

To craft a megalodon

Diego Conti, Federico A. Rossi and Romeo Segnan Dalmaso

January 11, 2024

This ancillary file contains the output of Algorithm 1 in dimensions 6 through 9. We restrict to surjective root matrix and the situation where (N5) defines $|\mathcal{A}|$ independent equations, i.e. A is uniquely determined from the data. The resulting solutions of

$$\text{Ric} = -\text{tr}((D^s)^2)\text{Id} - \frac{1}{2}[D, D^*] + (\text{tr } D)D^s, \quad \text{tr}(\text{ad } v \circ D^*) = 0, \quad v \in \mathfrak{g}, \quad (1)$$

are given in tables, one for each dimension. Each row of the table contains a Lie algebra \mathfrak{g} , a derivation D , and then the list of compatible metrics. The derivation D is expressed as a sum $v + \sum a_{ij}e^i \otimes e_j$, where v is a vector representing the diagonal derivation v^D . Since the nice basis is orthonormal, the metric is specified by giving the indices of the timelike vectors in the basis. Thus, for instance, 12 represents the metric $\text{diag}(-1, -1, 1, \dots, 1)$. The column \mathbf{S} in each table indicates the set of admissible signatures represented in this way.

A Dimension 6

Table A: Solutions of (1) obtained with Algorithm 1 with $n = 6$

Name Δ	\mathfrak{g}	D	\mathbf{S}
64321:1	$0, 0, \frac{4}{13}\sqrt{2}e^{12}, \frac{4}{13}\sqrt{3}e^{13}, \frac{4}{13}\sqrt{5}e^{14}, \frac{8}{13}e^{15}$	$(\frac{3}{13}, -\frac{5}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{4}{13}, \frac{7}{13})$ $+ \frac{4}{13}\sqrt{10}e^1 \otimes e_2$	{146, 2}
6431:1	$0, 0, \frac{9}{122}\sqrt{61}e^{12}, \frac{9}{61}\sqrt{2}e^{13}, \frac{9}{61}\sqrt{21}e^{23}, \frac{9}{122}\sqrt{61}e^{14}$	$(-\frac{27}{122}, \frac{99}{244}, \frac{45}{244}, -\frac{9}{244}, \frac{36}{61}, -\frac{63}{244})$ $+ \frac{9}{61}\sqrt{46}e^2 \otimes e_6$	{23, 46}
6321:1	$0, 0, 0, \frac{3}{38}\sqrt{19}e^{12}, \frac{6}{19}e^{14}, \frac{3}{38}\sqrt{19}e^{15}$	$(-\frac{3}{38}, \frac{21}{76}, -\frac{6}{19}, \frac{15}{76}, \frac{9}{76}, \frac{3}{76})$ $+ \frac{3}{19}\sqrt{7}e^2 \otimes e_6 + \frac{9}{19}e^1 \otimes e_3$	{125, 146}
6321:1	$0, 0, 0, \frac{12}{115}\sqrt{5}e^{12}, \frac{12}{115}\sqrt{15}e^{14}, \frac{3}{115}\sqrt{410}e^{15}$	$(\frac{3}{23}, -\frac{6}{23}, \frac{12}{23}, -\frac{3}{23}, 0, \frac{3}{23})$ $+ \frac{3}{115}\sqrt{430}e^3 \otimes e_6 + \frac{3}{23}\sqrt{22}e^1 \otimes e_2$	{135, 23}
6321:1	$0, 0, 0, \frac{4}{35}\sqrt{5}e^{12}, \frac{4}{35}\sqrt{15}e^{14}, \frac{8}{35}\sqrt{15}e^{15}$	$(-\frac{1}{7}, \frac{2}{7}, 1, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{4}{35}\sqrt{130}e^3 \otimes e_6$	{1246, 135, 23, 456}
6321:1	$0, 0, 0, \frac{3}{46}\sqrt{115}e^{12}, \frac{3}{23}\sqrt{10}e^{14}, \frac{3}{46}\sqrt{115}e^{15}$	$(-\frac{15}{46}, \frac{3}{4}, \frac{6}{23}, \frac{39}{92}, \frac{9}{92}, -\frac{21}{92})$ $+ \frac{3}{23}\sqrt{85}e^2 \otimes e_6$	{1235, 125, 1346, 146}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	g	D	S
6321:1	$0, 0, 0, \frac{8}{35}\sqrt{15}e^{12}, \frac{4}{35}\sqrt{15}e^{14}, \frac{4}{35}\sqrt{5}e^{15}$	$(-\frac{1}{7}, \frac{23}{35}, -\frac{17}{35}, \frac{18}{35}, \frac{13}{35}, \frac{8}{35})$ $+\frac{4}{35}\sqrt{130}e^2 \otimes e_3$	{1256, 134, 245, 36}
6321:1	$0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{2}{3}e^{14}, \frac{1}{3}\sqrt{3}e^{15}$	$(\frac{1}{6}, 0, -\frac{1}{2}, \frac{1}{6}, \frac{1}{3}, \frac{1}{2})$ $+e^1 \otimes e_3$	{125, 146, 23456, 3}
6321:1	$0, 0, 0, \frac{4}{183}\sqrt{114}e^{12}, \frac{4}{183}\sqrt{1159}e^{14}, \frac{4}{61}\sqrt{133}e^{15}$	$(\frac{65}{183}, -\frac{29}{61}, \frac{15}{61}, -\frac{22}{183}, \frac{43}{183}, \frac{36}{61})$ $+\frac{4}{183}\sqrt{2622}e^1 \otimes e_2$	{135, 15, 2, 23}
6321:2	$0, 0, 0, \frac{11}{106}\sqrt{74}e^{12}, \frac{33}{106}\sqrt{2}e^{14}, \frac{11}{106}\sqrt{5}e^{15} + \frac{11}{106}\sqrt{5}e^{23}$	$(-\frac{33}{212}, \frac{143}{212}, -\frac{99}{212}, \frac{55}{106}, \frac{77}{212}, \frac{11}{53})$ $+\frac{11}{106}\sqrt{158}e^2 \otimes e_3$	{134, 245}
6321:3	$0, 0, 0, \frac{34}{389}\sqrt{78}e^{12}, \frac{51}{389}\sqrt{6}e^{14}, \frac{17}{389}\sqrt{158}e^{15} + \frac{17}{389}\sqrt{330}e^{24}$	$(\frac{34}{389}, \frac{68}{389}, -\frac{221}{389}, \frac{102}{389}, \frac{136}{389}, \frac{170}{389})$ $+\frac{17}{389}\sqrt{610}e^2 \otimes e_3$	{13456, 35}
6321:3	$0, 0, 0, \frac{4}{13}\sqrt{3}e^{12}, \frac{4}{13}\sqrt{5}e^{14}, \frac{8}{13}e^{15} + \frac{4}{13}\sqrt{2}e^{24}$	$(\frac{1}{13}, \frac{2}{13}, -\frac{7}{13}, \frac{3}{13}, \frac{4}{13}, \frac{5}{13})$ $+\frac{4}{13}\sqrt{10}e^1 \otimes e_3$	{125, 23456}
632:1	$0, 0, 0, \frac{4}{183}\sqrt{1159}e^{12}, \frac{4}{61}\sqrt{133}e^{14}, \frac{4}{183}\sqrt{114}e^{24}$	$(\frac{59}{183}, -\frac{10}{183}, -\frac{31}{61}, \frac{49}{183}, \frac{36}{61}, \frac{13}{61})$ $+\frac{4}{183}\sqrt{2622}e^1 \otimes e_3$	{125, 14, 23456, 36}
632:1	$0, 0, 0, \frac{4}{35}\sqrt{15}e^{12}, \frac{8}{35}\sqrt{15}e^{14}, \frac{4}{35}\sqrt{5}e^{24}$	$(-\frac{6}{35}, \frac{1}{5}, 1, \frac{1}{35}, -\frac{1}{7}, \frac{8}{35})$ $+\frac{4}{35}\sqrt{130}e^3 \otimes e_5$	{125, 134, 2456, 36}
632:2	$0, 0, 0, \frac{68}{383}\sqrt{19}e^{12}, \frac{17}{383}\sqrt{302}e^{14}, \frac{17}{383}\sqrt{146}e^{13} + \frac{17}{383}\sqrt{6}e^{24}$	$(\frac{153}{383}, -\frac{68}{383}, -\frac{136}{383}, \frac{85}{383}, \frac{238}{383}, \frac{17}{383})$ $+\frac{68}{383}\sqrt{37}e^1 \otimes e_3$	{2345, 3}
632:2	$0, 0, 0, \frac{38}{371}\sqrt{3}e^{12}, \frac{38}{371}\sqrt{51}e^{14}, \frac{19}{371}\sqrt{210}e^{13} + \frac{76}{371}\sqrt{5}e^{24}$	$(-\frac{114}{371}, \frac{19}{53}, \frac{38}{53}, \frac{19}{371}, -\frac{95}{371}, \frac{152}{371})$ $+\frac{38}{371}\sqrt{142}e^3 \otimes e_5$	{156, 45}
631:1	$0, 0, 0, \frac{4}{53}\sqrt{105}e^{12}, \frac{20}{53}\sqrt{2}e^{13}, \frac{4}{53}\sqrt{105}e^{14}$	$(\frac{21}{53}, -\frac{9}{53}, -\frac{19}{53}, \frac{12}{53}, \frac{2}{53}, \frac{33}{53})$ $+\frac{4}{53}\sqrt{205}e^1 \otimes e_3$	{126, 14, 2346, 3}
631:1	$0, 0, 0, \frac{13}{419}\sqrt{282}e^{12}, \frac{26}{419}\sqrt{2}e^{13}, \frac{78}{419}\sqrt{5}e^{14}$	$(\frac{39}{419}, \frac{78}{419}, -\frac{130}{419}, \frac{117}{419}, -\frac{91}{419}, \frac{156}{419})$ $+\frac{260}{419}e^1 \otimes e_3 + \frac{39}{419}\sqrt{34}e^2 \otimes e_5$	{126, 2346}
631:1	$0, 0, 0, \frac{14}{139}\sqrt{3}e^{12}, \frac{7}{139}\sqrt{74}e^{13}, \frac{14}{139}\sqrt{17}e^{14}$	$(\frac{14}{139}, -\frac{35}{139}, \frac{42}{139}, -\frac{21}{139}, \frac{56}{139}, -\frac{7}{139})$ $+\frac{14}{139}\sqrt{30}e^1 \otimes e_2 + \frac{14}{139}\sqrt{30}e^3 \otimes e_6$	{156, 235}
631:1	$0, 0, 0, \frac{6}{19}e^{12}, \frac{3}{19}\sqrt{10}e^{13}, \frac{6}{19}e^{14}$	$(-\frac{6}{19}, \frac{9}{19}, \frac{6}{19}, \frac{3}{19}, 0, -\frac{3}{19})$ $+\frac{12}{19}e^2 \otimes e_5 + \frac{12}{19}e^3 \otimes e_6$	{246, 35}
631:2	$0, 0, 0, \frac{7}{134}\sqrt{78}e^{12}, \frac{7}{134}\sqrt{34}e^{13}, \frac{7}{67}\sqrt{15}e^{24}$	$(\frac{21}{268}, \frac{21}{134}, -\frac{77}{268}, \frac{63}{268}, -\frac{14}{67}, \frac{105}{268})$ $+\frac{21}{134}\sqrt{15}e^2 \otimes e_5 + \frac{7}{67}\sqrt{22}e^1 \otimes e_3$	{1456, 35}
631:2	$0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{2}{3}e^{24}$	$(-\frac{1}{4}, \frac{5}{12}, 0, \frac{1}{6}, -\frac{1}{4}, \frac{7}{12})$ $+e^2 \otimes e_5$	{1236, 1456, 24, 35}
631:2	$0, 0, 0, \frac{4}{183}\sqrt{114}e^{12}, \frac{4}{61}\sqrt{133}e^{13}, \frac{4}{183}\sqrt{1159}e^{24}$	$(-\frac{4}{61}, -\frac{10}{183}, \frac{40}{61}, -\frac{22}{183}, \frac{36}{61}, -\frac{32}{183})$ $+\frac{4}{183}\sqrt{2622}e^3 \otimes e_6$	{1234, 13, 26, 46}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	g	D	S
631:2	$0, 0, 0, \frac{1}{30}\sqrt{30}e^{12}, \frac{1}{10}\sqrt{10}e^{13}, \frac{1}{3}e^{24}$	$(-\frac{1}{4}, \frac{1}{6}, \frac{1}{4}, -\frac{1}{12}, 0, \frac{1}{12})$ $+\frac{1}{10}\sqrt{15}e^2 \otimes e_5 + \frac{1}{15}\sqrt{30}e^3 \otimes e_6$	{1456, 35}
631:2	$0, 0, 0, \frac{8}{35}\sqrt{15}e^{12}, \frac{4}{35}\sqrt{5}e^{13}, \frac{4}{35}\sqrt{15}e^{24}$	$(\frac{24}{35}, -\frac{6}{35}, -\frac{16}{35}, \frac{18}{35}, \frac{8}{35}, \frac{12}{35})$ $+\frac{4}{35}\sqrt{130}e^1 \otimes e_3$	{126, 146, 234, 3}
631:3	$0, 0, 0, \frac{9}{91}\sqrt{34}e^{12}, \frac{18}{91}\sqrt{10}e^{13}, \frac{18}{91}\sqrt{3}e^{14} + \frac{18}{91}\sqrt{10}e^{23}$	$(-\frac{9}{91}, \frac{54}{91}, -\frac{18}{91}, \frac{45}{91}, -\frac{27}{91}, \frac{36}{91})$ $+\frac{9}{91}\sqrt{138}e^2 \otimes e_5$	{123, 356}
63:1	$0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{3}{35}\sqrt{14}e^{23}$	$(\frac{6}{35}, \frac{6}{35}, -\frac{9}{35}, \frac{12}{35}, -\frac{3}{35}, -\frac{3}{35})$ $+\frac{3}{35}\sqrt{30}e^1 \otimes e_6 - \frac{3}{35}\sqrt{30}e^2 \otimes e_5$	{123, 145, 356}
63:1	$0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{3}{35}\sqrt{14}e^{23}$	$(\frac{6}{35}, \frac{6}{35}, -\frac{9}{35}, \frac{12}{35}, -\frac{3}{35}, -\frac{3}{35})$ $+\frac{3}{35}\sqrt{30}e^1 \otimes e_6 + \frac{3}{35}\sqrt{30}e^2 \otimes e_5$	{123, 145, 356}
63:1	$0, 0, 0, \frac{3}{5}e^{12}, \frac{3}{5}e^{13}, \frac{3}{5}e^{23}$	$(\frac{3}{5}, -\frac{3}{20}, -\frac{3}{20}, \frac{9}{20}, \frac{9}{20}, -\frac{3}{10})$ $+\frac{3}{10}\sqrt{15}e^1 \otimes e_6$	{123, 145, 246}
621:1	$0, 0, 0, 0, \frac{1}{3}\sqrt{5}e^{12}, \frac{1}{3}\sqrt{5}e^{15}$	$(\frac{1}{3}, -\frac{1}{12}, -\frac{1}{2}, \frac{1}{4}, \frac{1}{4}, \frac{7}{12})$ $+\frac{1}{2}\sqrt{5}e^1 \otimes e_3$	{1246, 126, 145, 15, 23456, 2356, 3, 34}
621:1	$0, 0, 0, 0, \frac{2}{57}\sqrt{138}e^{12}, \frac{1}{57}\sqrt{874}e^{15}$	$(\frac{5}{57}, -\frac{1}{19}, \frac{10}{19}, -\frac{6}{19}, \frac{2}{57}, \frac{7}{57})$ $+\frac{1}{19}\sqrt{138}e^1 \otimes e_4 + \frac{1}{57}\sqrt{966}e^3 \otimes e_6$	{126, 135, 2456, 34}
621:1	$0, 0, 0, 0, \frac{1}{57}\sqrt{874}e^{12}, \frac{2}{57}\sqrt{138}e^{15}$	$(\frac{5}{57}, \frac{11}{57}, -\frac{6}{19}, -\frac{4}{19}, \frac{16}{57}, \frac{7}{19})$ $+\frac{1}{19}\sqrt{138}e^1 \otimes e_3 + \frac{1}{57}\sqrt{966}e^2 \otimes e_4$	{126, 145, 2356, 34}
621:1	$0, 0, 0, 0, \frac{2}{69}\sqrt{237}e^{12}, \frac{1}{69}\sqrt{3634}e^{15}$	$(-\frac{11}{69}, \frac{4}{23}, 1, \frac{6}{23}, \frac{1}{69}, -\frac{10}{69})$ $+\frac{1}{69}\sqrt{8058}e^3 \otimes e_6$	{1246, 126, 1345, 135, 2456, 256, 3, 34}
621:1	$0, 0, 0, 0, \frac{1}{60}\sqrt{186}e^{12}, \frac{1}{30}\sqrt{310}e^{15}$	$(\frac{23}{120}, -\frac{13}{40}, \frac{23}{40}, \frac{3}{20}, -\frac{2}{15}, \frac{7}{120})$ $+\frac{1}{60}\sqrt{1581}e^1 \otimes e_2 + \frac{1}{60}\sqrt{1581}e^3 \otimes e_6$	{1345, 135, 2456, 256}
621:1	$0, 0, 0, 0, \frac{2}{69}\sqrt{237}e^{12}, \frac{1}{69}\sqrt{3634}e^{15}$	$(\frac{40}{69}, -\frac{13}{23}, \frac{6}{23}, \frac{6}{23}, \frac{1}{69}, \frac{41}{69})$ $+\frac{1}{69}\sqrt{8058}e^1 \otimes e_2$	{1345, 135, 15, 23456, 2356, 256}
621:1	$0, 0, 0, 0, \frac{4}{41}\sqrt{26}e^{12}, \frac{4}{41}\sqrt{26}e^{15}$	$(-\frac{9}{41}, \frac{16}{41}, \frac{24}{41}, -\frac{10}{41}, \frac{7}{41}, -\frac{2}{41})$ $+\frac{2}{41}\sqrt{221}e^2 \otimes e_4 + \frac{2}{41}\sqrt{221}e^3 \otimes e_6$	{126, 1345, 256, 34}
621:1	$0, 0, 0, 0, \frac{4}{217}\sqrt{237}e^{12}, \frac{2}{217}\sqrt{3634}e^{15}$	$(\frac{80}{217}, -\frac{78}{217}, \frac{115}{217}, -\frac{43}{217}, \frac{2}{217}, \frac{82}{217})$ $+\frac{158}{217}e^3 \otimes e_4 + \frac{2}{217}\sqrt{8058}e^1 \otimes e_2$	{135, 145, 2356, 2456}
621:1	$0, 0, 0, 0, \frac{1}{69}\sqrt{3634}e^{12}, \frac{2}{69}\sqrt{237}e^{15}$	$(-\frac{11}{69}, \frac{2}{3}, -\frac{11}{23}, \frac{6}{23}, \frac{35}{69}, \frac{8}{23})$ $+\frac{1}{69}\sqrt{8058}e^2 \otimes e_3$	{1246, 126, 1345, 135, 2456, 256, 3, 34}
621:1	$0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{2}e^{15}$	$(\frac{1}{11}, \frac{2}{11}, 1, -\frac{5}{11}, \frac{3}{11}, \frac{4}{11})$ $+\frac{16}{11}e^3 \otimes e_4$	{1236, 1246, 135, 145, 2356, 2456, 3, 4}
621:2	$0, 0, 0, 0, \frac{4}{157}\sqrt{1246}e^{12}, \frac{2}{157}\sqrt{979}e^{13} + \frac{2}{157}\sqrt{1513}e^{25}$	$(\frac{112}{157}, -\frac{33}{157}, -\frac{66}{157}, \frac{40}{157}, \frac{79}{157}, \frac{46}{157})$ $+\frac{6}{157}\sqrt{1157}e^1 \otimes e_3$	{2345, 235, 3, 34}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	g	D	S
621:2	$0, 0, 0, 0, \frac{4}{53}\sqrt{105}e^{12}, \frac{20}{53}\sqrt{2}e^{13} + \frac{4}{53}\sqrt{105}e^{25}$	$(\frac{1}{53}, \frac{11}{53}, \frac{22}{53}, -\frac{29}{53}, \frac{12}{53}, \frac{23}{53})$ $+ \frac{4}{53}\sqrt{205}e^2 \otimes e_4$	{1236, 13456, 235, 34}
621:2	$0, 0, 0, 0, \frac{13}{503}\sqrt{394}e^{12}, \frac{52}{503}\sqrt{11}e^{13} + \frac{52}{503}\sqrt{17}e^{25}$	$(\frac{143}{503}, -\frac{13}{503}, -\frac{26}{503}, -\frac{182}{503}, \frac{130}{503}, \frac{117}{503})$ $+ \frac{13}{503}\sqrt{366}e^1 \otimes e_3 + \frac{13}{503}\sqrt{502}e^2 \otimes e_4$	{235, 34}
621:2	$0, 0, 0, 0, \frac{1}{25}\sqrt{58}e^{12}, \frac{3}{25}\sqrt{58}e^{13} + \frac{1}{25}\sqrt{58}e^{25}$	$(-\frac{2}{25}, \frac{8}{25}, \frac{16}{25}, -\frac{13}{25}, \frac{6}{25}, \frac{14}{25})$ $+ \frac{1}{25}\sqrt{1102}e^3 \otimes e_4$	{12456, 146, 24, 45}
621:2	$0, 0, 0, 0, \frac{4}{13}\sqrt{2}e^{12}, \frac{2}{13}\sqrt{5}e^{13} + \frac{6}{13}e^{25}$	$(\frac{4}{13}, -\frac{2}{13}, -\frac{4}{13}, \frac{8}{13}, \frac{2}{13}, 0)$ $+ \frac{2}{13}\sqrt{23}e^4 \otimes e_6 + \frac{4}{13}\sqrt{5}e^1 \otimes e_3$	{126, 156}
621:3	$0, 0, 0, 0, \frac{4}{35}\sqrt{15}e^{12}, \frac{8}{35}\sqrt{15}e^{15} + \frac{4}{35}\sqrt{5}e^{34}$	$(\frac{4}{7}, -\frac{4}{7}, \frac{2}{7}, \frac{2}{7}, 0, \frac{4}{7})$ $+ \frac{4}{35}\sqrt{130}e^1 \otimes e_2$	{135, 23456, 256}
621:3	$0, 0, 0, 0, \frac{4}{55}\sqrt{15}e^{12}, \frac{8}{55}\sqrt{15}e^{15} + \frac{4}{55}\sqrt{5}e^{34}$	$(\frac{4}{11}, -\frac{4}{11}, \frac{6}{11}, -\frac{2}{11}, 0, \frac{4}{11})$ $+ \frac{4}{55}\sqrt{130}e^1 \otimes e_2 + \frac{8}{11}e^3 \otimes e_4$	{135, 145}
621:3	$0, 0, 0, 0, \frac{4}{43}\sqrt{31}e^{12}, \frac{2}{43}\sqrt{93}e^{15} + \frac{2}{43}\sqrt{93}e^{34}$	$(\frac{5}{43}, \frac{8}{43}, \frac{40}{43}, -\frac{22}{43}, \frac{13}{43}, \frac{18}{43})$ $+ \frac{62}{43}e^3 \otimes e_4$	{1236, 1246, 2356, 2456}
62:1	$0, 0, 0, 0, \frac{4}{55}\sqrt{38}e^{12}, \frac{4}{55}\sqrt{38}e^{13}$	$(\frac{16}{55}, -\frac{2}{5}, \frac{1}{55}, \frac{32}{55}, -\frac{6}{55}, \frac{17}{55})$ $+ \frac{2}{55}\sqrt{437}e^1 \otimes e_2 + \frac{2}{55}\sqrt{437}e^4 \otimes e_5$	{135, 156, 2356, 25}
62:1	$0, 0, 0, 0, \frac{1}{61}\sqrt{2982}e^{12}, \frac{2}{61}\sqrt{71}e^{13}$	$(-\frac{4}{61}, \frac{40}{61}, \frac{17}{61}, -\frac{31}{61}, \frac{36}{61}, \frac{13}{61})$ $+ \frac{2}{61}\sqrt{1633}e^2 \otimes e_4$	{12, 1236, 13456, 145, 235, 256, 34, 46}
62:1	$0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}\sqrt{2}e^{13}$	$(-\frac{1}{4}, \frac{3}{4}, 0, \frac{1}{4}, \frac{1}{2}, -\frac{1}{4})$ $+ \frac{1}{2}\sqrt{6}e^2 \otimes e_6$	{123, 1234, 1456, 156, 245, 25, 346, 36}
62:1	$0, 0, 0, 0, \frac{1}{10}\sqrt{30}e^{12}, \frac{1}{10}\sqrt{10}e^{13}$	$(\frac{3}{20}, \frac{3}{10}, -\frac{7}{20}, \frac{3}{20}, \frac{9}{20}, -\frac{1}{5})$ $+ \frac{1}{5}\sqrt{10}e^1 \otimes e_3 + \frac{3}{10}\sqrt{5}e^2 \otimes e_6$	{1456, 156, 346, 36}
62:1	$0, 0, 0, 0, \frac{1}{14}\sqrt{35}e^{12}, \frac{1}{14}\sqrt{35}e^{13}$	$(-\frac{5}{14}, \frac{9}{28}, \frac{9}{28}, \frac{1}{7}, -\frac{1}{28}, -\frac{1}{28})$ $+ \frac{1}{7}\sqrt{15}e^2 \otimes e_6 - \frac{1}{7}\sqrt{15}e^3 \otimes e_5$	{123, 1234, 1456, 156, 245, 25}
62:1	$0, 0, 0, 0, \frac{1}{14}\sqrt{35}e^{12}, \frac{1}{14}\sqrt{35}e^{13}$	$(-\frac{5}{14}, \frac{9}{28}, \frac{9}{28}, \frac{1}{7}, -\frac{1}{28}, -\frac{1}{28})$ $+ \frac{1}{7}\sqrt{15}e^2 \otimes e_6 + \frac{1}{7}\sqrt{15}e^3 \otimes e_5$	{123, 1234, 1456, 156, 245, 25}
62:1	$0, 0, 0, 0, \frac{3}{53}\sqrt{114}e^{12}, \frac{6}{53}\sqrt{6}e^{13}$	$(\frac{15}{53}, \frac{11}{53}, -\frac{12}{53}, -\frac{16}{53}, \frac{26}{53}, \frac{3}{53})$ $+ \frac{3}{53}\sqrt{138}e^1 \otimes e_3 + \frac{3}{53}\sqrt{138}e^2 \otimes e_4$	{12, 145, 235, 34}
62:1	$0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}\sqrt{2}e^{13}$	$(\frac{1}{2}, 0, 0, -\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$ $+ \frac{1}{2}\sqrt{6}e^1 \otimes e_4$	{123, 126, 156, 23456, 245, 4}
62:1	$0, 0, 0, 0, \frac{2}{61}\sqrt{71}e^{12}, \frac{1}{61}\sqrt{2982}e^{13}$	$(\frac{42}{61}, -\frac{29}{61}, -\frac{6}{61}, \frac{15}{61}, \frac{13}{61}, \frac{36}{61})$ $+ \frac{2}{61}\sqrt{1633}e^1 \otimes e_2$	{13, 134, 146, 16, 2, 2346, 236, 24}
62:1	$0, 0, 0, 0, \frac{1}{10}\sqrt{30}e^{12}, \frac{1}{10}\sqrt{10}e^{13}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{2}, -\frac{1}{4}, 0, \frac{1}{4})$ $+ \frac{1}{5}\sqrt{10}e^2 \otimes e_4 + \frac{3}{10}\sqrt{5}e^3 \otimes e_5$	{123, 1456, 25, 346}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	g	D	S
62:1	$0, 0, 0, 0, \frac{1}{10}\sqrt{30}e^{12}, \frac{1}{10}\sqrt{10}e^{13}$	$(-\frac{1}{4}, \frac{3}{10}, \frac{1}{20}, \frac{11}{20}, \frac{1}{20}, -\frac{1}{5})$ $+\frac{1}{5}\sqrt{10}e^4 \otimes e_5 + \frac{3}{10}\sqrt{5}e^2 \otimes e_6$	{1234, 156, 25, 346}
62:1	$0, 0, 0, 0, \frac{6}{53}\sqrt{6}e^{12}, \frac{3}{53}\sqrt{114}e^{13}$	$(\frac{15}{53}, -\frac{12}{53}, -\frac{12}{53}, \frac{30}{53}, \frac{3}{53}, \frac{3}{53})$ $+\frac{3}{53}\sqrt{138}e^1 \otimes e_2 + \frac{3}{53}\sqrt{138}e^4 \otimes e_6$	{134, 16, 236, 24}
62:1	$0, 0, 0, 0, \frac{1}{14}\sqrt{35}e^{12}, \frac{1}{14}\sqrt{35}e^{13}$	$(\frac{1}{14}, \frac{9}{28}, -\frac{3}{28}, -\frac{2}{7}, \frac{11}{28}, -\frac{1}{28})$ $+\frac{1}{7}\sqrt{15}e^1 \otimes e_4 + \frac{1}{7}\sqrt{15}e^2 \otimes e_6$	{123, 156, 245, 346}
62:1	$0, 0, 0, 0, \frac{1}{61}\sqrt{2982}e^{12}, \frac{2}{61}\sqrt{71}e^{13}$	$(-\frac{4}{61}, -\frac{6}{61}, \frac{17}{61}, 1, -\frac{10}{61}, \frac{13}{61})$ $+\frac{2}{61}\sqrt{1633}e^4 \otimes e_5$	{12346, 124, 1356, 15, 235, 256, 34, 46}
62:2	$0, 0, 0, 0, \frac{4}{19}\sqrt{2}e^{12}, \frac{4}{19}\sqrt{2}e^{34}$	$(\frac{10}{19}, -\frac{6}{19}, \frac{10}{19}, -\frac{6}{19}, \frac{4}{19}, \frac{4}{19})$ $+\frac{16}{19}e^1 \otimes e_2 + \frac{16}{19}e^3 \otimes e_4$	{1356, 1456, 2456}
62:2	$0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{2}e^{34}$	$(\frac{10}{11}, -\frac{6}{11}, \frac{2}{11}, \frac{2}{11}, \frac{4}{11}, \frac{4}{11})$ $+\frac{16}{11}e^1 \otimes e_2$	{1345, 1356, 15, 2345, 2356, 25}
62:2	$0, 0, 0, 0, \frac{2}{21}\sqrt{14}e^{12}, \frac{2}{21}\sqrt{14}e^{34}$	$(\frac{5}{21}, -\frac{4}{21}, \frac{5}{21}, -\frac{4}{21}, \frac{1}{21}, \frac{1}{21})$ $+\frac{2}{7}\sqrt{2}e^1 \otimes e_6 + \frac{2}{7}\sqrt{2}e^3 \otimes e_5$	{1234, 15, 2456}
62:2	$0, 0, 0, 0, \frac{1}{3}\sqrt{5}e^{12}, \frac{1}{3}\sqrt{5}e^{34}$	$(\frac{2}{3}, -\frac{1}{12}, -\frac{1}{12}, -\frac{1}{12}, \frac{7}{12}, -\frac{1}{6})$ $+\frac{1}{2}\sqrt{5}e^1 \otimes e_6$	{12, 1234, 1345, 15, 2356, 36}
62:2	$0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{4}{17}\sqrt{5}e^{34}$	$(\frac{4}{17}, -\frac{6}{17}, \frac{8}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{7}{17})$ $+\frac{10}{17}e^1 \otimes e_2 + \frac{6}{17}\sqrt{5}e^3 \otimes e_5$	{1456, 15, 2456, 25}
62:3	$0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{4}e^{13} + \frac{1}{4}e^{24}$	$(\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, \frac{1}{2}, 0)$ $+\frac{1}{4}\sqrt{7}e^1 \otimes e_3 - \frac{1}{4}\sqrt{7}e^2 \otimes e_4$	{12, 145, 34}
62:3	$0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{4}e^{13} + \frac{1}{4}e^{24}$	$(\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, \frac{1}{2}, 0)$ $+\frac{1}{4}\sqrt{7}e^1 \otimes e_3 + \frac{1}{4}\sqrt{7}e^2 \otimes e_4$	{12, 145, 34}
62:3	$0, 0, 0, 0, \frac{1}{37}\sqrt{1118}e^{12}, \frac{1}{37}\sqrt{86}e^{13} + \frac{1}{37}\sqrt{86}e^{24}$	$(\frac{25}{37}, -\frac{3}{37}, -\frac{18}{37}, \frac{10}{37}, \frac{22}{37}, \frac{7}{37})$ $+\frac{2}{37}\sqrt{602}e^1 \otimes e_3$	{12, 145, 235, 34}
62:3	$0, 0, 0, 0, \frac{3}{95}\sqrt{310}e^{12}, \frac{6}{19}e^{13} + \frac{6}{95}\sqrt{30}e^{24}$	$(\frac{6}{19}, -\frac{6}{19}, -\frac{3}{19}, \frac{9}{19}, 0, \frac{3}{19})$ $+\frac{6}{95}\sqrt{110}e^4 \otimes e_5 + \frac{6}{95}\sqrt{95}e^1 \otimes e_3$	{124, 15}
62:3	$0, 0, 0, 0, \frac{1}{38}\sqrt{777}e^{12}, \frac{1}{38}\sqrt{777}e^{13} + \frac{1}{19}\sqrt{74}e^{24}$	$(-\frac{6}{19}, \frac{5}{76}, \frac{55}{76}, \frac{13}{38}, -\frac{1}{4}, \frac{31}{76})$ $+\frac{1}{38}\sqrt{2146}e^3 \otimes e_5$	{123, 156, 25, 36}
61:1	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{7}e^{12}$	$(-\frac{1}{12}, -\frac{1}{12}, 1, \frac{1}{4}, \frac{1}{4}, -\frac{1}{6})$ $+\frac{1}{2}\sqrt{7}e^3 \otimes e_6$	{123, 1234, 12345, 1456, 146, 16, 3, 34, 345}
61:1	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{34}e^{12}$	$(\frac{4}{23}, \frac{4}{23}, 1, -\frac{11}{23}, \frac{6}{23}, \frac{8}{23})$ $+\frac{34}{23}e^3 \otimes e_4$	{123, 1235, 124, 1245, 1356, 136, 1456, 146, 3, 35, 4, 45}
61:1	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{34}e^{12}$	$(\frac{21}{40}, -\frac{13}{40}, \frac{23}{40}, -\frac{11}{40}, \frac{3}{20}, \frac{1}{5})$ $+\frac{17}{20}e^1 \otimes e_2 + \frac{17}{20}e^3 \otimes e_4$	{1356, 136, 1456, 146, 2356, 236, 2456, 246}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	g	D	S
61:1	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{7}e^{12}$	$(\frac{2}{3}, -\frac{1}{12}, -\frac{1}{2}, \frac{1}{4}, \frac{1}{4}, \frac{7}{12})$ $+\frac{1}{2}\sqrt{7}e^1 \otimes e_3$	{12, 124, 1245, 1456, 146, 16, 23456, 2346, 236, 3, 34, 345}
61:1	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{154}e^{12}$	$(\frac{5}{21}, \frac{5}{21}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{10}{21})$ $+\frac{1}{7}\sqrt{22}e^1 \otimes e_3 + \frac{1}{7}\sqrt{22}e^2 \otimes e_4$	{12, 125, 1456, 146, 34, 345}
61:1	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{154}e^{12}$	$(\frac{5}{21}, -\frac{4}{21}, \frac{4}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{21})$ $+\frac{1}{7}\sqrt{22}e^1 \otimes e_4 + \frac{1}{7}\sqrt{22}e^3 \otimes e_6$	{123, 1235, 156, 16, 2456, 246, 34, 345}
61:1	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{7}e^{12}$	$(\frac{8}{19}, -\frac{1}{19}, \frac{10}{19}, -\frac{6}{19}, -\frac{4}{19}, \frac{7}{19})$ $+\frac{14}{19}e^3 \otimes e_5 + \frac{6}{19}\sqrt{7}e^1 \otimes e_4$	{123, 125, 136, 156, 2346, 2456, 34, 45}
61:1	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{34}e^{12}$	$(\frac{21}{23}, -\frac{13}{23}, \frac{6}{23}, \frac{6}{23}, \frac{6}{23}, \frac{8}{23})$ $+\frac{34}{23}e^1 \otimes e_2$	{13456, 1346, 136, 16, 23456, 2346, 236, 26}
61:1	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{7}e^{12}$	$(\frac{3}{13}, -\frac{4}{13}, \frac{5}{13}, -\frac{2}{13}, \frac{6}{13}, -\frac{1}{13})$ $+\frac{3}{13}\sqrt{7}e^5 \otimes e_6 + \frac{7}{13}e^1 \otimes e_2 + \frac{7}{13}e^3 \otimes e_4$	{136, 146, 236, 246}
61:1	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12}$	$(\frac{1}{15}, \frac{1}{15}, -\frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{2}{15})$ $+\frac{2}{5}e^1 \otimes e_3 + \frac{2}{5}e^2 \otimes e_4 + \frac{2}{5}e^5 \otimes e_6$	{125, 146, 345}
61:1	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{7}e^{12}$	$(\frac{6}{19}, -\frac{8}{19}, \frac{12}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+\frac{14}{19}e^1 \otimes e_2 + \frac{6}{19}\sqrt{7}e^3 \otimes e_6$	{1456, 146, 16, 2456, 246, 26}
61:1	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{7}e^{12}$	$(-\frac{1}{19}, -\frac{1}{19}, \frac{10}{19}, \frac{12}{19}, -\frac{4}{19}, -\frac{2}{19})$ $+\frac{14}{19}e^3 \otimes e_5 + \frac{6}{19}\sqrt{7}e^4 \otimes e_6$	{1234, 1245, 136, 156, 34, 45}
61:2	$0, 0, 0, 0, 0, \frac{4}{193}\sqrt{71}e^{12} + \frac{2}{193}\sqrt{2982}e^{34}$	$(\frac{105}{193}, -\frac{37}{193}, \frac{80}{193}, -\frac{12}{193}, -\frac{62}{193}, \frac{68}{193})$ $+\frac{142}{193}e^1 \otimes e_2 + \frac{4}{193}\sqrt{1633}e^3 \otimes e_5$	{134, 15, 234, 25}
61:2	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{2982}e^{12} + \frac{2}{61}\sqrt{71}e^{34}$	$(\frac{40}{61}, -\frac{6}{61}, \frac{17}{61}, \frac{17}{61}, -\frac{31}{61}, \frac{34}{61})$ $+\frac{2}{61}\sqrt{1633}e^1 \otimes e_5$	{123, 1346, 16, 23456, 256, 35}
61:2	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{11}e^{12} + \frac{2}{15}\sqrt{11}e^{34}$	$(\frac{14}{15}, -\frac{8}{15}, \frac{1}{5}, \frac{1}{5}, \frac{4}{15}, \frac{2}{5})$ $+\frac{22}{15}e^1 \otimes e_2$	{1356, 136, 2356, 236}
61:2	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12} + \frac{1}{4}\sqrt{2}e^{34}$	$(\frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, \frac{1}{2}, 0)$ $+\frac{1}{2}e^1 \otimes e_2 + \frac{1}{2}e^3 \otimes e_4 + \frac{1}{4}\sqrt{6}e^5 \otimes e_6$	{136, 146, 246}
61:2	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12} + \frac{1}{4}\sqrt{2}e^{34}$	$(\frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, \frac{1}{2}, 0)$ $+\frac{1}{2}e^1 \otimes e_2 - \frac{1}{2}e^3 \otimes e_4 + \frac{1}{4}\sqrt{6}e^5 \otimes e_6$	{136, 146, 246}
61:2	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12} + \frac{1}{3}\sqrt{2}e^{34}$	$(\frac{1}{3}, -\frac{1}{3}, 0, 0, \frac{2}{3}, 0)$ $+\frac{1}{3}\sqrt{6}e^5 \otimes e_6 + \frac{2}{3}e^1 \otimes e_2$	{136, 236}
61:2	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{11}e^{12} + \frac{1}{13}\sqrt{11}e^{34}$	$(\frac{7}{13}, -\frac{4}{13}, \frac{7}{13}, -\frac{4}{13}, \frac{2}{13}, \frac{3}{13})$ $+\frac{11}{13}e^1 \otimes e_2 + \frac{11}{13}e^3 \otimes e_4$	{1356, 136, 1456, 146, 2456, 246}
61:2	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{11}e^{12} + \frac{1}{13}\sqrt{11}e^{34}$	$(\frac{7}{13}, -\frac{4}{13}, \frac{7}{13}, -\frac{4}{13}, \frac{2}{13}, \frac{3}{13})$ $+\frac{11}{13}e^1 \otimes e_2 - \frac{11}{13}e^3 \otimes e_4$	{1356, 136, 1456, 146, 2456, 246}

Table A – Continued to next page

Table A – Continued from previous page

Name Δ	\mathfrak{g}	D	S
61:2	$0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12} + \frac{1}{2}\sqrt{2}e^{34}$	$(0, 0, 0, 0, 1, 0)$ $+ \frac{1}{2}\sqrt{6}e^5 \otimes e_6$	{12345, 125, 136, 5}
6:1	$0, 0, 0, 0, 0, 0$	$(1, -\frac{1}{2}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4})$ $+ \frac{3}{2}e^1 \otimes e_2$	{1, 13, 134, 1345, 13456, 2, 23, 234, 2345, 23456}
6:1	$0, 0, 0, 0, 0, 0$	$(\frac{4}{7}, \frac{4}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7})$ $+ \frac{6}{7}e^1 \otimes e_3 + \frac{6}{7}e^2 \otimes e_4$	{12, 125, 1256, 14, 145, 1456, 34, 345, 3456}
6:1	$0, 0, 0, 0, 0, 0$	$(\frac{2}{5}, \frac{2}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, -\frac{1}{5})$ $+ \frac{3}{5}e^1 \otimes e_3 + \frac{3}{5}e^2 \otimes e_4 + \frac{3}{5}e^5 \otimes e_6$	{125, 126, 146, 346}

End of Table A

B Dimension 7

Table B: Solutions of (1) obtained with Algorithm 1 with $n = 7$

Name Δ	\mathfrak{g}	D	S
754321:1	$0, 0, \frac{55}{236}\sqrt{5}e^{12}, \frac{33}{236}\sqrt{6}e^{13}, \frac{11}{118}\sqrt{39}e^{14}, \frac{11}{236}\sqrt{181}e^{15}, \frac{11}{236}\sqrt{129}e^{16}$	$(\frac{77}{472}, -\frac{165}{472}, -\frac{11}{59}, -\frac{11}{472}, \frac{33}{236}, \frac{143}{472}, \frac{55}{118})$ $+ \frac{11}{236}\sqrt{381}e^1 \otimes e_2$	{146, 2}
754321:1	$0, 0, \frac{10}{49}\sqrt{14}e^{12}, \frac{10}{49}e^{13}, \frac{10}{49}\sqrt{6}e^{14}, \frac{10}{49}e^{15}, \frac{10}{49}\sqrt{14}e^{16}$	$(-\frac{10}{49}, \frac{5}{7}, \frac{25}{49}, \frac{15}{49}, \frac{5}{49}, -\frac{5}{49}, -\frac{15}{49})$ $+ \frac{10}{49}\sqrt{39}e^2 \otimes e_7$	{235, 467}
7542:1	$0, 0, \frac{9}{161}\sqrt{46}e^{12}, \frac{36}{161}\sqrt{7}e^{13}, \frac{9}{161}\sqrt{14}e^{23}, \frac{18}{161}\sqrt{23}e^{14}, \frac{18}{161}\sqrt{23}e^{25}$	$(\frac{36}{161}, -\frac{27}{161}, \frac{9}{161}, \frac{45}{161}, -\frac{18}{161}, \frac{81}{161}, -\frac{45}{161})$ $+ \frac{54}{161}\sqrt{7}e^1 \otimes e_7$	{136, 57}
74321:1	$0, 0, 0, \frac{16}{33}e^{12}, \frac{8}{33}\sqrt{6}e^{14}, \frac{8}{33}\sqrt{6}e^{15}, \frac{16}{33}e^{16}$	$(\frac{1}{11}, \frac{4}{99}, -\frac{5}{9}, \frac{13}{99}, \frac{2}{9}, \frac{31}{99}, \frac{40}{99})$ $+ \frac{8}{99}\sqrt{154}e^1 \otimes e_3$	{1257, 146, 234567, 3}
74321:1	$0, 0, 0, \frac{4}{147}\sqrt{1218}e^{12}, \frac{2}{49}\sqrt{145}e^{14}, \frac{4}{147}\sqrt{174}e^{15}, \frac{2}{147}\sqrt{1131}e^{16}$	$(-\frac{6}{49}, \frac{13}{21}, -\frac{83}{147}, \frac{73}{147}, \frac{55}{147}, \frac{37}{147}, \frac{19}{147})$ $+ \frac{2}{147}\sqrt{10005}e^2 \otimes e_3$	{12567, 134, 2457, 36}
74321:1	$0, 0, 0, \frac{2}{147}\sqrt{1131}e^{12}, \frac{4}{147}\sqrt{174}e^{14}, \frac{2}{49}\sqrt{145}e^{15}, \frac{4}{147}\sqrt{1218}e^{16}$	$(-\frac{6}{49}, \frac{15}{49}, 1, \frac{9}{49}, \frac{3}{49}, -\frac{3}{49}, -\frac{9}{49})$ $+ \frac{2}{147}\sqrt{10005}e^3 \otimes e_7$	{12457, 136, 2567, 34}
74321:1	$0, 0, 0, \frac{35}{149}\sqrt{2}e^{12}, \frac{7}{149}\sqrt{30}e^{14}, \frac{7}{149}\sqrt{82}e^{15}, \frac{7}{149}\sqrt{106}e^{16}$	$(\frac{14}{149}, -\frac{35}{149}, \frac{70}{149}, -\frac{21}{149}, -\frac{7}{149}, \frac{7}{149}, \frac{21}{149})$ $+ \frac{7}{149}\sqrt{102}e^3 \otimes e_7 + \frac{7}{149}\sqrt{158}e^1 \otimes e_2$	{157, 23}
74321:1	$0, 0, 0, \frac{52}{157}\sqrt{2}e^{12}, \frac{24}{157}\sqrt{13}e^{14}, \frac{4}{157}\sqrt{793}e^{15}, \frac{28}{157}\sqrt{13}e^{16}$	$(\frac{37}{157}, -\frac{67}{157}, \frac{32}{157}, -\frac{30}{157}, \frac{7}{157}, \frac{44}{157}, \frac{81}{157})$ $+ \frac{20}{157}\sqrt{65}e^1 \otimes e_2$	{1357, 157, 2, 23}
74321:2	$0, 0, 0, \frac{315}{1037}\sqrt{10}e^{12}, \frac{70}{1037}\sqrt{51}e^{14}, \frac{35}{1037}\sqrt{122}e^{15}, \frac{70}{1037}\sqrt{42}e^{16} + \frac{35}{1037}\sqrt{66}e^{23}$	$(-\frac{140}{1037}, \frac{665}{1037}, -\frac{560}{1037}, \frac{525}{1037}, \frac{385}{1037}, \frac{245}{1037}, \frac{105}{1037})$ $+ \frac{35}{1037}\sqrt{1630}e^2 \otimes e_3$	{134, 36}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
74321:3	$0, 0, 0, \frac{2}{33}\sqrt{33}e^{12}, \frac{2}{33}\sqrt{66}e^{14}, \frac{1}{11}\sqrt{22}e^{15}, \frac{2}{33}\sqrt{165}e^{16} + \frac{1}{11}\sqrt{66}e^{24}$	$(0, 0, 1, 0, 0, 0, 0)$ $+ \frac{2}{33}\sqrt{429}e^3 \otimes e_7$	{136, 2567}
74321:3	$0, 0, 0, \frac{540}{1169}e^{12}, \frac{54}{1169}\sqrt{173}e^{14}, \frac{27}{1169}\sqrt{646}e^{15}, \frac{54}{1169}\sqrt{123}e^{16} + \frac{27}{1169}\sqrt{230}e^{24}$	$(\frac{54}{1169}, \frac{162}{1169}, -\frac{675}{1169}, \frac{216}{1169}, \frac{270}{1169}, \frac{324}{1169}, \frac{54}{167})$ $+ \frac{54}{1169}\sqrt{461}e^1 \otimes e_3$	{146, 234567}
7431:1	$0, 0, 0, \frac{1}{46}\sqrt{759}e^{12}, \frac{1}{23}\sqrt{33}e^{14}, \frac{2}{23}\sqrt{66}e^{24}, \frac{1}{46}\sqrt{759}e^{15}$	$(-\frac{11}{46}, \frac{37}{92}, \frac{5}{23}, \frac{15}{92}, -\frac{7}{92}, \frac{13}{23}, -\frac{29}{92})$ $+ \frac{3}{23}\sqrt{66}e^2 \otimes e_7$	{234, 24, 357, 57}
7431:1	$0, 0, 0, \frac{1}{46}\sqrt{759}e^{12}, \frac{2}{23}\sqrt{66}e^{14}, \frac{1}{23}\sqrt{33}e^{24}, \frac{1}{46}\sqrt{759}e^{15}$	$(\frac{7}{46}, \frac{1}{92}, -\frac{13}{23}, \frac{15}{92}, \frac{29}{92}, \frac{4}{23}, \frac{43}{92})$ $+ \frac{3}{23}\sqrt{66}e^1 \otimes e_3$	{125, 147, 234567, 36}
7431:1	$0, 0, 0, \frac{1}{26}\sqrt{62}e^{12}, \frac{1}{26}\sqrt{93}e^{14}, \frac{1}{26}\sqrt{93}e^{24}, \frac{3}{26}\sqrt{62}e^{15}$	$(-\frac{7}{52}, \frac{11}{52}, 1, \frac{1}{13}, -\frac{3}{52}, \frac{15}{52}, -\frac{5}{26})$ $+ \frac{1}{13}\sqrt{310}e^3 \otimes e_7$	{1247, 135, 236, 4567}
7431:1	$0, 0, 0, \frac{1}{26}\sqrt{93}e^{12}, \frac{1}{26}\sqrt{62}e^{14}, \frac{3}{26}\sqrt{62}e^{24}, \frac{1}{26}\sqrt{93}e^{15}$	$(\frac{2}{13}, -\frac{9}{52}, 1, -\frac{1}{52}, \frac{7}{52}, -\frac{5}{26}, \frac{15}{52})$ $+ \frac{1}{13}\sqrt{310}e^3 \otimes e_6$	{1267, 1456, 234, 357}
7431:1	$0, 0, 0, \frac{1}{33}\sqrt{667}e^{12}, \frac{1}{33}\sqrt{87}e^{14}, \frac{1}{33}\sqrt{667}e^{24}, \frac{1}{33}\sqrt{87}e^{15}$	$(-\frac{1}{22}, \frac{10}{33}, -\frac{19}{33}, \frac{17}{66}, \frac{7}{33}, \frac{37}{66}, \frac{1}{6})$ $+ \frac{2}{33}\sqrt{377}e^2 \otimes e_3$	{126, 134567, 247, 35}
7431:1	$0, 0, 0, \frac{24}{419}\sqrt{34}e^{12}, \frac{12}{419}\sqrt{62}e^{14}, \frac{120}{419}\sqrt{3}e^{24}, \frac{24}{419}\sqrt{34}e^{15}$	$(-\frac{48}{419}, \frac{54}{419}, \frac{204}{419}, \frac{6}{419}, -\frac{42}{419}, \frac{60}{419}, -\frac{90}{419})$ $+ \frac{12}{419}\sqrt{430}e^2 \otimes e_7 + \frac{84}{419}\sqrt{6}e^3 \otimes e_6$	{234, 357}
7431:1	$0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{3}e^{14}, \frac{1}{7}\sqrt{3}e^{24}, \frac{1}{14}\sqrt{21}e^{15}$	$(-\frac{1}{14}, \frac{5}{28}, -\frac{2}{7}, \frac{3}{28}, \frac{1}{28}, \frac{2}{7}, -\frac{1}{28})$ $+ \frac{3}{7}e^1 \otimes e_3 + \frac{3}{7}e^2 \otimes e_7$	{1256, 1467}
7431:2	$0, 0, 0, \frac{16}{251}\sqrt{62}e^{12}, \frac{32}{251}\sqrt{3}e^{14}, \frac{80}{251}\sqrt{6}e^{13} + \frac{32}{251}\sqrt{3}e^{24}, \frac{16}{251}\sqrt{138}e^{15}$	$(-\frac{56}{251}, \frac{88}{251}, \frac{176}{251}, \frac{32}{251}, -\frac{24}{251}, \frac{120}{251}, -\frac{80}{251})$ $+ \frac{320}{251}e^3 \otimes e_7$	{167, 257}
7431:2	$0, 0, 0, \frac{4}{89}\sqrt{174}e^{12}, \frac{8}{89}\sqrt{3}e^{14}, \frac{36}{89}\sqrt{2}e^{13} + \frac{8}{89}\sqrt{57}e^{24}, \frac{4}{89}\sqrt{174}e^{15}$	$(-\frac{16}{89}, \frac{22}{89}, \frac{44}{89}, \frac{6}{89}, -\frac{10}{89}, \frac{28}{89}, -\frac{26}{89})$ $+ \frac{48}{89}\sqrt{3}e^2 \otimes e_7$	{12356, 13467}
7431:2	$0, 0, 0, \frac{4}{89}\sqrt{174}e^{12}, \frac{8}{89}\sqrt{57}e^{14}, \frac{36}{89}\sqrt{2}e^{13} + \frac{8}{89}\sqrt{3}e^{24}, \frac{4}{89}\sqrt{174}e^{15}$	$(\frac{20}{89}, -\frac{14}{89}, -\frac{28}{89}, \frac{6}{89}, \frac{26}{89}, -\frac{8}{89}, \frac{46}{89})$ $+ \frac{48}{89}\sqrt{3}e^1 \otimes e_3$	{23457, 3}
7431:7	$0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, -\frac{1}{3}e^{14}, \frac{1}{3}e^{24}, \frac{1}{3}\sqrt{5}e^{15} + \frac{1}{3}\sqrt{5}e^{26}$	$(0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{14}e^3 \otimes e_7$	{1247, 135, 4567, 1247, 135, 4567}
7431:7	$0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{1}{3}e^{14}, \frac{1}{3}e^{24}, \frac{1}{3}\sqrt{5}e^{15} + \frac{1}{3}\sqrt{5}e^{26}$	$(0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{14}e^3 \otimes e_7$	{1247, 135, 4567, 1247, 135, 4567}
7431:7	$0, 0, 0, \frac{30}{329}\sqrt{46}e^{12}, -\frac{15}{329}\sqrt{230}e^{14}, \frac{60}{329}\sqrt{2}e^{24}, \frac{30}{329}\sqrt{46}e^{15} + \frac{15}{329}\sqrt{78}e^{26}$	$(\frac{30}{329}, \frac{30}{329}, -\frac{195}{329}, \frac{60}{329}, \frac{90}{329}, \frac{90}{329}, \frac{120}{329})$ $+ \frac{30}{329}\sqrt{131}e^1 \otimes e_3$	{125, 147, 234567, 36, 125, 147, 234567, 36}
7431:7	$0, 0, 0, \frac{30}{329}\sqrt{46}e^{12}, \frac{15}{329}\sqrt{230}e^{14}, \frac{60}{329}\sqrt{2}e^{24}, \frac{30}{329}\sqrt{46}e^{15} + \frac{15}{329}\sqrt{78}e^{26}$	$(\frac{30}{329}, \frac{30}{329}, -\frac{195}{329}, \frac{60}{329}, \frac{90}{329}, \frac{90}{329}, \frac{120}{329})$ $+ \frac{30}{329}\sqrt{131}e^1 \otimes e_3$	{125, 147, 234567, 36, 125, 147, 234567, 36}
7421:1	$0, 0, 0, \frac{4}{37}\sqrt{30}e^{12}, \frac{2}{37}\sqrt{110}e^{13}, \frac{8}{37}\sqrt{10}e^{14}, \frac{4}{37}\sqrt{30}e^{16}$	$(\frac{8}{37}, -\frac{5}{37}, -\frac{12}{37}, \frac{3}{37}, -\frac{4}{37}, \frac{11}{37}, \frac{19}{37})$ $+ \frac{20}{37}\sqrt{3}e^1 \otimes e_3$	{126, 147, 23467, 3}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
7421:1	$0, 0, 0, \frac{4}{447}\sqrt{1794}e^{12}, \frac{20}{447}\sqrt{138}e^{13}, \frac{8}{447}\sqrt{1426}e^{14}, \frac{4}{447}\sqrt{6302}e^{16}$	$(\frac{50}{149}, -\frac{218}{447}, \frac{20}{447}, -\frac{68}{447}, \frac{170}{447}, \frac{82}{447}, \frac{232}{447})$ $+ \frac{32}{447}\sqrt{253}e^1 \otimes e_2$	{136, 156, 2, 235}
7421:1	$0, 0, 0, \frac{4}{47}\sqrt{78}e^{12}, \frac{4}{47}\sqrt{82}e^{13}, \frac{8}{47}\sqrt{2}e^{14}, \frac{4}{47}\sqrt{34}e^{16}$	$(-\frac{10}{47}, \frac{34}{47}, -\frac{4}{47}, \frac{24}{47}, -\frac{14}{47}, \frac{14}{47}, \frac{4}{47})$ $+ \frac{16}{47}\sqrt{14}e^2 \otimes e_5$	{123, 14567, 247, 356}
7421:1	$0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{35}\sqrt{170}e^{13}, \frac{4}{35}\sqrt{5}e^{14}, \frac{1}{35}\sqrt{210}e^{16}$	$(\frac{1}{14}, -\frac{3}{14}, \frac{2}{7}, -\frac{1}{7}, \frac{5}{14}, -\frac{1}{14}, 0)$ $+ \frac{1}{35}\sqrt{290}e^3 \otimes e_7 + \frac{1}{35}\sqrt{330}e^1 \otimes e_2$	{136, 235}
7421:1	$0, 0, 0, \frac{4}{119}\sqrt{57}e^{12}, \frac{6}{119}\sqrt{22}e^{13}, \frac{12}{119}\sqrt{6}e^{14}, \frac{4}{119}\sqrt{57}e^{16}$	$(-\frac{4}{119}, \frac{19}{119}, -\frac{16}{119}, \frac{15}{119}, -\frac{20}{119}, \frac{11}{119}, \frac{1}{17})$ $+ \frac{4}{119}\sqrt{66}e^2 \otimes e_7 + \frac{4}{119}\sqrt{93}e^1 \otimes e_3$	{126, 147}
7421:1	$0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{5}e^{13}, \frac{1}{8}\sqrt{13}e^{14}, \frac{1}{4}\sqrt{2}e^{16}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, \frac{3}{16}, -\frac{1}{4}, \frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{14}e^2 \otimes e_5 + \frac{3}{8}\sqrt{3}e^1 \otimes e_3$	{126, 23467}
7421:1	$0, 0, 0, \frac{4}{47}\sqrt{34}e^{12}, \frac{4}{47}\sqrt{82}e^{13}, \frac{8}{47}\sqrt{2}e^{14}, \frac{4}{47}\sqrt{78}e^{16}$	$(-\frac{10}{47}, \frac{46}{141}, \frac{100}{141}, \frac{16}{141}, \frac{70}{141}, -\frac{14}{141}, -\frac{44}{141})$ $+ \frac{16}{47}\sqrt{14}e^3 \otimes e_7$	{12346, 157, 267, 345}
7421:1	$0, 0, 0, \frac{24}{55}\sqrt{3}e^{12}, \frac{18}{55}\sqrt{3}e^{13}, \frac{6}{55}\sqrt{21}e^{14}, \frac{24}{55}\sqrt{3}e^{16}$	$(-\frac{18}{55}, \frac{39}{55}, \frac{21}{55}, \frac{21}{55}, \frac{3}{55}, \frac{3}{55}, -\frac{3}{11})$ $+ \frac{6}{55}\sqrt{129}e^2 \otimes e_7$	{12356, 126, 13457, 147}
7421:2	$0, 0, 0, \frac{8}{21}e^{12}, \frac{8}{21}\sqrt{2}e^{13}, \frac{8}{63}\sqrt{21}e^{24}, \frac{8}{21}\sqrt{2}e^{26}$	$(-\frac{13}{63}, \frac{5}{21}, -\frac{4}{63}, \frac{2}{63}, -\frac{17}{63}, \frac{17}{63}, \frac{32}{63})$ $+ \frac{8}{9}e^2 \otimes e_5$	{1236, 14567, 247, 35}
7421:2	$0, 0, 0, \frac{7}{149}\sqrt{66}e^{12}, \frac{35}{149}\sqrt{2}e^{13}, \frac{42}{149}\sqrt{2}e^{24}, \frac{35}{149}\sqrt{2}e^{26}$	$(\frac{7}{149}, \frac{14}{149}, -\frac{42}{149}, \frac{21}{149}, -\frac{35}{149}, \frac{35}{149}, \frac{49}{149})$ $+ \frac{14}{149}\sqrt{42}e^2 \otimes e_5 + \frac{7}{149}\sqrt{82}e^1 \otimes e_3$	{14567, 35}
7421:2	$0, 0, 0, \frac{7}{41}\sqrt{30}e^{12}, \frac{14}{41}e^{13}, \frac{7}{41}\sqrt{6}e^{24}, \frac{14}{41}e^{26}$	$(\frac{28}{41}, -\frac{7}{41}, -\frac{21}{41}, \frac{7}{41}, \frac{7}{41}, \frac{14}{41}, \frac{7}{41})$ $+ \frac{56}{41}e^1 \otimes e_3$	{1267, 146, 234, 37}
7421:2	$0, 0, 0, \frac{3}{203}\sqrt{58}e^{12}, \frac{6}{203}\sqrt{29}e^{13}, \frac{6}{203}\sqrt{21}e^{24}, \frac{6}{203}\sqrt{29}e^{26}$	$(\frac{18}{203}, -\frac{3}{203}, -\frac{30}{203}, \frac{15}{203}, -\frac{12}{203}, \frac{12}{203}, \frac{9}{203})$ $+ \frac{3}{203}\sqrt{154}e^1 \otimes e_7 + \frac{6}{29}e^2 \otimes e_5$	{1236, 247}
7421:2	$0, 0, 0, \frac{68}{173}\sqrt{2}e^{12}, \frac{4}{173}\sqrt{1173}e^{13}, \frac{8}{173}\sqrt{51}e^{24}, \frac{4}{173}\sqrt{1173}e^{26}$	$(\frac{1}{173}, -\frac{11}{173}, \frac{104}{173}, -\frac{10}{173}, \frac{105}{173}, -\frac{21}{173}, -\frac{32}{173})$ $+ \frac{4}{173}\sqrt{2329}e^3 \otimes e_7$	{12457, 13, 2356, 467}
7421:2	$0, 0, 0, \frac{5}{91}\sqrt{78}e^{12}, \frac{10}{91}\sqrt{39}e^{13}, \frac{5}{91}\sqrt{42}e^{24}, \frac{10}{91}\sqrt{39}e^{26}$	$(\frac{4}{7}, -\frac{25}{91}, -\frac{5}{91}, \frac{27}{91}, \frac{47}{91}, \frac{2}{91}, -\frac{23}{91})$ $+ \frac{10}{91}\sqrt{105}e^1 \otimes e_7$	{1236, 1256, 23457, 247}
7421:3	$0, 0, 0, \frac{5}{28}\sqrt{13}e^{12}, \frac{5}{42}\sqrt{30}e^{13}, \frac{5}{84}\sqrt{6}e^{14}, \frac{5}{42}\sqrt{21}e^{16} + \frac{5}{28}\sqrt{13}e^{23}$	$(-\frac{5}{56}, \frac{15}{28}, -\frac{15}{56}, \frac{25}{56}, -\frac{5}{14}, \frac{5}{14}, \frac{15}{56})$ $+ \frac{5}{84}\sqrt{402}e^2 \otimes e_5$	{123, 247}
7421:4	$0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{22}e^{13}, \frac{1}{8}\sqrt{14}e^{14}, \frac{1}{8}\sqrt{19}e^{16} + \frac{3}{8}\sqrt{3}e^{24}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, \frac{3}{16}, -\frac{1}{4}, \frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{41}e^2 \otimes e_5$	{14567, 356}
7421:4	$0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{19}e^{13}, \frac{3}{8}\sqrt{3}e^{14}, \frac{1}{8}\sqrt{22}e^{16} + \frac{1}{8}\sqrt{14}e^{24}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, \frac{3}{16}, -\frac{1}{4}, \frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{41}e^1 \otimes e_3$	{126, 23467}
7421:4	$0, 0, 0, \frac{13}{56}\sqrt{3}e^{12}, \frac{65}{224}\sqrt{7}e^{13}, \frac{13}{224}\sqrt{83}e^{14}, \frac{39}{224}\sqrt{6}e^{16} + \frac{13}{224}\sqrt{159}e^{24}$	$(-\frac{13}{448}, -\frac{13}{224}, \frac{39}{64}, -\frac{39}{448}, \frac{65}{112}, -\frac{13}{112}, -\frac{65}{448})$ $+ \frac{143}{224}\sqrt{3}e^3 \otimes e_7$	{12346, 267}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
7421:5	$0, 0, 0, \frac{5}{107}\sqrt{6}e^{12}, \frac{35}{107}\sqrt{2}e^{13}, \frac{50}{107}e^{24}, \frac{5}{107}\sqrt{86}e^{14} + \frac{35}{107}\sqrt{2}e^{26}$	$(\frac{10}{107}, \frac{5}{107}, -\frac{30}{107}, \frac{15}{107}, -\frac{20}{107}, \frac{20}{107}, \frac{25}{107})$ $+ \frac{20}{107}\sqrt{11}e^2 \otimes e_5$	{1236, 14567}
7421:5	$0, 0, 0, \frac{9}{313}\sqrt{330}e^{12}, \frac{9}{313}\sqrt{690}e^{13}, \frac{18}{313}\sqrt{21}e^{24}, \frac{9}{313}\sqrt{138}e^{14} + \frac{9}{313}\sqrt{690}e^{26}$	$(-\frac{18}{313}, -\frac{9}{313}, \frac{198}{313}, -\frac{27}{313}, \frac{180}{313}, -\frac{36}{313}, -\frac{45}{313})$ $+ \frac{36}{313}\sqrt{93}e^3 \otimes e_7$	{2356, 467}
7421:5	$0, 0, 0, \frac{7}{89}\sqrt{102}e^{12}, \frac{56}{89}e^{13}, \frac{7}{89}\sqrt{30}e^{24}, \frac{28}{89}\sqrt{7}e^{14} + \frac{56}{89}e^{26}$	$(\frac{14}{89}, \frac{7}{89}, -\frac{35}{89}, \frac{21}{89}, -\frac{21}{89}, \frac{28}{89}, \frac{35}{89})$ $+ \frac{14}{89}\sqrt{39}e^1 \otimes e_3$	{23467, 36}
7421:6	$0, 0, 0, \frac{30}{571}\sqrt{181}e^{12}, \frac{150}{571}\sqrt{3}e^{13}, \frac{30}{571}\sqrt{67}e^{14}, \frac{30}{571}\sqrt{103}e^{16} + \frac{60}{571}\sqrt{39}e^{35}$	$(-\frac{150}{571}, \frac{390}{571}, \frac{45}{571}, \frac{240}{571}, -\frac{105}{571}, \frac{90}{571}, -\frac{60}{571})$ $+ \frac{30}{571}\sqrt{445}e^2 \otimes e_7$	{12356, 126}
7421:6	$0, 0, 0, \frac{10}{183}\sqrt{51}e^{12}, \frac{10}{61}\sqrt{10}e^{13}, \frac{10}{61}\sqrt{17}e^{14}, \frac{10}{183}\sqrt{177}e^{16} + \frac{10}{183}\sqrt{21}e^{35}$	$(\frac{20}{61}, -\frac{30}{61}, \frac{5}{61}, -\frac{10}{61}, \frac{25}{61}, \frac{10}{61}, \frac{30}{61})$ $+ \frac{10}{183}\sqrt{435}e^1 \otimes e_2$	{136, 156}
7421:8	$0, 0, 0, \frac{105}{1217}\sqrt{78}e^{12}, \frac{70}{1217}\sqrt{15}e^{13}, \frac{35}{1217}\sqrt{174}e^{24}, \frac{140}{1217}\sqrt{42}e^{15} + \frac{70}{1217}\sqrt{71}e^{26}$	$(\frac{560}{1217}, -\frac{35}{1217}, -\frac{665}{1217}, \frac{525}{1217}, -\frac{105}{1217}, \frac{490}{1217}, \frac{455}{1217})$ $+ \frac{70}{1217}\sqrt{478}e^1 \otimes e_3$	{1267, 234}
742:1	$0, 0, 0, \frac{5}{368}\sqrt{42}e^{12}, \frac{85}{368}e^{13}, \frac{5}{368}\sqrt{173}e^{14}, \frac{5}{368}\sqrt{303}e^{24}$	$(-\frac{85}{368}, \frac{35}{368}, \frac{105}{368}, -\frac{15}{368}, \frac{5}{368}, -\frac{25}{368}, \frac{55}{368})$ $+ \frac{15}{368}\sqrt{38}e^2 \otimes e_5 + \frac{5}{368}\sqrt{321}e^3 \otimes e_7$	{14567, 356}
742:1	$0, 0, 0, \frac{1}{37}\sqrt{870}e^{12}, \frac{4}{37}\sqrt{29}e^{13}, \frac{4}{37}\sqrt{58}e^{14}, \frac{1}{37}\sqrt{174}e^{24}$	$(\frac{14}{37}, -\frac{5}{37}, -\frac{15}{37}, \frac{9}{37}, -\frac{1}{37}, \frac{23}{37}, \frac{4}{37})$ $+ \frac{2}{37}\sqrt{435}e^1 \otimes e_3$	{126, 14, 23467, 37}
742:1	$0, 0, 0, \frac{1}{37}\sqrt{174}e^{12}, \frac{4}{37}\sqrt{58}e^{13}, \frac{4}{37}\sqrt{29}e^{14}, \frac{1}{37}\sqrt{870}e^{24}$	$(\frac{2}{37}, -\frac{5}{37}, \frac{21}{37}, -\frac{3}{37}, \frac{23}{37}, -\frac{1}{37}, -\frac{8}{37})$ $+ \frac{2}{37}\sqrt{435}e^3 \otimes e_7$	{12346, 13, 267, 47}
742:1	$0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{3}e^{13}, \frac{1}{8}\sqrt{5}e^{14}, \frac{1}{4}\sqrt{2}e^{24}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, \frac{3}{16}, -\frac{1}{4}, \frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{19}e^1 \otimes e_3 + \frac{1}{8}\sqrt{22}e^2 \otimes e_5$	{1457, 35}
742:1	$0, 0, 0, \frac{14}{377}\sqrt{69}e^{12}, \frac{28}{377}\sqrt{42}e^{13}, \frac{7}{377}\sqrt{30}e^{14}, \frac{7}{377}\sqrt{510}e^{24}$	$(-\frac{98}{377}, \frac{119}{377}, \frac{70}{377}, \frac{21}{377}, -\frac{28}{377}, -\frac{77}{377}, \frac{140}{377})$ $+ \frac{21}{377}\sqrt{130}e^2 \otimes e_5 + \frac{7}{377}\sqrt{762}e^3 \otimes e_6$	{1237, 14567}
742:1	$0, 0, 0, \frac{24}{157}\sqrt{13}e^{12}, \frac{28}{157}\sqrt{13}e^{13}, \frac{52}{157}\sqrt{2}e^{14}, \frac{4}{157}\sqrt{793}e^{24}$	$(-\frac{27}{157}, \frac{60}{157}, -\frac{17}{157}, \frac{33}{157}, -\frac{44}{157}, \frac{6}{157}, \frac{93}{157})$ $+ \frac{20}{157}\sqrt{65}e^2 \otimes e_5$	{1237, 14567, 24, 356}
742:1	$0, 0, 0, \frac{8}{91}\sqrt{3}e^{12}, \frac{8}{91}\sqrt{69}e^{13}, \frac{8}{91}\sqrt{69}e^{14}, \frac{8}{91}\sqrt{3}e^{24}$	$(-\frac{25}{91}, \frac{22}{91}, \frac{68}{91}, -\frac{3}{91}, \frac{43}{91}, -\frac{4}{91}, \frac{19}{91})$ $+ \frac{8}{91}\sqrt{213}e^3 \otimes e_6$	{12347, 1567, 235, 46}
742:2	$0, 0, 0, \frac{75}{917}\sqrt{30}e^{12}, \frac{275}{917}\sqrt{6}e^{13}, \frac{50}{917}\sqrt{159}e^{24}, \frac{25}{917}\sqrt{482}e^{14} + \frac{50}{917}\sqrt{102}e^{23}$	$(\frac{25}{131}, -\frac{225}{917}, \frac{50}{131}, -\frac{50}{917}, \frac{75}{131}, -\frac{275}{917}, \frac{125}{917})$ $+ \frac{25}{917}\sqrt{1510}e^3 \otimes e_6$	{267, 46}
742:2	$0, 0, 0, \frac{25}{983}\sqrt{390}e^{12}, \frac{25}{983}\sqrt{574}e^{13}, \frac{200}{983}\sqrt{11}e^{24}, \frac{100}{983}\sqrt{23}e^{14} + \frac{25}{983}\sqrt{222}e^{23}$	$(-\frac{100}{983}, \frac{325}{983}, -\frac{200}{983}, \frac{225}{983}, -\frac{300}{983}, \frac{550}{983}, \frac{125}{983})$ $+ \frac{25}{983}\sqrt{1570}e^2 \otimes e_5$	{1236, 357}
742:3	$0, 0, 0, \frac{5}{32}\sqrt{11}e^{12}, \frac{5}{32}\sqrt{23}e^{13}, \frac{5}{32}\sqrt{6}e^{14}, \frac{5}{32}\sqrt{23}e^{15}$	$(\frac{23}{64}, -\frac{27}{64}, -\frac{5}{32}, -\frac{1}{16}, \frac{13}{64}, \frac{19}{64}, \frac{9}{16})$ $+ \frac{5}{32}\sqrt{51}e^1 \otimes e_2$	{1367, 156, 2, 2357}
742:3	$0, 0, 0, \frac{8}{127}\sqrt{134}e^{12}, \frac{2}{127}\sqrt{67}e^{13}, \frac{2}{127}\sqrt{67}e^{14}, \frac{8}{127}\sqrt{134}e^{15}$	$(-\frac{34}{127}, \frac{95}{127}, \frac{29}{127}, \frac{61}{127}, -\frac{5}{127}, \frac{27}{127}, -\frac{39}{127})$ $+ \frac{6}{127}\sqrt{737}e^2 \otimes e_7$	{1235, 1467, 234, 567}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
742:3	$0, 0, 0, \frac{2}{13}\sqrt{6}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{2}{13}\sqrt{6}e^{14}, \frac{2}{13}\sqrt{6}e^{15}$	$(-\frac{4}{13}, \frac{6}{13}, \frac{6}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{2}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{22}e^2 \otimes e_7 - \frac{2}{13}\sqrt{22}e^3 \otimes e_6$	{1256, 246}
742:3	$0, 0, 0, \frac{2}{13}\sqrt{6}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{2}{13}\sqrt{6}e^{14}, \frac{2}{13}\sqrt{6}e^{15}$	$(-\frac{4}{13}, \frac{6}{13}, \frac{6}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{2}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{22}e^2 \otimes e_7 + \frac{2}{13}\sqrt{22}e^3 \otimes e_6$	{1256, 246}
742:3	$0, 0, 0, \frac{76}{173}e^{12}, \frac{152}{1211}\sqrt{5}e^{13}, \frac{114}{1211}\sqrt{13}e^{14}, \frac{19}{1211}\sqrt{390}e^{15}$	$(\frac{76}{1211}, \frac{228}{1211}, -\frac{285}{1211}, \frac{304}{1211}, -\frac{209}{1211}, \frac{380}{1211}, -\frac{19}{173})$ $+ \frac{19}{1211}\sqrt{1182}e^1 \otimes e_3 + \frac{38}{1211}\sqrt{237}e^2 \otimes e_7$	{147, 2346}
742:4	$0, 0, 0, \frac{28}{543}\sqrt{138}e^{12}, \frac{28}{543}\sqrt{6}e^{13}, \frac{28}{543}\sqrt{181}e^{24}, \frac{28}{181}\sqrt{15}e^{15}$	$(-\frac{49}{181}, \frac{224}{543}, \frac{42}{181}, \frac{77}{543}, -\frac{7}{181}, \frac{301}{543}, -\frac{56}{181})$ $+ \frac{28}{181}\sqrt{47}e^2 \otimes e_7$	{12356, 1467, 234, 57}
742:4	$0, 0, 0, \frac{84}{1739}\sqrt{58}e^{12}, \frac{42}{1739}\sqrt{39}e^{13}, \frac{42}{1739}\sqrt{179}e^{24}, \frac{105}{1739}\sqrt{34}e^{15}$	$(\frac{84}{1739}, \frac{252}{1739}, -\frac{357}{1739}, \frac{336}{1739}, -\frac{273}{1739}, \frac{588}{1739}, -\frac{189}{1739})$ $+ \frac{21}{1739}\sqrt{1330}e^1 \otimes e_3 + \frac{42}{1739}\sqrt{422}e^2 \otimes e_7$	{1467, 234}
742:4	$0, 0, 0, \frac{7}{159}\sqrt{30}e^{12}, \frac{28}{159}\sqrt{3}e^{13}, \frac{7}{159}\sqrt{106}e^{24}, \frac{7}{53}\sqrt{6}e^{15}$	$(-\frac{14}{53}, \frac{28}{159}, \frac{21}{53}, -\frac{14}{159}, \frac{7}{53}, \frac{14}{159}, -\frac{7}{53})$ $+ \frac{28}{53}e^2 \otimes e_7 + \frac{7}{53}\sqrt{14}e^3 \otimes e_6$	{1256, 357}
742:4	$0, 0, 0, \frac{1}{267}\sqrt{9618}e^{12}, \frac{8}{267}\sqrt{687}e^{13}, \frac{1}{267}\sqrt{40762}e^{24}, \frac{1}{89}\sqrt{1374}e^{15}$	$(-\frac{14}{89}, -\frac{8}{267}, \frac{57}{89}, -\frac{50}{267}, \frac{43}{89}, -\frac{58}{267}, \frac{29}{89})$ $+ \frac{1}{89}\sqrt{10534}e^3 \otimes e_6$	{12347, 137, 26, 46}
742:4	$0, 0, 0, \frac{2}{261}\sqrt{8943}e^{12}, \frac{2}{261}\sqrt{271}e^{13}, \frac{2}{261}\sqrt{2710}e^{24}, \frac{1}{261}\sqrt{35230}e^{15}$	$(\frac{44}{87}, -\frac{26}{261}, -\frac{139}{261}, \frac{106}{261}, -\frac{7}{261}, \frac{80}{261}, \frac{125}{261})$ $+ \frac{1}{261}\sqrt{108942}e^1 \otimes e_3$	{1267, 1467, 234, 3}
742:5	$0, 0, 0, \frac{1}{21}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{6}e^{13}, \frac{1}{21}\sqrt{14}e^{24}, \frac{1}{21}\sqrt{14}e^{35}$	$(-\frac{1}{7}, \frac{2}{21}, \frac{2}{21}, -\frac{1}{21}, -\frac{1}{21}, \frac{1}{21}, \frac{1}{21})$ $+ \frac{1}{7}\sqrt{2}e^2 \otimes e_7 + \frac{1}{7}\sqrt{2}e^3 \otimes e_6$	{14567, 2345}
742:5	$0, 0, 0, \frac{4}{69}\sqrt{114}e^{12}, \frac{2}{69}\sqrt{57}e^{13}, \frac{2}{69}\sqrt{437}e^{24}, \frac{2}{69}\sqrt{437}e^{35}$	$(-\frac{2}{23}, \frac{22}{69}, -\frac{5}{69}, \frac{16}{69}, -\frac{11}{69}, \frac{38}{69}, -\frac{16}{69})$ $+ \frac{2}{23}\sqrt{114}e^2 \otimes e_7$	{12356, 126, 37, 57}
742:6	$0, 0, 0, \frac{50}{803}\sqrt{15}e^{12}, \frac{25}{803}\sqrt{174}e^{13}, \frac{25}{803}\sqrt{562}e^{14}, \frac{25}{803}\sqrt{254}e^{15} + \frac{25}{803}\sqrt{582}e^{23}$	$(-\frac{50}{803}, -\frac{100}{803}, \frac{425}{803}, -\frac{150}{803}, \frac{375}{803}, -\frac{200}{803}, \frac{325}{803})$ $+ \frac{50}{803}\sqrt{321}e^3 \otimes e_6$	{1234, 235}
742:7	$0, 0, 0, \frac{29}{1031}\sqrt{210}e^{12}, \frac{116}{1031}\sqrt{41}e^{13}, \frac{29}{1031}\sqrt{586}e^{24}, \frac{29}{1031}\sqrt{118}e^{15} + \frac{116}{1031}\sqrt{19}e^{23}$	$(-\frac{58}{1031}, -\frac{116}{1031}, \frac{551}{1031}, -\frac{174}{1031}, \frac{493}{1031}, -\frac{290}{1031}, \frac{435}{1031})$ $+ \frac{29}{1031}\sqrt{1614}e^3 \otimes e_6$	{137, 46}
742:8	$0, 0, 0, \frac{124}{911}e^{12}, \frac{31}{911}\sqrt{458}e^{13}, \frac{124}{911}\sqrt{29}e^{14}, \frac{31}{911}\sqrt{10}e^{15} + \frac{93}{911}\sqrt{2}e^{24}$	$(-\frac{248}{911}, \frac{217}{911}, \frac{682}{911}, -\frac{31}{911}, \frac{434}{911}, -\frac{279}{911}, \frac{186}{911})$ $+ \frac{93}{911}\sqrt{158}e^3 \otimes e_6$	{1567, 235}
742:9	$0, 0, 0, -\frac{7}{148}\sqrt{6}e^{12}, \frac{7}{148}\sqrt{138}e^{13}, \frac{7}{74}\sqrt{46}e^{14}, \frac{49}{148}\sqrt{2}e^{24} + \frac{7}{148}\sqrt{230}e^{35}$	$(-\frac{49}{148}, \frac{14}{37}, \frac{14}{37}, \frac{7}{148}, \frac{7}{148}, -\frac{21}{74}, \frac{63}{148})$ $+ \frac{7}{74}\sqrt{118}e^3 \otimes e_6$	{12347, 1567, 235, 46, 12347, 1567, 235, 46}
742:9	$0, 0, 0, \frac{7}{148}\sqrt{6}e^{12}, \frac{7}{148}\sqrt{138}e^{13}, \frac{7}{74}\sqrt{46}e^{14}, \frac{49}{148}\sqrt{2}e^{24} + \frac{7}{148}\sqrt{230}e^{35}$	$(-\frac{49}{148}, \frac{14}{37}, \frac{14}{37}, \frac{7}{148}, \frac{7}{148}, -\frac{21}{74}, \frac{63}{148})$ $+ \frac{7}{74}\sqrt{118}e^3 \otimes e_6$	{12347, 1567, 235, 46, 12347, 1567, 235, 46}
742:11	$0, 0, 0, \frac{1}{25}\sqrt{30}e^{12}, \frac{1}{25}\sqrt{130}e^{13}, \frac{2}{25}\sqrt{30}e^{24}, \frac{1}{25}\sqrt{110}e^{14} + \frac{2}{25}\sqrt{30}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{210}e^3 \otimes e_6$	{12347, 46}
741:1	$0, 0, 0, \frac{3}{112}\sqrt{535}e^{12}, \frac{1}{56}\sqrt{1177}e^{13}, \frac{3}{112}\sqrt{535}e^{23}, \frac{1}{112}\sqrt{214}e^{14}$	$(-\frac{41}{224}, \frac{67}{112}, -\frac{39}{224}, \frac{93}{224}, -\frac{5}{14}, \frac{95}{224}, \frac{13}{56})$ $+ \frac{1}{112}\sqrt{18618}e^2 \otimes e_5$	{1237, 145, 2467, 356}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
741:1	$0, 0, 0, \frac{36}{371}\sqrt{10}e^{12}, \frac{9}{371}\sqrt{102}e^{13}, \frac{36}{371}\sqrt{10}e^{23}, \frac{18}{371}\sqrt{29}e^{14}$	$(\frac{36}{371}, \frac{36}{371}, -\frac{81}{371}, \frac{72}{371}, -\frac{45}{371}, -\frac{45}{371}, \frac{108}{371})$ $+ \frac{18}{371}\sqrt{73}e^2 \otimes e_5 + \frac{45}{371}\sqrt{14}e^1 \otimes e_6$	{1237, 145, 2467, 356}
741:1	$0, 0, 0, \frac{36}{371}\sqrt{10}e^{12}, \frac{9}{371}\sqrt{102}e^{13}, \frac{36}{371}\sqrt{10}e^{23}, \frac{18}{371}\sqrt{29}e^{14}$	$(\frac{36}{371}, \frac{36}{371}, -\frac{81}{371}, \frac{72}{371}, -\frac{45}{371}, -\frac{45}{371}, \frac{108}{371})$ $- \frac{18}{371}\sqrt{73}e^2 \otimes e_5 + \frac{45}{371}\sqrt{14}e^1 \otimes e_6$	{1237, 145, 2467, 356}
741:1	$0, 0, 0, \frac{4}{447}\sqrt{1794}e^{12}, \frac{20}{447}\sqrt{138}e^{13}, \frac{4}{447}\sqrt{6302}e^{23}, \frac{8}{447}\sqrt{1426}e^{14}$	$(-\frac{65}{447}, -\frac{1}{149}, \frac{235}{447}, -\frac{68}{447}, \frac{170}{447}, \frac{232}{447}, -\frac{133}{447})$ $+ \frac{32}{447}\sqrt{253}e^3 \otimes e_7$	{1234, 157, 235, 47}
741:1	$0, 0, 0, \frac{84}{1331}\sqrt{5}e^{12}, \frac{336}{1331}\sqrt{2}e^{13}, \frac{21}{1331}\sqrt{690}e^{23}, \frac{42}{1331}\sqrt{89}e^{14}$	$(-\frac{294}{1331}, \frac{336}{1331}, \frac{189}{1331}, \frac{42}{1331}, -\frac{105}{1331}, \frac{525}{1331}, -\frac{252}{1331})$ $+ \frac{21}{1331}\sqrt{1082}e^2 \otimes e_5 + \frac{42}{1331}\sqrt{305}e^3 \otimes e_7$	{2467, 356}
741:1	$0, 0, 0, \frac{18}{295}\sqrt{5}e^{12}, \frac{3}{295}\sqrt{370}e^{13}, \frac{12}{59}\sqrt{2}e^{23}, \frac{6}{295}\sqrt{215}e^{14}$	$(\frac{6}{59}, -\frac{12}{59}, \frac{9}{59}, -\frac{6}{59}, \frac{15}{59}, -\frac{3}{59}, 0)$ $+ \frac{3}{295}\sqrt{1330}e^1 \otimes e_6 + \frac{6}{295}\sqrt{310}e^3 \otimes e_7$	{2467, 356}
741:1	$0, 0, 0, \frac{1}{39}\sqrt{498}e^{12}, \frac{1}{39}\sqrt{166}e^{13}, \frac{1}{39}\sqrt{498}e^{23}, \frac{2}{39}\sqrt{166}e^{14}$	$(\frac{5}{13}, -\frac{28}{117}, -\frac{10}{117}, \frac{17}{117}, \frac{35}{117}, -\frac{38}{117}, \frac{62}{117})$ $+ \frac{1}{117}\sqrt{15106}e^1 \otimes e_6$	{1237, 145, 2467, 356}
741:2	$0, 0, 0, \frac{25}{947}\sqrt{66}e^{12}, \frac{50}{947}\sqrt{105}e^{13}, \frac{50}{947}\sqrt{142}e^{23}, \frac{50}{947}\sqrt{177}e^{15} + \frac{50}{947}\sqrt{74}e^{24}$	$(\frac{350}{947}, \frac{25}{947}, -\frac{300}{947}, \frac{375}{947}, \frac{50}{947}, -\frac{275}{947}, \frac{400}{947})$ $+ \frac{25}{947}\sqrt{1506}e^1 \otimes e_6$	{145, 3567}
741:3	$0, 0, 0, -\frac{24}{67}\sqrt{3}e^{12}, \frac{24}{67}\sqrt{3}e^{13}, \frac{8}{67}\sqrt{26}e^{23}, \frac{8}{67}e^{24} + \frac{8}{67}e^{35}$	$(\frac{40}{67}, -\frac{12}{67}, -\frac{12}{67}, \frac{28}{67}, \frac{28}{67}, -\frac{24}{67}, \frac{16}{67})$ $+ \frac{16}{67}\sqrt{26}e^1 \otimes e_6$	{1237, 1457, 246, 1237, 1457, 246}
741:3	$0, 0, 0, \frac{24}{67}\sqrt{3}e^{12}, \frac{24}{67}\sqrt{3}e^{13}, \frac{8}{67}\sqrt{26}e^{23}, \frac{8}{67}e^{24} + \frac{8}{67}e^{35}$	$(\frac{40}{67}, -\frac{12}{67}, -\frac{12}{67}, \frac{28}{67}, \frac{28}{67}, -\frac{24}{67}, \frac{16}{67})$ $+ \frac{16}{67}\sqrt{26}e^1 \otimes e_6$	{1237, 1457, 246, 1237, 1457, 246}
7321:1	$0, 0, 0, 0, \frac{2}{199}\sqrt{366}e^{12}, \frac{2}{199}\sqrt{2806}e^{15}, \frac{8}{199}\sqrt{183}e^{16}$	$(\frac{50}{199}, -\frac{72}{199}, \frac{91}{199}, -\frac{31}{199}, -\frac{22}{199}, \frac{28}{199}, \frac{78}{199})$ $+ \frac{122}{199}e^3 \otimes e_4 + \frac{12}{199}\sqrt{183}e^1 \otimes e_2$	{136, 146, 23, 24}
7321:1	$0, 0, 0, 0, \frac{1}{199}\sqrt{32982}e^{12}, \frac{1}{199}\sqrt{7170}e^{15}, \frac{4}{199}\sqrt{239}e^{16}$	$(-\frac{31}{199}, \frac{130}{199}, -\frac{109}{199}, \frac{45}{199}, \frac{99}{199}, \frac{68}{199}, \frac{37}{199})$ $+ \frac{2}{199}\sqrt{18403}e^2 \otimes e_3$	{12467, 1267, 1345, 135, 2456, 256, 347, 37}
7321:1	$0, 0, 0, 0, \frac{3}{26}\sqrt{39}e^{12}, \frac{3}{13}\sqrt{3}e^{15}, \frac{3}{26}\sqrt{39}e^{16}$	$(-\frac{9}{26}, \frac{3}{4}, \frac{3}{13}, \frac{3}{13}, \frac{21}{52}, \frac{3}{52}, -\frac{15}{52})$ $+ \frac{3}{13}\sqrt{30}e^2 \otimes e_7$	{12346, 1236, 126, 13457, 1357, 157}
7321:1	$0, 0, 0, 0, \frac{1}{58}\sqrt{435}e^{12}, \frac{3}{29}\sqrt{10}e^{15}, \frac{1}{58}\sqrt{435}e^{16}$	$(-\frac{5}{58}, \frac{31}{116}, -\frac{10}{29}, \frac{4}{29}, \frac{21}{116}, \frac{11}{116}, \frac{1}{116})$ $+ \frac{1}{29}\sqrt{165}e^2 \otimes e_7 + \frac{1}{29}\sqrt{210}e^1 \otimes e_3$	{1246, 126, 1457, 157}
7321:1	$0, 0, 0, 0, \frac{4}{39}\sqrt{6}e^{12}, \frac{16}{39}e^{15}, \frac{8}{39}\sqrt{7}e^{16}$	$(\frac{5}{39}, -\frac{11}{39}, \frac{20}{39}, \frac{5}{39}, -\frac{2}{13}, -\frac{1}{39}, \frac{4}{39})$ $+ \frac{4}{39}\sqrt{30}e^3 \otimes e_7 + \frac{4}{39}\sqrt{38}e^1 \otimes e_2$	{1346, 136, 23, 234}
7321:1	$0, 0, 0, 0, \frac{4}{199}\sqrt{239}e^{12}, \frac{1}{199}\sqrt{7170}e^{15}, \frac{1}{199}\sqrt{32982}e^{16}$	$(-\frac{31}{199}, \frac{53}{199}, 1, \frac{45}{199}, \frac{22}{199}, -\frac{9}{199}, -\frac{40}{199})$ $+ \frac{2}{199}\sqrt{18403}e^3 \otimes e_7$	{12457, 1257, 1346, 136, 23, 234, 4567, 567}
7321:1	$0, 0, 0, 0, \frac{6}{79}\sqrt{39}e^{12}, \frac{12}{79}\sqrt{3}e^{15}, \frac{6}{79}\sqrt{39}e^{16}$	$(-\frac{18}{79}, \frac{39}{79}, \frac{39}{79}, -\frac{15}{79}, \frac{21}{79}, \frac{3}{79}, -\frac{15}{79})$ $+ \frac{12}{79}\sqrt{30}e^2 \otimes e_7 + \frac{54}{79}e^3 \otimes e_4$	{1236, 1246, 1357, 1457}
7321:1	$0, 0, 0, 0, \frac{1}{69}\sqrt{366}e^{12}, \frac{1}{69}\sqrt{2806}e^{15}, \frac{4}{69}\sqrt{183}e^{16}$	$(\frac{25}{69}, -\frac{12}{23}, \frac{5}{23}, \frac{5}{23}, -\frac{11}{69}, \frac{14}{69}, \frac{13}{23})$ $+ \frac{2}{23}\sqrt{183}e^1 \otimes e_2$	{1346, 136, 16, 2, 23, 234}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
7321:1	$0, 0, 0, 0, \frac{2}{49}\sqrt{111}e^{12}, \frac{4}{49}\sqrt{37}e^{15}, \frac{2}{49}\sqrt{111}e^{16}$	$(\frac{2}{49}, \frac{9}{49}, 1, -\frac{25}{49}, \frac{11}{49}, \frac{13}{49}, \frac{15}{49})$ $+ \frac{74}{49}e^3 \otimes e_4$	{1236, 1246, 1357, 1457, 23567, 24567, 3, 4}
7321:1	$0, 0, 0, 0, \frac{1}{6}\sqrt{13}e^{12}, \frac{1}{9}\sqrt{39}e^{15}, \frac{1}{6}\sqrt{13}e^{16}$	$(\frac{1}{6}, -\frac{1}{36}, -\frac{5}{9}, \frac{2}{9}, \frac{5}{36}, \frac{11}{36}, \frac{17}{36})$ $+ \frac{1}{9}\sqrt{91}e^1 \otimes e_3$	{1246, 126, 1457, 157, 234567, 23567, 3, 34}
7321:1	$0, 0, 0, 0, \frac{8}{41}\sqrt{6}e^{12}, \frac{12}{41}\sqrt{2}e^{15}, \frac{4}{41}\sqrt{10}e^{16}$	$(\frac{1}{41}, \frac{8}{41}, \frac{15}{41}, -\frac{8}{41}, \frac{9}{41}, \frac{10}{41}, \frac{11}{41})$ $+ \frac{4}{41}\sqrt{42}e^1 \otimes e_3 + \frac{8}{41}\sqrt{7}e^2 \otimes e_4$	{126, 1457, 23567, 34}
7321:1	$0, 0, 0, 0, \frac{16}{181}\sqrt{26}e^{12}, \frac{48}{181}e^{15}, \frac{16}{181}\sqrt{26}e^{16}$	$(-\frac{34}{181}, \frac{78}{181}, \frac{104}{181}, -\frac{50}{181}, \frac{44}{181}, \frac{10}{181}, -\frac{24}{181})$ $+ \frac{16}{181}\sqrt{77}e^2 \otimes e_4 + \frac{16}{181}\sqrt{77}e^3 \otimes e_7$	{1236, 1457, 2567, 34}
7321:1	$0, 0, 0, 0, \frac{4}{41}\sqrt{10}e^{12}, \frac{12}{41}\sqrt{2}e^{15}, \frac{8}{41}\sqrt{6}e^{16}$	$(\frac{1}{41}, \frac{1}{41}, \frac{20}{41}, -\frac{15}{41}, \frac{2}{41}, \frac{3}{41}, \frac{4}{41})$ $+ \frac{4}{41}\sqrt{42}e^1 \otimes e_4 + \frac{8}{41}\sqrt{7}e^3 \otimes e_7$	{1236, 157, 24567, 34}
7321:2	$0, 0, 0, 0, \frac{20}{167}\sqrt{15}e^{12}, \frac{10}{167}\sqrt{70}e^{15}, \frac{10}{167}\sqrt{30}e^{16} + \frac{20}{167}\sqrt{15}e^{34}$	$(\frac{10}{167}, \frac{30}{167}, \frac{155}{167}, -\frac{95}{167}, \frac{40}{167}, \frac{50}{167}, \frac{60}{167})$ $+ \frac{250}{167}e^3 \otimes e_4$	{1357, 1457, 23567, 24567}
7321:2	$0, 0, 0, 0, \frac{10}{91}\sqrt{39}e^{12}, \frac{5}{91}\sqrt{42}e^{15}, \frac{5}{91}\sqrt{78}e^{16} + \frac{10}{91}\sqrt{39}e^{34}$	$(-\frac{25}{91}, \frac{5}{7}, -\frac{5}{91}, -\frac{5}{91}, \frac{40}{91}, \frac{15}{91}, -\frac{10}{91})$ $+ \frac{10}{91}\sqrt{105}e^2 \otimes e_7$	{12346, 126, 1357}
7321:2	$0, 0, 0, 0, \frac{5}{41}\sqrt{3}e^{12}, \frac{5}{41}\sqrt{19}e^{15}, \frac{5}{41}\sqrt{21}e^{16} + \frac{5}{41}\sqrt{3}e^{34}$	$(\frac{10}{41}, -\frac{15}{41}, \frac{20}{41}, -\frac{5}{41}, -\frac{5}{41}, \frac{5}{41}, \frac{15}{41})$ $+ \frac{15}{41}\sqrt{5}e^1 \otimes e_2 - \frac{25}{41}e^3 \otimes e_4$	{136, 146, 23, 24}
7321:2	$0, 0, 0, 0, \frac{5}{41}\sqrt{3}e^{12}, \frac{5}{41}\sqrt{19}e^{15}, \frac{5}{41}\sqrt{21}e^{16} + \frac{5}{41}\sqrt{3}e^{34}$	$(\frac{10}{41}, -\frac{15}{41}, \frac{20}{41}, -\frac{5}{41}, -\frac{5}{41}, \frac{5}{41}, \frac{15}{41})$ $+ \frac{15}{41}\sqrt{5}e^1 \otimes e_2 + \frac{25}{41}e^3 \otimes e_4$	{136, 146, 23, 24}
7321:2	$0, 0, 0, 0, \frac{20}{257}\sqrt{39}e^{12}, \frac{10}{257}\sqrt{42}e^{15}, \frac{10}{257}\sqrt{78}e^{16} + \frac{20}{257}\sqrt{39}e^{34}$	$(-\frac{50}{257}, \frac{130}{257}, \frac{65}{257}, -\frac{85}{257}, \frac{80}{257}, \frac{30}{257}, -\frac{20}{257})$ $+ \frac{150}{257}e^3 \otimes e_4 + \frac{20}{257}\sqrt{105}e^2 \otimes e_7$	{1357, 1457}
7321:2	$0, 0, 0, 0, \frac{10}{57}\sqrt{3}e^{12}, \frac{10}{57}\sqrt{19}e^{15}, \frac{10}{57}\sqrt{21}e^{16} + \frac{10}{57}\sqrt{3}e^{34}$	$(\frac{20}{57}, -\frac{10}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{10}{57}, \frac{10}{57}, \frac{10}{19})$ $+ \frac{10}{19}\sqrt{5}e^1 \otimes e_2$	{136, 23}
7321:3	$0, 0, 0, 0, \frac{5}{124}\sqrt{345}e^{12}, \frac{15}{124}\sqrt{10}e^{15}, \frac{5}{62}\sqrt{35}e^{16} + \frac{5}{124}\sqrt{345}e^{23}$	$(-\frac{5}{248}, \frac{55}{124}, -\frac{15}{248}, -\frac{35}{62}, \frac{105}{248}, \frac{25}{62}, \frac{95}{248})$ $+ \frac{5}{124}\sqrt{970}e^2 \otimes e_4$	{1267, 145, 2356, 347}
7321:3	$0, 0, 0, 0, \frac{5}{62}\sqrt{35}e^{12}, \frac{15}{124}\sqrt{10}e^{15}, \frac{5}{124}\sqrt{345}e^{16} + \frac{5}{124}\sqrt{345}e^{23}$	$(-\frac{5}{248}, \frac{13}{248}, -\frac{15}{248}, 1, \frac{1}{31}, \frac{3}{248}, -\frac{1}{124})$ $+ \frac{5}{124}\sqrt{970}e^4 \otimes e_7$	{1257, 146, 234, 3567}
7321:3	$0, 0, 0, 0, \frac{2}{43}\sqrt{178}e^{12}, \frac{1}{129}\sqrt{7654}e^{15}, \frac{2}{43}\sqrt{178}e^{16} + \frac{1}{129}\sqrt{2670}e^{23}$	$(\frac{14}{129}, \frac{2}{43}, \frac{14}{43}, -\frac{25}{43}, \frac{20}{129}, \frac{34}{129}, \frac{16}{43})$ $+ \frac{2}{129}\sqrt{4539}e^1 \otimes e_4$	{126, 157, 234567, 34}
7321:3	$0, 0, 0, 0, \frac{2}{121}\sqrt{290}e^{12}, \frac{3}{121}\sqrt{290}e^{15}, \frac{2}{121}\sqrt{290}e^{16} + \frac{1}{121}\sqrt{12470}e^{23}$	$(\frac{26}{121}, -\frac{12}{121}, \frac{78}{121}, -\frac{67}{121}, \frac{14}{121}, \frac{40}{121}, \frac{6}{11})$ $+ \frac{2}{121}\sqrt{6815}e^3 \otimes e_4$	{1235, 1367, 247, 456}
7321:3	$0, 0, 0, 0, \frac{1}{121}\sqrt{12470}e^{12}, \frac{3}{121}\sqrt{290}e^{15}, \frac{2}{121}\sqrt{290}e^{16} + \frac{2}{121}\sqrt{290}e^{23}$	$(-\frac{21}{121}, \frac{82}{121}, -\frac{63}{121}, \frac{27}{121}, \frac{61}{121}, \frac{40}{121}, \frac{19}{121})$ $+ \frac{2}{121}\sqrt{6815}e^2 \otimes e_3$	{1345, 135, 2456, 256}
7321:3	$0, 0, 0, 0, \frac{28}{293}\sqrt{13}e^{12}, \frac{14}{293}\sqrt{30}e^{15}, \frac{14}{293}\sqrt{78}e^{16} + \frac{14}{293}\sqrt{78}e^{23}$	$(-\frac{35}{293}, \frac{91}{293}, -\frac{105}{293}, \frac{182}{293}, \frac{56}{293}, \frac{21}{293}, -\frac{14}{293})$ $+ \frac{14}{293}\sqrt{222}e^2 \otimes e_3 + \frac{14}{293}\sqrt{274}e^4 \otimes e_7$	{1357, 2567}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
7321:3	$0, 0, 0, 0, \frac{23}{1469}\sqrt{942}e^{12}, \frac{23}{1469}\sqrt{646}e^{15}, \frac{23}{1469}\sqrt{442}e^{16} + \frac{23}{1469}\sqrt{330}e^{23}$	$(-\frac{46}{1469}, \frac{391}{1469}, -\frac{138}{1469}, -\frac{575}{1469}, \frac{345}{1469}, \frac{23}{113}, \frac{253}{1469})$ $+ \frac{230}{1469}\sqrt{10}e^2 \otimes e_3 + \frac{46}{1469}\sqrt{386}e^1 \otimes e_4$	{126, 34}
7321:4	$0, 0, 0, 0, \frac{2}{89}\sqrt{402}e^{12}, \frac{2}{89}\sqrt{402}e^{15}, \frac{4}{89}\sqrt{67}e^{16} + \frac{4}{89}\sqrt{67}e^{25}$	$(\frac{6}{89}, \frac{12}{89}, 1, -\frac{45}{89}, \frac{18}{89}, \frac{24}{89}, \frac{30}{89})$ $+ \frac{134}{89}e^3 \otimes e_4$	{1357, 1457, 3, 4}
7321:4	$0, 0, 0, 0, \frac{24}{157}\sqrt{13}e^{12}, \frac{4}{157}\sqrt{793}e^{15}, \frac{28}{157}\sqrt{13}e^{16} + \frac{52}{157}\sqrt{2}e^{25}$	$(\frac{11}{157}, \frac{22}{157}, -\frac{93}{157}, \frac{32}{157}, \frac{33}{157}, \frac{44}{157}, \frac{55}{157})$ $+ \frac{20}{157}\sqrt{65}e^1 \otimes e_3$	{1246, 126, 234567, 23567}
7321:4	$0, 0, 0, 0, \frac{1}{37}\sqrt{870}e^{12}, \frac{1}{37}\sqrt{174}e^{15}, \frac{4}{37}\sqrt{29}e^{16} + \frac{4}{37}\sqrt{58}e^{25}$	$(\frac{3}{37}, \frac{6}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{9}{37}, \frac{12}{37}, \frac{15}{37})$ $+ \frac{2}{37}\sqrt{435}e^2 \otimes e_3$	{134567, 13567, 346, 36}
7321:4	$0, 0, 0, 0, \frac{11}{296}\sqrt{129}e^{12}, \frac{11}{74}\sqrt{3}e^{15}, \frac{11}{296}\sqrt{17}e^{16} + \frac{11}{296}\sqrt{219}e^{25}$	$(\frac{11}{592}, \frac{11}{296}, \frac{297}{592}, -\frac{55}{148}, \frac{33}{592}, \frac{11}{148}, \frac{55}{592})$ $+ \frac{11}{296}\sqrt{222}e^3 \otimes e_7 + \frac{11}{296}\sqrt{295}e^2 \otimes e_4$	{14567, 346}
7321:4	$0, 0, 0, 0, \frac{14}{377}\sqrt{69}e^{12}, \frac{7}{377}\sqrt{510}e^{15}, \frac{28}{377}\sqrt{42}e^{16} + \frac{7}{377}\sqrt{30}e^{25}$	$(\frac{7}{377}, \frac{14}{377}, \frac{14}{29}, -\frac{140}{377}, \frac{21}{377}, \frac{28}{377}, \frac{35}{377})$ $+ \frac{21}{377}\sqrt{130}e^1 \otimes e_4 + \frac{7}{377}\sqrt{762}e^3 \otimes e_7$	{1236, 24567}
7321:4	$0, 0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{4}\sqrt{2}e^{15}, \frac{1}{8}\sqrt{3}e^{16} + \frac{1}{8}\sqrt{5}e^{25}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, -\frac{1}{4}, \frac{3}{16}, \frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{19}e^2 \otimes e_4 + \frac{1}{8}\sqrt{22}e^1 \otimes e_3$	{1457, 34}
7321:4	$0, 0, 0, 0, \frac{8}{91}\sqrt{3}e^{12}, \frac{8}{91}\sqrt{3}e^{15}, \frac{8}{91}\sqrt{69}e^{16} + \frac{8}{91}\sqrt{69}e^{25}$	$(-\frac{1}{91}, -\frac{2}{91}, 1, \frac{20}{91}, -\frac{3}{91}, -\frac{4}{91}, -\frac{5}{91})$ $+ \frac{8}{91}\sqrt{213}e^3 \otimes e_7$	{123456, 12356, 2467, 267}
7321:5	$0, 0, 0, 0, \frac{16}{107}\sqrt{10}e^{12}, \frac{16}{107}\sqrt{10}e^{15}, \frac{8}{107}\sqrt{15}e^{16} + \frac{8}{107}\sqrt{15}e^{25} + \frac{8}{107}\sqrt{35}e^{34}$	$(\frac{8}{107}, \frac{16}{107}, \frac{100}{107}, -\frac{60}{107}, \frac{24}{107}, \frac{32}{107}, \frac{40}{107})$ $+ \frac{160}{107}e^3 \otimes e_4$	{1357, 1457}
732:1	$0, 0, 0, 0, \frac{48}{181}e^{12}, \frac{16}{181}\sqrt{26}e^{15}, \frac{16}{181}\sqrt{26}e^{25}$	$(-\frac{8}{181}, -\frac{8}{181}, \frac{104}{181}, \frac{104}{181}, -\frac{16}{181}, -\frac{24}{181}, -\frac{24}{181})$ $+ \frac{16}{181}\sqrt{77}e^3 \otimes e_6 + \frac{16}{181}\sqrt{77}e^4 \otimes e_7$	{1267, 1357, 34}
732:1	$0, 0, 0, 0, \frac{1}{199}\sqrt{7170}e^{12}, \frac{1}{199}\sqrt{32982}e^{15}, \frac{4}{199}\sqrt{239}e^{25}$	$(-\frac{39}{199}, \frac{38}{199}, 1, \frac{45}{199}, -\frac{1}{199}, -\frac{40}{199}, \frac{37}{199})$ $+ \frac{2}{199}\sqrt{18403}e^3 \otimes e_6$	{1246, 126, 1345, 135, 24567, 2567, 347, 37}
732:1	$0, 0, 0, 0, \frac{1}{69}\sqrt{2806}e^{12}, \frac{4}{69}\sqrt{183}e^{15}, \frac{1}{69}\sqrt{366}e^{25}$	$(\frac{22}{69}, -\frac{5}{69}, -\frac{13}{23}, \frac{5}{23}, \frac{17}{69}, \frac{13}{23}, \frac{4}{23})$ $+ \frac{2}{23}\sqrt{183}e^1 \otimes e_3$	{1246, 126, 145, 15, 234567, 23567, 347, 37}
732:1	$0, 0, 0, 0, \frac{4}{49}\sqrt{37}e^{12}, \frac{2}{49}\sqrt{111}e^{15}, \frac{2}{49}\sqrt{111}e^{25}$	$(\frac{5}{49}, \frac{5}{49}, 1, -\frac{25}{49}, \frac{10}{49}, \frac{15}{49}, \frac{15}{49})$ $+ \frac{74}{49}e^3 \otimes e_4$	{12367, 12467, 1357, 1457, 3, 4}
732:1	$0, 0, 0, 0, \frac{4}{21}\sqrt{7}e^{12}, \frac{4}{21}\sqrt{3}e^{15}, \frac{4}{21}\sqrt{3}e^{25}$	$(\frac{2}{21}, \frac{2}{21}, -\frac{2}{7}, -\frac{2}{7}, \frac{4}{21}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{4}{7}e^1 \otimes e_3 + \frac{4}{7}e^2 \otimes e_4$	{1267, 1457, 34}
732:1	$0, 0, 0, 0, \frac{16}{39}e^{12}, \frac{8}{39}\sqrt{7}e^{15}, \frac{4}{39}\sqrt{6}e^{25}$	$(\frac{2}{39}, 0, \frac{20}{39}, -\frac{14}{39}, \frac{2}{39}, \frac{4}{39}, \frac{2}{39})$ $+ \frac{4}{39}\sqrt{30}e^3 \otimes e_6 + \frac{4}{39}\sqrt{38}e^1 \otimes e_4$	{126, 135, 24567, 347}
732:1	$0, 0, 0, 0, \frac{42}{83}e^{12}, \frac{7}{83}\sqrt{30}e^{15}, \frac{21}{83}\sqrt{2}e^{25}$	$(\frac{21}{83}, -\frac{14}{83}, \frac{42}{83}, -\frac{28}{83}, \frac{7}{83}, \frac{28}{83}, -\frac{7}{83})$ $+ \frac{7}{83}\sqrt{58}e^3 \otimes e_7 + \frac{7}{83}\sqrt{82}e^1 \otimes e_4$	{1267, 157, 23456, 34}
732:2	$0, 0, 0, 0, \frac{8}{47}\sqrt{2}e^{12}, \frac{4}{47}\sqrt{78}e^{15}, \frac{4}{47}\sqrt{82}e^{13} + \frac{4}{47}\sqrt{34}e^{25}$	$(-\frac{1}{3}, \frac{50}{141}, \frac{100}{141}, \frac{29}{141}, \frac{1}{47}, -\frac{44}{141}, \frac{53}{141})$ $+ \frac{16}{47}\sqrt{14}e^3 \otimes e_6$	{1467, 167, 456, 56}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
732:2	$0, 0, 0, 0, \frac{22}{347}\sqrt{46}e^{12}, \frac{22}{347}\sqrt{70}e^{15}, \frac{11}{347}\sqrt{119}e^{13} + \frac{33}{347}\sqrt{3}e^{25}$	$(\frac{44}{347}, -\frac{77}{694}, -\frac{77}{347}, \frac{341}{694}, \frac{11}{694}, \frac{99}{694}, -\frac{33}{347})$ $+ \frac{11}{347}\sqrt{353}e^1 \otimes e_3 + \frac{33}{347}\sqrt{29}e^4 \otimes e_6$	{126, 145}
732:2	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{15}, \frac{1}{4}\sqrt{5}e^{13} + \frac{1}{4}e^{25}$	$(-\frac{3}{16}, \frac{1}{8}, \frac{1}{4}, \frac{9}{16}, -\frac{1}{16}, -\frac{1}{4}, \frac{1}{16})$ $+ \frac{1}{4}\sqrt{7}e^3 \otimes e_6 + \frac{1}{4}\sqrt{7}e^4 \otimes e_7$	{12345, 237}
732:2	$0, 0, 0, 0, \frac{8}{447}\sqrt{1426}e^{12}, \frac{4}{447}\sqrt{6302}e^{15}, \frac{20}{447}\sqrt{138}e^{13} + \frac{4}{447}\sqrt{1794}e^{25}$	$(\frac{37}{149}, \frac{10}{447}, \frac{20}{447}, -\frac{257}{447}, \frac{121}{447}, \frac{232}{447}, \frac{131}{447})$ $+ \frac{32}{447}\sqrt{253}e^1 \otimes e_4$	{1236, 135, 234567, 347}
732:2	$0, 0, 0, 0, \frac{8}{47}\sqrt{2}e^{12}, \frac{4}{47}\sqrt{34}e^{15}, \frac{4}{47}\sqrt{82}e^{13} + \frac{4}{47}\sqrt{78}e^{25}$	$(\frac{3}{47}, -\frac{2}{47}, -\frac{4}{47}, 1, \frac{1}{47}, \frac{4}{47}, -\frac{1}{47})$ $+ \frac{16}{47}\sqrt{14}e^4 \otimes e_7$	{123456, 134, 2367, 357}
732:2	$0, 0, 0, 0, \frac{1}{17}\sqrt{41}e^{12}, \frac{1}{34}\sqrt{123}e^{15}, \frac{1}{34}\sqrt{1066}e^{13} + \frac{1}{34}\sqrt{123}e^{25}$	$(-\frac{5}{68}, \frac{21}{68}, \frac{21}{34}, -\frac{10}{17}, \frac{4}{17}, \frac{11}{68}, \frac{37}{68})$ $+ \frac{3}{34}\sqrt{246}e^3 \otimes e_4$	{124567, 147, 246, 45}
732:2	$0, 0, 0, 0, \frac{3}{11}\sqrt{3}e^{12}, \frac{1}{11}\sqrt{13}e^{15}, \frac{1}{11}\sqrt{15}e^{13} + \frac{1}{11}\sqrt{13}e^{25}$	$(\frac{2}{11}, -\frac{1}{22}, -\frac{1}{11}, -\frac{7}{22}, \frac{3}{22}, \frac{7}{11}, \frac{1}{11})$ $+ \frac{1}{11}\sqrt{29}e^1 \otimes e_3 + \frac{1}{11}\sqrt{29}e^2 \otimes e_4$	{2356, 34}
732:2	$0, 0, 0, 0, \frac{4}{427}\sqrt{2667}e^{12}, \frac{4}{427}\sqrt{9906}e^{15}, \frac{2}{427}\sqrt{7874}e^{13} + \frac{4}{427}\sqrt{635}e^{25}$	$(-\frac{72}{427}, \frac{9}{61}, \frac{18}{61}, 1, -\frac{9}{427}, -\frac{81}{427}, \frac{54}{427})$ $+ \frac{4}{427}\sqrt{21082}e^4 \otimes e_6$	{126, 145, 2567, 47}
732:2	$0, 0, 0, 0, \frac{4}{35}\sqrt{5}e^{12}, \frac{1}{35}\sqrt{210}e^{15}, \frac{1}{35}\sqrt{170}e^{13} + \frac{2}{7}e^{25}$	$(-\frac{1}{14}, \frac{1}{7}, \frac{2}{7}, -\frac{5}{14}, \frac{1}{14}, 0, \frac{3}{14})$ $+ \frac{1}{35}\sqrt{290}e^3 \otimes e_6 + \frac{1}{35}\sqrt{330}e^1 \otimes e_4$	{135, 347}
732:3	$0, 0, 0, 0, \frac{3}{22}\sqrt{2}e^{12}, \frac{1}{22}\sqrt{30}e^{15}, \frac{1}{22}\sqrt{2}e^{25} + \frac{1}{22}\sqrt{30}e^{34}$	$(\frac{3}{44}, -\frac{1}{22}, \frac{2}{11}, -\frac{9}{44}, \frac{1}{44}, \frac{1}{11}, -\frac{1}{44})$ $+ \frac{1}{22}\sqrt{34}e^3 \otimes e_6 - \frac{1}{22}\sqrt{42}e^1 \otimes e_7$	{126, 1345, 24567, 37}
732:3	$0, 0, 0, 0, \frac{3}{22}\sqrt{2}e^{12}, \frac{1}{22}\sqrt{30}e^{15}, \frac{1}{22}\sqrt{2}e^{25} + \frac{1}{22}\sqrt{30}e^{34}$	$(\frac{3}{44}, -\frac{1}{22}, \frac{2}{11}, -\frac{9}{44}, \frac{1}{44}, \frac{1}{11}, -\frac{1}{44})$ $+ \frac{1}{22}\sqrt{34}e^3 \otimes e_6 + \frac{1}{22}\sqrt{42}e^1 \otimes e_7$	{126, 1345, 24567, 37}
732:3	$0, 0, 0, 0, \frac{10}{167}\sqrt{70}e^{12}, \frac{20}{167}\sqrt{15}e^{15}, \frac{10}{167}\sqrt{30}e^{25} + \frac{20}{167}\sqrt{15}e^{34}$	$(\frac{16}{167}, \frac{22}{167}, \frac{155}{167}, -\frac{95}{167}, \frac{38}{167}, \frac{54}{167}, \frac{60}{167})$ $+ \frac{250}{167}e^3 \otimes e_4$	{12367, 12467, 1357, 1457}
732:3	$0, 0, 0, 0, \frac{8}{173}\sqrt{51}e^{12}, \frac{4}{173}\sqrt{1173}e^{15}, \frac{68}{173}\sqrt{2}e^{25} + \frac{4}{173}\sqrt{1173}e^{34}$	$(-\frac{45}{173}, \frac{58}{173}, \frac{104}{173}, -\frac{33}{173}, \frac{13}{173}, -\frac{32}{173}, \frac{71}{173})$ $+ \frac{4}{173}\sqrt{2329}e^3 \otimes e_6$	{126, 1345, 24567, 37}
732:4	$0, 0, 0, 0, \frac{14}{53}\sqrt{5}e^{12}, \frac{7}{53}\sqrt{15}e^{15} - \frac{7}{53}\sqrt{39}e^{23}, \frac{7}{53}\sqrt{39}e^{13} + \frac{7}{53}\sqrt{15}e^{25}$	$(\frac{7}{53}, \frac{7}{53}, \frac{14}{53}, -\frac{35}{53}, \frac{14}{53}, \frac{21}{53}, \frac{21}{53})$ $+ \frac{14}{53}\sqrt{22}e^3 \otimes e_4$	{124567, 147, 45, 124567, 147, 45}
732:4	$0, 0, 0, 0, \frac{14}{53}\sqrt{5}e^{12}, \frac{7}{53}\sqrt{15}e^{15} + \frac{7}{53}\sqrt{39}e^{23}, \frac{7}{53}\sqrt{39}e^{13} + \frac{7}{53}\sqrt{15}e^{25}$	$(\frac{7}{53}, \frac{7}{53}, \frac{14}{53}, -\frac{35}{53}, \frac{14}{53}, \frac{21}{53}, \frac{21}{53})$ $+ \frac{14}{53}\sqrt{22}e^3 \otimes e_4$	{124567, 147, 45, 124567, 147, 45}
732:4	$0, 0, 0, 0, \frac{52}{233}\sqrt{10}e^{12}, \frac{13}{233}\sqrt{167}e^{15} - \frac{13}{233}\sqrt{101}e^{23}, \frac{13}{233}\sqrt{87}e^{13} + \frac{13}{233}\sqrt{21}e^{25}$	$(\frac{26}{233}, \frac{26}{233}, \frac{52}{233}, -\frac{143}{233}, \frac{52}{233}, \frac{78}{233}, \frac{78}{233})$ $+ \frac{26}{233}\sqrt{94}e^1 \otimes e_4$	{1236, 135, 234567, 347, 1236, 135, 234567, 347}
732:4	$0, 0, 0, 0, \frac{52}{233}\sqrt{10}e^{12}, \frac{13}{233}\sqrt{167}e^{15} + \frac{13}{233}\sqrt{101}e^{23}, \frac{13}{233}\sqrt{87}e^{13} + \frac{13}{233}\sqrt{21}e^{25}$	$(\frac{26}{233}, \frac{26}{233}, \frac{52}{233}, -\frac{143}{233}, \frac{52}{233}, \frac{78}{233}, \frac{78}{233})$ $+ \frac{26}{233}\sqrt{94}e^1 \otimes e_4$	{1236, 135, 234567, 347, 1236, 135, 234567, 347}
732:5	$0, 0, 0, 0, \frac{3}{37}\sqrt{2}e^{12}, \frac{3}{37}\sqrt{38}e^{13} + \frac{3}{37}\sqrt{78}e^{25}, \frac{15}{37}\sqrt{2}e^{15} + \frac{3}{37}\sqrt{78}e^{34}$	$(\frac{9}{37}, -\frac{6}{37}, -\frac{12}{37}, \frac{24}{37}, \frac{3}{37}, -\frac{3}{37}, \frac{12}{37})$ $+ \frac{3}{37}\sqrt{178}e^4 \otimes e_6$	{126, 47}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
732:5	$0, 0, 0, 0, \frac{11}{101}\sqrt{14}e^{12}, \frac{11}{101}\sqrt{82}e^{13} + \frac{22}{101}\sqrt{3}e^{25}, \frac{11}{101}\sqrt{6}e^{15} + \frac{22}{101}\sqrt{3}e^{34}$	$(-\frac{11}{101}, \frac{33}{101}, \frac{66}{101}, -\frac{55}{101}, \frac{22}{101}, \frac{55}{101}, \frac{11}{101})$ $+ \frac{99}{101}\sqrt{2}e^3 \otimes e_4$	{146, 45}
732:6	$0, 0, 0, 0, \frac{7}{83}\sqrt{94}e^{12}, \frac{14}{83}\sqrt{22}e^{15} + \frac{7}{83}\sqrt{58}e^{23}, \frac{7}{83}\sqrt{58}e^{14} + \frac{21}{83}\sqrt{2}e^{25}$	$(\frac{21}{83}, -\frac{14}{83}, \frac{42}{83}, -\frac{28}{83}, \frac{7}{83}, \frac{28}{83}, -\frac{7}{83})$ $+ \frac{14}{83}\sqrt{35}e^1 \otimes e_4$	{23456, 34}
732:6	$0, 0, 0, 0, \frac{7}{83}\sqrt{46}e^{12}, \frac{14}{83}\sqrt{13}e^{15} + \frac{7}{83}\sqrt{82}e^{23}, \frac{7}{83}\sqrt{82}e^{14} + \frac{21}{83}\sqrt{2}e^{25}$	$(\frac{21}{83}, -\frac{14}{83}, \frac{42}{83}, -\frac{28}{83}, \frac{7}{83}, \frac{28}{83}, -\frac{7}{83})$ $+ \frac{14}{83}\sqrt{35}e^3 \otimes e_7$	{2467, 457}
731:1	$0, 0, 0, 0, \frac{2}{181}\sqrt{191}e^{12}, \frac{2}{181}\sqrt{4393}e^{13}, \frac{3}{181}\sqrt{1910}e^{15}$	$(\frac{92}{181}, -\frac{99}{181}, -\frac{6}{181}, \frac{40}{181}, -\frac{7}{181}, \frac{86}{181}, \frac{85}{181})$ $+ \frac{1}{181}\sqrt{53862}e^1 \otimes e_2$	{1347, 137, 1467, 167, 2, 2346, 236, 24}
731:1	$0, 0, 0, 0, \frac{6}{89}\sqrt{53}e^{12}, \frac{2}{89}\sqrt{371}e^{13}, \frac{8}{89}\sqrt{106}e^{15}$	$(-\frac{14}{89}, \frac{11}{89}, \frac{27}{89}, 1, -\frac{3}{89}, \frac{13}{89}, -\frac{17}{89})$ $+ \frac{2}{89}\sqrt{3657}e^4 \otimes e_7$	{12367, 127, 13456, 145, 2357, 2567, 34, 46}
731:1	$0, 0, 0, 0, \frac{8}{189}\sqrt{39}e^{12}, \frac{8}{189}\sqrt{186}e^{13}, \frac{32}{189}\sqrt{3}e^{15}$	$(\frac{5}{21}, -\frac{17}{63}, -\frac{13}{63}, \frac{34}{63}, -\frac{2}{63}, \frac{2}{63}, \frac{13}{63})$ $+ \frac{8}{189}\sqrt{237}e^4 \otimes e_6 + \frac{8}{63}\sqrt{29}e^1 \otimes e_2$	{1347, 167, 236, 24}
731:1	$0, 0, 0, 0, \frac{1}{19}\sqrt{46}e^{12}, \frac{1}{19}\sqrt{322}e^{13}, \frac{1}{19}\sqrt{46}e^{15}$	$(-\frac{1}{19}, \frac{5}{19}, \frac{12}{19}, -\frac{11}{19}, \frac{4}{19}, \frac{11}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{690}e^3 \otimes e_4$	{12357, 124567, 13, 146, 2367, 247, 356, 45}
731:1	$0, 0, 0, 0, \frac{32}{189}\sqrt{3}e^{12}, \frac{8}{189}\sqrt{186}e^{13}, \frac{8}{189}\sqrt{39}e^{15}$	$(-\frac{2}{9}, \frac{94}{189}, \frac{40}{189}, -\frac{8}{27}, \frac{52}{189}, -\frac{2}{189}, \frac{10}{189})$ $+ \frac{8}{189}\sqrt{237}e^3 \otimes e_4 + \frac{8}{63}\sqrt{29}e^2 \otimes e_6$	{123, 14567, 245, 367}
731:1	$0, 0, 0, 0, \frac{3}{181}\sqrt{1910}e^{12}, \frac{2}{181}\sqrt{4393}e^{13}, \frac{2}{181}\sqrt{191}e^{15}$	$(-\frac{49}{181}, \frac{136}{181}, -\frac{6}{181}, \frac{40}{181}, \frac{87}{181}, -\frac{55}{181}, \frac{38}{181})$ $+ \frac{1}{181}\sqrt{53862}e^2 \otimes e_6$	{123, 1234, 14567, 1567, 245, 25, 3467, 367}
731:1	$0, 0, 0, 0, \frac{8}{189}\sqrt{39}e^{12}, \frac{8}{189}\sqrt{186}e^{13}, \frac{32}{189}\sqrt{3}e^{15}$	$(\frac{5}{21}, -\frac{17}{63}, \frac{40}{189}, -\frac{8}{27}, -\frac{2}{63}, \frac{85}{189}, \frac{13}{63})$ $+ \frac{8}{189}\sqrt{237}e^3 \otimes e_4 + \frac{8}{63}\sqrt{29}e^1 \otimes e_2$	{137, 1467, 236, 24}
731:1	$0, 0, 0, 0, \frac{6}{53}\sqrt{17}e^{12}, \frac{2}{53}\sqrt{85}e^{13}, \frac{4}{53}\sqrt{34}e^{15}$	$(-\frac{14}{53}, \frac{23}{53}, \frac{3}{53}, \frac{29}{53}, \frac{9}{53}, -\frac{11}{53}, -\frac{5}{53})$ $+ \frac{2}{53}\sqrt{357}e^4 \otimes e_7 + \frac{2}{53}\sqrt{102}e^2 \otimes e_6$	{1237, 1456, 257, 346}
731:1	$0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{1}{15}\sqrt{30}e^{13}, \frac{2}{15}\sqrt{10}e^{15}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0)$ $+ \frac{1}{15}\sqrt{70}e^1 \otimes e_4 + \frac{2}{15}\sqrt{15}e^3 \otimes e_7$	{1267, 135, 2457, 346}
731:1	$0, 0, 0, 0, \frac{2}{181}\sqrt{191}e^{12}, \frac{2}{181}\sqrt{4393}e^{13}, \frac{3}{181}\sqrt{1910}e^{15}$	$(-\frac{49}{181}, \frac{42}{181}, \frac{135}{181}, \frac{40}{181}, -\frac{7}{181}, \frac{86}{181}, -\frac{56}{181})$ $+ \frac{1}{181}\sqrt{53862}e^3 \otimes e_7$	{12345, 1235, 1467, 167, 2346, 236, 457, 57}
731:1	$0, 0, 0, 0, \frac{4}{193}\sqrt{442}e^{12}, \frac{2}{193}\sqrt{1190}e^{13}, \frac{4}{193}\sqrt{646}e^{15}$	$(\frac{28}{193}, -\frac{29}{193}, -\frac{40}{193}, \frac{95}{193}, -\frac{1}{193}, -\frac{12}{193}, \frac{27}{193})$ $+ \frac{24}{193}\sqrt{17}e^4 \otimes e_7 + \frac{28}{193}\sqrt{17}e^1 \otimes e_3$	{127, 145, 2357, 34}
731:1	$0, 0, 0, 0, \frac{1}{40}\sqrt{59}e^{12}, \frac{1}{160}\sqrt{5074}e^{13}, \frac{1}{160}\sqrt{4602}e^{15}$	$(\frac{31}{320}, -\frac{87}{320}, \frac{93}{320}, \frac{19}{160}, -\frac{7}{40}, \frac{31}{80}, -\frac{5}{64})$ $+ \frac{1}{160}\sqrt{8319}e^1 \otimes e_2 + \frac{1}{160}\sqrt{8319}e^3 \otimes e_7$	{1467, 167, 2346, 236}
731:1	$0, 0, 0, 0, \frac{2}{287}\sqrt{298}e^{12}, \frac{2}{287}\sqrt{1937}e^{13}, \frac{1}{287}\sqrt{25926}e^{15}$	$(\frac{52}{287}, -\frac{97}{287}, \frac{12}{287}, \frac{156}{287}, -\frac{45}{287}, \frac{64}{287}, \frac{1}{41})$ $+ \frac{1}{287}\sqrt{39038}e^1 \otimes e_2 + \frac{2}{287}\sqrt{8791}e^4 \otimes e_7$	{1345, 1456, 23567, 257}
731:1	$0, 0, 0, 0, \frac{4}{53}\sqrt{34}e^{12}, \frac{2}{53}\sqrt{85}e^{13}, \frac{6}{53}\sqrt{17}e^{15}$	$(-\frac{14}{53}, \frac{21}{53}, \frac{27}{53}, -\frac{13}{53}, \frac{7}{53}, \frac{13}{53}, -\frac{7}{53})$ $+ \frac{2}{53}\sqrt{357}e^2 \otimes e_4 + \frac{4}{53}\sqrt{102}e^3 \otimes e_7$	{1267, 1345, 257, 346}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:1	$0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{30}e^{13}, \frac{2}{15}\sqrt{5}e^{15}$	$(0, \frac{4}{15}, -\frac{1}{15}, -\frac{1}{3}, \frac{4}{15}, -\frac{1}{15}, \frac{4}{15})$ $+ \frac{1}{15}\sqrt{70}e^1 \otimes e_4 + \frac{2}{15}\sqrt{15}e^2 \otimes e_6$	{1237, 156, 2457, 346}
731:1	$0, 0, 0, 0, \frac{4}{193}\sqrt{646}e^{12}, \frac{2}{193}\sqrt{1190}e^{13}, \frac{4}{193}\sqrt{442}e^{15}$	$(\frac{28}{193}, \frac{19}{193}, -\frac{40}{193}, -\frac{49}{193}, \frac{47}{193}, -\frac{12}{193}, \frac{75}{193})$ $+ \frac{24}{193}\sqrt{17}e^2 \otimes e_4 + \frac{28}{193}\sqrt{17}e^1 \otimes e_3$	{127, 145, 2357, 34}
731:1	$0, 0, 0, 0, \frac{8}{89}\sqrt{106}e^{12}, \frac{2}{89}\sqrt{371}e^{13}, \frac{6}{89}\sqrt{53}e^{15}$	$(-\frac{14}{89}, \frac{57}{89}, \frac{27}{89}, -\frac{49}{89}, \frac{43}{89}, \frac{13}{89}, \frac{29}{89})$ $+ \frac{2}{89}\sqrt{3657}e^2 \otimes e_4$	{12367, 127, 13456, 145, 2357, 2567, 34, 46}
731:1	$0, 0, 0, 0, \frac{6}{109}\sqrt{33}e^{12}, \frac{6}{109}\sqrt{87}e^{13}, \frac{6}{109}\sqrt{33}e^{15}$	$(-\frac{36}{109}, \frac{51}{109}, \frac{33}{109}, \frac{15}{109}, \frac{15}{109}, -\frac{3}{109}, -\frac{21}{109})$ $+ \frac{6}{109}\sqrt{141}e^2 \otimes e_6 + \frac{6}{109}\sqrt{141}e^3 \otimes e_7$	{2457, 257, 346, 36}
731:1	$0, 0, 0, 0, \frac{1}{19}\sqrt{46}e^{12}, \frac{1}{19}\sqrt{322}e^{13}, \frac{1}{19}\sqrt{46}e^{15}$	$(-\frac{1}{19}, \frac{5}{19}, -\frac{3}{19}, 1, \frac{4}{19}, -\frac{4}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{690}e^4 \otimes e_6$	{123457, 12567, 134, 16, 2367, 247, 356, 45}
731:1	$0, 0, 0, 0, \frac{4}{5}e^{12}, \frac{2}{5}\sqrt{2}e^{13}, \frac{4}{5}e^{15}$	$(\frac{2}{5}, -\frac{1}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{1}{5}, 0, \frac{3}{5})$ $+ \frac{4}{5}\sqrt{2}e^1 \otimes e_3$	{1247, 127, 145, 15, 23457, 2357, 3, 34}
731:1	$0, 0, 0, 0, \frac{8}{189}\sqrt{39}e^{12}, \frac{8}{189}\sqrt{186}e^{13}, \frac{32}{189}\sqrt{3}e^{15}$	$(-\frac{2}{9}, \frac{4}{21}, \frac{16}{63}, \frac{34}{63}, -\frac{2}{63}, \frac{2}{63}, -\frac{16}{63})$ $+ \frac{8}{189}\sqrt{237}e^4 \otimes e_6 + \frac{8}{63}\sqrt{29}e^3 \otimes e_7$	{12345, 167, 236, 457}
731:1	$0, 0, 0, 0, \frac{2}{21}\sqrt{53}e^{12}, \frac{1}{21}\sqrt{106}e^{13}, \frac{2}{21}\sqrt{53}e^{15}$	$(\frac{2}{7}, -\frac{4}{63}, \frac{5}{63}, -\frac{5}{9}, \frac{2}{9}, \frac{23}{63}, \frac{32}{63})$ $+ \frac{1}{9}\sqrt{106}e^1 \otimes e_4$	{1237, 1267, 135, 156, 234567, 2457, 346, 4}
731:1	$0, 0, 0, 0, \frac{3}{40}\sqrt{51}e^{12}, \frac{1}{40}\sqrt{17}e^{13}, \frac{17}{40}e^{15}$	$(\frac{7}{80}, \frac{7}{40}, -\frac{27}{80}, \frac{11}{80}, \frac{21}{80}, -\frac{1}{4}, \frac{7}{20})$ $+ \frac{1}{40}\sqrt{510}e^2 \otimes e_6 + \frac{1}{40}\sqrt{663}e^1 \otimes e_3$	{1247, 127, 23457, 2357}
731:2	$0, 0, 0, 0, \frac{4}{69}\sqrt{183}e^{12}, \frac{1}{69}\sqrt{366}e^{13}, \frac{1}{69}\sqrt{2806}e^{25}$	$(-\frac{2}{23}, \frac{22}{69}, \frac{6}{23}, -\frac{13}{23}, \frac{16}{69}, \frac{4}{23}, \frac{38}{69})$ $+ \frac{2}{23}\sqrt{183}e^2 \otimes e_4$	{12367, 127, 134567, 1457, 235, 256, 34, 46}
731:2	$0, 0, 0, 0, \frac{16}{687}\sqrt{66}e^{12}, \frac{16}{229}\sqrt{23}e^{13}, \frac{16}{687}\sqrt{229}e^{25}$	$(-\frac{61}{229}, \frac{110}{687}, \frac{55}{229}, \frac{30}{229}, -\frac{73}{687}, -\frac{6}{229}, \frac{37}{687})$ $+ \frac{16}{229}\sqrt{35}e^2 \otimes e_6 + \frac{16}{687}\sqrt{282}e^3 \otimes e_7$	{14567, 1567, 346, 36}
731:2	$0, 0, 0, 0, \frac{1}{69}\sqrt{366}e^{12}, \frac{4}{69}\sqrt{183}e^{13}, \frac{1}{69}\sqrt{2806}e^{25}$	$(-\frac{2}{23}, -\frac{5}{69}, \frac{15}{23}, \frac{5}{23}, -\frac{11}{69}, \frac{13}{23}, -\frac{16}{69})$ $+ \frac{2}{23}\sqrt{183}e^3 \otimes e_7$	{12345, 1235, 13, 134, 247, 27, 457, 57}
731:2	$0, 0, 0, 0, \frac{1}{299}\sqrt{23246}e^{12}, \frac{1}{299}\sqrt{1970}e^{13}, \frac{1}{299}\sqrt{22458}e^{25}$	$(\frac{118}{299}, -\frac{72}{299}, -\frac{79}{299}, \frac{171}{299}, \frac{2}{13}, \frac{3}{23}, -\frac{2}{23})$ $+ \frac{16}{299}\sqrt{197}e^1 \otimes e_3 + \frac{1}{299}\sqrt{50038}e^4 \otimes e_7$	{127, 157, 2345, 34}
731:2	$0, 0, 0, 0, \frac{8}{41}\sqrt{6}e^{12}, \frac{4}{41}\sqrt{10}e^{13}, \frac{12}{41}\sqrt{2}e^{25}$	$(\frac{3}{41}, \frac{6}{41}, -\frac{13}{41}, \frac{6}{41}, \frac{9}{41}, -\frac{10}{41}, \frac{15}{41})$ $+ \frac{4}{41}\sqrt{42}e^2 \otimes e_6 + \frac{8}{41}\sqrt{7}e^1 \otimes e_3$	{14567, 1567, 346, 36}
731:2	$0, 0, 0, 0, \frac{4}{309}\sqrt{381}e^{12}, \frac{1}{309}\sqrt{24130}e^{13}, \frac{2}{309}\sqrt{3937}e^{25}$	$(\frac{16}{103}, -\frac{14}{103}, \frac{91}{309}, -\frac{79}{309}, \frac{2}{103}, \frac{139}{309}, -\frac{12}{103})$ $+ \frac{1}{309}\sqrt{31242}e^1 \otimes e_4 + \frac{2}{309}\sqrt{9017}e^3 \otimes e_7$	{1267, 1567, 23456, 346}
731:2	$0, 0, 0, 0, \frac{4}{199}\sqrt{239}e^{12}, \frac{1}{199}\sqrt{32982}e^{13}, \frac{1}{199}\sqrt{7170}e^{25}$	$(-\frac{16}{199}, \frac{38}{199}, \frac{130}{199}, -\frac{109}{199}, \frac{22}{199}, \frac{114}{199}, \frac{60}{199})$ $+ \frac{2}{199}\sqrt{18403}e^3 \otimes e_4$	{1235, 12456, 13, 146, 2367, 247, 3567, 457}
731:2	$0, 0, 0, 0, \frac{16}{181}\sqrt{26}e^{12}, \frac{16}{181}\sqrt{26}e^{13}, \frac{48}{181}e^{25}$	$(\frac{52}{181}, -\frac{8}{181}, -\frac{76}{181}, \frac{104}{181}, \frac{44}{181}, -\frac{24}{181}, \frac{36}{181})$ $+ \frac{16}{181}\sqrt{77}e^1 \otimes e_3 + \frac{16}{181}\sqrt{77}e^4 \otimes e_6$	{1267, 1567, 2356, 36}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:2	$0, 0, 0, 0, \frac{1}{58}\sqrt{435}e^{12}, \frac{1}{58}\sqrt{435}e^{13}, \frac{3}{29}\sqrt{10}e^{25}$	$(\frac{1}{58}, \frac{19}{116}, -\frac{13}{116}, -\frac{7}{29}, \frac{21}{116}, -\frac{11}{116}, \frac{10}{29})$ $+ \frac{1}{29}\sqrt{165}e^1 \otimes e_4 + \frac{1}{29}\sqrt{210}e^2 \otimes e_6$	{1237, 1567, 245, 346}
731:2	$0, 0, 0, 0, \frac{8}{39}\sqrt{7}e^{12}, \frac{4}{39}\sqrt{6}e^{13}, \frac{16}{39}e^{25}$	$(\frac{3}{13}, \frac{2}{39}, -\frac{7}{39}, -\frac{14}{39}, \frac{11}{39}, \frac{2}{39}, \frac{1}{3})$ $+ \frac{4}{39}\sqrt{30}e^1 \otimes e_3 + \frac{4}{39}\sqrt{38}e^2 \otimes e_4$	{127, 1457, 235, 34}
731:2	$0, 0, 0, 0, \frac{4}{39}\sqrt{6}e^{12}, \frac{8}{39}\sqrt{7}e^{13}, \frac{16}{39}e^{25}$	$(-\frac{2}{13}, 0, \frac{10}{39}, \frac{20}{39}, -\frac{2}{13}, \frac{4}{39}, -\frac{2}{13})$ $+ \frac{4}{39}\sqrt{30}e^4 \otimes e_6 + \frac{4}{39}\sqrt{38}e^3 \otimes e_7$	{12345, 134, 247, 457}
731:2	$0, 0, 0, 0, \frac{1}{51}\sqrt{366}e^{12}, \frac{1}{51}\sqrt{366}e^{13}, \frac{1}{51}\sqrt{2074}e^{25}$	$(\frac{2}{17}, -\frac{8}{51}, \frac{3}{17}, 1, -\frac{2}{51}, \frac{5}{17}, -\frac{10}{51})$ $+ \frac{1}{51}\sqrt{4758}e^4 \otimes e_7$	{1237, 1267, 1357, 1567, 23456, 245, 346, 4}
731:2	$0, 0, 0, 0, \frac{1}{199}\sqrt{32982}e^{12}, \frac{4}{199}\sqrt{239}e^{13}, \frac{1}{199}\sqrt{7170}e^{25}$	$(\frac{138}{199}, -\frac{39}{199}, -\frac{101}{199}, \frac{45}{199}, \frac{99}{199}, \frac{37}{199}, \frac{60}{199})$ $+ \frac{2}{199}\sqrt{18403}e^1 \otimes e_3$	{1247, 127, 1457, 157, 2345, 235, 3, 34}
731:2	$0, 0, 0, 0, \frac{3}{26}\sqrt{39}e^{12}, \frac{3}{26}\sqrt{39}e^{13}, \frac{3}{13}\sqrt{3}e^{25}$	$(\frac{1}{2}, -\frac{5}{52}, -\frac{1}{52}, -\frac{7}{13}, \frac{21}{52}, \frac{25}{52}, \frac{4}{13})$ $+ \frac{3}{13}\sqrt{30}e^1 \otimes e_4$	{1237, 1267, 1357, 1567, 23456, 245, 346, 4}
731:2	$0, 0, 0, 0, \frac{1}{55}\sqrt{354}e^{12}, \frac{1}{55}\sqrt{354}e^{13}, \frac{1}{165}\sqrt{6490}e^{25}$	$(-\frac{2}{11}, \frac{26}{165}, -\frac{1}{55}, \frac{27}{55}, -\frac{4}{165}, -\frac{1}{5}, \frac{2}{15})$ $+ \frac{1}{165}\sqrt{6726}e^4 \otimes e_7 + \frac{2}{165}\sqrt{2478}e^2 \otimes e_6$	{1237, 1567, 245, 346}
731:2	$0, 0, 0, 0, \frac{4}{41}\sqrt{10}e^{12}, \frac{8}{41}\sqrt{6}e^{13}, \frac{12}{41}\sqrt{2}e^{25}$	$(-\frac{11}{41}, \frac{13}{41}, \frac{8}{41}, -\frac{8}{41}, \frac{2}{41}, -\frac{3}{41}, \frac{15}{41})$ $+ \frac{4}{41}\sqrt{42}e^2 \otimes e_6 + \frac{8}{41}\sqrt{7}e^3 \otimes e_4$	{1237, 14567, 245, 36}
731:2	$0, 0, 0, 0, \frac{1}{6}\sqrt{13}e^{12}, \frac{1}{6}\sqrt{13}e^{13}, \frac{1}{9}\sqrt{39}e^{25}$	$(-\frac{5}{18}, \frac{5}{12}, -\frac{1}{36}, \frac{2}{9}, \frac{5}{36}, -\frac{11}{36}, \frac{5}{9})$ $+ \frac{1}{9}\sqrt{91}e^2 \otimes e_6$	{12347, 1237, 14567, 1567, 245, 25, 346, 36}
731:2	$0, 0, 0, 0, \frac{4}{21}\sqrt{3}e^{12}, \frac{4}{21}\sqrt{3}e^{13}, \frac{4}{21}\sqrt{7}e^{25}$	$(-\frac{1}{7}, \frac{2}{21}, \frac{3}{7}, -\frac{2}{7}, -\frac{1}{21}, \frac{2}{7}, \frac{1}{21})$ $+ \frac{4}{7}e^2 \otimes e_4 + \frac{4}{7}e^3 \otimes e_7$	{1267, 14567, 2356, 346}
731:2	$0, 0, 0, 0, \frac{4}{199}\sqrt{239}e^{12}, \frac{1}{199}\sqrt{32982}e^{13}, \frac{1}{199}\sqrt{7170}e^{25}$	$(-\frac{16}{199}, \frac{38}{199}, -\frac{24}{199}, 1, \frac{22}{199}, -\frac{40}{199}, \frac{60}{199})$ $+ \frac{2}{199}\sqrt{18403}e^4 \otimes e_6$	{12345, 1256, 134, 16, 2367, 247, 3567, 457}
731:3	$0, 0, 0, 0, \frac{2}{39}\sqrt{51}e^{12}, \frac{2}{39}\sqrt{221}e^{34}, \frac{2}{39}\sqrt{221}e^{15}$	$(-\frac{7}{39}, \frac{2}{13}, \frac{2}{3}, -\frac{4}{39}, -\frac{1}{39}, \frac{22}{39}, -\frac{8}{39})$ $+ \frac{2}{39}\sqrt{510}e^3 \otimes e_7$	{12467, 127, 1345, 1356, 24567, 257, 34, 36}
731:3	$0, 0, 0, 0, \frac{2}{75}\sqrt{267}e^{12}, \frac{2}{75}\sqrt{267}e^{34}, \frac{1}{15}\sqrt{178}e^{15}$	$(\frac{44}{75}, -\frac{3}{5}, \frac{4}{25}, \frac{4}{25}, -\frac{1}{75}, \frac{8}{25}, \frac{43}{75})$ $+ \frac{1}{75}\sqrt{10146}e^1 \otimes e_2$	{1345, 1356, 15, 23457, 23567, 257}
731:3	$0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}, \frac{2}{23}\sqrt{30}e^{34}, \frac{2}{23}\sqrt{30}e^{15}$	$(\frac{6}{23}, -\frac{2}{23}, \frac{3}{23}, -\frac{7}{23}, \frac{4}{23}, -\frac{4}{23}, \frac{10}{23})$ $+ \frac{10}{23}e^3 \otimes e_4 + \frac{2}{23}\sqrt{70}e^1 \otimes e_6$	{23567, 24567, 36, 46}
731:3	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{4}{87}\sqrt{29}e^{34}, \frac{4}{87}\sqrt{29}e^{15}$	$(\frac{7}{87}, -\frac{2}{29}, \frac{16}{87}, -\frac{17}{87}, \frac{1}{87}, -\frac{1}{87}, \frac{8}{87})$ $+ \frac{4}{87}\sqrt{33}e^3 \otimes e_7 + \frac{4}{87}\sqrt{42}e^1 \otimes e_6$	{127, 1345, 24567, 36}
731:3	$0, 0, 0, 0, \frac{2}{47}\sqrt{69}e^{12}, \frac{2}{141}\sqrt{1081}e^{34}, \frac{2}{47}\sqrt{69}e^{15}$	$(-\frac{11}{47}, \frac{18}{47}, \frac{34}{141}, -\frac{26}{141}, \frac{7}{47}, \frac{8}{141}, -\frac{4}{47})$ $+ \frac{4}{141}\sqrt{345}e^2 \otimes e_6 + \frac{4}{141}\sqrt{345}e^3 \otimes e_7$	{127, 1356, 257, 36}
731:3	$0, 0, 0, 0, \frac{2}{125}\sqrt{157}e^{12}, \frac{2}{375}\sqrt{6123}e^{34}, \frac{1}{75}\sqrt{1570}e^{15}$	$(\frac{52}{375}, -\frac{7}{25}, \frac{52}{125}, -\frac{8}{125}, -\frac{53}{375}, \frac{44}{125}, -\frac{1}{375})$ $+ \frac{1}{375}\sqrt{44274}e^1 \otimes e_2 + \frac{2}{125}\sqrt{1570}e^3 \otimes e_7$	{1345, 1356, 24567, 257}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:3	$0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}e^{34}, \frac{1}{2}e^{15}$	$(\frac{1}{12}, \frac{1}{6}, \frac{11}{12}, -\frac{7}{12}, \frac{1}{4}, \frac{1}{3}, \frac{1}{3})$ $+\frac{3}{2}e^3 \otimes e_4$	{12367, 12467, 1356, 1456, 23567, 24567, 36, 46}
731:3	$0, 0, 0, 0, \frac{1}{28}\sqrt{221}e^{12}, \frac{1}{28}\sqrt{221}e^{34}, \frac{1}{28}\sqrt{51}e^{15}$	$(-\frac{1}{8}, \frac{13}{28}, \frac{13}{56}, -\frac{3}{8}, \frac{19}{56}, -\frac{1}{7}, \frac{3}{14})$ $+\frac{17}{28}e^3 \otimes e_4 + \frac{1}{28}\sqrt{510}e^2 \otimes e_6$	{1356, 1456, 36, 46}
731:3	$0, 0, 0, 0, \frac{1}{9}\sqrt{30}e^{12}, \frac{1}{9}\sqrt{30}e^{34}, \frac{1}{9}\sqrt{30}e^{15}$	$(\frac{1}{3}, -\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{5}{9})$ $+\frac{1}{9}\sqrt{70}e^1 \otimes e_6$	{12347, 127, 1345, 15, 23567, 36}
731:3	$0, 0, 0, 0, \frac{2}{39}\sqrt{221}e^{12}, \frac{2}{39}\sqrt{221}e^{34}, \frac{2}{39}\sqrt{51}e^{15}$	$(-\frac{7}{39}, \frac{2}{3}, -\frac{4}{39}, -\frac{4}{39}, \frac{19}{39}, -\frac{8}{39}, \frac{4}{13})$ $+\frac{2}{39}\sqrt{510}e^2 \otimes e_6$	{12347, 127, 1356, 23457, 257, 36}
731:3	$0, 0, 0, 0, \frac{4}{239}\sqrt{267}e^{12}, \frac{4}{239}\sqrt{267}e^{34}, \frac{10}{239}\sqrt{178}e^{15}$	$(\frac{88}{239}, -\frac{90}{239}, \frac{113}{239}, -\frac{65}{239}, -\frac{2}{239}, \frac{48}{239}, \frac{86}{239})$ $+\frac{178}{239}e^3 \otimes e_4 + \frac{2}{239}\sqrt{10146}e^1 \otimes e_2$	{1356, 1456, 23567, 24567}
731:4	$0, 0, 0, 0, \frac{20}{317}\sqrt{2}e^{12}, \frac{10}{317}\sqrt{186}e^{13}, \frac{10}{317}\sqrt{102}e^{15} + \frac{10}{317}\sqrt{186}e^{23}$	$(-\frac{5}{317}, \frac{85}{317}, -\frac{10}{317}, -\frac{110}{317}, \frac{80}{317}, -\frac{15}{317}, \frac{75}{317})$ $+\frac{10}{317}\sqrt{282}e^2 \otimes e_6 + \frac{10}{317}\sqrt{286}e^3 \otimes e_4$	{146, 247}
731:4	$0, 0, 0, 0, \frac{19}{1091}\sqrt{606}e^{12}, \frac{38}{1091}\sqrt{111}e^{13}, \frac{342}{1091}e^{15} + \frac{76}{1091}\sqrt{5}e^{23}$	$(-\frac{19}{1091}, \frac{304}{1091}, -\frac{38}{1091}, -\frac{380}{1091}, \frac{285}{1091}, -\frac{57}{1091}, \frac{266}{1091})$ $+\frac{38}{1091}\sqrt{262}e^1 \otimes e_4 + \frac{57}{1091}\sqrt{94}e^2 \otimes e_6$	{1237, 346}
731:4	$0, 0, 0, 0, \frac{1}{103}\sqrt{3686}e^{12}, \frac{1}{103}\sqrt{4462}e^{13}, \frac{4}{103}\sqrt{97}e^{15} + \frac{1}{103}\sqrt{4462}e^{23}$	$(-\frac{12}{103}, \frac{61}{103}, -\frac{24}{103}, \frac{22}{103}, \frac{49}{103}, -\frac{36}{103}, \frac{37}{103})$ $+\frac{9}{103}\sqrt{194}e^2 \otimes e_6$	{123, 1234, 3467, 367}
731:4	$0, 0, 0, 0, \frac{1}{32}\sqrt{310}e^{12}, \frac{1}{32}\sqrt{651}e^{13}, \frac{1}{32}\sqrt{310}e^{15} + \frac{1}{32}\sqrt{651}e^{23}$	$(\frac{11}{64}, \frac{1}{64}, \frac{11}{32}, -\frac{5}{8}, \frac{3}{16}, \frac{33}{64}, \frac{23}{64})$ $+\frac{1}{16}\sqrt{403}e^3 \otimes e_4$	{124567, 146, 247, 45}
731:4	$0, 0, 0, 0, \frac{4}{403}\sqrt{5871}e^{12}, \frac{14}{403}\sqrt{206}e^{13}, \frac{8}{403}\sqrt{103}e^{15} + \frac{4}{403}\sqrt{5665}e^{23}$	$(\frac{12}{403}, \frac{179}{403}, \frac{24}{403}, -\frac{233}{403}, \frac{191}{403}, \frac{36}{403}, \frac{203}{403})$ $+\frac{4}{403}\sqrt{16377}e^2 \otimes e_4$	{127, 145, 2567, 46}
731:4	$0, 0, 0, 0, \frac{69}{1079}\sqrt{22}e^{12}, \frac{23}{1079}\sqrt{110}e^{13}, \frac{92}{1079}\sqrt{11}e^{15} + \frac{69}{1079}\sqrt{62}e^{23}$	$(-\frac{92}{1079}, \frac{253}{1079}, -\frac{184}{1079}, \frac{46}{83}, \frac{161}{1079}, -\frac{276}{1079}, \frac{69}{1079})$ $+\frac{184}{1079}\sqrt{14}e^4 \otimes e_7 + \frac{23}{1079}\sqrt{962}e^2 \otimes e_6$	{1456, 257}
731:4	$0, 0, 0, 0, \frac{40}{137}\sqrt{6}e^{12}, \frac{40}{137}\sqrt{3}e^{13}, \frac{40}{137}\sqrt{6}e^{15} + \frac{10}{137}\sqrt{62}e^{23}$	$(\frac{17}{137}, \frac{10}{137}, \frac{34}{137}, -\frac{83}{137}, \frac{27}{137}, \frac{51}{137}, \frac{44}{137})$ $+\frac{20}{137}\sqrt{55}e^1 \otimes e_4$	{1237, 135, 234567, 346}
731:4	$0, 0, 0, 0, \frac{8}{403}\sqrt{103}e^{12}, \frac{14}{403}\sqrt{206}e^{13}, \frac{4}{403}\sqrt{5871}e^{15} + \frac{4}{403}\sqrt{5665}e^{23}$	$(\frac{12}{403}, -\frac{33}{403}, \frac{24}{403}, 1, -\frac{21}{403}, \frac{36}{403}, -\frac{9}{403})$ $+\frac{4}{403}\sqrt{16377}e^4 \otimes e_7$	{127, 145, 2567, 46}
731:4	$0, 0, 0, 0, \frac{4}{43}\sqrt{13}e^{12}, \frac{8}{43}\sqrt{26}e^{13}, \frac{4}{43}\sqrt{13}e^{15} + \frac{2}{43}\sqrt{26}e^{23}$	$(-\frac{3}{43}, \frac{12}{43}, -\frac{6}{43}, 1, \frac{9}{43}, -\frac{9}{43}, \frac{6}{43})$ $+\frac{4}{43}\sqrt{221}e^4 \otimes e_6$	{123457, 134, 2367, 356}
731:5	$0, 0, 0, 0, \frac{1}{17}\sqrt{41}e^{12}, \frac{1}{34}\sqrt{1066}e^{13}, \frac{1}{34}\sqrt{123}e^{15} + \frac{1}{34}\sqrt{123}e^{34}$	$(-\frac{5}{68}, \frac{9}{34}, \frac{45}{68}, -\frac{37}{68}, \frac{13}{68}, \frac{10}{17}, \frac{2}{17})$ $+\frac{3}{34}\sqrt{246}e^3 \otimes e_4$	{13, 146, 356, 45}
731:5	$0, 0, 0, 0, \frac{8}{47}\sqrt{2}e^{12}, \frac{4}{47}\sqrt{82}e^{13}, \frac{4}{47}\sqrt{78}e^{15} + \frac{4}{47}\sqrt{34}e^{34}$	$(\frac{65}{141}, -\frac{79}{141}, \frac{5}{141}, \frac{46}{141}, -\frac{14}{141}, \frac{70}{141}, \frac{17}{47})$ $+\frac{16}{47}\sqrt{14}e^1 \otimes e_2$	{1347, 167, 236, 24}
731:5	$0, 0, 0, 0, \frac{3}{109}\sqrt{690}e^{12}, \frac{2}{109}\sqrt{1610}e^{13}, \frac{1}{109}\sqrt{230}e^{15} + \frac{1}{109}\sqrt{230}e^{34}$	$(-\frac{30}{109}, \frac{82}{109}, -\frac{3}{109}, \frac{25}{109}, \frac{52}{109}, -\frac{33}{109}, \frac{22}{109})$ $+\frac{5}{109}\sqrt{782}e^2 \otimes e_6$	{123, 1567, 245, 3467}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:5	$0, 0, 0, 0, \frac{1}{13}\sqrt{13}e^{12}, \frac{3}{26}\sqrt{26}e^{13}, \frac{1}{26}\sqrt{39}e^{15} + \frac{1}{26}\sqrt{39}e^{34}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, 0, 0)$ $+ \frac{1}{13}\sqrt{78}e^2 \otimes e_6 + \frac{1}{26}\sqrt{286}e^3 \otimes e_4$	{123, 245}
731:5	$0, 0, 0, 0, \frac{8}{47}\sqrt{2}e^{12}, \frac{4}{47}\sqrt{82}e^{13}, \frac{4}{47}\sqrt{34}e^{15} + \frac{4}{47}\sqrt{78}e^{34}$	$(\frac{3}{47}, \frac{11}{47}, -\frac{17}{47}, \frac{34}{47}, \frac{14}{47}, -\frac{14}{47}, \frac{17}{47})$ $+ \frac{16}{47}\sqrt{14}e^4 \otimes e_6$	{134, 16, 2367, 247}
731:5	$0, 0, 0, 0, \frac{1}{53}\sqrt{230}e^{12}, \frac{1}{53}\sqrt{970}e^{13}, \frac{10}{53}\sqrt{3}e^{15} + \frac{1}{53}\sqrt{330}e^{34}$	$(\frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, -\frac{10}{53}, -\frac{5}{53}, \frac{25}{53}, \frac{5}{53})$ $+ \frac{1}{53}\sqrt{1110}e^3 \otimes e_4 + \frac{6}{53}\sqrt{35}e^1 \otimes e_2$	{236, 24}
731:6	$0, 0, 0, 0, \frac{24}{157}\sqrt{13}e^{12}, \frac{28}{157}\sqrt{13}e^{13}, \frac{4}{157}\sqrt{793}e^{25} + \frac{52}{157}\sqrt{2}e^{34}$	$(-\frac{53}{157}, \frac{60}{157}, \frac{9}{157}, \frac{58}{157}, \frac{7}{157}, -\frac{44}{157}, \frac{67}{157})$ $+ \frac{20}{157}\sqrt{65}e^2 \otimes e_6$	{12347, 1567, 245, 36}
731:6	$0, 0, 0, 0, \frac{7}{149}\sqrt{30}e^{12}, \frac{7}{149}\sqrt{106}e^{13}, \frac{7}{149}\sqrt{82}e^{25} + \frac{35}{149}\sqrt{2}e^{34}$	$(-\frac{49}{149}, \frac{42}{149}, \frac{42}{149}, -\frac{7}{149}, -\frac{7}{149}, -\frac{7}{149}, \frac{35}{149})$ $+ \frac{7}{149}\sqrt{102}e^3 \otimes e_4 + \frac{7}{149}\sqrt{158}e^2 \otimes e_6$	{245, 36}
731:6	$0, 0, 0, 0, \frac{4}{147}\sqrt{174}e^{12}, \frac{4}{147}\sqrt{1218}e^{13}, \frac{2}{49}\sqrt{145}e^{25} + \frac{2}{147}\sqrt{1131}e^{34}$	$(-\frac{16}{147}, \frac{25}{147}, \frac{104}{147}, -\frac{10}{21}, \frac{3}{49}, \frac{88}{147}, \frac{34}{147})$ $+ \frac{2}{147}\sqrt{10005}e^3 \otimes e_4$	{1235, 12456, 13, 146}
731:7	$0, 0, 0, 0, \frac{1}{109}\sqrt{230}e^{12}, \frac{2}{109}\sqrt{1610}e^{13} + \frac{1}{109}\sqrt{230}e^{24}, \frac{3}{109}\sqrt{690}e^{15}$	$(-\frac{30}{109}, \frac{26}{109}, \frac{81}{109}, \frac{25}{109}, -\frac{4}{109}, \frac{51}{109}, -\frac{34}{109})$ $+ \frac{5}{109}\sqrt{782}e^3 \otimes e_7$	{1235, 167, 2346, 457}
731:7	$0, 0, 0, 0, \frac{4}{427}\sqrt{9906}e^{12}, \frac{2}{427}\sqrt{7874}e^{13} + \frac{4}{427}\sqrt{635}e^{24}, \frac{4}{427}\sqrt{2667}e^{15}$	$(-\frac{72}{427}, \frac{281}{427}, \frac{18}{61}, -\frac{227}{427}, \frac{209}{427}, \frac{54}{427}, \frac{137}{427})$ $+ \frac{4}{427}\sqrt{21082}e^2 \otimes e_4$	{127, 145, 2357, 34}
731:7	$0, 0, 0, 0, \frac{22}{347}\sqrt{70}e^{12}, \frac{11}{347}\sqrt{119}e^{13} + \frac{33}{347}\sqrt{3}e^{24}, \frac{22}{347}\sqrt{46}e^{15}$	$(\frac{44}{347}, \frac{44}{347}, -\frac{77}{347}, -\frac{77}{347}, \frac{88}{347}, -\frac{33}{347}, \frac{132}{347})$ $+ \frac{11}{347}\sqrt{353}e^1 \otimes e_3 + \frac{33}{347}\sqrt{29}e^2 \otimes e_4$	{127, 145, 2357, 34}
731:7	$0, 0, 0, 0, \frac{22}{347}\sqrt{70}e^{12}, \frac{11}{347}\sqrt{119}e^{13} + \frac{33}{347}\sqrt{3}e^{24}, \frac{22}{347}\sqrt{46}e^{15}$	$(\frac{44}{347}, \frac{44}{347}, -\frac{77}{347}, -\frac{77}{347}, \frac{88}{347}, -\frac{33}{347}, \frac{132}{347})$ $+ \frac{11}{347}\sqrt{353}e^1 \otimes e_3 - \frac{33}{347}\sqrt{29}e^2 \otimes e_4$	{127, 145, 2357, 34}
731:7	$0, 0, 0, 0, \frac{3}{127}\sqrt{366}e^{12}, \frac{12}{127}\sqrt{15}e^{13} + \frac{9}{127}\sqrt{10}e^{24}, \frac{9}{127}\sqrt{42}e^{15}$	$(-\frac{36}{127}, \frac{54}{127}, \frac{63}{127}, -\frac{27}{127}, \frac{18}{127}, \frac{27}{127}, -\frac{18}{127})$ $+ \frac{12}{127}\sqrt{57}e^2 \otimes e_4 + \frac{3}{127}\sqrt{1038}e^3 \otimes e_7$	{1345, 257}
731:8	$0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{5}e^{34}, \frac{2}{5}\sqrt{6}e^{13} + \frac{2}{5}e^{25}$	$(-\frac{2}{15}, \frac{1}{3}, \frac{2}{3}, -\frac{8}{15}, \frac{1}{5}, \frac{2}{15}, \frac{8}{15})$ $+ \frac{4}{5}\sqrt{3}e^3 \otimes e_4$	{12457, 147, 24, 45}
731:8	$0, 0, 0, 0, \frac{16}{67}\sqrt{2}e^{12}, \frac{16}{67}\sqrt{2}e^{34}, \frac{24}{67}\sqrt{2}e^{13} + \frac{8}{67}\sqrt{3}e^{25}$	$(\frac{16}{67}, \frac{4}{67}, \frac{8}{67}, -\frac{24}{67}, \frac{20}{67}, -\frac{16}{67}, \frac{24}{67})$ $+ \frac{40}{67}e^3 \otimes e_4 + \frac{8}{67}\sqrt{33}e^1 \otimes e_6$	{23567, 367}
731:8	$0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{2}{7}\sqrt{2}e^{34}, \frac{2}{7}e^{13} + \frac{2}{7}e^{25}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{2}{7}\sqrt{3}e^1 \otimes e_6 + \frac{2}{7}\sqrt{3}e^4 \otimes e_7$	{127, 157, 2456, 46}
731:8	$0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{2}{7}\sqrt{2}e^{34}, \frac{2}{7}e^{13} + \frac{2}{7}e^{25}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{2}{7}\sqrt{3}e^1 \otimes e_6 - \frac{2}{7}\sqrt{3}e^4 \otimes e_7$	{127, 157, 2456, 46}
731:8	$0, 0, 0, 0, \frac{8}{17}e^{12}, \frac{8}{17}e^{34}, \frac{2}{17}\sqrt{14}e^{13} + \frac{8}{17}e^{25}$	$(\frac{2}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{5}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{4}{17})$ $+ \frac{4}{17}\sqrt{7}e^2 \otimes e_6$	{12347, 13567, 2345, 36}
731:8	$0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{6}e^{34}, \frac{1}{5}\sqrt{6}e^{13} + \frac{1}{5}\sqrt{6}e^{25}$	$(\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{5}\sqrt{10}e^2 \otimes e_6 + \frac{1}{5}\sqrt{2}e^3 \otimes e_4$	{12347, 2345}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:8	$0, 0, 0, 0, \frac{6}{31}\sqrt{13}e^{12}, \frac{6}{31}\sqrt{13}e^{34}, \frac{4}{31}\sqrt{13}e^{13} + \frac{2}{31}\sqrt{13}e^{25}$	$(\frac{18}{31}, -\frac{3}{31}, -\frac{6}{31}, -\frac{2}{31}, \frac{15}{31}, -\frac{8}{31}, \frac{12}{31})$ $+ \frac{4}{31}\sqrt{78}e^1 \otimes e_6$	{127, 157, 2456, 46}
731:8	$0, 0, 0, 0, \frac{1}{131}\sqrt{82}e^{12}, \frac{6}{131}\sqrt{3}e^{34}, \frac{1}{131}\sqrt{62}e^{13} + \frac{6}{131}\sqrt{3}e^{25}$	$(\frac{7}{131}, -\frac{3}{131}, -\frac{6}{131}, \frac{2}{131}, \frac{4}{131}, -\frac{4}{131}, \frac{1}{131})$ $+ \frac{1}{131}\sqrt{78}e^4 \otimes e_7 + \frac{5}{131}\sqrt{6}e^2 \otimes e_6$	{13567, 2345}
731:8	$0, 0, 0, 0, \frac{2}{31}\sqrt{13}e^{12}, \frac{6}{31}\sqrt{13}e^{34}, \frac{4}{31}\sqrt{13}e^{13} + \frac{6}{31}\sqrt{13}e^{25}$	$(\frac{2}{31}, -\frac{3}{31}, -\frac{6}{31}, \frac{22}{31}, -\frac{1}{31}, \frac{16}{31}, -\frac{4}{31})$ $+ \frac{4}{31}\sqrt{78}e^4 \otimes e_7$	{127, 157, 2456, 46}
731:9	$0, 0, 0, 0, \frac{24}{55}\sqrt{3}e^{12}, \frac{24}{55}\sqrt{3}e^{13}, \frac{18}{55}\sqrt{3}e^{14} + \frac{6}{55}\sqrt{21}e^{25}$	$(\frac{32}{55}, -\frac{1}{5}, -\frac{4}{55}, -\frac{2}{5}, \frac{21}{55}, \frac{28}{55}, \frac{2}{11})$ $+ \frac{6}{55}\sqrt{129}e^1 \otimes e_4$	{23456, 245, 346, 4}
731:9	$0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{35}\sqrt{210}e^{13}, \frac{1}{35}\sqrt{170}e^{14} + \frac{4}{35}\sqrt{5}e^{25}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, 0, 0)$ $- \frac{1}{35}\sqrt{290}e^4 \otimes e_6 + \frac{1}{35}\sqrt{330}e^3 \otimes e_7$	{12345, 134, 247, 457}
731:9	$0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{35}\sqrt{210}e^{13}, \frac{1}{35}\sqrt{170}e^{14} + \frac{4}{35}\sqrt{5}e^{25}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, 0, 0)$ $+ \frac{1}{35}\sqrt{290}e^4 \otimes e_6 + \frac{1}{35}\sqrt{330}e^3 \otimes e_7$	{12345, 134, 247, 457}
731:9	$0, 0, 0, 0, \frac{4}{47}\sqrt{78}e^{12}, \frac{4}{47}\sqrt{34}e^{13}, \frac{4}{47}\sqrt{82}e^{14} + \frac{8}{47}\sqrt{2}e^{25}$	$(\frac{26}{47}, -\frac{2}{47}, -\frac{22}{47}, -\frac{4}{47}, \frac{24}{47}, \frac{4}{47}, \frac{22}{47})$ $+ \frac{16}{47}\sqrt{14}e^1 \otimes e_3$	{124, 145, 23457, 347}
731:9	$0, 0, 0, 0, \frac{4}{119}\sqrt{57}e^{12}, \frac{4}{119}\sqrt{57}e^{13}, \frac{6}{119}\sqrt{22}e^{14} + \frac{12}{119}\sqrt{6}e^{25}$	$(\frac{2}{17}, \frac{1}{119}, -\frac{25}{119}, \frac{2}{119}, \frac{15}{119}, -\frac{11}{119}, \frac{16}{119})$ $+ \frac{4}{119}\sqrt{66}e^1 \otimes e_4 + \frac{4}{119}\sqrt{93}e^2 \otimes e_6$	{245, 346}
731:9	$0, 0, 0, 0, \frac{4}{447}\sqrt{1794}e^{12}, \frac{4}{447}\sqrt{6302}e^{13}, \frac{20}{447}\sqrt{138}e^{14} + \frac{8}{447}\sqrt{1426}e^{25}$	$(-\frac{26}{149}, \frac{10}{447}, \frac{310}{447}, \frac{20}{447}, -\frac{68}{447}, \frac{232}{447}, -\frac{58}{447})$ $+ \frac{32}{447}\sqrt{253}e^3 \otimes e_7$	{12345, 134, 247, 457}
731:9	$0, 0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{8}\sqrt{5}e^{14} + \frac{1}{8}\sqrt{13}e^{25}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{5}{16}, \frac{1}{4}, \frac{3}{16}, -\frac{1}{4}, \frac{5}{16})$ $+ \frac{1}{8}\sqrt{14}e^1 \otimes e_3 + \frac{3}{8}\sqrt{3}e^2 \otimes e_6$	{14567, 346}
731:9	$0, 0, 0, 0, \frac{63}{296}e^{12}, \frac{7}{37}\sqrt{3}e^{13}, \frac{7}{296}\sqrt{65}e^{14} + \frac{7}{296}\sqrt{219}e^{25}$	$(-\frac{133}{592}, \frac{35}{296}, \frac{105}{592}, \frac{35}{148}, -\frac{63}{592}, -\frac{7}{148}, \frac{7}{592})$ $+ \frac{7}{296}\sqrt{222}e^3 \otimes e_7 + \frac{7}{296}\sqrt{295}e^2 \otimes e_6$	{14567, 346}
731:9	$0, 0, 0, 0, \frac{4}{47}\sqrt{34}e^{12}, \frac{4}{47}\sqrt{78}e^{13}, \frac{4}{47}\sqrt{82}e^{14} + \frac{8}{47}\sqrt{2}e^{25}$	$(-\frac{34}{141}, \frac{50}{141}, -\frac{10}{141}, \frac{100}{141}, \frac{16}{141}, -\frac{44}{141}, \frac{22}{47})$ $+ \frac{16}{47}\sqrt{14}e^4 \otimes e_6$	{12567, 167, 236, 356}
731:9	$0, 0, 0, 0, \frac{44}{589}\sqrt{11}e^{12}, \frac{132}{589}\sqrt{5}e^{13}, \frac{22}{589}\sqrt{5}e^{14} + \frac{66}{589}\sqrt{13}e^{25}$	$(\frac{88}{589}, -\frac{77}{589}, \frac{176}{589}, -\frac{154}{589}, \frac{11}{589}, \frac{264}{589}, -\frac{66}{589})$ $+ \frac{22}{589}\sqrt{233}e^1 \otimes e_4 + \frac{88}{589}\sqrt{17}e^3 \otimes e_7$	{1267, 1567}
731:9	$0, 0, 0, 0, \frac{4}{37}\sqrt{30}e^{12}, \frac{4}{37}\sqrt{30}e^{13}, \frac{2}{37}\sqrt{110}e^{14} + \frac{8}{37}\sqrt{10}e^{25}$	$(-\frac{6}{37}, \frac{9}{37}, -\frac{5}{37}, \frac{18}{37}, \frac{3}{37}, -\frac{11}{37}, \frac{12}{37})$ $+ \frac{20}{37}\sqrt{3}e^2 \otimes e_6$	{12347, 14567, 245, 346}
731:10	$0, 0, 0, 0, \frac{5}{77}\sqrt{6}e^{12}, \frac{1}{77}\sqrt{870}e^{13}, \frac{5}{77}\sqrt{6}e^{15} + \frac{1}{77}\sqrt{870}e^{24}$	$(-\frac{10}{77}, \frac{19}{77}, \frac{2}{11}, -\frac{20}{77}, \frac{9}{77}, \frac{4}{77}, -\frac{1}{77})$ $+ \frac{2}{77}\sqrt{255}e^2 \otimes e_6 + \frac{2}{77}\sqrt{255}e^3 \otimes e_7$	{27, 356}
731:10	$0, 0, 0, 0, \frac{7}{83}\sqrt{6}e^{12}, \frac{7}{83}\sqrt{30}e^{13}, \frac{21}{83}\sqrt{2}e^{15} + \frac{7}{83}\sqrt{30}e^{24}$	$(-\frac{14}{83}, \frac{21}{83}, \frac{42}{83}, -\frac{28}{83}, \frac{7}{83}, \frac{28}{83}, -\frac{7}{83})$ $+ \frac{14}{83}\sqrt{13}e^2 \otimes e_4 + \frac{14}{83}\sqrt{22}e^3 \otimes e_7$	{1267, 257}
731:10	$0, 0, 0, 0, \frac{1}{25}\sqrt{130}e^{12}, \frac{1}{25}\sqrt{70}e^{13}, \frac{2}{5}e^{15} + \frac{1}{25}\sqrt{70}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{25}\sqrt{35}e^1 \otimes e_3 + \frac{3}{25}\sqrt{10}e^2 \otimes e_4$	{145, 34}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:10	$0, 0, 0, 0, \frac{1}{32}\sqrt{19}e^{12}, \frac{1}{32}\sqrt{31}e^{13}, \frac{1}{32}\sqrt{10}e^{15} + \frac{1}{32}\sqrt{31}e^{24}$	$(\frac{3}{64}, -\frac{7}{64}, \frac{1}{64}, \frac{3}{32}, -\frac{1}{16}, \frac{1}{16}, -\frac{1}{64})$ $+ \frac{1}{8}\sqrt{2}e^4 \otimes e_6 + \frac{3}{32}\sqrt{3}e^3 \otimes e_7$	{12567, 356}
731:10	$0, 0, 0, 0, \frac{5}{32}\sqrt{6}e^{12}, \frac{5}{32}\sqrt{23}e^{13}, \frac{5}{32}\sqrt{11}e^{15} + \frac{5}{32}\sqrt{23}e^{24}$	$(-\frac{5}{64}, \frac{35}{64}, -\frac{5}{32}, -\frac{5}{32}, \frac{15}{32}, -\frac{15}{64}, \frac{25}{64})$ $+ \frac{5}{32}\sqrt{51}e^2 \otimes e_6$	{1234, 14567, 245, 3467}
731:10	$0, 0, 0, 0, \frac{8}{13}e^{12}, \frac{4}{13}\sqrt{7}e^{13}, \frac{8}{13}e^{15} + \frac{4}{13}\sqrt{7}e^{24}$	$(\frac{3}{13}, -\frac{1}{13}, -\frac{5}{13}, \frac{6}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{5}{13})$ $+ \frac{4}{13}\sqrt{11}e^4 \otimes e_6$	{12567, 16, 2367, 356}
731:10	$0, 0, 0, 0, \frac{5}{32}\sqrt{11}e^{12}, \frac{5}{32}\sqrt{23}e^{13}, \frac{5}{32}\sqrt{6}e^{15} + \frac{5}{32}\sqrt{23}e^{24}$	$(-\frac{5}{64}, \frac{1}{64}, \frac{41}{64}, -\frac{5}{32}, -\frac{1}{16}, \frac{9}{16}, -\frac{9}{64})$ $+ \frac{5}{32}\sqrt{51}e^3 \otimes e_7$	{12345, 1467, 2346, 457}
731:10	$0, 0, 0, 0, \frac{5}{61}\sqrt{142}e^{12}, \frac{1}{61}\sqrt{994}e^{13}, \frac{3}{61}\sqrt{142}e^{15} + \frac{1}{61}\sqrt{994}e^{24}$	$(-\frac{14}{61}, \frac{43}{61}, \frac{20}{61}, -\frac{28}{61}, \frac{29}{61}, \frac{6}{61}, \frac{15}{61})$ $+ \frac{4}{61}\sqrt{426}e^2 \otimes e_4$	{13456, 145, 34, 46}
731:10	$0, 0, 0, 0, \frac{4}{13}\sqrt{7}e^{12}, \frac{8}{13}e^{13}, \frac{4}{13}\sqrt{7}e^{15} + \frac{8}{13}e^{24}$	$(\frac{3}{13}, -\frac{1}{13}, -\frac{5}{13}, \frac{6}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{5}{13})$ $+ \frac{4}{13}\sqrt{11}e^1 \otimes e_3$	{1247, 145, 23457, 34}
731:10	$0, 0, 0, 0, \frac{5}{59}\sqrt{42}e^{12}, \frac{10}{59}e^{13}, \frac{10}{59}\sqrt{7}e^{15} + \frac{10}{59}e^{24}$	$(\frac{5}{59}, \frac{10}{59}, -\frac{20}{59}, \frac{10}{59}, \frac{15}{59}, -\frac{15}{59}, \frac{20}{59})$ $+ \frac{10}{59}\sqrt{15}e^1 \otimes e_3 + \frac{5}{59}\sqrt{42}e^2 \otimes e_6$	{1247, 23457}
731:12	$0, 0, 0, 0, \frac{13}{233}\sqrt{21}e^{12}, \frac{13}{233}\sqrt{167}e^{14} + \frac{13}{233}\sqrt{101}e^{23}, \frac{13}{233}\sqrt{87}e^{13} + \frac{52}{233}\sqrt{10}e^{25}$	$(-\frac{143}{466}, \frac{26}{233}, \frac{52}{233}, \frac{299}{466}, -\frac{91}{466}, \frac{78}{233}, -\frac{39}{466})$ $+ \frac{26}{233}\sqrt{94}e^4 \otimes e_7$	{134, 357}
731:13	$0, 0, 0, 0, \frac{2}{233}\sqrt{1205}e^{12}, \frac{1}{233}\sqrt{10122}e^{13}, \frac{2}{233}\sqrt{7471}e^{16} + \frac{1}{233}\sqrt{27474}e^{25}$	$(-\frac{20}{233}, \frac{6}{233}, \frac{32}{233}, 1, -\frac{14}{233}, \frac{12}{233}, -\frac{8}{233})$ $+ \frac{6}{233}\sqrt{2410}e^1 \otimes e_7$	{12456, 146, 2367, 3567}
731:13	$0, 0, 0, 0, \frac{1}{237}\sqrt{13134}e^{12}, \frac{2}{237}\sqrt{6766}e^{13}, \frac{2}{237}\sqrt{6965}e^{16} + \frac{2}{237}\sqrt{597}e^{25}$	$(\frac{22}{79}, \frac{25}{237}, -\frac{16}{237}, -\frac{133}{237}, \frac{91}{237}, \frac{50}{237}, \frac{116}{237})$ $+ \frac{1}{237}\sqrt{73630}e^1 \otimes e_4$	{126, 156, 234567, 3467}
731:13	$0, 0, 0, 0, \frac{4}{37}\sqrt{58}e^{12}, \frac{1}{37}\sqrt{174}e^{13}, \frac{4}{37}\sqrt{29}e^{16} + \frac{1}{37}\sqrt{870}e^{25}$	$(\frac{2}{37}, \frac{6}{37}, \frac{10}{37}, -\frac{23}{37}, \frac{8}{37}, \frac{12}{37}, \frac{14}{37})$ $+ \frac{2}{37}\sqrt{435}e^2 \otimes e_4$	{12367, 134567, 256, 46}
731:13	$0, 0, 0, 0, \frac{4}{227}\sqrt{538}e^{12}, \frac{9}{227}\sqrt{538}e^{13}, \frac{1}{227}\sqrt{10222}e^{16} + \frac{1}{227}\sqrt{5918}e^{25}$	$(-\frac{32}{227}, \frac{57}{227}, \frac{146}{227}, -\frac{123}{227}, \frac{25}{227}, \frac{114}{227}, \frac{82}{227})$ $+ \frac{5}{227}\sqrt{3766}e^3 \otimes e_4$	{12456, 146, 2367, 3567}
731:14	$0, 0, 0, 0, -\frac{1}{33}\sqrt{667}e^{12}, \frac{1}{33}\sqrt{87}e^{13}, \frac{1}{33}\sqrt{667}e^{25} + \frac{1}{33}\sqrt{87}e^{36}$	$(-\frac{1}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{19}{33}, \frac{7}{33}, \frac{7}{33}, \frac{17}{33})$ $+ \frac{2}{33}\sqrt{377}e^2 \otimes e_4$	{12367, 127, 134567, 1457, 235, 256, 34, 46, 12367, 127, 134567, 1457, 235, 256, 34, 46}
731:14	$0, 0, 0, 0, \frac{1}{33}\sqrt{667}e^{12}, \frac{1}{33}\sqrt{87}e^{13}, \frac{1}{33}\sqrt{667}e^{25} + \frac{1}{33}\sqrt{87}e^{36}$	$(-\frac{1}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{19}{33}, \frac{7}{33}, \frac{7}{33}, \frac{17}{33})$ $+ \frac{2}{33}\sqrt{377}e^2 \otimes e_4$	{12367, 127, 134567, 1457, 235, 256, 34, 46, 12367, 127, 134567, 1457, 235, 256, 34, 46}
731:14	$0, 0, 0, 0, -\frac{1}{34}\sqrt{595}e^{12}, \frac{1}{34}\sqrt{595}e^{13}, \frac{1}{17}\sqrt{35}e^{25} + \frac{1}{17}\sqrt{35}e^{36}$	$(\frac{1}{2}, -\frac{5}{68}, -\frac{5}{68}, -\frac{9}{17}, \frac{29}{68}, \frac{29}{68}, \frac{6}{17})$ $+ \frac{1}{17}\sqrt{455}e^1 \otimes e_4$	{1237, 1267, 1567, 23456, 245, 4, 1237, 1267, 1567, 23456, 245, 4}
731:14	$0, 0, 0, 0, \frac{1}{34}\sqrt{595}e^{12}, \frac{1}{34}\sqrt{595}e^{13}, \frac{1}{17}\sqrt{35}e^{25} + \frac{1}{17}\sqrt{35}e^{36}$	$(\frac{1}{2}, -\frac{5}{68}, -\frac{5}{68}, -\frac{9}{17}, \frac{29}{68}, \frac{29}{68}, \frac{6}{17})$ $+ \frac{1}{17}\sqrt{455}e^1 \otimes e_4$	{1237, 1267, 1567, 23456, 245, 4, 1237, 1267, 1567, 23456, 245, 4}
731:14	$0, 0, 0, 0, -\frac{1}{17}\sqrt{35}e^{12}, \frac{1}{17}\sqrt{35}e^{13}, \frac{1}{34}\sqrt{595}e^{25} + \frac{1}{34}\sqrt{595}e^{36}$	$(\frac{2}{17}, -\frac{5}{68}, -\frac{5}{68}, 1, \frac{3}{68}, \frac{3}{68}, -\frac{1}{34})$ $+ \frac{1}{17}\sqrt{455}e^4 \otimes e_7$	{1237, 1267, 1567, 23456, 245, 4, 1237, 1267, 1567, 23456, 245, 4}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
731:14	$0, 0, 0, 0, \frac{1}{17}\sqrt{35}e^{12}, \frac{1}{17}\sqrt{35}e^{13}, \frac{1}{34}\sqrt{595}e^{25} + \frac{1}{34}\sqrt{595}e^{36}$	$(\frac{2}{17}, -\frac{5}{68}, -\frac{5}{68}, 1, \frac{3}{68}, \frac{3}{68}, -\frac{1}{34})$ $+ \frac{1}{17}\sqrt{455}e^4 \otimes e_7$	{1237, 1267, 1567, 23456, 245, 4, 1237, 1267, 1567, 23456, 245, 4}
731:16	$0, 0, 0, 0, -\frac{16}{67}\sqrt{10}e^{12}, \frac{16}{67}\sqrt{10}e^{13}, \frac{8}{67}\sqrt{26}e^{14} + \frac{8}{67}\sqrt{14}e^{25} + \frac{8}{67}\sqrt{14}e^{36}$	$(\frac{40}{67}, -\frac{12}{67}, -\frac{12}{67}, -\frac{24}{67}, \frac{28}{67}, \frac{28}{67}, \frac{16}{67})$ $+ \frac{16}{67}\sqrt{26}e^1 \otimes e_4$	{23456, 245, 4, 23456, 245, 4}
731:16	$0, 0, 0, 0, \frac{16}{67}\sqrt{10}e^{12}, \frac{16}{67}\sqrt{10}e^{13}, \frac{8}{67}\sqrt{26}e^{14} + \frac{8}{67}\sqrt{14}e^{25} + \frac{8}{67}\sqrt{14}e^{36}$	$(\frac{40}{67}, -\frac{12}{67}, -\frac{12}{67}, -\frac{24}{67}, \frac{28}{67}, \frac{28}{67}, \frac{16}{67})$ $+ \frac{16}{67}\sqrt{26}e^1 \otimes e_4$	{23456, 245, 4, 23456, 245, 4}
731:17	$0, 0, 0, 0, \frac{64}{445}\sqrt{46}e^{12}, \frac{128}{445}\sqrt{3}e^{13}, \frac{32}{445}\sqrt{57}e^{15} + \frac{32}{445}\sqrt{59}e^{24} + \frac{32}{445}\sqrt{33}e^{36}$	$(-\frac{96}{445}, \frac{64}{89}, \frac{112}{445}, -\frac{192}{445}, \frac{224}{445}, \frac{16}{445}, \frac{128}{445})$ $+ \frac{64}{445}\sqrt{87}e^2 \otimes e_4$	{13456, 145}
731:19	$0, 0, 0, 0, \frac{2}{191}\sqrt{1695}e^{12}, \frac{2}{191}\sqrt{1695}e^{34}, \frac{2}{191}\sqrt{7458}e^{15} + \frac{2}{191}\sqrt{791}e^{36}$	$(\frac{110}{191}, -\frac{116}{191}, \frac{37}{191}, \frac{30}{191}, -\frac{6}{191}, \frac{67}{191}, \frac{104}{191})$ $+ \frac{2}{191}\sqrt{16498}e^1 \otimes e_2$	{1345, 1456, 23567, 257}
731:19	$0, 0, 0, 0, \frac{33}{173}\sqrt{2}e^{12}, \frac{33}{173}\sqrt{2}e^{34}, \frac{55}{173}\sqrt{2}e^{15} + \frac{55}{173}\sqrt{2}e^{36}$	$(\frac{66}{173}, -\frac{55}{173}, \frac{66}{173}, -\frac{55}{173}, \frac{11}{173}, \frac{11}{173}, \frac{77}{173})$ $+ \frac{11}{173}\sqrt{146}e^1 \otimes e_2 + \frac{11}{173}\sqrt{146}e^3 \otimes e_4$	{1356, 24567}
73:1	$0, 0, 0, 0, \frac{1}{133}\sqrt{4958}e^{12}, \frac{1}{133}\sqrt{1474}e^{13}, \frac{1}{133}\sqrt{1474}e^{23}$	$(\frac{33}{133}, -\frac{30}{133}, -\frac{4}{133}, \frac{10}{19}, \frac{3}{133}, \frac{29}{133}, -\frac{34}{133})$ $+ \frac{2}{133}\sqrt{1742}e^4 \otimes e_5 + \frac{3}{133}\sqrt{938}e^1 \otimes e_7$	{1234, 156, 257, 3467}
73:1	$0, 0, 0, 0, \frac{1}{10}\sqrt{11}e^{12}, \frac{1}{10}\sqrt{11}e^{13}, \frac{1}{10}\sqrt{11}e^{23}$	$(\frac{13}{80}, \frac{13}{80}, -\frac{11}{40}, \frac{1}{8}, \frac{13}{40}, -\frac{9}{80}, -\frac{9}{80})$ $+ \frac{1}{40}\sqrt{385}e^1 \otimes e_7 + \frac{1}{40}\sqrt{385}e^2 \otimes e_6$	{123, 1234, 1456, 156, 3467, 367}
73:1	$0, 0, 0, 0, \frac{1}{10}\sqrt{11}e^{12}, \frac{1}{10}\sqrt{11}e^{13}, \frac{1}{10}\sqrt{11}e^{23}$	$(\frac{13}{80}, \frac{13}{80}, -\frac{11}{40}, \frac{1}{8}, \frac{13}{40}, -\frac{9}{80}, -\frac{9}{80})$ $+ \frac{1}{40}\sqrt{385}e^1 \otimes e_7 - \frac{1}{40}\sqrt{385}e^2 \otimes e_6$	{123, 1234, 1456, 156, 3467, 367}
73:1	$0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{13}, \frac{2}{43}\sqrt{110}e^{23}$	$(\frac{19}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{25}{43}, \frac{21}{43}, \frac{21}{43}, \frac{4}{43})$ $+ \frac{4}{43}\sqrt{187}e^1 \otimes e_4$	{1237, 126, 1567, 234567, 245, 47}
73:1	$0, 0, 0, 0, \frac{1}{14}\sqrt{170}e^{12}, \frac{1}{14}\sqrt{17}e^{13}, \frac{1}{14}\sqrt{17}e^{23}$	$(-\frac{3}{28}, -\frac{3}{28}, \frac{2}{7}, 1, -\frac{3}{14}, \frac{5}{28}, \frac{5}{28})$ $+ \frac{1}{14}\sqrt{374}e^4 \otimes e_5$	{123467, 124, 1356, 157, 34, 467}
73:1	$0, 0, 0, 0, \frac{1}{15}\sqrt{86}e^{12}, \frac{1}{15}\sqrt{86}e^{13}, \frac{1}{15}\sqrt{86}e^{23}$	$(\frac{3}{5}, -\frac{8}{45}, -\frac{8}{45}, \frac{2}{9}, \frac{19}{45}, \frac{19}{45}, -\frac{16}{45})$ $+ \frac{1}{45}\sqrt{3010}e^1 \otimes e_7$	{123, 1234, 1456, 156, 2457, 257}
73:1	$0, 0, 0, 0, \frac{1}{142}\sqrt{3657}e^{12}, \frac{1}{142}\sqrt{3657}e^{13}, \frac{1}{71}\sqrt{106}e^{23}$	$(\frac{5}{71}, \frac{85}{284}, -\frac{41}{284}, -\frac{43}{142}, \frac{105}{284}, -\frac{21}{284}, \frac{11}{71})$ $+ \frac{1}{142}\sqrt{6466}e^1 \otimes e_4 + \frac{3}{142}\sqrt{742}e^2 \otimes e_6$	{123, 156, 2457, 3467}
73:2	$0, 0, 0, 0, \frac{4}{157}\sqrt{110}e^{12}, \frac{60}{157}\sqrt{2}e^{13}, \frac{4}{157}\sqrt{110}e^{14}$	$(-\frac{46}{157}, \frac{78}{157}, \frac{44}{157}, \frac{10}{157}, \frac{32}{157}, -\frac{2}{157}, -\frac{36}{157})$ $+ \frac{8}{157}\sqrt{170}e^2 \otimes e_6 + \frac{8}{157}\sqrt{170}e^3 \otimes e_7$	{1234, 1567, 2457, 36}
73:2	$0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{6}{19}e^{13}, \frac{1}{19}\sqrt{66}e^{14}$	$(\frac{5}{38}, \frac{5}{19}, -\frac{7}{38}, -\frac{7}{38}, \frac{15}{38}, -\frac{1}{19}, -\frac{1}{19})$ $+ \frac{1}{19}\sqrt{102}e^1 \otimes e_3 + \frac{1}{19}\sqrt{102}e^2 \otimes e_7$	{124, 157, 235, 347}
73:2	$0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{13}, \frac{2}{43}\sqrt{110}e^{14}$	$(-\frac{10}{43}, \frac{31}{43}, -\frac{3}{43}, \frac{14}{43}, \frac{21}{43}, -\frac{13}{43}, \frac{4}{43})$ $+ \frac{4}{43}\sqrt{187}e^2 \otimes e_6$	{123, 12347, 14567, 156, 245, 257, 346, 367}
73:2	$0, 0, 0, 0, \frac{60}{157}\sqrt{2}e^{12}, \frac{4}{157}\sqrt{110}e^{13}, \frac{4}{157}\sqrt{110}e^{14}$	$(\frac{22}{157}, \frac{44}{157}, -\frac{58}{157}, \frac{10}{157}, \frac{66}{157}, -\frac{36}{157}, \frac{32}{157})$ $+ \frac{8}{157}\sqrt{170}e^1 \otimes e_3 + \frac{8}{157}\sqrt{170}e^2 \otimes e_6$	{1456, 1567, 3467, 36}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
73:2	$0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{1}{19}\sqrt{66}e^{13}, \frac{6}{19}e^{14}$	$(-\frac{6}{19}, \frac{5}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{1}{19}, -\frac{1}{19})$ $+ \frac{1}{19}\sqrt{102}e^2 \otimes e_6 + \frac{1}{19}\sqrt{102}e^3 \otimes e_5$	{123, 12347, 14567, 156, 245, 257}
73:2	$0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{1}{19}\sqrt{66}e^{13}, \frac{6}{19}e^{14}$	$(-\frac{6}{19}, \frac{5}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{1}{19}, -\frac{1}{19})$ $+ \frac{1}{19}\sqrt{102}e^2 \otimes e_6 - \frac{1}{19}\sqrt{102}e^3 \otimes e_5$	{123, 12347, 14567, 156, 245, 257}
73:2	$0, 0, 0, 0, \frac{2}{43}\sqrt{110}e^{12}, \frac{4}{43}\sqrt{66}e^{13}, \frac{4}{43}\sqrt{66}e^{14}$	$(\frac{24}{43}, -\frac{20}{43}, -\frac{3}{43}, -\frac{3}{43}, \frac{4}{43}, \frac{21}{43}, \frac{21}{43})$ $+ \frac{4}{43}\sqrt{187}e^1 \otimes e_2$	{134, 137, 167, 2, 23467, 236}
73:3	$0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{4}{5}e^{13}, \frac{4}{5}e^{24}$	$(0, 0, \frac{3}{5}, -\frac{1}{5}, 0, \frac{3}{5}, -\frac{1}{5})$ $+ \frac{4}{5}\sqrt{2}e^3 \otimes e_7$	{12345, 12567, 13, 1467, 2346, 27, 356, 457}
73:3	$0, 0, 0, 0, \frac{1}{21}\sqrt{106}e^{12}, \frac{2}{21}\sqrt{53}e^{13}, \frac{2}{21}\sqrt{53}e^{24}$	$(\frac{4}{7}, -\frac{13}{63}, -\frac{4}{63}, -\frac{4}{63}, \frac{23}{63}, \frac{32}{63}, -\frac{17}{63})$ $+ \frac{1}{9}\sqrt{106}e^1 \otimes e_7$	{1234, 1246, 135, 156, 23567, 257, 3467, 47}
73:3	$0, 0, 0, 0, \frac{2}{181}\sqrt{4393}e^{12}, \frac{3}{181}\sqrt{1910}e^{13}, \frac{2}{181}\sqrt{191}e^{24}$	$(-\frac{51}{181}, -\frac{4}{181}, \frac{136}{181}, \frac{42}{181}, -\frac{55}{181}, \frac{85}{181}, \frac{38}{181})$ $+ \frac{1}{181}\sqrt{53862}e^3 \otimes e_5$	{123, 12347, 1456, 1567, 2457, 25, 346, 367}
73:3	$0, 0, 0, 0, \frac{2}{53}\sqrt{26}e^{12}, \frac{4}{53}\sqrt{11}e^{13}, \frac{4}{53}\sqrt{11}e^{24}$	$(-\frac{4}{53}, -\frac{4}{53}, \frac{7}{53}, \frac{7}{53}, -\frac{8}{53}, \frac{3}{53}, \frac{3}{53})$ $+ \frac{8}{53}\sqrt{3}e^3 \otimes e_7 + \frac{8}{53}\sqrt{3}e^4 \otimes e_6$	{12345, 12567, 356}
73:3	$0, 0, 0, 0, \frac{3}{14}e^{12}, \frac{3}{14}\sqrt{2}e^{13}, \frac{3}{14}\sqrt{2}e^{24}$	$(\frac{15}{112}, \frac{15}{112}, -\frac{9}{56}, -\frac{9}{56}, \frac{15}{56}, -\frac{3}{112}, -\frac{3}{112})$ $+ \frac{3}{8}e^1 \otimes e_7 + \frac{3}{8}e^2 \otimes e_6$	{1234, 156, 3467}
73:3	$0, 0, 0, 0, \frac{20}{197}\sqrt{2}e^{12}, \frac{4}{197}\sqrt{345}e^{13}, \frac{4}{197}\sqrt{345}e^{24}$	$(\frac{49}{197}, -\frac{35}{197}, -\frac{45}{197}, \frac{44}{197}, \frac{14}{197}, \frac{4}{197}, \frac{9}{197})$ $+ \frac{4}{197}\sqrt{445}e^4 \otimes e_6 + \frac{8}{197}\sqrt{105}e^1 \otimes e_7$	{12345, 16, 2367, 457}
73:3	$0, 0, 0, 0, \frac{1}{85}\sqrt{1722}e^{12}, \frac{1}{85}\sqrt{902}e^{13}, \frac{1}{85}\sqrt{902}e^{24}$	$(\frac{11}{85}, \frac{22}{85}, -\frac{6}{17}, \frac{1}{85}, \frac{33}{85}, -\frac{19}{85}, \frac{23}{85})$ $+ \frac{1}{85}\sqrt{2542}e^1 \otimes e_3 + \frac{2}{85}\sqrt{861}e^2 \otimes e_6$	{14567, 156, 3467, 36}
73:3	$0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{10}e^{13}, \frac{1}{10}\sqrt{10}e^{24}$	$(\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, \frac{1}{2}, 0, 0)$ $+ \frac{3}{10}\sqrt{5}e^1 \otimes e_3 + \frac{3}{10}\sqrt{5}e^2 \otimes e_4$	{12, 145, 34}
73:3	$0, 0, 0, 0, \frac{1}{19}\sqrt{322}e^{12}, \frac{1}{19}\sqrt{46}e^{13}, \frac{1}{19}\sqrt{46}e^{24}$	$(\frac{13}{19}, -\frac{2}{19}, \frac{10}{19}, \frac{5}{19}, \frac{11}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{690}e^1 \otimes e_3$	{12, 1247, 145, 157, 23457, 235, 34, 37}
73:3	$0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{2}{15}\sqrt{5}e^{13}, \frac{2}{15}\sqrt{10}e^{24}$	$(\frac{4}{15}, -\frac{1}{3}, 0, \frac{4}{15}, -\frac{1}{15}, \frac{4}{15}, -\frac{1}{15})$ $+ \frac{1}{15}\sqrt{70}e^1 \otimes e_7 - \frac{2}{15}\sqrt{15}e^4 \otimes e_5$	{1234, 1246, 135, 156, 23567, 257, 3467, 47}
73:3	$0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{2}{15}\sqrt{5}e^{13}, \frac{2}{15}\sqrt{10}e^{24}$	$(\frac{4}{15}, -\frac{1}{3}, 0, \frac{4}{15}, -\frac{1}{15}, \frac{4}{15}, -\frac{1}{15})$ $+ \frac{1}{15}\sqrt{70}e^1 \otimes e_7 + \frac{2}{15}\sqrt{15}e^4 \otimes e_5$	{1234, 1246, 135, 156, 23567, 257, 3467, 47}
73:3	$0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{2}{15}\sqrt{10}e^{13}, \frac{2}{15}\sqrt{5}e^{24}$	$(\frac{2}{15}, -\frac{1}{5}, \frac{4}{15}, 0, -\frac{1}{15}, \frac{2}{5}, -\frac{1}{5})$ $+ \frac{1}{15}\sqrt{70}e^1 \otimes e_7 + \frac{2}{15}\sqrt{15}e^3 \otimes e_5$	{1234, 156, 257, 3467}
73:3	$0, 0, 0, 0, \frac{1}{40}\sqrt{17}e^{12}, \frac{3}{40}\sqrt{51}e^{13}, \frac{17}{40}e^{24}$	$(-\frac{3}{16}, -\frac{1}{16}, \frac{7}{40}, \frac{33}{80}, -\frac{1}{4}, -\frac{1}{80}, \frac{7}{20})$ $+ \frac{1}{40}\sqrt{510}e^3 \otimes e_5 + \frac{1}{40}\sqrt{663}e^4 \otimes e_6$	{12567, 1347, 2367, 457}
73:3	$0, 0, 0, 0, \frac{8}{189}\sqrt{186}e^{12}, \frac{8}{189}\sqrt{39}e^{13}, \frac{32}{189}\sqrt{3}e^{24}$	$(\frac{53}{189}, -\frac{55}{189}, -\frac{43}{189}, \frac{94}{189}, -\frac{2}{189}, \frac{10}{189}, \frac{13}{63})$ $+ \frac{8}{189}\sqrt{237}e^1 \otimes e_3 + \frac{8}{63}\sqrt{29}e^4 \otimes e_5$	{124, 15, 2357, 347}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
73:4	$0, 0, 0, 0, \frac{8}{103}\sqrt{69}e^{12}, \frac{8}{103}\sqrt{69}e^{13}, \frac{2}{103}\sqrt{782}e^{14} + \frac{8}{103}\sqrt{69}e^{23}$	$(-\frac{10}{103}, \frac{55}{103}, -\frac{27}{103}, \frac{38}{103}, \frac{45}{103}, -\frac{37}{103}, \frac{28}{103})$ $+ \frac{4}{103}\sqrt{943}e^2 \otimes e_6$	{123, 156, 257, 367}
73:4	$0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{5}e^{13}, \frac{1}{5}\sqrt{15}e^{14} + \frac{1}{5}\sqrt{5}e^{23}$	$(-\frac{3}{10}, 0, \frac{2}{5}, \frac{7}{10}, -\frac{3}{10}, \frac{1}{10}, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^4 \otimes e_5$	{124, 157, 256, 467}
73:4	$0, 0, 0, 0, \frac{12}{65}\sqrt{5}e^{12}, \frac{12}{65}\sqrt{5}e^{13}, \frac{2}{65}\sqrt{110}e^{14} + \frac{4}{65}\sqrt{10}e^{23}$	$(\frac{2}{13}, \frac{3}{13}, -\frac{3}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, 0)$ $+ \frac{4}{13}\sqrt{3}e^2 \otimes e_6 + \frac{4}{65}\sqrt{70}e^1 \otimes e_4$	{123, 156}
73:4	$0, 0, 0, 0, \frac{1}{11}\sqrt{33}e^{12}, \frac{1}{22}\sqrt{33}e^{13}, \frac{1}{22}\sqrt{22}e^{14} + \frac{1}{22}\sqrt{33}e^{23}$	$(-\frac{1}{4}, \frac{1}{4}, 0, \frac{1}{2}, 0, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{11}\sqrt{55}e^2 \otimes e_6 + \frac{3}{22}\sqrt{22}e^4 \otimes e_5$	{1234, 3467}
73:4	$0, 0, 0, 0, \frac{8}{91}\sqrt{11}e^{12}, \frac{8}{91}\sqrt{11}e^{13}, \frac{4}{91}\sqrt{38}e^{14} + \frac{8}{91}\sqrt{11}e^{23}$	$(-\frac{16}{91}, \frac{6}{91}, \frac{6}{91}, \frac{4}{13}, -\frac{10}{91}, -\frac{10}{91}, \frac{12}{91})$ $+ \frac{4}{91}\sqrt{82}e^2 \otimes e_6 - \frac{4}{91}\sqrt{82}e^3 \otimes e_5$	{123, 156, 257}
73:4	$0, 0, 0, 0, \frac{8}{91}\sqrt{11}e^{12}, \frac{8}{91}\sqrt{11}e^{13}, \frac{4}{91}\sqrt{38}e^{14} + \frac{8}{91}\sqrt{11}e^{23}$	$(-\frac{16}{91}, \frac{6}{91}, \frac{6}{91}, \frac{4}{13}, -\frac{10}{91}, -\frac{10}{91}, \frac{12}{91})$ $+ \frac{4}{91}\sqrt{82}e^2 \otimes e_6 + \frac{4}{91}\sqrt{82}e^3 \otimes e_5$	{123, 156, 257}
73:4	$0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, \frac{1}{5}\sqrt{5}e^{14} + \frac{1}{5}\sqrt{5}e^{23}$	$(\frac{1}{2}, 0, 0, -\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, 0)$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_4$	{126, 245}
73:5	$0, 0, 0, 0, \frac{40}{137}\sqrt{6}e^{12}, \frac{40}{137}\sqrt{6}e^{34}, \frac{40}{137}\sqrt{3}e^{13} + \frac{10}{137}\sqrt{62}e^{24}$	$(\frac{65}{137}, \frac{10}{137}, -\frac{45}{137}, \frac{10}{137}, \frac{75}{137}, -\frac{35}{137}, \frac{20}{137})$ $+ \frac{20}{137}\sqrt{55}e^1 \otimes e_6$	{1345, 157, 367, 46}
73:5	$0, 0, 0, 0, \frac{3}{25}\sqrt{10}e^{12}, \frac{3}{25}\sqrt{10}e^{34}, \frac{1}{25}\sqrt{10}e^{13} + \frac{1}{25}\sqrt{10}e^{24}$	$(\frac{6}{25}, -\frac{1}{5}, -\frac{1}{5}, \frac{6}{25}, \frac{1}{25}, \frac{1}{25}, \frac{1}{25})$ $+ \frac{1}{25}\sqrt{110}e^1 \otimes e_6 + \frac{1}{25}\sqrt{110}e^4 \otimes e_5$	{12347, 2356}
73:6	$0, 0, 0, 0, \frac{7}{58}\sqrt{30}e^{12}, \frac{7}{58}\sqrt{17}e^{14} - \frac{7}{58}\sqrt{30}e^{23}, \frac{7}{58}\sqrt{30}e^{13} + \frac{7}{58}\sqrt{17}e^{24}$	$(-\frac{21}{116}, -\frac{21}{116}, \frac{14}{29}, \frac{14}{29}, -\frac{21}{58}, \frac{35}{116}, \frac{35}{116})$ $+ \frac{7}{58}\sqrt{94}e^3 \otimes e_5$	{123, 157, 367, 123, 157, 367}
73:6	$0, 0, 0, 0, \frac{7}{58}\sqrt{30}e^{12}, \frac{7}{58}\sqrt{17}e^{14} + \frac{7}{58}\sqrt{30}e^{23}, \frac{7}{58}\sqrt{30}e^{13} + \frac{7}{58}\sqrt{17}e^{24}$	$(-\frac{21}{116}, -\frac{21}{116}, \frac{14}{29}, \frac{14}{29}, -\frac{21}{58}, \frac{35}{116}, \frac{35}{116})$ $+ \frac{7}{58}\sqrt{94}e^3 \otimes e_5$	{123, 157, 367, 123, 157, 367}
721:1	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{282}e^{12}, \frac{1}{39}\sqrt{1222}e^{16}$	$(\frac{23}{39}, -\frac{8}{13}, \frac{3}{13}, \frac{3}{13}, \frac{3}{13}, -\frac{1}{39}, \frac{22}{39})$ $+ \frac{2}{39}\sqrt{705}e^1 \otimes e_2$	{13456, 1346, 136, 16, 234567, 23467, 2367, 267}
721:1	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{282}e^{12}, \frac{2}{125}\sqrt{1222}e^{16}$	$(-\frac{14}{125}, \frac{12}{125}, \frac{13}{25}, \frac{78}{125}, -\frac{29}{125}, -\frac{2}{125}, -\frac{16}{125})$ $+ \frac{4}{125}\sqrt{705}e^4 \otimes e_7 + \frac{94}{125}e^3 \otimes e_5$	{1237, 1257, 1346, 1456, 2367, 2567, 34, 45}
721:1	$0, 0, 0, 0, 0, \frac{8}{129}\sqrt{34}e^{12}, \frac{8}{129}\sqrt{34}e^{16}$	$(-\frac{1}{129}, \frac{5}{43}, -\frac{35}{129}, -\frac{19}{129}, \frac{47}{129}, \frac{14}{129}, \frac{13}{129})$ $+ \frac{14}{129}\sqrt{17}e^1 \otimes e_3 + \frac{2}{129}\sqrt{561}e^2 \otimes e_4 + \frac{2}{129}\sqrt{561}e^5 \otimes e_7$	{127, 1456, 2367, 345}
721:1	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{1222}e^{12}, \frac{1}{39}\sqrt{282}e^{16}$	$(-\frac{7}{39}, \frac{2}{3}, -\frac{7}{13}, \frac{3}{13}, \frac{3}{13}, \frac{19}{39}, \frac{4}{13})$ $+ \frac{2}{39}\sqrt{705}e^2 \otimes e_3$	{12457, 1247, 127, 13456, 1346, 136, 24567, 2467, 267, 3, 34, 345}
721:1	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{282}e^{12}, \frac{1}{39}\sqrt{1222}e^{16}$	$(-\frac{7}{39}, \frac{2}{13}, 1, \frac{3}{13}, \frac{3}{13}, -\frac{1}{39}, -\frac{8}{39})$ $+ \frac{2}{39}\sqrt{705}e^3 \otimes e_7$	{12457, 1247, 127, 13456, 1346, 136, 24567, 2467, 267, 3, 34, 345}
721:1	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{1222}e^{12}, \frac{2}{125}\sqrt{282}e^{16}$	$(-\frac{14}{125}, \frac{52}{125}, \frac{13}{25}, -\frac{42}{125}, -\frac{29}{125}, \frac{38}{125}, \frac{24}{125})$ $+ \frac{4}{125}\sqrt{705}e^2 \otimes e_4 + \frac{94}{125}e^3 \otimes e_5$	{1237, 1257, 1346, 1456, 2367, 2567, 34, 45}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
721:1	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{38}e^{12}, \frac{2}{25}\sqrt{38}e^{16}$	$(\frac{2}{25}, \frac{4}{25}, 1, -\frac{13}{25}, \frac{6}{25}, \frac{6}{25}, \frac{8}{25})$ $+ \frac{38}{25}e^3 \otimes e_4$	{12357, 1237, 12457, 1247, 1356, 136, 1456, 146, 23567, 2367, 24567, 2467, 3, 35, 4, 45}
721:1	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{62}e^{12}, \frac{3}{47}\sqrt{62}e^{16}$	$(-\frac{11}{47}, \frac{18}{47}, \frac{27}{47}, -\frac{13}{47}, \frac{7}{47}, \frac{7}{47}, -\frac{4}{47})$ $+ \frac{2}{47}\sqrt{310}e^2 \otimes e_4 + \frac{2}{47}\sqrt{310}e^3 \otimes e_7$	{1257, 127, 13456, 1346, 2567, 267, 34, 345}
721:1	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{3}e^{12}, \frac{4}{13}\sqrt{3}e^{16}$	$(\frac{3}{13}, -\frac{1}{13}, \frac{6}{13}, -\frac{5}{13}, -\frac{2}{13}, \frac{2}{13}, \frac{5}{13})$ $+ \frac{4}{13}\sqrt{7}e^1 \otimes e_4 + \frac{8}{13}e^3 \otimes e_5$	{1237, 1257, 136, 156, 23467, 24567, 34, 45}
721:1	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{282}e^{12}, \frac{2}{125}\sqrt{1222}e^{16}$	$(\frac{46}{125}, -\frac{48}{125}, \frac{13}{25}, -\frac{29}{125}, \frac{18}{125}, -\frac{2}{125}, \frac{44}{125})$ $+ \frac{4}{125}\sqrt{705}e^1 \otimes e_2 + \frac{94}{125}e^3 \otimes e_4$	{1356, 136, 1456, 146, 23567, 2367, 24567, 2467}
721:1	$0, 0, 0, 0, 0, \frac{2}{175}\sqrt{222}e^{12}, \frac{2}{175}\sqrt{1702}e^{16}$	$(\frac{26}{175}, -\frac{48}{175}, \frac{11}{35}, -\frac{19}{175}, \frac{78}{175}, -\frac{22}{175}, \frac{4}{175})$ $+ \frac{4}{175}\sqrt{555}e^1 \otimes e_2 + \frac{4}{175}\sqrt{555}e^5 \otimes e_7 + \frac{74}{175}e^3 \otimes e_4$	{1356, 1456, 2367, 2467}
721:1	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{37}e^{12}, \frac{1}{87}\sqrt{2146}e^{16}$	$(\frac{7}{87}, -\frac{2}{29}, \frac{15}{29}, -\frac{10}{29}, \frac{4}{29}, \frac{1}{87}, \frac{8}{87})$ $+ \frac{1}{87}\sqrt{2442}e^3 \otimes e_7 + \frac{2}{87}\sqrt{777}e^1 \otimes e_4$	{1257, 127, 1356, 136, 24567, 2467, 34, 345}
721:1	$0, 0, 0, 0, 0, \frac{1}{87}\sqrt{2146}e^{12}, \frac{2}{29}\sqrt{37}e^{16}$	$(\frac{7}{87}, \frac{16}{87}, -\frac{10}{29}, -\frac{7}{29}, \frac{4}{29}, \frac{23}{87}, \frac{10}{29})$ $+ \frac{1}{87}\sqrt{2442}e^2 \otimes e_4 + \frac{2}{87}\sqrt{777}e^1 \otimes e_3$	{1257, 127, 1456, 146, 23567, 2367, 34, 345}
721:1	$0, 0, 0, 0, 0, \frac{1}{69}\sqrt{222}e^{12}, \frac{1}{69}\sqrt{1702}e^{16}$	$(\frac{13}{69}, -\frac{8}{23}, \frac{13}{23}, \frac{3}{23}, \frac{3}{23}, -\frac{11}{69}, \frac{2}{69})$ $+ \frac{2}{69}\sqrt{555}e^1 \otimes e_2 + \frac{2}{69}\sqrt{555}e^3 \otimes e_7$	{13456, 1346, 136, 24567, 2467, 267}
721:1	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{4}{9}\sqrt{3}e^{16}$	$(\frac{1}{3}, -\frac{1}{9}, -\frac{5}{9}, \frac{2}{9}, \frac{2}{9}, \frac{5}{9})$ $+ \frac{4}{9}\sqrt{7}e^1 \otimes e_3$	{12457, 1247, 127, 1456, 146, 16, 234567, 23467, 2367, 3, 34, 345}
721:2	$0, 0, 0, 0, 0, \frac{8}{189}\sqrt{39}e^{12}, \frac{8}{189}\sqrt{186}e^{13} + \frac{32}{189}\sqrt{3}e^{26}$	$(-\frac{26}{189}, \frac{20}{189}, \frac{40}{189}, \frac{110}{189}, -\frac{8}{27}, -\frac{2}{63}, \frac{2}{27})$ $+ \frac{8}{189}\sqrt{237}e^3 \otimes e_5 + \frac{8}{63}\sqrt{29}e^4 \otimes e_7$	{12346, 134, 237, 367}
721:2	$0, 0, 0, 0, 0, \frac{8}{89}\sqrt{106}e^{12}, \frac{2}{89}\sqrt{371}e^{13} + \frac{6}{89}\sqrt{53}e^{26}$	$(\frac{64}{89}, -\frac{21}{89}, -\frac{42}{89}, \frac{20}{89}, \frac{20}{89}, \frac{43}{89}, \frac{22}{89})$ $+ \frac{2}{89}\sqrt{3657}e^1 \otimes e_3$	{23456, 2346, 236, 3, 34, 345}
721:2	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{34}e^{12}, \frac{2}{53}\sqrt{85}e^{13} + \frac{6}{53}\sqrt{17}e^{26}$	$(\frac{16}{53}, -\frac{9}{53}, -\frac{18}{53}, \frac{32}{53}, \frac{8}{53}, \frac{7}{53}, -\frac{2}{53})$ $+ \frac{2}{53}\sqrt{357}e^1 \otimes e_3 + \frac{4}{53}\sqrt{102}e^4 \otimes e_7$	{1257, 127, 1567, 167}
721:2	$0, 0, 0, 0, 0, \frac{3}{181}\sqrt{1910}e^{12}, \frac{2}{181}\sqrt{4393}e^{13} + \frac{2}{181}\sqrt{191}e^{26}$	$(\frac{90}{181}, -\frac{3}{181}, -\frac{6}{181}, -\frac{101}{181}, \frac{40}{181}, \frac{87}{181}, \frac{84}{181})$ $+ \frac{1}{181}\sqrt{53862}e^1 \otimes e_4$	{123, 1235, 1356, 136, 234567, 23467, 3457, 347}
721:2	$0, 0, 0, 0, 0, \frac{6}{109}\sqrt{33}e^{12}, \frac{6}{109}\sqrt{87}e^{13} + \frac{6}{109}\sqrt{33}e^{26}$	$(\frac{22}{109}, -\frac{7}{109}, -\frac{14}{109}, \frac{62}{109}, -\frac{32}{109}, \frac{15}{109}, \frac{8}{109})$ $+ \frac{6}{109}\sqrt{141}e^1 \otimes e_5 + \frac{6}{109}\sqrt{141}e^4 \otimes e_7$	{127, 167, 2456, 45}
721:2	$0, 0, 0, 0, 0, \frac{17}{40}e^{12}, \frac{1}{40}\sqrt{17}e^{13} + \frac{3}{40}\sqrt{51}e^{26}$	$(-\frac{1}{16}, \frac{3}{40}, \frac{3}{20}, \frac{41}{80}, -\frac{7}{20}, \frac{1}{80}, \frac{7}{80})$ $+ \frac{1}{40}\sqrt{510}e^4 \otimes e_7 + \frac{1}{40}\sqrt{663}e^2 \otimes e_5$	{1237, 13567, 2346, 345}
721:2	$0, 0, 0, 0, 0, \frac{32}{189}\sqrt{3}e^{12}, \frac{8}{189}\sqrt{186}e^{13} + \frac{8}{189}\sqrt{39}e^{26}$	$(\frac{32}{189}, \frac{20}{189}, \frac{40}{189}, -\frac{64}{189}, -\frac{8}{27}, \frac{52}{189}, \frac{8}{21})$ $+ \frac{8}{189}\sqrt{237}e^3 \otimes e_5 + \frac{8}{63}\sqrt{29}e^1 \otimes e_4$	{123, 136, 23467, 347}
721:2	$0, 0, 0, 0, 0, \frac{4}{193}\sqrt{646}e^{12}, \frac{2}{193}\sqrt{1190}e^{13} + \frac{4}{193}\sqrt{442}e^{26}$	$(\frac{54}{193}, -\frac{7}{193}, -\frac{14}{193}, -\frac{75}{193}, \frac{23}{193}, \frac{47}{193}, \frac{40}{193})$ $+ \frac{24}{193}\sqrt{17}e^1 \otimes e_3 + \frac{28}{193}\sqrt{17}e^2 \otimes e_4$	{2356, 236, 34, 345}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
721:2	$0, 0, 0, 0, 0, \frac{4}{5}e^{12}, \frac{2}{5}\sqrt{2}e^{13} + \frac{4}{5}e^{26}$	$(0, \frac{1}{5}, \frac{2}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{2}{5})$ $+ \frac{4}{5}\sqrt{2}e^2 \otimes e_4$	{12357, 1237, 134567, 13467, 2356, 236, 34, 345}
721:2	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{46}e^{12}, \frac{1}{19}\sqrt{322}e^{13} + \frac{1}{19}\sqrt{46}e^{26}$	$(-\frac{2}{19}, \frac{6}{19}, \frac{12}{19}, -\frac{11}{19}, \frac{4}{19}, \frac{4}{19}, \frac{10}{19})$ $+ \frac{1}{19}\sqrt{690}e^3 \otimes e_4$	{124567, 12467, 1457, 147, 24, 245, 456, 46}
721:2	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{11}e^{12}, \frac{2}{29}\sqrt{22}e^{13} + \frac{4}{29}\sqrt{11}e^{26}$	$(\frac{4}{29}, \frac{3}{29}, \frac{6}{29}, 1, -\frac{15}{29}, \frac{7}{29}, \frac{10}{29})$ $+ \frac{44}{29}e^4 \otimes e_5$	{1247, 1257, 1467, 1567, 246, 256, 4, 5}
721:2	$0, 0, 0, 0, 0, \frac{4}{71}\sqrt{106}e^{12}, \frac{1}{71}\sqrt{371}e^{13} + \frac{3}{71}\sqrt{53}e^{26}$	$(\frac{32}{71}, -\frac{21}{142}, -\frac{21}{71}, \frac{73}{142}, -\frac{33}{142}, \frac{43}{142}, \frac{11}{71})$ $+ \frac{1}{71}\sqrt{3657}e^1 \otimes e_3 + \frac{53}{71}e^4 \otimes e_5$	{2346, 2356, 34, 35}
721:2	$0, 0, 0, 0, 0, \frac{3}{40}\sqrt{51}e^{12}, \frac{1}{40}\sqrt{17}e^{13} + \frac{17}{40}e^{26}$	$(\frac{3}{16}, \frac{3}{40}, \frac{3}{20}, -\frac{19}{80}, -\frac{7}{20}, \frac{21}{80}, \frac{27}{80})$ $+ \frac{1}{40}\sqrt{510}e^1 \otimes e_4 + \frac{1}{40}\sqrt{663}e^2 \otimes e_5$	{1237, 13567, 2346, 345}
721:2	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{646}e^{12}, \frac{1}{67}\sqrt{170}e^{13} + \frac{6}{67}\sqrt{17}e^{26}$	$(\frac{11}{67}, -\frac{3}{67}, -\frac{6}{67}, -\frac{20}{67}, \frac{22}{67}, \frac{8}{67}, \frac{5}{67})$ $+ \frac{1}{67}\sqrt{510}e^5 \otimes e_7 + \frac{3}{67}\sqrt{102}e^2 \otimes e_4 + \frac{6}{67}\sqrt{17}e^1 \otimes e_3$	{2356, 345}
721:2	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{191}e^{12}, \frac{2}{181}\sqrt{4393}e^{13} + \frac{3}{181}\sqrt{1910}e^{26}$	$(-\frac{4}{181}, -\frac{3}{181}, -\frac{6}{181}, 1, \frac{40}{181}, -\frac{7}{181}, -\frac{10}{181})$ $+ \frac{1}{181}\sqrt{53862}e^4 \otimes e_7$	{123456, 12346, 134, 1345, 2357, 237, 3567, 367}
721:3	$0, 0, 0, 0, 0, \frac{1}{69}\sqrt{2806}e^{12}, \frac{4}{69}\sqrt{183}e^{16} + \frac{1}{69}\sqrt{366}e^{34}$	$(\frac{22}{69}, -\frac{8}{69}, \frac{6}{23}, \frac{6}{23}, -\frac{13}{23}, \frac{14}{23}, \frac{12}{23})$ $+ \frac{2}{23}\sqrt{183}e^1 \otimes e_5$	{12347, 127, 136, 234567, 2567, 35}
721:3	$0, 0, 0, 0, 0, \frac{12}{79}\sqrt{3}e^{12}, \frac{6}{79}\sqrt{39}e^{16} + \frac{6}{79}\sqrt{39}e^{34}$	$(-\frac{5}{79}, \frac{8}{79}, \frac{26}{79}, -\frac{28}{79}, \frac{52}{79}, \frac{3}{79}, -\frac{2}{79})$ $+ \frac{12}{79}\sqrt{30}e^5 \otimes e_7 + \frac{54}{79}e^3 \otimes e_4$	{1237, 1247, 2367, 2467}
721:3	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{2074}e^{12}, \frac{1}{51}\sqrt{366}e^{16} + \frac{1}{51}\sqrt{366}e^{34}$	$(-\frac{8}{51}, \frac{2}{3}, \frac{3}{17}, \frac{3}{17}, -\frac{9}{17}, \frac{26}{51}, \frac{6}{17})$ $+ \frac{1}{51}\sqrt{4758}e^2 \otimes e_5$	{1237, 13456, 156, 2367, 345, 5}
721:3	$0, 0, 0, 0, 0, \frac{48}{181}e^{12}, \frac{16}{181}\sqrt{26}e^{16} + \frac{16}{181}\sqrt{26}e^{34}$	$(\frac{69}{181}, -\frac{59}{181}, \frac{78}{181}, \frac{1}{181}, -\frac{50}{181}, \frac{10}{181}, \frac{79}{181})$ $+ \frac{16}{181}\sqrt{77}e^1 \otimes e_2 + \frac{16}{181}\sqrt{77}e^3 \otimes e_5$	{1346, 156, 2367, 24567}
721:3	$0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7170}e^{12}, \frac{4}{199}\sqrt{239}e^{16} + \frac{1}{199}\sqrt{32982}e^{34}$	$(\frac{38}{199}, \frac{30}{199}, \frac{130}{199}, -\frac{24}{199}, -\frac{109}{199}, \frac{68}{199}, \frac{106}{199})$ $+ \frac{2}{199}\sqrt{18403}e^3 \otimes e_5$	{1234, 125, 1367, 14567, 2346, 256, 37, 457}
721:3	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{3}e^{12}, \frac{3}{26}\sqrt{39}e^{16} + \frac{3}{26}\sqrt{39}e^{34}$	$(-\frac{5}{52}, \frac{2}{13}, -\frac{1}{52}, -\frac{1}{52}, 1, \frac{3}{52}, -\frac{1}{26})$ $+ \frac{3}{13}\sqrt{30}e^5 \otimes e_7$	{1237, 13456, 156, 2367, 345, 5}
721:3	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{37}e^{12}, \frac{2}{49}\sqrt{111}e^{16} + \frac{2}{49}\sqrt{111}e^{34}$	$(\frac{5}{49}, \frac{8}{49}, \frac{46}{49}, -\frac{4}{7}, \frac{12}{49}, \frac{13}{49}, \frac{18}{49})$ $+ \frac{74}{49}e^3 \otimes e_4$	{12357, 1237, 12457, 1247, 23567, 2367, 24567, 2467}
721:3	$0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7170}e^{12}, \frac{1}{199}\sqrt{32982}e^{16} + \frac{4}{199}\sqrt{239}e^{34}$	$(\frac{115}{199}, -\frac{124}{199}, \frac{53}{199}, \frac{53}{199}, \frac{45}{199}, -\frac{9}{199}, \frac{106}{199})$ $+ \frac{2}{199}\sqrt{18403}e^1 \otimes e_2$	{1356, 136, 234567, 23467, 2567, 267}
721:3	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2806}e^{12}, \frac{8}{199}\sqrt{183}e^{16} + \frac{2}{199}\sqrt{366}e^{34}$	$(\frac{44}{199}, -\frac{16}{199}, \frac{97}{199}, -\frac{25}{199}, -\frac{78}{199}, \frac{28}{199}, \frac{72}{199})$ $+ \frac{122}{199}e^3 \otimes e_4 + \frac{12}{199}\sqrt{183}e^1 \otimes e_5$	{136, 146, 35, 45}
721:3	$0, 0, 0, 0, 0, \frac{13}{329}\sqrt{30}e^{12}, \frac{39}{329}\sqrt{22}e^{16} + \frac{104}{329}e^{34}$	$(\frac{65}{329}, -\frac{104}{329}, \frac{13}{329}, \frac{13}{329}, \frac{195}{329}, -\frac{39}{329}, \frac{26}{329})$ $+ \frac{130}{329}\sqrt{3}e^5 \otimes e_7 + \frac{26}{329}\sqrt{67}e^1 \otimes e_2$	{13456, 156, 2367}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
721:3	$0, 0, 0, 0, 0, \frac{2}{637}\sqrt{7170}e^{12}, \frac{2}{637}\sqrt{32982}e^{16} + \frac{8}{637}\sqrt{239}e^{34}$	$(\frac{230}{637}, -\frac{248}{637}, \frac{345}{637}, -\frac{19}{91}, \frac{90}{637}, -\frac{18}{637}, \frac{212}{637})$ $+ \frac{478}{637}e^3 \otimes e_4 + \frac{4}{637}\sqrt{18403}e^1 \otimes e_2$	{1356, 136, 1456, 146}
721:3	$0, 0, 0, 0, 0, \frac{26}{827}\sqrt{30}e^{12}, \frac{78}{827}\sqrt{22}e^{16} + \frac{208}{827}e^{34}$	$(\frac{130}{827}, -\frac{208}{827}, \frac{195}{827}, -\frac{143}{827}, \frac{390}{827}, -\frac{78}{827}, \frac{52}{827})$ $+ \frac{260}{827}\sqrt{3}e^5 \otimes e_7 + \frac{338}{827}e^3 \otimes e_4 + \frac{52}{827}\sqrt{67}e^1 \otimes e_2$	{2367, 2467}
721:3	$0, 0, 0, 0, 0, \frac{2}{163}\sqrt{2074}e^{12}, \frac{2}{163}\sqrt{366}e^{16} + \frac{2}{163}\sqrt{366}e^{34}$	$(-\frac{16}{163}, \frac{68}{163}, \frac{79}{163}, -\frac{43}{163}, -\frac{54}{163}, \frac{52}{163}, \frac{36}{163})$ $+ \frac{122}{163}e^3 \otimes e_4 + \frac{2}{163}\sqrt{4758}e^2 \otimes e_5$	{1237, 1247, 2367, 2467}
721:4	$0, 0, 0, 0, 0, \frac{32}{109}\sqrt{10}e^{12}, \frac{16}{109}\sqrt{11}e^{13} + \frac{48}{109}e^{26} + \frac{48}{109}e^{45}$	$(\frac{80}{109}, -\frac{24}{109}, -\frac{48}{109}, \frac{16}{109}, \frac{16}{109}, \frac{56}{109}, \frac{32}{109})$ $+ \frac{32}{109}\sqrt{2}e^1 \otimes e_3$	{23456, 236, 3, 345}
721:4	$0, 0, 0, 0, 0, \frac{8}{53}\sqrt{10}e^{12}, \frac{4}{53}\sqrt{10}e^{13} + \frac{4}{53}\sqrt{30}e^{26} + \frac{4}{53}\sqrt{30}e^{45}$	$(\frac{8}{53}, \frac{6}{53}, \frac{12}{53}, \frac{50}{53}, -\frac{30}{53}, \frac{14}{53}, \frac{20}{53})$ $+ \frac{80}{53}e^4 \otimes e_5$	{1247, 1257, 1467, 1567}
72:1	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{13}e^{12}, \frac{2}{17}\sqrt{13}e^{13}$	$(\frac{2}{17}, \frac{3}{17}, \frac{3}{17}, 1, -\frac{9}{17}, \frac{5}{17}, \frac{5}{17})$ $+ \frac{26}{17}e^4 \otimes e_5$	{1234, 1235, 1247, 1257, 1467, 1567, 23467, 23567, 246, 256, 4, 5}
72:1	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{3}e^{13}$	$(-\frac{3}{8}, \frac{5}{16}, \frac{5}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, -\frac{1}{16})$ $+ \frac{1}{8}\sqrt{21}e^2 \otimes e_7 - \frac{1}{8}\sqrt{21}e^3 \otimes e_6$	{123, 1234, 12345, 14567, 1467, 167, 2456, 246, 26}
72:1	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{3}e^{13}$	$(-\frac{3}{8}, \frac{5}{16}, \frac{5}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, -\frac{1}{16})$ $+ \frac{1}{8}\sqrt{21}e^2 \otimes e_7 + \frac{1}{8}\sqrt{21}e^3 \otimes e_6$	{123, 1234, 12345, 14567, 1467, 167, 2456, 246, 26}
72:1	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12}, \frac{2}{229}\sqrt{1309}e^{13}$	$(-\frac{61}{229}, \frac{66}{229}, \frac{8}{229}, \frac{124}{229}, \frac{30}{229}, \frac{5}{229}, -\frac{53}{229})$ $+ \frac{2}{229}\sqrt{5593}e^4 \otimes e_6 + \frac{7}{229}\sqrt{510}e^2 \otimes e_7$	{1234, 12345, 1567, 167, 256, 26, 3457, 347}
72:1	$0, 0, 0, 0, 0, \frac{3}{32}\sqrt{14}e^{12}, \frac{1}{32}\sqrt{70}e^{13}$	$(-\frac{1}{64}, \frac{9}{64}, -\frac{1}{16}, -\frac{15}{64}, \frac{11}{32}, \frac{1}{8}, -\frac{5}{64})$ $+ \frac{1}{8}\sqrt{7}e^5 \otimes e_6 + \frac{7}{32}\sqrt{3}e^1 \otimes e_4 + \frac{7}{32}\sqrt{3}e^2 \otimes e_7$	{1235, 167, 246, 3457}
72:1	$0, 0, 0, 0, 0, \frac{6}{55}\sqrt{19}e^{12}, \frac{6}{55}\sqrt{19}e^{13}$	$(-\frac{2}{11}, \frac{27}{55}, -\frac{1}{55}, \frac{27}{55}, -\frac{1}{5}, \frac{17}{55}, -\frac{1}{5})$ $+ \frac{38}{55}e^4 \otimes e_5 + \frac{4}{55}\sqrt{133}e^2 \otimes e_7$	{1234, 1235, 1467, 1567, 246, 256, 347, 357}
72:1	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{3}e^{13}$	$(\frac{1}{16}, \frac{5}{16}, -\frac{1}{8}, -\frac{5}{16}, \frac{1}{8}, \frac{3}{8}, -\frac{1}{16})$ $+ \frac{1}{8}\sqrt{21}e^1 \otimes e_4 + \frac{1}{8}\sqrt{21}e^2 \otimes e_7$	{123, 1235, 1567, 167, 2456, 246, 3457, 347}
72:1	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12}, \frac{2}{229}\sqrt{1309}e^{13}$	$(-\frac{61}{229}, \frac{55}{229}, \frac{113}{229}, -\frac{64}{229}, \frac{30}{229}, -\frac{6}{229}, \frac{52}{229})$ $+ \frac{2}{229}\sqrt{5593}e^2 \otimes e_4 + \frac{7}{229}\sqrt{510}e^3 \otimes e_6$	{123, 1235, 14567, 1467, 256, 26, 3457, 347}
72:1	$0, 0, 0, 0, 0, \frac{16}{175}\sqrt{22}e^{12}, \frac{2}{175}\sqrt{374}e^{13}$	$(\frac{4}{35}, \frac{3}{175}, -\frac{24}{175}, -\frac{41}{175}, \frac{67}{175}, \frac{23}{175}, -\frac{4}{175})$ $+ \frac{12}{175}\sqrt{33}e^1 \otimes e_3 + \frac{12}{175}\sqrt{33}e^2 \otimes e_4 + \frac{12}{175}\sqrt{33}e^5 \otimes e_6$	{125, 146, 236, 345}
72:1	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12}, \frac{2}{229}\sqrt{1309}e^{13}$	$(\frac{33}{229}, \frac{66}{229}, -\frac{86}{229}, \frac{30}{229}, \frac{30}{229}, \frac{99}{229}, -\frac{53}{229})$ $+ \frac{2}{229}\sqrt{5593}e^1 \otimes e_3 + \frac{7}{229}\sqrt{510}e^2 \otimes e_7$	{14567, 1467, 167, 3457, 347, 37}
72:1	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{7}\sqrt{10}e^{13}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{3}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{30}e^2 \otimes e_4 + \frac{1}{7}\sqrt{30}e^3 \otimes e_5$	{123, 1257, 14567, 2367, 256, 45}
72:1	$0, 0, 0, 0, 0, \frac{8}{23}\sqrt{7}e^{12}, \frac{2}{23}\sqrt{14}e^{13}$	$(-\frac{2}{23}, -\frac{3}{23}, \frac{6}{23}, 1, \frac{5}{23}, -\frac{5}{23}, \frac{4}{23})$ $+ \frac{12}{23}\sqrt{7}e^4 \otimes e_6$	{123457, 12347, 124, 1245, 13567, 1367, 156, 16, 2356, 236, 2567, 267, 34, 345, 457, 47}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:1	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{7}\sqrt{10}e^{13}$	$\left(\frac{2}{7}, -\frac{3}{7}, 0, \frac{4}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}\right)$ $+ \frac{1}{7}\sqrt{30}e^1 \otimes e_2 + \frac{1}{7}\sqrt{30}e^4 \otimes e_6$	{1356, 136, 1567, 167, 23567, 2367, 256, 26}
72:1	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{85}e^{12}, \frac{1}{40}\sqrt{34}e^{13}$	$\left(\frac{13}{80}, \frac{3}{16}, -\frac{21}{80}, -\frac{19}{80}, \frac{13}{40}, \frac{7}{20}, -\frac{1}{10}\right)$ $+ \frac{3}{40}\sqrt{34}e^5 \otimes e_7 + \frac{3}{40}\sqrt{51}e^1 \otimes e_3 + \frac{3}{40}\sqrt{51}e^2 \otimes e_4$	{127, 1467, 2367, 347}
72:1	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{7}\sqrt{10}e^{13}$	$\left(-\frac{1}{7}, \frac{3}{7}, 0, \frac{4}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}\right)$ $+ \frac{1}{7}\sqrt{30}e^2 \otimes e_5 + \frac{1}{7}\sqrt{30}e^4 \otimes e_7$	{1234, 127, 13456, 1567, 2367, 246, 357, 45}
72:1	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{7}\sqrt{10}e^{13}$	$\left(-\frac{1}{7}, 0, 0, \frac{4}{7}, \frac{4}{7}, -\frac{1}{7}, -\frac{1}{7}\right)$ $+ \frac{1}{7}\sqrt{30}e^4 \otimes e_6 + \frac{1}{7}\sqrt{30}e^5 \otimes e_7$	{12345, 1247, 167, 2367, 256, 45}
72:1	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{34}e^{12}, \frac{1}{20}\sqrt{85}e^{13}$	$\left(\frac{13}{80}, -\frac{21}{80}, -\frac{3}{20}, \frac{13}{40}, \frac{7}{16}, -\frac{1}{10}, \frac{1}{80}\right)$ $+ \frac{3}{40}\sqrt{34}e^4 \otimes e_6 + \frac{3}{40}\sqrt{51}e^1 \otimes e_2 + \frac{3}{40}\sqrt{51}e^5 \otimes e_7$	{1356, 167, 2367, 256}
72:1	$0, 0, 0, 0, 0, \frac{8}{23}\sqrt{7}e^{12}, \frac{2}{23}\sqrt{14}e^{13}$	$\left(-\frac{2}{23}, \frac{15}{23}, \frac{6}{23}, -\frac{13}{23}, \frac{5}{23}, \frac{13}{23}, \frac{4}{23}\right)$ $+ \frac{12}{23}\sqrt{7}e^2 \otimes e_4$	{12, 12357, 1237, 125, 134567, 13467, 1456, 146, 2356, 236, 2567, 267, 34, 345, 457, 47}
72:1	$0, 0, 0, 0, 0, \frac{8}{175}\sqrt{62}e^{12}, \frac{8}{175}\sqrt{62}e^{13}$	$\left(-\frac{46}{175}, \frac{33}{175}, \frac{7}{25}, -\frac{29}{175}, \frac{13}{35}, -\frac{13}{175}, \frac{3}{175}\right)$ $+ \frac{2}{175}\sqrt{1457}e^2 \otimes e_4 + \frac{2}{175}\sqrt{1457}e^5 \otimes e_7 + \frac{6}{175}\sqrt{217}e^3 \otimes e_6$	{1235, 1467, 256, 347}
72:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{19}e^{12}, \frac{1}{6}\sqrt{19}e^{13}$	$\left(-\frac{5}{18}, \frac{3}{4}, -\frac{1}{36}, \frac{2}{9}, \frac{17}{36}, -\frac{11}{36}\right)$ $+ \frac{1}{9}\sqrt{133}e^2 \otimes e_7$	{123, 1234, 12345, 14567, 1467, 167, 2456, 246, 26, 3457, 347, 37}
72:1	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{22}e^{12}, \frac{8}{61}\sqrt{5}e^{13}$	$\left(\frac{17}{61}, \frac{12}{61}, -\frac{15}{61}, -\frac{20}{61}, \frac{7}{61}, \frac{29}{61}, \frac{2}{61}\right)$ $+ \frac{24}{61}\sqrt{3}e^1 \otimes e_3 + \frac{24}{61}\sqrt{3}e^2 \otimes e_4$	{12, 125, 1456, 146, 2356, 236, 34, 345}
72:1	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{14}e^{12}, \frac{8}{23}\sqrt{7}e^{13}$	$\left(\frac{16}{23}, -\frac{12}{23}, -\frac{3}{23}, \frac{5}{23}, \frac{5}{23}, \frac{4}{23}, \frac{13}{23}\right)$ $+ \frac{12}{23}\sqrt{7}e^1 \otimes e_2$	{13, 134, 1345, 1457, 147, 17, 2, 23457, 2347, 237, 24, 245}
72:1	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12}, \frac{2}{229}\sqrt{1309}e^{13}$	$\left(\frac{44}{229}, -\frac{39}{229}, \frac{8}{229}, \frac{124}{229}, -\frac{75}{229}, \frac{5}{229}, \frac{52}{229}\right)$ $+ \frac{2}{229}\sqrt{5593}e^4 \otimes e_6 + \frac{7}{229}\sqrt{510}e^1 \otimes e_5$	{1234, 1247, 136, 167, 23567, 256, 3457, 45}
72:1	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{14}e^{12}, \frac{8}{37}\sqrt{7}e^{13}$	$\left(\frac{16}{37}, -\frac{12}{37}, -\frac{3}{37}, \frac{19}{37}, -\frac{9}{37}, \frac{4}{37}, \frac{13}{37}\right)$ $+ \frac{12}{37}\sqrt{7}e^1 \otimes e_2 + \frac{28}{37}e^4 \otimes e_5$	{134, 135, 147, 157, 2347, 2357, 24, 25}
72:1	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{5}e^{12}, \frac{8}{61}\sqrt{22}e^{13}$	$\left(\frac{17}{61}, -\frac{15}{61}, -\frac{15}{61}, \frac{34}{61}, \frac{7}{61}, \frac{2}{61}, \frac{2}{61}\right)$ $+ \frac{24}{61}\sqrt{3}e^1 \otimes e_2 + \frac{24}{61}\sqrt{3}e^4 \otimes e_7$	{134, 1345, 157, 17, 2357, 237, 24, 245}
72:1	$0, 0, 0, 0, 0, \frac{2}{577}\sqrt{16422}e^{12}, \frac{4}{577}\sqrt{1309}e^{13}$	$\left(\frac{66}{577}, \frac{132}{577}, -\frac{172}{577}, -\frac{59}{577}, \frac{179}{577}, \frac{198}{577}, -\frac{106}{577}\right)$ $+ \frac{14}{577}\sqrt{510}e^2 \otimes e_7 + \frac{238}{577}e^5 \otimes e_4 + \frac{4}{577}\sqrt{5593}e^1 \otimes e_3$	{1467, 1567, 347, 357}
72:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{19}e^{12}, \frac{1}{6}\sqrt{19}e^{13}$	$\left(\frac{1}{2}, -\frac{1}{36}, -\frac{1}{36}, -\frac{5}{9}, \frac{2}{9}, \frac{17}{36}, \frac{17}{36}\right)$ $+ \frac{1}{9}\sqrt{133}e^1 \otimes e_4$	{123, 1235, 1257, 127, 1567, 167, 234567, 23467, 2456, 246, 4, 45}
72:1	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12}, \frac{2}{229}\sqrt{1309}e^{13}$	$\left(\frac{44}{229}, \frac{55}{229}, \frac{8}{229}, -\frac{75}{229}, -\frac{64}{229}, \frac{99}{229}, \frac{52}{229}\right)$ $+ \frac{2}{229}\sqrt{5593}e^2 \otimes e_5 + \frac{7}{229}\sqrt{510}e^1 \otimes e_4$	{123, 127, 1356, 1567, 23467, 246, 3457, 45}
72:1	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{22}e^{12}, \frac{8}{61}\sqrt{5}e^{13}$	$\left(-\frac{10}{61}, \frac{12}{61}, \frac{12}{61}, \frac{34}{61}, -\frac{20}{61}, \frac{2}{61}, \frac{2}{61}\right)$ $+ \frac{24}{61}\sqrt{3}e^2 \otimes e_5 + \frac{24}{61}\sqrt{3}e^4 \otimes e_6$	{12347, 124, 13567, 156, 236, 267, 345, 457}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:1	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{3}e^{12}, \frac{4}{19}\sqrt{3}e^{13}$	$\begin{aligned} & \left(-\frac{6}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{1}{19}\right) \\ & + \frac{2}{19}\sqrt{21}e^2 \otimes e_7 + \frac{2}{19}\sqrt{21}e^3 \otimes e_6 + \frac{6}{19}e^5 \otimes e_4 \end{aligned}$	{1234, 1235, 1467, 1567, 246, 256}
72:1	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{3}e^{12}, \frac{4}{19}\sqrt{3}e^{13}$	$\begin{aligned} & \left(-\frac{6}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{1}{19}\right) \\ & + \frac{2}{19}\sqrt{21}e^2 \otimes e_7 - \frac{2}{19}\sqrt{21}e^3 \otimes e_6 + \frac{6}{19}e^5 \otimes e_4 \end{aligned}$	{1234, 1235, 1467, 1567, 246, 256}
72:1	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{4386}e^{12}, \frac{2}{157}\sqrt{86}e^{13}$	$\begin{aligned} & \left(\frac{6}{157}, \frac{12}{157}, -\frac{37}{157}, \frac{14}{157}, \frac{61}{157}, \frac{18}{157}, -\frac{31}{157}\right) \\ & + \frac{1}{157}\sqrt{4042}e^1 \otimes e_3 + \frac{1}{157}\sqrt{4042}e^5 \otimes e_6 + \frac{7}{157}\sqrt{86}e^2 \otimes e_7 \end{aligned}$	{1467, 167, 3457, 357}
72:2	$0, 0, 0, 0, 0, \frac{12}{211}\sqrt{37}e^{12}, \frac{2}{211}\sqrt{2146}e^{34}$	$\begin{aligned} & \left(\frac{25}{211}, -\frac{49}{211}, \frac{50}{211}, -\frac{34}{211}, \frac{90}{211}, -\frac{24}{211}, \frac{16}{211}\right) \\ & + \frac{2}{211}\sqrt{2442}e^5 \otimes e_7 + \frac{4}{211}\sqrt{777}e^3 \otimes e_6 + \frac{74}{211}e^1 \otimes e_2 \end{aligned}$	{1467, 156, 2467, 256}
72:2	$0, 0, 0, 0, 0, \frac{1}{87}\sqrt{2146}e^{12}, \frac{2}{29}\sqrt{37}e^{34}$	$\begin{aligned} & \left(\frac{16}{87}, \frac{25}{87}, -\frac{2}{29}, -\frac{2}{29}, -\frac{7}{29}, \frac{41}{87}, -\frac{4}{29}\right) \\ & + \frac{1}{87}\sqrt{2442}e^1 \otimes e_5 + \frac{2}{87}\sqrt{777}e^2 \otimes e_7 \end{aligned}$	{12, 1234, 1367, 23456, 256, 357}
72:2	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{4}{9}\sqrt{3}e^{34}$	$\begin{aligned} & \left(\frac{2}{3}, -\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{5}{9}, -\frac{2}{9}\right) \\ & + \frac{4}{9}\sqrt{7}e^1 \otimes e_7 \end{aligned}$	{12, 1234, 12345, 125, 13456, 1346, 156, 16, 23567, 2367, 357, 37}
72:2	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{1222}e^{12}, \frac{1}{39}\sqrt{282}e^{34}$	$\begin{aligned} & \left(-\frac{4}{39}, -\frac{4}{39}, \frac{2}{13}, \frac{2}{13}, 1, -\frac{8}{39}, \frac{4}{13}\right) \\ & + \frac{2}{39}\sqrt{705}e^5 \otimes e_6 \end{aligned}$	{12345, 12357, 125, 1346, 1367, 16, 345, 357, 5}
72:2	$0, 0, 0, 0, 0, \frac{1}{87}\sqrt{2146}e^{12}, \frac{2}{29}\sqrt{37}e^{34}$	$\begin{aligned} & \left(\frac{25}{87}, -\frac{17}{87}, -\frac{2}{29}, -\frac{2}{29}, \frac{15}{29}, \frac{8}{87}, -\frac{4}{29}\right) \\ & + \frac{1}{87}\sqrt{2442}e^5 \otimes e_6 + \frac{2}{87}\sqrt{777}e^1 \otimes e_7 \end{aligned}$	{12345, 125, 1346, 16, 2367, 357}
72:2	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{282}e^{12}, \frac{2}{125}\sqrt{1222}e^{34}$	$\begin{aligned} & \left(\frac{59}{125}, -\frac{7}{25}, \frac{52}{125}, -\frac{8}{125}, -\frac{42}{125}, \frac{24}{125}, \frac{44}{125}\right) \\ & + \frac{4}{125}\sqrt{705}e^3 \otimes e_5 + \frac{94}{125}e^1 \otimes e_2 \end{aligned}$	{1346, 1367, 14567, 156, 2346, 2367, 24567, 256}
72:2	$0, 0, 0, 0, 0, \frac{1}{86}\sqrt{1222}e^{12}, \frac{1}{86}\sqrt{282}e^{34}$	$\begin{aligned} & \left(\frac{39}{172}, -\frac{55}{172}, \frac{59}{172}, -\frac{35}{172}, \frac{39}{86}, -\frac{4}{43}, \frac{6}{43}\right) \\ & + \frac{1}{43}\sqrt{705}e^5 \otimes e_6 + \frac{47}{86}e^1 \otimes e_2 + \frac{47}{86}e^3 \otimes e_4 \end{aligned}$	{1367, 1467, 2367, 2467}
72:2	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{38}e^{12}, \frac{2}{25}\sqrt{38}e^{34}$	$\begin{aligned} & \left(\frac{23}{25}, -\frac{3}{5}, \frac{4}{25}, \frac{4}{25}, \frac{6}{25}, \frac{8}{25}, \frac{8}{25}\right) \\ & + \frac{38}{25}e^1 \otimes e_2 \end{aligned}$	{13456, 1346, 13567, 1367, 156, 16, 23456, 2346, 23567, 2367, 256, 26}
72:2	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{1222}e^{12}, \frac{1}{39}\sqrt{282}e^{34}$	$\begin{aligned} & \left(\frac{2}{3}, -\frac{4}{39}, \frac{2}{13}, \frac{2}{13}, -\frac{7}{13}, \frac{22}{39}, \frac{4}{13}\right) \\ & + \frac{2}{39}\sqrt{705}e^1 \otimes e_5 \end{aligned}$	{12, 1234, 1237, 1346, 1367, 16, 23456, 23567, 256, 345, 357, 5}
72:2	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{5}e^{12}, \frac{1}{6}\sqrt{5}e^{34}$	$\begin{aligned} & \left(\frac{11}{48}, -\frac{5}{24}, \frac{11}{48}, -\frac{5}{24}, \frac{1}{8}, \frac{1}{48}, \frac{1}{48}\right) \\ & + \frac{1}{24}\sqrt{105}e^1 \otimes e_7 + \frac{1}{24}\sqrt{105}e^3 \otimes e_6 \end{aligned}$	{1234, 12345, 156, 16, 24567, 2467}
72:2	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{282}e^{12}, \frac{2}{125}\sqrt{1222}e^{34}$	$\begin{aligned} & \left(\frac{59}{125}, -\frac{7}{25}, -\frac{8}{125}, -\frac{8}{125}, \frac{78}{125}, \frac{24}{125}, -\frac{16}{125}\right) \\ & + \frac{4}{125}\sqrt{705}e^5 \otimes e_7 + \frac{94}{125}e^1 \otimes e_2 \end{aligned}$	{13456, 1367, 156, 23456, 2367, 256}
72:2	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{1222}e^{12}, \frac{2}{125}\sqrt{282}e^{34}$	$\begin{aligned} & \left(\frac{39}{125}, -\frac{11}{25}, \frac{12}{125}, \frac{12}{125}, \frac{78}{125}, -\frac{16}{125}, \frac{24}{125}\right) \\ & + \frac{4}{125}\sqrt{705}e^5 \otimes e_6 + \frac{94}{125}e^1 \otimes e_2 \end{aligned}$	{1346, 1367, 16, 2346, 2367, 26}
72:2	$0, 0, 0, 0, 0, \frac{1}{87}\sqrt{2146}e^{12}, \frac{2}{29}\sqrt{37}e^{34}$	$\begin{aligned} & \left(\frac{16}{87}, -\frac{17}{87}, \frac{12}{29}, -\frac{2}{29}, -\frac{7}{29}, -\frac{1}{87}, \frac{10}{29}\right) \\ & + \frac{1}{87}\sqrt{2442}e^1 \otimes e_5 + \frac{2}{87}\sqrt{777}e^3 \otimes e_6 \end{aligned}$	{1234, 1237, 1467, 16, 24567, 256, 345, 357}
72:2	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{3}e^{12}, \frac{4}{13}\sqrt{3}e^{34}$	$\begin{aligned} & \left(\frac{3}{13}, -\frac{5}{13}, \frac{6}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{2}{13}, \frac{5}{13}\right) \\ & + \frac{4}{13}\sqrt{7}e^3 \otimes e_6 + \frac{8}{13}e^1 \otimes e_2 \end{aligned}$	{14567, 1467, 156, 16, 24567, 2467, 256, 26}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:2	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{38}e^{12}, \frac{1}{22}\sqrt{38}e^{34}$	$(\frac{23}{44}, -\frac{15}{44}, \frac{23}{44}, -\frac{15}{44}, \frac{3}{22}, \frac{2}{11}, \frac{2}{11})$ $+\frac{19}{22}e^1 \otimes e_2 + \frac{19}{22}e^3 \otimes e_4$	{13567, 1367, 14567, 1467, 24567, 2467}
72:3	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{110}e^{12}, \frac{4}{43}\sqrt{66}e^{13} + \frac{4}{43}\sqrt{66}e^{24}$	$(\frac{2}{43}, \frac{2}{43}, -\frac{3}{43}, -\frac{3}{43}, 1, \frac{4}{43}, -\frac{1}{43})$ $+\frac{4}{43}\sqrt{187}e^5 \otimes e_7$	{123456, 1267, 135, 147, 3467, 56}
72:3	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{110}e^{12}, \frac{60}{157}\sqrt{2}e^{13} + \frac{4}{157}\sqrt{110}e^{24}$	$(-\frac{35}{157}, -\frac{1}{157}, \frac{44}{157}, \frac{10}{157}, \frac{89}{157}, -\frac{36}{157}, \frac{9}{157})$ $+\frac{8}{157}\sqrt{170}e^3 \otimes e_6 + \frac{8}{157}\sqrt{170}e^5 \otimes e_7$	{12345, 1467, 2456, 347}
72:3	$0, 0, 0, 0, 0, \frac{8}{17}e^{12}, \frac{2}{17}\sqrt{6}e^{13} + \frac{8}{17}e^{24}$	$(\frac{8}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{7}{17}, -\frac{5}{17}, \frac{5}{17}, \frac{4}{17})$ $+\frac{4}{17}\sqrt{11}e^1 \otimes e_3 + \frac{4}{17}\sqrt{11}e^4 \otimes e_5$	{124, 156, 2346, 35}
72:3	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{13} + \frac{2}{43}\sqrt{110}e^{24}$	$(\frac{19}{43}, \frac{2}{43}, -\frac{3}{43}, \frac{14}{43}, -\frac{25}{43}, \frac{21}{43}, \frac{16}{43})$ $+\frac{4}{43}\sqrt{187}e^1 \otimes e_5$	{123, 1247, 1346, 167, 234567, 256, 357, 45}
72:3	$0, 0, 0, 0, 0, \frac{10}{59}\sqrt{7}e^{12}, \frac{5}{59}\sqrt{3}e^{13} + \frac{5}{59}\sqrt{3}e^{24}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{15}{59}, \frac{20}{59}, \frac{20}{59}, -\frac{5}{59})$ $+\frac{10}{59}\sqrt{7}e^5 \otimes e_7 + \frac{5}{59}\sqrt{39}e^1 \otimes e_3 - \frac{5}{59}\sqrt{39}e^2 \otimes e_4$	{127, 1467, 347}
72:3	$0, 0, 0, 0, 0, \frac{10}{59}\sqrt{7}e^{12}, \frac{5}{59}\sqrt{3}e^{13} + \frac{5}{59}\sqrt{3}e^{24}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{15}{59}, \frac{20}{59}, \frac{20}{59}, -\frac{5}{59})$ $+\frac{10}{59}\sqrt{7}e^5 \otimes e_7 + \frac{5}{59}\sqrt{39}e^1 \otimes e_3 + \frac{5}{59}\sqrt{39}e^2 \otimes e_4$	{127, 1467, 347}
72:3	$0, 0, 0, 0, 0, \frac{5}{106}\sqrt{82}e^{12}, \frac{5}{106}\sqrt{17}e^{13} + \frac{5}{106}\sqrt{17}e^{24}$	$(\frac{15}{212}, \frac{15}{212}, -\frac{35}{212}, -\frac{35}{212}, \frac{53}{212}, \frac{15}{106}, -\frac{5}{53})$ $+\frac{5}{106}\sqrt{66}e^1 \otimes e_3 - \frac{5}{106}\sqrt{66}e^2 \otimes e_4 + \frac{5}{106}\sqrt{66}e^5 \otimes e_6$	{125, 146, 345}
72:3	$0, 0, 0, 0, 0, \frac{5}{106}\sqrt{82}e^{12}, \frac{5}{106}\sqrt{17}e^{13} + \frac{5}{106}\sqrt{17}e^{24}$	$(\frac{15}{212}, \frac{15}{212}, -\frac{35}{212}, -\frac{35}{212}, \frac{53}{212}, \frac{15}{106}, -\frac{5}{53})$ $+\frac{5}{106}\sqrt{66}e^1 \otimes e_3 + \frac{5}{106}\sqrt{66}e^2 \otimes e_4 + \frac{5}{106}\sqrt{66}e^5 \otimes e_6$	{125, 146, 345}
72:3	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{170}e^{12}, \frac{1}{14}\sqrt{17}e^{13} + \frac{1}{14}\sqrt{17}e^{24}$	$(\frac{19}{28}, -\frac{3}{28}, -\frac{15}{28}, \frac{1}{4}, \frac{3}{14}, \frac{4}{7}, \frac{1}{7})$ $+\frac{1}{14}\sqrt{374}e^1 \otimes e_3$	{12, 125, 1456, 146, 2356, 236, 34, 345}
72:3	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{23}e^{12}, \frac{1}{34}\sqrt{138}e^{13} + \frac{3}{34}\sqrt{23}e^{24}$	$(-\frac{5}{68}, -\frac{2}{17}, \frac{15}{34}, \frac{33}{68}, -\frac{4}{17}, -\frac{13}{68}, \frac{25}{68})$ $+\frac{1}{34}\sqrt{598}e^3 \otimes e_5 + \frac{2}{17}\sqrt{46}e^4 \otimes e_6$	{1234, 136, 2367, 347}
72:3	$0, 0, 0, 0, 0, \frac{19}{1019}\sqrt{370}e^{12}, \frac{19}{1019}\sqrt{6}e^{13} + \frac{38}{1019}\sqrt{93}e^{24}$	$(\frac{190}{1019}, -\frac{266}{1019}, -\frac{171}{1019}, \frac{285}{1019}, \frac{380}{1019}, -\frac{76}{1019}, \frac{19}{1019})$ $+\frac{19}{1019}\sqrt{546}e^1 \otimes e_3 + \frac{38}{1019}\sqrt{183}e^4 \otimes e_6 + \frac{95}{1019}\sqrt{22}e^5 \otimes e_7$	{2367, 347}
72:3	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{133}e^{12}, \frac{1}{37}\sqrt{95}e^{13} + \frac{1}{37}\sqrt{95}e^{24}$	$(\frac{9}{37}, -\frac{15}{74}, -\frac{10}{37}, \frac{13}{74}, \frac{41}{74}, \frac{3}{74}, -\frac{1}{37})$ $+\frac{1}{37}\sqrt{627}e^1 \otimes e_3 + \frac{1}{37}\sqrt{627}e^5 \otimes e_6$	{125, 146, 236, 345}
72:3	$0, 0, 0, 0, 0, \frac{60}{157}\sqrt{2}e^{12}, \frac{4}{157}\sqrt{110}e^{13} + \frac{4}{157}\sqrt{110}e^{24}$	$(\frac{33}{157}, -\frac{35}{157}, \frac{10}{157}, \frac{78}{157}, -\frac{47}{157}, -\frac{2}{157}, \frac{43}{157})$ $+\frac{8}{157}\sqrt{170}e^1 \otimes e_5 + \frac{8}{157}\sqrt{170}e^4 \otimes e_6$	{1234, 136, 23567, 3457}
72:3	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{1}{19}\sqrt{66}e^{13} + \frac{6}{19}e^{24}$	$(-\frac{1}{38}, -\frac{1}{38}, \frac{5}{19}, \frac{5}{19}, -\frac{13}{38}, -\frac{1}{19}, \frac{9}{38})$ $+\frac{1}{19}\sqrt{102}e^1 \otimes e_5 + \frac{1}{19}\sqrt{102}e^3 \otimes e_6$	{123, 167, 256, 357}
72:3	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{138}e^{12}, \frac{3}{34}\sqrt{23}e^{13} + \frac{3}{34}\sqrt{23}e^{24}$	$(\frac{21}{68}, -\frac{5}{68}, -\frac{25}{68}, \frac{1}{68}, \frac{21}{34}, \frac{4}{17}, -\frac{1}{17})$ $+\frac{1}{34}\sqrt{598}e^1 \otimes e_3 + \frac{2}{17}\sqrt{46}e^5 \otimes e_7$	{127, 1467, 2367, 347}
72:3	$0, 0, 0, 0, 0, \frac{12}{547}\sqrt{670}e^{12}, \frac{2}{547}\sqrt{8174}e^{13} + \frac{4}{547}\sqrt{2278}e^{24}$	$(\frac{170}{547}, -\frac{183}{547}, -\frac{98}{547}, \frac{255}{547}, \frac{65}{547}, -\frac{13}{547}, \frac{72}{547})$ $+\frac{16}{547}\sqrt{469}e^1 \otimes e_3 + \frac{4}{547}\sqrt{8643}e^4 \otimes e_6$	{124, 1245, 156, 16}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:3	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{170}e^{12}, \frac{1}{14}\sqrt{17}e^{13} + \frac{1}{14}\sqrt{17}e^{24}$	$(-\frac{3}{28}, -\frac{3}{28}, \frac{1}{4}, \frac{1}{4}, 1, -\frac{3}{14}, \frac{1}{7})$ $+ \frac{1}{14}\sqrt{374}e^5 \otimes e_6$	{123457, 125, 1367, 146, 345, 57}
72:3	$0, 0, 0, 0, 0, \frac{12}{547}\sqrt{670}e^{12}, \frac{2}{547}\sqrt{8174}e^{13} + \frac{4}{547}\sqrt{2278}e^{24}$	$(\frac{170}{547}, \frac{75}{547}, -\frac{98}{547}, -\frac{3}{547}, -\frac{193}{547}, \frac{245}{547}, \frac{72}{547})$ $+ \frac{16}{547}\sqrt{469}e^1 \otimes e_3 + \frac{4}{547}\sqrt{8643}e^2 \otimes e_5$	{124, 156, 2346, 35}
72:3	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{13} + \frac{2}{43}\sqrt{110}e^{24}$	$(-\frac{15}{43}, \frac{2}{43}, \frac{31}{43}, \frac{14}{43}, \frac{9}{43}, -\frac{13}{43}, \frac{16}{43})$ $+ \frac{4}{43}\sqrt{187}e^3 \otimes e_6$	{123, 1235, 1567, 167, 256, 26, 357, 37}
72:3	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{133}e^{12}, \frac{1}{37}\sqrt{95}e^{13} + \frac{1}{37}\sqrt{95}e^{24}$	$(\frac{9}{37}, \frac{9}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{4}{37}, \frac{18}{37}, -\frac{1}{37})$ $+ \frac{1}{37}\sqrt{627}e^1 \otimes e_3 - \frac{1}{37}\sqrt{627}e^2 \otimes e_4$	{12, 125, 1456, 146, 34, 345}
72:3	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{133}e^{12}, \frac{1}{37}\sqrt{95}e^{13} + \frac{1}{37}\sqrt{95}e^{24}$	$(\frac{9}{37}, \frac{9}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{4}{37}, \frac{18}{37}, -\frac{1}{37})$ $+ \frac{1}{37}\sqrt{627}e^1 \otimes e_3 + \frac{1}{37}\sqrt{627}e^2 \otimes e_4$	{12, 125, 1456, 146, 34, 345}
72:3	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{17}e^{12}, \frac{1}{14}\sqrt{170}e^{13} + \frac{1}{14}\sqrt{17}e^{24}$	$(-\frac{3}{28}, \frac{2}{7}, \frac{9}{14}, \frac{1}{4}, -\frac{4}{7}, \frac{5}{28}, \frac{15}{28})$ $+ \frac{1}{14}\sqrt{374}e^3 \otimes e_5$	{1236, 124567, 134, 157, 2347, 25, 367, 456}
72:4	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{13} + \frac{1}{5}\sqrt{5}e^{24}, -\frac{1}{5}\sqrt{15}e^{12} + \frac{1}{5}\sqrt{5}e^{34}$	$(\frac{2}{5}, 0, 0, \frac{2}{5}, -\frac{3}{5}, \frac{2}{5}, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_5$	{123, 1246, 167, 234567, 257, 45, 123, 1246, 167, 234567, 257, 45}
72:4	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{13} + \frac{1}{5}\sqrt{5}e^{24}, \frac{1}{5}\sqrt{15}e^{12} + \frac{1}{5}\sqrt{5}e^{34}$	$(\frac{2}{5}, 0, 0, \frac{2}{5}, -\frac{3}{5}, \frac{2}{5}, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_5$	{123, 1246, 167, 234567, 257, 45, 123, 1246, 167, 234567, 257, 45}
72:4	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{13} + \frac{1}{5}\sqrt{15}e^{24}, -\frac{1}{5}\sqrt{5}e^{12} + \frac{1}{5}\sqrt{5}e^{34}$	$(0, 0, 0, 0, 1, 0, 0)$ $+ \frac{2}{5}\sqrt{10}e^5 \otimes e_6$	{123457, 1267, 135, 146, 57, 123457, 1267, 135, 146, 57}
72:4	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{13} + \frac{1}{5}\sqrt{15}e^{24}, \frac{1}{5}\sqrt{5}e^{12} + \frac{1}{5}\sqrt{5}e^{34}$	$(0, 0, 0, 0, 1, 0, 0)$ $+ \frac{2}{5}\sqrt{10}e^5 \otimes e_6$	{123457, 1267, 135, 146, 57, 123457, 1267, 135, 146, 57}
72:5	$0, 0, 0, 0, 0, \frac{6}{553}\sqrt{1910}e^{12}, \frac{4}{553}\sqrt{4393}e^{13} + \frac{4}{553}\sqrt{191}e^{45}$	$(-\frac{102}{553}, -\frac{10}{553}, \frac{270}{553}, \frac{275}{553}, -\frac{107}{553}, -\frac{16}{79}, \frac{24}{79})$ $+ \frac{2}{553}\sqrt{53862}e^3 \otimes e_6 + \frac{382}{553}e^4 \otimes e_5$	{1234, 1235, 246, 256}
72:5	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{46}e^{12}, \frac{1}{19}\sqrt{322}e^{13} + \frac{1}{19}\sqrt{46}e^{45}$	$(\frac{13}{19}, -\frac{10}{19}, -\frac{3}{19}, \frac{5}{19}, \frac{5}{19}, \frac{3}{19}, \frac{10}{19})$ $+ \frac{1}{19}\sqrt{690}e^1 \otimes e_2$	{134, 1457, 17, 23457, 237, 24}
72:5	$0, 0, 0, 0, 0, \frac{44}{573}\sqrt{46}e^{12}, \frac{22}{573}\sqrt{21}e^{13} + \frac{22}{573}\sqrt{113}e^{45}$	$(\frac{88}{573}, \frac{176}{573}, -\frac{154}{573}, -\frac{11}{191}, -\frac{11}{191}, \frac{88}{191}, -\frac{22}{191})$ $+ \frac{22}{573}\sqrt{213}e^1 \otimes e_3 + \frac{44}{573}\sqrt{70}e^2 \otimes e_7$	{1467, 347}
72:5	$0, 0, 0, 0, 0, \frac{11}{1487}\sqrt{1066}e^{12}, \frac{44}{1487}\sqrt{14}e^{13} + \frac{44}{1487}\sqrt{53}e^{45}$	$(\frac{44}{1487}, \frac{88}{1487}, -\frac{77}{1487}, -\frac{286}{1487}, \frac{253}{1487}, \frac{132}{1487}, -\frac{33}{1487})$ $+ \frac{11}{1487}\sqrt{654}e^1 \otimes e_3 + \frac{11}{1487}\sqrt{966}e^2 \otimes e_7 + \frac{77}{1487}\sqrt{22}e^5 \otimes e_6$	{1245, 236}
72:5	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{345}e^{12}, \frac{20}{197}\sqrt{2}e^{13} + \frac{4}{197}\sqrt{345}e^{45}$	$(-\frac{35}{197}, \frac{39}{197}, \frac{34}{197}, \frac{44}{197}, -\frac{45}{197}, \frac{4}{197}, -\frac{1}{197})$ $+ \frac{4}{197}\sqrt{445}e^4 \otimes e_6 + \frac{8}{197}\sqrt{105}e^2 \otimes e_7$	{1245, 13567, 236, 47}
72:5	$0, 0, 0, 0, 0, \frac{4}{5}e^{12}, \frac{2}{5}\sqrt{2}e^{13} + \frac{4}{5}e^{45}$	$(0, -\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{2}{5})$ $+ \frac{4}{5}\sqrt{2}e^4 \otimes e_6$	{12347, 1245, 13567, 16, 236, 2567, 345, 47}
72:5	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{11}e^{12}, \frac{2}{29}\sqrt{22}e^{13} + \frac{4}{29}\sqrt{11}e^{45}$	$(\frac{4}{29}, \frac{5}{29}, \frac{6}{29}, \frac{27}{29}, -\frac{17}{29}, \frac{9}{29}, \frac{10}{29})$ $+ \frac{44}{29}e^4 \otimes e_5$	{1247, 1257, 1467, 1567, 23467, 23567, 347, 357}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:5	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{53}e^{12}, \frac{1}{21}\sqrt{106}e^{13} + \frac{2}{21}\sqrt{53}e^{45}$	$(-\frac{13}{63}, \frac{5}{7}, \frac{5}{63}, -\frac{4}{63}, -\frac{4}{63}, \frac{32}{63}, -\frac{8}{63})$ $+ \frac{1}{9}\sqrt{106}e^2 \otimes e_7$	{123, 12345, 1467, 2456, 26, 347}
72:5	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{30}e^{13} + \frac{2}{15}\sqrt{5}e^{45}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, 0)$ $+ \frac{1}{15}\sqrt{70}e^2 \otimes e_7 - \frac{2}{15}\sqrt{15}e^3 \otimes e_6$	{123, 12345, 1467, 2456, 26, 347}
72:5	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{30}e^{13} + \frac{2}{15}\sqrt{5}e^{45}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, 0)$ $+ \frac{1}{15}\sqrt{70}e^2 \otimes e_7 + \frac{2}{15}\sqrt{15}e^3 \otimes e_6$	{123, 12345, 1467, 2456, 26, 347}
72:5	$0, 0, 0, 0, 0, \frac{3}{181}\sqrt{1910}e^{12}, \frac{2}{181}\sqrt{4393}e^{13} + \frac{2}{181}\sqrt{191}e^{45}$	$(-\frac{51}{181}, -\frac{5}{181}, \frac{135}{181}, \frac{42}{181}, \frac{42}{181}, -\frac{56}{181}, \frac{84}{181})$ $+ \frac{1}{181}\sqrt{53862}e^3 \otimes e_6$	{1234, 14567, 167, 246, 3457, 37}
72:5	$0, 0, 0, 0, 0, \frac{4}{193}\sqrt{646}e^{12}, \frac{2}{193}\sqrt{1190}e^{13} + \frac{4}{193}\sqrt{442}e^{45}$	$(\frac{54}{193}, -\frac{53}{193}, -\frac{14}{193}, \frac{69}{193}, -\frac{29}{193}, \frac{1}{193}, \frac{40}{193})$ $+ \frac{24}{193}\sqrt{17}e^1 \otimes e_3 + \frac{28}{193}\sqrt{17}e^4 \otimes e_6$	{1245, 16, 236, 345}
72:5	$0, 0, 0, 0, 0, \frac{22}{347}\sqrt{46}e^{12}, \frac{11}{347}\sqrt{21}e^{13} + \frac{11}{347}\sqrt{113}e^{45}$	$(\frac{44}{347}, \frac{88}{347}, -\frac{77}{347}, -\frac{77}{347}, \frac{44}{347}, \frac{132}{347}, -\frac{33}{347})$ $+ \frac{11}{347}\sqrt{213}e^1 \otimes e_3 - \frac{121}{347}e^5 \otimes e_4 + \frac{22}{347}\sqrt{70}e^2 \otimes e_7$	{1467, 1567, 347, 357}
72:5	$0, 0, 0, 0, 0, \frac{22}{347}\sqrt{46}e^{12}, \frac{11}{347}\sqrt{21}e^{13} + \frac{11}{347}\sqrt{113}e^{45}$	$(\frac{44}{347}, \frac{88}{347}, -\frac{77}{347}, -\frac{77}{347}, \frac{44}{347}, \frac{132}{347}, -\frac{33}{347})$ $+ \frac{11}{347}\sqrt{213}e^1 \otimes e_3 + \frac{121}{347}e^5 \otimes e_4 + \frac{22}{347}\sqrt{70}e^2 \otimes e_7$	{1467, 1567, 347, 357}
72:5	$0, 0, 0, 0, 0, \frac{32}{189}\sqrt{3}e^{12}, \frac{8}{189}\sqrt{186}e^{13} + \frac{8}{189}\sqrt{39}e^{45}$	$(\frac{8}{63}, -\frac{8}{21}, \frac{16}{63}, \frac{4}{21}, \frac{4}{21}, -\frac{16}{63}, \frac{8}{21})$ $+ \frac{8}{189}\sqrt{237}e^1 \otimes e_2 + \frac{8}{63}\sqrt{29}e^3 \otimes e_6$	{14567, 167, 246}
72:5	$0, 0, 0, 0, 0, \frac{32}{237}\sqrt{3}e^{12}, \frac{8}{237}\sqrt{186}e^{13} + \frac{8}{237}\sqrt{39}e^{45}$	$(\frac{8}{79}, -\frac{24}{79}, \frac{16}{79}, -\frac{4}{79}, \frac{28}{79}, -\frac{16}{79}, \frac{24}{79})$ $+ \frac{32}{79}e^5 \otimes e_4 + \frac{8}{237}\sqrt{237}e^1 \otimes e_2 + \frac{8}{79}\sqrt{29}e^3 \otimes e_6$	{246, 256}
72:5	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{10}e^{12}, \frac{2}{35}\sqrt{30}e^{13} + \frac{4}{35}\sqrt{5}e^{45}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{2}{35}\sqrt{70}e^2 \otimes e_7 + \frac{2}{7}e^5 \otimes e_4 + \frac{4}{35}\sqrt{15}e^3 \otimes e_6$	{1467, 1567, 347, 357}
72:5	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{10}e^{12}, \frac{2}{35}\sqrt{30}e^{13} + \frac{4}{35}\sqrt{5}e^{45}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{2}{35}\sqrt{70}e^2 \otimes e_7 + \frac{2}{7}e^5 \otimes e_4 - \frac{4}{35}\sqrt{15}e^3 \otimes e_6$	{1467, 1567, 347, 357}
72:5	$0, 0, 0, 0, 0, \frac{8}{89}\sqrt{106}e^{12}, \frac{2}{89}\sqrt{371}e^{13} + \frac{6}{89}\sqrt{53}e^{45}$	$(\frac{64}{89}, -\frac{12}{89}, -\frac{42}{89}, \frac{11}{89}, \frac{11}{89}, \frac{52}{89}, \frac{22}{89})$ $+ \frac{2}{89}\sqrt{3657}e^1 \otimes e_3$	{12, 1245, 1456, 16, 23456, 236, 3, 345}
72:5	$0, 0, 0, 0, 0, \frac{2}{61}\sqrt{46}e^{12}, \frac{2}{61}\sqrt{322}e^{13} + \frac{2}{61}\sqrt{46}e^{45}$	$(\frac{26}{61}, -\frac{20}{61}, -\frac{6}{61}, \frac{33}{61}, -\frac{13}{61}, \frac{6}{61}, \frac{20}{61})$ $+ \frac{2}{61}\sqrt{690}e^1 \otimes e_2 + \frac{46}{61}e^4 \otimes e_5$	{134, 135, 24, 25}
72:5	$0, 0, 0, 0, 0, \frac{12}{179}\sqrt{53}e^{12}, \frac{6}{179}\sqrt{106}e^{13} + \frac{12}{179}\sqrt{53}e^{45}$	$(-\frac{26}{179}, \frac{90}{179}, \frac{10}{179}, \frac{45}{179}, -\frac{61}{179}, \frac{64}{179}, -\frac{16}{179})$ $+ \frac{106}{179}e^4 \otimes e_5 + \frac{14}{179}\sqrt{106}e^2 \otimes e_7$	{1467, 1567, 347, 357}
72:6	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{42}e^{13} + \frac{3}{13}\sqrt{2}e^{24}, \frac{1}{13}\sqrt{42}e^{12} + \frac{3}{13}\sqrt{2}e^{35}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, -\frac{3}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{3}{13})$ $+ \frac{1}{13}\sqrt{102}e^2 \otimes e_4 + \frac{1}{13}\sqrt{102}e^3 \otimes e_5$	{123, 45}
72:6	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{10}e^{13} + \frac{3}{25}\sqrt{10}e^{24}, \frac{1}{25}\sqrt{10}e^{12} + \frac{3}{25}\sqrt{10}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0)$ $+ \frac{1}{25}\sqrt{110}e^4 \otimes e_7 + \frac{1}{25}\sqrt{110}e^5 \otimes e_6$	{12367, 2345}
72:6	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{26}e^{13} + \frac{4}{43}\sqrt{13}e^{24}, \frac{8}{43}\sqrt{26}e^{12} + \frac{4}{43}\sqrt{13}e^{35}$	$(-\frac{6}{43}, \frac{29}{43}, \frac{12}{43}, -\frac{23}{43}, \frac{11}{43}, \frac{6}{43}, \frac{23}{43})$ $+ \frac{4}{43}\sqrt{221}e^2 \otimes e_4$	{125, 147, 2357, 34}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
72:6	$0, 0, 0, 0, 0, \frac{10}{137}\sqrt{62}e^{13} + \frac{40}{137}\sqrt{6}e^{24}, \frac{40}{137}\sqrt{3}e^{12} + \frac{40}{137}\sqrt{6}e^{35}$	$(\frac{34}{137}, -\frac{45}{137}, \frac{10}{137}, \frac{89}{137}, -\frac{21}{137}, \frac{44}{137}, -\frac{11}{137})$ $+ \frac{20}{137}\sqrt{55}e^4 \otimes e_7$	{124, 157, 2567, 46}
72:6	$0, 0, 0, 0, 0, \frac{21}{83}\sqrt{2}e^{13} + \frac{42}{83}e^{24}, \frac{7}{83}\sqrt{6}e^{12} + \frac{42}{83}e^{35}$	$(\frac{7}{83}, \frac{21}{83}, -\frac{14}{83}, -\frac{28}{83}, \frac{42}{83}, -\frac{7}{83}, \frac{28}{83})$ $+ \frac{7}{83}\sqrt{46}e^2 \otimes e_4 + \frac{7}{83}\sqrt{94}e^5 \otimes e_6$	{146, 3467}
71:1	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{66}e^{12}$	$(-\frac{2}{29}, -\frac{2}{29}, \frac{15}{29}, \frac{18}{29}, -\frac{7}{29}, \frac{4}{29}, -\frac{4}{29})$ $+ \frac{22}{29}e^3 \otimes e_5 + \frac{2}{29}\sqrt{154}e^4 \otimes e_7$	{1234, 12346, 1245, 12456, 1367, 137, 1567, 157, 34, 346, 45, 456}
71:1	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{10}e^{12}$	$(\frac{2}{23}, \frac{2}{23}, \frac{13}{23}, \frac{13}{23}, -\frac{7}{23}, -\frac{7}{23}, \frac{4}{23})$ $+ \frac{20}{23}e^3 \otimes e_5 + \frac{20}{23}e^4 \otimes e_6$	{1234, 1236, 1256, 1347, 1367, 1567, 34, 36, 56}
71:1	$0, 0, 0, 0, 0, \frac{1}{69}\sqrt{874}e^{12}$	$(\frac{4}{69}, \frac{4}{69}, -\frac{5}{23}, -\frac{5}{23}, \frac{9}{23}, \frac{2}{23}, \frac{8}{69})$ $+ \frac{1}{69}\sqrt{798}e^1 \otimes e_3 + \frac{1}{69}\sqrt{798}e^2 \otimes e_4 + \frac{1}{69}\sqrt{798}e^5 \otimes e_7$	{125, 1256, 1467, 147, 345, 3456}
71:1	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{10}e^{12}$	$(\frac{12}{23}, -\frac{8}{23}, \frac{13}{23}, -\frac{7}{23}, \frac{3}{23}, \frac{3}{23}, \frac{4}{23})$ $+ \frac{20}{23}e^1 \otimes e_2 + \frac{20}{23}e^3 \otimes e_4$	{13567, 1357, 137, 14567, 1457, 147, 23567, 2357, 237, 24567, 2457, 247}
71:1	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{13}e^{12}$	$(\frac{11}{61}, \frac{11}{61}, -\frac{15}{61}, -\frac{15}{61}, \frac{19}{61}, -\frac{7}{61}, \frac{22}{61})$ $+ \frac{26}{61}e^5 \otimes e_6 + \frac{2}{61}\sqrt{273}e^1 \otimes e_3 + \frac{2}{61}\sqrt{273}e^2 \otimes e_4$	{125, 126, 1457, 1467, 345, 346}
71:1	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{66}e^{12}$	$(\frac{9}{40}, -\frac{13}{40}, \frac{3}{8}, -\frac{7}{40}, \frac{9}{20}, \frac{1}{10}, -\frac{1}{10})$ $+ \frac{11}{20}e^1 \otimes e_2 + \frac{11}{20}e^3 \otimes e_4 + \frac{1}{20}\sqrt{154}e^5 \otimes e_7$	{1367, 137, 1467, 147, 2367, 237, 2467, 247}
71:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{13}e^{12}$	$(\frac{11}{48}, \frac{11}{48}, -\frac{5}{16}, -\frac{5}{16}, \frac{1}{8}, \frac{1}{8}, \frac{11}{24})$ $+ \frac{1}{24}\sqrt{273}e^1 \otimes e_3 + \frac{1}{24}\sqrt{273}e^2 \otimes e_4$	{12, 125, 1256, 14567, 1457, 147, 34, 345, 3456}
71:1	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{66}e^{12}$	$(\frac{12}{29}, -\frac{2}{29}, \frac{15}{29}, -\frac{10}{29}, -\frac{7}{29}, \frac{4}{29}, \frac{10}{29})$ $+ \frac{22}{29}e^3 \otimes e_5 + \frac{2}{29}\sqrt{154}e^1 \otimes e_4$	{123, 1236, 125, 1256, 1367, 137, 1567, 157, 23467, 2347, 24567, 2457, 34, 346, 45, 456}
71:1	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{66}e^{12}$	$(\frac{9}{29}, -\frac{13}{29}, \frac{18}{29}, \frac{4}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{4}{29})$ $+ \frac{22}{29}e^1 \otimes e_2 + \frac{2}{29}\sqrt{154}e^3 \otimes e_7$	{14567, 1457, 147, 17, 24567, 2457, 247, 27}
71:1	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{66}e^{12}$	$(\frac{2}{3}, -\frac{1}{9}, -\frac{5}{9}, \frac{2}{9}, \frac{2}{9}, \frac{5}{9})$ $+ \frac{1}{9}\sqrt{154}e^1 \otimes e_3$	{12, 124, 1245, 12456, 14567, 1457, 147, 17, 234567, 23457, 2347, 237, 3, 34, 345, 3456}
71:1	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{13}e^{12}$	$(\frac{11}{61}, -\frac{10}{61}, \frac{19}{61}, -\frac{15}{61}, \frac{27}{61}, -\frac{7}{61}, \frac{1}{61})$ $+ \frac{26}{61}e^3 \otimes e_6 + \frac{2}{61}\sqrt{273}e^1 \otimes e_4 + \frac{2}{61}\sqrt{273}e^5 \otimes e_7$	{1235, 1256, 137, 167, 2347, 2467, 345, 456}
71:1	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{10}e^{12}$	$(\frac{2}{13}, \frac{2}{13}, 1, -\frac{7}{13}, \frac{3}{13}, \frac{3}{13}, \frac{4}{13})$ $+ \frac{20}{13}e^3 \otimes e_4$	{123, 1235, 12356, 124, 1245, 12456, 13567, 1357, 137, 14567, 1457, 147, 3, 35, 356, 4, 45, 456}
71:1	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{10}e^{12}$	$(\frac{12}{13}, -\frac{8}{13}, \frac{3}{13}, \frac{3}{13}, \frac{3}{13}, \frac{3}{13}, \frac{4}{13})$ $+ \frac{20}{13}e^1 \otimes e_2$	{134567, 13457, 1347, 137, 17, 234567, 23457, 2347, 237, 27}
71:1	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{66}e^{12}$	$(-\frac{1}{9}, -\frac{1}{9}, 1, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, -\frac{2}{9})$ $+ \frac{1}{9}\sqrt{154}e^3 \otimes e_7$	{123, 1234, 12345, 123456, 14567, 1457, 147, 17, 3, 34, 345, 3456}
71:1	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{10}e^{12}$	$(\frac{4}{11}, -\frac{8}{33}, \frac{13}{33}, -\frac{7}{33}, \frac{13}{33}, -\frac{7}{33}, \frac{4}{33})$ $+ \frac{20}{33}e^1 \otimes e_2 + \frac{20}{33}e^3 \otimes e_4 + \frac{20}{33}e^5 \otimes e_6$	{1357, 1367, 1467, 2357, 2367, 2467}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
71:1	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{13}e^{12}$	$(\frac{11}{48}, -\frac{5}{24}, \frac{9}{16}, -\frac{5}{16}, \frac{1}{8}, \frac{1}{8}, \frac{1}{48})$ $+\frac{1}{24}\sqrt{273}e^1 \otimes e_4 + \frac{1}{24}\sqrt{273}e^3 \otimes e_7$	{123, 1235, 12356, 1567, 157, 17, 24567, 2457, 247, 34, 345, 3456}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{13}e^{12} + \frac{1}{15}\sqrt{13}e^{34}$	$(\frac{8}{15}, -\frac{1}{3}, \frac{8}{15}, -\frac{1}{3}, \frac{2}{15}, \frac{2}{15}, \frac{1}{5})$ $+\frac{13}{15}e^1 \otimes e_2 - \frac{13}{15}e^3 \otimes e_4$	{13567, 1357, 137, 14567, 1457, 147, 24567, 2457, 247}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{13}e^{12} + \frac{1}{15}\sqrt{13}e^{34}$	$(\frac{8}{15}, -\frac{1}{3}, \frac{8}{15}, -\frac{1}{3}, \frac{2}{15}, \frac{2}{15}, \frac{1}{5})$ $+\frac{13}{15}e^1 \otimes e_2 + \frac{13}{15}e^3 \otimes e_4$	{13567, 1357, 137, 14567, 1457, 147, 24567, 2457, 247}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12} + \frac{1}{7}\sqrt{10}e^{34}$	$(\frac{3}{7}, 0, \frac{3}{7}, 0, -\frac{2}{7}, -\frac{2}{7}, \frac{3}{7})$ $+\frac{1}{7}\sqrt{30}e^1 \otimes e_5 + \frac{1}{7}\sqrt{30}e^3 \otimes e_6$	{1234, 126, 137, 1467, 24567, 56}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{13}e^{12} + \frac{1}{15}\sqrt{13}e^{34}$	$(\frac{8}{15}, -\frac{1}{3}, \frac{1}{10}, \frac{1}{10}, \frac{17}{30}, -\frac{3}{10}, \frac{1}{5})$ $+\frac{13}{15}e^1 \otimes e_2 + \frac{13}{15}e^5 \otimes e_6$	{1357, 1367, 2357, 2367}
71:2	$0, 0, 0, 0, 0, 0, \frac{3}{37}\sqrt{19}e^{12} + \frac{3}{37}\sqrt{19}e^{34}$	$(\frac{9}{37}, -\frac{10}{37}, \frac{9}{37}, -\frac{10}{37}, \frac{18}{37}, \frac{4}{37}, -\frac{1}{37})$ $+\frac{19}{37}e^1 \otimes e_2 + \frac{19}{37}e^3 \otimes e_4 + \frac{2}{37}\sqrt{133}e^5 \otimes e_7$	{1367, 137, 1467, 147, 2467, 247}
71:2	$0, 0, 0, 0, 0, 0, \frac{3}{37}\sqrt{19}e^{12} + \frac{3}{37}\sqrt{19}e^{34}$	$(\frac{9}{37}, -\frac{10}{37}, \frac{9}{37}, -\frac{10}{37}, \frac{18}{37}, \frac{4}{37}, -\frac{1}{37})$ $+\frac{19}{37}e^1 \otimes e_2 - \frac{19}{37}e^3 \otimes e_4 + \frac{2}{37}\sqrt{133}e^5 \otimes e_7$	{1367, 137, 1467, 147, 2467, 247}
71:2	$0, 0, 0, 0, 0, 0, \frac{2}{37}\sqrt{14}e^{12} + \frac{8}{37}\sqrt{7}e^{34}$	$(\frac{20}{37}, -\frac{8}{37}, \frac{15}{37}, -\frac{3}{37}, -\frac{13}{37}, \frac{5}{37}, \frac{12}{37})$ $+\frac{12}{37}\sqrt{7}e^3 \otimes e_5 + \frac{28}{37}e^1 \otimes e_2$	{134, 1346, 15, 156, 234, 2346, 25, 256}
71:2	$0, 0, 0, 0, 0, 0, \frac{8}{23}\sqrt{7}e^{12} + \frac{2}{23}\sqrt{14}e^{34}$	$(\frac{15}{23}, -\frac{3}{23}, \frac{6}{23}, \frac{6}{23}, -\frac{13}{23}, \frac{5}{23}, \frac{12}{23})$ $+\frac{12}{23}\sqrt{7}e^1 \otimes e_5$	{123, 1236, 13467, 1347, 167, 17, 234567, 23457, 2567, 257, 35, 356}
71:2	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{13}e^{12} + \frac{2}{17}\sqrt{13}e^{34}$	$(\frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, 1, -\frac{9}{17}, \frac{6}{17})$ $+\frac{26}{17}e^5 \otimes e_6$	{12345, 12346, 125, 126, 1357, 1367, 5, 6}
71:2	$0, 0, 0, 0, 0, 0, \frac{8}{61}\sqrt{22}e^{12} + \frac{8}{61}\sqrt{5}e^{34}$	$(\frac{12}{61}, \frac{12}{61}, \frac{12}{61}, \frac{12}{61}, -\frac{20}{61}, -\frac{20}{61}, \frac{24}{61})$ $+\frac{24}{61}\sqrt{3}e^1 \otimes e_5 + \frac{24}{61}\sqrt{3}e^2 \otimes e_6$	{123, 13467, 167, 356}
71:2	$0, 0, 0, 0, 0, 0, \frac{6}{55}\sqrt{19}e^{12} + \frac{6}{55}\sqrt{19}e^{34}$	$(\frac{18}{55}, -\frac{4}{11}, -\frac{1}{55}, -\frac{1}{55}, \frac{36}{55}, \frac{8}{55}, -\frac{2}{55})$ $+\frac{38}{55}e^1 \otimes e_2 + \frac{4}{55}\sqrt{133}e^5 \otimes e_7$	{1367, 137, 2367, 237}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{19}e^{12} + \frac{1}{6}\sqrt{19}e^{34}$	$(-\frac{1}{36}, -\frac{1}{36}, -\frac{1}{36}, -\frac{1}{36}, 1, \frac{2}{9}, -\frac{1}{18})$ $+\frac{1}{9}\sqrt{133}e^5 \otimes e_7$	{12345, 123456, 125, 1256, 1367, 137, 5, 56}
71:2	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{13}e^{12} + \frac{2}{17}\sqrt{13}e^{34}$	$(\frac{16}{17}, -\frac{10}{17}, \frac{3}{17}, \frac{3}{17}, \frac{4}{17}, \frac{4}{17}, \frac{6}{17})$ $+\frac{26}{17}e^1 \otimes e_2$	{13567, 1357, 137, 23567, 2357, 237}
71:2	$0, 0, 0, 0, 0, 0, \frac{1}{229}\sqrt{16422}e^{12} + \frac{2}{229}\sqrt{1309}e^{34}$	$(\frac{55}{229}, -\frac{39}{229}, \frac{8}{229}, \frac{8}{229}, \frac{135}{229}, -\frac{64}{229}, \frac{16}{229})$ $+\frac{2}{229}\sqrt{5593}e^1 \otimes e_6 + \frac{7}{229}\sqrt{510}e^5 \otimes e_7$	{12345, 125, 137, 2367, 3456, 56}
71:2	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{13}e^{12} + \frac{2}{43}\sqrt{13}e^{34}$	$(\frac{16}{43}, -\frac{10}{43}, \frac{16}{43}, -\frac{10}{43}, \frac{17}{43}, -\frac{9}{43}, \frac{6}{43})$ $+\frac{26}{43}e^1 \otimes e_2 - \frac{26}{43}e^3 \otimes e_4 + \frac{26}{43}e^5 \otimes e_6$	{1357, 1367, 1457, 1467, 2457, 2467}
71:2	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{13}e^{12} + \frac{2}{43}\sqrt{13}e^{34}$	$(\frac{16}{43}, -\frac{10}{43}, \frac{16}{43}, -\frac{10}{43}, \frac{17}{43}, -\frac{9}{43}, \frac{6}{43})$ $+\frac{26}{43}e^1 \otimes e_2 + \frac{26}{43}e^3 \otimes e_4 + \frac{26}{43}e^5 \otimes e_6$	{1357, 1367, 1457, 1467, 2457, 2467}

Table B – Continued to next page

Table B – Continued from previous page

Name Δ	g	D	S
71:2	$0, 0, 0, 0, 0, 0, \frac{4}{577}\sqrt{1309}e^{12} + \frac{2}{577}\sqrt{16422}e^{34}$	$\left(\frac{135}{577}, -\frac{103}{577}, \frac{110}{577}, -\frac{78}{577}, \frac{270}{577}, -\frac{128}{577}, \frac{32}{577}\right)$ $+ \frac{14}{577}\sqrt{510}e^5 \otimes e_7 + \frac{238}{577}e^1 \otimes e_2 + \frac{4}{577}\sqrt{5593}e^3 \otimes e_6$	{137, 1467, 237, 2467}
71:3	$0, 0, 0, 0, 0, 0, \frac{8}{21}e^{12} + \frac{8}{21}e^{34} + \frac{8}{21}e^{56}$	$\left(\frac{20}{21}, -\frac{4}{7}, \frac{4}{21}, \frac{4}{21}, \frac{4}{21}, \frac{4}{21}, \frac{8}{21}\right)$ $+ \frac{32}{21}e^1 \otimes e_2$	{1357, 2357}
71:3	$0, 0, 0, 0, 0, 0, \frac{8}{37}e^{12} + \frac{8}{37}e^{34} + \frac{8}{37}e^{56}$	$\left(\frac{20}{37}, -\frac{12}{37}, \frac{20}{37}, -\frac{12}{37}, \frac{4}{37}, \frac{4}{37}, \frac{8}{37}\right)$ $+ \frac{32}{37}e^1 \otimes e_2 + \frac{32}{37}e^3 \otimes e_4$	{1357, 1457, 2457}
71:3	$0, 0, 0, 0, 0, 0, \frac{8}{37}e^{12} + \frac{8}{37}e^{34} + \frac{8}{37}e^{56}$	$\left(\frac{20}{37}, -\frac{12}{37}, \frac{20}{37}, -\frac{12}{37}, \frac{4}{37}, \frac{4}{37}, \frac{8}{37}\right)$ $+ \frac{32}{37}e^1 \otimes e_2 - \frac{32}{37}e^3 \otimes e_4$	{1357, 1457, 2457}
71:3	$0, 0, 0, 0, 0, 0, \frac{8}{53}e^{12} + \frac{8}{53}e^{34} + \frac{8}{53}e^{56}$	$\left(\frac{20}{53}, -\frac{12}{53}, \frac{20}{53}, -\frac{12}{53}, \frac{20}{53}, -\frac{12}{53}, \frac{8}{53}\right)$ $+ \frac{32}{53}e^1 \otimes e_2 + \frac{32}{53}e^3 \otimes e_4 + \frac{32}{53}e^5 \otimes e_6$	{1357, 1367, 1467, 2467}
71:3	$0, 0, 0, 0, 0, 0, \frac{8}{53}e^{12} + \frac{8}{53}e^{34} + \frac{8}{53}e^{56}$	$\left(\frac{20}{53}, -\frac{12}{53}, \frac{20}{53}, -\frac{12}{53}, \frac{20}{53}, -\frac{12}{53}, \frac{8}{53}\right)$ $+ \frac{32}{53}e^1 \otimes e_2 + \frac{32}{53}e^3 \otimes e_4 - \frac{32}{53}e^5 \otimes e_6$	{1357, 1367, 1457, 1467, 2457, 2467}
7:1	0, 0, 0, 0, 0, 0	$\left(1, -\frac{5}{9}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}\right)$ $+ \frac{14}{9}e^1 \otimes e_2$	{1, 13, 134, 1345, 13456, 134567, 2, 23, 234, 2345, 23456, 234567}
7:1	0, 0, 0, 0, 0, 0	$\left(\frac{9}{23}, \frac{9}{23}, -\frac{5}{23}, -\frac{5}{23}, \frac{9}{23}, -\frac{5}{23}, \frac{2}{23}\right)$ $+ \frac{14}{23}e^1 \otimes e_3 + \frac{14}{23}e^2 \otimes e_4 + \frac{14}{23}e^5 \otimes e_6$	{125, 1257, 126, 1267, 146, 1467, 346, 3467}
7:1	0, 0, 0, 0, 0, 0	$\left(\frac{9}{16}, \frac{9}{16}, -\frac{5}{16}, -\frac{5}{16}, \frac{1}{8}, \frac{1}{8}, \frac{1}{8}\right)$ $+ \frac{7}{8}e^1 \otimes e_3 + \frac{7}{8}e^2 \otimes e_4$	{12, 125, 1256, 12567, 14, 145, 1456, 14567, 34, 345, 3456, 34567}

End of Table B

C Dimension 8

Table C: Solutions of (1) obtained with Algorithm 1 with $n = 8$

Name Δ	g	D	S
8654321:1	$0, 0, \frac{58}{1919}\sqrt{339}e^{12}, \frac{29}{1919}\sqrt{30}e^{13}, \frac{58}{1919}\sqrt{238}e^{14}, \frac{29}{1919}\sqrt{1410}e^{15},$ $\frac{174}{1919}\sqrt{39}e^{16}, \frac{29}{1919}\sqrt{934}e^{17}$	$\left(\frac{232}{1919}, -\frac{609}{1919}, -\frac{377}{1919}, \frac{145}{1919}, \frac{87}{1919}, \frac{319}{1919}, \frac{29}{101}, \frac{783}{1919}\right)$ $+ \frac{29}{1919}\sqrt{3206}e^1 \otimes e_2$	{1468, 2}
865321:1	$0, 0, \frac{10}{313}\sqrt{302}e^{12}, \frac{10}{313}\sqrt{278}e^{13}, \frac{10}{313}\sqrt{510}e^{23}, \frac{20}{313}\sqrt{47}e^{14},$ $\frac{10}{313}\sqrt{62}e^{16}, \frac{20}{313}\sqrt{118}e^{17}$	$\left(-\frac{40}{313}, \frac{110}{313}, \frac{70}{313}, \frac{30}{313}, \frac{180}{313}, -\frac{10}{313}, -\frac{50}{313}, -\frac{90}{313}\right)$ $+ \frac{10}{313}\sqrt{1042}e^2 \otimes e_8$	{1257, 134568}
86531:1	$0, 0, \frac{40}{1701}\sqrt{177}e^{12}, \frac{40}{1701}\sqrt{327}e^{13}, \frac{1040}{1701}e^{23}, \frac{40}{567}\sqrt{5}e^{14},$ $\frac{80}{1701}\sqrt{127}e^{25}, \frac{40}{1701}\sqrt{617}e^{16}$	$\left(-\frac{200}{1701}, \frac{340}{1701}, \frac{20}{243}, -\frac{20}{567}, \frac{160}{567}, -\frac{260}{1701}, \frac{820}{1701}, -\frac{460}{1701}\right)$ $- \frac{40}{1701}\sqrt{1389}e^2 \otimes e_8$	{1256, 134578, 237, 468}
86531:1	$0, 0, \frac{40}{1701}\sqrt{177}e^{12}, \frac{40}{1701}\sqrt{327}e^{13}, \frac{1040}{1701}e^{23}, \frac{40}{567}\sqrt{5}e^{14},$ $\frac{80}{1701}\sqrt{127}e^{25}, \frac{40}{1701}\sqrt{617}e^{16}$	$\left(-\frac{200}{1701}, \frac{340}{1701}, \frac{20}{243}, -\frac{20}{567}, \frac{160}{567}, -\frac{260}{1701}, \frac{820}{1701}, -\frac{460}{1701}\right)$ $+ \frac{40}{1701}\sqrt{1389}e^2 \otimes e_8$	{1256, 134578, 237, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
86531:1	$0, 0, \frac{2}{91}\sqrt{78}e^{12}, \frac{12}{91}\sqrt{13}e^{13}, \frac{2}{91}\sqrt{39}e^{23}, \frac{1}{91}\sqrt{2262}e^{14},$ $\frac{1}{91}\sqrt{2262}e^{25}, \frac{3}{91}\sqrt{182}e^{16}$	$(\frac{1}{7}, -\frac{1}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{3}{7})$ $+\frac{1}{91}\sqrt{5694}e^1 \otimes e_7$	{136, 57}
854321:1	$0, 0, 0, \frac{6}{35}\sqrt{35}e^{12}, \frac{2}{35}\sqrt{105}e^{14}, \frac{3}{35}\sqrt{14}e^{15}, \frac{3}{35}\sqrt{42}e^{16},$ $\frac{4}{35}\sqrt{21}e^{17}$	$(-\frac{1}{10}, \frac{4}{7}, -\frac{22}{35}, \frac{33}{70}, \frac{13}{35}, \frac{19}{35}, \frac{6}{35}, \frac{1}{14})$ $+\frac{3}{35}\sqrt{266}e^2 \otimes e_3$	{125678, 134, 2457, 368}
854321:1	$0, 0, 0, \frac{4}{49}\sqrt{21}e^{12}, \frac{1}{49}\sqrt{14}e^{14}, \frac{1}{49}\sqrt{266}e^{15}, \frac{2}{49}\sqrt{105}e^{16},$ $\frac{2}{49}\sqrt{119}e^{17}$	$(\frac{1}{14}, -\frac{3}{14}, \frac{3}{7}, -\frac{1}{7}, -\frac{1}{14}, 0, \frac{1}{14}, \frac{1}{7})$ $+\frac{1}{49}\sqrt{434}e^3 \otimes e_8 + \frac{4}{7}e^1 \otimes e_2$	{1357, 23}
854321:1	$0, 0, 0, \frac{4}{35}\sqrt{21}e^{12}, \frac{3}{35}\sqrt{42}e^{14}, \frac{3}{35}\sqrt{14}e^{15}, \frac{2}{35}\sqrt{105}e^{16},$ $\frac{6}{35}\sqrt{35}e^{17}$	$(-\frac{1}{10}, \frac{3}{10}, 1, \frac{1}{5}, \frac{1}{10}, 0, -\frac{1}{10}, -\frac{1}{5})$ $+\frac{3}{35}\sqrt{266}e^3 \otimes e_8$	{124568, 137, 235, 4678}
854321:1	$0, 0, 0, \frac{48}{1055}\sqrt{145}e^{12}, \frac{48}{1055}\sqrt{59}e^{14}, \frac{72}{1055}\sqrt{78}e^{15}, \frac{24}{1055}\sqrt{818}e^{16},$ $\frac{48}{1055}\sqrt{146}e^{17}$	$(\frac{35}{211}, -\frac{401}{1055}, \frac{182}{1055}, -\frac{226}{1055}, -\frac{51}{1055}, \frac{124}{1055}, \frac{299}{1055}, \frac{474}{1055})$ $+\frac{72}{1055}\sqrt{194}e^1 \otimes e_2$	{1357, 157, 2, 23}
854321:1	$0, 0, 0, \frac{40}{157}\sqrt{2}e^{12}, \frac{10}{157}\sqrt{17}e^{14}, \frac{20}{157}\sqrt{3}e^{15}, \frac{10}{157}\sqrt{17}e^{16},$ $\frac{40}{157}\sqrt{2}e^{17}$	$(-\frac{10}{157}, \frac{45}{157}, -\frac{60}{157}, \frac{35}{157}, \frac{25}{157}, \frac{15}{157}, \frac{5}{157}, -\frac{5}{157})$ $+\frac{10}{157}\sqrt{57}e^2 \otimes e_8 + \frac{40}{157}\sqrt{5}e^1 \otimes e_3$	{1257, 1468}
854321:1	$0, 0, 0, \frac{11}{37}\sqrt{2}e^{12}, \frac{44}{185}\sqrt{5}e^{14}, \frac{33}{185}\sqrt{10}e^{15}, \frac{44}{185}\sqrt{5}e^{16},$ $\frac{11}{37}\sqrt{2}e^{17}$	$(\frac{2}{37}, \frac{12}{185}, -\frac{3}{5}, \frac{22}{185}, \frac{32}{185}, \frac{42}{185}, \frac{52}{185}, \frac{62}{185})$ $+\frac{22}{185}\sqrt{74}e^1 \otimes e_3$	{1257, 1468, 2345678, 3}
854321:1	$0, 0, 0, \frac{40}{331}\sqrt{42}e^{12}, \frac{30}{331}\sqrt{7}e^{14}, \frac{20}{331}\sqrt{77}e^{15}, \frac{30}{331}\sqrt{7}e^{16},$ $\frac{40}{331}\sqrt{42}e^{17}$	$(-\frac{70}{331}, \frac{235}{331}, \frac{60}{331}, \frac{165}{331}, \frac{95}{331}, \frac{25}{331}, -\frac{45}{331}, -\frac{115}{331})$ $+\frac{10}{331}\sqrt{1897}e^2 \otimes e_8$	{2346, 246, 3578, 578}
854321:2	$0, 0, 0, \frac{51}{727}\sqrt{218}e^{12}, \frac{170}{727}\sqrt{6}e^{14}, \frac{102}{727}\sqrt{7}e^{15}, \frac{51}{727}\sqrt{66}e^{16},$ $\frac{17}{727}\sqrt{426}e^{17} + \frac{102}{727}\sqrt{7}e^{23}$	$(-\frac{85}{727}, \frac{442}{727}, -\frac{425}{727}, \frac{357}{727}, \frac{272}{727}, \frac{187}{727}, \frac{102}{727}, \frac{17}{727})$ $+\frac{51}{727}\sqrt{398}e^2 \otimes e_3$	{134, 2457}
854321:3	$0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{2}{7}\sqrt{5}e^{14}, \frac{1}{7}\sqrt{2}e^{15}, \frac{4}{7}e^{16},$ $\frac{1}{7}\sqrt{34}e^{17} + \frac{2}{7}\sqrt{7}e^{24}$	$(0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{4}{7}\sqrt{5}e^3 \otimes e_8$	{137, 4678}
854321:3	$0, 0, 0, \frac{33}{149}\sqrt{15}e^{12}, \frac{11}{149}\sqrt{11}e^{14}, \frac{11}{149}\sqrt{5}e^{15}, \frac{44}{149}\sqrt{2}e^{16},$ $\frac{11}{149}\sqrt{70}e^{17} + \frac{11}{149}\sqrt{119}e^{24}$	$(\frac{11}{298}, \frac{22}{149}, -\frac{99}{149}, \frac{55}{298}, \frac{33}{149}, \frac{77}{298}, \frac{44}{149}, \frac{99}{298})$ $+\frac{22}{149}\sqrt{62}e^2 \otimes e_3$	{125678, 2457}
854321:3	$0, 0, 0, \frac{41}{2609}\sqrt{690}e^{12}, \frac{328}{2609}\sqrt{19}e^{14}, \frac{123}{2609}\sqrt{138}e^{15},$ $\frac{164}{2609}\sqrt{69}e^{16}, \frac{41}{2609}\sqrt{802}e^{17} + \frac{164}{2609}\sqrt{21}e^{24}$	$(\frac{82}{2609}, \frac{328}{2609}, -\frac{1599}{2609}, \frac{410}{2609}, \frac{492}{2609}, \frac{574}{2609}, \frac{656}{2609}, \frac{738}{2609})$ $+\frac{164}{2609}\sqrt{263}e^1 \otimes e_3$	{1257, 2345678}
85421:1	$0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{6}e^{14}, \frac{1}{5}\sqrt{6}e^{24}, \frac{1}{5}\sqrt{6}e^{15},$ $\frac{2}{5}\sqrt{6}e^{17}$	$(-\frac{1}{10}, \frac{1}{5}, 1, \frac{1}{10}, 0, \frac{3}{10}, -\frac{1}{10}, -\frac{1}{5})$ $+\frac{4}{5}\sqrt{3}e^3 \otimes e_8$	{12458, 137, 25678, 346}
85421:1	$0, 0, 0, \frac{6}{1385}\sqrt{13462}e^{12}, \frac{6}{1385}\sqrt{20829}e^{14}, \frac{12}{1385}\sqrt{530}e^{24},$ $\frac{6}{1385}\sqrt{19981}e^{15}, \frac{6}{1385}\sqrt{13038}e^{17}$	$(\frac{23}{277}, \frac{59}{1385}, -\frac{839}{1385}, \frac{174}{1385}, \frac{289}{1385}, \frac{233}{1385}, \frac{404}{1385}, \frac{519}{1385})$ $+\frac{12}{1385}\sqrt{14734}e^1 \otimes e_3$	{1258, 147, 2345678, 36}
85421:1	$0, 0, 0, \frac{4}{1305}\sqrt{4782}e^{12}, \frac{2}{1305}\sqrt{83685}e^{14}, \frac{2}{1305}\sqrt{374590}e^{24},$ $\frac{2}{1305}\sqrt{66151}e^{15}, \frac{2}{1305}\sqrt{94046}e^{17}$	$(\frac{17}{145}, -\frac{221}{1305}, 1, -\frac{68}{1305}, \frac{17}{261}, -\frac{289}{1305}, \frac{238}{1305}, \frac{391}{1305})$ $+\frac{4}{1305}\sqrt{205626}e^3 \otimes e_6$	{1267, 14568, 234, 3578}
85421:1	$0, 0, 0, \frac{2}{81}\sqrt{1110}e^{12}, \frac{2}{81}\sqrt{111}e^{14}, \frac{4}{81}\sqrt{259}e^{24}, \frac{2}{81}\sqrt{185}e^{15},$ $\frac{4}{81}\sqrt{37}e^{17}$	$(-\frac{1}{27}, \frac{23}{81}, -\frac{17}{27}, \frac{20}{81}, \frac{17}{81}, \frac{43}{81}, \frac{14}{81}, \frac{11}{81})$ $+\frac{2}{81}\sqrt{2442}e^2 \otimes e_3$	{126, 1345678, 247, 358}
85421:2	$0, 0, 0, \frac{1}{77}\sqrt{1254}e^{12}, \frac{9}{77}\sqrt{22}e^{14}, \frac{1}{77}\sqrt{1914}e^{13} + \frac{1}{77}\sqrt{330}e^{24},$ $\frac{1}{77}\sqrt{1914}e^{15}, \frac{2}{77}\sqrt{330}e^{17}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, \frac{3}{7})$ $+\frac{8}{77}\sqrt{66}e^1 \otimes e_3$	{234578, 3}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
85421:2	$0, 0, 0, \frac{9}{308}\sqrt{354}e^{12}, \frac{81}{308}\sqrt{2}e^{14}, \frac{9}{154}\sqrt{94}e^{13} + \frac{9}{308}\sqrt{590}e^{24},$ $\frac{9}{308}\sqrt{74}e^{15}, \frac{9}{154}\sqrt{118}e^{17}$	$(-\frac{81}{616}, \frac{18}{77}, \frac{36}{77}, \frac{9}{88}, -\frac{9}{308}, \frac{207}{616}, -\frac{9}{56}, -\frac{45}{154})$ $+ \frac{9}{154}\sqrt{258}e^2 \otimes e_8$	{12367, 134568, 234, 3578}
85421:2	$0, 0, 0, \frac{9}{308}\sqrt{354}e^{12}, \frac{81}{308}\sqrt{2}e^{14}, \frac{9}{154}\sqrt{94}e^{13} + \frac{9}{308}\sqrt{590}e^{24},$ $\frac{9}{308}\sqrt{74}e^{15}, \frac{9}{154}\sqrt{118}e^{17}$	$(-\frac{81}{616}, \frac{18}{77}, \frac{36}{77}, \frac{9}{88}, -\frac{9}{308}, \frac{207}{616}, -\frac{9}{56}, -\frac{45}{154})$ $- \frac{9}{154}\sqrt{258}e^2 \otimes e_8$	{12367, 134568, 234, 3578}
85421:3	$0, 0, 0, \frac{53}{2601}\sqrt{258}e^{12}, \frac{106}{2601}\sqrt{21}e^{14}, \frac{530}{2601}\sqrt{13}e^{24},$ $\frac{106}{2601}\sqrt{109}e^{15}, \frac{53}{2601}\sqrt{2}e^{17} + \frac{53}{867}\sqrt{154}e^{23}$	$(\frac{53}{289}, -\frac{689}{2601}, \frac{212}{289}, -\frac{212}{2601}, \frac{265}{2601}, -\frac{53}{153}, \frac{742}{2601}, \frac{1219}{2601})$ $+ \frac{106}{2601}\sqrt{1038}e^3 \otimes e_6$	{25678, 46}
85421:3	$0, 0, 0, \frac{11}{51}\sqrt{15}e^{12}, \frac{11}{153}\sqrt{33}e^{14}, \frac{11}{153}\sqrt{139}e^{24}, \frac{11}{153}\sqrt{29}e^{15},$ $\frac{22}{153}\sqrt{2}e^{17} + \frac{11}{153}\sqrt{78}e^{23}$	$(-\frac{11}{102}, \frac{55}{153}, -\frac{22}{51}, \frac{77}{306}, \frac{22}{153}, \frac{11}{18}, \frac{11}{306}, -\frac{11}{153})$ $+ \frac{11}{153}\sqrt{258}e^2 \otimes e_3$	{134567, 35}
85421:5	$0, 0, 0, \frac{1}{14}\sqrt{70}e^{12}, \frac{1}{7}\sqrt{7}e^{14}, \frac{1}{14}\sqrt{35}e^{24}, \frac{1}{2}e^{15},$ $\frac{3}{14}\sqrt{14}e^{17} + \frac{2}{7}\sqrt{7}e^{26}$	$(0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{3}{14}\sqrt{35}e^3 \otimes e_8$	{12458, 137}
85421:5	$0, 0, 0, \frac{94}{3261}\sqrt{330}e^{12}, \frac{47}{3261}\sqrt{1810}e^{14}, \frac{47}{3261}\sqrt{190}e^{24}, \frac{799}{3261}\sqrt{6}e^{15},$ $\frac{47}{3261}\sqrt{1282}e^{17} + \frac{47}{3261}\sqrt{454}e^{26}$	$(\frac{188}{3261}, \frac{94}{1087}, -\frac{2021}{3261}, \frac{470}{3261}, \frac{658}{3261}, \frac{752}{3261}, \frac{282}{1087}, \frac{1034}{3261})$ $+ \frac{47}{3261}\sqrt{5282}e^1 \otimes e_3$	{2345678, 36}
85421:5	$0, 0, 0, \frac{12}{397}\sqrt{470}e^{12}, \frac{12}{397}\sqrt{14}e^{14}, \frac{12}{397}\sqrt{534}e^{24}, \frac{24}{397}\sqrt{15}e^{15},$ $\frac{12}{397}\sqrt{202}e^{17} + \frac{24}{397}\sqrt{110}e^{26}$	$(\frac{24}{397}, \frac{36}{397}, -\frac{252}{397}, \frac{60}{397}, \frac{84}{397}, \frac{96}{397}, \frac{108}{397}, \frac{132}{397})$ $+ \frac{12}{397}\sqrt{1298}e^2 \otimes e_3$	{126, 1345678}
85321:1	$0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{4}{11}e^{13}, \frac{2}{11}\sqrt{6}e^{14}, \frac{2}{11}\sqrt{5}e^{16}, \frac{2}{11}\sqrt{3}e^{17}$	$(\frac{1}{22}, \frac{1}{11}, -\frac{7}{22}, \frac{3}{22}, -\frac{3}{11}, \frac{2}{11}, \frac{5}{22}, \frac{3}{11})$ $+ \frac{2}{11}\sqrt{14}e^1 \otimes e_3 + \frac{2}{11}\sqrt{5}e^2 \otimes e_5$	{1268, 234678}
85321:1	$0, 0, 0, \frac{24}{73}\sqrt{2}e^{12}, \frac{8}{73}\sqrt{26}e^{13}, \frac{24}{73}\sqrt{3}e^{14}, \frac{24}{73}\sqrt{3}e^{16},$ $\frac{24}{73}\sqrt{2}e^{17}$	$(\frac{9}{73}, -\frac{6}{73}, -\frac{23}{73}, \frac{3}{73}, -\frac{14}{73}, \frac{12}{73}, \frac{21}{73}, \frac{30}{73})$ $+ \frac{8}{73}\sqrt{61}e^1 \otimes e_3$	{1268, 147, 234678, 3}
85321:1	$0, 0, 0, \frac{12}{37}e^{12}, \frac{5}{37}\sqrt{6}e^{13}, \frac{2}{37}\sqrt{3}e^{14}, \frac{2}{37}\sqrt{33}e^{16},$ $\frac{6}{37}\sqrt{6}e^{17}$	$(\frac{2}{37}, -\frac{7}{37}, \frac{10}{37}, -\frac{5}{37}, \frac{12}{37}, -\frac{3}{37}, -\frac{1}{37}, \frac{1}{37})$ $+ \frac{2}{37}\sqrt{66}e^3 \otimes e_8 + \frac{4}{37}\sqrt{21}e^1 \otimes e_2$	{1568, 235}
85321:1	$0, 0, 0, \frac{10}{53}\sqrt{2}e^{12}, \frac{5}{53}\sqrt{38}e^{13}, \frac{10}{53}\sqrt{3}e^{14}, \frac{10}{53}\sqrt{3}e^{16},$ $\frac{10}{53}\sqrt{2}e^{17}$	$(-\frac{10}{53}, \frac{25}{53}, \frac{10}{53}, \frac{15}{53}, 0, \frac{5}{53}, -\frac{5}{53}, -\frac{15}{53})$ $+ \frac{20}{53}\sqrt{3}e^2 \otimes e_5 + \frac{20}{53}\sqrt{3}e^3 \otimes e_8$	{2478, 356}
85321:1	$0, 0, 0, \frac{2}{61}\sqrt{246}e^{12}, \frac{1}{61}\sqrt{574}e^{13}, \frac{2}{61}\sqrt{246}e^{14}, \frac{2}{61}\sqrt{451}e^{16},$ $\frac{6}{61}\sqrt{41}e^{17}$	$(\frac{14}{61}, -\frac{27}{61}, \frac{4}{61}, -\frac{13}{61}, \frac{18}{61}, \frac{1}{61}, \frac{15}{61}, \frac{29}{61})$ $+ \frac{10}{61}\sqrt{41}e^1 \otimes e_2$	{1368, 1568, 2, 235}
85321:2	$0, 0, 0, \frac{4}{395}\sqrt{10038}e^{12}, \frac{8}{395}\sqrt{478}e^{13}, \frac{2}{395}\sqrt{9321}e^{24}, \frac{8}{395}\sqrt{478}e^{26},$ $\frac{6}{395}\sqrt{1195}e^{27}$	$(\frac{259}{395}, -\frac{58}{395}, -\frac{219}{395}, \frac{201}{395}, \frac{8}{395}, \frac{143}{395}, \frac{17}{395}, \frac{27}{395})$ $+ \frac{2}{395}\sqrt{77197}e^1 \otimes e_3$	{12678, 1468, 234, 37}
85321:2	$0, 0, 0, \frac{48}{1307}\sqrt{167}e^{12}, \frac{96}{1307}\sqrt{95}e^{13}, \frac{144}{1307}\sqrt{5}e^{24}, \frac{48}{1307}\sqrt{31}e^{26},$ $\frac{48}{1307}\sqrt{395}e^{27}$	$(\frac{760}{1307}, -\frac{288}{1307}, -\frac{120}{1307}, \frac{472}{1307}, \frac{640}{1307}, \frac{184}{1307}, -\frac{104}{1307}, -\frac{392}{1307})$ $- \frac{48}{1307}\sqrt{1047}e^1 \otimes e_8$	{1237, 1257, 134, 145, 234568, 2468, 35678, 678}
85321:2	$0, 0, 0, \frac{48}{1307}\sqrt{167}e^{12}, \frac{96}{1307}\sqrt{95}e^{13}, \frac{144}{1307}\sqrt{5}e^{24}, \frac{48}{1307}\sqrt{31}e^{26},$ $\frac{48}{1307}\sqrt{395}e^{27}$	$(\frac{760}{1307}, -\frac{288}{1307}, -\frac{120}{1307}, \frac{472}{1307}, \frac{640}{1307}, \frac{184}{1307}, -\frac{104}{1307}, -\frac{392}{1307})$ $+ \frac{48}{1307}\sqrt{1047}e^1 \otimes e_8$	{1237, 1257, 134, 145, 234568, 2468, 35678, 678}
85321:2	$0, 0, 0, \frac{6}{1265}\sqrt{19451}e^{12}, \frac{24}{1265}\sqrt{1802}e^{13}, \frac{12}{1265}\sqrt{1590}e^{24},$ $\frac{6}{1265}\sqrt{10441}e^{26}, \frac{12}{1265}\sqrt{7738}e^{27}$	$(\frac{47}{1265}, -\frac{14}{253}, \frac{721}{1265}, -\frac{1}{55}, \frac{768}{1265}, -\frac{93}{1265}, -\frac{163}{1265}, -\frac{233}{1265})$ $+ \frac{6}{1265}\sqrt{55173}e^3 \otimes e_8$	{124568, 15678, 2357, 345}
85321:2	$0, 0, 0, \frac{2}{235}\sqrt{505}e^{12}, \frac{1}{47}\sqrt{606}e^{13}, \frac{2}{235}\sqrt{3030}e^{24}, \frac{1}{47}\sqrt{606}e^{26},$ $\frac{1}{235}\sqrt{11110}e^{27}$	$(-\frac{38}{235}, \frac{7}{47}, -\frac{28}{235}, -\frac{3}{235}, -\frac{66}{235}, \frac{32}{235}, \frac{67}{235}, \frac{102}{235})$ $+ \frac{2}{235}\sqrt{9494}e^2 \otimes e_5$	{12368, 145678, 247, 35}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
85321:2	$0, 0, 0, \frac{20}{157}\sqrt{6}e^{12}, \frac{40}{157}\sqrt{2}e^{13}, \frac{10}{157}\sqrt{33}e^{24}, \frac{40}{157}\sqrt{2}e^{26}, \frac{10}{157}\sqrt{21}e^{27}$	$(\frac{5}{157}, \frac{10}{157}, -\frac{45}{157}, \frac{15}{157}, -\frac{40}{157}, \frac{25}{157}, \frac{35}{157}, \frac{45}{157})$ $+ \frac{10}{157}\sqrt{37}e^1 \otimes e_3 + \frac{40}{157}\sqrt{6}e^2 \otimes e_5$	{145678, 35}
85321:2	$0, 0, 0, \frac{2}{259}\sqrt{203}e^{12}, \frac{8}{259}\sqrt{42}e^{13}, \frac{4}{259}\sqrt{42}e^{24}, \frac{6}{37}e^{26}, \frac{4}{259}\sqrt{154}e^{27}$	$(-\frac{5}{37}, \frac{2}{37}, \frac{5}{37}, -\frac{3}{37}, 0, -\frac{1}{37}, \frac{1}{37}, \frac{3}{37})$ $+ \frac{16}{259}\sqrt{14}e^2 \otimes e_5 + \frac{6}{259}\sqrt{77}e^3 \otimes e_8$	{12347, 268}
85321:3	$0, 0, 0, \frac{48}{1343}\sqrt{431}e^{12}, \frac{576}{1343}e^{13}, \frac{48}{1343}\sqrt{67}e^{14}, \frac{144}{1343}e^{16}, \frac{48}{1343}\sqrt{203}e^{17} + \frac{96}{1343}\sqrt{95}e^{35}$	$(-\frac{288}{1343}, \frac{912}{1343}, \frac{24}{1343}, \frac{624}{1343}, -\frac{264}{1343}, \frac{336}{1343}, \frac{48}{1343}, -\frac{240}{1343})$ $+ \frac{912}{1343}\sqrt{3}e^2 \otimes e_8$	{123567, 1267, 378, 578}
85321:3	$0, 0, 0, \frac{48}{1343}\sqrt{431}e^{12}, \frac{576}{1343}e^{13}, \frac{48}{1343}\sqrt{67}e^{14}, \frac{144}{1343}e^{16}, \frac{48}{1343}\sqrt{203}e^{17} + \frac{96}{1343}\sqrt{95}e^{35}$	$(-\frac{288}{1343}, \frac{912}{1343}, \frac{24}{1343}, \frac{624}{1343}, -\frac{264}{1343}, \frac{336}{1343}, \frac{48}{1343}, -\frac{240}{1343})$ $- \frac{912}{1343}\sqrt{3}e^2 \otimes e_8$	{123567, 1267, 378, 578}
85321:5	$0, 0, 0, \frac{180}{253}e^{12}, \frac{15}{253}\sqrt{134}e^{13}, \frac{30}{253}\sqrt{5}e^{14}, \frac{120}{253}e^{16}, \frac{90}{253}\sqrt{3}e^{17} + \frac{60}{253}\sqrt{7}e^{23}$	$(-\frac{20}{253}, \frac{125}{253}, -\frac{80}{253}, \frac{105}{253}, -\frac{100}{253}, \frac{85}{253}, \frac{65}{253}, \frac{45}{253})$ $+ \frac{30}{253}\sqrt{105}e^2 \otimes e_5$	{145, 2468}
85321:6	$0, 0, 0, \frac{72}{479}\sqrt{30}e^{12}, \frac{108}{479}\sqrt{2}e^{13}, \frac{18}{479}\sqrt{177}e^{24}, \frac{108}{479}\sqrt{2}e^{26}, \frac{36}{479}\sqrt{102}e^{15} + \frac{18}{479}\sqrt{267}e^{27}$	$(\frac{207}{479}, -\frac{18}{479}, -\frac{279}{479}, \frac{189}{479}, -\frac{72}{479}, \frac{171}{479}, \frac{153}{479}, \frac{135}{479})$ $- \frac{18}{479}\sqrt{1173}e^1 \otimes e_3$	{12678, 1468, 234, 37}
85321:6	$0, 0, 0, \frac{72}{479}\sqrt{30}e^{12}, \frac{108}{479}\sqrt{2}e^{13}, \frac{18}{479}\sqrt{177}e^{24}, \frac{108}{479}\sqrt{2}e^{26}, \frac{36}{479}\sqrt{102}e^{15} + \frac{18}{479}\sqrt{267}e^{27}$	$(\frac{207}{479}, -\frac{18}{479}, -\frac{279}{479}, \frac{189}{479}, -\frac{72}{479}, \frac{171}{479}, \frac{153}{479}, \frac{135}{479})$ $+ \frac{18}{479}\sqrt{1173}e^1 \otimes e_3$	{12678, 1468, 234, 37}
85321:7	$0, 0, 0, \frac{123}{2381}\sqrt{78}e^{12}, \frac{41}{2381}\sqrt{1974}e^{13}, \frac{41}{2381}\sqrt{1322}e^{14}, \frac{246}{2381}\sqrt{5}e^{16}, \frac{246}{2381}\sqrt{29}e^{17} + \frac{164}{2381}\sqrt{105}e^{24}$	$(-\frac{41}{2381}, -\frac{123}{2381}, \frac{1394}{2381}, -\frac{164}{2381}, \frac{1353}{2381}, -\frac{205}{2381}, -\frac{246}{2381}, -\frac{287}{2381})$ $+ \frac{41}{2381}\sqrt{4030}e^3 \otimes e_8$	{123467, 478}
85321:7	$0, 0, 0, \frac{58}{2429}\sqrt{285}e^{12}, \frac{29}{2429}\sqrt{2006}e^{13}, \frac{261}{2429}\sqrt{26}e^{14}, \frac{174}{2429}\sqrt{53}e^{16}, \frac{464}{2429}\sqrt{6}e^{17} + \frac{87}{2429}\sqrt{110}e^{24}$	$(\frac{87}{2429}, \frac{261}{2429}, -\frac{754}{2429}, \frac{348}{2429}, -\frac{667}{2429}, \frac{435}{2429}, \frac{522}{2429}, \frac{87}{2429})$ $+ \frac{29}{2429}\sqrt{4186}e^1 \otimes e_3$	{147, 234678}
85321:7	$0, 0, 0, \frac{62}{2333}\sqrt{439}e^{12}, \frac{31}{2333}\sqrt{2134}e^{13}, \frac{186}{2333}\sqrt{21}e^{14}, \frac{31}{2333}\sqrt{1102}e^{16}, \frac{31}{2333}\sqrt{1634}e^{17} + \frac{868}{2333}\sqrt{3}e^{24}$	$(\frac{93}{2333}, \frac{279}{2333}, -\frac{775}{2333}, \frac{372}{2333}, -\frac{682}{2333}, \frac{465}{2333}, \frac{558}{2333}, \frac{651}{2333})$ $+ \frac{31}{2333}\sqrt{4082}e^2 \otimes e_5$	{145678, 247}
85321:8	$0, 0, 0, \frac{50}{2669}\sqrt{71}e^{12}, \frac{25}{2669}\sqrt{2446}e^{13}, \frac{600}{2669}\sqrt{3}e^{24}, \frac{25}{2669}\sqrt{1874}e^{26}, \frac{50}{2669}\sqrt{429}e^{14} + \frac{25}{2669}\sqrt{1870}e^{27}$	$(\frac{225}{2669}, \frac{75}{2669}, -\frac{775}{2669}, \frac{300}{2669}, -\frac{550}{2669}, \frac{375}{2669}, \frac{450}{2669}, \frac{525}{2669})$ $+ \frac{25}{2669}\sqrt{4442}e^2 \otimes e_5$	{15, 268}
85321:8	$0, 0, 0, \frac{70}{2189}\sqrt{699}e^{12}, \frac{35}{2189}\sqrt{1646}e^{13}, \frac{35}{2189}\sqrt{186}e^{24}, \frac{70}{2189}\sqrt{195}e^{26}, \frac{35}{2189}\sqrt{2598}e^{14} + \frac{420}{2189}\sqrt{11}e^{27}$	$(\frac{315}{2189}, \frac{105}{2189}, -\frac{910}{2189}, \frac{420}{2189}, -\frac{595}{2189}, \frac{525}{2189}, \frac{630}{2189}, \frac{735}{2189})$ $+ \frac{35}{2189}\sqrt{3922}e^1 \otimes e_3$	{147, 234678}
85321:8	$0, 0, 0, \frac{43}{2521}\sqrt{1310}e^{12}, \frac{43}{2521}\sqrt{1946}e^{13}, \frac{602}{2521}\sqrt{3}e^{24}, \frac{43}{2521}\sqrt{734}e^{26}, \frac{43}{2521}\sqrt{514}e^{14} + \frac{129}{2521}\sqrt{238}e^{27}$	$(-\frac{129}{2521}, -\frac{43}{2521}, \frac{1548}{2521}, -\frac{172}{2521}, \frac{1419}{2521}, -\frac{215}{2521}, -\frac{258}{2521}, -\frac{301}{2521})$ $+ \frac{215}{2521}\sqrt{166}e^3 \otimes e_8$	{15678, 2357}
8542:1	$0, 0, 0, \frac{18}{553}\sqrt{31}e^{12}, \frac{54}{553}\sqrt{15}e^{14}, \frac{36}{553}\sqrt{5}e^{24}, \frac{18}{553}\sqrt{174}e^{15}, \frac{18}{553}\sqrt{118}e^{26}$	$(\frac{45}{553}, -\frac{54}{553}, \frac{243}{553}, -\frac{9}{553}, \frac{36}{553}, -\frac{9}{553}, \frac{81}{553}, -\frac{117}{553})$ $+ \frac{18}{553}\sqrt{310}e^1 \otimes e_8 + \frac{36}{553}\sqrt{42}e^3 \otimes e_7$	{147, 368}
8542:1	$0, 0, 0, \frac{2}{77}\sqrt{231}e^{12}, \frac{18}{77}\sqrt{7}e^{14}, \frac{4}{77}\sqrt{21}e^{24}, \frac{2}{77}\sqrt{462}e^{15}, \frac{2}{77}\sqrt{462}e^{26}$	$(\frac{17}{77}, -\frac{2}{11}, \frac{15}{77}, \frac{3}{77}, \frac{20}{77}, -\frac{1}{7}, \frac{37}{77}, -\frac{25}{77})$ $+ \frac{2}{77}\sqrt{1302}e^1 \otimes e_8$	{1347, 147, 368, 68}
8542:1	$0, 0, 0, \frac{2}{1553}\sqrt{236189}e^{12}, \frac{2}{1553}\sqrt{321005}e^{14}, \frac{2}{1553}\sqrt{48298}e^{24}, \frac{16}{1553}\sqrt{3534}e^{15}, \frac{2}{1553}\sqrt{20026}e^{26}$	$(\frac{223}{1553}, \frac{14}{1553}, -\frac{955}{1553}, \frac{237}{1553}, \frac{460}{1553}, \frac{251}{1553}, \frac{683}{1553}, \frac{265}{1553})$ $+ \frac{38}{1553}\sqrt{2046}e^1 \otimes e_3$	{125, 1478, 2345678, 36}
8542:1	$0, 0, 0, \frac{2}{377}\sqrt{7099}e^{12}, \frac{4}{377}\sqrt{1145}e^{14}, \frac{4}{377}\sqrt{1145}e^{24}, \frac{4}{377}\sqrt{7786}e^{15}, \frac{2}{377}\sqrt{8473}e^{26}$	$(-\frac{45}{377}, \frac{54}{377}, 1, \frac{9}{377}, -\frac{36}{377}, \frac{63}{377}, -\frac{81}{377}, \frac{9}{377})$ $+ \frac{6}{377}\sqrt{7557}e^3 \otimes e_7$	{12478, 135, 236, 45678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8542:1	$0, 0, 0, \frac{3}{497}\sqrt{142}e^{12}, \frac{6}{497}\sqrt{35}e^{14}, \frac{6}{497}\sqrt{35}e^{24}, \frac{6}{497}\sqrt{71}e^{15},$ $\frac{6}{497}\sqrt{71}e^{26}$	$(-\frac{3}{497}, -\frac{3}{497}, \frac{9}{71}, -\frac{6}{497}, -\frac{9}{497}, -\frac{9}{497}, -\frac{12}{497}, -\frac{12}{497})$ $+\frac{3}{497}\sqrt{434}e^1 \otimes e_8 + \frac{3}{497}\sqrt{434}e^2 \otimes e_7$	{12356, 1256}
8542:1	$0, 0, 0, \frac{54}{3857}\sqrt{382}e^{12}, \frac{54}{3857}\sqrt{229}e^{14}, \frac{54}{3857}\sqrt{318}e^{24},$ $\frac{27}{3857}\sqrt{2062}e^{15}, \frac{54}{3857}\sqrt{267}e^{26}$	$(-\frac{243}{3857}, \frac{432}{3857}, -\frac{972}{3857}, \frac{27}{551}, -\frac{54}{3857}, \frac{621}{3857}, -\frac{297}{3857}, \frac{1053}{3857})$ $+\frac{27}{3857}\sqrt{2982}e^1 \otimes e_3 + \frac{27}{3857}\sqrt{3694}e^2 \otimes e_7$	{1256, 14678}
8542:2	$0, 0, 0, \frac{351}{2849}\sqrt{22}e^{12}, \frac{39}{2849}\sqrt{2770}e^{14}, \frac{39}{2849}\sqrt{618}e^{24},$ $\frac{39}{2849}\sqrt{1970}e^{15}, \frac{39}{2849}\sqrt{1994}e^{13} + \frac{78}{2849}\sqrt{94}e^{26}$	$(\frac{585}{2849}, -\frac{312}{2849}, -\frac{936}{2849}, \frac{39}{407}, \frac{78}{259}, -\frac{39}{2849}, \frac{39}{77}, -\frac{351}{2849})$ $+\frac{39}{2849}\sqrt{4782}e^1 \otimes e_3$	{147, 234567}
8542:2	$0, 0, 0, \frac{27}{701}\sqrt{186}e^{12}, \frac{27}{701}\sqrt{95}e^{14}, \frac{54}{701}\sqrt{30}e^{24}, \frac{27}{701}\sqrt{386}e^{15},$ $\frac{27}{701}\sqrt{430}e^{13} + \frac{27}{701}\sqrt{7}e^{26}$	$(-\frac{135}{701}, \frac{162}{701}, \frac{486}{701}, \frac{27}{701}, -\frac{108}{701}, \frac{189}{701}, -\frac{243}{701}, \frac{351}{701})$ $+\frac{27}{701}\sqrt{1137}e^3 \otimes e_7$	{2567, 3468}
8542:2	$0, 0, 0, \frac{1}{14}\sqrt{30}e^{12}, \frac{1}{14}\sqrt{6}e^{14}, \frac{3}{14}\sqrt{6}e^{24}, \frac{1}{7}\sqrt{15}e^{15},$ $\frac{1}{14}\sqrt{42}e^{13} + \frac{1}{7}\sqrt{15}e^{26}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7})$ $+\frac{1}{14}\sqrt{138}e^2 \otimes e_7$	{1256, 134678}
8531:1	$0, 0, 0, \frac{3}{298}\sqrt{1195}e^{12}, \frac{1}{149}\sqrt{16491}e^{13}, \frac{1}{298}\sqrt{33938}e^{14}, \frac{1}{298}\sqrt{58794}e^{24},$ $\frac{3}{298}\sqrt{1195}e^{16}$	$(\frac{13}{149}, -\frac{105}{596}, \frac{80}{149}, -\frac{53}{596}, \frac{93}{149}, -\frac{1}{596}, -\frac{79}{298}, \frac{51}{596})$ $+\frac{5}{149}\sqrt{1195}e^3 \otimes e_7$	{123468, 13, 267, 478}
8531:1	$0, 0, 0, \frac{15}{701}\sqrt{142}e^{12}, \frac{30}{701}\sqrt{57}e^{13}, \frac{150}{701}\sqrt{2}e^{14}, \frac{15}{701}\sqrt{534}e^{24},$ $\frac{15}{701}\sqrt{142}e^{16}$	$(-\frac{75}{701}, \frac{60}{701}, \frac{270}{701}, -\frac{15}{701}, \frac{195}{701}, -\frac{90}{701}, \frac{45}{701}, -\frac{165}{701})$ $+\frac{15}{701}\sqrt{606}e^3 \otimes e_7 + \frac{15}{701}\sqrt{634}e^2 \otimes e_8$	{2345, 3568}
8531:1	$0, 0, 0, \frac{23}{1409}\sqrt{858}e^{12}, \frac{23}{1409}\sqrt{74}e^{13}, \frac{23}{1409}\sqrt{498}e^{14}, \frac{23}{1409}\sqrt{318}e^{24},$ $\frac{23}{1409}\sqrt{318}e^{16}$	$(\frac{69}{1409}, \frac{138}{1409}, -\frac{460}{1409}, \frac{207}{1409}, -\frac{391}{1409}, \frac{276}{1409}, \frac{345}{1409}, \frac{345}{1409})$ $+\frac{138}{1409}\sqrt{30}e^2 \otimes e_5 + \frac{23}{1409}\sqrt{1366}e^1 \otimes e_3$	{1267, 23468}
8531:1	$0, 0, 0, \frac{90}{3917}\sqrt{7}e^{12}, \frac{27}{3917}\sqrt{386}e^{13}, \frac{9}{3917}\sqrt{2078}e^{14}, \frac{18}{3917}\sqrt{826}e^{24},$ $\frac{99}{3917}\sqrt{10}e^{16}$	$(-\frac{171}{3917}, \frac{180}{3917}, \frac{270}{3917}, \frac{9}{3917}, \frac{99}{3917}, -\frac{162}{3917}, \frac{189}{3917}, -\frac{333}{3917})$ $+\frac{18}{3917}\sqrt{955}e^2 \otimes e_5 + \frac{9}{3917}\sqrt{3470}e^3 \otimes e_7$	{145678, 356}
8531:1	$0, 0, 0, \frac{2}{175}\sqrt{2093}e^{12}, \frac{6}{175}\sqrt{546}e^{13}, \frac{4}{175}\sqrt{273}e^{14}, \frac{2}{175}\sqrt{1365}e^{24},$ $\frac{8}{175}\sqrt{273}e^{16}$	$(-\frac{34}{175}, \frac{41}{175}, \frac{121}{175}, \frac{1}{25}, \frac{87}{175}, -\frac{27}{175}, \frac{48}{175}, -\frac{61}{175})$ $+\frac{2}{175}\sqrt{12922}e^3 \otimes e_8$	{12346, 158, 2678, 3457}
8531:1	$0, 0, 0, \frac{10}{1233}\sqrt{5161}e^{12}, \frac{16}{1233}\sqrt{2779}e^{13}, \frac{2}{1233}\sqrt{97662}e^{14},$ $\frac{2}{1233}\sqrt{195721}e^{24}, \frac{2}{1233}\sqrt{75430}e^{16}$	$(-\frac{134}{1233}, \frac{415}{1233}, -\frac{245}{1233}, \frac{281}{1233}, -\frac{379}{1233}, \frac{49}{1233}, \frac{232}{411}, \frac{13}{1233})$ $+\frac{2}{1233}\sqrt{408910}e^2 \otimes e_5$	{1237, 145678, 248, 356}
8531:1	$0, 0, 0, \frac{2}{307}\sqrt{8517}e^{12}, \frac{1}{307}\sqrt{33734}e^{13}, \frac{7}{307}\sqrt{1002}e^{14}, \frac{1}{307}\sqrt{11022}e^{24},$ $\frac{2}{307}\sqrt{8517}e^{16}$	$(\frac{57}{307}, -\frac{21}{307}, -\frac{110}{307}, \frac{36}{307}, -\frac{53}{307}, \frac{93}{307}, \frac{15}{307}, \frac{150}{307})$ $+\frac{1}{307}\sqrt{86506}e^1 \otimes e_3$	{126, 148, 234678, 37}
8531:1	$0, 0, 0, \frac{9}{833}\sqrt{526}e^{12}, \frac{9}{833}\sqrt{438}e^{13}, \frac{9}{833}\sqrt{430}e^{14}, \frac{9}{833}\sqrt{138}e^{24},$ $\frac{9}{833}\sqrt{526}e^{16}$	$(-\frac{27}{833}, \frac{90}{833}, -\frac{108}{833}, \frac{9}{119}, -\frac{135}{833}, \frac{36}{833}, \frac{9}{49}, \frac{9}{833})$ $+\frac{234}{833}e^2 \otimes e_8 + \frac{9}{833}\sqrt{822}e^1 \otimes e_3$	{1267, 1478}
8531:1	$0, 0, 0, \frac{6}{107}\sqrt{130}e^{12}, \frac{26}{107}\sqrt{3}e^{13}, \frac{2}{107}\sqrt{39}e^{14}, \frac{12}{107}\sqrt{39}e^{24},$ $\frac{6}{107}\sqrt{130}e^{16}$	$(-\frac{26}{107}, \frac{41}{107}, \frac{33}{107}, \frac{15}{107}, \frac{7}{107}, -\frac{11}{107}, \frac{56}{107}, -\frac{37}{107})$ $+\frac{6}{107}\sqrt{377}e^2 \otimes e_8$	{234, 245, 368, 568}
8531:2	$0, 0, 0, \frac{30}{1549}\sqrt{83}e^{12}, \frac{30}{1549}\sqrt{518}e^{13}, \frac{30}{1549}\sqrt{399}e^{24}, \frac{60}{1549}\sqrt{22}e^{14},$ $\frac{90}{1549}\sqrt{38}e^{26}$	$(-\frac{300}{1549}, \frac{285}{1549}, \frac{135}{1549}, -\frac{15}{1549}, -\frac{165}{1549}, \frac{270}{1549}, -\frac{315}{1549}, \frac{555}{1549})$ $+\frac{240}{1549}\sqrt{14}e^2 \otimes e_5 + \frac{60}{1549}\sqrt{110}e^3 \otimes e_7$	{1236, 145678}
8531:2	$0, 0, 0, \frac{6}{1385}\sqrt{13462}e^{12}, \frac{6}{1385}\sqrt{13038}e^{13}, \frac{12}{1385}\sqrt{530}e^{24},$ $\frac{6}{1385}\sqrt{20829}e^{14}, \frac{6}{1385}\sqrt{19981}e^{26}$	$(\frac{492}{1385}, -\frac{318}{1385}, \frac{27}{1385}, \frac{174}{1385}, \frac{519}{1385}, -\frac{144}{1385}, \frac{666}{1385}, -\frac{462}{1385})$ $+\frac{12}{1385}\sqrt{14734}e^1 \otimes e_8$	{134, 145, 3568, 68}
8531:2	$0, 0, 0, \frac{2}{1289}\sqrt{150155}e^{12}, \frac{2}{1289}\sqrt{296238}e^{13}, \frac{2}{1289}\sqrt{65661}e^{24},$ $\frac{18}{1289}\sqrt{1018}e^{14}, \frac{8}{1289}\sqrt{16797}e^{26}$	$(\frac{100}{1289}, -\frac{137}{1289}, \frac{707}{1289}, -\frac{37}{1289}, \frac{807}{1289}, -\frac{174}{1289}, \frac{63}{1289}, -\frac{311}{1289})$ $+\frac{4}{1289}\sqrt{135394}e^3 \otimes e_8$	{124578, 13, 23567, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8531:2	$0, 0, 0, \frac{264}{4241}\sqrt{10}e^{12}, \frac{132}{4241}\sqrt{114}e^{13}, \frac{66}{4241}\sqrt{113}e^{24},$ $\frac{33}{4241}\sqrt{2370}e^{14}, \frac{132}{4241}\sqrt{97}e^{26}$	$(\frac{231}{4241}, -\frac{363}{4241}, \frac{1188}{4241}, -\frac{132}{4241}, \frac{1419}{4241}, -\frac{495}{4241}, \frac{99}{4241}, -\frac{858}{4241})$ $+\frac{33}{4241}\sqrt{4282}e^1 \otimes e_8 + \frac{99}{4241}\sqrt{354}e^3 \otimes e_7$	{134, 3568}
8531:2	$0, 0, 0, \frac{1}{77}\sqrt{4209}e^{12}, \frac{1}{77}\sqrt{2318}e^{13}, \frac{1}{77}\sqrt{915}e^{24}, \frac{1}{77}\sqrt{4209}e^{14},$ $\frac{1}{77}\sqrt{915}e^{26}$	$(\frac{27}{77}, -\frac{15}{154}, -\frac{34}{77}, \frac{39}{154}, -\frac{1}{11}, \frac{12}{77}, \frac{93}{154}, \frac{9}{154})$ $+\frac{1}{77}\sqrt{7930}e^1 \otimes e_3$	{127, 148, 234678, 36}
8531:2	$0, 0, 0, \frac{2}{1313}\sqrt{46085}e^{12}, \frac{10}{1313}\sqrt{9926}e^{13}, \frac{2}{1313}\sqrt{14889}e^{24},$ $\frac{4}{1313}\sqrt{58138}e^{14}, \frac{2}{1313}\sqrt{77990}e^{26}$	$(-\frac{348}{1313}, \frac{241}{1313}, \frac{963}{1313}, -\frac{107}{1313}, \frac{615}{1313}, \frac{134}{1313}, -\frac{35}{101}, \frac{375}{1313})$ $+\frac{4}{1313}\sqrt{185758}e^3 \otimes e_7$	{12346, 15678, 2358, 47}
8531:2	$0, 0, 0, \frac{25}{1781}\sqrt{834}e^{12}, \frac{25}{1781}\sqrt{514}e^{13}, \frac{150}{1781}\sqrt{22}e^{24}, \frac{100}{1781}\sqrt{6}e^{14},$ $\frac{25}{1781}\sqrt{546}e^{26}$	$(\frac{75}{1781}, \frac{150}{1781}, -\frac{550}{1781}, \frac{225}{1781}, -\frac{475}{1781}, \frac{375}{1781}, \frac{300}{1781}, \frac{525}{1781})$ $+\frac{100}{1781}\sqrt{123}e^2 \otimes e_5 + \frac{25}{1781}\sqrt{1090}e^1 \otimes e_3$	{14568, 35}
8531:2	$0, 0, 0, \frac{15}{3689}\sqrt{1066}e^{12}, \frac{30}{3689}\sqrt{519}e^{13}, \frac{30}{3689}\sqrt{367}e^{24}, \frac{30}{3689}\sqrt{21}e^{14},$ $\frac{30}{3689}\sqrt{526}e^{26}$	$(\frac{285}{3689}, -\frac{75}{3689}, -\frac{585}{3689}, \frac{30}{527}, -\frac{300}{3689}, \frac{135}{3689}, \frac{495}{3689}, \frac{60}{3689})$ $+\frac{15}{217}\sqrt{10}e^1 \otimes e_8 + \frac{45}{3689}\sqrt{398}e^2 \otimes e_5$	{12367, 2478}
8531:2	$0, 0, 0, \frac{10}{1377}\sqrt{2067}e^{12}, \frac{130}{1377}\sqrt{38}e^{13}, \frac{10}{1377}\sqrt{7111}e^{24},$ $\frac{20}{1377}\sqrt{858}e^{14}, \frac{10}{1377}\sqrt{5278}e^{26}$	$(-\frac{140}{1377}, \frac{265}{1377}, -\frac{245}{1377}, \frac{125}{1377}, -\frac{385}{1377}, \frac{130}{459}, -\frac{5}{459}, \frac{655}{1377})$ $+\frac{20}{1377}\sqrt{3666}e^2 \otimes e_5$	{1236, 145678, 248, 357}
8531:3	$0, 0, 0, \frac{6}{133}\sqrt{34}e^{12}, \frac{6}{133}\sqrt{3}e^{13}, \frac{6}{133}\sqrt{31}e^{14}, \frac{6}{133}\sqrt{30}e^{35},$ $\frac{6}{133}\sqrt{34}e^{16}$	$(-\frac{6}{133}, \frac{27}{133}, -\frac{9}{133}, \frac{3}{19}, -\frac{15}{133}, \frac{15}{133}, -\frac{24}{133}, \frac{9}{133})$ $+\frac{36}{133}\sqrt{2}e^1 \otimes e_7 + \frac{6}{133}\sqrt{43}e^2 \otimes e_8$	{12356, 126, 13458, 148}
8531:3	$0, 0, 0, \frac{6}{133}\sqrt{34}e^{12}, \frac{6}{133}\sqrt{3}e^{13}, \frac{6}{133}\sqrt{31}e^{14}, \frac{6}{133}\sqrt{30}e^{35},$ $\frac{6}{133}\sqrt{34}e^{16}$	$(-\frac{6}{133}, \frac{27}{133}, -\frac{9}{133}, \frac{3}{19}, -\frac{15}{133}, \frac{15}{133}, -\frac{24}{133}, \frac{9}{133})$ $-\frac{36}{133}\sqrt{2}e^1 \otimes e_7 + \frac{6}{133}\sqrt{43}e^2 \otimes e_8$	{12356, 126, 13458, 148}
8531:3	$0, 0, 0, \frac{2}{479}\sqrt{38173}e^{12}, \frac{2}{1437}\sqrt{71817}e^{13}, \frac{4}{1437}\sqrt{21351}e^{14},$ $\frac{2}{1437}\sqrt{309913}e^{35}, \frac{2}{479}\sqrt{3235}e^{16}$	$(-\frac{74}{479}, \frac{302}{479}, -\frac{83}{1437}, \frac{228}{479}, -\frac{305}{1437}, \frac{154}{479}, -\frac{388}{1437}, \frac{80}{479})$ $+\frac{16}{479}\sqrt{1294}e^2 \otimes e_7$	{123568, 1268, 378, 578}
8531:3	$0, 0, 0, \frac{2}{1425}\sqrt{96162}e^{12}, \frac{94}{475}\sqrt{11}e^{13}, \frac{2}{475}\sqrt{3102}e^{14}, \frac{2}{285}\sqrt{9823}e^{35},$ $\frac{44}{475}\sqrt{47}e^{16}$	$(-\frac{106}{475}, \frac{149}{475}, \frac{527}{1425}, \frac{43}{475}, \frac{11}{75}, -\frac{63}{475}, \frac{736}{1425}, -\frac{169}{475})$ $+\frac{4}{1425}\sqrt{150447}e^3 \otimes e_8$	{123467, 1578, 268, 345}
8531:3	$0, 0, 0, \frac{58}{4289}\sqrt{314}e^{12}, \frac{348}{4289}\sqrt{15}e^{13}, \frac{58}{4289}\sqrt{199}e^{14}, \frac{58}{4289}\sqrt{415}e^{35},$ $\frac{29}{4289}\sqrt{2558}e^{16}$	$(\frac{145}{4289}, -\frac{696}{4289}, \frac{580}{4289}, -\frac{551}{4289}, \frac{725}{4289}, -\frac{406}{4289}, \frac{1305}{4289}, -\frac{261}{4289})$ $+\frac{29}{4289}\sqrt{3598}e^1 \otimes e_2 + \frac{29}{4289}\sqrt{4030}e^3 \otimes e_8$	{1367, 235}
8531:3	$0, 0, 0, \frac{6}{89}\sqrt{130}e^{12}, \frac{30}{89}\sqrt{3}e^{13}, \frac{6}{89}\sqrt{55}e^{14}, \frac{6}{89}\sqrt{30}e^{35},$ $\frac{6}{89}\sqrt{130}e^{16}$	$(-\frac{30}{89}, \frac{63}{89}, \frac{27}{89}, \frac{33}{89}, -\frac{3}{89}, \frac{3}{89}, \frac{24}{89}, -\frac{27}{89})$ $+\frac{6}{89}\sqrt{355}e^2 \otimes e_8$	{12356, 126, 13458, 148}
8531:3	$0, 0, 0, \frac{18}{289}\sqrt{41}e^{12}, \frac{14}{289}\sqrt{123}e^{13}, \frac{8}{289}\sqrt{615}e^{14}, \frac{2}{289}\sqrt{2337}e^{35},$ $\frac{2}{289}\sqrt{10947}e^{16}$	$(\frac{98}{289}, -\frac{148}{289}, -\frac{11}{289}, -\frac{50}{289}, \frac{87}{289}, \frac{48}{289}, \frac{76}{289}, \frac{146}{289})$ $+\frac{4}{289}\sqrt{7134}e^1 \otimes e_2$	{1367, 1567, 2, 235}
8531:4	$0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{2}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{6}e^{24}, \frac{1}{7}\sqrt{6}e^{35},$ $\frac{2}{7}\sqrt{6}e^{26}$	$(\frac{4}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, 0, \frac{2}{7}, -\frac{2}{7})$ $+\frac{1}{7}\sqrt{66}e^1 \otimes e_8$	{12367, 12567, 23458, 248}
8531:4	$0, 0, 0, \frac{2}{291}\sqrt{4290}e^{12}, \frac{13}{97}\sqrt{22}e^{13}, \frac{2}{97}\sqrt{143}e^{24}, \frac{1}{291}\sqrt{27742}e^{35},$ $\frac{13}{97}\sqrt{22}e^{26}$	$(-\frac{1}{97}, -\frac{7}{97}, \frac{77}{291}, -\frac{8}{97}, \frac{74}{291}, -\frac{15}{97}, \frac{151}{291}, -\frac{22}{97})$ $+\frac{1}{291}\sqrt{67782}e^3 \otimes e_8$	{124578, 137, 2356, 468}
8531:4	$0, 0, 0, \frac{8}{203}\sqrt{33}e^{12}, \frac{12}{203}\sqrt{6}e^{13}, \frac{2}{203}\sqrt{534}e^{24}, \frac{2}{203}\sqrt{534}e^{35},$ $\frac{4}{203}\sqrt{159}e^{26}$	$(\frac{36}{203}, -\frac{8}{203}, -\frac{34}{203}, \frac{4}{29}, \frac{2}{203}, \frac{20}{203}, -\frac{32}{203}, \frac{12}{203})$ $+\frac{12}{203}\sqrt{35}e^2 \otimes e_7 + \frac{2}{203}\sqrt{834}e^1 \otimes e_8$	{23458, 248}
8531:4	$0, 0, 0, \frac{2}{303}\sqrt{5109}e^{12}, \frac{2}{303}\sqrt{393}e^{13}, \frac{1}{303}\sqrt{26462}e^{24}, \frac{1}{303}\sqrt{26462}e^{35},$ $\frac{5}{303}\sqrt{786}e^{26}$	$(-\frac{4}{101}, \frac{49}{303}, -\frac{35}{303}, \frac{37}{303}, -\frac{47}{303}, \frac{86}{303}, -\frac{82}{303}, \frac{45}{101})$ $+\frac{3}{101}\sqrt{786}e^2 \otimes e_7$	{12356, 126, 37, 57}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8531:4	$0, 0, 0, \frac{1}{609}\sqrt{210}e^{12}, \frac{2}{203}\sqrt{42}e^{13}, \frac{1}{203}\sqrt{182}e^{24}, \frac{1}{87}\sqrt{58}e^{35},$ $\frac{2}{203}\sqrt{77}e^{26}$	$(-\frac{2}{29}, \frac{1}{29}, \frac{4}{87}, -\frac{1}{29}, -\frac{2}{87}, 0, \frac{2}{87}, \frac{1}{29})$ $+\frac{2}{203}\sqrt{105}e^2 \otimes e_7 + \frac{1}{609}\sqrt{903}e^3 \otimes e_8$	{145678, 248}
8531:5	$0, 0, 0, \frac{1}{77}\sqrt{1254}e^{12}, \frac{2}{77}\sqrt{330}e^{13}, \frac{1}{77}\sqrt{330}e^{24},$ $\frac{9}{77}\sqrt{22}e^{14} + \frac{1}{77}\sqrt{1914}e^{23}, \frac{1}{77}\sqrt{1914}e^{26}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7})$ $+\frac{8}{77}\sqrt{66}e^1 \otimes e_8$	{12367, 234578}
8531:5	$0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{371}\sqrt{462}e^{13}, \frac{10}{371}\sqrt{511}e^{24},$ $\frac{60}{371}\sqrt{7}e^{14} + \frac{3}{371}\sqrt{70}e^{23}, \frac{30}{371}\sqrt{42}e^{26}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{5}{53}, -\frac{15}{53}, \frac{15}{53}, 0, \frac{25}{53})$ $+\frac{20}{371}\sqrt{266}e^2 \otimes e_5$	{1236, 357}
8531:5	$0, 0, 0, \frac{82}{2381}\sqrt{323}e^{12}, \frac{738}{2381}\sqrt{6}e^{13}, \frac{246}{2381}\sqrt{5}e^{24},$ $\frac{246}{2381}\sqrt{22}e^{14} + \frac{533}{2381}\sqrt{6}e^{23}, \frac{164}{2381}\sqrt{105}e^{26}$	$(\frac{451}{2381}, -\frac{410}{2381}, \frac{902}{2381}, \frac{41}{2381}, \frac{1353}{2381}, -\frac{369}{2381}, \frac{492}{2381}, -\frac{779}{2381})$ $+\frac{820}{2381}\sqrt{10}e^3 \otimes e_8$	{124578, 468}
8531:6	$0, 0, 0, \frac{1}{24}\sqrt{399}e^{12}, \frac{7}{24}\sqrt{6}e^{13}, \frac{1}{4}\sqrt{7}e^{14}, \frac{7}{24}\sqrt{6}e^{15},$ $\frac{1}{24}\sqrt{399}e^{16}$	$(-\frac{7}{24}, \frac{29}{48}, \frac{11}{24}, \frac{5}{16}, \frac{1}{6}, \frac{1}{8}, -\frac{1}{8}, -\frac{13}{48})$ $+\frac{1}{12}\sqrt{210}e^2 \otimes e_8$	{123567, 126, 134578, 148}
8531:6	$0, 0, 0, \frac{2}{231}\sqrt{534}e^{12}, \frac{4}{231}\sqrt{123}e^{13}, \frac{2}{77}\sqrt{58}e^{14}, \frac{2}{231}\sqrt{258}e^{15},$ $\frac{2}{231}\sqrt{534}e^{16}$	$(-\frac{4}{231}, \frac{25}{231}, -\frac{16}{231}, \frac{1}{11}, -\frac{20}{231}, \frac{17}{231}, -\frac{8}{77}, \frac{13}{231})$ $+\frac{2}{231}\sqrt{570}e^2 \otimes e_8 + \frac{2}{77}\sqrt{78}e^1 \otimes e_3$	{126, 148}
8531:6	$0, 0, 0, \frac{6}{227}\sqrt{559}e^{12}, \frac{2}{227}\sqrt{4773}e^{13}, \frac{4}{227}\sqrt{1677}e^{14}, \frac{1}{227}\sqrt{2838}e^{15},$ $\frac{6}{227}\sqrt{559}e^{16}$	$(\frac{52}{227}, -\frac{40}{227}, -\frac{77}{227}, \frac{12}{227}, -\frac{25}{227}, \frac{64}{227}, \frac{27}{227}, \frac{116}{227})$ $+\frac{9}{227}\sqrt{602}e^1 \otimes e_3$	{126, 148, 234678, 37}
8531:6	$0, 0, 0, \frac{150}{2291}\sqrt{41}e^{12}, \frac{50}{2291}\sqrt{237}e^{13}, \frac{100}{2291}\sqrt{74}e^{14}, \frac{25}{2291}\sqrt{410}e^{15},$ $\frac{50}{2291}\sqrt{173}e^{16}$	$(\frac{100}{2291}, \frac{300}{2291}, -\frac{525}{2291}, \frac{400}{2291}, -\frac{425}{2291}, \frac{500}{2291}, -\frac{325}{2291}, \frac{600}{2291})$ $+\frac{25}{2291}\sqrt{2506}e^1 \otimes e_3 + \frac{700}{2291}\sqrt{2}e^2 \otimes e_7$	{1478, 23468}
8531:6	$0, 0, 0, \frac{10}{39}e^{12}, \frac{5}{39}\sqrt{14}e^{13}, \frac{5}{39}\sqrt{6}e^{14}, \frac{5}{39}\sqrt{14}e^{15}, \frac{10}{39}e^{16}$	$(-\frac{10}{39}, \frac{20}{39}, \frac{5}{13}, \frac{10}{39}, \frac{5}{39}, 0, -\frac{5}{39}, -\frac{10}{39})$ $+\frac{5}{39}\sqrt{34}e^2 \otimes e_7 + \frac{5}{39}\sqrt{34}e^3 \otimes e_8$	{1258, 13467}
8531:6	$0, 0, 0, \frac{91}{701}\sqrt{6}e^{12}, \frac{13}{701}\sqrt{435}e^{13}, \frac{39}{701}\sqrt{6}e^{14}, \frac{65}{701}\sqrt{10}e^{15},$ $\frac{13}{701}\sqrt{337}e^{16}$	$(\frac{65}{1402}, -\frac{273}{1402}, \frac{130}{701}, -\frac{104}{701}, \frac{325}{1402}, -\frac{143}{1402}, \frac{195}{701}, -\frac{39}{701})$ $+\frac{13}{701}\sqrt{555}e^3 \otimes e_8 + \frac{13}{701}\sqrt{707}e^1 \otimes e_2$	{1367, 2357}
8531:6	$0, 0, 0, \frac{66}{125}\sqrt{2}e^{12}, \frac{2}{125}\sqrt{330}e^{13}, \frac{2}{125}\sqrt{462}e^{14}, \frac{6}{125}\sqrt{286}e^{15},$ $\frac{12}{125}\sqrt{33}e^{16}$	$(-\frac{29}{125}, \frac{92}{125}, \frac{18}{125}, \frac{63}{125}, -\frac{11}{125}, \frac{34}{125}, -\frac{8}{25}, \frac{1}{25})$ $+\frac{12}{125}\sqrt{187}e^2 \otimes e_7$	{125, 134678, 248, 3567}
8531:6	$0, 0, 0, \frac{4}{61}\sqrt{66}e^{12}, \frac{2}{61}\sqrt{374}e^{13}, \frac{6}{61}\sqrt{22}e^{14}, \frac{2}{61}\sqrt{374}e^{15},$ $\frac{2}{61}\sqrt{286}e^{16}$	$(\frac{17}{61}, -\frac{27}{61}, -\frac{6}{61}, -\frac{10}{61}, \frac{11}{61}, \frac{7}{61}, \frac{28}{61}, \frac{24}{61})$ $+\frac{20}{61}\sqrt{11}e^1 \otimes e_2$	{1367, 156, 2, 2357}
8531:6	$0, 0, 0, \frac{12}{125}\sqrt{33}e^{12}, \frac{6}{125}\sqrt{286}e^{13}, \frac{2}{125}\sqrt{462}e^{14}, \frac{2}{125}\sqrt{330}e^{15},$ $\frac{66}{125}\sqrt{2}e^{16}$	$(-\frac{29}{125}, \frac{41}{125}, \frac{86}{125}, \frac{12}{125}, \frac{57}{125}, -\frac{17}{125}, \frac{28}{125}, -\frac{46}{125})$ $+\frac{12}{125}\sqrt{187}e^3 \otimes e_8$	{123467, 158, 268, 3457}
8531:7	$0, 0, 0, \frac{1}{1561}\sqrt{690}e^{12}, \frac{6}{1561}\sqrt{42}e^{13}, \frac{2}{1561}\sqrt{447}e^{24}, \frac{2}{1561}\sqrt{723}e^{15},$ $\frac{2}{1561}\sqrt{723}e^{26}$	$(\frac{22}{1561}, -\frac{1}{1561}, -\frac{48}{1561}, \frac{3}{223}, -\frac{26}{1561}, \frac{20}{1561}, -\frac{4}{1561}, \frac{19}{1561})$ $+\frac{1}{1561}\sqrt{4002}e^1 \otimes e_8 + \frac{6}{1561}\sqrt{115}e^2 \otimes e_7$	{1256, 248}
8531:7	$0, 0, 0, \frac{1}{79}\sqrt{3598}e^{12}, \frac{1}{237}\sqrt{2570}e^{13}, \frac{4}{237}\sqrt{514}e^{24}, \frac{2}{237}\sqrt{7453}e^{15},$ $\frac{1}{237}\sqrt{2570}e^{26}$	$(\frac{121}{237}, -\frac{26}{237}, -\frac{136}{237}, \frac{95}{237}, -\frac{7}{79}, \frac{23}{79}, \frac{106}{237}, \frac{43}{237})$ $+\frac{1}{79}\sqrt{10794}e^1 \otimes e_3$	{12678, 1467, 234, 38}
8531:7	$0, 0, 0, \frac{62}{4419}\sqrt{447}e^{12}, \frac{62}{1473}\sqrt{6}e^{13}, \frac{1364}{4419}e^{24}, \frac{155}{4419}\sqrt{94}e^{15},$ $\frac{62}{4419}\sqrt{335}e^{26}$	$(\frac{124}{4419}, \frac{124}{1473}, -\frac{93}{491}, \frac{496}{4419}, -\frac{713}{4419}, \frac{868}{4419}, -\frac{589}{4419}, \frac{1240}{4419})$ $+\frac{31}{4419}\sqrt{3030}e^1 \otimes e_3 + \frac{62}{4419}\sqrt{1167}e^2 \otimes e_7$	{14678, 2348}
8531:7	$0, 0, 0, \frac{2}{123}\sqrt{1551}e^{12}, \frac{4}{123}\sqrt{611}e^{13}, \frac{4}{123}\sqrt{94}e^{24}, \frac{2}{123}\sqrt{893}e^{15},$ $\frac{4}{123}\sqrt{611}e^{26}$	$(-\frac{14}{123}, -\frac{1}{41}, \frac{71}{123}, -\frac{17}{123}, \frac{19}{41}, -\frac{20}{123}, \frac{43}{123}, -\frac{23}{123})$ $+\frac{2}{41}\sqrt{517}e^3 \otimes e_8$	{12458, 137, 23567, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8531:7	$0, 0, 0, \frac{2}{519}\sqrt{9867e^{12}}, \frac{4}{519}\sqrt{429e^{13}}, \frac{2}{519}\sqrt{24739e^{24}}, \frac{10}{519}\sqrt{858e^{15}},$ $\frac{10}{519}\sqrt{858e^{26}}$	$(-\frac{42}{173}, \frac{127}{519}, \frac{31}{173}, \frac{1}{519}, -\frac{11}{173}, \frac{128}{519}, -\frac{53}{173}, \frac{85}{173})$ $+\frac{2}{173}\sqrt{6578e^2} \otimes e_7$	{1256, 134678, 248, 357}
8531:7	$0, 0, 0, \frac{2}{63}\sqrt{21e^{12}}, \frac{4}{63}\sqrt{21e^{13}}, \frac{2}{63}\sqrt{91e^{24}}, \frac{2}{9}\sqrt{2e^{15}},$ $\frac{2}{63}\sqrt{154e^{26}}$	$(-\frac{2}{9}, \frac{1}{9}, \frac{1}{3}, -\frac{1}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9})$ $+\frac{2}{63}\sqrt{210e^2} \otimes e_7 + \frac{4}{63}\sqrt{42e^3} \otimes e_8$	{12458, 137}
8531:8	$0, 0, 0, \frac{117}{2393}\sqrt{134e^{12}}, \frac{39}{2393}\sqrt{1646e^{13}}, \frac{156}{2393}\sqrt{55e^{14}},$ $\frac{78}{2393}\sqrt{446e^{24}}, \frac{234}{2393}\sqrt{22e^{16}} + \frac{39}{2393}\sqrt{314e^{23}}$	$(-\frac{195}{2393}, \frac{741}{2393}, -\frac{585}{2393}, \frac{546}{2393}, -\frac{780}{2393}, \frac{351}{2393}, \frac{1287}{2393}, \frac{156}{2393})$ $+\frac{234}{2393}\sqrt{111e^2} \otimes e_5$	{1237, 248}
8531:9	$0, 0, 0, \frac{1}{55}\sqrt{114e^{12}}, \frac{3}{55}\sqrt{26e^{13}}, \frac{2}{55}\sqrt{42e^{14}},$ $\frac{3}{55}\sqrt{26e^{15}} + \frac{2}{55}\sqrt{57e^{23}}, \frac{2}{55}\sqrt{57e^{16}}$	$(-\frac{1}{55}, -\frac{2}{55}, \frac{7}{55}, -\frac{3}{55}, \frac{6}{55}, -\frac{4}{55}, \frac{1}{11}, -\frac{1}{11})$ $+\frac{7}{55}\sqrt{6e^2} \otimes e_8$	{134578, 148}
8531:9	$0, 0, 0, \frac{3}{47}\sqrt{66e^{12}}, \frac{3}{47}\sqrt{22e^{13}}, \frac{1}{47}\sqrt{330e^{14}},$ $\frac{2}{47}\sqrt{165e^{15}} + \frac{3}{47}\sqrt{154e^{23}}, \frac{3}{47}\sqrt{154e^{16}}$	$(-\frac{2}{47}, -\frac{4}{47}, \frac{23}{47}, -\frac{6}{47}, \frac{21}{47}, -\frac{8}{47}, \frac{19}{47}, -\frac{10}{47})$ $+\frac{3}{47}\sqrt{286e^3} \otimes e_8$	{124578, 235}
8531:10	$0, 0, 0, \frac{126}{199}e^{12}, \frac{14}{199}\sqrt{114e^{13}}, \frac{14}{199}\sqrt{6e^{24}},$ $\frac{14}{199}\sqrt{33e^{15}} + \frac{35}{199}\sqrt{6e^{23}}, \frac{14}{199}\sqrt{114e^{26}}$	$(-\frac{7}{199}, -\frac{14}{199}, \frac{98}{199}, -\frac{21}{199}, \frac{91}{199}, -\frac{35}{199}, \frac{84}{199}, -\frac{49}{199})$ $+\frac{126}{199}\sqrt{3e^3} \otimes e_8$	{137, 468}
8531:11	$0, 0, 0, \frac{98}{2929}\sqrt{487e^{12}}, \frac{49}{2929}\sqrt{730e^{13}}, \frac{98}{2929}\sqrt{154e^{14}}, \frac{98}{2929}\sqrt{391e^{35}},$ $\frac{49}{2929}\sqrt{422e^{16}} + \frac{49}{2929}\sqrt{1166e^{23}}$	$(-\frac{147}{2929}, \frac{1372}{2929}, -\frac{441}{2929}, \frac{1225}{2929}, -\frac{588}{2929}, \frac{1078}{2929}, -\frac{1029}{2929}, \frac{931}{2929})$ $+\frac{98}{2929}\sqrt{1185e^2} \otimes e_7$	{1268, 378}
8531:12	$0, 0, 0, -\frac{3}{25}\sqrt{13e^{12}}, \frac{3}{25}\sqrt{29e^{13}}, \frac{3}{25}\sqrt{2e^{14}},$ $\frac{3}{25}\sqrt{5e^{24}} + \frac{3}{25}\sqrt{35e^{35}}, \frac{6}{25}\sqrt{7e^{16}}$	$(-\frac{6}{25}, \frac{9}{25}, \frac{9}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{12}{25}, -\frac{9}{25})$ $+\frac{3}{25}\sqrt{82e^3} \otimes e_8$	{123467, 1578, 268, 345, 123467, 1578, 268, 345}
8531:12	$0, 0, 0, \frac{3}{25}\sqrt{13e^{12}}, \frac{3}{25}\sqrt{29e^{13}}, \frac{3}{25}\sqrt{2e^{14}},$ $\frac{3}{25}\sqrt{5e^{24}} + \frac{3}{25}\sqrt{35e^{35}}, \frac{6}{25}\sqrt{7e^{16}}$	$(-\frac{6}{25}, \frac{9}{25}, \frac{9}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{12}{25}, -\frac{9}{25})$ $+\frac{3}{25}\sqrt{82e^3} \otimes e_8$	{123467, 1578, 268, 345, 123467, 1578, 268, 345}
8531:12	$0, 0, 0, -\frac{6}{25}\sqrt{7e^{12}}, \frac{6}{25}\sqrt{3e^{13}}, \frac{3}{25}\sqrt{2e^{14}},$ $\frac{18}{25}e^{24} + \frac{3}{25}\sqrt{6e^{35}}, \frac{6}{25}\sqrt{7e^{16}}$	$(-\frac{6}{25}, \frac{9}{25}, \frac{9}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{12}{25}, -\frac{9}{25})$ $+\frac{3}{25}\sqrt{82e^2} \otimes e_8$	{234, 245, 368, 568, 234, 245, 368, 568}
8531:12	$0, 0, 0, \frac{6}{25}\sqrt{7e^{12}}, \frac{6}{25}\sqrt{3e^{13}}, \frac{3}{25}\sqrt{2e^{14}},$ $\frac{18}{25}e^{24} + \frac{3}{25}\sqrt{6e^{35}}, \frac{6}{25}\sqrt{7e^{16}}$	$(-\frac{6}{25}, \frac{9}{25}, \frac{9}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{12}{25}, -\frac{9}{25})$ $+\frac{3}{25}\sqrt{82e^2} \otimes e_8$	{234, 245, 368, 568, 234, 245, 368, 568}
8531:14	$0, 0, 0, \frac{62}{3285}\sqrt{435e^{12}}, \frac{31}{3285}\sqrt{3482e^{13}}, \frac{124}{3285}\sqrt{66e^{24}},$ $\frac{62}{3285}\sqrt{534e^{14}} + \frac{31}{3285}\sqrt{2902e^{35}}, \frac{31}{3285}\sqrt{2770e^{26}}$	$(\frac{713}{3285}, -\frac{527}{3285}, \frac{31}{1095}, \frac{62}{1095}, \frac{806}{3285}, -\frac{341}{3285}, \frac{899}{3285}, -\frac{868}{3285})$ $+\frac{31}{3285}\sqrt{5538e^3} \otimes e_8$	{124578, 468}
8531:14	$0, 0, 0, \frac{2}{35}\sqrt{78e^{12}}, \frac{12}{35}\sqrt{2e^{13}}, \frac{2}{35}\sqrt{15e^{24}},$ $\frac{6}{35}\sqrt{14e^{14}} + \frac{2}{35}\sqrt{15e^{35}}, \frac{2}{35}\sqrt{114e^{26}}$	$(\frac{12}{35}, -\frac{8}{35}, \frac{2}{35}, \frac{4}{35}, \frac{2}{35}, -\frac{4}{35}, \frac{16}{35}, -\frac{12}{35})$ $+\frac{2}{35}\sqrt{339e^1} \otimes e_8$	{134, 145}
8531:16	$0, 0, 0, \frac{23}{501}\sqrt{266e^{12}}, \frac{46}{501}\sqrt{10e^{13}}, \frac{23}{501}\sqrt{55e^{14}}, \frac{23}{501}\sqrt{310e^{15}},$ $\frac{23}{501}\sqrt{146e^{16}} + \frac{23}{501}\sqrt{7e^{35}}$	$(-\frac{115}{501}, \frac{368}{501}, \frac{23}{167}, \frac{253}{501}, -\frac{46}{501}, \frac{46}{167}, -\frac{161}{501}, \frac{23}{501})$ $+\frac{23}{501}\sqrt{817e^2} \otimes e_7$	{134678, 3567}
8531:16	$0, 0, 0, \frac{111}{2021}\sqrt{106e^{12}}, \frac{888}{2021}\sqrt{2e^{13}}, \frac{74}{2021}\sqrt{129e^{14}},$ $\frac{37}{2021}\sqrt{1342e^{15}}, \frac{1184}{2021}e^{16} + \frac{37}{2021}\sqrt{570e^{35}}$	$(\frac{481}{2021}, -\frac{888}{2021}, \frac{37}{2021}, -\frac{407}{2021}, \frac{518}{2021}, \frac{74}{2021}, \frac{999}{2021}, \frac{555}{2021})$ $+\frac{37}{2021}\sqrt{3386e^1} \otimes e_2$	{1367, 156}
8531:16	$0, 0, 0, \frac{33}{679}\sqrt{218e^{12}}, \frac{33}{679}\sqrt{138e^{13}}, \frac{22}{679}\sqrt{303e^{14}}, \frac{11}{679}\sqrt{1758e^{15}},$ $\frac{66}{679}\sqrt{33e^{16}} + \frac{66}{679}\sqrt{43e^{35}}$	$(-\frac{121}{679}, \frac{352}{679}, \frac{55}{679}, \frac{33}{97}, -\frac{66}{679}, \frac{110}{679}, -\frac{187}{679}, -\frac{11}{679})$ $+\frac{33}{679}\sqrt{382e^2} \otimes e_8$	{123567, 126}
8531:17	$0, 0, 0, \frac{2}{27}\sqrt{13e^{12}}, \frac{1}{27}\sqrt{26e^{13}}, \frac{1}{9}\sqrt{26e^{24}}, \frac{2}{27}\sqrt{65e^{15}},$ $\frac{2}{27}\sqrt{65e^{26}} + \frac{1}{27}\sqrt{130e^{35}}$	$(-\frac{8}{27}, \frac{2}{9}, \frac{1}{3}, -\frac{2}{27}, \frac{1}{27}, \frac{4}{27}, -\frac{7}{27}, \frac{10}{27})$ $+\frac{2}{27}\sqrt{143e^2} \otimes e_7$	{1256, 248}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8531:18	$0, 0, 0, \frac{348}{1223}\sqrt{2}e^{12}, \frac{58}{1223}\sqrt{13}e^{13}, \frac{29}{3669}\sqrt{2446}e^{24}, \frac{29}{1223}\sqrt{358}e^{35},$ $\frac{58}{3669}\sqrt{582}e^{15} + \frac{29}{1223}\sqrt{262}e^{26}$	$(\frac{232}{1223}, -\frac{29}{3669}, -\frac{261}{1223}, \frac{667}{3669}, -\frac{29}{1223}, \frac{638}{3669}, -\frac{290}{1223}, \frac{203}{1223})$ $+ \frac{145}{3669}\sqrt{246}e^2 \otimes e_7$	{126, 57}
8531:19	$0, 0, 0, \frac{26}{675}\sqrt{177}e^{12}, \frac{13}{225}\sqrt{10}e^{13}, \frac{26}{225}\sqrt{7}e^{14}, \frac{26}{675}\sqrt{381}e^{15},$ $\frac{13}{675}\sqrt{978}e^{16} + \frac{91}{675}\sqrt{30}e^{23}$	$(-\frac{13}{225}, \frac{104}{225}, -\frac{13}{75}, \frac{91}{225}, -\frac{52}{225}, \frac{26}{75}, -\frac{13}{45}, \frac{13}{45})$ $+ \frac{26}{675}\sqrt{843}e^2 \otimes e_7$	{1235, 567}
8531:20	$0, 0, 0, \frac{47}{2125}\sqrt{582}e^{12}, \frac{94}{2125}\sqrt{334}e^{13}, \frac{47}{2125}\sqrt{318}e^{14},$ $\frac{47}{2125}\sqrt{70}e^{15} + \frac{47}{425}\sqrt{14}e^{24}, \frac{47}{2125}\sqrt{1142}e^{16}$	$(-\frac{423}{2125}, \frac{517}{2125}, \frac{1457}{2125}, \frac{94}{2125}, \frac{1034}{2125}, -\frac{329}{2125}, \frac{611}{2125}, -\frac{752}{2125})$ $+ \frac{94}{2125}\sqrt{862}e^3 \otimes e_8$	{158, 3457}
8531:20	$0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{3}e^{13}, \frac{1}{7}\sqrt{6}e^{14},$ $\frac{3}{7}\sqrt{2}e^{15} + \frac{3}{7}\sqrt{2}e^{24}, \frac{3}{7}\sqrt{2}e^{16}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7})$ $+ \frac{6}{7}e^2 \otimes e_8$	{123567, 134578}
8531:20	$0, 0, 0, \frac{17}{28}e^{12}, \frac{17}{532}\sqrt{358}e^{13}, \frac{17}{532}\sqrt{518}e^{14},$ $\frac{17}{532}\sqrt{22}e^{15} + \frac{17}{532}\sqrt{110}e^{24}, \frac{17}{28}e^{16}$	$(\frac{51}{266}, -\frac{85}{1064}, -\frac{187}{532}, \frac{17}{152}, -\frac{85}{532}, \frac{17}{56}, \frac{17}{532}, \frac{527}{1064})$ $+ \frac{17}{532}\sqrt{898}e^1 \otimes e_3$	{126, 148, 234678, 37}
8531:20	$0, 0, 0, \frac{17}{532}e^{12}, \frac{17}{532}\sqrt{358}e^{13}, \frac{17}{532}\sqrt{518}e^{14},$ $\frac{17}{532}\sqrt{22}e^{15} + \frac{17}{532}\sqrt{110}e^{24}, \frac{17}{28}e^{16}$	$(\frac{51}{266}, -\frac{85}{1064}, -\frac{187}{532}, \frac{17}{152}, -\frac{85}{532}, \frac{17}{56}, \frac{17}{532}, \frac{527}{1064})$ $- \frac{17}{532}\sqrt{898}e^1 \otimes e_3$	{126, 148, 234678, 37}
8531:21	$0, 0, 0, \frac{3}{119}\sqrt{511}e^{12}, \frac{3}{17}\sqrt{3}e^{13}, \frac{3}{119}\sqrt{35}e^{14}, \frac{27}{119}\sqrt{7}e^{24},$ $\frac{6}{119}\sqrt{70}e^{16} + \frac{3}{119}\sqrt{462}e^{35}$	$(-\frac{3}{17}, \frac{6}{17}, 0, \frac{3}{17}, -\frac{3}{17}, 0, \frac{9}{17}, -\frac{3}{17})$ $+ \frac{3}{119}\sqrt{1351}e^2 \otimes e_8$	{368, 568}
8531:21	$0, 0, 0, \frac{528}{3077}e^{12}, \frac{33}{3077}\sqrt{3194}e^{13}, \frac{33}{3077}\sqrt{1634}e^{14}, \frac{66}{3077}\sqrt{649}e^{24},$ $\frac{33}{3077}\sqrt{1538}e^{16} + \frac{66}{3077}\sqrt{641}e^{35}$	$(\frac{33}{181}, -\frac{726}{3077}, \frac{198}{3077}, -\frac{165}{3077}, \frac{759}{3077}, \frac{396}{3077}, -\frac{891}{3077}, \frac{957}{3077})$ $+ \frac{33}{3077}\sqrt{5266}e^3 \otimes e_7$	{123468, 267}
8531:22	$0, 0, 0, \frac{17}{1143}\sqrt{6}e^{12}, \frac{17}{1143}\sqrt{1698}e^{13}, \frac{85}{1143}\sqrt{6}e^{24}, \frac{17}{1143}\sqrt{1770}e^{14},$ $\frac{34}{381}\sqrt{10}e^{26} + \frac{17}{1143}\sqrt{2406}e^{35}$	$(-\frac{119}{381}, \frac{34}{127}, \frac{51}{127}, -\frac{17}{381}, \frac{34}{381}, \frac{85}{381}, -\frac{136}{381}, \frac{187}{381})$ $+ \frac{17}{1143}\sqrt{5538}e^3 \otimes e_7$	{123468, 235}
8531:23	$0, 0, 0, \frac{37}{1007}\sqrt{78}e^{12}, \frac{740}{3021}\sqrt{6}e^{13}, \frac{37}{3021}\sqrt{1182}e^{14}, \frac{37}{3021}\sqrt{2014}e^{35},$ $\frac{407}{3021}\sqrt{6}e^{16} + \frac{37}{159}\sqrt{6}e^{24}$	$(-\frac{37}{1007}, -\frac{74}{1007}, \frac{814}{3021}, -\frac{111}{1007}, \frac{37}{159}, -\frac{148}{1007}, \frac{1517}{3021}, -\frac{185}{1007})$ $+ \frac{111}{1007}\sqrt{62}e^3 \otimes e_8$	{123467, 268}
8531:23	$0, 0, 0, \frac{19}{251}\sqrt{67}e^{12}, \frac{19}{753}\sqrt{57}e^{13}, \frac{19}{533}\sqrt{159}e^{14}, \frac{19}{753}\sqrt{502}e^{35},$ $\frac{38}{251}\sqrt{10}e^{16} + \frac{95}{251}\sqrt{3}e^{24}$	$(\frac{19}{251}, \frac{38}{251}, -\frac{152}{753}, \frac{57}{251}, -\frac{95}{753}, \frac{76}{251}, -\frac{247}{753}, \frac{95}{251})$ $+ \frac{19}{251}\sqrt{139}e^2 \otimes e_7$	{134678, 145678}
8531:24	$0, 0, 0, \frac{1}{27}\sqrt{130}e^{12}, \frac{2}{27}\sqrt{65}e^{13}, \frac{1}{27}\sqrt{26}e^{24}, \frac{1}{9}\sqrt{26}e^{35},$ $\frac{2}{27}\sqrt{13}e^{14} + \frac{2}{27}\sqrt{65}e^{26}$	$(-\frac{2}{27}, -\frac{1}{27}, \frac{8}{27}, -\frac{1}{9}, \frac{2}{9}, -\frac{4}{27}, \frac{14}{27}, -\frac{5}{27})$ $+ \frac{2}{27}\sqrt{143}e^3 \otimes e_8$	{2356, 468}
8531:24	$0, 0, 0, \frac{102}{269}e^{12}, \frac{17}{807}\sqrt{102}e^{13}, \frac{102}{269}\sqrt{2}e^{24}, \frac{17}{807}\sqrt{538}e^{35},$ $\frac{17}{807}\sqrt{330}e^{14} + \frac{34}{269}\sqrt{15}e^{26}$	$(\frac{34}{269}, \frac{17}{269}, -\frac{170}{807}, \frac{51}{269}, -\frac{68}{807}, \frac{68}{269}, -\frac{238}{807}, \frac{85}{269})$ $+ \frac{17}{269}\sqrt{146}e^2 \otimes e_7$	{134678, 145678}
8531:31	$0, 0, 0, \frac{13}{157}\sqrt{11}e^{12}, \frac{52}{157}\sqrt{5}e^{13}, \frac{13}{314}\sqrt{30}e^{24}, \frac{13}{157}\sqrt{85}e^{14},$ $\frac{39}{314}\sqrt{6}e^{15} + \frac{13}{157}\sqrt{29}e^{26}$	$(-\frac{39}{157}, \frac{26}{157}, \frac{117}{157}, -\frac{13}{157}, \frac{78}{157}, \frac{13}{157}, -\frac{52}{157}, \frac{39}{157})$ $+ \frac{13}{314}\sqrt{1006}e^3 \otimes e_7$	{12346, 15678}
8531:31	$0, 0, 0, \frac{172}{2397}\sqrt{123}e^{12}, \frac{43}{2397}\sqrt{1038}e^{13}, \frac{43}{2397}\sqrt{382}e^{24},$ $\frac{43}{2397}\sqrt{1906}e^{14}, \frac{172}{2397}\sqrt{31}e^{15} + \frac{86}{2397}\sqrt{142}e^{26}$	$(\frac{43}{141}, -\frac{43}{799}, -\frac{118}{2397}, \frac{602}{2397}, -\frac{129}{799}, \frac{473}{2397}, \frac{1333}{2397}, \frac{344}{2397})$ $+ \frac{43}{2397}\sqrt{4034}e^1 \otimes e_3$	{148, 36}
8531:32	$0, 0, 0, \frac{42}{473}\sqrt{31}e^{12}, \frac{14}{473}\sqrt{381}e^{13}, \frac{28}{473}\sqrt{129}e^{14}, \frac{7}{473}\sqrt{678}e^{15},$ $\frac{42}{473}\sqrt{47}e^{16} + \frac{168}{473}\sqrt{2}e^{24}$	$(\frac{28}{473}, \frac{56}{473}, -\frac{119}{473}, \frac{84}{473}, -\frac{91}{473}, \frac{112}{473}, -\frac{63}{473}, \frac{140}{473})$ $+ \frac{21}{473}\sqrt{282}e^1 \otimes e_3$	{126, 234678}
8531:32	$0, 0, 0, \frac{9}{125}\sqrt{17}e^{12}, \frac{3}{125}\sqrt{255}e^{13}, \frac{9}{125}\sqrt{43}e^{14}, \frac{3}{125}\sqrt{474}e^{15},$ $\frac{3}{125}\sqrt{438}e^{16} + \frac{3}{25}\sqrt{21}e^{24}$	$(\frac{6}{125}, \frac{12}{125}, -\frac{27}{125}, \frac{18}{125}, -\frac{21}{125}, \frac{24}{125}, -\frac{3}{25}, \frac{6}{25})$ $+ \frac{9}{125}\sqrt{73}e^2 \otimes e_7$	{134678, 3567}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8531:33	$0, 0, 0, \frac{18}{71}\sqrt{7}e^{12}, \frac{24}{71}\sqrt{6}e^{13}, \frac{18}{71}\sqrt{2}e^{24}, \frac{6}{71}\sqrt{39}e^{15},$ $\frac{12}{71}\sqrt{3}e^{14} + \frac{24}{71}\sqrt{6}e^{26}$	$(-\frac{6}{71}, -\frac{3}{71}, \frac{39}{71}, -\frac{9}{71}, \frac{33}{71}, -\frac{12}{71}, \frac{27}{71}, -\frac{15}{71})$ $+ \frac{18}{71}\sqrt{19}e^3 \otimes e_8$	{12458, 137}
8531:33	$0, 0, 0, \frac{108}{457}\sqrt{13}e^{12}, \frac{18}{457}\sqrt{309}e^{13}, \frac{54}{457}\sqrt{17}e^{24}, \frac{9}{457}\sqrt{402}e^{15},$ $\frac{18}{457}\sqrt{519}e^{14} + \frac{18}{457}\sqrt{309}e^{26}$	$(\frac{72}{457}, \frac{36}{457}, -\frac{171}{457}, \frac{108}{457}, -\frac{99}{457}, \frac{144}{457}, -\frac{27}{457}, \frac{180}{457})$ $+ \frac{27}{457}\sqrt{278}e^1 \otimes e_3$	{234678, 367}
8531:33	$0, 0, 0, \frac{9}{74}\sqrt{2}e^{12}, \frac{7}{74}\sqrt{6}e^{13}, \frac{9}{74}\sqrt{6}e^{24}, \frac{3}{37}\sqrt{15}e^{15},$ $\frac{1}{74}\sqrt{570}e^{14} + \frac{3}{37}\sqrt{15}e^{26}$	$(\frac{2}{37}, \frac{1}{37}, -\frac{6}{37}, \frac{3}{37}, -\frac{4}{37}, \frac{4}{37}, -\frac{2}{37}, \frac{5}{37})$ $+ \frac{3}{74}\sqrt{82}e^2 \otimes e_7$	{12458, 137}
8531:71	$0, 0, 0, \frac{34}{677}\sqrt{138}e^{12}, \frac{17}{677}\sqrt{542}e^{13}, -\frac{17}{677}\sqrt{690}e^{14}, \frac{17}{677}\sqrt{174}e^{24},$ $\frac{34}{677}\sqrt{138}e^{16} + \frac{34}{677}\sqrt{78}e^{27}$	$(\frac{51}{677}, \frac{51}{677}, -\frac{238}{677}, \frac{102}{677}, -\frac{187}{677}, \frac{153}{677}, \frac{153}{677}, \frac{204}{677})$ $+ \frac{17}{677}\sqrt{1186}e^1 \otimes e_3$	{126, 148, 234678, 37, 126, 148, 234678, 37}
8531:71	$0, 0, 0, \frac{34}{677}\sqrt{138}e^{12}, \frac{17}{677}\sqrt{542}e^{13}, \frac{17}{677}\sqrt{690}e^{14}, \frac{17}{677}\sqrt{174}e^{24},$ $\frac{34}{677}\sqrt{138}e^{16} + \frac{34}{677}\sqrt{78}e^{27}$	$(\frac{51}{677}, \frac{51}{677}, -\frac{238}{677}, \frac{102}{677}, -\frac{187}{677}, \frac{153}{677}, \frac{153}{677}, \frac{204}{677})$ $+ \frac{17}{677}\sqrt{1186}e^1 \otimes e_3$	{126, 148, 234678, 37, 126, 148, 234678, 37}
8531:71	$0, 0, 0, \frac{10}{81}\sqrt{6}e^{12}, \frac{5}{81}\sqrt{74}e^{13}, -\frac{5}{81}\sqrt{39}e^{14}, \frac{5}{81}\sqrt{67}e^{24},$ $\frac{5}{27}\sqrt{5}e^{16} + \frac{5}{81}\sqrt{61}e^{27}$	$(\frac{5}{81}, \frac{5}{81}, -\frac{25}{81}, \frac{10}{81}, -\frac{20}{81}, \frac{5}{27}, \frac{5}{27}, \frac{20}{81})$ $+ \frac{5}{81}\sqrt{138}e^2 \otimes e_5$	{1237, 145678, 248, 356, 1237, 145678, 248, 356}
8531:71	$0, 0, 0, \frac{10}{81}\sqrt{6}e^{12}, \frac{5}{81}\sqrt{74}e^{13}, \frac{5}{81}\sqrt{39}e^{14}, \frac{5}{81}\sqrt{67}e^{24},$ $\frac{5}{27}\sqrt{5}e^{16} + \frac{5}{81}\sqrt{61}e^{27}$	$(\frac{5}{81}, \frac{5}{81}, -\frac{25}{81}, \frac{10}{81}, -\frac{20}{81}, \frac{5}{27}, \frac{5}{27}, \frac{20}{81})$ $+ \frac{5}{81}\sqrt{138}e^2 \otimes e_5$	{1237, 145678, 248, 356, 1237, 145678, 248, 356}
8531:87	$0, 0, 0, \frac{17}{1063}\sqrt{1374}e^{12}, \frac{153}{1063}\sqrt{10}e^{13}, \frac{136}{1063}\sqrt{6}e^{24}, \frac{34}{1063}\sqrt{417}e^{15},$ $\frac{68}{1063}\sqrt{138}e^{17} + \frac{153}{1063}\sqrt{10}e^{26}$	$(\frac{323}{1063}, \frac{34}{1063}, -\frac{544}{1063}, \frac{357}{1063}, -\frac{221}{1063}, \frac{391}{1063}, \frac{102}{1063}, \frac{425}{1063})$ $+ \frac{17}{1063}\sqrt{5226}e^1 \otimes e_3$	{1467, 234}
8531:87	$0, 0, 0, \frac{6}{35}\sqrt{14}e^{12}, \frac{4}{35}\sqrt{39}e^{13}, \frac{6}{35}\sqrt{3}e^{24}, \frac{2}{35}\sqrt{69}e^{15},$ $\frac{2}{35}\sqrt{78}e^{17} + \frac{4}{35}\sqrt{39}e^{26}$	$(-\frac{8}{35}, \frac{2}{35}, \frac{22}{35}, -\frac{6}{35}, \frac{5}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{2}{35})$ $+ \frac{2}{35}\sqrt{339}e^3 \otimes e_8$	{12458, 137}
8531:88	$0, 0, 0, \frac{3}{35}\sqrt{42}e^{12}, \frac{3}{35}\sqrt{42}e^{13}, \frac{3}{35}\sqrt{15}e^{24}, \frac{3}{35}\sqrt{15}e^{35},$ $\frac{3}{35}\sqrt{42}e^{26} + \frac{3}{35}\sqrt{42}e^{37}$	$(\frac{3}{5}, -\frac{9}{35}, -\frac{9}{35}, \frac{12}{35}, \frac{12}{35}, \frac{3}{35}, \frac{3}{35}, -\frac{6}{35})$ $+ \frac{3}{35}\sqrt{165}e^1 \otimes e_8$	{12367, 23458}
8521:1	$0, 0, 0, \frac{18}{559}\sqrt{427}e^{12}, \frac{6}{559}\sqrt{3965}e^{13}, \frac{3}{559}\sqrt{12322}e^{23}, \frac{12}{559}\sqrt{61}e^{14},$ $\frac{30}{559}\sqrt{61}e^{17}$	$(-\frac{92}{559}, \frac{332}{559}, -\frac{125}{559}, \frac{240}{559}, -\frac{217}{559}, \frac{207}{559}, \frac{148}{559}, \frac{56}{559})$ $+ \frac{3}{559}\sqrt{55266}e^2 \otimes e_5$	{123, 14578, 2468, 3567}
8521:1	$0, 0, 0, \frac{8}{373}\sqrt{62}e^{12}, \frac{8}{373}\sqrt{330}e^{13}, \frac{16}{373}\sqrt{102}e^{23}, \frac{24}{373}\sqrt{6}e^{14},$ $\frac{8}{373}\sqrt{210}e^{17}$	$(-\frac{64}{373}, \frac{104}{373}, \frac{40}{373}, \frac{40}{373}, -\frac{24}{373}, \frac{144}{373}, -\frac{24}{373}, -\frac{88}{373})$ $+ \frac{24}{373}\sqrt{66}e^2 \otimes e_5 - \frac{8}{373}\sqrt{730}e^3 \otimes e_8$	{12347, 158, 2678, 3456}
8521:1	$0, 0, 0, \frac{8}{373}\sqrt{62}e^{12}, \frac{8}{373}\sqrt{330}e^{13}, \frac{16}{373}\sqrt{102}e^{23}, \frac{24}{373}\sqrt{6}e^{14},$ $\frac{8}{373}\sqrt{210}e^{17}$	$(-\frac{64}{373}, \frac{104}{373}, \frac{40}{373}, \frac{40}{373}, -\frac{24}{373}, \frac{144}{373}, -\frac{24}{373}, -\frac{88}{373})$ $+ \frac{24}{373}\sqrt{66}e^2 \otimes e_5 + \frac{8}{373}\sqrt{730}e^3 \otimes e_8$	{12347, 158, 2678, 3456}
8521:1	$0, 0, 0, \frac{130}{827}\sqrt{3}e^{12}, \frac{26}{827}\sqrt{37}e^{13}, \frac{13}{827}\sqrt{402}e^{23}, \frac{52}{827}\sqrt{19}e^{14},$ $\frac{26}{827}\sqrt{51}e^{17}$	$(\frac{52}{827}, \frac{52}{827}, -\frac{169}{827}, \frac{104}{827}, -\frac{117}{827}, -\frac{117}{827}, \frac{156}{827}, \frac{208}{827})$ $- \frac{39}{827}\sqrt{66}e^2 \otimes e_5 + \frac{52}{827}\sqrt{53}e^1 \otimes e_6$	{1237, 1458, 24678, 356}
8521:1	$0, 0, 0, \frac{130}{827}\sqrt{3}e^{12}, \frac{26}{827}\sqrt{37}e^{13}, \frac{13}{827}\sqrt{402}e^{23}, \frac{52}{827}\sqrt{19}e^{14},$ $\frac{26}{827}\sqrt{51}e^{17}$	$(\frac{52}{827}, \frac{52}{827}, -\frac{169}{827}, \frac{104}{827}, -\frac{117}{827}, -\frac{117}{827}, \frac{156}{827}, \frac{208}{827})$ $+ \frac{39}{827}\sqrt{66}e^2 \otimes e_5 + \frac{52}{827}\sqrt{53}e^1 \otimes e_6$	{1237, 1458, 24678, 356}
8521:1	$0, 0, 0, \frac{4}{623}\sqrt{78}e^{12}, \frac{6}{623}\sqrt{35}e^{13}, \frac{8}{623}\sqrt{39}e^{23}, \frac{2}{623}\sqrt{465}e^{14},$ $\frac{8}{623}\sqrt{39}e^{17}$	$(-\frac{2}{623}, \frac{23}{623}, -\frac{31}{623}, \frac{3}{89}, -\frac{33}{623}, -\frac{8}{623}, \frac{19}{623}, \frac{17}{623})$ $+ \frac{24}{623}\sqrt{6}e^1 \otimes e_6 + \frac{2}{623}\sqrt{789}e^2 \otimes e_8$	{12357, 148}
8521:1	$0, 0, 0, \frac{2}{205}\sqrt{1695}e^{12}, \frac{1}{205}\sqrt{1130}e^{13}, \frac{2}{205}\sqrt{3390}e^{23}, \frac{2}{205}\sqrt{3955}e^{14},$ $\frac{2}{205}\sqrt{3390}e^{17}$	$(\frac{10}{41}, -\frac{49}{205}, -\frac{14}{205}, \frac{1}{205}, \frac{36}{205}, -\frac{63}{205}, \frac{51}{205}, \frac{101}{205})$ $+ \frac{2}{205}\sqrt{9266}e^1 \otimes e_6$	{12357, 148, 245678, 36}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8521:1	$0, 0, 0, \frac{4}{43}\sqrt{30e^{12}}, \frac{2}{43}\sqrt{195e^{13}}, \frac{8}{43}\sqrt{15e^{23}}, \frac{2}{43}\sqrt{105e^{14}},$ $\frac{8}{43}\sqrt{15e^{17}}$	$(-\frac{10}{43}, \frac{19}{43}, \frac{5}{43}, \frac{9}{43}, -\frac{5}{43}, \frac{24}{43}, -\frac{1}{43}, -\frac{11}{43})$ $+\frac{10}{43}\sqrt{21e^2} \otimes e_8$	{12357, 1267, 134568, 148}
8521:2	$0, 0, 0, \frac{30}{529}\sqrt{2e^{12}}, \frac{5}{529}\sqrt{906e^{13}}, \frac{10}{529}\sqrt{483e^{23}}, \frac{10}{529}\sqrt{489e^{14}},$ $\frac{10}{529}\sqrt{483e^{17}} + \frac{10}{529}\sqrt{447e^{24}}$	$(\frac{20}{529}, \frac{40}{529}, -\frac{95}{529}, \frac{60}{529}, -\frac{75}{529}, -\frac{55}{529}, \frac{80}{529}, \frac{100}{529})$ $+\frac{15}{529}\sqrt{302e^1} \otimes e_6$	{12357, 245678}
8521:2	$0, 0, 0, \frac{42}{473}\sqrt{31e^{12}}, \frac{42}{473}\sqrt{47e^{13}}, \frac{7}{473}\sqrt{678e^{23}}, \frac{168}{473}\sqrt{2e^{14}},$ $\frac{14}{473}\sqrt{381e^{17}} + \frac{28}{473}\sqrt{129e^{24}}$	$(\frac{28}{473}, \frac{56}{473}, -\frac{119}{473}, \frac{84}{473}, -\frac{91}{473}, -\frac{63}{473}, \frac{112}{473}, \frac{140}{473})$ $+\frac{21}{473}\sqrt{282e^2} \otimes e_5$	{145678, 357}
8521:2	$0, 0, 0, \frac{3}{47}\sqrt{66e^{12}}, \frac{1}{47}\sqrt{858e^{13}}, \frac{11}{47}\sqrt{6e^{23}}, \frac{1}{47}\sqrt{330e^{14}},$ $\frac{11}{47}\sqrt{6e^{17}} + \frac{2}{47}\sqrt{165e^{24}}$	$(-\frac{2}{47}, -\frac{4}{47}, \frac{23}{47}, -\frac{6}{47}, \frac{21}{47}, \frac{19}{47}, -\frac{8}{47}, -\frac{10}{47})$ $+\frac{3}{47}\sqrt{286e^3} \otimes e_8$	{12347, 2678}
8521:3	$0, 0, 0, \frac{26}{763}\sqrt{249e^{12}}, \frac{39}{763}\sqrt{134e^{13}}, \frac{13}{763}\sqrt{1398e^{23}}, \frac{13}{763}\sqrt{690e^{14}},$ $\frac{13}{763}\sqrt{1398e^{17}} + \frac{39}{763}\sqrt{66e^{35}}$	$(-\frac{169}{763}, \frac{52}{109}, \frac{13}{763}, \frac{195}{763}, -\frac{156}{763}, \frac{377}{763}, \frac{26}{763}, -\frac{143}{763})$ $+\frac{13}{763}\sqrt{3714e^2} \otimes e_8$	{12357, 1267}
8521:3	$0, 0, 0, \frac{22}{769}\sqrt{111e^{12}}, \frac{11}{769}\sqrt{390e^{13}}, \frac{66}{769}\sqrt{51e^{23}}, \frac{22}{769}\sqrt{417e^{14}},$ $\frac{66}{769}\sqrt{51e^{17}} + \frac{22}{769}\sqrt{237e^{35}}$	$(\frac{176}{769}, -\frac{242}{769}, \frac{55}{769}, -\frac{66}{769}, \frac{231}{769}, -\frac{187}{769}, \frac{110}{769}, \frac{286}{769})$ $+\frac{11}{769}\sqrt{3786e^1} \otimes e_6$	{148, 36}
8521:4	$0, 0, 0, \frac{50}{637}\sqrt{73e^{12}}, \frac{50}{637}\sqrt{58e^{13}}, \frac{25}{637}\sqrt{286e^{23}}, \frac{25}{637}\sqrt{14e^{24}},$ $\frac{50}{637}\sqrt{30e^{27}} + \frac{25}{637}\sqrt{26e^{35}}$	$(\frac{375}{637}, -\frac{100}{637}, -\frac{150}{637}, \frac{275}{637}, \frac{225}{637}, -\frac{250}{637}, \frac{25}{91}, \frac{75}{637})$ $+\frac{25}{637}\sqrt{1030e^1} \otimes e_6$	{1458, 3567}
853:1	$0, 0, 0, \frac{13}{651}\sqrt{382e^{12}}, \frac{13}{651}\sqrt{114e^{13}}, \frac{13}{651}\sqrt{110e^{14}}, \frac{13}{651}\sqrt{214e^{24}},$ $\frac{13}{217}\sqrt{30e^{15}}$	$(\frac{26}{651}, \frac{26}{217}, -\frac{143}{651}, \frac{104}{651}, -\frac{39}{217}, \frac{130}{651}, \frac{26}{93}, -\frac{13}{93})$ $+\frac{13}{651}\sqrt{602e^2} \otimes e_8 + \frac{65}{651}\sqrt{22e^1} \otimes e_3$	{1478, 2346}
853:1	$0, 0, 0, \frac{18}{269}\sqrt{62e^{12}}, \frac{2}{269}\sqrt{1581e^{13}}, \frac{2}{269}\sqrt{5115e^{14}}, \frac{36}{269}\sqrt{31e^{24}},$ $\frac{6}{269}\sqrt{930e^{15}}$	$(-\frac{56}{269}, \frac{107}{269}, \frac{33}{269}, \frac{51}{269}, -\frac{23}{269}, -\frac{5}{269}, \frac{158}{269}, -\frac{79}{269})$ $+\frac{6}{269}\sqrt{2263e^2} \otimes e_8$	{1257, 134678, 24, 3568}
853:1	$0, 0, 0, \frac{24}{511}\sqrt{274e^{12}}, \frac{1}{511}\sqrt{84666e^{13}}, \frac{1}{511}\sqrt{168510e^{14}}, \frac{3}{511}\sqrt{3562e^{24}},$ $\frac{2}{511}\sqrt{7809e^{15}}$	$(\frac{179}{511}, -\frac{65}{511}, -\frac{232}{511}, \frac{114}{511}, -\frac{53}{511}, \frac{293}{511}, \frac{7}{73}, \frac{18}{73})$ $+\frac{3}{511}\sqrt{38634e^1} \otimes e_3$	{1268, 148, 23467, 37}
853:1	$0, 0, 0, \frac{3}{47}\sqrt{66e^{12}}, \frac{12}{47}\sqrt{11e^{13}}, \frac{4}{47}\sqrt{66e^{14}}, \frac{3}{47}\sqrt{154e^{24}},$ $\frac{11}{47}\sqrt{6e^{15}}$	$(-\frac{2}{47}, -\frac{4}{47}, \frac{23}{47}, -\frac{6}{47}, \frac{21}{47}, -\frac{8}{47}, -\frac{10}{47}, \frac{19}{47})$ $+\frac{3}{47}\sqrt{286e^3} \otimes e_7$	{123468, 138, 267, 47}
853:1	$0, 0, 0, \frac{6}{257}\sqrt{47e^{12}}, \frac{16}{257}\sqrt{141e^{13}}, \frac{4}{257}\sqrt{2397e^{14}}, \frac{6}{257}\sqrt{94e^{24}},$ $\frac{2}{257}\sqrt{705e^{15}}$	$(-\frac{74}{257}, \frac{59}{257}, \frac{193}{257}, -\frac{15}{257}, \frac{119}{257}, -\frac{89}{257}, \frac{44}{257}, \frac{45}{257})$ $+\frac{6}{257}\sqrt{3243e^3} \otimes e_6$	{12347, 15678, 235, 468}
853:1	$0, 0, 0, \frac{11}{695}\sqrt{10e^{12}}, \frac{44}{139}\sqrt{e^{13}}, \frac{44}{695}\sqrt{26e^{14}}, \frac{11}{695}\sqrt{602e^{24}},$ $\frac{11}{695}\sqrt{398e^{15}}$	$(-\frac{22}{139}, \frac{88}{695}, \frac{187}{695}, -\frac{22}{695}, \frac{77}{695}, -\frac{132}{695}, \frac{66}{695}, -\frac{33}{695})$ $+\frac{11}{695}\sqrt{622e^3} \otimes e_7 + \frac{22}{695}\sqrt{154e^2} \otimes e_8$	{138, 267}
853:2	$0, 0, 0, \frac{38}{499}\sqrt{15e^{12}}, \frac{38}{499}\sqrt{73e^{13}}, \frac{38}{1497}\sqrt{339e^{14}}, \frac{76}{499}\sqrt{17e^{24}},$ $\frac{38}{1497}\sqrt{499e^{35}}$	$(\frac{23}{499}, -\frac{75}{499}, \frac{341}{1497}, -\frac{52}{499}, \frac{410}{1497}, -\frac{29}{499}, -\frac{127}{499}, \frac{751}{1497})$ $+\frac{38}{1497}\sqrt{1245e^3} \otimes e_7$	{123468, 138, 267, 47}
853:2	$0, 0, 0, \frac{10}{57}\sqrt{3e^{12}}, \frac{5}{57}\sqrt{6e^{13}}, \frac{5}{57}\sqrt{6e^{14}}, \frac{10}{57}\sqrt{3e^{24}},$ $\frac{1}{57}\sqrt{570e^{35}}$	$(-\frac{4}{19}, \frac{5}{19}, \frac{2}{19}, \frac{1}{19}, -\frac{2}{19}, -\frac{3}{19}, \frac{6}{19}, 0)$ $+\frac{2}{57}\sqrt{165e^3} \otimes e_6 + \frac{3}{19}\sqrt{10e^2} \otimes e_8$	{13478, 246}
853:2	$0, 0, 0, \frac{1}{13}\sqrt{69e^{12}}, \frac{1}{39}\sqrt{69e^{13}}, \frac{1}{39}\sqrt{69e^{14}}, \frac{1}{13}\sqrt{69e^{24}},$ $\frac{1}{39}\sqrt{598e^{35}}$	$(-\frac{1}{13}, \frac{4}{13}, -\frac{4}{39}, \frac{3}{13}, -\frac{7}{39}, \frac{2}{13}, \frac{7}{13}, -\frac{11}{39})$ $+\frac{1}{13}\sqrt{161e^2} \otimes e_8$	{12357, 127, 368, 568}
853:2	$0, 0, 0, \frac{1}{51}\sqrt{78e^{12}}, \frac{13}{51}\sqrt{6e^{13}}, \frac{13}{51}\sqrt{6e^{14}}, \frac{1}{51}\sqrt{78e^{24}},$ $\frac{1}{51}\sqrt{1326e^{35}}$	$(-\frac{5}{17}, \frac{4}{17}, \frac{7}{17}, -\frac{1}{17}, \frac{2}{17}, -\frac{6}{17}, \frac{3}{17}, \frac{9}{17})$ $+\frac{1}{51}\sqrt{3198e^3} \otimes e_6$	{123478, 15678, 235, 46}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
853:2	$0, 0, 0, \frac{1}{339}\sqrt{213}e^{12}, \frac{1}{339}\sqrt{435}e^{13}, \frac{1}{113}\sqrt{37}e^{14}, \frac{1}{339}\sqrt{789}e^{24},$ $\frac{1}{339}\sqrt{678}e^{35}$	$(-\frac{5}{113}, \frac{4}{113}, \frac{4}{113}, -\frac{1}{113}, -\frac{1}{113}, -\frac{6}{113}, \frac{3}{113}, \frac{3}{113})$ $+\frac{1}{339}\sqrt{849}e^2 \otimes e_8 + \frac{8}{339}\sqrt{15}e^3 \otimes e_7$	{145678, 2345}
853:2	$0, 0, 0, \frac{130}{1213}\sqrt{5}e^{12}, \frac{26}{1213}\sqrt{223}e^{13}, \frac{26}{1213}\sqrt{11}e^{14}, \frac{52}{1213}\sqrt{102}e^{24},$ $\frac{78}{1213}\sqrt{29}e^{35}$	$(-\frac{169}{1213}, \frac{65}{1213}, \frac{299}{1213}, -\frac{104}{1213}, \frac{130}{1213}, -\frac{273}{1213}, -\frac{39}{1213}, \frac{429}{1213})$ $+\frac{26}{1213}\sqrt{430}e^2 \otimes e_6 + \frac{26}{1213}\sqrt{615}e^3 \otimes e_7$	{12578, 145678, 2345, 356}
853:2	$0, 0, 0, \frac{130}{1213}\sqrt{5}e^{12}, \frac{26}{1213}\sqrt{223}e^{13}, \frac{26}{1213}\sqrt{11}e^{14}, \frac{52}{1213}\sqrt{102}e^{24},$ $\frac{78}{1213}\sqrt{29}e^{35}$	$(-\frac{169}{1213}, \frac{65}{1213}, \frac{299}{1213}, -\frac{104}{1213}, \frac{130}{1213}, -\frac{273}{1213}, -\frac{39}{1213}, \frac{429}{1213})$ $-\frac{26}{1213}\sqrt{430}e^2 \otimes e_6 + \frac{26}{1213}\sqrt{615}e^3 \otimes e_7$	{12578, 145678, 2345, 356}
853:3	$0, 0, 0, \frac{15}{119}\sqrt{2}e^{12}, \frac{5}{119}\sqrt{30}e^{13}, \frac{10}{119}\sqrt{102}e^{14}, \frac{45}{119}\sqrt{3}e^{24},$ $\frac{5}{119}\sqrt{237}e^{15} + \frac{15}{119}\sqrt{46}e^{23}$	$(-\frac{5}{119}, -\frac{10}{119}, \frac{55}{119}, -\frac{15}{119}, \frac{50}{119}, -\frac{20}{119}, -\frac{25}{119}, \frac{45}{119})$ $+\frac{15}{119}\sqrt{69}e^3 \otimes e_6$	{167, 456}
853:4	$0, 0, 0, \frac{33}{679}\sqrt{138}e^{12}, \frac{33}{679}\sqrt{218}e^{13}, \frac{66}{679}\sqrt{43}e^{24},$ $\frac{11}{679}\sqrt{1758}e^{14} + \frac{66}{679}\sqrt{33}e^{23}, \frac{22}{679}\sqrt{303}e^{15}$	$(\frac{11}{97}, -\frac{143}{679}, \frac{22}{97}, -\frac{66}{679}, \frac{33}{97}, -\frac{209}{679}, \frac{11}{679}, \frac{44}{97})$ $+\frac{33}{679}\sqrt{382}e^3 \otimes e_6$	{267, 46}
853:4	$0, 0, 0, \frac{17}{531}\sqrt{107}e^{12}, \frac{17}{531}\sqrt{31}e^{13}, \frac{17}{531}\sqrt{359}e^{24},$ $\frac{17}{531}\sqrt{305}e^{14} + \frac{17}{531}\sqrt{290}e^{23}, \frac{34}{531}\sqrt{105}e^{15}$	$(-\frac{34}{531}, \frac{17}{59}, -\frac{68}{531}, \frac{119}{531}, -\frac{34}{531}, \frac{272}{531}, \frac{85}{531}, -\frac{136}{531})$ $+\frac{17}{531}\sqrt{877}e^2 \otimes e_8$	{134678, 3578}
853:5	$0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{371}\sqrt{553}e^{13}, \frac{60}{371}\sqrt{14}e^{24},$ $\frac{30}{371}\sqrt{35}e^{14} + \frac{5}{371}\sqrt{406}e^{23}, \frac{10}{371}\sqrt{399}e^{35}$	$(\frac{5}{53}, -\frac{10}{53}, \frac{10}{53}, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0, \frac{25}{53})$ $+\frac{10}{371}\sqrt{1085}e^3 \otimes e_6$	{267, 46}
853:5	$0, 0, 0, \frac{1}{17}\sqrt{115}e^{12}, \frac{1}{17}\sqrt{15}e^{13}, \frac{1}{17}\sqrt{115}e^{24},$ $\frac{1}{17}\sqrt{15}e^{14} + \frac{1}{17}\sqrt{10}e^{23}, \frac{1}{17}\sqrt{110}e^{35}$	$(-\frac{1}{17}, \frac{5}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{9}{17}, \frac{3}{17}, -\frac{5}{17})$ $+\frac{5}{17}\sqrt{11}e^2 \otimes e_8$	{12356, 378}
853:9	$0, 0, 0, \frac{7}{213}\sqrt{258}e^{12}, \frac{14}{213}\sqrt{21}e^{13}, \frac{14}{213}\sqrt{129}e^{24}, \frac{14}{213}\sqrt{105}e^{15},$ $\frac{7}{213}\sqrt{30}e^{14} + \frac{7}{213}\sqrt{30}e^{35}$	$(-\frac{14}{71}, \frac{28}{71}, \frac{7}{71}, \frac{14}{71}, -\frac{7}{71}, \frac{42}{71}, -\frac{21}{71}, 0)$ $+\frac{7}{213}\sqrt{1038}e^2 \otimes e_7$	{134678, 24}
853:9	$0, 0, 0, \frac{11}{623}\sqrt{222}e^{12}, \frac{22}{623}\sqrt{174}e^{13}, \frac{11}{623}\sqrt{622}e^{24}, \frac{55}{623}\sqrt{6}e^{15},$ $\frac{22}{623}\sqrt{155}e^{14} + \frac{22}{623}\sqrt{143}e^{35}$	$(\frac{88}{623}, -\frac{110}{623}, -\frac{11}{623}, -\frac{22}{623}, \frac{11}{89}, -\frac{132}{623}, \frac{165}{623}, \frac{66}{623})$ $+\frac{11}{623}\sqrt{1066}e^3 \otimes e_6$	{123478, 46}
852:1	$0, 0, 0, \frac{9}{529}\sqrt{1066}e^{12}, \frac{3}{529}\sqrt{1394}e^{13}, \frac{3}{529}\sqrt{13202}e^{23}, \frac{60}{529}\sqrt{41}e^{14},$ $\frac{12}{529}\sqrt{451}e^{24}$	$(\frac{195}{529}, -\frac{93}{529}, -\frac{81}{529}, \frac{102}{529}, \frac{114}{529}, -\frac{174}{529}, \frac{297}{529}, \frac{9}{529})$ $+\frac{36}{529}\sqrt{246}e^1 \otimes e_6$	{1237, 145, 24678, 3568}
852:1	$0, 0, 0, \frac{36}{1007}\sqrt{143}e^{12}, \frac{132}{1007}\sqrt{11}e^{13}, \frac{240}{1007}\sqrt{11}e^{23}, \frac{12}{53}\sqrt{11}e^{14},$ $\frac{12}{1007}\sqrt{2167}e^{24}$	$(-\frac{195}{1007}, \frac{84}{1007}, \frac{486}{1007}, -\frac{111}{1007}, \frac{291}{1007}, \frac{30}{53}, -\frac{306}{1007}, -\frac{27}{1007})$ $+\frac{36}{1007}\sqrt{1023}e^3 \otimes e_7$	{12348, 1578, 235, 47}
852:1	$0, 0, 0, \frac{90}{3347}\sqrt{7}e^{12}, \frac{15}{3347}\sqrt{458}e^{13}, \frac{30}{3347}\sqrt{623}e^{23}, \frac{60}{3347}\sqrt{161}e^{14},$ $\frac{30}{3347}\sqrt{373}e^{24}$	$(\frac{210}{3347}, -\frac{330}{3347}, \frac{315}{3347}, -\frac{120}{3347}, \frac{525}{3347}, -\frac{15}{3347}, \frac{90}{3347}, -\frac{450}{3347})$ $+\frac{45}{3347}\sqrt{346}e^1 \otimes e_6 + \frac{90}{3347}\sqrt{83}e^3 \otimes e_7$	{24678, 3568}
852:1	$0, 0, 0, \frac{2}{27}\sqrt{6}e^{12}, \frac{1}{27}\sqrt{102}e^{13}, \frac{2}{9}\sqrt{3}e^{23}, \frac{4}{27}\sqrt{3}e^{14}, \frac{2}{9}e^{24}$	$(\frac{2}{9}, -\frac{2}{9}, \frac{1}{9}, 0, \frac{1}{3}, -\frac{1}{9}, \frac{2}{9}, -\frac{2}{9})$ $+\frac{1}{27}\sqrt{222}e^1 \otimes e_6 + \frac{2}{27}\sqrt{51}e^3 \otimes e_8$	{1458, 356}
852:1	$0, 0, 0, \frac{9}{41}\sqrt{2}e^{12}, \frac{3}{41}\sqrt{14}e^{13}, \frac{3}{41}\sqrt{14}e^{23}, \frac{6}{41}\sqrt{2}e^{14},$ $\frac{6}{41}\sqrt{2}e^{24}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{6}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41}, \frac{9}{41})$ $+\frac{18}{41}e^1 \otimes e_6 - \frac{18}{41}e^2 \otimes e_5$	{12378, 1458, 356}
852:1	$0, 0, 0, \frac{9}{41}\sqrt{2}e^{12}, \frac{3}{41}\sqrt{14}e^{13}, \frac{3}{41}\sqrt{14}e^{23}, \frac{6}{41}\sqrt{2}e^{14},$ $\frac{6}{41}\sqrt{2}e^{24}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{6}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41}, \frac{9}{41})$ $+\frac{18}{41}e^1 \otimes e_6 + \frac{18}{41}e^2 \otimes e_5$	{12378, 1458, 356}
852:2	$0, 0, 0, \frac{11}{37}\sqrt{2}e^{12}, \frac{11}{37}\sqrt{2}e^{13}, \frac{33}{185}\sqrt{10}e^{23}, \frac{44}{185}\sqrt{5}e^{14},$ $\frac{44}{185}\sqrt{5}e^{15}$	$(\frac{11}{37}, -\frac{33}{185}, -\frac{33}{185}, \frac{22}{185}, \frac{22}{185}, -\frac{66}{185}, \frac{77}{185}, \frac{77}{185})$ $+\frac{22}{185}\sqrt{74}e^1 \otimes e_6$	{12378, 145, 2467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
852:2	$0, 0, 0, \frac{44}{1693}\sqrt{65}e^{12}, \frac{22}{1693}\sqrt{29}e^{13}, \frac{132}{1693}\sqrt{13}e^{23}, \frac{22}{1693}\sqrt{185}e^{14},$ $\frac{88}{1693}\sqrt{26}e^{15}$	$(\frac{110}{1693}, \frac{165}{1693}, -\frac{297}{1693}, \frac{275}{1693}, -\frac{187}{1693}, -\frac{132}{1693}, \frac{385}{1693}, -\frac{77}{1693})$ $+\frac{440}{1693}\sqrt{2}e^1 \otimes e_6 + \frac{66}{1693}\sqrt{77}e^2 \otimes e_8$	{2467, 3568}
852:2	$0, 0, 0, \frac{8}{325}\sqrt{38}e^{12}, \frac{8}{325}\sqrt{38}e^{13}, \frac{16}{325}\sqrt{102}e^{23}, \frac{8}{325}\sqrt{174}e^{14},$ $\frac{8}{325}\sqrt{174}e^{15}$	$(-\frac{64}{325}, \frac{72}{325}, \frac{72}{325}, \frac{8}{325}, \frac{8}{325}, \frac{144}{325}, -\frac{56}{325}, -\frac{56}{325})$ $+\frac{8}{325}\sqrt{566}e^2 \otimes e_8 + \frac{8}{325}\sqrt{566}e^3 \otimes e_7$	{12567, 2467}
852:2	$0, 0, 0, \frac{8}{325}\sqrt{38}e^{12}, \frac{8}{325}\sqrt{38}e^{13}, \frac{16}{325}\sqrt{102}e^{23}, \frac{8}{325}\sqrt{174}e^{14},$ $\frac{8}{325}\sqrt{174}e^{15}$	$(-\frac{64}{325}, \frac{72}{325}, \frac{72}{325}, \frac{8}{325}, \frac{8}{325}, \frac{144}{325}, -\frac{56}{325}, -\frac{56}{325})$ $+\frac{8}{325}\sqrt{566}e^2 \otimes e_8 - \frac{8}{325}\sqrt{566}e^3 \otimes e_7$	{12567, 2467}
852:2	$0, 0, 0, \frac{12}{1049}\sqrt{2265}e^{12}, \frac{2}{1049}\sqrt{46659}e^{13}, \frac{36}{1049}\sqrt{453}e^{23},$ $\frac{2}{1049}\sqrt{2265}e^{14}, \frac{24}{1049}\sqrt{906}e^{15}$	$(-\frac{170}{1049}, \frac{545}{1049}, -\frac{21}{1049}, \frac{375}{1049}, -\frac{191}{1049}, \frac{524}{1049}, \frac{205}{1049}, -\frac{361}{1049})$ $+\frac{6}{1049}\sqrt{42733}e^2 \otimes e_8$	{12357, 148, 2347, 58}
852:3	$0, 0, 0, \frac{8}{259}\sqrt{286}e^{12}, \frac{24}{259}\sqrt{11}e^{13}, \frac{8}{259}\sqrt{286}e^{23}, \frac{4}{259}\sqrt{1518}e^{24},$ $\frac{4}{259}\sqrt{1518}e^{15}$	$(-\frac{53}{259}, \frac{86}{259}, \frac{16}{259}, \frac{33}{259}, -\frac{1}{7}, \frac{102}{259}, \frac{17}{37}, -\frac{90}{259})$ $+\frac{44}{259}\sqrt{38}e^2 \otimes e_8$	{12357, 1478, 234, 58}
852:3	$0, 0, 0, \frac{50}{617}\sqrt{3}e^{12}, \frac{130}{617}\sqrt{3}e^{13}, \frac{90}{617}\sqrt{5}e^{23}, \frac{20}{617}\sqrt{51}e^{24},$ $\frac{10}{617}\sqrt{381}e^{15}$	$(\frac{85}{617}, -\frac{100}{617}, \frac{35}{617}, -\frac{15}{617}, \frac{120}{617}, -\frac{65}{617}, -\frac{115}{617}, \frac{205}{617})$ $+\frac{10}{617}\sqrt{834}e^1 \otimes e_6 + \frac{30}{617}\sqrt{87}e^3 \otimes e_7$	{12348, 267}
852:3	$0, 0, 0, \frac{23}{3891}\sqrt{1110}e^{12}, \frac{46}{3891}\sqrt{114}e^{13}, \frac{46}{3891}\sqrt{443}e^{23}, \frac{230}{1297}e^{24},$ $\frac{92}{3891}\sqrt{139}e^{15}$	$(\frac{230}{3891}, \frac{115}{1297}, -\frac{644}{3891}, \frac{575}{3891}, -\frac{138}{1297}, -\frac{299}{3891}, \frac{920}{3891}, -\frac{184}{3891})$ $+\frac{23}{3891}\sqrt{3310}e^1 \otimes e_6 + \frac{46}{3891}\sqrt{883}e^2 \otimes e_8$	{246, 3568}
852:3	$0, 0, 0, \frac{354}{1277}\sqrt{3}e^{12}, \frac{6}{1277}\sqrt{24013}e^{13}, \frac{6}{1277}\sqrt{13747}e^{23},$ $\frac{12}{1277}\sqrt{5133}e^{24}, \frac{6}{1277}\sqrt{8437}e^{15}$	$(-\frac{121}{1277}, -\frac{152}{1277}, \frac{637}{1277}, -\frac{273}{1277}, \frac{516}{1277}, \frac{485}{1277}, -\frac{425}{1277}, \frac{395}{1277})$ $+\frac{30}{1277}\sqrt{2419}e^3 \otimes e_7$	{12348, 1368, 267, 47}
852:3	$0, 0, 0, \frac{7}{649}\sqrt{978}e^{12}, \frac{1}{649}\sqrt{145722}e^{13}, \frac{3}{649}\sqrt{16626}e^{23}, \frac{4}{649}\sqrt{489}e^{24},$ $\frac{20}{649}\sqrt{489}e^{15}$	$(\frac{251}{649}, -\frac{65}{649}, -\frac{173}{649}, \frac{186}{649}, \frac{78}{649}, -\frac{238}{649}, \frac{11}{59}, \frac{329}{649})$ $+\frac{4}{649}\sqrt{31785}e^1 \otimes e_6$	{1238, 145, 2467, 35678}
852:3	$0, 0, 0, \frac{464}{3449}e^{12}, \frac{174}{3449}\sqrt{19}e^{13}, \frac{406}{3449}\sqrt{7}e^{23}, \frac{29}{3449}\sqrt{1842}e^{24},$ $\frac{58}{3449}\sqrt{321}e^{15}$	$(-\frac{667}{3449}, \frac{319}{3449}, \frac{812}{3449}, -\frac{348}{3449}, \frac{145}{3449}, \frac{1131}{3449}, -\frac{29}{3449}, -\frac{522}{3449})$ $+\frac{29}{3449}\sqrt{3218}e^2 \otimes e_8 + \frac{87}{3449}\sqrt{310}e^3 \otimes e_7$	{12567, 3568}
852:4	$0, 0, 0, \frac{10}{389}\sqrt{26}e^{12}, \frac{10}{389}\sqrt{26}e^{13}, \frac{5}{389}\sqrt{22}e^{23}, \frac{30}{389}\sqrt{7}e^{24},$ $\frac{30}{389}\sqrt{7}e^{35}$	$(-\frac{55}{389}, \frac{30}{389}, \frac{30}{389}, -\frac{25}{389}, -\frac{25}{389}, \frac{60}{389}, \frac{5}{389}, \frac{5}{389})$ $+\frac{10}{389}\sqrt{85}e^2 \otimes e_8 + \frac{10}{389}\sqrt{85}e^3 \otimes e_7$	{14578, 2345}
852:4	$0, 0, 0, \frac{5}{211}\sqrt{730}e^{12}, \frac{10}{211}\sqrt{30}e^{13}, \frac{10}{211}\sqrt{10}e^{23}, \frac{5}{211}\sqrt{690}e^{24},$ $\frac{5}{211}\sqrt{690}e^{35}$	$(-\frac{20}{211}, \frac{65}{211}, -\frac{20}{211}, \frac{45}{211}, -\frac{20}{211}, \frac{45}{211}, \frac{110}{211}, -\frac{60}{211})$ $+\frac{50}{211}\sqrt{17}e^2 \otimes e_8$	{12357, 1267, 368, 58}
852:4	$0, 0, 0, \frac{30}{271}\sqrt{13}e^{12}, \frac{20}{271}\sqrt{3}e^{13}, \frac{5}{271}\sqrt{174}e^{23}, \frac{35}{271}\sqrt{6}e^{24},$ $\frac{35}{271}\sqrt{6}e^{35}$	$(\frac{45}{271}, \frac{20}{271}, -\frac{50}{271}, \frac{65}{271}, -\frac{5}{271}, -\frac{30}{271}, \frac{85}{271}, -\frac{55}{271})$ $+\frac{10}{271}\sqrt{210}e^2 \otimes e_8 + \frac{5}{271}\sqrt{570}e^1 \otimes e_6$	{14578, 246}
852:5	$0, 0, 0, \frac{11}{683}\sqrt{354}e^{12}, \frac{11}{683}\sqrt{354}e^{13}, \frac{11}{683}\sqrt{1482}e^{23}, \frac{220}{683}\sqrt{3}e^{14},$ $\frac{220}{683}\sqrt{3}e^{15} + \frac{44}{683}\sqrt{66}e^{24}$	$(\frac{165}{683}, -\frac{11}{683}, -\frac{187}{683}, \frac{154}{683}, -\frac{22}{683}, -\frac{198}{683}, \frac{319}{683}, \frac{143}{683})$ $+\frac{66}{683}\sqrt{94}e^1 \otimes e_6$	{145, 3568}
852:5	$0, 0, 0, \frac{26}{651}\sqrt{141}e^{12}, \frac{26}{651}\sqrt{129}e^{13}, \frac{26}{651}\sqrt{399}e^{23}, \frac{13}{651}\sqrt{1326}e^{14},$ $\frac{13}{651}\sqrt{246}e^{15} + \frac{13}{651}\sqrt{834}e^{24}$	$(-\frac{143}{651}, \frac{26}{217}, \frac{299}{651}, -\frac{65}{651}, \frac{52}{217}, \frac{377}{651}, -\frac{208}{651}, \frac{13}{651})$ $+\frac{78}{217}\sqrt{10}e^3 \otimes e_7$	{12348, 47}
852:6	$0, 0, 0, -\frac{9}{308}\sqrt{114}e^{12}, \frac{9}{308}\sqrt{166}e^{13}, \frac{9}{154}\sqrt{94}e^{23}, \frac{9}{154}\sqrt{118}e^{14},$ $\frac{45}{308}\sqrt{14}e^{24} + \frac{9}{308}\sqrt{402}e^{35}$	$(-\frac{81}{308}, \frac{18}{77}, \frac{18}{77}, -\frac{9}{308}, -\frac{9}{308}, \frac{36}{77}, -\frac{45}{154}, \frac{9}{44})$ $+\frac{9}{154}\sqrt{258}e^3 \otimes e_7$	{12348, 1578, 235, 47, 12348, 1578, 235, 47}
852:6	$0, 0, 0, \frac{9}{308}\sqrt{114}e^{12}, \frac{9}{308}\sqrt{166}e^{13}, \frac{9}{154}\sqrt{94}e^{23}, \frac{9}{154}\sqrt{118}e^{14},$ $\frac{45}{308}\sqrt{14}e^{24} + \frac{9}{308}\sqrt{402}e^{35}$	$(-\frac{81}{308}, \frac{18}{77}, \frac{18}{77}, -\frac{9}{308}, -\frac{9}{308}, \frac{36}{77}, -\frac{45}{154}, \frac{9}{44})$ $+\frac{9}{154}\sqrt{258}e^3 \otimes e_7$	{12348, 1578, 235, 47, 12348, 1578, 235, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
852:8	$0, 0, 0, \frac{60}{589}\sqrt{2}e^{12}, \frac{5}{589}\sqrt{2262}e^{13}, \frac{10}{589}\sqrt{231}e^{23}, \frac{5}{31}\sqrt{6}e^{24},$ $\frac{10}{589}\sqrt{510}e^{14} + \frac{5}{31}\sqrt{6}e^{35}$	$(\frac{90}{589}, -\frac{80}{589}, \frac{5}{589}, \frac{10}{589}, \frac{5}{31}, -\frac{75}{589}, -\frac{70}{589}, \frac{100}{589})$ $+ \frac{30}{589}\sqrt{85}e^3 \otimes e_7$	{123468, 467}
852:8	$0, 0, 0, \frac{45}{139}\sqrt{2}e^{12}, \frac{5}{139}\sqrt{78}e^{13}, \frac{5}{139}\sqrt{426}e^{23}, \frac{10}{139}\sqrt{66}e^{24},$ $\frac{20}{139}\sqrt{30}e^{14} + \frac{10}{139}\sqrt{66}e^{35}$	$(\frac{45}{139}, -\frac{35}{139}, \frac{5}{139}, \frac{10}{139}, \frac{50}{139}, -\frac{30}{139}, -\frac{25}{139}, \frac{55}{139})$ $+ \frac{60}{139}\sqrt{5}e^1 \otimes e_6$	{12358, 367}
852:16	$0, 0, 0, \frac{43}{2721}\sqrt{374}e^{12}, \frac{86}{2721}\sqrt{273}e^{13}, \frac{43}{2721}\sqrt{1090}e^{23},$ $\frac{215}{2721}\sqrt{58}e^{14}, \frac{43}{2721}\sqrt{10}e^{26} + \frac{43}{2721}\sqrt{1454}e^{35}$	$(-\frac{559}{2721}, \frac{172}{2721}, \frac{301}{907}, -\frac{129}{907}, \frac{344}{2721}, \frac{1075}{2721}, -\frac{946}{2721}, \frac{1247}{2721})$ $+ \frac{86}{907}\sqrt{122}e^3 \otimes e_7$	{1578, 235}
84321:1	$0, 0, 0, 0, \frac{2}{55}\sqrt{190}e^{12}, \frac{2}{55}\sqrt{285}e^{15}, \frac{2}{55}\sqrt{285}e^{16}, \frac{2}{55}\sqrt{190}e^{17}$	$(\frac{1}{11}, \frac{1}{55}, -\frac{3}{5}, \frac{1}{5}, \frac{6}{55}, \frac{1}{5}, \frac{16}{55}, \frac{21}{55})$ $+ \frac{4}{55}\sqrt{209}e^1 \otimes e_3$	{12468, 1268, 1457, 157, 2345678, 235678, 3, 34}
84321:1	$0, 0, 0, 0, \frac{4}{31}\sqrt{57}e^{12}, \frac{2}{31}\sqrt{57}e^{15}, \frac{2}{31}\sqrt{38}e^{16}, \frac{2}{31}\sqrt{57}e^{17}$	$(-\frac{4}{31}, \frac{19}{31}, -\frac{19}{31}, \frac{6}{31}, \frac{15}{31}, \frac{11}{31}, \frac{7}{31}, \frac{3}{31})$ $+ \frac{10}{31}\sqrt{19}e^2 \otimes e_3$	{124678, 12678, 1345, 135, 24568, 2568, 347, 37}
84321:1	$0, 0, 0, 0, \frac{1}{25}\sqrt{78}e^{12}, \frac{3}{25}\sqrt{13}e^{15}, \frac{3}{25}\sqrt{13}e^{16}, \frac{1}{25}\sqrt{78}e^{17}$	$(\frac{1}{50}, \frac{9}{50}, 1, -\frac{14}{25}, \frac{1}{5}, \frac{11}{25}, \frac{6}{25}, \frac{13}{50})$ $+ \frac{39}{25}e^3 \otimes e_4$	{12368, 12468, 1357, 1457, 235678, 245678, 3, 4}
84321:1	$0, 0, 0, 0, \frac{4}{507}\sqrt{1914}e^{12}, \frac{14}{507}\sqrt{87}e^{15}, \frac{2}{507}\sqrt{12093}e^{16}, \frac{2}{507}\sqrt{15834}e^{17}$	$(\frac{47}{507}, -\frac{127}{507}, \frac{235}{507}, \frac{19}{169}, -\frac{80}{507}, -\frac{11}{169}, \frac{14}{507}, \frac{61}{507})$ $+ \frac{2}{507}\sqrt{15486}e^3 \otimes e_8 + \frac{8}{507}\sqrt{1479}e^1 \otimes e_2$	{1468, 168, 23, 234}
84321:1	$0, 0, 0, 0, \frac{2}{31}\sqrt{57}e^{12}, \frac{2}{31}\sqrt{38}e^{15}, \frac{2}{31}\sqrt{57}e^{16}, \frac{4}{31}\sqrt{57}e^{17}$	$(-\frac{4}{31}, \frac{9}{31}, 1, \frac{6}{31}, \frac{5}{31}, \frac{1}{31}, -\frac{3}{31}, -\frac{7}{31})$ $+ \frac{10}{31}\sqrt{19}e^3 \otimes e_8$	{124568, 12568, 1347, 137, 24678, 2678, 345, 35}
84321:1	$0, 0, 0, 0, \frac{2}{183}\sqrt{1742}e^{12}, \frac{2}{183}\sqrt{67}e^{15}, \frac{2}{183}\sqrt{67}e^{16}, \frac{2}{183}\sqrt{1742}e^{17}$	$(-\frac{9}{61}, \frac{77}{183}, \frac{103}{183}, -\frac{19}{61}, \frac{50}{183}, \frac{23}{183}, -\frac{4}{183}, -\frac{31}{183})$ $+ \frac{8}{183}\sqrt{335}e^2 \otimes e_4 + \frac{8}{183}\sqrt{335}e^3 \otimes e_8$	{128, 134567, 2578, 346}
84321:1	$0, 0, 0, 0, \frac{4}{15}\sqrt{3}e^{12}, \frac{2}{5}e^{15}, \frac{2}{15}\sqrt{6}e^{16}, \frac{2}{15}\sqrt{3}e^{17}$	$(0, \frac{1}{5}, -\frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{15}\sqrt{15}e^2 \otimes e_4 + \frac{4}{15}\sqrt{6}e^1 \otimes e_3$	{1268, 1457, 235678, 34}
84321:1	$0, 0, 0, 0, \frac{2}{15}\sqrt{3}e^{12}, \frac{2}{15}\sqrt{6}e^{15}, \frac{2}{5}e^{16}, \frac{4}{15}\sqrt{3}e^{17}$	$(0, \frac{1}{15}, \frac{7}{15}, -\frac{2}{5}, \frac{1}{15}, \frac{1}{15}, \frac{1}{15}, \frac{1}{15})$ $+ \frac{2}{15}\sqrt{15}e^3 \otimes e_8 + \frac{4}{15}\sqrt{6}e^1 \otimes e_4$	{1268, 1357, 245678, 34}
84321:1	$0, 0, 0, 0, \frac{92}{355}\sqrt{2}e^{12}, \frac{8}{355}\sqrt{345}e^{15}, \frac{4}{355}\sqrt{2369}e^{16}, \frac{4}{355}\sqrt{1909}e^{17}$	$(\frac{63}{355}, -\frac{121}{355}, \frac{28}{71}, -\frac{44}{355}, -\frac{58}{355}, \frac{1}{71}, \frac{68}{355}, \frac{131}{355})$ $+ \frac{184}{355}e^3 \otimes e_4 + \frac{4}{355}\sqrt{4945}e^1 \otimes e_2$	{1368, 1468, 23, 24}
84321:1	$0, 0, 0, 0, \frac{92}{263}\sqrt{2}e^{12}, \frac{8}{263}\sqrt{345}e^{15}, \frac{4}{263}\sqrt{2369}e^{16}, \frac{4}{263}\sqrt{1909}e^{17}$	$(\frac{63}{263}, -\frac{121}{263}, \frac{48}{263}, \frac{48}{263}, -\frac{58}{263}, \frac{5}{263}, \frac{68}{263}, \frac{131}{263})$ $+ \frac{4}{263}\sqrt{4945}e^1 \otimes e_2$	{13468, 1368, 168, 2, 23, 234}
84321:2	$0, 0, 0, 0, \frac{6}{245}\sqrt{238}e^{12}, \frac{12}{245}\sqrt{70}e^{15}, \frac{36}{245}\sqrt{14}e^{16},$ $\frac{6}{245}\sqrt{434}e^{17} + \frac{6}{245}\sqrt{70}e^{34}$	$(\frac{6}{35}, -\frac{12}{35}, \frac{3}{7}, -\frac{3}{35}, -\frac{6}{35}, 0, \frac{6}{35}, \frac{12}{35})$ $+ \frac{18}{35}e^3 \otimes e_4 + \frac{6}{49}\sqrt{42}e^1 \otimes e_2$	{23, 24}
84321:2	$0, 0, 0, 0, \frac{48}{1307}\sqrt{395}e^{12}, \frac{48}{1307}\sqrt{31}e^{15}, \frac{144}{1307}\sqrt{5}e^{16},$ $\frac{48}{1307}\sqrt{167}e^{17} + \frac{96}{1307}\sqrt{95}e^{34}$	$(-\frac{288}{1307}, \frac{912}{1307}, -\frac{120}{1307}, -\frac{120}{1307}, \frac{624}{1307}, \frac{336}{1307}, \frac{48}{1307}, -\frac{240}{1307})$ $- \frac{48}{1307}\sqrt{1047}e^2 \otimes e_8$	{123467, 1267, 1358, 23456, 256, 378}
84321:2	$0, 0, 0, 0, \frac{48}{1307}\sqrt{395}e^{12}, \frac{48}{1307}\sqrt{31}e^{15}, \frac{144}{1307}\sqrt{5}e^{16},$ $\frac{48}{1307}\sqrt{167}e^{17} + \frac{96}{1307}\sqrt{95}e^{34}$	$(-\frac{288}{1307}, \frac{912}{1307}, -\frac{120}{1307}, -\frac{120}{1307}, \frac{624}{1307}, \frac{336}{1307}, \frac{48}{1307}, -\frac{240}{1307})$ $+ \frac{48}{1307}\sqrt{1047}e^2 \otimes e_8$	{123467, 1267, 1358, 23456, 256, 378}
84321:2	$0, 0, 0, 0, \frac{2}{415}\sqrt{7062}e^{12}, \frac{6}{415}\sqrt{1070}e^{15}, \frac{12}{415}\sqrt{214}e^{16},$ $\frac{4}{415}\sqrt{321}e^{17} + \frac{6}{415}\sqrt{1070}e^{34}$	$(\frac{14}{415}, \frac{72}{415}, \frac{77}{83}, -\frac{257}{415}, \frac{86}{415}, \frac{20}{83}, \frac{114}{415}, \frac{128}{415})$ $+ \frac{642}{415}e^3 \otimes e_4$	{12368, 12468, 235678, 245678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
84321:2	$0, 0, 0, 0, \frac{48}{1883}\sqrt{395}e^{12}, \frac{48}{1883}\sqrt{31}e^{15}, \frac{144}{1883}\sqrt{5}e^{16},$ $\frac{48}{1883}\sqrt{167}e^{17} + \frac{96}{1883}\sqrt{95}e^{34}$	$(-\frac{288}{1883}, \frac{912}{1883}, \frac{456}{1883}, -\frac{696}{1883}, \frac{624}{1883}, \frac{48}{269}, \frac{48}{1883}, -\frac{240}{1883})$ $+ \frac{1152}{1883}e^3 \otimes e_4 - \frac{48}{1883}\sqrt{1047}e^2 \otimes e_8$	{1358, 1458, 378, 478}
84321:2	$0, 0, 0, 0, \frac{48}{1883}\sqrt{395}e^{12}, \frac{48}{1883}\sqrt{31}e^{15}, \frac{144}{1883}\sqrt{5}e^{16},$ $\frac{48}{1883}\sqrt{167}e^{17} + \frac{96}{1883}\sqrt{95}e^{34}$	$(-\frac{288}{1883}, \frac{912}{1883}, \frac{456}{1883}, -\frac{696}{1883}, \frac{624}{1883}, \frac{48}{269}, \frac{48}{1883}, -\frac{240}{1883})$ $+ \frac{1152}{1883}e^3 \otimes e_4 + \frac{48}{1883}\sqrt{1047}e^2 \otimes e_8$	{1358, 1458, 378, 478}
84321:2	$0, 0, 0, 0, \frac{3}{91}\sqrt{238}e^{12}, \frac{6}{91}\sqrt{70}e^{15}, \frac{18}{91}\sqrt{14}e^{16},$ $\frac{3}{91}\sqrt{434}e^{17} + \frac{3}{91}\sqrt{70}e^{34}$	$(\frac{3}{13}, -\frac{6}{13}, \frac{3}{13}, \frac{3}{13}, -\frac{3}{13}, 0, \frac{3}{13}, \frac{6}{13})$ $+ \frac{15}{91}\sqrt{42}e^1 \otimes e_2$	{13468, 168, 23}
84321:3	$0, 0, 0, 0, \frac{43}{2661}\sqrt{410}e^{12}, \frac{86}{2661}e^{15}, \frac{301}{2661}\sqrt{2}e^{16},$ $\frac{86}{2661}\sqrt{179}e^{17} + \frac{43}{2661}\sqrt{714}e^{23}$	$(-\frac{86}{887}, \frac{817}{2661}, -\frac{344}{887}, \frac{1634}{2661}, \frac{559}{2661}, \frac{301}{2661}, \frac{43}{2661}, -\frac{215}{2661})$ $+ \frac{43}{2661}\sqrt{2054}e^2 \otimes e_3 + \frac{86}{2661}\sqrt{641}e^4 \otimes e_8$	{13568, 3678}
84321:3	$0, 0, 0, 0, \frac{2}{47}\sqrt{123}e^{12}, \frac{18}{47}e^{15}, \frac{1}{47}\sqrt{210}e^{16}, \frac{5}{47}\sqrt{6}e^{17} + \frac{12}{47}e^{23}$	$(-\frac{3}{94}, \frac{12}{47}, -\frac{6}{47}, -\frac{39}{94}, \frac{21}{94}, \frac{9}{47}, \frac{15}{6}, \frac{6}{47})$ $+ \frac{1}{47}\sqrt{570}e^2 \otimes e_3 + \frac{4}{47}\sqrt{57}e^1 \otimes e_4$	{1357, 34}
84321:3	$0, 0, 0, 0, \frac{8}{259}\sqrt{286}e^{12}, \frac{4}{259}\sqrt{1518}e^{15}, \frac{4}{259}\sqrt{1518}e^{16},$ $\frac{8}{259}\sqrt{286}e^{17} + \frac{24}{259}\sqrt{11}e^{23}$	$(\frac{17}{259}, \frac{16}{259}, \frac{68}{259}, -\frac{159}{259}, \frac{33}{259}, \frac{50}{259}, \frac{67}{259}, \frac{12}{37})$ $+ \frac{44}{259}\sqrt{38}e^1 \otimes e_4$	{12368, 1357, 2345678, 34}
84321:3	$0, 0, 0, 0, \frac{4}{61}\sqrt{37}e^{12}, \frac{1}{61}\sqrt{814}e^{15}, \frac{1}{61}\sqrt{814}e^{16},$ $\frac{4}{61}\sqrt{37}e^{17} + \frac{2}{61}\sqrt{851}e^{23}$	$(\frac{19}{122}, -\frac{13}{122}, \frac{38}{61}, -\frac{36}{61}, \frac{3}{61}, \frac{25}{122}, \frac{22}{61}, \frac{63}{122})$ $+ \frac{1}{61}\sqrt{7178}e^3 \otimes e_4$	{124578, 146, 248, 4567}
84321:3	$0, 0, 0, 0, \frac{6}{1217}\sqrt{14835}e^{12}, \frac{72}{1217}\sqrt{23}e^{15}, \frac{6}{1217}\sqrt{10281}e^{16},$ $\frac{12}{1217}\sqrt{6486}e^{17} + \frac{24}{1217}\sqrt{1518}e^{23}$	$(-\frac{30}{1217}, \frac{95}{1217}, -\frac{120}{1217}, \frac{1}{1217}, \frac{65}{1217}, \frac{35}{1217}, \frac{5}{1217}, -\frac{25}{1217})$ $+ \frac{6}{1217}\sqrt{67965}e^4 \otimes e_8$	{12568, 147, 2678, 45}
84321:3	$0, 0, 0, 0, \frac{6}{293}\sqrt{2327}e^{12}, \frac{6}{293}\sqrt{537}e^{15}, \frac{1}{293}\sqrt{14678}e^{16},$ $\frac{1}{293}\sqrt{18258}e^{17} + \frac{4}{293}\sqrt{537}e^{23}$	$(-\frac{85}{586}, \frac{188}{293}, \frac{170}{293}, \frac{111}{586}, \frac{291}{586}, \frac{103}{293}, \frac{121}{586}, \frac{18}{293})$ $+ \frac{5}{293}\sqrt{6802}e^2 \otimes e_3$	{1345, 135, 347, 37}
84321:3	$0, 0, 0, 0, \frac{12}{1217}\sqrt{6486}e^{12}, \frac{6}{1217}\sqrt{10281}e^{15}, \frac{72}{1217}\sqrt{23}e^{16},$ $\frac{6}{1217}\sqrt{14835}e^{17} + \frac{24}{1217}\sqrt{1518}e^{23}$	$(-\frac{30}{1217}, \frac{489}{1217}, -\frac{120}{1217}, -\frac{753}{1217}, \frac{459}{1217}, \frac{429}{1217}, \frac{399}{1217}, \frac{369}{1217})$ $+ \frac{6}{1217}\sqrt{67965}e^2 \otimes e_4$	{12678, 145, 2568, 47}
84321:4	$0, 0, 0, 0, \frac{10}{399}\sqrt{354}e^{12}, \frac{10}{133}\sqrt{21}e^{15}, \frac{10}{399}\sqrt{123}e^{16},$ $\frac{20}{399}\sqrt{3}e^{17} + \frac{40}{133}e^{25}$	$(\frac{5}{133}, \frac{15}{133}, -\frac{45}{133}, -\frac{5}{19}, \frac{20}{133}, \frac{25}{133}, \frac{30}{133}, \frac{5}{19})$ $+ \frac{10}{399}\sqrt{474}e^2 \otimes e_4 + \frac{20}{399}\sqrt{141}e^1 \otimes e_3$	{1268, 34}
84321:4	$0, 0, 0, 0, \frac{4}{175}\sqrt{273}e^{12}, \frac{2}{175}\sqrt{2093}e^{15}, \frac{2}{175}\sqrt{1365}e^{16},$ $\frac{6}{175}\sqrt{546}e^{17} + \frac{8}{175}\sqrt{273}e^{25}$	$(-\frac{1}{175}, -\frac{3}{175}, \frac{1}{175}, \frac{33}{175}, -\frac{4}{175}, -\frac{1}{35}, -\frac{6}{175}, -\frac{1}{25})$ $+ \frac{2}{175}\sqrt{12922}e^3 \otimes e_8$	{1347, 137, 24678, 2678}
84321:4	$0, 0, 0, 0, \frac{2}{1305}\sqrt{96126}e^{12}, \frac{2}{1305}\sqrt{168437}e^{15}, \frac{38}{1305}\sqrt{433}e^{16},$ $\frac{2}{1305}\sqrt{120374}e^{17} + \frac{4}{1305}\sqrt{15155}e^{25}$	$(\frac{11}{261}, \frac{11}{87}, -\frac{811}{1305}, \frac{247}{1305}, \frac{44}{261}, \frac{55}{261}, \frac{22}{87}, \frac{77}{261})$ $+ \frac{46}{1305}\sqrt{866}e^1 \otimes e_3$	{1457, 157, 2345678, 235678}
84321:4	$0, 0, 0, 0, \frac{2}{305}\sqrt{3318}e^{12}, \frac{6}{305}\sqrt{395}e^{15}, \frac{6}{305}\sqrt{474}e^{16},$ $\frac{4}{305}\sqrt{474}e^{17} + \frac{6}{305}\sqrt{395}e^{25}$	$(\frac{13}{305}, \frac{39}{305}, 1, -\frac{169}{305}, \frac{52}{305}, \frac{13}{61}, \frac{78}{305}, \frac{91}{305})$ $+ \frac{474}{305}e^3 \otimes e_4$	{12368, 12468, 3, 4}
84321:4	$0, 0, 0, 0, \frac{180}{1537}\sqrt{13}e^{12}, \frac{36}{1537}\sqrt{131}e^{15}, \frac{72}{1537}\sqrt{13}e^{16},$ $\frac{108}{1537}e^{17} + \frac{36}{1537}\sqrt{553}e^{25}$	$(\frac{18}{1537}, \frac{54}{1537}, \frac{774}{1537}, -\frac{594}{1537}, \frac{72}{1537}, \frac{90}{1537}, \frac{108}{1537}, \frac{126}{1537})$ $+ \frac{36}{1537}\sqrt{763}e^2 \otimes e_4 + \frac{396}{1537}\sqrt{5}e^3 \otimes e_8$	{128, 346}
84321:4	$0, 0, 0, 0, \frac{2}{1209}\sqrt{261290}e^{12}, \frac{2}{1209}\sqrt{3451}e^{15}, \frac{2}{1209}\sqrt{53737}e^{16},$ $\frac{136}{1209}\sqrt{29}e^{17} + \frac{8}{1209}\sqrt{15283}e^{25}$	$(\frac{61}{1209}, \frac{61}{403}, -\frac{803}{1209}, \frac{203}{1209}, \frac{244}{1209}, \frac{305}{1209}, \frac{122}{403}, \frac{427}{1209})$ $+ \frac{2}{1209}\sqrt{495958}e^2 \otimes e_3$	{1345678, 135678, 2457, 257}
84321:4	$0, 0, 0, 0, \frac{136}{1453}\sqrt{6}e^{12}, \frac{170}{1453}\sqrt{7}e^{15}, \frac{34}{1453}\sqrt{285}e^{16},$ $\frac{102}{1453}\sqrt{42}e^{17} + \frac{136}{1453}\sqrt{3}e^{25}$	$(\frac{17}{1453}, \frac{51}{1453}, \frac{697}{1453}, -\frac{561}{1453}, \frac{68}{1453}, \frac{85}{1453}, \frac{102}{1453}, \frac{119}{1453})$ $+ \frac{204}{1453}\sqrt{21}e^1 \otimes e_4 + \frac{34}{1453}\sqrt{502}e^3 \otimes e_8$	{1268, 34}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
84321:7	$0, 0, 0, 0, \frac{11}{235}\sqrt{78}e^{12}, \frac{33}{235}\sqrt{10}e^{15}, \frac{99}{235}e^{16},$ $\frac{11}{235}\sqrt{6}e^{17} + \frac{33}{235}\sqrt{5}e^{25} + \frac{33}{235}\sqrt{10}e^{34}$	$(\frac{11}{235}, \frac{33}{235}, \frac{44}{47}, -\frac{143}{235}, \frac{44}{235}, \frac{11}{47}, \frac{66}{235}, \frac{77}{235})$ $+ \frac{363}{235}e^3 \otimes e_4$	{12368, 12468}
8431:1	$0, 0, 0, 0, \frac{3}{154}\sqrt{1001}e^{12}, \frac{9}{77}\sqrt{39}e^{15}, \frac{6}{77}\sqrt{13}e^{25}, \frac{3}{154}\sqrt{1001}e^{16}$	$(\frac{23}{154}, -\frac{1}{308}, -\frac{47}{77}, \frac{15}{77}, \frac{45}{308}, \frac{13}{44}, \frac{1}{7}, \frac{137}{308})$ $+ \frac{3}{77}\sqrt{806}e^1 \otimes e_3$	{1246, 126, 1458, 158, 2345678, 235678, 347, 37}
8431:1	$0, 0, 0, 0, \frac{38}{1777}\sqrt{211}e^{12}, \frac{342}{1777}\sqrt{5}e^{15}, \frac{76}{1777}\sqrt{15}e^{25}, \frac{114}{1777}\sqrt{58}e^{16}$	$(\frac{17}{1777}, \frac{74}{1777}, \frac{847}{1777}, -\frac{705}{1777}, \frac{91}{1777}, \frac{108}{1777}, \frac{165}{1777}, \frac{125}{1777})$ $+ \frac{38}{1777}\sqrt{622}e^3 \otimes e_8 + \frac{38}{1777}\sqrt{930}e^1 \otimes e_4$	{1236, 158, 245678, 347}
8431:1	$0, 0, 0, 0, \frac{36}{1921}\sqrt{515}e^{12}, \frac{18}{1921}\sqrt{805}e^{15}, \frac{18}{1921}\sqrt{3470}e^{25},$ $\frac{18}{1921}\sqrt{335}e^{16}$	$(\frac{27}{1921}, \frac{63}{1921}, \frac{963}{1921}, -\frac{747}{1921}, \frac{90}{1921}, \frac{117}{1921}, \frac{9}{113}, \frac{144}{1921})$ $+ \frac{18}{1921}\sqrt{4790}e^2 \otimes e_4 + \frac{72}{1921}\sqrt{235}e^3 \otimes e_7$	{127, 145678, 2358, 346}
8431:1	$0, 0, 0, 0, \frac{1}{142}\sqrt{2343}e^{12}, \frac{1}{71}\sqrt{330}e^{15}, \frac{1}{71}\sqrt{330}e^{25}, \frac{1}{142}\sqrt{2343}e^{16}$	$(-\frac{11}{142}, \frac{49}{284}, -\frac{22}{71}, \frac{9}{71}, \frac{27}{284}, \frac{5}{71}, \frac{19}{284}, -\frac{17}{284})$ $+ \frac{1}{71}\sqrt{1023}e^1 \otimes e_3 + \frac{1}{71}\sqrt{1023}e^2 \otimes e_8$	{12467, 1267, 14578, 1578}
8431:1	$0, 0, 0, 0, \frac{2}{1473}\sqrt{122434}e^{12}, \frac{2}{1473}\sqrt{64541}e^{15}, \frac{4}{1473}\sqrt{12742}e^{25},$ $\frac{14}{1473}\sqrt{831}e^{16}$	$(\frac{61}{1473}, \frac{53}{491}, -\frac{493}{1473}, -\frac{395}{1473}, \frac{220}{1473}, \frac{281}{1473}, \frac{379}{1473}, \frac{114}{491})$ $+ \frac{2}{1473}\sqrt{163430}e^2 \otimes e_4 + \frac{8}{1473}\sqrt{11911}e^1 \otimes e_3$	{1267, 14578, 23568, 34}
8431:1	$0, 0, 0, 0, \frac{1}{9}\sqrt{14}e^{12}, \frac{1}{9}\sqrt{14}e^{15}, \frac{1}{9}\sqrt{14}e^{25}, \frac{1}{9}\sqrt{14}e^{16}$	$(\frac{1}{18}, \frac{1}{9}, 1, -\frac{5}{9}, \frac{1}{6}, \frac{2}{9}, \frac{5}{18}, \frac{5}{18})$ $+ \frac{14}{9}e^3 \otimes e_4$	{12367, 12467, 13578, 14578, 23568, 24568, 3, 4}
8431:1	$0, 0, 0, 0, \frac{1}{146}\sqrt{2715}e^{12}, \frac{1}{146}\sqrt{2534}e^{15}, \frac{1}{146}\sqrt{18462}e^{25}, \frac{1}{146}\sqrt{2715}e^{16}$	$(\frac{11}{73}, -\frac{57}{292}, 1, \frac{15}{73}, -\frac{13}{292}, \frac{31}{292}, -\frac{35}{146}, \frac{75}{292})$ $+ \frac{1}{73}\sqrt{10498}e^3 \otimes e_7$	{12478, 1278, 14567, 1567, 2345, 235, 3468, 368}
8431:1	$0, 0, 0, 0, \frac{6}{133}\sqrt{15}e^{12}, \frac{6}{133}\sqrt{15}e^{15}, \frac{6}{133}\sqrt{130}e^{25}, \frac{6}{133}\sqrt{130}e^{16}$	$(-\frac{3}{133}, -\frac{6}{133}, \frac{75}{133}, \frac{75}{133}, -\frac{9}{133}, -\frac{12}{133}, -\frac{15}{133}, -\frac{15}{133})$ $+ \frac{6}{133}\sqrt{290}e^3 \otimes e_7 + \frac{6}{133}\sqrt{290}e^4 \otimes e_8$	{123456, 138, 2678, 457}
8431:1	$0, 0, 0, 0, \frac{2}{1433}\sqrt{112309}e^{12}, \frac{2}{1433}\sqrt{18354}e^{15}, \frac{2}{1433}\sqrt{140277}e^{25},$ $\frac{10}{1433}\sqrt{2622}e^{16}$	$(-\frac{170}{1433}, \frac{343}{1433}, \frac{707}{1433}, -\frac{531}{1433}, \frac{173}{1433}, \frac{3}{1433}, \frac{516}{1433}, -\frac{167}{1433})$ $+ \frac{22}{1433}\sqrt{2622}e^2 \otimes e_4 + \frac{32}{1433}\sqrt{874}e^3 \otimes e_8$	{1278, 134567, 235, 468}
8431:1	$0, 0, 0, 0, \frac{2}{37}\sqrt{221}e^{12}, \frac{2}{37}\sqrt{34}e^{15}, \frac{2}{37}\sqrt{221}e^{25}, \frac{2}{37}\sqrt{34}e^{16}$	$(-\frac{2}{37}, \frac{11}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{9}{37}, \frac{7}{37}, \frac{20}{37}, \frac{5}{37})$ $+ \frac{2}{37}\sqrt{510}e^2 \otimes e_3$	{1247, 127, 1345678, 135678, 2458, 258, 346, 36}
8431:1	$0, 0, 0, 0, \frac{6}{425}\sqrt{1001}e^{12}, \frac{24}{425}\sqrt{13}e^{15}, \frac{36}{425}\sqrt{39}e^{25}, \frac{6}{425}\sqrt{1001}e^{16}$	$(-\frac{78}{425}, \frac{123}{425}, \frac{177}{425}, -\frac{57}{425}, \frac{9}{85}, -\frac{33}{425}, \frac{168}{425}, -\frac{111}{425})$ $+ \frac{12}{425}\sqrt{806}e^2 \otimes e_8 + \frac{234}{425}e^3 \otimes e_4$	{235, 245, 368, 468}
8431:1	$0, 0, 0, 0, \frac{3}{154}\sqrt{1001}e^{12}, \frac{6}{77}\sqrt{13}e^{15}, \frac{9}{77}\sqrt{39}e^{25}, \frac{3}{154}\sqrt{1001}e^{16}$	$(-\frac{39}{154}, \frac{123}{308}, \frac{15}{77}, \frac{15}{77}, \frac{45}{308}, -\frac{3}{28}, \frac{6}{11}, -\frac{111}{308})$ $+ \frac{3}{77}\sqrt{806}e^2 \otimes e_8$	{2345, 235, 25, 3468, 368, 68}
8431:1	$0, 0, 0, 0, \frac{1}{146}\sqrt{2534}e^{12}, \frac{1}{146}\sqrt{2715}e^{15}, \frac{1}{146}\sqrt{2715}e^{25}, \frac{1}{146}\sqrt{18462}e^{16}$	$(-\frac{43}{292}, \frac{59}{292}, 1, \frac{15}{73}, \frac{4}{73}, -\frac{27}{292}, \frac{75}{292}, -\frac{35}{146})$ $+ \frac{1}{73}\sqrt{10498}e^3 \otimes e_8$	{12458, 1258, 1346, 136, 2347, 237, 45678, 5678}
8431:1	$0, 0, 0, 0, \frac{6}{25}\sqrt{2}e^{12}, \frac{6}{25}e^{15}, \frac{9}{25}\sqrt{2}e^{25}, \frac{6}{25}\sqrt{2}e^{16}$	$(-\frac{3}{25}, \frac{3}{25}, \frac{12}{25}, \frac{3}{25}, 0, -\frac{3}{25}, \frac{3}{25}, -\frac{6}{25})$ $+ \frac{3}{25}\sqrt{26}e^2 \otimes e_8 + \frac{9}{25}\sqrt{2}e^3 \otimes e_7$	{2345, 235, 3468, 368}
8431:1	$0, 0, 0, 0, \frac{4}{349}\sqrt{1410}e^{12}, \frac{4}{349}\sqrt{1645}e^{15}, \frac{4}{349}\sqrt{705}e^{25}, \frac{4}{349}\sqrt{1410}e^{16}$	$(\frac{50}{349}, -\frac{39}{349}, \frac{160}{349}, -\frac{138}{349}, \frac{11}{349}, \frac{61}{349}, -\frac{28}{349}, \frac{111}{349})$ $+ \frac{2}{349}\sqrt{10246}e^3 \otimes e_7 + \frac{6}{349}\sqrt{1974}e^1 \otimes e_4$	{1267, 1578, 234568, 34}
8431:2	$0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{8}\sqrt{6}e^{15}, \frac{3}{4}e^{25} + \frac{1}{8}\sqrt{6}e^{34}, \frac{1}{4}\sqrt{6}e^{16}$	$(-\frac{1}{4}, \frac{3}{8}, \frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{2}, -\frac{3}{8})$ $+ \frac{1}{8}\sqrt{78}e^2 \otimes e_8$	{235, 368}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8431:2	$0, 0, 0, 0, \frac{2}{1529}\sqrt{54115}e^{12}, \frac{24}{1529}\sqrt{685}e^{15},$ $\frac{2}{1529}\sqrt{91105}e^{25} + \frac{2}{1529}\sqrt{379490}e^{34}, \frac{4}{1529}\sqrt{91790}e^{16}$	$(-\frac{302}{1529}, \frac{511}{1529}, \frac{975}{1529}, -\frac{255}{1529}, \frac{19}{139}, -\frac{93}{1529}, \frac{720}{1529}, -\frac{395}{1529})$ $+\frac{10}{1529}\sqrt{33702}e^3 \otimes e_8$	{124578, 1367, 234, 568}
8431:2	$0, 0, 0, 0, \frac{2}{123}\sqrt{665}e^{12}, \frac{4}{123}\sqrt{190}e^{15}, \frac{4}{123}\sqrt{95}e^{25} + \frac{4}{123}\sqrt{190}e^{34},$ $\frac{2}{123}\sqrt{665}e^{16}$	$(\frac{2}{41}, \frac{17}{123}, \frac{115}{123}, -\frac{25}{41}, \frac{23}{123}, \frac{29}{123}, \frac{40}{123}, \frac{35}{123})$ $+\frac{190}{123}e^3 \otimes e_4$	{12367, 12467, 13578, 14578}
8431:2	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{6}e^{15}, \frac{6}{11}e^{25} + \frac{1}{11}\sqrt{6}e^{34},$ $\frac{2}{11}\sqrt{6}e^{16}$	$(-\frac{2}{11}, \frac{3}{11}, \frac{5}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, -\frac{3}{11})$ $+\frac{1}{11}\sqrt{78}e^2 \otimes e_8 + \frac{6}{11}e^3 \otimes e_4$	{235, 245, 368, 468}
8431:2	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{6}e^{15}, \frac{6}{11}e^{25} + \frac{1}{11}\sqrt{6}e^{34},$ $\frac{2}{11}\sqrt{6}e^{16}$	$(-\frac{2}{11}, \frac{3}{11}, \frac{5}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, -\frac{3}{11})$ $+\frac{1}{11}\sqrt{78}e^2 \otimes e_8 - \frac{6}{11}e^3 \otimes e_4$	{235, 245, 368, 468}
8431:3	$0, 0, 0, 0, \frac{84}{383}\sqrt{5}e^{12}, \frac{28}{383}\sqrt{55}e^{15}, \frac{28}{383}\sqrt{30}e^{13} + \frac{28}{383}\sqrt{15}e^{25},$ $\frac{84}{383}\sqrt{5}e^{16}$	$(\frac{70}{383}, -\frac{63}{383}, -\frac{126}{383}, \frac{140}{383}, \frac{7}{383}, \frac{77}{383}, -\frac{56}{383}, \frac{147}{383})$ $+\frac{126}{383}\sqrt{6}e^1 \otimes e_3 + \frac{14}{383}\sqrt{166}e^4 \otimes e_7$	{234568, 34}
8431:3	$0, 0, 0, 0, \frac{2}{283}\sqrt{5681}e^{12}, \frac{3}{283}\sqrt{598}e^{15}, \frac{1}{283}\sqrt{52026}e^{13} + \frac{3}{283}\sqrt{598}e^{25},$ $\frac{26}{283}\sqrt{69}e^{16}$	$(-\frac{67}{283}, \frac{98}{283}, \frac{196}{283}, \frac{51}{283}, \frac{31}{283}, -\frac{36}{283}, \frac{129}{283}, -\frac{103}{283})$ $+\frac{4}{283}\sqrt{8671}e^3 \otimes e_8$	{1478, 178, 2468, 268}
8431:3	$0, 0, 0, 0, \frac{1}{73}\sqrt{3599}e^{12}, \frac{1}{73}\sqrt{61}e^{15}, \frac{1}{73}\sqrt{1830}e^{13} + \frac{1}{73}\sqrt{3599}e^{25},$ $\frac{1}{73}\sqrt{61}e^{16}$	$(-\frac{1}{146}, \frac{14}{73}, \frac{28}{73}, -\frac{47}{73}, \frac{27}{146}, \frac{13}{73}, \frac{55}{146}, \frac{25}{146})$ $+\frac{2}{73}\sqrt{1830}e^2 \otimes e_4$	{1237, 1345678, 2358, 346}
8431:3	$0, 0, 0, 0, \frac{3}{283}\sqrt{598}e^{12}, \frac{2}{283}\sqrt{5681}e^{15}, \frac{1}{283}\sqrt{52026}e^{13} + \frac{26}{283}\sqrt{69}e^{25},$ $\frac{3}{283}\sqrt{598}e^{16}$	$(\frac{20}{283}, -\frac{18}{283}, -\frac{36}{283}, 1, \frac{2}{283}, \frac{22}{283}, -\frac{16}{283}, \frac{42}{283})$ $+\frac{4}{283}\sqrt{8671}e^4 \otimes e_7$	{1234568, 134, 2367, 3578}
8431:3	$0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{1}{17}\sqrt{42}e^{15}, \frac{7}{17}\sqrt{6}e^{13} + \frac{1}{17}\sqrt{42}e^{25},$ $\frac{1}{17}\sqrt{42}e^{16}$	$(-\frac{1}{17}, \frac{5}{17}, \frac{10}{17}, -\frac{11}{17}, \frac{4}{17}, \frac{3}{17}, \frac{9}{17}, \frac{2}{17})$ $+\frac{14}{17}\sqrt{3}e^3 \otimes e_4$	{1245678, 147, 246, 458}
8431:3	$0, 0, 0, 0, \frac{1}{307}\sqrt{31326}e^{12}, \frac{10}{307}\sqrt{454}e^{15}, \frac{1}{307}\sqrt{14074}e^{13} + \frac{4}{307}\sqrt{681}e^{25},$ $\frac{1}{307}\sqrt{31326}e^{16}$	$(\frac{38}{307}, \frac{14}{307}, \frac{28}{307}, -\frac{189}{307}, \frac{52}{307}, \frac{90}{307}, \frac{66}{307}, \frac{128}{307})$ $+\frac{4}{307}\sqrt{7037}e^1 \otimes e_4$	{1236, 1358, 2345678, 347}
8431:3	$0, 0, 0, 0, \frac{240}{707}e^{12}, \frac{12}{707}\sqrt{214}e^{15}, \frac{12}{707}\sqrt{186}e^{13} + \frac{24}{707}\sqrt{69}e^{25},$ $\frac{240}{707}e^{16}$	$(-\frac{48}{707}, \frac{90}{707}, \frac{180}{707}, -\frac{192}{707}, \frac{6}{101}, -\frac{6}{707}, \frac{132}{707}, -\frac{54}{707})$ $+\frac{12}{707}\sqrt{682}e^2 \otimes e_8 + \frac{36}{707}\sqrt{62}e^1 \otimes e_4$	{12367, 13578}
8431:3	$0, 0, 0, 0, \frac{22}{1119}\sqrt{87}e^{12}, \frac{22}{1119}\sqrt{273}e^{15}, \frac{11}{1119}\sqrt{1398}e^{13} + \frac{88}{373}e^{25},$ $\frac{22}{373}\sqrt{46}e^{16}$	$(-\frac{22}{373}, \frac{55}{373}, \frac{110}{373}, -\frac{143}{373}, \frac{33}{373}, \frac{11}{373}, \frac{88}{373}, -\frac{11}{373})$ $+\frac{22}{1119}\sqrt{654}e^3 \otimes e_8 + \frac{22}{1119}\sqrt{834}e^1 \otimes e_4$	{1236, 347}
8431:3	$0, 0, 0, 0, \frac{42}{299}\sqrt{19}e^{12}, \frac{3}{299}\sqrt{4902}e^{15}, \frac{3}{299}\sqrt{3534}e^{13} + \frac{3}{299}\sqrt{190}e^{25},$ $\frac{42}{299}\sqrt{19}e^{16}$	$(\frac{67}{299}, -\frac{4}{23}, -\frac{8}{23}, \frac{51}{299}, \frac{15}{299}, \frac{82}{299}, -\frac{37}{299}, \frac{149}{299})$ $+\frac{12}{299}\sqrt{589}e^1 \otimes e_3$	{234568, 23568, 3, 34}
8431:3	$0, 0, 0, 0, \frac{50}{287}\sqrt{7}e^{12}, \frac{15}{287}\sqrt{14}e^{15}, \frac{5}{287}\sqrt{42}e^{13} + \frac{15}{41}\sqrt{2}e^{25},$ $\frac{10}{287}\sqrt{105}e^{16}$	$(-\frac{5}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{15}{41}, \frac{5}{41}, 0, \frac{15}{41}, -\frac{5}{41})$ $+\frac{20}{287}\sqrt{91}e^3 \otimes e_8 + \frac{60}{287}\sqrt{14}e^2 \otimes e_4$	{1278, 468}
8431:3	$0, 0, 0, 0, \frac{42}{299}\sqrt{19}e^{12}, \frac{3}{299}\sqrt{190}e^{15}, \frac{3}{299}\sqrt{3534}e^{13} + \frac{3}{299}\sqrt{4902}e^{25},$ $\frac{42}{299}\sqrt{19}e^{16}$	$(-\frac{57}{299}, \frac{72}{299}, \frac{144}{299}, \frac{51}{299}, \frac{15}{299}, -\frac{42}{299}, \frac{87}{299}, -\frac{99}{299})$ $+\frac{12}{299}\sqrt{589}e^2 \otimes e_8$	{123467, 12367, 134578, 13578}
8431:3	$0, 0, 0, 0, \frac{31}{3373}\sqrt{1306}e^{12}, \frac{31}{3373}\sqrt{2054}e^{15},$ $\frac{31}{3373}\sqrt{1706}e^{13} + \frac{31}{3373}\sqrt{138}e^{25}, \frac{31}{3373}\sqrt{2382}e^{16}$	$(\frac{279}{3373}, -\frac{341}{3373}, -\frac{682}{3373}, \frac{1457}{3373}, -\frac{62}{3373}, \frac{217}{3373}, -\frac{403}{3373}, \frac{496}{3373})$ $+\frac{62}{3373}\sqrt{538}e^4 \otimes e_8 + \frac{62}{3373}\sqrt{958}e^1 \otimes e_3$	{23568, 34}
8431:3	$0, 0, 0, 0, \frac{15}{644}\sqrt{247}e^{12}, \frac{15}{644}\sqrt{74}e^{15}, \frac{15}{644}\sqrt{114}e^{13} + \frac{15}{322}\sqrt{123}e^{25},$ $\frac{15}{644}\sqrt{247}e^{16}$	$(-\frac{75}{644}, \frac{135}{1288}, \frac{135}{644}, \frac{285}{644}, -\frac{15}{1288}, -\frac{165}{1288}, \frac{15}{161}, -\frac{45}{184})$ $+\frac{15}{644}\sqrt{718}e^2 \otimes e_8 + \frac{45}{644}\sqrt{46}e^4 \otimes e_7$	{2345, 3468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8431:3	$0, 0, 0, 0, \frac{1}{291}\sqrt{4970}e^{12}, \frac{2}{291}\sqrt{3905}e^{15}, \frac{1}{291}\sqrt{20590}e^{13} + \frac{2}{291}\sqrt{3905}e^{25},$ $\frac{1}{291}\sqrt{77390}e^{16}$	$(-\frac{12}{97}, \frac{44}{291}, \frac{88}{291}, 1, \frac{8}{291}, -\frac{28}{291}, \frac{52}{291}, -\frac{64}{291})$ $+ \frac{4}{291}\sqrt{10295}e^4 \otimes e_8$	{1258, 146, 247, 5678}
8431:3	$0, 0, 0, 0, \frac{6}{257}\sqrt{195}e^{12}, \frac{6}{257}\sqrt{195}e^{15}, \frac{3}{257}\sqrt{2262}e^{13} + \frac{6}{257}\sqrt{182}e^{25},$ $\frac{6}{257}\sqrt{182}e^{16}$	$(-\frac{30}{257}, \frac{27}{257}, \frac{54}{257}, \frac{141}{257}, -\frac{3}{257}, -\frac{33}{257}, \frac{24}{257}, -\frac{63}{257})$ $+ \frac{6}{257}\sqrt{754}e^3 \otimes e_8 + \frac{6}{257}\sqrt{754}e^4 \otimes e_7$	{123456, 357}
8431:3	$0, 0, 0, 0, \frac{50}{2849}\sqrt{526}e^{12}, \frac{25}{2849}\sqrt{1366}e^{15},$ $\frac{25}{2849}\sqrt{1622}e^{13} + \frac{25}{2849}\sqrt{1030}e^{25}, \frac{300}{2849}\sqrt{7}e^{16}$	$(\frac{325}{2849}, -\frac{150}{2849}, -\frac{300}{2849}, -\frac{775}{2849}, \frac{25}{2849}, \frac{500}{2849}, \frac{25}{2849}, \frac{75}{2849})$ $+ \frac{100}{2849}\sqrt{137}e^2 \otimes e_4 + \frac{100}{2849}\sqrt{179}e^1 \otimes e_3$	{23568, 34}
8431:3	$0, 0, 0, 0, \frac{5}{143}\sqrt{210}e^{12}, \frac{5}{143}\sqrt{6}e^{15}, \frac{5}{143}\sqrt{138}e^{13} + \frac{5}{143}\sqrt{282}e^{25},$ $\frac{5}{143}\sqrt{210}e^{16}$	$(-\frac{25}{143}, \frac{35}{143}, \frac{70}{143}, -\frac{5}{143}, \frac{10}{143}, -\frac{15}{143}, \frac{45}{143}, -\frac{40}{143})$ $+ \frac{10}{143}\sqrt{39}e^3 \otimes e_4 + \frac{120}{143}e^2 \otimes e_8$	{235, 368}
8431:4	$0, 0, 0, 0, \frac{24}{1529}\sqrt{685}e^{12}, \frac{2}{1529}\sqrt{54115}e^{15}, \frac{4}{1529}\sqrt{91790}e^{25},$ $\frac{2}{1529}\sqrt{91105}e^{16} + \frac{2}{1529}\sqrt{379490}e^{34}$	$(\frac{367}{1529}, -\frac{381}{1529}, \frac{975}{1529}, -\frac{255}{1529}, -\frac{14}{1529}, \frac{353}{1529}, -\frac{395}{1529}, \frac{720}{1529})$ $+ \frac{10}{1529}\sqrt{33702}e^3 \otimes e_7$	{127, 145678, 2358, 346}
8431:4	$0, 0, 0, 0, \frac{1}{49}\sqrt{462}e^{12}, \frac{2}{49}\sqrt{21}e^{15}, \frac{9}{49}\sqrt{7}e^{25},$ $\frac{1}{49}\sqrt{231}e^{16} + \frac{1}{49}\sqrt{462}e^{34}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, 0, \frac{3}{7}, -\frac{1}{7})$ $+ \frac{1}{49}\sqrt{1302}e^2 \otimes e_8 + \frac{3}{7}e^3 \otimes e_4$	{368, 468}
8431:4	$0, 0, 0, 0, \frac{2}{77}\sqrt{462}e^{12}, \frac{4}{77}\sqrt{21}e^{15}, \frac{18}{77}\sqrt{7}e^{25},$ $\frac{2}{77}\sqrt{231}e^{16} + \frac{2}{77}\sqrt{462}e^{34}$	$(-\frac{2}{11}, \frac{4}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, 0, \frac{6}{11}, -\frac{2}{11})$ $+ \frac{2}{77}\sqrt{1302}e^2 \otimes e_8$	{2345, 25, 368}
8431:4	$0, 0, 0, 0, \frac{4}{123}\sqrt{190}e^{12}, \frac{2}{123}\sqrt{665}e^{15}, \frac{2}{123}\sqrt{665}e^{25},$ $\frac{4}{123}\sqrt{95}e^{16} + \frac{4}{123}\sqrt{190}e^{34}$	$(\frac{3}{41}, \frac{13}{123}, \frac{115}{123}, -\frac{25}{41}, \frac{22}{123}, \frac{31}{123}, \frac{35}{123}, \frac{40}{123})$ $+ \frac{190}{123}e^3 \otimes e_4$	{13578, 14578, 23568, 24568}
8431:4	$0, 0, 0, 0, \frac{3}{707}\sqrt{1918}e^{12}, \frac{6}{707}\sqrt{203}e^{15}, \frac{3}{707}\sqrt{3570}e^{25},$ $\frac{3}{707}\sqrt{322}e^{16} + \frac{6}{707}\sqrt{798}e^{34}$	$(-\frac{3}{101}, \frac{6}{101}, \frac{18}{101}, -\frac{21}{101}, \frac{3}{101}, 0, \frac{9}{101}, -\frac{3}{101})$ $+ \frac{3}{101}\sqrt{78}e^3 \otimes e_7 + \frac{3}{707}\sqrt{4942}e^2 \otimes e_8$	{2345, 368}
8431:5	$0, 0, 0, 0, \frac{6}{107}\sqrt{130}e^{12}, \frac{12}{107}\sqrt{39}e^{15}, \frac{2}{107}\sqrt{39}e^{25},$ $\frac{6}{107}\sqrt{130}e^{16} + \frac{26}{107}\sqrt{3}e^{23}$	$(\frac{11}{107}, \frac{4}{107}, \frac{33}{107}, -\frac{67}{107}, \frac{15}{107}, \frac{26}{107}, \frac{19}{107}, \frac{37}{107})$ $+ \frac{6}{107}\sqrt{377}e^1 \otimes e_4$	{126, 158, 2345678, 347}
8431:5	$0, 0, 0, 0, \frac{1}{19}\sqrt{69}e^{12}, \frac{1}{38}\sqrt{230}e^{15}, \frac{1}{19}\sqrt{345}e^{25},$ $\frac{1}{19}\sqrt{69}e^{16} + \frac{3}{38}\sqrt{46}e^{23}$	$(\frac{2}{19}, -\frac{3}{19}, \frac{6}{19}, 1, -\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{3}{19})$ $+ \frac{1}{38}\sqrt{2806}e^4 \otimes e_7$	{12378, 13567, 245, 468}
8431:5	$0, 0, 0, 0, \frac{9}{245}\sqrt{133}e^{12}, \frac{9}{490}\sqrt{230}e^{15}, \frac{9}{245}\sqrt{217}e^{25},$ $\frac{9}{245}\sqrt{5}e^{16} + \frac{27}{490}\sqrt{46}e^{23}$	$(-\frac{18}{245}, \frac{27}{245}, -\frac{54}{245}, \frac{117}{245}, \frac{9}{245}, -\frac{9}{245}, \frac{36}{245}, -\frac{27}{245})$ $+ \frac{144}{245}e^2 \otimes e_3 + \frac{9}{490}\sqrt{758}e^4 \otimes e_7$	{13567, 245}
8431:5	$0, 0, 0, 0, \frac{15}{749}\sqrt{527}e^{12}, \frac{15}{749}\sqrt{183}e^{15}, \frac{15}{749}\sqrt{307}e^{25},$ $\frac{15}{749}\sqrt{206}e^{16} + \frac{255}{749}e^{23}$	$(-\frac{30}{749}, \frac{135}{749}, -\frac{90}{749}, -\frac{255}{749}, \frac{15}{749}, \frac{75}{749}, \frac{240}{749}, \frac{45}{749})$ $+ \frac{15}{749}\sqrt{642}e^2 \otimes e_3 + \frac{15}{749}\sqrt{683}e^1 \otimes e_4$	{1267, 34}
8431:5	$0, 0, 0, 0, \frac{2}{175}\sqrt{2093}e^{12}, \frac{2}{175}\sqrt{1365}e^{15}, \frac{4}{175}\sqrt{273}e^{25},$ $\frac{8}{175}\sqrt{273}e^{16} + \frac{6}{175}\sqrt{546}e^{23}$	$(-\frac{1}{25}, \frac{2}{25}, -\frac{3}{25}, 1, \frac{1}{25}, 0, \frac{3}{25}, -\frac{1}{25})$ $+ \frac{2}{175}\sqrt{12922}e^4 \otimes e_8$	{12578, 1467, 234, 3568}
8431:5	$0, 0, 0, 0, \frac{2}{1257}\sqrt{210990}e^{12}, \frac{2}{1257}\sqrt{23263}e^{15}, \frac{4}{1257}\sqrt{49231}e^{25},$ $\frac{22}{1257}\sqrt{541}e^{16} + \frac{8}{1257}\sqrt{7033}e^{23}$	$(\frac{3}{419}, \frac{295}{1257}, \frac{9}{419}, -\frac{787}{1257}, \frac{304}{1257}, \frac{313}{1257}, \frac{599}{1257}, \frac{322}{1257})$ $+ \frac{2}{1257}\sqrt{552902}e^2 \otimes e_4$	{1237, 1345678, 258, 46}
8431:5	$0, 0, 0, 0, \frac{8}{297}\sqrt{181}e^{12}, \frac{2}{297}\sqrt{5249}e^{15}, \frac{2}{297}\sqrt{5611}e^{25},$ $\frac{8}{297}\sqrt{181}e^{16} + \frac{4}{297}\sqrt{5430}e^{23}$	$(\frac{59}{297}, -\frac{17}{297}, \frac{59}{99}, -\frac{185}{297}, \frac{14}{99}, \frac{101}{297}, \frac{25}{297}, \frac{160}{297})$ $+ \frac{2}{297}\sqrt{43621}e^3 \otimes e_4$	{12357, 13678, 248, 456}
8431:5	$0, 0, 0, 0, \frac{8}{1209}\sqrt{15283}e^{12}, \frac{2}{1209}\sqrt{53737}e^{15}, \frac{2}{1209}\sqrt{261290}e^{25},$ $\frac{2}{1209}\sqrt{3451}e^{16} + \frac{136}{1209}\sqrt{29}e^{23}$	$(-\frac{59}{403}, \frac{35}{93}, -\frac{177}{403}, \frac{203}{1209}, \frac{278}{1209}, \frac{101}{1209}, \frac{733}{1209}, -\frac{76}{1209})$ $+ \frac{2}{1209}\sqrt{495958}e^2 \otimes e_3$	{1247, 127, 346, 36}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8431:5	$0, 0, 0, 0, \frac{5}{287}\sqrt{742}e^{12}, \frac{15}{287}\sqrt{14}e^{15}, \frac{10}{287}\sqrt{231}e^{25},$ $\frac{10}{287}\sqrt{105}e^{16} + \frac{5}{287}\sqrt{42}e^{23}$	$(-\frac{5}{41}, \frac{10}{41}, -\frac{15}{41}, \frac{20}{41}, \frac{5}{41}, 0, \frac{15}{41}, -\frac{5}{41})$ $+\frac{5}{287}\sqrt{1414}e^4 \otimes e_8 + \frac{5}{41}\sqrt{42}e^2 \otimes e_3$	{134567, 245}
8431:6	$0, 0, 0, 0, \frac{4}{19}\sqrt{3}e^{12}, \frac{1}{19}\sqrt{6}e^{15}, \frac{3}{19}\sqrt{6}e^{13} + \frac{3}{19}\sqrt{6}e^{25},$ $\frac{2}{19}\sqrt{6}e^{16} + \frac{4}{19}\sqrt{3}e^{34}$	$(-\frac{1}{19}, \frac{2}{19}, \frac{4}{19}, -\frac{5}{19}, \frac{1}{19}, 0, \frac{3}{19}, -\frac{1}{19})$ $+\frac{4}{19}\sqrt{6}e^2 \otimes e_8$	{123467, 13578}
8431:6	$0, 0, 0, 0, \frac{376}{2653}\sqrt{3}e^{12}, \frac{94}{2653}\sqrt{139}e^{15},$ $\frac{611}{2653}\sqrt{6}e^{13} + \frac{188}{2653}\sqrt{101}e^{25}, \frac{94}{2653}\sqrt{157}e^{16} + \frac{94}{2653}\sqrt{410}e^{34}$	$(\frac{470}{2653}, -\frac{423}{2653}, -\frac{846}{2653}, \frac{1833}{2653}, \frac{47}{2653}, \frac{517}{2653}, -\frac{376}{2653}, \frac{141}{379})$ $+\frac{94}{2653}\sqrt{1086}e^4 \otimes e_7$	{127, 2458}
8431:6	$0, 0, 0, 0, \frac{36}{199}\sqrt{6}e^{12}, \frac{18}{199}\sqrt{21}e^{15}, \frac{9}{199}\sqrt{534}e^{13} + \frac{18}{199}\sqrt{21}e^{25},$ $\frac{36}{199}\sqrt{3}e^{16} + \frac{36}{199}\sqrt{6}e^{34}$	$(-\frac{18}{199}, \frac{63}{199}, \frac{126}{199}, -\frac{117}{199}, \frac{45}{199}, \frac{27}{199}, \frac{108}{199}, \frac{9}{199})$ $+\frac{18}{199}\sqrt{249}e^3 \otimes e_4$	{147, 246}
8431:7	$0, 0, 0, 0, \frac{29}{693}\sqrt{82}e^{12}, \frac{232}{693}\sqrt{2}e^{15}, \frac{29}{693}\sqrt{130}e^{25} + \frac{29}{693}\sqrt{66}e^{34},$ $\frac{29}{693}\sqrt{82}e^{16} + \frac{29}{693}\sqrt{582}e^{23}$	$(\frac{145}{693}, -\frac{58}{693}, \frac{145}{693}, -\frac{58}{693}, \frac{29}{693}, \frac{232}{693}, \frac{29}{693}, \frac{377}{693})$ $+\frac{58}{693}\sqrt{283}e^3 \otimes e_4$	{248, 456}
8431:7	$0, 0, 0, 0, \frac{1}{61}\sqrt{658}e^{12}, \frac{4}{61}\sqrt{42}e^{15}, \frac{1}{61}\sqrt{910}e^{25} + \frac{7}{61}\sqrt{38}e^{34},$ $\frac{1}{61}\sqrt{1778}e^{16} + \frac{1}{61}\sqrt{1302}e^{23}$	$(-\frac{7}{61}, \frac{14}{61}, \frac{21}{61}, \frac{42}{61}, \frac{7}{61}, 0, \frac{21}{61}, -\frac{7}{61})$ $+\frac{2}{61}\sqrt{1218}e^4 \otimes e_8$	{1467, 234}
8431:8	$0, 0, 0, 0, \frac{168}{629}\sqrt{5}e^{12}, \frac{168}{629}\sqrt{6}e^{15}, \frac{105}{629}\sqrt{6}e^{13} + \frac{42}{629}\sqrt{11}e^{25},$ $\frac{168}{629}\sqrt{5}e^{16} + \frac{42}{629}\sqrt{43}e^{23}$	$(\frac{42}{629}, \frac{63}{629}, \frac{126}{629}, -\frac{399}{629}, \frac{105}{629}, \frac{147}{629}, \frac{168}{629}, \frac{189}{629})$ $+\frac{42}{629}\sqrt{257}e^1 \otimes e_4$	{2345678, 347}
8431:8	$0, 0, 0, 0, \frac{43}{2441}\sqrt{1770}e^{12}, \frac{258}{2441}\sqrt{3}e^{15},$ $\frac{43}{2441}\sqrt{1126}e^{13} + \frac{86}{2441}\sqrt{413}e^{25}, \frac{43}{2441}\sqrt{246}e^{16} + \frac{172}{2441}\sqrt{59}e^{23}$	$(\frac{172}{2441}, \frac{258}{2441}, \frac{516}{2441}, -\frac{1591}{2441}, \frac{430}{2441}, \frac{602}{2441}, \frac{688}{2441}, \frac{774}{2441})$ $+\frac{1032}{2441}\sqrt{7}e^2 \otimes e_4$	{2356, 348}
8431:8	$0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{2}{7}\sqrt{3}e^{15}, \frac{1}{7}\sqrt{14}e^{13} + \frac{2}{7}e^{25},$ $\frac{1}{7}\sqrt{30}e^{16} + \frac{4}{7}\sqrt{2}e^{23}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{4}{7}\sqrt{5}e^4 \otimes e_8$	{234, 3568}
8431:8	$0, 0, 0, 0, \frac{46}{557}\sqrt{42}e^{12}, \frac{46}{557}\sqrt{3}e^{15}, \frac{23}{557}\sqrt{422}e^{13} + \frac{46}{557}\sqrt{55}e^{25},$ $\frac{46}{557}\sqrt{42}e^{16} + \frac{92}{557}\sqrt{26}e^{23}$	$(\frac{46}{557}, \frac{69}{557}, \frac{138}{557}, -\frac{391}{557}, \frac{115}{557}, \frac{161}{557}, \frac{184}{557}, \frac{207}{557})$ $+\frac{46}{557}\sqrt{237}e^3 \otimes e_4$	{1245678, 147}
8431:9	$0, 0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{3}{7}\sqrt{2}e^{15}, \frac{3}{7}\sqrt{2}e^{13} + \frac{1}{7}\sqrt{6}e^{25},$ $\frac{3}{7}\sqrt{2}e^{16} + \frac{2}{7}\sqrt{3}e^{24}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7})$ $+\frac{9}{7}e^1 \otimes e_3$	{234568, 34}
8431:9	$0, 0, 0, 0, \frac{10}{287}\sqrt{329}e^{12}, \frac{15}{287}\sqrt{14}e^{15}, \frac{5}{41}\sqrt{42}e^{13} + \frac{45}{287}\sqrt{14}e^{25},$ $\frac{10}{287}\sqrt{105}e^{16} + \frac{60}{287}\sqrt{14}e^{24}$	$(-\frac{5}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{15}{41}, \frac{5}{41}, 0, \frac{15}{41}, -\frac{5}{41})$ $+\frac{20}{287}\sqrt{217}e^3 \otimes e_8$	{1478, 268}
8431:9	$0, 0, 0, 0, \frac{10}{41}\sqrt{11}e^{12}, \frac{15}{287}\sqrt{14}e^{15}, \frac{5}{287}\sqrt{1414}e^{13} + \frac{5}{287}\sqrt{2338}e^{25},$ $\frac{10}{287}\sqrt{105}e^{16} + \frac{20}{287}\sqrt{91}e^{24}$	$(-\frac{5}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{15}{41}, \frac{5}{41}, 0, \frac{15}{41}, -\frac{5}{41})$ $+\frac{20}{287}\sqrt{217}e^2 \otimes e_4$	{134567, 235}
8431:18	$0, 0, 0, 0, \frac{4}{89}\sqrt{69}e^{12}, -\frac{2}{89}\sqrt{345}e^{15}, \frac{2}{89}\sqrt{345}e^{25},$ $\frac{4}{89}\sqrt{69}e^{16} + \frac{4}{89}\sqrt{69}e^{27}$	$(\frac{7}{89}, \frac{7}{89}, 1, -\frac{49}{89}, \frac{14}{89}, \frac{21}{89}, \frac{21}{89}, \frac{28}{89})$ $+\frac{138}{89}e^3 \otimes e_4$	{12367, 12467, 13578, 14578, 3, 4, 12367, 12467, 13578, 14578, 3, 4}
8431:18	$0, 0, 0, 0, \frac{4}{89}\sqrt{69}e^{12}, \frac{2}{89}\sqrt{345}e^{15}, \frac{2}{89}\sqrt{345}e^{25},$ $\frac{4}{89}\sqrt{69}e^{16} + \frac{4}{89}\sqrt{69}e^{27}$	$(\frac{7}{89}, \frac{7}{89}, 1, -\frac{49}{89}, \frac{14}{89}, \frac{21}{89}, \frac{21}{89}, \frac{28}{89})$ $+\frac{138}{89}e^3 \otimes e_4$	{12367, 12467, 13578, 14578, 3, 4, 12367, 12467, 13578, 14578, 3, 4}
8431:18	$0, 0, 0, 0, \frac{160}{349}e^{12}, -\frac{24}{349}\sqrt{22}e^{15}, \frac{24}{349}\sqrt{22}e^{25},$ $\frac{56}{349}\sqrt{2}e^{16} + \frac{56}{349}\sqrt{2}e^{27}$	$(\frac{24}{349}, \frac{24}{349}, -\frac{104}{349}, -\frac{104}{349}, \frac{48}{349}, \frac{72}{349}, \frac{72}{349}, \frac{96}{349})$ $+\frac{16}{349}\sqrt{151}e^1 \otimes e_3 + \frac{16}{349}\sqrt{151}e^2 \otimes e_4$	{1267, 14578, 34, 1267, 14578, 34}
8431:18	$0, 0, 0, 0, \frac{160}{349}e^{12}, \frac{24}{349}\sqrt{22}e^{15}, \frac{24}{349}\sqrt{22}e^{25},$ $\frac{56}{349}\sqrt{2}e^{16} + \frac{56}{349}\sqrt{2}e^{27}$	$(\frac{24}{349}, \frac{24}{349}, -\frac{104}{349}, -\frac{104}{349}, \frac{48}{349}, \frac{72}{349}, \frac{72}{349}, \frac{96}{349})$ $+\frac{16}{349}\sqrt{151}e^1 \otimes e_3 + \frac{16}{349}\sqrt{151}e^2 \otimes e_4$	{1267, 14578, 34, 1267, 14578, 34}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8431:18	$0, 0, 0, 0, \frac{4}{369}\sqrt{3458}e^{12}, -\frac{2}{369}\sqrt{17290}e^{15}, \frac{14}{369}\sqrt{57}e^{25},$ $\frac{4}{369}\sqrt{3458}e^{16} + \frac{2}{369}\sqrt{6251}e^{27}$	$(\frac{31}{369}, \frac{31}{369}, -\frac{235}{369}, \frac{67}{369}, \frac{62}{369}, \frac{31}{123}, \frac{31}{123}, \frac{124}{369})$ $+ \frac{2}{369}\sqrt{40166}e^1 \otimes e_3$	{1246, 126, 1458, 158, 2345678, 235678, 347, 37, 1246, 126, 1458, 158, 2345678, 235678, 347, 37}
8431:18	$0, 0, 0, 0, \frac{4}{369}\sqrt{3458}e^{12}, \frac{2}{369}\sqrt{17290}e^{15}, \frac{14}{369}\sqrt{57}e^{25},$ $\frac{4}{369}\sqrt{3458}e^{16} + \frac{2}{369}\sqrt{6251}e^{27}$	$(\frac{31}{369}, \frac{31}{369}, -\frac{235}{369}, \frac{67}{369}, \frac{62}{369}, \frac{31}{123}, \frac{31}{123}, \frac{124}{369})$ $+ \frac{2}{369}\sqrt{40166}e^1 \otimes e_3$	{1246, 126, 1458, 158, 2345678, 235678, 347, 37, 1246, 126, 1458, 158, 2345678, 235678, 347, 37}
8431:18	$0, 0, 0, 0, \frac{1}{91}\sqrt{2090}e^{12}, -\frac{3}{91}\sqrt{95}e^{15}, \frac{3}{91}\sqrt{95}e^{25},$ $\frac{1}{91}\sqrt{4845}e^{16} + \frac{1}{91}\sqrt{4845}e^{27}$	$(-\frac{1}{91}, -\frac{1}{91}, 1, \frac{18}{91}, -\frac{2}{91}, -\frac{3}{91}, -\frac{3}{91}, -\frac{4}{91})$ $+ \frac{1}{91}\sqrt{13870}e^3 \otimes e_8$	{12458, 1258, 1346, 136, 45678, 5678, 12458, 1258, 1346, 136, 45678, 5678}
8431:18	$0, 0, 0, 0, \frac{1}{91}\sqrt{2090}e^{12}, \frac{3}{91}\sqrt{95}e^{15}, \frac{3}{91}\sqrt{95}e^{25},$ $\frac{1}{91}\sqrt{4845}e^{16} + \frac{1}{91}\sqrt{4845}e^{27}$	$(-\frac{1}{91}, -\frac{1}{91}, 1, \frac{18}{91}, -\frac{2}{91}, -\frac{3}{91}, -\frac{3}{91}, -\frac{4}{91})$ $+ \frac{1}{91}\sqrt{13870}e^3 \otimes e_8$	{12458, 1258, 1346, 136, 45678, 5678, 12458, 1258, 1346, 136, 45678, 5678}
8431:20	$0, 0, 0, 0, \frac{6}{35}\sqrt{6}e^{12}, -\frac{6}{35}\sqrt{6}e^{15}, \frac{6}{35}\sqrt{6}e^{25},$ $\frac{6}{35}\sqrt{3}e^{16} + \frac{6}{35}\sqrt{3}e^{27} + \frac{6}{35}\sqrt{6}e^{34}$	$(\frac{3}{35}, \frac{3}{35}, \frac{33}{35}, -\frac{3}{5}, \frac{6}{35}, \frac{9}{35}, \frac{9}{35}, \frac{12}{35})$ $+ \frac{54}{35}e^3 \otimes e_4$	{13578, 14578, 13578, 14578}
8431:20	$0, 0, 0, 0, \frac{6}{35}\sqrt{6}e^{12}, \frac{6}{35}\sqrt{6}e^{15}, \frac{6}{35}\sqrt{6}e^{25},$ $\frac{6}{35}\sqrt{3}e^{16} + \frac{6}{35}\sqrt{3}e^{27} + \frac{6}{35}\sqrt{6}e^{34}$	$(\frac{3}{35}, \frac{3}{35}, \frac{33}{35}, -\frac{3}{5}, \frac{6}{35}, \frac{9}{35}, \frac{9}{35}, \frac{12}{35})$ $+ \frac{54}{35}e^3 \otimes e_4$	{13578, 14578, 13578, 14578}
8421:1	$0, 0, 0, 0, \frac{26}{223}\sqrt{47}e^{12}, \frac{1}{669}\sqrt{272506}e^{34}, \frac{1}{223}\sqrt{6110}e^{15}, \frac{1}{669}\sqrt{40326}e^{17}$	$(-\frac{37}{223}, \frac{145}{223}, -\frac{88}{669}, -\frac{88}{669}, \frac{108}{223}, -\frac{176}{669}, \frac{71}{223}, \frac{34}{223})$ $+ \frac{2}{669}\sqrt{163137}e^2 \otimes e_6$	{123478, 1278, 1356, 23457, 257, 368}
8421:1	$0, 0, 0, 0, \frac{22}{615}\sqrt{87}e^{12}, \frac{22}{615}\sqrt{205}e^{34}, \frac{22}{205}\sqrt{3}e^{15}, \frac{22}{615}\sqrt{87}e^{17}$	$(-\frac{8}{41}, \frac{87}{205}, \frac{143}{615}, -\frac{124}{615}, \frac{47}{205}, \frac{19}{7}, \frac{7}{205}, -\frac{33}{205})$ $+ \frac{22}{615}\sqrt{267}e^2 \otimes e_6 + \frac{22}{615}\sqrt{267}e^3 \otimes e_8$	{12347, 14568, 2578, 36}
8421:1	$0, 0, 0, 0, \frac{2}{53}\sqrt{123}e^{12}, \frac{4}{53}\sqrt{41}e^{34}, \frac{4}{53}\sqrt{41}e^{15}, \frac{2}{53}\sqrt{123}e^{17}$	$(\frac{2}{53}, \frac{9}{53}, \frac{49}{53}, -\frac{33}{53}, \frac{11}{53}, \frac{16}{53}, \frac{13}{53}, \frac{15}{53})$ $+ \frac{82}{53}e^3 \otimes e_4$	{12367, 12467, 13568, 14568, 235678, 245678, 36, 46}
8421:1	$0, 0, 0, 0, \frac{1}{14}\sqrt{105}e^{12}, \frac{1}{14}\sqrt{30}e^{34}, \frac{1}{14}\sqrt{30}e^{15}, \frac{1}{14}\sqrt{105}e^{17}$	$(-\frac{5}{14}, \frac{3}{7}, \frac{1}{7}, \frac{11}{28}, \frac{2}{7}, \frac{1}{28}, -\frac{9}{28})$ $+ \frac{1}{14}\sqrt{330}e^2 \otimes e_8$	{12347, 12367, 127, 13458, 13568, 158}
8421:1	$0, 0, 0, 0, \frac{1}{1041}\sqrt{19434}e^{12}, \frac{1}{1041}\sqrt{54826}e^{34}, \frac{5}{347}\sqrt{158}e^{15},$ $\frac{2}{347}\sqrt{1343}e^{17}$	$(\frac{7}{347}, \frac{4}{347}, \frac{154}{1041}, -\frac{212}{1041}, \frac{11}{347}, -\frac{58}{1041}, \frac{18}{347}, \frac{25}{347})$ $+ \frac{2}{1041}\sqrt{14457}e^3 \otimes e_8 + \frac{2}{347}\sqrt{2370}e^1 \otimes e_6$	{12347, 158, 245678, 36}
8421:1	$0, 0, 0, 0, \frac{156}{1949}\sqrt{47}e^{12}, \frac{2}{1949}\sqrt{272506}e^{34}, \frac{6}{1949}\sqrt{6110}e^{15},$ $\frac{2}{1949}\sqrt{40326}e^{17}$	$(-\frac{222}{1949}, \frac{870}{1949}, \frac{435}{1949}, -\frac{787}{1949}, \frac{648}{1949}, -\frac{352}{1949}, \frac{426}{1949}, \frac{204}{1949})$ $+ \frac{1222}{1949}e^3 \otimes e_4 + \frac{4}{1949}\sqrt{163137}e^2 \otimes e_6$	{1356, 1456, 368, 468}
8421:1	$0, 0, 0, 0, \frac{1}{669}\sqrt{40326}e^{12}, \frac{1}{223}\sqrt{6110}e^{34}, \frac{1}{669}\sqrt{272506}e^{15}, \frac{26}{223}\sqrt{47}e^{17}$	$(\frac{245}{669}, -\frac{122}{223}, \frac{30}{223}, \frac{30}{223}, -\frac{121}{669}, \frac{60}{223}, \frac{124}{669}, \frac{123}{223})$ $+ \frac{2}{669}\sqrt{163137}e^1 \otimes e_2$	{1347, 1367, 17, 2, 234, 236}
8421:1	$0, 0, 0, 0, \frac{2}{73}\sqrt{195}e^{12}, \frac{4}{73}\sqrt{65}e^{34}, \frac{4}{73}\sqrt{65}e^{15}, \frac{2}{73}\sqrt{195}e^{17}$	$(\frac{10}{73}, -\frac{3}{73}, \frac{5}{73}, -\frac{21}{73}, \frac{7}{73}, -\frac{16}{73}, \frac{17}{73}, \frac{27}{73})$ $+ \frac{26}{73}e^3 \otimes e_4 + \frac{8}{73}\sqrt{39}e^1 \otimes e_6$	{235678, 245678, 36, 46}
8421:1	$0, 0, 0, 0, \frac{1}{22}\sqrt{33}e^{12}, \frac{1}{22}\sqrt{30}e^{34}, \frac{1}{22}\sqrt{30}e^{15}, \frac{1}{22}\sqrt{33}e^{17}$	$(-\frac{1}{22}, \frac{9}{44}, -\frac{1}{11}, -\frac{1}{11}, \frac{7}{44}, -\frac{2}{11}, \frac{5}{44}, \frac{3}{44})$ $+ \frac{1}{22}\sqrt{42}e^2 \otimes e_8 + \frac{3}{11}\sqrt{2}e^1 \otimes e_6$	{12347, 127, 13458, 158}
8421:1	$0, 0, 0, 0, \frac{1}{30}\sqrt{195}e^{12}, \frac{1}{15}\sqrt{65}e^{34}, \frac{1}{15}\sqrt{65}e^{15}, \frac{1}{30}\sqrt{195}e^{17}$	$(\frac{1}{6}, -\frac{1}{20}, -\frac{2}{15}, -\frac{2}{15}, \frac{7}{60}, -\frac{4}{15}, \frac{17}{60}, \frac{9}{20})$ $+ \frac{2}{15}\sqrt{39}e^1 \otimes e_6$	{12347, 127, 13458, 158, 235678, 36}
8421:1	$0, 0, 0, 0, \frac{2}{1949}\sqrt{40326}e^{12}, \frac{6}{1949}\sqrt{6110}e^{34}, \frac{2}{1949}\sqrt{272506}e^{15},$ $\frac{156}{1949}\sqrt{47}e^{17}$	$(\frac{490}{1949}, -\frac{732}{1949}, \frac{791}{1949}, -\frac{431}{1949}, -\frac{242}{1949}, \frac{360}{1949}, \frac{248}{1949}, \frac{738}{1949})$ $+ \frac{1222}{1949}e^3 \otimes e_4 + \frac{4}{1949}\sqrt{163137}e^1 \otimes e_2$	{1367, 1467, 236, 246}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:1	$0, 0, 0, 0, \frac{2}{43}\sqrt{105}e^{12}, \frac{2}{43}\sqrt{30}e^{34}, \frac{2}{43}\sqrt{30}e^{15}, \frac{2}{43}\sqrt{105}e^{17}$	$(-\frac{10}{43}, \frac{21}{43}, \frac{19}{43}, -\frac{11}{43}, \frac{11}{43}, \frac{8}{43}, \frac{1}{43}, -\frac{9}{43})$ $+\frac{2}{43}\sqrt{330}e^2 \otimes e_8 + \frac{30}{43}e^3 \otimes e_4$	{12367, 12467, 13568, 14568}
8421:1	$0, 0, 0, 0, \frac{4}{203}\sqrt{134}e^{12}, \frac{2}{203}\sqrt{1273}e^{34}, \frac{2}{203}\sqrt{1273}e^{15}, \frac{1}{203}\sqrt{9782}e^{17}$	$(\frac{19}{203}, -\frac{48}{203}, \frac{76}{203}, -\frac{13}{203}, -\frac{1}{7}, \frac{9}{29}, -\frac{10}{203}, \frac{9}{203})$ $+\frac{1}{203}\sqrt{11926}e^1 \otimes e_2 + \frac{1}{203}\sqrt{11926}e^3 \otimes e_8$	{1347, 1367, 234, 236}
8421:1	$0, 0, 0, 0, \frac{1}{669}\sqrt{40326}e^{12}, \frac{1}{669}\sqrt{272506}e^{34}, \frac{1}{223}\sqrt{6110}e^{15}, \frac{26}{223}\sqrt{47}e^{17}$	$(-\frac{37}{223}, \frac{56}{223}, \frac{2}{3}, -\frac{88}{669}, \frac{19}{223}, \frac{358}{669}, -\frac{18}{223}, -\frac{55}{223})$ $+\frac{2}{669}\sqrt{163137}e^3 \otimes e_8$	{124568, 1258, 1347, 1367, 234, 236, 45678, 578}
8421:2	$0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{3}{115}\sqrt{1430}e^{13}, \frac{4}{115}\sqrt{143}e^{15}, \frac{2}{115}\sqrt{429}e^{17}$	$(-\frac{4}{115}, \frac{27}{115}, \frac{14}{23}, -\frac{73}{115}, \frac{1}{5}, \frac{66}{115}, \frac{19}{115}, \frac{3}{23})$ $+\frac{2}{115}\sqrt{6721}e^3 \otimes e_4$	{123578, 1245678, 13, 146, 2367, 247, 3568, 458}
8421:2	$0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{3}{115}\sqrt{1430}e^{13}, \frac{4}{115}\sqrt{143}e^{15}, \frac{2}{115}\sqrt{429}e^{17}$	$(-\frac{4}{115}, \frac{27}{115}, -\frac{24}{115}, 1, \frac{1}{5}, -\frac{28}{115}, \frac{19}{115}, \frac{3}{23})$ $+\frac{2}{115}\sqrt{6721}e^4 \otimes e_6$	{1234578, 125678, 134, 16, 2367, 247, 3568, 458}
8421:2	$0, 0, 0, 0, \frac{1}{27}\sqrt{91}e^{12}, \frac{2}{27}\sqrt{65}e^{13}, \frac{1}{27}\sqrt{65}e^{15}, \frac{1}{27}\sqrt{78}e^{17}$	$(-\frac{1}{6}, \frac{2}{9}, \frac{11}{54}, \frac{14}{27}, \frac{1}{18}, \frac{1}{27}, -\frac{1}{9}, -\frac{5}{18})$ $+\frac{13}{27}\sqrt{2}e^3 \otimes e_8 + \frac{1}{27}\sqrt{299}e^4 \otimes e_6$	{123457, 168, 2478, 356}
8421:2	$0, 0, 0, 0, \frac{4}{499}\sqrt{2586}e^{12}, \frac{1}{499}\sqrt{73270}e^{13}, \frac{2}{499}\sqrt{29739}e^{15}, \frac{2}{499}\sqrt{33187}e^{17}$	$(\frac{170}{499}, -\frac{261}{499}, \frac{10}{499}, \frac{95}{499}, -\frac{91}{499}, \frac{180}{499}, \frac{79}{499}, \frac{249}{499})$ $+\frac{2}{499}\sqrt{87062}e^1 \otimes e_2$	{1347, 137, 1467, 167, 2, 2346, 236, 24}
8421:2	$0, 0, 0, 0, \frac{40}{1399}\sqrt{246}e^{12}, \frac{40}{1399}\sqrt{173}e^{13}, \frac{20}{1399}\sqrt{866}e^{15}, \frac{20}{1399}\sqrt{538}e^{17}$	$(\frac{105}{1399}, \frac{110}{1399}, -\frac{295}{1399}, -\frac{290}{1399}, \frac{215}{1399}, -\frac{190}{1399}, \frac{320}{1399}, \frac{425}{1399})$ $+\frac{20}{1399}\sqrt{1594}e^1 \otimes e_3 + \frac{40}{1399}\sqrt{223}e^2 \otimes e_4$	{127, 1458, 23578, 34}
8421:2	$0, 0, 0, 0, \frac{16}{307}\sqrt{30}e^{12}, \frac{16}{307}\sqrt{19}e^{13}, \frac{16}{307}\sqrt{57}e^{15}, \frac{16}{307}\sqrt{106}e^{17}$	$(\frac{38}{307}, -\frac{90}{307}, \frac{16}{307}, \frac{152}{307}, -\frac{52}{307}, \frac{54}{307}, -\frac{14}{307}, \frac{24}{307})$ $+\frac{16}{307}\sqrt{155}e^1 \otimes e_2 + \frac{48}{307}\sqrt{13}e^4 \otimes e_8$	{1347, 1467, 2346, 24}
8421:2	$0, 0, 0, 0, \frac{3}{479}\sqrt{1970}e^{12}, \frac{1}{479}\sqrt{43734}e^{13}, \frac{2}{479}\sqrt{13002}e^{15}, \frac{3}{479}\sqrt{23246}e^{17}$	$(-\frac{74}{479}, \frac{110}{479}, \frac{132}{479}, 1, \frac{36}{479}, \frac{58}{479}, -\frac{38}{479}, -\frac{112}{479})$ $+\frac{48}{479}\sqrt{197}e^4 \otimes e_8$	{123568, 1258, 13467, 147, 234, 246, 3578, 5678}
8421:2	$0, 0, 0, 0, \frac{9}{124}\sqrt{71}e^{12}, \frac{1}{62}\sqrt{1349}e^{13}, \frac{3}{62}\sqrt{213}e^{15}, \frac{9}{124}\sqrt{71}e^{17}$	$(\frac{27}{124}, -\frac{39}{248}, -\frac{11}{31}, \frac{21}{124}, \frac{15}{248}, -\frac{17}{124}, \frac{69}{248}, \frac{123}{248})$ $+\frac{1}{124}\sqrt{14626}e^1 \otimes e_3$	{1247, 127, 1458, 158, 234578, 23578, 3, 34}
8421:2	$0, 0, 0, 0, \frac{12}{199}\sqrt{39}e^{12}, \frac{18}{199}\sqrt{3}e^{13}, \frac{6}{199}\sqrt{129}e^{15}, \frac{12}{199}\sqrt{39}e^{17}$	$(-\frac{18}{199}, \frac{51}{199}, \frac{33}{199}, -\frac{72}{199}, \frac{33}{199}, \frac{15}{199}, \frac{15}{199}, -\frac{3}{199})$ $+\frac{6}{199}\sqrt{237}e^2 \otimes e_8 + \frac{72}{199}\sqrt{2}e^1 \otimes e_4$	{12367, 127, 13568, 158}
8421:2	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{4}{19}\sqrt{6}e^{13}, \frac{1}{19}\sqrt{39}e^{15}, \frac{1}{19}\sqrt{51}e^{17}$	$(\frac{7}{38}, -\frac{11}{38}, \frac{4}{19}, -\frac{5}{19}, -\frac{2}{19}, \frac{15}{38}, \frac{3}{38}, \frac{5}{19})$ $+\frac{1}{19}\sqrt{129}e^3 \otimes e_4 + \frac{1}{19}\sqrt{174}e^1 \otimes e_2$	{137, 1467, 236, 24}
8421:2	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{4}{19}\sqrt{6}e^{13}, \frac{1}{19}\sqrt{39}e^{15}, \frac{1}{19}\sqrt{51}e^{17}$	$(\frac{7}{38}, -\frac{11}{38}, -\frac{1}{6}, \frac{28}{57}, -\frac{2}{19}, \frac{1}{57}, \frac{3}{38}, \frac{5}{19})$ $+\frac{1}{19}\sqrt{129}e^4 \otimes e_6 + \frac{1}{19}\sqrt{174}e^1 \otimes e_2$	{1347, 167, 236, 24}
8421:2	$0, 0, 0, 0, \frac{3}{479}\sqrt{23246}e^{12}, \frac{1}{479}\sqrt{43734}e^{13}, \frac{2}{479}\sqrt{13002}e^{15}, \frac{3}{479}\sqrt{1970}e^{17}$	$(-\frac{74}{479}, \frac{302}{479}, \frac{132}{479}, -\frac{289}{479}, \frac{228}{479}, \frac{58}{479}, \frac{154}{479}, \frac{80}{479})$ $+\frac{48}{479}\sqrt{197}e^2 \otimes e_4$	{123678, 1278, 13456, 145, 2357, 2567, 348, 468}
8421:2	$0, 0, 0, 0, \frac{8}{61}\sqrt{15}e^{12}, \frac{8}{61}\sqrt{10}e^{13}, \frac{16}{61}\sqrt{5}e^{15}, \frac{8}{61}\sqrt{15}e^{17}$	$(\frac{10}{61}, -\frac{6}{61}, -\frac{22}{61}, \frac{20}{61}, \frac{4}{61}, -\frac{12}{61}, \frac{14}{61}, \frac{24}{61})$ $+\frac{8}{61}\sqrt{11}e^4 \otimes e_6 + \frac{8}{61}\sqrt{41}e^1 \otimes e_3$	{1247, 1458, 234578, 34}
8421:2	$0, 0, 0, 0, \frac{20}{1399}\sqrt{538}e^{12}, \frac{40}{1399}\sqrt{173}e^{13}, \frac{20}{1399}\sqrt{866}e^{15}, \frac{40}{1399}\sqrt{246}e^{17}$	$(\frac{105}{1399}, -\frac{113}{1399}, -\frac{295}{1399}, \frac{602}{1399}, -\frac{8}{1399}, -\frac{190}{1399}, \frac{97}{1399}, \frac{202}{1399})$ $+\frac{20}{1399}\sqrt{1594}e^1 \otimes e_3 + \frac{40}{1399}\sqrt{223}e^4 \otimes e_8$	{1247, 158, 23578, 34}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:2	$0, 0, 0, 0, \frac{12}{41}\sqrt{7}e^{12}, \frac{14}{41}\sqrt{3}e^{13}, \frac{2}{41}\sqrt{105}e^{15}, \frac{12}{41}\sqrt{7}e^{17}$	$(-\frac{14}{41}, \frac{29}{41}, \frac{15}{41}, \frac{8}{41}, \frac{15}{41}, \frac{1}{41}, \frac{1}{41}, -\frac{13}{41})$ $+\frac{6}{41}\sqrt{77}e^2 \otimes e_8$	{123467, 12367, 1247, 127, 134568, 13568, 1458, 158}
8421:2	$0, 0, 0, 0, \frac{3}{272}\sqrt{1533}e^{12}, \frac{63}{272}\sqrt{2}e^{13}, \frac{3}{272}\sqrt{210}e^{15}, \frac{3}{272}\sqrt{1533}e^{17}$	$(-\frac{63}{272}, \frac{261}{544}, \frac{15}{272}, \frac{141}{272}, \frac{135}{544}, -\frac{3}{17}, \frac{9}{544}, -\frac{117}{544})$ $+\frac{3}{272}\sqrt{5502}e^2 \otimes e_8 + \frac{63}{272}\sqrt{10}e^4 \otimes e_6$	{12347, 1267, 13458, 1568}
8421:2	$0, 0, 0, 0, \frac{1}{27}\sqrt{78}e^{12}, \frac{2}{27}\sqrt{65}e^{13}, \frac{1}{27}\sqrt{65}e^{15}, \frac{1}{27}\sqrt{91}e^{17}$	$(-\frac{1}{6}, \frac{25}{54}, \frac{4}{27}, -\frac{1}{3}, \frac{8}{27}, -\frac{1}{54}, \frac{7}{54}, -\frac{1}{27})$ $+\frac{13}{27}\sqrt{2}e^2 \otimes e_6 + \frac{1}{27}\sqrt{299}e^3 \otimes e_4$	{123, 145678, 2458, 367}
8421:2	$0, 0, 0, 0, \frac{6}{79}\sqrt{7}e^{12}, \frac{3}{79}\sqrt{86}e^{13}, \frac{6}{79}\sqrt{17}e^{15}, \frac{6}{79}\sqrt{30}e^{17}$	$(-\frac{2}{79}, \frac{5}{79}, \frac{26}{79}, -\frac{29}{79}, \frac{3}{79}, \frac{24}{79}, \frac{1}{79}, -\frac{1}{79})$ $+\frac{6}{79}\sqrt{46}e^3 \otimes e_8 + \frac{6}{79}\sqrt{58}e^1 \otimes e_4$	{1237, 1568, 24578, 346}
8421:2	$0, 0, 0, 0, \frac{7}{65}\sqrt{30}e^{12}, \frac{7}{65}\sqrt{10}e^{13}, \frac{14}{65}\sqrt{10}e^{15}, \frac{7}{65}\sqrt{30}e^{17}$	$(\frac{2}{13}, -\frac{2}{65}, \frac{8}{65}, -\frac{3}{5}, \frac{8}{65}, \frac{18}{65}, \frac{18}{65}, \frac{28}{65})$ $+\frac{14}{65}\sqrt{26}e^1 \otimes e_4$	{1237, 1267, 1358, 1568, 2345678, 24578, 346, 4}
8421:2	$0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{16}{325}\sqrt{34}e^{13}, \frac{16}{325}\sqrt{87}e^{15}, \frac{16}{325}\sqrt{53}e^{17}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, \frac{42}{325}, \frac{57}{325}, -\frac{18}{65}, \frac{76}{325}, \frac{19}{65})$ $+\frac{112}{325}\sqrt{2}e^2 \otimes e_6 + \frac{16}{325}\sqrt{185}e^1 \otimes e_3$	{1247, 127, 234578, 23578}
8421:2	$0, 0, 0, 0, \frac{3}{272}\sqrt{1533}e^{12}, \frac{63}{272}\sqrt{2}e^{13}, \frac{3}{272}\sqrt{210}e^{15}, \frac{3}{272}\sqrt{1533}e^{17}$	$(-\frac{63}{272}, \frac{261}{544}, \frac{15}{34}, -\frac{69}{272}, \frac{135}{544}, \frac{57}{272}, \frac{9}{544}, -\frac{117}{544})$ $+\frac{3}{272}\sqrt{5502}e^2 \otimes e_8 + \frac{63}{272}\sqrt{10}e^3 \otimes e_4$	{1237, 12467, 1358, 14568}
8421:2	$0, 0, 0, 0, \frac{118}{397}e^{12}, \frac{1}{397}\sqrt{23010}e^{13}, \frac{4}{397}\sqrt{649}e^{15}, \frac{1}{397}\sqrt{28202}e^{17}$	$(\frac{55}{794}, -\frac{181}{794}, \frac{110}{397}, \frac{40}{397}, -\frac{63}{397}, \frac{275}{794}, -\frac{71}{794}, -\frac{8}{397})$ $+\frac{1}{397}\sqrt{39530}e^3 \otimes e_8 + \frac{1}{397}\sqrt{44722}e^1 \otimes e_2$	{1347, 137, 2346, 236}
8421:2	$0, 0, 0, 0, \frac{2}{475}\sqrt{33198}e^{12}, \frac{1}{475}\sqrt{141846}e^{13}, \frac{6}{475}\sqrt{503}e^{15}, \frac{2}{475}\sqrt{15593}e^{17}$	$(-\frac{106}{475}, \frac{343}{475}, -\frac{54}{475}, \frac{87}{475}, \frac{237}{475}, -\frac{32}{95}, \frac{131}{475}, \frac{1}{19})$ $+\frac{2}{475}\sqrt{97582}e^2 \otimes e_6$	{123, 1234, 145678, 15678, 2458, 258, 3467, 367}
8421:2	$0, 0, 0, 0, \frac{6}{79}\sqrt{30}e^{12}, \frac{3}{79}\sqrt{86}e^{13}, \frac{6}{79}\sqrt{17}e^{15}, \frac{6}{79}\sqrt{7}e^{17}$	$(-\frac{2}{79}, \frac{61}{237}, -\frac{14}{237}, -\frac{29}{79}, \frac{55}{237}, -\frac{20}{237}, \frac{49}{237}, \frac{43}{237})$ $+\frac{6}{79}\sqrt{46}e^2 \otimes e_6 + \frac{6}{79}\sqrt{58}e^1 \otimes e_4$	{1237, 1568, 24578, 346}
8421:2	$0, 0, 0, 0, \frac{3}{404}\sqrt{1295}e^{12}, \frac{3}{202}\sqrt{285}e^{13}, \frac{3}{202}\sqrt{305}e^{15}, \frac{3}{404}\sqrt{1295}e^{17}$	$(-\frac{15}{404}, \frac{123}{808}, -\frac{15}{101}, \frac{39}{404}, \frac{93}{808}, -\frac{75}{404}, \frac{63}{808}, \frac{33}{808})$ $+\frac{3}{101}\sqrt{95}e^2 \otimes e_8 + \frac{3}{404}\sqrt{2130}e^1 \otimes e_3$	{1247, 127, 1458, 158}
8421:2	$0, 0, 0, 0, \frac{2}{475}\sqrt{15593}e^{12}, \frac{1}{475}\sqrt{141846}e^{13}, \frac{6}{475}\sqrt{503}e^{15}, \frac{2}{475}\sqrt{33198}e^{17}$	$(-\frac{106}{475}, \frac{149}{475}, \frac{334}{475}, \frac{87}{475}, \frac{43}{475}, \frac{12}{25}, -\frac{63}{475}, -\frac{169}{475})$ $+\frac{2}{475}\sqrt{97582}e^3 \otimes e_8$	{123457, 12357, 1468, 168, 2478, 278, 3456, 356}
8421:3	$0, 0, 0, 0, \frac{2}{1889}\sqrt{119009}e^{12}, \frac{2}{1889}\sqrt{254386}e^{13}, \frac{2}{1889}\sqrt{23529}e^{25}, \frac{4}{1889}\sqrt{43307}e^{27}$	$(-\frac{190}{1889}, -\frac{21}{1889}, \frac{429}{1889}, \frac{921}{1889}, -\frac{211}{1889}, \frac{239}{1889}, -\frac{232}{1889}, -\frac{253}{1889})$ $+\frac{2}{1889}\sqrt{243474}e^4 \otimes e_6 + \frac{44}{1889}\sqrt{682}e^3 \otimes e_8$	{12568, 134, 2367, 4578}
8421:3	$0, 0, 0, 0, \frac{1}{71}\sqrt{62}e^{12}, \frac{4}{71}\sqrt{93}e^{13}, \frac{1}{71}\sqrt{186}e^{25}, \frac{1}{71}\sqrt{930}e^{27}$	$(\frac{13}{71}, -\frac{8}{71}, \frac{20}{71}, -\frac{18}{71}, \frac{5}{71}, \frac{33}{71}, -\frac{3}{71}, -\frac{11}{71})$ $+\frac{1}{71}\sqrt{2170}e^3 \otimes e_8 + \frac{3}{71}\sqrt{186}e^1 \otimes e_4$	{12568, 13, 23467, 4578}
8421:3	$0, 0, 0, 0, \frac{16}{1727}\sqrt{2967}e^{12}, \frac{8}{1727}\sqrt{2451}e^{13}, \frac{12}{1727}\sqrt{3526}e^{25}, \frac{4}{1727}\sqrt{15910}e^{27}$	$(\frac{392}{1727}, \frac{1}{1727}, -\frac{296}{1727}, -\frac{687}{1727}, \frac{393}{1727}, \frac{96}{1727}, \frac{394}{1727}, \frac{395}{1727})$ $+\frac{4}{1727}\sqrt{77142}e^2 \otimes e_4 + \frac{8}{1727}\sqrt{13330}e^1 \otimes e_3$	{127, 14578, 2358, 34}
8421:3	$0, 0, 0, 0, \frac{10}{203}\sqrt{7}e^{12}, \frac{12}{203}\sqrt{35}e^{13}, \frac{2}{203}\sqrt{1365}e^{25}, \frac{2}{203}\sqrt{2310}e^{27}$	$(-\frac{2}{29}, \frac{1}{29}, \frac{11}{29}, -\frac{9}{29}, -\frac{1}{29}, \frac{9}{29}, 0, \frac{1}{29})$ $+\frac{2}{203}\sqrt{3010}e^3 \otimes e_8 + \frac{30}{203}\sqrt{14}e^2 \otimes e_4$	{1237, 145678, 258, 346}
8421:3	$0, 0, 0, 0, \frac{40}{97}\sqrt{2}e^{12}, \frac{4}{97}\sqrt{390}e^{13}, \frac{8}{97}\sqrt{15}e^{25}, \frac{4}{97}\sqrt{390}e^{27}$	$(-\frac{1}{97}, -\frac{7}{97}, \frac{58}{97}, \frac{18}{97}, -\frac{8}{97}, \frac{57}{97}, -\frac{15}{97}, -\frac{22}{97})$ $+\frac{4}{97}\sqrt{790}e^3 \otimes e_8$	{124568, 12568, 13, 134, 23467, 2367, 4578, 578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:3	$0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{18}\sqrt{77}e^{13}, \frac{1}{18}\sqrt{55}e^{25}, \frac{1}{18}\sqrt{286}e^{27}$	$(\frac{7}{36}, -\frac{5}{36}, \frac{1}{9}, 1, \frac{1}{18}, \frac{11}{36}, -\frac{1}{12}, -\frac{2}{9})$ $+\frac{1}{18}\sqrt{627}e^4 \otimes e_8$	{12358, 12568, 134, 146, 23467, 247, 35678, 578}
8421:3	$0, 0, 0, 0, \frac{2}{27}\sqrt{6}e^{12}, \frac{2}{27}\sqrt{23}e^{13}, \frac{10}{27}e^{25}, \frac{2}{27}\sqrt{34}e^{27}$	$(-\frac{7}{54}, \frac{5}{54}, -\frac{2}{27}, \frac{4}{9}, -\frac{1}{27}, -\frac{11}{54}, \frac{1}{18}, \frac{4}{27})$ $+\frac{2}{27}\sqrt{33}e^4 \otimes e_8 + \frac{4}{27}\sqrt{15}e^2 \otimes e_6$	{12347, 15678, 258, 346}
8421:3	$0, 0, 0, 0, \frac{1}{253}\sqrt{10146}e^{12}, \frac{1}{253}\sqrt{7298}e^{13}, \frac{2}{253}\sqrt{2670}e^{25}, \frac{1}{253}\sqrt{7298}e^{27}$	$(\frac{1}{23}, \frac{2}{23}, -\frac{78}{253}, \frac{36}{253}, \frac{3}{23}, -\frac{67}{253}, \frac{5}{23}, \frac{7}{23})$ $+\frac{12}{253}\sqrt{178}e^2 \otimes e_6 + \frac{1}{253}\sqrt{12994}e^1 \otimes e_3$	{145678, 15678, 346, 36}
8421:3	$0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{18}\sqrt{286}e^{13}, \frac{1}{18}\sqrt{55}e^{25}, \frac{1}{18}\sqrt{77}e^{27}$	$(-\frac{5}{72}, \frac{1}{8}, -\frac{11}{72}, 1, \frac{1}{18}, -\frac{2}{9}, \frac{13}{72}, \frac{11}{36})$ $+\frac{1}{18}\sqrt{627}e^4 \otimes e_6$	{123458, 12568, 134, 16, 2367, 247, 35678, 4578}
8421:3	$0, 0, 0, 0, \frac{2}{105}\sqrt{435}e^{12}, \frac{2}{105}\sqrt{870}e^{13}, \frac{2}{105}\sqrt{1015}e^{25}, \frac{2}{105}\sqrt{870}e^{27}$	$(-\frac{8}{35}, \frac{5}{21}, -\frac{3}{35}, \frac{1}{5}, \frac{1}{105}, -\frac{11}{35}, \frac{26}{105}, \frac{17}{35})$ $+\frac{4}{105}\sqrt{609}e^2 \otimes e_6$	{12347, 1237, 145678, 15678, 2458, 258, 346, 36}
8421:3	$0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{18}\sqrt{286}e^{13}, \frac{1}{18}\sqrt{55}e^{25}, \frac{1}{18}\sqrt{77}e^{27}$	$(-\frac{5}{72}, \frac{1}{8}, \frac{23}{36}, \frac{7}{12}, \frac{1}{18}, \frac{41}{72}, \frac{13}{72}, \frac{11}{36})$ $+\frac{1}{18}\sqrt{627}e^3 \otimes e_4$	{12358, 124568, 13, 146, 2367, 247, 35678, 4578}
8421:3	$0, 0, 0, 0, \frac{2}{909}\sqrt{17313}e^{12}, \frac{7}{909}\sqrt{1990}e^{13}, \frac{20}{909}\sqrt{199}e^{25}, \frac{2}{909}\sqrt{14129}e^{27}$	$(\frac{10}{909}, \frac{28}{303}, -\frac{125}{909}, -\frac{21}{101}, \frac{94}{909}, -\frac{115}{909}, \frac{178}{909}, \frac{262}{909})$ $+\frac{1}{909}\sqrt{122982}e^1 \otimes e_4 + \frac{8}{909}\sqrt{2985}e^2 \otimes e_6$	{1237, 15678, 2458, 346}
8421:3	$0, 0, 0, 0, \frac{6}{377}\sqrt{822}e^{12}, \frac{1}{377}\sqrt{822}e^{13}, \frac{1}{377}\sqrt{9042}e^{25}, \frac{2}{377}\sqrt{7261}e^{27}$	$(\frac{161}{377}, -\frac{74}{377}, -\frac{113}{377}, \frac{213}{377}, \frac{3}{377}, \frac{48}{377}, \frac{29}{377}, -\frac{61}{377})$ $+\frac{1}{377}\sqrt{89598}e^4 \otimes e_8 + \frac{4}{377}\sqrt{5617}e^1 \otimes e_3$	{1247, 1578, 2358, 34}
8421:3	$0, 0, 0, 0, \frac{18}{373}\sqrt{13}e^{12}, \frac{36}{373}\sqrt{30}e^{13}, \frac{72}{373}e^{25}, \frac{18}{373}\sqrt{73}e^{27}$	$(\frac{99}{373}, -\frac{54}{373}, -\frac{72}{373}, \frac{189}{373}, \frac{45}{373}, \frac{27}{373}, -\frac{9}{373}, -\frac{63}{373})$ $+\frac{18}{373}\sqrt{141}e^4 \otimes e_6 + \frac{36}{373}\sqrt{46}e^1 \otimes e_8$	{12347, 1267, 23568, 2458}
8421:3	$0, 0, 0, 0, \frac{4}{303}\sqrt{2262}e^{12}, \frac{4}{303}\sqrt{174}e^{13}, \frac{4}{303}\sqrt{2929}e^{25}, \frac{20}{303}\sqrt{87}e^{27}$	$(-\frac{4}{101}, \frac{49}{303}, \frac{22}{101}, -\frac{61}{101}, \frac{37}{303}, \frac{18}{101}, \frac{86}{303}, \frac{45}{101})$ $+\frac{12}{101}\sqrt{87}e^2 \otimes e_4$	{12367, 127, 1345678, 14578, 2358, 2568, 34, 46}
8421:3	$0, 0, 0, 0, \frac{1}{203}\sqrt{10266}e^{12}, \frac{2}{203}\sqrt{5133}e^{13}, \frac{2}{203}\sqrt{1239}e^{25}, \frac{2}{203}\sqrt{5133}e^{27}$	$(\frac{4}{7}, -\frac{59}{203}, -\frac{16}{203}, \frac{6}{29}, \frac{57}{203}, \frac{100}{203}, -\frac{2}{203}, -\frac{61}{203})$ $+\frac{1}{203}\sqrt{56994}e^1 \otimes e_8$	{12347, 1237, 12467, 1267, 234568, 23568, 2458, 258}
8421:3	$0, 0, 0, 0, \frac{1}{185}\sqrt{31602}e^{12}, \frac{1}{185}\sqrt{5038}e^{13}, \frac{2}{185}\sqrt{1374}e^{25}, \frac{1}{185}\sqrt{5038}e^{27}$	$(\frac{127}{185}, -\frac{34}{185}, -\frac{102}{185}, \frac{36}{185}, \frac{93}{185}, \frac{5}{185}, \frac{59}{185}, \frac{5}{37})$ $+\frac{1}{185}\sqrt{68242}e^1 \otimes e_3$	{12478, 1278, 1457, 157, 2345, 235, 348, 38}
8421:3	$0, 0, 0, 0, \frac{1}{49}\sqrt{42}e^{12}, \frac{2}{49}\sqrt{21}e^{13}, \frac{2}{49}\sqrt{15}e^{25}, \frac{2}{49}\sqrt{21}e^{27}$	$(\frac{4}{49}, -\frac{1}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{3}{49}, -\frac{4}{49}, \frac{2}{49}, \frac{1}{49})$ $+\frac{12}{49}e^2 \otimes e_6 + \frac{1}{49}\sqrt{114}e^1 \otimes e_8$	{12347, 1237, 2458, 258}
8421:3	$0, 0, 0, 0, \frac{6}{377}\sqrt{822}e^{12}, \frac{2}{377}\sqrt{7261}e^{13}, \frac{1}{377}\sqrt{9042}e^{25}, \frac{1}{377}\sqrt{822}e^{27}$	$(\frac{213}{754}, -\frac{3}{58}, -\frac{335}{754}, \frac{213}{377}, \frac{3}{13}, -\frac{61}{377}, \frac{135}{754}, \frac{48}{377})$ $+\frac{1}{377}\sqrt{89598}e^4 \otimes e_6 + \frac{4}{377}\sqrt{5617}e^1 \otimes e_3$	{12678, 1567, 2356, 368}
8421:3	$0, 0, 0, 0, \frac{18}{373}\sqrt{13}e^{12}, \frac{36}{373}\sqrt{30}e^{13}, \frac{72}{373}e^{25}, \frac{18}{373}\sqrt{73}e^{27}$	$(\frac{99}{373}, -\frac{54}{373}, \frac{69}{373}, -\frac{93}{373}, \frac{45}{373}, \frac{168}{373}, -\frac{9}{373}, -\frac{63}{373})$ $+\frac{18}{373}\sqrt{141}e^3 \otimes e_4 + \frac{36}{373}\sqrt{46}e^1 \otimes e_8$	{1237, 12467, 23568, 2458}
8421:3	$0, 0, 0, 0, \frac{2}{117}\sqrt{1905}e^{12}, \frac{1}{117}\sqrt{7366}e^{13}, \frac{4}{117}\sqrt{127}e^{25}, \frac{2}{117}\sqrt{127}e^{27}$	$(\frac{58}{117}, -\frac{4}{39}, -\frac{5}{117}, -\frac{23}{39}, \frac{46}{117}, \frac{53}{117}, \frac{34}{117}, \frac{22}{117})$ $+\frac{1}{117}\sqrt{23622}e^1 \otimes e_4$	{12378, 12678, 1357, 1567, 23456, 245, 3468, 48}
8421:3	$0, 0, 0, 0, \frac{30}{913}\sqrt{95}e^{12}, \frac{30}{913}\sqrt{51}e^{13}, \frac{30}{913}\sqrt{89}e^{25}, \frac{15}{913}\sqrt{482}e^{27}$	$(\frac{204}{913}, -\frac{75}{913}, \frac{15}{913}, -\frac{300}{913}, \frac{129}{913}, \frac{219}{913}, \frac{54}{913}, -\frac{21}{913})$ $+\frac{15}{913}\sqrt{758}e^1 \otimes e_8 + \frac{15}{913}\sqrt{834}e^2 \otimes e_4$	{1237, 1267, 23568, 258}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:3	$0, 0, 0, 0, \frac{2}{27}\sqrt{6}e^{12}, \frac{2}{27}\sqrt{34}e^{13}, \frac{10}{27}e^{25}, \frac{2}{27}\sqrt{23}e^{27}$	$(-\frac{25}{108}, \frac{7}{36}, \frac{7}{54}, -\frac{1}{6}, -\frac{1}{27}, -\frac{11}{108}, \frac{17}{108}, \frac{19}{54})$ $+\frac{2}{27}\sqrt{33}e^3 \otimes e_4 + \frac{4}{27}\sqrt{15}e^2 \otimes e_6$	{1237, 145678, 2458, 36}
8421:4	$0, 0, 0, 0, \frac{3}{34}\sqrt{2}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{3}{34}\sqrt{10}e^{15},$ $\frac{9}{17}e^{17} + \frac{3}{17}\sqrt{19}e^{34}$	$(\frac{7}{136}, \frac{3}{17}, -\frac{53}{136}, \frac{49}{68}, \frac{31}{136}, -\frac{23}{68}, \frac{19}{68}, \frac{45}{136})$ $+\frac{3}{34}\sqrt{222}e^4 \otimes e_6$	{1234, 126, 23568, 2458}
8421:4	$0, 0, 0, 0, \frac{1}{23}\sqrt{114}e^{12}, \frac{1}{23}\sqrt{190}e^{13}, \frac{2}{23}\sqrt{57}e^{15},$ $\frac{4}{23}\sqrt{19}e^{17} + \frac{1}{23}\sqrt{114}e^{34}$	$(\frac{7}{23}, -\frac{12}{23}, \frac{2}{23}, \frac{7}{23}, -\frac{5}{23}, \frac{9}{23}, \frac{2}{23}, \frac{9}{23})$ $+\frac{19}{23}\sqrt{2}e^1 \otimes e_2$	{137, 1467, 236, 24}
8421:4	$0, 0, 0, 0, \frac{8}{43}\sqrt{15}e^{12}, \frac{2}{43}\sqrt{195}e^{13}, \frac{2}{43}\sqrt{105}e^{15},$ $\frac{4}{43}\sqrt{30}e^{17} + \frac{8}{43}\sqrt{15}e^{34}$	$(-\frac{10}{43}, \frac{27}{43}, \frac{5}{43}, -\frac{8}{43}, \frac{17}{43}, -\frac{5}{43}, \frac{7}{43}, -\frac{3}{43})$ $+\frac{10}{43}\sqrt{21}e^2 \otimes e_8$	{123467, 127, 13568, 1458}
8421:4	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{14}e^{13}, \frac{2}{7}e^{15}, \frac{2}{7}\sqrt{2}e^{17} + \frac{1}{7}\sqrt{6}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, 0, \frac{1}{7})$ $+\frac{1}{7}\sqrt{22}e^1 \otimes e_2 + \frac{4}{7}e^3 \otimes e_4$	{137, 1467, 236, 24}
8421:4	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{14}e^{13}, \frac{2}{7}e^{15}, \frac{2}{7}\sqrt{2}e^{17} + \frac{1}{7}\sqrt{6}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, 0, \frac{1}{7})$ $+\frac{1}{7}\sqrt{22}e^1 \otimes e_2 - \frac{4}{7}e^3 \otimes e_4$	{137, 1467, 236, 24}
8421:4	$0, 0, 0, 0, \frac{22}{607}\sqrt{219}e^{12}, \frac{33}{607}\sqrt{38}e^{13}, \frac{77}{607}\sqrt{6}e^{15},$ $\frac{11}{607}\sqrt{438}e^{17} + \frac{22}{607}\sqrt{219}e^{34}$	$(-\frac{121}{607}, \frac{308}{607}, \frac{154}{607}, -\frac{209}{607}, \frac{187}{607}, \frac{33}{607}, \frac{66}{607}, -\frac{55}{607})$ $+\frac{22}{607}\sqrt{546}e^2 \otimes e_8 + \frac{33}{607}\sqrt{102}e^3 \otimes e_4$	{13568, 1458}
8421:4	$0, 0, 0, 0, \frac{3}{17}\sqrt{19}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{3}{34}\sqrt{10}e^{15},$ $\frac{9}{17}e^{17} + \frac{3}{34}\sqrt{2}e^{34}$	$(-\frac{15}{68}, \frac{49}{68}, -\frac{2}{17}, \frac{3}{17}, \frac{1}{2}, -\frac{23}{68}, \frac{19}{68}, \frac{1}{17})$ $+\frac{3}{34}\sqrt{222}e^2 \otimes e_6$	{1234, 145678, 2458, 3467}
8421:4	$0, 0, 0, 0, \frac{30}{371}\sqrt{14}e^{12}, \frac{5}{371}\sqrt{1414}e^{13}, \frac{10}{53}\sqrt{3}e^{15},$ $\frac{50}{371}\sqrt{7}e^{17} + \frac{10}{371}\sqrt{42}e^{34}$	$(\frac{10}{53}, -\frac{15}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, 0, \frac{5}{53}, \frac{15}{53})$ $+\frac{20}{371}\sqrt{161}e^1 \otimes e_2 + \frac{60}{371}\sqrt{14}e^4 \otimes e_6$	{1347, 167}
8421:4	$0, 0, 0, 0, \frac{1}{77}\sqrt{1122}e^{12}, \frac{1}{77}\sqrt{330}e^{13}, \frac{1}{77}\sqrt{330}e^{15},$ $\frac{2}{77}\sqrt{66}e^{17} + \frac{2}{77}\sqrt{429}e^{34}$	$(-\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, 0)$ $+\frac{4}{77}\sqrt{165}e^2 \otimes e_8 + \frac{9}{77}\sqrt{22}e^4 \otimes e_6$	{13568, 1458}
8421:4	$0, 0, 0, 0, \frac{5}{53}\sqrt{10}e^{12}, \frac{5}{53}\sqrt{42}e^{13}, \frac{5}{53}\sqrt{11}e^{15},$ $\frac{10}{53}\sqrt{3}e^{17} + \frac{5}{53}\sqrt{7}e^{34}$	$(-\frac{10}{53}, \frac{25}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, 0, \frac{5}{53}, -\frac{5}{53})$ $+\frac{5}{53}\sqrt{46}e^3 \otimes e_4 + \frac{5}{53}\sqrt{51}e^2 \otimes e_6$	{123, 367}
8421:4	$0, 0, 0, 0, \frac{1}{43}\sqrt{318}e^{12}, \frac{6}{43}\sqrt{53}e^{13}, \frac{1}{43}\sqrt{371}e^{15},$ $\frac{1}{43}\sqrt{159}e^{17} + \frac{1}{43}\sqrt{318}e^{34}$	$(-\frac{5}{86}, \frac{21}{86}, \frac{28}{43}, -\frac{25}{43}, \frac{8}{43}, \frac{51}{86}, \frac{11}{86}, \frac{3}{43})$ $+\frac{1}{43}\sqrt{3763}e^3 \otimes e_4$	{13, 146, 2367, 247}
8421:5	$0, 0, 0, 0, \frac{65}{1267}\sqrt{6}e^{12}, \frac{10}{1267}\sqrt{570}e^{13}, \frac{10}{1267}\sqrt{393}e^{25},$ $\frac{10}{1267}\sqrt{570}e^{27} + \frac{30}{1267}\sqrt{7}e^{34}$	$(\frac{85}{1267}, -\frac{25}{1267}, -\frac{185}{1267}, \frac{195}{1267}, \frac{60}{1267}, -\frac{100}{1267}, \frac{5}{181}, \frac{10}{1267})$ $+\frac{15}{1267}\sqrt{422}e^2 \otimes e_6 + \frac{5}{1267}\sqrt{2886}e^1 \otimes e_8$	{1237, 258}
8421:5	$0, 0, 0, 0, \frac{2}{145}\sqrt{1653}e^{12}, \frac{2}{145}\sqrt{1653}e^{13}, \frac{2}{145}\sqrt{570}e^{25},$ $\frac{2}{145}\sqrt{1653}e^{27} + \frac{2}{145}\sqrt{1653}e^{34}$	$(\frac{3}{5}, -\frac{38}{145}, -\frac{28}{145}, \frac{1}{145}, \frac{49}{145}, \frac{59}{145}, \frac{11}{145}, -\frac{27}{145})$ $+\frac{2}{145}\sqrt{6555}e^1 \otimes e_8$	{12347, 1267, 23568, 2458}
8421:5	$0, 0, 0, 0, \frac{2}{411}\sqrt{1115}e^{12}, \frac{4}{411}\sqrt{5798}e^{13}, \frac{4}{411}\sqrt{1561}e^{25},$ $\frac{2}{411}\sqrt{1115}e^{27} + \frac{4}{411}\sqrt{5798}e^{34}$	$(-\frac{5}{137}, \frac{22}{137}, -\frac{124}{411}, \frac{307}{411}, \frac{17}{137}, -\frac{139}{411}, \frac{39}{137}, \frac{61}{137})$ $+\frac{2}{411}\sqrt{72921}e^4 \otimes e_6$	{12345, 1256, 23678, 2478}
8421:5	$0, 0, 0, 0, \frac{4}{99}\sqrt{177}e^{12}, \frac{2}{99}\sqrt{2419}e^{13}, \frac{1}{99}\sqrt{1534}e^{25},$ $\frac{1}{99}\sqrt{3422}e^{27} + \frac{4}{99}\sqrt{177}e^{34}$	$(-\frac{19}{198}, \frac{7}{66}, \frac{70}{99}, -\frac{16}{33}, \frac{1}{99}, \frac{11}{18}, \frac{23}{198}, \frac{2}{9})$ $+\frac{1}{99}\sqrt{18762}e^3 \otimes e_4$	{13, 146, 2367, 247}
8421:5	$0, 0, 0, 0, \frac{4}{33}\sqrt{6}e^{12}, \frac{8}{33}\sqrt{6}e^{13}, \frac{4}{33}\sqrt{22}e^{25},$ $\frac{8}{33}\sqrt{6}e^{27} + \frac{8}{33}\sqrt{3}e^{34}$	$(-\frac{3}{11}, \frac{7}{33}, 0, \frac{4}{11}, -\frac{2}{33}, -\frac{3}{11}, \frac{5}{33}, \frac{4}{11})$ $+\frac{4}{11}\sqrt{6}e^2 \otimes e_6$	{1237, 15678, 258, 36}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:5	$0, 0, 0, 0, \frac{1}{91}\sqrt{390}e^{12}, \frac{9}{91}\sqrt{26}e^{13}, \frac{2}{91}\sqrt{78}e^{25},$ $\frac{4}{91}\sqrt{78}e^{27} + \frac{1}{91}\sqrt{390}e^{34}$	$(\frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{3}{7}, 0, -\frac{1}{7})$ $+ \frac{2}{91}\sqrt{897}e^1 \otimes e_8 + \frac{3}{91}\sqrt{286}e^3 \otimes e_4$	{23568, 2458}
8421:5	$0, 0, 0, 0, \frac{12}{83}\sqrt{3}e^{12}, \frac{45}{166}\sqrt{2}e^{13}, \frac{3}{83}\sqrt{21}e^{25},$ $\frac{12}{83}\sqrt{3}e^{27} + \frac{45}{166}\sqrt{2}e^{34}$	$(\frac{24}{83}, -\frac{9}{83}, -\frac{27}{83}, \frac{24}{83}, \frac{15}{83}, -\frac{3}{83}, \frac{6}{83}, -\frac{3}{83})$ $+ \frac{3}{166}\sqrt{966}e^1 \otimes e_8 + \frac{9}{166}\sqrt{86}e^4 \otimes e_6$	{12347, 1267, 23568, 2458}
8421:5	$0, 0, 0, 0, \frac{12}{83}\sqrt{3}e^{12}, \frac{45}{166}\sqrt{2}e^{13}, \frac{3}{83}\sqrt{21}e^{25},$ $\frac{12}{83}\sqrt{3}e^{27} + \frac{45}{166}\sqrt{2}e^{34}$	$(\frac{24}{83}, -\frac{9}{83}, -\frac{27}{83}, \frac{24}{83}, \frac{15}{83}, -\frac{3}{83}, \frac{6}{83}, -\frac{3}{83})$ $+ \frac{3}{166}\sqrt{966}e^1 \otimes e_8 - \frac{9}{166}\sqrt{86}e^4 \otimes e_6$	{12347, 1267, 23568, 2458}
8421:6	$0, 0, 0, 0, \frac{12}{361}\sqrt{851}e^{12}, \frac{2}{361}\sqrt{5106}e^{13} + \frac{6}{361}\sqrt{370}e^{24}, \frac{2}{361}\sqrt{6882}e^{15},$ $\frac{6}{361}\sqrt{370}e^{17}$	$(-\frac{61}{361}, \frac{238}{361}, \frac{93}{361}, -\frac{206}{361}, \frac{177}{361}, \frac{32}{361}, \frac{116}{361}, \frac{55}{361})$ $+ \frac{6}{361}\sqrt{7178}e^2 \otimes e_4$	{1278, 145, 2357, 348}
8421:6	$0, 0, 0, 0, \frac{6}{77}\sqrt{2}e^{12}, \frac{6}{385}\sqrt{66}e^{13} + \frac{6}{385}\sqrt{39}e^{24}, \frac{6}{385}\sqrt{59}e^{15},$ $\frac{3}{385}\sqrt{278}e^{17}$	$(-\frac{3}{385}, \frac{24}{385}, -\frac{12}{385}, -\frac{39}{385}, \frac{3}{55}, -\frac{3}{77}, \frac{18}{385}, \frac{3}{77})$ $+ \frac{3}{385}\sqrt{326}e^2 \otimes e_8 + \frac{3}{385}\sqrt{366}e^1 \otimes e_3$	{1247, 158}
8421:6	$0, 0, 0, 0, \frac{36}{1151}\sqrt{354}e^{12}, \frac{72}{1151}\sqrt{94}e^{13} + \frac{36}{1151}\sqrt{74}e^{24}, \frac{36}{1151}\sqrt{509}e^{15},$ $\frac{36}{1151}\sqrt{391}e^{17}$	$(\frac{273}{1151}, -\frac{228}{1151}, -\frac{375}{1151}, \frac{126}{1151}, \frac{45}{1151}, -\frac{102}{1151}, \frac{318}{1151}, \frac{591}{1151})$ $+ \frac{36}{1151}\sqrt{951}e^1 \otimes e_3$	{1247, 158, 234578, 3}
8421:6	$0, 0, 0, 0, \frac{9}{91}\sqrt{14}e^{12}, \frac{3}{91}\sqrt{182}e^{13} + \frac{3}{13}e^{24}, \frac{3}{91}\sqrt{7}e^{15},$ $\frac{3}{91}\sqrt{154}e^{17}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{3}{13}, 0, -\frac{3}{13})$ $+ \frac{18}{91}\sqrt{14}e^2 \otimes e_4 + \frac{3}{91}\sqrt{609}e^3 \otimes e_8$	{13457, 478}
8421:6	$0, 0, 0, 0, \frac{4}{43}\sqrt{30}e^{12}, \frac{2}{43}\sqrt{195}e^{13} + \frac{8}{43}\sqrt{15}e^{24}, \frac{2}{43}\sqrt{105}e^{15},$ $\frac{8}{43}\sqrt{15}e^{17}$	$(-\frac{10}{43}, \frac{19}{43}, \frac{21}{43}, -\frac{8}{43}, \frac{9}{43}, \frac{11}{43}, -\frac{1}{43}, -\frac{11}{43})$ $+ \frac{10}{43}\sqrt{21}e^2 \otimes e_8$	{12367, 1247, 134568, 158}
8421:6	$0, 0, 0, 0, \frac{132}{373}\sqrt{2}e^{12}, \frac{8}{373}\sqrt{759}e^{13} + \frac{12}{373}\sqrt{649}e^{24}, \frac{8}{373}\sqrt{429}e^{15},$ $\frac{12}{373}\sqrt{649}e^{17}$	$(-\frac{7}{373}, -\frac{47}{373}, \frac{156}{373}, \frac{196}{373}, -\frac{54}{373}, \frac{149}{373}, -\frac{61}{373}, -\frac{68}{373})$ $+ \frac{12}{373}\sqrt{1133}e^4 \otimes e_8$	{123568, 13467, 234, 3578}
8421:6	$0, 0, 0, 0, \frac{6}{385}\sqrt{105}e^{12}, \frac{3}{55}\sqrt{34}e^{13} + \frac{3}{385}\sqrt{1358}e^{24}, \frac{3}{385}\sqrt{1610}e^{15},$ $\frac{6}{385}\sqrt{553}e^{17}$	$(\frac{6}{55}, -\frac{12}{55}, -\frac{3}{55}, \frac{3}{11}, -\frac{6}{55}, \frac{3}{55}, 0, \frac{6}{55})$ $+ \frac{3}{385}\sqrt{2226}e^4 \otimes e_8 + \frac{3}{385}\sqrt{2562}e^1 \otimes e_3$	{1247, 158}
8421:6	$0, 0, 0, 0, \frac{9}{17}e^{12}, \frac{6}{17}\sqrt{5}e^{13} + \frac{3}{17}\sqrt{2}e^{24}, \frac{3}{34}\sqrt{10}e^{15},$ $\frac{3}{17}\sqrt{19}e^{17}$	$(-\frac{15}{68}, \frac{21}{68}, \frac{12}{17}, \frac{3}{17}, \frac{3}{34}, \frac{33}{68}, -\frac{9}{68}, -\frac{6}{17})$ $+ \frac{3}{34}\sqrt{222}e^3 \otimes e_8$	{123457, 1468, 2478, 3456}
8421:7	$0, 0, 0, 0, \frac{3}{124}\sqrt{267}e^{12}, \frac{3}{62}\sqrt{89}e^{34}, \frac{1}{186}\sqrt{5518}e^{15},$ $\frac{3}{124}\sqrt{267}e^{17} + \frac{1}{186}\sqrt{5073}e^{23}$	$(\frac{5}{372}, \frac{37}{248}, \frac{5}{124}, \frac{33}{124}, \frac{121}{744}, -\frac{7}{31}, \frac{131}{744}, \frac{47}{248})$ $+ \frac{1}{372}\sqrt{55002}e^1 \otimes e_6$	{127, 158, 235678, 36}
8421:7	$0, 0, 0, 0, \frac{2}{289}\sqrt{10947}e^{12}, \frac{8}{289}\sqrt{615}e^{34}, \frac{2}{289}\sqrt{2337}e^{15},$ $\frac{18}{289}\sqrt{41}e^{17} + \frac{14}{289}\sqrt{123}e^{23}$	$(-\frac{24}{289}, \frac{151}{289}, -\frac{72}{289}, -\frac{23}{289}, \frac{127}{289}, -\frac{95}{289}, \frac{103}{289}, \frac{79}{289})$ $+ \frac{4}{289}\sqrt{7134}e^2 \otimes e_6$	{1278, 1456, 23457, 368}
8421:7	$0, 0, 0, 0, \frac{1}{319}\sqrt{1254}e^{12}, \frac{1}{319}\sqrt{2706}e^{34}, \frac{5}{319}\sqrt{66}e^{15},$ $\frac{4}{319}\sqrt{143}e^{17} + \frac{10}{319}\sqrt{11}e^{23}$	$(-\frac{1}{29}, \frac{3}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{1}{29}, 0)$ $+ \frac{1}{319}\sqrt{4070}e^1 \otimes e_6 + \frac{2}{319}\sqrt{517}e^4 \otimes e_8$	{158, 235678}
8421:7	$0, 0, 0, 0, \frac{18}{289}\sqrt{41}e^{12}, \frac{8}{289}\sqrt{615}e^{34}, \frac{2}{289}\sqrt{2337}e^{15},$ $\frac{2}{289}\sqrt{10947}e^{17} + \frac{14}{289}\sqrt{123}e^{23}$	$(-\frac{24}{289}, \frac{35}{289}, -\frac{72}{289}, \frac{209}{289}, \frac{11}{289}, \frac{137}{289}, -\frac{13}{289}, -\frac{37}{289})$ $+ \frac{4}{289}\sqrt{7134}e^4 \otimes e_8$	{1258, 1467, 234, 35678}
8421:7	$0, 0, 0, 0, \frac{43}{3941}\sqrt{1182}e^{12}, \frac{43}{3941}\sqrt{910}e^{34}, \frac{86}{3941}\sqrt{78}e^{15},$ $\frac{172}{3941}\sqrt{51}e^{17} + \frac{43}{3941}\sqrt{2202}e^{23}$	$(\frac{129}{3941}, \frac{774}{3941}, \frac{387}{3941}, -\frac{1462}{3941}, \frac{129}{563}, -\frac{1075}{3941}, \frac{1032}{3941}, \frac{1161}{3941})$ $+ \frac{215}{3941}\sqrt{118}e^3 \otimes e_4 + \frac{258}{3941}\sqrt{111}e^2 \otimes e_6$	{1456, 368}
8421:7	$0, 0, 0, 0, \frac{4}{17}\sqrt{3}e^{12}, \frac{8}{17}e^{34}, \frac{4}{17}\sqrt{3}e^{15},$ $\frac{4}{17}\sqrt{3}e^{17} + \frac{4}{17}\sqrt{3}e^{23}$	$(0, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{2}e^3 \otimes e_4 + \frac{2}{17}\sqrt{30}e^1 \otimes e_6$	{127, 158}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:7	$0, 0, 0, 0, \frac{1}{332}\sqrt{13497}e^{12}, \frac{1}{166}\sqrt{4499}e^{34}, \frac{1}{332}\sqrt{17178}e^{15},$ $\frac{1}{332}\sqrt{13497}e^{17} + \frac{1}{332}\sqrt{105522}e^{23}$	$(\frac{75}{332}, -\frac{99}{664}, \frac{225}{332}, -\frac{46}{83}, \frac{51}{664}, \frac{41}{332}, \frac{201}{664}, \frac{351}{664})$ $+ \frac{1}{332}\sqrt{220042}e^3 \otimes e_4$	{1235, 1378, 248, 457}
8421:7	$0, 0, 0, 0, \frac{12}{83}\sqrt{3}e^{12}, \frac{3}{166}\sqrt{546}e^{34}, \frac{3}{83}\sqrt{21}e^{15},$ $\frac{12}{83}\sqrt{3}e^{17} + \frac{3}{166}\sqrt{354}e^{23}$	$(-\frac{9}{83}, \frac{24}{83}, -\frac{27}{83}, \frac{24}{83}, \frac{15}{83}, -\frac{3}{83}, \frac{6}{83}, -\frac{3}{83})$ $+ \frac{3}{166}\sqrt{870}e^2 \otimes e_6 + \frac{3}{166}\sqrt{870}e^4 \otimes e_8$	{12347, 13568, 2578, 46}
8421:7	$0, 0, 0, 0, \frac{12}{83}\sqrt{3}e^{12}, \frac{3}{166}\sqrt{546}e^{34}, \frac{3}{83}\sqrt{21}e^{15},$ $\frac{12}{83}\sqrt{3}e^{17} + \frac{3}{166}\sqrt{354}e^{23}$	$(-\frac{9}{83}, \frac{24}{83}, -\frac{27}{83}, \frac{24}{83}, \frac{15}{83}, -\frac{3}{83}, \frac{6}{83}, -\frac{3}{83})$ $+ \frac{3}{166}\sqrt{870}e^2 \otimes e_6 - \frac{3}{166}\sqrt{870}e^4 \otimes e_8$	{12347, 13568, 2578, 46}
8421:8	$0, 0, 0, 0, \frac{1}{67}\sqrt{498}e^{12}, \frac{3}{67}\sqrt{498}e^{13}, \frac{1}{67}\sqrt{830}e^{15},$ $\frac{1}{67}\sqrt{498}e^{17} + \frac{1}{67}\sqrt{498}e^{23}$	$(-\frac{4}{67}, \frac{18}{67}, -\frac{12}{67}, 1, \frac{14}{67}, -\frac{16}{67}, \frac{10}{67}, \frac{6}{67})$ $+ \frac{1}{67}\sqrt{9130}e^4 \otimes e_6$	{1234578, 134, 247, 458}
8421:8	$0, 0, 0, 0, \frac{9}{284}\sqrt{190}e^{12}, \frac{1}{284}\sqrt{24510}e^{13}, \frac{2}{71}\sqrt{285}e^{15},$ $\frac{9}{284}\sqrt{190}e^{17} + \frac{3}{284}\sqrt{5605}e^{23}$	$(\frac{5}{568}, -\frac{17}{568}, \frac{15}{568}, 1, -\frac{3}{142}, \frac{5}{142}, -\frac{7}{568}, -\frac{1}{284})$ $+ \frac{3}{284}\sqrt{14630}e^4 \otimes e_8$	{1258, 147, 234, 3578}
8421:8	$0, 0, 0, 0, \frac{62}{2813}\sqrt{354}e^{12}, \frac{403}{2813}\sqrt{6}e^{13}, \frac{62}{2813}\sqrt{201}e^{15},$ $\frac{62}{2813}\sqrt{79}e^{17} + \frac{124}{2813}\sqrt{3}e^{23}$	$(-\frac{62}{2813}, \frac{713}{2813}, -\frac{186}{2813}, -\frac{1023}{2813}, \frac{651}{2813}, -\frac{248}{2813}, \frac{589}{2813}, \frac{527}{2813})$ $+ \frac{310}{2813}\sqrt{22}e^2 \otimes e_6 + \frac{372}{2813}\sqrt{19}e^1 \otimes e_4$	{1237, 24578}
8421:8	$0, 0, 0, 0, \frac{2}{283}\sqrt{8679}e^{12}, \frac{1}{283}\sqrt{36294}e^{13}, \frac{2}{283}\sqrt{789}e^{15},$ $\frac{10}{283}\sqrt{263}e^{17} + \frac{2}{283}\sqrt{8679}e^{23}$	$(-\frac{28}{283}, \frac{151}{283}, -\frac{84}{283}, \frac{51}{283}, \frac{123}{283}, -\frac{112}{283}, \frac{95}{283}, \frac{67}{283})$ $+ \frac{4}{283}\sqrt{7627}e^2 \otimes e_6$	{123, 1234, 2458, 258}
8421:8	$0, 0, 0, 0, \frac{3}{284}\sqrt{5605}e^{12}, \frac{1}{284}\sqrt{24510}e^{13}, \frac{2}{71}\sqrt{285}e^{15},$ $\frac{9}{284}\sqrt{190}e^{17} + \frac{3}{284}\sqrt{5605}e^{23}$	$(\frac{5}{568}, \frac{107}{284}, \frac{15}{568}, -\frac{89}{142}, \frac{219}{568}, \frac{5}{142}, \frac{28}{71}, \frac{229}{568})$ $+ \frac{3}{284}\sqrt{14630}e^2 \otimes e_4$	{1278, 145, 2357, 348}
8421:8	$0, 0, 0, 0, \frac{132}{3581}\sqrt{23}e^{12}, \frac{33}{3581}\sqrt{2230}e^{13}, \frac{198}{3581}\sqrt{15}e^{15},$ $\frac{66}{3581}\sqrt{329}e^{17} + \frac{462}{3581}\sqrt{10}e^{23}$	$(-\frac{66}{3581}, \frac{825}{3581}, -\frac{198}{3581}, -\frac{1287}{3581}, \frac{759}{3581}, -\frac{264}{3581}, \frac{693}{3581}, \frac{627}{3581})$ $+ \frac{132}{3581}\sqrt{199}e^3 \otimes e_4 + \frac{66}{3581}\sqrt{842}e^2 \otimes e_6$	{123, 2458}
8421:8	$0, 0, 0, 0, \frac{1}{27}\sqrt{266}e^{12}, \frac{1}{27}\sqrt{114}e^{13}, \frac{4}{27}\sqrt{19}e^{15},$ $\frac{1}{27}\sqrt{266}e^{17} + \frac{2}{27}\sqrt{38}e^{23}$	$(\frac{2}{27}, \frac{2}{27}, \frac{2}{9}, -\frac{17}{27}, \frac{4}{27}, \frac{8}{27}, \frac{2}{9}, \frac{8}{27})$ $+ \frac{2}{27}\sqrt{209}e^1 \otimes e_4$	{1267, 1568, 2345678, 346}
8421:8	$0, 0, 0, 0, \frac{37}{2657}\sqrt{354}e^{12}, \frac{259}{2657}\sqrt{6}e^{13}, \frac{74}{2657}\sqrt{30}e^{15},$ $\frac{592}{2657}e^{17} + \frac{259}{2657}\sqrt{30}e^{23}$	$(-\frac{185}{2657}, \frac{629}{2657}, -\frac{555}{2657}, \frac{1443}{2657}, \frac{444}{2657}, -\frac{740}{2657}, \frac{259}{2657}, \frac{74}{2657})$ $+ \frac{222}{2657}\sqrt{62}e^4 \otimes e_8 + \frac{74}{2657}\sqrt{607}e^2 \otimes e_6$	{12347, 2578}
8421:8	$0, 0, 0, 0, \frac{1}{273}\sqrt{17422}e^{12}, \frac{1}{273}\sqrt{50018}e^{13}, \frac{2}{273}\sqrt{1967}e^{15},$ $\frac{1}{273}\sqrt{17422}e^{17} + \frac{2}{273}\sqrt{11521}e^{23}$	$(\frac{34}{273}, -\frac{4}{273}, \frac{34}{91}, -\frac{179}{273}, \frac{10}{273}, \frac{136}{273}, \frac{64}{273}, \frac{14}{39})$ $+ \frac{2}{273}\sqrt{31753}e^3 \otimes e_4$	{1245678, 146, 2367, 3568}
8421:9	$0, 0, 0, 0, \frac{2}{125}\sqrt{987}e^{12}, \frac{8}{125}\sqrt{141}e^{13}, \frac{6}{125}\sqrt{47}e^{15},$ $\frac{2}{125}\sqrt{1457}e^{17} + \frac{6}{125}\sqrt{235}e^{24}$	$(-\frac{8}{125}, \frac{59}{125}, -\frac{27}{125}, -\frac{24}{125}, \frac{51}{125}, -\frac{7}{25}, \frac{43}{125}, \frac{7}{25})$ $+ \frac{4}{125}\sqrt{1222}e^2 \otimes e_6$	{1234, 145678, 258, 367}
8421:9	$0, 0, 0, 0, \frac{1}{319}\sqrt{1914}e^{12}, \frac{1}{319}\sqrt{3410}e^{13}, \frac{3}{319}\sqrt{110}e^{15},$ $\frac{2}{319}\sqrt{77}e^{17} + \frac{3}{319}\sqrt{770}e^{24}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, -\frac{2}{29}, \frac{2}{29}, -\frac{1}{29}, 0)$ $+ \frac{2}{319}\sqrt{803}e^3 \otimes e_8 + \frac{3}{319}\sqrt{374}e^4 \otimes e_6$	{125678, 458}
8421:9	$0, 0, 0, 0, \frac{2}{125}\sqrt{1457}e^{12}, \frac{8}{125}\sqrt{141}e^{13}, \frac{6}{125}\sqrt{47}e^{15},$ $\frac{2}{125}\sqrt{987}e^{17} + \frac{6}{125}\sqrt{235}e^{24}$	$(-\frac{8}{125}, \frac{7}{125}, \frac{77}{125}, -\frac{24}{125}, -\frac{1}{125}, \frac{69}{125}, -\frac{9}{125}, -\frac{17}{125})$ $+ \frac{4}{125}\sqrt{1222}e^3 \otimes e_8$	{123457, 1468, 278, 356}
8421:9	$0, 0, 0, 0, \frac{1}{268}\sqrt{21809}e^{12}, \frac{1}{134}\sqrt{13317}e^{13}, \frac{1}{268}\sqrt{12738}e^{15},$ $\frac{1}{268}\sqrt{21809}e^{17} + \frac{1}{268}\sqrt{49022}e^{24}$	$(\frac{47}{268}, -\frac{63}{536}, -\frac{99}{268}, \frac{141}{268}, \frac{31}{536}, -\frac{13}{67}, \frac{125}{536}, \frac{219}{536})$ $+ \frac{1}{268}\sqrt{88394}e^4 \otimes e_6$	{125678, 16, 247, 458}
8421:9	$0, 0, 0, 0, \frac{2}{1105}\sqrt{291110}e^{12}, \frac{2}{1105}\sqrt{69054}e^{13}, \frac{2}{1105}\sqrt{71085}e^{15},$ $\frac{8}{1105}\sqrt{677}e^{17} + \frac{2}{1105}\sqrt{45359}e^{24}$	$(-\frac{12}{65}, \frac{742}{1105}, \frac{63}{221}, -\frac{36}{65}, \frac{538}{1105}, \frac{111}{1105}, \frac{334}{1105}, \frac{2}{17})$ $+ \frac{4}{1105}\sqrt{150971}e^2 \otimes e_4$	{13456, 145, 2357, 2567}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:9	$0, 0, 0, 0, \frac{25}{3101}\sqrt{2566e^{12}}, \frac{25}{3101}\sqrt{1898e^{13}}, \frac{100}{3101}\sqrt{129e^{15}},$ $\frac{50}{3101}\sqrt{403e^{17}} + \frac{275}{3101}\sqrt{10e^{24}}$	$(-\frac{25}{3101}, \frac{550}{3101}, -\frac{650}{3101}, -\frac{75}{3101}, \frac{75}{443}, -\frac{675}{3101}, \frac{500}{3101}, \frac{475}{3101})$ $+ \frac{150}{3101}\sqrt{53e^2} \otimes e_4 + \frac{25}{3101}\sqrt{3746e^1} \otimes e_3$	{127, 34}
8421:9	$0, 0, 0, 0, \frac{1}{92}\sqrt{3139e^{12}}, \frac{1}{46}\sqrt{731e^{13}}, \frac{1}{46}\sqrt{903e^{15}},$ $\frac{1}{92}\sqrt{3139e^{17}} + \frac{1}{46}\sqrt{430e^{24}}$	$(\frac{11}{92}, -\frac{7}{184}, -\frac{8}{23}, \frac{33}{92}, \frac{15}{184}, -\frac{21}{92}, \frac{37}{184}, \frac{59}{184})$ $+ \frac{1}{92}\sqrt{6794e^1} \otimes e_3$	{127, 158, 234578, 34}
8421:9	$0, 0, 0, 0, \frac{4}{17}\sqrt{15e^{12}}, \frac{8}{17}\sqrt{5e^{13}}, \frac{4}{17}\sqrt{15e^{15}},$ $\frac{4}{17}\sqrt{15e^{17}} + \frac{4}{17}\sqrt{15e^{24}}$	$(0, \frac{3}{17}, -\frac{4}{17}, 0, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{66e^4} \otimes e_6 + \frac{2}{17}\sqrt{94e^1} \otimes e_3$	{127, 158}
8421:9	$0, 0, 0, 0, \frac{5}{287}\sqrt{182e^{12}}, \frac{10}{287}\sqrt{231e^{13}}, \frac{15}{287}\sqrt{14e^{15}},$ $\frac{10}{287}\sqrt{105e^{17}} + \frac{15}{41}\sqrt{2e^{24}}$	$(-\frac{5}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{15}{41}, \frac{5}{41}, \frac{15}{41}, 0, -\frac{5}{41})$ $+ \frac{45}{287}\sqrt{14e^2} \otimes e_4 + \frac{5}{287}\sqrt{2338e^3} \otimes e_8$	{1468, 278}
8421:9	$0, 0, 0, 0, \frac{7}{125}\sqrt{82e^{12}}, \frac{7}{125}\sqrt{34e^{13}}, \frac{42}{125}\sqrt{2e^{15}},$ $\frac{28}{125}\sqrt{3e^{17}} + \frac{7}{125}\sqrt{10e^{24}}$	$(\frac{7}{125}, \frac{14}{125}, -\frac{42}{125}, \frac{21}{125}, \frac{21}{125}, -\frac{7}{25}, \frac{28}{125}, \frac{7}{25})$ $+ \frac{14}{125}\sqrt{17e^2} \otimes e_6 + \frac{7}{25}\sqrt{6e^1} \otimes e_3$	{127, 234578}
8421:10	$0, 0, 0, 0, \frac{4}{87}\sqrt{274e^{12}}, \frac{2}{261}\sqrt{10138e^{13}}, \frac{2}{261}\sqrt{2329e^{25}},$ $\frac{2}{261}\sqrt{4521e^{14}} + \frac{4}{261}\sqrt{137e^{27}}$	$(\frac{148}{261}, -\frac{14}{87}, -\frac{23}{261}, -\frac{14}{29}, \frac{106}{261}, \frac{125}{261}, \frac{64}{261}, \frac{22}{261})$ $+ \frac{2}{261}\sqrt{28770e^1} \otimes e_4$	{1237, 1267, 346, 4}
8421:10	$0, 0, 0, 0, \frac{2}{261}\sqrt{4521e^{12}}, \frac{2}{261}\sqrt{10138e^{13}}, \frac{2}{261}\sqrt{2329e^{25}},$ $\frac{4}{87}\sqrt{274e^{14}} + \frac{4}{261}\sqrt{137e^{27}}$	$(-\frac{62}{261}, \frac{7}{29}, -\frac{23}{261}, \frac{21}{29}, \frac{1}{261}, -\frac{85}{261}, \frac{64}{261}, \frac{127}{261})$ $+ \frac{2}{261}\sqrt{28770e^4} \otimes e_6$	{12568, 134, 2367, 4578}
8421:10	$0, 0, 0, 0, \frac{1}{104}\sqrt{7107e^{12}}, \frac{1}{104}\sqrt{3502e^{13}}, \frac{1}{52}\sqrt{309e^{25}},$ $\frac{1}{104}\sqrt{7107e^{14}} + \frac{1}{104}\sqrt{3502e^{27}}$	$(\frac{1}{2}, -\frac{11}{208}, -\frac{51}{104}, -\frac{33}{208}, \frac{93}{208}, \frac{104}{104}, \frac{41}{104}, \frac{71}{208})$ $+ \frac{1}{52}\sqrt{4429e^1} \otimes e_3$	{1278, 1457, 235, 348}
8421:10	$0, 0, 0, 0, \frac{2}{17}\sqrt{11e^{12}}, \frac{2}{17}\sqrt{22e^{13}}, \frac{2}{51}\sqrt{187e^{25}},$ $\frac{4}{51}\sqrt{33e^{14}} + \frac{2}{17}\sqrt{22e^{27}}$	$(-\frac{2}{17}, \frac{7}{51}, -\frac{3}{17}, \frac{7}{17}, \frac{1}{51}, -\frac{5}{17}, \frac{8}{51}, \frac{5}{17})$ $+ \frac{2}{51}\sqrt{462e^2} \otimes e_6$	{1237, 145678, 258, 346}
8421:10	$0, 0, 0, 0, \frac{3}{79}\sqrt{106e^{12}}, \frac{21}{79}\sqrt{2e^{13}}, \frac{6}{79}\sqrt{30e^{25}},$ $\frac{6}{79}\sqrt{10e^{14}} + \frac{21}{79}\sqrt{2e^{27}}$	$(\frac{3}{79}, \frac{6}{79}, -\frac{24}{79}, \frac{18}{79}, \frac{9}{79}, -\frac{21}{79}, \frac{15}{79}, \frac{21}{79})$ $+ \frac{3}{79}\sqrt{114e^1} \otimes e_3 + \frac{6}{79}\sqrt{73e^2} \otimes e_6$	{145678, 346}
8421:10	$0, 0, 0, 0, \frac{2}{443}\sqrt{17201e^{12}}, \frac{4}{443}\sqrt{6513e^{13}}, \frac{6}{443}\sqrt{501e^{25}},$ $\frac{4}{443}\sqrt{13026e^{14}} + \frac{4}{443}\sqrt{6513e^{27}}$	$(-\frac{50}{443}, \frac{1}{443}, \frac{287}{443}, \frac{3}{443}, -\frac{49}{443}, \frac{237}{443}, -\frac{48}{443}, -\frac{47}{443})$ $+ \frac{2}{443}\sqrt{60454e^3} \otimes e_8$	{12568, 134, 2367, 4578}
8421:10	$0, 0, 0, 0, \frac{2}{9}e^{12}, \frac{1}{9}\sqrt{6e^{13}}, \frac{2}{9}e^{25}, \frac{2}{9}e^{14} + \frac{2}{9}e^{27}$	$(\frac{1}{9}, 0, -\frac{2}{9}, 0, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{9}\sqrt{10e^2} \otimes e_6 + \frac{1}{9}\sqrt{6e^1} \otimes e_4$	{1237, 346}
8421:10	$0, 0, 0, 0, \frac{451}{3389}\sqrt{6e^{12}}, \frac{205}{3389}\sqrt{10e^{13}}, \frac{246}{3389}\sqrt{7e^{25}},$ $\frac{82}{3389}\sqrt{543e^{14}} + \frac{41}{3389}\sqrt{714e^{27}}$	$(\frac{369}{3389}, \frac{246}{3389}, -\frac{1312}{3389}, \frac{738}{3389}, \frac{615}{3389}, -\frac{943}{3389}, \frac{861}{3389}, \frac{1107}{3389})$ $+ \frac{41}{3389}\sqrt{3130e^1} \otimes e_3 + \frac{82}{3389}\sqrt{723e^4} \otimes e_6$	{12678, 2356}
8421:10	$0, 0, 0, 0, \frac{8}{133}\sqrt{29e^{12}}, \frac{20}{133}\sqrt{7e^{13}}, \frac{12}{133}\sqrt{2e^{25}},$ $\frac{4}{133}\sqrt{123e^{14}} + \frac{8}{133}\sqrt{26e^{27}}$	$(-\frac{32}{133}, \frac{12}{133}, \frac{36}{133}, \frac{36}{133}, -\frac{20}{133}, \frac{4}{133}, -\frac{8}{133}, \frac{4}{133})$ $+ \frac{4}{133}\sqrt{213e^4} \otimes e_6 + \frac{4}{133}\sqrt{265e^3} \otimes e_8$	{12568, 134, 2367, 4578}
8421:10	$0, 0, 0, 0, \frac{8}{133}\sqrt{29e^{12}}, \frac{20}{133}\sqrt{7e^{13}}, \frac{12}{133}\sqrt{2e^{25}},$ $\frac{4}{133}\sqrt{123e^{14}} + \frac{8}{133}\sqrt{26e^{27}}$	$(-\frac{32}{133}, \frac{12}{133}, \frac{36}{133}, \frac{36}{133}, -\frac{20}{133}, \frac{4}{133}, -\frac{8}{133}, \frac{4}{133})$ $- \frac{4}{133}\sqrt{213e^4} \otimes e_6 + \frac{4}{133}\sqrt{265e^3} \otimes e_8$	{12568, 134, 2367, 4578}
8421:10	$0, 0, 0, 0, \frac{37}{3161}\sqrt{170e^{12}}, \frac{74}{3161}\sqrt{519e^{13}}, \frac{111}{3161}\sqrt{30e^{25}},$ $\frac{74}{3161}\sqrt{66e^{14}} + \frac{37}{3161}\sqrt{1302e^{27}}$	$(\frac{481}{3161}, -\frac{296}{3161}, \frac{962}{3161}, -\frac{888}{3161}, \frac{185}{3161}, \frac{1443}{3161}, -\frac{111}{3161}, -\frac{407}{3161})$ $+ \frac{111}{3161}\sqrt{258e^1} \otimes e_4 + \frac{37}{3161}\sqrt{3190e^3} \otimes e_8$	{12568, 4578}
8421:12	$0, 0, 0, 0, \frac{76}{499}\sqrt{17e^{12}}, \frac{38}{1497}\sqrt{499e^{34}}, \frac{38}{499}\sqrt{15e^{15}},$ $\frac{38}{1497}\sqrt{339e^{17}} + \frac{38}{499}\sqrt{73e^{25}}$	$(\frac{38}{499}, \frac{76}{499}, -\frac{247}{1497}, -\frac{247}{1497}, \frac{114}{499}, -\frac{494}{1497}, \frac{152}{499}, \frac{190}{499})$ $+ \frac{38}{1497}\sqrt{1245e^2} \otimes e_6$	{135678, 367}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:12	$0, 0, 0, 0, \frac{34}{263}\sqrt{10}e^{12}, \frac{17}{789}\sqrt{526}e^{34}, \frac{17}{789}\sqrt{618}e^{15},$ $\frac{17}{789}\sqrt{498}e^{17} + \frac{34}{789}\sqrt{69}e^{25}$	$(\frac{17}{263}, \frac{34}{263}, -\frac{119}{789}, -\frac{119}{789}, \frac{51}{263}, -\frac{238}{789}, \frac{68}{263}, \frac{85}{263})$ $+ \frac{17}{789}\sqrt{1290}e^1 \otimes e_6$	{12347, 127, 235678}
8421:12	$0, 0, 0, 0, \frac{204}{1867}\sqrt{10}e^{12}, \frac{34}{1867}\sqrt{526}e^{34}, \frac{34}{1867}\sqrt{618}e^{15},$ $\frac{34}{1867}\sqrt{498}e^{17} + \frac{68}{1867}\sqrt{69}e^{25}$	$(\frac{102}{1867}, \frac{204}{1867}, \frac{51}{1867}, -\frac{527}{1867}, \frac{306}{1867}, -\frac{476}{1867}, \frac{408}{1867}, \frac{510}{1867})$ $+ \frac{34}{1867}\sqrt{1290}e^1 \otimes e_6 + \frac{578}{1867}e^3 \otimes e_4$	{235678, 245678}
8421:12	$0, 0, 0, 0, \frac{1}{51}\sqrt{78}e^{12}, \frac{1}{51}\sqrt{1326}e^{34}, \frac{1}{51}\sqrt{78}e^{15},$ $\frac{13}{51}\sqrt{6}e^{17} + \frac{13}{51}\sqrt{6}e^{25}$	$(-\frac{1}{51}, -\frac{2}{51}, \frac{2}{3}, -\frac{7}{51}, -\frac{1}{17}, \frac{9}{17}, -\frac{4}{51}, -\frac{5}{51})$ $+ \frac{1}{51}\sqrt{3198}e^3 \otimes e_8$	{123457, 123567, 24678, 278}
8421:12	$0, 0, 0, 0, \frac{6}{289}\sqrt{446}e^{12}, \frac{2}{289}\sqrt{4906}e^{34}, \frac{6}{289}\sqrt{446}e^{15},$ $\frac{4}{289}\sqrt{669}e^{17} + \frac{4}{289}\sqrt{669}e^{25}$	$(\frac{18}{289}, \frac{36}{289}, \frac{267}{289}, -\frac{179}{289}, \frac{54}{289}, \frac{88}{289}, \frac{72}{289}, \frac{90}{289})$ $+ \frac{446}{289}e^3 \otimes e_4$	{13568, 14568, 36, 46}
8421:12	$0, 0, 0, 0, \frac{114}{929}\sqrt{17}e^{12}, \frac{19}{929}\sqrt{499}e^{34}, \frac{57}{929}\sqrt{15}e^{15},$ $\frac{19}{929}\sqrt{339}e^{17} + \frac{57}{929}\sqrt{73}e^{25}$	$(\frac{57}{929}, \frac{114}{929}, \frac{57}{929}, -\frac{304}{929}, \frac{171}{929}, -\frac{247}{929}, \frac{228}{929}, \frac{285}{929})$ $+ \frac{19}{929}\sqrt{1245}e^2 \otimes e_6 - \frac{361}{929}e^3 \otimes e_4$	{135678, 145678, 367, 467}
8421:12	$0, 0, 0, 0, \frac{114}{929}\sqrt{17}e^{12}, \frac{19}{929}\sqrt{499}e^{34}, \frac{57}{929}\sqrt{15}e^{15},$ $\frac{19}{929}\sqrt{339}e^{17} + \frac{57}{929}\sqrt{73}e^{25}$	$(\frac{57}{929}, \frac{114}{929}, \frac{57}{929}, -\frac{304}{929}, \frac{171}{929}, -\frac{247}{929}, \frac{228}{929}, \frac{285}{929})$ $+ \frac{19}{929}\sqrt{1245}e^2 \otimes e_6 + \frac{361}{929}e^3 \otimes e_4$	{135678, 145678, 367, 467}
8421:12	$0, 0, 0, 0, \frac{17}{3831}\sqrt{906}e^{12}, \frac{17}{3831}\sqrt{2554}e^{34}, \frac{17}{1277}\sqrt{190}e^{15},$ $\frac{34}{3831}\sqrt{573}e^{17} + \frac{34}{3831}\sqrt{30}e^{25}$	$(\frac{17}{1277}, \frac{34}{1277}, \frac{544}{3831}, -\frac{782}{3831}, \frac{51}{1277}, -\frac{238}{3831}, \frac{68}{1277}, \frac{85}{1277})$ $+ \frac{34}{3831}\sqrt{1005}e^1 \otimes e_6 + \frac{34}{3831}\sqrt{663}e^3 \otimes e_8$	{12347, 245678}
8421:12	$0, 0, 0, 0, \frac{19}{1343}\sqrt{194}e^{12}, \frac{19}{4029}\sqrt{2686}e^{34}, \frac{19}{1343}\sqrt{78}e^{15},$ $\frac{19}{4029}\sqrt{258}e^{17} + \frac{19}{1343}\sqrt{334}e^{25}$	$(\frac{19}{1343}, \frac{38}{1343}, \frac{38}{237}, -\frac{893}{4029}, \frac{57}{1343}, -\frac{247}{4029}, \frac{76}{1343}, \frac{95}{1343})$ $+ \frac{57}{1343}\sqrt{38}e^3 \otimes e_8 + \frac{76}{4029}\sqrt{255}e^2 \otimes e_6$	{145678, 367}
8421:13	$0, 0, 0, 0, \frac{24}{199}\sqrt{46}e^{12}, \frac{8}{199}\sqrt{138}e^{13} + \frac{72}{199}\sqrt{2}e^{24}, \frac{8}{199}\sqrt{114}e^{15},$ $\frac{72}{199}\sqrt{2}e^{17} + \frac{24}{199}\sqrt{46}e^{23}$	$(-\frac{4}{199}, \frac{88}{199}, -\frac{12}{199}, -\frac{104}{199}, \frac{84}{199}, -\frac{16}{199}, \frac{80}{199}, \frac{76}{199})$ $+ \frac{24}{199}\sqrt{110}e^2 \otimes e_4$	{1278, 145, 2357, 348}
8421:13	$0, 0, 0, 0, \frac{24}{199}\sqrt{46}e^{12}, \frac{8}{199}\sqrt{138}e^{13} + \frac{72}{199}\sqrt{2}e^{24}, \frac{8}{199}\sqrt{114}e^{15},$ $\frac{72}{199}\sqrt{2}e^{17} + \frac{24}{199}\sqrt{46}e^{23}$	$(-\frac{4}{199}, \frac{88}{199}, -\frac{12}{199}, -\frac{104}{199}, \frac{84}{199}, -\frac{16}{199}, \frac{80}{199}, \frac{76}{199})$ $- \frac{24}{199}\sqrt{110}e^2 \otimes e_4$	{1278, 145, 2357, 348}
8421:13	$0, 0, 0, 0, \frac{39}{835}\sqrt{114}e^{12}, \frac{13}{835}\sqrt{1398}e^{13} + \frac{78}{835}\sqrt{59}e^{24}, \frac{26}{835}\sqrt{186}e^{15},$ $\frac{78}{835}\sqrt{59}e^{17} + \frac{39}{835}\sqrt{118}e^{23}$	$(\frac{13}{167}, -\frac{221}{835}, \frac{39}{167}, \frac{481}{835}, -\frac{156}{835}, \frac{52}{167}, -\frac{91}{835}, -\frac{26}{835})$ $+ \frac{156}{835}\sqrt{29}e^4 \otimes e_8$	{234, 3578}
8421:14	$0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{16}{325}\sqrt{151}e^{13}, \frac{112}{325}\sqrt{2}e^{15},$ $\frac{32}{325}\sqrt{33}e^{17} + \frac{16}{325}\sqrt{185}e^{25}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, \frac{42}{325}, \frac{57}{325}, -\frac{18}{65}, \frac{76}{325}, \frac{19}{65})$ $+ \frac{16}{325}\sqrt{283}e^2 \otimes e_6$	{145678, 15678, 3467, 367}
8421:14	$0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{32}{325}\sqrt{33}e^{13}, \frac{16}{325}\sqrt{185}e^{15},$ $\frac{16}{325}\sqrt{151}e^{17} + \frac{112}{325}\sqrt{2}e^{25}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, \frac{42}{325}, \frac{57}{325}, -\frac{18}{65}, \frac{76}{325}, \frac{19}{65})$ $+ \frac{16}{325}\sqrt{283}e^1 \otimes e_3$	{1247, 127, 234578, 23578}
8421:14	$0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{6}{35}\sqrt{35}e^{13}, \frac{3}{35}\sqrt{42}e^{15},$ $\frac{4}{35}\sqrt{21}e^{17} + \frac{3}{35}\sqrt{105}e^{25}$	$(\frac{3}{70}, \frac{3}{35}, -\frac{17}{70}, \frac{1}{70}, \frac{9}{70}, -\frac{1}{5}, \frac{6}{35}, \frac{3}{14})$ $+ \frac{3}{35}\sqrt{266}e^4 \otimes e_6$	{134, 16, 3568, 458}
8421:14	$0, 0, 0, 0, \frac{5}{178}\sqrt{246}e^{12}, \frac{15}{178}\sqrt{22}e^{13}, \frac{5}{178}\sqrt{254}e^{15},$ $\frac{5}{89}\sqrt{43}e^{17} + \frac{25}{178}\sqrt{2}e^{25}$	$(\frac{5}{89}, \frac{10}{89}, -\frac{20}{89}, -\frac{15}{89}, \frac{15}{89}, -\frac{15}{89}, \frac{20}{89}, \frac{25}{89})$ $+ \frac{15}{178}\sqrt{22}e^2 \otimes e_4 + \frac{5}{89}\sqrt{109}e^1 \otimes e_3$	{127, 23578}
8421:14	$0, 0, 0, 0, \frac{1}{42}\sqrt{154}e^{12}, \frac{1}{42}\sqrt{266}e^{13}, \frac{1}{42}\sqrt{210}e^{15},$ $\frac{1}{21}\sqrt{21}e^{17} + \frac{1}{6}\sqrt{10}e^{25}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{21}\sqrt{133}e^3 \otimes e_8 + \frac{1}{42}\sqrt{518}e^2 \otimes e_4$	{145678, 3467}
8421:14	$0, 0, 0, 0, \frac{45}{127}\sqrt{2}e^{12}, \frac{10}{127}\sqrt{53}e^{13}, \frac{35}{127}\sqrt{6}e^{15},$ $\frac{20}{127}\sqrt{15}e^{17} + \frac{10}{127}\sqrt{39}e^{25}$	$(\frac{15}{254}, \frac{15}{127}, -\frac{85}{254}, \frac{15}{127}, \frac{45}{254}, -\frac{35}{127}, \frac{30}{127}, \frac{75}{254})$ $+ \frac{40}{127}\sqrt{7}e^1 \otimes e_3 + \frac{5}{127}\sqrt{6}e^4 \otimes e_6$	{127, 23578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:14	$0, 0, 0, 0, \frac{3}{511}\sqrt{1122e^{12}}, \frac{1}{511}\sqrt{5610e^{13}}, \frac{4}{511}\sqrt{561e^{15}},$ $\frac{66}{511}\sqrt{34e^{17}} + \frac{3}{511}\sqrt{16082e^{25}}$	$(-\frac{10}{511}, -\frac{20}{511}, \frac{15}{73}, 1, -\frac{30}{511}, \frac{95}{511}, -\frac{40}{511}, -\frac{50}{511})$ $+ \frac{3}{511}\sqrt{51238e^4} \otimes e_8$	{1234567, 12457, 2378, 2678}
8421:14	$0, 0, 0, 0, \frac{2}{27}\sqrt{6e^{12}}, \frac{1}{27}\sqrt{102e^{13}}, \frac{4}{27}\sqrt{3e^{15}},$ $\frac{2}{9}\sqrt{3e^{17}} + \frac{2}{9}e^{25}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{27}\sqrt{222e^1} \otimes e_4 + \frac{2}{27}\sqrt{51e^3} \otimes e_8$	{1568, 346}
8421:14	$0, 0, 0, 0, \frac{23}{2111}\sqrt{894e^{12}}, \frac{23}{2111}\sqrt{1306e^{13}}, \frac{92}{2111}\sqrt{106e^{15}},$ $\frac{92}{2111}\sqrt{110e^{17}} + \frac{23}{2111}\sqrt{646e^{25}}$	$(\frac{46}{2111}, \frac{92}{2111}, -\frac{483}{2111}, \frac{759}{2111}, \frac{138}{2111}, -\frac{437}{2111}, \frac{184}{2111}, \frac{230}{2111})$ $+ \frac{1196}{2111}e^1 \otimes e_3 + \frac{23}{2111}\sqrt{1086e^4} \otimes e_8$	{1247, 23578}
8421:14	$0, 0, 0, 0, \frac{9}{529}\sqrt{1066e^{12}}, \frac{3}{529}\sqrt{1394e^{13}}, \frac{60}{529}\sqrt{41e^{15}},$ $\frac{3}{529}\sqrt{13202e^{17}} + \frac{12}{529}\sqrt{451e^{25}}$	$(\frac{34}{529}, \frac{68}{529}, \frac{80}{529}, -\frac{335}{529}, \frac{102}{529}, \frac{114}{529}, \frac{136}{529}, \frac{170}{529})$ $+ \frac{36}{529}\sqrt{246e^1} \otimes e_4$	{1237, 1267, 2345678, 24578}
8421:14	$0, 0, 0, 0, \frac{6}{251}\sqrt{1139e^{12}}, \frac{2}{251}\sqrt{969e^{13}}, \frac{2}{251}\sqrt{2703e^{15}},$ $\frac{12}{251}\sqrt{170e^{17}} + \frac{30}{251}\sqrt{51e^{25}}$	$(\frac{19}{251}, \frac{38}{251}, \frac{33}{251}, -\frac{166}{251}, \frac{57}{251}, \frac{52}{251}, \frac{76}{251}, \frac{95}{251})$ $+ \frac{6}{251}\sqrt{2363e^2} \otimes e_4$	{134578, 145678, 3467, 47}
8421:14	$0, 0, 0, 0, \frac{16}{387}\sqrt{46e^{12}}, \frac{16}{387}\sqrt{170e^{13}}, \frac{64}{387}\sqrt{5e^{15}},$ $\frac{16}{387}\sqrt{3e^{17}} + \frac{16}{387}\sqrt{105e^{25}}$	$(-\frac{4}{129}, -\frac{8}{129}, \frac{68}{387}, \frac{184}{387}, -\frac{4}{43}, \frac{56}{387}, -\frac{16}{129}, -\frac{20}{129})$ $+ \frac{16}{387}\sqrt{149e^4} \otimes e_6 + \frac{16}{387}\sqrt{203e^3} \otimes e_8$	{123457, 2478}
8421:14	$0, 0, 0, 0, \frac{3}{35}\sqrt{14e^{12}}, \frac{6}{35}\sqrt{35e^{13}}, \frac{3}{35}\sqrt{42e^{15}},$ $\frac{4}{35}\sqrt{21e^{17}} + \frac{2}{35}\sqrt{105e^{25}}$	$(\frac{3}{70}, \frac{3}{35}, \frac{4}{7}, -\frac{22}{35}, \frac{9}{70}, \frac{43}{70}, \frac{6}{35}, \frac{3}{14})$ $+ \frac{3}{35}\sqrt{266e^3} \otimes e_4$	{13, 146, 3568, 458}
8421:14	$0, 0, 0, 0, \frac{38}{2741}\sqrt{255e^{12}}, \frac{19}{2741}\sqrt{2626e^{13}}, \frac{19}{2741}\sqrt{1538e^{15}},$ $\frac{19}{2741}\sqrt{1878e^{17}} + \frac{38}{2741}\sqrt{602e^{25}}$	$(\frac{95}{2741}, \frac{190}{2741}, -\frac{266}{2741}, -\frac{627}{2741}, \frac{285}{2741}, -\frac{171}{2741}, \frac{380}{2741}, \frac{475}{2741})$ $+ \frac{418}{2741}\sqrt{7e^2} \otimes e_6 + \frac{57}{2741}\sqrt{186e^3} \otimes e_4$	{145678, 367}
8421:14	$0, 0, 0, 0, \frac{9}{328}\sqrt{2e^{12}}, \frac{1}{328}\sqrt{606e^{13}}, \frac{1}{328}\sqrt{390e^{15}},$ $\frac{1}{328}\sqrt{278e^{17}} + \frac{1}{164}\sqrt{165e^{25}}$	$(-\frac{1}{328}, -\frac{1}{164}, -\frac{3}{328}, \frac{3}{41}, -\frac{3}{328}, -\frac{1}{82}, -\frac{1}{82}, -\frac{5}{328})$ $+ \frac{1}{328}\sqrt{498e^3} \otimes e_8 + \frac{1}{328}\sqrt{718e^2} \otimes e_6$	{145678, 15678, 3467, 367}
8421:14	$0, 0, 0, 0, \frac{9}{328}\sqrt{2e^{12}}, \frac{1}{328}\sqrt{606e^{13}}, \frac{1}{328}\sqrt{390e^{15}},$ $\frac{1}{328}\sqrt{278e^{17}} + \frac{1}{164}\sqrt{165e^{25}}$	$(-\frac{1}{328}, -\frac{1}{164}, -\frac{3}{328}, \frac{3}{41}, -\frac{3}{328}, -\frac{1}{82}, -\frac{1}{82}, -\frac{5}{328})$ $- \frac{1}{328}\sqrt{498e^3} \otimes e_8 + \frac{1}{328}\sqrt{718e^2} \otimes e_6$	{145678, 15678, 3467, 367}
8421:14	$0, 0, 0, 0, \frac{76}{1451}\sqrt{51e^{12}}, \frac{19}{1451}\sqrt{906e^{13}}, \frac{114}{1451}\sqrt{5e^{15}},$ $\frac{38}{1451}\sqrt{113e^{17}} + \frac{38}{1451}\sqrt{219e^{25}}$	$(\frac{76}{1451}, \frac{152}{1451}, -\frac{285}{1451}, -\frac{285}{1451}, \frac{228}{1451}, -\frac{209}{1451}, \frac{304}{1451}, \frac{380}{1451})$ $+ \frac{19}{1451}\sqrt{906e^1} \otimes e_4 + \frac{38}{1451}\sqrt{415e^2} \otimes e_6$	{15678, 3467}
8421:14	$0, 0, 0, 0, \frac{23}{2111}\sqrt{894e^{12}}, \frac{23}{2111}\sqrt{1398e^{13}}, \frac{276}{2111}\sqrt{7e^{15}},$ $\frac{92}{2111}\sqrt{59e^{17}} + \frac{161}{2111}\sqrt{42e^{25}}$	$(\frac{46}{2111}, \frac{92}{2111}, -\frac{483}{2111}, \frac{759}{2111}, \frac{138}{2111}, -\frac{437}{2111}, \frac{184}{2111}, \frac{230}{2111})$ $+ \frac{1196}{2111}e^2 \otimes e_6 + \frac{23}{2111}\sqrt{1086e^4} \otimes e_8$	{15678, 3467}
8421:14	$0, 0, 0, 0, \frac{36}{1007}\sqrt{143e^{12}}, \frac{240}{1007}\sqrt{11e^{13}}, \frac{12}{1007}\sqrt{2167e^{15}},$ $\frac{132}{1007}\sqrt{11e^{17}} + \frac{12}{53}\sqrt{11e^{25}}$	$(-\frac{37}{1007}, -\frac{74}{1007}, \frac{607}{1007}, \frac{170}{1007}, -\frac{111}{1007}, \frac{30}{53}, -\frac{148}{1007}, -\frac{185}{1007})$ $+ \frac{36}{1007}\sqrt{1023e^3} \otimes e_8$	{123457, 12357, 2478, 278}
8421:15	$0, 0, 0, 0, \frac{34}{1617}\sqrt{319e^{12}}, \frac{34}{1617}\sqrt{670e^{13}}, \frac{34}{1617}\sqrt{83e^{25}},$ $\frac{34}{1617}\sqrt{74e^{15}} + \frac{34}{1617}\sqrt{462e^{27}}$	$(-\frac{34}{539}, -\frac{17}{539}, \frac{323}{1617}, \frac{799}{1617}, -\frac{51}{539}, \frac{221}{1617}, -\frac{68}{539}, -\frac{85}{539})$ $+ \frac{136}{1617}\sqrt{39e^4} \otimes e_6 + \frac{34}{1617}\sqrt{818e^3} \otimes e_8$	{12568, 134}
8421:15	$0, 0, 0, 0, \frac{14}{1453}\sqrt{57e^{12}}, \frac{14}{1453}\sqrt{682e^{13}}, \frac{14}{1453}\sqrt{533e^{25}},$ $\frac{28}{1453}\sqrt{134e^{15}} + \frac{28}{1453}\sqrt{138e^{27}}$	$(\frac{70}{1453}, \frac{35}{1453}, -\frac{133}{1453}, -\frac{231}{1453}, \frac{105}{1453}, -\frac{63}{1453}, \frac{140}{1453}, \frac{175}{1453})$ $+ \frac{14}{1453}\sqrt{390e^3} \otimes e_4 + \frac{28}{1453}\sqrt{226e^2} \otimes e_6$	{12358, 146}
8421:15	$0, 0, 0, 0, \frac{75}{1169}\sqrt{118e^{12}}, \frac{25}{1169}\sqrt{542e^{13}}, \frac{75}{1169}\sqrt{34e^{25}},$ $\frac{50}{1169}\sqrt{291e^{15}} + \frac{50}{1169}\sqrt{165e^{27}}$	$(\frac{150}{1169}, \frac{75}{1169}, -\frac{475}{1169}, \frac{300}{1169}, \frac{225}{1169}, -\frac{325}{1169}, \frac{300}{1169}, \frac{375}{1169})$ $+ \frac{25}{1169}\sqrt{1738e^1} \otimes e_3 + \frac{25}{1169}\sqrt{354e^4} \otimes e_6$	{234578, 347}
8421:15	$0, 0, 0, 0, \frac{6}{1025}\sqrt{9353e^{12}}, \frac{6}{1025}\sqrt{1194e^{13}}, \frac{6}{1025}\sqrt{8557e^{25}},$ $\frac{8}{1025}\sqrt{27462e^{15}} + \frac{8}{1025}\sqrt{6567e^{27}}$	$(\frac{78}{1025}, \frac{39}{1025}, \frac{23}{41}, -\frac{619}{1025}, \frac{117}{1025}, \frac{653}{1025}, \frac{156}{1025}, \frac{39}{205})$ $+ \frac{6}{1025}\sqrt{54526e^3} \otimes e_4$	{12358, 124568, 13, 146}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:15	$0, 0, 0, 0, \frac{1}{42}\sqrt{14}e^{12}, \frac{1}{42}\sqrt{238}e^{13}, \frac{1}{42}\sqrt{266}e^{25},$ $\frac{1}{6}\sqrt{2}e^{15} + \frac{1}{21}\sqrt{105}e^{27}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{21}\sqrt{119}e^3 \otimes e_8 + \frac{1}{42}\sqrt{546}e^2 \otimes e_4$	{1237, 145678}
8421:15	$0, 0, 0, 0, \frac{4}{87}\sqrt{29}e^{12}, \frac{1}{87}\sqrt{1102}e^{13}, \frac{2}{87}\sqrt{58}e^{25},$ $\frac{2}{87}\sqrt{319}e^{15} + \frac{2}{87}\sqrt{87}e^{27}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{87}\sqrt{2262}e^1 \otimes e_4 + \frac{2}{87}\sqrt{551}e^3 \otimes e_8$	{1268, 135}
8421:15	$0, 0, 0, 0, \frac{6}{257}\sqrt{47}e^{12}, \frac{2}{257}\sqrt{705}e^{13}, \frac{6}{257}\sqrt{94}e^{25},$ $\frac{4}{257}\sqrt{2397}e^{15} + \frac{16}{257}\sqrt{141}e^{27}$	$(-\frac{10}{257}, -\frac{5}{257}, \frac{55}{257}, 1, -\frac{15}{257}, \frac{45}{257}, -\frac{20}{257}, -\frac{25}{257})$ $+ \frac{6}{257}\sqrt{3243}e^4 \otimes e_8$	{1234567, 12457, 13678, 178}
8421:15	$0, 0, 0, 0, \frac{2}{305}\sqrt{15222}e^{12}, \frac{2}{305}\sqrt{9718}e^{13}, \frac{12}{305}\sqrt{129}e^{25},$ $\frac{2}{305}\sqrt{16770}e^{15} + \frac{2}{305}\sqrt{9718}e^{27}$	$(\frac{46}{305}, \frac{23}{305}, -\frac{126}{305}, \frac{33}{305}, \frac{69}{305}, -\frac{16}{61}, \frac{92}{305}, \frac{23}{61})$ $+ \frac{8}{305}\sqrt{1462}e^1 \otimes e_3$	{234578, 23578, 347, 37}
8421:15	$0, 0, 0, 0, \frac{11}{359}\sqrt{303}e^{12}, \frac{11}{359}\sqrt{141}e^{13}, \frac{11}{359}\sqrt{51}e^{25},$ $\frac{11}{359}\sqrt{195}e^{15} + \frac{55}{359}\sqrt{2}e^{27}$	$(\frac{44}{359}, \frac{22}{359}, -\frac{77}{359}, -\frac{99}{359}, \frac{66}{359}, -\frac{33}{359}, \frac{88}{359}, \frac{110}{359})$ $+ \frac{11}{359}\sqrt{273}e^2 \otimes e_4 + \frac{11}{359}\sqrt{370}e^1 \otimes e_3$	{1278, 1457}
8421:15	$0, 0, 0, 0, \frac{10}{241}\sqrt{3}e^{12}, \frac{20}{241}\sqrt{22}e^{13}, \frac{10}{241}\sqrt{89}e^{25},$ $\frac{20}{241}\sqrt{17}e^{15} + \frac{10}{241}\sqrt{102}e^{27}$	$(\frac{10}{241}, \frac{5}{241}, -\frac{55}{241}, \frac{75}{241}, \frac{15}{241}, -\frac{45}{241}, \frac{20}{241}, \frac{25}{241})$ $+ \frac{10}{241}\sqrt{166}e^2 \otimes e_6 + \frac{10}{241}\sqrt{42}e^4 \otimes e_8$	{12347, 15678}
8421:15	$0, 0, 0, 0, \frac{6}{1025}\sqrt{9353}e^{12}, \frac{6}{205}\sqrt{1194}e^{13}, \frac{6}{1025}\sqrt{8557}e^{25},$ $\frac{4}{1025}\sqrt{27462}e^{15} + \frac{6}{1025}\sqrt{6567}e^{27}$	$(\frac{78}{1025}, \frac{39}{1025}, -\frac{247}{1025}, 1, \frac{117}{1025}, -\frac{169}{1025}, \frac{156}{1025}, \frac{39}{205})$ $+ \frac{6}{1025}\sqrt{54526}e^4 \otimes e_6$	{123458, 12568, 134, 16}
8421:15	$0, 0, 0, 0, \frac{34}{1571}\sqrt{93}e^{12}, \frac{153}{1571}\sqrt{14}e^{13}, \frac{34}{1571}\sqrt{254}e^{25},$ $\frac{34}{1571}\sqrt{158}e^{15} + \frac{34}{1571}\sqrt{223}e^{27}$	$(\frac{136}{1571}, \frac{68}{1571}, -\frac{357}{1571}, -\frac{153}{1571}, \frac{204}{1571}, -\frac{221}{1571}, \frac{1571}{1571}, \frac{340}{1571})$ $+ \frac{187}{1571}\sqrt{6}e^1 \otimes e_4 + \frac{34}{1571}\sqrt{499}e^2 \otimes e_6$	{1237, 15678}
8421:15	$0, 0, 0, 0, \frac{24}{511}\sqrt{274}e^{12}, \frac{2}{511}\sqrt{7809}e^{13}, \frac{3}{511}\sqrt{3562}e^{25},$ $\frac{1}{511}\sqrt{168510}e^{15} + \frac{1}{511}\sqrt{84666}e^{27}$	$(\frac{76}{511}, \frac{38}{511}, \frac{50}{511}, -\frac{335}{511}, \frac{114}{511}, \frac{18}{511}, \frac{152}{511}, \frac{190}{511})$ $+ \frac{3}{511}\sqrt{38634}e^1 \otimes e_4$	{2345678, 24578, 3467, 47}
8421:15	$0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{38}e^{13}, \frac{4}{11}\sqrt{2}e^{25},$ $\frac{2}{11}\sqrt{11}e^{15} + \frac{1}{11}\sqrt{38}e^{27}$	$(0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0)$ $+ \frac{1}{11}\sqrt{30}e^1 \otimes e_3 + \frac{1}{11}\sqrt{46}e^2 \otimes e_6$	{123458, 12358}
8421:15	$0, 0, 0, 0, \frac{18}{269}\sqrt{62}e^{12}, \frac{2}{269}\sqrt{1581}e^{13}, \frac{36}{269}\sqrt{31}e^{25},$ $\frac{2}{269}\sqrt{5115}e^{15} + \frac{6}{269}\sqrt{930}e^{27}$	$(\frac{34}{269}, \frac{17}{269}, \frac{33}{269}, -\frac{169}{269}, \frac{51}{269}, \frac{67}{269}, \frac{68}{269}, \frac{85}{269})$ $+ \frac{6}{269}\sqrt{2263}e^2 \otimes e_4$	{1237, 1267, 134578, 145678}
8421:15	$0, 0, 0, 0, \frac{6}{359}\sqrt{47}e^{12}, \frac{2}{359}\sqrt{7802}e^{13}, \frac{26}{359}\sqrt{47}e^{25},$ $\frac{2}{359}\sqrt{1739}e^{15} + \frac{2}{359}\sqrt{7802}e^{27}$	$(\frac{30}{359}, \frac{15}{359}, -\frac{109}{359}, \frac{57}{359}, \frac{45}{359}, -\frac{79}{359}, \frac{60}{359}, \frac{75}{359})$ $+ \frac{2}{359}\sqrt{14194}e^2 \otimes e_6$	{12347, 1237, 145678, 15678}
8421:15	$0, 0, 0, 0, \frac{2}{27}\sqrt{55}e^{12}, \frac{2}{27}\sqrt{110}e^{13}, \frac{2}{27}\sqrt{11}e^{25},$ $\frac{2}{27}\sqrt{22}e^{15} + \frac{2}{27}\sqrt{110}e^{27}$	$(-\frac{2}{27}, -\frac{1}{27}, \frac{17}{27}, \frac{5}{27}, -\frac{1}{9}, \frac{5}{9}, -\frac{4}{27}, -\frac{5}{27})$ $+ \frac{22}{27}\sqrt{2}e^3 \otimes e_8$	{23467, 2367, 4578, 578}
8421:15	$0, 0, 0, 0, \frac{156}{581}\sqrt{3}e^{12}, \frac{13}{581}\sqrt{321}e^{13}, \frac{13}{581}\sqrt{177}e^{25},$ $\frac{13}{581}\sqrt{618}e^{15} + \frac{13}{581}\sqrt{194}e^{27}$	$(\frac{26}{581}, \frac{13}{581}, -\frac{143}{581}, \frac{234}{581}, \frac{39}{581}, -\frac{117}{581}, \frac{52}{581}, \frac{65}{581})$ $+ \frac{13}{581}\sqrt{381}e^4 \otimes e_8 + \frac{13}{581}\sqrt{694}e^1 \otimes e_3$	{23578, 347}
8421:16	$0, 0, 0, 0, \frac{46}{1233}\sqrt{127}e^{12}, \frac{92}{1233}\sqrt{51}e^{13}, \frac{322}{1233}\sqrt{7}e^{15},$ $\frac{46}{137}\sqrt{5}e^{17} + \frac{46}{1233}\sqrt{59}e^{36}$	$(\frac{136}{411}, -\frac{650}{1233}, \frac{83}{1233}, \frac{76}{411}, -\frac{242}{1233}, \frac{491}{1233}, \frac{166}{1233}, \frac{574}{1233})$ $+ \frac{46}{1233}\sqrt{1005}e^1 \otimes e_2$	{1347, 137, 1467, 167}
8421:16	$0, 0, 0, 0, \frac{38}{1773}\sqrt{157}e^{12}, \frac{38}{1773}\sqrt{114}e^{13}, \frac{38}{1773}\sqrt{319}e^{15},$ $\frac{38}{197}\sqrt{7}e^{17} + \frac{38}{1773}\sqrt{115}e^{36}$	$(\frac{76}{591}, -\frac{494}{1773}, -\frac{19}{1773}, \frac{304}{591}, -\frac{266}{1773}, \frac{209}{1773}, -\frac{38}{1773}, \frac{190}{1773})$ $+ \frac{38}{1773}\sqrt{861}e^1 \otimes e_2 + \frac{38}{591}\sqrt{78}e^4 \otimes e_8$	{2346, 24}
8421:16	$0, 0, 0, 0, \frac{1}{649}\sqrt{145722}e^{12}, \frac{7}{649}\sqrt{978}e^{13}, \frac{20}{649}\sqrt{489}e^{15},$ $\frac{3}{649}\sqrt{16626}e^{17} + \frac{4}{649}\sqrt{489}e^{36}$	$(\frac{98}{649}, -\frac{20}{649}, \frac{8}{59}, -\frac{391}{649}, \frac{78}{649}, \frac{186}{649}, \frac{16}{59}, \frac{274}{649})$ $+ \frac{4}{649}\sqrt{31785}e^1 \otimes e_4$	{1237, 1267, 2345678, 24578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:16	$0, 0, 0, 0, \frac{6}{1277}\sqrt{24013e^{12}}, \frac{354}{1277}\sqrt{3e^{13}}, \frac{6}{1277}\sqrt{8437e^{15}},$ $\frac{6}{1277}\sqrt{13747e^{17}} + \frac{12}{1277}\sqrt{5133e^{36}}$	$(-\frac{354}{1277}, \frac{870}{1277}, \frac{81}{1277}, \frac{252}{1277}, \frac{516}{1277}, -\frac{273}{1277}, \frac{162}{1277}, -\frac{192}{1277})$ $+\frac{30}{1277}\sqrt{2419e^2} \otimes e_8$	{123467, 12367, 1247, 127}
8421:16	$0, 0, 0, 0, \frac{130}{617}\sqrt{3e^{12}}, \frac{50}{617}\sqrt{3e^{13}}, \frac{10}{617}\sqrt{381e^{15}},$ $\frac{90}{617}\sqrt{5e^{17}} + \frac{20}{617}\sqrt{51e^{36}}$	$(-\frac{50}{617}, \frac{170}{617}, \frac{35}{617}, -\frac{200}{617}, \frac{120}{617}, -\frac{15}{617}, \frac{70}{617}, \frac{20}{617})$ $+\frac{10}{617}\sqrt{834e^1} \otimes e_4 + \frac{30}{617}\sqrt{87e^2} \otimes e_8$	{12367, 127}
8421:16	$0, 0, 0, 0, \frac{44}{293}\sqrt{3e^{12}}, \frac{11}{879}\sqrt{1698e^{13}}, \frac{11}{879}\sqrt{390e^{15}},$ $\frac{11}{879}\sqrt{222e^{17}} + \frac{22}{293}\sqrt{26e^{36}}$	$(\frac{55}{293}, -\frac{66}{293}, \frac{22}{293}, -\frac{99}{293}, -\frac{11}{293}, \frac{77}{293}, \frac{44}{293}, \frac{99}{293})$ $+\frac{11}{879}\sqrt{2406e^3} \otimes e_4 + \frac{22}{879}\sqrt{561e^1} \otimes e_2$	{236, 24}
8421:16	$0, 0, 0, 0, \frac{1}{27}\sqrt{22e^{12}}, \frac{4}{27}\sqrt{33e^{13}}, \frac{1}{27}\sqrt{110e^{15}},$ $\frac{2}{27}\sqrt{66e^{17}} + \frac{22}{27}e^{36}$	$(\frac{1}{18}, \frac{5}{27}, \frac{4}{27}, -\frac{2}{3}, \frac{13}{54}, \frac{11}{54}, \frac{8}{27}, \frac{19}{54})$ $+\frac{1}{9}\sqrt{110e^3} \otimes e_4$	{123578, 1245678, 2367, 247}
8421:16	$0, 0, 0, 0, \frac{2}{621}\sqrt{1342e^{12}}, \frac{2}{621}\sqrt{10065e^{13}}, \frac{2}{621}\sqrt{17446e^{15}},$ $\frac{4}{621}\sqrt{14091e^{17}} + \frac{1}{621}\sqrt{202642e^{36}}$	$(-\frac{20}{207}, \frac{130}{621}, \frac{5}{621}, 1, \frac{70}{621}, -\frac{55}{621}, \frac{10}{621}, -\frac{50}{621})$ $+\frac{11}{207}\sqrt{610e^4} \otimes e_8$	{13467, 147, 3578, 5678}
8421:16	$0, 0, 0, 0, \frac{66}{2741}\sqrt{193e^{12}}, \frac{33}{2741}\sqrt{870e^{13}}, \frac{33}{2741}\sqrt{62e^{15}},$ $\frac{33}{2741}\sqrt{170e^{17}} + \frac{66}{2741}\sqrt{471e^{36}}$	$(-\frac{363}{2741}, \frac{1122}{2741}, \frac{198}{2741}, -\frac{891}{2741}, \frac{759}{2741}, -\frac{165}{2741}, \frac{396}{2741}, \frac{33}{2741})$ $+\frac{66}{2741}\sqrt{583e^2} \otimes e_8 + \frac{99}{2741}\sqrt{274e^3} \otimes e_4$	{13578, 145678}
8421:16	$0, 0, 0, 0, \frac{2}{61}\sqrt{851e^{12}}, \frac{4}{61}\sqrt{37e^{13}}, \frac{1}{61}\sqrt{814e^{15}},$ $\frac{4}{61}\sqrt{37e^{17}} + \frac{1}{61}\sqrt{814e^{36}}$	$(-\frac{8}{61}, \frac{38}{61}, \frac{11}{61}, -\frac{36}{61}, \frac{30}{61}, \frac{3}{61}, \frac{22}{61}, \frac{14}{61})$ $+\frac{1}{61}\sqrt{7178e^2} \otimes e_4$	{13456, 145, 348, 468}
8421:17	$0, 0, 0, 0, \frac{13}{51}\sqrt{6e^{12}}, \frac{1}{51}\sqrt{78e^{13}}, \frac{1}{51}\sqrt{1326e^{25}},$ $\frac{13}{51}\sqrt{6e^{27}} + \frac{1}{51}\sqrt{78e^{36}}$	$(-\frac{2}{51}, \frac{8}{51}, \frac{4}{17}, -\frac{31}{51}, \frac{2}{17}, \frac{10}{51}, \frac{14}{51}, \frac{22}{51})$ $+\frac{1}{51}\sqrt{3198e^2} \otimes e_4$	{1345678, 14578, 34, 46}
8421:17	$0, 0, 0, 0, \frac{2}{377}\sqrt{20301e^{12}}, \frac{4}{377}\sqrt{4623e^{13}}, \frac{1}{377}\sqrt{21306e^{25}},$ $\frac{6}{377}\sqrt{402e^{27}} + \frac{1}{377}\sqrt{26130e^{36}}$	$(\frac{184}{377}, -\frac{30}{377}, -\frac{45}{377}, -\frac{218}{377}, \frac{154}{377}, \frac{139}{377}, \frac{124}{377}, \frac{94}{377})$ $+\frac{1}{377}\sqrt{239190e^1} \otimes e_4$	{12378, 12678, 23456, 245}
8421:17	$0, 0, 0, 0, \frac{2}{301}\sqrt{1507e^{12}}, \frac{4}{301}\sqrt{3562e^{13}}, \frac{4}{301}\sqrt{685e^{25}},$ $\frac{2}{301}\sqrt{1507e^{27}} + \frac{4}{301}\sqrt{3562e^{36}}$	$(-\frac{33}{301}, \frac{62}{301}, \frac{93}{301}, -\frac{181}{301}, \frac{29}{301}, \frac{60}{301}, \frac{13}{43}, \frac{153}{301})$ $+\frac{2}{301}\sqrt{33017e^3} \otimes e_4$	{138, 1468, 3567, 457}
8421:17	$0, 0, 0, 0, \frac{6}{377}\sqrt{402e^{12}}, \frac{1}{377}\sqrt{26130e^{13}}, \frac{1}{377}\sqrt{21306e^{25}},$ $\frac{2}{377}\sqrt{20301e^{27}} + \frac{4}{377}\sqrt{4623e^{36}}$	$(\frac{5}{29}, -\frac{30}{377}, -\frac{45}{377}, 1, \frac{35}{377}, \frac{20}{377}, \frac{5}{377}, -\frac{25}{377})$ $+\frac{1}{377}\sqrt{239190e^4} \otimes e_8$	{12358, 12568, 23467, 247}
8421:18	$0, 0, 0, 0, \frac{94}{1901}\sqrt{71e^{12}}, \frac{141}{1901}\sqrt{210e^{13}}, \frac{47}{1901}\sqrt{662e^{15}},$ $\frac{47}{1901}\sqrt{390e^{17}} + \frac{94}{1901}\sqrt{186e^{25}} + \frac{94}{1901}\sqrt{133e^{34}}$	$(\frac{47}{1901}, \frac{94}{1901}, \frac{1222}{1901}, -\frac{987}{1901}, \frac{141}{1901}, \frac{1269}{1901}, \frac{188}{1901}, \frac{235}{1901})$ $+\frac{47}{1901}\sqrt{3154e^3} \otimes e_4$	{13, 146}
8421:18	$0, 0, 0, 0, \frac{11}{461}\sqrt{246e^{12}}, \frac{55}{461}\sqrt{22e^{13}}, \frac{11}{461}\sqrt{365e^{15}},$ $\frac{11}{461}\sqrt{366e^{17}} + \frac{22}{461}\sqrt{158e^{25}} + \frac{11}{461}\sqrt{3e^{34}}$	$(\frac{11}{461}, \frac{22}{461}, -\frac{110}{461}, \frac{165}{461}, \frac{33}{461}, -\frac{99}{461}, \frac{44}{461}, \frac{55}{461})$ $+\frac{11}{461}\sqrt{835e^2} \otimes e_6$	{15678, 367}
8421:19	$0, 0, 0, 0, \frac{47}{2181}\sqrt{302e^{12}}, \frac{94}{2181}\sqrt{365e^{13}}, \frac{47}{2181}\sqrt{574e^{25}},$ $\frac{329}{727}\sqrt{2e^{15}} + \frac{47}{2181}\sqrt{286e^{27}} + \frac{47}{2181}\sqrt{1166e^{34}}$	$(\frac{94}{727}, \frac{47}{727}, -\frac{893}{2181}, \frac{1598}{2181}, \frac{141}{727}, -\frac{611}{2181}, \frac{188}{727}, \frac{235}{727})$ $+\frac{47}{2181}\sqrt{3522e^4} \otimes e_6$	{134, 16}
8421:19	$0, 0, 0, 0, \frac{49}{111}\sqrt{2e^{12}}, \frac{245}{2109}\sqrt{82e^{13}}, \frac{98}{2109}\sqrt{127e^{25}},$ $\frac{98}{2109}\sqrt{183e^{15}} + \frac{98}{2109}\sqrt{227e^{27}} + \frac{49}{2109}\sqrt{478e^{34}}$	$(\frac{98}{2109}, \frac{49}{2109}, \frac{441}{703}, -\frac{1078}{2109}, \frac{49}{703}, \frac{1421}{2109}, \frac{196}{2109}, \frac{245}{2109})$ $+\frac{49}{2109}\sqrt{3426e^3} \otimes e_4$	{13, 146}
8421:19	$0, 0, 0, 0, \frac{7}{733}\sqrt{102e^{12}}, \frac{196}{733}\sqrt{3e^{13}}, \frac{28}{733}\sqrt{129e^{25}},$ $\frac{7}{733}\sqrt{1794e^{15}} + \frac{196}{733}\sqrt{3e^{27}} + \frac{7}{733}\sqrt{762e^{34}}$	$(\frac{28}{733}, \frac{14}{733}, -\frac{161}{733}, \frac{231}{733}, \frac{42}{733}, -\frac{133}{733}, \frac{56}{733}, \frac{70}{733})$ $+\frac{7}{733}\sqrt{3774e^2} \otimes e_6$	{123458, 146}
8421:20	$0, 0, 0, 0, \frac{3}{47}\sqrt{66e^{12}}, \frac{1}{47}\sqrt{858e^{13}}, \frac{12}{47}\sqrt{11e^{24}}, \frac{4}{47}\sqrt{33e^{15}},$ $\frac{12}{47}\sqrt{11e^{17}} + \frac{3}{47}\sqrt{22e^{25}}$	$(-\frac{2}{47}, -\frac{4}{47}, \frac{21}{47}, \frac{23}{47}, -\frac{6}{47}, \frac{19}{47}, -\frac{8}{47}, -\frac{10}{47})$ $+\frac{3}{47}\sqrt{286e^4} \otimes e_8$	{123568, 234}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:20	$0, 0, 0, 0, \frac{15}{119}\sqrt{2}e^{12}, \frac{15}{119}\sqrt{46}e^{13} + \frac{5}{119}\sqrt{237}e^{24}, \frac{45}{119}\sqrt{3}e^{15},$ $\frac{5}{119}\sqrt{30}e^{17} + \frac{10}{119}\sqrt{102}e^{25}$	$(-\frac{5}{119}, -\frac{10}{119}, \frac{50}{119}, \frac{55}{119}, -\frac{15}{119}, \frac{45}{119}, -\frac{20}{119}, -\frac{25}{119})$ $+ \frac{15}{119}\sqrt{69}e^3 \otimes e_8$	{134, 458}
8421:20	$0, 0, 0, 0, \frac{9}{125}\sqrt{17}e^{12}, \frac{3}{125}\sqrt{438}e^{13} + \frac{3}{125}\sqrt{255}e^{24}, \frac{3}{25}\sqrt{21}e^{15},$ $\frac{3}{125}\sqrt{474}e^{17} + \frac{9}{125}\sqrt{43}e^{25}$	$(\frac{6}{125}, \frac{12}{125}, -\frac{21}{125}, -\frac{27}{125}, \frac{18}{125}, -\frac{3}{25}, \frac{24}{125}, \frac{6}{25})$ $+ \frac{9}{125}\sqrt{73}e^1 \otimes e_3$	{1247, 234578}
8421:20	$0, 0, 0, 0, \frac{3}{14}\sqrt{11}e^{12}, \frac{1}{14}\sqrt{51}e^{13} + \frac{3}{14}\sqrt{10}e^{24}, \frac{1}{14}\sqrt{57}e^{15},$ $\frac{3}{14}\sqrt{10}e^{17} + \frac{3}{14}\sqrt{15}e^{25}$	$(\frac{1}{14}, \frac{1}{7}, -\frac{3}{14}, -\frac{2}{7}, \frac{3}{14}, -\frac{1}{7}, \frac{2}{7}, \frac{5}{14})$ $+ \frac{3}{14}\sqrt{17}e^2 \otimes e_4$	{134578, 47}
8421:22	$0, 0, 0, 0, \frac{30}{89}\sqrt{3}e^{12}, \frac{6}{89}\sqrt{55}e^{13}, \frac{6}{89}\sqrt{30}e^{25},$ $\frac{6}{89}\sqrt{130}e^{16} + \frac{6}{89}\sqrt{130}e^{27}$	$(-\frac{4}{89}, \frac{1}{89}, \frac{7}{89}, 1, -\frac{3}{89}, \frac{3}{89}, -\frac{2}{89}, -\frac{1}{89})$ $+ \frac{6}{89}\sqrt{355}e^4 \otimes e_8$	{12358, 146, 247, 35678}
8421:22	$0, 0, 0, 0, \frac{94}{475}\sqrt{11}e^{12}, \frac{2}{475}\sqrt{3102}e^{13}, \frac{2}{285}\sqrt{9823}e^{25},$ $\frac{2}{1425}\sqrt{96162}e^{16} + \frac{44}{475}\sqrt{47}e^{27}$	$(\frac{26}{475}, \frac{131}{1425}, \frac{21}{95}, -\frac{301}{475}, \frac{11}{75}, \frac{131}{475}, \frac{68}{285}, \frac{157}{475})$ $+ \frac{4}{1425}\sqrt{150447}e^2 \otimes e_4$	{127, 1345678, 2358, 46}
8421:22	$0, 0, 0, 0, \frac{14}{289}\sqrt{123}e^{12}, \frac{8}{289}\sqrt{615}e^{13}, \frac{2}{289}\sqrt{2337}e^{25},$ $\frac{2}{289}\sqrt{10947}e^{16} + \frac{18}{289}\sqrt{41}e^{27}$	$(\frac{71}{289}, \frac{16}{289}, -\frac{23}{289}, \frac{175}{289}, \frac{87}{289}, \frac{48}{289}, \frac{103}{289}, \frac{7}{17})$ $+ \frac{4}{289}\sqrt{7134}e^1 \otimes e_4$	{12378, 1567, 245, 3468}
8421:22	$0, 0, 0, 0, \frac{33}{233}\sqrt{3}e^{12}, \frac{11}{466}\sqrt{42}e^{13}, \frac{11}{466}\sqrt{78}e^{25},$ $\frac{33}{233}\sqrt{15}e^{16} + \frac{11}{233}\sqrt{34}e^{27}$	$(\frac{44}{233}, -\frac{11}{233}, -\frac{77}{233}, \frac{132}{233}, \frac{33}{233}, -\frac{33}{233}, \frac{22}{233}, \frac{11}{233})$ $+ \frac{11}{233}\sqrt{202}e^1 \otimes e_3 + \frac{11}{466}\sqrt{822}e^4 \otimes e_8$	{12467, 23568}
8421:22	$0, 0, 0, 0, \frac{444}{3449}\sqrt{15}e^{12}, \frac{37}{3449}\sqrt{438}e^{13}, \frac{814}{3449}\sqrt{3}e^{25},$ $\frac{37}{3449}\sqrt{186}e^{16} + \frac{37}{3449}\sqrt{670}e^{27}$	$(\frac{740}{3449}, \frac{37}{3449}, -\frac{629}{3449}, -\frac{1332}{3449}, \frac{777}{3449}, \frac{111}{3449}, \frac{814}{3449}, \frac{851}{3449})$ $+ \frac{111}{3449}\sqrt{390}e^2 \otimes e_4 + \frac{37}{3449}\sqrt{2542}e^1 \otimes e_3$	{14578, 34}
8421:22	$0, 0, 0, 0, \frac{2}{353}\sqrt{7881}e^{12}, \frac{2}{353}\sqrt{27690}e^{13}, \frac{10}{353}\sqrt{213}e^{25},$ $\frac{4}{353}\sqrt{1491}e^{16} + \frac{4}{353}\sqrt{1491}e^{27}$	$(-\frac{46}{353}, \frac{59}{353}, \frac{223}{353}, -\frac{203}{353}, \frac{13}{353}, \frac{177}{353}, \frac{72}{353}, \frac{131}{353})$ $+ \frac{2}{353}\sqrt{59214}e^3 \otimes e_4$	{12358, 146, 247, 35678}
8421:22	$0, 0, 0, 0, \frac{18}{1373}\sqrt{3595}e^{12}, \frac{8}{1373}\sqrt{2157}e^{13}, \frac{2}{1373}\sqrt{62553}e^{25},$ $\frac{2}{1373}\sqrt{273939}e^{16} + \frac{10}{1373}\sqrt{5033}e^{27}$	$(\frac{635}{1373}, -\frac{56}{1373}, -\frac{803}{1373}, \frac{261}{1373}, \frac{579}{1373}, -\frac{168}{1373}, \frac{523}{1373}, \frac{467}{1373})$ $+ \frac{4}{1373}\sqrt{199882}e^1 \otimes e_3$	{12478, 1278, 2345, 235}
8421:23	$0, 0, 0, 0, \frac{1}{14}\sqrt{33}e^{12}, \frac{1}{28}\sqrt{30}e^{34}, \frac{1}{28}\sqrt{30}e^{15},$ $\frac{1}{14}\sqrt{6}e^{17} + \frac{3}{14}\sqrt{6}e^{36}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{1}{28}\sqrt{330}e^2 \otimes e_8 + \frac{3}{14}\sqrt{7}e^3 \otimes e_4$	{12367, 14568}
8421:23	$0, 0, 0, 0, \frac{4}{81}\sqrt{7}e^{12}, \frac{1}{27}\sqrt{42}e^{34}, \frac{2}{81}\sqrt{427}e^{15},$ $\frac{4}{81}\sqrt{30}e^{17} + \frac{1}{81}\sqrt{826}e^{36}$	$(\frac{7}{27}, -\frac{28}{81}, \frac{28}{81}, -\frac{7}{27}, -\frac{7}{81}, \frac{7}{81}, \frac{14}{81}, \frac{35}{81})$ $+ \frac{1}{81}\sqrt{2814}e^3 \otimes e_4 + \frac{1}{81}\sqrt{3990}e^1 \otimes e_2$	{1367, 236}
8421:23	$0, 0, 0, 0, \frac{2}{555}\sqrt{8283}e^{12}, \frac{4}{185}\sqrt{251}e^{34}, \frac{2}{555}\sqrt{46435}e^{15},$ $\frac{2}{185}\sqrt{5773}e^{17} + \frac{2}{555}\sqrt{8283}e^{36}$	$(\frac{196}{555}, -\frac{102}{185}, \frac{7}{37}, \frac{24}{185}, -\frac{22}{111}, \frac{59}{185}, \frac{86}{555}, \frac{94}{185})$ $+ \frac{2}{555}\sqrt{112197}e^1 \otimes e_2$	{1347, 1467, 234, 246}
8421:23	$0, 0, 0, 0, \frac{2}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}\sqrt{6}e^{15},$ $\frac{2}{7}\sqrt{3}e^{17} + \frac{2}{7}\sqrt{6}e^{36}$	$(-\frac{2}{7}, \frac{5}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{7}\sqrt{66}e^2 \otimes e_8$	{12367, 127, 13458, 14568}
8421:23	$0, 0, 0, 0, \frac{2}{111}\sqrt{737}e^{12}, \frac{4}{111}\sqrt{134}e^{34}, \frac{4}{111}\sqrt{134}e^{15},$ $\frac{2}{37}\sqrt{67}e^{17} + \frac{4}{111}\sqrt{670}e^{36}$	$(\frac{14}{111}, \frac{13}{111}, \frac{21}{37}, -\frac{71}{111}, \frac{9}{37}, -\frac{8}{111}, \frac{41}{111}, \frac{55}{111})$ $+ \frac{2}{111}\sqrt{5829}e^3 \otimes e_4$	{124678, 1356, 23567, 468}
8421:28	$0, 0, 0, 0, \frac{7}{41}\sqrt{134}e^{12}, \frac{7}{41}\sqrt{7}e^{13}, \frac{7}{82}\sqrt{31}e^{15},$ $\frac{14}{41}e^{17} + \frac{7}{82}\sqrt{30}e^{24} + \frac{7}{82}\sqrt{37}e^{36}$	$(-\frac{7}{41}, \frac{28}{41}, \frac{7}{41}, -\frac{21}{41}, \frac{21}{41}, 0, \frac{14}{41}, \frac{7}{41})$ $+ \frac{7}{82}\sqrt{263}e^2 \otimes e_4$	{13456, 145}
8421:29	$0, 0, 0, 0, \frac{14}{97}\sqrt{29}e^{12}, \frac{28}{97}\sqrt{7}e^{13}, \frac{7}{97}\sqrt{26}e^{25},$ $\frac{56}{97}e^{14} + \frac{14}{97}\sqrt{2}e^{27} + \frac{35}{97}\sqrt{2}e^{36}$	$(\frac{56}{97}, -\frac{14}{97}, -\frac{21}{97}, -\frac{42}{97}, \frac{42}{97}, \frac{35}{97}, \frac{28}{97}, \frac{14}{97})$ $+ \frac{7}{97}\sqrt{310}e^1 \otimes e_4$	{23456, 245}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8421:30	$0, 0, 0, 0, \frac{9}{211}\sqrt{222}e^{12}, \frac{9}{211}\sqrt{570}e^{13}, \frac{18}{211}\sqrt{21}e^{25},$ $\frac{9}{211}\sqrt{174}e^{16} + \frac{9}{211}\sqrt{174}e^{27} + \frac{9}{211}\sqrt{222}e^{34}$	$(-\frac{45}{211}, \frac{36}{211}, \frac{153}{211}, -\frac{90}{211}, -\frac{9}{211}, \frac{108}{211}, \frac{27}{211}, \frac{63}{211})$ $+ \frac{117}{211}\sqrt{6}e^3 \otimes e_4$	{146, 247}
8421:38	$0, 0, 0, 0, \frac{22}{301}\sqrt{113}e^{12}, \frac{22}{301}\sqrt{22}e^{13}, \frac{11}{301}\sqrt{94}e^{25},$ $\frac{22}{301}\sqrt{122}e^{15} + \frac{44}{301}\sqrt{15}e^{27} + \frac{11}{301}\sqrt{14}e^{36}$	$(\frac{44}{301}, \frac{22}{301}, \frac{33}{301}, -\frac{198}{301}, \frac{66}{301}, \frac{11}{301}, \frac{88}{301}, \frac{110}{301})$ $+ \frac{11}{301}\sqrt{998}e^1 \otimes e_4$	{2345678, 24578}
8421:38	$0, 0, 0, 0, \frac{7}{213}\sqrt{258}e^{12}, \frac{14}{213}\sqrt{21}e^{13}, \frac{14}{213}\sqrt{129}e^{25},$ $\frac{7}{213}\sqrt{30}e^{15} + \frac{14}{213}\sqrt{105}e^{27} + \frac{7}{213}\sqrt{30}e^{36}$	$(\frac{28}{213}, \frac{14}{213}, \frac{7}{213}, -\frac{133}{213}, \frac{14}{213}, \frac{49}{213}, \frac{56}{213}, \frac{70}{213})$ $+ \frac{7}{213}\sqrt{1038}e^2 \otimes e_4$	{134578, 145678}
8421:38	$0, 0, 0, 0, \frac{172}{2481}\sqrt{38}e^{12}, \frac{86}{2481}\sqrt{595}e^{13}, \frac{86}{2481}\sqrt{205}e^{25},$ $\frac{43}{2481}\sqrt{1570}e^{15} + \frac{43}{2481}\sqrt{334}e^{27} + \frac{43}{2481}\sqrt{2066}e^{36}$	$(\frac{344}{2481}, \frac{172}{2481}, \frac{86}{2481}, -\frac{1591}{2481}, \frac{172}{2481}, \frac{602}{2481}, \frac{688}{2481}, \frac{860}{2481})$ $+ \frac{86}{2481}\sqrt{1018}e^3 \otimes e_4$	{12358, 124568}
8421:43	$0, 0, 0, 0, \frac{13}{141}\sqrt{26}e^{12}, \frac{26}{141}\sqrt{5}e^{34}, \frac{13}{141}\sqrt{26}e^{15},$ $\frac{13}{47}\sqrt{2}e^{17} + \frac{13}{47}\sqrt{2}e^{25} + \frac{13}{141}\sqrt{106}e^{36}$	$(\frac{13}{141}, \frac{26}{141}, \frac{26}{47}, -\frac{91}{141}, \frac{13}{47}, -\frac{13}{141}, \frac{52}{141}, \frac{65}{141})$ $+ \frac{13}{141}\sqrt{222}e^3 \otimes e_4$	{1356, 468}
842:1	$0, 0, 0, 0, \frac{6}{13}\sqrt{3}e^{12}, \frac{2}{13}\sqrt{3}e^{13}, \frac{2}{13}\sqrt{3}e^{15}, \frac{6}{13}\sqrt{3}e^{25}$	$(-\frac{1}{13}, \frac{4}{13}, \frac{3}{13}, -\frac{8}{13}, \frac{3}{13}, \frac{2}{13}, \frac{2}{13}, \frac{7}{13})$ $+ \frac{6}{13}\sqrt{7}e^2 \otimes e_4$	{12368, 128, 1345678, 14578, 235, 256, 347, 467}
842:1	$0, 0, 0, 0, \frac{2}{339}\sqrt{2059}e^{12}, \frac{58}{339}\sqrt{5}e^{13}, \frac{2}{339}\sqrt{3219}e^{15}, \frac{2}{339}\sqrt{7627}e^{25}$	$(-\frac{5}{113}, \frac{4}{113}, \frac{125}{339}, -\frac{104}{339}, -\frac{1}{113}, \frac{110}{339}, -\frac{6}{113}, \frac{3}{113})$ $+ \frac{16}{339}\sqrt{145}e^3 \otimes e_8 + \frac{2}{339}\sqrt{8207}e^2 \otimes e_4$	{1268, 145678, 2356, 3467}
842:1	$0, 0, 0, 0, \frac{14}{507}\sqrt{87}e^{12}, \frac{2}{507}\sqrt{15834}e^{13}, \frac{4}{507}\sqrt{1914}e^{15}, \frac{2}{507}\sqrt{12093}e^{25}$	$(-\frac{86}{507}, \frac{47}{169}, \frac{53}{507}, -\frac{121}{507}, \frac{55}{169}, -\frac{11}{507}, -\frac{31}{507}, \frac{196}{507})$ $+ \frac{2}{507}\sqrt{15486}e^3 \otimes e_4 + \frac{8}{507}\sqrt{1479}e^2 \otimes e_6$	{1238, 145678, 245, 367}
842:1	$0, 0, 0, 0, \frac{2}{31}\sqrt{38}e^{12}, \frac{4}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{57}e^{15}, \frac{2}{31}\sqrt{57}e^{25}$	$(-\frac{1}{31}, \frac{5}{31}, \frac{19}{31}, -\frac{19}{31}, \frac{4}{31}, \frac{18}{31}, \frac{3}{31}, \frac{9}{31})$ $+ \frac{10}{31}\sqrt{19}e^3 \otimes e_4$	{12357, 124567, 13, 146, 23678, 2478, 3568, 458}
842:1	$0, 0, 0, 0, \frac{3}{679}\sqrt{898}e^{12}, \frac{3}{679}\sqrt{11674}e^{13}, \frac{2}{679}\sqrt{13919}e^{15}, \frac{1}{679}\sqrt{90698}e^{25}$	$(-\frac{80}{679}, -\frac{2}{679}, \frac{41}{97}, \frac{365}{679}, -\frac{82}{679}, \frac{207}{679}, -\frac{162}{679}, -\frac{12}{97})$ $+ \frac{2}{679}\sqrt{70493}e^3 \otimes e_7 + \frac{5}{679}\sqrt{9878}e^4 \otimes e_8$	{12345, 1467, 2368, 578}
842:1	$0, 0, 0, 0, \frac{2}{339}\sqrt{7627}e^{12}, \frac{2}{339}\sqrt{3219}e^{13}, \frac{58}{339}\sqrt{5}e^{15}, \frac{2}{339}\sqrt{2059}e^{25}$	$(\frac{49}{339}, \frac{4}{113}, -\frac{67}{339}, -\frac{104}{339}, \frac{61}{339}, -\frac{6}{113}, \frac{110}{339}, \frac{73}{339})$ $+ \frac{16}{339}\sqrt{145}e^1 \otimes e_3 + \frac{2}{339}\sqrt{8207}e^2 \otimes e_4$	{1278, 1458, 2357, 34}
842:1	$0, 0, 0, 0, \frac{68}{849}\sqrt{14}e^{12}, \frac{34}{849}\sqrt{82}e^{13}, \frac{119}{849}\sqrt{10}e^{15}, \frac{170}{849}e^{25}$	$(-\frac{7}{283}, \frac{11}{283}, \frac{280}{849}, -\frac{310}{849}, \frac{4}{283}, \frac{259}{849}, -\frac{3}{283}, \frac{15}{283})$ $+ \frac{17}{849}\sqrt{698}e^3 \otimes e_7 + \frac{51}{283}\sqrt{10}e^1 \otimes e_4$	{1267, 135, 24578, 3468}
842:1	$0, 0, 0, 0, \frac{4}{529}\sqrt{8873}e^{12}, \frac{1}{529}\sqrt{68182}e^{13}, \frac{2}{529}\sqrt{36893}e^{15}, \frac{6}{529}\sqrt{467}e^{25}$	$(\frac{146}{529}, -\frac{30}{529}, \frac{31}{529}, -\frac{321}{529}, \frac{116}{529}, \frac{177}{529}, \frac{262}{529}, \frac{86}{529})$ $+ \frac{1}{529}\sqrt{15878}e^1 \otimes e_4$	{1237, 1267, 135, 156, 2345678, 24578, 3468, 48}
842:1	$0, 0, 0, 0, \frac{1}{557}\sqrt{96254}e^{12}, \frac{1}{557}\sqrt{45866}e^{13}, \frac{68}{557}\sqrt{19}e^{15}, \frac{1}{557}\sqrt{25194}e^{25}$	$(\frac{162}{557}, -\frac{116}{557}, -\frac{161}{557}, \frac{253}{557}, \frac{46}{557}, -\frac{1}{557}, \frac{208}{557}, -\frac{70}{557})$ $+ \frac{1}{557}\sqrt{116926}e^4 \otimes e_8 + \frac{76}{557}\sqrt{34}e^1 \otimes e_3$	{1278, 158, 23457, 34}
842:1	$0, 0, 0, 0, \frac{2}{405}\sqrt{7437}e^{12}, \frac{13}{405}\sqrt{134}e^{13}, \frac{2}{405}\sqrt{11993}e^{15}, \frac{1}{405}\sqrt{12730}e^{25}$	$(\frac{43}{405}, -\frac{1}{15}, -\frac{91}{405}, \frac{193}{405}, \frac{16}{405}, -\frac{16}{135}, \frac{59}{405}, -\frac{11}{405})$ $+ \frac{1}{405}\sqrt{41942}e^4 \otimes e_7 + \frac{4}{405}\sqrt{3551}e^1 \otimes e_3$	{127, 145, 23578, 348}
842:1	$0, 0, 0, 0, \frac{2}{57}\sqrt{170}e^{12}, \frac{2}{57}\sqrt{85}e^{13}, \frac{2}{57}\sqrt{85}e^{15}, \frac{2}{57}\sqrt{170}e^{25}$	$(-\frac{4}{19}, \frac{5}{19}, \frac{25}{57}, -\frac{1}{3}, \frac{1}{19}, \frac{13}{57}, -\frac{3}{19}, \frac{6}{19})$ $+ \frac{2}{19}\sqrt{51}e^2 \otimes e_4 + \frac{2}{57}\sqrt{374}e^3 \otimes e_7$	{12678, 13458, 257, 346}
842:1	$0, 0, 0, 0, \frac{3}{509}\sqrt{2926}e^{12}, \frac{1}{509}\sqrt{51414}e^{13}, \frac{4}{509}\sqrt{3135}e^{15}, \frac{3}{509}\sqrt{25498}e^{25}$	$(\frac{82}{509}, -\frac{100}{509}, \frac{63}{509}, 1, -\frac{18}{509}, \frac{145}{509}, \frac{64}{509}, -\frac{118}{509})$ $+ \frac{9}{509}\sqrt{6270}e^4 \otimes e_8$	{1238, 1268, 13578, 15678, 23456, 245, 3467, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:1	$0, 0, 0, 0, \frac{2}{147}\sqrt{421}e^{12}, \frac{2}{1617}\sqrt{226498}e^{13}, \frac{4}{1617}\sqrt{13051}e^{15}, \frac{2}{1617}\sqrt{7157}e^{25}$	$(-\frac{122}{539}, \frac{93}{539}, \frac{389}{1617}, \frac{865}{1617}, -\frac{29}{539}, \frac{23}{1617}, -\frac{151}{539}, \frac{64}{539})$ $+\frac{2}{1617}\sqrt{290490}e^4 \otimes e_6 + \frac{8}{1617}\sqrt{19787}e^3 \otimes e_7$	{12345, 167, 2368, 4578}
842:1	$0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{5}{79}\sqrt{78}e^{13}, \frac{10}{79}e^{15}, \frac{5}{79}\sqrt{74}e^{25}$	$(-\frac{5}{79}, -\frac{5}{79}, \frac{35}{79}, \frac{35}{79}, -\frac{10}{79}, \frac{30}{79}, -\frac{15}{79}, -\frac{15}{79})$ $+\frac{20}{79}\sqrt{11}e^3 \otimes e_8 + \frac{35}{79}\sqrt{2}e^4 \otimes e_7$	{12357, 134, 278, 458}
842:1	$0, 0, 0, 0, \frac{2}{31}\sqrt{57}e^{12}, \frac{2}{31}\sqrt{57}e^{13}, \frac{4}{31}\sqrt{57}e^{15}, \frac{2}{31}\sqrt{38}e^{25}$	$(-\frac{6}{31}, \frac{5}{31}, \frac{9}{31}, 1, -\frac{1}{31}, \frac{3}{31}, -\frac{7}{31}, \frac{4}{31})$ $+\frac{10}{31}\sqrt{19}e^4 \otimes e_7$	{12367, 127, 13456, 145, 23578, 25678, 348, 468}
842:1	$0, 0, 0, 0, \frac{3}{499}\sqrt{4070}e^{12}, \frac{1}{499}\sqrt{178266}e^{13}, \frac{1}{499}\sqrt{91982}e^{15}, \frac{2}{499}\sqrt{41514}e^{25}$	$(\frac{23}{499}, -\frac{75}{499}, \frac{280}{499}, \frac{84}{499}, -\frac{52}{499}, \frac{303}{499}, -\frac{29}{499}, -\frac{127}{499})$ $+\frac{1}{499}\sqrt{337810}e^3 \otimes e_8$	{123457, 12357, 13, 134, 2478, 278, 458, 58}
842:1	$0, 0, 0, 0, \frac{2}{31}\sqrt{38}e^{12}, \frac{4}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{57}e^{15}, \frac{2}{31}\sqrt{57}e^{25}$	$(-\frac{1}{31}, \frac{5}{31}, -\frac{6}{31}, 1, \frac{4}{31}, -\frac{7}{31}, \frac{3}{31}, \frac{9}{31})$ $+\frac{10}{31}\sqrt{19}e^4 \otimes e_6$	{123457, 12567, 134, 16, 23678, 2478, 3568, 458}
842:1	$0, 0, 0, 0, \frac{6}{1277}\sqrt{4379}e^{12}, \frac{6}{1277}\sqrt{11078}e^{13}, \frac{12}{1277}\sqrt{145}e^{15}, \frac{6}{1277}\sqrt{8265}e^{25}$	$(-\frac{348}{1277}, \frac{399}{1277}, \frac{225}{1277}, \frac{165}{1277}, \frac{51}{1277}, -\frac{123}{1277}, -\frac{297}{1277}, \frac{450}{1277})$ $+\frac{6}{1277}\sqrt{12818}e^3 \otimes e_7 + \frac{6}{1277}\sqrt{19430}e^2 \otimes e_6$	{12348, 1238, 145678, 15678}
842:1	$0, 0, 0, 0, \frac{1}{815}\sqrt{59110}e^{12}, \frac{1}{815}\sqrt{94062}e^{13}, \frac{4}{815}\sqrt{4369}e^{15}, \frac{1}{815}\sqrt{162938}e^{25}$	$(-\frac{14}{163}, \frac{96}{815}, -\frac{91}{815}, \frac{379}{815}, \frac{26}{815}, -\frac{161}{815}, -\frac{44}{815}, \frac{122}{815})$ $+\frac{1}{815}\sqrt{147518}e^4 \otimes e_8 + \frac{2}{815}\sqrt{56026}e^2 \otimes e_6$	{1238, 15678, 245, 3467}
842:1	$0, 0, 0, 0, \frac{2}{499}\sqrt{41514}e^{12}, \frac{1}{499}\sqrt{91982}e^{13}, \frac{1}{499}\sqrt{178266}e^{15}, \frac{3}{499}\sqrt{4070}e^{25}$	$(\frac{189}{499}, -\frac{75}{499}, -\frac{218}{499}, \frac{84}{499}, \frac{114}{499}, -\frac{29}{499}, \frac{303}{499}, \frac{39}{499})$ $+\frac{1}{499}\sqrt{337810}e^1 \otimes e_3$	{1247, 127, 145, 15, 234578, 23578, 348, 38}
842:1	$0, 0, 0, 0, \frac{4}{51}\sqrt{7}e^{12}, \frac{4}{51}\sqrt{91}e^{13}, \frac{4}{51}\sqrt{91}e^{15}, \frac{4}{51}\sqrt{7}e^{25}$	$(-\frac{5}{17}, \frac{4}{17}, \frac{38}{51}, \frac{10}{51}, -\frac{1}{17}, \frac{23}{51}, -\frac{6}{17}, \frac{3}{17})$ $+\frac{4}{51}\sqrt{287}e^3 \otimes e_7$	{123458, 12358, 14678, 1678, 2346, 236, 457, 57}
842:1	$0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{16}{325}\sqrt{19}e^{13}, \frac{16}{325}\sqrt{34}e^{15}, \frac{16}{325}\sqrt{53}e^{25}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, \frac{42}{325}, \frac{57}{325}, -\frac{18}{65}, \frac{76}{325}, \frac{19}{65})$ $+\frac{16}{325}\sqrt{151}e^2 \otimes e_6 + \frac{32}{325}\sqrt{33}e^1 \otimes e_3$	{14568, 1568, 346, 36}
842:1	$0, 0, 0, 0, \frac{8}{263}\sqrt{345}e^{12}, \frac{4}{263}\sqrt{1909}e^{13}, \frac{92}{263}\sqrt{2}e^{15}, \frac{4}{263}\sqrt{2369}e^{25}$	$(-\frac{49}{263}, \frac{100}{263}, -\frac{35}{263}, \frac{48}{263}, \frac{51}{263}, -\frac{84}{263}, \frac{2}{263}, \frac{151}{263})$ $+\frac{4}{263}\sqrt{4945}e^2 \otimes e_6$	{12348, 1238, 145678, 15678, 245, 25, 3467, 367}
842:1	$0, 0, 0, 0, \frac{1}{705}\sqrt{69094}e^{12}, \frac{4}{705}\sqrt{4053}e^{13}, \frac{2}{705}\sqrt{2123}e^{15}, \frac{2}{705}\sqrt{12931}e^{25}$	$(-\frac{1}{705}, \frac{37}{235}, -\frac{27}{235}, -\frac{194}{705}, \frac{22}{141}, -\frac{82}{705}, \frac{109}{705}, \frac{221}{705})$ $+\frac{1}{705}\sqrt{108466}e^1 \otimes e_4 + \frac{1}{705}\sqrt{130082}e^2 \otimes e_6$	{12378, 1568, 2457, 346}
842:1	$0, 0, 0, 0, \frac{16}{557}\sqrt{10}e^{12}, \frac{16}{1671}\sqrt{661}e^{13}, \frac{16}{1671}\sqrt{402}e^{15}, \frac{16}{1671}\sqrt{691}e^{25}$	$(-\frac{203}{1671}, \frac{50}{557}, \frac{75}{557}, \frac{146}{1671}, -\frac{53}{1671}, \frac{22}{1671}, -\frac{256}{1671}, \frac{97}{1671})$ $+\frac{16}{1671}\sqrt{785}e^2 \otimes e_6 + \frac{32}{1671}\sqrt{185}e^3 \otimes e_8$	{145678, 15678, 3467, 367}
842:1	$0, 0, 0, 0, \frac{1}{21}\sqrt{30}e^{12}, \frac{1}{21}\sqrt{114}e^{13}, \frac{1}{21}\sqrt{6}e^{15}, \frac{2}{7}\sqrt{2}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+\frac{1}{21}\sqrt{174}e^3 \otimes e_8 + \frac{2}{21}\sqrt{39}e^1 \otimes e_4$	{12678, 1568, 234567, 346}
842:1	$0, 0, 0, 0, \frac{5}{79}\sqrt{74}e^{12}, \frac{10}{79}e^{13}, \frac{5}{79}\sqrt{78}e^{15}, \frac{10}{79}\sqrt{3}e^{25}$	$(\frac{35}{158}, -\frac{5}{79}, -\frac{65}{158}, \frac{35}{79}, \frac{25}{158}, -\frac{15}{79}, \frac{30}{79}, \frac{15}{158})$ $+\frac{20}{79}\sqrt{11}e^1 \otimes e_3 + \frac{35}{79}\sqrt{2}e^4 \otimes e_6$	{1247, 145, 234578, 348}
842:1	$0, 0, 0, 0, \frac{1}{405}\sqrt{12730}e^{12}, \frac{2}{405}\sqrt{11993}e^{13}, \frac{13}{405}\sqrt{134}e^{15}, \frac{2}{405}\sqrt{7437}e^{25}$	$(-\frac{7}{270}, -\frac{1}{15}, \frac{139}{810}, \frac{193}{405}, -\frac{5}{54}, \frac{59}{405}, -\frac{16}{135}, -\frac{43}{270})$ $+\frac{1}{405}\sqrt{41942}e^4 \otimes e_6 + \frac{4}{405}\sqrt{3551}e^3 \otimes e_8$	{123457, 134, 2478, 458}
842:2	$0, 0, 0, 0, \frac{10}{281}\sqrt{94}e^{12}, \frac{1}{843}\sqrt{132070}e^{13}, \frac{10}{843}\sqrt{705}e^{15}, \frac{10}{281}\sqrt{47}e^{25}$	$(\frac{70}{281}, -\frac{51}{281}, \frac{139}{843}, -\frac{164}{843}, \frac{19}{281}, -\frac{25}{843}, \frac{89}{281}, -\frac{32}{281})$ $+\frac{1}{843}\sqrt{142410}e^3 \otimes e_8 + \frac{47}{281}\sqrt{10}e^1 \otimes e_6$	{1278, 158, 23567, 36}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:2	$0, 0, 0, 0, \frac{1}{223}\sqrt{6110}e^{12}, \frac{1}{669}\sqrt{272506}e^{34}, \frac{26}{223}\sqrt{47}e^{15}, \frac{1}{669}\sqrt{40326}e^{25}$	$(-\frac{48}{223}, \frac{41}{223}, \frac{2}{3}, -\frac{88}{669}, -\frac{7}{223}, \frac{358}{669}, -\frac{55}{223}, \frac{34}{223})$ $+\frac{2}{669}\sqrt{163137}e^3 \otimes e_7$	{12467, 127, 1345, 1356, 245678, 2578, 348, 368}
842:2	$0, 0, 0, 0, \frac{1}{231}\sqrt{21098}e^{12}, \frac{1}{231}\sqrt{21098}e^{34}, \frac{3}{77}\sqrt{274}e^{15}, \frac{2}{231}\sqrt{822}e^{25}$	$(\frac{73}{231}, -\frac{20}{231}, -\frac{32}{231}, -\frac{32}{231}, \frac{53}{231}, -\frac{64}{231}, \frac{6}{11}, \frac{1}{7})$ $+\frac{2}{231}\sqrt{12741}e^1 \otimes e_6$	{12347, 127, 1345, 15, 235678, 368}
842:2	$0, 0, 0, 0, \frac{4}{53}\sqrt{41}e^{12}, \frac{4}{53}\sqrt{41}e^{34}, \frac{2}{53}\sqrt{123}e^{15}, \frac{2}{53}\sqrt{123}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, \frac{49}{53}, -\frac{33}{53}, \frac{10}{53}, \frac{16}{53}, \frac{15}{53}, \frac{15}{53})$ $+\frac{82}{53}e^3 \otimes e_4$	{123678, 124678, 13568, 14568, 36, 46}
842:2	$0, 0, 0, 0, \frac{22}{205}\sqrt{3}e^{12}, \frac{22}{615}\sqrt{205}e^{34}, \frac{22}{615}\sqrt{87}e^{15}, \frac{22}{615}\sqrt{87}e^{25}$	$(-\frac{11}{205}, -\frac{11}{205}, \frac{143}{615}, \frac{143}{615}, -\frac{22}{205}, \frac{286}{615}, -\frac{33}{205}, -\frac{33}{205})$ $+\frac{22}{615}\sqrt{267}e^3 \otimes e_7 + \frac{22}{615}\sqrt{267}e^4 \otimes e_8$	{1278, 13568, 34}
842:2	$0, 0, 0, 0, \frac{4}{2253}\sqrt{11742}e^{12}, \frac{2}{2253}\sqrt{77353}e^{34}, \frac{2}{2253}\sqrt{83739}e^{15}, \frac{2}{2253}\sqrt{19158}e^{25}$	$(\frac{33}{751}, -\frac{5}{751}, \frac{389}{2253}, -\frac{496}{2253}, \frac{28}{751}, -\frac{107}{2253}, \frac{61}{751}, \frac{23}{751})$ $+\frac{2}{2253}\sqrt{114639}e^1 \otimes e_6 + \frac{2}{2253}\sqrt{91155}e^3 \otimes e_7$	{127, 1345, 245678, 368}
842:2	$0, 0, 0, 0, \frac{2}{599}\sqrt{21098}e^{12}, \frac{2}{599}\sqrt{21098}e^{34}, \frac{18}{599}\sqrt{274}e^{15}, \frac{4}{599}\sqrt{822}e^{25}$	$(\frac{146}{599}, -\frac{40}{599}, \frac{73}{599}, -\frac{201}{599}, \frac{106}{599}, \frac{128}{599}, \frac{252}{599}, \frac{66}{599})$ $+\frac{274}{599}e^3 \otimes e_4 + \frac{4}{599}\sqrt{12741}e^1 \otimes e_6$	{235678, 245678, 368, 468}
842:3	$0, 0, 0, 0, \frac{10}{1033}\sqrt{1258}e^{12}, \frac{4}{1033}\sqrt{64787}e^{13}, \frac{6}{1033}\sqrt{8177}e^{25}, \frac{2}{1033}\sqrt{55981}e^{15} + \frac{16}{1033}\sqrt{629}e^{23}$	$(-\frac{75}{1033}, \frac{195}{1033}, -\frac{150}{1033}, 1, \frac{120}{1033}, -\frac{225}{1033}, \frac{315}{1033}, \frac{45}{1033})$ $+\frac{2}{1033}\sqrt{525215}e^4 \otimes e_6$	{123458, 134, 23678, 3567}
842:3	$0, 0, 0, 0, \frac{26}{1267}\sqrt{345}e^{12}, \frac{26}{1267}\sqrt{311}e^{13}, \frac{26}{1267}\sqrt{249}e^{25}, \frac{52}{1267}\sqrt{17}e^{15} + \frac{26}{1267}\sqrt{79}e^{23}$	$(-\frac{39}{1267}, \frac{221}{1267}, -\frac{78}{1267}, -\frac{377}{1267}, \frac{26}{181}, -\frac{117}{1267}, \frac{403}{1267}, \frac{143}{1267})$ $+\frac{26}{1267}\sqrt{582}e^2 \otimes e_6 + \frac{78}{1267}\sqrt{59}e^1 \otimes e_4$	{12378, 346}
842:3	$0, 0, 0, 0, \frac{2}{37}\sqrt{3}e^{12}, \frac{6}{37}\sqrt{6}e^{13}, \frac{2}{37}\sqrt{33}e^{25}, \frac{12}{37}e^{15} + \frac{5}{37}\sqrt{6}e^{23}$	$(-\frac{1}{37}, \frac{6}{37}, -\frac{2}{37}, -\frac{11}{37}, \frac{5}{37}, \frac{3}{37}, \frac{11}{37}, \frac{4}{37})$ $+\frac{2}{37}\sqrt{66}e^3 \otimes e_4 + \frac{4}{37}\sqrt{21}e^2 \otimes e_6$	{1237, 368}
842:3	$0, 0, 0, 0, \frac{32}{1633}\sqrt{219}e^{12}, \frac{192}{1633}\sqrt{10}e^{13}, \frac{32}{1633}\sqrt{622}e^{25}, \frac{32}{1633}\sqrt{282}e^{15} + \frac{224}{1633}e^{23}$	$(-\frac{112}{1633}, \frac{176}{1633}, -\frac{224}{1633}, \frac{752}{1633}, \frac{64}{1633}, -\frac{336}{1633}, \frac{240}{1633}, -\frac{48}{1633})$ $+\frac{288}{1633}\sqrt{7}e^4 \otimes e_7 + \frac{32}{1633}\sqrt{881}e^2 \otimes e_6$	{1237, 3468}
842:3	$0, 0, 0, 0, \frac{4}{27}\sqrt{23}e^{12}, \frac{2}{27}\sqrt{23}e^{13}, \frac{4}{27}\sqrt{23}e^{25}, \frac{2}{27}\sqrt{23}e^{15} + \frac{1}{27}\sqrt{230}e^{23}$	$(\frac{1}{27}, \frac{2}{9}, \frac{2}{27}, -\frac{17}{27}, \frac{7}{27}, \frac{1}{9}, \frac{13}{27}, \frac{8}{27})$ $+\frac{2}{27}\sqrt{253}e^2 \otimes e_4$	{12367, 1345678, 235, 348}
842:3	$0, 0, 0, 0, \frac{3}{86}\sqrt{183}e^{12}, \frac{1}{86}\sqrt{4209}e^{13}, \frac{1}{43}\sqrt{915}e^{25}, \frac{1}{86}\sqrt{2867}e^{15} + \frac{1}{86}\sqrt{2379}e^{23}$	$(\frac{8}{43}, -\frac{45}{172}, \frac{16}{43}, \frac{27}{172}, -\frac{13}{172}, \frac{24}{43}, -\frac{29}{86}, \frac{19}{172})$ $+\frac{1}{86}\sqrt{8845}e^3 \otimes e_7$	{2478, 278, 457, 57}
842:3	$0, 0, 0, 0, \frac{39}{701}\sqrt{6}e^{12}, \frac{65}{701}\sqrt{10}e^{13}, \frac{13}{701}\sqrt{462}e^{25}, \frac{91}{701}\sqrt{6}e^{15} + \frac{13}{701}\sqrt{310}e^{23}$	$(\frac{65}{701}, -\frac{52}{701}, \frac{130}{701}, -\frac{221}{701}, \frac{13}{701}, \frac{195}{701}, -\frac{39}{701}, \frac{78}{701})$ $+\frac{13}{701}\sqrt{582}e^2 \otimes e_4 + \frac{26}{701}\sqrt{170}e^3 \otimes e_7$	{2356, 3468}
842:3	$0, 0, 0, 0, \frac{2}{359}\sqrt{17399}e^{12}, \frac{2}{359}\sqrt{8905}e^{13}, \frac{6}{359}\sqrt{137}e^{25}, \frac{4}{359}\sqrt{4247}e^{15} + \frac{2}{359}\sqrt{11919}e^{23}$	$(\frac{43}{359}, \frac{15}{359}, \frac{86}{359}, -\frac{231}{359}, \frac{58}{359}, \frac{129}{359}, \frac{73}{359}, \frac{101}{359})$ $+\frac{2}{359}\sqrt{40415}e^1 \otimes e_4$	{12378, 1357, 234568, 346}
842:3	$0, 0, 0, 0, \frac{2}{61}\sqrt{246}e^{12}, \frac{6}{61}\sqrt{41}e^{13}, \frac{2}{61}\sqrt{451}e^{25}, \frac{2}{61}\sqrt{246}e^{15} + \frac{1}{61}\sqrt{574}e^{23}$	$(-\frac{7}{61}, \frac{20}{61}, -\frac{14}{61}, \frac{11}{61}, \frac{13}{61}, -\frac{21}{61}, \frac{33}{61}, \frac{6}{61})$ $+\frac{10}{61}\sqrt{41}e^2 \otimes e_6$	{12347, 1237, 3468, 368}
842:3	$0, 0, 0, 0, \frac{2}{1057}\sqrt{44870}e^{12}, \frac{2}{1057}\sqrt{66023}e^{13}, \frac{4}{1057}\sqrt{65382}e^{25}, \frac{2}{1057}\sqrt{42306}e^{15} + \frac{2}{1057}\sqrt{64741}e^{23}$	$(\frac{15}{151}, -\frac{165}{1057}, \frac{30}{151}, 1, -\frac{60}{1057}, \frac{45}{151}, -\frac{225}{1057}, \frac{45}{1057})$ $+\frac{26}{1057}\sqrt{3205}e^4 \otimes e_7$	{1267, 15678, 245, 48}
842:3	$0, 0, 0, 0, \frac{10}{3437}\sqrt{6}e^{12}, \frac{10}{3437}\sqrt{629}e^{13}, \frac{10}{3437}\sqrt{627}e^{25}, \frac{10}{3437}\sqrt{478}e^{15} + \frac{5}{3437}\sqrt{1262}e^{23}$	$(-\frac{15}{3437}, -\frac{20}{3437}, -\frac{30}{3437}, \frac{275}{3437}, -\frac{5}{491}, -\frac{45}{3437}, -\frac{55}{3437}, -\frac{50}{3437})$ $+\frac{10}{3437}\sqrt{789}e^2 \otimes e_6 + \frac{60}{3437}\sqrt{22}e^3 \otimes e_7$	{2478, 278}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:3	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{15}{53}\sqrt{2}e^{13}, \frac{5}{53}\sqrt{14}e^{25},$ $\frac{10}{53}e^{15} + \frac{5}{53}\sqrt{30}e^{23}$	$(\frac{5}{53}, -\frac{10}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0)$ $+ \frac{10}{53}\sqrt{14}e^3 \otimes e_7 + \frac{5}{53}\sqrt{38}e^4 \otimes e_8$	{278, 457}
842:3	$0, 0, 0, 0, \frac{31}{3149}\sqrt{942}e^{12}, \frac{341}{3149}\sqrt{22}e^{13}, \frac{372}{3149}\sqrt{11}e^{25},$ $\frac{217}{3149}\sqrt{30}e^{15} + \frac{62}{3149}\sqrt{181}e^{23}$	$(\frac{155}{3149}, -\frac{403}{3149}, \frac{310}{3149}, \frac{1426}{3149}, -\frac{248}{3149}, \frac{465}{3149}, -\frac{651}{3149}, -\frac{93}{3149})$ $+ \frac{31}{3149}\sqrt{3446}e^3 \otimes e_7 + \frac{62}{3149}\sqrt{573}e^4 \otimes e_6$	{2478, 457}
842:4	$0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{874}e^{13}, \frac{46}{83}e^{15},$ $\frac{2}{83}\sqrt{989}e^{25} + \frac{46}{83}e^{34}$	$(-\frac{18}{83}, \frac{25}{83}, -\frac{3}{83}, \frac{35}{83}, \frac{7}{83}, -\frac{21}{83}, -\frac{11}{83}, \frac{32}{83})$ $+ \frac{2}{83}\sqrt{1633}e^2 \otimes e_6$	{12348, 15678, 245, 367}
842:4	$0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{2}{37}\sqrt{7}e^{13}, \frac{8}{37}e^{15}, \frac{4}{37}e^{25} + \frac{8}{37}e^{34}$	$(\frac{2}{37}, -\frac{1}{37}, -\frac{5}{37}, \frac{5}{37}, \frac{1}{37}, -\frac{3}{37}, \frac{3}{37}, 0)$ $+ \frac{2}{37}\sqrt{17}e^4 \otimes e_7 + \frac{8}{37}e^1 \otimes e_8$	{127, 13456, 23578, 468}
842:4	$0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{2}{37}\sqrt{7}e^{13}, \frac{8}{37}e^{15}, \frac{4}{37}e^{25} + \frac{8}{37}e^{34}$	$(\frac{2}{37}, -\frac{1}{37}, -\frac{5}{37}, \frac{5}{37}, \frac{1}{37}, -\frac{3}{37}, \frac{3}{37}, 0)$ $+ \frac{2}{37}\sqrt{17}e^4 \otimes e_7 - \frac{8}{37}e^1 \otimes e_8$	{127, 13456, 23578, 468}
842:4	$0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{759}e^{13}, \frac{8}{83}\sqrt{69}e^{15},$ $\frac{4}{83}\sqrt{161}e^{25} + \frac{8}{83}\sqrt{69}e^{34}$	$(-\frac{18}{83}, \frac{25}{83}, -\frac{3}{83}, \frac{35}{83}, \frac{7}{83}, -\frac{21}{83}, -\frac{11}{83}, \frac{32}{83})$ $+ \frac{2}{83}\sqrt{1633}e^4 \otimes e_7$	{127, 13456, 23578, 468}
842:4	$0, 0, 0, 0, \frac{4}{59}\sqrt{21}e^{12}, \frac{4}{59}\sqrt{57}e^{13}, \frac{2}{59}\sqrt{30}e^{15},$ $\frac{12}{59}\sqrt{5}e^{25} + \frac{2}{59}\sqrt{30}e^{34}$	$(-\frac{16}{59}, \frac{18}{59}, \frac{10}{59}, \frac{10}{59}, \frac{2}{59}, -\frac{6}{59}, -\frac{14}{59}, \frac{20}{59})$ $+ \frac{2}{59}\sqrt{390}e^2 \otimes e_6 + \frac{4}{59}\sqrt{57}e^3 \otimes e_7$	{12348, 15678}
842:4	$0, 0, 0, 0, \frac{1}{10}\sqrt{2}e^{12}, \frac{1}{5}\sqrt{5}e^{13}, \frac{1}{10}\sqrt{11}e^{15},$ $\frac{2}{5}e^{25} + \frac{1}{10}\sqrt{11}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{10}\sqrt{14}e^3 \otimes e_4 + \frac{1}{10}\sqrt{23}e^2 \otimes e_6$	{245, 367}
842:4	$0, 0, 0, 0, \frac{2}{323}\sqrt{5921}e^{12}, \frac{10}{323}\sqrt{1146}e^{13}, \frac{8}{323}\sqrt{573}e^{15},$ $\frac{2}{323}\sqrt{9741}e^{25} + \frac{8}{323}\sqrt{573}e^{34}$	$(-\frac{14}{323}, \frac{37}{323}, \frac{13}{19}, -\frac{161}{323}, \frac{23}{323}, \frac{207}{323}, \frac{9}{323}, \frac{60}{323})$ $+ \frac{2}{323}\sqrt{50806}e^3 \otimes e_4$	{12357, 124567, 13, 146}
842:4	$0, 0, 0, 0, \frac{2}{27}\sqrt{11}e^{12}, \frac{2}{27}\sqrt{22}e^{13}, \frac{2}{27}\sqrt{110}e^{15},$ $\frac{2}{27}\sqrt{55}e^{25} + \frac{2}{27}\sqrt{110}e^{34}$	$(-\frac{8}{27}, \frac{1}{3}, \frac{5}{9}, -\frac{5}{27}, \frac{1}{27}, \frac{7}{27}, -\frac{7}{27}, \frac{10}{27})$ $+ \frac{22}{27}\sqrt{2}e^3 \otimes e_7$	{1267, 1345, 24578, 368}
842:4	$0, 0, 0, 0, \frac{6}{539}\sqrt{291}e^{12}, \frac{6}{539}\sqrt{102}e^{13}, \frac{6}{539}\sqrt{510}e^{15},$ $\frac{6}{539}\sqrt{15}e^{25} + \frac{6}{539}\sqrt{510}e^{34}$	$(\frac{24}{539}, -\frac{27}{539}, \frac{75}{539}, -\frac{15}{77}, -\frac{3}{539}, \frac{9}{49}, \frac{3}{77}, -\frac{30}{539})$ $+ \frac{12}{539}\sqrt{195}e^1 \otimes e_8 + \frac{6}{539}\sqrt{642}e^3 \otimes e_7$	{1267, 1345, 24578, 368}
842:4	$0, 0, 0, 0, \frac{6}{539}\sqrt{291}e^{12}, \frac{6}{539}\sqrt{102}e^{13}, \frac{6}{539}\sqrt{510}e^{15},$ $\frac{6}{539}\sqrt{15}e^{25} + \frac{6}{539}\sqrt{510}e^{34}$	$(\frac{24}{539}, -\frac{27}{539}, \frac{75}{539}, -\frac{15}{77}, -\frac{3}{539}, \frac{9}{49}, \frac{3}{77}, -\frac{30}{539})$ $- \frac{12}{539}\sqrt{195}e^1 \otimes e_8 + \frac{6}{539}\sqrt{642}e^3 \otimes e_7$	{1267, 1345, 24578, 368}
842:5	$0, 0, 0, 0, \frac{7}{3711}\sqrt{402}e^{12}, \frac{14}{3711}\sqrt{658}e^{13}, \frac{28}{3711}\sqrt{199}e^{25},$ $\frac{7}{3711}\sqrt{2130}e^{15} + \frac{7}{3711}\sqrt{1254}e^{34}$	$(-\frac{112}{3711}, \frac{42}{1237}, \frac{63}{1237}, -\frac{287}{3711}, \frac{14}{3711}, \frac{77}{3711}, \frac{140}{3711}, -\frac{98}{3711})$ $+ \frac{112}{3711}\sqrt{14}e^3 \otimes e_7 + \frac{7}{3711}\sqrt{3158}e^2 \otimes e_6$	{145678, 368}
842:5	$0, 0, 0, 0, \frac{38}{3969}\sqrt{181}e^{12}, \frac{19}{3969}\sqrt{2846}e^{13}, \frac{38}{3969}\sqrt{606}e^{25},$ $\frac{38}{3969}\sqrt{590}e^{15} + \frac{19}{1323}\sqrt{69}e^{34}$	$(\frac{152}{1323}, -\frac{19}{147}, -\frac{209}{3969}, \frac{608}{3969}, -\frac{19}{1323}, \frac{247}{3969}, -\frac{190}{1323}, \frac{19}{189})$ $+ \frac{19}{3969}\sqrt{3026}e^4 \otimes e_6 + \frac{19}{3969}\sqrt{4238}e^3 \otimes e_7$	{134, 2478}
842:5	$0, 0, 0, 0, \frac{70}{3593}\sqrt{166}e^{12}, \frac{735}{3593}\sqrt{6}e^{13}, \frac{630}{3593}\sqrt{6}e^{25},$ $\frac{35}{3593}\sqrt{1194}e^{15} + \frac{35}{3593}\sqrt{222}e^{34}$	$(-\frac{665}{3593}, \frac{1015}{3593}, \frac{455}{3593}, -\frac{770}{3593}, \frac{350}{3593}, -\frac{210}{3593}, \frac{1365}{3593}, -\frac{315}{3593})$ $+ \frac{210}{3593}\sqrt{107}e^2 \otimes e_6 + \frac{490}{3593}\sqrt{13}e^3 \otimes e_4$	{1237, 245}
842:5	$0, 0, 0, 0, \frac{8}{1223}\sqrt{1677}e^{12}, \frac{48}{1223}\sqrt{258}e^{13}, \frac{4}{1223}\sqrt{46182}e^{25},$ $\frac{8}{1223}\sqrt{8342}e^{15} + \frac{4}{1223}\sqrt{33798}e^{34}$	$(\frac{232}{1223}, -\frac{261}{1223}, \frac{398}{1223}, -\frac{195}{1223}, -\frac{29}{1223}, \frac{630}{1223}, -\frac{290}{1223}, \frac{203}{1223})$ $+ \frac{20}{1223}\sqrt{3526}e^3 \otimes e_7$	{12358, 134, 2478, 57}
842:5	$0, 0, 0, 0, \frac{3}{619}\sqrt{5090}e^{12}, \frac{1}{619}\sqrt{21378}e^{13}, \frac{1}{619}\sqrt{251446}e^{25},$ $\frac{2}{619}\sqrt{31049}e^{15} + \frac{2}{619}\sqrt{64643}e^{34}$	$(\frac{212}{619}, -\frac{178}{619}, -\frac{119}{619}, \frac{365}{619}, \frac{34}{619}, \frac{93}{619}, -\frac{144}{619}, \frac{246}{619})$ $+ \frac{1}{619}\sqrt{514090}e^4 \otimes e_7$	{127, 135678, 2345, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:5	$0, 0, 0, 0, \frac{72}{1217}\sqrt{23}e^{12}, \frac{12}{1217}\sqrt{6486}e^{13}, \frac{6}{1217}\sqrt{10281}e^{25},$ $\frac{6}{1217}\sqrt{14835}e^{15} + \frac{24}{1217}\sqrt{1518}e^{34}$	$(\frac{119}{1217}, \frac{131}{1217}, -\frac{496}{1217}, \frac{865}{1217}, \frac{250}{1217}, -\frac{377}{1217}, \frac{381}{1217}, \frac{369}{1217})$ $+ \frac{6}{1217}\sqrt{67965}e^4 \otimes e_6$	{134, 16, 23678, 2478}
842:5	$0, 0, 0, 0, \frac{21}{631}\sqrt{290}e^{12}, \frac{294}{631}\sqrt{2}e^{13}, \frac{84}{631}\sqrt{31}e^{25},$ $\frac{21}{631}\sqrt{226}e^{15} + \frac{21}{631}\sqrt{22}e^{34}$	$(-\frac{112}{631}, \frac{238}{631}, -\frac{91}{631}, \frac{105}{631}, \frac{126}{631}, -\frac{203}{631}, \frac{364}{631}, \frac{14}{631})$ $+ \frac{21}{631}\sqrt{1030}e^2 \otimes e_6$	{12347, 145678, 25, 368}
842:5	$0, 0, 0, 0, \frac{1}{293}\sqrt{14678}e^{12}, \frac{6}{293}\sqrt{2327}e^{13}, \frac{6}{293}\sqrt{537}e^{25},$ $\frac{1}{293}\sqrt{18258}e^{15} + \frac{4}{293}\sqrt{537}e^{34}$	$(-\frac{31}{586}, \frac{49}{293}, \frac{188}{293}, -\frac{170}{293}, \frac{67}{586}, \frac{345}{586}, \frac{165}{586}, \frac{18}{293})$ $+ \frac{5}{293}\sqrt{6802}e^3 \otimes e_4$	{13, 146, 3567, 457}
842:6	$0, 0, 0, 0, \frac{3}{511}\sqrt{1122}e^{12}, \frac{66}{511}\sqrt{34}e^{13} + \frac{1}{511}\sqrt{5610}e^{24}, \frac{3}{511}\sqrt{16082}e^{15},$ $\frac{4}{511}\sqrt{561}e^{25}$	$(-\frac{152}{511}, \frac{122}{511}, \frac{379}{511}, \frac{15}{73}, -\frac{30}{511}, \frac{227}{511}, -\frac{26}{73}, \frac{92}{511})$ $+ \frac{3}{511}\sqrt{51238}e^3 \otimes e_7$	{12358, 1678, 2346, 457}
842:6	$0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{5}{79}\sqrt{39}e^{13} + \frac{5}{79}\sqrt{39}e^{24}, \frac{5}{79}\sqrt{35}e^{15},$ $\frac{5}{79}\sqrt{35}e^{25}$	$(-\frac{5}{79}, -\frac{5}{79}, \frac{35}{79}, \frac{35}{79}, -\frac{10}{79}, \frac{30}{79}, -\frac{15}{79}, -\frac{15}{79})$ $+ \frac{5}{79}\sqrt{137}e^3 \otimes e_7 + \frac{5}{79}\sqrt{137}e^4 \otimes e_8$	{12345, 1467, 578}
842:6	$0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{5}{79}\sqrt{39}e^{13} + \frac{5}{79}\sqrt{39}e^{24}, \frac{5}{79}\sqrt{35}e^{15},$ $\frac{5}{79}\sqrt{35}e^{25}$	$(-\frac{5}{79}, -\frac{5}{79}, \frac{35}{79}, \frac{35}{79}, -\frac{10}{79}, \frac{30}{79}, -\frac{15}{79}, -\frac{15}{79})$ $+ \frac{5}{79}\sqrt{137}e^3 \otimes e_7 - \frac{5}{79}\sqrt{137}e^4 \otimes e_8$	{12345, 1467, 578}
842:6	$0, 0, 0, 0, \frac{1}{31}\sqrt{238}e^{12}, \frac{1}{31}\sqrt{170}e^{13} + \frac{2}{31}\sqrt{34}e^{24}, \frac{4}{31}\sqrt{17}e^{15},$ $\frac{1}{31}\sqrt{34}e^{25}$	$(\frac{10}{31}, -\frac{8}{31}, -\frac{7}{31}, \frac{11}{31}, \frac{2}{31}, \frac{3}{31}, \frac{12}{31}, -\frac{6}{31})$ $+ \frac{1}{31}\sqrt{374}e^4 \otimes e_8 + \frac{4}{31}\sqrt{34}e^1 \otimes e_3$	{158, 23457}
842:6	$0, 0, 0, 0, \frac{6}{251}\sqrt{1139}e^{12}, \frac{12}{251}\sqrt{170}e^{13} + \frac{2}{251}\sqrt{969}e^{24}, \frac{30}{251}\sqrt{51}e^{15},$ $\frac{2}{251}\sqrt{2703}e^{25}$	$(\frac{98}{251}, -\frac{41}{251}, -\frac{106}{251}, \frac{33}{251}, \frac{57}{251}, -\frac{8}{251}, \frac{155}{251}, \frac{16}{251})$ $+ \frac{6}{251}\sqrt{2363}e^1 \otimes e_3$	{1247, 15, 234578, 38}
842:6	$0, 0, 0, 0, \frac{56}{155}\sqrt{2}e^{12}, \frac{7}{155}\sqrt{37}e^{13} + \frac{7}{155}\sqrt{37}e^{24}, \frac{14}{155}\sqrt{13}e^{15},$ $\frac{14}{155}\sqrt{13}e^{25}$	$(\frac{14}{155}, \frac{14}{155}, -\frac{7}{31}, -\frac{7}{31}, \frac{28}{155}, -\frac{21}{155}, \frac{42}{155}, \frac{42}{155})$ $+ \frac{7}{155}\sqrt{139}e^1 \otimes e_3 + \frac{7}{155}\sqrt{139}e^2 \otimes e_4$	{1278, 1458, 34}
842:6	$0, 0, 0, 0, \frac{56}{155}\sqrt{2}e^{12}, \frac{7}{155}\sqrt{37}e^{13} + \frac{7}{155}\sqrt{37}e^{24}, \frac{14}{155}\sqrt{13}e^{15},$ $\frac{14}{155}\sqrt{13}e^{25}$	$(\frac{14}{155}, \frac{14}{155}, -\frac{7}{31}, -\frac{7}{31}, \frac{28}{155}, -\frac{21}{155}, \frac{42}{155}, \frac{42}{155})$ $+ \frac{7}{155}\sqrt{139}e^1 \otimes e_3 - \frac{7}{155}\sqrt{139}e^2 \otimes e_4$	{1278, 1458, 34}
842:6	$0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{20}{79}\sqrt{11}e^{13} + \frac{35}{79}\sqrt{2}e^{24}, \frac{5}{79}\sqrt{102}e^{15},$ $\frac{10}{79}\sqrt{43}e^{25}$	$(-\frac{5}{79}, -\frac{5}{79}, \frac{35}{79}, \frac{35}{79}, -\frac{10}{79}, \frac{30}{79}, -\frac{15}{79}, -\frac{15}{79})$ $+ \frac{5}{79}\sqrt{274}e^3 \otimes e_8$	{12357, 134, 278, 458}
842:7	$0, 0, 0, 0, \frac{68}{4013}\sqrt{82}e^{12}, \frac{34}{4013}\sqrt{599}e^{34}, \frac{34}{4013}\sqrt{673}e^{15},$ $\frac{17}{4013}\sqrt{838}e^{13} + \frac{34}{4013}\sqrt{222}e^{25}$	$(-\frac{34}{4013}, \frac{221}{4013}, \frac{442}{4013}, -\frac{765}{4013}, \frac{187}{4013}, -\frac{323}{4013}, \frac{153}{4013}, \frac{408}{4013})$ $+ \frac{34}{4013}\sqrt{813}e^3 \otimes e_7 + \frac{34}{4013}\sqrt{977}e^1 \otimes e_6$	{1345, 368}
842:7	$0, 0, 0, 0, \frac{4}{89}\sqrt{109}e^{12}, \frac{4}{89}\sqrt{109}e^{34}, \frac{2}{89}\sqrt{327}e^{15},$ $\frac{1}{89}\sqrt{8502}e^{13} + \frac{2}{89}\sqrt{327}e^{25}$	$(-\frac{10}{89}, \frac{29}{89}, \frac{58}{89}, -\frac{51}{89}, \frac{19}{89}, \frac{7}{89}, \frac{9}{89}, \frac{48}{89})$ $+ \frac{2}{89}\sqrt{4033}e^3 \otimes e_4$	{124578, 148, 247, 45}
842:7	$0, 0, 0, 0, \frac{5}{211}\sqrt{690}e^{12}, \frac{5}{211}\sqrt{690}e^{34}, \frac{5}{211}\sqrt{730}e^{15},$ $\frac{10}{211}\sqrt{10}e^{13} + \frac{10}{211}\sqrt{30}e^{25}$	$(\frac{65}{211}, -\frac{16}{211}, -\frac{32}{211}, -\frac{28}{211}, \frac{49}{211}, -\frac{60}{211}, \frac{114}{211}, \frac{33}{211})$ $+ \frac{50}{211}\sqrt{17}e^1 \otimes e_6$	{12347, 1345, 235678, 368}
842:7	$0, 0, 0, 0, \frac{19}{1967}\sqrt{1402}e^{12}, \frac{19}{1967}\sqrt{1686}e^{34}, \frac{38}{1967}\sqrt{105}e^{15},$ $\frac{38}{1967}\sqrt{281}e^{13} + \frac{19}{1967}\sqrt{1262}e^{25}$	$(-\frac{76}{1967}, \frac{209}{1967}, \frac{418}{1967}, -\frac{570}{1967}, \frac{19}{1967}, \frac{281}{1967}, -\frac{152}{1967}, \frac{57}{1967}, \frac{342}{1967})$ $+ \frac{38}{1967}\sqrt{213}e^3 \otimes e_7 + \frac{38}{1967}\sqrt{634}e^2 \otimes e_6$	{13568, 36}
842:7	$0, 0, 0, 0, \frac{22}{293}\sqrt{26}e^{12}, \frac{22}{293}\sqrt{26}e^{34}, \frac{22}{293}\sqrt{30}e^{15},$ $\frac{11}{293}\sqrt{102}e^{13} + \frac{44}{293}\sqrt{3}e^{25}$	$(\frac{44}{293}, \frac{11}{293}, \frac{22}{293}, -\frac{99}{293}, \frac{55}{293}, -\frac{77}{293}, \frac{99}{293}, \frac{66}{293})$ $+ \frac{22}{293}\sqrt{43}e^3 \otimes e_4 + \frac{44}{293}\sqrt{21}e^1 \otimes e_6$	{235678, 368}
842:7	$0, 0, 0, 0, \frac{16}{1927}\sqrt{453}e^{12}, \frac{192}{1927}\sqrt{5}e^{34}, \frac{16}{1927}\sqrt{754}e^{15},$ $\frac{16}{1927}\sqrt{233}e^{13} + \frac{16}{1927}\sqrt{102}e^{25}$	$(\frac{152}{1927}, -\frac{136}{1927}, -\frac{272}{1927}, \frac{296}{1927}, \frac{16}{1927}, \frac{24}{1927}, \frac{168}{1927}, -\frac{120}{1927})$ $+ \frac{16}{1927}\sqrt{911}e^1 \otimes e_6 + \frac{48}{1927}\sqrt{89}e^4 \otimes e_7$	{127, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:7	$0, 0, 0, 0, \frac{2}{607}\sqrt{22137e^{12}}, \frac{6}{607}\sqrt{6751e^{34}}, \frac{3}{607}\sqrt{26690e^{15}},$ $\frac{1}{607}\sqrt{157314e^{13}} + \frac{3}{607}\sqrt{942e^{25}}$	$(-\frac{67}{607}, \frac{12}{607}, \frac{24}{607}, \frac{349}{607}, -\frac{55}{607}, \frac{373}{607}, -\frac{122}{607}, -\frac{43}{607})$ $+\frac{6}{607}\sqrt{12874e^4} \otimes e_7$	{123678, 13458, 23567, 34}
842:7	$0, 0, 0, 0, \frac{1}{601}\sqrt{5190e^{12}}, \frac{1}{601}\sqrt{173346e^{34}}, \frac{3}{601}\sqrt{6574e^{15}},$ $\frac{10}{601}\sqrt{1038e^{13}} + \frac{6}{601}\sqrt{5363e^{25}}$	$(\frac{67}{601}, -\frac{76}{601}, -\frac{152}{601}, \frac{434}{601}, -\frac{9}{601}, \frac{282}{601}, \frac{58}{601}, -\frac{85}{601})$ $+\frac{54}{601}\sqrt{173e^4} \otimes e_8$	{128, 1578, 2456, 467}
842:7	$0, 0, 0, 0, \frac{22}{1103}\sqrt{39e^{12}}, \frac{22}{1103}\sqrt{447e^{34}}, \frac{66}{1103}\sqrt{17e^{15}},$ $\frac{1103}{1103}\sqrt{1254e^{13}} + \frac{66}{1103}\sqrt{17e^{25}}$	$(-\frac{154}{1103}, \frac{55}{1103}, \frac{110}{1103}, \frac{319}{1103}, -\frac{99}{1103}, \frac{429}{1103}, -\frac{253}{1103}, -\frac{44}{1103})$ $+\frac{594}{1103}e^3 \otimes e_7 + \frac{594}{1103}e^4 \otimes e_8$	{12345, 2368}
842:7	$0, 0, 0, 0, \frac{14}{205}\sqrt{53e^{12}}, \frac{14}{205}\sqrt{53e^{34}}, \frac{3}{205}\sqrt{106e^{15}},$ $\frac{1}{205}\sqrt{9434e^{13}} + \frac{1}{205}\sqrt{10070e^{25}}$	$(\frac{3}{41}, \frac{12}{205}, \frac{24}{205}, -\frac{13}{41}, \frac{27}{205}, -\frac{1}{5}, \frac{42}{205}, \frac{39}{205})$ $+\frac{2}{205}\sqrt{4558e^2} \otimes e_6$	{123478, 13568, 23457, 36}
842:7	$0, 0, 0, 0, \frac{8}{1519}\sqrt{465e^{12}}, \frac{8}{1519}\sqrt{622e^{34}}, \frac{8}{1519}\sqrt{39e^{15}},$ $\frac{8}{1519}\sqrt{347e^{13}} + \frac{8}{1519}\sqrt{635e^{25}}$	$(\frac{92}{1519}, -\frac{52}{1519}, -\frac{104}{1519}, \frac{20}{1519}, \frac{40}{1519}, -\frac{12}{217}, \frac{132}{1519}, -\frac{12}{1519})$ $+\frac{8}{1519}\sqrt{471e^4} \otimes e_8 + \frac{8}{1519}\sqrt{877e^2} \otimes e_6$	{135678, 2345}
842:7	$0, 0, 0, 0, \frac{10}{113}\sqrt{35e^{12}}, \frac{10}{113}\sqrt{35e^{34}}, \frac{15}{113}\sqrt{2e^{15}},$ $\frac{5}{113}\sqrt{146e^{13}} + \frac{5}{113}\sqrt{134e^{25}}$	$(\frac{15}{113}, 0, 0, -\frac{25}{113}, \frac{15}{113}, \frac{25}{113}, \frac{30}{113}, \frac{15}{113})$ $+\frac{10}{113}\sqrt{58e^2} \otimes e_6 + \frac{20}{113}\sqrt{3e^3} \otimes e_4$	{123478, 23457}
842:7	$0, 0, 0, 0, \frac{1}{601}\sqrt{5190e^{12}}, \frac{1}{601}\sqrt{173346e^{34}}, \frac{6}{601}\sqrt{5363e^{15}},$ $\frac{10}{601}\sqrt{1038e^{13}} + \frac{3}{601}\sqrt{6574e^{25}}$	$(-\frac{176}{601}, \frac{167}{601}, \frac{334}{601}, -\frac{52}{601}, -\frac{9}{601}, \frac{282}{601}, -\frac{185}{601}, \frac{158}{601})$ $+\frac{54}{601}\sqrt{173e^3} \otimes e_7$	{1345, 1356, 348, 368}
842:7	$0, 0, 0, 0, \frac{14}{373}\sqrt{66e^{12}}, \frac{105}{373}\sqrt{2e^{34}}, \frac{14}{373}\sqrt{55e^{15}},$ $\frac{7}{373}\sqrt{142e^{13}} + \frac{14}{373}\sqrt{33e^{25}}$	$(\frac{77}{373}, -\frac{49}{373}, -\frac{98}{373}, \frac{77}{373}, \frac{28}{373}, -\frac{21}{373}, \frac{105}{373}, -\frac{21}{373})$ $+\frac{21}{373}\sqrt{62e^4} \otimes e_8 + \frac{7}{373}\sqrt{734e^1} \otimes e_6$	{1278, 158, 24567, 46}
842:7	$0, 0, 0, 0, \frac{14}{373}\sqrt{66e^{12}}, \frac{105}{373}\sqrt{2e^{34}}, \frac{14}{373}\sqrt{55e^{15}},$ $\frac{7}{373}\sqrt{142e^{13}} + \frac{14}{373}\sqrt{33e^{25}}$	$(\frac{77}{373}, -\frac{49}{373}, -\frac{98}{373}, \frac{77}{373}, \frac{28}{373}, -\frac{21}{373}, \frac{105}{373}, -\frac{21}{373})$ $-\frac{21}{373}\sqrt{62e^4} \otimes e_8 + \frac{7}{373}\sqrt{734e^1} \otimes e_6$	{1278, 158, 24567, 46}
842:8	$0, 0, 0, 0, \frac{11}{157}\sqrt{51e^{12}}, \frac{11}{314}\sqrt{67e^{13}}, \frac{11}{314}\sqrt{51e^{15}},$ $\frac{11}{314}\sqrt{51e^{14}} + \frac{33}{314}\sqrt{15e^{25}}$	$(\frac{33}{628}, \frac{33}{314}, -\frac{209}{628}, \frac{33}{157}, \frac{99}{628}, -\frac{44}{157}, \frac{33}{157}, \frac{165}{628})$ $+\frac{11}{314}\sqrt{223e^1} \otimes e_3 + \frac{99}{157}e^2 \otimes e_6$	{14568, 346}
842:8	$0, 0, 0, 0, \frac{22}{233}\sqrt{30e^{12}}, \frac{33}{233}\sqrt{15e^{13}}, \frac{11}{233}\sqrt{30e^{15}},$ $\frac{33}{233}\sqrt{10e^{14}} + \frac{55}{233}\sqrt{7e^{25}}$	$(-\frac{33}{233}, \frac{55}{233}, -\frac{33}{233}, \frac{110}{233}, \frac{22}{233}, -\frac{66}{233}, -\frac{11}{233}, \frac{77}{233})$ $+\frac{11}{233}\sqrt{61e^4} \otimes e_7 + \frac{44}{233}\sqrt{21e^2} \otimes e_6$	{12348, 245}
842:8	$0, 0, 0, 0, \frac{72}{1063}\sqrt{71e^{12}}, \frac{4}{1063}\sqrt{28045e^{13}}, \frac{284}{1063}\sqrt{2e^{15}},$ $\frac{2}{1063}\sqrt{1349e^{14}} + \frac{4}{1063}\sqrt{35713e^{25}}$	$(-\frac{105}{1063}, \frac{236}{1063}, -\frac{227}{1063}, \frac{472}{1063}, \frac{131}{1063}, -\frac{332}{1063}, \frac{26}{1063}, \frac{367}{1063})$ $+\frac{4}{1063}\sqrt{63545e^2} \otimes e_6$	{12348, 145678, 245, 3467}
842:8	$0, 0, 0, 0, \frac{232}{3449}\sqrt{21e^{12}}, \frac{58}{3449}\sqrt{398e^{13}}, \frac{29}{3449}\sqrt{2282e^{15}},$ $\frac{116}{3449}\sqrt{94e^{14}} + \frac{174}{3449}e^{25}$	$(\frac{203}{3449}, -\frac{319}{3449}, \frac{928}{3449}, -\frac{638}{3449}, -\frac{116}{3449}, \frac{1131}{3449}, \frac{87}{3449}, -\frac{435}{3449})$ $+\frac{145}{3449}\sqrt{138e^1} \otimes e_4 + \frac{29}{3449}\sqrt{2778e^3} \otimes e_7$	{1267, 135}
842:8	$0, 0, 0, 0, \frac{110}{821}\sqrt{3e^{12}}, \frac{11}{821}\sqrt{442e^{13}}, \frac{22}{821}\sqrt{161e^{15}},$ $\frac{11}{821}\sqrt{494e^{14}} + \frac{33}{821}\sqrt{38e^{25}}$	$(-\frac{22}{821}, \frac{77}{821}, -\frac{143}{821}, \frac{154}{821}, \frac{55}{821}, -\frac{165}{821}, \frac{33}{821}, \frac{132}{821})$ $+\frac{11}{821}\sqrt{690e^4} \otimes e_7 + \frac{22}{821}\sqrt{210e^1} \otimes e_3$	{145, 348}
842:8	$0, 0, 0, 0, \frac{2}{359}\sqrt{17399e^{12}}, \frac{2}{359}\sqrt{8905e^{13}}, \frac{4}{359}\sqrt{4247e^{15}},$ $\frac{2}{359}\sqrt{11919e^{14}} + \frac{6}{359}\sqrt{137e^{25}}$	$(\frac{130}{359}, -\frac{72}{359}, -\frac{1}{359}, -\frac{144}{359}, \frac{58}{359}, \frac{129}{359}, \frac{188}{359}, -\frac{14}{359})$ $+\frac{2}{359}\sqrt{40415e^1} \otimes e_4$	{234567, 2457, 346, 4}
842:8	$0, 0, 0, 0, \frac{1}{98}\sqrt{105e^{12}}, \frac{1}{98}\sqrt{553e^{13}}, \frac{3}{98}\sqrt{35e^{15}},$ $\frac{1}{98}\sqrt{77e^{14}} + \frac{1}{7}\sqrt{3e^{25}}$	$(-\frac{3}{28}, \frac{1}{14}, \frac{3}{28}, \frac{1}{7}, -\frac{1}{28}, 0, -\frac{1}{7}, \frac{1}{28})$ $+\frac{1}{98}\sqrt{581e^3} \otimes e_8 + \frac{2}{49}\sqrt{42e^2} \otimes e_6$	{145678, 3467}
842:8	$0, 0, 0, 0, \frac{27}{2551}\sqrt{982e^{12}}, \frac{54}{2551}\sqrt{445e^{13}}, \frac{27}{2551}\sqrt{46e^{15}},$ $\frac{27}{2551}\sqrt{1266e^{14}} + \frac{54}{2551}\sqrt{390e^{25}}$	$(-\frac{486}{2551}, \frac{459}{2551}, \frac{216}{2551}, \frac{918}{2551}, -\frac{27}{2551}, -\frac{270}{2551}, -\frac{513}{2551}, \frac{432}{2551})$ $+\frac{27}{2551}\sqrt{1642e^3} \otimes e_7 + \frac{459}{2551}\sqrt{10e^2} \otimes e_6$	{2457, 346}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:8	$0, 0, 0, 0, \frac{8}{211}\sqrt{21}e^{12}, \frac{8}{211}\sqrt{413}e^{13}, \frac{8}{211}\sqrt{413}e^{15},$ $\frac{112}{211}e^{14} + \frac{8}{211}\sqrt{21}e^{25}$	$(-\frac{53}{211}, \frac{34}{211}, \frac{152}{211}, \frac{68}{211}, -\frac{19}{211}, \frac{99}{211}, -\frac{72}{211}, \frac{15}{211})$ $+ \frac{24}{211}\sqrt{133}e^3 \otimes e_7$	{124678, 13458, 2457, 346}
842:8	$0, 0, 0, 0, \frac{1}{43}\sqrt{915}e^{12}, \frac{1}{86}\sqrt{2867}e^{13}, \frac{1}{86}\sqrt{4209}e^{15},$ $\frac{1}{86}\sqrt{2379}e^{14} + \frac{3}{86}\sqrt{183}e^{25}$	$(\frac{51}{172}, -\frac{3}{86}, -\frac{71}{172}, -\frac{3}{43}, \frac{45}{172}, -\frac{5}{43}, \frac{24}{43}, \frac{39}{172})$ $+ \frac{1}{86}\sqrt{8845}e^1 \otimes e_3$	{1247, 145, 234578, 348}
842:8	$0, 0, 0, 0, \frac{17}{2849}\sqrt{1894}e^{12}, \frac{68}{2849}\sqrt{105}e^{13}, \frac{34}{2849}\sqrt{107}e^{15},$ $\frac{136}{2849}\sqrt{26}e^{14} + \frac{102}{2849}\sqrt{43}e^{25}$	$(\frac{255}{2849}, -\frac{17}{2849}, -\frac{51}{259}, -\frac{34}{2849}, \frac{34}{407}, -\frac{306}{2849}, \frac{493}{2849}, \frac{221}{2849})$ $+ \frac{17}{2849}\sqrt{2290}e^1 \otimes e_4 + \frac{85}{2849}\sqrt{114}e^2 \otimes e_6$	{2457, 346}
842:8	$0, 0, 0, 0, \frac{33}{821}\sqrt{38}e^{12}, \frac{22}{821}\sqrt{161}e^{13}, \frac{11}{821}\sqrt{442}e^{15},$ $\frac{11}{821}\sqrt{494}e^{14} + \frac{110}{821}\sqrt{3}e^{25}$	$(-\frac{121}{821}, \frac{77}{821}, \frac{154}{821}, \frac{154}{821}, -\frac{44}{821}, \frac{33}{821}, -\frac{165}{821}, \frac{33}{821})$ $- \frac{11}{821}\sqrt{690}e^4 \otimes e_6 + \frac{22}{821}\sqrt{210}e^3 \otimes e_8$	{123457, 134, 2478, 458}
842:8	$0, 0, 0, 0, \frac{33}{821}\sqrt{38}e^{12}, \frac{22}{821}\sqrt{161}e^{13}, \frac{11}{821}\sqrt{442}e^{15},$ $\frac{11}{821}\sqrt{494}e^{14} + \frac{110}{821}\sqrt{3}e^{25}$	$(-\frac{121}{821}, \frac{77}{821}, \frac{154}{821}, \frac{154}{821}, -\frac{44}{821}, \frac{33}{821}, -\frac{165}{821}, \frac{33}{821})$ $+ \frac{11}{821}\sqrt{690}e^4 \otimes e_6 + \frac{22}{821}\sqrt{210}e^3 \otimes e_8$	{123457, 134, 2478, 458}
842:8	$0, 0, 0, 0, \frac{5}{53}\sqrt{14}e^{12}, \frac{10}{53}e^{13}, \frac{15}{53}\sqrt{2}e^{15},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, \frac{20}{53}, \frac{10}{53}, \frac{10}{53}, \frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{14}e^1 \otimes e_3 + \frac{5}{53}\sqrt{38}e^4 \otimes e_6$	{1247, 145, 234578, 348}
842:8	$0, 0, 0, 0, \frac{5}{53}\sqrt{14}e^{12}, \frac{10}{53}e^{13}, \frac{15}{53}\sqrt{2}e^{15},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{14}e^1 \otimes e_3 - \frac{5}{53}\sqrt{38}e^4 \otimes e_6$	{1247, 145, 234578, 348}
842:8	$0, 0, 0, 0, \frac{3}{86}\sqrt{183}e^{12}, \frac{1}{86}\sqrt{4209}e^{13}, \frac{1}{86}\sqrt{2867}e^{15},$ $\frac{1}{86}\sqrt{2379}e^{14} + \frac{1}{43}\sqrt{915}e^{25}$	$(-\frac{7}{172}, -\frac{3}{86}, \frac{103}{172}, -\frac{3}{172}, -\frac{13}{172}, \frac{24}{172}, -\frac{5}{43}, -\frac{19}{172})$ $+ \frac{1}{86}\sqrt{8845}e^3 \otimes e_8$	{123457, 134, 2478, 458}
842:8	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{15}{53}\sqrt{2}e^{13}, \frac{10}{53}e^{15},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{3}{53}\sqrt{14}e^{25}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{25}{53}, \frac{10}{53}, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0)$ $+ \frac{10}{53}\sqrt{14}e^3 \otimes e_8 + \frac{3}{53}\sqrt{38}e^4 \otimes e_7$	{134, 458}
842:8	$0, 0, 0, 0, \frac{111}{2741}\sqrt{66}e^{12}, \frac{74}{2741}\sqrt{437}e^{13}, \frac{37}{2741}\sqrt{218}e^{15},$ $\frac{37}{2741}\sqrt{614}e^{14} + \frac{74}{2741}\sqrt{21}e^{25}$	$(-\frac{703}{2741}, \frac{629}{2741}, \frac{592}{2741}, \frac{1258}{2741}, -\frac{74}{2741}, -\frac{111}{2741}, -\frac{777}{2741}, \frac{555}{2741})$ $+ \frac{1036}{2741}\sqrt{3}e^3 \otimes e_7 + \frac{185}{2741}\sqrt{102}e^4 \otimes e_6$	{1678, 236}
842:9	$0, 0, 0, 0, \frac{2}{251}\sqrt{2703}e^{12}, \frac{30}{251}\sqrt{51}e^{13}, \frac{6}{251}\sqrt{1139}e^{25},$ $\frac{12}{251}\sqrt{170}e^{15} + \frac{2}{251}\sqrt{969}e^{24}$	$(\frac{33}{502}, -\frac{41}{251}, \frac{277}{502}, \frac{33}{251}, -\frac{49}{502}, \frac{155}{251}, -\frac{131}{502}, -\frac{8}{251})$ $+ \frac{6}{251}\sqrt{2363}e^3 \otimes e_7$	{12358, 13, 278, 57}
842:9	$0, 0, 0, 0, \frac{2}{201}\sqrt{3}e^{12}, \frac{10}{201}\sqrt{7}e^{13}, \frac{2}{201}\sqrt{151}e^{25},$ $\frac{4}{201}\sqrt{30}e^{15} + \frac{2}{201}\sqrt{69}e^{24}$	$(-\frac{17}{402}, \frac{3}{67}, \frac{9}{134}, -\frac{17}{201}, \frac{1}{402}, \frac{5}{201}, \frac{19}{402}, -\frac{8}{201})$ $+ \frac{20}{201}\sqrt{2}e^2 \otimes e_6 + \frac{2}{201}\sqrt{167}e^3 \otimes e_7$	{12358, 278}
842:9	$0, 0, 0, 0, \frac{65}{161}e^{12}, \frac{10}{161}\sqrt{21}e^{13}, \frac{5}{161}\sqrt{51}e^{25},$ $\frac{5}{161}\sqrt{107}e^{15} + \frac{5}{161}\sqrt{101}e^{24}$	$(-\frac{5}{322}, \frac{20}{161}, -\frac{55}{322}, -\frac{5}{161}, \frac{5}{46}, -\frac{30}{161}, \frac{75}{322}, \frac{15}{161})$ $+ \frac{15}{161}\sqrt{15}e^2 \otimes e_4 + \frac{5}{161}\sqrt{163}e^1 \otimes e_3$	{1457, 34}
842:9	$0, 0, 0, 0, \frac{48}{1055}\sqrt{59}e^{12}, \frac{24}{1055}\sqrt{818}e^{13}, \frac{72}{1055}\sqrt{78}e^{25},$ $\frac{48}{1055}\sqrt{145}e^{15} + \frac{48}{1055}\sqrt{146}e^{24}$	$(-\frac{11}{211}, \frac{294}{1055}, -\frac{227}{1055}, -\frac{22}{211}, \frac{239}{1055}, -\frac{282}{1055}, \frac{533}{1055}, \frac{184}{1055})$ $+ \frac{72}{1055}\sqrt{194}e^2 \otimes e_6$	{12347, 145678, 245, 3468}
842:9	$0, 0, 0, 0, \frac{31}{2681}\sqrt{1002}e^{12}, \frac{186}{2681}\sqrt{41}e^{13}, \frac{31}{2681}\sqrt{278}e^{25},$ $\frac{31}{2681}\sqrt{214}e^{15} + \frac{310}{2681}\sqrt{21}e^{24}$	$(\frac{155}{2681}, -\frac{403}{2681}, \frac{124}{383}, \frac{310}{2681}, -\frac{248}{2681}, \frac{1023}{2681}, -\frac{93}{383}, -\frac{93}{2681})$ $+ \frac{155}{2681}\sqrt{86}e^4 \otimes e_7 + \frac{31}{2681}\sqrt{2642}e^3 \otimes e_8$	{278, 3567}
842:9	$0, 0, 0, 0, \frac{14}{155}\sqrt{13}e^{12}, \frac{14}{155}\sqrt{13}e^{13}, \frac{56}{155}\sqrt{2}e^{25},$ $\frac{7}{155}\sqrt{37}e^{15} + \frac{7}{155}\sqrt{37}e^{24}$	$(-\frac{7}{62}, \frac{14}{155}, \frac{119}{310}, -\frac{7}{31}, -\frac{7}{310}, \frac{42}{155}, \frac{21}{310}, -\frac{21}{155})$ $+ \frac{7}{155}\sqrt{139}e^2 \otimes e_4 + \frac{7}{155}\sqrt{139}e^3 \otimes e_7$	{1267, 2356}
842:9	$0, 0, 0, 0, \frac{30}{251}\sqrt{51}e^{12}, \frac{2}{251}\sqrt{2703}e^{13}, \frac{6}{251}\sqrt{1139}e^{25},$ $\frac{2}{251}\sqrt{969}e^{15} + \frac{12}{251}\sqrt{170}e^{24}$	$(-\frac{53}{251}, \frac{98}{251}, \frac{69}{251}, -\frac{106}{251}, \frac{45}{251}, \frac{16}{251}, \frac{143}{251}, -\frac{8}{251})$ $+ \frac{6}{251}\sqrt{2363}e^2 \otimes e_4$	{134567, 1457, 34, 46}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:9	$0, 0, 0, 0, \frac{10}{79}\sqrt{43}e^{12}, \frac{5}{79}\sqrt{102}e^{13}, \frac{10}{79}\sqrt{3}e^{25},$ $\frac{20}{79}\sqrt{11}e^{15} + \frac{35}{79}\sqrt{2}e^{24}$	$(\frac{35}{158}, -\frac{5}{79}, -\frac{65}{158}, \frac{35}{79}, \frac{25}{158}, -\frac{15}{79}, \frac{15}{158}, \frac{30}{79})$ $+ \frac{5}{79}\sqrt{274}e^1 \otimes e_3$	{1248, 145, 234578, 347}
842:9	$0, 0, 0, 0, \frac{13}{287}\sqrt{65}e^{12}, \frac{65}{287}\sqrt{3}e^{13}, \frac{65}{287}\sqrt{3}e^{25},$ $\frac{39}{287}\sqrt{5}e^{15} + \frac{65}{287}\sqrt{2}e^{24}$	$(-\frac{52}{287}, \frac{65}{287}, \frac{130}{287}, -\frac{104}{287}, \frac{13}{287}, \frac{78}{287}, \frac{78}{287}, -\frac{39}{287})$ $+ \frac{13}{287}\sqrt{239}e^2 \otimes e_4 + \frac{13}{287}\sqrt{254}e^3 \otimes e_8$	{12678, 258}
842:9	$0, 0, 0, 0, \frac{10}{127}\sqrt{39}e^{12}, \frac{5}{127}\sqrt{34}e^{13}, \frac{10}{127}\sqrt{21}e^{25},$ $\frac{20}{127}\sqrt{3}e^{15} + \frac{5}{127}\sqrt{6}e^{24}$	$(\frac{15}{254}, \frac{15}{127}, -\frac{85}{254}, \frac{15}{127}, \frac{45}{254}, -\frac{35}{127}, \frac{75}{254}, \frac{30}{127})$ $+ \frac{20}{127}\sqrt{15}e^2 \otimes e_6 + \frac{5}{127}\sqrt{202}e^1 \otimes e_3$	{1567, 36}
842:9	$0, 0, 0, 0, \frac{1}{119}\sqrt{210}e^{12}, \frac{2}{119}\sqrt{483}e^{13}, \frac{3}{119}\sqrt{70}e^{25},$ $\frac{2}{17}\sqrt{3}e^{15} + \frac{1}{119}\sqrt{1722}e^{24}$	$(-\frac{2}{17}, \frac{3}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{1}{17}, 0, \frac{4}{17}, -\frac{1}{17})$ $+ \frac{1}{119}\sqrt{1974}e^3 \otimes e_8 + \frac{1}{119}\sqrt{2478}e^2 \otimes e_6$	{278, 3567}
842:9	$0, 0, 0, 0, \frac{468}{1013}e^{12}, \frac{26}{1013}\sqrt{501}e^{13}, \frac{78}{1013}\sqrt{97}e^{25},$ $\frac{26}{1013}\sqrt{615}e^{15} + \frac{78}{1013}\sqrt{115}e^{24}$	$(\frac{334}{1013}, -\frac{340}{1013}, \frac{21}{1013}, \frac{668}{1013}, -\frac{6}{1013}, \frac{355}{1013}, -\frac{346}{1013}, \frac{328}{1013})$ $+ \frac{390}{1013}\sqrt{11}e^4 \otimes e_7$	{23678, 278, 3567, 57}
842:9	$0, 0, 0, 0, \frac{12}{1007}\sqrt{2167}e^{12}, \frac{12}{53}\sqrt{11}e^{13}, \frac{36}{1007}\sqrt{143}e^{25},$ $\frac{132}{1007}\sqrt{11}e^{15} + \frac{240}{1007}\sqrt{11}e^{24}$	$(-\frac{115}{1007}, \frac{84}{1007}, \frac{34}{53}, -\frac{230}{1007}, -\frac{31}{1007}, \frac{531}{1007}, \frac{1}{19}, -\frac{146}{1007})$ $+ \frac{36}{1007}\sqrt{1023}e^3 \otimes e_8$	{123457, 14678, 2346, 458}
842:9	$0, 0, 0, 0, \frac{38}{3241}e^{12}, \frac{38}{3241}\sqrt{489}e^{13}, \frac{19}{3241}\sqrt{2078}e^{25},$ $\frac{38}{3241}\sqrt{457}e^{15} + \frac{38}{3241}\sqrt{519}e^{24}$	$(\frac{247}{3241}, -\frac{57}{3241}, -\frac{95}{463}, \frac{494}{3241}, \frac{190}{3241}, -\frac{418}{3241}, \frac{19}{463}, \frac{437}{3241})$ $+ \frac{19}{3241}\sqrt{2438}e^4 \otimes e_7 + \frac{19}{3241}\sqrt{3418}e^2 \otimes e_6$	{245, 3468}
842:9	$0, 0, 0, 0, \frac{5}{79}\sqrt{102}e^{12}, \frac{10}{79}\sqrt{43}e^{13}, \frac{10}{79}\sqrt{3}e^{25},$ $\frac{35}{79}\sqrt{2}e^{15} + \frac{20}{79}\sqrt{11}e^{24}$	$(\frac{35}{158}, -\frac{5}{79}, -\frac{65}{158}, \frac{35}{79}, \frac{25}{158}, -\frac{15}{79}, \frac{15}{158}, \frac{30}{79})$ $+ \frac{5}{79}\sqrt{274}e^4 \otimes e_6$	{125678, 167, 2368, 356}
842:9	$0, 0, 0, 0, \frac{50}{1109}\sqrt{199}e^{12}, \frac{25}{1109}\sqrt{426}e^{13}, \frac{25}{1109}\sqrt{114}e^{25},$ $\frac{25}{1109}\sqrt{758}e^{15} + \frac{50}{1109}\sqrt{71}e^{24}$	$(\frac{275}{1109}, -\frac{175}{1109}, -\frac{350}{1109}, \frac{550}{1109}, \frac{100}{1109}, -\frac{75}{1109}, -\frac{75}{1109}, \frac{375}{1109})$ $+ \frac{150}{1109}\sqrt{15}e^4 \otimes e_7 + \frac{25}{1109}\sqrt{1402}e^1 \otimes e_3$	{23458, 34}
842:9	$0, 0, 0, 0, \frac{5}{3077}\sqrt{1938}e^{12}, \frac{10}{3077}\sqrt{742}e^{13}, \frac{5}{3077}\sqrt{678}e^{25},$ $\frac{10}{3077}\sqrt{203}e^{15} + \frac{5}{3077}\sqrt{3194}e^{24}$	$(\frac{65}{3077}, -\frac{115}{3077}, \frac{40}{3077}, \frac{130}{3077}, -\frac{50}{3077}, \frac{105}{3077}, -\frac{165}{3077}, \frac{15}{3077})$ $+ \frac{150}{3077}\sqrt{3}e^3 \otimes e_8 + \frac{5}{3077}\sqrt{3106}e^4 \otimes e_6$	{125678, 356}
842:10	$0, 0, 0, 0, \frac{41}{2079}\sqrt{206}e^{12}, \frac{82}{2079}\sqrt{94}e^{13} + \frac{41}{2079}\sqrt{26}e^{24}, \frac{41}{2079}\sqrt{1490}e^{15},$ $\frac{164}{2079}\sqrt{43}e^{25} + \frac{164}{297}\sqrt{2}e^{34}$	$(-\frac{656}{2079}, \frac{82}{231}, \frac{41}{77}, -\frac{41}{297}, \frac{82}{2079}, \frac{41}{189}, -\frac{82}{297}, \frac{820}{2079})$ $+ \frac{41}{2079}\sqrt{3398}e^3 \otimes e_7$	{1345, 368}
842:10	$0, 0, 0, 0, \frac{20}{473}\sqrt{3}e^{12}, \frac{5}{473}\sqrt{543}e^{13} + \frac{45}{473}\sqrt{6}e^{24}, \frac{20}{473}\sqrt{42}e^{15},$ $\frac{5}{473}\sqrt{527}e^{25} + \frac{5}{473}\sqrt{510}e^{34}$	$(-\frac{45}{473}, \frac{40}{473}, \frac{60}{473}, -\frac{25}{473}, -\frac{5}{473}, \frac{15}{473}, -\frac{50}{473}, \frac{35}{473})$ $+ \frac{5}{473}\sqrt{859}e^4 \otimes e_7$	{13456, 468}
842:11	$0, 0, 0, 0, \frac{130}{197}e^{12}, \frac{26}{197}\sqrt{46}e^{13}, \frac{52}{197}\sqrt{7}e^{15} + \frac{13}{197}\sqrt{166}e^{23},$ $\frac{78}{197}e^{25} + \frac{52}{197}\sqrt{7}e^{34}$	$(\frac{39}{197}, -\frac{26}{197}, \frac{78}{197}, -\frac{91}{197}, \frac{13}{197}, \frac{117}{197}, \frac{52}{197}, -\frac{13}{197})$ $+ \frac{26}{197}\sqrt{86}e^3 \otimes e_4$	{124567, 146}
842:11	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{20}{53}\sqrt{3}e^{13}, \frac{30}{53}e^{15} + \frac{5}{53}\sqrt{22}e^{23},$ $\frac{10}{53}\sqrt{13}e^{25} + \frac{30}{53}e^{34}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{25}{53}, \frac{5}{53}, -\frac{15}{53}, 0, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{23}e^2 \otimes e_6$	{12348, 367}
842:11	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{53}\sqrt{11}e^{13}, \frac{10}{53}\sqrt{14}e^{15} + \frac{5}{53}\sqrt{22}e^{23},$ $\frac{10}{53}\sqrt{10}e^{25} + \frac{10}{53}\sqrt{14}e^{34}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{25}{53}, \frac{5}{53}, -\frac{15}{53}, 0, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{23}e^4 \otimes e_7$	{127, 468}
842:12	$0, 0, 0, 0, \frac{210}{2333}\sqrt{14}e^{12}, \frac{420}{2333}\sqrt{11}e^{13},$ $\frac{35}{2333}\sqrt{654}e^{14} + \frac{70}{2333}\sqrt{465}e^{25}, \frac{980}{2333}\sqrt{2}e^{15} + \frac{210}{2333}\sqrt{37}e^{34}$	$(\frac{280}{2333}, -\frac{315}{2333}, \frac{875}{2333}, -\frac{630}{2333}, -\frac{35}{2333}, \frac{1155}{2333}, -\frac{350}{2333}, \frac{245}{2333})$ $+ \frac{70}{2333}\sqrt{985}e^3 \otimes e_7$	{134, 2478}
842:12	$0, 0, 0, 0, \frac{70}{2377}\sqrt{381}e^{12}, \frac{245}{2377}\sqrt{34}e^{13},$ $\frac{70}{2377}\sqrt{371}e^{14} + \frac{140}{2377}\sqrt{145}e^{25}, \frac{665}{2377}\sqrt{2}e^{15} + \frac{35}{2377}\sqrt{438}e^{34}$	$(-\frac{105}{2377}, \frac{455}{2377}, -\frac{665}{2377}, \frac{910}{2377}, \frac{350}{2377}, -\frac{770}{2377}, \frac{805}{2377}, \frac{245}{2377})$ $+ \frac{70}{2377}\sqrt{995}e^2 \otimes e_6$	{12347, 145678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:12	$0, 0, 0, 0, \frac{120}{253}e^{12}, \frac{180}{253}e^{13}, \frac{15}{253}\sqrt{134}e^{14} + \frac{30}{253}\sqrt{5}e^{25},$ $\frac{90}{253}\sqrt{3}e^{15} + \frac{60}{253}\sqrt{7}e^{34}$	$(-\frac{10}{253}, \frac{65}{253}, -\frac{85}{253}, \frac{130}{253}, \frac{5}{23}, -\frac{95}{253}, \frac{120}{253}, \frac{45}{253})$ $+ \frac{30}{253}\sqrt{105}e^4 \otimes e_6$	{134, 2478}
842:13	$0, 0, 0, 0, \frac{4}{115}\sqrt{6}e^{12}, \frac{2}{115}\sqrt{138}e^{13}, \frac{1}{115}\sqrt{435}e^{15} + \frac{1}{115}\sqrt{426}e^{24},$ $\frac{3}{115}\sqrt{42}e^{25} + \frac{1}{115}\sqrt{435}e^{34}$	$(\frac{1}{23}, -\frac{3}{115}, -\frac{11}{115}, \frac{2}{23}, \frac{2}{115}, -\frac{6}{115}, \frac{7}{115}, -\frac{1}{115})$ $+ \frac{3}{115}\sqrt{71}e^2 \otimes e_6$	{12357, 278}
842:13	$0, 0, 0, 0, \frac{1}{47}\sqrt{330}e^{12}, \frac{2}{47}\sqrt{165}e^{13}, \frac{11}{47}\sqrt{6}e^{15} + \frac{1}{47}\sqrt{858}e^{24},$ $\frac{3}{47}\sqrt{66}e^{25} + \frac{11}{47}\sqrt{6}e^{34}$	$(-\frac{8}{47}, \frac{9}{47}, \frac{26}{47}, -\frac{16}{47}, \frac{1}{47}, \frac{18}{47}, -\frac{7}{47}, \frac{10}{47})$ $+ \frac{3}{47}\sqrt{286}e^3 \otimes e_7$	{14678, 2346}
842:13	$0, 0, 0, 0, \frac{45}{119}\sqrt{3}e^{12}, \frac{10}{119}\sqrt{102}e^{13}, \frac{5}{119}\sqrt{237}e^{15} + \frac{15}{119}\sqrt{46}e^{24},$ $\frac{15}{119}\sqrt{2}e^{25} + \frac{5}{119}\sqrt{30}e^{34}$	$(\frac{55}{238}, -\frac{10}{119}, -\frac{95}{238}, \frac{55}{119}, \frac{5}{34}, -\frac{20}{119}, \frac{45}{119}, \frac{15}{238})$ $- \frac{15}{119}\sqrt{69}e^4 \otimes e_6$	{125678, 168, 2367, 356}
842:13	$0, 0, 0, 0, \frac{45}{119}\sqrt{3}e^{12}, \frac{10}{119}\sqrt{102}e^{13}, \frac{5}{119}\sqrt{237}e^{15} + \frac{15}{119}\sqrt{46}e^{24},$ $\frac{15}{119}\sqrt{2}e^{25} + \frac{5}{119}\sqrt{30}e^{34}$	$(\frac{55}{238}, -\frac{10}{119}, -\frac{95}{238}, \frac{55}{119}, \frac{5}{34}, -\frac{20}{119}, \frac{45}{119}, \frac{15}{238})$ $+ \frac{15}{119}\sqrt{69}e^4 \otimes e_6$	{125678, 168, 2367, 356}
842:14	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{53}\sqrt{14}e^{14} + \frac{5}{53}\sqrt{38}e^{23}, \frac{5}{53}\sqrt{42}e^{15},$ $\frac{5}{53}\sqrt{30}e^{13} + \frac{10}{53}\sqrt{13}e^{25}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0)$ $+ \frac{5}{53}\sqrt{94}e^4 \otimes e_8$	{134, 358}
842:14	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{53}\sqrt{38}e^{14} + \frac{10}{53}\sqrt{14}e^{23}, \frac{10}{53}\sqrt{13}e^{15},$ $\frac{5}{53}\sqrt{30}e^{13} + \frac{5}{53}\sqrt{42}e^{25}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0)$ $+ \frac{5}{53}\sqrt{94}e^3 \otimes e_7$	{178, 457}
842:14	$0, 0, 0, 0, \frac{141}{2081}\sqrt{6}e^{12}, \frac{47}{2081}\sqrt{1154}e^{14} + \frac{47}{2081}\sqrt{30}e^{23},$ $\frac{94}{2081}\sqrt{293}e^{15}, \frac{94}{2081}\sqrt{139}e^{13} + \frac{188}{2081}\sqrt{3}e^{25}$	$(-\frac{517}{2081}, \frac{329}{2081}, \frac{658}{2081}, \frac{1504}{2081}, -\frac{188}{2081}, \frac{987}{2081}, -\frac{705}{2081}, \frac{141}{2081})$ $+ \frac{94}{2081}\sqrt{843}e^4 \otimes e_7$	{2357, 346}
842:14	$0, 0, 0, 0, \frac{19}{509}\sqrt{354}e^{12}, \frac{38}{509}\sqrt{70}e^{14} + \frac{19}{509}\sqrt{6}e^{23}, \frac{19}{509}\sqrt{410}e^{15},$ $\frac{19}{509}\sqrt{230}e^{13} + \frac{171}{509}\sqrt{2}e^{25}$	$(\frac{152}{509}, -\frac{19}{509}, -\frac{38}{509}, -\frac{209}{509}, \frac{133}{509}, -\frac{57}{509}, \frac{285}{509}, \frac{114}{509})$ $+ \frac{19}{509}\sqrt{858}e^1 \otimes e_4$	{1237, 234578}
842:15	$0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}\sqrt{2}e^{34}, \frac{1}{4}\sqrt{6}e^{15} - \frac{1}{4}\sqrt{13}e^{23},$ $\frac{1}{4}\sqrt{13}e^{13} + \frac{1}{4}\sqrt{6}e^{25}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{4}\sqrt{22}e^3 \otimes e_4$	{124578, 148, 45, 124578, 148, 45}
842:15	$0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}\sqrt{2}e^{34}, \frac{1}{4}\sqrt{6}e^{15} + \frac{1}{4}\sqrt{13}e^{23},$ $\frac{1}{4}\sqrt{13}e^{13} + \frac{1}{4}\sqrt{6}e^{25}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{4}\sqrt{22}e^3 \otimes e_4$	{124578, 148, 45, 124578, 148, 45}
842:15	$0, 0, 0, 0, \frac{60}{271}\sqrt{3}e^{12}, \frac{20}{271}\sqrt{101}e^{34}, \frac{30}{271}\sqrt{46}e^{15} - \frac{10}{271}\sqrt{158}e^{23},$ $\frac{10}{271}\sqrt{286}e^{13} + \frac{10}{271}\sqrt{30}e^{25}$	$(-\frac{10}{271}, -\frac{10}{271}, -\frac{20}{271}, \frac{170}{271}, -\frac{20}{271}, \frac{150}{271}, -\frac{30}{271}, -\frac{30}{271})$ $+ \frac{20}{271}\sqrt{222}e^4 \otimes e_7$	{127, 1456, 2578, 468, 127, 1456, 2578, 468}
842:15	$0, 0, 0, 0, \frac{60}{271}\sqrt{3}e^{12}, \frac{20}{271}\sqrt{101}e^{34}, \frac{30}{271}\sqrt{46}e^{15} + \frac{10}{271}\sqrt{158}e^{23},$ $\frac{10}{271}\sqrt{286}e^{13} + \frac{10}{271}\sqrt{30}e^{25}$	$(-\frac{10}{271}, -\frac{10}{271}, -\frac{20}{271}, \frac{170}{271}, -\frac{20}{271}, \frac{150}{271}, -\frac{30}{271}, -\frac{30}{271})$ $+ \frac{20}{271}\sqrt{222}e^4 \otimes e_7$	{127, 1456, 2578, 468, 127, 1456, 2578, 468}
842:15	$0, 0, 0, 0, \frac{4}{31}\sqrt{15}e^{12}, \frac{4}{31}\sqrt{15}e^{34}, \frac{2}{31}\sqrt{58}e^{15} - \frac{6}{31}\sqrt{6}e^{23},$ $\frac{2}{31}\sqrt{2}e^{13} + \frac{2}{31}\sqrt{6}e^{25}$	$(\frac{2}{31}, \frac{2}{31}, \frac{4}{31}, -\frac{10}{31}, \frac{4}{31}, -\frac{6}{31}, \frac{6}{31}, \frac{6}{31})$ $+ \frac{4}{31}\sqrt{26}e^1 \otimes e_6$	{123478, 13458, 23567, 36, 123478, 13458, 23567, 36}
842:15	$0, 0, 0, 0, \frac{4}{31}\sqrt{15}e^{12}, \frac{4}{31}\sqrt{15}e^{34}, \frac{2}{31}\sqrt{58}e^{15} + \frac{6}{31}\sqrt{6}e^{23},$ $\frac{2}{31}\sqrt{2}e^{13} + \frac{2}{31}\sqrt{6}e^{25}$	$(\frac{2}{31}, \frac{2}{31}, \frac{4}{31}, -\frac{10}{31}, \frac{4}{31}, -\frac{6}{31}, \frac{6}{31}, \frac{6}{31})$ $+ \frac{4}{31}\sqrt{26}e^1 \otimes e_6$	{123478, 13458, 23567, 36, 123478, 13458, 23567, 36}
842:16	$0, 0, 0, 0, \frac{9}{397}\sqrt{690}e^{12}, \frac{9}{397}\sqrt{6}e^{34}, \frac{27}{397}\sqrt{86}e^{15} + \frac{180}{397}\sqrt{3}e^{23},$ $\frac{180}{397}\sqrt{3}e^{14} + \frac{54}{397}\sqrt{7}e^{25}$	$(\frac{99}{397}, -\frac{72}{397}, \frac{198}{397}, -\frac{144}{397}, \frac{27}{397}, \frac{54}{397}, \frac{126}{397}, -\frac{45}{397})$ $+ \frac{54}{397}\sqrt{57}e^3 \otimes e_8$	{2478, 458}
842:16	$0, 0, 0, 0, \frac{3}{445}\sqrt{1902}e^{12}, \frac{3}{445}\sqrt{1902}e^{34}, \frac{9}{445}\sqrt{190}e^{15} + \frac{6}{445}\sqrt{474}e^{23},$ $\frac{6}{445}\sqrt{285}e^{14} + \frac{445}{445}e^{25}$	$(\frac{33}{445}, -\frac{6}{89}, \frac{66}{445}, -\frac{12}{89}, \frac{3}{445}, \frac{6}{445}, \frac{36}{445}, -\frac{27}{445})$ $+ \frac{54}{445}\sqrt{7}e^1 \otimes e_6$	{123478, 13458}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:17	$0, 0, 0, 0, \frac{31}{1799}\sqrt{1110}e^{12}, \frac{31}{1799}\sqrt{1346}e^{13},$ $\frac{62}{1799}\sqrt{118}e^{15} + \frac{31}{1799}\sqrt{34}e^{23}, \frac{186}{1799}\sqrt{29}e^{14} + \frac{62}{1799}\sqrt{429}e^{25}$	$(-\frac{186}{1799}, \frac{403}{1799}, -\frac{372}{1799}, \frac{806}{1799}, \frac{31}{257}, -\frac{558}{1799}, \frac{31}{1799}, \frac{620}{1799})$ $+ \frac{31}{1799}\sqrt{3030}e^2 \otimes e_6$	{145678, 245}
842:17	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{4}{11}\sqrt{2}e^{13}, \frac{4}{11}e^{15} + \frac{2}{11}\sqrt{14}e^{23},$ $\frac{2}{11}\sqrt{14}e^{14} + \frac{2}{11}\sqrt{10}e^{25}$	$(-\frac{1}{11}, \frac{2}{11}, -\frac{2}{11}, \frac{4}{11}, \frac{1}{11}, -\frac{3}{11}, 0, \frac{3}{11})$ $+ \frac{4}{11}\sqrt{5}e^4 \otimes e_7$	{13678, 357}
842:17	$0, 0, 0, 0, \frac{123}{1709}\sqrt{78}e^{12}, \frac{82}{1709}\sqrt{263}e^{13},$ $\frac{41}{1709}\sqrt{658}e^{15} + \frac{164}{1709}\sqrt{21}e^{23}, \frac{41}{1709}\sqrt{1286}e^{14} + \frac{82}{1709}\sqrt{33}e^{25}$	$(-\frac{205}{1709}, \frac{533}{1709}, -\frac{410}{1709}, \frac{1066}{1709}, \frac{328}{1709}, -\frac{615}{1709}, \frac{123}{1709}, \frac{861}{1709})$ $+ \frac{205}{1709}\sqrt{114}e^4 \otimes e_6$	{125678, 168}
842:17	$0, 0, 0, 0, \frac{2}{21}\sqrt{51}e^{12}, \frac{1}{21}\sqrt{114}e^{13}, \frac{2}{7}\sqrt{5}e^{15} + \frac{1}{21}\sqrt{174}e^{23},$ $\frac{1}{21}\sqrt{174}e^{14} + \frac{2}{7}\sqrt{2}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{21}\sqrt{330}e^1 \otimes e_4$	{234567, 346}
842:17	$0, 0, 0, 0, \frac{1}{7}\sqrt{14}e^{12}, \frac{1}{21}\sqrt{114}e^{13}, \frac{5}{21}\sqrt{6}e^{15} + \frac{2}{21}\sqrt{39}e^{23},$ $\frac{2}{21}\sqrt{39}e^{14} + \frac{2}{7}\sqrt{2}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{21}\sqrt{330}e^3 \otimes e_8$	{2478, 458}
842:18	$0, 0, 0, 0, \frac{171}{509}\sqrt{2}e^{12}, \frac{19}{509}\sqrt{410}e^{13}, \frac{19}{509}\sqrt{149}e^{15} - \frac{19}{509}\sqrt{435}e^{24},$ $\frac{19}{509}\sqrt{199}e^{14} + \frac{95}{509}\sqrt{3}e^{25}$	$(-\frac{19}{509}, -\frac{19}{509}, \frac{304}{509}, -\frac{38}{509}, -\frac{38}{509}, \frac{285}{509}, -\frac{57}{509}, -\frac{57}{509})$ $+ \frac{19}{509}\sqrt{858}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:18	$0, 0, 0, 0, \frac{171}{509}\sqrt{2}e^{12}, \frac{19}{509}\sqrt{410}e^{13}, \frac{19}{509}\sqrt{149}e^{15} + \frac{19}{509}\sqrt{435}e^{24},$ $\frac{19}{509}\sqrt{199}e^{14} + \frac{95}{509}\sqrt{3}e^{25}$	$(-\frac{19}{509}, -\frac{19}{509}, \frac{304}{509}, -\frac{38}{509}, -\frac{38}{509}, \frac{285}{509}, -\frac{57}{509}, -\frac{57}{509})$ $+ \frac{19}{509}\sqrt{858}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:18	$0, 0, 0, 0, \frac{26}{521}\sqrt{47}e^{12}, \frac{117}{521}\sqrt{6}e^{13}, \frac{13}{521}\sqrt{255}e^{15} - \frac{13}{521}\sqrt{341}e^{24},$ $\frac{13}{521}\sqrt{349}e^{14} + \frac{13}{521}\sqrt{435}e^{25}$	$(\frac{39}{521}, \frac{39}{521}, -\frac{169}{521}, \frac{78}{521}, \frac{78}{521}, -\frac{130}{521}, \frac{117}{521}, \frac{117}{521})$ $+ \frac{13}{521}\sqrt{894}e^2 \otimes e_6$	{12348, 145678, 245, 3467, 12348, 145678, 245, 3467}
842:18	$0, 0, 0, 0, \frac{26}{521}\sqrt{47}e^{12}, \frac{117}{521}\sqrt{6}e^{13}, \frac{13}{521}\sqrt{255}e^{15} + \frac{13}{521}\sqrt{341}e^{24},$ $\frac{13}{521}\sqrt{349}e^{14} + \frac{13}{521}\sqrt{435}e^{25}$	$(\frac{39}{521}, \frac{39}{521}, -\frac{169}{521}, \frac{78}{521}, \frac{78}{521}, -\frac{130}{521}, \frac{117}{521}, \frac{117}{521})$ $+ \frac{13}{521}\sqrt{894}e^2 \otimes e_6$	{12348, 145678, 245, 3467, 12348, 145678, 245, 3467}
842:18	$0, 0, 0, 0, \frac{5}{53}\sqrt{42}e^{12}, \frac{10}{53}\sqrt{13}e^{13}, \frac{5}{53}\sqrt{38}e^{15} - \frac{10}{53}\sqrt{14}e^{24},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{5}{53}\sqrt{94}e^4 \otimes e_6$	{125678, 168, 2367, 356, 125678, 168, 2367, 356}
842:18	$0, 0, 0, 0, \frac{5}{53}\sqrt{42}e^{12}, \frac{10}{53}\sqrt{13}e^{13}, \frac{5}{53}\sqrt{38}e^{15} + \frac{10}{53}\sqrt{14}e^{24},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{5}{53}\sqrt{94}e^4 \otimes e_6$	{125678, 168, 2367, 356, 125678, 168, 2367, 356}
842:18	$0, 0, 0, 0, \frac{10}{53}\sqrt{13}e^{12}, \frac{5}{53}\sqrt{42}e^{13}, \frac{10}{53}\sqrt{14}e^{15} - \frac{5}{53}\sqrt{38}e^{24},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{5}{53}\sqrt{94}e^1 \otimes e_3$	{1247, 145, 234578, 348, 1247, 145, 234578, 348}
842:18	$0, 0, 0, 0, \frac{10}{53}\sqrt{13}e^{12}, \frac{5}{53}\sqrt{42}e^{13}, \frac{10}{53}\sqrt{14}e^{15} + \frac{5}{53}\sqrt{38}e^{24},$ $\frac{5}{53}\sqrt{30}e^{14} + \frac{10}{53}\sqrt{3}e^{25}$	$(\frac{5}{53}, \frac{5}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{15}{53}, \frac{15}{53})$ $+ \frac{5}{53}\sqrt{94}e^1 \otimes e_3$	{1247, 145, 234578, 348, 1247, 145, 234578, 348}
842:21	$0, 0, 0, 0, \frac{3}{137}\sqrt{2090}e^{12}, \frac{1}{137}\sqrt{5610}e^{13}, \frac{10}{137}\sqrt{66}e^{15}, \frac{1}{137}\sqrt{5610}e^{16}$	$(-\frac{17}{137}, \frac{80}{137}, \frac{43}{137}, -\frac{85}{137}, \frac{63}{137}, \frac{26}{137}, \frac{46}{137}, \frac{9}{137})$ $+ \frac{3}{137}\sqrt{4070}e^2 \otimes e_4$	{123678, 127, 134568, 145, 23578, 2567, 348, 46}
842:21	$0, 0, 0, 0, \frac{6}{71}\sqrt{78}e^{12}, \frac{2}{71}\sqrt{39}e^{13}, \frac{2}{71}\sqrt{39}e^{15}, \frac{6}{71}\sqrt{78}e^{16}$	$(-\frac{20}{71}, \frac{53}{71}, \frac{15}{71}, \frac{14}{71}, \frac{33}{71}, -\frac{5}{71}, \frac{13}{71}, -\frac{25}{71})$ $+ \frac{6}{71}\sqrt{247}e^2 \otimes e_8$	{12346, 1236, 14578, 1578, 2345, 235, 4678, 678}
842:21	$0, 0, 0, 0, \frac{2}{181}\sqrt{534}e^{12}, \frac{1}{181}\sqrt{5162}e^{13}, \frac{1}{181}\sqrt{7298}e^{15}, \frac{1}{181}\sqrt{5162}e^{16}$	$(\frac{29}{181}, -\frac{60}{181}, -\frac{7}{181}, \frac{87}{181}, -\frac{31}{181}, \frac{22}{181}, -\frac{2}{181}, \frac{51}{181})$ $+ \frac{1}{181}\sqrt{11570}e^4 \otimes e_7 + \frac{2}{181}\sqrt{4183}e^1 \otimes e_2$	{1378, 167, 23468, 24}
842:21	$0, 0, 0, 0, \frac{8}{1319}\sqrt{3810}e^{12}, \frac{40}{1319}\sqrt{219}e^{13}, \frac{8}{1319}\sqrt{435}e^{15},$ $\frac{24}{1319}\sqrt{890}e^{16}$	$(\frac{196}{1319}, -\frac{284}{1319}, -\frac{228}{1319}, \frac{644}{1319}, -\frac{88}{1319}, -\frac{32}{1319}, \frac{108}{1319}, \frac{164}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^4 \otimes e_8 + \frac{360}{1319}\sqrt{5}e^1 \otimes e_2$	{138, 146, 23678, 247}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:21	$0, 0, 0, 0, \frac{6}{11}e^{12}, \frac{6}{11}\sqrt{2}e^{13}, \frac{3}{11}\sqrt{2}e^{15}, \frac{6}{11}\sqrt{2}e^{16}$	$(\frac{4}{11}, -\frac{5}{11}, -\frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{2}{11}, \frac{3}{11}, \frac{6}{11})$ $+ \frac{9}{11}\sqrt{2}e^1 \otimes e_2$	{13478, 1378, 1467, 167, 2, 23468, 2368, 24}
842:21	$0, 0, 0, 0, \frac{24}{1319}\sqrt{890}e^{12}, \frac{8}{1319}\sqrt{3810}e^{13}, \frac{40}{1319}\sqrt{219}e^{15}, \frac{8}{1319}\sqrt{435}e^{16}$	$(\frac{196}{1319}, \frac{110}{1319}, -\frac{284}{1319}, -\frac{370}{1319}, \frac{306}{1319}, -\frac{88}{1319}, \frac{502}{1319}, \frac{108}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^2 \otimes e_4 + \frac{360}{1319}\sqrt{5}e^1 \otimes e_3$	{127, 145, 23578, 348}
842:21	$0, 0, 0, 0, \frac{4}{79}\sqrt{102}e^{12}, \frac{1}{79}\sqrt{714}e^{13}, \frac{3}{79}\sqrt{170}e^{15}, \frac{1}{79}\sqrt{510}e^{16}$	$(-\frac{19}{79}, \frac{30}{79}, \frac{17}{79}, \frac{43}{79}, \frac{11}{79}, -\frac{2}{79}, -\frac{8}{79}, -\frac{21}{79})$ $+ \frac{3}{79}\sqrt{374}e^4 \otimes e_7 + \frac{6}{79}\sqrt{102}e^2 \otimes e_8$	{12367, 1458, 2357, 468}
842:21	$0, 0, 0, 0, \frac{1}{685}\sqrt{94998}e^{12}, \frac{2}{685}\sqrt{10011}e^{13}, \frac{6}{685}\sqrt{1562}e^{15}, \frac{2}{685}\sqrt{11715}e^{16}$	$(\frac{41}{685}, \frac{123}{685}, -\frac{172}{685}, \frac{73}{685}, \frac{164}{685}, -\frac{131}{685}, \frac{41}{137}, -\frac{18}{137})$ $+ \frac{3}{685}\sqrt{12922}e^2 \otimes e_8 + \frac{3}{685}\sqrt{16046}e^1 \otimes e_3$	{1458, 158, 23457, 2357}
842:21	$0, 0, 0, 0, \frac{1}{22}\sqrt{70}e^{12}, \frac{1}{22}\sqrt{70}e^{13}, \frac{1}{22}\sqrt{70}e^{15}, \frac{1}{22}\sqrt{70}e^{16}$	$(-\frac{7}{22}, \frac{5}{11}, \frac{5}{11}, \frac{3}{22}, \frac{3}{22}, \frac{3}{22}, -\frac{2}{11}, -\frac{2}{11})$ $+ \frac{1}{22}\sqrt{266}e^2 \otimes e_8 + \frac{1}{22}\sqrt{266}e^3 \otimes e_7$	{12467, 1267, 2457, 257}
842:21	$0, 0, 0, 0, \frac{1}{22}\sqrt{70}e^{12}, \frac{1}{22}\sqrt{70}e^{13}, \frac{1}{22}\sqrt{70}e^{15}, \frac{1}{22}\sqrt{70}e^{16}$	$(-\frac{7}{22}, \frac{5}{11}, \frac{5}{11}, \frac{3}{22}, \frac{3}{22}, \frac{3}{22}, -\frac{2}{11}, -\frac{2}{11})$ $+ \frac{1}{22}\sqrt{266}e^2 \otimes e_8 - \frac{1}{22}\sqrt{266}e^3 \otimes e_7$	{12467, 1267, 2457, 257}
842:21	$0, 0, 0, 0, \frac{3}{79}\sqrt{170}e^{12}, \frac{1}{79}\sqrt{510}e^{13}, \frac{4}{79}\sqrt{102}e^{15}, \frac{1}{79}\sqrt{714}e^{16}$	$(-\frac{19}{79}, \frac{28}{79}, \frac{41}{79}, -\frac{23}{79}, \frac{9}{79}, \frac{22}{79}, -\frac{10}{79}, \frac{3}{79})$ $+ \frac{3}{79}\sqrt{374}e^2 \otimes e_4 + \frac{6}{79}\sqrt{102}e^3 \otimes e_7$	{12678, 1345, 2578, 346}
842:21	$0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}\sqrt{2}e^{13}, \frac{2}{5}\sqrt{2}e^{15}, \frac{2}{5}\sqrt{2}e^{16}$	$(\frac{1}{5}, 0, 0, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{2}{5}, \frac{2}{5})$ $+ \frac{4}{5}\sqrt{2}e^1 \otimes e_4$	{12378, 1267, 156, 2345678, 2457, 4}
842:21	$0, 0, 0, 0, \frac{2}{115}\sqrt{494}e^{12}, \frac{2}{115}\sqrt{209}e^{13}, \frac{2}{115}\sqrt{209}e^{15}, \frac{2}{115}\sqrt{494}e^{16}$	$(-\frac{4}{115}, \frac{33}{115}, \frac{3}{115}, -\frac{42}{115}, \frac{29}{115}, -\frac{1}{115}, \frac{5}{23}, -\frac{1}{23})$ $+ \frac{4}{115}\sqrt{266}e^1 \otimes e_4 + \frac{6}{115}\sqrt{95}e^2 \otimes e_8$	{1267, 1358, 2457, 3468}
842:21	$0, 0, 0, 0, \frac{10}{137}\sqrt{66}e^{12}, \frac{1}{137}\sqrt{5610}e^{13}, \frac{3}{137}\sqrt{2090}e^{15}, \frac{1}{137}\sqrt{5610}e^{16}$	$(-\frac{17}{137}, \frac{6}{137}, \frac{43}{137}, 1, -\frac{11}{137}, \frac{26}{137}, -\frac{28}{137}, \frac{9}{137})$ $+ \frac{3}{137}\sqrt{4070}e^4 \otimes e_7$	{123678, 127, 134568, 145, 23578, 2567, 348, 46}
842:22	$0, 0, 0, 0, \frac{20}{1739}\sqrt{105}e^{12}, \frac{40}{1739}\sqrt{426}e^{13}, \frac{20}{1739}\sqrt{978}e^{25}, \frac{20}{1739}\sqrt{957}e^{16}$	$(\frac{70}{1739}, -\frac{130}{1739}, \frac{410}{1739}, -\frac{530}{1739}, -\frac{60}{1739}, \frac{480}{1739}, -\frac{190}{1739}, \frac{550}{1739})$ $+ \frac{20}{1739}\sqrt{2283}e^1 \otimes e_4 + \frac{60}{1739}\sqrt{249}e^3 \otimes e_7$	{1267, 1567, 234568, 3468}
842:22	$0, 0, 0, 0, \frac{4}{303}\sqrt{2262}e^{12}, \frac{4}{303}\sqrt{174}e^{13}, \frac{4}{303}\sqrt{2929}e^{25}, \frac{20}{303}\sqrt{87}e^{16}$	$(-\frac{29}{101}, \frac{124}{303}, \frac{22}{101}, \frac{20}{303}, \frac{37}{101}, -\frac{7}{101}, \frac{161}{303}, -\frac{36}{101})$ $+ \frac{12}{101}\sqrt{87}e^2 \otimes e_8$	{123467, 12367, 14578, 1578, 2345, 235, 468, 68}
842:22	$0, 0, 0, 0, \frac{30}{913}\sqrt{95}e^{12}, \frac{30}{913}\sqrt{51}e^{13}, \frac{30}{913}\sqrt{89}e^{25}, \frac{15}{913}\sqrt{482}e^{16}$	$(-\frac{37}{913}, \frac{2}{11}, \frac{15}{913}, -\frac{262}{913}, \frac{129}{913}, -\frac{2}{83}, \frac{295}{913}, -\frac{59}{913})$ $+ \frac{15}{913}\sqrt{758}e^1 \otimes e_4 + \frac{15}{913}\sqrt{834}e^2 \otimes e_8$	{1267, 13578, 245, 3468}
842:22	$0, 0, 0, 0, \frac{1}{4}\sqrt{11}e^{12}, \frac{1}{24}\sqrt{66}e^{13}, \frac{1}{6}\sqrt{22}e^{25}, \frac{1}{24}\sqrt{66}e^{16}$	$(-\frac{1}{16}, \frac{7}{24}, \frac{1}{4}, -\frac{5}{8}, \frac{11}{48}, \frac{3}{16}, \frac{25}{48}, \frac{1}{8})$ $+ \frac{1}{24}\sqrt{858}e^2 \otimes e_4$	{123678, 127, 1345678, 1457, 2358, 256, 348, 46}
842:22	$0, 0, 0, 0, \frac{2}{117}\sqrt{1905}e^{12}, \frac{2}{117}\sqrt{127}e^{13}, \frac{4}{117}\sqrt{127}e^{25}, \frac{1}{117}\sqrt{7366}e^{16}$	$(\frac{20}{39}, -\frac{14}{117}, -\frac{67}{117}, \frac{8}{39}, \frac{46}{117}, -\frac{7}{117}, \frac{32}{117}, \frac{53}{117})$ $+ \frac{1}{117}\sqrt{23622}e^1 \otimes e_3$	{12478, 1278, 14578, 1578, 2345, 235, 3, 34}
842:22	$0, 0, 0, 0, \frac{38}{579}\sqrt{65}e^{12}, \frac{38}{1737}\sqrt{127}e^{13}, \frac{266}{1737}\sqrt{7}e^{25}, \frac{38}{1737}\sqrt{109}e^{16}$	$(\frac{115}{579}, \frac{101}{1737}, -\frac{377}{1737}, -\frac{69}{193}, \frac{446}{1737}, -\frac{32}{1737}, \frac{547}{1737}, \frac{313}{1737})$ $+ \frac{190}{1737}\sqrt{33}e^2 \otimes e_4 + \frac{76}{1737}\sqrt{177}e^1 \otimes e_3$	{1278, 14578, 235, 34}
842:22	$0, 0, 0, 0, \frac{6}{353}\sqrt{465}e^{12}, \frac{4}{353}\sqrt{930}e^{13}, \frac{8}{353}\sqrt{465}e^{25}, \frac{2}{353}\sqrt{6045}e^{16}$	$(-\frac{98}{353}, \frac{115}{353}, \frac{125}{353}, -\frac{61}{353}, \frac{17}{353}, \frac{27}{353}, \frac{132}{353}, -\frac{71}{353})$ $+ \frac{2}{353}\sqrt{10509}e^3 \otimes e_4 + \frac{4}{353}\sqrt{4371}e^2 \otimes e_8$	{12467, 13578, 245, 368}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:22	$0, 0, 0, 0, \frac{7}{597}\sqrt{1122}e^{12}, \frac{28}{199}\sqrt{33}e^{13}, \frac{7}{597}\sqrt{4378}e^{25}, \frac{7}{597}\sqrt{1254}e^{16}$	$(-\frac{34}{199}, -\frac{28}{597}, \frac{127}{199}, \frac{40}{199}, -\frac{130}{597}, \frac{93}{199}, -\frac{158}{597}, \frac{59}{199})$ $+\frac{7}{199}\sqrt{1166}e^3 \otimes e_7$	{123458, 12358, 1348, 138, 247, 27, 457, 57}
842:22	$0, 0, 0, 0, \frac{9}{101}\sqrt{14}e^{12}, \frac{9}{101}\sqrt{33}e^{13}, \frac{3}{101}\sqrt{255}e^{25}, \frac{3}{101}\sqrt{246}e^{16}$	$(-\frac{21}{101}, \frac{3}{101}, \frac{39}{101}, \frac{51}{101}, -\frac{18}{101}, \frac{18}{101}, -\frac{15}{101}, -\frac{3}{101})$ $+\frac{30}{101}\sqrt{6}e^3 \otimes e_7 + \frac{3}{101}\sqrt{447}e^4 \otimes e_8$	{12358, 138, 247, 457}
842:22	$0, 0, 0, 0, \frac{5}{807}\sqrt{1590}e^{12}, \frac{20}{807}\sqrt{159}e^{13}, \frac{1}{807}\sqrt{142570}e^{25}, \frac{5}{269}\sqrt{318}e^{16}$	$(-\frac{74}{269}, \frac{136}{807}, \frac{105}{269}, \frac{36}{269}, -\frac{86}{807}, \frac{31}{269}, \frac{50}{807}, -\frac{43}{269})$ $+\frac{1}{807}\sqrt{173310}e^3 \otimes e_7 + \frac{2}{807}\sqrt{49290}e^2 \otimes e_8$	{12467, 1267, 3468, 368}
842:22	$0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{18}\sqrt{286}e^{13}, \frac{1}{18}\sqrt{55}e^{25}, \frac{1}{18}\sqrt{77}e^{16}$	$(-\frac{1}{6}, \frac{2}{9}, \frac{23}{36}, -\frac{7}{12}, \frac{1}{18}, \frac{17}{36}, \frac{5}{18}, \frac{11}{36})$ $+\frac{1}{18}\sqrt{627}e^3 \otimes e_4$	{12358, 12456, 138, 146, 23678, 247, 35678, 457}
842:22	$0, 0, 0, 0, \frac{10}{523}\sqrt{313}e^{12}, \frac{2}{1569}\sqrt{68547}e^{13}, \frac{2}{1569}\sqrt{163699}e^{25}, \frac{2}{523}\sqrt{313}e^{16}$	$(-\frac{79}{523}, \frac{137}{1569}, \frac{221}{523}, -\frac{163}{523}, -\frac{100}{1569}, \frac{142}{523}, \frac{37}{1569}, \frac{63}{523})$ $+\frac{2}{1569}\sqrt{215031}e^2 \otimes e_4 + \frac{4}{523}\sqrt{5947}e^3 \otimes e_7$	{12678, 145678, 2356, 346}
842:22	$0, 0, 0, 0, \frac{2}{939}\sqrt{27534}e^{12}, \frac{2}{939}\sqrt{2118}e^{13}, \frac{1}{939}\sqrt{220978}e^{25}, \frac{10}{939}\sqrt{1059}e^{16}$	$(-\frac{58}{313}, \frac{137}{939}, \frac{44}{313}, \frac{151}{313}, -\frac{37}{939}, -\frac{14}{313}, \frac{100}{939}, -\frac{72}{313})$ $+\frac{1}{313}\sqrt{26122}e^4 \otimes e_7 + \frac{6}{313}\sqrt{1059}e^2 \otimes e_8$	{12367, 1578, 2345, 468}
842:22	$0, 0, 0, 0, \frac{53}{197}\sqrt{2}e^{12}, \frac{2}{197}\sqrt{265}e^{13}, \frac{4}{197}\sqrt{265}e^{25}, \frac{4}{197}\sqrt{318}e^{16}$	$(\frac{9}{197}, \frac{27}{197}, -\frac{44}{197}, \frac{23}{197}, \frac{36}{197}, -\frac{35}{197}, \frac{63}{197}, -\frac{26}{197})$ $+\frac{1}{197}\sqrt{10282}e^2 \otimes e_8 + \frac{1}{197}\sqrt{8162}e^1 \otimes e_3$	{14578, 1578, 2345, 235}
842:22	$0, 0, 0, 0, \frac{1}{117}\sqrt{1302}e^{12}, \frac{1}{117}\sqrt{155}e^{13}, \frac{1}{117}\sqrt{589}e^{25}, \frac{1}{117}\sqrt{4402}e^{16}$	$(\frac{7}{39}, -\frac{1}{117}, -\frac{41}{117}, \frac{7}{117}, \frac{20}{117}, -\frac{20}{117}, \frac{19}{117}, \frac{117}{117})$ $+\frac{1}{117}\sqrt{6045}e^4 \otimes e_8 + \frac{2}{39}\sqrt{186}e^1 \otimes e_3$	{12467, 14567, 23568, 368}
842:22	$0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{18}\sqrt{77}e^{13}, \frac{1}{18}\sqrt{55}e^{25}, \frac{1}{18}\sqrt{286}e^{16}$	$(-\frac{1}{6}, \frac{2}{9}, \frac{1}{9}, \frac{1}{18}, -\frac{1}{18}, \frac{5}{18}, -\frac{2}{9})$ $+\frac{1}{18}\sqrt{627}e^4 \otimes e_8$	{12358, 12456, 138, 146, 23678, 247, 35678, 457}
842:22	$0, 0, 0, 0, \frac{4}{1683}\sqrt{33405}e^{12}, \frac{8}{1683}\sqrt{262}e^{13}, \frac{4}{1683}\sqrt{39562}e^{25}, \frac{4}{1683}\sqrt{32881}e^{16}$	$(\frac{10}{33}, -\frac{326}{1683}, -\frac{538}{1683}, \frac{302}{561}, \frac{184}{1683}, -\frac{28}{1683}, -\frac{142}{1683}, \frac{482}{1683})$ $+\frac{20}{561}\sqrt{393}e^4 \otimes e_7 + \frac{4}{1683}\sqrt{101787}e^1 \otimes e_3$	{1278, 1578, 2345, 34}
842:22	$0, 0, 0, 0, \frac{1}{203}\sqrt{10266}e^{12}, \frac{2}{203}\sqrt{5133}e^{13}, \frac{2}{203}\sqrt{1239}e^{25}, \frac{2}{203}\sqrt{5133}e^{16}$	$(\frac{2}{7}, -\frac{1}{203}, -\frac{16}{203}, -\frac{17}{29}, \frac{57}{203}, \frac{6}{29}, \frac{8}{203}, \frac{100}{203})$ $+\frac{1}{203}\sqrt{56994}e^1 \otimes e_4$	{12378, 1267, 13578, 1567, 234568, 245, 3468, 4}
842:22	$0, 0, 0, 0, \frac{2}{195}\sqrt{723}e^{12}, \frac{2}{195}\sqrt{1446}e^{13}, \frac{1}{195}\sqrt{31330}e^{25}, \frac{2}{195}\sqrt{1446}e^{16}$	$(\frac{4}{65}, -\frac{29}{195}, \frac{2}{13}, 1, -\frac{17}{195}, \frac{14}{65}, -\frac{46}{195}, \frac{18}{65})$ $+\frac{1}{65}\sqrt{8194}e^4 \otimes e_7$	{12378, 1267, 13578, 1567, 234568, 245, 3468, 4}
842:23	$0, 0, 0, 0, \frac{6}{169}\sqrt{114}e^{12}, \frac{4}{169}\sqrt{38}e^{13}, \frac{4}{39}\sqrt{19}e^{25}, \frac{2}{507}\sqrt{8778}e^{36}$	$(-\frac{12}{169}, \frac{56}{507}, -\frac{10}{169}, \frac{76}{169}, \frac{20}{507}, -\frac{22}{169}, \frac{76}{507}, -\frac{32}{169})$ $+\frac{2}{507}\sqrt{12198}e^4 \otimes e_7 + \frac{4}{169}\sqrt{589}e^2 \otimes e_8$	{12367, 127, 348, 468}
842:23	$0, 0, 0, 0, \frac{3}{77}\sqrt{274}e^{12}, \frac{2}{231}\sqrt{822}e^{13}, \frac{1}{231}\sqrt{21098}e^{25}, \frac{1}{231}\sqrt{21098}e^{36}$	$(-\frac{8}{77}, \frac{73}{231}, -\frac{20}{231}, \frac{15}{77}, \frac{7}{33}, -\frac{4}{21}, \frac{122}{231}, -\frac{64}{231})$ $+\frac{2}{231}\sqrt{12741}e^2 \otimes e_8$	{123467, 12367, 1247, 127, 348, 38, 468, 68}
842:23	$0, 0, 0, 0, \frac{10}{281}\sqrt{47}e^{12}, \frac{10}{843}\sqrt{705}e^{13}, \frac{1}{843}\sqrt{132070}e^{25}, \frac{10}{281}\sqrt{94}e^{36}$	$(-\frac{41}{281}, \frac{49}{843}, \frac{70}{281}, -\frac{62}{281}, -\frac{74}{843}, \frac{29}{281}, -\frac{25}{843}, \frac{99}{281})$ $+\frac{1}{843}\sqrt{142410}e^2 \otimes e_4 + \frac{47}{281}\sqrt{10}e^3 \otimes e_7$	{12678, 145678, 2356, 346}
842:23	$0, 0, 0, 0, \frac{26}{223}\sqrt{47}e^{12}, \frac{1}{669}\sqrt{40326}e^{13}, \frac{1}{669}\sqrt{272506}e^{25}, \frac{1}{223}\sqrt{6110}e^{36}$	$(-\frac{22}{223}, \frac{212}{669}, \frac{41}{223}, -\frac{133}{223}, \frac{146}{669}, \frac{19}{223}, \frac{358}{669}, \frac{60}{223})$ $+\frac{2}{669}\sqrt{163137}e^2 \otimes e_4$	{12367, 127, 134567, 1457, 2358, 2568, 348, 468}
842:23	$0, 0, 0, 0, \frac{1}{14}\sqrt{105}e^{12}, \frac{1}{14}\sqrt{105}e^{13}, \frac{1}{14}\sqrt{30}e^{25}, \frac{1}{14}\sqrt{30}e^{36}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{3}{28}, -\frac{4}{7}, \frac{11}{28}, \frac{11}{28}, \frac{2}{7}, \frac{2}{7})$ $+\frac{1}{14}\sqrt{330}e^1 \otimes e_4$	{12378, 12678, 15678, 23456, 245, 4}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:23	$0, 0, 0, 0, \frac{14}{155}\sqrt{23}e^{12}, \frac{4}{155}\sqrt{46}e^{13}, \frac{23}{155}\sqrt{6}e^{25}, \frac{23}{155}\sqrt{6}e^{36}$	$(\frac{16}{155}, \frac{4}{31}, -\frac{21}{155}, -\frac{6}{31}, \frac{36}{155}, -\frac{1}{31}, \frac{56}{155}, -\frac{26}{155})$ $+\frac{1}{155}\sqrt{4738}e^1 \otimes e_4 + \frac{2}{155}\sqrt{1886}e^2 \otimes e_8$	{13578, 15678, 23456, 245}
842:23	$0, 0, 0, 0, \frac{2}{213}\sqrt{210}e^{12}, \frac{2}{213}\sqrt{210}e^{13}, \frac{2}{213}\sqrt{497}e^{25}, \frac{2}{213}\sqrt{497}e^{36}$	$(-\frac{11}{71}, \frac{19}{213}, \frac{19}{213}, \frac{9}{71}, -\frac{14}{213}, -\frac{14}{213}, \frac{5}{213}, \frac{5}{213})$ $+\frac{2}{213}\sqrt{651}e^2 \otimes e_8 + \frac{2}{213}\sqrt{651}e^3 \otimes e_7$	{145678, 15678, 23456, 2356}
842:23	$0, 0, 0, 0, \frac{1}{55}\sqrt{406}e^{12}, \frac{1}{55}\sqrt{406}e^{13}, \frac{1}{165}\sqrt{22330}e^{25}, \frac{2}{165}\sqrt{1218}e^{36}$	$(\frac{6}{55}, -\frac{28}{165}, \frac{1}{11}, 1, -\frac{2}{33}, \frac{1}{5}, -\frac{38}{165}, \frac{16}{55})$ $+\frac{1}{165}\sqrt{52374}e^4 \otimes e_7$	{12378, 12678, 13578, 15678, 23456, 245, 346, 4}
842:24	$0, 0, 0, 0, \frac{9}{775}\sqrt{786}e^{12}, \frac{81}{775}\sqrt{6}e^{13}, \frac{18}{775}\sqrt{357}e^{15},$ $\frac{9}{775}\sqrt{1194}e^{16} + \frac{18}{775}\sqrt{462}e^{23}$	$(-\frac{9}{775}, -\frac{18}{775}, \frac{207}{775}, -\frac{261}{775}, -\frac{27}{775}, \frac{198}{775}, -\frac{36}{775}, \frac{189}{775})$ $+\frac{54}{775}\sqrt{59}e^3 \otimes e_7 + \frac{9}{775}\sqrt{2046}e^2 \otimes e_4$	{134568, 348}
842:24	$0, 0, 0, 0, \frac{6}{899}\sqrt{1586}e^{12}, \frac{2}{899}\sqrt{35502}e^{13}, \frac{2}{899}\sqrt{116022}e^{15},$ $\frac{2}{899}\sqrt{54534}e^{16} + \frac{12}{899}\sqrt{3355}e^{23}$	$(-\frac{65}{899}, -\frac{130}{899}, \frac{472}{899}, \frac{161}{899}, -\frac{195}{899}, \frac{407}{899}, -\frac{260}{899}, \frac{342}{899})$ $+\frac{12}{899}\sqrt{7503}e^3 \otimes e_7$	{12345, 1235, 2346, 236}
842:24	$0, 0, 0, 0, \frac{12}{125}\sqrt{33}e^{12}, \frac{6}{125}\sqrt{286}e^{13}, \frac{2}{125}\sqrt{462}e^{15},$ $\frac{2}{125}\sqrt{330}e^{16} + \frac{66}{125}\sqrt{2}e^{23}$	$(\frac{4}{125}, \frac{8}{125}, \frac{53}{125}, -\frac{79}{125}, \frac{12}{125}, \frac{57}{125}, \frac{16}{125}, \frac{61}{125})$ $+\frac{12}{125}\sqrt{187}e^3 \otimes e_4$	{138, 146, 3568, 45}
842:24	$0, 0, 0, 0, \frac{1}{24}\sqrt{399}e^{12}, \frac{7}{24}\sqrt{6}e^{13}, \frac{1}{4}\sqrt{7}e^{15},$ $\frac{7}{24}\sqrt{6}e^{16} + \frac{1}{24}\sqrt{399}e^{23}$	$(\frac{5}{48}, \frac{5}{24}, \frac{1}{16}, -\frac{2}{3}, \frac{5}{16}, \frac{1}{6}, \frac{5}{12}, \frac{13}{48})$ $+\frac{1}{12}\sqrt{210}e^2 \otimes e_4$	{134568, 145, 348, 46}
842:24	$0, 0, 0, 0, \frac{12}{125}\sqrt{33}e^{12}, \frac{2}{125}\sqrt{330}e^{13}, \frac{2}{125}\sqrt{462}e^{15},$ $\frac{6}{125}\sqrt{286}e^{16} + \frac{66}{125}\sqrt{2}e^{23}$	$(\frac{4}{125}, \frac{8}{125}, -\frac{3}{25}, 1, \frac{12}{125}, -\frac{11}{125}, \frac{16}{125}, -\frac{7}{125})$ $+\frac{12}{125}\sqrt{187}e^4 \otimes e_8$	{138, 146, 3568, 45}
842:24	$0, 0, 0, 0, \frac{10}{73}\sqrt{17}e^{12}, \frac{1}{73}\sqrt{2210}e^{13}, \frac{1}{73}\sqrt{5610}e^{15},$ $\frac{1}{73}\sqrt{2210}e^{16} + \frac{10}{73}\sqrt{17}e^{23}$	$(-\frac{3}{73}, -\frac{6}{73}, \frac{17}{73}, 1, -\frac{9}{73}, \frac{14}{73}, -\frac{12}{73}, \frac{11}{73})$ $+\frac{1}{73}\sqrt{10030}e^4 \otimes e_7$	{134568, 145, 348, 46}
842:24	$0, 0, 0, 0, \frac{26}{521}\sqrt{22}e^{12}, \frac{13}{521}\sqrt{211}e^{13}, \frac{13}{521}\sqrt{255}e^{15},$ $\frac{13}{521}\sqrt{66}e^{16} + \frac{13}{521}\sqrt{66}e^{23}$	$(-\frac{13}{1042}, -\frac{13}{521}, \frac{143}{521}, -\frac{351}{1042}, -\frac{39}{1042}, \frac{273}{1042}, -\frac{26}{521}, \frac{130}{521})$ $+\frac{13}{521}\sqrt{435}e^3 \otimes e_7 + \frac{13}{521}\sqrt{479}e^1 \otimes e_4$	{1358, 3468}
842:24	$0, 0, 0, 0, \frac{2}{61}\sqrt{286}e^{12}, \frac{2}{61}\sqrt{374}e^{13}, \frac{6}{61}\sqrt{22}e^{15},$ $\frac{2}{61}\sqrt{374}e^{16} + \frac{4}{61}\sqrt{66}e^{23}$	$(\frac{5}{61}, \frac{10}{61}, \frac{6}{61}, -\frac{39}{61}, \frac{15}{61}, \frac{11}{61}, \frac{20}{61}, \frac{16}{61})$ $+\frac{20}{61}\sqrt{11}e^1 \otimes e_4$	{12378, 1267, 2345678, 2457}
842:24	$0, 0, 0, 0, \frac{31}{2319}\sqrt{514}e^{12}, \frac{31}{773}\sqrt{38}e^{13}, \frac{62}{2319}\sqrt{190}e^{15},$ $\frac{31}{2319}\sqrt{190}e^{16} + \frac{62}{2319}\sqrt{385}e^{23}$	$(-\frac{124}{2319}, -\frac{248}{2319}, \frac{155}{773}, \frac{1178}{2319}, -\frac{124}{773}, \frac{341}{2319}, -\frac{496}{2319}, \frac{217}{2319})$ $+\frac{31}{2319}\sqrt{1826}e^4 \otimes e_8 + \frac{31}{2319}\sqrt{2282}e^3 \otimes e_7$	{1467, 457}
842:25	$0, 0, 0, 0, \frac{9}{17}e^{12}, \frac{3}{17}\sqrt{19}e^{13}, \frac{3}{34}\sqrt{10}e^{25},$ $\frac{3}{34}\sqrt{2}e^{16} + \frac{6}{17}\sqrt{5}e^{23}$	$(\frac{1}{34}, \frac{1}{17}, \frac{29}{68}, -\frac{43}{68}, \frac{3}{34}, \frac{31}{68}, \frac{5}{34}, \frac{33}{68})$ $+\frac{3}{34}\sqrt{222}e^3 \otimes e_4$	{1378, 1467, 3568, 45}
842:25	$0, 0, 0, 0, \frac{4}{91}\sqrt{15}e^{12}, \frac{8}{91}\sqrt{30}e^{13}, \frac{2}{91}\sqrt{285}e^{25},$ $\frac{20}{91}\sqrt{3}e^{16} + \frac{6}{91}\sqrt{15}e^{23}$	$(-\frac{1}{91}, -\frac{2}{91}, \frac{25}{91}, -\frac{31}{91}, -\frac{3}{91}, \frac{24}{91}, -\frac{5}{91}, \frac{23}{91})$ $+\frac{12}{91}\sqrt{15}e^3 \otimes e_7 + \frac{2}{91}\sqrt{645}e^1 \otimes e_4$	{1267, 234568}
842:25	$0, 0, 0, 0, \frac{2}{379}\sqrt{4313}e^{12}, \frac{2}{379}\sqrt{8626}e^{13}, \frac{24}{379}\sqrt{227}e^{25},$ $\frac{2}{379}\sqrt{8626}e^{16} + \frac{2}{379}\sqrt{12031}e^{23}$	$(-\frac{15}{379}, -\frac{30}{379}, \frac{95}{379}, 1, -\frac{45}{379}, \frac{80}{379}, -\frac{75}{379}, \frac{65}{379})$ $+\frac{2}{379}\sqrt{67873}e^4 \otimes e_7$	{12378, 1267, 234568, 245}
842:25	$0, 0, 0, 0, \frac{4}{43}\sqrt{30}e^{12}, \frac{8}{43}\sqrt{15}e^{13}, \frac{2}{43}\sqrt{105}e^{25},$ $\frac{8}{43}\sqrt{15}e^{16} + \frac{2}{43}\sqrt{195}e^{23}$	$(\frac{3}{43}, \frac{6}{43}, \frac{5}{43}, -\frac{27}{43}, \frac{9}{43}, \frac{8}{43}, \frac{15}{43}, \frac{11}{43})$ $+\frac{10}{43}\sqrt{21}e^1 \otimes e_4$	{12378, 1267, 234568, 245}
842:25	$0, 0, 0, 0, \frac{9}{577}\sqrt{770}e^{12}, \frac{12}{577}\sqrt{1265}e^{13}, \frac{3}{577}\sqrt{17930}e^{25},$ $\frac{3}{577}\sqrt{3190}e^{16} + \frac{132}{577}\sqrt{5}e^{23}$	$(-\frac{38}{577}, -\frac{76}{577}, \frac{305}{577}, \frac{112}{577}, -\frac{114}{577}, \frac{267}{577}, -\frac{190}{577}, \frac{229}{577})$ $+\frac{15}{577}\sqrt{2046}e^3 \otimes e_7$	{1348, 138, 457, 57}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:25	$0, 0, 0, 0, \frac{4}{23}\sqrt{19}e^{12}, \frac{1}{23}\sqrt{114}e^{13}, \frac{2}{23}\sqrt{57}e^{25},$ $\frac{1}{23}\sqrt{114}e^{16} + \frac{1}{23}\sqrt{190}e^{23}$	$(\frac{2}{23}, \frac{4}{23}, \frac{2}{23}, -\frac{15}{23}, \frac{6}{23}, \frac{4}{23}, \frac{10}{23}, \frac{6}{23})$ $+\frac{19}{23}\sqrt{2}e^2 \otimes e_4$	{1345678, 1457, 348, 46}
842:25	$0, 0, 0, 0, \frac{62}{3005}\sqrt{181}e^{12}, \frac{62}{3005}\sqrt{111}e^{13}, \frac{62}{3005}\sqrt{399}e^{25},$ $\frac{62}{3005}\sqrt{105}e^{16} + \frac{31}{3005}\sqrt{1222}e^{23}$	$(-\frac{31}{3005}, -\frac{62}{3005}, \frac{806}{3005}, -\frac{1023}{3005}, -\frac{93}{3005}, \frac{155}{601}, -\frac{31}{601}, \frac{744}{3005})$ $+\frac{1116}{3005}\sqrt{2}e^3 \otimes e_7 + \frac{62}{3005}\sqrt{683}e^2 \otimes e_4$	{12678, 2356}
842:25	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{1}{7}\sqrt{5}e^{25},$ $\frac{1}{7}\sqrt{6}e^{16} + \frac{1}{7}\sqrt{10}e^{23}$	$(-\frac{1}{21}, -\frac{2}{21}, \frac{4}{21}, \frac{11}{21}, -\frac{1}{7}, \frac{1}{7}, -\frac{5}{21}, \frac{2}{21})$ $+\frac{1}{7}\sqrt{17}e^4 \otimes e_8 + \frac{2}{7}\sqrt{5}e^3 \otimes e_7$	{138, 457}
842:25	$0, 0, 0, 0, \frac{9}{17}e^{12}, \frac{3}{34}\sqrt{2}e^{13}, \frac{3}{34}\sqrt{10}e^{25},$ $\frac{3}{17}\sqrt{19}e^{16} + \frac{6}{17}\sqrt{5}e^{23}$	$(\frac{1}{34}, \frac{1}{17}, -\frac{2}{17}, \frac{1}{34}, -\frac{3}{34}, \frac{5}{34}, -\frac{1}{17})$ $+\frac{3}{34}\sqrt{222}e^4 \otimes e_8$	{1378, 1467, 3568, 45}
842:26	$0, 0, 0, 0, \frac{240}{1007}\sqrt{11}e^{12}, \frac{12}{1007}\sqrt{2167}e^{13}, \frac{12}{53}\sqrt{11}e^{15},$ $\frac{132}{1007}\sqrt{11}e^{16} + \frac{36}{1007}\sqrt{143}e^{24}$	$(\frac{322}{1007}, -\frac{113}{1007}, -\frac{470}{1007}, \frac{287}{1007}, \frac{11}{53}, -\frac{148}{1007}, \frac{531}{1007}, \frac{174}{1007})$ $+\frac{36}{1007}\sqrt{1023}e^1 \otimes e_3$	{12478, 158, 2357, 34}
842:26	$0, 0, 0, 0, \frac{1}{42}\sqrt{266}e^{12}, \frac{1}{42}\sqrt{210}e^{13}, \frac{1}{6}\sqrt{10}e^{15},$ $\frac{1}{21}\sqrt{21}e^{16} + \frac{1}{42}\sqrt{154}e^{24}$	$(\frac{1}{6}, -\frac{1}{4}, -\frac{1}{6}, \frac{5}{12}, -\frac{1}{12}, 0, \frac{1}{12}, \frac{1}{6})$ $+\frac{1}{21}\sqrt{133}e^1 \otimes e_3 + \frac{1}{42}\sqrt{518}e^4 \otimes e_7$	{23578, 348}
842:26	$0, 0, 0, 0, \frac{2}{251}\sqrt{969}e^{12}, \frac{2}{251}\sqrt{2703}e^{13}, \frac{30}{251}\sqrt{51}e^{15},$ $\frac{12}{251}\sqrt{170}e^{16} + \frac{6}{251}\sqrt{1139}e^{24}$	$(\frac{7}{251}, -\frac{135}{502}, \frac{69}{251}, \frac{301}{502}, -\frac{121}{502}, \frac{76}{251}, -\frac{107}{502}, \frac{83}{251})$ $+\frac{6}{251}\sqrt{2363}e^4 \otimes e_7$	{123678, 134568, 23578, 348}
842:26	$0, 0, 0, 0, \frac{2}{347}\sqrt{2431}e^{12}, \frac{6}{347}\sqrt{1870}e^{13}, \frac{6}{347}\sqrt{1870}e^{15},$ $\frac{2}{347}\sqrt{2431}e^{16} + \frac{8}{347}\sqrt{374}e^{24}$	$(-\frac{84}{347}, \frac{51}{347}, \frac{257}{347}, \frac{38}{347}, -\frac{33}{347}, \frac{173}{347}, -\frac{117}{347}, \frac{89}{347})$ $+\frac{2}{347}\sqrt{51799}e^3 \otimes e_7$	{12345, 14678, 2346, 4578}
842:26	$0, 0, 0, 0, \frac{16}{387}\sqrt{170}e^{12}, \frac{64}{387}\sqrt{5}e^{13}, \frac{16}{387}\sqrt{105}e^{15},$ $\frac{16}{387}\sqrt{3}e^{16} + \frac{16}{387}\sqrt{46}e^{24}$	$(\frac{40}{387}, \frac{20}{129}, -\frac{88}{387}, -\frac{68}{387}, \frac{100}{387}, -\frac{16}{129}, \frac{140}{387}, -\frac{8}{387})$ $+\frac{16}{387}\sqrt{149}e^2 \otimes e_4 + \frac{16}{387}\sqrt{203}e^1 \otimes e_3$	{2357, 34}
842:26	$0, 0, 0, 0, \frac{41}{2605}\sqrt{970}e^{12}, \frac{533}{2605}\sqrt{2}e^{13}, \frac{82}{2605}\sqrt{265}e^{15},$ $\frac{41}{2605}\sqrt{474}e^{16} + \frac{82}{2605}\sqrt{14}e^{24}$	$(-\frac{123}{521}, \frac{902}{2605}, \frac{1353}{2605}, -\frac{779}{2605}, \frac{738}{2605}, \frac{328}{2605}, -\frac{123}{2605}, \frac{123}{2605})$ $+\frac{779}{2605}\sqrt{6}e^2 \otimes e_4 + \frac{82}{2605}\sqrt{595}e^3 \otimes e_7$	{12678, 2578}
842:26	$0, 0, 0, 0, \frac{6}{35}\sqrt{35}e^{12}, \frac{3}{35}\sqrt{42}e^{13}, \frac{2}{35}\sqrt{105}e^{15},$ $\frac{4}{35}\sqrt{21}e^{16} + \frac{3}{35}\sqrt{14}e^{24}$	$(-\frac{1}{7}, \frac{43}{70}, \frac{11}{35}, -\frac{41}{70}, \frac{33}{70}, \frac{6}{35}, \frac{23}{70}, \frac{1}{35})$ $+\frac{3}{35}\sqrt{266}e^2 \otimes e_4$	{127, 145, 2567, 46}
842:27	$0, 0, 0, 0, \frac{2}{253}\sqrt{1921}e^{12}, \frac{6}{253}\sqrt{1130}e^{13}, \frac{6}{253}\sqrt{1130}e^{25},$ $\frac{4}{253}\sqrt{791}e^{16} + \frac{2}{253}\sqrt{1921}e^{24}$	$(-\frac{51}{253}, -\frac{6}{253}, \frac{163}{253}, \frac{67}{253}, -\frac{57}{253}, \frac{112}{253}, -\frac{63}{253}, \frac{61}{253})$ $+\frac{2}{253}\sqrt{22939}e^3 \otimes e_7$	{123458, 138, 27, 457}
842:27	$0, 0, 0, 0, \frac{33}{3581}\sqrt{2930}e^{12}, \frac{165}{3581}\sqrt{30}e^{13}, \frac{462}{3581}\sqrt{10}e^{25},$ $\frac{66}{3581}\sqrt{197}e^{16} + \frac{231}{3581}\sqrt{34}e^{24}$	$(\frac{330}{3581}, \frac{495}{3581}, -\frac{759}{3581}, -\frac{594}{3581}, \frac{825}{3581}, -\frac{429}{3581}, \frac{1320}{3581}, -\frac{99}{3581})$ $+\frac{33}{3581}\sqrt{3534}e^2 \otimes e_4 + \frac{66}{3581}\sqrt{737}e^1 \otimes e_3$	{235, 34}
842:27	$0, 0, 0, 0, \frac{12}{1217}\sqrt{6486}e^{12}, \frac{72}{1217}\sqrt{23}e^{13}, \frac{6}{1217}\sqrt{10281}e^{25},$ $\frac{24}{1217}\sqrt{1518}e^{16} + \frac{6}{1217}\sqrt{14835}e^{24}$	$(\frac{537}{1217}, -\frac{78}{1217}, -\frac{705}{1217}, \frac{447}{1217}, \frac{459}{1217}, -\frac{168}{1217}, \frac{381}{1217}, \frac{369}{1217})$ $+\frac{6}{1217}\sqrt{67965}e^1 \otimes e_3$	{12478, 1578, 235, 34}
842:27	$0, 0, 0, 0, \frac{33}{3197}\sqrt{1310}e^{12}, \frac{33}{3197}\sqrt{698}e^{13}, \frac{66}{3197}\sqrt{623}e^{25},$ $\frac{66}{3197}\sqrt{41}e^{16} + \frac{33}{3197}\sqrt{1082}e^{24}$	$(-\frac{726}{3197}, \frac{495}{3197}, \frac{1353}{3197}, -\frac{594}{3197}, -\frac{231}{3197}, \frac{627}{3197}, \frac{264}{3197}, -\frac{99}{3197})$ $+\frac{33}{3197}\sqrt{2990}e^2 \otimes e_4 + \frac{66}{3197}\sqrt{671}e^3 \otimes e_7$	{1267, 14567}
842:27	$0, 0, 0, 0, \frac{2}{621}\sqrt{10065}e^{12}, \frac{2}{621}\sqrt{17446}e^{13}, \frac{1}{621}\sqrt{202642}e^{25},$ $\frac{2}{621}\sqrt{1342}e^{16} + \frac{4}{621}\sqrt{14091}e^{24}$	$(\frac{4}{23}, -\frac{163}{621}, \frac{74}{621}, \frac{151}{207}, -\frac{55}{621}, \frac{182}{621}, -\frac{218}{621}, \frac{290}{621})$ $+\frac{11}{207}\sqrt{610}e^4 \otimes e_7$	{12345, 1468, 278, 3567}
842:27	$0, 0, 0, 0, \frac{4}{27}\sqrt{33}e^{12}, \frac{1}{27}\sqrt{110}e^{13}, \frac{22}{27}e^{25},$ $\frac{1}{27}\sqrt{22}e^{16} + \frac{2}{27}\sqrt{66}e^{24}$	$(-\frac{1}{6}, \frac{10}{27}, \frac{7}{27}, -\frac{4}{9}, \frac{11}{54}, \frac{5}{54}, \frac{31}{54}, -\frac{2}{27})$ $+\frac{1}{9}\sqrt{110}e^2 \otimes e_4$	{127, 1457, 256, 46}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:28	$0, 0, 0, 0, \frac{30}{559}\sqrt{61}e^{12}, \frac{18}{559}\sqrt{427}e^{13}, \frac{3}{559}\sqrt{12322}e^{15},$ $\frac{6}{559}\sqrt{3965}e^{14} + \frac{12}{559}\sqrt{61}e^{36}$	$(\frac{252}{559}, -\frac{297}{559}, -\frac{12}{559}, -\frac{24}{559}, -\frac{45}{559}, \frac{240}{559}, \frac{207}{559}, \frac{228}{559})$ $+ \frac{3}{559}\sqrt{55266}e^1 \otimes e_2$	{1347, 1467, 23468, 248}
842:28	$0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{6}e^{15},$ $\frac{1}{7}\sqrt{10}e^{14} + \frac{1}{7}\sqrt{5}e^{36}$	$(-\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, 0)$ $+ \frac{1}{7}\sqrt{17}e^4 \otimes e_7 + \frac{2}{7}\sqrt{5}e^2 \otimes e_8$	{348, 468}
842:28	$0, 0, 0, 0, \frac{9}{221}\sqrt{35}e^{12}, \frac{27}{221}\sqrt{2}e^{13}, \frac{63}{221}\sqrt{2}e^{15},$ $\frac{9}{221}\sqrt{130}e^{14} + \frac{9}{221}\sqrt{29}e^{36}$	$(\frac{18}{221}, -\frac{63}{221}, \frac{27}{221}, \frac{54}{221}, -\frac{45}{221}, \frac{45}{221}, -\frac{27}{221}, \frac{72}{221})$ $+ \frac{18}{221}\sqrt{5}e^1 \otimes e_2 + \frac{9}{221}\sqrt{195}e^4 \otimes e_7$	{23468, 248}
842:28	$0, 0, 0, 0, \frac{8}{43}\sqrt{15}e^{12}, \frac{4}{43}\sqrt{30}e^{13}, \frac{8}{43}\sqrt{15}e^{15},$ $\frac{2}{43}\sqrt{195}e^{14} + \frac{2}{43}\sqrt{105}e^{36}$	$(\frac{16}{43}, -\frac{8}{43}, -\frac{7}{43}, -\frac{14}{43}, \frac{8}{43}, \frac{9}{43}, \frac{24}{43}, \frac{2}{43})$ $+ \frac{10}{43}\sqrt{21}e^1 \otimes e_4$	{234567, 2457, 346, 4}
842:28	$0, 0, 0, 0, \frac{8}{91}\sqrt{30}e^{12}, \frac{4}{91}\sqrt{15}e^{13}, \frac{20}{91}\sqrt{3}e^{15},$ $\frac{6}{91}\sqrt{15}e^{14} + \frac{2}{91}\sqrt{285}e^{36}$	$(\frac{8}{91}, \frac{16}{91}, -\frac{11}{91}, -\frac{22}{91}, \frac{24}{91}, -\frac{3}{91}, \frac{32}{91}, -\frac{2}{91})$ $+ \frac{12}{91}\sqrt{15}e^2 \otimes e_8 + \frac{2}{91}\sqrt{645}e^1 \otimes e_4$	{234567, 2457}
842:28	$0, 0, 0, 0, \frac{756}{2423}e^{12}, \frac{27}{2423}\sqrt{654}e^{13}, \frac{27}{2423}\sqrt{1046}e^{15},$ $\frac{108}{2423}\sqrt{41}e^{14} + \frac{27}{2423}\sqrt{1834}e^{36}$	$(-\frac{594}{2423}, \frac{783}{2423}, \frac{324}{2423}, \frac{648}{2423}, \frac{189}{2423}, -\frac{270}{2423}, -\frac{405}{2423}, \frac{54}{2423})$ $+ \frac{216}{2423}\sqrt{39}e^3 \otimes e_7 + \frac{81}{2423}\sqrt{190}e^2 \otimes e_8$	{13458, 2457}
842:28	$0, 0, 0, 0, \frac{3}{17}\sqrt{2}e^{12}, \frac{9}{17}e^{13}, \frac{3}{17}\sqrt{19}e^{15},$ $\frac{6}{17}\sqrt{5}e^{14} + \frac{3}{34}\sqrt{10}e^{36}$	$(-\frac{9}{34}, \frac{3}{17}, \frac{6}{17}, \frac{12}{17}, -\frac{3}{34}, \frac{3}{34}, -\frac{6}{17}, \frac{15}{34})$ $+ \frac{3}{34}\sqrt{222}e^4 \otimes e_7$	{123678, 1278, 2357, 2567}
842:28	$0, 0, 0, 0, \frac{12}{577}\sqrt{1265}e^{12}, \frac{9}{577}\sqrt{770}e^{13}, \frac{3}{577}\sqrt{3190}e^{15},$ $\frac{132}{577}\sqrt{5}e^{14} + \frac{9}{577}\sqrt{17930}e^{36}$	$(-\frac{126}{577}, \frac{393}{577}, \frac{12}{577}, \frac{24}{577}, \frac{267}{577}, -\frac{114}{577}, \frac{141}{577}, -\frac{102}{577})$ $+ \frac{15}{577}\sqrt{2046}e^2 \otimes e_8$	{123467, 1247, 348, 468}
842:28	$0, 0, 0, 0, \frac{6}{385}\sqrt{39}e^{12}, \frac{6}{77}\sqrt{2}e^{13}, \frac{3}{385}\sqrt{278}e^{15},$ $\frac{6}{385}\sqrt{66}e^{14} + \frac{6}{385}\sqrt{59}e^{36}$	$(\frac{17}{385}, -\frac{39}{385}, \frac{4}{385}, \frac{8}{385}, -\frac{2}{35}, \frac{3}{55}, -\frac{1}{77}, \frac{5}{77})$ $+ \frac{3}{385}\sqrt{326}e^1 \otimes e_4 + \frac{3}{385}\sqrt{366}e^3 \otimes e_7$	{2457, 346}
842:28	$0, 0, 0, 0, \frac{54}{2891}\sqrt{29}e^{12}, \frac{54}{2891}\sqrt{41}e^{13}, \frac{27}{2891}\sqrt{1586}e^{15},$ $\frac{54}{2891}\sqrt{155}e^{14} + \frac{108}{2891}\sqrt{91}e^{36}$	$(\frac{108}{2891}, -\frac{621}{2891}, \frac{324}{2891}, \frac{648}{2891}, -\frac{513}{2891}, \frac{432}{2891}, -\frac{405}{2891}, \frac{108}{413})$ $+ \frac{81}{2891}\sqrt{226}e^1 \otimes e_2 + \frac{864}{2891}\sqrt{3}e^3 \otimes e_7$	{14678, 2346}
842:28	$0, 0, 0, 0, \frac{36}{1151}\sqrt{74}e^{12}, \frac{36}{1151}\sqrt{354}e^{13}, \frac{36}{1151}\sqrt{391}e^{15},$ $\frac{72}{1151}\sqrt{94}e^{14} + \frac{36}{1151}\sqrt{509}e^{36}$	$(-\frac{243}{1151}, \frac{126}{1151}, \frac{288}{1151}, \frac{576}{1151}, -\frac{117}{1151}, \frac{45}{1151}, -\frac{360}{1151}, \frac{333}{1151})$ $+ \frac{36}{1151}\sqrt{951}e^3 \otimes e_7$	{124678, 13458, 2457, 346}
842:29	$0, 0, 0, 0, \frac{4}{79}\sqrt{102}e^{12}, \frac{4}{79}\sqrt{138}e^{13}, \frac{12}{79}\sqrt{19}e^{15},$ $\frac{4}{79}\sqrt{138}e^{16} + \frac{12}{79}\sqrt{19}e^{34}$	$(\frac{11}{79}, -\frac{24}{79}, -\frac{1}{79}, \frac{22}{79}, -\frac{13}{79}, \frac{10}{79}, -\frac{2}{79}, \frac{21}{79})$ $+ \frac{12}{79}\sqrt{23}e^4 \otimes e_7$	{123678, 127, 23578, 2567}
842:29	$0, 0, 0, 0, \frac{6}{79}\sqrt{30}e^{12}, \frac{2}{79}\sqrt{138}e^{13}, \frac{6}{79}\sqrt{30}e^{15},$ $\frac{2}{79}\sqrt{138}e^{16} + \frac{4}{79}\sqrt{102}e^{34}$	$(-\frac{12}{79}, \frac{22}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{10}{79}, \frac{10}{79}, -\frac{2}{79}, -\frac{2}{79})$ $+ \frac{6}{79}\sqrt{46}e^2 \otimes e_8 - \frac{6}{79}\sqrt{46}e^3 \otimes e_7$	{127, 13568, 2567, 38}
842:29	$0, 0, 0, 0, \frac{6}{79}\sqrt{30}e^{12}, \frac{2}{79}\sqrt{138}e^{13}, \frac{6}{79}\sqrt{30}e^{15},$ $\frac{2}{79}\sqrt{138}e^{16} + \frac{4}{79}\sqrt{102}e^{34}$	$(-\frac{12}{79}, \frac{22}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{10}{79}, \frac{10}{79}, -\frac{2}{79}, -\frac{2}{79})$ $+ \frac{6}{79}\sqrt{46}e^2 \otimes e_8 + \frac{6}{79}\sqrt{46}e^3 \otimes e_7$	{127, 13568, 2567, 38}
842:29	$0, 0, 0, 0, \frac{14}{473}\sqrt{102}e^{12}, \frac{14}{473}\sqrt{237}e^{13}, \frac{7}{473}\sqrt{438}e^{15},$ $\frac{168}{473}e^{16} + \frac{42}{473}e^{34}$	$(\frac{28}{473}, -\frac{119}{473}, \frac{84}{473}, \frac{56}{473}, -\frac{91}{473}, \frac{112}{473}, -\frac{63}{473}, \frac{140}{473})$ $+ \frac{21}{473}\sqrt{158}e^1 \otimes e_2 + \frac{42}{473}\sqrt{31}e^3 \otimes e_7$	{1467, 23468}
842:29	$0, 0, 0, 0, \frac{2}{19}\sqrt{39}e^{12}, \frac{2}{19}\sqrt{66}e^{13}, \frac{2}{19}\sqrt{6}e^{15},$ $\frac{2}{19}\sqrt{66}e^{16} + \frac{2}{19}\sqrt{39}e^{34}$	$(\frac{9}{38}, -\frac{15}{38}, -\frac{2}{19}, \frac{9}{19}, -\frac{3}{19}, \frac{5}{38}, \frac{3}{38}, \frac{7}{19})$ $+ \frac{6}{19}\sqrt{11}e^1 \otimes e_2$	{1348, 146, 234678, 247}
842:29	$0, 0, 0, 0, \frac{4}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{87}e^{13}, \frac{1}{25}\sqrt{282}e^{15},$ $\frac{2}{25}\sqrt{87}e^{16} + \frac{2}{25}\sqrt{87}e^{34}$	$(0, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{18}{25}e^4 \otimes e_7 + \frac{3}{25}\sqrt{22}e^1 \otimes e_2$	{123678, 127}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:29	$0, 0, 0, 0, \frac{3}{175}\sqrt{381}e^{12}, \frac{9}{175}\sqrt{74}e^{13}, \frac{3}{175}\sqrt{186}e^{15},$ $\frac{12}{175}\sqrt{33}e^{16} + \frac{3}{175}\sqrt{381}e^{34}$	$(\frac{3}{350}, -\frac{51}{350}, \frac{6}{35}, \frac{3}{175}, -\frac{24}{175}, \frac{9}{50}, -\frac{9}{70}, \frac{33}{175})$ $+ \frac{9}{175}\sqrt{46}e^3 \otimes e_4 + \frac{9}{175}\sqrt{65}e^1 \otimes e_2$	{146, 247}
842:29	$0, 0, 0, 0, \frac{1}{605}\sqrt{1578}e^{12}, \frac{1}{605}\sqrt{1794}e^{13}, \frac{3}{605}\sqrt{206}e^{15},$ $\frac{2}{605}\sqrt{345}e^{16} + \frac{18}{605}\sqrt{7}e^{34}$	$(\frac{2}{121}, -\frac{3}{605}, -\frac{26}{605}, \frac{4}{121}, \frac{7}{605}, -\frac{16}{605}, \frac{17}{605}, -\frac{6}{605})$ $+ \frac{3}{605}\sqrt{138}e^2 \otimes e_8 + \frac{3}{605}\sqrt{230}e^4 \otimes e_7$	{127, 2567}
842:29	$0, 0, 0, 0, \frac{2}{75}\sqrt{714}e^{12}, \frac{28}{25}e^{13}, \frac{2}{75}\sqrt{714}e^{15},$ $\frac{14}{25}\sqrt{2}e^{16} + \frac{2}{75}\sqrt{714}e^{34}$	$(-\frac{17}{75}, \frac{29}{75}, \frac{2}{3}, -\frac{34}{75}, \frac{4}{25}, \frac{11}{25}, -\frac{1}{15}, \frac{16}{75})$ $+ \frac{14}{25}\sqrt{6}e^3 \otimes e_4$	{124567, 146, 247, 45}
842:29	$0, 0, 0, 0, \frac{18}{397}\sqrt{105}e^{12}, \frac{27}{397}\sqrt{10}e^{13}, \frac{9}{397}\sqrt{6}e^{15},$ $\frac{9}{397}\sqrt{258}e^{16} + \frac{18}{397}\sqrt{105}e^{34}$	$(-\frac{72}{397}, \frac{198}{397}, \frac{99}{397}, -\frac{144}{397}, \frac{126}{397}, \frac{27}{397}, \frac{54}{397}, -\frac{45}{397})$ $+ \frac{27}{397}\sqrt{142}e^2 \otimes e_8 + \frac{27}{397}\sqrt{86}e^3 \otimes e_4$	{13578, 3678}
842:30	$0, 0, 0, 0, \frac{2}{1361}\sqrt{1034}e^{12}, \frac{22}{1361}\sqrt{1457}e^{13}, \frac{4}{1361}\sqrt{43945}e^{15},$ $\frac{2}{1361}\sqrt{36190}e^{24} + \frac{6}{1361}\sqrt{27401}e^{36}$	$(-\frac{414}{1361}, \frac{337}{1361}, \frac{543}{1361}, \frac{335}{1361}, -\frac{77}{1361}, \frac{129}{1361}, -\frac{491}{1361}, \frac{672}{1361})$ $+ \frac{4}{1361}\sqrt{141658}e^3 \otimes e_7$	{123458, 1678, 236, 457}
842:30	$0, 0, 0, 0, \frac{4}{81}\sqrt{37}e^{12}, \frac{2}{81}\sqrt{111}e^{13}, \frac{4}{81}\sqrt{259}e^{15},$ $\frac{2}{81}\sqrt{1110}e^{24} + \frac{2}{81}\sqrt{185}e^{36}$	$(-\frac{2}{27}, -\frac{11}{81}, \frac{23}{81}, \frac{17}{27}, -\frac{17}{81}, \frac{17}{81}, -\frac{23}{81}, \frac{40}{81})$ $+ \frac{2}{81}\sqrt{2442}e^4 \otimes e_7$	{234, 246, 357, 567}
842:30	$0, 0, 0, 0, \frac{5}{98}\sqrt{58}e^{12}, \frac{5}{49}\sqrt{11}e^{13}, \frac{5}{98}\sqrt{73}e^{15},$ $\frac{5}{98}\sqrt{34}e^{24} + \frac{15}{98}\sqrt{11}e^{36}$	$(-\frac{15}{49}, \frac{20}{49}, \frac{15}{49}, -\frac{5}{49}, \frac{5}{49}, 0, -\frac{10}{49}, \frac{15}{49})$ $+ \frac{10}{49}\sqrt{13}e^3 \otimes e_7 + \frac{5}{98}\sqrt{129}e^2 \otimes e_4$	{257, 346}
842:30	$0, 0, 0, 0, \frac{2}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{6}e^{13}, \frac{1}{5}\sqrt{6}e^{15},$ $\frac{1}{5}\sqrt{6}e^{24} + \frac{1}{5}\sqrt{6}e^{36}$	$(-\frac{1}{5}, \frac{7}{10}, \frac{1}{5}, -\frac{1}{2}, \frac{1}{2}, 0, \frac{3}{10}, \frac{1}{5})$ $+ \frac{4}{5}\sqrt{3}e^2 \otimes e_4$	{12367, 127, 13456, 145}
842:31	$0, 0, 0, 0, \frac{2}{115}\sqrt{314}e^{12}, \frac{2}{115}\sqrt{314}e^{13}, \frac{2}{345}\sqrt{18055}e^{25},$ $\frac{2}{115}\sqrt{2355}e^{14} + \frac{4}{345}\sqrt{942}e^{36}$	$(-\frac{12}{115}, -\frac{34}{345}, \frac{7}{23}, \frac{14}{23}, \frac{14}{69}, \frac{5}{3}, -\frac{104}{345}, \frac{58}{115})$ $+ \frac{2}{345}\sqrt{44274}e^4 \otimes e_7$	{237, 267, 357, 567}
842:31	$0, 0, 0, 0, \frac{1}{35}e^{12}, \frac{1}{35}\sqrt{182}e^{13}, \frac{1}{70}\sqrt{434}e^{25},$ $\frac{1}{35}\sqrt{105}e^{14} + \frac{1}{70}\sqrt{574}e^{36}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{35}\sqrt{266}e^3 \otimes e_7 + \frac{1}{70}\sqrt{658}e^1 \otimes e_4$	{23456, 346}
842:31	$0, 0, 0, 0, \frac{5}{1167}\sqrt{1002}e^{12}, \frac{10}{1167}\sqrt{267}e^{13}, \frac{5}{1167}\sqrt{2334}e^{25},$ $\frac{5}{389}\sqrt{22}e^{14} + \frac{10}{1167}\sqrt{6}e^{36}$	$(-\frac{55}{389}, \frac{30}{389}, \frac{30}{389}, \frac{60}{389}, -\frac{25}{389}, -\frac{25}{389}, \frac{5}{389}, \frac{5}{389})$ $+ \frac{5}{1167}\sqrt{2994}e^2 \otimes e_8 + \frac{5}{1167}\sqrt{3126}e^3 \otimes e_7$	{145678, 23456}
842:31	$0, 0, 0, 0, \frac{6}{89}\sqrt{130}e^{12}, \frac{6}{89}\sqrt{130}e^{13}, \frac{6}{89}\sqrt{30}e^{25},$ $\frac{30}{89}\sqrt{3}e^{14} + \frac{6}{89}\sqrt{55}e^{36}$	$(\frac{52}{89}, -\frac{14}{89}, -\frac{19}{89}, -\frac{38}{89}, \frac{38}{89}, \frac{33}{89}, \frac{24}{89}, \frac{14}{89})$ $+ \frac{6}{89}\sqrt{355}e^1 \otimes e_4$	{23456, 245, 346, 4}
842:31	$0, 0, 0, 0, \frac{2}{57}\sqrt{34}e^{12}, \frac{4}{57}\sqrt{6}e^{13}, \frac{4}{57}\sqrt{19}e^{25},$ $\frac{16}{57}e^{14} + \frac{2}{57}\sqrt{26}e^{36}$	$(-\frac{4}{19}, \frac{8}{57}, \frac{2}{19}, \frac{4}{19}, -\frac{4}{57}, -\frac{2}{19}, \frac{4}{57}, 0)$ $+ \frac{2}{57}\sqrt{86}e^4 \otimes e_7 + \frac{4}{57}\sqrt{29}e^2 \otimes e_8$	{348, 468}
842:31	$0, 0, 0, 0, \frac{2}{1497}\sqrt{183414}e^{12}, \frac{8}{499}\sqrt{397}e^{13}, \frac{2}{1497}\sqrt{198103}e^{25},$ $\frac{2}{1497}\sqrt{101235}e^{14} + \frac{2}{499}\sqrt{18262}e^{36}$	$(-\frac{96}{499}, \frac{536}{1497}, \frac{5}{499}, \frac{10}{499}, \frac{248}{1497}, -\frac{91}{499}, \frac{784}{1497}, -\frac{86}{499})$ $+ \frac{4}{1497}\sqrt{120291}e^2 \otimes e_8$	{123467, 1247, 348, 468}
842:31	$0, 0, 0, 0, \frac{2}{487}\sqrt{367}e^{12}, \frac{2}{1461}\sqrt{216897}e^{13}, \frac{2}{1461}\sqrt{178729}e^{25},$ $\frac{2}{1461}\sqrt{111201}e^{14} + \frac{28}{1461}\sqrt{1101}e^{36}$	$(-\frac{6}{487}, -\frac{217}{1461}, \frac{94}{487}, \frac{188}{487}, -\frac{235}{1461}, \frac{88}{487}, -\frac{452}{1461}, \frac{182}{487})$ $+ \frac{40}{1461}\sqrt{1101}e^3 \otimes e_7$	{123458, 1348, 247, 457}
842:31	$0, 0, 0, 0, \frac{4}{109}\sqrt{134}e^{12}, \frac{16}{109}e^{13}, \frac{12}{109}\sqrt{11}e^{25},$ $\frac{12}{109}\sqrt{2}e^{14} + \frac{4}{109}\sqrt{93}e^{36}$	$(\frac{8}{109}, \frac{16}{109}, -\frac{12}{109}, -\frac{24}{109}, \frac{24}{109}, -\frac{4}{109}, \frac{40}{109}, -\frac{16}{109})$ $+ \frac{4}{109}\sqrt{139}e^1 \otimes e_4 + \frac{8}{109}\sqrt{59}e^2 \otimes e_8$	{13578, 15678}
842:32	$0, 0, 0, 0, \frac{4}{411}\sqrt{2685}e^{12}, \frac{2}{411}\sqrt{9129}e^{13}, \frac{2}{411}\sqrt{24523}e^{25},$ $\frac{2}{411}\sqrt{9129}e^{16} + \frac{2}{137}\sqrt{3401}e^{34}$	$(\frac{40}{137}, -\frac{119}{411}, -\frac{14}{137}, \frac{80}{137}, \frac{1}{411}, \frac{26}{137}, -\frac{118}{411}, \frac{66}{137})$ $+ \frac{2}{137}\sqrt{6623}e^4 \otimes e_7$	{123678, 127, 135678, 157}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:32	$0, 0, 0, 0, \frac{3}{35}\sqrt{30}e^{12}, \frac{2}{35}\sqrt{15}e^{13}, \frac{1}{35}\sqrt{285}e^{25},$ $\frac{1}{35}\sqrt{105}e^{16} + \frac{3}{35}\sqrt{30}e^{34}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, 0, \frac{3}{7}, -\frac{1}{7})$ $+ \frac{1}{35}\sqrt{195}e^3 \otimes e_4 + \frac{1}{35}\sqrt{690}e^2 \otimes e_8$	{14578, 468}
842:32	$0, 0, 0, 0, \frac{11}{3957}\sqrt{2190}e^{12}, \frac{22}{3957}\sqrt{381}e^{13}, \frac{11}{3957}\sqrt{2638}e^{25},$ $\frac{11}{3957}\sqrt{174}e^{16} + \frac{22}{1319}\sqrt{89}e^{34}$	$(\frac{55}{1319}, \frac{22}{3957}, -\frac{143}{1319}, \frac{110}{1319}, \frac{187}{3957}, -\frac{88}{1319}, \frac{209}{3957}, -\frac{33}{1319})$ $+ \frac{143}{1319}\sqrt{2}e^4 \otimes e_7 + \frac{165}{1319}\sqrt{2}e^2 \otimes e_8$	{127, 135678}
842:32	$0, 0, 0, 0, \frac{8}{33}\sqrt{6}e^{12}, \frac{8}{33}\sqrt{3}e^{13}, \frac{4}{33}\sqrt{22}e^{25},$ $\frac{4}{33}\sqrt{6}e^{16} + \frac{8}{33}\sqrt{6}e^{34}$	$(-\frac{1}{11}, \frac{10}{33}, 0, -\frac{2}{11}, \frac{7}{33}, -\frac{1}{11}, \frac{17}{33}, -\frac{2}{11})$ $+ \frac{4}{11}\sqrt{6}e^2 \otimes e_8$	{123467, 14578, 2345, 468}
842:32	$0, 0, 0, 0, \frac{1}{213}\sqrt{978}e^{12}, \frac{2}{71}\sqrt{489}e^{13}, \frac{1}{213}\sqrt{23146}e^{25},$ $\frac{1}{213}\sqrt{978}e^{16} + \frac{2}{71}\sqrt{489}e^{34}$	$(-\frac{2}{71}, -\frac{26}{213}, \frac{35}{71}, -\frac{4}{71}, -\frac{32}{213}, \frac{33}{71}, -\frac{58}{213}, \frac{31}{71})$ $+ \frac{1}{71}\sqrt{6194}e^3 \otimes e_7$	{12345, 134, 2478, 4578}
842:32	$0, 0, 0, 0, \frac{95}{1133}\sqrt{6}e^{12}, \frac{76}{3399}\sqrt{3}e^{13}, \frac{19}{3399}\sqrt{2266}e^{25},$ $\frac{19}{3399}\sqrt{222}e^{16} + \frac{76}{3399}\sqrt{138}e^{34}$	$(-\frac{114}{1133}, \frac{304}{3399}, \frac{19}{103}, -\frac{228}{1133}, -\frac{38}{3399}, \frac{95}{1133}, \frac{266}{3399}, -\frac{19}{1133})$ $+ \frac{19}{1133}\sqrt{286}e^3 \otimes e_7 + \frac{38}{1133}\sqrt{94}e^2 \otimes e_8$	{14578, 2345}
842:32	$0, 0, 0, 0, \frac{4}{99}\sqrt{177}e^{12}, \frac{2}{99}\sqrt{2419}e^{13}, \frac{1}{99}\sqrt{1534}e^{25},$ $\frac{1}{99}\sqrt{3422}e^{16} + \frac{4}{99}\sqrt{177}e^{34}$	$(-\frac{8}{33}, \frac{25}{99}, \frac{70}{99}, -\frac{16}{33}, \frac{1}{99}, \frac{46}{99}, \frac{26}{99}, \frac{2}{9})$ $+ \frac{1}{99}\sqrt{18762}e^3 \otimes e_4$	{12456, 146, 247, 457}
842:33	$0, 0, 0, 0, \frac{3}{317}\sqrt{1330}e^{12}, \frac{18}{317}\sqrt{57}e^{13}, \frac{228}{317}e^{25},$ $\frac{6}{317}\sqrt{1691}e^{24} + \frac{3}{317}\sqrt{646}e^{36}$	$(\frac{54}{317}, -\frac{84}{317}, \frac{45}{317}, \frac{228}{317}, -\frac{30}{317}, \frac{99}{317}, -\frac{114}{317}, \frac{144}{317})$ $+ \frac{39}{317}\sqrt{114}e^4 \otimes e_7$	{12345, 12456, 23678, 278}
842:33	$0, 0, 0, 0, \frac{12}{1265}\sqrt{7738}e^{12}, \frac{12}{1265}\sqrt{1590}e^{13}, \frac{24}{1265}\sqrt{1802}e^{25},$ $\frac{6}{1265}\sqrt{19451}e^{24} + \frac{6}{1265}\sqrt{10441}e^{36}$	$(-\frac{48}{253}, \frac{504}{1265}, \frac{147}{1265}, -\frac{90}{253}, \frac{24}{115}, -\frac{93}{1265}, \frac{768}{1265}, \frac{54}{1265})$ $+ \frac{6}{1265}\sqrt{55173}e^2 \otimes e_4$	{12367, 127, 134567, 1457}
842:33	$0, 0, 0, 0, \frac{2}{443}\sqrt{1221}e^{12}, \frac{24}{443}\sqrt{111}e^{13}, \frac{12}{443}\sqrt{555}e^{25},$ $\frac{2}{443}\sqrt{10767}e^{24} + \frac{12}{443}\sqrt{555}e^{36}$	$(-\frac{75}{443}, -\frac{14}{443}, \frac{119}{443}, \frac{177}{443}, -\frac{89}{443}, \frac{44}{443}, -\frac{103}{443}, \frac{163}{443})$ $+ \frac{66}{443}\sqrt{37}e^3 \otimes e_7$	{124678, 15678, 2356, 346}
842:33	$0, 0, 0, 0, \frac{6}{455}\sqrt{7}e^{12}, \frac{6}{455}\sqrt{210}e^{13}, \frac{3}{455}\sqrt{2702}e^{25},$ $\frac{6}{455}\sqrt{434}e^{24} + \frac{6}{455}\sqrt{469}e^{36}$	$(-\frac{3}{13}, \frac{9}{65}, \frac{12}{65}, 0, -\frac{6}{65}, -\frac{3}{65}, \frac{3}{65}, \frac{9}{65})$ $+ \frac{3}{455}\sqrt{2478}e^2 \otimes e_4 + \frac{9}{91}\sqrt{14}e^3 \otimes e_7$	{2356, 346}
842:34	$0, 0, 0, 0, \frac{380}{1191}e^{12}, \frac{266}{1191}\sqrt{5}e^{13}, \frac{38}{397}e^{15},$ $\frac{38}{1191}\sqrt{211}e^{16} + \frac{266}{1191}\sqrt{161}e^{25}$	$(-\frac{209}{1191}, \frac{95}{1191}, \frac{133}{397}, \frac{703}{1191}, -\frac{38}{397}, \frac{190}{1191}, -\frac{323}{1191}, -\frac{19}{1191})$ $+ \frac{38}{1191}\sqrt{547}e^4 \otimes e_8 + \frac{76}{1191}\sqrt{122}e^3 \otimes e_7$	{1467, 2368}
842:34	$0, 0, 0, 0, \frac{2}{35}\sqrt{105}e^{12}, \frac{3}{35}\sqrt{42}e^{13}, \frac{6}{35}\sqrt{35}e^{15},$ $\frac{4}{35}\sqrt{21}e^{16} + \frac{3}{35}\sqrt{14}e^{25}$	$(-\frac{1}{7}, \frac{3}{35}, \frac{11}{35}, 1, -\frac{2}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{1}{35})$ $+ \frac{3}{35}\sqrt{266}e^4 \otimes e_7$	{127, 145, 23578, 348}
842:34	$0, 0, 0, 0, \frac{30}{251}\sqrt{51}e^{12}, \frac{2}{251}\sqrt{2703}e^{13}, \frac{2}{251}\sqrt{969}e^{15},$ $\frac{12}{251}\sqrt{170}e^{16} + \frac{6}{251}\sqrt{1139}e^{25}$	$(\frac{7}{251}, \frac{38}{251}, \frac{69}{251}, -\frac{166}{251}, \frac{45}{251}, \frac{76}{251}, \frac{52}{251}, \frac{83}{251})$ $+ \frac{6}{251}\sqrt{2363}e^2 \otimes e_4$	{123678, 134568, 2567, 46}
842:34	$0, 0, 0, 0, \frac{2}{1001}\sqrt{70446}e^{12}, \frac{12}{1001}\sqrt{6965}e^{13}, \frac{6}{1001}\sqrt{9353}e^{15},$ $\frac{16}{1001}\sqrt{1194}e^{16} + \frac{6}{1001}\sqrt{4577}e^{25}$	$(-\frac{95}{1001}, \frac{243}{1001}, \frac{83}{143}, -\frac{613}{1001}, \frac{148}{1001}, \frac{486}{1001}, \frac{53}{1001}, \frac{391}{1001})$ $+ \frac{6}{1001}\sqrt{53531}e^3 \otimes e_4$	{124567, 146, 23678, 3568}
842:34	$0, 0, 0, 0, \frac{468}{1013}e^{12}, \frac{26}{1013}\sqrt{501}e^{13}, \frac{26}{1013}\sqrt{615}e^{15},$ $\frac{78}{1013}\sqrt{115}e^{16} + \frac{78}{1013}\sqrt{97}e^{25}$	$(-\frac{11}{1013}, \frac{5}{1013}, \frac{21}{1013}, 1, -\frac{6}{1013}, \frac{10}{1013}, -\frac{17}{1013}, -\frac{1}{1013})$ $+ \frac{390}{1013}\sqrt{11}e^4 \otimes e_8$	{124567, 146, 23678, 3568}
842:34	$0, 0, 0, 0, \frac{224}{1633}\sqrt{3}e^{12}, \frac{192}{1633}\sqrt{10}e^{13}, \frac{32}{1633}\sqrt{406}e^{15},$ $\frac{32}{1633}\sqrt{193}e^{16} + \frac{32}{1633}\sqrt{138}e^{25}$	$(-\frac{112}{1633}, \frac{176}{1633}, \frac{464}{1633}, -\frac{624}{1633}, \frac{64}{1633}, \frac{352}{1633}, -\frac{48}{1633}, \frac{240}{1633})$ $+ \frac{32}{1633}\sqrt{809}e^1 \otimes e_4 + \frac{96}{1633}\sqrt{71}e^3 \otimes e_7$	{1267, 3468}
842:34	$0, 0, 0, 0, \frac{4}{511}\sqrt{561}e^{12}, \frac{3}{511}\sqrt{16082}e^{13}, \frac{66}{511}\sqrt{34}e^{15},$ $\frac{3}{511}\sqrt{5610}e^{16} + \frac{3}{511}\sqrt{1122}e^{25}$	$(-\frac{148}{511}, \frac{117}{511}, \frac{382}{511}, \frac{100}{511}, -\frac{31}{511}, \frac{234}{511}, -\frac{179}{511}, \frac{86}{511})$ $+ \frac{3}{511}\sqrt{51238}e^3 \otimes e_7$	{14678, 1678, 2346, 236}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:34	$0, 0, 0, 0, \frac{2}{355}\sqrt{9591}e^{12}, \frac{2}{355}\sqrt{9591}e^{13}, \frac{2}{355}\sqrt{10981}e^{15},$ $\frac{2}{355}\sqrt{10981}e^{16} + \frac{2}{355}\sqrt{4170}e^{25}$	$(\frac{59}{355}, \frac{29}{355}, -\frac{1}{355}, -\frac{219}{355}, \frac{88}{355}, \frac{58}{355}, \frac{147}{355}, \frac{117}{355})$ $+ \frac{2}{355}\sqrt{39893}e^1 \otimes e_4$	{1267, 156, 2345678, 3468}
842:34	$0, 0, 0, 0, \frac{4}{31}\sqrt{17}e^{12}, \frac{1}{31}\sqrt{34}e^{13}, \frac{2}{31}\sqrt{34}e^{15},$ $\frac{1}{31}\sqrt{170}e^{16} + \frac{1}{31}\sqrt{238}e^{25}$	$(-\frac{4}{31}, \frac{5}{31}, \frac{14}{31}, -\frac{12}{31}, \frac{1}{31}, \frac{10}{31}, -\frac{3}{31}, \frac{6}{31})$ $+ \frac{1}{31}\sqrt{374}e^3 \otimes e_7 + \frac{4}{31}\sqrt{34}e^2 \otimes e_4$	{12678, 346}
842:34	$0, 0, 0, 0, \frac{32}{1051}\sqrt{159}e^{12}, \frac{32}{1051}\sqrt{57}e^{13}, \frac{32}{1051}\sqrt{142}e^{15},$ $\frac{32}{1051}\sqrt{233}e^{16} + \frac{32}{1051}\sqrt{51}e^{25}$	$(\frac{176}{1051}, -\frac{80}{1051}, -\frac{336}{1051}, \frac{528}{1051}, \frac{96}{1051}, -\frac{160}{1051}, \frac{272}{1051}, \frac{16}{1051})$ $+ \frac{32}{1051}\sqrt{398}e^4 \otimes e_8 + \frac{32}{1051}\sqrt{523}e^1 \otimes e_3$	{1278, 158, 23457, 34}
842:34	$0, 0, 0, 0, \frac{32}{1051}\sqrt{159}e^{12}, \frac{32}{1051}\sqrt{57}e^{13}, \frac{32}{1051}\sqrt{142}e^{15},$ $\frac{32}{1051}\sqrt{233}e^{16} + \frac{32}{1051}\sqrt{51}e^{25}$	$(\frac{176}{1051}, -\frac{80}{1051}, -\frac{336}{1051}, \frac{528}{1051}, \frac{96}{1051}, -\frac{160}{1051}, \frac{272}{1051}, \frac{16}{1051})$ $+ \frac{32}{1051}\sqrt{398}e^4 \otimes e_8 - \frac{32}{1051}\sqrt{523}e^1 \otimes e_3$	{1278, 158, 23457, 34}
842:35	$0, 0, 0, 0, -\frac{1}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{6}e^{13}, \frac{2}{5}\sqrt{6}e^{15},$ $\frac{1}{5}\sqrt{6}e^{25} + \frac{1}{5}\sqrt{6}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 1, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{4}{5}\sqrt{3}e^4 \otimes e_7$	{12367, 127, 13456, 145, 23578, 25678, 348, 468, 12367, 127, 13456, 145, 23578, 25678, 348, 468}
842:35	$0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{6}e^{13}, \frac{2}{5}\sqrt{6}e^{15},$ $\frac{1}{5}\sqrt{6}e^{25} + \frac{1}{5}\sqrt{6}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 1, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{4}{5}\sqrt{3}e^4 \otimes e_7$	{12367, 127, 13456, 145, 23578, 25678, 348, 468, 12367, 127, 13456, 145, 23578, 25678, 348, 468}
842:35	$0, 0, 0, 0, -\frac{1}{83}\sqrt{174}e^{12}, \frac{1}{83}\sqrt{2262}e^{13}, \frac{2}{83}\sqrt{754}e^{15},$ $\frac{29}{83}\sqrt{2}e^{25} + \frac{1}{83}\sqrt{3770}e^{36}$	$(-\frac{29}{83}, \frac{31}{83}, \frac{31}{83}, \frac{15}{83}, \frac{2}{83}, \frac{2}{83}, -\frac{27}{83}, \frac{33}{83})$ $+ \frac{4}{83}\sqrt{493}e^3 \otimes e_7$	{123458, 12358, 14678, 1678, 2346, 236, 457, 57, 123458, 12358, 14678, 1678, 2346, 236, 457, 57}
842:35	$0, 0, 0, 0, \frac{1}{83}\sqrt{174}e^{12}, \frac{1}{83}\sqrt{2262}e^{13}, \frac{2}{83}\sqrt{754}e^{15},$ $\frac{29}{83}\sqrt{2}e^{25} + \frac{1}{83}\sqrt{3770}e^{36}$	$(-\frac{29}{83}, \frac{31}{83}, \frac{31}{83}, \frac{15}{83}, \frac{2}{83}, \frac{2}{83}, -\frac{27}{83}, \frac{33}{83})$ $+ \frac{4}{83}\sqrt{493}e^3 \otimes e_7$	{123458, 12358, 14678, 1678, 2346, 236, 457, 57, 123458, 12358, 14678, 1678, 2346, 236, 457, 57}
842:35	$0, 0, 0, 0, -\frac{9}{431}\sqrt{22}e^{12}, \frac{9}{431}\sqrt{286}e^{13}, \frac{18}{431}\sqrt{70}e^{15},$ $\frac{9}{431}\sqrt{10}e^{25} + \frac{153}{431}\sqrt{2}e^{36}$	$(-\frac{81}{431}, \frac{63}{431}, \frac{63}{431}, \frac{207}{431}, -\frac{18}{431}, -\frac{18}{431}, -\frac{99}{431}, \frac{45}{431})$ $+ \frac{36}{431}\sqrt{38}e^4 \otimes e_8 + \frac{72}{431}\sqrt{14}e^3 \otimes e_7$	{12358, 1678, 2346, 457, 12358, 1678, 2346, 457}
842:35	$0, 0, 0, 0, \frac{9}{431}\sqrt{22}e^{12}, \frac{9}{431}\sqrt{286}e^{13}, \frac{18}{431}\sqrt{70}e^{15},$ $\frac{9}{431}\sqrt{10}e^{25} + \frac{153}{431}\sqrt{2}e^{36}$	$(-\frac{81}{431}, \frac{63}{431}, \frac{63}{431}, \frac{207}{431}, -\frac{18}{431}, -\frac{18}{431}, -\frac{99}{431}, \frac{45}{431})$ $+ \frac{36}{431}\sqrt{38}e^4 \otimes e_8 + \frac{72}{431}\sqrt{14}e^3 \otimes e_7$	{12358, 1678, 2346, 457, 12358, 1678, 2346, 457}
842:35	$0, 0, 0, 0, -\frac{4}{61}\sqrt{30}e^{12}, \frac{4}{61}\sqrt{30}e^{13}, \frac{8}{61}\sqrt{10}e^{15},$ $\frac{4}{61}\sqrt{10}e^{25} + \frac{20}{61}\sqrt{2}e^{36}$	$(-\frac{16}{61}, \frac{20}{61}, \frac{20}{61}, -\frac{12}{61}, \frac{4}{61}, \frac{4}{61}, -\frac{12}{61}, \frac{24}{61})$ $+ \frac{8}{61}\sqrt{21}e^2 \otimes e_4 + \frac{8}{61}\sqrt{31}e^3 \otimes e_7$	{12678, 13458, 257, 346, 12678, 13458, 257, 346}
842:35	$0, 0, 0, 0, \frac{4}{61}\sqrt{30}e^{12}, \frac{4}{61}\sqrt{30}e^{13}, \frac{8}{61}\sqrt{10}e^{15},$ $\frac{4}{61}\sqrt{10}e^{25} + \frac{20}{61}\sqrt{2}e^{36}$	$(-\frac{16}{61}, \frac{20}{61}, \frac{20}{61}, -\frac{12}{61}, \frac{4}{61}, \frac{4}{61}, -\frac{12}{61}, \frac{24}{61})$ $+ \frac{8}{61}\sqrt{21}e^2 \otimes e_4 + \frac{8}{61}\sqrt{31}e^3 \otimes e_7$	{12678, 13458, 257, 346, 12678, 13458, 257, 346}
842:35	$0, 0, 0, 0, -\frac{4}{81}\sqrt{259}e^{12}, \frac{2}{81}\sqrt{111}e^{13}, \frac{4}{81}\sqrt{37}e^{15},$ $\frac{2}{81}\sqrt{1110}e^{25} + \frac{2}{81}\sqrt{185}e^{36}$	$(-\frac{2}{27}, \frac{23}{81}, \frac{23}{81}, -\frac{17}{27}, \frac{17}{81}, \frac{17}{81}, \frac{11}{81}, \frac{40}{81})$ $+ \frac{2}{81}\sqrt{2442}e^2 \otimes e_4$	{12368, 128, 1345678, 14578, 235, 256, 347, 467, 12368, 128, 1345678, 14578, 235, 256, 347, 467}
842:35	$0, 0, 0, 0, \frac{4}{81}\sqrt{259}e^{12}, \frac{2}{81}\sqrt{111}e^{13}, \frac{4}{81}\sqrt{37}e^{15},$ $\frac{2}{81}\sqrt{1110}e^{25} + \frac{2}{81}\sqrt{185}e^{36}$	$(-\frac{2}{27}, \frac{23}{81}, \frac{23}{81}, -\frac{17}{27}, \frac{17}{81}, \frac{17}{81}, \frac{11}{81}, \frac{40}{81})$ $+ \frac{2}{81}\sqrt{2442}e^2 \otimes e_4$	{12368, 128, 1345678, 14578, 235, 256, 347, 467, 12368, 128, 1345678, 14578, 235, 256, 347, 467}
842:35	$0, 0, 0, 0, -\frac{2}{81}\sqrt{185}e^{12}, \frac{2}{81}\sqrt{1110}e^{13}, \frac{4}{81}\sqrt{37}e^{15},$ $\frac{2}{81}\sqrt{111}e^{25} + \frac{4}{81}\sqrt{259}e^{36}$	$(-\frac{2}{27}, \frac{23}{81}, \frac{23}{81}, -\frac{17}{27}, \frac{17}{81}, \frac{17}{81}, \frac{11}{81}, \frac{40}{81})$ $+ \frac{2}{81}\sqrt{2442}e^3 \otimes e_4$	{123578, 1245678, 138, 1468, 2367, 247, 356, 45, 123578, 1245678, 138, 1468, 2367, 247, 356, 45}
842:35	$0, 0, 0, 0, \frac{2}{81}\sqrt{185}e^{12}, \frac{2}{81}\sqrt{1110}e^{13}, \frac{4}{81}\sqrt{37}e^{15},$ $\frac{2}{81}\sqrt{111}e^{25} + \frac{4}{81}\sqrt{259}e^{36}$	$(-\frac{2}{27}, \frac{23}{81}, \frac{23}{81}, -\frac{17}{27}, \frac{17}{81}, \frac{17}{81}, \frac{11}{81}, \frac{40}{81})$ $+ \frac{2}{81}\sqrt{2442}e^3 \otimes e_4$	{123578, 1245678, 138, 1468, 2367, 247, 356, 45, 123578, 1245678, 138, 1468, 2367, 247, 356, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:35	$0, 0, 0, 0, -\frac{1}{333}\sqrt{11098}e^{12}, \frac{1}{111}\sqrt{1790}e^{13}, \frac{2}{333}\sqrt{2506}e^{15},$ $\frac{1}{333}\sqrt{63366}e^{25} + \frac{1}{333}\sqrt{58354}e^{36}$	$(\frac{5}{37}, -\frac{35}{333}, -\frac{35}{333}, 1, \frac{10}{333}, \frac{10}{333}, \frac{55}{333}, -\frac{25}{333})$ $+ \frac{4}{333}\sqrt{11814}e^4 \otimes e_8$	{1238, 1268, 13578, 15678, 23456, 245, 3467, 47, 1238, 1268, 13578, 15678, 23456, 245, 3467, 47}
842:35	$0, 0, 0, 0, \frac{1}{333}\sqrt{11098}e^{12}, \frac{1}{111}\sqrt{1790}e^{13}, \frac{2}{333}\sqrt{2506}e^{15},$ $\frac{1}{333}\sqrt{63366}e^{25} + \frac{1}{333}\sqrt{58354}e^{36}$	$(\frac{5}{37}, -\frac{35}{333}, -\frac{35}{333}, 1, \frac{10}{333}, \frac{10}{333}, \frac{55}{333}, -\frac{25}{333})$ $+ \frac{4}{333}\sqrt{11814}e^4 \otimes e_8$	{1238, 1268, 13578, 15678, 23456, 245, 3467, 47, 1238, 1268, 13578, 15678, 23456, 245, 3467, 47}
842:37	$0, 0, 0, 0, \frac{1}{15}\sqrt{6}e^{12}, \frac{1}{15}\sqrt{42}e^{13}, \frac{2}{5}e^{25}, \frac{1}{15}\sqrt{30}e^{15} + \frac{2}{5}e^{36}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{15}\sqrt{66}e^3 \otimes e_7 + \frac{2}{15}\sqrt{3}e^1 \otimes e_4$	{12358, 457}
842:37	$0, 0, 0, 0, \frac{4}{127}\sqrt{2}e^{12}, \frac{2}{127}\sqrt{34}e^{13}, \frac{2}{127}\sqrt{51}e^{25},$ $\frac{2}{127}\sqrt{26}e^{15} + \frac{2}{127}\sqrt{51}e^{36}$	$(-\frac{1}{127}, -\frac{1}{127}, -\frac{1}{127}, \frac{15}{127}, -\frac{2}{127}, -\frac{2}{127}, -\frac{3}{127}, -\frac{3}{127})$ $- \frac{2}{127}\sqrt{43}e^2 \otimes e_8 + \frac{2}{127}\sqrt{69}e^3 \otimes e_7$	{145678, 15678, 23456, 2356}
842:37	$0, 0, 0, 0, \frac{4}{127}\sqrt{2}e^{12}, \frac{2}{127}\sqrt{34}e^{13}, \frac{2}{127}\sqrt{51}e^{25},$ $\frac{2}{127}\sqrt{26}e^{15} + \frac{2}{127}\sqrt{51}e^{36}$	$(-\frac{1}{127}, -\frac{1}{127}, -\frac{1}{127}, \frac{15}{127}, -\frac{2}{127}, -\frac{2}{127}, -\frac{3}{127}, -\frac{3}{127})$ $+ \frac{2}{127}\sqrt{43}e^2 \otimes e_8 + \frac{2}{127}\sqrt{69}e^3 \otimes e_7$	{145678, 15678, 23456, 2356}
842:37	$0, 0, 0, 0, \frac{18}{317}\sqrt{57}e^{12}, \frac{3}{317}\sqrt{1330}e^{13}, \frac{3}{317}\sqrt{646}e^{25},$ $\frac{6}{317}\sqrt{1691}e^{15} + \frac{228}{317}e^{36}$	$(-\frac{35}{317}, \frac{45}{317}, \frac{5}{317}, 1, \frac{10}{317}, -\frac{30}{317}, \frac{55}{317}, -\frac{25}{317})$ $+ \frac{4}{317}\sqrt{114}e^4 \otimes e_8$	{13456, 145, 23578, 25678}
842:37	$0, 0, 0, 0, \frac{3}{10}e^{12}, \frac{1}{5}\sqrt{6}e^{13}, \frac{3}{10}\sqrt{10}e^{25},$ $\frac{1}{10}\sqrt{30}e^{15} + \frac{3}{10}\sqrt{3}e^{36}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 1, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{2}e^4 \otimes e_7$	{13578, 15678, 23456, 245}
842:37	$0, 0, 0, 0, \frac{30}{271}\sqrt{3}e^{12}, \frac{5}{271}\sqrt{462}e^{13}, \frac{5}{271}\sqrt{426}e^{25},$ $\frac{10}{271}\sqrt{89}e^{15} + \frac{20}{271}\sqrt{30}e^{36}$	$(\frac{35}{271}, -\frac{45}{271}, -\frac{5}{271}, \frac{75}{271}, -\frac{10}{271}, \frac{30}{271}, -\frac{55}{271}, \frac{25}{271})$ $+ \frac{140}{271}e^3 \otimes e_7 + \frac{45}{271}\sqrt{2}e^4 \otimes e_8$	{12358, 457}
842:37	$0, 0, 0, 0, \frac{52}{1213}\sqrt{53}e^{12}, \frac{52}{1213}\sqrt{34}e^{13}, \frac{78}{1213}\sqrt{29}e^{25},$ $\frac{26}{1213}\sqrt{11}e^{15} + \frac{52}{1213}\sqrt{102}e^{36}$	$(-\frac{169}{1213}, \frac{299}{1213}, \frac{65}{1213}, -\frac{273}{1213}, \frac{130}{1213}, -\frac{104}{1213}, \frac{429}{1213}, -\frac{39}{1213})$ $+ \frac{52}{1213}\sqrt{151}e^2 \otimes e_8 + \frac{546}{1213}e^3 \otimes e_4$	{13578, 145678, 2356, 245}
842:37	$0, 0, 0, 0, \frac{52}{1213}\sqrt{53}e^{12}, \frac{52}{1213}\sqrt{34}e^{13}, \frac{78}{1213}\sqrt{29}e^{25},$ $\frac{26}{1213}\sqrt{11}e^{15} + \frac{52}{1213}\sqrt{102}e^{36}$	$(-\frac{169}{1213}, \frac{299}{1213}, \frac{65}{1213}, -\frac{273}{1213}, \frac{130}{1213}, -\frac{104}{1213}, \frac{429}{1213}, -\frac{39}{1213})$ $- \frac{52}{1213}\sqrt{151}e^2 \otimes e_8 + \frac{546}{1213}e^3 \otimes e_4$	{13578, 145678, 2356, 245}
842:37	$0, 0, 0, 0, \frac{7}{695}\sqrt{6}e^{12}, \frac{42}{695}\sqrt{14}e^{13}, \frac{14}{695}\sqrt{157}e^{25},$ $\frac{7}{695}\sqrt{494}e^{15} + \frac{7}{695}\sqrt{506}e^{36}$	$(\frac{14}{139}, -\frac{56}{695}, \frac{7}{695}, -\frac{21}{139}, \frac{14}{695}, \frac{77}{695}, -\frac{42}{695}, \frac{84}{695})$ $+ \frac{14}{695}\sqrt{217}e^3 \otimes e_7 + \frac{7}{695}\sqrt{366}e^2 \otimes e_4$	{145678, 2356}
842:37	$0, 0, 0, 0, \frac{21}{163}\sqrt{37}e^{12}, \frac{7}{163}\sqrt{21}e^{13}, \frac{21}{163}\sqrt{39}e^{25},$ $\frac{35}{163}\sqrt{3}e^{15} + \frac{21}{163}\sqrt{10}e^{36}$	$(-\frac{7}{163}, \frac{49}{163}, \frac{21}{163}, -\frac{98}{163}, \frac{42}{163}, \frac{14}{163}, \frac{91}{163}, \frac{35}{163})$ $+ \frac{21}{163}\sqrt{87}e^2 \otimes e_4$	{12367, 127, 348, 468}
842:37	$0, 0, 0, 0, \frac{3}{211}\sqrt{282}e^{12}, \frac{1}{211}\sqrt{10434}e^{13}, \frac{2}{211}\sqrt{2397}e^{25},$ $\frac{1}{211}\sqrt{8930}e^{15} + \frac{2}{211}\sqrt{2397}e^{36}$	$(\frac{41}{211}, -\frac{45}{211}, -\frac{2}{211}, \frac{30}{211}, -\frac{4}{211}, \frac{39}{211}, -\frac{49}{211}, \frac{37}{211})$ $+ \frac{1}{211}\sqrt{17014}e^3 \otimes e_7$	{123458, 12358, 457, 57}
842:37	$0, 0, 0, 0, \frac{12}{1265}\sqrt{1590}e^{12}, \frac{12}{1265}\sqrt{7738}e^{13}, \frac{6}{1265}\sqrt{10441}e^{25},$ $\frac{6}{1265}\sqrt{19451}e^{15} + \frac{24}{1265}\sqrt{1802}e^{36}$	$(\frac{127}{1265}, \frac{147}{1265}, \frac{137}{1265}, -\frac{817}{1265}, \frac{274}{1265}, \frac{24}{115}, \frac{421}{1265}, \frac{401}{1265})$ $+ \frac{6}{1265}\sqrt{55173}e^3 \otimes e_4$	{12358, 124568, 3567, 457}
842:37	$0, 0, 0, 0, \frac{2}{107}\sqrt{1457}e^{12}, \frac{2}{107}\sqrt{658}e^{13}, \frac{3}{107}\sqrt{94}e^{25},$ $\frac{2}{107}\sqrt{1598}e^{15} + \frac{3}{107}\sqrt{94}e^{36}$	$(\frac{28}{107}, -\frac{6}{107}, \frac{11}{107}, -\frac{66}{107}, \frac{22}{107}, \frac{39}{107}, \frac{16}{107}, \frac{50}{107})$ $+ \frac{1}{107}\sqrt{16262}e^1 \otimes e_4$	{135, 156, 2345678, 24578}
842:39	$0, 0, 0, 0, \frac{18}{481}\sqrt{105}e^{12}, \frac{18}{481}\sqrt{370}e^{13}, \frac{9}{481}\sqrt{790}e^{14} + \frac{18}{481}\sqrt{370}e^{25},$ $\frac{72}{481}\sqrt{5}e^{16} + \frac{18}{481}\sqrt{105}e^{24}$	$(-\frac{126}{481}, \frac{27}{481}, \frac{9}{13}, \frac{54}{481}, -\frac{99}{481}, \frac{207}{481}, -\frac{72}{481}, \frac{81}{481})$ $+ \frac{90}{481}\sqrt{39}e^3 \otimes e_7$	{123458, 457}
842:39	$0, 0, 0, 0, \frac{180}{253}e^{12}, \frac{120}{253}e^{13}, \frac{15}{253}\sqrt{134}e^{14} + \frac{30}{253}\sqrt{5}e^{25},$ $\frac{60}{253}\sqrt{7}e^{16} + \frac{90}{253}\sqrt{3}e^{24}$	$(\frac{90}{253}, \frac{15}{253}, -\frac{135}{253}, \frac{30}{253}, \frac{105}{253}, -\frac{45}{253}, \frac{120}{253}, \frac{45}{253})$ $+ \frac{30}{253}\sqrt{105}e^1 \otimes e_3$	{1578, 235}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:40	$0, 0, 0, 0, -\frac{3}{193}\sqrt{129e^{12}}, \frac{9}{193}\sqrt{59e^{13}}, \frac{3}{193}\sqrt{201e^{15}} + \frac{9}{193}\sqrt{59e^{24}},$ $\frac{39}{193}\sqrt{3e^{14}} + \frac{3}{193}\sqrt{555e^{36}}$	$(\frac{12}{193}, -\frac{39}{193}, \frac{12}{193}, \frac{24}{193}, -\frac{27}{193}, \frac{24}{193}, -\frac{15}{193}, \frac{36}{193})$ $+ \frac{9}{193}\sqrt{110e^3} \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:40	$0, 0, 0, 0, \frac{3}{193}\sqrt{129e^{12}}, \frac{9}{193}\sqrt{59e^{13}}, \frac{3}{193}\sqrt{201e^{15}} + \frac{9}{193}\sqrt{59e^{24}},$ $\frac{39}{193}\sqrt{3e^{14}} + \frac{3}{193}\sqrt{555e^{36}}$	$(\frac{12}{193}, -\frac{39}{193}, \frac{12}{193}, \frac{24}{193}, -\frac{27}{193}, \frac{24}{193}, -\frac{15}{193}, \frac{36}{193})$ $+ \frac{9}{193}\sqrt{110e^3} \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:40	$0, 0, 0, 0, -\frac{14}{197}\sqrt{69e^{12}}, \frac{7}{197}\sqrt{42e^{13}}, \frac{7}{197}\sqrt{42e^{15}} + \frac{14}{197}\sqrt{69e^{24}},$ $\frac{14}{197}\sqrt{30e^{14}} + \frac{7}{197}\sqrt{354e^{36}}$	$(-\frac{14}{197}, \frac{105}{197}, -\frac{14}{197}, -\frac{28}{197}, \frac{91}{197}, -\frac{28}{197}, \frac{77}{197}, -\frac{42}{197})$ $+ \frac{21}{197}\sqrt{106e^2} \otimes e_8$	{12346, 124, 3478, 4678, 12346, 124, 3478, 4678}
842:40	$0, 0, 0, 0, \frac{14}{197}\sqrt{69e^{12}}, \frac{7}{197}\sqrt{42e^{13}}, \frac{7}{197}\sqrt{42e^{15}} + \frac{14}{197}\sqrt{69e^{24}},$ $\frac{14}{197}\sqrt{30e^{14}} + \frac{7}{197}\sqrt{354e^{36}}$	$(-\frac{14}{197}, \frac{105}{197}, -\frac{14}{197}, -\frac{28}{197}, \frac{91}{197}, -\frac{28}{197}, \frac{77}{197}, -\frac{42}{197})$ $+ \frac{21}{197}\sqrt{106e^2} \otimes e_8$	{12346, 124, 3478, 4678, 12346, 124, 3478, 4678}
842:42	$0, 0, 0, 0, \frac{33}{2741}\sqrt{86e^{12}}, \frac{33}{2741}\sqrt{1446e^{13}},$ $\frac{33}{2741}\sqrt{1230e^{14}} + \frac{33}{2741}\sqrt{1910e^{25}}, \frac{33}{2741}\sqrt{1478e^{24}} + \frac{132}{2741}\sqrt{145e^{36}}$	$(-\frac{825}{2741}, \frac{297}{2741}, \frac{858}{2741}, \frac{594}{2741}, -\frac{528}{2741}, \frac{33}{2741}, -\frac{231}{2741}, \frac{891}{2741})$ $+ \frac{33}{2741}\sqrt{4542e^3} \otimes e_7$	{123458, 457}
842:47	$0, 0, 0, 0, \frac{2}{55}\sqrt{57e^{12}}, \frac{1}{55}\sqrt{114e^{13}}, \frac{2}{55}\sqrt{57e^{15}} + \frac{3}{55}\sqrt{26e^{23}},$ $\frac{3}{55}\sqrt{26e^{14}} + \frac{2}{55}\sqrt{42e^{36}}$	$(-\frac{1}{55}, \frac{7}{55}, -\frac{2}{55}, -\frac{4}{55}, \frac{6}{55}, -\frac{3}{55}, \frac{1}{11}, -\frac{1}{11})$ $+ \frac{7}{55}\sqrt{6e^1} \otimes e_4$	{234567, 346}
842:47	$0, 0, 0, 0, \frac{1}{14}\sqrt{57e^{12}}, \frac{3}{14}\sqrt{6e^{13}}, \frac{1}{14}\sqrt{6e^{15}} + \frac{1}{7}\sqrt{30e^{23}},$ $\frac{1}{7}\sqrt{30e^{14}} + \frac{5}{14}\sqrt{3e^{36}}$	$(\frac{1}{14}, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{3}{14}, \frac{3}{14}, -\frac{1}{7}, \frac{5}{14})$ $+ \frac{3}{14}\sqrt{17e^4} \otimes e_7$	{12578, 267}
842:47	$0, 0, 0, 0, \frac{4}{47}\sqrt{33e^{12}}, \frac{3}{47}\sqrt{66e^{13}}, \frac{1}{47}\sqrt{330e^{15}} + \frac{4}{47}\sqrt{66e^{23}},$ $\frac{4}{47}\sqrt{66e^{14}} + \frac{1}{47}\sqrt{330e^{36}}$	$(-\frac{2}{47}, \frac{23}{47}, -\frac{4}{47}, -\frac{8}{47}, \frac{21}{47}, -\frac{6}{47}, \frac{19}{47}, -\frac{10}{47})$ $+ \frac{3}{47}\sqrt{286e^2} \otimes e_8$	{12346, 3478}
842:48	$0, 0, 0, 0, \frac{5}{313}\sqrt{1086e^{12}}, \frac{15}{313}\sqrt{138e^{13}}, \frac{15}{313}\sqrt{182e^{15}} + \frac{15}{313}\sqrt{46e^{23}},$ $\frac{10}{313}\sqrt{345e^{16}} + \frac{15}{313}\sqrt{182e^{34}}$	$(\frac{20}{313}, -\frac{75}{313}, \frac{40}{313}, \frac{40}{313}, -\frac{55}{313}, \frac{60}{313}, -\frac{35}{313}, \frac{80}{313})$ $+ \frac{30}{313}\sqrt{46e^4} \otimes e_7$	{123678, 23578}
842:48	$0, 0, 0, 0, \frac{9}{337}\sqrt{582e^{12}}, \frac{27}{337}\sqrt{46e^{13}}, \frac{9}{337}\sqrt{30e^{15}} + \frac{27}{337}\sqrt{46e^{23}},$ $\frac{18}{337}\sqrt{69e^{16}} + \frac{9}{337}\sqrt{582e^{34}}$	$(-\frac{18}{337}, \frac{171}{337}, -\frac{36}{337}, -\frac{36}{337}, \frac{153}{337}, -\frac{54}{337}, \frac{135}{337}, -\frac{72}{337})$ $+ \frac{54}{337}\sqrt{46e^2} \otimes e_8$	{1458, 468}
842:49	$0, 0, 0, 0, \frac{44}{149}\sqrt{2e^{12}}, \frac{22}{149}\sqrt{6e^{13}}, \frac{22}{149}\sqrt{21e^{15}} + \frac{11}{149}\sqrt{70e^{23}},$ $\frac{110}{149}e^{24} + \frac{22}{149}\sqrt{10e^{36}}$	$(\frac{11}{149}, -\frac{44}{149}, \frac{22}{149}, \frac{99}{149}, -\frac{33}{149}, \frac{33}{149}, -\frac{22}{149}, \frac{55}{149})$ $+ \frac{22}{149}\sqrt{62e^4} \otimes e_7$	{234, 357}
842:50	$0, 0, 0, 0, \frac{19}{459}\sqrt{365e^{12}}, \frac{19}{459}\sqrt{107e^{13}}, \frac{19}{459}e^{15} + \frac{19}{459}\sqrt{110e^{23}},$ $\frac{38}{153}\sqrt{5e^{16}} + \frac{19}{459}\sqrt{329e^{25}}$	$(\frac{38}{459}, \frac{19}{153}, \frac{76}{459}, -\frac{304}{459}, \frac{95}{459}, \frac{38}{153}, \frac{133}{459}, \frac{152}{459})$ $+ \frac{19}{459}\sqrt{763e^2} \otimes e_4$	{2567, 46}
842:50	$0, 0, 0, 0, \frac{1}{43}\sqrt{430e^{12}}, \frac{1}{43}\sqrt{602e^{13}}, \frac{3}{43}\sqrt{86e^{15}} + \frac{1}{43}\sqrt{86e^{23}},$ $\frac{1}{43}\sqrt{1290e^{16}} + \frac{2}{43}\sqrt{258e^{25}}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{43}\sqrt{3010e^4} \otimes e_8$	{124567, 146}
842:50	$0, 0, 0, 0, \frac{13}{591}\sqrt{1122e^{12}}, \frac{26}{591}\sqrt{345e^{13}}, \frac{169}{591}\sqrt{6e^{15}} + \frac{13}{591}\sqrt{1542e^{23}},$ $\frac{52}{197}\sqrt{7e^{16}} + \frac{78}{197}e^{25}$	$(\frac{52}{591}, \frac{26}{197}, \frac{104}{591}, -\frac{403}{591}, \frac{130}{591}, \frac{52}{197}, \frac{182}{591}, \frac{208}{591})$ $+ \frac{13}{591}\sqrt{2982e^3} \otimes e_4$	{247, 45}
842:50	$0, 0, 0, 0, \frac{148}{1901}\sqrt{65e^{12}}, \frac{37}{1901}\sqrt{802e^{13}},$ $\frac{37}{1901}\sqrt{1070e^{15}} + \frac{37}{1901}\sqrt{714e^{23}}, \frac{111}{1901}\sqrt{66e^{16}} + \frac{111}{1901}\sqrt{10e^{25}}$	$(\frac{148}{1901}, \frac{222}{1901}, \frac{296}{1901}, -\frac{1221}{1901}, \frac{370}{1901}, \frac{444}{1901}, \frac{518}{1901}, \frac{592}{1901})$ $+ \frac{37}{1901}\sqrt{3122e^1} \otimes e_4$	{2345678, 3468}
842:51	$0, 0, 0, 0, -\frac{22}{149}\sqrt{21e^{12}}, \frac{22}{149}\sqrt{6e^{13}}, \frac{44}{149}\sqrt{2e^{15}} + \frac{11}{149}\sqrt{70e^{23}},$ $\frac{110}{149}e^{25} + \frac{22}{149}\sqrt{10e^{36}}$	$(\frac{11}{149}, \frac{22}{149}, \frac{22}{149}, -\frac{99}{149}, \frac{33}{149}, \frac{33}{149}, \frac{44}{149}, \frac{55}{149})$ $+ \frac{22}{149}\sqrt{62e^2} \otimes e_4$	{12368, 1345678, 235, 347, 12368, 1345678, 235, 347}
842:51	$0, 0, 0, 0, \frac{22}{149}\sqrt{21e^{12}}, \frac{22}{149}\sqrt{6e^{13}}, \frac{44}{149}\sqrt{2e^{15}} + \frac{11}{149}\sqrt{70e^{23}},$ $\frac{110}{149}e^{25} + \frac{22}{149}\sqrt{10e^{36}}$	$(\frac{11}{149}, \frac{22}{149}, \frac{22}{149}, -\frac{99}{149}, \frac{33}{149}, \frac{33}{149}, \frac{44}{149}, \frac{55}{149})$ $+ \frac{22}{149}\sqrt{62e^2} \otimes e_4$	{12368, 1345678, 235, 347, 12368, 1345678, 235, 347}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:51	$0, 0, 0, 0, -\frac{22}{149}\sqrt{10}e^{12}, \frac{110}{149}e^{13}, \frac{44}{149}\sqrt{2}e^{15} + \frac{11}{149}\sqrt{70}e^{23},$ $\frac{22}{149}\sqrt{6}e^{25} + \frac{22}{149}\sqrt{21}e^{36}$	$(\frac{11}{149}, \frac{22}{149}, \frac{22}{149}, -\frac{99}{149}, \frac{33}{149}, \frac{33}{149}, \frac{44}{149}, \frac{55}{149})$ $+ \frac{22}{149}\sqrt{62}e^3 \otimes e_4$	{1245678, 1468, 247, 45, 1245678, 1468, 247, 45}
842:51	$0, 0, 0, 0, \frac{22}{149}\sqrt{10}e^{12}, \frac{110}{149}e^{13}, \frac{44}{149}\sqrt{2}e^{15} + \frac{11}{149}\sqrt{70}e^{23},$ $\frac{22}{149}\sqrt{6}e^{25} + \frac{22}{149}\sqrt{21}e^{36}$	$(\frac{11}{149}, \frac{22}{149}, \frac{22}{149}, -\frac{99}{149}, \frac{33}{149}, \frac{33}{149}, \frac{44}{149}, \frac{55}{149})$ $+ \frac{22}{149}\sqrt{62}e^3 \otimes e_4$	{1245678, 1468, 247, 45, 1245678, 1468, 247, 45}
842:55	$0, 0, 0, 0, \frac{26}{475}\sqrt{174}e^{12}, \frac{39}{475}\sqrt{194}e^{13}, \frac{39}{475}\sqrt{94}e^{15},$ $\frac{13}{475}\sqrt{798}e^{16} + \frac{39}{95}\sqrt{2}e^{25} + \frac{39}{475}\sqrt{94}e^{34}$	$(-\frac{91}{475}, \frac{117}{475}, \frac{13}{19}, -\frac{182}{475}, \frac{26}{475}, \frac{234}{475}, -\frac{13}{95}, \frac{143}{475})$ $+ \frac{39}{475}\sqrt{266}e^3 \otimes e_4$	{124567, 146}
842:55	$0, 0, 0, 0, \frac{1}{115}\sqrt{330}e^{12}, \frac{3}{115}\sqrt{57}e^{13}, \frac{3}{115}\sqrt{70}e^{15},$ $\frac{1}{115}\sqrt{426}e^{16} + \frac{3}{115}\sqrt{29}e^{25} + \frac{3}{115}\sqrt{70}e^{34}$	$(\frac{1}{23}, -\frac{3}{115}, -\frac{11}{115}, \frac{2}{23}, \frac{2}{115}, -\frac{6}{115}, \frac{7}{115}, -\frac{1}{115})$ $+ \frac{3}{115}\sqrt{71}e^4 \otimes e_7$	{127, 23578}
842:55	$0, 0, 0, 0, \frac{4}{47}\sqrt{33}e^{12}, \frac{3}{47}\sqrt{22}e^{13}, \frac{12}{47}\sqrt{11}e^{15},$ $\frac{1}{47}\sqrt{858}e^{16} + \frac{3}{47}\sqrt{66}e^{25} + \frac{12}{47}\sqrt{11}e^{34}$	$(-\frac{8}{47}, \frac{9}{47}, \frac{26}{47}, -\frac{16}{47}, \frac{1}{47}, \frac{18}{47}, -\frac{7}{47}, \frac{10}{47})$ $+ \frac{3}{47}\sqrt{286}e^3 \otimes e_7$	{127, 38}
842:56	$0, 0, 0, 0, \frac{1}{6}\sqrt{30}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{6}\sqrt{21}e^{25},$ $\frac{1}{6}\sqrt{15}e^{15} + \frac{1}{3}\sqrt{6}e^{24} + \frac{1}{12}\sqrt{6}e^{36}$	$(\frac{1}{3}, -\frac{1}{3}, 0, \frac{2}{3}, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{4}\sqrt{26}e^4 \otimes e_7$	{3567, 57}
842:56	$0, 0, 0, 0, \frac{7}{195}\sqrt{537}e^{12}, \frac{7}{195}\sqrt{105}e^{13}, \frac{7}{15}\sqrt{3}e^{25},$ $\frac{7}{195}\sqrt{15}e^{15} + \frac{28}{195}\sqrt{21}e^{24} + \frac{7}{195}\sqrt{186}e^{36}$	$(-\frac{7}{39}, \frac{77}{195}, \frac{7}{65}, -\frac{14}{39}, \frac{14}{65}, -\frac{14}{195}, \frac{119}{195}, \frac{7}{195})$ $+ \frac{7}{65}\sqrt{107}e^2 \otimes e_4$	{12367, 127}
842:56	$0, 0, 0, 0, \frac{7}{775}\sqrt{354}e^{12}, \frac{21}{775}\sqrt{258}e^{13}, \frac{42}{775}\sqrt{67}e^{25},$ $\frac{21}{775}\sqrt{218}e^{15} + \frac{28}{775}\sqrt{39}e^{24} + \frac{42}{775}\sqrt{67}e^{36}$	$(\frac{21}{155}, -\frac{133}{775}, -\frac{14}{775}, \frac{42}{155}, -\frac{28}{775}, \frac{91}{775}, -\frac{161}{775}, \frac{77}{775})$ $+ \frac{21}{775}\sqrt{446}e^3 \otimes e_7$	{123458, 457}
842:58	$0, 0, 0, 0, \frac{21}{499}\sqrt{186}e^{12}, \frac{7}{499}\sqrt{1266}e^{13}, \frac{14}{499}\sqrt{435}e^{15} + \frac{21}{499}\sqrt{230}e^{24},$ $\frac{21}{499}\sqrt{230}e^{16} + \frac{21}{499}\sqrt{22}e^{25}$	$(\frac{77}{499}, -\frac{35}{499}, -\frac{147}{499}, \frac{154}{499}, \frac{42}{499}, -\frac{70}{499}, \frac{119}{499}, \frac{7}{499})$ $+ \frac{21}{499}\sqrt{290}e^4 \otimes e_8$	{23678, 3568}
842:58	$0, 0, 0, 0, \frac{10}{119}\sqrt{102}e^{12}, \frac{45}{119}\sqrt{3}e^{13}, \frac{15}{119}\sqrt{46}e^{15} + \frac{5}{119}\sqrt{237}e^{24},$ $\frac{5}{119}\sqrt{30}e^{16} + \frac{15}{119}\sqrt{2}e^{25}$	$(\frac{55}{238}, -\frac{10}{119}, -\frac{95}{238}, \frac{55}{119}, \frac{5}{34}, -\frac{20}{119}, \frac{45}{119}, \frac{15}{238})$ $+ \frac{15}{119}\sqrt{69}e^1 \otimes e_3$	{1247, 145, 234578, 348}
842:58	$0, 0, 0, 0, \frac{10}{119}\sqrt{102}e^{12}, \frac{45}{119}\sqrt{3}e^{13}, \frac{15}{119}\sqrt{46}e^{15} + \frac{5}{119}\sqrt{237}e^{24},$ $\frac{5}{119}\sqrt{30}e^{16} + \frac{15}{119}\sqrt{2}e^{25}$	$(\frac{55}{238}, -\frac{10}{119}, -\frac{95}{238}, \frac{55}{119}, \frac{5}{34}, -\frac{20}{119}, \frac{45}{119}, \frac{15}{238})$ $- \frac{15}{119}\sqrt{69}e^1 \otimes e_3$	{1247, 145, 234578, 348}
842:58	$0, 0, 0, 0, \frac{3}{14}\sqrt{15}e^{12}, \frac{1}{14}\sqrt{57}e^{13}, \frac{1}{14}\sqrt{51}e^{15} + \frac{3}{14}\sqrt{10}e^{24},$ $\frac{3}{14}\sqrt{10}e^{16} + \frac{3}{14}\sqrt{11}e^{25}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{7}, 0, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{3}{14}\sqrt{17}e^2 \otimes e_4$	{134568, 46}
842:59	$0, 0, 0, 0, \frac{46}{641}\sqrt{6}e^{12}, \frac{23}{641}\sqrt{161}e^{13}, \frac{23}{641}\sqrt{454}e^{14} + \frac{299}{641}e^{25},$ $\frac{23}{641}\sqrt{274}e^{15} + \frac{92}{641}\sqrt{21}e^{36}$	$(-\frac{161}{641}, \frac{207}{641}, \frac{23}{641}, \frac{414}{641}, \frac{46}{641}, -\frac{138}{641}, \frac{253}{641}, -\frac{115}{641})$ $+ \frac{23}{641}\sqrt{1061}e^4 \otimes e_8$	{358, 568}
842:59	$0, 0, 0, 0, \frac{39}{2597}\sqrt{122}e^{12}, \frac{13}{2597}\sqrt{2514}e^{13},$ $\frac{156}{2597}\sqrt{10}e^{14} + \frac{26}{2597}\sqrt{537}e^{25}, \frac{13}{2597}\sqrt{2690}e^{15} + \frac{78}{2597}\sqrt{73}e^{36}$	$(\frac{247}{2597}, -\frac{195}{2597}, \frac{26}{2597}, -\frac{390}{2597}, \frac{52}{2597}, \frac{39}{371}, -\frac{143}{2597}, \frac{299}{2597})$ $+ \frac{13}{2597}\sqrt{4534}e^3 \otimes e_7$	{123458, 457}
842:59	$0, 0, 0, 0, \frac{22}{161}\sqrt{29}e^{12}, \frac{11}{161}\sqrt{55}e^{13}, \frac{99}{161}e^{14} + \frac{33}{322}\sqrt{2}e^{25},$ $\frac{11}{161}\sqrt{122}e^{15} + \frac{33}{322}\sqrt{10}e^{36}$	$(\frac{55}{161}, -\frac{33}{161}, \frac{11}{161}, -\frac{66}{161}, \frac{22}{161}, \frac{66}{161}, -\frac{11}{161}, \frac{11}{23})$ $+ \frac{11}{322}\sqrt{1070}e^1 \otimes e_4$	{234568, 2458}
842:60	$0, 0, 0, 0, -\frac{11}{153}\sqrt{139}e^{12}, \frac{11}{153}\sqrt{33}e^{13}, \frac{22}{153}\sqrt{2}e^{15} + \frac{11}{153}\sqrt{78}e^{24},$ $\frac{11}{51}\sqrt{15}e^{25} + \frac{11}{153}\sqrt{29}e^{36}$	$(-\frac{11}{51}, \frac{55}{153}, \frac{55}{153}, -\frac{22}{51}, \frac{22}{153}, \frac{22}{153}, -\frac{11}{153}, \frac{77}{153})$ $+ \frac{11}{153}\sqrt{258}e^2 \otimes e_4$	{134568, 1458, 34, 46, 134568, 1458, 34, 46}
842:60	$0, 0, 0, 0, \frac{11}{153}\sqrt{139}e^{12}, \frac{11}{153}\sqrt{33}e^{13}, \frac{22}{153}\sqrt{2}e^{15} + \frac{11}{153}\sqrt{78}e^{24},$ $\frac{11}{51}\sqrt{15}e^{25} + \frac{11}{153}\sqrt{29}e^{36}$	$(-\frac{11}{51}, \frac{55}{153}, \frac{55}{153}, -\frac{22}{51}, \frac{22}{153}, \frac{22}{153}, -\frac{11}{153}, \frac{77}{153})$ $+ \frac{11}{153}\sqrt{258}e^2 \otimes e_4$	{134568, 1458, 34, 46, 134568, 1458, 34, 46}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:60	$0, 0, 0, 0, -\frac{7}{324}\sqrt{282}e^{12}, \frac{7}{324}\sqrt{454}e^{13}, \frac{7}{54}\sqrt{6}e^{15} + \frac{7}{162}\sqrt{146}e^{24},$ $\frac{7}{324}\sqrt{390}e^{25} + \frac{7}{324}\sqrt{562}e^{36}$	$(-\frac{49}{324}, \frac{35}{162}, \frac{35}{162}, -\frac{49}{162}, \frac{7}{108}, \frac{7}{108}, -\frac{7}{81}, \frac{91}{324})$ $+\frac{7}{81}\sqrt{69}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:60	$0, 0, 0, 0, \frac{7}{324}\sqrt{282}e^{12}, \frac{7}{324}\sqrt{454}e^{13}, \frac{7}{54}\sqrt{6}e^{15} + \frac{7}{162}\sqrt{146}e^{24},$ $\frac{7}{324}\sqrt{390}e^{25} + \frac{7}{324}\sqrt{562}e^{36}$	$(-\frac{49}{324}, \frac{35}{162}, \frac{35}{162}, -\frac{49}{162}, \frac{7}{108}, \frac{7}{108}, -\frac{7}{81}, \frac{91}{324})$ $+\frac{7}{81}\sqrt{69}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
842:63	$0, 0, 0, 0, \frac{148}{2457}\sqrt{26}e^{12}, \frac{37}{2457}\sqrt{254}e^{13},$ $\frac{37}{2457}\sqrt{1646}e^{15} + \frac{37}{2457}\sqrt{2102}e^{34}, \frac{74}{2457}\sqrt{449}e^{16} + \frac{74}{2457}\sqrt{397}e^{25}$	$(\frac{407}{2457}, -\frac{185}{2457}, -\frac{37}{117}, \frac{1406}{2457}, \frac{74}{819}, -\frac{370}{2457}, \frac{629}{2457}, \frac{37}{2457})$ $+\frac{148}{2457}\sqrt{257}e^4 \otimes e_8$	{124567, 23678}
842:63	$0, 0, 0, 0, \frac{424}{787}e^{12}, \frac{53}{2361}\sqrt{2030}e^{13}, \frac{53}{2361}\sqrt{622}e^{15} + \frac{53}{2361}\sqrt{170}e^{34},$ $\frac{106}{2361}\sqrt{149}e^{16} + \frac{106}{2361}\sqrt{77}e^{25}$	$(-\frac{265}{2361}, \frac{583}{2361}, \frac{477}{787}, -\frac{1378}{2361}, \frac{106}{787}, \frac{1166}{2361}, \frac{53}{2361}, \frac{901}{2361})$ $+\frac{212}{2361}\sqrt{239}e^3 \otimes e_4$	{146, 3568}
842:64	$0, 0, 0, 0, -\frac{11}{153}\sqrt{29}e^{12}, \frac{11}{51}\sqrt{15}e^{13}, \frac{22}{153}\sqrt{2}e^{15} + \frac{11}{153}\sqrt{78}e^{34},$ $\frac{11}{153}\sqrt{33}e^{25} + \frac{11}{153}\sqrt{139}e^{36}$	$(-\frac{11}{51}, \frac{55}{153}, \frac{55}{153}, -\frac{22}{51}, \frac{22}{153}, \frac{22}{153}, -\frac{11}{153}, \frac{77}{153})$ $+\frac{11}{153}\sqrt{258}e^3 \otimes e_4$	{12358, 124568, 236, 24, 12358, 124568, 236, 24}
842:64	$0, 0, 0, 0, \frac{11}{153}\sqrt{29}e^{12}, \frac{11}{51}\sqrt{15}e^{13}, \frac{22}{153}\sqrt{2}e^{15} + \frac{11}{153}\sqrt{78}e^{34},$ $\frac{11}{153}\sqrt{33}e^{25} + \frac{11}{153}\sqrt{139}e^{36}$	$(-\frac{11}{51}, \frac{55}{153}, \frac{55}{153}, -\frac{22}{51}, \frac{22}{153}, \frac{22}{153}, -\frac{11}{153}, \frac{77}{153})$ $+\frac{11}{153}\sqrt{258}e^3 \otimes e_4$	{12358, 124568, 236, 24, 12358, 124568, 236, 24}
842:66	$0, 0, 0, 0, \frac{45}{139}\sqrt{2}e^{12}, \frac{10}{139}\sqrt{93}e^{13}, \frac{5}{139}\sqrt{318}e^{25} + \frac{5}{139}\sqrt{534}e^{34},$ $\frac{5}{139}\sqrt{534}e^{15} + \frac{5}{139}\sqrt{78}e^{36}$	$(-\frac{35}{139}, \frac{45}{139}, \frac{5}{139}, \frac{50}{139}, \frac{10}{139}, -\frac{30}{139}, \frac{55}{139}, -\frac{25}{139})$ $+\frac{60}{139}\sqrt{5}e^4 \otimes e_8$	{128, 467}
842:66	$0, 0, 0, 0, \frac{15}{523}\sqrt{94}e^{12}, \frac{10}{523}\sqrt{699}e^{13}, \frac{5}{523}\sqrt{1554}e^{25} + \frac{5}{523}\sqrt{2202}e^{34},$ $\frac{5}{523}\sqrt{2202}e^{15} + \frac{5}{523}\sqrt{2514}e^{36}$	$(\frac{85}{523}, -\frac{75}{523}, \frac{5}{523}, -\frac{70}{523}, \frac{10}{523}, \frac{90}{523}, -\frac{65}{523}, \frac{95}{523})$ $+\frac{120}{523}\sqrt{5}e^3 \otimes e_4$	{12358, 124568}
842:68	$0, 0, 0, 0, \frac{14}{65}\sqrt{6}e^{12}, \frac{14}{65}\sqrt{6}e^{13}, \frac{7}{65}\sqrt{34}e^{16} + \frac{7}{65}\sqrt{15}e^{25},$ $\frac{7}{65}\sqrt{34}e^{15} + \frac{7}{65}\sqrt{15}e^{36}$	$(\frac{7}{65}, \frac{7}{65}, \frac{7}{65}, -\frac{42}{65}, \frac{14}{65}, \frac{14}{65}, \frac{21}{65}, \frac{21}{65})$ $+\frac{7}{65}\sqrt{107}e^1 \otimes e_4$	{156, 2345678}
842:68	$0, 0, 0, 0, \frac{1}{12}\sqrt{30}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{6}e^{16} + \frac{1}{6}\sqrt{21}e^{25},$ $\frac{1}{6}\sqrt{15}e^{15} + \frac{1}{12}\sqrt{6}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{4}\sqrt{26}e^4 \otimes e_7$	{124568, 3567}
842:68	$0, 0, 0, 0, \frac{7}{195}\sqrt{537}e^{12}, \frac{7}{195}\sqrt{105}e^{13}, \frac{28}{195}\sqrt{21}e^{16} + \frac{7}{15}\sqrt{3}e^{25},$ $\frac{7}{195}\sqrt{15}e^{15} + \frac{7}{195}\sqrt{186}e^{36}$	$(\frac{7}{65}, \frac{7}{65}, \frac{7}{65}, -\frac{42}{65}, \frac{14}{65}, \frac{14}{65}, \frac{21}{65}, \frac{21}{65})$ $+\frac{7}{65}\sqrt{107}e^2 \otimes e_4$	{12367, 468}
842:89	$0, 0, 0, 0, \frac{1}{13}\sqrt{30}e^{12}, \frac{1}{13}\sqrt{30}e^{34}, \frac{1}{13}\sqrt{30}e^{15}, \frac{1}{13}\sqrt{30}e^{36}$	$(-\frac{3}{13}, \frac{5}{13}, -\frac{3}{13}, \frac{5}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13})$ $+\frac{1}{13}\sqrt{66}e^2 \otimes e_8 - \frac{1}{13}\sqrt{66}e^4 \otimes e_7$	{12367, 127, 14568, 257}
842:89	$0, 0, 0, 0, \frac{1}{13}\sqrt{30}e^{12}, \frac{1}{13}\sqrt{30}e^{34}, \frac{1}{13}\sqrt{30}e^{15}, \frac{1}{13}\sqrt{30}e^{36}$	$(-\frac{3}{13}, \frac{5}{13}, -\frac{3}{13}, \frac{5}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13})$ $+\frac{1}{13}\sqrt{66}e^2 \otimes e_8 + \frac{1}{13}\sqrt{66}e^4 \otimes e_7$	{12367, 127, 14568, 257}
842:89	$0, 0, 0, 0, \frac{2}{159}\sqrt{30}e^{12}, \frac{2}{159}\sqrt{30}e^{34}, \frac{2}{159}\sqrt{53}e^{15}, \frac{2}{159}\sqrt{53}e^{36}$	$(\frac{7}{159}, -\frac{3}{53}, \frac{7}{159}, -\frac{3}{53}, -\frac{2}{159}, -\frac{2}{159}, \frac{5}{159}, \frac{5}{159})$ $+\frac{2}{159}\sqrt{69}e^1 \otimes e_8 + \frac{2}{159}\sqrt{69}e^3 \otimes e_7$	{127, 1356, 245678}
842:89	$0, 0, 0, 0, \frac{1}{17}\sqrt{11}e^{12}, \frac{1}{51}\sqrt{462}e^{34}, \frac{2}{51}\sqrt{187}e^{15}, \frac{1}{17}\sqrt{11}e^{36}$	$(\frac{7}{51}, -\frac{5}{17}, -\frac{2}{17}, \frac{7}{17}, -\frac{8}{51}, \frac{5}{17}, -\frac{1}{51}, \frac{3}{17})$ $+\frac{11}{17}e^4 \otimes e_7 + \frac{1}{51}\sqrt{858}e^1 \otimes e_2$	{13458, 14568, 23567, 257}
842:89	$0, 0, 0, 0, \frac{2}{127}\sqrt{113}e^{12}, \frac{1}{381}\sqrt{19662}e^{34}, \frac{1}{381}\sqrt{28702}e^{15}, \frac{1}{381}\sqrt{19662}e^{36}$	$(\frac{29}{381}, -\frac{28}{127}, \frac{29}{127}, -\frac{11}{127}, -\frac{55}{381}, \frac{18}{127}, -\frac{26}{381}, \frac{47}{127})$ $+\frac{1}{127}\sqrt{5198}e^3 \otimes e_7 + \frac{1}{381}\sqrt{1695}e^1 \otimes e_2$	{13458, 1356, 245678, 257}
842:89	$0, 0, 0, 0, \frac{10}{177}\sqrt{30}e^{12}, \frac{20}{177}\sqrt{6}e^{34}, \frac{4}{177}\sqrt{295}e^{15}, \frac{10}{177}\sqrt{30}e^{36}$	$(\frac{16}{177}, -\frac{4}{59}, -\frac{14}{59}, \frac{20}{59}, \frac{4}{177}, \frac{6}{177}, \frac{20}{177}, -\frac{8}{59})$ $+\frac{2}{177}\sqrt{1290}e^4 \otimes e_7 + \frac{4}{177}\sqrt{435}e^1 \otimes e_8$	{12367, 127, 348, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:89	$0, 0, 0, 0, \frac{1}{87}\sqrt{2958}e^{12}, \frac{2}{29}\sqrt{17}e^{34}, \frac{1}{87}\sqrt{2958}e^{15}, \frac{1}{87}\sqrt{2958}e^{36}$	$(\frac{1}{3}, -\frac{11}{87}, -\frac{17}{87}, \frac{4}{29}, \frac{6}{29}, -\frac{5}{87}, \frac{47}{87}, -\frac{22}{87})$ $+\frac{1}{29}\sqrt{782}e^1 \otimes e_8$	{12367, 127, 1356, 15, 234578, 245678, 348, 468}
842:89	$0, 0, 0, 0, \frac{2}{21}\sqrt{7}e^{12}, \frac{2}{21}\sqrt{7}e^{34}, \frac{4}{21}\sqrt{7}e^{15}, \frac{4}{21}\sqrt{7}e^{36}$	$(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, 0, \frac{1}{3}, \frac{1}{3})$ $+\frac{2}{7}\sqrt{7}e^1 \otimes e_2 + \frac{2}{7}\sqrt{7}e^3 \otimes e_4$	{1356, 14568, 245678}
842:89	$0, 0, 0, 0, \frac{1}{21}\sqrt{266}e^{12}, \frac{1}{21}\sqrt{57}e^{34}, \frac{1}{21}\sqrt{57}e^{15}, \frac{1}{21}\sqrt{266}e^{36}$	$(-\frac{4}{21}, \frac{2}{3}, -\frac{4}{21}, \frac{1}{7}, \frac{10}{21}, -\frac{1}{21}, \frac{2}{7}, -\frac{5}{21})$ $+\frac{1}{21}\sqrt{627}e^2 \otimes e_8$	{12367, 127, 13458, 14568, 23567, 257, 348, 468}
842:89	$0, 0, 0, 0, \frac{2}{27}\sqrt{33}e^{12}, \frac{2}{27}\sqrt{33}e^{34}, \frac{1}{9}\sqrt{66}e^{15}, \frac{2}{27}\sqrt{33}e^{36}$	$(\frac{16}{27}, -\frac{17}{27}, \frac{2}{27}, \frac{4}{27}, -\frac{1}{27}, \frac{2}{9}, \frac{5}{9}, \frac{8}{27})$ $+\frac{1}{9}\sqrt{154}e^1 \otimes e_2$	{13458, 1356, 14568, 15, 234578, 23567, 245678, 257}
842:90	$0, 0, 0, 0, \frac{2}{63}\sqrt{69}e^{12}, \frac{2}{63}\sqrt{69}e^{34}, \frac{2}{21}\sqrt{69}e^{13} + \frac{2}{63}\sqrt{69}e^{25},$ $\frac{1}{21}\sqrt{230}e^{36}$	$(-\frac{4}{63}, \frac{16}{63}, \frac{32}{63}, -\frac{37}{63}, \frac{4}{21}, -\frac{5}{63}, \frac{4}{9}, \frac{3}{7})$ $+\frac{1}{21}\sqrt{782}e^3 \otimes e_4$	{12457, 147, 24, 45}
842:90	$0, 0, 0, 0, \frac{12}{47}\sqrt{2}e^{12}, \frac{2}{47}\sqrt{33}e^{34}, \frac{10}{47}\sqrt{3}e^{13} + \frac{12}{47}\sqrt{2}e^{25},$ $\frac{12}{47}\sqrt{2}e^{36}$	$(\frac{9}{47}, -\frac{1}{47}, -\frac{2}{47}, -\frac{3}{47}, \frac{8}{47}, -\frac{5}{47}, \frac{7}{47}, -\frac{7}{47})$ $+\frac{6}{47}\sqrt{13}e^2 \otimes e_8$	{12367, 134578, 2356, 348}
842:90	$0, 0, 0, 0, \frac{9}{79}\sqrt{6}e^{12}, \frac{3}{79}\sqrt{21}e^{34}, \frac{3}{79}\sqrt{114}e^{13} + \frac{3}{79}\sqrt{21}e^{25},$ $\frac{6}{79}\sqrt{30}e^{36}$	$(\frac{18}{79}, \frac{3}{79}, \frac{6}{79}, -\frac{21}{79}, \frac{21}{79}, -\frac{15}{79}, \frac{24}{79}, -\frac{9}{79})$ $+\frac{45}{79}e^1 \otimes e_8 + \frac{9}{79}\sqrt{22}e^3 \otimes e_4$	{23578, 378}
842:90	$0, 0, 0, 0, \frac{2}{125}\sqrt{435}e^{12}, \frac{2}{125}\sqrt{195}e^{34}, \frac{2}{125}\sqrt{435}e^{13} + \frac{2}{125}\sqrt{435}e^{25},$ $\frac{1}{125}\sqrt{1830}e^{36}$	$(\frac{4}{25}, 0, 0, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25})$ $+\frac{24}{125}\sqrt{5}e^2 \otimes e_8 + \frac{3}{125}\sqrt{30}e^3 \otimes e_4$	{12367, 2356}
842:90	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}\sqrt{6}e^{13} + \frac{1}{7}\sqrt{6}e^{25},$ $\frac{1}{7}\sqrt{6}e^{36}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+\frac{3}{7}\sqrt{2}e^1 \otimes e_8 - \frac{3}{7}\sqrt{2}e^4 \otimes e_7$	{127, 157, 24568, 468}
842:90	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}\sqrt{6}e^{13} + \frac{1}{7}\sqrt{6}e^{25},$ $\frac{1}{7}\sqrt{6}e^{36}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+\frac{3}{7}\sqrt{2}e^1 \otimes e_8 + \frac{3}{7}\sqrt{2}e^4 \otimes e_7$	{127, 157, 24568, 468}
842:90	$0, 0, 0, 0, \frac{2}{95}\sqrt{114}e^{12}, \frac{2}{95}\sqrt{69}e^{34}, \frac{2}{95}\sqrt{111}e^{13} + \frac{4}{95}\sqrt{33}e^{25},$ $\frac{2}{95}\sqrt{114}e^{36}$	$(\frac{13}{95}, -\frac{1}{19}, -\frac{2}{19}, \frac{9}{95}, \frac{8}{95}, -\frac{1}{95}, \frac{3}{95}, -\frac{11}{95})$ $+\frac{6}{95}\sqrt{21}e^2 \otimes e_8 + \frac{6}{95}\sqrt{6}e^4 \otimes e_7$	{12367, 348}
842:90	$0, 0, 0, 0, \frac{1}{17}\sqrt{15}e^{12}, \frac{5}{17}\sqrt{6}e^{34}, \frac{2}{17}\sqrt{15}e^{13} + \frac{5}{17}\sqrt{6}e^{25},$ $\frac{1}{17}\sqrt{15}e^{36}$	$(\frac{1}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{12}{17}, -\frac{1}{17}, \frac{8}{17}, -\frac{3}{17}, \frac{4}{17})$ $+\frac{9}{17}\sqrt{5}e^4 \otimes e_7$	{127, 157, 24568, 468}
842:90	$0, 0, 0, 0, \frac{5}{17}\sqrt{6}e^{12}, \frac{1}{17}\sqrt{15}e^{34}, \frac{2}{17}\sqrt{15}e^{13} + \frac{1}{17}\sqrt{15}e^{25},$ $\frac{5}{17}\sqrt{6}e^{36}$	$(\frac{10}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{8}{17}, -\frac{1}{17}, \frac{6}{17}, -\frac{5}{17})$ $+\frac{9}{17}\sqrt{5}e^1 \otimes e_8$	{127, 157, 24568, 468}
842:91	$0, 0, 0, 0, \frac{2}{57}\sqrt{30}e^{12}, \frac{4}{57}\sqrt{6}e^{34}, \frac{4}{57}\sqrt{19}e^{15},$ $\frac{8}{57}\sqrt{3}e^{23} + \frac{2}{57}\sqrt{30}e^{46}$	$(\frac{8}{57}, -\frac{4}{19}, \frac{4}{19}, -\frac{2}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{4}{57}, 0)$ $+\frac{2}{19}\sqrt{10}e^3 \otimes e_7 + \frac{4}{19}\sqrt{3}e^1 \otimes e_8$	{348, 368}
842:91	$0, 0, 0, 0, \frac{1}{4047}\sqrt{1686}e^{12}, \frac{4}{4047}\sqrt{114}e^{34}, \frac{1}{4047}\sqrt{2698}e^{15},$ $\frac{1}{4047}\sqrt{690}e^{23} + \frac{4}{4047}\sqrt{183}e^{46}$	$(-\frac{8}{4047}, \frac{10}{1349}, -\frac{13}{1349}, \frac{5}{1349}, \frac{22}{4047}, -\frac{8}{1349}, \frac{14}{4047}, -\frac{3}{1349})$ $+\frac{3}{1349}\sqrt{46}e^4 \otimes e_7 + \frac{4}{1349}\sqrt{23}e^1 \otimes e_8$	{127, 235678}
842:91	$0, 0, 0, 0, \frac{1}{255}\sqrt{8814}e^{12}, \frac{2}{85}\sqrt{678}e^{34}, \frac{1}{255}\sqrt{19210}e^{15},$ $\frac{1}{255}\sqrt{15594}e^{23} + \frac{2}{85}\sqrt{678}e^{46}$	$(-\frac{76}{255}, \frac{26}{85}, \frac{3}{85}, \frac{13}{85}, \frac{2}{255}, \frac{16}{85}, -\frac{74}{255}, \frac{29}{85})$ $+\frac{1}{85}\sqrt{5198}e^4 \otimes e_7$	{123678, 127, 235678, 257}
842:91	$0, 0, 0, 0, \frac{10}{519}\sqrt{858}e^{12}, \frac{4}{519}\sqrt{429}e^{34}, \frac{2}{519}\sqrt{24739}e^{15},$ $\frac{2}{519}\sqrt{9867}e^{23} + \frac{10}{519}\sqrt{858}e^{46}$	$(\frac{196}{519}, -\frac{38}{173}, \frac{8}{173}, -\frac{19}{173}, \frac{82}{519}, -\frac{11}{173}, \frac{278}{519}, -\frac{30}{173})$ $+\frac{2}{173}\sqrt{6578}e^1 \otimes e_8$	{1456, 15, 348, 368}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
842:91	$0, 0, 0, 0, \frac{2}{123}\sqrt{141}e^{12}, \frac{2}{123}\sqrt{1410}e^{34}, \frac{2}{123}\sqrt{1927}e^{15},$ $\frac{2}{123}\sqrt{1551}e^{23} + \frac{2}{123}\sqrt{141}e^{46}$	$(-\frac{14}{123}, -\frac{2}{41}, \frac{20}{41}, -\frac{1}{41}, -\frac{20}{123}, \frac{19}{41}, -\frac{34}{123}, \frac{18}{41})$ $+ \frac{2}{41}\sqrt{517}e^3 \otimes e_7$	{12345, 12356, 234, 236}
842:92	$0, 0, 0, 0, \frac{2}{97}\sqrt{143}e^{12}, \frac{1}{291}\sqrt{27742}e^{34}, \frac{13}{97}\sqrt{22}e^{15},$ $\frac{2}{291}\sqrt{4290}e^{25} + \frac{13}{97}\sqrt{22}e^{36}$	$(-\frac{27}{97}, \frac{32}{97}, \frac{77}{291}, -\frac{43}{291}, \frac{5}{97}, \frac{34}{291}, -\frac{22}{97}, \frac{37}{97})$ $+ \frac{1}{291}\sqrt{67782}e^3 \otimes e_7$	{127, 1356, 245678, 348}
842:92	$0, 0, 0, 0, \frac{2}{797}\sqrt{438}e^{12}, \frac{2}{797}\sqrt{462}e^{34}, \frac{6}{797}\sqrt{93}e^{15},$ $\frac{4}{797}\sqrt{30}e^{25} + \frac{6}{797}\sqrt{93}e^{36}$	$(\frac{13}{797}, -\frac{3}{797}, \frac{29}{797}, -\frac{51}{797}, \frac{10}{797}, -\frac{22}{797}, \frac{23}{797}, \frac{7}{797})$ $- \frac{2}{797}\sqrt{1005}e^1 \otimes e_8 + \frac{2}{797}\sqrt{1077}e^3 \otimes e_7$	{127, 1356, 245678, 348}
842:92	$0, 0, 0, 0, \frac{2}{797}\sqrt{438}e^{12}, \frac{2}{797}\sqrt{462}e^{34}, \frac{6}{797}\sqrt{93}e^{15},$ $\frac{4}{797}\sqrt{30}e^{25} + \frac{6}{797}\sqrt{93}e^{36}$	$(\frac{13}{797}, -\frac{3}{797}, \frac{29}{797}, -\frac{51}{797}, \frac{10}{797}, -\frac{22}{797}, \frac{23}{797}, \frac{7}{797})$ $+ \frac{2}{797}\sqrt{1005}e^1 \otimes e_8 + \frac{2}{797}\sqrt{1077}e^3 \otimes e_7$	{127, 1356, 245678, 348}
842:92	$0, 0, 0, 0, \frac{4}{111}\sqrt{134}e^{12}, \frac{4}{111}\sqrt{134}e^{34}, \frac{2}{111}\sqrt{737}e^{15},$ $\frac{2}{37}\sqrt{67}e^{25} + \frac{4}{111}\sqrt{670}e^{36}$	$(\frac{5}{111}, \frac{25}{111}, \frac{21}{37}, -\frac{71}{111}, \frac{10}{37}, -\frac{8}{111}, \frac{35}{111}, \frac{55}{111})$ $+ \frac{2}{111}\sqrt{5829}e^3 \otimes e_4$	{12367, 1356, 245678, 468}
842:92	$0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{4}{9}\sqrt{3}e^{34}, \frac{2}{9}\sqrt{13}e^{15},$ $\frac{2}{9}\sqrt{3}e^{25} + \frac{1}{9}\sqrt{14}e^{36}$	$(-\frac{2}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{2}{9}, 0, \frac{4}{9}, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{1}{9}\sqrt{114}e^4 \otimes e_7$	{12367, 127, 348, 468}
842:95	$0, 0, 0, 0, \frac{28}{199}\sqrt{15}e^{12}, \frac{14}{199}\sqrt{21}e^{34}, \frac{14}{199}\sqrt{21}e^{15} + \frac{126}{199}e^{23},$ $\frac{35}{199}\sqrt{6}e^{13} + \frac{14}{199}\sqrt{87}e^{46}$	$(-\frac{14}{199}, \frac{105}{199}, -\frac{28}{199}, -\frac{7}{199}, \frac{91}{199}, -\frac{35}{199}, \frac{77}{199}, -\frac{42}{199})$ $+ \frac{126}{199}\sqrt{3}e^2 \otimes e_8$	{123, 12346}
842:95	$0, 0, 0, 0, \frac{5}{841}\sqrt{942}e^{12}, \frac{5}{841}\sqrt{2346}e^{34}, \frac{5}{841}\sqrt{2346}e^{15} + \frac{15}{841}\sqrt{78}e^{23},$ $\frac{5}{841}\sqrt{2694}e^{13} + \frac{10}{841}\sqrt{645}e^{46}$	$(\frac{40}{841}, -\frac{135}{841}, \frac{80}{841}, \frac{20}{841}, -\frac{95}{841}, \frac{100}{841}, -\frac{55}{841}, \frac{120}{841})$ $+ \frac{90}{841}\sqrt{13}e^4 \otimes e_7$	{127, 1456}
842:96	$0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{1}{5}\sqrt{15}e^{34}, \frac{1}{5}\sqrt{15}e^{15} + \frac{2}{5}\sqrt{6}e^{23},$ $\frac{2}{5}\sqrt{6}e^{14} + \frac{1}{5}\sqrt{6}e^{36}$	$(0, \frac{2}{5}, 0, -\frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, \frac{2}{5}, -\frac{1}{5})$ $+ \frac{3}{5}\sqrt{3}e^2 \otimes e_8$	{267, 458}
842:97	$0, 0, 0, 0, \frac{68}{823}\sqrt{15}e^{12}, \frac{68}{823}\sqrt{15}e^{34}, \frac{17}{823}\sqrt{1590}e^{13} + \frac{34}{823}\sqrt{3}e^{25},$ $\frac{102}{823}\sqrt{19}e^{15} + \frac{136}{823}\sqrt{21}e^{36}$	$(\frac{34}{823}, \frac{187}{823}, \frac{374}{823}, -\frac{493}{823}, \frac{221}{823}, -\frac{119}{823}, \frac{408}{823}, \frac{255}{823})$ $+ \frac{102}{823}\sqrt{113}e^3 \otimes e_4$	{147, 45}
842:97	$0, 0, 0, 0, \frac{1}{14}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{6}e^{34}, \frac{2}{7}\sqrt{3}e^{13} + \frac{3}{7}\sqrt{3}e^{25},$ $\frac{3}{7}e^{15} + \frac{3}{14}\sqrt{2}e^{36}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{5}{7}, 0, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{3}{14}\sqrt{30}e^4 \otimes e_7$	{127, 468}
842:98	$0, 0, 0, 0, \frac{1}{185}\sqrt{1230}e^{12}, \frac{3}{185}\sqrt{310}e^{34}, \frac{6}{185}\sqrt{85}e^{15},$ $\frac{2}{185}\sqrt{705}e^{13} + \frac{9}{185}\sqrt{10}e^{25} + \frac{6}{185}\sqrt{85}e^{46}$	$(-\frac{4}{37}, \frac{3}{37}, \frac{6}{37}, -\frac{2}{37}, -\frac{1}{37}, \frac{4}{37}, -\frac{5}{37}, \frac{2}{37})$ $+ \frac{6}{185}\sqrt{130}e^4 \otimes e_7$	{127, 1456}
842:98	$0, 0, 0, 0, \frac{1}{14}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{6}e^{34}, \frac{3}{7}\sqrt{3}e^{15},$ $\frac{2}{7}\sqrt{3}e^{13} + \frac{3}{7}e^{25} + \frac{3}{14}\sqrt{2}e^{46}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{4}{7}, -\frac{1}{7}, 0, \frac{3}{7}, -\frac{2}{7}, \frac{2}{7})$ $+ \frac{3}{14}\sqrt{30}e^3 \otimes e_7$	{348, 368}
842:99	$0, 0, 0, 0, \frac{5}{147}\sqrt{14}e^{12}, \frac{5}{441}\sqrt{1582}e^{34}, \frac{10}{441}\sqrt{357}e^{13} + \frac{10}{63}\sqrt{11}e^{25},$ $\frac{5}{441}\sqrt{1722}e^{15} + \frac{10}{441}\sqrt{658}e^{46}$	$(\frac{5}{21}, -\frac{10}{63}, -\frac{20}{63}, \frac{20}{63}, \frac{5}{63}, 0, -\frac{5}{63}, \frac{20}{63})$ $+ \frac{10}{441}\sqrt{1281}e^4 \otimes e_7$	{123458, 23678}
841:1	$0, 0, 0, 0, \frac{4}{499}\sqrt{2586}e^{12}, \frac{1}{499}\sqrt{73270}e^{13}, \frac{2}{499}\sqrt{33187}e^{23},$ $\frac{2}{499}\sqrt{29739}e^{15}$	$(-\frac{80}{499}, -\frac{11}{499}, \frac{260}{499}, \frac{95}{499}, -\frac{91}{499}, \frac{180}{499}, \frac{249}{499}, -\frac{171}{499})$ $+ \frac{2}{499}\sqrt{87062}e^3 \otimes e_8$	{12345, 1235, 1468, 168, 2346, 236, 458, 58}
841:1	$0, 0, 0, 0, \frac{6}{751}\sqrt{290}e^{12}, \frac{6}{751}\sqrt{2117}e^{13}, \frac{3}{751}\sqrt{11310}e^{23}, \frac{42}{751}\sqrt{29}e^{15}$	$(-\frac{174}{751}, \frac{186}{751}, \frac{99}{751}, \frac{12}{751}, -\frac{75}{751}, \frac{285}{751}, -\frac{162}{751})$ $+ \frac{30}{751}\sqrt{203}e^3 \otimes e_8 + \frac{3}{751}\sqrt{18038}e^2 \otimes e_6$	{24578, 2578, 3467, 367}
841:1	$0, 0, 0, 0, \frac{12}{65}\sqrt{5}e^{12}, \frac{8}{65}\sqrt{5}e^{13}, \frac{12}{65}\sqrt{5}e^{23}, \frac{4}{13}\sqrt{2}e^{15}$	$(-\frac{14}{65}, \frac{22}{65}, -\frac{4}{65}, \frac{34}{65}, \frac{8}{65}, -\frac{18}{65}, \frac{18}{65}, -\frac{6}{65})$ $+ \frac{4}{13}\sqrt{5}e^4 \otimes e_8 + \frac{1}{65}\sqrt{155}e^2 \otimes e_6$	{1238, 1456, 2578, 3467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:1	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{53}\sqrt{22}e^{13}, \frac{10}{53}\sqrt{3}e^{23}, \frac{20}{53}e^{15}$	$(\frac{10}{53}, -\frac{5}{53}, -\frac{10}{53}, \frac{25}{53}, \frac{5}{53}, 0, -\frac{15}{53}, \frac{15}{53})$ $+\frac{10}{53}\sqrt{14}e^1 \otimes e_7 + \frac{30}{53}e^4 \otimes e_6$	{12348, 156, 24578, 367}
841:1	$0, 0, 0, 0, \frac{7}{65}\sqrt{30}e^{12}, \frac{7}{65}\sqrt{10}e^{13}, \frac{7}{65}\sqrt{30}e^{23}, \frac{14}{65}\sqrt{10}e^{15}$	$(\frac{5}{13}, -\frac{17}{65}, -\frac{7}{65}, \frac{1}{5}, \frac{8}{65}, \frac{18}{65}, -\frac{24}{65}, \frac{33}{65})$ $+\frac{14}{65}\sqrt{26}e^1 \otimes e_7$	{12348, 1238, 1456, 156, 24578, 2578, 3467, 367}
841:1	$0, 0, 0, 0, \frac{12}{41}\sqrt{7}e^{12}, \frac{14}{41}\sqrt{3}e^{13}, \frac{12}{41}\sqrt{7}e^{23}, \frac{2}{41}\sqrt{105}e^{15}$	$(-\frac{2}{41}, \frac{17}{41}, \frac{3}{41}, -\frac{25}{41}, \frac{15}{41}, \frac{1}{41}, \frac{20}{41}, \frac{13}{41})$ $+\frac{6}{41}\sqrt{77}e^2 \otimes e_4$	{12368, 1278, 134567, 145, 2358, 25678, 347, 46}
841:1	$0, 0, 0, 0, \frac{2}{499}\sqrt{33187}e^{12}, \frac{1}{499}\sqrt{73270}e^{13}, \frac{4}{499}\sqrt{2586}e^{23}, \frac{2}{499}\sqrt{29739}e^{15}$	$(\frac{122}{499}, -\frac{11}{499}, \frac{58}{499}, -\frac{309}{499}, \frac{111}{499}, \frac{180}{499}, \frac{47}{499}, \frac{233}{499})$ $+\frac{2}{499}\sqrt{87062}e^1 \otimes e_4$	{12378, 1268, 135, 1567, 2345678, 2458, 346, 47}
841:1	$0, 0, 0, 0, \frac{12}{199}\sqrt{39}e^{12}, \frac{18}{199}\sqrt{3}e^{13}, \frac{12}{199}\sqrt{39}e^{23}, \frac{6}{199}\sqrt{129}e^{15}$	$(\frac{34}{199}, -\frac{1}{199}, -\frac{19}{199}, -\frac{55}{199}, \frac{33}{199}, \frac{15}{199}, -\frac{20}{199}, \frac{67}{199})$ $+\frac{6}{199}\sqrt{237}e^2 \otimes e_4 + \frac{72}{199}\sqrt{2}e^1 \otimes e_7$	{12368, 145, 25678, 347}
841:1	$0, 0, 0, 0, \frac{1}{122}\sqrt{2831}e^{12}, \frac{1}{122}\sqrt{3874}e^{13}, \frac{1}{122}\sqrt{2831}e^{23}, \frac{3}{122}\sqrt{1490}e^{15}$	$(-\frac{33}{244}, \frac{3}{61}, \frac{57}{244}, 1, -\frac{21}{244}, \frac{6}{61}, \frac{69}{244}, -\frac{27}{122})$ $+\frac{1}{122}\sqrt{28906}e^4 \otimes e_8$	{12368, 1278, 134567, 145, 2358, 25678, 347, 46}
841:1	$0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{3}{115}\sqrt{1430}e^{13}, \frac{2}{115}\sqrt{429}e^{23}, \frac{4}{115}\sqrt{143}e^{15}$	$(-\frac{2}{23}, \frac{33}{115}, -\frac{18}{115}, 1, \frac{1}{5}, -\frac{28}{115}, \frac{3}{23}, \frac{13}{115})$ $+\frac{2}{115}\sqrt{6721}e^4 \otimes e_6$	{1234578, 12568, 134, 167, 23678, 248, 356, 457}
841:1	$0, 0, 0, 0, \frac{16}{307}\sqrt{30}e^{12}, \frac{16}{307}\sqrt{19}e^{13}, \frac{16}{307}\sqrt{106}e^{23}, \frac{16}{307}\sqrt{57}e^{15}$	$(-\frac{11}{307}, -\frac{41}{307}, \frac{65}{307}, \frac{152}{307}, -\frac{52}{307}, \frac{54}{307}, \frac{24}{307}, -\frac{63}{307})$ $+\frac{16}{307}\sqrt{155}e^3 \otimes e_8 + \frac{48}{307}\sqrt{13}e^4 \otimes e_7$	{12345, 1468, 2346, 458}
841:1	$0, 0, 0, 0, \frac{2}{475}\sqrt{15593}e^{12}, \frac{1}{475}\sqrt{141846}e^{13}, \frac{2}{475}\sqrt{33198}e^{23}, \frac{6}{475}\sqrt{503}e^{15}$	$(\frac{26}{475}, \frac{17}{475}, \frac{202}{475}, -\frac{301}{475}, \frac{43}{475}, \frac{12}{25}, \frac{219}{475}, \frac{69}{475})$ $+\frac{2}{475}\sqrt{97582}e^3 \otimes e_4$	{12358, 1245678, 137, 146, 2368, 2478, 3567, 45}
841:1	$0, 0, 0, 0, \frac{1}{749}\sqrt{47458}e^{12}, \frac{1}{749}\sqrt{42790}e^{13}, \frac{1}{749}\sqrt{164158}e^{23}, \frac{2}{749}\sqrt{2334}e^{15}$	$(-\frac{37}{749}, \frac{177}{749}, -\frac{25}{107}, \frac{391}{749}, \frac{20}{107}, -\frac{212}{749}, \frac{2}{749}, \frac{103}{749})$ $+\frac{10}{749}\sqrt{2334}e^4 \otimes e_7 + \frac{2}{749}\sqrt{69631}e^2 \otimes e_6$	{12348, 1456, 2578, 367}
841:1	$0, 0, 0, 0, \frac{2}{113}\sqrt{43}e^{12}, \frac{2}{113}\sqrt{645}e^{13}, \frac{3}{113}\sqrt{258}e^{23}, \frac{2}{113}\sqrt{129}e^{15}$	$(-\frac{14}{113}, \frac{34}{113}, \frac{5}{113}, -\frac{38}{113}, \frac{20}{113}, \frac{113}{113}, -\frac{9}{113}, \frac{39}{113}, \frac{6}{113})$ $+\frac{10}{113}\sqrt{43}e^3 \otimes e_4 + \frac{1}{113}\sqrt{4386}e^2 \otimes e_6$	{123, 14568, 2457, 3678}
841:1	$0, 0, 0, 0, \frac{3}{194}\sqrt{511}e^{12}, \frac{1}{194}\sqrt{146}e^{13}, \frac{3}{194}\sqrt{511}e^{23}, \frac{1}{194}\sqrt{9490}e^{15}$	$(\frac{59}{388}, -\frac{19}{97}, -\frac{11}{388}, \frac{47}{97}, -\frac{17}{388}, \frac{12}{97}, -\frac{87}{388}, \frac{21}{194})$ $+\frac{1}{194}\sqrt{10074}e^4 \otimes e_8 + \frac{5}{97}\sqrt{146}e^1 \otimes e_7$	{12368, 145, 25678, 347}
841:1	$0, 0, 0, 0, \frac{3}{479}\sqrt{1970}e^{12}, \frac{1}{479}\sqrt{43734}e^{13}, \frac{3}{479}\sqrt{23246}e^{23}, \frac{2}{479}\sqrt{13002}e^{15}$	$(\frac{103}{479}, -\frac{67}{479}, -\frac{45}{479}, 1, \frac{36}{479}, \frac{58}{479}, -\frac{112}{479}, \frac{139}{479})$ $+\frac{48}{479}\sqrt{197}e^4 \otimes e_7$	{123456, 1257, 13678, 148, 234, 267, 3578, 4568}
841:1	$0, 0, 0, 0, \frac{6}{79}\sqrt{7}e^{12}, \frac{3}{79}\sqrt{86}e^{13}, \frac{6}{79}\sqrt{30}e^{23}, \frac{6}{79}\sqrt{17}e^{15}$	$(\frac{18}{79}, -\frac{15}{79}, \frac{6}{79}, -\frac{21}{79}, \frac{3}{79}, \frac{24}{79}, -\frac{9}{79}, \frac{21}{79})$ $+\frac{6}{79}\sqrt{46}e^3 \otimes e_4 + \frac{6}{79}\sqrt{58}e^1 \otimes e_7$	{1238, 1456, 24578, 367}
841:1	$0, 0, 0, 0, \frac{2}{115}\sqrt{209}e^{12}, \frac{1}{115}\sqrt{1558}e^{13}, \frac{2}{115}\sqrt{209}e^{23}, \frac{3}{115}\sqrt{266}e^{15}$	$(\frac{3}{230}, -\frac{8}{115}, \frac{33}{115}, -\frac{73}{230}, -\frac{13}{230}, \frac{3}{10}, \frac{5}{23}, -\frac{1}{23})$ $+\frac{1}{115}\sqrt{3838}e^1 \otimes e_4 + \frac{1}{115}\sqrt{3838}e^3 \otimes e_8$	{12678, 1357, 24578, 3467}
841:1	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{4}{19}\sqrt{6}e^{13}, \frac{1}{19}\sqrt{51}e^{23}, \frac{1}{19}\sqrt{39}e^{15}$	$(-\frac{10}{57}, \frac{4}{57}, \frac{11}{57}, \frac{28}{57}, -\frac{2}{19}, \frac{1}{57}, \frac{5}{19}, -\frac{16}{57})$ $+\frac{1}{19}\sqrt{129}e^4 \otimes e_6 + \frac{1}{19}\sqrt{174}e^3 \otimes e_8$	{12345, 168, 236, 458}
841:1	$0, 0, 0, 0, \frac{3}{751}\sqrt{11310}e^{12}, \frac{6}{751}\sqrt{2117}e^{13}, \frac{6}{751}\sqrt{290}e^{23}, \frac{42}{751}\sqrt{29}e^{15}$	$(\frac{1}{751}, \frac{186}{751}, -\frac{76}{751}, -\frac{260}{751}, \frac{187}{751}, -\frac{75}{751}, \frac{110}{751}, \frac{188}{751})$ $+\frac{30}{751}\sqrt{203}e^1 \otimes e_4 + \frac{3}{751}\sqrt{18038}e^2 \otimes e_6$	{1238, 156, 24578, 3467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:1	$0, 0, 0, 0, \frac{4}{831}\sqrt{834}e^{12}, \frac{1}{831}\sqrt{29190}e^{13}, \frac{2}{831}\sqrt{15707}e^{23}, \frac{22}{831}\sqrt{139}e^{15}$	$(\frac{80}{831}, -\frac{179}{831}, \frac{40}{277}, \frac{95}{831}, -\frac{33}{277}, \frac{200}{831}, -\frac{59}{831}, -\frac{19}{831})$ $+\frac{2}{831}\sqrt{24742}e^3 \otimes e_8 + \frac{2}{831}\sqrt{26410}e^1 \otimes e_7$	{24578, 2578, 3467, 367}
841:1	$0, 0, 0, 0, \frac{21}{209}\sqrt{10}e^{12}, \frac{7}{209}\sqrt{58}e^{13}, \frac{21}{209}\sqrt{10}e^{23}, \frac{56}{209}e^{15}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{49}{209}, \frac{25}{209}, \frac{2}{11}, -\frac{30}{209}, -\frac{30}{209}, \frac{3}{11})$ $+\frac{14}{209}\sqrt{42}e^2 \otimes e_6 + \frac{70}{209}\sqrt{2}e^1 \otimes e_7$	{12348, 1238, 1456, 156, 24578, 2578, 3467, 367}
841:1	$0, 0, 0, 0, \frac{21}{209}\sqrt{10}e^{12}, \frac{7}{209}\sqrt{58}e^{13}, \frac{21}{209}\sqrt{10}e^{23}, \frac{56}{209}e^{15}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{49}{209}, \frac{25}{209}, \frac{2}{11}, -\frac{30}{209}, -\frac{30}{209}, \frac{3}{11})$ $-\frac{14}{209}\sqrt{42}e^2 \otimes e_6 + \frac{70}{209}\sqrt{2}e^1 \otimes e_7$	{12348, 1238, 1456, 156, 24578, 2578, 3467, 367}
841:1	$0, 0, 0, 0, \frac{8}{443}\sqrt{190}e^{12}, \frac{2}{443}\sqrt{285}e^{13}, \frac{4}{443}\sqrt{3230}e^{23}, \frac{2}{443}\sqrt{8265}e^{15}$	$(-\frac{66}{443}, \frac{67}{443}, \frac{125}{443}, -\frac{123}{443}, \frac{1}{443}, \frac{59}{443}, \frac{192}{443}, -\frac{65}{443})$ $+\frac{2}{443}\sqrt{17005}e^2 \otimes e_4 + \frac{8}{443}\sqrt{1235}e^3 \otimes e_8$	{12678, 13457, 2578, 3467}
841:2	$0, 0, 0, 0, \frac{15}{149}\sqrt{6}e^{12}, \frac{10}{149}\sqrt{66}e^{13}, \frac{5}{149}\sqrt{78}e^{34}, \frac{5}{149}\sqrt{78}e^{15}$	$(\frac{35}{149}, -\frac{40}{149}, -\frac{40}{149}, \frac{70}{149}, -\frac{5}{149}, -\frac{5}{149}, \frac{30}{149}, \frac{30}{149})$ $+\frac{30}{149}\sqrt{11}e^1 \otimes e_2 + \frac{30}{149}\sqrt{11}e^4 \otimes e_6$	{1348, 168, 2367, 247}
841:2	$0, 0, 0, 0, \frac{2}{85}\sqrt{429}e^{12}, \frac{2}{85}\sqrt{759}e^{13}, \frac{12}{85}\sqrt{33}e^{34}, \frac{12}{85}\sqrt{33}e^{15}$	$(-\frac{2}{17}, \frac{3}{85}, \frac{3}{85}, \frac{49}{85}, -\frac{7}{85}, -\frac{7}{85}, \frac{52}{85}, -\frac{1}{5})$ $+\frac{6}{85}\sqrt{253}e^4 \otimes e_8$	{123678, 128, 13456, 1457, 23578, 2568, 34, 467}
841:2	$0, 0, 0, 0, \frac{2}{137}\sqrt{165}e^{12}, \frac{2}{137}\sqrt{95}e^{13}, \frac{4}{137}\sqrt{65}e^{34}, \frac{4}{137}\sqrt{65}e^{15}$	$(\frac{14}{137}, -\frac{17}{137}, -\frac{17}{137}, \frac{21}{137}, -\frac{3}{137}, -\frac{3}{137}, \frac{4}{137}, \frac{11}{137})$ $+\frac{16}{137}\sqrt{5}e^1 \otimes e_7 + \frac{2}{137}\sqrt{285}e^4 \otimes e_8$	{128, 13456, 23578, 467}
841:2	$0, 0, 0, 0, \frac{120}{1349}\sqrt{19}e^{12}, \frac{30}{1349}\sqrt{115}e^{13}, \frac{60}{1349}\sqrt{122}e^{34}, \frac{30}{1349}\sqrt{281}e^{15}$	$(-\frac{294}{1349}, \frac{493}{1349}, \frac{5}{19}, -\frac{312}{1349}, \frac{199}{1349}, \frac{61}{1349}, \frac{43}{1349}, -\frac{5}{71})$ $+\frac{60}{1349}\sqrt{138}e^3 \otimes e_8 + \frac{90}{1349}\sqrt{69}e^2 \otimes e_7$	{128, 13567, 2568, 37}
841:2	$0, 0, 0, 0, \frac{2}{823}\sqrt{3990}e^{12}, \frac{2}{823}\sqrt{25365}e^{13}, \frac{5}{823}\sqrt{4902}e^{34}, \frac{6}{823}\sqrt{1615}e^{15}$	$(-\frac{158}{823}, \frac{122}{823}, \frac{91}{823}, \frac{218}{823}, -\frac{36}{823}, -\frac{67}{823}, \frac{309}{823}, -\frac{194}{823})$ $+\frac{30}{823}\sqrt{247}e^3 \otimes e_8 + \frac{3}{823}\sqrt{21470}e^4 \otimes e_6$	{12345, 168, 2367, 4578}
841:2	$0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{12}, \frac{1}{4}\sqrt{6}e^{13}, \frac{1}{8}\sqrt{6}e^{34}, \frac{1}{4}e^{15}$	$(\frac{7}{32}, -\frac{9}{32}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{16}, \frac{15}{32}, 0, \frac{5}{32})$ $+\frac{1}{4}\sqrt{7}e^3 \otimes e_4 + \frac{1}{8}\sqrt{30}e^1 \otimes e_2$	{138, 1468, 236, 24}
841:2	$0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{115}e^{13}, \frac{4}{83}\sqrt{115}e^{34}, \frac{4}{83}\sqrt{115}e^{15}$	$(-\frac{18}{83}, \frac{25}{83}, -\frac{3}{83}, \frac{35}{83}, \frac{7}{83}, -\frac{21}{83}, \frac{32}{83}, -\frac{11}{83})$ $+\frac{2}{83}\sqrt{989}e^4 \otimes e_8 + \frac{4}{83}\sqrt{161}e^2 \otimes e_6$	{128, 13456, 23578, 467}
841:2	$0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{3}{41}\sqrt{110}e^{13}, \frac{30}{41}e^{34}, \frac{3}{41}\sqrt{10}e^{15}$	$(-\frac{1}{41}, \frac{9}{41}, -\frac{13}{41}, \frac{31}{41}, \frac{8}{41}, -\frac{14}{41}, \frac{18}{41}, \frac{7}{41})$ $+\frac{3}{41}\sqrt{330}e^4 \otimes e_6$	{123458, 12568, 134, 16, 23678, 2478, 3567, 457}
841:2	$0, 0, 0, 0, \frac{30}{41}e^{12}, \frac{3}{41}\sqrt{110}e^{13}, \frac{3}{41}\sqrt{10}e^{34}, \frac{3}{41}\sqrt{10}e^{15}$	$(-\frac{12}{41}, \frac{31}{41}, -\frac{2}{41}, \frac{9}{41}, \frac{19}{41}, -\frac{14}{41}, \frac{7}{41}, \frac{7}{41})$ $+\frac{3}{41}\sqrt{330}e^2 \otimes e_6$	{123, 12347, 14568, 15678, 245, 257, 34678, 368}
841:2	$0, 0, 0, 0, \frac{2}{289}\sqrt{754}e^{12}, \frac{1}{289}\sqrt{1102}e^{13}, \frac{6}{289}\sqrt{145}e^{34}, \frac{6}{289}\sqrt{145}e^{15}$	$(\frac{14}{289}, -\frac{1}{17}, \frac{40}{289}, -\frac{55}{289}, -\frac{3}{289}, \frac{54}{289}, -\frac{15}{289}, \frac{11}{289})$ $+\frac{2}{289}\sqrt{1653}e^3 \otimes e_8 + \frac{2}{289}\sqrt{2030}e^1 \otimes e_7$	{1268, 1345, 24578, 367}
841:2	$0, 0, 0, 0, \frac{12}{85}\sqrt{33}e^{12}, \frac{2}{85}\sqrt{759}e^{13}, \frac{12}{85}\sqrt{33}e^{34}, \frac{2}{85}\sqrt{429}e^{15}$	$(-\frac{2}{17}, \frac{49}{85}, \frac{3}{85}, -\frac{4}{17}, \frac{39}{85}, -\frac{7}{85}, -\frac{1}{5}, \frac{29}{85})$ $+\frac{6}{85}\sqrt{253}e^2 \otimes e_7$	{123468, 128, 13567, 1457, 23458, 2568, 37, 467}
841:2	$0, 0, 0, 0, \frac{3}{643}\sqrt{2294}e^{12}, \frac{3}{643}\sqrt{1798}e^{13}, \frac{3}{643}\sqrt{8990}e^{34}, \frac{24}{643}\sqrt{217}e^{15}$	$(\frac{87}{643}, -\frac{192}{643}, -\frac{34}{643}, \frac{261}{643}, -\frac{105}{643}, \frac{53}{643}, \frac{227}{643}, -\frac{18}{643})$ $+\frac{3}{643}\sqrt{14694}e^1 \otimes e_2 + \frac{54}{643}\sqrt{62}e^4 \otimes e_8$	{13456, 1457, 23578, 2568}
841:2	$0, 0, 0, 0, \frac{3}{643}\sqrt{8990}e^{12}, \frac{3}{643}\sqrt{1798}e^{13}, \frac{24}{643}\sqrt{217}e^{34}, \frac{3}{643}\sqrt{2294}e^{15}$	$(-\frac{71}{643}, \frac{261}{643}, -\frac{113}{643}, \frac{95}{643}, \frac{190}{643}, -\frac{184}{643}, -\frac{18}{643}, \frac{119}{643})$ $+\frac{3}{643}\sqrt{14694}e^4 \otimes e_6 + \frac{54}{643}\sqrt{62}e^2 \otimes e_7$	{13567, 1457, 23458, 2568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:2	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}\sqrt{6}e^{13}, \frac{1}{8}\sqrt{6}e^{34}, \frac{1}{8}\sqrt{6}e^{15}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, 0, 0, 0)$ $+\frac{1}{4}\sqrt{7}e^3 \otimes e_4 + \frac{1}{8}\sqrt{30}e^2 \otimes e_6$	{123, 14568, 245, 368}
841:2	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{6}{19}\sqrt{2}e^{13}, \frac{3}{19}\sqrt{5}e^{34}, \frac{3}{19}\sqrt{5}e^{15}$	$(-\frac{6}{19}, \frac{8}{19}, \frac{5}{19}, 0, \frac{2}{19}, -\frac{1}{19}, \frac{5}{19}, -\frac{4}{19})$ $+\frac{3}{19}\sqrt{15}e^2 \otimes e_6 + \frac{9}{19}\sqrt{2}e^3 \otimes e_8$	{24578, 258, 346, 367}
841:2	$0, 0, 0, 0, \frac{2}{17}\sqrt{14}e^{12}, \frac{7}{17}\sqrt{6}e^{13}, \frac{2}{17}\sqrt{14}e^{34}, \frac{2}{17}\sqrt{14}e^{15}$	$(-\frac{4}{51}, \frac{13}{51}, \frac{2}{3}, -\frac{29}{51}, \frac{3}{17}, \frac{10}{17}, \frac{5}{51}, \frac{5}{51})$ $+\frac{14}{17}\sqrt{3}e^3 \otimes e_4$	{12358, 124568, 13, 146, 2368, 248, 356, 45}
841:2	$0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{3}{41}\sqrt{110}e^{13}, \frac{3}{41}\sqrt{10}e^{34}, \frac{30}{41}e^{15}$	$(\frac{21}{41}, -\frac{24}{41}, -\frac{2}{41}, \frac{9}{41}, -\frac{3}{41}, \frac{19}{41}, \frac{7}{41}, \frac{18}{41})$ $+\frac{3}{41}\sqrt{330}e^1 \otimes e_2$	{13478, 138, 1468, 1678, 23467, 236, 24, 27}
841:2	$0, 0, 0, 0, \frac{1}{61}\sqrt{374}e^{12}, \frac{1}{61}\sqrt{238}e^{13}, \frac{6}{61}\sqrt{17}e^{34}, \frac{1}{61}\sqrt{374}e^{15}$	$(\frac{11}{61}, -\frac{3}{61}, -\frac{17}{61}, \frac{11}{61}, \frac{8}{61}, -\frac{6}{61}, -\frac{6}{61}, \frac{19}{61})$ $+\frac{1}{61}\sqrt{714}e^4 \otimes e_6 + \frac{8}{61}\sqrt{17}e^1 \otimes e_7$	{12348, 1268, 1345, 156, 235678, 24578, 367, 47}
841:2	$0, 0, 0, 0, \frac{1}{61}\sqrt{374}e^{12}, \frac{1}{61}\sqrt{238}e^{13}, \frac{6}{61}\sqrt{17}e^{34}, \frac{1}{61}\sqrt{374}e^{15}$	$(\frac{11}{61}, -\frac{3}{61}, -\frac{17}{61}, \frac{11}{61}, \frac{8}{61}, -\frac{6}{61}, -\frac{6}{61}, \frac{19}{61})$ $-\frac{1}{61}\sqrt{714}e^4 \otimes e_6 + \frac{8}{61}\sqrt{17}e^1 \otimes e_7$	{12348, 1268, 1345, 156, 235678, 24578, 367, 47}
841:2	$0, 0, 0, 0, \frac{2}{823}\sqrt{3990}e^{12}, \frac{2}{823}\sqrt{25365}e^{13}, \frac{6}{823}\sqrt{1615}e^{34}, \frac{5}{823}\sqrt{4902}e^{15}$	$(\frac{68}{823}, -\frac{217}{823}, \frac{204}{823}, -\frac{8}{823}, -\frac{149}{823}, \frac{272}{823}, \frac{196}{823}, -\frac{81}{823})$ $+\frac{30}{823}\sqrt{247}e^3 \otimes e_8 + \frac{3}{823}\sqrt{21470}e^1 \otimes e_2$	{14678, 168, 2346, 2367}
841:2	$0, 0, 0, 0, \frac{4}{293}\sqrt{1679}e^{12}, \frac{8}{293}\sqrt{69}e^{13}, \frac{4}{293}\sqrt{1679}e^{34}, \frac{12}{293}\sqrt{46}e^{15}$	$(-\frac{37}{293}, \frac{134}{293}, \frac{67}{293}, -\frac{117}{293}, \frac{97}{293}, \frac{30}{293}, -\frac{50}{293}, \frac{60}{293})$ $+\frac{4}{293}\sqrt{1978}e^3 \otimes e_4 + \frac{4}{293}\sqrt{3795}e^2 \otimes e_7$	{13567, 1457, 37, 467}
841:2	$0, 0, 0, 0, \frac{6}{173}\sqrt{34}e^{12}, \frac{3}{173}\sqrt{782}e^{13}, \frac{30}{173}\sqrt{17}e^{34}, \frac{30}{173}\sqrt{17}e^{15}$	$(-\frac{42}{173}, \frac{31}{173}, \frac{100}{173}, -\frac{15}{173}, -\frac{11}{173}, \frac{58}{173}, \frac{85}{173}, -\frac{53}{173})$ $+\frac{6}{173}\sqrt{1173}e^3 \otimes e_8$	{124678, 1268, 1345, 1357, 24578, 258, 346, 367}
841:2	$0, 0, 0, 0, \frac{6}{155}\sqrt{66}e^{12}, \frac{6}{155}\sqrt{69}e^{13}, \frac{3}{155}\sqrt{402}e^{34}, \frac{6}{155}\sqrt{66}e^{15}$	$(-\frac{5}{31}, \frac{42}{155}, -\frac{4}{155}, \frac{19}{155}, \frac{17}{155}, -\frac{29}{155}, \frac{3}{31}, -\frac{8}{155})$ $+\frac{9}{155}\sqrt{46}e^2 \otimes e_7 + \frac{9}{155}\sqrt{46}e^4 \otimes e_8$	{128, 1457, 2568, 467}
841:2	$0, 0, 0, 0, \frac{6}{61}\sqrt{17}e^{12}, \frac{1}{61}\sqrt{238}e^{13}, \frac{1}{61}\sqrt{374}e^{34}, \frac{1}{61}\sqrt{374}e^{15}$	$(\frac{4}{61}, \frac{11}{61}, -\frac{10}{61}, -\frac{3}{61}, \frac{15}{61}, -\frac{6}{61}, -\frac{13}{61}, \frac{19}{61})$ $+\frac{1}{61}\sqrt{714}e^2 \otimes e_6 + \frac{8}{61}\sqrt{17}e^1 \otimes e_7$	{12348, 156, 24578, 367}
841:2	$0, 0, 0, 0, \frac{2}{7}\sqrt{2}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{2}{7}\sqrt{2}e^{34}, \frac{2}{7}\sqrt{2}e^{15}$	$(\frac{4}{21}, -\frac{1}{21}, \frac{2}{21}, -\frac{1}{3}, \frac{1}{7}, \frac{2}{7}, -\frac{5}{21}, \frac{1}{3})$ $+\frac{2}{7}\sqrt{3}e^3 \otimes e_4 + \frac{2}{7}\sqrt{6}e^1 \otimes e_7$	{235678, 24578, 367, 47}
841:3	$0, 0, 0, 0, \frac{5}{269}\sqrt{318}e^{12}, \frac{5}{807}\sqrt{1590}e^{13}, \frac{20}{807}\sqrt{159}e^{34}, \frac{1}{807}\sqrt{142570}e^{25}$	$(-\frac{34}{269}, \frac{76}{807}, -\frac{29}{269}, \frac{105}{269}, -\frac{26}{807}, -\frac{63}{269}, \frac{76}{269}, \frac{50}{807})$ $+\frac{1}{807}\sqrt{173310}e^4 \otimes e_8 + \frac{2}{807}\sqrt{49290}e^2 \otimes e_6$	{12378, 1568, 2457, 346}
841:3	$0, 0, 0, 0, \frac{7}{597}\sqrt{1254}e^{12}, \frac{7}{597}\sqrt{1122}e^{13}, \frac{28}{199}\sqrt{33}e^{34}, \frac{7}{597}\sqrt{4378}e^{25}$	$(\frac{38}{199}, -\frac{136}{597}, -\frac{15}{199}, \frac{127}{199}, -\frac{22}{597}, \frac{23}{199}, \frac{112}{199}, -\frac{158}{597})$ $+\frac{7}{199}\sqrt{1166}e^4 \otimes e_8$	{123678, 128, 135678, 158, 2345, 24567, 34, 467}
841:3	$0, 0, 0, 0, \frac{1}{185}\sqrt{5038}e^{12}, \frac{1}{185}\sqrt{31602}e^{13}, \frac{1}{185}\sqrt{5038}e^{34}, \frac{2}{185}\sqrt{1374}e^{25}$	$(-\frac{22}{185}, \frac{7}{37}, \frac{127}{185}, -\frac{102}{185}, \frac{13}{21}, \frac{37}{37}, \frac{5}{185}, \frac{48}{185})$ $+\frac{1}{185}\sqrt{68242}e^3 \otimes e_4$	{1235, 12456, 13, 146, 2368, 248, 3568, 458}
841:3	$0, 0, 0, 0, \frac{4}{123}\sqrt{33}e^{12}, \frac{22}{123}\sqrt{3}e^{13}, \frac{4}{123}\sqrt{33}e^{34}, \frac{2}{123}\sqrt{451}e^{25}$	$(-\frac{10}{41}, \frac{16}{123}, \frac{8}{41}, \frac{1}{41}, -\frac{14}{123}, -\frac{2}{41}, \frac{9}{41}, \frac{2}{123})$ $+\frac{2}{41}\sqrt{66}e^2 \otimes e_6 + \frac{2}{41}\sqrt{66}e^3 \otimes e_8$	{145678, 1568, 346, 367}
841:3	$0, 0, 0, 0, \frac{15}{913}\sqrt{482}e^{12}, \frac{30}{913}\sqrt{95}e^{13}, \frac{30}{913}\sqrt{51}e^{34}, \frac{30}{913}\sqrt{89}e^{25}$	$(\frac{65}{913}, \frac{115}{913}, -\frac{175}{913}, \frac{15}{913}, \frac{180}{913}, -\frac{10}{83}, -\frac{160}{913}, \frac{295}{913})$ $+\frac{15}{913}\sqrt{758}e^1 \otimes e_7 + \frac{15}{913}\sqrt{834}e^2 \otimes e_6$	{12348, 1568, 2457, 367}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:3	$0, 0, 0, 0, \frac{2}{197}\sqrt{265}e^{12}, \frac{53}{197}\sqrt{2}e^{13}, \frac{4}{197}\sqrt{318}e^{34}, \frac{4}{197}\sqrt{265}e^{25}$	$(-\frac{20}{197}, -\frac{7}{197}, \frac{19}{197}, \frac{52}{197}, -\frac{27}{197}, -\frac{1}{197}, \frac{71}{197}, -\frac{34}{197})$ $+\frac{1}{197}\sqrt{10282}e^3 \otimes e_8 + \frac{1}{197}\sqrt{8162}e^4 \otimes e_6$	{12345, 134, 2478, 4578}
841:3	$0, 0, 0, 0, \frac{1}{711}\sqrt{76382}e^{12}, \frac{2}{711}\sqrt{4431}e^{13}, \frac{1}{711}\sqrt{105922}e^{34}, \frac{1}{711}\sqrt{70474}e^{25}$	$(-\frac{43}{711}, \frac{17}{79}, -\frac{113}{711}, \frac{55}{711}, \frac{110}{711}, -\frac{52}{237}, -\frac{58}{711}, \frac{263}{711})$ $+\frac{1}{79}\sqrt{2110}e^2 \otimes e_7 + \frac{2}{711}\sqrt{22155}e^4 \otimes e_6$	{135678, 14578, 2345, 256}
841:3	$0, 0, 0, 0, \frac{2}{117}\sqrt{127}e^{12}, \frac{2}{117}\sqrt{1905}e^{13}, \frac{1}{117}\sqrt{7366}e^{34}, \frac{4}{117}\sqrt{127}e^{25}$	$(-\frac{4}{117}, \frac{2}{13}, -\frac{35}{117}, \frac{88}{117}, \frac{14}{117}, -\frac{1}{3}, \frac{53}{117}, \frac{32}{117})$ $+\frac{1}{117}\sqrt{23622}e^4 \otimes e_6$	{12345, 1256, 134, 16, 23678, 2478, 35678, 4578}
841:3	$0, 0, 0, 0, \frac{1}{277}\sqrt{9590}e^{12}, \frac{1}{277}\sqrt{18906}e^{13}, \frac{1}{277}\sqrt{9590}e^{34}, \frac{2}{277}\sqrt{822}e^{25}$	$(\frac{70}{277}, -\frac{11}{277}, \frac{35}{277}, -\frac{102}{277}, \frac{59}{277}, \frac{105}{277}, -\frac{67}{277}, \frac{48}{277})$ $+\frac{1}{277}\sqrt{28222}e^3 \otimes e_4 + \frac{2}{277}\sqrt{9453}e^1 \otimes e_7$	{23567, 2457, 367, 47}
841:3	$0, 0, 0, 0, \frac{8}{541}\sqrt{209}e^{12}, \frac{16}{1623}\sqrt{33}e^{13}, \frac{4}{541}\sqrt{1342}e^{34}, \frac{4}{1623}\sqrt{11902}e^{25}$	$(-\frac{40}{541}, \frac{119}{1623}, \frac{98}{541}, -\frac{117}{541}, -\frac{1}{1623}, \frac{58}{541}, -\frac{19}{541}, \frac{118}{1623})$ $+\frac{4}{541}\sqrt{1518}e^3 \otimes e_8 + \frac{8}{1623}\sqrt{4422}e^2 \otimes e_7$	{128, 14578, 2345, 37}
841:3	$0, 0, 0, 0, \frac{20}{329}\sqrt{74}e^{12}, \frac{4}{329}\sqrt{555}e^{13}, \frac{20}{329}\sqrt{74}e^{34}, \frac{12}{329}\sqrt{185}e^{25}$	$(-\frac{19}{329}, \frac{80}{329}, \frac{40}{329}, -\frac{108}{329}, \frac{61}{329}, \frac{3}{47}, -\frac{68}{329}, \frac{3}{7})$ $+\frac{2}{329}\sqrt{16206}e^2 \otimes e_7 + \frac{2}{329}\sqrt{4366}e^3 \otimes e_4$	{135678, 14578, 37, 467}
841:3	$0, 0, 0, 0, \frac{8}{1965}\sqrt{1023}e^{12}, \frac{2}{1965}\sqrt{11346}e^{13}, \frac{2}{1965}\sqrt{24087}e^{34}, \frac{2}{1965}\sqrt{20305}e^{25}$	$(\frac{3}{131}, \frac{7}{393}, -\frac{68}{655}, \frac{59}{655}, \frac{16}{393}, -\frac{53}{655}, -\frac{9}{655}, \frac{23}{393})$ $+\frac{2}{1965}\sqrt{31341}e^2 \otimes e_7 + \frac{2}{655}\sqrt{2573}e^4 \otimes e_8$	{128, 135678, 2345, 467}
841:3	$0, 0, 0, 0, \frac{4}{1727}\sqrt{15910}e^{12}, \frac{16}{1727}\sqrt{2967}e^{13}, \frac{8}{1727}\sqrt{2451}e^{34}, \frac{12}{1727}\sqrt{3526}e^{25}$	$(-\frac{527}{1727}, \frac{553}{1727}, \frac{392}{1727}, -\frac{296}{1727}, \frac{26}{1727}, -\frac{135}{1727}, \frac{96}{1727}, \frac{579}{1727})$ $+\frac{4}{1727}\sqrt{77142}e^2 \otimes e_6 + \frac{8}{1727}\sqrt{13330}e^3 \otimes e_4$	{1238, 14568, 245, 36}
841:3	$0, 0, 0, 0, \frac{30}{913}\sqrt{51}e^{12}, \frac{30}{913}\sqrt{95}e^{13}, \frac{15}{913}\sqrt{482}e^{34}, \frac{30}{913}\sqrt{89}e^{25}$	$(\frac{204}{913}, -\frac{163}{913}, \frac{103}{913}, -\frac{124}{913}, \frac{41}{913}, \frac{307}{913}, -\frac{21}{913}, -\frac{122}{913})$ $+\frac{15}{913}\sqrt{758}e^1 \otimes e_7 + \frac{15}{913}\sqrt{834}e^3 \otimes e_8$	{1268, 1568, 23567, 367}
841:3	$0, 0, 0, 0, \frac{4}{61}\sqrt{21}e^{12}, \frac{7}{122}\sqrt{42}e^{13}, \frac{1}{122}\sqrt{2730}e^{34}, \frac{1}{61}\sqrt{105}e^{25}$	$(\frac{16}{61}, -\frac{3}{61}, -\frac{21}{61}, \frac{16}{61}, \frac{13}{61}, -\frac{5}{61}, -\frac{5}{61}, \frac{10}{61})$ $+\frac{1}{122}\sqrt{4830}e^1 \otimes e_7 + \frac{3}{122}\sqrt{462}e^4 \otimes e_6$	{12348, 1268, 13458, 1568, 23567, 2457, 367, 47}
841:3	$0, 0, 0, 0, \frac{4}{61}\sqrt{21}e^{12}, \frac{7}{122}\sqrt{42}e^{13}, \frac{1}{122}\sqrt{2730}e^{34}, \frac{1}{61}\sqrt{105}e^{25}$	$(\frac{16}{61}, -\frac{3}{61}, -\frac{21}{61}, \frac{16}{61}, \frac{13}{61}, -\frac{5}{61}, -\frac{5}{61}, \frac{10}{61})$ $+\frac{1}{122}\sqrt{4830}e^1 \otimes e_7 - \frac{3}{122}\sqrt{462}e^4 \otimes e_6$	{12348, 1268, 13458, 1568, 23567, 2457, 367, 47}
841:3	$0, 0, 0, 0, \frac{20}{303}\sqrt{87}e^{12}, \frac{4}{303}\sqrt{2262}e^{13}, \frac{4}{303}\sqrt{174}e^{34}, \frac{4}{303}\sqrt{2929}e^{25}$	$(-\frac{31}{101}, \frac{127}{303}, -\frac{4}{101}, \frac{22}{101}, \frac{34}{303}, -\frac{35}{101}, \frac{18}{101}, \frac{161}{303})$ $+\frac{12}{101}\sqrt{87}e^2 \otimes e_6$	{123478, 1238, 14568, 15678, 245, 257, 3467, 36}
841:3	$0, 0, 0, 0, \frac{3}{67}\sqrt{202}e^{12}, \frac{2}{201}\sqrt{2121}e^{13}, \frac{3}{67}\sqrt{202}e^{34}, \frac{1}{201}\sqrt{13534}e^{25}$	$(-\frac{1}{67}, \frac{53}{201}, -\frac{1}{67}, -\frac{15}{67}, \frac{50}{201}, -\frac{2}{67}, -\frac{16}{67}, \frac{103}{201})$ $+\frac{1}{201}\sqrt{33330}e^2 \otimes e_7$	{123468, 128, 135678, 14578, 2345, 256, 37, 467}
841:3	$0, 0, 0, 0, \frac{2}{203}\sqrt{5133}e^{12}, \frac{1}{203}\sqrt{10266}e^{13}, \frac{2}{203}\sqrt{5133}e^{34}, \frac{2}{203}\sqrt{1239}e^{25}$	$(\frac{4}{7}, -\frac{30}{203}, -\frac{45}{203}, -\frac{16}{203}, \frac{86}{203}, \frac{71}{203}, -\frac{61}{203}, \frac{8}{29})$ $+\frac{1}{203}\sqrt{56994}e^1 \otimes e_7$	{12348, 1268, 13458, 1568, 23567, 2457, 367, 47}
841:3	$0, 0, 0, 0, \frac{20}{1739}\sqrt{957}e^{12}, \frac{20}{1739}\sqrt{105}e^{13}, \frac{40}{1739}\sqrt{426}e^{34}, \frac{20}{1739}\sqrt{978}e^{25}$	$(\frac{638}{1739}, -\frac{414}{1739}, -\frac{372}{1739}, \frac{410}{1739}, \frac{224}{1739}, \frac{266}{1739}, \frac{38}{1739}, -\frac{190}{1739})$ $+\frac{20}{1739}\sqrt{2283}e^1 \otimes e_7 + \frac{60}{1739}\sqrt{249}e^4 \otimes e_8$	{1268, 1568, 2457, 47}
841:3	$0, 0, 0, 0, \frac{4}{303}\sqrt{174}e^{12}, \frac{4}{303}\sqrt{2262}e^{13}, \frac{20}{303}\sqrt{87}e^{34}, \frac{4}{303}\sqrt{2929}e^{25}$	$(-\frac{4}{101}, -\frac{35}{303}, \frac{50}{101}, -\frac{5}{101}, -\frac{47}{303}, \frac{46}{101}, \frac{45}{101}, -\frac{82}{303})$ $+\frac{12}{101}\sqrt{87}e^3 \otimes e_8$	{12345, 12357, 134, 137, 2478, 28, 4578, 58}
841:4	$0, 0, 0, 0, \frac{16}{73}\sqrt{6}e^{12}, \frac{8}{73}\sqrt{2}e^{13}, \frac{8}{73}\sqrt{3}e^{14}, \frac{8}{73}\sqrt{15}e^{15}$	$(\frac{6}{73}, \frac{12}{73}, -\frac{26}{73}, \frac{6}{73}, \frac{18}{73}, -\frac{20}{73}, \frac{12}{73}, \frac{24}{73})$ $+\frac{24}{73}\sqrt{3}e^2 \otimes e_6 + \frac{8}{73}\sqrt{37}e^1 \otimes e_3$	{1248, 1278, 234578, 2358}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:4	$0, 0, 0, 0, \frac{3}{41}\sqrt{30}e^{12}, \frac{6}{41}\sqrt{5}e^{13}, \frac{1}{41}\sqrt{190}e^{14}, \frac{4}{41}\sqrt{10}e^{15}$	$(\frac{5}{82}, \frac{7}{41}, -\frac{15}{82}, -\frac{11}{82}, \frac{19}{82}, -\frac{5}{41}, -\frac{3}{41}, \frac{12}{41})$ $+ \frac{1}{41}\sqrt{330}e^2 \otimes e_7 + \frac{1}{41}\sqrt{410}e^1 \otimes e_3$	{1248, 157, 2358, 347}
841:4	$0, 0, 0, 0, \frac{2}{115}\sqrt{565}e^{12}, \frac{2}{115}\sqrt{1469}e^{13}, \frac{2}{115}\sqrt{1469}e^{14}, \frac{1}{115}\sqrt{4746}e^{15}$	$(\frac{52}{115}, -\frac{61}{115}, -\frac{4}{115}, -\frac{4}{115}, -\frac{9}{115}, \frac{48}{115}, \frac{48}{115}, \frac{43}{115})$ $+ \frac{1}{115}\sqrt{21018}e^1 \otimes e_2$	{1348, 1378, 1678, 2, 23467, 236}
841:4	$0, 0, 0, 0, \frac{2}{17}\sqrt{39}e^{12}, \frac{2}{17}\sqrt{26}e^{13}, \frac{1}{17}\sqrt{78}e^{14}, \frac{2}{17}\sqrt{39}e^{15}$	$(\frac{6}{17}, -\frac{3}{17}, -\frac{7}{17}, 0, \frac{3}{17}, -\frac{1}{17}, \frac{6}{17}, \frac{9}{17})$ $+ \frac{2}{17}\sqrt{91}e^1 \otimes e_3$	{1248, 1278, 145, 157, 234578, 2358, 3, 347}
841:4	$0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{14}\sqrt{21}e^{13}, \frac{3}{14}\sqrt{7}e^{14}, \frac{1}{14}\sqrt{7}e^{15}$	$(-\frac{1}{4}, \frac{3}{14}, \frac{13}{28}, \frac{3}{14}, -\frac{1}{28}, \frac{3}{14}, -\frac{1}{28}, -\frac{2}{7})$ $+ \frac{1}{14}\sqrt{91}e^3 \otimes e_7 + \frac{1}{7}\sqrt{21}e^4 \otimes e_8$	{12345, 1678, 247, 3568}
841:4	$0, 0, 0, 0, \frac{4}{141}\sqrt{230}e^{12}, \frac{4}{141}\sqrt{115}e^{13}, \frac{4}{141}\sqrt{115}e^{14}, \frac{4}{141}\sqrt{230}e^{15}$	$(-\frac{41}{141}, \frac{20}{47}, \frac{70}{141}, \frac{3}{47}, \frac{19}{141}, \frac{29}{47}, -\frac{32}{141}, -\frac{22}{141})$ $+ \frac{2}{141}\sqrt{2806}e^2 \otimes e_7 + \frac{2}{141}\sqrt{2806}e^3 \otimes e_8$	{12468, 1357, 258, 3467}
841:4	$0, 0, 0, 0, \frac{4}{41}\sqrt{10}e^{12}, \frac{1}{41}\sqrt{190}e^{13}, \frac{6}{41}\sqrt{5}e^{14}, \frac{3}{41}\sqrt{30}e^{15}$	$(\frac{5}{82}, -\frac{4}{41}, \frac{11}{41}, -\frac{15}{82}, -\frac{3}{82}, \frac{27}{82}, -\frac{5}{41}, \frac{1}{41})$ $+ \frac{1}{41}\sqrt{330}e^3 \otimes e_8 + \frac{1}{41}\sqrt{410}e^1 \otimes e_4$	{1268, 135, 2458, 346}
841:4	$0, 0, 0, 0, \frac{1}{14}\sqrt{7}e^{12}, \frac{3}{14}\sqrt{7}e^{13}, \frac{1}{14}\sqrt{21}e^{14}, \frac{1}{14}\sqrt{21}e^{15}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, 0, \frac{1}{4}, 0, -\frac{1}{4}, 0)$ $+ \frac{1}{14}\sqrt{91}e^3 \otimes e_7 + \frac{1}{7}\sqrt{21}e^2 \otimes e_6$	{1234, 15678, 2457, 368}
841:4	$0, 0, 0, 0, \frac{1}{60}\sqrt{390}e^{12}, \frac{1}{120}\sqrt{2769}e^{13}, \frac{1}{120}\sqrt{2769}e^{14}, \frac{1}{60}\sqrt{39}e^{15}$	$(\frac{2}{15}, -\frac{23}{120}, \frac{61}{240}, -\frac{49}{240}, -\frac{7}{120}, \frac{31}{80}, -\frac{17}{240}, \frac{3}{40})$ $+ \frac{1}{120}\sqrt{4290}e^3 \otimes e_7 + \frac{3}{20}\sqrt{13}e^1 \otimes e_2$	{134, 167, 2368, 2478}
841:4	$0, 0, 0, 0, \frac{16}{451}\sqrt{479}e^{12}, \frac{5}{451}\sqrt{4790}e^{13}, \frac{2}{451}\sqrt{13891}e^{14}, \frac{2}{451}\sqrt{1437}e^{15}$	$(-\frac{116}{451}, \frac{323}{451}, -\frac{40}{451}, \frac{13}{41}, \frac{207}{451}, -\frac{156}{451}, \frac{27}{451}, \frac{91}{451})$ $+ \frac{2}{451}\sqrt{87657}e^2 \otimes e_6$	{123478, 1238, 14567, 156, 2458, 2578, 346, 367}
841:4	$0, 0, 0, 0, \frac{2}{147}\sqrt{277}e^{12}, \frac{2}{735}\sqrt{26869}e^{13}, \frac{2}{735}\sqrt{4709}e^{14}, \frac{13}{735}\sqrt{554}e^{15}$	$(\frac{68}{735}, -\frac{209}{735}, \frac{68}{245}, \frac{44}{735}, -\frac{47}{245}, \frac{272}{735}, \frac{16}{105}, -\frac{73}{735})$ $+ \frac{1}{735}\sqrt{186698}e^1 \otimes e_2 + \frac{8}{735}\sqrt{2770}e^3 \otimes e_8$	{1468, 1678, 23467, 236}
841:4	$0, 0, 0, 0, \frac{3}{137}\sqrt{266}e^{12}, \frac{12}{137}\sqrt{35}e^{13}, \frac{21}{137}\sqrt{6}e^{14}, \frac{3}{137}\sqrt{266}e^{15}$	$(-\frac{42}{137}, \frac{57}{137}, \frac{36}{137}, \frac{36}{137}, \frac{15}{137}, -\frac{6}{137}, -\frac{6}{137}, -\frac{27}{137})$ $+ \frac{3}{137}\sqrt{854}e^2 \otimes e_6 + \frac{3}{137}\sqrt{854}e^3 \otimes e_8$	{2458, 2578, 346, 367}
841:4	$0, 0, 0, 0, \frac{2}{451}\sqrt{1437}e^{12}, \frac{5}{451}\sqrt{4790}e^{13}, \frac{2}{451}\sqrt{13891}e^{14}, \frac{16}{451}\sqrt{479}e^{15}$	$(-\frac{116}{451}, \frac{79}{451}, \frac{326}{451}, \frac{13}{41}, -\frac{37}{451}, \frac{210}{451}, \frac{27}{451}, -\frac{153}{451})$ $+ \frac{2}{451}\sqrt{87657}e^3 \otimes e_8$	{124678, 1268, 13457, 135, 2458, 2578, 346, 367}
841:4	$0, 0, 0, 0, \frac{7}{32}\sqrt{2}e^{12}, \frac{1}{32}\sqrt{161}e^{13}, \frac{1}{32}\sqrt{161}e^{14}, \frac{7}{32}\sqrt{2}e^{15}$	$(-\frac{7}{32}, \frac{9}{32}, \frac{11}{64}, \frac{11}{64}, \frac{1}{16}, -\frac{3}{64}, -\frac{3}{64}, -\frac{5}{32})$ $+ \frac{1}{32}\sqrt{210}e^3 \otimes e_7 - \frac{1}{32}\sqrt{210}e^4 \otimes e_6$	{123458, 125678, 134, 167, 2368, 356}
841:4	$0, 0, 0, 0, \frac{7}{32}\sqrt{2}e^{12}, \frac{1}{32}\sqrt{161}e^{13}, \frac{1}{32}\sqrt{161}e^{14}, \frac{7}{32}\sqrt{2}e^{15}$	$(-\frac{7}{32}, \frac{9}{32}, \frac{11}{64}, \frac{11}{64}, \frac{1}{16}, -\frac{3}{64}, -\frac{3}{64}, -\frac{5}{32})$ $+ \frac{1}{32}\sqrt{210}e^3 \otimes e_7 + \frac{1}{32}\sqrt{210}e^4 \otimes e_6$	{123458, 125678, 134, 167, 2368, 356}
841:4	$0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{6}e^{13}, \frac{1}{3}\sqrt{6}e^{14}, \frac{1}{3}\sqrt{3}e^{15}$	$(-\frac{1}{6}, \frac{1}{3}, \frac{2}{3}, -\frac{1}{6}, \frac{1}{6}, \frac{1}{2}, -\frac{1}{3}, 0)$ $+ \frac{1}{3}\sqrt{15}e^3 \otimes e_7$	{123458, 125678, 134, 167, 2368, 2478, 356, 457}
841:5	$0, 0, 0, 0, \frac{14}{467}\sqrt{95}e^{12}, \frac{2}{467}\sqrt{12730}e^{13}, \frac{8}{467}\sqrt{95}e^{14}, \frac{6}{467}\sqrt{1045}e^{25}$	$(-\frac{138}{467}, \frac{149}{467}, \frac{97}{467}, \frac{45}{467}, \frac{11}{467}, -\frac{41}{467}, -\frac{93}{467}, \frac{160}{467})$ $+ \frac{10}{467}\sqrt{646}e^3 \otimes e_7 + \frac{4}{467}\sqrt{5605}e^2 \otimes e_6$	{12348, 15678, 2457, 36}
841:5	$0, 0, 0, 0, \frac{4}{1857}\sqrt{8949}e^{12}, \frac{2}{1857}\sqrt{96555}e^{13}, \frac{4}{619}\sqrt{942}e^{14}, \frac{2}{1857}\sqrt{97183}e^{25}$	$(-\frac{144}{619}, \frac{236}{1857}, \frac{118}{619}, \frac{137}{619}, -\frac{196}{1857}, -\frac{26}{619}, -\frac{7}{619}, \frac{40}{1857})$ $+ \frac{2}{619}\sqrt{13502}e^3 \otimes e_8 + \frac{4}{1857}\sqrt{34854}e^2 \otimes e_6$	{145678, 1568, 346, 367}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:5	$0, 0, 0, 0, \frac{2}{467}\sqrt{12730}e^{12}, \frac{14}{467}\sqrt{95}e^{13}, \frac{8}{467}\sqrt{95}e^{14}, \frac{6}{467}\sqrt{1045}e^{25}$	$(\frac{32}{467}, \frac{64}{467}, -\frac{158}{467}, \frac{45}{467}, \frac{96}{467}, -\frac{126}{467}, \frac{77}{467}, \frac{160}{467})$ $+ \frac{10}{467}\sqrt{646}e^1 \otimes e_3 + \frac{4}{467}\sqrt{5605}e^2 \otimes e_6$	{14568, 15678, 3467, 36}
841:5	$0, 0, 0, 0, \frac{2}{1669}\sqrt{59965}e^{12}, \frac{6}{1669}\sqrt{6365}e^{13}, \frac{2}{1669}\sqrt{187265}e^{14}, \frac{2}{1669}\sqrt{108205}e^{25}$	$(-\frac{358}{1669}, \frac{49}{1669}, \frac{722}{1669}, \frac{410}{1669}, -\frac{309}{1669}, \frac{364}{1669}, \frac{52}{1669}, -\frac{260}{1669})$ $+ \frac{20}{1669}\sqrt{2345}e^3 \otimes e_7 + \frac{4}{1669}\sqrt{64990}e^4 \otimes e_8$	{12345, 134, 2368, 3568}
841:5	$0, 0, 0, 0, \frac{5}{23}\sqrt{2}e^{12}, \frac{10}{69}\sqrt{3}e^{13}, \frac{5}{23}\sqrt{2}e^{14}, \frac{5}{69}\sqrt{46}e^{25}$	$(-\frac{5}{23}, \frac{10}{69}, \frac{10}{23}, 0, -\frac{5}{69}, \frac{5}{23}, -\frac{5}{23}, \frac{5}{69})$ $+ \frac{5}{23}\sqrt{6}e^3 \otimes e_8 + \frac{5}{69}\sqrt{66}e^2 \otimes e_7$	{12468, 15678, 2356, 3467}
841:5	$0, 0, 0, 0, \frac{10}{31}e^{12}, \frac{6}{31}\sqrt{5}e^{13}, \frac{6}{31}\sqrt{5}e^{14}, \frac{2}{31}\sqrt{5}e^{25}$	$(-\frac{10}{31}, \frac{7}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{3}{31}, -\frac{2}{31}, -\frac{2}{31}, \frac{4}{31})$ $+ \frac{2}{31}\sqrt{70}e^3 \otimes e_7 + \frac{2}{31}\sqrt{70}e^4 \otimes e_6$	{12345, 12567, 134, 167, 2368, 3568}
841:5	$0, 0, 0, 0, \frac{10}{31}e^{12}, \frac{6}{31}\sqrt{5}e^{13}, \frac{6}{31}\sqrt{5}e^{14}, \frac{2}{31}\sqrt{5}e^{25}$	$(-\frac{10}{31}, \frac{7}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{3}{31}, -\frac{2}{31}, -\frac{2}{31}, \frac{4}{31})$ $+ \frac{2}{31}\sqrt{70}e^3 \otimes e_7 - \frac{2}{31}\sqrt{70}e^4 \otimes e_6$	{12345, 12567, 134, 167, 2368, 3568}
841:5	$0, 0, 0, 0, \frac{6}{1669}\sqrt{6365}e^{12}, \frac{2}{1669}\sqrt{187265}e^{13}, \frac{2}{1669}\sqrt{59965}e^{14}, \frac{2}{1669}\sqrt{108205}e^{25}$	$(\frac{342}{1669}, -\frac{301}{1669}, \frac{410}{1669}, -\frac{328}{1669}, \frac{41}{1669}, \frac{752}{1669}, \frac{14}{1669}, -\frac{260}{1669})$ $+ \frac{20}{1669}\sqrt{2345}e^1 \otimes e_4 + \frac{4}{1669}\sqrt{64990}e^3 \otimes e_8$	{1268, 1568, 23456, 346}
841:5	$0, 0, 0, 0, \frac{2}{73}\sqrt{95}e^{12}, \frac{2}{73}\sqrt{399}e^{13}, \frac{2}{73}\sqrt{95}e^{14}, \frac{2}{73}\sqrt{57}e^{25}$	$(\frac{10}{73}, \frac{1}{73}, \frac{20}{73}, -\frac{28}{73}, \frac{11}{73}, \frac{30}{73}, -\frac{18}{73}, \frac{12}{73})$ $+ \frac{8}{73}\sqrt{38}e^1 \otimes e_4 + \frac{8}{73}\sqrt{38}e^3 \otimes e_7$	{12678, 15678, 2457, 47}
841:5	$0, 0, 0, 0, \frac{2}{141}\sqrt{390}e^{12}, \frac{2}{141}\sqrt{3315}e^{13}, \frac{2}{141}\sqrt{390}e^{14}, \frac{2}{141}\sqrt{3055}e^{25}$	$(-\frac{4}{47}, -\frac{14}{141}, \frac{30}{47}, \frac{11}{47}, -\frac{26}{141}, \frac{26}{47}, \frac{7}{47}, -\frac{40}{141})$ $+ \frac{2}{141}\sqrt{7410}e^3 \otimes e_8$	{123457, 1235, 13, 1347, 248, 278, 458, 578}
841:5	$0, 0, 0, 0, \frac{1}{16}\sqrt{105}e^{12}, \frac{1}{16}\sqrt{105}e^{13}, \frac{1}{24}\sqrt{105}e^{14}, \frac{1}{12}\sqrt{70}e^{25}$	$(-\frac{1}{4}, \frac{37}{96}, -\frac{3}{32}, \frac{5}{16}, \frac{13}{96}, -\frac{11}{32}, \frac{1}{16}, \frac{25}{48})$ $+ \frac{1}{48}\sqrt{2730}e^2 \otimes e_6$	{123478, 1238, 145678, 1568, 245, 257, 346, 367}
841:5	$0, 0, 0, 0, \frac{1}{468}\sqrt{27371}e^{12}, \frac{1}{234}\sqrt{3737}e^{13}, \frac{1}{468}\sqrt{27371}e^{14}, \frac{1}{234}\sqrt{4747}e^{25}$	$(\frac{19}{234}, \frac{35}{312}, -\frac{7}{52}, -\frac{173}{936}, \frac{181}{936}, -\frac{25}{468}, -\frac{97}{936}, \frac{11}{36})$ $+ \frac{1}{234}\sqrt{9393}e^1 \otimes e_3 + \frac{1}{468}\sqrt{47066}e^2 \otimes e_7$	{1248, 1578, 235, 347}
841:5	$0, 0, 0, 0, \frac{2}{139}\sqrt{2847}e^{12}, \frac{2}{139}\sqrt{1241}e^{13}, \frac{2}{139}\sqrt{2847}e^{14}, \frac{6}{139}\sqrt{73}e^{25}$	$(\frac{78}{139}, -\frac{21}{139}, -\frac{68}{139}, -\frac{12}{139}, \frac{57}{139}, \frac{10}{139}, \frac{66}{139}, \frac{36}{139})$ $+ \frac{8}{139}\sqrt{511}e^1 \otimes e_3$	{1248, 1278, 1458, 1578, 23457, 235, 3, 347}
841:5	$0, 0, 0, 0, \frac{2}{139}\sqrt{1241}e^{12}, \frac{2}{139}\sqrt{2847}e^{13}, \frac{2}{139}\sqrt{2847}e^{14}, \frac{6}{139}\sqrt{73}e^{25}$	$(-\frac{34}{139}, \frac{35}{139}, \frac{100}{139}, -\frac{12}{139}, \frac{1}{139}, \frac{66}{139}, -\frac{46}{139}, \frac{36}{139})$ $+ \frac{8}{139}\sqrt{511}e^3 \otimes e_7$	{12345, 12567, 134, 167, 2368, 2478, 3568, 4578}
841:6	$0, 0, 0, 0, \frac{58}{339}\sqrt{5}e^{12}, \frac{2}{339}\sqrt{3219}e^{13}, \frac{2}{339}\sqrt{2059}e^{24}, \frac{2}{339}\sqrt{7627}e^{15}$	$(\frac{49}{339}, -\frac{47}{226}, -\frac{67}{339}, \frac{287}{678}, -\frac{43}{678}, -\frac{6}{113}, \frac{73}{339}, \frac{55}{678})$ $+ \frac{16}{339}\sqrt{145}e^1 \otimes e_3 + \frac{2}{339}\sqrt{8207}e^4 \otimes e_8$	{1278, 1457, 23578, 347}
841:6	$0, 0, 0, 0, \frac{2}{405}\sqrt{11993}e^{12}, \frac{13}{405}\sqrt{134}e^{13}, \frac{1}{405}\sqrt{12730}e^{24}, \frac{2}{405}\sqrt{7437}e^{15}$	$(\frac{43}{405}, \frac{41}{270}, -\frac{91}{405}, -\frac{29}{162}, \frac{209}{810}, -\frac{16}{135}, -\frac{11}{405}, \frac{59}{162})$ $+ \frac{1}{405}\sqrt{41942}e^2 \otimes e_4 + \frac{4}{405}\sqrt{3551}e^1 \otimes e_3$	{128, 145, 2358, 34}
841:6	$0, 0, 0, 0, \frac{1}{529}\sqrt{68182}e^{12}, \frac{2}{529}\sqrt{36893}e^{13}, \frac{4}{529}\sqrt{8873}e^{24}, \frac{6}{529}\sqrt{467}e^{15}$	$(-\frac{109}{529}, \frac{304}{529}, -\frac{54}{529}, -\frac{48}{529}, \frac{195}{529}, -\frac{163}{529}, \frac{256}{529}, \frac{86}{529})$ $+ \frac{5}{529}\sqrt{15878}e^2 \otimes e_6$	{1234, 1237, 145678, 1568, 245, 257, 34678, 368}
841:6	$0, 0, 0, 0, \frac{4}{551}\sqrt{530}e^{12}, \frac{2}{551}\sqrt{11395}e^{13}, \frac{2}{551}\sqrt{10441}e^{24}, \frac{6}{551}\sqrt{318}e^{15}$	$(-\frac{68}{551}, \frac{135}{551}, \frac{97}{551}, -\frac{144}{551}, \frac{67}{551}, \frac{1}{19}, -\frac{9}{551}, -\frac{1}{551})$ $+ \frac{2}{551}\sqrt{12667}e^2 \otimes e_6 + \frac{2}{551}\sqrt{13727}e^3 \otimes e_7$	{123458, 1467, 278, 356}
841:6	$0, 0, 0, 0, \frac{2}{55}\sqrt{190}e^{12}, \frac{2}{55}\sqrt{190}e^{13}, \frac{2}{55}\sqrt{285}e^{24}, \frac{2}{55}\sqrt{285}e^{15}$	$(\frac{4}{11}, -\frac{14}{55}, \frac{1}{55}, -\frac{4}{55}, \frac{6}{55}, \frac{21}{55}, -\frac{18}{55}, \frac{26}{55})$ $+ \frac{4}{55}\sqrt{209}e^1 \otimes e_7$	{12348, 12468, 135, 156, 235678, 2578, 3467, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:6	$0, 0, 0, 0, \frac{2}{521}\sqrt{7319}e^{12}, \frac{2}{521}\sqrt{39410}e^{13}, \frac{2}{521}\sqrt{12386}e^{24}, \frac{1}{521}\sqrt{143002}e^{15}$	$(-\frac{135}{521}, \frac{88}{521}, \frac{381}{521}, \frac{62}{521}, -\frac{47}{521}, \frac{246}{521}, \frac{150}{521}, -\frac{182}{521}) + \frac{1}{521}\sqrt{467290}e^3 \otimes e_8$	{12345, 12357, 14678, 168, 2346, 2367, 4578, 58}
841:6	$0, 0, 0, 0, \frac{1}{885}\sqrt{35814}e^{12}, \frac{2}{885}\sqrt{13589}e^{13}, \frac{4}{885}\sqrt{3937}e^{24}, \frac{2}{885}\sqrt{6477}e^{15}$	$(\frac{21}{295}, \frac{16}{177}, -\frac{22}{177}, -\frac{48}{295}, \frac{143}{885}, -\frac{47}{885}, -\frac{64}{885}, \frac{206}{885}) + \frac{1}{885}\sqrt{92710}e^2 \otimes e_6 + \frac{8}{885}\sqrt{1651}e^1 \otimes e_7$	{12348, 156, 2578, 3467}
841:6	$0, 0, 0, 0, \frac{1}{499}\sqrt{91982}e^{12}, \frac{1}{499}\sqrt{178266}e^{13}, \frac{2}{499}\sqrt{41514}e^{24}, \frac{3}{499}\sqrt{4070}e^{15}$	$(\frac{23}{499}, -\frac{7}{499}, -\frac{135}{499}, \frac{295}{499}, \frac{16}{499}, -\frac{112}{499}, \frac{288}{499}, \frac{39}{499}) + \frac{1}{499}\sqrt{337810}e^4 \otimes e_6$	{123458, 125678, 1347, 16, 23678, 248, 356, 457}
841:6	$0, 0, 0, 0, \frac{4}{15}\sqrt{3}e^{12}, \frac{2}{15}\sqrt{3}e^{13}, \frac{2}{15}\sqrt{6}e^{24}, \frac{2}{5}e^{15}$	$(\frac{2}{15}, \frac{1}{15}, \frac{1}{15}, -\frac{1}{3}, \frac{1}{5}, \frac{1}{5}, -\frac{4}{15}, \frac{1}{3}) + \frac{2}{15}\sqrt{15}e^2 \otimes e_4 + \frac{4}{15}\sqrt{6}e^1 \otimes e_7$	{235678, 2578, 3467, 47}
841:6	$0, 0, 0, 0, \frac{1}{499}\sqrt{91982}e^{12}, \frac{1}{499}\sqrt{178266}e^{13}, \frac{2}{499}\sqrt{41514}e^{24}, \frac{3}{499}\sqrt{4070}e^{15}$	$(\frac{23}{499}, -\frac{7}{499}, \frac{280}{499}, -\frac{120}{499}, \frac{16}{499}, \frac{303}{499}, -\frac{127}{499}, \frac{39}{499}) + \frac{1}{499}\sqrt{337810}e^3 \otimes e_7$	{123458, 125678, 13, 1467, 23468, 278, 356, 457}
841:6	$0, 0, 0, 0, \frac{36}{1523}\sqrt{61}e^{12}, \frac{288}{1523}\sqrt{7}e^{13}, \frac{36}{1523}\sqrt{285}e^{24}, \frac{36}{1523}\sqrt{118}e^{15}$	$(-\frac{432}{1523}, \frac{570}{1523}, \frac{354}{1523}, \frac{90}{1523}, \frac{138}{1523}, \frac{78}{1523}, \frac{480}{1523}, -\frac{294}{1523}) + \frac{36}{1523}\sqrt{607}e^3 \otimes e_8 + \frac{36}{1523}\sqrt{721}e^2 \otimes e_6$	{2458, 2578, 3467, 36}
841:6	$0, 0, 0, 0, \frac{4}{193}\sqrt{290}e^{12}, \frac{4}{193}\sqrt{290}e^{13}, \frac{4}{193}\sqrt{435}e^{24}, \frac{4}{193}\sqrt{435}e^{15}$	$(\frac{40}{193}, -\frac{23}{193}, -\frac{76}{193}, \frac{80}{193}, \frac{17}{193}, -\frac{36}{193}, \frac{57}{193}, \frac{57}{193}) + \frac{2}{193}\sqrt{4814}e^1 \otimes e_3 + \frac{2}{193}\sqrt{4814}e^4 \otimes e_6$	{12678, 156, 235678, 36}
841:6	$0, 0, 0, 0, \frac{1}{499}\sqrt{178266}e^{12}, \frac{1}{499}\sqrt{91982}e^{13}, \frac{3}{499}\sqrt{4070}e^{24}, \frac{2}{499}\sqrt{41514}e^{15}$	$(\frac{189}{499}, -\frac{90}{499}, -\frac{218}{499}, \frac{129}{499}, \frac{99}{499}, -\frac{29}{499}, \frac{39}{499}, \frac{288}{499}) + \frac{1}{499}\sqrt{337810}e^1 \otimes e_3$	{12478, 128, 145, 157, 234578, 2358, 34, 37}
841:6	$0, 0, 0, 0, \frac{2}{21}\sqrt{3}e^{12}, \frac{2}{21}\sqrt{3}e^{13}, \frac{2}{21}\sqrt{13}e^{24}, \frac{2}{21}\sqrt{13}e^{15}$	$(\frac{1}{7}, -\frac{11}{42}, \frac{1}{21}, \frac{3}{14}, -\frac{5}{42}, \frac{4}{21}, -\frac{1}{21}, \frac{1}{42}) + \frac{2}{21}\sqrt{17}e^4 \otimes e_8 + \frac{4}{21}\sqrt{5}e^1 \otimes e_7$	{235678, 2578, 3467, 47}
841:6	$0, 0, 0, 0, \frac{2}{845}\sqrt{6913}e^{12}, \frac{2}{845}\sqrt{20962}e^{13}, \frac{2}{845}\sqrt{17394}e^{24}, \frac{1}{845}\sqrt{97674}e^{15}$	$(\frac{61}{845}, -\frac{112}{845}, \frac{233}{845}, -\frac{10}{169}, -\frac{51}{845}, \frac{294}{845}, -\frac{162}{845}, \frac{2}{169}) + \frac{3}{845}\sqrt{15610}e^3 \otimes e_8 + \frac{4}{845}\sqrt{11819}e^1 \otimes e_7$	{12468, 135, 2578, 3467}
841:6	$0, 0, 0, 0, \frac{1}{21}\sqrt{114}e^{12}, \frac{1}{21}\sqrt{6}e^{13}, \frac{1}{21}\sqrt{30}e^{24}, \frac{2}{7}\sqrt{2}e^{15}$	$(\frac{5}{63}, \frac{10}{63}, -\frac{22}{63}, \frac{1}{21}, \frac{5}{21}, -\frac{17}{63}, \frac{13}{63}, \frac{20}{63}) + \frac{1}{21}\sqrt{174}e^1 \otimes e_3 + \frac{2}{21}\sqrt{39}e^2 \otimes e_6$	{14567, 156, 3467, 36}
841:6	$0, 0, 0, 0, \frac{4}{31}\sqrt{57}e^{12}, \frac{2}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{38}e^{24}, \frac{2}{31}\sqrt{57}e^{15}$	$(-\frac{6}{31}, \frac{21}{31}, \frac{9}{31}, -\frac{17}{31}, \frac{15}{31}, \frac{3}{31}, \frac{4}{31}, \frac{9}{31}) + \frac{10}{31}\sqrt{19}e^2 \otimes e_4$	{12368, 128, 13456, 145, 2358, 2568, 34, 46}
841:6	$0, 0, 0, 0, \frac{1}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{154}e^{13}, \frac{2}{35}\sqrt{42}e^{24}, \frac{1}{35}\sqrt{42}e^{15}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, \frac{1}{5}) + \frac{1}{35}\sqrt{210}e^4 \otimes e_6 + \frac{4}{35}\sqrt{14}e^1 \otimes e_7$	{12345, 168, 2367, 4578}
841:6	$0, 0, 0, 0, \frac{20}{1321}\sqrt{874}e^{12}, \frac{22}{1321}\sqrt{437}e^{13}, \frac{4}{1321}\sqrt{874}e^{24}, \frac{2}{1321}\sqrt{96577}e^{15}$	$(-\frac{366}{1321}, \frac{521}{1321}, \frac{663}{1321}, -\frac{353}{1321}, \frac{155}{1321}, \frac{297}{1321}, \frac{168}{1321}, -\frac{211}{1321}) + \frac{152}{1321}\sqrt{46}e^3 \otimes e_8 + \frac{2}{1321}\sqrt{234669}e^2 \otimes e_4$	{1268, 1345, 258, 346}
841:6	$0, 0, 0, 0, \frac{2}{1489}\sqrt{71285}e^{12}, \frac{2}{1489}\sqrt{151985}e^{13}, \frac{2}{1489}\sqrt{105179}e^{24}, \frac{2}{1489}\sqrt{15871}e^{15}$	$(-\frac{198}{1489}, \frac{35}{1489}, \frac{177}{1489}, \frac{517}{1489}, -\frac{163}{1489}, -\frac{21}{1489}, \frac{552}{1489}, -\frac{361}{1489}) + \frac{2}{1489}\sqrt{156289}e^3 \otimes e_8 + \frac{6}{1489}\sqrt{22327}e^4 \otimes e_6$	{12345, 168, 2367, 4578}
841:6	$0, 0, 0, 0, \frac{2}{339}\sqrt{3219}e^{12}, \frac{58}{339}\sqrt{5}e^{13}, \frac{2}{339}\sqrt{7627}e^{24}, \frac{2}{339}\sqrt{2059}e^{15}$	$(-\frac{5}{113}, -\frac{77}{678}, \frac{125}{339}, \frac{95}{678}, -\frac{107}{678}, \frac{110}{339}, \frac{3}{113}, -\frac{137}{678}) + \frac{16}{339}\sqrt{145}e^3 \otimes e_7 + \frac{2}{339}\sqrt{8207}e^4 \otimes e_8$	{12345, 138, 2346, 3568}
841:6	$0, 0, 0, 0, \frac{2}{1401}\sqrt{15789}e^{12}, \frac{2}{1401}\sqrt{50137}e^{13}, \frac{16}{1401}\sqrt{1939}e^{24}, \frac{20}{1401}\sqrt{554}e^{15}$	$(-\frac{86}{467}, \frac{295}{1401}, -\frac{1}{1401}, \frac{111}{467}, \frac{37}{1401}, -\frac{259}{1489}, \frac{628}{1489}, -\frac{221}{1401}) + \frac{2}{1401}\sqrt{166477}e^4 \otimes e_8 + \frac{4}{1401}\sqrt{42935}e^2 \otimes e_6$	{12378, 14567, 2578, 3467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:6	$0, 0, 0, 0, \frac{10}{79}e^{12}, \frac{5}{79}\sqrt{78}e^{13}, \frac{5}{79}\sqrt{74}e^{24}, \frac{10}{79}\sqrt{3}e^{15}$	$(-\frac{5}{79}, \frac{35}{158}, \frac{35}{79}, -\frac{65}{158}, \frac{25}{158}, \frac{30}{79}, -\frac{15}{79}, \frac{15}{158})$ $+\frac{20}{79}\sqrt{11}e^3 \otimes e_7 + \frac{35}{79}\sqrt{2}e^2 \otimes e_4$	{125678, 1467, 278, 457}
841:6	$0, 0, 0, 0, \frac{1}{444}\sqrt{4182}e^{12}, \frac{1}{444}\sqrt{7106}e^{13}, \frac{1}{148}\sqrt{714}e^{24}, \frac{1}{222}\sqrt{510}e^{15}$	$(\frac{1}{148}, -\frac{1}{12}, \frac{55}{888}, \frac{95}{888}, -\frac{17}{222}, \frac{61}{888}, \frac{7}{296}, -\frac{31}{444})$ $+\frac{1}{444}\sqrt{7055}e^3 \otimes e_7 + \frac{1}{444}\sqrt{7055}e^4 \otimes e_6$	{123458, 125678, 356, 457}
841:6	$0, 0, 0, 0, \frac{2}{13}\sqrt{3}e^{12}, \frac{2}{13}\sqrt{3}e^{13}, \frac{6}{13}\sqrt{3}e^{24}, \frac{6}{13}\sqrt{3}e^{15}$	$(-\frac{1}{13}, -\frac{3}{26}, \frac{3}{13}, \frac{17}{26}, -\frac{5}{26}, \frac{2}{13}, \frac{7}{13}, -\frac{7}{26})$ $+\frac{6}{13}\sqrt{7}e^4 \otimes e_8$	{123456, 1245, 1368, 18, 234, 246, 358, 568}
841:7	$0, 0, 0, 0, \frac{36}{1151}\sqrt{74}e^{12}, \frac{36}{1151}\sqrt{391}e^{34}, \frac{72}{1151}\sqrt{94}e^{13} + \frac{36}{1151}\sqrt{354}e^{24},$ $\frac{36}{1151}\sqrt{509}e^{15}$	$(-\frac{7}{1151}, -\frac{228}{1151}, \frac{185}{1151}, \frac{406}{1151}, -\frac{235}{1151}, \frac{591}{1151}, \frac{178}{1151}, -\frac{242}{1151})$ $+\frac{36}{1151}\sqrt{951}e^4 \otimes e_8$	{123678, 13457, 2578, 467}
841:7	$0, 0, 0, 0, \frac{8}{43}\sqrt{15}e^{12}, \frac{8}{43}\sqrt{15}e^{34}, \frac{2}{43}\sqrt{195}e^{13} + \frac{4}{43}\sqrt{30}e^{24},$ $\frac{2}{43}\sqrt{105}e^{15}$	$(-\frac{2}{43}, \frac{19}{43}, \frac{5}{43}, -\frac{16}{43}, \frac{17}{43}, -\frac{11}{43}, \frac{3}{43}, \frac{15}{43})$ $+\frac{10}{43}\sqrt{21}e^2 \otimes e_6$	{23458, 2578, 36, 467}
841:7	$0, 0, 0, 0, \frac{3}{577}\sqrt{3190}e^{12}, \frac{12}{577}\sqrt{1265}e^{34}, \frac{132}{577}\sqrt{5}e^{13} + \frac{9}{577}\sqrt{770}e^{24},$ $\frac{3}{577}\sqrt{17930}e^{15}$	$(-\frac{168}{577}, \frac{146}{577}, \frac{305}{577}, -\frac{9}{577}, -\frac{22}{577}, \frac{296}{577}, \frac{137}{577}, -\frac{190}{577})$ $+\frac{15}{577}\sqrt{2046}e^3 \otimes e_8$	{124678, 1345, 258, 367}
841:7	$0, 0, 0, 0, \frac{3}{98}\sqrt{35}e^{12}, \frac{1}{98}\sqrt{511}e^{34}, \frac{1}{98}\sqrt{203}e^{13} + \frac{1}{98}\sqrt{42}e^{24},$ $\frac{5}{98}\sqrt{21}e^{15}$	$(\frac{3}{28}, -\frac{1}{7}, -\frac{3}{28}, \frac{1}{7}, -\frac{1}{28}, \frac{1}{28}, 0, \frac{1}{14})$ $+\frac{1}{7}\sqrt{3}e^4 \otimes e_8 + \frac{1}{98}\sqrt{623}e^1 \otimes e_6$	{13457, 467}
841:7	$0, 0, 0, 0, \frac{20}{91}\sqrt{3}e^{12}, \frac{8}{91}\sqrt{30}e^{34}, \frac{6}{91}\sqrt{15}e^{13} + \frac{4}{91}\sqrt{15}e^{24},$ $\frac{2}{91}\sqrt{285}e^{15}$	$(-\frac{18}{91}, \frac{31}{91}, \frac{25}{91}, -\frac{24}{91}, \frac{1}{7}, \frac{1}{91}, \frac{1}{13}, -\frac{5}{91})$ $+\frac{12}{91}\sqrt{15}e^3 \otimes e_8 + \frac{2}{91}\sqrt{645}e^2 \otimes e_6$	{2578, 36}
841:7	$0, 0, 0, 0, \frac{16}{539}\sqrt{7}e^{12}, \frac{6}{539}\sqrt{77}e^{34}, \frac{1}{539}\sqrt{742}e^{13} + \frac{6}{539}\sqrt{42}e^{24},$ $\frac{18}{539}\sqrt{7}e^{15}$	$(-\frac{2}{77}, \frac{5}{77}, \frac{2}{77}, -\frac{5}{77}, \frac{3}{77}, -\frac{3}{77}, 0, \frac{1}{77})$ $+\frac{2}{539}\sqrt{959}e^1 \otimes e_6 + \frac{2}{77}\sqrt{15}e^3 \otimes e_8$	{1345, 367}
841:7	$0, 0, 0, 0, \frac{1}{14}\sqrt{77}e^{12}, \frac{1}{14}\sqrt{77}e^{34}, \frac{1}{14}\sqrt{7}e^{13} + \frac{1}{14}\sqrt{42}e^{24},$ $\frac{3}{14}\sqrt{7}e^{15}$	$(\frac{1}{4}, 0, -\frac{1}{4}, 0, \frac{1}{4}, -\frac{1}{4}, 0, \frac{1}{2})$ $+\frac{1}{14}\sqrt{161}e^1 \otimes e_6$	{1345, 157, 367, 46}
841:7	$0, 0, 0, 0, \frac{6}{385}\sqrt{39}e^{12}, \frac{3}{385}\sqrt{278}e^{34}, \frac{6}{385}\sqrt{66}e^{13} + \frac{6}{77}\sqrt{2}e^{24},$ $\frac{6}{385}\sqrt{59}e^{15}$	$(-\frac{5}{77}, \frac{24}{385}, \frac{32}{385}, -\frac{17}{385}, -\frac{1}{385}, \frac{3}{77}, \frac{1}{55}, -\frac{26}{385})$ $+\frac{3}{385}\sqrt{326}e^2 \otimes e_6 + \frac{3}{385}\sqrt{366}e^4 \otimes e_8$	{2578, 467}
841:8	$0, 0, 0, 0, \frac{2}{61}\sqrt{246}e^{12}, \frac{1}{61}\sqrt{574}e^{13}, \frac{6}{61}\sqrt{41}e^{23},$ $\frac{2}{61}\sqrt{451}e^{15} + \frac{2}{61}\sqrt{246}e^{34}$	$(\frac{20}{61}, -\frac{19}{61}, -\frac{2}{61}, \frac{23}{61}, \frac{1}{61}, \frac{18}{61}, -\frac{21}{61}, \frac{21}{61})$ $+\frac{10}{61}\sqrt{41}e^1 \otimes e_7$	{12348, 1456, 2578, 367}
841:8	$0, 0, 0, 0, \frac{69}{539}\sqrt{22}e^{12}, \frac{46}{539}\sqrt{59}e^{13}, \frac{46}{539}\sqrt{62}e^{23},$ $\frac{46}{539}\sqrt{6}e^{15} + \frac{230}{539}e^{34}$	$(-\frac{125}{539}, \frac{316}{539}, -\frac{8}{49}, \frac{2}{7}, \frac{191}{539}, -\frac{213}{539}, \frac{228}{539}, \frac{6}{49})$ $+\frac{23}{539}\sqrt{870}e^2 \otimes e_6$	{12348, 1456, 2578, 367}
841:8	$0, 0, 0, 0, \frac{22}{1119}\sqrt{30}e^{12}, \frac{11}{1119}\sqrt{2022}e^{13}, \frac{44}{1119}\sqrt{123}e^{23},$ $\frac{22}{373}\sqrt{3}e^{15} + \frac{22}{1119}\sqrt{273}e^{34}$	$(-\frac{66}{373}, \frac{99}{373}, \frac{44}{373}, -\frac{77}{373}, \frac{33}{373}, -\frac{22}{373}, \frac{143}{373}, -\frac{33}{373})$ $+\frac{22}{1119}\sqrt{771}e^3 \otimes e_4 + \frac{44}{373}\sqrt{21}e^2 \otimes e_6$	{146, 3567}
841:8	$0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{2}{49}\sqrt{34}e^{13}, \frac{6}{49}\sqrt{6}e^{23}, \frac{4}{49}\sqrt{10}e^{15} + \frac{12}{49}e^{34}$	$(\frac{2}{49}, \frac{2}{49}, -\frac{8}{49}, \frac{2}{7}, \frac{4}{49}, -\frac{6}{49}, -\frac{6}{49}, \frac{6}{49})$ $-\frac{2}{49}\sqrt{78}e^2 \otimes e_6 + \frac{2}{7}\sqrt{2}e^1 \otimes e_7$	{12348, 1456, 2578, 367}
841:8	$0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{2}{49}\sqrt{34}e^{13}, \frac{6}{49}\sqrt{6}e^{23}, \frac{4}{49}\sqrt{10}e^{15} + \frac{12}{49}e^{34}$	$(\frac{2}{49}, \frac{2}{49}, -\frac{8}{49}, \frac{2}{7}, \frac{4}{49}, -\frac{6}{49}, -\frac{6}{49}, \frac{6}{49})$ $+\frac{2}{49}\sqrt{78}e^2 \otimes e_6 + \frac{2}{7}\sqrt{2}e^1 \otimes e_7$	{12348, 1456, 2578, 367}
841:8	$0, 0, 0, 0, \frac{114}{1423}\sqrt{14}e^{12}, \frac{38}{1423}\sqrt{71}e^{13}, \frac{38}{1423}\sqrt{371}e^{23},$ $\frac{38}{1423}\sqrt{3}e^{15} + \frac{38}{1423}\sqrt{113}e^{34}$	$(-\frac{19}{1423}, \frac{323}{1423}, -\frac{380}{1423}, \frac{665}{1423}, \frac{304}{1423}, -\frac{399}{1423}, -\frac{57}{1423}, \frac{285}{1423})$ $+\frac{114}{1423}\sqrt{67}e^4 \otimes e_7 + \frac{38}{1423}\sqrt{645}e^2 \otimes e_6$	{1234, 14568, 257, 3678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:8	$0, 0, 0, 0, \frac{114}{1423}\sqrt{14}e^{12}, \frac{38}{1423}\sqrt{71}e^{13}, \frac{38}{1423}\sqrt{371}e^{23},$ $\frac{38}{1423}\sqrt{3}e^{15} + \frac{38}{1423}\sqrt{113}e^{34}$	$(-\frac{19}{1423}, \frac{323}{1423}, -\frac{380}{1423}, \frac{665}{1423}, \frac{304}{1423}, -\frac{399}{1423}, -\frac{57}{1423}, \frac{285}{1423})$ $-\frac{114}{1423}\sqrt{67}e^4 \otimes e_7 + \frac{38}{1423}\sqrt{645}e^2 \otimes e_6$	{1234, 14568, 257, 3678}
841:8	$0, 0, 0, 0, \frac{2}{37}\sqrt{3}e^{12}, \frac{5}{37}\sqrt{6}e^{13}, \frac{6}{37}\sqrt{6}e^{23},$ $\frac{2}{37}\sqrt{33}e^{15} + \frac{17}{37}e^{34}$	$(\frac{6}{37}, -\frac{9}{37}, \frac{6}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, \frac{3}{37})$ $+\frac{2}{37}\sqrt{66}e^3 \otimes e_4 + \frac{4}{37}\sqrt{21}e^1 \otimes e_7$	{1456, 367}
841:9	$0, 0, 0, 0, \frac{1}{20}\sqrt{114}e^{12}, \frac{1}{20}\sqrt{285}e^{13}, \frac{1}{20}\sqrt{285}e^{14} + \frac{1}{20}\sqrt{114}e^{23},$ $\frac{1}{10}\sqrt{38}e^{15}$	$(-\frac{1}{4}, \frac{9}{20}, -\frac{3}{40}, \frac{5}{8}, \frac{1}{5}, -\frac{13}{40}, \frac{3}{8}, -\frac{1}{20})$ $+\frac{1}{20}\sqrt{646}e^4 \otimes e_6$	{134, 167, 356, 457}
841:9	$0, 0, 0, 0, \frac{18}{349}\sqrt{55}e^{12}, \frac{45}{349}\sqrt{6}e^{13}, \frac{18}{349}\sqrt{41}e^{14} + \frac{18}{349}\sqrt{13}e^{23},$ $\frac{18}{349}\sqrt{35}e^{15}$	$(\frac{30}{349}, \frac{45}{349}, -\frac{66}{349}, -\frac{51}{349}, \frac{75}{349}, -\frac{36}{349}, -\frac{21}{349}, \frac{105}{349})$ $+\frac{18}{349}\sqrt{73}e^2 \otimes e_6 + \frac{36}{349}\sqrt{21}e^1 \otimes e_4$	{1238, 156}
841:9	$0, 0, 0, 0, \frac{1}{29}\sqrt{462}e^{12}, \frac{11}{29}\sqrt{2}e^{13}, \frac{1}{29}\sqrt{286}e^{14} + \frac{1}{29}\sqrt{66}e^{23},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(\frac{19}{58}, -\frac{4}{29}, \frac{1}{29}, -\frac{25}{58}, \frac{11}{58}, \frac{21}{58}, -\frac{3}{29}, \frac{15}{29})$ $+\frac{4}{29}\sqrt{66}e^1 \otimes e_4$	{1268, 135, 2458, 346}
841:9	$0, 0, 0, 0, \frac{1}{29}\sqrt{66}e^{12}, \frac{11}{29}\sqrt{2}e^{13}, \frac{1}{29}\sqrt{286}e^{14} + \frac{1}{29}\sqrt{462}e^{23},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(-\frac{5}{58}, -\frac{4}{29}, \frac{13}{29}, \frac{23}{58}, -\frac{13}{58}, \frac{21}{58}, \frac{9}{29}, -\frac{9}{29})$ $+\frac{4}{29}\sqrt{66}e^3 \otimes e_8$	{1235, 168, 2346, 458}
841:9	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{53}\sqrt{30}e^{13}, \frac{10}{53}e^{14} + \frac{5}{53}\sqrt{14}e^{23},$ $\frac{5}{53}\sqrt{10}e^{15}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, 0, \frac{15}{53}, -\frac{15}{53})$ $+\frac{10}{53}\sqrt{13}e^3 \otimes e_8 + \frac{5}{53}\sqrt{42}e^4 \otimes e_6$	{12345, 236}
841:9	$0, 0, 0, 0, \frac{72}{263}\sqrt{6}e^{12}, \frac{27}{263}\sqrt{38}e^{13}, \frac{90}{263}\sqrt{3}e^{14} + \frac{72}{263}\sqrt{6}e^{23},$ $\frac{18}{263}\sqrt{21}e^{15}$	$(-\frac{36}{263}, \frac{135}{263}, -\frac{72}{263}, \frac{99}{263}, \frac{99}{263}, -\frac{108}{263}, \frac{63}{263}, \frac{63}{263})$ $+\frac{18}{263}\sqrt{321}e^2 \otimes e_6$	{1238, 156, 2578, 367}
841:9	$0, 0, 0, 0, \frac{18}{349}\sqrt{13}e^{12}, \frac{45}{349}\sqrt{6}e^{13}, \frac{18}{349}\sqrt{41}e^{14} + \frac{18}{349}\sqrt{55}e^{23},$ $\frac{18}{349}\sqrt{35}e^{15}$	$(-\frac{54}{349}, \frac{45}{349}, \frac{18}{349}, \frac{117}{349}, -\frac{9}{349}, -\frac{36}{349}, \frac{63}{349}, -\frac{63}{349})$ $+\frac{18}{349}\sqrt{73}e^2 \otimes e_6 + \frac{36}{349}\sqrt{21}e^3 \otimes e_8$	{2578, 367}
841:9	$0, 0, 0, 0, \frac{36}{527}\sqrt{35}e^{12}, \frac{36}{527}\sqrt{15}e^{13}, \frac{36}{527}\sqrt{5}e^{14} + \frac{36}{527}\sqrt{35}e^{23},$ $\frac{72}{527}\sqrt{10}e^{15}$	$(-\frac{117}{527}, \frac{180}{527}, -\frac{27}{527}, \frac{270}{527}, \frac{63}{527}, -\frac{144}{527}, \frac{9}{31}, -\frac{54}{527})$ $+\frac{18}{527}\sqrt{494}e^2 \otimes e_6 + \frac{54}{527}\sqrt{46}e^4 \otimes e_8$	{1456, 3467}
841:9	$0, 0, 0, 0, \frac{5}{259}\sqrt{66}e^{12}, \frac{10}{259}\sqrt{187}e^{13}, \frac{5}{259}\sqrt{1562}e^{14} + \frac{5}{259}\sqrt{66}e^{23},$ $\frac{10}{259}\sqrt{407}e^{15}$	$(-\frac{65}{259}, \frac{43}{259}, \frac{80}{259}, \frac{188}{259}, -\frac{22}{259}, \frac{15}{259}, \frac{123}{259}, -\frac{87}{259})$ $+\frac{10}{259}\sqrt{1155}e^4 \otimes e_8$	{1278, 145, 2358, 347}
841:10	$0, 0, 0, 0, \frac{1}{286}\sqrt{717}e^{12}, \frac{1}{286}\sqrt{717}e^{13}, \frac{1}{286}\sqrt{13862}e^{14} + \frac{1}{286}\sqrt{28202}e^{23},$ $\frac{1}{286}\sqrt{54970}e^{25}$	$(-\frac{31}{143}, -\frac{7}{572}, \frac{223}{572}, \frac{85}{143}, \frac{131}{572}, \frac{9}{52}, \frac{54}{143}, -\frac{69}{286})$ $+\frac{1}{286}\sqrt{112330}e^4 \otimes e_8$	{1245, 1346, 268, 358}
841:10	$0, 0, 0, 0, \frac{3}{284}\sqrt{5605}e^{12}, \frac{3}{284}\sqrt{5605}e^{13}, \frac{9}{284}\sqrt{190}e^{14} + \frac{1}{284}\sqrt{24510}e^{23},$ $\frac{2}{71}\sqrt{285}e^{25}$	$(\frac{67}{142}, -\frac{49}{568}, \frac{15}{568}, -\frac{151}{284}, \frac{219}{568}, \frac{283}{568}, -\frac{17}{284}, \frac{85}{284})$ $+\frac{3}{284}\sqrt{14630}e^1 \otimes e_4$	{1268, 1358, 245, 346}
841:10	$0, 0, 0, 0, \frac{1}{27}\sqrt{266}e^{12}, \frac{1}{27}\sqrt{266}e^{13}, \frac{2}{27}\sqrt{38}e^{14} + \frac{1}{27}\sqrt{114}e^{23},$ $\frac{4}{27}\sqrt{19}e^{25}$	$(-\frac{5}{27}, \frac{1}{3}, -\frac{5}{27}, \frac{1}{3}, \frac{4}{27}, -\frac{10}{27}, \frac{4}{27}, \frac{13}{27})$ $+\frac{2}{27}\sqrt{209}e^2 \otimes e_6$	{1238, 1568, 257, 367}
841:10	$0, 0, 0, 0, \frac{15}{626}\sqrt{167}e^{12}, \frac{15}{626}\sqrt{167}e^{13}, \frac{60}{313}\sqrt{2}e^{14} + \frac{75}{626}\sqrt{2}e^{23},$ $\frac{15}{626}\sqrt{434}e^{25}$	$(-\frac{75}{313}, \frac{195}{1252}, \frac{45}{1252}, \frac{135}{313}, -\frac{105}{1252}, -\frac{255}{1252}, \frac{60}{313}, \frac{45}{626})$ $+\frac{15}{313}\sqrt{146}e^2 \otimes e_6 + \frac{15}{626}\sqrt{506}e^4 \otimes e_8$	{12378, 15678}
841:10	$0, 0, 0, 0, \frac{7}{613}\sqrt{570}e^{12}, \frac{14}{613}\sqrt{505}e^{13}, \frac{7}{613}\sqrt{690}e^{14} + \frac{7}{613}\sqrt{190}e^{23},$ $\frac{14}{613}\sqrt{285}e^{25}$	$(\frac{133}{613}, -\frac{119}{613}, \frac{140}{613}, -\frac{112}{613}, \frac{14}{613}, \frac{273}{613}, \frac{21}{613}, -\frac{105}{613})$ $+\frac{42}{613}\sqrt{70}e^1 \otimes e_4 + \frac{70}{613}\sqrt{29}e^3 \otimes e_8$	{1568, 23456}
841:10	$0, 0, 0, 0, \frac{7}{613}\sqrt{690}e^{12}, \frac{14}{613}\sqrt{505}e^{13}, \frac{7}{613}\sqrt{570}e^{14} + \frac{7}{613}\sqrt{190}e^{23},$ $\frac{14}{613}\sqrt{285}e^{25}$	$(-\frac{119}{613}, \frac{7}{613}, \frac{140}{613}, \frac{266}{613}, -\frac{112}{613}, \frac{21}{613}, \frac{147}{613}, -\frac{105}{613})$ $+\frac{42}{613}\sqrt{70}e^4 \otimes e_6 + \frac{70}{613}\sqrt{29}e^3 \otimes e_8$	{12345, 2478}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:10	$0, 0, 0, 0, \frac{28}{289}\sqrt{15}e^{12}, \frac{14}{289}\sqrt{235}e^{13}, \frac{28}{289}\sqrt{15}e^{14} + \frac{35}{289}\sqrt{22}e^{23},$ $\frac{14}{289}\sqrt{195}e^{25}$	$(\frac{7}{289}, -\frac{56}{289}, \frac{140}{289}, \frac{77}{289}, -\frac{49}{289}, \frac{147}{289}, \frac{84}{289}, -\frac{105}{289})$ $+ \frac{14}{289}\sqrt{590}e^3 \otimes e_8$	{1235, 1347, 278, 458}
841:10	$0, 0, 0, 0, \frac{14}{909}\sqrt{530}e^{12}, \frac{14}{909}\sqrt{530}e^{13}, \frac{28}{909}\sqrt{71}e^{14} + \frac{14}{303}\sqrt{2}e^{23},$ $\frac{14}{909}\sqrt{370}e^{25}$	$(\frac{70}{909}, \frac{35}{303}, -\frac{161}{909}, -\frac{14}{101}, \frac{175}{909}, -\frac{91}{909}, -\frac{56}{909}, \frac{280}{909})$ $+ \frac{14}{909}\sqrt{902}e^2 \otimes e_6 + \frac{154}{909}\sqrt{6}e^1 \otimes e_4$	{245, 346}
841:10	$0, 0, 0, 0, \frac{9}{284}\sqrt{190}e^{12}, \frac{3}{284}\sqrt{5605}e^{13}, \frac{3}{284}\sqrt{5605}e^{14} + \frac{1}{284}\sqrt{24510}e^{23},$ $\frac{2}{71}\sqrt{285}e^{25}$	$(-\frac{97}{284}, \frac{91}{284}, \frac{15}{568}, \frac{391}{568}, -\frac{3}{142}, -\frac{179}{568}, \frac{197}{568}, \frac{85}{284})$ $+ \frac{3}{284}\sqrt{14630}e^4 \otimes e_6$	{134, 167, 3568, 4578}
841:10	$0, 0, 0, 0, \frac{84}{3797}\sqrt{41}e^{12}, \frac{42}{3797}\sqrt{571}e^{13},$ $\frac{84}{3797}\sqrt{71}e^{14} + \frac{21}{3797}\sqrt{1222}e^{23}, \frac{126}{3797}\sqrt{59}e^{25}$	$(-\frac{525}{3797}, \frac{168}{3797}, \frac{252}{3797}, \frac{945}{3797}, -\frac{357}{3797}, -\frac{273}{3797}, \frac{420}{3797}, -\frac{189}{3797})$ $+ \frac{336}{3797}\sqrt{14}e^2 \otimes e_6 + \frac{42}{3797}\sqrt{814}e^3 \otimes e_8$	{1568, 367}
841:11	$0, 0, 0, 0, \frac{1}{163}\sqrt{1038}e^{12}, \frac{2}{163}\sqrt{3806}e^{13}, \frac{1}{163}\sqrt{16262}e^{34},$ $\frac{1}{163}\sqrt{1038}e^{15} + \frac{2}{163}\sqrt{1903}e^{23}$	$(-\frac{19}{163}, \frac{50}{163}, -\frac{38}{163}, \frac{116}{163}, \frac{31}{163}, -\frac{57}{163}, \frac{78}{163}, \frac{12}{163})$ $+ \frac{2}{163}\sqrt{11418}e^4 \otimes e_6$	{12348, 1345, 235678, 367}
841:11	$0, 0, 0, 0, \frac{1}{20}\sqrt{114}e^{12}, \frac{1}{20}\sqrt{209}e^{13}, \frac{1}{20}\sqrt{95}e^{34},$ $\frac{1}{20}\sqrt{95}e^{15} + \frac{1}{20}\sqrt{209}e^{23}$	$(-\frac{1}{8}, \frac{23}{40}, -\frac{1}{4}, \frac{3}{10}, \frac{9}{20}, -\frac{3}{8}, \frac{1}{20}, \frac{13}{40})$ $+ \frac{1}{20}\sqrt{627}e^2 \otimes e_6$	{123, 12347, 34678, 368}
841:11	$0, 0, 0, 0, \frac{40}{169}\sqrt{10}e^{12}, \frac{10}{169}\sqrt{115}e^{13}, \frac{40}{169}\sqrt{10}e^{34},$ $\frac{30}{169}\sqrt{5}e^{15} + \frac{5}{169}\sqrt{230}e^{23}$	$(-\frac{5}{169}, \frac{82}{169}, -\frac{10}{169}, -\frac{33}{169}, \frac{77}{169}, -\frac{15}{169}, -\frac{43}{169}, \frac{72}{169})$ $+ \frac{10}{169}\sqrt{345}e^2 \otimes e_7$	{128, 1457, 2568, 467}
841:11	$0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{1}{5}\sqrt{2}e^{13}, \frac{2}{5}\sqrt{2}e^{34},$ $\frac{2}{5}\sqrt{2}e^{15} + \frac{2}{5}\sqrt{2}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{5}\sqrt{3}e^1 \otimes e_7 + \frac{2}{5}e^3 \otimes e_4$	{123468, 13456}
841:11	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{53}e^{13}, \frac{20}{53}e^{34}, \frac{20}{53}e^{15} + \frac{5}{53}\sqrt{22}e^{23}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{25}{53}, \frac{5}{53}, -\frac{15}{53}, \frac{15}{53}, 0)$ $+ \frac{10}{53}\sqrt{10}e^2 \otimes e_6 + \frac{10}{53}\sqrt{13}e^4 \otimes e_8$	{128, 467}
841:11	$0, 0, 0, 0, \frac{2}{15}e^{12}, \frac{1}{15}\sqrt{6}e^{13}, \frac{1}{15}\sqrt{30}e^{34},$ $\frac{1}{15}\sqrt{30}e^{15} + \frac{2}{15}\sqrt{6}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{5}\sqrt{2}e^2 \otimes e_6 + \frac{2}{15}\sqrt{15}e^1 \otimes e_7$	{12348, 367}
841:11	$0, 0, 0, 0, \frac{30}{169}\sqrt{5}e^{12}, \frac{10}{169}\sqrt{115}e^{13}, \frac{40}{169}\sqrt{10}e^{34},$ $\frac{40}{169}\sqrt{10}e^{15} + \frac{5}{169}\sqrt{230}e^{23}$	$(-\frac{5}{169}, -\frac{10}{169}, -\frac{10}{169}, \frac{105}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{95}{169}, -\frac{20}{169})$ $+ \frac{10}{169}\sqrt{345}e^4 \otimes e_8$	{128, 1457, 2568, 467}
841:11	$0, 0, 0, 0, \frac{4}{37}\sqrt{3}e^{12}, \frac{1}{37}\sqrt{14}e^{13}, \frac{1}{37}\sqrt{62}e^{34},$ $\frac{4}{37}\sqrt{3}e^{15} + \frac{2}{37}\sqrt{13}e^{23}$	$(-\frac{1}{37}, \frac{5}{37}, -\frac{2}{37}, -\frac{1}{37}, \frac{4}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{3}{37})$ $- \frac{1}{37}\sqrt{42}e^4 \otimes e_6 + \frac{3}{37}\sqrt{10}e^1 \otimes e_7$	{12348, 1345, 235678, 367}
841:11	$0, 0, 0, 0, \frac{4}{37}\sqrt{3}e^{12}, \frac{1}{37}\sqrt{14}e^{13}, \frac{1}{37}\sqrt{62}e^{34},$ $\frac{4}{37}\sqrt{3}e^{15} + \frac{2}{37}\sqrt{13}e^{23}$	$(-\frac{1}{37}, \frac{5}{37}, -\frac{2}{37}, -\frac{1}{37}, \frac{4}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{3}{37})$ $+ \frac{1}{37}\sqrt{42}e^4 \otimes e_6 + \frac{3}{37}\sqrt{10}e^1 \otimes e_7$	{12348, 1345, 235678, 367}
841:11	$0, 0, 0, 0, \frac{6}{55}\sqrt{7}e^{12}, \frac{12}{55}e^{13}, \frac{6}{55}\sqrt{7}e^{34},$ $\frac{6}{55}\sqrt{6}e^{15} + \frac{3}{55}\sqrt{94}e^{23}$	$(\frac{3}{55}, \frac{12}{55}, \frac{6}{55}, -\frac{21}{55}, \frac{3}{11}, \frac{9}{55}, -\frac{3}{11}, \frac{18}{55})$ $+ \frac{6}{55}\sqrt{34}e^3 \otimes e_4 + \frac{6}{55}\sqrt{39}e^2 \otimes e_7$	{13578, 3678}
841:11	$0, 0, 0, 0, \frac{96}{1183}\sqrt{29}e^{12}, \frac{32}{1183}\sqrt{58}e^{13}, \frac{64}{1183}\sqrt{101}e^{34},$ $\frac{64}{1183}\sqrt{15}e^{15} + \frac{32}{1183}\sqrt{29}e^{23}$	$(-\frac{16}{169}, \frac{464}{1183}, -\frac{32}{169}, \frac{176}{1183}, \frac{352}{1183}, -\frac{48}{169}, -\frac{48}{1183}, \frac{240}{1183})$ $+ \frac{32}{1183}\sqrt{429}e^4 \otimes e_6 + \frac{96}{1183}\sqrt{67}e^2 \otimes e_7$	{1457, 2568}
841:11	$0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{2}{5}e^{13}, \frac{1}{10}\sqrt{10}e^{34}, \frac{1}{10}\sqrt{10}e^{15} + \frac{2}{5}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{5}\sqrt{5}e^3 \otimes e_4 + \frac{3}{10}\sqrt{2}e^2 \otimes e_6$	{146, 248}
841:11	$0, 0, 0, 0, \frac{6}{77}\sqrt{10}e^{12}, \frac{2}{77}\sqrt{115}e^{13}, \frac{1}{77}\sqrt{590}e^{34},$ $\frac{6}{77}\sqrt{10}e^{15} + \frac{1}{77}\sqrt{230}e^{23}$	$(-\frac{5}{77}, \frac{13}{77}, -\frac{10}{77}, \frac{13}{77}, \frac{8}{77}, -\frac{15}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{690}e^2 \otimes e_7 - \frac{1}{77}\sqrt{690}e^4 \otimes e_8$	{128, 1457, 2568, 467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:11	$0, 0, 0, 0, \frac{6}{77}\sqrt{10}e^{12}, \frac{2}{77}\sqrt{115}e^{13}, \frac{1}{77}\sqrt{590}e^{34},$ $\frac{6}{77}\sqrt{10}e^{15} + \frac{1}{77}\sqrt{230}e^{23}$	$(-\frac{5}{77}, \frac{13}{77}, -\frac{10}{77}, \frac{13}{77}, \frac{8}{77}, -\frac{15}{77}, \frac{3}{77}, \frac{3}{77})$ $+\frac{1}{77}\sqrt{690}e^2 \otimes e_7 + \frac{1}{77}\sqrt{690}e^4 \otimes e_8$	{128, 1457, 2568, 467}
841:11	$0, 0, 0, 0, \frac{1}{4}\sqrt{7}e^{12}, \frac{7}{8}e^{13}, \frac{1}{4}\sqrt{7}e^{34}, \frac{1}{4}\sqrt{7}e^{15} + \frac{7}{8}e^{23}$	$(\frac{3}{16}, -\frac{1}{16}, \frac{3}{8}, -\frac{1}{2}, \frac{1}{8}, \frac{9}{16}, -\frac{1}{8}, \frac{5}{16})$ $+\frac{7}{8}\sqrt{2}e^3 \otimes e_4$	{124568, 146, 248, 45}
841:12	$0, 0, 0, 0, \frac{5}{84}\sqrt{66}e^{12}, \frac{5}{84}\sqrt{141}e^{13}, \frac{5}{84}\sqrt{141}e^{14},$ $\frac{5}{84}\sqrt{102}e^{15} + \frac{5}{14}\sqrt{3}e^{34}$	$(-\frac{5}{84}, \frac{25}{84}, \frac{85}{168}, -\frac{55}{168}, \frac{5}{21}, \frac{25}{56}, -\frac{65}{168}, \frac{5}{28})$ $+\frac{5}{42}\sqrt{105}e^3 \otimes e_7$	{134, 167, 2368, 2478}
841:12	$0, 0, 0, 0, \frac{5}{224}\sqrt{82}e^{12}, \frac{5}{224}\sqrt{137}e^{13}, \frac{5}{224}\sqrt{137}e^{14},$ $\frac{5}{224}\sqrt{114}e^{15} + \frac{5}{56}\sqrt{6}e^{34}$	$(-\frac{25}{224}, \frac{55}{224}, \frac{5}{448}, \frac{5}{448}, \frac{15}{112}, -\frac{45}{448}, -\frac{45}{448}, \frac{5}{224})$ $+\frac{5}{224}\sqrt{210}e^3 \otimes e_7 + \frac{5}{224}\sqrt{210}e^4 \otimes e_6$	{134, 167, 2368}
841:12	$0, 0, 0, 0, \frac{5}{224}\sqrt{82}e^{12}, \frac{5}{224}\sqrt{137}e^{13}, \frac{5}{224}\sqrt{137}e^{14},$ $\frac{5}{224}\sqrt{114}e^{15} + \frac{5}{56}\sqrt{6}e^{34}$	$(-\frac{25}{224}, \frac{55}{224}, \frac{5}{448}, \frac{5}{448}, \frac{15}{112}, -\frac{45}{448}, -\frac{45}{448}, \frac{5}{224})$ $+\frac{5}{224}\sqrt{210}e^3 \otimes e_7 - \frac{5}{224}\sqrt{210}e^4 \otimes e_6$	{134, 167, 2368}
841:12	$0, 0, 0, 0, \frac{5}{84}\sqrt{66}e^{12}, \frac{5}{84}\sqrt{141}e^{13}, \frac{5}{84}\sqrt{141}e^{14},$ $\frac{5}{14}\sqrt{3}e^{15} + \frac{5}{84}\sqrt{102}e^{34}$	$(\frac{5}{14}, -\frac{15}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{5}{28}, \frac{25}{56}, \frac{25}{56}, \frac{5}{28})$ $+\frac{5}{42}\sqrt{105}e^1 \otimes e_2$	{1348, 1678, 236}
841:12	$0, 0, 0, 0, \frac{20}{371}\sqrt{14}e^{12}, \frac{5}{371}\sqrt{1526}e^{13}, \frac{10}{371}\sqrt{119}e^{14},$ $\frac{20}{371}\sqrt{42}e^{15} + \frac{10}{53}\sqrt{3}e^{34}$	$(-\frac{10}{53}, \frac{25}{53}, \frac{10}{53}, -\frac{5}{53}, \frac{15}{53}, 0, -\frac{15}{53}, \frac{5}{53})$ $+\frac{30}{371}\sqrt{70}e^3 \otimes e_7 + \frac{10}{371}\sqrt{21}e^2 \otimes e_6$	{1234, 368}
841:12	$0, 0, 0, 0, \frac{10}{259}\sqrt{407}e^{12}, \frac{5}{259}\sqrt{1562}e^{13}, \frac{10}{259}\sqrt{187}e^{14},$ $\frac{5}{259}\sqrt{66}e^{15} + \frac{5}{259}\sqrt{66}e^{34}$	$(-\frac{65}{259}, \frac{5}{7}, -\frac{25}{259}, \frac{80}{259}, \frac{120}{259}, -\frac{90}{259}, \frac{15}{259}, \frac{55}{259})$ $+\frac{10}{259}\sqrt{1155}e^2 \otimes e_6$	{1238, 156, 2458, 346}
841:13	$0, 0, 0, 0, \frac{2}{1161}\sqrt{116321}e^{12}, \frac{4}{1161}\sqrt{37715}e^{13}, \frac{14}{1161}\sqrt{794}e^{14},$ $\frac{2}{1161}\sqrt{176665}e^{25} + \frac{2}{1161}\sqrt{69078}e^{34}$	$(-\frac{370}{1161}, \frac{47}{129}, -\frac{1}{1161}, \frac{53}{129}, \frac{53}{1161}, -\frac{371}{1161}, \frac{107}{1161}, \frac{476}{1161})$ $+\frac{4}{1161}\sqrt{94883}e^2 \otimes e_6$	{123478, 1568, 245, 367}
841:13	$0, 0, 0, 0, \frac{32}{1261}\sqrt{131}e^{12}, \frac{32}{1261}\sqrt{370}e^{13}, \frac{32}{1261}\sqrt{47}e^{14},$ $\frac{96}{1261}\sqrt{31}e^{25} + \frac{96}{1261}\sqrt{3}e^{34}$	$(-\frac{384}{1261}, \frac{400}{1261}, \frac{272}{1261}, \frac{144}{1261}, \frac{16}{1261}, -\frac{112}{1261}, -\frac{240}{1261}, \frac{32}{97})$ $-\frac{32}{1261}\sqrt{451}e^3 \otimes e_7 + \frac{32}{1261}\sqrt{646}e^2 \otimes e_6$	{12348, 15678, 2457, 36}
841:13	$0, 0, 0, 0, \frac{32}{1261}\sqrt{131}e^{12}, \frac{32}{1261}\sqrt{370}e^{13}, \frac{32}{1261}\sqrt{47}e^{14},$ $\frac{96}{1261}\sqrt{31}e^{25} + \frac{96}{1261}\sqrt{3}e^{34}$	$(-\frac{384}{1261}, \frac{400}{1261}, \frac{272}{1261}, \frac{144}{1261}, \frac{16}{1261}, -\frac{112}{1261}, -\frac{240}{1261}, \frac{32}{97})$ $+\frac{32}{1261}\sqrt{451}e^3 \otimes e_7 + \frac{32}{1261}\sqrt{646}e^2 \otimes e_6$	{12348, 15678, 2457, 36}
841:13	$0, 0, 0, 0, \frac{10}{287}\sqrt{141}e^{12}, \frac{2}{287}\sqrt{9165}e^{13}, \frac{2}{287}\sqrt{9165}e^{14},$ $\frac{2}{287}\sqrt{141}e^{25} + \frac{4}{287}\sqrt{1833}e^{34}$	$(-\frac{50}{287}, \frac{79}{287}, \frac{170}{287}, -\frac{62}{287}, \frac{29}{287}, \frac{120}{287}, -\frac{16}{41}, \frac{108}{287})$ $+\frac{4}{287}\sqrt{8178}e^3 \otimes e_7$	{12345, 12567, 134, 167, 2368, 2478, 3568, 4578}
841:13	$0, 0, 0, 0, \frac{10}{287}\sqrt{141}e^{12}, \frac{2}{287}\sqrt{9165}e^{13}, \frac{2}{287}\sqrt{9165}e^{14},$ $\frac{2}{287}\sqrt{141}e^{25} + \frac{4}{287}\sqrt{1833}e^{34}$	$(-\frac{50}{287}, \frac{79}{287}, \frac{170}{287}, -\frac{62}{287}, \frac{29}{287}, \frac{120}{287}, -\frac{16}{41}, \frac{108}{287})$ $-\frac{4}{287}\sqrt{8178}e^3 \otimes e_7$	{12345, 12567, 134, 167, 2368, 2478, 3568, 4578}
841:14	$0, 0, 0, 0, \frac{12}{1007}\sqrt{2167}e^{12}, \frac{240}{1007}\sqrt{11}e^{13}, \frac{12}{53}\sqrt{11}e^{24},$ $\frac{36}{1007}\sqrt{143}e^{15} + \frac{132}{1007}\sqrt{11}e^{34}$	$(\frac{84}{1007}, \frac{6}{1007}, -\frac{351}{1007}, \frac{525}{1007}, \frac{90}{1007}, -\frac{267}{1007}, \frac{531}{1007}, \frac{174}{1007})$ $+\frac{36}{1007}\sqrt{1023}e^4 \otimes e_6$	{1347, 16, 23678, 248}
841:14	$0, 0, 0, 0, \frac{3}{3395}\sqrt{614}e^{12}, \frac{6}{3395}\sqrt{569}e^{13}, \frac{12}{3395}\sqrt{167}e^{24},$ $\frac{18}{3395}\sqrt{33}e^{15} + \frac{12}{3395}\sqrt{115}e^{34}$	$(-\frac{39}{3395}, \frac{12}{679}, \frac{18}{679}, -\frac{108}{3395}, \frac{3}{485}, \frac{51}{3395}, -\frac{48}{3395}, -\frac{18}{3395})$ $+\frac{18}{3395}\sqrt{94}e^1 \otimes e_7 + \frac{9}{3395}\sqrt{310}e^2 \otimes e_6$	{12348, 2578}
841:14	$0, 0, 0, 0, \frac{1}{119}\sqrt{210}e^{12}, \frac{1}{119}\sqrt{1722}e^{13}, \frac{2}{119}\sqrt{483}e^{24},$ $\frac{3}{119}\sqrt{70}e^{15} + \frac{2}{17}\sqrt{3}e^{34}$	$(\frac{3}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{1}{17}, \frac{1}{17}, 0, \frac{2}{17})$ $+\frac{1}{119}\sqrt{1974}e^4 \otimes e_6 + \frac{1}{119}\sqrt{2478}e^1 \otimes e_7$	{168, 2367}
841:14	$0, 0, 0, 0, \frac{48}{1055}\sqrt{59}e^{12}, \frac{48}{1055}\sqrt{146}e^{13}, \frac{24}{1055}\sqrt{818}e^{24},$ $\frac{72}{1055}\sqrt{78}e^{15} + \frac{48}{1055}\sqrt{145}e^{34}$	$(\frac{294}{1055}, -\frac{69}{211}, \frac{36}{211}, \frac{63}{1055}, -\frac{51}{1055}, \frac{474}{1055}, -\frac{282}{1055}, \frac{243}{1055})$ $+\frac{72}{1055}\sqrt{194}e^1 \otimes e_7$	{12348, 135, 2578, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:14	$0, 0, 0, 0, \frac{8}{509}\sqrt{123e^{12}}, \frac{8}{509}\sqrt{618e^{13}}, \frac{8}{509}\sqrt{573e^{24}},$ $\frac{24}{509}\sqrt{15e^{15}} + \frac{8}{509}\sqrt{69e^{34}}$	$(-\frac{72}{509}, \frac{124}{509}, \frac{100}{509}, -\frac{120}{509}, \frac{52}{509}, \frac{28}{509}, \frac{4}{509}, -\frac{20}{509})$ $+ \frac{8}{509}\sqrt{678e^2} \otimes e_6 - \frac{8}{509}\sqrt{705e^3} \otimes e_7$	{123458, 1467, 278, 356}
841:14	$0, 0, 0, 0, \frac{8}{509}\sqrt{123e^{12}}, \frac{8}{509}\sqrt{618e^{13}}, \frac{8}{509}\sqrt{573e^{24}},$ $\frac{24}{509}\sqrt{15e^{15}} + \frac{8}{509}\sqrt{69e^{34}}$	$(-\frac{72}{509}, \frac{124}{509}, \frac{100}{509}, -\frac{120}{509}, \frac{52}{509}, \frac{28}{509}, \frac{4}{509}, -\frac{20}{509})$ $+ \frac{8}{509}\sqrt{678e^2} \otimes e_6 + \frac{8}{509}\sqrt{705e^3} \otimes e_7$	{123458, 1467, 278, 356}
841:15	$0, 0, 0, 0, \frac{2}{377}\sqrt{7486e^{12}}, \frac{6}{377}\sqrt{266e^{13}}, \frac{2}{377}\sqrt{7486e^{34}},$ $\frac{2}{377}\sqrt{5738e^{14}} + \frac{8}{377}\sqrt{418e^{25}}$	$(\frac{71}{377}, \frac{4}{377}, -\frac{80}{377}, \frac{8}{377}, \frac{75}{377}, \frac{9}{377}, -\frac{72}{377}, \frac{79}{377})$ $+ \frac{38}{377}\sqrt{34e^2} \otimes e_7$	{123468, 14578, 2345, 467}
841:15	$0, 0, 0, 0, \frac{34}{1571}\sqrt{347e^{12}}, \frac{34}{1571}\sqrt{93e^{13}}, \frac{17}{1571}\sqrt{1506e^{34}},$ $\frac{34}{1571}\sqrt{251e^{14}} + \frac{68}{1571}\sqrt{79e^{25}}$	$(\frac{204}{1571}, \frac{68}{1571}, -\frac{357}{1571}, \frac{136}{1571}, \frac{272}{1571}, -\frac{153}{1571}, -\frac{221}{1571}, \frac{340}{1571})$ $+ \frac{136}{1571}\sqrt{37e^2} \otimes e_7 + \frac{17}{1571}\sqrt{354e^4} \otimes e_6$	{14578, 2345}
841:15	$0, 0, 0, 0, \frac{14}{443}\sqrt{35e^{12}}, \frac{14}{443}\sqrt{85e^{13}}, \frac{7}{443}\sqrt{410e^{34}},$ $\frac{7}{443}\sqrt{202e^{14}} + \frac{14}{443}\sqrt{69e^{25}}$	$(\frac{70}{443}, -\frac{49}{443}, \frac{70}{443}, -\frac{98}{443}, \frac{21}{443}, \frac{140}{443}, -\frac{28}{443}, -\frac{28}{443})$ $+ \frac{63}{443}\sqrt{10e^3} \otimes e_8 + \frac{7}{443}\sqrt{742e^1} \otimes e_7$	{1268, 1568, 23567, 367}
841:15	$0, 0, 0, 0, \frac{14}{443}\sqrt{35e^{12}}, \frac{14}{443}\sqrt{85e^{13}}, \frac{7}{443}\sqrt{410e^{34}},$ $\frac{7}{443}\sqrt{202e^{14}} + \frac{14}{443}\sqrt{69e^{25}}$	$(\frac{70}{443}, -\frac{49}{443}, \frac{70}{443}, -\frac{98}{443}, \frac{21}{443}, \frac{140}{443}, -\frac{28}{443}, -\frac{28}{443})$ $- \frac{63}{443}\sqrt{10e^3} \otimes e_8 + \frac{7}{443}\sqrt{742e^1} \otimes e_7$	{1268, 1568, 23567, 367}
841:15	$0, 0, 0, 0, \frac{36}{1151}\sqrt{391e^{12}}, \frac{36}{1151}\sqrt{354e^{13}}, \frac{36}{1151}\sqrt{74e^{34}},$ $\frac{72}{1151}\sqrt{94e^{14}} + \frac{36}{1151}\sqrt{509e^{25}}$	$(-\frac{169}{1151}, \frac{251}{1151}, -\frac{228}{1151}, \frac{502}{1151}, \frac{82}{1151}, -\frac{397}{1151}, \frac{274}{1151}, \frac{333}{1151})$ $+ \frac{36}{1151}\sqrt{951e^2} \otimes e_6$	{12348, 145678, 2457, 346}
841:15	$0, 0, 0, 0, \frac{30}{559}\sqrt{61e^{12}}, \frac{18}{559}\sqrt{427e^{13}}, \frac{3}{559}\sqrt{12322e^{34}},$ $\frac{6}{559}\sqrt{3965e^{14}} + \frac{12}{559}\sqrt{61e^{25}}$	$(-\frac{100}{559}, \frac{164}{559}, -\frac{121}{559}, \frac{328}{559}, \frac{64}{559}, -\frac{17}{559}, \frac{207}{559}, \frac{228}{559})$ $+ \frac{3}{559}\sqrt{55266e^4} \otimes e_6$	{12568, 168, 2367, 3567}
841:15	$0, 0, 0, 0, \frac{10}{197}\sqrt{167e^{12}}, \frac{5}{197}\sqrt{334e^{13}}, \frac{10}{197}\sqrt{167e^{34}},$ $\frac{2}{197}\sqrt{1837e^{14}} + \frac{2}{197}\sqrt{501e^{25}}$	$(\frac{100}{197}, -\frac{16}{197}, -\frac{35}{197}, -\frac{32}{197}, \frac{84}{197}, \frac{65}{197}, -\frac{67}{197}, \frac{68}{197})$ $+ \frac{1}{197}\sqrt{52438e^1} \otimes e_7$	{1268, 1568, 23567, 367}
841:15	$0, 0, 0, 0, \frac{42}{589}\sqrt{14e^{12}}, \frac{252}{589}\sqrt{2e^{13}}, \frac{42}{589}\sqrt{65e^{34}},$ $\frac{21}{589}\sqrt{110e^{14}} + \frac{42}{589}\sqrt{89e^{25}}$	$(-\frac{56}{589}, -\frac{35}{589}, \frac{315}{589}, -\frac{70}{589}, -\frac{91}{589}, \frac{259}{589}, \frac{245}{589}, -\frac{126}{589})$ $+ \frac{42}{589}\sqrt{237e^3} \otimes e_8$	{12345, 134, 2478, 4578}
841:15	$0, 0, 0, 0, \frac{4}{29}\sqrt{2e^{12}}, \frac{1}{29}\sqrt{82e^{13}}, \frac{7}{29}\sqrt{2e^{34}},$ $\frac{2}{29}\sqrt{22e^{14}} + \frac{2}{29}\sqrt{3e^{25}}$	$(\frac{4}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{4}{29}, \frac{6}{29}, -\frac{4}{29}, -\frac{4}{29}, \frac{8}{29})$ $+ \frac{1}{29}\sqrt{214e^1} \otimes e_7 + \frac{3}{29}\sqrt{22e^4} \otimes e_6$	{1234, 1345, 24578, 478}
841:15	$0, 0, 0, 0, \frac{4}{29}\sqrt{2e^{12}}, \frac{1}{29}\sqrt{82e^{13}}, \frac{7}{29}\sqrt{2e^{34}},$ $\frac{2}{29}\sqrt{22e^{14}} + \frac{2}{29}\sqrt{3e^{25}}$	$(\frac{4}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{4}{29}, \frac{6}{29}, -\frac{4}{29}, -\frac{4}{29}, \frac{8}{29})$ $+ \frac{1}{29}\sqrt{214e^1} \otimes e_7 - \frac{3}{29}\sqrt{22e^4} \otimes e_6$	{1234, 1345, 24578, 478}
841:15	$0, 0, 0, 0, \frac{98}{467}e^{12}, \frac{7}{467}\sqrt{458e^{13}}, \frac{42}{467}\sqrt{10e^{34}},$ $\frac{7}{467}\sqrt{330e^{14}} + \frac{112}{467}e^{25}$	$(-\frac{98}{467}, \frac{35}{467}, \frac{70}{467}, \frac{70}{467}, -\frac{63}{467}, -\frac{28}{467}, \frac{140}{467}, -\frac{28}{467})$ $+ \frac{7}{467}\sqrt{770e^4} \otimes e_6 + \frac{7}{467}\sqrt{898e^3} \otimes e_8$	{12345, 134, 2478, 4578}
841:15	$0, 0, 0, 0, \frac{98}{467}e^{12}, \frac{7}{467}\sqrt{458e^{13}}, \frac{42}{467}\sqrt{10e^{34}},$ $\frac{7}{467}\sqrt{330e^{14}} + \frac{112}{467}e^{25}$	$(-\frac{98}{467}, \frac{35}{467}, \frac{70}{467}, \frac{70}{467}, -\frac{63}{467}, -\frac{28}{467}, \frac{140}{467}, -\frac{28}{467})$ $- \frac{7}{467}\sqrt{770e^4} \otimes e_6 + \frac{7}{467}\sqrt{898e^3} \otimes e_8$	{12345, 134, 2478, 4578}
841:15	$0, 0, 0, 0, \frac{14}{1013}\sqrt{231e^{12}}, \frac{7}{1013}\sqrt{1758e^{13}}, \frac{35}{1013}\sqrt{30e^{34}},$ $\frac{7}{1013}\sqrt{870e^{14}} + \frac{14}{1013}\sqrt{579e^{25}}$	$(-\frac{182}{1013}, \frac{70}{1013}, \frac{105}{1013}, \frac{140}{1013}, -\frac{112}{1013}, -\frac{77}{1013}, \frac{245}{1013}, -\frac{42}{1013})$ $+ \frac{7}{1013}\sqrt{2418e^3} \otimes e_8 + \frac{98}{1013}\sqrt{15e^2} \otimes e_6$	{145678, 346}
841:15	$0, 0, 0, 0, \frac{14}{2423}\sqrt{399e^{12}}, \frac{7}{2423}\sqrt{174e^{13}}, \frac{7}{2423}\sqrt{2066e^{34}},$ $\frac{7}{2423}\sqrt{1178e^{14}} + \frac{14}{2423}\sqrt{502e^{25}}$	$(\frac{154}{2423}, -\frac{84}{2423}, \frac{35}{2423}, -\frac{168}{2423}, \frac{70}{2423}, \frac{189}{2423}, -\frac{133}{2423}, -\frac{14}{2423})$ $+ \frac{14}{2423}\sqrt{721e^2} \otimes e_7 + \frac{7}{2423}\sqrt{1410e^3} \otimes e_8$	{14578, 2345}
841:15	$0, 0, 0, 0, \frac{50}{2947}\sqrt{447e^{12}}, \frac{25}{2947}\sqrt{1390e^{13}}, \frac{50}{2947}\sqrt{199e^{34}},$ $\frac{50}{2947}\sqrt{215e^{14}} + \frac{25}{2947}\sqrt{381e^{25}}$	$(\frac{300}{2947}, \frac{200}{2947}, -\frac{725}{2947}, \frac{400}{2947}, \frac{500}{2947}, -\frac{425}{2947}, -\frac{325}{2947}, \frac{100}{421})$ $+ \frac{100}{2947}\sqrt{186e^2} \otimes e_6 + \frac{25}{2947}\sqrt{2182e^1} \otimes e_7$	{12348, 2457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:16	$0, 0, 0, 0, \frac{4}{101}\sqrt{3e^{12}}, \frac{1}{505}\sqrt{366e^{13}}, \frac{2}{505}\sqrt{366e^{34}}, \frac{2}{505}\sqrt{366e^{15}} + \frac{2}{505}\sqrt{249e^{24}}$	$(-\frac{2}{101}, \frac{24}{505}, \frac{7}{505}, -\frac{4}{101}, \frac{14}{505}, -\frac{3}{505}, -\frac{13}{505}, \frac{4}{505}) + \frac{3}{505}\sqrt{210e^1} \otimes e_7 + \frac{6}{505}\sqrt{22e^3} \otimes e_8$	{13456, 245678}
841:16	$0, 0, 0, 0, \frac{2}{85}\sqrt{330e^{12}}, \frac{2}{85}\sqrt{759e^{13}}, \frac{2}{85}\sqrt{429e^{34}}, \frac{2}{85}\sqrt{429e^{15}} + \frac{2}{85}\sqrt{759e^{24}}$	$(-\frac{2}{17}, \frac{3}{85}, \frac{49}{85}, -\frac{4}{17}, -\frac{7}{85}, \frac{39}{85}, \frac{29}{85}, -\frac{1}{5}) + \frac{6}{85}\sqrt{253e^3} \otimes e_8$	{12345, 14678, 2346, 4578}
841:16	$0, 0, 0, 0, \frac{2}{17}\sqrt{3e^{12}}, \frac{4}{17}\sqrt{3e^{13}}, \frac{1}{17}\sqrt{15e^{34}}, \frac{1}{17}\sqrt{15e^{15}} + \frac{4}{17}\sqrt{3e^{24}}$	$(-\frac{2}{17}, \frac{4}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{1}{17}, 0) + \frac{1}{17}\sqrt{42e^3} \otimes e_8 + \frac{1}{17}\sqrt{51e^2} \otimes e_6$	{278, 356}
841:16	$0, 0, 0, 0, \frac{42}{473}e^{12}, \frac{168}{473}e^{13}, \frac{7}{473}\sqrt{438e^{34}}, \frac{14}{473}\sqrt{102e^{15}} + \frac{14}{473}\sqrt{237e^{24}}$	$(\frac{28}{473}, \frac{84}{473}, -\frac{119}{473}, \frac{56}{473}, \frac{112}{473}, -\frac{91}{473}, -\frac{63}{473}, \frac{140}{473}) + \frac{21}{473}\sqrt{158e^4} \otimes e_6 + \frac{42}{473}\sqrt{31e^2} \otimes e_7$	{12568, 3567}
841:16	$0, 0, 0, 0, \frac{2}{25}\sqrt{30e^{12}}, \frac{1}{25}\sqrt{78e^{13}}, \frac{2}{25}\sqrt{33e^{34}}, \frac{2}{25}\sqrt{33e^{15}} + \frac{2}{25}\sqrt{33e^{24}}$	$(\frac{2}{25}, 0, -\frac{1}{5}, \frac{4}{25}, \frac{2}{25}, -\frac{3}{25}, -\frac{1}{25}, \frac{4}{25}) + \frac{6}{25}e^2 \otimes e_6 + \frac{9}{25}\sqrt{2e^1} \otimes e_7$	{123468, 245678}
841:16	$0, 0, 0, 0, \frac{1}{21}\sqrt{78e^{12}}, \frac{2}{7}e^{13}, \frac{1}{21}\sqrt{78e^{34}}, \frac{1}{21}\sqrt{78e^{15}} + \frac{2}{7}\sqrt{2e^{24}}$	$(\frac{1}{21}, \frac{2}{21}, -\frac{4}{21}, \frac{2}{21}, \frac{1}{7}, -\frac{1}{7}, -\frac{2}{21}, \frac{4}{21}) + \frac{2}{7}\sqrt{3e^1} \otimes e_7$	{123468, 13456, 245678, 467}
841:16	$0, 0, 0, 0, \frac{6}{745}\sqrt{330e^{12}}, \frac{6}{745}\sqrt{534e^{13}}, \frac{3}{745}\sqrt{66e^{34}}, \frac{18}{745}\sqrt{19e^{15}} + \frac{6}{745}\sqrt{534e^{24}}$	$(\frac{6}{149}, -\frac{84}{745}, \frac{3}{745}, \frac{12}{149}, -\frac{54}{745}, \frac{33}{745}, \frac{63}{745}, -\frac{24}{745}) + \frac{18}{745}\sqrt{53e^3} \otimes e_8 + \frac{9}{149}\sqrt{10e^4} \otimes e_6$	{12568, 3567}
841:16	$0, 0, 0, 0, \frac{2}{19}\sqrt{6e^{12}}, \frac{2}{19}\sqrt{66e^{13}}, \frac{2}{19}\sqrt{39e^{34}}, \frac{2}{19}\sqrt{39e^{15}} + \frac{2}{19}\sqrt{66e^{24}}$	$(-\frac{1}{19}, \frac{9}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{8}{19}, -\frac{3}{19}, -\frac{4}{19}, \frac{7}{19}) + \frac{6}{19}\sqrt{11e^2} \otimes e_6$	{12358, 167, 278, 356}
841:16	$0, 0, 0, 0, \frac{2}{19}\sqrt{39e^{12}}, \frac{2}{19}\sqrt{66e^{13}}, \frac{2}{19}\sqrt{6e^{34}}, \frac{2}{19}\sqrt{39e^{15}} + \frac{2}{19}\sqrt{66e^{24}}$	$(\frac{9}{38}, -\frac{2}{19}, -\frac{15}{38}, \frac{9}{19}, \frac{5}{38}, -\frac{3}{19}, \frac{3}{38}, \frac{7}{19}) + \frac{6}{19}\sqrt{11e^4} \otimes e_6$	{125678, 167, 2368, 356}
841:16	$0, 0, 0, 0, \frac{2}{25}\sqrt{33e^{12}}, \frac{1}{25}\sqrt{78e^{13}}, \frac{2}{25}\sqrt{30e^{34}}, \frac{2}{25}\sqrt{33e^{15}} + \frac{2}{25}\sqrt{33e^{24}}$	$(0, \frac{4}{25}, -\frac{3}{25}, 0, \frac{4}{25}, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}) + \frac{6}{25}e^4 \otimes e_6 + \frac{9}{25}\sqrt{2e^1} \otimes e_7$	{123468, 13456, 245678, 467}
841:16	$0, 0, 0, 0, \frac{2}{25}\sqrt{33e^{12}}, \frac{1}{25}\sqrt{78e^{13}}, \frac{2}{25}\sqrt{30e^{34}}, \frac{2}{25}\sqrt{33e^{15}} + \frac{2}{25}\sqrt{33e^{24}}$	$(0, \frac{4}{25}, -\frac{3}{25}, 0, \frac{4}{25}, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}) - \frac{6}{25}e^4 \otimes e_6 + \frac{9}{25}\sqrt{2e^1} \otimes e_7$	{123468, 13456, 245678, 467}
841:17	$0, 0, 0, 0, \frac{10}{59}\sqrt{6e^{12}}, \frac{10}{59}\sqrt{6e^{13}}, \frac{5}{59}\sqrt{66e^{23}}, \frac{10}{59}\sqrt{15e^{14}} + \frac{20}{59}\sqrt{2e^{25}}$	$(0, \frac{10}{59}, -\frac{15}{59}, \frac{20}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{5}{59}, \frac{20}{59}) + \frac{10}{59}\sqrt{22e^4} \otimes e_7 + \frac{15}{59}\sqrt{2e^2} \otimes e_6$	{12578, 13678}
841:17	$0, 0, 0, 0, \frac{2}{21}\sqrt{6e^{12}}, \frac{1}{21}\sqrt{114e^{13}}, \frac{1}{21}\sqrt{6e^{23}}, \frac{1}{21}\sqrt{6e^{14}} + \frac{2}{7}\sqrt{2e^{25}}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7}) + \frac{2}{7}\sqrt{5e^3} \otimes e_8 + \frac{5}{21}\sqrt{6e^1} \otimes e_4$	{12678, 1568}
841:17	$0, 0, 0, 0, \frac{14}{65}\sqrt{6e^{12}}, \frac{14}{65}\sqrt{6e^{13}}, \frac{6}{65}\sqrt{70e^{23}}, \frac{6}{65}\sqrt{70e^{14}} + \frac{28}{65}\sqrt{2e^{25}}$	$(\frac{3}{65}, \frac{2}{13}, -\frac{18}{65}, \frac{4}{13}, \frac{1}{5}, -\frac{3}{13}, -\frac{8}{65}, \frac{23}{65}) + \frac{2}{65}\sqrt{826e^4} \otimes e_7$	{12578, 13678, 267, 357}
841:17	$0, 0, 0, 0, \frac{4}{61}\sqrt{66e^{12}}, \frac{2}{61}\sqrt{286e^{13}}, \frac{2}{61}\sqrt{374e^{23}}, \frac{2}{61}\sqrt{374e^{14}} + \frac{6}{61}\sqrt{22e^{25}}$	$(-\frac{7}{61}, -\frac{3}{61}, \frac{31}{61}, -\frac{6}{61}, -\frac{10}{61}, \frac{24}{61}, \frac{28}{61}, -\frac{13}{61}) + \frac{20}{61}\sqrt{11e^3} \otimes e_8$	{12345, 1347, 2478, 458}
841:17	$0, 0, 0, 0, \frac{152}{2219}\sqrt{6e^{12}}, \frac{38}{2219}\sqrt{322e^{13}}, \frac{285}{2219}\sqrt{2e^{23}}, \frac{38}{2219}\sqrt{65e^{14}} + \frac{38}{2219}\sqrt{354e^{25}}$	$(-\frac{456}{2219}, \frac{190}{2219}, \frac{285}{2219}, \frac{380}{2219}, -\frac{38}{317}, -\frac{171}{2219}, \frac{475}{2219}, -\frac{76}{2219}) + \frac{19}{2219}\sqrt{2130e^2} \otimes e_6 + \frac{76}{2219}\sqrt{113e^3} \otimes e_8$	{14568, 3467}
841:17	$0, 0, 0, 0, \frac{1}{24}\sqrt{399e^{12}}, \frac{1}{24}\sqrt{399e^{13}}, \frac{7}{24}\sqrt{6e^{23}}, \frac{7}{24}\sqrt{6e^{14}} + \frac{1}{4}\sqrt{7e^{25}}$	$(\frac{1}{2}, -\frac{3}{16}, \frac{1}{16}, -\frac{3}{8}, \frac{5}{16}, \frac{9}{16}, -\frac{1}{8}, \frac{1}{8}) + \frac{1}{12}\sqrt{210e^1} \otimes e_4$	{234567, 245, 346, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:17	$0, 0, 0, 0, \frac{58}{2731}\sqrt{53}e^{12}, \frac{29}{2731}\sqrt{898}e^{13}, \frac{116}{2731}\sqrt{70}e^{23},$ $\frac{58}{2731}\sqrt{465}e^{14} + \frac{58}{2731}\sqrt{201}e^{25}$	$(\frac{348}{2731}, \frac{232}{2731}, -\frac{725}{2731}, \frac{464}{2731}, \frac{580}{2731}, -\frac{377}{2731}, -\frac{493}{2731}, \frac{812}{2731})$ $+ \frac{29}{2731}\sqrt{2674}e^1 \otimes e_7 + \frac{58}{2731}\sqrt{555}e^4 \otimes e_6$	{168, 3567}
841:17	$0, 0, 0, 0, \frac{6}{59}e^{12}, \frac{1}{59}\sqrt{13}e^{13}, \frac{8}{59}e^{23}, \frac{8}{59}e^{14} + \frac{5}{59}e^{25}$	$(-\frac{4}{59}, \frac{2}{59}, \frac{1}{59}, \frac{4}{59}, -\frac{2}{59}, -\frac{3}{59}, \frac{3}{59}, 0)$ $+ \frac{1}{59}\sqrt{46}e^3 \otimes e_8 + \frac{1}{59}\sqrt{65}e^4 \otimes e_7$	{12578, 357}
841:17	$0, 0, 0, 0, \frac{14}{913}\sqrt{114}e^{12}, \frac{63}{913}\sqrt{10}e^{13}, \frac{14}{913}\sqrt{438}e^{23},$ $\frac{14}{913}\sqrt{438}e^{14} + \frac{14}{913}\sqrt{33}e^{25}$	$(\frac{140}{913}, -\frac{98}{913}, \frac{91}{913}, -\frac{196}{913}, \frac{42}{913}, \frac{21}{83}, -\frac{7}{913}, -\frac{56}{913})$ $+ \frac{14}{913}\sqrt{633}e^3 \otimes e_8 + \frac{14}{913}\sqrt{2370}e^1 \otimes e_7$	{168, 3567}
841:17	$0, 0, 0, 0, \frac{1}{76}\sqrt{793}e^{12}, \frac{1}{76}\sqrt{793}e^{13}, \frac{5}{76}\sqrt{122}e^{23},$ $\frac{5}{76}\sqrt{122}e^{14} + \frac{1}{38}\sqrt{366}e^{25}$	$(\frac{1}{2}, -\frac{11}{152}, -\frac{35}{152}, -\frac{11}{76}, \frac{65}{152}, \frac{41}{152}, -\frac{23}{76}, \frac{27}{76})$ $+ \frac{1}{38}\sqrt{1891}e^1 \otimes e_7$	{1234, 1456, 24578, 34678}
841:17	$0, 0, 0, 0, \frac{91}{701}\sqrt{6}e^{12}, \frac{13}{701}\sqrt{337}e^{13}, \frac{65}{701}\sqrt{10}e^{23},$ $\frac{13}{701}\sqrt{435}e^{14} + \frac{39}{701}\sqrt{6}e^{25}$	$(-\frac{169}{701}, \frac{65}{701}, \frac{130}{701}, \frac{130}{701}, -\frac{104}{701}, -\frac{39}{701}, \frac{195}{701}, -\frac{39}{701})$ $+ \frac{13}{701}\sqrt{555}e^4 \otimes e_6 + \frac{13}{701}\sqrt{707}e^3 \otimes e_8$	{12345, 1347, 2478, 458}
841:17	$0, 0, 0, 0, \frac{91}{701}\sqrt{6}e^{12}, \frac{13}{701}\sqrt{337}e^{13}, \frac{65}{701}\sqrt{10}e^{23},$ $\frac{13}{701}\sqrt{435}e^{14} + \frac{39}{701}\sqrt{6}e^{25}$	$(-\frac{169}{701}, \frac{65}{701}, \frac{130}{701}, \frac{130}{701}, -\frac{104}{701}, -\frac{39}{701}, \frac{195}{701}, -\frac{39}{701})$ $- \frac{13}{701}\sqrt{555}e^4 \otimes e_6 + \frac{13}{701}\sqrt{707}e^3 \otimes e_8$	{12345, 1347, 2478, 458}
841:17	$0, 0, 0, 0, \frac{22}{523}\sqrt{61}e^{12}, \frac{22}{523}\sqrt{61}e^{13}, \frac{11}{523}\sqrt{122}e^{23},$ $\frac{22}{523}\sqrt{13}e^{14} + \frac{88}{523}\sqrt{3}e^{25}$	$(\frac{44}{523}, \frac{44}{523}, -\frac{121}{523}, \frac{88}{523}, \frac{88}{523}, -\frac{77}{523}, -\frac{77}{523}, \frac{132}{523})$ $+ \frac{220}{523}e^1 \otimes e_7 - \frac{33}{523}\sqrt{58}e^2 \otimes e_6$	{12348, 14568, 2457, 3467}
841:17	$0, 0, 0, 0, \frac{22}{523}\sqrt{61}e^{12}, \frac{22}{523}\sqrt{61}e^{13}, \frac{11}{523}\sqrt{122}e^{23},$ $\frac{22}{523}\sqrt{13}e^{14} + \frac{88}{523}\sqrt{3}e^{25}$	$(\frac{44}{523}, \frac{44}{523}, -\frac{121}{523}, \frac{88}{523}, \frac{88}{523}, -\frac{77}{523}, -\frac{77}{523}, \frac{132}{523})$ $+ \frac{220}{523}e^1 \otimes e_7 + \frac{33}{523}\sqrt{58}e^2 \otimes e_6$	{12348, 14568, 2457, 3467}
841:17	$0, 0, 0, 0, \frac{6}{227}\sqrt{559}e^{12}, \frac{6}{227}\sqrt{559}e^{13}, \frac{1}{227}\sqrt{2838}e^{23},$ $\frac{6}{227}\sqrt{4773}e^{14} + \frac{4}{227}\sqrt{1677}e^{25}$	$(-\frac{44}{227}, \frac{56}{227}, -\frac{29}{227}, \frac{112}{227}, \frac{12}{227}, -\frac{73}{227}, \frac{27}{227}, \frac{68}{227})$ $+ \frac{9}{227}\sqrt{602}e^2 \otimes e_6$	{123478, 145678, 245, 346}
841:17	$0, 0, 0, 0, \frac{2}{231}\sqrt{534}e^{12}, \frac{2}{231}\sqrt{534}e^{13}, \frac{2}{231}\sqrt{258}e^{23},$ $\frac{4}{231}\sqrt{123}e^{14} + \frac{2}{77}\sqrt{58}e^{25}$	$(\frac{6}{77}, \frac{1}{77}, -\frac{9}{77}, \frac{2}{77}, \frac{1}{11}, -\frac{3}{77}, -\frac{8}{77}, \frac{8}{77})$ $+ \frac{2}{231}\sqrt{570}e^1 \otimes e_4 + \frac{2}{77}\sqrt{78}e^2 \otimes e_6$	{245, 346}
841:17	$0, 0, 0, 0, \frac{12}{125}\sqrt{33}e^{12}, \frac{66}{125}\sqrt{2}e^{13}, \frac{2}{125}\sqrt{330}e^{23},$ $\frac{6}{125}\sqrt{286}e^{14} + \frac{2}{125}\sqrt{462}e^{25}$	$(-\frac{31}{125}, \frac{43}{125}, -\frac{3}{25}, \frac{86}{125}, \frac{12}{125}, -\frac{46}{125}, \frac{28}{125}, \frac{11}{25})$ $+ \frac{12}{125}\sqrt{187}e^4 \otimes e_6$	{125678, 168, 236, 3567}
841:18	$0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{2}{35}\sqrt{35}e^{14},$ $\frac{2}{35}\sqrt{35}e^{15} + \frac{2}{35}\sqrt{21}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{42}e^2 \otimes e_6 + \frac{2}{35}\sqrt{70}e^1 \otimes e_4$	{1238, 346}
841:18	$0, 0, 0, 0, \frac{3}{77}\sqrt{6}e^{12}, \frac{1}{77}\sqrt{46}e^{13}, \frac{6}{77}\sqrt{2}e^{14},$ $\frac{3}{77}\sqrt{6}e^{15} + \frac{2}{77}\sqrt{13}e^{23}$	$(-\frac{1}{77}, \frac{5}{77}, -\frac{2}{77}, -\frac{2}{77}, \frac{4}{77}, -\frac{3}{77}, -\frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{86}e^3 \otimes e_7 + \frac{2}{77}\sqrt{15}e^4 \otimes e_6$	{125678, 167, 2478, 457}
841:18	$0, 0, 0, 0, \frac{3}{77}\sqrt{6}e^{12}, \frac{1}{77}\sqrt{46}e^{13}, \frac{6}{77}\sqrt{2}e^{14},$ $\frac{3}{77}\sqrt{6}e^{15} + \frac{2}{77}\sqrt{13}e^{23}$	$(-\frac{1}{77}, \frac{5}{77}, -\frac{2}{77}, -\frac{2}{77}, \frac{4}{77}, -\frac{3}{77}, -\frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{86}e^3 \otimes e_7 - \frac{2}{77}\sqrt{15}e^4 \otimes e_6$	{125678, 167, 2478, 457}
841:18	$0, 0, 0, 0, \frac{3}{29}\sqrt{2}e^{12}, \frac{1}{29}\sqrt{2}e^{13}, \frac{2}{29}\sqrt{7}e^{14},$ $\frac{1}{29}\sqrt{10}e^{15} + \frac{2}{29}\sqrt{7}e^{23}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{2}{29}, 0, -\frac{2}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{1}{29})$ $+ \frac{1}{29}\sqrt{30}e^3 \otimes e_7 + \frac{2}{29}\sqrt{6}e^4 \otimes e_8$	{125678, 457}
841:18	$0, 0, 0, 0, \frac{4}{7}e^{12}, \frac{2}{7}e^{13}, \frac{1}{7}\sqrt{5}e^{14}, \frac{2}{7}\sqrt{3}e^{15} + \frac{1}{7}\sqrt{5}e^{23}$	$(\frac{1}{14}, \frac{1}{7}, \frac{1}{7}, -\frac{5}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{7}\sqrt{3}e^2 \otimes e_7 + \frac{5}{7}e^1 \otimes e_4$	{1238, 234568}
841:18	$0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}e^{13}, \frac{1}{4}\sqrt{6}e^{14}, \frac{1}{2}\sqrt{2}e^{15} + \frac{1}{4}\sqrt{6}e^{23}$	$(\frac{1}{8}, 0, \frac{1}{4}, -\frac{3}{8}, \frac{1}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{14}e^1 \otimes e_4$	{1238, 135, 234568, 346}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:18	$0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{2}{35}\sqrt{35}e^{14},$ $\frac{2}{35}\sqrt{35}e^{15} + \frac{2}{5}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{42}e^2 \otimes e_6 + \frac{2}{35}\sqrt{70}e^3 \otimes e_7$	{167, 2478}
841:18	$0, 0, 0, 0, \frac{4}{77}\sqrt{7}e^{12}, \frac{2}{77}\sqrt{14}e^{13}, \frac{2}{77}\sqrt{434}e^{14},$ $\frac{2}{77}\sqrt{210}e^{15} + \frac{2}{11}\sqrt{6}e^{23}$	$(-\frac{1}{11}, \frac{4}{11}, -\frac{2}{11}, \frac{1}{11}, \frac{3}{11}, -\frac{3}{11}, 0, \frac{2}{11})$ $+ \frac{2}{77}\sqrt{546}e^2 \otimes e_7 + \frac{4}{77}\sqrt{105}e^4 \otimes e_6$	{167, 457}
841:18	$0, 0, 0, 0, \frac{8}{155}\sqrt{151}e^{12}, \frac{1}{155}\sqrt{11174}e^{13}, \frac{2}{155}\sqrt{755}e^{14},$ $\frac{2}{155}\sqrt{755}e^{15} + \frac{8}{155}\sqrt{151}e^{23}$	$(-\frac{4}{31}, \frac{91}{155}, -\frac{8}{31}, \frac{39}{155}, \frac{71}{155}, -\frac{12}{31}, \frac{19}{155}, \frac{51}{155})$ $+ \frac{6}{155}\sqrt{1057}e^2 \otimes e_6$	{123, 12347, 3468, 3678}
841:18	$0, 0, 0, 0, \frac{1}{74}\sqrt{2117}e^{12}, \frac{1}{74}\sqrt{3431}e^{13}, \frac{1}{74}\sqrt{3869}e^{14},$ $\frac{1}{74}\sqrt{2117}e^{15} + \frac{1}{37}\sqrt{219}e^{23}$	$(-\frac{17}{148}, \frac{21}{74}, -\frac{17}{74}, \frac{95}{148}, \frac{25}{148}, -\frac{51}{148}, \frac{39}{74}, \frac{2}{37})$ $+ \frac{1}{74}\sqrt{8979}e^4 \otimes e_6$	{125678, 167, 2478, 457}
841:18	$0, 0, 0, 0, \frac{8}{61}\sqrt{11}e^{12}, \frac{2}{61}\sqrt{286}e^{13}, \frac{10}{61}\sqrt{22}e^{14},$ $\frac{6}{61}\sqrt{22}e^{15} + \frac{10}{61}\sqrt{22}e^{23}$	$(-\frac{1}{61}, \frac{28}{61}, -\frac{2}{61}, \frac{15}{61}, \frac{27}{61}, -\frac{3}{61}, -\frac{16}{61}, \frac{26}{61})$ $+ \frac{2}{61}\sqrt{1122}e^2 \otimes e_7$	{12346, 135678, 235, 3478}
841:18	$0, 0, 0, 0, \frac{29}{1919}\sqrt{30}e^{12}, \frac{29}{1919}\sqrt{106}e^{13}, \frac{58}{1919}\sqrt{201}e^{14},$ $\frac{58}{1919}\sqrt{38}e^{15} + \frac{203}{1919}\sqrt{26}e^{23}$	$(-\frac{174}{1919}, \frac{319}{1919}, -\frac{348}{1919}, \frac{812}{1919}, \frac{145}{1919}, -\frac{522}{1919}, \frac{638}{1919}, -\frac{29}{1919})$ $+ \frac{29}{1919}\sqrt{1410}e^2 \otimes e_6 + \frac{58}{1919}\sqrt{489}e^4 \otimes e_8$	{13678, 2347}
841:18	$0, 0, 0, 0, \frac{1}{37}\sqrt{6}e^{12}, \frac{3}{37}\sqrt{6}e^{13}, \frac{4}{37}\sqrt{6}e^{14},$ $\frac{1}{37}\sqrt{6}e^{15} + \frac{4}{37}\sqrt{6}e^{23}$	$(-\frac{2}{37}, \frac{5}{37}, -\frac{4}{37}, \frac{4}{37}, \frac{3}{37}, -\frac{6}{37}, \frac{2}{37}, \frac{1}{37})$ $+ \frac{1}{37}\sqrt{102}e^2 \otimes e_7 + \frac{1}{37}\sqrt{102}e^4 \otimes e_8$	{268, 4567}
841:18	$0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{2}e^{13}, \frac{1}{2}\sqrt{2}e^{14}, \frac{1}{4}\sqrt{6}e^{15} + \frac{1}{2}\sqrt{2}e^{23}$	$(\frac{1}{8}, 0, \frac{1}{4}, -\frac{3}{8}, \frac{1}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{14}e^3 \otimes e_7$	{125678, 167, 2478, 457}
841:18	$0, 0, 0, 0, \frac{6}{61}\sqrt{22}e^{12}, \frac{2}{61}\sqrt{286}e^{13}, \frac{10}{61}\sqrt{22}e^{14},$ $\frac{8}{61}\sqrt{11}e^{15} + \frac{10}{61}\sqrt{22}e^{23}$	$(-\frac{1}{61}, -\frac{6}{61}, -\frac{2}{61}, \frac{36}{61}, -\frac{7}{61}, -\frac{3}{61}, \frac{35}{61}, -\frac{8}{61})$ $+ \frac{2}{61}\sqrt{1122}e^4 \otimes e_8$	{123456, 13678, 2347, 358}
841:19	$0, 0, 0, 0, \frac{2}{27}\sqrt{23}e^{12}, \frac{2}{27}\sqrt{23}e^{13}, \frac{4}{27}\sqrt{23}e^{14},$ $\frac{4}{27}\sqrt{23}e^{15} + \frac{1}{27}\sqrt{230}e^{23}$	$(\frac{1}{27}, -\frac{2}{9}, \frac{2}{27}, \frac{19}{27}, -\frac{5}{27}, \frac{1}{9}, \frac{13}{27}, -\frac{4}{27})$ $+ \frac{2}{27}\sqrt{253}e^4 \otimes e_8$	{123456, 1368, 234, 358}
841:19	$0, 0, 0, 0, \frac{1}{86}\sqrt{2867}e^{12}, \frac{1}{86}\sqrt{4209}e^{13}, \frac{1}{43}\sqrt{915}e^{14},$ $\frac{3}{86}\sqrt{183}e^{15} + \frac{1}{86}\sqrt{2379}e^{23}$	$(\frac{8}{43}, -\frac{25}{172}, \frac{16}{43}, -\frac{33}{172}, \frac{7}{172}, \frac{24}{43}, -\frac{29}{86}, \frac{39}{172})$ $+ \frac{1}{86}\sqrt{8845}e^3 \otimes e_7$	{125678, 1467, 278, 457}
841:19	$0, 0, 0, 0, \frac{1}{413}\sqrt{238}e^{12}, \frac{1}{413}\sqrt{2086}e^{13}, \frac{2}{413}\sqrt{609}e^{14},$ $\frac{5}{413}\sqrt{42}e^{15} + \frac{6}{59}e^{23}$	$(\frac{1}{59}, -\frac{4}{59}, \frac{2}{59}, \frac{4}{59}, -\frac{3}{59}, \frac{3}{59}, 0, -\frac{2}{59})$ $+ \frac{1}{413}\sqrt{2310}e^4 \otimes e_6 + \frac{1}{413}\sqrt{2954}e^1 \otimes e_7$	{12348, 235678}
841:19	$0, 0, 0, 0, \frac{17}{2891}\sqrt{1110}e^{12}, \frac{34}{2891}\sqrt{381}e^{13}, \frac{204}{2891}\sqrt{13}e^{14},$ $\frac{102}{2891}\sqrt{29}e^{15} + \frac{68}{2891}\sqrt{59}e^{23}$	$(\frac{17}{2891}, \frac{340}{2891}, \frac{34}{2891}, -\frac{612}{2891}, \frac{51}{413}, \frac{51}{2891}, -\frac{272}{2891}, \frac{374}{2891})$ $+ \frac{34}{2891}\sqrt{766}e^1 \otimes e_7 + \frac{51}{2891}\sqrt{230}e^2 \otimes e_6$	{12348, 3467}
841:19	$0, 0, 0, 0, \frac{380}{3413}\sqrt{2}e^{12}, \frac{38}{3413}\sqrt{609}e^{13}, \frac{38}{3413}\sqrt{519}e^{14},$ $\frac{114}{3413}\sqrt{30}e^{15} + \frac{19}{3413}\sqrt{1398}e^{23}$	$(\frac{19}{3413}, \frac{418}{3413}, \frac{38}{3413}, -\frac{741}{3413}, \frac{437}{3413}, \frac{57}{3413}, -\frac{323}{3413}, \frac{456}{3413})$ $+ \frac{1026}{3413}e^2 \otimes e_6 + \frac{38}{3413}\sqrt{829}e^3 \otimes e_7$	{1467, 278}
841:19	$0, 0, 0, 0, \frac{2}{1027}\sqrt{79130}e^{12}, \frac{2}{1027}\sqrt{187982}e^{13}, \frac{2}{1027}\sqrt{181806}e^{14},$ $\frac{8}{1027}\sqrt{1158}e^{15} + \frac{2}{1027}\sqrt{69866}e^{23}$	$(-\frac{72}{1027}, \frac{77}{1027}, -\frac{144}{1027}, \frac{556}{1027}, \frac{5}{1027}, -\frac{216}{1027}, \frac{633}{1027}, -\frac{67}{1027})$ $+ \frac{2}{1027}\sqrt{333890}e^4 \otimes e_6$	{123458, 1347, 23678, 356}
841:19	$0, 0, 0, 0, \frac{1}{551}\sqrt{56242}e^{12}, \frac{10}{551}\sqrt{1383}e^{13}, \frac{4}{551}\sqrt{7837}e^{14},$ $\frac{2}{551}\sqrt{9681}e^{15} + \frac{2}{551}\sqrt{18901}e^{23}$	$(-\frac{63}{551}, \frac{272}{551}, -\frac{126}{551}, -\frac{30}{551}, \frac{11}{29}, -\frac{189}{551}, \frac{242}{551}, \frac{146}{551})$ $+ \frac{1}{551}\sqrt{410290}e^2 \otimes e_6$	{1234, 1237, 34678, 368}
841:19	$0, 0, 0, 0, \frac{10}{53}e^{12}, \frac{15}{53}\sqrt{2}e^{13}, \frac{5}{53}\sqrt{14}e^{14},$ $\frac{10}{53}\sqrt{3}e^{15} + \frac{5}{53}\sqrt{30}e^{23}$	$(\frac{5}{53}, \frac{5}{53}, \frac{10}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{15}{53}, -\frac{15}{53}, \frac{15}{53})$ $- \frac{10}{53}\sqrt{14}e^3 \otimes e_7 + \frac{5}{53}\sqrt{38}e^2 \otimes e_4$	{125678, 1467, 278, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:19	$0, 0, 0, 0, \frac{10}{53}e^{12}, \frac{15}{53}\sqrt{2}e^{13}, \frac{5}{53}\sqrt{14}e^{24},$ $\frac{10}{53}\sqrt{3}e^{15} + \frac{5}{53}\sqrt{30}e^{23}$	$(\frac{5}{53}, \frac{5}{53}, \frac{10}{53}, -\frac{20}{53}, \frac{10}{53}, \frac{15}{53}, -\frac{15}{53}, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{14}e^3 \otimes e_7 + \frac{5}{53}\sqrt{38}e^2 \otimes e_4$	{125678, 1467, 278, 457}
841:19	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{2}{11}\sqrt{3}e^{13}, \frac{2}{11}\sqrt{5}e^{24},$ $\frac{2}{11}\sqrt{6}e^{15} + \frac{4}{11}e^{23}$	$(\frac{1}{11}, \frac{1}{22}, \frac{2}{11}, -\frac{7}{22}, \frac{3}{22}, \frac{3}{11}, -\frac{3}{11}, \frac{5}{22})$ $+ \frac{2}{11}\sqrt{14}e^1 \otimes e_7 + \frac{2}{11}\sqrt{5}e^2 \otimes e_4$	{235678, 3467}
841:19	$0, 0, 0, 0, \frac{1}{13}\sqrt{6}e^{12}, \frac{1}{13}\sqrt{6}e^{13}, \frac{3}{13}\sqrt{2}e^{24},$ $\frac{3}{13}\sqrt{2}e^{15} + \frac{2}{13}\sqrt{2}e^{23}$	$(\frac{1}{13}, -\frac{5}{26}, \frac{2}{13}, \frac{3}{26}, -\frac{3}{26}, \frac{3}{13}, -\frac{1}{13}, -\frac{1}{26})$ $+ \frac{2}{13}\sqrt{7}e^1 \otimes e_7 + \frac{3}{13}\sqrt{2}e^4 \otimes e_8$	{235678, 3467}
841:19	$0, 0, 0, 0, \frac{186}{2909}e^{12}, \frac{62}{2909}\sqrt{137}e^{13}, \frac{372}{2909}\sqrt{11}e^{24},$ $\frac{124}{2909}\sqrt{35}e^{15} + \frac{31}{2909}\sqrt{1030}e^{23}$	$(-\frac{217}{2909}, \frac{310}{2909}, -\frac{434}{2909}, \frac{837}{2909}, \frac{93}{2909}, -\frac{651}{2909}, \frac{1147}{2909}, -\frac{124}{2909})$ $+ \frac{434}{2909}\sqrt{13}e^4 \otimes e_8 + \frac{496}{2909}\sqrt{10}e^2 \otimes e_6$	{14567, 2578}
841:19	$0, 0, 0, 0, \frac{91}{701}\sqrt{6}e^{12}, \frac{65}{701}\sqrt{10}e^{13}, \frac{13}{701}\sqrt{462}e^{24},$ $\frac{39}{701}\sqrt{6}e^{15} + \frac{13}{701}\sqrt{310}e^{23}$	$(\frac{65}{701}, -\frac{169}{701}, \frac{130}{701}, \frac{130}{701}, -\frac{104}{701}, \frac{195}{701}, -\frac{39}{701}, -\frac{39}{701})$ $+ \frac{13}{701}\sqrt{582}e^4 \otimes e_8 + \frac{26}{701}\sqrt{170}e^3 \otimes e_7$	{12345, 138, 2346, 3568}
841:19	$0, 0, 0, 0, \frac{91}{701}\sqrt{6}e^{12}, \frac{65}{701}\sqrt{10}e^{13}, \frac{13}{701}\sqrt{462}e^{24},$ $\frac{39}{701}\sqrt{6}e^{15} + \frac{13}{701}\sqrt{310}e^{23}$	$(\frac{65}{701}, -\frac{169}{701}, \frac{130}{701}, \frac{130}{701}, -\frac{104}{701}, \frac{195}{701}, -\frac{39}{701}, -\frac{39}{701})$ $- \frac{13}{701}\sqrt{582}e^4 \otimes e_8 + \frac{26}{701}\sqrt{170}e^3 \otimes e_7$	{12345, 138, 2346, 3568}
841:19	$0, 0, 0, 0, \frac{11}{3269}\sqrt{1842}e^{12}, \frac{11}{3269}\sqrt{3046}e^{13}, \frac{132}{3269}\sqrt{19}e^{24},$ $\frac{11}{3269}\sqrt{930}e^{15} + \frac{22}{3269}\sqrt{43}e^{23}$	$(\frac{11}{467}, -\frac{319}{3269}, \frac{22}{467}, \frac{352}{3269}, -\frac{242}{3269}, \frac{33}{467}, \frac{33}{3269}, -\frac{165}{3269})$ $+ \frac{11}{3269}\sqrt{3098}e^3 \otimes e_7 + \frac{22}{3269}\sqrt{753}e^4 \otimes e_6$	{125678, 457}
841:19	$0, 0, 0, 0, \frac{24}{73}\sqrt{2}e^{12}, \frac{24}{73}\sqrt{2}e^{13}, \frac{24}{73}\sqrt{3}e^{24},$ $\frac{24}{73}\sqrt{3}e^{15} + \frac{8}{73}\sqrt{26}e^{23}$	$(\frac{10}{73}, -\frac{7}{73}, \frac{20}{73}, -\frac{15}{73}, \frac{3}{73}, \frac{30}{73}, -\frac{22}{73}, \frac{13}{73})$ $+ \frac{8}{73}\sqrt{6}e^1 \otimes e_7$	{12348, 135, 235678, 3467}
841:20	$0, 0, 0, 0, \frac{5}{32}\sqrt{6}e^{12}, \frac{5}{32}\sqrt{21}e^{13}, \frac{5}{32}\sqrt{21}e^{14} + \frac{5}{32}\sqrt{15}e^{23},$ $\frac{5}{32}\sqrt{17}e^{15} + \frac{13}{32}\sqrt{2}e^{34}$	$(-\frac{5}{32}, \frac{15}{32}, -\frac{15}{64}, \frac{25}{64}, \frac{5}{16}, -\frac{25}{64}, \frac{15}{64}, \frac{5}{32})$ $+ \frac{5}{32}\sqrt{55}e^4 \otimes e_6$	{134, 167}
841:20	$0, 0, 0, 0, \frac{90}{2213}\sqrt{254}e^{12}, \frac{585}{2213}\sqrt{6}e^{13},$ $\frac{90}{2213}\sqrt{199}e^{14} + \frac{90}{2213}\sqrt{290}e^{23}, \frac{90}{2213}\sqrt{73}e^{15} + \frac{540}{2213}\sqrt{2}e^{34}$	$(-\frac{360}{2213}, \frac{1125}{2213}, -\frac{540}{2213}, \frac{945}{2213}, \frac{765}{2213}, -\frac{900}{2213}, \frac{585}{2213}, \frac{405}{2213})$ $+ \frac{90}{2213}\sqrt{905}e^2 \otimes e_6$	{2578, 367}
841:21	$0, 0, 0, 0, \frac{23}{576}\sqrt{58}e^{12}, \frac{23}{576}\sqrt{295}e^{13}, \frac{23}{576}\sqrt{295}e^{14} + \frac{23}{576}\sqrt{206}e^{23},$ $\frac{23}{288}\sqrt{15}e^{25} + \frac{23}{288}\sqrt{59}e^{34}$	$(-\frac{161}{576}, \frac{23}{64}, -\frac{115}{1152}, \frac{69}{128}, \frac{23}{288}, -\frac{437}{1152}, \frac{299}{1152}, \frac{253}{576})$ $- \frac{23}{576}\sqrt{942}e^4 \otimes e_6$	{134, 167, 3568, 4578}
841:21	$0, 0, 0, 0, \frac{23}{576}\sqrt{58}e^{12}, \frac{23}{576}\sqrt{295}e^{13}, \frac{23}{576}\sqrt{295}e^{14} + \frac{23}{576}\sqrt{206}e^{23},$ $\frac{23}{288}\sqrt{15}e^{25} + \frac{23}{288}\sqrt{59}e^{34}$	$(-\frac{161}{576}, \frac{23}{64}, -\frac{115}{1152}, \frac{69}{128}, \frac{23}{288}, -\frac{437}{1152}, \frac{299}{1152}, \frac{253}{576})$ $+ \frac{23}{576}\sqrt{942}e^4 \otimes e_6$	{134, 167, 3568, 4578}
841:21	$0, 0, 0, 0, \frac{26}{261}\sqrt{29}e^{12}, \frac{52}{261}\sqrt{10}e^{13}, \frac{26}{261}\sqrt{14}e^{14} + \frac{13}{261}\sqrt{70}e^{23},$ $\frac{26}{87}\sqrt{5}e^{25} + \frac{26}{261}\sqrt{22}e^{34}$	$(-\frac{65}{261}, \frac{26}{87}, -\frac{26}{261}, \frac{13}{29}, \frac{13}{261}, -\frac{91}{261}, \frac{52}{261}, \frac{91}{261})$ $+ \frac{52}{87}\sqrt{3}e^2 \otimes e_6$	{1568, 367}
841:22	$0, 0, 0, 0, \frac{7}{65}\sqrt{6}e^{12}, \frac{14}{65}\sqrt{7}e^{14} - \frac{28}{65}\sqrt{3}e^{23},$ $\frac{7}{65}\sqrt{26}e^{13} + \frac{7}{65}\sqrt{6}e^{24}, \frac{14}{65}\sqrt{11}e^{15}$	$(-\frac{7}{65}, -\frac{7}{65}, \frac{28}{65}, \frac{28}{65}, -\frac{14}{65}, \frac{21}{65}, \frac{21}{65}, -\frac{21}{65})$ $+ \frac{42}{65}\sqrt{3}e^3 \otimes e_8$	{1235, 178, 2347, 458, 1235, 178, 2347, 458}
841:22	$0, 0, 0, 0, \frac{7}{65}\sqrt{6}e^{12}, \frac{14}{65}\sqrt{7}e^{14} + \frac{28}{65}\sqrt{3}e^{23},$ $\frac{7}{65}\sqrt{26}e^{13} + \frac{7}{65}\sqrt{6}e^{24}, \frac{14}{65}\sqrt{11}e^{15}$	$(-\frac{7}{65}, -\frac{7}{65}, \frac{28}{65}, \frac{28}{65}, -\frac{14}{65}, \frac{21}{65}, \frac{21}{65}, -\frac{21}{65})$ $+ \frac{42}{65}\sqrt{3}e^3 \otimes e_8$	{1235, 178, 2347, 458, 1235, 178, 2347, 458}
841:23	$0, 0, 0, 0, \frac{70}{2237}\sqrt{42}e^{12}, \frac{210}{2237}\sqrt{39}e^{34},$ $\frac{70}{2237}\sqrt{330}e^{14} + \frac{140}{2237}\sqrt{91}e^{23}, \frac{35}{2237}\sqrt{398}e^{13} + \frac{70}{2237}\sqrt{461}e^{25}$	$(-\frac{560}{2237}, \frac{105}{2237}, \frac{210}{2237}, \frac{875}{2237}, -\frac{455}{2237}, \frac{1085}{2237}, \frac{315}{2237}, -\frac{350}{2237})$ $+ \frac{210}{2237}\sqrt{103}e^4 \otimes e_8$	{1578, 467}
841:23	$0, 0, 0, 0, \frac{208}{751}\sqrt{6}e^{12}, \frac{208}{751}\sqrt{6}e^{34}, \frac{208}{751}\sqrt{3}e^{14} + \frac{26}{751}\sqrt{339}e^{23},$ $\frac{117}{751}\sqrt{6}e^{13} + \frac{26}{751}\sqrt{141}e^{25}$	$(\frac{286}{751}, \frac{13}{751}, \frac{26}{751}, -\frac{247}{751}, \frac{299}{751}, -\frac{221}{751}, \frac{39}{751}, \frac{312}{751})$ $+ \frac{26}{751}\sqrt{921}e^1 \otimes e_6$	{1578, 467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:23	$0, 0, 0, 0, \frac{6}{35}\sqrt{7}e^{12}, \frac{6}{35}\sqrt{7}e^{34}, \frac{2}{35}\sqrt{21}e^{14} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{2}{5}e^{13} + \frac{4}{35}\sqrt{14}e^{25}$	$(\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{105}e^2 \otimes e_6$	{2345, 367}
841:24	$0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{2}{19}\sqrt{33}e^{13}, \frac{1}{19}\sqrt{110}e^{14} + \frac{1}{19}\sqrt{110}e^{23},$ $\frac{2}{19}\sqrt{22}e^{15} + \frac{2}{19}\sqrt{33}e^{24}$	$(\frac{1}{19}, -\frac{5}{19}, \frac{8}{19}, \frac{2}{19}, -\frac{4}{19}, \frac{9}{19}, \frac{3}{19}, -\frac{3}{19})$ $+ \frac{4}{19}\sqrt{22}e^3 \otimes e_8$	{2346, 458}
841:24	$0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{15}\sqrt{15}e^{13}, \frac{1}{15}\sqrt{30}e^{14} + \frac{2}{5}e^{23},$ $\frac{4}{15}\sqrt{3}e^{15} + \frac{2}{15}\sqrt{15}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{2}{15}\sqrt{21}e^4 \otimes e_6$	{167, 356}
841:26	$0, 0, 0, 0, \frac{1}{27}\sqrt{102}e^{12}, \frac{2}{27}\sqrt{6}e^{13}, \frac{2}{9}\sqrt{3}e^{23},$ $\frac{4}{27}\sqrt{3}e^{16} + \frac{2}{9}e^{25}$	$(\frac{2}{9}, \frac{1}{27}, -\frac{4}{27}, -\frac{8}{27}, \frac{7}{27}, \frac{2}{27}, -\frac{1}{9}, \frac{8}{27})$ $+ \frac{1}{27}\sqrt{222}e^1 \otimes e_7 + \frac{2}{27}\sqrt{51}e^2 \otimes e_4$	{1238, 257}
841:26	$0, 0, 0, 0, \frac{26}{1619}\sqrt{151}e^{12}, \frac{26}{1619}\sqrt{407}e^{13}, \frac{78}{1619}\sqrt{61}e^{23},$ $\frac{26}{1619}\sqrt{469}e^{16} + \frac{52}{1619}\sqrt{71}e^{25}$	$(\frac{247}{1619}, \frac{52}{1619}, -\frac{143}{1619}, -\frac{481}{1619}, \frac{299}{1619}, \frac{104}{1619}, -\frac{91}{1619}, \frac{351}{1619})$ $+ \frac{26}{1619}\sqrt{647}e^3 \otimes e_4 + \frac{26}{1619}\sqrt{806}e^1 \otimes e_7$	{12358, 247}
841:26	$0, 0, 0, 0, \frac{26}{1013}\sqrt{615}e^{12}, \frac{78}{1013}\sqrt{97}e^{13}, \frac{78}{1013}\sqrt{115}e^{23},$ $\frac{26}{1013}\sqrt{501}e^{16} + \frac{468}{1013}e^{25}$	$(-\frac{65}{1013}, \frac{156}{1013}, \frac{377}{1013}, -\frac{637}{1013}, \frac{91}{1013}, \frac{312}{1013}, \frac{533}{1013}, \frac{247}{1013})$ $+ \frac{390}{1013}\sqrt{11}e^3 \otimes e_4$	{12358, 1378, 247, 45}
841:26	$0, 0, 0, 0, \frac{240}{1007}\sqrt{11}e^{12}, \frac{36}{1007}\sqrt{143}e^{13}, \frac{132}{1007}\sqrt{11}e^{23},$ $\frac{12}{1007}\sqrt{2167}e^{16} + \frac{12}{53}\sqrt{11}e^{25}$	$(\frac{84}{1007}, \frac{125}{1007}, \frac{166}{1007}, -\frac{667}{1007}, \frac{11}{53}, \frac{250}{1007}, \frac{291}{1007}, \frac{334}{1007})$ $+ \frac{36}{1007}\sqrt{1023}e^2 \otimes e_4$	{12368, 1345678, 2567, 46}
841:26	$0, 0, 0, 0, \frac{96}{1361}e^{12}, \frac{32}{1361}\sqrt{221}e^{13}, \frac{32}{1361}\sqrt{226}e^{23},$ $\frac{64}{1361}\sqrt{115}e^{16} + \frac{32}{1361}\sqrt{10}e^{25}$	$(\frac{208}{1361}, -\frac{32}{1361}, -\frac{272}{1361}, \frac{656}{1361}, \frac{176}{1361}, -\frac{64}{1361}, -\frac{304}{1361}, \frac{144}{1361})$ $+ \frac{32}{1361}\sqrt{481}e^4 \otimes e_8 + \frac{32}{1361}\sqrt{705}e^1 \otimes e_7$	{12358, 247}
841:26	$0, 0, 0, 0, \frac{4}{35}\sqrt{21}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{6}{35}\sqrt{35}e^{23},$ $\frac{3}{35}\sqrt{105}e^{16} + \frac{3}{35}\sqrt{42}e^{25}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 1, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{35}\sqrt{266}e^4 \otimes e_7$	{12578, 148, 234, 357}
841:26	$0, 0, 0, 0, \frac{12}{1049}\sqrt{2265}e^{12}, \frac{36}{1049}\sqrt{453}e^{13}, \frac{2}{1049}\sqrt{46659}e^{23},$ $\frac{24}{1049}\sqrt{906}e^{16} + \frac{2}{1049}\sqrt{2265}e^{25}$	$(\frac{257}{1049}, \frac{118}{1049}, -\frac{21}{1049}, -\frac{649}{1049}, \frac{375}{1049}, \frac{236}{1049}, \frac{97}{1049}, \frac{493}{1049})$ $+ \frac{6}{1049}\sqrt{42733}e^1 \otimes e_4$	{12378, 1358, 245, 47}
841:26	$0, 0, 0, 0, \frac{3}{529}\sqrt{1394}e^{12}, \frac{9}{529}\sqrt{1066}e^{13}, \frac{3}{529}\sqrt{13202}e^{23},$ $\frac{60}{529}\sqrt{41}e^{16} + \frac{12}{529}\sqrt{451}e^{25}$	$(\frac{195}{529}, \frac{7}{529}, -\frac{181}{529}, \frac{97}{529}, \frac{202}{529}, \frac{14}{529}, -\frac{174}{529}, \frac{209}{529})$ $+ \frac{36}{529}\sqrt{246}e^1 \otimes e_7$	{1456, 156, 34678, 3678}
841:26	$0, 0, 0, 0, \frac{2}{347}\sqrt{2431}e^{12}, \frac{8}{347}\sqrt{374}e^{13}, \frac{2}{347}\sqrt{2431}e^{23},$ $\frac{6}{347}\sqrt{1870}e^{16} + \frac{6}{347}\sqrt{1870}e^{25}$	$(-\frac{39}{347}, \frac{6}{347}, \frac{51}{347}, 1, -\frac{33}{347}, \frac{12}{347}, \frac{57}{347}, -\frac{27}{347})$ $+ \frac{2}{347}\sqrt{51799}e^4 \otimes e_8$	{12456, 1467, 23678, 3568}
841:27	$0, 0, 0, 0, -\frac{1}{17}\sqrt{42}e^{12}, \frac{1}{17}\sqrt{42}e^{13}, \frac{7}{17}\sqrt{6}e^{23},$ $\frac{1}{17}\sqrt{42}e^{25} + \frac{1}{17}\sqrt{42}e^{36}$	$(\frac{5}{17}, -\frac{2}{17}, -\frac{2}{17}, 1, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{1}{17})$ $+ \frac{14}{17}\sqrt{3}e^4 \otimes e_7$	{1234568, 12578, 148, 234, 267, 456, 1234568, 12578, 148, 234, 267, 456}
841:27	$0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{1}{17}\sqrt{42}e^{13}, \frac{7}{17}\sqrt{6}e^{23},$ $\frac{1}{17}\sqrt{42}e^{25} + \frac{1}{17}\sqrt{42}e^{36}$	$(\frac{5}{17}, -\frac{2}{17}, -\frac{2}{17}, 1, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{1}{17})$ $+ \frac{14}{17}\sqrt{3}e^4 \otimes e_7$	{1234568, 12578, 148, 234, 267, 456, 1234568, 12578, 148, 234, 267, 456}
841:27	$0, 0, 0, 0, -\frac{2}{73}\sqrt{671}e^{12}, \frac{4}{73}\sqrt{61}e^{13}, \frac{1}{73}\sqrt{1830}e^{23},$ $\frac{2}{73}\sqrt{671}e^{25} + \frac{4}{73}\sqrt{61}e^{36}$	$(-\frac{1}{73}, \frac{14}{73}, \frac{14}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{13}{73}, \frac{28}{73}, \frac{27}{73})$ $+ \frac{2}{73}\sqrt{1830}e^2 \otimes e_4$	{12368, 1278, 1345678, 1458, 235, 2567, 347, 46, 12368, 1278, 1345678, 1458, 235, 2567, 347, 46}
841:27	$0, 0, 0, 0, \frac{2}{73}\sqrt{671}e^{12}, \frac{4}{73}\sqrt{61}e^{13}, \frac{1}{73}\sqrt{1830}e^{23},$ $\frac{2}{73}\sqrt{671}e^{25} + \frac{4}{73}\sqrt{61}e^{36}$	$(-\frac{1}{73}, \frac{14}{73}, \frac{14}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{13}{73}, \frac{28}{73}, \frac{27}{73})$ $+ \frac{2}{73}\sqrt{1830}e^2 \otimes e_4$	{12368, 1278, 1345678, 1458, 235, 2567, 347, 46, 12368, 1278, 1345678, 1458, 235, 2567, 347, 46}
841:27	$0, 0, 0, 0, -\frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, \frac{1}{5}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{5}e^{25} + \frac{1}{5}\sqrt{5}e^{36}$	$(\frac{2}{5}, 0, 0, -\frac{3}{5}, \frac{2}{5}, \frac{2}{5}, 0, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_4$	{12378, 1268, 15678, 234567, 245, 47, 12378, 1268, 15678, 234567, 245, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:27	$0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, \frac{1}{5}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{5}e^{25} + \frac{1}{5}\sqrt{5}e^{36}$	$(\frac{2}{5}, 0, 0, -\frac{3}{5}, \frac{2}{5}, \frac{2}{5}, 0, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_4$	{12378, 1268, 15678, 234567, 245, 47, 12378, 1268, 15678, 234567, 245, 47}
841:27	$0, 0, 0, 0, -\frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{5}e^{13}, \frac{1}{5}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{15}e^{25} + \frac{1}{5}\sqrt{15}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{2}{5}\sqrt{10}e^4 \otimes e_8$	{12378, 1268, 15678, 234567, 245, 47, 12378, 1268, 15678, 234567, 245, 47}
841:27	$0, 0, 0, 0, \frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{5}e^{13}, \frac{1}{5}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{15}e^{25} + \frac{1}{5}\sqrt{15}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{2}{5}\sqrt{10}e^4 \otimes e_8$	{12378, 1268, 15678, 234567, 245, 47, 12378, 1268, 15678, 234567, 245, 47}
841:29	$0, 0, 0, 0, \frac{34}{1723}\sqrt{85}e^{12}, \frac{170}{1723}\sqrt{5}e^{13}, \frac{34}{1723}\sqrt{485}e^{14},$ $\frac{68}{1723}\sqrt{77}e^{16} + \frac{34}{1723}\sqrt{229}e^{25}$	$(\frac{170}{1723}, -\frac{119}{1723}, -\frac{408}{1723}, \frac{510}{1723}, \frac{51}{1723}, -\frac{238}{1723}, \frac{680}{1723}, -\frac{68}{1723})$ $+ \frac{680}{1723}\sqrt{2}e^4 \otimes e_8 + \frac{68}{1723}\sqrt{182}e^1 \otimes e_3$	{1278, 1578, 23457, 347}
841:29	$0, 0, 0, 0, \frac{34}{1723}\sqrt{85}e^{12}, \frac{170}{1723}\sqrt{5}e^{13}, \frac{34}{1723}\sqrt{485}e^{14},$ $\frac{68}{1723}\sqrt{77}e^{16} + \frac{34}{1723}\sqrt{229}e^{25}$	$(\frac{170}{1723}, -\frac{119}{1723}, -\frac{408}{1723}, \frac{510}{1723}, \frac{51}{1723}, -\frac{238}{1723}, \frac{680}{1723}, -\frac{68}{1723})$ $+ \frac{680}{1723}\sqrt{2}e^4 \otimes e_8 - \frac{68}{1723}\sqrt{182}e^1 \otimes e_3$	{1278, 1578, 23457, 347}
841:29	$0, 0, 0, 0, \frac{34}{1327}\sqrt{51}e^{12}, \frac{714}{1327}e^{13}, \frac{34}{1327}\sqrt{47}e^{14},$ $\frac{238}{1327}\sqrt{6}e^{16} + \frac{102}{1327}\sqrt{5}e^{25}$	$(\frac{102}{1327}, \frac{153}{1327}, \frac{204}{1327}, -\frac{476}{1327}, \frac{255}{1327}, \frac{306}{1327}, -\frac{374}{1327}, \frac{408}{1327})$ $+ \frac{306}{1327}\sqrt{6}e^3 \otimes e_7 + \frac{34}{1327}\sqrt{682}e^1 \otimes e_4$	{234568, 3468}
841:29	$0, 0, 0, 0, \frac{216}{1667}\sqrt{6}e^{12}, \frac{36}{1667}\sqrt{190}e^{13}, \frac{72}{1667}\sqrt{130}e^{14},$ $\frac{36}{1667}\sqrt{133}e^{16} + \frac{36}{1667}\sqrt{285}e^{25}$	$(-\frac{432}{1667}, \frac{126}{1667}, \frac{684}{1667}, \frac{468}{1667}, -\frac{306}{1667}, \frac{252}{1667}, \frac{36}{1667}, -\frac{180}{1667})$ $+ \frac{36}{1667}\sqrt{679}e^3 \otimes e_7 + \frac{36}{1667}\sqrt{793}e^4 \otimes e_8$	{2368, 3568}
841:29	$0, 0, 0, 0, \frac{10}{281}\sqrt{102}e^{12}, \frac{30}{281}\sqrt{2}e^{13}, \frac{10}{281}\sqrt{102}e^{14},$ $\frac{50}{281}\sqrt{2}e^{16} + \frac{20}{281}\sqrt{51}e^{25}$	$(-\frac{50}{281}, \frac{35}{281}, \frac{120}{281}, -\frac{15}{281}, -\frac{15}{281}, \frac{70}{281}, -\frac{65}{281}, \frac{20}{281})$ $- \frac{10}{281}\sqrt{186}e^3 \otimes e_8 + \frac{40}{281}\sqrt{19}e^2 \otimes e_7$	{12468, 15678, 2356, 3467}
841:29	$0, 0, 0, 0, \frac{10}{281}\sqrt{102}e^{12}, \frac{30}{281}\sqrt{2}e^{13}, \frac{10}{281}\sqrt{102}e^{14},$ $\frac{50}{281}\sqrt{2}e^{16} + \frac{20}{281}\sqrt{51}e^{25}$	$(-\frac{50}{281}, \frac{35}{281}, \frac{120}{281}, -\frac{15}{281}, -\frac{15}{281}, \frac{70}{281}, -\frac{65}{281}, \frac{20}{281})$ $+ \frac{10}{281}\sqrt{186}e^3 \otimes e_8 + \frac{40}{281}\sqrt{19}e^2 \otimes e_7$	{12468, 15678, 2356, 3467}
841:29	$0, 0, 0, 0, \frac{6}{1141}\sqrt{8985}e^{12}, \frac{2}{1141}\sqrt{189883}e^{13}, \frac{10}{1141}\sqrt{7787}e^{14},$ $\frac{8}{1141}\sqrt{599}e^{16} + \frac{2}{1141}\sqrt{47321}e^{25}$	$(-\frac{270}{1141}, \frac{277}{1141}, \frac{824}{1141}, -\frac{104}{1141}, \frac{1}{163}, \frac{554}{1141}, -\frac{374}{1141}, \frac{284}{1141})$ $+ \frac{4}{1141}\sqrt{137770}e^3 \otimes e_7$	{12345, 134, 2478, 4578}
841:29	$0, 0, 0, 0, \frac{2}{125}\sqrt{987}e^{12}, \frac{6}{125}\sqrt{235}e^{13}, \frac{2}{125}\sqrt{1457}e^{14},$ $\frac{8}{125}\sqrt{141}e^{16} + \frac{6}{125}\sqrt{47}e^{25}$	$(\frac{42}{125}, \frac{9}{125}, -\frac{24}{125}, -\frac{52}{125}, \frac{51}{125}, \frac{18}{125}, -\frac{2}{25}, \frac{12}{25})$ $+ \frac{4}{125}\sqrt{1222}e^1 \otimes e_4$	{126, 156, 234568, 3468}
841:29	$0, 0, 0, 0, \frac{1}{92}\sqrt{3139}e^{12}, \frac{1}{46}\sqrt{430}e^{13}, \frac{1}{92}\sqrt{3139}e^{14},$ $\frac{1}{46}\sqrt{731}e^{16} + \frac{1}{46}\sqrt{903}e^{25}$	$(-\frac{3}{46}, \frac{27}{184}, \frac{33}{92}, -\frac{47}{184}, \frac{15}{184}, \frac{27}{92}, -\frac{59}{184}, \frac{21}{92})$ $+ \frac{1}{92}\sqrt{6794}e^2 \otimes e_7$	{123468, 135678, 256, 467}
841:29	$0, 0, 0, 0, \frac{7}{125}\sqrt{82}e^{12}, \frac{7}{125}\sqrt{10}e^{13}, \frac{28}{125}\sqrt{3}e^{14},$ $\frac{7}{125}\sqrt{34}e^{16} + \frac{42}{125}\sqrt{2}e^{25}$	$(\frac{7}{125}, \frac{14}{125}, \frac{21}{125}, -\frac{42}{125}, \frac{21}{125}, \frac{28}{125}, -\frac{7}{25}, \frac{7}{25})$ $+ \frac{14}{125}\sqrt{17}e^1 \otimes e_4 + \frac{7}{25}\sqrt{6}e^2 \otimes e_7$	{135678, 467}
841:29	$0, 0, 0, 0, \frac{19}{2909}\sqrt{1146}e^{12}, \frac{19}{2909}\sqrt{930}e^{13}, \frac{114}{2909}\sqrt{61}e^{14},$ $\frac{19}{2909}\sqrt{986}e^{16} + \frac{342}{2909}\sqrt{7}e^{25}$	$(-\frac{437}{2909}, \frac{152}{2909}, \frac{741}{2909}, \frac{228}{2909}, -\frac{285}{2909}, \frac{304}{2909}, -\frac{209}{2909}, -\frac{133}{2909})$ $+ \frac{190}{2909}\sqrt{21}e^4 \otimes e_8 + \frac{19}{2909}\sqrt{3166}e^2 \otimes e_7$	{135678, 467}
841:29	$0, 0, 0, 0, \frac{2}{1165}\sqrt{54827}e^{12}, \frac{2}{1165}\sqrt{5533}e^{13}, \frac{22}{1165}\sqrt{1509}e^{14},$ $\frac{28}{1165}\sqrt{503}e^{16} + \frac{2}{1165}\sqrt{162469}e^{25}$	$(-\frac{218}{1165}, \frac{7}{1165}, \frac{232}{1165}, \frac{802}{1165}, -\frac{211}{1165}, \frac{14}{1165}, \frac{584}{1165}, -\frac{204}{1165})$ $+ \frac{8}{1165}\sqrt{29677}e^4 \otimes e_8$	{123456, 1346, 268, 568}
841:29	$0, 0, 0, 0, \frac{2}{287}\sqrt{9165}e^{12}, \frac{10}{287}\sqrt{141}e^{13}, \frac{2}{287}\sqrt{9165}e^{14},$ $\frac{4}{287}\sqrt{1833}e^{16} + \frac{2}{287}\sqrt{141}e^{25}$	$(\frac{130}{287}, -\frac{11}{287}, -\frac{152}{287}, -\frac{10}{287}, \frac{17}{41}, -\frac{22}{287}, \frac{120}{287}, \frac{108}{287})$ $- \frac{4}{287}\sqrt{8178}e^1 \otimes e_3$	{1248, 1278, 1458, 1578, 23457, 235, 3, 347}
841:29	$0, 0, 0, 0, \frac{2}{287}\sqrt{9165}e^{12}, \frac{10}{287}\sqrt{141}e^{13}, \frac{2}{287}\sqrt{9165}e^{14},$ $\frac{4}{287}\sqrt{1833}e^{16} + \frac{2}{287}\sqrt{141}e^{25}$	$(\frac{130}{287}, -\frac{11}{287}, -\frac{152}{287}, -\frac{10}{287}, \frac{17}{41}, -\frac{22}{287}, \frac{120}{287}, \frac{108}{287})$ $+ \frac{4}{287}\sqrt{8178}e^1 \otimes e_3$	{1248, 1278, 1458, 1578, 23457, 235, 3, 347}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:30	$0, 0, 0, 0, \frac{44}{215}\sqrt{15}e^{12}, \frac{33}{215}\sqrt{6}e^{13}, \frac{88}{215}\sqrt{2}e^{24},$ $\frac{11}{215}\sqrt{138}e^{16} + \frac{11}{215}\sqrt{222}e^{25}$	$(0, \frac{33}{215}, \frac{66}{215}, -\frac{88}{215}, \frac{33}{215}, \frac{66}{215}, -\frac{11}{43}, \frac{66}{215})$ $+ \frac{11}{215}\sqrt{30}e^3 \otimes e_7 + \frac{44}{215}\sqrt{22}e^2 \otimes e_4$	{12368, 134568}
841:30	$0, 0, 0, 0, \frac{22}{1505}\sqrt{491}e^{12}, \frac{22}{1505}\sqrt{449}e^{13}, \frac{22}{1505}\sqrt{707}e^{24},$ $\frac{22}{1505}\sqrt{474}e^{16} + \frac{22}{301}\sqrt{5}e^{25}$	$(-\frac{55}{301}, \frac{66}{1505}, \frac{407}{1505}, \frac{99}{1505}, -\frac{209}{1505}, \frac{132}{1505}, \frac{33}{301}, -\frac{143}{1505})$ $+ \frac{22}{1505}\sqrt{649}e^4 \otimes e_8 + \frac{22}{1505}\sqrt{699}e^3 \otimes e_7$	{138, 457}
841:30	$0, 0, 0, 0, \frac{4}{521}\sqrt{267}e^{12}, \frac{36}{521}\sqrt{5}e^{13}, \frac{16}{521}\sqrt{42}e^{24},$ $\frac{16}{521}\sqrt{42}e^{16} + \frac{4}{521}\sqrt{186}e^{25}$	$(\frac{46}{521}, -\frac{16}{521}, -\frac{78}{521}, \frac{38}{521}, \frac{30}{521}, -\frac{32}{521}, \frac{22}{521}, \frac{14}{521})$ $+ \frac{4}{521}\sqrt{615}e^4 \otimes e_8 + \frac{4}{521}\sqrt{777}e^1 \otimes e_7$	{138, 457}
841:30	$0, 0, 0, 0, \frac{4}{47}\sqrt{66}e^{12}, \frac{3}{47}\sqrt{154}e^{13}, \frac{12}{47}\sqrt{11}e^{24},$ $\frac{11}{47}\sqrt{6}e^{16} + \frac{3}{47}\sqrt{66}e^{25}$	$(-\frac{8}{47}, \frac{9}{47}, \frac{26}{47}, -\frac{16}{47}, \frac{1}{47}, \frac{18}{47}, -\frac{7}{47}, \frac{10}{47})$ $+ \frac{3}{47}\sqrt{286}e^3 \otimes e_7$	{123458, 138, 27, 457}
841:30	$0, 0, 0, 0, \frac{170}{1337}\sqrt{2}e^{12}, \frac{34}{1337}\sqrt{74}e^{13}, \frac{34}{1337}\sqrt{287}e^{24},$ $\frac{510}{1337}\sqrt{2}e^{16} + \frac{34}{1337}\sqrt{37}e^{25}$	$(\frac{187}{1337}, -\frac{102}{1337}, -\frac{391}{1337}, \frac{561}{1337}, \frac{85}{1337}, -\frac{204}{1337}, \frac{459}{1337}, -\frac{17}{1337})$ $+ \frac{34}{1337}\sqrt{489}e^1 \otimes e_3 + \frac{884}{1337}e^4 \otimes e_8$	{12456, 1467, 23678, 3568}
841:30	$0, 0, 0, 0, \frac{170}{1337}\sqrt{2}e^{12}, \frac{34}{1337}\sqrt{74}e^{13}, \frac{34}{1337}\sqrt{287}e^{24},$ $\frac{510}{1337}\sqrt{2}e^{16} + \frac{34}{1337}\sqrt{37}e^{25}$	$(\frac{187}{1337}, -\frac{102}{1337}, -\frac{391}{1337}, \frac{561}{1337}, \frac{85}{1337}, -\frac{204}{1337}, \frac{459}{1337}, -\frac{17}{1337})$ $- \frac{34}{1337}\sqrt{489}e^1 \otimes e_3 + \frac{884}{1337}e^4 \otimes e_8$	{12456, 1467, 23678, 3568}
841:30	$0, 0, 0, 0, \frac{5}{59}\sqrt{26}e^{12}, \frac{20}{59}e^{13}, \frac{10}{59}\sqrt{3}e^{24},$ $\frac{10}{59}\sqrt{3}e^{16} + \frac{10}{59}\sqrt{3}e^{25}$	$(\frac{10}{59}, \frac{5}{59}, 0, -\frac{20}{59}, \frac{15}{59}, \frac{10}{59}, -\frac{15}{59}, \frac{20}{59})$ $+ \frac{10}{59}\sqrt{11}e^2 \otimes e_4 + \frac{5}{59}\sqrt{58}e^1 \otimes e_7$	{257, 47}
841:30	$0, 0, 0, 0, \frac{2}{179}\sqrt{3014}e^{12}, \frac{2}{179}\sqrt{1781}e^{13}, \frac{2}{179}\sqrt{4795}e^{24},$ $\frac{2}{179}\sqrt{4795}e^{16} + \frac{1}{179}\sqrt{3562}e^{25}$	$(-\frac{18}{179}, -\frac{5}{179}, \frac{8}{179}, \frac{109}{179}, -\frac{23}{179}, -\frac{10}{179}, \frac{104}{179}, -\frac{28}{179})$ $+ \frac{1}{179}\sqrt{39730}e^4 \otimes e_8$	{12456, 1467, 23678, 3568}
841:30	$0, 0, 0, 0, \frac{2}{305}\sqrt{16770}e^{12}, \frac{12}{305}\sqrt{129}e^{13}, \frac{2}{305}\sqrt{9718}e^{24},$ $\frac{2}{305}\sqrt{9718}e^{16} + \frac{2}{305}\sqrt{15222}e^{25}$	$(\frac{1}{61}, \frac{46}{305}, \frac{87}{305}, -\frac{126}{305}, \frac{51}{305}, \frac{92}{305}, -\frac{16}{61}, \frac{97}{305})$ $+ \frac{8}{305}\sqrt{1462}e^2 \otimes e_4$	{12368, 134568, 256, 46}
841:30	$0, 0, 0, 0, \frac{2}{181}\sqrt{623}e^{12}, \frac{1}{181}\sqrt{11570}e^{13}, \frac{1}{181}\sqrt{14062}e^{24},$ $\frac{1}{181}\sqrt{14062}e^{16} + \frac{2}{181}\sqrt{1869}e^{25}$	$(\frac{51}{181}, \frac{9}{181}, -\frac{33}{181}, -\frac{47}{181}, \frac{60}{181}, \frac{18}{181}, -\frac{38}{181}, \frac{69}{181})$ $+ \frac{1}{181}\sqrt{26522}e^1 \otimes e_7$	{123458, 138, 27, 457}
841:30	$0, 0, 0, 0, \frac{11}{359}\sqrt{195}e^{12}, \frac{11}{359}\sqrt{51}e^{13}, \frac{11}{359}\sqrt{141}e^{24},$ $\frac{55}{359}\sqrt{2}e^{16} + \frac{11}{359}\sqrt{303}e^{25}$	$(-\frac{121}{718}, \frac{44}{359}, \frac{297}{718}, -\frac{77}{359}, -\frac{33}{718}, \frac{88}{359}, -\frac{33}{359}, \frac{55}{718})$ $- \frac{11}{359}\sqrt{273}e^3 \otimes e_8 + \frac{11}{359}\sqrt{370}e^2 \otimes e_4$	{1268, 14568, 2356, 346}
841:30	$0, 0, 0, 0, \frac{11}{359}\sqrt{195}e^{12}, \frac{11}{359}\sqrt{51}e^{13}, \frac{11}{359}\sqrt{141}e^{24},$ $\frac{55}{359}\sqrt{2}e^{16} + \frac{11}{359}\sqrt{303}e^{25}$	$(-\frac{121}{718}, \frac{44}{359}, \frac{297}{718}, -\frac{77}{359}, -\frac{33}{718}, \frac{88}{359}, -\frac{33}{359}, \frac{55}{718})$ $+ \frac{11}{359}\sqrt{273}e^3 \otimes e_8 + \frac{11}{359}\sqrt{370}e^2 \otimes e_4$	{1268, 14568, 2356, 346}
841:31	$0, 0, 0, 0, -\frac{1}{47}\sqrt{142}e^{12}, \frac{1}{47}\sqrt{142}e^{13}, \frac{1}{47}\sqrt{1207}e^{14},$ $\frac{1}{94}\sqrt{3337}e^{25} + \frac{1}{94}\sqrt{3337}e^{36}$	$(-\frac{4}{47}, -\frac{3}{188}, -\frac{3}{188}, \frac{30}{47}, -\frac{19}{188}, -\frac{19}{188}, \frac{26}{47}, -\frac{11}{94})$ $+ \frac{1}{47}\sqrt{2698}e^4 \otimes e_8$	{123456, 1245, 14, 238, 268, 568, 123456, 1245, 14, 238, 268, 568}
841:31	$0, 0, 0, 0, \frac{1}{47}\sqrt{142}e^{12}, \frac{1}{47}\sqrt{142}e^{13}, \frac{1}{47}\sqrt{1207}e^{14},$ $\frac{1}{94}\sqrt{3337}e^{25} + \frac{1}{94}\sqrt{3337}e^{36}$	$(-\frac{4}{47}, -\frac{3}{188}, -\frac{3}{188}, \frac{30}{47}, -\frac{19}{188}, -\frac{19}{188}, \frac{26}{47}, -\frac{11}{94})$ $+ \frac{1}{47}\sqrt{2698}e^4 \otimes e_8$	{123456, 1245, 14, 238, 268, 568, 123456, 1245, 14, 238, 268, 568}
841:31	$0, 0, 0, 0, -\frac{1}{91}\sqrt{4845}e^{12}, \frac{1}{91}\sqrt{4845}e^{13}, \frac{1}{91}\sqrt{2090}e^{14},$ $\frac{3}{91}\sqrt{95}e^{25} + \frac{3}{91}\sqrt{95}e^{36}$	$(\frac{51}{91}, -\frac{12}{91}, -\frac{12}{91}, -\frac{44}{91}, \frac{3}{7}, \frac{3}{7}, \frac{1}{13}, \frac{27}{91})$ $+ \frac{1}{91}\sqrt{13870}e^1 \otimes e_4$	{1238, 1268, 1568, 23456, 245, 4, 1238, 1268, 1568, 23456, 245, 4}
841:31	$0, 0, 0, 0, \frac{1}{91}\sqrt{4845}e^{12}, \frac{1}{91}\sqrt{4845}e^{13}, \frac{1}{91}\sqrt{2090}e^{14},$ $\frac{3}{91}\sqrt{95}e^{25} + \frac{3}{91}\sqrt{95}e^{36}$	$(\frac{51}{91}, -\frac{12}{91}, -\frac{12}{91}, -\frac{44}{91}, \frac{3}{7}, \frac{3}{7}, \frac{1}{13}, \frac{27}{91})$ $+ \frac{1}{91}\sqrt{13870}e^1 \otimes e_4$	{1238, 1268, 1568, 23456, 245, 4, 1238, 1268, 1568, 23456, 245, 4}
841:31	$0, 0, 0, 0, -\frac{4}{369}\sqrt{3458}e^{12}, \frac{2}{369}\sqrt{6251}e^{13}, \frac{4}{369}\sqrt{3458}e^{14},$ $\frac{2}{369}\sqrt{17290}e^{25} + \frac{14}{369}\sqrt{57}e^{36}$	$(-\frac{94}{369}, \frac{15}{41}, \frac{15}{41}, -\frac{37}{369}, \frac{1}{9}, \frac{1}{9}, -\frac{131}{369}, \frac{176}{369})$ $+ \frac{2}{369}\sqrt{40166}e^2 \otimes e_7$	{123468, 1248, 135678, 1578, 235, 256, 347, 467, 123468, 1248, 135678, 1578, 235, 256, 347, 467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:31	$0, 0, 0, 0, \frac{4}{369}\sqrt{3458e^{12}}, \frac{2}{369}\sqrt{6251e^{13}}, \frac{4}{369}\sqrt{3458e^{14}},$ $\frac{2}{369}\sqrt{17290e^{25}} + \frac{14}{369}\sqrt{57e^{36}}$	$(-\frac{94}{369}, \frac{15}{41}, \frac{15}{41}, -\frac{37}{369}, \frac{1}{9}, \frac{1}{9}, -\frac{131}{369}, \frac{176}{369})$ $+ \frac{1}{369}\sqrt{40166e^2} \otimes e_7$	{123468, 1248, 135678, 1578, 235, 256, 347, 467, 123468, 1248, 135678, 1578, 235, 256, 347, 467}
841:33	$0, 0, 0, 0, \frac{1}{81}\sqrt{1218e^{12}}, \frac{1}{81}\sqrt{2378e^{13}}, \frac{2}{81}\sqrt{493e^{24}},$ $\frac{1}{81}\sqrt{1218e^{15}} + \frac{2}{81}\sqrt{493e^{36}}$	$(\frac{13}{81}, -\frac{1}{81}, \frac{2}{27}, -\frac{22}{81}, \frac{4}{27}, \frac{19}{81}, -\frac{23}{81}, \frac{25}{81})$ $+ \frac{1}{81}\sqrt{4002e^3} \otimes e_7$	{123458, 125678, 356, 457}
841:33	$0, 0, 0, 0, \frac{52}{1977}\sqrt{30e^{12}}, \frac{52}{1977}\sqrt{39e^{13}}, \frac{26}{1977}\sqrt{619e^{24}},$ $\frac{26}{1977}\sqrt{547e^{15}} + \frac{52}{659}\sqrt{5e^{36}}$	$(\frac{104}{659}, -\frac{494}{1977}, -\frac{91}{1977}, \frac{156}{659}, -\frac{182}{1977}, \frac{221}{1977}, -\frac{26}{1977}, \frac{130}{1977})$ $+ \frac{26}{1977}\sqrt{842e^4} \otimes e_8 + \frac{26}{1977}\sqrt{890e^1} \otimes e_7$	{3467, 47}
841:33	$0, 0, 0, 0, \frac{9}{3413}\sqrt{1370e^{12}}, \frac{9}{3413}\sqrt{2074e^{13}}, \frac{18}{3413}\sqrt{683e^{24}},$ $\frac{9}{3413}\sqrt{458e^{15}} + \frac{18}{3413}\sqrt{607e^{36}}$	$(\frac{225}{3413}, -\frac{333}{3413}, -\frac{54}{3413}, \frac{198}{3413}, -\frac{108}{3413}, \frac{171}{3413}, -\frac{135}{3413}, \frac{117}{3413})$ $+ \frac{387}{3413}\sqrt{2e^3} \otimes e_7 + \frac{72}{3413}\sqrt{38e^4} \otimes e_8$	{125678, 457}
841:33	$0, 0, 0, 0, \frac{2}{1361}\sqrt{36190e^{12}}, \frac{2}{1361}\sqrt{1034e^{13}}, \frac{6}{1361}\sqrt{27401e^{24}},$ $\frac{22}{1361}\sqrt{1457e^{15}} + \frac{4}{1361}\sqrt{43945e^{36}}$	$(-\frac{4}{1361}, -\frac{142}{1361}, -\frac{73}{1361}, \frac{884}{1361}, -\frac{146}{1361}, -\frac{77}{1361}, \frac{742}{1361}, -\frac{150}{1361})$ $+ \frac{4}{1361}\sqrt{141658e^4} \otimes e_8$	{123456, 1245, 358, 568}
841:33	$0, 0, 0, 0, \frac{342}{1813}\sqrt{6e^{12}}, \frac{38}{1813}\sqrt{114e^{13}}, \frac{38}{1813}\sqrt{241e^{24}},$ $\frac{38}{1813}\sqrt{381e^{15}} + \frac{152}{1813}\sqrt{3e^{36}}$	$(\frac{228}{1813}, \frac{114}{1813}, \frac{171}{1813}, -\frac{608}{1813}, \frac{342}{1813}, \frac{57}{1813}, -\frac{494}{1813}, \frac{570}{1813})$ $+ \frac{684}{1813}\sqrt{3e^1} \otimes e_7 + \frac{76}{1813}\sqrt{151e^2} \otimes e_4$	{235678, 2578}
841:33	$0, 0, 0, 0, \frac{6}{1385}\sqrt{13462e^{12}}, \frac{6}{1385}\sqrt{13038e^{13}}, \frac{6}{1385}\sqrt{19981e^{24}},$ $\frac{6}{1385}\sqrt{20829e^{15}} + \frac{12}{1385}\sqrt{530e^{36}}$	$(\frac{492}{1385}, -\frac{358}{1385}, \frac{67}{1385}, -\frac{104}{1385}, \frac{134}{1385}, \frac{559}{1385}, -\frac{462}{1385}, \frac{626}{1385})$ $+ \frac{12}{1385}\sqrt{14734e^1} \otimes e_7$	{135, 156, 235678, 2578}
841:33	$0, 0, 0, 0, \frac{18}{1265}\sqrt{4638e^{12}}, \frac{2}{1265}\sqrt{88122e^{13}}, \frac{2}{1265}\sqrt{61067e^{24}},$ $\frac{2}{1265}\sqrt{81165e^{15}} + \frac{8}{1265}\sqrt{2319e^{36}}$	$(-\frac{228}{1265}, \frac{78}{115}, \frac{63}{253}, -\frac{688}{1265}, \frac{126}{253}, \frac{87}{1265}, \frac{34}{253}, \frac{402}{1265})$ $+ \frac{4}{1265}\sqrt{196342e^2} \otimes e_4$	{13456, 145, 2358, 2568}
841:33	$0, 0, 0, 0, \frac{75}{1781}\sqrt{82e^{12}}, \frac{25}{1781}\sqrt{1626e^{13}}, \frac{50}{1781}\sqrt{337e^{24}},$ $\frac{25}{1781}\sqrt{834e^{15}} + \frac{50}{1781}\sqrt{345e^{36}}$	$(\frac{225}{1781}, \frac{75}{1781}, \frac{150}{1781}, -\frac{550}{1781}, \frac{300}{1781}, \frac{375}{1781}, -\frac{475}{1781}, \frac{525}{1781})$ $+ \frac{25}{1781}\sqrt{2802e^3} \otimes e_7 + \frac{400}{1781}e^2 \otimes e_4$	{125678, 457}
841:34	$0, 0, 0, 0, -\frac{2}{17}\sqrt{30e^{12}}, \frac{2}{17}\sqrt{30e^{13}}, \frac{4}{17}\sqrt{10e^{24}},$ $\frac{2}{17}\sqrt{30e^{25}} + \frac{2}{17}\sqrt{30e^{36}}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{26e^2} \otimes e_4 + \frac{6}{17}\sqrt{6e^3} \otimes e_7$	{123458, 138, 2346, 356, 123458, 138, 2346, 356}
841:34	$0, 0, 0, 0, \frac{2}{17}\sqrt{30e^{12}}, \frac{2}{17}\sqrt{30e^{13}}, \frac{4}{17}\sqrt{10e^{24}},$ $\frac{2}{17}\sqrt{30e^{25}} + \frac{2}{17}\sqrt{30e^{36}}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{26e^2} \otimes e_4 + \frac{6}{17}\sqrt{6e^3} \otimes e_7$	{123458, 138, 2346, 356, 123458, 138, 2346, 356}
841:34	$0, 0, 0, 0, -\frac{1}{81}\sqrt{1218e^{12}}, \frac{2}{81}\sqrt{493e^{13}}, \frac{1}{81}\sqrt{2378e^{24}},$ $\frac{1}{81}\sqrt{1218e^{15}} + \frac{2}{81}\sqrt{493e^{36}}$	$(-\frac{1}{81}, \frac{13}{81}, \frac{13}{81}, -\frac{29}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{16}{81}, \frac{25}{81})$ $+ \frac{1}{81}\sqrt{4002e^3} \otimes e_7$	{123458, 125678, 138, 14678, 2346, 27, 356, 457, 123458, 125678, 138, 14678, 2346, 27, 356, 457}
841:34	$0, 0, 0, 0, \frac{1}{81}\sqrt{1218e^{12}}, \frac{2}{81}\sqrt{493e^{13}}, \frac{1}{81}\sqrt{2378e^{24}},$ $\frac{1}{81}\sqrt{1218e^{15}} + \frac{2}{81}\sqrt{493e^{36}}$	$(-\frac{1}{81}, \frac{13}{81}, \frac{13}{81}, -\frac{29}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{16}{81}, \frac{25}{81})$ $+ \frac{1}{81}\sqrt{4002e^3} \otimes e_7$	{123458, 125678, 138, 14678, 2346, 27, 356, 457, 123458, 125678, 138, 14678, 2346, 27, 356, 457}
841:34	$0, 0, 0, 0, -\frac{3}{157}\sqrt{42e^{12}}, \frac{9}{157}\sqrt{38e^{13}}, \frac{30}{157}\sqrt{6e^{24}},$ $\frac{3}{157}\sqrt{42e^{25}} + \frac{9}{157}\sqrt{38e^{36}}$	$(\frac{57}{157}, -\frac{36}{157}, -\frac{36}{157}, \frac{39}{157}, \frac{21}{157}, \frac{21}{157}, \frac{3}{157}, -\frac{15}{157})$ $+ \frac{12}{157}\sqrt{51e^1} \otimes e_7 + \frac{12}{157}\sqrt{51e^4} \otimes e_8$	{1358, 1568, 3467, 47, 1358, 1568, 3467, 47}
841:34	$0, 0, 0, 0, \frac{3}{157}\sqrt{42e^{12}}, \frac{9}{157}\sqrt{38e^{13}}, \frac{30}{157}\sqrt{6e^{24}},$ $\frac{3}{157}\sqrt{42e^{25}} + \frac{9}{157}\sqrt{38e^{36}}$	$(\frac{57}{157}, -\frac{36}{157}, -\frac{36}{157}, \frac{39}{157}, \frac{21}{157}, \frac{21}{157}, \frac{3}{157}, -\frac{15}{157})$ $+ \frac{12}{157}\sqrt{51e^1} \otimes e_7 + \frac{12}{157}\sqrt{51e^4} \otimes e_8$	{1358, 1568, 3467, 47, 1358, 1568, 3467, 47}
841:34	$0, 0, 0, 0, -\frac{9}{953}\sqrt{5e^{12}}, \frac{3}{953}\sqrt{61e^{13}}, \frac{5}{953}\sqrt{34e^{24}},$ $\frac{1}{953}\sqrt{239e^{25}} + \frac{1}{953}\sqrt{715e^{36}}$	$(\frac{20}{953}, -\frac{11}{953}, -\frac{11}{953}, -\frac{1}{953}, \frac{9}{953}, \frac{9}{953}, -\frac{12}{953}, -\frac{2}{953})$ $+ \frac{23}{953}\sqrt{2e^3} \otimes e_7 + \frac{2}{953}\sqrt{166e^4} \otimes e_8$	{125678, 138, 2346, 457, 125678, 138, 2346, 457}
841:34	$0, 0, 0, 0, \frac{9}{953}\sqrt{5e^{12}}, \frac{3}{953}\sqrt{61e^{13}}, \frac{5}{953}\sqrt{34e^{24}},$ $\frac{1}{953}\sqrt{239e^{25}} + \frac{1}{953}\sqrt{715e^{36}}$	$(\frac{20}{953}, -\frac{11}{953}, -\frac{11}{953}, -\frac{1}{953}, \frac{9}{953}, \frac{9}{953}, -\frac{12}{953}, -\frac{2}{953})$ $+ \frac{23}{953}\sqrt{2e^3} \otimes e_7 + \frac{2}{953}\sqrt{166e^4} \otimes e_8$	{125678, 138, 2346, 457, 125678, 138, 2346, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:34	$0, 0, 0, 0, -\frac{1}{77}\sqrt{4209}e^{12}, \frac{1}{77}\sqrt{915}e^{13}, \frac{1}{77}\sqrt{2318}e^{24},$ $\frac{1}{77}\sqrt{4209}e^{25} + \frac{1}{77}\sqrt{915}e^{36}$	$(-\frac{15}{77}, \frac{27}{77}, \frac{27}{77}, -\frac{34}{77}, \frac{12}{77}, \frac{12}{77}, -\frac{1}{11}, \frac{39}{77})$ $+ \frac{1}{77}\sqrt{7930}e^2 \otimes e_4$	{12368, 128, 134568, 1458, 235, 256, 34, 46, 12368, 128, 134568, 1458, 235, 256, 34, 46}
841:34	$0, 0, 0, 0, \frac{1}{77}\sqrt{4209}e^{12}, \frac{1}{77}\sqrt{915}e^{13}, \frac{1}{77}\sqrt{2318}e^{24},$ $\frac{1}{77}\sqrt{4209}e^{25} + \frac{1}{77}\sqrt{915}e^{36}$	$(-\frac{15}{77}, \frac{27}{77}, \frac{27}{77}, -\frac{34}{77}, \frac{12}{77}, \frac{12}{77}, -\frac{1}{11}, \frac{39}{77})$ $+ \frac{1}{77}\sqrt{7930}e^2 \otimes e_4$	{12368, 128, 134568, 1458, 235, 256, 34, 46, 12368, 128, 134568, 1458, 235, 256, 34, 46}
841:36	$0, 0, 0, 0, \frac{26}{675}\sqrt{177}e^{12}, \frac{91}{675}\sqrt{30}e^{13}, \frac{13}{675}\sqrt{978}e^{14} + \frac{13}{225}\sqrt{10}e^{23},$ $\frac{26}{675}\sqrt{381}e^{16} + \frac{26}{225}\sqrt{7}e^{25}$	$(\frac{221}{675}, \frac{52}{675}, -\frac{13}{75}, -\frac{286}{675}, \frac{91}{225}, \frac{104}{675}, -\frac{13}{135}, \frac{13}{27})$ $+ \frac{26}{675}\sqrt{843}e^1 \otimes e_4$	{126, 3468}
841:36	$0, 0, 0, 0, \frac{82}{2065}\sqrt{47}e^{12}, \frac{41}{2065}\sqrt{38}e^{13},$ $\frac{41}{2065}\sqrt{1506}e^{14} + \frac{41}{2065}\sqrt{690}e^{23}, \frac{82}{2065}\sqrt{113}e^{16} + \frac{164}{2065}\sqrt{91}e^{25}$	$(-\frac{533}{2065}, \frac{82}{2065}, \frac{697}{2065}, \frac{1312}{2065}, -\frac{451}{2065}, \frac{164}{2065}, \frac{779}{2065}, -\frac{369}{2065})$ $+ \frac{902}{2065}\sqrt{7}e^4 \otimes e_8$	{12456, 3568}
841:37	$0, 0, 0, 0, -\frac{2}{35}\sqrt{5}e^{12}, \frac{2}{35}\sqrt{5}e^{13}, \frac{2}{7}\sqrt{6}e^{14} + \frac{2}{35}\sqrt{110}e^{23},$ $\frac{2}{35}\sqrt{115}e^{25} + \frac{2}{35}\sqrt{115}e^{36}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{4}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0)$ $+ \frac{2}{35}\sqrt{290}e^4 \otimes e_8$	{12378, 15678, 234567, 47, 12378, 15678, 234567, 47}
841:37	$0, 0, 0, 0, \frac{2}{35}\sqrt{5}e^{12}, \frac{2}{35}\sqrt{5}e^{13}, \frac{2}{7}\sqrt{6}e^{14} + \frac{2}{35}\sqrt{110}e^{23},$ $\frac{2}{35}\sqrt{115}e^{25} + \frac{2}{35}\sqrt{115}e^{36}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{4}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0)$ $+ \frac{2}{35}\sqrt{290}e^4 \otimes e_8$	{12378, 15678, 234567, 47, 12378, 15678, 234567, 47}
841:37	$0, 0, 0, 0, -\frac{13}{172}\sqrt{109}e^{12}, \frac{13}{172}\sqrt{109}e^{13}, \frac{13}{172}\sqrt{30}e^{14} + \frac{13}{172}\sqrt{62}e^{23},$ $\frac{13}{43}\sqrt{2}e^{25} + \frac{13}{43}\sqrt{2}e^{36}$	$(\frac{39}{86}, -\frac{13}{344}, -\frac{13}{344}, -\frac{91}{172}, \frac{143}{344}, \frac{143}{344}, -\frac{13}{172}, \frac{65}{172})$ $+ \frac{13}{172}\sqrt{278}e^1 \otimes e_4$	{1268, 245, 1268, 245}
841:37	$0, 0, 0, 0, \frac{13}{172}\sqrt{109}e^{12}, \frac{13}{172}\sqrt{109}e^{13}, \frac{13}{172}\sqrt{30}e^{14} + \frac{13}{172}\sqrt{62}e^{23},$ $\frac{13}{43}\sqrt{2}e^{25} + \frac{13}{43}\sqrt{2}e^{36}$	$(\frac{39}{86}, -\frac{13}{344}, -\frac{13}{344}, -\frac{91}{172}, \frac{143}{344}, \frac{143}{344}, -\frac{13}{172}, \frac{65}{172})$ $+ \frac{13}{172}\sqrt{278}e^1 \otimes e_4$	{1268, 245, 1268, 245}
841:39	$0, 0, 0, 0, \frac{690}{1087}e^{12}, \frac{46}{1087}\sqrt{69}e^{13}, \frac{46}{1087}\sqrt{263}e^{14},$ $\frac{92}{1087}\sqrt{19}e^{15} + \frac{46}{1087}\sqrt{218}e^{24} + \frac{46}{1087}\sqrt{21}e^{36}$	$(-\frac{138}{1087}, \frac{644}{1087}, \frac{253}{1087}, -\frac{276}{1087}, \frac{506}{1087}, \frac{115}{1087}, -\frac{414}{1087}, \frac{368}{1087})$ $+ \frac{966}{1087}\sqrt{2}e^2 \otimes e_7$	{12346, 124, 3478, 4678}
841:39	$0, 0, 0, 0, \frac{690}{1087}e^{12}, \frac{46}{1087}\sqrt{69}e^{13}, \frac{46}{1087}\sqrt{263}e^{14},$ $\frac{92}{1087}\sqrt{19}e^{15} + \frac{46}{1087}\sqrt{218}e^{24} + \frac{46}{1087}\sqrt{21}e^{36}$	$(-\frac{138}{1087}, \frac{644}{1087}, \frac{253}{1087}, -\frac{276}{1087}, \frac{506}{1087}, \frac{115}{1087}, -\frac{414}{1087}, \frac{368}{1087})$ $- \frac{966}{1087}\sqrt{2}e^2 \otimes e_7$	{12346, 124, 3478, 4678}
841:39	$0, 0, 0, 0, \frac{31}{2093}\sqrt{818}e^{12}, \frac{31}{2093}\sqrt{1586}e^{13}, \frac{62}{2093}\sqrt{431}e^{14},$ $\frac{31}{2093}\sqrt{1478}e^{15} + \frac{62}{2093}\sqrt{69}e^{24} + \frac{186}{2093}\sqrt{55}e^{36}$	$(-\frac{31}{299}, \frac{837}{2093}, \frac{310}{2093}, -\frac{62}{299}, \frac{620}{2093}, \frac{93}{2093}, -\frac{93}{299}, \frac{31}{161})$ $+ \frac{31}{2093}\sqrt{3606}e^3 \otimes e_7$	{123458, 457}
841:40	$0, 0, 0, 0, -\frac{12}{149}\sqrt{7}e^{12}, \frac{4}{149}\sqrt{157}e^{13}, \frac{4}{149}\sqrt{178}e^{24},$ $\frac{4}{149}\sqrt{110}e^{14} + \frac{12}{149}\sqrt{7}e^{25} + \frac{4}{149}\sqrt{157}e^{36}$	$(\frac{26}{149}, -\frac{8}{149}, -\frac{8}{149}, -\frac{16}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{24}{149}, \frac{10}{149})$ $+ \frac{4}{149}\sqrt{262}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
841:40	$0, 0, 0, 0, \frac{12}{149}\sqrt{7}e^{12}, \frac{4}{149}\sqrt{157}e^{13}, \frac{4}{149}\sqrt{178}e^{24},$ $\frac{4}{149}\sqrt{110}e^{14} + \frac{12}{149}\sqrt{7}e^{25} + \frac{4}{149}\sqrt{157}e^{36}$	$(\frac{26}{149}, -\frac{8}{149}, -\frac{8}{149}, -\frac{16}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{24}{149}, \frac{10}{149})$ $+ \frac{4}{149}\sqrt{262}e^3 \otimes e_7$	{123458, 14678, 2346, 457, 123458, 14678, 2346, 457}
841:42	$0, 0, 0, 0, \frac{1}{505}\sqrt{1158}e^{12}, \frac{2}{505}\sqrt{498}e^{13}, \frac{4}{505}\sqrt{141}e^{24},$ $\frac{4}{505}\sqrt{141}e^{16} + \frac{6}{505}\sqrt{22}e^{25} + \frac{2}{505}\sqrt{447}e^{34}$	$(-\frac{2}{101}, \frac{7}{505}, \frac{24}{505}, -\frac{4}{101}, -\frac{3}{505}, \frac{14}{505}, -\frac{13}{505}, \frac{4}{505})$ $+ \frac{3}{505}\sqrt{298}e^1 \otimes e_7$	{123458, 457}
841:43	$0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{4}\sqrt{10}e^{23},$ $\frac{1}{4}\sqrt{10}e^{14} + \frac{1}{2}e^{25} + \frac{1}{2}e^{36}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_7$	{1234, 1456, 24578, 1234, 1456, 24578}
841:43	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{4}\sqrt{10}e^{23}, \frac{1}{4}\sqrt{10}e^{14} + \frac{1}{2}e^{25} + \frac{1}{2}e^{36}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_7$	{1234, 1456, 24578, 1234, 1456, 24578}
841:43	$0, 0, 0, 0, -\frac{1}{4}\sqrt{11}e^{12}, \frac{1}{4}\sqrt{11}e^{13}, \frac{1}{4}\sqrt{10}e^{23},$ $\frac{1}{4}\sqrt{10}e^{14} + \frac{1}{4}\sqrt{6}e^{25} + \frac{1}{4}\sqrt{6}e^{36}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_4$	{234567, 245, 47, 234567, 245, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:43	$0, 0, 0, 0, \frac{1}{4}\sqrt{11}e^{12}, \frac{1}{4}\sqrt{11}e^{13}, \frac{1}{4}\sqrt{10}e^{23},$ $\frac{1}{4}\sqrt{10}e^{14} + \frac{1}{4}\sqrt{6}e^{25} + \frac{1}{4}\sqrt{6}e^{36}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_4$	{234567, 245, 47, 234567, 245, 47}
841:44	$0, 0, 0, 0, \frac{26}{591}\sqrt{345}e^{12}, \frac{13}{591}\sqrt{1122}e^{13}, \frac{13}{591}\sqrt{1542}e^{23},$ $\frac{52}{197}\sqrt{7}e^{15} + \frac{169}{591}\sqrt{6}e^{24} + \frac{78}{197}e^{36}$	$(-\frac{39}{197}, \frac{91}{197}, \frac{26}{197}, -\frac{78}{197}, \frac{52}{197}, -\frac{13}{197}, \frac{117}{197}, \frac{13}{197})$ $+ \frac{13}{591}\sqrt{2982}e^2 \otimes e_4$	{347, 46}
841:44	$0, 0, 0, 0, \frac{186}{1843}\sqrt{34}e^{12}, \frac{31}{1843}\sqrt{318}e^{13}, \frac{124}{1843}\sqrt{94}e^{23},$ $\frac{62}{1843}\sqrt{478}e^{15} + \frac{62}{1843}\sqrt{293}e^{24} + \frac{124}{1843}\sqrt{35}e^{36}$	$(\frac{434}{1843}, -\frac{496}{1843}, -\frac{31}{1843}, \frac{868}{1843}, -\frac{62}{1843}, \frac{403}{1843}, -\frac{527}{1843}, \frac{372}{1843})$ $+ \frac{31}{1843}\sqrt{3122}e^1 \otimes e_7$	{123468, 347}
841:47	$0, 0, 0, 0, \frac{26}{651}\sqrt{129}e^{12}, \frac{26}{651}\sqrt{399}e^{13}, \frac{26}{651}\sqrt{141}e^{23},$ $\frac{13}{651}\sqrt{1326}e^{16} + \frac{13}{651}\sqrt{246}e^{25} + \frac{13}{651}\sqrt{834}e^{37}$	$(\frac{26}{217}, \frac{26}{217}, \frac{26}{217}, -\frac{143}{217}, \frac{52}{217}, \frac{52}{217}, \frac{52}{217}, \frac{78}{217})$ $+ \frac{78}{217}\sqrt{10}e^1 \otimes e_4$	{12378, 47}
841:49	$0, 0, 0, 0, \frac{3}{187}\sqrt{394}e^{12}, \frac{3}{187}\sqrt{394}e^{34}, \frac{2}{187}\sqrt{5910}e^{13},$ $\frac{1}{187}\sqrt{20094}e^{15} + \frac{2}{187}\sqrt{2561}e^{36}$	$(\frac{5}{11}, -\frac{112}{187}, \frac{8}{187}, \frac{42}{187}, -\frac{27}{187}, \frac{50}{187}, \frac{93}{187}, \frac{58}{187})$ $+ \frac{2}{187}\sqrt{15169}e^1 \otimes e_2$	{13468, 1478, 237, 26}
841:49	$0, 0, 0, 0, \frac{26}{341}\sqrt{15}e^{12}, \frac{26}{341}\sqrt{15}e^{34}, \frac{13}{341}\sqrt{246}e^{13},$ $\frac{52}{341}\sqrt{2}e^{15} + \frac{52}{341}\sqrt{2}e^{36}$	$(\frac{78}{341}, -\frac{91}{341}, \frac{78}{341}, -\frac{91}{341}, -\frac{13}{341}, -\frac{13}{341}, \frac{156}{341}, \frac{65}{341})$ $+ \frac{26}{341}\sqrt{77}e^1 \otimes e_2 + \frac{26}{341}\sqrt{77}e^3 \otimes e_4$	{138, 24}
841:49	$0, 0, 0, 0, \frac{1}{145}\sqrt{11130}e^{12}, \frac{2}{145}\sqrt{318}e^{34}, \frac{4}{145}\sqrt{795}e^{13},$ $\frac{3}{145}\sqrt{106}e^{15} + \frac{3}{145}\sqrt{106}e^{36}$	$(-\frac{44}{145}, \frac{22}{29}, -\frac{1}{29}, \frac{32}{145}, \frac{66}{145}, \frac{27}{145}, -\frac{49}{145}, \frac{22}{145})$ $+ \frac{3}{145}\sqrt{4134}e^2 \otimes e_7$	{123, 14578, 256, 34678}
841:49	$0, 0, 0, 0, \frac{5}{106}\sqrt{34}e^{12}, \frac{5}{53}\sqrt{7}e^{34}, \frac{30}{53}e^{13},$ $\frac{10}{53}\sqrt{3}e^{15} + \frac{25}{106}\sqrt{2}e^{36}$	$(\frac{10}{53}, -\frac{15}{53}, -\frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, \frac{15}{53}, 0, \frac{5}{53})$ $+ \frac{35}{53}e^1 \otimes e_2 + \frac{5}{106}\sqrt{186}e^4 \otimes e_7$	{178, 246}
841:50	$0, 0, 0, 0, \frac{1}{207}\sqrt{2270}e^{12}, \frac{1}{207}\sqrt{2270}e^{34}, \frac{1}{207}\sqrt{24970}e^{13},$ $\frac{2}{207}\sqrt{454}e^{25} + \frac{2}{207}\sqrt{5902}e^{36}$	$(-\frac{10}{207}, \frac{49}{207}, \frac{35}{69}, -\frac{122}{207}, \frac{13}{69}, -\frac{17}{207}, \frac{95}{207}, \frac{88}{207})$ $+ \frac{1}{207}\sqrt{75818}e^3 \otimes e_4$	{12358, 138, 24, 45}
841:50	$0, 0, 0, 0, \frac{3}{317}\sqrt{646}e^{12}, \frac{228}{317}e^{34}, \frac{6}{317}\sqrt{1691}e^{13},$ $\frac{18}{317}\sqrt{57}e^{25} + \frac{3}{317}\sqrt{1330}e^{36}$	$(-\frac{17}{317}, \frac{45}{317}, -\frac{84}{317}, \frac{241}{317}, \frac{28}{317}, \frac{157}{317}, -\frac{101}{317}, \frac{73}{317})$ $+ \frac{39}{317}\sqrt{114}e^4 \otimes e_7$	{12345, 134, 23678, 35678}
841:50	$0, 0, 0, 0, \frac{5}{441}\sqrt{658}e^{12}, \frac{5}{441}\sqrt{434}e^{34}, \frac{10}{441}\sqrt{511}e^{13},$ $\frac{50}{441}\sqrt{14}e^{25} + \frac{5}{441}\sqrt{182}e^{36}$	$(-\frac{20}{63}, \frac{20}{63}, \frac{5}{21}, -\frac{10}{63}, 0, \frac{5}{63}, -\frac{5}{63}, \frac{20}{63})$ $+ \frac{10}{147}\sqrt{91}e^2 \otimes e_7 + \frac{10}{63}\sqrt{11}e^3 \otimes e_4$	{14578, 37}
841:50	$0, 0, 0, 0, \frac{6}{91}\sqrt{70}e^{12}, \frac{3}{91}\sqrt{70}e^{34}, \frac{3}{91}\sqrt{434}e^{13},$ $\frac{18}{91}\sqrt{14}e^{25} + \frac{3}{91}\sqrt{238}e^{36}$	$(-\frac{5}{13}, \frac{5}{13}, \frac{1}{13}, \frac{3}{13}, 0, \frac{4}{13}, -\frac{4}{13}, \frac{5}{13})$ $+ \frac{15}{91}\sqrt{42}e^2 \otimes e_7$	{123468, 14578, 256, 37}
841:51	$0, 0, 0, 0, \frac{16}{1553}\sqrt{3534}e^{12}, \frac{2}{1553}\sqrt{20026}e^{34}, \frac{2}{1553}\sqrt{236189}e^{13},$ $\frac{2}{1553}\sqrt{321005}e^{25} + \frac{2}{1553}\sqrt{48298}e^{46}$	$(-\frac{486}{1553}, \frac{624}{1553}, -\frac{68}{1553}, \frac{415}{1553}, \frac{138}{1553}, \frac{347}{1553}, -\frac{554}{1553}, \frac{762}{1553})$ $+ \frac{38}{1553}\sqrt{2046}e^2 \otimes e_7$	{123468, 1238, 245, 256}
841:57	$0, 0, 0, 0, \frac{5}{329}\sqrt{154}e^{12}, \frac{5}{329}\sqrt{1442}e^{34}, \frac{10}{329}\sqrt{413}e^{13},$ $\frac{5}{329}\sqrt{574}e^{15} + \frac{10}{47}\sqrt{7}e^{23} + \frac{10}{329}\sqrt{546}e^{46}$	$(-\frac{5}{47}, \frac{20}{47}, -\frac{10}{47}, \frac{10}{47}, \frac{15}{47}, 0, -\frac{15}{47}, \frac{10}{47})$ $+ \frac{10}{329}\sqrt{966}e^4 \otimes e_7$	{127, 2456}
841:57	$0, 0, 0, 0, \frac{46}{557}\sqrt{42}e^{12}, \frac{23}{557}\sqrt{138}e^{34}, \frac{46}{557}\sqrt{77}e^{13},$ $\frac{23}{557}\sqrt{142}e^{15} + \frac{23}{557}\sqrt{302}e^{23} + \frac{46}{557}\sqrt{3}e^{46}$	$(-\frac{69}{557}, \frac{322}{557}, -\frac{138}{557}, \frac{161}{557}, \frac{253}{557}, \frac{23}{557}, -\frac{207}{557}, \frac{184}{557})$ $+ \frac{69}{557}\sqrt{102}e^2 \otimes e_7$	{123, 12346}
841:58	$0, 0, 0, 0, \frac{3}{85}\sqrt{6}e^{12}, \frac{6}{85}\sqrt{78}e^{34}, \frac{12}{85}\sqrt{30}e^{13},$ $\frac{9}{85}\sqrt{26}e^{15} + \frac{12}{85}\sqrt{30}e^{24} + \frac{9}{85}\sqrt{26}e^{36}$	$(-\frac{12}{85}, \frac{6}{17}, \frac{3}{17}, -\frac{24}{85}, \frac{18}{85}, -\frac{9}{85}, \frac{3}{85}, \frac{6}{85})$ $+ \frac{27}{85}\sqrt{6}e^2 \otimes e_7$	{167, 357}
841:67	$0, 0, 0, 0, -\frac{13}{172}\sqrt{78}e^{12}, \frac{13}{172}\sqrt{78}e^{13}, \frac{13}{172}\sqrt{30}e^{14},$ $\frac{13}{172}\sqrt{62}e^{17} + \frac{13}{172}e^{25} + \frac{13}{172}e^{36}$	$(\frac{39}{86}, -\frac{13}{344}, -\frac{13}{344}, -\frac{91}{172}, \frac{143}{344}, \frac{143}{344}, -\frac{13}{172}, \frac{65}{172})$ $+ \frac{13}{172}\sqrt{278}e^1 \otimes e_4$	{1238, 1268, 1358, 1568, 23456, 245, 346, 4, 1238, 1268, 1358, 1568, 23456, 245, 346, 4}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
841:67	$0, 0, 0, 0, \frac{13}{172}\sqrt{78}e^{12}, \frac{13}{172}\sqrt{78}e^{13}, \frac{13}{172}\sqrt{30}e^{14}, \frac{13}{172}\sqrt{62}e^{17} + \frac{13}{172}e^{25} + \frac{13}{172}e^{36}$	$(\frac{39}{86}, -\frac{13}{344}, -\frac{13}{344}, -\frac{91}{172}, \frac{143}{344}, \frac{143}{344}, -\frac{13}{172}, \frac{65}{172}) + \frac{13}{172}\sqrt{278}e^1 \otimes e_4$	{1238, 1268, 1568, 23456, 245, 4, 1238, 1268, 1568, 23456, 245, 4}
841:67	$0, 0, 0, 0, \frac{13}{172}\sqrt{78}e^{12}, \frac{13}{172}\sqrt{78}e^{13}, \frac{13}{172}\sqrt{30}e^{14}, \frac{13}{172}\sqrt{62}e^{17} + \frac{13}{172}e^{25} + \frac{13}{172}e^{36}$	$(\frac{39}{86}, -\frac{13}{344}, -\frac{13}{344}, -\frac{91}{172}, \frac{143}{344}, \frac{143}{344}, -\frac{13}{172}, \frac{65}{172}) - \frac{13}{172}\sqrt{278}e^1 \otimes e_4$	{1238, 1268, 1568, 23456, 245, 4, 1238, 1268, 1568, 23456, 245, 4}
84:1	$0, 0, 0, 0, \frac{14}{37}\sqrt{2}e^{12}, \frac{14}{37}\sqrt{2}e^{13}, \frac{2}{37}\sqrt{238}e^{23}, \frac{2}{37}\sqrt{238}e^{14}$	$(\frac{3}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{20}{37}, -\frac{1}{37}, -\frac{1}{37}, -\frac{8}{37}, \frac{23}{37}) + \frac{2}{37}\sqrt{434}e^4 \otimes e_7$	{123456, 12578, 14, 2348, 267, 4568}
84:1	$0, 0, 0, 0, \frac{4}{97}\sqrt{2}e^{12}, \frac{8}{97}\sqrt{6}e^{13}, \frac{4}{97}\sqrt{41}e^{23}, \frac{4}{97}\sqrt{41}e^{14}$	$(-\frac{7}{97}, \frac{13}{97}, -\frac{9}{97}, \frac{12}{97}, \frac{6}{97}, -\frac{16}{97}, \frac{4}{97}, \frac{5}{97}) + \frac{12}{97}\sqrt{5}e^4 \otimes e_7 + \frac{8}{97}\sqrt{11}e^2 \otimes e_8$	{123456, 13678, 267, 4568}
84:1	$0, 0, 0, 0, \frac{1}{17}\sqrt{78}e^{12}, \frac{2}{17}\sqrt{26}e^{13}, \frac{2}{17}\sqrt{39}e^{23}, \frac{2}{17}\sqrt{39}e^{14}$	$(-\frac{2}{17}, \frac{8}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{1}{17}, \frac{9}{17}, -\frac{5}{17}) + \frac{2}{17}\sqrt{91}e^2 \otimes e_8$	{12346, 1247, 135678, 158, 235, 2567, 3478, 468}
84:1	$0, 0, 0, 0, \frac{2}{115}\sqrt{1469}e^{12}, \frac{2}{115}\sqrt{1469}e^{13}, \frac{1}{115}\sqrt{4746}e^{23}, \frac{2}{115}\sqrt{565}e^{14}$	$(-\frac{4}{23}, \frac{68}{115}, -\frac{5}{23}, \frac{32}{115}, \frac{48}{115}, -\frac{9}{23}, \frac{43}{115}, \frac{12}{115}) + \frac{1}{115}\sqrt{21018}e^2 \otimes e_6$	{123, 12348, 14568, 156, 2457, 2578, 3467, 3678}
84:1	$0, 0, 0, 0, \frac{4}{205}\sqrt{71}e^{12}, \frac{2}{205}\sqrt{1491}e^{13}, \frac{1}{205}\sqrt{8094}e^{23}, \frac{2}{205}\sqrt{1065}e^{14}$	$(-\frac{8}{41}, \frac{56}{205}, \frac{5}{41}, -\frac{6}{205}, \frac{16}{205}, -\frac{3}{41}, \frac{81}{205}, -\frac{46}{205}) + \frac{2}{41}\sqrt{142}e^3 \otimes e_8 + \frac{9}{205}\sqrt{142}e^2 \otimes e_6$	{12345, 168, 2478, 3567}
84:1	$0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{6}e^{13}, \frac{1}{3}\sqrt{3}e^{23}, \frac{1}{3}\sqrt{3}e^{14}$	$(\frac{1}{2}, 0, 0, -\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, 0, 0) + \frac{1}{3}\sqrt{15}e^1 \otimes e_4$	{1237, 126, 1567, 234567, 245, 47}
84:1	$0, 0, 0, 0, \frac{1}{20}\sqrt{85}e^{12}, \frac{1}{20}\sqrt{85}e^{13}, \frac{1}{20}\sqrt{170}e^{23}, \frac{1}{20}\sqrt{170}e^{14}$	$(\frac{1}{2}, -\frac{7}{40}, -\frac{7}{40}, -\frac{1}{20}, \frac{13}{40}, \frac{13}{40}, -\frac{7}{20}, \frac{9}{20}) + \frac{1}{5}\sqrt{34}e^1 \otimes e_7$	{1234, 1238, 1456, 1568, 24578, 257}
84:1	$0, 0, 0, 0, \frac{1}{203}\sqrt{10918}e^{12}, \frac{2}{203}\sqrt{515}e^{13}, \frac{6}{203}\sqrt{103}e^{23}, \frac{4}{203}\sqrt{206}e^{14}$	$(-\frac{54}{203}, \frac{46}{203}, -\frac{3}{203}, \frac{95}{203}, -\frac{8}{203}, -\frac{57}{203}, \frac{43}{203}, \frac{41}{203}) + \frac{2}{203}\sqrt{4429}e^4 \otimes e_5 + \frac{2}{203}\sqrt{4738}e^2 \otimes e_6$	{1234, 1568, 257, 34678}
84:1	$0, 0, 0, 0, \frac{1}{719}\sqrt{72790}e^{12}, \frac{2}{719}\sqrt{251}e^{13}, \frac{2}{719}\sqrt{11797}e^{23}, \frac{8}{719}\sqrt{1506}e^{14}$	$(\frac{90}{719}, -\frac{154}{719}, -\frac{7}{719}, \frac{187}{719}, -\frac{64}{719}, \frac{83}{719}, -\frac{161}{719}, \frac{277}{719}) + \frac{14}{719}\sqrt{753}e^4 \otimes e_5 + \frac{2}{719}\sqrt{42670}e^1 \otimes e_7$	{12346, 158, 2567, 3478}
84:1	$0, 0, 0, 0, \frac{8}{73}\sqrt{3}e^{12}, \frac{8}{73}\sqrt{2}e^{13}, \frac{8}{73}\sqrt{15}e^{23}, \frac{16}{73}\sqrt{6}e^{14}$	$(-\frac{16}{73}, \frac{28}{73}, -\frac{4}{73}, \frac{12}{73}, \frac{12}{73}, -\frac{20}{73}, \frac{24}{73}, -\frac{4}{73}) + \frac{24}{73}\sqrt{3}e^4 \otimes e_6 + \frac{8}{73}\sqrt{37}e^2 \otimes e_8$	{1247, 135678, 2567, 3478}
84:1	$0, 0, 0, 0, \frac{7}{103}\sqrt{26}e^{12}, \frac{7}{103}\sqrt{26}e^{13}, \frac{6}{103}\sqrt{26}e^{23}, \frac{26}{103}e^{14}$	$(-\frac{26}{103}, \frac{14}{103}, \frac{14}{103}, \frac{23}{103}, -\frac{12}{103}, -\frac{12}{103}, \frac{28}{103}, -\frac{3}{103}) + \frac{1}{103}\sqrt{2418}e^2 \otimes e_6 - \frac{1}{103}\sqrt{2418}e^3 \otimes e_5$	{123, 12348, 14568, 156, 2457, 2578}
84:1	$0, 0, 0, 0, \frac{7}{103}\sqrt{26}e^{12}, \frac{7}{103}\sqrt{26}e^{13}, \frac{6}{103}\sqrt{26}e^{23}, \frac{26}{103}e^{14}$	$(-\frac{26}{103}, \frac{14}{103}, \frac{14}{103}, \frac{23}{103}, -\frac{12}{103}, -\frac{12}{103}, \frac{28}{103}, -\frac{3}{103}) + \frac{1}{103}\sqrt{2418}e^2 \otimes e_6 + \frac{1}{103}\sqrt{2418}e^3 \otimes e_5$	{123, 12348, 14568, 156, 2457, 2578}
84:1	$0, 0, 0, 0, \frac{2}{247}\sqrt{218}e^{12}, \frac{2}{247}\sqrt{218}e^{13}, \frac{1}{247}\sqrt{18530}e^{23}, \frac{6}{247}\sqrt{327}e^{14}$	$(-\frac{16}{247}, \frac{42}{247}, -\frac{51}{247}, \frac{100}{247}, \frac{2}{19}, -\frac{67}{247}, -\frac{9}{247}, \frac{84}{247}) + \frac{1}{247}\sqrt{20274}e^2 \otimes e_6 + \frac{2}{247}\sqrt{6758}e^4 \otimes e_7$	{12578, 13678, 2348, 4568}
84:1	$0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{6}{41}\sqrt{5}e^{13}, \frac{4}{41}\sqrt{10}e^{23}, \frac{3}{41}\sqrt{30}e^{14}$	$(-\frac{10}{41}, \frac{7}{41}, \frac{5}{41}, \frac{7}{41}, -\frac{3}{41}, -\frac{5}{41}, \frac{12}{41}, -\frac{3}{41}) + \frac{1}{41}\sqrt{330}e^4 \otimes e_5 + \frac{1}{41}\sqrt{410}e^2 \otimes e_8$	{12346, 1247, 135678, 158, 235, 2567, 3478, 468}
84:1	$0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{6}{41}\sqrt{5}e^{13}, \frac{4}{41}\sqrt{10}e^{23}, \frac{3}{41}\sqrt{30}e^{14}$	$(-\frac{10}{41}, \frac{7}{41}, \frac{5}{41}, \frac{7}{41}, -\frac{3}{41}, -\frac{5}{41}, \frac{12}{41}, -\frac{3}{41}) - \frac{1}{41}\sqrt{330}e^4 \otimes e_5 + \frac{1}{41}\sqrt{410}e^2 \otimes e_8$	{12346, 1247, 135678, 158, 235, 2567, 3478, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
84:1	$0, 0, 0, 0, \frac{1}{120}\sqrt{2769}e^{12}, \frac{1}{120}\sqrt{2769}e^{13}, \frac{1}{60}\sqrt{39}e^{23}, \frac{1}{60}\sqrt{390}e^{14}$	$(\frac{1}{8}, \frac{21}{80}, -\frac{3}{16}, -\frac{1}{5}, \frac{31}{80}, -\frac{1}{16}, \frac{3}{40}, -\frac{3}{40})$ $+ \frac{1}{120}\sqrt{4290}e^1 \otimes e_4 + \frac{3}{20}\sqrt{13}e^2 \otimes e_6$	{1237, 1567, 245, 346}
84:1	$0, 0, 0, 0, \frac{1}{253}\sqrt{3198}e^{12}, \frac{2}{253}\sqrt{410}e^{13}, \frac{2}{253}\sqrt{1599}e^{23}, \frac{2}{253}\sqrt{1599}e^{14}$	$(\frac{38}{253}, \frac{28}{253}, -\frac{31}{253}, -\frac{51}{253}, \frac{6}{23}, \frac{7}{253}, -\frac{3}{253}, -\frac{13}{253})$ $+ \frac{2}{253}\sqrt{2419}e^2 \otimes e_8 + \frac{6}{253}\sqrt{246}e^1 \otimes e_7$	{12346, 158, 2567, 3478}
84:1	$0, 0, 0, 0, \frac{5}{451}\sqrt{4790}e^{12}, \frac{2}{451}\sqrt{13891}e^{13}, \frac{2}{451}\sqrt{1437}e^{23}, \frac{16}{451}\sqrt{479}e^{14}$	$(-\frac{10}{41}, -\frac{46}{451}, \frac{137}{451}, \frac{323}{451}, -\frac{156}{451}, \frac{27}{451}, \frac{91}{451}, \frac{213}{451})$ $+ \frac{2}{451}\sqrt{87657}e^4 \otimes e_5$	{12346, 1247, 135678, 158, 235, 2567, 3478, 468}
84:1	$0, 0, 0, 0, \frac{2}{191}\sqrt{901}e^{12}, \frac{2}{191}\sqrt{901}e^{13}, \frac{1}{191}\sqrt{4346}e^{23}, \frac{2}{191}\sqrt{371}e^{14}$	$(\frac{28}{191}, \frac{28}{191}, -\frac{53}{191}, \frac{8}{191}, \frac{56}{191}, -\frac{25}{191}, -\frac{25}{191}, \frac{36}{191})$ $+ \frac{4}{191}\sqrt{583}e^1 \otimes e_7 - \frac{9}{191}\sqrt{106}e^2 \otimes e_6$	{1234, 1238, 1456, 1568, 24578, 257, 34678, 367}
84:1	$0, 0, 0, 0, \frac{2}{191}\sqrt{901}e^{12}, \frac{2}{191}\sqrt{901}e^{13}, \frac{1}{191}\sqrt{4346}e^{23}, \frac{2}{191}\sqrt{371}e^{14}$	$(\frac{28}{191}, \frac{28}{191}, -\frac{53}{191}, \frac{8}{191}, \frac{56}{191}, -\frac{25}{191}, -\frac{25}{191}, \frac{36}{191})$ $+ \frac{4}{191}\sqrt{583}e^1 \otimes e_7 + \frac{9}{191}\sqrt{106}e^2 \otimes e_6$	{1234, 1238, 1456, 1568, 24578, 257, 34678, 367}
84:2	$0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{110}e^{13}, \frac{3}{133}\sqrt{305}e^{24}, \frac{3}{133}\sqrt{110}e^{34}$	$(\frac{33}{133}, \frac{27}{266}, -\frac{6}{133}, \frac{51}{266}, \frac{93}{266}, \frac{27}{133}, -\frac{12}{133}, -\frac{9}{38})$ $+ \frac{9}{133}\sqrt{65}e^1 \otimes e_7 + \frac{9}{133}\sqrt{65}e^2 \otimes e_8$	{1234, 1358, 257, 478}
84:2	$0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{6}{11}\sqrt{2}e^{13}, \frac{6}{11}\sqrt{2}e^{24}, \frac{6}{11}e^{34}$	$(\frac{6}{11}, -\frac{3}{11}, 0, 0, \frac{3}{11}, \frac{6}{11}, -\frac{3}{11}, 0)$ $+ \frac{9}{11}\sqrt{2}e^1 \otimes e_7$	{12348, 1246, 135, 1568, 23567, 2578, 34678, 47}
84:2	$0, 0, 0, 0, \frac{2}{29}\sqrt{6}e^{12}, \frac{2}{29}\sqrt{33}e^{13}, \frac{2}{29}\sqrt{33}e^{24}, \frac{2}{29}\sqrt{6}e^{34}$	$(\frac{7}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{7}{29}, \frac{1}{29}, \frac{1}{29}, \frac{1}{29}, \frac{1}{29})$ $+ \frac{2}{29}\sqrt{39}e^1 \otimes e_7 + \frac{2}{29}\sqrt{39}e^4 \otimes e_6$	{123458, 168, 2367}
84:2	$0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{110}e^{13}, \frac{3}{133}\sqrt{305}e^{24}, \frac{3}{133}\sqrt{110}e^{34}$	$(\frac{33}{133}, -\frac{45}{133}, -\frac{6}{133}, \frac{33}{133}, -\frac{12}{133}, \frac{27}{133}, -\frac{12}{133}, \frac{27}{133})$ $+ \frac{9}{133}\sqrt{65}e^1 \otimes e_7 + \frac{9}{133}\sqrt{65}e^4 \otimes e_5$	{1234, 12468, 1358, 156, 235678, 257}
84:2	$0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{110}e^{13}, \frac{3}{133}\sqrt{305}e^{24}, \frac{3}{133}\sqrt{110}e^{34}$	$(\frac{33}{133}, -\frac{45}{133}, -\frac{6}{133}, \frac{33}{133}, -\frac{12}{133}, \frac{27}{133}, -\frac{12}{133}, \frac{27}{133})$ $+ \frac{9}{133}\sqrt{65}e^1 \otimes e_7 - \frac{9}{133}\sqrt{65}e^4 \otimes e_5$	{1234, 12468, 1358, 156, 235678, 257}
84:2	$0, 0, 0, 0, \frac{3}{64}\sqrt{5}e^{12}, \frac{21}{128}\sqrt{2}e^{13}, \frac{21}{128}\sqrt{2}e^{24}, \frac{3}{128}\sqrt{58}e^{34}$	$(\frac{21}{256}, \frac{21}{256}, -\frac{9}{128}, -\frac{9}{128}, \frac{21}{128}, \frac{3}{128}, \frac{3}{256}, -\frac{9}{64})$ $+ \frac{9}{128}\sqrt{13}e^1 \otimes e_7 + \frac{9}{128}\sqrt{13}e^2 \otimes e_6$	{12348, 1568, 34678}
84:3	$0, 0, 0, 0, \frac{5}{61}\sqrt{6}e^{12}, \frac{2}{61}\sqrt{65}e^{13}, \frac{2}{61}\sqrt{65}e^{24}, \frac{1}{61}\sqrt{10}e^{14} + \frac{1}{61}\sqrt{10}e^{23}$	$(-\frac{5}{61}, -\frac{5}{61}, \frac{8}{61}, \frac{8}{61}, -\frac{10}{61}, \frac{3}{61}, \frac{3}{61}, \frac{3}{61})$ $+ \frac{2}{61}\sqrt{70}e^3 \otimes e_7 + \frac{2}{61}\sqrt{70}e^4 \otimes e_6$	{123458, 12567}
84:3	$0, 0, 0, 0, \frac{33}{821}\sqrt{38}e^{12}, \frac{44}{821}\sqrt{14}e^{13}, \frac{11}{821}\sqrt{454}e^{24}, \frac{33}{821}\sqrt{38}e^{14} + \frac{22}{821}\sqrt{101}e^{23}$	$(\frac{22}{821}, -\frac{121}{821}, \frac{165}{821}, \frac{22}{821}, -\frac{99}{821}, \frac{187}{821}, -\frac{99}{821}, \frac{44}{821})$ $- \frac{11}{821}\sqrt{690}e^4 \otimes e_5 + \frac{11}{821}\sqrt{802}e^1 \otimes e_7$	{1246, 1568, 257, 478}
84:3	$0, 0, 0, 0, \frac{33}{821}\sqrt{38}e^{12}, \frac{44}{821}\sqrt{14}e^{13}, \frac{11}{821}\sqrt{454}e^{24}, \frac{33}{821}\sqrt{38}e^{14} + \frac{22}{821}\sqrt{101}e^{23}$	$(\frac{22}{821}, -\frac{121}{821}, \frac{165}{821}, \frac{22}{821}, -\frac{99}{821}, \frac{187}{821}, -\frac{99}{821}, \frac{44}{821})$ $+ \frac{11}{821}\sqrt{690}e^4 \otimes e_5 + \frac{11}{821}\sqrt{802}e^1 \otimes e_7$	{1246, 1568, 257, 478}
84:3	$0, 0, 0, 0, \frac{6}{83}\sqrt{55}e^{12}, \frac{2}{83}\sqrt{935}e^{13}, \frac{2}{83}\sqrt{935}e^{24}, \frac{6}{83}\sqrt{55}e^{14} + \frac{1}{83}\sqrt{1870}e^{23}$	$(\frac{15}{83}, -\frac{20}{83}, \frac{32}{83}, -\frac{3}{83}, -\frac{5}{83}, \frac{47}{83}, -\frac{23}{83}, \frac{12}{83})$ $+ \frac{10}{83}\sqrt{77}e^3 \otimes e_7$	{2346, 278, 3568, 457}
84:3	$0, 0, 0, 0, \frac{7}{317}\sqrt{102}e^{12}, \frac{14}{317}\sqrt{51}e^{13}, \frac{14}{317}\sqrt{51}e^{24}, \frac{14}{317}\sqrt{10}e^{14} + \frac{14}{317}\sqrt{10}e^{23}$	$(\frac{42}{317}, \frac{42}{317}, -\frac{49}{317}, -\frac{49}{317}, \frac{84}{317}, -\frac{7}{317}, -\frac{7}{317}, -\frac{7}{317})$ $+ \frac{14}{317}\sqrt{71}e^1 \otimes e_7 + \frac{14}{317}\sqrt{71}e^2 \otimes e_6$	{12348, 3467}
84:3	$0, 0, 0, 0, \frac{2}{1087}\sqrt{78}e^{12}, \frac{2}{1087}\sqrt{615}e^{13}, \frac{2}{1087}\sqrt{615}e^{24}, \frac{1}{1087}\sqrt{1230}e^{14} + \frac{4}{1087}\sqrt{111}e^{23}$	$(\frac{10}{1087}, \frac{23}{1087}, -\frac{29}{1087}, -\frac{16}{1087}, \frac{33}{1087}, -\frac{19}{1087}, \frac{7}{1087}, -\frac{6}{1087})$ $+ \frac{2}{1087}\sqrt{771}e^4 \otimes e_6 + \frac{4}{1087}\sqrt{183}e^1 \otimes e_7$	{168, 4578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
84:3	$0, 0, 0, 0, \frac{3}{86}\sqrt{183}e^{12}, \frac{3}{86}\sqrt{366}e^{13}, \frac{3}{86}\sqrt{366}e^{24}, \frac{3}{86}\sqrt{183}e^{14} + \frac{1}{43}\sqrt{671}e^{23}$	$(\frac{16}{43}, -\frac{7}{172}, \frac{5}{43}, -\frac{51}{172}, \frac{57}{172}, \frac{21}{43}, -\frac{29}{86}, \frac{13}{172}) + \frac{1}{86}\sqrt{8662}e^1 \otimes e_7$	{1246, 1568, 257, 478}
84:3	$0, 0, 0, 0, \frac{5}{252}\sqrt{1165}e^{12}, \frac{1}{63}\sqrt{1631}e^{13}, \frac{1}{252}\sqrt{6058}e^{24}, \frac{5}{252}\sqrt{19106}e^{14} + \frac{5}{252}\sqrt{1165}e^{23}$	$(-\frac{65}{504}, -\frac{67}{252}, \frac{89}{168}, \frac{11}{28}, -\frac{199}{504}, \frac{101}{252}, \frac{8}{63}, \frac{19}{72}) + \frac{1}{84}\sqrt{10718}e^3 \otimes e_5$	{123, 1567, 258, 3678}
84:3	$0, 0, 0, 0, \frac{14}{449}\sqrt{30}e^{12}, \frac{56}{449}\sqrt{19}e^{13}, \frac{42}{449}\sqrt{22}e^{24}, \frac{14}{449}\sqrt{46}e^{14} + \frac{14}{449}\sqrt{30}e^{23}$	$(-\frac{105}{449}, -\frac{14}{449}, \frac{77}{449}, \frac{168}{449}, -\frac{119}{449}, -\frac{28}{449}, \frac{154}{449}, \frac{63}{449}) + \frac{14}{449}\sqrt{318}e^3 \otimes e_5 + \frac{14}{449}\sqrt{470}e^4 \otimes e_6$	{1347, 4578}
84:3	$0, 0, 0, 0, \frac{87}{2429}\sqrt{110}e^{12}, \frac{232}{2429}\sqrt{21}e^{13}, \frac{58}{2429}\sqrt{177}e^{24}, \frac{174}{2429}e^{14} + \frac{290}{2429}\sqrt{2}e^{23}$	$(\frac{290}{2429}, -\frac{464}{2429}, \frac{667}{2429}, -\frac{87}{2429}, -\frac{174}{2429}, \frac{957}{2429}, -\frac{551}{2429}, \frac{29}{347}) + \frac{174}{2429}\sqrt{53}e^3 \otimes e_5 + \frac{58}{2429}\sqrt{595}e^1 \otimes e_7$	{1568, 257}
84:4	$0, 0, 0, 0, \frac{3}{46}\sqrt{102}e^{12}, \frac{3}{46}\sqrt{102}e^{34}, \frac{3}{46}\sqrt{51}e^{14} - \frac{3}{46}\sqrt{66}e^{23}, \frac{3}{46}\sqrt{51}e^{13} + \frac{3}{46}\sqrt{66}e^{24}$	$(\frac{6}{23}, \frac{6}{23}, -\frac{15}{92}, -\frac{15}{92}, \frac{12}{23}, -\frac{15}{46}, \frac{9}{92}, \frac{9}{92}) + \frac{9}{46}\sqrt{26}e^1 \otimes e_6$	{1345, 1578, 368, 1345, 1578, 368}
84:4	$0, 0, 0, 0, \frac{3}{46}\sqrt{102}e^{12}, \frac{3}{46}\sqrt{102}e^{34}, \frac{3}{46}\sqrt{51}e^{14} + \frac{3}{46}\sqrt{66}e^{23}, \frac{3}{46}\sqrt{51}e^{13} + \frac{3}{46}\sqrt{66}e^{24}$	$(\frac{6}{23}, \frac{6}{23}, -\frac{15}{92}, -\frac{15}{92}, \frac{12}{23}, -\frac{15}{46}, \frac{9}{92}, \frac{9}{92}) + \frac{9}{46}\sqrt{26}e^1 \otimes e_6$	{1345, 1578, 368, 1345, 1578, 368}
8321:1	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{7242}e^{12}, \frac{10}{347}\sqrt{213}e^{16}, \frac{2}{347}\sqrt{2911}e^{17}$	$(\frac{7}{347}, \frac{65}{347}, -\frac{135}{347}, -\frac{77}{347}, \frac{45}{347}, \frac{72}{347}, \frac{79}{347}, \frac{86}{347}) + \frac{12}{347}\sqrt{355}e^1 \otimes e_3 + \frac{2}{347}\sqrt{8662}e^2 \otimes e_4$	{1257, 127, 14568, 1468, 235678, 23678, 34, 345}
8321:1	$0, 0, 0, 0, 0, \frac{3}{58}\sqrt{203}e^{12}, \frac{3}{29}\sqrt{14}e^{16}, \frac{3}{58}\sqrt{203}e^{17}$	$(-\frac{21}{58}, \frac{3}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{45}{116}, \frac{3}{116}, -\frac{39}{116}) + \frac{3}{29}\sqrt{161}e^2 \otimes e_8$	{123457, 12347, 1237, 127, 134568, 13468, 1368, 168}
8321:1	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1529}e^{12}, \frac{2}{223}\sqrt{2085}e^{16}, \frac{2}{223}\sqrt{10842}e^{17}$	$(-\frac{37}{223}, \frac{56}{223}, \frac{1}{223}, \frac{45}{223}, \frac{45}{223}, \frac{19}{223}, -\frac{18}{223}, -\frac{55}{223}) + \frac{2}{223}\sqrt{24742}e^3 \otimes e_8$	{124568, 12468, 1268, 13457, 1347, 137, 23, 234, 2345, 45678, 4678, 678}
8321:1	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{1529}e^{12}, \frac{1}{181}\sqrt{2085}e^{16}, \frac{1}{181}\sqrt{10842}e^{17}$	$(-\frac{37}{362}, \frac{28}{181}, \frac{92}{181}, \frac{223}{362}, -\frac{47}{181}, \frac{19}{362}, -\frac{9}{181}, -\frac{55}{362}) + \frac{139}{181}e^3 \otimes e_5 + \frac{1}{181}\sqrt{24742}e^4 \otimes e_8$	{12368, 12568, 1347, 1457, 234, 245, 3678, 5678}
8321:1	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{321}e^{12}, \frac{2}{231}\sqrt{8239}e^{16}, \frac{6}{77}\sqrt{107}e^{17}$	$(\frac{85}{231}, -\frac{43}{77}, \frac{15}{77}, \frac{15}{77}, -\frac{4}{21}, \frac{41}{231}, \frac{6}{11}) + \frac{2}{231}\sqrt{19902}e^1 \otimes e_2$	{13457, 1347, 137, 17, 2, 23, 234, 2345}
8321:1	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{10842}e^{12}, \frac{1}{181}\sqrt{2085}e^{16}, \frac{1}{181}\sqrt{1529}e^{17}$	$(-\frac{37}{362}, \frac{145}{362}, \frac{92}{181}, -\frac{133}{362}, -\frac{47}{181}, \frac{54}{181}, \frac{71}{362}, \frac{17}{181}) + \frac{139}{181}e^3 \otimes e_5 + \frac{1}{181}\sqrt{24742}e^2 \otimes e_4$	{12378, 12578, 1346, 1456, 2367, 2567, 348, 458}
8321:1	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{129}e^{12}, \frac{4}{55}\sqrt{43}e^{16}, \frac{2}{55}\sqrt{129}e^{17}$	$(\frac{2}{55}, \frac{9}{55}, 1, -\frac{31}{55}, \frac{12}{55}, \frac{1}{5}, \frac{13}{55}, \frac{3}{11}) + \frac{86}{55}e^3 \otimes e_4$	{12357, 1237, 12457, 1247, 13568, 1368, 14568, 1468, 235678, 23678, 245678, 24678, 3, 35, 4, 45}
8321:1	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{9889}e^{12}, \frac{4}{751}\sqrt{6061}e^{16}, \frac{1}{751}\sqrt{172898}e^{17}$	$(\frac{95}{751}, -\frac{224}{751}, \frac{380}{751}, \frac{85}{751}, \frac{85}{751}, -\frac{129}{751}, -\frac{34}{751}, \frac{61}{751}) + \frac{1}{751}\sqrt{188210}e^3 \otimes e_8 + \frac{1}{751}\sqrt{236698}e^1 \otimes e_2$	{13457, 1347, 137, 23, 234, 2345}
8321:1	$0, 0, 0, 0, 0, \frac{4}{1821}\sqrt{9889}e^{12}, \frac{8}{1821}\sqrt{6061}e^{16}, \frac{2}{1821}\sqrt{172898}e^{17}$	$(\frac{190}{1821}, -\frac{448}{1821}, \frac{163}{607}, -\frac{149}{1821}, \frac{760}{1821}, -\frac{86}{607}, -\frac{68}{1821}, \frac{122}{1821}) + \frac{2}{1821}\sqrt{188210}e^5 \otimes e_8 + \frac{2}{1821}\sqrt{236698}e^1 \otimes e_2 + \frac{638}{1821}e^3 \otimes e_4$	{1357, 1457, 235, 245}
8321:1	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{10842}e^{12}, \frac{2}{223}\sqrt{2085}e^{16}, \frac{2}{223}\sqrt{1529}e^{17}$	$(-\frac{37}{223}, \frac{145}{223}, -\frac{133}{223}, \frac{45}{223}, \frac{45}{223}, \frac{108}{223}, \frac{71}{223}, \frac{34}{223}) + \frac{2}{223}\sqrt{24742}e^2 \otimes e_3$	{124578, 12478, 1278, 13456, 1346, 136, 24567, 2467, 267, 3458, 348, 38}
8321:1	$0, 0, 0, 0, 0, \frac{3}{14}\sqrt{3}e^{12}, \frac{3}{49}\sqrt{30}e^{16}, \frac{3}{14}\sqrt{3}e^{17}$	$(-\frac{9}{98}, \frac{51}{196}, -\frac{18}{49}, \frac{6}{49}, \frac{6}{49}, \frac{33}{196}, \frac{15}{196}, -\frac{3}{196}) + \frac{18}{49}\sqrt{2}e^1 \otimes e_3 + \frac{3}{49}\sqrt{57}e^2 \otimes e_8$	{12457, 1247, 127, 14568, 1468, 168}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8321:1	$0, 0, 0, 0, 0, \frac{6}{179}\sqrt{203}e^{12}, \frac{12}{179}\sqrt{14}e^{16}, \frac{6}{179}\sqrt{203}e^{17}$	$(-\frac{42}{179}, \frac{87}{179}, \frac{87}{179}, -\frac{39}{179}, \frac{24}{179}, \frac{45}{179}, \frac{3}{179}, -\frac{39}{179})$ $+\frac{126}{179}e^3 \otimes e_4 + \frac{12}{179}\sqrt{161}e^2 \otimes e_8$	{12357, 1237, 12457, 1247, 13568, 1368, 14568, 1468}
8321:1	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{2911}e^{12}, \frac{10}{347}\sqrt{213}e^{16}, \frac{2}{347}\sqrt{7242}e^{17}$	$(\frac{7}{347}, \frac{4}{347}, \frac{167}{347}, -\frac{135}{347}, \frac{45}{347}, \frac{11}{347}, \frac{18}{347}, \frac{25}{347})$ $+\frac{12}{347}\sqrt{355}e^1 \otimes e_4 + \frac{2}{347}\sqrt{8662}e^3 \otimes e_8$	{12357, 1237, 1568, 168, 245678, 24678, 34, 345}
8321:1	$0, 0, 0, 0, 0, \frac{1}{205}\sqrt{8642}e^{12}, \frac{3}{205}\sqrt{298}e^{16}, \frac{1}{205}\sqrt{8642}e^{17}$	$(-\frac{8}{41}, \frac{87}{205}, \frac{116}{205}, -\frac{62}{205}, \frac{27}{205}, \frac{47}{205}, \frac{7}{205}, -\frac{33}{205})$ $+\frac{1}{205}\sqrt{26522}e^2 \otimes e_4 + \frac{1}{205}\sqrt{26522}e^3 \otimes e_8$	{12357, 1237, 14568, 1468, 25678, 2678, 34, 345}
8321:1	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{4}{83}\sqrt{115}e^{16}, \frac{2}{83}\sqrt{345}e^{17}$	$(\frac{10}{83}, -\frac{3}{83}, \frac{35}{83}, -\frac{36}{83}, -\frac{11}{83}, \frac{7}{83}, \frac{17}{83}, \frac{27}{83})$ $+\frac{46}{83}e^3 \otimes e_5 + \frac{8}{83}\sqrt{69}e^1 \otimes e_4$	{1237, 1257, 1368, 1568, 234678, 245678, 34, 45}
8321:1	$0, 0, 0, 0, 0, \frac{1}{30}\sqrt{345}e^{12}, \frac{1}{15}\sqrt{115}e^{16}, \frac{1}{30}\sqrt{345}e^{17}$	$(\frac{1}{6}, -\frac{1}{20}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{7}{60}, \frac{17}{60}, \frac{9}{20})$ $+\frac{2}{15}\sqrt{69}e^1 \otimes e_3$	{12457, 1247, 127, 14568, 1468, 168, 2345678, 234678, 23678, 3, 34, 345}
8321:1	$0, 0, 0, 0, 0, \frac{42}{223}\sqrt{3}e^{12}, \frac{12}{223}\sqrt{30}e^{16}, \frac{42}{223}\sqrt{3}e^{17}$	$(-\frac{18}{223}, \frac{51}{223}, -\frac{72}{223}, -\frac{3}{223}, \frac{51}{223}, \frac{33}{223}, \frac{15}{223}, -\frac{3}{223})$ $+\frac{12}{223}\sqrt{57}e^2 \otimes e_8 + \frac{54}{223}e^5 \otimes e_4 + \frac{72}{223}\sqrt{2}e^1 \otimes e_3$	{1247, 1257, 1468, 1568}
8321:1	$0, 0, 0, 0, 0, \frac{7}{257}\sqrt{146}e^{12}, \frac{3}{257}\sqrt{730}e^{16}, \frac{7}{257}\sqrt{146}e^{17}$	$(-\frac{8}{257}, \frac{39}{257}, -\frac{81}{257}, -\frac{34}{257}, \frac{88}{257}, \frac{31}{257}, \frac{23}{257}, \frac{15}{257})$ $+\frac{1}{257}\sqrt{8906}e^2 \otimes e_4 + \frac{1}{257}\sqrt{8906}e^5 \otimes e_8 + \frac{6}{257}\sqrt{438}e^1 \otimes e_3$	{1257, 1468, 23678, 345}
8321:1	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{321}e^{12}, \frac{1}{169}\sqrt{8239}e^{16}, \frac{9}{169}\sqrt{107}e^{17}$	$(\frac{85}{338}, -\frac{129}{338}, \frac{76}{169}, -\frac{31}{169}, \frac{45}{338}, -\frac{22}{169}, \frac{41}{338}, \frac{63}{169})$ $+\frac{107}{169}e^3 \otimes e_4 + \frac{1}{169}\sqrt{19902}e^1 \otimes e_2$	{1357, 137, 1457, 147, 23, 235, 24, 245}
8321:2	$0, 0, 0, 0, 0, \frac{18}{373}\sqrt{73}e^{12}, \frac{72}{373}e^{16}, \frac{18}{373}\sqrt{13}e^{17} + \frac{36}{373}\sqrt{30}e^{34}$	$(-\frac{54}{373}, \frac{159}{373}, \frac{69}{373}, -\frac{72}{373}, -\frac{93}{373}, \frac{105}{373}, \frac{51}{373}, -\frac{3}{373})$ $+\frac{18}{373}\sqrt{141}e^3 \otimes e_5 + \frac{36}{373}\sqrt{46}e^2 \otimes e_8$	{12347, 1257, 1368, 14568}
8321:2	$0, 0, 0, 0, 0, \frac{2}{1377}\sqrt{9262}e^{12}, \frac{2}{1377}\sqrt{124195}e^{16}, \frac{2}{1377}\sqrt{107355}e^{17} + \frac{2}{1377}\sqrt{59782}e^{34}$	$(\frac{7}{27}, -\frac{485}{1377}, \frac{539}{1377}, \frac{47}{1377}, -\frac{101}{459}, -\frac{128}{1377}, \frac{229}{1377}, \frac{586}{1377})$ $+\frac{4}{1377}\sqrt{51783}e^3 \otimes e_5 + \frac{4}{1377}\sqrt{73254}e^1 \otimes e_2$	{1347, 157, 234, 25}
8321:2	$0, 0, 0, 0, 0, \frac{20}{419}\sqrt{87}e^{12}, \frac{4}{419}\sqrt{2929}e^{16}, \frac{4}{419}\sqrt{2262}e^{17} + \frac{4}{419}\sqrt{174}e^{34}$	$(\frac{49}{419}, -\frac{15}{419}, \frac{182}{419}, -\frac{50}{419}, -\frac{183}{419}, \frac{34}{419}, \frac{83}{419}, \frac{132}{419})$ $+\frac{232}{419}e^3 \otimes e_4 + \frac{36}{419}\sqrt{87}e^1 \otimes e_5$	{1237, 1247, 35, 45}
8321:2	$0, 0, 0, 0, 0, \frac{4}{361}\sqrt{127}e^{12}, \frac{8}{361}\sqrt{127}e^{16}, \frac{4}{361}\sqrt{1905}e^{17} + \frac{2}{361}\sqrt{7366}e^{34}$	$(-\frac{24}{361}, \frac{52}{361}, \frac{117}{361}, -\frac{137}{361}, \frac{234}{361}, \frac{28}{361}, \frac{4}{361}, -\frac{20}{361})$ $+\frac{254}{361}e^3 \otimes e_4 + \frac{2}{361}\sqrt{23622}e^5 \otimes e_8$	{12368, 12468, 3678, 4678}
8321:2	$0, 0, 0, 0, 0, \frac{20}{303}\sqrt{87}e^{12}, \frac{4}{303}\sqrt{2929}e^{16}, \frac{4}{303}\sqrt{2262}e^{17} + \frac{4}{303}\sqrt{174}e^{34}$	$(\frac{49}{303}, -\frac{5}{101}, \frac{22}{101}, \frac{22}{101}, -\frac{61}{101}, \frac{34}{303}, \frac{83}{303}, \frac{44}{101})$ $+\frac{12}{101}\sqrt{87}e^1 \otimes e_5$	{1237, 13468, 168, 2345678, 25678, 35}
8321:2	$0, 0, 0, 0, 0, \frac{38}{1737}\sqrt{127}e^{12}, \frac{266}{1737}\sqrt{7}e^{16}, \frac{38}{579}\sqrt{65}e^{17} + \frac{38}{1737}\sqrt{109}e^{34}$	$(\frac{76}{579}, -\frac{494}{1737}, \frac{95}{1737}, \frac{95}{1737}, \frac{304}{579}, -\frac{266}{1737}, -\frac{38}{1737}, \frac{190}{1737})$ $+\frac{190}{1737}\sqrt{33}e^1 \otimes e_2 + \frac{76}{1737}\sqrt{177}e^5 \otimes e_8$	{13457, 157, 2345, 25}
8321:2	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{4}{35}\sqrt{22}e^{16}, \frac{6}{35}\sqrt{11}e^{17} + \frac{1}{35}\sqrt{66}e^{34}$	$(\frac{17}{70}, -\frac{27}{70}, \frac{17}{35}, -\frac{1}{7}, \frac{9}{70}, -\frac{1}{7}, \frac{1}{10}, \frac{12}{35})$ $+\frac{1}{35}\sqrt{858}e^1 \otimes e_2 - \frac{22}{35}e^3 \otimes e_4$	{1357, 137, 1457, 147, 23, 235, 24, 245}
8321:2	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{4}{35}\sqrt{22}e^{16}, \frac{6}{35}\sqrt{11}e^{17} + \frac{1}{35}\sqrt{66}e^{34}$	$(\frac{17}{70}, -\frac{27}{70}, \frac{17}{35}, -\frac{1}{7}, \frac{9}{70}, -\frac{1}{7}, \frac{1}{10}, \frac{12}{35})$ $+\frac{1}{35}\sqrt{858}e^1 \otimes e_2 + \frac{22}{35}e^3 \otimes e_4$	{1357, 137, 1457, 147, 23, 235, 24, 245}
8321:2	$0, 0, 0, 0, 0, \frac{15}{913}\sqrt{482}e^{12}, \frac{30}{913}\sqrt{89}e^{16}, \frac{30}{913}\sqrt{95}e^{17} + \frac{30}{913}\sqrt{51}e^{34}$	$(-\frac{75}{913}, \frac{255}{913}, \frac{15}{913}, \frac{15}{913}, -\frac{300}{913}, \frac{180}{913}, \frac{105}{913}, \frac{30}{913})$ $+\frac{15}{913}\sqrt{758}e^2 \otimes e_8 + \frac{15}{913}\sqrt{834}e^1 \otimes e_5$	{12347, 127, 1368}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8321:2	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{438}e^{12}, \frac{1}{47}\sqrt{511}e^{16}, \frac{1}{47}\sqrt{219}e^{17} + \frac{1}{47}\sqrt{438}e^{34}$	$(\frac{5}{94}, \frac{15}{94}, \frac{44}{47}, -\frac{29}{47}, \frac{21}{94}, \frac{10}{47}, \frac{25}{94}, \frac{15}{47})$ $+ \frac{73}{47}e^3 \otimes e_4$	{13568, 1368, 14568, 1468, 235678, 23678, 245678, 24678}
8321:2	$0, 0, 0, 0, 0, \frac{4}{583}\sqrt{5133}e^{12}, \frac{4}{583}\sqrt{1239}e^{16},$ $\frac{2}{583}\sqrt{10266}e^{17} + \frac{4}{583}\sqrt{5133}e^{34}$	$(-\frac{118}{583}, \frac{290}{583}, \frac{145}{583}, -\frac{19}{53}, \frac{84}{583}, \frac{172}{583}, \frac{54}{583}, -\frac{64}{583})$ $+ \frac{2}{583}\sqrt{56994}e^2 \otimes e_8 + \frac{354}{583}e^3 \otimes e_4$	{13568, 1368, 14568, 1468}
8321:2	$0, 0, 0, 0, 0, \frac{2}{117}\sqrt{127}e^{12}, \frac{4}{117}\sqrt{127}e^{16}, \frac{2}{117}\sqrt{1905}e^{17} + \frac{1}{117}\sqrt{7366}e^{34}$	$(-\frac{4}{39}, \frac{2}{9}, -\frac{5}{117}, -\frac{5}{117}, 1, \frac{14}{117}, \frac{2}{117}, -\frac{10}{117})$ $+ \frac{1}{117}\sqrt{23622}e^5 \otimes e_8$	{12368, 13457, 157, 2345, 25, 3678}
8321:2	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{12}, \frac{1}{29}\sqrt{55}e^{16}, \frac{1}{29}\sqrt{66}e^{17} + \frac{1}{29}\sqrt{77}e^{34}$	$(-\frac{5}{58}, \frac{23}{58}, \frac{13}{29}, -\frac{9}{29}, -\frac{21}{58}, \frac{9}{29}, \frac{13}{58}, \frac{4}{29})$ $+ \frac{1}{29}\sqrt{627}e^2 \otimes e_5 + \frac{22}{29}e^3 \otimes e_4$	{12378, 12478, 358, 458}
8321:2	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{286}e^{12}, \frac{1}{18}\sqrt{55}e^{16}, \frac{1}{18}\sqrt{66}e^{17} + \frac{1}{18}\sqrt{77}e^{34}$	$(-\frac{5}{36}, \frac{23}{36}, \frac{1}{9}, \frac{1}{9}, -\frac{7}{12}, \frac{1}{2}, \frac{13}{36}, \frac{2}{9})$ $+ \frac{1}{18}\sqrt{627}e^2 \otimes e_5$	{12378, 13456, 156, 23467, 267, 358}
8321:2	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{77}e^{12}, \frac{1}{18}\sqrt{55}e^{16}, \frac{1}{18}\sqrt{66}e^{17} + \frac{1}{18}\sqrt{286}e^{34}$	$(\frac{1}{8}, \frac{1}{9}, \frac{23}{36}, -\frac{11}{72}, -\frac{7}{12}, \frac{17}{72}, \frac{13}{36}, \frac{35}{72})$ $+ \frac{1}{18}\sqrt{627}e^3 \otimes e_5$	{12378, 124578, 1346, 156, 23467, 2567, 38, 458}
8321:2	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{66}e^{12}, \frac{1}{6}\sqrt{22}e^{16}, \frac{1}{4}\sqrt{11}e^{17} + \frac{1}{24}\sqrt{66}e^{34}$	$(\frac{17}{48}, -\frac{9}{16}, \frac{1}{4}, \frac{1}{4}, \frac{3}{16}, -\frac{5}{24}, \frac{7}{48}, \frac{1}{2})$ $+ \frac{1}{24}\sqrt{858}e^1 \otimes e_2$	{1357, 137, 23, 235}
8321:2	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{5133}e^{12}, \frac{2}{203}\sqrt{1239}e^{16},$ $\frac{1}{203}\sqrt{10266}e^{17} + \frac{2}{203}\sqrt{5133}e^{34}$	$(-\frac{59}{203}, \frac{5}{7}, -\frac{16}{203}, -\frac{16}{203}, \frac{6}{203}, \frac{86}{203}, \frac{27}{203}, -\frac{32}{203})$ $+ \frac{1}{203}\sqrt{56994}e^2 \otimes e_8$	{123457, 12347, 1257, 127, 13568, 1368}
8321:3	$0, 0, 0, 0, 0, \frac{13}{136}\sqrt{11}e^{12}, \frac{39}{136}\sqrt{2}e^{16}, \frac{13}{136}\sqrt{11}e^{17} + \frac{91}{136}\sqrt{2}e^{23}$	$(\frac{29}{136}, -\frac{33}{272}, \frac{87}{136}, \frac{41}{68}, \frac{27}{136}, \frac{25}{272}, \frac{83}{272}, \frac{141}{272})$ $+ \frac{13}{136}\sqrt{218}e^3 \otimes e_4$	{12356, 1236, 13578, 1378, 2458, 248, 4567, 467}
8321:3	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{2847}e^{12}, \frac{6}{139}\sqrt{73}e^{16}, \frac{2}{139}\sqrt{1241}e^{17} + \frac{2}{139}\sqrt{2847}e^{23}$	$(-\frac{4}{139}, \frac{61}{139}, -\frac{12}{139}, -\frac{85}{139}, \frac{27}{139}, \frac{57}{139}, \frac{53}{139}, \frac{49}{139})$ $+ \frac{8}{139}\sqrt{511}e^2 \otimes e_4$	{12578, 1278, 1456, 146, 23567, 2367, 3458, 348}
8321:3	$0, 0, 0, 0, 0, \frac{20}{297}\sqrt{41}e^{12}, \frac{4}{297}\sqrt{1435}e^{16}, \frac{20}{297}\sqrt{41}e^{17} + \frac{4}{297}\sqrt{205}e^{23}$	$(\frac{40}{297}, -\frac{17}{297}, \frac{40}{99}, -\frac{124}{297}, -\frac{4}{27}, \frac{23}{297}, \frac{7}{33}, \frac{103}{297})$ $+ \frac{2}{297}\sqrt{13694}e^1 \otimes e_4 + \frac{2}{297}\sqrt{7134}e^3 \otimes e_5$	{1237, 1368, 245678, 45}
8321:3	$0, 0, 0, 0, 0, \frac{1}{332}\sqrt{13282}e^{12}, \frac{1}{332}\sqrt{6870}e^{16},$ $\frac{1}{332}\sqrt{19923}e^{17} + \frac{1}{332}\sqrt{19923}e^{23}$	$(-\frac{85}{664}, \frac{203}{664}, -\frac{255}{664}, \frac{203}{332}, \frac{45}{332}, \frac{59}{332}, \frac{33}{664}, -\frac{13}{166})$ $+ \frac{1}{166}\sqrt{18091}e^4 \otimes e_8 + \frac{1}{332}\sqrt{59082}e^2 \otimes e_3$	{13568, 1368, 25678, 2678}
8321:3	$0, 0, 0, 0, 0, \frac{29}{2969}\sqrt{1186}e^{12}, \frac{145}{2969}\sqrt{42}e^{16},$ $\frac{29}{2969}\sqrt{1146}e^{17} + \frac{58}{2969}\sqrt{30}e^{23}$	$(-\frac{116}{2969}, \frac{493}{2969}, -\frac{348}{2969}, -\frac{957}{2969}, \frac{986}{2969}, \frac{377}{2969}, \frac{261}{2969}, \frac{145}{2969})$ $+ \frac{29}{2969}\sqrt{1354}e^5 \otimes e_8 + \frac{29}{2969}\sqrt{1434}e^2 \otimes e_3 + \frac{58}{2969}\sqrt{633}e^1 \otimes e_4$	{1257, 345}
8321:3	$0, 0, 0, 0, 0, \frac{14}{467}\sqrt{95}e^{12}, \frac{6}{467}\sqrt{1045}e^{16}, \frac{2}{467}\sqrt{12730}e^{17} + \frac{8}{467}\sqrt{95}e^{23}$	$(\frac{15}{467}, -\frac{4}{467}, \frac{45}{467}, \frac{231}{467}, -\frac{175}{467}, \frac{11}{467}, \frac{26}{467}, \frac{41}{467})$ $+ \frac{10}{467}\sqrt{646}e^4 \otimes e_8 + \frac{4}{467}\sqrt{5605}e^1 \otimes e_5$	{12347, 1368, 25678, 45}
8321:3	$0, 0, 0, 0, 0, \frac{2}{357}\sqrt{3649}e^{12}, \frac{2}{357}\sqrt{1157}e^{16}, \frac{4}{357}\sqrt{979}e^{17} + \frac{2}{357}\sqrt{10502}e^{23}$	$(\frac{23}{357}, -\frac{38}{357}, \frac{23}{119}, \frac{209}{357}, -\frac{109}{357}, -\frac{5}{119}, \frac{8}{357}, \frac{31}{357})$ $+ \frac{2}{357}\sqrt{15130}e^4 \otimes e_8 + \frac{4}{357}\sqrt{3293}e^3 \otimes e_5$	{12568, 1457, 234, 3678}
8321:3	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{1241}e^{12}, \frac{6}{139}\sqrt{73}e^{16}, \frac{2}{139}\sqrt{2847}e^{17} + \frac{2}{139}\sqrt{2847}e^{23}$	$(-\frac{4}{139}, \frac{5}{139}, -\frac{12}{139}, 1, \frac{27}{139}, \frac{1}{139}, -\frac{3}{139}, -\frac{7}{139})$ $+ \frac{8}{139}\sqrt{511}e^4 \otimes e_8$	{12568, 1268, 1457, 147, 234, 2345, 35678, 3678}
8321:3	$0, 0, 0, 0, 0, \frac{2}{467}\sqrt{12730}e^{12}, \frac{6}{467}\sqrt{1045}e^{16}, \frac{14}{467}\sqrt{95}e^{17} + \frac{8}{467}\sqrt{95}e^{23}$	$(\frac{15}{467}, \frac{81}{467}, \frac{45}{467}, -\frac{175}{467}, -\frac{109}{467}, \frac{96}{467}, \frac{111}{467}, \frac{126}{467})$ $+ \frac{10}{467}\sqrt{646}e^2 \otimes e_5 + \frac{4}{467}\sqrt{5605}e^1 \otimes e_4$	{1237, 13568, 24678, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8321:3	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{159}e^{12}, \frac{1}{34}\sqrt{265}e^{16}, \frac{1}{34}\sqrt{159}e^{17} + \frac{1}{34}\sqrt{159}e^{23}$	$(\frac{1}{17}, \frac{9}{68}, \frac{3}{17}, 1, -\frac{19}{34}, \frac{13}{68}, \frac{1}{4}, \frac{21}{68})$ $+ \frac{53}{34}e^4 \otimes e_5$	{12347, 12357, 13468, 13568, 24678, 25678, 4, 5}
8321:3	$0, 0, 0, 0, 0, \frac{4}{357}\sqrt{979}e^{12}, \frac{2}{357}\sqrt{1157}e^{16}, \frac{2}{357}\sqrt{3649}e^{17} + \frac{2}{357}\sqrt{10502}e^{23}$	$(\frac{23}{357}, \frac{47}{357}, \frac{23}{119}, -\frac{131}{357}, -\frac{109}{357}, \frac{10}{51}, \frac{31}{119}, \frac{116}{357})$ $+ \frac{2}{357}\sqrt{15130}e^2 \otimes e_4 + \frac{4}{357}\sqrt{3293}e^3 \otimes e_5$	{12578, 1456, 2367, 348}
8321:3	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{105}e^{12}, \frac{1}{12}\sqrt{70}e^{16}, \frac{1}{16}\sqrt{105}e^{17} + \frac{1}{24}\sqrt{105}e^{23}$	$(\frac{5}{48}, \frac{1}{32}, \frac{5}{16}, -\frac{5}{8}, \frac{3}{16}, \frac{13}{96}, \frac{23}{96}, \frac{11}{32})$ $+ \frac{1}{48}\sqrt{2730}e^1 \otimes e_4$	{1257, 127, 1568, 168, 2345678, 234678, 34, 345}
8321:3	$0, 0, 0, 0, 0, \frac{26}{63}\sqrt{2}e^{12}, \frac{26}{147}\sqrt{2}e^{16}, \frac{26}{441}\sqrt{11}e^{17} + \frac{26}{441}\sqrt{11}e^{23}$	$(-\frac{17}{147}, \frac{185}{441}, -\frac{17}{49}, \frac{223}{441}, -\frac{115}{441}, \frac{134}{441}, \frac{83}{441}, \frac{32}{441})$ $+ \frac{26}{441}\sqrt{218}e^2 \otimes e_3 + \frac{338}{441}e^4 \otimes e_5$	{1346, 1356, 2467, 2567}
8321:3	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{95}e^{12}, \frac{2}{73}\sqrt{57}e^{16}, \frac{2}{73}\sqrt{95}e^{17} + \frac{2}{73}\sqrt{399}e^{23}$	$(-\frac{4}{73}, \frac{15}{73}, -\frac{12}{73}, \frac{41}{73}, -\frac{23}{73}, \frac{11}{73}, \frac{7}{73}, \frac{3}{73})$ $+ \frac{8}{73}\sqrt{38}e^2 \otimes e_5 + \frac{8}{73}\sqrt{38}e^4 \otimes e_8$	{12347, 13568, 2678, 45}
8321:3	$0, 0, 0, 0, 0, \frac{91}{136}\sqrt{2}e^{12}, \frac{39}{136}\sqrt{2}e^{16}, \frac{13}{136}\sqrt{11}e^{17} + \frac{13}{136}\sqrt{11}e^{23}$	$(-\frac{3}{16}, \frac{185}{272}, -\frac{9}{16}, \frac{27}{136}, \frac{27}{136}, \frac{67}{136}, \frac{83}{272}, \frac{2}{17})$ $+ \frac{13}{136}\sqrt{218}e^2 \otimes e_3$	{13456, 1346, 136, 24567, 2467, 267}
8321:3	$0, 0, 0, 0, 0, \frac{2}{1665}\sqrt{168394}e^{12}, \frac{38}{1665}\sqrt{313}e^{16},$ $\frac{2}{1665}\sqrt{7731}e^{17} + \frac{28}{1665}\sqrt{313}e^{23}$	$(-\frac{7}{185}, \frac{437}{1665}, -\frac{21}{185}, -\frac{689}{1665}, \frac{197}{1665}, \frac{374}{1665}, \frac{311}{1665}, \frac{248}{1665})$ $+ \frac{2}{1665}\sqrt{182166}e^2 \otimes e_3 + \frac{2}{1665}\sqrt{277318}e^1 \otimes e_4$	{1257, 127, 34, 345}
8321:4	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{13}e^{12}, \frac{3}{25}\sqrt{13}e^{16}, \frac{1}{25}\sqrt{78}e^{17} + \frac{1}{25}\sqrt{78}e^{26}$	$(\frac{3}{50}, \frac{3}{25}, 1, -\frac{14}{25}, \frac{11}{50}, \frac{9}{25}, \frac{6}{25}, \frac{3}{10})$ $+ \frac{39}{25}e^3 \otimes e_4$	{13568, 1368, 14568, 1468, 3, 35, 4, 45}
8321:4	$0, 0, 0, 0, 0, \frac{8}{355}\sqrt{345}e^{12}, \frac{4}{355}\sqrt{2369}e^{16}, \frac{4}{355}\sqrt{1909}e^{17} + \frac{92}{355}\sqrt{2}e^{26}$	$(\frac{17}{355}, \frac{34}{355}, \frac{28}{71}, -\frac{167}{355}, -\frac{44}{355}, \frac{51}{355}, \frac{68}{355}, \frac{17}{71})$ $+ \frac{184}{355}e^3 \otimes e_5 + \frac{4}{355}\sqrt{4945}e^1 \otimes e_4$	{1237, 1257, 234678, 245678}
8321:4	$0, 0, 0, 0, 0, \frac{6}{1277}\sqrt{4379}e^{12}, \frac{6}{1277}\sqrt{8265}e^{16},$ $\frac{6}{1277}\sqrt{11078}e^{17} + \frac{12}{1277}\sqrt{145}e^{26}$	$(\frac{17}{1277}, \frac{34}{1277}, \frac{607}{1277}, -\frac{505}{1277}, \frac{165}{1277}, \frac{51}{1277}, \frac{68}{1277}, \frac{85}{1277})$ $+ \frac{6}{1277}\sqrt{12818}e^3 \otimes e_8 + \frac{6}{1277}\sqrt{19430}e^1 \otimes e_4$	{12357, 1237, 245678, 24678}
8321:4	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{7}e^{12}, \frac{4}{51}\sqrt{7}e^{16}, \frac{4}{51}\sqrt{91}e^{17} + \frac{4}{51}\sqrt{91}e^{26}$	$(-\frac{1}{51}, -\frac{2}{51}, 1, \frac{10}{51}, \frac{10}{51}, -\frac{1}{17}, -\frac{4}{51}, -\frac{5}{51})$ $+ \frac{4}{51}\sqrt{287}e^3 \otimes e_8$	{1234567, 123467, 12367, 24578, 2478, 278}
8321:4	$0, 0, 0, 0, 0, \frac{4}{1405}\sqrt{41514}e^{12}, \frac{6}{1405}\sqrt{4070}e^{16},$ $\frac{2}{1405}\sqrt{91982}e^{17} + \frac{2}{1405}\sqrt{178266}e^{26}$	$(\frac{76}{1405}, \frac{152}{1405}, \frac{115}{281}, -\frac{662}{1405}, -\frac{239}{1405}, \frac{228}{1405}, \frac{304}{1405}, \frac{76}{281})$ $+ \frac{2}{1405}\sqrt{337810}e^2 \otimes e_4 + \frac{814}{1405}e^3 \otimes e_5$	{134678, 145678, 347, 457}
8321:4	$0, 0, 0, 0, 0, \frac{8}{263}\sqrt{345}e^{12}, \frac{4}{263}\sqrt{2369}e^{16}, \frac{4}{263}\sqrt{1909}e^{17} + \frac{92}{263}\sqrt{2}e^{26}$	$(\frac{17}{263}, \frac{34}{263}, -\frac{167}{263}, \frac{48}{263}, \frac{48}{263}, \frac{51}{263}, \frac{68}{263}, \frac{85}{263})$ $+ \frac{4}{263}\sqrt{4945}e^1 \otimes e_3$	{12457, 1247, 127, 2345678, 234678, 23678}
8321:4	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{41514}e^{12}, \frac{3}{499}\sqrt{4070}e^{16},$ $\frac{1}{499}\sqrt{91982}e^{17} + \frac{1}{499}\sqrt{178266}e^{26}$	$(\frac{38}{499}, \frac{76}{499}, -\frac{331}{499}, \frac{84}{499}, \frac{84}{499}, \frac{114}{499}, \frac{152}{499}, \frac{190}{499})$ $+ \frac{1}{499}\sqrt{337810}e^2 \otimes e_3$	{1345678, 134678, 13678, 3457, 347, 37}
8321:4	$0, 0, 0, 0, 0, \frac{4}{1343}\sqrt{20661}e^{12}, \frac{12}{1343}\sqrt{923}e^{16},$ $\frac{4}{1343}\sqrt{3053}e^{17} + \frac{4}{1343}\sqrt{35571}e^{26}$	$(\frac{19}{1343}, \frac{38}{1343}, \frac{39}{79}, -\frac{530}{1343}, \frac{150}{1343}, \frac{57}{1343}, \frac{76}{1343}, \frac{95}{1343})$ $+ \frac{12}{1343}\sqrt{4047}e^3 \otimes e_8 + \frac{8}{1343}\sqrt{12070}e^2 \otimes e_4$	{145678, 14678, 3457, 347}
8321:4	$0, 0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{16}{325}\sqrt{53}e^{16}, \frac{16}{325}\sqrt{19}e^{17} + \frac{16}{325}\sqrt{34}e^{26}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, -\frac{18}{65}, \frac{42}{325}, \frac{57}{325}, \frac{76}{325}, \frac{19}{65})$ $+ \frac{16}{325}\sqrt{151}e^1 \otimes e_3 + \frac{32}{325}\sqrt{33}e^2 \otimes e_4$	{14568, 1468, 34, 345}
8321:4	$0, 0, 0, 0, 0, \frac{23}{2111}\sqrt{894}e^{12}, \frac{23}{2111}\sqrt{390}e^{16},$ $\frac{23}{2111}\sqrt{454}e^{17} + \frac{46}{2111}\sqrt{165}e^{26}$	$(\frac{46}{2111}, \frac{92}{2111}, -\frac{483}{2111}, -\frac{437}{2111}, \frac{759}{2111}, \frac{138}{2111}, \frac{184}{2111}, \frac{230}{2111})$ $+ \frac{23}{2111}\sqrt{1086}e^5 \otimes e_8 + \frac{23}{2111}\sqrt{1306}e^2 \otimes e_4 + \frac{23}{2111}\sqrt{1398}e^1 \otimes e_3$	{1468, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
8321:4	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{7}e^{12}, \frac{4}{79}\sqrt{7}e^{16}, \frac{4}{79}\sqrt{91}e^{17} + \frac{4}{79}\sqrt{91}e^{26}$	$(-\frac{1}{79}, -\frac{2}{79}, \frac{38}{79}, \frac{51}{79}, -\frac{18}{79}, -\frac{3}{79}, -\frac{4}{79}, -\frac{5}{79})$ $+ \frac{4}{79}\sqrt{287}e^4 \otimes e_8 + \frac{56}{79}e^3 \otimes e_5$	{123467, 124567, 2378, 2578}
8321:5	$0, 0, 0, 0, 0, \frac{2}{107}\sqrt{498}e^{12}, \frac{4}{107}\sqrt{166}e^{16},$ $\frac{2}{107}\sqrt{249}e^{17} + \frac{2}{107}\sqrt{249}e^{23} + \frac{2}{107}\sqrt{498}e^{45}$	$(\frac{7}{107}, \frac{15}{107}, \frac{21}{107}, \frac{101}{107}, -\frac{65}{107}, \frac{22}{107}, \frac{29}{107}, \frac{36}{107})$ $+ \frac{166}{107}e^4 \otimes e_5$	{13468, 13568, 24678, 25678}
8321:5	$0, 0, 0, 0, 0, \frac{14}{81}\sqrt{31}e^{12}, \frac{7}{81}\sqrt{22}e^{16},$ $\frac{14}{81}\sqrt{6}e^{17} + \frac{14}{81}\sqrt{6}e^{23} + \frac{7}{81}\sqrt{38}e^{45}$	$(-\frac{14}{81}, \frac{56}{81}, -\frac{14}{81}, \frac{7}{81}, \frac{7}{81}, \frac{14}{81}, \frac{28}{81}, \frac{14}{81})$ $+ \frac{7}{81}\sqrt{258}e^2 \otimes e_3$	{13456, 136, 24567, 267}
8321:6	$0, 0, 0, 0, 0, \frac{42}{1703}\sqrt{290}e^{12}, \frac{168}{1703}\sqrt{31}e^{16},$ $\frac{588}{1703}\sqrt{2}e^{17} + \frac{42}{1703}\sqrt{226}e^{26} + \frac{42}{1703}\sqrt{22}e^{34}$	$(\frac{84}{1703}, \frac{168}{1703}, \frac{651}{1703}, -\frac{231}{1703}, -\frac{798}{1703}, \frac{252}{1703}, \frac{336}{1703}, \frac{420}{1703})$ $+ \frac{42}{1703}\sqrt{1030}e^1 \otimes e_5 + \frac{882}{1703}e^3 \otimes e_4$	{235678, 245678}
8321:6	$0, 0, 0, 0, 0, \frac{21}{631}\sqrt{290}e^{12}, \frac{84}{631}\sqrt{31}e^{16},$ $\frac{294}{631}\sqrt{2}e^{17} + \frac{21}{631}\sqrt{226}e^{26} + \frac{21}{631}\sqrt{22}e^{34}$	$(\frac{42}{631}, \frac{84}{631}, \frac{105}{631}, \frac{105}{631}, -\frac{399}{631}, \frac{126}{631}, \frac{168}{631}, \frac{210}{631})$ $+ \frac{21}{631}\sqrt{1030}e^1 \otimes e_5$	{12347, 127, 235678}
8321:6	$0, 0, 0, 0, 0, \frac{8}{241}\sqrt{187}e^{12}, \frac{8}{241}\sqrt{187}e^{16},$ $\frac{2}{241}\sqrt{1122}e^{17} + \frac{2}{241}\sqrt{1122}e^{26} + \frac{2}{241}\sqrt{2618}e^{34}$	$(\frac{16}{241}, \frac{32}{241}, \frac{227}{241}, -\frac{147}{241}, \frac{54}{241}, \frac{48}{241}, \frac{64}{241}, \frac{80}{241})$ $+ \frac{374}{241}e^3 \otimes e_4$	{13568, 1368, 14568, 1468}
8321:6	$0, 0, 0, 0, 0, \frac{11}{19}e^{12}, \frac{1}{38}\sqrt{110}e^{16},$ $\frac{1}{19}\sqrt{66}e^{17} + \frac{2}{19}\sqrt{33}e^{26} + \frac{1}{38}\sqrt{22}e^{34}$	$(\frac{1}{19}, \frac{2}{19}, \frac{8}{19}, -\frac{3}{19}, -\frac{9}{19}, \frac{3}{19}, \frac{4}{19}, \frac{5}{19})$ $+ \frac{11}{19}e^3 \otimes e_4 + \frac{3}{38}\sqrt{110}e^2 \otimes e_5$	{357, 457}
8321:6	$0, 0, 0, 0, 0, \frac{22}{27}e^{12}, \frac{1}{27}\sqrt{110}e^{16},$ $\frac{2}{27}\sqrt{66}e^{17} + \frac{4}{27}\sqrt{33}e^{26} + \frac{1}{27}\sqrt{22}e^{34}$	$(\frac{2}{27}, \frac{4}{27}, \frac{5}{27}, \frac{5}{27}, -\frac{2}{3}, \frac{2}{9}, \frac{8}{27}, \frac{10}{27})$ $+ \frac{1}{9}\sqrt{110}e^2 \otimes e_5$	{1345678, 15678, 357}
8321:6	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{814}e^{12}, \frac{1}{61}\sqrt{814}e^{16},$ $\frac{4}{61}\sqrt{37}e^{17} + \frac{4}{61}\sqrt{37}e^{26} + \frac{2}{61}\sqrt{851}e^{34}$	$(\frac{11}{122}, \frac{11}{61}, \frac{38}{61}, -\frac{21}{122}, -\frac{36}{61}, \frac{33}{122}, \frac{22}{61}, \frac{55}{122})$ $+ \frac{1}{61}\sqrt{7178}e^3 \otimes e_5$	{1346, 156, 38, 458}
832:1	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2085}e^{12}, \frac{1}{181}\sqrt{10842}e^{16}, \frac{1}{181}\sqrt{1529}e^{26}$	$(-\frac{24}{181}, \frac{41}{362}, \frac{92}{181}, \frac{223}{362}, -\frac{47}{181}, -\frac{7}{362}, -\frac{55}{362}, \frac{17}{181})$ $+ \frac{139}{181}e^3 \otimes e_5 + \frac{1}{181}\sqrt{24742}e^4 \otimes e_7$	{1237, 1257, 1346, 1456, 23678, 25678, 348, 458}
832:1	$0, 0, 0, 0, 0, \frac{3}{205}\sqrt{298}e^{12}, \frac{1}{205}\sqrt{8642}e^{16}, \frac{1}{205}\sqrt{8642}e^{26}$	$(-\frac{11}{205}, -\frac{11}{205}, \frac{116}{205}, \frac{116}{205}, \frac{27}{205}, \frac{27}{205}, -\frac{22}{205}, -\frac{33}{205}, -\frac{33}{205})$ $+ \frac{1}{205}\sqrt{26522}e^3 \otimes e_7 + \frac{1}{205}\sqrt{26522}e^4 \otimes e_8$	{12578, 1278, 13568, 1368, 34, 345}
832:1	$0, 0, 0, 0, 0, \frac{12}{1403}\sqrt{1651}e^{12}, \frac{4}{1403}\sqrt{24130}e^{16}, \frac{4}{1403}\sqrt{381}e^{26}$	$(\frac{88}{1403}, -\frac{99}{1403}, \frac{585}{1403}, -\frac{420}{1403}, \frac{398}{1403}, -\frac{11}{1403}, \frac{77}{1403}, -\frac{110}{1403})$ $+ \frac{2}{1403}\sqrt{142494}e^1 \otimes e_4 + \frac{2}{1403}\sqrt{65278}e^5 \otimes e_8 + \frac{4}{1403}\sqrt{28194}e^3 \otimes e_7$	{1278, 1368, 24567, 345}
832:1	$0, 0, 0, 0, 0, \frac{4}{55}\sqrt{43}e^{12}, \frac{2}{55}\sqrt{129}e^{16}, \frac{2}{55}\sqrt{129}e^{26}$	$(\frac{1}{11}, \frac{1}{11}, 1, -\frac{31}{55}, \frac{12}{55}, \frac{2}{11}, \frac{3}{11}, \frac{3}{11})$ $+ \frac{86}{55}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 13568, 1368, 14568, 1468, 3, 35, 4, 45}
832:1	$0, 0, 0, 0, 0, \frac{2}{231}\sqrt{8239}e^{12}, \frac{6}{77}\sqrt{107}e^{16}, \frac{4}{231}\sqrt{321}e^{26}$	$(\frac{73}{231}, -\frac{20}{231}, -\frac{47}{77}, \frac{15}{77}, \frac{15}{77}, \frac{53}{77}, \frac{6}{11}, \frac{1}{7})$ $+ \frac{2}{231}\sqrt{19902}e^1 \otimes e_3$	{12457, 1247, 127, 1456, 146, 16, 2345678, 234678, 23678, 3458, 348, 38}
832:1	$0, 0, 0, 0, 0, \frac{4}{751}\sqrt{6061}e^{12}, \frac{1}{751}\sqrt{172898}e^{16}, \frac{2}{751}\sqrt{9889}e^{26}$	$(\frac{33}{751}, -\frac{5}{751}, \frac{380}{751}, -\frac{286}{751}, \frac{85}{751}, \frac{28}{751}, \frac{61}{751}, \frac{23}{751})$ $+ \frac{1}{751}\sqrt{188210}e^3 \otimes e_7 + \frac{1}{751}\sqrt{236698}e^1 \otimes e_4$	{1257, 127, 1356, 136, 245678, 24678, 3458, 348}
832:1	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{2085}e^{12}, \frac{2}{223}\sqrt{10842}e^{16}, \frac{2}{223}\sqrt{1529}e^{26}$	$(-\frac{48}{223}, \frac{41}{223}, 1, \frac{45}{223}, \frac{45}{223}, -\frac{7}{223}, -\frac{55}{223}, \frac{34}{223})$ $+ \frac{2}{223}\sqrt{24742}e^3 \otimes e_7$	{12457, 1247, 127, 13456, 1346, 136, 245678, 24678, 2678, 3458, 348, 38}
832:1	$0, 0, 0, 0, 0, \frac{1}{213}\sqrt{12070}e^{12}, \frac{10}{213}\sqrt{51}e^{16}, \frac{10}{213}\sqrt{51}e^{26}$	$(\frac{19}{213}, \frac{19}{213}, -\frac{22}{71}, -\frac{22}{71}, \frac{9}{71}, \frac{38}{213}, \frac{19}{71}, \frac{19}{71})$ $+ \frac{1}{213}\sqrt{15810}e^1 \otimes e_3 + \frac{1}{213}\sqrt{15810}e^2 \otimes e_4$	{12578, 1278, 14568, 1468, 34, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:1	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{8239}e^{12}, \frac{9}{169}\sqrt{107}e^{16}, \frac{2}{169}\sqrt{321}e^{26}$	$(\frac{73}{338}, -\frac{10}{169}, \frac{76}{169}, -\frac{141}{338}, -\frac{31}{169}, \frac{53}{338}, \frac{63}{169}, \frac{33}{338})$ $+\frac{107}{169}e^3 \otimes e_5 + \frac{1}{169}\sqrt{19902}e^1 \otimes e_4$	{1237, 1257, 136, 156, 234678, 245678, 348, 458}
832:1	$0, 0, 0, 0, 0, \frac{4}{281}\sqrt{1290}e^{12}, \frac{20}{281}\sqrt{43}e^{16}, \frac{4}{281}\sqrt{645}e^{26}$	$(\frac{70}{281}, -\frac{51}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{39}{281}, \frac{19}{281}, \frac{89}{281}, -\frac{32}{281})$ $+\frac{2}{281}\sqrt{12126}e^1 \otimes e_4 + \frac{2}{281}\sqrt{8686}e^3 \otimes e_8$	{12578, 1278, 1568, 168, 234567, 23467, 34, 345}
832:1	$0, 0, 0, 0, 0, \frac{4}{1419}\sqrt{17005}e^{12}, \frac{20}{1419}\sqrt{589}e^{16}, \frac{40}{1419}\sqrt{38}e^{26}$	$(-\frac{1}{473}, \frac{112}{1419}, -\frac{383}{1419}, -\frac{268}{1419}, \frac{162}{473}, \frac{109}{1419}, \frac{106}{1419}, \frac{221}{1419})$ $+\frac{10}{1419}\sqrt{2622}e^5 \otimes e_7 + \frac{2}{1419}\sqrt{77710}e^2 \otimes e_4 + \frac{4}{1419}\sqrt{24890}e^1 \otimes e_3$	{1278, 14568, 2367, 345}
832:2	$0, 0, 0, 0, 0, \frac{1012}{2945}e^{12}, \frac{23}{2945}\sqrt{1534}e^{16}, \frac{23}{2945}\sqrt{1214}e^{13} + \frac{23}{2945}\sqrt{670}e^{26}$	$(\frac{253}{2945}, -\frac{138}{2945}, -\frac{276}{2945}, -\frac{667}{2945}, \frac{897}{2945}, \frac{23}{589}, \frac{368}{2945}, -\frac{23}{2945})$ $+\frac{46}{2945}\sqrt{458}e^2 \otimes e_4 + \frac{46}{2945}\sqrt{566}e^1 \otimes e_3 + \frac{828}{2945}e^5 \otimes e_7$	{2367, 345}
832:2	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{186}e^{12}, \frac{6}{119}\sqrt{62}e^{16}, \frac{2}{119}\sqrt{186}e^{13} + \frac{6}{119}\sqrt{62}e^{26}$	$(\frac{10}{119}, \frac{12}{119}, \frac{24}{119}, 1, -\frac{67}{119}, \frac{22}{119}, \frac{32}{119}, \frac{2}{7})$ $+\frac{186}{119}e^4 \otimes e_5$	{12478, 12578, 1468, 1568, 2467, 2567, 4, 5}
832:2	$0, 0, 0, 0, 0, \frac{6}{475}\sqrt{503}e^{12}, \frac{2}{475}\sqrt{15593}e^{16}, \frac{1}{475}\sqrt{141846}e^{13} + \frac{2}{475}\sqrt{33198}e^{26}$	$(\frac{26}{475}, -\frac{27}{475}, -\frac{54}{475}, 1, \frac{87}{475}, -\frac{1}{475}, \frac{1}{19}, -\frac{28}{475})$ $+\frac{2}{475}\sqrt{97582}e^4 \otimes e_8$	{1234567, 123467, 134, 1345, 23578, 2378, 3568, 368}
832:2	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39}e^{12}, \frac{1}{19}\sqrt{51}e^{16}, \frac{4}{19}\sqrt{6}e^{13} + \frac{6}{19}e^{26}$	$(\frac{3}{38}, \frac{2}{19}, \frac{4}{19}, -\frac{15}{38}, -\frac{5}{19}, \frac{7}{38}, \frac{5}{19}, \frac{11}{38})$ $+\frac{1}{19}\sqrt{129}e^3 \otimes e_5 + \frac{1}{19}\sqrt{174}e^1 \otimes e_4$	{1237, 136, 234678, 348}
832:2	$0, 0, 0, 0, 0, \frac{2}{197}\sqrt{1846}e^{12}, \frac{4}{197}\sqrt{710}e^{16}, \frac{1}{197}\sqrt{4899}e^{13} + \frac{1}{197}\sqrt{1207}e^{26}$	$(\frac{24}{197}, -\frac{47}{394}, -\frac{47}{197}, \frac{191}{394}, \frac{20}{197}, \frac{1}{394}, \frac{49}{394}, -\frac{23}{197})$ $+\frac{1}{197}\sqrt{10721}e^4 \otimes e_7 + \frac{1}{197}\sqrt{14413}e^1 \otimes e_3$	{1257, 127, 1456, 146}
832:2	$0, 0, 0, 0, 0, \frac{18}{587}\sqrt{323}e^{12}, \frac{9}{587}\sqrt{646}e^{16}, \frac{1}{587}\sqrt{65246}e^{13} + \frac{3}{587}\sqrt{9690}e^{26}$	$(-\frac{67}{587}, \frac{88}{587}, \frac{176}{587}, \frac{277}{587}, \frac{235}{587}, \frac{21}{587}, \frac{46}{587}, \frac{109}{587})$ $+\frac{2}{587}\sqrt{32623}e^4 \otimes e_7 + \frac{2}{587}\sqrt{50065}e^2 \otimes e_5$	{12378, 134568, 2367, 345}
832:2	$0, 0, 0, 0, 0, \frac{6}{475}\sqrt{503}e^{12}, \frac{2}{475}\sqrt{33198}e^{16}, \frac{1}{475}\sqrt{141846}e^{13} + \frac{2}{475}\sqrt{15593}e^{26}$	$(-\frac{168}{475}, \frac{167}{475}, \frac{334}{475}, \frac{87}{475}, \frac{87}{475}, -\frac{1}{475}, -\frac{169}{475}, \frac{166}{475})$ $+\frac{2}{475}\sqrt{97582}e^3 \otimes e_7$	{14578, 1478, 178, 4567, 467, 67}
832:2	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{210}e^{12}, \frac{2}{109}\sqrt{182}e^{16}, \frac{2}{109}\sqrt{966}e^{13} + \frac{2}{109}\sqrt{182}e^{26}$	$(-\frac{43}{218}, \frac{13}{109}, \frac{26}{109}, \frac{121}{218}, \frac{12}{109}, -\frac{17}{218}, -\frac{30}{109}, \frac{9}{218})$ $+\frac{2}{109}\sqrt{1358}e^3 \otimes e_7 + \frac{2}{109}\sqrt{1358}e^4 \otimes e_8$	{123456, 12346, 2358, 238}
832:2	$0, 0, 0, 0, 0, \frac{14}{487}\sqrt{814}e^{12}, \frac{1}{487}\sqrt{160358}e^{16}, \frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{2442}e^{26}$	$(\frac{195}{487}, -\frac{106}{487}, -\frac{212}{487}, \frac{87}{487}, \frac{87}{487}, \frac{89}{487}, \frac{284}{487}, -\frac{17}{487})$ $+\frac{20}{487}\sqrt{814}e^1 \otimes e_3$	{12457, 1247, 127, 1456, 146, 16}
832:2	$0, 0, 0, 0, 0, \frac{14}{487}\sqrt{814}e^{12}, \frac{1}{487}\sqrt{2442}e^{16}, \frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{160358}e^{26}$	$(-\frac{5}{487}, \frac{94}{487}, \frac{188}{487}, -\frac{313}{487}, \frac{87}{487}, \frac{89}{487}, \frac{84}{487}, \frac{183}{487})$ $+\frac{20}{487}\sqrt{814}e^2 \otimes e_4$	{12358, 1238, 1345678, 134678, 2356, 236, 3457, 347}
832:2	$0, 0, 0, 0, 0, \frac{80}{1167}\sqrt{58}e^{12}, \frac{4}{1167}\sqrt{9686}e^{16}, \frac{4}{1167}\sqrt{1914}e^{13} + \frac{8}{1167}\sqrt{2581}e^{26}$	$(\frac{112}{1167}, \frac{30}{389}, \frac{60}{389}, -\frac{352}{1167}, -\frac{374}{1167}, \frac{202}{1167}, \frac{314}{1167}, \frac{292}{1167})$ $+\frac{4}{1167}\sqrt{28942}e^1 \otimes e_4 + \frac{4}{1167}\sqrt{30218}e^2 \otimes e_5$	{12378, 13568, 23467, 345}
832:2	$0, 0, 0, 0, 0, \frac{150}{2933}\sqrt{10}e^{12}, \frac{100}{2933}\sqrt{70}e^{16}, \frac{75}{2933}\sqrt{174}e^{13} + \frac{50}{2933}\sqrt{78}e^{26}$	$(-\frac{200}{2933}, \frac{225}{2933}, \frac{450}{2933}, -\frac{825}{2933}, \frac{125}{419}, \frac{25}{2933}, -\frac{25}{419}, \frac{250}{2933})$ $+\frac{100}{2933}\sqrt{123}e^3 \otimes e_7 + \frac{50}{2933}\sqrt{313}e^5 \otimes e_8 + \frac{50}{2933}\sqrt{537}e^1 \otimes e_4$	{1356, 348}
832:2	$0, 0, 0, 0, 0, \frac{2}{479}\sqrt{13002}e^{12}, \frac{3}{479}\sqrt{23246}e^{16}, \frac{1}{479}\sqrt{43734}e^{13} + \frac{3}{479}\sqrt{1970}e^{26}$	$(-\frac{89}{479}, \frac{66}{479}, \frac{132}{479}, 1, \frac{95}{479}, -\frac{23}{479}, -\frac{112}{479}, \frac{43}{479})$ $+\frac{48}{479}\sqrt{197}e^4 \otimes e_7$	{1257, 127, 1456, 146, 25678, 2678, 458, 48}
832:2	$0, 0, 0, 0, 0, \frac{13}{491}\sqrt{105}e^{12}, \frac{13}{491}\sqrt{3}e^{16}, \frac{13}{491}\sqrt{111}e^{13} + \frac{13}{491}\sqrt{217}e^{26}$	$(-\frac{117}{982}, \frac{52}{491}, \frac{104}{491}, -\frac{117}{491}, \frac{429}{982}, -\frac{13}{982}, -\frac{65}{491}, \frac{91}{982})$ $+\frac{13}{491}\sqrt{223}e^3 \otimes e_7 + \frac{13}{491}\sqrt{330}e^2 \otimes e_4 + \frac{39}{491}\sqrt{37}e^5 \otimes e_8$	{14678, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:2	$0, 0, 0, 0, 0, \frac{12}{1453}\sqrt{503}e^{12}, \frac{4}{1453}\sqrt{33198}e^{16},$ $\frac{2}{1453}\sqrt{141846}e^{13} + \frac{4}{1453}\sqrt{15593}e^{26}$	$(-\frac{336}{1453}, \frac{334}{1453}, \frac{668}{1453}, \frac{677}{1453}, -\frac{329}{1453}, -\frac{2}{1453}, -\frac{338}{1453}, \frac{332}{1453})$ $+\frac{1006}{1453}e^4 \otimes e_5 + \frac{4}{1453}\sqrt{97582}e^3 \otimes e_7$	{1478, 1578, 467, 567}
832:2	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{143}e^{12}, \frac{2}{115}\sqrt{429}e^{16}, \frac{3}{115}\sqrt{1430}e^{13} + \frac{2}{115}\sqrt{429}e^{26}$	$(-\frac{2}{23}, \frac{7}{23}, \frac{14}{23}, -\frac{73}{115}, \frac{21}{115}, \frac{5}{23}, \frac{3}{23}, \frac{12}{23})$ $+\frac{2}{115}\sqrt{6721}e^3 \otimes e_4$	{1245678, 124678, 1458, 148, 2457, 247, 456, 46}
832:2	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{291}e^{12}, \frac{2}{197}\sqrt{970}e^{16}, \frac{1}{197}\sqrt{9118}e^{13} + \frac{2}{197}\sqrt{582}e^{26}$	$(\frac{28}{197}, -\frac{11}{197}, -\frac{22}{197}, \frac{103}{197}, -\frac{69}{197}, \frac{17}{197}, \frac{45}{197}, \frac{6}{197})$ $+\frac{2}{197}\sqrt{3783}e^4 \otimes e_8 + \frac{2}{197}\sqrt{4559}e^1 \otimes e_5$	{1278, 168, 24567, 45}
832:2	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{46}e^{12}, \frac{1}{14}\sqrt{22}e^{16}, \frac{1}{14}\sqrt{26}e^{13} + \frac{1}{14}\sqrt{22}e^{26}$	$(\frac{5}{28}, -\frac{3}{56}, -\frac{3}{28}, -\frac{19}{56}, \frac{3}{28}, \frac{1}{8}, \frac{17}{56}, \frac{1}{14})$ $+\frac{5}{14}\sqrt{2}e^1 \otimes e_3 + \frac{5}{14}\sqrt{2}e^2 \otimes e_4$	{23567, 2367, 34, 345}
832:2	$0, 0, 0, 0, 0, \frac{16}{307}\sqrt{57}e^{12}, \frac{16}{307}\sqrt{106}e^{16}, \frac{16}{307}\sqrt{19}e^{13} + \frac{16}{307}\sqrt{30}e^{26}$	$(\frac{8}{307}, \frac{8}{307}, \frac{16}{307}, \frac{152}{307}, -\frac{120}{307}, \frac{16}{307}, \frac{24}{307}, \frac{24}{307})$ $+\frac{16}{307}\sqrt{155}e^1 \otimes e_5 + \frac{48}{307}\sqrt{13}e^4 \otimes e_7$	{1237, 1346, 235678, 3458}
832:2	$0, 0, 0, 0, 0, \frac{3}{313}\sqrt{226}e^{12}, \frac{8}{313}\sqrt{339}e^{16}, \frac{2}{313}\sqrt{5763}e^{13} + \frac{1}{313}\sqrt{9266}e^{26}$	$(-\frac{57}{313}, \frac{125}{626}, \frac{125}{313}, \frac{349}{626}, -\frac{101}{313}, \frac{11}{626}, -\frac{103}{626}, \frac{68}{313})$ $+\frac{1}{313}\sqrt{62602}e^3 \otimes e_5 + \frac{2}{313}\sqrt{15481}e^4 \otimes e_7$	{124568, 1578, 245, 567}
832:2	$0, 0, 0, 0, 0, \frac{4}{1263}\sqrt{16549}e^{12}, \frac{4}{1263}\sqrt{7303}e^{16},$ $\frac{4}{1263}\sqrt{1273}e^{13} + \frac{4}{1263}\sqrt{30217}e^{26}$	$(-\frac{14}{1263}, \frac{62}{1263}, \frac{124}{1263}, \frac{646}{1263}, -\frac{158}{421}, \frac{16}{421}, \frac{34}{1263}, \frac{110}{1263})$ $+\frac{4}{1263}\sqrt{33701}e^4 \otimes e_8 + \frac{4}{1263}\sqrt{41339}e^2 \otimes e_5$	{128, 15678, 246, 457}
832:2	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{70}e^{12}, \frac{10}{79}\sqrt{3}e^{16}, \frac{10}{79}e^{13} + \frac{5}{79}\sqrt{74}e^{26}$	$(-\frac{5}{79}, \frac{35}{158}, \frac{35}{79}, -\frac{65}{158}, -\frac{15}{79}, \frac{25}{158}, \frac{15}{79}, \frac{30}{79})$ $+\frac{10}{79}\sqrt{43}e^2 \otimes e_4 + \frac{5}{79}\sqrt{102}e^3 \otimes e_5$	{1258, 145678, 256, 457}
832:2	$0, 0, 0, 0, 0, \frac{28}{1381}\sqrt{814}e^{12}, \frac{2}{1381}\sqrt{160358}e^{16},$ $\frac{2}{1381}\sqrt{82214}e^{13} + \frac{2}{1381}\sqrt{2442}e^{26}$	$(\frac{390}{1381}, -\frac{212}{1381}, -\frac{424}{1381}, \frac{581}{1381}, -\frac{233}{1381}, \frac{178}{1381}, \frac{568}{1381}, -\frac{34}{1381})$ $+\frac{40}{1381}\sqrt{814}e^1 \otimes e_3 + \frac{814}{1381}e^4 \otimes e_5$	{1247, 1257, 146, 156}
832:2	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{65}e^{12}, \frac{1}{27}\sqrt{91}e^{16}, \frac{2}{27}\sqrt{65}e^{13} + \frac{1}{27}\sqrt{78}e^{26}$	$(-\frac{1}{18}, \frac{2}{27}, \frac{4}{27}, \frac{31}{54}, -\frac{1}{3}, \frac{1}{54}, -\frac{1}{27}, \frac{5}{54})$ $+\frac{13}{27}\sqrt{2}e^4 \otimes e_8 + \frac{1}{27}\sqrt{299}e^3 \otimes e_5$	{123467, 134, 2378, 368}
832:2	$0, 0, 0, 0, 0, \frac{11}{497}\sqrt{319}e^{12}, \frac{11}{497}\sqrt{113}e^{16}, \frac{11}{497}\sqrt{131}e^{13} + \frac{165}{497}e^{26}$	$(\frac{66}{497}, -\frac{55}{994}, -\frac{55}{497}, -\frac{297}{994}, \frac{132}{497}, \frac{11}{994}, \frac{209}{497}, \frac{11}{497})$ $+\frac{11}{497}\sqrt{337}e^1 \otimes e_3 + \frac{11}{497}\sqrt{393}e^2 \otimes e_4 + \frac{22}{497}\sqrt{42}e^5 \otimes e_8$	{23567, 345}
832:2	$0, 0, 0, 0, 0, \frac{78}{491}\sqrt{6}e^{12}, \frac{26}{491}\sqrt{82}e^{16}, \frac{13}{491}\sqrt{111}e^{13} + \frac{13}{491}\sqrt{3}e^{26}$	$(\frac{52}{491}, -\frac{117}{982}, -\frac{117}{491}, \frac{429}{982}, \frac{104}{491}, -\frac{13}{982}, \frac{91}{982}, -\frac{65}{491})$ $+\frac{273}{491}e^1 \otimes e_3 + \frac{39}{491}\sqrt{37}e^4 \otimes e_7 + \frac{52}{491}\sqrt{7}e^5 \otimes e_8$	{1257, 1456}
832:2	$0, 0, 0, 0, 0, \frac{4}{397}\sqrt{649}e^{12}, \frac{1}{397}\sqrt{28202}e^{16}, \frac{1}{397}\sqrt{23010}e^{13} + \frac{118}{397}e^{26}$	$(-\frac{63}{794}, \frac{55}{397}, \frac{110}{397}, -\frac{299}{794}, \frac{40}{397}, \frac{47}{794}, -\frac{8}{397}, \frac{157}{794})$ $+\frac{1}{397}\sqrt{39530}e^3 \otimes e_7 + \frac{1}{397}\sqrt{44722}e^1 \otimes e_4$	{1356, 136, 3458, 348}
832:2	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{29739}e^{12}, \frac{2}{499}\sqrt{33187}e^{16},$ $\frac{1}{499}\sqrt{73270}e^{13} + \frac{4}{499}\sqrt{2586}e^{26}$	$(\frac{122}{499}, \frac{5}{499}, \frac{10}{499}, -\frac{309}{499}, \frac{95}{499}, \frac{127}{499}, \frac{249}{499}, \frac{132}{499})$ $+\frac{2}{499}\sqrt{87062}e^1 \otimes e_4$	{12357, 1237, 1356, 136, 2345678, 234678, 3458, 348}
832:3	$0, 0, 0, 0, 0, \frac{7}{883}\sqrt{1590}e^{12}, \frac{14}{883}\sqrt{865}e^{16}, \frac{35}{883}\sqrt{62}e^{26} + \frac{7}{883}\sqrt{2210}e^{34}$	$(-\frac{28}{883}, \frac{98}{883}, \frac{287}{883}, -\frac{119}{883}, -\frac{273}{883}, \frac{70}{883}, \frac{42}{883}, \frac{168}{883})$ $+\frac{14}{883}\sqrt{1015}e^3 \otimes e_7 + \frac{175}{883}\sqrt{6}e^1 \otimes e_5$	{127, 1346, 245678, 358}
832:3	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{55}e^{12}, \frac{1}{29}\sqrt{286}e^{16}, \frac{1}{29}\sqrt{66}e^{26} + \frac{1}{29}\sqrt{77}e^{34}$	$(-\frac{4}{29}, \frac{4}{29}, \frac{13}{29}, -\frac{9}{29}, \frac{18}{29}, 0, -\frac{4}{29}, \frac{4}{29})$ $+\frac{1}{29}\sqrt{627}e^5 \otimes e_7 + \frac{22}{29}e^3 \otimes e_4$	{23678, 24678, 358, 458}
832:3	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{55}e^{12}, \frac{1}{18}\sqrt{77}e^{16}, \frac{1}{18}\sqrt{66}e^{26} + \frac{1}{18}\sqrt{286}e^{34}$	$(\frac{1}{24}, \frac{2}{9}, \frac{23}{36}, -\frac{11}{72}, -\frac{7}{12}, \frac{19}{72}, \frac{11}{36}, \frac{35}{72})$ $+\frac{1}{18}\sqrt{627}e^3 \otimes e_5$	{12347, 1257, 1346, 156, 23678, 245678, 38, 458}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:3	$0, 0, 0, 0, 0, \frac{2}{1889}\sqrt{23529}e^{12}, \frac{4}{1889}\sqrt{43307}e^{16},$ $\frac{2}{1889}\sqrt{119009}e^{26} + \frac{2}{1889}\sqrt{254386}e^{34}$	$(-\frac{370}{1889}, \frac{487}{1889}, \frac{175}{1889}, \frac{429}{1889}, -\frac{507}{1889}, \frac{117}{1889}, -\frac{253}{1889}, \frac{604}{1889})$ $+\frac{2}{1889}\sqrt{243474}e^3 \otimes e_5 + \frac{44}{1889}\sqrt{682}e^4 \otimes e_7$	{1257, 1346, 23678, 458}
832:3	$0, 0, 0, 0, 0, \frac{8}{97}\sqrt{15}e^{12}, \frac{4}{97}\sqrt{390}e^{16}, \frac{40}{97}\sqrt{2}e^{26} + \frac{4}{97}\sqrt{390}e^{34}$	$(-\frac{27}{97}, \frac{32}{97}, \frac{58}{97}, -\frac{21}{97}, \frac{18}{97}, \frac{5}{97}, -\frac{22}{97}, \frac{37}{97})$ $+\frac{4}{97}\sqrt{790}e^3 \otimes e_7$	{1257, 127, 13456, 1346, 245678, 24678, 358, 38}
832:3	$0, 0, 0, 0, 0, \frac{7}{597}\sqrt{4378}e^{12}, \frac{28}{199}\sqrt{33}e^{16}, \frac{7}{597}\sqrt{1122}e^{26} + \frac{7}{597}\sqrt{1254}e^{34}$	$(\frac{182}{597}, -\frac{28}{597}, \frac{21}{199}, \frac{21}{199}, -\frac{119}{199}, \frac{154}{199}, \frac{112}{199}, \frac{42}{199})$ $+\frac{7}{199}\sqrt{1166}e^1 \otimes e_5$	{12347, 127, 1346, 16, 235678, 358}
832:3	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{22}e^{12}, \frac{1}{35}\sqrt{66}e^{16}, \frac{6}{35}\sqrt{11}e^{26} + \frac{1}{35}\sqrt{66}e^{34}$	$(-\frac{2}{35}, \frac{1}{5}, \frac{17}{35}, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{35}, \frac{3}{35}, \frac{12}{35})$ $+\frac{1}{35}\sqrt{858}e^2 \otimes e_5 + \frac{22}{35}e^3 \otimes e_4$	{236, 246, 357, 457}
832:3	$0, 0, 0, 0, 0, \frac{8}{149}\sqrt{15}e^{12}, \frac{4}{149}\sqrt{102}e^{16}, \frac{8}{149}\sqrt{2}e^{26} + \frac{4}{149}\sqrt{102}e^{34}$	$(\frac{9}{149}, -\frac{8}{149}, \frac{26}{149}, -\frac{33}{149}, \frac{18}{149}, \frac{1}{149}, \frac{10}{149}, -\frac{7}{149})$ $+\frac{48}{149}e^1 \otimes e_8 + \frac{4}{149}\sqrt{118}e^3 \otimes e_7$	{1257, 127, 13456, 1346, 245678, 24678, 358, 38}
832:3	$0, 0, 0, 0, 0, \frac{8}{149}\sqrt{15}e^{12}, \frac{4}{149}\sqrt{102}e^{16}, \frac{8}{149}\sqrt{2}e^{26} + \frac{4}{149}\sqrt{102}e^{34}$	$(\frac{9}{149}, -\frac{8}{149}, \frac{26}{149}, -\frac{33}{149}, \frac{18}{149}, \frac{1}{149}, \frac{10}{149}, -\frac{7}{149})$ $-\frac{48}{149}e^1 \otimes e_8 + \frac{4}{149}\sqrt{118}e^3 \otimes e_7$	{1257, 127, 13456, 1346, 245678, 24678, 358, 38}
832:3	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{55}e^{12}, \frac{1}{18}\sqrt{286}e^{16}, \frac{1}{18}\sqrt{66}e^{26} + \frac{1}{18}\sqrt{77}e^{34}$	$(-\frac{2}{9}, \frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 1, 0, -\frac{2}{9}, \frac{2}{9})$ $+\frac{1}{18}\sqrt{627}e^5 \otimes e_7$	{12347, 127, 13456, 156, 23678, 358}
832:3	$0, 0, 0, 0, 0, \frac{8}{361}\sqrt{127}e^{12}, \frac{4}{361}\sqrt{127}e^{16}, \frac{4}{361}\sqrt{1905}e^{26} + \frac{2}{361}\sqrt{7366}e^{34}$	$(\frac{36}{361}, -\frac{28}{361}, \frac{117}{361}, -\frac{137}{361}, \frac{234}{361}, \frac{8}{361}, \frac{44}{361}, -\frac{20}{361})$ $+\frac{254}{361}e^3 \otimes e_4 + \frac{2}{361}\sqrt{23622}e^5 \otimes e_8$	{1238, 1248, 13678, 14678}
832:3	$0, 0, 0, 0, 0, \frac{4}{117}\sqrt{127}e^{12}, \frac{2}{117}\sqrt{127}e^{16}, \frac{2}{117}\sqrt{1905}e^{26} + \frac{1}{117}\sqrt{7366}e^{34}$	$(\frac{2}{13}, -\frac{14}{117}, -\frac{5}{117}, -\frac{5}{117}, \frac{1}{117}, \frac{4}{117}, \frac{22}{117}, -\frac{10}{117})$ $+\frac{1}{117}\sqrt{23622}e^5 \otimes e_8$	{1238, 13678, 23456, 256, 3457, 57}
832:3	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{22}e^{12}, \frac{1}{24}\sqrt{66}e^{16}, \frac{1}{4}\sqrt{11}e^{26} + \frac{1}{24}\sqrt{66}e^{34}$	$(-\frac{1}{12}, \frac{7}{24}, \frac{1}{4}, \frac{1}{4}, -\frac{5}{8}, \frac{5}{24}, \frac{1}{8}, \frac{1}{2})$ $+\frac{1}{24}\sqrt{858}e^2 \otimes e_5$	{12348, 128, 1345678, 15678, 236, 357}
832:3	$0, 0, 0, 0, 0, \frac{14}{1733}\sqrt{4378}e^{12}, \frac{168}{1733}\sqrt{33}e^{16},$ $\frac{14}{1733}\sqrt{1122}e^{26} + \frac{14}{1733}\sqrt{1254}e^{34}$	$(\frac{364}{1733}, -\frac{56}{1733}, \frac{665}{1733}, -\frac{413}{1733}, -\frac{714}{1733}, \frac{308}{1733}, \frac{672}{1733}, \frac{252}{1733})$ $+\frac{1078}{1733}e^3 \otimes e_4 + \frac{42}{1733}\sqrt{1166}e^1 \otimes e_5$	{235678, 245678, 358, 458}
832:3	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{345}e^{16}, \frac{2}{83}\sqrt{115}e^{26} + \frac{2}{83}\sqrt{345}e^{34}$	$(-\frac{18}{83}, \frac{25}{83}, \frac{35}{83}, -\frac{3}{83}, -\frac{21}{83}, \frac{7}{83}, -\frac{11}{83}, \frac{32}{83})$ $+\frac{2}{83}\sqrt{759}e^2 \otimes e_5 + \frac{2}{83}\sqrt{874}e^3 \otimes e_7$	{12478, 13568, 267, 345}
832:3	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{511}e^{12}, \frac{1}{47}\sqrt{438}e^{16}, \frac{1}{47}\sqrt{219}e^{26} + \frac{1}{47}\sqrt{438}e^{34}$	$(\frac{4}{47}, \frac{11}{94}, \frac{44}{47}, -\frac{29}{47}, \frac{21}{94}, \frac{19}{94}, \frac{27}{94}, \frac{15}{47})$ $+\frac{73}{47}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 13568, 1368, 14568, 1468}
832:3	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{186}e^{12}, \frac{1}{71}\sqrt{930}e^{16}, \frac{1}{71}\sqrt{62}e^{26} + \frac{4}{71}\sqrt{93}e^{34}$	$(-\frac{9}{71}, \frac{7}{71}, \frac{20}{71}, -\frac{15}{71}, \frac{36}{71}, -\frac{2}{71}, -\frac{11}{71}, \frac{5}{71})$ $+\frac{1}{71}\sqrt{2170}e^3 \otimes e_7 + \frac{3}{71}\sqrt{186}e^5 \otimes e_8$	{1257, 13456, 24678, 38}
832:4	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{110}e^{12}, \frac{1}{29}\sqrt{462}e^{16} - \frac{1}{29}\sqrt{286}e^{23},$ $\frac{11}{29}\sqrt{2}e^{13} + \frac{1}{29}\sqrt{66}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, \frac{6}{29}, -\frac{19}{29}, \frac{5}{29}, \frac{6}{29}, \frac{9}{29}, \frac{9}{29})$ $+\frac{4}{29}\sqrt{66}e^1 \otimes e_4$	{12357, 1237, 1356, 136, 2345678, 234678, 3458, 348, 12357, 1237, 1356, 136, 2345678, 234678, 3458, 348}
832:4	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{110}e^{12}, \frac{1}{29}\sqrt{462}e^{16} + \frac{1}{29}\sqrt{286}e^{23},$ $\frac{11}{29}\sqrt{2}e^{13} + \frac{1}{29}\sqrt{66}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, \frac{6}{29}, -\frac{19}{29}, \frac{5}{29}, \frac{6}{29}, \frac{9}{29}, \frac{9}{29})$ $+\frac{4}{29}\sqrt{66}e^1 \otimes e_4$	{12357, 1237, 1356, 136, 2345678, 234678, 3458, 348, 12357, 1237, 1356, 136, 2345678, 234678, 3458, 348}
832:4	$0, 0, 0, 0, 0, \frac{14}{247}\sqrt{86}e^{12}, \frac{35}{247}\sqrt{6}e^{16} - \frac{7}{247}\sqrt{22}e^{23},$ $\frac{7}{247}\sqrt{22}e^{13} + \frac{35}{247}\sqrt{6}e^{26}$	$(\frac{21}{247}, \frac{21}{247}, \frac{42}{247}, -\frac{77}{247}, -\frac{77}{247}, \frac{42}{247}, \frac{63}{247}, \frac{63}{247})$ $+\frac{84}{247}\sqrt{3}e^1 \otimes e_4 + \frac{84}{247}\sqrt{3}e^2 \otimes e_5$	{12378, 13568, 345, 12378, 13568, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:4	$0, 0, 0, 0, 0, \frac{14}{247}\sqrt{86e^{12}}, \frac{35}{247}\sqrt{6e^{16}} + \frac{7}{247}\sqrt{22e^{23}},$ $\frac{7}{247}\sqrt{22e^{13}} + \frac{35}{247}\sqrt{6e^{26}}$	$(\frac{21}{247}, \frac{21}{247}, \frac{42}{247}, -\frac{77}{247}, -\frac{77}{247}, \frac{42}{247}, \frac{63}{247}, \frac{63}{247})$ $+ \frac{84}{247}\sqrt{3e^1} \otimes e_4 + \frac{84}{247}\sqrt{3e^2} \otimes e_5$	{12378, 13568, 345, 12378, 13568, 345}
832:4	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{38e^{12}}, \frac{1}{20}\sqrt{114e^{16}} - \frac{1}{20}\sqrt{285e^{23}},$ $\frac{1}{20}\sqrt{285e^{13}} + \frac{1}{20}\sqrt{114e^{26}}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{7}{10}, \frac{3}{20}, \frac{1}{4}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{20}\sqrt{646e^3} \otimes e_4$	{1245678, 124678, 1458, 148, 456, 46, 1245678, 124678, 1458, 148, 456, 46}
832:4	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{38e^{12}}, \frac{1}{20}\sqrt{114e^{16}} + \frac{1}{20}\sqrt{285e^{23}},$ $\frac{1}{20}\sqrt{285e^{13}} + \frac{1}{20}\sqrt{114e^{26}}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{7}{10}, \frac{3}{20}, \frac{1}{4}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{20}\sqrt{646e^3} \otimes e_4$	{1245678, 124678, 1458, 148, 456, 46, 1245678, 124678, 1458, 148, 456, 46}
832:4	$0, 0, 0, 0, 0, \frac{2}{253}\sqrt{262e^{12}}, \frac{3}{253}\sqrt{4454e^{16}} - \frac{1}{253}\sqrt{40610e^{23}},$ $\frac{1}{253}\sqrt{13886e^{13}} + \frac{1}{253}\sqrt{14410e^{26}}$	$(-\frac{3}{253}, -\frac{3}{253}, -\frac{6}{253}, 1, \frac{45}{253}, -\frac{6}{253}, -\frac{9}{253}, -\frac{9}{253})$ $+ \frac{1}{253}\sqrt{1703e^4} \otimes e_7$	{1234568, 123468, 13578, 1378, 234, 2345, 3567, 367, 1234568, 123468, 13578, 1378, 234, 2345, 3567, 367}
832:4	$0, 0, 0, 0, 0, \frac{2}{253}\sqrt{262e^{12}}, \frac{3}{253}\sqrt{4454e^{16}} + \frac{1}{253}\sqrt{40610e^{23}},$ $\frac{1}{253}\sqrt{13886e^{13}} + \frac{1}{253}\sqrt{14410e^{26}}$	$(-\frac{3}{253}, -\frac{3}{253}, -\frac{6}{253}, 1, \frac{45}{253}, -\frac{6}{253}, -\frac{9}{253}, -\frac{9}{253})$ $+ \frac{1}{253}\sqrt{1703e^4} \otimes e_7$	{1234568, 123468, 13578, 1378, 234, 2345, 3567, 367, 1234568, 123468, 13578, 1378, 234, 2345, 3567, 367}
832:4	$0, 0, 0, 0, 0, \frac{18}{239}\sqrt{6e^{12}}, \frac{9}{239}\sqrt{86e^{16}} - \frac{63}{239}\sqrt{2e^{23}},$ $\frac{63}{239}\sqrt{2e^{13}} + \frac{9}{239}\sqrt{86e^{26}}$	$(-\frac{9}{239}, -\frac{9}{239}, -\frac{18}{239}, \frac{135}{239}, \frac{135}{239}, -\frac{18}{239}, -\frac{27}{239}, -\frac{27}{239})$ $+ \frac{36}{239}\sqrt{26e^4} \otimes e_7 + \frac{36}{239}\sqrt{26e^5} \otimes e_8$	{123456, 1357, 3678, 123456, 1357, 3678}
832:4	$0, 0, 0, 0, 0, \frac{18}{239}\sqrt{6e^{12}}, \frac{9}{239}\sqrt{86e^{16}} + \frac{63}{239}\sqrt{2e^{23}},$ $\frac{63}{239}\sqrt{2e^{13}} + \frac{9}{239}\sqrt{86e^{26}}$	$(-\frac{9}{239}, -\frac{9}{239}, -\frac{18}{239}, \frac{135}{239}, \frac{135}{239}, -\frac{18}{239}, -\frac{27}{239}, -\frac{27}{239})$ $+ \frac{36}{239}\sqrt{26e^4} \otimes e_7 + \frac{36}{239}\sqrt{26e^5} \otimes e_8$	{123456, 1357, 3678, 123456, 1357, 3678}
832:4	$0, 0, 0, 0, 0, \frac{5}{16}\sqrt{2e^{12}}, \frac{5}{32}\sqrt{6e^{16}} - \frac{5}{32}\sqrt{2e^{23}},$ $\frac{5}{32}\sqrt{2e^{13}} + \frac{5}{32}\sqrt{6e^{26}}$	$(\frac{3}{32}, \frac{3}{32}, \frac{3}{16}, 1, -\frac{9}{16}, \frac{3}{16}, \frac{9}{32}, \frac{9}{32})$ $+ \frac{25}{16}e^4 \otimes e_5$	{12478, 12578, 1468, 1568, 4, 5, 12478, 12578, 1468, 1568, 4, 5}
832:4	$0, 0, 0, 0, 0, \frac{5}{16}\sqrt{2e^{12}}, \frac{5}{32}\sqrt{6e^{16}} + \frac{5}{32}\sqrt{2e^{23}},$ $\frac{5}{32}\sqrt{2e^{13}} + \frac{5}{32}\sqrt{6e^{26}}$	$(\frac{3}{32}, \frac{3}{32}, \frac{3}{16}, 1, -\frac{9}{16}, \frac{3}{16}, \frac{9}{32}, \frac{9}{32})$ $+ \frac{25}{16}e^4 \otimes e_5$	{12478, 12578, 1468, 1568, 4, 5, 12478, 12578, 1468, 1568, 4, 5}
832:5	$0, 0, 0, 0, 0, \frac{41}{2429}\sqrt{58e^{12}}, \frac{615}{2429}\sqrt{2e^{13}} + \frac{82}{2429}\sqrt{43e^{26}},$ $\frac{41}{2429}\sqrt{690e^{16}} + \frac{82}{2429}\sqrt{151e^{34}}$	$(-\frac{41}{347}, \frac{369}{2429}, \frac{738}{2429}, -\frac{943}{2429}, \frac{1476}{2429}, \frac{82}{2429}, \frac{451}{2429}, -\frac{205}{2429})$ $+ \frac{41}{2429}\sqrt{1906e^3} \otimes e_4 + \frac{82}{2429}\sqrt{582e^5} \otimes e_8$	{1238, 23678}
832:5	$0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{7}\sqrt{14e^{13}} + \frac{1}{7}\sqrt{6e^{26}}, \frac{2}{7}\sqrt{2e^{16}} + \frac{1}{7}\sqrt{6e^{34}}$	$(0, \frac{1}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{22e^1} \otimes e_5 + \frac{4}{7}e^3 \otimes e_4$	{136, 357}
832:5	$0, 0, 0, 0, 0, \frac{28}{1429}\sqrt{285e^{12}}, \frac{84}{1429}\sqrt{7e^{13}} + \frac{28}{1429}\sqrt{577e^{26}},$ $\frac{28}{1429}\sqrt{239e^{16}} + \frac{112}{1429}\sqrt{23e^{34}}$	$(\frac{182}{1429}, -\frac{70}{1429}, -\frac{140}{1429}, \frac{434}{1429}, -\frac{462}{1429}, \frac{112}{1429}, \frac{42}{1429}, \frac{294}{1429})$ $+ \frac{196}{1429}\sqrt{13e^4} \otimes e_7 + \frac{28}{1429}\sqrt{627e^2} \otimes e_5$	{135678, 2346}
832:5	$0, 0, 0, 0, 0, \frac{2}{1121}\sqrt{81618e^{12}}, \frac{4}{1121}\sqrt{22746e^{13}} + \frac{42}{1121}\sqrt{223e^{26}},$ $\frac{30}{1121}\sqrt{223e^{16}} + \frac{12}{1121}\sqrt{8251e^{34}}$	$(\frac{319}{1121}, -\frac{39}{1121}, -\frac{78}{1121}, \frac{677}{1121}, -\frac{661}{1121}, \frac{280}{1121}, \frac{241}{1121}, \frac{599}{1121})$ $+ \frac{18}{1121}\sqrt{7359e^4} \otimes e_5$	{12347, 135678, 2346, 358}
832:5	$0, 0, 0, 0, 0, \frac{2}{1133}\sqrt{82797e^{12}}, \frac{2}{1133}\sqrt{118695e^{13}} + \frac{12}{1133}\sqrt{579e^{26}},$ $\frac{6}{1133}\sqrt{20651e^{16}} + \frac{6}{1133}\sqrt{21809e^{34}}$	$(-\frac{35}{1133}, \frac{45}{1133}, \frac{90}{1133}, -\frac{115}{1133}, 1, \frac{10}{1133}, \frac{5}{103}, -\frac{25}{1133})$ $+ \frac{6}{1133}\sqrt{58479e^5} \otimes e_8$	{12378, 134567, 2368, 345}
832:5	$0, 0, 0, 0, 0, \frac{42}{1145}\sqrt{482e^{12}}, \frac{42}{1145}\sqrt{301e^{13}} + \frac{42}{1145}\sqrt{502e^{26}},$ $\frac{84}{1145}\sqrt{15e^{16}} + \frac{42}{1145}\sqrt{191e^{34}}$	$(\frac{91}{1145}, \frac{161}{1145}, \frac{322}{1145}, \frac{21}{1145}, -\frac{721}{1145}, \frac{252}{1145}, \frac{413}{1145}, \frac{343}{1145})$ $+ \frac{42}{1145}\sqrt{933e^2} \otimes e_5$	{12347, 135678, 2346, 358}
832:5	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{57e^{12}}, \frac{1}{23}\sqrt{190e^{13}} + \frac{1}{23}\sqrt{114e^{26}},$ $\frac{4}{23}\sqrt{19e^{16}} + \frac{1}{23}\sqrt{114e^{34}}$	$(\frac{4}{23}, \frac{1}{23}, \frac{2}{23}, \frac{7}{23}, -\frac{15}{23}, \frac{5}{23}, \frac{6}{23}, \frac{9}{23})$ $+ \frac{19}{23}\sqrt{2e^1} \otimes e_5$	{12348, 136, 2345678, 357}
832:5	$0, 0, 0, 0, 0, \frac{102}{1327}\sqrt{5e^{12}}, \frac{34}{1327}\sqrt{33e^{13}} + \frac{68}{1327}\sqrt{69e^{26}},$ $\frac{34}{1327}\sqrt{29e^{16}} + \frac{714}{1327}e^{34}$	$(\frac{119}{1327}, -\frac{153}{1327}, -\frac{306}{1327}, \frac{391}{1327}, \frac{663}{1327}, -\frac{34}{1327}, -\frac{187}{1327}, \frac{85}{1327})$ $+ \frac{102}{1327}\sqrt{55e^5} \otimes e_8 + \frac{68}{1327}\sqrt{166e^4} \otimes e_7$	{1257, 48}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:5	$0, 0, 0, 0, 0, \frac{174}{3557}\sqrt{11}e^{12}, \frac{29}{3557}\sqrt{1830}e^{13} + \frac{116}{3557}\sqrt{83}e^{26},$ $\frac{58}{3557}\sqrt{401}e^{16} + \frac{58}{3557}\sqrt{574}e^{34}$	$(\frac{406}{3557}, -\frac{145}{3557}, -\frac{290}{3557}, \frac{957}{3557}, -\frac{1131}{3557}, \frac{261}{3557}, \frac{116}{3557}, \frac{667}{3557})$ $+ \frac{116}{3557}\sqrt{223}e^4 \otimes e_7 + \frac{638}{3557}\sqrt{6}e^3 \otimes e_5$	{134, 2378}
832:5	$0, 0, 0, 0, 0, \frac{35}{1973}\sqrt{970}e^{12}, \frac{105}{1973}\sqrt{14}e^{13} + \frac{210}{1973}\sqrt{29}e^{26},$ $\frac{35}{1973}\sqrt{222}e^{16} + \frac{350}{1973}\sqrt{3}e^{34}$	$(-\frac{35}{1973}, \frac{385}{1973}, \frac{770}{1973}, -\frac{455}{1973}, -\frac{840}{1973}, \frac{350}{1973}, \frac{735}{1973}, \frac{315}{1973})$ $+ \frac{210}{1973}\sqrt{62}e^2 \otimes e_5 + \frac{35}{1973}\sqrt{1162}e^3 \otimes e_4$	{135678, 358}
832:5	$0, 0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{53}\sqrt{22}e^{13} + \frac{10}{53}\sqrt{3}e^{26},$ $\frac{10}{53}e^{16} + \frac{10}{53}\sqrt{3}e^{34}$	$(\frac{10}{53}, -\frac{5}{53}, -\frac{10}{53}, \frac{25}{53}, -\frac{15}{53}, \frac{5}{53}, 0, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{11}e^1 \otimes e_5 + \frac{20}{53}\sqrt{3}e^4 \otimes e_7$	{167, 24568}
832:5	$0, 0, 0, 0, 0, \frac{5}{53}\sqrt{11}e^{12}, \frac{5}{53}\sqrt{42}e^{13} + \frac{5}{53}\sqrt{10}e^{26},$ $\frac{10}{53}\sqrt{3}e^{16} + \frac{5}{53}\sqrt{7}e^{34}$	$(-\frac{5}{53}, \frac{5}{53}, \frac{10}{53}, -\frac{15}{53}, \frac{30}{53}, 0, \frac{5}{53}, -\frac{5}{53})$ $+ \frac{5}{53}\sqrt{46}e^3 \otimes e_4 + \frac{5}{53}\sqrt{51}e^5 \otimes e_7$	{135, 367}
832:5	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{10}e^{12}, \frac{6}{17}\sqrt{5}e^{13} + \frac{3}{34}\sqrt{2}e^{26},$ $\frac{9}{17}e^{16} + \frac{3}{17}\sqrt{19}e^{34}$	$(\frac{1}{17}, \frac{29}{136}, \frac{29}{68}, -\frac{13}{136}, -\frac{43}{68}, \frac{37}{68}, \frac{33}{68}, \frac{45}{136})$ $+ \frac{3}{34}\sqrt{222}e^3 \otimes e_5$	{12368, 134, 2378, 3467}
832:5	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{10}e^{12}, \frac{6}{17}\sqrt{5}e^{13} + \frac{3}{17}\sqrt{19}e^{26},$ $\frac{9}{17}e^{16} + \frac{3}{34}\sqrt{2}e^{34}$	$(\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{3}{17}, 1, 0, -\frac{1}{17}, \frac{1}{17})$ $+ \frac{3}{34}\sqrt{222}e^5 \otimes e_7$	{123568, 1345, 2378, 3467}
832:5	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{371}e^{12}, \frac{6}{43}\sqrt{53}e^{13} + \frac{1}{43}\sqrt{318}e^{26},$ $\frac{1}{43}\sqrt{159}e^{16} + \frac{1}{43}\sqrt{318}e^{34}$	$(-\frac{11}{86}, \frac{14}{43}, \frac{28}{43}, -\frac{25}{43}, \frac{15}{86}, \frac{17}{86}, \frac{45}{86}, \frac{3}{43})$ $+ \frac{1}{43}\sqrt{3763}e^3 \otimes e_4$	{1457, 147, 456, 46}
832:6	$0, 0, 0, 0, 0, \frac{1}{99}\sqrt{1534}e^{12}, \frac{1}{99}\sqrt{3422}e^{16} + \frac{4}{99}\sqrt{177}e^{34},$ $\frac{4}{99}\sqrt{177}e^{26} + \frac{2}{99}\sqrt{2419}e^{35}$	$(-\frac{1}{66}, \frac{25}{99}, \frac{70}{99}, -\frac{16}{33}, -\frac{43}{198}, \frac{47}{198}, \frac{2}{9}, \frac{97}{198})$ $+ \frac{1}{99}\sqrt{18762}e^3 \otimes e_4$	{1356, 146, 38, 458}
832:6	$0, 0, 0, 0, 0, \frac{1}{207}\sqrt{4342}e^{12}, \frac{1}{207}\sqrt{12358}e^{16} + \frac{5}{207}\sqrt{1002}e^{34},$ $\frac{5}{207}\sqrt{1002}e^{26} + \frac{1}{207}\sqrt{6346}e^{35}$	$(\frac{7}{23}, -\frac{49}{207}, -\frac{55}{207}, \frac{44}{69}, \frac{20}{207}, \frac{14}{207}, \frac{77}{207}, -\frac{35}{207})$ $+ \frac{4}{207}\sqrt{3507}e^4 \otimes e_8$	{1258, 13678, 23456, 47}
832:6	$0, 0, 0, 0, 0, \frac{37}{3801}\sqrt{274}e^{12}, \frac{185}{3801}\sqrt{58}e^{16} + \frac{37}{3801}\sqrt{3070}e^{34},$ $\frac{37}{3801}\sqrt{2102}e^{26} + \frac{37}{3801}\sqrt{158}e^{35}$	$(\frac{333}{1267}, -\frac{37}{181}, \frac{407}{3801}, \frac{814}{3801}, -\frac{962}{3801}, \frac{74}{1267}, \frac{407}{1267}, -\frac{185}{1267})$ $+ \frac{74}{3801}\sqrt{969}e^4 \otimes e_8 + \frac{814}{3801}\sqrt{6}e^3 \otimes e_5$	{2346, 457}
832:6	$0, 0, 0, 0, 0, \frac{1}{6}e^{12}, \frac{1}{6}\sqrt{2}e^{16} + \frac{1}{12}\sqrt{22}e^{34},$ $\frac{1}{6}\sqrt{2}e^{26} + \frac{1}{12}\sqrt{22}e^{35}$	$(0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0)$ $+ \frac{1}{12}\sqrt{42}e^4 \otimes e_8 - \frac{1}{12}\sqrt{42}e^5 \otimes e_7$	{12378, 1568, 345}
832:6	$0, 0, 0, 0, 0, \frac{1}{6}e^{12}, \frac{1}{6}\sqrt{2}e^{16} + \frac{1}{12}\sqrt{22}e^{34},$ $\frac{1}{6}\sqrt{2}e^{26} + \frac{1}{12}\sqrt{22}e^{35}$	$(0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0)$ $+ \frac{1}{12}\sqrt{42}e^4 \otimes e_8 + \frac{1}{12}\sqrt{42}e^5 \otimes e_7$	{12378, 1568, 345}
832:6	$0, 0, 0, 0, 0, \frac{36}{581}\sqrt{10}e^{12}, \frac{18}{581}\sqrt{73}e^{16} + \frac{30}{581}\sqrt{6}e^{34},$ $\frac{6}{581}\sqrt{78}e^{26} + \frac{18}{581}\sqrt{73}e^{35}$	$(\frac{3}{83}, -\frac{27}{581}, -\frac{102}{581}, \frac{117}{581}, \frac{69}{581}, -\frac{6}{581}, \frac{15}{581}, -\frac{33}{581})$ $+ \frac{6}{581}\sqrt{663}e^5 \otimes e_7 + \frac{6}{581}\sqrt{879}e^1 \otimes e_8$	{127, 1356, 234678, 458}
832:6	$0, 0, 0, 0, 0, \frac{36}{581}\sqrt{10}e^{12}, \frac{18}{581}\sqrt{73}e^{16} + \frac{30}{581}\sqrt{6}e^{34},$ $\frac{6}{581}\sqrt{78}e^{26} + \frac{18}{581}\sqrt{73}e^{35}$	$(\frac{3}{83}, -\frac{27}{581}, -\frac{102}{581}, \frac{117}{581}, \frac{69}{581}, -\frac{6}{581}, \frac{15}{581}, -\frac{33}{581})$ $+ \frac{6}{581}\sqrt{663}e^5 \otimes e_7 - \frac{6}{581}\sqrt{879}e^1 \otimes e_8$	{127, 1356, 234678, 458}
832:7	$0, 0, 0, 0, 0, \frac{1}{106}\sqrt{4233}e^{12}, \frac{3}{212}\sqrt{1411}e^{16} + \frac{3}{212}\sqrt{5478}e^{23},$ $\frac{1}{212}\sqrt{20418}e^{14} + \frac{3}{212}\sqrt{1411}e^{26}$	$(\frac{113}{424}, -\frac{3}{424}, \frac{113}{212}, -\frac{3}{212}, -\frac{34}{53}, \frac{55}{212}, \frac{223}{424}, \frac{107}{424})$ $+ \frac{3}{106}\sqrt{2407}e^3 \otimes e_5$	{125678, 158, 257, 56}
832:7	$0, 0, 0, 0, 0, \frac{1}{257}\sqrt{310}e^{12}, \frac{2}{257}\sqrt{43}e^{16} + \frac{4}{257}\sqrt{13}e^{23},$ $\frac{4}{257}\sqrt{13}e^{14} + \frac{2}{257}\sqrt{43}e^{26}$	$(-\frac{1}{257}, -\frac{1}{257}, -\frac{2}{257}, -\frac{2}{257}, \frac{15}{257}, -\frac{2}{257}, -\frac{3}{257}, -\frac{3}{257})$ $+ \frac{11}{257}\sqrt{2}e^1 \otimes e_4 + \frac{11}{257}\sqrt{2}e^2 \otimes e_3$	{34, 345}
832:7	$0, 0, 0, 0, 0, \frac{33}{497}\sqrt{2}e^{12}, \frac{165}{497}e^{16} + \frac{11}{497}\sqrt{206}e^{23},$ $\frac{11}{497}\sqrt{337}e^{14} + \frac{44}{497}\sqrt{14}e^{26}$	$(-\frac{55}{994}, \frac{66}{497}, -\frac{55}{497}, \frac{132}{497}, -\frac{297}{994}, \frac{11}{142}, \frac{11}{497}, \frac{209}{994})$ $+ \frac{11}{497}\sqrt{393}e^1 \otimes e_5 + \frac{11}{497}\sqrt{505}e^4 \otimes e_7$	{1378, 3567}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:7	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{462e^{12}}, \frac{66}{125}\sqrt{2e^{16}} + \frac{6}{125}\sqrt{286e^{23}},$ $\frac{2}{125}\sqrt{330e^{14}} + \frac{12}{125}\sqrt{33e^{26}}$	$(-\frac{8}{125}, \frac{9}{125}, -\frac{16}{125}, \frac{18}{125}, 1, \frac{1}{125}, -\frac{7}{125}, \frac{2}{25})$ $+ \frac{12}{125}\sqrt{187e^5} \otimes e_7$	{123568, 1378, 235, 367}
832:7	$0, 0, 0, 0, 0, \frac{2}{899}\sqrt{116022e^{12}}, \frac{12}{899}\sqrt{3355e^{16}} + \frac{2}{899}\sqrt{54534e^{23}},$ $\frac{2}{899}\sqrt{35502e^{14}} + \frac{6}{899}\sqrt{1586e^{26}}$	$(\frac{5}{29}, \frac{32}{899}, \frac{10}{29}, \frac{64}{899}, -\frac{577}{899}, \frac{187}{899}, \frac{342}{899}, \frac{219}{899})$ $+ \frac{12}{899}\sqrt{7503e^1} \otimes e_5$	{12347, 1346, 2345678, 3458}
832:7	$0, 0, 0, 0, 0, \frac{69}{1211}\sqrt{10e^{12}}, \frac{23}{1211}\sqrt{122e^{16}} + \frac{46}{1211}\sqrt{141e^{23}},$ $\frac{69}{1211}\sqrt{94e^{14}} + \frac{92}{1211}\sqrt{6e^{26}}$	$(\frac{253}{1211}, -\frac{138}{1211}, \frac{506}{1211}, -\frac{276}{1211}, -\frac{276}{1211}, \frac{115}{1211}, \frac{368}{1211}, -\frac{23}{1211})$ $+ \frac{23}{1211}\sqrt{1282e^3} \otimes e_8 + \frac{69}{1211}\sqrt{94e^1} \otimes e_5$	{24578, 4568}
832:7	$0, 0, 0, 0, 0, \frac{26}{491}\sqrt{82e^{12}}, \frac{26}{491}\sqrt{110e^{16}} + \frac{52}{491}\sqrt{7e^{23}},$ $\frac{13}{491}\sqrt{223e^{14}} + \frac{13}{491}\sqrt{3e^{26}}$	$(\frac{52}{491}, -\frac{117}{982}, \frac{104}{491}, -\frac{117}{491}, \frac{429}{982}, -\frac{13}{982}, \frac{91}{982}, -\frac{65}{491})$ $+ \frac{13}{491}\sqrt{553e^1} \otimes e_4 + \frac{39}{491}\sqrt{37e^5} \otimes e_7$	{1237, 1356}
832:7	$0, 0, 0, 0, 0, \frac{18}{281}\sqrt{86e^{12}}, \frac{2}{281}\sqrt{7826e^{16}} + \frac{2}{281}\sqrt{12126e^{23}},$ $\frac{2}{281}\sqrt{12126e^{14}} + \frac{4}{281}\sqrt{645e^{26}}$	$(\frac{70}{281}, -\frac{51}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{39}{281}, \frac{19}{281}, \frac{89}{281}, -\frac{32}{281})$ $+ \frac{44}{281}\sqrt{43e^3} \otimes e_8$	{24578, 2478, 4568, 468}
832:7	$0, 0, 0, 0, 0, \frac{161}{2573}\sqrt{30e^{12}}, \frac{46}{2573}\sqrt{3e^{16}} + \frac{23}{2573}\sqrt{2698e^{23}},$ $\frac{46}{2573}\sqrt{518e^{14}} + \frac{23}{2573}\sqrt{1466e^{26}}$	$(-\frac{115}{2573}, \frac{299}{2573}, -\frac{230}{2573}, \frac{598}{2573}, -\frac{759}{2573}, \frac{184}{2573}, \frac{69}{2573}, \frac{483}{2573})$ $+ \frac{23}{2573}\sqrt{1878e^3} \otimes e_5 + \frac{46}{2573}\sqrt{727e^4} \otimes e_7$	{125678, 257}
832:7	$0, 0, 0, 0, 0, \frac{195}{491}e^{12}, \frac{13}{491}\sqrt{113e^{16}} + \frac{273}{491}e^{23},$ $\frac{13}{491}\sqrt{330e^{14}} + \frac{13}{491}\sqrt{3e^{26}}$	$(\frac{52}{491}, -\frac{117}{982}, \frac{104}{491}, -\frac{117}{491}, \frac{429}{982}, -\frac{13}{982}, \frac{91}{982}, -\frac{65}{491})$ $+ \frac{13}{491}\sqrt{553e^3} \otimes e_8 + \frac{39}{491}\sqrt{37e^5} \otimes e_7$	{12678, 158}
832:7	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{13846e^{12}}, \frac{2}{281}\sqrt{12986e^{16}} + \frac{2}{281}\sqrt{8686e^{23}},$ $\frac{2}{281}\sqrt{8686e^{14}} + \frac{4}{281}\sqrt{645e^{26}}$	$(\frac{70}{281}, -\frac{51}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{39}{281}, \frac{19}{281}, \frac{89}{281}, -\frac{32}{281})$ $+ \frac{44}{281}\sqrt{43e^1} \otimes e_4$	{234567, 23467, 34, 345}
832:7	$0, 0, 0, 0, 0, \frac{1}{257}\sqrt{174e^{12}}, \frac{1}{257}\sqrt{70e^{16}} + \frac{2}{257}\sqrt{69e^{23}},$ $\frac{1}{257}\sqrt{69e^{14}} + \frac{1}{257}\sqrt{70e^{26}}$	$(-\frac{1}{257}, -\frac{1}{257}, -\frac{2}{257}, -\frac{2}{257}, \frac{15}{257}, \frac{2}{257}, -\frac{3}{257}, -\frac{3}{257})$ $+ \frac{11}{257}\sqrt{2e^3} \otimes e_8 + \frac{11}{257}\sqrt{2e^4} \otimes e_7$	{125678, 12678}
832:7	$0, 0, 0, 0, 0, \frac{11}{497}\sqrt{487e^{12}}, \frac{11}{497}\sqrt{281e^{16}} + \frac{22}{497}\sqrt{42e^{23}},$ $\frac{11}{497}\sqrt{299e^{14}} + \frac{165}{497}e^{26}$	$(\frac{66}{497}, -\frac{55}{994}, \frac{132}{497}, -\frac{55}{497}, -\frac{297}{994}, \frac{11}{142}, \frac{209}{994}, \frac{11}{497})$ $+ \frac{11}{497}\sqrt{393e^2} \otimes e_5 + \frac{11}{497}\sqrt{505e^1} \otimes e_4$	{23467, 345}
832:7	$0, 0, 0, 0, 0, \frac{25}{1199}\sqrt{934e^{12}}, \frac{50}{1199}\sqrt{203e^{16}} + \frac{25}{1199}\sqrt{606e^{23}},$ $\frac{30}{1199}\sqrt{101e^{14}} + \frac{25}{1199}\sqrt{366e^{26}}$	$(\frac{225}{1199}, -\frac{200}{1199}, \frac{450}{1199}, -\frac{400}{1199}, \frac{450}{1199}, \frac{25}{1199}, \frac{250}{1199}, -\frac{175}{1199})$ $+ \frac{25}{1199}\sqrt{1498e^1} \otimes e_4 + \frac{25}{1199}\sqrt{606e^5} \otimes e_8$	{234567, 345}
832:7	$0, 0, 0, 0, 0, \frac{25}{1109}\sqrt{910e^{12}}, \frac{50}{1109}\sqrt{218e^{16}} + \frac{25}{1109}\sqrt{398e^{23}},$ $\frac{150}{1109}\sqrt{15e^{14}} + \frac{25}{1109}\sqrt{114e^{26}}$	$(\frac{275}{1109}, -\frac{175}{1109}, \frac{550}{1109}, -\frac{350}{1109}, -\frac{75}{1109}, \frac{100}{1109}, \frac{375}{1109}, -\frac{75}{1109})$ $+ \frac{25}{1109}\sqrt{426e^3} \otimes e_5 + \frac{50}{1109}\sqrt{379e^1} \otimes e_4$	{23467, 34}
832:8	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{10e^{12}}, \frac{3}{17}\sqrt{19e^{16}},$ $\frac{6}{17}\sqrt{5e^{13}} + \frac{9}{17}e^{26} + \frac{3}{34}\sqrt{2e^{45}}$	$(-\frac{6}{17}, \frac{6}{17}, \frac{12}{17}, \frac{3}{17}, \frac{3}{17}, 0, -\frac{6}{17}, \frac{6}{17})$ $+ \frac{3}{34}\sqrt{222e^3} \otimes e_7$	{1478, 4567, 67}
832:8	$0, 0, 0, 0, 0, \frac{4}{367}\sqrt{1995e^{12}}, \frac{12}{367}\sqrt{190e^{16}},$ $\frac{2}{367}\sqrt{570e^{13}} + \frac{12}{367}\sqrt{95e^{26}} + \frac{12}{367}\sqrt{190e^{45}}$	$(\frac{32}{367}, \frac{42}{367}, \frac{84}{367}, \frac{343}{367}, -\frac{227}{367}, \frac{74}{367}, \frac{106}{367}, \frac{116}{367})$ $+ \frac{570}{367}e^4 \otimes e_5$	{123478, 123578, 13468, 13568}
832:8	$0, 0, 0, 0, 0, \frac{8}{373}\sqrt{429e^{12}}, \frac{12}{373}\sqrt{649e^{16}},$ $\frac{8}{373}\sqrt{759e^{13}} + \frac{132}{373}\sqrt{2e^{26}} + \frac{12}{373}\sqrt{649e^{45}}$	$(-\frac{73}{373}, \frac{78}{373}, \frac{156}{373}, \frac{196}{373}, -\frac{113}{373}, \frac{5}{373}, -\frac{68}{373}, \frac{83}{373})$ $+ \frac{12}{373}\sqrt{1133e^4} \otimes e_7$	{127, 1456, 25678, 48}
832:8	$0, 0, 0, 0, 0, \frac{42}{3385}\sqrt{458e^{12}}, \frac{21}{3385}\sqrt{3202e^{16}},$ $\frac{42}{3385}\sqrt{469e^{13}} + \frac{168}{3385}\sqrt{15e^{26}} + \frac{42}{3385}\sqrt{554e^{45}}$	$(\frac{231}{3385}, -\frac{21}{677}, -\frac{42}{677}, \frac{798}{3385}, -\frac{777}{3385}, \frac{126}{3385}, \frac{357}{3385}, \frac{21}{3385})$ $+ \frac{21}{3385}\sqrt{2958e^1} \otimes e_3 + \frac{63}{677}\sqrt{14e^4} \otimes e_7$	{127, 1456}
832:8	$0, 0, 0, 0, 0, \frac{42}{1145}\sqrt{482e^{12}}, \frac{42}{1145}\sqrt{502e^{16}},$ $\frac{42}{1145}\sqrt{301e^{13}} + \frac{84}{1145}\sqrt{15e^{26}} + \frac{42}{1145}\sqrt{191e^{45}}$	$(\frac{462}{1145}, -\frac{42}{229}, -\frac{84}{229}, \frac{21}{1145}, \frac{21}{1145}, \frac{252}{1145}, \frac{714}{1145}, \frac{42}{1145})$ $+ \frac{42}{1145}\sqrt{933e^1} \otimes e_3$	{12457, 127, 1456, 16}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:8	$0, 0, 0, 0, 0, \frac{3}{52}\sqrt{10}e^{12}, \frac{3}{26}\sqrt{19}e^{16},$ $\frac{3}{13}\sqrt{5}e^{13} + \frac{9}{26}e^{26} + \frac{3}{52}\sqrt{2}e^{45}$	$(-\frac{3}{13}, \frac{3}{13}, \frac{6}{13}, \frac{6}{13}, -\frac{3}{13}, 0, -\frac{3}{13}, \frac{3}{13})$ $+ \frac{3}{52}\sqrt{222}e^3 \otimes e_7 + \frac{9}{13}e^4 \otimes e_5$	{1478, 1578}
832:9	$0, 0, 0, 0, 0, \frac{11}{19}e^{12}, \frac{1}{19}\sqrt{66}e^{13} + \frac{1}{38}\sqrt{22}e^{26},$ $\frac{2}{19}\sqrt{33}e^{16} + \frac{1}{38}\sqrt{110}e^{45}$	$(\frac{5}{19}, -\frac{3}{19}, -\frac{6}{19}, \frac{9}{19}, -\frac{2}{19}, \frac{2}{19}, -\frac{1}{19}, \frac{7}{19})$ $+ \frac{11}{19}e^4 \otimes e_5 + \frac{3}{38}\sqrt{110}e^1 \otimes e_3$	{146, 156}
832:9	$0, 0, 0, 0, 0, \frac{23}{3281}\sqrt{570}e^{12}, \frac{138}{3281}\sqrt{66}e^{13} + \frac{23}{3281}\sqrt{822}e^{26},$ $\frac{23}{3281}\sqrt{818}e^{16} + \frac{46}{3281}\sqrt{615}e^{45}$	$(-\frac{161}{3281}, \frac{207}{3281}, \frac{414}{3281}, \frac{46}{193}, -\frac{897}{3281}, \frac{46}{3281}, \frac{253}{3281}, -\frac{115}{3281})$ $+ \frac{23}{3281}\sqrt{3358}e^4 \otimes e_7 + \frac{69}{3281}\sqrt{282}e^3 \otimes e_8$	{1345, 367}
832:9	$0, 0, 0, 0, 0, \frac{22}{27}e^{12}, \frac{2}{27}\sqrt{66}e^{13} + \frac{1}{27}\sqrt{22}e^{26},$ $\frac{4}{27}\sqrt{33}e^{16} + \frac{1}{27}\sqrt{110}e^{45}$	$(\frac{10}{27}, -\frac{2}{9}, -\frac{4}{9}, \frac{7}{27}, \frac{7}{27}, \frac{4}{27}, -\frac{2}{27}, \frac{14}{27})$ $+ \frac{1}{9}\sqrt{110}e^1 \otimes e_3$	{12458, 128, 146}
832:9	$0, 0, 0, 0, 0, \frac{8}{1223}\sqrt{1677}e^{12}, \frac{48}{1223}\sqrt{258}e^{13} + \frac{4}{1223}\sqrt{33798}e^{26},$ $\frac{8}{1223}\sqrt{8342}e^{16} + \frac{4}{1223}\sqrt{46182}e^{45}$	$(\frac{232}{1223}, -\frac{117}{1223}, -\frac{234}{1223}, \frac{686}{1223}, -\frac{339}{1223}, \frac{115}{1223}, -\frac{2}{1223}, \frac{347}{1223})$ $+ \frac{20}{1223}\sqrt{3526}e^4 \otimes e_7$	{123468, 1345, 23578, 367}
832:9	$0, 0, 0, 0, 0, \frac{8}{241}\sqrt{187}e^{12}, \frac{2}{241}\sqrt{1122}e^{13} + \frac{2}{241}\sqrt{2618}e^{26},$ $\frac{2}{241}\sqrt{1122}e^{16} + \frac{8}{241}\sqrt{187}e^{45}$	$(\frac{26}{241}, \frac{24}{241}, \frac{48}{241}, \frac{225}{241}, \frac{149}{241}, \frac{50}{241}, \frac{74}{241}, \frac{76}{241})$ $+ \frac{374}{241}e^4 \otimes e_5$	{12478, 12578, 2468, 2568}
832:9	$0, 0, 0, 0, 0, \frac{46}{1233}\sqrt{59}e^{12}, \frac{46}{137}\sqrt{5}e^{13} + \frac{46}{1233}\sqrt{127}e^{26},$ $\frac{92}{1233}\sqrt{51}e^{16} + \frac{322}{1233}\sqrt{7}e^{45}$	$(-\frac{322}{1233}, \frac{46}{137}, \frac{92}{137}, -\frac{115}{1233}, -\frac{115}{1233}, \frac{92}{1233}, \frac{506}{1233}, -\frac{230}{1233})$ $+ \frac{46}{1233}\sqrt{1005}e^3 \otimes e_8$	{1478, 468}
832:9	$0, 0, 0, 0, 0, \frac{23}{881}\sqrt{59}e^{12}, \frac{207}{881}\sqrt{5}e^{13} + \frac{23}{881}\sqrt{127}e^{26},$ $\frac{46}{881}\sqrt{51}e^{16} + \frac{161}{881}\sqrt{7}e^{45}$	$(-\frac{161}{881}, \frac{207}{881}, \frac{414}{881}, \frac{207}{881}, -\frac{322}{881}, \frac{46}{881}, \frac{253}{881}, -\frac{115}{881})$ $+ \frac{23}{881}\sqrt{1005}e^3 \otimes e_8 - \frac{529}{881}e^4 \otimes e_5$	{1478, 1578, 468, 568}
832:9	$0, 0, 0, 0, 0, \frac{23}{881}\sqrt{59}e^{12}, \frac{207}{881}\sqrt{5}e^{13} + \frac{23}{881}\sqrt{127}e^{26},$ $\frac{46}{881}\sqrt{51}e^{16} + \frac{161}{881}\sqrt{7}e^{45}$	$(-\frac{161}{881}, \frac{207}{881}, \frac{414}{881}, \frac{207}{881}, -\frac{322}{881}, \frac{46}{881}, \frac{253}{881}, -\frac{115}{881})$ $+ \frac{23}{881}\sqrt{1005}e^3 \otimes e_8 + \frac{529}{881}e^4 \otimes e_5$	{1478, 1578, 468, 568}
832:9	$0, 0, 0, 0, 0, \frac{11}{233}\sqrt{30}e^{12}, \frac{33}{233}\sqrt{10}e^{13} + \frac{11}{233}\sqrt{105}e^{26},$ $\frac{55}{233}\sqrt{2}e^{16} + \frac{33}{233}\sqrt{15}e^{45}$	$(\frac{55}{233}, -\frac{33}{233}, -\frac{66}{233}, \frac{110}{233}, -\frac{33}{233}, \frac{22}{233}, -\frac{11}{233}, \frac{77}{233})$ $+ \frac{11}{233}\sqrt{111}e^1 \otimes e_3 + \frac{11}{233}\sqrt{286}e^4 \otimes e_7$	{127, 15678}
832:10	$0, 0, 0, 0, 0, \frac{13}{763}\sqrt{690}e^{12}, \frac{39}{763}\sqrt{214}e^{16} + \frac{39}{763}\sqrt{74}e^{34},$ $\frac{26}{763}\sqrt{318}e^{13} + \frac{39}{763}\sqrt{66}e^{26} + \frac{39}{763}\sqrt{214}e^{45}$	$(-\frac{13}{109}, \frac{117}{763}, \frac{234}{763}, -\frac{299}{763}, \frac{442}{763}, \frac{26}{763}, -\frac{65}{763}, \frac{143}{763})$ $+ \frac{78}{763}\sqrt{105}e^5 \otimes e_7$	{24678, 58}
832:10	$0, 0, 0, 0, 0, \frac{17}{739}\sqrt{438}e^{12}, \frac{255}{739}\sqrt{2}e^{16} + \frac{51}{739}\sqrt{214}e^{34},$ $\frac{34}{739}\sqrt{111}e^{13} + \frac{51}{739}\sqrt{82}e^{26} + \frac{255}{739}\sqrt{2}e^{45}$	$(\frac{221}{739}, -\frac{51}{739}, -\frac{102}{739}, \frac{493}{739}, -\frac{374}{739}, \frac{170}{739}, \frac{391}{739}, \frac{119}{739})$ $+ \frac{306}{739}\sqrt{11}e^4 \otimes e_5$	{2346, 357}
832:11	$0, 0, 0, 0, 0, \frac{30}{577}\sqrt{5}e^{12}, -\frac{15}{577}\sqrt{453}e^{13} + \frac{15}{577}\sqrt{463}e^{26},$ $\frac{15}{577}\sqrt{339}e^{16} + \frac{15}{577}\sqrt{349}e^{23} + \frac{15}{577}\sqrt{614}e^{45}$	$(\frac{15}{577}, \frac{15}{577}, \frac{30}{577}, \frac{270}{577}, -\frac{225}{577}, \frac{30}{577}, \frac{45}{577}, \frac{45}{577})$ $+ \frac{45}{577}\sqrt{110}e^4 \otimes e_7$	{127, 15678, 2456, 48, 127, 15678, 2456, 48}
832:11	$0, 0, 0, 0, 0, \frac{30}{577}\sqrt{5}e^{12}, \frac{15}{577}\sqrt{453}e^{13} + \frac{15}{577}\sqrt{463}e^{26},$ $\frac{15}{577}\sqrt{339}e^{16} + \frac{15}{577}\sqrt{349}e^{23} + \frac{15}{577}\sqrt{614}e^{45}$	$(\frac{15}{577}, \frac{15}{577}, \frac{30}{577}, \frac{270}{577}, -\frac{225}{577}, \frac{30}{577}, \frac{45}{577}, \frac{45}{577})$ $+ \frac{45}{577}\sqrt{110}e^4 \otimes e_7$	{127, 15678, 2456, 48, 127, 15678, 2456, 48}
832:12	$0, 0, 0, 0, 0, \frac{5}{14}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{30}e^{13} + \frac{1}{14}\sqrt{6}e^{26},$ $\frac{3}{14}\sqrt{6}e^{16} + \frac{1}{7}\sqrt{30}e^{24} + \frac{1}{14}\sqrt{57}e^{35}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{3}{14}\sqrt{17}e^4 \otimes e_7$	{12678, 157}
832:12	$0, 0, 0, 0, 0, \frac{13}{463}\sqrt{714}e^{12}, \frac{39}{463}\sqrt{186}e^{13} + \frac{78}{463}\sqrt{17}e^{26},$ $\frac{39}{463}\sqrt{34}e^{16} + \frac{26}{463}\sqrt{222}e^{24} + \frac{78}{463}\sqrt{17}e^{35}$	$(-\frac{39}{463}, \frac{143}{463}, \frac{286}{463}, -\frac{78}{463}, -\frac{221}{463}, \frac{104}{463}, \frac{247}{463}, \frac{65}{463})$ $+ \frac{39}{463}\sqrt{262}e^3 \otimes e_5$	{157, 56}
832:12	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{330}e^{12}, \frac{3}{47}\sqrt{22}e^{13} + \frac{3}{47}\sqrt{154}e^{26},$ $\frac{3}{47}\sqrt{66}e^{16} + \frac{2}{47}\sqrt{165}e^{24} + \frac{3}{47}\sqrt{154}e^{35}$	$(\frac{9}{47}, -\frac{8}{47}, -\frac{16}{47}, \frac{18}{47}, \frac{26}{47}, \frac{1}{47}, -\frac{7}{47}, \frac{10}{47})$ $+ \frac{3}{47}\sqrt{286}e^5 \otimes e_7$	{127, 58}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
832:12	$0, 0, 0, 0, 0, \frac{7}{499}\sqrt{2202}e^{12}, \frac{7}{499}\sqrt{1806}e^{13} + \frac{14}{499}\sqrt{534}e^{26},$ $\frac{21}{499}\sqrt{22}e^{16} + \frac{7}{499}\sqrt{1806}e^{24} + \frac{7}{499}\sqrt{1266}e^{35}$	$(-\frac{35}{499}, \frac{77}{499}, \frac{154}{499}, -\frac{70}{499}, -\frac{147}{499}, \frac{42}{499}, \frac{119}{499}, \frac{7}{499})$ $+ \frac{21}{499}\sqrt{290}e^2 \otimes e_4$	{134567, 345}
831:1	$0, 0, 0, 0, 0, \frac{4}{1291}\sqrt{14705}e^{12}, \frac{20}{1291}\sqrt{170}e^{13}, \frac{4}{1291}\sqrt{15555}e^{16}$	$(\frac{33}{1291}, \frac{66}{1291}, -\frac{307}{1291}, \frac{119}{1291}, \frac{472}{1291}, \frac{99}{1291}, -\frac{274}{1291}, \frac{132}{1291})$ $+ \frac{2}{1291}\sqrt{49810}e^2 \otimes e_7 + \frac{2}{1291}\sqrt{60010}e^5 \otimes e_8 + \frac{4}{1291}\sqrt{22355}e^1 \otimes e_3$	{1248, 128, 23468, 2368}
831:1	$0, 0, 0, 0, 0, \frac{4}{65}\sqrt{51}e^{12}, \frac{2}{65}\sqrt{102}e^{13}, \frac{4}{65}\sqrt{51}e^{16}$	$(\frac{4}{65}, \frac{2}{13}, \frac{12}{65}, 1, -\frac{37}{65}, \frac{14}{65}, \frac{16}{65}, \frac{18}{65})$ $+ \frac{102}{65}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 1346, 1356, 1467, 1567, 234678, 235678, 2468, 2568, 347, 357, 4, 5}
831:1	$0, 0, 0, 0, 0, \frac{4}{65}\sqrt{33}e^{12}, \frac{2}{325}\sqrt{1914}e^{13}, \frac{4}{65}\sqrt{33}e^{16}$	$(\frac{17}{325}, \frac{9}{325}, -\frac{49}{325}, -\frac{57}{325}, \frac{109}{325}, \frac{2}{325}, -\frac{32}{325}, \frac{43}{325})$ $+ \frac{2}{325}\sqrt{2739}e^2 \otimes e_4 + \frac{2}{325}\sqrt{2739}e^5 \otimes e_8 + \frac{2}{325}\sqrt{4389}e^1 \otimes e_3$	{128, 1456, 2368, 345}
831:1	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{133}e^{12}, \frac{8}{181}\sqrt{95}e^{13}, \frac{4}{181}\sqrt{57}e^{16}$	$(-\frac{43}{181}, \frac{68}{181}, \frac{35}{181}, -\frac{41}{181}, \frac{58}{181}, \frac{25}{181}, -\frac{8}{181}, -\frac{18}{181})$ $+ \frac{2}{181}\sqrt{1558}e^5 \otimes e_8 + \frac{2}{181}\sqrt{2470}e^2 \otimes e_7 + \frac{4}{181}\sqrt{551}e^3 \otimes e_4$	{1238, 14567, 2468, 357}
831:1	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{4}\sqrt{15}e^{13}, \frac{1}{8}\sqrt{10}e^{16}$	$(-\frac{1}{16}, \frac{1}{4}, -\frac{3}{16}, 1, \frac{3}{16}, \frac{3}{16}, -\frac{1}{4}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^4 \otimes e_7$	{1234568, 123468, 125678, 12678, 134, 1345, 157, 17, 23578, 2378, 2458, 248, 3567, 367, 456, 46}
831:1	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{87}e^{12}, \frac{1}{57}\sqrt{1334}e^{13}, \frac{2}{57}\sqrt{87}e^{16}$	$(-\frac{2}{19}, \frac{11}{57}, \frac{8}{57}, \frac{31}{57}, -\frac{7}{19}, \frac{5}{57}, \frac{2}{57}, -\frac{1}{57})$ $+ \frac{2}{57}\sqrt{377}e^3 \otimes e_5 + \frac{2}{57}\sqrt{377}e^4 \otimes e_7$	{123468, 125678, 134, 157, 2378, 2458, 367, 456}
831:1	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{474}e^{12}, \frac{1}{121}\sqrt{2054}e^{13}, \frac{3}{121}\sqrt{474}e^{16}$	$(-\frac{26}{121}, \frac{41}{121}, \frac{28}{121}, \frac{68}{121}, -\frac{38}{121}, \frac{15}{121}, \frac{2}{121}, -\frac{11}{121})$ $+ \frac{1}{121}\sqrt{8374}e^2 \otimes e_5 + \frac{1}{121}\sqrt{8374}e^4 \otimes e_8$	{12378, 128, 134567, 1456, 2368, 2678, 345, 457}
831:1	$0, 0, 0, 0, 0, \frac{12}{199}\sqrt{246}e^{12}, \frac{2}{199}\sqrt{2091}e^{13}, \frac{2}{199}\sqrt{2337}e^{16}$	$(-\frac{34}{199}, \frac{127}{199}, \frac{57}{199}, -\frac{119}{199}, \frac{40}{199}, \frac{93}{199}, \frac{23}{199}, \frac{59}{199})$ $+ \frac{6}{199}\sqrt{2173}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 23568, 2368, 25678, 2678, 34, 345, 457, 47}
831:1	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12}, \frac{1}{2}e^{13}, \frac{1}{4}\sqrt{2}e^{16}$	$(\frac{1}{8}, 0, \frac{1}{4}, -\frac{3}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{3}{8}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{2}e^1 \otimes e_4 + \frac{1}{4}\sqrt{6}e^3 \otimes e_5$	{1238, 12578, 136, 1567, 234678, 24568, 347, 45}
831:1	$0, 0, 0, 0, 0, \frac{4}{655}\sqrt{5258}e^{12}, \frac{2}{655}\sqrt{14579}e^{13}, \frac{1}{655}\sqrt{123802}e^{16}$	$(\frac{93}{655}, -\frac{107}{655}, -\frac{146}{655}, \frac{318}{655}, \frac{69}{655}, -\frac{14}{655}, -\frac{53}{655}, \frac{79}{655})$ $+ \frac{1}{655}\sqrt{119022}e^4 \otimes e_8 + \frac{1}{655}\sqrt{161086}e^1 \otimes e_3$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}
831:1	$0, 0, 0, 0, 0, \frac{4}{643}\sqrt{2010}e^{12}, \frac{1}{643}\sqrt{142710}e^{13}, \frac{2}{643}\sqrt{8710}e^{16}$	$(\frac{152}{643}, -\frac{183}{643}, -\frac{144}{643}, \frac{343}{643}, \frac{69}{643}, -\frac{31}{643}, \frac{8}{643}, \frac{121}{643})$ $+ \frac{10}{643}\sqrt{2010}e^1 \otimes e_2 + \frac{2}{643}\sqrt{45895}e^4 \otimes e_7$	{13458, 1348, 1578, 178, 2357, 237, 24, 245}
831:1	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{42}e^{12}, \frac{2}{103}\sqrt{462}e^{13}, \frac{4}{103}\sqrt{42}e^{16}$	$(-\frac{28}{103}, \frac{38}{103}, \frac{24}{103}, -\frac{11}{103}, \frac{31}{103}, \frac{10}{103}, -\frac{4}{103}, -\frac{18}{103})$ $+ \frac{12}{103}\sqrt{21}e^2 \otimes e_7 + \frac{12}{103}\sqrt{21}e^3 \otimes e_8 + \frac{42}{103}e^5 \otimes e_4$	{2468, 2568, 347, 357}
831:1	$0, 0, 0, 0, 0, \frac{1}{523}\sqrt{55918}e^{12}, \frac{5}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{2298}e^{16}$	$(-\frac{79}{523}, \frac{221}{523}, \frac{220}{523}, -\frac{162}{523}, -\frac{163}{523}, \frac{142}{523}, \frac{141}{523}, \frac{63}{523})$ $+ \frac{1}{523}\sqrt{175414}e^3 \otimes e_5 + \frac{1}{523}\sqrt{43662}e^2 \otimes e_4$	{123, 1257, 13468, 145678, 2367, 256, 3478, 458}
831:1	$0, 0, 0, 0, 0, \frac{4}{643}\sqrt{2010}e^{12}, \frac{1}{643}\sqrt{142710}e^{13}, \frac{2}{643}\sqrt{8710}e^{16}$	$(\frac{152}{643}, -\frac{183}{643}, \frac{130}{643}, -\frac{205}{643}, \frac{69}{643}, -\frac{31}{643}, \frac{282}{643}, \frac{121}{643})$ $+ \frac{10}{643}\sqrt{2010}e^1 \otimes e_2 + \frac{2}{643}\sqrt{45895}e^3 \otimes e_4$	{1358, 138, 14578, 1478, 2357, 237, 24, 245}
831:1	$0, 0, 0, 0, 0, \frac{4}{313}\sqrt{111}e^{12}, \frac{4}{313}\sqrt{1443}e^{13}, \frac{10}{313}\sqrt{222}e^{16}$	$(\frac{104}{313}, -\frac{118}{313}, -\frac{12}{313}, \frac{151}{313}, -\frac{71}{313}, -\frac{14}{313}, \frac{92}{313}, \frac{90}{313})$ $+ \frac{18}{313}\sqrt{222}e^1 \otimes e_2 + \frac{222}{313}e^4 \otimes e_5$	{1348, 1358, 1478, 1578, 2347, 2357, 24, 25}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:1	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{345}e^{12}, \frac{7}{181}\sqrt{138}e^{13}, \frac{2}{181}\sqrt{1518}e^{16}$	$(\frac{17}{181}, -\frac{52}{181}, \frac{51}{181}, \frac{19}{181}, \frac{19}{181}, -\frac{35}{181}, \frac{68}{181}, -\frac{18}{181})$ $+\frac{9}{181}\sqrt{138}e^1 \otimes e_2 + \frac{9}{181}\sqrt{138}e^3 \otimes e_8$	{14578, 1478, 178, 23457, 2347, 237}
831:1	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{111}e^{12}, \frac{2}{101}\sqrt{1443}e^{13}, \frac{5}{101}\sqrt{222}e^{16}$	$(\frac{52}{101}, -\frac{59}{101}, -\frac{6}{101}, \frac{20}{101}, \frac{20}{101}, -\frac{7}{101}, \frac{46}{101}, \frac{45}{101})$ $+\frac{9}{101}\sqrt{222}e^1 \otimes e_2$	{13458, 1348, 138, 14578, 1478, 178, 2, 23457, 2347, 237, 24, 245}
831:1	$0, 0, 0, 0, 0, \frac{12}{95}\sqrt{21}e^{12}, \frac{28}{95}\sqrt{2}e^{13}, \frac{12}{95}\sqrt{21}e^{16}$	$(\frac{27}{95}, -\frac{3}{19}, \frac{29}{95}, \frac{8}{19}, -\frac{16}{95}, \frac{12}{95}, -\frac{2}{95}, \frac{39}{95})$ $+\frac{4}{95}\sqrt{385}e^1 \otimes e_3 + \frac{56}{95}e^4 \otimes e_5$	{1248, 1258, 146, 156, 23468, 23568, 34, 35}
831:1	$0, 0, 0, 0, 0, \frac{6}{451}\sqrt{190}e^{12}, \frac{1}{451}\sqrt{26790}e^{13}, \frac{8}{451}\sqrt{190}e^{16}$	$(\frac{14}{451}, -\frac{81}{451}, \frac{42}{451}, \frac{3}{41}, \frac{151}{451}, -\frac{67}{451}, \frac{56}{451}, -\frac{53}{451})$ $+\frac{10}{451}\sqrt{285}e^1 \otimes e_2 + \frac{10}{451}\sqrt{285}e^3 \otimes e_8 + \frac{2}{451}\sqrt{5605}e^5 \otimes e_7$	{1478, 178, 2347, 237}
831:1	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{57}e^{12}, \frac{8}{181}\sqrt{95}e^{13}, \frac{4}{181}\sqrt{133}e^{16}$	$(-\frac{43}{181}, \frac{52}{181}, \frac{42}{181}, -\frac{24}{181}, \frac{75}{181}, \frac{9}{181}, -\frac{1}{181}, -\frac{34}{181})$ $+\frac{2}{181}\sqrt{1558}e^2 \otimes e_4 + \frac{2}{181}\sqrt{2470}e^3 \otimes e_8 + \frac{4}{181}\sqrt{551}e^5 \otimes e_7$	{1278, 13456, 2568, 347}
831:1	$0, 0, 0, 0, 0, \frac{2}{1321}\sqrt{87474}e^{12}, \frac{8}{1321}\sqrt{239}e^{13}, \frac{4}{1321}\sqrt{13623}e^{16}$	$(\frac{90}{1321}, \frac{180}{1321}, -\frac{388}{1321}, -\frac{107}{1321}, \frac{371}{1321}, \frac{270}{1321}, -\frac{298}{1321}, \frac{360}{1321})$ $+\frac{478}{1321}e^5 \otimes e_4 + \frac{4}{1321}\sqrt{32026}e^1 \otimes e_3 + \frac{6}{1321}\sqrt{10994}e^2 \otimes e_7$	{1248, 1258, 23468, 23568}
831:1	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{111}e^{12}, \frac{2}{101}\sqrt{1443}e^{13}, \frac{5}{101}\sqrt{222}e^{16}$	$(-\frac{29}{101}, \frac{22}{101}, \frac{75}{101}, \frac{20}{101}, \frac{20}{101}, -\frac{7}{101}, \frac{46}{101}, -\frac{36}{101})$ $+\frac{9}{101}\sqrt{222}e^3 \otimes e_8$	{123456, 12346, 1236, 14578, 1478, 178, 23457, 2347, 237, 4568, 468, 68}
831:1	$0, 0, 0, 0, 0, \frac{1}{523}\sqrt{2298}e^{12}, \frac{5}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{55918}e^{16}$	$(-\frac{79}{523}, \frac{69}{523}, -\frac{9}{523}, \frac{295}{523}, \frac{294}{523}, -\frac{10}{523}, -\frac{88}{523}, -\frac{89}{523})$ $+\frac{1}{523}\sqrt{175414}e^4 \otimes e_7 + \frac{2}{523}\sqrt{43662}e^5 \otimes e_8$	{123456, 12567, 1348, 178, 2357, 245, 3678, 468}
831:1	$0, 0, 0, 0, 0, \frac{4}{261}\sqrt{114}e^{12}, \frac{1}{261}\sqrt{7638}e^{13}, \frac{2}{261}\sqrt{1254}e^{16}$	$(-\frac{4}{87}, \frac{7}{261}, \frac{40}{261}, -\frac{23}{87}, \frac{85}{261}, -\frac{5}{261}, \frac{28}{261}, -\frac{17}{261})$ $+\frac{2}{261}\sqrt{1767}e^5 \otimes e_7 + \frac{2}{261}\sqrt{2622}e^1 \otimes e_4 + \frac{2}{87}\sqrt{266}e^3 \otimes e_8$	{1278, 1356, 24568, 347}
831:1	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{649}e^{12}, \frac{2}{169}\sqrt{1003}e^{13}, \frac{3}{169}\sqrt{590}e^{16}$	$(-\frac{1}{169}, -\frac{2}{169}, \frac{55}{169}, -\frac{60}{169}, \frac{20}{169}, -\frac{3}{169}, \frac{54}{169}, -\frac{4}{169})$ $+\frac{1}{169}\sqrt{8142}e^3 \otimes e_8 + \frac{4}{169}\sqrt{590}e^1 \otimes e_4$	{12578, 1278, 1356, 136, 24568, 2468, 3457, 347}
831:1	$0, 0, 0, 0, 0, \frac{4}{643}\sqrt{2010}e^{12}, \frac{1}{643}\sqrt{142710}e^{13}, \frac{2}{643}\sqrt{8710}e^{16}$	$(-\frac{148}{643}, \frac{117}{643}, \frac{156}{643}, \frac{343}{643}, \frac{69}{643}, -\frac{31}{643}, \frac{8}{643}, -\frac{179}{643})$ $+\frac{10}{643}\sqrt{2010}e^3 \otimes e_8 + \frac{2}{643}\sqrt{45895}e^4 \otimes e_7$	{123456, 12346, 1578, 178, 2357, 237, 4568, 468}
831:1	$0, 0, 0, 0, 0, \frac{1}{523}\sqrt{2298}e^{12}, \frac{5}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{55918}e^{16}$	$(-\frac{79}{523}, \frac{69}{523}, \frac{220}{523}, \frac{294}{523}, -\frac{163}{523}, -\frac{10}{523}, \frac{141}{523}, -\frac{89}{523})$ $+\frac{1}{523}\sqrt{175414}e^3 \otimes e_5 + \frac{2}{523}\sqrt{43662}e^4 \otimes e_8$	{12346, 124567, 138, 1578, 2347, 245, 3678, 568}
831:1	$0, 0, 0, 0, 0, \frac{8}{337}\sqrt{406}e^{12}, \frac{4}{337}\sqrt{551}e^{13}, \frac{4}{337}\sqrt{1073}e^{16}$	$(\frac{36}{337}, \frac{35}{337}, -\frac{80}{337}, -\frac{81}{337}, \frac{72}{337}, \frac{71}{337}, -\frac{44}{337}, \frac{107}{337})$ $+\frac{2}{337}\sqrt{2262}e^5 \otimes e_7 + \frac{2}{337}\sqrt{8758}e^1 \otimes e_3 + \frac{4}{337}\sqrt{1653}e^2 \otimes e_4$	{1258, 1456, 23568, 345}
831:1	$0, 0, 0, 0, 0, \frac{6}{323}\sqrt{497}e^{12}, \frac{2}{323}\sqrt{781}e^{13}, \frac{4}{323}\sqrt{1846}e^{16}$	$(\frac{22}{323}, -\frac{23}{323}, \frac{29}{323}, \frac{163}{323}, -\frac{120}{323}, -\frac{1}{323}, \frac{3}{323}, \frac{21}{323})$ $+\frac{2}{323}\sqrt{8733}e^4 \otimes e_8 + \frac{8}{323}\sqrt{710}e^1 \otimes e_5$	{1238, 1278, 1346, 1467, 235678, 2568, 3457, 45}
831:1	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{174}e^{12}, \frac{8}{161}\sqrt{58}e^{13}, \frac{4}{161}\sqrt{203}e^{16}$	$(\frac{19}{161}, -\frac{39}{161}, -\frac{18}{161}, \frac{59}{161}, \frac{57}{161}, -\frac{20}{161}, \frac{1}{161}, -\frac{1}{161})$ $+\frac{2}{161}\sqrt{1247}e^5 \otimes e_8 + \frac{2}{161}\sqrt{1711}e^1 \otimes e_2 + \frac{6}{161}\sqrt{145}e^4 \otimes e_7$	{1348, 178, 2357, 245}
831:1	$0, 0, 0, 0, 0, \frac{10}{313}\sqrt{222}e^{12}, \frac{4}{313}\sqrt{1443}e^{13}, \frac{4}{313}\sqrt{111}e^{16}$	$(-\frac{58}{313}, \frac{152}{313}, -\frac{12}{313}, \frac{151}{313}, -\frac{71}{313}, \frac{94}{313}, -\frac{70}{313}, \frac{36}{313})$ $+\frac{18}{313}\sqrt{222}e^2 \otimes e_7 + \frac{222}{313}e^4 \otimes e_5$	{1234, 1235, 14678, 15678, 246, 256, 3478, 3578}
831:1	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{155}e^{12}, \frac{1}{35}\sqrt{310}e^{13}, \frac{2}{35}\sqrt{155}e^{16}$	$(\frac{2}{7}, -\frac{3}{35}, \frac{2}{35}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{12}{35}, \frac{17}{35})$ $+\frac{2}{35}\sqrt{434}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 1356, 136, 1567, 167, 2345678, 234678, 24568, 2468, 3457, 347, 4, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:1	$0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1846}e^{12}, \frac{2}{323}\sqrt{781}e^{13}, \frac{6}{323}\sqrt{497}e^{16}$	$(\frac{22}{323}, \frac{59}{323}, \frac{29}{323}, -\frac{120}{323}, -\frac{83}{323}, \frac{81}{323}, \frac{3}{19}, \frac{103}{323})$ $+ \frac{2}{323}\sqrt{8733}e^2 \otimes e_5 + \frac{8}{323}\sqrt{710}e^1 \otimes e_4$	{1238, 1278, 1356, 1567, 234678, 2468, 3457, 45}
831:1	$0, 0, 0, 0, 0, \frac{5}{101}\sqrt{222}e^{12}, \frac{2}{101}\sqrt{1443}e^{13}, \frac{2}{101}\sqrt{111}e^{16}$	$(-\frac{29}{101}, \frac{76}{101}, -\frac{6}{101}, \frac{20}{101}, \frac{20}{101}, \frac{47}{101}, -\frac{35}{101}, \frac{18}{101})$ $+ \frac{9}{101}\sqrt{222}e^2 \otimes e_7$	{123, 1234, 12345, 145678, 14678, 1678, 2456, 246, 26, 34578, 3478, 378}
831:1	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2337}e^{12}, \frac{2}{199}\sqrt{2091}e^{13}, \frac{12}{199}\sqrt{246}e^{16}$	$(-\frac{34}{199}, \frac{21}{199}, \frac{57}{199}, 1, \frac{40}{199}, -\frac{13}{199}, \frac{23}{199}, -\frac{47}{199})$ $+ \frac{6}{199}\sqrt{2173}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 23568, 2368, 25678, 2678, 34, 345, 457, 47}
831:1	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12}, \frac{1}{2}e^{13}, \frac{1}{4}\sqrt{2}e^{16}$	$(\frac{1}{8}, 0, -\frac{1}{8}, \frac{1}{2}, -\frac{3}{8}, \frac{1}{8}, 0, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{2}e^1 \otimes e_5 + \frac{1}{4}\sqrt{6}e^4 \otimes e_7$	{12348, 1278, 1346, 167, 235678, 24568, 357, 45}
831:1	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{4}\sqrt{15}e^{13}, \frac{1}{8}\sqrt{10}e^{16}$	$(-\frac{1}{16}, \frac{1}{4}, \frac{5}{8}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{9}{16}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^3 \otimes e_4$	{123568, 12368, 1245678, 124678, 13, 135, 1457, 147, 23578, 2378, 2458, 248, 3567, 367, 456, 46}
831:1	$0, 0, 0, 0, 0, \frac{6}{269}\sqrt{445}e^{12}, \frac{10}{269}\sqrt{89}e^{13}, \frac{4}{269}\sqrt{890}e^{16}$	$(-\frac{74}{269}, \frac{115}{269}, \frac{11}{269}, \frac{145}{269}, \frac{36}{269}, \frac{41}{269}, -\frac{63}{269}, -\frac{33}{269})$ $+ \frac{2}{269}\sqrt{9701}e^4 \otimes e_8 + \frac{4}{269}\sqrt{2759}e^2 \otimes e_7$	{12358, 1238, 14567, 1467, 2568, 268, 3457, 347}
831:1	$0, 0, 0, 0, 0, \frac{4}{313}\sqrt{111}e^{12}, \frac{4}{313}\sqrt{1443}e^{13}, \frac{10}{313}\sqrt{222}e^{16}$	$(-\frac{58}{313}, \frac{44}{313}, \frac{150}{313}, \frac{151}{313}, -\frac{71}{313}, -\frac{14}{313}, \frac{92}{313}, -\frac{72}{313})$ $+ \frac{18}{313}\sqrt{222}e^3 \otimes e_8 + \frac{222}{313}e^4 \otimes e_5$	{12346, 12356, 1478, 1578, 2347, 2357, 468, 568}
831:1	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{174}e^{12}, \frac{8}{161}\sqrt{58}e^{13}, \frac{4}{161}\sqrt{203}e^{16}$	$(\frac{19}{161}, -\frac{39}{161}, \frac{27}{161}, -\frac{31}{161}, \frac{57}{161}, -\frac{20}{161}, \frac{2}{7}, -\frac{1}{161})$ $+ \frac{2}{161}\sqrt{1247}e^5 \otimes e_8 + \frac{2}{161}\sqrt{1711}e^1 \otimes e_2 + \frac{6}{161}\sqrt{145}e^3 \otimes e_4$	{138, 1478, 2357, 245}
831:1	$0, 0, 0, 0, 0, \frac{4}{269}\sqrt{890}e^{12}, \frac{10}{269}\sqrt{89}e^{13}, \frac{6}{269}\sqrt{445}e^{16}$	$(-\frac{74}{269}, \frac{105}{269}, \frac{135}{269}, -\frac{73}{269}, \frac{36}{269}, \frac{31}{269}, \frac{61}{269}, -\frac{43}{269})$ $+ \frac{2}{269}\sqrt{9701}e^2 \otimes e_4 + \frac{4}{269}\sqrt{2759}e^3 \otimes e_8$	{12578, 1278, 13456, 1346, 2568, 268, 3457, 347}
831:1	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{12}, \frac{10}{41}e^{13}, \frac{4}{41}\sqrt{10}e^{16}$	$(-\frac{2}{41}, \frac{7}{41}, -\frac{1}{41}, -\frac{12}{41}, \frac{13}{41}, \frac{5}{41}, -\frac{3}{41}, \frac{3}{41})$ $+ \frac{4}{41}\sqrt{15}e^2 \otimes e_7 + \frac{6}{41}\sqrt{5}e^5 \otimes e_8 + \frac{8}{41}\sqrt{5}e^1 \otimes e_4$	{1238, 1567, 2468, 3457}
831:1	$0, 0, 0, 0, 0, \frac{3}{169}\sqrt{590}e^{12}, \frac{2}{169}\sqrt{1003}e^{13}, \frac{2}{169}\sqrt{649}e^{16}$	$(-\frac{1}{169}, \frac{44}{169}, -\frac{14}{169}, -\frac{60}{169}, \frac{20}{169}, \frac{43}{169}, -\frac{15}{169}, \frac{42}{169})$ $+ \frac{1}{169}\sqrt{8142}e^2 \otimes e_7 + \frac{4}{169}\sqrt{590}e^1 \otimes e_4$	{12358, 1238, 1567, 167, 24568, 2468, 3457, 347}
831:1	$0, 0, 0, 0, 0, \frac{1}{541}\sqrt{87474}e^{12}, \frac{4}{541}\sqrt{239}e^{13}, \frac{2}{541}\sqrt{13623}e^{16}$	$(\frac{45}{541}, \frac{90}{541}, -\frac{194}{541}, \frac{66}{541}, \frac{66}{541}, \frac{135}{541}, -\frac{149}{541}, \frac{180}{541})$ $+ \frac{2}{541}\sqrt{32026}e^1 \otimes e_3 + \frac{3}{541}\sqrt{10994}e^2 \otimes e_7$	{12458, 1248, 128, 234568, 23468, 2368}
831:1	$0, 0, 0, 0, 0, \frac{2}{649}\sqrt{1041}e^{12}, \frac{2}{649}\sqrt{10063}e^{13}, \frac{1}{649}\sqrt{136718}e^{16}$	$(\frac{116}{649}, -\frac{21}{59}, \frac{18}{649}, \frac{348}{649}, \frac{76}{649}, -\frac{115}{649}, \frac{134}{649}, \frac{1}{649})$ $+ \frac{1}{649}\sqrt{208894}e^1 \otimes e_2 + \frac{4}{649}\sqrt{11798}e^4 \otimes e_8$	{13456, 1346, 14567, 1467, 235678, 23678, 2568, 268}
831:1	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{1}{41}\sqrt{462}e^{13}, \frac{2}{41}\sqrt{42}e^{16}$	$(-\frac{14}{41}, \frac{19}{41}, \frac{12}{41}, \frac{5}{41}, \frac{5}{41}, -\frac{2}{41}, -\frac{9}{41})$ $+ \frac{6}{41}\sqrt{21}e^2 \otimes e_7 + \frac{6}{41}\sqrt{21}e^3 \otimes e_8$	{24568, 2468, 268, 3457, 347, 37}
831:1	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{2486}e^{12}, \frac{1}{441}\sqrt{36386}e^{13}, \frac{2}{441}\sqrt{113}e^{16}$	$(\frac{16}{147}, -\frac{65}{441}, \frac{5}{441}, -\frac{12}{49}, \frac{166}{441}, -\frac{17}{441}, \frac{53}{441}, \frac{31}{441})$ $+ \frac{1}{441}\sqrt{30962}e^3 \otimes e_4 + \frac{1}{441}\sqrt{30962}e^5 \otimes e_7 + \frac{2}{441}\sqrt{7797}e^1 \otimes e_2$	{1358, 1478, 237, 245}
831:1	$0, 0, 0, 0, 0, \frac{4}{431}\sqrt{345}e^{12}, \frac{14}{431}\sqrt{138}e^{13}, \frac{4}{431}\sqrt{1518}e^{16}$	$(\frac{34}{431}, -\frac{104}{431}, \frac{102}{431}, -\frac{31}{431}, \frac{107}{431}, -\frac{70}{431}, \frac{136}{431}, -\frac{36}{431})$ $+ \frac{138}{431}e^5 \otimes e_4 + \frac{18}{431}\sqrt{138}e^1 \otimes e_2 + \frac{18}{431}\sqrt{138}e^3 \otimes e_8$	{1478, 1578, 2347, 2357}
831:1	$0, 0, 0, 0, 0, \frac{4}{337}\sqrt{1073}e^{12}, \frac{4}{337}\sqrt{551}e^{13}, \frac{8}{337}\sqrt{406}e^{16}$	$(\frac{36}{337}, -\frac{41}{337}, -\frac{80}{337}, \frac{72}{337}, \frac{147}{337}, -\frac{5}{337}, -\frac{44}{337}, \frac{31}{337})$ $+ \frac{2}{337}\sqrt{2262}e^4 \otimes e_7 + \frac{2}{337}\sqrt{8758}e^1 \otimes e_3 + \frac{4}{337}\sqrt{1653}e^5 \otimes e_8$	{1248, 1456, 23468, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:1	$0, 0, 0, 0, 0, \frac{2}{643}\sqrt{8710}e^{12}, \frac{1}{643}\sqrt{142710}e^{13}, \frac{4}{643}\sqrt{2010}e^{16}$	$(-\frac{148}{643}, \frac{317}{643}, \frac{130}{643}, -\frac{205}{643}, \frac{69}{643}, \frac{169}{643}, -\frac{18}{643}, \frac{21}{643})$ $+\frac{10}{643}\sqrt{2010}e^2 \otimes e_7 + \frac{2}{643}\sqrt{45895}e^3 \otimes e_4$	{123, 1235, 145678, 14678, 2456, 246, 3578, 378}
831:1	$0, 0, 0, 0, 0, \frac{1}{523}\sqrt{55918}e^{12}, \frac{5}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{2298}e^{16}$	$(-\frac{79}{523}, \frac{221}{523}, -\frac{9}{523}, \frac{295}{523}, -\frac{162}{523}, \frac{142}{523}, -\frac{88}{523}, \frac{63}{523})$ $+\frac{1}{523}\sqrt{175414}e^4 \otimes e_7 + \frac{2}{523}\sqrt{43662}e^2 \otimes e_5$	{1234, 127, 134568, 15678, 2367, 246, 3578, 458}
831:1	$0, 0, 0, 0, 0, \frac{12}{67}\sqrt{21}e^{12}, \frac{28}{67}\sqrt{2}e^{13}, \frac{12}{67}\sqrt{21}e^{16}$	$(\frac{27}{67}, -\frac{15}{67}, -\frac{29}{67}, \frac{12}{67}, \frac{12}{67}, \frac{12}{67}, -\frac{2}{67}, \frac{39}{67})$ $+\frac{4}{67}\sqrt{385}e^1 \otimes e_3$	{12458, 1248, 128, 1456, 146, 16, 234568, 23468, 2368, 3, 34, 345}
831:1	$0, 0, 0, 0, 0, \frac{1}{655}\sqrt{123802}e^{12}, \frac{2}{655}\sqrt{14579}e^{13}, \frac{4}{655}\sqrt{5258}e^{16}$	$(\frac{93}{655}, \frac{59}{655}, -\frac{146}{655}, -\frac{36}{131}, \frac{69}{655}, \frac{152}{655}, -\frac{53}{655}, \frac{49}{131})$ $+\frac{1}{655}\sqrt{119022}e^2 \otimes e_4 + \frac{1}{655}\sqrt{161086}e^1 \otimes e_3$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}
831:2	$0, 0, 0, 0, 0, \frac{1}{205}\sqrt{8642}e^{12}, \frac{1}{205}\sqrt{8642}e^{13}, \frac{3}{205}\sqrt{298}e^{26}$	$(\frac{58}{205}, -\frac{11}{205}, -\frac{91}{205}, \frac{116}{205}, \frac{27}{205}, \frac{47}{205}, -\frac{33}{205}, \frac{36}{205})$ $+\frac{1}{205}\sqrt{26522}e^1 \otimes e_3 + \frac{1}{205}\sqrt{26522}e^4 \otimes e_7$	{12578, 1278, 15678, 1678, 23567, 2367, 357, 37}
831:2	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1529}e^{12}, \frac{2}{223}\sqrt{10842}e^{13}, \frac{2}{223}\sqrt{2085}e^{26}$	$(-\frac{22}{223}, \frac{41}{223}, -\frac{33}{223}, 1, \frac{45}{223}, \frac{19}{223}, -\frac{55}{223}, \frac{60}{223})$ $+\frac{2}{223}\sqrt{24742}e^4 \otimes e_7$	{123456, 12346, 12567, 1267, 134, 1345, 157, 17, 23578, 2378, 2458, 248, 35678, 3678, 4568, 468}
831:2	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{2911}e^{12}, \frac{2}{347}\sqrt{7242}e^{13}, \frac{10}{347}\sqrt{213}e^{26}$	$(-\frac{98}{347}, \frac{109}{347}, \frac{65}{347}, -\frac{77}{347}, \frac{45}{347}, \frac{11}{347}, -\frac{33}{347}, \frac{120}{347})$ $+\frac{12}{347}\sqrt{355}e^2 \otimes e_7 + \frac{2}{347}\sqrt{8662}e^3 \otimes e_4$	{12358, 1238, 145678, 14678, 2456, 246, 357, 37}
831:2	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{553}e^{12}, \frac{3}{149}\sqrt{790}e^{13}, \frac{2}{149}\sqrt{237}e^{26}$	$(\frac{28}{149}, -\frac{2}{149}, \frac{35}{149}, -\frac{51}{149}, -\frac{44}{149}, \frac{26}{149}, \frac{63}{149}, \frac{24}{149})$ $+\frac{1}{149}\sqrt{10902}e^1 \otimes e_4 + \frac{2}{149}\sqrt{2449}e^3 \otimes e_5$	{1238, 12578, 1368, 15678, 23467, 2456, 347, 45}
831:2	$0, 0, 0, 0, 0, \frac{1}{209}\sqrt{7242}e^{12}, \frac{1}{209}\sqrt{2911}e^{13}, \frac{5}{209}\sqrt{213}e^{26}$	$(\frac{12}{209}, \frac{24}{209}, -\frac{59}{209}, -\frac{13}{209}, \frac{58}{209}, \frac{36}{209}, -\frac{47}{209}, \frac{60}{209})$ $+\frac{1}{209}\sqrt{8662}e^1 \otimes e_3 + \frac{1}{209}\sqrt{355}e^2 \otimes e_7 + \frac{71}{209}e^5 \otimes e_4$	{14678, 15678, 347, 357}
831:2	$0, 0, 0, 0, 0, \frac{4}{1403}\sqrt{24130}e^{12}, \frac{4}{1403}\sqrt{381}e^{13}, \frac{12}{1403}\sqrt{1651}e^{26}$	$(\frac{199}{1403}, \frac{88}{1403}, -\frac{309}{1403}, -\frac{420}{1403}, \frac{398}{1403}, \frac{287}{1403}, -\frac{110}{1403}, \frac{375}{1403})$ $+\frac{2}{1403}\sqrt{142494}e^2 \otimes e_4 + \frac{2}{1403}\sqrt{65278}e^5 \otimes e_7 + \frac{4}{1403}\sqrt{28194}e^1 \otimes e_3$	{1278, 14678, 2367, 347}
831:2	$0, 0, 0, 0, 0, \frac{5}{93}\sqrt{42}e^{12}, \frac{5}{93}\sqrt{42}e^{13}, \frac{1}{93}\sqrt{2170}e^{26}$	$(-\frac{6}{31}, \frac{14}{93}, -\frac{1}{31}, \frac{15}{31}, \frac{4}{31}, -\frac{4}{93}, -\frac{7}{31}, \frac{10}{93})$ $+\frac{1}{93}\sqrt{2310}e^4 \otimes e_8 + \frac{4}{93}\sqrt{210}e^2 \otimes e_7$	{12358, 1238, 15678, 1678, 2456, 246, 3457, 347}
831:2	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{107}e^{12}, \frac{4}{231}\sqrt{321}e^{13}, \frac{2}{231}\sqrt{8239}e^{26}$	$(-\frac{8}{77}, \frac{73}{231}, \frac{19}{77}, -\frac{47}{77}, \frac{15}{77}, \frac{7}{33}, \frac{1}{7}, \frac{122}{231})$ $+\frac{2}{231}\sqrt{19902}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 2356, 236, 2567, 267, 34, 345, 457, 47}
831:2	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{901}e^{12}, \frac{12}{199}\sqrt{106}e^{13}, \frac{2}{199}\sqrt{371}e^{26}$	$(-\frac{34}{199}, \frac{31}{199}, \frac{38}{199}, \frac{110}{199}, -\frac{68}{199}, -\frac{3}{199}, \frac{4}{199}, \frac{28}{199})$ $+\frac{2}{199}\sqrt{4717}e^3 \otimes e_5 + \frac{2}{199}\sqrt{4717}e^4 \otimes e_7$	{12346, 12567, 134, 157, 2378, 2458, 3678, 4568}
831:2	$0, 0, 0, 0, 0, \frac{9}{677}\sqrt{170}e^{12}, \frac{3}{677}\sqrt{13566}e^{13}, \frac{3}{677}\sqrt{12954}e^{26}$	$(-\frac{30}{677}, -\frac{24}{677}, \frac{251}{677}, \frac{381}{677}, -\frac{208}{677}, -\frac{54}{677}, \frac{221}{677}, -\frac{78}{677})$ $+\frac{12}{677}\sqrt{1887}e^3 \otimes e_5 + \frac{3}{677}\sqrt{29886}e^4 \otimes e_8$	{12346, 124567, 134, 1457, 2378, 258, 3678, 568}
831:2	$0, 0, 0, 0, 0, \frac{40}{1419}\sqrt{38}e^{12}, \frac{20}{1419}\sqrt{589}e^{13}, \frac{4}{1419}\sqrt{17005}e^{26}$	$(-\frac{83}{473}, \frac{112}{1419}, \frac{355}{1419}, -\frac{268}{1419}, \frac{162}{473}, -\frac{137}{1419}, \frac{106}{1419}, -\frac{25}{1419})$ $+\frac{10}{1419}\sqrt{2622}e^5 \otimes e_7 + \frac{2}{1419}\sqrt{77710}e^2 \otimes e_4 + \frac{4}{1419}\sqrt{24890}e^3 \otimes e_8$	{1278, 14678, 2367, 347}
831:2	$0, 0, 0, 0, 0, \frac{20}{281}\sqrt{43}e^{12}, \frac{4}{281}\sqrt{645}e^{13}, \frac{4}{281}\sqrt{1290}e^{26}$	$(-\frac{41}{281}, \frac{70}{281}, \frac{110}{281}, -\frac{102}{281}, -\frac{62}{281}, \frac{29}{281}, \frac{69}{281}, \frac{99}{281})$ $+\frac{2}{281}\sqrt{12126}e^2 \otimes e_4 + \frac{2}{281}\sqrt{8686}e^3 \otimes e_5$	{1238, 12578, 13468, 145678, 2367, 256, 347, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:2	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{129}e^{12}, \frac{2}{55}\sqrt{129}e^{13}, \frac{4}{55}\sqrt{43}e^{26}$	$(\frac{6}{55}, \frac{1}{11}, \frac{9}{55}, 1, -\frac{31}{55}, \frac{1}{5}, \frac{3}{11}, \frac{16}{55})$ $+\frac{86}{55}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 13468, 13568, 14678, 15678, 23467, 23567, 246, 256, 347, 357, 4, 5}
831:2	$0, 0, 0, 0, 0, \frac{5}{253}\sqrt{246}e^{12}, \frac{5}{253}\sqrt{246}e^{13}, \frac{1}{253}\sqrt{8610}e^{26}$	$(\frac{50}{253}, -\frac{34}{253}, -\frac{73}{253}, \frac{100}{253}, \frac{105}{253}, \frac{16}{253}, -\frac{1}{11}, -\frac{18}{253})$ $+\frac{1}{253}\sqrt{19434}e^5 \otimes e_8 + \frac{2}{253}\sqrt{4551}e^1 \otimes e_3 + \frac{2}{253}\sqrt{4551}e^4 \otimes e_7$	{1278, 1678, 23567, 357}
831:2	$0, 0, 0, 0, 0, \frac{1}{751}\sqrt{172898}e^{12}, \frac{2}{751}\sqrt{9889}e^{13}, \frac{4}{751}\sqrt{6061}e^{26}$	$(\frac{171}{751}, \frac{33}{751}, -\frac{148}{751}, -\frac{286}{751}, \frac{85}{751}, \frac{204}{751}, \frac{23}{751}, \frac{237}{751})$ $+\frac{1}{751}\sqrt{188210}e^1 \otimes e_3 + \frac{1}{751}\sqrt{236698}e^2 \otimes e_4$	{1258, 128, 14568, 1468, 2356, 236, 34, 345}
831:2	$0, 0, 0, 0, 0, \frac{3}{58}\sqrt{203}e^{12}, \frac{3}{58}\sqrt{203}e^{13}, \frac{3}{29}\sqrt{14}e^{26}$	$(\frac{1}{2}, -\frac{13}{116}, -\frac{5}{116}, -\frac{17}{29}, \frac{6}{29}, \frac{45}{116}, \frac{53}{116}, \frac{8}{29})$ $+\frac{3}{29}\sqrt{161}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 13568, 1368, 15678, 1678, 234567, 23467, 2456, 246, 3457, 347, 4, 45}
831:2	$0, 0, 0, 0, 0, \frac{4}{129}\sqrt{39}e^{12}, \frac{26}{129}\sqrt{3}e^{13}, \frac{2}{129}\sqrt{559}e^{26}$	$(-\frac{12}{43}, \frac{20}{129}, \frac{10}{43}, \frac{5}{43}, \frac{5}{43}, -\frac{16}{129}, -\frac{2}{43}, \frac{4}{129})$ $+\frac{2}{43}\sqrt{78}e^3 \otimes e_8 + \frac{4}{129}\sqrt{195}e^2 \otimes e_7$	{145678, 14678, 1678, 3457, 347, 37}
831:2	$0, 0, 0, 0, 0, \frac{1}{30}\sqrt{345}e^{12}, \frac{1}{30}\sqrt{345}e^{13}, \frac{1}{15}\sqrt{115}e^{26}$	$(-\frac{3}{10}, \frac{5}{12}, -\frac{1}{20}, \frac{1}{5}, \frac{1}{5}, \frac{7}{60}, -\frac{7}{20}, \frac{8}{15})$ $+\frac{2}{15}\sqrt{69}e^2 \otimes e_7$	{123458, 12348, 1238, 145678, 14678, 1678, 2456, 246, 26, 3457, 347, 37}
831:2	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{39}e^{12}, \frac{13}{71}\sqrt{3}e^{13}, \frac{1}{71}\sqrt{559}e^{26}$	$(-\frac{18}{71}, \frac{10}{71}, \frac{15}{71}, \frac{1}{71}, \frac{14}{71}, -\frac{8}{71}, -\frac{3}{71}, \frac{2}{71})$ $+\frac{13}{71}e^5 \otimes e_4 + \frac{2}{71}\sqrt{195}e^2 \otimes e_7 + \frac{3}{71}\sqrt{78}e^3 \otimes e_8$	{14678, 15678, 347, 357}
831:2	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1529}e^{12}, \frac{2}{223}\sqrt{10842}e^{13}, \frac{2}{223}\sqrt{2085}e^{26}$	$(-\frac{22}{223}, \frac{41}{223}, \frac{145}{223}, -\frac{133}{223}, \frac{45}{223}, \frac{19}{223}, \frac{123}{223}, \frac{60}{223})$ $+\frac{2}{223}\sqrt{24742}e^3 \otimes e_4$	{12356, 1236, 124567, 12467, 13, 135, 1457, 147, 23578, 2378, 2458, 248, 35678, 3678, 4568, 468}
831:2	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{345}e^{13}, \frac{4}{83}\sqrt{115}e^{26}$	$(-\frac{18}{83}, \frac{25}{83}, -\frac{3}{83}, \frac{35}{83}, -\frac{11}{83}, \frac{7}{83}, -\frac{21}{83}, \frac{32}{83})$ $+\frac{46}{83}e^4 \otimes e_5 + \frac{8}{83}\sqrt{69}e^2 \otimes e_7$	{12348, 12358, 14678, 15678, 246, 256, 347, 357}
831:2	$0, 0, 0, 0, 0, \frac{5}{857}\sqrt{1462}e^{12}, \frac{5}{857}\sqrt{3182}e^{13}, \frac{1}{857}\sqrt{94170}e^{26}$	$(-\frac{182}{857}, \frac{136}{857}, \frac{103}{857}, -\frac{112}{857}, \frac{305}{857}, -\frac{46}{857}, -\frac{79}{857}, \frac{90}{857})$ $+\frac{1}{857}\sqrt{93310}e^5 \otimes e_8 + \frac{20}{857}\sqrt{215}e^3 \otimes e_4 + \frac{8}{857}\sqrt{2365}e^2 \otimes e_7$	{1238, 14678, 2456, 357}
831:2	$0, 0, 0, 0, 0, \frac{26}{697}\sqrt{46}e^{12}, \frac{1}{697}\sqrt{128570}e^{13}, \frac{46}{697}\sqrt{39}e^{26}$	$(\frac{104}{697}, -\frac{6}{41}, \frac{199}{697}, -\frac{195}{697}, \frac{88}{697}, \frac{2}{697}, \frac{303}{697}, -\frac{100}{697})$ $+\frac{1}{697}\sqrt{169234}e^1 \otimes e_4 + \frac{2}{697}\sqrt{48737}e^3 \otimes e_8$	{12578, 1278, 15678, 1678, 234567, 23467, 3457, 347}
831:2	$0, 0, 0, 0, 0, \frac{3}{14}\sqrt{3}e^{12}, \frac{3}{14}\sqrt{3}e^{13}, \frac{3}{49}\sqrt{30}e^{26}$	$(\frac{1}{98}, \frac{31}{196}, -\frac{25}{196}, -\frac{13}{49}, \frac{6}{49}, \frac{33}{196}, -\frac{23}{196}, \frac{16}{49})$ $+\frac{18}{49}\sqrt{2}e^2 \otimes e_7 + \frac{3}{49}\sqrt{57}e^1 \otimes e_4$	{12358, 1238, 15678, 1678, 2456, 246, 3457, 347}
831:2	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{9889}e^{12}, \frac{1}{751}\sqrt{172898}e^{13}, \frac{4}{751}\sqrt{6061}e^{26}$	$(-\frac{124}{751}, -\frac{5}{751}, \frac{185}{751}, \frac{380}{751}, \frac{85}{751}, -\frac{129}{751}, \frac{61}{751}, -\frac{134}{751})$ $+\frac{1}{751}\sqrt{188210}e^4 \otimes e_7 + \frac{1}{751}\sqrt{236698}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 2458, 248, 4568, 468}
831:2	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{7242}e^{12}, \frac{2}{347}\sqrt{2911}e^{13}, \frac{10}{347}\sqrt{213}e^{26}$	$(\frac{24}{347}, \frac{48}{347}, -\frac{118}{347}, \frac{45}{347}, \frac{45}{347}, \frac{72}{347}, -\frac{94}{347}, \frac{120}{347})$ $+\frac{12}{347}\sqrt{355}e^2 \otimes e_7 + \frac{2}{347}\sqrt{8662}e^1 \otimes e_3$	{145678, 14678, 1678, 3457, 347, 37}
831:2	$0, 0, 0, 0, 0, \frac{5}{857}\sqrt{3182}e^{12}, \frac{5}{857}\sqrt{1462}e^{13}, \frac{1}{857}\sqrt{94170}e^{26}$	$(\frac{18}{857}, \frac{36}{857}, -\frac{197}{857}, \frac{88}{857}, \frac{305}{857}, \frac{54}{857}, -\frac{179}{857}, \frac{90}{857})$ $+\frac{1}{857}\sqrt{93310}e^5 \otimes e_8 + \frac{20}{857}\sqrt{215}e^1 \otimes e_3 + \frac{8}{857}\sqrt{2365}e^2 \otimes e_7$	{14678, 1678, 3457, 357}
831:2	$0, 0, 0, 0, 0, \frac{9}{677}\sqrt{170}e^{12}, \frac{3}{677}\sqrt{13566}e^{13}, \frac{3}{677}\sqrt{12954}e^{26}$	$(-\frac{30}{677}, -\frac{24}{677}, -\frac{45}{677}, \frac{384}{677}, \frac{381}{677}, -\frac{54}{677}, -\frac{75}{677}, -\frac{78}{677})$ $+\frac{12}{677}\sqrt{1887}e^4 \otimes e_7 + \frac{3}{677}\sqrt{29886}e^5 \otimes e_8$	{123456, 12567, 1345, 157, 2378, 248, 3678, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:2	$0, 0, 0, 0, 0, \frac{60}{227}e^{12}, \frac{60}{227}e^{13}, \frac{12}{227}\sqrt{30}e^{26}$	$(-\frac{2}{227}, \frac{16}{227}, -\frac{22}{227}, -\frac{42}{227}, \frac{70}{227}, \frac{14}{227}, -\frac{24}{227}, \frac{30}{227})$ $+\frac{20}{227}\sqrt{13}e^1 \otimes e_4 + \frac{4}{227}\sqrt{235}e^5 \otimes e_8 + \frac{8}{227}\sqrt{115}e^2 \otimes e_7$	{1238, 1678, 2456, 3457}
831:2	$0, 0, 0, 0, 0, \frac{3}{677}\sqrt{13566}e^{12}, \frac{9}{677}\sqrt{170}e^{13}, \frac{3}{677}\sqrt{12954}e^{26}$	$(\frac{266}{677}, -\frac{172}{677}, -\frac{193}{677}, \frac{381}{677}, \frac{88}{677}, \frac{94}{677}, \frac{73}{677}, -\frac{78}{677})$ $+\frac{12}{677}\sqrt{1887}e^1 \otimes e_3 + \frac{3}{677}\sqrt{29886}e^4 \otimes e_8$	{1258, 128, 1568, 168, 23456, 2346, 34, 345}
831:2	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{321}e^{12}, \frac{6}{77}\sqrt{107}e^{13}, \frac{2}{231}\sqrt{8239}e^{26}$	$(-\frac{8}{77}, -\frac{20}{231}, \frac{50}{77}, \frac{15}{77}, \frac{15}{77}, -\frac{4}{21}, \frac{6}{11}, -\frac{64}{231})$ $+\frac{2}{231}\sqrt{19902}e^3 \otimes e_8$	{123456, 12346, 1236, 13, 134, 1345, 2458, 248, 28, 4568, 468, 68}
831:2	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{553}e^{12}, \frac{3}{149}\sqrt{790}e^{13}, \frac{2}{149}\sqrt{237}e^{26}$	$(\frac{28}{149}, -\frac{2}{149}, -\frac{27}{149}, \frac{80}{149}, -\frac{51}{149}, \frac{26}{149}, \frac{1}{149}, \frac{24}{149})$ $+\frac{1}{149}\sqrt{10902}e^1 \otimes e_5 + \frac{2}{149}\sqrt{2449}e^4 \otimes e_7$	{12348, 1278, 13468, 1678, 23567, 2456, 357, 45}
831:2	$0, 0, 0, 0, 0, \frac{1}{697}\sqrt{128570}e^{12}, \frac{26}{697}\sqrt{46}e^{13}, \frac{46}{697}\sqrt{39}e^{26}$	$(\frac{104}{697}, \frac{61}{697}, \frac{36}{697}, -\frac{195}{697}, -\frac{14}{41}, \frac{165}{697}, \frac{140}{697}, \frac{226}{697})$ $+\frac{1}{697}\sqrt{169234}e^1 \otimes e_4 + \frac{2}{697}\sqrt{48737}e^2 \otimes e_5$	{1238, 1278, 13568, 15678, 23467, 246, 3457, 45}
831:2	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{10842}e^{12}, \frac{2}{223}\sqrt{1529}e^{13}, \frac{2}{223}\sqrt{2085}e^{26}$	$(\frac{156}{223}, -\frac{48}{223}, \frac{122}{223}, \frac{45}{223}, \frac{45}{223}, \frac{108}{223}, \frac{34}{223}, \frac{60}{223})$ $+\frac{2}{223}\sqrt{24742}e^1 \otimes e_3$	{12458, 1248, 128, 14568, 1468, 168, 23456, 2346, 236, 3, 34, 345}
831:2	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{10842}e^{12}, \frac{1}{181}\sqrt{1529}e^{13}, \frac{1}{181}\sqrt{2085}e^{26}$	$(\frac{78}{181}, -\frac{24}{181}, -\frac{61}{181}, \frac{92}{181}, -\frac{47}{181}, \frac{54}{181}, \frac{17}{181}, \frac{30}{181})$ $+\frac{139}{181}e^4 \otimes e_5 + \frac{1}{181}\sqrt{24742}e^1 \otimes e_3$	{1248, 1258, 1468, 1568, 2346, 2356, 34, 35}
831:2	$0, 0, 0, 0, 0, \frac{56}{1849}\sqrt{155}e^{12}, \frac{70}{1849}\sqrt{22}e^{13}, \frac{28}{1849}\sqrt{565}e^{26}$	$(\frac{273}{1849}, -\frac{63}{1849}, -\frac{217}{1849}, -\frac{553}{1849}, \frac{637}{1849}, \frac{210}{1849}, \frac{56}{1849}, \frac{147}{1849})$ $+\frac{14}{1849}\sqrt{2355}e^5 \otimes e_8 + \frac{14}{1849}\sqrt{2465}e^1 \otimes e_3 + \frac{14}{1849}\sqrt{3595}e^2 \otimes e_4$	{128, 1468, 2356, 345}
831:2	$0, 0, 0, 0, 0, \frac{6}{251}\sqrt{331}e^{12}, \frac{4}{753}\sqrt{993}e^{13}, \frac{1}{753}\sqrt{166162}e^{26}$	$(-\frac{16}{251}, \frac{49}{753}, \frac{38}{251}, \frac{127}{251}, -\frac{94}{251}, \frac{1}{753}, \frac{22}{251}, \frac{50}{753})$ $+\frac{1}{753}\sqrt{192642}e^4 \otimes e_8 + \frac{2}{753}\sqrt{61566}e^2 \otimes e_5$	{12378, 128, 135678, 1568, 2346, 2467, 345, 457}
831:2	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{321}e^{12}, \frac{9}{169}\sqrt{107}e^{13}, \frac{1}{169}\sqrt{8239}e^{26}$	$(-\frac{12}{169}, -\frac{10}{169}, \frac{75}{169}, \frac{76}{169}, -\frac{31}{169}, -\frac{22}{169}, \frac{63}{169}, -\frac{32}{169})$ $+\frac{107}{169}e^4 \otimes e_5 + \frac{1}{169}\sqrt{19902}e^3 \otimes e_8$	{12346, 12356, 134, 135, 248, 258, 468, 568}
831:2	$0, 0, 0, 0, 0, \frac{20}{281}\sqrt{43}e^{12}, \frac{4}{281}\sqrt{645}e^{13}, \frac{4}{281}\sqrt{1290}e^{26}$	$(-\frac{41}{281}, \frac{70}{281}, \frac{9}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{29}{281}, -\frac{32}{281}, \frac{99}{281})$ $+\frac{2}{281}\sqrt{12126}e^2 \otimes e_5 + \frac{2}{281}\sqrt{8686}e^4 \otimes e_7$	{12348, 1278, 134568, 15678, 2367, 246, 357, 45}
831:2	$0, 0, 0, 0, 0, \frac{10}{213}\sqrt{51}e^{12}, \frac{10}{213}\sqrt{51}e^{13}, \frac{1}{213}\sqrt{12070}e^{26}$	$(-\frac{11}{71}, \frac{19}{213}, \frac{30}{71}, -\frac{22}{71}, \frac{9}{71}, -\frac{14}{213}, \frac{19}{71}, \frac{5}{213})$ $+\frac{1}{213}\sqrt{15810}e^2 \otimes e_4 + \frac{1}{213}\sqrt{15810}e^3 \otimes e_8$	{12578, 1278, 145678, 14678, 23567, 2367, 3457, 347}
831:2	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{426}e^{12}, \frac{1}{57}\sqrt{426}e^{13}, \frac{1}{57}\sqrt{2698}e^{26}$	$(\frac{2}{19}, -\frac{10}{57}, \frac{3}{19}, \frac{1}{19}, -\frac{4}{57}, \frac{5}{19}, -\frac{14}{57})$ $+\frac{1}{19}\sqrt{710}e^4 \otimes e_8$	{12358, 1238, 12578, 1278, 13568, 1368, 15678, 1678, 234567, 23467, 2456, 246, 3457, 347, 4, 45}
831:2	$0, 0, 0, 0, 0, \frac{2}{929}\sqrt{1463}e^{12}, \frac{1}{929}\sqrt{127490}e^{13}, \frac{4}{929}\sqrt{3553}e^{26}$	$(\frac{28}{929}, -\frac{67}{929}, \frac{103}{929}, -\frac{181}{929}, \frac{340}{929}, -\frac{39}{929}, \frac{131}{929}, -\frac{106}{929})$ $+\frac{1}{929}\sqrt{107426}e^5 \otimes e_7 + \frac{44}{929}\sqrt{57}e^1 \otimes e_4 + \frac{5}{929}\sqrt{5434}e^3 \otimes e_8$	{1278, 1678, 23467, 347}
831:2	$0, 0, 0, 0, 0, \frac{20}{167}\sqrt{13}e^{12}, \frac{20}{167}\sqrt{13}e^{13}, \frac{4}{167}\sqrt{390}e^{26}$	$(\frac{50}{167}, -\frac{32}{167}, -\frac{2}{167}, \frac{90}{167}, -\frac{54}{167}, \frac{18}{167}, \frac{48}{167}, -\frac{14}{167})$ $+\frac{4}{167}\sqrt{1001}e^1 \otimes e_5 + \frac{4}{167}\sqrt{871}e^4 \otimes e_8$	{1238, 1278, 1368, 1678, 234567, 2456, 3457, 45}
831:3	$0, 0, 0, 0, 0, \frac{4}{127}\sqrt{290}e^{12}, \frac{8}{127}\sqrt{15}e^{34}, \frac{4}{127}\sqrt{290}e^{16}$	$(\frac{29}{127}, -\frac{11}{127}, \frac{52}{127}, -\frac{28}{127}, -\frac{51}{127}, \frac{18}{127}, \frac{24}{127}, \frac{47}{127})$ $+\frac{4}{127}\sqrt{690}e^1 \otimes e_5 + \frac{80}{127}e^3 \otimes e_4$	{12378, 12478, 1367, 1467, 235678, 245678, 357, 457}
831:3	$0, 0, 0, 0, 0, \frac{2}{849}\sqrt{32277}e^{12}, \frac{1}{849}\sqrt{209986}e^{34}, \frac{2}{283}\sqrt{742}e^{16}$	$(-\frac{34}{283}, \frac{116}{283}, \frac{152}{849}, -\frac{175}{849}, -\frac{73}{283}, \frac{82}{283}, -\frac{23}{849}, \frac{48}{283})$ $+\frac{1}{849}\sqrt{242634}e^3 \otimes e_5 + \frac{2}{283}\sqrt{8533}e^2 \otimes e_7$	{12348, 1258, 1367, 14567, 23468, 2568, 37, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:3	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{91}e^{12}, \frac{1}{21}\sqrt{78}e^{34}, \frac{1}{21}\sqrt{78}e^{16}$	$(-\frac{4}{21}, \frac{2}{3}, \frac{1}{7}, \frac{1}{7}, -\frac{4}{7}, \frac{10}{21}, \frac{2}{7}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{858}e^2 \otimes e_5$	{12348, 12378, 128, 13456, 13567, 156, 23468, 23678, 268, 345, 357, 5}
831:3	$0, 0, 0, 0, 0, \frac{4}{87}\sqrt{290}e^{12}, \frac{8}{87}\sqrt{15}e^{34}, \frac{4}{87}\sqrt{290}e^{16}$	$(\frac{1}{3}, -\frac{11}{87}, \frac{4}{29}, \frac{4}{29}, -\frac{17}{29}, \frac{6}{29}, \frac{8}{29}, \frac{47}{87})$ $+\frac{4}{87}\sqrt{690}e^1 \otimes e_5$	{12348, 12378, 128, 1346, 1367, 16, 234568, 235678, 2568, 345, 357, 5}
831:3	$0, 0, 0, 0, 0, \frac{1}{153}\sqrt{1442}e^{12}, \frac{1}{153}\sqrt{5974}e^{34}, \frac{1}{153}\sqrt{5974}e^{16}$	$(\frac{1}{3}, -\frac{52}{153}, -\frac{8}{153}, -\frac{8}{153}, \frac{29}{51}, -\frac{1}{153}, -\frac{16}{153}, \frac{50}{153})$ $+\frac{2}{153}\sqrt{3399}e^1 \otimes e_2 + \frac{2}{153}\sqrt{3399}e^5 \otimes e_7$	{13456, 1367, 156, 234568, 23678, 2568}
831:3	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{78}e^{12}, \frac{1}{34}\sqrt{78}e^{34}, \frac{1}{17}\sqrt{91}e^{16}$	$(-\frac{2}{17}, \frac{3}{34}, \frac{8}{17}, -\frac{5}{17}, \frac{21}{34}, -\frac{1}{34}, \frac{3}{17}, -\frac{5}{34})$ $+\frac{13}{17}e^3 \otimes e_4 + \frac{1}{34}\sqrt{858}e^5 \otimes e_8$	{12378, 12478, 13567, 14567, 23678, 24678, 357, 457}
831:3	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{78}e^{12}, \frac{2}{21}\sqrt{91}e^{34}, \frac{1}{21}\sqrt{78}e^{16}$	$(\frac{1}{14}, \frac{1}{7}, \frac{2}{3}, -\frac{5}{42}, -\frac{4}{7}, \frac{3}{14}, \frac{23}{42}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{858}e^3 \otimes e_5$	{12348, 12378, 124578, 1258, 1346, 1367, 14567, 156, 23468, 23678, 245678, 2568, 34, 37, 457, 5}
831:3	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{91}e^{12}, \frac{1}{34}\sqrt{78}e^{34}, \frac{1}{34}\sqrt{78}e^{16}$	$(-\frac{2}{17}, \frac{7}{17}, \frac{8}{17}, -\frac{5}{17}, -\frac{6}{17}, \frac{5}{17}, \frac{3}{17}, \frac{3}{17})$ $+\frac{13}{17}e^3 \otimes e_4 + \frac{1}{34}\sqrt{858}e^2 \otimes e_5$	{12378, 12478, 13567, 14567, 23678, 24678, 357, 457}
831:3	$0, 0, 0, 0, 0, \frac{10}{159}\sqrt{33}e^{12}, \frac{1}{159}\sqrt{5830}e^{34}, \frac{10}{159}\sqrt{33}e^{16}$	$(-\frac{13}{53}, \frac{20}{53}, \frac{37}{159}, -\frac{32}{159}, \frac{7}{53}, \frac{7}{53}, \frac{5}{159}, -\frac{6}{53})$ $+\frac{1}{159}\sqrt{7590}e^2 \otimes e_7 + \frac{1}{159}\sqrt{7590}e^3 \otimes e_8$	{1258, 128, 13567, 1367, 2568, 268, 357, 37}
831:3	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{742}e^{12}, \frac{1}{849}\sqrt{209986}e^{34}, \frac{2}{849}\sqrt{32277}e^{16}$	$(-\frac{34}{283}, \frac{24}{283}, \frac{239}{849}, -\frac{175}{849}, \frac{145}{283}, -\frac{10}{283}, \frac{64}{849}, -\frac{44}{283})$ $+\frac{1}{849}\sqrt{242634}e^5 \otimes e_7 + \frac{2}{283}\sqrt{8533}e^3 \otimes e_8$	{12478, 1258, 13456, 1367, 24678, 2568, 345, 37}
831:3	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{78}e^{12}, \frac{2}{21}\sqrt{91}e^{34}, \frac{1}{21}\sqrt{78}e^{16}$	$(\frac{1}{14}, \frac{1}{7}, -\frac{5}{42}, -\frac{5}{42}, 1, \frac{3}{14}, -\frac{5}{21}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{858}e^5 \otimes e_7$	{123458, 12378, 1258, 13456, 1367, 156, 234568, 23678, 2568, 345, 37, 5}
831:3	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{78}e^{12}, \frac{1}{34}\sqrt{78}e^{34}, \frac{1}{17}\sqrt{91}e^{16}$	$(\frac{25}{68}, -\frac{27}{68}, \frac{8}{17}, -\frac{5}{17}, \frac{9}{68}, -\frac{1}{34}, \frac{3}{17}, \frac{23}{68})$ $+\frac{13}{17}e^3 \otimes e_4 + \frac{1}{34}\sqrt{858}e^1 \otimes e_2$	{13567, 1367, 14567, 1467, 235678, 23678, 245678, 24678}
831:3	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{78}e^{12}, \frac{1}{21}\sqrt{78}e^{34}, \frac{2}{21}\sqrt{91}e^{16}$	$(-\frac{4}{21}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{1}{21}, \frac{2}{7}, -\frac{5}{21})$ $+\frac{1}{21}\sqrt{858}e^5 \otimes e_8$	{12348, 12378, 128, 13456, 13567, 156, 23468, 23678, 268, 345, 357, 5}
831:3	$0, 0, 0, 0, 0, \frac{2}{421}\sqrt{798}e^{12}, \frac{4}{421}\sqrt{1482}e^{34}, \frac{4}{421}\sqrt{1482}e^{16}$	$(\frac{33}{421}, -\frac{81}{421}, \frac{99}{421}, -\frac{62}{421}, \frac{151}{421}, -\frac{48}{421}, \frac{37}{421}, -\frac{15}{421})$ $+\frac{2}{421}\sqrt{6213}e^1 \otimes e_2 + \frac{2}{421}\sqrt{6213}e^5 \otimes e_7 + \frac{2}{421}\sqrt{9177}e^3 \otimes e_8$	{13456, 1367, 24678, 2568}
831:3	$0, 0, 0, 0, 0, \frac{1}{159}\sqrt{5830}e^{12}, \frac{10}{159}\sqrt{33}e^{34}, \frac{10}{159}\sqrt{33}e^{16}$	$(\frac{7}{159}, \frac{37}{159}, -\frac{3}{53}, -\frac{3}{53}, -\frac{16}{53}, \frac{44}{53}, -\frac{6}{159}, \frac{17}{53})$ $+\frac{1}{159}\sqrt{7590}e^1 \otimes e_5 + \frac{1}{159}\sqrt{7590}e^2 \otimes e_7$	{12348, 128, 1367, 234568, 2568, 357}
831:3	$0, 0, 0, 0, 0, \frac{5}{38}\sqrt{6}e^{12}, \frac{5}{38}\sqrt{6}e^{34}, \frac{1}{19}\sqrt{55}e^{16}$	$(\frac{2}{19}, -\frac{3}{38}, \frac{1}{19}, -\frac{4}{19}, \frac{15}{38}, \frac{1}{38}, -\frac{3}{19}, \frac{5}{38})$ $+\frac{1}{38}\sqrt{210}e^5 \otimes e_8 + \frac{3}{19}\sqrt{10}e^1 \otimes e_7 + \frac{5}{19}e^3 \otimes e_4$	{23678, 24678, 357, 457}
831:3	$0, 0, 0, 0, 0, \frac{1}{153}\sqrt{1442}e^{12}, \frac{1}{153}\sqrt{5974}e^{34}, \frac{1}{153}\sqrt{5974}e^{16}$	$(\frac{1}{3}, -\frac{52}{153}, \frac{58}{153}, -\frac{8}{153}, -\frac{5}{17}, -\frac{1}{153}, \frac{50}{153}, \frac{50}{153})$ $+\frac{2}{153}\sqrt{3399}e^1 \otimes e_2 + \frac{2}{153}\sqrt{3399}e^3 \otimes e_5$	{1346, 1367, 14567, 156, 23468, 23678, 245678, 2568}
831:3	$0, 0, 0, 0, 0, \frac{4}{87}\sqrt{290}e^{12}, \frac{4}{87}\sqrt{290}e^{34}, \frac{8}{87}\sqrt{15}e^{16}$	$(-\frac{17}{87}, \frac{2}{3}, -\frac{11}{87}, -\frac{11}{87}, \frac{6}{29}, \frac{41}{87}, -\frac{22}{87}, \frac{8}{29})$ $+\frac{4}{87}\sqrt{690}e^2 \otimes e_7$	{123458, 12348, 1258, 128, 13567, 1367, 234568, 23468, 2568, 268, 357, 37}
831:3	$0, 0, 0, 0, 0, \frac{5}{33}\sqrt{6}e^{12}, \frac{2}{33}\sqrt{55}e^{34}, \frac{5}{33}\sqrt{6}e^{16}$	$(\frac{5}{22}, -\frac{1}{11}, \frac{4}{33}, -\frac{13}{66}, -\frac{2}{11}, \frac{3}{22}, -\frac{5}{66}, \frac{4}{11})$ $+\frac{1}{33}\sqrt{210}e^3 \otimes e_5 + \frac{2}{11}\sqrt{10}e^1 \otimes e_7$	{12348, 1258, 1346, 156, 23678, 245678, 37, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:3	$0, 0, 0, 0, 0, \frac{8}{87}\sqrt{15}e^{12}, \frac{4}{87}\sqrt{290}e^{34}, \frac{4}{87}\sqrt{290}e^{16}$	$(-\frac{17}{87}, \frac{4}{29}, \frac{2}{3}, -\frac{11}{87}, \frac{6}{29}, -\frac{5}{87}, \frac{47}{87}, -\frac{22}{87})$ $+\frac{4}{87}\sqrt{690}e^3 \otimes e_8$	{124578, 12478, 1258, 128, 13456, 1346, 13567, 1367, 245678, 24678, 2568, 268, 34, 345, 357, 37}
831:3	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{742}e^{12}, \frac{2}{849}\sqrt{32277}e^{34}, \frac{1}{849}\sqrt{209986}e^{16}$	$(\frac{116}{849}, -\frac{85}{283}, \frac{116}{283}, -\frac{22}{283}, \frac{36}{283}, -\frac{139}{849}, \frac{94}{283}, -\frac{23}{849})$ $+\frac{1}{849}\sqrt{242634}e^1 \otimes e_2 + \frac{2}{283}\sqrt{8533}e^3 \otimes e_8$	{13456, 1346, 13567, 1367, 245678, 24678, 2568, 268}
831:3	$0, 0, 0, 0, 0, \frac{8}{147}\sqrt{15}e^{12}, \frac{4}{21}\sqrt{2}e^{34}, \frac{4}{21}\sqrt{2}e^{16}$	$(\frac{11}{147}, -\frac{4}{49}, \frac{26}{147}, -\frac{31}{147}, \frac{6}{49}, -\frac{1}{147}, -\frac{5}{147}, \frac{10}{147})$ $+\frac{16}{49}e^1 \otimes e_7 + \frac{4}{147}\sqrt{114}e^3 \otimes e_8$	{1258, 128, 13456, 1346, 245678, 24678, 357, 37}
831:3	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{78}e^{12}, \frac{1}{21}\sqrt{78}e^{34}, \frac{2}{21}\sqrt{91}e^{16}$	$(\frac{25}{42}, -\frac{9}{14}, \frac{1}{7}, \frac{1}{7}, \frac{3}{14}, -\frac{1}{21}, \frac{2}{7}, \frac{23}{42})$ $+\frac{1}{21}\sqrt{858}e^1 \otimes e_2$	{13456, 1346, 13567, 1367, 156, 16, 234568, 23468, 235678, 23678, 2568, 268}
831:3	$0, 0, 0, 0, 0, \frac{1}{75}\sqrt{246}e^{12}, \frac{1}{75}\sqrt{246}e^{34}, \frac{1}{15}\sqrt{82}e^{16}$	$(\frac{14}{75}, -\frac{9}{25}, \frac{2}{25}, \frac{2}{25}, \frac{14}{25}, -\frac{13}{75}, \frac{4}{25}, \frac{1}{75})$ $+\frac{1}{75}\sqrt{2706}e^1 \otimes e_2 + \frac{1}{75}\sqrt{2706}e^5 \otimes e_8$	{13456, 13567, 156, 23468, 23678, 268}
831:3	$0, 0, 0, 0, 0, \frac{10}{151}\sqrt{33}e^{12}, \frac{10}{151}\sqrt{33}e^{34}, \frac{4}{151}\sqrt{165}e^{16}$	$(-\frac{28}{151}, \frac{50}{151}, \frac{25}{151}, -\frac{41}{151}, \frac{60}{151}, \frac{22}{151}, -\frac{16}{151}, -\frac{6}{151})$ $+\frac{2}{151}\sqrt{1419}e^5 \otimes e_8 + \frac{2}{151}\sqrt{1914}e^2 \otimes e_7 + \frac{66}{151}e^3 \otimes e_4$	{13567, 14567, 357, 457}
831:3	$0, 0, 0, 0, 0, \frac{4}{127}\sqrt{290}e^{12}, \frac{4}{127}\sqrt{290}e^{34}, \frac{8}{127}\sqrt{15}e^{16}$	$(-\frac{17}{127}, \frac{58}{127}, \frac{29}{127}, -\frac{51}{127}, \frac{18}{127}, \frac{41}{127}, -\frac{22}{127}, \frac{24}{127})$ $+\frac{4}{127}\sqrt{690}e^2 \otimes e_7 + \frac{80}{127}e^3 \otimes e_4$	{13567, 1367, 14567, 1467, 357, 37, 457, 47}
831:3	$0, 0, 0, 0, 0, \frac{2}{191}\sqrt{246}e^{12}, \frac{2}{191}\sqrt{246}e^{34}, \frac{10}{191}\sqrt{82}e^{16}$	$(\frac{28}{191}, -\frac{54}{191}, \frac{53}{191}, -\frac{29}{191}, \frac{84}{191}, -\frac{26}{191}, \frac{24}{191}, \frac{2}{191})$ $+\frac{2}{191}\sqrt{2706}e^1 \otimes e_2 + \frac{2}{191}\sqrt{2706}e^5 \otimes e_8 + \frac{82}{191}e^3 \otimes e_4$	{13567, 14567, 23678, 24678}
831:3	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{55}e^{12}, \frac{5}{33}\sqrt{6}e^{34}, \frac{5}{33}\sqrt{6}e^{16}$	$(\frac{4}{33}, \frac{4}{33}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{8}{33}, -\frac{2}{11}, \frac{4}{11})$ $+\frac{1}{33}\sqrt{210}e^2 \otimes e_5 + \frac{2}{11}\sqrt{10}e^1 \otimes e_7$	{12348, 128, 13456, 156, 23678, 357}
831:3	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{5}\sqrt{10}e^{34}, \frac{1}{5}\sqrt{10}e^{16}$	$(\frac{1}{3}, -\frac{2}{15}, -\frac{2}{15}, -\frac{2}{15}, \frac{1}{5}, \frac{1}{5}, -\frac{4}{15}, \frac{8}{15})$ $+\frac{2}{5}\sqrt{6}e^1 \otimes e_7$	{123458, 12348, 1258, 128, 13456, 1346, 156, 16, 235678, 23678, 357, 37}
831:3	$0, 0, 0, 0, 0, \frac{10}{159}\sqrt{33}e^{12}, \frac{10}{159}\sqrt{33}e^{34}, \frac{1}{159}\sqrt{5830}e^{16}$	$(\frac{7}{159}, -\frac{3}{53}, \frac{20}{53}, -\frac{3}{53}, -\frac{16}{53}, -\frac{2}{159}, \frac{17}{53}, \frac{5}{159})$ $+\frac{1}{159}\sqrt{7590}e^1 \otimes e_5 + \frac{1}{159}\sqrt{7590}e^3 \otimes e_8$	{12478, 128, 1346, 1367, 245678, 2568, 345, 357}
831:3	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{42}e^{12}, \frac{2}{27}\sqrt{42}e^{34}, \frac{2}{27}\sqrt{42}e^{16}$	$(\frac{2}{27}, \frac{4}{27}, \frac{25}{27}, -\frac{17}{27}, \frac{2}{9}, \frac{2}{9}, \frac{8}{27}, \frac{8}{27})$ $+\frac{14}{9}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 13567, 1367, 14567, 1467, 235678, 23678, 245678, 24678, 357, 37, 457, 47}
831:3	$0, 0, 0, 0, 0, \frac{2}{409}\sqrt{1442}e^{12}, \frac{2}{409}\sqrt{5974}e^{34}, \frac{2}{409}\sqrt{5974}e^{16}$	$(\frac{102}{409}, -\frac{104}{409}, \frac{87}{409}, -\frac{119}{409}, \frac{174}{409}, -\frac{2}{409}, -\frac{32}{409}, \frac{100}{409})$ $+\frac{206}{409}e^3 \otimes e_4 + \frac{4}{409}\sqrt{3399}e^1 \otimes e_2 + \frac{4}{409}\sqrt{3399}e^5 \otimes e_7$	{1367, 1467, 23678, 24678}
831:3	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{165}e^{12}, \frac{5}{59}\sqrt{33}e^{34}, \frac{5}{59}\sqrt{33}e^{16}$	$(-\frac{14}{59}, \frac{20}{59}, \frac{25}{59}, -\frac{4}{59}, -\frac{13}{59}, \frac{6}{59}, \frac{21}{59}, -\frac{8}{59})$ $+\frac{1}{59}\sqrt{1419}e^2 \otimes e_5 + \frac{1}{59}\sqrt{1914}e^3 \otimes e_8$	{12478, 128, 13456, 13567, 24678, 268, 345, 357}
831:3	$0, 0, 0, 0, 0, \frac{5}{59}\sqrt{33}e^{12}, \frac{5}{59}\sqrt{33}e^{34}, \frac{2}{59}\sqrt{165}e^{16}$	$(-\frac{14}{59}, \frac{25}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{30}{59}, \frac{11}{59}, -\frac{8}{59}, -\frac{3}{59})$ $+\frac{1}{59}\sqrt{1419}e^5 \otimes e_8 + \frac{1}{59}\sqrt{1914}e^2 \otimes e_7$	{12348, 128, 13567, 23468, 268, 357}
831:3	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{78}e^{12}, \frac{1}{17}\sqrt{91}e^{34}, \frac{1}{34}\sqrt{78}e^{16}$	$(\frac{3}{68}, \frac{3}{34}, \frac{21}{68}, -\frac{31}{68}, \frac{21}{34}, \frac{9}{68}, -\frac{5}{34}, \frac{3}{17})$ $+\frac{13}{17}e^3 \otimes e_4 + \frac{1}{34}\sqrt{858}e^5 \otimes e_7$	{12378, 12478, 1367, 1467, 23678, 24678, 37, 47}
831:3	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{742}e^{12}, \frac{1}{849}\sqrt{209986}e^{34}, \frac{2}{849}\sqrt{32277}e^{16}$	$(-\frac{34}{283}, \frac{24}{283}, \frac{152}{849}, \frac{239}{849}, -\frac{73}{283}, -\frac{10}{283}, \frac{391}{849}, -\frac{44}{283})$ $+\frac{1}{849}\sqrt{242634}e^3 \otimes e_5 + \frac{2}{283}\sqrt{8533}e^4 \otimes e_8$	{12378, 1258, 1346, 14567, 23678, 2568, 34, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:3	$0, 0, 0, 0, 0, \frac{5}{33}\sqrt{6}e^{12}, \frac{5}{33}\sqrt{6}e^{34}, \frac{2}{33}\sqrt{55}e^{16}$	$(\frac{4}{33}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{1}{33}, -\frac{2}{11}, \frac{5}{33})$ $+\frac{1}{33}\sqrt{210}e^5 \otimes e_8 + \frac{2}{11}\sqrt{10}e^1 \otimes e_7$	{12348, 128, 13456, 156, 23678, 357}
831:3	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{10}e^{34}, \frac{2}{13}\sqrt{10}e^{16}$	$(\frac{10}{39}, -\frac{4}{39}, \frac{5}{39}, -\frac{1}{3}, \frac{2}{13}, \frac{2}{13}, -\frac{8}{39}, \frac{16}{39})$ $+\frac{4}{13}\sqrt{6}e^1 \otimes e_7 + \frac{6}{13}e^3 \otimes e_4$	{235678, 23678, 245678, 24678, 357, 37, 457, 47}
831:4	$0, 0, 0, 0, 0, \frac{8}{73}\sqrt{15}e^{12}, \frac{8}{73}\sqrt{3}e^{13}, \frac{16}{73}\sqrt{6}e^{16} + \frac{8}{73}\sqrt{2}e^{23}$	$(\frac{4}{73}, -\frac{4}{73}, \frac{8}{73}, \frac{36}{73}, -\frac{28}{73}, 0, \frac{12}{73}, \frac{4}{73})$ $+\frac{24}{73}\sqrt{3}e^4 \otimes e_8 + \frac{8}{73}\sqrt{37}e^1 \otimes e_5$	{1238, 1346, 235678, 3457}
831:4	$0, 0, 0, 0, 0, \frac{24}{133}\sqrt{3}e^{12}, \frac{8}{133}\sqrt{15}e^{13}, \frac{16}{133}\sqrt{6}e^{16} + \frac{8}{133}\sqrt{6}e^{23}$	$(-\frac{4}{133}, \frac{20}{133}, -\frac{8}{133}, -\frac{36}{133}, \frac{44}{133}, \frac{16}{133}, -\frac{12}{133}, \frac{12}{133})$ $+\frac{16}{133}\sqrt{10}e^2 \otimes e_7 + \frac{8}{133}\sqrt{31}e^5 \otimes e_8 + \frac{8}{19}e^1 \otimes e_4$	{1567, 2468}
831:4	$0, 0, 0, 0, 0, \frac{1}{60}\sqrt{39}e^{12}, \frac{1}{120}\sqrt{2769}e^{13}, \frac{1}{60}\sqrt{390}e^{16} + \frac{1}{120}\sqrt{2769}e^{23}$	$(-\frac{1}{48}, \frac{21}{80}, -\frac{1}{24}, -\frac{11}{30}, \frac{11}{120}, \frac{29}{120}, -\frac{1}{16}, \frac{53}{240})$ $+\frac{1}{120}\sqrt{4290}e^3 \otimes e_4 + \frac{3}{20}\sqrt{13}e^2 \otimes e_7$	{1457, 147, 2458, 248}
831:4	$0, 0, 0, 0, 0, \frac{6}{203}\sqrt{103}e^{12}, \frac{2}{203}\sqrt{515}e^{13}, \frac{4}{203}\sqrt{206}e^{16} + \frac{1}{203}\sqrt{10918}e^{23}$	$(-\frac{19}{203}, \frac{46}{203}, -\frac{38}{203}, \frac{111}{203}, \frac{25}{203}, \frac{27}{203}, -\frac{57}{203}, \frac{8}{203})$ $+\frac{2}{203}\sqrt{4429}e^4 \otimes e_8 + \frac{2}{203}\sqrt{4738}e^2 \otimes e_7$	{14567, 1467, 2568, 268}
831:4	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{14}\sqrt{21}e^{13}, \frac{1}{14}\sqrt{7}e^{16} + \frac{3}{14}\sqrt{7}e^{23}$	$(\frac{1}{14}, -\frac{3}{28}, \frac{1}{7}, \frac{15}{28}, -\frac{5}{14}, -\frac{1}{28}, \frac{3}{14}, \frac{1}{28})$ $+\frac{1}{14}\sqrt{91}e^3 \otimes e_5 + \frac{1}{7}\sqrt{21}e^4 \otimes e_8$	{12346, 138, 2347, 3678}
831:4	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{58}e^{12}, \frac{2}{37}\sqrt{29}e^{13}, \frac{2}{37}\sqrt{58}e^{16} + \frac{2}{37}\sqrt{29}e^{23}$	$(\frac{3}{37}, \frac{5}{37}, \frac{6}{37}, 1, -\frac{21}{37}, \frac{8}{37}, \frac{9}{37}, \frac{11}{37})$ $+\frac{58}{37}e^4 \otimes e_5$	{12478, 12578, 1467, 1567, 2468, 2568, 4, 5}
831:4	$0, 0, 0, 0, 0, \frac{2}{451}\sqrt{1437}e^{12}, \frac{2}{451}\sqrt{13891}e^{13},$ $\frac{16}{451}\sqrt{479}e^{16} + \frac{5}{451}\sqrt{4790}e^{23}$	$(\frac{9}{451}, -\frac{46}{451}, \frac{18}{451}, 1, \frac{85}{451}, -\frac{37}{451}, \frac{27}{451}, -\frac{28}{451})$ $+\frac{2}{451}\sqrt{87657}e^4 \otimes e_8$	{1258, 128, 1456, 146, 25678, 2678, 457, 47}
831:4	$0, 0, 0, 0, 0, \frac{16}{1063}\sqrt{230}e^{12}, \frac{8}{1063}\sqrt{2438}e^{13},$ $\frac{8}{1063}\sqrt{2967}e^{16} + \frac{8}{1063}\sqrt{3427}e^{23}$	$(-\frac{60}{1063}, \frac{26}{1063}, -\frac{120}{1063}, \frac{556}{1063}, \frac{642}{1063}, -\frac{34}{1063}, -\frac{180}{1063}, -\frac{94}{1063})$ $+\frac{104}{1063}\sqrt{69}e^5 \otimes e_8 + \frac{8}{1063}\sqrt{9683}e^4 \otimes e_7$	{123456, 1348, 2357, 3678}
831:4	$0, 0, 0, 0, 0, \frac{4}{145}\sqrt{181}e^{12}, \frac{1}{145}\sqrt{19910}e^{13}, \frac{4}{145}\sqrt{181}e^{16} + \frac{2}{145}\sqrt{362}e^{23}$	$(-\frac{12}{145}, \frac{39}{145}, -\frac{24}{145}, 1, \frac{27}{145}, \frac{27}{145}, -\frac{36}{145}, \frac{3}{29})$ $+\frac{2}{145}\sqrt{10679}e^4 \otimes e_7$	{1234568, 123468, 134, 1345, 23578, 2378, 3567, 367}
831:4	$0, 0, 0, 0, 0, \frac{2}{205}\sqrt{1691}e^{12}, \frac{1}{205}\sqrt{9790}e^{13}, \frac{2}{205}\sqrt{1691}e^{16} + \frac{6}{205}\sqrt{178}e^{23}$	$(\frac{2}{205}, \frac{21}{205}, \frac{4}{205}, \frac{19}{41}, -\frac{87}{205}, \frac{23}{205}, \frac{6}{205}, \frac{5}{41})$ $+\frac{12}{205}\sqrt{89}e^4 \otimes e_7 + \frac{2}{205}\sqrt{4895}e^1 \otimes e_5$	{12348, 1346, 235678, 357}
831:4	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{6}e^{13}, \frac{1}{3}\sqrt{3}e^{16} + \frac{1}{3}\sqrt{6}e^{23}$	$(\frac{1}{6}, 0, \frac{1}{3}, -\frac{2}{3}, \frac{1}{6}, \frac{1}{6}, \frac{1}{2}, \frac{1}{3})$ $+\frac{1}{3}\sqrt{15}e^3 \otimes e_4$	{1245678, 124678, 1457, 147, 2458, 248, 456, 46}
831:4	$0, 0, 0, 0, 0, \frac{8}{1063}\sqrt{2967}e^{12}, \frac{8}{1063}\sqrt{2438}e^{13},$ $\frac{16}{1063}\sqrt{230}e^{16} + \frac{8}{1063}\sqrt{3427}e^{23}$	$(-\frac{60}{1063}, \frac{364}{1063}, -\frac{120}{1063}, \frac{556}{1063}, -\frac{372}{1063}, \frac{304}{1063}, -\frac{180}{1063}, \frac{244}{1063})$ $+\frac{104}{1063}\sqrt{69}e^2 \otimes e_5 + \frac{8}{1063}\sqrt{9683}e^4 \otimes e_7$	{1234, 134568, 2367, 3578}
831:4	$0, 0, 0, 0, 0, \frac{1}{205}\sqrt{8094}e^{12}, \frac{2}{205}\sqrt{1491}e^{13}, \frac{2}{205}\sqrt{1065}e^{16} + \frac{4}{205}\sqrt{71}e^{23}$	$(-\frac{1}{41}, \frac{56}{205}, -\frac{2}{41}, -\frac{76}{205}, \frac{24}{205}, \frac{51}{205}, -\frac{3}{41}, \frac{46}{205})$ $+\frac{2}{41}\sqrt{142}e^1 \otimes e_4 + \frac{9}{205}\sqrt{142}e^2 \otimes e_7$	{12358, 1238, 3457, 347}
831:4	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{39}e^{12}, \frac{1}{17}\sqrt{78}e^{13}, \frac{2}{17}\sqrt{39}e^{16} + \frac{2}{17}\sqrt{26}e^{23}$	$(\frac{2}{17}, \frac{1}{17}, \frac{4}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{6}{17}, \frac{5}{17})$ $+\frac{2}{17}\sqrt{91}e^1 \otimes e_4$	{12358, 1238, 1356, 136, 2345678, 234678, 3457, 347}
831:4	$0, 0, 0, 0, 0, \frac{1}{115}\sqrt{4746}e^{12}, \frac{2}{115}\sqrt{1469}e^{13}, \frac{2}{115}\sqrt{565}e^{16} + \frac{2}{115}\sqrt{1469}e^{23}$	$(-\frac{3}{23}, \frac{68}{115}, -\frac{6}{23}, \frac{22}{115}, \frac{22}{115}, \frac{53}{115}, -\frac{9}{23}, \frac{38}{115})$ $+\frac{1}{115}\sqrt{21018}e^2 \otimes e_7$	{123, 1234, 12345, 34578, 3478, 378}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:4	$0, 0, 0, 0, 0, \frac{3}{29}\sqrt{13}e^{12}, \frac{1}{29}\sqrt{286}e^{13}, \frac{3}{29}\sqrt{13}e^{16} + \frac{1}{29}\sqrt{130}e^{23}$	$(\frac{1}{58}, \frac{2}{29}, \frac{1}{29}, \frac{1}{2}, -\frac{12}{29}, \frac{5}{58}, \frac{3}{58}, \frac{3}{29})$ $+ \frac{1}{29}\sqrt{377}e^3 \otimes e_5 + \frac{2}{29}\sqrt{78}e^4 \otimes e_7$	{125678, 157, 2458, 456}
831:4	$0, 0, 0, 0, 0, \frac{16}{451}\sqrt{479}e^{12}, \frac{2}{451}\sqrt{13891}e^{13},$ $\frac{2}{451}\sqrt{1437}e^{16} + \frac{5}{451}\sqrt{4790}e^{23}$	$(\frac{9}{451}, \frac{18}{41}, \frac{18}{451}, -\frac{281}{451}, \frac{85}{451}, \frac{207}{451}, \frac{27}{451}, \frac{216}{451})$ $+ \frac{2}{451}\sqrt{87657}e^2 \otimes e_4$	{1258, 128, 1456, 146, 25678, 2678, 457, 47}
831:4	$0, 0, 0, 0, 0, \frac{2}{343}\sqrt{4746}e^{12}, \frac{4}{343}\sqrt{1469}e^{13}, \frac{4}{343}\sqrt{565}e^{16} + \frac{4}{343}\sqrt{1469}e^{23}$	$(-\frac{30}{343}, \frac{136}{343}, -\frac{60}{343}, \frac{157}{343}, -\frac{69}{343}, \frac{106}{343}, -\frac{90}{343}, \frac{76}{343})$ $+ \frac{226}{343}e^4 \otimes e_5 + \frac{2}{343}\sqrt{21018}e^2 \otimes e_7$	{1234, 1235, 3478, 3578}
831:4	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{7}e^{12}, \frac{1}{14}\sqrt{21}e^{13}, \frac{1}{14}\sqrt{21}e^{16} + \frac{3}{14}\sqrt{7}e^{23}$	$(\frac{1}{14}, \frac{5}{28}, \frac{1}{7}, -\frac{9}{28}, -\frac{5}{14}, \frac{1}{4}, \frac{3}{14}, \frac{9}{28})$ $+ \frac{1}{14}\sqrt{91}e^3 \otimes e_5 + \frac{1}{7}\sqrt{21}e^2 \otimes e_4$	{123, 13468, 2367, 3478}
831:4	$0, 0, 0, 0, 0, \frac{3}{137}\sqrt{266}e^{12}, \frac{21}{137}\sqrt{6}e^{13}, \frac{3}{137}\sqrt{266}e^{16} + \frac{12}{137}\sqrt{35}e^{23}$	$(-\frac{2}{137}, \frac{17}{137}, -\frac{4}{137}, \frac{76}{137}, -\frac{46}{137}, \frac{15}{137}, -\frac{6}{137}, \frac{13}{137})$ $+ \frac{3}{137}\sqrt{854}e^2 \otimes e_5 + \frac{3}{137}\sqrt{854}e^4 \otimes e_8$	{128, 1456, 2678, 457}
831:4	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{6}e^{12}, \frac{8}{73}\sqrt{3}e^{13}, \frac{8}{73}\sqrt{15}e^{16} + \frac{8}{73}\sqrt{2}e^{23}$	$(\frac{4}{73}, \frac{14}{73}, \frac{8}{73}, -\frac{28}{73}, -\frac{18}{73}, \frac{18}{73}, \frac{12}{73}, \frac{22}{73})$ $+ \frac{24}{73}\sqrt{3}e^2 \otimes e_5 + \frac{8}{73}\sqrt{37}e^1 \otimes e_4$	{1238, 1356, 234678, 3457}
831:4	$0, 0, 0, 0, 0, \frac{50}{2837}\sqrt{30}e^{12}, \frac{100}{2837}\sqrt{65}e^{13},$ $\frac{50}{2837}\sqrt{82}e^{16} + \frac{275}{2837}\sqrt{14}e^{23}$	$(-\frac{75}{2837}, \frac{400}{2837}, -\frac{150}{2837}, -\frac{775}{2837}, \frac{875}{2837}, \frac{325}{2837}, -\frac{225}{2837}, \frac{250}{2837})$ $+ \frac{50}{2837}\sqrt{327}e^5 \otimes e_8 + \frac{50}{2837}\sqrt{483}e^2 \otimes e_7 + \frac{50}{2837}\sqrt{498}e^3 \otimes e_4$	{1457, 248}
831:5	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{65}e^{12}, \frac{2}{27}\sqrt{65}e^{13}, \frac{1}{27}\sqrt{78}e^{16} + \frac{1}{27}\sqrt{91}e^{34}$	$(\frac{5}{27}, -\frac{8}{27}, \frac{5}{18}, -\frac{11}{54}, \frac{5}{54}, -\frac{1}{9}, \frac{25}{54}, \frac{2}{27})$ $+ \frac{13}{27}\sqrt{2}e^1 \otimes e_2 + \frac{1}{27}\sqrt{299}e^3 \otimes e_4$	{2357, 237, 24, 245}
831:5	$0, 0, 0, 0, 0, \frac{10}{51}\sqrt{3}e^{12}, \frac{10}{51}\sqrt{11}e^{13}, \frac{5}{17}e^{16} + \frac{5}{17}e^{34}$	$(-\frac{5}{34}, \frac{10}{51}, \frac{10}{51}, -\frac{5}{17}, \frac{55}{102}, \frac{5}{102}, \frac{5}{102}, -\frac{5}{51})$ $+ \frac{5}{51}\sqrt{47}e^3 \otimes e_4 + \frac{5}{51}\sqrt{47}e^5 \otimes e_7$	{135, 147, 367, 456}
831:5	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{291}e^{12}, \frac{1}{197}\sqrt{9118}e^{13}, \frac{2}{197}\sqrt{970}e^{16} + \frac{2}{197}\sqrt{582}e^{34}$	$(\frac{28}{197}, \frac{1}{197}, -\frac{34}{197}, \frac{91}{197}, -\frac{69}{197}, \frac{29}{197}, -\frac{6}{197}, \frac{57}{197})$ $+ \frac{2}{197}\sqrt{3783}e^4 \otimes e_7 + \frac{2}{197}\sqrt{4559}e^1 \otimes e_5$	{1346, 167, 235678, 24568}
831:5	$0, 0, 0, 0, 0, \frac{6}{431}\sqrt{113}e^{12}, \frac{10}{431}\sqrt{113}e^{13}, \frac{10}{431}\sqrt{565}e^{16} + \frac{2}{431}\sqrt{3503}e^{34}$	$(\frac{81}{431}, -\frac{145}{431}, -\frac{4}{431}, \frac{21}{431}, \frac{243}{431}, -\frac{64}{431}, \frac{77}{431}, \frac{17}{431})$ $+ \frac{2}{431}\sqrt{21583}e^5 \otimes e_8 + \frac{4}{431}\sqrt{5311}e^1 \otimes e_2$	{13456, 1567, 23678, 2468}
831:5	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{2010}e^{12}, \frac{4}{61}\sqrt{134}e^{13}, \frac{1}{61}\sqrt{134}e^{16} + \frac{1}{61}\sqrt{134}e^{34}$	$(-\frac{18}{61}, \frac{46}{61}, -\frac{3}{61}, \frac{13}{61}, \frac{12}{61}, \frac{28}{61}, -\frac{21}{61}, \frac{10}{61})$ $+ \frac{7}{61}\sqrt{134}e^2 \otimes e_7$	{123, 1235, 15678, 1678, 2456, 246, 34578, 3478}
831:5	$0, 0, 0, 0, 0, \frac{5}{647}\sqrt{3570}e^{12}, \frac{170}{647}\sqrt{2}e^{13}, \frac{5}{647}\sqrt{986}e^{16} + \frac{5}{647}\sqrt{3502}e^{34}$	$(-\frac{60}{647}, \frac{278}{647}, -\frac{87}{647}, \frac{245}{647}, -\frac{180}{647}, \frac{218}{647}, -\frac{147}{647}, \frac{158}{647})$ $+ \frac{20}{647}\sqrt{561}e^4 \otimes e_5 + \frac{5}{647}\sqrt{10166}e^2 \otimes e_7$	{1234, 14678, 256, 3578}
831:5	$0, 0, 0, 0, 0, \frac{1}{310}\sqrt{19522}e^{12}, \frac{3}{310}\sqrt{2270}e^{13}, \frac{1}{310}\sqrt{681}e^{16} + \frac{1}{310}\sqrt{681}e^{34}$	$(-\frac{19}{124}, \frac{131}{310}, \frac{263}{620}, -\frac{191}{620}, -\frac{48}{155}, \frac{167}{620}, \frac{42}{155}, \frac{18}{155})$ $+ \frac{2}{155}\sqrt{3859}e^3 \otimes e_4 + \frac{3}{310}\sqrt{6810}e^2 \otimes e_5$	{123, 1247, 2367, 246}
831:5	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{29739}e^{12}, \frac{1}{499}\sqrt{73270}e^{13},$ $\frac{2}{499}\sqrt{33187}e^{16} + \frac{4}{499}\sqrt{2586}e^{34}$	$(\frac{122}{499}, -\frac{43}{499}, \frac{58}{499}, \frac{143}{499}, -\frac{309}{499}, \frac{79}{499}, \frac{180}{499}, \frac{201}{499})$ $+ \frac{2}{499}\sqrt{87062}e^1 \otimes e_5$	{12348, 1278, 136, 1467, 2345678, 2568, 357, 45}
831:5	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{210}e^{12}, \frac{2}{109}\sqrt{966}e^{13}, \frac{2}{109}\sqrt{182}e^{16} + \frac{2}{109}\sqrt{182}e^{34}$	$(\frac{27}{109}, -\frac{29}{109}, \frac{39}{218}, \frac{11}{218}, -\frac{73}{218}, -\frac{2}{109}, \frac{93}{218}, \frac{25}{109})$ $+ \frac{2}{109}\sqrt{1358}e^1 \otimes e_2 + \frac{2}{109}\sqrt{1358}e^3 \otimes e_5$	{138, 14578, 2347, 25}
831:5	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{143}e^{12}, \frac{3}{115}\sqrt{1430}e^{13}, \frac{2}{115}\sqrt{429}e^{16} + \frac{2}{115}\sqrt{429}e^{34}$	$(-\frac{2}{23}, \frac{29}{115}, -\frac{18}{115}, \frac{27}{115}, 1, \frac{19}{115}, -\frac{28}{115}, \frac{9}{115})$ $+ \frac{2}{115}\sqrt{6721}e^5 \otimes e_7$	{1234568, 12678, 135, 147, 23478, 258, 367, 456}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:5	$0, 0, 0, 0, 0, \frac{4}{1225}\sqrt{16842}e^{12}, \frac{2}{1225}\sqrt{55739}e^{13}, \frac{4}{1225}\sqrt{6817}e^{16} + \frac{2}{1225}\sqrt{89423}e^{34}$	$(-\frac{81}{1225}, \frac{19}{49}, -\frac{204}{1225}, \frac{517}{1225}, -\frac{327}{1225}, \frac{394}{1225}, -\frac{57}{245}, \frac{313}{1225}) + \frac{2}{1225}\sqrt{194485}e^2 \otimes e_5 + \frac{2}{1225}\sqrt{233382}e^4 \otimes e_7$	{1234, 127, 3578, 458}
831:5	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39}e^{12}, \frac{4}{19}\sqrt{6}e^{13}, \frac{1}{19}\sqrt{51}e^{16} + \frac{6}{19}e^{34}$	$(\frac{3}{38}, 0, \frac{6}{19}, -\frac{3}{19}, -\frac{15}{38}, \frac{3}{38}, \frac{15}{38}, \frac{3}{19}) + \frac{1}{19}\sqrt{129}e^3 \otimes e_4 + \frac{1}{19}\sqrt{174}e^1 \otimes e_5$	{136, 1467, 357, 45}
831:5	$0, 0, 0, 0, 0, \frac{160}{613}e^{12}, \frac{32}{613}\sqrt{62}e^{13}, \frac{16}{613}\sqrt{42}e^{16} + \frac{16}{613}\sqrt{42}e^{34}$	$(-\frac{136}{613}, \frac{224}{613}, \frac{104}{613}, -\frac{152}{613}, \frac{208}{613}, \frac{88}{613}, -\frac{32}{613}, -\frac{48}{613}) + \frac{16}{613}\sqrt{298}e^5 \otimes e_8 + \frac{16}{613}\sqrt{430}e^2 \otimes e_7 + \frac{32}{613}\sqrt{95}e^3 \otimes e_4$	{1238, 2468}
831:5	$0, 0, 0, 0, 0, \frac{3}{272}\sqrt{210}e^{12}, \frac{63}{272}\sqrt{2}e^{13}, \frac{3}{272}\sqrt{1533}e^{16} + \frac{3}{272}\sqrt{1533}e^{34}$	$(-\frac{53}{544}, \frac{31}{272}, \frac{167}{544}, -\frac{211}{544}, \frac{167}{272}, \frac{9}{544}, \frac{57}{272}, -\frac{11}{136}) + \frac{3}{272}\sqrt{5502}e^5 \otimes e_8 + \frac{63}{272}\sqrt{10}e^3 \otimes e_4$	{1238, 12478, 23678, 2468}
831:5	$0, 0, 0, 0, 0, \frac{2}{423}\sqrt{2227}e^{12}, \frac{1}{423}\sqrt{35894}e^{13}, \frac{2}{423}\sqrt{4847}e^{16} + \frac{4}{423}\sqrt{1965}e^{34}$	$(\frac{2}{141}, \frac{23}{141}, -\frac{28}{423}, \frac{109}{423}, -\frac{53}{423}, \frac{25}{423}, -\frac{22}{423}, \frac{9}{47}) + \frac{2}{423}\sqrt{12707}e^3 \otimes e_5 + \frac{2}{423}\sqrt{12707}e^4 \otimes e_7$	{134, 157, 2378, 2458}
831:5	$0, 0, 0, 0, 0, \frac{6}{431}\sqrt{113}e^{12}, \frac{10}{431}\sqrt{113}e^{13}, \frac{2}{431}\sqrt{3503}e^{16} + \frac{10}{431}\sqrt{565}e^{34}$	$(-\frac{13}{431}, \frac{43}{431}, -\frac{98}{431}, \frac{115}{431}, \frac{243}{431}, \frac{30}{431}, -\frac{111}{431}, \frac{17}{431}) + \frac{2}{431}\sqrt{21583}e^5 \otimes e_8 + \frac{63}{431}\sqrt{5311}e^4 \otimes e_7$	{13456, 1567, 23678, 2468}
831:5	$0, 0, 0, 0, 0, \frac{31}{2669}\sqrt{210}e^{12}, \frac{31}{2669}\sqrt{1090}e^{13}, \frac{62}{2669}\sqrt{233}e^{16} + \frac{93}{2669}\sqrt{6}e^{34}$	$(\frac{310}{2669}, -\frac{651}{2669}, \frac{465}{2669}, -\frac{496}{2669}, \frac{930}{2669}, -\frac{341}{2669}, \frac{775}{2669}, -\frac{31}{2669}) + \frac{310}{2669}\sqrt{14}e^5 \otimes e_8 + \frac{31}{2669}\sqrt{1506}e^3 \otimes e_4 + \frac{62}{2669}\sqrt{493}e^1 \otimes e_2$	{2357, 245}
831:5	$0, 0, 0, 0, 0, \frac{6}{475}\sqrt{503}e^{12}, \frac{1}{475}\sqrt{141846}e^{13}, \frac{2}{475}\sqrt{15593}e^{16} + \frac{2}{475}\sqrt{33198}e^{34}$	$(\frac{26}{475}, \frac{21}{95}, -\frac{186}{475}, \frac{343}{475}, \frac{87}{475}, \frac{131}{475}, -\frac{32}{95}, \frac{157}{475}) + \frac{2}{475}\sqrt{97582}e^4 \otimes e_7$	{134, 1345, 157, 17, 23578, 2378, 2458, 248}
831:5	$0, 0, 0, 0, 0, \frac{30}{1037}\sqrt{61}e^{12}, \frac{15}{1037}\sqrt{838}e^{13}, \frac{90}{1037}\sqrt{2}e^{16} + \frac{30}{1037}\sqrt{67}e^{34}$	$(\frac{60}{1037}, -\frac{165}{1037}, \frac{90}{1037}, -\frac{135}{1037}, \frac{375}{1037}, -\frac{105}{1037}, \frac{150}{1037}, -\frac{45}{1037}) + \frac{30}{1037}\sqrt{161}e^3 \otimes e_4 + \frac{30}{1037}\sqrt{161}e^5 \otimes e_7 + \frac{30}{1037}\sqrt{170}e^1 \otimes e_2$	{237, 245}
831:5	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{5}e^{12}, \frac{6}{29}e^{13}, \frac{12}{29}e^{16} + \frac{12}{29}e^{34}$	$(-\frac{6}{29}, \frac{11}{29}, -\frac{1}{29}, 0, \frac{17}{29}, \frac{5}{29}, -\frac{7}{29}, -\frac{1}{29}) + \frac{12}{29}\sqrt{3}e^2 \otimes e_7 + \frac{6}{29}\sqrt{13}e^5 \otimes e_8$	{1238, 1567, 2468, 3457}
831:5	$0, 0, 0, 0, 0, \frac{3}{803}\sqrt{12190}e^{12}, \frac{2}{803}\sqrt{24115}e^{13}, \frac{2}{803}\sqrt{16165}e^{16} + \frac{12}{803}\sqrt{265}e^{34}$	$(-\frac{35}{803}, \frac{208}{803}, -\frac{2}{73}, \frac{160}{803}, -\frac{300}{803}, \frac{173}{803}, -\frac{57}{803}, \frac{138}{803}) + \frac{1}{803}\sqrt{173310}e^2 \otimes e_7 + \frac{2}{803}\sqrt{51410}e^1 \otimes e_5$	{12348, 1467, 2568, 357}
831:5	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{143}e^{12}, \frac{3}{115}\sqrt{1430}e^{13}, \frac{2}{115}\sqrt{429}e^{16} + \frac{2}{115}\sqrt{429}e^{34}$	$(-\frac{2}{23}, \frac{29}{115}, \frac{76}{115}, -\frac{67}{115}, \frac{21}{115}, \frac{19}{115}, \frac{66}{115}, \frac{9}{115}) + \frac{2}{115}\sqrt{6721}e^3 \otimes e_4$	{13, 135, 1457, 147, 3567, 367, 456, 46}
831:5	$0, 0, 0, 0, 0, \frac{2}{385}\sqrt{2758}e^{12}, \frac{3}{385}\sqrt{5910}e^{13}, \frac{4}{385}\sqrt{591}e^{16} + \frac{4}{385}\sqrt{591}e^{34}$	$(-\frac{20}{77}, \frac{191}{385}, \frac{94}{385}, -\frac{103}{385}, \frac{39}{385}, \frac{13}{55}, -\frac{6}{385}, -\frac{9}{385}) + \frac{2}{385}\sqrt{16351}e^3 \otimes e_4 + \frac{6}{385}\sqrt{1970}e^2 \otimes e_7$	{123, 1235, 2456, 246}
831:5	$0, 0, 0, 0, 0, \frac{3}{721}\sqrt{4602}e^{12}, \frac{108}{721}\sqrt{13}e^{13}, \frac{45}{721}\sqrt{26}e^{16} + \frac{3}{721}\sqrt{6942}e^{34}$	$(-\frac{120}{721}, \frac{334}{721}, \frac{1}{7}, -\frac{9}{721}, -\frac{248}{721}, \frac{214}{721}, -\frac{17}{721}, \frac{94}{721}) + \frac{12}{721}\sqrt{1599}e^3 \otimes e_5 + \frac{3}{721}\sqrt{24414}e^2 \otimes e_7$	{1234, 145678, 256, 378}
831:5	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{65}e^{12}, \frac{2}{27}\sqrt{65}e^{13}, \frac{1}{27}\sqrt{78}e^{16} + \frac{1}{27}\sqrt{91}e^{34}$	$(\frac{5}{27}, -\frac{8}{27}, -\frac{4}{27}, \frac{2}{9}, \frac{14}{27}, -\frac{1}{9}, \frac{1}{27}, \frac{2}{27}) + \frac{13}{27}\sqrt{2}e^1 \otimes e_2 + \frac{1}{27}\sqrt{299}e^5 \otimes e_7$	{13458, 178, 237, 245}
831:5	$0, 0, 0, 0, 0, \frac{6}{475}\sqrt{503}e^{12}, \frac{1}{475}\sqrt{141846}e^{13}, \frac{2}{475}\sqrt{15593}e^{16} + \frac{2}{475}\sqrt{33198}e^{34}$	$(\frac{26}{475}, \frac{21}{95}, \frac{202}{475}, -\frac{9}{95}, -\frac{301}{475}, \frac{131}{475}, \frac{12}{25}, \frac{157}{475}) + \frac{2}{475}\sqrt{97582}e^3 \otimes e_5$	{12368, 1245678, 134, 157, 2378, 2458, 3467, 56}
831:5	$0, 0, 0, 0, 0, \frac{3}{122}\sqrt{1490}e^{12}, \frac{1}{122}\sqrt{3874}e^{13}, \frac{1}{122}\sqrt{2831}e^{16} + \frac{1}{122}\sqrt{2831}e^{34}$	$(-\frac{33}{244}, \frac{77}{122}, \frac{57}{244}, \frac{31}{244}, -\frac{36}{61}, \frac{121}{61}, \frac{6}{61}, \frac{22}{61}) + \frac{1}{122}\sqrt{28906}e^2 \otimes e_5$	{12378, 1248, 134567, 156, 2368, 24678, 345, 57}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:5	$0, 0, 0, 0, 0, \frac{6}{475}\sqrt{503}e^{12}, \frac{1}{475}\sqrt{141846}e^{13},$ $\frac{2}{475}\sqrt{33198}e^{16} + \frac{2}{475}\sqrt{15593}e^{34}$	$(\frac{44}{95}, -\frac{283}{475}, \frac{8}{475}, \frac{149}{475}, \frac{87}{475}, -\frac{63}{475}, \frac{12}{25}, \frac{157}{475})$ $+ \frac{2}{475}\sqrt{97582}e^1 \otimes e_2$	{13458, 1348, 1578, 178, 2357, 237, 24, 245}
831:5	$0, 0, 0, 0, 0, \frac{2}{479}\sqrt{13002}e^{12}, \frac{1}{479}\sqrt{43734}e^{13},$ $\frac{3}{479}\sqrt{1970}e^{16} + \frac{3}{479}\sqrt{23246}e^{34}$	$(\frac{103}{479}, \frac{51}{479}, -\frac{45}{479}, \frac{302}{479}, -\frac{289}{479}, \frac{154}{479}, \frac{58}{479}, \frac{257}{479})$ $+ \frac{48}{479}\sqrt{197}e^4 \otimes e_5$	{12347, 125, 135678, 1468, 2346, 2567, 358, 478}
831:5	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{14}{41}\sqrt{3}e^{13}, \frac{12}{41}\sqrt{7}e^{16} + \frac{12}{41}\sqrt{7}e^{34}$	$(-\frac{2}{41}, \frac{3}{41}, \frac{3}{41}, -\frac{4}{41}, 1, \frac{1}{41}, \frac{1}{41}, -\frac{1}{41})$ $+ \frac{6}{41}\sqrt{77}e^5 \otimes e_8$	{12378, 1248, 134567, 156, 2368, 24678, 345, 57}
831:6	$0, 0, 0, 0, 0, \frac{2}{1657}\sqrt{54730}e^{12}, \frac{4}{1657}\sqrt{59361}e^{13},$ $\frac{6}{1657}\sqrt{5473}e^{26} + \frac{2}{1657}\sqrt{69465}e^{34}$	$(\frac{260}{1657}, -\frac{61}{1657}, \frac{490}{1657}, -\frac{352}{1657}, -\frac{582}{1657}, \frac{199}{1657}, \frac{750}{1657}, \frac{138}{1657})$ $+ \frac{2}{1657}\sqrt{295963}e^3 \otimes e_4 + \frac{32}{1657}\sqrt{1263}e^1 \otimes e_5$	{23567, 2456, 357, 45}
831:6	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{143002}e^{12}, \frac{2}{521}\sqrt{39410}e^{13},$ $\frac{2}{521}\sqrt{12386}e^{26} + \frac{2}{521}\sqrt{7319}e^{34}$	$(\frac{254}{521}, -\frac{65}{521}, -\frac{8}{521}, \frac{132}{521}, -\frac{309}{521}, \frac{189}{521}, \frac{246}{521}, \frac{124}{521})$ $+ \frac{1}{521}\sqrt{467290}e^1 \otimes e_5$	{12348, 1278, 13468, 1678, 23567, 2456, 357, 45}
831:6	$0, 0, 0, 0, 0, \frac{6}{857}\sqrt{2123}e^{12}, \frac{1}{857}\sqrt{101518}e^{13},$ $\frac{2}{857}\sqrt{21230}e^{26} + \frac{2}{857}\sqrt{12545}e^{34}$	$(-\frac{41}{857}, \frac{112}{857}, -\frac{40}{857}, \frac{223}{857}, -\frac{234}{857}, \frac{71}{857}, -\frac{81}{857}, \frac{183}{857})$ $+ \frac{1}{857}\sqrt{126222}e^1 \otimes e_5 + \frac{1}{857}\sqrt{168682}e^2 \otimes e_7$	{12348, 1678, 2456, 357}
831:6	$0, 0, 0, 0, 0, \frac{2}{1249}\sqrt{76465}e^{12}, \frac{2}{1249}\sqrt{64902}e^{13},$ $\frac{6}{1249}\sqrt{12309}e^{26} + \frac{2}{1249}\sqrt{38046}e^{34}$	$(-\frac{214}{1249}, \frac{287}{1249}, \frac{553}{1249}, -\frac{193}{1249}, -\frac{459}{1249}, \frac{73}{1249}, \frac{339}{1249}, \frac{360}{1249})$ $+ \frac{4}{1249}\sqrt{42895}e^3 \otimes e_4 + \frac{8}{1249}\sqrt{14547}e^2 \otimes e_5$	{2367, 246, 357, 45}
831:6	$0, 0, 0, 0, 0, \frac{8}{263}\sqrt{345}e^{12}, \frac{4}{263}\sqrt{1909}e^{13}, \frac{4}{263}\sqrt{2369}e^{26} + \frac{92}{263}\sqrt{2}e^{34}$	$(-\frac{95}{263}, \frac{100}{263}, \frac{11}{263}, \frac{94}{263}, \frac{48}{263}, \frac{5}{263}, -\frac{84}{263}, \frac{105}{263})$ $+ \frac{4}{263}\sqrt{4945}e^2 \otimes e_7$	{123458, 12348, 15678, 1678, 2456, 246, 357, 37}
831:6	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{38}e^{12}, \frac{4}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{57}e^{26} + \frac{2}{31}\sqrt{57}e^{34}$	$(-\frac{4}{31}, \frac{5}{31}, -\frac{3}{31}, \frac{9}{31}, 1, \frac{1}{31}, -\frac{7}{31}, \frac{6}{31})$ $+ \frac{10}{31}\sqrt{19}e^5 \otimes e_7$	{12356, 12467, 135, 147, 23478, 258, 34678, 568}
831:6	$0, 0, 0, 0, 0, \frac{2}{521}\sqrt{12386}e^{12}, \frac{2}{521}\sqrt{7319}e^{13},$ $\frac{1}{521}\sqrt{143002}e^{26} + \frac{2}{521}\sqrt{39410}e^{34}$	$(\frac{88}{521}, -\frac{65}{521}, -\frac{8}{521}, -\frac{34}{521}, 1, \frac{23}{521}, \frac{80}{521}, -\frac{42}{521})$ $+ \frac{1}{521}\sqrt{467290}e^5 \otimes e_8$	{12378, 1248, 13678, 1468, 23456, 2567, 345, 57}
831:6	$0, 0, 0, 0, 0, \frac{6}{1277}\sqrt{4379}e^{12}, \frac{6}{1277}\sqrt{11078}e^{13},$ $\frac{6}{1277}\sqrt{8265}e^{26} + \frac{12}{1277}\sqrt{145}e^{34}$	$(-\frac{368}{1277}, \frac{399}{1277}, \frac{245}{1277}, \frac{185}{1277}, -\frac{277}{1277}, \frac{31}{1277}, -\frac{123}{1277}, \frac{430}{1277})$ $+ \frac{6}{1277}\sqrt{12818}e^3 \otimes e_5 + \frac{6}{1277}\sqrt{19430}e^2 \otimes e_7$	{12348, 15678, 2456, 37}
831:6	$0, 0, 0, 0, 0, \frac{4}{1321}\sqrt{874}e^{12}, \frac{20}{1321}\sqrt{874}e^{13},$ $\frac{2}{1321}\sqrt{96577}e^{26} + \frac{22}{1321}\sqrt{437}e^{34}$	$(-\frac{16}{1321}, -\frac{37}{1321}, \frac{392}{1321}, -\frac{482}{1321}, \frac{784}{1321}, -\frac{53}{1321}, \frac{376}{1321}, -\frac{90}{1321})$ $+ \frac{152}{1321}\sqrt{46}e^5 \otimes e_8 + \frac{2}{1321}\sqrt{234669}e^3 \otimes e_4$	{2378, 248, 3678, 468}
831:6	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{5123}e^{12}, \frac{2}{441}\sqrt{19838}e^{13},$ $\frac{2}{441}\sqrt{3597}e^{26} + \frac{2}{441}\sqrt{6322}e^{34}$	$(-\frac{94}{441}, \frac{55}{441}, \frac{13}{49}, -\frac{101}{441}, \frac{241}{441}, -\frac{13}{147}, \frac{23}{441}, \frac{16}{441})$ $+ \frac{20}{441}\sqrt{218}e^3 \otimes e_4 + \frac{20}{441}\sqrt{218}e^5 \otimes e_7$	{12356, 12467, 135, 147}
831:6	$0, 0, 0, 0, 0, \frac{6}{13}\sqrt{3}e^{12}, \frac{2}{13}\sqrt{3}e^{13}, \frac{6}{13}\sqrt{3}e^{26} + \frac{2}{13}\sqrt{3}e^{34}$	$(-\frac{3}{26}, \frac{4}{13}, \frac{7}{26}, \frac{3}{13}, -\frac{8}{13}, \frac{5}{26}, \frac{2}{13}, \frac{1}{2})$ $+ \frac{6}{13}\sqrt{7}e^2 \otimes e_5$	{123478, 128, 1345678, 1568, 236, 2467, 35, 457}
831:6	$0, 0, 0, 0, 0, \frac{2}{683}\sqrt{14135}e^{12}, \frac{4}{683}\sqrt{3598}e^{13},$ $\frac{1}{683}\sqrt{117706}e^{26} + \frac{2}{683}\sqrt{514}e^{34}$	$(-\frac{134}{683}, \frac{103}{683}, -\frac{20}{683}, \frac{92}{683}, \frac{329}{683}, -\frac{31}{683}, -\frac{154}{683}, \frac{72}{683})$ $+ \frac{1}{683}\sqrt{123874}e^5 \otimes e_8 + \frac{2}{683}\sqrt{45489}e^2 \otimes e_7$	{12348, 1678, 2456, 357}
831:6	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{7}e^{12}, \frac{4}{51}\sqrt{91}e^{13}, \frac{4}{51}\sqrt{7}e^{26} + \frac{4}{51}\sqrt{91}e^{34}$	$(-\frac{2}{51}, \frac{4}{17}, \frac{25}{51}, -\frac{1}{17}, -\frac{31}{51}, \frac{10}{51}, \frac{23}{51}, \frac{22}{51})$ $+ \frac{4}{51}\sqrt{287}e^3 \otimes e_5$	{12368, 1245678, 138, 14578, 2347, 25, 3467, 56}
831:6	$0, 0, 0, 0, 0, \frac{14}{507}\sqrt{87}e^{12}, \frac{2}{507}\sqrt{15834}e^{13},$ $\frac{2}{507}\sqrt{12093}e^{26} + \frac{4}{507}\sqrt{1914}e^{34}$	$(-\frac{58}{169}, \frac{47}{169}, \frac{47}{169}, -\frac{11}{169}, \frac{19}{169}, -\frac{11}{169}, -\frac{11}{169}, \frac{36}{169})$ $+ \frac{2}{507}\sqrt{15486}e^3 \otimes e_4 + \frac{8}{507}\sqrt{1479}e^2 \otimes e_7$	{2456, 246, 357, 37}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:6	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{38}e^{12}, \frac{4}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{57}e^{26} + \frac{2}{31}\sqrt{57}e^{34}$	$(-\frac{4}{31}, \frac{5}{31}, \frac{22}{31}, -\frac{16}{31}, \frac{6}{31}, \frac{1}{31}, \frac{18}{31}, \frac{6}{31})$ $+ \frac{10}{31}\sqrt{19}e^3 \otimes e_4$	{12356, 1236, 124567, 12467, 13, 135, 1457, 147}
831:6	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{62}e^{12}, \frac{1}{37}\sqrt{166}e^{13}, \frac{1}{37}\sqrt{182}e^{26} + \frac{2}{37}\sqrt{11}e^{34}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{3}{37})$ $+ \frac{1}{37}\sqrt{286}e^2 \otimes e_7 + \frac{2}{37}\sqrt{41}e^3 \otimes e_4 + \frac{5}{37}\sqrt{6}e^5 \otimes e_8$	{2456, 357}
831:6	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{57}e^{12}, \frac{2}{31}\sqrt{57}e^{13}, \frac{2}{31}\sqrt{38}e^{26} + \frac{4}{31}\sqrt{57}e^{34}$	$(\frac{6}{31}, \frac{5}{31}, -\frac{3}{31}, \frac{19}{31}, -\frac{19}{31}, \frac{11}{31}, \frac{3}{31}, \frac{16}{31})$ $+ \frac{10}{31}\sqrt{19}e^4 \otimes e_5$	{12347, 125, 13467, 156, 23568, 24678, 358, 478}
831:7	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{38}e^{12}, \frac{28}{485}\sqrt{21}e^{13} + \frac{14}{485}\sqrt{10}e^{24}, \frac{28}{485}\sqrt{37}e^{16}$	$(\frac{21}{485}, \frac{21}{485}, -\frac{77}{485}, -\frac{77}{485}, \frac{161}{485}, \frac{42}{485}, -\frac{56}{485}, \frac{63}{485})$ $+ \frac{14}{485}\sqrt{123}e^5 \otimes e_8 + \frac{14}{485}\sqrt{199}e^1 \otimes e_3 + \frac{14}{97}\sqrt{5}e^2 \otimes e_4$	{128, 1456, 2368, 345}
831:7	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{38}e^{12}, \frac{28}{485}\sqrt{21}e^{13} + \frac{14}{485}\sqrt{10}e^{24}, \frac{28}{485}\sqrt{37}e^{16}$	$(\frac{21}{485}, \frac{21}{485}, -\frac{77}{485}, -\frac{77}{485}, \frac{161}{485}, \frac{42}{485}, -\frac{56}{485}, \frac{63}{485})$ $+ \frac{14}{485}\sqrt{123}e^5 \otimes e_8 + \frac{14}{485}\sqrt{199}e^1 \otimes e_3 - \frac{14}{97}\sqrt{5}e^2 \otimes e_4$	{128, 1456, 2368, 345}
831:7	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{2442}e^{12}, \frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{160358}e^{24}, \frac{14}{487}\sqrt{814}e^{16}$	$(-\frac{5}{487}, -\frac{107}{487}, \frac{188}{487}, \frac{290}{487}, \frac{87}{487}, -\frac{112}{487}, \frac{183}{487}, -\frac{117}{487})$ $+ \frac{20}{487}\sqrt{814}e^4 \otimes e_8$	{12456, 1246, 158, 18, 234, 2345, 3568, 368}
831:7	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{33187}e^{12}, \frac{1}{499}\sqrt{73270}e^{13} + \frac{4}{499}\sqrt{2586}e^{24}, \frac{2}{499}\sqrt{29739}e^{16}$	$(\frac{122}{499}, -\frac{11}{499}, \frac{10}{499}, \frac{143}{499}, -\frac{309}{499}, \frac{111}{499}, \frac{132}{499}, \frac{233}{499})$ $+ \frac{2}{499}\sqrt{87062}e^1 \otimes e_5$	{1238, 12478, 1346, 167, 2345678, 2568, 357, 45}
831:7	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{2831}e^{12}, \frac{1}{122}\sqrt{3874}e^{13} + \frac{1}{122}\sqrt{2831}e^{24}, \frac{3}{122}\sqrt{1490}e^{16}$	$(-\frac{33}{244}, \frac{3}{61}, \frac{19}{244}, \frac{31}{244}, 1, -\frac{21}{244}, \frac{43}{244}, -\frac{27}{122})$ $+ \frac{1}{122}\sqrt{28906}e^5 \otimes e_8$	{12378, 1248, 134567, 156, 23468, 2678, 35, 457}
831:7	$0, 0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{10}{79}e^{13} + \frac{5}{79}\sqrt{74}e^{24}, \frac{5}{79}\sqrt{70}e^{16}$	$(-\frac{5}{79}, -\frac{5}{79}, \frac{35}{79}, \frac{35}{79}, -\frac{15}{79}, -\frac{10}{79}, \frac{30}{79}, -\frac{15}{79})$ $+ \frac{10}{79}\sqrt{43}e^4 \otimes e_8 + \frac{5}{79}\sqrt{102}e^3 \otimes e_5$	{12346, 138, 245, 568}
831:7	$0, 0, 0, 0, 0, \frac{45}{721}\sqrt{26}e^{12}, \frac{108}{721}\sqrt{13}e^{13} + \frac{3}{721}\sqrt{6942}e^{24}, \frac{3}{721}\sqrt{4602}e^{16}$	$(-\frac{120}{721}, \frac{66}{721}, \frac{177}{721}, -\frac{9}{721}, \frac{408}{721}, -\frac{54}{721}, \frac{57}{721}, -\frac{174}{721})$ $+ \frac{12}{721}\sqrt{1599}e^5 \otimes e_7 + \frac{3}{721}\sqrt{24414}e^3 \otimes e_8$	{123456, 1478, 237, 568}
831:7	$0, 0, 0, 0, 0, \frac{3}{587}\sqrt{9690}e^{12}, \frac{1}{587}\sqrt{65246}e^{13} + \frac{9}{587}\sqrt{646}e^{24}, \frac{18}{587}\sqrt{323}e^{16}$	$(\frac{189}{587}, -\frac{141}{587}, -\frac{134}{587}, \frac{196}{587}, -\frac{127}{587}, \frac{48}{587}, \frac{55}{587}, \frac{237}{587})$ $+ \frac{2}{587}\sqrt{32623}e^4 \otimes e_5 + \frac{2}{587}\sqrt{50065}e^1 \otimes e_3$	{1248, 156, 23468, 35}
831:7	$0, 0, 0, 0, 0, \frac{5}{647}\sqrt{3502}e^{12}, \frac{170}{647}\sqrt{2}e^{13} + \frac{5}{647}\sqrt{986}e^{24}, \frac{5}{647}\sqrt{3570}e^{16}$	$(-\frac{192}{647}, \frac{274}{647}, \frac{315}{647}, -\frac{151}{647}, \frac{84}{647}, \frac{82}{647}, \frac{123}{647}, -\frac{110}{647})$ $+ \frac{20}{647}\sqrt{561}e^2 \otimes e_4 + \frac{5}{647}\sqrt{10166}e^3 \otimes e_8$	{13456, 1346, 2568, 268}
831:7	$0, 0, 0, 0, 0, \frac{4}{1167}\sqrt{9686}e^{12}, \frac{4}{1167}\sqrt{1914}e^{13} + \frac{8}{1167}\sqrt{2581}e^{24}, \frac{80}{1167}\sqrt{58}e^{16}$	$(\frac{112}{1167}, -\frac{66}{389}, \frac{60}{389}, \frac{490}{1167}, -\frac{352}{1167}, -\frac{86}{1167}, \frac{292}{1167}, \frac{26}{1167})$ $+ \frac{4}{1167}\sqrt{28942}e^1 \otimes e_5 + \frac{4}{1167}\sqrt{30218}e^4 \otimes e_8$	{12378, 13467, 25678, 457}
831:7	$0, 0, 0, 0, 0, \frac{34}{1585}\sqrt{422}e^{12}, \frac{34}{1585}\sqrt{299}e^{13} + \frac{34}{1585}\sqrt{15}e^{24}, \frac{68}{1585}\sqrt{157}e^{16}$	$(\frac{231}{1585}, -\frac{269}{1585}, -\frac{347}{1585}, \frac{153}{1585}, \frac{771}{1585}, -\frac{38}{1585}, -\frac{116}{1585}, \frac{193}{1585})$ $+ \frac{102}{1585}\sqrt{67}e^5 \otimes e_8 + \frac{34}{1585}\sqrt{814}e^1 \otimes e_3$	{1248, 156, 23468, 35}
831:7	$0, 0, 0, 0, 0, \frac{16}{307}\sqrt{106}e^{12}, \frac{16}{307}\sqrt{19}e^{13} + \frac{16}{307}\sqrt{30}e^{24}, \frac{16}{307}\sqrt{57}e^{16}$	$(\frac{8}{307}, \frac{76}{307}, \frac{16}{307}, -\frac{52}{307}, -\frac{120}{307}, \frac{84}{307}, \frac{24}{307}, \frac{92}{307})$ $+ \frac{16}{307}\sqrt{155}e^1 \otimes e_5 + \frac{48}{307}\sqrt{13}e^2 \otimes e_4$	{1238, 1346, 2568, 45}
831:7	$0, 0, 0, 0, 0, \frac{33}{2671}\sqrt{30}e^{12}, \frac{66}{2671}\sqrt{282}e^{13} + \frac{33}{2671}\sqrt{406}e^{24}, \frac{33}{2671}\sqrt{418}e^{16}$	$(-\frac{528}{2671}, \frac{594}{2671}, \frac{627}{2671}, -\frac{495}{2671}, \frac{1188}{2671}, \frac{66}{2671}, \frac{99}{2671}, -\frac{462}{2671})$ $+ \frac{132}{2671}\sqrt{69}e^2 \otimes e_4 + \frac{231}{2671}\sqrt{38}e^3 \otimes e_8 + \frac{264}{2671}\sqrt{29}e^5 \otimes e_7$	{1278, 347}
831:7	$0, 0, 0, 0, 0, \frac{4}{1263}\sqrt{7303}e^{12}, \frac{4}{1263}\sqrt{1273}e^{13} + \frac{4}{1263}\sqrt{30217}e^{24}, \frac{4}{1263}\sqrt{16549}e^{16}$	$(-\frac{14}{1263}, -\frac{199}{1263}, \frac{124}{1263}, \frac{103}{421}, \frac{646}{1263}, -\frac{71}{421}, \frac{110}{1263}, -\frac{227}{1263})$ $+ \frac{4}{1263}\sqrt{33701}e^5 \otimes e_7 + \frac{4}{1263}\sqrt{41339}e^4 \otimes e_8$	{123456, 1358, 245, 568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:7	$0, 0, 0, 0, 0, \frac{8}{313}\sqrt{339}e^{12}, \frac{2}{313}\sqrt{5763}e^{13} + \frac{1}{313}\sqrt{9266}e^{24}, \frac{3}{313}\sqrt{226}e^{16}$	$(-\frac{57}{313}, \frac{147}{313}, \frac{125}{313}, -\frac{79}{313}, -\frac{101}{313}, \frac{90}{313}, \frac{68}{313}, \frac{33}{313})$ $+ \frac{1}{313}\sqrt{62602}e^3 \otimes e_5 + \frac{2}{313}\sqrt{15481}e^2 \otimes e_4$	{123, 13468, 256, 458}
831:7	$0, 0, 0, 0, 0, \frac{18}{1469}\sqrt{1605}e^{12}, \frac{18}{1469}\sqrt{951}e^{13} + \frac{18}{1469}\sqrt{543}e^{24}, \frac{18}{1469}\sqrt{1185}e^{16}$	$(\frac{255}{1469}, \frac{45}{1469}, -\frac{231}{1469}, -\frac{21}{1469}, -\frac{441}{1469}, \frac{300}{1469}, \frac{24}{1469}, \frac{555}{1469})$ $+ \frac{108}{1469}\sqrt{59}e^1 \otimes e_3 + \frac{18}{1469}\sqrt{1803}e^2 \otimes e_5$	{1248, 156, 23468, 35}
831:7	$0, 0, 0, 0, 0, \frac{2}{475}\sqrt{15593}e^{12}, \frac{1}{475}\sqrt{141846}e^{13} + \frac{2}{475}\sqrt{33198}e^{24}, \frac{6}{475}\sqrt{503}e^{16}$	$(\frac{26}{475}, \frac{17}{475}, -\frac{54}{475}, -\frac{9}{475}, 1, \frac{43}{475}, -\frac{28}{475}, \frac{69}{475})$ $+ \frac{2}{475}\sqrt{97582}e^5 \otimes e_7$	{1234568, 12678, 135, 147, 2378, 2458, 3467, 56}
831:7	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{16165}e^{12}, \frac{2}{803}\sqrt{24115}e^{13} + \frac{12}{803}\sqrt{265}e^{24}, \frac{3}{803}\sqrt{12190}e^{16}$	$(-\frac{35}{803}, \frac{38}{803}, \frac{233}{803}, \frac{160}{803}, -\frac{300}{803}, \frac{3}{803}, \frac{18}{803}, -\frac{32}{803})$ $+ \frac{1}{803}\sqrt{173310}e^3 \otimes e_8 + \frac{2}{803}\sqrt{51410}e^1 \otimes e_5$	{12478, 1346, 2568, 357}
831:7	$0, 0, 0, 0, 0, \frac{12}{29}e^{12}, \frac{6}{29}e^{13} + \frac{12}{29}e^{24}, \frac{6}{29}\sqrt{5}e^{16}$	$(-\frac{6}{29}, \frac{9}{29}, \frac{15}{29}, 0, -\frac{9}{29}, \frac{3}{29}, \frac{9}{29}, -\frac{3}{29})$ $+ \frac{12}{29}\sqrt{3}e^3 \otimes e_8 + \frac{6}{29}\sqrt{13}e^2 \otimes e_5$	{1278, 1356, 2468, 3457}
831:7	$0, 0, 0, 0, 0, \frac{2}{1449}\sqrt{152306}e^{12}, \frac{2}{1449}\sqrt{74261}e^{13} + \frac{2}{1449}\sqrt{2365}e^{24}, \frac{4}{161}\sqrt{473}e^{16}$	$(-\frac{103}{483}, \frac{487}{1449}, \frac{337}{1449}, -\frac{51}{161}, \frac{815}{1449}, \frac{178}{1449}, \frac{4}{207}, -\frac{131}{1449})$ $+ \frac{2}{1449}\sqrt{299882}e^2 \otimes e_4 + \frac{2}{1449}\sqrt{300355}e^5 \otimes e_8$	{12378, 134567, 2678, 457}
831:7	$0, 0, 0, 0, 0, \frac{3}{479}\sqrt{23246}e^{12}, \frac{1}{479}\sqrt{43734}e^{13} + \frac{3}{479}\sqrt{1970}e^{24}, \frac{2}{479}\sqrt{13002}e^{16}$	$(-\frac{89}{479}, \frac{317}{479}, \frac{132}{479}, -\frac{274}{479}, \frac{95}{479}, \frac{228}{479}, \frac{43}{479}, \frac{139}{479})$ $+ \frac{48}{479}\sqrt{197}e^2 \otimes e_4$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}
831:7	$0, 0, 0, 0, 0, \frac{5}{647}\sqrt{986}e^{12}, \frac{170}{647}\sqrt{2}e^{13} + \frac{5}{647}\sqrt{3502}e^{24}, \frac{5}{647}\sqrt{3570}e^{16}$	$(-\frac{60}{647}, \frac{10}{647}, \frac{315}{647}, \frac{245}{647}, -\frac{180}{647}, -\frac{50}{647}, \frac{255}{647}, -\frac{110}{647})$ $+ \frac{20}{647}\sqrt{561}e^4 \otimes e_5 + \frac{5}{647}\sqrt{10166}e^3 \otimes e_8$	{12346, 1478, 2357, 568}
831:7	$0, 0, 0, 0, 0, \frac{26}{491}\sqrt{82}e^{12}, \frac{13}{491}\sqrt{111}e^{13} + \frac{13}{491}\sqrt{3}e^{24}, \frac{78}{491}\sqrt{6}e^{16}$	$(\frac{52}{491}, \frac{52}{491}, -\frac{117}{491}, -\frac{117}{491}, \frac{104}{491}, \frac{104}{491}, -\frac{65}{491}, \frac{156}{491})$ $+ \frac{273}{491}e^1 \otimes e_3 - \frac{39}{491}\sqrt{37}e^2 \otimes e_4 + \frac{52}{491}\sqrt{7}e^5 \otimes e_7$	{1258, 1456, 23568, 345}
831:7	$0, 0, 0, 0, 0, \frac{26}{491}\sqrt{82}e^{12}, \frac{13}{491}\sqrt{111}e^{13} + \frac{13}{491}\sqrt{3}e^{24}, \frac{78}{491}\sqrt{6}e^{16}$	$(\frac{52}{491}, \frac{52}{491}, -\frac{117}{491}, -\frac{117}{491}, \frac{104}{491}, \frac{104}{491}, -\frac{65}{491}, \frac{156}{491})$ $+ \frac{273}{491}e^1 \otimes e_3 + \frac{39}{491}\sqrt{37}e^2 \otimes e_4 + \frac{52}{491}\sqrt{7}e^5 \otimes e_7$	{1258, 1456, 23568, 345}
831:7	$0, 0, 0, 0, 0, \frac{3}{479}\sqrt{1970}e^{12}, \frac{1}{479}\sqrt{43734}e^{13} + \frac{3}{479}\sqrt{23246}e^{24}, \frac{2}{479}\sqrt{13002}e^{16}$	$(\frac{103}{479}, -\frac{67}{479}, \frac{132}{479}, \frac{302}{479}, -\frac{289}{479}, \frac{36}{479}, \frac{235}{479}, \frac{139}{479})$ $+ \frac{48}{479}\sqrt{197}e^4 \otimes e_5$	{123567, 1246, 13478, 158, 234, 257, 3568, 4678}
831:7	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{134}e^{12}, \frac{4}{61}\sqrt{134}e^{13} + \frac{1}{61}\sqrt{134}e^{24}, \frac{1}{61}\sqrt{2010}e^{16}$	$(-\frac{18}{61}, \frac{14}{61}, \frac{45}{61}, \frac{13}{61}, \frac{12}{61}, -\frac{4}{61}, \frac{27}{61}, -\frac{22}{61})$ $+ \frac{7}{61}\sqrt{134}e^3 \otimes e_8$	{12356, 1236, 1578, 178, 23457, 2347, 4568, 468}
831:7	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{710}e^{12}, \frac{1}{197}\sqrt{4899}e^{13} + \frac{1}{197}\sqrt{1207}e^{24}, \frac{2}{197}\sqrt{1846}e^{16}$	$(\frac{24}{197}, \frac{24}{197}, -\frac{47}{197}, -\frac{47}{197}, \frac{20}{197}, \frac{48}{197}, -\frac{23}{197}, \frac{72}{197})$ $- \frac{1}{197}\sqrt{10721}e^2 \otimes e_4 + \frac{1}{197}\sqrt{14413}e^1 \otimes e_3$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}
831:7	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{710}e^{12}, \frac{1}{197}\sqrt{4899}e^{13} + \frac{1}{197}\sqrt{1207}e^{24}, \frac{2}{197}\sqrt{1846}e^{16}$	$(\frac{24}{197}, \frac{24}{197}, -\frac{47}{197}, -\frac{47}{197}, \frac{20}{197}, \frac{48}{197}, -\frac{23}{197}, \frac{72}{197})$ $+ \frac{1}{197}\sqrt{10721}e^2 \otimes e_4 + \frac{1}{197}\sqrt{14413}e^1 \otimes e_3$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}
831:7	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{3}{115}\sqrt{1430}e^{13} + \frac{2}{115}\sqrt{429}e^{24}, \frac{4}{115}\sqrt{143}e^{16}$	$(-\frac{2}{23}, \frac{33}{115}, \frac{14}{23}, \frac{27}{115}, -\frac{73}{115}, \frac{5}{23}, \frac{12}{115}, \frac{13}{115})$ $+ \frac{2}{115}\sqrt{6721}e^3 \otimes e_5$	{12368, 1245678, 134, 157, 23478, 258, 367, 456}
831:7	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{7}e^{12}, \frac{14}{41}\sqrt{3}e^{13} + \frac{12}{41}\sqrt{7}e^{24}, \frac{2}{41}\sqrt{105}e^{16}$	$(-\frac{2}{41}, \frac{17}{41}, \frac{15}{41}, -\frac{4}{41}, -\frac{25}{41}, \frac{15}{41}, \frac{13}{41}, \frac{13}{41})$ $+ \frac{6}{41}\sqrt{77}e^2 \otimes e_5$	{12378, 1248, 134567, 156, 23468, 2678, 35, 457}
831:7	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{160358}e^{12}, \frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{2442}e^{24}, \frac{14}{487}\sqrt{814}e^{16}$	$(\frac{195}{487}, -\frac{107}{487}, -\frac{212}{487}, \frac{90}{487}, \frac{87}{487}, \frac{88}{487}, -\frac{17}{487}, \frac{283}{487})$ $+ \frac{20}{487}\sqrt{814}e^1 \otimes e_3$	{1258, 128, 1456, 146, 23568, 2368, 34, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:7	$0, 0, 0, 0, 0, \frac{18}{1469}\sqrt{543}e^{12}, \frac{18}{1469}\sqrt{951}e^{13} + \frac{18}{1469}\sqrt{1605}e^{24},$ $\frac{18}{1469}\sqrt{1185}e^{16}$	$(-\frac{99}{1469}, \frac{45}{1469}, \frac{477}{1469}, \frac{333}{1469}, -\frac{441}{1469}, -\frac{54}{1469}, \frac{378}{1469}, -\frac{153}{1469})$ $+ \frac{108}{1469}\sqrt{59}e^4 \otimes e_8 + \frac{18}{1469}\sqrt{1803}e^2 \otimes e_5$	{12378, 134567, 2678, 457}
831:8	$0, 0, 0, 0, 0, \frac{1}{167}\sqrt{7638}e^{12}, \frac{3}{167}\sqrt{2814}e^{34}, \frac{2}{167}\sqrt{2211}e^{13} + \frac{1}{167}\sqrt{7638}e^{26}$	$(\frac{38}{167}, -\frac{3}{167}, -\frac{6}{167}, -\frac{28}{167}, 1, \frac{35}{167}, -\frac{34}{167}, \frac{32}{167})$ $+ \frac{6}{167}\sqrt{1474}e^5 \otimes e_7$	{123458, 12378, 134568, 13678, 23456, 2367, 345, 37}
831:8	$0, 0, 0, 0, 0, \frac{12}{85}\sqrt{33}e^{12}, \frac{2}{85}\sqrt{429}e^{34}, \frac{2}{85}\sqrt{759}e^{13} + \frac{12}{85}\sqrt{33}e^{26}$	$(\frac{3}{85}, \frac{13}{85}, \frac{26}{85}, \frac{3}{85}, -\frac{53}{85}, \frac{16}{85}, \frac{29}{85}, \frac{29}{85})$ $+ \frac{6}{85}\sqrt{253}e^2 \otimes e_5$	{12348, 12378, 134568, 135678, 2346, 2367, 345, 357}
831:8	$0, 0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{3}{19}\sqrt{5}e^{34}, \frac{6}{19}\sqrt{2}e^{13} + \frac{3}{19}\sqrt{5}e^{26}$	$(\frac{4}{19}, -\frac{2}{19}, -\frac{4}{19}, \frac{9}{19}, -\frac{5}{19}, \frac{2}{19}, \frac{5}{19}, 0)$ $+ \frac{3}{19}\sqrt{15}e^1 \otimes e_5 + \frac{9}{19}\sqrt{2}e^4 \otimes e_8$	{128, 168, 24567, 457}
831:8	$0, 0, 0, 0, 0, \frac{6}{823}\sqrt{1615}e^{12}, \frac{5}{823}\sqrt{4902}e^{34},$ $\frac{2}{823}\sqrt{25365}e^{13} + \frac{2}{823}\sqrt{3990}e^{26}$	$(\frac{204}{823}, \frac{20}{823}, \frac{40}{823}, -\frac{121}{823}, -\frac{245}{823}, \frac{224}{823}, -\frac{81}{823}, \frac{244}{823})$ $+ \frac{30}{823}\sqrt{247}e^1 \otimes e_7 + \frac{3}{823}\sqrt{21470}e^3 \otimes e_5$	{1234, 1346, 23678, 378}
831:8	$0, 0, 0, 0, 0, \frac{30}{41}e^{12}, \frac{3}{41}\sqrt{10}e^{34}, \frac{3}{41}\sqrt{110}e^{13} + \frac{3}{41}\sqrt{10}e^{26}$	$(\frac{20}{41}, -\frac{1}{41}, -\frac{2}{41}, \frac{9}{41}, -\frac{25}{41}, \frac{19}{41}, \frac{7}{41}, \frac{18}{41})$ $+ \frac{3}{41}\sqrt{330}e^1 \otimes e_5$	{123, 12347, 13467, 136, 2345678, 23568, 34578, 358}
831:8	$0, 0, 0, 0, 0, \frac{120}{1349}\sqrt{19}e^{12}, \frac{30}{1349}\sqrt{281}e^{34},$ $\frac{30}{1349}\sqrt{115}e^{13} + \frac{60}{1349}\sqrt{122}e^{26}$	$(-\frac{13}{1349}, \frac{5}{1349}, \frac{10}{1349}, \frac{447}{1349}, -\frac{445}{1349}, -\frac{8}{1349}, \frac{457}{1349}, -\frac{3}{1349})$ $+ \frac{60}{1349}\sqrt{138}e^4 \otimes e_8 + \frac{90}{1349}\sqrt{69}e^2 \otimes e_5$	{12378, 135678, 2346, 345}
831:8	$0, 0, 0, 0, 0, \frac{6}{173}\sqrt{34}e^{12}, \frac{30}{173}\sqrt{17}e^{34}, \frac{3}{173}\sqrt{782}e^{13} + \frac{30}{173}\sqrt{17}e^{26}$	$(\frac{8}{173}, -\frac{19}{173}, -\frac{38}{173}, \frac{123}{173}, \frac{35}{173}, -\frac{11}{173}, \frac{85}{173}, -\frac{30}{173})$ $+ \frac{6}{173}\sqrt{1173}e^4 \otimes e_8$	{1258, 128, 1568, 168, 24567, 2467, 457, 47}
831:8	$0, 0, 0, 0, 0, \frac{4}{55}\sqrt{6}e^{12}, \frac{12}{55}\sqrt{6}e^{34}, \frac{4}{55}\sqrt{3}e^{13} + \frac{4}{55}\sqrt{33}e^{26}$	$(\frac{4}{55}, -\frac{6}{55}, -\frac{12}{55}, \frac{16}{55}, \frac{28}{55}, -\frac{2}{55}, \frac{4}{55}, -\frac{8}{55})$ $+ \frac{12}{55}\sqrt{7}e^5 \otimes e_7 + \frac{36}{55}e^4 \otimes e_8$	{1258, 1568, 2467, 47}
831:8	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{30}{41}e^{34}, \frac{3}{41}\sqrt{110}e^{13} + \frac{3}{41}\sqrt{10}e^{26}$	$(-\frac{2}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{2}{41}, -\frac{25}{41}, \frac{8}{41}, \frac{18}{41}, \frac{18}{41})$ $+ \frac{3}{41}\sqrt{330}e^3 \otimes e_5$	{1245678, 12568, 14578, 158, 2457, 25, 4567, 56}
831:8	$0, 0, 0, 0, 0, \frac{3}{19}\sqrt{5}e^{12}, \frac{3}{19}\sqrt{5}e^{34}, \frac{6}{19}\sqrt{2}e^{13} + \frac{6}{19}e^{26}$	$(\frac{5}{19}, -\frac{2}{19}, -\frac{4}{19}, 0, \frac{10}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{1}{19})$ $+ \frac{3}{19}\sqrt{15}e^5 \otimes e_8 + \frac{9}{19}\sqrt{2}e^1 \otimes e_7$	{128, 168, 24567, 457}
831:8	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{3}{10}\sqrt{2}e^{34}, \frac{2}{5}e^{13} + \frac{1}{5}\sqrt{5}e^{26}$	$(\frac{1}{10}, 0, 0, -\frac{1}{5}, \frac{3}{10}, \frac{1}{10}, -\frac{1}{5}, \frac{1}{10})$ $+ \frac{1}{10}\sqrt{6}e^5 \otimes e_8 + \frac{1}{5}e^3 \otimes e_4 + \frac{2}{5}\sqrt{2}e^2 \otimes e_7$	{12348, 23456}
831:8	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{57}e^{12}, \frac{4}{77}\sqrt{57}e^{34}, \frac{8}{77}\sqrt{11}e^{13} + \frac{4}{77}\sqrt{66}e^{26}$	$(\frac{4}{77}, \frac{2}{77}, \frac{4}{77}, -\frac{18}{77}, \frac{24}{77}, \frac{6}{77}, -\frac{2}{11}, \frac{8}{77})$ $+ \frac{12}{77}\sqrt{3}e^5 \otimes e_8 + \frac{4}{77}\sqrt{106}e^2 \otimes e_7$	{12348, 13678, 23456, 357}
831:8	$0, 0, 0, 0, 0, \frac{60}{1349}\sqrt{122}e^{12}, \frac{30}{1349}\sqrt{281}e^{34},$ $\frac{30}{1349}\sqrt{115}e^{13} + \frac{120}{1349}\sqrt{19}e^{26}$	$(\frac{5}{19}, \frac{5}{1349}, \frac{10}{1349}, -\frac{105}{1349}, -\frac{445}{1349}, \frac{360}{1349}, -\frac{5}{71}, \frac{365}{1349})$ $+ \frac{60}{1349}\sqrt{138}e^1 \otimes e_7 + \frac{90}{1349}\sqrt{69}e^2 \otimes e_5$	{12348, 134568, 2367, 357}
831:8	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{1679}e^{12}, \frac{12}{293}\sqrt{46}e^{34}, \frac{8}{293}\sqrt{69}e^{13} + \frac{4}{293}\sqrt{1679}e^{26}$	$(-\frac{19}{293}, \frac{61}{293}, \frac{122}{293}, -\frac{62}{293}, -\frac{123}{293}, \frac{42}{293}, \frac{60}{293}, \frac{103}{293})$ $+ \frac{4}{293}\sqrt{1978}e^3 \otimes e_4 + \frac{4}{293}\sqrt{3795}e^2 \otimes e_5$	{12378, 135678, 2367, 357}
831:8	$0, 0, 0, 0, 0, \frac{2}{443}\sqrt{690}e^{12}, \frac{2}{443}\sqrt{915}e^{34}, \frac{2}{443}\sqrt{530}e^{13} + \frac{2}{443}\sqrt{915}e^{26}$	$(\frac{19}{443}, -\frac{13}{443}, -\frac{26}{443}, \frac{3}{443}, \frac{51}{443}, \frac{6}{443}, -\frac{23}{443}, -\frac{7}{443})$ $+ \frac{2}{443}\sqrt{1285}e^2 \otimes e_7 + \frac{30}{443}\sqrt{3}e^4 \otimes e_8$	{135678, 13678, 23456, 2346}
831:8	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{33}e^{12}, \frac{6}{79}\sqrt{30}e^{34}, \frac{2}{79}\sqrt{138}e^{13} + \frac{4}{79}\sqrt{33}e^{26}$	$(\frac{22}{79}, -\frac{12}{79}, -\frac{24}{79}, \frac{22}{79}, \frac{10}{79}, \frac{10}{79}, -\frac{2}{79}, -\frac{2}{79})$ $+ \frac{6}{79}\sqrt{46}e^1 \otimes e_7 - \frac{6}{79}\sqrt{46}e^4 \otimes e_8$	{1258, 128, 1568, 168, 24567, 2467, 457, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:8	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{33}e^{12}, \frac{6}{79}\sqrt{30}e^{34}, \frac{2}{79}\sqrt{138}e^{13} + \frac{4}{79}\sqrt{33}e^{26}$	$(\frac{22}{79}, -\frac{12}{79}, -\frac{24}{79}, \frac{22}{79}, \frac{10}{79}, \frac{10}{79}, -\frac{2}{79}, -\frac{2}{79})$ $+ \frac{6}{79}\sqrt{46}e^1 \otimes e_7 + \frac{6}{79}\sqrt{46}e^4 \otimes e_8$	{1258, 128, 1568, 168, 24567, 2467, 457, 47}
831:8	$0, 0, 0, 0, 0, \frac{3}{19}\sqrt{10}e^{12}, \frac{3}{19}\sqrt{10}e^{34}, \frac{4}{19}\sqrt{5}e^{13} + \frac{3}{19}\sqrt{10}e^{26}$	$(\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, -\frac{6}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{4}{19})$ $+ \frac{4}{19}\sqrt{10}e^2 \otimes e_7$	{123458, 12348, 135678, 13678, 23456, 2346, 357, 37}
831:8	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{57}e^{12}, \frac{4}{77}\sqrt{66}e^{34}, \frac{8}{77}\sqrt{11}e^{13} + \frac{4}{77}\sqrt{57}e^{26}$	$(\frac{4}{77}, \frac{13}{154}, \frac{13}{77}, -\frac{45}{154}, -\frac{3}{77}, \frac{3}{77}, -\frac{19}{154}, \frac{17}{77})$ $+ \frac{12}{77}\sqrt{3}e^3 \otimes e_5 + \frac{4}{77}\sqrt{106}e^2 \otimes e_7$	{12348, 13678, 2346, 37}
831:8	$0, 0, 0, 0, 0, \frac{2}{407}\sqrt{447}e^{12}, \frac{4}{407}\sqrt{2086}e^{34}, \frac{4}{407}\sqrt{2235}e^{13} + \frac{2}{407}\sqrt{447}e^{26}$	$(-\frac{6}{407}, \frac{57}{407}, \frac{114}{407}, -\frac{184}{407}, \frac{228}{407}, \frac{51}{407}, -\frac{70}{407}, \frac{108}{407})$ $+ \frac{2}{407}\sqrt{26373}e^5 \otimes e_7 + \frac{2}{407}\sqrt{26671}e^3 \otimes e_4$	{124678, 1478, 247, 467}
831:8	$0, 0, 0, 0, 0, \frac{10}{271}\sqrt{15}e^{12}, \frac{10}{271}\sqrt{15}e^{34}, \frac{45}{271}\sqrt{6}e^{13} + \frac{20}{271}\sqrt{3}e^{26}$	$(\frac{20}{271}, \frac{5}{271}, \frac{10}{271}, -\frac{65}{271}, \frac{105}{271}, \frac{25}{271}, -\frac{55}{271}, \frac{30}{271})$ $+ \frac{10}{271}\sqrt{123}e^5 \otimes e_8 + \frac{20}{271}\sqrt{33}e^1 \otimes e_7 + \frac{30}{271}\sqrt{13}e^3 \otimes e_4$	{24567, 457}
831:8	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{8}\sqrt{6}e^{34}, \frac{1}{4}\sqrt{6}e^{13} + \frac{1}{8}\sqrt{6}e^{26}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{4}, -\frac{3}{8}, \frac{1}{4}, 0, \frac{3}{8})$ $+ \frac{1}{4}\sqrt{7}e^3 \otimes e_4 + \frac{1}{8}\sqrt{30}e^1 \otimes e_5$	{123, 136, 23568, 358}
831:8	$0, 0, 0, 0, 0, \frac{1}{167}\sqrt{7638}e^{12}, \frac{3}{167}\sqrt{2814}e^{34}, \frac{2}{167}\sqrt{2211}e^{13} + \frac{1}{167}\sqrt{7638}e^{26}$	$(\frac{38}{167}, -\frac{3}{167}, -\frac{6}{167}, \frac{104}{167}, -\frac{97}{167}, \frac{35}{167}, \frac{98}{167}, \frac{32}{167})$ $+ \frac{6}{167}\sqrt{1474}e^4 \otimes e_5$	{12348, 123578, 13468, 135678, 2346, 23567, 34, 357}
831:8	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{4}{17}\sqrt{5}e^{34}, \frac{4}{17}\sqrt{5}e^{13} + \frac{4}{17}\sqrt{5}e^{26}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{34}e^2 \otimes e_7 + \frac{2}{17}\sqrt{6}e^3 \otimes e_4$	{123458, 12348, 23456, 2346}
831:8	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{14}e^{12}, \frac{2}{17}\sqrt{14}e^{34}, \frac{7}{17}\sqrt{6}e^{13} + \frac{2}{17}\sqrt{14}e^{26}$	$(-\frac{8}{51}, \frac{1}{3}, \frac{2}{3}, -\frac{29}{51}, \frac{3}{17}, \frac{3}{17}, \frac{5}{51}, \frac{26}{51})$ $+ \frac{14}{17}\sqrt{3}e^3 \otimes e_4$	{124568, 12468, 1458, 148, 24, 245, 456, 46}
831:8	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{3}{41}\sqrt{10}e^{34}, \frac{3}{41}\sqrt{110}e^{13} + \frac{30}{41}e^{26}$	$(-\frac{2}{41}, -\frac{1}{41}, -\frac{2}{41}, \frac{9}{41}, 1, -\frac{3}{41}, \frac{7}{41}, -\frac{4}{41})$ $+ \frac{3}{41}\sqrt{330}e^5 \otimes e_8$	{1234567, 12356, 13457, 135, 23478, 238, 34678, 368}
831:8	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{1469}e^{12}, \frac{2}{229}\sqrt{1469}e^{34}, \frac{3}{229}\sqrt{1582}e^{13} + \frac{2}{229}\sqrt{678}e^{26}$	$(\frac{52}{229}, \frac{13}{229}, \frac{26}{229}, -\frac{87}{229}, \frac{27}{229}, \frac{65}{229}, -\frac{61}{229}, \frac{78}{229})$ $+ \frac{2}{229}\sqrt{6441}e^1 \otimes e_7 + \frac{4}{229}\sqrt{1243}e^3 \otimes e_4$	{235678, 23678, 3578, 378}
831:8	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{12}, \frac{1}{8}\sqrt{6}e^{34}, \frac{1}{4}\sqrt{6}e^{13} + \frac{1}{4}e^{26}$	$(-\frac{3}{16}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{4}, \frac{9}{16}, -\frac{1}{16}, 0, \frac{1}{16})$ $+ \frac{1}{4}\sqrt{7}e^3 \otimes e_4 + \frac{1}{8}\sqrt{30}e^5 \otimes e_8$	{12356, 135, 238, 368}
831:8	$0, 0, 0, 0, 0, \frac{30}{173}\sqrt{17}e^{12}, \frac{30}{173}\sqrt{17}e^{34}, \frac{3}{173}\sqrt{782}e^{13} + \frac{6}{173}\sqrt{34}e^{26}$	$(\frac{100}{173}, -\frac{19}{173}, -\frac{38}{173}, -\frac{15}{173}, \frac{35}{173}, \frac{81}{173}, -\frac{53}{173}, \frac{62}{173})$ $+ \frac{6}{173}\sqrt{1173}e^1 \otimes e_7$	{1258, 128, 1568, 168, 24567, 2467, 457, 47}
831:8	$0, 0, 0, 0, 0, \frac{4}{55}\sqrt{33}e^{12}, \frac{12}{55}\sqrt{6}e^{34}, \frac{4}{55}\sqrt{3}e^{13} + \frac{4}{55}\sqrt{6}e^{26}$	$(\frac{2}{5}, -\frac{6}{55}, -\frac{12}{55}, \frac{2}{11}, -\frac{14}{55}, \frac{16}{55}, -\frac{2}{55}, \frac{2}{11})$ $+ \frac{12}{55}\sqrt{7}e^4 \otimes e_5 + \frac{36}{55}e^1 \otimes e_7$	{1258, 1568, 2467, 47}
831:8	$0, 0, 0, 0, 0, \frac{2}{823}\sqrt{3990}e^{12}, \frac{5}{823}\sqrt{4902}e^{34}, \frac{2}{823}\sqrt{25365}e^{13} + \frac{6}{823}\sqrt{1615}e^{26}$	$(-\frac{56}{823}, \frac{20}{823}, \frac{40}{823}, \frac{269}{823}, -\frac{245}{823}, -\frac{36}{823}, \frac{309}{823}, -\frac{16}{823})$ $+ \frac{30}{823}\sqrt{247}e^4 \otimes e_8 + \frac{3}{823}\sqrt{21470}e^3 \otimes e_5$	{12346, 134, 2378, 3678}
831:8	$0, 0, 0, 0, 0, \frac{4}{241}\sqrt{187}e^{12}, \frac{1}{241}\sqrt{3706}e^{34}, \frac{2}{241}\sqrt{731}e^{13} + \frac{4}{241}\sqrt{187}e^{26}$	$(\frac{25}{241}, \frac{2}{241}, \frac{4}{241}, -\frac{19}{241}, -\frac{36}{241}, \frac{27}{241}, -\frac{15}{241}, \frac{29}{241})$ $+ \frac{1}{241}\sqrt{5134}e^2 \otimes e_7 + \frac{3}{241}\sqrt{238}e^4 \otimes e_5$	{12348, 135678, 2346, 357}
831:8	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{66}e^{12}, \frac{4}{77}\sqrt{57}e^{34}, \frac{8}{77}\sqrt{11}e^{13} + \frac{4}{77}\sqrt{57}e^{26}$	$(\frac{13}{77}, \frac{2}{77}, \frac{4}{77}, -\frac{18}{77}, -\frac{3}{77}, \frac{15}{77}, -\frac{2}{11}, \frac{17}{77})$ $+ \frac{12}{77}\sqrt{3}e^1 \otimes e_5 + \frac{4}{77}\sqrt{106}e^2 \otimes e_7$	{12348, 13678, 23456, 357}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:9	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{9042}e^{12}, \frac{1}{377}\sqrt{822}e^{34}, \frac{2}{377}\sqrt{7261}e^{16} + \frac{6}{377}\sqrt{822}e^{35}$	$(\frac{287}{754}, -\frac{9}{26}, \frac{161}{377}, -\frac{113}{377}, -\frac{9}{754}, \frac{1}{29}, \frac{48}{377}, \frac{313}{754})$ $+ \frac{1}{377}\sqrt{89598}e^1 \otimes e_2 + \frac{4}{377}\sqrt{5617}e^3 \otimes e_4$	{1356, 146, 2368, 24568}
831:9	$0, 0, 0, 0, 0, \frac{1}{201}\sqrt{13534}e^{12}, \frac{3}{67}\sqrt{202}e^{34}, \frac{3}{67}\sqrt{202}e^{16} + \frac{2}{201}\sqrt{2121}e^{35}$	$(\frac{53}{201}, -\frac{31}{201}, -\frac{1}{67}, -\frac{15}{67}, \frac{26}{67}, \frac{22}{201}, -\frac{16}{67}, \frac{25}{67})$ $+ \frac{1}{201}\sqrt{33330}e^1 \otimes e_7$	{123458, 128, 1346, 156, 235678, 24678, 37, 457}
831:9	$0, 0, 0, 0, 0, \frac{12}{1553}\sqrt{1018}e^{12}, \frac{6}{1553}\sqrt{14761}e^{34},$ $\frac{4}{1553}\sqrt{29522}e^{16} + \frac{2}{1553}\sqrt{73805}e^{35}$	$(\frac{537}{1553}, -\frac{481}{1553}, -\frac{190}{1553}, -\frac{45}{1553}, \frac{783}{1553}, \frac{56}{1553}, -\frac{235}{1553}, \frac{593}{1553})$ $+ \frac{4}{1553}\sqrt{90602}e^5 \otimes e_7 + \frac{50}{1553}\sqrt{509}e^1 \otimes e_2$	{13456, 1467, 23678, 2568}
831:9	$0, 0, 0, 0, 0, \frac{20}{1739}\sqrt{978}e^{12}, \frac{40}{1739}\sqrt{426}e^{34},$ $\frac{20}{1739}\sqrt{957}e^{16} + \frac{20}{1739}\sqrt{105}e^{35}$	$(-\frac{414}{1739}, \frac{652}{1739}, -\frac{372}{1739}, \frac{424}{1739}, \frac{196}{1739}, \frac{238}{1739}, \frac{52}{1739}, -\frac{176}{1739})$ $+ \frac{20}{1739}\sqrt{2283}e^4 \otimes e_8 + \frac{60}{1739}\sqrt{249}e^2 \otimes e_7$	{1258, 1467, 2568, 47}
831:9	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{55}e^{12}, \frac{1}{18}\sqrt{77}e^{34}, \frac{1}{18}\sqrt{286}e^{16} + \frac{1}{18}\sqrt{66}e^{35}$	$(\frac{41}{72}, -\frac{47}{72}, \frac{7}{36}, \frac{1}{9}, \frac{7}{24}, -\frac{1}{12}, \frac{11}{36}, \frac{35}{72})$ $+ \frac{1}{18}\sqrt{627}e^1 \otimes e_2$	{1346, 1367, 14567, 156, 234568, 235678, 24678, 268}
831:9	$0, 0, 0, 0, 0, \frac{6}{599}\sqrt{406}e^{12}, \frac{2}{599}\sqrt{6235}e^{34}, \frac{2}{599}\sqrt{6235}e^{16} + \frac{2}{599}\sqrt{1334}e^{35}$	$(\frac{37}{599}, -\frac{55}{599}, -\frac{98}{599}, \frac{77}{599}, \frac{117}{599}, -\frac{18}{599}, -\frac{21}{599}, \frac{19}{599})$ $+ \frac{2}{599}\sqrt{6409}e^4 \otimes e_8 + \frac{2}{599}\sqrt{8903}e^1 \otimes e_7$	{128, 1346, 235678, 457}
831:9	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{1239}e^{12}, \frac{2}{203}\sqrt{5133}e^{34},$ $\frac{2}{203}\sqrt{5133}e^{16} + \frac{1}{203}\sqrt{10266}e^{35}$	$(-\frac{30}{203}, \frac{4}{29}, -\frac{45}{203}, \frac{5}{7}, \frac{13}{203}, -\frac{2}{203}, \frac{100}{203}, -\frac{32}{203})$ $+ \frac{1}{203}\sqrt{56994}e^4 \otimes e_8$	{12378, 1258, 13456, 1467, 23678, 2568, 345, 47}
831:9	$0, 0, 0, 0, 0, \frac{72}{373}e^{12}, \frac{18}{373}\sqrt{73}e^{34}, \frac{36}{373}\sqrt{30}e^{16} + \frac{18}{373}\sqrt{13}e^{35}$	$(\frac{53}{373}, -\frac{109}{373}, -\frac{38}{373}, \frac{159}{373}, \frac{35}{373}, -\frac{56}{373}, \frac{121}{373}, -\frac{3}{373})$ $+ \frac{18}{373}\sqrt{141}e^1 \otimes e_2 + \frac{36}{373}\sqrt{46}e^4 \otimes e_8$	{13456, 1467, 23678, 2568}
831:9	$0, 0, 0, 0, 0, \frac{72}{373}e^{12}, \frac{36}{373}\sqrt{30}e^{34}, \frac{18}{373}\sqrt{73}e^{16} + \frac{18}{373}\sqrt{13}e^{35}$	$(-\frac{41}{373}, \frac{32}{373}, \frac{56}{373}, \frac{112}{373}, -\frac{106}{373}, -\frac{9}{373}, \frac{168}{373}, -\frac{50}{373})$ $+ \frac{18}{373}\sqrt{141}e^3 \otimes e_5 + \frac{36}{373}\sqrt{46}e^4 \otimes e_8$	{12378, 1258, 23678, 2568}
831:9	$0, 0, 0, 0, 0, \frac{7}{685}\sqrt{2514}e^{12}, \frac{2}{685}\sqrt{25978}e^{34},$ $\frac{3}{685}\sqrt{838}e^{16} + \frac{1}{685}\sqrt{57822}e^{35}$	$(-\frac{12}{137}, \frac{294}{685}, \frac{147}{685}, -\frac{272}{685}, \frac{27}{685}, \frac{234}{685}, -\frac{25}{137}, \frac{174}{685})$ $+ \frac{1}{685}\sqrt{289110}e^2 \otimes e_7 + \frac{2}{685}\sqrt{51118}e^3 \otimes e_4$	{13567, 1467, 357, 47}
831:9	$0, 0, 0, 0, 0, \frac{2}{1937}\sqrt{156418}e^{12}, \frac{4}{1937}\sqrt{71063}e^{34},$ $\frac{14}{1937}\sqrt{1191}e^{16} + \frac{2}{1937}\sqrt{83767}e^{35}$	$(-\frac{311}{1937}, \frac{788}{1937}, \frac{480}{1937}, -\frac{486}{1937}, -\frac{314}{1937}, \frac{477}{1937}, -\frac{6}{1937}, \frac{166}{1937})$ $+ \frac{2}{1937}\sqrt{299735}e^3 \otimes e_5 + \frac{4}{1937}\sqrt{94486}e^2 \otimes e_7$	{1367, 14567, 37, 457}
831:9	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1374}e^{12}, \frac{1}{185}\sqrt{5038}e^{34},$ $\frac{1}{185}\sqrt{5038}e^{16} + \frac{1}{185}\sqrt{31602}e^{35}$	$(\frac{7}{37}, \frac{24}{185}, \frac{127}{185}, -\frac{102}{185}, -\frac{33}{185}, \frac{59}{185}, \frac{5}{37}, \frac{94}{185})$ $+ \frac{1}{185}\sqrt{68242}e^3 \otimes e_4$	{1235, 124, 1368, 14568, 2356, 246, 38, 458}
831:9	$0, 0, 0, 0, 0, \frac{4}{117}\sqrt{127}e^{12}, \frac{1}{117}\sqrt{7366}e^{34}, \frac{2}{117}\sqrt{127}e^{16} + \frac{2}{117}\sqrt{1905}e^{35}$	$(\frac{2}{13}, \frac{16}{117}, -\frac{35}{117}, -\frac{5}{117}, \frac{29}{39}, \frac{34}{117}, -\frac{40}{117}, \frac{4}{9})$ $+ \frac{1}{117}\sqrt{23622}e^5 \otimes e_7$	{12345, 1247, 13678, 1568, 23456, 2467, 378, 58}
831:9	$0, 0, 0, 0, 0, \frac{2}{349}\sqrt{1695}e^{12}, \frac{2}{349}\sqrt{8814}e^{34}, \frac{2}{349}\sqrt{8814}e^{16} + \frac{2}{349}\sqrt{4181}e^{35}$	$(\frac{104}{349}, -\frac{122}{349}, \frac{156}{349}, -\frac{33}{349}, -\frac{70}{349}, -\frac{18}{349}, \frac{123}{349}, \frac{86}{349})$ $+ \frac{4}{349}\sqrt{4294}e^1 \otimes e_2 + \frac{4}{349}\sqrt{4294}e^3 \otimes e_5$	{1346, 1367, 14567, 156}
831:9	$0, 0, 0, 0, 0, \frac{7}{597}\sqrt{4378}e^{12}, \frac{28}{199}\sqrt{33}e^{34}, \frac{7}{597}\sqrt{1254}e^{16} + \frac{7}{597}\sqrt{1122}e^{35}$	$(-\frac{136}{597}, \frac{2}{3}, -\frac{15}{199}, -\frac{32}{199}, \frac{57}{199}, \frac{262}{597}, -\frac{47}{199}, \frac{42}{199})$ $+ \frac{7}{199}\sqrt{1166}e^2 \otimes e_7$	{123458, 128, 1367, 14567, 234568, 268, 37, 457}
831:9	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{55}e^{12}, \frac{1}{18}\sqrt{286}e^{34}, \frac{1}{18}\sqrt{77}e^{16} + \frac{1}{18}\sqrt{66}e^{35}$	$(\frac{1}{24}, \frac{5}{36}, \frac{13}{18}, -\frac{11}{72}, -\frac{1}{2}, \frac{13}{72}, \frac{41}{72}, \frac{2}{9})$ $+ \frac{1}{18}\sqrt{627}e^3 \otimes e_5$	{1346, 1367, 14567, 156, 34, 37, 457, 5}
831:9	$0, 0, 0, 0, 0, \frac{39}{3649}\sqrt{238}e^{12}, \frac{78}{3649}\sqrt{143}e^{34},$ $\frac{195}{3649}\sqrt{10}e^{16} + \frac{39}{3649}\sqrt{1610}e^{35}$	$(\frac{936}{3649}, -\frac{585}{3649}, \frac{429}{3649}, -\frac{1092}{3649}, \frac{858}{3649}, \frac{351}{3649}, -\frac{663}{3649}, \frac{1287}{3649})$ $+ \frac{39}{3649}\sqrt{1646}e^1 \otimes e_2 + \frac{39}{3649}\sqrt{2326}e^3 \otimes e_4 + \frac{78}{3649}\sqrt{653}e^5 \otimes e_7$	{1467, 23678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:9	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{105}e^{12}, \frac{1}{122}\sqrt{2730}e^{34}, \frac{4}{61}\sqrt{21}e^{16} + \frac{7}{122}\sqrt{42}e^{35}$	$(-\frac{3}{61}, \frac{5}{61}, -\frac{21}{61}, \frac{20}{61}, \frac{20}{61}, \frac{2}{61}, -\frac{1}{61}, -\frac{1}{61})$ $+ \frac{1}{122}\sqrt{4830}e^4 \otimes e_8 - \frac{3}{122}\sqrt{462}e^5 \otimes e_7$	{12378, 1258, 13456, 1467, 23678, 2568, 345, 47}
831:9	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{105}e^{12}, \frac{1}{122}\sqrt{2730}e^{34}, \frac{4}{61}\sqrt{21}e^{16} + \frac{7}{122}\sqrt{42}e^{35}$	$(-\frac{3}{61}, \frac{5}{61}, -\frac{21}{61}, \frac{20}{61}, \frac{20}{61}, \frac{2}{61}, -\frac{1}{61}, -\frac{1}{61})$ $+ \frac{1}{122}\sqrt{4830}e^4 \otimes e_8 + \frac{3}{122}\sqrt{462}e^5 \otimes e_7$	{12378, 1258, 13456, 1467, 23678, 2568, 345, 47}
831:9	$0, 0, 0, 0, 0, \frac{12}{133}\sqrt{2}e^{12}, \frac{12}{133}\sqrt{13}e^{34}, \frac{8}{133}\sqrt{26}e^{16} + \frac{4}{133}\sqrt{65}e^{35}$	$(\frac{12}{133}, -\frac{20}{133}, -\frac{32}{133}, \frac{36}{133}, \frac{36}{133}, -\frac{8}{133}, \frac{4}{133}, \frac{4}{133})$ $+ \frac{12}{133}\sqrt{23}e^4 \otimes e_8 + \frac{4}{133}\sqrt{155}e^5 \otimes e_7 + \frac{8}{133}\sqrt{29}e^1 \otimes e_2$	{13456, 1467, 23678, 2568}
831:9	$0, 0, 0, 0, 0, \frac{12}{133}\sqrt{2}e^{12}, \frac{12}{133}\sqrt{13}e^{34}, \frac{8}{133}\sqrt{26}e^{16} + \frac{4}{133}\sqrt{65}e^{35}$	$(\frac{12}{133}, -\frac{20}{133}, -\frac{32}{133}, \frac{36}{133}, \frac{36}{133}, -\frac{8}{133}, \frac{4}{133}, \frac{4}{133})$ $+ \frac{12}{133}\sqrt{23}e^4 \otimes e_8 - \frac{4}{133}\sqrt{155}e^5 \otimes e_7 + \frac{8}{133}\sqrt{29}e^1 \otimes e_2$	{13456, 1467, 23678, 2568}
831:9	$0, 0, 0, 0, 0, \frac{2}{1853}\sqrt{33051}e^{12}, \frac{4}{1853}\sqrt{18202}e^{34},$ $\frac{6}{1853}\sqrt{7185}e^{16} + \frac{12}{1853}\sqrt{8143}e^{35}$	$(\frac{273}{1853}, \frac{138}{1853}, \frac{228}{1853}, -\frac{730}{1853}, \frac{456}{1853}, \frac{411}{1853}, -\frac{502}{1853}, \frac{684}{1853})$ $+ \frac{2}{1853}\sqrt{376015}e^3 \otimes e_4 + \frac{2}{1853}\sqrt{412419}e^5 \otimes e_7$	{1247, 13678, 2467, 378}
831:9	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{406}e^{12}, \frac{10}{63}\sqrt{7}e^{34}, \frac{1}{63}\sqrt{518}e^{16} + \frac{4}{63}\sqrt{21}e^{35}$	$(\frac{1}{6}, -\frac{1}{9}, \frac{2}{9}, -\frac{5}{18}, 0, \frac{1}{18}, -\frac{1}{18}, \frac{2}{9})$ $+ \frac{1}{63}\sqrt{546}e^3 \otimes e_5 + \frac{4}{21}\sqrt{7}e^1 \otimes e_7$	{1346, 156, 37, 457}
831:9	$0, 0, 0, 0, 0, \frac{12}{329}\sqrt{185}e^{12}, \frac{20}{329}\sqrt{74}e^{34}, \frac{20}{329}\sqrt{74}e^{16} + \frac{4}{329}\sqrt{555}e^{35}$	$(\frac{80}{329}, -\frac{39}{329}, \frac{40}{329}, -\frac{108}{329}, \frac{81}{329}, \frac{41}{329}, -\frac{68}{329}, \frac{121}{329})$ $+ \frac{2}{329}\sqrt{16206}e^1 \otimes e_7 + \frac{2}{329}\sqrt{4366}e^3 \otimes e_4$	{235678, 24678, 37, 457}
831:10	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{66}e^{12}, \frac{6}{155}\sqrt{69}e^{13} + \frac{6}{155}\sqrt{66}e^{45}, \frac{3}{155}\sqrt{402}e^{16}$	$(\frac{21}{155}, -\frac{27}{155}, -\frac{6}{155}, \frac{42}{155}, -\frac{27}{155}, -\frac{6}{155}, \frac{3}{155}, \frac{3}{155})$ $+ \frac{9}{155}\sqrt{46}e^1 \otimes e_3 + \frac{9}{155}\sqrt{46}e^4 \otimes e_8$	{128, 1456, 2368, 345}
831:10	$0, 0, 0, 0, 0, \frac{30}{1349}\sqrt{281}e^{12}, \frac{30}{1349}\sqrt{115}e^{13} + \frac{60}{1349}\sqrt{122}e^{45},$ $\frac{120}{1349}\sqrt{19}e^{16}$	$(-\frac{294}{1349}, \frac{447}{1349}, \frac{291}{1349}, \frac{309}{1349}, -\frac{312}{1349}, \frac{153}{1349}, -\frac{3}{1349}, -\frac{141}{1349})$ $+ \frac{60}{1349}\sqrt{138}e^2 \otimes e_7 + \frac{90}{1349}\sqrt{69}e^4 \otimes e_8$	{128, 13467, 2368, 47}
831:10	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{5}e^{12}, \frac{12}{47}\sqrt{2}e^{13} + \frac{6}{47}\sqrt{5}e^{45}, \frac{12}{47}e^{16}$	$(-\frac{12}{47}, \frac{18}{47}, \frac{12}{47}, -\frac{9}{47}, \frac{9}{47}, \frac{6}{47}, 0, -\frac{6}{47})$ $+ \frac{18}{47}\sqrt{2}e^2 \otimes e_7 + \frac{18}{47}e^5 \otimes e_4 + \frac{6}{47}\sqrt{15}e^3 \otimes e_8$	{347, 357}
831:10	$0, 0, 0, 0, 0, \frac{12}{85}\sqrt{33}e^{12}, \frac{2}{85}\sqrt{759}e^{13} + \frac{2}{85}\sqrt{429}e^{45}, \frac{12}{85}\sqrt{33}e^{16}$	$(\frac{36}{85}, -\frac{4}{17}, -\frac{6}{17}, \frac{3}{85}, \frac{3}{85}, \frac{16}{85}, \frac{6}{85}, \frac{52}{85})$ $+ \frac{6}{85}\sqrt{253}e^1 \otimes e_3$	{12458, 128, 1456, 16, 234568, 2368, 3, 345}
831:10	$0, 0, 0, 0, 0, \frac{3}{611}\sqrt{1730}e^{12}, \frac{15}{611}\sqrt{46}e^{13} + \frac{3}{611}\sqrt{1730}e^{45}, \frac{42}{611}\sqrt{10}e^{16}$	$(\frac{12}{611}, \frac{24}{611}, -\frac{33}{611}, -\frac{114}{611}, \frac{93}{611}, \frac{36}{611}, -\frac{21}{611}, \frac{48}{611})$ $+ \frac{6}{611}\sqrt{345}e^2 \otimes e_7 + \frac{9}{611}\sqrt{230}e^1 \otimes e_3 + \frac{9}{611}\sqrt{230}e^5 \otimes e_8$	{128, 2368}
831:10	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{10}e^{12}, \frac{6}{127}\sqrt{110}e^{13} + \frac{6}{127}\sqrt{10}e^{45}, \frac{60}{127}e^{16}$	$(-\frac{24}{127}, \frac{18}{127}, \frac{60}{127}, \frac{63}{127}, -\frac{27}{127}, -\frac{6}{127}, \frac{36}{127}, -\frac{30}{127})$ $+ \frac{6}{127}\sqrt{330}e^3 \otimes e_8 + \frac{90}{127}e^4 \otimes e_5$	{12346, 12356, 468, 568}
831:10	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{10}e^{12}, \frac{6}{127}\sqrt{110}e^{13} + \frac{6}{127}\sqrt{10}e^{45}, \frac{60}{127}e^{16}$	$(\frac{42}{127}, -\frac{48}{127}, -\frac{6}{127}, \frac{63}{127}, -\frac{27}{127}, -\frac{6}{127}, \frac{36}{127}, \frac{36}{127})$ $+ \frac{6}{127}\sqrt{330}e^1 \otimes e_2 + \frac{90}{127}e^4 \otimes e_5$	{1348, 1358, 24, 25}
831:10	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{3}{41}\sqrt{110}e^{13} + \frac{3}{41}\sqrt{10}e^{45}, \frac{30}{41}e^{16}$	$(-\frac{12}{41}, \frac{9}{41}, \frac{30}{41}, \frac{9}{41}, \frac{9}{41}, -\frac{3}{41}, \frac{18}{41}, -\frac{15}{41})$ $+ \frac{3}{41}\sqrt{330}e^3 \otimes e_8$	{12346, 14578, 178, 23457, 237, 468}
831:10	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{10}e^{12}, \frac{3}{41}\sqrt{110}e^{13} + \frac{3}{41}\sqrt{10}e^{45}, \frac{30}{41}e^{16}$	$(\frac{21}{41}, -\frac{24}{41}, -\frac{3}{41}, \frac{9}{41}, \frac{9}{41}, -\frac{3}{41}, \frac{18}{41}, \frac{18}{41})$ $+ \frac{3}{41}\sqrt{330}e^1 \otimes e_2$	{1348, 14578, 178, 23457, 237, 24}
831:10	$0, 0, 0, 0, 0, \frac{3}{73}\sqrt{30}e^{12}, \frac{6}{73}\sqrt{33}e^{13} + \frac{3}{73}\sqrt{30}e^{45}, \frac{3}{73}\sqrt{102}e^{16}$	$(\frac{6}{73}, -\frac{21}{73}, \frac{18}{73}, \frac{12}{73}, \frac{12}{73}, -\frac{15}{73}, \frac{24}{73}, -\frac{9}{73})$ $+ \frac{9}{73}\sqrt{22}e^1 \otimes e_2 + \frac{9}{73}\sqrt{22}e^3 \otimes e_8$	{14578, 178, 23457, 237}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:10	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{429}e^{12}, \frac{2}{85}\sqrt{759}e^{13} + \frac{12}{85}\sqrt{33}e^{45}, \frac{12}{85}\sqrt{33}e^{16}$	$(-\frac{2}{17}, \frac{3}{85}, \frac{39}{85}, \frac{49}{85}, -\frac{4}{17}, -\frac{7}{85}, \frac{29}{85}, -\frac{1}{5})$ $+ \frac{6}{85}\sqrt{253}e^4 \otimes e_8$	{123578, 128, 13467, 1456, 2368, 25678, 345, 47}
831:10	$0, 0, 0, 0, 0, \frac{60}{499}\sqrt{17}e^{12}, \frac{6}{499}\sqrt{782}e^{13} + \frac{60}{499}\sqrt{17}e^{45}, \frac{12}{499}\sqrt{34}e^{16}$	$(-\frac{84}{499}, \frac{246}{499}, \frac{24}{499}, \frac{123}{499}, -\frac{183}{499}, \frac{162}{499}, -\frac{60}{499}, \frac{78}{499})$ $+ \frac{12}{499}\sqrt{1173}e^2 \otimes e_7 + \frac{306}{499}e^4 \otimes e_5$	{1467, 1567, 347, 357}
831:10	$0, 0, 0, 0, 0, \frac{3}{643}\sqrt{2294}e^{12}, \frac{3}{643}\sqrt{1798}e^{13} + \frac{3}{643}\sqrt{8990}e^{45}, \frac{24}{643}\sqrt{217}e^{16}$	$(\frac{87}{643}, -\frac{192}{643}, \frac{111}{643}, \frac{261}{643}, -\frac{63}{643}, -\frac{105}{643}, \frac{198}{643}, -\frac{18}{643})$ $+ \frac{3}{643}\sqrt{14694}e^1 \otimes e_2 + \frac{54}{643}\sqrt{62}e^4 \otimes e_8$	{13467, 1456, 2368, 25678}
831:10	$0, 0, 0, 0, 0, \frac{30}{173}\sqrt{17}e^{12}, \frac{3}{173}\sqrt{782}e^{13} + \frac{30}{173}\sqrt{17}e^{45}, \frac{6}{173}\sqrt{34}e^{16}$	$(-\frac{42}{173}, \frac{123}{173}, \frac{12}{173}, -\frac{15}{173}, -\frac{15}{173}, \frac{81}{173}, -\frac{30}{173}, \frac{39}{173})$ $+ \frac{6}{173}\sqrt{1173}e^2 \otimes e_7$	{123458, 1238, 1467, 24568, 268, 347}
831:10	$0, 0, 0, 0, 0, \frac{3}{19}\sqrt{5}e^{12}, \frac{6}{19}\sqrt{2}e^{13} + \frac{3}{19}\sqrt{5}e^{45}, \frac{6}{19}e^{16}$	$(-\frac{6}{19}, \frac{9}{19}, \frac{6}{19}, 0, 0, \frac{3}{19}, 0, -\frac{3}{19})$ $+ \frac{3}{19}\sqrt{15}e^3 \otimes e_8 + \frac{9}{19}\sqrt{2}e^2 \otimes e_7$	{24568, 268, 347}
831:10	$0, 0, 0, 0, 0, \frac{60}{1349}\sqrt{122}e^{12}, \frac{30}{1349}\sqrt{115}e^{13} + \frac{30}{1349}\sqrt{281}e^{45}, \frac{120}{1349}\sqrt{19}e^{16}$	$(\frac{120}{1349}, \frac{240}{1349}, -\frac{330}{1349}, -\frac{105}{1349}, -\frac{105}{1349}, \frac{360}{1349}, -\frac{210}{1349}, \frac{480}{1349})$ $+ \frac{60}{1349}\sqrt{138}e^2 \otimes e_7 + \frac{90}{1349}\sqrt{69}e^1 \otimes e_3$	{12458, 128, 234568, 2368}
831:11	$0, 0, 0, 0, 0, \frac{1}{323}\sqrt{4326}e^{12}, \frac{1}{969}\sqrt{6798}e^{13} + \frac{4}{969}\sqrt{4017}e^{45}, \frac{1}{969}\sqrt{66538}e^{26}$	$(-\frac{2}{19}, \frac{88}{969}, \frac{29}{323}, \frac{59}{323}, -\frac{64}{323}, -\frac{14}{969}, -\frac{5}{323}, \frac{74}{969})$ $+ \frac{1}{323}\sqrt{8446}e^4 \otimes e_8 + \frac{8}{969}\sqrt{1545}e^2 \otimes e_7$	{1238, 15678, 2456, 347}
831:11	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{286}e^{12}, \frac{1}{18}\sqrt{66}e^{13} + \frac{1}{18}\sqrt{77}e^{45}, \frac{1}{18}\sqrt{55}e^{26}$	$(\frac{13}{18}, -\frac{2}{9}, -\frac{1}{2}, \frac{1}{9}, \frac{1}{9}, \frac{2}{9}, \frac{5}{18})$ $+ \frac{1}{18}\sqrt{627}e^1 \otimes e_3$	{12458, 128, 14568, 168, 23456, 236, 3, 345}
831:11	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{6}e^{13} + \frac{2}{27}\sqrt{23}e^{45}, \frac{10}{27}e^{26}$	$(\frac{2}{27}, \frac{4}{27}, -\frac{2}{9}, -\frac{2}{27}, -\frac{2}{27}, \frac{2}{9}, -\frac{4}{27}, \frac{10}{27})$ $+ \frac{2}{27}\sqrt{33}e^1 \otimes e_3 + \frac{4}{27}\sqrt{15}e^2 \otimes e_7$	{14678, 347}
831:11	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{66}e^{12}, \frac{1}{4}\sqrt{11}e^{13} + \frac{1}{24}\sqrt{66}e^{45}, \frac{1}{6}\sqrt{22}e^{26}$	$(-\frac{1}{8}, -\frac{1}{12}, \frac{5}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{5}{24}, \frac{1}{2}, -\frac{7}{24})$ $+ \frac{1}{24}\sqrt{858}e^3 \otimes e_8$	{12346, 134, 248, 468}
831:11	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{6}e^{12}, \frac{1}{6}\sqrt{3}e^{13} + \frac{1}{12}\sqrt{6}e^{45}, \frac{1}{3}e^{26}$	$(-\frac{1}{4}, \frac{1}{6}, \frac{1}{4}, 0, 0, -\frac{1}{12}, 0, \frac{1}{12})$ $+ \frac{1}{4}\sqrt{2}e^3 \otimes e_8 + \frac{1}{6}\sqrt{6}e^2 \otimes e_7$	{14678, 347}
831:11	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{34}e^{12}, \frac{2}{31}\sqrt{6}e^{13} + \frac{2}{31}\sqrt{23}e^{45}, \frac{10}{31}e^{26}$	$(\frac{2}{31}, \frac{4}{31}, -\frac{6}{31}, -\frac{6}{31}, \frac{2}{31}, \frac{6}{31}, -\frac{4}{31}, \frac{10}{31})$ $+ \frac{2}{31}\sqrt{33}e^1 \otimes e_3 + \frac{4}{31}\sqrt{15}e^2 \otimes e_7 - \frac{8}{31}e^5 \otimes e_4$	{14678, 15678, 347, 357}
831:11	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{34}e^{12}, \frac{2}{31}\sqrt{6}e^{13} + \frac{2}{31}\sqrt{23}e^{45}, \frac{10}{31}e^{26}$	$(\frac{2}{31}, \frac{4}{31}, -\frac{6}{31}, -\frac{6}{31}, \frac{2}{31}, \frac{6}{31}, -\frac{4}{31}, \frac{10}{31})$ $+ \frac{2}{31}\sqrt{33}e^1 \otimes e_3 + \frac{4}{31}\sqrt{15}e^2 \otimes e_7 + \frac{8}{31}e^5 \otimes e_4$	{14678, 15678, 347, 357}
831:11	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{438}e^{12}, \frac{1}{47}\sqrt{219}e^{13} + \frac{1}{47}\sqrt{438}e^{45}, \frac{1}{47}\sqrt{511}e^{26}$	$(\frac{6}{47}, \frac{4}{47}, \frac{9}{47}, \frac{44}{47}, -\frac{29}{47}, \frac{10}{47}, \frac{15}{47}, \frac{14}{47})$ $+ \frac{73}{47}e^4 \otimes e_5$	{12478, 12578, 14678, 15678, 23467, 23567, 347, 357}
831:11	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{870}e^{12}, \frac{1}{67}\sqrt{435}e^{13} + \frac{1}{67}\sqrt{870}e^{45}, \frac{1}{67}\sqrt{1015}e^{26}$	$(-\frac{12}{67}, \frac{20}{67}, \frac{3}{67}, \frac{10}{67}, -\frac{19}{67}, \frac{8}{67}, -\frac{9}{67}, \frac{28}{67})$ $+ \frac{29}{67}e^4 \otimes e_5 + \frac{2}{67}\sqrt{609}e^2 \otimes e_7$	{14678, 15678, 347, 357}
831:11	$0, 0, 0, 0, 0, \frac{2}{105}\sqrt{870}e^{12}, \frac{2}{105}\sqrt{435}e^{13} + \frac{2}{105}\sqrt{870}e^{45}, \frac{2}{105}\sqrt{1015}e^{26}$	$(-\frac{8}{35}, \frac{8}{21}, \frac{2}{35}, -\frac{3}{35}, -\frac{3}{35}, \frac{16}{105}, -\frac{6}{35}, \frac{8}{15})$ $+ \frac{4}{105}\sqrt{609}e^2 \otimes e_7$	{123458, 1238, 14678, 2456, 26, 347}
831:11	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{114}e^{12}, \frac{2}{127}\sqrt{6}e^{13} + \frac{2}{127}\sqrt{143}e^{45}, \frac{2}{127}\sqrt{145}e^{26}$	$(\frac{2}{127}, \frac{4}{127}, -\frac{6}{127}, -\frac{22}{127}, \frac{18}{127}, \frac{6}{127}, -\frac{4}{127}, \frac{10}{127})$ $+ \frac{2}{127}\sqrt{73}e^1 \otimes e_3 + \frac{4}{127}\sqrt{55}e^2 \otimes e_7 + \frac{8}{127}\sqrt{10}e^5 \otimes e_8$	{14678, 357}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{6}{35}\sqrt{11}e^{13} + \frac{1}{35}\sqrt{66}e^{45}, \frac{4}{35}\sqrt{22}e^{26}$	$(-\frac{3}{35}, -\frac{2}{35}, \frac{3}{7}, \frac{17}{35}, -\frac{1}{7}, -\frac{1}{7}, \frac{12}{35}, -\frac{1}{5})$ $+\frac{1}{35}\sqrt{858}e^3 \otimes e_8 + \frac{22}{35}e^4 \otimes e_5$	{12346, 12356, 134, 135, 248, 258, 468, 568}
831:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{6}{35}\sqrt{11}e^{13} + \frac{1}{35}\sqrt{66}e^{45}, \frac{4}{35}\sqrt{22}e^{26}$	$(-\frac{3}{35}, -\frac{2}{35}, \frac{3}{7}, \frac{17}{35}, -\frac{1}{7}, -\frac{1}{7}, \frac{12}{35}, -\frac{1}{5})$ $+\frac{1}{35}\sqrt{858}e^3 \otimes e_8 - \frac{22}{35}e^4 \otimes e_5$	{12346, 12356, 134, 135, 248, 258, 468, 568}
831:11	$0, 0, 0, 0, 0, \frac{7}{597}\sqrt{1254}e^{12}, \frac{7}{597}\sqrt{1122}e^{13} + \frac{28}{199}\sqrt{33}e^{45}, \frac{7}{597}\sqrt{4378}e^{26}$	$(\frac{38}{199}, -\frac{136}{597}, \frac{57}{199}, \frac{127}{199}, -\frac{32}{199}, -\frac{22}{597}, \frac{95}{199}, -\frac{158}{597})$ $+\frac{7}{199}\sqrt{1166}e^4 \otimes e_8$	{123578, 128, 135678, 168, 23456, 2467, 345, 47}
831:11	$0, 0, 0, 0, 0, \frac{3}{101}\sqrt{246}e^{12}, \frac{9}{101}\sqrt{14}e^{13} + \frac{9}{101}\sqrt{33}e^{45}, \frac{3}{101}\sqrt{255}e^{26}$	$(\frac{41}{101}, -\frac{28}{101}, -\frac{13}{101}, \frac{39}{101}, -\frac{11}{101}, \frac{13}{101}, \frac{28}{101}, -\frac{15}{101})$ $+\frac{30}{101}\sqrt{6}e^4 \otimes e_8 + \frac{3}{101}\sqrt{447}e^1 \otimes e_3$	{128, 168, 23456, 345}
831:11	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{6}e^{12}, \frac{2}{13}\sqrt{3}e^{13} + \frac{1}{13}\sqrt{6}e^{45}, \frac{4}{13}e^{26}$	$(-\frac{3}{13}, \frac{2}{13}, \frac{3}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0, \frac{1}{13})$ $+\frac{2}{13}\sqrt{6}e^2 \otimes e_7 + \frac{2}{13}e^5 \otimes e_4 + \frac{3}{13}\sqrt{2}e^3 \otimes e_8$	{14678, 15678, 347, 357}
831:11	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{6}e^{12}, \frac{2}{13}\sqrt{3}e^{13} + \frac{1}{13}\sqrt{6}e^{45}, \frac{4}{13}e^{26}$	$(-\frac{3}{13}, \frac{2}{13}, \frac{3}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0, \frac{1}{13})$ $+\frac{2}{13}\sqrt{6}e^2 \otimes e_7 - \frac{2}{13}e^5 \otimes e_4 + \frac{3}{13}\sqrt{2}e^3 \otimes e_8$	{14678, 15678, 347, 357}
831:12	$0, 0, 0, 0, 0, \frac{12}{29}e^{12}, \frac{12}{29}e^{13}, \frac{6}{29}e^{14} + \frac{6}{29}\sqrt{5}e^{26}$	$(\frac{8}{29}, -\frac{5}{29}, 0, -\frac{10}{29}, \frac{16}{29}, \frac{3}{29}, \frac{8}{29}, -\frac{2}{29})$ $+\frac{12}{29}\sqrt{3}e^5 \otimes e_8 + \frac{6}{29}\sqrt{13}e^1 \otimes e_4$	{1238, 1278, 1368, 1678}
831:12	$0, 0, 0, 0, 0, \frac{1}{328}\sqrt{15189}e^{12}, \frac{1}{328}\sqrt{15189}e^{13},$ $\frac{1}{164}\sqrt{1577}e^{14} + \frac{1}{164}\sqrt{3486}e^{26}$	$(\frac{1}{41}, \frac{77}{656}, -\frac{105}{656}, \frac{77}{328}, -\frac{75}{328}, \frac{93}{656}, -\frac{89}{656}, \frac{85}{328})$ $+\frac{1}{164}\sqrt{4731}e^1 \otimes e_5 + \frac{5}{328}\sqrt{1162}e^2 \otimes e_7$	{12348, 14678, 2456, 3457}
831:12	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{160358}e^{12}, \frac{1}{487}\sqrt{2442}e^{13},$ $\frac{1}{487}\sqrt{82214}e^{14} + \frac{14}{487}\sqrt{814}e^{26}$	$(-\frac{6}{487}, \frac{94}{487}, \frac{90}{487}, \frac{188}{487}, -\frac{313}{487}, \frac{88}{487}, \frac{84}{487}, \frac{182}{487})$ $+\frac{20}{487}\sqrt{814}e^2 \otimes e_5$	{123478, 1248, 1345678, 14568, 2346, 2467, 345, 457}
831:12	$0, 0, 0, 0, 0, \frac{3}{479}\sqrt{1970}e^{12}, \frac{3}{479}\sqrt{23246}e^{13},$ $\frac{1}{479}\sqrt{43734}e^{14} + \frac{2}{479}\sqrt{13002}e^{26}$	$(-\frac{30}{479}, \frac{66}{479}, \frac{302}{479}, \frac{132}{479}, -\frac{289}{479}, \frac{36}{479}, \frac{272}{479}, \frac{102}{479})$ $+\frac{48}{479}\sqrt{197}e^3 \otimes e_5$	{1236, 12567, 13, 157, 2378, 258, 3678, 568}
831:12	$0, 0, 0, 0, 0, \frac{2}{475}\sqrt{33198}e^{12}, \frac{2}{475}\sqrt{15593}e^{13},$ $\frac{1}{475}\sqrt{141846}e^{14} + \frac{6}{475}\sqrt{503}e^{26}$	$(\frac{264}{475}, -\frac{27}{475}, -\frac{239}{475}, -\frac{54}{475}, \frac{87}{475}, \frac{237}{475}, \frac{1}{19}, \frac{42}{95})$ $+\frac{2}{475}\sqrt{97582}e^1 \otimes e_3$	{124, 1245, 1456, 146, 234568, 23468, 3458, 348}
831:12	$0, 0, 0, 0, 0, \frac{28}{1753}\sqrt{42}e^{12}, \frac{28}{1753}\sqrt{586}e^{13},$ $\frac{28}{1753}\sqrt{47}e^{14} + \frac{28}{1753}\sqrt{267}e^{26}$	$(\frac{84}{1753}, -\frac{154}{1753}, \frac{168}{1753}, -\frac{308}{1753}, \frac{644}{1753}, -\frac{70}{1753}, \frac{252}{1753}, -\frac{224}{1753})$ $+\frac{28}{1753}\sqrt{489}e^5 \otimes e_7 + \frac{28}{1753}\sqrt{510}e^1 \otimes e_4 + \frac{28}{1753}\sqrt{599}e^3 \otimes e_8$	{23467, 347}
831:12	$0, 0, 0, 0, 0, \frac{4}{499}\sqrt{2586}e^{12}, \frac{2}{499}\sqrt{33187}e^{13},$ $\frac{1}{499}\sqrt{73270}e^{14} + \frac{2}{499}\sqrt{29739}e^{26}$	$(-\frac{96}{499}, \frac{5}{499}, \frac{345}{499}, \frac{10}{499}, \frac{95}{499}, -\frac{91}{499}, \frac{249}{499}, -\frac{86}{499})$ $+\frac{2}{499}\sqrt{87062}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 2458, 248, 4568, 468}
831:12	$0, 0, 0, 0, 0, \frac{4}{1263}\sqrt{30217}e^{12}, \frac{4}{1263}\sqrt{7303}e^{13},$ $\frac{4}{1263}\sqrt{1273}e^{14} + \frac{4}{1263}\sqrt{16549}e^{26}$	$(\frac{95}{421}, \frac{62}{1263}, -\frac{251}{1263}, \frac{124}{1263}, -\frac{158}{421}, \frac{347}{1263}, \frac{34}{1263}, \frac{409}{1263})$ $+\frac{4}{1263}\sqrt{33701}e^1 \otimes e_3 + \frac{4}{1263}\sqrt{41339}e^2 \otimes e_5$	{128, 1568, 236, 35}
831:12	$0, 0, 0, 0, 0, \frac{16}{325}\sqrt{102}e^{12}, \frac{16}{325}\sqrt{53}e^{13}, \frac{16}{325}\sqrt{34}e^{14} + \frac{16}{325}\sqrt{87}e^{26}$	$(\frac{19}{325}, \frac{38}{325}, -\frac{109}{325}, \frac{76}{325}, \frac{42}{325}, \frac{57}{325}, -\frac{18}{65}, \frac{19}{65})$ $+\frac{112}{325}\sqrt{2}e^1 \otimes e_3 + \frac{16}{325}\sqrt{185}e^2 \otimes e_7$	{145678, 14678, 3457, 347}
831:12	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{15}e^{12}, \frac{8}{61}\sqrt{15}e^{13}, \frac{8}{61}\sqrt{10}e^{14} + \frac{16}{61}\sqrt{5}e^{26}$	$(-\frac{11}{61}, \frac{15}{61}, -\frac{6}{61}, \frac{30}{61}, -\frac{2}{61}, \frac{4}{61}, -\frac{17}{61}, \frac{19}{61})$ $+\frac{8}{61}\sqrt{11}e^4 \otimes e_5 + \frac{8}{61}\sqrt{41}e^2 \otimes e_7$	{12348, 14678, 246, 347}
831:12	$0, 0, 0, 0, 0, \frac{6}{1577}\sqrt{8890}e^{12}, \frac{6}{1577}\sqrt{22606}e^{13},$ $\frac{2}{1577}\sqrt{89535}e^{14} + \frac{2}{1577}\sqrt{52197}e^{26}$	$(\frac{420}{1577}, -\frac{9}{83}, -\frac{358}{1577}, -\frac{18}{83}, \frac{824}{1577}, \frac{3}{19}, \frac{62}{1577}, \frac{78}{1577})$ $+\frac{36}{1577}\sqrt{762}e^5 \otimes e_7 + \frac{6}{1577}\sqrt{31877}e^1 \otimes e_4$	{23467, 2456, 347, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:12	$0, 0, 0, 0, 0, \frac{3}{479}\sqrt{1970}e^{12}, \frac{3}{479}\sqrt{23246}e^{13}, \frac{1}{479}\sqrt{43734}e^{14} + \frac{2}{479}\sqrt{13002}e^{26}$	$(-\frac{30}{479}, \frac{66}{479}, -\frac{82}{479}, \frac{132}{479}, 1, \frac{36}{479}, -\frac{112}{479}, \frac{102}{479}) + \frac{48}{479}\sqrt{197}e^5 \otimes e_7$	{12356, 1267, 135, 17, 2378, 258, 3678, 568}
831:12	$0, 0, 0, 0, 0, \frac{45}{721}\sqrt{26}e^{12}, \frac{3}{721}\sqrt{6942}e^{13}, \frac{108}{721}\sqrt{13}e^{14} + \frac{3}{721}\sqrt{4602}e^{26}$	$(-\frac{150}{721}, \frac{96}{721}, -\frac{9}{721}, \frac{192}{721}, \frac{393}{721}, -\frac{54}{721}, -\frac{159}{721}, \frac{6}{721}, \frac{103}{721}) + \frac{12}{721}\sqrt{1599}e^4 \otimes e_7 + \frac{3}{721}\sqrt{24414}e^5 \otimes e_8$	{123456, 1345, 248, 468}
831:12	$0, 0, 0, 0, 0, \frac{23}{2111}\sqrt{894}e^{12}, \frac{23}{2111}\sqrt{390}e^{13}, \frac{184}{2111}e^{14} + \frac{115}{2111}\sqrt{42}e^{26}$	$(\frac{46}{2111}, \frac{92}{2111}, -\frac{483}{2111}, \frac{184}{2111}, \frac{759}{2111}, \frac{138}{2111}, -\frac{437}{2111}, \frac{230}{2111}) + \frac{23}{2111}\sqrt{1086}e^5 \otimes e_8 + \frac{276}{2111}\sqrt{7}e^1 \otimes e_3 + \frac{92}{2111}\sqrt{106}e^2 \otimes e_7$	{1678, 357}
831:12	$0, 0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{1}{19}\sqrt{51}e^{13}, \frac{4}{19}\sqrt{6}e^{14} + \frac{1}{19}\sqrt{39}e^{26}$	$(-\frac{4}{19}, \frac{2}{19}, \frac{9}{19}, \frac{4}{19}, -\frac{5}{19}, -\frac{2}{19}, \frac{5}{19}, 0) + \frac{1}{19}\sqrt{129}e^4 \otimes e_5 + \frac{1}{19}\sqrt{174}e^3 \otimes e_8$	{12346, 134, 248, 468}
831:12	$0, 0, 0, 0, 0, \frac{6}{751}\sqrt{290}e^{12}, \frac{3}{751}\sqrt{11310}e^{13}, \frac{6}{751}\sqrt{2117}e^{14} + \frac{42}{751}\sqrt{29}e^{26}$	$(\frac{40}{751}, -\frac{28}{751}, \frac{245}{751}, -\frac{56}{751}, -\frac{221}{751}, \frac{12}{751}, \frac{285}{751}, -\frac{16}{751}) + \frac{30}{751}\sqrt{203}e^3 \otimes e_8 + \frac{3}{751}\sqrt{18038}e^1 \otimes e_5$	{1278, 1678, 23567, 357}
831:12	$0, 0, 0, 0, 0, \frac{20}{1399}\sqrt{538}e^{12}, \frac{40}{1399}\sqrt{246}e^{13}, \frac{40}{1399}\sqrt{173}e^{14} + \frac{20}{1399}\sqrt{866}e^{26}$	$(-\frac{259}{1399}, \frac{251}{1399}, \frac{110}{1399}, \frac{502}{1399}, -\frac{290}{1399}, -\frac{8}{1399}, -\frac{149}{1399}, \frac{243}{1399}) + \frac{20}{1399}\sqrt{1594}e^2 \otimes e_7 + \frac{40}{1399}\sqrt{223}e^3 \otimes e_5$	{12348, 145678, 2456, 347}
831:12	$0, 0, 0, 0, 0, \frac{8}{443}\sqrt{190}e^{12}, \frac{4}{443}\sqrt{3230}e^{13}, \frac{2}{443}\sqrt{285}e^{14} + \frac{2}{443}\sqrt{8265}e^{26}$	$(\frac{64}{443}, -\frac{63}{443}, \frac{128}{443}, -\frac{126}{443}, \frac{56}{443}, \frac{1}{443}, \frac{192}{443}, -\frac{62}{443}) + \frac{2}{443}\sqrt{17005}e^1 \otimes e_4 + \frac{8}{443}\sqrt{1235}e^3 \otimes e_8$	{12578, 1278, 15678, 1678}
831:12	$0, 0, 0, 0, 0, \frac{5}{269}\sqrt{30}e^{12}, \frac{5}{269}\sqrt{30}e^{13}, \frac{30}{269}\sqrt{14}e^{14} + \frac{5}{269}\sqrt{42}e^{26}$	$(\frac{10}{269}, \frac{10}{269}, -\frac{65}{269}, \frac{20}{269}, \frac{105}{269}, \frac{20}{269}, -\frac{55}{269}, \frac{30}{269}) + \frac{10}{269}\sqrt{123}e^1 \otimes e_3 - \frac{10}{269}\sqrt{123}e^4 \otimes e_7 + \frac{5}{269}\sqrt{498}e^5 \otimes e_8$	{1278, 1678, 23567, 357}
831:12	$0, 0, 0, 0, 0, \frac{5}{269}\sqrt{30}e^{12}, \frac{5}{269}\sqrt{30}e^{13}, \frac{30}{269}\sqrt{14}e^{14} + \frac{5}{269}\sqrt{42}e^{26}$	$(\frac{10}{269}, \frac{10}{269}, -\frac{65}{269}, \frac{20}{269}, \frac{105}{269}, \frac{20}{269}, -\frac{55}{269}, \frac{30}{269}) + \frac{10}{269}\sqrt{123}e^1 \otimes e_3 + \frac{10}{269}\sqrt{123}e^4 \otimes e_7 + \frac{5}{269}\sqrt{498}e^5 \otimes e_8$	{1278, 1678, 23567, 357}
831:12	$0, 0, 0, 0, 0, \frac{6}{1577}\sqrt{8890}e^{12}, \frac{6}{1577}\sqrt{22606}e^{13}, \frac{2}{1577}\sqrt{89535}e^{14} + \frac{2}{1577}\sqrt{52197}e^{26}$	$(\frac{420}{1577}, -\frac{9}{83}, \frac{290}{1577}, -\frac{18}{83}, -\frac{472}{1577}, \frac{3}{19}, \frac{710}{1577}, \frac{78}{1577}) + \frac{36}{1577}\sqrt{762}e^3 \otimes e_5 + \frac{6}{1577}\sqrt{31877}e^1 \otimes e_4$	{23467, 2456, 347, 45}
831:12	$0, 0, 0, 0, 0, \frac{9}{124}\sqrt{71}e^{12}, \frac{9}{124}\sqrt{71}e^{13}, \frac{1}{62}\sqrt{1349}e^{14} + \frac{3}{62}\sqrt{213}e^{26}$	$(-\frac{11}{62}, \frac{59}{248}, -\frac{39}{248}, \frac{59}{124}, \frac{21}{124}, \frac{15}{248}, -\frac{83}{248}, \frac{37}{124}) + \frac{1}{124}\sqrt{14626}e^2 \otimes e_7$	{123458, 12348, 145678, 14678, 2456, 246, 3457, 347}
831:12	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{134}e^{12}, \frac{1}{61}\sqrt{134}e^{13}, \frac{4}{61}\sqrt{134}e^{14} + \frac{1}{61}\sqrt{2010}e^{26}$	$(-\frac{2}{61}, -\frac{2}{61}, \frac{13}{61}, -\frac{4}{61}, 1, -\frac{4}{61}, \frac{11}{61}, -\frac{6}{61}) + \frac{7}{61}\sqrt{134}e^5 \otimes e_8$	{1234567, 12456, 13457, 145, 2348, 2478, 3468, 4678}
831:12	$0, 0, 0, 0, 0, \frac{118}{397}e^{12}, \frac{1}{397}\sqrt{28202}e^{13}, \frac{1}{397}\sqrt{23010}e^{14} + \frac{4}{397}\sqrt{649}e^{26}$	$(-\frac{118}{397}, \frac{55}{397}, \frac{110}{397}, \frac{110}{397}, \frac{40}{397}, -\frac{63}{397}, -\frac{8}{397}, -\frac{8}{397}) - \frac{1}{397}\sqrt{39530}e^4 \otimes e_7 + \frac{1}{397}\sqrt{44722}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 2458, 248, 4568, 468}
831:12	$0, 0, 0, 0, 0, \frac{118}{397}e^{12}, \frac{1}{397}\sqrt{28202}e^{13}, \frac{1}{397}\sqrt{23010}e^{14} + \frac{4}{397}\sqrt{649}e^{26}$	$(-\frac{118}{397}, \frac{55}{397}, \frac{110}{397}, \frac{110}{397}, \frac{40}{397}, -\frac{63}{397}, -\frac{8}{397}, -\frac{8}{397}) + \frac{1}{397}\sqrt{39530}e^4 \otimes e_7 + \frac{1}{397}\sqrt{44722}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 2458, 248, 4568, 468}
831:12	$0, 0, 0, 0, 0, \frac{1}{283}\sqrt{11514}e^{12}, \frac{1}{283}\sqrt{11514}e^{13}, \frac{8}{283}\sqrt{101}e^{14} + \frac{1}{283}\sqrt{21210}e^{26}$	$(-\frac{46}{283}, \frac{34}{283}, -\frac{21}{283}, \frac{68}{283}, \frac{123}{283}, -\frac{12}{283}, -\frac{67}{283}, \frac{22}{283}) + \frac{1}{283}\sqrt{17574}e^5 \otimes e_8 + \frac{8}{283}\sqrt{505}e^2 \otimes e_7$	{12348, 14678, 2456, 3457}
831:12	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{7}e^{12}, \frac{12}{41}\sqrt{7}e^{13}, \frac{14}{41}\sqrt{3}e^{14} + \frac{2}{41}\sqrt{105}e^{26}$	$(\frac{24}{41}, -\frac{9}{41}, -\frac{4}{41}, -\frac{18}{41}, \frac{8}{41}, \frac{15}{41}, \frac{20}{41}, \frac{6}{41}) + \frac{6}{41}\sqrt{77}e^1 \otimes e_4$	{234567, 23467, 2456, 246, 3457, 347, 4, 45}
831:12	$0, 0, 0, 0, 0, \frac{16}{307}\sqrt{30}e^{12}, \frac{16}{307}\sqrt{106}e^{13}, \frac{16}{307}\sqrt{19}e^{14} + \frac{16}{307}\sqrt{57}e^{26}$	$(-\frac{60}{307}, \frac{8}{307}, \frac{84}{307}, \frac{16}{307}, \frac{152}{307}, -\frac{52}{307}, \frac{24}{307}, -\frac{44}{307}) + \frac{16}{307}\sqrt{155}e^3 \otimes e_8 + \frac{48}{307}\sqrt{13}e^5 \otimes e_7$	{123456, 1345, 2458, 4568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:12	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{2}{115}\sqrt{429}e^{13}, \frac{3}{115}\sqrt{1430}e^{14} + \frac{4}{115}\sqrt{143}e^{26}$	$(-\frac{12}{115}, \frac{7}{23}, \frac{27}{115}, \frac{14}{23}, -\frac{73}{115}, \frac{1}{5}, \frac{3}{23}, \frac{58}{115})$ $+ \frac{2}{115}\sqrt{672}e^4 \otimes e_5$	{1235678, 12568, 13578, 158, 235, 257, 356, 567}
831:12	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{78}e^{12}, \frac{1}{27}\sqrt{91}e^{13}, \frac{2}{27}\sqrt{65}e^{14} + \frac{1}{27}\sqrt{65}e^{26}$	$(\frac{2}{9}, \frac{2}{27}, -\frac{7}{27}, \frac{4}{27}, -\frac{1}{3}, \frac{8}{27}, -\frac{1}{27}, \frac{10}{27})$ $+ \frac{13}{27}\sqrt{2}e^1 \otimes e_3 + \frac{1}{27}\sqrt{299}e^4 \otimes e_5$	{124, 146, 23468, 348}
831:12	$0, 0, 0, 0, 0, \frac{3}{721}\sqrt{6942}e^{12}, \frac{45}{721}\sqrt{26}e^{13}, \frac{108}{721}\sqrt{13}e^{14} + \frac{3}{721}\sqrt{4602}e^{26}$	$(\frac{178}{721}, -\frac{68}{721}, -\frac{173}{721}, -\frac{136}{721}, \frac{393}{721}, \frac{110}{721}, \frac{5}{721}, \frac{6}{103})$ $+ \frac{12}{721}\sqrt{1599}e^1 \otimes e_3 + \frac{3}{721}\sqrt{24414}e^5 \otimes e_8$	{128, 168, 2356, 35}
831:12	$0, 0, 0, 0, 0, \frac{2}{475}\sqrt{15593}e^{12}, \frac{2}{475}\sqrt{33198}e^{13},$ $\frac{1}{475}\sqrt{141846}e^{14} + \frac{6}{475}\sqrt{503}e^{26}$	$(-\frac{124}{475}, \frac{167}{475}, -\frac{9}{95}, \frac{334}{475}, \frac{87}{475}, \frac{43}{475}, -\frac{169}{475}, \frac{42}{95})$ $+ \frac{2}{475}\sqrt{97582}e^4 \otimes e_7$	{125678, 12678, 1578, 178, 2357, 237, 3567, 367}
831:12	$0, 0, 0, 0, 0, \frac{8}{89}\sqrt{6}e^{12}, \frac{4}{89}\sqrt{58}e^{13}, \frac{8}{89}\sqrt{5}e^{14} + \frac{4}{89}\sqrt{66}e^{26}$	$(-\frac{21}{89}, \frac{10}{89}, \frac{15}{89}, \frac{20}{89}, \frac{10}{89}, -\frac{11}{89}, -\frac{6}{89}, -\frac{1}{89})$ $+ \frac{12}{89}\sqrt{10}e^2 \otimes e_7 + \frac{8}{89}\sqrt{17}e^3 \otimes e_8$	{145678, 14678, 3457, 347}
831:12	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{43}e^{12}, \frac{3}{113}\sqrt{258}e^{13}, \frac{2}{113}\sqrt{645}e^{14} + \frac{2}{113}\sqrt{129}e^{26}$	$(\frac{4}{113}, \frac{16}{113}, -\frac{15}{113}, \frac{32}{113}, -\frac{39}{113}, \frac{20}{113}, \frac{11}{113}, \frac{36}{113})$ $+ \frac{10}{113}\sqrt{43}e^4 \otimes e_7 + \frac{1}{113}\sqrt{4386}e^1 \otimes e_5$	{1234, 1346, 24568, 458}
831:12	$0, 0, 0, 0, 0, \frac{8}{637}\sqrt{366}e^{12}, \frac{8}{637}\sqrt{366}e^{13}, \frac{16}{637}\sqrt{74}e^{14} + \frac{16}{637}\sqrt{95}e^{26}$	$(\frac{8}{91}, -\frac{4}{637}, -\frac{124}{637}, -\frac{8}{637}, \frac{16}{91}, \frac{4}{49}, -\frac{68}{637}, \frac{48}{637})$ $+ \frac{16}{637}\sqrt{155}e^2 \otimes e_7 + \frac{8}{637}\sqrt{106}e^5 \otimes e_8 + \frac{8}{637}\sqrt{430}e^1 \otimes e_4$	{2456, 3457}
831:12	$0, 0, 0, 0, 0, \frac{8}{1167}\sqrt{2581}e^{12}, \frac{4}{1167}\sqrt{9686}e^{13},$ $\frac{4}{1167}\sqrt{1914}e^{14} + \frac{80}{1167}\sqrt{58}e^{26}$	$(-\frac{55}{389}, \frac{30}{389}, \frac{479}{1167}, \frac{60}{389}, -\frac{374}{1167}, -\frac{25}{389}, \frac{314}{1167}, \frac{5}{389})$ $+ \frac{4}{1167}\sqrt{28942}e^3 \otimes e_8 + \frac{4}{1167}\sqrt{30218}e^2 \otimes e_5$	{12478, 145678, 23467, 3457}
831:12	$0, 0, 0, 0, 0, \frac{18}{1469}\sqrt{1605}e^{12}, \frac{18}{1469}\sqrt{543}e^{13},$ $\frac{18}{1469}\sqrt{951}e^{14} + \frac{18}{1469}\sqrt{1185}e^{26}$	$(\frac{362}{1469}, \frac{62}{1469}, -\frac{21}{1469}, -\frac{124}{1469}, -\frac{548}{1469}, \frac{300}{1469}, \frac{341}{1469}, \frac{238}{1469})$ $+ \frac{108}{1469}\sqrt{59}e^2 \otimes e_5 + \frac{18}{1469}\sqrt{1803}e^1 \otimes e_4$	{23467, 246, 3457, 45}
831:12	$0, 0, 0, 0, 0, \frac{2}{1525}\sqrt{68557}e^{12}, \frac{12}{1525}\sqrt{5362}e^{13},$ $\frac{16}{1525}\sqrt{1149}e^{14} + \frac{2}{1525}\sqrt{4213}e^{26}$	$(-\frac{358}{1525}, \frac{349}{1525}, \frac{58}{305}, \frac{698}{1525}, -\frac{476}{1525}, -\frac{9}{1525}, -\frac{68}{1525}, \frac{68}{305})$ $+ \frac{2}{1525}\sqrt{243205}e^3 \otimes e_5 + \frac{2}{1525}\sqrt{279973}e^4 \otimes e_7$	{125678, 1578, 237, 367}
831:12	$0, 0, 0, 0, 0, \frac{3}{404}\sqrt{1295}e^{12}, \frac{3}{404}\sqrt{1295}e^{13}, \frac{3}{202}\sqrt{285}e^{14} + \frac{3}{202}\sqrt{305}e^{26}$	$(\frac{23}{202}, \frac{1}{808}, -\frac{181}{808}, \frac{1}{404}, \frac{39}{404}, \frac{93}{808}, -\frac{89}{808}, \frac{47}{404})$ $+ \frac{3}{101}\sqrt{95}e^1 \otimes e_4 + \frac{3}{404}\sqrt{2130}e^2 \otimes e_7$	{2456, 246, 3457, 347}
831:13	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{5610}e^{12}, \frac{3}{137}\sqrt{2090}e^{13}, \frac{1}{137}\sqrt{5610}e^{16} + \frac{10}{137}\sqrt{66}e^{24}$	$(\frac{3}{137}, \frac{23}{137}, -\frac{31}{137}, \frac{6}{137}, \frac{1}{137}, \frac{26}{137}, -\frac{28}{137}, \frac{29}{137})$ $+ \frac{3}{137}\sqrt{4070}e^5 \otimes e_7$	{123568, 12678, 135, 17, 2378, 258, 367, 56}
831:13	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{2262}e^{12}, \frac{2}{337}\sqrt{6554}e^{13}, \frac{2}{337}\sqrt{4466}e^{16} + \frac{2}{337}\sqrt{8758}e^{24}$	$(\frac{36}{337}, \frac{35}{337}, -\frac{80}{337}, \frac{72}{337}, -\frac{81}{337}, \frac{71}{337}, -\frac{44}{337}, \frac{107}{337})$ $+ \frac{4}{337}\sqrt{1653}e^2 \otimes e_5 + \frac{4}{337}\sqrt{2755}e^4 \otimes e_7$	{12678, 157, 2378, 3567}
831:13	$0, 0, 0, 0, 0, \frac{8}{437}\sqrt{66}e^{12}, \frac{4}{437}\sqrt{426}e^{13}, \frac{8}{437}\sqrt{35}e^{16} + \frac{4}{437}\sqrt{426}e^{24}$	$(\frac{1}{23}, -\frac{51}{437}, \frac{3}{437}, \frac{2}{23}, \frac{30}{437}, -\frac{32}{437}, \frac{22}{437}, -\frac{13}{437})$ $+ \frac{4}{437}\sqrt{442}e^4 \otimes e_7 + \frac{8}{437}\sqrt{93}e^3 \otimes e_8$	{125678, 12678, 3567, 367}
831:13	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{21}e^{12}, \frac{7}{11}e^{13}, \frac{2}{11}\sqrt{21}e^{16} + \frac{7}{11}e^{24}$	$(\frac{5}{22}, -\frac{1}{11}, -\frac{9}{22}, \frac{5}{11}, \frac{3}{22}, \frac{3}{22}, -\frac{2}{11}, \frac{4}{11})$ $+ \frac{1}{11}\sqrt{133}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 234568, 23468, 34, 345}
831:13	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{6554}e^{12}, \frac{2}{337}\sqrt{4466}e^{13}, \frac{2}{337}\sqrt{8758}e^{16} + \frac{2}{337}\sqrt{2262}e^{24}$	$(\frac{36}{337}, -\frac{41}{337}, -\frac{80}{337}, \frac{72}{337}, \frac{147}{337}, -\frac{5}{337}, -\frac{44}{337}, \frac{31}{337})$ $+ \frac{4}{337}\sqrt{1653}e^5 \otimes e_8 + \frac{4}{337}\sqrt{2755}e^1 \otimes e_3$	{1248, 1456, 23468, 345}
831:13	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{93}e^{12}, \frac{6}{127}\sqrt{93}e^{13}, \frac{1}{127}\sqrt{93}e^{16} + \frac{1}{127}\sqrt{93}e^{24}$	$(-\frac{39}{254}, \frac{54}{127}, \frac{107}{254}, -\frac{39}{127}, -\frac{79}{254}, \frac{69}{254}, \frac{34}{127}, \frac{15}{127})$ $+ \frac{3}{127}\sqrt{1147}e^2 \otimes e_4 + \frac{3}{127}\sqrt{1147}e^3 \otimes e_5$	{123, 1257, 2367, 256}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:13	$0, 0, 0, 0, 0, \frac{24}{1319}\sqrt{890}e^{12}, \frac{8}{1319}\sqrt{435}e^{13}, \frac{40}{1319}\sqrt{219}e^{16} + \frac{8}{1319}\sqrt{3810}e^{24}$	$(-\frac{58}{1319}, \frac{364}{1319}, \frac{166}{1319}, -\frac{116}{1319}, -\frac{538}{1319}, \frac{306}{1319}, \frac{108}{1319}, \frac{248}{1319}) + \frac{312}{1319}\sqrt{5}e^2 \otimes e_4 + \frac{360}{1319}\sqrt{5}e^1 \otimes e_5$	{13467, 146, 345, 457}
831:13	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{5610}e^{12}, \frac{3}{137}\sqrt{2090}e^{13}, \frac{1}{137}\sqrt{5610}e^{16} + \frac{10}{137}\sqrt{66}e^{24}$	$(\frac{3}{137}, \frac{23}{137}, \frac{80}{137}, \frac{6}{137}, -\frac{85}{137}, \frac{26}{137}, \frac{83}{137}, \frac{29}{137}) + \frac{3}{137}\sqrt{4070}e^3 \otimes e_5$	{12368, 125678, 13, 157, 2378, 258, 367, 56}
831:13	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{93}e^{12}, \frac{6}{127}\sqrt{93}e^{13}, \frac{1}{127}\sqrt{93}e^{16} + \frac{1}{127}\sqrt{93}e^{24}$	$(-\frac{39}{254}, \frac{54}{127}, \frac{2}{127}, -\frac{39}{127}, \frac{143}{254}, \frac{69}{254}, -\frac{43}{254}, \frac{15}{127}) + \frac{3}{127}\sqrt{1147}e^2 \otimes e_4 + \frac{3}{127}\sqrt{1147}e^5 \otimes e_7$	{1235, 127, 2367, 256}
831:13	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{6}e^{12}, \frac{2}{29}\sqrt{33}e^{13}, \frac{2}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{33}e^{24}$	$(-\frac{4}{29}, \frac{7}{29}, \frac{5}{29}, -\frac{8}{29}, \frac{3}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{1}{29}) + \frac{2}{29}\sqrt{39}e^2 \otimes e_7 + \frac{2}{29}\sqrt{39}e^3 \otimes e_8$	{258, 28, 3567, 367}
831:13	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{305}e^{13}, \frac{3}{133}\sqrt{110}e^{16} + \frac{3}{133}\sqrt{110}e^{24}$	$(\frac{5}{266}, \frac{33}{133}, -\frac{29}{266}, \frac{5}{133}, -\frac{85}{266}, \frac{71}{133}, -\frac{12}{133}, \frac{2}{7}) + \frac{9}{133}\sqrt{65}e^1 \otimes e_5 + \frac{9}{133}\sqrt{65}e^2 \otimes e_7$	{1238, 167, 2568, 357}
831:13	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{154}e^{12}, \frac{1}{107}\sqrt{1342}e^{13}, \frac{2}{107}\sqrt{473}e^{16} + \frac{1}{107}\sqrt{1342}e^{24}$	$(-\frac{1}{214}, \frac{21}{107}, -\frac{45}{214}, -\frac{1}{107}, \frac{15}{214}, \frac{41}{214}, -\frac{23}{107}, \frac{20}{107}) + \frac{11}{107}\sqrt{22}e^1 \otimes e_3 + \frac{2}{107}\sqrt{429}e^2 \otimes e_4$	{1456, 146, 34, 345}
831:13	$0, 0, 0, 0, 0, \frac{8}{1319}\sqrt{3810}e^{12}, \frac{40}{1319}\sqrt{219}e^{13}, \frac{8}{1319}\sqrt{435}e^{16} + \frac{24}{1319}\sqrt{890}e^{24}$	$(\frac{55}{1319}, -\frac{143}{1319}, \frac{447}{1319}, \frac{110}{1319}, -\frac{370}{1319}, -\frac{88}{1319}, \frac{502}{1319}, -\frac{33}{1319}) + \frac{312}{1319}\sqrt{5}e^4 \otimes e_5 + \frac{360}{1319}\sqrt{5}e^3 \otimes e_8$	{125678, 135, 258, 3567}
831:13	$0, 0, 0, 0, 0, \frac{4}{1133}\sqrt{498}e^{12}, \frac{30}{1133}\sqrt{249}e^{13}, \frac{2}{1133}\sqrt{9213}e^{16} + \frac{8}{1133}\sqrt{5727}e^{24}$	$(-\frac{114}{1133}, \frac{19}{103}, \frac{479}{1133}, -\frac{228}{1133}, -\frac{289}{1133}, \frac{95}{1133}, \frac{365}{1133}, -\frac{19}{1133}) + \frac{12}{1133}\sqrt{3901}e^3 \otimes e_8 + \frac{6}{1133}\sqrt{11869}e^2 \otimes e_5$	{12346, 14578, 2347, 4568}
831:13	$0, 0, 0, 0, 0, \frac{6}{11}e^{12}, \frac{6}{11}\sqrt{2}e^{13}, \frac{3}{11}\sqrt{2}e^{16} + \frac{6}{11}\sqrt{2}e^{24}$	$(-\frac{1}{11}, 0, \frac{7}{11}, -\frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{6}{11}, -\frac{2}{11}) + \frac{9}{11}\sqrt{2}e^3 \otimes e_8$	{123456, 12346, 14578, 1478, 23457, 2347, 4568, 468}
831:13	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{22}e^{12}, \frac{1}{25}\sqrt{22}e^{13}, \frac{2}{25}\sqrt{33}e^{16} + \frac{1}{25}\sqrt{22}e^{24}$	$(\frac{2}{25}, \frac{4}{25}, -\frac{9}{25}, \frac{4}{25}, \frac{3}{25}, \frac{6}{25}, -\frac{7}{25}, \frac{8}{25}) + \frac{1}{25}\sqrt{286}e^1 \otimes e_3 + \frac{3}{25}\sqrt{22}e^2 \otimes e_7$	{12458, 1248, 234568, 23468}
831:13	$0, 0, 0, 0, 0, \frac{1}{107}\sqrt{1342}e^{12}, \frac{4}{107}\sqrt{154}e^{13}, \frac{1}{107}\sqrt{1342}e^{16} + \frac{2}{107}\sqrt{473}e^{24}$	$(\frac{25}{214}, -\frac{5}{107}, -\frac{19}{214}, \frac{25}{107}, -\frac{63}{214}, \frac{15}{214}, \frac{3}{107}, \frac{20}{107}) + \frac{11}{107}\sqrt{22}e^4 \otimes e_7 + \frac{2}{107}\sqrt{429}e^3 \otimes e_5$	{125678, 157, 2378, 367}
831:13	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{22}e^{12}, \frac{3}{25}\sqrt{22}e^{13}, \frac{1}{25}\sqrt{22}e^{16} + \frac{2}{25}\sqrt{33}e^{24}$	$(\frac{1}{5}, -\frac{2}{25}, -\frac{6}{25}, \frac{2}{5}, -\frac{6}{25}, \frac{3}{25}, -\frac{1}{25}, \frac{8}{25}) + \frac{1}{25}\sqrt{286}e^4 \otimes e_7 + \frac{3}{25}\sqrt{22}e^1 \otimes e_5$	{12678, 17, 23578, 3567}
831:13	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{4466}e^{12}, \frac{2}{337}\sqrt{6554}e^{13}, \frac{2}{337}\sqrt{2262}e^{16} + \frac{2}{337}\sqrt{8758}e^{24}$	$(\frac{36}{337}, -\frac{41}{337}, -\frac{80}{337}, \frac{72}{337}, \frac{147}{337}, -\frac{5}{337}, -\frac{44}{337}, \frac{31}{337}) + \frac{4}{337}\sqrt{1653}e^5 \otimes e_8 + \frac{4}{337}\sqrt{2755}e^4 \otimes e_7$	{12678, 157, 2378, 3567}
831:13	$0, 0, 0, 0, 0, \frac{52}{491}\sqrt{7}e^{12}, \frac{26}{491}\sqrt{82}e^{13}, \frac{13}{491}\sqrt{3}e^{16} + \frac{13}{491}\sqrt{217}e^{24}$	$(-\frac{117}{982}, \frac{52}{491}, \frac{104}{491}, -\frac{117}{491}, \frac{429}{982}, -\frac{13}{982}, \frac{91}{491}, -\frac{65}{491}) + \frac{13}{491}\sqrt{113}e^2 \otimes e_4 + \frac{26}{491}\sqrt{110}e^3 \otimes e_8 + \frac{39}{491}\sqrt{37}e^5 \otimes e_7$	{12678, 258}
831:13	$0, 0, 0, 0, 0, \frac{7}{11}e^{12}, \frac{2}{11}\sqrt{21}e^{13}, \frac{7}{11}e^{16} + \frac{2}{11}\sqrt{21}e^{24}$	$(\frac{5}{22}, -\frac{1}{11}, -\frac{9}{22}, \frac{5}{11}, \frac{3}{22}, \frac{3}{22}, -\frac{2}{11}, \frac{4}{11}) + \frac{1}{11}\sqrt{133}e^4 \otimes e_7$	{125678, 12678, 157, 17, 23578, 2378, 3567, 367}
831:13	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{8758}e^{12}, \frac{2}{337}\sqrt{4466}e^{13}, \frac{2}{337}\sqrt{6554}e^{16} + \frac{2}{337}\sqrt{2262}e^{24}$	$(\frac{36}{337}, \frac{35}{337}, -\frac{80}{337}, \frac{72}{337}, -\frac{81}{337}, \frac{71}{337}, -\frac{44}{337}, \frac{107}{337}) + \frac{4}{337}\sqrt{1653}e^2 \otimes e_5 + \frac{4}{337}\sqrt{2755}e^1 \otimes e_3$	{1248, 1456, 23468, 345}
831:13	$0, 0, 0, 0, 0, \frac{4}{281}\sqrt{215}e^{12}, \frac{20}{281}\sqrt{43}e^{13}, \frac{4}{281}\sqrt{645}e^{16} + \frac{20}{281}\sqrt{43}e^{24}$	$(-\frac{51}{281}, \frac{70}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{39}{281}, \frac{19}{281}, \frac{89}{281}, -\frac{32}{281}) + \frac{2}{281}\sqrt{12986}e^3 \otimes e_8 + \frac{2}{281}\sqrt{7826}e^2 \otimes e_4$	{12578, 1278, 2568, 268}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:13	$0, 0, 0, 0, 0, \frac{6}{11}\sqrt{2}e^{12}, \frac{3}{11}\sqrt{2}e^{13}, \frac{6}{11}\sqrt{2}e^{16} + \frac{6}{11}e^{24}$	$(\frac{2}{11}, 0, \frac{1}{11}, \frac{4}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11})$ $+ \frac{9}{11}\sqrt{2}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 2345678, 24568, 3457, 45}
831:13	$0, 0, 0, 0, 0, \frac{8}{1319}\sqrt{435}e^{12}, \frac{40}{1319}\sqrt{219}e^{13},$ $\frac{8}{1319}\sqrt{3810}e^{16} + \frac{24}{1319}\sqrt{890}e^{24}$	$(\frac{55}{1319}, \frac{307}{1319}, -\frac{228}{1319}, \frac{110}{1319}, -\frac{370}{1319}, \frac{362}{1319}, -\frac{173}{1319}, \frac{417}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^4 \otimes e_5 + \frac{360}{1319}\sqrt{5}e^2 \otimes e_7$	{123568, 157, 258, 3567}
831:13	$0, 0, 0, 0, 0, \frac{20}{197}\sqrt{42}e^{12}, \frac{56}{197}\sqrt{2}e^{13}, \frac{20}{197}\sqrt{42}e^{16} + \frac{56}{197}\sqrt{3}e^{24}$	$(\frac{33}{197}, -\frac{9}{197}, -\frac{79}{197}, \frac{66}{197}, \frac{66}{197}, \frac{24}{197}, -\frac{46}{197}, \frac{57}{197})$ $+ \frac{4}{197}\sqrt{1834}e^1 \otimes e_3 + \frac{56}{197}\sqrt{3}e^5 \otimes e_7$	{12458, 1456, 234568, 345}
831:13	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{39}e^{12}, \frac{2}{71}\sqrt{39}e^{13}, \frac{6}{71}\sqrt{78}e^{16} + \frac{6}{71}\sqrt{78}e^{24}$	$(-\frac{2}{71}, -\frac{3}{71}, \frac{15}{71}, -\frac{4}{71}, 1, -\frac{5}{71}, \frac{13}{71}, -\frac{7}{71})$ $+ \frac{6}{71}\sqrt{247}e^5 \otimes e_8$	{1234567, 12456, 13478, 148, 2345, 2457, 3468, 4678}
831:13	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{78}e^{12}, \frac{2}{71}\sqrt{39}e^{13}, \frac{2}{71}\sqrt{39}e^{16} + \frac{6}{71}\sqrt{78}e^{24}$	$(-\frac{2}{71}, \frac{35}{71}, \frac{15}{71}, -\frac{4}{71}, -\frac{43}{71}, \frac{33}{71}, \frac{13}{71}, \frac{31}{71})$ $+ \frac{6}{71}\sqrt{247}e^2 \otimes e_5$	{12347, 124, 1345678, 14568, 2346, 2467, 3458, 4578}
831:13	$0, 0, 0, 0, 0, \frac{8}{1319}\sqrt{3810}e^{12}, \frac{24}{1319}\sqrt{890}e^{13},$ $\frac{8}{1319}\sqrt{435}e^{16} + \frac{40}{1319}\sqrt{219}e^{24}$	$(-\frac{114}{1319}, \frac{26}{1319}, \frac{278}{1319}, -\frac{228}{1319}, \frac{644}{1319}, \frac{88}{1319}, \frac{164}{1319}, -\frac{202}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^5 \otimes e_7 + \frac{360}{1319}\sqrt{5}e^3 \otimes e_8$	{12678, 135, 258, 367}
831:13	$0, 0, 0, 0, 0, \frac{19}{1379}\sqrt{678}e^{12}, \frac{95}{1379}\sqrt{6}e^{13},$ $\frac{38}{1379}\sqrt{177}e^{16} + \frac{19}{1379}\sqrt{106}e^{24}$	$(\frac{38}{1379}, \frac{76}{1379}, -\frac{323}{1379}, \frac{76}{1379}, \frac{513}{1379}, \frac{114}{1379}, -\frac{285}{1379}, \frac{152}{1379})$ $+ \frac{19}{1379}\sqrt{1054}e^1 \otimes e_3 + \frac{19}{1379}\sqrt{678}e^2 \otimes e_7 + \frac{304}{1379}\sqrt{3}e^5 \otimes e_8$	{128, 2368}
831:13	$0, 0, 0, 0, 0, \frac{3}{79}\sqrt{170}e^{12}, \frac{1}{79}\sqrt{714}e^{13}, \frac{4}{79}\sqrt{102}e^{16} + \frac{1}{79}\sqrt{510}e^{24}$	$(-\frac{14}{79}, \frac{23}{79}, \frac{17}{79}, -\frac{28}{79}, \frac{46}{79}, \frac{9}{79}, \frac{3}{79}, -\frac{5}{79})$ $+ \frac{3}{79}\sqrt{374}e^2 \otimes e_4 + \frac{6}{79}\sqrt{102}e^5 \otimes e_8$	{12378, 128, 2368, 2678}
831:13	$0, 0, 0, 0, 0, \frac{2}{1133}\sqrt{9213}e^{12}, \frac{30}{1133}\sqrt{249}e^{13},$ $\frac{4}{1133}\sqrt{498}e^{16} + \frac{8}{1133}\sqrt{5727}e^{24}$	$(-\frac{114}{1133}, \frac{299}{1133}, -\frac{85}{1133}, -\frac{228}{1133}, \frac{569}{1133}, \frac{185}{1133}, -\frac{199}{1133}, \frac{71}{1133})$ $+ \frac{12}{1133}\sqrt{3901}e^2 \otimes e_7 + \frac{6}{1133}\sqrt{11869}e^5 \otimes e_8$	{12345, 14678, 2456, 3478}
831:13	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{110}e^{12}, \frac{3}{133}\sqrt{305}e^{13}, \frac{3}{133}\sqrt{305}e^{16} + \frac{3}{133}\sqrt{110}e^{24}$	$(\frac{5}{266}, -\frac{6}{133}, \frac{44}{133}, \frac{5}{133}, -\frac{85}{266}, -\frac{1}{38}, \frac{93}{266}, -\frac{1}{133})$ $+ \frac{9}{133}\sqrt{65}e^1 \otimes e_5 + \frac{9}{133}\sqrt{65}e^3 \otimes e_8$	{1278, 136, 2568, 357}
831:13	$0, 0, 0, 0, 0, \frac{7}{85}\sqrt{34}e^{12}, \frac{1}{85}\sqrt{986}e^{13}, \frac{2}{85}\sqrt{323}e^{16} + \frac{3}{85}\sqrt{102}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{85}\sqrt{1122}e^2 \otimes e_4 + \frac{2}{85}\sqrt{442}e^1 \otimes e_3 + \frac{2}{85}\sqrt{51}e^5 \otimes e_7$	{146, 34}
831:13	$0, 0, 0, 0, 0, \frac{19}{2405}\sqrt{2026}e^{12}, \frac{19}{2405}\sqrt{1186}e^{13},$ $\frac{38}{2405}\sqrt{461}e^{16} + \frac{19}{2405}\sqrt{910}e^{24}$	$(-\frac{38}{2405}, \frac{57}{481}, -\frac{399}{2405}, -\frac{76}{2405}, \frac{114}{481}, \frac{19}{185}, -\frac{437}{2405}, \frac{209}{2405})$ $+ \frac{114}{2405}\sqrt{23}e^5 \otimes e_8 + \frac{19}{2405}\sqrt{1374}e^2 \otimes e_4 + \frac{38}{2405}\sqrt{574}e^1 \otimes e_3$	{1456, 345}
831:13	$0, 0, 0, 0, 0, \frac{8}{1319}\sqrt{435}e^{12}, \frac{24}{1319}\sqrt{890}e^{13},$ $\frac{8}{1319}\sqrt{3810}e^{16} + \frac{40}{1319}\sqrt{219}e^{24}$	$(-\frac{114}{1319}, \frac{476}{1319}, \frac{110}{1319}, -\frac{228}{1319}, -\frac{370}{1319}, \frac{362}{1319}, -\frac{4}{1319}, \frac{248}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^3 \otimes e_5 + \frac{360}{1319}\sqrt{5}e^2 \otimes e_7$	{12368, 157, 258, 367}
831:13	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{5610}e^{12}, \frac{10}{137}\sqrt{66}e^{13}, \frac{1}{137}\sqrt{5610}e^{16} + \frac{3}{137}\sqrt{2090}e^{24}$	$(\frac{40}{137}, -\frac{14}{137}, \frac{6}{137}, \frac{80}{137}, -\frac{85}{137}, \frac{26}{137}, \frac{46}{137}, \frac{66}{137})$ $+ \frac{3}{137}\sqrt{4070}e^4 \otimes e_5$	{123568, 125678, 135, 157, 23578, 258, 3567, 56}
831:13	$0, 0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{6}{11}\sqrt{2}e^{13}, \frac{6}{11}e^{16} + \frac{6}{11}\sqrt{2}e^{24}$	$(-\frac{1}{11}, \frac{6}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{5}{11}, -\frac{3}{11}, \frac{4}{11})$ $+ \frac{9}{11}\sqrt{2}e^2 \otimes e_7$	{1234, 12345, 145678, 14678, 2456, 246, 34578, 3478}
831:13	$0, 0, 0, 0, 0, \frac{20}{197}\sqrt{42}e^{12}, \frac{56}{197}\sqrt{3}e^{13}, \frac{20}{197}\sqrt{42}e^{16} + \frac{56}{197}\sqrt{2}e^{24}$	$(\frac{47}{197}, -\frac{23}{197}, -\frac{65}{197}, \frac{94}{197}, -\frac{18}{197}, \frac{24}{197}, -\frac{18}{197}, \frac{71}{197})$ $+ \frac{4}{197}\sqrt{1834}e^1 \otimes e_3 + \frac{56}{197}\sqrt{3}e^4 \otimes e_5$	{1248, 146, 23468, 34}
831:13	$0, 0, 0, 0, 0, \frac{3}{137}\sqrt{2090}e^{12}, \frac{1}{137}\sqrt{5610}e^{13}, \frac{10}{137}\sqrt{66}e^{16} + \frac{1}{137}\sqrt{5610}e^{24}$	$(-\frac{34}{137}, \frac{97}{137}, \frac{43}{137}, -\frac{68}{137}, \frac{26}{137}, \frac{63}{137}, \frac{9}{137}, \frac{29}{137})$ $+ \frac{3}{137}\sqrt{4070}e^2 \otimes e_4$	{134567, 13467, 1456, 146, 34, 345, 457, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:14	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{13}e^{12}, \frac{1}{25}\sqrt{78}e^{13}, \frac{1}{25}\sqrt{78}e^{16} + \frac{3}{25}\sqrt{13}e^{45}$	$(\frac{2}{25}, \frac{4}{25}, \frac{9}{50}, \frac{47}{50}, -\frac{31}{50}, \frac{6}{25}, \frac{13}{50}, \frac{8}{25})$ $+ \frac{39}{25}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 234678, 235678, 2468, 2568}
831:14	$0, 0, 0, 0, 0, \frac{6}{551}\sqrt{318}e^{12}, \frac{2}{551}\sqrt{11395}e^{13}, \frac{4}{551}\sqrt{530}e^{16} + \frac{2}{551}\sqrt{10441}e^{45}$	$(-\frac{68}{551}, \frac{107}{551}, \frac{77}{551}, \frac{115}{551}, -\frac{144}{551}, \frac{39}{551}, \frac{9}{551}, -\frac{1}{19})$ $+ \frac{2}{551}\sqrt{12667}e^3 \otimes e_8 + \frac{2}{551}\sqrt{13727}e^4 \otimes e_7$	{125678, 1345, 248, 367}
831:14	$0, 0, 0, 0, 0, \frac{3}{499}\sqrt{4070}e^{12}, \frac{1}{499}\sqrt{178266}e^{13},$ $\frac{1}{499}\sqrt{91982}e^{16} + \frac{2}{499}\sqrt{41514}e^{45}$	$(\frac{23}{499}, \frac{129}{499}, -\frac{135}{499}, \frac{295}{499}, -\frac{120}{499}, \frac{152}{499}, -\frac{112}{499}, \frac{175}{499})$ $+ \frac{1}{499}\sqrt{337810}e^4 \otimes e_7$	{123468, 125678, 1345, 17, 23578, 248, 367, 456}
831:14	$0, 0, 0, 0, 0, \frac{340}{1987}e^{12}, \frac{238}{1987}\sqrt{10}e^{13}, \frac{68}{1987}\sqrt{82}e^{16} + \frac{136}{1987}\sqrt{14}e^{45}$	$(\frac{170}{1987}, -\frac{408}{1987}, \frac{510}{1987}, -\frac{323}{1987}, \frac{255}{1987}, -\frac{238}{1987}, \frac{680}{1987}, -\frac{68}{1987})$ $+ \frac{306}{1987}\sqrt{10}e^3 \otimes e_8 + \frac{34}{1987}\sqrt{698}e^1 \otimes e_2 + \frac{578}{1987}e^5 \otimes e_4$	{1478, 1578}
831:14	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{7}e^{12}, \frac{4}{79}\sqrt{91}e^{13}, \frac{4}{79}\sqrt{91}e^{16} + \frac{4}{79}\sqrt{7}e^{45}$	$(\frac{26}{79}, -\frac{30}{79}, -\frac{3}{79}, \frac{39}{79}, -\frac{17}{79}, -\frac{4}{79}, \frac{23}{79}, \frac{22}{79})$ $+ \frac{4}{79}\sqrt{287}e^1 \otimes e_2 + \frac{56}{79}e^4 \otimes e_5$	{2347, 2357, 24, 25}
831:14	$0, 0, 0, 0, 0, \frac{4}{1405}\sqrt{41514}e^{12}, \frac{2}{1405}\sqrt{91982}e^{13},$ $\frac{2}{1405}\sqrt{178266}e^{16} + \frac{6}{1405}\sqrt{4070}e^{45}$	$(\frac{378}{1405}, -\frac{48}{281}, -\frac{436}{1405}, \frac{133}{281}, -\frac{149}{1405}, \frac{138}{1405}, -\frac{58}{1405}, \frac{516}{1405})$ $+ \frac{2}{1405}\sqrt{337810}e^1 \otimes e_3 + \frac{814}{1405}e^4 \otimes e_5$	{146, 156, 34, 35}
831:14	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{143002}e^{12}, \frac{2}{521}\sqrt{39410}e^{13},$ $\frac{2}{521}\sqrt{7319}e^{16} + \frac{2}{521}\sqrt{12386}e^{45}$	$(-\frac{135}{521}, \frac{394}{521}, -\frac{34}{521}, \frac{62}{521}, \frac{62}{521}, \frac{259}{521}, -\frac{169}{521}, \frac{124}{521})$ $+ \frac{1}{521}\sqrt{467290}e^2 \otimes e_7$	{123, 12345, 14678, 2456, 26, 3478}
831:14	$0, 0, 0, 0, 0, \frac{34}{3737}\sqrt{177}e^{12}, \frac{17}{3737}\sqrt{2694}e^{13}, \frac{170}{3737}e^{16} + \frac{34}{3737}\sqrt{474}e^{45}$	$(\frac{85}{3737}, -\frac{204}{3737}, \frac{255}{3737}, -\frac{663}{3737}, \frac{17}{101}, -\frac{119}{3737}, \frac{340}{3737}, -\frac{34}{3737})$ $+ \frac{17}{3737}\sqrt{1686}e^1 \otimes e_2 + \frac{17}{3737}\sqrt{2634}e^3 \otimes e_8 + \frac{34}{3737}\sqrt{646}e^5 \otimes e_7$	{1478, 237}
831:14	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{41514}e^{12}, \frac{1}{499}\sqrt{91982}e^{13},$ $\frac{1}{499}\sqrt{178266}e^{16} + \frac{3}{499}\sqrt{4070}e^{45}$	$(\frac{189}{499}, -\frac{120}{499}, -\frac{218}{499}, \frac{129}{499}, \frac{129}{499}, \frac{69}{499}, -\frac{29}{499}, \frac{258}{499})$ $+ \frac{1}{499}\sqrt{337810}e^1 \otimes e_3$	{12458, 128, 146, 234568, 2368, 34}
831:14	$0, 0, 0, 0, 0, \frac{12}{1343}\sqrt{923}e^{12}, \frac{4}{1343}\sqrt{35571}e^{13},$ $\frac{4}{1343}\sqrt{3053}e^{16} + \frac{4}{1343}\sqrt{20661}e^{45}$	$(\frac{322}{1343}, -\frac{246}{1343}, -\frac{351}{1343}, \frac{539}{1343}, -\frac{141}{1343}, \frac{76}{1343}, -\frac{29}{1343}, \frac{398}{1343})$ $+ \frac{12}{1343}\sqrt{4047}e^1 \otimes e_2 + \frac{8}{1343}\sqrt{12070}e^4 \otimes e_7$	{1345, 17, 23578, 248}
831:14	$0, 0, 0, 0, 0, \frac{36}{1523}\sqrt{118}e^{12}, \frac{288}{1523}\sqrt{7}e^{13},$ $\frac{36}{1523}\sqrt{61}e^{16} + \frac{36}{1523}\sqrt{285}e^{45}$	$(-\frac{432}{1523}, \frac{684}{1523}, \frac{468}{1523}, -\frac{90}{1523}, -\frac{90}{1523}, \frac{252}{1523}, \frac{36}{1523}, -\frac{180}{1523})$ $+ \frac{36}{1523}\sqrt{607}e^2 \otimes e_7 + \frac{36}{1523}\sqrt{721}e^3 \otimes e_8$	{2468, 3457, 37}
831:14	$0, 0, 0, 0, 0, \frac{170}{849}e^{12}, \frac{119}{849}\sqrt{10}e^{13}, \frac{34}{849}\sqrt{82}e^{16} + \frac{68}{849}\sqrt{14}e^{45}$	$(\frac{85}{849}, -\frac{68}{283}, \frac{85}{283}, -\frac{17}{849}, -\frac{17}{849}, \frac{119}{849}, \frac{340}{849}, -\frac{34}{849})$ $+ \frac{17}{849}\sqrt{698}e^1 \otimes e_2 + \frac{51}{283}\sqrt{10}e^3 \otimes e_8$	{1478, 23457, 237}
831:14	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{7}e^{12}, \frac{4}{51}\sqrt{91}e^{13}, \frac{4}{51}\sqrt{91}e^{16} + \frac{4}{51}\sqrt{7}e^{45}$	$(\frac{26}{51}, -\frac{10}{17}, -\frac{1}{17}, \frac{11}{51}, \frac{11}{51}, -\frac{4}{51}, \frac{23}{51}, \frac{22}{51})$ $+ \frac{4}{51}\sqrt{287}e^1 \otimes e_2$	{13458, 138, 14578, 178, 2347, 24}
831:14	$0, 0, 0, 0, 0, \frac{6}{529}\sqrt{467}e^{12}, \frac{2}{529}\sqrt{36893}e^{13},$ $\frac{1}{529}\sqrt{68182}e^{16} + \frac{4}{529}\sqrt{8873}e^{45}$	$(-\frac{109}{529}, \frac{122}{529}, \frac{371}{529}, -\frac{48}{529}, -\frac{48}{529}, \frac{13}{529}, \frac{262}{529}, -\frac{96}{529})$ $+ \frac{5}{529}\sqrt{15878}e^3 \otimes e_8$	{123456, 1236, 1478, 23457, 237, 468}
831:14	$0, 0, 0, 0, 0, \frac{4}{193}\sqrt{435}e^{12}, \frac{4}{193}\sqrt{290}e^{13}, \frac{4}{193}\sqrt{290}e^{16} + \frac{4}{193}\sqrt{435}e^{45}$	$(\frac{40}{193}, -\frac{3}{193}, -\frac{76}{193}, \frac{80}{193}, -\frac{3}{193}, \frac{37}{193}, -\frac{36}{193}, \frac{77}{193})$ $+ \frac{2}{193}\sqrt{4814}e^1 \otimes e_3 + \frac{2}{193}\sqrt{4814}e^4 \otimes e_7$	{12578, 167, 235678, 37}
831:14	$0, 0, 0, 0, 0, \frac{12}{1525}\sqrt{467}e^{12}, \frac{4}{1525}\sqrt{36893}e^{13},$ $\frac{2}{1525}\sqrt{68182}e^{16} + \frac{8}{1525}\sqrt{8873}e^{45}$	$(-\frac{218}{1525}, \frac{4}{25}, \frac{742}{1525}, \frac{371}{1525}, -\frac{563}{1525}, \frac{26}{1525}, \frac{524}{1525}, -\frac{192}{1525})$ $+ \frac{2}{305}\sqrt{15878}e^3 \otimes e_8 + \frac{934}{1525}e^4 \otimes e_5$	{1478, 1578, 468, 568}
831:14	$0, 0, 0, 0, 0, \frac{36}{1847}\sqrt{118}e^{12}, \frac{288}{1847}\sqrt{7}e^{13},$ $\frac{36}{1847}\sqrt{61}e^{16} + \frac{36}{1847}\sqrt{285}e^{45}$	$(-\frac{432}{1847}, \frac{684}{1847}, \frac{468}{1847}, -\frac{414}{1847}, \frac{234}{1847}, \frac{252}{1847}, \frac{36}{1847}, -\frac{180}{1847})$ $+ \frac{36}{1847}\sqrt{607}e^2 \otimes e_7 + \frac{36}{1847}\sqrt{721}e^3 \otimes e_8 + \frac{648}{1847}e^5 \otimes e_4$	{2468, 2568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:14	$0, 0, 0, 0, 0, \frac{255}{659}\sqrt{2}e^{12}, \frac{68}{659}\sqrt{2}e^{13}, \frac{170}{659}\sqrt{3}e^{16} + \frac{68}{659}\sqrt{3}e^{45}$	$(\frac{51}{659}, \frac{102}{659}, -\frac{238}{659}, \frac{102}{659}, \frac{102}{659}, \frac{153}{659}, -\frac{187}{659}, \frac{204}{659})$ $+ \frac{17}{659}\sqrt{498}e^2 \otimes e_7 + \frac{34}{659}\sqrt{166}e^1 \otimes e_3$	{12458, 128, 234568, 2368}
831:14	$0, 0, 0, 0, 0, \frac{2}{1605}\sqrt{143002}e^{12}, \frac{4}{1605}\sqrt{39410}e^{13},$ $\frac{4}{1605}\sqrt{7319}e^{16} + \frac{4}{1605}\sqrt{12386}e^{45}$	$(-\frac{18}{107}, \frac{788}{1605}, -\frac{68}{1605}, \frac{229}{535}, -\frac{439}{1605}, \frac{518}{1605}, -\frac{338}{1605}, \frac{248}{1605})$ $+ \frac{1126}{1605}e^4 \otimes e_5 + \frac{2}{1605}\sqrt{467290}e^2 \otimes e_7$	{14678, 15678, 3478, 3578}
831:15	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{14}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{1}{9}\sqrt{14}e^{26} + \frac{1}{9}\sqrt{14}e^{45}$	$(\frac{1}{9}, \frac{1}{9}, \frac{17}{18}, -\frac{11}{18}, \frac{2}{9}, \frac{5}{18}, \frac{1}{3})$ $+ \frac{14}{9}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 13468, 13568, 14678, 15678}
831:15	$0, 0, 0, 0, 0, \frac{10}{1433}\sqrt{2622}e^{12}, \frac{2}{1433}\sqrt{112309}e^{13},$ $\frac{2}{1433}\sqrt{18354}e^{26} + \frac{2}{1433}\sqrt{140277}e^{45}$	$(\frac{300}{1433}, \frac{87}{1433}, -\frac{574}{1433}, \frac{600}{1433}, -\frac{126}{1433}, \frac{387}{1433}, -\frac{274}{1433}, \frac{474}{1433})$ $+ \frac{22}{1433}\sqrt{2622}e^4 \otimes e_7 + \frac{32}{1433}\sqrt{874}e^1 \otimes e_3$	{127, 167, 235678, 3578}
831:15	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{13}e^{12}, \frac{9}{77}\sqrt{39}e^{13}, \frac{3}{154}\sqrt{1001}e^{26} + \frac{3}{154}\sqrt{1001}e^{45}$	$(-\frac{8}{77}, -\frac{1}{308}, \frac{50}{77}, -\frac{17}{308}, -\frac{17}{308}, -\frac{3}{28}, \frac{6}{11}, -\frac{17}{154})$ $+ \frac{3}{77}\sqrt{806}e^3 \otimes e_8$	{123456, 1236, 13, 1345, 248, 468}
831:15	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{18462}e^{12}, \frac{1}{146}\sqrt{2534}e^{13},$ $\frac{1}{146}\sqrt{2715}e^{26} + \frac{1}{146}\sqrt{2715}e^{45}$	$(\frac{51}{73}, -\frac{57}{292}, -\frac{79}{146}, \frac{45}{292}, \frac{45}{292}, \frac{147}{146}, \frac{23}{146}, \frac{45}{146})$ $+ \frac{1}{73}\sqrt{10498}e^1 \otimes e_3$	{1248, 1468, 23456, 236, 3, 345}
831:15	$0, 0, 0, 0, 0, \frac{57}{1069}\sqrt{58}e^{12}, \frac{19}{1069}\sqrt{211}e^{13},$ $\frac{171}{1069}\sqrt{5}e^{26} + \frac{38}{1069}\sqrt{15}e^{45}$	$(\frac{57}{1069}, \frac{114}{1069}, -\frac{304}{1069}, -\frac{38}{1069}, \frac{323}{1069}, \frac{171}{1069}, -\frac{247}{1069}, \frac{285}{1069})$ $+ \frac{19}{1069}\sqrt{622}e^1 \otimes e_3 + \frac{19}{1069}\sqrt{930}e^2 \otimes e_7 + \frac{361}{1069}e^5 \otimes e_4$	{347, 357}
831:15	$0, 0, 0, 0, 0, \frac{4}{141}\sqrt{39}e^{12}, \frac{2}{141}\sqrt{559}e^{13}, \frac{2}{141}\sqrt{559}e^{26} + \frac{4}{141}\sqrt{39}e^{45}$	$(-\frac{38}{141}, \frac{8}{47}, \frac{12}{47}, \frac{5}{141}, \frac{5}{141}, -\frac{14}{141}, -\frac{2}{141}, \frac{10}{141})$ $+ \frac{2}{141}\sqrt{806}e^2 \otimes e_7 + \frac{2}{141}\sqrt{806}e^3 \otimes e_8$	{14678, 3457, 37}
831:15	$0, 0, 0, 0, 0, \frac{6}{425}\sqrt{1001}e^{12}, \frac{6}{425}\sqrt{1001}e^{13}, \frac{36}{425}\sqrt{39}e^{26} + \frac{24}{425}\sqrt{13}e^{45}$	$(-\frac{94}{425}, \frac{123}{425}, -\frac{1}{25}, \frac{193}{425}, -\frac{41}{425}, \frac{29}{425}, -\frac{111}{425}, \frac{152}{425})$ $+ \frac{12}{425}\sqrt{806}e^2 \otimes e_7 + \frac{234}{425}e^4 \otimes e_5$	{246, 256, 347, 357}
831:15	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{39}e^{12}, \frac{1}{77}\sqrt{559}e^{13}, \frac{1}{77}\sqrt{559}e^{26} + \frac{2}{77}\sqrt{39}e^{45}$	$(-\frac{19}{77}, \frac{12}{77}, \frac{18}{77}, -\frac{4}{77}, \frac{9}{77}, -\frac{1}{11}, -\frac{1}{77}, \frac{5}{77})$ $+ \frac{13}{77}e^5 \otimes e_4 + \frac{1}{77}\sqrt{806}e^2 \otimes e_7 + \frac{1}{77}\sqrt{806}e^3 \otimes e_8$	{14678, 15678}
831:15	$0, 0, 0, 0, 0, \frac{3}{154}\sqrt{1001}e^{12}, \frac{3}{154}\sqrt{1001}e^{13}, \frac{9}{77}\sqrt{39}e^{26} + \frac{6}{77}\sqrt{13}e^{45}$	$(-\frac{47}{154}, \frac{123}{308}, -\frac{17}{308}, \frac{19}{77}, \frac{19}{77}, \frac{29}{308}, -\frac{111}{308}, \frac{38}{77})$ $+ \frac{3}{77}\sqrt{806}e^2 \otimes e_7$	{123458, 1238, 145678, 1678, 246, 347}
831:15	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{34}e^{12}, \frac{2}{37}\sqrt{221}e^{13}, \frac{2}{37}\sqrt{34}e^{26} + \frac{2}{37}\sqrt{221}e^{45}$	$(-\frac{4}{37}, \frac{11}{37}, -\frac{6}{37}, \frac{24}{37}, -\frac{6}{37}, \frac{7}{37}, -\frac{10}{37}, \frac{18}{37})$ $+ \frac{2}{37}\sqrt{510}e^4 \otimes e_7$	{123468, 125678, 1348, 1578, 237, 245, 367, 456}
831:15	$0, 0, 0, 0, 0, \frac{114}{1777}\sqrt{58}e^{12}, \frac{38}{1777}\sqrt{211}e^{13},$ $\frac{342}{1777}\sqrt{5}e^{26} + \frac{76}{1777}\sqrt{15}e^{45}$	$(\frac{114}{1777}, \frac{228}{1777}, -\frac{608}{1777}, \frac{285}{1777}, \frac{285}{1777}, \frac{342}{1777}, -\frac{494}{1777}, \frac{570}{1777})$ $+ \frac{38}{1777}\sqrt{622}e^1 \otimes e_3 + \frac{38}{1777}\sqrt{930}e^2 \otimes e_7$	{145678, 1678, 347}
831:15	$0, 0, 0, 0, 0, \frac{2}{473}\sqrt{18462}e^{12}, \frac{2}{473}\sqrt{2534}e^{13},$ $\frac{2}{473}\sqrt{2715}e^{26} + \frac{2}{473}\sqrt{2715}e^{45}$	$(\frac{204}{473}, -\frac{57}{473}, -\frac{158}{473}, \frac{226}{473}, -\frac{136}{473}, \frac{147}{473}, \frac{46}{473}, \frac{90}{473})$ $+ \frac{362}{473}e^4 \otimes e_5 + \frac{4}{473}\sqrt{10498}e^1 \otimes e_3$	{1248, 1258, 1468, 1568}
831:15	$0, 0, 0, 0, 0, \frac{4}{1977}\sqrt{7602}e^{12}, \frac{2}{1977}\sqrt{129415}e^{13},$ $\frac{4}{659}\sqrt{905}e^{26} + \frac{2}{1977}\sqrt{108419}e^{45}$	$(-\frac{112}{659}, \frac{199}{1977}, \frac{424}{1977}, \frac{150}{659}, -\frac{388}{1977}, -\frac{137}{1977}, \frac{88}{1977}, \frac{62}{1977})$ $+ \frac{2}{1977}\sqrt{151678}e^4 \otimes e_7 + \frac{8}{1977}\sqrt{10498}e^3 \otimes e_8$	{123456, 1345, 248, 468}
831:15	$0, 0, 0, 0, 0, \frac{24}{425}\sqrt{13}e^{12}, \frac{36}{425}\sqrt{39}e^{13}, \frac{6}{425}\sqrt{1001}e^{26} + \frac{6}{425}\sqrt{1001}e^{45}$	$(-\frac{32}{425}, -\frac{1}{425}, \frac{8}{17}, \frac{4}{17}, -\frac{134}{425}, -\frac{33}{425}, \frac{168}{425}, -\frac{2}{25})$ $+ \frac{12}{425}\sqrt{806}e^3 \otimes e_8 + \frac{234}{425}e^4 \otimes e_5$	{248, 258, 468, 568}
831:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{4}{35}\sqrt{22}e^{34}, \frac{6}{35}\sqrt{11}e^{15} + \frac{1}{35}\sqrt{66}e^{26}$	$(-\frac{3}{35}, \frac{3}{14}, \frac{3}{14}, -\frac{29}{70}, \frac{3}{70}, \frac{9}{70}, -\frac{1}{5}, \frac{12}{35})$ $- \frac{1}{35}\sqrt{858}e^5 \otimes e_7 + \frac{22}{35}e^3 \otimes e_4$	{123678, 124678, 1378, 1478, 237, 247, 367, 467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{66}e^{12}, \frac{4}{35}\sqrt{22}e^{34}, \frac{6}{35}\sqrt{11}e^{15} + \frac{1}{35}\sqrt{66}e^{26}$	$(-\frac{3}{35}, \frac{3}{14}, \frac{3}{14}, -\frac{29}{70}, \frac{3}{7}, \frac{9}{70}, -\frac{1}{5}, \frac{12}{35})$ $+ \frac{1}{35}\sqrt{858}e^5 \otimes e_7 + \frac{22}{35}e^3 \otimes e_4$	{123678, 124678, 1378, 1478, 237, 247, 367, 467}
831:16	$0, 0, 0, 0, 0, \frac{20}{419}\sqrt{87}e^{12}, \frac{4}{419}\sqrt{2929}e^{34}, \frac{4}{419}\sqrt{2262}e^{15} + \frac{4}{419}\sqrt{174}e^{26}$	$(\frac{150}{419}, -\frac{9}{419}, \frac{75}{419}, -\frac{157}{419}, -\frac{18}{419}, \frac{141}{419}, -\frac{82}{419}, \frac{132}{419})$ $+ \frac{232}{419}e^3 \otimes e_4 + \frac{36}{419}\sqrt{87}e^1 \otimes e_7$	{235678, 245678, 3578, 4578}
831:16	$0, 0, 0, 0, 0, \frac{4}{353}\sqrt{930}e^{12}, \frac{8}{353}\sqrt{465}e^{34}, \frac{6}{353}\sqrt{465}e^{15} + \frac{2}{353}\sqrt{6045}e^{26}$	$(\frac{80}{353}, -\frac{53}{353}, \frac{160}{353}, -\frac{28}{353}, -\frac{106}{353}, \frac{27}{353}, \frac{132}{353}, -\frac{26}{353})$ $+ \frac{2}{353}\sqrt{10509}e^1 \otimes e_5 + \frac{4}{353}\sqrt{4371}e^3 \otimes e_8$	{12478, 128, 14678, 168}
831:16	$0, 0, 0, 0, 0, \frac{4}{303}\sqrt{174}e^{12}, \frac{4}{303}\sqrt{2929}e^{34}, \frac{4}{303}\sqrt{2262}e^{15} + \frac{20}{303}\sqrt{87}e^{26}$	$(-\frac{4}{101}, -\frac{3}{101}, \frac{2}{3}, -\frac{41}{303}, -\frac{6}{101}, -\frac{7}{101}, \frac{161}{303}, -\frac{10}{101})$ $+ \frac{12}{101}\sqrt{87}e^3 \otimes e_8$	{123456, 123567, 1345, 1357, 24578, 258, 45678, 568}
831:16	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{286}e^{12}, \frac{1}{18}\sqrt{55}e^{34}, \frac{1}{18}\sqrt{66}e^{15} + \frac{1}{18}\sqrt{77}e^{26}$	$(\frac{13}{18}, -\frac{1}{4}, \frac{5}{36}, \frac{5}{36}, -\frac{1}{2}, \frac{17}{36}, \frac{5}{18}, \frac{2}{9})$ $+ \frac{1}{18}\sqrt{627}e^1 \otimes e_5$	{23456, 23567, 256, 345, 357, 5}
831:16	$0, 0, 0, 0, 0, \frac{10}{63}\sqrt{7}e^{12}, \frac{1}{63}\sqrt{406}e^{34}, \frac{4}{63}\sqrt{21}e^{15} + \frac{1}{63}\sqrt{518}e^{26}$	$(\frac{2}{9}, 0, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{2}{9}, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{1}{63}\sqrt{546}e^1 \otimes e_5 + \frac{4}{21}\sqrt{7}e^2 \otimes e_7$	{23456, 256, 357}
831:16	$0, 0, 0, 0, 0, \frac{18}{503}\sqrt{202}e^{12}, \frac{2}{503}\sqrt{13534}e^{34}, \frac{4}{503}\sqrt{2121}e^{15} + \frac{18}{503}\sqrt{202}e^{26}$	$(-\frac{6}{503}, \frac{78}{503}, \frac{39}{503}, -\frac{163}{503}, \frac{156}{503}, \frac{72}{503}, -\frac{124}{503}, \frac{150}{503})$ $+ \frac{202}{503}e^3 \otimes e_4 + \frac{2}{503}\sqrt{33330}e^2 \otimes e_7$	{135678, 145678, 357, 457}
831:16	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{438}e^{12}, \frac{1}{47}\sqrt{511}e^{34}, \frac{1}{47}\sqrt{219}e^{15} + \frac{1}{47}\sqrt{438}e^{26}$	$(\frac{6}{47}, \frac{9}{94}, \frac{87}{94}, -\frac{59}{94}, \frac{9}{47}, \frac{21}{94}, \frac{14}{47}, \frac{15}{47})$ $+ \frac{73}{47}e^3 \otimes e_4$	{12378, 12478, 13678, 14678, 2367, 2467, 37, 47}
831:16	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{12}, \frac{1}{29}\sqrt{55}e^{34}, \frac{1}{29}\sqrt{66}e^{15} + \frac{1}{29}\sqrt{77}e^{26}$	$(\frac{13}{29}, -\frac{9}{58}, \frac{27}{58}, -\frac{17}{58}, -\frac{9}{58}, \frac{17}{58}, \frac{5}{29}, \frac{2}{9})$ $+ \frac{1}{29}\sqrt{627}e^1 \otimes e_5 + \frac{22}{29}e^3 \otimes e_4$	{23567, 24567, 357, 457}
831:16	$0, 0, 0, 0, 0, \frac{20}{303}\sqrt{87}e^{12}, \frac{4}{303}\sqrt{2929}e^{34}, \frac{4}{303}\sqrt{2262}e^{15} + \frac{4}{303}\sqrt{174}e^{26}$	$(\frac{50}{101}, -\frac{3}{101}, -\frac{41}{303}, -\frac{41}{303}, -\frac{6}{101}, \frac{47}{101}, -\frac{82}{303}, \frac{44}{101})$ $+ \frac{12}{101}\sqrt{87}e^1 \otimes e_7$	{12345, 125, 13456, 156, 235678, 3578}
831:16	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{202}e^{12}, \frac{1}{201}\sqrt{13534}e^{34}, \frac{2}{201}\sqrt{2121}e^{15} + \frac{3}{67}\sqrt{202}e^{26}$	$(-\frac{1}{67}, \frac{13}{67}, -\frac{31}{201}, -\frac{31}{201}, \frac{26}{67}, \frac{12}{67}, -\frac{62}{201}, \frac{25}{67})$ $+ \frac{1}{201}\sqrt{33330}e^2 \otimes e_7$	{123458, 1258, 135678, 23456, 256, 357}
831:16	$0, 0, 0, 0, 0, \frac{8}{643}\sqrt{181}e^{12}, \frac{2}{1929}\sqrt{116383}e^{34}, \frac{2}{643}\sqrt{12851}e^{15} + \frac{4}{1929}\sqrt{7059}e^{26}$	$(-\frac{96}{643}, \frac{65}{643}, \frac{464}{1929}, -\frac{436}{1929}, \frac{130}{643}, -\frac{31}{643}, \frac{28}{1929}, \frac{34}{643})$ $+ \frac{20}{643}\sqrt{181}e^3 \otimes e_8 + \frac{2}{1929}\sqrt{148782}e^5 \otimes e_7$	{123456, 1345, 258, 568}
831:16	$0, 0, 0, 0, 0, \frac{8}{541}\sqrt{209}e^{12}, \frac{4}{1623}\sqrt{11902}e^{34}, \frac{16}{1623}\sqrt{33}e^{15} + \frac{4}{541}\sqrt{1342}e^{26}$	$(-\frac{40}{541}, \frac{37}{541}, \frac{278}{1623}, -\frac{343}{1623}, \frac{74}{541}, -\frac{3}{541}, -\frac{65}{1623}, \frac{34}{541})$ $+ \frac{4}{541}\sqrt{1518}e^3 \otimes e_8 + \frac{8}{1623}\sqrt{4422}e^2 \otimes e_7$	{1258, 145678, 23456, 357}
831:16	$0, 0, 0, 0, 0, \frac{4}{123}\sqrt{33}e^{12}, \frac{2}{123}\sqrt{451}e^{34}, \frac{22}{123}\sqrt{3}e^{15} + \frac{4}{123}\sqrt{33}e^{26}$	$(\frac{8}{41}, -\frac{3}{41}, \frac{28}{123}, -\frac{26}{123}, -\frac{6}{41}, \frac{5}{41}, \frac{2}{123}, \frac{2}{41})$ $+ \frac{2}{41}\sqrt{66}e^1 \otimes e_7 + \frac{2}{41}\sqrt{66}e^3 \otimes e_8$	{128, 168, 2367, 37}
831:16	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{66}e^{12}, \frac{1}{6}\sqrt{22}e^{34}, \frac{1}{4}\sqrt{11}e^{15} + \frac{1}{24}\sqrt{66}e^{26}$	$(-\frac{1}{8}, \frac{5}{16}, -\frac{7}{48}, -\frac{7}{48}, \frac{5}{8}, \frac{3}{16}, -\frac{7}{24}, \frac{1}{2})$ $+ \frac{1}{24}\sqrt{858}e^5 \otimes e_7$	{123678, 1378, 237, 367}
831:17	$0, 0, 0, 0, 0, \frac{6}{1073}\sqrt{8357}e^{12}, \frac{6}{1073}\sqrt{10919}e^{13} + \frac{12}{1073}\sqrt{366}e^{24}, \frac{6}{1073}\sqrt{18910}e^{16} + \frac{6}{1073}\sqrt{19642}e^{34}$	$(-\frac{60}{1073}, \frac{95}{1073}, \frac{65}{1073}, -\frac{90}{1073}, 1, \frac{35}{1073}, \frac{5}{1073}, -\frac{25}{1073})$ $+ \frac{6}{1073}\sqrt{52765}e^5 \otimes e_8$	{2368, 24678, 345, 57}
831:17	$0, 0, 0, 0, 0, \frac{6}{1073}\sqrt{18910}e^{12}, \frac{6}{1073}\sqrt{10919}e^{13} + \frac{6}{1073}\sqrt{19642}e^{24}, \frac{6}{1073}\sqrt{8357}e^{16} + \frac{12}{1073}\sqrt{366}e^{34}$	$(-\frac{60}{1073}, \frac{441}{1073}, \frac{411}{1073}, -\frac{90}{1073}, -\frac{657}{1073}, \frac{381}{1073}, \frac{351}{1073}, \frac{321}{1073})$ $+ \frac{6}{1073}\sqrt{52765}e^2 \otimes e_5$	{23468, 2678, 35, 457}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:17	$0, 0, 0, 0, 0, \frac{4}{27}\sqrt{23}e^{12}, \frac{1}{27}\sqrt{230}e^{13} + \frac{2}{27}\sqrt{23}e^{24},$ $\frac{4}{27}\sqrt{23}e^{16} + \frac{2}{27}\sqrt{23}e^{34}$	$(\frac{2}{9}, -\frac{1}{27}, \frac{2}{27}, \frac{1}{3}, -\frac{17}{27}, \frac{5}{27}, \frac{8}{27}, \frac{11}{27})$ $+\frac{2}{27}\sqrt{253}e^1 \otimes e_5$	{2345678, 2568, 357, 45}
831:17	$0, 0, 0, 0, 0, \frac{8}{211}\sqrt{21}e^{12}, \frac{112}{211}e^{13} + \frac{8}{211}\sqrt{413}e^{24},$ $\frac{8}{211}\sqrt{21}e^{16} + \frac{8}{211}\sqrt{413}e^{34}$	$(\frac{62}{211}, -\frac{22}{211}, \frac{9}{211}, \frac{93}{211}, -\frac{131}{211}, \frac{40}{211}, \frac{71}{211}, \frac{102}{211})$ $+\frac{24}{211}\sqrt{133}e^4 \otimes e_5$	{123578, 1248, 13467, 156}
831:18	$0, 0, 0, 0, 0, \frac{3}{577}\sqrt{17930}e^{12}, \frac{132}{577}\sqrt{5}e^{13} + \frac{12}{577}\sqrt{1265}e^{45},$ $\frac{3}{577}\sqrt{3190}e^{16} + \frac{9}{577}\sqrt{770}e^{34}$	$(-\frac{168}{577}, \frac{414}{577}, \frac{87}{577}, -\frac{9}{577}, -\frac{72}{577}, \frac{246}{577}, -\frac{81}{577}, \frac{78}{577})$ $+\frac{15}{577}\sqrt{2046}e^2 \otimes e_7$	{123458, 1467, 268, 357}
831:18	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{6882}e^{12}, \frac{2}{361}\sqrt{5106}e^{13} + \frac{6}{361}\sqrt{370}e^{45},$ $\frac{6}{361}\sqrt{370}e^{16} + \frac{12}{361}\sqrt{851}e^{34}$	$(\frac{77}{361}, \frac{39}{361}, -\frac{45}{361}, \frac{238}{361}, -\frac{206}{361}, \frac{116}{361}, \frac{32}{361}, \frac{193}{361})$ $+\frac{6}{361}\sqrt{7178}e^4 \otimes e_5$	{125, 1468, 2346, 358}
831:18	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{330}e^{12}, \frac{1}{77}\sqrt{330}e^{13} + \frac{1}{77}\sqrt{1122}e^{45},$ $\frac{2}{77}\sqrt{429}e^{16} + \frac{2}{77}\sqrt{66}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{2}{7}, 0)$ $+\frac{4}{77}\sqrt{165}e^5 \otimes e_8 + \frac{9}{77}\sqrt{22}e^1 \otimes e_2$	{2368, 24678}
831:18	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{10}e^{12}, \frac{6}{17}\sqrt{5}e^{13} + \frac{3}{34}\sqrt{2}e^{45},$ $\frac{3}{17}\sqrt{19}e^{16} + \frac{9}{17}e^{34}$	$(\frac{63}{136}, -\frac{81}{136}, \frac{3}{136}, \frac{21}{68}, \frac{3}{17}, -\frac{9}{68}, \frac{33}{68}, \frac{45}{136})$ $+\frac{3}{34}\sqrt{222}e^1 \otimes e_2$	{13458, 1578, 2357, 245}
831:18	$0, 0, 0, 0, 0, \frac{39}{2527}\sqrt{986}e^{12}, \frac{156}{2527}\sqrt{23}e^{13} + \frac{156}{2527}\sqrt{53}e^{45},$ $\frac{39}{2527}\sqrt{26}e^{16} + \frac{117}{2527}\sqrt{46}e^{34}$	$(-\frac{312}{2527}, \frac{1170}{2527}, -\frac{39}{2527}, \frac{585}{2527}, -\frac{936}{2527}, \frac{858}{2527}, -\frac{351}{2527}, \frac{78}{361})$ $+\frac{39}{2527}\sqrt{2622}e^2 \otimes e_7 + \frac{936}{2527}\sqrt{3}e^4 \otimes e_5$	{14678, 3578}
831:18	$0, 0, 0, 0, 0, \frac{3}{91}\sqrt{7}e^{12}, \frac{3}{91}\sqrt{182}e^{13} + \frac{3}{13}e^{45},$ $\frac{3}{91}\sqrt{154}e^{16} + \frac{9}{91}\sqrt{14}e^{34}$	$(\frac{9}{26}, -\frac{9}{26}, -\frac{3}{26}, \frac{6}{13}, -\frac{3}{13}, 0, \frac{3}{13}, \frac{9}{26})$ $+\frac{18}{91}\sqrt{14}e^4 \otimes e_5 + \frac{3}{91}\sqrt{609}e^1 \otimes e_2$	{1358, 25}
831:18	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{285}e^{12}, \frac{6}{91}\sqrt{15}e^{13} + \frac{8}{91}\sqrt{30}e^{45},$ $\frac{20}{91}\sqrt{3}e^{16} + \frac{4}{91}\sqrt{15}e^{34}$	$(-\frac{18}{91}, \frac{29}{91}, \frac{17}{91}, -\frac{24}{91}, \frac{23}{91}, \frac{11}{91}, -\frac{1}{91}, -\frac{1}{13})$ $+\frac{12}{91}\sqrt{15}e^2 \otimes e_7 + \frac{2}{91}\sqrt{645}e^5 \otimes e_8$	{2368, 57}
831:18	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{105}e^{12}, \frac{2}{43}\sqrt{195}e^{13} + \frac{8}{43}\sqrt{15}e^{45},$ $\frac{8}{43}\sqrt{15}e^{16} + \frac{4}{43}\sqrt{30}e^{34}$	$(-\frac{2}{43}, \frac{1}{43}, \frac{13}{43}, -\frac{16}{43}, \frac{27}{43}, -\frac{1}{43}, \frac{11}{43}, -\frac{3}{43})$ $+\frac{10}{43}\sqrt{21}e^5 \otimes e_8$	{2368, 24678, 345, 57}
831:19	$0, 0, 0, 0, 0, \frac{32}{1287}\sqrt{334}e^{12}, \frac{32}{1287}\sqrt{285}e^{13} + \frac{64}{1287}\sqrt{113}e^{45},$ $\frac{32}{1287}\sqrt{547}e^{26} + \frac{32}{1287}\sqrt{354}e^{34}$	$(-\frac{397}{1287}, \frac{406}{1287}, \frac{97}{429}, \frac{124}{1287}, -\frac{230}{1287}, \frac{1}{143}, -\frac{106}{1287}, \frac{415}{1287})$ $+\frac{32}{1287}\sqrt{1065}e^2 \otimes e_7$	{123458, 15678, 2456, 357}
831:19	$0, 0, 0, 0, 0, \frac{6}{1277}\sqrt{8437}e^{12}, \frac{354}{1277}\sqrt{3}e^{13} + \frac{6}{1277}\sqrt{24013}e^{45},$ $\frac{12}{1277}\sqrt{5133}e^{26} + \frac{6}{1277}\sqrt{13747}e^{34}$	$(\frac{286}{1277}, -\frac{239}{1277}, \frac{196}{1277}, -\frac{388}{1277}, \frac{870}{1277}, \frac{47}{1277}, \frac{482}{1277}, -\frac{192}{1277})$ $+\frac{30}{1277}\sqrt{2419}e^5 \otimes e_8$	{23456, 2567, 345, 57}
831:19	$0, 0, 0, 0, 0, \frac{17}{3341}\sqrt{1290}e^{12}, \frac{17}{3341}\sqrt{498}e^{13} + \frac{170}{3341}\sqrt{23}e^{45},$ $\frac{51}{3341}\sqrt{274}e^{26} + \frac{34}{3341}\sqrt{179}e^{34}$	$(-\frac{493}{3341}, \frac{306}{3341}, \frac{510}{3341}, -\frac{391}{3341}, \frac{408}{3341}, -\frac{187}{3341}, \frac{17}{3341}, \frac{119}{3341})$ $+\frac{17}{3341}\sqrt{2314}e^5 \otimes e_8 + \frac{17}{3341}\sqrt{3566}e^2 \otimes e_7$	{2456, 357}
831:19	$0, 0, 0, 0, 0, \frac{13}{437}\sqrt{210}e^{12}, \frac{13}{437}\sqrt{165}e^{13} + \frac{39}{437}\sqrt{30}e^{45},$ $\frac{65}{437}\sqrt{13}e^{26} + \frac{78}{437}\sqrt{5}e^{34}$	$(-\frac{117}{437}, \frac{130}{437}, \frac{78}{437}, \frac{65}{437}, -\frac{104}{437}, \frac{13}{437}, -\frac{39}{437}, \frac{143}{437})$ $+\frac{13}{437}\sqrt{654}e^2 \otimes e_7 + \frac{13}{437}\sqrt{79}e^4 \otimes e_5$	{15678, 357}
831:19	$0, 0, 0, 0, 0, \frac{6}{293}\sqrt{537}e^{12}, \frac{1}{293}\sqrt{18258}e^{13} + \frac{4}{293}\sqrt{537}e^{45},$ $\frac{1}{293}\sqrt{14678}e^{26} + \frac{6}{293}\sqrt{2327}e^{34}$	$(\frac{54}{293}, \frac{49}{293}, -\frac{36}{293}, \frac{188}{293}, -\frac{170}{293}, \frac{103}{293}, \frac{18}{293}, \frac{152}{293})$ $+\frac{5}{293}\sqrt{6802}e^4 \otimes e_5$	{125, 156, 23568, 358}
831:20	$0, 0, 0, 0, 0, \frac{9}{239}\sqrt{86}e^{12}, \frac{9}{239}\sqrt{86}e^{14} + \frac{63}{239}\sqrt{2}e^{23},$ $\frac{63}{239}\sqrt{2}e^{13} + \frac{18}{239}\sqrt{6}e^{26}$	$(\frac{135}{478}, -\frac{9}{239}, -\frac{18}{239}, -\frac{189}{478}, \frac{135}{239}, \frac{117}{478}, -\frac{27}{239}, \frac{99}{478})$ $+\frac{36}{239}\sqrt{26}e^1 \otimes e_4 + \frac{36}{239}\sqrt{26}e^5 \otimes e_7$	{1367, 3478}
831:20	$0, 0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{53}\sqrt{14}e^{14} + \frac{10}{53}e^{23},$ $\frac{5}{53}\sqrt{30}e^{13} + \frac{5}{53}\sqrt{10}e^{26}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{15}{53}, -\frac{5}{53}, \frac{15}{53}, 0)$ $+\frac{10}{53}\sqrt{13}e^4 \otimes e_8 + \frac{5}{53}\sqrt{42}e^3 \otimes e_5$	{12346, 238}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:20	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{626e^{12}}, \frac{3}{256}\sqrt{6886e^{14}} + \frac{1}{256}\sqrt{11581e^{23}},$ $\frac{1}{256}\sqrt{11581e^{13}} + \frac{1}{256}\sqrt{18154e^{26}}$	$(-\frac{53}{512}, \frac{87}{512}, \frac{87}{256}, \frac{157}{256}, -\frac{39}{64}, \frac{17}{256}, \frac{261}{512}, \frac{121}{512})$ $+ \frac{1}{128}\sqrt{32239e^4} \otimes e_5$	{1246, 157, 258, 4678}
831:20	$0, 0, 0, 0, 0, \frac{35}{247}\sqrt{6e^{12}}, \frac{35}{247}\sqrt{6e^{14}} + \frac{7}{247}\sqrt{22e^{23}},$ $\frac{7}{247}\sqrt{22e^{13}} + \frac{14}{247}\sqrt{86e^{26}}$	$(-\frac{77}{494}, \frac{21}{247}, \frac{42}{247}, \frac{203}{494}, -\frac{77}{247}, -\frac{35}{494}, \frac{63}{247}, \frac{7}{494})$ $+ \frac{84}{247}\sqrt{3e^2} \otimes e_5 + \frac{84}{247}\sqrt{3e^4} \otimes e_8$	{12378, 23467}
831:20	$0, 0, 0, 0, 0, \frac{3}{253}\sqrt{4454e^{12}}, \frac{1}{253}\sqrt{14410e^{14}} + \frac{1}{253}\sqrt{13886e^{23}},$ $\frac{1}{253}\sqrt{40610e^{13}} + \frac{2}{253}\sqrt{262e^{26}}$	$(\frac{1}{2}, -\frac{3}{253}, -\frac{6}{253}, -\frac{271}{506}, \frac{45}{253}, \frac{247}{506}, -\frac{9}{253}, \frac{241}{506})$ $+ \frac{8}{253}\sqrt{1703e^1} \otimes e_4$	{1356, 136, 3458, 348}
831:20	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{462e^{12}}, \frac{1}{29}\sqrt{66e^{14}} + \frac{11}{29}\sqrt{2e^{23}},$ $\frac{1}{29}\sqrt{286e^{13}} + \frac{2}{29}\sqrt{110e^{26}}$	$(\frac{5}{58}, \frac{3}{29}, \frac{6}{29}, \frac{13}{58}, -\frac{19}{29}, \frac{11}{58}, \frac{9}{29}, \frac{17}{58})$ $+ \frac{4}{29}\sqrt{66e^2} \otimes e_5$	{1238, 1345678, 2346, 357}
831:20	$0, 0, 0, 0, 0, \frac{102}{653}\sqrt{2e^{12}}, \frac{17}{653}\sqrt{210e^{14}} + \frac{238}{653}e^{23},$ $\frac{17}{653}\sqrt{478e^{13}} + \frac{17}{653}\sqrt{186e^{26}}$	$(\frac{170}{653}, \frac{17}{653}, \frac{34}{653}, -\frac{119}{653}, -\frac{255}{653}, \frac{187}{653}, \frac{51}{653}, \frac{204}{653})$ $+ \frac{17}{653}\sqrt{626e^3} \otimes e_5 + \frac{34}{653}\sqrt{141e^1} \otimes e_4$	{123, 23468}
831:20	$0, 0, 0, 0, 0, \frac{1}{253}\sqrt{14410e^{12}}, \frac{3}{253}\sqrt{4454e^{14}} + \frac{1}{253}\sqrt{40610e^{23}},$ $\frac{1}{253}\sqrt{13886e^{13}} + \frac{2}{253}\sqrt{262e^{26}}$	$(\frac{45}{506}, -\frac{3}{253}, -\frac{6}{253}, -\frac{63}{506}, 1, \frac{39}{506}, -\frac{9}{253}, \frac{3}{46})$ $+ \frac{8}{253}\sqrt{1703e^5} \otimes e_7$	{1234568, 1378, 235, 3467}
831:20	$0, 0, 0, 0, 0, \frac{18}{349}\sqrt{13e^{12}}, \frac{18}{349}\sqrt{55e^{14}} + \frac{18}{349}\sqrt{41e^{23}},$ $\frac{45}{349}\sqrt{6e^{13}} + \frac{18}{349}\sqrt{35e^{26}}$	$(-\frac{30}{349}, \frac{21}{349}, \frac{42}{349}, \frac{93}{349}, -\frac{111}{349}, -\frac{9}{349}, \frac{63}{349}, \frac{12}{349})$ $+ \frac{18}{349}\sqrt{73e^1} \otimes e_5 + \frac{36}{349}\sqrt{21e^4} \otimes e_8$	{1678, 457}
831:20	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{114e^{12}}, \frac{1}{20}\sqrt{114e^{14}} + \frac{1}{20}\sqrt{285e^{23}},$ $\frac{1}{20}\sqrt{285e^{13}} + \frac{1}{10}\sqrt{38e^{26}}$	$(\frac{3}{40}, \frac{1}{8}, \frac{1}{4}, \frac{3}{10}, -\frac{7}{10}, \frac{1}{5}, \frac{3}{8}, \frac{13}{40})$ $+ \frac{1}{20}\sqrt{646e^3} \otimes e_5$	{1245678, 158, 257, 456}
831:20	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{66e^{12}}, \frac{1}{29}\sqrt{462e^{14}} + \frac{1}{29}\sqrt{286e^{23}},$ $\frac{11}{29}\sqrt{2e^{13}} + \frac{2}{29}\sqrt{110e^{26}}$	$(-\frac{19}{58}, \frac{3}{29}, \frac{6}{29}, \frac{37}{58}, \frac{5}{29}, -\frac{13}{58}, \frac{9}{29}, -\frac{7}{58})$ $+ \frac{4}{29}\sqrt{66e^4} \otimes e_8$	{134, 1345, 3568, 368}
831:20	$0, 0, 0, 0, 0, \frac{5}{259}\sqrt{66e^{12}}, \frac{5}{259}\sqrt{66e^{14}} + \frac{10}{259}\sqrt{187e^{23}},$ $\frac{5}{259}\sqrt{1562e^{13}} + \frac{10}{259}\sqrt{407e^{26}}$	$(-\frac{4}{37}, \frac{6}{259}, \frac{12}{259}, \frac{46}{259}, 1, -\frac{22}{259}, \frac{18}{259}, -\frac{16}{259})$ $+ \frac{10}{259}\sqrt{1155e^5} \otimes e_8$	{1248, 1678, 256, 457}
831:20	$0, 0, 0, 0, 0, \frac{222}{3061}\sqrt{26e^{12}}, \frac{74}{3061}\sqrt{115e^{14}} + \frac{74}{3061}\sqrt{209e^{23}},$ $\frac{37}{3061}\sqrt{1910e^{13}} + \frac{148}{3061}\sqrt{47e^{26}}$	$(\frac{518}{3061}, -\frac{111}{3061}, -\frac{222}{3061}, -\frac{851}{3061}, \frac{1665}{3061}, \frac{407}{3061}, -\frac{333}{3061}, \frac{296}{3061})$ $+ \frac{1110}{3061}\sqrt{3e^5} \otimes e_8 + \frac{74}{3061}\sqrt{698e^1} \otimes e_4$	{128, 2456}
831:20	$0, 0, 0, 0, 0, \frac{72}{263}\sqrt{6e^{12}}, \frac{72}{263}\sqrt{6e^{14}} + \frac{90}{263}\sqrt{3e^{23}},$ $\frac{27}{263}\sqrt{38e^{13}} + \frac{18}{263}\sqrt{21e^{26}}$	$(\frac{78}{263}, \frac{21}{263}, \frac{42}{263}, -\frac{15}{263}, -\frac{165}{263}, \frac{99}{263}, \frac{63}{263}, \frac{120}{263})$ $+ \frac{18}{263}\sqrt{321e^1} \otimes e_5$	{1248, 1678, 256, 457}
831:21	$0, 0, 0, 0, 0, \frac{23}{3101}\sqrt{390e^{12}}, \frac{23}{3101}\sqrt{554e^{13}} + \frac{23}{3101}\sqrt{2382e^{24}},$ $\frac{69}{3101}\sqrt{86e^{16}} + \frac{23}{3101}\sqrt{1994e^{35}}$	$(\frac{414}{3101}, -\frac{667}{3101}, -\frac{391}{3101}, \frac{690}{3101}, \frac{552}{3101}, -\frac{253}{3101}, \frac{23}{3101}, \frac{23}{443})$ $+ \frac{46}{3101}\sqrt{610e^5} \otimes e_7 + \frac{92}{3101}\sqrt{194e^4} \otimes e_8$	{158, 2345}
831:21	$0, 0, 0, 0, 0, \frac{4}{73}\sqrt{61e^{12}}, \frac{1}{73}\sqrt{1830e^{13}} + \frac{2}{73}\sqrt{671e^{24}},$ $\frac{4}{73}\sqrt{61e^{16}} + \frac{2}{73}\sqrt{671e^{35}}$	$(\frac{14}{73}, -\frac{1}{73}, -\frac{24}{73}, -\frac{9}{73}, \frac{51}{73}, \frac{13}{73}, -\frac{10}{73}, \frac{27}{73})$ $+ \frac{2}{73}\sqrt{1830e^5} \otimes e_7$	{135, 147, 2378, 2458}
831:21	$0, 0, 0, 0, 0, \frac{3}{299}\sqrt{190e^{12}}, \frac{3}{299}\sqrt{3534e^{13}} + \frac{3}{299}\sqrt{4902e^{24}},$ $\frac{42}{299}\sqrt{19e^{16}} + \frac{42}{299}\sqrt{19e^{35}}$	$(\frac{41}{299}, -\frac{83}{299}, \frac{2}{13}, \frac{170}{299}, -\frac{47}{299}, -\frac{42}{299}, \frac{87}{299}, -\frac{1}{299})$ $+ \frac{12}{299}\sqrt{589e^4} \otimes e_8$	{12378, 134567, 25678, 47}
831:21	$0, 0, 0, 0, 0, \frac{23}{733}\sqrt{222e^{12}}, \frac{23}{733}\sqrt{246e^{13}} + \frac{161}{733}\sqrt{2e^{24}},$ $\frac{69}{733}\sqrt{2e^{16}} + \frac{69}{733}\sqrt{2e^{35}}$	$(-\frac{138}{733}, \frac{345}{733}, \frac{299}{733}, -\frac{184}{733}, -\frac{230}{733}, \frac{207}{733}, \frac{161}{733}, \frac{69}{733})$ $+ \frac{184}{733}\sqrt{10e^2} \otimes e_4 + \frac{46}{733}\sqrt{163e^3} \otimes e_5$	{123, 256}
831:21	$0, 0, 0, 0, 0, \frac{195}{2557}\sqrt{14e^{12}}, \frac{39}{2557}\sqrt{470e^{13}} + \frac{39}{2557}\sqrt{866e^{24}},$ $\frac{39}{2557}\sqrt{286e^{16}} + \frac{273}{2557}\sqrt{22e^{35}}$	$(\frac{78}{2557}, \frac{585}{2557}, -\frac{429}{2557}, -\frac{936}{2557}, \frac{1170}{2557}, \frac{663}{2557}, -\frac{351}{2557}, \frac{741}{2557})$ $+ \frac{156}{2557}\sqrt{106e^2} \otimes e_4 + \frac{78}{2557}\sqrt{682e^5} \otimes e_7$	{127, 3478}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:21	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{7}{17}\sqrt{6}e^{13} + \frac{1}{17}\sqrt{42}e^{24},$ $\frac{1}{17}\sqrt{42}e^{16} + \frac{1}{17}\sqrt{42}e^{35}$	$(-\frac{2}{17}, \frac{5}{17}, \frac{11}{17}, \frac{4}{17}, -\frac{10}{17}, \frac{3}{17}, \frac{9}{17}, \frac{1}{17})$ $+ \frac{14}{17}\sqrt{3}e^3 \otimes e_5$	{134, 157, 367, 456}
831:21	$0, 0, 0, 0, 0, \frac{1}{291}\sqrt{77390}e^{12}, \frac{1}{291}\sqrt{20590}e^{13} + \frac{1}{291}\sqrt{4970}e^{24},$ $\frac{2}{291}\sqrt{3905}e^{16} + \frac{2}{291}\sqrt{3905}e^{35}$	$(-\frac{43}{291}, \frac{63}{97}, \frac{22}{97}, -\frac{166}{291}, \frac{37}{291}, \frac{146}{291}, \frac{23}{291}, \frac{103}{291})$ $+ \frac{4}{291}\sqrt{10295}e^2 \otimes e_4$	{1258, 146, 2368, 345}
831:21	$0, 0, 0, 0, 0, \frac{5}{143}\sqrt{6}e^{12}, \frac{5}{143}\sqrt{138}e^{13} + \frac{5}{143}\sqrt{282}e^{24},$ $\frac{5}{143}\sqrt{210}e^{16} + \frac{5}{143}\sqrt{210}e^{35}$	$(\frac{10}{143}, -\frac{25}{143}, \frac{35}{143}, \frac{70}{143}, -\frac{40}{143}, -\frac{15}{143}, \frac{45}{143}, -\frac{5}{143})$ $+ \frac{10}{143}\sqrt{39}e^3 \otimes e_5 + \frac{120}{143}e^4 \otimes e_8$	{158, 368}
831:22	$0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{4}{35}\sqrt{21}e^{14} + \frac{6}{35}\sqrt{35}e^{23},$ $\frac{2}{35}\sqrt{105}e^{16} + \frac{3}{35}\sqrt{42}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{7}{10}, \frac{3}{10}, -\frac{1}{2}, 0, \frac{1}{2}, \frac{1}{5})$ $+ \frac{3}{35}\sqrt{266}e^3 \otimes e_5$	{1236, 124567, 234, 257}
831:22	$0, 0, 0, 0, 0, \frac{25}{343}\sqrt{42}e^{12}, \frac{5}{343}\sqrt{1022}e^{14} + \frac{5}{343}\sqrt{966}e^{23},$ $\frac{10}{343}\sqrt{399}e^{16} + \frac{20}{343}\sqrt{42}e^{35}$	$(\frac{15}{49}, -\frac{15}{49}, \frac{20}{49}, -\frac{10}{49}, -\frac{5}{49}, 0, \frac{5}{49}, \frac{15}{49})$ $+ \frac{10}{343}\sqrt{427}e^3 \otimes e_5 + \frac{10}{49}\sqrt{13}e^1 \otimes e_4$	{156, 45}
831:22	$0, 0, 0, 0, 0, \frac{15}{287}\sqrt{14}e^{12}, \frac{5}{287}\sqrt{742}e^{14} + \frac{5}{287}\sqrt{182}e^{23},$ $\frac{10}{287}\sqrt{105}e^{16} + \frac{50}{287}\sqrt{7}e^{35}$	$(-\frac{5}{41}, \frac{5}{41}, \frac{10}{41}, \frac{20}{41}, -\frac{15}{41}, 0, \frac{15}{41}, -\frac{5}{41})$ $+ \frac{10}{287}\sqrt{329}e^3 \otimes e_5 + \frac{10}{41}\sqrt{11}e^4 \otimes e_8$	{1378, 568}
831:22	$0, 0, 0, 0, 0, \frac{6}{251}\sqrt{1139}e^{12}, \frac{12}{251}\sqrt{170}e^{14} + \frac{2}{251}\sqrt{969}e^{23},$ $\frac{30}{251}\sqrt{51}e^{16} + \frac{2}{251}\sqrt{2703}e^{35}$	$(\frac{98}{251}, -\frac{135}{502}, \frac{119}{502}, -\frac{106}{251}, \frac{69}{251}, \frac{61}{502}, -\frac{8}{251}, \frac{257}{502})$ $+ \frac{6}{251}\sqrt{2363}e^1 \otimes e_4$	{12358, 156, 234568, 45}
831:22	$0, 0, 0, 0, 0, \frac{24}{509}\sqrt{15}e^{12}, \frac{8}{509}\sqrt{618}e^{14} + \frac{8}{509}\sqrt{69}e^{23},$ $\frac{8}{509}\sqrt{123}e^{16} + \frac{8}{509}\sqrt{573}e^{35}$	$(-\frac{72}{509}, \frac{116}{509}, -\frac{120}{509}, \frac{68}{509}, \frac{92}{509}, \frac{44}{509}, -\frac{4}{509}, -\frac{28}{509})$ $+ \frac{8}{509}\sqrt{678}e^4 \otimes e_8 - \frac{8}{509}\sqrt{705}e^5 \otimes e_7$	{123678, 1345, 258, 467}
831:22	$0, 0, 0, 0, 0, \frac{24}{509}\sqrt{15}e^{12}, \frac{8}{509}\sqrt{618}e^{14} + \frac{8}{509}\sqrt{69}e^{23},$ $\frac{8}{509}\sqrt{123}e^{16} + \frac{8}{509}\sqrt{573}e^{35}$	$(-\frac{72}{509}, \frac{116}{509}, -\frac{120}{509}, \frac{68}{509}, \frac{92}{509}, \frac{44}{509}, -\frac{4}{509}, -\frac{28}{509})$ $+ \frac{8}{509}\sqrt{678}e^4 \otimes e_8 + \frac{8}{509}\sqrt{705}e^5 \otimes e_7$	{123678, 1345, 258, 467}
831:23	$0, 0, 0, 0, 0, \frac{8}{377}\sqrt{418}e^{12}, \frac{2}{377}\sqrt{7486}e^{34},$ $\frac{2}{377}\sqrt{5738}e^{13} + \frac{2}{377}\sqrt{7486}e^{26} + \frac{2}{377}\sqrt{266}e^{45}$	$(\frac{1}{13}, \frac{4}{377}, \frac{8}{377}, -\frac{80}{377}, \frac{29}{377}, \frac{33}{377}, -\frac{72}{377}, \frac{37}{377})$ $+ \frac{38}{377}\sqrt{34}e^2 \otimes e_7$	{123458, 13678, 2346, 357}
831:23	$0, 0, 0, 0, 0, \frac{2}{455}\sqrt{574}e^{12}, \frac{1}{455}\sqrt{3178}e^{34},$ $\frac{2}{455}\sqrt{11}e^{13} + \frac{2}{455}\sqrt{658}e^{26} + \frac{12}{455}\sqrt{7}e^{45}$	$(\frac{1}{13}, -\frac{2}{65}, -\frac{4}{65}, \frac{1}{65}, 0, \frac{3}{65}, -\frac{3}{65}, \frac{1}{65})$ $+ \frac{1}{455}\sqrt{4102}e^2 \otimes e_7 + \frac{3}{455}\sqrt{182}e^4 \otimes e_5$	{2346, 357}
831:23	$0, 0, 0, 0, 0, \frac{2}{1121}\sqrt{81618}e^{12}, \frac{12}{1121}\sqrt{8251}e^{34},$ $\frac{4}{1121}\sqrt{22746}e^{13} + \frac{42}{1121}\sqrt{223}e^{26} + \frac{30}{1121}\sqrt{223}e^{45}$	$(\frac{244}{1121}, -\frac{39}{1121}, -\frac{78}{1121}, \frac{752}{1121}, -\frac{586}{1121}, \frac{205}{1121}, \frac{674}{1121}, \frac{166}{1121})$ $+ \frac{18}{1121}\sqrt{7359}e^4 \otimes e_5$	{2346, 23567, 34, 357}
831:23	$0, 0, 0, 0, 0, \frac{3}{577}\sqrt{17930}e^{12}, \frac{12}{577}\sqrt{1265}e^{34},$ $\frac{132}{577}\sqrt{5}e^{13} + \frac{3}{577}\sqrt{3190}e^{26} + \frac{9}{577}\sqrt{770}e^{45}$	$(\frac{326}{577}, -\frac{80}{577}, -\frac{160}{577}, -\frac{9}{577}, \frac{175}{577}, \frac{246}{577}, -\frac{169}{577}, \frac{166}{577})$ $+ \frac{15}{577}\sqrt{2046}e^1 \otimes e_7$	{128, 168, 2467, 47}
831:23	$0, 0, 0, 0, 0, \frac{2}{1133}\sqrt{82797}e^{12}, \frac{6}{1133}\sqrt{21809}e^{34},$ $\frac{2}{1133}\sqrt{118695}e^{13} + \frac{12}{1133}\sqrt{579}e^{26} + \frac{6}{1133}\sqrt{20651}e^{45}$	$(\frac{26}{103}, \frac{45}{1133}, \frac{90}{1133}, -\frac{436}{1133}, \frac{812}{1133}, \frac{331}{1133}, -\frac{346}{1133}, \frac{376}{1133})$ $+ \frac{6}{1133}\sqrt{58479}e^5 \otimes e_7$	{23456, 2367, 345, 37}
831:23	$0, 0, 0, 0, 0, \frac{38}{1773}\sqrt{38}e^{12}, \frac{76}{1773}\sqrt{159}e^{34},$ $\frac{76}{1773}\sqrt{17}e^{13} + \frac{38}{1773}\sqrt{115}e^{26} + \frac{38}{1773}\sqrt{203}e^{45}$	$(\frac{76}{197}, -\frac{247}{1773}, -\frac{494}{1773}, \frac{152}{591}, -\frac{266}{1773}, \frac{437}{1773}, -\frac{38}{1773}, \frac{190}{1773})$ $+ \frac{38}{1773}\sqrt{679}e^4 \otimes e_5 + \frac{76}{1773}\sqrt{221}e^1 \otimes e_7$	{2467, 47}
831:24	$0, 0, 0, 0, 0, \frac{3}{577}\sqrt{3190}e^{12}, \frac{9}{577}\sqrt{770}e^{14} + \frac{12}{577}\sqrt{1265}e^{35},$ $\frac{132}{577}\sqrt{5}e^{13} + \frac{3}{577}\sqrt{17930}e^{26}$	$(\frac{58}{577}, -\frac{80}{577}, -\frac{160}{577}, \frac{175}{577}, \frac{393}{577}, -\frac{22}{577}, \frac{233}{577}, -\frac{102}{577})$ $+ \frac{15}{577}\sqrt{2046}e^5 \otimes e_8$	{128, 168, 2567, 57}
831:24	$0, 0, 0, 0, 0, \frac{1}{2639}\sqrt{1590}e^{12}, \frac{3}{2639}\sqrt{62}e^{14} + \frac{4}{2639}\sqrt{129}e^{35},$ $\frac{8}{2639}\sqrt{23}e^{13} + \frac{15}{2639}\sqrt{10}e^{26}$	$(-\frac{2}{203}, \frac{8}{2639}, \frac{16}{2639}, \frac{33}{2639}, -\frac{9}{2639}, -\frac{18}{2639}, \frac{1}{377}, -\frac{10}{2639})$ $+ \frac{3}{2639}\sqrt{158}e^5 \otimes e_8 + \frac{4}{2639}\sqrt{202}e^2 \otimes e_7$	{13678, 2356}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:24	$0, 0, 0, 0, 0, \frac{5}{53}\sqrt{10}e^{12}, \frac{10}{53}\sqrt{3}e^{14} + \frac{5}{53}\sqrt{7}e^{35},$ $\frac{5}{53}\sqrt{42}e^{13} + \frac{5}{53}\sqrt{11}e^{26}$	$(\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, -\frac{15}{53}, -\frac{15}{53}, \frac{15}{53}, -\frac{5}{53}, \frac{20}{53})$ $+ \frac{5}{53}\sqrt{46}e^3 \otimes e_5 + \frac{5}{53}\sqrt{51}e^1 \otimes e_4$	{123, 136, 23468, 348}
831:24	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12}, \frac{3}{13}e^{14} + \frac{1}{26}\sqrt{78}e^{35},$ $\frac{2}{13}\sqrt{5}e^{13} + \frac{3}{26}\sqrt{10}e^{26}$	$(\frac{1}{26}, \frac{1}{13}, \frac{2}{13}, -\frac{3}{26}, -\frac{3}{13}, \frac{3}{26}, -\frac{1}{13}, \frac{5}{26})$ $+ \frac{2}{13}\sqrt{10}e^2 \otimes e_7 + \frac{3}{26}\sqrt{2}e^1 \otimes e_4$	{13678, 347}
831:24	$0, 0, 0, 0, 0, \frac{5}{53}\sqrt{10}e^{12}, \frac{10}{53}\sqrt{3}e^{14} + \frac{5}{53}\sqrt{7}e^{35},$ $\frac{5}{53}\sqrt{42}e^{13} + \frac{5}{53}\sqrt{11}e^{26}$	$(\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, -\frac{15}{53}, -\frac{15}{53}, \frac{15}{53}, -\frac{5}{53}, \frac{20}{53})$ $- \frac{5}{53}\sqrt{46}e^3 \otimes e_5 + \frac{5}{53}\sqrt{51}e^1 \otimes e_4$	{123, 136, 23468, 348}
831:24	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{30}e^{12}, \frac{1}{14}\sqrt{7}e^{14} + \frac{1}{28}\sqrt{30}e^{35},$ $\frac{1}{7}\sqrt{2}e^{13} + \frac{1}{7}\sqrt{3}e^{26}$	$(-\frac{3}{28}, \frac{1}{14}, \frac{1}{7}, \frac{3}{28}, -\frac{1}{7}, -\frac{1}{28}, 0, \frac{1}{28})$ $+ \frac{1}{28}\sqrt{26}e^4 \otimes e_8 + \frac{3}{14}\sqrt{2}e^2 \otimes e_7$	{13678, 347}
831:24	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{2}e^{14} + \frac{1}{7}\sqrt{6}e^{35}, \frac{1}{7}\sqrt{14}e^{13} + \frac{2}{7}e^{26}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, 0)$ $- \frac{1}{7}\sqrt{22}e^4 \otimes e_8 + \frac{4}{7}e^3 \otimes e_5$	{12346, 134, 238, 368}
831:24	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{2}e^{14} + \frac{1}{7}\sqrt{6}e^{35}, \frac{1}{7}\sqrt{14}e^{13} + \frac{2}{7}e^{26}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{1}{7}\sqrt{22}e^4 \otimes e_8 + \frac{4}{7}e^3 \otimes e_5$	{12346, 134, 238, 368}
831:24	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{14} + \frac{1}{7}\sqrt{7}e^{35},$ $\frac{1}{7}\sqrt{10}e^{13} + \frac{1}{7}\sqrt{5}e^{26}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{1}{7}\sqrt{17}e^1 \otimes e_4 + \frac{2}{7}\sqrt{5}e^5 \otimes e_8$	{128, 168}
831:24	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{114}e^{12}, \frac{4}{23}\sqrt{19}e^{14} + \frac{1}{23}\sqrt{114}e^{35},$ $\frac{1}{23}\sqrt{190}e^{13} + \frac{2}{23}\sqrt{57}e^{26}$	$(-\frac{6}{23}, \frac{1}{23}, \frac{2}{23}, \frac{15}{23}, \frac{7}{23}, -\frac{5}{23}, \frac{9}{23}, -\frac{4}{23})$ $+ \frac{19}{23}\sqrt{2}e^4 \otimes e_8$	{12346, 134, 238, 368}
831:24	$0, 0, 0, 0, 0, \frac{144}{389}e^{12}, \frac{72}{389}\sqrt{2}e^{14} + \frac{144}{389}e^{35},$ $\frac{16}{389}\sqrt{89}e^{13} + \frac{24}{389}\sqrt{42}e^{26}$	$(-\frac{5}{389}, \frac{38}{389}, \frac{76}{389}, -\frac{21}{389}, -\frac{102}{389}, \frac{33}{389}, -\frac{26}{389}, \frac{71}{389})$ $+ \frac{8}{389}\sqrt{658}e^2 \otimes e_7$	{123458, 13678, 2356, 347}
831:24	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{318}e^{12}, \frac{1}{43}\sqrt{159}e^{14} + \frac{1}{43}\sqrt{318}e^{35},$ $\frac{6}{43}\sqrt{53}e^{13} + \frac{1}{43}\sqrt{371}e^{26}$	$(-\frac{6}{43}, \frac{14}{43}, \frac{28}{43}, \frac{9}{43}, -\frac{25}{43}, \frac{8}{43}, \frac{3}{43}, \frac{22}{43})$ $+ \frac{1}{43}\sqrt{3763}e^3 \otimes e_5$	{12568, 158, 245, 456}
831:24	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{30}e^{12}, \frac{1}{23}\sqrt{15}e^{14} + \frac{1}{23}\sqrt{30}e^{35},$ $\frac{1}{23}\sqrt{10}e^{13} + \frac{1}{23}\sqrt{35}e^{26}$	$(\frac{2}{23}, 0, 0, -\frac{3}{23}, -\frac{1}{23}, \frac{2}{23}, -\frac{1}{23}, \frac{2}{23})$ $+ \frac{1}{23}\sqrt{19}e^3 \otimes e_5 + \frac{2}{23}\sqrt{14}e^2 \otimes e_7$	{123458, 2356}
831:24	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{19}e^{12}, \frac{9}{17}e^{14} + \frac{3}{34}\sqrt{2}e^{35},$ $\frac{6}{17}\sqrt{5}e^{13} + \frac{3}{34}\sqrt{10}e^{26}$	$(\frac{19}{34}, -\frac{1}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{3}{17}, \frac{1}{2}, \frac{1}{17}, \frac{15}{34})$ $+ \frac{3}{34}\sqrt{222}e^1 \otimes e_4$	{1235, 1356, 234568, 3458}
831:25	$0, 0, 0, 0, 0, \frac{36}{1151}\sqrt{74}e^{12}, \frac{72}{1151}\sqrt{94}e^{13} + \frac{36}{1151}\sqrt{509}e^{45},$ $\frac{36}{1151}\sqrt{391}e^{16} + \frac{36}{1151}\sqrt{354}e^{23}$	$(\frac{111}{1151}, -\frac{228}{1151}, \frac{222}{1151}, \frac{642}{1151}, -\frac{309}{1151}, -\frac{117}{1151}, \frac{333}{1151}, -\frac{6}{1151})$ $+ \frac{36}{1151}\sqrt{951}e^4 \otimes e_8$	{128, 1456, 25678, 47}
831:25	$0, 0, 0, 0, 0, \frac{42}{589}\sqrt{65}e^{12}, \frac{21}{589}\sqrt{110}e^{13} + \frac{42}{589}\sqrt{89}e^{45},$ $\frac{42}{589}\sqrt{14}e^{16} + \frac{252}{589}\sqrt{2}e^{23}$	$(-\frac{42}{589}, \frac{315}{589}, -\frac{84}{589}, -\frac{63}{589}, -\frac{63}{589}, \frac{273}{589}, -\frac{126}{589}, \frac{231}{589})$ $+ \frac{42}{589}\sqrt{237}e^2 \otimes e_7$	{123, 12345, 3478}
831:25	$0, 0, 0, 0, 0, \frac{12}{367}\sqrt{190}e^{12}, \frac{2}{367}\sqrt{570}e^{13} + \frac{4}{367}\sqrt{1995}e^{45},$ $\frac{12}{367}\sqrt{190}e^{16} + \frac{12}{367}\sqrt{95}e^{23}$	$(\frac{36}{367}, \frac{46}{367}, \frac{72}{367}, \frac{339}{367}, \frac{231}{367}, \frac{82}{367}, \frac{108}{367}, \frac{118}{367})$ $+ \frac{570}{367}e^4 \otimes e_5$	{24678, 25678, 47, 57}
831:25	$0, 0, 0, 0, 0, \frac{84}{1619}\sqrt{65}e^{12}, \frac{42}{1619}\sqrt{110}e^{13} + \frac{84}{1619}\sqrt{89}e^{45},$ $\frac{84}{1619}\sqrt{14}e^{16} + \frac{504}{1619}\sqrt{2}e^{23}$	$(-\frac{84}{1619}, \frac{630}{1619}, -\frac{168}{1619}, \frac{315}{1619}, -\frac{567}{1619}, \frac{546}{1619}, -\frac{252}{1619}, \frac{462}{1619})$ $+ \frac{84}{1619}\sqrt{237}e^2 \otimes e_7 + \frac{882}{1619}e^4 \otimes e_5$	{3478, 3578}
831:25	$0, 0, 0, 0, 0, \frac{35}{1013}\sqrt{30}e^{12}, \frac{7}{1013}\sqrt{870}e^{13} + \frac{14}{1013}\sqrt{579}e^{45},$ $\frac{14}{1013}\sqrt{231}e^{16} + \frac{7}{1013}\sqrt{1758}e^{23}$	$(-\frac{14}{1013}, \frac{105}{1013}, -\frac{28}{1013}, \frac{224}{1013}, -\frac{266}{1013}, \frac{91}{1013}, -\frac{42}{1013}, \frac{77}{1013})$ $+ \frac{7}{1013}\sqrt{2418}e^2 \otimes e_7 + \frac{98}{1013}\sqrt{15}e^4 \otimes e_8$	{128, 47}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:26	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{15}e^{12}, \frac{4}{17}\sqrt{3}e^{14} + \frac{1}{17}\sqrt{15}e^{35},$ $\frac{2}{17}\sqrt{3}e^{16} + \frac{4}{17}\sqrt{3}e^{23}$	$(-\frac{2}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, \frac{1}{17}, 0, -\frac{1}{17})$ $+ \frac{1}{17}\sqrt{42}e^2 \otimes e_7 + \frac{1}{17}\sqrt{51}e^4 \otimes e_8$	{258, 467}
831:26	$0, 0, 0, 0, 0, \frac{3}{175}\sqrt{381}e^{12}, \frac{12}{175}\sqrt{33}e^{14} + \frac{3}{175}\sqrt{381}e^{35},$ $\frac{3}{175}\sqrt{186}e^{16} + \frac{9}{175}\sqrt{74}e^{23}$	$(\frac{3}{35}, -\frac{39}{175}, \frac{6}{35}, \frac{18}{175}, \frac{3}{175}, -\frac{24}{175}, \frac{33}{175}, -\frac{9}{175})$ $+ \frac{9}{175}\sqrt{46}e^3 \otimes e_5 + \frac{9}{175}\sqrt{65}e^4 \otimes e_8$	{145, 258}
831:26	$0, 0, 0, 0, 0, \frac{9}{673}\sqrt{174}e^{12}, \frac{18}{673}\sqrt{303}e^{14} + \frac{9}{673}\sqrt{174}e^{35},$ $\frac{18}{673}\sqrt{213}e^{16} + \frac{27}{673}\sqrt{194}e^{23}$	$(\frac{36}{673}, \frac{144}{673}, \frac{72}{673}, -\frac{135}{673}, -\frac{171}{673}, \frac{180}{673}, -\frac{99}{673}, \frac{216}{673})$ $+ \frac{27}{673}\sqrt{178}e^3 \otimes e_5 + \frac{27}{673}\sqrt{226}e^2 \otimes e_7$	{124568, 258}
831:26	$0, 0, 0, 0, 0, \frac{2}{75}\sqrt{714}e^{12}, \frac{14}{25}\sqrt{2}e^{14} + \frac{2}{75}\sqrt{714}e^{35},$ $\frac{2}{75}\sqrt{714}e^{16} + \frac{28}{25}e^{23}$	$(\frac{1}{3}, -\frac{13}{75}, \frac{2}{3}, -\frac{3}{25}, -\frac{34}{75}, \frac{4}{25}, \frac{16}{75}, \frac{37}{75})$ $+ \frac{14}{25}\sqrt{6}e^3 \otimes e_5$	{124568, 145, 258, 56}
831:26	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{429}e^{12}, \frac{2}{85}\sqrt{759}e^{14} + \frac{2}{85}\sqrt{429}e^{35},$ $\frac{2}{85}\sqrt{330}e^{16} + \frac{2}{85}\sqrt{759}e^{23}$	$(-\frac{2}{17}, \frac{49}{85}, -\frac{4}{17}, -\frac{7}{85}, \frac{3}{85}, \frac{39}{85}, -\frac{1}{5}, \frac{29}{85})$ $+ \frac{6}{85}\sqrt{253}e^2 \otimes e_7$	{12345, 13678, 2356, 3478}
831:26	$0, 0, 0, 0, 0, \frac{3}{605}\sqrt{206}e^{12}, \frac{1}{605}\sqrt{1794}e^{14} + \frac{1}{605}\sqrt{1578}e^{35},$ $\frac{18}{605}\sqrt{7}e^{16} + \frac{2}{605}\sqrt{345}e^{23}$	$(\frac{2}{121}, -\frac{26}{605}, \frac{4}{121}, \frac{7}{605}, -\frac{3}{605}, -\frac{16}{605}, \frac{17}{605}, -\frac{6}{605})$ $+ \frac{3}{605}\sqrt{138}e^5 \otimes e_8 + \frac{3}{605}\sqrt{230}e^1 \otimes e_4$	{1356, 345}
831:26	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{39}e^{12}, \frac{2}{19}\sqrt{66}e^{14} + \frac{2}{19}\sqrt{39}e^{35},$ $\frac{2}{19}\sqrt{6}e^{16} + \frac{2}{19}\sqrt{66}e^{23}$	$(-\frac{1}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{8}{19}, \frac{9}{19}, -\frac{3}{19}, \frac{7}{19}, -\frac{4}{19})$ $+ \frac{6}{19}\sqrt{11}e^4 \otimes e_8$	{12678, 145, 258, 467}
831:26	$0, 0, 0, 0, 0, \frac{5}{313}\sqrt{1086}e^{12}, \frac{5}{313}\sqrt{690}e^{14} + \frac{20}{313}\sqrt{42}e^{35},$ $\frac{10}{313}\sqrt{237}e^{16} + \frac{5}{313}\sqrt{690}e^{23}$	$(\frac{20}{313}, \frac{40}{313}, \frac{40}{313}, -\frac{55}{313}, -\frac{75}{313}, \frac{60}{313}, -\frac{35}{313}, \frac{80}{313})$ $+ \frac{15}{313}\sqrt{138}e^1 \otimes e_4 + \frac{15}{313}\sqrt{46}e^2 \otimes e_7$	{12358, 234568}
831:26	$0, 0, 0, 0, 0, \frac{12}{79}\sqrt{19}e^{12}, \frac{4}{79}\sqrt{138}e^{14} + \frac{4}{79}\sqrt{102}e^{35},$ $\frac{12}{79}\sqrt{19}e^{16} + \frac{4}{79}\sqrt{138}e^{23}$	$(\frac{11}{79}, -\frac{1}{79}, \frac{22}{79}, -\frac{13}{79}, -\frac{24}{79}, \frac{10}{79}, -\frac{2}{79}, \frac{21}{79})$ $+ \frac{12}{79}\sqrt{23}e^1 \otimes e_4$	{12358, 1356, 234568, 345}
831:26	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{6}e^{12}, \frac{1}{25}\sqrt{183}e^{14} + \frac{1}{25}\sqrt{141}e^{35},$ $\frac{6}{25}\sqrt{6}e^{16} + \frac{6}{25}\sqrt{6}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{11}e^3 \otimes e_5 + \frac{3}{5}e^1 \otimes e_4$	{12358, 1356, 234568, 345}
831:26	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{6}e^{12}, \frac{1}{25}\sqrt{183}e^{14} + \frac{1}{25}\sqrt{141}e^{35},$ $\frac{6}{25}\sqrt{6}e^{16} + \frac{6}{25}\sqrt{6}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $- \frac{3}{25}\sqrt{11}e^3 \otimes e_5 + \frac{3}{5}e^1 \otimes e_4$	{12358, 1356, 234568, 345}
831:27	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{1}{37}\sqrt{266}e^{13},$ $\frac{5}{37}\sqrt{6}e^{14} + \frac{1}{37}\sqrt{58}e^{26} + \frac{1}{37}\sqrt{94}e^{35}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, \frac{12}{37}, -\frac{3}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{3}{37})$ $+ \frac{1}{37}\sqrt{214}e^3 \otimes e_5 + \frac{1}{37}\sqrt{386}e^2 \otimes e_7$	{2456, 347}
831:27	$0, 0, 0, 0, 0, \frac{102}{3457}\sqrt{58}e^{12}, \frac{17}{3457}\sqrt{2482}e^{13},$ $\frac{34}{3457}\sqrt{458}e^{14} + \frac{68}{3457}\sqrt{145}e^{26} + \frac{34}{3457}\sqrt{197}e^{35}$	$(\frac{221}{3457}, -\frac{34}{3457}, -\frac{544}{3457}, -\frac{68}{3457}, \frac{697}{3457}, \frac{187}{3457}, -\frac{323}{3457}, \frac{153}{3457})$ $+ \frac{17}{3457}\sqrt{3734}e^2 \otimes e_7 + \frac{51}{3457}\sqrt{286}e^1 \otimes e_4$	{2456, 347}
831:27	$0, 0, 0, 0, 0, \frac{72}{1063}\sqrt{71}e^{12}, \frac{4}{1063}\sqrt{28045}e^{13},$ $\frac{16}{1063}\sqrt{1349}e^{14} + \frac{4}{1063}\sqrt{35713}e^{26} + \frac{284}{1063}\sqrt{2}e^{35}$	$(-\frac{247}{1063}, \frac{236}{1063}, -\frac{85}{1063}, \frac{472}{1063}, \frac{310}{1063}, -\frac{11}{1063}, -\frac{332}{1063}, \frac{225}{1063})$ $+ \frac{4}{1063}\sqrt{63545}e^2 \otimes e_7$	{123458, 14678, 2456, 347}
831:27	$0, 0, 0, 0, 0, \frac{6}{1073}\sqrt{18910}e^{12}, \frac{6}{1073}\sqrt{19642}e^{13},$ $\frac{6}{1073}\sqrt{10919}e^{14} + \frac{6}{1073}\sqrt{8357}e^{26} + \frac{12}{1073}\sqrt{366}e^{35}$	$(\frac{620}{1073}, -\frac{239}{1073}, -\frac{90}{1073}, -\frac{478}{1073}, \frac{8}{37}, \frac{381}{1073}, \frac{530}{1073}, \frac{142}{1073})$ $+ \frac{6}{1073}\sqrt{52765}e^1 \otimes e_4$	{23467, 2456, 347, 45}
831:27	$0, 0, 0, 0, 0, \frac{10}{1033}\sqrt{1258}e^{12}, \frac{4}{1033}\sqrt{64787}e^{13},$ $\frac{16}{1033}\sqrt{629}e^{14} + \frac{6}{1033}\sqrt{8177}e^{26} + \frac{2}{1033}\sqrt{55981}e^{35}$	$(-\frac{100}{1033}, \frac{131}{1033}, \frac{710}{1033}, \frac{262}{1033}, -\frac{548}{1033}, \frac{31}{1033}, \frac{610}{1033}, \frac{162}{1033})$ $+ \frac{2}{1033}\sqrt{525215}e^3 \otimes e_5$	{1236, 12567, 13, 157}
831:27	$0, 0, 0, 0, 0, \frac{19}{809}\sqrt{247}e^{12}, \frac{19}{809}\sqrt{622}e^{13},$ $\frac{19}{809}\sqrt{262}e^{14} + \frac{76}{809}\sqrt{3}e^{26} + \frac{19}{809}\sqrt{263}e^{35}$	$(-\frac{247}{809}, \frac{171}{809}, \frac{228}{809}, \frac{342}{809}, -\frac{133}{809}, -\frac{76}{809}, -\frac{19}{809}, \frac{95}{809})$ $+ \frac{19}{809}\sqrt{803}e^4 \otimes e_7 + \frac{76}{809}\sqrt{42}e^3 \otimes e_5$	{12346, 134}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:27	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{4}{85}\sqrt{155}e^{13}, \frac{2}{85}\sqrt{230}e^{14} + \frac{12}{85}\sqrt{5}e^{26} + \frac{2}{85}\sqrt{130}e^{35}$	$(\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{8}{17}, 0) + \frac{18}{85}\sqrt{10}e^1 \otimes e_4 + \frac{2}{85}\sqrt{710}e^3 \otimes e_5$	{23467, 2456, 347, 45}
831:27	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{4}{85}\sqrt{155}e^{13}, \frac{2}{85}\sqrt{230}e^{14} + \frac{12}{85}\sqrt{5}e^{26} + \frac{2}{85}\sqrt{130}e^{35}$	$(\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{8}{17}, 0) + \frac{18}{85}\sqrt{10}e^1 \otimes e_4 - \frac{2}{85}\sqrt{710}e^3 \otimes e_5$	{23467, 2456, 347, 45}
831:28	$0, 0, 0, 0, 0, \frac{69}{539}\sqrt{22}e^{12}, \frac{46}{539}\sqrt{62}e^{13}, \frac{230}{539}e^{16} + \frac{46}{539}\sqrt{59}e^{23} + \frac{46}{539}\sqrt{6}e^{45}$	$(-\frac{69}{539}, \frac{46}{539}, -\frac{138}{539}, \frac{92}{539}, \frac{92}{539}, \frac{23}{539}, -\frac{207}{539}, \frac{184}{539}) + \frac{23}{539}\sqrt{870}e^2 \otimes e_7$	{123, 12345, 3478}
831:28	$0, 0, 0, 0, 0, \frac{8}{1027}\sqrt{1158}e^{12}, \frac{2}{1027}\sqrt{187982}e^{13}, \frac{2}{1027}\sqrt{79130}e^{16} + \frac{2}{1027}\sqrt{69866}e^{23} + \frac{2}{1027}\sqrt{181806}e^{45}$	$(-\frac{72}{1027}, \frac{391}{1027}, -\frac{144}{1027}, \frac{556}{1027}, -\frac{309}{1027}, \frac{319}{1027}, -\frac{216}{1027}, \frac{19}{79}) + \frac{2}{1027}\sqrt{333890}e^4 \otimes e_7$	{123468, 1345, 23578, 367}
831:28	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{489}e^{12}, \frac{4}{209}\sqrt{326}e^{13}, \frac{4}{209}\sqrt{326}e^{16} + \frac{2}{209}\sqrt{326}e^{23} + \frac{4}{209}\sqrt{489}e^{45}$	$(\frac{18}{209}, \frac{32}{209}, \frac{36}{209}, \frac{197}{209}, -\frac{129}{209}, \frac{50}{209}, \frac{54}{209}, \frac{68}{209}) + \frac{326}{209}e^4 \otimes e_5$	{12478, 12578, 2468, 2568}
831:28	$0, 0, 0, 0, 0, \frac{138}{1607}\sqrt{22}e^{12}, \frac{92}{1607}\sqrt{62}e^{13}, \frac{460}{1607}e^{16} + \frac{92}{1607}\sqrt{59}e^{23} + \frac{92}{1607}\sqrt{6}e^{45}$	$(-\frac{138}{1607}, \frac{644}{1607}, -\frac{276}{1607}, \frac{713}{1607}, -\frac{345}{1607}, \frac{506}{1607}, -\frac{414}{1607}, \frac{368}{1607}) + \frac{1058}{1607}e^4 \otimes e_5 + \frac{46}{1607}\sqrt{870}e^2 \otimes e_7$	{3478, 3578}
831:29	$0, 0, 0, 0, 0, \frac{19}{493}\sqrt{138}e^{12}, \frac{19}{493}\sqrt{142}e^{13}, \frac{38}{493}e^{16} + \frac{19}{493}\sqrt{2}e^{24} + \frac{38}{493}e^{35}$	$(-\frac{76}{493}, \frac{209}{493}, \frac{209}{493}, -\frac{152}{493}, -\frac{152}{493}, \frac{133}{493}, \frac{133}{493}, \frac{57}{493}) + \frac{19}{493}\sqrt{430}e^2 \otimes e_4 - \frac{228}{493}\sqrt{3}e^3 \otimes e_5$	{123, 1257, 2367, 256}
831:29	$0, 0, 0, 0, 0, \frac{19}{493}\sqrt{138}e^{12}, \frac{19}{493}\sqrt{142}e^{13}, \frac{38}{493}e^{16} + \frac{19}{493}\sqrt{2}e^{24} + \frac{38}{493}e^{35}$	$(-\frac{76}{493}, \frac{209}{493}, \frac{209}{493}, -\frac{152}{493}, -\frac{152}{493}, \frac{133}{493}, \frac{133}{493}, \frac{57}{493}) + \frac{19}{493}\sqrt{430}e^2 \otimes e_4 + \frac{228}{493}\sqrt{3}e^3 \otimes e_5$	{123, 1257, 2367, 256}
831:29	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{5610}e^{12}, \frac{1}{73}\sqrt{2210}e^{13}, \frac{10}{73}\sqrt{17}e^{16} + \frac{1}{73}\sqrt{2210}e^{24} + \frac{10}{73}\sqrt{17}e^{35}$	$(-\frac{16}{73}, \frac{53}{73}, \frac{17}{73}, -\frac{32}{73}, \frac{4}{73}, \frac{37}{73}, \frac{1}{73}, \frac{21}{73}) + \frac{1}{73}\sqrt{10030}e^2 \otimes e_4$	{134567, 146, 345, 47}
831:29	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{330}e^{12}, \frac{8}{73}\sqrt{55}e^{13}, \frac{1}{73}\sqrt{1430}e^{16} + \frac{8}{73}\sqrt{55}e^{24} + \frac{1}{73}\sqrt{1430}e^{35}$	$(-\frac{10}{73}, \frac{38}{73}, -\frac{7}{73}, -\frac{20}{73}, \frac{25}{73}, \frac{28}{73}, -\frac{17}{73}, \frac{18}{73}) + \frac{1}{73}\sqrt{6710}e^2 \otimes e_7$	{1234, 14678, 2456, 34578}
831:29	$0, 0, 0, 0, 0, \frac{14}{673}\sqrt{102}e^{12}, \frac{28}{673}\sqrt{163}e^{13}, \frac{14}{673}\sqrt{254}e^{16} + \frac{14}{673}\sqrt{478}e^{24} + \frac{14}{673}\sqrt{254}e^{35}$	$(-\frac{91}{673}, \frac{224}{673}, \frac{119}{673}, -\frac{182}{673}, -\frac{77}{673}, \frac{133}{673}, \frac{28}{673}, \frac{42}{673}) + \frac{14}{673}\sqrt{710}e^2 \otimes e_7 + \frac{42}{673}\sqrt{58}e^3 \otimes e_5$	{157, 367}
831:29	$0, 0, 0, 0, 0, \frac{28}{65}\sqrt{2}e^{12}, \frac{6}{65}\sqrt{70}e^{13}, \frac{14}{65}\sqrt{6}e^{16} + \frac{6}{65}\sqrt{70}e^{24} + \frac{14}{65}\sqrt{6}e^{35}$	$(\frac{2}{13}, -\frac{11}{65}, -\frac{18}{65}, \frac{4}{13}, \frac{27}{65}, -\frac{1}{65}, -\frac{8}{65}, \frac{9}{65}) + \frac{2}{65}\sqrt{826}e^4 \otimes e_7$	{12678, 157, 23578, 367}
831:29	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{462}e^{12}, \frac{6}{125}\sqrt{286}e^{13}, \frac{12}{125}\sqrt{33}e^{16} + \frac{2}{125}\sqrt{330}e^{24} + \frac{66}{125}\sqrt{2}e^{35}$	$(\frac{9}{125}, \frac{1}{5}, -\frac{49}{125}, \frac{18}{125}, \frac{92}{125}, \frac{34}{125}, -\frac{8}{25}, \frac{43}{125}) + \frac{12}{125}\sqrt{187}e^5 \otimes e_7$	{135, 17, 2378, 258}
831:29	$0, 0, 0, 0, 0, \frac{10}{629}\sqrt{122}e^{12}, \frac{5}{629}\sqrt{826}e^{13}, \frac{5}{629}\sqrt{366}e^{16} + \frac{10}{629}\sqrt{170}e^{24} + \frac{5}{629}\sqrt{366}e^{35}$	$(\frac{35}{629}, -\frac{75}{629}, \frac{10}{629}, \frac{70}{629}, -\frac{15}{629}, -\frac{40}{629}, \frac{45}{629}, -\frac{5}{629}) + \frac{5}{629}\sqrt{438}e^3 \otimes e_5 + \frac{5}{629}\sqrt{778}e^4 \otimes e_7$	{157, 367}
831:29	$0, 0, 0, 0, 0, \frac{37}{2125}\sqrt{762}e^{12}, \frac{37}{2125}\sqrt{326}e^{13}, \frac{148}{2125}\sqrt{7}e^{16} + \frac{37}{2125}\sqrt{330}e^{24} + \frac{74}{2125}\sqrt{218}e^{35}$	$(-\frac{222}{2125}, \frac{37}{85}, -\frac{333}{2125}, -\frac{444}{2125}, \frac{814}{2125}, \frac{703}{2125}, -\frac{111}{425}, \frac{481}{2125}) + \frac{148}{2125}\sqrt{123}e^5 \otimes e_7 + \frac{37}{425}\sqrt{70}e^2 \otimes e_4$	{1235, 127}
831:29	$0, 0, 0, 0, 0, \frac{1}{106}\sqrt{4233}e^{12}, \frac{3}{212}\sqrt{5478}e^{13}, \frac{3}{212}\sqrt{1411}e^{16} + \frac{1}{212}\sqrt{20418}e^{24} + \frac{3}{212}\sqrt{1411}e^{35}$	$(-\frac{3}{424}, \frac{31}{212}, \frac{277}{424}, -\frac{3}{212}, -\frac{221}{424}, \frac{59}{424}, \frac{137}{212}, \frac{7}{53}) + \frac{3}{106}\sqrt{2407}e^3 \otimes e_5$	{13, 157, 367, 56}
831:30	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{399}e^{12}, \frac{1}{24}\sqrt{399}e^{13} + \frac{7}{24}\sqrt{6}e^{24}, \frac{7}{24}\sqrt{6}e^{15} + \frac{1}{4}\sqrt{7}e^{26}$	$(\frac{1}{2}, -\frac{3}{16}, -\frac{11}{48}, \frac{11}{24}, -\frac{3}{8}, \frac{5}{16}, \frac{13}{48}, \frac{1}{8}) + \frac{1}{12}\sqrt{210}e^1 \otimes e_5$	{234567, 256, 357, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:30	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{30}e^{12}, \frac{4}{79}\sqrt{30}e^{13} + \frac{8}{79}\sqrt{15}e^{24},$ $\frac{8}{79}\sqrt{15}e^{15} + \frac{8}{79}\sqrt{15}e^{26}$	$(\frac{20}{79}, -\frac{14}{79}, \frac{6}{79}, \frac{40}{79}, -\frac{28}{79}, \frac{6}{79}, \frac{26}{79}, -\frac{8}{79})$ $+ \frac{12}{79}\sqrt{26}e^4 \otimes e_8 + \frac{4}{79}\sqrt{174}e^1 \otimes e_5$	{1278, 1368}
831:30	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1430}e^{12}, \frac{1}{73}\sqrt{1430}e^{13} + \frac{8}{73}\sqrt{55}e^{24},$ $\frac{8}{73}\sqrt{55}e^{15} + \frac{1}{73}\sqrt{330}e^{26}$	$(\frac{6}{73}, -\frac{10}{73}, \frac{25}{73}, \frac{41}{73}, -\frac{20}{73}, -\frac{4}{73}, \frac{31}{73}, -\frac{14}{73})$ $+ \frac{1}{73}\sqrt{6710}e^4 \otimes e_8$	{12456, 13457, 2578, 3568}
831:30	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{12986}e^{12}, \frac{4}{281}\sqrt{645}e^{13} + \frac{2}{281}\sqrt{8686}e^{24},$ $\frac{2}{281}\sqrt{8686}e^{15} + \frac{2}{281}\sqrt{13846}e^{26}$	$(-\frac{41}{281}, \frac{70}{281}, \frac{9}{281}, -\frac{102}{281}, \frac{140}{281}, \frac{29}{281}, -\frac{32}{281}, \frac{99}{281})$ $+ \frac{44}{281}\sqrt{43}e^2 \otimes e_4$	{12358, 134568, 256, 45}
831:30	$0, 0, 0, 0, 0, \frac{44}{497}\sqrt{14}e^{12}, \frac{165}{497}e^{13} + \frac{11}{497}\sqrt{206}e^{24},$ $\frac{11}{497}\sqrt{337}e^{15} + \frac{33}{497}\sqrt{2}e^{26}$	$(-\frac{121}{497}, \frac{66}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{11}{497}, \frac{11}{497})$ $+ \frac{11}{497}\sqrt{393}e^3 \otimes e_8 + \frac{11}{497}\sqrt{505}e^5 \otimes e_7$	{12678, 1478, 237, 3467}
831:30	$0, 0, 0, 0, 0, \frac{44}{497}\sqrt{14}e^{12}, \frac{165}{497}e^{13} + \frac{11}{497}\sqrt{206}e^{24},$ $\frac{11}{497}\sqrt{337}e^{15} + \frac{33}{497}\sqrt{2}e^{26}$	$(-\frac{121}{497}, \frac{66}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{11}{497}, \frac{11}{497})$ $+ \frac{11}{497}\sqrt{393}e^3 \otimes e_8 - \frac{11}{497}\sqrt{505}e^5 \otimes e_7$	{12678, 1478, 237, 3467}
831:30	$0, 0, 0, 0, 0, \frac{29}{2311}\sqrt{2}e^{12}, \frac{29}{2311}\sqrt{890}e^{13} + \frac{464}{2311}\sqrt{5}e^{24},$ $\frac{348}{2311}\sqrt{13}e^{15} + \frac{29}{2311}\sqrt{102}e^{26}$	$(\frac{638}{2311}, -\frac{348}{2311}, -\frac{203}{2311}, \frac{783}{2311}, -\frac{696}{2311}, \frac{290}{2311}, \frac{435}{2311}, -\frac{58}{2311})$ $+ \frac{116}{2311}\sqrt{111}e^1 \otimes e_3 + \frac{377}{2311}\sqrt{14}e^4 \otimes e_8$	{18, 234}
831:30	$0, 0, 0, 0, 0, \frac{26}{491}\sqrt{110}e^{12}, \frac{13}{491}\sqrt{3}e^{13} + \frac{13}{491}\sqrt{223}e^{24},$ $\frac{52}{491}\sqrt{7}e^{15} + \frac{26}{491}\sqrt{82}e^{26}$	$(\frac{52}{491}, \frac{52}{491}, -\frac{117}{491}, -\frac{117}{491}, \frac{104}{491}, \frac{104}{491}, -\frac{65}{491}, \frac{156}{491})$ $+ \frac{13}{491}\sqrt{553}e^2 \otimes e_4 + \frac{39}{491}\sqrt{37}e^1 \otimes e_3$	{1258, 14568, 2356, 345}
831:30	$0, 0, 0, 0, 0, \frac{26}{491}\sqrt{110}e^{12}, \frac{13}{491}\sqrt{3}e^{13} + \frac{13}{491}\sqrt{223}e^{24},$ $\frac{52}{491}\sqrt{7}e^{15} + \frac{26}{491}\sqrt{82}e^{26}$	$(\frac{52}{491}, \frac{52}{491}, -\frac{117}{491}, -\frac{117}{491}, \frac{104}{491}, \frac{104}{491}, -\frac{65}{491}, \frac{156}{491})$ $- \frac{13}{491}\sqrt{553}e^2 \otimes e_4 + \frac{39}{491}\sqrt{37}e^1 \otimes e_3$	{1258, 14568, 2356, 345}
831:30	$0, 0, 0, 0, 0, \frac{6}{899}\sqrt{1586}e^{12}, \frac{12}{899}\sqrt{3355}e^{13} + \frac{2}{899}\sqrt{54534}e^{24},$ $\frac{899}{899}\sqrt{35502}e^{15} + \frac{2}{899}\sqrt{116022}e^{26}$	$(-\frac{227}{899}, \frac{32}{899}, \frac{569}{899}, \frac{10}{899}, \frac{64}{899}, \frac{195}{899}, \frac{342}{899}, -\frac{163}{899})$ $+ \frac{12}{899}\sqrt{7503}e^3 \otimes e_8$	{12356, 1345, 258, 4568}
831:30	$0, 0, 0, 0, 0, \frac{9}{775}\sqrt{786}e^{12}, \frac{18}{775}\sqrt{462}e^{13} + \frac{9}{775}\sqrt{1194}e^{24},$ $\frac{81}{775}\sqrt{6}e^{15} + \frac{18}{775}\sqrt{357}e^{26}$	$(\frac{63}{775}, -\frac{18}{775}, \frac{126}{775}, \frac{9}{25}, -\frac{36}{775}, -\frac{27}{775}, \frac{189}{775}, -\frac{117}{775})$ $+ \frac{54}{775}\sqrt{59}e^3 \otimes e_8 + \frac{9}{775}\sqrt{2046}e^1 \otimes e_5$	{234567, 357}
831:30	$0, 0, 0, 0, 0, \frac{25}{847}\sqrt{102}e^{12}, \frac{10}{847}\sqrt{309}e^{13} + \frac{5}{847}\sqrt{1902}e^{24},$ $\frac{5}{847}\sqrt{1902}e^{15} + \frac{20}{847}\sqrt{141}e^{26}$	$(\frac{95}{847}, \frac{10}{847}, -\frac{150}{847}, -\frac{65}{847}, \frac{20}{847}, \frac{15}{847}, -\frac{5}{77}, \frac{115}{847})$ $+ \frac{30}{847}\sqrt{73}e^2 \otimes e_4 + \frac{5}{847}\sqrt{2118}e^1 \otimes e_5$	{256, 45}
831:30	$0, 0, 0, 0, 0, \frac{9}{853}\sqrt{170}e^{12}, \frac{3}{853}\sqrt{258}e^{13} + \frac{108}{853}\sqrt{2}e^{24},$ $\frac{108}{853}\sqrt{2}e^{15} + \frac{3}{853}\sqrt{870}e^{26}$	$(-\frac{78}{853}, \frac{24}{853}, \frac{99}{853}, -\frac{3}{853}, \frac{48}{853}, -\frac{54}{853}, \frac{21}{853}, -\frac{30}{853})$ $+ \frac{12}{853}\sqrt{159}e^5 \otimes e_7 + \frac{3}{853}\sqrt{2238}e^4 \otimes e_8$	{123678, 467}
831:30	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{7826}e^{12}, \frac{4}{281}\sqrt{645}e^{13} + \frac{2}{281}\sqrt{12126}e^{24},$ $\frac{2}{281}\sqrt{12126}e^{15} + \frac{18}{281}\sqrt{86}e^{26}$	$(-\frac{41}{281}, \frac{70}{281}, \frac{9}{281}, -\frac{102}{281}, \frac{140}{281}, \frac{29}{281}, -\frac{32}{281}, \frac{99}{281})$ $+ \frac{44}{281}\sqrt{43}e^5 \otimes e_7$	{12678, 1478, 237, 3467}
831:30	$0, 0, 0, 0, 0, \frac{66}{125}\sqrt{2}e^{12}, \frac{12}{125}\sqrt{33}e^{13} + \frac{2}{125}\sqrt{330}e^{24},$ $\frac{6}{125}\sqrt{286}e^{15} + \frac{2}{125}\sqrt{462}e^{26}$	$(\frac{71}{125}, -\frac{8}{125}, -\frac{61}{125}, \frac{18}{125}, -\frac{16}{125}, \frac{63}{125}, \frac{2}{25}, \frac{11}{25})$ $+ \frac{12}{125}\sqrt{187}e^1 \otimes e_3$	{1245, 156, 234568, 358}
831:31	$0, 0, 0, 0, 0, \frac{10}{593}\sqrt{115}e^{12}, -\frac{5}{593}\sqrt{327}e^{13} + \frac{5}{593}\sqrt{557}e^{45},$ $\frac{5}{593}\sqrt{521}e^{14} + \frac{15}{593}\sqrt{74}e^{26} + \frac{5}{593}\sqrt{291}e^{35}$	$(-\frac{55}{593}, \frac{30}{593}, \frac{60}{593}, \frac{60}{593}, -\frac{55}{593}, -\frac{25}{593}, \frac{5}{593}, \frac{5}{593})$ $+ \frac{5}{593}\sqrt{1030}e^2 \otimes e_7$	{123458, 14678, 2456, 347, 123458, 14678, 2456, 347}
831:31	$0, 0, 0, 0, 0, \frac{10}{593}\sqrt{115}e^{12}, \frac{5}{593}\sqrt{327}e^{13} + \frac{5}{593}\sqrt{557}e^{45},$ $\frac{5}{593}\sqrt{521}e^{14} + \frac{15}{593}\sqrt{74}e^{26} + \frac{5}{593}\sqrt{291}e^{35}$	$(-\frac{55}{593}, \frac{30}{593}, \frac{60}{593}, \frac{60}{593}, -\frac{55}{593}, -\frac{25}{593}, \frac{5}{593}, \frac{5}{593})$ $+ \frac{5}{593}\sqrt{1030}e^2 \otimes e_7$	{123458, 14678, 2456, 347, 123458, 14678, 2456, 347}
831:32	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{330}e^{12}, \frac{4}{47}\sqrt{66}e^{13} + \frac{4}{47}\sqrt{33}e^{45},$ $\frac{1}{47}\sqrt{330}e^{16} + \frac{4}{47}\sqrt{66}e^{24} + \frac{3}{47}\sqrt{66}e^{35}$	$(-\frac{8}{47}, \frac{26}{47}, \frac{1}{47}, -\frac{16}{47}, \frac{9}{47}, \frac{18}{47}, -\frac{7}{47}, \frac{10}{47})$ $+ \frac{3}{47}\sqrt{286}e^2 \otimes e_7$	{14678, 2456}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:33	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{14}e^{12}, \frac{5}{41}\sqrt{70}e^{13} + \frac{1}{41}\sqrt{434}e^{24},$ $\frac{14}{41}e^{14} + \frac{2}{41}\sqrt{154}e^{26} + \frac{2}{41}\sqrt{119}e^{35}$	$(-\frac{7}{41}, \frac{7}{41}, \frac{28}{41}, \frac{14}{41}, -\frac{21}{41}, 0, \frac{21}{41}, \frac{7}{41})$ $+ \frac{6}{41}\sqrt{91}e^3 \otimes e_5$	{1236, 157}
831:34	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{10}e^{12}, \frac{4}{11}e^{13} + \frac{2}{11}\sqrt{14}e^{24},$ $\frac{2}{11}\sqrt{14}e^{15} + \frac{2}{11}\sqrt{6}e^{26} + \frac{4}{11}\sqrt{2}e^{34}$	$(-\frac{3}{11}, \frac{2}{11}, \frac{3}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{1}{11}, 0, \frac{1}{11})$ $+ \frac{4}{11}\sqrt{5}e^5 \otimes e_7$	{12678, 237}
831:34	$0, 0, 0, 0, 0, \frac{13}{583}\sqrt{1434}e^{12}, \frac{104}{583}\sqrt{21}e^{13} + \frac{13}{583}\sqrt{1074}e^{24},$ $\frac{13}{583}\sqrt{1074}e^{15} + \frac{26}{583}\sqrt{213}e^{26} + \frac{78}{583}\sqrt{5}e^{34}$	$(\frac{299}{583}, -\frac{104}{583}, -\frac{156}{583}, \frac{247}{583}, -\frac{208}{583}, \frac{195}{583}, \frac{13}{53}, \frac{91}{583})$ $+ \frac{13}{583}\sqrt{2910}e^1 \otimes e_5$	{234567, 256}
831:35	$0, 0, 0, 0, 0, \frac{1}{499}\sqrt{178266}e^{12}, \frac{3}{499}\sqrt{4070}e^{13},$ $\frac{1}{499}\sqrt{91982}e^{17} + \frac{2}{499}\sqrt{41514}e^{26}$	$(\frac{23}{499}, \frac{76}{499}, \frac{129}{499}, -\frac{331}{499}, \frac{84}{499}, \frac{99}{499}, \frac{152}{499}, \frac{175}{499})$ $+ \frac{1}{499}\sqrt{337810}e^2 \otimes e_4$	{123578, 12378, 1345678, 134678, 2567, 267, 457, 47}
831:35	$0, 0, 0, 0, 0, \frac{68}{557}\sqrt{19}e^{12}, \frac{1}{557}\sqrt{25194}e^{13},$ $\frac{1}{557}\sqrt{45866}e^{17} + \frac{1}{557}\sqrt{96254}e^{26}$	$(-\frac{32}{557}, \frac{91}{557}, \frac{214}{557}, -\frac{232}{557}, -\frac{109}{557}, \frac{59}{557}, \frac{182}{557}, \frac{150}{557})$ $+ \frac{1}{557}\sqrt{116926}e^3 \otimes e_5 + \frac{76}{557}\sqrt{34}e^2 \otimes e_4$	{12578, 145678, 2367, 347}
831:35	$0, 0, 0, 0, 0, \frac{32}{1491}\sqrt{226}e^{12}, \frac{4}{1491}\sqrt{35030}e^{13},$ $\frac{4}{1491}\sqrt{30397}e^{17} + \frac{4}{1491}\sqrt{23165}e^{26}$	$(-\frac{256}{1491}, \frac{118}{1491}, \frac{164}{497}, \frac{884}{1491}, -\frac{412}{1491}, -\frac{46}{497}, \frac{236}{1491}, -\frac{20}{1491})$ $+ \frac{4}{1491}\sqrt{68591}e^3 \otimes e_5 + \frac{4}{1491}\sqrt{77857}e^4 \otimes e_8$	{124567, 1457, 2378, 3678}
831:35	$0, 0, 0, 0, 0, \frac{170}{659}\sqrt{3}e^{12}, \frac{68}{659}\sqrt{3}e^{13}, \frac{68}{659}\sqrt{2}e^{17} + \frac{255}{659}\sqrt{2}e^{26}$	$(-\frac{32}{659}, \frac{35}{659}, \frac{102}{659}, \frac{327}{659}, -\frac{254}{659}, \frac{3}{659}, \frac{70}{659}, \frac{38}{659})$ $+ \frac{17}{659}\sqrt{498}e^4 \otimes e_8 + \frac{34}{659}\sqrt{166}e^2 \otimes e_5$	{12378, 135678, 2467, 457}
831:35	$0, 0, 0, 0, 0, \frac{4}{509}\sqrt{3135}e^{12}, \frac{3}{509}\sqrt{25498}e^{13},$ $\frac{1}{509}\sqrt{51414}e^{17} + \frac{3}{509}\sqrt{2926}e^{26}$	$(-\frac{80}{509}, \frac{123}{509}, \frac{326}{509}, -\frac{301}{509}, \frac{104}{509}, \frac{43}{509}, \frac{246}{509}, \frac{166}{509})$ $+ \frac{9}{509}\sqrt{6270}e^3 \otimes e_4$	{124567, 12467, 1457, 147, 23578, 2378, 35678, 3678}
831:35	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{114}e^{12}, \frac{1}{21}\sqrt{30}e^{13}, \frac{1}{21}\sqrt{6}e^{17} + \frac{2}{7}\sqrt{2}e^{26}$	$(\frac{1}{7}, \frac{2}{21}, \frac{1}{21}, -\frac{2}{7}, -\frac{1}{3}, \frac{5}{21}, \frac{4}{21}, \frac{1}{3})$ $+ \frac{1}{21}\sqrt{174}e^2 \otimes e_5 + \frac{2}{21}\sqrt{39}e^1 \otimes e_4$	{1238, 13568, 246, 45}
831:35	$0, 0, 0, 0, 0, \frac{36}{1523}\sqrt{61}e^{12}, \frac{36}{1523}\sqrt{285}e^{13},$ $\frac{288}{1523}\sqrt{7}e^{17} + \frac{36}{1523}\sqrt{118}e^{26}$	$(\frac{122}{1523}, \frac{16}{1523}, -\frac{90}{1523}, \frac{802}{1523}, -\frac{526}{1523}, \frac{138}{1523}, \frac{32}{1523}, \frac{154}{1523})$ $+ \frac{36}{1523}\sqrt{607}e^4 \otimes e_8 + \frac{36}{1523}\sqrt{721}e^1 \otimes e_5$	{1238, 1368, 2456, 45}
831:35	$0, 0, 0, 0, 0, \frac{2}{521}\sqrt{7319}e^{12}, \frac{2}{521}\sqrt{12386}e^{13},$ $\frac{2}{521}\sqrt{39410}e^{17} + \frac{1}{521}\sqrt{143002}e^{26}$	$(-\frac{52}{521}, \frac{5}{521}, \frac{62}{521}, 1, \frac{106}{521}, -\frac{47}{521}, \frac{10}{521}, -\frac{42}{521})$ $+ \frac{1}{521}\sqrt{467290}e^4 \otimes e_8$	{124567, 12467, 1457, 147, 23578, 2378, 35678, 3678}
831:35	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{78}e^{12}, \frac{3}{25}\sqrt{13}e^{13}, \frac{1}{25}\sqrt{78}e^{17} + \frac{3}{25}\sqrt{13}e^{26}$	$(\frac{2}{25}, \frac{3}{25}, \frac{4}{25}, 1, -\frac{14}{25}, \frac{1}{5}, \frac{6}{25}, \frac{8}{25})$ $+ \frac{39}{25}e^4 \otimes e_5$	{12348, 12358, 13468, 13568, 246, 256, 4, 5}
831:35	$0, 0, 0, 0, 0, \frac{308}{1513}\sqrt{3}e^{12}, \frac{140}{1513}\sqrt{3}e^{13}, \frac{28}{1513}\sqrt{91}e^{17} + \frac{84}{1513}\sqrt{37}e^{26}$	$(\frac{182}{1513}, -\frac{14}{1513}, -\frac{210}{1513}, -\frac{406}{1513}, \frac{546}{1513}, \frac{168}{1513}, -\frac{28}{1513}, \frac{154}{1513})$ $+ \frac{112}{1513}\sqrt{34}e^2 \otimes e_4 + \frac{56}{1513}\sqrt{102}e^5 \otimes e_8 - \frac{84}{1513}\sqrt{47}e^1 \otimes e_3$	{128, 1468, 2356, 345}
831:35	$0, 0, 0, 0, 0, \frac{308}{1513}\sqrt{3}e^{12}, \frac{140}{1513}\sqrt{3}e^{13}, \frac{28}{1513}\sqrt{91}e^{17} + \frac{84}{1513}\sqrt{37}e^{26}$	$(\frac{182}{1513}, -\frac{14}{1513}, -\frac{210}{1513}, -\frac{406}{1513}, \frac{546}{1513}, \frac{168}{1513}, -\frac{28}{1513}, \frac{154}{1513})$ $+ \frac{112}{1513}\sqrt{34}e^2 \otimes e_4 + \frac{56}{1513}\sqrt{102}e^5 \otimes e_8 + \frac{84}{1513}\sqrt{47}e^1 \otimes e_3$	{128, 1468, 2356, 345}
831:35	$0, 0, 0, 0, 0, \frac{1}{529}\sqrt{68182}e^{12}, \frac{4}{529}\sqrt{8873}e^{13},$ $\frac{2}{529}\sqrt{36893}e^{17} + \frac{6}{529}\sqrt{467}e^{26}$	$(\frac{146}{529}, \frac{49}{529}, -\frac{48}{529}, -\frac{321}{529}, \frac{104}{529}, \frac{195}{529}, \frac{98}{529}, \frac{244}{529})$ $+ \frac{5}{529}\sqrt{15878}e^1 \otimes e_4$	{1257, 127, 1567, 167, 2345678, 234678, 34578, 3478}
831:35	$0, 0, 0, 0, 0, \frac{28}{1627}\sqrt{89}e^{12}, \frac{4}{1627}\sqrt{46814}e^{13},$ $\frac{4}{1627}\sqrt{29815}e^{17} + \frac{4}{1627}\sqrt{4094}e^{26}$	$(\frac{98}{1627}, \frac{194}{1627}, \frac{290}{1627}, -\frac{614}{1627}, -\frac{422}{1627}, \frac{292}{1627}, \frac{388}{1627}, \frac{486}{1627})$ $+ \frac{4}{1627}\sqrt{55091}e^3 \otimes e_5 + \frac{4}{1627}\sqrt{72179}e^1 \otimes e_4$	{1257, 1567, 234678, 3478}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:36	$0, 0, 0, 0, 0, -\frac{1}{38}\sqrt{779}e^{12}, \frac{1}{38}\sqrt{779}e^{13}, \frac{1}{19}\sqrt{41}e^{26} + \frac{1}{19}\sqrt{41}e^{37}$	$(\frac{1}{2}, -\frac{7}{76}, -\frac{7}{76}, -\frac{11}{19}, \frac{4}{19}, \frac{31}{76}, \frac{31}{76}, \frac{6}{19})$ $+ \frac{1}{19}\sqrt{615}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45, 12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45}
831:36	$0, 0, 0, 0, 0, \frac{1}{38}\sqrt{779}e^{12}, \frac{1}{38}\sqrt{779}e^{13}, \frac{1}{19}\sqrt{41}e^{26} + \frac{1}{19}\sqrt{41}e^{37}$	$(\frac{1}{2}, -\frac{7}{76}, -\frac{7}{76}, -\frac{11}{19}, \frac{4}{19}, \frac{31}{76}, \frac{31}{76}, \frac{6}{19})$ $+ \frac{1}{19}\sqrt{615}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45, 12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45}
831:36	$0, 0, 0, 0, 0, -\frac{2}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{26} + \frac{2}{7}\sqrt{2}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7})$ $+ \frac{2}{7}\sqrt{6}e^2 \otimes e_4 + \frac{2}{7}\sqrt{6}e^3 \otimes e_5$	{1238, 12578, 145678, 2367, 256, 45, 1238, 12578, 145678, 2367, 256, 45}
831:36	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{26} + \frac{2}{7}\sqrt{2}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7})$ $+ \frac{2}{7}\sqrt{6}e^2 \otimes e_4 + \frac{2}{7}\sqrt{6}e^3 \otimes e_5$	{1238, 12578, 145678, 2367, 256, 45, 1238, 12578, 145678, 2367, 256, 45}
831:36	$0, 0, 0, 0, 0, -\frac{1}{19}\sqrt{41}e^{12}, \frac{1}{19}\sqrt{41}e^{13}, \frac{1}{38}\sqrt{779}e^{26} + \frac{1}{38}\sqrt{779}e^{37}$	$(\frac{2}{19}, -\frac{7}{76}, -\frac{7}{76}, 1, \frac{4}{19}, \frac{1}{76}, \frac{1}{76}, -\frac{3}{38})$ $+ \frac{1}{19}\sqrt{615}e^4 \otimes e_8$	{12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45, 12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45}
831:36	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{41}e^{12}, \frac{1}{19}\sqrt{41}e^{13}, \frac{1}{38}\sqrt{779}e^{26} + \frac{1}{38}\sqrt{779}e^{37}$	$(\frac{2}{19}, -\frac{7}{76}, -\frac{7}{76}, 1, \frac{4}{19}, \frac{1}{76}, \frac{1}{76}, -\frac{3}{38})$ $+ \frac{1}{19}\sqrt{615}e^4 \otimes e_8$	{12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45, 12358, 1238, 12578, 1278, 15678, 1678, 234567, 23467, 2456, 246, 4, 45}
831:36	$0, 0, 0, 0, 0, -\frac{2}{37}\sqrt{221}e^{12}, \frac{2}{37}\sqrt{34}e^{13}, \frac{2}{37}\sqrt{221}e^{26} + \frac{2}{37}\sqrt{34}e^{37}$	$(-\frac{4}{37}, \frac{11}{37}, \frac{11}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{7}{37}, \frac{7}{37}, \frac{18}{37})$ $+ \frac{2}{37}\sqrt{510}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 2356, 236, 2567, 267, 34, 345, 457, 47, 123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 2356, 236, 2567, 267, 34, 345, 457, 47}
831:36	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{221}e^{12}, \frac{2}{37}\sqrt{34}e^{13}, \frac{2}{37}\sqrt{221}e^{26} + \frac{2}{37}\sqrt{34}e^{37}$	$(-\frac{4}{37}, \frac{11}{37}, \frac{11}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{7}{37}, \frac{7}{37}, \frac{18}{37})$ $+ \frac{2}{37}\sqrt{510}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 2356, 236, 2567, 267, 34, 345, 457, 47, 123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 2356, 236, 2567, 267, 34, 345, 457, 47}
831:36	$0, 0, 0, 0, 0, -\frac{2}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{26} + \frac{2}{7}\sqrt{2}e^{37}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{4}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{2}{7}\sqrt{6}e^1 \otimes e_5 + \frac{2}{7}\sqrt{6}e^4 \otimes e_8$	{1238, 1278, 1678, 234567, 2456, 45, 1238, 1278, 1678, 234567, 2456, 45}
831:36	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{26} + \frac{2}{7}\sqrt{2}e^{37}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{4}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{2}{7}\sqrt{6}e^1 \otimes e_5 + \frac{2}{7}\sqrt{6}e^4 \otimes e_8$	{1238, 1278, 1678, 234567, 2456, 45, 1238, 1278, 1678, 234567, 2456, 45}
831:36	$0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{14}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{1}{9}\sqrt{14}e^{26} + \frac{1}{9}\sqrt{14}e^{37}$	$(\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, 1, -\frac{5}{9}, \frac{2}{9}, \frac{2}{9}, \frac{1}{3})$ $+ \frac{14}{9}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 14678, 15678, 23467, 23567, 246, 256, 4, 5, 12348, 12358, 12478, 12578, 14678, 15678, 23467, 23567, 246, 256, 4, 5}
831:36	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{14}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{1}{9}\sqrt{14}e^{26} + \frac{1}{9}\sqrt{14}e^{37}$	$(\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, 1, -\frac{5}{9}, \frac{2}{9}, \frac{2}{9}, \frac{1}{3})$ $+ \frac{14}{9}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 14678, 15678, 23467, 23567, 246, 256, 4, 5, 12348, 12358, 12478, 12578, 14678, 15678, 23467, 23567, 246, 256, 4, 5}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:38	$0, 0, 0, 0, 0, -\frac{17}{877}\sqrt{641}e^{12}, \frac{17}{877}\sqrt{221}e^{13},$ $\frac{17}{877}\sqrt{390}e^{14} + \frac{17}{877}\sqrt{461}e^{26} + \frac{17}{877}\sqrt{41}e^{37}$	$(\frac{221}{877}, -\frac{34}{877}, -\frac{34}{877}, -\frac{68}{877}, -\frac{323}{877}, \frac{187}{877}, \frac{187}{877}, \frac{153}{877})$ $+ \frac{204}{877}\sqrt{5}e^1 \otimes e_4 + \frac{34}{877}\sqrt{210}e^2 \otimes e_5$	{23467, 246, 3457, 45, 23467, 246, 3457, 45}
831:38	$0, 0, 0, 0, 0, \frac{17}{877}\sqrt{641}e^{12}, \frac{17}{877}\sqrt{221}e^{13},$ $\frac{17}{877}\sqrt{390}e^{14} + \frac{17}{877}\sqrt{461}e^{26} + \frac{17}{877}\sqrt{41}e^{37}$	$(\frac{221}{877}, -\frac{34}{877}, -\frac{34}{877}, -\frac{68}{877}, -\frac{323}{877}, \frac{187}{877}, \frac{187}{877}, \frac{153}{877})$ $+ \frac{204}{877}\sqrt{5}e^1 \otimes e_4 + \frac{34}{877}\sqrt{210}e^2 \otimes e_5$	{23467, 246, 3457, 45, 23467, 246, 3457, 45}
831:38	$0, 0, 0, 0, 0, -\frac{1}{17}\sqrt{42}e^{12}, \frac{1}{17}\sqrt{42}e^{13},$ $\frac{7}{17}\sqrt{6}e^{14} + \frac{1}{17}\sqrt{42}e^{26} + \frac{1}{17}\sqrt{42}e^{37}$	$(-\frac{2}{17}, \frac{5}{17}, \frac{5}{17}, \frac{10}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{8}{17})$ $+ \frac{14}{17}\sqrt{3}e^4 \otimes e_5$	{1235678, 12568, 158, 235, 257, 567, 1235678, 12568, 158, 235, 257, 567}
831:38	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{1}{17}\sqrt{42}e^{13},$ $\frac{7}{17}\sqrt{6}e^{14} + \frac{1}{17}\sqrt{42}e^{26} + \frac{1}{17}\sqrt{42}e^{37}$	$(-\frac{2}{17}, \frac{5}{17}, \frac{5}{17}, \frac{10}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{8}{17})$ $+ \frac{14}{17}\sqrt{3}e^4 \otimes e_5$	{1235678, 12568, 158, 235, 257, 567, 1235678, 12568, 158, 235, 257, 567}
831:38	$0, 0, 0, 0, 0, -\frac{1}{73}\sqrt{3599}e^{12}, \frac{1}{73}\sqrt{61}e^{13},$ $\frac{1}{73}\sqrt{1830}e^{14} + \frac{1}{73}\sqrt{3599}e^{26} + \frac{1}{73}\sqrt{61}e^{37}$	$(-\frac{1}{73}, \frac{14}{73}, \frac{14}{73}, \frac{28}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{13}{73}, \frac{27}{73})$ $+ \frac{2}{73}\sqrt{1830}e^2 \otimes e_5$	{123478, 1248, 1345678, 14568, 2346, 2467, 345, 457, 123478, 1248, 1345678, 14568, 2346, 2467, 345, 457}
831:38	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{3599}e^{12}, \frac{1}{73}\sqrt{61}e^{13},$ $\frac{1}{73}\sqrt{1830}e^{14} + \frac{1}{73}\sqrt{3599}e^{26} + \frac{1}{73}\sqrt{61}e^{37}$	$(-\frac{1}{73}, \frac{14}{73}, \frac{14}{73}, \frac{28}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{13}{73}, \frac{27}{73})$ $+ \frac{2}{73}\sqrt{1830}e^2 \otimes e_5$	{123478, 1248, 1345678, 14568, 2346, 2467, 345, 457, 123478, 1248, 1345678, 14568, 2346, 2467, 345, 457}
831:38	$0, 0, 0, 0, 0, -\frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13},$ $\frac{1}{5}\sqrt{10}e^{14} + \frac{1}{5}\sqrt{5}e^{26} + \frac{1}{5}\sqrt{5}e^{37}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{2}{5}, \frac{2}{5}, \frac{1}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_4$	{234567, 23467, 2456, 246, 4, 45, 234567, 23467, 2456, 246, 4, 45}
831:38	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13},$ $\frac{1}{5}\sqrt{10}e^{14} + \frac{1}{5}\sqrt{5}e^{26} + \frac{1}{5}\sqrt{5}e^{37}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{2}{5}, \frac{2}{5}, \frac{1}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_4$	{234567, 23467, 2456, 246, 4, 45, 234567, 23467, 2456, 246, 4, 45}
831:39	$0, 0, 0, 0, 0, \frac{3}{35}\sqrt{42}e^{12}, \frac{2}{35}\sqrt{105}e^{13},$ $\frac{4}{35}\sqrt{21}e^{16} + \frac{6}{35}\sqrt{35}e^{24} + \frac{3}{35}\sqrt{14}e^{37}$	$(\frac{2}{7}, -\frac{4}{35}, \frac{3}{35}, \frac{4}{7}, -\frac{22}{35}, \frac{6}{35}, \frac{13}{35}, \frac{16}{35})$ $+ \frac{3}{35}\sqrt{266}e^4 \otimes e_5$	{135, 157, 23578, 258}
831:39	$0, 0, 0, 0, 0, \frac{8}{53}\sqrt{10}e^{12}, \frac{16}{53}e^{13}, \frac{24}{53}e^{16} + \frac{8}{53}\sqrt{2}e^{24} + \frac{8}{53}\sqrt{7}e^{37}$	$(-\frac{8}{53}, \frac{16}{53}, \frac{4}{53}, -\frac{16}{53}, \frac{32}{53}, \frac{8}{53}, -\frac{4}{53}, 0)$ $+ \frac{40}{53}e^5 \otimes e_8 + \frac{8}{53}\sqrt{21}e^2 \otimes e_4$	{2368, 2678}
831:39	$0, 0, 0, 0, 0, \frac{12}{1001}\sqrt{6965}e^{12}, \frac{2}{1001}\sqrt{70446}e^{13},$ $\frac{16}{1001}\sqrt{1194}e^{16} + \frac{6}{1001}\sqrt{9353}e^{24} + \frac{6}{1001}\sqrt{4577}e^{37}$	$(-\frac{236}{1001}, \frac{722}{1001}, \frac{243}{1001}, -\frac{472}{1001}, \frac{194}{1001}, \frac{486}{1001}, \frac{1}{143}, \frac{250}{1001})$ $+ \frac{6}{1001}\sqrt{53531}e^2 \otimes e_4$	{134567, 13467, 1456, 146}
831:39	$0, 0, 0, 0, 0, \frac{7}{425}\sqrt{390}e^{12}, \frac{7}{425}\sqrt{970}e^{13},$ $\frac{7}{425}\sqrt{470}e^{16} + \frac{42}{425}\sqrt{5}e^{24} + \frac{14}{425}\sqrt{290}e^{37}$	$(-\frac{7}{85}, \frac{7}{17}, \frac{14}{85}, -\frac{14}{85}, -\frac{7}{17}, \frac{28}{85}, \frac{7}{85}, \frac{21}{85})$ $+ \frac{14}{425}\sqrt{355}e^2 \otimes e_4 + \frac{7}{425}\sqrt{2290}e^3 \otimes e_5$	{2367, 256}
831:39	$0, 0, 0, 0, 0, \frac{2}{251}\sqrt{2703}e^{12}, \frac{30}{251}\sqrt{51}e^{13},$ $\frac{12}{251}\sqrt{170}e^{16} + \frac{2}{251}\sqrt{969}e^{24} + \frac{6}{251}\sqrt{1139}e^{37}$	$(\frac{33}{502}, \frac{119}{502}, \frac{38}{251}, \frac{33}{251}, -\frac{166}{251}, \frac{76}{251}, \frac{109}{502}, \frac{185}{502})$ $+ \frac{6}{251}\sqrt{2363}e^3 \otimes e_5$	{12368, 125678, 367, 56}
831:39	$0, 0, 0, 0, 0, \frac{3}{511}\sqrt{16082}e^{12}, \frac{4}{511}\sqrt{561}e^{13},$ $\frac{1}{511}\sqrt{5610}e^{16} + \frac{66}{511}\sqrt{34}e^{24} + \frac{3}{511}\sqrt{1122}e^{37}$	$(-\frac{16}{511}, \frac{250}{511}, \frac{117}{511}, -\frac{32}{511}, -\frac{311}{511}, \frac{234}{511}, \frac{101}{511}, \frac{218}{511})$ $+ \frac{3}{511}\sqrt{51238}e^2 \otimes e_5$	{1345678, 14568, 2346, 2467}
831:39	$0, 0, 0, 0, 0, \frac{68}{1589}\sqrt{161}e^{12}, \frac{34}{1589}\sqrt{34}e^{13},$ $\frac{68}{1589}\sqrt{109}e^{16} + \frac{34}{1589}\sqrt{309}e^{24} + \frac{34}{1589}\sqrt{13}e^{37}$	$(-\frac{68}{1589}, \frac{442}{1589}, \frac{187}{1589}, -\frac{136}{1589}, -\frac{646}{1589}, \frac{374}{1589}, \frac{17}{227}, \frac{306}{1589})$ $+ \frac{34}{1589}\sqrt{611}e^2 \otimes e_4 + \frac{68}{1589}\sqrt{203}e^1 \otimes e_5$	{13467, 146}
831:41	$0, 0, 0, 0, 0, \frac{2}{305}\sqrt{3318}e^{12}, \frac{6}{305}\sqrt{474}e^{13},$ $\frac{4}{305}\sqrt{474}e^{17} + \frac{6}{305}\sqrt{395}e^{26} + \frac{6}{305}\sqrt{395}e^{45}$	$(\frac{28}{305}, \frac{39}{305}, \frac{10}{61}, \frac{58}{61}, -\frac{184}{305}, \frac{67}{305}, \frac{78}{305}, \frac{106}{305})$ $+ \frac{474}{305}e^4 \otimes e_5$	{12348, 12358, 13468, 13568}
831:42	$0, 0, 0, 0, 0, -\frac{2}{89}\sqrt{345}e^{12}, \frac{2}{89}\sqrt{345}e^{13},$ $\frac{4}{89}\sqrt{69}e^{26} + \frac{4}{89}\sqrt{69}e^{37} + \frac{4}{89}\sqrt{69}e^{45}$	$(\frac{10}{89}, \frac{11}{89}, \frac{11}{89}, \frac{85}{89}, -\frac{53}{89}, \frac{21}{89}, \frac{21}{89}, \frac{32}{89})$ $+ \frac{138}{89}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 14678, 15678, 12348, 12358, 12478, 12578, 14678, 15678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
831:42	$0, 0, 0, 0, 0, \frac{2}{89}\sqrt{345}e^{12}, \frac{2}{89}\sqrt{345}e^{13},$ $\frac{4}{89}\sqrt{69}e^{26} + \frac{4}{89}\sqrt{69}e^{37} + \frac{4}{89}\sqrt{69}e^{45}$	$(\frac{10}{89}, \frac{11}{89}, \frac{11}{89}, \frac{85}{89}, -\frac{53}{89}, \frac{21}{89}, \frac{21}{89}, \frac{32}{89})$ $+ \frac{138}{89}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 14678, 15678, 12348, 12358, 12478, 12578, 14678, 15678}
831:44	$0, 0, 0, 0, 0, \frac{1}{165}\sqrt{22330}e^{12}, \frac{2}{165}\sqrt{1218}e^{34}, \frac{1}{55}\sqrt{406}e^{16} + \frac{1}{55}\sqrt{406}e^{37}$	$(-\frac{28}{165}, \frac{2}{11}, \frac{8}{55}, -\frac{31}{55}, \frac{82}{165}, \frac{13}{55}, \frac{18}{55})$ $+ \frac{1}{165}\sqrt{52374}e^2 \otimes e_5$	{12348, 12478, 13567, 156, 23468, 24678, 357, 5}
831:44	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{902}e^{12}, \frac{1}{61}\sqrt{943}e^{34}, \frac{2}{61}\sqrt{246}e^{16} + \frac{1}{122}\sqrt{410}e^{37}$	$(\frac{20}{61}, -\frac{21}{61}, -\frac{2}{61}, \frac{23}{61}, -\frac{18}{61}, -\frac{1}{61}, \frac{21}{61}, \frac{19}{61})$ $+ \frac{1}{122}\sqrt{8610}e^4 \otimes e_5 + \frac{1}{61}\sqrt{2173}e^1 \otimes e_2$	{1346, 1467, 235678, 2568}
831:44	$0, 0, 0, 0, 0, \frac{1}{669}\sqrt{272506}e^{12}, \frac{1}{223}\sqrt{6110}e^{34},$ $\frac{26}{223}\sqrt{47}e^{16} + \frac{1}{669}\sqrt{40326}e^{37}$	$(\frac{212}{669}, -\frac{88}{669}, \frac{41}{223}, \frac{30}{223}, -\frac{133}{223}, \frac{124}{669}, \frac{71}{223}, \frac{112}{223})$ $+ \frac{2}{669}\sqrt{163137}e^1 \otimes e_5$	{12378, 128, 1346, 1467, 235678, 2568, 345, 457}
831:44	$0, 0, 0, 0, 0, \frac{1}{179}\sqrt{1410}e^{12}, \frac{1}{179}\sqrt{1410}e^{34}, \frac{6}{179}\sqrt{282}e^{16} + \frac{2}{179}\sqrt{799}e^{37}$	$(\frac{35}{179}, -\frac{59}{179}, -\frac{2}{179}, \frac{15}{179}, \frac{105}{179}, -\frac{24}{179}, \frac{13}{179}, \frac{11}{179})$ $+ \frac{1}{179}\sqrt{15510}e^5 \otimes e_8 + \frac{2}{179}\sqrt{3478}e^1 \otimes e_2$	{13567, 156, 23468, 24678}
831:44	$0, 0, 0, 0, 0, \frac{6}{197}\sqrt{71}e^{12}, \frac{6}{197}\sqrt{71}e^{34}, \frac{4}{197}\sqrt{497}e^{16} + \frac{4}{197}\sqrt{497}e^{37}$	$(\frac{75}{197}, -\frac{67}{197}, \frac{75}{197}, -\frac{67}{197}, \frac{27}{197}, \frac{8}{197}, \frac{8}{197}, \frac{83}{197})$ $+ \frac{2}{197}\sqrt{6035}e^1 \otimes e_2 + \frac{2}{197}\sqrt{6035}e^3 \otimes e_4$	{13567, 1367, 245678, 24678}
831:44	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{30}e^{12}, \frac{1}{14}\sqrt{30}e^{34}, \frac{1}{14}\sqrt{105}e^{16} + \frac{1}{14}\sqrt{105}e^{37}$	$(-\frac{3}{28}, \frac{1}{7}, -\frac{3}{28}, \frac{1}{7}, 1, \frac{1}{28}, \frac{1}{28}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{330}e^5 \otimes e_8$	{12348, 12478, 13567, 156, 24678, 5}
831:44	$0, 0, 0, 0, 0, \frac{21}{137}e^{12}, \frac{21}{137}e^{34}, \frac{35}{137}\sqrt{2}e^{16} + \frac{35}{137}\sqrt{2}e^{37}$	$(\frac{21}{137}, -\frac{28}{137}, \frac{21}{137}, -\frac{28}{137}, \frac{63}{137}, -\frac{7}{137}, -\frac{7}{137}, \frac{14}{137})$ $+ \frac{21}{137}\sqrt{11}e^5 \otimes e_8 + \frac{7}{137}\sqrt{74}e^1 \otimes e_2 + \frac{7}{137}\sqrt{74}e^3 \otimes e_4$	{13567, 24678}
831:44	$0, 0, 0, 0, 0, \frac{1}{811}\sqrt{38298}e^{12}, \frac{2}{811}\sqrt{42717}e^{34},$ $\frac{1}{811}\sqrt{85434}e^{16} + \frac{1}{811}\sqrt{142390}e^{37}$	$(\frac{280}{811}, -\frac{211}{811}, \frac{203}{811}, -\frac{57}{811}, \frac{288}{811}, \frac{69}{811}, \frac{146}{811}, \frac{349}{811})$ $+ \frac{17}{811}\sqrt{982}e^1 \otimes e_2 + \frac{9}{811}\sqrt{4910}e^3 \otimes e_5$	{1367, 156, 23468, 245678}
831:44	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{318}e^{12}, \frac{1}{43}\sqrt{318}e^{34}, \frac{1}{43}\sqrt{1590}e^{16} + \frac{2}{43}\sqrt{53}e^{37}$	$(\frac{25}{43}, -\frac{28}{43}, \frac{8}{43}, \frac{6}{43}, \frac{9}{43}, -\frac{3}{43}, \frac{14}{43}, \frac{22}{43})$ $+ \frac{2}{43}\sqrt{901}e^1 \otimes e_2$	{13456, 1346, 14567, 1467, 235678, 23678, 2568, 268}
831:46	$0, 0, 0, 0, 0, \frac{6}{607}\sqrt{6751}e^{12}, \frac{2}{607}\sqrt{22137}e^{34},$ $\frac{1}{607}\sqrt{157314}e^{13} + \frac{3}{607}\sqrt{26690}e^{26} + \frac{3}{607}\sqrt{942}e^{47}$	$(\frac{24}{607}, \frac{94}{607}, \frac{188}{607}, \frac{12}{607}, -\frac{377}{607}, \frac{118}{607}, \frac{200}{607}, \frac{212}{607})$ $+ \frac{6}{607}\sqrt{12874}e^2 \otimes e_5$	{12348, 12378, 134568, 135678}
831:46	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{11130}e^{12}, \frac{2}{145}\sqrt{318}e^{34},$ $\frac{4}{145}\sqrt{795}e^{13} + \frac{3}{145}\sqrt{106}e^{26} + \frac{3}{145}\sqrt{106}e^{47}$	$(\frac{14}{29}, -\frac{4}{145}, -\frac{8}{145}, \frac{7}{29}, -\frac{89}{145}, \frac{66}{145}, \frac{27}{145}, \frac{62}{145})$ $+ \frac{3}{145}\sqrt{4134}e^1 \otimes e_5$	{2345678, 23568, 34578, 358}
831:47	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{27690}e^{12}, \frac{10}{353}\sqrt{213}e^{34},$ $\frac{2}{353}\sqrt{7881}e^{15} + \frac{4}{353}\sqrt{1491}e^{26} + \frac{4}{353}\sqrt{1491}e^{37}$	$(\frac{260}{353}, -\frac{83}{353}, \frac{22}{353}, \frac{50}{353}, -\frac{166}{353}, \frac{177}{353}, \frac{72}{353}, \frac{94}{353})$ $+ \frac{2}{353}\sqrt{59214}e^1 \otimes e_5$	{23567, 256, 357, 5}
831:47	$0, 0, 0, 0, 0, \frac{13}{87}\sqrt{13}e^{12}, \frac{13}{174}\sqrt{10}e^{34},$ $\frac{26}{261}\sqrt{14}e^{15} + \frac{13}{522}\sqrt{10}e^{26} + \frac{26}{261}\sqrt{29}e^{37}$	$(\frac{13}{29}, -\frac{26}{261}, \frac{26}{87}, -\frac{91}{261}, -\frac{52}{261}, \frac{91}{261}, -\frac{13}{261}, \frac{65}{261})$ $+ \frac{13}{261}\sqrt{227}e^3 \otimes e_4 + \frac{13}{522}\sqrt{910}e^1 \otimes e_5$	{23567, 357}
831:47	$0, 0, 0, 0, 0, \frac{26}{277}\sqrt{26}e^{12}, \frac{26}{277}\sqrt{19}e^{34},$ $\frac{26}{277}\sqrt{21}e^{15} + \frac{52}{277}\sqrt{2}e^{26} + \frac{26}{277}\sqrt{102}e^{37}$	$(\frac{52}{277}, \frac{39}{277}, \frac{156}{277}, -\frac{182}{277}, \frac{78}{277}, \frac{91}{277}, -\frac{26}{277}, \frac{130}{277})$ $+ \frac{52}{277}\sqrt{55}e^3 \otimes e_4$	{1237, 1367, 24678, 478}
83:1	$0, 0, 0, 0, 0, \frac{6}{103}\sqrt{26}e^{12}, \frac{6}{103}\sqrt{26}e^{13}, \frac{6}{103}\sqrt{26}e^{23}$	$(\frac{14}{103}, \frac{14}{103}, -\frac{26}{103}, -\frac{3}{103}, \frac{23}{103}, \frac{28}{103}, -\frac{12}{103}, -\frac{12}{103})$ $+ \frac{26}{103}e^5 \otimes e_4 + \frac{4}{103}\sqrt{130}e^1 \otimes e_8 - \frac{4}{103}\sqrt{130}e^2 \otimes e_7$	{1234, 1235, 1467, 1567, 3478, 3578}
83:1	$0, 0, 0, 0, 0, \frac{6}{103}\sqrt{26}e^{12}, \frac{6}{103}\sqrt{26}e^{13}, \frac{6}{103}\sqrt{26}e^{23}$	$(\frac{14}{103}, \frac{14}{103}, -\frac{26}{103}, -\frac{3}{103}, \frac{23}{103}, \frac{28}{103}, -\frac{12}{103}, -\frac{12}{103})$ $+ \frac{26}{103}e^5 \otimes e_4 + \frac{4}{103}\sqrt{130}e^1 \otimes e_8 + \frac{4}{103}\sqrt{130}e^2 \otimes e_7$	{1234, 1235, 1467, 1567, 3478, 3578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:1	$0, 0, 0, 0, 0, \frac{15}{173}\sqrt{30}e^{12}, \frac{15}{173}\sqrt{30}e^{13}, \frac{5}{173}\sqrt{110}e^{23}$	$(-\frac{33}{173}, \frac{5}{173}, \frac{5}{173}, \frac{97}{173}, \frac{97}{173}, -\frac{28}{173}, -\frac{28}{173}, \frac{10}{173})$ $+\frac{10}{173}\sqrt{190}e^4 \otimes e_6 + \frac{10}{173}\sqrt{190}e^5 \otimes e_7$	{123458, 1247, 1678, 23678, 256, 458}
83:1	$0, 0, 0, 0, 0, \frac{3}{16}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13}, \frac{1}{8}\sqrt{17}e^{23}$	$(\frac{7}{16}, \frac{1}{32}, \frac{1}{32}, -\frac{5}{8}, \frac{3}{16}, \frac{15}{32}, \frac{15}{32}, \frac{1}{16})$ $+\frac{1}{16}\sqrt{442}e^1 \otimes e_4$	{12358, 1238, 1257, 127, 15678, 1678, 2345678, 234678, 2456, 246, 458, 48}
83:1	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1054}e^{12}, \frac{2}{59}\sqrt{62}e^{13}, \frac{2}{59}\sqrt{62}e^{23}$	$(\frac{12}{59}, \frac{12}{59}, -\frac{1}{59}, -\frac{19}{59}, -\frac{19}{59}, \frac{24}{59}, \frac{11}{59}, \frac{11}{59})$ $+\frac{2}{59}\sqrt{403}e^1 \otimes e_4 + \frac{2}{59}\sqrt{403}e^2 \otimes e_5$	{123, 1278, 13568, 1567, 34578, 45}
83:1	$0, 0, 0, 0, 0, \frac{1}{80}\sqrt{1209}e^{12}, \frac{1}{80}\sqrt{1209}e^{13}, \frac{1}{40}\sqrt{31}e^{23}$	$(\frac{1}{16}, \frac{47}{160}, -\frac{5}{32}, -\frac{13}{40}, \frac{9}{80}, \frac{57}{160}, -\frac{3}{32}, \frac{11}{80})$ $+\frac{1}{80}\sqrt{2170}e^1 \otimes e_4 + \frac{3}{40}\sqrt{62}e^2 \otimes e_7$	{123, 1235, 1567, 167, 24568, 2468, 34578, 3478}
83:1	$0, 0, 0, 0, 0, \frac{15}{791}\sqrt{358}e^{12}, \frac{2}{791}\sqrt{11098}e^{13}, \frac{4}{791}\sqrt{179}e^{23}$	$(-\frac{20}{791}, \frac{108}{791}, -\frac{51}{791}, -\frac{199}{791}, \frac{267}{791}, \frac{88}{791}, -\frac{71}{791}, \frac{57}{791})$ $+\frac{2}{791}\sqrt{18079}e^5 \otimes e_6 + \frac{2}{791}\sqrt{23270}e^2 \otimes e_7 + \frac{4}{791}\sqrt{5907}e^1 \otimes e_4$	{12358, 1678, 246, 3457}
83:1	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12}, \frac{2}{15}\sqrt{10}e^{13}, \frac{2}{15}\sqrt{10}e^{23}$	$(\frac{2}{5}, -\frac{2}{15}, -\frac{2}{15}, \frac{7}{15}, -\frac{1}{5}, \frac{4}{15}, \frac{4}{15}, -\frac{4}{15})$ $+\frac{2}{3}e^4 \otimes e_5 + \frac{4}{15}\sqrt{10}e^1 \otimes e_8$	{1234, 1235, 1467, 1567, 2468, 2568}
83:1	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{74}e^{12}, \frac{2}{47}\sqrt{74}e^{13}, \frac{2}{47}\sqrt{74}e^{23}$	$(\frac{6}{47}, \frac{6}{47}, \frac{6}{47}, 1, -\frac{27}{47}, \frac{12}{47}, \frac{12}{47}, \frac{12}{47})$ $+\frac{74}{47}e^4 \otimes e_5$	{1234, 1235, 12478, 12578, 1467, 1567, 4, 5}
83:1	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{38}e^{12}, \frac{2}{103}\sqrt{133}e^{13}, \frac{2}{103}\sqrt{133}e^{23}$	$(\frac{6}{103}, \frac{6}{103}, -\frac{19}{103}, \frac{9}{103}, \frac{31}{103}, \frac{12}{103}, -\frac{13}{103}, -\frac{13}{103})$ $+\frac{2}{103}\sqrt{209}e^5 \otimes e_6 + \frac{6}{103}\sqrt{38}e^1 \otimes e_8 + \frac{6}{103}\sqrt{38}e^2 \otimes e_7$	{12345, 1235, 1467, 167, 34578, 3578}
83:1	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{38}e^{12}, \frac{2}{103}\sqrt{133}e^{13}, \frac{2}{103}\sqrt{133}e^{23}$	$(\frac{6}{103}, \frac{6}{103}, -\frac{19}{103}, \frac{9}{103}, \frac{31}{103}, \frac{12}{103}, -\frac{13}{103}, -\frac{13}{103})$ $+\frac{2}{103}\sqrt{209}e^5 \otimes e_6 + \frac{6}{103}\sqrt{38}e^1 \otimes e_8 - \frac{6}{103}\sqrt{38}e^2 \otimes e_7$	{12345, 1235, 1467, 167, 34578, 3578}
83:1	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{5}\sqrt{10}e^{13}, \frac{1}{5}\sqrt{10}e^{23}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{2}{5}, \frac{2}{5}, -\frac{2}{5})$ $+\frac{2}{5}\sqrt{10}e^1 \otimes e_8$	{123, 1234, 12345, 14567, 1467, 167, 24568, 2468, 268}
83:1	$0, 0, 0, 0, 0, \frac{12}{53}\sqrt{2}e^{12}, \frac{12}{53}\sqrt{2}e^{13}, \frac{8}{53}\sqrt{3}e^{23}$	$(\frac{4}{53}, \frac{10}{53}, -\frac{10}{53}, -\frac{12}{53}, \frac{16}{53}, \frac{14}{53}, -\frac{6}{53}, 0)$ $+\frac{4}{53}\sqrt{22}e^5 \otimes e_8 + \frac{4}{53}\sqrt{34}e^1 \otimes e_4 + \frac{8}{53}\sqrt{10}e^2 \otimes e_7$	{1235, 1567, 2468, 3478}
83:1	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{182}e^{12}, \frac{2}{25}\sqrt{13}e^{13}, \frac{2}{25}\sqrt{13}e^{23}$	$(\frac{6}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{13}{25}, \frac{3}{25}, 0, \frac{1}{5}, -\frac{7}{25})$ $+\frac{2}{25}\sqrt{65}e^4 \otimes e_6 + \frac{2}{25}\sqrt{78}e^1 \otimes e_8$	{1234, 12345, 1567, 167, 2568, 268, 34578, 3478}
83:1	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{2}{619}\sqrt{11818}e^{13}, \frac{12}{619}\sqrt{311}e^{23}$	$(\frac{80}{619}, -\frac{68}{619}, \frac{61}{619}, \frac{323}{619}, -\frac{231}{619}, \frac{12}{619}, \frac{141}{619}, -\frac{7}{619})$ $+\frac{2}{619}\sqrt{40119}e^4 \otimes e_6 + \frac{4}{619}\sqrt{11507}e^1 \otimes e_5$	{12348, 1247, 136, 1678, 235678, 256, 3457, 458}
83:1	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12}, \frac{2}{47}\sqrt{59}e^{13}, \frac{2}{47}\sqrt{59}e^{23}$	$(-\frac{6}{47}, -\frac{6}{47}, \frac{13}{47}, 1, \frac{9}{47}, -\frac{12}{47}, \frac{7}{47}, \frac{7}{47})$ $+\frac{2}{47}\sqrt{1121}e^4 \otimes e_6$	{1234578, 123478, 124, 1245, 13567, 1367, 1568, 168, 34, 345, 4578, 478}
83:1	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{26}e^{12}, \frac{1}{15}\sqrt{26}e^{13}, \frac{1}{15}\sqrt{26}e^{23}$	$(\frac{7}{45}, \frac{7}{45}, -\frac{13}{45}, \frac{1}{9}, \frac{1}{9}, \frac{14}{45}, -\frac{2}{15}, -\frac{2}{15})$ $+\frac{2}{45}\sqrt{130}e^1 \otimes e_8 - \frac{2}{45}\sqrt{130}e^2 \otimes e_7$	{123, 1234, 12345, 14567, 1467, 167, 34578, 3478, 378}
83:1	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{26}e^{12}, \frac{1}{15}\sqrt{26}e^{13}, \frac{1}{15}\sqrt{26}e^{23}$	$(\frac{7}{45}, \frac{7}{45}, -\frac{13}{45}, \frac{1}{9}, \frac{1}{9}, \frac{14}{45}, -\frac{2}{15}, -\frac{2}{15})$ $+\frac{2}{45}\sqrt{130}e^1 \otimes e_8 + \frac{2}{45}\sqrt{130}e^2 \otimes e_7$	{123, 1234, 12345, 14567, 1467, 167, 34578, 3478, 378}
83:1	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{8}{23}e^{23}$	$(\frac{8}{23}, -\frac{2}{23}, -\frac{2}{23}, \frac{12}{23}, -\frac{8}{23}, \frac{6}{23}, \frac{6}{23}, -\frac{4}{23})$ $+\frac{12}{23}\sqrt{2}e^4 \otimes e_8 + \frac{4}{23}\sqrt{22}e^1 \otimes e_5$	{1234, 1278, 1467, 234567, 2568, 45}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:1	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{78}e^{12}, \frac{1}{25}\sqrt{78}e^{13}, \frac{3}{25}\sqrt{2}e^{23}$	$(\frac{3}{25}, -\frac{3}{25}, -\frac{3}{25}, \frac{9}{25}, \frac{9}{25}, 0, 0, -\frac{6}{25})$ $+ \frac{2}{25}\sqrt{30}e^4 \otimes e_6 + \frac{2}{25}\sqrt{30}e^5 \otimes e_7 + \frac{2}{25}\sqrt{42}e^1 \otimes e_8$	{12345, 167, 2568}
83:2	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1054}e^{12}, \frac{2}{59}\sqrt{62}e^{13}, \frac{2}{59}\sqrt{62}e^{14}$	$(\frac{8}{59}, \frac{16}{59}, -\frac{23}{59}, \frac{3}{59}, \frac{7}{59}, \frac{24}{59}, -\frac{15}{59}, \frac{11}{59})$ $+ \frac{2}{59}\sqrt{403}e^1 \otimes e_3 + \frac{2}{59}\sqrt{403}e^2 \otimes e_7$	{14567, 1467, 15678, 1678, 34578, 3478, 357, 37}
83:2	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12}, \frac{2}{47}\sqrt{59}e^{13}, \frac{2}{47}\sqrt{59}e^{14}$	$(-\frac{4}{47}, \frac{30}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{29}{47}, \frac{26}{47}, \frac{7}{47}, \frac{7}{47})$ $+ \frac{2}{47}\sqrt{1121}e^2 \otimes e_5$	{12, 123478, 1237, 1345678, 13567, 156, 2346, 2368, 2678, 345, 358, 578}
83:2	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{714}e^{12}, \frac{7}{68}\sqrt{6}e^{13}, \frac{1}{68}\sqrt{714}e^{14}$	$(\frac{13}{136}, \frac{33}{136}, -\frac{29}{136}, -\frac{11}{68}, \frac{13}{68}, \frac{23}{68}, -\frac{2}{17}, -\frac{9}{136})$ $+ \frac{1}{68}\sqrt{1155}e^1 \otimes e_3 + \frac{1}{68}\sqrt{1155}e^2 \otimes e_8 + \frac{7}{68}\sqrt{6}e^5 \otimes e_7$	{1245, 1568, 2356, 3458}
83:2	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{2}{619}\sqrt{11818}e^{13}, \frac{12}{619}\sqrt{311}e^{14}$	$(-\frac{144}{619}, \frac{118}{619}, \frac{285}{619}, \frac{137}{619}, -\frac{193}{619}, -\frac{26}{619}, \frac{141}{619}, -\frac{7}{619})$ $+ \frac{2}{619}\sqrt{40119}e^2 \otimes e_5 + \frac{4}{619}\sqrt{11507}e^3 \otimes e_6$	{123, 12348, 145678, 1567, 246, 268, 3457, 3578}
83:2	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{8}{23}e^{14}$	$(-\frac{5}{23}, \frac{11}{23}, 0, \frac{1}{23}, \frac{12}{23}, \frac{6}{23}, -\frac{5}{23}, -\frac{4}{23})$ $+ \frac{12}{23}\sqrt{2}e^5 \otimes e_8 + \frac{4}{23}\sqrt{22}e^2 \otimes e_7$	{12345, 1238, 14567, 1678, 2468, 256, 3478, 357}
83:2	$0, 0, 0, 0, 0, \frac{12}{619}\sqrt{311}e^{12}, \frac{1}{619}\sqrt{127510}e^{13}, \frac{2}{619}\sqrt{11818}e^{14}$	$(\frac{152}{619}, -\frac{159}{619}, -\frac{140}{619}, -\frac{11}{619}, \frac{323}{619}, -\frac{7}{619}, \frac{12}{619}, \frac{141}{619})$ $+ \frac{2}{619}\sqrt{40119}e^5 \otimes e_7 + \frac{4}{619}\sqrt{11507}e^1 \otimes e_2$	{1345, 1358, 147, 178, 23478, 237, 2458, 25}
83:2	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{62}e^{12}, \frac{1}{59}\sqrt{1054}e^{13}, \frac{2}{59}\sqrt{62}e^{14}$	$(-\frac{18}{59}, \frac{29}{59}, \frac{16}{59}, \frac{3}{59}, \frac{7}{59}, \frac{11}{59}, -\frac{2}{59}, -\frac{15}{59})$ $+ \frac{2}{59}\sqrt{403}e^2 \otimes e_7 + \frac{2}{59}\sqrt{403}e^3 \otimes e_8$	{1234, 12345, 15678, 1678, 24568, 2468, 357, 37}
83:2	$0, 0, 0, 0, 0, \frac{5}{43}\sqrt{14}e^{12}, \frac{14}{43}e^{13}, \frac{5}{43}\sqrt{14}e^{14}$	$(\frac{11}{86}, \frac{11}{43}, -\frac{17}{86}, -\frac{17}{86}, \frac{4}{43}, \frac{33}{86}, -\frac{3}{43}, -\frac{3}{43})$ $+ \frac{1}{43}\sqrt{546}e^1 \otimes e_3 + \frac{1}{43}\sqrt{546}e^2 \otimes e_8$	{124, 1245, 1568, 168, 2356, 236, 3458, 348}
83:2	$0, 0, 0, 0, 0, \frac{8}{23}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{4}{23}\sqrt{6}e^{14}$	$(\frac{6}{23}, -\frac{10}{23}, 0, 0, \frac{12}{23}, -\frac{4}{23}, \frac{6}{23}, \frac{6}{23})$ $+ \frac{12}{23}\sqrt{2}e^5 \otimes e_6 + \frac{4}{23}\sqrt{22}e^1 \otimes e_2$	{1346, 1368, 1678, 234678, 2367, 26}
83:2	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{714}e^{12}, \frac{1}{68}\sqrt{714}e^{13}, \frac{7}{68}\sqrt{6}e^{14}$	$(-\frac{21}{68}, \frac{33}{136}, \frac{33}{136}, \frac{13}{68}, \frac{13}{68}, -\frac{9}{136}, -\frac{9}{136}, -\frac{2}{17})$ $+ \frac{1}{68}\sqrt{1155}e^2 \otimes e_7 - \frac{1}{68}\sqrt{1155}e^3 \otimes e_6 + \frac{7}{68}\sqrt{6}e^5 \otimes e_8$	{12348, 1235, 14678, 1567, 2456, 268}
83:2	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{714}e^{12}, \frac{1}{68}\sqrt{714}e^{13}, \frac{7}{68}\sqrt{6}e^{14}$	$(-\frac{21}{68}, \frac{33}{136}, \frac{33}{136}, \frac{13}{68}, \frac{13}{68}, -\frac{9}{136}, -\frac{9}{136}, -\frac{2}{17})$ $+ \frac{1}{68}\sqrt{1155}e^2 \otimes e_7 + \frac{1}{68}\sqrt{1155}e^3 \otimes e_6 + \frac{7}{68}\sqrt{6}e^5 \otimes e_8$	{12348, 1235, 14678, 1567, 2456, 268}
83:2	$0, 0, 0, 0, 0, \frac{1}{80}\sqrt{1209}e^{12}, \frac{1}{80}\sqrt{1209}e^{13}, \frac{1}{40}\sqrt{31}e^{14}$	$(\frac{1}{20}, \frac{49}{160}, -\frac{21}{160}, \frac{7}{80}, -\frac{27}{80}, \frac{57}{160}, -\frac{13}{160}, \frac{11}{80})$ $+ \frac{1}{80}\sqrt{2170}e^2 \otimes e_7 + \frac{3}{40}\sqrt{62}e^1 \otimes e_5$	{1234, 1238, 1467, 1678, 24568, 256, 34578, 357}
83:2	$0, 0, 0, 0, 0, \frac{3}{16}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13}, \frac{1}{8}\sqrt{17}e^{14}$	$(-\frac{1}{4}, \frac{23}{32}, -\frac{3}{16}, \frac{5}{16}, \frac{3}{16}, \frac{15}{32}, -\frac{11}{32}, \frac{1}{16})$ $+ \frac{1}{16}\sqrt{442}e^2 \otimes e_7$	{123, 123458, 12348, 1235, 145678, 14678, 1567, 167, 2456, 246, 2568, 268, 3457, 347, 3578, 378}
83:2	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{5}\sqrt{10}e^{13}, \frac{1}{5}\sqrt{10}e^{14}$	$(\frac{2}{5}, 0, 0, 0, -\frac{3}{5}, \frac{2}{5}, \frac{2}{5}, \frac{2}{5})$ $+ \frac{2}{5}\sqrt{10}e^1 \otimes e_5$	{1234, 1238, 1278, 1678, 2345678, 23567, 256, 5}
83:2	$0, 0, 0, 0, 0, \frac{5}{43}\sqrt{14}e^{12}, \frac{5}{43}\sqrt{14}e^{13}, \frac{14}{43}e^{14}$	$(-\frac{14}{43}, \frac{11}{43}, \frac{11}{43}, \frac{11}{43}, \frac{4}{43}, -\frac{3}{43}, -\frac{3}{43}, -\frac{3}{43})$ $+ \frac{1}{43}\sqrt{546}e^2 \otimes e_7 - \frac{1}{43}\sqrt{546}e^3 \otimes e_6$	{123, 123458, 12348, 1235, 145678, 14678, 1567, 167, 2456, 246, 2568, 268}
83:2	$0, 0, 0, 0, 0, \frac{5}{43}\sqrt{14}e^{12}, \frac{5}{43}\sqrt{14}e^{13}, \frac{14}{43}e^{14}$	$(-\frac{14}{43}, \frac{11}{43}, \frac{11}{43}, \frac{11}{43}, \frac{4}{43}, -\frac{3}{43}, -\frac{3}{43}, -\frac{3}{43})$ $+ \frac{1}{43}\sqrt{546}e^2 \otimes e_7 + \frac{1}{43}\sqrt{546}e^3 \otimes e_6$	{123, 123458, 12348, 1235, 145678, 14678, 1567, 167, 2456, 246, 2568, 268}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:2	$0, 0, 0, 0, 0, \frac{5}{431}\sqrt{822}e^{12}, \frac{40}{431}\sqrt{6}e^{13}, \frac{30}{431}\sqrt{14}e^{14}$	$(\frac{20}{431}, \frac{40}{431}, -\frac{55}{431}, -\frac{55}{431}, \frac{135}{431}, \frac{60}{431}, -\frac{35}{431}, -\frac{35}{431})$ $+ \frac{10}{431}\sqrt{159}e^5 \otimes e_6 + \frac{10}{431}\sqrt{222}e^1 \otimes e_3 + \frac{10}{431}\sqrt{222}e^2 \otimes e_8$	{1245, 168, 236, 3458}
83:2	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{10318}e^{12}, \frac{2}{239}\sqrt{134}e^{13}, \frac{2}{239}\sqrt{134}e^{14}$	$(\frac{8}{239}, \frac{16}{239}, -\frac{59}{239}, \frac{15}{239}, \frac{91}{239}, \frac{24}{239}, -\frac{51}{239}, \frac{23}{239})$ $+ \frac{12}{239}\sqrt{67}e^5 \otimes e_6 + \frac{2}{239}\sqrt{2479}e^1 \otimes e_3 + \frac{2}{239}\sqrt{2479}e^2 \otimes e_7$	{1467, 1678, 34578, 357}
83:2	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12}, \frac{2}{47}\sqrt{59}e^{13}, \frac{2}{47}\sqrt{59}e^{14}$	$(-\frac{4}{47}, -\frac{8}{47}, \frac{11}{47}, \frac{11}{47}, 1, -\frac{12}{47}, \frac{7}{47}, \frac{7}{47})$ $+ \frac{2}{47}\sqrt{1121}e^5 \otimes e_6$	{1234578, 12357, 125, 134678, 1367, 16, 2346, 2368, 2678, 345, 358, 578}
83:2	$0, 0, 0, 0, 0, \frac{8}{23}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{4}{23}\sqrt{6}e^{14}$	$(-\frac{5}{23}, \frac{10}{23}, \frac{11}{23}, 0, -\frac{6}{23}, \frac{5}{23}, \frac{6}{23}, -\frac{5}{23})$ $+ \frac{12}{23}\sqrt{2}e^2 \otimes e_5 + \frac{4}{23}\sqrt{2}e^3 \otimes e_8$	{1234, 1278, 13456, 15678, 2367, 2468, 357, 458}
83:2	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{12}{619}\sqrt{311}e^{13}, \frac{2}{619}\sqrt{11818}e^{14}$	$(\frac{152}{619}, \frac{118}{619}, -\frac{159}{619}, -\frac{11}{619}, -\frac{193}{619}, \frac{270}{619}, -\frac{7}{619}, \frac{141}{619})$ $+ \frac{2}{619}\sqrt{40119}e^2 \otimes e_5 + \frac{4}{619}\sqrt{11507}e^1 \otimes e_3$	{124, 128, 1456, 1568, 23468, 236, 3458, 35}
83:2	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13}, \frac{3}{16}\sqrt{17}e^{14}$	$(\frac{9}{16}, -\frac{1}{2}, -\frac{3}{32}, -\frac{3}{32}, \frac{3}{16}, \frac{1}{16}, \frac{15}{32}, \frac{15}{32})$ $+ \frac{1}{16}\sqrt{442}e^1 \otimes e_2$	{134, 1345, 1358, 138, 1578, 178, 2, 234578, 23478, 2357, 237, 25}
83:2	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{2}{619}\sqrt{11818}e^{13}, \frac{12}{619}\sqrt{311}e^{14}$	$(-\frac{144}{619}, \frac{156}{619}, -\frac{11}{619}, \frac{137}{619}, \frac{323}{619}, \frac{12}{619}, -\frac{155}{619}, -\frac{7}{619})$ $+ \frac{2}{619}\sqrt{40119}e^5 \otimes e_6 + \frac{4}{619}\sqrt{11507}e^2 \otimes e_7$	{123458, 1235, 14678, 167, 246, 268, 3457, 3578}
83:3	$0, 0, 0, 0, 0, \frac{4}{541}\sqrt{239}e^{12}, \frac{1}{541}\sqrt{87474}e^{13}, \frac{2}{541}\sqrt{13623}e^{24}$	$(-\frac{109}{541}, -\frac{40}{541}, \frac{90}{541}, \frac{220}{541}, \frac{66}{541}, -\frac{149}{541}, -\frac{19}{541}, \frac{180}{541})$ $+ \frac{2}{541}\sqrt{32026}e^4 \otimes e_7 + \frac{3}{541}\sqrt{10994}e^3 \otimes e_6$	{125678, 12678, 13458, 1348, 23578, 2378, 4568, 468}
83:3	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{1443}e^{12}, \frac{5}{101}\sqrt{222}e^{13}, \frac{2}{101}\sqrt{111}e^{24}$	$(\frac{50}{101}, -\frac{4}{101}, -\frac{5}{101}, \frac{22}{101}, -\frac{61}{101}, \frac{46}{101}, \frac{45}{101}, \frac{18}{101})$ $+ \frac{9}{101}\sqrt{222}e^1 \otimes e_5$	{123, 12348, 12478, 127, 1346, 1368, 1467, 1678, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
83:3	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{10}e^{13}, \frac{1}{8}\sqrt{10}e^{24}$	$(\frac{11}{16}, -\frac{1}{8}, -\frac{9}{16}, \frac{1}{4}, \frac{3}{16}, \frac{9}{16}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^1 \otimes e_3$	{12, 12458, 1248, 125, 1456, 146, 1568, 168, 234568, 23468, 2356, 236, 34, 345, 358, 38}
83:3	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2091}e^{12}, \frac{12}{199}\sqrt{246}e^{13}, \frac{2}{199}\sqrt{2337}e^{24}$	$(-\frac{15}{199}, \frac{38}{199}, -\frac{32}{199}, \frac{21}{199}, 1, \frac{23}{199}, -\frac{47}{199}, \frac{59}{199})$ $+ \frac{6}{199}\sqrt{2173}e^5 \otimes e_7$	{123456, 123568, 12467, 12678, 13458, 135, 1478, 17, 2347, 2378, 245, 258, 34678, 367, 4568, 56}
83:3	$0, 0, 0, 0, 0, \frac{5}{523}\sqrt{2298}e^{12}, \frac{1}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{55918}e^{24}$	$(\frac{223}{523}, -\frac{82}{523}, -\frac{160}{523}, -\frac{7}{523}, \frac{294}{523}, \frac{141}{523}, \frac{63}{523}, -\frac{89}{523})$ $+ \frac{1}{523}\sqrt{175414}e^1 \otimes e_3 + \frac{2}{523}\sqrt{43662}e^5 \otimes e_8$	{1245, 128, 1468, 156, 23456, 2368, 348, 35}
83:3	$0, 0, 0, 0, 0, \frac{7}{181}\sqrt{138}e^{12}, \frac{2}{181}\sqrt{1518}e^{13}, \frac{2}{181}\sqrt{345}e^{24}$	$(\frac{7}{181}, -\frac{20}{181}, \frac{56}{181}, \frac{29}{181}, -\frac{62}{181}, -\frac{13}{181}, \frac{63}{181}, \frac{9}{181})$ $+ \frac{9}{181}\sqrt{138}e^1 \otimes e_5 + \frac{9}{181}\sqrt{138}e^3 \otimes e_6$	{123, 12348, 1467, 1678, 24568, 256, 3457, 3578}
83:3	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{3}e^{12}, \frac{1}{17}\sqrt{17}e^{13}, \frac{1}{17}\sqrt{17}e^{24}$	$(-\frac{1}{17}, -\frac{1}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17})$ $+ \frac{1}{17}\sqrt{5}e^5 \otimes e_6 + \frac{2}{17}\sqrt{2}e^3 \otimes e_8 + \frac{3}{17}\sqrt{2}e^4 \otimes e_7$	{123456, 125678, 3567}
83:3	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{310}e^{12}, \frac{2}{35}\sqrt{155}e^{13}, \frac{2}{35}\sqrt{155}e^{24}$	$(\frac{4}{7}, -\frac{8}{35}, -\frac{3}{35}, -\frac{3}{35}, \frac{1}{5}, \frac{12}{35}, \frac{17}{35}, -\frac{11}{35})$ $+ \frac{2}{35}\sqrt{434}e^1 \otimes e_8$	{1234, 12345, 12457, 1247, 1356, 136, 1567, 167, 235678, 23678, 2568, 268, 34578, 3478, 458, 48}
83:3	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{10}e^{13}, \frac{1}{8}\sqrt{10}e^{24}$	$(-\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, 1, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^5 \otimes e_6$	{1234578, 12357, 125, 13467, 13678, 146, 168, 345, 358, 578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:3	$0, 0, 0, 0, 0, \frac{8}{181}\sqrt{95}e^{12}, \frac{4}{181}\sqrt{57}e^{13}, \frac{4}{181}\sqrt{133}e^{24}$	$(\frac{29}{181}, -\frac{37}{181}, -\frac{47}{181}, \frac{68}{181}, \frac{58}{181}, -\frac{8}{181}, -\frac{18}{181}, \frac{31}{181})$ $+ \frac{2}{181}\sqrt{1558}e^5 \otimes e_7 + \frac{2}{181}\sqrt{2470}e^4 \otimes e_6 + \frac{4}{181}\sqrt{551}e^1 \otimes e_3$	{1247, 167, 23678, 3478}
83:3	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2091}e^{12}, \frac{12}{199}\sqrt{246}e^{13}, \frac{2}{199}\sqrt{2337}e^{24}$	$(-\frac{15}{199}, \frac{38}{199}, \frac{127}{199}, \frac{21}{199}, -\frac{119}{199}, \frac{23}{199}, \frac{112}{199}, \frac{59}{199})$ $+ \frac{6}{199}\sqrt{2173}e^3 \otimes e_5$	{12346, 12368, 124567, 125678, 13, 1348, 14578, 157, 2347, 2378, 245, 258, 34678, 367, 4568, 56}
83:3	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{3}e^{12}, \frac{1}{16}\sqrt{14}e^{13}, \frac{1}{16}\sqrt{14}e^{24}$	$(\frac{1}{16}, \frac{1}{16}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{16}, -\frac{1}{16})$ $+ \frac{1}{16}\sqrt{10}e^5 \otimes e_6 + \frac{1}{8}\sqrt{6}e^1 \otimes e_8 + \frac{1}{8}\sqrt{6}e^2 \otimes e_7$	{12345, 167, 34578}
83:3	$0, 0, 0, 0, 0, \frac{28}{67}\sqrt{2}e^{12}, \frac{12}{67}\sqrt{21}e^{13}, \frac{12}{67}\sqrt{21}e^{24}$	$(-\frac{1}{67}, -\frac{1}{67}, \frac{40}{67}, -\frac{15}{67}, \frac{12}{67}, -\frac{2}{67}, \frac{39}{67}, -\frac{16}{67})$ $+ \frac{4}{67}\sqrt{385}e^3 \otimes e_8$	{123456, 12346, 125678, 12678, 13, 135, 14578, 1478, 23457, 2347, 258, 28, 3567, 367, 4568, 468}
83:3	$0, 0, 0, 0, 0, \frac{5}{523}\sqrt{2298}e^{12}, \frac{1}{523}\sqrt{2298}e^{13}, \frac{1}{523}\sqrt{55918}e^{24}$	$(\frac{223}{523}, -\frac{82}{523}, -\frac{160}{523}, \frac{221}{523}, -\frac{162}{523}, \frac{141}{523}, \frac{63}{523}, \frac{139}{523})$ $+ \frac{1}{523}\sqrt{175414}e^1 \otimes e_3 + \frac{2}{523}\sqrt{43662}e^4 \otimes e_5$	{124, 1258, 1468, 156, 2346, 23568, 348, 35}
83:3	$0, 0, 0, 0, 0, \frac{1}{643}\sqrt{142710}e^{12}, \frac{4}{643}\sqrt{2010}e^{13}, \frac{2}{643}\sqrt{8710}e^{24}$	$(\frac{178}{643}, \frac{104}{643}, -\frac{157}{643}, \frac{17}{643}, -\frac{231}{643}, \frac{282}{643}, \frac{21}{643}, \frac{121}{643})$ $+ \frac{10}{643}\sqrt{2010}e^2 \otimes e_5 + \frac{2}{643}\sqrt{45895}e^1 \otimes e_3$	{124, 128, 14568, 156, 2346, 2368, 3458, 35}
83:3	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{1443}e^{12}, \frac{5}{101}\sqrt{222}e^{13}, \frac{2}{101}\sqrt{111}e^{24}$	$(-\frac{31}{101}, -\frac{4}{101}, \frac{76}{101}, \frac{22}{101}, \frac{20}{101}, -\frac{35}{101}, \frac{45}{101}, \frac{18}{101})$ $+ \frac{9}{101}\sqrt{222}e^3 \otimes e_6$	{123, 123458, 12348, 1235, 14567, 1467, 15678, 1678, 24568, 2468, 256, 26, 3457, 347, 3578, 378}
83:3	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{22}e^{12}, \frac{2}{21}\sqrt{11}e^{13}, \frac{2}{21}\sqrt{11}e^{24}$	$(\frac{8}{63}, \frac{8}{63}, -\frac{11}{63}, -\frac{11}{63}, \frac{1}{9}, \frac{16}{63}, -\frac{1}{21}, -\frac{1}{21})$ $+ \frac{2}{63}\sqrt{154}e^1 \otimes e_8 + \frac{2}{63}\sqrt{154}e^2 \otimes e_7$	{1234, 12345, 1567, 167, 34578, 3478}
83:3	$0, 0, 0, 0, 0, \frac{14}{845}\sqrt{167}e^{12}, \frac{1}{845}\sqrt{83166}e^{13}, \frac{2}{845}\sqrt{7849}e^{24}$	$(\frac{33}{845}, -\frac{116}{845}, \frac{84}{845}, -\frac{18}{845}, \frac{284}{845}, -\frac{83}{845}, \frac{9}{65}, \frac{134}{845})$ $+ \frac{1}{845}\sqrt{85838}e^3 \otimes e_6 + \frac{4}{845}\sqrt{4342}e^5 \otimes e_7 + \frac{4}{845}\sqrt{6346}e^1 \otimes e_8$	{12345, 167, 2568, 3478}
83:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{1003}e^{12}, \frac{3}{169}\sqrt{590}e^{13}, \frac{2}{169}\sqrt{649}e^{24}$	$(\frac{21}{169}, -\frac{36}{169}, \frac{44}{169}, -\frac{2}{169}, \frac{20}{169}, -\frac{15}{169}, \frac{5}{13}, -\frac{38}{169})$ $+ \frac{1}{169}\sqrt{8142}e^3 \otimes e_6 + \frac{4}{169}\sqrt{590}e^1 \otimes e_8$	{1234, 12345, 1567, 167, 2568, 268, 34578, 3478}
83:3	$0, 0, 0, 0, 0, \frac{28}{65}e^{12}, \frac{2}{65}\sqrt{42}e^{13}, \frac{2}{65}\sqrt{42}e^{24}$	$(\frac{2}{13}, -\frac{11}{65}, -\frac{18}{65}, \frac{4}{13}, \frac{27}{65}, -\frac{1}{65}, -\frac{8}{65}, \frac{9}{65})$ $+ \frac{14}{65}\sqrt{6}e^1 \otimes e_3 + \frac{14}{65}\sqrt{6}e^5 \otimes e_6 + \frac{2}{65}\sqrt{238}e^4 \otimes e_7$	{12578, 167, 23678, 357}
83:3	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{781}e^{12}, \frac{4}{323}\sqrt{1846}e^{13}, \frac{6}{323}\sqrt{497}e^{24}$	$(\frac{5}{19}, -\frac{2}{19}, -\frac{64}{323}, -\frac{23}{323}, \frac{163}{323}, \frac{3}{19}, \frac{21}{323}, -\frac{3}{17})$ $+ \frac{2}{323}\sqrt{8733}e^5 \otimes e_7 + \frac{8}{323}\sqrt{710}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:3	$0, 0, 0, 0, 0, \frac{20}{1291}\sqrt{170}e^{12}, \frac{4}{1291}\sqrt{14705}e^{13}, \frac{4}{1291}\sqrt{15555}e^{24}$	$(-\frac{127}{1291}, -\frac{147}{1291}, \frac{66}{1291}, \frac{279}{1291}, \frac{472}{1291}, -\frac{274}{1291}, -\frac{61}{1291}, \frac{132}{1291})$ $+ \frac{2}{1291}\sqrt{49810}e^3 \otimes e_6 + \frac{2}{1291}\sqrt{60010}e^5 \otimes e_8 + \frac{4}{1291}\sqrt{22355}e^4 \otimes e_7$	{12678, 1348, 2378, 468}
83:3	$0, 0, 0, 0, 0, \frac{2}{655}\sqrt{14579}e^{12}, \frac{1}{655}\sqrt{123802}e^{13}, \frac{4}{655}\sqrt{5258}e^{24}$	$(-\frac{68}{655}, \frac{3}{131}, \frac{59}{655}, \frac{46}{131}, -\frac{36}{131}, -\frac{53}{655}, -\frac{9}{655}, \frac{49}{131})$ $+ \frac{1}{655}\sqrt{119022}e^3 \otimes e_5 + \frac{1}{655}\sqrt{161086}e^4 \otimes e_7$	{12346, 125678, 1348, 157, 2378, 245, 367, 4568}
83:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{1003}e^{12}, \frac{3}{169}\sqrt{590}e^{13}, \frac{2}{169}\sqrt{649}e^{24}$	$(\frac{10}{169}, \frac{44}{169}, -\frac{25}{169}, -\frac{2}{169}, -\frac{49}{169}, \frac{54}{169}, -\frac{15}{169}, \frac{42}{169})$ $+ \frac{1}{169}\sqrt{8142}e^1 \otimes e_5 + \frac{4}{169}\sqrt{590}e^2 \otimes e_7$	{1234, 1238, 14678, 167, 2456, 2568, 34578, 357}
83:3	$0, 0, 0, 0, 0, \frac{2}{649}\sqrt{10063}e^{12}, \frac{1}{649}\sqrt{136718}e^{13}, \frac{2}{649}\sqrt{1041}e^{24}$	$(-\frac{179}{649}, \frac{12}{649}, \frac{180}{649}, \frac{70}{649}, \frac{348}{649}, -\frac{167}{649}, \frac{1}{649}, \frac{82}{649})$ $+ \frac{1}{649}\sqrt{208894}e^3 \otimes e_6 + \frac{4}{649}\sqrt{11798}e^5 \otimes e_7$	{12345, 12358, 14678, 167, 2456, 2568, 3478, 37}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:3	$0, 0, 0, 0, 0, \frac{4}{337}\sqrt{551}e^{12}, \frac{4}{337}\sqrt{1073}e^{13}, \frac{8}{337}\sqrt{406}e^{24}$	$\left(\frac{36}{337}, -\frac{41}{337}, -\frac{80}{337}, \frac{72}{337}, \frac{147}{337}, -\frac{5}{337}, -\frac{44}{337}, \frac{31}{337}\right)$ $+ \frac{2}{337}\sqrt{2262}e^1 \otimes e_3 + \frac{2}{337}\sqrt{8758}e^4 \otimes e_7 + \frac{4}{337}\sqrt{1653}e^5 \otimes e_8$	{12678, 157, 2378, 3567}
83:3	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{646}e^{12}, \frac{2}{61}\sqrt{17}e^{13}, \frac{2}{61}\sqrt{17}e^{24}$	$\left(\frac{2}{61}, \frac{4}{61}, -\frac{15}{61}, \frac{3}{61}, \frac{23}{61}, \frac{6}{61}, -\frac{13}{61}, \frac{7}{61}\right)$ $+ \frac{2}{61}\sqrt{170}e^2 \otimes e_7 + \frac{6}{61}\sqrt{17}e^1 \otimes e_3 + \frac{6}{61}\sqrt{17}e^5 \otimes e_6$	{14678, 167, 34578, 357}
83:3	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{1334}e^{12}, \frac{2}{57}\sqrt{87}e^{13}, \frac{2}{57}\sqrt{87}e^{24}$	$\left(\frac{14}{57}, \frac{14}{57}, -\frac{5}{19}, -\frac{5}{19}, \frac{5}{57}, \frac{28}{57}, -\frac{1}{57}, -\frac{1}{57}\right)$ $+ \frac{2}{57}\sqrt{377}e^1 \otimes e_3 + \frac{2}{57}\sqrt{377}e^2 \otimes e_4$	{12, 125, 1456, 146, 34, 345}
83:3	$0, 0, 0, 0, 0, \frac{8}{161}\sqrt{58}e^{12}, \frac{2}{161}\sqrt{174}e^{13}, \frac{4}{161}\sqrt{203}e^{24}$	$\left(\frac{33}{161}, -\frac{2}{7}, -\frac{25}{161}, \frac{45}{161}, \frac{57}{161}, -\frac{13}{161}, \frac{8}{161}, -\frac{1}{161}\right)$ $+ \frac{2}{161}\sqrt{1247}e^5 \otimes e_8 + \frac{2}{161}\sqrt{1711}e^4 \otimes e_6 + \frac{6}{161}\sqrt{145}e^1 \otimes e_3$	{1245, 156, 2368, 348}
83:3	$0, 0, 0, 0, 0, \frac{1}{162}\sqrt{6302}e^{12}, \frac{1}{324}\sqrt{274}e^{13}, \frac{1}{162}\sqrt{1507}e^{24}$	$\left(\frac{95}{648}, \frac{47}{216}, -\frac{179}{648}, -\frac{133}{648}, \frac{95}{324}, \frac{59}{162}, -\frac{7}{54}, \frac{1}{81}\right)$ $+ \frac{1}{324}\sqrt{18906}e^5 \otimes e_7 + \frac{1}{324}\sqrt{31373}e^1 \otimes e_3 + \frac{1}{324}\sqrt{31373}e^2 \otimes e_4$	{127, 1467, 2367, 347}
83:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{1003}e^{12}, \frac{2}{169}\sqrt{649}e^{13}, \frac{3}{169}\sqrt{590}e^{24}$	$\left(\frac{44}{169}, -\frac{59}{169}, -\frac{2}{169}, \frac{44}{169}, \frac{20}{169}, -\frac{15}{169}, \frac{42}{169}, -\frac{15}{169}\right)$ $+ \frac{1}{169}\sqrt{8142}e^4 \otimes e_6 + \frac{4}{169}\sqrt{590}e^1 \otimes e_8$	{1234, 12345, 12457, 1247, 1356, 136, 1567, 167, 235678, 23678, 2568, 268, 34578, 3478, 458, 48}
83:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{1003}e^{12}, \frac{2}{169}\sqrt{649}e^{13}, \frac{3}{169}\sqrt{590}e^{24}$	$\left(\frac{44}{169}, -\frac{59}{169}, -\frac{2}{169}, \frac{44}{169}, \frac{20}{169}, -\frac{15}{169}, \frac{42}{169}, -\frac{15}{169}\right)$ $- \frac{1}{169}\sqrt{8142}e^4 \otimes e_6 + \frac{4}{169}\sqrt{590}e^1 \otimes e_8$	{1234, 12345, 12457, 1247, 1356, 136, 1567, 167, 235678, 23678, 2568, 268, 34578, 3478, 458, 48}
83:3	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{1334}e^{12}, \frac{2}{57}\sqrt{87}e^{13}, \frac{2}{57}\sqrt{87}e^{24}$	$\left(\frac{14}{57}, -\frac{4}{19}, -\frac{5}{19}, \frac{11}{57}, \frac{31}{57}, \frac{2}{57}, -\frac{1}{57}, -\frac{1}{57}\right)$ $+ \frac{2}{57}\sqrt{377}e^1 \otimes e_3 + \frac{2}{57}\sqrt{377}e^5 \otimes e_6$	{12458, 125, 146, 168, 23468, 236, 345, 358}
83:3	$0, 0, 0, 0, 0, \frac{4}{541}\sqrt{239}e^{12}, \frac{1}{541}\sqrt{87474}e^{13}, \frac{2}{541}\sqrt{13623}e^{24}$	$\left(\frac{98}{541}, -\frac{40}{541}, -\frac{117}{541}, \frac{220}{541}, -\frac{141}{541}, \frac{58}{541}, -\frac{19}{541}, \frac{180}{541}\right)$ $+ \frac{2}{541}\sqrt{32026}e^4 \otimes e_7 + \frac{3}{541}\sqrt{10994}e^1 \otimes e_5$	{12346, 12678, 1348, 17, 23578, 245, 3567, 4568}
83:3	$0, 0, 0, 0, 0, \frac{10}{269}\sqrt{89}e^{12}, \frac{6}{269}\sqrt{445}e^{13}, \frac{4}{269}\sqrt{890}e^{24}$	$\left(-\frac{34}{269}, -\frac{29}{269}, \frac{115}{269}, -\frac{4}{269}, \frac{145}{269}, -\frac{63}{269}, \frac{81}{269}, -\frac{33}{269}\right)$ $+ \frac{2}{269}\sqrt{9701}e^5 \otimes e_8 + \frac{4}{269}\sqrt{2759}e^3 \otimes e_6$	{12345, 1238, 14678, 1567, 2456, 268, 3478, 357}
83:3	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{6}e^{12}, \frac{1}{12}\sqrt{10}e^{13}, \frac{1}{12}\sqrt{10}e^{24}$	$\left(-\frac{1}{12}, -\frac{1}{12}, \frac{1}{8}, \frac{1}{8}, \frac{1}{12}, -\frac{1}{6}, \frac{1}{24}, \frac{1}{24}\right)$ $+ \frac{1}{12}\sqrt{11}e^3 \otimes e_8 + \frac{1}{12}\sqrt{11}e^4 \otimes e_7$	{123456, 12346, 125678, 12678, 3567, 367}
83:3	$0, 0, 0, 0, 0, \frac{2}{655}\sqrt{14579}e^{12}, \frac{1}{655}\sqrt{123802}e^{13}, \frac{4}{655}\sqrt{5258}e^{24}$	$\left(-\frac{68}{655}, \frac{3}{131}, \frac{147}{655}, -\frac{107}{655}, \frac{318}{655}, -\frac{53}{655}, \frac{79}{655}, -\frac{92}{655}\right)$ $+ \frac{1}{655}\sqrt{119022}e^5 \otimes e_7 + \frac{1}{655}\sqrt{161086}e^3 \otimes e_8$	{123456, 12678, 135, 1478, 2347, 258, 367, 4568}
83:3	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{781}e^{12}, \frac{4}{323}\sqrt{1846}e^{13}, \frac{6}{323}\sqrt{497}e^{24}$	$\left(\frac{5}{19}, -\frac{2}{19}, \frac{59}{323}, -\frac{23}{323}, -\frac{83}{323}, \frac{3}{19}, \frac{144}{323}, -\frac{3}{17}\right)$ $+ \frac{2}{323}\sqrt{8733}e^3 \otimes e_5 + \frac{8}{323}\sqrt{710}e^1 \otimes e_8$	{1234, 12457, 136, 1567, 23678, 2568, 3478, 458}
83:3	$0, 0, 0, 0, 0, \frac{5}{523}\sqrt{2298}e^{12}, \frac{1}{523}\sqrt{55918}e^{13}, \frac{1}{523}\sqrt{2298}e^{24}$	$\left(\frac{147}{523}, -\frac{6}{523}, -\frac{236}{523}, \frac{69}{523}, \frac{294}{523}, \frac{141}{523}, -\frac{89}{523}, \frac{63}{523}\right)$ $+ \frac{1}{523}\sqrt{175414}e^1 \otimes e_3 + \frac{2}{523}\sqrt{43662}e^5 \otimes e_7$	{12478, 127, 1467, 1678, 234678, 2367, 347, 378}
83:3	$0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{4}\sqrt{2}e^{24}$	$\left(\frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{2}, 0, \frac{1}{4}, -\frac{1}{4}\right)$ $+ \frac{1}{2}\sqrt{2}e^1 \otimes e_8 + \frac{1}{4}\sqrt{6}e^5 \otimes e_6$	{12345, 12457, 136, 167, 23678, 268, 34578, 458}
83:3	$0, 0, 0, 0, 0, \frac{10}{269}\sqrt{89}e^{12}, \frac{4}{269}\sqrt{890}e^{13}, \frac{6}{269}\sqrt{445}e^{24}$	$\left(-\frac{29}{269}, -\frac{34}{269}, \frac{105}{269}, \frac{115}{269}, -\frac{73}{269}, -\frac{63}{269}, \frac{76}{269}, \frac{81}{269}\right)$ $+ \frac{2}{269}\sqrt{9701}e^3 \otimes e_5 + \frac{4}{269}\sqrt{2759}e^4 \otimes e_6$	{1234, 12457, 136, 1567, 23678, 2568, 3478, 458}
83:3	$0, 0, 0, 0, 0, \frac{1}{643}\sqrt{142710}e^{12}, \frac{4}{643}\sqrt{2010}e^{13}, \frac{2}{643}\sqrt{8710}e^{24}$	$\left(\frac{178}{643}, -\frac{196}{643}, -\frac{157}{643}, \frac{317}{643}, \frac{69}{643}, -\frac{18}{643}, \frac{21}{643}, \frac{121}{643}\right)$ $+ \frac{10}{643}\sqrt{2010}e^4 \otimes e_6 + \frac{2}{643}\sqrt{45895}e^1 \otimes e_3$	{124, 1245, 156, 16, 23568, 2368, 3458, 348}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:3	$0, 0, 0, 0, 0, \frac{10}{41}e^{12}, \frac{4}{41}\sqrt{10}e^{13}, \frac{6}{41}\sqrt{5}e^{24}$	$(\frac{7}{41}, -\frac{10}{41}, -\frac{4}{41}, \frac{7}{41}, \frac{13}{41}, -\frac{3}{41}, \frac{3}{41}, -\frac{3}{41})$ $-\frac{4}{41}\sqrt{15}e^4 \otimes e_6 + \frac{6}{41}\sqrt{5}e^5 \otimes e_7 + \frac{8}{41}\sqrt{5}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:3	$0, 0, 0, 0, 0, \frac{10}{41}e^{12}, \frac{4}{41}\sqrt{10}e^{13}, \frac{6}{41}\sqrt{5}e^{24}$	$(\frac{7}{41}, -\frac{10}{41}, -\frac{4}{41}, \frac{7}{41}, \frac{13}{41}, -\frac{3}{41}, \frac{3}{41}, -\frac{3}{41})$ $+\frac{4}{41}\sqrt{15}e^4 \otimes e_6 + \frac{6}{41}\sqrt{5}e^5 \otimes e_7 + \frac{8}{41}\sqrt{5}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:3	$0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{4}\sqrt{2}e^{24}$	$(\frac{1}{8}, \frac{1}{4}, -\frac{3}{8}, 0, \frac{1}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+\frac{1}{2}\sqrt{2}e^2 \otimes e_7 + \frac{1}{4}\sqrt{6}e^1 \otimes e_3$	{145678, 14678, 1567, 167, 34578, 3478, 357, 37}
83:3	$0, 0, 0, 0, 0, \frac{1}{221}\sqrt{4234}e^{12}, \frac{3}{221}\sqrt{438}e^{13}, \frac{1}{221}\sqrt{6862}e^{24}$	$(\frac{1}{13}, \frac{2}{13}, -\frac{56}{221}, -\frac{25}{221}, \frac{82}{221}, \frac{3}{13}, -\frac{3}{17}, \frac{9}{221})$ $+\frac{1}{221}\sqrt{7446}e^1 \otimes e_3 + \frac{2}{221}\sqrt{2190}e^5 \otimes e_8 + \frac{4}{221}\sqrt{803}e^2 \otimes e_7$	{14678, 1567, 3478, 357}
83:3	$0, 0, 0, 0, 0, \frac{4}{541}\sqrt{239}e^{12}, \frac{1}{541}\sqrt{87474}e^{13}, \frac{2}{541}\sqrt{13623}e^{24}$	$(\frac{98}{541}, -\frac{40}{541}, \frac{151}{541}, -\frac{48}{541}, -\frac{141}{541}, \frac{58}{541}, \frac{249}{541}, -\frac{88}{541})$ $+\frac{2}{541}\sqrt{32026}e^3 \otimes e_8 + \frac{3}{541}\sqrt{10994}e^1 \otimes e_5$	{12346, 12678, 13, 1478, 23457, 258, 3567, 4568}
83:3	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{781}e^{12}, \frac{6}{323}\sqrt{497}e^{13}, \frac{4}{323}\sqrt{1846}e^{24}$	$(\frac{126}{323}, -\frac{75}{323}, -\frac{23}{323}, \frac{59}{323}, -\frac{83}{323}, \frac{3}{19}, \frac{103}{323}, -\frac{16}{323})$ $+\frac{2}{323}\sqrt{8733}e^4 \otimes e_5 + \frac{8}{323}\sqrt{710}e^1 \otimes e_8$	{1234, 1247, 1356, 1567, 235678, 2568, 3478, 48}
83:3	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{34}e^{12}, \frac{3}{41}\sqrt{10}e^{13}, \frac{3}{41}\sqrt{10}e^{24}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{15}{41}, \frac{6}{41}, -\frac{3}{41}, -\frac{3}{41})$ $+\frac{3}{41}\sqrt{26}e^1 \otimes e_3 + \frac{3}{41}\sqrt{26}e^2 \otimes e_4 + \frac{4}{41}\sqrt{26}e^5 \otimes e_6$	{125, 146, 345}
83:3	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{2}e^{12}, \frac{4}{37}\sqrt{13}e^{13}, \frac{4}{37}\sqrt{13}e^{24}$	$(\frac{9}{37}, -\frac{7}{37}, -\frac{9}{37}, \frac{8}{37}, \frac{4}{37}, \frac{2}{37}, 0, \frac{1}{37})$ $+\frac{16}{37}e^1 \otimes e_8 + \frac{4}{37}\sqrt{17}e^4 \otimes e_7$	{123456, 12346, 157, 17, 23578, 2378, 4568, 468}
83:3	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{462}e^{12}, \frac{2}{41}\sqrt{42}e^{13}, \frac{2}{41}\sqrt{42}e^{24}$	$(\frac{8}{41}, -\frac{10}{41}, \frac{1}{41}, \frac{19}{41}, \frac{13}{41}, -\frac{2}{41}, \frac{9}{41}, \frac{9}{41})$ $+\frac{6}{41}\sqrt{21}e^1 \otimes e_5 + \frac{6}{41}\sqrt{21}e^4 \otimes e_6$	{1234, 1247, 136, 167, 235678, 2568, 34578, 458}
83:4	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{130}e^{12}, \frac{5}{103}\sqrt{38}e^{13}, \frac{15}{103}\sqrt{6}e^{14} + \frac{5}{103}\sqrt{38}e^{23}$	$(\frac{57}{206}, \frac{15}{103}, -\frac{8}{103}, -\frac{43}{206}, -\frac{35}{103}, \frac{87}{206}, \frac{41}{206}, \frac{7}{103})$ $+\frac{10}{103}\sqrt{46}e^1 \otimes e_4 + \frac{10}{103}\sqrt{46}e^2 \otimes e_5$	{123, 1567, 23467, 45}
83:4	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{141}e^{12}, \frac{2}{91}\sqrt{141}e^{13}, \frac{2}{91}\sqrt{94}e^{14} + \frac{5}{91}\sqrt{94}e^{23}$	$(-\frac{5}{91}, \frac{22}{91}, -\frac{20}{91}, \frac{1}{13}, \frac{7}{91}, \frac{17}{91}, -\frac{25}{91}, \frac{2}{91})$ $+\frac{2}{91}\sqrt{893}e^5 \otimes e_8 + \frac{2}{91}\sqrt{987}e^2 \otimes e_7$	{12345, 14567, 2468, 3478}
83:4	$0, 0, 0, 0, 0, \frac{9}{268}\sqrt{181}e^{12}, \frac{3}{268}\sqrt{1086}e^{13}, \frac{9}{268}\sqrt{181}e^{14} + \frac{5}{268}\sqrt{362}e^{23}$	$(-\frac{75}{268}, \frac{35}{536}, \frac{31}{268}, \frac{247}{536}, \frac{137}{536}, -\frac{115}{536}, -\frac{11}{67}, \frac{97}{536})$ $+\frac{1}{268}\sqrt{47422}e^4 \otimes e_6 + \frac{1}{67}\sqrt{2353}e^5 \otimes e_7$	{1247, 1678, 256, 458}
83:4	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{12}, \frac{6}{53}\sqrt{10}e^{13}, \frac{6}{53}\sqrt{10}e^{14} + \frac{6}{53}\sqrt{10}e^{23}$	$(\frac{15}{53}, -\frac{3}{53}, -\frac{3}{53}, -\frac{21}{53}, \frac{30}{53}, \frac{12}{53}, \frac{12}{53}, -\frac{6}{53})$ $+\frac{6}{53}\sqrt{46}e^1 \otimes e_4 + \frac{6}{53}\sqrt{46}e^5 \otimes e_8$	{1278, 2468}
83:4	$0, 0, 0, 0, 0, \frac{25}{3613}\sqrt{2262}e^{12}, \frac{50}{3613}\sqrt{346}e^{13}, \frac{100}{3613}\sqrt{69}e^{14} + \frac{100}{3613}\sqrt{10}e^{23}$	$(\frac{200}{3613}, \frac{300}{3613}, -\frac{525}{3613}, -\frac{425}{3613}, \frac{1125}{3613}, \frac{500}{3613}, -\frac{325}{3613}, -\frac{225}{3613})$ $+\frac{100}{3613}\sqrt{158}e^2 \otimes e_7 + \frac{300}{3613}\sqrt{17}e^1 \otimes e_4 + \frac{50}{3613}\sqrt{439}e^5 \otimes e_6$	{1235, 167}
83:4	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{38}e^{12}, \frac{15}{103}\sqrt{6}e^{13}, \frac{5}{103}\sqrt{130}e^{14} + \frac{5}{103}\sqrt{38}e^{23}$	$(-\frac{35}{206}, -\frac{8}{103}, \frac{15}{103}, \frac{49}{206}, \frac{57}{103}, -\frac{51}{206}, -\frac{5}{206}, \frac{7}{103})$ $+\frac{10}{103}\sqrt{46}e^4 \otimes e_6 + \frac{10}{103}\sqrt{46}e^5 \otimes e_8$	{123457, 13678, 2356, 348}
83:4	$0, 0, 0, 0, 0, \frac{3}{83}\sqrt{70}e^{12}, \frac{3}{83}\sqrt{6}e^{13}, \frac{18}{83}\sqrt{2}e^{14} + \frac{3}{83}\sqrt{70}e^{23}$	$(-\frac{15}{83}, \frac{9}{83}, -\frac{3}{83}, \frac{21}{83}, \frac{33}{83}, -\frac{6}{83}, -\frac{18}{83}, \frac{6}{83})$ $+\frac{6}{83}\sqrt{37}e^2 \otimes e_7 + \frac{6}{83}\sqrt{38}e^4 \otimes e_6 + \frac{6}{83}\sqrt{38}e^5 \otimes e_8$	{13678, 2356}
83:4	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{38}e^{12}, \frac{5}{103}\sqrt{38}e^{13}, \frac{2}{103}\sqrt{209}e^{14} + \frac{5}{103}\sqrt{38}e^{23}$	$(-\frac{19}{103}, \frac{6}{103}, \frac{6}{103}, \frac{31}{103}, \frac{9}{103}, -\frac{13}{103}, -\frac{13}{103}, \frac{12}{103})$ $+\frac{1}{103}\sqrt{1786}e^2 \otimes e_7 - \frac{1}{103}\sqrt{1786}e^3 \otimes e_6$	{123, 1235, 1567, 167, 2568, 268}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:4	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{38}e^{12}, \frac{5}{103}\sqrt{38}e^{13}, \frac{2}{103}\sqrt{209}e^{14} + \frac{5}{103}\sqrt{38}e^{23}$	$(-\frac{19}{103}, \frac{6}{103}, \frac{6}{103}, \frac{31}{103}, \frac{9}{103}, -\frac{13}{103}, -\frac{13}{103}, \frac{12}{103})$ $+ \frac{1}{103}\sqrt{1786}e^2 \otimes e_7 + \frac{1}{103}\sqrt{1786}e^3 \otimes e_6$	{123, 1235, 1567, 167, 2568, 268}
83:4	$0, 0, 0, 0, 0, \frac{3}{368}\sqrt{2665}e^{12}, \frac{3}{368}\sqrt{2665}e^{13}, \frac{3}{46}\sqrt{26}e^{14} + \frac{3}{184}\sqrt{143}e^{23}$	$(\frac{55}{368}, \frac{165}{736}, -\frac{179}{736}, -\frac{31}{184}, \frac{35}{368}, \frac{275}{736}, -\frac{3}{32}, -\frac{7}{368})$ $+ \frac{3}{184}\sqrt{1118}e^2 \otimes e_7 + \frac{3}{368}\sqrt{4186}e^1 \otimes e_4$	{123, 1235, 1567, 167}
83:4	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{94}e^{12}, \frac{2}{91}\sqrt{141}e^{13}, \frac{2}{91}\sqrt{94}e^{14} + \frac{2}{91}\sqrt{141}e^{23}$	$(-\frac{24}{91}, \frac{22}{91}, -\frac{1}{91}, \frac{45}{91}, \frac{11}{91}, -\frac{2}{91}, -\frac{25}{91}, \frac{3}{13})$ $+ \frac{2}{91}\sqrt{893}e^4 \otimes e_6 + \frac{2}{91}\sqrt{987}e^2 \otimes e_7$	{1234, 12345, 34578, 3478}
83:4	$0, 0, 0, 0, 0, \frac{5}{103}\sqrt{130}e^{12}, \frac{15}{103}\sqrt{6}e^{13}, \frac{5}{103}\sqrt{38}e^{14} + \frac{5}{103}\sqrt{38}e^{23}$	$(-\frac{35}{206}, \frac{15}{103}, \frac{15}{103}, \frac{95}{206}, -\frac{35}{103}, -\frac{5}{206}, -\frac{5}{206}, \frac{30}{103})$ $+ \frac{10}{103}\sqrt{46}e^2 \otimes e_5 + \frac{10}{103}\sqrt{46}e^4 \otimes e_6$	{12347, 135678, 236, 3458}
83:4	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{12}, \frac{6}{53}\sqrt{10}e^{13}, \frac{6}{53}\sqrt{10}e^{14} + \frac{6}{53}\sqrt{10}e^{23}$	$(-\frac{8}{53}, \frac{20}{53}, -\frac{3}{53}, \frac{25}{53}, -\frac{16}{53}, \frac{12}{53}, -\frac{11}{53}, \frac{17}{53})$ $+ \frac{6}{53}\sqrt{46}e^2 \otimes e_5 + \frac{6}{53}\sqrt{46}e^4 \otimes e_7$	{1234, 1278, 2367, 2468}
83:4	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{34230}e^{12}, \frac{2}{343}\sqrt{3097}e^{13}, \frac{4}{343}\sqrt{978}e^{14} + \frac{2}{343}\sqrt{3097}e^{23}$	$(-\frac{58}{343}, \frac{66}{343}, -\frac{39}{343}, \frac{85}{343}, \frac{171}{343}, \frac{8}{343}, -\frac{97}{343}, \frac{27}{343})$ $+ \frac{2}{343}\sqrt{10921}e^5 \otimes e_6 + \frac{2}{343}\sqrt{14018}e^2 \otimes e_7$	{1235, 167, 268, 3578}
83:4	$0, 0, 0, 0, 0, \frac{3}{115}\sqrt{642}e^{12}, \frac{3}{115}\sqrt{642}e^{13}, \frac{3}{115}\sqrt{642}e^{14} + \frac{2}{115}\sqrt{1070}e^{23}$	$(\frac{34}{115}, \frac{14}{115}, \frac{14}{115}, -\frac{6}{115}, -\frac{73}{115}, \frac{48}{115}, \frac{48}{115}, \frac{28}{115})$ $+ \frac{2}{115}\sqrt{5029}e^1 \otimes e_5$	{1238, 1247, 1678, 2345678, 256, 458}
83:4	$0, 0, 0, 0, 0, \frac{3}{115}\sqrt{642}e^{12}, \frac{3}{115}\sqrt{642}e^{13}, \frac{2}{115}\sqrt{1070}e^{14} + \frac{3}{115}\sqrt{642}e^{23}$	$(-\frac{13}{115}, \frac{61}{115}, -\frac{33}{115}, \frac{41}{115}, \frac{21}{115}, \frac{48}{115}, -\frac{2}{5}, \frac{28}{115})$ $+ \frac{2}{115}\sqrt{5029}e^2 \otimes e_7$	{123, 1235, 1567, 167, 2568, 268, 3578, 378}
83:4	$0, 0, 0, 0, 0, \frac{1}{361}\sqrt{43942}e^{12}, \frac{2}{361}\sqrt{4498}e^{13}, \frac{6}{361}\sqrt{346}e^{14} + \frac{6}{361}\sqrt{346}e^{23}$	$(\frac{68}{361}, -\frac{56}{361}, \frac{1}{19}, \frac{105}{361}, \frac{185}{343}, \frac{12}{361}, \frac{87}{361}, -\frac{37}{361})$ $+ \frac{10}{361}\sqrt{519}e^5 \otimes e_6 + \frac{4}{361}\sqrt{3806}e^1 \otimes e_4$	{1257, 136, 246, 3457}
83:4	$0, 0, 0, 0, 0, \frac{1}{106}\sqrt{2091}e^{12}, \frac{1}{106}\sqrt{2091}e^{13}, \frac{1}{53}\sqrt{41}e^{14} + \frac{1}{53}\sqrt{41}e^{23}$	$(\frac{3}{53}, \frac{63}{212}, -\frac{31}{212}, \frac{5}{53}, -\frac{35}{106}, \frac{75}{212}, -\frac{19}{212}, \frac{8}{53})$ $+ \frac{1}{106}\sqrt{3854}e^1 \otimes e_5 + \frac{1}{106}\sqrt{3854}e^2 \otimes e_7$	{1234, 1467, 24568, 34578}
83:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{12}, \frac{1}{28}\sqrt{493}e^{13}, \frac{1}{28}\sqrt{174}e^{14} + \frac{1}{28}\sqrt{174}e^{23}$	$(\frac{1}{2}, -\frac{1}{56}, -\frac{1}{56}, -\frac{15}{28}, \frac{5}{28}, \frac{27}{56}, \frac{27}{56}, -\frac{1}{28})$ $+ \frac{1}{28}\sqrt{1334}e^1 \otimes e_4$	{1257, 127, 2456, 246}
83:4	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{11398}e^{12}, \frac{2}{111}\sqrt{278}e^{13}, \frac{2}{111}\sqrt{278}e^{14} + \frac{2}{111}\sqrt{278}e^{23}$	$(-\frac{4}{37}, -\frac{16}{111}, \frac{29}{111}, \frac{25}{111}, \frac{1}{111}, -\frac{28}{111}, \frac{17}{111}, \frac{13}{111})$ $+ \frac{2}{37}\sqrt{695}e^5 \otimes e_6$	{1234578, 125, 1367, 1468, 2368, 2467, 345, 578}
83:4	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{278}e^{12}, \frac{2}{111}\sqrt{278}e^{13}, \frac{1}{111}\sqrt{11398}e^{14} + \frac{2}{111}\sqrt{278}e^{23}$	$(-\frac{4}{37}, \frac{29}{111}, \frac{29}{111}, \frac{70}{111}, -\frac{23}{37}, \frac{17}{111}, \frac{17}{111}, \frac{58}{111})$ $+ \frac{2}{37}\sqrt{695}e^4 \otimes e_5$	{1235678, 1246, 158, 2348, 257, 4678}
83:4	$0, 0, 0, 0, 0, \frac{4}{247}\sqrt{615}e^{12}, \frac{4}{247}\sqrt{615}e^{13}, \frac{4}{247}\sqrt{205}e^{14} + \frac{4}{247}\sqrt{615}e^{23}$	$(-\frac{37}{247}, \frac{100}{247}, -\frac{27}{247}, \frac{110}{247}, -\frac{54}{247}, \frac{63}{247}, -\frac{64}{247}, \frac{73}{247})$ $+ \frac{2}{247}\sqrt{10414}e^2 \otimes e_7 + \frac{2}{247}\sqrt{7134}e^4 \otimes e_5$	{1234, 1467, 2468, 3478}
83:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{12}, \frac{1}{28}\sqrt{174}e^{13}, \frac{1}{28}\sqrt{174}e^{14} + \frac{1}{28}\sqrt{493}e^{23}$	$(\frac{5}{56}, \frac{11}{28}, -\frac{1}{56}, \frac{2}{7}, -\frac{9}{14}, \frac{27}{56}, \frac{1}{14}, \frac{3}{8})$ $+ \frac{1}{28}\sqrt{1334}e^2 \otimes e_5$	{1237, 1248, 1345678, 156, 2346, 2678, 358, 457}
83:4	$0, 0, 0, 0, 0, \frac{4}{167}\sqrt{210}e^{12}, \frac{4}{167}\sqrt{210}e^{13}, \frac{16}{167}\sqrt{6}e^{14} + \frac{24}{167}\sqrt{3}e^{23}$	$(\frac{20}{167}, \frac{30}{167}, -\frac{38}{167}, -\frac{28}{167}, \frac{40}{167}, \frac{50}{167}, -\frac{18}{167}, -\frac{8}{167})$ $+ \frac{20}{167}\sqrt{6}e^5 \otimes e_8 + \frac{4}{167}\sqrt{354}e^1 \otimes e_4 + \frac{8}{167}\sqrt{102}e^2 \otimes e_7$	{1235, 1567}
83:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{174}e^{12}, \frac{1}{28}\sqrt{174}e^{13}, \frac{1}{28}\sqrt{493}e^{14} + \frac{1}{28}\sqrt{493}e^{23}$	$(\frac{5}{56}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{8}, \frac{1}{14}, \frac{1}{14}, -\frac{1}{28})$ $+ \frac{1}{28}\sqrt{1334}e^5 \otimes e_8$	{1234567, 1268, 145, 235, 2478, 567}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:4	$0, 0, 0, 0, 0, \frac{10}{161}\sqrt{15}e^{12}, \frac{10}{161}\sqrt{15}e^{13}, \frac{10}{161}\sqrt{11}e^{14} + \frac{5}{161}\sqrt{82}e^{23}$	$(-\frac{25}{161}, \frac{5}{161}, \frac{5}{161}, \frac{5}{23}, \frac{5}{23}, -\frac{20}{161}, -\frac{20}{161}, \frac{10}{161})$ $+ \frac{10}{161}\sqrt{11}e^5 \otimes e_8 + \frac{15}{161}\sqrt{14}e^2 \otimes e_7 - \frac{15}{161}\sqrt{14}e^3 \otimes e_6$	{1235, 1567, 268}
83:4	$0, 0, 0, 0, 0, \frac{10}{161}\sqrt{15}e^{12}, \frac{10}{161}\sqrt{15}e^{13}, \frac{10}{161}\sqrt{11}e^{14} + \frac{5}{161}\sqrt{82}e^{23}$	$(-\frac{25}{161}, \frac{5}{161}, \frac{5}{161}, \frac{5}{23}, \frac{5}{23}, -\frac{20}{161}, -\frac{20}{161}, \frac{10}{161})$ $+ \frac{10}{161}\sqrt{11}e^5 \otimes e_8 + \frac{15}{161}\sqrt{14}e^2 \otimes e_7 + \frac{15}{161}\sqrt{14}e^3 \otimes e_6$	{1235, 1567, 268}
83:4	$0, 0, 0, 0, 0, \frac{3}{368}\sqrt{2665}e^{12}, \frac{3}{184}\sqrt{143}e^{13}, \frac{3}{46}\sqrt{26}e^{14} + \frac{3}{368}\sqrt{2665}e^{23}$	$(-\frac{51}{736}, -\frac{9}{368}, \frac{165}{736}, \frac{99}{368}, -\frac{63}{184}, -\frac{3}{32}, \frac{57}{368}, \frac{147}{736})$ $+ \frac{3}{184}\sqrt{1118}e^3 \otimes e_6 + \frac{3}{368}\sqrt{4186}e^2 \otimes e_5$	{123, 1567, 268, 3578}
83:4	$0, 0, 0, 0, 0, \frac{3}{368}\sqrt{2665}e^{12}, \frac{3}{184}\sqrt{143}e^{13}, \frac{3}{368}\sqrt{2665}e^{14} + \frac{3}{46}\sqrt{26}e^{23}$	$(-\frac{5}{92}, -\frac{7}{736}, \frac{77}{368}, \frac{187}{736}, -\frac{137}{368}, -\frac{47}{736}, \frac{57}{368}, \frac{147}{736})$ $+ \frac{3}{184}\sqrt{1118}e^1 \otimes e_5 + \frac{3}{368}\sqrt{4186}e^4 \otimes e_6$	{1247, 1678, 256, 458}
83:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{12}, \frac{1}{28}\sqrt{174}e^{13}, \frac{1}{28}\sqrt{493}e^{14} + \frac{1}{28}\sqrt{174}e^{23}$	$(-\frac{9}{28}, -\frac{1}{56}, \frac{11}{28}, \frac{39}{56}, \frac{5}{28}, -\frac{19}{56}, \frac{1}{14}, \frac{3}{8})$ $+ \frac{1}{28}\sqrt{1334}e^4 \otimes e_6$	{124, 1245, 1568, 168, 2567, 267, 4578, 478}
83:5	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{85}e^{12}, \frac{2}{47}\sqrt{85}e^{34}, \frac{2}{47}\sqrt{10}e^{13} + \frac{2}{47}\sqrt{10}e^{24}$	$(\frac{11}{47}, -\frac{10}{47}, -\frac{10}{47}, \frac{11}{47}, \frac{5}{47}, \frac{1}{47}, \frac{1}{47}, \frac{1}{47})$ $+ \frac{2}{47}\sqrt{105}e^1 \otimes e_7 + \frac{2}{47}\sqrt{105}e^4 \otimes e_6$	{123458, 12348, 23567, 2367}
83:5	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{39}e^{12}, \frac{2}{17}\sqrt{39}e^{34}, \frac{1}{17}\sqrt{78}e^{13} + \frac{2}{17}\sqrt{26}e^{24}$	$(\frac{8}{17}, \frac{1}{17}, -\frac{6}{17}, \frac{1}{17}, \frac{3}{17}, \frac{9}{17}, -\frac{5}{17}, \frac{2}{17})$ $+ \frac{2}{17}\sqrt{91}e^1 \otimes e_7$	{13456, 1346, 1568, 168, 3578, 378, 457, 47}
83:5	$0, 0, 0, 0, 0, \frac{10}{137}e^{12}, \frac{10}{137}e^{34}, \frac{5}{137}\sqrt{2}e^{13} + \frac{2}{137}\sqrt{19}e^{24}$	$(-\frac{1}{137}, -\frac{1}{137}, -\frac{1}{137}, -\frac{1}{137}, \frac{11}{137}, -\frac{2}{137}, -\frac{2}{137}, -\frac{2}{137})$ $+ \frac{3}{137}\sqrt{14}e^1 \otimes e_7 + \frac{3}{137}\sqrt{14}e^3 \otimes e_6$	{1568, 168}
83:5	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{6}e^{12}, \frac{8}{73}\sqrt{15}e^{34}, \frac{8}{73}\sqrt{2}e^{13} + \frac{8}{73}\sqrt{3}e^{24}$	$(\frac{14}{73}, -\frac{18}{73}, -\frac{4}{73}, \frac{28}{73}, -\frac{18}{73}, -\frac{4}{73}, \frac{24}{73}, \frac{10}{73})$ $+ \frac{24}{73}\sqrt{3}e^1 \otimes e_5 + \frac{8}{73}\sqrt{37}e^4 \otimes e_6$	{1247, 16, 2568, 4578}
83:5	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{30}e^{12}, \frac{4}{41}\sqrt{10}e^{34}, \frac{1}{41}\sqrt{190}e^{13} + \frac{6}{41}\sqrt{5}e^{24}$	$(-\frac{5}{82}, -\frac{1}{82}, \frac{7}{41}, \frac{5}{41}, -\frac{25}{82}, -\frac{3}{41}, \frac{12}{41}, \frac{9}{82})$ $+ \frac{1}{41}\sqrt{330}e^1 \otimes e_5 + \frac{1}{41}\sqrt{410}e^3 \otimes e_6$	{1237, 168, 256, 3578}
83:5	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{6}e^{12}, \frac{8}{73}\sqrt{15}e^{34}, \frac{8}{73}\sqrt{2}e^{13} + \frac{8}{73}\sqrt{3}e^{24}$	$(\frac{14}{73}, \frac{19}{73}, -\frac{4}{73}, -\frac{9}{73}, -\frac{18}{73}, \frac{33}{73}, -\frac{13}{73}, \frac{10}{73})$ $+ \frac{24}{73}\sqrt{3}e^1 \otimes e_5 + \frac{8}{73}\sqrt{37}e^2 \otimes e_7$	{23456, 2568, 357, 4578}
83:5	$0, 0, 0, 0, 0, \frac{1}{112}\sqrt{11782}e^{12}, \frac{1}{112}\sqrt{3562}e^{34},$ $\frac{1}{112}\sqrt{2329}e^{13} + \frac{1}{112}\sqrt{2329}e^{24}$	$(-\frac{25}{224}, -\frac{25}{224}, \frac{5}{32}, \frac{5}{32}, 1, -\frac{25}{112}, \frac{5}{16}, \frac{5}{112})$ $+ \frac{3}{56}\sqrt{685}e^5 \otimes e_6$	{123458, 125, 13678, 1467, 345, 58}
83:5	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{3}e^{34}, \frac{1}{3}\sqrt{6}e^{13} + \frac{1}{3}\sqrt{6}e^{24}$	$(0, 0, 0, 0, 1, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_8$	{1234567, 12678, 135, 148, 567}
83:5	$0, 0, 0, 0, 0, \frac{8}{467}\sqrt{913}e^{12}, \frac{2}{467}\sqrt{9877}e^{34}, \frac{2}{467}\sqrt{2573}e^{13} + \frac{4}{467}\sqrt{1909}e^{24}$	$(\frac{89}{467}, -\frac{34}{467}, -\frac{100}{467}, \frac{23}{467}, \frac{221}{467}, \frac{55}{467}, -\frac{77}{467}, -\frac{11}{467})$ $+ \frac{2}{467}\sqrt{20418}e^1 \otimes e_7 + \frac{6}{467}\sqrt{1577}e^5 \otimes e_6$	{1346, 168, 3578, 457}
83:5	$0, 0, 0, 0, 0, \frac{16}{451}\sqrt{479}e^{12}, \frac{2}{451}\sqrt{1437}e^{34},$ $\frac{5}{451}\sqrt{4790}e^{13} + \frac{2}{451}\sqrt{13891}e^{24}$	$(\frac{18}{41}, \frac{15}{451}, -\frac{46}{451}, \frac{137}{451}, -\frac{281}{451}, \frac{213}{451}, \frac{91}{451}, \frac{152}{451})$ $+ \frac{2}{451}\sqrt{87657}e^1 \otimes e_5$	{1237, 12478, 1346, 168, 234568, 256, 3578, 457}
83:6	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{5}e^{14} - \frac{1}{8}\sqrt{5}e^{23},$ $\frac{1}{8}\sqrt{5}e^{13} + \frac{1}{8}\sqrt{5}e^{24}$	$(-\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, 1, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^5 \otimes e_6$	{1234578, 125, 1368, 345, 578, 1234578, 125, 1368, 345, 578}
83:6	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{5}e^{14} + \frac{1}{8}\sqrt{5}e^{23},$ $\frac{1}{8}\sqrt{5}e^{13} + \frac{1}{8}\sqrt{5}e^{24}$	$(-\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, 1, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{130}e^5 \otimes e_6$	{1234578, 125, 1368, 345, 578, 1234578, 125, 1368, 345, 578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:6	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{1938e^{12}}, \frac{1}{65}\sqrt{1938e^{14}} - \frac{2}{65}\sqrt{285e^{23}},$ $\frac{1}{65}\sqrt{1938e^{13}} + \frac{2}{65}\sqrt{285e^{24}}$	$(\frac{14}{65}, \frac{14}{65}, \frac{4}{65}, \frac{4}{65}, -\frac{43}{65}, \frac{28}{65}, \frac{18}{65}, \frac{18}{65})$ $+ \frac{18}{65}\sqrt{19e^1} \otimes e_5$	{1237, 1346, 1678, 2345678, 256, 358, 1237, 1346, 1678, 2345678, 256, 358}
83:6	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{1938e^{12}}, \frac{1}{65}\sqrt{1938e^{14}} + \frac{2}{65}\sqrt{285e^{23}},$ $\frac{1}{65}\sqrt{1938e^{13}} + \frac{2}{65}\sqrt{285e^{24}}$	$(\frac{14}{65}, \frac{14}{65}, \frac{4}{65}, \frac{4}{65}, -\frac{43}{65}, \frac{28}{65}, \frac{18}{65}, \frac{18}{65})$ $+ \frac{18}{65}\sqrt{19e^1} \otimes e_5$	{1237, 1346, 1678, 2345678, 256, 358, 1237, 1346, 1678, 2345678, 256, 358}
83:6	$0, 0, 0, 0, 0, \frac{16}{97}\sqrt{5e^{12}}, \frac{16}{97}\sqrt{5e^{14}} - \frac{8}{97}\sqrt{10e^{23}},$ $\frac{8}{97}\sqrt{10e^{13}} + \frac{16}{97}\sqrt{5e^{24}}$	$(-\frac{12}{97}, -\frac{12}{97}, \frac{40}{97}, \frac{40}{97}, -\frac{24}{97}, -\frac{24}{97}, \frac{28}{97}, \frac{28}{97})$ $+ \frac{8}{97}\sqrt{74e^3} \otimes e_5 + \frac{8}{97}\sqrt{94e^4} \otimes e_6$	{1234, 1367, 3478, 1234, 1367, 3478}
83:6	$0, 0, 0, 0, 0, \frac{16}{97}\sqrt{5e^{12}}, \frac{16}{97}\sqrt{5e^{14}} + \frac{8}{97}\sqrt{10e^{23}},$ $\frac{8}{97}\sqrt{10e^{13}} + \frac{16}{97}\sqrt{5e^{24}}$	$(-\frac{12}{97}, -\frac{12}{97}, \frac{40}{97}, \frac{40}{97}, -\frac{24}{97}, -\frac{24}{97}, \frac{28}{97}, \frac{28}{97})$ $+ \frac{8}{97}\sqrt{74e^3} \otimes e_5 + \frac{8}{97}\sqrt{94e^4} \otimes e_6$	{1234, 1367, 3478, 1234, 1367, 3478}
83:6	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{1938e^{12}}, \frac{2}{65}\sqrt{285e^{14}} - \frac{1}{65}\sqrt{1938e^{23}},$ $\frac{1}{65}\sqrt{1938e^{13}} + \frac{2}{65}\sqrt{285e^{24}}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{31}{65}, \frac{31}{65}, \frac{11}{65}, -\frac{2}{5}, \frac{18}{65}, \frac{18}{65})$ $+ \frac{18}{65}\sqrt{19e^3} \otimes e_6$	{123, 1235, 1568, 168, 3578, 378, 123, 1235, 1568, 168, 3578, 378}
83:6	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{1938e^{12}}, \frac{2}{65}\sqrt{285e^{14}} + \frac{1}{65}\sqrt{1938e^{23}},$ $\frac{1}{65}\sqrt{1938e^{13}} + \frac{2}{65}\sqrt{285e^{24}}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{31}{65}, \frac{31}{65}, \frac{11}{65}, -\frac{2}{5}, \frac{18}{65}, \frac{18}{65})$ $+ \frac{18}{65}\sqrt{19e^3} \otimes e_6$	{123, 1235, 1568, 168, 3578, 378, 123, 1235, 1568, 168, 3578, 378}
83:6	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{195e^{12}}, \frac{1}{32}\sqrt{195e^{14}} - \frac{1}{64}\sqrt{2665e^{23}},$ $\frac{1}{64}\sqrt{2665e^{13}} + \frac{1}{32}\sqrt{195e^{24}}$	$(\frac{5}{128}, \frac{5}{128}, \frac{23}{64}, \frac{23}{64}, -\frac{21}{32}, \frac{5}{64}, \frac{51}{128}, \frac{51}{128})$ $+ \frac{1}{64}\sqrt{6890e^3} \otimes e_5$	{1236, 1245678, 1347, 158, 3678, 456, 1236, 1245678, 1347, 158, 3678, 456}
83:6	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{195e^{12}}, \frac{1}{32}\sqrt{195e^{14}} + \frac{1}{64}\sqrt{2665e^{23}},$ $\frac{1}{64}\sqrt{2665e^{13}} + \frac{1}{32}\sqrt{195e^{24}}$	$(\frac{5}{128}, \frac{5}{128}, \frac{23}{64}, \frac{23}{64}, -\frac{21}{32}, \frac{5}{64}, \frac{51}{128}, \frac{51}{128})$ $+ \frac{1}{64}\sqrt{6890e^3} \otimes e_5$	{1236, 1245678, 1347, 158, 3678, 456, 1236, 1245678, 1347, 158, 3678, 456}
83:6	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{195e^{12}}, \frac{1}{64}\sqrt{2665e^{14}} - \frac{1}{64}\sqrt{2665e^{23}},$ $\frac{1}{32}\sqrt{195e^{13}} + \frac{1}{32}\sqrt{195e^{24}}$	$(\frac{5}{128}, \frac{5}{128}, -\frac{7}{128}, -\frac{7}{128}, 1, \frac{5}{64}, -\frac{1}{64}, -\frac{1}{64})$ $+ \frac{1}{64}\sqrt{6890e^5} \otimes e_7$	{1234568, 1267, 1378, 145, 3467, 568, 1234568, 1267, 1378, 145, 3467, 568}
83:6	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{195e^{12}}, \frac{1}{64}\sqrt{2665e^{14}} + \frac{1}{64}\sqrt{2665e^{23}},$ $\frac{1}{32}\sqrt{195e^{13}} + \frac{1}{32}\sqrt{195e^{24}}$	$(\frac{5}{128}, \frac{5}{128}, -\frac{7}{128}, -\frac{7}{128}, 1, \frac{5}{64}, -\frac{1}{64}, -\frac{1}{64})$ $+ \frac{1}{64}\sqrt{6890e^5} \otimes e_7$	{1234568, 1267, 1378, 145, 3467, 568, 1234568, 1267, 1378, 145, 3467, 568}
83:7	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6e^{14}} - \frac{1}{3}\sqrt{6e^{23}}, \frac{1}{6}\sqrt{6e^{13}} + \frac{1}{6}\sqrt{6e^{24}},$ $-\frac{1}{6}\sqrt{6e^{12}} + \frac{1}{6}\sqrt{6e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15e^5} \otimes e_6$	{1234578, 1268, 145, 578, 1234578, 1268, 145, 578}
83:7	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6e^{14}} + \frac{1}{3}\sqrt{6e^{23}}, \frac{1}{6}\sqrt{6e^{13}} + \frac{1}{6}\sqrt{6e^{24}},$ $\frac{1}{6}\sqrt{6e^{12}} + \frac{1}{6}\sqrt{6e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15e^5} \otimes e_6$	{1234578, 1268, 1367, 145, 578, 1234578, 1268, 1367, 145, 578}
83:7	$0, 0, 0, 0, 0, \frac{11}{145}\sqrt{82e^{14}} - \frac{22}{145}\sqrt{10e^{23}}, \frac{11}{145}\sqrt{82e^{13}} + \frac{22}{145}\sqrt{10e^{24}},$ $-\frac{11}{145}\sqrt{82e^{12}} + \frac{22}{145}\sqrt{10e^{34}}$	$(\frac{22}{145}, \frac{22}{145}, \frac{22}{145}, \frac{22}{145}, -\frac{99}{145}, \frac{44}{145}, \frac{44}{145}, \frac{44}{145})$ $+ \frac{22}{145}\sqrt{61e^1} \otimes e_5$	{1236, 1678, 2345678, 258, 1236, 1678, 2345678, 258}
83:7	$0, 0, 0, 0, 0, \frac{11}{145}\sqrt{82e^{14}} + \frac{22}{145}\sqrt{10e^{23}}, \frac{11}{145}\sqrt{82e^{13}} + \frac{22}{145}\sqrt{10e^{24}},$ $\frac{11}{145}\sqrt{82e^{12}} + \frac{22}{145}\sqrt{10e^{34}}$	$(\frac{22}{145}, \frac{22}{145}, \frac{22}{145}, \frac{22}{145}, -\frac{99}{145}, \frac{44}{145}, \frac{44}{145}, \frac{44}{145})$ $+ \frac{22}{145}\sqrt{61e^1} \otimes e_5$	{1236, 1247, 1678, 2345678, 258, 357, 1236, 1247, 1678, 2345678, 258, 357}
83:8	$0, 0, 0, 0, 0, \frac{1}{929}\sqrt{127490e^{12}}, \frac{2}{929}\sqrt{1463e^{13}}, \frac{4}{929}\sqrt{3553e^{45}}$	$(\frac{21}{929}, \frac{42}{929}, -\frac{188}{929}, -\frac{53}{929}, \frac{272}{929}, \frac{63}{929}, -\frac{167}{929}, \frac{219}{929})$ $+ \frac{1}{929}\sqrt{107426e^1} \otimes e_3 + \frac{44}{929}\sqrt{57e^2} \otimes e_7 + \frac{5}{929}\sqrt{5434e^5} \otimes e_6$	{14678, 167, 3457, 3578}
83:8	$0, 0, 0, 0, 0, \frac{2}{1821}\sqrt{172898e^{12}}, \frac{4}{1821}\sqrt{9889e^{13}}, \frac{8}{1821}\sqrt{6061e^{45}}$	$(\frac{114}{607}, \frac{370}{1821}, -\frac{296}{1821}, -\frac{151}{607}, \frac{185}{1821}, \frac{712}{1821}, \frac{46}{1821}, -\frac{268}{1821})$ $+ \frac{2}{1821}\sqrt{188210e^1} \otimes e_3 + \frac{2}{1821}\sqrt{236698e^2} \otimes e_8 + \frac{638}{1821}e^5 \otimes e_4$	{1468, 1568, 348, 358}
83:8	$0, 0, 0, 0, 0, \frac{6}{377}\sqrt{790e^{12}}, \frac{4}{377}\sqrt{553e^{13}}, \frac{4}{377}\sqrt{237e^{45}}$	$(\frac{42}{377}, \frac{84}{377}, -\frac{4}{13}, -\frac{55}{377}, \frac{103}{377}, \frac{126}{377}, -\frac{74}{377}, \frac{48}{377})$ $+ \frac{158}{377}e^5 \otimes e_4 + \frac{2}{377}\sqrt{10902e^2} \otimes e_7 + \frac{4}{377}\sqrt{2449e^1} \otimes e_3$	{14678, 15678, 3478, 3578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:8	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{107}e^{12}, \frac{4}{231}\sqrt{321}e^{13}, \frac{2}{231}\sqrt{8239}e^{45}$	$(-\frac{8}{77}, -\frac{12}{77}, \frac{19}{77}, \frac{2}{3}, -\frac{32}{231}, -\frac{20}{77}, \frac{1}{7}, \frac{122}{231})$ $+\frac{2}{231}\sqrt{19902}e^4 \otimes e_6$	{123457, 123478, 1245, 1248, 135678, 1367, 1568, 16, 23568, 236, 25678, 267, 345, 348, 457, 478}
83:8	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{1529}e^{12}, \frac{1}{181}\sqrt{10842}e^{13}, \frac{1}{181}\sqrt{2085}e^{45}$	$(\frac{78}{181}, -\frac{61}{181}, -\frac{33}{362}, \frac{169}{362}, -\frac{109}{362}, \frac{17}{181}, \frac{123}{362}, \frac{30}{181})$ $+\frac{139}{181}e^4 \otimes e_5 + \frac{1}{181}\sqrt{24742}e^1 \otimes e_2$	{1348, 1358, 1478, 1578, 23478, 23578, 248, 258}
83:8	$0, 0, 0, 0, 0, \frac{26}{129}\sqrt{3}e^{12}, \frac{4}{129}\sqrt{39}e^{13}, \frac{2}{129}\sqrt{559}e^{45}$	$(\frac{8}{43}, -\frac{8}{43}, \frac{1}{43}, \frac{26}{129}, -\frac{28}{129}, 0, \frac{9}{43}, -\frac{2}{129})$ $+\frac{2}{43}\sqrt{78}e^4 \otimes e_6 + \frac{4}{129}\sqrt{195}e^1 \otimes e_8$	{12345, 12457, 136, 167, 235678, 2568, 3478, 48}
83:8	$0, 0, 0, 0, 0, \frac{1}{528}\sqrt{15826}e^{12}, \frac{1}{528}\sqrt{4182}e^{13}, \frac{1}{528}\sqrt{11234}e^{45}$	$(\frac{5}{176}, \frac{65}{1056}, -\frac{13}{264}, -\frac{97}{528}, \frac{59}{352}, \frac{95}{1056}, -\frac{1}{48}, -\frac{17}{1056})$ $+\frac{1}{176}\sqrt{1066}e^1 \otimes e_3 + \frac{1}{528}\sqrt{15211}e^2 \otimes e_8 + \frac{1}{528}\sqrt{15211}e^5 \otimes e_6$	{1245, 1468, 236, 358}
83:8	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{130}e^{12}, \frac{1}{26}\sqrt{130}e^{13}, \frac{1}{13}\sqrt{5}e^{45}$	$(-\frac{5}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{2}{13})$ $+\frac{1}{26}\sqrt{230}e^2 \otimes e_7 - \frac{1}{26}\sqrt{230}e^3 \otimes e_6$	{123, 12345, 12348, 14567, 14678, 167, 2456, 2468, 26}
83:8	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{130}e^{12}, \frac{1}{26}\sqrt{130}e^{13}, \frac{1}{13}\sqrt{5}e^{45}$	$(-\frac{5}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{2}{13})$ $+\frac{1}{26}\sqrt{230}e^2 \otimes e_7 + \frac{1}{26}\sqrt{230}e^3 \otimes e_6$	{123, 12345, 12348, 14567, 14678, 167, 2456, 2468, 26}
83:8	$0, 0, 0, 0, 0, \frac{9}{169}\sqrt{107}e^{12}, \frac{2}{169}\sqrt{321}e^{13}, \frac{1}{169}\sqrt{8239}e^{45}$	$(-\frac{12}{169}, \frac{75}{169}, \frac{57}{338}, \frac{75}{338}, -\frac{139}{338}, \frac{63}{169}, \frac{33}{338}, -\frac{32}{169})$ $+\frac{107}{169}e^4 \otimes e_5 + \frac{1}{169}\sqrt{19902}e^2 \otimes e_8$	{134678, 135678, 1468, 1568, 348, 358, 478, 578}
83:8	$0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1529}e^{12}, \frac{2}{223}\sqrt{10842}e^{13}, \frac{2}{223}\sqrt{2085}e^{45}$	$(\frac{156}{223}, -\frac{122}{223}, -\frac{33}{223}, \frac{30}{223}, \frac{30}{223}, \frac{34}{223}, \frac{123}{223}, \frac{60}{223})$ $+\frac{2}{223}\sqrt{24742}e^1 \otimes e_2$	{13, 1345, 1348, 1457, 1478, 17, 2, 23457, 23478, 237, 245, 248}
83:8	$0, 0, 0, 0, 0, \frac{10}{213}\sqrt{51}e^{12}, \frac{10}{213}\sqrt{51}e^{13}, \frac{1}{213}\sqrt{12070}e^{45}$	$(-\frac{11}{71}, \frac{30}{71}, -\frac{1}{71}, \frac{49}{213}, -\frac{44}{213}, \frac{19}{71}, -\frac{12}{71}, \frac{5}{213})$ $+\frac{1}{213}\sqrt{15810}e^2 \otimes e_8 + \frac{1}{213}\sqrt{15810}e^4 \otimes e_7$	{12345, 127, 13468, 15678, 2367, 2456, 3578, 48}
83:8	$0, 0, 0, 0, 0, \frac{3}{149}\sqrt{790}e^{12}, \frac{2}{149}\sqrt{553}e^{13}, \frac{2}{149}\sqrt{237}e^{45}$	$(\frac{21}{149}, \frac{42}{149}, -\frac{58}{149}, \frac{12}{149}, \frac{12}{149}, \frac{63}{149}, -\frac{37}{149}, \frac{24}{149})$ $+\frac{1}{149}\sqrt{10902}e^2 \otimes e_7 + \frac{2}{149}\sqrt{2449}e^1 \otimes e_3$	{14567, 14678, 167, 3457, 3478, 37}
83:8	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{107}e^{12}, \frac{4}{231}\sqrt{321}e^{13}, \frac{2}{231}\sqrt{8239}e^{45}$	$(-\frac{8}{77}, \frac{50}{77}, \frac{19}{77}, -\frac{32}{231}, -\frac{32}{231}, \frac{6}{11}, \frac{1}{7}, -\frac{64}{231})$ $+\frac{2}{231}\sqrt{19902}e^2 \otimes e_8$	{12, 123457, 1237, 1245, 134678, 1468, 23456, 236, 24567, 267, 348, 478}
83:8	$0, 0, 0, 0, 0, \frac{20}{281}\sqrt{43}e^{12}, \frac{4}{281}\sqrt{645}e^{13}, \frac{4}{281}\sqrt{1290}e^{45}$	$(\frac{60}{281}, -\frac{112}{281}, \frac{9}{281}, \frac{120}{281}, -\frac{21}{281}, -\frac{52}{281}, \frac{69}{281}, \frac{99}{281})$ $+\frac{2}{281}\sqrt{12126}e^4 \otimes e_6 + \frac{2}{281}\sqrt{8686}e^1 \otimes e_2$	{13568, 136, 15678, 167, 235678, 2367, 2568, 26}
83:8	$0, 0, 0, 0, 0, \frac{26}{697}\sqrt{46}e^{12}, \frac{1}{697}\sqrt{128570}e^{13}, \frac{46}{697}\sqrt{39}e^{45}$	$(-\frac{179}{697}, \frac{319}{697}, \frac{199}{697}, -\frac{50}{697}, -\frac{50}{697}, \frac{140}{697}, \frac{20}{697}, -\frac{100}{697})$ $+\frac{1}{697}\sqrt{169234}e^2 \otimes e_7 + \frac{2}{697}\sqrt{48737}e^3 \otimes e_8$	{123, 12345, 14678, 2468, 3457, 37}
83:8	$0, 0, 0, 0, 0, \frac{30}{523}\sqrt{22}e^{12}, \frac{30}{523}\sqrt{22}e^{13}, \frac{6}{523}\sqrt{770}e^{45}$	$(-\frac{128}{523}, \frac{107}{523}, \frac{125}{523}, -\frac{74}{523}, \frac{89}{523}, -\frac{21}{523}, -\frac{3}{523}, \frac{15}{523})$ $+\frac{10}{523}\sqrt{319}e^2 \otimes e_7 + \frac{2}{523}\sqrt{8965}e^3 \otimes e_8 + \frac{2}{523}\sqrt{8965}e^5 \otimes e_6$	{12345, 14678, 2468, 3457}
83:8	$0, 0, 0, 0, 0, \frac{10}{213}\sqrt{51}e^{12}, \frac{10}{213}\sqrt{51}e^{13}, \frac{1}{213}\sqrt{12070}e^{45}$	$(-\frac{11}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{49}{213}, \frac{49}{213}, -\frac{12}{71}, -\frac{12}{71}, \frac{98}{213})$ $+\frac{1}{213}\sqrt{15810}e^4 \otimes e_6 + \frac{1}{213}\sqrt{15810}e^5 \otimes e_7$	{12345, 12478, 167, 2367, 2568, 45}
83:8	$0, 0, 0, 0, 0, \frac{20}{1419}\sqrt{589}e^{12}, \frac{40}{1419}\sqrt{38}e^{13}, \frac{4}{1419}\sqrt{17005}e^{45}$	$(\frac{32}{473}, \frac{355}{1419}, -\frac{284}{1419}, -\frac{217}{1419}, \frac{64}{473}, \frac{41}{129}, -\frac{188}{1419}, -\frac{25}{1419})$ $+\frac{10}{1419}\sqrt{2622}e^1 \otimes e_3 + \frac{2}{1419}\sqrt{77710}e^5 \otimes e_7 + \frac{4}{1419}\sqrt{24890}e^2 \otimes e_8$	{127, 14678, 2367, 3478}
83:8	$0, 0, 0, 0, 0, \frac{6}{179}\sqrt{203}e^{12}, \frac{6}{179}\sqrt{203}e^{13}, \frac{12}{179}\sqrt{14}e^{45}$	$(-\frac{34}{179}, \frac{87}{179}, -\frac{5}{179}, \frac{79}{179}, -\frac{47}{179}, \frac{53}{179}, -\frac{39}{179}, \frac{32}{179})$ $+\frac{126}{179}e^4 \otimes e_5 + \frac{12}{179}\sqrt{161}e^2 \otimes e_7$	{12348, 12358, 14678, 15678, 2468, 2568, 3478, 3578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:8	$0, 0, 0, 0, 0, \frac{1}{204}\sqrt{2091}e^{12}, \frac{1}{136}\sqrt{82}e^{13}, \frac{1}{102}\sqrt{697}e^{45}$	$(-\frac{25}{136}, \frac{49}{272}, \frac{9}{136}, \frac{79}{816}, -\frac{7}{408}, -\frac{1}{272}, -\frac{2}{17}, \frac{65}{816})$ $+ \frac{1}{136}\sqrt{1271}e^2 \otimes e_8 + \frac{1}{136}\sqrt{1271}e^4 \otimes e_6 + \frac{1}{408}\sqrt{7626}e^5 \otimes e_7$	{12345, 13568, 2367, 3478}
83:8	$0, 0, 0, 0, 0, \frac{3}{14}\sqrt{3}e^{12}, \frac{3}{14}\sqrt{3}e^{13}, \frac{3}{49}\sqrt{30}e^{45}$	$(\frac{11}{98}, \frac{51}{196}, -\frac{25}{196}, -\frac{4}{49}, -\frac{4}{49}, \frac{73}{196}, -\frac{3}{196}, -\frac{8}{49})$ $+ \frac{18}{49}\sqrt{2}e^1 \otimes e_8 + \frac{3}{49}\sqrt{57}e^2 \otimes e_7$	{123, 12345, 14567, 167, 2468, 3478}
83:8	$0, 0, 0, 0, 0, \frac{42}{223}\sqrt{3}e^{12}, \frac{42}{223}\sqrt{3}e^{13}, \frac{12}{223}\sqrt{30}e^{45}$	$(\frac{22}{223}, \frac{51}{223}, -\frac{25}{223}, -\frac{43}{223}, \frac{11}{223}, \frac{73}{223}, -\frac{3}{223}, -\frac{32}{223})$ $+ \frac{12}{223}\sqrt{57}e^2 \otimes e_7 + \frac{54}{223}e^5 \otimes e_4 + \frac{72}{223}\sqrt{2}e^1 \otimes e_8$	{2468, 2568, 3478, 3578}
83:8	$0, 0, 0, 0, 0, \frac{5}{87}\sqrt{10}e^{12}, \frac{2}{87}\sqrt{30}e^{13}, \frac{2}{87}\sqrt{55}e^{45}$	$(\frac{1}{29}, \frac{4}{87}, -\frac{4}{87}, -\frac{14}{87}, \frac{4}{29}, \frac{7}{87}, -\frac{1}{87}, -\frac{2}{87})$ $+ \frac{1}{87}\sqrt{210}e^2 \otimes e_7 + \frac{2}{87}\sqrt{65}e^5 \otimes e_6 + \frac{8}{87}\sqrt{5}e^1 \otimes e_8$	{12345, 167, 2468, 3578}
83:8	$0, 0, 0, 0, 0, \frac{1}{30}\sqrt{345}e^{12}, \frac{1}{30}\sqrt{345}e^{13}, \frac{1}{15}\sqrt{115}e^{45}$	$(\frac{1}{2}, -\frac{1}{20}, -\frac{1}{20}, -\frac{2}{15}, -\frac{2}{15}, \frac{9}{20}, \frac{9}{20}, -\frac{4}{15})$ $+ \frac{2}{15}\sqrt{69}e^1 \otimes e_8$	{123, 12345, 12457, 127, 14567, 167, 234678, 2468, 48}
83:8	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{3}e^{12}, \frac{2}{33}\sqrt{3}e^{13}, \frac{1}{33}\sqrt{22}e^{45}$	$(\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{1}{33}, \frac{1}{33}, 0, 0, \frac{2}{33})$ $+ \frac{1}{11}\sqrt{2}e^4 \otimes e_6 + \frac{1}{11}\sqrt{2}e^5 \otimes e_7 + \frac{2}{33}\sqrt{6}e^1 \otimes e_8$	{12345, 167, 2568}
83:8	$0, 0, 0, 0, 0, \frac{40}{1419}\sqrt{38}e^{12}, \frac{20}{1419}\sqrt{589}e^{13}, \frac{4}{1419}\sqrt{17005}e^{45}$	$(\frac{32}{473}, -\frac{284}{1419}, -\frac{169}{1419}, \frac{64}{473}, \frac{307}{1419}, -\frac{188}{1419}, -\frac{73}{1419}, \frac{499}{1419})$ $+ \frac{10}{1419}\sqrt{2622}e^1 \otimes e_2 + \frac{2}{1419}\sqrt{77710}e^4 \otimes e_6 + \frac{4}{1419}\sqrt{24890}e^5 \otimes e_7$	{13568, 167, 2367, 2568}
83:8	$0, 0, 0, 0, 0, \frac{1}{697}\sqrt{128570}e^{12}, \frac{26}{697}\sqrt{46}e^{13}, \frac{46}{697}\sqrt{39}e^{45}$	$(-\frac{179}{697}, \frac{156}{697}, \frac{36}{697}, \frac{276}{697}, -\frac{50}{697}, -\frac{23}{697}, -\frac{143}{697}, \frac{226}{697})$ $+ \frac{1}{697}\sqrt{169234}e^2 \otimes e_7 + \frac{2}{697}\sqrt{48737}e^4 \otimes e_6$	{12345, 12348, 15678, 167, 2568, 26, 3457, 3478}
83:8	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{129}e^{12}, \frac{2}{55}\sqrt{129}e^{13}, \frac{4}{55}\sqrt{43}e^{45}$	$(\frac{6}{55}, \frac{9}{55}, \frac{9}{55}, \frac{51}{55}, -\frac{7}{11}, \frac{3}{11}, \frac{3}{11}, \frac{16}{55})$ $+ \frac{86}{55}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 14678, 15678, 234678, 235678, 2468, 2568, 48, 58}
83:8	$0, 0, 0, 0, 0, \frac{10}{69}\sqrt{7}e^{12}, \frac{2}{69}\sqrt{42}e^{13}, \frac{2}{69}\sqrt{161}e^{45}$	$(-\frac{4}{23}, \frac{13}{69}, \frac{13}{69}, \frac{13}{23}, -\frac{16}{69}, \frac{1}{69}, \frac{1}{69}, -\frac{1}{69})$ $+ \frac{2}{69}\sqrt{217}e^2 \otimes e_8 + \frac{2}{69}\sqrt{217}e^4 \otimes e_6$	{123457, 1245, 135678, 1568, 236, 267, 348, 478}
83:8	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{345}e^{12}, \frac{2}{83}\sqrt{345}e^{13}, \frac{4}{83}\sqrt{115}e^{45}$	$(\frac{30}{83}, -\frac{3}{83}, -\frac{3}{83}, \frac{15}{83}, -\frac{31}{83}, \frac{27}{83}, \frac{27}{83}, -\frac{16}{83})$ $+ \frac{46}{83}e^4 \otimes e_5 + \frac{8}{83}\sqrt{69}e^1 \otimes e_8$	{234678, 235678, 2468, 2568, 48, 58}
83:8	$0, 0, 0, 0, 0, \frac{3}{58}\sqrt{203}e^{12}, \frac{3}{58}\sqrt{203}e^{13}, \frac{3}{29}\sqrt{14}e^{45}$	$(-\frac{17}{58}, \frac{3}{4}, -\frac{5}{116}, \frac{4}{29}, \frac{4}{29}, \frac{53}{116}, -\frac{39}{116}, \frac{8}{29})$ $+ \frac{3}{29}\sqrt{161}e^2 \otimes e_7$	{123, 12345, 12348, 14567, 14678, 167, 2456, 2468, 26, 3457, 3478, 37}
83:8	$0, 0, 0, 0, 0, \frac{52}{1693}\sqrt{46}e^{12}, \frac{2}{1693}\sqrt{128570}e^{13}, \frac{92}{1693}\sqrt{39}e^{45}$	$(-\frac{358}{1693}, \frac{638}{1693}, \frac{398}{1693}, -\frac{399}{1693}, \frac{199}{1693}, \frac{280}{1693}, \frac{40}{1693}, -\frac{200}{1693})$ $+ \frac{2}{1693}\sqrt{169234}e^2 \otimes e_7 + \frac{4}{1693}\sqrt{48737}e^3 \otimes e_8 + \frac{598}{1693}e^5 \otimes e_4$	{14678, 15678, 2468, 2568}
83:8	$0, 0, 0, 0, 0, \frac{1}{751}\sqrt{172898}e^{12}, \frac{2}{751}\sqrt{9889}e^{13}, \frac{4}{751}\sqrt{6061}e^{45}$	$(\frac{171}{751}, \frac{185}{751}, -\frac{148}{751}, -\frac{67}{751}, -\frac{67}{751}, \frac{356}{751}, \frac{23}{751}, -\frac{134}{751})$ $+ \frac{1}{751}\sqrt{188210}e^1 \otimes e_3 + \frac{1}{751}\sqrt{236698}e^2 \otimes e_8$	{12, 1245, 1468, 23456, 236, 348}
83:8	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{9889}e^{12}, \frac{1}{751}\sqrt{172898}e^{13}, \frac{4}{751}\sqrt{6061}e^{45}$	$(\frac{171}{751}, -\frac{148}{751}, -\frac{186}{751}, \frac{304}{751}, -\frac{67}{751}, \frac{23}{751}, -\frac{15}{751}, \frac{237}{751})$ $+ \frac{1}{751}\sqrt{188210}e^1 \otimes e_2 + \frac{1}{751}\sqrt{236698}e^4 \otimes e_7$	{1345, 1348, 1578, 17, 23578, 237, 245, 248}
83:8	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{130}e^{12}, \frac{1}{31}\sqrt{130}e^{13}, \frac{2}{31}\sqrt{5}e^{45}$	$(-\frac{10}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{3}{31}, \frac{7}{31}, -\frac{2}{31}, -\frac{2}{31}, \frac{4}{31})$ $+ \frac{10}{31}e^5 \otimes e_4 + \frac{1}{31}\sqrt{230}e^2 \otimes e_7 + \frac{1}{31}\sqrt{230}e^3 \otimes e_6$	{12348, 12358, 14678, 15678, 2468, 2568}
83:8	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{130}e^{12}, \frac{1}{31}\sqrt{130}e^{13}, \frac{2}{31}\sqrt{5}e^{45}$	$(-\frac{10}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{3}{31}, \frac{7}{31}, -\frac{2}{31}, -\frac{2}{31}, \frac{4}{31})$ $+ \frac{10}{31}e^5 \otimes e_4 + \frac{1}{31}\sqrt{230}e^2 \otimes e_7 - \frac{1}{31}\sqrt{230}e^3 \otimes e_6$	{12348, 12358, 14678, 15678, 2468, 2568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:9	$0, 0, 0, 0, 0, \frac{5}{451}\sqrt{4790}e^{12}, \frac{16}{451}\sqrt{479}e^{13},$ $\frac{2}{451}\sqrt{13891}e^{14} + \frac{2}{451}\sqrt{1437}e^{25}$	$(\frac{256}{451}, -\frac{46}{451}, -\frac{43}{451}, -\frac{223}{451}, \frac{79}{451}, \frac{210}{451}, \frac{213}{451}, \frac{3}{41})$ $+ \frac{2}{451}\sqrt{87657}e^1 \otimes e_4$	{1235, 1257, 136, 167, 234567, 2456, 347, 4}
83:9	$0, 0, 0, 0, 0, \frac{1}{243}\sqrt{1830}e^{12}, \frac{4}{243}\sqrt{105}e^{13}, \frac{2}{243}\sqrt{390}e^{14} + \frac{4}{243}\sqrt{105}e^{25}$	$(\frac{2}{27}, -\frac{2}{81}, -\frac{13}{81}, \frac{1}{81}, \frac{1}{81}, \frac{4}{9}, \frac{7}{81}, -\frac{7}{81})$ $+ \frac{2}{243}\sqrt{705}e^2 \otimes e_7 + \frac{2}{81}\sqrt{55}e^1 \otimes e_4 + \frac{2}{81}\sqrt{55}e^5 \otimes e_6$	{1235, 167}
83:9	$0, 0, 0, 0, 0, \frac{1}{403}\sqrt{31178}e^{12}, \frac{2}{403}\sqrt{7598}e^{13}, \frac{8}{403}\sqrt{262}e^{14} + \frac{2}{403}\sqrt{393}e^{25}$	$(\frac{49}{403}, -\frac{76}{403}, \frac{8}{31}, -\frac{82}{403}, \frac{43}{403}, -\frac{27}{403}, \frac{153}{403}, -\frac{33}{403})$ $+ \frac{1}{403}\sqrt{47946}e^1 \otimes e_4 + \frac{1}{403}\sqrt{47946}e^3 \otimes e_6$	{123, 1567, 246, 3457}
83:9	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{19910}e^{12}, \frac{4}{145}\sqrt{181}e^{13}, \frac{2}{145}\sqrt{362}e^{14} + \frac{4}{145}\sqrt{181}e^{25}$	$(-\frac{16}{145}, \frac{98}{145}, \frac{7}{29}, \frac{31}{145}, -\frac{83}{145}, \frac{82}{145}, \frac{19}{145}, \frac{3}{29})$ $+ \frac{2}{145}\sqrt{10679}e^2 \otimes e_5$	{12, 1237, 13567, 156, 2346, 2467, 345, 457}
83:9	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{12}, \frac{3}{29}\sqrt{13}e^{13}, \frac{1}{29}\sqrt{130}e^{14} + \frac{3}{29}\sqrt{13}e^{25}$	$(\frac{11}{58}, \frac{8}{29}, -\frac{15}{58}, -\frac{5}{58}, -\frac{5}{29}, \frac{27}{58}, -\frac{2}{29}, \frac{3}{29})$ $+ \frac{1}{29}\sqrt{377}e^1 \otimes e_3 + \frac{2}{29}\sqrt{78}e^2 \otimes e_5$	{124, 1456, 236, 35}
83:9	$0, 0, 0, 0, 0, \frac{22}{2639}\sqrt{219}e^{12}, \frac{11}{2639}\sqrt{2134}e^{13},$ $\frac{22}{2639}\sqrt{62}e^{14} + \frac{22}{2639}\sqrt{471}e^{25}$	$(\frac{66}{2639}, -\frac{44}{377}, \frac{132}{2639}, -\frac{55}{2639}, \frac{11}{91}, -\frac{242}{2639}, \frac{198}{2639}, \frac{11}{2639})$ $+ \frac{11}{2639}\sqrt{2006}e^3 \otimes e_8 + \frac{11}{2639}\sqrt{2130}e^5 \otimes e_7 + \frac{55}{2639}\sqrt{30}e^1 \otimes e_4$	{12356, 3467}
83:9	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{6}e^{12}, \frac{1}{29}\sqrt{35}e^{13}, \frac{2}{29}\sqrt{2}e^{14} + \frac{1}{29}\sqrt{35}e^{25}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, -\frac{1}{29}, \frac{3}{29}, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{29}\sqrt{15}e^4 \otimes e_6 + \frac{4}{29}\sqrt{2}e^3 \otimes e_8 + \frac{6}{29}e^5 \otimes e_7$	{124678, 3467}
83:9	$0, 0, 0, 0, 0, \frac{2}{61}\sqrt{10}e^{12}, \frac{4}{61}\sqrt{10}e^{13}, \frac{2}{61}\sqrt{15}e^{14} + \frac{1}{61}\sqrt{210}e^{25}$	$(-\frac{9}{61}, \frac{3}{61}, \frac{7}{61}, \frac{11}{61}, -\frac{1}{61}, -\frac{6}{61}, -\frac{2}{61}, \frac{2}{61})$ $+ \frac{1}{61}\sqrt{230}e^2 \otimes e_7 + \frac{5}{61}\sqrt{6}e^5 \otimes e_6 + \frac{6}{61}\sqrt{5}e^3 \otimes e_8$	{1235, 268}
83:9	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{3}{41}\sqrt{30}e^{13}, \frac{6}{41}\sqrt{5}e^{14} + \frac{4}{41}\sqrt{10}e^{25}$	$(\frac{13}{82}, \frac{7}{41}, -\frac{19}{82}, -\frac{7}{82}, -\frac{4}{41}, \frac{27}{82}, -\frac{3}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{330}e^1 \otimes e_4 + \frac{1}{41}\sqrt{410}e^2 \otimes e_7$	{1235, 167, 2456, 347}
83:9	$0, 0, 0, 0, 0, \frac{8}{73}\sqrt{2}e^{12}, \frac{16}{73}\sqrt{6}e^{13}, \frac{8}{73}\sqrt{3}e^{14} + \frac{8}{73}\sqrt{15}e^{25}$	$(\frac{11}{73}, -\frac{4}{73}, \frac{22}{73}, -\frac{21}{73}, -\frac{6}{73}, \frac{7}{73}, \frac{33}{73}, -\frac{10}{73})$ $+ \frac{24}{73}\sqrt{3}e^1 \otimes e_4 + \frac{8}{73}\sqrt{37}e^3 \otimes e_8$	{12678, 1578, 248, 4568}
83:9	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{14}\sqrt{7}e^{13}, \frac{3}{14}\sqrt{7}e^{14} + \frac{1}{14}\sqrt{21}e^{25}$	$(\frac{3}{28}, \frac{3}{28}, -\frac{11}{28}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{2}{7}, \frac{9}{28})$ $+ \frac{1}{14}\sqrt{91}e^1 \otimes e_3 + \frac{1}{7}\sqrt{21}e^4 \otimes e_7$	{12578, 1678, 2367, 357}
83:9	$0, 0, 0, 0, 0, \frac{5}{451}\sqrt{4790}e^{12}, \frac{16}{451}\sqrt{479}e^{13},$ $\frac{2}{451}\sqrt{13891}e^{14} + \frac{2}{451}\sqrt{1437}e^{25}$	$(-\frac{10}{41}, -\frac{46}{451}, \frac{323}{451}, \frac{13}{41}, \frac{79}{451}, -\frac{156}{451}, \frac{213}{451}, \frac{3}{41})$ $+ \frac{2}{451}\sqrt{87657}e^3 \otimes e_6$	{12348, 1235, 145678, 167, 2456, 268, 347, 3578}
83:9	$0, 0, 0, 0, 0, \frac{4}{19}e^{12}, \frac{1}{19}\sqrt{42}e^{13}, \frac{1}{19}\sqrt{6}e^{14} + \frac{1}{19}\sqrt{42}e^{25}$	$(\frac{2}{19}, -\frac{4}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{3}{19}, -\frac{2}{19}, \frac{6}{19}, -\frac{1}{19})$ $+ \frac{3}{19}\sqrt{6}e^1 \otimes e_4 + \frac{3}{19}\sqrt{6}e^5 \otimes e_6 + \frac{8}{19}e^3 \otimes e_8$	{1235, 136}
83:9	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{6}e^{14} + \frac{1}{3}\sqrt{3}e^{25}$	$(-\frac{1}{3}, 0, \frac{1}{3}, \frac{2}{3}, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_6$	{12347, 124, 13678, 168, 236, 267, 348, 478}
83:9	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{12}, \frac{3}{41}\sqrt{30}e^{13}, \frac{1}{41}\sqrt{190}e^{14} + \frac{4}{41}\sqrt{10}e^{25}$	$(-\frac{10}{41}, \frac{5}{41}, \frac{11}{41}, \frac{11}{41}, -\frac{4}{41}, -\frac{5}{41}, \frac{1}{41}, \frac{1}{41})$ $- \frac{1}{41}\sqrt{330}e^4 \otimes e_7 + \frac{1}{41}\sqrt{410}e^3 \otimes e_8$	{123456, 12678, 134, 1578, 2357, 248, 367, 4568}
83:9	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{12}, \frac{3}{41}\sqrt{30}e^{13}, \frac{1}{41}\sqrt{190}e^{14} + \frac{4}{41}\sqrt{10}e^{25}$	$(-\frac{10}{41}, \frac{5}{41}, \frac{11}{41}, \frac{11}{41}, -\frac{4}{41}, -\frac{5}{41}, \frac{1}{41}, \frac{1}{41})$ $+ \frac{1}{41}\sqrt{330}e^4 \otimes e_7 + \frac{1}{41}\sqrt{410}e^3 \otimes e_8$	{123456, 12678, 134, 1578, 2357, 248, 367, 4568}
83:9	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{6}e^{14} + \frac{1}{3}\sqrt{3}e^{25}$	$(\frac{1}{2}, 0, -\frac{1}{2}, -\frac{1}{6}, \frac{1}{3}, \frac{1}{2}, 0, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_3$	{124, 1258, 1456, 168, 234568, 236, 348, 35}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:9	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{26}e^{12}, \frac{2}{17}\sqrt{39}e^{13}, \frac{1}{17}\sqrt{78}e^{14} + \frac{2}{17}\sqrt{39}e^{25}$	$(-\frac{2}{17}, \frac{1}{17}, \frac{11}{17}, 0, -\frac{3}{17}, -\frac{1}{17}, \frac{9}{17}, -\frac{2}{17})$ $+ \frac{2}{17}\sqrt{91}e^3 \otimes e_8$	{123456, 12678, 134, 1578, 2357, 248, 367, 4568}
83:9	$0, 0, 0, 0, 0, \frac{2}{451}\sqrt{13891}e^{12}, \frac{16}{451}\sqrt{479}e^{13},$ $\frac{5}{451}\sqrt{4790}e^{14} + \frac{2}{451}\sqrt{1437}e^{25}$	$(-\frac{10}{41}, \frac{137}{451}, -\frac{43}{451}, \frac{326}{451}, \frac{79}{451}, \frac{27}{451}, -\frac{153}{451}, \frac{216}{451})$ $+ \frac{2}{451}\sqrt{87657}e^4 \otimes e_7$	{123456, 12678, 134, 1578, 2357, 248, 367, 4568}
83:9	$0, 0, 0, 0, 0, \frac{3}{14}\sqrt{7}e^{12}, \frac{1}{14}\sqrt{21}e^{13}, \frac{1}{14}\sqrt{21}e^{14} + \frac{1}{14}\sqrt{7}e^{25}$	$(\frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, 0, \frac{1}{2}, 0, 0, \frac{1}{4})$ $+ \frac{1}{14}\sqrt{91}e^1 \otimes e_3 + \frac{1}{7}\sqrt{21}e^5 \otimes e_6$	{1245, 146, 23468, 3458}
83:9	$0, 0, 0, 0, 0, \frac{12}{137}\sqrt{35}e^{12}, \frac{3}{137}\sqrt{266}e^{13}, \frac{21}{137}\sqrt{6}e^{14} + \frac{3}{137}\sqrt{266}e^{25}$	$(\frac{38}{137}, -\frac{44}{137}, -\frac{4}{137}, -\frac{25}{137}, \frac{57}{137}, -\frac{6}{137}, \frac{34}{137}, \frac{13}{137})$ $+ \frac{3}{137}\sqrt{854}e^1 \otimes e_4 + \frac{3}{137}\sqrt{854}e^5 \otimes e_6$	{1235, 1257, 136, 167}
83:9	$0, 0, 0, 0, 0, \frac{10}{751}\sqrt{178}e^{12}, \frac{10}{751}\sqrt{534}e^{13}, \frac{10}{751}\sqrt{278}e^{14} + \frac{10}{751}\sqrt{230}e^{25}$	$(\frac{65}{751}, -\frac{150}{751}, \frac{15}{751}, -\frac{35}{751}, \frac{180}{751}, -\frac{85}{751}, \frac{80}{751}, \frac{30}{751})$ $+ \frac{10}{751}\sqrt{482}e^5 \otimes e_7 + \frac{20}{751}\sqrt{114}e^1 \otimes e_4 + \frac{20}{751}\sqrt{114}e^3 \otimes e_6$	{1235, 167, 2456, 347}
83:9	$0, 0, 0, 0, 0, \frac{10}{751}\sqrt{178}e^{12}, \frac{10}{751}\sqrt{534}e^{13}, \frac{10}{751}\sqrt{278}e^{14} + \frac{10}{751}\sqrt{230}e^{25}$	$(\frac{65}{751}, -\frac{150}{751}, \frac{15}{751}, -\frac{35}{751}, \frac{180}{751}, -\frac{85}{751}, \frac{80}{751}, \frac{30}{751})$ $- \frac{10}{751}\sqrt{482}e^5 \otimes e_7 + \frac{20}{751}\sqrt{114}e^1 \otimes e_4 + \frac{20}{751}\sqrt{114}e^3 \otimes e_6$	{1235, 167, 2456, 347}
83:9	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{2759}e^{12}, \frac{2}{179}\sqrt{890}e^{13}, \frac{1}{179}\sqrt{3293}e^{14} + \frac{1}{179}\sqrt{1513}e^{25}$	$(-\frac{91}{358}, \frac{40}{179}, \frac{167}{358}, \frac{73}{358}, -\frac{49}{179}, -\frac{11}{358}, \frac{38}{179}, -\frac{9}{179})$ $+ \frac{1}{179}\sqrt{13439}e^2 \otimes e_5 + \frac{3}{179}\sqrt{1691}e^3 \otimes e_6$	{123, 1567, 246, 3457}
83:9	$0, 0, 0, 0, 0, \frac{5}{451}\sqrt{4790}e^{12}, \frac{2}{451}\sqrt{1437}e^{13},$ $\frac{2}{451}\sqrt{13891}e^{14} + \frac{16}{451}\sqrt{479}e^{25}$	$(\frac{12}{451}, -\frac{168}{451}, \frac{79}{451}, \frac{13}{41}, \frac{323}{451}, -\frac{156}{451}, \frac{91}{451}, \frac{155}{451})$ $+ \frac{2}{451}\sqrt{87657}e^5 \otimes e_6$	{1235, 1257, 136, 167, 23678, 268, 3578, 58}
83:9	$0, 0, 0, 0, 0, \frac{8}{73}\sqrt{2}e^{12}, \frac{8}{73}\sqrt{15}e^{13}, \frac{8}{73}\sqrt{3}e^{14} + \frac{16}{73}\sqrt{6}e^{25}$	$(-\frac{7}{73}, -\frac{13}{73}, \frac{31}{73}, \frac{6}{73}, \frac{12}{73}, -\frac{20}{73}, \frac{24}{73}, -\frac{1}{73})$ $+ \frac{24}{73}\sqrt{3}e^5 \otimes e_6 + \frac{8}{73}\sqrt{37}e^3 \otimes e_8$	{12678, 1578, 2357, 367}
83:9	$0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{2}{35}\sqrt{14}e^{14} + \frac{4}{35}\sqrt{7}e^{25}$	$(0, 0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{21}e^1 \otimes e_3 + \frac{2}{35}\sqrt{42}e^5 \otimes e_6 + \frac{2}{5}e^2 \otimes e_7$	{167, 3578}
83:9	$0, 0, 0, 0, 0, \frac{8}{1063}\sqrt{2438}e^{12}, \frac{8}{1063}\sqrt{2967}e^{13},$ $\frac{8}{1063}\sqrt{3427}e^{14} + \frac{16}{1063}\sqrt{230}e^{25}$	$(-\frac{249}{1063}, \frac{490}{1063}, \frac{6}{1063}, \frac{493}{1063}, -\frac{246}{1063}, \frac{241}{1063}, -\frac{243}{1063}, \frac{244}{1063})$ $+ \frac{104}{1063}\sqrt{69}e^4 \otimes e_7 + \frac{8}{1063}\sqrt{9683}e^2 \otimes e_5$	{1234, 13456, 2367, 357}
83:9	$0, 0, 0, 0, 0, \frac{4}{141}\sqrt{115}e^{12}, \frac{4}{141}\sqrt{230}e^{13}, \frac{4}{141}\sqrt{115}e^{14} + \frac{4}{141}\sqrt{230}e^{25}$	$(-\frac{7}{47}, -\frac{11}{141}, -\frac{1}{141}, \frac{70}{141}, \frac{20}{47}, -\frac{32}{141}, -\frac{22}{141}, \frac{49}{141})$ $+ \frac{2}{141}\sqrt{2806}e^4 \otimes e_7 + \frac{2}{141}\sqrt{2806}e^5 \otimes e_6$	{12345, 1346, 2468, 458}
83:9	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{161}e^{12}, \frac{7}{32}\sqrt{2}e^{13}, \frac{1}{32}\sqrt{161}e^{14} + \frac{7}{32}\sqrt{2}e^{25}$	$(\frac{1}{32}, -\frac{5}{64}, -\frac{3}{16}, \frac{11}{64}, \frac{9}{32}, -\frac{3}{64}, -\frac{5}{32}, \frac{13}{64})$ $+ \frac{1}{32}\sqrt{210}e^1 \otimes e_3 + \frac{1}{32}\sqrt{210}e^4 \otimes e_6$	{124, 168, 236, 348}
83:9	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{10}e^{12}, \frac{2}{47}\sqrt{85}e^{13}, \frac{2}{47}\sqrt{10}e^{14} + \frac{2}{47}\sqrt{85}e^{25}$	$(-\frac{8}{47}, \frac{11}{47}, \frac{9}{47}, \frac{7}{47}, -\frac{12}{47}, \frac{3}{47}, \frac{1}{47}, -\frac{1}{47})$ $+ \frac{2}{47}\sqrt{105}e^2 \otimes e_7 + \frac{2}{47}\sqrt{105}e^3 \otimes e_8$	{12356, 14578, 28, 3467}
83:9	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{2759}e^{12}, \frac{2}{179}\sqrt{890}e^{13}, \frac{1}{179}\sqrt{3293}e^{14} + \frac{1}{179}\sqrt{1513}e^{25}$	$(\frac{40}{179}, \frac{40}{179}, -\frac{2}{179}, -\frac{49}{179}, -\frac{49}{179}, \frac{80}{179}, \frac{38}{179}, -\frac{9}{179})$ $+ \frac{1}{179}\sqrt{13439}e^2 \otimes e_5 + \frac{3}{179}\sqrt{1691}e^1 \otimes e_4$	{123, 127, 1356, 1567, 23467, 246, 3457, 45}
83:9	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{78}e^{12}, \frac{2}{17}\sqrt{39}e^{13}, \frac{2}{17}\sqrt{26}e^{14} + \frac{2}{17}\sqrt{39}e^{25}$	$(-\frac{2}{17}, \frac{8}{17}, -\frac{3}{17}, \frac{7}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{5}{17}, \frac{5}{17})$ $+ \frac{2}{17}\sqrt{91}e^2 \otimes e_7$	{12348, 1235, 145678, 167, 2456, 268, 347, 3578}
83:9	$0, 0, 0, 0, 0, \frac{2}{415}\sqrt{3161}e^{12}, \frac{2}{415}\sqrt{12971}e^{13}, \frac{2}{415}\sqrt{3161}e^{14} + \frac{2}{415}\sqrt{327}e^{25}$	$(-\frac{128}{415}, \frac{23}{415}, \frac{113}{415}, \frac{203}{415}, \frac{52}{415}, -\frac{21}{83}, -\frac{3}{83}, \frac{15}{83})$ $+ \frac{2}{415}\sqrt{19947}e^3 \otimes e_6 + \frac{2}{415}\sqrt{19947}e^4 \otimes e_7$	{1234, 1678, 24568, 357}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:9	$0, 0, 0, 0, 0, \frac{4}{281}\sqrt{215}e^{12}, \frac{4}{281}\sqrt{1290}e^{13}, \frac{4}{281}\sqrt{645}e^{14} + \frac{4}{281}\sqrt{1290}e^{25}$	$(-\frac{41}{281}, \frac{70}{281}, \frac{140}{281}, \frac{9}{281}, -\frac{102}{281}, \frac{29}{281}, \frac{99}{281}, -\frac{32}{281})$ $+ \frac{18}{281}\sqrt{86}e^2 \otimes e_5 + \frac{2}{281}\sqrt{13846}e^3 \otimes e_8$	{12678, 1578, 248, 4568}
83:9	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{4}{41}\sqrt{10}e^{13}, \frac{6}{41}\sqrt{5}e^{14} + \frac{3}{41}\sqrt{30}e^{25}$	$(-\frac{9}{82}, \frac{3}{82}, -\frac{4}{41}, \frac{13}{41}, \frac{7}{41}, -\frac{3}{41}, -\frac{17}{82}, \frac{17}{82})$ $+ \frac{1}{41}\sqrt{330}e^5 \otimes e_6 + \frac{1}{41}\sqrt{410}e^2 \otimes e_7$	{1235, 167, 268, 3578}
83:9	$0, 0, 0, 0, 0, \frac{2}{1195}\sqrt{1090}e^{12}, \frac{2}{1195}\sqrt{102678}e^{13},$ $\frac{2}{1195}\sqrt{48614}e^{14} + \frac{2}{1195}\sqrt{69542}e^{25}$	$(\frac{329}{1195}, -\frac{198}{1195}, -\frac{69}{239}, -\frac{107}{1195}, \frac{84}{239}, \frac{131}{1195}, -\frac{16}{1195}, \frac{222}{1195})$ $+ \frac{2}{1195}\sqrt{133634}e^5 \otimes e_7 + \frac{8}{1195}\sqrt{6213}e^1 \otimes e_4$	{1235, 167, 2456, 347}
83:9	$0, 0, 0, 0, 0, \frac{8}{97}\sqrt{6}e^{12}, \frac{4}{97}\sqrt{41}e^{13}, \frac{4}{97}\sqrt{2}e^{14} + \frac{4}{97}\sqrt{41}e^{25}$	$(-\frac{7}{97}, -\frac{9}{97}, \frac{11}{97}, \frac{10}{97}, \frac{12}{97}, -\frac{16}{97}, \frac{4}{97}, \frac{3}{97})$ $+ \frac{12}{97}\sqrt{5}e^5 \otimes e_7 + \frac{8}{97}\sqrt{11}e^3 \otimes e_8$	{12356, 124678, 3467, 568}
83:9	$0, 0, 0, 0, 0, \frac{2}{1195}\sqrt{1090}e^{12}, \frac{2}{1195}\sqrt{102678}e^{13},$ $\frac{2}{1195}\sqrt{48614}e^{14} + \frac{2}{1195}\sqrt{69542}e^{25}$	$(-\frac{127}{1195}, -\frac{198}{1195}, \frac{111}{1195}, \frac{349}{1195}, \frac{84}{239}, -\frac{65}{239}, -\frac{16}{1195}, \frac{222}{1195})$ $+ \frac{2}{1195}\sqrt{133634}e^5 \otimes e_7 + \frac{8}{1195}\sqrt{6213}e^3 \otimes e_6$	{1235, 167, 2456, 347}
83:9	$0, 0, 0, 0, 0, \frac{99}{569}\sqrt{2}e^{12}, \frac{33}{569}\sqrt{35}e^{13}, \frac{11}{569}\sqrt{193}e^{14} + \frac{22}{569}\sqrt{61}e^{25}$	$(-\frac{121}{569}, \frac{11}{569}, \frac{143}{569}, \frac{143}{569}, \frac{11}{569}, -\frac{110}{569}, \frac{22}{569}, \frac{22}{569})$ $+ \frac{11}{569}\sqrt{497}e^3 \otimes e_8 - \frac{55}{569}\sqrt{15}e^4 \otimes e_7 + \frac{99}{569}\sqrt{2}e^5 \otimes e_6$	{12678, 1578, 2357, 367}
83:9	$0, 0, 0, 0, 0, \frac{99}{569}\sqrt{2}e^{12}, \frac{33}{569}\sqrt{35}e^{13}, \frac{11}{569}\sqrt{193}e^{14} + \frac{22}{569}\sqrt{61}e^{25}$	$(-\frac{121}{569}, \frac{11}{569}, \frac{143}{569}, \frac{143}{569}, \frac{11}{569}, -\frac{110}{569}, \frac{22}{569}, \frac{22}{569})$ $+ \frac{11}{569}\sqrt{497}e^3 \otimes e_8 + \frac{55}{569}\sqrt{15}e^4 \otimes e_7 + \frac{99}{569}\sqrt{2}e^5 \otimes e_6$	{12678, 1578, 2357, 367}
83:9	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{2759}e^{12}, \frac{2}{179}\sqrt{890}e^{13}, \frac{1}{179}\sqrt{3293}e^{14} + \frac{1}{179}\sqrt{1513}e^{25}$	$(\frac{40}{179}, \frac{40}{179}, -\frac{2}{179}, -\frac{49}{179}, -\frac{49}{179}, \frac{80}{179}, \frac{38}{179}, -\frac{9}{179})$ $- \frac{1}{179}\sqrt{13439}e^2 \otimes e_5 + \frac{3}{179}\sqrt{1691}e^1 \otimes e_4$	{123, 127, 1356, 1567, 23467, 246, 3457, 45}
83:9	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{3}{41}\sqrt{30}e^{13}, \frac{6}{41}\sqrt{5}e^{14} + \frac{4}{41}\sqrt{10}e^{25}$	$(-\frac{10}{41}, \frac{7}{41}, \frac{7}{41}, \frac{13}{41}, -\frac{4}{41}, -\frac{3}{41}, -\frac{3}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{330}e^3 \otimes e_6 + \frac{1}{41}\sqrt{410}e^2 \otimes e_7$	{12348, 1235, 145678, 167, 2456, 268, 347, 3578}
83:9	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{190}e^{12}, \frac{3}{41}\sqrt{30}e^{13}, \frac{6}{41}\sqrt{5}e^{14} + \frac{4}{41}\sqrt{10}e^{25}$	$(-\frac{10}{41}, \frac{7}{41}, \frac{7}{41}, \frac{13}{41}, -\frac{4}{41}, -\frac{3}{41}, -\frac{3}{41}, \frac{3}{41})$ $- \frac{1}{41}\sqrt{330}e^3 \otimes e_6 + \frac{1}{41}\sqrt{410}e^2 \otimes e_7$	{12348, 1235, 145678, 167, 2456, 268, 347, 3578}
83:9	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{12}, \frac{3}{29}\sqrt{13}e^{13}, \frac{1}{29}\sqrt{130}e^{14} + \frac{3}{29}\sqrt{13}e^{25}$	$(-\frac{9}{29}, \frac{8}{29}, \frac{7}{29}, \frac{12}{29}, -\frac{5}{29}, -\frac{1}{29}, -\frac{2}{29}, \frac{3}{29})$ $+ \frac{1}{29}\sqrt{377}e^4 \otimes e_6 + \frac{2}{29}\sqrt{78}e^2 \otimes e_5$	{12347, 124, 236, 267}
83:9	$0, 0, 0, 0, 0, \frac{14}{37}\sqrt{2}e^{12}, \frac{2}{37}\sqrt{238}e^{13}, \frac{14}{37}\sqrt{2}e^{14} + \frac{2}{37}\sqrt{238}e^{25}$	$(\frac{3}{37}, -\frac{4}{37}, -\frac{11}{37}, \frac{13}{37}, \frac{20}{37}, -\frac{1}{37}, -\frac{8}{37}, \frac{16}{37})$ $+ \frac{2}{37}\sqrt{434}e^5 \otimes e_7$	{12356, 124678, 13458, 17, 2378, 245, 3467, 568}
83:10	$0, 0, 0, 0, 0, \frac{63}{857}\sqrt{6}e^{12}, \frac{21}{857}\sqrt{26}e^{13}, \frac{7}{857}\sqrt{22}e^{23} + \frac{14}{857}\sqrt{106}e^{45}$	$(\frac{35}{857}, \frac{35}{857}, -\frac{49}{857}, -\frac{133}{857}, \frac{119}{857}, \frac{70}{857}, -\frac{14}{857}, -\frac{14}{857})$ $- \frac{14}{857}\sqrt{105}e^2 \otimes e_7 + \frac{14}{857}\sqrt{158}e^1 \otimes e_8 + \frac{42}{857}\sqrt{14}e^5 \otimes e_6$	{12345, 167, 2468, 3578}
83:10	$0, 0, 0, 0, 0, \frac{63}{857}\sqrt{6}e^{12}, \frac{21}{857}\sqrt{26}e^{13}, \frac{7}{857}\sqrt{22}e^{23} + \frac{14}{857}\sqrt{106}e^{45}$	$(\frac{35}{857}, \frac{35}{857}, -\frac{49}{857}, -\frac{133}{857}, \frac{119}{857}, \frac{70}{857}, -\frac{14}{857}, -\frac{14}{857})$ $+ \frac{14}{857}\sqrt{105}e^2 \otimes e_7 + \frac{14}{857}\sqrt{158}e^1 \otimes e_8 + \frac{42}{857}\sqrt{14}e^5 \otimes e_6$	{12345, 167, 2468, 3578}
83:10	$0, 0, 0, 0, 0, \frac{42}{467}\sqrt{10}e^{12}, \frac{42}{467}\sqrt{10}e^{13}, \frac{14}{467}\sqrt{58}e^{23} + \frac{112}{467}e^{45}$	$(\frac{70}{467}, \frac{70}{467}, -\frac{98}{467}, -\frac{63}{467}, \frac{35}{467}, \frac{140}{467}, -\frac{28}{467}, -\frac{28}{467})$ $+ \frac{140}{467}\sqrt{2}e^1 \otimes e_8 + \frac{28}{467}\sqrt{42}e^2 \otimes e_7 + \frac{98}{467}e^5 \otimes e_4$	{2468, 2568, 3478, 3578}
83:10	$0, 0, 0, 0, 0, \frac{42}{467}\sqrt{10}e^{12}, \frac{42}{467}\sqrt{10}e^{13}, \frac{14}{467}\sqrt{58}e^{23} + \frac{112}{467}e^{45}$	$(\frac{70}{467}, \frac{70}{467}, -\frac{98}{467}, -\frac{63}{467}, \frac{35}{467}, \frac{140}{467}, -\frac{28}{467}, -\frac{28}{467})$ $+ \frac{140}{467}\sqrt{2}e^1 \otimes e_8 - \frac{28}{467}\sqrt{42}e^2 \otimes e_7 + \frac{98}{467}e^5 \otimes e_4$	{2468, 2568, 3478, 3578}
83:10	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{62}e^{12}, \frac{6}{119}\sqrt{62}e^{13}, \frac{2}{119}\sqrt{186}e^{23} + \frac{4}{119}\sqrt{186}e^{45}$	$(\frac{2}{17}, \frac{18}{119}, \frac{18}{119}, \frac{111}{119}, -\frac{75}{119}, \frac{32}{119}, \frac{32}{119}, \frac{36}{119})$ $+ \frac{186}{119}e^4 \otimes e_5$	{12478, 12578, 2468, 2568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:10	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{22}e^{12}, \frac{1}{14}\sqrt{22}e^{13}, \frac{1}{7}\sqrt{6}e^{23} + \frac{1}{7}e^{45}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{5}{14}\sqrt{2}e^2 \otimes e_7 - \frac{5}{14}\sqrt{2}e^3 \otimes e_6$	{1234, 1467, 24568, 268}
83:10	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{22}e^{12}, \frac{1}{14}\sqrt{22}e^{13}, \frac{1}{7}\sqrt{6}e^{23} + \frac{1}{7}e^{45}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{5}{14}\sqrt{2}e^2 \otimes e_7 + \frac{5}{14}\sqrt{2}e^3 \otimes e_6$	{1234, 1467, 24568, 268}
83:10	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{22}e^{12}, \frac{1}{16}\sqrt{22}e^{13}, \frac{1}{8}\sqrt{6}e^{23} + \frac{1}{8}e^{45}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4})$ $+ \frac{1}{4}e^5 \otimes e_4 + \frac{5}{16}\sqrt{2}e^2 \otimes e_7 + \frac{5}{16}\sqrt{2}e^3 \otimes e_6$	{1234, 1235, 1467, 1567}
83:10	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{22}e^{12}, \frac{1}{16}\sqrt{22}e^{13}, \frac{1}{8}\sqrt{6}e^{23} + \frac{1}{8}e^{45}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4})$ $+ \frac{1}{4}e^5 \otimes e_4 + \frac{5}{16}\sqrt{2}e^2 \otimes e_7 - \frac{5}{16}\sqrt{2}e^3 \otimes e_6$	{1234, 1235, 1467, 1567}
83:10	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{160358}e^{12}, \frac{1}{487}\sqrt{2442}e^{13},$ $\frac{1}{487}\sqrt{82214}e^{23} + \frac{14}{487}\sqrt{814}e^{45}$	$(-\frac{107}{487}, -\frac{9}{487}, \frac{191}{487}, \frac{291}{487}, -\frac{109}{487}, -\frac{116}{487}, \frac{84}{487}, \frac{182}{487})$ $+ \frac{20}{487}\sqrt{814}e^4 \otimes e_6$	{123478, 1245, 1367, 1568, 23568, 267, 345, 478}
83:10	$0, 0, 0, 0, 0, \frac{7}{65}\sqrt{30}e^{12}, \frac{7}{65}\sqrt{30}e^{13}, \frac{7}{65}\sqrt{10}e^{23} + \frac{14}{65}\sqrt{10}e^{45}$	$(\frac{7}{13}, -\frac{7}{65}, -\frac{7}{65}, -\frac{7}{65}, -\frac{7}{65}, \frac{28}{65}, \frac{28}{65}, -\frac{14}{65})$ $+ \frac{14}{65}\sqrt{26}e^1 \otimes e_8$	{123, 12345, 14567, 167, 2468}
83:10	$0, 0, 0, 0, 0, \frac{21}{209}\sqrt{10}e^{12}, \frac{21}{209}\sqrt{10}e^{13}, \frac{7}{209}\sqrt{58}e^{23} + \frac{56}{209}e^{45}$	$(\frac{35}{209}, \frac{35}{209}, -\frac{49}{209}, -\frac{7}{209}, -\frac{7}{209}, \frac{70}{209}, -\frac{14}{209}, -\frac{14}{209})$ $+ \frac{14}{209}\sqrt{42}e^2 \otimes e_7 + \frac{70}{209}\sqrt{2}e^1 \otimes e_8$	{123, 12345, 14567, 167, 2468, 3478}
83:10	$0, 0, 0, 0, 0, \frac{21}{209}\sqrt{10}e^{12}, \frac{21}{209}\sqrt{10}e^{13}, \frac{7}{209}\sqrt{58}e^{23} + \frac{56}{209}e^{45}$	$(\frac{35}{209}, \frac{35}{209}, -\frac{49}{209}, -\frac{7}{209}, -\frac{7}{209}, \frac{70}{209}, -\frac{14}{209}, -\frac{14}{209})$ $- \frac{14}{209}\sqrt{42}e^2 \otimes e_7 + \frac{70}{209}\sqrt{2}e^1 \otimes e_8$	{123, 12345, 14567, 167, 2468, 3478}
83:10	$0, 0, 0, 0, 0, \frac{7}{257}\sqrt{166}e^{12}, \frac{21}{257}\sqrt{6}e^{13}, \frac{7}{257}\sqrt{38}e^{23} + \frac{14}{257}\sqrt{46}e^{45}$	$(\frac{35}{257}, -\frac{35}{257}, \frac{21}{257}, \frac{49}{257}, -\frac{63}{257}, 0, \frac{56}{257}, -\frac{14}{257})$ $+ \frac{14}{257}\sqrt{58}e^1 \otimes e_8 + \frac{28}{257}\sqrt{14}e^4 \otimes e_6$	{12457, 136, 235678, 48}
83:10	$0, 0, 0, 0, 0, \frac{1}{629}\sqrt{107062}e^{12}, \frac{7}{629}\sqrt{538}e^{13},$ $\frac{1}{629}\sqrt{9146}e^{23} + \frac{2}{629}\sqrt{17754}e^{45}$	$(-\frac{169}{629}, \frac{147}{629}, \frac{47}{629}, \frac{247}{629}, -\frac{53}{629}, -\frac{22}{629}, -\frac{122}{629}, \frac{194}{629})$ $+ \frac{10}{629}\sqrt{1345}e^2 \otimes e_7 + \frac{10}{629}\sqrt{1614}e^4 \otimes e_6$	{12348, 15678, 26, 3457}
83:10	$0, 0, 0, 0, 0, \frac{14}{179}\sqrt{30}e^{12}, \frac{14}{179}\sqrt{30}e^{13}, \frac{14}{179}\sqrt{10}e^{23} + \frac{28}{179}\sqrt{10}e^{45}$	$(\frac{70}{179}, -\frac{14}{179}, -\frac{14}{179}, \frac{35}{179}, -\frac{63}{179}, \frac{56}{179}, \frac{56}{179}, -\frac{28}{179})$ $+ \frac{28}{179}\sqrt{26}e^1 \otimes e_8 + \frac{98}{179}e^4 \otimes e_5$	{2468, 2568}
83:11	$0, 0, 0, 0, 0, \frac{30}{881}\sqrt{10}e^{12}, \frac{50}{881}\sqrt{3}e^{13}, \frac{10}{881}\sqrt{11}e^{24} + \frac{5}{881}\sqrt{502}e^{35}$	$(\frac{35}{881}, -\frac{85}{881}, -\frac{25}{881}, \frac{95}{881}, \frac{35}{881}, -\frac{50}{881}, \frac{10}{881}, \frac{10}{881})$ $+ \frac{10}{881}\sqrt{146}e^1 \otimes e_8 + \frac{5}{881}\sqrt{426}e^5 \otimes e_7 + \frac{5}{881}\sqrt{606}e^3 \otimes e_6$	{1235, 1467, 24568, 378}
83:11	$0, 0, 0, 0, 0, \frac{30}{881}\sqrt{10}e^{12}, \frac{50}{881}\sqrt{3}e^{13}, \frac{10}{881}\sqrt{11}e^{24} + \frac{5}{881}\sqrt{502}e^{35}$	$(\frac{35}{881}, -\frac{85}{881}, -\frac{25}{881}, \frac{95}{881}, \frac{35}{881}, -\frac{50}{881}, \frac{10}{881}, \frac{10}{881})$ $+ \frac{10}{881}\sqrt{146}e^1 \otimes e_8 - \frac{5}{881}\sqrt{426}e^5 \otimes e_7 + \frac{5}{881}\sqrt{606}e^3 \otimes e_6$	{1235, 1467, 24568, 378}
83:11	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}\sqrt{2}e^{13}, \frac{2}{5}\sqrt{2}e^{24} + \frac{2}{5}\sqrt{2}e^{35}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{2}{5}, \frac{2}{5}, -\frac{1}{5})$ $+ \frac{1}{5}\sqrt{2}e^1 \otimes e_8$	{12345, 1247, 167, 23678, 2568, 458}
83:11	$0, 0, 0, 0, 0, \frac{8}{37}e^{12}, \frac{1}{37}\sqrt{22}e^{13}, \frac{1}{37}\sqrt{22}e^{24} + \frac{2}{37}\sqrt{13}e^{35}$	$(\frac{2}{37}, \frac{1}{37}, -\frac{5}{37}, -\frac{1}{37}, \frac{5}{37}, \frac{3}{37}, -\frac{3}{37}, 0)$ $+ \frac{1}{37}\sqrt{62}e^5 \otimes e_6 + \frac{2}{37}\sqrt{10}e^1 \otimes e_8 + \frac{6}{37}e^2 \otimes e_4$	{12357, 146}
83:11	$0, 0, 0, 0, 0, \frac{65}{701}\sqrt{10}e^{12}, \frac{13}{701}\sqrt{190}e^{13}, \frac{39}{701}\sqrt{6}e^{24} + \frac{156}{701}\sqrt{2}e^{35}$	$(\frac{130}{701}, \frac{65}{701}, -\frac{169}{701}, -\frac{104}{701}, \frac{130}{701}, \frac{195}{701}, -\frac{39}{701}, -\frac{39}{701})$ $- \frac{26}{701}\sqrt{102}e^5 \otimes e_7 + \frac{52}{701}\sqrt{35}e^1 \otimes e_8 + \frac{91}{701}\sqrt{6}e^2 \otimes e_4$	{23678, 2568, 3478, 458}
83:11	$0, 0, 0, 0, 0, \frac{65}{701}\sqrt{10}e^{12}, \frac{13}{701}\sqrt{190}e^{13}, \frac{39}{701}\sqrt{6}e^{24} + \frac{156}{701}\sqrt{2}e^{35}$	$(\frac{130}{701}, \frac{65}{701}, -\frac{169}{701}, -\frac{104}{701}, \frac{130}{701}, \frac{195}{701}, -\frac{39}{701}, -\frac{39}{701})$ $+ \frac{26}{701}\sqrt{102}e^5 \otimes e_7 + \frac{52}{701}\sqrt{35}e^1 \otimes e_8 + \frac{91}{701}\sqrt{6}e^2 \otimes e_4$	{23678, 2568, 3478, 458}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:11	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{78}e^{12}, \frac{2}{71}\sqrt{39}e^{13}, \frac{6}{71}\sqrt{78}e^{24} + \frac{2}{71}\sqrt{39}e^{35}$	$(-\frac{3}{71}, -\frac{22}{71}, \frac{16}{71}, \frac{53}{71}, \frac{15}{71}, -\frac{25}{71}, \frac{13}{71}, \frac{31}{71})$ $+ \frac{6}{71}\sqrt{247}e^4 \otimes e_6$	{12347, 1245, 1367, 156, 23568, 2678, 3458, 478}
83:11	$0, 0, 0, 0, 0, \frac{3}{79}\sqrt{170}e^{12}, \frac{1}{79}\sqrt{510}e^{13}, \frac{1}{79}\sqrt{174}e^{24} + \frac{4}{79}\sqrt{102}e^{35}$	$(-\frac{10}{79}, \frac{35}{79}, -\frac{11}{79}, -\frac{16}{79}, \frac{30}{79}, \frac{25}{79}, -\frac{21}{79}, \frac{19}{79})$ $+ \frac{3}{79}\sqrt{374}e^2 \otimes e_4 + \frac{6}{79}\sqrt{102}e^5 \otimes e_7$	{1235, 127, 13456, 1467}
83:11	$0, 0, 0, 0, 0, \frac{8}{495}\sqrt{402}e^{12}, \frac{8}{495}\sqrt{105}e^{13}, \frac{8}{165}\sqrt{26}e^{24} + \frac{8}{165}\sqrt{47}e^{35}$	$(-\frac{128}{495}, \frac{20}{99}, \frac{68}{495}, \frac{4}{495}, \frac{4}{55}, -\frac{28}{495}, -\frac{4}{33}, \frac{104}{495})$ $+ \frac{16}{495}\sqrt{102}e^5 \otimes e_7 + \frac{8}{495}\sqrt{345}e^2 \otimes e_4 + \frac{8}{495}\sqrt{609}e^3 \otimes e_6$	{1235, 1467}
83:11	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{22}e^{12}, \frac{1}{25}\sqrt{22}e^{13}, \frac{1}{25}\sqrt{22}e^{24} + \frac{2}{25}\sqrt{33}e^{35}$	$(-\frac{1}{5}, \frac{4}{25}, -\frac{2}{25}, \frac{4}{25}, \frac{2}{5}, -\frac{1}{25}, -\frac{7}{25}, \frac{8}{25})$ $+ \frac{1}{25}\sqrt{286}e^5 \otimes e_6 + \frac{3}{25}\sqrt{22}e^2 \otimes e_7$	{12458, 13678, 23468, 578}
83:11	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{1}{11}\sqrt{2}e^{24} + \frac{2}{11}e^{35}$	$(\frac{1}{11}, 0, -\frac{2}{11}, 0, \frac{2}{11}, \frac{1}{11}, -\frac{1}{11}, 0)$ $+ \frac{1}{11}\sqrt{6}e^2 \otimes e_7 + \frac{1}{11}\sqrt{6}e^5 \otimes e_6 + \frac{2}{11}\sqrt{2}e^1 \otimes e_8$	{12345, 167}
83:11	$0, 0, 0, 0, 0, \frac{1}{205}\sqrt{10858}e^{12}, \frac{1}{205}\sqrt{1958}e^{13}, \frac{1}{205}\sqrt{1958}e^{24} + \frac{6}{205}\sqrt{178}e^{35}$	$(\frac{58}{205}, \frac{29}{205}, -\frac{21}{205}, -\frac{12}{41}, -\frac{2}{41}, \frac{87}{205}, \frac{37}{205}, -\frac{31}{205})$ $+ \frac{1}{41}\sqrt{534}e^2 \otimes e_4 + \frac{4}{205}\sqrt{1157}e^1 \otimes e_8$	{23678, 2568, 3478, 458}
83:11	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{93}e^{12}, \frac{6}{127}\sqrt{93}e^{13}, \frac{1}{127}\sqrt{93}e^{24} + \frac{1}{127}\sqrt{93}e^{35}$	$(-\frac{20}{127}, \frac{54}{127}, \frac{54}{127}, -\frac{39}{127}, -\frac{39}{127}, \frac{34}{127}, \frac{34}{127}, \frac{15}{127})$ $+ \frac{3}{127}\sqrt{1147}e^2 \otimes e_4 - \frac{3}{127}\sqrt{1147}e^3 \otimes e_5$	{123, 1257, 14567, 2367, 256, 45}
83:11	$0, 0, 0, 0, 0, \frac{1}{235}\sqrt{2706}e^{12}, \frac{2}{235}\sqrt{1394}e^{13}, \frac{2}{235}\sqrt{1394}e^{24} + \frac{2}{235}\sqrt{41}e^{35}$	$(\frac{29}{235}, \frac{6}{47}, -\frac{8}{47}, -\frac{42}{235}, \frac{28}{235}, \frac{59}{235}, -\frac{11}{235}, -\frac{12}{235})$ $+ \frac{1}{235}\sqrt{8610}e^2 \otimes e_7 + \frac{4}{235}\sqrt{533}e^1 \otimes e_8$	{1234, 1567, 268, 34578}
83:11	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{93}e^{12}, \frac{6}{127}\sqrt{93}e^{13}, \frac{1}{127}\sqrt{93}e^{24} + \frac{1}{127}\sqrt{93}e^{35}$	$(-\frac{20}{127}, \frac{54}{127}, \frac{54}{127}, -\frac{39}{127}, -\frac{39}{127}, \frac{34}{127}, \frac{34}{127}, \frac{15}{127})$ $+ \frac{3}{127}\sqrt{1147}e^2 \otimes e_4 + \frac{3}{127}\sqrt{1147}e^3 \otimes e_5$	{123, 1257, 14567, 2367, 256, 45}
83:11	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{494}e^{12}, \frac{2}{115}\sqrt{209}e^{13}, \frac{2}{115}\sqrt{494}e^{24} + \frac{2}{115}\sqrt{209}e^{35}$	$(\frac{33}{115}, -\frac{38}{115}, -\frac{8}{115}, \frac{33}{115}, \frac{3}{115}, -\frac{1}{23}, \frac{5}{23}, -\frac{1}{23})$ $+ \frac{4}{115}\sqrt{266}e^1 \otimes e_8 - \frac{6}{115}\sqrt{95}e^4 \otimes e_6$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:11	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{494}e^{12}, \frac{2}{115}\sqrt{209}e^{13}, \frac{2}{115}\sqrt{494}e^{24} + \frac{2}{115}\sqrt{209}e^{35}$	$(\frac{33}{115}, -\frac{38}{115}, -\frac{8}{115}, \frac{33}{115}, \frac{3}{115}, -\frac{1}{23}, \frac{5}{23}, -\frac{1}{23})$ $+ \frac{4}{115}\sqrt{266}e^1 \otimes e_8 + \frac{6}{115}\sqrt{95}e^4 \otimes e_6$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:11	$0, 0, 0, 0, 0, \frac{7}{11}e^{12}, \frac{2}{11}\sqrt{21}e^{13}, \frac{2}{11}\sqrt{21}e^{24} + \frac{7}{11}e^{35}$	$(-\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{5}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{4}{11})$ $+ \frac{1}{11}\sqrt{133}e^4 \otimes e_7$	{12346, 12678, 13458, 157, 23578, 245, 367, 468}
83:11	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{154}e^{12}, \frac{1}{107}\sqrt{1342}e^{13}, \frac{1}{107}\sqrt{1342}e^{24} + \frac{2}{107}\sqrt{473}e^{35}$	$(-\frac{18}{107}, \frac{21}{107}, -\frac{5}{107}, -\frac{1}{107}, \frac{25}{107}, \frac{3}{107}, -\frac{23}{107}, \frac{20}{107})$ $+ \frac{11}{107}\sqrt{22}e^5 \otimes e_6 + \frac{2}{107}\sqrt{429}e^2 \otimes e_4$	{12357, 146, 267, 345}
83:11	$0, 0, 0, 0, 0, \frac{2}{685}\sqrt{11715}e^{12}, \frac{6}{685}\sqrt{1562}e^{13}, \frac{1}{685}\sqrt{94998}e^{24} + \frac{2}{685}\sqrt{10011}e^{35}$	$(-\frac{169}{685}, \frac{79}{685}, \frac{7}{137}, \frac{123}{685}, \frac{167}{685}, -\frac{18}{137}, -\frac{134}{685}, \frac{202}{685})$ $+ \frac{3}{685}\sqrt{12922}e^4 \otimes e_6 + \frac{3}{685}\sqrt{16046}e^2 \otimes e_7$	{1234, 1567, 268, 34578}
83:11	$0, 0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{2}{5}e^{13}, \frac{2}{5}e^{24} + \frac{1}{5}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{5}\sqrt{5}e^4 \otimes e_7 + \frac{2}{5}e^1 \otimes e_8$	{12346, 157, 23578, 468}
83:11	$0, 0, 0, 0, 0, \frac{24}{1319}\sqrt{890}e^{12}, \frac{8}{1319}\sqrt{435}e^{13}, \frac{8}{1319}\sqrt{3810}e^{24} + \frac{40}{1319}\sqrt{219}e^{35}$	$(-\frac{368}{1319}, \frac{364}{1319}, \frac{476}{1319}, -\frac{116}{1319}, -\frac{228}{1319}, -\frac{4}{1319}, \frac{108}{1319}, \frac{248}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^2 \otimes e_4 + \frac{360}{1319}\sqrt{5}e^3 \otimes e_6$	{12357, 146, 267, 345}
83:11	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{70}e^{12}, \frac{1}{22}\sqrt{70}e^{13}, \frac{1}{22}\sqrt{70}e^{24} + \frac{1}{22}\sqrt{70}e^{35}$	$(-\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{5}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{4}{11})$ $+ \frac{1}{22}\sqrt{266}e^4 \otimes e_6 + \frac{1}{22}\sqrt{266}e^5 \otimes e_7$	{12345, 1247, 167, 23678, 2568, 458}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:11	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{70}e^{12}, \frac{1}{22}\sqrt{70}e^{13}, \frac{1}{22}\sqrt{70}e^{24} + \frac{1}{22}\sqrt{70}e^{35}$	$(-\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{5}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{4}{11})$ $+ \frac{1}{22}\sqrt{266}e^4 \otimes e_6 - \frac{1}{22}\sqrt{266}e^5 \otimes e_7$	{12345, 1247, 167, 23678, 2568, 458}
83:11	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{305}e^{13}, \frac{3}{133}\sqrt{110}e^{24} + \frac{3}{133}\sqrt{110}e^{35}$	$(-\frac{45}{133}, \frac{33}{133}, \frac{33}{133}, \frac{5}{133}, \frac{5}{133}, -\frac{12}{133}, -\frac{12}{133}, \frac{2}{7})$ $+ \frac{9}{133}\sqrt{65}e^2 \otimes e_7 - \frac{9}{133}\sqrt{65}e^3 \otimes e_6$	{12345, 1238, 145678, 167, 246, 2568}
83:11	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{12}, \frac{3}{133}\sqrt{305}e^{13}, \frac{3}{133}\sqrt{110}e^{24} + \frac{3}{133}\sqrt{110}e^{35}$	$(-\frac{45}{133}, \frac{33}{133}, \frac{33}{133}, \frac{5}{133}, \frac{5}{133}, -\frac{12}{133}, -\frac{12}{133}, \frac{2}{7})$ $+ \frac{9}{133}\sqrt{65}e^2 \otimes e_7 + \frac{9}{133}\sqrt{65}e^3 \otimes e_6$	{12345, 1238, 145678, 167, 246, 2568}
83:11	$0, 0, 0, 0, 0, \frac{3}{137}\sqrt{2090}e^{12}, \frac{1}{137}\sqrt{5610}e^{13}, \frac{1}{137}\sqrt{5610}e^{24} + \frac{10}{137}\sqrt{66}e^{35}$	$(-\frac{14}{137}, \frac{97}{137}, \frac{23}{137}, -\frac{68}{137}, \frac{6}{137}, \frac{83}{137}, \frac{9}{137}, \frac{29}{137})$ $+ \frac{3}{137}\sqrt{4070}e^2 \otimes e_4$	{12, 12357, 134567, 146, 2356, 267, 345, 47}
83:11	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{6}e^{24} + \frac{1}{10}\sqrt{6}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{10}e^4 \otimes e_6 - \frac{1}{10}\sqrt{10}e^5 \otimes e_7 + \frac{2}{5}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 23678, 2568, 3478, 458}
83:11	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{6}e^{24} + \frac{1}{10}\sqrt{6}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{10}e^4 \otimes e_6 + \frac{1}{10}\sqrt{10}e^5 \otimes e_7 + \frac{2}{5}e^1 \otimes e_8$	{12345, 1247, 167, 23678, 2568, 458}
83:11	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{6}e^{24} + \frac{1}{10}\sqrt{6}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $- \frac{1}{10}\sqrt{10}e^4 \otimes e_6 - \frac{1}{10}\sqrt{10}e^5 \otimes e_7 + \frac{2}{5}e^1 \otimes e_8$	{12345, 1247, 167, 23678, 2568, 458}
83:11	$0, 0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{6}{11}\sqrt{2}e^{13}, \frac{6}{11}\sqrt{2}e^{24} + \frac{6}{11}e^{35}$	$(-\frac{3}{11}, \frac{6}{11}, 0, -\frac{2}{11}, \frac{4}{11}, \frac{3}{11}, -\frac{3}{11}, \frac{4}{11})$ $+ \frac{9}{11}\sqrt{2}e^2 \otimes e_7$	{1234, 12358, 14678, 1567, 2456, 268, 34578, 37}
83:12	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{209}e^{12}, \frac{3}{115}\sqrt{266}e^{34}, \frac{1}{115}\sqrt{1558}e^{13} + \frac{2}{115}\sqrt{209}e^{25}$	$(\frac{33}{115}, -\frac{8}{115}, -\frac{38}{115}, \frac{33}{115}, \frac{3}{115}, \frac{5}{23}, -\frac{1}{23}, -\frac{1}{23})$ $+ \frac{1}{115}\sqrt{3838}e^1 \otimes e_7 + \frac{1}{115}\sqrt{3838}e^4 \otimes e_8$	{12345, 128, 1346, 1568, 23678, 24567, 3578, 47}
83:12	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{209}e^{12}, \frac{3}{115}\sqrt{266}e^{34}, \frac{1}{115}\sqrt{1558}e^{13} + \frac{2}{115}\sqrt{209}e^{25}$	$(\frac{33}{115}, -\frac{8}{115}, -\frac{38}{115}, \frac{33}{115}, \frac{3}{115}, \frac{5}{23}, -\frac{1}{23}, -\frac{1}{23})$ $+ \frac{1}{115}\sqrt{3838}e^1 \otimes e_7 - \frac{1}{115}\sqrt{3838}e^4 \otimes e_8$	{12345, 128, 1346, 1568, 23678, 24567, 3578, 47}
83:12	$0, 0, 0, 0, 0, \frac{203}{2549}\sqrt{22}e^{12}, \frac{87}{2549}\sqrt{70}e^{34}, \frac{29}{2549}\sqrt{634}e^{13} + \frac{174}{2549}\sqrt{2}e^{25}$	$(\frac{406}{2549}, -\frac{319}{2549}, \frac{203}{2549}, -\frac{638}{2549}, \frac{928}{2549}, \frac{87}{2549}, -\frac{435}{2549}, \frac{609}{2549})$ $+ \frac{29}{2549}\sqrt{1158}e^3 \otimes e_4 + \frac{58}{2549}\sqrt{354}e^5 \otimes e_6 + \frac{58}{2549}\sqrt{503}e^1 \otimes e_7$	{23678, 3578}
83:12	$0, 0, 0, 0, 0, \frac{9}{124}\sqrt{71}e^{12}, \frac{3}{62}\sqrt{213}e^{34}, \frac{1}{62}\sqrt{1349}e^{13} + \frac{9}{124}\sqrt{71}e^{25}$	$(\frac{37}{248}, \frac{43}{124}, \frac{5}{124}, -\frac{33}{124}, -\frac{39}{248}, \frac{123}{248}, -\frac{7}{31}, \frac{47}{248})$ $+ \frac{1}{124}\sqrt{14626}e^2 \otimes e_7$	{12348, 125, 135678, 1467, 23456, 268, 37, 4578}
83:12	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{15}e^{12}, \frac{16}{61}\sqrt{5}e^{34}, \frac{8}{61}\sqrt{10}e^{13} + \frac{8}{61}\sqrt{15}e^{25}$	$(\frac{4}{61}, \frac{20}{61}, \frac{10}{61}, -\frac{22}{61}, -\frac{6}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{14}{61})$ $+ \frac{8}{61}\sqrt{11}e^3 \otimes e_4 + \frac{8}{61}\sqrt{41}e^2 \otimes e_7$	{135678, 1467, 37, 4578}
83:12	$0, 0, 0, 0, 0, \frac{16}{307}\sqrt{106}e^{12}, \frac{16}{307}\sqrt{57}e^{34}, \frac{16}{307}\sqrt{19}e^{13} + \frac{16}{307}\sqrt{30}e^{25}$	$(\frac{65}{307}, \frac{76}{307}, -\frac{41}{307}, -\frac{22}{307}, -\frac{52}{307}, \frac{141}{307}, -\frac{63}{307}, \frac{24}{307})$ $+ \frac{16}{307}\sqrt{155}e^1 \otimes e_7 + \frac{48}{307}\sqrt{13}e^2 \otimes e_5$	{1234, 13456, 2467, 457}
83:12	$0, 0, 0, 0, 0, \frac{8}{1599}\sqrt{601}e^{12}, \frac{8}{1599}\sqrt{691}e^{34}, \frac{8}{1599}\sqrt{474}e^{13} + \frac{8}{533}\sqrt{30}e^{25}$	$(\frac{1}{123}, \frac{22}{533}, -\frac{77}{1599}, \frac{37}{533}, -\frac{10}{123}, \frac{79}{1599}, \frac{34}{1599}, -\frac{64}{1599})$ $+ \frac{8}{1599}\sqrt{662}e^4 \otimes e_6 + \frac{8}{1599}\sqrt{797}e^2 \otimes e_7$	{12348, 135678, 268, 4578}
83:12	$0, 0, 0, 0, 0, \frac{4}{443}\sqrt{3230}e^{12}, \frac{2}{443}\sqrt{8265}e^{34}, \frac{2}{443}\sqrt{285}e^{13} + \frac{8}{443}\sqrt{190}e^{25}$	$(\frac{125}{443}, -\frac{112}{443}, -\frac{34}{443}, -\frac{31}{443}, \frac{203}{443}, \frac{13}{443}, -\frac{65}{443}, \frac{91}{443})$ $+ \frac{2}{443}\sqrt{17005}e^5 \otimes e_6 + \frac{8}{443}\sqrt{1235}e^1 \otimes e_7$	{12345, 1346, 23678, 3578}
83:12	$0, 0, 0, 0, 0, \frac{8}{443}\sqrt{190}e^{12}, \frac{2}{443}\sqrt{8265}e^{34}, \frac{2}{443}\sqrt{285}e^{13} + \frac{4}{443}\sqrt{3230}e^{25}$	$(\frac{21}{443}, -\frac{112}{443}, -\frac{34}{443}, \frac{177}{443}, \frac{99}{443}, -\frac{91}{443}, \frac{143}{443}, -\frac{13}{443})$ $+ \frac{2}{443}\sqrt{17005}e^5 \otimes e_6 + \frac{8}{443}\sqrt{1235}e^4 \otimes e_8$	{12345, 1346, 23678, 3578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:12	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{10335}e^{12}, \frac{2}{527}\sqrt{9593}e^{34}, \frac{8}{527}\sqrt{53}e^{13} + \frac{2}{527}\sqrt{2226}e^{25}$	$(\frac{107}{527}, -\frac{100}{527}, -\frac{112}{527}, \frac{113}{527}, \frac{95}{527}, \frac{7}{527}, \frac{1}{527}, -\frac{5}{527})$ $+ \frac{2}{527}\sqrt{12349}e^1 \otimes e_7 + \frac{2}{527}\sqrt{12773}e^4 \otimes e_6$	{123458, 156, 2367, 478}
83:12	$0, 0, 0, 0, 0, \frac{156}{1123}\sqrt{5}e^{12}, \frac{52}{1123}\sqrt{110}e^{34},$ $\frac{104}{1123}\sqrt{10}e^{13} + \frac{52}{1123}\sqrt{95}e^{25}$	$(-\frac{13}{1123}, \frac{260}{1123}, -\frac{143}{1123}, \frac{520}{1123}, -\frac{416}{1123}, \frac{247}{1123}, \frac{377}{1123}, -\frac{156}{1123})$ $+ \frac{26}{1123}\sqrt{1166}e^4 \otimes e_8 + \frac{26}{1123}\sqrt{766}e^2 \otimes e_5$	{128, 1568, 23678, 3578}
83:12	$0, 0, 0, 0, 0, \frac{3}{404}\sqrt{1295}e^{12}, \frac{3}{202}\sqrt{305}e^{34}, \frac{3}{202}\sqrt{285}e^{13} + \frac{3}{404}\sqrt{1295}e^{25}$	$(\frac{47}{808}, -\frac{7}{404}, \frac{31}{404}, -\frac{83}{404}, \frac{123}{808}, \frac{33}{808}, -\frac{13}{101}, \frac{109}{808})$ $+ \frac{3}{101}\sqrt{95}e^5 \otimes e_6 + \frac{3}{404}\sqrt{2130}e^2 \otimes e_7$	{125, 1467, 268, 4578}
83:12	$0, 0, 0, 0, 0, \frac{3}{479}\sqrt{23246}e^{12}, \frac{2}{479}\sqrt{13002}e^{34},$ $\frac{1}{479}\sqrt{43734}e^{13} + \frac{3}{479}\sqrt{1970}e^{25}$	$(-\frac{45}{479}, \frac{317}{479}, \frac{88}{479}, \frac{51}{479}, -\frac{274}{479}, \frac{272}{479}, \frac{139}{479}, \frac{43}{479})$ $+ \frac{48}{479}\sqrt{197}e^2 \otimes e_5$	{12, 1247, 14567, 156, 2346, 2367, 345, 357}
83:12	$0, 0, 0, 0, 0, \frac{4}{499}\sqrt{2586}e^{12}, \frac{2}{499}\sqrt{29739}e^{34},$ $\frac{1}{499}\sqrt{73270}e^{13} + \frac{2}{499}\sqrt{33187}e^{25}$	$(\frac{58}{499}, -\frac{11}{499}, -\frac{128}{499}, \frac{361}{499}, -\frac{59}{499}, \frac{47}{499}, \frac{233}{499}, -\frac{70}{499})$ $+ \frac{2}{499}\sqrt{87062}e^4 \otimes e_8$	{123456, 1268, 134, 158, 2378, 2457, 35678, 467}
83:12	$0, 0, 0, 0, 0, \frac{8}{313}\sqrt{339}e^{12}, \frac{3}{313}\sqrt{226}e^{34}, \frac{2}{313}\sqrt{5763}e^{13} + \frac{1}{313}\sqrt{9266}e^{25}$	$(-\frac{123}{626}, \frac{147}{313}, \frac{259}{626}, -\frac{193}{626}, -\frac{79}{313}, \frac{171}{626}, \frac{33}{313}, \frac{68}{313})$ $+ \frac{1}{313}\sqrt{62602}e^3 \otimes e_4 + \frac{2}{313}\sqrt{15481}e^2 \otimes e_5$	{123, 1356, 246, 45}
83:12	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{58}e^{12}, \frac{4}{89}\sqrt{66}e^{34}, \frac{8}{89}\sqrt{5}e^{13} + \frac{8}{89}\sqrt{6}e^{25}$	$(-\frac{9}{89}, \frac{14}{89}, \frac{21}{89}, -\frac{23}{89}, -\frac{2}{89}, \frac{5}{89}, -\frac{2}{89}, \frac{12}{89})$ $+ \frac{12}{89}\sqrt{10}e^2 \otimes e_7 + \frac{8}{89}\sqrt{17}e^3 \otimes e_6$	{12348, 1467, 268, 37}
83:12	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{209}e^{12}, \frac{3}{115}\sqrt{266}e^{34}, \frac{1}{115}\sqrt{1558}e^{13} + \frac{2}{115}\sqrt{209}e^{25}$	$(-\frac{7}{46}, -\frac{8}{115}, \frac{5}{46}, \frac{33}{115}, \frac{3}{115}, -\frac{51}{230}, \frac{91}{230}, -\frac{1}{23})$ $+ \frac{1}{115}\sqrt{3838}e^3 \otimes e_6 + \frac{1}{115}\sqrt{3838}e^4 \otimes e_8$	{12345, 1568, 24567, 3578}
83:12	$0, 0, 0, 0, 0, \frac{2}{637}\sqrt{330}e^{12}, \frac{8}{637}\sqrt{30}e^{34}, \frac{10}{637}\sqrt{11}e^{13} + \frac{5}{637}\sqrt{82}e^{25}$	$(\frac{31}{637}, -\frac{17}{637}, -\frac{29}{637}, \frac{1}{91}, \frac{19}{637}, \frac{2}{91}, -\frac{22}{637}, \frac{2}{637})$ $+ \frac{1}{637}\sqrt{2670}e^2 \otimes e_7 + \frac{2}{637}\sqrt{365}e^4 \otimes e_8 + \frac{3}{637}\sqrt{190}e^5 \otimes e_6$	{1467, 268}
83:12	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{33187}e^{12}, \frac{2}{499}\sqrt{29739}e^{34},$ $\frac{1}{499}\sqrt{73270}e^{13} + \frac{2}{499}\sqrt{2586}e^{25}$	$(-\frac{144}{499}, -\frac{11}{499}, \frac{276}{499}, -\frac{43}{499}, \frac{143}{499}, -\frac{155}{499}, \frac{233}{499}, \frac{132}{499})$ $+ \frac{2}{499}\sqrt{87062}e^3 \otimes e_6$	{1234, 1237, 14678, 168, 2467, 26, 348, 378}
83:12	$0, 0, 0, 0, 0, \frac{102}{2921}\sqrt{3}e^{12}, \frac{51}{2921}\sqrt{210}e^{34},$ $\frac{34}{2921}\sqrt{43}e^{13} + \frac{34}{2921}\sqrt{349}e^{25}$	$(\frac{119}{2921}, -\frac{493}{2921}, -\frac{85}{2921}, \frac{323}{2921}, \frac{527}{2921}, -\frac{374}{2921}, \frac{238}{2921}, \frac{34}{2921})$ $+ \frac{17}{2921}\sqrt{1374}e^3 \otimes e_6 + \frac{17}{2921}\sqrt{2018}e^4 \otimes e_8 + \frac{34}{2921}\sqrt{483}e^5 \otimes e_7$	{12345, 1568}
83:12	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{12}, \frac{4}{115}\sqrt{143}e^{34}, \frac{3}{115}\sqrt{1430}e^{13} + \frac{2}{115}\sqrt{429}e^{25}$	$(-\frac{18}{115}, \frac{33}{115}, \frac{78}{115}, -\frac{13}{23}, \frac{27}{115}, \frac{3}{115}, \frac{13}{115}, \frac{12}{23})$ $+ \frac{2}{115}\sqrt{6721}e^3 \otimes e_4$	{1236, 124568, 135, 148, 2358, 24, 368, 456}
83:12	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{2442}e^{12}, \frac{14}{487}\sqrt{814}e^{34},$ $\frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{160358}e^{25}$	$(\frac{191}{487}, -\frac{107}{487}, -\frac{8}{487}, -\frac{109}{487}, \frac{290}{487}, \frac{84}{487}, -\frac{117}{487}, \frac{183}{487})$ $+ \frac{20}{487}\sqrt{814}e^5 \otimes e_7$	{123678, 1256, 13458, 147, 2345, 2478, 367, 568}
83:12	$0, 0, 0, 0, 0, \frac{4}{197}\sqrt{710}e^{12}, \frac{2}{197}\sqrt{1846}e^{34}, \frac{1}{197}\sqrt{4899}e^{13} + \frac{1}{197}\sqrt{1207}e^{25}$	$(-\frac{51}{394}, \frac{24}{197}, \frac{5}{394}, \frac{139}{394}, -\frac{47}{197}, -\frac{3}{394}, \frac{72}{197}, -\frac{23}{197})$ $+ \frac{1}{197}\sqrt{10721}e^2 \otimes e_5 + \frac{1}{197}\sqrt{14413}e^4 \otimes e_6$	{1247, 156, 2367, 345}
83:12	$0, 0, 0, 0, 0, \frac{16}{307}\sqrt{106}e^{12}, \frac{16}{307}\sqrt{57}e^{34}, \frac{16}{307}\sqrt{19}e^{13} + \frac{16}{307}\sqrt{30}e^{25}$	$(-\frac{90}{307}, \frac{76}{307}, \frac{114}{307}, -\frac{22}{307}, -\frac{52}{307}, -\frac{14}{307}, \frac{92}{307}, \frac{24}{307})$ $+ \frac{16}{307}\sqrt{155}e^3 \otimes e_6 + \frac{48}{307}\sqrt{13}e^2 \otimes e_5$	{1234, 1237, 2467, 26}
83:12	$0, 0, 0, 0, 0, \frac{10}{79}\sqrt{3}e^{12}, \frac{5}{79}\sqrt{70}e^{34}, \frac{10}{79}e^{13} + \frac{5}{79}\sqrt{74}e^{25}$	$(\frac{25}{158}, -\frac{5}{79}, \frac{35}{158}, -\frac{65}{158}, \frac{35}{79}, \frac{15}{158}, -\frac{15}{79}, \frac{30}{79})$ $+ \frac{10}{79}\sqrt{43}e^5 \otimes e_7 + \frac{5}{79}\sqrt{102}e^3 \otimes e_4$	{124678, 137, 2378, 467}
83:12	$0, 0, 0, 0, 0, \frac{8}{143}\sqrt{21}e^{12}, \frac{36}{143}e^{34}, \frac{4}{143}\sqrt{87}e^{13} + \frac{8}{143}\sqrt{21}e^{25}$	$(\frac{17}{143}, -\frac{8}{143}, -\frac{4}{143}, -\frac{16}{143}, \frac{21}{143}, \frac{9}{143}, -\frac{20}{143}, \frac{1}{11})$ $+ \frac{2}{143}\sqrt{138}e^3 \otimes e_4 + \frac{2}{143}\sqrt{534}e^2 \otimes e_7 + \frac{4}{143}\sqrt{93}e^5 \otimes e_6$	{125, 268}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:12	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{7}e^{12}, \frac{2}{41}\sqrt{105}e^{34}, \frac{14}{41}\sqrt{3}e^{13} + \frac{12}{41}\sqrt{7}e^{25}$	$(\frac{3}{41}, -\frac{16}{41}, \frac{10}{41}, \frac{3}{41}, \frac{29}{41}, -\frac{13}{41}, \frac{13}{41}, \frac{13}{41})$ $+ \frac{6}{41}\sqrt{77}e^5 \otimes e_6$	{12457, 125, 1467, 16, 24678, 268, 4578, 58}
83:12	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{2226}e^{12}, \frac{2}{527}\sqrt{9593}e^{34}, \frac{8}{527}\sqrt{53}e^{13} + \frac{2}{527}\sqrt{10335}e^{25}$	$(\frac{111}{527}, -\frac{100}{527}, -\frac{112}{527}, \frac{105}{527}, \frac{99}{527}, \frac{11}{527}, -\frac{7}{527}, -\frac{1}{527})$ $+ \frac{2}{527}\sqrt{12349}e^4 \otimes e_8 + \frac{2}{527}\sqrt{12773}e^5 \otimes e_7$	{123678, 147, 2345, 568}
83:12	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{33187}e^{12}, \frac{2}{499}\sqrt{29739}e^{34},$ $\frac{1}{499}\sqrt{73270}e^{13} + \frac{4}{499}\sqrt{2586}e^{25}$	$(\frac{260}{499}, -\frac{11}{499}, -\frac{128}{499}, -\frac{43}{499}, \frac{143}{499}, \frac{249}{499}, -\frac{171}{499}, \frac{132}{499})$ $+ \frac{2}{499}\sqrt{87062}e^1 \otimes e_7$	{1234, 1258, 13456, 168, 235678, 2467, 378, 457}
83:12	$0, 0, 0, 0, 0, \frac{3}{272}\sqrt{1533}e^{12}, \frac{3}{272}\sqrt{210}e^{34}, \frac{63}{272}\sqrt{2}e^{13} + \frac{3}{272}\sqrt{1533}e^{25}$	$(-\frac{43}{544}, -\frac{37}{272}, \frac{115}{272}, -\frac{37}{136}, \frac{261}{544}, -\frac{117}{544}, \frac{41}{272}, \frac{11}{32})$ $+ \frac{3}{272}\sqrt{5502}e^5 \otimes e_6 + \frac{63}{272}\sqrt{10}e^3 \otimes e_4$	{12357, 1367, 23678, 3578}
83:12	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{51}e^{12}, \frac{1}{19}\sqrt{39}e^{34}, \frac{4}{19}\sqrt{6}e^{13} + \frac{6}{19}e^{25}$	$(\frac{11}{57}, \frac{4}{57}, \frac{11}{114}, -\frac{43}{114}, \frac{25}{114}, \frac{5}{19}, -\frac{16}{57}, \frac{11}{38})$ $+ \frac{1}{19}\sqrt{129}e^3 \otimes e_4 + \frac{1}{19}\sqrt{174}e^1 \otimes e_7$	{235678, 2467, 378, 457}
83:12	$0, 0, 0, 0, 0, \frac{8}{89}\sqrt{6}e^{12}, \frac{4}{89}\sqrt{66}e^{34}, \frac{8}{89}\sqrt{5}e^{13} + \frac{4}{89}\sqrt{58}e^{25}$	$(\frac{8}{89}, \frac{14}{89}, -\frac{13}{89}, \frac{11}{89}, -\frac{19}{89}, \frac{22}{89}, -\frac{2}{89}, -\frac{5}{89})$ $+ \frac{12}{89}\sqrt{10}e^2 \otimes e_7 + \frac{8}{89}\sqrt{17}e^4 \otimes e_8$	{135678, 1467, 23456, 268}
83:12	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{160358}e^{12}, \frac{14}{487}\sqrt{814}e^{34},$ $\frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{2442}e^{25}$	$(-\frac{9}{487}, -\frac{107}{487}, -\frac{8}{487}, \frac{291}{487}, \frac{90}{487}, -\frac{116}{487}, \frac{283}{487}, -\frac{17}{487})$ $+ \frac{20}{487}\sqrt{814}e^4 \otimes e_6$	{123458, 1247, 13678, 156, 2367, 2568, 345, 478}
83:12	$0, 0, 0, 0, 0, \frac{4}{1167}\sqrt{9686}e^{12}, \frac{80}{1167}\sqrt{58}e^{34},$ $\frac{4}{1167}\sqrt{1914}e^{13} + \frac{4}{1167}\sqrt{2581}e^{25}$	$(\frac{13}{1167}, -\frac{66}{389}, \frac{93}{389}, -\frac{253}{1167}, \frac{490}{1167}, -\frac{185}{1167}, \frac{26}{1167}, \frac{292}{1167})$ $+ \frac{4}{1167}\sqrt{28942}e^3 \otimes e_6 + \frac{4}{1167}\sqrt{30218}e^5 \otimes e_7$	{12378, 1467, 24678, 37}
83:12	$0, 0, 0, 0, 0, \frac{2}{447}\sqrt{4189}e^{12}, \frac{2}{447}\sqrt{3599}e^{34}, \frac{3}{149}\sqrt{118}e^{13} + \frac{2}{447}\sqrt{1770}e^{25}$	$(\frac{22}{447}, -\frac{13}{149}, \frac{14}{149}, -\frac{79}{447}, \frac{103}{447}, -\frac{17}{447}, -\frac{37}{447}, \frac{64}{447})$ $+ \frac{2}{447}\sqrt{5959}e^1 \otimes e_7 + \frac{2}{447}\sqrt{5959}e^3 \otimes e_6$	{1234, 168, 2467, 378}
83:12	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{3}{10}e^{34}, \frac{1}{10}\sqrt{3}e^{13} + \frac{1}{10}\sqrt{6}e^{25}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{10}e^5 \otimes e_6 + \frac{1}{10}\sqrt{13}e^1 \otimes e_7 - \frac{1}{10}\sqrt{13}e^4 \otimes e_8$	{12345, 1346, 23678, 3578}
83:12	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{3}{10}e^{34}, \frac{1}{10}\sqrt{3}e^{13} + \frac{1}{10}\sqrt{6}e^{25}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{10}e^5 \otimes e_6 + \frac{1}{10}\sqrt{13}e^1 \otimes e_7 + \frac{1}{10}\sqrt{13}e^4 \otimes e_8$	{12345, 1346, 23678, 3578}
83:13	$0, 0, 0, 0, 0, \frac{1}{80}\sqrt{4345}e^{12}, \frac{1}{40}\sqrt{474}e^{14} + \frac{1}{40}\sqrt{237}e^{23},$ $\frac{1}{80}\sqrt{4345}e^{13} + \frac{1}{40}\sqrt{474}e^{25}$	$(\frac{37}{80}, \frac{7}{160}, -\frac{17}{160}, -\frac{21}{16}, \frac{5}{16}, \frac{81}{160}, -\frac{1}{16}, \frac{57}{160})$ $+ \frac{1}{80}\sqrt{10586}e^1 \otimes e_4$	{1258, 1356, 246, 348}
83:13	$0, 0, 0, 0, 0, \frac{11}{293}\sqrt{214}e^{12}, \frac{66}{293}\sqrt{3}e^{14} + \frac{44}{293}\sqrt{5}e^{23},$ $\frac{44}{293}\sqrt{5}e^{13} + \frac{66}{293}\sqrt{3}e^{25}$	$(\frac{66}{293}, \frac{66}{293}, -\frac{55}{293}, -\frac{55}{293}, -\frac{55}{293}, \frac{132}{293}, \frac{11}{293}, \frac{11}{293})$ $+ \frac{22}{293}\sqrt{67}e^1 \otimes e_4 + \frac{22}{293}\sqrt{67}e^2 \otimes e_5$	{123, 45}
83:13	$0, 0, 0, 0, 0, \frac{5}{61}\sqrt{6}e^{12}, \frac{2}{61}\sqrt{65}e^{14} + \frac{1}{61}\sqrt{10}e^{23},$ $\frac{1}{61}\sqrt{10}e^{13} + \frac{2}{61}\sqrt{65}e^{25}$	$(-\frac{5}{61}, -\frac{5}{61}, \frac{7}{61}, \frac{7}{61}, \frac{7}{61}, -\frac{10}{61}, \frac{2}{61}, \frac{2}{61})$ $+ \frac{2}{61}\sqrt{70}e^4 \otimes e_8 + \frac{2}{61}\sqrt{70}e^5 \otimes e_7$	{123678, 12456}
83:13	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{33}e^{12}, \frac{1}{8}\sqrt{6}e^{14} + \frac{1}{8}\sqrt{3}e^{23},$ $\frac{1}{16}\sqrt{33}e^{13} + \frac{1}{8}\sqrt{6}e^{25}$	$(\frac{1}{16}, -\frac{5}{32}, \frac{3}{32}, -\frac{1}{8}, \frac{5}{16}, -\frac{3}{32}, -\frac{1}{16}, \frac{5}{32})$ $+ \frac{1}{16}\sqrt{42}e^1 \otimes e_4 + \frac{1}{4}\sqrt{3}e^3 \otimes e_6$	{123, 168}
83:13	$0, 0, 0, 0, 0, \frac{6}{83}\sqrt{55}e^{12}, \frac{2}{83}\sqrt{935}e^{14} + \frac{6}{83}\sqrt{55}e^{23},$ $\frac{1}{83}\sqrt{1870}e^{13} + \frac{2}{83}\sqrt{935}e^{25}$	$(-\frac{20}{83}, \frac{15}{83}, \frac{14}{83}, \frac{49}{83}, -\frac{21}{83}, -\frac{5}{83}, \frac{29}{83}, -\frac{6}{83})$ $+ \frac{10}{83}\sqrt{77}e^4 \otimes e_8$	{134, 1578, 3568, 467}
83:13	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{3}e^{12}, \frac{1}{5}\sqrt{10}e^{14} + \frac{2}{5}\sqrt{3}e^{23},$ $\frac{2}{5}\sqrt{3}e^{13} + \frac{1}{5}\sqrt{10}e^{25}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{2}{5}, \frac{2}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{5}\sqrt{34}e^3 \otimes e_6$	{123, 168, 378}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:13	$0, 0, 0, 0, 0, \frac{29}{2369}\sqrt{78}e^{12}, \frac{58}{2369}\sqrt{451}e^{14} + \frac{29}{2369}\sqrt{334}e^{23},$ $\frac{29}{2369}\sqrt{930}e^{13} + \frac{58}{2369}\sqrt{309}e^{25}$	$(-\frac{145}{2369}, -\frac{493}{2369}, \frac{551}{2369}, \frac{203}{2369}, \frac{899}{2369}, -\frac{638}{2369}, \frac{58}{2369}, \frac{406}{2369})$ $+ \frac{116}{2369}\sqrt{158}e^5 \otimes e_7 + \frac{58}{2369}\sqrt{426}e^4 \otimes e_6$	{2478, 568}
83:13	$0, 0, 0, 0, 0, \frac{1}{249}\sqrt{37522}e^{12}, \frac{2}{249}\sqrt{10023}e^{14} + \frac{1}{249}\sqrt{14906}e^{23},$ $\frac{1}{249}\sqrt{14906}e^{13} + \frac{2}{249}\sqrt{1285}e^{25}$	$(-\frac{77}{249}, -\frac{3}{83}, \frac{103}{249}, \frac{57}{83}, \frac{35}{249}, -\frac{86}{249}, \frac{94}{249}, \frac{26}{249})$ $+ \frac{2}{249}\sqrt{26214}e^4 \otimes e_6$	{1245, 167, 268, 4578}
83:13	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{30}e^{12}, \frac{8}{79}\sqrt{30}e^{14} + \frac{8}{79}\sqrt{15}e^{23},$ $\frac{4}{79}\sqrt{30}e^{13} + \frac{8}{79}\sqrt{30}e^{25}$	$(\frac{20}{79}, -\frac{14}{79}, \frac{6}{79}, -\frac{28}{79}, \frac{40}{79}, \frac{6}{79}, -\frac{8}{79}, \frac{26}{79})$ $+ \frac{28}{79}\sqrt{6}e^5 \otimes e_7 + \frac{4}{79}\sqrt{114}e^1 \otimes e_4$	{2478, 3467}
83:13	$0, 0, 0, 0, 0, \frac{25}{371}\sqrt{70}e^{12}, \frac{10}{371}\sqrt{105}e^{14} + \frac{10}{53}\sqrt{3}e^{23},$ $\frac{10}{371}\sqrt{154}e^{13} + \frac{20}{371}\sqrt{21}e^{25}$	$(\frac{10}{53}, -\frac{10}{53}, \frac{5}{53}, -\frac{15}{53}, \frac{25}{53}, 0, -\frac{5}{53}, \frac{15}{53})$ $+ \frac{10}{371}\sqrt{602}e^1 \otimes e_4 + \frac{90}{371}\sqrt{7}e^5 \otimes e_6$	{136, 3458}
83:14	$0, 0, 0, 0, 0, \frac{84}{383}\sqrt{5}e^{12}, \frac{28}{383}\sqrt{35}e^{14} + \frac{84}{383}\sqrt{5}e^{23},$ $\frac{28}{383}\sqrt{15}e^{13} + \frac{56}{383}\sqrt{15}e^{45}$	$(\frac{7}{383}, \frac{140}{383}, -\frac{63}{383}, \frac{70}{383}, -\frac{126}{383}, \frac{147}{383}, \frac{77}{383}, -\frac{56}{383})$ $+ \frac{14}{383}\sqrt{526}e^2 \otimes e_8 + \frac{42}{383}\sqrt{14}e^4 \otimes e_5$	{1568, 3578}
83:14	$0, 0, 0, 0, 0, \frac{2}{247}\sqrt{1842}e^{12}, \frac{1}{247}\sqrt{59558}e^{14} + \frac{2}{247}\sqrt{1842}e^{23},$ $\frac{2}{247}\sqrt{614}e^{13} + \frac{4}{247}\sqrt{614}e^{45}$	$(-\frac{36}{247}, \frac{69}{247}, \frac{61}{247}, \frac{166}{247}, \frac{141}{247}, \frac{33}{247}, \frac{10}{19}, \frac{25}{247})$ $+ \frac{2}{247}\sqrt{31007}e^4 \otimes e_5$	{1246, 157, 2347, 356}
83:14	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{66}e^{12}, \frac{11}{29}\sqrt{2}e^{14} + \frac{1}{29}\sqrt{462}e^{23},$ $\frac{1}{29}\sqrt{286}e^{13} + \frac{2}{29}\sqrt{110}e^{45}$	$(\frac{15}{58}, -\frac{4}{29}, \frac{1}{29}, -\frac{21}{58}, \frac{19}{29}, \frac{7}{58}, -\frac{3}{29}, \frac{17}{58})$ $+ \frac{4}{29}\sqrt{66}e^5 \otimes e_7$	{1267, 145, 2478, 568}
83:14	$0, 0, 0, 0, 0, \frac{72}{263}\sqrt{6}e^{12}, \frac{90}{263}\sqrt{3}e^{14} + \frac{72}{263}\sqrt{6}e^{23},$ $\frac{27}{263}\sqrt{38}e^{13} + \frac{18}{263}\sqrt{21}e^{45}$	$(-\frac{22}{263}, -\frac{79}{263}, \frac{142}{263}, \frac{85}{263}, \frac{35}{263}, -\frac{101}{263}, \frac{63}{263}, \frac{120}{263})$ $+ \frac{18}{263}\sqrt{321}e^3 \otimes e_6$	{123, 1568, 267, 3578}
83:14	$0, 0, 0, 0, 0, \frac{7}{281}\sqrt{190}e^{12}, \frac{14}{281}\sqrt{14}e^{14} + \frac{7}{281}\sqrt{78}e^{23},$ $\frac{7}{281}\sqrt{30}e^{13} + \frac{42}{281}\sqrt{6}e^{45}$	$(-\frac{21}{281}, \frac{35}{281}, \frac{7}{281}, \frac{63}{281}, -\frac{77}{281}, \frac{14}{281}, \frac{42}{281}, -\frac{14}{281})$ $+ \frac{14}{281}\sqrt{69}e^2 \otimes e_8 + \frac{28}{281}\sqrt{14}e^4 \otimes e_6$	{12457, 48}
83:14	$0, 0, 0, 0, 0, \frac{21}{89}\sqrt{6}e^{12}, \frac{14}{89}\sqrt{14}e^{14} + \frac{21}{89}\sqrt{6}e^{23},$ $\frac{21}{89}\sqrt{2}e^{13} + \frac{42}{89}\sqrt{2}e^{45}$	$(\frac{7}{89}, \frac{35}{89}, -\frac{21}{89}, \frac{7}{89}, -\frac{21}{89}, \frac{42}{89}, \frac{14}{89}, -\frac{14}{89})$ $+ \frac{14}{89}\sqrt{37}e^2 \otimes e_8$	{123, 1568, 267, 3578}
83:14	$0, 0, 0, 0, 0, \frac{31}{2249}\sqrt{330}e^{12}, \frac{248}{2249}e^{14} + \frac{31}{2249}\sqrt{1414}e^{23},$ $\frac{31}{2249}\sqrt{138}e^{13} + \frac{186}{2249}\sqrt{26}e^{45}$	$(\frac{155}{2249}, -\frac{589}{2249}, \frac{527}{2249}, -\frac{217}{2249}, \frac{899}{2249}, -\frac{434}{2249}, -\frac{62}{2249}, \frac{682}{2249})$ $+ \frac{1302}{2249}e^3 \otimes e_6 + \frac{62}{2249}\sqrt{542}e^5 \otimes e_7$	{1456, 24678}
83:14	$0, 0, 0, 0, 0, \frac{63}{857}\sqrt{6}e^{12}, \frac{42}{857}\sqrt{14}e^{14} + \frac{63}{857}\sqrt{6}e^{23},$ $\frac{7}{857}\sqrt{274}e^{13} + \frac{14}{857}\sqrt{106}e^{45}$	$(-\frac{49}{857}, \frac{35}{857}, \frac{35}{857}, \frac{119}{857}, -\frac{133}{857}, -\frac{14}{857}, \frac{70}{857}, -\frac{14}{857})$ $+ \frac{14}{857}\sqrt{221}e^2 \otimes e_8 - \frac{28}{857}\sqrt{42}e^3 \otimes e_6$	{123, 1568, 267, 3578}
83:14	$0, 0, 0, 0, 0, \frac{63}{857}\sqrt{6}e^{12}, \frac{42}{857}\sqrt{14}e^{14} + \frac{63}{857}\sqrt{6}e^{23},$ $\frac{7}{857}\sqrt{274}e^{13} + \frac{14}{857}\sqrt{106}e^{45}$	$(-\frac{49}{857}, \frac{35}{857}, \frac{35}{857}, \frac{119}{857}, -\frac{133}{857}, -\frac{14}{857}, \frac{70}{857}, -\frac{14}{857})$ $+ \frac{14}{857}\sqrt{221}e^2 \otimes e_8 + \frac{28}{857}\sqrt{42}e^3 \otimes e_6$	{123, 1568, 267, 3578}
83:14	$0, 0, 0, 0, 0, \frac{7}{3161}\sqrt{2454}e^{12}, \frac{14}{3161}\sqrt{462}e^{14} + \frac{7}{3161}\sqrt{1110}e^{23},$ $\frac{7}{3161}\sqrt{302}e^{13} + \frac{14}{3161}\sqrt{706}e^{45}$	$(\frac{119}{3161}, \frac{35}{3161}, -\frac{133}{3161}, -\frac{217}{3161}, \frac{7}{3161}, \frac{154}{3161}, -\frac{98}{3161}, -\frac{14}{3161})$ $+ \frac{14}{3161}\sqrt{773}e^2 \otimes e_8 + \frac{56}{3161}\sqrt{42}e^5 \otimes e_6$	{12457, 134678}
83:14	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{11194}e^{12}, \frac{1}{256}\sqrt{19493}e^{14} + \frac{3}{256}\sqrt{386}e^{23},$ $\frac{1}{256}\sqrt{19493}e^{13} + \frac{1}{256}\sqrt{45934}e^{45}$	$(\frac{27}{256}, -\frac{83}{256}, \frac{167}{512}, -\frac{53}{512}, \frac{137}{256}, -\frac{7}{32}, \frac{1}{512}, \frac{221}{512})$ $+ \frac{1}{128}\sqrt{20651}e^5 \otimes e_6$	{12358, 12457, 134678, 16}
83:14	$0, 0, 0, 0, 0, \frac{7}{281}\sqrt{78}e^{12}, \frac{14}{281}\sqrt{14}e^{14} + \frac{7}{281}\sqrt{190}e^{23},$ $\frac{7}{281}\sqrt{30}e^{13} + \frac{42}{281}\sqrt{6}e^{45}$	$(\frac{35}{281}, \frac{35}{281}, -\frac{49}{281}, -\frac{49}{281}, \frac{35}{281}, \frac{70}{281}, -\frac{14}{281}, -\frac{14}{281})$ $+ \frac{14}{281}\sqrt{69}e^2 \otimes e_8 + \frac{28}{281}\sqrt{14}e^5 \otimes e_7$	{134678, 23456}
83:14	$0, 0, 0, 0, 0, \frac{19}{544}\sqrt{129}e^{12}, \frac{95}{544}\sqrt{2}e^{14} + \frac{19}{544}\sqrt{129}e^{23},$ $\frac{19}{272}\sqrt{34}e^{13} + \frac{19}{544}\sqrt{14}e^{45}$	$(-\frac{171}{1088}, -\frac{57}{544}, \frac{437}{1088}, \frac{247}{544}, -\frac{57}{272}, -\frac{285}{1088}, \frac{19}{64}, \frac{133}{544})$ $+ \frac{19}{544}\sqrt{386}e^4 \otimes e_5 + \frac{57}{544}\sqrt{62}e^3 \otimes e_6$	{1234, 2467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:14	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{462}e^{12}, \frac{11}{29}\sqrt{2}e^{14} + \frac{1}{29}\sqrt{66}e^{23},$ $\frac{1}{29}\sqrt{286}e^{13} + \frac{2}{29}\sqrt{110}e^{45}$	$(-\frac{9}{58}, -\frac{4}{29}, \frac{13}{29}, \frac{27}{58}, -\frac{5}{29}, -\frac{17}{58}, \frac{9}{29}, \frac{17}{58})$ $+ \frac{4}{29}\sqrt{66}e^4 \otimes e_6$	{1245, 167, 2568, 478}
83:15	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{2}e^{13} + \frac{1}{2}\sqrt{2}e^{24}, \frac{1}{2}\sqrt{2}e^{15} + \frac{1}{4}\sqrt{6}e^{34}$	$(-\frac{1}{4}, 0, \frac{1}{4}, 0, \frac{1}{2}, -\frac{1}{4}, 0, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{14}e^5 \otimes e_7$	{12678, 135, 237, 568}
83:15	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{11}e^{12}, \frac{2}{35}\sqrt{110}e^{13} + \frac{6}{35}\sqrt{11}e^{24},$ $\frac{6}{35}\sqrt{11}e^{15} + \frac{6}{35}\sqrt{11}e^{34}$	$(-\frac{2}{35}, \frac{17}{35}, \frac{1}{5}, -\frac{12}{35}, -\frac{3}{35}, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{2}{35}\sqrt{319}e^2 \otimes e_8$	{2346, 267, 358, 4578}
83:15	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{11}e^{12}, \frac{1}{10}\sqrt{10}e^{13} + \frac{1}{10}\sqrt{6}e^{24},$ $\frac{1}{10}\sqrt{11}e^{15} + \frac{1}{10}\sqrt{6}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $- \frac{1}{10}\sqrt{15}e^5 \otimes e_6 + \frac{1}{10}\sqrt{21}e^2 \otimes e_8$	{2346, 267, 358, 4578}
83:15	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{11}e^{12}, \frac{1}{10}\sqrt{10}e^{13} + \frac{1}{10}\sqrt{6}e^{24},$ $\frac{1}{10}\sqrt{11}e^{15} + \frac{1}{10}\sqrt{6}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{15}e^5 \otimes e_6 + \frac{1}{10}\sqrt{21}e^2 \otimes e_8$	{2346, 267, 358, 4578}
83:15	$0, 0, 0, 0, 0, \frac{1}{74}\sqrt{3869}e^{12}, \frac{1}{74}\sqrt{3431}e^{13} + \frac{1}{74}\sqrt{2117}e^{24},$ $\frac{1}{74}\sqrt{2117}e^{15} + \frac{1}{37}\sqrt{219}e^{34}$	$(\frac{77}{148}, \frac{1}{148}, -\frac{17}{74}, \frac{21}{74}, -\frac{69}{148}, \frac{39}{74}, \frac{43}{148}, \frac{2}{37})$ $+ \frac{1}{74}\sqrt{8979}e^1 \otimes e_5$	{1346, 167, 234567, 256}
83:15	$0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{2}e^{13} + \frac{1}{4}\sqrt{6}e^{24}, \frac{1}{4}\sqrt{6}e^{15} + \frac{1}{2}\sqrt{2}e^{34}$	$(-\frac{1}{4}, 0, \frac{1}{4}, 0, \frac{1}{2}, -\frac{1}{4}, 0, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{14}e^3 \otimes e_6$	{12358, 167, 256, 378}
83:15	$0, 0, 0, 0, 0, \frac{2}{329}\sqrt{57}e^{12}, \frac{2}{329}\sqrt{47}e^{13} + \frac{1}{329}\sqrt{130}e^{24},$ $\frac{4}{329}\sqrt{2}e^{15} + \frac{2}{329}\sqrt{57}e^{34}$	$(-\frac{9}{329}, \frac{3}{329}, \frac{1}{47}, -\frac{5}{329}, \frac{11}{329}, -\frac{6}{329}, -\frac{2}{329}, \frac{2}{329})$ $+ \frac{1}{329}\sqrt{310}e^2 \otimes e_8 + \frac{1}{47}\sqrt{6}e^4 \otimes e_6$	{267, 4578}
83:15	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{2}e^{12}, \frac{1}{77}\sqrt{46}e^{13} + \frac{3}{77}\sqrt{6}e^{24},$ $\frac{3}{77}\sqrt{6}e^{15} + \frac{2}{77}\sqrt{13}e^{34}$	$(\frac{2}{77}, -\frac{5}{77}, -\frac{2}{77}, \frac{5}{77}, \frac{1}{77}, -\frac{3}{77}, 0, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{86}e^3 \otimes e_6 + \frac{2}{77}\sqrt{15}e^1 \otimes e_5$	{167, 256}
83:15	$0, 0, 0, 0, 0, \frac{10}{61}\sqrt{22}e^{12}, \frac{2}{61}\sqrt{286}e^{13} + \frac{8}{61}\sqrt{11}e^{24},$ $\frac{6}{61}\sqrt{22}e^{15} + \frac{10}{61}\sqrt{22}e^{34}$	$(\frac{7}{61}, -\frac{23}{61}, -\frac{2}{61}, \frac{28}{61}, \frac{19}{61}, -\frac{16}{61}, \frac{5}{61}, \frac{26}{61})$ $+ \frac{2}{61}\sqrt{1122}e^4 \otimes e_6$	{12458, 16, 2567, 478}
83:15	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{5}e^{12}, \frac{2}{7}e^{13} + \frac{4}{7}e^{24}, \frac{2}{7}\sqrt{3}e^{15} + \frac{1}{7}\sqrt{5}e^{34}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{7}, 0, \frac{2}{7})$ $+ \frac{2}{7}\sqrt{3}e^4 \otimes e_6 + \frac{5}{7}e^5 \otimes e_7$	{12678, 568}
83:15	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{434}e^{12}, \frac{2}{77}\sqrt{14}e^{13} + \frac{4}{77}\sqrt{7}e^{24},$ $\frac{2}{77}\sqrt{210}e^{15} + \frac{2}{11}\sqrt{6}e^{34}$	$(\frac{3}{11}, -\frac{3}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{1}{11}, 0, \frac{1}{11}, \frac{2}{11})$ $+ \frac{2}{77}\sqrt{546}e^4 \otimes e_6 + \frac{4}{77}\sqrt{105}e^1 \otimes e_5$	{167, 256}
83:15	$0, 0, 0, 0, 0, \frac{2}{307}\sqrt{14018}e^{12}, \frac{4}{307}\sqrt{1630}e^{13} + \frac{2}{307}\sqrt{489}e^{24},$ $\frac{2}{307}\sqrt{14018}e^{15} + \frac{2}{307}\sqrt{489}e^{34}$	$(-\frac{74}{307}, -\frac{31}{307}, \frac{95}{307}, \frac{52}{307}, \frac{221}{307}, -\frac{105}{307}, \frac{21}{307}, \frac{147}{307})$ $+ \frac{2}{307}\sqrt{40587}e^5 \otimes e_6$	{2346, 267, 358, 4578}
83:15	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{114}e^{12}, \frac{2}{21}\sqrt{6}e^{13} + \frac{1}{21}\sqrt{30}e^{24},$ $\frac{1}{21}\sqrt{30}e^{15} + \frac{2}{7}\sqrt{2}e^{34}$	$(\frac{1}{7}, \frac{2}{7}, 0, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{7}\sqrt{14}e^1 \otimes e_5 + \frac{2}{21}\sqrt{51}e^2 \otimes e_8$	{358, 4578}
83:16	$0, 0, 0, 0, 0, \frac{5}{64}\sqrt{38}e^{13} + \frac{5}{64}\sqrt{51}e^{24}, -\frac{5}{64}\sqrt{38}e^{12} + \frac{5}{64}\sqrt{51}e^{34},$ $\frac{5}{32}\sqrt{17}e^{15}$	$(\frac{13}{64}, \frac{5}{128}, \frac{5}{128}, \frac{13}{64}, -\frac{25}{64}, \frac{31}{128}, \frac{31}{128}, -\frac{3}{16})$ $+ \frac{5}{64}\sqrt{110}e^4 \otimes e_8$	{123678, 12457, 18, 234, 2568, 467, 123678, 12457, 18, 234, 2568, 467}
83:16	$0, 0, 0, 0, 0, \frac{5}{64}\sqrt{38}e^{13} + \frac{5}{64}\sqrt{51}e^{24}, \frac{5}{64}\sqrt{38}e^{12} + \frac{5}{64}\sqrt{51}e^{34},$ $\frac{5}{32}\sqrt{17}e^{15}$	$(\frac{13}{64}, \frac{5}{128}, \frac{5}{128}, \frac{13}{64}, -\frac{25}{64}, \frac{31}{128}, \frac{31}{128}, -\frac{3}{16})$ $+ \frac{5}{64}\sqrt{110}e^4 \otimes e_8$	{123678, 12457, 18, 234, 2568, 467, 123678, 12457, 18, 234, 2568, 467}
83:16	$0, 0, 0, 0, 0, \frac{1}{689}\sqrt{143}e^{13} + \frac{1}{689}\sqrt{547}e^{24}, -\frac{9}{689}\sqrt{5}e^{12} + \frac{1}{689}\sqrt{285}e^{34},$ $\frac{1}{689}\sqrt{642}e^{15}$	$(\frac{11}{689}, -\frac{1}{53}, -\frac{1}{53}, \frac{11}{689}, -\frac{2}{689}, -\frac{2}{689}, -\frac{2}{689}, \frac{10}{689})$ $+ \frac{2}{689}\sqrt{131}e^5 \otimes e_6 + \frac{3}{689}\sqrt{82}e^4 \otimes e_8$	{123678, 12457, 3578, 467, 123678, 12457, 3578, 467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:16	$0, 0, 0, 0, 0, \frac{1}{689}\sqrt{143}e^{13} + \frac{1}{689}\sqrt{547}e^{24}, \frac{9}{689}\sqrt{5}e^{12} + \frac{1}{689}\sqrt{285}e^{34},$ $\frac{1}{689}\sqrt{642}e^{15}$	$(\frac{11}{689}, -\frac{1}{53}, -\frac{1}{53}, \frac{11}{689}, -\frac{1}{689}, -\frac{2}{689}, -\frac{2}{689}, \frac{10}{689})$ $+ \frac{2}{689}\sqrt{131}e^5 \otimes e_6 + \frac{3}{689}\sqrt{82}e^4 \otimes e_8$	{123678, 12457, 3578, 467, 123678, 12457, 3578, 467}
83:16	$0, 0, 0, 0, 0, \frac{11}{29}\sqrt{2}e^{13} + \frac{1}{29}\sqrt{462}e^{24}, -\frac{1}{29}\sqrt{286}e^{12} + \frac{1}{29}\sqrt{66}e^{34},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(-\frac{4}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{4}{29}, \frac{19}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{15}{29})$ $+ \frac{4}{29}\sqrt{66}e^5 \otimes e_6$	{123457, 12678, 135, 1468, 236, 2458, 3467, 578, 123457, 12678, 135, 1468, 236, 2458, 3467, 578}
83:16	$0, 0, 0, 0, 0, \frac{11}{29}\sqrt{2}e^{13} + \frac{1}{29}\sqrt{462}e^{24}, \frac{1}{29}\sqrt{286}e^{12} + \frac{1}{29}\sqrt{66}e^{34},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(-\frac{4}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{4}{29}, \frac{19}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{15}{29})$ $+ \frac{4}{29}\sqrt{66}e^5 \otimes e_6$	{123457, 12678, 135, 1468, 236, 2458, 3467, 578, 123457, 12678, 135, 1468, 236, 2458, 3467, 578}
83:16	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{285}e^{13} + \frac{1}{20}\sqrt{114}e^{24}, -\frac{1}{20}\sqrt{285}e^{12} + \frac{1}{20}\sqrt{114}e^{34},$ $\frac{1}{10}\sqrt{38}e^{15}$	$(\frac{9}{20}, -\frac{3}{40}, -\frac{3}{40}, \frac{9}{20}, -\frac{1}{2}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{20})$ $+ \frac{1}{20}\sqrt{646}e^1 \otimes e_5$	{123, 1246, 167, 234567, 257, 45, 123, 1246, 167, 234567, 257, 45}
83:16	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{285}e^{13} + \frac{1}{20}\sqrt{114}e^{24}, \frac{1}{20}\sqrt{285}e^{12} + \frac{1}{20}\sqrt{114}e^{34},$ $\frac{1}{10}\sqrt{38}e^{15}$	$(\frac{9}{20}, -\frac{3}{40}, -\frac{3}{40}, \frac{9}{20}, -\frac{1}{2}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{20})$ $+ \frac{1}{20}\sqrt{646}e^1 \otimes e_5$	{123, 1246, 167, 234567, 257, 45, 123, 1246, 167, 234567, 257, 45}
83:16	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{30}e^{13} + \frac{2}{17}\sqrt{30}e^{24}, -\frac{2}{17}\sqrt{30}e^{12} + \frac{2}{17}\sqrt{30}e^{34},$ $\frac{4}{17}\sqrt{10}e^{15}$	$(0, \frac{3}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17})$ $+ \frac{2}{17}\sqrt{26}e^1 \otimes e_5 + \frac{6}{17}\sqrt{6}e^4 \otimes e_8$	{12457, 234, 467, 12457, 234, 467}
83:16	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{30}e^{13} + \frac{2}{17}\sqrt{30}e^{24}, \frac{2}{17}\sqrt{30}e^{12} + \frac{2}{17}\sqrt{30}e^{34},$ $\frac{4}{17}\sqrt{10}e^{15}$	$(0, \frac{3}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17})$ $+ \frac{2}{17}\sqrt{26}e^1 \otimes e_5 + \frac{6}{17}\sqrt{6}e^4 \otimes e_8$	{12457, 234, 467, 12457, 234, 467}
83:16	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{13} + \frac{1}{29}\sqrt{462}e^{24}, -\frac{11}{29}\sqrt{2}e^{12} + \frac{1}{29}\sqrt{66}e^{34},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(-\frac{4}{29}, \frac{13}{29}, \frac{13}{29}, -\frac{4}{29}, -\frac{5}{29}, \frac{9}{29}, \frac{9}{29}, -\frac{9}{29})$ $+ \frac{4}{29}\sqrt{66}e^2 \otimes e_8$	{12356, 1245, 134678, 178, 2347, 267, 358, 4568, 12356, 1245, 134678, 178, 2347, 267, 358, 4568}
83:16	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{286}e^{13} + \frac{1}{29}\sqrt{462}e^{24}, \frac{11}{29}\sqrt{2}e^{12} + \frac{1}{29}\sqrt{66}e^{34},$ $\frac{2}{29}\sqrt{110}e^{15}$	$(-\frac{4}{29}, \frac{13}{29}, \frac{13}{29}, -\frac{4}{29}, -\frac{5}{29}, \frac{9}{29}, \frac{9}{29}, -\frac{9}{29})$ $+ \frac{4}{29}\sqrt{66}e^2 \otimes e_8$	{12356, 1245, 134678, 178, 2347, 267, 358, 4568, 12356, 1245, 134678, 178, 2347, 267, 358, 4568}
83:17	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{1}{17}\sqrt{19}e^{14} + \frac{3}{17}\sqrt{2}e^{35},$ $\frac{1}{17}\sqrt{19}e^{23} + \frac{3}{17}\sqrt{2}e^{45}$	$(-\frac{1}{17}, -\frac{1}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17})$ $+ \frac{1}{17}\sqrt{31}e^5 \otimes e_6$	{12358, 345, 578}
83:17	$0, 0, 0, 0, 0, \frac{6}{61}\sqrt{22}e^{12}, \frac{2}{61}\sqrt{374}e^{14} + \frac{4}{61}\sqrt{66}e^{35},$ $\frac{2}{61}\sqrt{374}e^{23} + \frac{2}{61}\sqrt{286}e^{45}$	$(\frac{35}{61}, -\frac{15}{61}, \frac{6}{61}, -\frac{19}{61}, \frac{10}{61}, \frac{20}{61}, \frac{16}{61}, -\frac{9}{61})$ $+ \frac{20}{61}\sqrt{11}e^1 \otimes e_8$	{1456, 167, 24678, 2568}
83:17	$0, 0, 0, 0, 0, \frac{7}{281}\sqrt{78}e^{12}, \frac{14}{281}\sqrt{41}e^{14} + \frac{14}{281}e^{35},$ $\frac{14}{281}\sqrt{41}e^{23} + \frac{14}{281}e^{45}$	$(\frac{35}{281}, \frac{35}{281}, -\frac{49}{281}, -\frac{49}{281}, \frac{35}{281}, \frac{70}{281}, -\frac{14}{281}, -\frac{14}{281})$ $+ \frac{35}{281}\sqrt{10}e^1 \otimes e_8 + \frac{35}{281}\sqrt{10}e^2 \otimes e_7$	{1234, 34578}
83:17	$0, 0, 0, 0, 0, \frac{114}{2849}\sqrt{39}e^{12}, \frac{19}{2849}\sqrt{1158}e^{14} + \frac{38}{2849}\sqrt{219}e^{35},$ $\frac{38}{2849}\sqrt{82}e^{23} + \frac{76}{2849}\sqrt{106}e^{45}$	$(\frac{323}{2849}, -\frac{589}{2849}, \frac{551}{2849}, \frac{95}{2849}, -\frac{19}{407}, -\frac{38}{407}, \frac{38}{259}, -\frac{38}{2849})$ $+ \frac{19}{2849}\sqrt{2490}e^4 \otimes e_6 + \frac{19}{2849}\sqrt{2654}e^1 \otimes e_8$	{167, 2568}
83:17	$0, 0, 0, 0, 0, \frac{6}{29}e^{12}, \frac{5}{29}e^{14} + \frac{2}{29}\sqrt{6}e^{35}, \frac{5}{29}e^{23} + \frac{2}{29}\sqrt{7}e^{45}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{1}{29}, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{2}{29}\sqrt{2}e^1 \otimes e_8 + \frac{3}{29}\sqrt{5}e^3 \otimes e_6$	{12457, 578}
83:17	$0, 0, 0, 0, 0, \frac{13}{521}\sqrt{255}e^{12}, \frac{13}{521}\sqrt{66}e^{14} + \frac{13}{521}\sqrt{66}e^{35},$ $\frac{13}{521}\sqrt{211}e^{23} + \frac{26}{521}\sqrt{22}e^{45}$	$(\frac{143}{521}, -\frac{169}{521}, \frac{143}{521}, -\frac{13}{521}, -\frac{13}{521}, -\frac{26}{521}, \frac{130}{521}, -\frac{26}{521})$ $- \frac{13}{521}\sqrt{435}e^3 \otimes e_6 + \frac{13}{521}\sqrt{479}e^1 \otimes e_8$	{12345, 1237, 3478, 358}
83:17	$0, 0, 0, 0, 0, \frac{13}{521}\sqrt{255}e^{12}, \frac{13}{521}\sqrt{66}e^{14} + \frac{13}{521}\sqrt{66}e^{35},$ $\frac{13}{521}\sqrt{211}e^{23} + \frac{26}{521}\sqrt{22}e^{45}$	$(\frac{143}{521}, -\frac{169}{521}, \frac{143}{521}, -\frac{13}{521}, -\frac{13}{521}, -\frac{26}{521}, \frac{130}{521}, -\frac{26}{521})$ $+ \frac{13}{521}\sqrt{435}e^3 \otimes e_6 + \frac{13}{521}\sqrt{479}e^1 \otimes e_8$	{12345, 1237, 3478, 358}
83:17	$0, 0, 0, 0, 0, \frac{2}{899}\sqrt{116022}e^{12}, \frac{2}{899}\sqrt{54534}e^{14} + \frac{12}{899}\sqrt{3355}e^{35},$ $\frac{2}{899}\sqrt{35502}e^{23} + \frac{6}{899}\sqrt{1586}e^{45}$	$(-\frac{7}{899}, -\frac{253}{899}, \frac{472}{899}, \frac{349}{899}, -\frac{130}{899}, -\frac{260}{899}, \frac{342}{899}, \frac{219}{899})$ $+ \frac{12}{899}\sqrt{7503}e^3 \otimes e_6$	{12347, 1235, 3458, 378}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
83:18	$0, 0, 0, 0, 0, \frac{152}{545}\sqrt{7}e^{14} - \frac{19}{545}\sqrt{226}e^{23}, \frac{57}{545}\sqrt{26}e^{13} + \frac{38}{545}\sqrt{3}e^{24},$ $\frac{57}{545}\sqrt{26}e^{12} + \frac{38}{545}\sqrt{111}e^{35}$	$(\frac{19}{109}, \frac{19}{109}, -\frac{133}{545}, -\frac{133}{545}, \frac{323}{545}, -\frac{38}{545}, -\frac{38}{545}, \frac{38}{109})$ $+ \frac{38}{545}\sqrt{230}e^5 \otimes e_6$	{235, 2467, 3468, 578, 235, 2467, 3468, 578}
83:18	$0, 0, 0, 0, 0, \frac{152}{545}\sqrt{7}e^{14} + \frac{19}{545}\sqrt{226}e^{23}, \frac{57}{545}\sqrt{26}e^{13} + \frac{38}{545}\sqrt{3}e^{24},$ $\frac{57}{545}\sqrt{26}e^{12} + \frac{38}{545}\sqrt{111}e^{35}$	$(\frac{19}{109}, \frac{19}{109}, -\frac{133}{545}, -\frac{133}{545}, \frac{323}{545}, -\frac{38}{545}, -\frac{38}{545}, \frac{38}{109})$ $+ \frac{38}{545}\sqrt{230}e^5 \otimes e_6$	{235, 2467, 3468, 578, 235, 2467, 3468, 578}
83:18	$0, 0, 0, 0, 0, \frac{33}{64}e^{14} - \frac{11}{128}\sqrt{97}e^{23}, \frac{11}{128}\sqrt{97}e^{13} + \frac{33}{64}e^{24},$ $\frac{11}{64}\sqrt{3}e^{12} + \frac{11}{32}\sqrt{3}e^{35}$	$(-\frac{11}{256}, -\frac{11}{256}, \frac{55}{128}, \frac{55}{128}, -\frac{33}{64}, \frac{99}{256}, \frac{99}{256}, -\frac{11}{128})$ $+ \frac{11}{128}\sqrt{218}e^3 \otimes e_5$	{1346, 157, 1346, 157}
83:18	$0, 0, 0, 0, 0, \frac{33}{64}e^{14} + \frac{11}{128}\sqrt{97}e^{23}, \frac{11}{128}\sqrt{97}e^{13} + \frac{33}{64}e^{24},$ $\frac{11}{64}\sqrt{3}e^{12} + \frac{11}{32}\sqrt{3}e^{35}$	$(-\frac{11}{256}, -\frac{11}{256}, \frac{55}{128}, \frac{55}{128}, -\frac{33}{64}, \frac{99}{256}, \frac{99}{256}, -\frac{11}{128})$ $+ \frac{11}{128}\sqrt{218}e^3 \otimes e_5$	{1346, 157, 1346, 157}
83:18	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{102}e^{14} - \frac{14}{137}\sqrt{21}e^{23}, \frac{14}{137}\sqrt{21}e^{13} + \frac{7}{137}\sqrt{102}e^{24},$ $\frac{7}{137}\sqrt{34}e^{12} + \frac{14}{137}\sqrt{34}e^{35}$	$(-\frac{7}{137}, -\frac{7}{137}, \frac{35}{137}, \frac{35}{137}, -\frac{49}{137}, \frac{28}{137}, \frac{28}{137}, -\frac{14}{137})$ $+ \frac{14}{137}\sqrt{59}e^4 \otimes e_8$	{124, 1568, 467, 124, 1568, 467}
83:18	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{102}e^{14} + \frac{14}{137}\sqrt{21}e^{23}, \frac{14}{137}\sqrt{21}e^{13} + \frac{7}{137}\sqrt{102}e^{24},$ $\frac{7}{137}\sqrt{34}e^{12} + \frac{14}{137}\sqrt{34}e^{35}$	$(-\frac{7}{137}, -\frac{7}{137}, \frac{35}{137}, \frac{35}{137}, -\frac{49}{137}, \frac{28}{137}, \frac{28}{137}, -\frac{14}{137})$ $+ \frac{14}{137}\sqrt{59}e^4 \otimes e_8$	{124, 1568, 467, 124, 1568, 467}
83:19	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{33}e^{14} + \frac{1}{19}\sqrt{66}e^{23}, \frac{1}{19}\sqrt{110}e^{13} + \frac{2}{19}\sqrt{33}e^{25},$ $\frac{1}{19}\sqrt{110}e^{12} + \frac{2}{19}\sqrt{22}e^{45}$	$(-\frac{3}{19}, \frac{5}{19}, \frac{1}{19}, \frac{9}{19}, -\frac{7}{19}, \frac{6}{19}, -\frac{2}{19}, \frac{2}{19})$ $+ \frac{4}{19}\sqrt{22}e^4 \otimes e_7$	{3578, 468}
83:20	$0, 0, 0, 0, 0, \frac{2}{5}e^{13} + \frac{1}{5}\sqrt{5}e^{24}, \frac{1}{5}\sqrt{5}e^{15} + \frac{2}{5}e^{23}, \frac{2}{5}e^{14} + \frac{2}{5}e^{25}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+ \frac{2}{5}e^3 \otimes e_8$	{367, 458}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{35}e^{12}, \frac{1}{11}\sqrt{35}e^{17}$	$(\frac{5}{22}, -\frac{1}{11}, \frac{5}{11}, -\frac{9}{22}, -\frac{2}{11}, \frac{3}{22}, \frac{3}{22}, \frac{4}{11})$ $+ \frac{2}{11}\sqrt{21}e^1 \otimes e_4 + \frac{7}{11}e^3 \otimes e_5$	{12368, 1238, 12568, 1258, 1367, 137, 1567, 157, 234678, 23478, 245678, 24578, 34, 346, 45, 456}
821:1	$0, 0, 0, 0, 0, 0, \frac{12}{73}\sqrt{5}e^{12}, \frac{12}{73}\sqrt{5}e^{17}$	$(-\frac{1}{73}, \frac{8}{73}, -\frac{21}{73}, -\frac{12}{73}, \frac{26}{73}, \frac{7}{73}, \frac{7}{73}, \frac{6}{73})$ $+ \frac{2}{73}\sqrt{190}e^2 \otimes e_4 + \frac{2}{73}\sqrt{190}e^5 \otimes e_8 + \frac{4}{73}\sqrt{70}e^1 \otimes e_3$	{1268, 128, 14567, 1457, 23678, 2378, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{327}e^{12}, \frac{1}{87}\sqrt{6322}e^{17}$	$(-\frac{17}{87}, \frac{4}{29}, \frac{1}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{5}{87}, -\frac{22}{87})$ $+ \frac{1}{87}\sqrt{15042}e^3 \otimes e_8$	{124568, 12458, 1248, 128, 134567, 13457, 1347, 137, 245678, 24578, 2478, 278, 3, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{14}{359}\sqrt{130}e^{12}, \frac{20}{359}\sqrt{39}e^{17}$	$(\frac{22}{359}, \frac{52}{359}, -\frac{108}{359}, -\frac{78}{359}, \frac{101}{359}, -\frac{29}{359}, \frac{74}{359}, \frac{96}{359})$ $+ \frac{130}{359}e^5 \otimes e_6 + \frac{24}{359}\sqrt{65}e^1 \otimes e_3 + \frac{2}{359}\sqrt{7410}e^2 \otimes e_4$	{1258, 1268, 1457, 1467, 23578, 23678, 345, 346}
821:1	$0, 0, 0, 0, 0, 0, \frac{20}{359}\sqrt{39}e^{12}, \frac{14}{359}\sqrt{130}e^{17}$	$(\frac{22}{359}, -\frac{24}{359}, \frac{101}{359}, -\frac{108}{359}, \frac{150}{359}, -\frac{29}{359}, -\frac{2}{359}, \frac{20}{359})$ $+ \frac{130}{359}e^3 \otimes e_6 + \frac{24}{359}\sqrt{65}e^1 \otimes e_4 + \frac{2}{359}\sqrt{7410}e^5 \otimes e_8$	{1238, 1268, 1357, 1567, 23478, 24678, 345, 456}
821:1	$0, 0, 0, 0, 0, 0, \frac{4}{283}\sqrt{327}e^{12}, \frac{2}{283}\sqrt{6322}e^{17}$	$(\frac{104}{283}, -\frac{114}{283}, \frac{145}{283}, -\frac{73}{283}, \frac{36}{283}, \frac{36}{283}, -\frac{10}{283}, \frac{94}{283})$ $+ \frac{218}{283}e^3 \otimes e_4 + \frac{2}{283}\sqrt{15042}e^1 \otimes e_2$	{13567, 1357, 137, 14567, 1457, 147, 235678, 23578, 2378, 245678, 24578, 2478}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{258}e^{12}, \frac{4}{199}\sqrt{559}e^{17}$	$(\frac{29}{199}, -\frac{57}{199}, \frac{61}{199}, -\frac{25}{199}, \frac{87}{199}, \frac{18}{199}, -\frac{28}{199}, \frac{1}{199})$ $+ \frac{2}{199}\sqrt{2967}e^1 \otimes e_2 + \frac{2}{199}\sqrt{2967}e^5 \otimes e_8 + \frac{86}{199}e^3 \otimes e_4$	{13567, 1357, 14567, 1457, 23678, 2378, 24678, 2478}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{11}e^{12}, \frac{1}{7}\sqrt{11}e^{17}$	$(\frac{1}{14}, \frac{1}{7}, 1, -\frac{4}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{2}{7})$ $+ \frac{11}{7}e^3 \otimes e_4$	{123568, 12358, 1238, 124568, 12458, 1248, 13567, 1357, 137, 14567, 1457, 147, 235678, 23578, 2378, 245678, 24578, 2478, 3, 35, 356, 4, 45, 456}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
821:1	$0, 0, 0, 0, 0, 0, \frac{12}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{5}e^{17}$	$(-\frac{13}{53}, \frac{20}{53}, \frac{30}{53}, -\frac{16}{53}, \frac{7}{53}, \frac{7}{53}, \frac{7}{53}, -\frac{6}{53})$ $+\frac{6}{53}\sqrt{46}e^2 \otimes e_4 + \frac{6}{53}\sqrt{46}e^3 \otimes e_8$	{12568, 1258, 128, 134567, 13457, 1347, 25678, 2578, 278, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{78}\sqrt{258}e^{12}, \frac{1}{39}\sqrt{559}e^{17}$	$(\frac{29}{156}, -\frac{19}{52}, \frac{29}{52}, \frac{3}{26}, \frac{3}{26}, \frac{3}{26}, -\frac{7}{39}, \frac{1}{156})$ $+\frac{1}{78}\sqrt{2967}e^1 \otimes e_2 + \frac{1}{78}\sqrt{2967}e^3 \otimes e_8$	{134567, 13457, 1347, 137, 245678, 24578, 2478, 278}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{130}e^{12}, \frac{10}{147}\sqrt{39}e^{17}$	$(\frac{11}{147}, \frac{26}{147}, -\frac{18}{49}, -\frac{13}{49}, \frac{6}{49}, \frac{6}{49}, \frac{37}{147}, \frac{16}{49})$ $+\frac{1}{147}\sqrt{7410}e^2 \otimes e_4 + \frac{4}{49}\sqrt{65}e^1 \otimes e_3$	{12568, 1258, 128, 14567, 1457, 147, 235678, 23578, 2378, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{35}e^{12}, \frac{2}{15}\sqrt{35}e^{17}$	$(\frac{1}{3}, -\frac{2}{15}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{8}{15})$ $+\frac{4}{15}\sqrt{21}e^1 \otimes e_3$	{124568, 12458, 1248, 128, 14567, 1457, 147, 17, 2345678, 234578, 23478, 2378, 3, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{283}\sqrt{6322}e^{12}, \frac{4}{283}\sqrt{327}e^{17}$	$(-\frac{34}{283}, \frac{116}{283}, \frac{145}{283}, -\frac{102}{283}, -\frac{73}{283}, \frac{36}{283}, \frac{82}{283}, \frac{48}{283})$ $+\frac{218}{283}e^3 \otimes e_5 + \frac{2}{283}\sqrt{15042}e^2 \otimes e_4$	{12368, 1238, 12568, 1258, 13467, 1347, 14567, 1457, 23678, 2378, 25678, 2578, 34, 346, 45, 456}
821:1	$0, 0, 0, 0, 0, 0, \frac{10}{147}\sqrt{39}e^{12}, \frac{1}{21}\sqrt{130}e^{17}$	$(\frac{11}{147}, -\frac{4}{49}, \frac{25}{49}, -\frac{18}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{1}{147}, \frac{10}{147})$ $+\frac{1}{147}\sqrt{7410}e^3 \otimes e_8 + \frac{4}{49}\sqrt{65}e^1 \otimes e_4$	{12568, 1258, 128, 13567, 1357, 137, 245678, 24578, 2478, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{11}e^{17}$	$(\frac{1}{25}, \frac{2}{25}, \frac{14}{25}, \frac{14}{25}, -\frac{8}{25}, -\frac{8}{25}, \frac{3}{25}, \frac{4}{25})$ $+\frac{22}{25}e^3 \otimes e_5 + \frac{22}{25}e^4 \otimes e_6$	{12348, 12368, 12568, 1347, 1367, 1567, 23478, 23678, 25678, 34, 36, 56}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{87}\sqrt{6322}e^{12}, \frac{2}{87}\sqrt{327}e^{17}$	$(-\frac{17}{87}, \frac{2}{3}, -\frac{17}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{41}{87}, \frac{8}{29})$ $+\frac{1}{87}\sqrt{15042}e^2 \otimes e_3$	{124568, 12458, 1248, 128, 134567, 13457, 1347, 137, 245678, 24578, 2478, 278, 3, 34, 345, 3456}
821:1	$0, 0, 0, 0, 0, 0, \frac{1}{98}\sqrt{327}e^{12}, \frac{1}{196}\sqrt{6322}e^{17}$	$(\frac{13}{49}, -\frac{57}{196}, \frac{145}{392}, -\frac{73}{392}, \frac{145}{392}, -\frac{73}{392}, -\frac{5}{196}, \frac{47}{196})$ $+\frac{109}{196}e^3 \otimes e_4 + \frac{109}{196}e^5 \otimes e_6 + \frac{1}{196}\sqrt{15042}e^1 \otimes e_2$	{1357, 1367, 1467, 23578, 23678, 24678}
821:1	$0, 0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12}, \frac{12}{71}\sqrt{5}e^{17}$	$(-\frac{13}{71}, \frac{20}{71}, \frac{25}{71}, -\frac{16}{71}, \frac{30}{71}, -\frac{11}{71}, \frac{7}{71}, -\frac{6}{71})$ $+\frac{36}{71}e^3 \otimes e_6 + \frac{6}{71}\sqrt{46}e^2 \otimes e_4 + \frac{6}{71}\sqrt{46}e^5 \otimes e_8$	{1238, 1268, 13457, 14567, 2378, 2678, 345, 456}
821:1	$0, 0, 0, 0, 0, 0, \frac{4}{283}\sqrt{327}e^{12}, \frac{2}{283}\sqrt{6322}e^{17}$	$(-\frac{34}{283}, \frac{24}{283}, \frac{145}{283}, \frac{174}{283}, -\frac{73}{283}, \frac{36}{283}, -\frac{10}{283}, -\frac{44}{283})$ $+\frac{218}{283}e^3 \otimes e_5 + \frac{2}{283}\sqrt{15042}e^4 \otimes e_8$	{12368, 1238, 12568, 1258, 13467, 1347, 14567, 1457, 23678, 2378, 25678, 2578, 34, 346, 45, 456}
821:1	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{327}e^{12}, \frac{1}{87}\sqrt{6322}e^{17}$	$(\frac{52}{87}, -\frac{19}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{5}{87}, \frac{47}{87})$ $+\frac{1}{87}\sqrt{15042}e^1 \otimes e_2$	{134567, 13457, 1347, 137, 17, 2345678, 234578, 23478, 2378, 278}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{1549}\sqrt{123802}e^{12}, \frac{4}{1549}\sqrt{14579}e^{13} + \frac{8}{1549}\sqrt{5258}e^{27}$	$(\frac{362}{1549}, -\frac{58}{1549}, -\frac{116}{1549}, -\frac{536}{1549}, \frac{377}{1549}, -\frac{101}{1549}, \frac{304}{1549}, \frac{246}{1549})$ $+\frac{2}{1549}\sqrt{119022}e^1 \otimes e_3 + \frac{2}{1549}\sqrt{161086}e^2 \otimes e_4 + \frac{478}{1549}e^5 \otimes e_6$	{2357, 2367, 345, 346}
821:2	$0, 0, 0, 0, 0, 0, \frac{10}{313}\sqrt{222}e^{12}, \frac{4}{313}\sqrt{1443}e^{13} + \frac{4}{313}\sqrt{111}e^{27}$	$(\frac{100}{313}, -\frac{6}{313}, -\frac{12}{313}, \frac{151}{313}, -\frac{122}{313}, -\frac{71}{313}, \frac{94}{313}, \frac{88}{313})$ $+\frac{18}{313}\sqrt{222}e^1 \otimes e_5 + \frac{222}{313}e^4 \otimes e_6$	{1234, 1236, 1347, 1367, 234578, 235678, 3458, 3568}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{643}\sqrt{8710}e^{12}, \frac{1}{643}\sqrt{142710}e^{13} + \frac{4}{643}\sqrt{2010}e^{27}$	$(\frac{104}{643}, \frac{65}{643}, \frac{130}{643}, -\frac{231}{643}, -\frac{205}{643}, \frac{69}{643}, \frac{169}{643}, \frac{234}{643})$ $+\frac{10}{643}\sqrt{2010}e^1 \otimes e_4 + \frac{2}{643}\sqrt{45895}e^3 \otimes e_5$	{123, 1236, 1367, 137, 234678, 23478, 3468, 348}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{179}\sqrt{890}e^{12}, \frac{5}{179}\sqrt{89}e^{13} + \frac{3}{179}\sqrt{445}e^{27}$	$(\frac{40}{179}, -\frac{49}{358}, -\frac{49}{179}, \frac{125}{358}, \frac{80}{179}, -\frac{53}{358}, \frac{31}{358}, -\frac{9}{179})$ $+\frac{1}{179}\sqrt{9701}e^1 \otimes e_3 + \frac{2}{179}\sqrt{2759}e^5 \otimes e_8 + \frac{89}{179}e^4 \otimes e_6$	{1248, 1268, 1478, 1678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
821:2	$0, 0, 0, 0, 0, 0, \frac{12}{199}\sqrt{246}e^{12}, \frac{2}{199}\sqrt{2091}e^{13} + \frac{2}{199}\sqrt{2337}e^{27}$	$(\frac{144}{199}, -\frac{51}{199}, -\frac{102}{199}, \frac{40}{199}, \frac{40}{199}, \frac{40}{199}, \frac{93}{199}, \frac{42}{199})$ $+ \frac{6}{199}\sqrt{2173}e^1 \otimes e_3$	{234567, 23457, 2347, 237, 3, 34, 345, 3456}
821:2	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{10}e^{12}, \frac{3}{161}\sqrt{510}e^{13} + \frac{6}{161}\sqrt{10}e^{27}$	$(\frac{8}{161}, \frac{5}{161}, \frac{10}{161}, -\frac{37}{161}, \frac{9}{23}, -\frac{5}{23}, \frac{13}{161}, \frac{18}{161})$ $+ \frac{12}{161}\sqrt{30}e^3 \otimes e_6 + \frac{30}{161}\sqrt{5}e^1 \otimes e_4 + \frac{30}{161}\sqrt{5}e^5 \otimes e_8$	{1268, 1678, 24567, 456}
821:2	$0, 0, 0, 0, 0, 0, \frac{4}{1291}\sqrt{15555}e^{12}, \frac{20}{1291}\sqrt{170}e^{13} + \frac{4}{1291}\sqrt{14705}e^{27}$	$(\frac{206}{1291}, -\frac{67}{1291}, -\frac{134}{1291}, -\frac{407}{1291}, \frac{412}{1291}, \frac{119}{1291}, \frac{139}{1291}, \frac{72}{1291})$ $+ \frac{2}{1291}\sqrt{49810}e^5 \otimes e_8 + \frac{2}{1291}\sqrt{60010}e^1 \otimes e_3 + \frac{4}{1291}\sqrt{22355}e^2 \otimes e_4$	{23567, 2357, 345, 3456}
821:2	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{246}e^{12}, \frac{1}{161}\sqrt{2091}e^{13} + \frac{1}{161}\sqrt{2337}e^{27}$	$(\frac{72}{161}, -\frac{51}{322}, -\frac{51}{161}, \frac{163}{322}, -\frac{83}{322}, \frac{20}{161}, \frac{322}{322}, \frac{3}{23})$ $+ \frac{123}{161}e^4 \otimes e_5 + \frac{3}{161}\sqrt{2173}e^1 \otimes e_3$	{23467, 2347, 23567, 2357, 34, 346, 35, 356}
821:2	$0, 0, 0, 0, 0, 0, \frac{4}{269}\sqrt{890}e^{12}, \frac{10}{269}\sqrt{89}e^{13} + \frac{6}{269}\sqrt{445}e^{27}$	$(\frac{80}{269}, -\frac{49}{269}, -\frac{98}{269}, \frac{160}{269}, \frac{36}{269}, \frac{36}{269}, \frac{31}{269}, -\frac{18}{269})$ $+ \frac{2}{269}\sqrt{9701}e^1 \otimes e_3 + \frac{4}{269}\sqrt{2759}e^4 \otimes e_8$	{12568, 1258, 128, 15678, 1578, 178}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{541}\sqrt{13623}e^{12}, \frac{4}{541}\sqrt{239}e^{13} + \frac{1}{541}\sqrt{87474}e^{27}$	$(-\frac{40}{541}, \frac{37}{541}, \frac{74}{541}, \frac{273}{541}, -\frac{202}{541}, \frac{66}{541}, -\frac{3}{541}, \frac{34}{541})$ $+ \frac{2}{541}\sqrt{32026}e^2 \otimes e_5 + \frac{3}{541}\sqrt{10994}e^4 \otimes e_8$	{12368, 1238, 135678, 13578, 23467, 2347, 345, 3456}
821:2	$0, 0, 0, 0, 0, 0, \frac{12}{337}\sqrt{58}e^{12}, \frac{4}{337}\sqrt{551}e^{13} + \frac{4}{337}\sqrt{1073}e^{27}$	$(-\frac{41}{337}, \frac{36}{337}, \frac{72}{337}, -\frac{80}{337}, \frac{147}{337}, -\frac{44}{337}, -\frac{5}{337}, \frac{31}{337})$ $+ \frac{2}{337}\sqrt{4466}e^3 \otimes e_6 + \frac{2}{337}\sqrt{6554}e^2 \otimes e_4 + \frac{2}{337}\sqrt{1653}e^5 \otimes e_8$	{1268, 14678, 2567, 456}
821:2	$0, 0, 0, 0, 0, 0, \frac{6}{83}\sqrt{22}e^{12}, \frac{2}{83}\sqrt{66}e^{13} + \frac{6}{83}\sqrt{22}e^{27}$	$(\frac{7}{83}, \frac{1}{83}, \frac{2}{83}, -\frac{15}{83}, \frac{31}{83}, -\frac{21}{83}, \frac{8}{83}, \frac{9}{83})$ $+ \frac{2}{83}\sqrt{253}e^1 \otimes e_4 + \frac{2}{83}\sqrt{253}e^5 \otimes e_8 + \frac{2}{83}\sqrt{319}e^2 \otimes e_6$	{128, 1678, 2457, 456}
821:2	$0, 0, 0, 0, 0, 0, \frac{12}{67}\sqrt{21}e^{12}, \frac{28}{67}\sqrt{2}e^{13} + \frac{12}{67}\sqrt{21}e^{27}$	$(-\frac{1}{67}, \frac{13}{67}, \frac{26}{67}, -\frac{43}{67}, \frac{12}{67}, \frac{12}{67}, \frac{12}{67}, \frac{25}{67})$ $+ \frac{4}{67}\sqrt{385}e^2 \otimes e_4$	{123568, 12358, 1238, 1345678, 134578, 13478, 23567, 2357, 237, 34, 345, 3456}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{101}\sqrt{111}e^{12}, \frac{2}{101}\sqrt{1443}e^{13} + \frac{5}{101}\sqrt{222}e^{27}$	$(-\frac{4}{101}, -\frac{3}{101}, -\frac{6}{101}, 1, \frac{20}{101}, \frac{20}{101}, -\frac{7}{101}, -\frac{10}{101})$ $+ \frac{9}{101}\sqrt{222}e^4 \otimes e_8$	{1234567, 123457, 12347, 134, 1345, 13456, 23568, 2358, 238, 35678, 3578, 378}
821:2	$0, 0, 0, 0, 0, 0, \frac{12}{95}\sqrt{21}e^{12}, \frac{28}{95}\sqrt{2}e^{13} + \frac{12}{95}\sqrt{21}e^{27}$	$(-\frac{1}{95}, \frac{13}{95}, \frac{26}{95}, \frac{8}{19}, -\frac{43}{95}, -\frac{16}{95}, \frac{12}{95}, \frac{5}{19})$ $+ \frac{4}{95}\sqrt{385}e^2 \otimes e_5 + \frac{56}{95}e^4 \otimes e_6$	{12348, 12368, 134578, 135678, 2347, 2367, 345, 356}
821:2	$0, 0, 0, 0, 0, 0, \frac{4}{65}\sqrt{51}e^{12}, \frac{2}{65}\sqrt{102}e^{13} + \frac{4}{65}\sqrt{51}e^{27}$	$(\frac{8}{65}, \frac{6}{65}, \frac{12}{65}, 1, -\frac{37}{65}, \frac{14}{65}, \frac{14}{65}, \frac{4}{13})$ $+ \frac{102}{65}e^4 \otimes e_5$	{12468, 1248, 12568, 1258, 14678, 1478, 15678, 1578, 2467, 247, 2567, 257, 4, 46, 5, 56}
821:2	$0, 0, 0, 0, 0, 0, \frac{4}{643}\sqrt{2010}e^{12}, \frac{1}{643}\sqrt{142710}e^{13} + \frac{2}{643}\sqrt{8710}e^{27}$	$(-\frac{96}{643}, \frac{65}{643}, \frac{130}{643}, \frac{369}{643}, -\frac{205}{643}, \frac{69}{643}, -\frac{31}{643}, \frac{34}{643})$ $+ \frac{10}{643}\sqrt{2010}e^4 \otimes e_8 + \frac{2}{643}\sqrt{45895}e^3 \otimes e_5$	{123467, 12347, 134, 1346, 2368, 238, 3678, 378}
821:2	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{1}{41}\sqrt{462}e^{13} + \frac{2}{41}\sqrt{42}e^{27}$	$(\frac{8}{41}, -\frac{3}{41}, -\frac{6}{41}, \frac{23}{41}, -\frac{13}{41}, \frac{5}{41}, \frac{5}{41}, \frac{2}{41})$ $+ \frac{6}{41}\sqrt{21}e^1 \otimes e_5 + \frac{6}{41}\sqrt{21}e^4 \otimes e_8$	{1268, 128, 1678, 178, 24567, 2457, 45, 456}
821:2	$0, 0, 0, 0, 0, 0, \frac{5}{101}\sqrt{222}e^{12}, \frac{2}{101}\sqrt{1443}e^{13} + \frac{2}{101}\sqrt{111}e^{27}$	$(\frac{50}{101}, -\frac{3}{101}, -\frac{6}{101}, -\frac{61}{101}, \frac{20}{101}, \frac{20}{101}, \frac{47}{101}, \frac{44}{101})$ $+ \frac{9}{101}\sqrt{222}e^1 \otimes e_4$	{123, 1235, 12356, 13567, 1357, 137, 2345678, 234578, 23478, 34568, 3458, 348}
821:2	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{111}e^{12}, \frac{4}{313}\sqrt{1443}e^{13} + \frac{10}{313}\sqrt{222}e^{27}$	$(-\frac{8}{313}, -\frac{6}{313}, -\frac{12}{313}, \frac{151}{313}, \frac{202}{313}, -\frac{71}{313}, -\frac{14}{313}, -\frac{20}{313})$ $+ \frac{18}{313}\sqrt{222}e^5 \otimes e_8 + \frac{222}{313}e^4 \otimes e_6$	{123457, 123567, 1345, 1356, 2348, 2368, 3478, 3678}
821:2	$0, 0, 0, 0, 0, 0, \frac{1}{655}\sqrt{123802}e^{12}, \frac{2}{655}\sqrt{14579}e^{13} + \frac{4}{655}\sqrt{5258}e^{27}$	$(\frac{181}{655}, -\frac{29}{655}, -\frac{58}{655}, -\frac{268}{655}, \frac{69}{655}, \frac{69}{655}, \frac{152}{655}, \frac{123}{655})$ $+ \frac{1}{655}\sqrt{119022}e^1 \otimes e_3 + \frac{1}{655}\sqrt{161086}e^2 \otimes e_4$	{23567, 2357, 237, 34, 345, 3456}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
821:2	$0, 0, 0, 0, 0, 0, \frac{1}{541}\sqrt{87474}e^{12}, \frac{4}{541}\sqrt{239}e^{13} + \frac{2}{541}\sqrt{13623}e^{27}$	$(\frac{98}{541}, \frac{37}{541}, \frac{74}{541}, -\frac{141}{541}, -\frac{202}{541}, \frac{66}{541}, \frac{135}{541}, \frac{172}{541})$ $+ \frac{2}{541}\sqrt{32026}e^2 \otimes e_5 + \frac{3}{541}\sqrt{10994}e^1 \otimes e_4$	{12368, 1238, 135678, 13578, 23467, 2347, 345, 3456}
821:2	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{4}\sqrt{15}e^{13} + \frac{1}{8}\sqrt{10}e^{27}$	$(-\frac{1}{8}, \frac{5}{16}, \frac{5}{8}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{1}{2})$ $+ \frac{1}{8}\sqrt{130}e^3 \otimes e_4$	{1245678, 124578, 12478, 14568, 1458, 148, 24, 245, 2456, 4567, 457, 47}
821:2	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{15}e^{13} + \frac{1}{13}\sqrt{10}e^{27}$	$(-\frac{1}{13}, \frac{5}{26}, \frac{5}{13}, \frac{1}{2}, -\frac{5}{13}, -\frac{7}{26}, \frac{3}{26}, \frac{4}{13})$ $+ \frac{10}{13}e^4 \otimes e_6 + \frac{1}{13}\sqrt{130}e^3 \otimes e_5$	{124578, 125678, 1458, 1568, 245, 256, 457, 567}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{371}e^{12}, \frac{2}{199}\sqrt{901}e^{17} + \frac{12}{199}\sqrt{106}e^{34}$	$(\frac{31}{199}, \frac{14}{199}, \frac{38}{199}, \frac{38}{199}, -\frac{68}{199}, -\frac{68}{199}, \frac{45}{199}, \frac{76}{199})$ $+ \frac{2}{199}\sqrt{4717}e^3 \otimes e_5 + \frac{2}{199}\sqrt{4717}e^4 \otimes e_6$	{1234, 1256, 13678, 2347, 2567, 368}
821:3	$0, 0, 0, 0, 0, 0, \frac{3}{677}\sqrt{12954}e^{12}, \frac{9}{677}\sqrt{170}e^{17} + \frac{3}{677}\sqrt{13566}e^{34}$	$(-\frac{24}{677}, \frac{254}{677}, \frac{251}{677}, -\frac{45}{677}, -\frac{205}{677}, -\frac{208}{677}, \frac{230}{677}, \frac{206}{677})$ $+ \frac{12}{677}\sqrt{1887}e^3 \otimes e_6 + \frac{3}{677}\sqrt{29886}e^2 \otimes e_5$	{1234, 126, 13578, 145678, 2347, 267, 358, 4568}
821:3	$0, 0, 0, 0, 0, 0, \frac{1}{753}\sqrt{166162}e^{12}, \frac{6}{251}\sqrt{331}e^{17} + \frac{4}{753}\sqrt{993}e^{34}$	$(\frac{49}{753}, \frac{130}{753}, \frac{38}{251}, \frac{38}{251}, -\frac{94}{251}, -\frac{67}{251}, \frac{179}{753}, \frac{76}{251})$ $+ \frac{1}{753}\sqrt{192642}e^2 \otimes e_6 + \frac{2}{753}\sqrt{61566}e^1 \otimes e_5$	{12348, 128, 1367, 234578, 2578, 356}
821:3	$0, 0, 0, 0, 0, 0, \frac{46}{697}\sqrt{39}e^{12}, \frac{1}{697}\sqrt{128570}e^{17} + \frac{26}{697}\sqrt{46}e^{34}$	$(\frac{61}{697}, -\frac{50}{697}, \frac{36}{697}, \frac{36}{697}, \frac{371}{697}, -\frac{14}{41}, \frac{11}{697}, \frac{72}{697})$ $+ \frac{1}{697}\sqrt{169234}e^5 \otimes e_8 + \frac{2}{697}\sqrt{48737}e^1 \otimes e_6$	{1238, 13457, 157, 23678, 3456, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{43}e^{12}, \frac{1}{49}\sqrt{129}e^{17} + \frac{1}{49}\sqrt{129}e^{34}$	$(\frac{5}{98}, \frac{4}{49}, \frac{26}{49}, -\frac{17}{49}, \frac{55}{98}, -\frac{31}{98}, \frac{13}{49}, \frac{9}{49})$ $+ \frac{43}{49}e^3 \otimes e_4 + \frac{43}{49}e^5 \otimes e_6$	{12358, 12368, 12458, 12468, 23578, 23678, 24578, 24678}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{2085}e^{12}, \frac{2}{223}\sqrt{10842}e^{17} + \frac{2}{223}\sqrt{1529}e^{34}$	$(\frac{130}{223}, -\frac{148}{223}, \frac{56}{223}, \frac{56}{223}, \frac{45}{223}, \frac{45}{223}, -\frac{18}{223}, \frac{112}{223})$ $+ \frac{2}{223}\sqrt{24742}e^1 \otimes e_2$	{13567, 1357, 137, 2345678, 234578, 23478, 25678, 2578, 278}
821:3	$0, 0, 0, 0, 0, 0, \frac{1}{57}\sqrt{2698}e^{12}, \frac{1}{57}\sqrt{426}e^{17} + \frac{1}{57}\sqrt{426}e^{34}$	$(-\frac{10}{57}, \frac{2}{3}, \frac{3}{19}, \frac{3}{19}, -\frac{11}{19}, \frac{4}{19}, \frac{28}{57}, \frac{6}{19})$ $+ \frac{1}{19}\sqrt{710}e^2 \otimes e_5$	{12368, 1238, 134567, 13457, 1567, 157, 23678, 2378, 345, 3456, 5, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{1}{169}\sqrt{8239}e^{12}, \frac{9}{169}\sqrt{107}e^{17} + \frac{2}{169}\sqrt{321}e^{34}$	$(\frac{73}{338}, -\frac{16}{169}, \frac{82}{169}, -\frac{25}{169}, -\frac{141}{338}, \frac{45}{338}, \frac{41}{338}, \frac{57}{169})$ $+ \frac{107}{169}e^3 \otimes e_4 + \frac{1}{169}\sqrt{19902}e^1 \otimes e_5$	{1367, 137, 1467, 147, 35, 356, 45, 456}
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{43}e^{12}, \frac{2}{55}\sqrt{129}e^{17} + \frac{2}{55}\sqrt{129}e^{34}$	$(\frac{1}{11}, \frac{8}{55}, \frac{52}{55}, -\frac{34}{55}, \frac{12}{55}, \frac{12}{55}, \frac{13}{55}, \frac{18}{55})$ $+ \frac{86}{55}e^3 \otimes e_4$	{123568, 12358, 1238, 124568, 12458, 1248, 235678, 23578, 2378, 245678, 24578, 2478}
821:3	$0, 0, 0, 0, 0, 0, \frac{6}{571}\sqrt{206}e^{12}, \frac{4}{571}\sqrt{2678}e^{17} + \frac{4}{571}\sqrt{2678}e^{34}$	$(\frac{87}{571}, -\frac{119}{571}, \frac{105}{571}, -\frac{50}{571}, \frac{261}{571}, -\frac{101}{571}, -\frac{32}{571}, \frac{55}{571})$ $+ \frac{2}{571}\sqrt{15965}e^1 \otimes e_2 + \frac{2}{571}\sqrt{15965}e^3 \otimes e_6 + \frac{6}{571}\sqrt{2369}e^5 \otimes e_8$	{13457, 1567, 2378, 24678}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{501}\sqrt{2085}e^{12}, \frac{2}{501}\sqrt{10842}e^{17} + \frac{2}{501}\sqrt{1529}e^{34}$	$(\frac{130}{501}, -\frac{148}{501}, \frac{65}{167}, -\frac{83}{501}, \frac{184}{501}, -\frac{94}{501}, -\frac{6}{167}, \frac{112}{501})$ $+ \frac{278}{501}e^3 \otimes e_4 + \frac{278}{501}e^5 \otimes e_6 + \frac{2}{501}\sqrt{24742}e^1 \otimes e_2$	{1357, 1367, 1457, 1467}
821:3	$0, 0, 0, 0, 0, 0, \frac{3}{29}\sqrt{14}e^{12}, \frac{3}{58}\sqrt{203}e^{17} + \frac{3}{58}\sqrt{203}e^{34}$	$(-\frac{13}{116}, \frac{4}{29}, -\frac{5}{116}, -\frac{5}{116}, 1, \frac{6}{29}, \frac{3}{116}, -\frac{5}{58})$ $+ \frac{3}{29}\sqrt{161}e^5 \otimes e_8$	{12368, 1238, 134567, 13457, 1567, 157, 23678, 2378, 345, 3456, 5, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2085}e^{12}, \frac{1}{181}\sqrt{10842}e^{17} + \frac{1}{181}\sqrt{1529}e^{34}$	$(\frac{65}{181}, -\frac{74}{181}, \frac{195}{362}, -\frac{83}{362}, \frac{45}{362}, \frac{45}{362}, -\frac{9}{181}, \frac{56}{181})$ $+ \frac{139}{181}e^3 \otimes e_4 + \frac{1}{181}\sqrt{24742}e^1 \otimes e_2$	{13567, 1357, 137, 14567, 1457, 147}
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{219}\sqrt{390}e^{12}, \frac{20}{219}\sqrt{13}e^{17} + \frac{20}{219}\sqrt{13}e^{34}$	$(-\frac{32}{219}, \frac{20}{73}, \frac{50}{219}, -\frac{18}{73}, \frac{100}{219}, -\frac{44}{219}, \frac{28}{219}, -\frac{4}{219})$ $+ \frac{104}{219}e^3 \otimes e_4 + \frac{4}{219}\sqrt{1001}e^5 \otimes e_8 + \frac{4}{219}\sqrt{871}e^2 \otimes e_6$	{1238, 1248, 2378, 2478}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{377}\sqrt{237}e^{12}, \frac{6}{377}\sqrt{790}e^{17} + \frac{4}{377}\sqrt{553}e^{34}$	$(\frac{2}{13}, -\frac{100}{377}, \frac{3}{13}, -\frac{71}{377}, \frac{6}{13}, \frac{36}{377}, -\frac{42}{377}, \frac{16}{377})$ $+ \frac{158}{377}e^3 \otimes e_4 + \frac{2}{377}\sqrt{10902}e^5 \otimes e_8 + \frac{4}{377}\sqrt{2449}e^1 \otimes e_2$	{23678, 2378, 24678, 2478}
821:3	$0, 0, 0, 0, 0, 0, \frac{3}{205}\sqrt{298}e^{12}, \frac{1}{205}\sqrt{8642}e^{17} + \frac{1}{205}\sqrt{8642}e^{34}$	$(\frac{78}{205}, -\frac{71}{205}, \frac{87}{205}, -\frac{2}{205}, -\frac{62}{205}, \frac{27}{205}, \frac{7}{41}, \frac{17}{41})$ $+ \frac{1}{205}\sqrt{26522}e^1 \otimes e_2 + \frac{1}{205}\sqrt{26522}e^3 \otimes e_5$	{13467, 1347, 1567, 157, 23678, 2378, 245678, 24578}
821:3	$0, 0, 0, 0, 0, 0, \frac{92}{1693}\sqrt{39}e^{12}, \frac{2}{1693}\sqrt{128570}e^{17} + \frac{52}{1693}\sqrt{46}e^{34}$	$(\frac{122}{1693}, -\frac{100}{1693}, \frac{371}{1693}, -\frac{227}{1693}, \frac{742}{1693}, -\frac{476}{1693}, \frac{22}{1693}, \frac{144}{1693})$ $+ \frac{2}{1693}\sqrt{169234}e^5 \otimes e_8 + \frac{4}{1693}\sqrt{48737}e^1 \otimes e_6 + \frac{598}{1693}e^3 \otimes e_4$	{1238, 1248, 23678, 24678}
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{167}\sqrt{390}e^{12}, \frac{20}{167}\sqrt{13}e^{17} + \frac{20}{167}\sqrt{13}e^{34}$	$(-\frac{32}{167}, \frac{60}{167}, -\frac{2}{167}, -\frac{2}{167}, \frac{100}{167}, -\frac{44}{167}, \frac{28}{167}, -\frac{4}{167})$ $+ \frac{4}{167}\sqrt{1001}e^5 \otimes e_8 + \frac{4}{167}\sqrt{871}e^2 \otimes e_6$	{1238, 134567, 1567, 2378, 3456, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2085}e^{12}, \frac{1}{181}\sqrt{10842}e^{17} + \frac{1}{181}\sqrt{1529}e^{34}$	$(\frac{65}{181}, -\frac{74}{181}, \frac{28}{181}, \frac{28}{181}, \frac{92}{181}, -\frac{47}{181}, -\frac{9}{181}, \frac{56}{181})$ $+ \frac{139}{181}e^5 \otimes e_6 + \frac{1}{181}\sqrt{24742}e^1 \otimes e_2$	{1357, 1367, 234578, 234678, 2578, 2678}
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{281}\sqrt{1290}e^{12}, \frac{20}{281}\sqrt{43}e^{17} + \frac{4}{281}\sqrt{645}e^{34}$	$(\frac{70}{281}, -\frac{21}{281}, \frac{110}{281}, \frac{9}{281}, -\frac{102}{281}, \frac{62}{281}, \frac{49}{281}, \frac{119}{281})$ $+ \frac{2}{281}\sqrt{12126}e^1 \otimes e_5 + \frac{2}{281}\sqrt{8686}e^3 \otimes e_6$	{1238, 12468, 1347, 167, 23578, 245678, 345, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{149}\sqrt{237}e^{12}, \frac{2}{149}\sqrt{553}e^{17} + \frac{3}{149}\sqrt{790}e^{34}$	$(-\frac{2}{149}, \frac{12}{149}, \frac{35}{149}, -\frac{27}{149}, \frac{87}{149}, -\frac{44}{149}, \frac{10}{149}, \frac{8}{149})$ $+ \frac{1}{149}\sqrt{10902}e^5 \otimes e_8 + \frac{2}{149}\sqrt{2449}e^3 \otimes e_6$	{1238, 12468, 13457, 1567, 2378, 24678, 345, 56}
821:3	$0, 0, 0, 0, 0, 0, \frac{12}{179}\sqrt{14}e^{12}, \frac{6}{179}\sqrt{203}e^{17} + \frac{6}{179}\sqrt{203}e^{34}$	$(-\frac{13}{179}, \frac{16}{179}, \frac{58}{179}, -\frac{68}{179}, \frac{116}{179}, \frac{24}{179}, \frac{3}{179}, -\frac{10}{179})$ $+ \frac{126}{179}e^3 \otimes e_4 + \frac{12}{179}\sqrt{161}e^5 \otimes e_8$	{12368, 1238, 12468, 1248, 23678, 2378, 24678, 2478}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2698}e^{12}, \frac{2}{185}\sqrt{426}e^{17} + \frac{2}{185}\sqrt{426}e^{34}$	$(-\frac{4}{37}, \frac{76}{185}, \frac{89}{185}, -\frac{53}{185}, -\frac{66}{185}, \frac{24}{185}, \frac{56}{185}, \frac{36}{185})$ $+ \frac{142}{185}e^3 \otimes e_4 + \frac{6}{185}\sqrt{710}e^2 \otimes e_5$	{12368, 1238, 12468, 1248, 23678, 2378, 24678, 2478}
821:3	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{43}e^{12}, \frac{2}{55}\sqrt{129}e^{17} + \frac{2}{55}\sqrt{129}e^{34}$	$(\frac{1}{11}, \frac{8}{55}, \frac{9}{55}, \frac{9}{55}, 1, -\frac{31}{55}, \frac{13}{55}, \frac{18}{55})$ $+ \frac{86}{55}e^5 \otimes e_6$	{12358, 12368, 13457, 13467, 157, 167, 23578, 23678, 345, 346, 5, 6}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{2085}e^{12}, \frac{2}{223}\sqrt{1529}e^{17} + \frac{2}{223}\sqrt{10842}e^{34}$	$(\frac{41}{223}, \frac{30}{223}, \frac{145}{223}, -\frac{33}{223}, -\frac{133}{223}, \frac{45}{223}, \frac{71}{223}, \frac{112}{223})$ $+ \frac{2}{223}\sqrt{24742}e^3 \otimes e_5$	{1234, 12346, 125, 1256, 13678, 1378, 145678, 14578, 23467, 2347, 2567, 257, 368, 38, 4568, 458}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{149}\sqrt{237}e^{12}, \frac{3}{149}\sqrt{790}e^{17} + \frac{2}{149}\sqrt{553}e^{34}$	$(\frac{29}{149}, -\frac{50}{149}, \frac{4}{149}, \frac{4}{149}, \frac{87}{149}, \frac{18}{149}, -\frac{21}{149}, \frac{8}{149})$ $+ \frac{1}{149}\sqrt{10902}e^5 \otimes e_8 + \frac{2}{149}\sqrt{2449}e^1 \otimes e_2$	{134567, 13457, 1567, 157, 23678, 2378}
821:3	$0, 0, 0, 0, 0, 0, \frac{2}{231}\sqrt{8239}e^{12}, \frac{6}{77}\sqrt{107}e^{17} + \frac{4}{231}\sqrt{321}e^{34}$	$(\frac{73}{231}, -\frac{32}{231}, \frac{19}{77}, \frac{19}{77}, -\frac{47}{77}, \frac{15}{77}, \frac{41}{231}, \frac{38}{77})$ $+ \frac{2}{231}\sqrt{19902}e^1 \otimes e_5$	{123468, 12348, 1268, 128, 1367, 137, 2345678, 234578, 25678, 2578, 35, 356}
821:4	$0, 0, 0, 0, 0, 0, \frac{3}{122}\sqrt{1490}e^{12}, \frac{1}{122}\sqrt{3874}e^{13} + \frac{1}{122}\sqrt{2831}e^{27} + \frac{1}{122}\sqrt{2831}e^{45}$	$(\frac{45}{61}, -\frac{59}{244}, -\frac{59}{122}, \frac{31}{244}, \frac{31}{244}, \frac{25}{122}, \frac{121}{244}, \frac{31}{122})$ $+ \frac{1}{122}\sqrt{28906}e^1 \otimes e_3$	{234567, 23457, 2367, 237, 3, 345, 3456, 36}
821:4	$0, 0, 0, 0, 0, 0, \frac{14}{487}\sqrt{814}e^{12}, \frac{1}{487}\sqrt{82214}e^{13} + \frac{1}{487}\sqrt{160358}e^{27} + \frac{1}{487}\sqrt{2442}e^{45}$	$(-\frac{8}{487}, \frac{94}{487}, \frac{188}{487}, \frac{90}{487}, \frac{90}{487}, -\frac{313}{487}, \frac{86}{487}, \frac{180}{487})$ $+ \frac{20}{487}\sqrt{814}e^2 \otimes e_6$	{123458, 1238, 1345678, 13678, 2347, 346}
821:4	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{13002}e^{12}, \frac{1}{479}\sqrt{43734}e^{13} + \frac{3}{479}\sqrt{1970}e^{27} + \frac{3}{479}\sqrt{23246}e^{45}$	$(\frac{88}{479}, \frac{66}{479}, \frac{132}{479}, \frac{302}{479}, -\frac{82}{479}, -\frac{289}{479}, \frac{154}{479}, \frac{220}{479})$ $+ \frac{48}{479}\sqrt{197}e^4 \otimes e_6$	{1245, 126, 1457, 167, 2478, 25678, 48, 568}
821:4	$0, 0, 0, 0, 0, 0, \frac{68}{1585}\sqrt{157}e^{12}, \frac{34}{1585}\sqrt{299}e^{13} + \frac{34}{1585}\sqrt{422}e^{27} + \frac{34}{1585}\sqrt{15}e^{45}$	$(\frac{442}{1585}, -\frac{68}{1585}, -\frac{136}{1585}, \frac{153}{1585}, \frac{153}{1585}, -\frac{646}{1585}, \frac{374}{1585}, \frac{306}{1585})$ $+ \frac{102}{1585}\sqrt{67}e^1 \otimes e_3 + \frac{34}{1585}\sqrt{814}e^2 \otimes e_6$	{23457, 237, 3456, 36}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{186}e^{12}, \frac{2}{119}\sqrt{186}e^{13} + \frac{6}{119}\sqrt{62}e^{27} + \frac{6}{119}\sqrt{62}e^{45}$	$(\frac{16}{119}, \frac{12}{119}, \frac{24}{119}, \frac{113}{119}, -\frac{73}{119}, \frac{26}{119}, \frac{4}{17}, \frac{40}{119})$ $+ \frac{186}{119}e^4 \otimes e_5$	{12468, 1248, 12568, 1258, 14678, 1478, 15678, 1578}
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{143}e^{12}, \frac{3}{115}\sqrt{1430}e^{13} + \frac{2}{115}\sqrt{429}e^{27} + \frac{2}{115}\sqrt{429}e^{45}$	$(-\frac{16}{115}, \frac{7}{23}, \frac{14}{23}, \frac{27}{115}, \frac{27}{115}, -\frac{73}{115}, \frac{19}{115}, \frac{54}{115})$ $+ \frac{2}{115}\sqrt{6721}e^3 \otimes e_6$	{1245678, 12678, 14568, 168, 246, 467}
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{1449}\sqrt{74261}e^{13} + \frac{2}{1449}\sqrt{2365}e^{27} + \frac{2}{1449}\sqrt{152306}e^{45}$	$(\frac{72}{161}, -\frac{149}{1449}, -\frac{298}{1449}, \frac{164}{483}, -\frac{142}{1449}, -\frac{454}{1449}, \frac{499}{1449}, \frac{50}{207})$ $+ \frac{2}{1449}\sqrt{299882}e^4 \otimes e_6 + \frac{2}{1449}\sqrt{300355}e^1 \otimes e_3$	{23457, 2367, 345, 36}
821:4	$0, 0, 0, 0, 0, 0, \frac{2}{189}\sqrt{2010}e^{12}, \frac{8}{189}\sqrt{134}e^{13} + \frac{2}{189}\sqrt{134}e^{27} + \frac{2}{189}\sqrt{134}e^{45}$	$(\frac{20}{63}, -\frac{4}{189}, -\frac{8}{189}, \frac{31}{63}, -\frac{41}{189}, -\frac{74}{189}, \frac{8}{27}, \frac{52}{189})$ $+ \frac{134}{189}e^4 \otimes e_5 + \frac{2}{27}\sqrt{134}e^1 \otimes e_6$	{1234, 1235, 1347, 1357}
821:4	$0, 0, 0, 0, 0, 0, \frac{8}{373}\sqrt{143}e^{12}, \frac{6}{373}\sqrt{1430}e^{13} + \frac{4}{373}\sqrt{429}e^{27} + \frac{4}{373}\sqrt{429}e^{45}$	$(-\frac{32}{373}, \frac{70}{373}, \frac{140}{373}, \frac{197}{373}, -\frac{89}{373}, -\frac{146}{373}, \frac{38}{373}, \frac{108}{373})$ $+ \frac{286}{373}e^4 \otimes e_5 + \frac{4}{373}\sqrt{6721}e^3 \otimes e_6$	{246, 256, 467, 567}
821:4	$0, 0, 0, 0, 0, 0, \frac{28}{1381}\sqrt{814}e^{12}, \frac{2}{1381}\sqrt{82214}e^{13} + \frac{2}{1381}\sqrt{160358}e^{27} + \frac{2}{1381}\sqrt{2442}e^{45}$	$(-\frac{16}{1381}, \frac{188}{1381}, \frac{376}{1381}, \frac{587}{1381}, -\frac{227}{1381}, -\frac{626}{1381}, \frac{172}{1381}, \frac{360}{1381})$ $+ \frac{40}{1381}\sqrt{814}e^2 \otimes e_6 + \frac{814}{1381}e^4 \otimes e_5$	{2347, 2357, 346, 356}
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{13}\sqrt{2}e^{12}, \frac{8}{65}\sqrt{5}e^{13} + \frac{12}{65}\sqrt{5}e^{27} + \frac{12}{65}\sqrt{5}e^{45}$	$(\frac{4}{13}, -\frac{2}{13}, -\frac{4}{13}, 0, 0, \frac{8}{13}, \frac{2}{13}, 0)$ $+ \frac{4}{13}\sqrt{5}e^1 \otimes e_3 + \frac{4}{65}\sqrt{155}e^6 \otimes e_8$	{1248, 1478}
821:4	$0, 0, 0, 0, 0, 0, \frac{1}{61}\sqrt{2010}e^{12}, \frac{4}{61}\sqrt{134}e^{13} + \frac{1}{61}\sqrt{134}e^{27} + \frac{1}{61}\sqrt{134}e^{45}$	$(\frac{30}{61}, -\frac{2}{61}, -\frac{4}{61}, \frac{13}{61}, \frac{13}{61}, -\frac{37}{61}, \frac{28}{61}, \frac{26}{61})$ $+ \frac{7}{61}\sqrt{134}e^1 \otimes e_6$	{1234, 1347, 2345678, 23678, 34568, 368}
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{8}{85}\sqrt{5}e^{13} + \frac{12}{85}\sqrt{5}e^{27} + \frac{12}{85}\sqrt{5}e^{45}$	$(\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{8}{17}, \frac{2}{17}, 0)$ $+ \frac{4}{17}\sqrt{5}e^1 \otimes e_3 + \frac{4}{85}\sqrt{155}e^6 \otimes e_8 - \frac{8}{17}e^4 \otimes e_5$	{1248, 1258, 1478, 1578}
821:4	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{8}{85}\sqrt{5}e^{13} + \frac{12}{85}\sqrt{5}e^{27} + \frac{12}{85}\sqrt{5}e^{45}$	$(\frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{8}{17}, \frac{2}{17}, 0)$ $+ \frac{4}{17}\sqrt{5}e^1 \otimes e_3 + \frac{4}{85}\sqrt{155}e^6 \otimes e_8 + \frac{8}{17}e^4 \otimes e_5$	{1248, 1258, 1478, 1578}
821:5	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{265}e^{12}, \frac{1}{34}\sqrt{159}e^{17} + \frac{1}{34}\sqrt{159}e^{34} + \frac{1}{34}\sqrt{159}e^{56}$	$(\frac{7}{68}, \frac{5}{34}, \frac{65}{68}, -\frac{41}{68}, \frac{3}{17}, \frac{3}{17}, \frac{1}{4}, \frac{6}{17})$ $+ \frac{53}{34}e^3 \otimes e_4$	{12358, 12458, 23578, 24578}
821:5	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{265}e^{12}, \frac{2}{121}\sqrt{159}e^{17} + \frac{2}{121}\sqrt{159}e^{34} + \frac{2}{121}\sqrt{159}e^{56}$	$(\frac{7}{121}, \frac{10}{121}, \frac{65}{121}, -\frac{41}{121}, \frac{65}{121}, -\frac{41}{121}, \frac{17}{121}, \frac{24}{121})$ $+ \frac{106}{121}e^3 \otimes e_4 + \frac{106}{121}e^5 \otimes e_6$	{12358, 12368, 12468, 23578, 23678, 24678}
821:5	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{265}e^{12}, \frac{2}{121}\sqrt{159}e^{17} + \frac{2}{121}\sqrt{159}e^{34} + \frac{2}{121}\sqrt{159}e^{56}$	$(\frac{7}{121}, \frac{10}{121}, \frac{65}{121}, -\frac{41}{121}, \frac{65}{121}, -\frac{41}{121}, \frac{17}{121}, \frac{24}{121})$ $+ \frac{106}{121}e^3 \otimes e_4 - \frac{106}{121}e^5 \otimes e_6$	{12358, 12368, 12468, 23578, 23678, 24678}
821:5	$0, 0, 0, 0, 0, 0, \frac{26}{147}\sqrt{2}e^{12}, \frac{26}{63}\sqrt{2}e^{17} + \frac{26}{441}\sqrt{11}e^{34} + \frac{26}{441}\sqrt{11}e^{56}$	$(\frac{52}{147}, -\frac{26}{63}, \frac{26}{49}, -\frac{104}{441}, \frac{65}{441}, \frac{65}{441}, -\frac{26}{441}, \frac{130}{441})$ $+ \frac{26}{441}\sqrt{218}e^1 \otimes e_2 + \frac{338}{441}e^3 \otimes e_4$	{1357, 1457}
821:5	$0, 0, 0, 0, 0, 0, \frac{39}{136}\sqrt{2}e^{12}, \frac{91}{136}\sqrt{2}e^{17} + \frac{13}{136}\sqrt{11}e^{34} + \frac{13}{136}\sqrt{11}e^{56}$	$(\frac{39}{68}, -\frac{91}{136}, \frac{65}{272}, \frac{65}{272}, \frac{65}{272}, \frac{65}{272}, -\frac{13}{136}, \frac{65}{136})$ $+ \frac{13}{136}\sqrt{218}e^1 \otimes e_2$	{1357, 2345678, 23478, 278}
821:5	$0, 0, 0, 0, 0, 0, \frac{39}{305}\sqrt{2}e^{12}, \frac{91}{305}\sqrt{2}e^{17} + \frac{13}{305}\sqrt{11}e^{34} + \frac{13}{305}\sqrt{11}e^{56}$	$(\frac{78}{305}, -\frac{91}{305}, \frac{117}{305}, -\frac{52}{305}, \frac{117}{305}, -\frac{52}{305}, -\frac{13}{305}, \frac{13}{61})$ $+ \frac{13}{305}\sqrt{218}e^1 \otimes e_2 + \frac{169}{305}e^3 \otimes e_4 + \frac{169}{305}e^5 \otimes e_6$	{1357, 1367, 1467}
821:5	$0, 0, 0, 0, 0, 0, \frac{39}{305}\sqrt{2}e^{12}, \frac{91}{305}\sqrt{2}e^{17} + \frac{13}{305}\sqrt{11}e^{34} + \frac{13}{305}\sqrt{11}e^{56}$	$(\frac{78}{305}, -\frac{91}{305}, \frac{117}{305}, -\frac{52}{305}, \frac{117}{305}, -\frac{52}{305}, -\frac{13}{305}, \frac{13}{61})$ $+ \frac{13}{305}\sqrt{218}e^1 \otimes e_2 + \frac{169}{305}e^3 \otimes e_4 - \frac{169}{305}e^5 \otimes e_6$	{1357, 1367, 1467}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13}$	$(\frac{1}{18}, \frac{11}{36}, -\frac{5}{36}, -\frac{1}{3}, \frac{1}{9}, \frac{1}{9}, \frac{13}{36}, -\frac{1}{12})$ $+ \frac{2}{9}\sqrt{7}e^1 \otimes e_4 + \frac{2}{9}\sqrt{7}e^2 \otimes e_8$	{123, 1235, 12356, 15678, 1578, 178, 24567, 2457, 247, 34568, 3458, 348}
82:1	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12}, \frac{2}{43}\sqrt{46}e^{13}$	$(-\frac{12}{43}, \frac{12}{43}, \frac{1}{43}, \frac{23}{43}, \frac{5}{43}, \frac{5}{43}, 0, -\frac{11}{43})$ $+ \frac{2}{43}\sqrt{230}e^2 \otimes e_8 + \frac{6}{43}\sqrt{23}e^4 \otimes e_7$	{1234, 12345, 123456, 15678, 1578, 178, 2567, 257, 27, 34568, 3458, 348}
82:1	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{598}e^{12}, \frac{4}{109}\sqrt{46}e^{13}$	$(\frac{12}{109}, \frac{24}{109}, -\frac{34}{109}, -\frac{13}{109}, \frac{33}{109}, \frac{10}{109}, \frac{36}{109}, -\frac{22}{109})$ $+ \frac{12}{109}\sqrt{23}e^1 \otimes e_3 + \frac{46}{109}e^5 \otimes e_4 + \frac{4}{109}\sqrt{230}e^2 \otimes e_8$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:1	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12}, \frac{2}{43}\sqrt{46}e^{13}$	$(-\frac{12}{43}, \frac{10}{43}, \frac{21}{43}, -\frac{13}{43}, \frac{5}{43}, \frac{5}{43}, -\frac{2}{43}, \frac{9}{43})$ $+ \frac{2}{43}\sqrt{230}e^3 \otimes e_7 + \frac{6}{43}\sqrt{23}e^2 \otimes e_4$	{123, 1235, 12356, 145678, 14578, 1478, 2567, 257, 27, 34568, 3458, 348}
82:1	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{55}e^{12}, \frac{2}{31}\sqrt{55}e^{13}$	$(\frac{10}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{15}{31}, -\frac{12}{31}, -\frac{7}{31}, \frac{9}{31}, \frac{9}{31})$ $+ \frac{22}{31}e^4 \otimes e_6 + \frac{8}{31}\sqrt{11}e^1 \otimes e_5$	{1234, 1236, 1248, 1268, 1478, 1678, 234578, 235678, 2457, 2567, 45, 56}
82:1	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1003}e^{12}, \frac{1}{136}\sqrt{354}e^{13}$	$(-\frac{25}{136}, \frac{49}{272}, \frac{9}{136}, \frac{117}{272}, \frac{43}{136}, -\frac{69}{272}, -\frac{1}{272}, -\frac{2}{17})$ $+ \frac{1}{136}\sqrt{3658}e^5 \otimes e_8 + \frac{1}{136}\sqrt{5487}e^2 \otimes e_6 + \frac{1}{136}\sqrt{5487}e^4 \otimes e_7$	{12345, 1248, 13567, 1678, 2378, 257, 3468, 456}
82:1	$0, 0, 0, 0, 0, \frac{4}{11}e^{12}, \frac{4}{11}e^{13}$	$(-\frac{3}{11}, \frac{2}{11}, \frac{3}{11}, -\frac{2}{11}, \frac{4}{11}, \frac{1}{11}, -\frac{1}{11}, 0)$ $+ \frac{2}{11}\sqrt{6}e^2 \otimes e_4 + \frac{2}{11}\sqrt{6}e^5 \otimes e_8 + \frac{4}{11}\sqrt{2}e^3 \otimes e_7$	{1235, 12356, 14678, 1478, 2567, 257, 3468, 348}
82:1	$0, 0, 0, 0, 0, \frac{4}{11}e^{12}, \frac{4}{11}e^{13}$	$(\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{3}{11}, \frac{4}{11}, -\frac{2}{11}, \frac{3}{11}, 0)$ $+ \frac{2}{11}\sqrt{6}e^2 \otimes e_6 + \frac{2}{11}\sqrt{6}e^5 \otimes e_8 + \frac{4}{11}\sqrt{2}e^1 \otimes e_4$	{1235, 128, 13567, 1678, 23478, 2457, 3468, 456}
82:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13}$	$(-\frac{7}{18}, \frac{11}{36}, \frac{11}{36}, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{12}, -\frac{1}{12})$ $+ \frac{2}{9}\sqrt{7}e^2 \otimes e_8 - \frac{2}{9}\sqrt{7}e^3 \otimes e_7$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 24567, 2457, 247, 27}
82:1	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13}$	$(-\frac{7}{18}, \frac{11}{36}, \frac{11}{36}, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{12}, -\frac{1}{12})$ $+ \frac{2}{9}\sqrt{7}e^2 \otimes e_8 + \frac{2}{9}\sqrt{7}e^3 \otimes e_7$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 24567, 2457, 247, 27}
82:1	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{55}e^{12}, \frac{2}{31}\sqrt{55}e^{13}$	$(-\frac{6}{31}, \frac{15}{31}, -\frac{1}{31}, \frac{15}{31}, -\frac{7}{31}, \frac{4}{31}, \frac{9}{31}, -\frac{7}{31})$ $+ \frac{22}{31}e^4 \otimes e_5 + \frac{8}{31}\sqrt{11}e^2 \otimes e_8$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 2467, 247, 2567, 257, 3468, 348, 3568, 358}
82:1	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{194}e^{12}, \frac{3}{77}\sqrt{582}e^{13}$	$(\frac{54}{77}, -\frac{43}{77}, -\frac{12}{77}, \frac{15}{77}, \frac{15}{77}, \frac{15}{77}, \frac{1}{7}, \frac{6}{11})$ $+ \frac{2}{77}\sqrt{3007}e^1 \otimes e_2$	{13, 134, 1345, 13456, 14568, 1458, 148, 18, 2, 234568, 23458, 2348, 238, 24, 245, 2456}
82:1	$0, 0, 0, 0, 0, \frac{5}{69}\sqrt{74}e^{12}, \frac{2}{69}\sqrt{111}e^{13}$	$(\frac{19}{69}, \frac{13}{69}, -\frac{6}{23}, -\frac{8}{23}, \frac{7}{69}, \frac{7}{69}, \frac{32}{69}, \frac{1}{69})$ $+ \frac{1}{69}\sqrt{2294}e^1 \otimes e_3 + \frac{1}{69}\sqrt{2294}e^2 \otimes e_4$	{12, 125, 1256, 14567, 1457, 147, 23567, 2357, 237, 34, 345, 3456}
82:1	$0, 0, 0, 0, 0, \frac{5}{89}\sqrt{58}e^{12}, \frac{10}{89}e^{13}$	$(\frac{4}{89}, \frac{5}{89}, \frac{5}{89}, -\frac{21}{89}, \frac{34}{89}, -\frac{20}{89}, \frac{9}{89}, \frac{9}{89})$ $+ \frac{10}{89}\sqrt{14}e^1 \otimes e_4 + \frac{15}{89}\sqrt{6}e^2 \otimes e_6 + \frac{15}{89}\sqrt{6}e^5 \otimes e_7$	{1235, 1258, 1367, 1678, 23478, 247, 34568, 456}
82:1	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{4182}e^{12}, \frac{2}{181}\sqrt{574}e^{13}$	$(-\frac{4}{181}, \frac{24}{181}, -\frac{13}{181}, -\frac{45}{181}, \frac{61}{181}, \frac{15}{181}, \frac{20}{181}, -\frac{17}{181})$ $+ \frac{2}{181}\sqrt{1230}e^1 \otimes e_4 + \frac{2}{181}\sqrt{1230}e^2 \otimes e_8 + \frac{2}{181}\sqrt{943}e^5 \otimes e_7$	{1235, 12356, 1678, 178, 2467, 247, 34568, 3458}
82:1	$0, 0, 0, 0, 0, \frac{2}{69}\sqrt{111}e^{12}, \frac{5}{69}\sqrt{74}e^{13}$	$(\frac{19}{69}, -\frac{6}{23}, -\frac{6}{23}, \frac{38}{69}, \frac{7}{69}, \frac{7}{69}, \frac{1}{69}, \frac{1}{69})$ $+ \frac{1}{69}\sqrt{2294}e^1 \otimes e_2 + \frac{1}{69}\sqrt{2294}e^4 \otimes e_8$	{134, 1345, 13456, 1568, 158, 18, 23568, 2358, 238, 24, 245, 2456}
82:1	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{598}e^{12}, \frac{4}{109}\sqrt{46}e^{13}$	$(-\frac{24}{109}, \frac{24}{109}, \frac{2}{109}, \frac{33}{109}, \frac{33}{109}, -\frac{13}{109}, 0, -\frac{22}{109})$ $+ \frac{12}{109}\sqrt{23}e^5 \otimes e_7 + \frac{46}{109}e^4 \otimes e_6 + \frac{4}{109}\sqrt{230}e^2 \otimes e_8$	{12345, 12356, 1478, 1678, 247, 267, 3458, 3568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:1	$0, 0, 0, 0, 0, \frac{5}{89}\sqrt{58}e^{12}, \frac{10}{89}e^{13}$	$\begin{pmatrix} \frac{3}{89}, \frac{6}{89}, -\frac{22}{89}, \frac{7}{89}, \frac{34}{89}, \frac{7}{89}, \frac{9}{89}, -\frac{19}{89} \end{pmatrix}$ $+ \frac{10}{89}\sqrt{14}e^2 \otimes e_8 + \frac{15}{89}\sqrt{6}e^1 \otimes e_3 + \frac{15}{89}\sqrt{6}e^5 \otimes e_7$	{14678, 1478, 178, 34568, 3458, 358}
82:1	$0, 0, 0, 0, 0, \frac{6}{43}\sqrt{7}e^{12}, \frac{6}{43}\sqrt{7}e^{13}$	$\begin{pmatrix} -\frac{14}{43}, \frac{11}{43}, \frac{11}{43}, -\frac{3}{43}, \frac{11}{43}, \frac{4}{43}, -\frac{3}{43}, -\frac{3}{43} \end{pmatrix}$ $+ \frac{14}{43}e^5 \otimes e_4 + \frac{8}{43}\sqrt{7}e^2 \otimes e_8 - \frac{8}{43}\sqrt{7}e^3 \otimes e_7$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 2467, 247, 2567, 257}
82:1	$0, 0, 0, 0, 0, \frac{6}{43}\sqrt{7}e^{12}, \frac{6}{43}\sqrt{7}e^{13}$	$\begin{pmatrix} -\frac{14}{43}, \frac{11}{43}, \frac{11}{43}, -\frac{3}{43}, \frac{11}{43}, \frac{4}{43}, -\frac{3}{43}, -\frac{3}{43} \end{pmatrix}$ $+ \frac{14}{43}e^5 \otimes e_4 + \frac{8}{43}\sqrt{7}e^2 \otimes e_8 + \frac{8}{43}\sqrt{7}e^3 \otimes e_7$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 2467, 247, 2567, 257}
82:1	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12}, \frac{2}{43}\sqrt{46}e^{13}$	$\begin{pmatrix} \frac{8}{43}, -\frac{8}{43}, \frac{1}{43}, \frac{23}{43}, -\frac{15}{43}, \frac{5}{43}, 0, \frac{9}{43} \end{pmatrix}$ $+ \frac{2}{43}\sqrt{230}e^1 \otimes e_5 + \frac{6}{43}\sqrt{23}e^4 \otimes e_7$	{1234, 12346, 12468, 1248, 1367, 137, 1678, 178, 235678, 23578, 2567, 257, 34568, 3458, 45, 456}
82:1	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12}, \frac{2}{43}\sqrt{46}e^{13}$	$\begin{pmatrix} \frac{8}{43}, \frac{10}{43}, \frac{1}{43}, -\frac{15}{43}, -\frac{13}{43}, \frac{5}{43}, \frac{18}{43}, \frac{9}{43} \end{pmatrix}$ $+ \frac{2}{43}\sqrt{230}e^1 \otimes e_4 + \frac{6}{43}\sqrt{23}e^2 \otimes e_5$	{123, 1236, 1268, 128, 13567, 1357, 15678, 1578, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
82:1	$0, 0, 0, 0, 0, \frac{1}{136}\sqrt{354}e^{12}, \frac{1}{68}\sqrt{1003}e^{13}$	$\begin{pmatrix} \frac{43}{272}, -\frac{75}{272}, -\frac{11}{68}, \frac{43}{136}, \frac{117}{272}, \frac{3}{34}, -\frac{2}{17}, -\frac{1}{272} \end{pmatrix}$ $+ \frac{1}{136}\sqrt{3658}e^4 \otimes e_7 + \frac{1}{136}\sqrt{5487}e^1 \otimes e_2 + \frac{1}{136}\sqrt{5487}e^5 \otimes e_8$	{13567, 1357, 1678, 178, 23678, 2378, 2567, 257}
82:1	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{74}e^{12}, \frac{4}{175}\sqrt{111}e^{13}$	$\begin{pmatrix} \frac{38}{175}, \frac{26}{175}, -\frac{36}{175}, -\frac{48}{175}, \frac{51}{175}, -\frac{23}{175}, \frac{64}{175}, \frac{2}{175} \end{pmatrix}$ $+ \frac{2}{175}\sqrt{2294}e^1 \otimes e_3 + \frac{2}{175}\sqrt{2294}e^2 \otimes e_4 + \frac{74}{175}e^5 \otimes e_6$	{125, 126, 1457, 1467, 2357, 2367, 345, 346}
82:1	$0, 0, 0, 0, 0, \frac{4}{11}e^{12}, \frac{4}{11}e^{13}$	$\begin{pmatrix} \frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, \frac{4}{11}, -\frac{3}{11}, 0, 0 \end{pmatrix}$ $+ \frac{2}{11}\sqrt{6}e^4 \otimes e_7 + \frac{2}{11}\sqrt{6}e^5 \otimes e_8 + \frac{4}{11}\sqrt{2}e^1 \otimes e_6$	{12345, 1248, 178, 23678, 2567, 456}
82:1	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{598}e^{12}, \frac{4}{109}\sqrt{46}e^{13}$	$\begin{pmatrix} -\frac{24}{109}, \frac{20}{109}, \frac{42}{109}, -\frac{26}{109}, \frac{33}{109}, -\frac{13}{109}, -\frac{4}{109}, \frac{18}{109} \end{pmatrix}$ $+ \frac{12}{109}\sqrt{23}e^2 \otimes e_4 + \frac{46}{109}e^5 \otimes e_6 + \frac{4}{109}\sqrt{230}e^3 \otimes e_7$	{1235, 1236, 14578, 14678, 257, 267, 3458, 3468}
82:1	$0, 0, 0, 0, 0, \frac{4}{71}\sqrt{65}e^{12}, \frac{4}{71}\sqrt{65}e^{13}$	$\begin{pmatrix} -\frac{11}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{40}{71}, \frac{40}{71}, \frac{9}{71}, -\frac{12}{71}, -\frac{12}{71} \end{pmatrix}$ $+ \frac{2}{71}\sqrt{806}e^4 \otimes e_7 + \frac{2}{71}\sqrt{806}e^5 \otimes e_8$	{12345, 123456, 12468, 1248, 1678, 178, 23678, 2378, 2567, 257, 45, 456}
82:1	$0, 0, 0, 0, 0, \frac{5}{69}\sqrt{74}e^{12}, \frac{2}{69}\sqrt{111}e^{13}$	$\begin{pmatrix} -\frac{4}{23}, \frac{13}{69}, \frac{13}{69}, \frac{38}{69}, -\frac{8}{23}, \frac{7}{69}, \frac{1}{69}, \frac{1}{69} \end{pmatrix}$ $+ \frac{1}{69}\sqrt{2294}e^2 \otimes e_5 + \frac{1}{69}\sqrt{2294}e^4 \otimes e_7$	{123468, 12348, 124, 1246, 135678, 13578, 1567, 157, 2367, 237, 2678, 278, 345, 3456, 4568, 458}
82:1	$0, 0, 0, 0, 0, \frac{6}{251}\sqrt{582}e^{12}, \frac{4}{251}\sqrt{194}e^{13}$	$\begin{pmatrix} -\frac{16}{251}, -\frac{24}{251}, \frac{38}{251}, \frac{127}{251}, \frac{154}{251}, -\frac{67}{251}, -\frac{40}{251}, \frac{22}{251} \end{pmatrix}$ $+ \frac{194}{251}e^4 \otimes e_6 + \frac{4}{251}\sqrt{3007}e^5 \otimes e_7$	{123458, 123568, 1245, 1256, 13478, 13678, 147, 167, 2347, 2367, 2478, 2678, 345, 356, 458, 568}
82:1	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{55}e^{12}, \frac{1}{10}\sqrt{55}e^{13}$	$\begin{pmatrix} -\frac{3}{10}, \frac{3}{4}, -\frac{1}{20}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{9}{20}, -\frac{7}{20} \end{pmatrix}$ $+ \frac{2}{5}\sqrt{11}e^2 \otimes e_8$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 24567, 2457, 247, 27, 34568, 3458, 348, 38}
82:1	$0, 0, 0, 0, 0, \frac{6}{251}\sqrt{582}e^{12}, \frac{4}{251}\sqrt{194}e^{13}$	$\begin{pmatrix} -\frac{16}{251}, \frac{100}{251}, \frac{38}{251}, \frac{127}{251}, -\frac{94}{251}, -\frac{67}{251}, \frac{84}{251}, \frac{22}{251} \end{pmatrix}$ $+ \frac{194}{251}e^4 \otimes e_6 + \frac{4}{251}\sqrt{3007}e^2 \otimes e_5$	{12348, 12368, 124, 126, 134578, 135678, 1457, 1567, 2347, 2367, 2478, 2678, 345, 356, 458, 568}
82:1	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1003}e^{12}, \frac{1}{136}\sqrt{354}e^{13}$	$\begin{pmatrix} -\frac{25}{136}, \frac{49}{272}, \frac{5}{17}, -\frac{69}{272}, \frac{117}{272}, -\frac{19}{136}, -\frac{1}{272}, \frac{15}{136} \end{pmatrix}$ $+ \frac{1}{136}\sqrt{3658}e^3 \otimes e_6 + \frac{1}{136}\sqrt{5487}e^2 \otimes e_4 + \frac{1}{136}\sqrt{5487}e^5 \otimes e_7$	{1235, 12568, 1347, 14678, 2378, 267, 3458, 456}
82:1	$0, 0, 0, 0, 0, \frac{4}{97}\sqrt{65}e^{12}, \frac{4}{97}\sqrt{65}e^{13}$	$\begin{pmatrix} \frac{20}{97}, -\frac{32}{97}, -\frac{1}{97}, \frac{35}{97}, \frac{40}{97}, -\frac{17}{97}, -\frac{12}{97}, \frac{19}{97} \end{pmatrix}$ $+ \frac{2}{97}\sqrt{806}e^1 \otimes e_2 + \frac{2}{97}\sqrt{806}e^5 \otimes e_7 + \frac{52}{97}e^4 \otimes e_6$	{1347, 1367, 1478, 1678, 23478, 23678, 247, 267}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:1	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13}$	$(\frac{2}{19}, \frac{3}{19}, \frac{3}{19}, 1, -\frac{11}{19}, \frac{4}{19}, \frac{5}{19}, \frac{5}{19})$ $+\frac{30}{19}e^4 \otimes e_5$	{1234, 12346, 1235, 12356, 12468, 1248, 12568, 1258, 14678, 1478, 15678, 1578, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 4, 46, 5, 56}
82:1	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{65}e^{12}, \frac{4}{71}\sqrt{65}e^{13}$	$(-\frac{11}{71}, \frac{30}{71}, \frac{30}{71}, -\frac{22}{71}, -\frac{22}{71}, \frac{9}{71}, \frac{19}{71}, \frac{19}{71})$ $+\frac{2}{71}\sqrt{806}e^2 \otimes e_4 + \frac{2}{71}\sqrt{806}e^3 \otimes e_5$	{123, 1236, 12568, 1258, 145678, 14578, 23678, 2378, 2567, 257, 45, 456}
82:1	$0, 0, 0, 0, 0, 0, \frac{4}{175}\sqrt{111}e^{12}, \frac{2}{35}\sqrt{74}e^{13}$	$(\frac{38}{175}, -\frac{36}{175}, -\frac{36}{175}, \frac{51}{175}, \frac{76}{175}, -\frac{23}{175}, \frac{2}{175}, \frac{2}{175})$ $+\frac{2}{175}\sqrt{2294}e^1 \otimes e_2 + \frac{2}{175}\sqrt{2294}e^5 \otimes e_8 + \frac{74}{175}e^4 \otimes e_6$	{1345, 1356, 148, 168, 2348, 2368, 245, 256}
82:1	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{65}e^{12}, \frac{4}{71}\sqrt{65}e^{13}$	$(\frac{20}{71}, -\frac{32}{71}, -\frac{1}{71}, \frac{40}{71}, \frac{9}{71}, \frac{9}{71}, -\frac{12}{71}, \frac{19}{71})$ $+\frac{2}{71}\sqrt{806}e^1 \otimes e_2 + \frac{2}{71}\sqrt{806}e^4 \otimes e_7$	{13567, 1357, 137, 15678, 1578, 178, 235678, 23578, 2378, 2567, 257, 27}
82:1	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12}, \frac{2}{43}\sqrt{46}e^{13}$	$(\frac{6}{43}, \frac{12}{43}, -\frac{17}{43}, \frac{5}{43}, \frac{5}{43}, \frac{5}{43}, \frac{18}{43}, -\frac{11}{43})$ $+\frac{2}{43}\sqrt{230}e^2 \otimes e_8 + \frac{6}{43}\sqrt{23}e^1 \otimes e_3$	{145678, 14578, 1478, 178, 34568, 3458, 348, 38}
82:1	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{55}e^{12}, \frac{1}{10}\sqrt{55}e^{13}$	$(\frac{1}{2}, -\frac{1}{20}, -\frac{1}{20}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{9}{20}, \frac{9}{20})$ $+\frac{2}{5}\sqrt{11}e^1 \otimes e_4$	{123, 1235, 12356, 12568, 1258, 128, 15678, 1578, 178, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
82:1	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{65}e^{12}, \frac{4}{71}\sqrt{65}e^{13}$	$(-\frac{11}{71}, \frac{30}{71}, -\frac{1}{71}, \frac{40}{71}, -\frac{22}{71}, \frac{9}{71}, \frac{19}{71}, -\frac{12}{71})$ $+\frac{2}{71}\sqrt{806}e^2 \otimes e_5 + \frac{2}{71}\sqrt{806}e^4 \otimes e_8$	{1234, 12346, 1268, 128, 134567, 13457, 15678, 1578, 23678, 2378, 2467, 247, 3568, 358, 45, 456}
82:1	$0, 0, 0, 0, 0, 0, \frac{3}{77}\sqrt{582}e^{12}, \frac{2}{77}\sqrt{194}e^{13}$	$(-\frac{8}{77}, -\frac{12}{77}, \frac{19}{77}, 1, \frac{15}{77}, \frac{15}{77}, -\frac{20}{77}, \frac{1}{77})$ $+\frac{2}{77}\sqrt{3007}e^4 \otimes e_7$	{1234568, 123458, 12348, 124, 1245, 12456, 135678, 13578, 1378, 1567, 157, 17, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48}
82:1	$0, 0, 0, 0, 0, 0, \frac{3}{77}\sqrt{582}e^{12}, \frac{2}{77}\sqrt{194}e^{13}$	$(-\frac{8}{77}, \frac{50}{77}, \frac{19}{77}, -\frac{47}{77}, \frac{15}{77}, \frac{15}{77}, \frac{6}{11}, \frac{1}{77})$ $+\frac{2}{77}\sqrt{3007}e^2 \otimes e_4$	{12, 123568, 12358, 1238, 125, 1256, 1345678, 134578, 13478, 14567, 1457, 147, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48}
82:1	$0, 0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7446}e^{12}, \frac{2}{199}\sqrt{510}e^{13}$	$(\frac{22}{199}, \frac{2}{199}, -\frac{29}{199}, -\frac{49}{199}, \frac{75}{199}, \frac{13}{199}, \frac{24}{199}, -\frac{7}{199})$ $+\frac{2}{199}\sqrt{1581}e^1 \otimes e_3 + \frac{2}{199}\sqrt{1581}e^2 \otimes e_4 + \frac{2}{199}\sqrt{1581}e^5 \otimes e_7$	{125, 1256, 1467, 147, 2367, 237, 345, 3456}
82:1	$0, 0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1003}e^{12}, \frac{1}{136}\sqrt{354}e^{13}$	$(\frac{43}{272}, \frac{49}{272}, -\frac{75}{272}, -\frac{69}{272}, \frac{43}{136}, \frac{3}{34}, \frac{23}{68}, -\frac{2}{17})$ $+\frac{1}{136}\sqrt{3658}e^5 \otimes e_8 + \frac{1}{136}\sqrt{5487}e^1 \otimes e_3 + \frac{1}{136}\sqrt{5487}e^2 \otimes e_4$	{1268, 128, 14678, 1478, 23678, 2378, 3468, 348}
82:1	$0, 0, 0, 0, 0, 0, \frac{6}{43}\sqrt{7}e^{12}, \frac{6}{43}\sqrt{7}e^{13}$	$(\frac{2}{43}, \frac{11}{43}, -\frac{5}{43}, -\frac{12}{43}, \frac{11}{43}, -\frac{3}{43}, \frac{13}{43}, -\frac{3}{43})$ $+\frac{14}{43}e^5 \otimes e_6 + \frac{8}{43}\sqrt{7}e^1 \otimes e_4 + \frac{8}{43}\sqrt{7}e^2 \otimes e_8$	{1235, 1236, 1578, 1678, 2457, 2467, 3458, 3468}
82:1	$0, 0, 0, 0, 0, 0, \frac{4}{251}\sqrt{194}e^{12}, \frac{6}{251}\sqrt{582}e^{13}$	$(\frac{108}{251}, -\frac{86}{251}, -\frac{24}{251}, \frac{127}{251}, -\frac{67}{251}, \frac{30}{251}, \frac{22}{251}, \frac{84}{251})$ $+\frac{194}{251}e^4 \otimes e_5 + \frac{4}{251}\sqrt{3007}e^1 \otimes e_2$	{134, 1346, 135, 1356, 1468, 148, 1568, 158, 23468, 2348, 23568, 2358, 24, 246, 25, 256}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{559}e^{12}, \frac{1}{78}\sqrt{258}e^{34}$	$(\frac{35}{156}, -\frac{17}{78}, \frac{1}{13}, \frac{1}{13}, \frac{29}{52}, -\frac{17}{52}, \frac{1}{156}, \frac{2}{13})$ $+\frac{1}{78}\sqrt{2967}e^1 \otimes e_6 + \frac{1}{78}\sqrt{2967}e^5 \otimes e_7$	{12345, 12358, 125, 1347, 1378, 17, 23467, 23678, 267, 3456, 3568, 56}
82:2	$0, 0, 0, 0, 0, 0, \frac{12}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{5}e^{34}$	$(\frac{20}{53}, -\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{30}{53}, -\frac{16}{53}, \frac{17}{53}, -\frac{6}{53})$ $+\frac{6}{53}\sqrt{46}e^1 \otimes e_6 + \frac{6}{53}\sqrt{46}e^5 \otimes e_8$	{12345, 1238, 125, 13457, 1378, 157, 234567, 23678, 2567, 3456, 368, 56}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{11}e^{12}, \frac{1}{18}\sqrt{11}e^{34}$	$(\frac{13}{36}, -\frac{1}{4}, \frac{13}{36}, -\frac{1}{4}, \frac{7}{18}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{11}{18}e^1 \otimes e_2 + \frac{11}{18}e^3 \otimes e_4 + \frac{11}{18}e^5 \otimes e_6$	{13578, 13678, 14578, 14678, 24578, 24678}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{559}e^{12}, \frac{1}{78}\sqrt{258}e^{34}$	$(\frac{35}{156}, \frac{35}{156}, \frac{1}{13}, \frac{1}{13}, -\frac{17}{52}, -\frac{17}{52}, \frac{35}{78}, \frac{2}{13})$ $+ \frac{1}{78}\sqrt{2967}e^1 \otimes e_5 + \frac{1}{78}\sqrt{2967}e^2 \otimes e_6$	{12, 1234, 1238, 13467, 13678, 167, 3456, 3568, 56}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{11}e^{34}$	$(\frac{13}{25}, -\frac{9}{25}, \frac{2}{25}, \frac{2}{25}, \frac{14}{25}, -\frac{8}{25}, \frac{4}{25}, \frac{4}{25})$ $+ \frac{22}{25}e^1 \otimes e_2 + \frac{22}{25}e^5 \otimes e_6$	{13457, 13467, 13578, 13678, 157, 167, 23457, 23467, 23578, 23678, 257, 267}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{87}\sqrt{6322}e^{12}, \frac{2}{87}\sqrt{327}e^{34}$	$(\frac{2}{3}, -\frac{11}{87}, \frac{4}{29}, \frac{4}{29}, -\frac{17}{29}, \frac{6}{29}, \frac{47}{87}, \frac{8}{29})$ $+ \frac{1}{87}\sqrt{15042}e^1 \otimes e_5$	{12, 1234, 12346, 12368, 1238, 126, 13467, 1347, 13678, 1378, 167, 17, 234567, 23457, 235678, 23578, 2567, 257, 345, 3456, 3568, 358, 5, 56}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{130}e^{12}, \frac{10}{147}\sqrt{39}e^{34}$	$(\frac{26}{147}, -\frac{31}{147}, \frac{20}{49}, -\frac{4}{49}, -\frac{13}{49}, \frac{6}{49}, -\frac{5}{147}, \frac{16}{49})$ $+ \frac{1}{147}\sqrt{7410}e^1 \otimes e_5 + \frac{4}{49}\sqrt{65}e^3 \otimes e_7$	{1234, 12346, 12368, 1238, 14678, 1478, 167, 17, 245678, 24578, 2567, 257, 345, 3456, 3568, 358}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{35}e^{12}, \frac{2}{29}\sqrt{35}e^{34}$	$(\frac{5}{29}, -\frac{9}{29}, \frac{10}{29}, -\frac{2}{29}, \frac{10}{29}, -\frac{4}{29}, -\frac{4}{29}, \frac{8}{29})$ $+ \frac{14}{29}e^1 \otimes e_2 + \frac{14}{29}e^5 \otimes e_6 + \frac{4}{29}\sqrt{21}e^3 \otimes e_7$	{14578, 14678, 157, 167, 24578, 24678, 257, 267}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{34}$	$(\frac{2}{9}, -\frac{2}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 0, 0)$ $+ \frac{4}{9}e^1 \otimes e_8 + \frac{4}{9}e^3 \otimes e_7$	{1234, 12345, 123456, 1567, 157, 17, 245678, 24578, 2478}
82:2	$0, 0, 0, 0, 0, 0, \frac{12}{73}\sqrt{5}e^{12}, \frac{12}{73}\sqrt{5}e^{34}$	$(\frac{8}{73}, -\frac{11}{73}, \frac{17}{73}, -\frac{11}{73}, \frac{26}{73}, -\frac{12}{73}, -\frac{3}{73}, \frac{6}{73})$ $+ \frac{2}{73}\sqrt{190}e^1 \otimes e_6 + \frac{2}{73}\sqrt{190}e^5 \otimes e_8 + \frac{4}{73}\sqrt{70}e^3 \otimes e_7$	{12345, 1238, 1478, 157, 24678, 2567, 3456, 368}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{258}e^{12}, \frac{4}{199}\sqrt{559}e^{34}$	$(\frac{55}{199}, -\frac{31}{199}, \frac{35}{199}, -\frac{34}{199}, \frac{87}{199}, -\frac{51}{199}, \frac{24}{199}, \frac{1}{199})$ $+ \frac{2}{199}\sqrt{2967}e^3 \otimes e_6 + \frac{2}{199}\sqrt{2967}e^5 \otimes e_8 + \frac{86}{199}e^1 \otimes e_2$	{13457, 1378, 14678, 1567, 23457, 2378, 24678, 2567}
82:2	$0, 0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12}, \frac{12}{71}\sqrt{5}e^{34}$	$(\frac{15}{71}, -\frac{21}{71}, \frac{20}{71}, -\frac{3}{71}, \frac{30}{71}, -\frac{16}{71}, -\frac{6}{71}, \frac{17}{71})$ $+ \frac{36}{71}e^1 \otimes e_2 + \frac{6}{71}\sqrt{46}e^3 \otimes e_6 + \frac{6}{71}\sqrt{46}e^5 \otimes e_7$	{1347, 1378, 14678, 167, 2347, 2378, 24678, 267}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{196}\sqrt{6322}e^{12}, \frac{1}{98}\sqrt{327}e^{34}$	$(\frac{87}{392}, -\frac{131}{392}, \frac{19}{56}, -\frac{85}{392}, \frac{87}{196}, \frac{9}{98}, -\frac{11}{98}, \frac{6}{49})$ $+ \frac{109}{196}e^1 \otimes e_2 + \frac{109}{196}e^3 \otimes e_4 + \frac{1}{196}\sqrt{15042}e^5 \otimes e_7$	{13678, 1378, 14678, 1478, 23678, 2378, 24678, 2478}
82:2	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{35}e^{12}, \frac{1}{11}\sqrt{35}e^{34}$	$(\frac{5}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{2}{11})$ $+ \frac{2}{11}\sqrt{21}e^1 \otimes e_8 + \frac{7}{11}e^5 \otimes e_6$	{12345, 12346, 125, 126, 13457, 13467, 157, 167, 23578, 23678, 358, 368}
82:2	$0, 0, 0, 0, 0, 0, \frac{12}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{5}e^{34}$	$(-\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{30}{53}, \frac{30}{53}, -\frac{6}{53}, -\frac{6}{53})$ $+ \frac{6}{53}\sqrt{46}e^3 \otimes e_7 + \frac{6}{53}\sqrt{46}e^6 \otimes e_8$	{123456, 12358, 1256, 1378, 167, 56}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{283}\sqrt{6322}e^{12}, \frac{4}{283}\sqrt{327}e^{34}$	$(\frac{87}{283}, -\frac{131}{283}, \frac{24}{283}, \frac{24}{283}, \frac{174}{283}, \frac{36}{283}, -\frac{44}{283}, \frac{48}{283})$ $+ \frac{218}{283}e^1 \otimes e_2 + \frac{2}{283}\sqrt{15042}e^5 \otimes e_7$	{13467, 1347, 13678, 1378, 167, 17, 23467, 2347, 23678, 2378, 267, 27}
82:2	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{11}e^{34}$	$(\frac{13}{25}, -\frac{9}{25}, \frac{13}{25}, -\frac{9}{25}, \frac{3}{25}, \frac{3}{25}, \frac{4}{25}, \frac{4}{25})$ $+ \frac{22}{25}e^1 \otimes e_2 + \frac{22}{25}e^3 \otimes e_4$	{135678, 13578, 1378, 145678, 14578, 1478, 245678, 24578, 2478}
82:2	$0, 0, 0, 0, 0, 0, \frac{12}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{5}e^{34}$	$(\frac{20}{53}, -\frac{3}{53}, \frac{20}{53}, -\frac{3}{53}, -\frac{16}{53}, -\frac{16}{53}, \frac{17}{53}, \frac{17}{53})$ $+ \frac{6}{53}\sqrt{46}e^1 \otimes e_5 + \frac{6}{53}\sqrt{46}e^3 \otimes e_6$	{1234, 1238, 12468, 126, 1378, 14678, 167, 245678, 2567, 56}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:2	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{130}e^{12}, \frac{10}{147}\sqrt{39}e^{34}$	$(\frac{26}{147}, \frac{41}{147}, -\frac{4}{49}, -\frac{4}{49}, -\frac{13}{49}, \frac{6}{49}, \frac{67}{147}, -\frac{8}{49})$ $+\frac{1}{147}\sqrt{7410}e^1 \otimes e_5 + \frac{4}{49}\sqrt{65}e^2 \otimes e_8$	{12, 1234, 12346, 126, 13678, 1378, 234567, 23457, 2567, 257, 3568, 358}
82:2	$0, 0, 0, 0, 0, \frac{1}{87}\sqrt{6322}e^{12}, \frac{2}{87}\sqrt{327}e^{34}$	$(-\frac{11}{87}, -\frac{11}{87}, \frac{4}{29}, \frac{4}{29}, 1, \frac{6}{29}, -\frac{22}{87}, \frac{8}{29})$ $+\frac{1}{87}\sqrt{15042}e^5 \otimes e_7$	{12345, 123456, 123568, 12358, 125, 1256, 13467, 1347, 13678, 1378, 167, 17, 345, 3456, 3568, 358, 5, 56}
82:2	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{35}e^{12}, \frac{2}{15}\sqrt{35}e^{34}$	$(\frac{2}{3}, -\frac{2}{15}, -\frac{2}{15}, -\frac{2}{15}, \frac{1}{5}, \frac{1}{5}, \frac{8}{15}, -\frac{4}{15})$ $+\frac{4}{15}\sqrt{21}e^1 \otimes e_8$	{12, 1234, 12345, 123456, 125, 1256, 134567, 13457, 1347, 1567, 157, 17, 235678, 23578, 2378, 3568, 358, 38}
82:2	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{35}e^{12}, \frac{1}{11}\sqrt{35}e^{34}$	$(\frac{5}{22}, -\frac{9}{22}, \frac{5}{11}, -\frac{1}{11}, \frac{3}{22}, \frac{3}{22}, -\frac{2}{11}, \frac{4}{11})$ $+\frac{2}{11}\sqrt{21}e^3 \otimes e_7 + \frac{7}{11}e^1 \otimes e_2$	{145678, 14578, 1478, 1567, 157, 17, 245678, 24578, 2478, 2567, 257, 27}
82:2	$0, 0, 0, 0, 0, \frac{20}{359}\sqrt{39}e^{12}, \frac{14}{359}\sqrt{130}e^{34}$	$(\frac{41}{359}, -\frac{89}{359}, \frac{82}{359}, -\frac{62}{359}, \frac{150}{359}, \frac{36}{359}, -\frac{48}{359}, \frac{20}{359})$ $+\frac{130}{359}e^1 \otimes e_2 + \frac{24}{359}\sqrt{65}e^3 \otimes e_7 + \frac{2}{359}\sqrt{7410}e^5 \otimes e_8$	{14678, 1478, 1567, 157, 24678, 2478, 2567, 257}
82:2	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{11}e^{12}, \frac{1}{7}\sqrt{11}e^{34}$	$(\frac{13}{14}, -\frac{9}{14}, \frac{1}{7}, \frac{1}{7}, \frac{3}{14}, \frac{3}{14}, \frac{2}{7}, \frac{2}{7})$ $+\frac{11}{7}e^1 \otimes e_2$	{134567, 13457, 1347, 135678, 13578, 1378, 1567, 157, 17, 234567, 23457, 2347, 235678, 23578, 2378, 2567, 257, 27}
82:2	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{3}e^{12}, \frac{1}{5}\sqrt{3}e^{34}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0)$ $+\frac{1}{5}e^5 \otimes e_6 + \frac{2}{5}e^1 \otimes e_8 + \frac{2}{5}e^3 \otimes e_7$	{12345, 12346, 157, 167, 24578, 24678}
82:2	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{391}e^{12}, \frac{1}{102}\sqrt{690}e^{34}$	$(\frac{7}{204}, \frac{11}{102}, -\frac{1}{17}, -\frac{1}{17}, \frac{25}{68}, -\frac{13}{68}, \frac{29}{204}, -\frac{2}{17})$ $+\frac{1}{102}\sqrt{1311}e^1 \otimes e_6 + \frac{1}{102}\sqrt{1311}e^5 \otimes e_7 + \frac{1}{17}\sqrt{46}e^2 \otimes e_8$	{12345, 125, 1378, 23467, 267, 3568}
82:2	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{11}e^{12}, \frac{1}{7}\sqrt{11}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{4}{7}, \frac{2}{7}, \frac{2}{7})$ $+\frac{11}{7}e^5 \otimes e_6$	{12345, 12346, 12358, 12368, 125, 126, 13578, 13678, 157, 167, 5, 6}
82:2	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12}, \frac{12}{71}\sqrt{5}e^{34}$	$(\frac{15}{71}, -\frac{21}{71}, -\frac{3}{71}, -\frac{3}{71}, \frac{30}{71}, \frac{30}{71}, -\frac{6}{71}, -\frac{6}{71})$ $+\frac{36}{71}e^1 \otimes e_2 + \frac{6}{71}\sqrt{46}e^5 \otimes e_7 + \frac{6}{71}\sqrt{46}e^6 \otimes e_8$	{13467, 1378, 167, 23467, 2378, 267}
82:2	$0, 0, 0, 0, 0, \frac{4}{283}\sqrt{327}e^{12}, \frac{2}{283}\sqrt{6322}e^{34}$	$(\frac{133}{283}, -\frac{85}{283}, \frac{116}{283}, -\frac{22}{283}, -\frac{102}{283}, \frac{36}{283}, \frac{48}{283}, \frac{94}{283})$ $+\frac{218}{283}e^1 \otimes e_2 + \frac{2}{283}\sqrt{15042}e^3 \otimes e_5$	{13467, 1347, 13678, 1378, 145678, 14578, 1567, 157, 23467, 2347, 23678, 2378, 245678, 24578, 2567, 257}
82:2	$0, 0, 0, 0, 0, \frac{4}{283}\sqrt{327}e^{12}, \frac{2}{283}\sqrt{6322}e^{34}$	$(\frac{133}{283}, -\frac{85}{283}, -\frac{22}{283}, -\frac{22}{283}, \frac{174}{283}, \frac{36}{283}, \frac{48}{283}, -\frac{44}{283})$ $+\frac{218}{283}e^1 \otimes e_2 + \frac{2}{283}\sqrt{15042}e^5 \otimes e_8$	{134567, 13457, 13678, 1378, 1567, 157, 234567, 23457, 23678, 2378, 2567, 257}
82:2	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{130}e^{12}, \frac{10}{147}\sqrt{39}e^{34}$	$(\frac{41}{147}, -\frac{31}{147}, -\frac{4}{49}, -\frac{4}{49}, \frac{25}{49}, \frac{6}{49}, \frac{10}{49}, -\frac{8}{49})$ $+\frac{1}{147}\sqrt{7410}e^5 \otimes e_7 + \frac{4}{49}\sqrt{65}e^1 \otimes e_8$	{12345, 123456, 125, 1256, 13467, 1347, 167, 17, 23678, 2378, 3568, 358}
82:3	$0, 0, 0, 0, 0, \frac{6}{49}\sqrt{17}e^{12}, \frac{6}{49}\sqrt{17}e^{13} + \frac{4}{49}\sqrt{17}e^{24}$	$(-\frac{12}{49}, \frac{1}{49}, \frac{23}{49}, \frac{10}{49}, \frac{23}{49}, -\frac{11}{49}, -\frac{11}{49}, \frac{11}{49})$ $+\frac{2}{49}\sqrt{442}e^3 \otimes e_7 + \frac{34}{49}e^5 \otimes e_6$	{1235, 1236, 1578, 1678, 257, 267, 358, 368}
82:3	$0, 0, 0, 0, 0, \frac{1}{427}\sqrt{32314}e^{12}, \frac{4}{427}\sqrt{642}e^{13} + \frac{2}{427}\sqrt{1177}e^{24}$	$(\frac{55}{427}, -\frac{4}{427}, -\frac{52}{427}, \frac{1}{61}, \frac{158}{427}, -\frac{111}{427}, \frac{51}{427}, \frac{3}{427})$ $+\frac{1}{427}\sqrt{27606}e^1 \otimes e_3 + \frac{1}{427}\sqrt{27606}e^5 \otimes e_7 + \frac{2}{427}\sqrt{7490}e^2 \otimes e_6$	{1245, 167, 2347, 356}
82:3	$0, 0, 0, 0, 0, \frac{3}{16}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13} + \frac{1}{8}\sqrt{17}e^{24}$	$(-\frac{3}{8}, \frac{1}{32}, \frac{23}{32}, \frac{5}{16}, \frac{3}{16}, \frac{3}{16}, -\frac{11}{32}, \frac{11}{32})$ $+\frac{1}{16}\sqrt{442}e^3 \otimes e_7$	{123, 1235, 12356, 15678, 1578, 178, 2567, 257, 27, 3568, 358, 38}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2726}e^{12}, \frac{2}{121}\sqrt{145}e^{13} + \frac{2}{121}\sqrt{145}e^{24}$	$\left(\frac{8}{121}, \frac{8}{121}, -\frac{21}{121}, -\frac{21}{121}, \frac{45}{121}, \frac{7}{121}, \frac{16}{121}, -\frac{13}{121}\right)$ $+ \frac{2}{121}\sqrt{551}e^1 \otimes e_3 - \frac{2}{121}\sqrt{551}e^2 \otimes e_4 + \frac{2}{121}\sqrt{551}e^5 \otimes e_7$	{125, 1256, 1467, 147, 345, 3456}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2726}e^{12}, \frac{2}{121}\sqrt{145}e^{13} + \frac{2}{121}\sqrt{145}e^{24}$	$\left(\frac{8}{121}, \frac{8}{121}, -\frac{21}{121}, -\frac{21}{121}, \frac{45}{121}, \frac{7}{121}, \frac{16}{121}, -\frac{13}{121}\right)$ $+ \frac{2}{121}\sqrt{551}e^1 \otimes e_3 + \frac{2}{121}\sqrt{551}e^2 \otimes e_4 + \frac{2}{121}\sqrt{551}e^5 \otimes e_7$	{125, 1256, 1467, 147, 345, 3456}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13} + \frac{3}{16}\sqrt{17}e^{24}$	$\left(\frac{1}{32}, \frac{1}{32}, -\frac{3}{32}, -\frac{3}{32}, 1, \frac{3}{16}, \frac{1}{16}, -\frac{1}{16}\right)$ $+ \frac{1}{16}\sqrt{442}e^5 \otimes e_8$	{1234567, 123457, 12678, 1278, 135, 1356, 1468, 148, 34678, 3478, 567, 57}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{12}{619}\sqrt{311}e^{13} + \frac{2}{619}\sqrt{11818}e^{24}$	$\left(\frac{190}{619}, \frac{80}{619}, -\frac{121}{619}, -\frac{11}{619}, -\frac{231}{619}, \frac{65}{619}, \frac{270}{619}, \frac{69}{619}\right)$ $+ \frac{2}{619}\sqrt{40119}e^1 \otimes e_3 + \frac{4}{619}\sqrt{11507}e^2 \otimes e_5$	{124, 1246, 1567, 157, 23467, 2347, 35, 356}
82:3	$0, 0, 0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{4}{23}\sqrt{6}e^{13} + \frac{8}{23}e^{24}$	$\left(\frac{8}{23}, -\frac{2}{23}, 0, \frac{10}{23}, -\frac{8}{23}, -\frac{6}{23}, \frac{6}{23}, \frac{8}{23}\right)$ $+ \frac{12}{23}\sqrt{2}e^4 \otimes e_6 + \frac{4}{23}\sqrt{22}e^1 \otimes e_5$	{1234, 1268, 1367, 1478, 235678, 2457, 3458, 56}
82:3	$0, 0, 0, 0, 0, 0, \frac{5}{43}\sqrt{14}e^{12}, \frac{5}{43}\sqrt{14}e^{13} + \frac{14}{43}e^{24}$	$\left(-\frac{3}{86}, -\frac{3}{86}, \frac{11}{43}, \frac{11}{43}, -\frac{31}{86}, \frac{4}{43}, -\frac{3}{43}, \frac{19}{86}\right)$ $+ \frac{1}{43}\sqrt{546}e^1 \otimes e_5 + \frac{1}{43}\sqrt{546}e^3 \otimes e_7$	{123, 1236, 1678, 178, 2567, 257, 3568, 358}
82:3	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{62}e^{12}, \frac{1}{59}\sqrt{1054}e^{13} + \frac{2}{59}\sqrt{62}e^{24}$	$\left(\frac{12}{59}, -\frac{1}{59}, -\frac{10}{59}, \frac{3}{59}, \frac{33}{59}, -\frac{19}{59}, \frac{11}{59}, \frac{2}{59}\right)$ $+ \frac{2}{59}\sqrt{403}e^1 \otimes e_6 + \frac{2}{59}\sqrt{403}e^5 \otimes e_8$	{12345, 128, 1357, 1478, 23678, 24567, 3468, 56}
82:3	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{58}e^{12}, \frac{1}{67}\sqrt{87}e^{13} + \frac{1}{67}\sqrt{87}e^{24}$	$\left(\frac{11}{67}, \frac{11}{67}, -\frac{18}{67}, -\frac{18}{67}, \frac{22}{67}, \frac{6}{67}, \frac{22}{67}, -\frac{7}{67}\right)$ $+ \frac{3}{67}\sqrt{145}e^1 \otimes e_3 - \frac{3}{67}\sqrt{145}e^2 \otimes e_4 + \frac{4}{67}\sqrt{58}e^5 \otimes e_8$	{1268, 128, 14678, 1478, 3468, 348}
82:3	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{58}e^{12}, \frac{1}{67}\sqrt{87}e^{13} + \frac{1}{67}\sqrt{87}e^{24}$	$\left(\frac{11}{67}, \frac{11}{67}, -\frac{18}{67}, -\frac{18}{67}, \frac{22}{67}, \frac{6}{67}, \frac{22}{67}, -\frac{7}{67}\right)$ $+ \frac{3}{67}\sqrt{145}e^1 \otimes e_3 + \frac{3}{67}\sqrt{145}e^2 \otimes e_4 + \frac{4}{67}\sqrt{58}e^5 \otimes e_8$	{1268, 128, 14678, 1478, 3468, 348}
82:3	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{62}e^{12}, \frac{1}{59}\sqrt{1054}e^{13} + \frac{2}{59}\sqrt{62}e^{24}$	$\left(-\frac{14}{59}, -\frac{1}{59}, \frac{16}{59}, \frac{3}{59}, \frac{33}{59}, \frac{7}{59}, -\frac{15}{59}, \frac{2}{59}\right)$ $+ \frac{2}{59}\sqrt{403}e^3 \otimes e_7 + \frac{2}{59}\sqrt{403}e^5 \otimes e_8$	{12345, 123456, 14678, 1478, 24567, 2457, 3468, 348}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{331}\sqrt{24742}e^{12}, \frac{5}{331}\sqrt{278}e^{13} + \frac{1}{331}\sqrt{3614}e^{24}$	$\left(\frac{77}{331}, -\frac{75}{331}, -\frac{62}{331}, \frac{90}{331}, \frac{141}{331}, -\frac{49}{331}, \frac{2}{331}, \frac{15}{331}\right)$ $+ \frac{2}{331}\sqrt{5282}e^4 \otimes e_6 + \frac{2}{331}\sqrt{7923}e^1 \otimes e_3 + \frac{2}{331}\sqrt{7923}e^5 \otimes e_7$	{1245, 167, 2347, 356}
82:3	$0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{11}e^{12}, \frac{1}{21}\sqrt{33}e^{13} + \frac{1}{21}\sqrt{33}e^{24}$	$\left(\frac{5}{21}, -\frac{3}{14}, -\frac{2}{7}, \frac{1}{6}, \frac{23}{42}, \frac{2}{21}, \frac{1}{42}, -\frac{1}{21}\right)$ $+ \frac{1}{21}\sqrt{209}e^1 \otimes e_3 + \frac{1}{21}\sqrt{209}e^5 \otimes e_7$	{125, 1256, 1467, 147, 2367, 237, 345, 3456}
82:3	$0, 0, 0, 0, 0, 0, \frac{12}{619}\sqrt{311}e^{12}, \frac{1}{619}\sqrt{127510}e^{13} + \frac{2}{619}\sqrt{11818}e^{24}$	$\left(-\frac{68}{619}, \frac{61}{619}, \frac{118}{619}, -\frac{11}{619}, \frac{361}{619}, -\frac{193}{619}, -\frac{7}{619}, \frac{50}{619}\right)$ $+ \frac{2}{619}\sqrt{40119}e^3 \otimes e_6 + \frac{4}{619}\sqrt{11507}e^5 \otimes e_8$	{123457, 12678, 135, 1468, 238, 2456, 3478, 567}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{2}{619}\sqrt{11818}e^{13} + \frac{12}{619}\sqrt{311}e^{24}$	$\left(\frac{80}{619}, -\frac{68}{619}, -\frac{11}{619}, \frac{137}{619}, \frac{323}{619}, -\frac{231}{619}, \frac{12}{619}, \frac{69}{619}\right)$ $+ \frac{2}{619}\sqrt{40119}e^5 \otimes e_7 + \frac{4}{619}\sqrt{11507}e^1 \otimes e_6$	{1235, 12458, 1347, 178, 234678, 267, 3568, 456}
82:3	$0, 0, 0, 0, 0, 0, \frac{8}{23}e^{12}, \frac{4}{23}\sqrt{6}e^{13} + \frac{4}{23}\sqrt{6}e^{24}$	$\left(\frac{7}{23}, -\frac{2}{23}, -\frac{9}{23}, 0, \frac{14}{23}, \frac{3}{23}, \frac{5}{23}, -\frac{2}{23}\right)$ $+ \frac{12}{23}\sqrt{2}e^1 \otimes e_3 + \frac{4}{23}\sqrt{22}e^5 \otimes e_8$	{1268, 128, 14678, 1478, 23678, 2378, 3468, 348}
82:3	$0, 0, 0, 0, 0, 0, \frac{2}{153}\sqrt{2006}e^{12}, \frac{4}{153}\sqrt{59}e^{13} + \frac{4}{153}\sqrt{59}e^{24}$	$\left(\frac{64}{153}, -\frac{4}{51}, -\frac{6}{17}, \frac{22}{153}, \frac{77}{153}, -\frac{41}{153}, \frac{52}{153}, \frac{10}{153}\right)$ $+ \frac{118}{153}e^5 \otimes e_6 + \frac{4}{153}\sqrt{1121}e^1 \otimes e_3$	{125, 126, 1457, 1467, 2357, 2367, 345, 346}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12}, \frac{2}{47}\sqrt{59}e^{13} + \frac{2}{47}\sqrt{59}e^{24}$	$\left(\frac{32}{47}, -\frac{6}{47}, -\frac{27}{47}, \frac{11}{47}, \frac{9}{47}, \frac{9}{47}, \frac{26}{47}, \frac{5}{47}\right)$ $+ \frac{2}{47}\sqrt{1121}e^1 \otimes e_3$	{12, 125, 1256, 14567, 1457, 147, 23567, 2357, 237, 34, 345, 3456}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:3	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1054}e^{12}, \frac{2}{59}\sqrt{62}e^{13} + \frac{2}{59}\sqrt{62}e^{24}$	$\left(\frac{12}{59}, \frac{12}{59}, \frac{3}{59}, \frac{3}{59}, -\frac{19}{59}, -\frac{19}{59}, \frac{24}{59}, \frac{15}{59}\right)$ $+ \frac{2}{59}\sqrt{403}e^1 \otimes e_5 + \frac{2}{59}\sqrt{403}e^2 \otimes e_6$	{1234, 128, 1367, 14678, 34568, 56}
82:3	$0, 0, 0, 0, 0, \frac{15}{173}\sqrt{30}e^{12}, \frac{15}{173}\sqrt{30}e^{13} + \frac{5}{173}\sqrt{110}e^{24}$	$\left(-\frac{33}{173}, \frac{5}{173}, \frac{70}{173}, \frac{32}{173}, \frac{97}{173}, -\frac{55}{173}, -\frac{28}{173}, \frac{37}{173}\right)$ $+ \frac{10}{173}\sqrt{190}e^3 \otimes e_6 + \frac{10}{173}\sqrt{190}e^5 \otimes e_7$	{1235, 124568, 1347, 1678, 23478, 267, 358, 456}
82:3	$0, 0, 0, 0, 0, \frac{10}{113}\sqrt{10}e^{12}, \frac{5}{113}\sqrt{66}e^{13} + \frac{10}{113}\sqrt{3}e^{24}$	$\left(-\frac{5}{113}, -\frac{5}{113}, \frac{15}{113}, \frac{15}{113}, \frac{35}{113}, -\frac{30}{113}, -\frac{10}{113}, \frac{10}{113}\right)$ $+ \frac{10}{113}\sqrt{13}e^5 \otimes e_8 + \frac{5}{113}\sqrt{78}e^1 \otimes e_6 + \frac{5}{113}\sqrt{78}e^3 \otimes e_7$	{1235, 178, 2567, 368}
82:3	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{58}e^{12}, \frac{1}{67}\sqrt{87}e^{13} + \frac{1}{67}\sqrt{87}e^{24}$	$\left(\frac{11}{67}, -\frac{23}{134}, -\frac{18}{67}, \frac{9}{134}, \frac{57}{134}, \frac{22}{67}, -\frac{1}{134}, -\frac{7}{67}\right)$ $+ \frac{3}{67}\sqrt{145}e^1 \otimes e_3 + \frac{3}{67}\sqrt{145}e^5 \otimes e_7 + \frac{4}{67}\sqrt{58}e^6 \otimes e_8$	{1258, 1478, 2378, 3458}
82:3	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{11}e^{12}, \frac{1}{21}\sqrt{33}e^{13} + \frac{1}{21}\sqrt{33}e^{24}$	$\left(\frac{5}{21}, \frac{5}{21}, -\frac{2}{7}, -\frac{2}{7}, \frac{2}{21}, \frac{2}{21}, \frac{10}{21}, -\frac{1}{21}\right)$ $+ \frac{1}{21}\sqrt{209}e^1 \otimes e_3 - \frac{1}{21}\sqrt{209}e^2 \otimes e_4$	{12, 125, 1256, 14567, 1457, 147, 34, 345, 3456}
82:3	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{11}e^{12}, \frac{1}{21}\sqrt{33}e^{13} + \frac{1}{21}\sqrt{33}e^{24}$	$\left(\frac{5}{21}, \frac{5}{21}, -\frac{2}{7}, -\frac{2}{7}, \frac{2}{21}, \frac{2}{21}, \frac{10}{21}, -\frac{1}{21}\right)$ $+ \frac{1}{21}\sqrt{209}e^1 \otimes e_3 + \frac{1}{21}\sqrt{209}e^2 \otimes e_4$	{12, 125, 1256, 14567, 1457, 147, 34, 345, 3456}
82:3	$0, 0, 0, 0, 0, \frac{8}{53}\sqrt{11}e^{12}, \frac{2}{53}\sqrt{33}e^{13} + \frac{2}{53}\sqrt{33}e^{24}$	$\left(\frac{10}{53}, \frac{10}{53}, -\frac{12}{53}, -\frac{12}{53}, \frac{15}{53}, -\frac{7}{53}, \frac{20}{53}, -\frac{2}{53}\right)$ $+ \frac{22}{53}e^5 \otimes e_6 + \frac{2}{53}\sqrt{209}e^1 \otimes e_3 - \frac{2}{53}\sqrt{209}e^2 \otimes e_4$	{125, 126, 1457, 1467, 345, 346}
82:3	$0, 0, 0, 0, 0, \frac{8}{53}\sqrt{11}e^{12}, \frac{2}{53}\sqrt{33}e^{13} + \frac{2}{53}\sqrt{33}e^{24}$	$\left(\frac{10}{53}, \frac{10}{53}, -\frac{12}{53}, -\frac{12}{53}, \frac{15}{53}, -\frac{7}{53}, \frac{20}{53}, -\frac{2}{53}\right)$ $+ \frac{22}{53}e^5 \otimes e_6 + \frac{2}{53}\sqrt{209}e^1 \otimes e_3 + \frac{2}{53}\sqrt{209}e^2 \otimes e_4$	{125, 126, 1457, 1467, 345, 346}
82:3	$0, 0, 0, 0, 0, \frac{8}{23}e^{12}, \frac{4}{23}\sqrt{6}e^{13} + \frac{4}{23}\sqrt{6}e^{24}$	$\left(-\frac{2}{23}, -\frac{2}{23}, 0, 0, \frac{12}{23}, \frac{14}{23}, -\frac{4}{23}, -\frac{2}{23}\right)$ $+ \frac{12}{23}\sqrt{2}e^5 \otimes e_7 + \frac{4}{23}\sqrt{22}e^6 \otimes e_8$	{123456, 1258, 1367, 1478, 3458, 56}
82:3	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{42}e^{12}, \frac{2}{43}\sqrt{42}e^{13} + \frac{2}{43}\sqrt{42}e^{24}$	$\left(\frac{5}{43}, -\frac{8}{43}, -\frac{2}{43}, \frac{11}{43}, \frac{17}{43}, -\frac{9}{43}, -\frac{3}{43}, \frac{3}{43}\right)$ $+ \frac{2}{43}\sqrt{91}e^1 \otimes e_6 + \frac{2}{43}\sqrt{91}e^4 \otimes e_7 + \frac{2}{43}\sqrt{91}e^5 \otimes e_8$	{12345, 1357, 23678, 3468}
82:3	$0, 0, 0, 0, 0, \frac{44}{1147}\sqrt{3}e^{12}, \frac{44}{1147}\sqrt{43}e^{13} + \frac{44}{1147}\sqrt{138}e^{24}$	$\left(\frac{264}{1147}, -\frac{165}{1147}, -\frac{220}{1147}, \frac{209}{1147}, \frac{528}{1147}, -\frac{275}{1147}, \frac{99}{1147}, \frac{44}{1147}\right)$ $+ \frac{22}{1147}\sqrt{478}e^1 \otimes e_3 + \frac{44}{1147}\sqrt{190}e^4 \otimes e_6 + \frac{66}{1147}\sqrt{94}e^5 \otimes e_8$	{12678, 148, 2368, 3478}
82:3	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12}, \frac{2}{47}\sqrt{59}e^{13} + \frac{2}{47}\sqrt{59}e^{24}$	$\left(-\frac{6}{47}, -\frac{6}{47}, \frac{11}{47}, \frac{11}{47}, 1, \frac{9}{47}, -\frac{12}{47}, \frac{5}{47}\right)$ $+ \frac{2}{47}\sqrt{1121}e^5 \otimes e_7$	{1234568, 123458, 125, 1256, 13678, 1378, 1467, 147, 345, 3456, 568, 58}
82:3	$0, 0, 0, 0, 0, \frac{5}{173}\sqrt{110}e^{12}, \frac{15}{173}\sqrt{30}e^{13} + \frac{15}{173}\sqrt{30}e^{24}$	$\left(\frac{5}{173}, \frac{5}{173}, \frac{70}{173}, \frac{70}{173}, -\frac{55}{173}, -\frac{55}{173}, \frac{10}{173}, \frac{75}{173}\right)$ $+ \frac{10}{173}\sqrt{190}e^3 \otimes e_5 + \frac{10}{173}\sqrt{190}e^4 \otimes e_6$	{12347, 125678, 136, 1458, 3478, 567}
82:3	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{59}e^{12}, \frac{1}{47}\sqrt{2006}e^{13} + \frac{2}{47}\sqrt{59}e^{24}$	$\left(-\frac{6}{47}, \frac{13}{47}, \frac{30}{47}, \frac{11}{47}, -\frac{29}{47}, \frac{9}{47}, \frac{7}{47}, \frac{24}{47}\right)$ $+ \frac{2}{47}\sqrt{1121}e^3 \otimes e_5$	{12367, 1237, 1245678, 124578, 134, 1346, 1568, 158, 23468, 2348, 25, 256, 3678, 378, 4567, 457}
82:3	$0, 0, 0, 0, 0, \frac{2}{619}\sqrt{11818}e^{12}, \frac{1}{619}\sqrt{127510}e^{13} + \frac{12}{619}\sqrt{311}e^{24}$	$\left(\frac{80}{619}, \frac{61}{619}, \frac{118}{619}, \frac{137}{619}, -\frac{231}{619}, -\frac{193}{619}, \frac{141}{619}, \frac{198}{619}\right)$ $+ \frac{2}{619}\sqrt{40119}e^3 \otimes e_6 + \frac{4}{619}\sqrt{11507}e^1 \otimes e_5$	{123, 12468, 1347, 1678, 234578, 2567, 358, 456}
82:3	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{8}{23}e^{13} + \frac{4}{23}\sqrt{6}e^{24}$	$\left(-\frac{2}{23}, -\frac{3}{23}, \frac{10}{23}, \frac{11}{23}, -\frac{6}{23}, \frac{3}{23}, -\frac{5}{23}, \frac{8}{23}\right)$ $+ \frac{12}{23}\sqrt{2}e^3 \otimes e_5 + \frac{4}{23}\sqrt{22}e^4 \otimes e_7$	{1234, 12346, 1367, 137, 23678, 2378, 3468, 348}
82:3	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{127510}e^{12}, \frac{12}{619}\sqrt{311}e^{13} + \frac{2}{619}\sqrt{11818}e^{24}$	$\left(\frac{190}{619}, -\frac{216}{619}, -\frac{121}{619}, \frac{285}{619}, \frac{65}{619}, \frac{65}{619}, -\frac{26}{619}, \frac{69}{619}\right)$ $+ \frac{2}{619}\sqrt{40119}e^1 \otimes e_3 + \frac{4}{619}\sqrt{11507}e^4 \otimes e_7$	{124, 1245, 12456, 1567, 157, 17}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:3	$0, 0, 0, 0, 0, 0, \frac{2}{1549}\sqrt{127510}e^{12}, \frac{24}{1549}\sqrt{311}e^{13} + \frac{4}{1549}\sqrt{11818}e^{24}$	$(\frac{380}{1549}, -\frac{432}{1549}, -\frac{242}{1549}, \frac{570}{1549}, \frac{441}{1549}, -\frac{181}{1549}, -\frac{52}{1549}, \frac{138}{1549})$ $+ \frac{4}{1549}\sqrt{40119}e^1 \otimes e_3 + \frac{622}{1549}e^5 \otimes e_6 + \frac{8}{1549}\sqrt{11507}e^4 \otimes e_7$	{1245, 1246, 157, 167}
82:3	$0, 0, 0, 0, 0, 0, \frac{3}{16}\sqrt{17}e^{12}, \frac{3}{16}\sqrt{17}e^{13} + \frac{1}{8}\sqrt{17}e^{24}$	$(\frac{7}{16}, \frac{1}{32}, -\frac{3}{32}, \frac{5}{16}, -\frac{5}{8}, \frac{3}{16}, \frac{15}{32}, \frac{11}{32})$ $+ \frac{1}{16}\sqrt{442}e^1 \otimes e_5$	{123, 1236, 12468, 1248, 13467, 1347, 1678, 178, 2345678, 234578, 2567, 257, 3568, 358, 45, 456}
82:3	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{74}e^{12}, \frac{2}{47}\sqrt{74}e^{13} + \frac{2}{47}\sqrt{74}e^{24}$	$(\frac{6}{47}, \frac{6}{47}, \frac{8}{47}, \frac{8}{47}, 1, -\frac{27}{47}, \frac{12}{47}, \frac{14}{47})$ $+ \frac{74}{47}e^5 \otimes e_6$	{12345, 12346, 1258, 1268, 1357, 1367, 14578, 14678, 3458, 3468, 5, 6}
82:3	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1054}e^{12}, \frac{2}{59}\sqrt{62}e^{13} + \frac{2}{59}\sqrt{62}e^{24}$	$(\frac{12}{59}, -\frac{14}{59}, \frac{3}{59}, \frac{29}{59}, -\frac{19}{59}, \frac{7}{59}, -\frac{2}{59}, \frac{15}{59})$ $+ \frac{2}{59}\sqrt{403}e^1 \otimes e_5 + \frac{2}{59}\sqrt{403}e^4 \otimes e_7$	{1234, 12346, 1367, 137, 235678, 23578, 34568, 3458}
82:3	$0, 0, 0, 0, 0, 0, \frac{15}{173}\sqrt{30}e^{12}, \frac{5}{173}\sqrt{110}e^{13} + \frac{15}{173}\sqrt{30}e^{24}$	$(\frac{81}{173}, -\frac{33}{173}, -\frac{44}{173}, \frac{70}{173}, -\frac{55}{173}, \frac{21}{173}, \frac{48}{173}, \frac{37}{173})$ $+ \frac{10}{173}\sqrt{190}e^1 \otimes e_3 + \frac{10}{173}\sqrt{190}e^4 \otimes e_5$	{124, 1246, 1567, 157, 23467, 2347, 35, 356}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{13} + \frac{1}{28}\sqrt{174}e^{24}, -\frac{1}{28}\sqrt{493}e^{12} + \frac{1}{28}\sqrt{174}e^{34}$	$(\frac{11}{28}, -\frac{1}{56}, -\frac{1}{56}, \frac{11}{28}, -\frac{9}{14}, \frac{5}{28}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{28}\sqrt{1334}e^1 \otimes e_5$	{123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456, 123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{13} + \frac{1}{28}\sqrt{174}e^{24}, \frac{1}{28}\sqrt{493}e^{12} + \frac{1}{28}\sqrt{174}e^{34}$	$(\frac{11}{28}, -\frac{1}{56}, -\frac{1}{56}, \frac{11}{28}, -\frac{9}{14}, \frac{5}{28}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{28}\sqrt{1334}e^1 \otimes e_5$	{123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456, 123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456}
82:4	$0, 0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{13} + \frac{6}{53}\sqrt{10}e^{24}, -\frac{6}{53}\sqrt{10}e^{12} + \frac{6}{53}\sqrt{10}e^{34}$	$(-\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{30}{53}, \frac{30}{53}, -\frac{6}{53}, -\frac{6}{53})$ $+ \frac{6}{53}\sqrt{46}e^5 \otimes e_7 + \frac{6}{53}\sqrt{46}e^6 \otimes e_8$	{123456, 1267, 1478, 56, 123456, 1267, 1478, 56}
82:4	$0, 0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{13} + \frac{6}{53}\sqrt{10}e^{24}, \frac{6}{53}\sqrt{10}e^{12} + \frac{6}{53}\sqrt{10}e^{34}$	$(-\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{30}{53}, \frac{30}{53}, -\frac{6}{53}, -\frac{6}{53})$ $+ \frac{6}{53}\sqrt{46}e^5 \otimes e_7 + \frac{6}{53}\sqrt{46}e^6 \otimes e_8$	{123456, 1267, 1478, 56, 123456, 1267, 1478, 56}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{13} + \frac{1}{28}\sqrt{493}e^{24}, -\frac{1}{28}\sqrt{174}e^{12} + \frac{1}{28}\sqrt{174}e^{34}$	$(-\frac{1}{56}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{56}, 1, \frac{5}{28}, -\frac{1}{28}, -\frac{1}{28})$ $+ \frac{1}{28}\sqrt{1334}e^5 \otimes e_7$	{1234568, 123458, 12678, 1278, 135, 1356, 1467, 147, 568, 58, 1234568, 123458, 12678, 1278, 135, 1356, 1467, 147, 568, 58}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{493}e^{13} + \frac{1}{28}\sqrt{493}e^{24}, \frac{1}{28}\sqrt{174}e^{12} + \frac{1}{28}\sqrt{174}e^{34}$	$(-\frac{1}{56}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{56}, 1, \frac{5}{28}, -\frac{1}{28}, -\frac{1}{28})$ $+ \frac{1}{28}\sqrt{1334}e^5 \otimes e_7$	{1234568, 123458, 12678, 1278, 135, 1356, 1467, 147, 568, 58, 1234568, 123458, 12678, 1278, 135, 1356, 1467, 147, 568, 58}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{22}e^{13} + \frac{1}{14}\sqrt{22}e^{24}, -\frac{1}{14}\sqrt{22}e^{12} + \frac{1}{14}\sqrt{22}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{4}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{11}{7}e^5 \otimes e_6$	{12345, 12346, 1257, 1267, 14578, 14678, 5, 6, 12345, 12346, 1257, 1267, 14578, 14678, 5, 6}
82:4	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{22}e^{13} + \frac{1}{14}\sqrt{22}e^{24}, \frac{1}{14}\sqrt{22}e^{12} + \frac{1}{14}\sqrt{22}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{4}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{11}{7}e^5 \otimes e_6$	{12345, 12346, 1257, 1267, 14578, 14678, 5, 6, 12345, 12346, 1257, 1267, 14578, 14678, 5, 6}
82:4	$0, 0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{13} + \frac{6}{53}\sqrt{10}e^{24}, -\frac{6}{53}\sqrt{10}e^{12} + \frac{6}{53}\sqrt{10}e^{34}$	$(\frac{20}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{20}{53}, -\frac{16}{53}, -\frac{16}{53}, \frac{17}{53}, \frac{17}{53})$ $+ \frac{6}{53}\sqrt{46}e^1 \otimes e_5 + \frac{6}{53}\sqrt{46}e^4 \otimes e_6$	{1234, 1267, 1478, 235678, 56, 1234, 1267, 1478, 235678, 56}
82:4	$0, 0, 0, 0, 0, 0, \frac{6}{53}\sqrt{10}e^{13} + \frac{6}{53}\sqrt{10}e^{24}, \frac{6}{53}\sqrt{10}e^{12} + \frac{6}{53}\sqrt{10}e^{34}$	$(\frac{20}{53}, -\frac{3}{53}, -\frac{3}{53}, \frac{20}{53}, -\frac{16}{53}, -\frac{16}{53}, \frac{17}{53}, \frac{17}{53})$ $+ \frac{6}{53}\sqrt{46}e^1 \otimes e_5 + \frac{6}{53}\sqrt{46}e^4 \otimes e_6$	{1234, 1267, 1478, 235678, 56, 1234, 1267, 1478, 235678, 56}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{89}\sqrt{341}e^{12}, \frac{1}{89}\sqrt{930}e^{13} + \frac{1}{178}\sqrt{2418}e^{45}$	$(\frac{105}{356}, -\frac{47}{178}, -\frac{81}{356}, \frac{3}{89}, \frac{3}{89}, \frac{197}{356}, \frac{11}{356}, \frac{6}{89})$ $+ \frac{3}{178}\sqrt{1643}e^1 \otimes e_3 + \frac{3}{178}\sqrt{1643}e^6 \otimes e_7$	{12456, 126, 1457, 17, 23457, 237, 3456, 36}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2337}e^{12}, \frac{2}{199}\sqrt{2091}e^{13} + \frac{12}{199}\sqrt{246}e^{45}$	$(\frac{38}{199}, \frac{21}{199}, \frac{57}{199}, \frac{127}{199}, -\frac{32}{199}, -\frac{119}{199}, \frac{59}{199}, \frac{95}{199})$ $+ \frac{6}{199}\sqrt{2173}e^4 \otimes e_6$	{12348, 123568, 1245, 126, 13478, 135678, 1457, 167, 23457, 2367, 2478, 25678, 345, 36, 48, 568}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{337}\sqrt{1073}e^{12}, \frac{4}{337}\sqrt{551}e^{13} + \frac{8}{337}\sqrt{406}e^{45}$	$(\frac{36}{337}, -\frac{80}{337}, \frac{71}{337}, \frac{35}{337}, \frac{72}{337}, \frac{81}{337}, -\frac{44}{337}, \frac{107}{337})$ $+ \frac{2}{337}\sqrt{2262}e^1 \otimes e_2 + \frac{2}{337}\sqrt{8758}e^5 \otimes e_7 + \frac{4}{337}\sqrt{1653}e^4 \otimes e_6$	{13478, 167, 2367, 2478}
82:5	$0, 0, 0, 0, 0, 0, \frac{5}{101}\sqrt{222}e^{12}, \frac{2}{101}\sqrt{1443}e^{13} + \frac{2}{101}\sqrt{111}e^{45}$	$(\frac{50}{101}, -\frac{5}{101}, -\frac{6}{101}, \frac{22}{101}, \frac{22}{101}, -\frac{61}{101}, \frac{45}{101}, \frac{44}{101})$ $+ \frac{9}{101}\sqrt{222}e^1 \otimes e_6$	{1234, 12458, 128, 1347, 14578, 178, 2345678, 23678, 2467, 34568, 368, 46}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{1621}\sqrt{8710}e^{12}, \frac{2}{1621}\sqrt{142710}e^{13} + \frac{8}{1621}\sqrt{2010}e^{45}$	$(\frac{156}{1621}, -\frac{514}{1621}, \frac{312}{1621}, -\frac{101}{1621}, \frac{569}{1621}, \frac{138}{1621}, -\frac{358}{1621}, \frac{468}{1621})$ $+ \frac{20}{1621}\sqrt{2010}e^3 \otimes e_7 + \frac{4}{1621}\sqrt{45895}e^1 \otimes e_2 + \frac{670}{1621}e^5 \otimes e_4$	{2467, 247, 2567, 257}
82:5	$0, 0, 0, 0, 0, 0, \frac{7}{109}\sqrt{37}e^{12}, \frac{7}{109}\sqrt{2}e^{13} + \frac{7}{218}\sqrt{66}e^{45}$	$(\frac{21}{436}, \frac{21}{218}, -\frac{77}{436}, -\frac{7}{109}, -\frac{7}{109}, \frac{161}{436}, \frac{63}{436}, -\frac{14}{109})$ $+ \frac{7}{109}\sqrt{38}e^2 \otimes e_8 + \frac{7}{218}\sqrt{123}e^1 \otimes e_3 + \frac{7}{218}\sqrt{123}e^6 \otimes e_7$	{12456, 126, 23457, 237}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{655}\sqrt{5258}e^{12}, \frac{2}{655}\sqrt{14579}e^{13} + \frac{1}{655}\sqrt{123802}e^{45}$	$(\frac{3}{131}, -\frac{107}{655}, \frac{191}{655}, \frac{59}{655}, \frac{147}{655}, -\frac{36}{131}, \frac{92}{655}, \frac{206}{655})$ $+ \frac{1}{655}\sqrt{119022}e^4 \otimes e_6 + \frac{1}{655}\sqrt{161086}e^5 \otimes e_7$	{123568, 1245, 13478, 167, 2367, 2478, 345, 568}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{42}e^{12}, \frac{2}{103}\sqrt{462}e^{13} + \frac{4}{103}\sqrt{42}e^{45}$	$(-\frac{20}{103}, \frac{2}{103}, \frac{24}{103}, \frac{23}{103}, -\frac{19}{103}, \frac{46}{103}, -\frac{18}{103}, \frac{4}{103})$ $+ \frac{12}{103}\sqrt{21}e^3 \otimes e_7 + \frac{12}{103}\sqrt{21}e^6 \otimes e_8 + \frac{42}{103}e^4 \otimes e_5$	{1478, 1578, 348, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{1}{41}\sqrt{462}e^{13} + \frac{2}{41}\sqrt{42}e^{45}$	$(-\frac{10}{41}, \frac{1}{41}, \frac{12}{41}, \frac{1}{41}, \frac{1}{41}, \frac{23}{41}, -\frac{9}{41}, \frac{2}{41})$ $+ \frac{6}{41}\sqrt{21}e^3 \otimes e_7 + \frac{6}{41}\sqrt{21}e^6 \otimes e_8$	{123456, 1236, 1478, 24567, 267, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{169}\sqrt{590}e^{12}, \frac{2}{169}\sqrt{1003}e^{13} + \frac{2}{169}\sqrt{649}e^{45}$	$(-\frac{59}{169}, \frac{55}{169}, \frac{55}{169}, -\frac{2}{169}, -\frac{2}{169}, \frac{20}{169}, -\frac{4}{169}, -\frac{4}{169})$ $+ \frac{1}{169}\sqrt{8142}e^3 \otimes e_7 + \frac{4}{169}\sqrt{590}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 14678, 1478, 24567, 2457, 267, 27, 3468, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{169}\sqrt{590}e^{12}, \frac{2}{169}\sqrt{1003}e^{13} + \frac{2}{169}\sqrt{649}e^{45}$	$(-\frac{59}{169}, \frac{55}{169}, \frac{55}{169}, -\frac{2}{169}, -\frac{2}{169}, \frac{20}{169}, -\frac{4}{169}, -\frac{4}{169})$ $- \frac{1}{169}\sqrt{8142}e^3 \otimes e_7 + \frac{4}{169}\sqrt{590}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 14678, 1478, 24567, 2457, 267, 27, 3468, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{643}\sqrt{8710}e^{12}, \frac{1}{643}\sqrt{142710}e^{13} + \frac{4}{643}\sqrt{2010}e^{45}$	$(\frac{78}{643}, -\frac{257}{643}, \frac{156}{643}, \frac{117}{643}, \frac{117}{643}, \frac{69}{643}, -\frac{179}{643}, \frac{234}{643})$ $+ \frac{10}{643}\sqrt{2010}e^3 \otimes e_7 + \frac{2}{643}\sqrt{45895}e^1 \otimes e_2$	{145678, 14578, 1678, 178, 2467, 247}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{643}\sqrt{2010}e^{12}, \frac{1}{643}\sqrt{142710}e^{13} + \frac{2}{643}\sqrt{8710}e^{45}$	$(\frac{178}{643}, -\frac{157}{643}, -\frac{144}{643}, \frac{17}{643}, \frac{17}{643}, \frac{369}{643}, \frac{21}{643}, \frac{34}{643})$ $+ \frac{10}{643}\sqrt{2010}e^6 \otimes e_8 + \frac{2}{643}\sqrt{45895}e^1 \otimes e_2$	{13456, 136, 148, 2348, 2456, 26}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1846}e^{12}, \frac{2}{323}\sqrt{781}e^{13} + \frac{6}{323}\sqrt{497}e^{45}$	$(\frac{48}{323}, \frac{96}{323}, -\frac{94}{323}, -\frac{23}{323}, -\frac{23}{323}, \frac{40}{323}, \frac{144}{323}, -\frac{46}{323})$ $+ \frac{8}{323}\sqrt{8733}e^1 \otimes e_3 + \frac{8}{323}\sqrt{710}e^2 \otimes e_8$	{14678, 1478, 3468, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{42}e^{12}, \frac{28}{65}e^{13} + \frac{2}{65}\sqrt{42}e^{45}$	$(\frac{2}{13}, -\frac{18}{65}, \frac{1}{5}, \frac{3}{65}, \frac{4}{13}, -\frac{3}{13}, -\frac{8}{65}, \frac{23}{65})$ $+ \frac{14}{65}\sqrt{6}e^1 \otimes e_2 + \frac{14}{65}\sqrt{6}e^3 \otimes e_6 + \frac{2}{65}\sqrt{238}e^5 \otimes e_7$	{137, 14678, 23478, 267}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{111}e^{12}, \frac{4}{313}\sqrt{1443}e^{13} + \frac{10}{313}\sqrt{222}e^{45}$	$(-\frac{8}{313}, \frac{44}{313}, -\frac{12}{313}, \frac{101}{313}, -\frac{121}{313}, \frac{202}{313}, \frac{36}{313}, -\frac{20}{313})$ $+ \frac{18}{313}\sqrt{222}e^6 \otimes e_8 + \frac{222}{313}e^4 \otimes e_5$	{12478, 12578, 148, 158, 2348, 2358, 3478, 3578}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{1846}e^{12}, \frac{1}{197}\sqrt{781}e^{13} + \frac{3}{197}\sqrt{497}e^{45}$	$(-\frac{75}{394}, \frac{48}{197}, \frac{29}{394}, \frac{24}{197}, -\frac{47}{197}, \frac{163}{394}, \frac{21}{394}, -\frac{23}{197})$ $+ \frac{1}{197}\sqrt{8733}e^6 \otimes e_7 + \frac{4}{197}\sqrt{710}e^2 \otimes e_8 + \frac{71}{197}e^4 \otimes e_5$	{1478, 1578, 3468, 3568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{1291}\sqrt{15555}e^{12}, \frac{20}{1291}\sqrt{170}e^{13} + \frac{4}{1291}\sqrt{14705}e^{45}$	$(\frac{206}{1291}, -\frac{247}{1291}, -\frac{134}{1291}, \frac{299}{1291}, -\frac{227}{1291}, \frac{412}{1291}, -\frac{41}{1291}, \frac{72}{1291})$ $+ \frac{2}{1291}\sqrt{49810}e^6 \otimes e_8 + \frac{2}{1291}\sqrt{60010}e^1 \otimes e_3 + \frac{4}{1291}\sqrt{22355}e^4 \otimes e_7$	{12456, 167, 2367, 3456}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{649}\sqrt{136718}e^{12}, \frac{2}{649}\sqrt{10063}e^{13} + \frac{2}{649}\sqrt{1041}e^{45}$	$(-\frac{179}{649}, \frac{151}{649}, \frac{29}{59}, \frac{70}{649}, \frac{70}{649}, -\frac{196}{649}, -\frac{28}{649}, \frac{140}{649})$ $+ \frac{1}{649}\sqrt{208894}e^3 \otimes e_7 + \frac{4}{649}\sqrt{11798}e^2 \otimes e_6$	{123, 12345, 14678, 2457, 27, 3468}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{246}e^{12}, \frac{1}{161}\sqrt{2091}e^{13} + \frac{1}{161}\sqrt{2337}e^{45}$	$(-\frac{15}{322}, \frac{127}{322}, \frac{57}{322}, \frac{72}{161}, -\frac{51}{161}, \frac{17}{46}, \frac{8}{23}, \frac{3}{23})$ $+ \frac{123}{161}e^4 \otimes e_5 + \frac{3}{161}\sqrt{2173}e^2 \otimes e_6$	{12348, 12358, 134678, 135678, 2478, 2578, 468, 568}
82:5	$0, 0, 0, 0, 0, 0, \frac{8}{1621}\sqrt{2010}e^{12}, \frac{2}{1621}\sqrt{142710}e^{13} + \frac{4}{1621}\sqrt{8710}e^{45}$	$(\frac{356}{1621}, -\frac{314}{1621}, -\frac{288}{1621}, \frac{369}{1621}, -\frac{301}{1621}, \frac{738}{1621}, \frac{42}{1621}, \frac{68}{1621})$ $+ \frac{20}{1621}\sqrt{2010}e^6 \otimes e_8 + \frac{4}{1621}\sqrt{45895}e^1 \otimes e_2 + \frac{670}{1621}e^4 \otimes e_5$	{148, 158, 2348, 2358}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{323}\sqrt{497}e^{12}, \frac{2}{323}\sqrt{781}e^{13} + \frac{4}{323}\sqrt{1846}e^{45}$	$(-\frac{2}{19}, \frac{137}{323}, \frac{29}{323}, \frac{59}{323}, -\frac{64}{323}, -\frac{83}{323}, \frac{103}{323}, -\frac{5}{323})$ $+ \frac{2}{323}\sqrt{8733}e^4 \otimes e_6 + \frac{8}{323}\sqrt{710}e^2 \otimes e_8$	{12345, 1236, 1478, 15678, 2457, 267, 348, 3568}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{541}\sqrt{87474}e^{12}, \frac{4}{541}\sqrt{239}e^{13} + \frac{2}{541}\sqrt{13623}e^{45}$	$(\frac{98}{541}, -\frac{117}{541}, \frac{74}{541}, \frac{220}{541}, -\frac{48}{541}, -\frac{141}{541}, -\frac{19}{541}, \frac{172}{541})$ $+ \frac{2}{541}\sqrt{32026}e^4 \otimes e_7 + \frac{3}{541}\sqrt{10994}e^1 \otimes e_6$	{12348, 1245, 13578, 17, 2367, 25678, 3456, 468}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{1429}\sqrt{55918}e^{12}, \frac{10}{1429}\sqrt{2298}e^{13} + \frac{2}{1429}\sqrt{2298}e^{45}$	$(\frac{294}{1429}, -\frac{472}{1429}, -\frac{18}{1429}, \frac{521}{1429}, -\frac{245}{1429}, \frac{588}{1429}, -\frac{178}{1429}, \frac{276}{1429})$ $+ \frac{2}{1429}\sqrt{175414}e^1 \otimes e_2 + \frac{4}{1429}\sqrt{43662}e^6 \otimes e_7 + \frac{766}{1429}e^4 \otimes e_5$	{1347, 1357, 247, 257}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{65}\sqrt{33}e^{12}, \frac{2}{325}\sqrt{1914}e^{13} + \frac{4}{65}\sqrt{33}e^{45}$	$(\frac{67}{325}, -\frac{74}{325}, \frac{1}{325}, \frac{9}{325}, \frac{59}{325}, -\frac{57}{325}, -\frac{7}{325}, \frac{68}{325})$ $+ \frac{2}{325}\sqrt{2739}e^1 \otimes e_3 + \frac{2}{325}\sqrt{2739}e^4 \otimes e_6 + \frac{2}{325}\sqrt{4389}e^5 \otimes e_7$	{1245, 167, 2367, 345}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{541}\sqrt{13623}e^{12}, \frac{4}{541}\sqrt{239}e^{13} + \frac{1}{541}\sqrt{87474}e^{45}$	$(-\frac{40}{541}, \frac{48}{541}, \frac{74}{541}, \frac{151}{541}, -\frac{117}{541}, \frac{273}{541}, -\frac{88}{541}, \frac{34}{541})$ $+ \frac{2}{541}\sqrt{32026}e^4 \otimes e_7 + \frac{3}{541}\sqrt{10994}e^6 \otimes e_8$	{12348, 12456, 13578, 167, 2367, 2578, 3456, 48}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{431}\sqrt{1518}e^{12}, \frac{14}{431}\sqrt{138}e^{13} + \frac{4}{431}\sqrt{345}e^{45}$	$(\frac{14}{431}, -\frac{50}{431}, \frac{102}{431}, -\frac{11}{431}, \frac{127}{431}, -\frac{124}{431}, -\frac{36}{431}, \frac{116}{431})$ $+ \frac{138}{431}e^5 \otimes e_4 + \frac{18}{431}\sqrt{138}e^1 \otimes e_6 + \frac{18}{431}\sqrt{138}e^3 \otimes e_7$	{1234, 1235, 2467, 2567}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{397}\sqrt{590}e^{12}, \frac{4}{397}\sqrt{1003}e^{13} + \frac{4}{397}\sqrt{649}e^{45}$	$(\frac{20}{397}, \frac{110}{397}, -\frac{28}{397}, -\frac{63}{397}, \frac{55}{397}, -\frac{98}{397}, \frac{130}{397}, -\frac{8}{397})$ $+ \frac{118}{397}e^5 \otimes e_4 + \frac{2}{397}\sqrt{8142}e^1 \otimes e_6 + \frac{8}{397}\sqrt{590}e^2 \otimes e_8$	{1478, 1578, 3468, 3568}
82:5	$0, 0, 0, 0, 0, 0, \frac{10}{313}\sqrt{222}e^{12}, \frac{4}{313}\sqrt{1443}e^{13} + \frac{4}{313}\sqrt{111}e^{45}$	$(\frac{100}{313}, -\frac{10}{313}, -\frac{12}{313}, \frac{155}{313}, -\frac{67}{313}, -\frac{122}{313}, \frac{90}{313}, \frac{88}{313})$ $+ \frac{18}{313}\sqrt{222}e^1 \otimes e_6 + \frac{222}{313}e^4 \otimes e_5$	{1234, 1235, 1347, 1357, 2467, 2567, 46, 56}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{15}e^{13} + \frac{1}{13}\sqrt{10}e^{45}$	$(-\frac{1}{13}, \frac{2}{13}, \frac{5}{13}, \frac{7}{13}, -\frac{3}{13}, -\frac{5}{13}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{10}{13}e^4 \otimes e_5 + \frac{1}{13}\sqrt{130}e^3 \otimes e_6$	{12347, 12357, 134, 135, 246, 256, 467, 567}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{655}\sqrt{123802}e^{12}, \frac{2}{655}\sqrt{14579}e^{13} + \frac{4}{655}\sqrt{5258}e^{45}$	$(-\frac{68}{655}, \frac{59}{655}, \frac{191}{655}, \frac{46}{131}, -\frac{107}{655}, -\frac{36}{131}, -\frac{9}{655}, \frac{123}{655})$ $+ \frac{1}{655}\sqrt{119022}e^2 \otimes e_6 + \frac{1}{655}\sqrt{161086}e^4 \otimes e_7$	{12348, 1245, 135678, 167, 237, 2578, 3456, 468}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{1518}e^{12}, \frac{7}{181}\sqrt{138}e^{13} + \frac{2}{181}\sqrt{345}e^{45}$	$(\frac{7}{181}, -\frac{25}{181}, \frac{51}{181}, \frac{29}{181}, \frac{29}{181}, -\frac{62}{181}, -\frac{18}{181}, \frac{58}{181})$ $+ \frac{9}{181}\sqrt{138}e^1 \otimes e_6 + \frac{9}{181}\sqrt{138}e^3 \otimes e_7$	{1234, 14578, 178, 2467, 34568, 368}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{5}e^{13} + \frac{1}{5}\sqrt{2}e^{45}$	$(-\frac{1}{5}, \frac{2}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{5}\sqrt{6}e^3 \otimes e_6 + \frac{2}{5}\sqrt{2}e^2 \otimes e_8 + \frac{2}{5}e^5 \otimes e_4$	{14678, 15678, 348, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{10}e^{12}, \frac{3}{161}\sqrt{510}e^{13} + \frac{6}{161}\sqrt{10}e^{45}$	$(\frac{6}{161}, -\frac{39}{161}, \frac{12}{161}, \frac{9}{161}, \frac{9}{161}, \frac{9}{23}, -\frac{33}{161}, \frac{18}{161})$ $+ \frac{12}{161}\sqrt{30}e^1 \otimes e_2 + \frac{30}{161}\sqrt{5}e^3 \otimes e_7 + \frac{30}{161}\sqrt{5}e^6 \otimes e_8$	{1478, 24567, 267}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:5	$0, 0, 0, 0, 0, \frac{1}{227}\sqrt{6319}e^{12}, \frac{2}{227}\sqrt{710}e^{13} + \frac{1}{454}\sqrt{13490}e^{45}$	$(\frac{119}{908}, -\frac{41}{908}, -\frac{23}{908}, -\frac{31}{227}, \frac{55}{227}, -\frac{183}{908}, \frac{39}{454}, \frac{24}{227})$ $+ \frac{1}{227}\sqrt{6106}e^5 \otimes e_7 + \frac{1}{454}\sqrt{17679}e^1 \otimes e_3 + \frac{1}{454}\sqrt{17679}e^2 \otimes e_6$	{1245, 167, 237, 3456}
82:5	$0, 0, 0, 0, 0, \frac{12}{199}\sqrt{246}e^{12}, \frac{2}{199}\sqrt{2091}e^{13} + \frac{2}{199}\sqrt{2337}e^{45}$	$(\frac{144}{199}, -\frac{32}{199}, -\frac{102}{199}, \frac{21}{199}, \frac{21}{199}, \frac{40}{199}, \frac{112}{199}, \frac{42}{199})$ $+ \frac{6}{199}\sqrt{2173}e^1 \otimes e_3$	{12, 1245, 12456, 126, 14567, 1457, 167, 17, 234567, 23457, 2367, 237, 3, 345, 3456, 36}
82:5	$0, 0, 0, 0, 0, \frac{6}{269}\sqrt{445}e^{12}, \frac{10}{269}\sqrt{89}e^{13} + \frac{4}{269}\sqrt{890}e^{45}$	$(-\frac{34}{269}, -\frac{9}{269}, \frac{135}{269}, \frac{105}{269}, -\frac{4}{269}, -\frac{73}{269}, -\frac{43}{269}, \frac{101}{269})$ $+ \frac{2}{269}\sqrt{9701}e^4 \otimes e_6 + \frac{4}{269}\sqrt{2759}e^3 \otimes e_7$	{12345, 1236, 1478, 15678, 2457, 267, 348, 3568}
82:5	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{4}\sqrt{15}e^{13} + \frac{1}{8}\sqrt{10}e^{45}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{5}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{5}{8}, \frac{1}{8}, \frac{1}{2})$ $+ \frac{1}{8}\sqrt{130}e^3 \otimes e_6$	{12347, 1245678, 12678, 134, 14568, 168, 23458, 238, 246, 34578, 378, 467}
82:5	$0, 0, 0, 0, 0, \frac{10}{313}\sqrt{222}e^{12}, \frac{4}{313}\sqrt{1443}e^{13} + \frac{4}{313}\sqrt{111}e^{45}$	$(-\frac{62}{313}, -\frac{10}{313}, \frac{150}{313}, \frac{155}{313}, -\frac{67}{313}, \frac{40}{313}, -\frac{72}{313}, \frac{88}{313})$ $+ \frac{18}{313}\sqrt{222}e^3 \otimes e_7 + \frac{222}{313}e^4 \otimes e_5$	{1234, 12346, 1235, 12356, 2467, 247, 2567, 257}
82:5	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{890}e^{12}, \frac{5}{179}\sqrt{89}e^{13} + \frac{3}{179}\sqrt{445}e^{45}$	$(\frac{40}{179}, -\frac{2}{179}, -\frac{49}{179}, \frac{40}{179}, -\frac{49}{179}, \frac{80}{179}, \frac{38}{179}, -\frac{9}{179})$ $+ \frac{1}{179}\sqrt{9701}e^1 \otimes e_3 + \frac{2}{179}\sqrt{2759}e^6 \otimes e_8 - \frac{89}{179}e^4 \otimes e_5$	{1248, 1258, 1478, 1578, 23478, 23578, 348, 358}
82:5	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{133}e^{12}, \frac{8}{181}\sqrt{95}e^{13} + \frac{4}{181}\sqrt{57}e^{45}$	$(\frac{21}{181}, -\frac{55}{181}, \frac{42}{181}, \frac{11}{181}, \frac{52}{181}, -\frac{24}{181}, -\frac{34}{181}, \frac{63}{181})$ $+ \frac{2}{181}\sqrt{1558}e^5 \otimes e_6 + \frac{2}{181}\sqrt{2470}e^3 \otimes e_7 + \frac{4}{181}\sqrt{551}e^1 \otimes e_2$	{14678, 1578, 2457, 267}
82:5	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{13}e^{12}, \frac{4}{37}\sqrt{2}e^{13} + \frac{4}{37}\sqrt{13}e^{45}$	$(-\frac{7}{37}, \frac{7}{37}, \frac{6}{37}, \frac{8}{37}, -\frac{9}{37}, \frac{4}{37}, 0, -\frac{1}{37})$ $+ \frac{16}{37}e^2 \otimes e_8 + \frac{4}{37}\sqrt{17}e^4 \otimes e_7$	{1245, 12456, 135678, 13578, 2367, 237, 468, 48}
82:5	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{4}\sqrt{15}e^{13} + \frac{1}{8}\sqrt{10}e^{45}$	$(\frac{11}{16}, -\frac{9}{16}, -\frac{3}{16}, \frac{1}{4}, \frac{1}{4}, \frac{3}{16}, \frac{1}{8}, \frac{1}{2})$ $+ \frac{1}{8}\sqrt{130}e^1 \otimes e_2$	{134, 1346, 14568, 1458, 168, 18, 234568, 23458, 2368, 238, 24, 246}
82:5	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{890}e^{12}, \frac{5}{179}\sqrt{89}e^{13} + \frac{3}{179}\sqrt{445}e^{45}$	$(\frac{40}{179}, -\frac{2}{179}, -\frac{49}{179}, \frac{40}{179}, -\frac{49}{179}, \frac{80}{179}, \frac{38}{179}, -\frac{9}{179})$ $+ \frac{1}{179}\sqrt{9701}e^1 \otimes e_3 + \frac{2}{179}\sqrt{2759}e^6 \otimes e_8 + \frac{89}{179}e^4 \otimes e_5$	{1248, 1258, 1478, 1578, 23478, 23578, 348, 358}
82:5	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{111}e^{12}, \frac{2}{101}\sqrt{1443}e^{13} + \frac{5}{101}\sqrt{222}e^{45}$	$(-\frac{4}{101}, \frac{22}{101}, -\frac{6}{101}, -\frac{5}{101}, -\frac{5}{101}, 1, \frac{18}{101}, -\frac{10}{101})$ $+ \frac{9}{101}\sqrt{222}e^6 \otimes e_8$	{1234567, 12367, 12478, 13456, 136, 148, 2348, 2456, 26, 3478, 4567, 67}
82:5	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{15}e^{13} + \frac{1}{13}\sqrt{10}e^{45}$	$(\frac{11}{26}, -\frac{9}{26}, -\frac{3}{26}, \frac{7}{13}, -\frac{3}{13}, \frac{3}{26}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{10}{13}e^4 \otimes e_5 + \frac{1}{13}\sqrt{130}e^1 \otimes e_2$	{134, 1346, 135, 1356, 24, 246, 25, 256}
82:5	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{155}e^{12}, \frac{2}{101}\sqrt{310}e^{13} + \frac{4}{101}\sqrt{155}e^{45}$	$(-\frac{16}{101}, \frac{50}{101}, \frac{4}{101}, \frac{25}{101}, -\frac{37}{101}, \frac{14}{101}, \frac{34}{101}, -\frac{12}{101})$ $+ \frac{4}{101}\sqrt{434}e^2 \otimes e_8 + \frac{62}{101}e^4 \otimes e_5$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, \frac{6}{397}\sqrt{590}e^{12}, \frac{4}{397}\sqrt{1003}e^{13} + \frac{4}{397}\sqrt{649}e^{45}$	$(-\frac{118}{397}, \frac{110}{397}, \frac{110}{397}, -\frac{63}{397}, \frac{55}{397}, \frac{40}{397}, -\frac{8}{397}, -\frac{8}{397})$ $+ \frac{118}{397}e^5 \otimes e_4 - \frac{2}{397}\sqrt{8142}e^3 \otimes e_7 + \frac{8}{397}\sqrt{590}e^2 \otimes e_8$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, \frac{6}{397}\sqrt{590}e^{12}, \frac{4}{397}\sqrt{1003}e^{13} + \frac{4}{397}\sqrt{649}e^{45}$	$(-\frac{118}{397}, \frac{110}{397}, \frac{110}{397}, -\frac{63}{397}, \frac{55}{397}, \frac{40}{397}, -\frac{8}{397}, -\frac{8}{397})$ $+ \frac{118}{397}e^5 \otimes e_4 + \frac{2}{397}\sqrt{8142}e^3 \otimes e_7 + \frac{8}{397}\sqrt{590}e^2 \otimes e_8$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, \frac{4}{143}\sqrt{87}e^{12}, \frac{2}{143}\sqrt{1334}e^{13} + \frac{4}{143}\sqrt{87}e^{45}$	$(\frac{28}{143}, -\frac{30}{143}, \frac{16}{143}, -\frac{7}{143}, \frac{51}{143}, -\frac{42}{143}, -\frac{2}{143}, \frac{4}{13})$ $+ \frac{4}{143}\sqrt{377}e^1 \otimes e_2 + \frac{4}{143}\sqrt{377}e^3 \otimes e_6 + \frac{58}{143}e^5 \otimes e_4$	{134, 135, 246, 256}
82:5	$0, 0, 0, 0, 0, \frac{45}{251}\sqrt{2}e^{12}, \frac{20}{251}e^{13} + \frac{10}{251}\sqrt{31}e^{45}$	$(-\frac{10}{251}, \frac{29}{251}, \frac{14}{251}, -\frac{40}{251}, \frac{44}{251}, -\frac{35}{251}, \frac{19}{251}, \frac{4}{251})$ $+ \frac{10}{251}\sqrt{42}e^5 \otimes e_7 + \frac{20}{251}\sqrt{11}e^2 \otimes e_8 + \frac{5}{251}\sqrt{114}e^1 \otimes e_6$	{12345, 1478, 267, 3568}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12}, \frac{1}{2}e^{13} + \frac{1}{4}\sqrt{2}e^{45}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, 0, 0, -\frac{1}{4}, \frac{1}{4}, 0)$ $+\frac{1}{2}\sqrt{2}e^2 \otimes e_8 + \frac{1}{4}\sqrt{6}e^3 \otimes e_6$	{123, 12345, 14678, 24567, 267, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{57}\sqrt{87}e^{12}, \frac{1}{57}\sqrt{1334}e^{13} + \frac{2}{57}\sqrt{87}e^{45}$	$(\frac{14}{57}, -\frac{5}{19}, \frac{8}{57}, \frac{11}{57}, \frac{11}{57}, -\frac{7}{19}, -\frac{1}{57}, \frac{22}{57})$ $+\frac{2}{57}\sqrt{377}e^1 \otimes e_2 + \frac{2}{57}\sqrt{377}e^3 \otimes e_6$	{134, 14568, 168, 23458, 238, 246}
82:5	$0, 0, 0, 0, 0, 0, \frac{5}{101}\sqrt{222}e^{12}, \frac{2}{101}\sqrt{1443}e^{13} + \frac{2}{101}\sqrt{111}e^{45}$	$(-\frac{31}{101}, -\frac{5}{101}, \frac{75}{101}, \frac{22}{101}, \frac{22}{101}, \frac{20}{101}, -\frac{36}{101}, \frac{44}{101})$ $+\frac{9}{101}\sqrt{222}e^3 \otimes e_7$	{1234, 12346, 145678, 14578, 1678, 178, 2467, 247, 34568, 3458, 368, 38}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{3354}e^{12}, \frac{1}{157}\sqrt{86}e^{13} + \frac{1}{157}\sqrt{3354}e^{45}$	$(\frac{18}{157}, \frac{36}{157}, -\frac{25}{157}, -\frac{24}{157}, \frac{17}{157}, -\frac{26}{157}, \frac{54}{157}, -\frac{7}{157})$ $+\frac{1}{157}\sqrt{3526}e^1 \otimes e_3 + \frac{1}{157}\sqrt{3526}e^5 \otimes e_6 + \frac{2}{157}\sqrt{1290}e^2 \otimes e_8$	{1245, 126, 23457, 2367}
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{121}\sqrt{474}e^{12}, \frac{1}{121}\sqrt{2054}e^{13} + \frac{3}{121}\sqrt{474}e^{45}$	$(\frac{54}{121}, -\frac{12}{121}, -\frac{25}{121}, \frac{41}{121}, -\frac{12}{121}, -\frac{38}{121}, \frac{42}{121}, \frac{29}{121})$ $+\frac{1}{121}\sqrt{8374}e^1 \otimes e_3 + \frac{1}{121}\sqrt{8374}e^4 \otimes e_6$	{1245, 126, 1457, 167, 23457, 2367, 345, 36}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1846}e^{12}, \frac{2}{323}\sqrt{781}e^{13} + \frac{6}{323}\sqrt{497}e^{45}$	$(-\frac{75}{323}, \frac{96}{323}, \frac{29}{323}, -\frac{23}{323}, -\frac{23}{323}, \frac{163}{323}, \frac{21}{323}, -\frac{46}{323})$ $+\frac{2}{323}\sqrt{8733}e^6 \otimes e_7 + \frac{8}{323}\sqrt{710}e^2 \otimes e_8$	{123456, 1236, 1478, 2457, 27, 3468}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{269}\sqrt{890}e^{12}, \frac{10}{269}\sqrt{89}e^{13} + \frac{6}{269}\sqrt{445}e^{45}$	$(\frac{80}{269}, -\frac{4}{269}, -\frac{98}{269}, -\frac{9}{269}, -\frac{9}{269}, \frac{160}{269}, \frac{76}{269}, -\frac{18}{269})$ $+\frac{2}{269}\sqrt{9701}e^1 \otimes e_3 + \frac{4}{269}\sqrt{2759}e^6 \otimes e_8$	{1248, 1478, 23478, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{246}e^{12}, \frac{1}{161}\sqrt{2091}e^{13} + \frac{1}{161}\sqrt{2337}e^{45}$	$(-\frac{15}{322}, -\frac{16}{161}, \frac{57}{322}, \frac{72}{161}, -\frac{51}{161}, \frac{199}{322}, -\frac{47}{322}, \frac{3}{23})$ $+\frac{123}{161}e^4 \otimes e_5 + \frac{3}{161}\sqrt{2173}e^6 \otimes e_7$	{123468, 123568, 13478, 13578, 2478, 2578, 468, 568}
82:5	$0, 0, 0, 0, 0, 0, \frac{5}{281}\sqrt{202}e^{12}, \frac{10}{281}\sqrt{11}e^{13} + \frac{20}{281}\sqrt{10}e^{45}$	$(\frac{7}{281}, \frac{14}{281}, -\frac{18}{281}, -\frac{57}{281}, \frac{46}{281}, \frac{23}{281}, \frac{21}{281}, -\frac{11}{281})$ $+\frac{10}{281}\sqrt{46}e^2 \otimes e_8 + \frac{15}{281}\sqrt{14}e^1 \otimes e_3 + \frac{5}{281}\sqrt{206}e^5 \otimes e_7$	{1245, 12456, 2367, 237}
82:5	$0, 0, 0, 0, 0, 0, \frac{12}{67}\sqrt{21}e^{12}, \frac{28}{67}\sqrt{2}e^{13} + \frac{12}{67}\sqrt{21}e^{45}$	$(-\frac{1}{67}, -\frac{15}{67}, \frac{26}{67}, \frac{40}{67}, -\frac{15}{67}, \frac{12}{67}, -\frac{16}{67}, \frac{25}{67})$ $+\frac{4}{67}\sqrt{385}e^4 \otimes e_7$	{123468, 12348, 1245, 12456, 135678, 13578, 167, 17, 2367, 237, 25678, 2578, 345, 3456, 468, 48}
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{169}\sqrt{590}e^{12}, \frac{2}{169}\sqrt{1003}e^{13} + \frac{2}{169}\sqrt{649}e^{45}$	$(\frac{10}{169}, \frac{55}{169}, -\frac{14}{169}, -\frac{2}{169}, -\frac{2}{169}, -\frac{49}{169}, \frac{5}{13}, -\frac{4}{169})$ $+\frac{1}{169}\sqrt{8142}e^1 \otimes e_6 + \frac{4}{169}\sqrt{590}e^2 \otimes e_8$	{123, 12345, 1478, 24567, 267, 3468}
82:5	$0, 0, 0, 0, 0, 0, \frac{20}{281}\sqrt{10}e^{12}, \frac{10}{281}\sqrt{11}e^{13} + \frac{5}{281}\sqrt{202}e^{45}$	$(-\frac{35}{281}, \frac{35}{281}, \frac{45}{281}, -\frac{15}{281}, \frac{25}{281}, -\frac{40}{281}, 0, \frac{10}{281})$ $+\frac{10}{281}\sqrt{46}e^2 \otimes e_8 + \frac{15}{281}\sqrt{14}e^4 \otimes e_6 + \frac{5}{281}\sqrt{206}e^5 \otimes e_7$	{1245, 13478, 2367, 568}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{12}, \frac{10}{41}e^{13} + \frac{4}{41}\sqrt{10}e^{45}$	$(-\frac{10}{41}, \frac{11}{41}, \frac{11}{41}, -\frac{4}{41}, \frac{5}{41}, -\frac{5}{41}, \frac{1}{41}, \frac{1}{41})$ $-\frac{4}{41}\sqrt{15}e^3 \otimes e_7 + \frac{6}{41}\sqrt{5}e^5 \otimes e_6 + \frac{8}{41}\sqrt{5}e^2 \otimes e_8$	{12345, 1236, 14678, 1578, 2457, 267, 3468, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{12}, \frac{10}{41}e^{13} + \frac{4}{41}\sqrt{10}e^{45}$	$(-\frac{10}{41}, \frac{11}{41}, \frac{11}{41}, -\frac{4}{41}, \frac{5}{41}, -\frac{5}{41}, \frac{1}{41}, \frac{1}{41})$ $+\frac{4}{41}\sqrt{15}e^3 \otimes e_7 + \frac{6}{41}\sqrt{5}e^5 \otimes e_6 + \frac{8}{41}\sqrt{5}e^2 \otimes e_8$	{12345, 1236, 14678, 1578, 2457, 267, 3468, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{1645}\sqrt{136718}e^{12}, \frac{4}{1645}\sqrt{10063}e^{13} + \frac{4}{1645}\sqrt{1041}e^{45}$	$(-\frac{358}{1645}, \frac{302}{1645}, \frac{638}{1645}, -\frac{207}{1645}, \frac{487}{1645}, -\frac{56}{235}, -\frac{8}{235}, \frac{8}{47})$ $+\frac{2}{1645}\sqrt{208894}e^3 \otimes e_7 + \frac{694}{1645}e^5 \otimes e_4 + \frac{8}{1645}\sqrt{11798}e^2 \otimes e_6$	{14678, 15678, 3468, 3568}
82:5	$0, 0, 0, 0, 0, 0, \frac{3}{89}\sqrt{341}e^{12}, \frac{1}{89}\sqrt{930}e^{13} + \frac{1}{178}\sqrt{2418}e^{45}$	$(\frac{105}{356}, \frac{65}{356}, -\frac{81}{356}, \frac{3}{89}, \frac{3}{89}, -\frac{121}{356}, \frac{85}{178}, \frac{6}{89})$ $+\frac{3}{178}\sqrt{1643}e^1 \otimes e_3 + \frac{3}{178}\sqrt{1643}e^2 \otimes e_6$	{12, 1245, 14567, 167, 23457, 237, 3456, 36}
82:5	$0, 0, 0, 0, 0, 0, \frac{12}{199}\sqrt{246}e^{12}, \frac{2}{199}\sqrt{2091}e^{13} + \frac{2}{199}\sqrt{2337}e^{45}$	$(-\frac{15}{199}, -\frac{32}{199}, \frac{57}{199}, \frac{21}{199}, \frac{21}{199}, 1, -\frac{47}{199}, \frac{42}{199})$ $+\frac{6}{199}\sqrt{2173}e^6 \otimes e_7$	{123468, 12456, 126, 13478, 1457, 17, 23457, 237, 2478, 3456, 36, 468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{655}\sqrt{123802}e^{12}, \frac{2}{655}\sqrt{14579}e^{13} + \frac{4}{655}\sqrt{5258}e^{45}$	$(\frac{181}{655}, -\frac{38}{131}, -\frac{58}{655}, \frac{46}{131}, -\frac{107}{655}, \frac{69}{655}, -\frac{9}{655}, \frac{123}{655})$ $+ \frac{1}{655}\sqrt{119022}e^1 \otimes e_3 + \frac{1}{655}\sqrt{161086}e^4 \otimes e_7$	{1245, 12456, 167, 17, 2367, 237, 345, 3456}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{155}e^{12}, \frac{1}{35}\sqrt{310}e^{13} + \frac{2}{35}\sqrt{155}e^{45}$	$(-\frac{8}{35}, \frac{5}{7}, \frac{2}{35}, -\frac{3}{35}, -\frac{3}{35}, \frac{1}{5}, \frac{17}{35}, -\frac{6}{35})$ $+ \frac{2}{35}\sqrt{434}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 14678, 1478, 24567, 2457, 267, 27, 3468, 348}
82:5	$0, 0, 0, 0, 0, 0, \frac{12}{199}\sqrt{246}e^{12}, \frac{2}{199}\sqrt{2091}e^{13} + \frac{2}{199}\sqrt{2337}e^{45}$	$(-\frac{15}{199}, \frac{127}{199}, \frac{57}{199}, \frac{21}{199}, \frac{21}{199}, -\frac{119}{199}, \frac{112}{199}, \frac{42}{199})$ $+ \frac{6}{199}\sqrt{2173}e^2 \otimes e_6$	{12, 12348, 1245, 134678, 14567, 167, 23457, 237, 2478, 3456, 36, 468}
82:5	$0, 0, 0, 0, 0, 0, \frac{12}{337}\sqrt{58}e^{12}, \frac{4}{337}\sqrt{551}e^{13} + \frac{4}{337}\sqrt{1073}e^{45}$	$(\frac{36}{337}, -\frac{80}{337}, -\frac{5}{337}, \frac{72}{337}, -\frac{41}{337}, \frac{147}{337}, -\frac{44}{337}, \frac{31}{337})$ $+ \frac{2}{337}\sqrt{4466}e^1 \otimes e_2 + \frac{2}{337}\sqrt{6554}e^4 \otimes e_7 + \frac{4}{337}\sqrt{1653}e^6 \otimes e_8$	{1367, 1578, 23578, 267}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{1846}e^{12}, \frac{1}{197}\sqrt{781}e^{13} + \frac{3}{197}\sqrt{497}e^{45}$	$(\frac{24}{197}, \frac{48}{197}, -\frac{47}{197}, -\frac{47}{197}, \frac{24}{197}, \frac{20}{197}, \frac{72}{197}, -\frac{23}{197})$ $+ \frac{1}{197}\sqrt{8733}e^1 \otimes e_3 + \frac{4}{197}\sqrt{710}e^2 \otimes e_8 - \frac{71}{197}e^5 \otimes e_4$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{1846}e^{12}, \frac{1}{197}\sqrt{781}e^{13} + \frac{3}{197}\sqrt{497}e^{45}$	$(\frac{24}{197}, \frac{48}{197}, -\frac{47}{197}, -\frac{47}{197}, \frac{24}{197}, \frac{20}{197}, \frac{72}{197}, -\frac{23}{197})$ $+ \frac{1}{197}\sqrt{8733}e^1 \otimes e_3 + \frac{4}{197}\sqrt{710}e^2 \otimes e_8 + \frac{71}{197}e^5 \otimes e_4$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{523}\sqrt{55918}e^{12}, \frac{5}{523}\sqrt{2298}e^{13} + \frac{1}{523}\sqrt{2298}e^{45}$	$(\frac{147}{523}, -\frac{236}{523}, -\frac{9}{523}, \frac{69}{523}, \frac{69}{523}, \frac{294}{523}, -\frac{89}{523}, \frac{138}{523})$ $+ \frac{1}{523}\sqrt{175414}e^1 \otimes e_2 + \frac{2}{523}\sqrt{43662}e^6 \otimes e_7$	{1347, 14578, 178, 234578, 2378, 247}
82:5	$0, 0, 0, 0, 0, 0, \frac{4}{65}\sqrt{51}e^{12}, \frac{2}{65}\sqrt{102}e^{13} + \frac{4}{65}\sqrt{51}e^{45}$	$(\frac{8}{65}, \frac{2}{13}, \frac{12}{65}, \frac{61}{65}, -\frac{41}{65}, \frac{14}{65}, \frac{18}{65}, \frac{4}{13})$ $+ \frac{102}{65}e^4 \otimes e_5$	{12468, 1248, 12568, 1258, 14678, 1478, 15678, 1578, 234678, 23478, 235678, 23578, 3468, 348, 3568, 358}
82:5	$0, 0, 0, 0, 0, 0, \frac{1}{523}\sqrt{2298}e^{12}, \frac{5}{523}\sqrt{2298}e^{13} + \frac{1}{523}\sqrt{55918}e^{45}$	$(\frac{223}{523}, -\frac{160}{523}, -\frac{9}{523}, \frac{221}{523}, -\frac{7}{523}, -\frac{162}{523}, \frac{63}{523}, \frac{214}{523})$ $+ \frac{1}{523}\sqrt{175414}e^1 \otimes e_2 + \frac{2}{523}\sqrt{43662}e^4 \otimes e_6$	{1345, 136, 148, 1568, 2348, 23568, 245, 26}
82:6	$0, 0, 0, 0, 0, 0, \frac{10}{1177}\sqrt{1343}e^{13} + \frac{10}{1177}\sqrt{255}e^{24},$ $\frac{10}{1177}\sqrt{3026}e^{12} + \frac{20}{1177}\sqrt{799}e^{35}$	$(\frac{45}{1177}, \frac{465}{1177}, \frac{35}{1177}, -\frac{35}{1177}, \frac{475}{1177}, -\frac{375}{1177}, \frac{80}{1177}, \frac{510}{1177})$ $+ \frac{10}{1177}\sqrt{8738}e^2 \otimes e_4 + \frac{10}{1177}\sqrt{8823}e^5 \otimes e_6$	{12357, 134678, 2578, 467}
82:6	$0, 0, 0, 0, 0, 0, \frac{4}{133}\sqrt{282}e^{13} + \frac{2}{133}\sqrt{517}e^{24}, \frac{4}{133}\sqrt{282}e^{12} + \frac{2}{133}\sqrt{517}e^{35}$	$(-\frac{33}{133}, \frac{61}{133}, \frac{61}{133}, -\frac{33}{133}, -\frac{33}{133}, \frac{15}{133}, \frac{4}{19}, \frac{4}{19})$ $+ \frac{2}{133}\sqrt{2773}e^2 \otimes e_4 + \frac{2}{133}\sqrt{2773}e^3 \otimes e_5$	{123, 1236, 45, 456}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{145}\sqrt{362}e^{13} + \frac{4}{145}\sqrt{181}e^{24}, \frac{1}{145}\sqrt{19910}e^{12} + \frac{4}{145}\sqrt{181}e^{35}$	$(-\frac{24}{145}, \frac{98}{145}, \frac{39}{145}, -\frac{83}{145}, \frac{7}{29}, \frac{27}{145}, \frac{3}{29}, \frac{74}{145})$ $+ \frac{2}{145}\sqrt{10679}e^2 \otimes e_4$	{125, 1256, 1468, 148, 23568, 2358, 34, 346}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{451}\sqrt{13891}e^{13} + \frac{16}{451}\sqrt{479}e^{24},$ $\frac{5}{451}\sqrt{4790}e^{12} + \frac{2}{451}\sqrt{1437}e^{35}$	$(\frac{18}{451}, \frac{18}{41}, \frac{137}{451}, -\frac{43}{451}, \frac{79}{451}, -\frac{281}{451}, \frac{155}{451}, \frac{216}{451})$ $+ \frac{2}{451}\sqrt{87657}e^2 \otimes e_6$	{12357, 124, 134678, 1568, 2348, 2578, 356, 467}
82:6	$0, 0, 0, 0, 0, 0, \frac{5}{451}\sqrt{4790}e^{13} + \frac{16}{451}\sqrt{479}e^{24},$ $\frac{2}{451}\sqrt{13891}e^{12} + \frac{2}{451}\sqrt{1437}e^{35}$	$(\frac{18}{451}, \frac{15}{451}, -\frac{46}{451}, -\frac{43}{451}, \frac{79}{451}, 1, -\frac{28}{451}, \frac{3}{41})$ $+ \frac{2}{451}\sqrt{87657}e^6 \otimes e_7$	{123468, 12578, 1356, 147, 2357, 246, 3478, 568}
82:6	$0, 0, 0, 0, 0, 0, \frac{6}{41}\sqrt{5}e^{13} + \frac{3}{41}\sqrt{30}e^{24}, \frac{1}{41}\sqrt{190}e^{12} + \frac{4}{41}\sqrt{10}e^{35}$	$(\frac{7}{82}, -\frac{5}{82}, \frac{5}{41}, \frac{11}{41}, -\frac{4}{41}, -\frac{25}{82}, \frac{17}{82}, \frac{1}{41})$ $+ \frac{1}{41}\sqrt{330}e^2 \otimes e_6 + \frac{1}{41}\sqrt{410}e^4 \otimes e_8$	{124, 1568, 2578, 467}
82:6	$0, 0, 0, 0, 0, 0, \frac{1}{179}\sqrt{3293}e^{13} + \frac{1}{179}\sqrt{1513}e^{24},$ $\frac{2}{179}\sqrt{2759}e^{12} + \frac{2}{179}\sqrt{890}e^{35}$	$(-\frac{51}{358}, \frac{40}{179}, \frac{33}{358}, -\frac{49}{179}, -\frac{2}{179}, \frac{207}{358}, -\frac{9}{179}, \frac{29}{358})$ $+ \frac{1}{179}\sqrt{13439}e^2 \otimes e_4 + \frac{3}{179}\sqrt{1691}e^6 \otimes e_8$	{126, 1458, 238, 3456}
82:6	$0, 0, 0, 0, 0, 0, \frac{1}{112}\sqrt{2329}e^{13} + \frac{1}{112}\sqrt{11782}e^{24},$ $\frac{1}{112}\sqrt{2329}e^{12} + \frac{1}{112}\sqrt{3562}e^{35}$	$(\frac{39}{112}, -\frac{25}{224}, \frac{5}{32}, \frac{69}{112}, \frac{9}{112}, -\frac{17}{28}, \frac{113}{224}, \frac{53}{224})$ $+ \frac{3}{56}\sqrt{685}e^4 \otimes e_6$	{123678, 12458, 13457, 16, 2345, 267, 368, 4578}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:6	$0, 0, 0, 0, 0, 0, \frac{11}{879}\sqrt{1362}e^{13} + \frac{22}{879}\sqrt{78}e^{24},$ $\frac{11}{879}\sqrt{78}e^{12} + \frac{11}{879}\sqrt{330}e^{35}$	$(-\frac{55}{293}, \frac{66}{293}, \frac{66}{293}, -\frac{55}{293}, -\frac{55}{293}, \frac{132}{293}, \frac{11}{293}, \frac{11}{293})$ $+ \frac{11}{293}\sqrt{214}e^6 \otimes e_7 + \frac{11}{879}\sqrt{1770}e^3 \otimes e_5 + \frac{22}{879}\sqrt{282}e^2 \otimes e_4$	{1257, 347}
82:6	$0, 0, 0, 0, 0, 0, \frac{8}{73}\sqrt{2}e^{13} + \frac{16}{73}\sqrt{6}e^{24}, \frac{8}{73}\sqrt{3}e^{12} + \frac{8}{73}\sqrt{15}e^{35}$	$(\frac{8}{73}, -\frac{18}{73}, -\frac{4}{73}, \frac{22}{73}, -\frac{6}{73}, \frac{36}{73}, \frac{4}{73}, -\frac{10}{73})$ $+ \frac{24}{73}\sqrt{3}e^6 \otimes e_7 + \frac{8}{73}\sqrt{37}e^4 \otimes e_8$	{1246, 1568, 2578, 47}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{467}\sqrt{2573}e^{13} + \frac{8}{467}\sqrt{913}e^{24},$ $\frac{4}{467}\sqrt{1909}e^{12} + \frac{2}{467}\sqrt{9877}e^{35}$	$(\frac{111}{467}, -\frac{34}{467}, -\frac{100}{467}, \frac{45}{467}, \frac{177}{467}, -\frac{121}{467}, \frac{11}{467}, \frac{77}{467})$ $+ \frac{2}{467}\sqrt{20418}e^5 \otimes e_7 + \frac{6}{467}\sqrt{1577}e^4 \otimes e_6$	{1356, 147, 3478, 568}
82:6	$0, 0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{13} + \frac{1}{3}\sqrt{3}e^{24}, \frac{1}{3}\sqrt{6}e^{12} + \frac{1}{3}\sqrt{3}e^{35}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_6$	{123, 12457, 178, 2345678, 268, 456}
82:6	$0, 0, 0, 0, 0, 0, \frac{1}{29}\sqrt{130}e^{13} + \frac{3}{29}\sqrt{13}e^{24}, \frac{1}{29}\sqrt{286}e^{12} + \frac{3}{29}\sqrt{13}e^{35}$	$(\frac{1}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{5}{29}, \frac{7}{29}, -\frac{12}{29}, \frac{3}{29}, \frac{9}{29})$ $+ \frac{1}{29}\sqrt{377}e^1 \otimes e_6 + \frac{2}{29}\sqrt{78}e^2 \otimes e_4$	{123, 13458, 268, 456}
82:6	$0, 0, 0, 0, 0, 0, \frac{165}{497}e^{13} + \frac{22}{497}\sqrt{47}e^{24}, \frac{11}{497}\sqrt{206}e^{12} + \frac{11}{497}\sqrt{319}e^{35}$	$(\frac{11}{142}, \frac{66}{497}, -\frac{55}{994}, -\frac{55}{497}, \frac{132}{497}, \frac{297}{994}, \frac{11}{497}, \frac{209}{994})$ $+ \frac{11}{497}\sqrt{393}e^3 \otimes e_6 + \frac{11}{497}\sqrt{487}e^5 \otimes e_7 + \frac{33}{497}\sqrt{2}e^2 \otimes e_4$	{1467, 3478}
82:6	$0, 0, 0, 0, 0, 0, \frac{4}{281}\sqrt{645}e^{13} + \frac{4}{281}\sqrt{1290}e^{24}, \frac{4}{281}\sqrt{215}e^{12} + \frac{4}{281}\sqrt{1290}e^{35}$	$(\frac{19}{281}, \frac{70}{281}, -\frac{51}{281}, -\frac{102}{281}, \frac{140}{281}, \frac{39}{281}, -\frac{32}{281}, \frac{89}{281})$ $+ \frac{18}{281}\sqrt{86}e^2 \otimes e_4 + \frac{2}{281}\sqrt{13846}e^5 \otimes e_7$	{1467, 147, 34678, 3478}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{61}\sqrt{15}e^{13} + \frac{1}{61}\sqrt{210}e^{24}, \frac{2}{61}\sqrt{10}e^{12} + \frac{4}{61}\sqrt{10}e^{35}$	$(\frac{7}{61}, -\frac{5}{61}, -\frac{5}{61}, \frac{7}{61}, \frac{7}{61}, -\frac{10}{61}, \frac{2}{61}, \frac{61}{61})$ $+ \frac{1}{61}\sqrt{230}e^4 \otimes e_8 + \frac{5}{61}\sqrt{6}e^2 \otimes e_6 + \frac{6}{61}\sqrt{5}e^5 \otimes e_7$	{1568, 467}
82:6	$0, 0, 0, 0, 0, 0, \frac{8}{1063}\sqrt{3427}e^{13} + \frac{16}{1063}\sqrt{230}e^{24},$ $\frac{8}{1063}\sqrt{2438}e^{12} + \frac{8}{1063}\sqrt{2967}e^{35}$	$(-\frac{120}{1063}, \frac{490}{1063}, \frac{364}{1063}, -\frac{246}{1063}, \frac{6}{1063}, -\frac{372}{1063}, \frac{244}{1063}, \frac{370}{1063})$ $+ \frac{104}{1063}\sqrt{69}e^3 \otimes e_6 + \frac{8}{1063}\sqrt{9683}e^2 \otimes e_4$	{1235, 1348, 2568, 46}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{10}e^{13} + \frac{2}{47}\sqrt{85}e^{24}, \frac{2}{47}\sqrt{10}e^{12} + \frac{2}{47}\sqrt{85}e^{35}$	$(\frac{9}{47}, -\frac{10}{47}, -\frac{10}{47}, \frac{9}{47}, \frac{9}{47}, \frac{5}{47}, -\frac{1}{47}, -\frac{1}{47})$ $+ \frac{2}{47}\sqrt{105}e^4 \otimes e_8 + \frac{2}{47}\sqrt{105}e^5 \otimes e_7$	{123678, 12378, 2345, 23456}
82:6	$0, 0, 0, 0, 0, 0, \frac{8}{73}\sqrt{3}e^{13} + \frac{16}{73}\sqrt{6}e^{24}, \frac{8}{73}\sqrt{2}e^{12} + \frac{8}{73}\sqrt{15}e^{35}$	$(\frac{8}{73}, \frac{14}{73}, -\frac{9}{73}, -\frac{15}{73}, \frac{31}{73}, -\frac{18}{73}, -\frac{1}{73}, \frac{22}{73})$ $+ \frac{24}{73}\sqrt{3}e^2 \otimes e_6 + \frac{8}{73}\sqrt{37}e^5 \otimes e_7$	{1356, 1467, 34678, 568}
82:6	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{26}e^{13} + \frac{2}{17}\sqrt{39}e^{24}, \frac{1}{17}\sqrt{78}e^{12} + \frac{2}{17}\sqrt{39}e^{35}$	$(\frac{4}{17}, -\frac{6}{17}, \frac{1}{17}, \frac{11}{17}, -\frac{3}{17}, \frac{3}{17}, \frac{5}{17}, -\frac{2}{17})$ $+ \frac{2}{17}\sqrt{91}e^4 \otimes e_8$	{124, 1246, 1568, 158, 25678, 2578, 467, 47}
82:6	$0, 0, 0, 0, 0, 0, \frac{8}{1063}\sqrt{3427}e^{13} + \frac{8}{1063}\sqrt{2967}e^{24},$ $\frac{8}{1063}\sqrt{2438}e^{12} + \frac{16}{1063}\sqrt{230}e^{35}$	$(-\frac{120}{1063}, \frac{321}{1063}, \frac{26}{1063}, -\frac{415}{1063}, \frac{175}{1063}, \frac{642}{1063}, -\frac{94}{1063}, \frac{201}{1063})$ $+ \frac{104}{1063}\sqrt{69}e^6 \otimes e_7 + \frac{8}{1063}\sqrt{9683}e^2 \otimes e_4$	{1257, 1478, 23578, 347}
82:6	$0, 0, 0, 0, 0, 0, \frac{13}{491}\sqrt{3}e^{13} + \frac{13}{491}\sqrt{105}e^{24}, \frac{52}{491}\sqrt{7}e^{12} + \frac{78}{491}\sqrt{6}e^{35}$	$(-\frac{13}{982}, \frac{52}{491}, -\frac{117}{982}, -\frac{117}{491}, \frac{104}{491}, \frac{429}{982}, -\frac{65}{491}, \frac{91}{982})$ $+ \frac{195}{491}e^2 \otimes e_4 + \frac{26}{491}\sqrt{82}e^5 \otimes e_7 + \frac{39}{491}\sqrt{37}e^6 \otimes e_8$	{13478, 467}
82:7	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{559}e^{12}, \frac{2}{71}\sqrt{39}e^{34} + \frac{13}{71}\sqrt{3}e^{56}$	$(\frac{16}{71}, -\frac{14}{71}, \frac{8}{71}, -\frac{5}{71}, \frac{15}{71}, -\frac{12}{71}, \frac{2}{71}, \frac{3}{71})$ $+ \frac{13}{71}e^3 \otimes e_4 + \frac{2}{71}\sqrt{195}e^1 \otimes e_8 + \frac{3}{71}\sqrt{78}e^5 \otimes e_7$	{23678, 24678, 358, 458}
82:7	$0, 0, 0, 0, 0, 0, \frac{4}{141}\sqrt{43}e^{12}, \frac{2}{141}\sqrt{129}e^{34} + \frac{2}{141}\sqrt{129}e^{56}$	$(\frac{17}{47}, -\frac{35}{141}, \frac{52}{141}, -\frac{34}{141}, \frac{52}{141}, -\frac{34}{141}, \frac{16}{141}, \frac{6}{47})$ $+ \frac{86}{141}e^1 \otimes e_2 + \frac{86}{141}e^3 \otimes e_4 + \frac{86}{141}e^5 \otimes e_6$	{13578, 13678, 14678, 23578, 23678, 24678}
82:7	$0, 0, 0, 0, 0, 0, \frac{4}{141}\sqrt{43}e^{12}, \frac{2}{141}\sqrt{129}e^{34} + \frac{2}{141}\sqrt{129}e^{56}$	$(\frac{17}{47}, -\frac{35}{141}, \frac{52}{141}, -\frac{34}{141}, \frac{52}{141}, -\frac{34}{141}, \frac{16}{141}, \frac{6}{47})$ $+ \frac{86}{141}e^1 \otimes e_2 + \frac{86}{141}e^3 \otimes e_4 - \frac{86}{141}e^5 \otimes e_6$	{13578, 13678, 14678, 23578, 23678, 24678}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:7	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{43}e^{12}, \frac{2}{55}\sqrt{129}e^{34} + \frac{2}{55}\sqrt{129}e^{56}$	$(\frac{51}{55}, -\frac{7}{11}, \frac{9}{55}, \frac{9}{55}, \frac{9}{55}, \frac{9}{55}, \frac{16}{55}, \frac{18}{55})$ $+ \frac{86}{55}e^1 \otimes e_2$	{134567, 1347, 13578, 17, 234567, 2347, 23578, 27}
82:7	$0, 0, 0, 0, 0, 0, \frac{1}{169}\sqrt{8239}e^{12}, \frac{9}{169}\sqrt{107}e^{34} + \frac{2}{169}\sqrt{321}e^{56}$	$(\frac{75}{338}, -\frac{139}{338}, \frac{75}{169}, -\frac{18}{169}, \frac{57}{338}, \frac{57}{338}, -\frac{32}{169}, \frac{57}{169})$ $+ \frac{107}{169}e^1 \otimes e_2 + \frac{1}{169}\sqrt{19902}e^3 \otimes e_7$	{145678, 1478, 157, 245678, 2478, 257}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{231}\sqrt{8239}e^{12}, \frac{6}{77}\sqrt{107}e^{34} + \frac{4}{231}\sqrt{321}e^{56}$	$(-\frac{32}{231}, -\frac{32}{231}, \frac{50}{77}, -\frac{12}{77}, \frac{19}{77}, \frac{19}{77}, -\frac{64}{231}, \frac{38}{77})$ $+ \frac{2}{231}\sqrt{19902}e^3 \otimes e_7$	{12345, 123568, 1238, 145678, 1478, 157, 345, 3568, 38}
82:7	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{43}e^{12}, \frac{2}{55}\sqrt{129}e^{34} + \frac{2}{55}\sqrt{129}e^{56}$	$(\frac{8}{55}, \frac{8}{55}, \frac{52}{55}, -\frac{34}{55}, \frac{9}{55}, \frac{9}{55}, \frac{16}{55}, \frac{18}{55})$ $+ \frac{86}{55}e^3 \otimes e_4$	{12358, 12458, 13578, 14578, 358, 458}
82:7	$0, 0, 0, 0, 0, 0, \frac{4}{83}\sqrt{115}e^{12}, \frac{2}{83}\sqrt{345}e^{34} + \frac{2}{83}\sqrt{345}e^{56}$	$(\frac{40}{83}, -\frac{8}{83}, \frac{20}{83}, -\frac{26}{83}, -\frac{3}{83}, -\frac{3}{83}, \frac{32}{83}, -\frac{6}{83})$ $+ \frac{46}{83}e^3 \otimes e_4 + \frac{8}{83}\sqrt{69}e^1 \otimes e_8$	{23578, 24578, 358, 458}
82:7	$0, 0, 0, 0, 0, 0, \frac{1}{169}\sqrt{8239}e^{12}, \frac{2}{169}\sqrt{321}e^{34} + \frac{9}{169}\sqrt{107}e^{56}$	$(-\frac{16}{169}, -\frac{16}{169}, \frac{82}{169}, -\frac{25}{169}, \frac{75}{169}, -\frac{18}{169}, -\frac{32}{169}, \frac{57}{169})$ $+ \frac{107}{169}e^3 \otimes e_4 + \frac{1}{169}\sqrt{19902}e^5 \otimes e_7$	{12356, 12456, 137, 147, 356, 456}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{43}e^{12}, \frac{1}{49}\sqrt{129}e^{34} + \frac{1}{49}\sqrt{129}e^{56}$	$(\frac{4}{49}, \frac{4}{49}, \frac{26}{49}, -\frac{17}{49}, \frac{26}{49}, -\frac{17}{49}, \frac{8}{49}, \frac{9}{49})$ $+ \frac{43}{49}e^3 \otimes e_4 - \frac{43}{49}e^5 \otimes e_6$	{12358, 12368, 12468, 13578, 13678, 14678, 358, 368, 468}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{43}e^{12}, \frac{1}{49}\sqrt{129}e^{34} + \frac{1}{49}\sqrt{129}e^{56}$	$(\frac{4}{49}, \frac{4}{49}, \frac{26}{49}, -\frac{17}{49}, \frac{26}{49}, -\frac{17}{49}, \frac{8}{49}, \frac{9}{49})$ $+ \frac{43}{49}e^3 \otimes e_4 + \frac{43}{49}e^5 \otimes e_6$	{12358, 12368, 12468, 13578, 13678, 14678, 358, 368, 468}
82:7	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{115}e^{12}, \frac{1}{30}\sqrt{345}e^{34} + \frac{1}{30}\sqrt{345}e^{56}$	$(\frac{2}{3}, -\frac{2}{15}, -\frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, \frac{8}{15}, -\frac{1}{10})$ $+ \frac{2}{15}\sqrt{69}e^1 \otimes e_8$	{12, 1234, 123456, 134567, 1347, 17, 23578, 358}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{43}e^{12}, \frac{1}{49}\sqrt{129}e^{34} + \frac{1}{49}\sqrt{129}e^{56}$	$(\frac{51}{98}, -\frac{5}{14}, \frac{26}{49}, -\frac{17}{49}, \frac{9}{98}, \frac{9}{98}, \frac{8}{49}, \frac{9}{49})$ $+ \frac{43}{49}e^1 \otimes e_2 + \frac{43}{49}e^3 \otimes e_4$	{13578, 14578, 23578, 24578}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{129}\sqrt{559}e^{12}, \frac{26}{129}\sqrt{3}e^{34} + \frac{4}{129}\sqrt{39}e^{56}$	$(\frac{32}{129}, -\frac{28}{129}, \frac{10}{43}, -\frac{8}{43}, \frac{1}{43}, \frac{1}{43}, \frac{4}{129}, \frac{2}{43})$ $+ \frac{2}{43}\sqrt{78}e^3 \otimes e_7 + \frac{4}{129}\sqrt{195}e^1 \otimes e_8$	{1234, 123456, 1567, 17, 24578, 358}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{115}e^{12}, \frac{1}{53}\sqrt{345}e^{34} + \frac{1}{53}\sqrt{345}e^{56}$	$(\frac{20}{53}, -\frac{4}{53}, \frac{10}{53}, -\frac{13}{53}, \frac{10}{53}, -\frac{13}{53}, \frac{16}{53}, -\frac{3}{53})$ $+ \frac{23}{53}e^3 \otimes e_4 + \frac{23}{53}e^5 \otimes e_6 + \frac{4}{53}\sqrt{69}e^1 \otimes e_8$	{23578, 23678, 24678, 358, 368, 468}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{115}e^{12}, \frac{1}{53}\sqrt{345}e^{34} + \frac{1}{53}\sqrt{345}e^{56}$	$(\frac{20}{53}, -\frac{4}{53}, \frac{10}{53}, -\frac{13}{53}, \frac{10}{53}, -\frac{13}{53}, \frac{16}{53}, -\frac{3}{53})$ $+ \frac{23}{53}e^3 \otimes e_4 - \frac{23}{53}e^5 \otimes e_6 + \frac{4}{53}\sqrt{69}e^1 \otimes e_8$	{23578, 23678, 24678, 358, 368, 468}
82:7	$0, 0, 0, 0, 0, 0, \frac{2}{445}\sqrt{8239}e^{12}, \frac{4}{445}\sqrt{321}e^{34} + \frac{18}{445}\sqrt{107}e^{56}$	$(\frac{15}{89}, -\frac{139}{445}, \frac{164}{445}, -\frac{10}{89}, \frac{30}{89}, -\frac{36}{445}, -\frac{64}{445}, \frac{114}{445})$ $+ \frac{214}{445}e^1 \otimes e_2 + \frac{214}{445}e^3 \otimes e_4 + \frac{2}{445}\sqrt{19902}e^5 \otimes e_7$	{137, 147, 237, 247}
82:8	$0, 0, 0, 0, 0, 0, \frac{2}{37}\sqrt{58}e^{12}, \frac{2}{37}\sqrt{29}e^{13} + \frac{2}{37}\sqrt{29}e^{24} + \frac{2}{37}\sqrt{58}e^{56}$	$(\frac{5}{37}, \frac{5}{37}, \frac{7}{37}, \frac{7}{37}, \frac{35}{37}, -\frac{23}{37}, \frac{10}{37}, \frac{12}{37})$ $+ \frac{58}{37}e^5 \otimes e_6$	{1258, 1268, 14578, 14678, 3458, 3468}
82:8	$0, 0, 0, 0, 0, 0, \frac{32}{1381}\sqrt{479}e^{12}, \frac{10}{1381}\sqrt{4790}e^{13} + \frac{4}{1381}\sqrt{13891}e^{24} + \frac{4}{1381}\sqrt{1437}e^{56}$	$(-\frac{336}{1381}, \frac{30}{1381}, \frac{652}{1381}, \frac{286}{1381}, \frac{637}{1381}, -\frac{321}{1381}, -\frac{306}{1381}, \frac{316}{1381})$ $+ \frac{4}{1381}\sqrt{87657}e^3 \otimes e_7 + \frac{958}{1381}e^5 \otimes e_6$	{1578, 1678, 358, 368}
82:8	$0, 0, 0, 0, 0, 0, \frac{16}{451}\sqrt{479}e^{12}, \frac{5}{451}\sqrt{4790}e^{13} + \frac{2}{451}\sqrt{13891}e^{24} + \frac{2}{451}\sqrt{1437}e^{56}$	$(-\frac{168}{451}, \frac{15}{451}, \frac{326}{451}, \frac{13}{451}, \frac{79}{451}, \frac{79}{451}, -\frac{153}{451}, \frac{158}{451})$ $+ \frac{2}{451}\sqrt{87657}e^3 \otimes e_7$	{123, 12356, 1578, 2567, 27, 358}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{361}\sqrt{35098}e^{12},$ $\frac{1}{361}\sqrt{13298}e^{13} + \frac{1}{361}\sqrt{13298}e^{24} + \frac{2}{361}\sqrt{6322}e^{56}$	$(\frac{68}{361}, -\frac{67}{361}, -\frac{41}{361}, \frac{94}{361}, \frac{110}{361}, -\frac{83}{361}, \frac{1}{361}, \frac{27}{361})$ $+ \frac{1}{361}\sqrt{42074}e^5 \otimes e_7 + \frac{3}{361}\sqrt{3270}e^1 \otimes e_3$	{1256, 147, 237, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{76}{1449}\sqrt{123}e^{12},$ $\frac{38}{1449}\sqrt{185}e^{13} + \frac{38}{1449}\sqrt{158}e^{24} + \frac{38}{1449}\sqrt{61}e^{56}$	$(\frac{152}{483}, -\frac{494}{1449}, -\frac{38}{207}, \frac{76}{161}, \frac{95}{1449}, \frac{95}{1449}, -\frac{38}{1449}, \frac{190}{1449})$ $+ \frac{38}{1449}\sqrt{607}e^1 \otimes e_3 + \frac{38}{207}\sqrt{14}e^4 \otimes e_7$	{124, 12456, 1567, 17}
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{10}e^{13} + \frac{1}{10}\sqrt{10}e^{24} + \frac{1}{10}\sqrt{10}e^{56}$	$(\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{2}, 0)$ $+ \frac{3}{10}\sqrt{5}e^1 \otimes e_3 - \frac{3}{10}\sqrt{5}e^2 \otimes e_4$	{12, 1256, 14567, 147, 34, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{10}e^{13} + \frac{1}{10}\sqrt{10}e^{24} + \frac{1}{10}\sqrt{10}e^{56}$	$(\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{2}, 0)$ $+ \frac{3}{10}\sqrt{5}e^1 \otimes e_3 + \frac{3}{10}\sqrt{5}e^2 \otimes e_4$	{12, 1256, 14567, 147, 34, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{112}\sqrt{11782}e^{12},$ $\frac{1}{112}\sqrt{2329}e^{13} + \frac{1}{112}\sqrt{2329}e^{24} + \frac{1}{112}\sqrt{3562}e^{56}$	$(\frac{155}{224}, -\frac{25}{224}, -\frac{17}{32}, \frac{61}{224}, \frac{9}{112}, \frac{9}{112}, \frac{65}{112}, \frac{9}{56})$ $+ \frac{3}{56}\sqrt{685}e^1 \otimes e_3$	{12, 1256, 14567, 147, 23567, 237, 34, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{55}e^{12}, \frac{2}{25}\sqrt{5}e^{13} + \frac{2}{25}\sqrt{5}e^{24} + \frac{1}{50}\sqrt{130}e^{56}$	$(\frac{1}{20}, \frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{10}, 0)$ $+ \frac{1}{5}\sqrt{2}e^5 \otimes e_7 + \frac{3}{50}\sqrt{15}e^1 \otimes e_3 + \frac{3}{50}\sqrt{15}e^2 \otimes e_4$	{1256, 147, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{55}e^{12}, \frac{2}{25}\sqrt{5}e^{13} + \frac{2}{25}\sqrt{5}e^{24} + \frac{1}{50}\sqrt{130}e^{56}$	$(\frac{1}{20}, \frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{10}, 0)$ $+ \frac{1}{5}\sqrt{2}e^5 \otimes e_7 + \frac{3}{50}\sqrt{15}e^1 \otimes e_3 - \frac{3}{50}\sqrt{15}e^2 \otimes e_4$	{1256, 147, 3456}
82:8	$0, 0, 0, 0, 0, 0, \frac{2}{37}\sqrt{238}e^{12}, \frac{14}{37}\sqrt{2}e^{13} + \frac{14}{37}\sqrt{2}e^{24} + \frac{2}{37}\sqrt{238}e^{56}$	$(-\frac{4}{37}, -\frac{4}{37}, \frac{13}{37}, \frac{13}{37}, \frac{20}{37}, -\frac{11}{37}, -\frac{8}{37}, \frac{9}{37})$ $+ \frac{2}{37}\sqrt{434}e^5 \otimes e_7$	{123458, 1256, 13678, 147, 3456, 58}
82:9	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{3}e^{13} + \frac{1}{17}\sqrt{31}e^{24}, \frac{2}{17}\sqrt{2}e^{12} + \frac{1}{17}\sqrt{35}e^{56}$	$(\frac{2}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{3}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{1}{17}, 0)$ $+ \frac{1}{17}\sqrt{38}e^4 \otimes e_8 + \frac{1}{17}\sqrt{5}e^1 \otimes e_3 + \frac{4}{17}\sqrt{3}e^5 \otimes e_7$	{12678, 147}
82:9	$0, 0, 0, 0, 0, 0, \frac{4}{89}\sqrt{58}e^{13} + \frac{8}{89}\sqrt{6}e^{24}, \frac{8}{89}\sqrt{5}e^{12} + \frac{4}{89}\sqrt{66}e^{56}$	$(-\frac{9}{89}, \frac{8}{89}, \frac{15}{89}, -\frac{2}{89}, \frac{22}{89}, -\frac{23}{89}, \frac{6}{89}, -\frac{1}{89})$ $+ \frac{12}{89}\sqrt{10}e^5 \otimes e_7 + \frac{8}{89}\sqrt{17}e^3 \otimes e_8$	{12678, 1356, 237, 58}
82:9	$0, 0, 0, 0, 0, 0, \frac{15}{59}e^{13} + \frac{15}{59}e^{24}, \frac{20}{59}e^{12} + \frac{10}{59}\sqrt{3}e^{56}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{15}{59}, \frac{20}{59}, 0, -\frac{5}{59}, \frac{20}{59})$ $+ \frac{10}{59}\sqrt{10}e^5 \otimes e_7 + \frac{5}{59}\sqrt{33}e^1 \otimes e_3 - \frac{5}{59}\sqrt{33}e^2 \otimes e_4$	{127, 14678, 347}
82:9	$0, 0, 0, 0, 0, 0, \frac{15}{59}e^{13} + \frac{15}{59}e^{24}, \frac{20}{59}e^{12} + \frac{10}{59}\sqrt{3}e^{56}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{15}{59}, \frac{20}{59}, 0, -\frac{5}{59}, \frac{20}{59})$ $+ \frac{10}{59}\sqrt{10}e^5 \otimes e_7 + \frac{5}{59}\sqrt{33}e^1 \otimes e_3 + \frac{5}{59}\sqrt{33}e^2 \otimes e_4$	{127, 14678, 347}
82:9	$0, 0, 0, 0, 0, 0, \frac{9}{124}\sqrt{71}e^{13} + \frac{9}{124}\sqrt{71}e^{24}, \frac{1}{62}\sqrt{1349}e^{12} + \frac{3}{62}\sqrt{213}e^{56}$	$(\frac{37}{248}, \frac{37}{248}, -\frac{39}{248}, -\frac{39}{248}, \frac{35}{62}, -\frac{33}{124}, -\frac{1}{124}, \frac{37}{124})$ $+ \frac{1}{124}\sqrt{14626}e^5 \otimes e_7$	{123458, 12678, 1356, 147, 34678, 58}
82:9	$0, 0, 0, 0, 0, 0, \frac{5}{17}e^{13} + \frac{5}{17}e^{24}, \frac{10}{51}\sqrt{11}e^{12} + \frac{10}{51}\sqrt{3}e^{56}$	$(\frac{10}{51}, \frac{10}{51}, -\frac{5}{17}, -\frac{5}{17}, \frac{10}{51}, \frac{10}{51}, -\frac{5}{51}, \frac{20}{51})$ $+ \frac{5}{51}\sqrt{47}e^1 \otimes e_3 - \frac{5}{51}\sqrt{47}e^2 \otimes e_4$	{125, 14568, 148, 345}
82:9	$0, 0, 0, 0, 0, 0, \frac{5}{17}e^{13} + \frac{5}{17}e^{24}, \frac{10}{51}\sqrt{11}e^{12} + \frac{10}{51}\sqrt{3}e^{56}$	$(\frac{10}{51}, \frac{10}{51}, -\frac{5}{17}, -\frac{5}{17}, \frac{10}{51}, \frac{10}{51}, -\frac{5}{51}, \frac{20}{51})$ $+ \frac{5}{51}\sqrt{47}e^1 \otimes e_3 + \frac{5}{51}\sqrt{47}e^2 \otimes e_4$	{125, 14568, 148, 345}
82:9	$0, 0, 0, 0, 0, 0, \frac{12}{47}e^{13} + \frac{2}{47}\sqrt{51}e^{24}, \frac{8}{47}\sqrt{6}e^{12} + \frac{2}{47}\sqrt{39}e^{56}$	$(\frac{12}{47}, -\frac{12}{47}, -\frac{6}{47}, \frac{18}{47}, \frac{9}{47}, -\frac{9}{47}, \frac{6}{47}, 0)$ $+ \frac{18}{47}e^5 \otimes e_6 + \frac{2}{47}\sqrt{129}e^1 \otimes e_3 + \frac{2}{47}\sqrt{174}e^4 \otimes e_8$	{158, 168}
82:9	$0, 0, 0, 0, 0, 0, \frac{2}{115}\sqrt{429}e^{13} + \frac{2}{115}\sqrt{429}e^{24}, \frac{3}{115}\sqrt{1430}e^{12} + \frac{4}{115}\sqrt{143}e^{56}$	$(\frac{76}{115}, -\frac{18}{115}, -\frac{67}{115}, \frac{27}{115}, \frac{29}{115}, \frac{29}{115}, \frac{9}{115}, \frac{58}{115})$ $+ \frac{2}{115}\sqrt{6721}e^1 \otimes e_3$	{125, 14568, 148, 23568, 238, 345}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:9	$0, 0, 0, 0, 0, 0, \frac{6}{119}\sqrt{62}e^{13} + \frac{6}{119}\sqrt{62}e^{24}, \frac{2}{119}\sqrt{186}e^{12} + \frac{4}{119}\sqrt{186}e^{56}$	$(\frac{18}{119}, \frac{18}{119}, \frac{20}{119}, \frac{20}{119}, \frac{111}{119}, -\frac{75}{119}, \frac{38}{119}, \frac{36}{119})$ $+ \frac{186}{119}e^5 \otimes e_6$	{1358, 1368, 14578, 14678}
82:9	$0, 0, 0, 0, 0, 0, \frac{4}{1429}\sqrt{33187}e^{13} + \frac{8}{1429}\sqrt{2586}e^{24},$ $\frac{2}{1429}\sqrt{73270}e^{12} + \frac{4}{1429}\sqrt{29739}e^{56}$	$(-\frac{288}{1429}, \frac{116}{1429}, \frac{690}{1429}, \frac{286}{1429}, \frac{345}{1429}, -\frac{517}{1429}, \frac{402}{1429}, -\frac{172}{1429})$ $+ \frac{4}{1429}\sqrt{87062}e^3 \otimes e_8 + \frac{862}{1429}e^5 \otimes e_6$	{1578, 1678, 258, 268}
82:9	$0, 0, 0, 0, 0, 0, \frac{6}{19}e^{13} + \frac{1}{19}\sqrt{51}e^{24}, \frac{4}{19}\sqrt{6}e^{12} + \frac{1}{19}\sqrt{39}e^{56}$	$(\frac{6}{19}, -\frac{6}{19}, -\frac{3}{19}, \frac{9}{19}, 0, 0, \frac{3}{19}, 0)$ $+ \frac{1}{19}\sqrt{129}e^1 \otimes e_3 + \frac{1}{19}\sqrt{174}e^4 \otimes e_8$	{124, 12456, 158}
82:9	$0, 0, 0, 0, 0, 0, \frac{4}{373}\sqrt{429}e^{13} + \frac{4}{373}\sqrt{429}e^{24}, \frac{6}{373}\sqrt{1430}e^{12} + \frac{8}{373}\sqrt{143}e^{56}$	$(\frac{152}{373}, -\frac{36}{373}, -\frac{134}{373}, \frac{54}{373}, \frac{201}{373}, -\frac{85}{373}, \frac{18}{373}, \frac{116}{373})$ $+ \frac{286}{373}e^5 \otimes e_6 + \frac{4}{373}\sqrt{6721}e^1 \otimes e_3$	{125, 126, 345, 346}
82:9	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{33187}e^{13} + \frac{4}{499}\sqrt{2586}e^{24},$ $\frac{1}{499}\sqrt{73270}e^{12} + \frac{2}{499}\sqrt{29739}e^{56}$	$(-\frac{144}{499}, \frac{58}{499}, \frac{345}{499}, \frac{143}{499}, -\frac{43}{499}, -\frac{43}{499}, \frac{201}{499}, -\frac{86}{499})$ $+ \frac{2}{499}\sqrt{87062}e^3 \otimes e_8$	{123, 12356, 1578, 258, 3567, 37}
82:9	$0, 0, 0, 0, 0, 0, \frac{8}{61}\sqrt{15}e^{13} + \frac{8}{61}\sqrt{15}e^{24}, \frac{8}{61}\sqrt{10}e^{12} + \frac{16}{61}\sqrt{5}e^{56}$	$(\frac{15}{61}, \frac{4}{61}, \frac{17}{61}, -\frac{6}{61}, \frac{30}{61}, -\frac{11}{61}, -\frac{2}{61}, \frac{19}{61})$ $+ \frac{8}{61}\sqrt{11}e^1 \otimes e_3 + \frac{8}{61}\sqrt{41}e^5 \otimes e_7$	{12678, 147, 237, 34678}
82:9	$0, 0, 0, 0, 0, 0, \frac{30}{127}e^{13} + \frac{30}{127}e^{24}, \frac{20}{127}\sqrt{11}e^{12} + \frac{20}{127}\sqrt{3}e^{56}$	$(\frac{20}{127}, \frac{20}{127}, -\frac{30}{127}, -\frac{30}{127}, \frac{45}{127}, -\frac{5}{127}, -\frac{10}{127}, \frac{40}{127})$ $+ \frac{10}{127}\sqrt{47}e^1 \otimes e_3 - \frac{10}{127}\sqrt{47}e^2 \otimes e_4 + \frac{50}{127}e^5 \otimes e_6$	{125, 126, 345, 346}
82:9	$0, 0, 0, 0, 0, 0, \frac{30}{127}e^{13} + \frac{30}{127}e^{24}, \frac{20}{127}\sqrt{11}e^{12} + \frac{20}{127}\sqrt{3}e^{56}$	$(\frac{20}{127}, \frac{20}{127}, -\frac{30}{127}, -\frac{30}{127}, \frac{45}{127}, -\frac{5}{127}, -\frac{10}{127}, \frac{40}{127})$ $+ \frac{10}{127}\sqrt{47}e^1 \otimes e_3 + \frac{10}{127}\sqrt{47}e^2 \otimes e_4 + \frac{50}{127}e^5 \otimes e_6$	{125, 126, 345, 346}
82:10	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{33}e^{13} + \frac{2}{29}\sqrt{6}e^{24}, \frac{2}{29}\sqrt{6}e^{15} + \frac{2}{29}\sqrt{33}e^{26}$	$(-\frac{6}{29}, -\frac{6}{29}, \frac{5}{29}, \frac{5}{29}, \frac{5}{29}, \frac{5}{29}, -\frac{1}{29}, -\frac{1}{29})$ $+ \frac{2}{29}\sqrt{39}e^3 \otimes e_8 + \frac{2}{29}\sqrt{39}e^6 \otimes e_7$	{1236, 124578, 357}
82:10	$0, 0, 0, 0, 0, 0, \frac{8}{1319}\sqrt{3810}e^{13} + \frac{40}{1319}\sqrt{219}e^{24},$ $\frac{24}{1319}\sqrt{890}e^{15} + \frac{8}{1319}\sqrt{435}e^{26}$	$(\frac{364}{1319}, -\frac{199}{1319}, -\frac{116}{1319}, \frac{447}{1319}, -\frac{397}{1319}, \frac{166}{1319}, \frac{248}{1319}, -\frac{33}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^1 \otimes e_3 + \frac{360}{1319}\sqrt{5}e^4 \otimes e_8$	{1245, 18, 234, 358}
82:10	$0, 0, 0, 0, 0, 0, \frac{24}{1319}\sqrt{890}e^{13} + \frac{8}{1319}\sqrt{3810}e^{24},$ $\frac{8}{1319}\sqrt{435}e^{15} + \frac{40}{1319}\sqrt{219}e^{26}$	$(\frac{139}{1319}, \frac{26}{1319}, \frac{278}{1319}, \frac{391}{1319}, -\frac{341}{1319}, -\frac{228}{1319}, \frac{417}{1319}, -\frac{202}{1319})$ $+ \frac{312}{1319}\sqrt{5}e^1 \otimes e_5 + \frac{360}{1319}\sqrt{5}e^3 \otimes e_8$	{1236, 134, 234567, 357}
82:10	$0, 0, 0, 0, 0, 0, \frac{33}{497}\sqrt{2}e^{13} + \frac{165}{497}e^{24}, \frac{11}{497}\sqrt{206}e^{15} + \frac{11}{497}\sqrt{113}e^{26}$	$(\frac{66}{497}, -\frac{121}{497}, -\frac{55}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{132}{497}, \frac{11}{497}, \frac{11}{497})$ $- \frac{11}{497}\sqrt{281}e^6 \otimes e_7 + \frac{11}{497}\sqrt{393}e^4 \otimes e_8 + \frac{44}{497}\sqrt{14}e^1 \otimes e_3$	{12456, 168, 2346, 3568}
82:10	$0, 0, 0, 0, 0, 0, \frac{33}{497}\sqrt{2}e^{13} + \frac{165}{497}e^{24}, \frac{11}{497}\sqrt{206}e^{15} + \frac{11}{497}\sqrt{113}e^{26}$	$(\frac{66}{497}, -\frac{121}{497}, -\frac{55}{497}, \frac{132}{497}, -\frac{55}{497}, \frac{132}{497}, \frac{11}{497}, \frac{11}{497})$ $+ \frac{11}{497}\sqrt{281}e^6 \otimes e_7 + \frac{11}{497}\sqrt{393}e^4 \otimes e_8 + \frac{44}{497}\sqrt{14}e^1 \otimes e_3$	{12456, 168, 2346, 3568}
82:10	$0, 0, 0, 0, 0, 0, \frac{6}{11}\sqrt{2}e^{13} + \frac{6}{11}e^{24}, \frac{3}{11}\sqrt{2}e^{15} + \frac{6}{11}\sqrt{2}e^{26}$	$(-\frac{3}{11}, 0, \frac{7}{11}, \frac{4}{11}, \frac{1}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{2}{11})$ $+ \frac{9}{11}\sqrt{2}e^3 \otimes e_8$	{12356, 12478, 1345, 1678, 23467, 258, 37, 4568}
82:10	$0, 0, 0, 0, 0, 0, \frac{10}{83}\sqrt{13}e^{13} + \frac{20}{83}\sqrt{6}e^{24}, \frac{20}{83}\sqrt{6}e^{15} + \frac{10}{83}\sqrt{13}e^{26}$	$(\frac{35}{83}, \frac{35}{83}, -\frac{15}{83}, -\frac{15}{83}, -\frac{15}{83}, -\frac{15}{83}, \frac{20}{83}, \frac{20}{83})$ $+ \frac{10}{83}\sqrt{37}e^1 \otimes e_3 + \frac{10}{83}\sqrt{37}e^2 \otimes e_6$	{1245, 156, 36}
82:10	$0, 0, 0, 0, 0, 0, \frac{4}{281}\sqrt{215}e^{13} + \frac{20}{281}\sqrt{43}e^{24}, \frac{20}{281}\sqrt{43}e^{15} + \frac{4}{281}\sqrt{645}e^{26}$	$(\frac{70}{281}, -\frac{41}{281}, \frac{29}{281}, \frac{140}{281}, -\frac{102}{281}, \frac{9}{281}, \frac{99}{281}, -\frac{32}{281})$ $+ \frac{2}{281}\sqrt{12986}e^4 \otimes e_8 + \frac{2}{281}\sqrt{7826}e^1 \otimes e_5$	{1278, 1368, 23578, 568}
82:10	$0, 0, 0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{13} + \frac{3}{133}\sqrt{110}e^{24}, \frac{3}{133}\sqrt{305}e^{15} + \frac{3}{133}\sqrt{110}e^{26}$	$(-\frac{45}{133}, -\frac{6}{133}, \frac{44}{133}, \frac{5}{133}, \frac{44}{133}, \frac{5}{133}, -\frac{1}{133}, -\frac{1}{133})$ $+ \frac{9}{133}\sqrt{65}e^3 \otimes e_8 + \frac{9}{133}\sqrt{65}e^5 \otimes e_7$	{123456, 1278, 135, 14678, 2367, 347}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
82:10	$0, 0, 0, 0, 0, 0, \frac{3}{133}\sqrt{305}e^{13} + \frac{3}{133}\sqrt{110}e^{24}, \frac{3}{133}\sqrt{305}e^{15} + \frac{3}{133}\sqrt{110}e^{26}$	$(-\frac{45}{133}, -\frac{6}{133}, \frac{44}{133}, \frac{5}{133}, \frac{44}{133}, \frac{5}{133}, -\frac{1}{133}, -\frac{1}{133})$ $+\frac{9}{133}\sqrt{65}e^3 \otimes e_8 - \frac{9}{133}\sqrt{65}e^5 \otimes e_7$	{123456, 1278, 135, 14678, 2367, 347}
82:10	$0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{5610}e^{13} + \frac{10}{137}\sqrt{66}e^{24}, \frac{3}{137}\sqrt{2090}e^{15} + \frac{1}{137}\sqrt{5610}e^{26}$	$(\frac{97}{137}, \frac{23}{137}, -\frac{68}{137}, \frac{6}{137}, -\frac{31}{137}, \frac{43}{137}, \frac{29}{137}, \frac{66}{137})$ $+\frac{3}{137}\sqrt{4070}e^1 \otimes e_3$	{1245, 12468, 156, 18, 234, 234568, 358, 36}
82:10	$0, 0, 0, 0, 0, 0, \frac{1}{127}\sqrt{93}e^{13} + \frac{1}{127}\sqrt{93}e^{24}, \frac{6}{127}\sqrt{93}e^{15} + \frac{6}{127}\sqrt{93}e^{26}$	$(\frac{54}{127}, \frac{54}{127}, -\frac{39}{127}, -\frac{39}{127}, -\frac{2}{127}, -\frac{2}{127}, \frac{15}{127}, \frac{52}{127})$ $+\frac{3}{127}\sqrt{1147}e^1 \otimes e_3 + \frac{3}{127}\sqrt{1147}e^2 \otimes e_4$	{1256, 128, 145, 1468, 34, 34568}
82:10	$0, 0, 0, 0, 0, 0, \frac{1}{127}\sqrt{93}e^{13} + \frac{1}{127}\sqrt{93}e^{24}, \frac{6}{127}\sqrt{93}e^{15} + \frac{6}{127}\sqrt{93}e^{26}$	$(\frac{54}{127}, \frac{54}{127}, -\frac{39}{127}, -\frac{39}{127}, -\frac{2}{127}, -\frac{2}{127}, \frac{15}{127}, \frac{52}{127})$ $+\frac{3}{127}\sqrt{1147}e^1 \otimes e_3 - \frac{3}{127}\sqrt{1147}e^2 \otimes e_4$	{1256, 128, 145, 1468, 34, 34568}
82:10	$0, 0, 0, 0, 0, 0, \frac{5}{641}\sqrt{410}e^{13} + \frac{5}{641}\sqrt{2130}e^{24}, \frac{5}{641}\sqrt{2130}e^{15} + \frac{30}{641}\sqrt{35}e^{26}$	$(\frac{45}{641}, \frac{130}{641}, -\frac{80}{641}, -\frac{165}{641}, \frac{90}{641}, \frac{5}{641}, -\frac{35}{641}, \frac{135}{641})$ $+\frac{25}{641}\sqrt{102}e^5 \otimes e_7 + \frac{65}{641}\sqrt{10}e^1 \otimes e_3 + \frac{65}{641}\sqrt{10}e^2 \otimes e_6$	{1245, 156}
82:10	$0, 0, 0, 0, 0, 0, \frac{3}{217}\sqrt{290}e^{13} + \frac{2}{217}\sqrt{165}e^{24}, \frac{2}{217}\sqrt{165}e^{15} + \frac{10}{217}\sqrt{21}e^{26}$	$(\frac{2}{217}, -\frac{32}{217}, \frac{4}{217}, \frac{38}{217}, -\frac{13}{217}, \frac{3}{217}, \frac{6}{217}, -\frac{11}{217})$ $+\frac{15}{217}\sqrt{10}e^3 \otimes e_8 + \frac{15}{217}\sqrt{10}e^6 \otimes e_7 + \frac{3}{217}\sqrt{170}e^1 \otimes e_5$	{1236, 357}
82:11	$0, 0, 0, 0, 0, 0, -\frac{5}{32}\sqrt{6}e^{12} + \frac{5}{32}\sqrt{6}e^{34}, \frac{5}{32}\sqrt{2}e^{13} + \frac{5}{32}\sqrt{2}e^{24} + \frac{5}{16}\sqrt{2}e^{56}$	$(\frac{5}{32}, \frac{5}{32}, \frac{5}{32}, \frac{5}{32}, \frac{15}{16}, -\frac{5}{8}, \frac{5}{16}, \frac{5}{16})$ $+\frac{25}{16}e^5 \otimes e_6$	{1258, 1268, 14578, 14678, 1258, 1268, 14578, 14678}
82:11	$0, 0, 0, 0, 0, 0, \frac{5}{32}\sqrt{6}e^{12} + \frac{5}{32}\sqrt{6}e^{34}, \frac{5}{32}\sqrt{2}e^{13} + \frac{5}{32}\sqrt{2}e^{24} + \frac{5}{16}\sqrt{2}e^{56}$	$(\frac{5}{32}, \frac{5}{32}, \frac{5}{32}, \frac{5}{32}, \frac{15}{16}, -\frac{5}{8}, \frac{5}{16}, \frac{5}{16})$ $+\frac{25}{16}e^5 \otimes e_6$	{1258, 1268, 14578, 14678, 1258, 1268, 14578, 14678}
82:11	$0, 0, 0, 0, 0, 0, -\frac{5}{64}\sqrt{51}e^{12} + \frac{5}{64}\sqrt{51}e^{34}, \frac{5}{64}\sqrt{38}e^{13} + \frac{5}{64}\sqrt{38}e^{24} + \frac{5}{32}\sqrt{17}e^{56}$	$(\frac{5}{128}, \frac{5}{128}, \frac{5}{128}, \frac{5}{128}, \frac{15}{32}, -\frac{25}{64}, \frac{5}{64}, \frac{5}{64})$ $+\frac{5}{64}\sqrt{110}e^5 \otimes e_7$	{123458, 1256, 13678, 147, 58, 123458, 1256, 13678, 147, 58}
82:11	$0, 0, 0, 0, 0, 0, \frac{5}{64}\sqrt{51}e^{12} + \frac{5}{64}\sqrt{51}e^{34}, \frac{5}{64}\sqrt{38}e^{13} + \frac{5}{64}\sqrt{38}e^{24} + \frac{5}{32}\sqrt{17}e^{56}$	$(\frac{5}{128}, \frac{5}{128}, \frac{5}{128}, \frac{5}{128}, \frac{15}{32}, -\frac{25}{64}, \frac{5}{64}, \frac{5}{64})$ $+\frac{5}{64}\sqrt{110}e^5 \otimes e_7$	{123458, 1256, 13678, 147, 58, 123458, 1256, 13678, 147, 58}
82:12	$0, 0, 0, 0, 0, 0, \frac{16}{299}\sqrt{358}e^{12} + \frac{2}{299}\sqrt{6086}e^{34}, \frac{2}{299}\sqrt{3043}e^{13} + \frac{2}{299}\sqrt{6086}e^{25} + \frac{2}{299}\sqrt{8413}e^{46}$	$(-\frac{55}{299}, \frac{205}{299}, \frac{107}{299}, \frac{43}{299}, -\frac{153}{299}, \frac{9}{299}, \frac{150}{299}, \frac{4}{299})$ $+\frac{18}{299}\sqrt{537}e^2 \otimes e_5$	{1246, 157, 23467, 35}
82:12	$0, 0, 0, 0, 0, 0, \frac{20}{277}\sqrt{43}e^{12} + \frac{20}{277}\sqrt{43}e^{34}, \frac{20}{277}\sqrt{19}e^{13} + \frac{10}{277}\sqrt{10}e^{25} + \frac{10}{277}\sqrt{10}e^{46}$	$(\frac{10}{277}, \frac{110}{277}, \frac{10}{277}, \frac{110}{277}, -\frac{90}{277}, -\frac{90}{277}, \frac{120}{277}, \frac{20}{277})$ $+\frac{90}{277}\sqrt{6}e^2 \otimes e_5 + \frac{90}{277}\sqrt{6}e^4 \otimes e_6$	{12348, 135678, 2478, 568}
82:12	$0, 0, 0, 0, 0, 0, \frac{20}{277}\sqrt{43}e^{12} + \frac{20}{277}\sqrt{43}e^{34}, \frac{20}{277}\sqrt{19}e^{13} + \frac{10}{277}\sqrt{10}e^{25} + \frac{10}{277}\sqrt{10}e^{46}$	$(\frac{10}{277}, \frac{110}{277}, \frac{10}{277}, \frac{110}{277}, -\frac{90}{277}, -\frac{90}{277}, \frac{120}{277}, \frac{20}{277})$ $+\frac{90}{277}\sqrt{6}e^2 \otimes e_5 - \frac{90}{277}\sqrt{6}e^4 \otimes e_6$	{12348, 135678, 2478, 568}
82:12	$0, 0, 0, 0, 0, 0, \frac{8}{61}\sqrt{11}e^{12} + \frac{10}{61}\sqrt{22}e^{34}, \frac{2}{61}\sqrt{286}e^{13} + \frac{10}{61}\sqrt{22}e^{25} + \frac{6}{61}\sqrt{22}e^{46}$	$(\frac{15}{61}, -\frac{23}{61}, -\frac{2}{61}, -\frac{6}{61}, \frac{36}{61}, \frac{19}{61}, -\frac{8}{61}, \frac{13}{61})$ $+\frac{2}{61}\sqrt{1122}e^5 \otimes e_7$	{1256, 147, 24678, 58}
82:12	$0, 0, 0, 0, 0, 0, \frac{29}{2789}\sqrt{2458}e^{12} + \frac{116}{2789}\sqrt{5}e^{34}, \frac{29}{2789}\sqrt{958}e^{13} + \frac{87}{2789}\sqrt{102}e^{25} + \frac{58}{2789}\sqrt{442}e^{46}$	$(-\frac{493}{2789}, \frac{522}{2789}, \frac{696}{2789}, -\frac{667}{2789}, -\frac{319}{2789}, \frac{870}{2789}, \frac{29}{2789}, \frac{203}{2789})$ $+\frac{29}{2789}\sqrt{2994}e^6 \otimes e_7 + \frac{87}{2789}\sqrt{230}e^2 \otimes e_5$	{237, 3456}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{190}e^{12}$	$(\frac{15}{68}, -\frac{23}{68}, \frac{25}{68}, -\frac{13}{68}, \frac{15}{34}, \frac{3}{34}, -\frac{2}{17})$ $+\frac{19}{34}e^1 \otimes e_2 + \frac{19}{34}e^3 \otimes e_4 + \frac{1}{17}\sqrt{114}e^5 \otimes e_8$	{13678, 1368, 138, 14678, 1468, 148, 23678, 2368, 238, 24678, 2468, 248}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{190}e^{12}$	$(-\frac{1}{17}, -\frac{1}{17}, \frac{25}{68}, \frac{25}{68}, \frac{15}{34}, -\frac{13}{68}, -\frac{13}{68}, -\frac{2}{17})$ $+\frac{19}{34}e^3 \otimes e_6 + \frac{19}{34}e^4 \otimes e_7 + \frac{1}{17}\sqrt{114}e^5 \otimes e_8$	{12345, 12357, 12567, 1348, 1378, 1678, 345, 357, 567}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{190}e^{12}$	$(\frac{2}{3}, -\frac{2}{15}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{8}{15})$ $+\frac{2}{15}\sqrt{114}e^1 \otimes e_3$	{12, 124, 1245, 12456, 124567, 145678, 14568, 1458, 148, 18, 2345678, 234568, 23458, 2348, 238, 3, 34, 345, 3456, 34567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{89}\sqrt{286}e^{12}$	$(\frac{4}{89}, \frac{4}{89}, -\frac{18}{89}, -\frac{18}{89}, \frac{17}{89}, -\frac{5}{89}, \frac{30}{89}, \frac{8}{89})$ $+\frac{22}{89}e^5 \otimes e_6 + \frac{4}{89}\sqrt{66}e^1 \otimes e_3 + \frac{4}{89}\sqrt{66}e^2 \otimes e_4 + \frac{4}{89}\sqrt{66}e^7 \otimes e_8$	{1257, 1267, 1458, 1468, 3457, 3467}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{190}e^{12}$	$(\frac{5}{17}, -\frac{1}{17}, \frac{25}{68}, -\frac{9}{34}, \frac{25}{68}, -\frac{13}{68}, -\frac{13}{68}, \frac{4}{17})$ $+\frac{19}{34}e^3 \otimes e_6 + \frac{19}{34}e^5 \otimes e_7 + \frac{1}{17}\sqrt{114}e^1 \otimes e_4$	{1235, 1237, 1267, 1358, 1378, 1678, 23458, 23478, 24678, 345, 347, 467}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{26}\sqrt{46}e^{12}$	$(\frac{1}{13}, \frac{1}{13}, \frac{29}{52}, \frac{29}{52}, -\frac{17}{52}, -\frac{17}{52}, \frac{3}{26}, \frac{2}{13})$ $+\frac{23}{26}e^3 \otimes e_5 + \frac{23}{26}e^4 \otimes e_6$	{1234, 12347, 1236, 12367, 1256, 12567, 13478, 1348, 13678, 1368, 15678, 1568, 34, 347, 36, 367, 56, 567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190}e^{12}$	$(\frac{20}{49}, -\frac{4}{49}, \frac{25}{49}, -\frac{18}{49}, -\frac{13}{49}, \frac{6}{49}, \frac{6}{49}, \frac{16}{49})$ $+\frac{38}{49}e^3 \otimes e_5 + \frac{4}{49}\sqrt{114}e^1 \otimes e_4$	{123, 1236, 12367, 125, 1256, 12567, 13678, 1368, 138, 15678, 1568, 158, 234678, 23468, 2348, 245678, 24568, 2458, 34, 346, 3467, 45, 456, 4567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}$	$(\frac{4}{23}, \frac{4}{23}, -\frac{6}{23}, -\frac{6}{23}, \frac{7}{23}, -\frac{3}{23}, \frac{2}{23}, \frac{8}{23})$ $+\frac{10}{23}e^5 \otimes e_6 + \frac{4}{23}\sqrt{10}e^1 \otimes e_3 + \frac{4}{23}\sqrt{10}e^2 \otimes e_4$	{125, 1257, 126, 1267, 14578, 1458, 14678, 1468, 345, 3457, 346, 3467}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{286}e^{12}$	$(\frac{2}{39}, \frac{2}{39}, -\frac{3}{13}, -\frac{3}{13}, \frac{5}{13}, \frac{1}{13}, \frac{1}{13}, \frac{4}{39})$ $+\frac{2}{39}\sqrt{66}e^1 \otimes e_3 + \frac{2}{39}\sqrt{66}e^2 \otimes e_4 + \frac{2}{39}\sqrt{66}e^5 \otimes e_8$	{125, 1256, 12567, 14678, 1468, 148, 345, 3456, 34567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{46}e^{12}$	$(\frac{4}{29}, \frac{4}{29}, 1, -\frac{17}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{8}{29})$ $+\frac{46}{29}e^3 \otimes e_4$	{123, 1235, 12356, 123567, 124, 1245, 12456, 124567, 135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 3, 35, 356, 3567, 4, 45, 456, 4567}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{30}e^{12}$	$(\frac{2}{9}, -\frac{2}{9}, \frac{5}{9}, -\frac{1}{3}, \frac{1}{9}, \frac{1}{9}, 0)$ $+\frac{2}{9}\sqrt{10}e^1 \otimes e_4 + \frac{2}{9}\sqrt{10}e^3 \otimes e_8$	{123, 1235, 12356, 123567, 15678, 1568, 158, 18, 245678, 24568, 2458, 248, 34, 345, 3456, 34567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190}e^{12}$	$(-\frac{4}{49}, -\frac{4}{49}, \frac{25}{49}, \frac{30}{49}, -\frac{13}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{8}{49})$ $+\frac{38}{49}e^3 \otimes e_5 + \frac{4}{49}\sqrt{114}e^4 \otimes e_8$	{1234, 12346, 123467, 1245, 12456, 124567, 13678, 1368, 138, 15678, 1568, 158, 34, 346, 3467, 45, 456, 4567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{46}e^{12}$	$(\frac{27}{29}, -\frac{19}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{6}{29}, \frac{8}{29})$ $+\frac{46}{29}e^1 \otimes e_2$	{1345678, 134568, 13458, 1348, 138, 18, 2345678, 234568, 23458, 2348, 238, 28}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190}e^{12}$	$(\frac{15}{49}, -\frac{23}{49}, \frac{30}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{8}{49})$ $+\frac{38}{49}e^1 \otimes e_2 + \frac{4}{49}\sqrt{114}e^3 \otimes e_8$	{145678, 14568, 1458, 148, 18, 245678, 24568, 2458, 248, 28}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{190}e^{12}$	$(\frac{5}{29}, -\frac{23}{87}, \frac{25}{87}, -\frac{13}{87}, \frac{25}{87}, -\frac{13}{87}, \frac{10}{87}, -\frac{8}{87})$ $+\frac{38}{87}e^1 \otimes e_2 + \frac{38}{87}e^3 \otimes e_4 + \frac{38}{87}e^5 \otimes e_6 + \frac{4}{87}\sqrt{114}e^7 \otimes e_8$	{1358, 1368, 1468, 2358, 2368, 2468}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{26}\sqrt{46}e^{12}$	$(\frac{27}{52}, -\frac{19}{52}, \frac{29}{52}, -\frac{17}{52}, \frac{3}{26}, \frac{3}{26}, \frac{3}{26}, \frac{2}{13})$ $+\frac{23}{26}e^1 \otimes e_2 + \frac{23}{26}e^3 \otimes e_4$	{135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 235678, 23568, 2358, 238, 245678, 24568, 2458, 248}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{75}\sqrt{46}e^{12}$	$(\frac{9}{25}, -\frac{19}{75}, \frac{29}{75}, -\frac{17}{75}, \frac{29}{75}, -\frac{17}{75}, \frac{2}{75}, \frac{8}{75})$ $+\frac{46}{75}e^1 \otimes e_2 + \frac{46}{75}e^3 \otimes e_4 + \frac{46}{75}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14678, 1468, 23578, 2358, 23678, 2368, 24678, 2468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{190}e^{12}$	$(-\frac{2}{15}, -\frac{2}{15}, 1, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{4}{15})$ $+\frac{2}{15}\sqrt{114}e^3 \otimes e_8$	{123, 1234, 12345, 123456, 1234567, 145678, 14568, 1458, 148, 18, 3, 34, 345, 3456, 34567}
81:1	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}$	$(\frac{4}{23}, -\frac{4}{23}, \frac{7}{23}, -\frac{6}{23}, \frac{10}{23}, -\frac{3}{23}, \frac{2}{23}, 0)$ $+\frac{10}{23}e^3 \otimes e_6 + \frac{4}{23}\sqrt{10}e^1 \otimes e_4 + \frac{4}{23}\sqrt{10}e^5 \otimes e_8$	{1235, 12357, 1256, 12567, 1378, 138, 1678, 168, 23478, 2348, 24678, 2468, 345, 3457, 456, 4567}
81:1	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{30}e^{12}$	$(\frac{2}{9}, \frac{2}{9}, -\frac{1}{3}, -\frac{1}{3}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{4}{9})$ $+\frac{2}{9}\sqrt{10}e^1 \otimes e_3 + \frac{2}{9}\sqrt{10}e^2 \otimes e_4$	{12, 125, 1256, 12567, 145678, 14568, 1458, 148, 34, 345, 3456, 34567}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{15}e^{12} + \frac{1}{17}\sqrt{15}e^{34}$	$(\frac{9}{17}, -\frac{6}{17}, \frac{3}{34}, \frac{3}{34}, \frac{19}{34}, -\frac{11}{34}, \frac{2}{17}, \frac{3}{17})$ $+\frac{15}{17}e^1 \otimes e_2 + \frac{15}{17}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 23578, 2358, 23678, 2368}
81:2	$0, 0, 0, 0, 0, 0, \frac{2}{31}\sqrt{55}e^{12} + \frac{2}{31}\sqrt{55}e^{34}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{15}{31}, \frac{20}{31}, -\frac{7}{31}, -\frac{2}{31})$ $+\frac{22}{31}e^5 \otimes e_7 + \frac{8}{31}\sqrt{11}e^6 \otimes e_8$	{123456, 123467, 1256, 1267, 1358, 1378, 56, 67}
81:2	$0, 0, 0, 0, 0, 0, \frac{4}{109}\sqrt{46}e^{12} + \frac{2}{109}\sqrt{598}e^{34}$	$(\frac{25}{109}, -\frac{21}{109}, \frac{20}{109}, -\frac{16}{109}, \frac{50}{109}, -\frac{26}{109}, \frac{10}{109}, \frac{4}{109})$ $+\frac{12}{109}\sqrt{23}e^3 \otimes e_6 + \frac{46}{109}e^1 \otimes e_2 + \frac{4}{109}\sqrt{230}e^5 \otimes e_8$	{1378, 138, 14678, 1468, 2378, 238, 24678, 2468}
81:2	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{55}e^{12} + \frac{2}{53}\sqrt{55}e^{34}$	$(\frac{10}{53}, -\frac{12}{53}, \frac{10}{53}, -\frac{12}{53}, \frac{15}{53}, -\frac{7}{53}, \frac{20}{53}, -\frac{2}{53})$ $+\frac{22}{53}e^1 \otimes e_2 + \frac{22}{53}e^3 \otimes e_4 + \frac{22}{53}e^5 \otimes e_6 + \frac{8}{53}\sqrt{11}e^7 \otimes e_8$	{1358, 1368, 1458, 1468, 2458, 2468}
81:2	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{55}e^{12} + \frac{2}{53}\sqrt{55}e^{34}$	$(\frac{10}{53}, -\frac{12}{53}, \frac{10}{53}, -\frac{12}{53}, \frac{15}{53}, -\frac{7}{53}, \frac{20}{53}, -\frac{2}{53})$ $+\frac{22}{53}e^1 \otimes e_2 - \frac{22}{53}e^3 \otimes e_4 + \frac{22}{53}e^5 \otimes e_6 + \frac{8}{53}\sqrt{11}e^7 \otimes e_8$	{1358, 1368, 1458, 1468, 2458, 2468}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{15}e^{12} + \frac{1}{17}\sqrt{15}e^{34}$	$(\frac{9}{17}, -\frac{6}{17}, \frac{9}{17}, -\frac{6}{17}, \frac{2}{17}, \frac{2}{17}, \frac{2}{17}, \frac{3}{17})$ $+\frac{15}{17}e^1 \otimes e_2 - \frac{15}{17}e^3 \otimes e_4$	{135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 245678, 24568, 2458, 248}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{15}e^{12} + \frac{1}{17}\sqrt{15}e^{34}$	$(\frac{9}{17}, -\frac{6}{17}, \frac{9}{17}, -\frac{6}{17}, \frac{2}{17}, \frac{2}{17}, \frac{2}{17}, \frac{3}{17})$ $+\frac{15}{17}e^1 \otimes e_2 + \frac{15}{17}e^3 \otimes e_4$	{135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 245678, 24568, 2458, 248}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{55}e^{12} + \frac{1}{21}\sqrt{55}e^{34}$	$(\frac{5}{21}, -\frac{2}{7}, \frac{5}{21}, -\frac{2}{7}, \frac{10}{21}, \frac{2}{21}, \frac{2}{21}, -\frac{1}{21})$ $+\frac{11}{21}e^1 \otimes e_2 - \frac{11}{21}e^3 \otimes e_4 + \frac{4}{21}\sqrt{11}e^5 \otimes e_8$	{13678, 1368, 138, 14678, 1468, 148, 24678, 2468, 248}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{55}e^{12} + \frac{1}{21}\sqrt{55}e^{34}$	$(\frac{5}{21}, -\frac{2}{7}, \frac{5}{21}, -\frac{2}{7}, \frac{10}{21}, \frac{2}{21}, \frac{2}{21}, -\frac{1}{21})$ $+\frac{11}{21}e^1 \otimes e_2 + \frac{11}{21}e^3 \otimes e_4 + \frac{4}{21}\sqrt{11}e^5 \otimes e_8$	{13678, 1368, 138, 14678, 1468, 148, 24678, 2468, 248}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{598}e^{12} + \frac{2}{43}\sqrt{46}e^{34}$	$(\frac{10}{43}, -\frac{8}{43}, \frac{1}{43}, \frac{1}{43}, \frac{25}{43}, -\frac{13}{43}, \frac{5}{43}, \frac{2}{43})$ $+\frac{2}{43}\sqrt{230}e^5 \otimes e_8 + \frac{6}{43}\sqrt{23}e^1 \otimes e_6$	{12345, 123457, 125, 1257, 1378, 138, 23678, 2368, 3456, 34567, 56, 567}
81:2	$0, 0, 0, 0, 0, 0, \frac{3}{77}\sqrt{582}e^{12} + \frac{2}{77}\sqrt{194}e^{34}$	$(\frac{50}{77}, -\frac{12}{77}, \frac{19}{77}, \frac{19}{77}, -\frac{47}{77}, \frac{15}{77}, \frac{15}{77}, \frac{38}{77})$ $+\frac{2}{77}\sqrt{3007}e^1 \otimes e_5$	{123, 1236, 12367, 134678, 13468, 1348, 1678, 168, 18, 2345678, 234568, 23458, 25678, 2568, 258, 35, 356, 3567}
81:2	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{15}e^{12} + \frac{2}{49}\sqrt{15}e^{34}$	$(\frac{18}{49}, -\frac{12}{49}, \frac{18}{49}, -\frac{12}{49}, \frac{19}{49}, -\frac{11}{49}, \frac{4}{49}, \frac{6}{49})$ $+\frac{30}{49}e^1 \otimes e_2 + \frac{30}{49}e^3 \otimes e_4 + \frac{30}{49}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14578, 1458, 14678, 1468, 24578, 2458, 24678, 2468}
81:2	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{15}e^{12} + \frac{2}{49}\sqrt{15}e^{34}$	$(\frac{18}{49}, -\frac{12}{49}, \frac{18}{49}, -\frac{12}{49}, \frac{19}{49}, -\frac{11}{49}, \frac{4}{49}, \frac{6}{49})$ $+\frac{30}{49}e^1 \otimes e_2 - \frac{30}{49}e^3 \otimes e_4 + \frac{30}{49}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14578, 1458, 14678, 1468, 24578, 2458, 24678, 2468}
81:2	$0, 0, 0, 0, 0, 0, \frac{1}{87}\sqrt{194}e^{12} + \frac{1}{58}\sqrt{582}e^{34}$	$(\frac{45}{116}, -\frac{59}{348}, \frac{25}{87}, -\frac{2}{29}, \frac{127}{348}, -\frac{47}{174}, -\frac{67}{348}, \frac{19}{87})$ $+\frac{1}{87}\sqrt{3007}e^3 \otimes e_6 + \frac{97}{174}e^1 \otimes e_2 + \frac{1}{174}e^5 \otimes e_7$	{1345, 1347, 156, 167, 2345, 2347, 256, 267}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12} + \frac{2}{19}\sqrt{15}e^{34}$	$(\frac{18}{19}, -\frac{12}{19}, \frac{3}{19}, \frac{3}{19}, \frac{4}{19}, \frac{4}{19}, \frac{4}{19}, \frac{6}{19})$ $+ \frac{30}{19}e^1 \otimes e_2$	{135678, 13568, 1358, 138, 235678, 23568, 2358, 238}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12} + \frac{2}{19}\sqrt{15}e^{34}$	$(\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, 1, -\frac{11}{19}, \frac{4}{19}, \frac{6}{19})$ $+ \frac{30}{19}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 125, 1257, 126, 1267, 13578, 1358, 13678, 1368, 5, 57, 6, 67}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{251}\sqrt{194}e^{12} + \frac{6}{251}\sqrt{582}e^{34}$	$(\frac{135}{251}, -\frac{59}{251}, \frac{100}{251}, -\frac{24}{251}, -\frac{94}{251}, \frac{30}{251}, \frac{30}{251}, \frac{76}{251})$ $+ \frac{194}{251}e^1 \otimes e_2 + \frac{4}{251}\sqrt{3007}e^3 \otimes e_5$	{134, 1346, 13467, 15, 156, 1567, 234, 2346, 23467, 25, 256, 2567}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{11}e^{12} + \frac{4}{11}e^{34}$	$(\frac{2}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{5}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{1}{11})$ $+ \frac{2}{11}\sqrt{6}e^1 \otimes e_6 + \frac{2}{11}\sqrt{6}e^3 \otimes e_7 + \frac{4}{11}\sqrt{2}e^5 \otimes e_8$	{12345, 1257, 138, 1478, 24678, 567}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{65}e^{12} + \frac{4}{71}\sqrt{65}e^{34}$	$(\frac{30}{71}, -\frac{1}{71}, \frac{30}{71}, -\frac{1}{71}, -\frac{22}{71}, -\frac{22}{71}, \frac{9}{71}, \frac{29}{71})$ $+ \frac{2}{71}\sqrt{806}e^1 \otimes e_5 + \frac{2}{71}\sqrt{806}e^3 \otimes e_6$	{1234, 12347, 126, 1267, 1378, 138, 14678, 1468, 245678, 24568, 56, 567}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{5}{69}\sqrt{74}e^{12} + \frac{2}{69}\sqrt{111}e^{34}$	$(\frac{13}{69}, \frac{13}{69}, \frac{13}{69}, \frac{13}{69}, -\frac{8}{23}, -\frac{8}{23}, \frac{7}{69}, \frac{26}{69})$ $+ \frac{1}{69}\sqrt{2294}e^1 \otimes e_5 + \frac{1}{69}\sqrt{2294}e^2 \otimes e_6$	{123, 1237, 134678, 13468, 1678, 168, 356, 3567}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{31}\sqrt{55}e^{12} + \frac{2}{31}\sqrt{55}e^{34}$	$(\frac{10}{31}, -\frac{12}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{20}{31}, \frac{4}{31}, \frac{4}{31}, -\frac{2}{31})$ $+ \frac{22}{31}e^1 \otimes e_2 + \frac{8}{31}\sqrt{11}e^5 \otimes e_8$	{13678, 1368, 138, 23678, 2368, 238}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{6}{251}\sqrt{582}e^{12} + \frac{4}{251}\sqrt{194}e^{34}$	$(\frac{100}{251}, -\frac{24}{251}, \frac{38}{251}, \frac{38}{251}, \frac{127}{251}, -\frac{94}{251}, -\frac{67}{251}, \frac{76}{251})$ $+ \frac{194}{251}e^5 \otimes e_7 + \frac{4}{251}\sqrt{3007}e^1 \otimes e_6$	{1235, 1237, 13458, 13478, 158, 178, 234568, 234678, 2568, 2678, 356, 367}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{55}e^{12} + \frac{1}{21}\sqrt{55}e^{34}$	$(\frac{5}{21}, -\frac{2}{7}, -\frac{1}{42}, -\frac{1}{42}, \frac{5}{14}, \frac{10}{21}, -\frac{1}{6}, -\frac{1}{21})$ $+ \frac{11}{21}e^1 \otimes e_2 + \frac{11}{21}e^5 \otimes e_7 + \frac{4}{21}\sqrt{11}e^6 \otimes e_8$	{1358, 1378, 2358, 2378}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{5}{89}\sqrt{58}e^{12} + \frac{10}{89}e^{34}$	$(\frac{5}{89}, \frac{5}{89}, \frac{5}{89}, \frac{5}{89}, \frac{35}{89}, -\frac{20}{89}, -\frac{20}{89}, \frac{10}{89})$ $+ \frac{10}{89}\sqrt{14}e^5 \otimes e_8 + \frac{15}{89}\sqrt{6}e^1 \otimes e_6 + \frac{15}{89}\sqrt{6}e^2 \otimes e_7$	{12345, 125, 1378, 34567, 567}
81:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{55}e^{12} + \frac{1}{10}\sqrt{55}e^{34}$	$(-\frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, -\frac{1}{20}, 1, \frac{1}{5}, \frac{1}{5}, -\frac{1}{10})$ $+ \frac{2}{5}\sqrt{11}e^5 \otimes e_8$	{12345, 123456, 1234567, 125, 1256, 12567, 13678, 1368, 138, 5, 56, 567}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{10}e^{12} + \frac{2}{15}\sqrt{10}e^{34} + \frac{2}{15}\sqrt{10}e^{56}$	$(\frac{1}{3}, -\frac{1}{3}, 0, 0, 0, 0, \frac{2}{3}, 0)$ $+ \frac{2}{3}e^1 \otimes e_2 + \frac{4}{15}\sqrt{10}e^7 \otimes e_8$	{1358, 2358}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{74}e^{12} + \frac{2}{47}\sqrt{74}e^{34} + \frac{2}{47}\sqrt{74}e^{56}$	$(\frac{45}{47}, -\frac{29}{47}, \frac{8}{47}, \frac{8}{47}, \frac{8}{47}, \frac{8}{47}, \frac{10}{47}, \frac{16}{47})$ $+ \frac{74}{47}e^1 \otimes e_2$	{13578, 1358, 23578, 2358}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{4}{153}\sqrt{59}e^{12} + \frac{2}{153}\sqrt{2006}e^{34} + \frac{4}{153}\sqrt{59}e^{56}$	$(\frac{9}{17}, -\frac{37}{153}, \frac{20}{51}, -\frac{16}{153}, \frac{22}{153}, \frac{22}{153}, -\frac{58}{153}, \frac{44}{153})$ $+ \frac{118}{153}e^1 \otimes e_2 + \frac{4}{153}\sqrt{1121}e^3 \otimes e_7$	{1345, 157, 2345, 257}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{59}e^{12} + \frac{1}{53}\sqrt{59}e^{34} + \frac{1}{106}\sqrt{2006}e^{56}$	$(\frac{81}{212}, -\frac{37}{212}, \frac{81}{212}, -\frac{37}{212}, \frac{15}{53}, -\frac{4}{53}, -\frac{29}{106}, \frac{11}{53})$ $+ \frac{1}{53}\sqrt{1121}e^5 \otimes e_7 + \frac{59}{106}e^1 \otimes e_2 + \frac{59}{106}e^3 \otimes e_4$	{1356, 137, 1456, 147, 2456, 247}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{59}e^{12} + \frac{1}{53}\sqrt{59}e^{34} + \frac{1}{106}\sqrt{2006}e^{56}$	$(\frac{81}{212}, -\frac{37}{212}, \frac{81}{212}, -\frac{37}{212}, \frac{15}{53}, -\frac{4}{53}, -\frac{29}{106}, \frac{11}{53})$ $+ \frac{1}{53}\sqrt{1121}e^5 \otimes e_7 + \frac{59}{106}e^1 \otimes e_2 - \frac{59}{106}e^3 \otimes e_4$	{1356, 137, 1456, 147, 2456, 247}
81:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{74}e^{12} + \frac{2}{121}\sqrt{74}e^{34} + \frac{2}{121}\sqrt{74}e^{56}$	$(\frac{45}{121}, -\frac{29}{121}, \frac{45}{121}, -\frac{29}{121}, \frac{45}{121}, -\frac{29}{121}, \frac{10}{121}, \frac{16}{121})$ $+ \frac{74}{121}e^1 \otimes e_2 + \frac{74}{121}e^3 \otimes e_4 - \frac{74}{121}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14578, 1458, 14678, 1468, 24578, 2458, 24678, 2468}

Table C – Continued to next page

Table C – Continued from previous page

Name Δ	g	D	S
81:3	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{74}e^{12} + \frac{2}{121}\sqrt{74}e^{34} + \frac{2}{121}\sqrt{74}e^{56}$	$(\frac{45}{121}, -\frac{29}{121}, \frac{45}{121}, -\frac{29}{121}, \frac{45}{121}, -\frac{29}{121}, \frac{10}{121}, \frac{16}{121})$ $+ \frac{74}{121}e^1 \otimes e_2 + \frac{74}{121}e^3 \otimes e_4 + \frac{74}{121}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14678, 1468, 24678, 2468}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{2006}e^{12} + \frac{2}{47}\sqrt{59}e^{34} + \frac{2}{47}\sqrt{59}e^{56}$	$(\frac{30}{47}, -\frac{8}{47}, \frac{11}{47}, \frac{11}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{29}{47}, \frac{22}{47})$ $+ \frac{2}{47}\sqrt{1121}e^1 \otimes e_7$	{1235, 134568, 1348, 18, 2345678, 23478, 278, 357}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{42}\sqrt{74}e^{12} + \frac{1}{42}\sqrt{74}e^{34} + \frac{1}{42}\sqrt{74}e^{56}$	$(\frac{15}{28}, -\frac{29}{84}, \frac{15}{28}, -\frac{29}{84}, \frac{2}{21}, \frac{2}{21}, \frac{5}{42}, \frac{4}{21})$ $+ \frac{37}{42}e^1 \otimes e_2 - \frac{37}{42}e^3 \otimes e_4$	{13578, 1358, 14578, 1458, 24578, 2458}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{42}\sqrt{74}e^{12} + \frac{1}{42}\sqrt{74}e^{34} + \frac{1}{42}\sqrt{74}e^{56}$	$(\frac{15}{28}, -\frac{29}{84}, \frac{15}{28}, -\frac{29}{84}, \frac{2}{21}, \frac{2}{21}, \frac{5}{42}, \frac{4}{21})$ $+ \frac{37}{42}e^1 \otimes e_2 + \frac{37}{42}e^3 \otimes e_4$	{13578, 1358, 14578, 1458, 24578, 2458}
81:3	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{10}e^{12} + \frac{2}{25}\sqrt{10}e^{34} + \frac{2}{25}\sqrt{10}e^{56}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, 0)$ $+ \frac{2}{5}e^1 \otimes e_2 + \frac{2}{5}e^3 \otimes e_4 - \frac{2}{5}e^5 \otimes e_6 + \frac{4}{25}\sqrt{10}e^7 \otimes e_8$	{1358, 1368, 1458, 1468, 2458, 2468}
81:3	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{10}e^{12} + \frac{2}{25}\sqrt{10}e^{34} + \frac{2}{25}\sqrt{10}e^{56}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, 0)$ $+ \frac{2}{5}e^1 \otimes e_2 + \frac{2}{5}e^3 \otimes e_4 + \frac{2}{5}e^5 \otimes e_6 + \frac{4}{25}\sqrt{10}e^7 \otimes e_8$	{1358, 1368, 1468, 2468}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12} + \frac{1}{5}\sqrt{10}e^{34} + \frac{1}{5}\sqrt{10}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0)$ $+ \frac{2}{5}\sqrt{10}e^7 \otimes e_8$	{1234567, 12347, 127, 1358, 7}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12} + \frac{1}{10}\sqrt{10}e^{34} + \frac{1}{10}\sqrt{10}e^{56}$	$(\frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{2}, 0)$ $+ \frac{1}{2}e^1 \otimes e_2 + \frac{1}{2}e^3 \otimes e_4 + \frac{1}{5}\sqrt{10}e^7 \otimes e_8$	{1358, 1458, 2458}
81:3	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12} + \frac{1}{10}\sqrt{10}e^{34} + \frac{1}{10}\sqrt{10}e^{56}$	$(\frac{1}{4}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{2}, 0)$ $+ \frac{1}{2}e^1 \otimes e_2 - \frac{1}{2}e^3 \otimes e_4 + \frac{1}{5}\sqrt{10}e^7 \otimes e_8$	{1358, 1458, 2458}
8:1	$0, 0, 0, 0, 0, 0, 0$	$(\frac{5}{9}, \frac{5}{9}, -\frac{1}{3}, -\frac{1}{3}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{8}{9}e^1 \otimes e_3 + \frac{8}{9}e^2 \otimes e_4$	{12, 125, 1256, 12567, 125678, 14, 145, 1456, 14567, 145678, 34, 345, 3456, 34567, 345678}
8:1	$0, 0, 0, 0, 0, 0, 0$	$(\frac{5}{17}, \frac{5}{17}, -\frac{3}{17}, -\frac{3}{17}, \frac{5}{17}, -\frac{3}{17}, \frac{5}{17}, -\frac{3}{17})$ $+ \frac{8}{17}e^1 \otimes e_3 + \frac{8}{17}e^2 \otimes e_4 + \frac{8}{17}e^5 \otimes e_6 + \frac{8}{17}e^7 \otimes e_8$	{1257, 1258, 1268, 1468, 3468}
8:1	$0, 0, 0, 0, 0, 0, 0$	$(1, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{8}{5}e^1 \otimes e_2$	{1, 13, 134, 1345, 13456, 134567, 1345678, 2, 23, 234, 2345, 23456, 234567, 2345678}
8:1	$0, 0, 0, 0, 0, 0, 0$	$(\frac{5}{13}, \frac{5}{13}, -\frac{3}{13}, -\frac{3}{13}, \frac{5}{13}, -\frac{3}{13}, \frac{1}{13}, \frac{1}{13})$ $+ \frac{8}{13}e^1 \otimes e_3 + \frac{8}{13}e^2 \otimes e_4 + \frac{8}{13}e^5 \otimes e_6$	{125, 1257, 12578, 126, 1267, 12678, 146, 1467, 14678, 346, 3467, 34678}

End of Table C

D Dimension 9

Table D: Solutions of (1) obtained with Algorithm 1 with $n = 9$

Name Δ	g	D	S
97654321:1	$0, 0, \frac{259}{3581}\sqrt{62}e^{12}, \frac{37}{3581}\sqrt{606}e^{13}, \frac{74}{3581}\sqrt{290}e^{14}, \frac{74}{3581}\sqrt{565}e^{15},$ $\frac{37}{3581}\sqrt{2694}e^{16}, \frac{37}{3581}\sqrt{2462}e^{17}, \frac{74}{3581}\sqrt{391}e^{18}$	$(\frac{333}{3581}, -\frac{1036}{3581}, -\frac{703}{3581}, -\frac{370}{3581}, -\frac{37}{3581}, \frac{296}{3581}, \frac{629}{3581}, \frac{962}{3581}, \frac{1295}{3581})$ $+ \frac{74}{3581}\sqrt{1534}e^1 \otimes e_2$	{1579, 2456789}
97654321:1	$0, 0, \frac{7}{51}\sqrt{39}e^{12}, \frac{14}{51}e^{13}, \frac{7}{51}\sqrt{17}e^{14}, \frac{14}{51}\sqrt{6}e^{15},$ $\frac{7}{51}\sqrt{17}e^{16}, \frac{14}{51}e^{17}, \frac{7}{51}\sqrt{39}e^{18}$	$(-\frac{7}{51}, \frac{21}{34}, \frac{49}{102}, \frac{35}{102}, \frac{7}{34}, \frac{7}{102}, -\frac{7}{102}, -\frac{7}{34}, -\frac{35}{102})$ $+ \frac{14}{51}\sqrt{22}e^2 \otimes e_9$	{2346, 5789}
9764321:1	$0, 0, \frac{54}{2389}\sqrt{619}e^{12}, \frac{108}{2389}\sqrt{143}e^{13}, \frac{54}{2389}\sqrt{987}e^{23}, \frac{54}{2389}\sqrt{533}e^{14},$ $\frac{54}{2389}\sqrt{251}e^{16}, \frac{54}{2389}\sqrt{274}e^{17}, \frac{54}{2389}\sqrt{1042}e^{18}$	$(-\frac{243}{2389}, \frac{783}{2389}, \frac{540}{2389}, \frac{297}{2389}, \frac{1323}{2389}, \frac{54}{2389}, -\frac{189}{2389}, -\frac{432}{2389}, -\frac{675}{2389})$ $+ \frac{54}{2389}\sqrt{2053}e^2 \otimes e_9$	{1258, 1345679, 236, 4789}
9764321:1	$0, 0, \frac{54}{2389}\sqrt{619}e^{12}, \frac{108}{2389}\sqrt{143}e^{13}, \frac{54}{2389}\sqrt{987}e^{23}, \frac{54}{2389}\sqrt{533}e^{14},$ $\frac{54}{2389}\sqrt{251}e^{16}, \frac{54}{2389}\sqrt{274}e^{17}, \frac{54}{2389}\sqrt{1042}e^{18}$	$(-\frac{243}{2389}, \frac{783}{2389}, \frac{540}{2389}, \frac{297}{2389}, \frac{1323}{2389}, \frac{54}{2389}, -\frac{189}{2389}, -\frac{432}{2389}, -\frac{675}{2389})$ $- \frac{54}{2389}\sqrt{2053}e^2 \otimes e_9$	{1258, 1345679, 236, 4789}
976421:1	$0, 0, \frac{110}{6949}\sqrt{317}e^{12}, \frac{110}{6949}\sqrt{943}e^{13}, \frac{55}{6949}\sqrt{5890}e^{23},$ $\frac{220}{6949}\sqrt{107}e^{14}, \frac{55}{6949}\sqrt{4210}e^{25}, \frac{55}{6949}\sqrt{1558}e^{16}, \frac{55}{6949}\sqrt{6038}e^{18}$	$(-\frac{605}{6949}, \frac{1265}{6949}, \frac{660}{6949}, \frac{55}{6949}, \frac{1925}{6949}, -\frac{550}{6949}, \frac{3190}{6949}, -\frac{1155}{6949}, -\frac{1760}{6949})$ $+ \frac{220}{6949}\sqrt{733}e^2 \otimes e_9$	{1258, 1345679}
976421:1	$0, 0, \frac{54}{1861}\sqrt{34}e^{12}, \frac{54}{1861}\sqrt{159}e^{13}, \frac{27}{1861}\sqrt{14}e^{23}, \frac{162}{1861}\sqrt{29}e^{14},$ $\frac{27}{1861}\sqrt{1286}e^{25}, \frac{27}{1861}\sqrt{1074}e^{16}, \frac{297}{1861}\sqrt{6}e^{18}$	$(\frac{189}{1861}, -\frac{243}{1861}, -\frac{54}{1861}, \frac{135}{1861}, -\frac{297}{1861}, \frac{324}{1861}, -\frac{540}{1861}, \frac{513}{1861}, \frac{702}{1861})$ $+ \frac{54}{1861}\sqrt{761}e^1 \otimes e_7$	{148, 3456789}
9654321:1	$0, 0, 0, \frac{16}{1061}\sqrt{1473}e^{12}, \frac{1}{1061}\sqrt{4910}e^{14}, \frac{4}{1061}\sqrt{16203}e^{15},$ $\frac{1}{1061}\sqrt{385926}e^{16}, \frac{28}{1061}\sqrt{491}e^{17}, \frac{3}{1061}\sqrt{28478}e^{18}$	$(\frac{130}{1061}, -\frac{361}{1061}, \frac{158}{1061}, \frac{231}{1061}, -\frac{101}{1061}, \frac{29}{1061}, \frac{159}{1061}, \frac{289}{1061}, \frac{419}{1061})$ $+ \frac{1}{1061}\sqrt{886746}e^1 \otimes e_2$	{13579, 1579, 2, 23}
9654321:1	$0, 0, 0, \frac{2}{41}\sqrt{481}e^{12}, \frac{1}{123}\sqrt{7030}e^{14}, \frac{2}{123}\sqrt{74}e^{15}, \frac{1}{41}\sqrt{518}e^{16},$ $\frac{2}{123}\sqrt{1517}e^{17}, \frac{1}{123}\sqrt{4514}e^{18}$	$(-\frac{10}{123}, \frac{43}{82}, -\frac{167}{246}, \frac{109}{246}, \frac{89}{246}, \frac{23}{82}, \frac{49}{246}, \frac{29}{246}, \frac{3}{82})$ $+ \frac{1}{123}\sqrt{30562}e^2 \otimes e_3$	{1256789, 134, 24579, 368}
9654321:1	$0, 0, 0, \frac{126}{319}e^{12}, \frac{9}{319}\sqrt{42}e^{14}, \frac{18}{319}\sqrt{19}e^{15}, \frac{9}{319}\sqrt{158}e^{16},$ $\frac{18}{319}\sqrt{51}e^{17}, \frac{9}{319}\sqrt{214}e^{18}$	$(\frac{18}{319}, -\frac{63}{319}, \frac{126}{319}, -\frac{45}{319}, -\frac{27}{319}, -\frac{9}{319}, \frac{9}{319}, \frac{27}{319}, \frac{45}{319})$ $+ \frac{18}{319}\sqrt{47}e^3 \otimes e_9 + \frac{9}{319}\sqrt{386}e^1 \otimes e_2$	{1368, 256789}
9654321:1	$0, 0, 0, \frac{2}{319}\sqrt{3531}e^{12}, \frac{2}{319}\sqrt{5885}e^{14}, \frac{2}{319}\sqrt{7062}e^{15}, \frac{2}{319}\sqrt{7062}e^{16},$ $\frac{2}{319}\sqrt{5885}e^{17}, \frac{2}{319}\sqrt{3531}e^{18}$	$(\frac{1}{29}, \frac{25}{319}, -\frac{7}{11}, \frac{36}{319}, \frac{47}{11}, \frac{2}{69}, \frac{80}{319}, \frac{91}{319})$ $+ \frac{6}{319}\sqrt{3103}e^1 \otimes e_3$	{12579, 1468, 23456789, 3}
9654321:1	$0, 0, 0, \frac{1}{123}\sqrt{4514}e^{12}, \frac{2}{123}\sqrt{1517}e^{14}, \frac{1}{41}\sqrt{518}e^{15}, \frac{2}{123}\sqrt{74}e^{16},$ $\frac{1}{123}\sqrt{7030}e^{17}, \frac{2}{41}\sqrt{481}e^{18}$	$(-\frac{10}{123}, \frac{35}{123}, 1, \frac{25}{123}, \frac{5}{41}, \frac{5}{123}, -\frac{5}{123}, -\frac{5}{41}, -\frac{25}{123})$ $+ \frac{1}{123}\sqrt{30562}e^3 \otimes e_9$	{1245679, 138, 25789, 346}
9654321:2	$0, 0, 0, \frac{70}{1033}\sqrt{266}e^{12}, \frac{35}{1033}\sqrt{393}e^{14}, \frac{70}{1033}\sqrt{17}e^{15}, \frac{35}{1033}\sqrt{319}e^{16},$ $\frac{210}{1033}\sqrt{10}e^{17}, \frac{35}{1033}\sqrt{191}e^{18} + \frac{70}{1033}\sqrt{47}e^{23}$	$(-\frac{105}{1033}, \frac{595}{1033}, -\frac{630}{1033}, \frac{490}{1033}, \frac{385}{1033}, \frac{280}{1033}, \frac{175}{1033}, \frac{70}{1033}, -\frac{35}{1033})$ $+ \frac{35}{1033}\sqrt{1757}e^2 \otimes e_3$	{134, 368}
9654321:3	$0, 0, 0, \frac{186}{1153}\sqrt{30}e^{12}, \frac{31}{1153}\sqrt{139}e^{14}, \frac{62}{1153}\sqrt{13}e^{15}, \frac{31}{1153}\sqrt{97}e^{16},$ $\frac{62}{1153}\sqrt{77}e^{17}, \frac{31}{1153}\sqrt{581}e^{18} + \frac{62}{1153}\sqrt{229}e^{24}$	$(\frac{31}{1153}, \frac{155}{1153}, -\frac{806}{1153}, \frac{186}{1153}, \frac{217}{1153}, \frac{248}{1153}, \frac{279}{1153}, \frac{310}{1153}, \frac{341}{1153})$ $+ \frac{31}{1153}\sqrt{1959}e^2 \otimes e_3$	{1346789, 24568}
9654321:3	$0, 0, 0, \frac{58}{1261}\sqrt{66}e^{12}, \frac{29}{1261}\sqrt{470}e^{14}, \frac{87}{1261}\sqrt{57}e^{15}, \frac{29}{1261}\sqrt{498}e^{16},$ $\frac{145}{1261}\sqrt{17}e^{17}, \frac{203}{1261}\sqrt{6}e^{18} + \frac{29}{1261}\sqrt{105}e^{24}$	$(\frac{29}{1261}, \frac{145}{1261}, -\frac{812}{1261}, \frac{174}{1261}, \frac{203}{1261}, \frac{232}{1261}, \frac{261}{1261}, \frac{290}{1261}, \frac{319}{1261})$ $+ \frac{29}{1261}\sqrt{2073}e^1 \otimes e_3$	{1468, 23456789}
9654321:3	$0, 0, 0, \frac{3}{34}\sqrt{34}e^{12}, \frac{3}{17}\sqrt{17}e^{14}, \frac{1}{34}\sqrt{238}e^{15}, \frac{1}{17}\sqrt{34}e^{16},$ $\frac{1}{34}\sqrt{510}e^{17}, \frac{1}{17}\sqrt{221}e^{18} + \frac{1}{17}\sqrt{170}e^{24}$	$(0, 0, 1, 0, 0, 0, 0, 0, 0)$ $+ \frac{1}{34}\sqrt{1938}e^3 \otimes e_9$	{1234568, 46789}
965321:1	$0, 0, 0, \frac{22}{2725}\sqrt{4881}e^{12}, \frac{2}{2725}\sqrt{844413}e^{14}, \frac{2}{2725}\sqrt{538537}e^{24},$ $\frac{2}{2725}\sqrt{222899}e^{15}, \frac{4}{2725}\sqrt{183851}e^{17}, \frac{8}{2725}\sqrt{126906}e^{18}$	$(-\frac{207}{2725}, \frac{506}{2725}, 1, \frac{299}{2725}, \frac{92}{2725}, \frac{161}{2725}, -\frac{23}{545}, -\frac{322}{2725}, -\frac{529}{2725})$ $+ \frac{2}{2725}\sqrt{3662377}e^3 \otimes e_9$	{124579, 138, 2356, 46789}
965321:1	$0, 0, 0, \frac{1}{705}\sqrt{27094}e^{12}, \frac{8}{705}\sqrt{2622}e^{14}, \frac{2}{705}\sqrt{116679}e^{24}, \frac{1}{705}\sqrt{44574}e^{15},$ $\frac{2}{705}\sqrt{35834}e^{17}, \frac{7}{705}\sqrt{2622}e^{18}$	$(\frac{13}{141}, -\frac{39}{235}, 1, -\frac{52}{705}, \frac{13}{705}, -\frac{169}{705}, \frac{26}{235}, \frac{143}{705}, \frac{208}{705})$ $+ \frac{1}{705}\sqrt{997234}e^3 \otimes e_6$	{123458, 1379, 256789, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
965321:1	$0, 0, 0, \frac{2}{745}\sqrt{26214}e^{12}, \frac{2}{745}\sqrt{42662}e^{14}, \frac{1}{745}\sqrt{10794}e^{24}, \frac{11}{745}\sqrt{1542}e^{15},$ $\frac{2}{745}\sqrt{40863}e^{17}, \frac{1}{745}\sqrt{101258}e^{18}$	$(\frac{38}{745}, \frac{43}{745}, -\frac{476}{745}, \frac{81}{745}, \frac{119}{745}, \frac{124}{745}, \frac{157}{745}, \frac{39}{149}, \frac{233}{745})$ $+ \frac{1}{745}\sqrt{627594}e^1 \otimes e_3$	{1258, 1479, 23456789, 36}
965321:1	$0, 0, 0, \frac{10}{193}\sqrt{38}e^{12}, \frac{10}{193}\sqrt{2}e^{14}, \frac{25}{193}\sqrt{6}e^{24}, \frac{5}{193}\sqrt{22}e^{15},$ $\frac{10}{193}\sqrt{23}e^{17}, \frac{5}{193}\sqrt{202}e^{18}$	$(-\frac{10}{193}, \frac{35}{193}, -\frac{60}{193}, \frac{25}{193}, \frac{15}{193}, \frac{60}{193}, \frac{5}{193}, -\frac{5}{193}, -\frac{15}{193})$ $+ \frac{20}{193}\sqrt{22}e^2 \otimes e_9 + \frac{5}{193}\sqrt{330}e^1 \otimes e_3$	{234, 35789}
965321:1	$0, 0, 0, \frac{4}{557}\sqrt{6290}e^{12}, \frac{2}{557}\sqrt{23495}e^{14}, \frac{4}{557}\sqrt{10545}e^{24}, \frac{4}{557}\sqrt{4070}e^{15},$ $\frac{10}{557}\sqrt{185}e^{17}, \frac{4}{557}\sqrt{9805}e^{18}$	$(-\frac{74}{557}, \frac{193}{557}, \frac{84}{557}, \frac{119}{557}, \frac{45}{557}, \frac{312}{557}, -\frac{29}{557}, -\frac{103}{557}, -\frac{177}{557})$ $+ \frac{2}{557}\sqrt{87505}e^2 \otimes e_9$	{12368, 1268, 1345679, 145679}
965321:1	$0, 0, 0, \frac{25}{2149}\sqrt{613}e^{12}, \frac{25}{2149}\sqrt{922}e^{14}, \frac{50}{2149}\sqrt{435}e^{24}, \frac{25}{2149}\sqrt{467}e^{15},$ $\frac{25}{2149}\sqrt{238}e^{17}, \frac{25}{2149}\sqrt{1193}e^{18}$	$(-\frac{125}{2149}, \frac{225}{2149}, \frac{950}{2149}, \frac{100}{2149}, -\frac{25}{2149}, \frac{325}{2149}, -\frac{150}{2149}, -\frac{275}{2149}, -\frac{400}{2149})$ $+ \frac{25}{2149}\sqrt{1495}e^3 \otimes e_6 + \frac{25}{2149}\sqrt{2398}e^2 \otimes e_9$	{1268, 145679}
965321:1	$0, 0, 0, \frac{2}{2761}\sqrt{1409839}e^{12}, \frac{10}{2761}\sqrt{2594}e^{14}, \frac{2}{2761}\sqrt{1215289}e^{24},$ $\frac{2}{2761}\sqrt{214005}e^{15}, \frac{2}{2761}\sqrt{252915}e^{17}, \frac{4}{2761}\sqrt{45395}e^{18}$	$(-\frac{85}{2761}, \frac{67}{251}, -\frac{1857}{2761}, \frac{652}{2761}, \frac{567}{2761}, \frac{1389}{2761}, \frac{482}{2761}, \frac{397}{2761}, \frac{312}{2761})$ $+ \frac{2}{2761}\sqrt{2994773}e^2 \otimes e_3$	{126, 13456789, 2479, 358}
965321:2	$0, 0, 0, \frac{134}{4661}\sqrt{417}e^{12}, \frac{67}{4661}\sqrt{2130}e^{14},$ $\frac{67}{4661}\sqrt{3426}e^{13} + \frac{134}{4661}\sqrt{2}e^{24}, \frac{67}{4661}\sqrt{1394}e^{15}, \frac{134}{4661}\sqrt{137}e^{17}, \frac{268}{4661}\sqrt{231}e^{18}$	$(-\frac{603}{4661}, \frac{1474}{4661}, \frac{2948}{4661}, \frac{871}{4661}, \frac{268}{4661}, \frac{2345}{4661}, -\frac{335}{4661}, -\frac{938}{4661}, -\frac{1541}{4661})$ $+ \frac{335}{4661}\sqrt{322}e^3 \otimes e_9$	{1245679, 4789}
965321:2	$0, 0, 0, \frac{100}{1249}\sqrt{43}e^{12}, \frac{25}{1249}\sqrt{527}e^{14}, \frac{25}{1249}\sqrt{755}e^{13} + \frac{150}{1249}\sqrt{35}e^{24},$ $\frac{50}{1249}\sqrt{58}e^{15}, \frac{25}{1249}\sqrt{313}e^{17}, \frac{50}{1249}\sqrt{277}e^{18}$	$(-\frac{125}{1249}, \frac{275}{1249}, \frac{550}{1249}, \frac{150}{1249}, \frac{25}{1249}, \frac{425}{1249}, -\frac{100}{1249}, -\frac{225}{1249}, -\frac{350}{1249})$ $+ \frac{25}{1249}\sqrt{2153}e^2 \otimes e_9$	{12368, 1345679}
965321:2	$0, 0, 0, \frac{11}{329}\sqrt{118}e^{12}, \frac{11}{329}\sqrt{170}e^{14}, \frac{11}{329}\sqrt{281}e^{13} + \frac{11}{658}\sqrt{282}e^{24},$ $\frac{11}{658}\sqrt{906}e^{15}, \frac{11}{329}\sqrt{217}e^{17}, \frac{11}{658}\sqrt{566}e^{18}$	$(\frac{33}{329}, -\frac{44}{329}, -\frac{88}{329}, -\frac{11}{329}, \frac{22}{329}, -\frac{55}{329}, \frac{55}{329}, \frac{88}{329}, \frac{121}{329})$ $+ \frac{11}{658}\sqrt{2230}e^1 \otimes e_3$	{2345789, 3}
965321:3	$0, 0, 0, \frac{806}{2441}\sqrt{7}e^{12}, \frac{62}{2441}\sqrt{254}e^{14}, \frac{62}{2441}\sqrt{1137}e^{24}, \frac{62}{2441}\sqrt{337}e^{15},$ $\frac{62}{2441}\sqrt{203}e^{17}, \frac{124}{2441}\sqrt{37}e^{18} + \frac{124}{2441}\sqrt{179}e^{23}$	$(-\frac{217}{2441}, \frac{837}{2441}, -\frac{1085}{2441}, \frac{620}{2441}, \frac{403}{2441}, \frac{1457}{2441}, \frac{186}{2441}, -\frac{31}{2441}, -\frac{248}{2441})$ $+ \frac{62}{2441}\sqrt{2121}e^2 \otimes e_3$	{1345678, 247}
965321:4	$0, 0, 0, \frac{70}{1621}\sqrt{246}e^{12}, -\frac{35}{1621}\sqrt{29}e^{14}, \frac{105}{1621}\sqrt{119}e^{24}, \frac{35}{1621}\sqrt{5}e^{15},$ $\frac{35}{1621}\sqrt{159}e^{17}, \frac{35}{1621}\sqrt{463}e^{18} + \frac{35}{1621}\sqrt{907}e^{26}$	$(\frac{70}{1621}, \frac{140}{1621}, -\frac{1085}{1621}, \frac{210}{1621}, \frac{280}{1621}, \frac{350}{1621}, \frac{350}{1621}, \frac{420}{1621}, \frac{490}{1621})$ $+ \frac{35}{1621}\sqrt{2706}e^2 \otimes e_3$	{1256, 1346789, 24579, 38, 1256, 1346789, 24579, 38}
965321:4	$0, 0, 0, \frac{70}{1621}\sqrt{246}e^{12}, \frac{35}{1621}\sqrt{29}e^{14}, \frac{105}{1621}\sqrt{119}e^{24}, \frac{35}{1621}\sqrt{5}e^{15},$ $\frac{35}{1621}\sqrt{159}e^{17}, \frac{35}{1621}\sqrt{463}e^{18} + \frac{35}{1621}\sqrt{907}e^{26}$	$(\frac{70}{1621}, \frac{140}{1621}, -\frac{1085}{1621}, \frac{210}{1621}, \frac{280}{1621}, \frac{350}{1621}, \frac{350}{1621}, \frac{420}{1621}, \frac{490}{1621})$ $+ \frac{35}{1621}\sqrt{2706}e^2 \otimes e_3$	{1256, 1346789, 24579, 38, 1256, 1346789, 24579, 38}
965321:4	$0, 0, 0, \frac{51}{421}\sqrt{14}e^{12}, -\frac{17}{421}\sqrt{185}e^{14}, \frac{34}{421}\sqrt{3}e^{24}, \frac{51}{421}\sqrt{22}e^{15},$ $\frac{17}{421}\sqrt{177}e^{17}, \frac{17}{421}\sqrt{122}e^{18} + \frac{17}{421}\sqrt{33}e^{26}$	$(\frac{17}{421}, \frac{34}{421}, -\frac{272}{421}, \frac{51}{421}, \frac{68}{421}, \frac{85}{421}, \frac{85}{421}, \frac{102}{421}, \frac{119}{421})$ $+ \frac{51}{421}\sqrt{77}e^1 \otimes e_3$	{1258, 1479, 23456789, 36, 1258, 1479, 23456789, 36}
965321:4	$0, 0, 0, \frac{51}{421}\sqrt{14}e^{12}, \frac{17}{421}\sqrt{185}e^{14}, \frac{34}{421}\sqrt{3}e^{24}, \frac{51}{421}\sqrt{22}e^{15},$ $\frac{17}{421}\sqrt{177}e^{17}, \frac{17}{421}\sqrt{122}e^{18} + \frac{17}{421}\sqrt{33}e^{26}$	$(\frac{17}{421}, \frac{34}{421}, -\frac{272}{421}, \frac{51}{421}, \frac{68}{421}, \frac{85}{421}, \frac{85}{421}, \frac{102}{421}, \frac{119}{421})$ $+ \frac{51}{421}\sqrt{77}e^1 \otimes e_3$	{1258, 1479, 23456789, 36, 1258, 1479, 23456789, 36}
964321:1	$0, 0, 0, \frac{3}{271}\sqrt{6235}e^{12}, \frac{3}{271}\sqrt{5771}e^{13}, \frac{12}{271}\sqrt{58}e^{14}, \frac{27}{271}\sqrt{29}e^{16},$ $\frac{6}{271}\sqrt{899}e^{17}, \frac{3}{271}\sqrt{2813}e^{18}$	$(-\frac{35}{271}, \frac{327}{542}, -\frac{125}{542}, \frac{257}{542}, -\frac{195}{542}, \frac{187}{542}, \frac{117}{542}, \frac{47}{542}, -\frac{23}{542})$ $+ \frac{18}{271}\sqrt{377}e^2 \otimes e_5$	{1236789, 145, 2468, 3579}
964321:1	$0, 0, 0, \frac{5}{47}\sqrt{58}e^{12}, \frac{10}{47}\sqrt{5}e^{13}, \frac{5}{47}\sqrt{2}e^{14}, \frac{5}{47}\sqrt{22}e^{16},$ $\frac{5}{47}\sqrt{2}e^{17}, \frac{5}{47}\sqrt{58}e^{18}$	$(-\frac{10}{47}, \frac{65}{94}, \frac{25}{94}, \frac{45}{94}, \frac{5}{94}, \frac{25}{94}, \frac{5}{94}, -\frac{15}{94}, -\frac{35}{94})$ $+ \frac{5}{47}\sqrt{158}e^2 \otimes e_9$	{2347, 2457, 3689, 5689}
964321:1	$0, 0, 0, \frac{6}{2393}\sqrt{52405}e^{12}, \frac{28}{2393}\sqrt{669}e^{13}, \frac{4}{2393}\sqrt{36795}e^{14},$ $\frac{6}{2393}\sqrt{55973}e^{16}, \frac{6}{2393}\sqrt{66454}e^{17}, \frac{2}{2393}\sqrt{430167}e^{18}$	$(\frac{392}{2393}, -\frac{946}{2393}, \frac{175}{2393}, -\frac{554}{2393}, \frac{567}{2393}, -\frac{162}{2393}, \frac{230}{2393}, \frac{622}{2393}, \frac{1014}{2393})$ $+ \frac{6}{2393}\sqrt{150302}e^1 \otimes e_2$	{1368, 1568, 2, 235}
964321:1	$0, 0, 0, \frac{31}{2669}\sqrt{1230}e^{12}, \frac{62}{2669}\sqrt{329}e^{13}, \frac{62}{2669}\sqrt{339}e^{14}, \frac{1116}{2669}e^{16},$ $\frac{155}{2669}\sqrt{42}e^{17}, \frac{31}{2669}\sqrt{618}e^{18}$	$(\frac{93}{2669}, \frac{186}{2669}, -\frac{868}{2669}, \frac{279}{2669}, -\frac{775}{2669}, \frac{372}{2669}, \frac{465}{2669}, \frac{558}{2669}, \frac{651}{2669})$ $+ \frac{62}{2669}\sqrt{934}e^1 \otimes e_3 + \frac{93}{2669}\sqrt{102}e^2 \otimes e_5$	{1268, 2346789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
964321:1	$0, 0, 0, \frac{3}{271}\sqrt{2813}e^{12}, \frac{3}{271}\sqrt{5771}e^{13}, \frac{6}{271}\sqrt{899}e^{14}, \frac{27}{271}\sqrt{29}e^{16},$ $\frac{12}{271}\sqrt{58}e^{17}, \frac{3}{271}\sqrt{6235}e^{18}$	$(-\frac{35}{271}, \frac{171}{542}, \frac{343}{542}, \frac{101}{542}, \frac{273}{542}, \frac{31}{542}, -\frac{39}{542}, -\frac{109}{542}, -\frac{179}{542})$ $+\frac{18}{271}\sqrt{377}e^3 \otimes e_9$	{1245679, 138, 2356, 4789}
964321:1	$0, 0, 0, \frac{40}{117}e^{12}, \frac{5}{819}\sqrt{2422}e^{13}, \frac{5}{819}\sqrt{658}e^{14}, \frac{5}{819}\sqrt{1330}e^{16},$ $\frac{10}{819}\sqrt{707}e^{17}, \frac{10}{819}\sqrt{959}e^{18}$	$(\frac{5}{117}, -\frac{20}{117}, \frac{10}{39}, -\frac{5}{39}, \frac{35}{117}, -\frac{10}{117}, -\frac{5}{117}, 0, \frac{5}{117})$ $+\frac{10}{819}\sqrt{1526}e^1 \otimes e_2 + \frac{5}{819}\sqrt{4354}e^3 \otimes e_9$	{1579, 26789}
964321:1	$0, 0, 0, \frac{10}{799}\sqrt{942}e^{12}, \frac{2}{799}\sqrt{48827}e^{13}, \frac{8}{799}\sqrt{2355}e^{14}, \frac{6}{799}\sqrt{4710}e^{16},$ $\frac{8}{799}\sqrt{2355}e^{17}, \frac{10}{799}\sqrt{942}e^{18}$	$(\frac{60}{799}, -\frac{33}{799}, \frac{254}{799}, \frac{27}{799}, -\frac{194}{799}, \frac{87}{799}, \frac{147}{799}, \frac{207}{799}, \frac{267}{799})$ $+\frac{2}{799}\sqrt{107074}e^1 \otimes e_3$	{1268, 1479, 2346789, 3}
964321:1	$0, 0, 0, \frac{10}{491}\sqrt{174}e^{12}, \frac{5}{491}\sqrt{915}e^{13}, \frac{5}{491}\sqrt{561}e^{14}, \frac{10}{491}\sqrt{129}e^{16},$ $\frac{5}{491}\sqrt{561}e^{17}, \frac{10}{491}\sqrt{174}e^{18}$	$(-\frac{15}{491}, \frac{85}{491}, -\frac{90}{491}, \frac{70}{491}, -\frac{105}{491}, \frac{55}{491}, \frac{40}{491}, \frac{25}{491}, \frac{10}{491})$ $+\frac{10}{491}\sqrt{435}e^1 \otimes e_3 + \frac{5}{491}\sqrt{921}e^2 \otimes e_9$	{1268, 1479}
964321:2	$0, 0, 0, \frac{123}{5279}\sqrt{110}e^{12}, \frac{164}{5279}\sqrt{154}e^{13}, \frac{164}{5279}\sqrt{111}e^{24},$ $\frac{123}{5279}\sqrt{230}e^{26}, \frac{492}{5279}\sqrt{13}e^{27}, \frac{41}{5279}\sqrt{1182}e^{28}$	$(\frac{123}{5279}, \frac{246}{5279}, -\frac{1558}{5279}, \frac{369}{5279}, -\frac{1435}{5279}, \frac{615}{5279}, \frac{861}{5279}, \frac{1107}{5279}, \frac{1353}{5279})$ $+\frac{123}{5279}\sqrt{762}e^2 \otimes e_5 + \frac{328}{5279}\sqrt{34}e^1 \otimes e_3$	{1456789, 35}
964321:2	$0, 0, 0, \frac{70}{2761}\sqrt{421}e^{12}, \frac{140}{2761}\sqrt{195}e^{13}, \frac{140}{2761}\sqrt{46}e^{24},$ $\frac{70}{2761}\sqrt{299}e^{26}, \frac{140}{2761}\sqrt{19}e^{27}, \frac{70}{2761}\sqrt{941}e^{28}$	$(\frac{1560}{2761}, -\frac{490}{2761}, \frac{315}{2761}, \frac{1070}{2761}, \frac{1245}{2761}, \frac{580}{2761}, \frac{90}{2761}, -\frac{400}{2761}, -\frac{890}{2761})$ $+\frac{140}{2761}\sqrt{574}e^1 \otimes e_9$	{1238, 1258, 2345679, 24679}
964321:2	$0, 0, 0, \frac{650}{7853}e^{12}, \frac{25}{7853}\sqrt{5010}e^{13}, \frac{100}{7853}\sqrt{71}e^{24}, \frac{25}{7853}\sqrt{1846}e^{26},$ $\frac{25}{7853}\sqrt{2806}e^{27}, \frac{100}{7853}\sqrt{251}e^{28}$	$(\frac{825}{7853}, -\frac{125}{7853}, -\frac{1575}{7853}, \frac{700}{7853}, -\frac{750}{7853}, \frac{575}{7853}, \frac{450}{7853}, \frac{325}{7853}, \frac{200}{7853})$ $+\frac{1850}{7853}e^1 \otimes e_9 + \frac{75}{7853}\sqrt{930}e^2 \otimes e_5$	{12368, 2479}
964321:2	$0, 0, 0, \frac{1}{1529}\sqrt{65890}e^{12}, \frac{4}{1529}\sqrt{39534}e^{13}, \frac{4}{1529}\sqrt{19767}e^{24},$ $\frac{1}{1529}\sqrt{513942}e^{26}, \frac{4}{1529}\sqrt{32945}e^{27}, \frac{3}{1529}\sqrt{39534}e^{28}$	$(-\frac{195}{1529}, \frac{14}{139}, -\frac{250}{1529}, -\frac{41}{1529}, -\frac{445}{1529}, \frac{113}{1529}, \frac{267}{1529}, \frac{421}{1529}, \frac{575}{1529})$ $+\frac{3}{1529}\sqrt{166522}e^2 \otimes e_5$	{123479, 15, 268, 3456789}
964321:2	$0, 0, 0, \frac{4}{1361}\sqrt{58469}e^{12}, \frac{1}{1361}\sqrt{1211002}e^{13}, \frac{1}{1361}\sqrt{537122}e^{24},$ $\frac{4}{1361}\sqrt{991}e^{26}, \frac{1}{1361}\sqrt{628294}e^{27}, \frac{8}{1361}\sqrt{21802}e^{28}$	$(\frac{69}{1361}, -\frac{62}{1361}, \frac{750}{1361}, \frac{7}{1361}, \frac{819}{1361}, \frac{55}{1361}, -\frac{117}{1361}, -\frac{179}{1361}, -\frac{241}{1361})$ $+\frac{1}{1361}\sqrt{2285246}e^3 \otimes e_9$	{1245679, 136, 2358, 4789}
964321:2	$0, 0, 0, \frac{24}{2527}\sqrt{13265}e^{12}, \frac{4}{2527}\sqrt{111047}e^{13}, \frac{4}{2527}\sqrt{147810}e^{24},$ $\frac{12}{2527}\sqrt{7201}e^{26}, \frac{12}{2527}\sqrt{17813}e^{27}, \frac{4}{2527}\sqrt{138714}e^{28}$	$(\frac{1560}{2527}, -\frac{309}{2527}, -\frac{1472}{2527}, \frac{1251}{2527}, \frac{88}{2527}, \frac{942}{2527}, \frac{633}{2527}, \frac{324}{2527}, \frac{15}{2527})$ $+\frac{4}{2527}\sqrt{813334}e^1 \otimes e_3$	{126789, 1468, 234, 379}
964321:3	$0, 0, 0, \frac{21}{281}\sqrt{110}e^{12}, \frac{49}{281}\sqrt{5}e^{13}, \frac{35}{281}\sqrt{5}e^{14}, \frac{35}{281}\sqrt{10}e^{16},$ $\frac{21}{281}\sqrt{15}e^{17}, \frac{49}{281}\sqrt{470}e^{18} + \frac{14}{281}\sqrt{195}e^{35}$	$(-\frac{49}{281}, \frac{182}{281}, -\frac{7}{281}, \frac{133}{281}, -\frac{56}{281}, \frac{84}{281}, \frac{35}{281}, -\frac{14}{281}, -\frac{63}{281})$ $+\frac{7}{281}\sqrt{2345}e^2 \otimes e_9$	{1235678, 12678}
964321:3	$0, 0, 0, \frac{14}{59}\sqrt{6}e^{12}, \frac{14}{177}\sqrt{14}e^{13}, \frac{7}{177}\sqrt{58}e^{14}, \frac{14}{177}\sqrt{55}e^{16},$ $\frac{7}{59}\sqrt{30}e^{17}, \frac{28}{177}\sqrt{13}e^{18} + \frac{7}{177}\sqrt{34}e^{35}$	$(\frac{28}{177}, -\frac{70}{177}, \frac{7}{59}, -\frac{14}{59}, \frac{49}{177}, -\frac{14}{177}, \frac{14}{177}, \frac{14}{59}, \frac{70}{177})$ $+\frac{7}{177}\sqrt{602}e^1 \otimes e_2$	{1368, 1568}
964321:5	$0, 0, 0, \frac{14}{167}\sqrt{85}e^{12}, \frac{49}{167}\sqrt{6}e^{13}, \frac{14}{167}\sqrt{23}e^{14}, \frac{7}{167}\sqrt{86}e^{16},$ $\frac{7}{167}\sqrt{194}e^{17}, \frac{14}{167}\sqrt{58}e^{18} + \frac{70}{167}\sqrt{2}e^{23}$	$(-\frac{35}{501}, \frac{77}{167}, -\frac{175}{501}, \frac{196}{501}, -\frac{70}{167}, \frac{161}{501}, \frac{42}{167}, \frac{91}{501}, \frac{56}{501})$ $+\frac{7}{167}\sqrt{858}e^2 \otimes e_5$	{145, 3579}
964321:6	$0, 0, 0, \frac{154}{5821}\sqrt{1121}e^{12}, \frac{1617}{5821}\sqrt{2}e^{13}, \frac{77}{5821}\sqrt{2010}e^{24},$ $\frac{77}{5821}\sqrt{2}e^{26}, \frac{154}{5821}\sqrt{97}e^{27}, \frac{308}{5821}\sqrt{3266}e^{15} + \frac{77}{5821}\sqrt{165}e^{28}$	$(\frac{2387}{5821}, -\frac{231}{5821}, -\frac{3542}{5821}, \frac{2156}{5821}, -\frac{1155}{5821}, \frac{1925}{5821}, \frac{1694}{5821}, \frac{1463}{5821}, \frac{1232}{5821})$ $+\frac{154}{5821}\sqrt{2451}e^1 \otimes e_3$	{126789, 234}
964321:7	$0, 0, 0, \frac{43}{5417}\sqrt{2010}e^{12}, \frac{43}{5417}\sqrt{4586}e^{13}, \frac{129}{5417}\sqrt{418}e^{14},$ $\frac{129}{5417}\sqrt{402}e^{16}, \frac{172}{5417}\sqrt{201}e^{17}, \frac{258}{5417}\sqrt{71}e^{18} + \frac{129}{5417}\sqrt{182}e^{24}$	$(\frac{129}{5417}, \frac{516}{5417}, -\frac{1720}{5417}, \frac{645}{5417}, -\frac{1591}{5417}, \frac{774}{5417}, \frac{903}{5417}, \frac{1032}{5417}, \frac{1161}{5417})$ $+\frac{43}{5417}\sqrt{9430}e^1 \otimes e_3$	{1268, 2346789}
964321:7	$0, 0, 0, \frac{1770}{5173}\sqrt{2}e^{12}, \frac{177}{5173}\sqrt{494}e^{13}, \frac{59}{5173}\sqrt{3482}e^{14},$ $\frac{59}{5173}\sqrt{1438}e^{16}, \frac{118}{5173}\sqrt{181}e^{17}, \frac{118}{5173}\sqrt{751}e^{18} + \frac{118}{5173}\sqrt{902}e^{24}$	$(-\frac{59}{5173}, -\frac{236}{5173}, \frac{2950}{5173}, -\frac{295}{5173}, \frac{413}{739}, -\frac{354}{5173}, -\frac{59}{739}, -\frac{472}{5173}, -\frac{531}{5173})$ $+\frac{59}{5173}\sqrt{9010}e^3 \otimes e_9$	{138, 4789}
964321:7	$0, 0, 0, \frac{235}{5117}\sqrt{170}e^{12}, \frac{94}{5117}\sqrt{1174}e^{13}, \frac{94}{5117}\sqrt{223}e^{14},$ $\frac{94}{5117}\sqrt{365}e^{16}, \frac{47}{5117}\sqrt{2310}e^{17}, \frac{47}{5117}\sqrt{3442}e^{18} + \frac{94}{5117}\sqrt{1214}e^{24}$	$(\frac{141}{5117}, \frac{564}{5117}, -\frac{1786}{5117}, \frac{705}{5117}, -\frac{235}{731}, \frac{846}{5117}, \frac{141}{731}, \frac{1128}{5117}, \frac{1269}{5117})$ $+\frac{47}{5117}\sqrt{9110}e^2 \otimes e_5$	{1456789, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
964321:8	$0, 0, 0, \frac{38}{2941}\sqrt{310}e^{12}, \frac{38}{2941}\sqrt{1354}e^{13}, \frac{38}{2941}\sqrt{677}e^{24},$ $\frac{76}{2941}\sqrt{199}e^{26}, \frac{38}{2941}\sqrt{858}e^{27}, \frac{38}{2941}\sqrt{811}e^{14} + \frac{38}{2941}\sqrt{863}e^{28}$	$(\frac{228}{2941}, \frac{57}{2941}, -\frac{893}{2941}, \frac{285}{2941}, -\frac{665}{2941}, \frac{342}{2941}, \frac{399}{2941}, \frac{456}{2941}, \frac{513}{2941})$ $+ \frac{152}{2941}\sqrt{155}e^2 \otimes e_5$	{123479, 15}
964321:8	$0, 0, 0, \frac{65}{604}\sqrt{66}e^{12}, \frac{13}{151}\sqrt{59}e^{13}, \frac{13}{604}\sqrt{78}e^{24}, \frac{13}{604}\sqrt{174}e^{26},$ $\frac{39}{302}\sqrt{14}e^{27}, \frac{13}{604}\sqrt{1398}e^{14} + \frac{13}{151}\sqrt{57}e^{28}$	$(\frac{39}{302}, \frac{39}{1208}, -\frac{65}{151}, \frac{195}{1208}, -\frac{91}{302}, \frac{117}{604}, \frac{273}{1208}, \frac{39}{151}, \frac{351}{1208})$ $+ \frac{65}{302}\sqrt{22}e^1 \otimes e_3$	{126789, 1468}
964321:8	$0, 0, 0, \frac{62}{2741}\sqrt{870}e^{12}, \frac{186}{2741}\sqrt{122}e^{13}, \frac{62}{2741}\sqrt{611}e^{24}, \frac{124}{2741}e^{26},$ $\frac{62}{2741}\sqrt{634}e^{27}, \frac{62}{2741}\sqrt{317}e^{14} + \frac{62}{2741}\sqrt{1303}e^{28}$	$(-\frac{124}{2741}, -\frac{31}{2741}, \frac{1643}{2741}, -\frac{155}{2741}, \frac{1519}{2741}, -\frac{186}{2741}, -\frac{217}{2741}, \frac{248}{2741}, -\frac{279}{2741})$ $+ \frac{248}{2741}\sqrt{145}e^3 \otimes e_9$	{2358, 4789}
96531:1	$0, 0, 0, \frac{4}{1195}\sqrt{33074}e^{12}, \frac{2}{1195}\sqrt{95627}e^{14}, \frac{2}{1195}\sqrt{85561}e^{24},$ $\frac{4}{1195}\sqrt{24446}e^{15}, \frac{4}{1195}\sqrt{24446}e^{26}, \frac{12}{1195}\sqrt{10066}e^{17}$	$(-\frac{99}{1195}, \frac{153}{1195}, 1, \frac{54}{1195}, -\frac{9}{239}, \frac{207}{1195}, -\frac{144}{1195}, \frac{72}{239}, -\frac{243}{1195})$ $+ \frac{2}{1195}\sqrt{698149}e^3 \otimes e_9$	{124589, 137, 25679, 3468}
96531:1	$0, 0, 0, \frac{2}{1227}\sqrt{158813}e^{12}, \frac{4}{3681}\sqrt{74307}e^{14}, \frac{2}{3681}\sqrt{1886815}e^{24},$ $\frac{2}{3681}\sqrt{167555}e^{15}, \frac{20}{1227}\sqrt{1457}e^{26}, \frac{94}{3681}\sqrt{31}e^{17}$	$(\frac{7}{1227}, \frac{505}{3681}, -\frac{803}{1227}, \frac{526}{3681}, \frac{547}{3681}, \frac{1031}{3681}, \frac{568}{3681}, \frac{512}{1227}, \frac{589}{3681})$ $+ \frac{2}{3681}\sqrt{4436565}e^2 \otimes e_3$	{126, 13456789, 2478, 359}
96531:1	$0, 0, 0, \frac{2}{3645}\sqrt{1083369}e^{12}, \frac{2}{3645}\sqrt{74019}e^{14}, \frac{2}{3645}\sqrt{509161}e^{24},$ $\frac{2}{3645}\sqrt{894957}e^{15}, \frac{8}{3645}\sqrt{192898}e^{26}, \frac{4}{3645}\sqrt{217571}e^{17}$	$(\frac{377}{3645}, -\frac{406}{3645}, 1, -\frac{29}{3645}, \frac{116}{1215}, -\frac{29}{243}, \frac{145}{729}, -\frac{841}{3645}, \frac{1102}{3645})$ $+ \frac{2}{3645}\sqrt{6574233}e^3 \otimes e_8$	{12478, 1359, 236, 456789}
96531:1	$0, 0, 0, \frac{52}{5103}\sqrt{123}e^{12}, \frac{52}{5103}\sqrt{753}e^{14}, \frac{260}{5103}\sqrt{58}e^{24}, \frac{52}{5103}\sqrt{159}e^{15},$ $\frac{104}{5103}\sqrt{415}e^{26}, \frac{52}{5103}\sqrt{1409}e^{17}$	$(-\frac{338}{5103}, \frac{52}{729}, \frac{26}{63}, \frac{26}{5103}, -\frac{104}{1701}, \frac{130}{1701}, -\frac{650}{5103}, \frac{754}{5103}, -\frac{988}{5103})$ $+ \frac{52}{5103}\sqrt{1506}e^3 \otimes e_8 - \frac{52}{567}\sqrt{37}e^2 \otimes e_9$	{12367, 145689, 248, 3579}
96531:1	$0, 0, 0, \frac{52}{5103}\sqrt{123}e^{12}, \frac{52}{5103}\sqrt{753}e^{14}, \frac{260}{5103}\sqrt{58}e^{24}, \frac{52}{5103}\sqrt{159}e^{15},$ $\frac{104}{5103}\sqrt{415}e^{26}, \frac{52}{5103}\sqrt{1409}e^{17}$	$(-\frac{338}{5103}, \frac{52}{729}, \frac{26}{63}, \frac{26}{5103}, -\frac{104}{1701}, \frac{130}{1701}, -\frac{650}{5103}, \frac{754}{5103}, -\frac{988}{5103})$ $+ \frac{52}{5103}\sqrt{1506}e^3 \otimes e_8 + \frac{52}{567}\sqrt{37}e^2 \otimes e_9$	{12367, 145689, 248, 3579}
96531:1	$0, 0, 0, \frac{1}{653}\sqrt{17574}e^{12}, \frac{6}{653}\sqrt{2929}e^{14}, \frac{1}{653}\sqrt{11514}e^{24}, \frac{4}{653}\sqrt{7878}e^{15},$ $\frac{4}{653}\sqrt{7878}e^{26}, \frac{30}{653}\sqrt{101}e^{17}$	$(\frac{92}{653}, -\frac{101}{653}, \frac{117}{653}, -\frac{9}{653}, \frac{83}{653}, \frac{110}{653}, \frac{175}{653}, -\frac{211}{653}, \frac{267}{653})$ $+ \frac{4}{653}\sqrt{20301}e^1 \otimes e_8$	{1347, 147, 368, 68}
96531:1	$0, 0, 0, \frac{34}{3223}\sqrt{111}e^{12}, \frac{102}{3223}\sqrt{77}e^{14}, \frac{34}{3223}\sqrt{21}e^{24}, \frac{17}{3223}\sqrt{4782}e^{15},$ $\frac{17}{3223}\sqrt{4782}e^{26}, \frac{153}{3223}\sqrt{70}e^{17}$	$(\frac{17}{293}, -\frac{289}{3223}, \frac{1326}{3223}, -\frac{102}{3223}, \frac{85}{3223}, -\frac{391}{3223}, \frac{272}{3223}, -\frac{680}{3223}, \frac{459}{3223})$ $+ \frac{102}{3223}\sqrt{151}e^3 \otimes e_9 + \frac{17}{3223}\sqrt{11382}e^1 \otimes e_8$	{123467, 238}
96531:1	$0, 0, 0, \frac{1}{471}\sqrt{59334}e^{12}, \frac{1}{157}\sqrt{10230}e^{14}, \frac{1}{471}\sqrt{11594}e^{24}, \frac{16}{471}\sqrt{341}e^{15},$ $\frac{1}{471}\sqrt{682}e^{26}, \frac{1}{471}\sqrt{56606}e^{17}$	$(\frac{38}{471}, \frac{5}{157}, -\frac{101}{157}, \frac{53}{471}, \frac{91}{471}, \frac{68}{157}, \frac{43}{471}, \frac{83}{157}, \frac{167}{471})$ $+ \frac{1}{157}\sqrt{29326}e^1 \otimes e_3$	{1259, 1478, 23456789, 36}
96531:1	$0, 0, 0, \frac{8}{3771}\sqrt{23541}e^{12}, \frac{8}{3771}\sqrt{44427}e^{14}, \frac{16}{3771}\sqrt{22243}e^{24},$ $\frac{40}{3771}\sqrt{177}e^{15}, \frac{16}{3771}\sqrt{16579}e^{26}, \frac{40}{3771}\sqrt{3245}e^{17}$	$(-\frac{472}{3771}, \frac{740}{3771}, \frac{208}{1257}, \frac{268}{3771}, -\frac{68}{1257}, \frac{112}{419}, -\frac{676}{3771}, \frac{1748}{3771}, -\frac{1148}{3771})$ $- \frac{8}{3771}\sqrt{185673}e^2 \otimes e_9$	{12367, 1267, 1345689, 145689, 2348, 248, 3579, 579}
96531:1	$0, 0, 0, \frac{8}{3771}\sqrt{23541}e^{12}, \frac{8}{3771}\sqrt{44427}e^{14}, \frac{16}{3771}\sqrt{22243}e^{24},$ $\frac{40}{3771}\sqrt{177}e^{15}, \frac{16}{3771}\sqrt{16579}e^{26}, \frac{40}{3771}\sqrt{3245}e^{17}$	$(-\frac{472}{3771}, \frac{740}{3771}, \frac{208}{1257}, \frac{268}{3771}, -\frac{68}{1257}, \frac{112}{419}, -\frac{676}{3771}, \frac{1748}{3771}, -\frac{1148}{3771})$ $+ \frac{8}{3771}\sqrt{185673}e^2 \otimes e_9$	{12367, 1267, 1345689, 145689, 2348, 248, 3579, 579}
96531:1	$0, 0, 0, \frac{78}{8653}\sqrt{617}e^{12}, \frac{1872}{8653}e^{14}, \frac{1248}{8653}\sqrt{2}e^{24}, \frac{117}{8653}\sqrt{318}e^{15},$ $\frac{39}{8653}\sqrt{4946}e^{26}, \frac{39}{8653}\sqrt{2094}e^{17}$	$(\frac{39}{509}, -\frac{507}{8653}, -\frac{2028}{8653}, \frac{156}{8653}, \frac{819}{8653}, -\frac{351}{8653}, \frac{1482}{8653}, -\frac{858}{8653}, \frac{2145}{8653})$ $+ \frac{39}{8653}\sqrt{8858}e^1 \otimes e_8 + \frac{78}{8653}\sqrt{1563}e^2 \otimes e_3$	{12569, 245789}
96531:2	$0, 0, 0, \frac{52}{1031}\sqrt{138}e^{12}, \frac{26}{1031}\sqrt{699}e^{14}, \frac{26}{1031}\sqrt{393}e^{24}, \frac{52}{1031}\sqrt{6}e^{15},$ $\frac{104}{1031}\sqrt{69}e^{13} + \frac{52}{1031}\sqrt{6}e^{26}, \frac{156}{1031}\sqrt{30}e^{17}$	$(-\frac{143}{1031}, \frac{221}{1031}, \frac{663}{1031}, \frac{78}{1031}, -\frac{65}{1031}, \frac{299}{1031}, -\frac{208}{1031}, \frac{520}{1031}, -\frac{351}{1031})$ $+ \frac{26}{1031}\sqrt{2613}e^3 \otimes e_9$	{123457, 189, 23568, 4679}
96531:2	$0, 0, 0, \frac{52}{1031}\sqrt{138}e^{12}, \frac{26}{1031}\sqrt{699}e^{14}, \frac{26}{1031}\sqrt{393}e^{24}, \frac{52}{1031}\sqrt{6}e^{15},$ $\frac{104}{1031}\sqrt{69}e^{13} + \frac{52}{1031}\sqrt{6}e^{26}, \frac{156}{1031}\sqrt{30}e^{17}$	$(-\frac{143}{1031}, \frac{221}{1031}, \frac{663}{1031}, \frac{78}{1031}, -\frac{65}{1031}, \frac{299}{1031}, -\frac{208}{1031}, \frac{520}{1031}, -\frac{351}{1031})$ $- \frac{26}{1031}\sqrt{2613}e^3 \otimes e_9$	{123457, 189, 23568, 4679}
96531:2	$0, 0, 0, \frac{13}{411}\sqrt{174}e^{12}, \frac{13}{411}\sqrt{38}e^{14}, \frac{13}{411}\sqrt{74}e^{24}, \frac{26}{411}\sqrt{83}e^{15},$ $\frac{26}{411}\sqrt{87}e^{13} + \frac{13}{411}\sqrt{2}e^{26}, \frac{13}{411}\sqrt{218}e^{17}$	$(\frac{52}{411}, -\frac{13}{137}, -\frac{39}{137}, \frac{13}{411}, \frac{65}{411}, -\frac{26}{411}, \frac{39}{137}, -\frac{65}{411}, \frac{169}{411})$ $+ \frac{13}{137}\sqrt{78}e^1 \otimes e_3$	{147, 2345679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96531:2	$0, 0, 0, \frac{52}{3375}\sqrt{399e^{12}}, \frac{52}{3375}\sqrt{453e^{14}}, \frac{104}{3375}\sqrt{319e^{24}},$ $\frac{52}{3375}\sqrt{309e^{15}}, \frac{52}{3375}\sqrt{798e^{13}} + \frac{52}{3375}\sqrt{1258e^{26}}, \frac{52}{3375}\sqrt{1409e^{17}}$	$(-\frac{338}{3375}, \frac{442}{3375}, \frac{442}{1125}, \frac{104}{3375}, -\frac{26}{375}, \frac{182}{1125}, -\frac{572}{3375}, \frac{988}{3375}, -\frac{182}{675})$ $-\frac{52}{3375}\sqrt{2847e^2} \otimes e_9$	{1267, 1345689, 248, 3579}
96531:2	$0, 0, 0, \frac{52}{3375}\sqrt{399e^{12}}, \frac{52}{3375}\sqrt{453e^{14}}, \frac{104}{3375}\sqrt{319e^{24}},$ $\frac{52}{3375}\sqrt{309e^{15}}, \frac{52}{3375}\sqrt{798e^{13}} + \frac{52}{3375}\sqrt{1258e^{26}}, \frac{52}{3375}\sqrt{1409e^{17}}$	$(-\frac{338}{3375}, \frac{442}{3375}, \frac{442}{1125}, \frac{104}{3375}, -\frac{26}{375}, \frac{182}{1125}, -\frac{572}{3375}, \frac{988}{3375}, -\frac{182}{675})$ $+\frac{52}{3375}\sqrt{2847e^2} \otimes e_9$	{1267, 1345689, 248, 3579}
96531:3	$0, 0, 0, \frac{324}{6349}\sqrt{141e^{12}}, \frac{648}{6349}\sqrt{19e^{14}}, \frac{81}{6349}\sqrt{1090e^{24}},$ $\frac{162}{6349}\sqrt{373e^{15}}, \frac{162}{6349}\sqrt{890e^{26}}, \frac{1053}{6349}\sqrt{2e^{17}} + \frac{81}{6349}\sqrt{4274e^{23}}$	$(\frac{1053}{6349}, -\frac{162}{907}, \frac{4212}{6349}, -\frac{81}{6349}, \frac{972}{6349}, -\frac{1215}{6349}, \frac{2025}{6349}, -\frac{2349}{6349}, \frac{3078}{6349})$ $+\frac{1053}{6349}\sqrt{62e^3} \otimes e_8$	{1568, 289}
96531:3	$0, 0, 0, \frac{102}{979}\sqrt{5e^{12}}, \frac{102}{6853}\sqrt{717e^{14}}, \frac{102}{6853}\sqrt{203e^{24}},$ $\frac{51}{6853}\sqrt{4242e^{15}}, \frac{51}{6853}\sqrt{5246e^{26}}, \frac{51}{6853}\sqrt{4290e^{17}} + \frac{102}{6853}\sqrt{753e^{23}}$	$(\frac{663}{6853}, -\frac{867}{6853}, \frac{2652}{6853}, -\frac{204}{6853}, \frac{459}{6853}, -\frac{153}{979}, \frac{102}{623}, -\frac{1938}{6853}, \frac{255}{979})$ $+\frac{51}{6853}\sqrt{11414e^1} \otimes e_8$	{123569, 2345789}
96531:3	$0, 0, 0, \frac{38}{693}\sqrt{113e^{12}}, \frac{19}{693}\sqrt{238e^{14}}, \frac{19}{693}\sqrt{6e^{24}}, \frac{38}{693}\sqrt{22e^{15}},$ $\frac{76}{693}\sqrt{31e^{26}}, \frac{76}{693}\sqrt{11e^{17}} + \frac{19}{693}\sqrt{554e^{23}}$	$(-\frac{19}{231}, \frac{19}{99}, -\frac{76}{231}, \frac{76}{693}, \frac{19}{693}, \frac{19}{63}, -\frac{38}{693}, \frac{38}{77}, -\frac{95}{693})$ $+\frac{19}{693}\sqrt{1198e^2} \otimes e_3$	{1345678, 35}
96531:84	$0, 0, 0, \frac{1}{2}\sqrt{2e^{12}}, \frac{1}{14}\sqrt{14e^{14}}, \frac{1}{14}\sqrt{14e^{24}}, \frac{1}{7}\sqrt{14e^{15}},$ $\frac{1}{7}\sqrt{14e^{26}}, \frac{3}{14}\sqrt{14e^{17}} + \frac{3}{14}\sqrt{14e^{28}}$	$(0, 0, 1, 0, 0, 0, 0, 0, 0)$ $+\frac{1}{14}\sqrt{322e^3} \otimes e_9$	{124569, 34}
96531:84	$0, 0, 0, \frac{12}{101}\sqrt{21e^{12}}, \frac{2}{101}\sqrt{978e^{14}}, \frac{4}{101}\sqrt{6e^{24}}, \frac{16}{101}\sqrt{15e^{15}},$ $\frac{2}{101}\sqrt{42e^{26}}, \frac{22}{101}\sqrt{6e^{17}} + \frac{4}{101}\sqrt{69e^{28}}$	$(\frac{6}{101}, \frac{6}{101}, -\frac{66}{101}, \frac{12}{101}, \frac{18}{101}, \frac{18}{101}, \frac{24}{101}, \frac{24}{101}, \frac{30}{101})$ $+\frac{6}{101}\sqrt{334e^1} \otimes e_3$	{1478, 23456789}
96421:1	$0, 0, 0, \frac{19}{2237}\sqrt{962e^{12}}, \frac{114}{2237}\sqrt{30e^{13}}, \frac{19}{2237}\sqrt{39e^{14}}, \frac{95}{2237}\sqrt{33e^{35}},$ $\frac{19}{2237}\sqrt{770e^{16}}, \frac{19}{2237}\sqrt{1465e^{18}}$	$(\frac{57}{2237}, -\frac{304}{2237}, \frac{285}{2237}, -\frac{247}{2237}, \frac{342}{2237}, -\frac{190}{2237}, \frac{627}{2237}, -\frac{133}{2237}, -\frac{76}{2237})$ $+\frac{19}{2237}\sqrt{1999e^1} \otimes e_2 + \frac{19}{2237}\sqrt{2046e^3} \otimes e_9$	{1378, 2689}
96421:1	$0, 0, 0, \frac{13}{465}\sqrt{69e^{12}}, \frac{13}{310}\sqrt{70e^{13}}, \frac{13}{930}\sqrt{258e^{14}}, \frac{13}{465}\sqrt{310e^{35}},$ $\frac{13}{465}\sqrt{42e^{16}}, \frac{13}{930}\sqrt{546e^{18}}$	$(-\frac{26}{155}, \frac{13}{31}, \frac{52}{465}, \frac{39}{155}, -\frac{26}{465}, \frac{13}{155}, \frac{26}{155}, -\frac{13}{155}, -\frac{39}{155})$ $+\frac{13}{465}\sqrt{471e^3} \otimes e_9 + \frac{13}{930}\sqrt{1434e^2} \otimes e_7$	{134678, 2489}
96421:1	$0, 0, 0, \frac{2}{881}\sqrt{54290e^{12}}, \frac{2}{881}\sqrt{31110e^{13}}, \frac{5}{881}\sqrt{8418e^{14}}, \frac{3}{881}\sqrt{6710e^{35}},$ $\frac{2}{881}\sqrt{97295e^{16}}, \frac{1}{881}\sqrt{319030e^{18}}$	$(\frac{204}{881}, -\frac{406}{881}, -\frac{3}{881}, -\frac{202}{881}, \frac{202}{881}, \frac{2}{881}, \frac{198}{881}, \frac{206}{881}, \frac{410}{881})$ $+\frac{5}{881}\sqrt{35746e^1} \otimes e_2$	{13679, 15679, 2, 235}
96421:1	$0, 0, 0, \frac{10}{1123}\sqrt{3029e^{12}}, \frac{2}{1123}\sqrt{147955e^{13}}, \frac{2}{1123}\sqrt{688515e^{14}},$ $\frac{2}{3369}\sqrt{1308295e^{35}}, \frac{2}{1123}\sqrt{2330e^{16}}, \frac{2}{1123}\sqrt{16310e^{18}}$	$(-\frac{193}{1123}, \frac{363}{1123}, \frac{1103}{3369}, \frac{170}{1123}, \frac{524}{3369}, -\frac{23}{1123}, \frac{1627}{3369}, -\frac{216}{1123}, -\frac{409}{1123})$ $+\frac{10}{3369}\sqrt{133509e^3} \otimes e_9$	{1234678, 1579, 2356, 489}
96421:1	$0, 0, 0, \frac{4}{861}\sqrt{34365e^{12}}, \frac{1}{861}\sqrt{87690e^{13}}, \frac{1}{287}\sqrt{16590e^{14}},$ $\frac{2}{861}\sqrt{113365e^{35}}, \frac{8}{861}\sqrt{1185e^{16}}, \frac{1}{861}\sqrt{125610e^{18}}$	$(-\frac{37}{287}, \frac{171}{287}, -\frac{83}{861}, \frac{134}{287}, -\frac{194}{861}, \frac{97}{287}, -\frac{277}{861}, \frac{60}{287}, \frac{23}{287})$ $+\frac{5}{861}\sqrt{45030e^2} \otimes e_7$	{1235689, 12689, 378, 578}
96421:2	$0, 0, 0, \frac{1}{2109}\sqrt{1187538e^{12}}, \frac{4}{2109}\sqrt{107958e^{13}}, \frac{4}{703}\sqrt{2841e^{24}},$ $\frac{1}{2109}\sqrt{1331482e^{35}}, \frac{1}{2109}\sqrt{607974e^{26}}, \frac{4}{2109}\sqrt{116481e^{28}}$	$(\frac{17}{703}, -\frac{42}{703}, \frac{26}{111}, -\frac{25}{703}, \frac{545}{2109}, -\frac{67}{703}, \frac{1039}{2109}, -\frac{109}{703}, -\frac{151}{703})$ $+\frac{1}{703}\sqrt{373118e^3} \otimes e_9$	{1245679, 156789, 2358, 345}
96421:2	$0, 0, 0, \frac{1}{591}\sqrt{66e^{12}}, \frac{4}{591}\sqrt{15e^{13}}, \frac{4}{591}\sqrt{6e^{24}}, \frac{1}{591}\sqrt{394e^{35}},$ $\frac{1}{591}\sqrt{246e^{26}}, \frac{8}{591}\sqrt{6e^{28}}$	$(-\frac{5}{197}, \frac{2}{197}, \frac{10}{591}, -\frac{3}{197}, -\frac{5}{591}, -\frac{1}{197}, \frac{5}{591}, \frac{1}{197}, \frac{3}{197})$ $+\frac{1}{591}\sqrt{510e^3} \otimes e_9 + \frac{4}{591}\sqrt{33e^2} \otimes e_7$	{137, 269}
96421:2	$0, 0, 0, \frac{8}{4203}\sqrt{64617e^{12}}, \frac{16}{4203}\sqrt{36295e^{13}}, \frac{8}{4203}\sqrt{19635e^{24}},$ $\frac{16}{4203}\sqrt{7735e^{35}}, \frac{8}{4203}\sqrt{9401e^{26}}, \frac{680}{4203}\sqrt{21e^{28}}$	$(\frac{2440}{4203}, -\frac{952}{4203}, -\frac{700}{4203}, \frac{496}{1401}, \frac{580}{1401}, \frac{536}{4203}, \frac{1040}{4203}, -\frac{416}{4203}, -\frac{152}{467})$ $+\frac{56}{4203}\sqrt{8313e^1} \otimes e_9$	{12378, 12578, 1347, 1457, 234569, 2469, 35689, 689}
96421:2	$0, 0, 0, \frac{8}{4203}\sqrt{64617e^{12}}, \frac{16}{4203}\sqrt{36295e^{13}}, \frac{8}{4203}\sqrt{19635e^{24}},$ $\frac{16}{4203}\sqrt{7735e^{35}}, \frac{8}{4203}\sqrt{9401e^{26}}, \frac{680}{4203}\sqrt{21e^{28}}$	$(\frac{2440}{4203}, -\frac{952}{4203}, -\frac{700}{4203}, \frac{496}{1401}, \frac{580}{1401}, \frac{536}{4203}, \frac{1040}{4203}, -\frac{416}{4203}, -\frac{152}{467})$ $-\frac{56}{4203}\sqrt{8313e^1} \otimes e_9$	{12378, 12578, 1347, 1457, 234569, 2469, 35689, 689}
96421:3	$0, 0, 0, \frac{4}{119}\sqrt{555e^{12}}, \frac{2}{119}\sqrt{705e^{13}}, \frac{6}{119}\sqrt{35e^{14}}, \frac{2}{119}\sqrt{2730e^{15}},$ $\frac{6}{119}\sqrt{170e^{16}}, \frac{10}{119}\sqrt{57e^{18}}$	$(-\frac{22}{119}, \frac{82}{119}, \frac{6}{119}, \frac{60}{119}, -\frac{16}{119}, \frac{38}{119}, -\frac{38}{119}, \frac{16}{119}, -\frac{6}{119})$ $+\frac{90}{119}\sqrt{3e^2} \otimes e_7$	{125, 1346789, 248, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96421:3	$0, 0, 0, \frac{17}{1409}\sqrt{749}e^{12}, \frac{34}{1409}\sqrt{210}e^{13}, \frac{34}{1409}\sqrt{33}e^{14}, \frac{17}{1409}\sqrt{471}e^{15},$ $\frac{17}{1409}\sqrt{383}e^{16}, \frac{34}{1409}\sqrt{199}e^{18}$	$(\frac{51}{1409}, -\frac{238}{1409}, \frac{255}{1409}, -\frac{187}{1409}, \frac{306}{1409}, -\frac{136}{1409}, \frac{357}{1409}, -\frac{85}{1409}, -\frac{34}{1409})$ $+\frac{34}{1409}\sqrt{367}e^1 \otimes e_2 + \frac{51}{1409}\sqrt{123}e^3 \otimes e_9$	{1378, 2689}
96421:3	$0, 0, 0, \frac{10}{119}\sqrt{57}e^{12}, \frac{2}{119}\sqrt{2730}e^{13}, \frac{6}{119}\sqrt{170}e^{14}, \frac{2}{119}\sqrt{705}e^{15},$ $\frac{6}{119}\sqrt{35}e^{16}, \frac{4}{119}\sqrt{555}e^{18}$	$(-\frac{22}{119}, \frac{83}{238}, \frac{21}{34}, \frac{39}{238}, \frac{103}{238}, -\frac{5}{238}, \frac{59}{238}, -\frac{7}{34}, -\frac{93}{238})$ $+\frac{90}{119}\sqrt{3}e^3 \otimes e_9$	{1234678, 159, 23567, 489}
96421:3	$0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{4}{123}\sqrt{133}e^{13}, \frac{4}{41}\sqrt{15}e^{14}, \frac{4}{123}\sqrt{14}e^{15},$ $\frac{4}{123}\sqrt{106}e^{16}, \frac{4}{123}\sqrt{61}e^{18}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, -\frac{20}{123}, \frac{8}{41}, \frac{28}{123})$ $+\frac{4}{123}\sqrt{145}e^2 \otimes e_7 + \frac{8}{123}\sqrt{74}e^1 \otimes e_3$	{1478, 234689}
96421:3	$0, 0, 0, \frac{2}{683}\sqrt{38270}e^{12}, \frac{2}{683}\sqrt{30315}e^{13}, \frac{2}{683}\sqrt{16770}e^{14}, \frac{2}{683}\sqrt{30315}e^{15},$ $\frac{2}{683}\sqrt{41495}e^{16}, \frac{2}{683}\sqrt{35905}e^{18}$	$(\frac{141}{683}, -\frac{289}{683}, -\frac{33}{683}, -\frac{148}{683}, \frac{108}{683}, -\frac{7}{683}, \frac{249}{683}, \frac{134}{683}, \frac{275}{683})$ $+\frac{10}{683}\sqrt{4945}e^1 \otimes e_2$	{13679, 1569, 2, 2357}
96421:3	$0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{30}e^{13}, \frac{3}{10}\sqrt{2}e^{14}, \frac{1}{10}\sqrt{30}e^{15},$ $\frac{3}{10}\sqrt{2}e^{16}, \frac{1}{10}\sqrt{6}e^{18}$	$(-\frac{1}{5}, \frac{1}{2}, \frac{3}{10}, \frac{3}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{10}, -\frac{3}{10})$ $+\frac{3}{10}\sqrt{6}e^2 \otimes e_7 + \frac{3}{10}\sqrt{6}e^3 \otimes e_9$	{1259, 134678, 2489, 3567}
96421:3	$0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{30}e^{13}, \frac{3}{10}\sqrt{2}e^{14}, \frac{1}{10}\sqrt{30}e^{15},$ $\frac{3}{10}\sqrt{2}e^{16}, \frac{1}{10}\sqrt{6}e^{18}$	$(-\frac{1}{5}, \frac{1}{2}, \frac{3}{10}, \frac{3}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{10}, -\frac{3}{10})$ $+\frac{3}{10}\sqrt{6}e^2 \otimes e_7 - \frac{3}{10}\sqrt{6}e^3 \otimes e_9$	{1259, 134678, 2489, 3567}
96421:3	$0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{3}{7}\sqrt{2}e^{13}, \frac{3}{7}\sqrt{2}e^{14}, \frac{1}{7}\sqrt{6}e^{15},$ $\frac{3}{7}\sqrt{2}e^{16}, \frac{2}{7}\sqrt{3}e^{18}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, 0, -\frac{1}{7}, \frac{1}{7}, 0, \frac{2}{7}, \frac{3}{7})$ $+\frac{6}{7}e^1 \otimes e_3$	{1269, 148, 2346789, 37}
96421:4	$0, 0, 0, \frac{22}{109}\sqrt{17}e^{12}, \frac{11}{109}\sqrt{10}e^{13}, \frac{33}{109}\sqrt{2}e^{24}, \frac{55}{109}\sqrt{2}e^{15},$ $\frac{11}{109}\sqrt{10}e^{26}, \frac{44}{109}e^{28}$	$(\frac{55}{109}, -\frac{11}{109}, -\frac{66}{109}, \frac{44}{109}, -\frac{11}{109}, \frac{33}{109}, \frac{44}{109}, \frac{22}{109}, \frac{11}{109})$ $+\frac{66}{109}\sqrt{5}e^1 \otimes e_3$	{126789, 14679, 234, 38}
96421:4	$0, 0, 0, \frac{2}{155}\sqrt{71}e^{12}, \frac{3}{155}\sqrt{142}e^{13}, \frac{1}{155}\sqrt{5538}e^{24}, \frac{1}{155}\sqrt{7242}e^{15},$ $\frac{1}{155}\sqrt{7242}e^{26}, \frac{1}{155}\sqrt{1349}e^{28}$	$(-\frac{33}{155}, \frac{5}{31}, \frac{4}{31}, -\frac{8}{155}, -\frac{13}{155}, \frac{17}{155}, -\frac{46}{155}, \frac{42}{155}, \frac{67}{155})$ $+\frac{6}{155}\sqrt{497}e^2 \otimes e_7$	{12569, 1346789, 248, 357}
96421:4	$0, 0, 0, \frac{15}{157}\sqrt{6}e^{12}, \frac{3}{157}\sqrt{210}e^{13}, \frac{6}{157}\sqrt{21}e^{24}, \frac{3}{157}\sqrt{246}e^{15},$ $\frac{3}{157}\sqrt{246}e^{26}, \frac{12}{157}\sqrt{21}e^{28}$	$(-\frac{30}{157}, \frac{12}{157}, \frac{45}{157}, -\frac{18}{157}, \frac{15}{157}, -\frac{6}{157}, -\frac{15}{157}, \frac{6}{157}, \frac{18}{157})$ $+\frac{3}{157}\sqrt{354}e^3 \otimes e_9 + \frac{3}{157}\sqrt{462}e^2 \otimes e_7$	{137, 269}
96421:4	$0, 0, 0, \frac{22}{589}\sqrt{41}e^{12}, \frac{11}{589}\sqrt{6}e^{13}, \frac{11}{589}\sqrt{222}e^{24}, \frac{143}{589}\sqrt{2}e^{15},$ $\frac{11}{589}\sqrt{214}e^{26}, \frac{22}{589}\sqrt{35}e^{28}$	$(\frac{11}{589}, \frac{33}{589}, -\frac{110}{589}, \frac{44}{589}, -\frac{99}{589}, \frac{77}{589}, -\frac{88}{589}, \frac{110}{589}, \frac{143}{589})$ $+\frac{22}{589}\sqrt{165}e^2 \otimes e_7 + \frac{22}{589}\sqrt{93}e^1 \otimes e_3$	{146789, 2348}
96421:4	$0, 0, 0, \frac{1}{575}\sqrt{178846}e^{12}, \frac{2}{575}\sqrt{53333}e^{13}, \frac{3}{575}\sqrt{5614}e^{24}, \frac{1}{575}\sqrt{85814}e^{15},$ $\frac{1}{575}\sqrt{85814}e^{26}, \frac{1}{575}\sqrt{230174}e^{28}$	$(-\frac{52}{575}, -\frac{2}{115}, \frac{309}{575}, -\frac{62}{575}, \frac{257}{575}, -\frac{72}{575}, \frac{41}{115}, -\frac{82}{575}, -\frac{4}{25})$ $+\frac{3}{575}\sqrt{42506}e^3 \otimes e_9$	{124569, 15689, 23578, 3457}
96421:4	$0, 0, 0, \frac{4}{1253}\sqrt{7}e^{12}, \frac{60}{1253}e^{13}, \frac{8}{1253}\sqrt{30}e^{24}, \frac{8}{1253}\sqrt{105}e^{15},$ $\frac{4}{1253}\sqrt{249}e^{26}, \frac{8}{1253}\sqrt{95}e^{28}$	$(\frac{30}{1253}, -\frac{2}{1253}, -\frac{10}{179}, \frac{4}{179}, -\frac{40}{1253}, \frac{26}{1253}, -\frac{10}{1253}, \frac{24}{1253}, \frac{22}{1253})$ $+\frac{12}{1253}\sqrt{57}e^1 \otimes e_9 + \frac{12}{1253}\sqrt{65}e^2 \otimes e_7$	{12458, 137, 269, 3456789}
96421:4	$0, 0, 0, \frac{4}{1253}\sqrt{7}e^{12}, \frac{60}{1253}e^{13}, \frac{8}{1253}\sqrt{30}e^{24}, \frac{8}{1253}\sqrt{105}e^{15},$ $\frac{4}{1253}\sqrt{249}e^{26}, \frac{8}{1253}\sqrt{95}e^{28}$	$(\frac{30}{1253}, -\frac{2}{1253}, -\frac{10}{179}, \frac{4}{179}, -\frac{40}{1253}, \frac{26}{1253}, -\frac{10}{1253}, \frac{24}{1253}, \frac{22}{1253})$ $-\frac{12}{1253}\sqrt{57}e^1 \otimes e_9 + \frac{12}{1253}\sqrt{65}e^2 \otimes e_7$	{12458, 137, 269, 3456789}
96421:5	$0, 0, 0, \frac{87}{2249}\sqrt{138}e^{12}, \frac{29}{2249}\sqrt{530}e^{13}, \frac{87}{2249}\sqrt{106}e^{14}, \frac{29}{2249}\sqrt{318}e^{24},$ $\frac{261}{2249}\sqrt{10}e^{16}, \frac{58}{2249}\sqrt{123}e^{18}$	$(\frac{87}{2249}, \frac{174}{2249}, -\frac{58}{173}, \frac{261}{2249}, -\frac{667}{2249}, \frac{348}{2249}, \frac{435}{2249}, \frac{435}{2249}, \frac{522}{2249})$ $+\frac{29}{2249}\sqrt{2590}e^1 \otimes e_3 + \frac{58}{2249}\sqrt{339}e^2 \otimes e_5$	{12679, 234689}
96421:5	$0, 0, 0, \frac{1}{1489}\sqrt{502158}e^{12}, \frac{2}{1489}\sqrt{186497}e^{13}, \frac{6}{1489}\sqrt{22406}e^{14},$ $\frac{3}{1489}\sqrt{19770}e^{24}, \frac{6}{1489}\sqrt{20429}e^{16}, \frac{2}{1489}\sqrt{116643}e^{18}$	$(\frac{150}{1489}, -\frac{39}{1489}, -\frac{509}{1489}, \frac{111}{1489}, -\frac{359}{1489}, \frac{261}{1489}, \frac{72}{1489}, \frac{411}{1489}, \frac{561}{1489})$ $+\frac{2}{1489}\sqrt{422419}e^1 \otimes e_3$	{1269, 148, 2346789, 37}
96421:5	$0, 0, 0, \frac{1}{477}\sqrt{30706}e^{12}, \frac{8}{1431}\sqrt{24801}e^{13}, \frac{2}{1431}\sqrt{209037}e^{14},$ $\frac{1}{1431}\sqrt{1405390}e^{24}, \frac{8}{1431}\sqrt{68498}e^{16}, \frac{2}{1431}\sqrt{1181}e^{18}$	$(\frac{40}{477}, -\frac{271}{1431}, \frac{253}{477}, -\frac{151}{1431}, \frac{293}{477}, -\frac{31}{1431}, -\frac{422}{1431}, \frac{89}{1431}, \frac{209}{1431})$ $+\frac{4}{477}\sqrt{20077}e^3 \otimes e_7$	{123468, 139, 267, 4789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96421:5	$0, 0, 0, \frac{2}{147}\sqrt{7}e^{12}, \frac{1}{1323}\sqrt{8610}e^{13}, \frac{1}{1323}\sqrt{4494}e^{14}, \frac{2}{1323}\sqrt{1918}e^{24},$ $\frac{1}{1323}\sqrt{3290}e^{16}, \frac{16}{1323}\sqrt{7}e^{18}$	$(-\frac{1}{63}, \frac{4}{189}, \frac{2}{63}, \frac{1}{189}, \frac{1}{63}, -\frac{2}{189}, \frac{5}{189}, -\frac{5}{189}, -\frac{8}{189})$ $+\frac{1}{441}\sqrt{910}e^3 \otimes e_7 + \frac{2}{441}\sqrt{259}e^2 \otimes e_5$	{1456789, 3569}
96421:5	$0, 0, 0, \frac{12}{2873}\sqrt{20410}e^{12}, \frac{12}{2873}\sqrt{39878}e^{13}, \frac{6}{2873}\sqrt{101579}e^{14},$ $\frac{6}{2873}\sqrt{57305}e^{24}, \frac{24}{2873}\sqrt{157}e^{16}, \frac{72}{2873}\sqrt{1099}e^{18}$	$(-\frac{393}{2873}, \frac{603}{2873}, \frac{1857}{2873}, \frac{210}{2873}, \frac{1464}{2873}, -\frac{183}{2873}, \frac{813}{2873}, -\frac{576}{2873}, -\frac{57}{169})$ $+\frac{30}{2873}\sqrt{15229}e^3 \otimes e_9$	{123468, 159, 23567, 4789}
96421:5	$0, 0, 0, \frac{22}{2889}\sqrt{83}e^{12}, \frac{4}{2889}\sqrt{260205}e^{13}, \frac{166}{2889}\sqrt{66}e^{14},$ $\frac{2}{2889}\sqrt{1030777}e^{24}, \frac{2}{2889}\sqrt{497585}e^{16}, \frac{2}{2889}\sqrt{346027}e^{18}$	$(-\frac{71}{963}, \frac{869}{2889}, -\frac{248}{963}, \frac{656}{2889}, -\frac{319}{963}, \frac{443}{2889}, \frac{1525}{2889}, \frac{230}{2889}, \frac{17}{2889})$ $+\frac{2}{963}\sqrt{252901}e^2 \otimes e_5$	{1237, 1456789, 248, 3569}
96421:5	$0, 0, 0, \frac{90}{6869}\sqrt{346}e^{12}, \frac{90}{6869}\sqrt{1366}e^{13}, \frac{45}{6869}\sqrt{2986}e^{14},$ $\frac{225}{6869}\sqrt{154}e^{24}, \frac{45}{6869}\sqrt{1886}e^{16}, \frac{45}{6869}\sqrt{834}e^{18}$	$(-\frac{810}{6869}, \frac{1665}{6869}, \frac{450}{6869}, \frac{855}{6869}, -\frac{360}{6869}, \frac{45}{6869}, \frac{2520}{6869}, -\frac{765}{6869}, -\frac{1575}{6869})$ $+\frac{45}{6869}\sqrt{5174}e^3 \otimes e_9 + \frac{45}{6869}\sqrt{7374}e^2 \otimes e_5$	{2489, 356}
96421:6	$0, 0, 0, \frac{24}{1265}\sqrt{65}e^{12}, \frac{48}{1265}\sqrt{67}e^{13}, \frac{24}{1265}\sqrt{191}e^{24}, \frac{144}{1265}\sqrt{11}e^{14},$ $\frac{24}{1265}\sqrt{21}e^{26}, \frac{24}{1265}\sqrt{305}e^{28}$	$(\frac{12}{253}, -\frac{72}{1265}, \frac{336}{1265}, -\frac{12}{1265}, \frac{36}{115}, -\frac{84}{1265}, \frac{48}{1265}, -\frac{156}{1265}, -\frac{228}{1265})$ $-\frac{24}{1265}\sqrt{661}e^1 \otimes e_9 + \frac{48}{1265}\sqrt{119}e^3 \otimes e_7$	{12578, 134, 24679, 35689}
96421:6	$0, 0, 0, \frac{24}{1265}\sqrt{65}e^{12}, \frac{48}{1265}\sqrt{67}e^{13}, \frac{24}{1265}\sqrt{191}e^{24}, \frac{144}{1265}\sqrt{11}e^{14},$ $\frac{24}{1265}\sqrt{21}e^{26}, \frac{24}{1265}\sqrt{305}e^{28}$	$(\frac{12}{253}, -\frac{72}{1265}, \frac{336}{1265}, -\frac{12}{1265}, \frac{36}{115}, -\frac{84}{1265}, \frac{48}{1265}, -\frac{156}{1265}, -\frac{228}{1265})$ $+\frac{24}{1265}\sqrt{661}e^1 \otimes e_9 + \frac{48}{1265}\sqrt{119}e^3 \otimes e_7$	{12578, 134, 24679, 35689}
96421:6	$0, 0, 0, \frac{4}{3219}\sqrt{144647}e^{12}, \frac{4}{3219}\sqrt{394611}e^{13}, \frac{92}{1073}\sqrt{19}e^{24},$ $\frac{4}{111}\sqrt{437}e^{14}, \frac{4}{3219}\sqrt{135470}e^{26}, \frac{4}{3219}\sqrt{165623}e^{28}$	$(-\frac{22}{87}, \frac{448}{3219}, \frac{772}{1073}, -\frac{122}{1073}, \frac{1502}{3219}, \frac{82}{3219}, -\frac{1180}{3219}, \frac{530}{3219}, \frac{326}{1073})$ $+\frac{8}{3219}\sqrt{286235}e^3 \otimes e_7$	{123469, 156789, 2358, 47}
96421:6	$0, 0, 0, \frac{4}{13}\sqrt{5}e^{12}, \frac{2}{13}\sqrt{30}e^{13}, \frac{2}{13}\sqrt{5}e^{24}, \frac{2}{13}\sqrt{5}e^{14},$ $\frac{2}{13}\sqrt{10}e^{26}, \frac{2}{13}\sqrt{30}e^{28}$	$(\frac{1}{13}, -\frac{1}{13}, \frac{7}{13}, 0, \frac{8}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, -\frac{3}{13})$ $+\frac{2}{13}\sqrt{55}e^3 \otimes e_9$	{1245679, 15689, 23578, 345}
96421:6	$0, 0, 0, \frac{1}{184}\sqrt{26718}e^{12}, \frac{5}{92}\sqrt{146}e^{13}, \frac{3}{184}\sqrt{438}e^{24}, \frac{1}{184}\sqrt{24090}e^{14},$ $\frac{3}{184}\sqrt{730}e^{26}, \frac{3}{92}\sqrt{146}e^{28}$	$(\frac{15}{46}, -\frac{27}{368}, -\frac{43}{92}, \frac{93}{368}, -\frac{13}{92}, \frac{33}{184}, \frac{213}{368}, \frac{39}{368}, \frac{3}{92})$ $+\frac{1}{23}\sqrt{730}e^1 \otimes e_3$	{127, 148, 2346789, 369}
96421:6	$0, 0, 0, \frac{10}{4397}\sqrt{571}e^{12}, \frac{20}{4397}\sqrt{473}e^{13}, \frac{20}{4397}\sqrt{165}e^{24}, \frac{20}{4397}\sqrt{177}e^{14},$ $\frac{10}{4397}\sqrt{1093}e^{26}, \frac{20}{4397}\sqrt{359}e^{28}$	$(-\frac{185}{4397}, \frac{90}{4397}, \frac{225}{4397}, -\frac{95}{4397}, \frac{40}{4397}, -\frac{5}{4397}, -\frac{280}{4397}, \frac{85}{4397}, \frac{175}{4397})$ $+\frac{10}{4397}\sqrt{1689}e^3 \otimes e_9 + \frac{20}{4397}\sqrt{570}e^2 \otimes e_5$	{123478, 2679}
96421:6	$0, 0, 0, \frac{6}{539}\sqrt{77}e^{12}, \frac{6}{539}\sqrt{1351}e^{13}, \frac{36}{539}\sqrt{21}e^{24}, \frac{6}{539}\sqrt{203}e^{14},$ $\frac{18}{539}\sqrt{105}e^{26}, \frac{18}{539}\sqrt{77}e^{28}$	$(-\frac{12}{77}, \frac{9}{77}, \frac{3}{77}, -\frac{3}{77}, -\frac{9}{77}, \frac{6}{77}, -\frac{15}{77}, \frac{15}{77}, \frac{24}{77})$ $+\frac{30}{539}\sqrt{91}e^2 \otimes e_5 + \frac{6}{539}\sqrt{1015}e^3 \otimes e_7$	{2679, 345689}
96421:6	$0, 0, 0, \frac{34}{1705}\sqrt{258}e^{12}, \frac{34}{1705}\sqrt{358}e^{13}, \frac{102}{1705}\sqrt{41}e^{24}, \frac{34}{1705}\sqrt{30}e^{14},$ $\frac{68}{1705}\sqrt{87}e^{26}, \frac{102}{341}e^{28}$	$(\frac{51}{1705}, \frac{102}{1705}, -\frac{17}{55}, \frac{153}{1705}, -\frac{476}{1705}, \frac{51}{341}, \frac{204}{1705}, \frac{357}{1705}, \frac{459}{1705})$ $+\frac{34}{1705}\sqrt{403}e^1 \otimes e_3 + \frac{68}{1705}\sqrt{267}e^2 \otimes e_5$	{1456789, 357}
96421:6	$0, 0, 0, \frac{4}{3379}\sqrt{13193}e^{12}, \frac{4}{3379}\sqrt{217601}e^{13}, \frac{76}{3379}\sqrt{501}e^{24},$ $\frac{4}{3379}\sqrt{101703}e^{14}, \frac{40}{3379}\sqrt{1837}e^{26}, \frac{4}{3379}\sqrt{123413}e^{28}$	$(-\frac{214}{3379}, \frac{378}{3379}, -\frac{24}{109}, \frac{164}{3379}, -\frac{958}{3379}, \frac{542}{3379}, -\frac{50}{3379}, \frac{920}{3379}, \frac{1298}{3379})$ $+\frac{8}{3379}\sqrt{117735}e^2 \otimes e_5$	{12369, 1456789, 248, 357}
96421:7	$0, 0, 0, \frac{7}{227}\sqrt{399}e^{12}, \frac{28}{227}\sqrt{3}e^{13}, \frac{42}{227}\sqrt{2}e^{14},$ $\frac{7}{227}\sqrt{339}e^{15} + \frac{42}{227}\sqrt{19}e^{23}, \frac{21}{227}\sqrt{33}e^{16}, \frac{14}{227}\sqrt{177}e^{18}$	$(-\frac{7}{227}, -\frac{14}{227}, \frac{105}{227}, -\frac{21}{227}, \frac{98}{227}, -\frac{28}{227}, \frac{91}{227}, -\frac{35}{227}, -\frac{42}{227})$ $+\frac{21}{227}\sqrt{129}e^3 \otimes e_9$	{1245679, 26789}
96421:8	$0, 0, 0, \frac{8}{869}\sqrt{357}e^{12}, \frac{80}{869}\sqrt{15}e^{13}, \frac{24}{869}\sqrt{19}e^{24},$ $\frac{80}{869}\sqrt{15}e^{15} + \frac{128}{869}\sqrt{6}e^{23}, \frac{8}{869}\sqrt{771}e^{26}, \frac{8}{869}\sqrt{1443}e^{28}$	$(-\frac{12}{869}, -\frac{24}{869}, \frac{152}{869}, -\frac{36}{869}, \frac{140}{869}, -\frac{60}{869}, \frac{128}{869}, -\frac{84}{869}, -\frac{108}{869})$ $-\frac{216}{869}\sqrt{3}e^1 \otimes e_9$	{123478, 12458, 235679, 269}
96421:8	$0, 0, 0, \frac{8}{869}\sqrt{357}e^{12}, \frac{80}{869}\sqrt{15}e^{13}, \frac{24}{869}\sqrt{19}e^{24},$ $\frac{80}{869}\sqrt{15}e^{15} + \frac{128}{869}\sqrt{6}e^{23}, \frac{8}{869}\sqrt{771}e^{26}, \frac{8}{869}\sqrt{1443}e^{28}$	$(-\frac{12}{869}, -\frac{24}{869}, \frac{152}{869}, -\frac{36}{869}, \frac{140}{869}, -\frac{60}{869}, \frac{128}{869}, -\frac{84}{869}, -\frac{108}{869})$ $+\frac{216}{869}\sqrt{3}e^1 \otimes e_9$	{123478, 12458, 235679, 269}
96421:8	$0, 0, 0, \frac{19}{1597}\sqrt{3570}e^{12}, \frac{38}{1597}\sqrt{1002}e^{13}, \frac{285}{1597}\sqrt{6}e^{24},$ $\frac{19}{1597}\sqrt{1326}e^{15} + \frac{38}{1597}\sqrt{282}e^{23}, \frac{19}{1597}\sqrt{1326}e^{26}, \frac{19}{1597}\sqrt{4458}e^{28}$	$(-\frac{38}{1597}, -\frac{76}{1597}, \frac{741}{1597}, -\frac{114}{1597}, \frac{703}{1597}, -\frac{190}{1597}, \frac{665}{1597}, -\frac{266}{1597}, -\frac{342}{1597})$ $+\frac{57}{1597}\sqrt{894}e^3 \otimes e_9$	{15689, 3457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96421:9	$0, 0, 0, \frac{37}{1657} \sqrt{1186e^{12}}, \frac{37}{1657} \sqrt{435e^{13}}, \frac{37}{1657} \sqrt{487e^{14}}, \frac{444}{1657} \sqrt{6e^{35}},$ $\frac{296}{1657} e^{16}, \frac{37}{1657} \sqrt{467e^{18}} + \frac{703}{1657} \sqrt{2e^{23}}$	$(-\frac{74}{1657}, \frac{703}{1657}, -\frac{296}{1657}, \frac{629}{1657}, -\frac{370}{1657}, \frac{555}{1657}, -\frac{666}{1657}, \frac{481}{1657}, \frac{407}{1657})$ $+ \frac{37}{1657} \sqrt{2755e^2} \otimes e_7$	{12689, 578}
96421:10	$0, 0, 0, -\frac{90}{937} \sqrt{26e^{12}}, \frac{18}{937} \sqrt{1270e^{13}}, \frac{36}{937} \sqrt{163e^{14}},$ $\frac{18}{937} \sqrt{14e^{24}} + \frac{18}{937} \sqrt{1254e^{35}}, \frac{36}{937} \sqrt{5e^{16}}, \frac{108}{937} \sqrt{35e^{18}}$	$(-\frac{162}{937}, \frac{306}{937}, \frac{306}{937}, \frac{144}{937}, \frac{144}{937}, -\frac{18}{937}, \frac{450}{937}, -\frac{180}{937}, -\frac{342}{937})$ $+ \frac{36}{937} \sqrt{797e^3} \otimes e_9$	{1234678, 1579, 2356, 489, 1234678, 1579, 2356, 489}
96421:10	$0, 0, 0, \frac{90}{937} \sqrt{26e^{12}}, \frac{18}{937} \sqrt{1270e^{13}}, \frac{36}{937} \sqrt{163e^{14}},$ $\frac{18}{937} \sqrt{14e^{24}} + \frac{18}{937} \sqrt{1254e^{35}}, \frac{36}{937} \sqrt{5e^{16}}, \frac{108}{937} \sqrt{35e^{18}}$	$(-\frac{162}{937}, \frac{306}{937}, \frac{306}{937}, \frac{144}{937}, \frac{144}{937}, -\frac{18}{937}, \frac{450}{937}, -\frac{180}{937}, -\frac{342}{937})$ $+ \frac{36}{937} \sqrt{797e^3} \otimes e_9$	{1234678, 1579, 2356, 489, 1234678, 1579, 2356, 489}
96421:12	$0, 0, 0, \frac{50}{3977} \sqrt{1326e^{12}}, \frac{50}{3977} \sqrt{2122e^{13}}, \frac{50}{3977} \sqrt{55e^{24}},$ $\frac{50}{3977} \sqrt{1063e^{14}} + \frac{200}{3977} \sqrt{105e^{35}}, \frac{100}{3977} \sqrt{157e^{26}}, \frac{50}{3977} \sqrt{1786e^{28}}$	$(\frac{825}{3977}, -\frac{475}{3977}, \frac{175}{3977}, \frac{350}{3977}, \frac{1000}{3977}, -\frac{125}{3977}, \frac{1175}{3977}, -\frac{600}{3977}, -\frac{1075}{3977})$ $+ \frac{50}{3977} \sqrt{3419e^3} \otimes e_9$	{1245679, 345}
96421:14	$0, 0, 0, \frac{16}{127} \sqrt{39e^{12}}, \frac{8}{127} \sqrt{51e^{13}}, \frac{40}{127} e^{14}, \frac{24}{127} \sqrt{22e^{15}},$ $\frac{8}{127} \sqrt{110e^{16}}, \frac{24}{127} \sqrt{11e^{18}} + \frac{16}{127} \sqrt{2e^{35}}$	$(-\frac{24}{127}, \frac{88}{127}, \frac{8}{127}, \frac{64}{127}, -\frac{16}{127}, \frac{40}{127}, -\frac{40}{127}, \frac{16}{127}, -\frac{8}{127})$ $+ \frac{8}{127} \sqrt{433e^2} \otimes e_7$	{125, 35679}
96421:15	$0, 0, 0, -\frac{104}{445} e^{12}, \frac{78}{445} \sqrt{2e^{13}}, \frac{104}{445} \sqrt{3e^{24}}, \frac{39}{445} \sqrt{42e^{15}},$ $\frac{13}{445} \sqrt{318e^{26}}, \frac{13}{445} \sqrt{314e^{28}} + \frac{78}{445} \sqrt{5e^{35}}$	$(-\frac{117}{445}, \frac{13}{89}, \frac{26}{89}, -\frac{52}{445}, \frac{13}{445}, \frac{13}{445}, -\frac{104}{445}, \frac{78}{445}, \frac{143}{445})$ $+ \frac{39}{445} \sqrt{82e^2} \otimes e_7$	{12458, 137, 269, 3456789, 12458, 137, 269, 3456789}
96421:15	$0, 0, 0, \frac{104}{445} e^{12}, \frac{78}{445} \sqrt{2e^{13}}, \frac{104}{445} \sqrt{3e^{24}}, \frac{39}{445} \sqrt{42e^{15}},$ $\frac{13}{445} \sqrt{318e^{26}}, \frac{13}{445} \sqrt{314e^{28}} + \frac{78}{445} \sqrt{5e^{35}}$	$(-\frac{117}{445}, \frac{13}{89}, \frac{26}{89}, -\frac{52}{445}, \frac{13}{445}, \frac{13}{445}, -\frac{104}{445}, \frac{78}{445}, \frac{143}{445})$ $+ \frac{39}{445} \sqrt{82e^2} \otimes e_7$	{12458, 137, 269, 3456789, 12458, 137, 269, 3456789}
96421:16	$0, 0, 0, \frac{24}{1109} \sqrt{299e^{12}}, \frac{12}{1109} \sqrt{170e^{13}}, \frac{12}{1109} \sqrt{1114e^{24}},$ $\frac{24}{1109} \sqrt{466e^{35}}, \frac{72}{1109} \sqrt{30e^{26}}, \frac{408}{1109} e^{15} + \frac{12}{1109} \sqrt{1094e^{28}}$	$(\frac{204}{1109}, -\frac{12}{1109}, -\frac{252}{1109}, \frac{192}{1109}, -\frac{48}{1109}, \frac{180}{1109}, -\frac{300}{1109}, \frac{168}{1109}, \frac{156}{1109})$ $+ \frac{300}{1109} \sqrt{6e^2} \otimes e_7$	{123569, 57}
96421:17	$0, 0, 0, \frac{1}{44} \sqrt{870e^{12}}, \frac{3}{22} \sqrt{30e^{13}}, \frac{1}{44} \sqrt{330e^{24}},$ $\frac{1}{44} \sqrt{330e^{14}} + \frac{5}{22} \sqrt{6e^{23}}, \frac{1}{44} \sqrt{210e^{26}}, \frac{3}{22} \sqrt{30e^{28}}$	$(\frac{2}{11}, -\frac{1}{8}, \frac{4}{11}, \frac{5}{88}, \frac{6}{11}, -\frac{3}{44}, \frac{21}{88}, -\frac{17}{88}, -\frac{7}{22})$ $+ \frac{1}{22} \sqrt{570e^3} \otimes e_9$	{1245679, 15689}
96421:17	$0, 0, 0, \frac{48}{2951} \sqrt{79e^{12}}, \frac{48}{2951} \sqrt{1177e^{13}}, \frac{240}{2951} \sqrt{39e^{24}},$ $\frac{48}{2951} \sqrt{501e^{14}} + \frac{48}{2951} \sqrt{158e^{23}}, \frac{48}{2951} \sqrt{1010e^{26}}, \frac{48}{2951} \sqrt{685e^{28}}$	$(-\frac{264}{2951}, \frac{360}{2951}, -\frac{528}{2951}, \frac{96}{2951}, -\frac{792}{2951}, \frac{456}{2951}, -\frac{168}{2951}, \frac{816}{2951}, \frac{1176}{2951})$ $+ \frac{96}{2951} \sqrt{615e^2} \otimes e_5$	{1456789, 248}
96421:17	$0, 0, 0, \frac{3}{22} \sqrt{34e^{12}}, \frac{3}{22} \sqrt{46e^{13}}, \frac{9}{22} \sqrt{2e^{24}},$ $\frac{9}{22} \sqrt{2e^{14}} + \frac{3}{22} \sqrt{17e^{23}}, \frac{3}{22} \sqrt{5e^{26}}, \frac{3}{22} \sqrt{19e^{28}}$	$(\frac{3}{22}, -\frac{9}{88}, \frac{3}{11}, \frac{3}{88}, \frac{9}{22}, -\frac{3}{44}, \frac{15}{88}, -\frac{15}{88}, -\frac{3}{11})$ $- \frac{15}{44} \sqrt{6e^1} \otimes e_9$	{12378, 134, 2345679, 35689}
96421:17	$0, 0, 0, \frac{3}{22} \sqrt{34e^{12}}, \frac{3}{22} \sqrt{46e^{13}}, \frac{9}{22} \sqrt{2e^{24}},$ $\frac{9}{22} \sqrt{2e^{14}} + \frac{3}{22} \sqrt{17e^{23}}, \frac{3}{22} \sqrt{5e^{26}}, \frac{3}{22} \sqrt{19e^{28}}$	$(\frac{3}{22}, -\frac{9}{88}, \frac{3}{11}, \frac{3}{88}, \frac{9}{22}, -\frac{3}{44}, \frac{15}{88}, -\frac{15}{88}, -\frac{3}{11})$ $+ \frac{15}{44} \sqrt{6e^1} \otimes e_9$	{12378, 134, 2345679, 35689}
96421:19	$0, 0, 0, \frac{44}{2259} \sqrt{91e^{12}}, \frac{88}{2259} \sqrt{17e^{13}}, \frac{44}{2259} \sqrt{89e^{14}},$ $\frac{44}{2259} \sqrt{982e^{15}} + \frac{44}{2259} \sqrt{1110e^{24}}, \frac{44}{2259} \sqrt{355e^{16}}, \frac{44}{2259} \sqrt{1041e^{18}}$	$(-\frac{242}{2259}, \frac{110}{753}, \frac{902}{2259}, \frac{88}{2259}, \frac{220}{753}, -\frac{154}{2259}, \frac{418}{2259}, -\frac{44}{251}, -\frac{638}{2259})$ $+ \frac{44}{2259} \sqrt{1969e^2} \otimes e_9$	{123578, 1345679, 245, 5689}
96421:19	$0, 0, 0, \frac{44}{2259} \sqrt{91e^{12}}, \frac{88}{2259} \sqrt{17e^{13}}, \frac{44}{2259} \sqrt{89e^{14}},$ $\frac{44}{2259} \sqrt{982e^{15}} + \frac{44}{2259} \sqrt{1110e^{24}}, \frac{44}{2259} \sqrt{355e^{16}}, \frac{44}{2259} \sqrt{1041e^{18}}$	$(-\frac{242}{2259}, \frac{110}{753}, \frac{902}{2259}, \frac{88}{2259}, \frac{220}{753}, -\frac{154}{2259}, \frac{418}{2259}, -\frac{44}{251}, -\frac{638}{2259})$ $- \frac{44}{2259} \sqrt{1969e^2} \otimes e_9$	{123578, 1345679, 245, 5689}
96421:19	$0, 0, 0, \frac{44}{2307} \sqrt{659e^{12}}, \frac{44}{2307} \sqrt{993e^{13}}, \frac{88}{2307} \sqrt{258e^{14}},$ $\frac{44}{2307} \sqrt{281e^{15}} + \frac{44}{2307} \sqrt{145e^{24}}, \frac{44}{2307} \sqrt{974e^{16}}, \frac{44}{2307} \sqrt{70e^{18}}$	$(\frac{286}{2307}, -\frac{66}{769}, -\frac{682}{2307}, \frac{88}{2307}, -\frac{132}{769}, \frac{374}{2307}, -\frac{110}{2307}, \frac{220}{769}, \frac{946}{2307})$ $- \frac{44}{2307} \sqrt{1991e^1} \otimes e_3$	{1269, 148, 2346789, 37}
96421:19	$0, 0, 0, \frac{44}{2307} \sqrt{659e^{12}}, \frac{44}{2307} \sqrt{993e^{13}}, \frac{88}{2307} \sqrt{258e^{14}},$ $\frac{44}{2307} \sqrt{281e^{15}} + \frac{44}{2307} \sqrt{145e^{24}}, \frac{44}{2307} \sqrt{974e^{16}}, \frac{44}{2307} \sqrt{70e^{18}}$	$(\frac{286}{2307}, -\frac{66}{769}, -\frac{682}{2307}, \frac{88}{2307}, -\frac{132}{769}, \frac{374}{2307}, -\frac{110}{2307}, \frac{220}{769}, \frac{946}{2307})$ $+ \frac{44}{2307} \sqrt{1991e^1} \otimes e_3$	{1269, 148, 2346789, 37}
96421:19	$0, 0, 0, \frac{11}{371} \sqrt{435e^{12}}, \frac{22}{371} \sqrt{210e^{13}}, \frac{66}{371} \sqrt{15e^{14}},$ $\frac{11}{371} \sqrt{129e^{15}} + \frac{66}{371} \sqrt{7e^{24}}, \frac{33}{371} \sqrt{7e^{16}}, \frac{22}{371} \sqrt{186e^{18}}$	$(-\frac{55}{371}, \frac{88}{371}, \frac{33}{53}, \frac{33}{371}, \frac{176}{371}, -\frac{22}{371}, \frac{121}{371}, -\frac{11}{53}, -\frac{132}{371})$ $+ \frac{33}{371} \sqrt{209e^3} \otimes e_9$	{159, 23567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96421:22	$0, 0, 0, \frac{168}{3629}\sqrt{10}e^{12}, \frac{336}{3629}\sqrt{51}e^{13}, \frac{112}{3629}\sqrt{178}e^{14},$ $\frac{56}{3629}\sqrt{1447}e^{24}, \frac{56}{3629}\sqrt{419}e^{16}, \frac{56}{3629}\sqrt{658}e^{18} + \frac{56}{3629}\sqrt{1429}e^{35}$	$(\frac{28}{191}, -\frac{868}{3629}, \frac{364}{3629}, -\frac{336}{3629}, \frac{896}{3629}, \frac{196}{3629}, -\frac{1204}{3629}, \frac{728}{3629}, \frac{1260}{3629})$ $+ \frac{112}{3629}\sqrt{785}e^3 \otimes e_7$	{1234689, 478}
96421:24	$0, 0, 0, \frac{112}{1327}\sqrt{17}e^{12}, \frac{56}{1327}\sqrt{186}e^{13}, \frac{112}{3981}\sqrt{285}e^{14},$ $\frac{56}{3981}\sqrt{1327}e^{35}, \frac{56}{1327}\sqrt{19}e^{16}, \frac{392}{1327}\sqrt{2}e^{18} + \frac{56}{1327}\sqrt{157}e^{24}$	$(-\frac{28}{1327}, -\frac{84}{1327}, \frac{980}{3981}, -\frac{112}{1327}, \frac{896}{3981}, -\frac{140}{1327}, \frac{1876}{3981}, -\frac{168}{1327}, -\frac{196}{1327})$ $+ \frac{112}{3981}\sqrt{858}e^3 \otimes e_9$	{1234678, 489}
96421:24	$0, 0, 0, \frac{64}{1011}\sqrt{111}e^{12}, \frac{64}{1011}\sqrt{6}e^{13}, \frac{32}{337}\sqrt{2}e^{14}, \frac{32}{1011}\sqrt{337}e^{35},$ $\frac{32}{1011}\sqrt{105}e^{16}, \frac{128}{1011}\sqrt{15}e^{18} + \frac{32}{337}\sqrt{47}e^{24}$	$(\frac{16}{337}, \frac{48}{337}, -\frac{208}{1011}, \frac{64}{337}, -\frac{160}{1011}, \frac{80}{337}, -\frac{368}{1011}, \frac{96}{337}, \frac{112}{337})$ $- \frac{32}{1011}\sqrt{858}e^2 \otimes e_7$	{1346789, 1456789, 23458, 248}
96421:24	$0, 0, 0, \frac{64}{1011}\sqrt{111}e^{12}, \frac{64}{1011}\sqrt{6}e^{13}, \frac{32}{337}\sqrt{2}e^{14}, \frac{32}{1011}\sqrt{337}e^{35},$ $\frac{32}{1011}\sqrt{105}e^{16}, \frac{128}{1011}\sqrt{15}e^{18} + \frac{32}{337}\sqrt{47}e^{24}$	$(\frac{16}{337}, \frac{48}{337}, -\frac{208}{1011}, \frac{64}{337}, -\frac{160}{1011}, \frac{80}{337}, -\frac{368}{1011}, \frac{96}{337}, \frac{112}{337})$ $+ \frac{32}{1011}\sqrt{858}e^2 \otimes e_7$	{1346789, 1456789, 23458, 248}
96421:25	$0, 0, 0, \frac{20}{1401}\sqrt{1122}e^{12}, \frac{80}{1401}\sqrt{102}e^{13}, \frac{20}{467}\sqrt{58}e^{24}, \frac{20}{1401}\sqrt{1401}e^{35},$ $\frac{20}{1401}\sqrt{597}e^{26}, \frac{20}{1401}\sqrt{429}e^{14} + \frac{20}{1401}\sqrt{1806}e^{28}$	$(-\frac{30}{467}, -\frac{10}{467}, \frac{130}{467}, -\frac{40}{467}, \frac{100}{467}, -\frac{50}{467}, \frac{230}{467}, -\frac{60}{467}, -\frac{70}{467})$ $+ \frac{20}{1401}\sqrt{3534}e^3 \otimes e_9$	{156789, 2358}
96421:25	$0, 0, 0, \frac{56}{1101}\sqrt{39}e^{12}, \frac{28}{367}\sqrt{7}e^{13}, \frac{28}{367}\sqrt{37}e^{24}, \frac{28}{1101}\sqrt{367}e^{35},$ $\frac{28}{367}\sqrt{35}e^{26}, \frac{28}{367}\sqrt{17}e^{14} + \frac{28}{1101}\sqrt{255}e^{28}$	$(\frac{42}{367}, \frac{14}{367}, -\frac{238}{1101}, \frac{56}{367}, -\frac{112}{1101}, \frac{70}{367}, -\frac{350}{1101}, \frac{84}{367}, \frac{98}{367})$ $+ \frac{28}{367}\sqrt{101}e^2 \otimes e_7$	{1346789, 1456789, 23458, 248}
96421:25	$0, 0, 0, \frac{56}{1101}\sqrt{39}e^{12}, \frac{28}{367}\sqrt{7}e^{13}, \frac{28}{367}\sqrt{37}e^{24}, \frac{28}{1101}\sqrt{367}e^{35},$ $\frac{28}{367}\sqrt{35}e^{26}, \frac{28}{367}\sqrt{17}e^{14} + \frac{28}{1101}\sqrt{255}e^{28}$	$(\frac{42}{367}, \frac{14}{367}, -\frac{238}{1101}, \frac{56}{367}, -\frac{112}{1101}, \frac{70}{367}, -\frac{350}{1101}, \frac{84}{367}, \frac{98}{367})$ $- \frac{28}{367}\sqrt{101}e^2 \otimes e_7$	{1346789, 1456789, 23458, 248}
96421:32	$0, 0, 0, \frac{28}{207}\sqrt{21}e^{12}, \frac{112}{621}\sqrt{15}e^{13}, \frac{28}{621}\sqrt{102}e^{14}, \frac{14}{207}\sqrt{946}e^{24},$ $\frac{14}{621}\sqrt{458}e^{16}, \frac{28}{621}\sqrt{85}e^{18} + \frac{14}{207}\sqrt{6}e^{23}$	$(-\frac{14}{207}, \frac{182}{621}, -\frac{56}{207}, \frac{140}{621}, -\frac{70}{207}, \frac{98}{621}, \frac{14}{27}, \frac{56}{621}, \frac{14}{621})$ $+ \frac{14}{207}\sqrt{238}e^2 \otimes e_5$	{1237, 3569}
96421:32	$0, 0, 0, \frac{28}{183}\sqrt{7}e^{12}, \frac{7}{183}\sqrt{470}e^{13}, \frac{7}{183}\sqrt{226}e^{14}, \frac{140}{183}e^{24},$ $\frac{7}{183}\sqrt{66}e^{16}, \frac{28}{183}\sqrt{2}e^{18} + \frac{14}{183}\sqrt{31}e^{23}$	$(\frac{7}{61}, -\frac{14}{61}, \frac{28}{61}, -\frac{7}{61}, \frac{35}{61}, 0, -\frac{21}{61}, \frac{7}{61}, \frac{14}{61})$ $+ \frac{7}{183}\sqrt{938}e^3 \otimes e_7$	{2679, 478}
96421:35	$0, 0, 0, \frac{78}{2813}\sqrt{237}e^{12}, \frac{78}{2813}\sqrt{746}e^{13}, \frac{312}{2813}\sqrt{14}e^{24},$ $\frac{156}{2813}\sqrt{203}e^{14}, \frac{390}{2813}\sqrt{10}e^{26}, \frac{78}{2813}\sqrt{145}e^{15} + \frac{78}{2813}\sqrt{373}e^{28}$	$(-\frac{663}{2813}, \frac{351}{2813}, \frac{2067}{2813}, -\frac{312}{2813}, \frac{1404}{2813}, \frac{39}{2813}, -\frac{975}{2813}, \frac{390}{2813}, \frac{741}{2813})$ $+ \frac{78}{2813}\sqrt{23}e^3 \otimes e_7$	{156789, 2358}
96421:36	$0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{4}{123}\sqrt{278}e^{13}, \frac{8}{123}\sqrt{70}e^{14}, \frac{4}{123}\sqrt{131}e^{15},$ $\frac{4}{123}\sqrt{251}e^{16}, \frac{4}{123}\sqrt{206}e^{18} + \frac{4}{123}\sqrt{145}e^{24}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, -\frac{20}{123}, \frac{8}{41}, \frac{28}{123})$ $+ \frac{28}{41}e^1 \otimes e_3$	{148, 2346789}
96421:36	$0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{4}{123}\sqrt{163}e^{13}, \frac{4}{123}\sqrt{161}e^{14}, \frac{4}{123}\sqrt{310}e^{15},$ $\frac{4}{123}\sqrt{190}e^{16}, \frac{4}{123}\sqrt{235}e^{18} + \frac{8}{123}\sqrt{74}e^{24}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, -\frac{20}{123}, \frac{8}{41}, \frac{28}{123})$ $+ \frac{28}{41}e^2 \otimes e_7$	{1346789, 248}
96421:36	$0, 0, 0, \frac{10}{201}\sqrt{110}e^{12}, \frac{5}{201}\sqrt{1110}e^{13}, \frac{5}{201}\sqrt{830}e^{14}, \frac{5}{201}\sqrt{530}e^{15},$ $\frac{5}{201}\sqrt{310}e^{16}, \frac{10}{201}\sqrt{65}e^{18} + \frac{10}{201}\sqrt{215}e^{24}$	$(-\frac{5}{201}, -\frac{5}{67}, \frac{30}{67}, -\frac{20}{201}, \frac{85}{201}, -\frac{25}{201}, \frac{80}{201}, -\frac{10}{67}, -\frac{35}{201})$ $+ \frac{10}{201}\sqrt{435}e^3 \otimes e_9$	{1234678, 489}
96421:37	$0, 0, 0, \frac{10}{301}\sqrt{43}e^{12}, \frac{15}{301}\sqrt{22}e^{13}, \frac{5}{301}\sqrt{210}e^{24}, \frac{5}{301}\sqrt{366}e^{15},$ $\frac{5}{301}\sqrt{258}e^{26}, \frac{90}{301}e^{14} + \frac{10}{301}\sqrt{74}e^{28}$	$(\frac{15}{301}, \frac{5}{301}, -\frac{50}{301}, \frac{20}{301}, -\frac{5}{301}, \frac{25}{301}, -\frac{20}{301}, \frac{30}{301}, \frac{5}{43})$ $+ \frac{30}{301}\sqrt{14}e^2 \otimes e_7$	{137, 269}
96421:37	$0, 0, 0, \frac{22}{229}\sqrt{89}e^{12}, \frac{11}{229}\sqrt{218}e^{13}, \frac{11}{229}\sqrt{30}e^{24}, \frac{22}{229}\sqrt{19}e^{15},$ $\frac{66}{229}\sqrt{3}e^{26}, \frac{11}{229}\sqrt{330}e^{14} + \frac{44}{229}\sqrt{13}e^{28}$	$(\frac{33}{229}, \frac{11}{229}, -\frac{88}{229}, \frac{44}{229}, -\frac{55}{229}, \frac{55}{229}, -\frac{22}{229}, \frac{66}{229}, \frac{77}{229})$ $+ \frac{11}{229}\sqrt{426}e^1 \otimes e_3$	{148, 2346789}
96421:37	$0, 0, 0, \frac{14}{563}\sqrt{910}e^{12}, \frac{28}{563}\sqrt{269}e^{13}, \frac{42}{563}\sqrt{26}e^{24}, \frac{14}{563}\sqrt{454}e^{15},$ $\frac{168}{563}\sqrt{3}e^{26}, \frac{14}{563}\sqrt{66}e^{14} + \frac{14}{563}\sqrt{1154}e^{28}$	$(-\frac{42}{563}, -\frac{14}{563}, \frac{294}{563}, -\frac{56}{563}, \frac{252}{563}, -\frac{70}{563}, \frac{210}{563}, -\frac{84}{563}, -\frac{98}{563})$ $+ \frac{14}{563}\sqrt{1866}e^3 \otimes e_9$	{124569, 3457}
96421:48	$0, 0, 0, \frac{69}{6853}\sqrt{3970}e^{12}, \frac{69}{6853}\sqrt{5702}e^{13}, \frac{69}{6853}\sqrt{2894}e^{14},$ $\frac{138}{6853}\sqrt{410}e^{24}, \frac{69}{979}\sqrt{2}e^{16}, \frac{69}{6853}\sqrt{374}e^{18} + \frac{69}{6853}\sqrt{530}e^{27}$	$(-\frac{138}{6853}, -\frac{207}{6853}, \frac{4002}{6853}, -\frac{345}{6853}, \frac{552}{979}, -\frac{69}{979}, -\frac{552}{6853}, -\frac{621}{6853}, -\frac{69}{623})$ $+ \frac{276}{6853}\sqrt{730}e^3 \otimes e_9$	{124569, 138}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96421:48	$0, 0, 0, \frac{49}{6893} \sqrt{2830}e^{12}, \frac{49}{6893} \sqrt{6294}e^{13}, \frac{49}{6893} \sqrt{2174}e^{14},$ $\frac{98}{6893} \sqrt{1330}e^{24}, \frac{49}{6893} \sqrt{2446}e^{16}, \frac{49}{6893} \sqrt{3306}e^{18} + \frac{49}{6893} \sqrt{4754}e^{27}$	$(\frac{294}{6893}, \frac{441}{6893}, -\frac{2254}{6893}, \frac{735}{6893}, -\frac{1960}{6893}, \frac{1029}{6893}, \frac{1176}{6893}, \frac{1323}{6893}, \frac{1617}{6893})$ $+ \frac{980}{6893} \sqrt{30}e^2 \otimes e_5$	{1237, 1456789}
96421:48	$0, 0, 0, \frac{17}{2241} \sqrt{4110}e^{12}, \frac{34}{2241} \sqrt{1401}e^{13}, \frac{34}{2241} \sqrt{1374}e^{14},$ $\frac{17}{2241} \sqrt{1290}e^{24}, \frac{34}{2241} \sqrt{1245}e^{16}, \frac{34}{747} \sqrt{107}e^{18} + \frac{136}{2241} \sqrt{33}e^{27}$	$(\frac{34}{747}, \frac{17}{249}, -\frac{85}{249}, \frac{85}{747}, -\frac{221}{747}, \frac{119}{747}, \frac{136}{747}, \frac{17}{83}, \frac{187}{747})$ $+ \frac{34}{2241} \sqrt{2955}e^1 \otimes e_3$	{2346789, 37}
96421:49	$0, 0, 0, \frac{46}{3589} \sqrt{190}e^{12}, \frac{46}{3589} \sqrt{1641}e^{13}, \frac{46}{3589} \sqrt{1102}e^{24},$ $\frac{46}{3589} \sqrt{743}e^{14}, \frac{46}{3589} \sqrt{1133}e^{26}, \frac{46}{3589} \sqrt{781}e^{17} + \frac{138}{3589} \sqrt{114}e^{28}$	$(\frac{207}{3589}, \frac{138}{3589}, \frac{1127}{3589}, \frac{345}{3589}, \frac{920}{3589}, \frac{483}{3589}, \frac{552}{3589}, \frac{621}{3589}, \frac{759}{3589})$ $+ \frac{230}{3589} \sqrt{123}e^2 \otimes e_5$	{1456789, 357}
96421:49	$0, 0, 0, \frac{42}{361} \sqrt{30}e^{12}, \frac{6}{361} \sqrt{1326}e^{13}, \frac{6}{361} \sqrt{159}e^{24}, \frac{6}{361} \sqrt{1578}e^{14},$ $\frac{12}{361} \sqrt{93}e^{26}, \frac{12}{361} \sqrt{321}e^{17} + \frac{18}{361} \sqrt{83}e^{28}$	$(\frac{27}{361}, \frac{18}{361}, -\frac{135}{361}, \frac{45}{361}, -\frac{108}{361}, \frac{63}{361}, \frac{72}{361}, \frac{81}{361}, \frac{99}{361})$ $+ \frac{6}{361} \sqrt{2895}e^1 \otimes e_3$	{127, 2346789}
96421:49	$0, 0, 0, \frac{14}{697} \sqrt{1155}e^{12}, \frac{28}{697} \sqrt{355}e^{13}, \frac{28}{697} \sqrt{55}e^{24}, \frac{28}{697} \sqrt{55}e^{14},$ $\frac{14}{697} \sqrt{565}e^{26}, \frac{140}{697} \sqrt{6}e^{17} + \frac{28}{697} \sqrt{355}e^{28}$	$(-\frac{21}{697}, -\frac{14}{697}, \frac{413}{697}, -\frac{35}{697}, \frac{392}{697}, -\frac{49}{697}, -\frac{56}{697}, -\frac{63}{697}, -\frac{77}{697})$ $+ \frac{14}{697} \sqrt{2945}e^3 \otimes e_9$	{15689, 345}
96421:111	$0, 0, 0, \frac{7}{369} \sqrt{870}e^{12}, \frac{70}{369} \sqrt{6}e^{13}, \frac{7}{369} \sqrt{610}e^{14}, \frac{7}{369} \sqrt{190}e^{35},$ $\frac{14}{369} \sqrt{330}e^{16}, \frac{14}{123} \sqrt{35}e^{18} + \frac{7}{369} \sqrt{430}e^{37}$	$(\frac{77}{369}, -\frac{56}{123}, \frac{7}{123}, \frac{91}{369}, \frac{98}{369}, -\frac{14}{369}, \frac{119}{369}, \frac{7}{41}, \frac{140}{369})$ $+ \frac{28}{369} \sqrt{195}e^1 \otimes e_2$	{13679, 235}
96421:161	$0, 0, 0, \frac{154}{7261} \sqrt{929}e^{12}, \frac{77}{7261} \sqrt{2234}e^{13}, \frac{77}{7261} \sqrt{1698}e^{24},$ $\frac{77}{7261} \sqrt{3602}e^{15}, \frac{77}{7261} \sqrt{474}e^{26}, \frac{308}{7261} \sqrt{330}e^{17} + \frac{1540}{7261} \sqrt{7}e^{28}$	$(\frac{2079}{7261}, \frac{77}{7261}, -\frac{3850}{7261}, \frac{2156}{7261}, -\frac{1771}{7261}, \frac{2233}{7261}, \frac{308}{7261}, \frac{2310}{7261}, \frac{2387}{7261})$ $+ \frac{154}{7261} \sqrt{3057}e^1 \otimes e_3$	{234, 38}
96421:161	$0, 0, 0, \frac{138}{2575} \sqrt{181}e^{12}, \frac{23}{2575} \sqrt{6342}e^{13}, \frac{69}{2575} \sqrt{154}e^{24},$ $\frac{23}{2575} \sqrt{3054}e^{15}, \frac{23}{2575} \sqrt{3054}e^{26}, \frac{322}{2575} \sqrt{15}e^{17} + \frac{414}{2575} \sqrt{21}e^{28}$	$(-\frac{529}{2575}, \frac{23}{515}, \frac{1518}{2575}, -\frac{414}{2575}, \frac{989}{2575}, -\frac{299}{2575}, \frac{92}{515}, -\frac{184}{2575}, -\frac{69}{2575})$ $+ \frac{46}{2575} \sqrt{3201}e^3 \otimes e_9$	{124569, 15689}
9642:1	$0, 0, 0, \frac{90}{893} \sqrt{5}e^{12}, \frac{9}{893} \sqrt{442}e^{13}, \frac{9}{893} \sqrt{422}e^{14}, \frac{9}{893} \sqrt{178}e^{24},$ $\frac{216}{893} e^{16}, \frac{18}{893} \sqrt{38}e^{27}$	$(-\frac{27}{893}, \frac{63}{893}, -\frac{108}{893}, \frac{36}{893}, -\frac{135}{893}, \frac{9}{893}, \frac{99}{893}, -\frac{18}{893}, \frac{162}{893})$ $+ \frac{252}{893} e^2 \otimes e_8 + \frac{9}{893} \sqrt{830}e^1 \otimes e_3$	{1267, 14789}
9642:1	$0, 0, 0, \frac{6}{77} e^{12}, \frac{6}{77} \sqrt{15}e^{13}, \frac{12}{77} \sqrt{3}e^{14}, \frac{6}{77} e^{24}, \frac{6}{77} \sqrt{21}e^{16},$ $\frac{6}{77} \sqrt{17}e^{27}$	$(\frac{3}{77}, -\frac{6}{77}, \frac{3}{11}, -\frac{3}{77}, \frac{24}{77}, 0, -\frac{9}{77}, \frac{3}{77}, -\frac{15}{77})$ $+ \frac{18}{77} \sqrt{3}e^3 \otimes e_8 + \frac{6}{77} \sqrt{41}e^1 \otimes e_9$	{124578, 2359}
9642:1	$0, 0, 0, \frac{4}{187} \sqrt{301}e^{12}, \frac{10}{187} \sqrt{129}e^{13}, \frac{2}{187} \sqrt{1763}e^{14}, \frac{4}{187} \sqrt{817}e^{24},$ $\frac{10}{187} \sqrt{43}e^{16}, \frac{2}{187} \sqrt{2279}e^{27}$	$(-\frac{9}{187}, \frac{30}{187}, -\frac{47}{187}, \frac{21}{187}, -\frac{56}{187}, \frac{12}{187}, \frac{3}{11}, \frac{3}{187}, \frac{81}{187})$ $+ \frac{2}{187} \sqrt{6837}e^2 \otimes e_5$	{1237, 1456789, 2489, 356}
9642:1	$0, 0, 0, \frac{6}{3421} \sqrt{122605}e^{12}, \frac{12}{3421} \sqrt{61535}e^{13}, \frac{6}{3421} \sqrt{71765}e^{14},$ $\frac{6}{3421} \sqrt{51305}e^{24}, \frac{6}{3421} \sqrt{13795}e^{16}, \frac{36}{3421} \sqrt{6045}e^{27}$	$(\frac{285}{3421}, -\frac{414}{3421}, \frac{1833}{3421}, -\frac{129}{3421}, \frac{2118}{3421}, \frac{156}{3421}, -\frac{543}{3421}, \frac{441}{3421}, -\frac{87}{311})$ $+ \frac{42}{3421} \sqrt{9145}e^3 \otimes e_9$	{1245689, 13, 23567, 4789}
9642:1	$0, 0, 0, \frac{206}{561} \sqrt{3}e^{12}, \frac{1}{561} \sqrt{121746}e^{13}, \frac{5}{561} \sqrt{6798}e^{14}, \frac{1}{561} \sqrt{41406}e^{24},$ $\frac{4}{561} \sqrt{7107}e^{16}, \frac{2}{561} \sqrt{6798}e^{27}$	$(\frac{31}{187}, -\frac{7}{187}, -\frac{72}{187}, \frac{24}{187}, -\frac{41}{187}, \frac{5}{17}, \frac{1}{11}, \frac{86}{187}, \frac{10}{187})$ $+ \frac{1}{561} \sqrt{300966}e^1 \otimes e_3$	{126, 1489, 2346789, 37}
9642:1	$0, 0, 0, \frac{6}{937} \sqrt{3074}e^{12}, \frac{3}{937} \sqrt{11310}e^{13}, \frac{42}{937} \sqrt{174}e^{14}, \frac{3}{937} \sqrt{4930}e^{24},$ $\frac{3}{937} \sqrt{28362}e^{16}, \frac{6}{937} \sqrt{8033}e^{27}$	$(\frac{195}{937}, -\frac{174}{937}, \frac{69}{937}, \frac{21}{937}, \frac{264}{937}, \frac{216}{937}, -\frac{153}{937}, \frac{411}{937}, -\frac{327}{937})$ $+ \frac{3}{937} \sqrt{89378}e^1 \otimes e_9$	{1348, 1458, 3579, 79}
9642:1	$0, 0, 0, \frac{3}{161} \sqrt{10}e^{12}, \frac{3}{161} \sqrt{230}e^{13}, \frac{6}{161} \sqrt{35}e^{14}, \frac{6}{161} \sqrt{95}e^{24},$ $\frac{6}{161} \sqrt{65}e^{16}, \frac{18}{161} \sqrt{15}e^{27}$	$(-\frac{15}{161}, \frac{9}{161}, \frac{57}{161}, -\frac{6}{161}, \frac{6}{23}, -\frac{3}{161}, \frac{3}{161}, -\frac{36}{161}, \frac{12}{161})$ $+ \frac{27}{161} \sqrt{10}e^2 \otimes e_8 + \frac{3}{161} \sqrt{610}e^3 \otimes e_9$	{124569, 138}
9642:1	$0, 0, 0, \frac{30}{737} \sqrt{115}e^{12}, \frac{138}{737} \sqrt{3}e^{13}, \frac{6}{737} \sqrt{437}e^{14}, \frac{36}{737} \sqrt{161}e^{24},$ $\frac{6}{737} \sqrt{5221}e^{16}, \frac{12}{737} \sqrt{1173}e^{27}$	$(-\frac{138}{737}, \frac{156}{737}, \frac{195}{737}, \frac{18}{737}, \frac{57}{737}, -\frac{120}{737}, \frac{174}{737}, -\frac{258}{737}, \frac{30}{67})$ $+ \frac{6}{737} \sqrt{14053}e^2 \otimes e_8$	{2349, 2459, 368, 568}
9642:1	$0, 0, 0, \frac{100}{411} \sqrt{3}e^{12}, \frac{10}{411} \sqrt{105}e^{13}, \frac{10}{411} \sqrt{93}e^{14}, \frac{20}{411} \sqrt{57}e^{24},$ $\frac{10}{411} \sqrt{69}e^{16}, \frac{10}{411} \sqrt{159}e^{27}$	$(\frac{5}{137}, \frac{10}{137}, -\frac{45}{137}, \frac{15}{137}, -\frac{40}{137}, \frac{20}{137}, \frac{25}{137}, \frac{25}{137}, \frac{35}{137})$ $+ \frac{10}{137} \sqrt{69}e^2 \otimes e_5 + \frac{20}{411} \sqrt{114}e^1 \otimes e_3$	{145789, 35}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9642:1	$0, 0, 0, \frac{38}{3489}\sqrt{3235e^{12}}, \frac{152}{3489}\sqrt{355e^{13}}, \frac{152}{3489}\sqrt{85e^{14}},$ $\frac{76}{3489}\sqrt{370e^{24}}, \frac{1900}{3489}\sqrt{2e^{16}}, \frac{38}{3489}\sqrt{2105e^{27}}$	$(-\frac{601}{3489}, \frac{182}{1163}, \frac{2353}{3489}, -\frac{55}{3489}, \frac{584}{1163}, -\frac{656}{3489}, \frac{491}{3489}, -\frac{419}{1163}, \frac{1037}{3489})$ $+\frac{494}{3489}\sqrt{85e^3} \otimes e_8$	{123469, 158, 2678, 34579}
9642:1	$0, 0, 0, \frac{6}{253}\sqrt{34e^{12}}, \frac{9}{253}\sqrt{30e^{13}}, \frac{6}{253}\sqrt{6e^{14}}, \frac{3}{253}\sqrt{190e^{24}},$ $\frac{3}{253}\sqrt{42e^{16}}, \frac{6}{253}\sqrt{73e^{27}}$	$(\frac{15}{253}, -\frac{6}{253}, -\frac{39}{253}, \frac{9}{253}, -\frac{24}{253}, \frac{24}{253}, \frac{3}{253}, \frac{39}{253}, -\frac{3}{253})$ $+\frac{12}{253}\sqrt{30e^2} \otimes e_5 + \frac{3}{253}\sqrt{418e^1} \otimes e_9$	{12367, 24689}
9642:1	$0, 0, 0, \frac{12}{277}\sqrt{5e^{12}}, \frac{3}{277}\sqrt{3e^{13}}, \frac{3}{277}\sqrt{78e^{14}}, \frac{3}{277}\sqrt{77e^{24}},$ $\frac{3}{277}\sqrt{159e^{16}}, \frac{3}{277}\sqrt{158e^{27}}$	$(-\frac{3}{277}, -\frac{3}{277}, \frac{33}{277}, -\frac{6}{277}, \frac{30}{277}, -\frac{9}{277}, -\frac{9}{277}, -\frac{12}{277}, -\frac{12}{277})$ $+\frac{21}{277}\sqrt{5e^1} \otimes e_9 + \frac{3}{277}\sqrt{246e^2} \otimes e_8$	{123567, 1267}
9642:2	$0, 0, 0, \frac{33}{1421}\sqrt{689e^{12}}, \frac{33}{1421}\sqrt{1165e^{13}}, \frac{33}{1421}\sqrt{67e^{24}}, \frac{33}{1421}\sqrt{271e^{14}},$ $\frac{429}{1421}\sqrt{6e^{26}}, \frac{33}{1421}\sqrt{182e^{17}} + \frac{33}{1421}\sqrt{489e^{23}}$	$(\frac{198}{1421}, -\frac{33}{203}, \frac{594}{1421}, -\frac{33}{1421}, \frac{792}{1421}, -\frac{264}{1421}, \frac{165}{1421}, -\frac{495}{1421}, \frac{363}{1421})$ $+\frac{33}{1421}\sqrt{2423e^3} \otimes e_8$	{1245789, 23567}
9642:2	$0, 0, 0, \frac{60}{193}e^{12}, \frac{6}{193}\sqrt{165e^{13}}, \frac{6}{193}\sqrt{67e^{24}}, \frac{36}{193}\sqrt{5e^{14}},$ $\frac{6}{193}\sqrt{310e^{26}}, \frac{6}{193}\sqrt{255e^{17}} + \frac{6}{193}\sqrt{258e^{23}}$	$(\frac{18}{193}, -\frac{24}{193}, \frac{54}{193}, -\frac{6}{193}, \frac{72}{193}, -\frac{30}{193}, \frac{12}{193}, -\frac{54}{193}, \frac{30}{193})$ $+\frac{6}{193}\sqrt{649e^1} \otimes e_8$	{12567, 2345789}
9642:2	$0, 0, 0, \frac{13}{373}\sqrt{114e^{12}}, \frac{39}{373}\sqrt{35e^{13}}, \frac{13}{373}\sqrt{323e^{24}}, \frac{39}{746}\sqrt{78e^{14}},$ $\frac{13}{746}\sqrt{906e^{26}}, \frac{39}{373}\sqrt{10e^{17}} + \frac{13}{746}\sqrt{190e^{23}}$	$(-\frac{26}{373}, \frac{65}{373}, -\frac{78}{373}, \frac{39}{373}, -\frac{104}{373}, \frac{104}{373}, \frac{13}{373}, \frac{169}{373}, -\frac{13}{373})$ $+\frac{39}{746}\sqrt{282e^2} \otimes e_5$	{1456789, 357}
9642:5	$0, 0, 0, \frac{144}{4651}\sqrt{190e^{12}}, \frac{864}{4651}\sqrt{3e^{13}}, \frac{576}{4651}\sqrt{2e^{14}}, \frac{216}{4651}\sqrt{177e^{24}},$ $\frac{72}{4651}\sqrt{1441e^{16}}, \frac{72}{4651}\sqrt{1362e^{27}} + \frac{72}{4651}\sqrt{195e^{35}}$	$(-\frac{864}{4651}, \frac{936}{4651}, \frac{1404}{4651}, \frac{72}{4651}, \frac{540}{4651}, -\frac{792}{4651}, \frac{1008}{4651}, -\frac{1656}{4651}, \frac{1944}{4651})$ $+\frac{72}{4651}\sqrt{3874e^2} \otimes e_8$	{368, 568}
9642:5	$0, 0, 0, \frac{82}{4553}\sqrt{617e^{12}}, \frac{164}{4553}\sqrt{355e^{13}}, \frac{164}{4553}\sqrt{85e^{14}},$ $\frac{82}{4553}\sqrt{370e^{24}}, \frac{2050}{4553}\sqrt{2e^{16}}, \frac{574}{4553}e^{27} + \frac{82}{4553}\sqrt{1534e^{35}}$	$(-\frac{943}{4553}, \frac{1066}{4553}, \frac{1599}{4553}, \frac{123}{4553}, \frac{656}{4553}, -\frac{820}{4553}, \frac{41}{157}, -\frac{1763}{4553}, \frac{2255}{4553})$ $+\frac{82}{4553}\sqrt{3783e^3} \otimes e_8$	{1589, 3457}
9642:6	$0, 0, 0, \frac{12}{191}\sqrt{38e^{12}}, \frac{24}{191}\sqrt{3e^{13}}, \frac{12}{191}\sqrt{66e^{24}}, \frac{12}{191}\sqrt{7e^{14}},$ $\frac{12}{191}\sqrt{51e^{26}}, \frac{12}{191}\sqrt{38e^{17}} + \frac{12}{191}\sqrt{51e^{35}}$	$(-\frac{24}{191}, \frac{36}{191}, -\frac{6}{191}, \frac{12}{191}, -\frac{30}{191}, \frac{48}{191}, -\frac{12}{191}, \frac{84}{191}, -\frac{36}{191})$ $+\frac{12}{191}\sqrt{158e^2} \otimes e_9$	{379, 579}
9642:6	$0, 0, 0, \frac{60}{883}\sqrt{34e^{12}}, \frac{12}{883}\sqrt{2270e^{13}}, \frac{24}{883}\sqrt{110e^{24}}, \frac{12}{883}\sqrt{695e^{14}},$ $\frac{36}{883}\sqrt{195e^{26}}, \frac{60}{883}\sqrt{34e^{17}} + \frac{36}{883}\sqrt{195e^{35}}$	$(\frac{150}{883}, -\frac{144}{883}, \frac{78}{883}, \frac{6}{883}, \frac{228}{883}, -\frac{138}{883}, \frac{156}{883}, -\frac{282}{883}, \frac{306}{883})$ $+\frac{12}{883}\sqrt{3790e^3} \otimes e_8$	{1245789, 23567}
9642:7	$0, 0, 0, \frac{8}{147}\sqrt{133e^{12}}, \frac{4}{147}\sqrt{19e^{13}}, \frac{4}{147}\sqrt{247e^{14}}, \frac{4}{147}\sqrt{247e^{24}},$ $\frac{4}{147}\sqrt{779e^{16}}, \frac{4}{147}\sqrt{57e^{15}} + \frac{4}{147}\sqrt{323e^{27}}$	$(-\frac{26}{147}, \frac{8}{49}, \frac{2}{3}, -\frac{2}{147}, \frac{24}{49}, -\frac{4}{21}, \frac{22}{147}, -\frac{18}{49}, \frac{46}{147})$ $-\frac{44}{147}\sqrt{19e^3} \otimes e_8$	{123469, 158, 2678, 34579}
9642:7	$0, 0, 0, \frac{8}{147}\sqrt{133e^{12}}, \frac{4}{147}\sqrt{19e^{13}}, \frac{4}{147}\sqrt{247e^{14}}, \frac{4}{147}\sqrt{247e^{24}},$ $\frac{4}{147}\sqrt{779e^{16}}, \frac{4}{147}\sqrt{57e^{15}} + \frac{4}{147}\sqrt{323e^{27}}$	$(-\frac{26}{147}, \frac{8}{49}, \frac{2}{3}, -\frac{2}{147}, \frac{24}{49}, -\frac{4}{21}, \frac{22}{147}, -\frac{18}{49}, \frac{46}{147})$ $+\frac{44}{147}\sqrt{19e^3} \otimes e_8$	{123469, 158, 2678, 34579}
9642:7	$0, 0, 0, \frac{18}{1129}\sqrt{745e^{12}}, \frac{9}{1129}\sqrt{2730e^{13}}, \frac{45}{1129}\sqrt{70e^{14}}, \frac{18}{1129}\sqrt{795e^{24}},$ $\frac{45}{1129}\sqrt{202e^{16}}, \frac{9}{1129}\sqrt{4110e^{15}} + \frac{54}{1129}\sqrt{115e^{27}}$	$(-\frac{135}{1129}, \frac{99}{1129}, \frac{432}{1129}, -\frac{36}{1129}, \frac{297}{1129}, -\frac{171}{1129}, \frac{63}{1129}, -\frac{306}{1129}, \frac{162}{1129})$ $+\frac{90}{1129}\sqrt{97e^2} \otimes e_8$	{1267, 1345789}
9642:7	$0, 0, 0, \frac{6}{149}\sqrt{258e^{12}}, \frac{39}{149}\sqrt{6e^{13}}, \frac{3}{149}\sqrt{1410e^{14}}, \frac{3}{149}\sqrt{354e^{24}},$ $\frac{6}{149}\sqrt{237e^{16}}, \frac{18}{149}\sqrt{5e^{15}} + \frac{6}{149}\sqrt{42e^{27}}$	$(\frac{27}{149}, -\frac{9}{149}, -\frac{54}{149}, \frac{18}{149}, -\frac{27}{149}, \frac{45}{149}, \frac{9}{149}, \frac{72}{149}, 0)$ $+\frac{3}{149}\sqrt{2334e^1} \otimes e_3$	{126, 2346789}
9642:49	$0, 0, 0, \frac{1}{73}\sqrt{3495e^{12}}, \frac{7}{219}\sqrt{233e^{13}}, \frac{2}{219}\sqrt{233e^{14}}, \frac{2}{219}\sqrt{233e^{15}},$ $\frac{7}{219}\sqrt{233e^{16}}, \frac{1}{73}\sqrt{3495e^{17}}$	$(-\frac{47}{219}, \frac{101}{146}, \frac{119}{438}, \frac{209}{438}, \frac{25}{438}, \frac{115}{438}, -\frac{23}{146}, \frac{7}{146}, -\frac{163}{438})$ $+\frac{4}{219}\sqrt{5359e^2} \otimes e_9$	{12357, 14689, 2458, 3679}
9642:49	$0, 0, 0, \frac{3}{26}\sqrt{10e^{12}}, \frac{3}{26}\sqrt{10e^{13}}, \frac{3}{26}\sqrt{2e^{14}}, \frac{3}{26}\sqrt{2e^{15}},$ $\frac{3}{26}\sqrt{10e^{16}}, \frac{3}{26}\sqrt{10e^{17}}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, \frac{3}{13}, \frac{3}{13}, 0, 0, -\frac{3}{13}, -\frac{3}{13})$ $+\frac{3}{26}\sqrt{46e^2} \otimes e_9 - \frac{3}{26}\sqrt{46e^3} \otimes e_8$	{12578, 2345, 6789}
9642:49	$0, 0, 0, \frac{3}{26}\sqrt{10e^{12}}, \frac{3}{26}\sqrt{10e^{13}}, \frac{3}{26}\sqrt{2e^{14}}, \frac{3}{26}\sqrt{2e^{15}},$ $\frac{3}{26}\sqrt{10e^{16}}, \frac{3}{26}\sqrt{10e^{17}}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, \frac{3}{13}, \frac{3}{13}, 0, 0, -\frac{3}{13}, -\frac{3}{13})$ $+\frac{3}{26}\sqrt{46e^2} \otimes e_9 + \frac{3}{26}\sqrt{46e^3} \otimes e_8$	{12578, 2345, 6789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9642:49	$0, 0, 0, \frac{1}{46} \sqrt{795}e^{12}, \frac{1}{92} \sqrt{3021}e^{13}, \frac{1}{92} \sqrt{106}e^{14}, \frac{1}{46} \sqrt{1007}e^{15},$ $\frac{3}{92} \sqrt{106}e^{16}, \frac{1}{92} \sqrt{3021}e^{17}$	$(\frac{19}{92}, -\frac{17}{46}, -\frac{29}{184}, -\frac{15}{92}, \frac{9}{184}, \frac{1}{23}, \frac{47}{184}, \frac{1}{4}, \frac{85}{184})$ $+ \frac{1}{46} \sqrt{2067}e^1 \otimes e_2$	{1378, 1589, 2356789, 268}
9642:49	$0, 0, 0, \frac{33}{4981} \sqrt{3210}e^{12}, \frac{33}{4981} \sqrt{2674}e^{13}, \frac{33}{4981} \sqrt{2470}e^{14},$ $\frac{33}{4981} \sqrt{246}e^{15}, \frac{330}{4981} \sqrt{14}e^{16}, \frac{66}{4981} \sqrt{463}e^{17}$	$(\frac{165}{4981}, \frac{660}{4981}, -\frac{924}{4981}, \frac{825}{4981}, -\frac{759}{4981}, \frac{990}{4981}, -\frac{594}{4981}, \frac{1155}{4981}, -\frac{429}{4981})$ $+ \frac{66}{4981} \sqrt{1358}e^1 \otimes e_3 + \frac{66}{4981} \sqrt{905}e^2 \otimes e_9$	{1489, 379}
9642:49	$0, 0, 0, \frac{3}{301} \sqrt{266}e^{12}, \frac{45}{301} e^{13}, \frac{3}{301} \sqrt{263}e^{14}, \frac{6}{301} \sqrt{39}e^{15},$ $\frac{3}{301} \sqrt{266}e^{16}, \frac{27}{301} e^{17}$	$(-\frac{3}{301}, \frac{24}{301}, -\frac{12}{301}, \frac{3}{43}, -\frac{15}{301}, \frac{18}{301}, -\frac{18}{301}, \frac{15}{301}, -\frac{3}{43})$ $+ \frac{15}{301} \sqrt{11}e^2 \otimes e_8 + \frac{36}{301} \sqrt{2}e^1 \otimes e_3$	{126, 148}
9642:49	$0, 0, 0, \frac{3}{13} \sqrt{14}e^{12}, \frac{9}{13} e^{13}, \frac{3}{13} \sqrt{11}e^{14}, \frac{6}{13} \sqrt{3}e^{15},$ $\frac{3}{13} \sqrt{14}e^{16}, \frac{9}{13} e^{17}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, \frac{3}{13}, \frac{3}{13}, 0, 0, -\frac{3}{13}, -\frac{3}{13})$ $+ \frac{3}{13} \sqrt{23}e^2 \otimes e_8$	{1235679, 126, 1345789, 148}
9642:50	$0, 0, 0, \frac{3}{85} \sqrt{26}e^{12}, \frac{21}{85} e^{13}, \frac{3}{85} \sqrt{7}e^{24}, \frac{3}{85} \sqrt{46}e^{15},$ $\frac{3}{85} \sqrt{46}e^{26}, \frac{21}{85} e^{17}$	$(-\frac{3}{85}, -\frac{3}{85}, \frac{3}{17}, -\frac{6}{85}, \frac{12}{85}, -\frac{9}{85}, \frac{9}{85}, -\frac{12}{85}, \frac{6}{85})$ $+ \frac{3}{85} \sqrt{58}e^3 \otimes e_9 + \frac{3}{85} \sqrt{91}e^1 \otimes e_8$	{137, 159}
9642:50	$0, 0, 0, \frac{1}{22} \sqrt{39}e^{12}, \frac{3}{22} \sqrt{13}e^{13}, \frac{1}{88} \sqrt{429}e^{24}, \frac{1}{11} \sqrt{39}e^{15},$ $\frac{1}{11} \sqrt{39}e^{26}, \frac{3}{22} \sqrt{13}e^{17}$	$(\frac{2}{11}, -\frac{13}{88}, -\frac{15}{176}, \frac{3}{88}, \frac{17}{176}, -\frac{5}{44}, \frac{49}{176}, -\frac{23}{88}, \frac{81}{176})$ $+ \frac{13}{88} \sqrt{33}e^1 \otimes e_8$	{137, 159, 3456789, 468}
9642:50	$0, 0, 0, \frac{14}{387} \sqrt{231}e^{12}, \frac{7}{387} \sqrt{546}e^{13}, \frac{7}{387} \sqrt{322}e^{24}, \frac{7}{387} \sqrt{1498}e^{15},$ $\frac{7}{387} \sqrt{14}e^{26}, \frac{28}{387} \sqrt{105}e^{17}$	$(\frac{133}{387}, -\frac{7}{129}, -\frac{70}{129}, \frac{112}{387}, -\frac{77}{387}, \frac{91}{387}, \frac{56}{387}, \frac{70}{387}, \frac{21}{43})$ $+ \frac{14}{387} \sqrt{1113}e^1 \otimes e_3$	{1267, 14678, 2348, 3}
9642:50	$0, 0, 0, \frac{3}{164} \sqrt{1417}e^{12}, \frac{1}{328} \sqrt{66381}e^{13}, \frac{3}{328} \sqrt{1526}e^{24}, \frac{1}{328} \sqrt{30738}e^{15},$ $\frac{1}{328} \sqrt{30738}e^{26}, \frac{1}{328} \sqrt{66381}e^{17}$	$(-\frac{109}{328}, \frac{73}{328}, \frac{453}{656}, -\frac{9}{82}, \frac{235}{656}, \frac{37}{328}, \frac{17}{656}, \frac{55}{164}, -\frac{201}{656})$ $+ \frac{1}{328} \sqrt{173310}e^3 \otimes e_9$	{123478, 124589, 137, 159}
9642:50	$0, 0, 0, \frac{1}{1953} \sqrt{1693074}e^{12}, \frac{5}{1953} \sqrt{102894}e^{13}, \frac{1}{1953} \sqrt{358570}e^{24},$ $\frac{4}{1953} \sqrt{57683}e^{15}, \frac{8}{1953} \sqrt{40534}e^{26}, \frac{1}{1953} \sqrt{65478}e^{17}$	$(-\frac{254}{1953}, -\frac{59}{1953}, \frac{376}{651}, -\frac{313}{1953}, \frac{874}{1953}, -\frac{4}{21}, \frac{20}{63}, -\frac{431}{1953}, \frac{122}{651})$ $+ \frac{4}{1953} \sqrt{313359}e^3 \otimes e_8$	{124589, 137, 235679, 468}
9642:50	$0, 0, 0, \frac{12}{2653} \sqrt{14}e^{12}, \frac{3}{2653} \sqrt{438}e^{13}, \frac{6}{2653} \sqrt{239}e^{24}, \frac{9}{2653} \sqrt{106}e^{15},$ $\frac{33}{2653} \sqrt{14}e^{26}, \frac{18}{2653} \sqrt{43}e^{17}$	$(-\frac{39}{2653}, -\frac{3}{2653}, \frac{15}{379}, -\frac{6}{379}, \frac{66}{2653}, -\frac{45}{2653}, \frac{27}{2653}, -\frac{48}{2653}, -\frac{12}{2653})$ $+ \frac{3}{2653} \sqrt{2438}e^1 \otimes e_8 + \frac{6}{2653} \sqrt{555}e^2 \otimes e_9$	{12367, 248}
9642:50	$0, 0, 0, \frac{30}{779} \sqrt{42}e^{12}, \frac{6}{779} \sqrt{721}e^{13}, \frac{24}{779} \sqrt{70}e^{24}, \frac{6}{779} \sqrt{546}e^{15},$ $\frac{6}{779} \sqrt{770}e^{26}, \frac{12}{779} \sqrt{427}e^{17}$	$(\frac{15}{779}, \frac{60}{779}, -\frac{111}{779}, \frac{75}{779}, -\frac{96}{779}, \frac{135}{779}, -\frac{81}{779}, \frac{195}{779}, -\frac{66}{779})$ $+ \frac{6}{779} \sqrt{2093}e^1 \otimes e_3 + \frac{6}{779} \sqrt{2765}e^2 \otimes e_9$	{1267, 2348}
9642:51	$0, 0, 0, \frac{3}{427} \sqrt{1526}e^{12}, \frac{6}{427} \sqrt{21}e^{13}, \frac{3}{427} \sqrt{1358}e^{24}, \frac{18}{427} \sqrt{7}e^{35},$ $\frac{6}{427} \sqrt{371}e^{26}, \frac{9}{427} \sqrt{154}e^{37}$	$(\frac{87}{427}, -\frac{3}{61}, -\frac{57}{427}, \frac{66}{427}, \frac{30}{427}, \frac{45}{427}, -\frac{27}{427}, \frac{24}{427}, -\frac{12}{61})$ $+ \frac{12}{427} \sqrt{119}e^1 \otimes e_8 + \frac{3}{427} \sqrt{3318}e^2 \otimes e_9$	{126, 23478}
9642:51	$0, 0, 0, \frac{7}{633} \sqrt{2010}e^{12}, \frac{14}{633} \sqrt{285}e^{13}, \frac{7}{633} \sqrt{2110}e^{24}, \frac{14}{211} \sqrt{10}e^{35},$ $\frac{28}{211} \sqrt{10}e^{26}, \frac{7}{633} \sqrt{2490}e^{37}$	$(\frac{7}{211}, \frac{77}{633}, -\frac{21}{211}, \frac{98}{633}, -\frac{14}{211}, \frac{175}{633}, -\frac{35}{211}, \frac{84}{211}, -\frac{56}{211})$ $+ \frac{35}{633} \sqrt{210}e^2 \otimes e_9$	{126, 1345689, 23478, 579}
9642:51	$0, 0, 0, \frac{7}{821} \sqrt{3390}e^{12}, \frac{42}{821} \sqrt{205}e^{13}, \frac{14}{821} \sqrt{390}e^{24}, \frac{14}{821} \sqrt{390}e^{35},$ $\frac{14}{821} \sqrt{1770}e^{26}, \frac{210}{821} e^{37}$	$(\frac{462}{821}, -\frac{245}{821}, -\frac{112}{821}, \frac{217}{821}, \frac{350}{821}, -\frac{28}{821}, \frac{238}{821}, -\frac{273}{821}, \frac{126}{821})$ $+ \frac{35}{821} \sqrt{798}e^1 \otimes e_8$	{123679, 12567, 23458, 2489}
9642:52	$0, 0, 0, \frac{2}{71} \sqrt{51}e^{12}, \frac{1}{71} \sqrt{249}e^{13}, \frac{3}{71} \sqrt{29}e^{14}, \frac{6}{71} \sqrt{7}e^{15},$ $\frac{18}{71} e^{16}, \frac{1}{71} \sqrt{249}e^{17} + \frac{4}{71} \sqrt{15}e^{23}$	$(-\frac{1}{71}, -\frac{3}{71}, \frac{7}{71}, -\frac{4}{71}, \frac{6}{71}, -\frac{5}{71}, \frac{5}{71}, -\frac{6}{71}, \frac{4}{71})$ $+ \frac{1}{71} \sqrt{393}e^2 \otimes e_8$	{1345789, 148}
9642:52	$0, 0, 0, \frac{98}{3637} \sqrt{322}e^{12}, \frac{98}{3637} \sqrt{257}e^{13}, \frac{49}{3637} \sqrt{926}e^{14}, \frac{49}{3637} \sqrt{678}e^{15},$ $\frac{49}{3637} \sqrt{3434}e^{16}, \frac{49}{3637} \sqrt{2090}e^{17} + \frac{98}{3637} \sqrt{802}e^{23}$	$(-\frac{147}{3637}, -\frac{441}{3637}, \frac{1519}{3637}, -\frac{588}{3637}, \frac{1372}{3637}, -\frac{735}{3637}, \frac{1225}{3637}, -\frac{882}{3637}, \frac{1078}{3637})$ $+ \frac{98}{3637} \sqrt{1559}e^3 \otimes e_8$	{1245789, 4678}
9642:53	$0, 0, 0, \frac{18}{469} \sqrt{13}e^{12}, \frac{9}{469} \sqrt{339}e^{13}, \frac{9}{469} \sqrt{173}e^{24}, \frac{9}{469} \sqrt{330}e^{15},$ $\frac{18}{469} \sqrt{113}e^{26}, \frac{9}{469} \sqrt{339}e^{17} + \frac{9}{469} \sqrt{366}e^{23}$	$(-\frac{9}{469}, -\frac{27}{469}, \frac{90}{469}, -\frac{36}{469}, \frac{81}{469}, -\frac{9}{67}, \frac{72}{469}, -\frac{90}{469}, \frac{9}{67})$ $+ \frac{9}{469} \sqrt{785}e^1 \otimes e_8$	{137, 159}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9642:53	$0, 0, 0, \frac{568}{6949}\sqrt{65}e^{12}, \frac{284}{6949}\sqrt{329}e^{13}, \frac{71}{6949}\sqrt{178}e^{24}, \frac{71}{6949}\sqrt{2146}e^{15}, \frac{781}{6949}\sqrt{42}e^{26}, \frac{71}{6949}\sqrt{546}e^{17} + \frac{142}{6949}\sqrt{703}e^{23}$	$(-\frac{213}{6949}, -\frac{639}{6949}, \frac{2911}{6949}, -\frac{852}{6949}, \frac{2698}{6949}, -\frac{1491}{6949}, \frac{2485}{6949}, -\frac{2130}{6949}, \frac{2272}{6949}) + \frac{142}{6949}\sqrt{2905}e^3 \otimes e_8$	{1568, 289}
9642:54	$0, 0, 0, \frac{9}{245}\sqrt{177}e^{12}, \frac{9}{245}\sqrt{310}e^{13}, \frac{18}{49}\sqrt{3}e^{14}, \frac{9}{245}\sqrt{235}e^{15}, \frac{9}{245}\sqrt{177}e^{16}, \frac{9}{245}\sqrt{214}e^{17} + \frac{72}{245}\sqrt{3}e^{24}$	$(-\frac{27}{245}, \frac{18}{245}, \frac{18}{49}, -\frac{9}{245}, \frac{9}{35}, -\frac{36}{245}, \frac{36}{245}, -\frac{9}{35}, \frac{9}{245}) + \frac{9}{245}\sqrt{439}e^3 \otimes e_9$	{1234678, 137}
9642:54	$0, 0, 0, \frac{9}{245}\sqrt{262}e^{12}, \frac{9}{245}\sqrt{129}e^{13}, \frac{9}{245}\sqrt{139}e^{14}, \frac{18}{245}\sqrt{51}e^{15}, \frac{9}{245}\sqrt{262}e^{16}, \frac{27}{49}e^{17} + \frac{72}{245}\sqrt{3}e^{24}$	$(-\frac{27}{245}, \frac{18}{245}, \frac{18}{49}, -\frac{9}{245}, \frac{9}{35}, -\frac{36}{245}, \frac{36}{245}, -\frac{9}{35}, \frac{9}{245}) + \frac{9}{245}\sqrt{439}e^2 \otimes e_8$	{1235679, 1345789}
9642:54	$0, 0, 0, \frac{65}{4101}\sqrt{926}e^{12}, \frac{65}{4101}\sqrt{2742}e^{13}, \frac{65}{4101}\sqrt{422}e^{14}, \frac{65}{4101}\sqrt{70}e^{15}, \frac{520}{4101}\sqrt{39}e^{16}, \frac{130}{4101}\sqrt{293}e^{17} + \frac{130}{4101}\sqrt{246}e^{24}$	$(-\frac{715}{4101}, \frac{650}{4101}, \frac{910}{1367}, -\frac{65}{4101}, \frac{2015}{4101}, -\frac{260}{1367}, \frac{1300}{4101}, -\frac{1495}{4101}, \frac{195}{1367}) + \frac{130}{4101}\sqrt{1711}e^3 \otimes e_8$	{158, 2689}
9642:54	$0, 0, 0, \frac{414}{1021}\sqrt{2}e^{12}, \frac{23}{1021}\sqrt{762}e^{13}, \frac{23}{1021}\sqrt{974}e^{14}, \frac{46}{1021}\sqrt{19}e^{15}, \frac{414}{1021}\sqrt{2}e^{16}, \frac{276}{1021}\sqrt{2}e^{17} + \frac{23}{1021}\sqrt{330}e^{24}$	$(\frac{161}{1021}, -\frac{23}{1021}, -\frac{368}{1021}, \frac{138}{1021}, -\frac{207}{1021}, \frac{299}{1021}, -\frac{46}{1021}, \frac{460}{1021}, \frac{115}{1021}) + \frac{23}{1021}\sqrt{1770}e^1 \otimes e_3$	{2346789, 379}
9642:55	$0, 0, 0, \frac{1}{52}\sqrt{1131}e^{12}, \frac{3}{26}\sqrt{13}e^{13}, \frac{1}{52}\sqrt{78}e^{14}, \frac{3}{55}\sqrt{26}e^{35}, \frac{1}{52}\sqrt{1131}e^{16}, \frac{3}{26}\sqrt{39}e^{24} + \frac{1}{52}\sqrt{78}e^{37}$	$(-\frac{1}{4}, \frac{3}{8}, \frac{1}{4}, \frac{1}{8}, 0, -\frac{1}{8}, \frac{1}{4}, -\frac{3}{8}, \frac{1}{2}) + \frac{1}{52}\sqrt{3354}e^2 \otimes e_8$	{2457, 5678}
9642:55	$0, 0, 0, \frac{68}{1381}\sqrt{46}e^{12}, \frac{68}{4143}\sqrt{642}e^{13}, \frac{68}{1381}\sqrt{10}e^{14}, \frac{68}{4143}\sqrt{1381}e^{35}, \frac{68}{1381}\sqrt{145}e^{16}, \frac{68}{1381}\sqrt{23}e^{24} + \frac{136}{4143}\sqrt{309}e^{37}$	$(-\frac{306}{1381}, \frac{442}{1381}, \frac{884}{4143}, \frac{136}{1381}, -\frac{34}{4143}, -\frac{170}{1381}, \frac{850}{4143}, -\frac{476}{1381}, \frac{578}{1381}) + \frac{68}{1381}\sqrt{382}e^3 \otimes e_8$	{1245789, 468}
9642:56	$0, 0, 0, \frac{56}{1317}\sqrt{69}e^{12}, \frac{28}{1317}\sqrt{501}e^{13}, \frac{28}{1317}\sqrt{159}e^{24}, \frac{28}{1317}\sqrt{439}e^{35}, \frac{28}{439}\sqrt{59}e^{26}, \frac{28}{1317}\sqrt{273}e^{14} + \frac{308}{1317}\sqrt{3}e^{37}$	$(\frac{84}{439}, -\frac{70}{439}, \frac{14}{1317}, \frac{14}{439}, \frac{266}{439}, -\frac{56}{439}, \frac{280}{1317}, -\frac{126}{439}, \frac{98}{439}) + \frac{28}{1317}\sqrt{1113}e^3 \otimes e_8$	{1245789, 137, 23569, 468}
9642:56	$0, 0, 0, \frac{56}{1317}\sqrt{69}e^{12}, \frac{28}{1317}\sqrt{501}e^{13}, \frac{28}{1317}\sqrt{159}e^{24}, \frac{28}{1317}\sqrt{439}e^{35}, \frac{28}{439}\sqrt{59}e^{26}, \frac{28}{1317}\sqrt{273}e^{14} + \frac{308}{1317}\sqrt{3}e^{37}$	$(\frac{84}{439}, -\frac{70}{439}, \frac{14}{1317}, \frac{14}{439}, \frac{266}{439}, \frac{56}{439}, \frac{280}{1317}, -\frac{126}{439}, \frac{98}{439}) - \frac{28}{1317}\sqrt{1113}e^3 \otimes e_8$	{1245789, 137, 23569, 468}
9642:56	$0, 0, 0, \frac{84}{5189}\sqrt{890}e^{12}, \frac{84}{5189}\sqrt{1086}e^{13}, \frac{1344}{5189}e^{24}, \frac{252}{5189}\sqrt{33}e^{35}, \frac{84}{5189}\sqrt{1433}e^{26}, \frac{84}{5189}\sqrt{1659}e^{14} + \frac{84}{5189}\sqrt{618}e^{37}$	$(\frac{1554}{5189}, -\frac{1176}{5189}, \frac{126}{5189}, \frac{378}{5189}, \frac{1680}{5189}, -\frac{798}{5189}, \frac{1806}{5189}, -\frac{1974}{5189}, \frac{1932}{5189}) + \frac{84}{5189}\sqrt{4298}e^1 \otimes e_8$	{1457, 3568}
9642:57	$0, 0, 0, \frac{51}{2341}\sqrt{46}e^{12}, \frac{17}{2341}\sqrt{1290}e^{13}, \frac{17}{2341}\sqrt{3482}e^{14}, \frac{17}{2341}\sqrt{2410}e^{15}, \frac{34}{2341}\sqrt{905}e^{16} + \frac{34}{2341}\sqrt{982}e^{24}, \frac{68}{2341}\sqrt{210}e^{17}$	$(\frac{85}{2341}, \frac{170}{2341}, -\frac{374}{2341}, \frac{255}{2341}, -\frac{289}{2341}, \frac{340}{2341}, -\frac{204}{2341}, \frac{425}{2341}, -\frac{119}{2341}) + \frac{102}{2341}\sqrt{115}e^2 \otimes e_9$	{145689, 35679}
9642:57	$0, 0, 0, \frac{123}{2389}\sqrt{134}e^{12}, \frac{861}{2389}\sqrt{6}e^{13}, \frac{779}{2389}\sqrt{6}e^{14}, \frac{41}{2389}\sqrt{1518}e^{15}, \frac{82}{2389}\sqrt{106}e^{16} + \frac{82}{2389}\sqrt{614}e^{24}, \frac{82}{2389}\sqrt{159}e^{17}$	$(-\frac{123}{2389}, -\frac{246}{2389}, \frac{1066}{2389}, -\frac{369}{2389}, \frac{943}{2389}, -\frac{492}{2389}, \frac{820}{2389}, -\frac{615}{2389}, \frac{697}{2389}) + \frac{82}{2389}\sqrt{1005}e^3 \otimes e_8$	{137, 48}
9642:57	$0, 0, 0, \frac{1}{17}\sqrt{78}e^{12}, \frac{1}{17}\sqrt{102}e^{13}, \frac{1}{17}\sqrt{146}e^{14}, \frac{1}{17}\sqrt{58}e^{15}, \frac{2}{17}\sqrt{30}e^{16} + \frac{2}{17}\sqrt{21}e^{24}, \frac{2}{17}\sqrt{6}e^{17}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{4}{17}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{17}) + \frac{2}{17}\sqrt{39}e^1 \otimes e_3$	{126, 234678}
9642:57	$0, 0, 0, \frac{3}{47}\sqrt{17}e^{12}, \frac{1}{47}\sqrt{246}e^{13}, \frac{10}{47}\sqrt{3}e^{14}, \frac{9}{47}\sqrt{3}e^{15}, \frac{1}{47}\sqrt{249}e^{16} + \frac{8}{47}\sqrt{3}e^{24}, \frac{1}{47}\sqrt{246}e^{17}$	$(-\frac{1}{47}, -\frac{2}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{5}{47}, -\frac{4}{47}, \frac{4}{47}, -\frac{5}{47}, \frac{3}{47}) + \frac{1}{47}\sqrt{255}e^3 \otimes e_9$	{137, 159}
9642:58	$0, 0, 0, \frac{24}{247}\sqrt{37}e^{12}, \frac{4}{247}\sqrt{1086}e^{13}, \frac{12}{247}\sqrt{66}e^{24}, \frac{4}{247}\sqrt{1038}e^{15}, \frac{12}{247}\sqrt{170}e^{14} + \frac{4}{247}\sqrt{1038}e^{26}, \frac{4}{247}\sqrt{1086}e^{17}$	$(-\frac{16}{247}, -\frac{8}{247}, \frac{66}{247}, -\frac{24}{247}, \frac{50}{247}, -\frac{32}{247}, \frac{34}{247}, -\frac{40}{247}, \frac{18}{247}) + \frac{4}{247}\sqrt{1230}e^3 \otimes e_9$	{123478, 124589, 137, 159}
9642:58	$0, 0, 0, \frac{24}{247}\sqrt{37}e^{12}, \frac{4}{247}\sqrt{1086}e^{13}, \frac{12}{247}\sqrt{66}e^{24}, \frac{4}{247}\sqrt{1038}e^{15}, \frac{12}{247}\sqrt{170}e^{14} + \frac{4}{247}\sqrt{1038}e^{26}, \frac{4}{247}\sqrt{1086}e^{17}$	$(-\frac{16}{247}, -\frac{8}{247}, \frac{66}{247}, -\frac{24}{247}, \frac{50}{247}, -\frac{32}{247}, \frac{34}{247}, -\frac{40}{247}, \frac{18}{247}) - \frac{4}{247}\sqrt{1230}e^3 \otimes e_9$	{123478, 124589, 137, 159}
9642:58	$0, 0, 0, \frac{1}{433}\sqrt{2226}e^{12}, \frac{7}{433}\sqrt{30}e^{13}, \frac{1}{433}\sqrt{3738}e^{24}, \frac{20}{433}\sqrt{7}e^{15}, \frac{4}{433}\sqrt{322}e^{14} + \frac{8}{433}\sqrt{70}e^{26}, \frac{1}{433}\sqrt{3990}e^{17}$	$(\frac{10}{433}, \frac{5}{433}, -\frac{32}{433}, \frac{15}{433}, -\frac{22}{433}, \frac{20}{433}, -\frac{12}{433}, \frac{25}{433}, -\frac{2}{433}) + \frac{12}{433}\sqrt{35}e^2 \otimes e_9$	{123478, 159}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9642:58	$0, 0, 0, \frac{141}{2791} \sqrt{210}e^{12}, \frac{141}{2791} \sqrt{286}e^{13}, \frac{141}{2791} \sqrt{58}e^{24},$ $\frac{1128}{2791} \sqrt{2}e^{15}, \frac{188}{2791} \sqrt{34}e^{14} + \frac{188}{2791} \sqrt{167}e^{26}, \frac{329}{2791} \sqrt{6}e^{17}$	$(-\frac{282}{2791}, -\frac{141}{2791}, \frac{1504}{2791}, -\frac{423}{2791}, \frac{1222}{2791}, -\frac{564}{2791}, \frac{940}{2791}, -\frac{705}{2791}, \frac{658}{2791})$ $+ \frac{188}{2791} \sqrt{285}e^3 \otimes e_8$	{124589, 137}
9642:59	$0, 0, 0, \frac{53}{8367} \sqrt{1578}e^{12}, \frac{53}{8367} \sqrt{4710}e^{13}, \frac{106}{2789} \sqrt{70}e^{14},$ $\frac{53}{8367} \sqrt{5578}e^{35}, \frac{53}{8367} \sqrt{2694}e^{16} + \frac{212}{8367} \sqrt{345}e^{24}, \frac{106}{8367} \sqrt{1002}e^{37}$	$(-\frac{106}{2789}, -\frac{212}{2789}, \frac{1219}{8367}, -\frac{318}{2789}, \frac{901}{8367}, -\frac{424}{2789}, \frac{2120}{8367}, -\frac{530}{2789}, \frac{1113}{2789})$ $+ \frac{212}{8367} \sqrt{879}e^3 \otimes e_8$	{123467, 268}
9642:59	$0, 0, 0, \frac{162}{2125} \sqrt{31}e^{12}, \frac{108}{2125} \sqrt{43}e^{13}, \frac{81}{2125} \sqrt{218}e^{14}, \frac{54}{2125} \sqrt{59}e^{35},$ $\frac{27}{2125} \sqrt{1590}e^{16} + \frac{54}{2125} \sqrt{237}e^{24}, \frac{27}{2125} \sqrt{1646}e^{37}$	$(\frac{27}{425}, \frac{54}{425}, -\frac{243}{2125}, \frac{81}{425}, -\frac{108}{2125}, \frac{108}{425}, -\frac{351}{2125}, \frac{27}{85}, -\frac{594}{2125})$ $+ \frac{27}{2125} \sqrt{3542}e^1 \otimes e_9$	{126, 2456789}
9642:59	$0, 0, 0, \frac{61}{8095} \sqrt{7206}e^{12}, \frac{61}{8095} \sqrt{2506}e^{13}, \frac{122}{8095} \sqrt{130}e^{14},$ $\frac{61}{8095} \sqrt{826}e^{35}, \frac{61}{8095} \sqrt{2922}e^{16} + \frac{244}{8095} \sqrt{409}e^{24}, \frac{122}{8095} \sqrt{1558}e^{37}$	$(\frac{122}{1619}, \frac{244}{1619}, -\frac{1037}{8095}, \frac{366}{1619}, -\frac{427}{8095}, \frac{488}{1619}, -\frac{1464}{8095}, \frac{610}{1619}, -\frac{2501}{8095})$ $+ \frac{244}{8095} \sqrt{857}e^2 \otimes e_9$	{1345689, 5679}
9642:60	$0, 0, 0, \frac{28}{367} \sqrt{17}e^{12}, \frac{14}{1101} \sqrt{110}e^{13}, \frac{14}{367} \sqrt{6}e^{24}, \frac{28}{1101} \sqrt{367}e^{35},$ $\frac{196}{1101} \sqrt{3}e^{14} + \frac{28}{367} \sqrt{41}e^{26}, \frac{14}{367} \sqrt{122}e^{37}$	$(-\frac{28}{367}, -\frac{14}{367}, \frac{182}{1101}, -\frac{42}{367}, \frac{98}{1101}, -\frac{56}{367}, \frac{280}{1101}, -\frac{70}{367}, \frac{154}{367})$ $+ \frac{14}{367} \sqrt{406}e^3 \otimes e_8$	{23569, 468}
9642:60	$0, 0, 0, \frac{378}{8275} \sqrt{211}e^{12}, \frac{63}{8275} \sqrt{1798}e^{13}, \frac{378}{8275} \sqrt{53}e^{24},$ $\frac{126}{8275} \sqrt{209}e^{35}, \frac{882}{8275} \sqrt{42}e^{14} + \frac{126}{8275} \sqrt{110}e^{26}, \frac{126}{8275} \sqrt{1529}e^{37}$	$(\frac{252}{1655}, \frac{126}{1655}, -\frac{1323}{8275}, \frac{378}{8275}, -\frac{63}{8275}, \frac{504}{1655}, -\frac{1386}{8275}, \frac{126}{331}, -\frac{2709}{8275})$ $+ \frac{63}{8275} \sqrt{14042}e^1 \otimes e_9$	{2456789, 5679}
9642:60	$0, 0, 0, \frac{2}{155} \sqrt{1218}e^{12}, \frac{4}{155} \sqrt{133}e^{13}, \frac{4}{155} \sqrt{406}e^{24}, \frac{2}{155} \sqrt{238}e^{35},$ $\frac{4}{155} \sqrt{133}e^{14} + \frac{2}{155} \sqrt{1218}e^{26}, \frac{4}{155} \sqrt{406}e^{37}$	$(\frac{4}{31}, \frac{2}{31}, -\frac{22}{155}, \frac{6}{31}, -\frac{2}{155}, \frac{8}{31}, -\frac{24}{155}, \frac{10}{31}, -\frac{46}{155})$ $+ \frac{14}{155} \sqrt{74}e^2 \otimes e_9$	{126, 1345689}
96321:1	$0, 0, 0, \frac{2}{473} \sqrt{2343}e^{12}, \frac{2}{473} \sqrt{4686}e^{13}, \frac{3}{473} \sqrt{7810}e^{23}, \frac{6}{473} \sqrt{1562}e^{14},$ $\frac{3}{473} \sqrt{7810}e^{17}, \frac{1}{43} \sqrt{426}e^{18}$	$(\frac{7}{43}, -\frac{101}{473}, -\frac{35}{473}, -\frac{24}{473}, \frac{42}{473}, -\frac{136}{473}, \frac{53}{473}, \frac{130}{473}, \frac{207}{473})$ $+ \frac{3}{473} \sqrt{18318}e^1 \otimes e_6$	{123579, 148, 2456789, 36}
96321:1	$0, 0, 0, \frac{36}{403} \sqrt{7}e^{12}, \frac{9}{403} \sqrt{43}e^{13}, \frac{9}{403} \sqrt{217}e^{23}, \frac{9}{403} \sqrt{138}e^{14},$ $\frac{9}{403} \sqrt{2}e^{17}, \frac{9}{403} \sqrt{82}e^{18}$	$(\frac{18}{403}, \frac{18}{403}, -\frac{81}{403}, \frac{36}{403}, -\frac{63}{403}, -\frac{63}{403}, \frac{54}{403}, \frac{72}{403}, \frac{90}{403})$ $+ \frac{189}{403} e^1 \otimes e_6 - \frac{9}{403} \sqrt{267}e^2 \otimes e_5$	{12379, 1458, 246789, 356}
96321:1	$0, 0, 0, \frac{36}{403} \sqrt{7}e^{12}, \frac{9}{403} \sqrt{43}e^{13}, \frac{9}{403} \sqrt{217}e^{23}, \frac{9}{403} \sqrt{138}e^{14},$ $\frac{9}{403} \sqrt{2}e^{17}, \frac{9}{403} \sqrt{82}e^{18}$	$(\frac{18}{403}, \frac{18}{403}, -\frac{81}{403}, \frac{36}{403}, -\frac{63}{403}, -\frac{63}{403}, \frac{54}{403}, \frac{72}{403}, \frac{90}{403})$ $+ \frac{189}{403} e^1 \otimes e_6 + \frac{9}{403} \sqrt{267}e^2 \otimes e_5$	{12379, 1458, 246789, 356}
96321:1	$0, 0, 0, \frac{6}{973} \sqrt{413}e^{12}, \frac{3}{973} \sqrt{574}e^{13}, \frac{30}{139} e^{23}, \frac{36}{973} \sqrt{7}e^{14},$ $\frac{6}{973} \sqrt{770}e^{17}, \frac{6}{973} \sqrt{1141}e^{18}$	$(\frac{6}{139}, -\frac{18}{139}, \frac{15}{139}, -\frac{12}{139}, \frac{21}{139}, -\frac{3}{139}, -\frac{6}{139}, 0, \frac{6}{139})$ $+ \frac{6}{973} \sqrt{1365}e^3 \otimes e_9 + \frac{9}{973} \sqrt{742}e^1 \otimes e_6$	{12348, 1579}
96321:1	$0, 0, 0, \frac{90}{1243} \sqrt{105}e^{12}, \frac{9}{1243} \sqrt{10410}e^{13}, \frac{18}{1243} \sqrt{1365}e^{23}, \frac{54}{1243} \sqrt{5}e^{14},$ $\frac{9}{1243} \sqrt{5010}e^{17}, \frac{117}{1243} \sqrt{30}e^{18}$	$(-\frac{171}{1243}, \frac{711}{1243}, -\frac{333}{1243}, \frac{540}{1243}, -\frac{504}{1243}, \frac{378}{1243}, \frac{369}{1243}, \frac{18}{113}, \frac{27}{1243})$ $+ \frac{27}{1243} \sqrt{3490}e^2 \otimes e_5$	{123789, 145, 24679, 3568}
96321:1	$0, 0, 0, \frac{90}{1231} \sqrt{7}e^{12}, \frac{18}{1231} \sqrt{785}e^{13}, \frac{9}{1231} \sqrt{3290}e^{23}, \frac{18}{1231} \sqrt{345}e^{14},$ $\frac{18}{1231} \sqrt{110}e^{17}, \frac{18}{1231} \sqrt{530}e^{18}$	$(-\frac{162}{1231}, \frac{342}{1231}, \frac{99}{1231}, \frac{180}{1231}, -\frac{63}{1231}, \frac{441}{1231}, \frac{18}{1231}, -\frac{144}{1231}, -\frac{306}{1231})$ $+ \frac{270}{1231} \sqrt{7}e^3 \otimes e_9 + \frac{9}{1231} \sqrt{4890}e^2 \otimes e_5$	{123478, 159}
96321:1	$0, 0, 0, \frac{60}{2519} \sqrt{782}e^{12}, \frac{420}{2519} \sqrt{10}e^{13}, \frac{60}{2519} \sqrt{937}e^{23}, \frac{360}{2519} \sqrt{11}e^{14},$ $\frac{60}{2519} \sqrt{221}e^{17}, \frac{60}{2519} \sqrt{1069}e^{18}$	$(-\frac{21}{229}, \frac{216}{2519}, \frac{1092}{2519}, -\frac{15}{2519}, \frac{861}{2519}, \frac{1308}{2519}, -\frac{246}{2519}, -\frac{477}{2519}, -\frac{708}{2519})$ $+ \frac{120}{2519} \sqrt{537}e^3 \otimes e_9$	{1245679, 1368, 26789, 3456}
96321:2	$0, 0, 0, \frac{42}{1261} \sqrt{23}e^{12}, \frac{84}{1261} \sqrt{26}e^{13}, \frac{231}{1261} \sqrt{10}e^{23}, \frac{378}{1261} \sqrt{2}e^{14},$ $\frac{21}{1261} \sqrt{1010}e^{17}, \frac{21}{1261} \sqrt{994}e^{18} + \frac{210}{1261} \sqrt{6}e^{35}$	$(\frac{189}{1261}, -\frac{357}{1261}, \frac{105}{1261}, -\frac{168}{1261}, \frac{294}{1261}, -\frac{252}{1261}, \frac{21}{1261}, \frac{210}{1261}, \frac{399}{1261})$ $+ \frac{21}{1261} \sqrt{2118}e^1 \otimes e_6$	{179, 256}
96321:3	$0, 0, 0, -\frac{30}{221} \sqrt{30}e^{12}, \frac{6}{221} \sqrt{390}e^{13}, \frac{12}{221} \sqrt{183}e^{23}, \frac{18}{221} \sqrt{2}e^{24},$ $\frac{6}{221} \sqrt{354}e^{27}, \frac{6}{221} \sqrt{366}e^{28} + \frac{18}{221} \sqrt{2}e^{35}$	$(\frac{126}{221}, -\frac{30}{221}, -\frac{60}{221}, \frac{96}{221}, \frac{66}{221}, -\frac{90}{221}, \frac{66}{221}, \frac{36}{221}, \frac{6}{221})$ $+ \frac{36}{221} \sqrt{62}e^1 \otimes e_6$	{123789, 14579, 246, 3568, 123789, 14579, 246, 3568}
96321:3	$0, 0, 0, \frac{30}{221} \sqrt{30}e^{12}, \frac{6}{221} \sqrt{390}e^{13}, \frac{12}{221} \sqrt{183}e^{23}, \frac{18}{221} \sqrt{2}e^{24},$ $\frac{6}{221} \sqrt{354}e^{27}, \frac{6}{221} \sqrt{366}e^{28} + \frac{18}{221} \sqrt{2}e^{35}$	$(\frac{126}{221}, -\frac{30}{221}, -\frac{60}{221}, \frac{96}{221}, \frac{66}{221}, -\frac{90}{221}, \frac{66}{221}, \frac{36}{221}, \frac{6}{221})$ $+ \frac{36}{221} \sqrt{62}e^1 \otimes e_6$	{123789, 14579, 246, 3568, 123789, 14579, 246, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
96321:4	$0, 0, 0, \frac{126}{5917}\sqrt{493e^{12}}, \frac{882}{5917}\sqrt{10e^{13}}, \frac{63}{5917}\sqrt{3982e^{23}},$ $\frac{126}{5917}\sqrt{57e^{24}}, \frac{63}{5917}\sqrt{1390e^{27}}, \frac{378}{5917}\sqrt{118e^{15}} + \frac{63}{5917}\sqrt{2882e^{28}}$	$(\frac{1827}{5917}, -\frac{63}{5917}, -\frac{2079}{5917}, \frac{1764}{5917}, -\frac{252}{5917}, -\frac{2142}{5917}, \frac{1701}{5917}, \frac{1638}{5917}, \frac{1575}{5917})$ $+ \frac{315}{5917}\sqrt{402e^1} \otimes e_6$	{123789, 246}
96321:5	$0, 0, 0, \frac{102}{4099}\sqrt{515e^{12}}, \frac{204}{4099}\sqrt{151e^{13}}, \frac{102}{4099}\sqrt{502e^{23}},$ $\frac{306}{4099}\sqrt{53e^{14}}, \frac{51}{4099}\sqrt{266e^{17}}, \frac{102}{4099}\sqrt{661e^{18}} + \frac{153}{4099}\sqrt{202e^{24}}$	$(-\frac{102}{4099}, -\frac{306}{4099}, \frac{1887}{4099}, -\frac{408}{4099}, \frac{1785}{4099}, \frac{1581}{4099}, -\frac{510}{4099}, -\frac{612}{4099}, -\frac{714}{4099})$ $+ \frac{102}{4099}\sqrt{1761e^3} \otimes e_9$	{1368, 26789}
96321:5	$0, 0, 0, \frac{6}{79}\sqrt{57e^{12}}, \frac{3}{79}\sqrt{282e^{13}}, \frac{3}{79}\sqrt{114e^{23}}, \frac{18}{79}\sqrt{3e^{14}},$ $\frac{6}{79}\sqrt{39e^{17}}, \frac{3}{79}\sqrt{222e^{18}} + \frac{9}{79}\sqrt{34e^{24}}$	$(\frac{3}{79}, \frac{9}{79}, -\frac{21}{79}, \frac{12}{79}, -\frac{18}{79}, -\frac{12}{79}, \frac{15}{79}, \frac{18}{79}, \frac{21}{79})$ $+ \frac{36}{79}\sqrt{3e^2} \otimes e_5$	{1456789, 248}
96321:5	$0, 0, 0, \frac{6}{137}\sqrt{11e^{12}}, \frac{3}{137}\sqrt{161e^{13}}, \frac{3}{137}\sqrt{334e^{23}}, \frac{9}{137}\sqrt{26e^{14}},$ $\frac{3}{137}\sqrt{251e^{17}}, \frac{48}{137}e^{18} + \frac{3}{137}\sqrt{249e^{24}}$	$(\frac{3}{137}, \frac{9}{137}, -\frac{24}{137}, \frac{12}{137}, -\frac{21}{137}, -\frac{15}{137}, \frac{15}{137}, \frac{18}{137}, \frac{21}{137})$ $+ \frac{3}{137}\sqrt{471e^1} \otimes e_6$	{179, 256}
9641:1	$0, 0, 0, \frac{45}{3551}\sqrt{206e^{12}}, \frac{45}{3551}\sqrt{1246e^{13}}, \frac{540}{3551}e^{14}, \frac{180}{3551}\sqrt{6e^{15}},$ $\frac{45}{3551}\sqrt{1610e^{35}}, \frac{45}{3551}\sqrt{1126e^{16}}$	$(-\frac{810}{3551}, \frac{1440}{3551}, \frac{1035}{3551}, \frac{630}{3551}, \frac{225}{3551}, -\frac{180}{3551}, -\frac{585}{3551}, \frac{1260}{3551}, -\frac{990}{3551})$ $+ \frac{180}{3551}\sqrt{251e^3} \otimes e_9 + \frac{360}{3551}\sqrt{34e^2} \otimes e_7$	{12589, 134678}
9641:1	$0, 0, 0, \frac{37}{5437}\sqrt{2318e^{12}}, \frac{37}{5437}\sqrt{30e^{13}}, \frac{37}{5437}\sqrt{1462e^{14}},$ $\frac{37}{5437}\sqrt{3214e^{15}}, \frac{74}{5437}\sqrt{1174e^{35}}, \frac{74}{5437}\sqrt{577e^{16}}$	$(-\frac{851}{5437}, \frac{1850}{5437}, \frac{666}{5437}, \frac{999}{5437}, -\frac{185}{5437}, \frac{148}{5437}, -\frac{1036}{5437}, \frac{481}{5437}, -\frac{703}{5437})$ $+ \frac{74}{5437}\sqrt{1214e^3} \otimes e_9 + \frac{74}{5437}\sqrt{1219e^2} \otimes e_8$	{123567, 378}
9641:1	$0, 0, 0, \frac{24}{329}\sqrt{11e^{12}}, \frac{12}{1645}\sqrt{402e^{13}}, \frac{24}{1645}\sqrt{263e^{14}}, \frac{24}{1645}\sqrt{177e^{15}},$ $\frac{36}{1645}\sqrt{102e^{35}}, \frac{24}{329}\sqrt{11e^{16}}$	$(-\frac{48}{1645}, \frac{258}{1645}, -\frac{72}{1645}, \frac{6}{47}, -\frac{24}{329}, \frac{162}{1645}, -\frac{24}{235}, -\frac{192}{1645}, \frac{114}{1645})$ $+ \frac{24}{1645}\sqrt{311e^2} \otimes e_9 + \frac{36}{1645}\sqrt{186e^1} \otimes e_8$	{123567, 126, 134579, 149}
9641:1	$0, 0, 0, \frac{24}{329}\sqrt{11e^{12}}, \frac{12}{1645}\sqrt{402e^{13}}, \frac{24}{1645}\sqrt{263e^{14}}, \frac{24}{1645}\sqrt{177e^{15}},$ $\frac{36}{1645}\sqrt{102e^{35}}, \frac{24}{329}\sqrt{11e^{16}}$	$(-\frac{48}{1645}, \frac{258}{1645}, -\frac{72}{1645}, \frac{6}{47}, -\frac{24}{329}, \frac{162}{1645}, -\frac{24}{235}, -\frac{192}{1645}, \frac{114}{1645})$ $+ \frac{24}{1645}\sqrt{311e^2} \otimes e_9 - \frac{36}{1645}\sqrt{186e^1} \otimes e_8$	{123567, 126, 134579, 149}
9641:1	$0, 0, 0, \frac{1}{393}\sqrt{112426e^{12}}, \frac{1}{1179}\sqrt{464806e^{13}}, \frac{1}{1179}\sqrt{515146e^{14}},$ $\frac{1}{393}\sqrt{85578e^{15}}, \frac{2}{1179}\sqrt{229047e^{35}}, \frac{2}{1179}\sqrt{44467e^{16}}$	$(-\frac{95}{1179}, \frac{64}{131}, -\frac{28}{393}, \frac{481}{1179}, \frac{179}{1179}, \frac{386}{1179}, -\frac{274}{1179}, -\frac{263}{1179}, \frac{97}{393})$ $+ \frac{2}{1179}\sqrt{416983e^2} \otimes e_8$	{123567, 126, 378, 58}
9641:1	$0, 0, 0, \frac{1}{47}\sqrt{714e^{12}}, \frac{1}{47}\sqrt{966e^{13}}, \frac{1}{47}\sqrt{434e^{14}}, \frac{1}{47}\sqrt{1022e^{15}},$ $\frac{2}{47}\sqrt{42e^{35}}, \frac{4}{47}\sqrt{42e^{16}}$	$(\frac{13}{47}, -\frac{22}{47}, -\frac{4}{47}, -\frac{9}{47}, \frac{9}{47}, \frac{4}{47}, \frac{22}{47}, \frac{5}{47}, \frac{17}{47})$ $+ \frac{6}{47}\sqrt{77e^1} \otimes e_2$	{1367, 156, 23578, 28}
9641:1	$0, 0, 0, \frac{11}{1193}\sqrt{1330e^{12}}, \frac{11}{1193}\sqrt{3934e^{13}}, \frac{44}{1193}\sqrt{35e^{14}},$ $\frac{44}{1193}\sqrt{182e^{15}}, \frac{11}{1193}\sqrt{6538e^{35}}, \frac{99}{1193}\sqrt{70e^{16}}$	$(-\frac{230}{1193}, \frac{288}{1193}, \frac{445}{1193}, \frac{58}{1193}, \frac{215}{1193}, -\frac{172}{1193}, -\frac{15}{1193}, \frac{660}{1193}, -\frac{402}{1193})$ $+ \frac{220}{1193}\sqrt{35e^3} \otimes e_9$	{1245789, 1368, 235, 4679}
9641:1	$0, 0, 0, \frac{1}{1121}\sqrt{687990e^{12}}, \frac{1}{1121}\sqrt{137598e^{13}}, \frac{2}{1121}\sqrt{55522e^{14}},$ $\frac{6}{1121}\sqrt{26554e^{15}}, \frac{1}{1121}\sqrt{176222e^{35}}, \frac{17}{1121}\sqrt{1562e^{16}}$	$(-\frac{282}{1121}, \frac{44}{59}, \frac{193}{1121}, \frac{554}{1121}, -\frac{89}{1121}, \frac{272}{1121}, -\frac{371}{1121}, \frac{104}{1121}, -\frac{10}{1121})$ $+ \frac{4}{1121}\sqrt{142426e^2} \otimes e_7$	{125, 134679, 2489, 35678}
9641:1	$0, 0, 0, \frac{1}{175}\sqrt{2170e^{12}}, \frac{1}{25}\sqrt{70e^{13}}, \frac{1}{175}\sqrt{770e^{14}}, \frac{1}{175}\sqrt{910e^{15}},$ $\frac{2}{25}\sqrt{10e^{35}}, \frac{4}{175}\sqrt{210e^{16}}$	$(\frac{1}{35}, -\frac{6}{35}, \frac{4}{35}, -\frac{1}{7}, \frac{1}{7}, -\frac{4}{35}, \frac{6}{35}, \frac{9}{35}, -\frac{3}{35})$ $+ \frac{2}{175}\sqrt{1365e^1} \otimes e_2 + \frac{4}{35}\sqrt{14e^3} \otimes e_9$	{13678, 2357}
9641:1	$0, 0, 0, \frac{3}{584}\sqrt{26765e^{12}}, \frac{3}{584}\sqrt{20670e^{13}}, \frac{3}{584}\sqrt{18338e^{14}}, \frac{3}{584}\sqrt{24486e^{15}},$ $\frac{9}{292}\sqrt{318e^{35}}, \frac{3}{584}\sqrt{26765e^{16}}$	$(-\frac{159}{584}, \frac{663}{1168}, \frac{45}{146}, \frac{345}{1168}, \frac{21}{584}, \frac{27}{1168}, -\frac{69}{292}, \frac{201}{584}, -\frac{291}{1168})$ $+ \frac{3}{584}\sqrt{52046e^2} \otimes e_9$	{123567, 126, 134579, 149}
9641:2	$0, 0, 0, \frac{2}{4245}\sqrt{1209333e^{12}}, \frac{2}{4245}\sqrt{219207e^{13}}, \frac{2}{4245}\sqrt{1161715e^{24}},$ $\frac{2}{4245}\sqrt{682251e^{15}}, \frac{4}{1415}\sqrt{38587e^{35}}, \frac{4}{4245}\sqrt{189651e^{26}}$	$(\frac{99}{1415}, \frac{433}{4245}, -\frac{251}{1415}, \frac{146}{849}, -\frac{152}{1415}, \frac{1163}{4245}, -\frac{53}{1415}, -\frac{403}{1415}, \frac{532}{1415})$ $+ \frac{2}{1415}\sqrt{325937e^2} \otimes e_8$	{123567, 126, 378, 58}
9641:2	$0, 0, 0, \frac{1}{543}\sqrt{44697e^{12}}, \frac{1}{181}\sqrt{634e^{13}}, \frac{1}{543}\sqrt{114754e^{24}}, \frac{1}{543}\sqrt{104610e^{15}},$ $\frac{1}{181}\sqrt{1585e^{35}}, \frac{1}{181}\sqrt{11095e^{26}}$	$(-\frac{49}{181}, \frac{134}{543}, \frac{37}{181}, -\frac{13}{543}, -\frac{12}{181}, \frac{121}{543}, -\frac{61}{181}, \frac{25}{181}, \frac{85}{181})$ $+ \frac{3}{181}\sqrt{3487e^2} \otimes e_7$	{1256, 134679, 2489, 3578}
9641:2	$0, 0, 0, \frac{2}{9703}\sqrt{410e^{12}}, \frac{2}{9703}\sqrt{706e^{13}}, \frac{4}{9703}\sqrt{238e^{24}}, \frac{1}{9703}\sqrt{2242e^{15}},$ $\frac{4}{9703}\sqrt{451e^{35}}, \frac{3}{9703}\sqrt{658e^{26}}$	$(-\frac{46}{9703}, \frac{27}{9703}, \frac{36}{9703}, -\frac{19}{9703}, -\frac{10}{9703}, \frac{8}{9703}, -\frac{56}{9703}, \frac{26}{9703}, \frac{35}{9703})$ $+ \frac{1}{9703}\sqrt{7982e^3} \otimes e_9 + \frac{1}{9703}\sqrt{9294e^2} \otimes e_8$	{1456789, 2479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:2	$0, 0, 0, \frac{3}{3277}\sqrt{410}e^{12}, \frac{9}{3277}\sqrt{118}e^{13}, \frac{3}{3277}\sqrt{1226}e^{24}, \frac{9}{3277}\sqrt{246}e^{15},$ $\frac{3}{3277}\sqrt{498}e^{35}, \frac{96}{3277}\sqrt{2}e^{26}$	$(-\frac{45}{3277}, -\frac{3}{3277}, \frac{78}{3277}, -\frac{48}{3277}, \frac{33}{3277}, -\frac{51}{3277}, -\frac{12}{3277}, \frac{111}{3277}, -\frac{54}{3277})$ $+\frac{3}{3277}\sqrt{2958}e^2 \otimes e_7 + \frac{6}{3277}\sqrt{719}e^1 \otimes e_9$	{1256, 2489}
9641:2	$0, 0, 0, \frac{2}{1423}\sqrt{117607}e^{12}, \frac{4}{1423}\sqrt{53795}e^{13}, \frac{8}{1423}\sqrt{1855}e^{24},$ $\frac{2}{1423}\sqrt{11501}e^{15}, \frac{8}{1423}\sqrt{10759}e^{35}, \frac{4}{1423}\sqrt{53795}e^{26}$	$(-\frac{54}{1423}, -\frac{103}{1423}, \frac{379}{1423}, -\frac{157}{1423}, \frac{325}{1423}, -\frac{260}{1423}, \frac{271}{1423}, \frac{704}{1423}, -\frac{363}{1423})$ $+\frac{182}{1423}\sqrt{53}e^3 \otimes e_9$	{124589, 1378, 23567, 469}
9641:2	$0, 0, 0, \frac{1}{725}\sqrt{6258}e^{12}, \frac{2}{725}\sqrt{54534}e^{13}, \frac{2}{725}\sqrt{9834}e^{24}, \frac{6}{725}\sqrt{6407}e^{15},$ $\frac{6}{725}\sqrt{1043}e^{35}, \frac{2}{725}\sqrt{54534}e^{26}$	$(\frac{46}{145}, -\frac{149}{725}, -\frac{14}{145}, \frac{81}{725}, \frac{32}{145}, -\frac{68}{725}, \frac{78}{145}, \frac{18}{145}, -\frac{217}{725})$ $+\frac{1}{725}\sqrt{530142}e^1 \otimes e_9$	{137, 15, 3456789, 4689}
9641:2	$0, 0, 0, \frac{10}{1013}\sqrt{238}e^{12}, \frac{20}{1013}\sqrt{218}e^{13}, \frac{40}{1013}\sqrt{46}e^{24}, \frac{20}{1013}\sqrt{155}e^{15},$ $\frac{10}{1013}\sqrt{586}e^{35}, \frac{10}{1013}\sqrt{1430}e^{26}$	$(-\frac{180}{1013}, \frac{70}{1013}, \frac{230}{1013}, -\frac{110}{1013}, \frac{50}{1013}, -\frac{40}{1013}, -\frac{130}{1013}, \frac{280}{1013}, \frac{30}{1013})$ $+\frac{20}{1013}\sqrt{461}e^3 \otimes e_9 + \frac{30}{1013}\sqrt{186}e^2 \otimes e_7$	{124589, 1378}
9641:2	$0, 0, 0, \frac{33}{8083}\sqrt{3290}e^{12}, \frac{198}{8083}\sqrt{43}e^{13}, \frac{66}{8083}\sqrt{857}e^{24},$ $\frac{66}{8083}\sqrt{114}e^{15}, \frac{198}{8083}\sqrt{91}e^{35}, \frac{66}{8083}\sqrt{1073}e^{26}$	$(\frac{1320}{8083}, -\frac{363}{8083}, -\frac{1386}{8083}, \frac{957}{8083}, -\frac{66}{8083}, \frac{594}{8083}, \frac{1254}{8083}, -\frac{1452}{8083}, \frac{231}{8083})$ $+\frac{33}{8083}\sqrt{5882}e^1 \otimes e_9 + \frac{462}{8083}\sqrt{42}e^2 \otimes e_8$	{234579, 249}
9641:3	$0, 0, 0, \frac{21}{166}\sqrt{5}e^{12}, \frac{7}{83}\sqrt{65}e^{13}, \frac{7}{166}\sqrt{1230}e^{14}, \frac{7}{166}\sqrt{230}e^{24},$ $\frac{21}{249}\sqrt{415}e^{35}, \frac{21}{166}\sqrt{5}e^{16}$	$(\frac{7}{83}, -\frac{63}{332}, \frac{49}{249}, -\frac{35}{332}, \frac{70}{249}, -\frac{7}{332}, -\frac{49}{166}, \frac{119}{249}, \frac{21}{332})$ $+\frac{7}{249}\sqrt{1065}e^3 \otimes e_7$	{1234689, 138, 267, 479}
9641:3	$0, 0, 0, \frac{6}{1031}\sqrt{12470}e^{12}, \frac{258}{1031}\sqrt{3}e^{13}, \frac{6}{1031}\sqrt{559}e^{14}, \frac{12}{1031}\sqrt{3741}e^{24},$ $\frac{12}{1031}\sqrt{645}e^{35}, \frac{6}{1031}\sqrt{12470}e^{16}$	$(-\frac{258}{1031}, \frac{393}{1031}, \frac{249}{1031}, \frac{135}{1031}, -\frac{9}{1031}, -\frac{123}{1031}, \frac{528}{1031}, \frac{240}{1031}, -\frac{381}{1031})$ $+\frac{6}{1031}\sqrt{36593}e^2 \otimes e_9$	{2348, 2458, 3689, 5689}
9641:3	$0, 0, 0, \frac{18}{1261}\sqrt{322}e^{12}, \frac{54}{1261}\sqrt{3}e^{13}, \frac{18}{1261}\sqrt{229}e^{14}, \frac{36}{1261}\sqrt{33}e^{24},$ $\frac{36}{1261}\sqrt{66}e^{35}, \frac{18}{1261}\sqrt{322}e^{16}$	$(-\frac{54}{1261}, \frac{171}{1261}, -\frac{81}{1261}, \frac{9}{97}, -\frac{135}{1261}, \frac{63}{1261}, \frac{288}{1261}, -\frac{216}{1261}, \frac{9}{1261})$ $+\frac{18}{1261}\sqrt{469}e^2 \otimes e_9 + \frac{36}{1261}\sqrt{159}e^1 \otimes e_8$	{123567, 1267, 134579, 1479}
9641:3	$0, 0, 0, \frac{18}{1261}\sqrt{322}e^{12}, \frac{54}{1261}\sqrt{3}e^{13}, \frac{18}{1261}\sqrt{229}e^{14}, \frac{36}{1261}\sqrt{33}e^{24},$ $\frac{36}{1261}\sqrt{66}e^{35}, \frac{18}{1261}\sqrt{322}e^{16}$	$(-\frac{54}{1261}, \frac{171}{1261}, -\frac{81}{1261}, \frac{9}{97}, -\frac{135}{1261}, \frac{63}{1261}, \frac{288}{1261}, -\frac{216}{1261}, \frac{9}{1261})$ $+\frac{18}{1261}\sqrt{469}e^2 \otimes e_9 + \frac{36}{1261}\sqrt{159}e^1 \otimes e_8$	{123567, 1267, 134579, 1479}
9641:3	$0, 0, 0, \frac{32}{489}\sqrt{15}e^{12}, \frac{128}{489}e^{13}, \frac{16}{489}\sqrt{38}e^{14}, \frac{16}{489}\sqrt{109}e^{24},$ $\frac{16}{489}\sqrt{163}e^{35}, \frac{16}{163}\sqrt{5}e^{16}$	$(-\frac{24}{163}, \frac{40}{163}, \frac{32}{489}, \frac{16}{163}, -\frac{40}{489}, -\frac{8}{163}, \frac{56}{163}, -\frac{8}{489}, -\frac{32}{163})$ $+\frac{160}{489}\sqrt{2}e^3 \otimes e_9 + \frac{16}{489}\sqrt{230}e^2 \otimes e_8$	{134678, 2345}
9641:3	$0, 0, 0, \frac{21}{2020}\sqrt{257}e^{12}, \frac{21}{2020}\sqrt{906}e^{13}, \frac{273}{1010}e^{14}, \frac{21}{1010}\sqrt{393}e^{24},$ $\frac{21}{1010}\sqrt{213}e^{35}, \frac{21}{2020}\sqrt{257}e^{16}$	$(-\frac{147}{2020}, \frac{21}{808}, \frac{399}{2020}, -\frac{189}{4040}, \frac{63}{505}, -\frac{483}{4040}, -\frac{21}{1010}, \frac{651}{2020}, -\frac{777}{4040})$ $+\frac{189}{2020}\sqrt{26}e^3 \otimes e_7 + \frac{21}{1010}\sqrt{371}e^2 \otimes e_9$	{2345, 3569}
9641:3	$0, 0, 0, \frac{4}{1361}\sqrt{214890}e^{12}, \frac{4}{1361}\sqrt{53534}e^{13}, \frac{4}{1361}\sqrt{12818}e^{14},$ $\frac{4}{1361}\sqrt{13949}e^{24}, \frac{4}{4083}\sqrt{513097}e^{35}, \frac{20}{1361}\sqrt{1885}e^{16}$	$(-\frac{278}{1361}, \frac{310}{1361}, \frac{1444}{4083}, \frac{32}{1361}, \frac{610}{4083}, -\frac{246}{1361}, \frac{342}{1361}, \frac{2054}{4083}, -\frac{524}{1361})$ $+\frac{4}{4083}\sqrt{1278030}e^3 \otimes e_9$	{123468, 1589, 2679, 3457}
9641:3	$0, 0, 0, \frac{320}{831}\sqrt{3}e^{12}, \frac{64}{831}\sqrt{6}e^{13}, \frac{32}{831}\sqrt{42}e^{14}, \frac{32}{831}\sqrt{291}e^{24},$ $\frac{32}{831}\sqrt{277}e^{35}, \frac{32}{277}\sqrt{5}e^{16}$	$(-\frac{16}{277}, \frac{80}{277}, -\frac{112}{831}, \frac{64}{277}, -\frac{160}{831}, \frac{48}{277}, \frac{144}{277}, -\frac{272}{831}, \frac{32}{277})$ $+\frac{32}{831}\sqrt{690}e^2 \otimes e_8$	{12357, 127, 368, 568}
9641:4	$0, 0, 0, \frac{96}{6383}\sqrt{95}e^{12}, \frac{48}{6383}\sqrt{1410}e^{13}, \frac{48}{6383}\sqrt{346}e^{24},$ $\frac{144}{6383}\sqrt{197}e^{14}, \frac{144}{6383}\sqrt{129}e^{35}, \frac{48}{6383}\sqrt{1085}e^{26}$	$(\frac{72}{6383}, -\frac{384}{6383}, \frac{912}{6383}, -\frac{24}{491}, \frac{984}{6383}, -\frac{696}{6383}, -\frac{240}{6383}, \frac{1896}{6383}, -\frac{1080}{6383})$ $+\frac{480}{6383}\sqrt{29}e^1 \otimes e_9 + \frac{96}{6383}\sqrt{687}e^3 \otimes e_7$	{1348, 3569}
9641:4	$0, 0, 0, \frac{32}{1481}\sqrt{561}e^{12}, \frac{8}{1481}\sqrt{8646}e^{13}, \frac{40}{1481}\sqrt{66}e^{24}, \frac{24}{1481}\sqrt{1551}e^{14},$ $\frac{8}{1481}\sqrt{3003}e^{35}, \frac{8}{1481}\sqrt{13299}e^{26}$	$(\frac{524}{1481}, -\frac{352}{1481}, -\frac{80}{1481}, \frac{172}{1481}, \frac{444}{1481}, -\frac{180}{1481}, \frac{696}{1481}, \frac{364}{1481}, -\frac{532}{1481})$ $+\frac{16}{1481}\sqrt{9966}e^1 \otimes e_9$	{1348, 1458, 3569, 69}
9641:4	$0, 0, 0, \frac{32}{4371}\sqrt{1605}e^{12}, \frac{8}{1457}\sqrt{13910}e^{13}, \frac{8}{4371}\sqrt{10914}e^{24},$ $\frac{8}{4371}\sqrt{117807}e^{14}, \frac{8}{4371}\sqrt{155899}e^{35}, \frac{48}{4371}\sqrt{36915}e^{26}$	$(-\frac{412}{1457}, \frac{264}{1457}, \frac{1744}{4371}, -\frac{148}{1457}, \frac{508}{4371}, \frac{116}{1457}, -\frac{560}{1457}, \frac{2252}{4371}, \frac{380}{1457})$ $+\frac{16}{4371}\sqrt{95658}e^3 \otimes e_7$	{123468, 156789, 2359, 47}
9641:4	$0, 0, 0, \frac{16}{903}\sqrt{741}e^{12}, \frac{8}{903}\sqrt{78}e^{13}, \frac{8}{903}\sqrt{4134}e^{24}, \frac{8}{903}\sqrt{663}e^{14},$ $\frac{8}{903}\sqrt{3913}e^{35}, \frac{8}{301}\sqrt{13}e^{26}$	$(-\frac{4}{301}, \frac{44}{301}, -\frac{136}{903}, \frac{40}{301}, -\frac{148}{903}, \frac{12}{43}, \frac{36}{301}, -\frac{284}{903}, \frac{128}{301})$ $+\frac{16}{903}\sqrt{2418}e^2 \otimes e_8$	{12356, 126, 378, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:4	$0, 0, 0, \frac{4}{143}\sqrt{66}e^{12}, \frac{4}{429}\sqrt{462}e^{13}, \frac{8}{429}\sqrt{231}e^{24}, \frac{4}{143}\sqrt{33}e^{14},$ $\frac{4}{39}\sqrt{13}e^{35}, \frac{20}{429}\sqrt{33}e^{26}$	$(-\frac{2}{13}, \frac{2}{13}, \frac{2}{39}, 0, -\frac{4}{39}, \frac{2}{13}, -\frac{2}{13}, -\frac{2}{39}, \frac{4}{13})$ $+\frac{20}{429}\sqrt{66}e^3 \otimes e_7 + \frac{4}{429}\sqrt{2442}e^2 \otimes e_8$	{134689, 2479}
9641:4	$0, 0, 0, \frac{36}{5369}\sqrt{1214}e^{12}, \frac{108}{5369}\sqrt{38}e^{13}, \frac{72}{5369}\sqrt{239}e^{24},$ $\frac{36}{5369}\sqrt{471}e^{14}, \frac{36}{5369}\sqrt{1113}e^{35}, \frac{36}{5369}\sqrt{1385}e^{26}$	$(\frac{684}{5369}, -\frac{216}{5369}, -\frac{774}{5369}, \frac{36}{413}, -\frac{90}{5369}, \frac{36}{767}, \frac{1152}{5369}, -\frac{864}{5369}, \frac{36}{5369})$ $+\frac{36}{5369}\sqrt{2030}e^1 \otimes e_9 + \frac{36}{5369}\sqrt{2658}e^2 \otimes e_8$	{234579, 2479}
9641:4	$0, 0, 0, \frac{80}{4299}\sqrt{663}e^{12}, \frac{8}{1433}\sqrt{14170}e^{13}, \frac{8}{1433}\sqrt{2990}e^{24},$ $\frac{24}{1433}\sqrt{455}e^{14}, \frac{8}{4299}\sqrt{93145}e^{35}, \frac{8}{1433}\sqrt{12805}e^{26}$	$(\frac{100}{1433}, -\frac{164}{1433}, \frac{904}{4299}, -\frac{64}{1433}, \frac{1204}{4299}, -\frac{228}{1433}, \frac{36}{1433}, \frac{2108}{4299}, -\frac{392}{1433})$ $+\frac{16}{4299}\sqrt{58890}e^3 \otimes e_9$	{1245789, 138, 23567, 469}
9641:5	$0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{22}e^{13}, \frac{1}{23}\sqrt{77}e^{14}, \frac{1}{23}\sqrt{165}e^{35},$ $\frac{4}{23}\sqrt{11}e^{15} + \frac{1}{23}\sqrt{187}e^{23}, \frac{11}{23}\sqrt{2}e^{16}$	$(-\frac{1}{23}, -\frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, \frac{5}{23}, -\frac{4}{23}, \frac{11}{23}, \frac{4}{23}, -\frac{5}{23})$ $+\frac{1}{23}\sqrt{429}e^3 \otimes e_9$	{1245789, 235}
9641:5	$0, 0, 0, \frac{387}{3997}\sqrt{46}e^{12}, \frac{43}{3997}\sqrt{3518}e^{13}, \frac{43}{3997}\sqrt{3086}e^{14},$ $\frac{516}{3997}\sqrt{22}e^{35}, \frac{43}{3997}\sqrt{4574}e^{15} + \frac{86}{3997}\sqrt{766}e^{23}, \frac{86}{3997}\sqrt{461}e^{16}$	$(\frac{43}{571}, \frac{86}{571}, -\frac{774}{3997}, \frac{129}{571}, -\frac{473}{3997}, \frac{172}{571}, -\frac{1247}{3997}, -\frac{172}{3997}, \frac{215}{571})$ $+\frac{86}{3997}\sqrt{1707}e^2 \otimes e_7$	{378, 57}
9641:5	$0, 0, 0, \frac{5}{1271}\sqrt{2730}e^{12}, \frac{5}{1271}\sqrt{5478}e^{13}, \frac{5}{1271}\sqrt{3954}e^{14}, \frac{30}{1271}\sqrt{11}e^{35},$ $\frac{5}{1271}\sqrt{5610}e^{15} + \frac{10}{1271}\sqrt{1299}e^{23}, \frac{60}{1271}\sqrt{37}e^{16}$	$(-\frac{25}{1271}, -\frac{50}{1271}, \frac{110}{1271}, \frac{75}{1271}, \frac{85}{1271}, -\frac{100}{1271}, \frac{195}{1271}, \frac{60}{1271}, -\frac{125}{1271})$ $+\frac{10}{1271}\sqrt{1713}e^2 \otimes e_9$	{134589, 149}
9641:6	$0, 0, 0, \frac{19}{2077}\sqrt{2778}e^{12}, \frac{247}{2077}\sqrt{30}e^{13}, \frac{19}{2077}\sqrt{690}e^{24}, \frac{494}{2077}\sqrt{6}e^{35},$ $\frac{38}{2077}\sqrt{66}e^{15} + \frac{19}{2077}\sqrt{30}e^{23}, \frac{247}{2077}\sqrt{30}e^{26}$	$(-\frac{76}{2077}, -\frac{152}{2077}, \frac{551}{2077}, -\frac{228}{2077}, \frac{475}{2077}, -\frac{380}{2077}, \frac{1026}{2077}, \frac{399}{2077}, -\frac{532}{2077})$ $+\frac{19}{2077}\sqrt{10362}e^3 \otimes e_9$	{1378, 469}
9641:6	$0, 0, 0, \frac{10}{1073}\sqrt{42}e^{12}, \frac{20}{1073}\sqrt{417}e^{13}, \frac{20}{1073}\sqrt{195}e^{24}, \frac{60}{1073}\sqrt{7}e^{35},$ $\frac{120}{1073}\sqrt{11}e^{15} + \frac{30}{1073}\sqrt{203}e^{23}, \frac{20}{1073}\sqrt{417}e^{26}$	$(-\frac{25}{1073}, -\frac{50}{1073}, \frac{140}{1073}, -\frac{75}{1073}, \frac{115}{1073}, -\frac{125}{1073}, \frac{255}{1073}, \frac{90}{1073}, -\frac{175}{1073})$ $+\frac{10}{1073}\sqrt{2706}e^1 \otimes e_9$	{123678, 12567, 234589, 249}
9641:6	$0, 0, 0, \frac{10}{1073}\sqrt{42}e^{12}, \frac{20}{1073}\sqrt{417}e^{13}, \frac{20}{1073}\sqrt{195}e^{24}, \frac{60}{1073}\sqrt{7}e^{35},$ $\frac{120}{1073}\sqrt{11}e^{15} + \frac{30}{1073}\sqrt{203}e^{23}, \frac{20}{1073}\sqrt{417}e^{26}$	$(-\frac{25}{1073}, -\frac{50}{1073}, \frac{140}{1073}, -\frac{75}{1073}, \frac{115}{1073}, -\frac{125}{1073}, \frac{255}{1073}, \frac{90}{1073}, -\frac{175}{1073})$ $-\frac{10}{1073}\sqrt{2706}e^1 \otimes e_9$	{123678, 12567, 234589, 249}
9641:6	$0, 0, 0, \frac{1}{127}\sqrt{4326}e^{12}, \frac{4}{127}\sqrt{42}e^{13}, \frac{4}{127}\sqrt{266}e^{24}, \frac{12}{127}\sqrt{35}e^{35},$ $\frac{28}{127}\sqrt{3}e^{15} + \frac{1}{127}\sqrt{322}e^{23}, \frac{1}{127}\sqrt{2814}e^{26}$	$(\frac{7}{127}, \frac{14}{127}, -\frac{21}{127}, \frac{21}{127}, -\frac{14}{127}, \frac{35}{127}, -\frac{35}{127}, -\frac{7}{127}, \frac{49}{127})$ $+\frac{3}{127}\sqrt{1162}e^2 \otimes e_7$	{123568, 126}
9641:9	$0, 0, 0, \frac{19}{146}\sqrt{15}e^{12}, \frac{2}{73}\sqrt{1045}e^{13}, \frac{1}{146}\sqrt{11590}e^{14}, \frac{1}{146}\sqrt{13110}e^{24},$ $\frac{1}{73}\sqrt{2185}e^{15}, \frac{1}{146}\sqrt{15}e^{16}$	$(\frac{2}{73}, -\frac{41}{292}, \frac{29}{73}, -\frac{33}{292}, \frac{31}{73}, -\frac{25}{292}, -\frac{37}{146}, \frac{33}{73}, -\frac{17}{292})$ $+\frac{3}{73}\sqrt{665}e^3 \otimes e_7$	{1234689, 138, 267, 479}
9641:9	$0, 0, 0, \frac{2}{1207}\sqrt{98427}e^{12}, \frac{1}{1207}\sqrt{263998}e^{13}, \frac{1}{1207}\sqrt{520366}e^{14},$ $\frac{2}{1207}\sqrt{196854}e^{24}, \frac{1}{1207}\sqrt{785890}e^{15}, \frac{1}{1207}\sqrt{389130}e^{16}$	$(-\frac{169}{1207}, \frac{433}{1207}, \frac{8}{1207}, \frac{264}{1207}, -\frac{161}{1207}, \frac{95}{1207}, \frac{41}{1207}, -\frac{330}{1207}, -\frac{74}{1207})$ $+\frac{6}{1207}\sqrt{43491}e^2 \otimes e_8$	{1257, 1346789, 249, 3568}
9641:9	$0, 0, 0, \frac{3}{40}\sqrt{87}e^{12}, \frac{9}{40}\sqrt{6}e^{13}, \frac{3}{20}\sqrt{6}e^{14}, \frac{9}{20}\sqrt{2}e^{24},$ $\frac{9}{40}\sqrt{6}e^{15}, \frac{3}{40}\sqrt{87}e^{16}$	$(-\frac{9}{40}, \frac{27}{80}, \frac{3}{80}, \frac{3}{80}, -\frac{9}{80}, \frac{9}{20}, -\frac{3}{40}, -\frac{27}{80})$ $+\frac{3}{20}\sqrt{51}e^2 \otimes e_9$	{1235678, 1267, 1345789, 1479}
9641:9	$0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, \frac{4}{123}\sqrt{74}e^{14}, \frac{4}{123}\sqrt{61}e^{24},$ $\frac{20}{123}\sqrt{3}e^{15}, \frac{4}{41}\sqrt{5}e^{16}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, \frac{28}{123}, -\frac{20}{123}, \frac{8}{41})$ $+\frac{4}{123}\sqrt{206}e^2 \otimes e_8 + \frac{4}{123}\sqrt{235}e^1 \otimes e_3$	{14789, 23469}
9641:9	$0, 0, 0, \frac{9}{245}\sqrt{37}e^{12}, \frac{36}{245}\sqrt{6}e^{13}, \frac{9}{245}\sqrt{86}e^{14}, \frac{72}{245}\sqrt{3}e^{24},$ $\frac{9}{245}\sqrt{21}e^{15}, \frac{9}{245}\sqrt{37}e^{16}$	$(-\frac{27}{245}, \frac{18}{245}, \frac{18}{49}, -\frac{9}{245}, \frac{9}{35}, -\frac{36}{245}, \frac{9}{245}, \frac{36}{245}, -\frac{9}{35})$ $+\frac{27}{49}e^3 \otimes e_7 + \frac{9}{245}\sqrt{214}e^2 \otimes e_9$	{23458, 35689}
9641:9	$0, 0, 0, \frac{8}{1195}\sqrt{7638}e^{12}, \frac{2}{1195}\sqrt{257146}e^{13}, \frac{16}{1195}\sqrt{1273}e^{14},$ $\frac{1}{1195}\sqrt{282606}e^{24}, \frac{2}{1195}\sqrt{47101}e^{15}, \frac{1}{1195}\sqrt{771438}e^{16}$	$(-\frac{256}{1195}, \frac{286}{1195}, \frac{791}{1195}, \frac{6}{239}, \frac{107}{239}, -\frac{226}{1195}, \frac{316}{1195}, \frac{279}{1195}, -\frac{482}{1195})$ $+\frac{6}{1195}\sqrt{70015}e^3 \otimes e_9$	{123468, 159, 2679, 34578}
9641:9	$0, 0, 0, \frac{18}{1565}\sqrt{298}e^{12}, \frac{9}{1565}\sqrt{1074}e^{13}, \frac{63}{1565}\sqrt{22}e^{14}, \frac{9}{1565}\sqrt{174}e^{24},$ $\frac{18}{1565}\sqrt{141}e^{15}, \frac{18}{1565}\sqrt{298}e^{16}$	$(-\frac{27}{1565}, \frac{117}{1565}, -\frac{108}{1565}, \frac{18}{313}, -\frac{27}{313}, \frac{63}{1565}, \frac{207}{1565}, -\frac{162}{1565}, \frac{36}{1565})$ $+\frac{27}{1565}\sqrt{170}e^1 \otimes e_3 + \frac{36}{1565}\sqrt{85}e^2 \otimes e_9$	{1267, 1479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:9	$0, 0, 0, \frac{6}{295}\sqrt{978}e^{12}, \frac{1}{295}\sqrt{36186}e^{13}, \frac{1}{295}\sqrt{51182}e^{14}, \frac{1}{295}\sqrt{12714}e^{24},$ $\frac{2}{295}\sqrt{2119}e^{15}, \frac{6}{295}\sqrt{978}e^{16}$	$(\frac{1}{5}, -\frac{29}{295}, -\frac{104}{295}, \frac{6}{59}, -\frac{9}{59}, \frac{89}{295}, \frac{1}{295}, \frac{14}{295}, \frac{148}{295})$ $+\frac{1}{295}\sqrt{83130}e^1 \otimes e_3$	{126, 149, 2346789, 378}
9641:9	$0, 0, 0, \frac{30}{491}\sqrt{19}e^{12}, \frac{10}{491}\sqrt{471}e^{13}, \frac{10}{491}\sqrt{519}e^{14}, \frac{5}{491}\sqrt{2730}e^{24},$ $\frac{30}{491}\sqrt{74}e^{15}, \frac{45}{491}\sqrt{6}e^{16}$	$(-\frac{90}{491}, \frac{150}{491}, \frac{105}{491}, \frac{60}{491}, \frac{15}{491}, -\frac{30}{491}, \frac{210}{491}, -\frac{75}{491}, -\frac{120}{491})$ $+\frac{10}{491}\sqrt{1266}e^2 \otimes e_8 + \frac{10}{491}\sqrt{681}e^3 \otimes e_9$	{249, 3568}
9641:10	$0, 0, 0, \frac{6}{509}\sqrt{429}e^{12}, \frac{27}{509}\sqrt{110}e^{13}, \frac{3}{509}\sqrt{330}e^{24}, \frac{18}{509}\sqrt{143}e^{14},$ $\frac{27}{509}\sqrt{110}e^{15}, \frac{3}{509}\sqrt{10626}e^{26}$	$(\frac{135}{509}, -\frac{99}{509}, -\frac{42}{509}, \frac{36}{509}, \frac{93}{509}, -\frac{63}{509}, \frac{171}{509}, \frac{228}{509}, -\frac{162}{509})$ $+\frac{24}{509}\sqrt{429}e^1 \otimes e_9$	{123678, 12567, 2345789, 2479}
9641:10	$0, 0, 0, \frac{5}{1431}\sqrt{40782}e^{12}, \frac{1}{1431}\sqrt{1508934}e^{13}, \frac{2}{1431}\sqrt{98071}e^{24},$ $\frac{5}{1431}\sqrt{29130}e^{14}, \frac{1}{1431}\sqrt{732134}e^{15}, \frac{2}{1431}\sqrt{316546}e^{26}$	$(-\frac{23}{1431}, -\frac{98}{1431}, \frac{218}{477}, -\frac{121}{1431}, \frac{631}{1431}, -\frac{73}{477}, -\frac{16}{159}, \frac{608}{1431}, -\frac{317}{1431})$ $+\frac{20}{1431}\sqrt{5826}e^3 \otimes e_9$	{124579, 138, 235678, 469}
9641:10	$0, 0, 0, \frac{4}{469}\sqrt{1571}e^{12}, \frac{1}{1407}\sqrt{1171966}e^{13}, \frac{1}{1407}\sqrt{109970}e^{24},$ $\frac{4}{469}\sqrt{7855}e^{14}, \frac{1}{1407}\sqrt{34562}e^{15}, \frac{1}{1407}\sqrt{342478}e^{26}$	$(-\frac{395}{1407}, \frac{253}{1407}, \frac{1034}{1407}, -\frac{142}{1407}, \frac{213}{469}, \frac{37}{469}, -\frac{179}{469}, \frac{244}{1407}, \frac{52}{201})$ $+\frac{16}{469}\sqrt{1571}e^3 \otimes e_7$	{12346, 156789, 2359, 478}
9641:10	$0, 0, 0, \frac{2}{1503}\sqrt{27573}e^{12}, \frac{7}{1503}\sqrt{606}e^{13}, \frac{1}{1503}\sqrt{892234}e^{24},$ $\frac{2}{1503}\sqrt{137865}e^{14}, \frac{11}{1503}\sqrt{7070}e^{15}, \frac{2}{1503}\sqrt{26866}e^{26}$	$(-\frac{227}{1503}, \frac{319}{1503}, \frac{22}{501}, \frac{92}{1503}, -\frac{161}{1503}, \frac{137}{501}, -\frac{15}{167}, -\frac{388}{1503}, \frac{730}{1503})$ $+\frac{8}{1503}\sqrt{27573}e^2 \otimes e_8$	{1256, 1346789, 249, 3578}
9641:10	$0, 0, 0, \frac{18}{349}\sqrt{37}e^{12}, \frac{9}{349}\sqrt{26}e^{13}, \frac{9}{349}\sqrt{146}e^{24}, \frac{9}{349}\sqrt{10}e^{14},$ $\frac{54}{349}\sqrt{5}e^{15}, \frac{90}{349}e^{26}$	$(\frac{9}{349}, \frac{27}{349}, -\frac{72}{349}, \frac{36}{349}, -\frac{63}{349}, \frac{63}{349}, \frac{45}{349}, -\frac{54}{349}, \frac{90}{349})$ $+\frac{36}{349}\sqrt{23}e^2 \otimes e_8 + \frac{45}{349}\sqrt{10}e^1 \otimes e_3$	{14689, 23479}
9641:10	$0, 0, 0, \frac{1}{7}\sqrt{34}e^{12}, \frac{1}{21}\sqrt{170}e^{13}, \frac{2}{21}\sqrt{17}e^{24}, \frac{1}{7}\sqrt{34}e^{14},$ $\frac{1}{21}\sqrt{34}e^{15}, \frac{2}{21}\sqrt{17}e^{26}$	$(\frac{1}{3}, -\frac{2}{21}, -\frac{10}{21}, \frac{5}{21}, -\frac{1}{7}, \frac{1}{7}, \frac{4}{7}, \frac{4}{21}, \frac{1}{21})$ $+\frac{2}{7}\sqrt{17}e^1 \otimes e_3$	{1278, 1489, 234679, 36}
9641:10	$0, 0, 0, \frac{18}{763}\sqrt{55}e^{12}, \frac{12}{763}\sqrt{267}e^{13}, \frac{6}{763}\sqrt{1005}e^{24}, \frac{3}{763}\sqrt{3810}e^{14},$ $\frac{18}{763}\sqrt{130}e^{15}, \frac{9}{763}\sqrt{582}e^{26}$	$(-\frac{90}{763}, \frac{54}{763}, \frac{153}{763}, -\frac{36}{763}, \frac{9}{109}, \frac{18}{763}, -\frac{18}{109}, -\frac{763}{763}, \frac{72}{763})$ $+\frac{6}{763}\sqrt{1371}e^3 \otimes e_9 + \frac{6}{763}\sqrt{1677}e^2 \otimes e_8$	{124579, 138}
9641:10	$0, 0, 0, \frac{18}{349}\sqrt{2}e^{12}, \frac{9}{1745}\sqrt{4530}e^{13}, \frac{9}{349}\sqrt{22}e^{24}, \frac{18}{1745}\sqrt{915}e^{14},$ $\frac{9}{1745}\sqrt{2490}e^{15}, \frac{9}{1745}\sqrt{3710}e^{26}$	$(\frac{9}{349}, -\frac{27}{349}, \frac{72}{349}, -\frac{18}{349}, \frac{81}{349}, -\frac{45}{349}, -\frac{9}{349}, \frac{90}{349}, -\frac{72}{349})$ $+\frac{18}{1745}\sqrt{2330}e^1 \otimes e_9 + \frac{54}{1745}\sqrt{170}e^3 \otimes e_7$	{1348, 35689}
9641:10	$0, 0, 0, \frac{18}{8005}\sqrt{221}e^{12}, \frac{9}{8005}\sqrt{2910}e^{13}, \frac{9}{8005}\sqrt{3482}e^{24}, \frac{18}{8005}\sqrt{273}e^{14},$ $\frac{9}{8005}\sqrt{5406}e^{15}, \frac{9}{8005}\sqrt{5042}e^{26}$	$(\frac{207}{8005}, -\frac{27}{8005}, -\frac{522}{8005}, \frac{36}{1601}, -\frac{63}{1601}, \frac{153}{8005}, \frac{387}{8005}, -\frac{108}{8005}, \frac{126}{8005})$ $+\frac{144}{8005}\sqrt{26}e^1 \otimes e_9 + \frac{216}{8005}\sqrt{13}e^2 \otimes e_8$	{1256, 249}
9641:11	$0, 0, 0, \frac{6}{233}\sqrt{1005}e^{12}, \frac{78}{233}\sqrt{3}e^{13}, \frac{18}{233}\sqrt{58}e^{14}, \frac{12}{233}\sqrt{183}e^{15},$ $\frac{12}{233}\sqrt{219}e^{35}, \frac{12}{233}\sqrt{30}e^{16} + \frac{6}{233}\sqrt{201}e^{23}$	$(-\frac{9}{233}, \frac{99}{233}, -\frac{27}{233}, \frac{90}{233}, -\frac{36}{233}, \frac{81}{233}, -\frac{45}{233}, -\frac{63}{233}, \frac{72}{233})$ $+\frac{6}{233}\sqrt{1770}e^2 \otimes e_8$	{123567, 58}
9641:11	$0, 0, 0, \frac{230}{1877}\sqrt{5}e^{12}, \frac{230}{1877}e^{13}, \frac{92}{1877}\sqrt{83}e^{14}, \frac{46}{1877}\sqrt{1158}e^{15},$ $\frac{46}{1877}\sqrt{670}e^{35}, \frac{552}{1877}\sqrt{5}e^{16} + \frac{46}{1877}\sqrt{1039}e^{23}$	$(-\frac{69}{1877}, \frac{713}{1877}, -\frac{207}{1877}, \frac{644}{1877}, -\frac{276}{1877}, \frac{575}{1877}, -\frac{345}{1877}, -\frac{483}{1877}, \frac{506}{1877})$ $+\frac{598}{1877}\sqrt{10}e^2 \otimes e_7$	{134679, 2489}
9641:12	$0, 0, 0, \frac{64}{1141}\sqrt{57}e^{12}, \frac{16}{1141}\sqrt{978}e^{13}, \frac{16}{1141}\sqrt{330}e^{24},$ $\frac{48}{1141}\sqrt{141}e^{14} + \frac{96}{1141}\sqrt{47}e^{23}, \frac{16}{1141}\sqrt{753}e^{35}, \frac{16}{1141}\sqrt{1401}e^{26}$	$(\frac{88}{1141}, -\frac{128}{1141}, \frac{176}{1141}, -\frac{40}{1141}, \frac{264}{1141}, -\frac{24}{163}, \frac{48}{1141}, \frac{440}{1141}, -\frac{296}{1141})$ $+\frac{32}{1141}\sqrt{714}e^1 \otimes e_9$	{123678, 234579}
9641:12	$0, 0, 0, \frac{112}{3263}\sqrt{201}e^{12}, \frac{1512}{3263}\sqrt{2}e^{13}, \frac{168}{3263}\sqrt{30}e^{24},$ $\frac{168}{3263}\sqrt{51}e^{14} + \frac{112}{3263}\sqrt{38}e^{23}, \frac{56}{3263}\sqrt{1037}e^{35}, \frac{168}{3263}\sqrt{145}e^{26}$	$(\frac{308}{3263}, -\frac{420}{3263}, \frac{616}{3263}, -\frac{112}{3263}, \frac{924}{3263}, -\frac{532}{3263}, \frac{196}{3263}, \frac{1540}{3263}, -\frac{952}{3263})$ $+\frac{112}{3263}\sqrt{690}e^3 \otimes e_9$	{1245789, 469}
9641:12	$0, 0, 0, \frac{16}{497}\sqrt{231}e^{12}, \frac{8}{497}\sqrt{42}e^{13}, \frac{8}{497}\sqrt{1302}e^{24},$ $\frac{8}{71}\sqrt{3}e^{14} + \frac{16}{497}\sqrt{70}e^{23}, \frac{8}{497}\sqrt{1253}e^{35}, \frac{24}{497}\sqrt{105}e^{26}$	$(-\frac{4}{71}, \frac{12}{71}, -\frac{8}{71}, \frac{8}{71}, -\frac{12}{71}, \frac{20}{71}, \frac{4}{71}, -\frac{20}{71}, \frac{32}{71})$ $+\frac{16}{497}\sqrt{714}e^2 \otimes e_8$	{1456789, 249}
9641:13	$0, 0, 0, -\frac{108}{1085}\sqrt{7}e^{12}, \frac{54}{1085}\sqrt{101}e^{13}, \frac{27}{1085}\sqrt{262}e^{14}, \frac{27}{1085}\sqrt{546}e^{15},$ $\frac{27}{1085}\sqrt{314}e^{24} + \frac{27}{1085}\sqrt{1010}e^{35}, \frac{54}{1085}\sqrt{202}e^{16}$	$(-\frac{243}{1085}, \frac{54}{155}, \frac{54}{155}, \frac{27}{217}, \frac{27}{217}, -\frac{108}{1085}, -\frac{108}{1085}, \frac{513}{1085}, -\frac{351}{1085})$ $+\frac{108}{1085}\sqrt{115}e^3 \otimes e_9$	{1245789, 1368, 235, 4679, 1245789, 1368, 235, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:13	$0, 0, 0, \frac{108}{1085} \sqrt{7}e^{12}, \frac{54}{1085} \sqrt{101}e^{13}, \frac{27}{1085} \sqrt{262}e^{14}, \frac{27}{1085} \sqrt{546}e^{15},$ $\frac{27}{1085} \sqrt{314}e^{24} + \frac{27}{1085} \sqrt{1010}e^{35}, \frac{54}{1085} \sqrt{202}e^{16}$	$(- \frac{243}{1085}, \frac{54}{155}, \frac{54}{155}, \frac{27}{217}, \frac{27}{217}, - \frac{108}{1085}, - \frac{108}{1085}, \frac{513}{1085}, - \frac{351}{1085})$ $+ \frac{108}{1085} \sqrt{115}e^3 \otimes e_9$	{1245789, 1368, 235, 4679, 1245789, 1368, 235, 4679}
9641:15	$0, 0, 0, \frac{58}{1789} \sqrt{47}e^{12}, \frac{29}{1789} \sqrt{454}e^{13}, \frac{29}{1789} \sqrt{1506}e^{24},$ $\frac{29}{1789} \sqrt{1430}e^{15}, \frac{58}{1789} \sqrt{235}e^{14} + \frac{58}{1789} \sqrt{10}e^{35}, \frac{29}{1789} \sqrt{1130}e^{26}$	$(- \frac{261}{1789}, \frac{377}{1789}, \frac{58}{1789}, \frac{116}{1789}, - \frac{203}{1789}, \frac{493}{1789}, - \frac{464}{1789}, - \frac{145}{1789}, \frac{870}{1789})$ $+ \frac{58}{1789} \sqrt{742}e^2 \otimes e_7$	{1346789, 249}
9641:15	$0, 0, 0, \frac{86}{6931} \sqrt{1207}e^{12}, \frac{86}{6931} \sqrt{2015}e^{13}, \frac{2150}{6931} e^{24}, \frac{86}{6931} \sqrt{551}e^{15},$ $\frac{129}{6931} \sqrt{610}e^{14} + \frac{86}{6931} \sqrt{1429}e^{35}, \frac{43}{6931} \sqrt{6230}e^{26}$	$(\frac{1032}{6931}, - \frac{946}{6931}, \frac{43}{6931}, \frac{86}{6931}, \frac{1075}{6931}, - \frac{860}{6931}, \frac{2107}{6931}, \frac{1118}{6931}, - \frac{1806}{6931})$ $+ \frac{86}{6931} \sqrt{2963}e^3 \otimes e_9$	{124589, 469}
9641:15	$0, 0, 0, \frac{126}{7093} \sqrt{161}e^{12}, \frac{693}{7093} \sqrt{30}e^{13}, \frac{63}{7093} \sqrt{70}e^{24},$ $\frac{63}{7093} \sqrt{4110}e^{15}, \frac{126}{7093} \sqrt{663}e^{14} + \frac{756}{7093} \sqrt{10}e^{35}, \frac{63}{7093} \sqrt{4514}e^{26}$	$(\frac{1575}{7093}, - \frac{1323}{7093}, \frac{126}{7093}, \frac{252}{7093}, \frac{1701}{7093}, - \frac{1071}{7093}, \frac{3276}{7093}, \frac{1827}{7093}, - \frac{2394}{7093})$ $+ \frac{252}{7093} \sqrt{734}e^1 \otimes e_9$	{1347, 145}
9641:17	$0, 0, 0, \frac{7}{468} \sqrt{1335}e^{12}, \frac{7}{468} \sqrt{942}e^{13}, \frac{7}{468} \sqrt{546}e^{14}, \frac{7}{468} \sqrt{165}e^{35},$ $\frac{7}{468} \sqrt{1590}e^{15} + \frac{7}{234} \sqrt{321}e^{24}, \frac{7}{468} \sqrt{1335}e^{16}$	$(- \frac{49}{468}, \frac{7}{104}, \frac{28}{117}, - \frac{35}{936}, \frac{7}{52}, - \frac{133}{936}, \frac{175}{468}, \frac{7}{234}, - \frac{77}{312})$ $+ \frac{7}{468} \sqrt{2418}e^2 \otimes e_9$	{123568, 134589}
9641:17	$0, 0, 0, \frac{62}{2861} \sqrt{190}e^{12}, \frac{1612}{2861} e^{13}, \frac{62}{2861} \sqrt{23}e^{14}, \frac{62}{2861} \sqrt{1162}e^{35},$ $\frac{1550}{2861} e^{15} + \frac{1178}{2861} e^{24}, \frac{620}{2861} \sqrt{10}e^{16}$	$(- \frac{403}{2861}, \frac{310}{2861}, \frac{1023}{2861}, - \frac{93}{2861}, \frac{620}{2861}, - \frac{496}{2861}, \frac{1643}{2861}, \frac{217}{2861}, - \frac{899}{2861})$ $+ \frac{124}{2861} \sqrt{595}e^3 \otimes e_9$	{1367, 4689}
9641:17	$0, 0, 0, \frac{64}{2831} \sqrt{395}e^{12}, \frac{64}{2831} \sqrt{166}e^{13}, \frac{32}{2831} \sqrt{438}e^{14},$ $\frac{32}{2831} \sqrt{1477}e^{35}, \frac{1280}{2831} e^{15} + \frac{352}{2831} \sqrt{11}e^{24}, \frac{32}{2831} \sqrt{355}e^{16}$	$(\frac{272}{2831}, - \frac{80}{2831}, - \frac{432}{2831}, \frac{192}{2831}, - \frac{160}{2831}, \frac{464}{2831}, - \frac{592}{2831}, \frac{112}{2831}, \frac{736}{2831})$ $+ \frac{1120}{2831} \sqrt{2}e^2 \otimes e_7$	{123568, 57}
9641:18	$0, 0, 0, \frac{2}{31} \sqrt{57}e^{12}, \frac{1}{31} \sqrt{874}e^{13}, \frac{1}{31} \sqrt{646}e^{14}, \frac{6}{31} \sqrt{19}e^{24},$ $\frac{2}{31} \sqrt{133}e^{15} + \frac{2}{31} \sqrt{57}e^{23}, \frac{3}{31} \sqrt{38}e^{16}$	$(- \frac{1}{31}, - \frac{2}{31}, \frac{14}{31}, - \frac{3}{31}, \frac{13}{31}, - \frac{4}{31}, - \frac{5}{31}, \frac{12}{31}, - \frac{5}{31})$ $+ \frac{3}{31} \sqrt{114}e^3 \otimes e_7$	{1234689, 267}
9641:18	$0, 0, 0, \frac{2}{31} \sqrt{57}e^{12}, \frac{2}{31} \sqrt{38}e^{13}, \frac{2}{31} \sqrt{95}e^{14}, \frac{3}{31} \sqrt{38}e^{24},$ $\frac{1}{31} \sqrt{494}e^{15} + \frac{1}{31} \sqrt{798}e^{23}, \frac{6}{31} \sqrt{19}e^{16}$	$(- \frac{1}{31}, - \frac{2}{31}, \frac{14}{31}, - \frac{3}{31}, \frac{13}{31}, - \frac{4}{31}, - \frac{5}{31}, \frac{12}{31}, - \frac{5}{31})$ $+ \frac{3}{31} \sqrt{114}e^3 \otimes e_9$	{135678, 4569}
9641:18	$0, 0, 0, \frac{3}{775} \sqrt{1662}e^{12}, \frac{9}{775} \sqrt{426}e^{13}, \frac{3}{775} \sqrt{2922}e^{14}, \frac{18}{775} \sqrt{19}e^{24},$ $\frac{9}{775} \sqrt{426}e^{15} + \frac{18}{775} \sqrt{105}e^{23}, \frac{12}{775} \sqrt{222}e^{16}$	$(- \frac{9}{775}, - \frac{18}{775}, \frac{78}{775}, - \frac{27}{775}, \frac{69}{775}, - \frac{36}{775}, - \frac{9}{155}, \frac{12}{155}, - \frac{9}{155})$ $+ \frac{6}{775} \sqrt{1059}e^2 \otimes e_9$	{134589, 149}
9641:19	$0, 0, 0, \frac{23}{781} \sqrt{582}e^{12}, \frac{23}{781} \sqrt{878}e^{13}, \frac{46}{781} \sqrt{62}e^{24}, \frac{23}{781} \sqrt{438}e^{14},$ $\frac{23}{781} \sqrt{442}e^{15} + \frac{46}{781} \sqrt{13}e^{23}, \frac{46}{781} \sqrt{183}e^{26}$	$(- \frac{23}{781}, - \frac{46}{781}, \frac{368}{781}, - \frac{69}{781}, \frac{345}{781}, - \frac{115}{781}, - \frac{92}{781}, \frac{322}{781}, - \frac{161}{781})$ $+ \frac{46}{781} \sqrt{327}e^3 \otimes e_9$	{124579, 235678}
9641:19	$0, 0, 0, \frac{148}{2611} \sqrt{30}e^{12}, \frac{74}{2611} \sqrt{274}e^{13}, \frac{74}{2611} \sqrt{13}e^{24}, \frac{37}{2611} \sqrt{3858}e^{14},$ $\frac{74}{2611} \sqrt{677}e^{15} + \frac{74}{2611} \sqrt{1043}e^{23}, \frac{111}{2611} \sqrt{158}e^{26}$	$(- \frac{74}{2611}, - \frac{148}{2611}, \frac{1073}{2611}, - \frac{222}{2611}, \frac{999}{2611}, - \frac{370}{2611}, - \frac{296}{2611}, \frac{925}{2611}, - \frac{74}{373})$ $+ \frac{74}{2611} \sqrt{1209}e^3 \otimes e_7$	{134589, 368}
9641:20	$0, 0, 0, \frac{384}{3329} \sqrt{33}e^{12}, \frac{128}{3329} \sqrt{30}e^{13}, \frac{320}{3329} \sqrt{6}e^{14}, \frac{64}{3329} \sqrt{1133}e^{24},$ $\frac{1216}{3329} \sqrt{3}e^{35}, \frac{64}{3329} \sqrt{195}e^{16} + \frac{256}{3329} \sqrt{5}e^{23}$	$(- \frac{160}{3329}, \frac{928}{3329}, - \frac{480}{3329}, \frac{768}{3329}, - \frac{640}{3329}, \frac{608}{3329}, \frac{1696}{3329}, - \frac{1120}{3329}, \frac{448}{3329})$ $+ \frac{64}{3329} \sqrt{2766}e^2 \otimes e_8$	{12357, 568}
9641:20	$0, 0, 0, \frac{7}{100} \sqrt{15}e^{12}, \frac{7}{100} \sqrt{6}e^{13}, \frac{7}{100} \sqrt{51}e^{14}, \frac{7}{100} \sqrt{86}e^{24},$ $\frac{7}{100} \sqrt{69}e^{35}, \frac{7}{100} \sqrt{15}e^{16} + \frac{7}{100} \sqrt{7}e^{23}$	$(\frac{7}{100}, - \frac{7}{40}, \frac{21}{100}, - \frac{21}{200}, \frac{7}{25}, - \frac{7}{200}, - \frac{7}{25}, \frac{49}{100}, \frac{7}{200})$ $- \frac{21}{100} \sqrt{19}e^3 \otimes e_7$	{1234689, 138, 267, 479}
9641:20	$0, 0, 0, \frac{7}{100} \sqrt{15}e^{12}, \frac{7}{100} \sqrt{6}e^{13}, \frac{7}{100} \sqrt{51}e^{14}, \frac{7}{100} \sqrt{86}e^{24},$ $\frac{7}{100} \sqrt{69}e^{35}, \frac{7}{100} \sqrt{15}e^{16} + \frac{7}{100} \sqrt{7}e^{23}$	$(\frac{7}{100}, - \frac{7}{40}, \frac{21}{100}, - \frac{21}{200}, \frac{7}{25}, - \frac{7}{200}, - \frac{7}{25}, \frac{49}{100}, \frac{7}{200})$ $+ \frac{21}{100} \sqrt{19}e^3 \otimes e_7$	{1234689, 138, 267, 479}
9641:21	$0, 0, 0, \frac{90}{5437} \sqrt{377}e^{12}, \frac{45}{5437} \sqrt{3486}e^{13}, \frac{45}{5437} \sqrt{938}e^{24},$ $\frac{90}{5437} \sqrt{663}e^{14} + \frac{540}{5437} \sqrt{26}e^{23}, \frac{45}{5437} \sqrt{2238}e^{15}, \frac{45}{5437} \sqrt{4370}e^{26}$	$(\frac{495}{5437}, - \frac{675}{5437}, \frac{990}{5437}, - \frac{180}{5437}, \frac{1485}{5437}, - \frac{855}{5437}, \frac{315}{5437}, \frac{1980}{5437}, - \frac{1530}{5437})$ $+ \frac{360}{5437} \sqrt{143}e^1 \otimes e_9$	{123678, 2345789}
9641:21	$0, 0, 0, \frac{94}{5461} \sqrt{13}e^{12}, \frac{47}{5461} \sqrt{1006}e^{13}, \frac{47}{5461} \sqrt{4074}e^{24},$ $\frac{1222}{5461} \sqrt{5}e^{14} + \frac{188}{5461} \sqrt{130}e^{23}, \frac{235}{5461} \sqrt{190}e^{15}, \frac{47}{5461} \sqrt{2930}e^{26}$	$(- \frac{329}{5461}, \frac{893}{5461}, - \frac{658}{5461}, \frac{564}{5461}, - \frac{987}{5461}, \frac{1457}{5461}, \frac{235}{5461}, - \frac{1316}{5461}, \frac{2350}{5461})$ $+ \frac{376}{5461} \sqrt{143}e^2 \otimes e_8$	{1346789, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:21	$0, 0, 0, \frac{265}{5149} \sqrt{182}e^{12}, \frac{159}{5149} \sqrt{574}e^{13}, \frac{106}{5149} \sqrt{179}e^{24},$ $\frac{265}{5149} \sqrt{138}e^{14} + \frac{1060}{5149} \sqrt{7}e^{23}, \frac{53}{5149} \sqrt{3166}e^{15}, \frac{212}{5149} \sqrt{251}e^{26}$	$(\frac{583}{5149}, -\frac{742}{5149}, \frac{1166}{5149}, -\frac{159}{5149}, \frac{1749}{5149}, -\frac{901}{5149}, \frac{424}{5149}, \frac{2332}{5149}, -\frac{1643}{5149})$ $+ \frac{1060}{5149} \sqrt{22}e^3 \otimes e_9$	{124579, 469}
9641:24	$0, 0, 0, \frac{42}{1373} \sqrt{79}e^{12}, \frac{21}{1373} \sqrt{1634}e^{13}, \frac{21}{1373} \sqrt{1010}e^{14},$ $\frac{42}{1373} \sqrt{313}e^{24}, \frac{42}{1373} \sqrt{123}e^{15}, \frac{21}{1373} \sqrt{830}e^{16} + \frac{42}{1373} \sqrt{257}e^{35}$	$(\frac{189}{1373}, -\frac{294}{1373}, \frac{42}{1373}, -\frac{105}{1373}, \frac{231}{1373}, \frac{84}{1373}, -\frac{399}{1373}, \frac{420}{1373}, \frac{273}{1373})$ $+ \frac{21}{1373} \sqrt{2398}e^3 \otimes e_7$	{1234689, 267}
9641:24	$0, 0, 0, \frac{118}{5523} \sqrt{573}e^{12}, \frac{118}{5523} \sqrt{398}e^{13}, \frac{118}{5523} \sqrt{795}e^{14},$ $\frac{59}{5523} \sqrt{4742}e^{24}, \frac{118}{5523} \sqrt{1209}e^{15}, \frac{59}{5523} \sqrt{2258}e^{16} + \frac{118}{5523} \sqrt{79}e^{35}$	$(-\frac{118}{789}, \frac{2006}{5523}, \frac{59}{1841}, \frac{1180}{5523}, -\frac{649}{5523}, \frac{118}{1841}, \frac{1062}{1841}, \frac{1475}{5523}, -\frac{472}{5523})$ $+ \frac{118}{5523} \sqrt{2354}e^2 \otimes e_8$	{1257, 249}
9641:24	$0, 0, 0, \frac{45}{1129} \sqrt{202}e^{12}, \frac{9}{1129} \sqrt{2730}e^{13}, \frac{45}{1129} \sqrt{70}e^{14}, \frac{18}{1129} \sqrt{795}e^{24},$ $\frac{9}{1129} \sqrt{4110}e^{15}, \frac{18}{1129} \sqrt{745}e^{16} + \frac{54}{1129} \sqrt{115}e^{35}$	$(-\frac{135}{1129}, \frac{306}{1129}, \frac{18}{1129}, \frac{171}{1129}, -\frac{117}{1129}, \frac{36}{1129}, \frac{477}{1129}, -\frac{252}{1129}, -\frac{99}{1129})$ $+ \frac{90}{1129} \sqrt{97}e^2 \otimes e_9$	{1235678, 1267}
9641:25	$0, 0, 0, \frac{82}{5499} \sqrt{213}e^{12}, \frac{82}{5499} \sqrt{59}e^{13}, \frac{82}{5499} \sqrt{1249}e^{24},$ $\frac{41}{5499} \sqrt{3990}e^{14}, \frac{82}{5499} \sqrt{1595}e^{15}, \frac{205}{5499} \sqrt{202}e^{26} + \frac{410}{5499} \sqrt{33}e^{35}$	$(-\frac{82}{423}, \frac{902}{5499}, \frac{451}{1833}, -\frac{164}{5499}, \frac{287}{5499}, \frac{82}{611}, -\frac{410}{1833}, -\frac{779}{5499}, \frac{1640}{5499})$ $+ \frac{82}{1833} \sqrt{263}e^2 \otimes e_8$	{138, 345689}
9641:25	$0, 0, 0, \frac{118}{5299} \sqrt{431}e^{12}, \frac{118}{5299} \sqrt{367}e^{13}, \frac{118}{5299} \sqrt{5}e^{24},$ $\frac{59}{5299} \sqrt{4470}e^{14}, \frac{590}{5299} \sqrt{33}e^{15}, \frac{59}{5299} \sqrt{1810}e^{26} + \frac{118}{5299} \sqrt{1309}e^{35}$	$(-\frac{1416}{5299}, \frac{1298}{5299}, \frac{1947}{5299}, -\frac{118}{5299}, \frac{531}{5299}, \frac{1180}{5299}, -\frac{1534}{5299}, -\frac{885}{5299}, \frac{354}{757})$ $+ \frac{118}{5299} \sqrt{2267}e^3 \otimes e_7$	{1349, 356}
9641:26	$0, 0, 0, \frac{204}{3461} \sqrt{14}e^{12}, \frac{68}{3461} \sqrt{670}e^{13}, \frac{340}{3461} \sqrt{10}e^{24}, \frac{340}{3461} \sqrt{53}e^{14},$ $\frac{68}{3461} \sqrt{1465}e^{35}, \frac{68}{3461} \sqrt{934}e^{15} + \frac{54}{3461} \sqrt{461}e^{26}$	$(-\frac{612}{3461}, \frac{238}{3461}, \frac{1326}{3461}, -\frac{374}{3461}, \frac{714}{3461}, -\frac{136}{3461}, -\frac{986}{3461}, \frac{2040}{3461}, \frac{102}{3461})$ $+ \frac{68}{3461} \sqrt{2886}e^3 \otimes e_7$	{125789, 1348}
9641:26	$0, 0, 0, \frac{16}{703} \sqrt{345}e^{12}, \frac{8}{703} \sqrt{430}e^{13}, \frac{8}{703} \sqrt{1030}e^{24}, \frac{40}{703} \sqrt{17}e^{14},$ $\frac{40}{703} \sqrt{65}e^{35}, \frac{32}{703} \sqrt{85}e^{15} + \frac{8}{703} \sqrt{1165}e^{26}$	$(\frac{100}{703}, -\frac{12}{703}, -\frac{136}{703}, \frac{88}{703}, -\frac{36}{703}, \frac{4}{703}, \frac{188}{703}, -\frac{172}{703}, \frac{64}{703})$ $+ \frac{80}{703} \sqrt{30}e^2 \otimes e_8$	{1267, 58}
9641:27	$0, 0, 0, \frac{19}{3583} \sqrt{1110}e^{12}, \frac{19}{3583} \sqrt{3022}e^{13}, \frac{38}{3583} \sqrt{1158}e^{14},$ $\frac{38}{3583} \sqrt{1454}e^{15}, \frac{19}{3583} \sqrt{1758}e^{35}, \frac{19}{3583} \sqrt{5002}e^{16} + \frac{380}{3583} \sqrt{14}e^{24}$	$(\frac{114}{3583}, \frac{228}{3583}, -\frac{361}{3583}, \frac{342}{3583}, -\frac{247}{3583}, \frac{456}{3583}, -\frac{133}{3583}, -\frac{608}{3583}, \frac{570}{3583})$ $+ \frac{228}{3583} \sqrt{46}e^2 \otimes e_7$	{134679, 35678}
9641:27	$0, 0, 0, \frac{1}{23} \sqrt{66}e^{12}, \frac{1}{23} \sqrt{209}e^{13}, \frac{1}{23} \sqrt{110}e^{14}, \frac{1}{23} \sqrt{11}e^{15},$ $\frac{1}{23} \sqrt{165}e^{35}, \frac{1}{23} \sqrt{55}e^{16} + \frac{1}{23} \sqrt{187}e^{24}$	$(-\frac{1}{23}, -\frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, \frac{5}{23}, -\frac{4}{23}, \frac{4}{23}, \frac{11}{23}, -\frac{5}{23})$ $+ \frac{1}{23} \sqrt{429}e^3 \otimes e_9$	{1234678, 269}
9641:27	$0, 0, 0, \frac{387}{3997} \sqrt{46}e^{12}, \frac{43}{3997} \sqrt{454}e^{13}, \frac{43}{3997} \sqrt{22}e^{14}, \frac{43}{3997} \sqrt{1510}e^{15},$ $\frac{516}{3997} \sqrt{22}e^{35}, \frac{86}{3997} \sqrt{305}e^{16} + \frac{86}{3997} \sqrt{766}e^{24}$	$(\frac{43}{571}, \frac{86}{571}, -\frac{774}{3997}, \frac{129}{571}, -\frac{473}{3997}, \frac{172}{571}, -\frac{172}{3997}, -\frac{1247}{3997}, \frac{215}{571})$ $+ \frac{86}{3997} \sqrt{1707}e^2 \otimes e_8$	{1235679, 1269}
9641:27	$0, 0, 0, \frac{380}{2093} \sqrt{6}e^{12}, \frac{38}{2093} \sqrt{3}e^{13}, \frac{38}{2093} \sqrt{1067}e^{14}, \frac{38}{2093} \sqrt{427}e^{15},$ $\frac{76}{2093} \sqrt{210}e^{35}, \frac{646}{2093} \sqrt{3}e^{16} + \frac{38}{2093} \sqrt{534}e^{24}$	$(\frac{19}{299}, \frac{38}{299}, -\frac{361}{2093}, \frac{57}{299}, -\frac{228}{2093}, \frac{76}{299}, -\frac{95}{2093}, -\frac{589}{2093}, \frac{95}{299})$ $- \frac{38}{2093} \sqrt{1761}e^1 \otimes e_8$	{123567, 126, 2346789, 245689}
9641:27	$0, 0, 0, \frac{380}{2093} \sqrt{6}e^{12}, \frac{38}{2093} \sqrt{3}e^{13}, \frac{38}{2093} \sqrt{1067}e^{14}, \frac{38}{2093} \sqrt{427}e^{15},$ $\frac{76}{2093} \sqrt{210}e^{35}, \frac{646}{2093} \sqrt{3}e^{16} + \frac{38}{2093} \sqrt{534}e^{24}$	$(\frac{19}{299}, \frac{38}{299}, -\frac{361}{2093}, \frac{57}{299}, -\frac{228}{2093}, \frac{76}{299}, -\frac{95}{2093}, -\frac{589}{2093}, \frac{95}{299})$ $+ \frac{38}{2093} \sqrt{1761}e^1 \otimes e_8$	{123567, 126, 2346789, 245689}
9641:28	$0, 0, 0, \frac{164}{4543} \sqrt{159}e^{12}, \frac{41}{4543} \sqrt{14}e^{13}, \frac{164}{4543} \sqrt{213}e^{24},$ $\frac{164}{4543} \sqrt{70}e^{15}, \frac{369}{4543} \sqrt{42}e^{35}, \frac{41}{4543} \sqrt{1138}e^{14} + \frac{656}{4543} \sqrt{10}e^{26}$	$(\frac{82}{649}, \frac{41}{649}, -\frac{984}{4543}, \frac{123}{649}, -\frac{410}{4543}, \frac{164}{649}, \frac{164}{4543}, -\frac{1394}{4543}, \frac{205}{649})$ $+ \frac{41}{4543} \sqrt{7638}e^2 \otimes e_8$	{134689, 1456789}
9641:28	$0, 0, 0, \frac{2}{557} \sqrt{582}e^{12}, \frac{4}{557} \sqrt{211}e^{13}, \frac{72}{557} e^{24}, \frac{4}{557} \sqrt{410}e^{15},$ $\frac{30}{557} \sqrt{2}e^{35}, \frac{4}{557} \sqrt{415}e^{14} + \frac{2}{557} \sqrt{1490}e^{26}$	$(\frac{12}{557}, \frac{6}{557}, -\frac{26}{557}, \frac{18}{557}, -\frac{14}{557}, \frac{24}{557}, -\frac{2}{557}, -\frac{40}{557}, \frac{30}{557})$ $+ \frac{2}{557} \sqrt{1938}e^2 \otimes e_7$	{12459, 137}
9641:28	$0, 0, 0, \frac{8}{47} \sqrt{6}e^{12}, \frac{2}{47} \sqrt{201}e^{13}, \frac{4}{47} \sqrt{3}e^{24}, \frac{2}{47} \sqrt{21}e^{15},$ $\frac{2}{47} \sqrt{195}e^{35}, \frac{2}{47} \sqrt{57}e^{14} + \frac{2}{47} \sqrt{201}e^{26}$	$(-\frac{4}{47}, -\frac{2}{47}, \frac{14}{47}, -\frac{6}{47}, \frac{10}{47}, -\frac{8}{47}, \frac{6}{47}, \frac{24}{47}, -\frac{10}{47})$ $+ \frac{2}{47} \sqrt{471}e^3 \otimes e_9$	{2356, 4679}
9641:41	$0, 0, 0, \frac{2}{93} \sqrt{395}e^{12}, \frac{2}{93} \sqrt{195}e^{13}, \frac{8}{93} \sqrt{35}e^{14}, \frac{2}{93} \sqrt{790}e^{24},$ $\frac{2}{93} \sqrt{1030}e^{15}, \frac{20}{93} \sqrt{6}e^{16} + \frac{2}{93} \sqrt{515}e^{23}$	$(-\frac{5}{93}, \frac{25}{93}, -\frac{5}{31}, \frac{20}{93}, -\frac{20}{93}, \frac{5}{31}, \frac{15}{31}, -\frac{25}{93}, \frac{10}{93})$ $+ \frac{2}{93} \sqrt{1990}e^2 \otimes e_8$	{1346789, 249}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9641:96	$0, 0, 0, \frac{32}{309}\sqrt{21}e^{12}, \frac{32}{309}\sqrt{3}e^{13}, -\frac{32}{309}\sqrt{6}e^{14}, \frac{16}{309}\sqrt{111}e^{24},$ $\frac{16}{309}\sqrt{103}e^{35}, \frac{16}{103}\sqrt{5}e^{16} + \frac{16}{103}\sqrt{10}e^{27}$	$(\frac{8}{103}, \frac{8}{103}, -\frac{64}{309}, \frac{16}{103}, -\frac{40}{309}, \frac{24}{103}, \frac{24}{103}, -\frac{104}{309}, \frac{32}{103})$ $+ \frac{16}{309}\sqrt{258}e^2 \otimes e_8$	{1346789, 1456789, 23459, 249, 1346789, 1456789, 23459, 249}
9641:96	$0, 0, 0, \frac{32}{309}\sqrt{21}e^{12}, \frac{32}{309}\sqrt{3}e^{13}, \frac{32}{309}\sqrt{6}e^{14}, \frac{16}{309}\sqrt{111}e^{24},$ $\frac{16}{309}\sqrt{103}e^{35}, \frac{16}{103}\sqrt{5}e^{16} + \frac{16}{103}\sqrt{10}e^{27}$	$(\frac{8}{103}, \frac{8}{103}, -\frac{64}{309}, \frac{16}{103}, -\frac{40}{309}, \frac{24}{103}, \frac{24}{103}, -\frac{104}{309}, \frac{32}{103})$ $+ \frac{16}{309}\sqrt{258}e^2 \otimes e_8$	{1346789, 1456789, 23459, 249, 1346789, 1456789, 23459, 249}
9641:98	$0, 0, 0, \frac{10}{23}\sqrt{2}e^{12}, \frac{5}{69}\sqrt{74}e^{13}, -\frac{5}{23}\sqrt{10}e^{14}, \frac{5}{69}\sqrt{26}e^{24},$ $\frac{20}{69}\sqrt{2}e^{15}, \frac{10}{23}\sqrt{2}e^{16} + \frac{10}{69}\sqrt{11}e^{27}$	$(\frac{5}{69}, \frac{5}{69}, -\frac{20}{69}, \frac{10}{69}, -\frac{5}{23}, \frac{5}{23}, \frac{5}{23}, -\frac{10}{69}, \frac{20}{69})$ $+ \frac{5}{23}\sqrt{14}e^1 \otimes e_3$	{126, 149, 2346789, 378, 126, 149, 2346789, 378}
9641:98	$0, 0, 0, \frac{10}{23}\sqrt{2}e^{12}, \frac{5}{69}\sqrt{74}e^{13}, \frac{5}{23}\sqrt{10}e^{14}, \frac{5}{69}\sqrt{26}e^{24},$ $\frac{20}{69}\sqrt{2}e^{15}, \frac{10}{23}\sqrt{2}e^{16} + \frac{10}{69}\sqrt{11}e^{27}$	$(\frac{5}{69}, \frac{5}{69}, -\frac{20}{69}, \frac{10}{69}, -\frac{5}{23}, \frac{5}{23}, \frac{5}{23}, -\frac{10}{69}, \frac{20}{69})$ $+ \frac{5}{23}\sqrt{14}e^1 \otimes e_3$	{126, 149, 2346789, 378, 126, 149, 2346789, 378}
9641:138	$0, 0, 0, \frac{51}{5509}\sqrt{5226}e^{12}, \frac{51}{5509}\sqrt{5714}e^{13}, \frac{306}{5509}\sqrt{57}e^{24},$ $\frac{51}{5509}\sqrt{3794}e^{15}, \frac{51}{5509}\sqrt{4506}e^{14}, \frac{102}{5509}\sqrt{902}e^{17} + \frac{918}{5509}\sqrt{13}e^{26}$	$(-\frac{867}{5509}, \frac{306}{5509}, \frac{2652}{5509}, -\frac{561}{5509}, \frac{255}{787}, -\frac{255}{5509}, \frac{918}{5509}, -\frac{204}{787}, \frac{51}{5509})$ $+ \frac{102}{5509}\sqrt{2342}e^3 \otimes e_9$	{124589, 137}
9641:138	$0, 0, 0, \frac{3}{65}\sqrt{230}e^{12}, \frac{3}{65}\sqrt{170}e^{13}, \frac{6}{65}\sqrt{10}e^{24}, \frac{3}{65}\sqrt{70}e^{15},$ $\frac{3}{65}\sqrt{210}e^{14}, \frac{12}{65}\sqrt{10}e^{17} + \frac{6}{13}e^{26}$	$(\frac{3}{13}, 0, -\frac{6}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{3}{13}, 0, \frac{6}{13}, \frac{3}{13})$ $+ \frac{12}{65}\sqrt{35}e^1 \otimes e_3$	{1278, 36}
9641:138	$0, 0, 0, \frac{148}{2621}\sqrt{6}e^{12}, \frac{74}{2621}\sqrt{734}e^{13}, \frac{296}{2621}\sqrt{10}e^{24}, \frac{148}{2621}\sqrt{42}e^{15},$ $\frac{74}{2621}\sqrt{910}e^{14}, \frac{74}{2621}\sqrt{515}e^{17} + \frac{74}{2621}\sqrt{307}e^{26}$	$(-\frac{555}{2621}, \frac{259}{2621}, \frac{1887}{2621}, -\frac{296}{2621}, \frac{1332}{2621}, -\frac{37}{2621}, \frac{777}{2621}, -\frac{851}{2621}, \frac{222}{2621})$ $- \frac{74}{2621}\sqrt{2191}e^3 \otimes e_8$	{125789, 134, 24678, 3569}
9641:138	$0, 0, 0, \frac{148}{2621}\sqrt{6}e^{12}, \frac{74}{2621}\sqrt{734}e^{13}, \frac{296}{2621}\sqrt{10}e^{24}, \frac{148}{2621}\sqrt{42}e^{15},$ $\frac{74}{2621}\sqrt{910}e^{14}, \frac{74}{2621}\sqrt{515}e^{17} + \frac{74}{2621}\sqrt{307}e^{26}$	$(-\frac{555}{2621}, \frac{259}{2621}, \frac{1887}{2621}, -\frac{296}{2621}, \frac{1332}{2621}, -\frac{37}{2621}, \frac{777}{2621}, -\frac{851}{2621}, \frac{222}{2621})$ $+ \frac{74}{2621}\sqrt{2191}e^3 \otimes e_8$	{125789, 134, 24678, 3569}
9641:139	$0, 0, 0, \frac{112}{4701}\sqrt{30}e^{12}, \frac{224}{4701}\sqrt{111}e^{13}, \frac{112}{4701}\sqrt{249}e^{14},$ $\frac{56}{4701}\sqrt{1567}e^{35}, \frac{56}{1567}\sqrt{211}e^{24}, \frac{504}{1567}e^{16} + \frac{56}{4701}\sqrt{1218}e^{37}$	$(\frac{252}{1567}, \frac{364}{1567}, \frac{140}{4701}, \frac{112}{1567}, \frac{896}{4701}, \frac{140}{1567}, \frac{1036}{4701}, -\frac{476}{1567}, \frac{392}{1567})$ $+ \frac{56}{1567}\sqrt{446}e^3 \otimes e_8$	{137, 268}
9641:139	$0, 0, 0, \frac{44}{1619}\sqrt{435}e^{12}, \frac{66}{1619}\sqrt{137}e^{13}, \frac{22}{1619}\sqrt{159}e^{14}, \frac{66}{1619}\sqrt{30}e^{35},$ $\frac{66}{1619}\sqrt{174}e^{24}, \frac{22}{1619}\sqrt{870}e^{16} + \frac{44}{1619}\sqrt{435}e^{37}$	$(-\frac{242}{1619}, \frac{517}{1619}, \frac{11}{1619}, \frac{275}{1619}, -\frac{231}{1619}, \frac{33}{1619}, -\frac{220}{1619}, \frac{792}{1619}, -\frac{209}{1619})$ $+ \frac{22}{1619}\sqrt{4047}e^2 \otimes e_9$	{1268, 134589}
9641:140	$0, 0, 0, \frac{48}{509}\sqrt{34}e^{12}, \frac{24}{509}\sqrt{22}e^{13}, \frac{24}{509}\sqrt{26}e^{24}, \frac{24}{509}\sqrt{31}e^{35},$ $\frac{72}{509}\sqrt{19}e^{14}, \frac{24}{509}\sqrt{79}e^{26} + \frac{48}{509}\sqrt{34}e^{37}$	$(\frac{180}{509}, -\frac{96}{509}, -\frac{96}{509}, \frac{84}{509}, \frac{84}{509}, -\frac{12}{509}, -\frac{12}{509}, \frac{264}{509}, -\frac{108}{509})$ $+ \frac{96}{509}\sqrt{26}e^1 \otimes e_9$	{1347, 3569}
9631:1	$0, 0, 0, \frac{2}{169}\sqrt{861}e^{12}, \frac{1}{169}\sqrt{2665}e^{13}, \frac{3}{169}\sqrt{1230}e^{23}, \frac{1}{169}\sqrt{12218}e^{14},$ $\frac{3}{169}\sqrt{697}e^{24}, \frac{1}{169}\sqrt{8979}e^{17}$	$(\frac{35}{169}, -\frac{23}{169}, -\frac{24}{169}, \frac{12}{169}, \frac{11}{169}, -\frac{47}{169}, \frac{47}{169}, -\frac{11}{169}, \frac{82}{169})$ $+ \frac{9}{169}\sqrt{287}e^1 \otimes e_6$	{12357, 149, 2456789, 368}
9631:1	$0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{17}e^{13}, \frac{8}{37}\sqrt{2}e^{23}, \frac{2}{37}\sqrt{22}e^{14},$ $\frac{2}{37}\sqrt{7}e^{24}, \frac{2}{37}\sqrt{15}e^{17}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $- \frac{2}{37}\sqrt{58}e^2 \otimes e_5 + \frac{2}{37}\sqrt{73}e^1 \otimes e_6$	{12378, 14589, 24679, 356}
9631:1	$0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{17}e^{13}, \frac{8}{37}\sqrt{2}e^{23}, \frac{2}{37}\sqrt{22}e^{14},$ $\frac{2}{37}\sqrt{7}e^{24}, \frac{2}{37}\sqrt{15}e^{17}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $+ \frac{2}{37}\sqrt{58}e^2 \otimes e_5 + \frac{2}{37}\sqrt{73}e^1 \otimes e_6$	{12378, 14589, 24679, 356}
9631:1	$0, 0, 0, \frac{3}{445}\sqrt{146}e^{12}, \frac{9}{890}\sqrt{70}e^{13}, \frac{3}{445}\sqrt{309}e^{23}, \frac{3}{445}\sqrt{233}e^{14},$ $\frac{3}{890}\sqrt{102}e^{24}, \frac{3}{890}\sqrt{1202}e^{17}$	$(-\frac{3}{445}, \frac{18}{445}, -\frac{6}{89}, \frac{3}{89}, -\frac{33}{445}, -\frac{12}{445}, \frac{12}{445}, \frac{33}{445}, \frac{9}{445})$ $+ \frac{3}{445}\sqrt{374}e^2 \otimes e_9 + \frac{3}{890}\sqrt{1698}e^1 \otimes e_6$	{12357, 149}
9631:1	$0, 0, 0, \frac{14}{2043}\sqrt{83}e^{12}, \frac{14}{2043}\sqrt{446}e^{13}, \frac{7}{2043}\sqrt{94}e^{23}, \frac{28}{2043}\sqrt{67}e^{14},$ $\frac{14}{2043}\sqrt{422}e^{24}, \frac{14}{2043}\sqrt{155}e^{17}$	$(-\frac{28}{681}, \frac{70}{2043}, \frac{35}{681}, -\frac{14}{2043}, \frac{7}{681}, \frac{175}{2043}, -\frac{98}{2043}, \frac{56}{2043}, -\frac{182}{2043})$ $+ \frac{14}{2043}\sqrt{458}e^3 \otimes e_8 + \frac{7}{681}\sqrt{222}e^2 \otimes e_5$	{145789, 3567}
9631:1	$0, 0, 0, \frac{24}{2681}\sqrt{3255}e^{12}, \frac{18}{2681}\sqrt{6603}e^{13}, \frac{72}{2681}\sqrt{465}e^{23},$ $\frac{6}{2681}\sqrt{14973}e^{14}, \frac{180}{2681}\sqrt{62}e^{24}, \frac{12}{2681}\sqrt{21390}e^{17}$	$(-\frac{558}{2681}, \frac{801}{2681}, \frac{363}{2681}, \frac{243}{2681}, -\frac{195}{2681}, \frac{1164}{2681}, -\frac{45}{383}, \frac{1044}{2681}, -\frac{873}{2681})$ $+ \frac{6}{2681}\sqrt{208041}e^2 \otimes e_9$	{123578, 12678, 1345689, 1489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:1	$0, 0, 0, \frac{5}{49}\sqrt{38}e^{12}, \frac{1}{49}\sqrt{570}e^{13}, \frac{1}{49}\sqrt{1482}e^{23}, \frac{1}{49}\sqrt{114}e^{14},$ $\frac{3}{49}\sqrt{38}e^{24}, \frac{6}{49}\sqrt{38}e^{17}$	$(-\frac{1}{7}, \frac{5}{49}, \frac{22}{49}, -\frac{2}{49}, \frac{15}{49}, \frac{27}{49}, -\frac{9}{49}, \frac{3}{49}, -\frac{16}{49})$ $+\frac{1}{49}\sqrt{3154}e^3 \otimes e_9$	{1245689, 13678, 235, 479}
9631:1	$0, 0, 0, \frac{4}{1251}\sqrt{17119}e^{12}, \frac{1}{1251}\sqrt{1073462}e^{13}, \frac{2}{1251}\sqrt{65455}e^{23},$ $\frac{1}{1251}\sqrt{545794}e^{14}, \frac{4}{1251}\sqrt{58406}e^{24}, \frac{1}{1251}\sqrt{142994}e^{17}$	$(\frac{43}{417}, -\frac{274}{1251}, \frac{196}{417}, -\frac{145}{1251}, \frac{239}{417}, \frac{314}{1251}, -\frac{16}{1251}, -\frac{419}{1251}, \frac{113}{1251})$ $+\frac{1}{1251}\sqrt{2148938}e^3 \otimes e_8$	{123479, 136, 2678, 489}
9631:1	$0, 0, 0, \frac{2}{319}\sqrt{9159}e^{12}, \frac{12}{319}\sqrt{355}e^{13}, \frac{6}{319}\sqrt{71}e^{23}, \frac{2}{319}\sqrt{7242}e^{14},$ $\frac{1}{319}\sqrt{55806}e^{24}, \frac{1}{319}\sqrt{22578}e^{17}$	$(-\frac{38}{319}, \frac{108}{319}, -\frac{67}{319}, \frac{70}{319}, -\frac{105}{319}, \frac{41}{319}, \frac{32}{319}, \frac{178}{319}, -\frac{6}{319})$ $+\frac{4}{319}\sqrt{7242}e^2 \otimes e_5$	{12368, 1456789, 249, 357}
9631:1	$0, 0, 0, \frac{78}{5749}\sqrt{170}e^{12}, \frac{117}{5749}\sqrt{82}e^{13}, \frac{78}{5749}\sqrt{555}e^{23}, \frac{39}{5749}\sqrt{982}e^{14},$ $\frac{234}{5749}\sqrt{95}e^{24}, \frac{39}{5749}\sqrt{1790}e^{17}$	$(-\frac{507}{5749}, \frac{234}{5749}, \frac{1482}{5749}, -\frac{273}{5749}, \frac{975}{5749}, \frac{1716}{5749}, -\frac{780}{5749}, -\frac{39}{5749}, -\frac{1287}{5749})$ $+\frac{39}{5749}\sqrt{4710}e^3 \otimes e_8 + \frac{78}{5749}\sqrt{1394}e^2 \otimes e_9$	{2345, 35679}
9631:1	$0, 0, 0, \frac{36}{277}e^{12}, \frac{18}{277}\sqrt{15}e^{13}, \frac{36}{277}\sqrt{10}e^{23}, \frac{9}{277}\sqrt{102}e^{14},$ $\frac{9}{277}\sqrt{2}e^{24}, \frac{36}{277}\sqrt{6}e^{17}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+\frac{9}{277}\sqrt{190}e^3 \otimes e_8 + \frac{9}{277}\sqrt{298}e^1 \otimes e_6$	{1237, 246789}
9631:2	$0, 0, 0, \frac{1}{401}\sqrt{43010}e^{12}, \frac{1}{401}\sqrt{44022}e^{13}, \frac{1}{401}\sqrt{50347}e^{23}, \frac{1}{401}\sqrt{3795}e^{14},$ $\frac{1}{401}\sqrt{50853}e^{35}, \frac{1}{401}\sqrt{67298}e^{17}$	$(-\frac{63}{401}, \frac{50}{401}, \frac{114}{401}, -\frac{13}{401}, \frac{51}{401}, \frac{164}{401}, \frac{76}{401}, \frac{165}{401}, -\frac{139}{401})$ $+\frac{1}{401}\sqrt{170269}e^3 \otimes e_9$	{123478, 1589, 2679, 3456}
9631:2	$0, 0, 0, \frac{63}{2173}\sqrt{107}e^{12}, \frac{42}{2173}\sqrt{95}e^{13}, \frac{21}{2173}\sqrt{1138}e^{23}, \frac{42}{2173}\sqrt{255}e^{14},$ $\frac{21}{2173}\sqrt{349}e^{35}, \frac{21}{2173}\sqrt{699}e^{17}$	$(\frac{189}{2173}, \frac{42}{2173}, -\frac{294}{2173}, \frac{231}{2173}, -\frac{105}{2173}, -\frac{252}{2173}, \frac{420}{2173}, -\frac{399}{2173}, \frac{609}{2173})$ $+\frac{147}{2173}\sqrt{34}e^2 \otimes e_8 + \frac{21}{2173}\sqrt{2161}e^1 \otimes e_6$	{12357, 368}
9631:2	$0, 0, 0, \frac{600}{3161}\sqrt{7}e^{12}, \frac{30}{3161}\sqrt{5115}e^{13}, \frac{1080}{3161}\sqrt{5}e^{23},$ $\frac{30}{3161}\sqrt{2545}e^{14}, \frac{60}{3161}\sqrt{330}e^{35}, \frac{60}{3161}\sqrt{1510}e^{17}$	$(-\frac{750}{3161}, \frac{45}{109}, \frac{495}{3161}, \frac{555}{3161}, -\frac{255}{3161}, \frac{1800}{3161}, -\frac{195}{3161}, \frac{240}{3161}, -\frac{945}{3161})$ $+\frac{30}{3161}\sqrt{13285}e^2 \otimes e_9$	{123578, 12678, 1345689, 1489}
9631:2	$0, 0, 0, \frac{1}{83}\sqrt{46}e^{12}, \frac{1}{83}\sqrt{230}e^{13}, \frac{1}{83}\sqrt{851}e^{23}, \frac{1}{83}\sqrt{69}e^{14},$ $\frac{1}{83}\sqrt{989}e^{35}, \frac{1}{83}\sqrt{690}e^{17}$	$(-\frac{13}{83}, \frac{22}{83}, \frac{6}{83}, \frac{9}{83}, -\frac{7}{83}, \frac{28}{83}, -\frac{4}{83}, -\frac{1}{83}, -\frac{17}{83})$ $+\frac{1}{83}\sqrt{1909}e^3 \otimes e_9 + \frac{8}{83}\sqrt{23}e^2 \otimes e_8$	{14589, 24679}
9631:2	$0, 0, 0, \frac{46}{1079}\sqrt{305}e^{12}, \frac{2}{3237}\sqrt{658007}e^{13}, \frac{2}{3237}\sqrt{837591}e^{23},$ $\frac{2}{3237}\sqrt{489647}e^{14}, \frac{8}{3237}\sqrt{77165}e^{35}, \frac{4}{3237}\sqrt{1403}e^{17}$	$(-\frac{341}{3237}, \frac{535}{1079}, -\frac{430}{3237}, \frac{1264}{3237}, -\frac{257}{1079}, \frac{1175}{3237}, \frac{71}{249}, -\frac{1201}{3237}, \frac{194}{1079})$ $+\frac{2}{3237}\sqrt{3730577}e^2 \otimes e_8$	{12357, 1267, 368, 58}
9631:2	$0, 0, 0, \frac{7}{841}\sqrt{2370}e^{12}, \frac{14}{841}\sqrt{130}e^{13}, \frac{14}{841}\sqrt{1310}e^{23}, \frac{238}{841}\sqrt{5}e^{14},$ $\frac{35}{841}\sqrt{30}e^{35}, \frac{7}{841}\sqrt{4990}e^{17}$	$(\frac{210}{841}, -\frac{231}{841}, -\frac{49}{841}, -\frac{21}{841}, \frac{161}{841}, -\frac{280}{841}, \frac{189}{841}, \frac{112}{841}, \frac{399}{841})$ $+\frac{7}{841}\sqrt{13830}e^1 \otimes e_6$	{123578, 1489, 245679, 36}
9631:3	$0, 0, 0, \frac{2}{349}\sqrt{7770}e^{12}, \frac{4}{349}\sqrt{3885}e^{13}, \frac{6}{349}\sqrt{1739}e^{23}, \frac{4}{349}\sqrt{1887}e^{24},$ $\frac{4}{349}\sqrt{1887}e^{35}, \frac{4}{349}\sqrt{3885}e^{27}$	$(\frac{139}{349}, -\frac{74}{349}, -\frac{4}{349}, \frac{65}{349}, \frac{135}{349}, -\frac{78}{349}, -\frac{9}{349}, \frac{131}{349}, -\frac{83}{349})$ $+\frac{2}{349}\sqrt{31746}e^1 \otimes e_9$	{123678, 12578, 234569, 249}
9631:3	$0, 0, 0, \frac{6}{479}\sqrt{2910}e^{12}, \frac{1}{479}\sqrt{80510}e^{13}, \frac{2}{479}\sqrt{29585}e^{23}, \frac{2}{479}\sqrt{3395}e^{24},$ $\frac{2}{479}\sqrt{3395}e^{35}, \frac{10}{479}\sqrt{485}e^{27}$	$(\frac{288}{479}, -\frac{86}{479}, -\frac{111}{479}, \frac{202}{479}, \frac{177}{479}, -\frac{197}{479}, \frac{116}{479}, \frac{66}{479}, \frac{30}{479})$ $+\frac{1}{479}\sqrt{387030}e^1 \otimes e_6$	{123, 1459, 246789, 35678}
9631:3	$0, 0, 0, \frac{2}{385}\sqrt{987}e^{12}, \frac{6}{385}\sqrt{77}e^{13}, \frac{6}{385}\sqrt{105}e^{23}, \frac{1}{385}\sqrt{4494}e^{24},$ $\frac{1}{385}\sqrt{4494}e^{35}, \frac{1}{385}\sqrt{5334}e^{27}$	$(\frac{6}{55}, -\frac{1}{55}, -\frac{1}{11}, \frac{1}{11}, \frac{1}{55}, -\frac{6}{55}, \frac{4}{55}, -\frac{4}{55}, \frac{3}{55})$ $+\frac{2}{55}\sqrt{33}e^1 \otimes e_9 + \frac{3}{385}\sqrt{854}e^2 \otimes e_8$	{234569, 249}
9631:3	$0, 0, 0, \frac{1}{515}\sqrt{59718}e^{12}, \frac{3}{515}\sqrt{12374}e^{13}, \frac{1}{515}\sqrt{2690}e^{23}, \frac{3}{515}\sqrt{1614}e^{24},$ $\frac{2}{515}\sqrt{22865}e^{35}, \frac{3}{515}\sqrt{12374}e^{27}$	$(-\frac{2}{103}, -\frac{42}{515}, \frac{133}{515}, -\frac{52}{515}, \frac{123}{515}, \frac{91}{515}, -\frac{94}{515}, \frac{256}{515}, -\frac{136}{515})$ $+\frac{1}{515}\sqrt{230802}e^3 \otimes e_9$	{1245689, 1368, 2357, 479}
9631:3	$0, 0, 0, \frac{2}{539}\sqrt{105}e^{12}, \frac{6}{539}\sqrt{77}e^{13}, \frac{8}{539}\sqrt{7}e^{23}, \frac{12}{539}\sqrt{21}e^{24},$ $\frac{2}{539}\sqrt{1295}e^{35}, \frac{12}{539}\sqrt{35}e^{27}$	$(-\frac{1}{11}, \frac{3}{77}, \frac{4}{77}, -\frac{4}{77}, -\frac{3}{77}, \frac{1}{11}, -\frac{1}{77}, \frac{1}{77}, \frac{2}{77})$ $+\frac{18}{539}\sqrt{21}e^2 \otimes e_8 + \frac{2}{77}\sqrt{33}e^3 \otimes e_9$	{1456789, 249}
9631:3	$0, 0, 0, \frac{11}{845}\sqrt{222}e^{12}, \frac{22}{845}\sqrt{266}e^{13}, \frac{11}{845}\sqrt{410}e^{23}, \frac{11}{845}\sqrt{6}e^{24},$ $\frac{22}{845}\sqrt{155}e^{35}, \frac{11}{845}\sqrt{694}e^{27}$	$(\frac{33}{169}, -\frac{121}{845}, \frac{44}{845}, \frac{44}{845}, \frac{209}{845}, -\frac{77}{845}, -\frac{77}{845}, \frac{253}{845}, -\frac{198}{845})$ $+\frac{11}{845}\sqrt{1110}e^1 \otimes e_6 - \frac{11}{845}\sqrt{1878}e^3 \otimes e_9$	{123478, 15789, 269, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:3	$0, 0, 0, \frac{11}{845} \sqrt{222}e^{12}, \frac{22}{845} \sqrt{266}e^{13}, \frac{11}{845} \sqrt{410}e^{23}, \frac{11}{845} \sqrt{6}e^{24},$ $\frac{22}{845} \sqrt{155}e^{35}, \frac{11}{845} \sqrt{694}e^{27}$	$(\frac{33}{169}, -\frac{121}{845}, \frac{44}{845}, \frac{44}{845}, \frac{209}{845}, -\frac{77}{845}, -\frac{77}{845}, \frac{253}{845}, -\frac{198}{845})$ $+ \frac{11}{845} \sqrt{1110}e^1 \otimes e_6 + \frac{11}{845} \sqrt{1878}e^3 \otimes e_9$	{123478, 15789, 269, 3456}
9631:3	$0, 0, 0, \frac{6}{23} \sqrt{2}e^{12}, \frac{2}{23} \sqrt{3}e^{13}, \frac{2}{23} \sqrt{3}e^{23}, \frac{2}{23} \sqrt{15}e^{24},$ $\frac{2}{23} \sqrt{15}e^{35}, \frac{6}{23} e^{27}$	$(\frac{3}{23}, \frac{1}{23}, -\frac{4}{23}, \frac{4}{23}, -\frac{1}{23}, -\frac{3}{23}, \frac{5}{23}, -\frac{5}{23}, \frac{6}{23})$ $+ \frac{2}{23} \sqrt{21}e^1 \otimes e_6 + \frac{2}{23} \sqrt{39}e^2 \otimes e_8$	{145789, 2469}
9631:4	$0, 0, 0, \frac{3}{566} \sqrt{11690}e^{12}, \frac{3}{566} \sqrt{17430}e^{13}, \frac{18}{283} \sqrt{105}e^{23}, \frac{3}{566} \sqrt{11795}e^{14},$ $\frac{3}{566} \sqrt{12390}e^{15}, \frac{15}{566} \sqrt{770}e^{17}$	$(-\frac{105}{566}, \frac{183}{566}, \frac{225}{1132}, \frac{39}{283}, \frac{15}{283}, \frac{591}{1132}, -\frac{27}{566}, -\frac{195}{1132}, \frac{66}{283})$ $+ \frac{21}{566} \sqrt{695}e^2 \otimes e_9$	{123578, 1267, 1345689, 149}
9631:4	$0, 0, 0, \frac{45}{5021} \sqrt{554}e^{12}, \frac{495}{5021} \sqrt{6}e^{13}, \frac{45}{5021} \sqrt{3290}e^{23}, \frac{90}{5021} \sqrt{106}e^{14},$ $\frac{315}{5021} \sqrt{34}e^{15}, \frac{45}{5021} \sqrt{1326}e^{17}$	$(-\frac{810}{5021}, \frac{1305}{5021}, \frac{900}{5021}, \frac{495}{5021}, \frac{90}{5021}, \frac{2205}{5021}, -\frac{315}{5021}, -\frac{720}{5021}, -\frac{1125}{5021})$ $+ \frac{45}{5021} \sqrt{4226}e^2 \otimes e_8 + \frac{90}{5021} \sqrt{1174}e^3 \otimes e_9$	{2679, 34568}
9631:4	$0, 0, 0, \frac{6}{6517} \sqrt{677}e^{12}, \frac{3}{6517} \sqrt{2958}e^{13}, \frac{18}{6517} \sqrt{123}e^{23}, \frac{6}{6517} \sqrt{953}e^{14},$ $\frac{3}{6517} \sqrt{1482}e^{15}, \frac{3}{6517} \sqrt{4922}e^{17}$	$(-\frac{3}{6517}, \frac{87}{6517}, -\frac{99}{6517}, \frac{12}{931}, -\frac{102}{6517}, -\frac{12}{6517}, \frac{81}{6517}, -\frac{15}{931}, \frac{78}{6517})$ $+ \frac{18}{6517} \sqrt{159}e^1 \otimes e_6 + \frac{3}{6517} \sqrt{6038}e^2 \otimes e_9$	{123578, 149}
9631:4	$0, 0, 0, \frac{4}{2497} \sqrt{46266}e^{12}, \frac{2}{2497} \sqrt{38555}e^{13}, \frac{2}{2497} \sqrt{4206}e^{23},$ $\frac{2}{2497} \sqrt{501215}e^{14}, \frac{6}{2497} \sqrt{23133}e^{15}, \frac{2}{2497} \sqrt{439527}e^{17}$	$(\frac{49}{227}, -\frac{536}{2497}, -\frac{327}{2497}, \frac{3}{2497}, \frac{212}{2497}, -\frac{863}{2497}, \frac{542}{2497}, \frac{751}{2497}, \frac{1081}{2497})$ $+ \frac{6}{2497} \sqrt{159127}e^1 \otimes e_6$	{12378, 1459, 24679, 3568}
9631:4	$0, 0, 0, \frac{1}{287} \sqrt{26565}e^{12}, \frac{1}{287} \sqrt{9614}e^{13}, \frac{13}{287} \sqrt{253}e^{23}, \frac{1}{287} \sqrt{3795}e^{14},$ $\frac{1}{287} \sqrt{45034}e^{15}, \frac{5}{287} \sqrt{506}e^{17}$	$(-\frac{85}{574}, \frac{150}{287}, -\frac{18}{287}, \frac{215}{574}, -\frac{121}{574}, \frac{132}{287}, \frac{65}{287}, -\frac{103}{287}, \frac{45}{574})$ $+ \frac{1}{287} \sqrt{121187}e^2 \otimes e_8$	{1235, 14789, 2349, 578}
9631:4	$0, 0, 0, \frac{155}{6869} \sqrt{78}e^{12}, \frac{31}{6869} \sqrt{266}e^{13}, \frac{217}{6869} \sqrt{82}e^{23}, \frac{248}{6869} \sqrt{30}e^{14},$ $\frac{31}{6869} \sqrt{2866}e^{15}, \frac{31}{6869} \sqrt{1270}e^{17}$	$(\frac{310}{6869}, \frac{465}{6869}, -\frac{1116}{6869}, \frac{775}{6869}, -\frac{806}{6869}, -\frac{651}{6869}, \frac{1085}{6869}, -\frac{496}{6869}, \frac{1395}{6869})$ $+ \frac{186}{6869} \sqrt{190}e^1 \otimes e_6 + \frac{31}{6869} \sqrt{5378}e^2 \otimes e_8$	{12357, 1489}
9631:4	$0, 0, 0, \frac{2}{2293} \sqrt{526967}e^{12}, \frac{42}{2293} \sqrt{907}e^{13}, \frac{2}{2293} \sqrt{735577}e^{23},$ $\frac{8}{2293} \sqrt{2721}e^{14}, \frac{2}{2293} \sqrt{62583}e^{15}, \frac{2}{2293} \sqrt{178679}e^{17}$	$(-\frac{303}{2293}, \frac{136}{2293}, \frac{1041}{2293}, -\frac{167}{2293}, \frac{738}{2293}, \frac{1177}{2293}, -\frac{470}{2293}, \frac{435}{2293}, -\frac{773}{2293})$ $+ \frac{2}{2293} \sqrt{1747789}e^3 \otimes e_9$	{123478, 159, 2679, 34568}
9631:5	$0, 0, 0, \frac{20}{3177} \sqrt{3723}e^{12}, \frac{4}{1059} \sqrt{23579}e^{13}, \frac{10}{3177} \sqrt{40953}e^{23},$ $\frac{2}{3177} \sqrt{112931}e^{24}, \frac{2}{3177} \sqrt{1190119}e^{15}, \frac{2}{3177} \sqrt{237031}e^{27}$	$(\frac{1234}{3177}, -\frac{97}{1059}, -\frac{319}{1059}, \frac{943}{3177}, \frac{277}{3177}, -\frac{416}{1059}, \frac{652}{3177}, \frac{1511}{3177}, \frac{361}{3177})$ $+ \frac{10}{3177} \sqrt{130305}e^1 \otimes e_6$	{1238, 1459, 24679, 35678}
9631:5	$0, 0, 0, \frac{1}{274} \sqrt{3354}e^{12}, \frac{1}{274} \sqrt{29154}e^{13}, \frac{3}{274} \sqrt{559}e^{23}, \frac{1}{274} \sqrt{10707}e^{24},$ $\frac{3}{274} \sqrt{2494}e^{15}, \frac{1}{274} \sqrt{29154}e^{27}$	$(\frac{61}{274}, -\frac{43}{274}, \frac{23}{548}, \frac{9}{137}, \frac{145}{548}, -\frac{63}{548}, -\frac{25}{274}, \frac{267}{548}, -\frac{34}{137})$ $+ \frac{1}{274} \sqrt{58695}e^1 \otimes e_9$	{123678, 1257, 2345689, 249}
9631:5	$0, 0, 0, \frac{110}{1037} \sqrt{5}e^{12}, \frac{88}{1037} \sqrt{19}e^{13}, \frac{110}{1037} \sqrt{10}e^{23}, \frac{22}{1037} \sqrt{46}e^{24},$ $\frac{22}{1037} \sqrt{229}e^{15}, \frac{22}{1037} \sqrt{154}e^{27}$	$(\frac{154}{1037}, -\frac{121}{1037}, \frac{33}{1037}, \frac{33}{1037}, \frac{11}{61}, -\frac{88}{1037}, -\frac{88}{1037}, \frac{341}{1037}, -\frac{209}{1037})$ $+ \frac{110}{1037} \sqrt{19}e^3 \otimes e_9 + \frac{330}{1037} \sqrt{2}e^1 \otimes e_6$	{123478, 1579, 269, 34568}
9631:5	$0, 0, 0, \frac{110}{1037} \sqrt{5}e^{12}, \frac{88}{1037} \sqrt{19}e^{13}, \frac{110}{1037} \sqrt{10}e^{23}, \frac{22}{1037} \sqrt{46}e^{24},$ $\frac{22}{1037} \sqrt{229}e^{15}, \frac{22}{1037} \sqrt{154}e^{27}$	$(\frac{154}{1037}, -\frac{121}{1037}, \frac{33}{1037}, \frac{33}{1037}, \frac{11}{61}, -\frac{88}{1037}, -\frac{88}{1037}, \frac{341}{1037}, -\frac{209}{1037})$ $- \frac{110}{1037} \sqrt{19}e^3 \otimes e_9 + \frac{330}{1037} \sqrt{2}e^1 \otimes e_6$	{123478, 1579, 269, 34568}
9631:5	$0, 0, 0, \frac{2}{261} \sqrt{510}e^{12}, \frac{2}{87} \sqrt{34}e^{13}, \frac{34}{261} \sqrt{3}e^{23}, \frac{2}{261} \sqrt{595}e^{24},$ $\frac{2}{261} \sqrt{1309}e^{15}, \frac{10}{261} \sqrt{17}e^{27}$	$(\frac{10}{261}, \frac{5}{87}, -\frac{13}{87}, \frac{25}{261}, -\frac{1}{9}, -\frac{8}{87}, \frac{40}{261}, -\frac{19}{261}, \frac{55}{261})$ $+ \frac{2}{261} \sqrt{1785}e^1 \otimes e_6 + \frac{2}{87} \sqrt{238}e^2 \otimes e_8$	{2469, 3568}
9631:5	$0, 0, 0, \frac{10}{1051} \sqrt{4979}e^{12}, \frac{28}{1051} \sqrt{766}e^{13}, \frac{20}{1051} \sqrt{766}e^{23}, \frac{4}{1051} \sqrt{766}e^{24},$ $\frac{2}{1051} \sqrt{63961}e^{15}, \frac{28}{1051} \sqrt{766}e^{27}$	$(-\frac{58}{1051}, -\frac{83}{1051}, \frac{459}{1051}, -\frac{141}{1051}, \frac{401}{1051}, \frac{376}{1051}, -\frac{224}{1051}, \frac{343}{1051}, -\frac{307}{1051})$ $+ \frac{10}{1051} \sqrt{13405}e^3 \otimes e_9$	{123478, 1579, 269, 34568}
9631:5	$0, 0, 0, \frac{6}{8701} \sqrt{377}e^{12}, \frac{3}{8701} \sqrt{3426}e^{13}, \frac{6}{8701} \sqrt{429}e^{23}, \frac{3}{8701} \sqrt{3686}e^{24},$ $\frac{3}{8701} \sqrt{5298}e^{15}, \frac{3}{8701} \sqrt{5870}e^{27}$	$(-\frac{81}{8701}, -\frac{3}{8701}, \frac{150}{8701}, -\frac{12}{1243}, \frac{69}{8701}, \frac{21}{1243}, -\frac{87}{8701}, -\frac{12}{8701}, -\frac{90}{8701})$ $+ \frac{6}{8701} \sqrt{1833}e^2 \otimes e_8 + \frac{6}{8701} \sqrt{2015}e^1 \otimes e_9$	{1257, 249}
9631:5	$0, 0, 0, \frac{1}{333} \sqrt{14586}e^{12}, \frac{2}{333} \sqrt{561}e^{13}, \frac{1}{333} \sqrt{14586}e^{23}, \frac{14}{333} \sqrt{187}e^{24},$ $\frac{14}{333} \sqrt{187}e^{15}, \frac{17}{333} \sqrt{110}e^{27}$	$(-\frac{71}{333}, \frac{8}{37}, \frac{3}{37}, \frac{1}{333}, -\frac{44}{333}, \frac{11}{37}, \frac{73}{333}, -\frac{115}{333}, \frac{145}{333})$ $+ \frac{1}{333} \sqrt{102102}e^2 \otimes e_8$	{12357, 14789, 2349, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:5	$0, 0, 0, \frac{38}{3773}\sqrt{311}e^{12}, \frac{76}{3773}\sqrt{141}e^{13}, \frac{76}{3773}\sqrt{151}e^{23}, \frac{76}{3773}\sqrt{137}e^{24},$ $\frac{38}{3773}\sqrt{853}e^{15}, \frac{76}{3773}\sqrt{290}e^{27}$	$(-\frac{646}{3773}, \frac{247}{3773}, \frac{817}{3773}, -\frac{57}{539}, \frac{171}{3773}, \frac{152}{539}, -\frac{152}{3773}, -\frac{475}{3773}, \frac{95}{3773})$ $+\frac{190}{3773}\sqrt{61}e^3 \otimes e_9 + \frac{76}{3773}\sqrt{447}e^2 \otimes e_8$	{124569, 1368}
9631:6	$0, 0, 0, -\frac{15}{389}\sqrt{178}e^{12}, \frac{15}{389}\sqrt{134}e^{13}, \frac{135}{389}\sqrt{3}e^{23}, \frac{15}{389}\sqrt{37}e^{14},$ $\frac{120}{389}\sqrt{2}e^{24} + \frac{15}{389}\sqrt{221}e^{35}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{15}{389}, \frac{15}{389}, \frac{180}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+\frac{15}{389}\sqrt{661}e^3 \otimes e_9$	{1245689, 13678, 235, 479, 1245689, 13678, 235, 479}
9631:6	$0, 0, 0, \frac{15}{389}\sqrt{178}e^{12}, \frac{15}{389}\sqrt{134}e^{13}, \frac{135}{389}\sqrt{3}e^{23}, \frac{15}{389}\sqrt{37}e^{14},$ $\frac{120}{389}\sqrt{2}e^{24} + \frac{15}{389}\sqrt{221}e^{35}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{15}{389}, \frac{15}{389}, \frac{180}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+\frac{15}{389}\sqrt{661}e^3 \otimes e_9$	{1245689, 13678, 235, 479, 1245689, 13678, 235, 479}
9631:6	$0, 0, 0, -\frac{15}{778}\sqrt{610}e^{12}, \frac{15}{778}\sqrt{786}e^{13}, \frac{135}{389}\sqrt{3}e^{23}, \frac{15}{389}\sqrt{37}e^{14},$ $\frac{135}{778}\sqrt{10}e^{24} + \frac{15}{778}\sqrt{438}e^{35}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{15}{389}, \frac{15}{389}, \frac{180}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+\frac{15}{389}\sqrt{661}e^2 \otimes e_9$	{123578, 12678, 1345689, 1489, 123578, 12678, 1345689, 1489}
9631:6	$0, 0, 0, \frac{15}{778}\sqrt{610}e^{12}, \frac{15}{778}\sqrt{786}e^{13}, \frac{135}{389}\sqrt{3}e^{23}, \frac{15}{389}\sqrt{37}e^{14},$ $\frac{135}{778}\sqrt{10}e^{24} + \frac{15}{778}\sqrt{438}e^{35}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{15}{389}, \frac{15}{389}, \frac{180}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+\frac{15}{389}\sqrt{661}e^2 \otimes e_9$	{123578, 12678, 1345689, 1489, 123578, 12678, 1345689, 1489}
9631:8	$0, 0, 0, \frac{8}{527}\sqrt{534}e^{12}, \frac{8}{527}\sqrt{1374}e^{13}, \frac{8}{527}\sqrt{526}e^{23}, \frac{24}{527}\sqrt{66}e^{24},$ $\frac{24}{527}\sqrt{106}e^{14} + \frac{16}{527}\sqrt{299}e^{35}, \frac{32}{527}\sqrt{66}e^{27}$	$(\frac{104}{527}, -\frac{72}{527}, \frac{16}{527}, \frac{32}{527}, \frac{120}{527}, -\frac{56}{527}, -\frac{40}{527}, \frac{8}{31}, -\frac{112}{527})$ $+\frac{8}{527}\sqrt{1806}e^3 \otimes e_9$	{124589, 4679}
9631:8	$0, 0, 0, \frac{6}{73}\sqrt{30}e^{12}, \frac{18}{73}\sqrt{3}e^{13}, \frac{54}{73}e^{23}, \frac{6}{73}\sqrt{51}e^{24},$ $\frac{3}{73}\sqrt{318}e^{14} + \frac{6}{73}\sqrt{51}e^{35}, \frac{3}{73}\sqrt{138}e^{27}$	$(\frac{18}{73}, -\frac{12}{73}, \frac{3}{73}, \frac{6}{73}, \frac{21}{73}, -\frac{9}{73}, -\frac{6}{73}, \frac{24}{73}, -\frac{18}{73})$ $+\frac{6}{73}\sqrt{102}e^1 \otimes e_6$	{12358, 367}
9631:8	$0, 0, 0, \frac{17}{1435}\sqrt{1806}e^{12}, \frac{204}{1435}\sqrt{19}e^{13}, \frac{51}{1435}\sqrt{302}e^{23},$ $\frac{17}{1435}\sqrt{966}e^{24}, \frac{51}{1435}\sqrt{146}e^{14} + \frac{17}{1435}\sqrt{966}e^{35}, \frac{391}{1435}\sqrt{6}e^{27}$	$(\frac{459}{1435}, -\frac{289}{1435}, \frac{17}{287}, \frac{34}{287}, \frac{544}{1435}, -\frac{204}{1435}, -\frac{17}{205}, \frac{629}{1435}, -\frac{408}{1435})$ $+\frac{34}{1435}\sqrt{1779}e^1 \otimes e_9$	{123678, 12578}
9631:10	$0, 0, 0, \frac{3}{142}\sqrt{770}e^{12}, \frac{3}{142}\sqrt{798}e^{13}, \frac{9}{71}\sqrt{14}e^{23}, \frac{3}{142}\sqrt{623}e^{14},$ $\frac{3}{142}\sqrt{798}e^{15}, \frac{3}{142}\sqrt{770}e^{17} + \frac{9}{71}\sqrt{14}e^{35}$	$(-\frac{21}{142}, \frac{51}{142}, \frac{9}{284}, \frac{15}{71}, \frac{33}{284}, \frac{111}{284}, \frac{9}{142}, -\frac{75}{284}, -\frac{6}{71})$ $+\frac{21}{142}\sqrt{35}e^2 \otimes e_9$	{123578, 1267}
9631:10	$0, 0, 0, \frac{84}{2081}e^{12}, \frac{294}{2081}e^{13}, \frac{84}{2081}\sqrt{227}e^{23}, \frac{42}{2081}\sqrt{559}e^{14},$ $\frac{42}{2081}\sqrt{453}e^{15}, \frac{42}{2081}\sqrt{757}e^{17} + \frac{42}{2081}\sqrt{598}e^{35}$	$(\frac{357}{2081}, -\frac{588}{2081}, \frac{63}{2081}, -\frac{231}{2081}, \frac{420}{2081}, -\frac{525}{2081}, \frac{126}{2081}, \frac{777}{2081}, \frac{483}{2081})$ $+\frac{42}{2081}\sqrt{1757}e^1 \otimes e_6$	{1489, 36}
9631:10	$0, 0, 0, \frac{28}{485}\sqrt{53}e^{12}, \frac{196}{485}e^{13}, \frac{28}{485}\sqrt{194}e^{23}, \frac{28}{485}\sqrt{22}e^{14},$ $\frac{28}{485}\sqrt{187}e^{15}, \frac{28}{485}\sqrt{6}e^{17} + \frac{28}{485}\sqrt{101}e^{35}$	$(-\frac{91}{485}, \frac{238}{485}, \frac{28}{485}, \frac{147}{485}, -\frac{63}{485}, \frac{266}{485}, \frac{56}{485}, -\frac{154}{485}, -\frac{7}{97})$ $+\frac{28}{485}\sqrt{413}e^2 \otimes e_8$	{14789, 578}
9631:11	$0, 0, 0, \frac{14}{613}\sqrt{57}e^{12}, \frac{196}{613}\sqrt{3}e^{13}, \frac{175}{613}\sqrt{6}e^{23}, \frac{21}{613}\sqrt{74}e^{24},$ $\frac{14}{613}\sqrt{1074}e^{15}, \frac{28}{613}\sqrt{3}e^{27} + \frac{7}{613}\sqrt{2082}e^{35}$	$(\frac{231}{613}, -\frac{84}{613}, -\frac{126}{613}, \frac{147}{613}, \frac{105}{613}, -\frac{210}{613}, \frac{63}{613}, \frac{336}{613}, -\frac{21}{613})$ $+\frac{7}{613}\sqrt{9282}e^1 \otimes e_6$	{1238, 24679}
9631:11	$0, 0, 0, \frac{49}{5679}\sqrt{78}e^{12}, \frac{196}{5679}\sqrt{21}e^{13}, \frac{49}{5679}\sqrt{2670}e^{23},$ $\frac{196}{5679}\sqrt{181}e^{24}, \frac{1078}{5679}\sqrt{10}e^{15}, \frac{245}{5679}\sqrt{158}e^{27} + \frac{98}{631}\sqrt{10}e^{35}$	$(-\frac{1421}{5679}, \frac{98}{631}, \frac{147}{631}, -\frac{539}{5679}, -\frac{98}{5679}, \frac{245}{631}, \frac{343}{5679}, -\frac{1519}{5679}, \frac{1225}{5679})$ $+\frac{49}{5679}\sqrt{9618}e^2 \otimes e_8$	{14789, 58}
9631:13	$0, 0, 0, \frac{140}{3301}\sqrt{30}e^{12}, \frac{70}{3301}\sqrt{403}e^{13}, \frac{105}{3301}\sqrt{322}e^{23}, \frac{840}{3301}\sqrt{3}e^{14},$ $\frac{210}{3301}\sqrt{69}e^{15} + \frac{35}{3301}\sqrt{3566}e^{36}, \frac{315}{3301}\sqrt{46}e^{17}$	$(\frac{105}{3301}, -\frac{665}{3301}, \frac{875}{3301}, -\frac{560}{3301}, \frac{980}{3301}, \frac{210}{3301}, -\frac{455}{3301}, \frac{1085}{3301}, -\frac{350}{3301})$ $+\frac{35}{3301}\sqrt{5514}e^3 \otimes e_9$	{238, 4579}
9631:13	$0, 0, 0, \frac{8}{1087}\sqrt{51}e^{12}, \frac{3}{1087}\sqrt{682}e^{13}, \frac{6}{1087}\sqrt{87}e^{23}, \frac{2}{1087}\sqrt{1011}e^{14},$ $\frac{3}{1087}\sqrt{566}e^{15} + \frac{2}{1087}\sqrt{1011}e^{36}, \frac{1}{1087}\sqrt{4830}e^{17}$	$(-\frac{1}{1087}, \frac{21}{1087}, -\frac{23}{1087}, \frac{20}{1087}, -\frac{24}{1087}, -\frac{2}{1087}, \frac{19}{1087}, -\frac{25}{1087}, \frac{18}{1087})$ $+\frac{1}{1087}\sqrt{5622}e^2 \otimes e_9$	{123578, 149}
9631:14	$0, 0, 0, \frac{32}{821}\sqrt{197}e^{12}, \frac{32}{821}\sqrt{178}e^{13}, \frac{16}{821}\sqrt{874}e^{23}, \frac{16}{821}\sqrt{58}e^{14},$ $\frac{224}{821}e^{26} + \frac{48}{821}\sqrt{82}e^{35}, \frac{64}{821}\sqrt{70}e^{17}$	$(-\frac{112}{821}, \frac{64}{821}, \frac{240}{821}, -\frac{48}{821}, \frac{128}{821}, \frac{304}{821}, -\frac{160}{821}, \frac{368}{821}, -\frac{272}{821})$ $+\frac{16}{821}\sqrt{2746}e^3 \otimes e_9$	{123478, 2679}
9631:14	$0, 0, 0, \frac{90}{6493}\sqrt{130}e^{12}, \frac{270}{6493}\sqrt{118}e^{13}, \frac{135}{6493}\sqrt{794}e^{23},$ $\frac{90}{6493}\sqrt{506}e^{14}, \frac{45}{6493}\sqrt{5730}e^{26} + \frac{90}{6493}\sqrt{921}e^{35}, \frac{45}{6493}\sqrt{5918}e^{17}$	$(-\frac{675}{6493}, \frac{315}{6493}, \frac{1305}{6493}, -\frac{360}{6493}, \frac{630}{6493}, \frac{1620}{6493}, -\frac{1035}{6493}, \frac{45}{151}, -\frac{1710}{6493})$ $+\frac{45}{6493}\sqrt{11162}e^2 \otimes e_9$	{256, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:15	$0, 0, 0, \frac{73}{6157} \sqrt{3982} e^{12}, \frac{584}{6157} \sqrt{30} e^{13}, \frac{73}{6157} \sqrt{2346} e^{23},$ $\frac{73}{6157} \sqrt{1378} e^{14}, \frac{73}{6157} \sqrt{3214} e^{35}, \frac{73}{6157} \sqrt{58} e^{17} + \frac{73}{6157} \sqrt{326} e^{36}$	$(-\frac{584}{6157}, \frac{2993}{6157}, -\frac{876}{6157}, \frac{2409}{6157}, -\frac{1460}{6157}, \frac{2117}{6157}, \frac{1825}{6157}, -\frac{2336}{6157}, \frac{1241}{323})$ $+ \frac{730}{6157} \sqrt{101} e^2 \otimes e_8$	{123579, 12679}
9631:16	$0, 0, 0, \frac{4}{119} \sqrt{105} e^{12}, \frac{4}{119} \sqrt{105} e^{13}, \frac{2}{119} \sqrt{595} e^{23}, \frac{1}{119} \sqrt{3570} e^{24},$ $\frac{5}{119} \sqrt{182} e^{35}, \frac{1}{119} \sqrt{3990} e^{27} + \frac{2}{17} \sqrt{15} e^{36}$	$(-\frac{4}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{3}{119} \sqrt{770} e^2 \otimes e_8$	{234569, 249}
9631:16	$0, 0, 0, \frac{34}{1363} \sqrt{411} e^{12}, \frac{17}{1363} \sqrt{3270} e^{13}, \frac{51}{1363} \sqrt{366} e^{23},$ $\frac{17}{1363} \sqrt{1590} e^{24}, \frac{204}{1363} \sqrt{11} e^{35}, \frac{17}{1363} \sqrt{3270} e^{27} + \frac{51}{1363} \sqrt{2} e^{36}$	$(\frac{544}{1363}, -\frac{289}{1363}, -\frac{17}{1363}, \frac{255}{1363}, \frac{527}{1363}, -\frac{306}{1363}, -\frac{34}{1363}, \frac{510}{1363}, -\frac{323}{1363})$ $+ \frac{17}{1363} \sqrt{6702} e^1 \otimes e_9$	{123678, 12578}
9631:17	$0, 0, 0, \frac{11}{289} \sqrt{30} e^{12}, \frac{11}{578} \sqrt{82} e^{13}, \frac{99}{289} \sqrt{3} e^{23}, \frac{11}{289} \sqrt{215} e^{14},$ $\frac{11}{289} \sqrt{114} e^{15} + \frac{11}{578} \sqrt{642} e^{24}, \frac{11}{578} \sqrt{606} e^{17}$	$(\frac{44}{289}, -\frac{11}{289}, -\frac{66}{289}, \frac{33}{289}, -\frac{22}{289}, -\frac{77}{289}, \frac{77}{289}, \frac{22}{289}, \frac{121}{289})$ $+ \frac{55}{578} \sqrt{78} e^1 \otimes e_6$	{12357, 2456789}
9631:17	$0, 0, 0, \frac{319}{1093} \sqrt{5} e^{12}, \frac{145}{1093} \sqrt{15} e^{13}, \frac{29}{1093} \sqrt{883} e^{23}, \frac{29}{1093} \sqrt{21} e^{14},$ $\frac{29}{1093} \sqrt{130} e^{15} + \frac{29}{1093} \sqrt{233} e^{24}, \frac{29}{1093} \sqrt{762} e^{17}$	$(-\frac{174}{1093}, \frac{145}{1093}, \frac{464}{1093}, -\frac{29}{1093}, \frac{290}{1093}, \frac{609}{1093}, -\frac{203}{1093}, \frac{116}{1093}, -\frac{377}{1093})$ $+ \frac{29}{1093} \sqrt{1851} e^3 \otimes e_9$	{13678, 479}
9631:17	$0, 0, 0, \frac{26}{1455} \sqrt{789} e^{12}, \frac{13}{1455} \sqrt{3306} e^{13}, \frac{26}{1455} \sqrt{501} e^{23},$ $\frac{26}{1455} \sqrt{429} e^{14}, \frac{13}{1455} \sqrt{3594} e^{15} + \frac{26}{1455} \sqrt{717} e^{24}, \frac{13}{485} \sqrt{462} e^{17}$	$(-\frac{169}{1455}, \frac{39}{485}, \frac{403}{1455}, -\frac{52}{1455}, \frac{78}{485}, \frac{104}{291}, -\frac{221}{1455}, \frac{13}{291}, -\frac{26}{97})$ $+ \frac{39}{485} \sqrt{94} e^2 \otimes e_9$	{123578, 1345689}
9631:18	$0, 0, 0, \frac{3}{82} \sqrt{26} e^{12}, -\frac{3}{82} \sqrt{78} e^{13}, \frac{9}{41} \sqrt{2} e^{23}, \frac{3}{82} \sqrt{59} e^{14},$ $\frac{3}{82} \sqrt{78} e^{15} + \frac{9}{41} \sqrt{2} e^{26}, \frac{21}{82} \sqrt{2} e^{17}$	$(-\frac{3}{82}, -\frac{3}{82}, \frac{27}{164}, -\frac{3}{41}, \frac{21}{164}, \frac{21}{164}, -\frac{9}{82}, \frac{15}{164}, -\frac{6}{41})$ $+ \frac{3}{82} \sqrt{143} e^2 \otimes e_9$	{123578, 1267, 1345689, 149, 123578, 1267, 1345689, 149}
9631:18	$0, 0, 0, \frac{3}{82} \sqrt{26} e^{12}, \frac{3}{82} \sqrt{78} e^{13}, \frac{9}{41} \sqrt{2} e^{23}, \frac{3}{82} \sqrt{59} e^{14},$ $\frac{3}{82} \sqrt{78} e^{15} + \frac{9}{41} \sqrt{2} e^{26}, \frac{21}{82} \sqrt{2} e^{17}$	$(-\frac{3}{82}, -\frac{3}{82}, \frac{27}{164}, -\frac{3}{41}, \frac{21}{164}, \frac{21}{164}, -\frac{9}{82}, \frac{15}{164}, -\frac{6}{41})$ $+ \frac{3}{82} \sqrt{143} e^2 \otimes e_9$	{123578, 1267, 1345689, 149, 123578, 1267, 1345689, 149}
9631:20	$0, 0, 0, \frac{36}{277} e^{12}, \frac{9}{277} \sqrt{130} e^{13}, \frac{45}{277} \sqrt{14} e^{23}, \frac{18}{277} \sqrt{73} e^{14},$ $\frac{9}{277} \sqrt{3} e^{24}, \frac{9}{277} \sqrt{286} e^{17} + \frac{9}{277} \sqrt{190} e^{35}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+ \frac{18}{277} \sqrt{122} e^1 \otimes e_6$	{149, 368}
9631:20	$0, 0, 0, \frac{204}{4813} \sqrt{161} e^{12}, \frac{51}{4813} \sqrt{1482} e^{13}, \frac{51}{4813} \sqrt{1230} e^{23},$ $\frac{102}{4813} \sqrt{29} e^{14}, \frac{102}{4813} \sqrt{690} e^{24}, \frac{255}{4813} \sqrt{86} e^{17} + \frac{51}{4813} \sqrt{2082} e^{35}$	$(-\frac{867}{4813}, \frac{1530}{4813}, -\frac{102}{4813}, \frac{663}{4813}, -\frac{969}{4813}, \frac{1428}{4813}, -\frac{204}{4813}, \frac{2193}{4813}, -\frac{1071}{4813})$ $+ \frac{2040}{4813} \sqrt{5} e^2 \otimes e_9$	{123578, 12678}
9631:20	$0, 0, 0, \frac{36}{277} e^{12}, \frac{9}{277} \sqrt{358} e^{13}, \frac{9}{277} \sqrt{138} e^{23}, \frac{126}{277} e^{14},$ $\frac{18}{277} \sqrt{74} e^{24}, \frac{9}{277} \sqrt{202} e^{17} + \frac{9}{277} \sqrt{298} e^{35}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+ \frac{18}{277} \sqrt{122} e^3 \otimes e_8$	{1456789, 357}
9631:21	$0, 0, 0, \frac{1586}{5859} e^{12}, \frac{122}{5859} \sqrt{382} e^{13}, \frac{122}{5859} \sqrt{935} e^{23}, \frac{122}{5859} \sqrt{505} e^{24},$ $\frac{61}{5859} \sqrt{4070} e^{14}, \frac{61}{5859} \sqrt{1490} e^{27} + \frac{122}{5859} \sqrt{789} e^{35}$	$(-\frac{1586}{5859}, \frac{122}{651}, \frac{61}{217}, -\frac{488}{5859}, \frac{61}{5859}, \frac{305}{651}, \frac{610}{5859}, -\frac{2074}{5859}, \frac{244}{837})$ $+ \frac{244}{5859} \sqrt{623} e^3 \otimes e_8$	{123479, 235}
9631:21	$0, 0, 0, \frac{62}{1443} \sqrt{191} e^{12}, \frac{248}{1443} e^{13}, \frac{124}{1443} \sqrt{70} e^{23}, \frac{62}{1443} \sqrt{158} e^{24},$ $\frac{31}{1443} \sqrt{1194} e^{14}, \frac{31}{1443} \sqrt{462} e^{27} + \frac{124}{1443} \sqrt{5} e^{35}$	$(\frac{496}{1443}, -\frac{62}{481}, -\frac{93}{481}, \frac{310}{1443}, \frac{217}{1443}, -\frac{155}{481}, \frac{124}{1443}, \frac{62}{111}, -\frac{62}{1443})$ $+ \frac{62}{1443} \sqrt{617} e^1 \otimes e_6$	{149, 367}
9631:22	$0, 0, 0, \frac{1}{23} \sqrt{66} e^{12}, \frac{3}{23} \sqrt{22} e^{13}, \frac{1}{23} \sqrt{11} e^{23}, \frac{3}{23} \sqrt{11} e^{14},$ $\frac{1}{23} \sqrt{165} e^{35}, \frac{1}{23} \sqrt{66} e^{17} + \frac{4}{23} \sqrt{11} e^{24}$	$(-\frac{1}{23}, -\frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, \frac{5}{23}, \frac{4}{23}, -\frac{4}{23}, \frac{11}{23}, -\frac{5}{23})$ $+ \frac{1}{23} \sqrt{429} e^3 \otimes e_9$	{123478, 2679}
9631:22	$0, 0, 0, \frac{387}{3997} \sqrt{46} e^{12}, \frac{172}{3997} \sqrt{66} e^{13}, \frac{43}{3997} \sqrt{1510} e^{23},$ $\frac{172}{3997} \sqrt{93} e^{14}, \frac{516}{3997} \sqrt{22} e^{35}, \frac{43}{3997} \sqrt{2730} e^{17} + \frac{43}{3997} \sqrt{4574} e^{24}$	$(\frac{43}{571}, \frac{86}{571}, -\frac{774}{3997}, \frac{129}{571}, -\frac{473}{3997}, -\frac{172}{3997}, \frac{172}{3997}, -\frac{1247}{3997}, \frac{215}{571})$ $+ \frac{86}{3997} \sqrt{1707} e^2 \otimes e_8$	{134789, 1456789}
9631:22	$0, 0, 0, \frac{14}{949} \sqrt{15} e^{12}, \frac{14}{949} \sqrt{178} e^{13}, \frac{7}{949} \sqrt{1466} e^{23}, \frac{14}{949} \sqrt{326} e^{14},$ $\frac{7}{949} \sqrt{426} e^{35}, \frac{14}{949} \sqrt{331} e^{17} + \frac{7}{949} \sqrt{1302} e^{24}$	$(\frac{21}{949}, \frac{42}{949}, -\frac{70}{949}, \frac{63}{949}, -\frac{49}{949}, -\frac{28}{949}, \frac{84}{949}, -\frac{119}{949}, \frac{105}{949})$ $+ \frac{21}{949} \sqrt{190} e^1 \otimes e_6$	{1234589, 256}
9631:23	$0, 0, 0, \frac{15}{1333} \sqrt{1554} e^{12}, \frac{15}{1333} \sqrt{2694} e^{13}, \frac{15}{1333} \sqrt{582} e^{23}, \frac{45}{1333} \sqrt{6} e^{24},$ $\frac{30}{1333} \sqrt{618} e^{35}, \frac{15}{1333} \sqrt{222} e^{14} + \frac{15}{1333} \sqrt{2694} e^{27}$	$(-\frac{120}{1333}, -\frac{60}{1333}, \frac{375}{1333}, -\frac{180}{1333}, \frac{255}{1333}, \frac{315}{1333}, -\frac{240}{1333}, \frac{630}{1333}, -\frac{300}{1333})$ $+ \frac{15}{1333} \sqrt{6690} e^3 \otimes e_9$	{123478, 15789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:23	$0, 0, 0, \frac{4}{119}\sqrt{105}e^{12}, \frac{4}{119}\sqrt{105}e^{13}, \frac{2}{119}\sqrt{595}e^{23}, \frac{5}{119}\sqrt{182}e^{24},$ $\frac{1}{119}\sqrt{3570}e^{35}, \frac{2}{17}\sqrt{15}e^{14} + \frac{1}{119}\sqrt{3990}e^{27}$	$(\frac{2}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{5}{17})$ $+ \frac{3}{119}\sqrt{770}e^2 \otimes e_8$	{134789, 1456789}
9631:23	$0, 0, 0, \frac{20}{647}\sqrt{165}e^{12}, \frac{5}{647}\sqrt{2290}e^{13}, \frac{10}{647}\sqrt{1295}e^{23}, \frac{10}{647}\sqrt{865}e^{24},$ $\frac{90}{647}\sqrt{5}e^{35}, \frac{20}{647}\sqrt{345}e^{14} + \frac{10}{647}\sqrt{1085}e^{27}$	$(\frac{60}{647}, \frac{30}{647}, -\frac{95}{647}, \frac{90}{647}, -\frac{35}{647}, -\frac{65}{647}, \frac{120}{647}, -\frac{130}{647}, \frac{150}{647})$ $+ \frac{25}{647}\sqrt{246}e^1 \otimes e_6$	{245679, 367}
9631:24	$0, 0, 0, \frac{1005}{5357}\sqrt{10}e^{12}, \frac{1675}{5357}\sqrt{2}e^{13}, \frac{67}{5357}\sqrt{3238}e^{23},$ $\frac{134}{5357}\sqrt{15}e^{14}, \frac{97}{5357}\sqrt{3274}e^{15}, \frac{67}{5357}\sqrt{1298}e^{17} + \frac{134}{5357}\sqrt{366}e^{36}$	$(-\frac{536}{5357}, \frac{2613}{5357}, \frac{804}{5357}, \frac{2077}{5357}, \frac{1340}{5357}, \frac{1809}{5357}, \frac{1541}{5357}, -\frac{1876}{5357}, \frac{1005}{5357})$ $+ \frac{67}{5357}\sqrt{8870}e^2 \otimes e_8$	{2349, 578}
9631:25	$0, 0, 0, \frac{9}{178}\sqrt{26}e^{12}, \frac{9}{178}\sqrt{130}e^{13}, \frac{9}{178}\sqrt{23}e^{23}, \frac{9}{178}\sqrt{51}e^{24},$ $\frac{9}{178}\sqrt{110}e^{15}, \frac{9}{178}\sqrt{130}e^{27} + \frac{18}{89}\sqrt{2}e^{36}$	$(\frac{45}{178}, -\frac{27}{178}, -\frac{9}{356}, \frac{9}{89}, \frac{81}{356}, -\frac{63}{356}, -\frac{9}{178}, \frac{171}{356}, -\frac{18}{89})$ $+ \frac{9}{178}\sqrt{295}e^1 \otimes e_9$	{123678, 1257}
9631:25	$0, 0, 0, \frac{60}{643}\sqrt{14}e^{12}, \frac{12}{643}\sqrt{10}e^{13}, \frac{60}{643}\sqrt{14}e^{23}, \frac{12}{643}\sqrt{955}e^{24},$ $\frac{12}{643}\sqrt{955}e^{15}, \frac{12}{643}\sqrt{870}e^{27} + \frac{12}{643}\sqrt{95}e^{36}$	$(-\frac{144}{643}, \frac{138}{643}, \frac{66}{643}, -\frac{6}{643}, -\frac{78}{643}, \frac{204}{643}, \frac{132}{643}, -\frac{222}{643}, \frac{270}{643})$ $+ \frac{48}{643}\sqrt{165}e^2 \otimes e_8$	{12357, 14789}
9631:26	$0, 0, 0, \frac{144}{3851}\sqrt{221}e^{12}, \frac{72}{3851}\sqrt{322}e^{13}, \frac{288}{3851}\sqrt{47}e^{23},$ $\frac{72}{3851}\sqrt{331}e^{14}, \frac{72}{3851}\sqrt{1033}e^{35}, \frac{72}{3851}\sqrt{330}e^{17} + \frac{72}{3851}\sqrt{1099}e^{26}$	$(\frac{108}{3851}, \frac{1116}{3851}, -\frac{792}{3851}, \frac{1224}{3851}, -\frac{684}{3851}, \frac{324}{3851}, \frac{1332}{3851}, -\frac{1476}{3851}, \frac{1440}{3851})$ $+ \frac{144}{3851}\sqrt{795}e^2 \otimes e_8$	{123579, 3689}
9631:31	$0, 0, 0, \frac{62}{2393}\sqrt{235}e^{12}, \frac{62}{2393}\sqrt{230}e^{13}, \frac{124}{2393}\sqrt{254}e^{23},$ $\frac{62}{2393}\sqrt{530}e^{24}, \frac{62}{2393}\sqrt{922}e^{14}, \frac{62}{2393}\sqrt{73}e^{15} + \frac{124}{2393}\sqrt{30}e^{27}$	$(-\frac{496}{2393}, \frac{217}{2393}, \frac{1147}{2393}, -\frac{279}{2393}, \frac{651}{2393}, \frac{1364}{2393}, -\frac{62}{2393}, -\frac{775}{2393}, \frac{155}{2393})$ $+ \frac{62}{2393}\sqrt{2045}e^3 \otimes e_8$	{235, 489}
9631:32	$0, 0, 0, \frac{40}{1163}\sqrt{273}e^{12}, \frac{40}{1163}\sqrt{462}e^{13}, \frac{40}{1163}\sqrt{201}e^{23}, \frac{40}{1163}\sqrt{285}e^{14},$ $\frac{40}{1163}\sqrt{201}e^{15}, \frac{40}{1163}\sqrt{134}e^{17} + \frac{40}{1163}\sqrt{371}e^{24}$	$(-\frac{60}{1163}, -\frac{120}{1163}, \frac{500}{1163}, -\frac{180}{1163}, \frac{440}{1163}, \frac{380}{1163}, -\frac{240}{1163}, \frac{380}{1163}, -\frac{300}{1163})$ $+ \frac{80}{1163}\sqrt{246}e^3 \otimes e_9$	{123478, 2679}
9631:32	$0, 0, 0, \frac{16}{1157}\sqrt{69}e^{12}, \frac{112}{1157}\sqrt{10}e^{13}, \frac{16}{1157}\sqrt{795}e^{23}, \frac{16}{1157}\sqrt{893}e^{14},$ $\frac{240}{1157}e^{15}, \frac{16}{1157}\sqrt{870}e^{17} + \frac{16}{1157}\sqrt{807}e^{24}$	$(\frac{40}{1157}, \frac{80}{1157}, -\frac{168}{1157}, \frac{120}{1157}, -\frac{128}{1157}, -\frac{88}{1157}, \frac{160}{1157}, -\frac{88}{1157}, \frac{200}{1157})$ $+ \frac{32}{1157}\sqrt{255}e^1 \otimes e_6$	{123578, 245679}
9631:32	$0, 0, 0, \frac{3}{55}\sqrt{30}e^{12}, \frac{2}{55}\sqrt{130}e^{13}, \frac{1}{55}\sqrt{210}e^{23}, \frac{1}{55}\sqrt{710}e^{14},$ $\frac{2}{55}\sqrt{195}e^{15}, \frac{4}{11}\sqrt{2}e^{17} + \frac{2}{55}\sqrt{235}e^{24}$	$(\frac{1}{22}, \frac{1}{11}, -\frac{2}{11}, \frac{3}{22}, -\frac{3}{22}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{5}{22})$ $+ \frac{3}{55}\sqrt{110}e^2 \otimes e_8$	{134789, 3578}
9631:33	$0, 0, 0, \frac{4}{53}\sqrt{3}e^{12}, \frac{10}{53}e^{13}, \frac{4}{53}\sqrt{3}e^{23}, \frac{12}{53}e^{24}, \frac{12}{53}e^{15},$ $\frac{2}{53}\sqrt{43}e^{14} + \frac{4}{53}\sqrt{10}e^{27}$	$(\frac{2}{53}, \frac{1}{53}, -\frac{5}{53}, \frac{3}{53}, -\frac{3}{53}, -\frac{4}{53}, \frac{4}{53}, -\frac{1}{53}, \frac{5}{53})$ $+ \frac{6}{53}\sqrt{5}e^2 \otimes e_8$	{12459, 138}
9631:33	$0, 0, 0, \frac{156}{1097}\sqrt{14}e^{12}, \frac{52}{1097}\sqrt{85}e^{13}, \frac{26}{1097}\sqrt{705}e^{23}, \frac{338}{1097}\sqrt{3}e^{24},$ $\frac{26}{1097}\sqrt{105}e^{15}, \frac{52}{1097}\sqrt{227}e^{14} + \frac{390}{1097}\sqrt{3}e^{27}$	$(\frac{130}{1097}, \frac{65}{1097}, -\frac{273}{1097}, \frac{195}{1097}, -\frac{143}{1097}, -\frac{208}{1097}, \frac{260}{1097}, -\frac{13}{1097}, \frac{325}{1097})$ $+ \frac{26}{1097}\sqrt{1005}e^1 \otimes e_6$	{245679, 3678}
9631:33	$0, 0, 0, \frac{14}{137}\sqrt{35}e^{12}, \frac{28}{137}\sqrt{10}e^{13}, \frac{14}{137}\sqrt{34}e^{23}, \frac{14}{137}\sqrt{10}e^{24},$ $\frac{14}{137}\sqrt{13}e^{15}, \frac{42}{137}\sqrt{2}e^{14} + \frac{28}{137}\sqrt{10}e^{27}$	$(-\frac{14}{137}, -\frac{7}{137}, \frac{63}{137}, -\frac{21}{137}, \frac{49}{137}, \frac{56}{137}, -\frac{28}{137}, \frac{35}{137}, -\frac{35}{137})$ $+ \frac{14}{137}\sqrt{115}e^3 \otimes e_9$	{123478, 1579}
9631:34	$0, 0, 0, \frac{98}{4853}\sqrt{15}e^{12}, \frac{49}{4853}\sqrt{862}e^{13}, \frac{98}{4853}\sqrt{742}e^{23}, \frac{49}{4853}\sqrt{1326}e^{14},$ $\frac{49}{4853}\sqrt{4594}e^{15}, \frac{49}{4853}\sqrt{2690}e^{17} + \frac{98}{4853}\sqrt{1038}e^{26}$	$(\frac{49}{4853}, \frac{1323}{4853}, -\frac{1176}{4853}, \frac{1372}{4853}, -\frac{49}{4853}, \frac{147}{4853}, \frac{1421}{4853}, -\frac{1078}{4853}, \frac{1470}{4853})$ $+ \frac{1078}{4853}\sqrt{17}e^2 \otimes e_8$	{267, 345689}
9631:107	$0, 0, 0, \frac{7}{151}\sqrt{182}e^{12}, \frac{63}{151}\sqrt{2}e^{13}, \frac{63}{151}\sqrt{2}e^{23}, -\frac{21}{151}\sqrt{2}e^{14},$ $\frac{21}{151}\sqrt{2}e^{24}, \frac{14}{151}\sqrt{39}e^{17} + \frac{14}{151}\sqrt{39}e^{28}$	$(-\frac{7}{151}, -\frac{7}{151}, \frac{70}{151}, -\frac{14}{151}, \frac{63}{151}, \frac{63}{151}, -\frac{21}{151}, -\frac{21}{151}, -\frac{28}{151})$ $+ \frac{7}{151}\sqrt{514}e^3 \otimes e_9$	{123478, 1589, 3456, 123478, 1589, 3456}
9631:107	$0, 0, 0, \frac{7}{151}\sqrt{182}e^{12}, \frac{63}{151}\sqrt{2}e^{13}, \frac{63}{151}\sqrt{2}e^{23}, \frac{21}{151}\sqrt{2}e^{14},$ $\frac{21}{151}\sqrt{2}e^{24}, \frac{14}{151}\sqrt{39}e^{17} + \frac{14}{151}\sqrt{39}e^{28}$	$(-\frac{7}{151}, -\frac{7}{151}, \frac{70}{151}, -\frac{14}{151}, \frac{63}{151}, \frac{63}{151}, -\frac{21}{151}, -\frac{21}{151}, -\frac{28}{151})$ $+ \frac{7}{151}\sqrt{514}e^3 \otimes e_9$	{123478, 1589, 3456, 123478, 1589, 3456}
9631:107	$0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{41}e^{13}, \frac{6}{37}\sqrt{10}e^{23}, -\frac{8}{37}\sqrt{5}e^{14},$ $\frac{2}{37}\sqrt{51}e^{24}, \frac{2}{37}\sqrt{73}e^{17} + \frac{2}{37}\sqrt{58}e^{28}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $+ \frac{2}{37}\sqrt{131}e^1 \otimes e_6$	{12357, 149, 2456789, 368, 12357, 149, 2456789, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9631:107	$0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{41}e^{13}, \frac{6}{37}\sqrt{10}e^{23}, \frac{8}{37}\sqrt{5}e^{14},$ $\frac{2}{37}\sqrt{51}e^{24}, \frac{2}{37}\sqrt{73}e^{17} + \frac{2}{37}\sqrt{58}e^{28}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $+ \frac{2}{37}\sqrt{131}e^1 \otimes e_6$	{12357, 149, 2456789, 368, 12357, 149, 2456789, 368}
9631:132	$0, 0, 0, \frac{14}{197}\sqrt{2}e^{12}, \frac{21}{197}\sqrt{6}e^{13}, \frac{56}{197}\sqrt{5}e^{23}, \frac{7}{197}\sqrt{66}e^{24},$ $\frac{14}{197}\sqrt{65}e^{15}, \frac{1}{197}\sqrt{298}e^{18} + \frac{14}{197}\sqrt{42}e^{27}$	$(\frac{42}{197}, \frac{7}{197}, -\frac{63}{197}, \frac{49}{197}, -\frac{21}{197}, -\frac{56}{197}, \frac{56}{197}, \frac{21}{197}, \frac{63}{197})$ $+ \frac{21}{197}\sqrt{74}e^1 \otimes e_6$	{1238, 1459}
9631:132	$0, 0, 0, \frac{30}{263}\sqrt{33}e^{12}, \frac{10}{263}\sqrt{210}e^{13}, \frac{30}{263}\sqrt{26}e^{23}, \frac{60}{263}e^{24},$ $\frac{10}{263}\sqrt{141}e^{15}, \frac{10}{263}\sqrt{222}e^{18} + \frac{10}{263}\sqrt{210}e^{27}$	$(-\frac{50}{263}, \frac{5}{263}, \frac{115}{263}, -\frac{45}{263}, \frac{65}{263}, \frac{120}{263}, -\frac{40}{263}, \frac{15}{263}, -\frac{35}{263})$ $+ \frac{10}{263}\sqrt{663}e^3 \otimes e_9$	{123478, 1579}
9631:133	$0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{5}\sqrt{10}e^{13}, \frac{1}{5}\sqrt{14}e^{23}, \frac{1}{5}\sqrt{2}e^{24},$ $\frac{1}{5}\sqrt{2}e^{35}, \frac{2}{5}e^{27} + \frac{2}{5}e^{38}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{2}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{5}\sqrt{42}e^1 \otimes e_6$	{123, 1459}
9631:133	$0, 0, 0, \frac{3}{59}\sqrt{105}e^{12}, \frac{3}{59}\sqrt{105}e^{13}, \frac{9}{59}\sqrt{19}e^{23}, \frac{3}{59}\sqrt{78}e^{24},$ $\frac{3}{59}\sqrt{78}e^{35}, \frac{3}{59}\sqrt{105}e^{27} + \frac{3}{59}\sqrt{105}e^{38}$	$(\frac{24}{59}, -\frac{9}{59}, -\frac{9}{59}, \frac{15}{59}, \frac{15}{59}, -\frac{18}{59}, \frac{6}{59}, \frac{6}{59}, -\frac{3}{59})$ $+ \frac{3}{59}\sqrt{291}e^1 \otimes e_9$	{123678, 234569}
963:1	$0, 0, 0, \frac{66}{3665}\sqrt{5}e^{12}, \frac{176}{3665}\sqrt{5}e^{13}, \frac{22}{3665}\sqrt{1362}e^{23}, \frac{22}{3665}\sqrt{1298}e^{14},$ $\frac{22}{3665}\sqrt{786}e^{24}, \frac{22}{3665}\sqrt{237}e^{15}$	$(\frac{154}{3665}, -\frac{319}{3665}, \frac{231}{3665}, -\frac{33}{733}, \frac{77}{733}, -\frac{88}{3665}, -\frac{11}{3665}, -\frac{484}{3665}, \frac{539}{3665})$ $+ \frac{44}{3665}\sqrt{438}e^1 \otimes e_6 + \frac{66}{3665}\sqrt{179}e^3 \otimes e_7$	{24678, 35689}
963:1	$0, 0, 0, \frac{12}{2419}\sqrt{7289}e^{12}, \frac{8}{2419}\sqrt{10835}e^{13}, \frac{28}{2419}\sqrt{2955}e^{23},$ $\frac{4}{2419}\sqrt{136127}e^{14}, \frac{4}{2419}\sqrt{66783}e^{24}, \frac{4}{2419}\sqrt{91605}e^{15}$	$(\frac{710}{2419}, -\frac{320}{2419}, -\frac{546}{2419}, \frac{390}{2419}, \frac{4}{59}, -\frac{866}{2419}, \frac{1100}{2419}, \frac{70}{2419}, \frac{874}{2419})$ $+ \frac{4}{2419}\sqrt{395970}e^1 \otimes e_6$	{12379, 145, 24678, 35689}
963:1	$0, 0, 0, \frac{2}{47}\sqrt{95}e^{12}, \frac{2}{47}\sqrt{95}e^{13}, \frac{38}{47}e^{23}, \frac{6}{47}\sqrt{38}e^{14},$ $\frac{2}{47}\sqrt{190}e^{24}, \frac{2}{47}\sqrt{38}e^{15}$	$(-\frac{9}{47}, \frac{3}{47}, \frac{23}{47}, -\frac{6}{47}, \frac{14}{47}, \frac{26}{47}, -\frac{15}{47}, -\frac{3}{47}, \frac{5}{47})$ $+ \frac{4}{47}\sqrt{190}e^3 \otimes e_7$	{12348, 15789, 235, 479}
963:1	$0, 0, 0, \frac{24}{625}\sqrt{30}e^{12}, \frac{6}{625}\sqrt{105}e^{13}, \frac{12}{625}\sqrt{190}e^{23}, \frac{6}{625}\sqrt{185}e^{14},$ $\frac{12}{625}\sqrt{65}e^{24}, \frac{12}{625}\sqrt{205}e^{15}$	$(\frac{6}{125}, \frac{9}{125}, -\frac{21}{125}, \frac{3}{25}, -\frac{3}{25}, -\frac{12}{125}, \frac{21}{125}, \frac{24}{125}, -\frac{9}{125})$ $+ \frac{12}{125}\sqrt{14}e^1 \otimes e_6 + \frac{6}{625}\sqrt{1385}e^2 \otimes e_9$	{2467, 3569}
963:1	$0, 0, 0, \frac{2}{579}\sqrt{26187}e^{12}, \frac{10}{579}\sqrt{2233}e^{13}, \frac{2}{579}\sqrt{13601}e^{23}, \frac{4}{579}\sqrt{9338}e^{14},$ $\frac{116}{579}\sqrt{14}e^{24}, \frac{2}{579}\sqrt{27202}e^{15}$	$(-\frac{7}{579}, -\frac{27}{193}, \frac{79}{193}, -\frac{88}{579}, \frac{230}{579}, \frac{52}{193}, -\frac{95}{579}, -\frac{169}{579}, \frac{223}{579})$ $+ \frac{14}{579}\sqrt{2030}e^3 \otimes e_8$	{123479, 1369, 2678, 48}
963:1	$0, 0, 0, \frac{36}{2519}\sqrt{119}e^{12}, \frac{72}{2519}\sqrt{177}e^{13}, \frac{36}{2519}\sqrt{547}e^{23}, \frac{36}{2519}\sqrt{33}e^{14},$ $\frac{612}{2519}e^{24}, \frac{180}{2519}\sqrt{21}e^{15}$	$(\frac{342}{2519}, -\frac{432}{2519}, \frac{126}{2519}, -\frac{90}{2519}, \frac{468}{2519}, -\frac{306}{2519}, \frac{252}{2519}, -\frac{522}{2519}, \frac{810}{2519})$ $+ \frac{36}{2519}\sqrt{1138}e^1 \otimes e_6 + \frac{72}{2519}\sqrt{274}e^3 \otimes e_8$	{123479, 2678}
963:1	$0, 0, 0, \frac{2}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{5}e^{13}, \frac{2}{25}\sqrt{35}e^{23}, \frac{2}{25}\sqrt{10}e^{14},$ $\frac{2}{25}\sqrt{10}e^{24}, \frac{4}{25}\sqrt{5}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, \frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{2}{5}\sqrt{2}e^3 \otimes e_7 + \frac{4}{25}\sqrt{15}e^2 \otimes e_9$	{125678, 134689, 2467, 3569}
963:1	$0, 0, 0, \frac{2}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{5}e^{13}, \frac{2}{25}\sqrt{35}e^{23}, \frac{2}{25}\sqrt{10}e^{14},$ $\frac{2}{25}\sqrt{10}e^{24}, \frac{4}{25}\sqrt{5}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, \frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5})$ $- \frac{2}{5}\sqrt{2}e^3 \otimes e_7 + \frac{4}{25}\sqrt{15}e^2 \otimes e_9$	{125678, 134689, 2467, 3569}
963:1	$0, 0, 0, \frac{6}{625}\sqrt{115}e^{12}, \frac{42}{625}\sqrt{15}e^{13}, \frac{6}{625}\sqrt{445}e^{23}, \frac{6}{625}\sqrt{830}e^{14},$ $\frac{18}{625}\sqrt{130}e^{24}, \frac{6}{625}\sqrt{890}e^{15}$	$(-\frac{3}{25}, \frac{9}{125}, \frac{21}{125}, -\frac{6}{125}, \frac{6}{125}, \frac{6}{125}, -\frac{21}{125}, \frac{3}{125}, -\frac{9}{125})$ $+ \frac{12}{125}\sqrt{14}e^3 \otimes e_8 + \frac{12}{625}\sqrt{355}e^2 \otimes e_9$	{1369, 2678}
963:2	$0, 0, 0, \frac{78}{6133}\sqrt{870}e^{12}, \frac{78}{6133}\sqrt{86}e^{13}, \frac{39}{6133}\sqrt{2170}e^{23}, \frac{78}{6133}\sqrt{498}e^{14},$ $\frac{39}{6133}\sqrt{978}e^{24}, \frac{39}{6133}\sqrt{1642}e^{35}$	$(\frac{741}{6133}, \frac{234}{6133}, -\frac{1014}{6133}, \frac{975}{6133}, -\frac{273}{6133}, -\frac{780}{6133}, \frac{1716}{6133}, \frac{1209}{6133}, -\frac{1287}{6133})$ $+ \frac{39}{6133}\sqrt{5170}e^1 \otimes e_6 + \frac{78}{6133}\sqrt{1414}e^2 \otimes e_9$	{123578, 369}
963:2	$0, 0, 0, \frac{4}{1383}\sqrt{36815}e^{12}, \frac{2}{1383}\sqrt{12935}e^{13}, \frac{1}{1383}\sqrt{933310}e^{23},$ $\frac{10}{461}\sqrt{1194}e^{14}, \frac{1}{1383}\sqrt{523370}e^{24}, \frac{1}{1383}\sqrt{165170}e^{35}$	$(\frac{521}{1383}, -\frac{94}{461}, -\frac{64}{461}, \frac{239}{1383}, \frac{329}{1383}, -\frac{158}{461}, \frac{760}{1383}, -\frac{43}{1383}, \frac{137}{1383})$ $+ \frac{1}{1383}\sqrt{2314370}e^1 \otimes e_6$	{1237, 145, 246789, 35689}
963:2	$0, 0, 0, \frac{4}{175}\sqrt{165}e^{12}, \frac{36}{175}\sqrt{11}e^{13}, \frac{2}{175}\sqrt{418}e^{23}, \frac{2}{175}\sqrt{1914}e^{14},$ $\frac{8}{175}\sqrt{209}e^{24}, \frac{2}{175}\sqrt{2706}e^{35}$	$(\frac{4}{175}, -\frac{1}{7}, \frac{6}{25}, -\frac{3}{25}, \frac{46}{175}, \frac{17}{175}, -\frac{17}{175}, -\frac{46}{175}, \frac{88}{175})$ $+ \frac{66}{175}\sqrt{6}e^3 \otimes e_8$	{1234679, 139, 278, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
963:2	$0, 0, 0, \frac{2}{2789}\sqrt{245379}e^{12}, \frac{2}{2789}\sqrt{418917}e^{13}, \frac{2}{2789}\sqrt{732405}e^{23},$ $\frac{4}{2789}\sqrt{214590}e^{14}, \frac{12}{2789}\sqrt{10885}e^{24}, \frac{4}{2789}\sqrt{155811}e^{35}$	$(-\frac{661}{2789}, \frac{343}{2789}, \frac{887}{2789}, -\frac{318}{2789}, \frac{226}{2789}, \frac{1230}{2789}, -\frac{979}{2789}, \frac{25}{2789}, \frac{1113}{2789})$ $+\frac{4}{2789}\sqrt{546738}e^3 \otimes e_7$	{123489, 15789, 235, 47}
963:2	$0, 0, 0, \frac{418}{2941}\sqrt{3}e^{12}, \frac{38}{2941}\sqrt{137}e^{13}, \frac{38}{2941}\sqrt{445}e^{23}, \frac{76}{2941}\sqrt{101}e^{14},$ $\frac{38}{2941}\sqrt{274}e^{24}, \frac{304}{2941}\sqrt{13}e^{35}$	$(-\frac{551}{2941}, \frac{589}{2941}, \frac{209}{2941}, \frac{38}{2941}, -\frac{342}{2941}, \frac{798}{2941}, -\frac{513}{2941}, \frac{627}{2941}, -\frac{133}{2941})$ $+\frac{38}{2941}\sqrt{1270}e^3 \otimes e_7 + \frac{38}{2941}\sqrt{1318}e^2 \otimes e_9$	{134689, 2467}
963:2	$0, 0, 0, \frac{46}{8355}\sqrt{155}e^{12}, \frac{23}{8355}\sqrt{1370}e^{13}, \frac{46}{8355}\sqrt{1423}e^{23},$ $\frac{92}{8355}\sqrt{393}e^{14}, \frac{46}{8355}\sqrt{881}e^{24}, \frac{92}{8355}\sqrt{73}e^{35}$	$(\frac{322}{8355}, -\frac{46}{557}, \frac{161}{2785}, -\frac{368}{8355}, \frac{161}{1671}, -\frac{69}{2785}, -\frac{46}{8355}, -\frac{1058}{8355}, \frac{1288}{8355})$ $+\frac{391}{8355}\sqrt{26}e^1 \otimes e_6 + \frac{46}{8355}\sqrt{1947}e^3 \otimes e_7$	{24678, 3568}
963:2	$0, 0, 0, \frac{36}{277}e^{12}, \frac{18}{277}\sqrt{39}e^{13}, \frac{72}{277}e^{23}, \frac{9}{277}\sqrt{6}e^{14},$ $\frac{9}{277}\sqrt{94}e^{24}, \frac{36}{277}\sqrt{6}e^{35}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+\frac{9}{277}\sqrt{202}e^1 \otimes e_6 + \frac{9}{277}\sqrt{286}e^3 \otimes e_8$	{14589, 356}
963:2	$0, 0, 0, \frac{1}{159}\sqrt{102}e^{12}, \frac{1}{159}\sqrt{213}e^{13}, \frac{1}{106}\sqrt{10}e^{23}, \frac{1}{106}\sqrt{74}e^{14},$ $\frac{1}{159}\sqrt{381}e^{24}, \frac{1}{318}\sqrt{1302}e^{35}$	$(-\frac{3}{53}, \frac{2}{53}, \frac{2}{53}, -\frac{1}{53}, -\frac{1}{53}, \frac{4}{53}, -\frac{4}{53}, \frac{1}{53}, \frac{1}{53})$ $+\frac{1}{159}\sqrt{402}e^2 \otimes e_9 + \frac{1}{318}\sqrt{1830}e^3 \otimes e_8$	{1456789, 23456}
963:2	$0, 0, 0, \frac{2}{581}\sqrt{36381}e^{12}, \frac{6}{581}\sqrt{543}e^{13}, \frac{2}{581}\sqrt{905}e^{23}, \frac{4}{581}\sqrt{1086}e^{14},$ $\frac{20}{581}\sqrt{362}e^{24}, \frac{16}{581}\sqrt{543}e^{35}$	$(-\frac{7}{83}, \frac{25}{83}, -\frac{69}{581}, \frac{18}{83}, \frac{118}{581}, \frac{106}{83}, \frac{11}{83}, \frac{43}{83}, -\frac{187}{581})$ $+\frac{8}{581}\sqrt{5430}e^2 \otimes e_9$	{12358, 1268, 3679, 579}
963:4	$0, 0, 0, -\frac{13}{535}\sqrt{222}e^{12}, \frac{13}{535}\sqrt{222}e^{13}, \frac{26}{535}\sqrt{179}e^{23}, \frac{26}{535}\sqrt{134}e^{14},$ $\frac{26}{535}\sqrt{134}e^{15}, \frac{13}{535}\sqrt{226}e^{24} + \frac{13}{535}\sqrt{226}e^{35}$	$(\frac{156}{535}, -\frac{91}{535}, -\frac{91}{535}, \frac{13}{107}, \frac{13}{107}, -\frac{182}{535}, \frac{221}{535}, \frac{221}{535}, -\frac{26}{535})$ $+\frac{13}{535}\sqrt{7}e^1 \otimes e_6$	{12378, 145, 24679, 12378, 145, 24679}
963:4	$0, 0, 0, \frac{13}{535}\sqrt{222}e^{12}, \frac{13}{535}\sqrt{222}e^{13}, \frac{26}{535}\sqrt{179}e^{23}, \frac{26}{535}\sqrt{134}e^{14},$ $\frac{26}{535}\sqrt{134}e^{15}, \frac{13}{535}\sqrt{226}e^{24} + \frac{13}{535}\sqrt{226}e^{35}$	$(\frac{156}{535}, -\frac{91}{535}, -\frac{91}{535}, \frac{13}{107}, \frac{13}{107}, -\frac{182}{535}, \frac{221}{535}, \frac{221}{535}, -\frac{26}{535})$ $+\frac{208}{535}\sqrt{7}e^1 \otimes e_6$	{12378, 145, 24679, 12378, 145, 24679}
963:6	$0, 0, 0, \frac{198}{1901}\sqrt{3}e^{12}, \frac{22}{1901}\sqrt{1263}e^{13}, \frac{110}{1901}\sqrt{19}e^{23},$ $\frac{22}{1901}\sqrt{1182}e^{24}, \frac{22}{1901}\sqrt{174}e^{15}, \frac{66}{1901}\sqrt{130}e^{14} + \frac{44}{1901}\sqrt{281}e^{35}$	$(\frac{209}{1901}, -\frac{231}{1901}, -\frac{11}{1901}, -\frac{22}{1901}, \frac{198}{1901}, \frac{242}{1901}, -\frac{253}{1901}, \frac{407}{1901}, \frac{187}{1901})$ $+\frac{44}{1901}\sqrt{417}e^3 \otimes e_7$	{1234689, 467}
963:6	$0, 0, 0, \frac{2}{95}\sqrt{114}e^{12}, \frac{4}{95}\sqrt{19}e^{13}, \frac{6}{95}\sqrt{114}e^{23}, \frac{2}{95}\sqrt{570}e^{24},$ $\frac{6}{95}\sqrt{57}e^{15}, \frac{2}{95}\sqrt{893}e^{14} + \frac{2}{95}\sqrt{741}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{1}{5})$ $+\frac{4}{95}\sqrt{399}e^1 \otimes e_6$	{12359, 367}
963:6	$0, 0, 0, \frac{2}{77}\sqrt{285}e^{12}, \frac{2}{77}\sqrt{65}e^{13}, \frac{2}{77}\sqrt{445}e^{23}, \frac{2}{77}\sqrt{570}e^{24},$ $\frac{2}{77}\sqrt{690}e^{15}, \frac{2}{77}\sqrt{230}e^{14} + \frac{2}{77}\sqrt{2}e^{35}$	$(-\frac{15}{77}, \frac{25}{77}, \frac{5}{77}, \frac{10}{77}, -\frac{10}{77}, \frac{30}{77}, \frac{5}{11}, -\frac{25}{77}, -\frac{5}{77})$ $+\frac{36}{77}\sqrt{5}e^2 \otimes e_8$	{14789, 234}
963:13	$0, 0, 0, \frac{2}{581}\sqrt{905}e^{12}, \frac{6}{581}\sqrt{543}e^{13}, \frac{2}{581}\sqrt{36381}e^{23}, \frac{4}{581}\sqrt{1086}e^{14},$ $\frac{20}{581}\sqrt{362}e^{15}, \frac{16}{581}\sqrt{543}e^{26}$	$(-\frac{53}{581}, \frac{183}{581}, -\frac{73}{581}, \frac{130}{581}, -\frac{18}{83}, \frac{110}{581}, \frac{11}{83}, -\frac{179}{581}, \frac{293}{581})$ $+\frac{8}{581}\sqrt{5430}e^2 \otimes e_8$	{12359, 1478, 2349, 578}
963:13	$0, 0, 0, \frac{1}{92}\sqrt{689}e^{12}, \frac{1}{92}\sqrt{2703}e^{13}, \frac{1}{184}\sqrt{2226}e^{23}, \frac{1}{184}\sqrt{6042}e^{14},$ $\frac{1}{184}\sqrt{10070}e^{15}, \frac{1}{92}\sqrt{3021}e^{26}$	$(\frac{11}{46}, -\frac{27}{184}, -\frac{1}{23}, \frac{17}{184}, \frac{9}{46}, -\frac{35}{184}, \frac{61}{184}, \frac{10}{23}, -\frac{31}{92})$ $+\frac{1}{184}\sqrt{32118}e^1 \otimes e_9$	{123678, 1348, 2479, 69}
963:13	$0, 0, 0, \frac{4}{37}e^{12}, \frac{12}{37}e^{13}, \frac{2}{37}\sqrt{14}e^{23}, \frac{2}{37}\sqrt{30}e^{14}, \frac{2}{37}\sqrt{22}e^{15},$ $\frac{8}{37}\sqrt{2}e^{26}$	$(\frac{2}{37}, -\frac{6}{37}, \frac{6}{37}, -\frac{4}{37}, \frac{8}{37}, 0, -\frac{2}{37}, \frac{10}{37}, -\frac{6}{37})$ $+\frac{2}{37}\sqrt{74}e^1 \otimes e_9 + \frac{4}{37}\sqrt{14}e^3 \otimes e_7$	{157, 23589}
963:13	$0, 0, 0, \frac{4}{109}\sqrt{5}e^{12}, \frac{4}{327}\sqrt{111}e^{13}, \frac{2}{327}\sqrt{510}e^{23}, \frac{2}{109}\sqrt{22}e^{14},$ $\frac{2}{327}\sqrt{1182}e^{15}, \frac{8}{327}\sqrt{78}e^{26}$	$(\frac{6}{109}, \frac{6}{109}, -\frac{14}{109}, \frac{12}{109}, -\frac{8}{109}, -\frac{8}{109}, \frac{18}{109}, -\frac{2}{109}, -\frac{2}{109})$ $+\frac{2}{327}\sqrt{1770}e^1 \otimes e_9 + \frac{4}{327}\sqrt{426}e^2 \otimes e_8$	{12567, 35689}
963:13	$0, 0, 0, \frac{6}{2849}\sqrt{61239}e^{12}, \frac{6}{2849}\sqrt{74665}e^{13}, \frac{6}{2849}\sqrt{125629}e^{23},$ $\frac{12}{2849}\sqrt{25482}e^{14}, \frac{36}{2849}\sqrt{274}e^{15}, \frac{48}{2849}\sqrt{685}e^{26}$	$(-\frac{401}{2849}, -\frac{277}{2849}, \frac{1387}{2849}, -\frac{678}{2849}, \frac{986}{2849}, \frac{30}{77}, -\frac{1079}{2849}, \frac{585}{2849}, \frac{119}{407})$ $+\frac{24}{2849}\sqrt{20002}e^3 \otimes e_7$	{123489, 157, 23589, 47}
963:14	$0, 0, 0, \frac{2}{61}\sqrt{273}e^{12}, \frac{2}{61}\sqrt{273}e^{13}, \frac{14}{61}\sqrt{3}e^{23}, \frac{6}{61}\sqrt{14}e^{24},$ $\frac{8}{61}\sqrt{21}e^{15}, \frac{8}{61}\sqrt{21}e^{36}$	$(\frac{19}{61}, -\frac{1}{61}, -\frac{11}{61}, \frac{18}{61}, \frac{8}{61}, -\frac{12}{61}, \frac{17}{61}, \frac{27}{61}, -\frac{23}{61})$ $+\frac{10}{61}\sqrt{42}e^1 \otimes e_9$	{123678, 1257, 3589, 69}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
963:14	$0, 0, 0, \frac{6}{683}\sqrt{1043}e^{12}, \frac{6}{683}\sqrt{203}e^{13}, \frac{6}{683}\sqrt{203}e^{23}, \frac{6}{683}\sqrt{826}e^{24},$ $\frac{6}{683}\sqrt{1246}e^{15}, \frac{6}{683}\sqrt{826}e^{36}$	$(\frac{27}{683}, \frac{87}{683}, -\frac{93}{683}, \frac{114}{683}, -\frac{66}{683}, -\frac{6}{683}, \frac{201}{683}, -\frac{39}{683}, -\frac{99}{683})$ $+\frac{60}{683}\sqrt{21}e^1 \otimes e_9 + \frac{60}{683}\sqrt{21}e^2 \otimes e_8$	{134678, 2469}
963:17	$0, 0, 0, \frac{2}{77}\sqrt{295}e^{12}, \frac{30}{77}\sqrt{3}e^{13}, \frac{2}{77}\sqrt{285}e^{23}, \frac{2}{77}\sqrt{430}e^{14},$ $\frac{2}{77}\sqrt{690}e^{24}, \frac{2}{77}\sqrt{230}e^{15} + \frac{4}{77}\sqrt{85}e^{36}$	$(\frac{5}{77}, -\frac{15}{77}, \frac{25}{77}, -\frac{10}{77}, \frac{30}{77}, \frac{10}{77}, -\frac{5}{77}, -\frac{25}{77}, \frac{5}{11})$ $+\frac{36}{77}\sqrt{5}e^3 \otimes e_8$	{123479, 48}
963:18	$0, 0, 0, \frac{2}{77}\sqrt{635}e^{12}, \frac{2}{77}\sqrt{1015}e^{13}, \frac{2}{77}\sqrt{285}e^{23}, \frac{2}{77}\sqrt{690}e^{24},$ $\frac{2}{77}\sqrt{570}e^{15}, \frac{2}{77}\sqrt{770}e^{14} + \frac{4}{77}\sqrt{85}e^{26}$	$(\frac{5}{77}, -\frac{15}{77}, \frac{25}{77}, -\frac{10}{77}, \frac{30}{77}, \frac{10}{77}, \frac{25}{77}, \frac{5}{11}, -\frac{5}{77})$ $+\frac{36}{77}\sqrt{5}e^3 \otimes e_7$	{123489, 47}
963:20	$0, 0, 0, \frac{42}{1829}e^{12}, \frac{14}{1829}\sqrt{685}e^{13}, \frac{14}{1829}\sqrt{1245}e^{23}, \frac{14}{1829}\sqrt{1382}e^{14},$ $\frac{14}{1829}\sqrt{402}e^{15}, \frac{14}{1829}\sqrt{1230}e^{24} + \frac{56}{1829}\sqrt{78}e^{36}$	$(-\frac{119}{1829}, \frac{161}{1829}, \frac{21}{1829}, \frac{42}{1829}, -\frac{98}{1829}, \frac{182}{1829}, -\frac{77}{1829}, -\frac{7}{59}, \frac{203}{1829})$ $+\frac{28}{1829}\sqrt{41}e^3 \otimes e_7$	{134568, 245679}
963:20	$0, 0, 0, \frac{2}{77}\sqrt{285}e^{12}, \frac{6}{77}\sqrt{15}e^{13}, \frac{2}{77}\sqrt{5}e^{23}, \frac{2}{77}\sqrt{430}e^{14},$ $\frac{2}{77}\sqrt{690}e^{15}, \frac{2}{77}\sqrt{770}e^{24} + \frac{20}{77}\sqrt{2}e^{36}$	$(-\frac{15}{77}, \frac{25}{77}, \frac{5}{77}, \frac{10}{77}, -\frac{10}{77}, \frac{30}{77}, -\frac{5}{77}, -\frac{25}{77}, \frac{5}{11})$ $+\frac{36}{77}\sqrt{5}e^2 \otimes e_8$	{1346789, 246}
963:21	$0, 0, 0, -\frac{3}{44}\sqrt{37}e^{12}, \frac{3}{22}\sqrt{17}e^{13}, \frac{3}{44}\sqrt{23}e^{23}, \frac{3}{22}\sqrt{19}e^{24},$ $\frac{3}{44}\sqrt{46}e^{15}, \frac{15}{44}\sqrt{3}e^{14} + \frac{3}{44}\sqrt{61}e^{36}$	$(\frac{3}{22}, -\frac{9}{44}, \frac{3}{22}, -\frac{3}{44}, \frac{3}{11}, -\frac{3}{44}, -\frac{3}{11}, \frac{9}{22}, \frac{3}{44})$ $+\frac{15}{44}\sqrt{6}e^3 \otimes e_7$	{123489, 1368, 2679, 47, 123489, 1368, 2679, 47}
963:21	$0, 0, 0, \frac{3}{44}\sqrt{37}e^{12}, \frac{3}{22}\sqrt{17}e^{13}, \frac{3}{44}\sqrt{23}e^{23}, \frac{3}{22}\sqrt{19}e^{24},$ $\frac{3}{44}\sqrt{46}e^{15}, \frac{15}{44}\sqrt{3}e^{14} + \frac{3}{44}\sqrt{61}e^{36}$	$(\frac{3}{22}, -\frac{9}{44}, \frac{3}{22}, -\frac{3}{44}, \frac{3}{11}, -\frac{3}{44}, -\frac{3}{11}, \frac{9}{22}, \frac{3}{44})$ $+\frac{15}{44}\sqrt{6}e^3 \otimes e_7$	{123489, 1368, 2679, 47, 123489, 1368, 2679, 47}
963:23	$0, 0, 0, \frac{13}{337}\sqrt{66}e^{12}, \frac{39}{337}\sqrt{35}e^{13}, \frac{13}{674}\sqrt{130}e^{23}, \frac{13}{337}\sqrt{287}e^{24},$ $\frac{13}{674}\sqrt{942}e^{35}, \frac{13}{674}\sqrt{690}e^{14} + \frac{39}{337}\sqrt{2}e^{26}$	$(\frac{13}{337}, -\frac{52}{337}, \frac{78}{337}, -\frac{39}{337}, \frac{91}{337}, \frac{26}{337}, -\frac{91}{337}, \frac{169}{337}, -\frac{26}{337})$ $+\frac{39}{674}\sqrt{254}e^3 \otimes e_7$	{138, 279}
963:23	$0, 0, 0, \frac{28}{701}\sqrt{183}e^{12}, \frac{14}{701}\sqrt{42}e^{13}, \frac{28}{701}\sqrt{35}e^{23}, \frac{14}{701}\sqrt{806}e^{24},$ $\frac{28}{701}\sqrt{222}e^{35}, \frac{28}{701}\sqrt{66}e^{14} + \frac{14}{701}\sqrt{510}e^{26}$	$(\frac{14}{701}, \frac{154}{701}, -\frac{126}{701}, \frac{168}{701}, -\frac{112}{701}, \frac{28}{701}, \frac{322}{701}, -\frac{238}{701}, \frac{182}{701})$ $+\frac{42}{701}\sqrt{258}e^2 \otimes e_8$	{1267, 3689}
963:25	$0, 0, 0, \frac{4}{341}\sqrt{138}e^{12}, \frac{8}{341}\sqrt{133}e^{13}, \frac{8}{341}\sqrt{273}e^{23}, \frac{32}{341}\sqrt{15}e^{14},$ $\frac{4}{341}\sqrt{258}e^{35}, \frac{8}{341}\sqrt{246}e^{24} + \frac{4}{341}\sqrt{1046}e^{36}$	$(-\frac{36}{341}, \frac{4}{31}, \frac{4}{341}, \frac{8}{341}, -\frac{32}{341}, \frac{48}{341}, -\frac{28}{341}, -\frac{28}{341}, \frac{52}{341})$ $+\frac{4}{341}\sqrt{1218}e^3 \otimes e_7$	{1234589, 457}
954321:1	$0, 0, 0, 0, \frac{1}{407}\sqrt{30910}e^{12}, \frac{4}{407}\sqrt{3091}e^{15}, \frac{3}{407}\sqrt{6182}e^{16}, \frac{4}{407}\sqrt{3091}e^{17},$ $\frac{1}{407}\sqrt{30910}e^{18}$	$(\frac{2}{37}, \frac{19}{407}, -\frac{7}{11}, \frac{2}{11}, \frac{41}{407}, \frac{63}{407}, \frac{85}{407}, \frac{107}{407}, \frac{129}{407})$ $+\frac{3}{407}\sqrt{20794}e^1 \otimes e_3$	{12468, 1268, 14579, 1579, 23456789, 2356789, 3, 34}
954321:1	$0, 0, 0, 0, \frac{5}{1091}\sqrt{51034}e^{12}, \frac{2}{1091}\sqrt{103411}e^{15}, \frac{6}{1091}\sqrt{4029}e^{16},$ $\frac{1}{1091}\sqrt{400214}e^{17}, \frac{1}{1091}\sqrt{351866}e^{18}$	$(-\frac{113}{1091}, \frac{616}{1091}, -\frac{727}{1091}, \frac{182}{1091}, \frac{503}{1091}, \frac{390}{1091}, \frac{277}{1091}, \frac{164}{1091}, \frac{51}{1091})$ $+\frac{3}{1091}\sqrt{271286}e^2 \otimes e_3$	{1246789, 126789, 1345, 135, 24568, 2568, 3479, 379}
954321:1	$0, 0, 0, 0, \frac{1}{93}\sqrt{745}e^{12}, \frac{2}{93}\sqrt{298}e^{15}, \frac{1}{31}\sqrt{149}e^{16}, \frac{2}{93}\sqrt{298}e^{17},$ $\frac{1}{93}\sqrt{745}e^{18}$	$(\frac{1}{93}, \frac{16}{93}, 1, -\frac{56}{93}, \frac{17}{93}, \frac{6}{31}, \frac{19}{93}, \frac{20}{93}, \frac{7}{31})$ $+\frac{149}{93}e^3 \otimes e_4$	{12368, 12468, 13579, 14579, 2356789, 2456789, 3, 4}
954321:1	$0, 0, 0, 0, \frac{15}{46}\sqrt{6}e^{12}, \frac{5}{46}\sqrt{6}e^{15}, \frac{5}{46}\sqrt{26}e^{16}, \frac{5}{46}\sqrt{6}e^{17},$ $\frac{15}{46}\sqrt{6}e^{18}$	$(-\frac{5}{23}, \frac{65}{92}, \frac{15}{92}, \frac{15}{92}, \frac{45}{92}, \frac{25}{92}, \frac{5}{92}, -\frac{15}{92}, -\frac{35}{92})$ $+\frac{5}{46}\sqrt{154}e^2 \otimes e_9$	{23457, 2357, 257, 34689, 3689, 689}
954321:1	$0, 0, 0, 0, \frac{6}{113}\sqrt{83}e^{12}, \frac{1}{113}\sqrt{249}e^{15}, \frac{4}{113}\sqrt{83}e^{16}, \frac{1}{113}\sqrt{249}e^{17},$ $\frac{6}{113}\sqrt{83}e^{18}$	$(-\frac{13}{113}, \frac{89}{226}, \frac{125}{226}, -\frac{77}{226}, \frac{63}{226}, \frac{37}{226}, \frac{11}{226}, -\frac{15}{226}, -\frac{41}{226})$ $+\frac{1}{113}\sqrt{8383}e^2 \otimes e_4 + \frac{1}{113}\sqrt{8383}e^3 \otimes e_9$	{129, 1345678, 2357, 4689}
954321:1	$0, 0, 0, 0, \frac{1}{1091}\sqrt{351866}e^{12}, \frac{1}{1091}\sqrt{400214}e^{15}, \frac{6}{1091}\sqrt{4029}e^{16},$ $\frac{2}{1091}\sqrt{103411}e^{17}, \frac{5}{1091}\sqrt{51034}e^{18}$	$(-\frac{113}{1091}, \frac{313}{1091}, 1, \frac{182}{1091}, \frac{200}{1091}, \frac{87}{1091}, -\frac{26}{1091}, -\frac{139}{1091}, -\frac{252}{1091})$ $+\frac{3}{1091}\sqrt{271286}e^3 \otimes e_9$	{1245679, 125679, 1348, 138, 2346, 236, 45789, 5789}
954321:1	$0, 0, 0, 0, \frac{15}{71}\sqrt{6}e^{12}, \frac{5}{71}\sqrt{6}e^{15}, \frac{5}{71}\sqrt{26}e^{16}, \frac{5}{71}\sqrt{6}e^{17},$ $\frac{15}{71}\sqrt{6}e^{18}$	$(-\frac{10}{71}, \frac{65}{142}, \frac{65}{142}, -\frac{35}{142}, \frac{45}{142}, \frac{25}{142}, \frac{5}{142}, -\frac{15}{142}, -\frac{35}{142})$ $+\frac{50}{71}e^3 \otimes e_4 + \frac{5}{71}\sqrt{154}e^2 \otimes e_9$	{2357, 2457, 3689, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
954321:1	$0, 0, 0, 0, \frac{1}{375}\sqrt{27555}e^{12}, \frac{8}{375}\sqrt{167}e^{15}, \frac{1}{375}\sqrt{32565}e^{16}, \frac{2}{375}\sqrt{9519}e^{17}, \frac{1}{375}\sqrt{27221}e^{18}$	$(\frac{49}{375}, -\frac{118}{375}, \frac{43}{125}, -\frac{38}{375}, -\frac{23}{125}, -\frac{4}{75}, \frac{29}{375}, \frac{26}{125}, \frac{127}{375})$ $+ \frac{167}{375}e^3 \otimes e_4 + \frac{2}{375}\sqrt{20541}e^1 \otimes e_2$	{1368, 1468, 23, 24}
954321:1	$0, 0, 0, 0, \frac{60}{1051}\sqrt{42}e^{12}, \frac{10}{1051}\sqrt{777}e^{15}, \frac{20}{1051}\sqrt{133}e^{16}, \frac{10}{1051}\sqrt{777}e^{17}, \frac{60}{1051}\sqrt{42}e^{18}$	$(-\frac{70}{1051}, \frac{295}{1051}, -\frac{420}{1051}, \frac{120}{1051}, \frac{225}{1051}, \frac{155}{1051}, \frac{85}{1051}, \frac{15}{1051}, -\frac{55}{1051})$ $+ \frac{10}{1051}\sqrt{2737}e^2 \otimes e_9 + \frac{60}{1051}\sqrt{105}e^1 \otimes e_3$	{12468, 1268, 14579, 1579}
954321:1	$0, 0, 0, 0, \frac{2}{583}\sqrt{27555}e^{12}, \frac{16}{583}\sqrt{167}e^{15}, \frac{2}{583}\sqrt{32565}e^{16}, \frac{4}{583}\sqrt{9519}e^{17}, \frac{2}{583}\sqrt{27221}e^{18}$	$(\frac{98}{583}, -\frac{236}{583}, \frac{91}{583}, \frac{91}{583}, -\frac{138}{583}, -\frac{40}{583}, \frac{58}{583}, \frac{156}{583}, \frac{254}{583})$ $+ \frac{4}{583}\sqrt{20541}e^1 \otimes e_2$	{13468, 1368, 168, 2, 23, 234}
954321:1	$0, 0, 0, 0, \frac{8}{3071}\sqrt{21831}e^{12}, \frac{8}{3071}\sqrt{570}e^{15}, \frac{76}{3071}\sqrt{186}e^{16}, \frac{4}{3071}\sqrt{107274}e^{17}, \frac{8}{3071}\sqrt{30666}e^{18}$	$(\frac{217}{3071}, -\frac{695}{3071}, \frac{1302}{3071}, \frac{308}{3071}, -\frac{478}{3071}, -\frac{261}{3071}, -\frac{44}{3071}, \frac{173}{3071}, \frac{390}{3071})$ $+ \frac{4}{3071}\sqrt{201666}e^1 \otimes e_2 + \frac{8}{3071}\sqrt{28329}e^3 \otimes e_9$	{13468, 1368, 23, 234}
954321:1	$0, 0, 0, 0, \frac{1}{215}\sqrt{1246}e^{12}, \frac{4}{215}\sqrt{178}e^{15}, \frac{3}{215}\sqrt{534}e^{16}, \frac{4}{215}\sqrt{445}e^{17}, \frac{1}{215}\sqrt{9790}e^{18}$	$(-\frac{2}{215}, \frac{19}{215}, \frac{98}{215}, -\frac{91}{215}, \frac{17}{215}, \frac{3}{215}, \frac{13}{215}, \frac{11}{215}, \frac{9}{215})$ $+ \frac{12}{215}\sqrt{89}e^3 \otimes e_9 + \frac{3}{215}\sqrt{2314}e^1 \otimes e_4$	{12368, 1579, 2456789, 34}
954321:1	$0, 0, 0, 0, \frac{1}{215}\sqrt{9790}e^{12}, \frac{4}{215}\sqrt{445}e^{15}, \frac{3}{215}\sqrt{534}e^{16}, \frac{4}{215}\sqrt{178}e^{17}, \frac{1}{215}\sqrt{1246}e^{18}$	$(-\frac{2}{215}, \frac{1}{5}, -\frac{91}{215}, -\frac{46}{215}, \frac{41}{215}, \frac{39}{215}, \frac{37}{215}, \frac{7}{215}, \frac{33}{215})$ $+ \frac{12}{215}\sqrt{89}e^2 \otimes e_4 + \frac{3}{215}\sqrt{2314}e^1 \otimes e_3$	{1268, 14579, 2356789, 34}
954321:2	$0, 0, 0, 0, \frac{70}{2761}\sqrt{941}e^{12}, \frac{140}{2761}\sqrt{19}e^{15}, \frac{70}{2761}\sqrt{299}e^{16}, \frac{140}{2761}\sqrt{46}e^{17}, \frac{140}{2761}\sqrt{46}e^{17}, \frac{70}{2761}\sqrt{421}e^{18} + \frac{140}{2761}\sqrt{195}e^{34}$	$(-\frac{490}{2761}, \frac{1820}{2761}, -\frac{315}{2761}, -\frac{315}{2761}, \frac{1330}{2761}, \frac{840}{2761}, \frac{350}{2761}, -\frac{140}{2761}, -\frac{630}{2761})$ $+ \frac{140}{2761}\sqrt{574}e^2 \otimes e_9$	{1234678, 12678, 1359}
954321:2	$0, 0, 0, 0, \frac{35}{1993}\sqrt{941}e^{12}, \frac{70}{1993}\sqrt{19}e^{15}, \frac{35}{1993}\sqrt{299}e^{16}, \frac{70}{1993}\sqrt{46}e^{17}, \frac{35}{1993}\sqrt{421}e^{18} + \frac{70}{1993}\sqrt{195}e^{34}$	$(-\frac{245}{1993}, \frac{910}{1993}, \frac{455}{1993}, -\frac{770}{1993}, \frac{665}{1993}, \frac{420}{1993}, \frac{175}{1993}, -\frac{70}{1993}, -\frac{315}{1993})$ $+ \frac{1225}{1993}e^3 \otimes e_4 + \frac{70}{1993}\sqrt{574}e^2 \otimes e_9$	{1359, 1459}
954321:2	$0, 0, 0, 0, \frac{7}{113}\sqrt{33}e^{12}, \frac{14}{339}\sqrt{110}e^{15}, \frac{7}{339}\sqrt{429}e^{16}, \frac{14}{339}\sqrt{66}e^{17}, \frac{7}{339}\sqrt{55}e^{18} + \frac{28}{339}\sqrt{33}e^{34}$	$(\frac{7}{339}, \frac{56}{339}, \frac{105}{113}, -\frac{224}{339}, \frac{21}{70}, \frac{37}{339}, \frac{77}{339}, \frac{28}{113}, \frac{91}{339})$ $+ \frac{539}{339}e^3 \otimes e_4$	{123689, 124689, 39, 49}
954321:2	$0, 0, 0, 0, \frac{14}{173}\sqrt{51}e^{12}, \frac{14}{173}\sqrt{17}e^{15}, \frac{14}{173}\sqrt{57}e^{16}, \frac{14}{173}\sqrt{69}e^{17}, \frac{14}{173}\sqrt{53}e^{18} + \frac{42}{173}e^{34}$	$(\frac{28}{173}, -\frac{70}{173}, \frac{35}{173}, \frac{35}{173}, -\frac{42}{173}, -\frac{14}{173}, \frac{14}{173}, \frac{42}{173}, \frac{70}{173})$ $+ \frac{98}{173}\sqrt{3}e^1 \otimes e_2$	{1368, 23}
954321:2	$0, 0, 0, 0, \frac{7}{111}\sqrt{51}e^{12}, \frac{7}{111}\sqrt{17}e^{15}, \frac{7}{111}\sqrt{57}e^{16}, \frac{7}{111}\sqrt{69}e^{17}, \frac{7}{111}\sqrt{53}e^{18} + \frac{7}{37}e^{34}$	$(\frac{14}{111}, -\frac{35}{111}, \frac{14}{37}, -\frac{7}{111}, -\frac{7}{37}, -\frac{7}{111}, \frac{7}{111}, \frac{7}{37}, \frac{35}{111})$ $+ \frac{49}{111}\sqrt{3}e^1 \otimes e_2 - \frac{49}{111}e^3 \otimes e_4$	{1368, 1468, 23, 24}
954321:2	$0, 0, 0, 0, \frac{7}{111}\sqrt{51}e^{12}, \frac{7}{111}\sqrt{17}e^{15}, \frac{7}{111}\sqrt{57}e^{16}, \frac{7}{111}\sqrt{69}e^{17}, \frac{7}{111}\sqrt{53}e^{18} + \frac{7}{37}e^{34}$	$(\frac{14}{111}, -\frac{35}{111}, \frac{14}{37}, -\frac{7}{111}, -\frac{7}{37}, -\frac{7}{111}, \frac{7}{111}, \frac{7}{37}, \frac{35}{111})$ $+ \frac{49}{111}\sqrt{3}e^1 \otimes e_2 + \frac{49}{111}e^3 \otimes e_4$	{1368, 1468, 23, 24}
954321:3	$0, 0, 0, 0, \frac{61}{5269}\sqrt{946}e^{12}, \frac{244}{5269}\sqrt{11}e^{15}, \frac{122}{5269}\sqrt{111}e^{16}, \frac{61}{5269}\sqrt{142}e^{17}, \frac{61}{5269}\sqrt{1582}e^{18} + \frac{122}{5269}\sqrt{318}e^{23}$	$(-\frac{427}{5269}, \frac{1586}{5269}, -\frac{2135}{5269}, \frac{3172}{5269}, \frac{1159}{5269}, \frac{732}{5269}, \frac{305}{5269}, -\frac{122}{5269}, -\frac{549}{5269})$ $+ \frac{183}{5269}\sqrt{466}e^2 \otimes e_3 + \frac{366}{5269}\sqrt{143}e^4 \otimes e_9$	{135679, 25789}
954321:3	$0, 0, 0, 0, \frac{1}{115}\sqrt{2686}e^{12}, \frac{7}{115}\sqrt{79}e^{15}, \frac{3}{115}\sqrt{474}e^{16}, \frac{7}{115}\sqrt{79}e^{17}, \frac{1}{115}\sqrt{2686}e^{18} + \frac{3}{115}\sqrt{79}e^{23}$	$(\frac{1}{23}, \frac{8}{115}, \frac{5}{23}, -\frac{74}{115}, \frac{13}{115}, \frac{18}{115}, \frac{1}{5}, \frac{28}{115}, \frac{33}{115})$ $+ \frac{3}{115}\sqrt{1659}e^1 \otimes e_4$	{1268, 1579, 23456789, 34}
954321:3	$0, 0, 0, 0, \frac{13}{421}\sqrt{238}e^{12}, \frac{13}{421}\sqrt{151}e^{15}, \frac{39}{421}\sqrt{10}e^{16}, \frac{13}{421}\sqrt{55}e^{17}, \frac{13}{421}\sqrt{46}e^{18} + \frac{39}{421}\sqrt{7}e^{23}$	$(-\frac{13}{421}, \frac{104}{421}, -\frac{65}{421}, -\frac{182}{421}, \frac{91}{421}, \frac{78}{421}, \frac{65}{421}, \frac{52}{421}, \frac{39}{421})$ $+ \frac{156}{421}\sqrt{2}e^2 \otimes e_3 + \frac{39}{421}\sqrt{51}e^1 \otimes e_4$	{1268, 34}
954321:3	$0, 0, 0, 0, \frac{1}{109}\sqrt{3059}e^{12}, \frac{4}{109}\sqrt{133}e^{15}, \frac{1}{109}\sqrt{3857}e^{16}, \frac{4}{109}\sqrt{133}e^{17}, \frac{1}{109}\sqrt{3059}e^{18} + \frac{2}{109}\sqrt{2926}e^{23}$	$(\frac{13}{109}, -\frac{12}{109}, \frac{65}{109}, -\frac{68}{109}, \frac{1}{109}, \frac{14}{109}, \frac{27}{109}, \frac{40}{109}, \frac{53}{109})$ $+ \frac{1}{109}\sqrt{23541}e^3 \otimes e_4$	{12357, 13689, 249, 45678}
954321:3	$0, 0, 0, 0, \frac{14}{285}\sqrt{183}e^{12}, \frac{56}{285}\sqrt{6}e^{15}, \frac{28}{285}\sqrt{3}e^{16}, \frac{14}{285}\sqrt{141}e^{17}, \frac{14}{285}\sqrt{291}e^{18} + \frac{14}{285}\sqrt{249}e^{23}$	$(-\frac{7}{285}, \frac{26}{285}, -\frac{7}{57}, 1, \frac{1}{15}, \frac{4}{95}, \frac{1}{57}, -\frac{2}{285}, -\frac{3}{95})$ $+ \frac{14}{95}\sqrt{79}e^4 \otimes e_9$	{1234568, 1379, 26789, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
954321:3	$0, 0, 0, 0, \frac{14}{285}\sqrt{291}e^{12}, \frac{14}{285}\sqrt{141}e^{15}, \frac{28}{285}\sqrt{3}e^{16}, \frac{56}{285}\sqrt{6}e^{17},$ $\frac{14}{285}\sqrt{183}e^{18} + \frac{14}{285}\sqrt{249}e^{23}$	$(-\frac{7}{285}, \frac{7}{19}, -\frac{7}{57}, -\frac{63}{95}, \frac{98}{285}, \frac{91}{285}, \frac{28}{95}, \frac{77}{285}, \frac{14}{57})$ $+\frac{14}{95}\sqrt{79}e^2 \otimes e_4$	{1236, 1345789, 25679, 48}
954321:3	$0, 0, 0, 0, \frac{1}{407}\sqrt{185878}e^{12}, \frac{1}{407}\sqrt{54670}e^{15}, \frac{3}{407}\sqrt{2982}e^{16},$ $\frac{1}{407}\sqrt{58646}e^{17}, \frac{1}{407}\sqrt{40754}e^{18} + \frac{3}{407}\sqrt{2982}e^{23}$	$(-\frac{50}{407}, \frac{247}{407}, -\frac{250}{407}, \frac{65}{407}, \frac{197}{407}, \frac{147}{407}, \frac{97}{407}, \frac{47}{407}, -\frac{3}{407})$ $+\frac{6}{407}\sqrt{9443}e^2 \otimes e_3$	{1345, 135, 24568, 2568}
954321:4	$0, 0, 0, 0, \frac{53}{6517}\sqrt{2674}e^{12}, \frac{106}{6517}\sqrt{305}e^{15}, \frac{106}{6517}\sqrt{3}e^{16},$ $\frac{53}{6517}\sqrt{62}e^{17}, \frac{53}{6517}\sqrt{358}e^{18} + \frac{106}{6517}\sqrt{1158}e^{25}$	$(\frac{53}{6517}, \frac{212}{6517}, \frac{3286}{6517}, -\frac{53}{133}, \frac{265}{6517}, \frac{318}{6517}, \frac{53}{931}, \frac{424}{6517}, \frac{477}{6517})$ $+\frac{106}{6517}\sqrt{1326}e^3 \otimes e_9 + \frac{159}{6517}\sqrt{718}e^2 \otimes e_4$	{129, 2357}
954321:4	$0, 0, 0, 0, \frac{100}{3077}\sqrt{22}e^{12}, \frac{50}{3077}\sqrt{151}e^{15}, \frac{150}{3077}\sqrt{42}e^{16},$ $\frac{100}{3077}\sqrt{145}e^{17}, \frac{50}{3077}\sqrt{757}e^{18} + \frac{150}{3077}\sqrt{21}e^{25}$	$(\frac{25}{3077}, \frac{100}{3077}, \frac{1475}{3077}, -\frac{1225}{3077}, \frac{125}{3077}, \frac{150}{3077}, \frac{175}{3077}, \frac{200}{3077}, \frac{225}{3077})$ $+\frac{150}{3077}\sqrt{122}e^3 \otimes e_9 + \frac{150}{3077}\sqrt{178}e^1 \otimes e_4$	{1579, 34}
954321:4	$0, 0, 0, 0, \frac{1}{332}\sqrt{84790}e^{12}, \frac{1}{332}\sqrt{6394}e^{15}, \frac{1}{332}\sqrt{4170}e^{16}, \frac{1}{166}\sqrt{5282}e^{17},$ $\frac{2}{83}\sqrt{695}e^{18} + \frac{1}{332}\sqrt{74226}e^{25}$	$(\frac{23}{664}, \frac{23}{166}, -\frac{58}{83}, \frac{25}{166}, \frac{115}{664}, \frac{69}{332}, \frac{161}{664}, \frac{23}{83}, \frac{207}{664})$ $+\frac{1}{166}\sqrt{39198}e^2 \otimes e_3$	{1246789, 126789, 24568, 2568}
954321:4	$0, 0, 0, 0, \frac{5}{589}\sqrt{3030}e^{12}, \frac{80}{589}\sqrt{6}e^{15}, \frac{100}{589}\sqrt{3}e^{16}, \frac{15}{589}\sqrt{66}e^{17},$ $\frac{5}{589}\sqrt{282}e^{18} + \frac{10}{589}\sqrt{357}e^{25}$	$(\frac{15}{589}, \frac{60}{589}, \frac{210}{589}, -\frac{165}{589}, \frac{75}{589}, \frac{90}{589}, \frac{105}{589}, \frac{120}{589}, \frac{135}{589})$ $+\frac{10}{589}\sqrt{1266}e^1 \otimes e_3 + \frac{5}{589}\sqrt{4254}e^2 \otimes e_4$	{12689, 235678}
954321:4	$0, 0, 0, 0, \frac{8}{99}\sqrt{34}e^{12}, \frac{2}{33}\sqrt{119}e^{15}, \frac{4}{99}\sqrt{34}e^{16}, \frac{8}{99}\sqrt{51}e^{17},$ $\frac{2}{99}\sqrt{1785}e^{18} + \frac{34}{99}\sqrt{5}e^{25}$	$(-\frac{1}{297}, -\frac{4}{297}, 1, \frac{49}{297}, -\frac{5}{297}, -\frac{2}{99}, -\frac{7}{297}, -\frac{8}{297}, -\frac{1}{33})$ $+\frac{4}{99}\sqrt{1054}e^3 \otimes e_9$	{1348, 138, 45789, 5789}
954321:4	$0, 0, 0, 0, \frac{4}{2881}\sqrt{92815}e^{12}, \frac{2}{2881}\sqrt{661429}e^{15}, \frac{12}{2881}\sqrt{18563}e^{16},$ $\frac{8}{2881}\sqrt{37126}e^{17}, \frac{2}{2881}\sqrt{438673}e^{18} + \frac{6}{2881}\sqrt{22471}e^{25}$	$(\frac{83}{2881}, \frac{332}{2881}, -\frac{1871}{2881}, \frac{505}{2881}, \frac{415}{2881}, \frac{498}{2881}, \frac{581}{2881}, \frac{664}{2881}, \frac{747}{2881})$ $+\frac{12}{2881}\sqrt{64482}e^1 \otimes e_3$	{12468, 1268, 23456789, 2356789}
954321:4	$0, 0, 0, 0, \frac{1}{84}\sqrt{670}e^{12}, \frac{1}{84}\sqrt{670}e^{15}, \frac{1}{28}\sqrt{134}e^{16}, \frac{1}{21}\sqrt{67}e^{17},$ $\frac{1}{42}\sqrt{67}e^{18} + \frac{1}{28}\sqrt{134}e^{25}$	$(\frac{5}{168}, \frac{5}{42}, 1, -\frac{25}{42}, \frac{25}{168}, \frac{5}{28}, \frac{5}{24}, \frac{5}{21}, \frac{15}{56})$ $+\frac{67}{42}e^3 \otimes e_4$	{13579, 14579, 3, 4}
954321:6	$0, 0, 0, 0, \frac{539}{1513}e^{12}, \frac{588}{1513}e^{15}, \frac{49}{1513}\sqrt{181}e^{16}, \frac{98}{1513}\sqrt{30}e^{17},$ $\frac{49}{1513}\sqrt{39}e^{18} + \frac{196}{1513}\sqrt{7}e^{25} + \frac{98}{1513}\sqrt{46}e^{34}$	$(\frac{49}{1513}, \frac{196}{1513}, \frac{1421}{1513}, -\frac{980}{1513}, \frac{245}{1513}, \frac{294}{1513}, \frac{343}{1513}, \frac{392}{1513}, \frac{441}{1513})$ $+\frac{2401}{1513}e^3 \otimes e_4$	{123689, 124689}
95421:1	$0, 0, 0, 0, \frac{1}{69}\sqrt{174}e^{12}, \frac{2}{23}\sqrt{29}e^{15}, \frac{5}{69}\sqrt{174}e^{25}, \frac{2}{69}\sqrt{174}e^{16},$ $\frac{2}{23}\sqrt{29}e^{18}$	$(\frac{8}{69}, -\frac{13}{69}, 1, \frac{13}{69}, -\frac{5}{69}, \frac{1}{23}, -\frac{6}{23}, \frac{11}{69}, \frac{19}{69})$ $+\frac{4}{69}\sqrt{609}e^3 \otimes e_7$	{12478, 1278, 145679, 15679, 2345, 235, 34689, 3689}
95421:1	$0, 0, 0, 0, \frac{1}{89}\sqrt{2090}e^{12}, \frac{1}{89}\sqrt{2090}e^{15}, \frac{1}{89}\sqrt{1870}e^{25}, \frac{1}{89}\sqrt{1870}e^{16},$ $\frac{12}{89}\sqrt{55}e^{18}$	$(-\frac{19}{178}, \frac{17}{89}, 1, \frac{16}{89}, \frac{15}{178}, -\frac{2}{89}, \frac{49}{178}, -\frac{23}{178}, -\frac{21}{89})$ $+\frac{2}{89}\sqrt{4015}e^3 \otimes e_9$	{124569, 12569, 1348, 138, 246789, 26789, 3457, 357}
95421:1	$0, 0, 0, 0, \frac{3}{1529}\sqrt{69126}e^{12}, \frac{18}{1529}\sqrt{2993}e^{15}, \frac{3}{1529}\sqrt{13530}e^{25},$ $\frac{24}{1529}\sqrt{1599}e^{16}, \frac{54}{1529}\sqrt{205}e^{18}$	$(\frac{124}{1529}, \frac{47}{1529}, -\frac{983}{1529}, \frac{273}{1529}, \frac{171}{1529}, \frac{295}{1529}, \frac{218}{1529}, \frac{419}{1529}, \frac{543}{1529})$ $+\frac{12}{1529}\sqrt{19311}e^1 \otimes e_3$	{12469, 1269, 1458, 158, 23456789, 2356789, 347, 37}
95421:1	$0, 0, 0, 0, \frac{2}{1443}\sqrt{44745}e^{12}, \frac{2}{481}\sqrt{9106}e^{15}, \frac{2}{1443}\sqrt{151662}e^{25},$ $\frac{2}{1443}\sqrt{40035}e^{16}, \frac{4}{481}\sqrt{4710}e^{18}$	$(-\frac{16}{1443}, -\frac{67}{1443}, \frac{264}{481}, \frac{811}{1443}, -\frac{83}{1443}, -\frac{33}{481}, -\frac{50}{481}, -\frac{115}{1443}, -\frac{131}{1443})$ $+\frac{2}{481}\sqrt{34069}e^4 \otimes e_9 + \frac{4}{1443}\sqrt{74418}e^3 \otimes e_7$	{123569, 1348, 26789, 457}
95421:1	$0, 0, 0, 0, \frac{1}{1725}\sqrt{370766}e^{12}, \frac{4}{1725}\sqrt{29271}e^{15}, \frac{1}{1725}\sqrt{292710}e^{25},$ $\frac{2}{1725}\sqrt{146355}e^{16}, \frac{22}{1725}\sqrt{887}e^{18}$	$(\frac{154}{1725}, -\frac{47}{575}, \frac{11}{25}, -\frac{733}{1725}, \frac{13}{1725}, \frac{167}{1725}, -\frac{128}{1725}, \frac{107}{575}, \frac{19}{69})$ $+\frac{2}{1725}\sqrt{233281}e^3 \otimes e_7 + \frac{2}{1725}\sqrt{428421}e^1 \otimes e_4$	{12679, 1578, 2345689, 34}
95421:1	$0, 0, 0, 0, \frac{1}{428}\sqrt{37990}e^{12}, \frac{1}{428}\sqrt{19126}e^{15}, \frac{1}{428}\sqrt{53186}e^{25},$ $\frac{1}{428}\sqrt{3930}e^{16}, \frac{1}{214}\sqrt{7598}e^{18}$	$(-\frac{73}{856}, \frac{47}{214}, \frac{105}{214}, -\frac{42}{107}, \frac{115}{856}, \frac{21}{428}, \frac{303}{856}, -\frac{31}{856}, -\frac{13}{107})$ $+\frac{1}{214}\sqrt{28558}e^2 \otimes e_4 + \frac{2}{107}\sqrt{1310}e^3 \otimes e_9$	{1279, 1345678, 2589, 346}
95421:1	$0, 0, 0, 0, \frac{2}{1563}\sqrt{115482}e^{12}, \frac{2}{4689}\sqrt{398109}e^{15}, \frac{22}{4689}\sqrt{14182}e^{25},$ $\frac{2}{4689}\sqrt{192470}e^{16}, \frac{2}{4689}\sqrt{59767}e^{18}$	$(\frac{8}{521}, \frac{109}{4689}, \frac{772}{1563}, -\frac{213}{521}, \frac{181}{4689}, \frac{253}{4689}, \frac{290}{4689}, \frac{325}{4689}, \frac{397}{4689})$ $+\frac{2}{4689}\sqrt{2403849}e^2 \otimes e_4 + \frac{4}{4689}\sqrt{471045}e^3 \otimes e_7$	{127, 1456789, 2358, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95421:1	$0, 0, 0, 0, \frac{6}{4025}\sqrt{23901e^{12}}, \frac{72}{4025}\sqrt{341e^{15}}, \frac{24}{4025}\sqrt{93e^{25}},$ $\frac{6}{4025}\sqrt{74121e^{16}}, \frac{108}{4025}\sqrt{310e^{18}}$	$(-\frac{2}{575}, \frac{239}{4025}, \frac{1857}{4025}, -\frac{1688}{4025}, \frac{9}{161}, \frac{211}{4025}, \frac{464}{4025}, \frac{197}{4025}, \frac{183}{4025})$ $+\frac{12}{4025}\sqrt{50406e^1} \otimes e_4 + \frac{54}{4025}\sqrt{1581e^3} \otimes e_9$	{1269, 1358, 2456789, 347}
95421:1	$0, 0, 0, 0, \frac{2}{89}\sqrt{213e^{12}}, \frac{2}{89}\sqrt{213e^{15}}, \frac{2}{89}\sqrt{355e^{25}}, \frac{2}{89}\sqrt{355e^{16}},$ $\frac{4}{89}\sqrt{71e^{18}}$	$(\frac{3}{89}, \frac{10}{89}, 1, -\frac{53}{89}, \frac{13}{89}, \frac{16}{89}, \frac{23}{89}, \frac{19}{89}, \frac{22}{89})$ $+\frac{142}{89}e^3 \otimes e_4$	{123679, 124679, 13578, 14578, 235689, 245689, 3, 4}
95421:1	$0, 0, 0, 0, \frac{12}{3409}\sqrt{16978e^{12}}, \frac{6}{3409}\sqrt{34609e^{15}}, \frac{4}{3409}\sqrt{69218e^{25}},$ $\frac{4}{3409}\sqrt{62035e^{16}}, \frac{2}{3409}\sqrt{144313e^{18}}$	$(\frac{62}{3409}, \frac{389}{3409}, -\frac{1244}{3409}, -\frac{131}{487}, \frac{451}{3409}, \frac{513}{3409}, \frac{120}{487}, \frac{575}{3409}, \frac{91}{487})$ $+\frac{2}{3409}\sqrt{870449e^2} \otimes e_4 + \frac{4}{3409}\sqrt{270995e^1} \otimes e_3$	{12679, 14578, 235689, 34}
95421:1	$0, 0, 0, 0, \frac{1}{12}\sqrt{102e^{12}}, \frac{1}{36}\sqrt{102e^{15}}, \frac{5}{36}\sqrt{34e^{25}}, \frac{1}{36}\sqrt{170e^{16}},$ $\frac{1}{18}\sqrt{34e^{18}}$	$(-\frac{1}{24}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{17}{72}, \frac{37}{36}, \frac{11}{72}, \frac{1}{9})$ $+\frac{1}{18}\sqrt{510e^2} \otimes e_3$	{1247, 127, 13456789, 1356789, 2458, 258, 3469, 369}
95421:2	$0, 0, 0, 0, \frac{2}{281}\sqrt{2230e^{12}}, \frac{4}{281}\sqrt{669e^{15}}, \frac{2}{281}\sqrt{2230e^{25}} + \frac{8}{281}\sqrt{223e^{34}},$ $\frac{8}{281}\sqrt{223e^{16}}, \frac{4}{281}\sqrt{669e^{18}}$	$(\frac{8}{281}, \frac{38}{281}, \frac{265}{281}, -\frac{181}{281}, \frac{46}{281}, \frac{54}{281}, \frac{84}{281}, \frac{62}{281}, \frac{70}{281})$ $+\frac{446}{281}e^3 \otimes e_4$	{123679, 124679, 13578, 14578}
95421:2	$0, 0, 0, 0, \frac{4}{3721}\sqrt{163115e^{12}}, \frac{2}{3721}\sqrt{376023e^{15}},$ $\frac{2}{3721}\sqrt{245531e^{25}} + \frac{4}{3721}\sqrt{552874e^{34}}, \frac{68}{3721}\sqrt{505e^{16}}, \frac{24}{3721}\sqrt{17170e^{18}}$	$(-\frac{541}{3721}, \frac{1163}{3721}, \frac{2433}{3721}, -\frac{648}{3721}, \frac{622}{3721}, \frac{81}{3721}, \frac{1785}{3721}, -\frac{460}{3721}, -\frac{1001}{3721})$ $+\frac{2}{3721}\sqrt{5290077e^3} \otimes e_9$	{1245679, 1378, 2689, 345}
95421:3	$0, 0, 0, 0, \frac{11}{476}\sqrt{426e^{12}}, \frac{121}{476}\sqrt{2e^{15}}, \frac{11}{238}\sqrt{78e^{13}} + \frac{11}{476}\sqrt{710e^{25}},$ $\frac{11}{476}\sqrt{42e^{16}}, \frac{11}{238}\sqrt{142e^{18}}$	$(-\frac{121}{952}, \frac{55}{238}, \frac{55}{119}, -\frac{11}{238}, \frac{99}{952}, -\frac{11}{476}, \frac{319}{952}, -\frac{143}{952}, -\frac{33}{119})$ $-\frac{11}{238}\sqrt{334e^2} \otimes e_9 + \frac{11}{238}\sqrt{82e^3} \otimes e_4$	{12378, 135679, 235, 3689}
95421:3	$0, 0, 0, 0, \frac{11}{476}\sqrt{426e^{12}}, \frac{121}{476}\sqrt{2e^{15}}, \frac{11}{238}\sqrt{78e^{13}} + \frac{11}{476}\sqrt{710e^{25}},$ $\frac{11}{476}\sqrt{42e^{16}}, \frac{11}{238}\sqrt{142e^{18}}$	$(-\frac{121}{952}, \frac{55}{238}, \frac{55}{119}, -\frac{11}{238}, \frac{99}{952}, -\frac{11}{476}, \frac{319}{952}, -\frac{143}{952}, -\frac{33}{119})$ $+\frac{11}{238}\sqrt{334e^2} \otimes e_9 + \frac{11}{238}\sqrt{82e^3} \otimes e_4$	{12378, 135679, 235, 3689}
95421:3	$0, 0, 0, 0, \frac{1}{57}\sqrt{1034e^{12}}, \frac{47}{171}\sqrt{2e^{15}}, \frac{2}{171}\sqrt{2491e^{13}} + \frac{1}{171}\sqrt{15510e^{25}},$ $\frac{1}{171}\sqrt{1786e^{16}}, \frac{2}{171}\sqrt{3102e^{18}}$	$(-\frac{47}{342}, \frac{13}{57}, \frac{26}{57}, \frac{25}{171}, \frac{31}{342}, -\frac{8}{171}, \frac{109}{342}, -\frac{7}{38}, -\frac{55}{171})$ $+\frac{2}{171}\sqrt{6862e^2} \otimes e_9$	{123478, 12378, 1345679, 135679, 2345, 235, 34689, 3689}
95421:3	$0, 0, 0, 0, \frac{1}{57}\sqrt{1034e^{12}}, \frac{47}{171}\sqrt{2e^{15}}, \frac{2}{171}\sqrt{2491e^{13}} + \frac{1}{171}\sqrt{15510e^{25}},$ $\frac{1}{171}\sqrt{1786e^{16}}, \frac{2}{171}\sqrt{3102e^{18}}$	$(-\frac{47}{342}, \frac{13}{57}, \frac{26}{57}, \frac{25}{171}, \frac{31}{342}, -\frac{8}{171}, \frac{109}{342}, -\frac{7}{38}, -\frac{55}{171})$ $-\frac{2}{171}\sqrt{6862e^2} \otimes e_9$	{123478, 12378, 1345679, 135679, 2345, 235, 34689, 3689}
95421:3	$0, 0, 0, 0, \frac{21}{587}\sqrt{53e^{12}}, \frac{14}{587}\sqrt{186e^{15}}, \frac{133}{587}\sqrt{3e^{13}} + \frac{28}{587}\sqrt{15e^{25}},$ $\frac{7}{587}\sqrt{1041e^{16}}, \frac{14}{587}\sqrt{282e^{18}}$	$(\frac{35}{587}, -\frac{56}{587}, -\frac{112}{587}, \frac{231}{587}, -\frac{21}{587}, \frac{14}{587}, -\frac{77}{587}, \frac{49}{587}, \frac{84}{587})$ $+\frac{14}{587}\sqrt{534e^1} \otimes e_3 + \frac{7}{587}\sqrt{1005e^4} \otimes e_9$	{235689, 34}
95421:3	$0, 0, 0, 0, \frac{1}{28}\sqrt{170e^{12}}, \frac{1}{28}\sqrt{170e^{15}}, \frac{1}{14}\sqrt{51e^{13}} + \frac{1}{28}\sqrt{238e^{25}},$ $\frac{1}{28}\sqrt{238e^{16}}, \frac{1}{7}\sqrt{51e^{18}}$	$(-\frac{5}{56}, \frac{1}{7}, \frac{2}{7}, 1, \frac{3}{56}, -\frac{1}{28}, \frac{11}{56}, -\frac{1}{8}, -\frac{3}{14})$ $+\frac{1}{14}\sqrt{391e^4} \otimes e_9$	{12569, 148, 26789, 457}
95421:3	$0, 0, 0, 0, \frac{34}{1537}\sqrt{246e^{12}}, \frac{51}{1537}\sqrt{73e^{15}},$ $\frac{17}{1537}\sqrt{1011e^{13}} + \frac{34}{1537}\sqrt{146e^{25}}, \frac{442}{1537}e^{16}, \frac{17}{1537}\sqrt{457e^{18}}$	$(\frac{119}{1537}, -\frac{85}{1537}, -\frac{170}{1537}, -\frac{374}{1537}, \frac{34}{1537}, \frac{153}{1537}, -\frac{51}{1537}, \frac{272}{1537}, \frac{391}{1537})$ $+\frac{17}{1537}\sqrt{1073e^2} \otimes e_4 + \frac{34}{1537}\sqrt{419e^1} \otimes e_3$	{235689, 34}
95421:3	$0, 0, 0, 0, \frac{2}{293}\sqrt{1961e^{12}}, \frac{2}{293}\sqrt{6837e^{15}}, \frac{2}{293}\sqrt{14469e^{13}} + \frac{14}{293}\sqrt{265e^{25}},$ $\frac{2}{293}\sqrt{1643e^{16}}, \frac{4}{293}\sqrt{159e^{18}}$	$(\frac{55}{879}, -\frac{65}{879}, -\frac{130}{879}, 1, -\frac{10}{879}, \frac{15}{293}, -\frac{25}{293}, \frac{100}{879}, \frac{155}{879})$ $+\frac{8}{293}\sqrt{2438e^4} \otimes e_7$	{1234568, 1349, 2367, 35789}
95421:3	$0, 0, 0, 0, \frac{44}{3059}\sqrt{515e^{12}}, \frac{44}{3059}\sqrt{489e^{15}},$ $\frac{44}{3059}\sqrt{262e^{13}} + \frac{44}{3059}\sqrt{1270e^{25}}, \frac{44}{3059}\sqrt{19e^{16}}, \frac{44}{3059}\sqrt{769e^{18}}$	$(-\frac{242}{3059}, \frac{286}{3059}, \frac{572}{3059}, \frac{1298}{3059}, \frac{44}{3059}, -\frac{198}{3059}, \frac{330}{3059}, -\frac{440}{3059}, -\frac{682}{3059})$ $+\frac{44}{3059}\sqrt{1761e^2} \otimes e_9 + \frac{88}{3059}\sqrt{247e^4} \otimes e_7$	{12378, 135679, 2345, 34689}
95421:3	$0, 0, 0, 0, \frac{44}{3059}\sqrt{515e^{12}}, \frac{44}{3059}\sqrt{489e^{15}},$ $\frac{44}{3059}\sqrt{262e^{13}} + \frac{44}{3059}\sqrt{1270e^{25}}, \frac{44}{3059}\sqrt{19e^{16}}, \frac{44}{3059}\sqrt{769e^{18}}$	$(-\frac{242}{3059}, \frac{286}{3059}, \frac{572}{3059}, \frac{1298}{3059}, \frac{44}{3059}, -\frac{198}{3059}, \frac{330}{3059}, -\frac{440}{3059}, -\frac{682}{3059})$ $-\frac{44}{3059}\sqrt{1761e^2} \otimes e_9 + \frac{88}{3059}\sqrt{247e^4} \otimes e_7$	{12378, 135679, 2345, 34689}
95421:3	$0, 0, 0, 0, \frac{6}{2813}\sqrt{49558e^{12}}, \frac{12}{2813}\sqrt{17679e^{15}},$ $\frac{6}{2813}\sqrt{76467e^{13}} + \frac{6}{2813}\sqrt{12070e^{25}}, \frac{12}{2813}\sqrt{18886e^{16}}, \frac{12}{2813}\sqrt{12993e^{18}}$	$(\frac{400}{2813}, -\frac{439}{2813}, -\frac{878}{2813}, \frac{429}{2813}, -\frac{39}{2813}, \frac{361}{2813}, -\frac{478}{2813}, \frac{761}{2813}, \frac{1161}{2813})$ $+\frac{24}{2813}\sqrt{10579e^1} \otimes e_3$	{2345689, 235689, 3, 34}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95421:3	$0, 0, 0, 0, \frac{1}{141}\sqrt{182}e^{12}, \frac{5}{141}\sqrt{42}e^{15}, \frac{1}{141}\sqrt{2758}e^{13} + \frac{28}{141}e^{25},$ $\frac{2}{141}\sqrt{455}e^{16}, \frac{2}{47}\sqrt{91}e^{18}$	$(-\frac{7}{141}, \frac{7}{47}, \frac{14}{47}, -\frac{56}{141}, \frac{14}{141}, \frac{7}{141}, \frac{35}{141}, 0, -\frac{7}{141})$ $+\frac{1}{47}\sqrt{602}e^3 \otimes e_9 + \frac{1}{141}\sqrt{434}e^1 \otimes e_4$	{1358, 347}
95421:3	$0, 0, 0, 0, \frac{19}{2607}\sqrt{2130}e^{12}, \frac{19}{869}\sqrt{334}e^{15}, \frac{57}{869}\sqrt{70}e^{13} + \frac{38}{2607}\sqrt{462}e^{25},$ $\frac{38}{2607}\sqrt{195}e^{16}, \frac{190}{869}\sqrt{3}e^{18}$	$(-\frac{19}{237}, \frac{247}{2607}, \frac{494}{2607}, \frac{456}{869}, \frac{38}{2607}, -\frac{57}{869}, \frac{95}{869}, -\frac{380}{2607}, -\frac{589}{2607})$ $+\frac{19}{869}\sqrt{826}e^3 \otimes e_9 + \frac{76}{2607}\sqrt{438}e^4 \otimes e_7$	{1234568, 2367}
95421:3	$0, 0, 0, 0, \frac{37}{3121}\sqrt{1298}e^{12}, \frac{333}{3121}\sqrt{22}e^{15},$ $\frac{74}{3121}\sqrt{451}e^{13} + \frac{183}{3121}\sqrt{22}e^{25}, \frac{37}{3121}\sqrt{2002}e^{16}, \frac{296}{3121}\sqrt{22}e^{18}$	$(\frac{407}{3121}, -\frac{481}{3121}, \frac{962}{3121}, \frac{814}{3121}, -\frac{74}{3121}, \frac{333}{3121}, \frac{555}{3121}, \frac{740}{3121}, \frac{1147}{3121})$ $+\frac{37}{3121}\sqrt{4614}e^1 \otimes e_3 + \frac{37}{3121}\sqrt{742}e^4 \otimes e_7$	{2345689, 34}
95421:3	$0, 0, 0, 0, \frac{2}{161}\sqrt{2310}e^{12}, \frac{2}{161}\sqrt{2310}e^{15}, \frac{55}{161}\sqrt{6}e^{13} + \frac{1}{161}\sqrt{330}e^{25},$ $\frac{1}{161}\sqrt{330}e^{16}, \frac{18}{161}\sqrt{55}e^{18}$	$(-\frac{4}{23}, \frac{53}{161}, \frac{106}{161}, \frac{24}{161}, \frac{25}{161}, -\frac{3}{161}, \frac{78}{161}, -\frac{31}{161}, -\frac{59}{161})$ $+\frac{1}{161}\sqrt{45210}e^3 \otimes e_9$	{1479, 179, 4589, 589}
95421:3	$0, 0, 0, 0, \frac{2}{2877}\sqrt{514469}e^{12}, \frac{2}{2877}\sqrt{819645}e^{15},$ $\frac{2}{2877}\sqrt{184549}e^{13} + \frac{2}{2877}\sqrt{159805}e^{25}, \frac{2}{2877}\sqrt{755723}e^{16}, \frac{4}{959}\sqrt{13403}e^{18}$	$(\frac{29}{411}, \frac{55}{959}, \frac{110}{959}, -\frac{1859}{2877}, \frac{368}{2877}, \frac{571}{2877}, \frac{533}{2877}, \frac{258}{959}, \frac{977}{2877})$ $+\frac{16}{2877}\sqrt{38147}e^1 \otimes e_4$	{12369, 1358, 23456789, 347}
95421:3	$0, 0, 0, 0, \frac{1}{169}\sqrt{20294}e^{12}, \frac{1}{169}\sqrt{438}e^{15}, \frac{2}{169}\sqrt{2555}e^{13} + \frac{1}{169}\sqrt{20002}e^{25},$ $\frac{1}{169}\sqrt{730}e^{16}, \frac{2}{169}\sqrt{146}e^{18}$	$(-\frac{3}{338}, \frac{31}{169}, \frac{62}{169}, -\frac{115}{169}, \frac{59}{338}, \frac{28}{169}, \frac{121}{338}, \frac{53}{338}, \frac{25}{169})$ $+\frac{2}{169}\sqrt{10366}e^2 \otimes e_4$	{1237, 13456789, 2358, 3469}
95421:3	$0, 0, 0, 0, \frac{1}{157}\sqrt{2955}e^{12}, \frac{1}{157}\sqrt{2955}e^{15}, \frac{1}{157}\sqrt{27186}e^{13} + \frac{5}{157}\sqrt{197}e^{25},$ $\frac{5}{157}\sqrt{197}e^{16}, \frac{2}{157}\sqrt{985}e^{18}$	$(-\frac{15}{314}, \frac{44}{157}, \frac{88}{157}, -\frac{109}{157}, \frac{73}{314}, \frac{29}{157}, \frac{161}{314}, \frac{43}{314}, \frac{14}{157})$ $+\frac{1}{157}\sqrt{52402}e^3 \otimes e_4$	{12456789, 147, 2469, 458}
95421:3	$0, 0, 0, 0, \frac{26}{277}\sqrt{21}e^{12}, \frac{26}{277}\sqrt{13}e^{15}, \frac{13}{277}\sqrt{22}e^{13} + \frac{13}{277}\sqrt{122}e^{25},$ $\frac{13}{277}\sqrt{14}e^{16}, \frac{26}{277}\sqrt{19}e^{18}$	$(-\frac{26}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{39}{277}, \frac{13}{277}, \frac{104}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+\frac{13}{277}\sqrt{218}e^3 \otimes e_9 + \frac{52}{277}\sqrt{17}e^2 \otimes e_4$	{1279, 2589}
95421:4	$0, 0, 0, 0, \frac{16}{137}\sqrt{10}e^{12}, \frac{32}{137}e^{15}, \frac{16}{137}\sqrt{47}e^{25}, \frac{16}{137}\sqrt{5}e^{16},$ $\frac{16}{137}\sqrt{10}e^{18} + \frac{112}{137}e^{34}$	$(\frac{24}{137}, -\frac{32}{137}, \frac{88}{137}, -\frac{24}{137}, \frac{8}{137}, \frac{16}{137}, -\frac{40}{137}, \frac{40}{137}, \frac{64}{137})$ $+\frac{64}{137}\sqrt{7}e^3 \otimes e_7$	{124789, 1567, 2359, 3468}
95421:4	$0, 0, 0, 0, \frac{4}{111}\sqrt{110}e^{12}, \frac{4}{111}\sqrt{110}e^{15}, \frac{8}{111}\sqrt{33}e^{25}, \frac{8}{111}\sqrt{33}e^{16},$ $\frac{8}{111}\sqrt{11}e^{18} + \frac{4}{111}\sqrt{154}e^{34}$	$(\frac{5}{111}, \frac{4}{37}, \frac{104}{111}, -\frac{24}{37}, \frac{17}{111}, \frac{22}{111}, \frac{29}{111}, \frac{9}{37}, \frac{32}{111})$ $+\frac{176}{111}e^3 \otimes e_4$	{123679, 124679, 235689, 245689}
95421:5	$0, 0, 0, 0, \frac{1}{57}\sqrt{2363}e^{12}, \frac{1}{171}\sqrt{5421}e^{15}, \frac{1}{171}\sqrt{21823}e^{25}, \frac{1}{171}\sqrt{4865}e^{16},$ $\frac{1}{171}\sqrt{278}e^{18} + \frac{1}{57}\sqrt{1390}e^{23}$	$(-\frac{13}{114}, \frac{61}{171}, -\frac{26}{57}, \frac{8}{57}, \frac{83}{342}, \frac{22}{171}, \frac{205}{342}, \frac{5}{342}, -\frac{17}{171})$ $+\frac{7}{171}\sqrt{834}e^2 \otimes e_3$	{1345678, 135678, 346, 36}
95421:5	$0, 0, 0, 0, \frac{2}{939}\sqrt{25815}e^{12}, \frac{2}{2817}\sqrt{609234}e^{15}, \frac{2}{2817}\sqrt{2047990}e^{25},$ $\frac{2}{2817}\sqrt{209962}e^{16}, \frac{2}{2817}\sqrt{641933}e^{18} + \frac{2}{2817}\sqrt{686679}e^{23}$	$(\frac{25}{313}, -\frac{425}{2817}, \frac{100}{313}, 1, -\frac{200}{2817}, \frac{25}{2817}, -\frac{625}{2817}, \frac{250}{2817}, \frac{475}{2817})$ $+\frac{4}{2817}\sqrt{996459}e^4 \otimes e_7$	{1278, 15679, 245, 4689}
95421:5	$0, 0, 0, 0, \frac{1}{348}\sqrt{24054}e^{12}, \frac{1}{348}\sqrt{40934}e^{15}, \frac{1}{348}\sqrt{40090}e^{25},$ $\frac{1}{348}\sqrt{24898}e^{16}, \frac{1}{174}\sqrt{8018}e^{18} + \frac{1}{174}\sqrt{32494}e^{23}$	$(\frac{97}{696}, -\frac{3}{58}, \frac{97}{174}, -\frac{19}{29}, \frac{61}{696}, \frac{79}{348}, \frac{25}{696}, \frac{85}{232}, \frac{44}{87})$ $+\frac{2}{29}\sqrt{422}e^3 \otimes e_4$	{1245789, 1467, 249, 4568}
95421:5	$0, 0, 0, 0, \frac{58}{3009}\sqrt{777}e^{12}, \frac{4}{3009}\sqrt{216746}e^{15}, \frac{4}{3009}\sqrt{5365}e^{25},$ $\frac{40}{3009}\sqrt{2146}e^{16}, \frac{22}{3009}\sqrt{5365}e^{18} + \frac{2}{3009}\sqrt{239279}e^{23}$	$(\frac{11}{177}, \frac{53}{1003}, \frac{44}{177}, -\frac{653}{1003}, \frac{346}{3009}, \frac{533}{3009}, \frac{505}{3009}, \frac{240}{1003}, \frac{907}{3009})$ $+\frac{4}{1003}\sqrt{74037}e^1 \otimes e_4$	{12369, 1358, 23456789, 347}
95421:5	$0, 0, 0, 0, \frac{5}{539}\sqrt{1254}e^{12}, \frac{5}{539}\sqrt{1870}e^{15}, \frac{15}{539}\sqrt{110}e^{25}, \frac{5}{539}\sqrt{2266}e^{16},$ $\frac{10}{49}\sqrt{3}e^{18} + \frac{10}{539}\sqrt{143}e^{23}$	$(\frac{5}{49}, -\frac{5}{49}, \frac{20}{49}, -\frac{20}{49}, 0, \frac{5}{49}, -\frac{5}{49}, \frac{10}{49}, \frac{15}{49})$ $+\frac{5}{539}\sqrt{3806}e^3 \otimes e_7 + \frac{5}{539}\sqrt{6446}e^1 \otimes e_4$	{12679, 1578}
95421:5	$0, 0, 0, 0, \frac{2}{59}\sqrt{341}e^{12}, \frac{2}{59}\sqrt{62}e^{15}, \frac{2}{59}\sqrt{62}e^{25}, \frac{2}{59}\sqrt{217}e^{16},$ $\frac{6}{59}\sqrt{62}e^{18} + \frac{6}{59}\sqrt{62}e^{23}$	$(-\frac{2}{59}, \frac{5}{59}, -\frac{8}{59}, 1, \frac{3}{59}, \frac{1}{59}, \frac{8}{59}, -\frac{1}{59}, -\frac{3}{59})$ $+\frac{14}{59}\sqrt{31}e^4 \otimes e_9$	{125679, 1478, 2689, 45}
95421:5	$0, 0, 0, 0, \frac{28}{1161}\sqrt{183}e^{12}, \frac{56}{1161}e^{15}, \frac{14}{1161}\sqrt{1258}e^{25}, \frac{98}{1161}\sqrt{2}e^{16},$ $\frac{28}{1161}\sqrt{97}e^{18} + \frac{14}{1161}\sqrt{6}e^{23}$	$(\frac{28}{387}, -\frac{70}{1161}, \frac{112}{387}, -\frac{154}{387}, \frac{14}{1161}, \frac{98}{1161}, -\frac{56}{1161}, \frac{182}{1161}, \frac{266}{1161})$ $+\frac{112}{1161}\sqrt{30}e^3 \otimes e_7 + \frac{14}{387}\sqrt{254}e^2 \otimes e_4$	{2358, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95421:5	$0, 0, 0, 0, \frac{13}{277} \sqrt{106}e^{12}, \frac{26}{277} \sqrt{13}e^{15}, \frac{156}{277} e^{25}, \frac{13}{277} \sqrt{14}e^{16},$ $\frac{26}{277} \sqrt{19}e^{18} + \frac{13}{277} \sqrt{22}e^{23}$	$(-\frac{26}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{39}{277}, \frac{13}{277}, \frac{104}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+ \frac{182}{277} e^4 \otimes e_9 + \frac{91}{277} \sqrt{6}e^2 \otimes e_3$	{1345678, 346}
95421:5	$0, 0, 0, 0, \frac{106}{8901} \sqrt{143}e^{12}, \frac{53}{8901} \sqrt{2694}e^{15}, \frac{53}{8901} \sqrt{8302}e^{25},$ $\frac{848}{8901} \sqrt{5}e^{16}, \frac{424}{8901} \sqrt{17}e^{18} + \frac{371}{2967} \sqrt{10}e^{23}$	$(-\frac{53}{989}, \frac{901}{8901}, -\frac{212}{989}, \frac{1378}{2967}, \frac{424}{8901}, -\frac{53}{8901}, \frac{1325}{8901}, -\frac{530}{8901}, -\frac{1007}{8901})$ $+ \frac{212}{8901} \sqrt{435}e^4 \otimes e_7 + \frac{53}{8901} \sqrt{9534}e^2 \otimes e_3$	{135678, 346}
95421:5	$0, 0, 0, 0, \frac{8}{269} \sqrt{155}e^{12}, \frac{8}{269} \sqrt{53}e^{15}, \frac{8}{269} \sqrt{103}e^{25}, \frac{16}{269} \sqrt{22}e^{16},$ $\frac{8}{269} \sqrt{165}e^{18} + \frac{8}{269} \sqrt{321}e^{23}$	$(\frac{16}{269}, -\frac{40}{269}, \frac{64}{269}, \frac{152}{269}, -\frac{24}{269}, -\frac{8}{269}, \frac{64}{269}, \frac{8}{269}, \frac{24}{269})$ $+ \frac{48}{269} \sqrt{13}e^3 \otimes e_7 + \frac{8}{269} \sqrt{499}e^4 \otimes e_9$	{26789, 457}
95421:5	$0, 0, 0, 0, \frac{18}{253} \sqrt{1045}e^{12}, \frac{9}{1265} \sqrt{1010}e^{15}, \frac{9}{1265} \sqrt{2710}e^{25},$ $\frac{18}{253} \sqrt{10}e^{16}, \frac{108}{1265} \sqrt{10}e^{18} + \frac{9}{1265} \sqrt{2330}e^{23}$	$(-\frac{9}{253}, \frac{45}{253}, -\frac{36}{253}, -\frac{90}{253}, \frac{36}{253}, \frac{27}{253}, \frac{81}{253}, \frac{18}{253}, \frac{9}{253})$ $+ \frac{36}{1265} \sqrt{365}e^1 \otimes e_4 + \frac{9}{1265} \sqrt{5470}e^2 \otimes e_3$	{13578, 34}
95421:5	$0, 0, 0, 0, \frac{4}{2889} \sqrt{62907}e^{12}, \frac{2}{963} \sqrt{11291}e^{15}, \frac{10}{2889} \sqrt{46777}e^{25},$ $\frac{2}{2889} \sqrt{366151}e^{16}, \frac{2}{2889} \sqrt{17743}e^{18} + \frac{2}{2889} \sqrt{1253301}e^{23}$	$(\frac{176}{963}, -\frac{821}{2889}, \frac{704}{963}, \frac{175}{963}, -\frac{293}{2889}, \frac{235}{2889}, -\frac{1114}{2889}, \frac{763}{2889}, \frac{1291}{2889})$ $+ \frac{4}{2889} \sqrt{953283}e^3 \otimes e_7$	{123456, 12356, 13489, 1389}
95421:6	$0, 0, 0, 0, \frac{8}{191} \sqrt{74}e^{12}, \frac{16}{191} \sqrt{2}e^{15}, \frac{16}{191} \sqrt{23}e^{13} + \frac{8}{191} \sqrt{97}e^{25},$ $\frac{8}{191} \sqrt{15}e^{16}, \frac{8}{191} \sqrt{46}e^{18} + \frac{8}{191} \sqrt{79}e^{34}$	$(-\frac{8}{191}, \frac{20}{191}, \frac{40}{191}, -\frac{52}{191}, \frac{12}{191}, \frac{4}{191}, \frac{32}{191}, -\frac{4}{191}, -\frac{12}{191})$ $+ \frac{16}{191} \sqrt{41}e^2 \otimes e_9$	{123478, 135679, 2345, 3689}
95421:6	$0, 0, 0, 0, \frac{8}{191} \sqrt{74}e^{12}, \frac{16}{191} \sqrt{2}e^{15}, \frac{16}{191} \sqrt{23}e^{13} + \frac{8}{191} \sqrt{97}e^{25},$ $\frac{8}{191} \sqrt{15}e^{16}, \frac{8}{191} \sqrt{46}e^{18} + \frac{8}{191} \sqrt{79}e^{34}$	$(-\frac{8}{191}, \frac{20}{191}, \frac{40}{191}, -\frac{52}{191}, \frac{12}{191}, \frac{4}{191}, \frac{32}{191}, -\frac{4}{191}, -\frac{12}{191})$ $- \frac{16}{191} \sqrt{41}e^2 \otimes e_9$	{123478, 135679, 2345, 3689}
95421:6	$0, 0, 0, 0, \frac{8}{109} \sqrt{10}e^{12}, \frac{16}{109} \sqrt{6}e^{15}, \frac{16}{109} \sqrt{15}e^{13} + \frac{8}{109} \sqrt{97}e^{25},$ $\frac{8}{109} \sqrt{5}e^{16}, \frac{8}{109} \sqrt{30}e^{18} + \frac{24}{109} \sqrt{11}e^{34}$	$(\frac{44}{327}, -\frac{52}{327}, -\frac{104}{327}, \frac{76}{109}, -\frac{8}{327}, \frac{12}{109}, -\frac{20}{109}, \frac{80}{327}, \frac{124}{327})$ $+ \frac{32}{109} \sqrt{17}e^4 \otimes e_7$	{127, 469}
95421:6	$0, 0, 0, 0, \frac{4}{13} \sqrt{2}e^{12}, \frac{4}{13} \sqrt{2}e^{15}, \frac{32}{65} \sqrt{5}e^{13} + \frac{8}{65} \sqrt{15}e^{25},$ $\frac{8}{65} \sqrt{15}e^{16}, \frac{8}{65} \sqrt{5}e^{18} + \frac{4}{65} \sqrt{70}e^{34}$	$(-\frac{1}{13}, \frac{4}{13}, \frac{8}{13}, -\frac{8}{13}, \frac{3}{13}, \frac{2}{13}, \frac{7}{13}, \frac{1}{13}, 0)$ $+ \frac{16}{65} \sqrt{35}e^3 \otimes e_4$	{147, 458}
95421:7	$0, 0, 0, 0, \frac{19}{866} \sqrt{554}e^{12}, \frac{19}{866} \sqrt{46}e^{15}, \frac{19}{866} \sqrt{390}e^{25} + \frac{19}{433} \sqrt{258}e^{34},$ $\frac{19}{433} \sqrt{94}e^{16}, \frac{19}{866} \sqrt{1102}e^{18} + \frac{19}{866} \sqrt{758}e^{23}$	$(-\frac{38}{433}, \frac{95}{433}, -\frac{152}{433}, \frac{304}{433}, \frac{57}{433}, \frac{19}{433}, \frac{152}{433}, -\frac{19}{433}, -\frac{57}{433})$ $+ \frac{323}{866} \sqrt{10}e^4 \otimes e_9$	{1478, 2689}
95421:7	$0, 0, 0, 0, \frac{178}{6573} \sqrt{291}e^{12}, \frac{178}{6573} \sqrt{443}e^{15},$ $\frac{89}{6573} \sqrt{1630}e^{25} + \frac{178}{6573} \sqrt{186}e^{34}, \frac{356}{6573} \sqrt{70}e^{16}, \frac{89}{6573} \sqrt{1490}e^{18} + \frac{89}{6573} \sqrt{6058}e^{23}$	$(\frac{979}{6573}, -\frac{178}{2191}, \frac{3916}{6573}, -\frac{1335}{2191}, \frac{445}{6573}, \frac{1424}{6573}, -\frac{89}{6573}, \frac{801}{2191}, \frac{3382}{6573})$ $+ \frac{445}{6573} \sqrt{438}e^3 \otimes e_4$	{249, 4568}
95421:8	$0, 0, 0, 0, \frac{124}{1369} \sqrt{33}e^{12}, \frac{31}{1369} \sqrt{691}e^{15},$ $-\frac{31}{1369} \sqrt{215}e^{13} + \frac{31}{1369} \sqrt{65}e^{25}, \frac{31}{1369} \sqrt{665}e^{16}, \frac{31}{1369} \sqrt{515}e^{18} + \frac{31}{1369} \sqrt{241}e^{23}$	$(\frac{62}{1369}, \frac{124}{1369}, \frac{248}{1369}, -\frac{899}{1369}, \frac{186}{1369}, \frac{248}{1369}, \frac{310}{1369}, \frac{310}{1369}, \frac{372}{1369})$ $+ \frac{558}{1369} \sqrt{7}e^1 \otimes e_4$	{12369, 1358, 23456789, 347, 12369, 1358, 23456789, 347}
95421:8	$0, 0, 0, 0, \frac{124}{1369} \sqrt{33}e^{12}, \frac{31}{1369} \sqrt{691}e^{15},$ $\frac{31}{1369} \sqrt{215}e^{13} + \frac{31}{1369} \sqrt{65}e^{25}, \frac{31}{1369} \sqrt{665}e^{16}, \frac{31}{1369} \sqrt{515}e^{18} + \frac{31}{1369} \sqrt{241}e^{23}$	$(\frac{62}{1369}, \frac{124}{1369}, \frac{248}{1369}, -\frac{899}{1369}, \frac{186}{1369}, \frac{248}{1369}, \frac{310}{1369}, \frac{310}{1369}, \frac{372}{1369})$ $+ \frac{558}{1369} \sqrt{7}e^1 \otimes e_4$	{12369, 1358, 23456789, 347, 12369, 1358, 23456789, 347}
95421:8	$0, 0, 0, 0, \frac{8}{41} \sqrt{15}e^{12}, \frac{8}{41} \sqrt{2}e^{15}, -\frac{8}{41} \sqrt{10}e^{13} + \frac{12}{41} \sqrt{6}e^{25},$ $\frac{4}{41} \sqrt{2}e^{16}, \frac{8}{41} \sqrt{3}e^{18} + \frac{4}{41} \sqrt{34}e^{23}$	$(\frac{2}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{6}{41}, \frac{8}{41}, \frac{10}{41}, \frac{10}{41}, \frac{12}{41})$ $+ \frac{4}{41} \sqrt{138}e^2 \otimes e_4$	{12367, 1345789, 23568, 349, 12367, 1345789, 23568, 349}
95421:8	$0, 0, 0, 0, \frac{8}{41} \sqrt{15}e^{12}, \frac{8}{41} \sqrt{2}e^{15}, \frac{8}{41} \sqrt{10}e^{13} + \frac{12}{41} \sqrt{6}e^{25},$ $\frac{4}{41} \sqrt{2}e^{16}, \frac{8}{41} \sqrt{3}e^{18} + \frac{4}{41} \sqrt{34}e^{23}$	$(\frac{2}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{6}{41}, \frac{8}{41}, \frac{10}{41}, \frac{10}{41}, \frac{12}{41})$ $+ \frac{4}{41} \sqrt{138}e^2 \otimes e_4$	{12367, 1345789, 23568, 349, 12367, 1345789, 23568, 349}
95421:9	$0, 0, 0, 0, \frac{26}{277} \sqrt{47}e^{12}, \frac{26}{277} \sqrt{13}e^{15}, \frac{91}{277} \sqrt{6}e^{13} + \frac{65}{277} \sqrt{6}e^{25},$ $\frac{13}{277} \sqrt{14}e^{16}, \frac{26}{277} \sqrt{19}e^{18} + \frac{52}{277} \sqrt{17}e^{24}$	$(-\frac{26}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{39}{277}, \frac{13}{277}, \frac{104}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+ \frac{91}{277} \sqrt{10}e^3 \otimes e_9$	{1479, 4589}
95421:9	$0, 0, 0, 0, \frac{472}{4573} \sqrt{26}e^{12}, \frac{236}{4573} \sqrt{42}e^{15},$ $\frac{59}{4573} \sqrt{4334}e^{13} + \frac{59}{4573} \sqrt{510}e^{25}, \frac{354}{4573} \sqrt{13}e^{16}, \frac{89}{4573} \sqrt{1562}e^{18} + \frac{59}{4573} \sqrt{3954}e^{24}$	$(\frac{649}{4573}, -\frac{767}{4573}, -\frac{1534}{4573}, \frac{2596}{4573}, -\frac{118}{4573}, \frac{531}{4573}, -\frac{885}{4573}, \frac{1180}{4573}, \frac{1829}{4573})$ $+ \frac{118}{4573} \sqrt{1970}e^4 \otimes e_7$	{23679, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95421:9	$0, 0, 0, 0, \frac{13}{277}\sqrt{302}e^{12}, \frac{26}{277}\sqrt{13}e^{15}, \frac{182}{277}e^{13} + \frac{26}{277}\sqrt{85}e^{25},$ $\frac{13}{277}\sqrt{14}e^{16}, \frac{26}{277}\sqrt{19}e^{18} + \frac{13}{277}\sqrt{218}e^{24}$	$(-\frac{26}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{39}{277}, \frac{13}{277}, \frac{104}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+ \frac{91}{277}\sqrt{10}e^2 \otimes e_4$	{1345678, 346}
95421:9	$0, 0, 0, 0, \frac{82}{4773}\sqrt{777}e^{12}, \frac{82}{4773}\sqrt{743}e^{15},$ $\frac{41}{1591}\sqrt{506}e^{13} + \frac{41}{4773}\sqrt{1730}e^{25}, \frac{164}{4773}\sqrt{229}e^{16}, \frac{41}{4773}\sqrt{3454}e^{18} + \frac{41}{4773}\sqrt{2342}e^{24}$	$(\frac{451}{4773}, -\frac{205}{1591}, -\frac{410}{1591}, \frac{1804}{4773}, -\frac{164}{4773}, \frac{287}{4773}, -\frac{779}{4773}, \frac{246}{1591}, \frac{1189}{4773})$ $+ \frac{82}{1591}\sqrt{230}e^1 \otimes e_3$	{2345689, 34}
95421:10	$0, 0, 0, 0, \frac{2}{1807}\sqrt{237355}e^{12}, \frac{1}{1807}\sqrt{1295830}e^{15}, \frac{1}{1807}\sqrt{166790}e^{25},$ $\frac{1}{1807}\sqrt{1229114}e^{16}, \frac{1}{1807}\sqrt{916062}e^{18} + \frac{1}{1807}\sqrt{356674}e^{27}$	$(\frac{96}{1807}, \frac{144}{1807}, -\frac{1187}{1807}, \frac{310}{1807}, \frac{240}{1807}, \frac{336}{1807}, \frac{384}{1807}, \frac{432}{1807}, \frac{528}{1807})$ $+ \frac{1}{1807}\sqrt{3841302}e^1 \otimes e_3$	{23456789, 2356789, 347, 37}
95421:10	$0, 0, 0, 0, \frac{2}{3437}\sqrt{191170}e^{12}, \frac{4}{3437}\sqrt{92854}e^{15}, \frac{2}{3437}\sqrt{518890}e^{25},$ $\frac{4}{3437}\sqrt{144743}e^{16}, \frac{12}{3437}\sqrt{8193}e^{18} + \frac{8}{3437}\sqrt{30041}e^{27}$	$(\frac{180}{3437}, \frac{270}{3437}, 1, -\frac{2025}{3437}, \frac{450}{3437}, \frac{90}{491}, \frac{720}{3437}, \frac{810}{3437}, \frac{990}{3437})$ $+ \frac{5462}{3437}e^3 \otimes e_4$	{235689, 245689, 3, 4}
95421:10	$0, 0, 0, 0, \frac{236}{8389}\sqrt{95}e^{12}, \frac{177}{8389}\sqrt{106}e^{15}, \frac{59}{8389}\sqrt{3794}e^{25},$ $\frac{59}{8389}\sqrt{130}e^{16}, \frac{59}{8389}\sqrt{978}e^{18} + \frac{118}{8389}\sqrt{1190}e^{27}$	$(\frac{118}{8389}, \frac{177}{8389}, \frac{4130}{8389}, -\frac{3304}{8389}, \frac{295}{8389}, \frac{413}{8389}, \frac{472}{8389}, \frac{531}{8389}, \frac{649}{8389})$ $+ \frac{295}{8389}\sqrt{254}e^3 \otimes e_9 + \frac{59}{8389}\sqrt{8518}e^2 \otimes e_4$	{12378, 145679}
95421:10	$0, 0, 0, 0, \frac{58}{4125}\sqrt{161}e^{12}, \frac{116}{4125}\sqrt{131}e^{15}, \frac{116}{4125}\sqrt{2}e^{25},$ $\frac{58}{4125}\sqrt{821}e^{16}, \frac{116}{4125}\sqrt{265}e^{18} + \frac{116}{4125}\sqrt{65}e^{27}$	$(\frac{58}{4125}, \frac{29}{1375}, \frac{667}{1375}, -\frac{1624}{4125}, \frac{29}{825}, \frac{203}{4125}, \frac{232}{4125}, \frac{87}{1375}, \frac{29}{375})$ $+ \frac{116}{1375}\sqrt{59}e^1 \otimes e_4 + \frac{58}{4125}\sqrt{1501}e^3 \otimes e_9$	{1269, 1358}
95421:10	$0, 0, 0, 0, \frac{38}{3489}\sqrt{3235}e^{12}, \frac{152}{3489}\sqrt{85}e^{15}, \frac{76}{3489}\sqrt{370}e^{25},$ $\frac{38}{3489}\sqrt{2105}e^{16}, \frac{152}{3489}\sqrt{355}e^{18} + \frac{1900}{3489}\sqrt{2}e^{27}$	$(-\frac{22}{3489}, -\frac{11}{1163}, 1, \frac{616}{3489}, -\frac{55}{3489}, -\frac{77}{3489}, -\frac{88}{3489}, -\frac{33}{1163}, -\frac{121}{3489})$ $+ \frac{494}{3489}\sqrt{85}e^3 \otimes e_9$	{124569, 12569, 1348, 138}
95421:10	$0, 0, 0, 0, \frac{200}{3397}\sqrt{55}e^{12}, \frac{50}{3397}\sqrt{457}e^{15}, \frac{100}{3397}\sqrt{118}e^{25},$ $\frac{100}{3397}\sqrt{89}e^{16}, \frac{50}{3397}\sqrt{105}e^{18} + \frac{100}{3397}\sqrt{74}e^{27}$	$(\frac{150}{3397}, \frac{225}{3397}, -\frac{1100}{3397}, -\frac{1025}{3397}, \frac{375}{3397}, \frac{525}{3397}, \frac{600}{3397}, \frac{675}{3397}, \frac{825}{3397})$ $+ \frac{100}{3397}\sqrt{381}e^1 \otimes e_3 + \frac{150}{3397}\sqrt{161}e^2 \otimes e_4$	{235689, 34}
95421:10	$0, 0, 0, 0, \frac{4}{3529}\sqrt{353245}e^{12}, \frac{2}{3529}\sqrt{62651}e^{15}, \frac{4}{3529}\sqrt{397234}e^{25},$ $\frac{8}{3529}\sqrt{13330}e^{16}, \frac{2}{3529}\sqrt{627843}e^{18} + \frac{28}{3529}\sqrt{6665}e^{27}$	$(\frac{198}{3529}, \frac{297}{3529}, -\frac{2369}{3529}, \frac{580}{3529}, \frac{495}{3529}, \frac{693}{3529}, \frac{792}{3529}, \frac{891}{3529}, \frac{1089}{3529})$ $+ \frac{2}{3529}\sqrt{3931017}e^2 \otimes e_3$	{1247, 127, 13456789, 1356789}
95421:15	$0, 0, 0, 0, \frac{112}{3963}\sqrt{134}e^{12}, \frac{224}{3963}\sqrt{47}e^{15}, \frac{112}{3963}\sqrt{213}e^{25},$ $\frac{112}{3963}\sqrt{231}e^{16}, \frac{560}{3963}\sqrt{2}e^{18} + \frac{448}{1321}e^{27} + \frac{112}{3963}\sqrt{211}e^{34}$	$(\frac{224}{3963}, \frac{112}{1321}, \frac{3752}{3963}, -\frac{840}{1321}, \frac{560}{3963}, \frac{784}{3963}, \frac{896}{3963}, \frac{336}{1321}, \frac{1232}{3963})$ $+ \frac{6272}{3963}e^3 \otimes e_4$	{235689, 245689}
95321:1	$0, 0, 0, 0, \frac{76}{287}\sqrt{2}e^{12}, \frac{8}{287}\sqrt{57}e^{34}, \frac{16}{287}\sqrt{57}e^{15}, \frac{4}{287}\sqrt{1577}e^{17},$ $\frac{4}{287}\sqrt{1273}e^{18}$	$(\frac{51}{287}, -\frac{101}{287}, \frac{100}{287}, -\frac{52}{287}, -\frac{50}{287}, \frac{48}{287}, \frac{1}{287}, \frac{52}{287}, \frac{103}{287})$ $+ \frac{152}{287}e^3 \otimes e_4 + \frac{20}{287}\sqrt{133}e^1 \otimes e_2$	{13679, 14679, 236, 246}
95321:1	$0, 0, 0, 0, \frac{4}{79}\sqrt{39}e^{12}, \frac{2}{79}\sqrt{286}e^{34}, \frac{6}{79}\sqrt{26}e^{15}, \frac{6}{79}\sqrt{26}e^{17},$ $\frac{4}{79}\sqrt{39}e^{18}$	$(\frac{6}{79}, 0, \frac{3}{79}, -\frac{23}{79}, \frac{6}{79}, -\frac{20}{79}, \frac{12}{79}, \frac{18}{79}, \frac{24}{79})$ $+ \frac{26}{79}e^3 \otimes e_4 + \frac{6}{79}\sqrt{78}e^1 \otimes e_6$	{2356789, 2456789, 36, 46}
95321:1	$0, 0, 0, 0, \frac{2}{33}\sqrt{39}e^{12}, \frac{1}{33}\sqrt{286}e^{34}, \frac{1}{11}\sqrt{26}e^{15}, \frac{1}{11}\sqrt{26}e^{17},$ $\frac{2}{33}\sqrt{39}e^{18}$	$(\frac{1}{11}, 0, -\frac{5}{33}, -\frac{5}{33}, \frac{1}{11}, -\frac{10}{33}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11})$ $+ \frac{1}{11}\sqrt{78}e^1 \otimes e_6$	{123479, 1279, 13458, 158, 2356789, 36}
95321:1	$0, 0, 0, 0, \frac{1}{569}\sqrt{30458}e^{12}, \frac{1}{569}\sqrt{30615}e^{34}, \frac{1}{569}\sqrt{13659}e^{15},$ $\frac{1}{569}\sqrt{45530}e^{17}, \frac{1}{569}\sqrt{65155}e^{18}$	$(\frac{39}{569}, -\frac{118}{569}, \frac{195}{569}, -\frac{36}{569}, -\frac{79}{569}, \frac{159}{569}, -\frac{40}{569}, -\frac{1}{569}, \frac{38}{569})$ $+ \frac{1}{569}\sqrt{72534}e^3 \otimes e_9 + \frac{1}{569}\sqrt{86821}e^1 \otimes e_2$	{14679, 179, 234, 236}
95321:1	$0, 0, 0, 0, \frac{2}{615}\sqrt{11049}e^{12}, \frac{2}{615}\sqrt{26035}e^{34}, \frac{2}{615}\sqrt{762}e^{15}, \frac{2}{615}\sqrt{762}e^{17},$ $\frac{2}{615}\sqrt{11049}e^{18}$	$(-\frac{31}{205}, \frac{17}{41}, \frac{137}{615}, -\frac{136}{615}, \frac{54}{205}, \frac{1}{615}, \frac{23}{205}, -\frac{8}{205}, -\frac{39}{205})$ $+ \frac{2}{615}\sqrt{34671}e^2 \otimes e_6 + \frac{2}{615}\sqrt{34671}e^3 \otimes e_9$	{129, 135678, 2589, 367}
95321:1	$0, 0, 0, 0, \frac{76}{211}\sqrt{2}e^{12}, \frac{8}{211}\sqrt{57}e^{34}, \frac{16}{211}\sqrt{57}e^{15}, \frac{4}{211}\sqrt{1577}e^{17},$ $\frac{4}{211}\sqrt{1273}e^{18}$	$(\frac{51}{211}, -\frac{101}{211}, \frac{24}{211}, \frac{24}{211}, -\frac{50}{211}, \frac{48}{211}, \frac{1}{211}, \frac{52}{211}, \frac{103}{211})$ $+ \frac{20}{211}\sqrt{133}e^1 \otimes e_2$	{13479, 13679, 179, 2, 234, 236}
95321:1	$0, 0, 0, 0, \frac{72}{4837}\sqrt{1531}e^{12}, \frac{2}{4837}\sqrt{1687162}e^{34}, \frac{6}{4837}\sqrt{52054}e^{15},$ $\frac{8}{4837}\sqrt{22965}e^{17}, \frac{6}{4837}\sqrt{58178}e^{18}$	$(-\frac{444}{4837}, \frac{2010}{4837}, \frac{1005}{4837}, -\frac{2057}{4837}, \frac{1566}{4837}, -\frac{1052}{4837}, \frac{1122}{4837}, \frac{678}{4837}, \frac{234}{4837})$ $+ \frac{2}{4837}\sqrt{4179630}e^2 \otimes e_6 + \frac{3062}{4837}e^3 \otimes e_4$	{1356, 1456, 368, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:1	$0, 0, 0, 0, \frac{32}{161}\sqrt{3}e^{12}, \frac{16}{161}\sqrt{22}e^{34}, \frac{48}{161}\sqrt{2}e^{15}, \frac{48}{161}\sqrt{2}e^{17}, \frac{32}{161}\sqrt{3}e^{18}$	$(\frac{3}{161}, \frac{27}{161}, \frac{150}{161}, -\frac{106}{161}, \frac{30}{161}, \frac{44}{161}, \frac{33}{161}, \frac{36}{161}, \frac{39}{161})$ $+\frac{256}{161}e^3 \otimes e_4$	{123679, 124679, 13568, 14568, 2356789, 2456789, 36, 46}
95321:1	$0, 0, 0, 0, \frac{1}{551}\sqrt{58178}e^{12}, \frac{1}{1653}\sqrt{1687162}e^{34}, \frac{4}{1653}\sqrt{22965}e^{15}, \frac{1}{551}\sqrt{52054}e^{17}, \frac{12}{551}\sqrt{1531}e^{18}$	$(-\frac{74}{551}, \frac{153}{551}, \frac{2}{3}, -\frac{263}{1653}, \frac{79}{551}, \frac{839}{1653}, \frac{5}{551}, -\frac{69}{551}, -\frac{143}{551})$ $+\frac{1}{1653}\sqrt{4179630}e^3 \otimes e_9$	{1245679, 12579, 1348, 1368, 246789, 2789, 345, 356}
95321:1	$0, 0, 0, 0, \frac{1}{803}\sqrt{6766}e^{12}, \frac{1}{2409}\sqrt{319594}e^{34}, \frac{4}{2409}\sqrt{7761}e^{15}, \frac{1}{803}\sqrt{21094}e^{17}, \frac{12}{803}\sqrt{199}e^{18}$	$(-\frac{2}{803}, \frac{45}{803}, \frac{310}{2409}, -\frac{515}{2409}, \frac{43}{803}, -\frac{205}{2409}, \frac{41}{803}, \frac{39}{803}, \frac{37}{803})$ $+\frac{12}{803}\sqrt{398}e^1 \otimes e_6 + \frac{5}{2409}\sqrt{13134}e^3 \otimes e_9$	{1279, 13458, 2456789, 36}
95321:1	$0, 0, 0, 0, \frac{12}{551}\sqrt{1531}e^{12}, \frac{1}{1653}\sqrt{1687162}e^{34}, \frac{1}{551}\sqrt{52054}e^{15}, \frac{4}{1653}\sqrt{22965}e^{17}, \frac{1}{551}\sqrt{58178}e^{18}$	$(-\frac{74}{551}, \frac{335}{551}, -\frac{263}{1653}, -\frac{263}{1653}, \frac{9}{19}, -\frac{526}{1653}, \frac{187}{551}, \frac{113}{551}, \frac{39}{551})$ $+\frac{1}{1653}\sqrt{4179630}e^2 \otimes e_6$	{1234789, 12789, 1356, 234579, 2579, 368}
95321:2	$0, 0, 0, 0, \frac{1}{287}\sqrt{19027}e^{12}, \frac{1}{287}\sqrt{13283}e^{13}, \frac{4}{287}\sqrt{718}e^{15}, \frac{3}{287}\sqrt{2513}e^{17}, \frac{2}{287}\sqrt{20822}e^{18}$	$(-\frac{37}{287}, \frac{76}{287}, \frac{68}{287}, \frac{1}{287}, \frac{39}{287}, \frac{31}{287}, \frac{2}{287}, -\frac{5}{41}, -\frac{72}{287})$ $+\frac{5}{287}\sqrt{6821}e^4 \otimes e_9$	{1235679, 12579, 13468, 148, 23789, 26789, 345, 456}
95321:2	$0, 0, 0, 0, \frac{12}{451}\sqrt{201}e^{12}, \frac{2}{451}\sqrt{18291}e^{13}, \frac{3}{451}\sqrt{1273}e^{15}, \frac{2}{451}\sqrt{7437}e^{17}, \frac{3}{451}\sqrt{2881}e^{18}$	$(-\frac{5}{41}, \frac{375}{902}, \frac{83}{902}, -\frac{29}{82}, \frac{265}{902}, -\frac{27}{902}, \frac{155}{902}, \frac{45}{902}, -\frac{65}{902})$ $+\frac{1}{451}\sqrt{76983}e^3 \otimes e_4 + \frac{1}{451}\sqrt{91455}e^2 \otimes e_6$	{123, 1456789, 2458, 3679}
95321:2	$0, 0, 0, 0, \frac{1}{217}\sqrt{462}e^{12}, \frac{1}{217}\sqrt{6006}e^{13}, \frac{1}{217}\sqrt{2002}e^{15}, \frac{2}{217}\sqrt{1155}e^{17}, \frac{6}{217}\sqrt{231}e^{18}$	$(-\frac{1}{31}, \frac{3}{31}, \frac{10}{31}, -\frac{12}{31}, \frac{9}{31}, \frac{1}{31}, 0, -\frac{1}{31})$ $+\frac{1}{217}\sqrt{13090}e^3 \otimes e_9 + \frac{6}{217}\sqrt{462}e^1 \otimes e_4$	{12679, 1358, 245789, 346}
95321:2	$0, 0, 0, 0, \frac{2}{253}\sqrt{4026}e^{12}, \frac{1}{253}\sqrt{4026}e^{13}, \frac{6}{253}\sqrt{671}e^{15}, \frac{6}{253}\sqrt{671}e^{17}, \frac{2}{253}\sqrt{4026}e^{18}$	$(\frac{2}{23}, \frac{2}{253}, \frac{35}{253}, -\frac{7}{11}, \frac{24}{253}, \frac{57}{253}, \frac{2}{11}, \frac{68}{253}, \frac{90}{253})$ $+\frac{3}{253}\sqrt{8418}e^1 \otimes e_4$	{12379, 12679, 1358, 1568, 23456789, 245789, 346, 4}
95321:2	$0, 0, 0, 0, \frac{1}{1123}\sqrt{448890}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{1}{1123}\sqrt{453494}e^{15}, \frac{2}{1123}\sqrt{3453}e^{17}, \frac{6}{1123}\sqrt{24171}e^{18}$	$(-\frac{193}{1123}, \frac{363}{1123}, \frac{742}{1123}, \frac{168}{1123}, \frac{170}{1123}, \frac{549}{1123}, -\frac{23}{1123}, -\frac{216}{1123}, -\frac{409}{1123})$ $+\frac{1}{1123}\sqrt{2198410}e^3 \otimes e_9$	{1234578, 123578, 1469, 169, 23467, 2367, 4589, 589}
95321:2	$0, 0, 0, 0, \frac{4}{1213}\sqrt{26381}e^{12}, \frac{1}{1213}\sqrt{239982}e^{13}, \frac{1}{1213}\sqrt{403374}e^{15}, \frac{4}{1213}\sqrt{46805}e^{17}, \frac{19}{1213}\sqrt{1702}e^{18}$	$(\frac{282}{1213}, -\frac{569}{1213}, \frac{57}{1213}, \frac{198}{1213}, -\frac{287}{1213}, \frac{339}{1213}, -\frac{5}{1213}, \frac{277}{1213}, \frac{559}{1213})$ $+\frac{1}{1213}\sqrt{1727530}e^1 \otimes e_2$	{13479, 1379, 14679, 1679, 2, 2346, 236, 24}
95321:2	$0, 0, 0, 0, \frac{6}{379}\sqrt{638}e^{12}, \frac{3}{379}\sqrt{2387}e^{13}, \frac{3}{379}\sqrt{2409}e^{15}, \frac{132}{379}e^{17}, \frac{3}{379}\sqrt{1133}e^{18}$	$(\frac{15}{379}, \frac{31}{379}, -\frac{84}{379}, -\frac{68}{379}, \frac{46}{379}, -\frac{69}{379}, \frac{61}{379}, \frac{76}{379}, \frac{91}{379})$ $+\frac{12}{379}\sqrt{319}e^1 \otimes e_3 + \frac{3}{379}\sqrt{2365}e^2 \otimes e_4$	{1279, 1458, 235789, 34}
95321:2	$0, 0, 0, 0, \frac{4}{121}\sqrt{210}e^{12}, \frac{8}{121}\sqrt{77}e^{13}, \frac{12}{121}\sqrt{35}e^{15}, \frac{12}{121}\sqrt{35}e^{17}, \frac{4}{121}\sqrt{210}e^{18}$	$(\frac{15}{121}, -\frac{12}{121}, -\frac{41}{121}, \frac{18}{121}, \frac{3}{121}, -\frac{26}{121}, \frac{18}{121}, \frac{3}{11}, \frac{48}{121})$ $+\frac{4}{121}\sqrt{721}e^1 \otimes e_3$	{12479, 1279, 1458, 158, 2345789, 235789, 3, 34}
95321:2	$0, 0, 0, 0, \frac{2}{287}\sqrt{20822}e^{12}, \frac{1}{287}\sqrt{13283}e^{13}, \frac{3}{287}\sqrt{2513}e^{15}, \frac{4}{287}\sqrt{718}e^{17}, \frac{1}{287}\sqrt{19027}e^{18}$	$(-\frac{37}{287}, \frac{171}{287}, \frac{68}{287}, -\frac{188}{287}, \frac{134}{287}, \frac{31}{287}, \frac{97}{287}, \frac{60}{287}, \frac{23}{287})$ $+\frac{5}{287}\sqrt{6821}e^2 \otimes e_4$	{1236789, 12789, 13456, 145, 23579, 25679, 348, 468}
95321:2	$0, 0, 0, 0, \frac{2}{223}\sqrt{1415}e^{12}, \frac{1}{223}\sqrt{51506}e^{13}, \frac{1}{223}\sqrt{8490}e^{15}, \frac{1}{223}\sqrt{8490}e^{17}, \frac{2}{223}\sqrt{1415}e^{18}$	$(-\frac{5}{223}, \frac{46}{223}, -\frac{55}{223}, \frac{1}{223}, \frac{41}{223}, -\frac{60}{223}, \frac{36}{223}, \frac{31}{223}, \frac{26}{223})$ $+\frac{1}{223}\sqrt{105842}e^4 \otimes e_6$	{12345789, 1256789, 134, 16, 23679, 2479, 3568, 458}
95321:2	$0, 0, 0, 0, \frac{6}{1123}\sqrt{24171}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{2}{1123}\sqrt{3453}e^{15}, \frac{1}{1123}\sqrt{453494}e^{17}, \frac{1}{1123}\sqrt{448890}e^{18}$	$(-\frac{193}{1123}, \frac{745}{1123}, -\frac{213}{1123}, \frac{168}{1123}, \frac{552}{1123}, -\frac{406}{1123}, \frac{359}{1123}, \frac{166}{1123}, -\frac{27}{1123})$ $+\frac{1}{1123}\sqrt{2198410}e^2 \otimes e_6$	{123, 1234, 1456789, 156789, 2458, 258, 34679, 3679}
95321:2	$0, 0, 0, 0, \frac{4}{299}\sqrt{1122}e^{12}, \frac{8}{299}\sqrt{374}e^{13}, \frac{12}{299}\sqrt{187}e^{15}, \frac{12}{299}\sqrt{187}e^{17}, \frac{4}{299}\sqrt{1122}e^{18}$	$(\frac{33}{299}, -\frac{24}{299}, -\frac{103}{299}, \frac{66}{299}, \frac{9}{299}, -\frac{70}{299}, \frac{42}{299}, \frac{75}{299}, \frac{108}{299})$ $+\frac{4}{299}\sqrt{3961}e^1 \otimes e_3 + \frac{8}{299}\sqrt{102}e^4 \otimes e_6$	{12479, 1458, 2345789, 34}
95321:2	$0, 0, 0, 0, \frac{20}{417}\sqrt{31}e^{12}, \frac{20}{417}\sqrt{151}e^{13}, \frac{140}{417}e^{15}, \frac{140}{417}e^{17}, \frac{20}{417}\sqrt{31}e^{18}$	$(-\frac{80}{417}, \frac{65}{139}, \frac{25}{139}, \frac{35}{417}, \frac{115}{417}, -\frac{5}{417}, \frac{35}{417}, -\frac{15}{139}, -\frac{125}{417})$ $+\frac{20}{417}\sqrt{191}e^2 \otimes e_6 + \frac{20}{417}\sqrt{191}e^3 \otimes e_9$	{24589, 2589, 3467, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:2	$0, 0, 0, 0, \frac{3}{451}\sqrt{2881}e^{12}, \frac{2}{451}\sqrt{18291}e^{13}, \frac{2}{451}\sqrt{7437}e^{15}, \frac{3}{451}\sqrt{1273}e^{17}, \frac{12}{451}\sqrt{201}e^{18}$	$(-\frac{5}{41}, \frac{193}{902}, \frac{155}{902}, \frac{447}{902}, \frac{83}{902}, \frac{45}{902}, -\frac{27}{902}, -\frac{137}{902}, -\frac{247}{902})$ $+\frac{1}{451}\sqrt{76983}e^4 \otimes e_6 + \frac{1}{451}\sqrt{91455}e^3 \otimes e_9$	{1234578, 169, 2367, 4589}
95321:2	$0, 0, 0, 0, \frac{3}{155}\sqrt{546}e^{12}, \frac{9}{155}\sqrt{70}e^{13}, \frac{6}{155}\sqrt{42}e^{15}, \frac{3}{155}\sqrt{258}e^{17}, \frac{6}{155}\sqrt{69}e^{18}$	$(-\frac{26}{155}, \frac{29}{62}, -\frac{19}{310}, \frac{153}{310}, \frac{3}{10}, -\frac{71}{310}, \frac{41}{310}, -\frac{11}{310}, -\frac{63}{310})$ $+\frac{3}{155}\sqrt{1434}e^4 \otimes e_9 + \frac{6}{155}\sqrt{471}e^2 \otimes e_6$	{1239, 145678, 2589, 3467}
95321:2	$0, 0, 0, 0, \frac{72}{589}\sqrt{14}e^{12}, \frac{8}{589}\sqrt{742}e^{13}, \frac{8}{589}\sqrt{1113}e^{15}, \frac{8}{589}\sqrt{917}e^{17}, \frac{8}{589}\sqrt{546}e^{18}$	$(\frac{25}{589}, \frac{50}{589}, -\frac{199}{589}, \frac{72}{589}, \frac{75}{589}, -\frac{174}{589}, \frac{100}{589}, \frac{125}{589}, \frac{150}{589})$ $+\frac{112}{589}\sqrt{5}e^2 \otimes e_6 + \frac{8}{589}\sqrt{2639}e^1 \otimes e_3$	{12479, 1279, 2345789, 235789}
95321:2	$0, 0, 0, 0, \frac{12}{1489}\sqrt{2201}e^{12}, \frac{3}{1489}\sqrt{50126}e^{13}, \frac{3}{1489}\sqrt{18318}e^{15}, \frac{12}{1489}\sqrt{2627}e^{17}, \frac{3}{1489}\sqrt{35926}e^{18}$	$(\frac{210}{1489}, -\frac{429}{1489}, -\frac{195}{1489}, \frac{654}{1489}, -\frac{219}{1489}, \frac{15}{1489}, -\frac{9}{1489}, \frac{201}{1489}, \frac{411}{1489})$ $+\frac{12}{1489}\sqrt{4402}e^4 \otimes e_6 + \frac{3}{1489}\sqrt{118570}e^1 \otimes e_2$	{13479, 1679, 236, 24}
95321:2	$0, 0, 0, 0, \frac{2}{223}\sqrt{1415}e^{12}, \frac{1}{223}\sqrt{51506}e^{13}, \frac{1}{223}\sqrt{8490}e^{15}, \frac{1}{223}\sqrt{8490}e^{17}, \frac{2}{223}\sqrt{1415}e^{18}$	$(-\frac{5}{223}, \frac{46}{223}, \frac{132}{223}, -\frac{151}{223}, \frac{41}{223}, \frac{127}{223}, \frac{36}{223}, \frac{31}{223}, \frac{26}{223})$ $+\frac{1}{223}\sqrt{105842}e^3 \otimes e_4$	{1235789, 12456789, 13, 146, 23679, 2479, 3568, 458}
95321:2	$0, 0, 0, 0, \frac{6}{155}\sqrt{69}e^{12}, \frac{9}{155}\sqrt{70}e^{13}, \frac{3}{155}\sqrt{258}e^{15}, \frac{6}{155}\sqrt{42}e^{17}, \frac{3}{155}\sqrt{546}e^{18}$	$(-\frac{26}{155}, \frac{13}{31}, \frac{69}{155}, -\frac{43}{155}, \frac{39}{155}, \frac{43}{155}, \frac{13}{155}, -\frac{13}{155}, -\frac{39}{155})$ $+\frac{3}{155}\sqrt{1434}e^2 \otimes e_4 + \frac{6}{155}\sqrt{471}e^3 \otimes e_9$	{1269, 134578, 2589, 3467}
95321:2	$0, 0, 0, 0, \frac{2}{1119}\sqrt{34827}e^{12}, \frac{2}{373}\sqrt{3995}e^{13}, \frac{8}{1119}\sqrt{141}e^{15}, \frac{4}{1119}\sqrt{7755}e^{17}, \frac{2}{1119}\sqrt{51465}e^{18}$	$(\frac{59}{1119}, -\frac{223}{1119}, \frac{295}{1119}, \frac{33}{373}, -\frac{164}{1119}, \frac{118}{373}, -\frac{35}{373}, -\frac{46}{1119}, \frac{13}{1119})$ $+\frac{2}{1119}\sqrt{63591}e^3 \otimes e_9 + \frac{2}{1119}\sqrt{80229}e^1 \otimes e_2$	{14679, 1679, 2346, 236}
95321:2	$0, 0, 0, 0, \frac{1}{431}\sqrt{24311}e^{12}, \frac{1}{431}\sqrt{5889}e^{13}, \frac{6}{431}\sqrt{302}e^{15}, \frac{1}{431}\sqrt{34277}e^{17}, \frac{4}{431}\sqrt{2869}e^{18}$	$(\frac{39}{431}, -\frac{112}{431}, \frac{24}{431}, \frac{195}{431}, -\frac{73}{431}, \frac{63}{431}, -\frac{34}{431}, \frac{5}{431}, \frac{44}{431})$ $+\frac{1}{431}\sqrt{45753}e^4 \otimes e_9 + \frac{2}{431}\sqrt{17818}e^1 \otimes e_2$	{1379, 1679, 2346, 24}
95321:2	$0, 0, 0, 0, \frac{6}{217}\sqrt{231}e^{12}, \frac{1}{217}\sqrt{6006}e^{13}, \frac{2}{217}\sqrt{1155}e^{15}, \frac{1}{217}\sqrt{2002}e^{17}, \frac{1}{217}\sqrt{462}e^{18}$	$(-\frac{1}{31}, \frac{55}{217}, -\frac{15}{217}, -\frac{12}{31}, \frac{48}{217}, -\frac{22}{217}, \frac{41}{217}, \frac{34}{217}, \frac{27}{217})$ $+\frac{1}{217}\sqrt{13090}e^2 \otimes e_6 + \frac{6}{217}\sqrt{462}e^1 \otimes e_4$	{12379, 1568, 245789, 346}
95321:2	$0, 0, 0, 0, \frac{12}{1489}\sqrt{2201}e^{12}, \frac{3}{1489}\sqrt{50126}e^{13}, \frac{3}{1489}\sqrt{18318}e^{15}, \frac{12}{1489}\sqrt{2627}e^{17}, \frac{3}{1489}\sqrt{35926}e^{18}$	$(\frac{210}{1489}, -\frac{429}{1489}, \frac{301}{1489}, -\frac{338}{1489}, -\frac{219}{1489}, \frac{511}{1489}, -\frac{9}{1489}, \frac{201}{1489}, \frac{411}{1489})$ $+\frac{12}{1489}\sqrt{4402}e^3 \otimes e_4 + \frac{3}{1489}\sqrt{118570}e^1 \otimes e_2$	{1379, 14679, 236, 24}
95321:2	$0, 0, 0, 0, \frac{3}{379}\sqrt{1133}e^{12}, \frac{3}{379}\sqrt{2387}e^{13}, \frac{132}{379}e^{15}, \frac{3}{379}\sqrt{2409}e^{17}, \frac{6}{379}\sqrt{638}e^{18}$	$(\frac{15}{379}, -\frac{12}{379}, -\frac{84}{379}, \frac{147}{379}, \frac{3}{379}, -\frac{69}{379}, \frac{18}{379}, \frac{33}{379}, \frac{48}{379})$ $+\frac{12}{379}\sqrt{319}e^1 \otimes e_3 + \frac{3}{379}\sqrt{2365}e^4 \otimes e_9$	{1279, 1458, 235789, 34}
95321:3	$0, 0, 0, 0, \frac{4}{1055}\sqrt{7518}e^{12}, \frac{8}{1055}\sqrt{2327}e^{13}, \frac{2}{1055}\sqrt{39201}e^{25}, \frac{8}{1055}\sqrt{2327}e^{27}, \frac{6}{1055}\sqrt{2685}e^{28}$	$(\frac{31}{1055}, \frac{62}{1055}, -\frac{327}{1055}, \frac{144}{1055}, \frac{93}{1055}, -\frac{296}{1055}, \frac{31}{1055}, \frac{217}{1055}, \frac{279}{1055})$ $+\frac{2}{1055}\sqrt{47077}e^1 \otimes e_3 + \frac{36}{1055}\sqrt{358}e^2 \otimes e_6$	{1456789, 156789, 346, 36}
95321:3	$0, 0, 0, 0, \frac{2}{2039}\sqrt{58241}e^{12}, \frac{1}{2039}\sqrt{491906}e^{13}, \frac{16}{2039}\sqrt{1257}e^{25}, \frac{1}{2039}\sqrt{312574}e^{27}, \frac{7}{2039}\sqrt{4190}e^{28}$	$(\frac{31}{2039}, \frac{117}{2039}, -\frac{333}{2039}, -\frac{388}{2039}, \frac{148}{2039}, -\frac{302}{2039}, \frac{265}{2039}, \frac{382}{2039}, \frac{499}{2039})$ $+\frac{2}{2039}\sqrt{134499}e^1 \otimes e_4 + \frac{3}{2039}\sqrt{106426}e^2 \otimes e_6$	{12379, 156789, 2458, 346}
95321:3	$0, 0, 0, 0, \frac{2}{4577}\sqrt{868209}e^{12}, \frac{2}{4577}\sqrt{1438230}e^{13}, \frac{4}{4577}\sqrt{64005}e^{25}, \frac{2}{199}\sqrt{753}e^{27}, \frac{2}{4577}\sqrt{1094862}e^{28}$	$(-\frac{323}{4577}, -\frac{56}{4577}, \frac{959}{4577}, \frac{2142}{4577}, -\frac{379}{4577}, \frac{636}{4577}, -\frac{435}{4577}, -\frac{491}{4577}, -\frac{547}{4577})$ $+\frac{2}{4577}\sqrt{1833555}e^3 \otimes e_9 + \frac{4}{4577}\sqrt{321531}e^4 \otimes e_6$	{125679, 16789, 2368, 356}
95321:3	$0, 0, 0, 0, \frac{1}{181}\sqrt{7802}e^{12}, \frac{1}{181}\sqrt{17430}e^{13}, \frac{1}{181}\sqrt{2490}e^{25}, \frac{2}{181}\sqrt{249}e^{27}, \frac{2}{181}\sqrt{4565}e^{28}$	$(\frac{105}{181}, -\frac{83}{362}, -\frac{20}{181}, \frac{65}{362}, \frac{127}{362}, \frac{85}{181}, \frac{22}{181}, -\frac{39}{362}, -\frac{61}{181})$ $-\frac{3}{181}\sqrt{5478}e^1 \otimes e_9$	{12348, 1238, 12468, 1268, 1345, 135, 1456, 156, 2345679, 235679, 24579, 2579, 346789, 36789, 4789, 789}
95321:3	$0, 0, 0, 0, \frac{1}{181}\sqrt{7802}e^{12}, \frac{1}{181}\sqrt{17430}e^{13}, \frac{1}{181}\sqrt{2490}e^{25}, \frac{2}{181}\sqrt{249}e^{27}, \frac{2}{181}\sqrt{4565}e^{28}$	$(\frac{105}{181}, -\frac{83}{362}, -\frac{20}{181}, \frac{65}{362}, \frac{127}{362}, \frac{85}{181}, \frac{22}{181}, -\frac{39}{362}, -\frac{61}{181})$ $+\frac{3}{181}\sqrt{5478}e^1 \otimes e_9$	{12348, 1238, 12468, 1268, 1345, 135, 1456, 156, 2345679, 235679, 24579, 2579, 346789, 36789, 4789, 789}
95321:3	$0, 0, 0, 0, \frac{24}{4499}\sqrt{413}e^{12}, \frac{48}{4499}\sqrt{2590}e^{13}, \frac{24}{4499}\sqrt{1043}e^{25}, \frac{168}{4499}\sqrt{21}e^{27}, \frac{24}{4499}\sqrt{6629}e^{28}$	$(\frac{1212}{4499}, -\frac{504}{4499}, -\frac{980}{4499}, \frac{2248}{4499}, \frac{708}{4499}, \frac{232}{4499}, \frac{204}{4499}, -\frac{300}{4499}, -\frac{804}{4499})$ $-\frac{24}{4499}\sqrt{15757}e^1 \otimes e_9 + \frac{48}{4499}\sqrt{3059}e^4 \otimes e_6$	{12348, 1268, 1345, 156, 235679, 24579, 36789, 4789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:3	$0, 0, 0, 0, \frac{24}{4499}\sqrt{413e^{12}}, \frac{48}{4499}\sqrt{2590e^{13}}, \frac{24}{4499}\sqrt{1043e^{25}},$ $\frac{168}{4499}\sqrt{21e^{27}}, \frac{24}{4499}\sqrt{6629e^{28}}$	$(\frac{1212}{4499}, -\frac{504}{4499}, -\frac{980}{4499}, \frac{2248}{4499}, \frac{708}{4499}, \frac{232}{4499}, \frac{204}{4499}, -\frac{300}{4499}, -\frac{804}{4499})$ $+\frac{24}{4499}\sqrt{15757e^1} \otimes e_9 + \frac{48}{4499}\sqrt{3059e^4} \otimes e_6$	{12348, 1268, 1345, 156, 235679, 24579, 36789, 4789}
95321:3	$0, 0, 0, 0, \frac{8}{221}\sqrt{822e^{12}}, \frac{4}{221}\sqrt{685e^{13}}, \frac{2}{221}\sqrt{2877e^{25}}, \frac{4}{221}\sqrt{685e^{27}},$ $\frac{6}{221}\sqrt{411e^{28}}$	$(\frac{145}{221}, -\frac{2}{13}, -\frac{129}{221}, \frac{36}{221}, \frac{111}{221}, \frac{16}{221}, \frac{77}{221}, \frac{43}{221}, \frac{9}{221})$ $+\frac{2}{221}\sqrt{25345e^1} \otimes e_3$	{124789, 12789, 14579, 1579, 2345, 235, 348, 38}
95321:3	$0, 0, 0, 0, \frac{1}{643}\sqrt{5190e^{12}}, \frac{1}{643}\sqrt{55014e^{13}}, \frac{1}{643}\sqrt{31486e^{25}},$ $\frac{1}{643}\sqrt{55014e^{27}}, \frac{3}{643}\sqrt{7266e^{28}}$	$(-\frac{60}{643}, \frac{38}{643}, -\frac{75}{643}, \frac{265}{643}, -\frac{22}{643}, -\frac{135}{643}, \frac{16}{643}, \frac{54}{643}, \frac{92}{643})$ $+\frac{1}{643}\sqrt{62626e^4} \otimes e_9 + \frac{6}{643}\sqrt{3633e^2} \otimes e_6$	{123458, 146, 279, 356789}
95321:3	$0, 0, 0, 0, \frac{4}{2105}\sqrt{2515e^{12}}, \frac{1}{2105}\sqrt{719290e^{13}}, \frac{3}{2105}\sqrt{41246e^{25}},$ $\frac{32}{2105}\sqrt{503e^{27}}, \frac{1}{2105}\sqrt{391334e^{28}}$	$(-\frac{403}{2105}, \frac{266}{2105}, \frac{166}{2105}, -\frac{337}{2105}, -\frac{137}{2105}, -\frac{237}{2105}, \frac{129}{2105}, \frac{79}{2105}, \frac{661}{2105})$ $+\frac{12}{2105}\sqrt{8551e^2} \otimes e_6 + \frac{1}{2105}\sqrt{612654e^3} \otimes e_4$	{12358, 146, 2479, 356789}
95321:3	$0, 0, 0, 0, \frac{1}{559}\sqrt{69222e^{12}}, \frac{1}{559}\sqrt{5838e^{13}}, \frac{1}{559}\sqrt{4170e^{25}}, \frac{1}{559}\sqrt{5838e^{27}},$ $\frac{1}{559}\sqrt{64218e^{28}}$	$(\frac{236}{559}, -\frac{2}{13}, -\frac{181}{559}, \frac{309}{559}, \frac{150}{559}, \frac{55}{559}, \frac{64}{559}, -\frac{22}{559}, -\frac{108}{559})$ $+\frac{10}{559}\sqrt{2085e^1} \otimes e_3 + \frac{1}{559}\sqrt{205998e^4} \otimes e_9$	{129, 1589, 234578, 347}
95321:3	$0, 0, 0, 0, \frac{2}{1409}\sqrt{317342e^{12}}, \frac{1}{1409}\sqrt{1052570e^{13}}, \frac{2}{1409}\sqrt{89547e^{25}},$ $\frac{10}{1409}\sqrt{1571e^{27}}, \frac{4}{1409}\sqrt{17281e^{28}}$	$(\frac{670}{1409}, -\frac{126}{1409}, -\frac{81}{1409}, \frac{901}{1409}, \frac{544}{1409}, \frac{589}{1409}, \frac{418}{1409}, \frac{292}{1409}, \frac{166}{1409})$ $+\frac{1}{1409}\sqrt{3629010e^1} \otimes e_4$	{123789, 126789, 13579, 15679, 23456, 245, 3468, 48}
95321:3	$0, 0, 0, 0, \frac{4}{3505}\sqrt{182877e^{12}}, \frac{2}{3505}\sqrt{588838e^{13}}, \frac{6}{3505}\sqrt{24643e^{25}},$ $\frac{6}{3505}\sqrt{7782e^{27}}, \frac{2}{3505}\sqrt{143967e^{28}}$	$(\frac{963}{3505}, -\frac{168}{3505}, -\frac{1631}{3505}, \frac{1926}{3505}, \frac{159}{3505}, \frac{668}{3505}, \frac{627}{3505}, \frac{459}{3505}, \frac{291}{3505})$ $+\frac{2}{3505}\sqrt{2047963e^1} \otimes e_3 + \frac{4}{3505}\sqrt{494157e^4} \otimes e_6$	{126789, 15679, 2356, 368}
95321:3	$0, 0, 0, 0, \frac{4}{1421}\sqrt{40549e^{12}}, \frac{1}{1421}\sqrt{1886410e^{13}}, \frac{3}{1421}\sqrt{17630e^{25}},$ $\frac{4}{1421}\sqrt{33497e^{27}}, \frac{1}{1421}\sqrt{483062e^{28}}$	$(-\frac{79}{1421}, \frac{122}{1421}, \frac{886}{1421}, -\frac{877}{1421}, \frac{43}{1421}, \frac{807}{1421}, \frac{165}{1421}, \frac{41}{1421}, \frac{409}{1421})$ $+\frac{1}{1421}\sqrt{4051374e^3} \otimes e_4$	{12358, 124568, 13, 146, 23679, 2479, 356789, 45789}
95321:3	$0, 0, 0, 0, \frac{5}{1747}\sqrt{6262e^{12}}, \frac{20}{1747}\sqrt{2387e^{13}}, \frac{10}{1747}\sqrt{1209e^{25}},$ $\frac{70}{1747}\sqrt{31e^{27}}, \frac{5}{1747}\sqrt{26474e^{28}}$	$(\frac{323}{1747}, -\frac{153}{1747}, \frac{486}{1747}, -\frac{452}{1747}, \frac{170}{1747}, \frac{809}{1747}, \frac{17}{1747}, -\frac{136}{1747}, -\frac{289}{1747})$ $+\frac{15}{1747}\sqrt{6262e^3} \otimes e_9 + \frac{5}{1747}\sqrt{39990e^1} \otimes e_4$	{125679, 16789, 23468, 3456}
95321:3	$0, 0, 0, 0, \frac{22}{197}\sqrt{3e^{12}}, \frac{4}{197}\sqrt{330e^{13}}, \frac{8}{197}\sqrt{33e^{25}}, \frac{2}{197}\sqrt{1353e^{27}},$ $\frac{16}{197}\sqrt{33e^{28}}$	$(-\frac{5}{197}, \frac{2}{197}, \frac{69}{197}, -\frac{64}{197}, -\frac{3}{197}, \frac{64}{197}, -\frac{1}{197}, \frac{1}{197}, \frac{3}{197})$ $+\frac{2}{197}\sqrt{2805e^3} \otimes e_9 + \frac{44}{197}\sqrt{6e^2} \otimes e_4$	{12358, 134, 279, 45789}
95321:3	$0, 0, 0, 0, \frac{2}{517}\sqrt{2651e^{12}}, \frac{1}{517}\sqrt{79530e^{13}}, \frac{2}{517}\sqrt{15906e^{25}},$ $\frac{1}{517}\sqrt{79530e^{27}}, \frac{1}{47}\sqrt{482e^{28}}$	$(-\frac{93}{517}, \frac{7}{47}, -\frac{71}{517}, \frac{2}{11}, -\frac{16}{517}, -\frac{164}{517}, \frac{61}{517}, \frac{138}{517}, \frac{215}{517})$ $+\frac{3}{517}\sqrt{22654e^2} \otimes e_6$	{123479, 12379, 1456789, 156789, 2458, 258, 346, 36}
95321:3	$0, 0, 0, 0, \frac{1}{463}\sqrt{78522e^{12}}, \frac{1}{463}\sqrt{58038e^{13}}, \frac{1}{463}\sqrt{39830e^{25}},$ $\frac{1}{463}\sqrt{58038e^{27}}, \frac{3}{463}\sqrt{23898e^{28}}$	$(\frac{102}{463}, -\frac{52}{463}, \frac{33}{463}, \frac{1}{463}, \frac{50}{463}, \frac{135}{463}, -\frac{2}{463}, -\frac{54}{463}, -\frac{106}{463})$ $+\frac{1}{463}\sqrt{431302e^4} \otimes e_9$	{123579, 125679, 13789, 16789, 23468, 248, 3456, 45}
95321:3	$0, 0, 0, 0, \frac{4}{1421}\sqrt{40549e^{12}}, \frac{1}{1421}\sqrt{1886410e^{13}}, \frac{3}{1421}\sqrt{17630e^{25}},$ $\frac{4}{1421}\sqrt{33497e^{27}}, \frac{1}{1421}\sqrt{483062e^{28}}$	$(-\frac{79}{1421}, \frac{122}{1421}, -\frac{263}{1421}, \frac{1}{1421}, \frac{43}{1421}, -\frac{342}{1421}, \frac{165}{1421}, \frac{41}{1421}, \frac{409}{1421})$ $+\frac{1}{1421}\sqrt{4051374e^4} \otimes e_6$	{123458, 12568, 134, 16, 23679, 2479, 356789, 45789}
95321:3	$0, 0, 0, 0, \frac{2}{4045}\sqrt{63979e^{12}}, \frac{8}{4045}\sqrt{12878e^{13}}, \frac{12}{4045}\sqrt{1370e^{25}},$ $\frac{2}{4045}\sqrt{133849e^{27}}, \frac{4}{4045}\sqrt{47402e^{28}}$	$(-\frac{589}{4045}, \frac{42}{809}, \frac{105}{809}, \frac{448}{4045}, -\frac{379}{4045}, -\frac{64}{4045}, -\frac{169}{4045}, \frac{41}{4045}, \frac{251}{4045})$ $+\frac{24}{4045}\sqrt{1918e^2} \otimes e_6 + \frac{2}{4045}\sqrt{216597e^3} \otimes e_9$	{123458, 12358, 2479, 279}
95321:3	$0, 0, 0, 0, \frac{24}{4499}\sqrt{413e^{12}}, \frac{48}{4499}\sqrt{2590e^{13}}, \frac{24}{4499}\sqrt{1043e^{25}},$ $\frac{168}{4499}\sqrt{21e^{27}}, \frac{24}{4499}\sqrt{6629e^{28}}$	$(\frac{1212}{4499}, -\frac{504}{4499}, \frac{768}{4499}, -\frac{1248}{4499}, \frac{708}{4499}, \frac{180}{4499}, \frac{204}{4499}, -\frac{300}{4499}, -\frac{804}{4499})$ $-\frac{24}{4499}\sqrt{15757e^1} \otimes e_9 + \frac{48}{4499}\sqrt{3059e^3} \otimes e_4$	{1238, 12468, 135, 1456, 235679, 24579, 36789, 4789}
95321:3	$0, 0, 0, 0, \frac{24}{4499}\sqrt{413e^{12}}, \frac{48}{4499}\sqrt{2590e^{13}}, \frac{24}{4499}\sqrt{1043e^{25}},$ $\frac{168}{4499}\sqrt{21e^{27}}, \frac{24}{4499}\sqrt{6629e^{28}}$	$(\frac{1212}{4499}, -\frac{504}{4499}, \frac{768}{4499}, -\frac{1248}{4499}, \frac{708}{4499}, \frac{180}{4499}, \frac{204}{4499}, -\frac{300}{4499}, -\frac{804}{4499})$ $+\frac{24}{4499}\sqrt{15757e^1} \otimes e_9 + \frac{48}{4499}\sqrt{3059e^3} \otimes e_4$	{1238, 12468, 135, 1456, 235679, 24579, 36789, 4789}
95321:3	$0, 0, 0, 0, \frac{84}{241}\sqrt{2e^{12}}, \frac{14}{241}\sqrt{15e^{13}}, \frac{56}{241}\sqrt{3e^{25}}, \frac{28}{241}\sqrt{7e^{27}},$ $\frac{28}{241}\sqrt{3e^{28}}$	$(\frac{55}{241}, -\frac{4}{241}, -\frac{43}{241}, -\frac{102}{241}, \frac{51}{241}, \frac{12}{241}, \frac{47}{241}, \frac{43}{241}, \frac{39}{241})$ $+\frac{14}{241}\sqrt{129e^2} \otimes e_4 + \frac{14}{241}\sqrt{85e^1} \otimes e_3$	{1279, 145789, 2358, 34}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:3	$0, 0, 0, 0, \frac{110}{703}\sqrt{19}e^{12}, \frac{40}{703}\sqrt{209}e^{13}, \frac{60}{703}\sqrt{22}e^{25}, \frac{10}{703}\sqrt{1177}e^{27},$ $\frac{20}{703}\sqrt{902}e^{28}$	$(\frac{17}{703}, -\frac{42}{703}, \frac{21}{37}, \frac{112}{703}, -\frac{25}{703}, \frac{416}{703}, -\frac{67}{703}, -\frac{109}{703}, -\frac{151}{703})$ $+\frac{10}{703}\sqrt{6501}e^3 \otimes e_9$	{1245679, 125679, 146789, 16789, 23468, 2368, 3456, 356}
95321:4	$0, 0, 0, 0, \frac{680}{4203}\sqrt{21}e^{12}, \frac{16}{4203}\sqrt{7735}e^{34}, \frac{8}{4203}\sqrt{9401}e^{15},$ $\frac{8}{4203}\sqrt{19635}e^{17}, \frac{8}{4203}\sqrt{64617}e^{18} + \frac{16}{4203}\sqrt{36295}e^{36}$	$(-\frac{952}{4203}, \frac{976}{1401}, -\frac{700}{4203}, \frac{520}{4203}, \frac{1976}{4203}, -\frac{20}{467}, \frac{1024}{4203}, \frac{8}{467}, -\frac{880}{4203})$ $+\frac{56}{4203}\sqrt{8313}e^2 \otimes e_9$	{123678, 1278, 13459, 14569, 23567, 257, 3489, 4689}
95321:4	$0, 0, 0, 0, \frac{680}{4203}\sqrt{21}e^{12}, \frac{16}{4203}\sqrt{7735}e^{34}, \frac{8}{4203}\sqrt{9401}e^{15},$ $\frac{8}{4203}\sqrt{19635}e^{17}, \frac{8}{4203}\sqrt{64617}e^{18} + \frac{16}{4203}\sqrt{36295}e^{36}$	$(-\frac{952}{4203}, \frac{976}{1401}, -\frac{700}{4203}, \frac{520}{4203}, \frac{1976}{4203}, -\frac{20}{467}, \frac{1024}{4203}, \frac{8}{467}, -\frac{880}{4203})$ $-\frac{56}{4203}\sqrt{8313}e^2 \otimes e_9$	{123678, 1278, 13459, 14569, 23567, 257, 3489, 4689}
95321:4	$0, 0, 0, 0, \frac{76}{6507}\sqrt{1371}e^{12}, \frac{380}{6507}\sqrt{10}e^{34}, \frac{76}{6507}\sqrt{221}e^{15},$ $\frac{76}{2169}\sqrt{23}e^{17}, \frac{76}{6507}\sqrt{87}e^{18} + \frac{152}{6507}\sqrt{535}e^{36}$	$(-\frac{722}{6507}, \frac{874}{2169}, \frac{874}{6507}, -\frac{2014}{6507}, \frac{1900}{6507}, -\frac{380}{2169}, \frac{1178}{6507}, \frac{152}{2169}, -\frac{266}{6507})$ $+\frac{76}{6507}\sqrt{2514}e^3 \otimes e_4 + \frac{76}{6507}\sqrt{3243}e^2 \otimes e_9$	{123678, 14569, 23567, 4689}
95321:4	$0, 0, 0, 0, \frac{76}{6507}\sqrt{1371}e^{12}, \frac{380}{6507}\sqrt{10}e^{34}, \frac{76}{6507}\sqrt{221}e^{15},$ $\frac{76}{2169}\sqrt{23}e^{17}, \frac{76}{6507}\sqrt{87}e^{18} + \frac{152}{6507}\sqrt{535}e^{36}$	$(-\frac{722}{6507}, \frac{874}{2169}, \frac{874}{6507}, -\frac{2014}{6507}, \frac{1900}{6507}, -\frac{380}{2169}, \frac{1178}{6507}, \frac{152}{2169}, -\frac{266}{6507})$ $+\frac{76}{6507}\sqrt{2514}e^3 \otimes e_4 - \frac{76}{6507}\sqrt{3243}e^2 \otimes e_9$	{123678, 14569, 23567, 4689}
95321:4	$0, 0, 0, 0, \frac{1}{2061}\sqrt{1017462}e^{12}, \frac{4}{2061}\sqrt{43027}e^{34}, \frac{8}{2061}\sqrt{17717}e^{15},$ $\frac{1}{2061}\sqrt{349278}e^{17}, \frac{4}{2061}\sqrt{83523}e^{18} + \frac{5}{2061}\sqrt{156922}e^{36}$	$(\frac{178}{2061}, \frac{23}{229}, \frac{1150}{2061}, -\frac{1381}{2061}, \frac{385}{2061}, -\frac{77}{687}, \frac{563}{2061}, \frac{247}{687}, \frac{919}{2061})$ $+\frac{1}{2061}\sqrt{8367486}e^3 \otimes e_4$	{12367, 145689, 235678, 469}
95321:4	$0, 0, 0, 0, \frac{17}{559}\sqrt{122}e^{12}, \frac{68}{559}\sqrt{3}e^{34}, \frac{136}{559}\sqrt{3}e^{15}, \frac{17}{559}\sqrt{302}e^{17},$ $\frac{68}{559}\sqrt{13}e^{18} + \frac{51}{559}\sqrt{10}e^{36}$	$(\frac{102}{559}, -\frac{187}{559}, \frac{170}{559}, -\frac{119}{559}, -\frac{85}{559}, \frac{51}{559}, \frac{17}{559}, \frac{119}{559}, \frac{17}{43})$ $+\frac{136}{559}\sqrt{10}e^1 \otimes e_2 + \frac{17}{559}\sqrt{334}e^3 \otimes e_4$	{14679, 236}
95321:4	$0, 0, 0, 0, \frac{1}{171}\sqrt{8030}e^{12}, \frac{2}{513}\sqrt{5110}e^{34}, \frac{4}{513}\sqrt{5110}e^{15}, \frac{2}{513}\sqrt{37230}e^{17},$ $\frac{1}{513}\sqrt{129210}e^{18} + \frac{4}{513}\sqrt{22630}e^{36}$	$(\frac{119}{513}, -\frac{82}{171}, \frac{29}{171}, \frac{56}{513}, -\frac{127}{513}, \frac{143}{513}, -\frac{8}{513}, \frac{37}{171}, \frac{230}{513})$ $+\frac{1}{513}\sqrt{313170}e^1 \otimes e_2$	{13679, 179, 234, 246}
95321:5	$0, 0, 0, 0, \frac{4}{781}\sqrt{6710}e^{12}, \frac{32}{781}\sqrt{671}e^{13}, \frac{20}{781}\sqrt{366}e^{15}, \frac{8}{781}\sqrt{1830}e^{17},$ $\frac{8}{781}\sqrt{305}e^{18} + \frac{20}{781}\sqrt{366}e^{34}$	$(-\frac{35}{781}, \frac{172}{781}, \frac{504}{781}, -\frac{472}{781}, \frac{137}{781}, \frac{469}{781}, \frac{102}{781}, \frac{67}{781}, \frac{32}{781})$ $+\frac{16}{781}\sqrt{5063}e^3 \otimes e_4$	{13, 146, 3568, 458}
95321:5	$0, 0, 0, 0, \frac{12}{67}\sqrt{10}e^{12}, \frac{3}{67}\sqrt{110}e^{13}, \frac{3}{67}\sqrt{110}e^{15}, \frac{12}{67}\sqrt{15}e^{17},$ $\frac{3}{67}\sqrt{230}e^{18} + \frac{12}{67}\sqrt{5}e^{34}$	$(\frac{14}{67}, -\frac{31}{67}, \frac{7}{67}, \frac{18}{67}, -\frac{17}{67}, \frac{21}{67}, -\frac{3}{67}, \frac{11}{67}, \frac{25}{67})$ $+\frac{3}{67}\sqrt{570}e^1 \otimes e_2$	{13479, 1679, 236, 24}
95321:5	$0, 0, 0, 0, \frac{52}{3031}\sqrt{677}e^{12}, \frac{52}{3031}\sqrt{118}e^{13}, \frac{52}{3031}\sqrt{133}e^{15},$ $\frac{52}{3031}\sqrt{73}e^{17}, \frac{52}{3031}\sqrt{59}e^{18} + \frac{52}{3031}\sqrt{1030}e^{34}$	$(-\frac{338}{3031}, \frac{1222}{3031}, -\frac{572}{3031}, \frac{442}{3031}, \frac{884}{3031}, -\frac{130}{433}, \frac{78}{433}, \frac{208}{3031}, -\frac{130}{3031})$ $+\frac{104}{3031}\sqrt{283}e^4 \otimes e_6 + \frac{52}{3031}\sqrt{1559}e^2 \otimes e_9$	{13569, 1459, 23457, 2567}
95321:5	$0, 0, 0, 0, \frac{52}{3031}\sqrt{677}e^{12}, \frac{52}{3031}\sqrt{118}e^{13}, \frac{52}{3031}\sqrt{133}e^{15},$ $\frac{52}{3031}\sqrt{73}e^{17}, \frac{52}{3031}\sqrt{59}e^{18} + \frac{52}{3031}\sqrt{1030}e^{34}$	$(-\frac{338}{3031}, \frac{1222}{3031}, -\frac{572}{3031}, \frac{442}{3031}, \frac{884}{3031}, -\frac{130}{433}, \frac{78}{433}, \frac{208}{3031}, -\frac{130}{3031})$ $+\frac{104}{3031}\sqrt{283}e^4 \otimes e_6 - \frac{52}{3031}\sqrt{1559}e^2 \otimes e_9$	{13569, 1459, 23457, 2567}
95321:5	$0, 0, 0, 0, \frac{4}{127}\sqrt{161}e^{12}, \frac{1}{127}\sqrt{3710}e^{13}, \frac{1}{127}\sqrt{574}e^{15}, \frac{28}{127}\sqrt{3}e^{17},$ $\frac{1}{127}\sqrt{2758}e^{18} + \frac{16}{127}\sqrt{7}e^{34}$	$(\frac{14}{127}, -\frac{35}{127}, \frac{35}{127}, -\frac{14}{127}, -\frac{21}{127}, \frac{49}{127}, -\frac{7}{127}, \frac{7}{127}, \frac{21}{127})$ $+\frac{13}{127}\sqrt{42}e^1 \otimes e_2 + \frac{4}{127}\sqrt{266}e^3 \otimes e_4$	{236, 24}
95321:5	$0, 0, 0, 0, \frac{26}{49}e^{12}, \frac{26}{539}\sqrt{22}e^{13}, \frac{26}{539}\sqrt{13}e^{15}, \frac{13}{539}\sqrt{42}e^{17},$ $\frac{13}{539}\sqrt{202}e^{18} + \frac{26}{539}\sqrt{470}e^{34}$	$(-\frac{169}{1078}, \frac{260}{539}, \frac{130}{539}, -\frac{208}{539}, \frac{351}{1078}, \frac{13}{154}, \frac{13}{77}, \frac{13}{1078}, -\frac{78}{539})$ $-\frac{13}{539}\sqrt{1254}e^2 \otimes e_9 + \frac{26}{539}\sqrt{158}e^3 \otimes e_4$	{13569, 1459, 389, 4689}
95321:5	$0, 0, 0, 0, \frac{26}{49}e^{12}, \frac{26}{539}\sqrt{22}e^{13}, \frac{26}{539}\sqrt{13}e^{15}, \frac{13}{539}\sqrt{42}e^{17},$ $\frac{13}{539}\sqrt{202}e^{18} + \frac{26}{539}\sqrt{470}e^{34}$	$(-\frac{169}{1078}, \frac{260}{539}, \frac{130}{539}, -\frac{208}{539}, \frac{351}{1078}, \frac{13}{154}, \frac{13}{77}, \frac{13}{1078}, -\frac{78}{539})$ $+\frac{13}{539}\sqrt{1254}e^2 \otimes e_9 + \frac{26}{539}\sqrt{158}e^3 \otimes e_4$	{13569, 1459, 389, 4689}
95321:5	$0, 0, 0, 0, \frac{3}{403}\sqrt{12390}e^{12}, \frac{2}{403}\sqrt{28497}e^{13}, \frac{1}{403}\sqrt{2478}e^{15},$ $\frac{1}{403}\sqrt{58646}e^{17}, \frac{1}{403}\sqrt{56994}e^{18} + \frac{1}{403}\sqrt{2478}e^{34}$	$(-\frac{70}{403}, \frac{268}{403}, -\frac{75}{403}, \frac{63}{403}, \frac{198}{403}, -\frac{145}{403}, \frac{128}{403}, \frac{58}{403}, -\frac{12}{403})$ $+\frac{49}{403}\sqrt{118}e^2 \otimes e_6$	{123, 156789, 2458, 34679}
95321:5	$0, 0, 0, 0, \frac{3}{1249}\sqrt{8758}e^{12}, \frac{12}{1249}\sqrt{6946}e^{13}, \frac{12}{1249}\sqrt{151}e^{15},$ $\frac{9}{1249}\sqrt{2114}e^{17}, \frac{12}{1249}\sqrt{3473}e^{18} + \frac{3}{1249}\sqrt{107210}e^{34}$	$(\frac{50}{1249}, \frac{179}{1249}, -\frac{515}{1249}, \frac{894}{1249}, \frac{229}{1249}, -\frac{465}{1249}, \frac{279}{1249}, \frac{329}{1249}, \frac{379}{1249})$ $+\frac{3}{1249}\sqrt{314382}e^4 \otimes e_6$	{1345, 156, 235679, 24579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:5	$0, 0, 0, 0, \frac{6}{133}\sqrt{57}e^{12}, \frac{1}{133}\sqrt{6726}e^{13}, \frac{6}{133}\sqrt{38}e^{15}, \frac{1}{133}\sqrt{2622}e^{17},$ $\frac{3}{133}\sqrt{190}e^{18} + \frac{6}{133}\sqrt{38}e^{34}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{1}{133}\sqrt{7638}e^2 \otimes e_6 + \frac{1}{133}\sqrt{1653}e^3 \otimes e_4$	{123, 2458}
95321:6	$0, 0, 0, 0, \frac{36}{511}\sqrt{6}e^{12}, \frac{9}{511}\sqrt{442}e^{13}, \frac{9}{511}\sqrt{142}e^{25}, \frac{36}{511}\sqrt{17}e^{27},$ $\frac{9}{73}\sqrt{6}e^{28} + \frac{36}{511}\sqrt{13}e^{34}$	$(-\frac{117}{511}, \frac{54}{511}, \frac{90}{511}, \frac{9}{511}, -\frac{9}{73}, -\frac{27}{511}, -\frac{9}{511}, \frac{45}{511}, \frac{99}{511})$ $+ \frac{36}{511}\sqrt{38}e^2 \otimes e_6 + \frac{9}{511}\sqrt{302}e^3 \otimes e_4$	{12358, 146}
95321:6	$0, 0, 0, 0, \frac{16}{1389}\sqrt{3334}e^{12}, \frac{1}{1389}\sqrt{2050410}e^{13}, \frac{1}{1389}\sqrt{16670}e^{25},$ $\frac{4}{1389}\sqrt{35007}e^{27}, \frac{1}{1389}\sqrt{776822}e^{28} + \frac{20}{1389}\sqrt{1667}e^{34}$	$(-\frac{37}{463}, \frac{98}{1389}, \frac{974}{1389}, -\frac{231}{463}, -\frac{13}{1389}, \frac{863}{1389}, \frac{85}{1389}, \frac{61}{463}, \frac{281}{1389})$ $+ \frac{1}{1389}\sqrt{3804094}e^3 \otimes e_4$	{12358, 124568, 13, 146}
95321:6	$0, 0, 0, 0, \frac{2}{377}\sqrt{745}e^{12}, \frac{3}{377}\sqrt{5066}e^{13}, \frac{2}{377}\sqrt{6258}e^{25}, \frac{1}{377}\sqrt{38442}e^{27},$ $\frac{5}{377}\sqrt{1490}e^{28} + \frac{12}{377}\sqrt{149}e^{34}$	$(-\frac{81}{377}, \frac{49}{377}, -\frac{19}{377}, \frac{134}{377}, -\frac{32}{377}, -\frac{100}{377}, \frac{17}{377}, \frac{66}{377}, \frac{115}{377})$ $+ \frac{3}{377}\sqrt{10430}e^2 \otimes e_6$	{12358, 146, 279, 3456789}
95321:6	$0, 0, 0, 0, \frac{300}{4043}\sqrt{5}e^{12}, \frac{120}{4043}\sqrt{313}e^{13}, \frac{60}{4043}\sqrt{107}e^{25},$ $\frac{60}{4043}\sqrt{111}e^{27}, \frac{60}{4043}\sqrt{779}e^{28} + \frac{540}{4043}\sqrt{2}e^{34}$	$(\frac{1140}{4043}, -\frac{450}{4043}, \frac{570}{4043}, -\frac{1230}{4043}, \frac{690}{4043}, \frac{1710}{4043}, \frac{240}{4043}, -\frac{210}{4043}, -\frac{660}{4043})$ $+ \frac{60}{4043}\sqrt{1526}e^3 \otimes e_4 - \frac{60}{4043}\sqrt{2059}e^1 \otimes e_9$	{235679, 24579, 36789, 4789}
95321:6	$0, 0, 0, 0, \frac{300}{4043}\sqrt{5}e^{12}, \frac{120}{4043}\sqrt{313}e^{13}, \frac{60}{4043}\sqrt{107}e^{25},$ $\frac{60}{4043}\sqrt{111}e^{27}, \frac{60}{4043}\sqrt{779}e^{28} + \frac{540}{4043}\sqrt{2}e^{34}$	$(\frac{1140}{4043}, -\frac{450}{4043}, \frac{570}{4043}, -\frac{1230}{4043}, \frac{690}{4043}, \frac{1710}{4043}, \frac{240}{4043}, -\frac{210}{4043}, -\frac{660}{4043})$ $+ \frac{60}{4043}\sqrt{1526}e^3 \otimes e_4 + \frac{60}{4043}\sqrt{2059}e^1 \otimes e_9$	{235679, 24579, 36789, 4789}
95321:7	$0, 0, 0, 0, \frac{10}{101}\sqrt{110}e^{12}, \frac{5}{101}\sqrt{35}e^{13} + \frac{20}{101}\sqrt{5}e^{24}, \frac{5}{101}\sqrt{105}e^{15},$ $\frac{20}{101}\sqrt{5}e^{17}, \frac{5}{101}\sqrt{115}e^{18}$	$(-\frac{15}{101}, \frac{65}{101}, \frac{20}{101}, -\frac{60}{101}, \frac{50}{101}, \frac{5}{101}, \frac{35}{101}, \frac{20}{101}, \frac{5}{101})$ $+ \frac{65}{101}\sqrt{5}e^2 \otimes e_4$	{12789, 145, 23579, 348}
95321:7	$0, 0, 0, 0, \frac{12}{167}\sqrt{34}e^{12}, \frac{24}{167}\sqrt{17}e^{13} + \frac{24}{167}\sqrt{5}e^{24}, \frac{36}{167}\sqrt{7}e^{15},$ $\frac{12}{167}\sqrt{67}e^{17}, \frac{12}{167}\sqrt{46}e^{18}$	$(\frac{25}{167}, -\frac{28}{167}, -\frac{47}{167}, \frac{6}{167}, -\frac{3}{167}, -\frac{22}{167}, \frac{22}{167}, \frac{47}{167}, \frac{72}{167})$ $+ \frac{12}{167}\sqrt{141}e^1 \otimes e_3$	{12479, 158, 2345789, 3}
95321:7	$0, 0, 0, 0, \frac{1}{403}\sqrt{56994}e^{12}, \frac{2}{403}\sqrt{28497}e^{13} + \frac{1}{403}\sqrt{2478}e^{24},$ $\frac{1}{403}\sqrt{58646}e^{15}, \frac{1}{403}\sqrt{2478}e^{17}, \frac{3}{403}\sqrt{12390}e^{18}$	$(-\frac{70}{403}, \frac{132}{403}, \frac{265}{403}, \frac{63}{403}, \frac{2}{403}, \frac{15}{403}, -\frac{8}{403}, -\frac{6}{31}, -\frac{148}{403})$ $+ \frac{49}{403}\sqrt{118}e^3 \otimes e_9$	{123578, 169, 23467, 4589}
95321:7	$0, 0, 0, 0, \frac{3}{319}\sqrt{4255}e^{12}, \frac{3}{319}\sqrt{3979}e^{13} + \frac{6}{319}\sqrt{1909}e^{24}, \frac{6}{319}\sqrt{138}e^{15},$ $\frac{3}{319}\sqrt{3473}e^{17}, \frac{6}{319}\sqrt{1955}e^{18}$	$(-\frac{7}{319}, -\frac{26}{319}, \frac{134}{319}, \frac{153}{319}, -\frac{3}{29}, \frac{127}{319}, -\frac{40}{319}, -\frac{47}{319}, -\frac{54}{319})$ $+ \frac{3}{319}\sqrt{12489}e^4 \otimes e_9$	{1235679, 13468, 26789, 456}
95321:7	$0, 0, 0, 0, \frac{5}{109}\sqrt{66}e^{12}, \frac{15}{109}\sqrt{14}e^{13} + \frac{5}{109}\sqrt{42}e^{24}, \frac{20}{109}\sqrt{3}e^{15},$ $\frac{5}{109}\sqrt{42}e^{17}, \frac{10}{109}\sqrt{21}e^{18}$	$(-\frac{20}{109}, \frac{50}{109}, \frac{45}{109}, -\frac{25}{109}, \frac{30}{109}, \frac{25}{109}, \frac{10}{109}, -\frac{10}{109}, -\frac{30}{109})$ $+ \frac{5}{109}\sqrt{258}e^2 \otimes e_4 + \frac{5}{109}\sqrt{330}e^3 \otimes e_9$	{134578, 2589}
95321:7	$0, 0, 0, 0, \frac{1}{29}\sqrt{3}e^{12}, \frac{3}{29}\sqrt{7}e^{13} + \frac{1}{29}\sqrt{51}e^{24}, \frac{1}{29}\sqrt{33}e^{15},$ $\frac{1}{29}\sqrt{57}e^{17}, \frac{1}{29}\sqrt{69}e^{18}$	$(\frac{2}{29}, -\frac{5}{29}, -\frac{1}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{1}{29}, -\frac{1}{29}, \frac{1}{29}, \frac{3}{29})$ $- \frac{1}{29}\sqrt{69}e^4 \otimes e_9 + \frac{1}{29}\sqrt{87}e^1 \otimes e_3$	{12458, 179, 234, 35789}
95321:7	$0, 0, 0, 0, \frac{1}{29}\sqrt{3}e^{12}, \frac{3}{29}\sqrt{7}e^{13} + \frac{1}{29}\sqrt{51}e^{24}, \frac{1}{29}\sqrt{33}e^{15},$ $\frac{1}{29}\sqrt{57}e^{17}, \frac{1}{29}\sqrt{69}e^{18}$	$(\frac{2}{29}, -\frac{5}{29}, -\frac{1}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{1}{29}, -\frac{1}{29}, \frac{1}{29}, \frac{3}{29})$ $+ \frac{1}{29}\sqrt{69}e^4 \otimes e_9 + \frac{1}{29}\sqrt{87}e^1 \otimes e_3$	{12458, 179, 234, 35789}
95321:8	$0, 0, 0, 0, \frac{1}{133}\sqrt{2310}e^{12}, \frac{5}{133}\sqrt{154}e^{34}, \frac{1}{133}\sqrt{2310}e^{15}, \frac{1}{133}\sqrt{2310}e^{17},$ $\frac{1}{133}\sqrt{2310}e^{18} + \frac{1}{133}\sqrt{2310}e^{23}$	$(0, \frac{3}{19}, 0, -\frac{5}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{1}{133}\sqrt{70}e^3 \otimes e_4 + \frac{1}{133}\sqrt{7770}e^1 \otimes e_6$	{2356789, 36}
95321:8	$0, 0, 0, 0, \frac{22}{4141}\sqrt{455}e^{12}, \frac{44}{4141}\sqrt{386}e^{34}, \frac{22}{4141}\sqrt{562}e^{15},$ $\frac{44}{4141}\sqrt{203}e^{17}, \frac{22}{4141}\sqrt{1205}e^{18} + \frac{22}{4141}\sqrt{491}e^{23}$	$(-\frac{143}{4141}, \frac{517}{4141}, -\frac{572}{4141}, \frac{187}{4141}, \frac{374}{4141}, -\frac{385}{4141}, \frac{231}{4141}, \frac{88}{4141}, -\frac{55}{4141})$ $+ \frac{22}{4141}\sqrt{2410}e^1 \otimes e_6 + \frac{550}{4141}\sqrt{2}e^4 \otimes e_9$	{13458, 2356789}
95321:8	$0, 0, 0, 0, \frac{2}{701}\sqrt{72541}e^{12}, \frac{16}{701}\sqrt{903}e^{34}, \frac{4}{701}\sqrt{5719}e^{15}, \frac{4}{701}\sqrt{3010}e^{17},$ $\frac{2}{701}\sqrt{32207}e^{18} + \frac{10}{701}\sqrt{1505}e^{23}$	$(-\frac{49}{701}, \frac{335}{701}, -\frac{196}{701}, -\frac{71}{701}, \frac{286}{701}, -\frac{267}{701}, \frac{237}{701}, \frac{188}{701}, \frac{139}{701})$ $+ \frac{4}{701}\sqrt{43645}e^2 \otimes e_6$	{12789, 1456, 2579, 468}
95321:8	$0, 0, 0, 0, \frac{201}{9617}\sqrt{354}e^{12}, \frac{67}{9617}\sqrt{2134}e^{34}, \frac{201}{9617}\sqrt{178}e^{15},$ $\frac{536}{9617}\sqrt{6}e^{17}, \frac{402}{9617}\sqrt{77}e^{18} + \frac{34}{9617}\sqrt{618}e^{23}$	$(\frac{201}{9617}, \frac{1608}{9617}, \frac{804}{9617}, -\frac{3685}{9617}, \frac{1809}{9617}, -\frac{2881}{9617}, \frac{2010}{9617}, \frac{2211}{9617}, \frac{2412}{9617})$ $+ \frac{67}{9617}\sqrt{7270}e^3 \otimes e_4 + \frac{67}{9617}\sqrt{9930}e^2 \otimes e_6$	{1456, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:8	$0, 0, 0, 0, \frac{2}{701}\sqrt{32207}e^{12}, \frac{16}{701}\sqrt{903}e^{34}, \frac{4}{701}\sqrt{3010}e^{15}, \frac{4}{701}\sqrt{5719}e^{17},$ $\frac{2}{701}\sqrt{72541}e^{18} + \frac{10}{701}\sqrt{1505}e^{23}$	$(-\frac{49}{701}, \frac{103}{701}, -\frac{196}{701}, \frac{509}{701}, \frac{54}{701}, \frac{313}{701}, \frac{5}{701}, -\frac{44}{701}, -\frac{93}{701})$ $+ \frac{4}{701}\sqrt{43645}e^4 \otimes e_9$	{12579, 1468, 2789, 456}
95321:8	$0, 0, 0, 0, \frac{12}{667}\sqrt{618}e^{12}, \frac{4}{667}\sqrt{5459}e^{34}, \frac{4}{667}\sqrt{5871}e^{15}, \frac{4}{667}\sqrt{5871}e^{17},$ $\frac{12}{667}\sqrt{618}e^{18} + \frac{8}{667}\sqrt{7107}e^{23}$	$(\frac{111}{667}, -\frac{105}{667}, \frac{444}{667}, -\frac{380}{667}, \frac{6}{667}, \frac{64}{667}, \frac{117}{667}, \frac{228}{667}, \frac{339}{667})$ $+ \frac{20}{667}\sqrt{2266}e^3 \otimes e_4$	{124589, 147, 249, 4578}
95321:8	$0, 0, 0, 0, \frac{2}{737}\sqrt{17945}e^{12}, \frac{4}{737}\sqrt{7469}e^{34}, \frac{4}{737}\sqrt{4462}e^{15}, \frac{4}{737}\sqrt{4462}e^{17},$ $\frac{2}{737}\sqrt{17945}e^{18} + \frac{2}{737}\sqrt{18139}e^{23}$	$(-\frac{1}{737}, \frac{119}{737}, -\frac{4}{737}, -\frac{191}{737}, \frac{118}{737}, -\frac{195}{737}, \frac{117}{737}, \frac{116}{737}, \frac{115}{737})$ $+ \frac{4}{737}\sqrt{15035}e^1 \otimes e_6$	{123479, 13458, 2356789, 36}
95321:8	$0, 0, 0, 0, \frac{4}{163}\sqrt{105}e^{12}, \frac{2}{163}\sqrt{1246}e^{34}, \frac{4}{163}\sqrt{7}e^{15}, \frac{4}{163}\sqrt{7}e^{17},$ $\frac{4}{163}\sqrt{105}e^{18} + \frac{2}{163}\sqrt{826}e^{23}$	$(-\frac{14}{163}, \frac{46}{163}, -\frac{56}{163}, \frac{46}{163}, \frac{32}{163}, -\frac{10}{163}, \frac{18}{163}, \frac{4}{163}, -\frac{10}{163})$ $+ \frac{2}{163}\sqrt{2030}e^2 \otimes e_6 + \frac{2}{163}\sqrt{2030}e^4 \otimes e_9$	{1279, 14568, 25789, 46}
95321:8	$0, 0, 0, 0, \frac{4}{163}\sqrt{105}e^{12}, \frac{2}{163}\sqrt{1246}e^{34}, \frac{4}{163}\sqrt{7}e^{15}, \frac{4}{163}\sqrt{7}e^{17},$ $\frac{4}{163}\sqrt{105}e^{18} + \frac{2}{163}\sqrt{826}e^{23}$	$(-\frac{14}{163}, \frac{46}{163}, -\frac{56}{163}, \frac{46}{163}, \frac{32}{163}, -\frac{10}{163}, \frac{18}{163}, \frac{4}{163}, -\frac{10}{163})$ $+ \frac{2}{163}\sqrt{2030}e^2 \otimes e_6 - \frac{2}{163}\sqrt{2030}e^4 \otimes e_9$	{1279, 14568, 25789, 46}
95321:9	$0, 0, 0, 0, \frac{52}{3401}\sqrt{545}e^{12}, \frac{52}{3401}\sqrt{622}e^{13}, \frac{52}{3401}\sqrt{31}e^{15},$ $\frac{52}{3401}\sqrt{269}e^{17}, \frac{676}{3401}e^{18} + \frac{52}{3401}\sqrt{1190}e^{36}$	$(-\frac{338}{3401}, \frac{1274}{3401}, \frac{130}{3401}, -\frac{1222}{3401}, \frac{936}{3401}, -\frac{208}{3401}, \frac{598}{3401}, \frac{260}{3401}, -\frac{78}{3401})$ $- \frac{52}{3401}\sqrt{1459}e^2 \otimes e_9 + \frac{52}{3401}\sqrt{1582}e^3 \otimes e_4$	{135789, 1456789, 23568, 2458}
95321:9	$0, 0, 0, 0, \frac{52}{3401}\sqrt{545}e^{12}, \frac{52}{3401}\sqrt{622}e^{13}, \frac{52}{3401}\sqrt{31}e^{15},$ $\frac{52}{3401}\sqrt{269}e^{17}, \frac{676}{3401}e^{18} + \frac{52}{3401}\sqrt{1190}e^{36}$	$(-\frac{338}{3401}, \frac{1274}{3401}, \frac{130}{3401}, -\frac{1222}{3401}, \frac{936}{3401}, -\frac{208}{3401}, \frac{598}{3401}, \frac{260}{3401}, -\frac{78}{3401})$ $+ \frac{52}{3401}\sqrt{1459}e^2 \otimes e_9 + \frac{52}{3401}\sqrt{1582}e^3 \otimes e_4$	{135789, 1456789, 23568, 2458}
95321:9	$0, 0, 0, 0, \frac{13}{977}\sqrt{694}e^{12}, \frac{13}{977}\sqrt{182}e^{13}, \frac{52}{977}\sqrt{21}e^{15}, \frac{13}{977}\sqrt{1002}e^{17},$ $\frac{26}{977}\sqrt{326}e^{18} + \frac{26}{977}\sqrt{43}e^{36}$	$(\frac{91}{977}, -\frac{247}{977}, \frac{13}{977}, \frac{455}{977}, -\frac{156}{977}, \frac{104}{977}, -\frac{65}{977}, \frac{26}{977}, \frac{117}{977})$ $+ \frac{13}{977}\sqrt{1414}e^4 \otimes e_9 - \frac{78}{977}\sqrt{58}e^1 \otimes e_2$	{1379, 1679, 2346, 24}
95321:9	$0, 0, 0, 0, \frac{13}{977}\sqrt{694}e^{12}, \frac{13}{977}\sqrt{182}e^{13}, \frac{52}{977}\sqrt{21}e^{15}, \frac{13}{977}\sqrt{1002}e^{17},$ $\frac{26}{977}\sqrt{326}e^{18} + \frac{26}{977}\sqrt{43}e^{36}$	$(\frac{91}{977}, -\frac{247}{977}, \frac{13}{977}, \frac{455}{977}, -\frac{156}{977}, \frac{104}{977}, -\frac{65}{977}, \frac{26}{977}, \frac{117}{977})$ $+ \frac{13}{977}\sqrt{1414}e^4 \otimes e_9 + \frac{78}{977}\sqrt{58}e^1 \otimes e_2$	{1379, 1679, 2346, 24}
95321:9	$0, 0, 0, 0, \frac{10}{359}\sqrt{1317}e^{12}, \frac{1}{359}\sqrt{17121}e^{13}, \frac{1}{359}\sqrt{39071}e^{15},$ $\frac{2}{359}\sqrt{4829}e^{17}, \frac{3}{359}\sqrt{4829}e^{18} + \frac{2}{359}\sqrt{8341}e^{36}$	$(-\frac{39}{359}, \frac{209}{359}, \frac{46}{359}, -\frac{230}{359}, \frac{170}{359}, \frac{7}{359}, \frac{131}{359}, \frac{92}{359}, \frac{53}{359})$ $+ \frac{1}{359}\sqrt{258571}e^2 \otimes e_4$	{13456, 145, 23579, 25679}
95321:9	$0, 0, 0, 0, \frac{2}{2833}\sqrt{43993}e^{12}, \frac{82}{2833}\sqrt{899}e^{13}, \frac{2}{2833}\sqrt{72529}e^{15},$ $\frac{14}{2833}\sqrt{7134}e^{17}, \frac{2}{2833}\sqrt{787118}e^{18} + \frac{2}{2833}\sqrt{1385185}e^{36}$	$(\frac{135}{2833}, \frac{389}{2833}, \frac{397}{2833}, -\frac{1981}{2833}, \frac{524}{2833}, \frac{532}{2833}, \frac{659}{2833}, \frac{794}{2833}, \frac{929}{2833})$ $+ \frac{58}{2833}\sqrt{3403}e^3 \otimes e_4$	{135789, 1456789, 23568, 2458}
95321:9	$0, 0, 0, 0, \frac{1}{777}\sqrt{152302}e^{12}, \frac{2}{777}\sqrt{9554}e^{13}, \frac{2}{777}\sqrt{57043}e^{15},$ $\frac{3}{259}\sqrt{2810}e^{17}, \frac{2}{777}\sqrt{37654}e^{18} + \frac{1}{777}\sqrt{2810}e^{36}$	$(\frac{68}{777}, \frac{2}{259}, \frac{5}{37}, -\frac{494}{777}, \frac{2}{21}, \frac{173}{777}, \frac{142}{777}, \frac{10}{37}, \frac{278}{777})$ $+ \frac{1}{777}\sqrt{714302}e^1 \otimes e_4$	{12379, 12679, 346, 4}
95321:9	$0, 0, 0, 0, \frac{8}{993}\sqrt{8881}e^{12}, \frac{1328}{2979}e^{13}, \frac{8}{2979}\sqrt{10873}e^{15}, \frac{8}{2979}\sqrt{3071}e^{17},$ $\frac{8}{993}\sqrt{4233}e^{18} + \frac{16}{2979}\sqrt{17430}e^{36}$	$(-\frac{664}{2979}, \frac{224}{331}, \frac{4}{993}, \frac{520}{2979}, \frac{1352}{2979}, -\frac{652}{2979}, \frac{688}{2979}, \frac{8}{993}, -\frac{640}{2979})$ $- \frac{8}{2979}\sqrt{204097}e^2 \otimes e_9$	{1234678, 123678, 12478, 1278, 3489, 389, 4689, 689}
95321:9	$0, 0, 0, 0, \frac{8}{993}\sqrt{8881}e^{12}, \frac{1328}{2979}e^{13}, \frac{8}{2979}\sqrt{10873}e^{15}, \frac{8}{2979}\sqrt{3071}e^{17},$ $\frac{8}{993}\sqrt{4233}e^{18} + \frac{16}{2979}\sqrt{17430}e^{36}$	$(-\frac{664}{2979}, \frac{224}{331}, \frac{4}{993}, \frac{520}{2979}, \frac{1352}{2979}, -\frac{652}{2979}, \frac{688}{2979}, \frac{8}{993}, -\frac{640}{2979})$ $+ \frac{8}{2979}\sqrt{204097}e^2 \otimes e_9$	{1234678, 123678, 12478, 1278, 3489, 389, 4689, 689}
95321:9	$0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{1}{27}\sqrt{70}e^{13}, \frac{2}{27}\sqrt{10}e^{15}, \frac{5}{27}\sqrt{6}e^{17},$ $\frac{4}{27}\sqrt{30}e^{18} + \frac{2}{27}\sqrt{95}e^{36}$	$(-\frac{7}{81}, \frac{19}{81}, -\frac{1}{81}, 1, \frac{4}{27}, -\frac{8}{81}, \frac{5}{81}, -\frac{2}{81}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{1330}e^4 \otimes e_9$	{13468, 148, 23789, 26789}
95321:9	$0, 0, 0, 0, \frac{138}{2717}\sqrt{39}e^{12}, \frac{138}{2717}\sqrt{83}e^{13}, \frac{46}{2717}\sqrt{223}e^{15},$ $\frac{46}{2717}\sqrt{406}e^{17}, \frac{138}{2717}\sqrt{22}e^{18} + \frac{46}{2717}\sqrt{401}e^{36}$	$(\frac{391}{2717}, -\frac{667}{2717}, \frac{23}{247}, -\frac{805}{2717}, -\frac{276}{2717}, \frac{644}{2717}, \frac{115}{2717}, \frac{46}{247}, \frac{69}{209})$ $+ \frac{46}{2717}\sqrt{1103}e^3 \otimes e_4 - \frac{92}{2717}\sqrt{329}e^1 \otimes e_2$	{1379, 14679, 236, 24}
95321:9	$0, 0, 0, 0, \frac{138}{2717}\sqrt{39}e^{12}, \frac{138}{2717}\sqrt{83}e^{13}, \frac{46}{2717}\sqrt{223}e^{15},$ $\frac{46}{2717}\sqrt{406}e^{17}, \frac{138}{2717}\sqrt{22}e^{18} + \frac{46}{2717}\sqrt{401}e^{36}$	$(\frac{391}{2717}, -\frac{667}{2717}, \frac{23}{247}, -\frac{805}{2717}, -\frac{276}{2717}, \frac{644}{2717}, \frac{115}{2717}, \frac{46}{247}, \frac{69}{209})$ $+ \frac{46}{2717}\sqrt{1103}e^3 \otimes e_4 + \frac{92}{2717}\sqrt{329}e^1 \otimes e_2$	{1379, 14679, 236, 24}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:10	$0, 0, 0, 0, -\frac{1}{151}\sqrt{2641}e^{12}, \frac{1}{151}\sqrt{14873}e^{13}, \frac{5}{151}\sqrt{139}e^{25}, \frac{5}{151}\sqrt{139}e^{27},$ $\frac{1}{151}\sqrt{2641}e^{28} + \frac{1}{151}\sqrt{14873}e^{36}$	$(-\frac{16}{151}, \frac{22}{151}, \frac{44}{151}, -\frac{95}{151}, \frac{6}{151}, \frac{28}{151}, \frac{28}{151}, \frac{50}{151}, \frac{72}{151})$ $+ \frac{1}{151}\sqrt{34194}e^3 \otimes e_4$	{123589, 1245689, 139, 1469, 2367, 247, 35678, 4578, 123589, 1245689, 139, 1469, 2367, 247, 35678, 4578}
95321:10	$0, 0, 0, 0, \frac{1}{151}\sqrt{2641}e^{12}, \frac{1}{151}\sqrt{14873}e^{13}, \frac{5}{151}\sqrt{139}e^{25}, \frac{5}{151}\sqrt{139}e^{27},$ $\frac{1}{151}\sqrt{2641}e^{28} + \frac{1}{151}\sqrt{14873}e^{36}$	$(-\frac{16}{151}, \frac{22}{151}, \frac{44}{151}, -\frac{95}{151}, \frac{6}{151}, \frac{28}{151}, \frac{28}{151}, \frac{50}{151}, \frac{72}{151})$ $+ \frac{1}{151}\sqrt{34194}e^3 \otimes e_4$	{123589, 1245689, 139, 1469, 2367, 247, 35678, 4578, 123589, 1245689, 139, 1469, 2367, 247, 35678, 4578}
95321:10	$0, 0, 0, 0, -\frac{1}{295}\sqrt{57638}e^{12}, \frac{1}{295}\sqrt{44114}e^{13}, \frac{1}{295}\sqrt{18354}e^{25},$ $\frac{23}{295}\sqrt{14}e^{27}, \frac{1}{295}\sqrt{19642}e^{28} + \frac{1}{295}\sqrt{18354}e^{36}$	$(\frac{137}{295}, -\frac{21}{295}, -\frac{42}{295}, -\frac{37}{295}, \frac{116}{295}, \frac{19}{295}, \frac{19}{295}, \frac{74}{295}, \frac{53}{295})$ $+ \frac{8}{295}\sqrt{2415}e^1 \otimes e_4$	{123789, 126789, 13579, 15679, 23456, 245, 3468, 48, 123789, 126789, 13579, 15679, 23456, 245, 3468, 48}
95321:10	$0, 0, 0, 0, \frac{1}{295}\sqrt{57638}e^{12}, \frac{1}{295}\sqrt{44114}e^{13}, \frac{1}{295}\sqrt{18354}e^{25}, \frac{23}{295}\sqrt{14}e^{27},$ $\frac{1}{295}\sqrt{19642}e^{28} + \frac{1}{295}\sqrt{18354}e^{36}$	$(\frac{137}{295}, -\frac{21}{295}, -\frac{42}{295}, -\frac{37}{295}, \frac{116}{295}, \frac{19}{295}, \frac{19}{295}, \frac{74}{295}, \frac{53}{295})$ $+ \frac{8}{295}\sqrt{2415}e^1 \otimes e_4$	{123789, 126789, 13579, 15679, 23456, 245, 3468, 48, 123789, 126789, 13579, 15679, 23456, 245, 3468, 48}
95321:10	$0, 0, 0, 0, -\frac{1}{295}\sqrt{19642}e^{12}, \frac{1}{295}\sqrt{18354}e^{13}, \frac{23}{295}\sqrt{14}e^{25},$ $\frac{1}{295}\sqrt{18354}e^{27}, \frac{1}{295}\sqrt{57638}e^{28} + \frac{1}{295}\sqrt{44114}e^{36}$	$(\frac{57}{295}, -\frac{21}{295}, -\frac{42}{295}, 1, \frac{36}{295}, \frac{3}{59}, \frac{3}{59}, -\frac{6}{295}, -\frac{27}{295})$ $+ \frac{8}{295}\sqrt{2415}e^4 \otimes e_9$	{123579, 125679, 13789, 16789, 23468, 248, 3456, 45, 123579, 125679, 13789, 16789, 23468, 248, 3456, 45}
95321:10	$0, 0, 0, 0, \frac{1}{295}\sqrt{19642}e^{12}, \frac{1}{295}\sqrt{18354}e^{13}, \frac{23}{295}\sqrt{14}e^{25}, \frac{1}{295}\sqrt{18354}e^{27},$ $\frac{1}{295}\sqrt{57638}e^{28} + \frac{1}{295}\sqrt{44114}e^{36}$	$(\frac{57}{295}, -\frac{21}{295}, -\frac{42}{295}, 1, \frac{36}{295}, \frac{3}{59}, \frac{3}{59}, -\frac{6}{295}, -\frac{27}{295})$ $+ \frac{8}{295}\sqrt{2415}e^4 \otimes e_9$	{123579, 125679, 13789, 16789, 23468, 248, 3456, 45, 123579, 125679, 13789, 16789, 23468, 248, 3456, 45}
95321:12	$0, 0, 0, 0, \frac{2}{97}\sqrt{183}e^{12}, \frac{2}{97}\sqrt{2562}e^{13}, \frac{4}{97}\sqrt{122}e^{15}, \frac{4}{97}\sqrt{122}e^{17},$ $\frac{2}{97}\sqrt{183}e^{18} + \frac{2}{97}\sqrt{427}e^{23}$	$(-\frac{5}{97}, \frac{25}{97}, -\frac{20}{97}, 1, \frac{20}{97}, -\frac{25}{97}, \frac{15}{97}, \frac{10}{97}, \frac{5}{97})$ $+ \frac{2}{97}\sqrt{5002}e^4 \otimes e_6$	{12345789, 134, 23679, 3568}
95321:12	$0, 0, 0, 0, \frac{6}{59}\sqrt{51}e^{12}, \frac{24}{59}\sqrt{3}e^{13}, \frac{6}{59}\sqrt{6}e^{15}, \frac{12}{59}\sqrt{6}e^{17},$ $\frac{6}{59}\sqrt{39}e^{18} + \frac{6}{59}\sqrt{39}e^{23}$	$(-\frac{5}{59}, \frac{29}{59}, -\frac{20}{59}, \frac{9}{59}, \frac{24}{59}, -\frac{25}{59}, \frac{19}{59}, \frac{14}{59}, \frac{9}{59})$ $+ \frac{30}{59}\sqrt{6}e^2 \otimes e_6$	{1456, 156, 24579, 2579}
95321:12	$0, 0, 0, 0, \frac{98}{8109}\sqrt{391}e^{12}, \frac{1127}{8109}\sqrt{10}e^{13}, \frac{49}{8109}\sqrt{314}e^{15},$ $\frac{49}{8109}\sqrt{1898}e^{17}, \frac{98}{8109}\sqrt{797}e^{18} + \frac{98}{8109}\sqrt{1046}e^{23}$	$(-\frac{49}{2703}, \frac{98}{477}, -\frac{196}{2703}, -\frac{2989}{8109}, \frac{1519}{8109}, -\frac{245}{2703}, \frac{1372}{8109}, \frac{1225}{8109}, \frac{1078}{8109})$ $+ \frac{196}{2703}\sqrt{55}e^2 \otimes e_6 + \frac{49}{8109}\sqrt{7138}e^3 \otimes e_4$	{123, 3679}
95321:12	$0, 0, 0, 0, \frac{46}{2997}\sqrt{731}e^{12}, \frac{92}{2997}\sqrt{130}e^{13}, \frac{46}{2997}\sqrt{422}e^{15},$ $\frac{46}{2997}\sqrt{182}e^{17}, \frac{46}{2997}\sqrt{11}e^{18} + \frac{46}{2997}\sqrt{91}e^{23}$	$(-\frac{23}{999}, \frac{713}{2997}, -\frac{92}{999}, -\frac{1127}{2997}, \frac{644}{2997}, -\frac{115}{999}, \frac{575}{2997}, \frac{506}{2997}, \frac{437}{2997})$ $+ \frac{46}{2997}\sqrt{1462}e^1 \otimes e_4 + \frac{920}{2997}\sqrt{3}e^2 \otimes e_6$	{1568, 245789}
95321:12	$0, 0, 0, 0, \frac{2}{549}\sqrt{20651}e^{12}, \frac{4}{549}\sqrt{1930}e^{13}, \frac{2}{549}\sqrt{25862}e^{15},$ $\frac{2}{549}\sqrt{25862}e^{17}, \frac{2}{549}\sqrt{20651}e^{18} + \frac{2}{549}\sqrt{10229}e^{23}$	$(\frac{3}{61}, \frac{41}{549}, \frac{12}{61}, -\frac{359}{549}, \frac{68}{549}, \frac{15}{61}, \frac{95}{549}, \frac{2}{9}, \frac{149}{549})$ $+ \frac{2}{549}\sqrt{87622}e^1 \otimes e_4$	{12379, 1358, 23456789, 346}
95321:12	$0, 0, 0, 0, \frac{1}{63}\sqrt{938}e^{12}, \frac{2}{63}\sqrt{670}e^{13}, \frac{1}{63}\sqrt{134}e^{15}, \frac{1}{63}\sqrt{134}e^{17},$ $\frac{1}{63}\sqrt{938}e^{18} + \frac{1}{63}\sqrt{2546}e^{23}$	$(\frac{2}{21}, -\frac{2}{63}, \frac{8}{21}, -\frac{43}{63}, \frac{4}{21}, \frac{10}{63}, \frac{16}{63}, \frac{22}{63})$ $+ \frac{1}{63}\sqrt{7102}e^3 \otimes e_4$	{12456789, 146, 2479, 458}
95321:13	$0, 0, 0, 0, \frac{7}{67}\sqrt{31}e^{12}, \frac{21}{67}\sqrt{6}e^{13}, \frac{7}{67}e^{15}, \frac{7}{67}\sqrt{22}e^{17},$ $\frac{7}{67}\sqrt{38}e^{18} + \frac{7}{67}\sqrt{47}e^{24}$	$(-\frac{7}{134}, \frac{28}{67}, -\frac{35}{134}, -\frac{14}{67}, \frac{49}{134}, -\frac{21}{67}, \frac{21}{67}, \frac{35}{134}, \frac{14}{67})$ $+ \frac{7}{67}\sqrt{115}e^2 \otimes e_6$	{123789, 156, 2579, 368}
95321:13	$0, 0, 0, 0, \frac{7}{199}\sqrt{10}e^{12}, \frac{5}{199}\sqrt{238}e^{13}, \frac{7}{199}\sqrt{30}e^{15}, \frac{7}{199}\sqrt{30}e^{17},$ $\frac{7}{199}\sqrt{10}e^{18} + \frac{1}{199}\sqrt{4970}e^{24}$	$(-\frac{14}{199}, \frac{43}{199}, \frac{22}{199}, -\frac{56}{199}, \frac{29}{199}, \frac{8}{199}, \frac{15}{199}, \frac{1}{199}, -\frac{13}{199})$ $+ \frac{2}{199}\sqrt{1610}e^2 \otimes e_6 + \frac{1}{199}\sqrt{1610}e^3 \otimes e_9$	{279, 3568}
95321:13	$0, 0, 0, 0, \frac{17}{8477}\sqrt{4594}e^{12}, \frac{17}{8477}\sqrt{8246}e^{13}, \frac{17}{8477}\sqrt{2534}e^{15},$ $\frac{34}{8477}\sqrt{229}e^{17}, \frac{34}{8477}\sqrt{65}e^{18} + \frac{34}{8477}\sqrt{1774}e^{24}$	$(\frac{221}{8477}, -\frac{799}{8477}, \frac{374}{8477}, \frac{884}{8477}, -\frac{578}{8477}, \frac{85}{1211}, -\frac{51}{1211}, -\frac{136}{8477}, \frac{85}{8477})$ $+ \frac{17}{8477}\sqrt{8090}e^3 \otimes e_9 + \frac{34}{8477}\sqrt{1990}e^4 \otimes e_6$	{1234578, 4589}
95321:13	$0, 0, 0, 0, \frac{7}{37}\sqrt{6}e^{12}, \frac{4}{37}\sqrt{14}e^{13}, \frac{7}{37}\sqrt{6}e^{15}, \frac{6}{37}\sqrt{7}e^{17},$ $\frac{2}{37}\sqrt{42}e^{18} + \frac{1}{37}\sqrt{42}e^{24}$	$(\frac{3}{74}, \frac{3}{37}, -\frac{25}{74}, \frac{6}{37}, \frac{9}{74}, -\frac{11}{37}, \frac{6}{37}, \frac{15}{74}, \frac{9}{37})$ $+ \frac{10}{37}\sqrt{7}e^1 \otimes e_3 + \frac{1}{37}\sqrt{210}e^2 \otimes e_6$	{12479, 2345789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:13	$0, 0, 0, 0, \frac{2}{33}\sqrt{287}e^{12}, \frac{1}{33}\sqrt{205}e^{13}, \frac{1}{33}\sqrt{287}e^{15}, \frac{2}{33}\sqrt{41}e^{17},$ $\frac{1}{33}\sqrt{205}e^{18} + \frac{2}{33}\sqrt{41}e^{24}$	$(-\frac{5}{33}, \frac{7}{11}, \frac{8}{33}, -\frac{20}{33}, \frac{16}{33}, \frac{1}{11}, \frac{1}{3}, \frac{2}{11}, \frac{1}{33})$ $+ \frac{1}{33}\sqrt{2255}e^2 \otimes e_4$	{13456, 145, 348, 468}
95321:13	$0, 0, 0, 0, \frac{72}{547}\sqrt{14}e^{12}, \frac{8}{547}\sqrt{1526}e^{13}, \frac{8}{547}\sqrt{1407}e^{15}, \frac{8}{547}\sqrt{1407}e^{17},$ $\frac{72}{547}\sqrt{14}e^{18} + \frac{112}{547}\sqrt{3}e^{24}$	$(\frac{39}{547}, -\frac{6}{547}, -\frac{185}{547}, \frac{156}{547}, \frac{33}{547}, -\frac{146}{547}, \frac{72}{547}, \frac{111}{547}, \frac{150}{547})$ $+ \frac{40}{547}\sqrt{133}e^1 \otimes e_3$	{12479, 1458, 2345789, 34}
95321:13	$0, 0, 0, 0, \frac{13}{277}\sqrt{38}e^{12}, \frac{156}{277}e^{13}, \frac{26}{277}\sqrt{13}e^{15}, \frac{13}{277}\sqrt{14}e^{17},$ $\frac{26}{277}\sqrt{19}e^{18} + \frac{13}{277}\sqrt{122}e^{24}$	$(-\frac{26}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{39}{277}, \frac{104}{277}, \frac{13}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+ \frac{26}{277}\sqrt{85}e^3 \otimes e_9 + \frac{65}{277}\sqrt{6}e^2 \otimes e_4$	{1469, 4589}
95321:13	$0, 0, 0, 0, \frac{202}{527}\sqrt{2}e^{12}, \frac{2}{527}\sqrt{53126}e^{13}, \frac{4}{527}\sqrt{1515}e^{15}, \frac{4}{527}\sqrt{1515}e^{17},$ $\frac{202}{527}\sqrt{2}e^{18} + \frac{18}{527}\sqrt{606}e^{24}$	$(\frac{71}{527}, -\frac{70}{527}, -\frac{191}{527}, \frac{284}{527}, \frac{1}{527}, -\frac{120}{527}, \frac{72}{527}, \frac{143}{527}, \frac{214}{527})$ $+ \frac{2}{527}\sqrt{91910}e^4 \otimes e_6$	{1256789, 16, 23679, 3568}
95321:13	$0, 0, 0, 0, \frac{7}{67}\sqrt{38}e^{12}, \frac{21}{67}\sqrt{6}e^{13}, \frac{7}{67}\sqrt{22}e^{15}, \frac{7}{67}e^{17},$ $\frac{7}{67}\sqrt{31}e^{18} + \frac{7}{67}\sqrt{47}e^{24}$	$(-\frac{7}{134}, \frac{5}{67}, \frac{40}{67}, -\frac{14}{67}, \frac{3}{134}, \frac{73}{134}, -\frac{2}{67}, -\frac{11}{134}, -\frac{9}{67})$ $+ \frac{7}{67}\sqrt{115}e^3 \otimes e_9$	{125679, 138, 2789, 356}
95321:13	$0, 0, 0, 0, \frac{38}{1713}\sqrt{302}e^{12}, \frac{19}{1713}\sqrt{1099}e^{13}, \frac{19}{1713}\sqrt{977}e^{15}, \frac{532}{1713}e^{17},$ $\frac{19}{1713}\sqrt{629}e^{18} + \frac{304}{1713}\sqrt{2}e^{24}$	$(-\frac{19}{1713}, \frac{95}{571}, -\frac{380}{1713}, -\frac{76}{1713}, \frac{266}{1713}, -\frac{133}{571}, \frac{247}{1713}, \frac{76}{571}, \frac{209}{1713})$ $+ \frac{19}{1713}\sqrt{965}e^2 \otimes e_4 + \frac{76}{571}\sqrt{15}e^1 \otimes e_3$	{1458, 34}
95321:14	$0, 0, 0, 0, \frac{276}{2537}\sqrt{10}e^{12}, \frac{23}{2537}\sqrt{1777}e^{13}, \frac{253}{2537}\sqrt{2}e^{25},$ $\frac{23}{2537}\sqrt{634}e^{27}, \frac{299}{2537}\sqrt{7}e^{14} + \frac{138}{2537}\sqrt{33}e^{28}$	$(-\frac{529}{2537}, \frac{161}{2537}, \frac{644}{2537}, \frac{644}{2537}, -\frac{368}{2537}, \frac{115}{2537}, -\frac{207}{2537}, -\frac{46}{2537}, \frac{115}{2537})$ $- \frac{161}{2537}\sqrt{41}e^4 \otimes e_6 + \frac{23}{2537}\sqrt{2603}e^3 \otimes e_9$	{125679, 16789, 2368, 356}
95321:14	$0, 0, 0, 0, \frac{2}{3181}\sqrt{928519}e^{12}, \frac{2}{3181}\sqrt{1558645}e^{13}, \frac{16}{3181}\sqrt{5001}e^{25},$ $\frac{2}{3181}\sqrt{631793}e^{27}, \frac{2}{3181}\sqrt{1555311}e^{14} + \frac{4}{3181}\sqrt{1667}e^{28}$	$(-\frac{731}{3181}, \frac{562}{3181}, -\frac{355}{3181}, \frac{2248}{3181}, -\frac{169}{3181}, -\frac{1086}{3181}, \frac{393}{3181}, \frac{955}{3181}, \frac{1517}{3181})$ $+ \frac{102}{3181}\sqrt{1667}e^4 \otimes e_6$	{123458, 134, 2479, 45789}
95321:14	$0, 0, 0, 0, \frac{31}{1949}\sqrt{489}e^{12}, \frac{31}{1949}\sqrt{85}e^{13}, \frac{31}{1949}\sqrt{321}e^{25}, \frac{31}{1949}\sqrt{33}e^{27},$ $\frac{31}{1949}\sqrt{1299}e^{14} + \frac{31}{1949}\sqrt{573}e^{28}$	$(\frac{186}{1949}, \frac{93}{1949}, -\frac{775}{1949}, \frac{372}{1949}, \frac{279}{1949}, -\frac{589}{1949}, \frac{372}{1949}, \frac{465}{1949}, \frac{558}{1949})$ $- \frac{31}{1949}\sqrt{1653}e^4 \otimes e_6 + \frac{31}{1949}\sqrt{1855}e^1 \otimes e_3$	{126789, 15679, 2356, 368}
95321:14	$0, 0, 0, 0, \frac{2}{3069}\sqrt{1570595}e^{12}, \frac{2}{3069}\sqrt{1388545}e^{13}, \frac{2}{3069}\sqrt{329345}e^{25},$ $\frac{2}{3069}\sqrt{236665}e^{27}, \frac{2}{3069}\sqrt{657035}e^{14} + \frac{2}{3069}\sqrt{127435}e^{28}$	$(\frac{1678}{3069}, -\frac{136}{1023}, -\frac{29}{279}, -\frac{544}{1023}, \frac{1270}{3069}, \frac{151}{341}, \frac{862}{3069}, \frac{454}{3069}, \frac{46}{3069})$ $+ \frac{2}{3069}\sqrt{4218595}e^1 \otimes e_4$	{23456, 245, 3468, 48}
95321:14	$0, 0, 0, 0, \frac{1}{1673}\sqrt{153986}e^{12}, \frac{25}{1673}\sqrt{1294}e^{13}, \frac{1}{1673}\sqrt{508542}e^{25},$ $\frac{2}{1673}\sqrt{167573}e^{27}, \frac{1}{1673}\sqrt{415374}e^{14} + \frac{2}{1673}\sqrt{159809}e^{28}$	$(-\frac{148}{1673}, \frac{149}{1673}, -\frac{50}{239}, \frac{596}{1673}, \frac{1}{1673}, -\frac{498}{1673}, \frac{150}{1673}, \frac{299}{1673}, \frac{64}{239})$ $+ \frac{2}{1673}\sqrt{452253}e^2 \otimes e_6$	{123479, 1456789, 2458, 346}
95321:14	$0, 0, 0, 0, \frac{22}{3853}\sqrt{391}e^{12}, \frac{44}{3853}\sqrt{370}e^{13}, \frac{44}{3853}\sqrt{87}e^{25},$ $\frac{22}{3853}\sqrt{933}e^{27}, \frac{308}{3853}e^{14} + \frac{44}{3853}\sqrt{341}e^{28}$	$(-\frac{473}{3853}, \frac{154}{3853}, \frac{385}{3853}, \frac{616}{3853}, -\frac{319}{3853}, -\frac{88}{3853}, -\frac{165}{3853}, -\frac{11}{3853}, \frac{143}{3853})$ $+ \frac{374}{3853}\sqrt{5}e^3 \otimes e_9 + \frac{44}{3853}\sqrt{497}e^2 \otimes e_6$	{12358, 279}
95321:14	$0, 0, 0, 0, \frac{31}{1949}\sqrt{489}e^{12}, \frac{31}{1949}\sqrt{85}e^{13}, \frac{31}{1949}\sqrt{321}e^{25}, \frac{31}{1949}\sqrt{33}e^{27},$ $\frac{31}{1949}\sqrt{1299}e^{14} + \frac{31}{1949}\sqrt{573}e^{28}$	$(\frac{186}{1949}, \frac{93}{1949}, -\frac{775}{1949}, \frac{372}{1949}, \frac{279}{1949}, -\frac{589}{1949}, \frac{372}{1949}, \frac{465}{1949}, \frac{558}{1949})$ $+ \frac{31}{1949}\sqrt{1653}e^4 \otimes e_6 + \frac{31}{1949}\sqrt{1855}e^1 \otimes e_3$	{126789, 15679, 2356, 368}
95321:14	$0, 0, 0, 0, \frac{684}{2173}e^{12}, \frac{76}{2173}\sqrt{130}e^{13}, \frac{38}{2173}\sqrt{453}e^{25}, \frac{228}{2173}\sqrt{13}e^{27},$ $\frac{76}{2173}\sqrt{39}e^{14} + \frac{114}{2173}\sqrt{41}e^{28}$	$(\frac{57}{2173}, \frac{114}{2173}, -\frac{665}{2173}, \frac{456}{2173}, \frac{171}{2173}, -\frac{608}{2173}, \frac{285}{2173}, \frac{399}{2173}, \frac{513}{2173})$ $+ \frac{38}{2173}\sqrt{445}e^1 \otimes e_3 + \frac{76}{2173}\sqrt{357}e^2 \otimes e_6$	{1456789, 346}
95321:14	$0, 0, 0, 0, \frac{11}{1377}\sqrt{1030}e^{12}, \frac{44}{1377}\sqrt{295}e^{13}, \frac{22}{1377}\sqrt{145}e^{25},$ $\frac{22}{1377}\sqrt{215}e^{27}, \frac{88}{1377}\sqrt{10}e^{14} + \frac{11}{1377}\sqrt{3290}e^{28}$	$(\frac{209}{1377}, -\frac{11}{153}, \frac{418}{1377}, -\frac{44}{153}, \frac{110}{1377}, \frac{209}{459}, \frac{11}{1377}, -\frac{88}{1377}, -\frac{11}{81})$ $+ \frac{11}{1377}\sqrt{4870}e^1 \otimes e_4 + \frac{88}{1377}\sqrt{6}e^3 \otimes e_9$	{125679, 16789}
95321:14	$0, 0, 0, 0, \frac{276}{2537}\sqrt{10}e^{12}, \frac{23}{2537}\sqrt{1777}e^{13}, \frac{253}{2537}\sqrt{2}e^{25},$ $\frac{23}{2537}\sqrt{634}e^{27}, \frac{299}{2537}\sqrt{7}e^{14} + \frac{138}{2537}\sqrt{33}e^{28}$	$(-\frac{529}{2537}, \frac{161}{2537}, \frac{644}{2537}, \frac{644}{2537}, -\frac{368}{2537}, \frac{115}{2537}, -\frac{207}{2537}, -\frac{46}{2537}, \frac{115}{2537})$ $+ \frac{161}{2537}\sqrt{41}e^4 \otimes e_6 + \frac{23}{2537}\sqrt{2603}e^3 \otimes e_9$	{125679, 16789, 2368, 356}
95321:14	$0, 0, 0, 0, \frac{48}{2953}\sqrt{2858}e^{12}, \frac{4}{2953}\sqrt{208634}e^{13}, \frac{2}{2953}\sqrt{544449}e^{25},$ $\frac{8}{2953}\sqrt{21435}e^{27}, \frac{4}{2953}\sqrt{368682}e^{14} + \frac{2}{2953}\sqrt{112891}e^{28}$	$(\frac{1353}{2953}, -\frac{150}{2953}, -\frac{1505}{2953}, -\frac{600}{2953}, \frac{1203}{2953}, -\frac{152}{2953}, \frac{1053}{2953}, \frac{903}{2953}, \frac{753}{2953})$ $+ \frac{2}{2953}\sqrt{3602509}e^1 \otimes e_3$	{12789, 1579, 235, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:14	$0, 0, 0, 0, \frac{1782}{8797}e^{12}, \frac{33}{8797}\sqrt{6034}e^{13}, \frac{264}{8797}\sqrt{46}e^{25}, \frac{231}{8797}\sqrt{62}e^{27},$ $\frac{132}{8797}\sqrt{214}e^{14} + \frac{33}{8797}\sqrt{3198}e^{28}$	$(\frac{957}{8797}, -\frac{33}{8797}, -\frac{2079}{8797}, -\frac{132}{8797}, \frac{924}{8797}, -\frac{1122}{8797}, \frac{891}{8797}, \frac{858}{8797}, \frac{825}{8797})$ $+ \frac{33}{8797}\sqrt{10154}e^2 \otimes e_6 + \frac{66}{8797}\sqrt{1391}e^1 \otimes e_4$	{2458, 346}
95321:14	$0, 0, 0, 0, \frac{30}{3161}\sqrt{5115}e^{12}, \frac{60}{3161}\sqrt{1510}e^{13}, \frac{60}{3161}\sqrt{330}e^{25},$ $\frac{30}{3161}\sqrt{2545}e^{27}, \frac{600}{3161}\sqrt{7}e^{14} + \frac{1080}{3161}\sqrt{5}e^{28}$	$(-\frac{241}{3161}, -\frac{14}{3161}, \frac{1953}{3161}, -\frac{56}{3161}, -\frac{255}{3161}, \frac{1712}{3161}, -\frac{269}{3161}, -\frac{283}{3161}, -\frac{297}{3161})$ $+ \frac{30}{3161}\sqrt{13285}e^3 \otimes e_9$	{125679, 16789, 2368, 356}
95321:16	$0, 0, 0, 0, \frac{128}{4035}\sqrt{447}e^{12}, \frac{64}{4035}\sqrt{1345}e^{34}, \frac{64}{4035}\sqrt{42}e^{15},$ $\frac{64}{4035}\sqrt{393}e^{17}, \frac{128}{1345}\sqrt{26}e^{18} + \frac{64}{4035}\sqrt{1671}e^{25}$	$(\frac{64}{1345}, \frac{192}{1345}, -\frac{736}{4035}, -\frac{736}{4035}, \frac{256}{1345}, -\frac{1472}{4035}, \frac{64}{269}, \frac{384}{1345}, \frac{448}{1345})$ $+ \frac{64}{4035}\sqrt{3426}e^2 \otimes e_6$	{1356789, 23458, 258}
95321:16	$0, 0, 0, 0, \frac{28}{1621}\sqrt{34}e^{12}, \frac{28}{4863}\sqrt{1621}e^{34}, \frac{28}{4863}\sqrt{570}e^{15},$ $\frac{28}{1621}\sqrt{105}e^{17}, \frac{28}{1621}\sqrt{142}e^{18} + \frac{28}{1621}\sqrt{17}e^{25}$	$(\frac{14}{1621}, \frac{42}{1621}, \frac{686}{4863}, -\frac{1036}{4863}, \frac{56}{1621}, -\frac{350}{4863}, \frac{70}{1621}, \frac{84}{1621}, \frac{98}{1621})$ $+ \frac{28}{4863}\sqrt{1722}e^3 \otimes e_9 + \frac{56}{1621}\sqrt{71}e^1 \otimes e_6$	{1279, 36}
95321:16	$0, 0, 0, 0, \frac{2}{983}\sqrt{32718}e^{12}, \frac{4}{983}\sqrt{13243}e^{34}, \frac{6}{983}\sqrt{3895}e^{15}, \frac{6}{983}\sqrt{4674}e^{17},$ $\frac{4}{983}\sqrt{4674}e^{18} + \frac{6}{983}\sqrt{3895}e^{25}$	$(\frac{39}{983}, \frac{117}{983}, \frac{915}{983}, -\frac{643}{983}, \frac{156}{983}, \frac{272}{983}, \frac{195}{983}, \frac{234}{983}, \frac{273}{983})$ $+ \frac{1558}{983}e^3 \otimes e_4$	{123679, 124679, 36, 46}
95321:16	$0, 0, 0, 0, \frac{112}{4323}\sqrt{183}e^{12}, \frac{56}{4323}\sqrt{1441}e^{34}, \frac{672}{1441}e^{15}, \frac{56}{1441}\sqrt{133}e^{17},$ $\frac{56}{4323}\sqrt{930}e^{18} + \frac{56}{1441}\sqrt{55}e^{25}$	$(\frac{56}{1441}, \frac{168}{1441}, -\frac{700}{4323}, -\frac{700}{4323}, \frac{224}{1441}, \frac{1400}{4323}, \frac{280}{1441}, \frac{336}{1441}, \frac{392}{1441})$ $+ \frac{56}{1441}\sqrt{398}e^1 \otimes e_6$	{13458, 158, 2356789}
95321:16	$0, 0, 0, 0, \frac{112}{5107}\sqrt{183}e^{12}, \frac{56}{5107}\sqrt{1441}e^{34}, \frac{2016}{5107}e^{15}, \frac{168}{5107}\sqrt{133}e^{17},$ $\frac{56}{5107}\sqrt{930}e^{18} + \frac{168}{5107}\sqrt{55}e^{25}$	$(\frac{168}{5107}, \frac{504}{5107}, \frac{84}{5107}, -\frac{1484}{5107}, \frac{672}{5107}, -\frac{1400}{5107}, \frac{840}{5107}, \frac{1008}{5107}, \frac{1176}{5107})$ $+ \frac{1568}{5107}e^3 \otimes e_4 + \frac{168}{5107}\sqrt{398}e^1 \otimes e_6$	{2356789, 2456789}
95321:16	$0, 0, 0, 0, \frac{64}{5169}\sqrt{273}e^{12}, \frac{32}{5169}\sqrt{1723}e^{34}, \frac{32}{5169}\sqrt{462}e^{15},$ $\frac{32}{5169}\sqrt{195}e^{17}, \frac{64}{5169}\sqrt{6}e^{18} + \frac{32}{5169}\sqrt{1869}e^{25}$	$(\frac{16}{1723}, \frac{48}{1723}, \frac{848}{5169}, -\frac{1216}{5169}, \frac{64}{1723}, -\frac{368}{5169}, \frac{80}{1723}, \frac{96}{1723}, \frac{112}{1723})$ $+ \frac{128}{5169}\sqrt{129}e^3 \otimes e_9 + \frac{32}{5169}\sqrt{2598}e^2 \otimes e_6$	{129, 367}
95321:16	$0, 0, 0, 0, \frac{128}{5059}\sqrt{447}e^{12}, \frac{64}{5059}\sqrt{1345}e^{34}, \frac{64}{5059}\sqrt{42}e^{15},$ $\frac{64}{5059}\sqrt{393}e^{17}, \frac{384}{5059}\sqrt{26}e^{18} + \frac{64}{5059}\sqrt{1671}e^{25}$	$(\frac{192}{5059}, \frac{576}{5059}, \frac{288}{5059}, -\frac{1760}{5059}, \frac{768}{5059}, -\frac{1472}{5059}, \frac{960}{5059}, \frac{1152}{5059}, \frac{1344}{5059})$ $+ \frac{2048}{5059}e^3 \otimes e_4 + \frac{64}{5059}\sqrt{3426}e^2 \otimes e_6$	{1356789, 1456789}
95321:16	$0, 0, 0, 0, \frac{4}{1361}\sqrt{12818}e^{12}, \frac{4}{4083}\sqrt{513097}e^{34}, \frac{4}{4083}\sqrt{214890}e^{15},$ $\frac{4}{1361}\sqrt{13949}e^{17}, \frac{4}{1361}\sqrt{53534}e^{18} + \frac{20}{1361}\sqrt{1885}e^{25}$	$(-\frac{14}{1361}, -\frac{42}{1361}, \frac{2}{3}, -\frac{668}{4083}, -\frac{56}{1361}, \frac{2054}{4083}, -\frac{70}{1361}, -\frac{84}{1361}, -\frac{98}{1361})$ $+ \frac{4}{4083}\sqrt{1278030}e^3 \otimes e_9$	{1348, 1368, 246789, 2789}
95321:17	$0, 0, 0, 0, \frac{2}{1123}\sqrt{155951}e^{12}, \frac{8}{1123}\sqrt{5630}e^{13}, \frac{4}{1123}\sqrt{7882}e^{25},$ $\frac{8}{1123}\sqrt{5630}e^{27}, \frac{14}{1123}\sqrt{3941}e^{16} + \frac{2}{1123}\sqrt{208873}e^{28}$	$(-\frac{23}{1123}, \frac{5}{1123}, \frac{43}{1123}, 1, -\frac{18}{1123}, \frac{20}{1123}, -\frac{13}{1123}, -\frac{8}{1123}, -\frac{3}{1123})$ $+ \frac{4}{1123}\sqrt{129490}e^4 \otimes e_9$	{123579, 13789, 248, 45}
95321:17	$0, 0, 0, 0, \frac{1}{36}\sqrt{385}e^{12}, \frac{1}{216}\sqrt{770}e^{13}, \frac{1}{216}\sqrt{17710}e^{25}, \frac{1}{108}\sqrt{4389}e^{27},$ $\frac{1}{108}\sqrt{1309}e^{16} + \frac{1}{216}\sqrt{13398}e^{28}$	$(\frac{1}{18}, \frac{13}{216}, \frac{5}{27}, -\frac{47}{72}, \frac{25}{216}, \frac{13}{108}, \frac{19}{72}, \frac{17}{27}, \frac{8}{27})$ $+ \frac{7}{216}\sqrt{1122}e^2 \otimes e_4$	{123679, 13456789, 2568, 46}
95321:17	$0, 0, 0, 0, \frac{2}{3417}\sqrt{937473}e^{12}, \frac{8}{3417}\sqrt{85898}e^{13}, \frac{8}{3417}\sqrt{34063}e^{25},$ $\frac{4}{3417}\sqrt{2962}e^{27}, \frac{2}{3417}\sqrt{1618733}e^{16} + \frac{2}{1139}\sqrt{81455}e^{28}$	$(\frac{763}{3417}, \frac{37}{1139}, -\frac{319}{3417}, -\frac{733}{1139}, \frac{874}{3417}, \frac{148}{1139}, \frac{985}{3417}, \frac{1096}{3417}, \frac{71}{201})$ $+ \frac{4}{1139}\sqrt{115518}e^1 \otimes e_4$	{123789, 13579, 245, 48}
95321:17	$0, 0, 0, 0, \frac{2}{67}\sqrt{805}e^{12}, \frac{4}{67}\sqrt{35}e^{13}, \frac{4}{67}\sqrt{70}e^{25}, \frac{4}{67}\sqrt{35}e^{27},$ $\frac{2}{67}\sqrt{665}e^{16} + \frac{2}{67}\sqrt{455}e^{28}$	$(\frac{29}{67}, -\frac{3}{67}, -\frac{41}{67}, \frac{11}{67}, \frac{26}{67}, -\frac{12}{67}, \frac{23}{67}, \frac{20}{67}, \frac{17}{67})$ $- \frac{28}{67}\sqrt{10}e^1 \otimes e_3$	{124789, 12789, 14579, 1579, 2345, 235, 348, 38}
95321:17	$0, 0, 0, 0, \frac{2}{67}\sqrt{805}e^{12}, \frac{4}{67}\sqrt{35}e^{13}, \frac{4}{67}\sqrt{70}e^{25}, \frac{4}{67}\sqrt{35}e^{27},$ $\frac{2}{67}\sqrt{665}e^{16} + \frac{2}{67}\sqrt{455}e^{28}$	$(\frac{29}{67}, -\frac{3}{67}, -\frac{41}{67}, \frac{11}{67}, \frac{26}{67}, -\frac{12}{67}, \frac{23}{67}, \frac{20}{67}, \frac{17}{67})$ $+ \frac{28}{67}\sqrt{10}e^1 \otimes e_3$	{124789, 12789, 14579, 1579, 2345, 235, 348, 38}
95321:17	$0, 0, 0, 0, \frac{2}{3393}\sqrt{1111053}e^{12}, \frac{2}{3393}\sqrt{2710390}e^{13}, \frac{4}{3393}\sqrt{72415}e^{25},$ $\frac{2}{3393}\sqrt{831738}e^{27}, \frac{2}{3393}\sqrt{660011}e^{16} + \frac{2}{3393}\sqrt{515181}e^{28}$	$(-\frac{47}{377}, \frac{415}{3393}, \frac{2083}{3393}, -\frac{685}{1131}, -\frac{8}{3393}, \frac{1660}{3393}, \frac{407}{3393}, \frac{274}{1131}, \frac{1237}{3393})$ $+ \frac{4}{3393}\sqrt{1408989}e^3 \otimes e_4$	{124568, 146, 23679, 356789}
95321:17	$0, 0, 0, 0, \frac{2}{35}\sqrt{70}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{2}{35}e^{25}, \frac{4}{35}\sqrt{7}e^{27},$ $\frac{2}{35}\sqrt{14}e^{16} + \frac{2}{35}\sqrt{7}e^{28}$	$(\frac{1}{5}, 0, -\frac{1}{5}, -\frac{2}{5}, \frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $- \frac{2}{35}\sqrt{91}e^1 \otimes e_3 + \frac{6}{35}\sqrt{14}e^2 \otimes e_4$	{1279, 145789, 2358, 34}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:17	$0, 0, 0, 0, \frac{2}{35}\sqrt{70}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{2}{5}e^{25}, \frac{4}{35}\sqrt{7}e^{27},$ $\frac{2}{35}\sqrt{14}e^{16} + \frac{2}{35}\sqrt{7}e^{28}$	$(\frac{1}{5}, 0, -\frac{1}{5}, -\frac{2}{5}, \frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{91}e^1 \otimes e_3 + \frac{6}{35}\sqrt{14}e^2 \otimes e_4$	{1279, 145789, 2358, 34}
95321:22	$0, 0, 0, 0, \frac{70}{1297}\sqrt{254}e^{12}, \frac{35}{1297}\sqrt{299}e^{13} + \frac{420}{1297}\sqrt{3}e^{24},$ $\frac{35}{1297}\sqrt{417}e^{15}, \frac{140}{1297}\sqrt{7}e^{17}, \frac{35}{1297}\sqrt{571}e^{18} + \frac{280}{1297}\sqrt{15}e^{23}$	$(-\frac{35}{1297}, \frac{525}{1297}, -\frac{140}{1297}, -\frac{700}{1297}, \frac{490}{1297}, -\frac{175}{1297}, \frac{455}{1297}, \frac{420}{1297}, \frac{385}{1297})$ $+ \frac{35}{1297}\sqrt{2213}e^2 \otimes e_4$	{12789, 145}
95321:23	$0, 0, 0, 0, \frac{49}{2703}\sqrt{238}e^{12}, \frac{49}{8109}\sqrt{7382}e^{13}, \frac{49}{8109}\sqrt{3990}e^{15},$ $\frac{196}{8109}\sqrt{85}e^{17}, \frac{98}{8109}\sqrt{391}e^{18} + \frac{98}{8109}\sqrt{1046}e^{25}$	$(-\frac{49}{2703}, -\frac{49}{8109}, \frac{1372}{8109}, \frac{3626}{8109}, -\frac{196}{2703}, \frac{1225}{8109}, -\frac{245}{2703}, -\frac{98}{901}, -\frac{343}{2703})$ $+ \frac{49}{8109}\sqrt{8966}e^3 \otimes e_9 + \frac{98}{8109}\sqrt{1523}e^4 \otimes e_6$	{1234578, 4589}
95321:23	$0, 0, 0, 0, \frac{2}{267}\sqrt{19}e^{12}, \frac{2}{1335}\sqrt{1570}e^{13}, \frac{2}{1335}\sqrt{835}e^{15}, \frac{1}{1335}\sqrt{2470}e^{17},$ $\frac{2}{1335}\sqrt{395}e^{18} + \frac{1}{1335}\sqrt{6090}e^{25}$	$(-\frac{2}{1335}, -\frac{2}{445}, -\frac{3}{445}, \frac{77}{1335}, -\frac{8}{1335}, -\frac{11}{1335}, -\frac{2}{267}, -\frac{4}{445}, -\frac{14}{1335})$ $+ \frac{2}{1335}\sqrt{1355}e^3 \otimes e_9 + \frac{1}{1335}\sqrt{1790}e^2 \otimes e_6$	{1456789, 156789}
95321:23	$0, 0, 0, 0, \frac{2}{1303}\sqrt{137085}e^{12}, \frac{3}{1303}\sqrt{74370}e^{13}, \frac{2}{1303}\sqrt{60495}e^{15},$ $\frac{1}{1303}\sqrt{351870}e^{17}, \frac{15}{1303}\sqrt{2294}e^{18} + \frac{1}{1303}\sqrt{183705}e^{25}$	$(\frac{49}{1303}, \frac{147}{1303}, -\frac{457}{1303}, \frac{146}{1303}, \frac{196}{1303}, -\frac{408}{1303}, \frac{245}{1303}, \frac{294}{1303}, \frac{343}{1303})$ $+ \frac{1}{1303}\sqrt{1284270}e^2 \otimes e_6$	{1456789, 156789, 2458, 258}
95321:23	$0, 0, 0, 0, \frac{2}{1327}\sqrt{98430}e^{12}, \frac{6}{1327}\sqrt{29915}e^{13}, \frac{10}{1327}\sqrt{7334}e^{15},$ $\frac{1}{1327}\sqrt{110010}e^{17}, \frac{14}{1327}\sqrt{2895}e^{18} + \frac{1}{1327}\sqrt{909030}e^{25}$	$(-\frac{28}{1327}, -\frac{84}{1327}, \frac{769}{1327}, \frac{183}{1327}, -\frac{112}{1327}, \frac{741}{1327}, -\frac{140}{1327}, -\frac{168}{1327}, -\frac{196}{1327})$ $+ \frac{4}{1327}\sqrt{137995}e^3 \otimes e_9$	{1234578, 123578, 4589, 589}
95321:23	$0, 0, 0, 0, \frac{62}{2669}\sqrt{339}e^{12}, \frac{31}{2669}\sqrt{2546}e^{13}, \frac{31}{2669}\sqrt{2526}e^{15},$ $\frac{62}{2669}\sqrt{570}e^{17}, \frac{62}{2669}\sqrt{462}e^{18} + \frac{31}{2669}\sqrt{1230}e^{25}$	$(\frac{93}{2669}, \frac{279}{2669}, -\frac{868}{2669}, \frac{186}{2669}, \frac{372}{2669}, -\frac{775}{2669}, \frac{465}{2669}, \frac{558}{2669}, \frac{651}{2669})$ $+ \frac{31}{2669}\sqrt{4966}e^1 \otimes e_3 + \frac{62}{2669}\sqrt{78}e^4 \otimes e_6$	{158, 235789}
95321:23	$0, 0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{28}{123}\sqrt{3}e^{13}, \frac{4}{123}\sqrt{149}e^{15}, \frac{8}{123}\sqrt{30}e^{17},$ $\frac{20}{123}\sqrt{3}e^{18} + \frac{4}{123}\sqrt{14}e^{25}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, -\frac{20}{123}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, \frac{8}{41}, \frac{28}{123})$ $+ \frac{4}{123}\sqrt{131}e^2 \otimes e_4 + \frac{4}{123}\sqrt{310}e^1 \otimes e_3$	{1458, 235789}
95321:23	$0, 0, 0, 0, \frac{1}{681}\sqrt{73730}e^{12}, \frac{1}{681}\sqrt{5110}e^{13}, \frac{2}{681}\sqrt{34310}e^{15},$ $\frac{1}{681}\sqrt{82490}e^{17}, \frac{2}{681}\sqrt{78110}e^{18} + \frac{2}{681}\sqrt{68255}e^{25}$	$(-\frac{7}{681}, -\frac{7}{227}, \frac{119}{681}, 1, -\frac{28}{681}, \frac{112}{681}, -\frac{35}{681}, -\frac{14}{227}, -\frac{49}{681})$ $+ \frac{1}{681}\sqrt{825630}e^4 \otimes e_9$	{13468, 148, 23789, 26789}
95321:23	$0, 0, 0, 0, \frac{2}{361}\sqrt{7530}e^{12}, \frac{1}{361}\sqrt{3514}e^{13}, \frac{2}{361}\sqrt{13303}e^{15}, \frac{14}{361}\sqrt{251}e^{17},$ $\frac{2}{361}\sqrt{9538}e^{18} + \frac{4}{361}\sqrt{1255}e^{25}$	$(\frac{14}{361}, \frac{42}{361}, \frac{55}{361}, -\frac{237}{361}, \frac{56}{361}, \frac{69}{361}, \frac{70}{361}, \frac{84}{361}, \frac{98}{361})$ $+ \frac{1}{361}\sqrt{150098}e^1 \otimes e_4$	{1358, 1568, 23456789, 245789}
95321:23	$0, 0, 0, 0, \frac{9}{653}\sqrt{382}e^{12}, \frac{9}{653}\sqrt{838}e^{13}, \frac{18}{653}\sqrt{182}e^{15}, \frac{81}{653}\sqrt{10}e^{17},$ $\frac{18}{653}\sqrt{214}e^{18} + \frac{18}{653}\sqrt{57}e^{25}$	$(\frac{9}{653}, \frac{27}{653}, -\frac{153}{653}, \frac{225}{653}, \frac{36}{653}, -\frac{144}{653}, \frac{45}{653}, \frac{54}{653}, \frac{63}{653})$ $+ \frac{36}{653}\sqrt{107}e^1 \otimes e_3 + \frac{9}{653}\sqrt{638}e^4 \otimes e_9$	{1458, 235789}
95321:23	$0, 0, 0, 0, \frac{6}{2633}\sqrt{17014}e^{12}, \frac{24}{2633}\sqrt{12851}e^{13}, \frac{6}{2633}\sqrt{47603}e^{15},$ $\frac{6}{2633}\sqrt{36562}e^{17}, \frac{36}{2633}\sqrt{1086}e^{18} + \frac{6}{2633}\sqrt{55205}e^{25}$	$(\frac{75}{2633}, \frac{225}{2633}, -\frac{700}{2633}, 1, \frac{300}{2633}, -\frac{625}{2633}, \frac{375}{2633}, \frac{450}{2633}, \frac{525}{2633})$ $+ \frac{78}{2633}\sqrt{2353}e^4 \otimes e_6$	{134, 16, 23679, 2479}
95321:23	$0, 0, 0, 0, \frac{22}{2463}\sqrt{879}e^{12}, \frac{11}{2463}\sqrt{7086}e^{13}, \frac{22}{2463}\sqrt{627}e^{15},$ $\frac{11}{821}\sqrt{358}e^{17}, \frac{11}{821}\sqrt{474}e^{18} + \frac{22}{2463}\sqrt{1410}e^{25}$	$(\frac{55}{2463}, \frac{55}{821}, -\frac{253}{2463}, -\frac{616}{2463}, \frac{220}{2463}, -\frac{66}{821}, \frac{275}{2463}, \frac{110}{821}, \frac{385}{2463})$ $+ \frac{11}{2463}\sqrt{9210}e^2 \otimes e_6 + \frac{22}{2463}\sqrt{1158}e^3 \otimes e_4$	{1456789, 2458}
95321:23	$0, 0, 0, 0, \frac{2}{1351}\sqrt{78069}e^{12}, \frac{1}{1351}\sqrt{558758}e^{13}, \frac{1}{1351}\sqrt{580362}e^{15},$ $\frac{2}{1351}\sqrt{131097}e^{17}, \frac{12}{1351}\sqrt{2946}e^{18} + \frac{1}{1351}\sqrt{279870}e^{25}$	$(\frac{45}{1351}, \frac{135}{1351}, -\frac{446}{1351}, \frac{24}{1351}, \frac{180}{1351}, -\frac{401}{1351}, \frac{225}{1351}, \frac{270}{1351}, \frac{45}{193})$ $+ \frac{13}{1351}\sqrt{6874}e^1 \otimes e_3$	{1458, 158, 2345789, 235789}
95321:23	$0, 0, 0, 0, \frac{38}{1357}\sqrt{161}e^{12}, \frac{399}{1357}\sqrt{2}e^{13}, \frac{38}{1357}\sqrt{119}e^{15},$ $\frac{19}{1357}\sqrt{430}e^{17}, \frac{19}{1357}\sqrt{422}e^{18} + \frac{38}{1357}\sqrt{301}e^{25}$	$(\frac{19}{1357}, \frac{57}{1357}, -\frac{323}{1357}, \frac{494}{1357}, \frac{76}{1357}, -\frac{304}{1357}, \frac{95}{1357}, \frac{114}{1357}, \frac{133}{1357})$ $+ \frac{19}{1357}\sqrt{1726}e^2 \otimes e_6 + \frac{76}{1357}\sqrt{47}e^4 \otimes e_9$	{156789, 2458}
95321:23	$0, 0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{28}{123}\sqrt{3}e^{13}, \frac{4}{123}\sqrt{2}e^{15}, \frac{4}{41}\sqrt{3}e^{17},$ $\frac{8}{41}\sqrt{2}e^{18} + \frac{4}{123}\sqrt{133}e^{25}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{8}{41}, -\frac{28}{123}, \frac{16}{123}, -\frac{20}{123}, \frac{20}{123}, \frac{8}{41}, \frac{28}{123})$ $+ \frac{4}{123}\sqrt{163}e^1 \otimes e_4 + \frac{4}{123}\sqrt{278}e^2 \otimes e_6$	{123789, 3468}
95321:23	$0, 0, 0, 0, \frac{6}{2633}\sqrt{17014}e^{12}, \frac{24}{2633}\sqrt{12851}e^{13}, \frac{6}{2633}\sqrt{47603}e^{15},$ $\frac{6}{2633}\sqrt{36562}e^{17}, \frac{36}{2633}\sqrt{1086}e^{18} + \frac{6}{2633}\sqrt{55205}e^{25}$	$(\frac{75}{2633}, \frac{225}{2633}, \frac{1497}{2633}, -\frac{1761}{2633}, \frac{300}{2633}, \frac{1572}{2633}, \frac{375}{2633}, \frac{450}{2633}, \frac{525}{2633})$ $+ \frac{78}{2633}\sqrt{2353}e^3 \otimes e_4$	{13, 146, 23679, 2479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:23	$0, 0, 0, 0, \frac{2}{337}\sqrt{20942}e^{12}, \frac{4}{337}\sqrt{283}e^{13}, \frac{2}{337}\sqrt{849}e^{15}, \frac{1}{337}\sqrt{19810}e^{17},$ $\frac{4}{337}\sqrt{2830}e^{18} + \frac{1}{337}\sqrt{79806}e^{25}$	$(\frac{16}{337}, \frac{48}{337}, \frac{43}{337}, -\frac{235}{337}, \frac{64}{337}, \frac{59}{337}, \frac{80}{337}, \frac{96}{337}, \frac{112}{337})$ $+ \frac{2}{337}\sqrt{40469}e^2 \otimes e_4$	{1345789, 1456789, 23568, 258}
95321:23	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{2}{11}\sqrt{47}e^{13}, \frac{2}{11}\sqrt{33}e^{15}, \frac{1}{11}\sqrt{138}e^{17},$ $\frac{12}{11}e^{18} + \frac{5}{11}\sqrt{6}e^{25}$	$(0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0, 0)$ $+ \frac{14}{11}e^1 \otimes e_3 + \frac{6}{11}\sqrt{5}e^2 \otimes e_6$	{1479, 179}
95321:24	$0, 0, 0, 0, \frac{46}{7949}\sqrt{415}e^{12}, \frac{23}{7949}\sqrt{7454}e^{13}, \frac{184}{7949}\sqrt{61}e^{25},$ $\frac{23}{7949}\sqrt{4434}e^{27}, \frac{46}{7949}\sqrt{1201}e^{15} + \frac{69}{7949}\sqrt{526}e^{28}$	$(\frac{345}{7949}, \frac{115}{7949}, -\frac{759}{7949}, \frac{1288}{7949}, \frac{460}{7949}, -\frac{414}{7949}, \frac{575}{7949}, \frac{690}{7949}, \frac{805}{7949})$ $+ \frac{23}{7949}\sqrt{9962}e^2 \otimes e_6 + \frac{92}{7949}\sqrt{266}e^3 \otimes e_4$	{146, 2479}
95321:24	$0, 0, 0, 0, \frac{18}{245}\sqrt{53}e^{12}, \frac{18}{49}e^{13}, \frac{18}{245}\sqrt{13}e^{25}, \frac{18}{245}\sqrt{2}e^{27},$ $\frac{9}{245}\sqrt{134}e^{15} + \frac{27}{245}\sqrt{6}e^{28}$	$(\frac{27}{245}, \frac{9}{245}, -\frac{54}{245}, -\frac{72}{245}, \frac{36}{245}, -\frac{27}{245}, \frac{9}{245}, \frac{54}{245}, \frac{9}{35})$ $+ \frac{9}{245}\sqrt{190}e^2 \otimes e_4 + \frac{9}{245}\sqrt{254}e^1 \otimes e_3$	{14578, 23589}
95321:24	$0, 0, 0, 0, \frac{10}{343}\sqrt{798}e^{12}, \frac{12}{343}\sqrt{95}e^{13}, \frac{2}{343}\sqrt{285}e^{25}, \frac{1}{343}\sqrt{16530}e^{27},$ $\frac{1}{343}\sqrt{74670}e^{15} + \frac{12}{343}\sqrt{285}e^{28}$	$(\frac{48}{343}, \frac{16}{343}, \frac{29}{343}, -\frac{237}{343}, \frac{64}{343}, \frac{11}{343}, \frac{80}{343}, \frac{96}{343}, \frac{16}{49})$ $+ \frac{10}{343}\sqrt{1653}e^1 \otimes e_4$	{1358, 1568, 23456789, 245789}
95321:24	$0, 0, 0, 0, \frac{82}{3101}\sqrt{789}e^{12}, \frac{41}{3101}\sqrt{1538}e^{13}, \frac{123}{3101}\sqrt{22}e^{25},$ $\frac{492}{3101}\sqrt{6}e^{27}, \frac{123}{3101}\sqrt{326}e^{15} + \frac{164}{3101}\sqrt{111}e^{28}$	$(\frac{369}{3101}, \frac{123}{3101}, -\frac{1312}{3101}, \frac{738}{3101}, \frac{492}{3101}, -\frac{943}{3101}, \frac{615}{3101}, \frac{738}{3101}, \frac{123}{443})$ $+ \frac{164}{3101}\sqrt{57}e^4 \otimes e_6 + \frac{41}{3101}\sqrt{4726}e^1 \otimes e_3$	{1458, 2345789}
95321:24	$0, 0, 0, 0, \frac{42}{269}e^{12}, \frac{7}{269}\sqrt{194}e^{13}, \frac{56}{269}\sqrt{2}e^{25}, \frac{21}{269}\sqrt{14}e^{27},$ $\frac{28}{269}\sqrt{5}e^{15} + \frac{7}{269}\sqrt{110}e^{28}$	$(\frac{21}{269}, \frac{7}{269}, -\frac{63}{269}, -\frac{28}{269}, \frac{28}{269}, -\frac{42}{269}, \frac{35}{269}, \frac{42}{269}, \frac{49}{269})$ $+ \frac{14}{269}\sqrt{31}e^1 \otimes e_4 + \frac{7}{269}\sqrt{346}e^2 \otimes e_6$	{156789, 2458}
95321:24	$0, 0, 0, 0, \frac{2}{33}\sqrt{11}e^{12}, \frac{1}{33}\sqrt{154}e^{13}, \frac{1}{33}\sqrt{66}e^{25}, \frac{1}{33}\sqrt{154}e^{27},$ $\frac{1}{33}\sqrt{22}e^{15} + \frac{1}{3}\sqrt{2}e^{28}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0, 0)$ $+ \frac{1}{33}\sqrt{330}e^2 \otimes e_4 + \frac{1}{33}\sqrt{77}e^3 \otimes e_9$	{134, 279}
95321:24	$0, 0, 0, 0, \frac{1}{685}\sqrt{68262}e^{12}, \frac{1}{685}\sqrt{15414}e^{13}, \frac{1}{685}\sqrt{141662}e^{25},$ $\frac{6}{685}\sqrt{2202}e^{27}, \frac{3}{685}\sqrt{31562}e^{15} + \frac{3}{685}\sqrt{34498}e^{28}$	$(-\frac{21}{685}, -\frac{7}{685}, \frac{126}{685}, 1, -\frac{28}{685}, \frac{21}{137}, -\frac{7}{137}, -\frac{42}{685}, -\frac{49}{685})$ $+ \frac{1}{685}\sqrt{836026}e^4 \otimes e_9$	{136789, 1789, 2348, 2468}
95321:24	$0, 0, 0, 0, \frac{2}{1475}\sqrt{15703}e^{12}, \frac{1}{1475}\sqrt{521646}e^{13}, \frac{8}{1475}\sqrt{5745}e^{25},$ $\frac{1}{1475}\sqrt{397554}e^{27}, \frac{18}{1475}\sqrt{1149}e^{15} + \frac{1}{1475}\sqrt{399086}e^{28}$	$(\frac{111}{1475}, \frac{37}{1475}, -\frac{457}{1475}, \frac{224}{1475}, \frac{148}{1475}, -\frac{346}{1475}, \frac{37}{295}, \frac{222}{1475}, \frac{259}{1475})$ $+ \frac{3}{1475}\sqrt{106474}e^2 \otimes e_6$	{146, 16, 2479, 279}
95321:24	$0, 0, 0, 0, \frac{22}{1401}\sqrt{1649}e^{12}, \frac{8}{1401}\sqrt{18139}e^{13}, \frac{2}{1401}\sqrt{92829}e^{25},$ $\frac{1}{1401}\sqrt{424666}e^{27}, \frac{11}{1401}\sqrt{2522}e^{15} + \frac{2}{1401}\sqrt{321167}e^{28}$	$(-\frac{30}{467}, -\frac{10}{467}, \frac{857}{1401}, \frac{223}{1401}, -\frac{40}{467}, \frac{767}{1401}, -\frac{50}{467}, -\frac{60}{467}, -\frac{70}{467})$ $+ \frac{2}{1401}\sqrt{628463}e^3 \otimes e_9$	{146789, 16789, 23468, 2368}
95321:24	$0, 0, 0, 0, \frac{6}{2777}\sqrt{91466}e^{12}, \frac{4}{2777}\sqrt{512430}e^{13}, \frac{10}{2777}\sqrt{11571}e^{25},$ $\frac{2}{2777}\sqrt{552102}e^{27}, \frac{2}{2777}\sqrt{735585}e^{15} + \frac{4}{2777}\sqrt{175218}e^{28}$	$(\frac{207}{2777}, \frac{69}{2777}, \frac{1537}{2777}, -\frac{1769}{2777}, \frac{276}{2777}, \frac{1744}{2777}, \frac{345}{2777}, \frac{414}{2777}, \frac{483}{2777})$ $+ \frac{2}{2777}\sqrt{3757269}e^3 \otimes e_4$	{13, 146, 23679, 2479}
95321:24	$0, 0, 0, 0, \frac{6}{2777}\sqrt{91466}e^{12}, \frac{4}{2777}\sqrt{512430}e^{13}, \frac{10}{2777}\sqrt{11571}e^{25},$ $\frac{2}{2777}\sqrt{552102}e^{27}, \frac{2}{2777}\sqrt{735585}e^{15} + \frac{4}{2777}\sqrt{175218}e^{28}$	$(\frac{207}{2777}, \frac{69}{2777}, -\frac{736}{2777}, 1, \frac{276}{2777}, -\frac{529}{2777}, \frac{345}{2777}, \frac{414}{2777}, \frac{483}{2777})$ $+ \frac{2}{2777}\sqrt{3757269}e^4 \otimes e_6$	{134, 16, 23679, 2479}
95321:24	$0, 0, 0, 0, \frac{42}{1469}\sqrt{290}e^{12}, \frac{21}{1469}\sqrt{818}e^{13}, \frac{21}{1469}\sqrt{302}e^{25}, \frac{378}{1469}e^{27},$ $\frac{21}{1469}\sqrt{1482}e^{15} + \frac{42}{1469}\sqrt{97}e^{28}$	$(\frac{63}{1469}, \frac{21}{1469}, -\frac{378}{1469}, \frac{588}{1469}, \frac{84}{1469}, -\frac{315}{1469}, \frac{105}{1469}, \frac{126}{1469}, \frac{147}{1469})$ $+ \frac{21}{1469}\sqrt{1762}e^1 \otimes e_3 + \frac{42}{1469}\sqrt{247}e^4 \otimes e_9$	{1458, 235789}
95321:24	$0, 0, 0, 0, \frac{2}{65}\sqrt{777}e^{12}, \frac{1}{13}\sqrt{74}e^{13}, \frac{1}{65}\sqrt{222}e^{25}, \frac{2}{65}\sqrt{222}e^{27},$ $\frac{1}{65}\sqrt{2886}e^{15} + \frac{4}{65}\sqrt{111}e^{28}$	$(\frac{9}{65}, \frac{3}{65}, -\frac{28}{65}, \frac{6}{65}, \frac{12}{65}, -\frac{19}{65}, \frac{3}{13}, \frac{18}{65}, \frac{21}{65})$ $+ \frac{1}{65}\sqrt{4366}e^1 \otimes e_3$	{1458, 158, 2345789, 235789}
95321:24	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{2}{55}\sqrt{235}e^{13}, \frac{4}{55}\sqrt{30}e^{25}, \frac{3}{55}\sqrt{70}e^{27},$ $\frac{1}{55}\sqrt{930}e^{15} + \frac{2}{55}\sqrt{195}e^{28}$	$(0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0, 0)$ $+ \frac{2}{55}\sqrt{185}e^1 \otimes e_3 + \frac{2}{55}\sqrt{285}e^2 \otimes e_6$	{2479, 279}
95321:24	$0, 0, 0, 0, \frac{18}{6619}\sqrt{485}e^{12}, \frac{36}{6619}\sqrt{367}e^{13}, \frac{234}{6619}\sqrt{3}e^{25},$ $\frac{9}{6619}\sqrt{3594}e^{27}, \frac{9}{6619}\sqrt{2438}e^{15} + \frac{18}{6619}\sqrt{1299}e^{28}$	$(-\frac{54}{6619}, -\frac{18}{6619}, -\frac{45}{6619}, \frac{693}{6619}, -\frac{72}{6619}, -\frac{99}{6619}, -\frac{90}{6619}, -\frac{108}{6619}, -\frac{126}{6619})$ $+ \frac{18}{6619}\sqrt{1099}e^3 \otimes e_9 + \frac{36}{6619}\sqrt{466}e^2 \otimes e_6$	{2479, 279}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:24	$0, 0, 0, 0, \frac{689}{8553}\sqrt{26}e^{12}, \frac{53}{8553}\sqrt{7270}e^{13}, \frac{1060}{8553}\sqrt{3}e^{25},$ $\frac{53}{8553}\sqrt{2002}e^{27}, \frac{53}{8553}\sqrt{310}e^{15} + \frac{53}{8553}\sqrt{5522}e^{28}$	$(-\frac{159}{2851}, -\frac{53}{2851}, \frac{1696}{8553}, \frac{4028}{8553}, -\frac{212}{2851}, \frac{1219}{8553}, -\frac{265}{2851}, -\frac{318}{2851}, -\frac{371}{2851})$ $+\frac{106}{2851}\sqrt{179}e^4 \otimes e_6 + \frac{265}{8553}\sqrt{362}e^3 \otimes e_9$	{125679, 356}
95321:24	$0, 0, 0, 0, \frac{40}{607}\sqrt{6}e^{12}, \frac{8}{607}\sqrt{894}e^{13}, \frac{8}{607}\sqrt{562}e^{25}, \frac{96}{607}\sqrt{5}e^{27},$ $\frac{24}{607}\sqrt{58}e^{15} + \frac{24}{607}\sqrt{94}e^{28}$	$(\frac{24}{607}, \frac{8}{607}, -\frac{144}{607}, \frac{184}{607}, \frac{32}{607}, -\frac{120}{607}, \frac{40}{607}, \frac{48}{607}, \frac{56}{607})$ $+\frac{48}{607}\sqrt{47}e^2 \otimes e_6 + \frac{8}{607}\sqrt{418}e^4 \otimes e_9$	{146, 279}
95321:24	$0, 0, 0, 0, \frac{2}{367}\sqrt{6578}e^{12}, \frac{1}{367}\sqrt{10626}e^{13}, \frac{1}{367}\sqrt{56166}e^{25},$ $\frac{1}{367}\sqrt{53130}e^{27}, \frac{1}{367}\sqrt{25806}e^{15} + \frac{1}{367}\sqrt{43010}e^{28}$	$(\frac{42}{367}, \frac{14}{367}, \frac{43}{367}, -\frac{239}{367}, \frac{56}{367}, \frac{85}{367}, \frac{70}{367}, \frac{84}{367}, \frac{98}{367})$ $+\frac{1}{367}\sqrt{153318}e^2 \otimes e_4$	{1345789, 1456789, 23568, 258}
95321:24	$0, 0, 0, 0, \frac{2}{69}\sqrt{46}e^{12}, \frac{4}{69}\sqrt{46}e^{13}, \frac{2}{69}\sqrt{69}e^{25}, \frac{1}{69}\sqrt{46}e^{27},$ $\frac{1}{69}\sqrt{782}e^{15} + \frac{4}{69}\sqrt{23}e^{28}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0, 0)$ $+\frac{2}{69}\sqrt{345}e^1 \otimes e_4 + \frac{8}{69}\sqrt{23}e^3 \otimes e_9$	{135, 24579}
95321:25	$0, 0, 0, 0, \frac{172}{1537}\sqrt{87}e^{12}, \frac{43}{1537}\sqrt{215}e^{13}, \frac{43}{1537}\sqrt{373}e^{15},$ $\frac{258}{1537}\sqrt{6}e^{17}, \frac{215}{1537}\sqrt{15}e^{18} + \frac{86}{1537}\sqrt{74}e^{24} + \frac{860}{1537}e^{36}$	$(-\frac{215}{1537}, \frac{989}{1537}, \frac{172}{1537}, -\frac{860}{1537}, \frac{774}{1537}, -\frac{43}{1537}, \frac{559}{1537}, \frac{344}{1537}, \frac{129}{1537})$ $+\frac{43}{1537}\sqrt{2545}e^2 \otimes e_4$	{13456, 145}
95321:26	$0, 0, 0, 0, -\frac{43}{1789}\sqrt{1217}e^{12}, \frac{43}{1789}\sqrt{989}e^{13}, \frac{43}{1789}\sqrt{295}e^{25},$ $\frac{43}{1789}\sqrt{197}e^{27}, \frac{43}{1789}\sqrt{606}e^{14} + \frac{43}{1789}\sqrt{259}e^{28} + \frac{43}{1789}\sqrt{497}e^{36}$	$(\frac{989}{1789}, -\frac{215}{1789}, -\frac{430}{1789}, -\frac{860}{1789}, \frac{774}{1789}, \frac{559}{1789}, \frac{559}{1789}, \frac{344}{1789}, \frac{129}{1789})$ $+\frac{258}{1789}\sqrt{82}e^1 \otimes e_4$	{23456, 245, 3468, 48, 23456, 245, 3468, 48}
95321:26	$0, 0, 0, 0, \frac{43}{1789}\sqrt{1217}e^{12}, \frac{43}{1789}\sqrt{989}e^{13}, \frac{43}{1789}\sqrt{295}e^{25},$ $\frac{43}{1789}\sqrt{197}e^{27}, \frac{43}{1789}\sqrt{606}e^{14} + \frac{43}{1789}\sqrt{259}e^{28} + \frac{43}{1789}\sqrt{497}e^{36}$	$(\frac{989}{1789}, -\frac{215}{1789}, -\frac{430}{1789}, -\frac{860}{1789}, \frac{774}{1789}, \frac{559}{1789}, \frac{559}{1789}, \frac{344}{1789}, \frac{129}{1789})$ $+\frac{258}{1789}\sqrt{82}e^1 \otimes e_4$	{23456, 245, 3468, 48, 23456, 245, 3468, 48}
95321:27	$0, 0, 0, 0, \frac{9}{637}\sqrt{2982}e^{12}, \frac{9}{637}\sqrt{5622}e^{13}, \frac{18}{637}\sqrt{21}e^{25}, \frac{54}{637}\sqrt{47}e^{27},$ $\frac{18}{637}\sqrt{471}e^{16} + \frac{9}{637}\sqrt{1842}e^{28} + \frac{9}{637}\sqrt{2418}e^{34}$	$(-\frac{135}{637}, \frac{81}{637}, \frac{459}{637}, -\frac{270}{637}, -\frac{54}{637}, \frac{324}{637}, \frac{27}{637}, \frac{108}{637}, \frac{27}{637})$ $+\frac{18}{637}\sqrt{2343}e^3 \otimes e_4$	{124568, 146}
95321:34	$0, 0, 0, 0, \frac{106}{4617}\sqrt{426}e^{12}, \frac{106}{4617}\sqrt{298}e^{13}, \frac{106}{4617}\sqrt{587}e^{15},$ $\frac{212}{4617}\sqrt{39}e^{17}, \frac{212}{4617}\sqrt{15}e^{18} + \frac{106}{4617}\sqrt{327}e^{25} + \frac{212}{4617}\sqrt{457}e^{36}$	$(\frac{265}{4617}, \frac{265}{1539}, \frac{2491}{4617}, -\frac{3127}{4617}, \frac{1060}{4617}, -\frac{212}{1539}, \frac{1325}{4617}, \frac{530}{1539}, \frac{1855}{4617})$ $+\frac{106}{4617}\sqrt{3723}e^3 \otimes e_4$	{12367, 469}
95321:39	$0, 0, 0, 0, \frac{25}{1579}\sqrt{714}e^{12}, \frac{25}{1579}\sqrt{4902}e^{13}, \frac{25}{1579}\sqrt{1578}e^{15},$ $\frac{25}{1579}\sqrt{930}e^{17}, \frac{300}{1579}\sqrt{3}e^{18} + \frac{25}{1579}\sqrt{1662}e^{25} + \frac{25}{1579}\sqrt{1578}e^{34}$	$(\frac{25}{1579}, \frac{75}{1579}, \frac{1025}{1579}, -\frac{850}{1579}, \frac{100}{1579}, \frac{1050}{1579}, \frac{125}{1579}, \frac{150}{1579}, \frac{175}{1579})$ $+\frac{50}{1579}\sqrt{2019}e^3 \otimes e_4$	{13, 146}
95321:39	$0, 0, 0, 0, \frac{15}{191}\sqrt{30}e^{12}, \frac{18}{191}\sqrt{39}e^{13}, \frac{3}{191}\sqrt{654}e^{15}, \frac{6}{191}\sqrt{165}e^{17},$ $\frac{9}{191}\sqrt{78}e^{18} + \frac{3}{191}\sqrt{1434}e^{25} + \frac{3}{191}\sqrt{654}e^{34}$	$(\frac{3}{191}, \frac{9}{191}, -\frac{48}{191}, \frac{69}{191}, \frac{12}{191}, -\frac{45}{191}, \frac{15}{191}, \frac{18}{191}, \frac{21}{191})$ $+\frac{3}{191}\sqrt{2118}e^2 \otimes e_6$	{156789, 2458}
95321:40	$0, 0, 0, 0, \frac{4}{147}\sqrt{247}e^{12}, \frac{4}{147}\sqrt{19}e^{13}, \frac{4}{147}\sqrt{323}e^{25}, \frac{4}{147}\sqrt{247}e^{27},$ $\frac{8}{147}\sqrt{133}e^{15} + \frac{4}{147}\sqrt{57}e^{28} + \frac{4}{147}\sqrt{779}e^{34}$	$(\frac{6}{49}, \frac{2}{49}, -\frac{64}{147}, \frac{106}{147}, \frac{8}{49}, -\frac{46}{147}, \frac{10}{49}, \frac{12}{49}, \frac{2}{7})$ $+\frac{44}{147}\sqrt{19}e^4 \otimes e_6$	{134, 16, 23679, 2479}
95321:40	$0, 0, 0, 0, \frac{34}{1429}\sqrt{82}e^{12}, \frac{51}{1429}\sqrt{170}e^{13}, \frac{34}{1429}\sqrt{210}e^{25},$ $\frac{51}{1429}\sqrt{118}e^{27}, \frac{68}{1429}\sqrt{57}e^{15} + \frac{425}{1429}\sqrt{2}e^{28} + \frac{34}{1429}\sqrt{123}e^{34}$	$(\frac{51}{1429}, \frac{17}{1429}, -\frac{323}{1429}, \frac{442}{1429}, \frac{68}{1429}, -\frac{272}{1429}, \frac{85}{1429}, \frac{102}{1429}, \frac{119}{1429})$ $+\frac{51}{1429}\sqrt{274}e^2 \otimes e_6$	{146, 279}
95321:40	$0, 0, 0, 0, \frac{79}{5397}\sqrt{2446}e^{12}, \frac{79}{5397}\sqrt{5430}e^{13}, \frac{158}{5397}\sqrt{95}e^{25},$ $\frac{158}{5397}\sqrt{357}e^{27}, \frac{474}{1799}\sqrt{5}e^{15} + \frac{79}{5397}\sqrt{2318}e^{28} + \frac{79}{5397}\sqrt{1430}e^{34}$	$(\frac{79}{1799}, \frac{79}{5397}, \frac{3397}{5397}, -\frac{948}{1799}, \frac{316}{5397}, \frac{3634}{5397}, \frac{395}{5397}, \frac{158}{1799}, \frac{79}{771})$ $+\frac{158}{5397}\sqrt{2239}e^3 \otimes e_4$	{13, 146}
95321:40	$0, 0, 0, 0, \frac{4}{147}\sqrt{247}e^{12}, \frac{4}{147}\sqrt{19}e^{13}, \frac{4}{147}\sqrt{323}e^{25}, \frac{4}{147}\sqrt{247}e^{27},$ $\frac{8}{147}\sqrt{133}e^{15} + \frac{4}{147}\sqrt{57}e^{28} + \frac{4}{147}\sqrt{779}e^{34}$	$(\frac{6}{49}, \frac{2}{49}, -\frac{64}{147}, \frac{106}{147}, \frac{8}{49}, -\frac{46}{147}, \frac{10}{49}, \frac{12}{49}, \frac{2}{7})$ $-\frac{44}{147}\sqrt{19}e^4 \otimes e_6$	{134, 16, 23679, 2479}
95321:41	$0, 0, 0, 0, \frac{46}{941}\sqrt{15}e^{12}, \frac{23}{941}\sqrt{1146}e^{13} + \frac{23}{941}\sqrt{642}e^{24}, \frac{46}{941}\sqrt{179}e^{15},$ $\frac{230}{941}\sqrt{3}e^{17}, \frac{207}{941}\sqrt{2}e^{18} + \frac{69}{941}\sqrt{114}e^{25}$	$(-\frac{23}{941}, -\frac{69}{941}, \frac{368}{941}, \frac{414}{941}, -\frac{92}{941}, \frac{345}{941}, -\frac{115}{941}, -\frac{138}{941}, -\frac{161}{941})$ $+\frac{92}{941}\sqrt{106}e^3 \otimes e_9$	{123578, 4589}
95321:41	$0, 0, 0, 0, \frac{10}{113}\sqrt{77}e^{12}, \frac{5}{113}\sqrt{133}e^{13} + \frac{5}{113}\sqrt{246}e^{24}, \frac{5}{113}\sqrt{69}e^{15},$ $\frac{10}{113}\sqrt{34}e^{17}, \frac{5}{113}\sqrt{223}e^{18} + \frac{5}{113}\sqrt{330}e^{25}$	$(\frac{5}{113}, \frac{15}{113}, -\frac{25}{113}, -\frac{35}{113}, \frac{20}{113}, -\frac{20}{113}, \frac{25}{113}, \frac{30}{113}, \frac{35}{113})$ $+\frac{5}{113}\sqrt{419}e^2 \otimes e_4$	{1345789, 258}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95321:41	$0, 0, 0, 0, \frac{13}{521}\sqrt{610}e^{12}, \frac{13}{521}\sqrt{574}e^{13} + \frac{26}{521}\sqrt{274}e^{24}, \frac{78}{521}\sqrt{2}e^{15},$ $\frac{13}{521}\sqrt{498}e^{17}, \frac{52}{521}\sqrt{70}e^{18} + \frac{26}{521}\sqrt{5}e^{25}$	$(-\frac{13}{521}, -\frac{39}{521}, \frac{221}{521}, \frac{247}{521}, -\frac{52}{521}, \frac{208}{521}, -\frac{65}{521}, -\frac{78}{521}, -\frac{91}{521})$ $+ \frac{13}{521}\sqrt{1774}e^4 \otimes e_9$	{1235679, 456}
95321:41	$0, 0, 0, 0, \frac{14}{261}\sqrt{13}e^{12}, \frac{7}{261}\sqrt{310}e^{13} + \frac{28}{261}\sqrt{11}e^{24}, \frac{7}{261}\sqrt{266}e^{15},$ $\frac{14}{261}\sqrt{65}e^{17}, \frac{28}{261}\sqrt{15}e^{18} + \frac{7}{261}\sqrt{206}e^{25}$	$(\frac{7}{261}, \frac{7}{87}, -\frac{14}{87}, -\frac{56}{261}, \frac{28}{261}, -\frac{35}{261}, \frac{35}{261}, \frac{14}{87}, \frac{49}{261})$ $+ \frac{7}{261}\sqrt{458}e^1 \otimes e_3$	{158, 2345789}
95321:48	$0, 0, 0, 0, -\frac{17}{421}\sqrt{122}e^{12}, \frac{17}{421}\sqrt{51}e^{13}, \frac{51}{421}\sqrt{29}e^{25}, \frac{68}{421}\sqrt{15}e^{27},$ $\frac{51}{421}\sqrt{14}e^{15} + \frac{17}{421}\sqrt{185}e^{28} + \frac{17}{421}\sqrt{30}e^{36}$	$(\frac{51}{421}, \frac{17}{421}, \frac{34}{421}, -\frac{272}{421}, \frac{68}{421}, \frac{85}{421}, \frac{85}{421}, \frac{102}{421}, \frac{119}{421})$ $+ \frac{51}{421}\sqrt{77}e^2 \otimes e_4$	{1345789, 1456789, 23568, 258, 1345789, 1456789, 23568, 258}
95321:48	$0, 0, 0, 0, \frac{17}{421}\sqrt{122}e^{12}, \frac{17}{421}\sqrt{51}e^{13}, \frac{51}{421}\sqrt{29}e^{25}, \frac{68}{421}\sqrt{15}e^{27},$ $\frac{51}{421}\sqrt{14}e^{15} + \frac{17}{421}\sqrt{185}e^{28} + \frac{17}{421}\sqrt{30}e^{36}$	$(\frac{51}{421}, \frac{17}{421}, \frac{34}{421}, -\frac{272}{421}, \frac{68}{421}, \frac{85}{421}, \frac{85}{421}, \frac{102}{421}, \frac{119}{421})$ $+ \frac{51}{421}\sqrt{77}e^2 \otimes e_4$	{1345789, 1456789, 23568, 258, 1345789, 1456789, 23568, 258}
95321:48	$0, 0, 0, 0, -\frac{3}{65}\sqrt{318}e^{12}, \frac{9}{65}\sqrt{6}e^{13}, \frac{3}{65}\sqrt{6}e^{25}, \frac{3}{65}\sqrt{66}e^{27},$ $\frac{6}{13}\sqrt{3}e^{15} + \frac{27}{65}\sqrt{2}e^{28} + \frac{3}{65}\sqrt{6}e^{36}$	$(\frac{9}{65}, \frac{3}{65}, \frac{6}{65}, -\frac{9}{13}, \frac{12}{65}, \frac{3}{13}, \frac{3}{13}, \frac{18}{65}, \frac{21}{65})$ $+ \frac{6}{65}\sqrt{165}e^1 \otimes e_4$	{1358, 1568, 23456789, 245789, 1358, 1568, 23456789, 245789}
95321:48	$0, 0, 0, 0, \frac{3}{65}\sqrt{318}e^{12}, \frac{9}{65}\sqrt{6}e^{13}, \frac{3}{65}\sqrt{6}e^{25}, \frac{3}{65}\sqrt{66}e^{27},$ $\frac{6}{13}\sqrt{3}e^{15} + \frac{27}{65}\sqrt{2}e^{28} + \frac{3}{65}\sqrt{6}e^{36}$	$(\frac{9}{65}, \frac{3}{65}, \frac{6}{65}, -\frac{9}{13}, \frac{12}{65}, \frac{3}{13}, \frac{3}{13}, \frac{18}{65}, \frac{21}{65})$ $+ \frac{6}{65}\sqrt{165}e^1 \otimes e_4$	{1358, 1568, 23456789, 245789, 1358, 1568, 23456789, 245789}
9542:1	$0, 0, 0, 0, \frac{1}{1721}\sqrt{1223974}e^{12}, \frac{8}{1721}\sqrt{25897}e^{15}, \frac{1}{1721}\sqrt{280778}e^{25},$ $\frac{4}{1721}\sqrt{72239}e^{16}, \frac{10}{1721}\sqrt{1363}e^{27}$	$(\frac{240}{1721}, \frac{3}{1721}, -\frac{1123}{1721}, \frac{299}{1721}, \frac{243}{1721}, \frac{483}{1721}, \frac{246}{1721}, \frac{723}{1721}, \frac{249}{1721})$ $+ \frac{6}{1721}\sqrt{107677}e^1 \otimes e_3$	{1246, 126, 14589, 1589, 23456789, 2356789, 347, 37}
9542:1	$0, 0, 0, 0, \frac{1}{119}\sqrt{2346}e^{12}, \frac{6}{119}\sqrt{161}e^{15}, \frac{1}{119}\sqrt{966}e^{25}, \frac{2}{119}\sqrt{1173}e^{16},$ $\frac{2}{119}\sqrt{1173}e^{27}$	$(\frac{26}{119}, -\frac{23}{119}, \frac{3}{17}, \frac{3}{17}, \frac{29}{119}, -\frac{20}{119}, \frac{55}{119}, -\frac{43}{119})$ $+ \frac{2}{17}\sqrt{69}e^1 \otimes e_9$	{13458, 1358, 158, 3479, 379, 79}
9542:1	$0, 0, 0, 0, \frac{13}{128}\sqrt{14}e^{12}, \frac{13}{256}\sqrt{15}e^{15}, \frac{13}{256}\sqrt{15}e^{25}, \frac{13}{256}\sqrt{114}e^{16},$ $\frac{13}{256}\sqrt{114}e^{27}$	$(-\frac{13}{512}, -\frac{13}{512}, \frac{143}{256}, \frac{143}{256}, -\frac{13}{256}, -\frac{39}{512}, -\frac{39}{512}, -\frac{13}{128}, -\frac{13}{128})$ $+ \frac{13}{256}\sqrt{226}e^3 \otimes e_8 + \frac{13}{256}\sqrt{226}e^4 \otimes e_9$	{12589, 1346, 56789}
9542:1	$0, 0, 0, 0, \frac{2}{4997}\sqrt{610631}e^{12}, \frac{2}{4997}\sqrt{1190783}e^{15}, \frac{6}{4997}\sqrt{22071}e^{25},$ $\frac{16}{4997}\sqrt{24173}e^{16}, \frac{2}{4997}\sqrt{5255}e^{27}$	$(\frac{24}{4997}, \frac{179}{4997}, \frac{2353}{4997}, -\frac{2078}{4997}, \frac{203}{4997}, \frac{227}{4997}, \frac{382}{4997}, \frac{251}{4997}, \frac{561}{4997})$ $+ \frac{2}{4997}\sqrt{1878137}e^3 \otimes e_8 + \frac{4}{4997}\sqrt{694711}e^1 \otimes e_4$	{1236, 1589, 2456789, 347}
9542:1	$0, 0, 0, 0, \frac{6}{989}\sqrt{901}e^{12}, \frac{24}{989}\sqrt{255}e^{15}, \frac{12}{989}\sqrt{170}e^{25}, \frac{12}{989}\sqrt{1326}e^{16},$ $\frac{6}{989}\sqrt{3553}e^{27}$	$(\frac{75}{989}, -\frac{102}{989}, \frac{429}{989}, \frac{120}{989}, -\frac{27}{989}, \frac{48}{989}, -\frac{3}{989}, \frac{123}{989}, -\frac{231}{989})$ $+ \frac{24}{989}\sqrt{595}e^1 \otimes e_9 + \frac{6}{989}\sqrt{5253}e^3 \otimes e_8$	{1458, 158, 3479, 379}
9542:1	$0, 0, 0, 0, \frac{6}{553}\sqrt{79}e^{12}, \frac{6}{553}\sqrt{77}e^{15}, \frac{6}{553}\sqrt{77}e^{25}, \frac{6}{553}\sqrt{158}e^{16},$ $\frac{6}{553}\sqrt{158}e^{27}$	$(-\frac{6}{553}, -\frac{6}{553}, \frac{9}{79}, \frac{9}{79}, -\frac{12}{553}, -\frac{18}{553}, -\frac{18}{553}, -\frac{24}{553}, -\frac{24}{553})$ $+ \frac{6}{79}\sqrt{5}e^1 \otimes e_9 + \frac{6}{79}\sqrt{5}e^2 \otimes e_8$	{123467, 12367, 1267}
9542:1	$0, 0, 0, 0, \frac{20}{541}\sqrt{145}e^{12}, \frac{40}{541}\sqrt{19}e^{15}, \frac{40}{541}\sqrt{19}e^{25}, \frac{20}{541}\sqrt{53}e^{16},$ $\frac{20}{541}\sqrt{53}e^{27}$	$(\frac{30}{541}, \frac{30}{541}, -\frac{170}{541}, -\frac{170}{541}, \frac{60}{541}, \frac{90}{541}, \frac{90}{541}, \frac{120}{541}, \frac{120}{541})$ $+ \frac{20}{541}\sqrt{237}e^1 \otimes e_3 + \frac{20}{541}\sqrt{237}e^2 \otimes e_4$	{1267, 145789, 34}
9542:1	$0, 0, 0, 0, \frac{6}{4025}\sqrt{62301}e^{12}, \frac{4}{4025}\sqrt{260134}e^{15}, \frac{24}{4025}\sqrt{1093}e^{25},$ $\frac{2}{4025}\sqrt{801169}e^{16}, \frac{4}{4025}\sqrt{120230}e^{27}$	$(\frac{514}{4025}, -\frac{289}{4025}, \frac{1833}{4025}, -\frac{1672}{4025}, \frac{9}{161}, \frac{739}{4025}, -\frac{64}{4025}, \frac{179}{575}, -\frac{353}{4025})$ $+ \frac{2}{4025}\sqrt{1435109}e^3 \otimes e_9 + \frac{8}{4025}\sqrt{149741}e^1 \otimes e_4$	{1269, 1358, 2345678, 479}
9542:1	$0, 0, 0, 0, \frac{2}{307}\sqrt{2346}e^{12}, \frac{12}{307}\sqrt{161}e^{15}, \frac{2}{307}\sqrt{966}e^{25}, \frac{4}{307}\sqrt{1173}e^{16},$ $\frac{4}{307}\sqrt{1173}e^{27}$	$(\frac{52}{307}, -\frac{46}{307}, \frac{111}{307}, -\frac{27}{307}, \frac{6}{307}, \frac{58}{307}, -\frac{40}{307}, \frac{110}{307}, -\frac{86}{307})$ $+ \frac{138}{307}e^3 \otimes e_4 + \frac{28}{307}\sqrt{69}e^1 \otimes e_9$	{1358, 1458, 379, 479}
9542:1	$0, 0, 0, 0, \frac{2}{419}\sqrt{9731}e^{12}, \frac{4}{419}\sqrt{1315}e^{15}, \frac{4}{419}\sqrt{1315}e^{25}, \frac{4}{419}\sqrt{9994}e^{16},$ $\frac{2}{419}\sqrt{10257}e^{27}$	$(-\frac{55}{419}, \frac{58}{419}, 1, \frac{80}{419}, \frac{3}{419}, -\frac{52}{419}, \frac{61}{419}, -\frac{107}{419}, \frac{119}{419})$ $+ \frac{2}{419}\sqrt{89157}e^3 \otimes e_8$	{124589, 12589, 1346, 136, 2347, 237, 456789, 56789}
9542:1	$0, 0, 0, 0, \frac{4}{137}\sqrt{109}e^{12}, \frac{2}{137}\sqrt{763}e^{15}, \frac{2}{137}\sqrt{763}e^{25}, \frac{4}{137}\sqrt{218}e^{16},$ $\frac{4}{137}\sqrt{218}e^{27}$	$(\frac{9}{137}, \frac{9}{137}, 1, -\frac{81}{137}, \frac{18}{137}, \frac{27}{137}, \frac{27}{137}, \frac{36}{137}, \frac{36}{137})$ $+ \frac{218}{137}e^3 \otimes e_4$	{12367, 12467, 135789, 145789, 3, 4}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9542:1	$0, 0, 0, 0, \frac{84}{4297}\sqrt{214e^{12}}, \frac{42}{4297}\sqrt{505e^{15}}, \frac{42}{4297}\sqrt{699e^{25}},$ $\frac{42}{4297}\sqrt{1147e^{16}}, \frac{42}{4297}\sqrt{582e^{27}}$	$(-\frac{294}{4297}, \frac{465}{4297}, -\frac{1176}{4297}, \frac{519}{4297}, \frac{171}{4297}, -\frac{123}{4297}, \frac{636}{4297}, -\frac{417}{4297}, \frac{1101}{4297})$ $+\frac{42}{4297}\sqrt{1695e^1} \otimes e_3 + \frac{42}{4297}\sqrt{2083e^2} \otimes e_8$	{12467, 1267, 145789, 15789}
9542:2	$0, 0, 0, 0, \frac{12}{187}\sqrt{34e^{12}}, \frac{12}{187}\sqrt{66e^{15}}, \frac{12}{187}\sqrt{11e^{25}}, \frac{12}{187}\sqrt{51e^{16}},$ $\frac{12}{187}\sqrt{34e^{27}} + \frac{12}{187}\sqrt{51e^{34}}$	$(\frac{36}{187}, -\frac{24}{187}, -\frac{18}{187}, -\frac{18}{187}, \frac{12}{187}, \frac{48}{187}, -\frac{12}{187}, \frac{84}{187}, -\frac{36}{187})$ $+\frac{12}{187}\sqrt{154e^1} \otimes e_9$	{13458, 158, 379}
9542:2	$0, 0, 0, 0, \frac{144}{4507}\sqrt{154e^{12}}, \frac{288}{4507}\sqrt{17e^{15}}, \frac{216}{4507}\sqrt{177e^{25}},$ $\frac{72}{4507}\sqrt{1297e^{16}}, \frac{72}{4507}\sqrt{1362e^{27}} + \frac{72}{4507}\sqrt{195e^{34}}$	$(-\frac{864}{4507}, \frac{936}{4507}, \frac{972}{4507}, \frac{972}{4507}, \frac{72}{4507}, -\frac{792}{4507}, \frac{1008}{4507}, -\frac{1656}{4507}, \frac{1944}{4507})$ $+\frac{72}{4507}\sqrt{3730e^2} \otimes e_8$	{23459, 259, 368}
9542:2	$0, 0, 0, 0, \frac{12}{223}\sqrt{34e^{12}}, \frac{12}{223}\sqrt{66e^{15}}, \frac{12}{223}\sqrt{11e^{25}}, \frac{12}{223}\sqrt{51e^{16}},$ $\frac{12}{223}\sqrt{34e^{27}} + \frac{12}{223}\sqrt{51e^{34}}$	$(\frac{36}{223}, -\frac{24}{223}, \frac{18}{223}, -\frac{54}{223}, \frac{12}{223}, \frac{48}{223}, -\frac{12}{223}, \frac{84}{223}, -\frac{36}{223})$ $+\frac{12}{223}\sqrt{154e^1} \otimes e_9 + \frac{72}{223}e^3 \otimes e_4$	{379, 479}
9542:2	$0, 0, 0, 0, \frac{144}{5803}\sqrt{154e^{12}}, \frac{288}{5803}\sqrt{17e^{15}}, \frac{216}{5803}\sqrt{177e^{25}},$ $\frac{72}{5803}\sqrt{1297e^{16}}, \frac{72}{5803}\sqrt{1362e^{27}} + \frac{72}{5803}\sqrt{195e^{34}}$	$(-\frac{864}{5803}, \frac{936}{5803}, \frac{972}{5803}, -\frac{324}{5803}, \frac{72}{5803}, -\frac{792}{5803}, \frac{144}{5803}, -\frac{1656}{5803}, \frac{1944}{5803})$ $+\frac{2592}{5803}e^3 \otimes e_4 + \frac{72}{5803}\sqrt{3730e^2} \otimes e_8$	{368, 468}
9542:2	$0, 0, 0, 0, \frac{2}{73}\sqrt{103e^{12}}, \frac{2}{219}\sqrt{1030e^{15}}, \frac{2}{219}\sqrt{1030e^{25}}, \frac{4}{219}\sqrt{1957e^{16}},$ $\frac{2}{73}\sqrt{103e^{27}} + \frac{4}{219}\sqrt{1957e^{34}}$	$(-\frac{37}{219}, \frac{16}{73}, \frac{143}{219}, -\frac{12}{73}, \frac{11}{219}, -\frac{26}{219}, \frac{59}{219}, -\frac{21}{73}, \frac{107}{219})$ $+\frac{2}{219}\sqrt{18437e^3} \otimes e_8$	{1258, 1369, 2379, 5678}
9542:2	$0, 0, 0, 0, \frac{6}{257}\sqrt{23e^{12}}, \frac{12}{257}\sqrt{15e^{15}}, \frac{6}{257}\sqrt{10e^{25}}, \frac{6}{257}\sqrt{78e^{16}},$ $\frac{6}{257}\sqrt{23e^{27}} + \frac{6}{257}\sqrt{78e^{34}}$	$(\frac{9}{257}, -\frac{6}{257}, \frac{39}{257}, -\frac{48}{257}, \frac{3}{257}, \frac{12}{257}, -\frac{3}{257}, \frac{21}{257}, -\frac{9}{257})$ $+\frac{12}{257}\sqrt{35e^1} \otimes e_9 + \frac{6}{257}\sqrt{87e^3} \otimes e_8$	{158, 379}
9542:2	$0, 0, 0, 0, \frac{4}{211}\sqrt{334e^{12}}, \frac{2}{211}\sqrt{1837e^{15}}, \frac{2}{211}\sqrt{1837e^{25}}, \frac{4}{211}\sqrt{501e^{16}},$ $\frac{4}{211}\sqrt{334e^{27}} + \frac{4}{211}\sqrt{501e^{34}}$	$(\frac{13}{211}, \frac{17}{211}, \frac{199}{211}, -\frac{135}{211}, \frac{30}{211}, \frac{43}{211}, \frac{47}{211}, \frac{56}{211}, \frac{64}{211})$ $+\frac{334}{211}e^3 \otimes e_4$	{135789, 145789, 235689, 245689}
9542:3	$0, 0, 0, 0, \frac{49}{8961}\sqrt{3166e^{12}}, \frac{147}{2987}\sqrt{78e^{15}}, \frac{49}{8961}\sqrt{1534e^{25}},$ $\frac{49}{8961}\sqrt{6662e^{16}}, \frac{49}{8961}\sqrt{5230e^{13}} + \frac{98}{2987}\sqrt{35e^{27}}$	$(\frac{637}{8961}, -\frac{196}{2987}, -\frac{588}{2987}, \frac{3724}{8961}, \frac{49}{8961}, \frac{686}{8961}, -\frac{539}{8961}, \frac{441}{2987}, -\frac{1127}{8961})$ $+\frac{49}{8961}\sqrt{10474e^1} \otimes e_3 + \frac{98}{8961}\sqrt{1433e^4} \otimes e_8$	{158, 235678}
9542:3	$0, 0, 0, 0, \frac{9}{449}\sqrt{190e^{12}}, \frac{9}{449}\sqrt{130e^{15}}, \frac{27}{898}\sqrt{66e^{25}}, \frac{9}{898}\sqrt{1090e^{16}},$ $\frac{9}{898}\sqrt{438e^{13}} + \frac{9}{449}\sqrt{165e^{27}}$	$(-\frac{27}{449}, \frac{36}{449}, \frac{108}{449}, -\frac{108}{449}, \frac{9}{449}, -\frac{18}{449}, \frac{45}{449}, -\frac{45}{449}, \frac{81}{449})$ $+\frac{9}{449}\sqrt{469e^2} \otimes e_8 + \frac{9}{898}\sqrt{1290e^1} \otimes e_4$	{1267, 135789}
9542:3	$0, 0, 0, 0, \frac{95}{669}\sqrt{6e^{12}}, \frac{76}{2007}\sqrt{39e^{15}}, \frac{76}{3007}\sqrt{177e^{25}}, \frac{38}{669}\sqrt{35e^{16}},$ $\frac{19}{2007}\sqrt{582e^{13}} + \frac{38}{669}\sqrt{55e^{27}}$	$(-\frac{19}{223}, \frac{95}{669}, \frac{95}{223}, -\frac{266}{669}, \frac{38}{669}, -\frac{19}{669}, \frac{133}{669}, -\frac{76}{669}, \frac{76}{223})$ $+\frac{19}{2007}\sqrt{4170e^3} \otimes e_8 + \frac{19}{2007}\sqrt{6330e^2} \otimes e_4$	{2359, 468}
9542:3	$0, 0, 0, 0, \frac{7}{282}\sqrt{82e^{12}}, \frac{7}{141}\sqrt{39e^{15}}, \frac{7}{282}\sqrt{13e^{25}}, \frac{7}{282}\sqrt{273e^{16}},$ $\frac{7}{282}\sqrt{227e^{13}} + \frac{7}{141}\sqrt{e^{27}}$	$(-\frac{7}{141}, \frac{14}{141}, \frac{14}{47}, -\frac{56}{141}, \frac{7}{141}, 0, \frac{7}{47}, -\frac{7}{141}, \frac{35}{141})$ $+\frac{7}{282}\sqrt{446e^3} \otimes e_8 + \frac{7}{282}\sqrt{565e^1} \otimes e_4$	{1236, 1589}
9542:3	$0, 0, 0, 0, \frac{1}{1585}\sqrt{884766e^{12}}, \frac{2}{1585}\sqrt{343487e^{15}}, \frac{1}{1585}\sqrt{323178e^{25}},$ $\frac{2}{317}\sqrt{9713e^{16}}, \frac{2}{1585}\sqrt{249889e^{13}} + \frac{14}{1585}\sqrt{883e^{27}}$	$(\frac{322}{1585}, -\frac{187}{1585}, -\frac{561}{1585}, \frac{229}{1585}, \frac{27}{317}, \frac{457}{1585}, -\frac{52}{1585}, \frac{779}{1585}, -\frac{239}{1585})$ $+\frac{2}{1585}\sqrt{598674e^1} \otimes e_3$	{1458, 158, 2345678, 235678}
9542:3	$0, 0, 0, 0, \frac{2}{3185}\sqrt{452067e^{12}}, \frac{2}{3185}\sqrt{567530e^{15}}, \frac{2}{3185}\sqrt{199614e^{25}},$ $\frac{8}{3185}\sqrt{154603e^{16}}, \frac{4}{3185}\sqrt{183958e^{13}} + \frac{2}{3185}\sqrt{784757e^{27}}$	$(-\frac{27}{245}, \frac{324}{3185}, \frac{972}{3185}, 1, -\frac{27}{3185}, -\frac{54}{455}, \frac{297}{3185}, -\frac{729}{3185}, \frac{621}{3185})$ $+\frac{2}{3185}\sqrt{5066673e^4} \otimes e_8$	{123589, 146, 2347, 56789}
9542:3	$0, 0, 0, 0, \frac{2}{3269}\sqrt{1137345e^{12}}, \frac{2}{3269}\sqrt{53449e^{15}}, \frac{8}{3269}\sqrt{85767e^{25}},$ $\frac{4}{3269}\sqrt{6215e^{16}}, \frac{2}{3269}\sqrt{523303e^{13}} + \frac{10}{3269}\sqrt{45991e^{27}}$	$(\frac{83}{3269}, \frac{325}{3269}, \frac{975}{3269}, -\frac{2161}{3269}, \frac{408}{3269}, \frac{491}{3269}, \frac{733}{3269}, \frac{82}{3269}, \frac{1058}{3269})$ $+\frac{2}{3269}\sqrt{3374745e^2} \otimes e_4$	{1278, 1345679, 259, 3468}
9542:3	$0, 0, 0, 0, \frac{4}{223}\sqrt{510e^{12}}, \frac{2}{223}\sqrt{357e^{15}}, \frac{12}{223}\sqrt{102e^{25}}, \frac{8}{223}\sqrt{255e^{16}},$ $\frac{6}{223}\sqrt{323e^{13}} + \frac{8}{223}\sqrt{255e^{27}}$	$(-\frac{34}{223}, \frac{31}{223}, \frac{93}{223}, \frac{36}{223}, -\frac{3}{223}, -\frac{37}{223}, \frac{28}{223}, -\frac{71}{223}, \frac{59}{223})$ $+\frac{34}{223}\sqrt{33e^2} \otimes e_8$	{12467, 1267, 1345789, 135789}
9542:3	$0, 0, 0, 0, \frac{4}{199}\sqrt{246e^{12}}, \frac{10}{199}\sqrt{123e^{15}}, \frac{2}{199}\sqrt{2337e^{25}}, \frac{8}{199}\sqrt{123e^{16}},$ $\frac{4}{199}\sqrt{2706e^{13}} + \frac{8}{199}\sqrt{123e^{27}}$	$(-\frac{7}{199}, \frac{37}{199}, \frac{111}{199}, -\frac{135}{199}, \frac{30}{199}, \frac{23}{199}, \frac{67}{199}, \frac{16}{199}, \frac{104}{199})$ $+\frac{2}{199}\sqrt{20541e^3} \otimes e_4$	{123568, 149, 23679, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9542:3	$0, 0, 0, 0, \frac{120}{3347}\sqrt{115}e^{12}, \frac{40}{3347}\sqrt{902}e^{15}, \frac{240}{3347}\sqrt{7}e^{25},$ $\frac{40}{3347}\sqrt{641}e^{16}, \frac{40}{3347}\sqrt{910}e^{13} + \frac{40}{3347}\sqrt{511}e^{27}$	$(\frac{380}{3347}, -\frac{140}{3347}, -\frac{420}{3347}, -\frac{940}{3347}, \frac{240}{3347}, \frac{620}{3347}, \frac{100}{3347}, \frac{1000}{3347}, -\frac{40}{3347})$ $+\frac{40}{3347}\sqrt{1299}e^2 \otimes e_4 + \frac{40}{3347}\sqrt{1689}e^1 \otimes e_3$	{1267, 34}
9542:3	$0, 0, 0, 0, \frac{2}{625}\sqrt{29145}e^{12}, \frac{2}{625}\sqrt{15745}e^{15}, \frac{2}{625}\sqrt{17085}e^{25}, \frac{2}{625}\sqrt{335}e^{16},$ $\frac{28}{625}\sqrt{335}e^{13} + \frac{4}{625}\sqrt{14405}e^{27}$	$(\frac{9}{125}, -\frac{6}{125}, -\frac{18}{125}, 1, \frac{3}{125}, \frac{12}{125}, -\frac{3}{125}, \frac{21}{125}, -\frac{9}{125})$ $+\frac{2}{625}\sqrt{173865}e^4 \otimes e_9$	{125689, 134, 2467, 35789}
9542:3	$0, 0, 0, 0, \frac{18}{269}\sqrt{10}e^{12}, \frac{18}{269}\sqrt{2}e^{15}, \frac{18}{269}\sqrt{33}e^{25}, \frac{9}{269}\sqrt{130}e^{16},$ $\frac{9}{269}\sqrt{42}e^{13} + \frac{24}{269}\sqrt{5}e^{27}$	$(-\frac{27}{269}, \frac{18}{269}, \frac{54}{269}, \frac{108}{269}, -\frac{9}{269}, -\frac{36}{269}, \frac{9}{269}, -\frac{63}{269}, \frac{27}{269})$ $+\frac{45}{269}\sqrt{6}e^4 \otimes e_9 + \frac{9}{269}\sqrt{322}e^2 \otimes e_8$	{259, 3468}
9542:3	$0, 0, 0, 0, \frac{4}{821}\sqrt{16269}e^{12}, \frac{2}{821}\sqrt{83897}e^{15}, \frac{9}{821}\sqrt{638}e^{25}, \frac{11}{821}\sqrt{1914}e^{16},$ $\frac{29}{821}\sqrt{110}e^{13} + \frac{6}{821}\sqrt{1595}e^{27}$	$(\frac{100}{821}, \frac{23}{821}, \frac{69}{821}, -\frac{538}{821}, \frac{123}{821}, \frac{223}{821}, \frac{146}{821}, \frac{323}{821}, \frac{169}{821})$ $+\frac{3}{821}\sqrt{96338}e^1 \otimes e_4$	{1236, 1589, 23456789, 47}
9542:3	$0, 0, 0, 0, \frac{2}{625}\sqrt{29145}e^{12}, \frac{2}{625}\sqrt{15745}e^{15}, \frac{2}{625}\sqrt{17085}e^{25},$ $\frac{4}{625}\sqrt{14405}e^{16}, \frac{28}{625}\sqrt{335}e^{13} + \frac{2}{625}\sqrt{335}e^{27}$	$(-\frac{128}{625}, \frac{143}{625}, \frac{429}{625}, \frac{106}{625}, \frac{3}{625}, -\frac{113}{625}, \frac{158}{625}, -\frac{241}{625}, \frac{301}{625})$ $+\frac{2}{625}\sqrt{173865}e^3 \otimes e_8$	{123456, 12356, 1489, 189}
9542:3	$0, 0, 0, 0, \frac{9}{7889}\sqrt{3970}e^{12}, \frac{9}{7889}\sqrt{3958}e^{15}, \frac{45}{7889}\sqrt{66}e^{25},$ $\frac{45}{7889}\sqrt{226}e^{16}, \frac{9}{7889}\sqrt{5142}e^{13} + \frac{36}{7889}\sqrt{210}e^{27}$	$(-\frac{27}{7889}, -\frac{36}{7889}, -\frac{108}{7889}, \frac{108}{7889}, -\frac{9}{7889}, -\frac{90}{7889}, \frac{99}{7889}, -\frac{117}{7889}, -\frac{135}{7889})$ $+\frac{774}{7889}e^2 \otimes e_8 + \frac{9}{7889}\sqrt{6870}e^1 \otimes e_3$	{12467, 1267}
9542:3	$0, 0, 0, 0, \frac{9}{805}\sqrt{1670}e^{12}, \frac{9}{805}\sqrt{2870}e^{15}, \frac{9}{805}\sqrt{610}e^{25}, \frac{9}{805}\sqrt{2110}e^{16},$ $\frac{9}{805}\sqrt{1610}e^{13} + \frac{36}{805}\sqrt{55}e^{27}$	$(\frac{27}{161}, -\frac{18}{161}, -\frac{54}{161}, \frac{54}{161}, \frac{9}{161}, \frac{36}{161}, -\frac{9}{161}, \frac{9}{23}, -\frac{27}{161})$ $+\frac{18}{805}\sqrt{415}e^4 \otimes e_9 + \frac{9}{161}\sqrt{214}e^1 \otimes e_3$	{1458, 2345678}
9542:3	$0, 0, 0, 0, \frac{13}{127}\sqrt{14}e^{12}, \frac{52}{381}\sqrt{5}e^{15}, \frac{65}{381}\sqrt{2}e^{25}, \frac{13}{381}\sqrt{94}e^{16},$ $\frac{26}{381}\sqrt{65}e^{13} + \frac{13}{381}\sqrt{94}e^{27}$	$(-\frac{13}{127}, \frac{26}{381}, \frac{26}{127}, \frac{208}{381}, -\frac{13}{381}, -\frac{52}{381}, \frac{13}{381}, -\frac{91}{381}, \frac{13}{127})$ $+\frac{13}{381}\sqrt{346}e^3 \otimes e_8 + \frac{13}{381}\sqrt{346}e^4 \otimes e_9$	{24678, 3579}
9542:4	$0, 0, 0, 0, \frac{36}{133}\sqrt{2}e^{12}, \frac{18}{133}\sqrt{13}e^{15}, \frac{18}{133}\sqrt{19}e^{25},$ $\frac{36}{133}\sqrt{3}e^{16} + \frac{144}{133}e^{23}, \frac{36}{133}\sqrt{2}e^{27} + \frac{36}{133}\sqrt{3}e^{34}$	$(\frac{27}{133}, -\frac{9}{133}, \frac{81}{133}, -\frac{81}{133}, \frac{18}{133}, \frac{45}{133}, \frac{9}{133}, \frac{72}{133}, 0)$ $+\frac{18}{133}\sqrt{113}e^3 \otimes e_4$	{13678, 248}
9542:4	$0, 0, 0, 0, \frac{12}{157}\sqrt{10}e^{12}, \frac{24}{157}\sqrt{3}e^{15}, \frac{6}{157}\sqrt{13}e^{25},$ $\frac{12}{157}\sqrt{15}e^{16} + \frac{18}{157}\sqrt{7}e^{23}, \frac{12}{157}\sqrt{10}e^{27} + \frac{12}{157}\sqrt{15}e^{34}$	$(\frac{9}{157}, -\frac{6}{157}, \frac{27}{157}, -\frac{36}{157}, \frac{3}{157}, \frac{12}{157}, -\frac{3}{157}, \frac{21}{157}, -\frac{9}{157})$ $+\frac{6}{157}\sqrt{133}e^1 \otimes e_9$	{1267, 235689}
9542:4	$0, 0, 0, 0, \frac{32}{147}\sqrt{3}e^{12}, \frac{16}{147}\sqrt{10}e^{15}, \frac{16}{147}\sqrt{5}e^{25},$ $\frac{16}{147}\sqrt{43}e^{16} + \frac{147}{147}\sqrt{30}e^{23}, \frac{32}{147}\sqrt{3}e^{27} + \frac{16}{147}\sqrt{43}e^{34}$	$(-\frac{16}{147}, \frac{8}{49}, -\frac{16}{49}, \frac{104}{147}, \frac{8}{147}, -\frac{8}{147}, \frac{32}{147}, -\frac{8}{49}, \frac{8}{21})$ $+\frac{16}{147}\sqrt{122}e^4 \otimes e_8$	{234, 35689}
9542:6	$0, 0, 0, 0, \frac{2}{15}\sqrt{22}e^{12}, \frac{1}{45}\sqrt{858}e^{15}, \frac{1}{45}\sqrt{33}e^{25},$ $\frac{1}{45}\sqrt{759}e^{16} + \frac{1}{45}\sqrt{462}e^{23}, \frac{11}{45}\sqrt{3}e^{13} + \frac{1}{45}\sqrt{66}e^{27}$	$(\frac{1}{15}, \frac{1}{15}, \frac{1}{5}, -\frac{2}{3}, \frac{2}{15}, \frac{1}{5}, \frac{1}{5}, \frac{4}{15}, \frac{4}{15})$ $+\frac{1}{3}\sqrt{11}e^1 \otimes e_4$	{12679, 349}
9542:6	$0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{2}{5}\sqrt{2}e^{15}, \frac{1}{5}\sqrt{6}e^{25}, \frac{4}{5}e^{16} + \frac{3}{5}\sqrt{2}e^{23},$ $\frac{1}{5}\sqrt{10}e^{13} + \frac{1}{5}\sqrt{2}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{1}{5}\sqrt{42}e^4 \otimes e_8$	{12578, 3568}
9542:6	$0, 0, 0, 0, \frac{6}{73}\sqrt{26}e^{12}, \frac{18}{73}\sqrt{2}e^{15}, \frac{18}{73}\sqrt{2}e^{25},$ $\frac{12}{73}\sqrt{13}e^{16} + \frac{6}{73}\sqrt{110}e^{23}, \frac{6}{73}\sqrt{110}e^{13} + \frac{12}{73}\sqrt{13}e^{27}$	$(\frac{6}{73}, \frac{6}{73}, \frac{18}{73}, -\frac{54}{73}, \frac{12}{73}, \frac{18}{73}, \frac{18}{73}, \frac{24}{73}, \frac{24}{73})$ $+\frac{6}{73}\sqrt{254}e^3 \otimes e_4$	{12456789, 3589}
9542:7	$0, 0, 0, 0, \frac{60}{103}e^{12}, \frac{36}{103}e^{15}, \frac{36}{103}e^{25}, \frac{24}{103}\sqrt{5}e^{16} + \frac{84}{103}e^{23},$ $\frac{84}{103}e^{14} + \frac{12}{103}\sqrt{10}e^{27}$	$(\frac{18}{103}, -\frac{12}{103}, \frac{54}{103}, -\frac{36}{103}, \frac{6}{103}, \frac{24}{103}, -\frac{6}{103}, \frac{42}{103}, -\frac{18}{103})$ $+\frac{36}{103}\sqrt{10}e^3 \otimes e_9$	{179, 358}
9542:7	$0, 0, 0, 0, \frac{48}{2683}\sqrt{995}e^{12}, \frac{1008}{2683}\sqrt{3}e^{15}, \frac{432}{2683}e^{25},$ $\frac{528}{2683}\sqrt{10}e^{16} + \frac{48}{2683}\sqrt{737}e^{23}, \frac{48}{2683}\sqrt{1205}e^{14} + \frac{48}{2683}\sqrt{430}e^{27}$	$(\frac{360}{2683}, -\frac{264}{2683}, \frac{1080}{2683}, -\frac{792}{2683}, \frac{96}{2683}, \frac{456}{2683}, -\frac{168}{2683}, \frac{816}{2683}, -\frac{432}{2683})$ $+\frac{288}{2683}\sqrt{65}e^1 \otimes e_4$	{158, 2345678}
9531:1	$0, 0, 0, 0, \frac{16}{447}\sqrt{15}e^{12}, \frac{8}{447}\sqrt{745}e^{34}, \frac{16}{447}\sqrt{15}e^{15}, \frac{8}{447}\sqrt{435}e^{25},$ $\frac{8}{447}\sqrt{435}e^{17}$	$(-\frac{4}{149}, -\frac{8}{149}, \frac{100}{447}, \frac{100}{447}, -\frac{12}{149}, \frac{200}{447}, -\frac{16}{149}, -\frac{20}{149}, -\frac{20}{149})$ $+\frac{8}{149}\sqrt{110}e^3 \otimes e_8 + \frac{8}{149}\sqrt{110}e^4 \otimes e_9$	{123457, 1369, 2789, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:1	$0, 0, 0, 0, \frac{4}{1191}\sqrt{1794}e^{12}, \frac{4}{1191}\sqrt{5161}e^{34}, \frac{4}{397}\sqrt{390}e^{15}, \frac{4}{397}\sqrt{65}e^{25},$ $\frac{52}{397}\sqrt{3}e^{17}$	$(\frac{2}{397}, \frac{14}{397}, \frac{164}{1191}, -\frac{262}{1191}, \frac{16}{397}, -\frac{98}{1191}, \frac{18}{397}, \frac{30}{397}, \frac{20}{397})$ $+\frac{4}{1191}\sqrt{5538}e^3 \otimes e_9 + \frac{4}{397}\sqrt{910}e^1 \otimes e_6$	{12347, 159, 2456789, 368}
9531:1	$0, 0, 0, 0, \frac{2}{389}\sqrt{2882}e^{12}, \frac{2}{1167}\sqrt{50959}e^{34}, \frac{2}{1167}\sqrt{30261}e^{15},$ $\frac{2}{389}\sqrt{1441}e^{25}, \frac{2}{389}\sqrt{2882}e^{17}$	$(\frac{55}{389}, -\frac{48}{389}, \frac{139}{1167}, -\frac{236}{1167}, \frac{7}{389}, -\frac{97}{1167}, \frac{62}{389}, -\frac{41}{389}, \frac{117}{389})$ $+\frac{10}{1167}\sqrt{1965}e^3 \otimes e_8 + \frac{2}{389}\sqrt{9301}e^1 \otimes e_6$	{1278, 1589, 235679, 36}
9531:1	$0, 0, 0, 0, \frac{2}{123}\sqrt{1653}e^{12}, \frac{2}{123}\sqrt{1558}e^{34}, \frac{2}{123}\sqrt{285}e^{15}, \frac{2}{123}\sqrt{1653}e^{25},$ $\frac{2}{123}\sqrt{285}e^{17}$	$(-\frac{5}{82}, \frac{12}{41}, -\frac{20}{123}, -\frac{20}{123}, \frac{19}{82}, -\frac{40}{123}, \frac{7}{41}, \frac{43}{82}, \frac{9}{82})$ $+\frac{4}{123}\sqrt{969}e^2 \otimes e_6$	{12348, 128, 1356789, 23459, 259, 367}
9531:1	$0, 0, 0, 0, \frac{1}{18}\sqrt{34}e^{12}, \frac{1}{9}\sqrt{51}e^{34}, \frac{1}{54}\sqrt{255}e^{15}, \frac{1}{54}\sqrt{255}e^{25},$ $\frac{1}{54}\sqrt{1938}e^{17}$	$(-\frac{17}{108}, \frac{7}{36}, \frac{2}{3}, -\frac{4}{27}, \frac{1}{27}, \frac{14}{27}, -\frac{13}{108}, \frac{25}{108}, -\frac{5}{18})$ $+\frac{1}{27}\sqrt{1122}e^3 \otimes e_9$	{124569, 1259, 1347, 1367, 2348, 2368, 456789, 5789}
9531:1	$0, 0, 0, 0, \frac{9}{626}\sqrt{313}e^{12}, \frac{9}{313}\sqrt{66}e^{34}, \frac{9}{313}\sqrt{55}e^{15}, \frac{9}{313}\sqrt{33}e^{25},$ $\frac{9}{626}\sqrt{313}e^{17}$	$(-\frac{27}{626}, \frac{171}{1252}, -\frac{27}{313}, -\frac{27}{313}, \frac{117}{1252}, -\frac{54}{313}, \frac{63}{1252}, \frac{72}{313}, \frac{9}{1252})$ $+\frac{9}{313}\sqrt{115}e^2 \otimes e_9 + \frac{9}{313}\sqrt{159}e^1 \otimes e_6$	{123478, 1278, 134589, 1589}
9531:1	$0, 0, 0, 0, \frac{6}{1375}\sqrt{10621}e^{12}, \frac{12}{1375}\sqrt{645}e^{34}, \frac{12}{1375}\sqrt{602}e^{15},$ $\frac{12}{1375}\sqrt{3741}e^{25}, \frac{6}{1375}\sqrt{10621}e^{17}$	$(-\frac{258}{1375}, \frac{393}{1375}, \frac{507}{1375}, -\frac{267}{1375}, \frac{27}{275}, \frac{48}{275}, -\frac{123}{1375}, \frac{125}{48}, -\frac{381}{1375})$ $+\frac{12}{1375}\sqrt{8686}e^2 \otimes e_9 + \frac{774}{1375}e^3 \otimes e_4$	{2356, 2456, 3679, 4679}
9531:1	$0, 0, 0, 0, \frac{1}{102}\sqrt{2397}e^{12}, \frac{1}{51}\sqrt{799}e^{34}, \frac{1}{17}\sqrt{94}e^{15}, \frac{1}{51}\sqrt{141}e^{25},$ $\frac{1}{102}\sqrt{2397}e^{17}$	$(\frac{5}{34}, -\frac{1}{68}, -\frac{8}{51}, -\frac{8}{51}, \frac{9}{68}, -\frac{16}{51}, \frac{19}{68}, \frac{2}{17}, \frac{29}{68})$ $+\frac{1}{51}\sqrt{1974}e^1 \otimes e_6$	{12347, 127, 13459, 159, 2356789, 368}
9531:1	$0, 0, 0, 0, \frac{3}{494}\sqrt{10621}e^{12}, \frac{3}{247}\sqrt{645}e^{34}, \frac{3}{247}\sqrt{602}e^{15}, \frac{3}{247}\sqrt{3741}e^{25},$ $\frac{3}{494}\sqrt{10621}e^{17}$	$(-\frac{129}{494}, \frac{393}{988}, \frac{30}{247}, \frac{30}{247}, \frac{135}{988}, \frac{60}{247}, -\frac{123}{988}, \frac{132}{247}, -\frac{381}{988})$ $+\frac{3}{247}\sqrt{8686}e^2 \otimes e_9$	{2345, 2356, 25, 3479, 3679, 79}
9531:1	$0, 0, 0, 0, \frac{1}{29}\sqrt{138}e^{12}, \frac{2}{29}\sqrt{46}e^{34}, \frac{1}{29}\sqrt{138}e^{15}, \frac{1}{29}\sqrt{138}e^{25},$ $\frac{1}{29}\sqrt{138}e^{17}$	$(\frac{3}{58}, \frac{3}{29}, \frac{27}{29}, -\frac{19}{29}, \frac{9}{58}, \frac{8}{29}, \frac{6}{29}, \frac{15}{58}, \frac{15}{58})$ $+\frac{46}{29}e^3 \otimes e_4$	{123678, 124678, 135689, 145689, 235679, 245679, 36, 46}
9531:1	$0, 0, 0, 0, \frac{160}{6459}\sqrt{69}e^{12}, \frac{16}{6459}\sqrt{10765}e^{34}, \frac{80}{6459}\sqrt{114}e^{15},$ $\frac{16}{6459}\sqrt{11715}e^{25}, \frac{16}{6459}\sqrt{1245}e^{17}$	$(\frac{24}{2153}, \frac{56}{2153}, \frac{1048}{6459}, -\frac{1520}{6459}, \frac{80}{2153}, -\frac{472}{6459}, \frac{104}{2153}, \frac{136}{2153}, \frac{128}{2153})$ $+\frac{16}{2153}\sqrt{1810}e^2 \otimes e_6 + \frac{32}{6459}\sqrt{3210}e^3 \otimes e_8$	{128, 1456789, 23459, 367}
9531:1	$0, 0, 0, 0, \frac{2}{477}\sqrt{4830}e^{12}, \frac{4}{159}\sqrt{161}e^{34}, \frac{2}{159}\sqrt{299}e^{15}, \frac{4}{477}\sqrt{2967}e^{25},$ $\frac{2}{477}\sqrt{4830}e^{17}$	$(-\frac{46}{477}, \frac{38}{477}, \frac{56}{159}, -\frac{29}{477}, -\frac{8}{477}, \frac{139}{477}, -\frac{6}{53}, \frac{10}{159}, -\frac{100}{477})$ $+\frac{10}{159}\sqrt{69}e^2 \otimes e_9 + \frac{2}{477}\sqrt{13593}e^3 \otimes e_8$	{2345, 2356, 3479, 3679}
9531:1	$0, 0, 0, 0, \frac{2}{251}\sqrt{2397}e^{12}, \frac{4}{251}\sqrt{799}e^{34}, \frac{12}{251}\sqrt{94}e^{15}, \frac{4}{251}\sqrt{141}e^{25},$ $\frac{2}{251}\sqrt{2397}e^{17}$	$(\frac{30}{251}, -\frac{3}{251}, \frac{15}{251}, -\frac{79}{251}, \frac{27}{251}, -\frac{64}{251}, \frac{57}{251}, \frac{24}{251}, \frac{87}{251})$ $+\frac{4}{251}\sqrt{1974}e^1 \otimes e_6 + \frac{94}{251}e^3 \otimes e_4$	{2356789, 2456789, 368, 468}
9531:1	$0, 0, 0, 0, \frac{1}{54}\sqrt{255}e^{12}, \frac{1}{9}\sqrt{51}e^{34}, \frac{1}{18}\sqrt{34}e^{15}, \frac{1}{54}\sqrt{1938}e^{25},$ $\frac{1}{54}\sqrt{255}e^{17}$	$(\frac{4}{27}, -\frac{23}{108}, \frac{2}{3}, -\frac{4}{27}, -\frac{7}{108}, \frac{14}{27}, \frac{1}{12}, -\frac{5}{18}, \frac{25}{108})$ $+\frac{1}{27}\sqrt{1122}e^3 \otimes e_8$	{124689, 1289, 145678, 1578, 2345, 2356, 3479, 3679}
9531:1	$0, 0, 0, 0, \frac{32}{4803}\sqrt{2343}e^{12}, \frac{16}{4803}\sqrt{17611}e^{34}, \frac{48}{1601}\sqrt{22}e^{15},$ $\frac{16}{1601}\sqrt{1309}e^{25}, \frac{176}{1601}\sqrt{5}e^{17}$	$(-\frac{200}{1601}, \frac{376}{1601}, \frac{736}{4803}, -\frac{1016}{4803}, \frac{176}{1601}, -\frac{280}{4803}, -\frac{24}{1601}, \frac{552}{1601}, -\frac{224}{1601})$ $+\frac{16}{1601}\sqrt{3014}e^2 \otimes e_6 + \frac{32}{4803}\sqrt{4818}e^3 \otimes e_9$	{1289, 135678, 2345, 4679}
9531:1	$0, 0, 0, 0, \frac{2}{161}\sqrt{1653}e^{12}, \frac{2}{161}\sqrt{1558}e^{34}, \frac{2}{161}\sqrt{285}e^{15}, \frac{2}{161}\sqrt{1653}e^{25},$ $\frac{2}{161}\sqrt{285}e^{17}$	$(-\frac{15}{322}, \frac{36}{161}, \frac{18}{161}, -\frac{58}{161}, \frac{57}{322}, -\frac{40}{161}, \frac{3}{23}, \frac{129}{322}, \frac{27}{322})$ $+\frac{4}{161}\sqrt{969}e^2 \otimes e_6 + \frac{76}{161}e^3 \otimes e_4$	{1356789, 1456789, 367, 467}
9531:2	$0, 0, 0, 0, \frac{2}{165}\sqrt{1577}e^{12}, \frac{2}{165}\sqrt{1501}e^{13}, \frac{2}{165}\sqrt{2090}e^{15}, \frac{2}{165}\sqrt{38}e^{25},$ $\frac{2}{165}\sqrt{1577}e^{17}$	$(\frac{28}{165}, -\frac{23}{165}, -\frac{16}{55}, \frac{58}{165}, \frac{1}{33}, -\frac{4}{33}, \frac{1}{5}, -\frac{6}{55}, \frac{61}{165})$ $+\frac{2}{165}\sqrt{1463}e^4 \otimes e_8 + \frac{2}{165}\sqrt{4066}e^1 \otimes e_3$	{1278, 1589, 234579, 34}
9531:2	$0, 0, 0, 0, \frac{12}{71}\sqrt{15}e^{12}, \frac{18}{71}\sqrt{3}e^{13}, \frac{6}{71}\sqrt{3}e^{15}, \frac{36}{71}\sqrt{2}e^{25},$ $\frac{12}{71}\sqrt{15}e^{17}$	$(-\frac{18}{71}, \frac{27}{71}, \frac{21}{71}, \frac{12}{71}, \frac{9}{71}, \frac{3}{71}, -\frac{9}{71}, \frac{36}{71}, -\frac{27}{71})$ $+\frac{6}{71}\sqrt{177}e^2 \otimes e_9$	{2345, 235, 2456, 256, 3479, 379, 4679, 679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:2	$0, 0, 0, 0, \frac{28}{195}\sqrt{7}e^{12}, \frac{2}{195}\sqrt{1281}e^{13}, \frac{2}{195}\sqrt{182}e^{15}, \frac{2}{195}\sqrt{1015}e^{25},$ $\frac{2}{65}\sqrt{7}e^{17}$	$(-\frac{2}{195}, \frac{2}{13}, -\frac{8}{65}, -\frac{58}{195}, \frac{28}{195}, -\frac{2}{15}, \frac{2}{15}, \frac{58}{195}, \frac{8}{65})$ $+\frac{2}{195}\sqrt{2233}e^1 \otimes e_4 + \frac{2}{195}\sqrt{2618}e^2 \otimes e_6$	{12378, 15689, 24579, 346}
9531:2	$0, 0, 0, 0, \frac{74}{1315}\sqrt{57}e^{12}, \frac{1}{1315}\sqrt{437266}e^{13}, \frac{2}{1315}\sqrt{62567}e^{15},$ $\frac{2}{1315}\sqrt{134273}e^{25}, \frac{3}{1315}\sqrt{1406}e^{17}$	$(-\frac{187}{1315}, \frac{364}{1315}, -\frac{152}{1315}, \frac{506}{1315}, \frac{177}{1315}, -\frac{339}{1315}, -\frac{2}{263}, \frac{541}{1315}, -\frac{197}{1315})$ $+\frac{1}{1315}\sqrt{1137454}e^2 \otimes e_6 + \frac{1}{1315}\sqrt{487882}e^4 \otimes e_9$	{12348, 156789, 259, 3467}
9531:2	$0, 0, 0, 0, \frac{10}{277}\sqrt{526}e^{12}, \frac{4}{277}\sqrt{263}e^{13}, \frac{2}{277}\sqrt{1841}e^{15}, \frac{1}{277}\sqrt{51022}e^{25},$ $\frac{1}{277}\sqrt{7890}e^{17}$	$(-\frac{16}{277}, \frac{80}{277}, \frac{55}{277}, -\frac{183}{277}, \frac{64}{277}, \frac{39}{277}, \frac{48}{277}, \frac{144}{277}, \frac{32}{277})$ $+\frac{2}{277}\sqrt{30245}e^2 \otimes e_4$	{12368, 128, 13456789, 145789, 2359, 2569, 347, 467}
9531:2	$0, 0, 0, 0, \frac{3}{16}\sqrt{5}e^{12}, \frac{3}{16}\sqrt{2}e^{13}, \frac{3}{16}\sqrt{2}e^{15}, \frac{3}{8}\sqrt{2}e^{25},$ $\frac{3}{16}\sqrt{5}e^{17}$	$(-\frac{3}{16}, \frac{9}{32}, \frac{1}{16}, \frac{7}{16}, \frac{3}{32}, -\frac{1}{8}, -\frac{3}{32}, \frac{3}{8}, -\frac{9}{32})$ $+\frac{3}{16}\sqrt{10}e^4 \otimes e_6 + \frac{9}{16}\sqrt{2}e^2 \otimes e_9$	{2356, 245, 3679, 479}
9531:2	$0, 0, 0, 0, \frac{2}{341}\sqrt{11001}e^{12}, \frac{1}{341}\sqrt{44390}e^{13}, \frac{1}{341}\sqrt{63690}e^{15},$ $\frac{1}{341}\sqrt{15054}e^{25}, \frac{2}{341}\sqrt{11001}e^{17}$	$(\frac{63}{341}, -\frac{27}{341}, -\frac{130}{341}, \frac{48}{341}, \frac{36}{341}, -\frac{67}{91}, \frac{9}{341}, \frac{162}{341})$ $+\frac{1}{341}\sqrt{113098}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38}
9531:2	$0, 0, 0, 0, \frac{1}{969}\sqrt{96690}e^{12}, \frac{1}{969}\sqrt{236158}e^{13}, \frac{14}{969}\sqrt{586}e^{15},$ $\frac{2}{969}\sqrt{58307}e^{25}, \frac{1}{969}\sqrt{178730}e^{17}$	$(-\frac{67}{969}, -\frac{10}{969}, \frac{125}{323}, \frac{499}{969}, -\frac{77}{969}, \frac{308}{969}, \frac{48}{323}, \frac{29}{323}, -\frac{211}{969})$ $+\frac{1}{969}\sqrt{460010}e^4 \otimes e_8 + \frac{2}{969}\sqrt{137710}e^3 \otimes e_9$	{123457, 1469, 2789, 3568}
9531:2	$0, 0, 0, 0, \frac{1}{475}\sqrt{61746}e^{12}, \frac{1}{475}\sqrt{47690}e^{13}, \frac{1}{475}\sqrt{88854}e^{15},$ $\frac{1}{475}\sqrt{19578}e^{25}, \frac{1}{475}\sqrt{61746}e^{17}$	$(\frac{69}{475}, -\frac{24}{475}, -\frac{182}{475}, \frac{138}{475}, \frac{9}{95}, -\frac{113}{475}, \frac{6}{25}, \frac{21}{475}, \frac{183}{475})$ $+\frac{1}{475}\sqrt{169174}e^1 \otimes e_3 + \frac{2}{475}\sqrt{9789}e^4 \otimes e_6$	{1247, 1459, 2345789, 348}
9531:2	$0, 0, 0, 0, \frac{12}{331}\sqrt{115}e^{12}, \frac{12}{331}\sqrt{782}e^{13}, \frac{6}{331}\sqrt{851}e^{15}, \frac{6}{331}\sqrt{713}e^{25},$ $\frac{12}{331}\sqrt{115}e^{17}$	$(-\frac{3}{331}, \frac{45}{331}, \frac{195}{331}, -\frac{219}{331}, \frac{42}{331}, \frac{192}{331}, \frac{39}{331}, \frac{87}{331}, \frac{36}{331})$ $+\frac{30}{331}\sqrt{253}e^3 \otimes e_4$	{123579, 1245679, 13, 146, 23678, 2478, 35689, 4589}
9531:2	$0, 0, 0, 0, \frac{1}{1057}\sqrt{111470}e^{12}, \frac{1}{1057}\sqrt{174270}e^{13}, \frac{20}{1057}\sqrt{314}e^{15},$ $\frac{2}{1057}\sqrt{65783}e^{25}, \frac{1}{1057}\sqrt{75046}e^{17}$	$(-\frac{39}{1057}, \frac{94}{1057}, -\frac{181}{1057}, \frac{463}{1057}, \frac{55}{1057}, -\frac{220}{1057}, \frac{16}{1057}, \frac{149}{1057}, -\frac{23}{1057})$ $+\frac{1}{1057}\sqrt{230162}e^4 \otimes e_8 + \frac{6}{1057}\sqrt{10362}e^2 \otimes e_6$	{1238, 156789, 2459, 3467}
9531:2	$0, 0, 0, 0, \frac{2}{1491}\sqrt{52643}e^{12}, \frac{1}{1491}\sqrt{695578}e^{13}, \frac{1}{1491}\sqrt{371090}e^{15},$ $\frac{2}{1491}\sqrt{174326}e^{25}, \frac{5}{1491}\sqrt{8630}e^{17}$	$(-\frac{29}{1491}, -\frac{40}{497}, \frac{198}{497}, \frac{656}{1491}, -\frac{149}{1491}, \frac{565}{1491}, -\frac{178}{1491}, -\frac{269}{1491}, -\frac{69}{497})$ $+\frac{1}{1491}\sqrt{1441210}e^3 \otimes e_8 + \frac{2}{1491}\sqrt{213161}e^4 \otimes e_9$	{123457, 139, 2789, 458}
9531:2	$0, 0, 0, 0, \frac{3}{271}\sqrt{1045}e^{12}, \frac{33}{271}\sqrt{3}e^{13}, \frac{3}{271}\sqrt{374}e^{15}, \frac{24}{271}\sqrt{33}e^{25},$ $\frac{3}{271}\sqrt{1045}e^{17}$	$(-\frac{33}{271}, \frac{30}{271}, \frac{45}{271}, \frac{126}{271}, -\frac{3}{271}, \frac{12}{271}, -\frac{36}{271}, \frac{27}{271}, -\frac{69}{271})$ $+\frac{3}{271}\sqrt{2145}e^4 \otimes e_8 + \frac{3}{271}\sqrt{3190}e^2 \otimes e_9$	{2345, 2456, 3479, 4679}
9531:2	$0, 0, 0, 0, \frac{2}{163}\sqrt{970}e^{12}, \frac{8}{489}\sqrt{582}e^{13}, \frac{2}{489}\sqrt{5529}e^{15}, \frac{1}{489}\sqrt{63438}e^{25},$ $\frac{1}{163}\sqrt{2910}e^{17}$	$(-\frac{24}{163}, \frac{40}{163}, \frac{65}{163}, -\frac{57}{163}, \frac{16}{163}, \frac{41}{163}, -\frac{8}{163}, \frac{56}{163}, -\frac{32}{163})$ $+\frac{20}{489}\sqrt{291}e^3 \otimes e_9 + \frac{2}{489}\sqrt{33465}e^2 \otimes e_4$	{12689, 134578, 2356, 479}
9531:2	$0, 0, 0, 0, \frac{1}{86}\sqrt{545}e^{12}, \frac{1}{43}\sqrt{327}e^{13}, \frac{1}{86}\sqrt{1526}e^{15}, \frac{1}{86}\sqrt{6758}e^{25},$ $\frac{1}{86}\sqrt{545}e^{17}$	$(\frac{6}{43}, -\frac{35}{172}, \frac{5}{43}, 1, -\frac{11}{172}, \frac{11}{43}, \frac{13}{172}, -\frac{23}{86}, \frac{37}{172})$ $+\frac{1}{43}\sqrt{3815}e^4 \otimes e_8$	{12389, 12689, 13578, 15678, 23456, 245, 34679, 479}
9531:2	$0, 0, 0, 0, \frac{4}{785}\sqrt{9210}e^{12}, \frac{2}{785}\sqrt{3377}e^{13}, \frac{2}{785}\sqrt{21183}e^{15}, \frac{1}{785}\sqrt{53418}e^{25},$ $\frac{1}{785}\sqrt{53418}e^{17}$	$(\frac{36}{785}, \frac{72}{785}, -\frac{271}{785}, \frac{93}{785}, \frac{108}{785}, -\frac{47}{157}, \frac{144}{785}, \frac{36}{157}, \frac{36}{157})$ $+\frac{2}{785}\sqrt{59251}e^1 \otimes e_3 + \frac{6}{785}\sqrt{5219}e^2 \otimes e_6$	{12478, 1278, 234579, 23579}
9531:2	$0, 0, 0, 0, \frac{2}{1361}\sqrt{44798}e^{12}, \frac{2}{1361}\sqrt{87873}e^{13}, \frac{10}{1361}\sqrt{3446}e^{15},$ $\frac{7}{1361}\sqrt{3446}e^{25}, \frac{1}{1361}\sqrt{1740230}e^{17}$	$(-\frac{204}{1361}, \frac{250}{1361}, \frac{349}{1361}, 1, \frac{46}{1361}, \frac{145}{1361}, -\frac{158}{1361}, \frac{296}{1361}, -\frac{362}{1361})$ $+\frac{2}{1361}\sqrt{959711}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:2	$0, 0, 0, 0, \frac{2}{2203}\sqrt{5335}e^{12}, \frac{1}{2203}\sqrt{108130}e^{13}, \frac{1}{2203}\sqrt{65230}e^{15},$ $\frac{2}{2203}\sqrt{25630}e^{25}, \frac{1}{2203}\sqrt{38170}e^{17}$	$(-\frac{101}{2203}, \frac{92}{2203}, \frac{138}{2203}, \frac{136}{2203}, -\frac{9}{2203}, \frac{37}{2203}, -\frac{110}{2203}, \frac{83}{2203}, -\frac{211}{2203})$ $+\frac{2}{2203}\sqrt{29755}e^2 \otimes e_6 + \frac{5}{2203}\sqrt{4334}e^3 \otimes e_8$	{1456789, 156789, 3467, 367}
9531:2	$0, 0, 0, 0, \frac{2}{1369}\sqrt{165615}e^{12}, \frac{12}{1369}\sqrt{6405}e^{13}, \frac{2}{1369}\sqrt{129930}e^{15},$ $\frac{1}{1369}\sqrt{1008330}e^{25}, \frac{1}{1369}\sqrt{404430}e^{17}$	$(-\frac{158}{1369}, \frac{456}{1369}, -\frac{301}{1369}, \frac{203}{1369}, \frac{298}{1369}, -\frac{459}{1369}, \frac{140}{1369}, \frac{754}{1369}, -\frac{18}{1369})$ $+\frac{2}{1369}\sqrt{533445}e^2 \otimes e_6$	{12348, 1238, 1456789, 156789, 2459, 259, 3467, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:2	$0, 0, 0, 0, \frac{3}{16}\sqrt{5}e^{12}, \frac{3}{16}\sqrt{2}e^{13}, \frac{3}{16}\sqrt{2}e^{15}, \frac{3}{8}\sqrt{2}e^{25}, \frac{3}{16}\sqrt{5}e^{17}$	$(-\frac{3}{16}, \frac{9}{32}, \frac{3}{8}, -\frac{3}{16}, \frac{3}{32}, \frac{3}{16}, -\frac{3}{32}, \frac{3}{8}, -\frac{9}{32})$ $+\frac{3}{16}\sqrt{10}e^3 \otimes e_4 + \frac{9}{16}\sqrt{2}e^2 \otimes e_9$	{2356, 245, 3679, 479}
9531:2	$0, 0, 0, 0, \frac{1}{1088}\sqrt{75361}e^{12}, \frac{1}{1088}\sqrt{353958}e^{13}, \frac{31}{272}\sqrt{11}e^{15}, \frac{1}{544}\sqrt{51491}e^{25}, \frac{1}{1088}\sqrt{75361}e^{17}$	$(\frac{27}{1088}, -\frac{229}{2176}, \frac{139}{1088}, \frac{507}{1088}, -\frac{175}{2176}, \frac{83}{544}, -\frac{121}{2176}, -\frac{101}{544}, -\frac{67}{2176})$ $+\frac{1}{1088}\sqrt{396242}e^3 \otimes e_8 + \frac{1}{544}\sqrt{73315}e^4 \otimes e_6$	{1234579, 134, 2478, 4589}
9531:2	$0, 0, 0, 0, \frac{3}{784}\sqrt{4495}e^{12}, \frac{3}{784}\sqrt{7482}e^{13}, \frac{87}{392}\sqrt{2}e^{15}, \frac{15}{392}\sqrt{174}e^{25}, \frac{3}{784}\sqrt{4495}e^{17}$	$(-\frac{87}{784}, \frac{123}{1568}, \frac{297}{784}, \frac{81}{784}, -\frac{51}{1568}, \frac{15}{56}, -\frac{225}{1568}, \frac{9}{196}, -\frac{57}{224})$ $+\frac{3}{392}\sqrt{5191}e^2 \otimes e_9 + \frac{3}{784}\sqrt{20010}e^3 \otimes e_8$	{23456, 2356, 34679, 3679}
9531:2	$0, 0, 0, 0, \frac{4}{331}\sqrt{429}e^{12}, \frac{6}{331}\sqrt{715}e^{13}, \frac{13}{331}\sqrt{22}e^{15}, \frac{1}{331}\sqrt{16302}e^{25}, \frac{4}{331}\sqrt{429}e^{17}$	$(\frac{35}{331}, -\frac{42}{331}, \frac{94}{331}, -\frac{108}{331}, -\frac{7}{331}, \frac{129}{331}, \frac{28}{331}, -\frac{49}{331}, \frac{63}{331})$ $+\frac{1}{331}\sqrt{41470}e^3 \otimes e_8 + \frac{7}{331}\sqrt{858}e^1 \otimes e_4$	{12678, 15689, 2345679, 346}
9531:2	$0, 0, 0, 0, \frac{2}{877}\sqrt{24662}e^{12}, \frac{8}{877}\sqrt{4389}e^{13}, \frac{2}{877}\sqrt{22363}e^{15}, \frac{2}{877}\sqrt{12749}e^{25}, \frac{2}{877}\sqrt{19646}e^{17}$	$(-\frac{129}{877}, \frac{133}{877}, \frac{164}{877}, \frac{453}{877}, \frac{4}{877}, \frac{35}{877}, -\frac{125}{877}, \frac{137}{877}, -\frac{254}{877})$ $+\frac{2}{877}\sqrt{78793}e^4 \otimes e_6 + \frac{4}{877}\sqrt{22154}e^3 \otimes e_9$	{123457, 169, 24789, 3568}
9531:2	$0, 0, 0, 0, \frac{2}{1361}\sqrt{138605}e^{12}, \frac{2}{1361}\sqrt{310767}e^{13}, \frac{2}{1361}\sqrt{74409}e^{15}, \frac{1}{1361}\sqrt{323898}e^{25}, \frac{5}{1361}\sqrt{43770}e^{17}$	$(-\frac{278}{1361}, \frac{310}{1361}, \frac{935}{1361}, \frac{231}{1361}, \frac{32}{1361}, \frac{657}{1361}, -\frac{246}{1361}, \frac{342}{1361}, -\frac{524}{1361})$ $+\frac{2}{1361}\sqrt{824335}e^3 \otimes e_9$	{123457, 12357, 1469, 169, 24789, 2789, 34568, 3568}
9531:2	$0, 0, 0, 0, \frac{2}{1527}\sqrt{119167}e^{12}, \frac{1}{1527}\sqrt{316302}e^{13}, \frac{1}{1527}\sqrt{371234}e^{15}, \frac{1}{1527}\sqrt{80626}e^{25}, \frac{2}{509}\sqrt{6645}e^{17}$	$(\frac{121}{1527}, \frac{21}{509}, -\frac{322}{1527}, -\frac{380}{1527}, \frac{184}{1527}, -\frac{67}{1527}, \frac{305}{1527}, \frac{247}{1527}, \frac{142}{509})$ $+\frac{1}{1527}\sqrt{739810}e^1 \otimes e_3 + \frac{4}{1527}\sqrt{29681}e^2 \otimes e_4$	{1278, 14589, 23579, 34}
9531:2	$0, 0, 0, 0, \frac{2}{33}\sqrt{22}e^{12}, \frac{4}{33}\sqrt{11}e^{13}, \frac{2}{33}\sqrt{33}e^{15}, \frac{1}{33}\sqrt{286}e^{25}, \frac{1}{33}\sqrt{66}e^{17}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0, 0)$ $+\frac{2}{33}\sqrt{77}e^2 \otimes e_4 + \frac{4}{33}\sqrt{22}e^3 \otimes e_8$	{1268, 1456789, 23569, 3467}
9531:2	$0, 0, 0, 0, \frac{12}{331}\sqrt{115}e^{12}, \frac{12}{331}\sqrt{782}e^{13}, \frac{6}{331}\sqrt{851}e^{15}, \frac{6}{331}\sqrt{713}e^{25}, \frac{12}{331}\sqrt{115}e^{17}$	$(-\frac{3}{331}, \frac{45}{331}, -\frac{80}{331}, \frac{1}{331}, \frac{42}{331}, -\frac{83}{331}, \frac{39}{331}, \frac{87}{331}, \frac{36}{331})$ $+\frac{30}{331}\sqrt{253}e^4 \otimes e_6$	{1234579, 125679, 134, 16, 23678, 2478, 35689, 4589}
9531:2	$0, 0, 0, 0, \frac{1}{62}\sqrt{154}e^{12}, \frac{3}{62}\sqrt{55}e^{13}, \frac{3}{31}\sqrt{11}e^{15}, \frac{1}{62}\sqrt{33}e^{25}, \frac{3}{62}\sqrt{77}e^{17}$	$(-\frac{1}{31}, \frac{2}{31}, \frac{10}{31}, -\frac{12}{31}, \frac{1}{31}, \frac{9}{31}, 0, \frac{3}{31}, -\frac{1}{31})$ $+\frac{1}{62}\sqrt{1353}e^1 \otimes e_4 + \frac{7}{62}\sqrt{22}e^3 \otimes e_9$	{1237, 1569, 245789, 3468}
9531:2	$0, 0, 0, 0, \frac{14}{1929}\sqrt{2101}e^{12}, \frac{28}{1929}\sqrt{715}e^{13}, \frac{14}{643}\sqrt{407}e^{15}, \frac{7}{1929}\sqrt{3586}e^{25}, \frac{7}{1929}\sqrt{15158}e^{17}$	$(\frac{98}{1929}, -\frac{14}{643}, -\frac{147}{643}, \frac{791}{1929}, \frac{56}{1929}, -\frac{343}{1929}, \frac{154}{1929}, \frac{14}{1929}, \frac{84}{643})$ $+\frac{14}{1929}\sqrt{3377}e^4 \otimes e_9 + \frac{14}{1929}\sqrt{6259}e^1 \otimes e_3$	{1247, 159, 235789, 348}
9531:2	$0, 0, 0, 0, \frac{3}{931}\sqrt{6490}e^{12}, \frac{3}{931}\sqrt{5478}e^{13}, \frac{3}{931}\sqrt{5302}e^{15}, \frac{15}{931}\sqrt{66}e^{25}, \frac{3}{931}\sqrt{6490}e^{17}$	$(-\frac{33}{931}, \frac{96}{931}, -\frac{132}{931}, \frac{12}{133}, \frac{9}{133}, -\frac{165}{931}, \frac{30}{931}, \frac{159}{931}, -\frac{3}{931})$ $+\frac{3}{931}\sqrt{10230}e^1 \otimes e_3 + \frac{6}{931}\sqrt{2101}e^2 \otimes e_9$	{12478, 1278, 14589, 1589}
9531:2	$0, 0, 0, 0, \frac{2}{1335}\sqrt{34773}e^{12}, \frac{8}{1335}\sqrt{6834}e^{13}, \frac{2}{1335}\sqrt{54069}e^{15}, \frac{2}{1335}\sqrt{75777}e^{25}, \frac{134}{445}e^{17}$	$(-\frac{133}{1335}, \frac{104}{445}, \frac{43}{1335}, -\frac{359}{1335}, \frac{179}{1335}, -\frac{6}{89}, \frac{46}{1335}, \frac{491}{1335}, -\frac{29}{445})$ $+\frac{2}{1335}\sqrt{95073}e^3 \otimes e_4 + \frac{4}{1335}\sqrt{37587}e^2 \otimes e_6$	{1238, 1456789, 2459, 367}
9531:2	$0, 0, 0, 0, \frac{30}{961}\sqrt{130}e^{12}, \frac{78}{961}\sqrt{3}e^{13}, \frac{6}{961}\sqrt{1885}e^{15}, \frac{12}{961}\sqrt{429}e^{25}, \frac{30}{961}\sqrt{130}e^{17}$	$(-\frac{78}{961}, \frac{159}{961}, \frac{147}{961}, -\frac{312}{961}, \frac{81}{961}, \frac{69}{961}, \frac{3}{961}, \frac{240}{961}, -\frac{75}{961})$ $+\frac{12}{961}\sqrt{1365}e^1 \otimes e_4 + \frac{6}{961}\sqrt{5629}e^2 \otimes e_9$	{123678, 1278, 135689, 1589}
9531:2	$0, 0, 0, 0, \frac{2}{361}\sqrt{11886}e^{12}, \frac{5}{361}\sqrt{566}e^{13}, \frac{2}{361}\sqrt{16697}e^{15}, \frac{6}{361}\sqrt{283}e^{25}, \frac{2}{361}\sqrt{11886}e^{17}$	$(\frac{50}{361}, -\frac{2}{361}, \frac{39}{361}, -\frac{233}{361}, \frac{48}{361}, \frac{89}{361}, \frac{98}{361}, \frac{46}{361}, \frac{148}{361})$ $+\frac{3}{361}\sqrt{18678}e^1 \otimes e_4$	{1237, 1267, 1359, 1569, 23456789, 245789, 3468, 48}
9531:2	$0, 0, 0, 0, \frac{3}{166}\sqrt{411}e^{12}, \frac{1}{83}\sqrt{5343}e^{13}, \frac{1}{166}\sqrt{11234}e^{15}, \frac{1}{166}\sqrt{18906}e^{25}, \frac{3}{166}\sqrt{411}e^{17}$	$(\frac{7}{83}, -\frac{63}{332}, \frac{44}{83}, \frac{12}{83}, -\frac{35}{332}, \frac{51}{83}, -\frac{7}{332}, -\frac{49}{166}, \frac{21}{332})$ $+\frac{1}{83}\sqrt{9727}e^3 \otimes e_8$	{1234579, 123579, 13, 134, 2478, 278, 4589, 589}
9531:3	$0, 0, 0, 0, \frac{2}{1433}\sqrt{199070}e^{12}, \frac{2}{1433}\sqrt{382917}e^{13}, \frac{2}{1433}\sqrt{80799}e^{25}, \frac{3}{1433}\sqrt{49182}e^{15}, \frac{1}{1433}\sqrt{1384122}e^{27}$	$(\frac{100}{1433}, -\frac{164}{1433}, \frac{779}{1433}, \frac{225}{1433}, -\frac{64}{1433}, \frac{879}{1433}, -\frac{228}{1433}, \frac{36}{1433}, -\frac{392}{1433})$ $+\frac{4}{1433}\sqrt{176821}e^3 \otimes e_9$	{1245689, 125689, 13, 134, 234678, 23678, 4579, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:3	$0, 0, 0, 0, \frac{2}{431}\sqrt{4141e^{12}}, \frac{2}{431}\sqrt{5959e^{13}}, \frac{8}{431}\sqrt{303e^{25}}, \frac{1}{431}\sqrt{1010e^{15}}, \frac{1}{431}\sqrt{13534e^{27}}$	$(\frac{4}{431}, \frac{38}{431}, -\frac{67}{431}, -\frac{97}{431}, \frac{42}{431}, -\frac{63}{431}, \frac{80}{431}, \frac{46}{431}, \frac{118}{431}) + \frac{2}{431}\sqrt{7474e^1} \otimes e_4 + \frac{4}{431}\sqrt{2929e^2} \otimes e_6$	{1237, 156789, 2459, 3468}
9531:3	$0, 0, 0, 0, \frac{2}{1507}\sqrt{90395e^{12}}, \frac{1}{1507}\sqrt{674830e^{13}}, \frac{10}{1507}\sqrt{537e^{25}}, \frac{1}{1507}\sqrt{155730e^{15}}, \frac{2}{1507}\sqrt{181685e^{27}}$	$(-\frac{85}{1507}, -\frac{57}{1507}, \frac{639}{1507}, \frac{668}{1507}, -\frac{142}{1507}, \frac{554}{1507}, -\frac{199}{1507}, -\frac{227}{1507}, -\frac{256}{1507}) + \frac{1}{1507}\sqrt{1501810e^3} \otimes e_9 + \frac{1}{1507}\sqrt{878890e^4} \otimes e_8$	{124569, 138, 23467, 5789}
9531:3	$0, 0, 0, 0, \frac{3}{1529}\sqrt{69126e^{12}}, \frac{54}{1529}\sqrt{205e^{13}}, \frac{3}{1529}\sqrt{13530e^{25}}, \frac{18}{1529}\sqrt{2993e^{15}}, \frac{24}{1529}\sqrt{1599e^{27}}$	$(\frac{540}{1529}, -\frac{369}{1529}, \frac{3}{1529}, \frac{273}{1529}, \frac{171}{1529}, \frac{543}{1529}, -\frac{18}{139}, \frac{711}{1529}, -\frac{567}{1529}) + \frac{12}{1529}\sqrt{19311e^1} \otimes e_9$	{1345, 135, 1456, 156, 34679, 3679, 479, 79}
9531:3	$0, 0, 0, 0, \frac{2}{2251}\sqrt{250815e^{12}}, \frac{1}{2251}\sqrt{748810e^{13}}, \frac{1}{2251}\sqrt{414390e^{25}}, \frac{3}{2251}\sqrt{164302e^{15}}, \frac{4}{2251}\sqrt{15994e^{27}}$	$(\frac{187}{2251}, -\frac{67}{2251}, -\frac{540}{2251}, \frac{1034}{2251}, \frac{120}{2251}, -\frac{353}{2251}, \frac{53}{2251}, \frac{307}{2251}, -\frac{14}{2251}) + \frac{1}{2251}\sqrt{1769518e^1} \otimes e_3 + \frac{4}{2251}\sqrt{79243e^4} \otimes e_8$	{128, 1459, 235789, 347}
9531:3	$0, 0, 0, 0, \frac{6}{4025}\sqrt{23901e^{12}}, \frac{108}{4025}\sqrt{310e^{13}}, \frac{24}{4025}\sqrt{93e^{25}}, \frac{72}{4025}\sqrt{341e^{15}}, \frac{6}{4025}\sqrt{74121e^{27}}$	$(\frac{783}{4025}, -\frac{558}{4025}, -\frac{24}{161}, \frac{1857}{4025}, \frac{9}{161}, \frac{183}{4025}, -\frac{333}{4025}, \frac{144}{575}, -\frac{891}{4025}) + \frac{12}{4025}\sqrt{50406e^1} \otimes e_9 + \frac{54}{4025}\sqrt{1581e^4} \otimes e_6$	{1345, 156, 3679, 479}
9531:3	$0, 0, 0, 0, \frac{7}{23}\sqrt{6e^{12}}, \frac{3}{23}\sqrt{14e^{13}}, \frac{1}{23}\sqrt{42e^{25}}, \frac{7}{23}\sqrt{6e^{15}}, \frac{1}{23}\sqrt{42e^{27}}$	$(\frac{6}{23}, -\frac{1}{23}, \frac{1}{23}, -\frac{15}{23}, \frac{5}{23}, \frac{7}{23}, \frac{4}{23}, \frac{11}{23}, \frac{3}{23}) + \frac{1}{23}\sqrt{798e^1} \otimes e_4$	{1238, 1268, 1359, 1569, 23456789, 245789, 3467, 47}
9531:3	$0, 0, 0, 0, \frac{2}{4697}\sqrt{764570e^{12}}, \frac{4}{4697}\sqrt{404238e^{13}}, \frac{2}{4697}\sqrt{277819e^{25}}, \frac{2}{4697}\sqrt{530657e^{15}}, \frac{2}{4697}\sqrt{979558e^{27}}$	$(-\frac{25}{4697}, -\frac{251}{4697}, \frac{736}{4697}, \frac{2225}{4697}, -\frac{276}{4697}, \frac{711}{4697}, -\frac{527}{4697}, -\frac{43}{671}, -\frac{778}{4697}) + \frac{10}{4697}\sqrt{55261e^4} \otimes e_6 + \frac{4}{4697}\sqrt{467826e^3} \otimes e_9$	{125689, 134, 23678, 4579}
9531:3	$0, 0, 0, 0, \frac{12}{4369}\sqrt{13706e^{12}}, \frac{24}{4369}\sqrt{1335e^{13}}, \frac{6}{4369}\sqrt{29815e^{25}}, \frac{24}{4369}\sqrt{8277e^{15}}, \frac{24}{4369}\sqrt{4094e^{27}}$	$(\frac{480}{4369}, -\frac{534}{4369}, \frac{243}{4369}, \frac{2028}{4369}, -\frac{54}{4369}, \frac{723}{4369}, -\frac{588}{4369}, \frac{426}{4369}, -\frac{66}{257}) + \frac{6}{4369}\sqrt{137505e^4} \otimes e_8 + \frac{6}{4369}\sqrt{208349e^1} \otimes e_9$	{1345, 1456, 34679, 479}
9531:3	$0, 0, 0, 0, \frac{4}{595}\sqrt{2090e^{12}}, \frac{38}{595}\sqrt{33e^{13}}, \frac{38}{595}\sqrt{11e^{25}}, \frac{1}{595}\sqrt{72314e^{15}}, \frac{1}{595}\sqrt{2926e^{27}}$	$(-\frac{4}{119}, \frac{24}{595}, \frac{193}{595}, -\frac{229}{595}, \frac{4}{595}, \frac{173}{595}, \frac{4}{595}, -\frac{16}{595}, \frac{52}{595}) + \frac{24}{595}\sqrt{209e^1} \otimes e_4 + \frac{4}{595}\sqrt{6479e^3} \otimes e_8$	{1268, 1359, 245789, 3467}
9531:3	$0, 0, 0, 0, \frac{1}{43}\sqrt{1365e^{12}}, \frac{1}{43}\sqrt{770e^{13}}, \frac{3}{43}\sqrt{35e^{25}}, \frac{1}{43}\sqrt{1365e^{15}}, \frac{3}{43}\sqrt{35e^{27}}$	$(\frac{15}{43}, -\frac{9}{86}, -\frac{20}{43}, \frac{6}{43}, \frac{21}{86}, -\frac{5}{43}, \frac{6}{43}, \frac{51}{86}, \frac{3}{86}) + \frac{1}{43}\sqrt{2590e^1} \otimes e_3$	{1248, 128, 1459, 159, 2345789, 235789, 347, 37}
9531:3	$0, 0, 0, 0, \frac{1}{701}\sqrt{54894e^{12}}, \frac{1}{2103}\sqrt{985478e^{13}}, \frac{1}{2103}\sqrt{39210e^{25}}, \frac{2}{2103}\sqrt{189515e^{15}}, \frac{1}{2103}\sqrt{1137090e^{27}}$	$(-\frac{233}{2103}, \frac{14}{2103}, \frac{285}{701}, \frac{372}{701}, -\frac{73}{701}, \frac{622}{2103}, -\frac{205}{2103}, -\frac{452}{2103}, -\frac{191}{2103}) + \frac{1}{2103}\sqrt{2276794e^4} \otimes e_9 + \frac{1}{2103}\sqrt{2580018e^3} \otimes e_8$	{123457, 16789, 2369, 458}
9531:3	$0, 0, 0, 0, \frac{1}{505}\sqrt{76282e^{12}}, \frac{1}{1515}\sqrt{395602e^{13}}, \frac{2}{1515}\sqrt{41689e^{25}}, \frac{8}{1515}\sqrt{12418e^{15}}, \frac{1}{1515}\sqrt{157886e^{27}}$	$(\frac{83}{303}, -\frac{72}{505}, -\frac{472}{1515}, \frac{218}{505}, \frac{199}{1515}, -\frac{19}{505}, -\frac{17}{1515}, \frac{614}{1515}, -\frac{233}{1515}) + \frac{1}{1515}\sqrt{1527414e^1} \otimes e_3 + \frac{4}{1515}\sqrt{54107e^4} \otimes e_9$	{1289, 145, 234578, 379}
9531:3	$0, 0, 0, 0, \frac{2}{2061}\sqrt{21489e^{12}}, \frac{4}{2061}\sqrt{38570e^{13}}, \frac{2}{2061}\sqrt{161443e^{25}}, \frac{1}{2061}\sqrt{333906e^{15}}, \frac{1}{2061}\sqrt{728422e^{27}}$	$(-\frac{98}{2061}, \frac{130}{2061}, -\frac{323}{2061}, \frac{281}{687}, \frac{32}{2061}, -\frac{421}{2061}, \frac{18}{229}, -\frac{22}{687}, \frac{292}{2061}) + \frac{2}{2061}\sqrt{166953e^4} \otimes e_9 + \frac{58}{2061}\sqrt{399e^2} \otimes e_6$	{12347, 156789, 259, 3468}
9531:3	$0, 0, 0, 0, \frac{2}{1409}\sqrt{100947e^{12}}, \frac{46}{1409}\sqrt{231e^{13}}, \frac{10}{1409}\sqrt{3542e^{25}}, \frac{3}{1409}\sqrt{216062e^{15}}, \frac{3}{1409}\sqrt{17710e^{27}}$	$(-\frac{276}{1409}, \frac{190}{1409}, \frac{387}{1409}, 1, -\frac{86}{1409}, \frac{111}{1409}, \frac{104}{1409}, -\frac{362}{1409}, \frac{294}{1409}) + \frac{4}{1409}\sqrt{256795e^4} \otimes e_8$	{123689, 1289, 13456, 145, 23578, 25678, 3479, 4679}
9531:3	$0, 0, 0, 0, \frac{1}{89}\sqrt{2090e^{12}}, \frac{12}{89}\sqrt{55e^{13}}, \frac{1}{89}\sqrt{1870e^{25}}, \frac{1}{89}\sqrt{2090e^{15}}, \frac{1}{89}\sqrt{1870e^{27}}$	$(-\frac{1}{89}, \frac{17}{178}, -\frac{20}{89}, 1, \frac{15}{178}, -\frac{21}{89}, \frac{16}{89}, \frac{13}{178}, \frac{49}{178}) + \frac{2}{89}\sqrt{4015e^4} \otimes e_6$	{1234589, 125689, 134, 16, 23678, 2478, 35679, 4579}
9531:3	$0, 0, 0, 0, \frac{12}{1727}\sqrt{649e^{12}}, \frac{6}{1727}\sqrt{17110e^{13}}, \frac{63}{1727}\sqrt{118e^{25}}, \frac{3}{1727}\sqrt{11918e^{15}}, \frac{18}{1727}\sqrt{1239e^{27}}$	$(-\frac{354}{1727}, \frac{315}{1727}, \frac{138}{1727}, \frac{213}{1727}, -\frac{39}{1727}, -\frac{216}{1727}, \frac{276}{1727}, -\frac{393}{1727}, \frac{591}{1727}) + \frac{3}{1727}\sqrt{119062e^2} \otimes e_6 + \frac{3}{1727}\sqrt{59590e^3} \otimes e_8$	{12347, 1237, 1456789, 156789}
9531:3	$0, 0, 0, 0, \frac{6}{77}\sqrt{17e^{12}}, \frac{6}{77}\sqrt{6e^{13}}, \frac{6}{77}\sqrt{11e^{25}}, \frac{18}{77}e^{15}, \frac{6}{77}\sqrt{5e^{27}}$	$(\frac{12}{77}, -\frac{6}{77}, \frac{3}{77}, -\frac{24}{77}, \frac{6}{77}, \frac{15}{77}, 0, \frac{18}{77}, -\frac{6}{77}) + \frac{6}{77}\sqrt{33e^2} \otimes e_4 + \frac{6}{77}\sqrt{35e^1} \otimes e_9$	{12378, 12678, 235689, 2589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:3	$0, 0, 0, 0, \frac{2}{391}\sqrt{346}e^{12}, \frac{4}{391}\sqrt{2595}e^{13}, \frac{2}{391}\sqrt{519}e^{25}, \frac{3}{391}\sqrt{1038}e^{15},$ $\frac{5}{391}\sqrt{1038}e^{27}$	$(\frac{56}{391}, -\frac{40}{391}, \frac{109}{391}, -\frac{117}{391}, \frac{16}{391}, \frac{165}{391}, -\frac{24}{391}, \frac{72}{391}, -\frac{64}{391})$ $+\frac{18}{391}\sqrt{173}e^1 \otimes e_4 + \frac{4}{391}\sqrt{3979}e^3 \otimes e_9$	{12378, 15679, 24589, 346}
9531:3	$0, 0, 0, 0, \frac{2}{1253}\sqrt{36894}e^{12}, \frac{2}{1253}\sqrt{92235}e^{13}, \frac{2}{1253}\sqrt{104533}e^{25},$ $\frac{3}{1253}\sqrt{12298}e^{15}, \frac{3}{1253}\sqrt{36894}e^{27}$	$(-\frac{186}{1253}, \frac{220}{1253}, -\frac{153}{1253}, \frac{407}{1253}, \frac{34}{1253}, -\frac{339}{1253}, \frac{254}{1253}, -\frac{152}{1253}, \frac{474}{1253})$ $+\frac{2}{1253}\sqrt{64285}e^4 \otimes e_8 + \frac{6}{1253}\sqrt{26273}e^2 \otimes e_6$	{12347, 156789, 2459, 368}
9531:3	$0, 0, 0, 0, \frac{6}{4025}\sqrt{23901}e^{12}, \frac{108}{4025}\sqrt{310}e^{13}, \frac{24}{4025}\sqrt{93}e^{25},$ $\frac{72}{4025}\sqrt{341}e^{15}, \frac{6}{4025}\sqrt{74121}e^{27}$	$(\frac{783}{4025}, -\frac{558}{4025}, \frac{111}{575}, -\frac{39}{175}, \frac{9}{161}, \frac{312}{805}, \frac{333}{4025}, \frac{144}{575}, -\frac{891}{4025})$ $+\frac{12}{4025}\sqrt{50406}e^1 \otimes e_9 + \frac{54}{4025}\sqrt{1581}e^3 \otimes e_4$	{135, 1456, 3679, 479}
9531:3	$0, 0, 0, 0, \frac{2}{23}\sqrt{29}e^{12}, \frac{2}{23}\sqrt{29}e^{13}, \frac{2}{69}\sqrt{174}e^{25}, \frac{1}{69}\sqrt{174}e^{15},$ $\frac{5}{69}\sqrt{174}e^{27}$	$(\frac{4}{23}, -\frac{10}{69}, \frac{7}{69}, 1, \frac{2}{69}, \frac{19}{69}, -\frac{8}{69}, \frac{14}{69}, -\frac{6}{23})$ $+\frac{4}{69}\sqrt{609}e^4 \otimes e_9$	{12359, 12569, 1348, 1468, 23467, 247, 356789, 5789}
9531:3	$0, 0, 0, 0, \frac{6}{143}\sqrt{77}e^{12}, \frac{14}{143}\sqrt{11}e^{13}, \frac{14}{143}\sqrt{22}e^{25}, \frac{3}{143}\sqrt{154}e^{15},$ $\frac{5}{143}\sqrt{154}e^{27}$	$(-\frac{2}{13}, \frac{2}{13}, \frac{5}{13}, -\frac{5}{13}, 0, \frac{3}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{4}{13})$ $+\frac{10}{143}\sqrt{77}e^3 \otimes e_8 + \frac{2}{143}\sqrt{2849}e^2 \otimes e_4$	{12678, 134579, 2589, 346}
9531:3	$0, 0, 0, 0, \frac{6}{4741}\sqrt{24779}e^{12}, \frac{12}{4741}\sqrt{18105}e^{13}, \frac{30}{4741}\sqrt{781}e^{25},$ $\frac{36}{4741}\sqrt{2627}e^{15}, \frac{6}{4741}\sqrt{60989}e^{27}$	$(\frac{225}{4741}, -\frac{426}{4741}, \frac{1302}{4741}, \frac{507}{4741}, -\frac{201}{4741}, \frac{1527}{4741}, -\frac{57}{431}, \frac{24}{4741}, -\frac{1053}{4741})$ $+\frac{6}{431}\sqrt{1065}e^3 \otimes e_8 + \frac{6}{4741}\sqrt{171749}e^1 \otimes e_9$	{1345, 135, 34679, 3679}
9531:3	$0, 0, 0, 0, \frac{2}{4225}\sqrt{55709}e^{12}, \frac{4}{4225}\sqrt{202130}e^{13}, \frac{4}{4225}\sqrt{152830}e^{25},$ $\frac{4}{4225}\sqrt{99586}e^{15}, \frac{2}{4225}\sqrt{459969}e^{27}$	$(-\frac{489}{4225}, \frac{626}{4225}, \frac{129}{4225}, -\frac{857}{4225}, \frac{137}{4225}, -\frac{72}{845}, \frac{763}{4225}, -\frac{352}{4225}, \frac{1389}{4225})$ $+\frac{2}{4225}\sqrt{647309}e^3 \otimes e_4 + \frac{4}{4225}\sqrt{302702}e^2 \otimes e_6$	{1237, 1456789, 2459, 368}
9531:3	$0, 0, 0, 0, \frac{2}{301}\sqrt{9082}e^{12}, \frac{2}{301}\sqrt{239}e^{13}, \frac{2}{301}\sqrt{12667}e^{25}, \frac{1}{301}\sqrt{8126}e^{15},$ $\frac{5}{301}\sqrt{1434}e^{27}$	$(-\frac{4}{301}, \frac{44}{301}, \frac{55}{301}, -\frac{195}{301}, \frac{40}{301}, \frac{51}{301}, \frac{12}{301}, \frac{36}{301}, \frac{128}{301})$ $+\frac{4}{301}\sqrt{7409}e^2 \otimes e_4$	{12367, 127, 13456789, 145789, 2359, 2569, 348, 468}
9531:3	$0, 0, 0, 0, \frac{9}{157}\sqrt{101}e^{12}, \frac{1}{157}\sqrt{1010}e^{13}, \frac{1}{157}\sqrt{1515}e^{25}, \frac{9}{157}\sqrt{101}e^{15},$ $\frac{1}{157}\sqrt{1515}e^{27}$	$(\frac{33}{157}, -\frac{15}{314}, -\frac{68}{157}, \frac{66}{157}, \frac{51}{314}, -\frac{35}{157}, \frac{18}{157}, \frac{117}{314}, \frac{21}{314})$ $+\frac{1}{157}\sqrt{18382}e^1 \otimes e_3 + \frac{4}{157}\sqrt{606}e^4 \otimes e_6$	{1248, 1459, 2345789, 347}
9531:3	$0, 0, 0, 0, \frac{18}{1643}\sqrt{2093}e^{12}, \frac{9}{1643}\sqrt{3514}e^{13}, \frac{9}{1643}\sqrt{2674}e^{25},$ $\frac{45}{1643}\sqrt{182}e^{15}, \frac{90}{1643}\sqrt{14}e^{27}$	$(\frac{243}{1643}, \frac{9}{1643}, -\frac{324}{1643}, -\frac{18}{53}, \frac{252}{1643}, -\frac{81}{1643}, \frac{261}{1643}, \frac{495}{1643}, \frac{270}{1643})$ $+\frac{252}{1643}\sqrt{13}e^2 \otimes e_4 + \frac{9}{1643}\sqrt{10430}e^1 \otimes e_3$	{1278, 14579, 23589, 34}
9531:3	$0, 0, 0, 0, \frac{4}{1457}\sqrt{16270}e^{12}, \frac{2}{1457}\sqrt{317265}e^{13}, \frac{2}{1457}\sqrt{27659}e^{25},$ $\frac{1}{1457}\sqrt{1194218}e^{15}, \frac{1}{1457}\sqrt{374210}e^{27}$	$(-\frac{412}{1457}, \frac{264}{1457}, \frac{1067}{1457}, \frac{265}{1457}, -\frac{148}{1457}, \frac{655}{1457}, \frac{116}{1457}, -\frac{560}{1457}, \frac{380}{1457})$ $+\frac{4}{1457}\sqrt{242423}e^3 \otimes e_8$	{123457, 12357, 146789, 16789, 23469, 2369, 458, 58}
9531:3	$0, 0, 0, 0, \frac{1}{995}\sqrt{173958}e^{12}, \frac{1}{995}\sqrt{100558}e^{13}, \frac{12}{995}\sqrt{1101}e^{25},$ $\frac{2}{995}\sqrt{5505}e^{15}, \frac{7}{995}\sqrt{2202}e^{27}$	$(\frac{39}{995}, \frac{78}{995}, -\frac{328}{995}, \frac{126}{995}, \frac{117}{995}, -\frac{289}{995}, \frac{39}{199}, \frac{156}{995}, \frac{273}{995})$ $+\frac{1}{995}\sqrt{232678}e^1 \otimes e_3 + \frac{4}{995}\sqrt{25323}e^2 \otimes e_6$	{145679, 15679, 346, 36}
9531:3	$0, 0, 0, 0, \frac{2}{1521}\sqrt{66381}e^{12}, \frac{10}{1521}\sqrt{8393}e^{13}, \frac{8}{1521}\sqrt{14497}e^{25},$ $\frac{1}{1521}\sqrt{462378}e^{15}, \frac{1}{1521}\sqrt{685174}e^{27}$	$(-\frac{172}{1521}, \frac{290}{1521}, -\frac{301}{1521}, \frac{83}{507}, \frac{118}{1521}, -\frac{473}{1521}, \frac{136}{507}, -\frac{6}{169}, \frac{698}{1521})$ $+\frac{4}{1521}\sqrt{121317}e^2 \otimes e_6$	{12347, 1237, 1456789, 156789, 2459, 259, 3468, 368}
9531:3	$0, 0, 0, 0, \frac{2}{4673}\sqrt{588305}e^{12}, \frac{4}{4673}\sqrt{487626}e^{13}, \frac{2}{4673}\sqrt{55798}e^{25},$ $\frac{2}{4673}\sqrt{405142}e^{15}, \frac{2}{4673}\sqrt{386947}e^{27}$	$(-\frac{985}{4673}, \frac{592}{4673}, \frac{1048}{4673}, \frac{2489}{4673}, -\frac{393}{4673}, \frac{63}{4673}, \frac{199}{4673}, -\frac{1378}{4673}, \frac{791}{4673})$ $+\frac{2}{4673}\sqrt{2446621}e^4 \otimes e_6 + \frac{4}{4673}\sqrt{662298}e^3 \otimes e_8$	{123459, 168, 2367, 45789}
9531:3	$0, 0, 0, 0, \frac{1}{89}\sqrt{2090}e^{12}, \frac{12}{89}\sqrt{55}e^{13}, \frac{1}{89}\sqrt{1870}e^{25}, \frac{1}{89}\sqrt{2090}e^{15},$ $\frac{1}{89}\sqrt{1870}e^{27}$	$(-\frac{1}{89}, \frac{17}{178}, \frac{53}{89}, -\frac{57}{89}, \frac{15}{178}, \frac{52}{89}, \frac{16}{89}, \frac{13}{178}, \frac{49}{178})$ $+\frac{2}{89}\sqrt{4015}e^3 \otimes e_4$	{123589, 1245689, 13, 146, 23678, 2478, 35679, 4579}
9531:3	$0, 0, 0, 0, \frac{24}{4105}\sqrt{629}e^{12}, \frac{6}{4105}\sqrt{19686}e^{13}, \frac{6}{4105}\sqrt{13787}e^{25},$ $\frac{6}{4105}\sqrt{663}e^{15}, \frac{6}{4105}\sqrt{19907}e^{27}$	$(\frac{297}{4105}, -\frac{102}{4105}, -\frac{141}{821}, \frac{453}{4105}, \frac{39}{821}, -\frac{408}{4105}, \frac{93}{4105}, \frac{492}{4105}, -\frac{9}{4105})$ $+\frac{6}{4105}\sqrt{27761}e^1 \otimes e_9 + \frac{6}{4105}\sqrt{34323}e^2 \otimes e_6$	{123478, 12378, 24589, 2589}
9531:4	$0, 0, 0, 0, \frac{18}{149}\sqrt{10}e^{12}, \frac{9}{149}\sqrt{38}e^{13}, \frac{9}{149}\sqrt{30}e^{15},$ $\frac{9}{149}\sqrt{86}e^{25} + \frac{9}{149}\sqrt{30}e^{34}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{36}{149}, \frac{63}{149}, -\frac{18}{149}, \frac{9}{149}, \frac{36}{149}, -\frac{18}{149}, \frac{45}{149}, -\frac{45}{149})$ $+\frac{18}{149}\sqrt{41}e^2 \otimes e_9 + \frac{90}{149}e^3 \otimes e_4$	{2356, 245, 3679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:4	$0, 0, 0, 0, \frac{18}{149}\sqrt{10}e^{12}, \frac{9}{149}\sqrt{38}e^{13}, \frac{9}{149}\sqrt{30}e^{15},$ $\frac{9}{149}\sqrt{86}e^{25} + \frac{9}{149}\sqrt{30}e^{34}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{36}{149}, \frac{63}{149}, -\frac{18}{149}, \frac{9}{149}, \frac{36}{149}, -\frac{18}{149}, \frac{45}{149}, -\frac{45}{149})$ $+\frac{18}{149}\sqrt{41}e^2 \otimes e_9 - \frac{90}{149}e^3 \otimes e_4$	{2356, 245, 3679, 479}
9531:4	$0, 0, 0, 0, \frac{2}{1381}\sqrt{84939}e^{12}, \frac{2}{1381}\sqrt{131717}e^{13}, \frac{2}{1381}\sqrt{18465}e^{15},$ $\frac{1}{1381}\sqrt{169878}e^{25} + \frac{2}{1381}\sqrt{253586}e^{34}, \frac{1}{1381}\sqrt{1070970}e^{17}$	$(-\frac{306}{1381}, \frac{442}{1381}, \frac{755}{1381}, -\frac{177}{1381}, \frac{136}{1381}, \frac{449}{1381}, -\frac{170}{1381}, \frac{578}{1381}, -\frac{476}{1381})$ $+\frac{2}{1381}\sqrt{705363}e^3 \otimes e_9$	{1245689, 1378, 2346, 579}
9531:4	$0, 0, 0, 0, \frac{6}{415}\sqrt{966}e^{12}, \frac{18}{415}\sqrt{273}e^{13}, \frac{6}{415}\sqrt{1491}e^{15},$ $\frac{3}{415}\sqrt{9786}e^{25} + \frac{6}{415}\sqrt{1491}e^{34}, \frac{3}{415}\sqrt{3990}e^{17}$	$(-\frac{48}{415}, \frac{18}{83}, -\frac{51}{415}, \frac{183}{415}, \frac{42}{415}, -\frac{99}{415}, -\frac{6}{415}, \frac{132}{415}, -\frac{54}{415})$ $+\frac{6}{415}\sqrt{3927}e^2 \otimes e_6$	{12348, 156789, 2459, 367}
9531:4	$0, 0, 0, 0, \frac{16}{3815}\sqrt{573}e^{12}, \frac{16}{3815}\sqrt{718}e^{13}, \frac{16}{3815}\sqrt{1042}e^{15},$ $\frac{16}{3815}\sqrt{87}e^{25} + \frac{32}{3815}\sqrt{385}e^{34}, \frac{32}{3815}\sqrt{330}e^{17}$	$(\frac{104}{3815}, -\frac{64}{3815}, -\frac{80}{763}, \frac{376}{3815}, \frac{8}{763}, -\frac{296}{3815}, \frac{144}{3815}, -\frac{24}{3815}, \frac{248}{3815})$ $+\frac{48}{3815}\sqrt{166}e^4 \otimes e_9 - \frac{48}{3815}\sqrt{211}e^1 \otimes e_8$	{123467, 159, 235789, 468}
9531:4	$0, 0, 0, 0, \frac{16}{3815}\sqrt{573}e^{12}, \frac{16}{3815}\sqrt{718}e^{13}, \frac{16}{3815}\sqrt{1042}e^{15},$ $\frac{16}{3815}\sqrt{87}e^{25} + \frac{32}{3815}\sqrt{385}e^{34}, \frac{32}{3815}\sqrt{330}e^{17}$	$(\frac{104}{3815}, -\frac{64}{3815}, -\frac{80}{763}, \frac{376}{3815}, \frac{8}{763}, -\frac{296}{3815}, \frac{144}{3815}, -\frac{24}{3815}, \frac{248}{3815})$ $+\frac{48}{3815}\sqrt{166}e^4 \otimes e_9 + \frac{48}{3815}\sqrt{211}e^1 \otimes e_8$	{123467, 159, 235789, 468}
9531:4	$0, 0, 0, 0, \frac{9}{809}\sqrt{146}e^{12}, \frac{9}{809}\sqrt{966}e^{13}, \frac{9}{809}\sqrt{538}e^{15},$ $\frac{9}{809}\sqrt{710}e^{25} + \frac{9}{809}\sqrt{538}e^{34}, \frac{45}{809}\sqrt{14}e^{17}$	$(-\frac{81}{809}, \frac{99}{809}, \frac{99}{809}, \frac{18}{809}, \frac{18}{809}, \frac{18}{809}, -\frac{63}{809}, \frac{117}{809}, -\frac{144}{809})$ $+\frac{18}{809}\sqrt{141}e^3 \otimes e_4 + \frac{36}{809}\sqrt{62}e^2 \otimes e_6$	{2459, 367}
9531:4	$0, 0, 0, 0, \frac{1}{233}\sqrt{23010}e^{12}, \frac{9}{233}\sqrt{118}e^{13}, \frac{1}{233}\sqrt{1770}e^{15},$ $\frac{9}{233}\sqrt{354}e^{25} + \frac{1}{233}\sqrt{1770}e^{34}, \frac{1}{233}\sqrt{23010}e^{17}$	$(-\frac{59}{233}, \frac{87}{233}, \frac{71}{233}, \frac{44}{233}, \frac{28}{233}, \frac{12}{233}, -\frac{31}{233}, \frac{115}{233}, -\frac{90}{233})$ $+\frac{2}{233}\sqrt{17169}e^2 \otimes e_9$	{235, 2456, 379, 4679}
9531:4	$0, 0, 0, 0, \frac{1}{209}\sqrt{9462}e^{12}, \frac{1}{209}\sqrt{53286}e^{13}, \frac{1}{209}\sqrt{18426}e^{15},$ $\frac{1}{209}\sqrt{17430}e^{25} + \frac{1}{209}\sqrt{18426}e^{34}, \frac{1}{209}\sqrt{9462}e^{17}$	$(-\frac{1}{209}, \frac{15}{209}, \frac{139}{209}, -\frac{10}{19}, \frac{14}{209}, \frac{138}{209}, \frac{13}{209}, \frac{29}{209}, \frac{12}{209})$ $+\frac{2}{209}\sqrt{22161}e^3 \otimes e_4$	{123579, 1245679, 13, 146}
9531:4	$0, 0, 0, 0, \frac{9}{493}\sqrt{218}e^{12}, \frac{189}{493}\sqrt{2}e^{13}, \frac{9}{493}\sqrt{478}e^{15},$ $\frac{18}{493}\sqrt{182}e^{25} + \frac{18}{493}\sqrt{73}e^{34}, \frac{9}{493}\sqrt{122}e^{17}$	$(-\frac{81}{493}, \frac{117}{493}, \frac{36}{493}, \frac{117}{493}, \frac{36}{493}, -\frac{45}{493}, -\frac{45}{493}, \frac{9}{29}, -\frac{126}{493})$ $+\frac{27}{493}\sqrt{62}e^3 \otimes e_9 + \frac{9}{493}\sqrt{1238}e^2 \otimes e_6$	{12348, 156789, 2459, 367}
9531:4	$0, 0, 0, 0, \frac{9}{493}\sqrt{218}e^{12}, \frac{189}{493}\sqrt{2}e^{13}, \frac{9}{493}\sqrt{478}e^{15},$ $\frac{18}{493}\sqrt{182}e^{25} + \frac{18}{493}\sqrt{73}e^{34}, \frac{9}{493}\sqrt{122}e^{17}$	$(-\frac{81}{493}, \frac{117}{493}, \frac{36}{493}, \frac{117}{493}, \frac{36}{493}, -\frac{45}{493}, -\frac{45}{493}, \frac{9}{29}, -\frac{126}{493})$ $-\frac{27}{493}\sqrt{62}e^3 \otimes e_9 + \frac{9}{493}\sqrt{1238}e^2 \otimes e_6$	{12348, 156789, 2459, 367}
9531:4	$0, 0, 0, 0, \frac{18}{251}\sqrt{62}e^{12}, \frac{270}{251}e^{13}, \frac{18}{251}\sqrt{139}e^{15},$ $\frac{9}{251}\sqrt{794}e^{25} + \frac{18}{251}\sqrt{187}e^{34}, \frac{9}{251}\sqrt{566}e^{17}$	$(0, \frac{18}{251}, -\frac{63}{251}, \frac{99}{251}, \frac{18}{251}, -\frac{63}{251}, \frac{18}{251}, \frac{36}{251}, \frac{18}{251})$ $+\frac{18}{251}\sqrt{263}e^2 \otimes e_6 + \frac{216}{251}e^4 \otimes e_9$	{2459, 367}
9531:4	$0, 0, 0, 0, \frac{2}{1363}\sqrt{14865}e^{12}, \frac{1}{1363}\sqrt{961270}e^{13}, \frac{1}{1363}\sqrt{640186}e^{15},$ $\frac{1}{1363}\sqrt{541086}e^{25} + \frac{1}{1363}\sqrt{1401274}e^{34}, \frac{1}{1363}\sqrt{300273}e^{17}$	$(-\frac{263}{1363}, \frac{454}{1363}, -\frac{11}{1363}, \frac{656}{1363}, \frac{191}{1363}, \frac{274}{1363}, -\frac{72}{1363}, \frac{645}{1363}, -\frac{335}{1363})$ $+\frac{48}{1363}\sqrt{991}e^4 \otimes e_9$	{123467, 159, 235789, 468}
9531:5	$0, 0, 0, 0, \frac{6}{3577}\sqrt{83981}e^{12}, \frac{30}{3577}\sqrt{4110}e^{13}, \frac{6}{3577}\sqrt{25345}e^{25},$ $\frac{6}{3577}\sqrt{157413}e^{15} + \frac{6}{3577}\sqrt{59595}e^{34}, \frac{12}{3577}\sqrt{33839}e^{27}$	$(\frac{1065}{3577}, -\frac{822}{3577}, \frac{279}{3577}, \frac{21}{73}, \frac{243}{3577}, \frac{192}{511}, -\frac{579}{3577}, \frac{1308}{3577}, -\frac{1401}{3577})$ $+\frac{6}{3577}\sqrt{408671}e^1 \otimes e_9$	{135, 1456, 3679, 479}
9531:5	$0, 0, 0, 0, \frac{76}{2877}\sqrt{67}e^{12}, \frac{19}{2877}\sqrt{2167}e^{13}, \frac{19}{2877}\sqrt{593}e^{25},$ $\frac{19}{2877}\sqrt{1306}e^{15} + \frac{19}{2877}\sqrt{1631}e^{34}, \frac{19}{2877}\sqrt{1522}e^{27}$	$(\frac{114}{959}, -\frac{95}{959}, -\frac{152}{2877}, \frac{551}{2877}, \frac{19}{959}, \frac{190}{2877}, -\frac{76}{959}, \frac{19}{137}, -\frac{171}{959})$ $+\frac{19}{2877}\sqrt{3021}e^3 \otimes e_9 + \frac{38}{2877}\sqrt{565}e^4 \otimes e_6$	{134, 23678}
9531:5	$0, 0, 0, 0, \frac{152}{3489}\sqrt{85}e^{12}, \frac{152}{3489}\sqrt{355}e^{13}, \frac{38}{3489}\sqrt{2105}e^{25},$ $\frac{38}{3489}\sqrt{3235}e^{15} + \frac{1900}{3489}\sqrt{2}e^{34}, \frac{76}{3489}\sqrt{370}e^{27}$	$(\frac{133}{1163}, \frac{57}{1163}, -\frac{1520}{3489}, \frac{2489}{3489}, \frac{190}{1163}, -\frac{1121}{3489}, \frac{247}{1163}, \frac{323}{1163}, \frac{304}{1163})$ $+\frac{494}{3489}\sqrt{85}e^4 \otimes e_6$	{134, 16, 23678, 2478}
9531:5	$0, 0, 0, 0, \frac{18}{313}\sqrt{3}e^{12}, \frac{60}{313}\sqrt{5}e^{13}, \frac{6}{313}\sqrt{362}e^{25},$ $\frac{12}{313}\sqrt{57}e^{15} + \frac{6}{313}\sqrt{47}e^{34}, \frac{6}{313}\sqrt{277}e^{27}$	$(-\frac{42}{313}, \frac{48}{313}, \frac{18}{313}, -\frac{54}{313}, \frac{6}{313}, -\frac{24}{313}, \frac{54}{313}, -\frac{36}{313}, \frac{102}{313})$ $+\frac{6}{313}\sqrt{394}e^3 \otimes e_4 + \frac{6}{313}\sqrt{727}e^2 \otimes e_6$	{1237, 2459}
9531:5	$0, 0, 0, 0, \frac{2}{439}\sqrt{12742}e^{12}, \frac{1}{439}\sqrt{92518}e^{13}, \frac{1}{439}\sqrt{29362}e^{25},$ $\frac{1}{439}\sqrt{50414}e^{15} + \frac{11}{439}\sqrt{554}e^{34}, \frac{1}{439}\sqrt{98058}e^{27}$	$(\frac{84}{439}, -\frac{70}{439}, \frac{151}{439}, -\frac{53}{439}, \frac{14}{439}, \frac{235}{439}, -\frac{56}{439}, \frac{98}{439}, -\frac{126}{439})$ $+\frac{1}{439}\sqrt{205534}e^3 \otimes e_9$	{1245689, 134, 23678, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:5	$0, 0, 0, 0, \frac{57}{7849} \sqrt{986}e^{12}, \frac{228}{7849} \sqrt{258}e^{13}, \frac{114}{7849} \sqrt{5}e^{25},$ $\frac{57}{7849} \sqrt{1830}e^{15} + \frac{57}{7849} \sqrt{498}e^{34}, \frac{285}{7849} \sqrt{122}e^{27}$	$(\frac{1596}{7849}, -\frac{1083}{7849}, -\frac{1368}{7849}, \frac{3477}{7849}, \frac{513}{7849}, \frac{228}{7849}, -\frac{570}{7849}, \frac{2109}{7849}, -\frac{1653}{7849})$ $+ \frac{171}{7849} \sqrt{618}e^4 \otimes e_6 + \frac{57}{7849} \sqrt{8246}e^1 \otimes e_9$	{235689, 24589}
9531:5	$0, 0, 0, 0, \frac{11}{1061} \sqrt{170}e^{12}, \frac{22}{1061} \sqrt{230}e^{13}, \frac{22}{1061} \sqrt{293}e^{25},$ $\frac{22}{1061} \sqrt{182}e^{15} + \frac{11}{1061} \sqrt{586}e^{34}, \frac{11}{1061} \sqrt{1358}e^{27}$	$(\frac{33}{1061}, \frac{22}{1061}, -\frac{253}{1061}, \frac{341}{1061}, \frac{55}{1061}, -\frac{220}{1061}, \frac{77}{1061}, \frac{88}{1061}, \frac{99}{1061})$ $+ \frac{11}{1061} \sqrt{2294}e^2 \otimes e_6 + \frac{44}{1061} \sqrt{91}e^4 \otimes e_9$	{12347, 259}
9531:5	$0, 0, 0, 0, \frac{3}{298} \sqrt{163}e^{12}, \frac{9}{149} \sqrt{10}e^{13}, \frac{3}{149} \sqrt{55}e^{25},$ $\frac{3}{298} \sqrt{42}e^{15} + \frac{3}{298} \sqrt{93}e^{34}, \frac{21}{298} \sqrt{7}e^{27}$	$(\frac{6}{149}, -\frac{3}{149}, -\frac{18}{149}, \frac{27}{149}, \frac{3}{149}, -\frac{12}{149}, 0, \frac{9}{149}, -\frac{3}{149})$ $+ \frac{21}{298} \sqrt{10}e^1 \otimes e_9 + \frac{3}{298} \sqrt{579}e^2 \otimes e_6$	{123478, 2589}
9531:5	$0, 0, 0, 0, \frac{2}{3377} \sqrt{795491}e^{12}, \frac{4}{3377} \sqrt{735258}e^{13}, \frac{8}{3377} \sqrt{39463}e^{25},$ $\frac{16}{3377} \sqrt{10385}e^{15} + \frac{4}{3377} \sqrt{87234}e^{34}, \frac{10}{3377} \sqrt{27001}e^{27}$	$(-\frac{11}{307}, \frac{346}{3377}, \frac{2129}{3377}, -\frac{2025}{3377}, \frac{225}{3377}, \frac{2008}{3377}, \frac{571}{3377}, \frac{104}{3377}, \frac{917}{3377})$ $+ \frac{2}{3377} \sqrt{5784445}e^3 \otimes e_4$	{13, 146, 35679, 4579}
9531:5	$0, 0, 0, 0, \frac{1}{57} \sqrt{318}e^{12}, \frac{1}{57} \sqrt{106}e^{13}, \frac{1}{57} \sqrt{530}e^{25},$ $\frac{1}{57} \sqrt{530}e^{15} + \frac{1}{57} \sqrt{2226}e^{34}, \frac{1}{57} \sqrt{530}e^{27}$	$(\frac{1}{3}, -\frac{4}{19}, -\frac{10}{57}, \frac{12}{19}, \frac{7}{57}, \frac{3}{19}, -\frac{5}{57}, \frac{26}{57}, -\frac{17}{57})$ $+ \frac{1}{57} \sqrt{4982}e^4 \otimes e_9$	{1235689, 1346, 24678, 5679}
9531:5	$0, 0, 0, 0, \frac{1}{913} \sqrt{95722}e^{12}, \frac{2}{913} \sqrt{75570}e^{13}, \frac{2}{913} \sqrt{83585}e^{25},$ $\frac{2}{913} \sqrt{41678}e^{15} + \frac{1}{913} \sqrt{458}e^{34}, \frac{7}{913} \sqrt{5038}e^{27}$	$(-\frac{103}{913}, \frac{174}{913}, -\frac{181}{913}, \frac{149}{913}, \frac{71}{913}, \frac{284}{913}, \frac{245}{913}, -\frac{32}{913}, \frac{419}{913})$ $+ \frac{1}{913} \sqrt{699366}e^2 \otimes e_6$	{12347, 1456789, 259, 368}
9531:5	$0, 0, 0, 0, \frac{30}{1177} \sqrt{61}e^{12}, \frac{30}{1177} \sqrt{354}e^{13}, \frac{30}{1177} \sqrt{23}e^{25},$ $\frac{30}{1177} \sqrt{195}e^{15} + \frac{30}{1177} \sqrt{141}e^{34}, \frac{30}{1177} \sqrt{238}e^{27}$	$(\frac{15}{107}, -\frac{150}{1177}, \frac{315}{1177}, -\frac{135}{1177}, \frac{15}{1177}, \frac{480}{1177}, -\frac{135}{1177}, \frac{180}{1177}, -\frac{285}{1177})$ $+ \frac{30}{1177} \sqrt{402}e^3 \otimes e_4 + \frac{30}{1177} \sqrt{649}e^1 \otimes e_9$	{135, 1456, 3679, 479}
9531:5	$0, 0, 0, 0, \frac{30}{1177} \sqrt{61}e^{12}, \frac{30}{1177} \sqrt{354}e^{13}, \frac{30}{1177} \sqrt{23}e^{25},$ $\frac{30}{1177} \sqrt{195}e^{15} + \frac{30}{1177} \sqrt{141}e^{34}, \frac{30}{1177} \sqrt{238}e^{27}$	$(\frac{15}{107}, -\frac{150}{1177}, \frac{315}{1177}, -\frac{135}{1177}, \frac{15}{1177}, \frac{480}{1177}, -\frac{135}{1177}, \frac{180}{1177}, -\frac{285}{1177})$ $- \frac{30}{1177} \sqrt{402}e^3 \otimes e_4 + \frac{30}{1177} \sqrt{649}e^1 \otimes e_9$	{135, 1456, 3679, 479}
9531:6	$0, 0, 0, 0, \frac{2}{269} \sqrt{622}e^{12}, \frac{4}{807} \sqrt{27679}e^{34}, \frac{2}{807} \sqrt{31411}e^{15},$ $\frac{2}{269} \sqrt{9019}e^{13} + \frac{2}{807} \sqrt{31411}e^{25}, \frac{10}{807} \sqrt{4354}e^{17}$	$(-\frac{65}{807}, \frac{8}{269}, \frac{16}{269}, \frac{451}{807}, -\frac{41}{807}, \frac{499}{807}, -\frac{106}{807}, -\frac{17}{807}, -\frac{57}{269})$ $+ \frac{4}{807} \sqrt{51626}e^4 \otimes e_9$	{123478, 135689, 235679, 34}
9531:6	$0, 0, 0, 0, \frac{15}{224} e^{12}, \frac{5}{224} \sqrt{290}e^{34}, \frac{5}{112} \sqrt{42}e^{15},$ $\frac{5}{224} \sqrt{26}e^{13} + \frac{15}{112} \sqrt{2}e^{25}, \frac{15}{56} e^{17}$	$(\frac{15}{112}, -\frac{25}{224}, -\frac{25}{112}, \frac{15}{112}, \frac{5}{224}, -\frac{5}{56}, \frac{5}{32}, -\frac{5}{56}, \frac{65}{224})$ $+ \frac{45}{224} \sqrt{6}e^1 \otimes e_6 - \frac{5}{32} \sqrt{6}e^4 \otimes e_8$	{1278, 1589, 245679, 46}
9531:6	$0, 0, 0, 0, \frac{15}{224} e^{12}, \frac{5}{224} \sqrt{290}e^{34}, \frac{5}{112} \sqrt{42}e^{15},$ $\frac{5}{224} \sqrt{26}e^{13} + \frac{15}{112} \sqrt{2}e^{25}, \frac{15}{56} e^{17}$	$(\frac{15}{112}, -\frac{25}{224}, -\frac{25}{112}, \frac{15}{112}, \frac{5}{224}, -\frac{5}{56}, \frac{5}{32}, -\frac{5}{56}, \frac{65}{224})$ $+ \frac{45}{224} \sqrt{6}e^1 \otimes e_6 + \frac{5}{32} \sqrt{6}e^4 \otimes e_8$	{1278, 1589, 245679, 46}
9531:6	$0, 0, 0, 0, \frac{21}{884} \sqrt{541}e^{12}, \frac{21}{442} \sqrt{69}e^{34}, \frac{21}{442} \sqrt{10}e^{15},$ $\frac{63}{884} \sqrt{62}e^{13} + \frac{21}{442} \sqrt{177}e^{25}, \frac{21}{884} \sqrt{541}e^{17}$	$(-\frac{147}{884}, \frac{21}{104}, \frac{21}{52}, -\frac{21}{221}, \frac{63}{1768}, \frac{21}{68}, -\frac{231}{1768}, \frac{105}{442}, -\frac{525}{1768})$ $+ \frac{189}{884} \sqrt{2}e^3 \otimes e_4 + \frac{21}{442} \sqrt{334}e^2 \otimes e_9$	{123678, 135689}
9531:6	$0, 0, 0, 0, \frac{16}{3911} \sqrt{293}e^{12}, \frac{344}{3911} e^{34}, \frac{8}{3911} \sqrt{238}e^{15},$ $\frac{16}{3911} \sqrt{409}e^{13} + \frac{8}{3911} \sqrt{1335}e^{25}, \frac{8}{3911} \sqrt{727}e^{17}$	$(-\frac{88}{3911}, \frac{100}{3911}, \frac{200}{3911}, -\frac{132}{3911}, \frac{12}{3911}, \frac{68}{3911}, -\frac{76}{3911}, \frac{112}{3911}, -\frac{164}{3911})$ $+ \frac{16}{3911} \sqrt{326}e^4 \otimes e_9 + \frac{8}{3911} \sqrt{2194}e^2 \otimes e_6$	{123478, 135689}
9531:6	$0, 0, 0, 0, \frac{18}{4733} \sqrt{714}e^{12}, \frac{18}{4733} \sqrt{1866}e^{34}, \frac{18}{4733} \sqrt{1239}e^{15},$ $\frac{18}{4733} \sqrt{865}e^{13} + \frac{18}{4733} \sqrt{53}e^{25}, \frac{36}{4733} \sqrt{407}e^{17}$	$(\frac{189}{4733}, -\frac{234}{4733}, -\frac{468}{4733}, \frac{495}{4733}, -\frac{45}{4733}, \frac{27}{4733}, \frac{144}{4733}, -\frac{279}{4733}, \frac{333}{4733})$ $+ \frac{36}{4733} \sqrt{457}e^4 \otimes e_9 + \frac{36}{4733} \sqrt{593}e^1 \otimes e_6$	{123478, 235679}
9531:6	$0, 0, 0, 0, \frac{6}{815} \sqrt{6601}e^{12}, \frac{12}{815} \sqrt{897}e^{34}, \frac{24}{815} \sqrt{46}e^{15},$ $\frac{18}{815} \sqrt{851}e^{13} + \frac{12}{815} \sqrt{2139}e^{25}, \frac{6}{815} \sqrt{6601}e^{17}$	$(-\frac{138}{815}, \frac{156}{815}, \frac{312}{815}, -\frac{21}{815}, \frac{18}{815}, \frac{291}{815}, -\frac{24}{163}, \frac{174}{815}, -\frac{258}{815})$ $+ \frac{12}{815} \sqrt{3910}e^2 \otimes e_9$	{123478, 123678, 134589, 135689}
9531:6	$0, 0, 0, 0, \frac{299}{1436} \sqrt{3}e^{12}, \frac{299}{718} e^{34}, \frac{69}{1436} \sqrt{82}e^{15},$ $\frac{23}{1436} \sqrt{210}e^{13} + \frac{23}{1436} \sqrt{186}e^{25}, \frac{299}{1436} \sqrt{3}e^{17}$	$(\frac{69}{718}, \frac{69}{2872}, \frac{69}{1436}, -\frac{359}{2872}, \frac{345}{2872}, -\frac{391}{1436}, \frac{621}{2872}, \frac{207}{1436}, \frac{897}{2872})$ $+ \frac{23}{1436} \sqrt{634}e^3 \otimes e_4 + \frac{23}{718} \sqrt{462}e^1 \otimes e_6$	{2356789, 368}
9531:6	$0, 0, 0, 0, \frac{28}{4643} \sqrt{474}e^{12}, \frac{28}{4643} \sqrt{1481}e^{34}, \frac{84}{4643} \sqrt{110}e^{15},$ $\frac{28}{4643} \sqrt{2}e^{13} + \frac{28}{4643} e^{25}, \frac{588}{4643} \sqrt{3}e^{17}$	$(-\frac{42}{4643}, \frac{266}{4643}, \frac{532}{4643}, -\frac{966}{4643}, \frac{224}{4643}, -\frac{434}{4643}, \frac{182}{4643}, \frac{490}{4643}, \frac{140}{4643})$ $+ \frac{252}{4643} \sqrt{30}e^1 \otimes e_6 + \frac{28}{4643} \sqrt{1698}e^3 \otimes e_9$	{12347, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:6	$0, 0, 0, 0, \frac{192}{2567}\sqrt{23}e^{12}, \frac{32}{2567}\sqrt{1109}e^{34}, \frac{32}{2567}\sqrt{62}e^{15},$ $\frac{64}{2567}\sqrt{190}e^{13} + \frac{32}{2567}\sqrt{899}e^{25}, \frac{160}{2567}\sqrt{11}e^{17}$	$(-\frac{80}{2567}, \frac{16}{151}, \frac{32}{151}, -\frac{784}{2567}, \frac{192}{2567}, -\frac{240}{2567}, \frac{112}{2567}, \frac{464}{2567}, \frac{32}{2567})$ $+\frac{64}{2567}\sqrt{142}e^3 \otimes e_9 + \frac{96}{2567}\sqrt{186}e^2 \otimes e_6$	{123478, 36}
9531:6	$0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{14}\sqrt{21}e^{34}, \frac{1}{28}\sqrt{14}e^{15},$ $\frac{1}{28}\sqrt{70}e^{13} + \frac{1}{42}\sqrt{357}e^{25}, \frac{1}{12}\sqrt{15}e^{17}$	$(-\frac{1}{12}, \frac{1}{24}, \frac{1}{12}, \frac{1}{4}, -\frac{1}{24}, \frac{1}{3}, -\frac{1}{8}, 0, -\frac{5}{24})$ $+\frac{1}{28}\sqrt{210}e^2 \otimes e_9 + \frac{1}{84}\sqrt{1218}e^4 \otimes e_8$	{2345, 3479}
9531:6	$0, 0, 0, 0, \frac{2}{101}\sqrt{665}e^{12}, \frac{14}{101}\sqrt{14}e^{34}, \frac{6}{101}\sqrt{7}e^{15},$ $\frac{4}{101}\sqrt{161}e^{13} + \frac{2}{101}\sqrt{665}e^{25}, \frac{6}{101}\sqrt{7}e^{17}$	$(\frac{9}{202}, \frac{6}{101}, \frac{12}{101}, -\frac{34}{101}, \frac{21}{202}, -\frac{22}{101}, \frac{15}{101}, \frac{33}{202}, \frac{39}{202})$ $+\frac{4}{101}\sqrt{301}e^2 \otimes e_6$	{123478, 135689, 234579, 36}
9531:6	$0, 0, 0, 0, \frac{2}{17}\sqrt{21}e^{12}, \frac{2}{17}\sqrt{22}e^{34}, \frac{2}{17}\sqrt{3}e^{15},$ $\frac{4}{17}\sqrt{6}e^{13} + \frac{2}{17}\sqrt{21}e^{25}, \frac{2}{17}\sqrt{3}e^{17}$	$(\frac{3}{34}, 0, 0, -\frac{4}{17}, \frac{3}{34}, -\frac{4}{17}, \frac{3}{17}, \frac{3}{34}, \frac{9}{34})$ $+\frac{12}{17}e^2 \otimes e_6 + \frac{4}{17}\sqrt{2}e^3 \otimes e_4$	{123478, 234579}
9531:6	$0, 0, 0, 0, \frac{1}{86}\sqrt{1590}e^{12}, \frac{1}{43}\sqrt{530}e^{34}, \frac{1}{86}\sqrt{1590}e^{15},$ $\frac{1}{43}\sqrt{2226}e^{13} + \frac{1}{86}\sqrt{1590}e^{25}, \frac{1}{86}\sqrt{1590}e^{17}$	$(-\frac{15}{172}, \frac{27}{86}, \frac{27}{43}, -\frac{26}{43}, \frac{39}{172}, \frac{43}{43}, \frac{6}{43}, \frac{93}{172}, \frac{9}{172})$ $+\frac{1}{43}\sqrt{3922}e^3 \otimes e_4$	{1245789, 148, 247, 459}
9531:6	$0, 0, 0, 0, \frac{32}{3983}\sqrt{301}e^{12}, \frac{16}{3983}\sqrt{1637}e^{34}, \frac{16}{3983}\sqrt{114}e^{15},$ $\frac{64}{3983}\sqrt{58}e^{13} + \frac{80}{3983}\sqrt{67}e^{25}, \frac{16}{3983}\sqrt{43}e^{17}$	$(\frac{200}{3983}, -\frac{152}{3983}, -\frac{304}{3983}, \frac{24}{3983}, \frac{48}{3983}, -\frac{40}{569}, \frac{248}{3983}, -\frac{104}{3983}, \frac{64}{569})$ $+\frac{32}{3983}\sqrt{314}e^4 \otimes e_8 + \frac{48}{3983}\sqrt{258}e^2 \otimes e_6$	{135678, 2345}
9531:6	$0, 0, 0, 0, \frac{9}{1876}\sqrt{1163}e^{12}, \frac{117}{1876}\sqrt{6}e^{34}, \frac{9}{1876}\sqrt{770}e^{15},$ $\frac{135}{938}e^{13} + \frac{9}{938}\sqrt{183}e^{25}, \frac{9}{1876}\sqrt{1163}e^{17}$	$(-\frac{27}{1876}, \frac{171}{3752}, \frac{171}{1876}, -\frac{279}{1876}, \frac{117}{3752}, -\frac{27}{469}, \frac{9}{536}, \frac{36}{469}, \frac{9}{3752})$ $+\frac{9}{1876}\sqrt{1610}e^2 \otimes e_9 + \frac{9}{1876}\sqrt{1686}e^1 \otimes e_6$	{123478, 134589}
9531:6	$0, 0, 0, 0, \frac{4}{359}\sqrt{390}e^{12}, \frac{4}{359}\sqrt{1235}e^{34}, \frac{4}{359}\sqrt{390}e^{15},$ $\frac{4}{359}\sqrt{962}e^{13} + \frac{4}{359}\sqrt{663}e^{25}, \frac{4}{359}\sqrt{663}e^{17}$	$(-\frac{30}{359}, \frac{14}{359}, \frac{28}{359}, \frac{102}{359}, -\frac{16}{359}, \frac{130}{359}, -\frac{46}{359}, -\frac{2}{359}, -\frac{76}{359})$ $+\frac{36}{359}\sqrt{26}e^3 \otimes e_9 + \frac{36}{359}\sqrt{26}e^4 \otimes e_8$	{123457, 3568}
9531:6	$0, 0, 0, 0, \frac{4}{847}\sqrt{10887}e^{12}, \frac{8}{847}\sqrt{3629}e^{34}, \frac{6}{847}\sqrt{6685}e^{15},$ $\frac{2}{847}\sqrt{12415}e^{13} + \frac{2}{847}\sqrt{6303}e^{25}, \frac{4}{847}\sqrt{10887}e^{17}$	$(\frac{141}{847}, -\frac{4}{77}, -\frac{8}{77}, -\frac{153}{847}, \frac{97}{847}, -\frac{241}{847}, \frac{34}{121}, \frac{53}{847}, \frac{379}{847})$ $+\frac{4}{847}\sqrt{33234}e^1 \otimes e_6$	{127, 159, 2456789, 468}
9531:7	$0, 0, 0, 0, \frac{12}{395}\sqrt{667}e^{12}, \frac{138}{395}\sqrt{3}e^{13}, \frac{6}{395}\sqrt{1081}e^{15}, \frac{12}{395}\sqrt{138}e^{36},$ $\frac{12}{395}\sqrt{667}e^{17}$	$(-\frac{138}{395}, \frac{279}{395}, \frac{117}{395}, \frac{72}{395}, \frac{141}{395}, -\frac{21}{395}, \frac{3}{395}, \frac{96}{395}, -\frac{27}{79})$ $+\frac{6}{395}\sqrt{7429}e^2 \otimes e_9$	{123467, 12367, 1247, 127, 134569, 13569, 1459, 159}
9531:7	$0, 0, 0, 0, \frac{1}{1065}\sqrt{75594}e^{12}, \frac{1}{1065}\sqrt{136538}e^{13}, \frac{2}{1065}\sqrt{55670}e^{15},$ $\frac{2}{355}\sqrt{5567}e^{36}, \frac{1}{355}\sqrt{27542}e^{17}$	$(\frac{233}{1065}, -\frac{353}{1065}, -\frac{51}{71}, \frac{171}{355}, -\frac{8}{71}, \frac{16}{213}, \frac{113}{1065}, -\frac{73}{1065}, \frac{346}{1065})$ $+\frac{1}{1065}\sqrt{443602}e^4 \otimes e_8 + \frac{4}{1065}\sqrt{40434}e^1 \otimes e_2$	{1378, 1678, 2346, 24}
9531:7	$0, 0, 0, 0, \frac{12}{593}\sqrt{190}e^{12}, \frac{30}{593}\sqrt{3}e^{13}, \frac{6}{593}\sqrt{685}e^{15}, \frac{12}{593}\sqrt{165}e^{36},$ $\frac{12}{593}\sqrt{190}e^{17}$	$(-\frac{30}{593}, \frac{117}{593}, -\frac{45}{593}, \frac{72}{593}, \frac{87}{593}, -\frac{75}{593}, \frac{57}{593}, -\frac{120}{593}, \frac{27}{593})$ $-\frac{108}{593}\sqrt{5}e^1 \otimes e_8 + \frac{6}{593}\sqrt{985}e^2 \otimes e_9$	{123467, 12367, 1247, 127, 134569, 13569, 1459, 159}
9531:7	$0, 0, 0, 0, \frac{12}{593}\sqrt{190}e^{12}, \frac{30}{593}\sqrt{3}e^{13}, \frac{6}{593}\sqrt{685}e^{15}, \frac{12}{593}\sqrt{165}e^{36},$ $\frac{12}{593}\sqrt{190}e^{17}$	$(-\frac{30}{593}, \frac{117}{593}, -\frac{45}{593}, \frac{72}{593}, \frac{87}{593}, -\frac{75}{593}, \frac{57}{593}, -\frac{120}{593}, \frac{27}{593})$ $+\frac{108}{593}\sqrt{5}e^1 \otimes e_8 + \frac{6}{593}\sqrt{985}e^2 \otimes e_9$	{123467, 12367, 1247, 127, 134569, 13569, 1459, 159}
9531:7	$0, 0, 0, 0, \frac{1}{1541}\sqrt{2222094}e^{12}, \frac{1}{1541}\sqrt{476994}e^{13}, \frac{4}{1541}\sqrt{32963}e^{15},$ $\frac{1}{1541}\sqrt{368410}e^{36}, \frac{1}{1541}\sqrt{213290}e^{17}$	$(-\frac{246}{1541}, \frac{968}{1541}, \frac{313}{1541}, -\frac{971}{1541}, \frac{722}{1541}, \frac{1}{23}, \frac{476}{1541}, \frac{380}{1541}, \frac{10}{67})$ $+\frac{4}{1541}\sqrt{304423}e^2 \otimes e_4$	{123679, 1279, 13456, 145, 23578, 25678, 3489, 4689}
9531:7	$0, 0, 0, 0, \frac{6}{4081}\sqrt{38023}e^{12}, \frac{18}{4081}\sqrt{12135}e^{13}, \frac{2}{4081}\sqrt{290431}e^{15},$ $\frac{2}{4081}\sqrt{602705}e^{36}, \frac{20}{4081}\sqrt{4045}e^{17}$	$(\frac{641}{4081}, -\frac{977}{4081}, \frac{25}{371}, -\frac{1343}{4081}, -\frac{48}{583}, \frac{916}{4081}, \frac{305}{4081}, \frac{1191}{4081}, \frac{86}{371})$ $+\frac{2}{4081}\sqrt{1447301}e^3 \otimes e_4 + \frac{2}{4081}\sqrt{1493414}e^1 \otimes e_2$	{1378, 14678, 236, 24}
9531:7	$0, 0, 0, 0, \frac{2}{177}\sqrt{5467}e^{12}, \frac{1}{531}\sqrt{42742}e^{13}, \frac{2}{531}\sqrt{11431}e^{15},$ $\frac{1}{531}\sqrt{175938}e^{36}, \frac{2}{531}\sqrt{4970}e^{17}$	$(-\frac{86}{531}, \frac{37}{59}, -\frac{13}{177}, \frac{95}{531}, \frac{247}{531}, -\frac{125}{531}, \frac{161}{531}, -\frac{164}{531}, \frac{25}{177})$ $+\frac{2}{531}\sqrt{108346}e^2 \otimes e_8$	{1234679, 123679, 12479, 1279, 3489, 389, 4689, 689}
9531:7	$0, 0, 0, 0, \frac{9}{26}\sqrt{3}e^{12}, \frac{9}{26}e^{13}, \frac{9}{13}e^{15}, \frac{9}{104}\sqrt{13}e^{36}, \frac{9}{26}\sqrt{3}e^{17}$	$(\frac{2}{13}, -\frac{9}{208}, \frac{5}{104}, -\frac{5}{8}, \frac{23}{208}, \frac{21}{104}, \frac{55}{208}, \frac{1}{4}, \frac{87}{208})$ $+\frac{9}{8}e^1 \otimes e_4$	{12378, 12678, 13589, 15689, 2345679, 24579, 346, 4}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:7	$0, 0, 0, 0, \frac{26}{1403}\sqrt{355}e^{12}, \frac{26}{1403}\sqrt{385}e^{13}, \frac{78}{1403}\sqrt{5}e^{15},$ $\frac{26}{4209}\sqrt{7015}e^{36}, \frac{182}{4209}\sqrt{30}e^{17}$	$(-\frac{169}{1403}, \frac{559}{1403}, \frac{247}{4209}, -\frac{481}{1403}, \frac{390}{1403}, -\frac{260}{4209}, \frac{221}{1403}, -\frac{13}{4209}, \frac{52}{1403})$ $+\frac{26}{4209}\sqrt{9330}e^2 \otimes e_8 + \frac{26}{4209}\sqrt{9465}e^3 \otimes e_4$	{135789, 1456789, 23569, 2459}
9531:7	$0, 0, 0, 0, \frac{2}{4801}\sqrt{361319}e^{12}, \frac{4}{4801}\sqrt{151585}e^{13}, \frac{24}{4801}\sqrt{1491}e^{15},$ $\frac{4}{4801}\sqrt{114310}e^{36}, \frac{4}{4801}\sqrt{178423}e^{17}$	$(\frac{155}{4801}, -\frac{839}{4801}, \frac{620}{4801}, \frac{475}{4801}, -\frac{684}{4801}, \frac{775}{4801}, -\frac{529}{4801}, \frac{1395}{4801}, -\frac{374}{4801})$ $+\frac{2}{4801}\sqrt{1014377}e^1 \otimes e_2 + \frac{2}{4801}\sqrt{1135645}e^3 \otimes e_9$	{13478, 1378, 2346, 236}
9531:7	$0, 0, 0, 0, \frac{1}{1221}\sqrt{99426}e^{12}, \frac{1}{1221}\sqrt{24062}e^{13}, \frac{4}{407}\sqrt{227}e^{15},$ $\frac{2}{1221}\sqrt{92389}e^{36}, \frac{7}{407}\sqrt{454}e^{17}$	$(-\frac{61}{407}, \frac{80}{407}, \frac{145}{1221}, \frac{17}{37}, \frac{19}{407}, -\frac{38}{1221}, \frac{42}{407}, \frac{107}{1221}, -\frac{103}{407})$ $+\frac{1}{1221}\sqrt{390894}e^4 \otimes e_8 + \frac{4}{1221}\sqrt{37455}e^3 \otimes e_9$	{123578, 1689, 2479, 3456}
9531:7	$0, 0, 0, 0, \frac{1}{11}\sqrt{14}e^{12}, \frac{1}{33}\sqrt{42}e^{13}, \frac{2}{33}\sqrt{42}e^{15}, \frac{2}{33}\sqrt{231}e^{36},$ $\frac{1}{11}\sqrt{14}e^{17}$	$(\frac{1}{33}, \frac{5}{33}, -\frac{5}{33}, \frac{1}{11}, \frac{2}{11}, -\frac{4}{33}, \frac{7}{33}, -\frac{3}{11}, \frac{8}{33})$ $+\frac{1}{33}\sqrt{2226}e^4 \otimes e_8$	{12378, 12678, 13589, 15689, 2345679, 24579, 346, 4}
9531:7	$0, 0, 0, 0, \frac{1}{1581}\sqrt{523410}e^{12}, \frac{1}{1581}\sqrt{126670}e^{13}, \frac{4}{527}\sqrt{1195}e^{15},$ $\frac{1}{1581}\sqrt{1259530}e^{36}, \frac{7}{527}\sqrt{2390}e^{17}$	$(-\frac{122}{527}, \frac{160}{527}, \frac{577}{1581}, \frac{87}{527}, \frac{38}{527}, \frac{211}{1581}, -\frac{84}{527}, \frac{788}{1581}, -\frac{206}{527})$ $+\frac{20}{1581}\sqrt{7887}e^3 \otimes e_9$	{1234578, 123578, 14689, 1689, 2479, 279, 3456, 356}
9531:7	$0, 0, 0, 0, \frac{18}{1601}\sqrt{1419}e^{12}, \frac{55}{1601}\sqrt{258}e^{13}, \frac{2}{1601}\sqrt{313599}e^{15},$ $\frac{1}{1601}\sqrt{269610}e^{36}, \frac{4}{1601}\sqrt{87978}e^{17}$	$(\frac{550}{1601}, -\frac{869}{1601}, -\frac{85}{1601}, \frac{285}{1601}, -\frac{319}{1601}, \frac{465}{1601}, \frac{231}{1601}, \frac{380}{1601}, \frac{781}{1601})$ $+\frac{2}{1601}\sqrt{933702}e^1 \otimes e_2$	{13478, 1378, 14678, 1678, 2, 2346, 236, 24}
9531:7	$0, 0, 0, 0, \frac{3}{784}\sqrt{8215}e^{12}, \frac{3}{784}\sqrt{11130}e^{13}, \frac{3}{392}\sqrt{53}e^{15}, \frac{3}{392}\sqrt{4134}e^{36},$ $\frac{3}{784}\sqrt{8215}e^{17}$	$(-\frac{159}{784}, \frac{675}{1568}, \frac{207}{784}, -\frac{135}{392}, \frac{51}{224}, \frac{3}{49}, \frac{39}{1568}, \frac{255}{784}, -\frac{279}{1568})$ $+\frac{3}{392}\sqrt{8374}e^2 \otimes e_9 + \frac{9}{784}\sqrt{4346}e^3 \otimes e_4$	{2356, 245, 3679, 479}
9531:7	$0, 0, 0, 0, \frac{19}{128}\sqrt{5}e^{12}, \frac{19}{128}\sqrt{34}e^{13}, \frac{19}{192}\sqrt{15}e^{15}, \frac{19}{24}e^{36},$ $\frac{19}{128}\sqrt{5}e^{17}$	$(-\frac{5}{128}, \frac{57}{256}, \frac{103}{384}, -\frac{43}{64}, \frac{47}{256}, \frac{11}{384}, \frac{37}{256}, \frac{191}{384}, \frac{27}{256})$ $+\frac{19}{384}\sqrt{642}e^3 \otimes e_4$	{1235789, 12456789, 138, 1468, 2367, 247, 3569, 459}
9531:7	$0, 0, 0, 0, \frac{4}{107}\sqrt{105}e^{12}, \frac{10}{107}\sqrt{3}e^{13}, \frac{2}{107}\sqrt{345}e^{15}, \frac{4}{107}\sqrt{15}e^{36},$ $\frac{4}{107}\sqrt{105}e^{17}$	$(-\frac{10}{107}, \frac{27}{107}, \frac{13}{107}, -\frac{40}{107}, \frac{17}{107}, \frac{3}{107}, \frac{7}{107}, \frac{16}{107}, -\frac{3}{107})$ $+\frac{2}{107}\sqrt{645}e^2 \otimes e_9 + \frac{4}{107}\sqrt{195}e^1 \otimes e_4$	{12367, 127, 13569, 159}
9531:7	$0, 0, 0, 0, \frac{1}{1057}\sqrt{17810}e^{12}, \frac{2}{1057}\sqrt{28770}e^{13}, \frac{2}{1057}\sqrt{16851}e^{15},$ $\frac{1}{1057}\sqrt{109874}e^{36}, \frac{1}{1057}\sqrt{148782}e^{17}$	$(-\frac{58}{1057}, \frac{13}{151}, \frac{191}{1057}, -\frac{332}{1057}, \frac{33}{1057}, \frac{19}{151}, -\frac{25}{1057}, \frac{324}{1057}, -\frac{83}{1057})$ $+\frac{1}{1057}\sqrt{249614}e^1 \otimes e_4 + \frac{2}{1057}\sqrt{65486}e^3 \otimes e_9$	{12378, 15689, 24579, 346}
9531:7	$0, 0, 0, 0, \frac{1}{363}\sqrt{27010}e^{12}, \frac{2}{1089}\sqrt{370}e^{13}, \frac{10}{1089}\sqrt{1591}e^{15},$ $\frac{1}{363}\sqrt{15910}e^{36}, \frac{1}{1089}\sqrt{78070}e^{17}$	$(-\frac{4}{1089}, \frac{28}{121}, -\frac{19}{363}, -\frac{34}{99}, \frac{248}{1089}, -\frac{61}{1089}, \frac{244}{1089}, -\frac{118}{1089}, \frac{80}{363})$ $+\frac{1}{363}\sqrt{41810}e^1 \otimes e_4 + \frac{2}{1089}\sqrt{82510}e^2 \otimes e_8$	{12367, 127, 348, 468}
9531:7	$0, 0, 0, 0, \frac{21}{1625}\sqrt{206}e^{12}, \frac{3}{1625}\sqrt{57886}e^{13}, \frac{12}{1625}\sqrt{309}e^{15},$ $\frac{3}{1625}\sqrt{78074}e^{36}, \frac{3}{1625}\sqrt{55414}e^{17}$	$(-\frac{366}{1625}, \frac{648}{1625}, \frac{477}{1625}, -\frac{279}{1625}, \frac{282}{1625}, \frac{111}{1625}, -\frac{84}{1625}, \frac{588}{1625}, -\frac{18}{65})$ $+\frac{12}{1625}\sqrt{6283}e^2 \otimes e_4 + \frac{24}{1625}\sqrt{2987}e^3 \otimes e_9$	{12689, 134578, 2356, 479}
9531:7	$0, 0, 0, 0, \frac{1}{31}\sqrt{209}e^{12}, \frac{19}{93}\sqrt{3}e^{13}, \frac{1}{93}\sqrt{798}e^{15}, \frac{4}{93}\sqrt{114}e^{36},$ $\frac{1}{31}\sqrt{209}e^{17}$	$(-\frac{19}{93}, \frac{40}{93}, \frac{5}{93}, \frac{16}{31}, \frac{7}{31}, -\frac{14}{93}, \frac{2}{93}, -\frac{3}{31}, -\frac{17}{93})$ $+\frac{1}{31}\sqrt{570}e^2 \otimes e_9 + \frac{1}{93}\sqrt{4161}e^4 \otimes e_8$	{123467, 1247, 134569, 1459}
9531:7	$0, 0, 0, 0, \frac{20}{993}\sqrt{211}e^{12}, \frac{2}{993}\sqrt{12871}e^{13}, \frac{2}{993}\sqrt{38613}e^{15}, \frac{2}{993}\sqrt{7385}e^{36},$ $\frac{4}{993}\sqrt{18146}e^{17}$	$(\frac{122}{993}, -\frac{100}{331}, \frac{3}{331}, \frac{488}{993}, -\frac{178}{993}, \frac{131}{993}, -\frac{56}{993}, \frac{140}{993}, \frac{22}{331})$ $+\frac{2}{993}\sqrt{106555}e^1 \otimes e_2 + \frac{2}{993}\sqrt{80813}e^4 \otimes e_9$	{13478, 14678, 2346, 24}
9531:7	$0, 0, 0, 0, \frac{2}{1299}\sqrt{101566}e^{12}, \frac{4}{3897}\sqrt{105109}e^{13}, \frac{2}{3897}\sqrt{331861}e^{15},$ $\frac{2}{3897}\sqrt{970782}e^{36}, \frac{20}{3897}\sqrt{5905}e^{17}$	$(-\frac{712}{3897}, \frac{188}{433}, \frac{7}{1299}, \frac{1918}{3897}, \frac{980}{3897}, -\frac{691}{3897}, \frac{268}{3897}, -\frac{670}{3897}, -\frac{148}{1299})$ $+\frac{2}{1299}\sqrt{187779}e^4 \otimes e_9 + \frac{2}{3897}\sqrt{2337199}e^2 \otimes e_8$	{123467, 1247, 348, 468}
9531:7	$0, 0, 0, 0, \frac{1}{1541}\sqrt{213290}e^{12}, \frac{1}{1541}\sqrt{476994}e^{13}, \frac{4}{1541}\sqrt{32963}e^{15},$ $\frac{1}{1541}\sqrt{368410}e^{36}, \frac{1}{1541}\sqrt{2222094}e^{17}$	$(-\frac{246}{1541}, \frac{340}{1541}, \frac{313}{1541}, 1, \frac{94}{1541}, \frac{1}{23}, -\frac{152}{1541}, \frac{380}{1541}, -\frac{398}{1541})$ $+\frac{4}{1541}\sqrt{304423}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:7	$0, 0, 0, 0, \frac{2}{3777}\sqrt{228873}e^{12}, \frac{2}{1259}\sqrt{39215}e^{13}, \frac{2}{1259}\sqrt{1426}e^{15},$ $\frac{2}{3777}\sqrt{897667}e^{36}, \frac{6}{1259}\sqrt{4278}e^{17}$	$(-\frac{281}{1259}, \frac{541}{1259}, \frac{520}{3777}, \frac{147}{1259}, \frac{260}{1259}, -\frac{323}{3777}, -\frac{21}{1259}, \frac{197}{3777}, -\frac{302}{1259})$ $+\frac{2}{1259}\sqrt{119071}e^2 \otimes e_8 + \frac{2}{3777}\sqrt{1306929}e^3 \otimes e_9$	{134578, 13578, 23456, 2356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:8	$0, 0, 0, 0, \frac{1}{905} \sqrt{48462}e^{12}, \frac{6}{905} \sqrt{533}e^{13}, \frac{14}{905} \sqrt{246}e^{25}, \frac{14}{905} \sqrt{246}e^{36},$ $\frac{2}{905} \sqrt{14514}e^{27}$	$(\frac{156}{905}, -\frac{41}{905}, -\frac{32}{181}, \frac{114}{905}, \frac{23}{181}, -\frac{4}{905}, \frac{74}{905}, -\frac{164}{905}, \frac{33}{905})$ $+\frac{1}{905} \sqrt{77982}e^1 \otimes e_9 + \frac{6}{905} \sqrt{3239}e^2 \otimes e_8$	{234569, 23569, 2459, 259}
9531:8	$0, 0, 0, 0, \frac{6}{1871} \sqrt{1295}e^{12}, \frac{36}{1871} \sqrt{629}e^{13}, \frac{6}{1871} \sqrt{2849}e^{25},$ $\frac{12}{1871} \sqrt{3219}e^{36}, \frac{6}{1871} \sqrt{12617}e^{27}$	$(\frac{411}{1871}, -\frac{222}{1871}, \frac{84}{1871}, -\frac{582}{1871}, \frac{189}{1871}, \frac{495}{1871}, -\frac{33}{1871}, \frac{579}{1871}, -\frac{255}{1871})$ $+\frac{6}{1871} \sqrt{30081}e^3 \otimes e_4 + \frac{6}{1871} \sqrt{30599}e^1 \otimes e_9$	{12378, 124678, 23569, 2459}
9531:8	$0, 0, 0, 0, \frac{8}{81} \sqrt{42}e^{12}, \frac{16}{81} e^{13}, \frac{8}{27} \sqrt{6}e^{25}, \frac{8}{81} \sqrt{10}e^{36},$ $\frac{16}{81} \sqrt{10}e^{27}$	$(-\frac{4}{81}, \frac{13}{81}, \frac{4}{27}, -\frac{17}{27}, \frac{1}{9}, \frac{8}{81}, \frac{22}{81}, \frac{20}{81}, \frac{35}{81})$ $+\frac{16}{81} \sqrt{33}e^2 \otimes e_4$	{12367, 127, 1345679, 14579, 23589, 25689, 348, 468}
9531:8	$0, 0, 0, 0, \frac{2}{669} \sqrt{27231}e^{12}, \frac{2}{223} \sqrt{313}e^{13}, \frac{1}{669} \sqrt{139598}e^{25},$ $\frac{1}{669} \sqrt{139598}e^{36}, \frac{1}{669} \sqrt{103290}e^{27}$	$(-\frac{12}{223}, \frac{107}{669}, -\frac{85}{669}, \frac{40}{223}, \frac{71}{669}, -\frac{121}{669}, \frac{178}{669}, -\frac{206}{669}, \frac{95}{223})$ $+\frac{1}{223} \sqrt{38186}e^2 \otimes e_8$	{123467, 12367, 1247, 127, 348, 38, 468, 68}
9531:8	$0, 0, 0, 0, \frac{1}{639} \sqrt{67602}e^{12}, \frac{4}{639} \sqrt{17197}e^{13}, \frac{4}{639} \sqrt{2965}e^{25},$ $\frac{1}{639} \sqrt{252618}e^{36}, \frac{1}{639} \sqrt{69974}e^{27}$	$(-\frac{55}{639}, \frac{26}{213}, \frac{194}{639}, -\frac{133}{213}, \frac{23}{639}, \frac{139}{639}, \frac{101}{639}, \frac{37}{71}, \frac{179}{639})$ $+\frac{1}{639} \sqrt{615534}e^3 \otimes e_4$	{123589, 1245689, 138, 1468, 2367, 247, 35679, 4579}
9531:8	$0, 0, 0, 0, \frac{10}{4749} \sqrt{273}e^{12}, \frac{2}{1583} \sqrt{6045}e^{13}, \frac{20}{1583} \sqrt{65}e^{25},$ $\frac{4}{4749} \sqrt{102895}e^{36}, \frac{4}{1583} \sqrt{2795}e^{27}$	$(-\frac{125}{1583}, \frac{49}{1583}, \frac{196}{4749}, \frac{189}{1583}, \frac{76}{1583}, -\frac{179}{4749}, \frac{27}{1583}, \frac{17}{4749}, \frac{22}{1583})$ $+\frac{2}{1583} \sqrt{15405}e^2 \otimes e_8 + \frac{2}{4749} \sqrt{133185}e^3 \otimes e_9$	{1456789, 156789, 2459, 259}
9531:8	$0, 0, 0, 0, \frac{2}{645} \sqrt{23253}e^{12}, \frac{1}{215} \sqrt{19546}e^{13}, \frac{2}{215} \sqrt{674}e^{25},$ $\frac{1}{645} \sqrt{144910}e^{36}, \frac{1}{215} \sqrt{19546}e^{27}$	$(-\frac{1}{43}, -\frac{17}{215}, \frac{169}{645}, \frac{36}{215}, -\frac{22}{215}, \frac{154}{645}, -\frac{39}{215}, \frac{323}{645}, -\frac{56}{215})$ $+\frac{1}{645} \sqrt{361938}e^3 \otimes e_9$	{1245689, 125689, 1348, 138, 23467, 2367, 4579, 579}
9531:8	$0, 0, 0, 0, \frac{8}{1747} \sqrt{4830}e^{12}, \frac{16}{1747} \sqrt{2415}e^{13}, \frac{2}{1747} \sqrt{38157}e^{25},$ $\frac{24}{1747} \sqrt{966}e^{36}, \frac{16}{1747} \sqrt{2415}e^{27}$	$(\frac{640}{1747}, -\frac{322}{1747}, -\frac{371}{1747}, \frac{864}{1747}, \frac{318}{1747}, \frac{269}{1747}, -\frac{4}{1747}, -\frac{102}{1747}, -\frac{326}{1747})$ $+\frac{2}{1747} \sqrt{426489}e^1 \otimes e_9 + \frac{6}{1747} \sqrt{33649}e^4 \otimes e_8$	{12378, 12678, 234569, 2459}
9531:8	$0, 0, 0, 0, \frac{2}{103} \sqrt{579}e^{12}, \frac{2}{309} \sqrt{5597}e^{13}, \frac{4}{309} \sqrt{965}e^{25}, \frac{4}{309} \sqrt{965}e^{36},$ $\frac{8}{309} \sqrt{1351}e^{27}$	$(\frac{58}{309}, -\frac{15}{103}, \frac{11}{309}, \frac{1}{309}, \frac{13}{309}, \frac{23}{103}, -\frac{32}{309}, \frac{80}{309}, -\frac{77}{309})$ $+\frac{2}{309} \sqrt{48057}e^4 \otimes e_9$	{123589, 125689, 1348, 1468, 23467, 247, 35679, 579}
9531:8	$0, 0, 0, 0, \frac{1}{217} \sqrt{12090}e^{12}, \frac{2}{217} \sqrt{6045}e^{13}, \frac{2}{217} \sqrt{1365}e^{25}, \frac{2}{217} \sqrt{1365}e^{36},$ $\frac{2}{217} \sqrt{6045}e^{27}$	$(\frac{4}{7}, -\frac{65}{217}, -\frac{34}{217}, \frac{6}{31}, \frac{59}{217}, \frac{90}{217}, -\frac{6}{217}, \frac{8}{31}, -\frac{71}{217})$ $+\frac{5}{217} \sqrt{2730}e^1 \otimes e_9$	{123478, 12378, 124678, 12678, 234569, 23569, 2459, 259}
9531:8	$0, 0, 0, 0, \frac{3}{491} \sqrt{2870}e^{12}, \frac{18}{491} \sqrt{42}e^{13}, \frac{6}{491} \sqrt{665}e^{25}, \frac{3}{491} \sqrt{546}e^{36},$ $\frac{21}{491} \sqrt{74}e^{27}$	$(\frac{108}{491}, -\frac{42}{491}, -\frac{15}{491}, -\frac{168}{491}, \frac{66}{491}, \frac{93}{491}, \frac{24}{491}, \frac{78}{491}, -\frac{18}{491})$ $+\frac{3}{491} \sqrt{6342}e^2 \otimes e_4 + \frac{6}{491} \sqrt{1442}e^1 \otimes e_9$	{12378, 12678, 23569, 259}
9531:8	$0, 0, 0, 0, \frac{6}{209} \sqrt{697}e^{12}, \frac{1}{627} \sqrt{216070}e^{13}, \frac{4}{627} \sqrt{3485}e^{25}, \frac{4}{627} \sqrt{3485}e^{36},$ $\frac{2}{627} \sqrt{4879}e^{27}$	$(\frac{310}{627}, -\frac{68}{627}, -\frac{25}{209}, -\frac{129}{209}, \frac{22}{57}, \frac{235}{627}, \frac{58}{209}, \frac{160}{627}, \frac{106}{627})$ $+\frac{13}{627} \sqrt{4182}e^1 \otimes e_4$	{123789, 126789, 13578, 15678, 23456, 245, 3469, 49}
9531:8	$0, 0, 0, 0, \frac{4}{1609} \sqrt{22737}e^{12}, \frac{4}{1609} \sqrt{4505}e^{13}, \frac{8}{1609} \sqrt{5035}e^{25},$ $\frac{8}{1609} \sqrt{5035}e^{36}, \frac{4}{1609} \sqrt{12561}e^{27}$	$(\frac{170}{1609}, \frac{94}{1609}, -\frac{250}{1609}, -\frac{254}{1609}, \frac{264}{1609}, -\frac{80}{1609}, \frac{358}{1609}, -\frac{330}{1609}, \frac{452}{1609})$ $+\frac{20}{1609} \sqrt{1961}e^2 \otimes e_8 + \frac{4}{1609} \sqrt{24857}e^1 \otimes e_4$	{135789, 156789, 234569, 2459}
9531:8	$0, 0, 0, 0, \frac{1}{2361} \sqrt{33198}e^{12}, \frac{4}{2361} \sqrt{16599}e^{13}, \frac{4}{2361} \sqrt{33198}e^{25},$ $\frac{1}{2361} \sqrt{791722}e^{36}, \frac{1}{2361} \sqrt{431574}e^{27}$	$(-\frac{83}{787}, \frac{110}{787}, \frac{38}{2361}, -\frac{155}{787}, \frac{27}{787}, -\frac{211}{2361}, \frac{137}{787}, -\frac{173}{2361}, \frac{247}{787})$ $+\frac{1}{2361} \sqrt{781662}e^3 \otimes e_4 + \frac{4}{2361} \sqrt{79977}e^2 \otimes e_8$	{135789, 1456789, 23569, 2459}
9531:8	$0, 0, 0, 0, \frac{2}{2295} \sqrt{48783}e^{12}, \frac{1}{2295} \sqrt{1146754}e^{13}, \frac{8}{2295} \sqrt{2121}e^{25},$ $\frac{1}{2295} \sqrt{756490}e^{36}, \frac{7}{2295} \sqrt{16766}e^{27}$	$(\frac{61}{459}, -\frac{251}{2295}, \frac{259}{2295}, -\frac{134}{765}, \frac{2}{85}, \frac{188}{765}, -\frac{197}{2295}, \frac{823}{2295}, -\frac{448}{2295})$ $+\frac{1}{2295} \sqrt{1862238}e^3 \otimes e_9 + \frac{2}{2295} \sqrt{243915}e^1 \otimes e_4$	{125689, 138, 23467, 4579}
9531:8	$0, 0, 0, 0, \frac{2}{209} \sqrt{793}e^{12}, \frac{2}{209} \sqrt{1586}e^{13}, \frac{2}{627} \sqrt{16653}e^{25}, \frac{1}{627} \sqrt{331474}e^{36},$ $\frac{2}{209} \sqrt{1586}e^{27}$	$(\frac{24}{209}, \frac{10}{209}, -\frac{119}{627}, \frac{1}{19}, \frac{34}{209}, -\frac{47}{627}, \frac{4}{19}, -\frac{166}{627}, \frac{54}{209})$ $+\frac{1}{627} \sqrt{794586}e^4 \otimes e_8$	{12378, 12678, 135789, 156789, 234569, 2459, 346, 4}
9531:8	$0, 0, 0, 0, \frac{10}{513} \sqrt{30}e^{12}, \frac{5}{513} \sqrt{1130}e^{13}, \frac{10}{513} \sqrt{210}e^{25}, \frac{5}{513} \sqrt{1090}e^{36},$ $\frac{25}{513} \sqrt{70}e^{27}$	$(-\frac{35}{513}, \frac{5}{513}, \frac{35}{171}, -\frac{40}{171}, -\frac{10}{171}, \frac{70}{513}, -\frac{25}{513}, \frac{175}{513}, -\frac{20}{513})$ $+\frac{10}{513} \sqrt{465}e^2 \otimes e_4 + \frac{5}{171} \sqrt{290}e^3 \otimes e_9$	{125689, 1348, 2367, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:8	$0, 0, 0, 0, \frac{16}{863} \sqrt{233}e^{12}, \frac{1}{863} \sqrt{2330}e^{13}, \frac{4}{863} \sqrt{6058}e^{25}, \frac{4}{863} \sqrt{6058}e^{36}, \frac{7}{863} \sqrt{2330}e^{27}$	$(-\frac{10}{863}, \frac{43}{863}, -\frac{90}{863}, \frac{352}{863}, \frac{33}{863}, -\frac{100}{863}, \frac{76}{863}, -\frac{190}{863}, \frac{119}{863})$ $+\frac{1}{863} \sqrt{111374}e^4 \otimes e_9 + \frac{1}{863} \sqrt{238126}e^2 \otimes e_8$	{123467, 1247, 348, 468}
9531:8	$0, 0, 0, 0, \frac{14}{921} \sqrt{345}e^{12}, \frac{7}{307} \sqrt{290}e^{13}, \frac{14}{307} \sqrt{10}e^{25}, \frac{7}{921} \sqrt{3070}e^{36}, \frac{7}{307} \sqrt{290}e^{27}$	$(-\frac{5}{307}, -\frac{17}{307}, \frac{77}{921}, \frac{128}{307}, -\frac{22}{307}, \frac{62}{921}, -\frac{39}{307}, \frac{139}{921}, -\frac{56}{307})$ $+\frac{14}{921} \sqrt{690}e^4 \otimes e_8 + \frac{7}{921} \sqrt{5370}e^3 \otimes e_9$	{125689, 138, 23467, 4579}
9531:9	$0, 0, 0, 0, \frac{810}{7633} \sqrt{2}e^{12}, \frac{45}{7633} \sqrt{4242}e^{13}, \frac{45}{7633} \sqrt{4458}e^{25}, \frac{45}{7633} \sqrt{2146}e^{15} + \frac{90}{7633} \sqrt{127}e^{23}, \frac{45}{7633} \sqrt{5042}e^{27}$	$(-\frac{495}{7633}, \frac{540}{7633}, \frac{990}{7633}, \frac{3150}{7633}, \frac{45}{7633}, -\frac{1485}{7633}, \frac{585}{7633}, -\frac{450}{7633}, \frac{1125}{7633})$ $+\frac{45}{7633} \sqrt{4546}e^4 \otimes e_9 + \frac{45}{7633} \sqrt{8966}e^2 \otimes e_6$	{156789, 259}
9531:9	$0, 0, 0, 0, \frac{39}{4469} \sqrt{1594}e^{12}, \frac{78}{4469} \sqrt{267}e^{13}, \frac{78}{4469} \sqrt{59}e^{25}, \frac{78}{4469} \sqrt{795}e^{15} + \frac{39}{4469} \sqrt{1434}e^{23}, \frac{156}{4469} \sqrt{133}e^{27}$	$(\frac{351}{4469}, -\frac{507}{4469}, \frac{702}{4469}, \frac{1716}{4469}, -\frac{156}{4469}, \frac{1053}{4469}, -\frac{663}{4469}, \frac{195}{4469}, -\frac{1170}{4469})$ $+\frac{117}{4469} \sqrt{266}e^4 \otimes e_8 + \frac{39}{4469} \sqrt{5506}e^1 \otimes e_9$	{1345, 34679}
9531:9	$0, 0, 0, 0, \frac{9}{6601} \sqrt{2402}e^{12}, \frac{36}{6601} \sqrt{258}e^{13}, \frac{90}{6601} \sqrt{29}e^{25}, \frac{117}{6601} \sqrt{6}e^{15} + \frac{9}{6601} \sqrt{2598}e^{23}, \frac{90}{6601} \sqrt{4466}e^{27}$	$(-\frac{36}{6601}, -\frac{27}{6601}, -\frac{72}{6601}, \frac{99}{943}, -\frac{9}{943}, -\frac{108}{6601}, -\frac{90}{6601}, -\frac{99}{6601}, -\frac{117}{6601})$ $+\frac{9}{6601} \sqrt{5730}e^2 \otimes e_6 + \frac{9}{6601} \sqrt{6086}e^1 \otimes e_9$	{123478, 12378}
9531:9	$0, 0, 0, 0, \frac{80}{1879} \sqrt{39}e^{12}, \frac{40}{1879} \sqrt{390}e^{13}, \frac{40}{1879} \sqrt{442}e^{25}, \frac{120}{1879} \sqrt{13}e^{15} + \frac{40}{1879} \sqrt{219}e^{23}, \frac{120}{1879} \sqrt{39}e^{27}$	$(-\frac{180}{1879}, \frac{260}{1879}, \frac{360}{1879}, \frac{700}{1879}, \frac{80}{1879}, -\frac{540}{1879}, \frac{340}{1879}, -\frac{100}{1879}, \frac{600}{1879})$ $+\frac{120}{1879} \sqrt{131}e^2 \otimes e_6 + \frac{40}{1879} \sqrt{451}e^4 \otimes e_8$	{12347, 368}
9531:9	$0, 0, 0, 0, \frac{6}{2813} \sqrt{49558}e^{12}, \frac{12}{2813} \sqrt{12993}e^{13}, \frac{6}{2813} \sqrt{12070}e^{25}, \frac{12}{2813} \sqrt{17679}e^{15} + \frac{6}{2813} \sqrt{76467}e^{23}, \frac{12}{2813} \sqrt{18886}e^{27}$	$(\frac{387}{2813}, -\frac{426}{2813}, \frac{774}{2813}, \frac{429}{2813}, -\frac{39}{2813}, \frac{1161}{2813}, -\frac{465}{2813}, \frac{12}{97}, -\frac{891}{2813})$ $+\frac{24}{2813} \sqrt{10579}e^1 \otimes e_9$	{123478, 12378, 2345689, 235689}
9531:9	$0, 0, 0, 0, \frac{2}{83} \sqrt{159}e^{12}, \frac{12}{83} \sqrt{6}e^{13}, \frac{2}{83} \sqrt{177}e^{25}, \frac{2}{83} \sqrt{15}e^{15} + \frac{10}{83} \sqrt{3}e^{23}, \frac{2}{83} \sqrt{129}e^{27}$	$(-\frac{3}{83}, \frac{9}{83}, -\frac{6}{83}, -\frac{21}{83}, \frac{6}{83}, -\frac{9}{83}, \frac{15}{83}, \frac{3}{83}, \frac{24}{83})$ $+\frac{16}{83} \sqrt{6}e^2 \otimes e_6 + \frac{4}{83} \sqrt{69}e^1 \otimes e_4$	{12378, 346}
9531:9	$0, 0, 0, 0, \frac{2}{43} \sqrt{255}e^{12}, \frac{4}{43} \sqrt{34}e^{13}, \frac{2}{43} \sqrt{17}e^{25}, \frac{2}{43} \sqrt{255}e^{15} + \frac{2}{43} \sqrt{187}e^{23}, \frac{2}{43} \sqrt{17}e^{27}$	$(\frac{5}{43}, \frac{1}{43}, \frac{10}{43}, -\frac{29}{43}, \frac{6}{43}, \frac{15}{43}, \frac{7}{43}, \frac{11}{43}, \frac{8}{43})$ $+\frac{12}{43} \sqrt{17}e^1 \otimes e_4$	{12378, 13579, 2345689, 346}
9531:9	$0, 0, 0, 0, \frac{2}{2533} \sqrt{49881}e^{12}, \frac{4}{2533} \sqrt{157317}e^{13}, \frac{2}{2533} \sqrt{612641}e^{25}, \frac{6}{2533} \sqrt{121505}e^{15} + \frac{2}{2533} \sqrt{1200981}e^{23}, \frac{2}{2533} \sqrt{29417}e^{27}$	$(-\frac{45}{2533}, \frac{65}{2533}, -\frac{90}{2533}, \frac{20}{2533}, \frac{135}{2533}, \frac{5}{149}, -\frac{25}{2533}, \frac{150}{2533})$ $+\frac{16}{2533} \sqrt{43486}e^4 \otimes e_8$	{128, 1459, 256789, 467}
9531:9	$0, 0, 0, 0, \frac{2}{161} \sqrt{2310}e^{12}, \frac{18}{161} \sqrt{55}e^{13}, \frac{1}{161} \sqrt{330}e^{25}, \frac{2}{161} \sqrt{2310}e^{15} + \frac{55}{161} \sqrt{6}e^{23}, \frac{1}{161} \sqrt{330}e^{27}$	$(\frac{26}{161}, -\frac{1}{161}, \frac{52}{161}, -\frac{113}{161}, \frac{25}{161}, \frac{78}{161}, \frac{24}{161}, \frac{51}{161}, \frac{1}{7})$ $+\frac{1}{161} \sqrt{45210}e^3 \otimes e_4$	{12456789, 1467, 248, 459}
9531:9	$0, 0, 0, 0, \frac{2}{2821} \sqrt{718507}e^{12}, \frac{4}{2821} \sqrt{25001}e^{13}, \frac{2}{2821} \sqrt{985909}e^{25}, \frac{2}{2821} \sqrt{233705}e^{15} + \frac{6}{2821} \sqrt{38045}e^{23}, \frac{2}{2821} \sqrt{668505}e^{27}$	$(\frac{131}{2821}, \frac{323}{2821}, \frac{262}{2821}, -\frac{1851}{2821}, \frac{454}{2821}, \frac{393}{2821}, \frac{111}{403}, \frac{45}{217}, \frac{1100}{2821})$ $+\frac{8}{2821} \sqrt{158702}e^2 \otimes e_4$	{12367, 13456789, 2359, 348}
9531:9	$0, 0, 0, 0, \frac{25}{2041} \sqrt{959}e^{12}, \frac{100}{2041} \sqrt{111}e^{13}, \frac{100}{2041} \sqrt{13}e^{25}, \frac{50}{2041} \sqrt{170}e^{15} + \frac{25}{2041} \sqrt{393}e^{23}, \frac{25}{2041} \sqrt{1045}e^{27}$	$(\frac{100}{2041}, -\frac{175}{2041}, \frac{200}{2041}, \frac{925}{2041}, -\frac{75}{2041}, \frac{300}{2041}, -\frac{250}{2041}, \frac{25}{2041}, -\frac{425}{2041})$ $+\frac{150}{2041} \sqrt{62}e^3 \otimes e_9 + \frac{25}{2041} \sqrt{1513}e^4 \otimes e_6$	{125689, 4579}
9531:9	$0, 0, 0, 0, \frac{1}{28} \sqrt{170}e^{12}, \frac{1}{7} \sqrt{51}e^{13}, \frac{1}{28} \sqrt{238}e^{25}, \frac{1}{28} \sqrt{170}e^{15} + \frac{1}{14} \sqrt{51}e^{23}, \frac{1}{28} \sqrt{238}e^{27}$	$(-\frac{1}{14}, \frac{1}{8}, -\frac{1}{7}, \frac{1}{56}, -\frac{3}{14}, \frac{5}{28}, -\frac{1}{56}, \frac{17}{56})$ $+\frac{1}{14} \sqrt{391}e^4 \otimes e_6$	{1234589, 134, 23678, 35679}
9531:9	$0, 0, 0, 0, \frac{148}{7109} \sqrt{10}e^{12}, \frac{74}{7109} \sqrt{1271}e^{13}, \frac{37}{7109} \sqrt{3358}e^{25}, \frac{148}{7109} \sqrt{193}e^{15} + \frac{111}{7109} \sqrt{246}e^{23}, \frac{37}{7109} \sqrt{2382}e^{27}$	$(-\frac{222}{7109}, \frac{703}{7109}, \frac{444}{7109}, -\frac{1813}{7109}, \frac{481}{7109}, -\frac{666}{7109}, \frac{1184}{7109}, \frac{259}{7109}, \frac{1887}{7109})$ $+\frac{296}{7109} \sqrt{122}e^2 \otimes e_6 + \frac{37}{7109} \sqrt{5018}e^3 \otimes e_4$	{146, 2478}
9531:9	$0, 0, 0, 0, \frac{4}{2733} \sqrt{8395}e^{12}, \frac{4}{2733} \sqrt{132641}e^{13}, \frac{32}{2733} \sqrt{1679}e^{25}, \frac{14}{2733} \sqrt{3358}e^{15} + \frac{2}{2733} \sqrt{599403}e^{23}, \frac{2}{2733} \sqrt{1830110}e^{27}$	$(\frac{275}{2733}, -\frac{100}{911}, \frac{550}{2733}, \frac{1}{2733}, -\frac{25}{2733}, \frac{275}{911}, -\frac{325}{2733}, \frac{250}{2733}, -\frac{625}{2733})$ $+\frac{8}{2733} \sqrt{233381}e^4 \otimes e_9$	{12569, 1468, 247, 5789}
9531:9	$0, 0, 0, 0, \frac{66}{5957} \sqrt{733}e^{12}, \frac{66}{5957} \sqrt{402}e^{13}, \frac{66}{5957} \sqrt{478}e^{25}, \frac{33}{5957} \sqrt{2118}e^{15} + \frac{33}{5957} \sqrt{2226}e^{23}, \frac{66}{5957} \sqrt{934}e^{27}$	$(\frac{495}{5957}, -\frac{363}{5957}, \frac{990}{5957}, -\frac{1452}{5957}, \frac{132}{5957}, \frac{1485}{5957}, -\frac{33}{851}, \frac{627}{5957}, -\frac{594}{5957})$ $+\frac{33}{5957} \sqrt{6286}e^1 \otimes e_9 + \frac{99}{5957} \sqrt{474}e^2 \otimes e_4$	{12378, 235689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:9	$0, 0, 0, 0, \frac{22}{547}\sqrt{7}e^{12}, \frac{44}{547}\sqrt{42}e^{13}, \frac{66}{547}e^{25},$ $\frac{22}{547}\sqrt{39}e^{15} + \frac{22}{547}\sqrt{3}e^{23}, \frac{22}{547}\sqrt{105}e^{27}$	$(\frac{77}{547}, -\frac{55}{547}, \frac{154}{547}, -\frac{165}{547}, \frac{22}{547}, \frac{231}{547}, -\frac{33}{547}, \frac{99}{547}, -\frac{88}{547})$ $+ \frac{352}{547}e^3 \otimes e_9 + \frac{44}{547}\sqrt{57}e^1 \otimes e_4$	{12378, 346}
9531:9	$0, 0, 0, 0, \frac{2}{2653}\sqrt{718481}e^{12}, \frac{4}{2653}\sqrt{263991}e^{13}, \frac{2}{2653}\sqrt{84129}e^{25},$ $\frac{6}{2653}\sqrt{49317}e^{15} + \frac{2}{2653}\sqrt{559893}e^{23}, \frac{2}{2653}\sqrt{908013}e^{27}$	$(\frac{491}{2653}, -\frac{481}{2653}, \frac{982}{2653}, \frac{381}{2653}, \frac{10}{2653}, \frac{1473}{2653}, -\frac{471}{2653}, \frac{501}{2653}, -\frac{136}{379})$ $+ \frac{8}{2653}\sqrt{137314}e^3 \otimes e_9$	{1245689, 125689, 4579, 579}
9531:9	$0, 0, 0, 0, \frac{21}{587}\sqrt{53}e^{12}, \frac{14}{587}\sqrt{282}e^{13}, \frac{28}{587}\sqrt{15}e^{25},$ $\frac{14}{587}\sqrt{186}e^{15} + \frac{133}{587}\sqrt{3}e^{23}, \frac{7}{587}\sqrt{1041}e^{27}$	$(\frac{28}{587}, -\frac{49}{587}, \frac{56}{587}, \frac{231}{587}, -\frac{21}{587}, \frac{84}{587}, -\frac{70}{587}, \frac{7}{587}, -\frac{119}{587})$ $+ \frac{14}{587}\sqrt{534}e^1 \otimes e_9 + \frac{7}{587}\sqrt{1005}e^4 \otimes e_6$	{123478, 235689}
9531:9	$0, 0, 0, 0, \frac{14}{359}\sqrt{15}e^{12}, \frac{14}{1077}\sqrt{618}e^{13}, \frac{14}{1077}\sqrt{537}e^{25},$ $\frac{14}{1077}\sqrt{471}e^{15} + \frac{14}{359}\sqrt{65}e^{23}, \frac{14}{359}\sqrt{103}e^{27}$	$(\frac{35}{359}, -\frac{21}{359}, \frac{70}{359}, -\frac{119}{359}, \frac{14}{359}, \frac{105}{359}, -\frac{7}{359}, \frac{49}{359}, -\frac{28}{359})$ $+ \frac{14}{1077}\sqrt{1398}e^2 \otimes e_4 + \frac{14}{1077}\sqrt{1506}e^3 \otimes e_9$	{125689, 4579}
9531:9	$0, 0, 0, 0, \frac{48}{2671}\sqrt{467}e^{12}, \frac{48}{2671}\sqrt{403}e^{13}, \frac{48}{2671}\sqrt{219}e^{25},$ $\frac{48}{2671}\sqrt{93}e^{15} + \frac{48}{2671}\sqrt{809}e^{23}, \frac{48}{2671}\sqrt{434}e^{27}$	$(\frac{216}{2671}, -\frac{312}{2671}, \frac{432}{2671}, \frac{1272}{2671}, -\frac{96}{2671}, \frac{648}{2671}, -\frac{408}{2671}, \frac{120}{2671}, -\frac{720}{2671})$ $+ \frac{48}{2671}\sqrt{1027}e^4 \otimes e_8 + \frac{48}{2671}\sqrt{1399}e^3 \otimes e_9$	{123457, 3568}
9531:9	$0, 0, 0, 0, \frac{2}{2869}\sqrt{230799}e^{12}, \frac{4}{2869}\sqrt{184783}e^{13}, \frac{2}{2869}\sqrt{816065}e^{25},$ $\frac{2}{2869}\sqrt{416301}e^{15} + \frac{2}{2869}\sqrt{30917}e^{23}, \frac{2}{2869}\sqrt{600365}e^{27}$	$(-\frac{301}{2869}, \frac{535}{2869}, -\frac{602}{2869}, \frac{469}{2869}, \frac{234}{2869}, -\frac{903}{2869}, \frac{769}{2869}, -\frac{67}{2869}, \frac{1304}{2869})$ $+ \frac{40}{2869}\sqrt{4314}e^2 \otimes e_6$	{12347, 1237, 3468, 368}
9531:9	$0, 0, 0, 0, \frac{26}{1343}\sqrt{273}e^{12}, \frac{234}{1343}\sqrt{7}e^{13}, \frac{13}{1343}\sqrt{282}e^{25},$ $\frac{26}{1343}\sqrt{435}e^{15} + \frac{13}{1343}\sqrt{1578}e^{23}, \frac{13}{1343}\sqrt{2226}e^{27}$	$(\frac{182}{1343}, -\frac{169}{1343}, \frac{364}{1343}, -\frac{143}{1343}, \frac{13}{1343}, \frac{546}{1343}, -\frac{156}{1343}, \frac{195}{1343}, -\frac{325}{1343})$ $+ \frac{13}{1343}\sqrt{1866}e^3 \otimes e_4 + \frac{936}{1343}e^1 \otimes e_9$	{12378, 235689}
9531:10	$0, 0, 0, 0, \frac{5}{809}\sqrt{5222}e^{12}, \frac{1}{809}\sqrt{79822}e^{13}, \frac{4}{809}\sqrt{2611}e^{15}, \frac{6}{809}\sqrt{11563}e^{25},$ $\frac{3}{809}\sqrt{11190}e^{17} + \frac{2}{809}\sqrt{115630}e^{34}$	$(\frac{203}{809}, -\frac{225}{809}, -\frac{115}{809}, \frac{499}{809}, -\frac{22}{809}, \frac{88}{809}, \frac{181}{809}, -\frac{247}{809}, \frac{384}{809})$ $+ \frac{1}{809}\sqrt{995910}e^4 \otimes e_8$	{128, 1356789, 24569, 347}
9531:10	$0, 0, 0, 0, \frac{135}{7301}\sqrt{106}e^{12}, \frac{27}{7301}\sqrt{402}e^{13}, \frac{27}{7301}\sqrt{1418}e^{15},$ $\frac{54}{7301}\sqrt{1335}e^{25}, \frac{54}{7301}\sqrt{85}e^{17} + \frac{54}{7301}\sqrt{1155}e^{34}$	$(-\frac{243}{7301}, \frac{351}{7301}, \frac{1188}{7301}, \frac{1566}{7301}, \frac{108}{7301}, \frac{135}{7301}, \frac{1043}{7301}, -\frac{135}{7301}, \frac{459}{7301}, -\frac{54}{1043})$ $+ \frac{27}{7301}\sqrt{5910}e^3 \otimes e_8 + \frac{54}{7301}\sqrt{1801}e^2 \otimes e_9$	{23456, 3679}
9531:10	$0, 0, 0, 0, \frac{102}{9029}\sqrt{499}e^{12}, \frac{51}{9029}\sqrt{7894}e^{13}, \frac{51}{9029}\sqrt{3874}e^{15},$ $\frac{102}{9029}\sqrt{1282}e^{25}, \frac{102}{9029}\sqrt{593}e^{17} + \frac{51}{9029}\sqrt{1374}e^{34}$	$(-\frac{1122}{9029}, \frac{2193}{9029}, \frac{714}{9029}, -\frac{1887}{9029}, \frac{1071}{9029}, -\frac{408}{9029}, -\frac{51}{9029}, \frac{3264}{9029}, -\frac{1173}{9029})$ $+ \frac{102}{9029}\sqrt{1637}e^3 \otimes e_4 + \frac{51}{9029}\sqrt{10110}e^2 \otimes e_6$	{1238, 367}
9531:10	$0, 0, 0, 0, \frac{2}{1911}\sqrt{485}e^{12}, \frac{2}{1911}\sqrt{1965}e^{13}, \frac{6}{1911}\sqrt{15}e^{15}, \frac{1}{1911}\sqrt{7990}e^{25},$ $\frac{1}{1911}\sqrt{3490}e^{17} + \frac{2}{1911}\sqrt{485}e^{34}$	$(-\frac{6}{637}, \frac{2}{147}, \frac{1}{49}, -\frac{67}{1911}, \frac{8}{1911}, \frac{1}{91}, -\frac{10}{1911}, \frac{34}{1911}, -\frac{4}{273})$ $+ \frac{2}{1911}\sqrt{2230}e^2 \otimes e_6 + \frac{2}{1911}\sqrt{2230}e^3 \otimes e_8$	{1456789, 3467}
9531:10	$0, 0, 0, 0, \frac{2}{1567}\sqrt{212135}e^{12}, \frac{4}{1567}\sqrt{77330}e^{13}, \frac{2}{1567}\sqrt{173470}e^{15},$ $\frac{1}{1567}\sqrt{1322970}e^{25}, \frac{9}{1567}\sqrt{6270}e^{17} + \frac{2}{1567}\sqrt{209}e^{34}$	$(-\frac{194}{1567}, \frac{528}{1567}, -\frac{323}{1567}, \frac{269}{1567}, \frac{334}{1567}, -\frac{517}{1567}, \frac{140}{1567}, \frac{862}{1567}, -\frac{54}{1567})$ $+ \frac{2}{1567}\sqrt{699105}e^2 \otimes e_6$	{1238, 156789, 259, 367}
9531:10	$0, 0, 0, 0, \frac{8}{223}\sqrt{255}e^{12}, \frac{6}{223}\sqrt{323}e^{13}, \frac{2}{223}\sqrt{357}e^{15}, \frac{12}{223}\sqrt{102}e^{25},$ $\frac{4}{223}\sqrt{510}e^{17} + \frac{8}{223}\sqrt{255}e^{34}$	$(-\frac{34}{223}, \frac{71}{223}, \frac{13}{223}, -\frac{44}{223}, \frac{37}{223}, -\frac{21}{223}, \frac{3}{223}, \frac{108}{223}, -\frac{31}{223})$ $+ \frac{24}{223}\sqrt{33}e^2 \otimes e_9$	{1234678, 1278, 135689, 14589}
9531:10	$0, 0, 0, 0, \frac{9}{269}\sqrt{130}e^{12}, \frac{9}{269}\sqrt{42}e^{13}, \frac{18}{269}\sqrt{2}e^{15}, \frac{18}{269}\sqrt{33}e^{25},$ $\frac{18}{269}\sqrt{10}e^{17} + \frac{54}{269}\sqrt{5}e^{34}$	$(-\frac{27}{269}, \frac{63}{269}, -\frac{36}{269}, \frac{18}{269}, \frac{36}{269}, -\frac{63}{269}, \frac{9}{269}, \frac{99}{269}, -\frac{18}{269})$ $+ \frac{45}{269}\sqrt{6}e^4 \otimes e_6 + \frac{9}{269}\sqrt{322}e^2 \otimes e_9$	{2345, 256}
9531:10	$0, 0, 0, 0, \frac{20}{1567}\sqrt{209}e^{12}, \frac{4}{1567}\sqrt{77330}e^{13}, \frac{2}{1567}\sqrt{173470}e^{15},$ $\frac{1}{1567}\sqrt{1322970}e^{25}, \frac{9}{1567}\sqrt{6270}e^{17} + \frac{2}{1567}\sqrt{212135}e^{34}$	$(\frac{252}{1567}, -\frac{364}{1567}, \frac{569}{1567}, -\frac{177}{1567}, -\frac{112}{1567}, \frac{821}{1567}, \frac{140}{1567}, -\frac{476}{1567}, \frac{392}{1567})$ $+ \frac{2}{1567}\sqrt{699105}e^3 \otimes e_8$	{123579, 134, 278, 4589}
9531:10	$0, 0, 0, 0, \frac{8}{199}\sqrt{123}e^{12}, \frac{4}{199}\sqrt{2706}e^{13}, \frac{10}{199}\sqrt{123}e^{15}, \frac{2}{199}\sqrt{2337}e^{25},$ $\frac{4}{199}\sqrt{246}e^{17} + \frac{8}{199}\sqrt{123}e^{34}$	$(-\frac{7}{199}, \frac{29}{199}, \frac{127}{199}, -\frac{119}{199}, \frac{22}{199}, \frac{120}{199}, \frac{15}{199}, \frac{51}{199}, \frac{8}{199})$ $+ \frac{2}{199}\sqrt{20541}e^3 \otimes e_4$	{13, 146, 23678, 2478}
9531:10	$0, 0, 0, 0, \frac{23}{2077}\sqrt{770}e^{12}, \frac{460}{2077}\sqrt{2}e^{13}, \frac{23}{2077}\sqrt{670}e^{15},$ $\frac{46}{2077}\sqrt{402}e^{25}, \frac{69}{2077}\sqrt{66}e^{17} + \frac{23}{2077}\sqrt{610}e^{34}$	$(\frac{46}{2077}, \frac{69}{2077}, -\frac{506}{2077}, \frac{23}{2077}, \frac{115}{2077}, -\frac{460}{2077}, \frac{161}{2077}, \frac{184}{2077}, \frac{207}{2077})$ $+ \frac{23}{2077}\sqrt{2118}e^2 \otimes e_6 + \frac{69}{2077}\sqrt{182}e^4 \otimes e_8$	{2459, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:10	$0, 0, 0, 0, \frac{2}{625}\sqrt{335e^{12}}, \frac{28}{625}\sqrt{335e^{13}}, \frac{2}{625}\sqrt{15745e^{15}}, \frac{2}{625}\sqrt{17085e^{25}},$ $\frac{2}{625}\sqrt{29145e^{17}} + \frac{2}{625}\sqrt{14405e^{34}}$	$(\frac{9}{125}, \frac{56}{625}, -\frac{262}{625}, \frac{453}{625}, \frac{101}{625}, -\frac{217}{625}, \frac{146}{625}, \frac{157}{625}, \frac{191}{625})$ $+ \frac{2}{625}\sqrt{173865e^4} \otimes e_6$	{134, 16, 35689, 4589}
9531:10	$0, 0, 0, 0, \frac{13}{1141}\sqrt{102e^{12}}, \frac{13}{1141}\sqrt{874e^{13}}, \frac{13}{1141}\sqrt{438e^{15}},$ $\frac{26}{1141}\sqrt{151e^{25}}, \frac{26}{1141}\sqrt{101e^{17}} + \frac{26}{1141}\sqrt{151e^{34}}$	$(\frac{117}{1141}, -\frac{169}{1141}, -\frac{52}{1141}, \frac{234}{1141}, -\frac{52}{1141}, \frac{65}{1141}, \frac{65}{1141}, -\frac{221}{1141}, \frac{26}{163})$ $+ \frac{143}{1141}\sqrt{10e^3} \otimes e_8 + \frac{26}{1141}\sqrt{227e^4} \otimes e_6$	{134, 4589}
9531:10	$0, 0, 0, 0, \frac{9}{2549}\sqrt{1285e^{12}}, \frac{9}{2549}\sqrt{987e^{13}}, \frac{9}{2549}\sqrt{86e^{15}}, \frac{216}{2549}\sqrt{3e^{25}},$ $\frac{45}{2549}\sqrt{13e^{17}} + \frac{72}{2549}\sqrt{30e^{34}}$	$(-\frac{27}{2549}, \frac{90}{2549}, -\frac{225}{2549}, \frac{234}{2549}, \frac{63}{2549}, -\frac{252}{2549}, \frac{36}{2549}, \frac{153}{2549}, \frac{9}{2549})$ $+ \frac{9}{2549}\sqrt{1905e^4} \otimes e_8 + \frac{9}{2549}\sqrt{2710e^2} \otimes e_9$	{2345, 4679}
9531:11	$0, 0, 0, 0, \frac{58}{2397}\sqrt{17e^{12}}, \frac{29}{2397}\sqrt{953e^{13}}, \frac{29}{2397}\sqrt{53e^{25}}, \frac{29}{799}\sqrt{70e^{15}},$ $\frac{29}{2397}\sqrt{278e^{27}} + \frac{29}{2397}\sqrt{1373e^{34}}$	$(-\frac{174}{799}, \frac{145}{799}, \frac{232}{2397}, \frac{551}{2397}, -\frac{29}{799}, -\frac{290}{2397}, \frac{116}{799}, -\frac{203}{799}, \frac{261}{799})$ $+ \frac{29}{2397}\sqrt{2319e^3} \otimes e_8 + \frac{58}{2397}\sqrt{501e^4} \otimes e_6$	{1678, 4589}
9531:11	$0, 0, 0, 0, \frac{2}{1051}\sqrt{85143e^{12}}, \frac{6}{1051}\sqrt{1515e^{13}}, \frac{4}{1051}\sqrt{4242e^{25}},$ $\frac{6}{1051}\sqrt{11918e^{15}}, \frac{2}{1051}\sqrt{49389e^{27}} + \frac{4}{1051}\sqrt{85143e^{34}}$	$(\frac{371}{1051}, -\frac{202}{1051}, -\frac{140}{1051}, -\frac{95}{1051}, \frac{169}{1051}, \frac{231}{1051}, -\frac{33}{1051}, \frac{540}{1051}, -\frac{235}{1051})$ $+ \frac{2}{1051}\sqrt{262095e^1} \otimes e_9$	{1345, 156, 3679, 479}
9531:11	$0, 0, 0, 0, \frac{4}{1467}\sqrt{3306e^{12}}, \frac{145}{1467}\sqrt{38e^{13}}, \frac{4}{1467}\sqrt{42427e^{25}},$ $\frac{1}{1467}\sqrt{419862e^{15}}, \frac{2}{1467}\sqrt{164749e^{27}} + \frac{4}{1467}\sqrt{16530e^{34}}$	$(-\frac{194}{1467}, \frac{205}{1467}, -\frac{152}{1467}, \frac{191}{489}, \frac{11}{1467}, -\frac{346}{1467}, \frac{24}{163}, -\frac{61}{489}, \frac{421}{1467})$ $+ \frac{1}{489}\sqrt{155382e^2} \otimes e_6$	{1237, 156789, 259, 368}
9531:11	$0, 0, 0, 0, \frac{17}{2203}\sqrt{1542e^{12}}, \frac{51}{2203}\sqrt{290e^{13}}, \frac{17}{2203}\sqrt{210e^{25}}, \frac{816}{2203}e^{15},$ $\frac{34}{2203}\sqrt{519e^{27}} + \frac{17}{2203}\sqrt{1542e^{34}}$	$(\frac{476}{2203}, -\frac{289}{2203}, \frac{238}{2203}, -\frac{629}{2203}, \frac{187}{2203}, \frac{714}{2203}, -\frac{102}{2203}, \frac{663}{2203}, -\frac{391}{2203})$ $+ \frac{17}{2203}\sqrt{7638e^1} \otimes e_9 + \frac{51}{2203}\sqrt{434e^3} \otimes e_4$	{3679, 479}
9531:11	$0, 0, 0, 0, \frac{42}{6109}\sqrt{398e^{12}}, \frac{21}{6109}\sqrt{3738e^{13}}, \frac{42}{6109}\sqrt{638e^{25}},$ $\frac{21}{6109}\sqrt{102e^{15}}, \frac{42}{6109}\sqrt{926e^{27}} + \frac{189}{6109}\sqrt{6e^{34}}$	$(\frac{378}{6109}, -\frac{147}{6109}, -\frac{966}{6109}, \frac{903}{6109}, \frac{231}{6109}, -\frac{588}{6109}, \frac{84}{6109}, \frac{609}{6109}, -\frac{63}{6109})$ $+ \frac{21}{6109}\sqrt{6234e^2} \otimes e_6 + \frac{42}{6109}\sqrt{1166e^1} \otimes e_9$	{1237, 259}
9531:11	$0, 0, 0, 0, \frac{30}{2437}\sqrt{197e^{12}}, \frac{15}{2437}\sqrt{339e^{13}}, \frac{15}{2437}\sqrt{379e^{25}},$ $\frac{45}{2437}\sqrt{182e^{15}}, \frac{165}{2437}\sqrt{2e^{27}} + \frac{45}{2437}\sqrt{159e^{34}}$	$(\frac{90}{2437}, -\frac{75}{2437}, \frac{330}{2437}, -\frac{465}{2437}, \frac{15}{2437}, \frac{420}{2437}, -\frac{60}{2437}, \frac{105}{2437}, -\frac{135}{2437})$ $+ \frac{15}{2437}\sqrt{1929e^3} \otimes e_8 + \frac{30}{2437}\sqrt{611e^1} \otimes e_9$	{1345, 3679}
9531:11	$0, 0, 0, 0, \frac{2}{2937}\sqrt{148967e^{12}}, \frac{16}{2937}\sqrt{21281e^{13}}, \frac{4}{2937}\sqrt{96583e^{25}},$ $\frac{4}{979}\sqrt{8185e^{15}}, \frac{2}{2937}\sqrt{50747e^{27}} + \frac{4}{2937}\sqrt{291386e^{34}}$	$(-\frac{1}{89}, \frac{138}{979}, -\frac{1016}{2937}, \frac{25}{33}, \frac{127}{979}, -\frac{1049}{2937}, \frac{265}{979}, \frac{116}{979}, \frac{403}{979})$ $+ \frac{2}{2937}\sqrt{3943533e^4} \otimes e_6$	{123458, 12568, 236789, 24789}
9531:11	$0, 0, 0, 0, \frac{84}{8389}\sqrt{269e^{12}}, \frac{21}{8389}\sqrt{2994e^{13}}, \frac{210}{8389}\sqrt{19e^{25}},$ $\frac{42}{8389}\sqrt{1806e^{15}}, \frac{21}{8389}\sqrt{586e^{27}} + \frac{63}{8389}\sqrt{754e^{34}}$	$(\frac{399}{8389}, -\frac{147}{8389}, -\frac{1134}{8389}, \frac{1092}{8389}, \frac{252}{8389}, -\frac{735}{8389}, \frac{105}{8389}, \frac{651}{8389}, -\frac{42}{8389})$ $+ \frac{168}{8389}\sqrt{122e^1} \otimes e_9 + \frac{21}{8389}\sqrt{7446e^4} \otimes e_8$	{128, 235789}
9531:11	$0, 0, 0, 0, \frac{48}{1037}\sqrt{38e^{12}}, \frac{12}{1037}\sqrt{570e^{13}}, \frac{24}{1037}\sqrt{22e^{25}}, \frac{72}{1037}\sqrt{21e^{15}},$ $\frac{24}{1037}\sqrt{89e^{27}} + \frac{12}{1037}\sqrt{1074e^{34}}$	$(\frac{12}{61}, -\frac{96}{1037}, -\frac{288}{1037}, \frac{12}{61}, \frac{108}{1037}, -\frac{84}{1037}, \frac{12}{1037}, \frac{312}{1037}, -\frac{84}{1037})$ $- \frac{12}{1037}\sqrt{1398e^4} \otimes e_6 + \frac{12}{1037}\sqrt{2258e^1} \otimes e_9$	{1345, 156, 3679, 479}
9531:11	$0, 0, 0, 0, \frac{4}{1419}\sqrt{42269e^{12}}, \frac{1}{1419}\sqrt{1051810e^{13}}, \frac{2}{1419}\sqrt{83555e^{25}},$ $\frac{2}{1419}\sqrt{347982e^{15}}, \frac{1}{1419}\sqrt{587834e^{27}} + \frac{1}{1419}\sqrt{1476466e^{34}}$	$(-\frac{29}{129}, \frac{323}{1419}, -\frac{6}{473}, \frac{668}{1419}, \frac{4}{1419}, -\frac{337}{1419}, \frac{109}{473}, -\frac{105}{473}, \frac{650}{1419})$ $+ \frac{1}{1419}\sqrt{2400486e^4} \otimes e_8$	{128, 1459, 235789, 347}
9531:11	$0, 0, 0, 0, \frac{4}{49}\sqrt{58e^{12}}, \frac{4}{49}\sqrt{174e^{13}}, \frac{2}{49}\sqrt{145e^{25}}, \frac{2}{49}\sqrt{203e^{15}},$ $\frac{4}{49}\sqrt{58e^{27}} + \frac{4}{49}\sqrt{58e^{34}}$	$(-\frac{1}{49}, \frac{3}{49}, \frac{33}{49}, -\frac{25}{49}, \frac{2}{49}, \frac{32}{49}, \frac{5}{49}, \frac{1}{49}, \frac{8}{49})$ $+ \frac{2}{49}\sqrt{1189e^3} \otimes e_4$	{13, 146, 23678, 2478}
9531:11	$0, 0, 0, 0, \frac{48}{1037}\sqrt{38e^{12}}, \frac{12}{1037}\sqrt{570e^{13}}, \frac{24}{1037}\sqrt{22e^{25}}, \frac{72}{1037}\sqrt{21e^{15}},$ $\frac{24}{1037}\sqrt{89e^{27}} + \frac{12}{1037}\sqrt{1074e^{34}}$	$(\frac{12}{61}, -\frac{96}{1037}, -\frac{288}{1037}, \frac{12}{61}, \frac{108}{1037}, -\frac{84}{1037}, \frac{12}{1037}, \frac{312}{1037}, -\frac{84}{1037})$ $+ \frac{12}{1037}\sqrt{1398e^4} \otimes e_6 + \frac{12}{1037}\sqrt{2258e^1} \otimes e_9$	{1345, 156, 3679, 479}
9531:11	$0, 0, 0, 0, \frac{4}{375}\sqrt{682e^{12}}, \frac{1}{375}\sqrt{27962e^{13}}, \frac{1}{375}\sqrt{11594e^{25}}, \frac{1}{125}\sqrt{8866e^{15}},$ $\frac{1}{375}\sqrt{15686e^{27}} + \frac{1}{375}\sqrt{81158e^{34}}$	$(-\frac{36}{125}, \frac{6}{25}, \frac{43}{75}, -\frac{53}{375}, -\frac{6}{125}, \frac{107}{375}, \frac{24}{125}, -\frac{42}{125}, \frac{54}{125})$ $+ \frac{1}{375}\sqrt{210738e^3} \otimes e_8$	{1268, 1359, 245789, 3467}
9531:11	$0, 0, 0, 0, \frac{36}{277}e^{12}, \frac{18}{277}\sqrt{55e^{13}}, \frac{81}{277}\sqrt{2e^{25}}, \frac{9}{277}\sqrt{62e^{15}},$ $\frac{18}{277}\sqrt{39e^{27}} + \frac{18}{277}\sqrt{15e^{34}}$	$(-\frac{54}{277}, \frac{45}{277}, \frac{18}{277}, \frac{63}{277}, -\frac{9}{277}, -\frac{36}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+ \frac{9}{277}\sqrt{130e^3} \otimes e_8 + \frac{9}{277}\sqrt{358e^2} \otimes e_6$	{1237, 156789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:11	$0, 0, 0, 0, \frac{4}{281}\sqrt{58}e^{12}, \frac{7}{281}\sqrt{174}e^{13}, \frac{4}{281}\sqrt{319}e^{25}, \frac{1}{281}\sqrt{4118}e^{15},$ $\frac{2}{281}\sqrt{1363}e^{27} + \frac{1}{281}\sqrt{4234}e^{34}$	$(-\frac{38}{281}, \frac{27}{281}, \frac{36}{281}, \frac{7}{281}, -\frac{11}{281}, -\frac{2}{281}, \frac{16}{281}, -\frac{49}{281}, \frac{43}{281})$ $+ \frac{3}{281}\sqrt{1102}e^2 \otimes e_6 + \frac{4}{281}\sqrt{319}e^3 \otimes e_4$	{146, 2478}
9531:11	$0, 0, 0, 0, \frac{28}{283}\sqrt{11}e^{12}, \frac{70}{283}\sqrt{11}e^{13}, \frac{14}{283}\sqrt{187}e^{25}, \frac{7}{283}\sqrt{858}e^{15},$ $\frac{7}{283}\sqrt{814}e^{27} + \frac{28}{283}\sqrt{55}e^{34}$	$(\frac{14}{283}, 0, -\frac{63}{283}, \frac{77}{283}, \frac{14}{283}, -\frac{49}{283}, \frac{14}{283}, \frac{28}{283}, \frac{14}{283})$ $+ \frac{14}{283}\sqrt{205}e^4 \otimes e_8 + \frac{14}{283}\sqrt{323}e^2 \otimes e_6$	{1234589, 2478}
9531:12	$0, 0, 0, 0, \frac{2}{1151}\sqrt{1983}e^{12}, \frac{4}{1151}\sqrt{61473}e^{13} + \frac{2}{1151}\sqrt{144759}e^{24},$ $\frac{2}{1151}\sqrt{144098}e^{15}, \frac{15}{1151}\sqrt{3966}e^{25}, \frac{1}{1151}\sqrt{281586}e^{17}$	$(\frac{10}{1151}, -\frac{132}{1151}, \frac{407}{1151}, \frac{549}{1151}, -\frac{122}{1151}, \frac{417}{1151}, -\frac{112}{1151}, -\frac{254}{1151}, -\frac{102}{1151})$ $+ \frac{4}{1151}\sqrt{85930}e^3 \otimes e_8$	{12468, 156789, 234569, 367}
9531:12	$0, 0, 0, 0, \frac{6}{1385}\sqrt{905}e^{12}, \frac{9}{1385}\sqrt{530}e^{13} + \frac{6}{1385}\sqrt{690}e^{24}, \frac{3}{1385}\sqrt{4190}e^{15},$ $\frac{9}{1385}\sqrt{10}e^{25}, \frac{30}{277}\sqrt{2}e^{17}$	$(-\frac{3}{277}, \frac{15}{277}, -\frac{12}{277}, -\frac{30}{277}, \frac{12}{277}, -\frac{15}{277}, \frac{9}{277}, \frac{27}{277}, \frac{6}{277})$ $+ \frac{3}{1385}\sqrt{6630}e^1 \otimes e_3 + \frac{6}{1385}\sqrt{1490}e^2 \otimes e_9$	{12478, 1589}
9531:12	$0, 0, 0, 0, \frac{38}{1239}\sqrt{287}e^{12}, \frac{1}{1239}\sqrt{637222}e^{13} + \frac{1}{1239}\sqrt{1142014}e^{24},$ $\frac{2}{1239}\sqrt{111397}e^{15}, \frac{19}{1239}\sqrt{1230}e^{25}, \frac{2}{1239}\sqrt{248501}e^{17}$	$(-\frac{85}{1239}, -\frac{6}{413}, \frac{191}{413}, \frac{506}{1239}, -\frac{103}{1239}, \frac{488}{1239}, -\frac{188}{1239}, -\frac{121}{1239}, -\frac{13}{59})$ $+ \frac{5}{1239}\sqrt{66994}e^4 \otimes e_9$	{1235689, 134678, 234, 3579}
9531:12	$0, 0, 0, 0, \frac{6}{421}\sqrt{1349}e^{12}, \frac{2}{1263}\sqrt{283290}e^{13} + \frac{2}{1263}\sqrt{39121}e^{24},$ $\frac{4}{1263}\sqrt{18886}e^{15}, \frac{1}{1263}\sqrt{342646}e^{25}, \frac{1}{1263}\sqrt{903830}e^{17}$	$(-\frac{90}{421}, \frac{304}{1263}, \frac{281}{421}, \frac{269}{1263}, \frac{34}{1263}, \frac{191}{1263}, -\frac{236}{1263}, \frac{338}{1263}, -\frac{506}{1263})$ $+ \frac{2}{1263}\sqrt{709574}e^3 \otimes e_9$	{12357, 169, 2789, 3568}
9531:12	$0, 0, 0, 0, \frac{31}{1645}\sqrt{358}e^{12}, \frac{62}{1645}\sqrt{127}e^{13} + \frac{31}{1645}\sqrt{362}e^{24},$ $\frac{31}{1645}\sqrt{230}e^{15}, \frac{62}{1645}\sqrt{138}e^{25}, \frac{31}{1645}\sqrt{574}e^{17}$	$(-\frac{62}{1645}, -\frac{93}{1645}, \frac{682}{1645}, \frac{713}{1645}, -\frac{31}{329}, \frac{124}{329}, -\frac{31}{235}, -\frac{248}{1645}, -\frac{279}{1645})$ $+ \frac{31}{1645}\sqrt{1418}e^4 \otimes e_8 + \frac{31}{1645}\sqrt{1502}e^3 \otimes e_9$	{123457, 1469}
9531:12	$0, 0, 0, 0, \frac{22}{211}\sqrt{2}e^{12}, \frac{22}{211}\sqrt{57}e^{13} + \frac{22}{211}\sqrt{29}e^{24}, \frac{22}{211}\sqrt{33}e^{15},$ $\frac{11}{211}\sqrt{210}e^{25}, \frac{11}{211}\sqrt{46}e^{17}$	$(0, -\frac{22}{211}, \frac{77}{211}, \frac{99}{211}, -\frac{22}{211}, \frac{77}{211}, -\frac{22}{211}, -\frac{44}{211}, -\frac{22}{211})$ $+ \frac{22}{211}\sqrt{10}e^4 \otimes e_9 + \frac{22}{211}\sqrt{85}e^3 \otimes e_8$	{123579, 134}
9531:12	$0, 0, 0, 0, \frac{34}{555}\sqrt{57}e^{12}, \frac{34}{555}\sqrt{55}e^{13} + \frac{34}{555}\sqrt{58}e^{24}, \frac{34}{555}\sqrt{39}e^{15},$ $\frac{17}{555}\sqrt{362}e^{25}, \frac{17}{555}\sqrt{26}e^{17}$	$(-\frac{34}{185}, \frac{34}{111}, \frac{51}{185}, -\frac{119}{555}, \frac{68}{555}, \frac{17}{185}, -\frac{34}{555}, \frac{238}{555}, -\frac{136}{555})$ $+ \frac{34}{555}\sqrt{103}e^3 \otimes e_9 + \frac{34}{555}\sqrt{146}e^2 \otimes e_4$	{134578, 479}
9531:12	$0, 0, 0, 0, \frac{36}{283}\sqrt{13}e^{12}, \frac{27}{283}\sqrt{13}e^{13} + \frac{9}{283}\sqrt{29}e^{24}, \frac{18}{283}\sqrt{35}e^{15},$ $\frac{18}{283}\sqrt{13}e^{25}, \frac{18}{283}\sqrt{22}e^{17}$	$(\frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{36}{283}, -\frac{45}{283}, \frac{54}{283}, \frac{54}{283}, \frac{72}{283})$ $+ \frac{9}{283}\sqrt{211}e^2 \otimes e_4 + \frac{9}{283}\sqrt{299}e^1 \otimes e_3$	{1278, 14589, 23579, 34}
9531:12	$0, 0, 0, 0, \frac{36}{283}\sqrt{13}e^{12}, \frac{27}{283}\sqrt{13}e^{13} + \frac{9}{283}\sqrt{29}e^{24}, \frac{18}{283}\sqrt{35}e^{15},$ $\frac{18}{283}\sqrt{13}e^{25}, \frac{18}{283}\sqrt{22}e^{17}$	$(\frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{36}{283}, -\frac{45}{283}, \frac{54}{283}, \frac{54}{283}, \frac{72}{283})$ $- \frac{9}{283}\sqrt{211}e^2 \otimes e_4 + \frac{9}{283}\sqrt{299}e^1 \otimes e_3$	{1278, 14589, 23579, 34}
9531:12	$0, 0, 0, 0, \frac{1}{55}\sqrt{462}e^{12}, \frac{1}{55}\sqrt{6}e^{13} + \frac{2}{55}\sqrt{110}e^{24}, \frac{4}{55}\sqrt{55}e^{15},$ $\frac{2}{55}\sqrt{33}e^{25}, \frac{1}{55}\sqrt{682}e^{17}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5})$ $+ \frac{1}{55}\sqrt{638}e^4 \otimes e_8 + \frac{2}{55}\sqrt{374}e^1 \otimes e_3$	{1247, 38}
9531:12	$0, 0, 0, 0, \frac{14}{667}\sqrt{15}e^{12}, \frac{14}{667}\sqrt{130}e^{13} + \frac{28}{2001}\sqrt{273}e^{24}, \frac{14}{2001}\sqrt{1173}e^{15},$ $\frac{7}{2001}\sqrt{2706}e^{25}, \frac{7}{667}\sqrt{598}e^{17}$	$(\frac{42}{667}, -\frac{70}{667}, -\frac{7}{667}, \frac{105}{667}, -\frac{28}{667}, \frac{35}{667}, \frac{14}{667}, -\frac{98}{667}, \frac{56}{667})$ $+ \frac{14}{2001}\sqrt{1329}e^4 \otimes e_9 + \frac{14}{2001}\sqrt{1437}e^1 \otimes e_3$	{1247, 159}
9531:12	$0, 0, 0, 0, \frac{19}{649}\sqrt{130}e^{12}, \frac{57}{649}\sqrt{14}e^{13} + \frac{38}{649}\sqrt{186}e^{24}, \frac{38}{649}\sqrt{2}e^{15},$ $\frac{38}{649}\sqrt{155}e^{25}, \frac{19}{59}\sqrt{2}e^{17}$	$(\frac{123}{649}, -\frac{191}{649}, \frac{149}{649}, \frac{463}{649}, -\frac{68}{649}, \frac{272}{649}, \frac{5}{59}, -\frac{259}{649}, \frac{178}{649})$ $+ \frac{19}{649}\sqrt{2126}e^4 \otimes e_8$	{12457, 13469, 26789, 358}
9531:12	$0, 0, 0, 0, \frac{33}{3341}\sqrt{670}e^{12}, \frac{33}{3341}\sqrt{1542}e^{13} + \frac{198}{3341}\sqrt{15}e^{24},$ $\frac{33}{3341}\sqrt{1238}e^{15}, \frac{66}{3341}\sqrt{705}e^{25}, \frac{660}{3341}e^{17}$	$(-\frac{363}{3341}, \frac{231}{3341}, \frac{1188}{3341}, \frac{594}{3341}, -\frac{132}{3341}, \frac{825}{3341}, -\frac{495}{3341}, \frac{99}{3341}, -\frac{66}{257})$ $+ \frac{33}{3341}\sqrt{3270}e^3 \otimes e_8 + \frac{66}{3341}\sqrt{691}e^2 \otimes e_9$	{23456, 3679}
9531:12	$0, 0, 0, 0, \frac{2}{1287}\sqrt{130453}e^{12}, \frac{1}{1287}\sqrt{689830}e^{13} + \frac{4}{1287}\sqrt{15026}e^{24},$ $\frac{1}{1287}\sqrt{916586}e^{15}, \frac{1}{1287}\sqrt{301886}e^{25}, \frac{2}{1287}\sqrt{160505}e^{17}$	$(\frac{269}{1287}, -\frac{17}{143}, -\frac{46}{143}, \frac{8}{1287}, \frac{116}{1287}, -\frac{145}{1287}, \frac{35}{117}, -\frac{37}{1287}, \frac{218}{429})$ $+ \frac{1}{1287}\sqrt{1506698}e^1 \otimes e_3$	{1247, 159, 2345789, 38}
9531:12	$0, 0, 0, 0, \frac{24}{2681}\sqrt{3255}e^{12}, \frac{18}{2681}\sqrt{6603}e^{13} + \frac{72}{2681}\sqrt{465}e^{24},$ $\frac{6}{2681}\sqrt{14973}e^{15}, \frac{180}{2681}\sqrt{62}e^{25}, \frac{12}{2681}\sqrt{21390}e^{17}$	$(-\frac{558}{2681}, \frac{801}{2681}, \frac{1083}{2681}, -\frac{276}{2681}, \frac{243}{2681}, \frac{75}{383}, -\frac{45}{383}, \frac{1044}{2681}, -\frac{873}{2681})$ $+ \frac{6}{2681}\sqrt{208041}e^2 \otimes e_9$	{123678, 12478, 1345689, 1589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:12	$0, 0, 0, 0, \frac{2}{1227}\sqrt{268359}e^{12}, \frac{4}{1227}\sqrt{12779}e^{13} + \frac{1}{1227}\sqrt{697930}e^{24},$ $\frac{1}{1227}\sqrt{340118}e^{15}, \frac{1}{409}\sqrt{127790}e^{25}, \frac{8}{1227}\sqrt{4915}e^{17}$	$(-\frac{49}{409}, \frac{451}{1227}, \frac{22}{409}, -\frac{532}{1227}, \frac{304}{1227}, -\frac{27}{409}, \frac{157}{1227}, \frac{755}{1227}, \frac{10}{1227})$ $+ \frac{1}{1227}\sqrt{2078062}e^2 \otimes e_4$	{1238, 1345789, 259, 47}
9531:12	$0, 0, 0, 0, \frac{21}{2045}\sqrt{397}e^{12}, \frac{21}{2045}\sqrt{723}e^{13} + \frac{504}{2045}\sqrt{2}e^{24}, \frac{21}{2045}\sqrt{58}e^{15},$ $\frac{168}{2045}\sqrt{15}e^{25}, \frac{21}{2045}\sqrt{973}e^{17}$	$(-\frac{147}{2045}, \frac{42}{2045}, \frac{567}{2045}, \frac{378}{2045}, -\frac{21}{409}, \frac{84}{409}, -\frac{252}{2045}, -\frac{63}{2045}, -\frac{399}{2045})$ $+ \frac{21}{2045}\sqrt{1497}e^4 \otimes e_8 + \frac{21}{2045}\sqrt{2182}e^2 \otimes e_9$	{123678, 1589}
9531:13	$0, 0, 0, 0, \frac{4}{155}\sqrt{285}e^{12}, \frac{8}{155}\sqrt{95}e^{34}, \frac{2}{31}\sqrt{57}e^{15}, \frac{2}{155}\sqrt{1995}e^{25},$ $\frac{4}{155}\sqrt{285}e^{17} + \frac{12}{155}\sqrt{190}e^{23}$	$(\frac{33}{155}, -\frac{3}{31}, \frac{99}{155}, -\frac{91}{155}, \frac{18}{155}, \frac{8}{155}, \frac{51}{155}, \frac{3}{155}, \frac{84}{155})$ $+ \frac{2}{155}\sqrt{12445}e^3 \otimes e_4$	{12358, 13789, 249, 457}
9531:13	$0, 0, 0, 0, \frac{1}{2044}\sqrt{1045}e^{12}, \frac{5}{2044}\sqrt{74}e^{34}, \frac{1}{2044}\sqrt{610}e^{15}, \frac{1}{1022}\sqrt{222}e^{25},$ $\frac{1}{2044}\sqrt{1045}e^{17} + \frac{1}{2044}\sqrt{1462}e^{23}$	$(\frac{9}{2044}, -\frac{29}{4088}, \frac{27}{2044}, -\frac{19}{2044}, -\frac{11}{4088}, \frac{2}{511}, \frac{1}{584}, -\frac{5}{511}, \frac{25}{4088})$ $+ \frac{1}{1022}\sqrt{569}e^1 \otimes e_6 + \frac{1}{2044}\sqrt{1370}e^4 \otimes e_8$	{1278, 1589}
9531:13	$0, 0, 0, 0, \frac{4}{167}\sqrt{30}e^{12}, \frac{4}{167}\sqrt{65}e^{34}, \frac{4}{167}\sqrt{38}e^{15}, \frac{4}{167}\sqrt{3}e^{25},$ $\frac{4}{167}\sqrt{55}e^{17} + \frac{8}{167}\sqrt{7}e^{23}$	$(-\frac{6}{167}, \frac{14}{167}, -\frac{18}{167}, \frac{4}{167}, \frac{8}{167}, -\frac{14}{167}, \frac{2}{167}, \frac{22}{167}, -\frac{4}{167})$ $+ \frac{20}{167}\sqrt{2}e^4 \otimes e_9 + \frac{28}{167}\sqrt{2}e^1 \otimes e_6$	{1589, 235679}
9531:13	$0, 0, 0, 0, \frac{32}{3523}\sqrt{5253}e^{12}, \frac{48}{3523}\sqrt{2193}e^{34}, \frac{16}{3523}\sqrt{3570}e^{15},$ $\frac{16}{3523}\sqrt{20927}e^{25}, \frac{240}{3523}\sqrt{17}e^{17} + \frac{32}{3523}\sqrt{170}e^{23}$	$(-\frac{200}{3523}, \frac{1016}{3523}, -\frac{600}{3523}, -\frac{560}{3523}, \frac{816}{3523}, -\frac{1160}{3523}, \frac{616}{3523}, \frac{1832}{3523}, \frac{32}{271})$ $+ \frac{16}{3523}\sqrt{49674}e^2 \otimes e_6$	{12348, 1356789, 259, 467}
9531:13	$0, 0, 0, 0, \frac{48}{5261}\sqrt{318}e^{12}, \frac{72}{5261}\sqrt{227}e^{34}, \frac{24}{5261}\sqrt{582}e^{15},$ $\frac{24}{5261}\sqrt{2237}e^{25}, \frac{24}{5261}\sqrt{29}e^{17} + \frac{48}{5261}\sqrt{217}e^{23}$	$(-\frac{228}{5261}, \frac{336}{5261}, -\frac{684}{5261}, \frac{732}{5261}, \frac{108}{5261}, \frac{48}{5261}, -\frac{120}{5261}, \frac{444}{5261}, -\frac{348}{5261})$ $+ \frac{24}{5261}\sqrt{2486}e^2 \otimes e_6 + \frac{48}{5261}\sqrt{571}e^4 \otimes e_8$	{135678, 4679}
9531:13	$0, 0, 0, 0, \frac{112}{3667}\sqrt{186}e^{12}, \frac{392}{3667}\sqrt{13}e^{34}, \frac{56}{3667}\sqrt{78}e^{15},$ $\frac{56}{3667}\sqrt{663}e^{25}, \frac{56}{3667}\sqrt{321}e^{17} + \frac{1008}{3667}\sqrt{2}e^{23}$	$(\frac{84}{3667}, \frac{504}{3667}, \frac{252}{3667}, -\frac{1316}{3667}, \frac{588}{3667}, -\frac{56}{193}, \frac{672}{3667}, \frac{1092}{3667}, \frac{756}{3667})$ $+ \frac{112}{3667}\sqrt{277}e^3 \otimes e_4 + \frac{56}{3667}\sqrt{2130}e^2 \otimes e_6$	{1356789, 467}
9531:13	$0, 0, 0, 0, \frac{28}{1283}\sqrt{94}e^{12}, \frac{28}{1283}\sqrt{354}e^{34}, \frac{84}{1283}e^{15}, \frac{28}{1283}\sqrt{163}e^{25},$ $\frac{28}{1283}\sqrt{197}e^{17} + \frac{28}{1283}\sqrt{221}e^{23}$	$(\frac{42}{1283}, -\frac{154}{1283}, \frac{126}{1283}, \frac{364}{1283}, -\frac{112}{1283}, \frac{490}{1283}, -\frac{70}{1283}, \frac{266}{1283}, -\frac{28}{1283})$ $+ \frac{28}{1283}\sqrt{565}e^3 \otimes e_8 + \frac{28}{1283}\sqrt{582}e^4 \otimes e_9$	{123457, 1369, 2789, 4568}
9531:13	$0, 0, 0, 0, \frac{28}{1283}\sqrt{94}e^{12}, \frac{28}{1283}\sqrt{354}e^{34}, \frac{84}{1283}e^{15}, \frac{28}{1283}\sqrt{163}e^{25},$ $\frac{28}{1283}\sqrt{197}e^{17} + \frac{28}{1283}\sqrt{221}e^{23}$	$(\frac{42}{1283}, -\frac{154}{1283}, \frac{126}{1283}, \frac{364}{1283}, -\frac{112}{1283}, \frac{490}{1283}, -\frac{70}{1283}, -\frac{266}{1283}, -\frac{28}{1283})$ $- \frac{28}{1283}\sqrt{565}e^3 \otimes e_8 + \frac{28}{1283}\sqrt{582}e^4 \otimes e_9$	{123457, 1369, 2789, 4568}
9531:13	$0, 0, 0, 0, \frac{40}{203}\sqrt{2}e^{12}, \frac{4}{203}\sqrt{330}e^{34}, \frac{4}{203}\sqrt{174}e^{15}, \frac{40}{203}e^{25},$ $\frac{40}{203}\sqrt{2}e^{17} + \frac{4}{203}\sqrt{178}e^{23}$	$(\frac{12}{203}, -\frac{4}{203}, \frac{36}{203}, -\frac{8}{29}, \frac{8}{203}, -\frac{20}{203}, \frac{20}{203}, \frac{4}{203}, \frac{32}{203})$ $+ \frac{4}{203}\sqrt{190}e^3 \otimes e_8 + \frac{8}{203}\sqrt{129}e^1 \otimes e_6$	{1278, 1589, 235679, 36}
9531:13	$0, 0, 0, 0, \frac{40}{203}\sqrt{2}e^{12}, \frac{4}{203}\sqrt{330}e^{34}, \frac{4}{203}\sqrt{174}e^{15}, \frac{40}{203}e^{25},$ $\frac{40}{203}\sqrt{2}e^{17} + \frac{4}{203}\sqrt{178}e^{23}$	$(\frac{12}{203}, -\frac{4}{203}, \frac{36}{203}, -\frac{8}{29}, \frac{8}{203}, -\frac{20}{203}, \frac{20}{203}, \frac{4}{203}, \frac{32}{203})$ $- \frac{4}{203}\sqrt{190}e^3 \otimes e_8 + \frac{8}{203}\sqrt{129}e^1 \otimes e_6$	{1278, 1589, 235679, 36}
9531:13	$0, 0, 0, 0, \frac{1}{36}\sqrt{33}e^{12}, \frac{1}{12}\sqrt{77}e^{34}, \frac{1}{12}\sqrt{11}e^{15}, \frac{11}{36}\sqrt{6}e^{25},$ $\frac{1}{36}\sqrt{33}e^{17} + \frac{1}{12}\sqrt{33}e^{23}$	$(\frac{7}{36}, -\frac{19}{72}, \frac{7}{12}, -\frac{1}{9}, -\frac{5}{72}, \frac{17}{36}, \frac{1}{8}, -\frac{1}{3}, \frac{23}{72})$ $+ \frac{1}{36}\sqrt{1947}e^3 \otimes e_8$	{124689, 1289, 145678, 1578, 2345, 2356, 3479, 3679}
9531:13	$0, 0, 0, 0, \frac{1}{36}\sqrt{33}e^{12}, \frac{1}{12}\sqrt{77}e^{34}, \frac{1}{12}\sqrt{11}e^{15}, \frac{11}{36}\sqrt{6}e^{25},$ $\frac{1}{36}\sqrt{33}e^{17} + \frac{1}{12}\sqrt{33}e^{23}$	$(\frac{7}{36}, -\frac{19}{72}, \frac{7}{12}, -\frac{1}{9}, -\frac{5}{72}, \frac{17}{36}, \frac{1}{8}, -\frac{1}{3}, \frac{23}{72})$ $- \frac{1}{36}\sqrt{1947}e^3 \otimes e_8$	{124689, 1289, 145678, 1578, 2345, 2356, 3479, 3679}
9531:13	$0, 0, 0, 0, \frac{48}{1037}\sqrt{38}e^{12}, \frac{24}{1037}\sqrt{313}e^{34}, \frac{24}{1037}\sqrt{22}e^{15}, \frac{72}{1037}\sqrt{21}e^{25},$ $\frac{24}{1037}\sqrt{89}e^{17} + \frac{168}{1037}\sqrt{2}e^{23}$	$(-\frac{96}{1037}, \frac{12}{61}, -\frac{288}{1037}, \frac{12}{61}, \frac{108}{1037}, -\frac{84}{1037}, \frac{12}{1037}, \frac{312}{1037}, -\frac{84}{1037})$ $+ \frac{24}{1037}\sqrt{394}e^4 \otimes e_9 + \frac{48}{1037}\sqrt{130}e^2 \otimes e_6$	{1289, 145678, 2345, 3679}
9531:13	$0, 0, 0, 0, \frac{48}{1037}\sqrt{38}e^{12}, \frac{24}{1037}\sqrt{313}e^{34}, \frac{24}{1037}\sqrt{22}e^{15}, \frac{72}{1037}\sqrt{21}e^{25},$ $\frac{24}{1037}\sqrt{89}e^{17} + \frac{168}{1037}\sqrt{2}e^{23}$	$(-\frac{96}{1037}, \frac{12}{61}, -\frac{288}{1037}, \frac{12}{61}, \frac{108}{1037}, -\frac{84}{1037}, \frac{12}{1037}, \frac{312}{1037}, -\frac{84}{1037})$ $- \frac{24}{1037}\sqrt{394}e^4 \otimes e_9 + \frac{48}{1037}\sqrt{130}e^2 \otimes e_6$	{1289, 145678, 2345, 3679}
9531:13	$0, 0, 0, 0, \frac{16}{229}\sqrt{38}e^{12}, \frac{8}{687}\sqrt{3553}e^{34}, \frac{8}{687}\sqrt{874}e^{15}, \frac{8}{687}\sqrt{323}e^{25},$ $\frac{8}{687}\sqrt{4009}e^{17} + \frac{8}{229}\sqrt{266}e^{23}$	$(-\frac{64}{687}, \frac{28}{229}, -\frac{64}{229}, \frac{500}{687}, \frac{20}{687}, \frac{308}{687}, -\frac{44}{687}, \frac{104}{687}, -\frac{36}{229})$ $+ \frac{8}{687}\sqrt{10754}e^4 \otimes e_9$	{12589, 14678, 234, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:13	$0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{2}e^{34}, \frac{1}{6}\sqrt{6}e^{15}, \frac{1}{12}\sqrt{6}e^{25},$ $\frac{1}{4}\sqrt{3}e^{17} + \frac{1}{12}\sqrt{30}e^{23}$	$(0, \frac{1}{8}, 0, -\frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8})$ $+ \frac{1}{12}\sqrt{66}e^1 \otimes e_6 + \frac{1}{12}\sqrt{6}e^3 \otimes e_4$	{1278, 1589}
9531:13	$0, 0, 0, 0, \frac{1}{426}\sqrt{33919}e^{12}, \frac{1}{213}\sqrt{30115}e^{34}, \frac{1}{142}\sqrt{3170}e^{15},$ $\frac{1}{426}\sqrt{129970}e^{25}, \frac{1}{426}\sqrt{33919}e^{17} + \frac{1}{71}\sqrt{634}e^{23}$	$(\frac{4}{213}, -\frac{89}{852}, \frac{4}{71}, \frac{118}{213}, -\frac{73}{852}, \frac{130}{213}, -\frac{19}{284}, -\frac{27}{142}, -\frac{41}{852})$ $+ \frac{1}{213}\sqrt{56426}e^4 \otimes e_8$	{123689, 135678, 2456, 4679}
9531:13	$0, 0, 0, 0, \frac{4}{179}\sqrt{345}e^{12}, \frac{8}{179}\sqrt{115}e^{34}, \frac{4}{179}\sqrt{322}e^{15}, \frac{2}{179}\sqrt{253}e^{25},$ $\frac{4}{179}\sqrt{345}e^{17} + \frac{2}{179}\sqrt{1403}e^{23}$	$(\frac{3}{179}, \frac{18}{179}, \frac{9}{179}, -\frac{52}{179}, \frac{21}{179}, -\frac{43}{179}, \frac{24}{179}, \frac{39}{179}, \frac{27}{179})$ $+ \frac{2}{179}\sqrt{3473}e^1 \otimes e_6$	{1278, 1589, 235679, 36}
9531:14	$0, 0, 0, 0, \frac{9}{245}\sqrt{58}e^{12}, \frac{9}{49}\sqrt{3}e^{13}, \frac{9}{245}\sqrt{65}e^{15},$ $\frac{9}{245}\sqrt{21}e^{14} + \frac{72}{245}\sqrt{3}e^{25}, \frac{9}{245}\sqrt{58}e^{17}$	$(-\frac{27}{245}, \frac{18}{245}, \frac{18}{49}, \frac{36}{245}, -\frac{9}{245}, \frac{9}{35}, -\frac{36}{245}, \frac{9}{245}, -\frac{9}{35})$ $+ \frac{18}{245}\sqrt{51}e^3 \otimes e_8 + \frac{9}{245}\sqrt{235}e^2 \otimes e_9$	{23456, 34679}
9531:14	$0, 0, 0, 0, \frac{74}{2593}\sqrt{311}e^{12}, \frac{148}{2593}\sqrt{78}e^{13}, \frac{74}{2593}\sqrt{2}e^{15},$ $\frac{74}{2593}\sqrt{861}e^{14} + \frac{74}{2593}\sqrt{154}e^{25}, \frac{74}{2593}\sqrt{785}e^{17}$	$(-\frac{624}{2593}, \frac{866}{2593}, \frac{713}{2593}, \frac{1732}{2593}, \frac{242}{2593}, \frac{89}{2593}, -\frac{382}{2593}, \frac{1108}{2593}, -\frac{1006}{2593})$ $+ \frac{296}{2593}\sqrt{137}e^4 \otimes e_9$	{1235689, 12589, 3579, 5679}
9531:14	$0, 0, 0, 0, \frac{2}{57}\sqrt{330}e^{12}, \frac{11}{57}\sqrt{3}e^{13}, \frac{1}{57}\sqrt{165}e^{15},$ $\frac{1}{57}\sqrt{1155}e^{14} + \frac{4}{19}\sqrt{11}e^{25}, \frac{2}{57}\sqrt{330}e^{17}$	$(-\frac{11}{57}, \frac{13}{57}, \frac{14}{57}, \frac{26}{57}, \frac{2}{57}, \frac{1}{19}, -\frac{3}{19}, \frac{5}{19}, -\frac{20}{57})$ $+ \frac{1}{57}\sqrt{3201}e^2 \otimes e_9$	{1234678, 12478, 1345689, 14589}
9531:14	$0, 0, 0, 0, \frac{26}{6853}\sqrt{319}e^{12}, \frac{13}{6853}\sqrt{6130}e^{13}, \frac{13}{6853}\sqrt{3646}e^{15},$ $\frac{104}{6853}\sqrt{3}e^{14} + \frac{26}{6853}\sqrt{1462}e^{25}, \frac{13}{6853}\sqrt{2122}e^{17}$	$(-\frac{299}{6853}, \frac{260}{6853}, \frac{390}{6853}, \frac{520}{6853}, -\frac{39}{6853}, \frac{13}{979}, -\frac{338}{6853}, \frac{221}{6853}, -\frac{91}{979})$ $+ \frac{13}{6853}\sqrt{6062}e^3 \otimes e_8 + \frac{26}{6853}\sqrt{1699}e^2 \otimes e_6$	{1456789, 3467}
9531:14	$0, 0, 0, 0, \frac{4}{693}\sqrt{10547}e^{12}, \frac{2}{693}\sqrt{14726}e^{13}, \frac{4}{693}\sqrt{13731}e^{15},$ $\frac{2}{693}\sqrt{45571}e^{14} + \frac{4}{693}\sqrt{995}e^{25}, \frac{4}{693}\sqrt{10547}e^{17}$	$(\frac{148}{693}, -\frac{125}{693}, \frac{1}{21}, -\frac{250}{693}, \frac{23}{693}, \frac{181}{693}, \frac{19}{77}, -\frac{34}{231}, \frac{29}{63})$ $+ \frac{2}{693}\sqrt{116614}e^1 \otimes e_4$	{2345679, 24579, 346, 4}
9531:14	$0, 0, 0, 0, \frac{38}{821}\sqrt{69}e^{12}, \frac{19}{821}\sqrt{254}e^{13}, \frac{19}{821}\sqrt{438}e^{15},$ $\frac{38}{821}\sqrt{93}e^{14} + \frac{19}{821}\sqrt{210}e^{25}, \frac{38}{821}\sqrt{69}e^{17}$	$(\frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{114}{821}, \frac{247}{821}, \frac{171}{821}, \frac{171}{821}, \frac{228}{821})$ $+ \frac{19}{821}\sqrt{1042}e^1 \otimes e_3 + \frac{38}{821}\sqrt{105}e^4 \otimes e_6$	{1247, 1459, 2345789, 348}
9531:14	$0, 0, 0, 0, \frac{5}{40}\sqrt{234}e^{12}, \frac{5}{234}\sqrt{191}e^{13}, \frac{5}{117}\sqrt{51}e^{15},$ $\frac{5}{117}e^{14} + \frac{5}{234}\sqrt{47}e^{25}, \frac{5}{234}\sqrt{293}e^{17}$	$(\frac{5}{117}, -\frac{10}{117}, \frac{10}{39}, -\frac{20}{117}, -\frac{5}{117}, \frac{35}{117}, 0, -\frac{5}{39}, \frac{5}{117})$ $+ \frac{5}{234}\sqrt{505}e^1 \otimes e_4 + \frac{5}{78}\sqrt{38}e^3 \otimes e_9$	{24579, 346}
9531:14	$0, 0, 0, 0, \frac{21}{64}e^{12}, \frac{3}{128}\sqrt{114}e^{13}, \frac{3}{128}\sqrt{5}e^{15},$ $\frac{3}{64}\sqrt{23}e^{14} + \frac{3}{64}\sqrt{11}e^{25}, \frac{21}{128}e^{17}$	$(-\frac{9}{128}, \frac{15}{256}, \frac{15}{128}, \frac{15}{128}, -\frac{3}{256}, \frac{3}{64}, -\frac{21}{256}, \frac{3}{64}, -\frac{39}{256})$ $+ \frac{3}{128}\sqrt{134}e^3 \otimes e_8 - \frac{3}{32}\sqrt{7}e^4 \otimes e_6$	{1234579, 134, 2478, 4589}
9531:14	$0, 0, 0, 0, \frac{9}{149}\sqrt{70}e^{12}, \frac{9}{149}\sqrt{3}e^{13}, \frac{9}{149}\sqrt{5}e^{15},$ $\frac{27}{149}\sqrt{5}e^{14} + \frac{36}{149}\sqrt{6}e^{25}, \frac{9}{149}\sqrt{70}e^{17}$	$(-\frac{27}{149}, \frac{36}{149}, \frac{18}{149}, \frac{72}{149}, \frac{9}{149}, -\frac{9}{149}, -\frac{18}{149}, \frac{45}{149}, -\frac{45}{149})$ $+ \frac{18}{149}\sqrt{15}e^4 \otimes e_6 + \frac{9}{149}\sqrt{199}e^2 \otimes e_9$	{245, 479}
9531:14	$0, 0, 0, 0, \frac{6}{73}\sqrt{37}e^{12}, \frac{1}{73}\sqrt{1702}e^{13}, \frac{2}{73}\sqrt{185}e^{15},$ $\frac{2}{73}\sqrt{222}e^{14} + \frac{2}{73}\sqrt{518}e^{25}, \frac{1}{73}\sqrt{222}e^{17}$	$(-\frac{7}{73}, \frac{16}{73}, -\frac{14}{73}, \frac{32}{73}, \frac{9}{73}, -\frac{21}{73}, \frac{2}{73}, \frac{25}{73}, -\frac{5}{73})$ $+ \frac{1}{73}\sqrt{3922}e^2 \otimes e_6 + \frac{1}{73}\sqrt{814}e^4 \otimes e_9$	{12348, 3467}
9531:14	$0, 0, 0, 0, \frac{3}{209}\sqrt{1182}e^{12}, \frac{9}{209}\sqrt{6}e^{13}, \frac{3}{209}\sqrt{570}e^{15},$ $\frac{6}{209}\sqrt{51}e^{14} + \frac{3}{209}\sqrt{570}e^{25}, \frac{3}{209}\sqrt{366}e^{17}$	$(\frac{9}{209}, \frac{18}{209}, -\frac{72}{209}, \frac{36}{209}, \frac{27}{209}, -\frac{63}{209}, \frac{36}{209}, \frac{45}{209}, \frac{45}{209})$ $+ \frac{12}{209}\sqrt{102}e^2 \otimes e_6 + \frac{3}{209}\sqrt{1686}e^1 \otimes e_3$	{145689, 346}
9531:14	$0, 0, 0, 0, \frac{3}{92}\sqrt{61}e^{12}, \frac{3}{184}\sqrt{186}e^{13}, \frac{3}{184}\sqrt{190}e^{15},$ $\frac{9}{184}\sqrt{6}e^{14} + \frac{3}{92}\sqrt{21}e^{25}, \frac{3}{92}\sqrt{61}e^{17}$	$(-\frac{3}{92}, \frac{15}{184}, -\frac{3}{23}, \frac{15}{92}, \frac{9}{184}, -\frac{15}{92}, \frac{3}{184}, \frac{3}{23}, -\frac{3}{184})$ $+ \frac{3}{184}\sqrt{322}e^2 \otimes e_9 + \frac{3}{92}\sqrt{87}e^1 \otimes e_3$	{12478, 14589}
9531:14	$0, 0, 0, 0, \frac{4}{2653}\sqrt{151145}e^{12}, \frac{8}{2653}\sqrt{47101}e^{13}, \frac{4}{2653}\sqrt{74518}e^{15},$ $\frac{2}{2653}\sqrt{498427}e^{14} + \frac{2}{2653}\sqrt{887186}e^{25}, \frac{2}{2653}\sqrt{203870}e^{17}$	$(-\frac{156}{2653}, \frac{531}{2653}, -\frac{719}{2653}, \frac{1062}{2653}, \frac{375}{2653}, -\frac{125}{379}, \frac{219}{2653}, \frac{906}{2653}, \frac{9}{379})$ $+ \frac{20}{2653}\sqrt{16169}e^2 \otimes e_6$	{12348, 1456789, 2459, 3467}
9531:14	$0, 0, 0, 0, \frac{38}{821}\sqrt{69}e^{12}, \frac{19}{821}\sqrt{254}e^{13}, \frac{19}{821}\sqrt{438}e^{15},$ $\frac{38}{821}\sqrt{93}e^{14} + \frac{19}{821}\sqrt{210}e^{25}, \frac{38}{821}\sqrt{69}e^{17}$	$(\frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{114}{821}, \frac{247}{821}, \frac{171}{821}, \frac{171}{821}, \frac{228}{821})$ $+ \frac{19}{821}\sqrt{1042}e^1 \otimes e_3 - \frac{38}{821}\sqrt{105}e^4 \otimes e_6$	{1247, 1459, 2345789, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:14	$0, 0, 0, 0, \frac{10}{123}\sqrt{22}e^{12}, \frac{2}{123}\sqrt{1265}e^{13}, \frac{1}{123}\sqrt{2090}e^{15},$ $\frac{1}{123}\sqrt{1870}e^{14} + \frac{2}{123}\sqrt{110}e^{25}, \frac{1}{123}\sqrt{770}e^{17}$	$(-\frac{7}{41}, \frac{26}{123}, \frac{6}{41}, \frac{52}{123}, \frac{5}{123}, -\frac{1}{41}, -\frac{16}{123}, \frac{31}{123}, -\frac{37}{123})$ $+\frac{1}{123}\sqrt{6490}e^4 \otimes e_6 + \frac{2}{41}\sqrt{165}e^3 \otimes e_9$	{123457, 24789}
9531:14	$0, 0, 0, 0, \frac{20}{2669}\sqrt{4015}e^{12}, \frac{20}{2669}\sqrt{12155}e^{13}, \frac{20}{2669}\sqrt{1705}e^{15},$ $\frac{10}{2669}\sqrt{21395}e^{14} + \frac{10}{2669}\sqrt{17490}e^{25}, \frac{10}{2669}\sqrt{45210}e^{17}$	$(-\frac{460}{2669}, \frac{415}{2669}, \frac{105}{157}, \frac{830}{2669}, -\frac{45}{2669}, \frac{1325}{2669}, -\frac{505}{2669}, \frac{370}{2669}, -\frac{965}{2669})$ $+\frac{20}{2669}\sqrt{30635}e^3 \otimes e_9$	{12357, 169, 2789, 3568}
9531:14	$0, 0, 0, 0, \frac{21}{128}e^{12}, \frac{3}{128}\sqrt{114}e^{13}, \frac{3}{32}\sqrt{5}e^{15},$ $\frac{3}{64}\sqrt{23}e^{14} + \frac{3}{64}\sqrt{11}e^{25}, \frac{21}{128}e^{17}$	$(-\frac{9}{128}, \frac{15}{256}, \frac{15}{128}, \frac{15}{128}, -\frac{3}{256}, \frac{3}{64}, \frac{21}{256}, \frac{3}{64}, -\frac{39}{256})$ $+\frac{3}{128}\sqrt{134}e^3 \otimes e_8 + \frac{3}{32}\sqrt{7}e^4 \otimes e_6$	{1234579, 134, 2478, 4589}
9531:14	$0, 0, 0, 0, \frac{94}{5677}\sqrt{451}e^{12}, \frac{47}{5677}\sqrt{2522}e^{13}, \frac{47}{5677}\sqrt{2386}e^{15},$ $\frac{752}{5677}\sqrt{14}e^{14} + \frac{94}{5677}\sqrt{502}e^{25}, \frac{47}{5677}\sqrt{262}e^{17}$	$(-\frac{611}{5677}, \frac{376}{5677}, \frac{2350}{5677}, \frac{752}{5677}, -\frac{235}{5677}, \frac{1739}{5677}, -\frac{846}{5677}, \frac{141}{5677}, -\frac{1457}{5677})$ $+\frac{47}{5677}\sqrt{6266}e^3 \otimes e_8 + \frac{94}{5677}\sqrt{1033}e^4 \otimes e_9$	{123457, 458}
9531:14	$0, 0, 0, 0, \frac{12}{187}\sqrt{15}e^{12}, \frac{30}{187}\sqrt{2}e^{13}, \frac{12}{187}\sqrt{5}e^{15},$ $\frac{6}{187}\sqrt{59}e^{14} + \frac{24}{187}\sqrt{3}e^{25}, \frac{24}{187}e^{17}$	$(\frac{12}{187}, -\frac{3}{187}, -\frac{3}{17}, -\frac{6}{187}, \frac{9}{187}, -\frac{21}{187}, \frac{21}{187}, \frac{6}{17}, \frac{3}{17})$ $+\frac{12}{187}\sqrt{22}e^2 \otimes e_6 + \frac{6}{187}\sqrt{82}e^1 \otimes e_4$	{24579, 346}
9531:14	$0, 0, 0, 0, \frac{3}{640}\sqrt{9177}e^{12}, \frac{19}{640}\sqrt{690}e^{13}, \frac{1}{32}\sqrt{437}e^{15},$ $\frac{1}{320}\sqrt{38019}e^{14} + \frac{1}{320}\sqrt{48507}e^{25}, \frac{3}{640}\sqrt{9177}e^{17}$	$(\frac{11}{640}, -\frac{93}{1280}, \frac{71}{128}, -\frac{93}{640}, -\frac{71}{1280}, \frac{183}{320}, -\frac{49}{128}, -\frac{41}{320}, -\frac{27}{1280})$ $+\frac{1}{640}\sqrt{488566}e^3 \otimes e_8$	{1234579, 134, 2478, 4589}
9531:14	$0, 0, 0, 0, \frac{11}{624}\sqrt{985}e^{12}, \frac{11}{312}\sqrt{590}e^{13}, \frac{11}{39}\sqrt{5}e^{15},$ $\frac{11}{624}\sqrt{2410}e^{14} + \frac{55}{312}e^{25}, \frac{11}{624}\sqrt{985}e^{17}$	$(-\frac{23}{208}, \frac{383}{1248}, -\frac{51}{208}, \frac{383}{624}, \frac{245}{1248}, -\frac{37}{104}, \frac{107}{1248}, \frac{157}{312}, -\frac{31}{1248})$ $+\frac{11}{624}\sqrt{5410}e^4 \otimes e_6$	{1256789, 168, 2367, 3569}
9531:14	$0, 0, 0, 0, \frac{7}{289}\sqrt{74}e^{12}, \frac{7}{289}\sqrt{170}e^{13}, \frac{63}{289}\sqrt{2}e^{15},$ $\frac{14}{289}\sqrt{35}e^{14} + \frac{7}{289}\sqrt{86}e^{25}, \frac{7}{289}\sqrt{178}e^{17}$	$(-\frac{7}{289}, \frac{28}{289}, -\frac{56}{289}, \frac{56}{289}, \frac{21}{289}, -\frac{63}{289}, \frac{14}{289}, \frac{49}{289}, \frac{7}{289})$ $+\frac{28}{289}\sqrt{13}e^4 \otimes e_9 + \frac{7}{289}\sqrt{326}e^1 \otimes e_3$	{1247, 348}
9531:14	$0, 0, 0, 0, \frac{204}{677}e^{12}, \frac{34}{677}\sqrt{87}e^{13}, \frac{17}{677}\sqrt{118}e^{15},$ $\frac{68}{677}\sqrt{6}e^{14} + \frac{677}{677}\sqrt{222}e^{25}, \frac{204}{677}e^{17}$	$(\frac{85}{677}, -\frac{102}{677}, \frac{170}{677}, -\frac{204}{677}, -\frac{17}{677}, \frac{255}{677}, \frac{68}{677}, -\frac{119}{677}, \frac{153}{677})$ $+\frac{17}{677}\sqrt{526}e^3 \otimes e_8 + \frac{51}{677}\sqrt{74}e^1 \otimes e_4$	{2345679, 346}
9531:14	$0, 0, 0, 0, \frac{1}{667}\sqrt{139494}e^{12}, \frac{1}{667}\sqrt{165866}e^{13}, \frac{1}{667}\sqrt{210282}e^{15},$ $\frac{2}{667}\sqrt{17697}e^{14} + \frac{1}{667}\sqrt{72870}e^{25}, \frac{1}{667}\sqrt{139494}e^{17}$	$(\frac{99}{667}, -\frac{6}{667}, -\frac{248}{667}, -\frac{12}{667}, \frac{93}{667}, -\frac{149}{667}, \frac{192}{667}, \frac{3}{23}, \frac{291}{667})$ $+\frac{1}{667}\sqrt{400438}e^1 \otimes e_3$	{1247, 1459, 2345789, 348}
9531:15	$0, 0, 0, 0, \frac{434}{7513}\sqrt{5}e^{12}, \frac{31}{7513}\sqrt{4846}e^{13}, \frac{31}{7513}\sqrt{3134}e^{25},$ $\frac{93}{7513}\sqrt{394}e^{15} + \frac{62}{7513}\sqrt{1039}e^{24}, \frac{155}{7513}\sqrt{158}e^{27}$	$(\frac{589}{7513}, -\frac{124}{7513}, -\frac{1674}{7513}, \frac{1178}{7513}, \frac{465}{7513}, -\frac{1085}{7513}, \frac{31}{683}, \frac{1054}{7513}, \frac{217}{7513})$ $+\frac{31}{7513}\sqrt{5014}e^4 \otimes e_9 + \frac{93}{7513}\sqrt{946}e^2 \otimes e_6$	{123589, 35679}
9531:15	$0, 0, 0, 0, \frac{3}{221}\sqrt{822}e^{12}, \frac{9}{221}\sqrt{78}e^{13}, \frac{12}{221}\sqrt{57}e^{25},$ $\frac{6}{221}\sqrt{15}e^{15} + \frac{24}{221}\sqrt{3}e^{24}, \frac{3}{221}\sqrt{618}e^{27}$	$(\frac{9}{221}, \frac{18}{221}, -\frac{72}{221}, \frac{18}{221}, \frac{27}{221}, -\frac{63}{221}, \frac{45}{221}, \frac{36}{221}, \frac{63}{221})$ $+\frac{3}{221}\sqrt{1110}e^1 \otimes e_3 + \frac{84}{221}\sqrt{3}e^2 \otimes e_6$	{1456789, 3468}
9531:15	$0, 0, 0, 0, \frac{3}{8213}\sqrt{5014}e^{12}, \frac{6}{8213}\sqrt{1977}e^{13}, \frac{3}{8213}\sqrt{1970}e^{25},$ $\frac{6}{8213}\sqrt{571}e^{15} + \frac{21}{8213}\sqrt{182}e^{24}, \frac{6}{8213}\sqrt{265}e^{27}$	$(\frac{57}{8213}, -\frac{75}{8213}, \frac{48}{8213}, \frac{114}{8213}, -\frac{18}{8213}, \frac{105}{8213}, -\frac{93}{8213}, \frac{39}{8213}, -\frac{168}{8213})$ $+\frac{12}{8213}\sqrt{455}e^3 \otimes e_8 + \frac{3}{8213}\sqrt{8422}e^4 \otimes e_6$	{1256789, 3569}
9531:15	$0, 0, 0, 0, \frac{26}{541}\sqrt{170}e^{12}, \frac{4}{541}\sqrt{13702}e^{13}, \frac{34}{541}\sqrt{39}e^{25},$ $\frac{2}{541}\sqrt{16133}e^{15} + \frac{2}{541}\sqrt{1105}e^{24}, \frac{2}{541}\sqrt{49062}e^{27}$	$(\frac{40}{541}, -\frac{63}{541}, \frac{293}{541}, \frac{80}{541}, -\frac{23}{541}, \frac{333}{541}, -\frac{86}{541}, \frac{17}{541}, -\frac{149}{541})$ $+\frac{4}{541}\sqrt{25194}e^3 \otimes e_9$	{125689, 13, 23678, 579}
9531:15	$0, 0, 0, 0, \frac{42}{5981}\sqrt{457}e^{12}, \frac{42}{5981}\sqrt{822}e^{13}, \frac{168}{5981}\sqrt{37}e^{25},$ $\frac{63}{5981}\sqrt{30}e^{15} + \frac{21}{5981}\sqrt{282}e^{24}, \frac{84}{5981}\sqrt{217}e^{27}$	$(\frac{399}{5981}, -\frac{147}{5981}, \frac{987}{5981}, \frac{798}{5981}, \frac{252}{5981}, -\frac{588}{5981}, \frac{105}{5981}, \frac{651}{5981}, -\frac{42}{5981})$ $+\frac{21}{5981}\sqrt{4870}e^1 \otimes e_9 + \frac{63}{5981}\sqrt{642}e^2 \otimes e_6$	{123478, 24589}
9531:15	$0, 0, 0, 0, \frac{2}{99}\sqrt{119}e^{12}, \frac{8}{99}\sqrt{51}e^{13}, \frac{4}{99}\sqrt{34}e^{25},$ $\frac{8}{99}\sqrt{34}e^{15} + \frac{2}{99}\sqrt{1785}e^{24}, \frac{34}{99}\sqrt{5}e^{27}$	$(\frac{32}{99}, -\frac{70}{297}, \frac{1}{297}, \frac{64}{99}, \frac{26}{297}, \frac{97}{297}, -\frac{4}{27}, \frac{122}{297}, -\frac{38}{99})$ $+\frac{4}{99}\sqrt{1054}e^4 \otimes e_9$	{1379, 1679, 23689, 289}
9531:15	$0, 0, 0, 0, \frac{16}{2857}\sqrt{1202}e^{12}, \frac{8}{2857}\sqrt{43873}e^{13}, \frac{2}{2857}\sqrt{608813}e^{25},$ $\frac{10}{2857}\sqrt{18631}e^{15} + \frac{2}{2857}\sqrt{356393}e^{24}, \frac{4}{2857}\sqrt{106978}e^{27}$	$(-\frac{72}{2857}, \frac{411}{2857}, -\frac{719}{2857}, -\frac{144}{2857}, \frac{339}{2857}, -\frac{791}{2857}, \frac{750}{2857}, \frac{267}{2857}, \frac{1161}{2857})$ $+\frac{4}{2857}\sqrt{361802}e^2 \otimes e_6$	{12347, 1456789, 2459, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:15	$0, 0, 0, 0, \frac{101}{157}e^{12}, \frac{2}{157}\sqrt{4343}e^{13}, \frac{1}{157}\sqrt{1515}e^{25},$ $\frac{101}{157}e^{15} + \frac{1}{157}\sqrt{18382}e^{24}, \frac{1}{157}\sqrt{1515}e^{27}$	$(\frac{33}{157}, -\frac{15}{314}, -\frac{68}{157}, \frac{66}{157}, \frac{51}{314}, -\frac{35}{157}, \frac{18}{157}, \frac{117}{314}, \frac{21}{314})$ $+ \frac{1}{157}\sqrt{28078}e^4 \otimes e_6$	{1256789, 167, 2368, 3569}
9531:15	$0, 0, 0, 0, \frac{420}{3061}e^{12}, \frac{60}{3061}\sqrt{305}e^{13}, \frac{30}{3061}\sqrt{483}e^{25},$ $\frac{30}{3061}\sqrt{403}e^{15} + \frac{1}{3061}\sqrt{921}e^{24}, \frac{90}{3061}\sqrt{46}e^{27}$	$(-\frac{300}{3061}, \frac{345}{3061}, \frac{195}{3061}, -\frac{600}{3061}, \frac{45}{3061}, -\frac{105}{3061}, \frac{390}{3061}, -\frac{255}{3061}, \frac{735}{3061})$ $+ \frac{30}{3061}\sqrt{1094}e^3 \otimes e_8 + \frac{30}{3061}\sqrt{1646}e^2 \otimes e_6$	{278, 35679}
9531:15	$0, 0, 0, 0, \frac{39}{5645}\sqrt{778}e^{12}, \frac{78}{5645}\sqrt{615}e^{13}, \frac{78}{5645}\sqrt{170}e^{25},$ $\frac{234}{5645}\sqrt{87}e^{15} + \frac{39}{5645}\sqrt{114}e^{24}, \frac{78}{5645}\sqrt{502}e^{27}$	$(\frac{273}{5645}, -\frac{507}{5645}, \frac{312}{5645}, \frac{546}{5645}, -\frac{234}{5645}, \frac{1833}{5645}, \frac{741}{5645}, \frac{39}{5645}, -\frac{1248}{5645})$ $+ \frac{1053}{5645}\sqrt{6}e^3 \otimes e_8 + \frac{39}{5645}\sqrt{5710}e^1 \otimes e_9$	{135, 3679}
9531:15	$0, 0, 0, 0, \frac{7}{157}\sqrt{74}e^{12}, \frac{1}{157}\sqrt{4186}e^{13}, \frac{11}{157}\sqrt{14}e^{25},$ $\frac{2}{157}\sqrt{14}e^{15} + \frac{2}{157}\sqrt{1582}e^{24}, \frac{7}{157}\sqrt{34}e^{27}$	$(\frac{7}{157}, -\frac{14}{157}, \frac{49}{157}, \frac{14}{157}, -\frac{7}{157}, \frac{56}{157}, -\frac{21}{157}, 0, -\frac{35}{157})$ $+ \frac{1}{157}\sqrt{6398}e^4 \otimes e_9 + \frac{3}{157}\sqrt{854}e^3 \otimes e_8$	{123457, 458}
9531:15	$0, 0, 0, 0, \frac{33}{2669}\sqrt{10}e^{12}, \frac{66}{2669}\sqrt{417}e^{13}, \frac{231}{2669}\sqrt{2}e^{25},$ $\frac{594}{2669}e^{15} + \frac{33}{2669}\sqrt{582}e^{24}, \frac{66}{2669}\sqrt{211}e^{27}$	$(\frac{33}{157}, -\frac{363}{2669}, -\frac{528}{2669}, \frac{66}{157}, \frac{198}{2669}, \frac{33}{2669}, -\frac{165}{2669}, \frac{759}{2669}, -\frac{528}{2669})$ $+ \frac{132}{2669}\sqrt{157}e^1 \otimes e_9 + \frac{99}{2669}\sqrt{246}e^4 \otimes e_6$	{156, 3679}
9531:15	$0, 0, 0, 0, \frac{2}{2729}\sqrt{800137}e^{12}, \frac{4}{2729}\sqrt{49166}e^{13}, \frac{28}{2729}\sqrt{4758}e^{25},$ $\frac{4}{2729}\sqrt{26962}e^{15} + \frac{2}{2729}\sqrt{741455}e^{24}, \frac{2}{2729}\sqrt{701805}e^{27}$	$(-\frac{496}{2729}, \frac{594}{2729}, \frac{649}{2729}, \frac{992}{2729}, \frac{98}{2729}, \frac{153}{2729}, \frac{692}{2729}, -\frac{398}{2729}, \frac{1286}{2729})$ $+ \frac{4}{2729}\sqrt{461526}e^2 \otimes e_4$	{1345679, 14579, 34, 46}
9531:15	$0, 0, 0, 0, \frac{4}{2665}\sqrt{143773}e^{12}, \frac{16}{2665}\sqrt{16215}e^{13}, \frac{2}{2665}\sqrt{362135}e^{25},$ $\frac{2}{2665}\sqrt{342677}e^{15} + \frac{66}{2665}\sqrt{1081}e^{24}, \frac{4}{2665}\sqrt{14053}e^{27}$	$(-\frac{344}{2665}, \frac{231}{2665}, \frac{341}{533}, -\frac{688}{2665}, -\frac{113}{2665}, \frac{1361}{2665}, \frac{118}{2665}, -\frac{457}{2665}, \frac{349}{2665})$ $+ \frac{4}{2665}\sqrt{611846}e^3 \otimes e_8$	{1234579, 14678, 2346, 4589}
9531:15	$0, 0, 0, 0, \frac{3}{187}\sqrt{814}e^{12}, \frac{12}{187}\sqrt{11}e^{13}, \frac{21}{187}\sqrt{22}e^{25},$ $\frac{3}{187}\sqrt{286}e^{15} + \frac{6}{17}e^{24}, \frac{3}{187}\sqrt{902}e^{27}$	$(-\frac{3}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{6}{17}, 0, \frac{3}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17})$ $+ \frac{21}{187}\sqrt{22}e^3 \otimes e_8 + \frac{3}{187}\sqrt{2486}e^2 \otimes e_4$	{134579, 346}
9531:15	$0, 0, 0, 0, \frac{918}{5957}\sqrt{5}e^{12}, \frac{27}{5957}\sqrt{2866}e^{13}, \frac{27}{5957}\sqrt{2314}e^{25},$ $\frac{27}{5957}\sqrt{3686}e^{15} + \frac{324}{5957}\sqrt{29}e^{24}, \frac{108}{5957}\sqrt{101}e^{27}$	$(-\frac{135}{5957}, \frac{459}{5957}, -\frac{864}{5957}, \frac{270}{5957}, \frac{324}{5957}, -\frac{27}{5957}, \frac{783}{5957}, \frac{27}{5957}, \frac{54}{259})$ $+ \frac{108}{5957}\sqrt{349}e^2 \otimes e_4 + \frac{27}{5957}\sqrt{5462}e^1 \otimes e_3$	{14579, 34}
9531:15	$0, 0, 0, 0, \frac{6}{2801}\sqrt{69865}e^{12}, \frac{12}{2801}\sqrt{6942}e^{13}, \frac{12}{2801}\sqrt{1246}e^{25},$ $\frac{36}{2801}\sqrt{2670}e^{15} + \frac{6}{2801}\sqrt{71823}e^{24}, \frac{6}{2801}\sqrt{83749}e^{27}$	$(\frac{624}{2801}, -\frac{534}{2801}, \frac{129}{2801}, \frac{1248}{2801}, \frac{90}{2801}, \frac{753}{2801}, -\frac{444}{2801}, \frac{714}{2801}, -\frac{978}{2801})$ $+ \frac{12}{2801}\sqrt{52510}e^1 \otimes e_9$	{123478, 124678, 2345689, 24589}
9531:15	$0, 0, 0, 0, \frac{1}{49}\sqrt{130}e^{12}, \frac{1}{49}\sqrt{182}e^{13}, \frac{2}{49}\sqrt{91}e^{25},$ $\frac{2}{49}\sqrt{13}e^{15} + \frac{2}{49}\sqrt{65}e^{24}, \frac{6}{49}\sqrt{13}e^{27}$	$(-\frac{5}{49}, \frac{3}{49}, \frac{17}{49}, -\frac{10}{49}, -\frac{2}{49}, \frac{12}{49}, \frac{1}{49}, -\frac{1}{7}, \frac{4}{49})$ $+ \frac{1}{49}\sqrt{494}e^3 \otimes e_9 + \frac{5}{49}\sqrt{26}e^2 \otimes e_4$	{1237, 259}
9531:15	$0, 0, 0, 0, \frac{1}{157}\sqrt{17877}e^{12}, \frac{1}{157}\sqrt{10706}e^{13}, \frac{1}{157}\sqrt{1515}e^{25},$ $\frac{1}{157}\sqrt{17877}e^{15} + \frac{4}{157}\sqrt{606}e^{24}, \frac{1}{157}\sqrt{1515}e^{27}$	$(\frac{33}{157}, -\frac{15}{314}, -\frac{68}{157}, \frac{66}{157}, \frac{51}{314}, -\frac{35}{157}, \frac{18}{157}, \frac{117}{314}, \frac{21}{314})$ $+ \frac{1}{157}\sqrt{28078}e^1 \otimes e_3$	{1248, 1459, 2345789, 347}
9531:15	$0, 0, 0, 0, \frac{41}{2941}\sqrt{2026}e^{12}, \frac{41}{2941}\sqrt{1202}e^{13}, \frac{82}{2941}\sqrt{73}e^{25},$ $\frac{164}{2941}\sqrt{138}e^{15} + \frac{328}{2941}\sqrt{11}e^{24}, \frac{41}{2941}\sqrt{254}e^{27}$	$(\frac{41}{173}, -\frac{328}{2941}, -\frac{984}{2941}, \frac{82}{173}, \frac{369}{2941}, -\frac{287}{2941}, \frac{41}{2941}, \frac{1066}{2941}, -\frac{287}{2941})$ $+ \frac{123}{2941}\sqrt{422}e^1 \otimes e_3 + \frac{164}{2941}\sqrt{91}e^4 \otimes e_9$	{145, 234578}
9531:15	$0, 0, 0, 0, \frac{396}{6797}\sqrt{30}e^{12}, \frac{66}{6797}\sqrt{1793}e^{13}, \frac{132}{6797}e^{25},$ $\frac{33}{6797}\sqrt{3602}e^{15} + \frac{165}{6797}\sqrt{182}e^{24}, \frac{33}{6797}\sqrt{2138}e^{27}$	$(\frac{825}{6797}, -\frac{726}{6797}, -\frac{264}{6797}, \frac{1650}{6797}, \frac{99}{6797}, \frac{561}{6797}, -\frac{627}{6797}, \frac{132}{6797}, -\frac{1353}{6797})$ $+ \frac{132}{6797}\sqrt{359}e^3 \otimes e_9 + \frac{165}{6797}\sqrt{278}e^4 \otimes e_6$	{1679, 356}
9531:16	$0, 0, 0, 0, \frac{14}{309}\sqrt{23}e^{12}, \frac{7}{309}\sqrt{358}e^{13} + \frac{7}{309}\sqrt{346}e^{24}, \frac{14}{309}\sqrt{58}e^{15},$ $\frac{7}{103}\sqrt{30}e^{25} + \frac{70}{309}\sqrt{3}e^{34}, \frac{14}{309}\sqrt{89}e^{17}$	$(-\frac{35}{309}, \frac{14}{103}, \frac{21}{103}, -\frac{14}{309}, \frac{7}{309}, \frac{28}{309}, -\frac{28}{309}, \frac{49}{309}, -\frac{21}{103})$ $+ \frac{35}{309}\sqrt{22}e^4 \otimes e_9$	{1235689, 234}
9531:16	$0, 0, 0, 0, \frac{134}{5091}\sqrt{23}e^{12}, \frac{134}{5091}\sqrt{465}e^{13} + \frac{268}{5091}\sqrt{46}e^{24},$ $\frac{134}{5091}\sqrt{5}e^{15}, \frac{67}{5091}\sqrt{230}e^{25} + \frac{134}{1697}\sqrt{86}e^{34}, \frac{335}{5091}\sqrt{122}e^{17}$	$(-\frac{402}{1697}, \frac{1742}{5091}, \frac{871}{1697}, -\frac{335}{5091}, \frac{536}{5091}, \frac{469}{1697}, -\frac{670}{5091}, \frac{2278}{5091}, -\frac{1876}{5091})$ $+ \frac{134}{5091}\sqrt{2123}e^3 \otimes e_9$	{1245689, 2346}
9531:16	$0, 0, 0, 0, \frac{2622}{5237}e^{12}, \frac{57}{5237}\sqrt{2274}e^{13} + \frac{114}{5237}\sqrt{714}e^{24}, \frac{57}{5237}\sqrt{478}e^{15},$ $\frac{171}{5237}\sqrt{282}e^{25} + \frac{57}{5237}\sqrt{474}e^{34}, \frac{114}{5237}\sqrt{886}e^{17}$	$(-\frac{1083}{5237}, \frac{1482}{5237}, \frac{2223}{5237}, -\frac{342}{5237}, \frac{399}{5237}, \frac{1140}{5237}, -\frac{684}{5237}, \frac{1881}{5237}, -\frac{1767}{5237})$ $+ \frac{114}{5237}\sqrt{2194}e^2 \otimes e_9$	{1345689, 1589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:17	$0, 0, 0, 0, \frac{23}{337} \sqrt{66}e^{12}, \frac{1}{337} \sqrt{48070}e^{13}, \frac{7}{337} \sqrt{506}e^{15}, \frac{1}{337} \sqrt{48070}e^{16}, \frac{12}{337} \sqrt{253}e^{17}$	$(\frac{95}{337}, -\frac{158}{337}, -\frac{40}{337}, \frac{55}{337}, -\frac{63}{337}, \frac{55}{337}, \frac{32}{337}, \frac{150}{337}, \frac{127}{337}) + \frac{2}{337} \sqrt{35673}e^1 \otimes e_2$	{13478, 1378, 1467, 167, 2, 23468, 2368, 24}
9531:17	$0, 0, 0, 0, \frac{1}{59} \sqrt{1065}e^{12}, \frac{1}{59} \sqrt{1633}e^{13}, \frac{2}{59} \sqrt{355}e^{15}, \frac{2}{59} \sqrt{994}e^{16}, \frac{1}{59} \sqrt{1065}e^{17}$	$(-\frac{5}{59}, \frac{17}{59}, -\frac{2}{59}, 1, \frac{12}{59}, -\frac{7}{59}, \frac{7}{59}, -\frac{12}{59}, \frac{2}{59}) + \frac{3}{59} \sqrt{781}e^4 \otimes e_8$	{1235789, 1245679, 138, 146, 23678, 247, 35689, 459}
9531:17	$0, 0, 0, 0, \frac{2}{913} \sqrt{24366}e^{12}, \frac{6}{913} \sqrt{2170}e^{13}, \frac{12}{913} \sqrt{651}e^{15}, \frac{6}{913} \sqrt{2170}e^{16}, \frac{4}{913} \sqrt{12927}e^{17}$	$(\frac{105}{913}, -\frac{267}{913}, -\frac{10}{913}, \frac{420}{913}, -\frac{162}{913}, \frac{95}{913}, -\frac{57}{913}, \frac{200}{913}, \frac{48}{913}) + \frac{10}{913} \sqrt{2418}e^4 \otimes e_9 + \frac{2}{913} \sqrt{91698}e^1 \otimes e_2$	{13478, 1467, 23468, 24}
9531:17	$0, 0, 0, 0, \frac{66}{1279} \sqrt{69}e^{12}, \frac{11}{1279} \sqrt{1614}e^{13}, \frac{11}{1279} \sqrt{1974}e^{15}, \frac{11}{1279} \sqrt{690}e^{16}, \frac{11}{1279} \sqrt{1146}e^{17}$	$(\frac{53}{1279}, \frac{159}{1279}, -\frac{310}{1279}, \frac{127}{1279}, \frac{212}{1279}, -\frac{257}{1279}, \frac{265}{1279}, -\frac{204}{1279}, \frac{318}{1279}) + \frac{22}{1279} \sqrt{1059}e^1 \otimes e_3 + \frac{22}{1279} \sqrt{669}e^2 \otimes e_8$	{14589, 1589, 234579, 23579}
9531:17	$0, 0, 0, 0, \frac{7}{971} \sqrt{6330}e^{12}, \frac{1}{971} \sqrt{647770}e^{13}, \frac{1}{971} \sqrt{128710}e^{15}, \frac{1}{971} \sqrt{78070}e^{16}, \frac{2}{971} \sqrt{136095}e^{17}$	$(-\frac{233}{971}, \frac{308}{971}, \frac{664}{971}, \frac{161}{971}, \frac{75}{971}, \frac{431}{971}, -\frac{158}{971}, \frac{198}{971}, -\frac{391}{971}) + \frac{30}{971} \sqrt{211}e^3 \otimes e_9$	{1234578, 123578, 1469, 169, 2479, 279, 34568, 3568}
9531:17	$0, 0, 0, 0, \frac{4}{415} \sqrt{213}e^{12}, \frac{2}{415} \sqrt{6319}e^{13}, \frac{2}{415} \sqrt{3053}e^{15}, \frac{2}{415} \sqrt{2485}e^{16}, \frac{2}{415} \sqrt{6603}e^{17}$	$(-\frac{19}{415}, \frac{34}{415}, \frac{119}{415}, -\frac{161}{415}, \frac{3}{83}, \frac{20}{83}, -\frac{4}{415}, \frac{81}{415}, -\frac{23}{415}) + \frac{18}{415} \sqrt{142}e^3 \otimes e_9 + \frac{6}{415} \sqrt{1633}e^1 \otimes e_4$	{12378, 1569, 24579, 3468}
9531:17	$0, 0, 0, 0, \frac{4}{175} \sqrt{282}e^{12}, \frac{4}{175} \sqrt{358}e^{13}, \frac{8}{175} e^{15}, \frac{8}{175} \sqrt{133}e^{16}, \frac{12}{175} \sqrt{10}e^{17}$	$(\frac{23}{175}, -\frac{41}{175}, -\frac{4}{25}, \frac{82}{175}, -\frac{18}{175}, -\frac{1}{35}, \frac{1}{35}, \frac{18}{175}, \frac{4}{25}) + \frac{12}{175} \sqrt{58}e^4 \otimes e_8 + \frac{8}{175} \sqrt{186}e^1 \otimes e_2$	{1389, 1469, 236789, 2479}
9531:17	$0, 0, 0, 0, \frac{4}{175} \sqrt{282}e^{12}, \frac{8}{175} \sqrt{133}e^{13}, \frac{8}{175} e^{15}, \frac{4}{175} \sqrt{358}e^{16}, \frac{12}{175} \sqrt{10}e^{17}$	$(\frac{23}{175}, -\frac{41}{175}, \frac{31}{350}, -\frac{97}{350}, -\frac{18}{175}, \frac{11}{50}, \frac{35}{350}, \frac{123}{25}, \frac{4}{25}) + \frac{12}{175} \sqrt{58}e^3 \otimes e_4 + \frac{8}{175} \sqrt{186}e^1 \otimes e_2$	{1389, 1469, 236789, 2479}
9531:17	$0, 0, 0, 0, \frac{1}{88} \sqrt{2211}e^{12}, \frac{1}{88} \sqrt{1474}e^{13}, \frac{1}{44} \sqrt{737}e^{15}, \frac{1}{88} \sqrt{1474}e^{16}, \frac{1}{88} \sqrt{2211}e^{17}$	$(\frac{1}{8}, -\frac{1}{176}, \frac{5}{88}, -\frac{7}{11}, \frac{21}{176}, \frac{2}{11}, \frac{43}{176}, \frac{27}{88}, \frac{65}{176}) + \frac{3}{22} \sqrt{67}e^1 \otimes e_4$	{12378, 1267, 13589, 1569, 23456789, 24579, 3468, 4}
9531:17	$0, 0, 0, 0, \frac{1}{14} \sqrt{21}e^{12}, \frac{1}{8} \sqrt{10}e^{13}, \frac{1}{28} \sqrt{14}e^{15}, \frac{1}{28} \sqrt{70}e^{16}, \frac{3}{56} \sqrt{42}e^{17}$	$(\frac{5}{112}, -\frac{23}{112}, \frac{5}{28}, \frac{5}{56}, -\frac{9}{56}, \frac{25}{112}, -\frac{13}{112}, \frac{15}{56}, -\frac{1}{14}) + \frac{1}{56} \sqrt{798}e^1 \otimes e_2 + \frac{3}{56} \sqrt{70}e^3 \otimes e_9$	{13478, 1378, 23468, 2368}
9531:17	$0, 0, 0, 0, \frac{2}{415} \sqrt{6603}e^{12}, \frac{2}{415} \sqrt{2485}e^{13}, \frac{2}{415} \sqrt{3053}e^{15}, \frac{2}{415} \sqrt{6319}e^{16}, \frac{4}{415} \sqrt{213}e^{17}$	$(-\frac{19}{415}, \frac{23}{83}, \frac{11}{415}, -\frac{161}{415}, \frac{96}{415}, -\frac{8}{415}, \frac{77}{415}, -\frac{27}{415}, \frac{58}{415}) + \frac{18}{415} \sqrt{142}e^2 \otimes e_8 + \frac{6}{415} \sqrt{1633}e^1 \otimes e_4$	{1267, 13589, 24579, 3468}
9531:17	$0, 0, 0, 0, \frac{2}{321} \sqrt{397}e^{12}, \frac{1}{321} \sqrt{34142}e^{13}, \frac{1}{321} \sqrt{37318}e^{15}, \frac{1}{321} \sqrt{34142}e^{16}, \frac{1}{107} \sqrt{11910}e^{17}$	$(-\frac{43}{321}, \frac{53}{321}, \frac{98}{321}, 1, \frac{10}{321}, \frac{55}{321}, -\frac{11}{107}, \frac{4}{107}, -\frac{76}{321}) + \frac{2}{321} \sqrt{52801}e^4 \otimes e_9$	{1234678, 1247, 135689, 159, 235789, 25679, 348, 46}
9531:17	$0, 0, 0, 0, \frac{1}{59} \sqrt{1065}e^{12}, \frac{2}{59} \sqrt{994}e^{13}, \frac{2}{59} \sqrt{355}e^{15}, \frac{1}{59} \sqrt{1633}e^{16}, \frac{1}{59} \sqrt{1065}e^{17}$	$(-\frac{5}{59}, \frac{17}{59}, \frac{31}{59}, -\frac{40}{59}, \frac{12}{59}, \frac{26}{59}, \frac{7}{59}, \frac{21}{59}, \frac{2}{59}) + \frac{3}{59} \sqrt{781}e^3 \otimes e_4$	{1235789, 1245679, 138, 146, 23678, 247, 35689, 459}
9531:17	$0, 0, 0, 0, \frac{4}{53} \sqrt{15}e^{12}, \frac{12}{53} \sqrt{6}e^{13}, \frac{4}{53} \sqrt{30}e^{15}, \frac{4}{53} \sqrt{57}e^{16}, \frac{4}{53} \sqrt{35}e^{17}$	$(-\frac{10}{53}, \frac{1}{2}, \frac{29}{106}, -\frac{35}{106}, \frac{33}{106}, \frac{9}{106}, \frac{13}{106}, -\frac{11}{106}, -\frac{7}{106}) + \frac{40}{53} e^2 \otimes e_8 + \frac{4}{53} \sqrt{91}e^3 \otimes e_4$	{1246, 135789, 2459, 3678}
9531:17	$0, 0, 0, 0, \frac{3}{776} \sqrt{3005}e^{12}, \frac{9}{776} \sqrt{310}e^{13}, \frac{3}{776} \sqrt{2930}e^{15}, \frac{21}{776} \sqrt{30}e^{16}, \frac{3}{776} \sqrt{3005}e^{17}$	$(-\frac{15}{776}, \frac{159}{1552}, -\frac{15}{194}, \frac{57}{776}, \frac{129}{1552}, -\frac{75}{776}, \frac{99}{1552}, -\frac{45}{388}, \frac{69}{1552}) + \frac{3}{776} \sqrt{3230}e^2 \otimes e_9 + \frac{9}{388} \sqrt{110}e^1 \otimes e_3$	{1247, 127, 1459, 159}
9531:17	$0, 0, 0, 0, \frac{3}{232} \sqrt{959}e^{12}, \frac{21}{232} \sqrt{6}e^{13}, \frac{3}{116} \sqrt{203}e^{15}, \frac{21}{232} \sqrt{6}e^{16}, \frac{3}{232} \sqrt{959}e^{17}$	$(-\frac{21}{232}, \frac{111}{464}, \frac{45}{232}, -\frac{21}{58}, \frac{69}{464}, \frac{3}{29}, \frac{27}{464}, \frac{3}{232}, -\frac{15}{464}) + \frac{15}{116} \sqrt{14}e^2 \otimes e_9 + \frac{9}{116} \sqrt{42}e^1 \otimes e_4$	{123678, 127, 135689, 159}
9531:17	$0, 0, 0, 0, \frac{1}{251} \sqrt{25926}e^{12}, \frac{2}{251} \sqrt{6258}e^{13}, \frac{2}{251} \sqrt{8642}e^{15}, \frac{1}{251} \sqrt{3874}e^{16}, \frac{1}{251} \sqrt{25926}e^{17}$	$(\frac{58}{251}, -\frac{49}{251}, -\frac{91}{251}, \frac{38}{251}, \frac{9}{251}, -\frac{33}{251}, \frac{67}{251}, \frac{25}{251}, \frac{125}{251}) + \frac{1}{251} \sqrt{63474}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:17	$0, 0, 0, 0, \frac{4}{53}\sqrt{35}e^{12}, \frac{4}{53}\sqrt{57}e^{13}, \frac{4}{53}\sqrt{30}e^{15}, \frac{12}{53}\sqrt{6}e^{16}, \frac{4}{53}\sqrt{15}e^{17}$	$(-\frac{10}{53}, \frac{14}{53}, \frac{16}{53}, \frac{28}{53}, \frac{4}{53}, \frac{6}{53}, -\frac{6}{53}, -\frac{4}{53}, -\frac{16}{53}) + \frac{40}{53}e^3 \otimes e_9 + \frac{4}{53}\sqrt{91}e^4 \otimes e_8$	{123578, 1469, 2479, 3568}
9531:17	$0, 0, 0, 0, \frac{4}{61}\sqrt{15}e^{12}, \frac{4}{61}\sqrt{55}e^{13}, \frac{20}{61}e^{15}, \frac{4}{61}\sqrt{55}e^{16}, \frac{4}{61}\sqrt{15}e^{17}$	$(-\frac{16}{61}, \frac{31}{61}, \frac{23}{61}, \frac{7}{61}, \frac{15}{61}, \frac{7}{61}, -\frac{1}{61}, -\frac{9}{61}, -\frac{17}{61}) + \frac{12}{61}\sqrt{15}e^2 \otimes e_8 + \frac{12}{61}\sqrt{15}e^3 \otimes e_9$	{12469, 1269, 134578, 13578}
9531:17	$0, 0, 0, 0, \frac{3}{5}\sqrt{2}e^{12}, \frac{3}{10}\sqrt{6}e^{13}, \frac{3}{10}\sqrt{5}e^{15}, \frac{3}{10}\sqrt{6}e^{16}, \frac{3}{5}\sqrt{2}e^{17}$	$(-\frac{3}{10}, \frac{3}{5}, \frac{9}{20}, \frac{3}{20}, \frac{3}{10}, \frac{3}{20}, 0, -\frac{3}{20}, -\frac{3}{10}) + \frac{3}{10}\sqrt{17}e^2 \otimes e_9$	{1234678, 123678, 1247, 127, 1345689, 135689, 1459, 159}
9531:17	$0, 0, 0, 0, \frac{2}{971}\sqrt{136095}e^{12}, \frac{1}{971}\sqrt{78070}e^{13}, \frac{1}{971}\sqrt{128710}e^{15}, \frac{1}{971}\sqrt{647770}e^{16}, \frac{7}{971}\sqrt{6330}e^{17}$	$(-\frac{233}{971}, \frac{713}{971}, \frac{124}{971}, \frac{161}{971}, \frac{480}{971}, -\frac{109}{971}, \frac{247}{971}, -\frac{342}{971}, \frac{14}{971}) + \frac{90}{971}\sqrt{211}e^2 \otimes e_8$	{1246, 126, 1345789, 135789, 2459, 259, 34678, 3678}
9531:17	$0, 0, 0, 0, \frac{2}{279}\sqrt{2955}e^{12}, \frac{2}{279}\sqrt{2955}e^{13}, \frac{1}{279}\sqrt{2167}e^{15}, \frac{1}{279}\sqrt{5713}e^{16}, \frac{4}{279}\sqrt{985}e^{17}$	$(-\frac{59}{279}, \frac{77}{186}, \frac{271}{558}, -\frac{163}{558}, \frac{113}{558}, \frac{17}{62}, -\frac{5}{558}, \frac{35}{558}, -\frac{41}{186}) + \frac{1}{279}\sqrt{44719}e^2 \otimes e_4 + \frac{1}{279}\sqrt{52599}e^3 \otimes e_9$	{1237, 145689, 25789, 346}
9531:17	$0, 0, 0, 0, \frac{4}{279}\sqrt{985}e^{12}, \frac{1}{279}\sqrt{5713}e^{13}, \frac{1}{279}\sqrt{2167}e^{15}, \frac{2}{279}\sqrt{2955}e^{16}, \frac{2}{279}\sqrt{985}e^{17}$	$(-\frac{59}{279}, \frac{251}{558}, \frac{1}{6}, \frac{97}{186}, \frac{133}{558}, -\frac{25}{558}, \frac{5}{186}, -\frac{143}{558}, -\frac{103}{558}) + \frac{1}{279}\sqrt{44719}e^4 \otimes e_9 + \frac{1}{279}\sqrt{52599}e^2 \otimes e_8$	{123467, 1589, 23579, 468}
9531:17	$0, 0, 0, 0, \frac{1}{1413}\sqrt{247270}e^{12}, \frac{4}{1413}\sqrt{20145}e^{13}, \frac{4}{1413}\sqrt{24490}e^{15}, \frac{1}{1413}\sqrt{109810}e^{16}, \frac{4}{471}\sqrt{48190}e^{17}$	$(\frac{130}{1413}, -\frac{179}{1413}, -\frac{265}{1413}, \frac{202}{471}, -\frac{49}{1413}, -\frac{15}{157}, \frac{9}{157}, -\frac{5}{1413}, \frac{211}{1413}) + \frac{1}{1413}\sqrt{637530}e^1 \otimes e_3 + \frac{4}{1413}\sqrt{23305}e^4 \otimes e_9$	{1247, 159, 235789, 348}
9531:17	$0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{3}{61}\sqrt{66}e^{13}, \frac{12}{61}\sqrt{6}e^{15}, \frac{3}{61}\sqrt{42}e^{16}, \frac{18}{61}\sqrt{2}e^{17}$	$(\frac{8}{61}, -\frac{5}{61}, -\frac{19}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{11}{61}, \frac{11}{61}, -\frac{3}{61}, \frac{19}{61}) + \frac{3}{61}\sqrt{102}e^4 \otimes e_8 + \frac{3}{61}\sqrt{222}e^1 \otimes e_3$	{1278, 1589, 234579, 34}
9531:17	$0, 0, 0, 0, \frac{1}{107}\sqrt{11910}e^{12}, \frac{1}{321}\sqrt{34142}e^{13}, \frac{1}{321}\sqrt{37318}e^{15}, \frac{1}{321}\sqrt{34142}e^{16}, \frac{2}{321}\sqrt{397}e^{17}$	$(-\frac{43}{321}, \frac{62}{107}, \frac{98}{321}, -\frac{211}{321}, \frac{143}{321}, \frac{55}{321}, \frac{100}{321}, \frac{4}{107}, \frac{19}{107}) + \frac{2}{321}\sqrt{52801}e^2 \otimes e_4$	{123678, 127, 1345689, 1459, 235789, 25679, 348, 46}
9531:17	$0, 0, 0, 0, \frac{1}{471}\sqrt{48190}e^{12}, \frac{4}{1413}\sqrt{20145}e^{13}, \frac{4}{1413}\sqrt{24490}e^{15}, \frac{1}{1413}\sqrt{109810}e^{16}, \frac{4}{1413}\sqrt{247270}e^{17}$	$(\frac{130}{1413}, \frac{19}{471}, -\frac{265}{1413}, -\frac{338}{1413}, \frac{187}{1413}, -\frac{15}{157}, \frac{317}{1413}, -\frac{5}{1413}, \frac{149}{471}) + \frac{1}{1413}\sqrt{637530}e^1 \otimes e_3 + \frac{4}{1413}\sqrt{23305}e^2 \otimes e_4$	{127, 1459, 235789, 348}
9531:18	$0, 0, 0, 0, \frac{10}{273}\sqrt{327}e^{12}, \frac{2}{91}\sqrt{109}e^{13}, \frac{2}{273}\sqrt{9919}e^{25}, \frac{2}{91}\sqrt{109}e^{16}, \frac{2}{273}\sqrt{7194}e^{27}$	$(-\frac{3}{91}, \frac{41}{273}, \frac{19}{91}, -\frac{59}{91}, \frac{32}{273}, \frac{16}{91}, \frac{73}{7}, \frac{1}{91}, \frac{38}{91}) + \frac{10}{91}\sqrt{109}e^2 \otimes e_4$	{123678, 127, 13456789, 14579, 23589, 2569, 348, 46}
9531:18	$0, 0, 0, 0, \frac{4}{179}\sqrt{661}e^{12}, \frac{1}{537}\sqrt{268366}e^{13}, \frac{1}{537}\sqrt{46270}e^{25}, \frac{1}{537}\sqrt{77998}e^{16}, \frac{1}{537}\sqrt{77998}e^{27}$	$(-\frac{85}{537}, \frac{83}{537}, \frac{334}{537}, -\frac{109}{179}, -\frac{2}{537}, \frac{83}{179}, \frac{27}{179}, \frac{164}{537}, \frac{164}{537}) + \frac{4}{179}\sqrt{3966}e^3 \otimes e_4$	{123589, 124569, 138, 146, 23678, 247, 356789, 4579}
9531:18	$0, 0, 0, 0, \frac{5}{869}\sqrt{78}e^{12}, \frac{6}{869}\sqrt{115}e^{13}, \frac{2}{869}\sqrt{1230}e^{25}, \frac{2}{869}\sqrt{2010}e^{16}, \frac{2}{869}\sqrt{2010}e^{27}$	$(\frac{8}{869}, -\frac{5}{869}, -\frac{36}{869}, \frac{102}{869}, \frac{3}{869}, -\frac{28}{869}, -\frac{2}{869}, -\frac{20}{869}, -\frac{7}{869}) + \frac{1}{869}\sqrt{11310}e^1 \otimes e_9 + \frac{30}{869}\sqrt{13}e^2 \otimes e_8$	{12467, 1267, 2459, 259}
9531:18	$0, 0, 0, 0, \frac{4}{4707}\sqrt{81753}e^{12}, \frac{4}{4707}\sqrt{66045}e^{13}, \frac{56}{4707}\sqrt{595}e^{25}, \frac{8}{4707}\sqrt{39865}e^{16}, \frac{4}{4707}\sqrt{89369}e^{27}$	$(-\frac{230}{4707}, \frac{58}{523}, \frac{10}{1569}, -\frac{394}{1569}, \frac{292}{4707}, -\frac{200}{4707}, \frac{814}{4707}, -\frac{430}{4707}, \frac{1336}{4707}) + \frac{4}{4707}\sqrt{210273}e^1 \otimes e_4 + \frac{4}{4707}\sqrt{280245}e^2 \otimes e_8$	{1267, 135789, 2459, 3468}
9531:18	$0, 0, 0, 0, \frac{1}{11}\sqrt{74}e^{12}, \frac{1}{33}\sqrt{74}e^{13}, \frac{2}{33}\sqrt{37}e^{25}, \frac{4}{33}\sqrt{37}e^{16}, \frac{1}{33}\sqrt{74}e^{27}$	$(\frac{17}{33}, -\frac{4}{33}, -\frac{20}{33}, \frac{2}{11}, \frac{13}{33}, -\frac{1}{11}, \frac{3}{11}, \frac{14}{33}, \frac{5}{33}) + \frac{1}{11}\sqrt{222}e^1 \otimes e_3$	{124789, 12789, 14578, 1578, 2345, 235, 349, 39}
9531:18	$0, 0, 0, 0, \frac{2}{495}\sqrt{5865}e^{12}, \frac{1}{99}\sqrt{138}e^{13}, \frac{1}{495}\sqrt{24610}e^{25}, \frac{1}{495}\sqrt{30130}e^{16}, \frac{1}{495}\sqrt{16790}e^{27}$	$(\frac{13}{495}, \frac{13}{165}, -\frac{34}{165}, \frac{19}{165}, \frac{52}{495}, -\frac{89}{495}, \frac{91}{495}, -\frac{76}{495}, \frac{26}{99}) + \frac{2}{495}\sqrt{10005}e^1 \otimes e_3 + \frac{4}{495}\sqrt{3795}e^2 \otimes e_8$	{145789, 15789, 23459, 2359}
9531:18	$0, 0, 0, 0, \frac{4}{179}\sqrt{661}e^{12}, \frac{1}{537}\sqrt{77998}e^{13}, \frac{1}{537}\sqrt{46270}e^{25}, \frac{1}{537}\sqrt{77998}e^{16}, \frac{1}{537}\sqrt{268366}e^{27}$	$(\frac{59}{537}, -\frac{61}{537}, \frac{46}{537}, 1, -\frac{2}{537}, \frac{35}{179}, -\frac{21}{179}, \frac{164}{537}, -\frac{124}{537}) + \frac{4}{179}\sqrt{3966}e^4 \otimes e_9$	{123589, 12569, 1348, 146, 234678, 247, 356789, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:18	$0, 0, 0, 0, \frac{4}{283}\sqrt{461}e^{12}, \frac{1}{849}\sqrt{6454}e^{13}, \frac{1}{849}\sqrt{28582}e^{25}, \frac{1}{849}\sqrt{238798}e^{16},$ $\frac{1}{849}\sqrt{6454}e^{27}$	$(\frac{151}{849}, -\frac{17}{849}, -\frac{310}{849}, \frac{151}{283}, \frac{134}{849}, -\frac{53}{283}, \frac{39}{283}, -\frac{8}{849}, \frac{100}{849})$ $+\frac{2}{283}\sqrt{10142}e^1 \otimes e_3 + \frac{4}{283}\sqrt{2305}e^4 \otimes e_8$	{12467, 145679, 235689, 368}
9531:18	$0, 0, 0, 0, \frac{2}{3933}\sqrt{92235}e^{12}, \frac{4}{3933}\sqrt{87978}e^{13}, \frac{40}{3933}\sqrt{946}e^{25},$ $\frac{2}{3933}\sqrt{409145}e^{16}, \frac{344}{3933}\sqrt{22}e^{27}$	$(-\frac{910}{3933}, \frac{419}{3933}, \frac{431}{1311}, \frac{56}{437}, -\frac{491}{3933}, \frac{383}{3933}, -\frac{8}{437}, -\frac{527}{3933}, \frac{347}{3933})$ $+\frac{2}{3933}\sqrt{725109}e^3 \otimes e_9 + \frac{4}{3933}\sqrt{224202}e^2 \otimes e_8$	{124569, 12569, 1348, 138}
9531:18	$0, 0, 0, 0, \frac{4}{179}\sqrt{661}e^{12}, \frac{1}{537}\sqrt{77998}e^{13}, \frac{1}{537}\sqrt{46270}e^{25},$ $\frac{1}{537}\sqrt{268366}e^{16}, \frac{1}{537}\sqrt{77998}e^{27}$	$(-\frac{85}{537}, \frac{83}{537}, \frac{46}{537}, 1, -\frac{2}{537}, -\frac{13}{179}, \frac{27}{179}, -\frac{124}{537}, \frac{164}{537})$ $+\frac{4}{179}\sqrt{3966}e^4 \otimes e_8$	{123589, 124569, 138, 146, 23678, 247, 356789, 4579}
9531:18	$0, 0, 0, 0, \frac{1}{418}\sqrt{5934}e^{12}, \frac{1}{418}\sqrt{26058}e^{13}, \frac{1}{418}\sqrt{4515}e^{25}, \frac{21}{418}\sqrt{86}e^{16},$ $\frac{1}{418}\sqrt{26058}e^{27}$	$(\frac{5}{38}, -\frac{43}{418}, -\frac{97}{836}, \frac{381}{836}, \frac{6}{209}, \frac{13}{836}, -\frac{31}{418}, \frac{123}{836}, -\frac{37}{209})$ $+\frac{1}{418}\sqrt{58695}e^1 \otimes e_9 + \frac{3}{209}\sqrt{989}e^4 \otimes e_8$	{138, 146, 356789, 4579}
9531:18	$0, 0, 0, 0, \frac{4}{279}\sqrt{1155}e^{12}, \frac{4}{279}\sqrt{238}e^{13}, \frac{4}{279}\sqrt{805}e^{25}, \frac{4}{279}\sqrt{259}e^{16},$ $\frac{4}{279}\sqrt{105}e^{27}$	$(\frac{6}{31}, \frac{5}{558}, -\frac{58}{279}, -\frac{73}{186}, \frac{113}{558}, -\frac{4}{279}, \frac{59}{279}, \frac{50}{279}, \frac{41}{186})$ $+\frac{4}{279}\sqrt{1491}e^1 \otimes e_3 + \frac{4}{279}\sqrt{1974}e^2 \otimes e_4$	{1278, 145789, 2359, 34}
9531:18	$0, 0, 0, 0, \frac{1}{635}\sqrt{17754}e^{12}, \frac{1}{635}\sqrt{41426}e^{13}, \frac{2}{635}\sqrt{20713}e^{25},$ $\frac{1}{635}\sqrt{76934}e^{16}, \frac{1}{635}\sqrt{76934}e^{27}$	$(-\frac{162}{635}, \frac{132}{635}, \frac{187}{635}, -\frac{82}{635}, -\frac{6}{127}, \frac{5}{127}, \frac{102}{635}, -\frac{137}{635}, \frac{234}{635})$ $+\frac{1}{635}\sqrt{199598}e^2 \otimes e_8 + \frac{1}{635}\sqrt{93074}e^3 \otimes e_4$	{12467, 135789, 2459, 368}
9531:18	$0, 0, 0, 0, \frac{8}{2385}\sqrt{2229}e^{12}, \frac{1}{2385}\sqrt{102534}e^{13}, \frac{8}{2385}\sqrt{12631}e^{25},$ $\frac{32}{2385}\sqrt{743}e^{16}, \frac{1}{2385}\sqrt{1133818}e^{27}$	$(-\frac{374}{2385}, \frac{229}{2385}, \frac{26}{265}, \frac{352}{795}, -\frac{29}{477}, -\frac{28}{477}, \frac{28}{795}, -\frac{514}{2385}, \frac{313}{2385})$ $+\frac{1}{2385}\sqrt{1118958}e^4 \otimes e_9 + \frac{1}{2385}\sqrt{1974894}e^2 \otimes e_8$	{12467, 135789, 259, 3468}
9531:18	$0, 0, 0, 0, \frac{1}{175}\sqrt{3530}e^{12}, \frac{1}{525}\sqrt{4942}e^{13}, \frac{2}{525}\sqrt{3883}e^{25}, \frac{4}{525}\sqrt{3883}e^{16},$ $\frac{1}{525}\sqrt{55774}e^{27}$	$(\frac{169}{525}, -\frac{16}{105}, -\frac{184}{525}, \frac{94}{175}, \frac{89}{175}, -\frac{1}{35}, \frac{3}{22}, \frac{75}{75}, -\frac{71}{525})$ $+\frac{3}{175}\sqrt{2118}e^1 \otimes e_3 + \frac{4}{175}\sqrt{1059}e^4 \otimes e_9$	{12467, 15679, 235689, 3468}
9531:18	$0, 0, 0, 0, \frac{10}{4353}\sqrt{11235}e^{12}, \frac{4}{4353}\sqrt{295106}e^{13}, \frac{8}{4353}\sqrt{8239}e^{25},$ $\frac{2}{4353}\sqrt{674849}e^{16}, \frac{8}{4353}\sqrt{45689}e^{27}$	$(\frac{226}{4353}, -\frac{83}{1451}, \frac{977}{4353}, -\frac{424}{1451}, -\frac{23}{4353}, \frac{401}{1451}, -\frac{272}{4353}, \frac{1429}{4353}, -\frac{521}{4353})$ $+\frac{20}{1451}\sqrt{1498}e^1 \otimes e_4 + \frac{30}{1451}\sqrt{749}e^3 \otimes e_9$	{12569, 138, 234678, 4579}
9531:18	$0, 0, 0, 0, \frac{1}{111}\sqrt{3030}e^{12}, \frac{8}{111}\sqrt{101}e^{13}, \frac{1}{111}\sqrt{1414}e^{25}, \frac{8}{111}\sqrt{101}e^{16},$ $\frac{2}{111}\sqrt{101}e^{27}$	$(\frac{32}{111}, -\frac{1}{37}, -\frac{11}{111}, -\frac{23}{37}, \frac{29}{111}, \frac{7}{37}, \frac{26}{111}, \frac{53}{111}, \frac{23}{111})$ $+\frac{2}{37}\sqrt{505}e^1 \otimes e_4$	{12378, 1267, 135789, 15679, 2345689, 2459, 3468, 4}
9531:18	$0, 0, 0, 0, \frac{2}{573}\sqrt{13143}e^{12}, \frac{1}{191}\sqrt{674}e^{13}, \frac{1}{573}\sqrt{128734}e^{25},$ $\frac{1}{573}\sqrt{111210}e^{16}, \frac{1}{573}\sqrt{111210}e^{27}$	$(-\frac{49}{191}, \frac{139}{573}, \frac{32}{191}, \frac{35}{191}, -\frac{8}{573}, -\frac{17}{191}, \frac{131}{573}, -\frac{66}{191}, \frac{90}{191})$ $+\frac{2}{191}\sqrt{8762}e^2 \otimes e_8$	{12467, 1267, 1345789, 135789, 2459, 259, 3468, 368}
9531:18	$0, 0, 0, 0, \frac{10}{273}\sqrt{327}e^{12}, \frac{4}{273}\sqrt{3161}e^{13}, \frac{8}{273}\sqrt{109}e^{25}, \frac{2}{273}\sqrt{4469}e^{16},$ $\frac{4}{273}\sqrt{3161}e^{27}$	$(-\frac{34}{273}, -\frac{3}{91}, \frac{157}{273}, \frac{16}{91}, -\frac{43}{41}, \frac{273}{91}, -\frac{4}{21}, \frac{89}{273}, -\frac{61}{273})$ $+\frac{10}{91}\sqrt{109}e^3 \otimes e_9$	{124569, 12569, 1348, 138, 234678, 23678, 4579, 579}
9531:18	$0, 0, 0, 0, \frac{8}{1477}\sqrt{7439}e^{12}, \frac{4}{1477}\sqrt{37410}e^{13}, \frac{8}{1477}\sqrt{1290}e^{25},$ $\frac{8}{1477}\sqrt{7482}e^{16}, \frac{4}{1477}\sqrt{37410}e^{27}$	$(-\frac{257}{1477}, \frac{31}{1477}, \frac{524}{1477}, \frac{698}{1477}, -\frac{226}{1477}, \frac{267}{1477}, -\frac{195}{1477}, \frac{10}{1477}, -\frac{164}{1477})$ $+\frac{4}{1477}\sqrt{66994}e^3 \otimes e_9 + \frac{8}{1477}\sqrt{11137}e^4 \otimes e_8$	{124569, 138, 23678, 4579}
9531:18	$0, 0, 0, 0, \frac{1}{418}\sqrt{5934}e^{12}, \frac{21}{418}\sqrt{86}e^{13}, \frac{1}{418}\sqrt{4515}e^{25}, \frac{1}{418}\sqrt{26058}e^{16},$ $\frac{1}{418}\sqrt{26058}e^{27}$	$(\frac{5}{38}, -\frac{43}{418}, \frac{87}{836}, -\frac{9}{44}, \frac{6}{209}, \frac{197}{836}, -\frac{31}{418}, \frac{307}{836}, -\frac{37}{209})$ $+\frac{1}{418}\sqrt{58695}e^1 \otimes e_9 + \frac{3}{209}\sqrt{989}e^3 \otimes e_4$	{138, 146, 356789, 4579}
9531:18	$0, 0, 0, 0, \frac{42}{725}\sqrt{17}e^{12}, \frac{3}{725}\sqrt{3774}e^{13}, \frac{48}{725}\sqrt{17}e^{25}, \frac{3}{725}\sqrt{3774}e^{16},$ $\frac{3}{725}\sqrt{7106}e^{27}$	$(\frac{111}{725}, -\frac{51}{725}, -\frac{21}{725}, -\frac{204}{725}, \frac{12}{145}, \frac{18}{145}, \frac{9}{725}, \frac{201}{725}, -\frac{42}{725})$ $+\frac{3}{725}\sqrt{11594}e^1 \otimes e_9 + \frac{42}{725}\sqrt{51}e^2 \otimes e_4$	{12378, 1267, 235689, 259}
9531:19	$0, 0, 0, 0, \frac{12}{689}\sqrt{1265}e^{12}, \frac{8}{689}\sqrt{1265}e^{13}, \frac{20}{689}\sqrt{506}e^{15}, \frac{6}{689}\sqrt{253}e^{25},$ $\frac{12}{689}\sqrt{1265}e^{17} + \frac{2}{689}\sqrt{28083}e^{23}$	$(\frac{49}{689}, \frac{38}{689}, \frac{147}{689}, -\frac{457}{689}, \frac{87}{689}, \frac{196}{689}, \frac{136}{689}, \frac{125}{689}, \frac{185}{689})$ $+\frac{2}{689}\sqrt{144969}e^1 \otimes e_4$	{12678, 15689, 2345679, 346}
9531:19	$0, 0, 0, 0, \frac{3}{635}\sqrt{4674}e^{12}, \frac{1}{635}\sqrt{440914}e^{13}, \frac{1}{635}\sqrt{138662}e^{15},$ $\frac{4}{635}\sqrt{8569}e^{25}, \frac{3}{635}\sqrt{4674}e^{17} + \frac{1}{635}\sqrt{110618}e^{23}$	$(-\frac{36}{635}, \frac{114}{635}, -\frac{108}{635}, 1, \frac{78}{635}, -\frac{144}{635}, \frac{42}{635}, \frac{192}{635}, \frac{6}{635})$ $+\frac{3}{635}\sqrt{91922}e^4 \otimes e_6$	{1234579, 134, 2478, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:19	$0, 0, 0, 0, \frac{92}{2217}\sqrt{62}e^{12}, \frac{46}{2217}\sqrt{329}e^{13}, \frac{138}{739}\sqrt{2}e^{15}, \frac{92}{2217}\sqrt{103}e^{25},$ $\frac{46}{2217}e^{17} + \frac{46}{2217}\sqrt{409}e^{23}$	$(-\frac{161}{2217}, \frac{138}{739}, -\frac{161}{739}, \frac{989}{2217}, \frac{253}{2217}, -\frac{644}{2217}, \frac{92}{2217}, \frac{667}{2217}, -\frac{23}{739})$ $+ \frac{46}{2217}\sqrt{734}e^4 \otimes e_9 + \frac{92}{2217}\sqrt{307}e^2 \otimes e_6$	{145678, 3679}
9531:19	$0, 0, 0, 0, \frac{2}{211}\sqrt{2886}e^{12}, \frac{4}{211}\sqrt{1887}e^{13}, \frac{6}{211}\sqrt{111}e^{15}, \frac{6}{211}\sqrt{111}e^{25},$ $\frac{2}{211}\sqrt{2886}e^{17} + \frac{4}{211}\sqrt{1887}e^{23}$	$(\frac{25}{211}, -\frac{1}{211}, \frac{75}{211}, -\frac{147}{211}, \frac{24}{211}, \frac{100}{211}, \frac{49}{211}, \frac{23}{211}, \frac{74}{211})$ $+ \frac{2}{211}\sqrt{19869}e^3 \otimes e_4$	{12456789, 1468, 2367, 3569}
9531:19	$0, 0, 0, 0, \frac{3}{61}\sqrt{42}e^{12}, \frac{3}{61}\sqrt{66}e^{13}, \frac{12}{61}\sqrt{3}e^{15}, \frac{30}{61}e^{25},$ $\frac{3}{61}\sqrt{26}e^{17} + \frac{6}{61}\sqrt{2}e^{23}$	$(-\frac{3}{61}, \frac{6}{61}, -\frac{9}{61}, \frac{27}{61}, \frac{3}{61}, -\frac{12}{61}, 0, \frac{9}{61}, -\frac{3}{61})$ $+ \frac{3}{61}\sqrt{86}e^4 \otimes e_8 + \frac{6}{61}\sqrt{34}e^2 \otimes e_6$	{156789, 3467}
9531:19	$0, 0, 0, 0, \frac{2}{2681}\sqrt{1034583}e^{12}, \frac{22}{2681}\sqrt{2247}e^{13}, \frac{6}{2681}\sqrt{2354}e^{15},$ $\frac{4}{2681}\sqrt{214214}e^{25}, \frac{8}{2681}\sqrt{17655}e^{17} + \frac{2}{2681}\sqrt{606155}e^{23}$	$(\frac{53}{2681}, \frac{559}{2681}, \frac{159}{2681}, -\frac{1795}{2681}, \frac{612}{2681}, \frac{212}{2681}, \frac{95}{383}, \frac{1171}{2681}, \frac{718}{2681})$ $+ \frac{2}{2681}\sqrt{2634126}e^2 \otimes e_4$	{12368, 13456789, 2569, 467}
9531:19	$0, 0, 0, 0, \frac{10}{177}\sqrt{46}e^{12}, \frac{5}{177}\sqrt{174}e^{13}, \frac{10}{177}\sqrt{5}e^{15}, \frac{5}{177}\sqrt{142}e^{25},$ $\frac{5}{59}\sqrt{2}e^{17} + \frac{10}{59}e^{23}$	$(-\frac{5}{177}, \frac{10}{59}, -\frac{5}{59}, -\frac{55}{177}, \frac{25}{177}, -\frac{20}{177}, \frac{20}{177}, \frac{55}{177}, \frac{5}{59})$ $+ \frac{10}{177}\sqrt{83}e^2 \otimes e_6 + \frac{5}{177}\sqrt{298}e^1 \otimes e_4$	{15689, 346}
9531:19	$0, 0, 0, 0, \frac{21}{1829}\sqrt{307}e^{12}, \frac{21}{1829}\sqrt{1309}e^{13}, \frac{21}{1829}\sqrt{577}e^{15},$ $\frac{21}{1829}\sqrt{715}e^{25}, \frac{21}{1829}\sqrt{662}e^{17} + \frac{21}{1829}\sqrt{663}e^{23}$	$(-\frac{42}{1829}, \frac{273}{1829}, \frac{126}{1829}, -\frac{567}{1829}, \frac{231}{1829}, -\frac{168}{1829}, \frac{189}{1829}, \frac{504}{1829}, \frac{147}{1829})$ $+ \frac{21}{1829}\sqrt{1427}e^3 \otimes e_4 + \frac{21}{1829}\sqrt{1938}e^2 \otimes e_6$	{1238, 2459}
9531:19	$0, 0, 0, 0, \frac{100}{2697}\sqrt{86}e^{12}, \frac{50}{2697}\sqrt{433}e^{13}, \frac{50}{2697}\sqrt{182}e^{15},$ $\frac{100}{2697}\sqrt{95}e^{25}, \frac{50}{2697}\sqrt{185}e^{17} + \frac{50}{2697}\sqrt{681}e^{23}$	$(\frac{175}{2697}, -\frac{150}{899}, \frac{175}{899}, \frac{1325}{2697}, -\frac{275}{2697}, \frac{700}{2697}, -\frac{100}{2697}, -\frac{25}{93}, \frac{25}{899})$ $+ \frac{1150}{2697}\sqrt{2}e^4 \otimes e_9 - \frac{700}{2697}\sqrt{7}e^3 \otimes e_8$	{123457, 139, 2789, 458}
9531:19	$0, 0, 0, 0, \frac{100}{2697}\sqrt{86}e^{12}, \frac{50}{2697}\sqrt{433}e^{13}, \frac{50}{2697}\sqrt{182}e^{15},$ $\frac{100}{2697}\sqrt{95}e^{25}, \frac{50}{2697}\sqrt{185}e^{17} + \frac{50}{2697}\sqrt{681}e^{23}$	$(\frac{175}{2697}, -\frac{150}{899}, \frac{175}{899}, \frac{1325}{2697}, -\frac{275}{2697}, \frac{700}{2697}, -\frac{100}{2697}, -\frac{25}{93}, \frac{25}{899})$ $+ \frac{1150}{2697}\sqrt{2}e^4 \otimes e_9 + \frac{700}{2697}\sqrt{7}e^3 \otimes e_8$	{123457, 139, 2789, 458}
9531:19	$0, 0, 0, 0, \frac{15}{41}e^{12}, \frac{5}{41}\sqrt{19}e^{13}, \frac{10}{41}\sqrt{5}e^{15}, \frac{5}{41}\sqrt{70}e^{25},$ $\frac{15}{41}e^{17} + \frac{5}{41}\sqrt{26}e^{23}$	$(\frac{3}{41}, -\frac{6}{41}, \frac{9}{41}, 1, -\frac{3}{41}, \frac{12}{41}, 0, -\frac{9}{41}, \frac{3}{41})$ $+ \frac{15}{41}\sqrt{15}e^4 \otimes e_8$	{12389, 13578, 245, 479}
9531:19	$0, 0, 0, 0, \frac{4}{51}\sqrt{11}e^{12}, \frac{2}{51}\sqrt{154}e^{13}, \frac{2}{51}\sqrt{22}e^{15}, \frac{2}{17}\sqrt{11}e^{25},$ $\frac{4}{51}\sqrt{11}e^{17} + \frac{2}{51}\sqrt{11}e^{23}$	$(\frac{5}{51}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{3}, -\frac{1}{51}, \frac{20}{51}, \frac{4}{51}, -\frac{7}{51}, \frac{3}{17})$ $- \frac{22}{51}\sqrt{2}e^3 \otimes e_8 + \frac{2}{51}\sqrt{253}e^1 \otimes e_4$	{12678, 15689, 2345679, 346}
9531:19	$0, 0, 0, 0, \frac{4}{51}\sqrt{11}e^{12}, \frac{2}{51}\sqrt{154}e^{13}, \frac{2}{51}\sqrt{22}e^{15}, \frac{2}{17}\sqrt{11}e^{25},$ $\frac{4}{51}\sqrt{11}e^{17} + \frac{2}{51}\sqrt{11}e^{23}$	$(\frac{5}{51}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{3}, -\frac{1}{51}, \frac{20}{51}, \frac{4}{51}, -\frac{7}{51}, \frac{3}{17})$ $+ \frac{22}{51}\sqrt{2}e^3 \otimes e_8 + \frac{2}{51}\sqrt{253}e^1 \otimes e_4$	{12678, 15689, 2345679, 346}
9531:19	$0, 0, 0, 0, \frac{24}{2585}\sqrt{2594}e^{12}, \frac{2}{2585}\sqrt{636827}e^{13}, \frac{2}{2585}\sqrt{526582}e^{15},$ $\frac{16}{2585}\sqrt{6485}e^{25}, \frac{6}{2585}\sqrt{115433}e^{17} + \frac{62}{2585}\sqrt{1297}e^{23}$	$(-\frac{21}{2585}, \frac{54}{2585}, -\frac{63}{2585}, 1, \frac{3}{235}, -\frac{84}{2585}, \frac{12}{2585}, \frac{87}{2585}, -\frac{9}{2585})$ $+ \frac{6}{235}\sqrt{2594}e^4 \otimes e_9$	{12589, 1478, 234, 3579}
9531:19	$0, 0, 0, 0, \frac{8}{2657}\sqrt{36834}e^{12}, \frac{6}{2657}\sqrt{90331}e^{13}, \frac{2}{2657}\sqrt{447270}e^{15},$ $\frac{2}{2657}\sqrt{875246}e^{25}, \frac{6}{2657}\sqrt{44727}e^{17} + \frac{2}{2657}\sqrt{151721}e^{23}$	$(-\frac{235}{2657}, \frac{814}{2657}, -\frac{705}{2657}, \frac{395}{2657}, \frac{579}{2657}, -\frac{940}{2657}, \frac{344}{2657}, \frac{1393}{2657}, \frac{109}{2657})$ $+ \frac{2}{2657}\sqrt{1983774}e^2 \otimes e_6$	{12348, 1238, 2459, 259}
9531:20	$0, 0, 0, 0, \frac{3}{338}\sqrt{1385}e^{12}, \frac{1}{169}\sqrt{21606}e^{13}, \frac{1}{338}\sqrt{47090}e^{15}, \frac{7}{338}\sqrt{1662}e^{25},$ $\frac{3}{338}\sqrt{1385}e^{17} + \frac{1}{169}\sqrt{277}e^{24}$	$(\frac{11}{169}, -\frac{9}{52}, \frac{7}{13}, \frac{33}{169}, -\frac{73}{676}, \frac{102}{169}, -\frac{29}{676}, -\frac{95}{338}, \frac{15}{676})$ $+ \frac{1}{169}\sqrt{40165}e^3 \otimes e_8$	{1234579, 134, 278, 589}
9531:20	$0, 0, 0, 0, \frac{4}{551}\sqrt{7685}e^{12}, \frac{4}{551}\sqrt{11289}e^{13}, \frac{4}{551}\sqrt{1749}e^{15}, \frac{4}{551}\sqrt{1749}e^{25},$ $\frac{12}{551}\sqrt{530}e^{17} + \frac{4}{551}\sqrt{11289}e^{24}$	$(-\frac{44}{551}, \frac{46}{551}, \frac{338}{551}, -\frac{132}{551}, \frac{2}{551}, \frac{294}{551}, -\frac{42}{551}, \frac{48}{551}, -\frac{86}{551})$ $+ \frac{4}{551}\sqrt{24910}e^3 \otimes e_9$	{1234578, 14689, 279, 356}
9531:20	$0, 0, 0, 0, \frac{18}{4225}\sqrt{31}e^{12}, \frac{6}{845}\sqrt{78}e^{13}, \frac{24}{4225}\sqrt{69}e^{15}, \frac{6}{4225}\sqrt{1630}e^{25},$ $\frac{24}{845}\sqrt{2}e^{17} + \frac{6}{4225}\sqrt{439}e^{24}$	$(-\frac{57}{4225}, \frac{6}{325}, \frac{9}{325}, -\frac{171}{4225}, \frac{21}{4225}, \frac{12}{845}, -\frac{36}{4225}, \frac{99}{4225}, -\frac{93}{4225})$ $+ \frac{6}{4225}\sqrt{1799}e^3 \otimes e_8 + \frac{6}{4225}\sqrt{2158}e^2 \otimes e_6$	{1456789, 367}
9531:20	$0, 0, 0, 0, \frac{4}{2811}\sqrt{105185}e^{12}, \frac{4}{2811}\sqrt{223687}e^{13}, \frac{4}{2811}\sqrt{106343}e^{15},$ $\frac{4}{2811}\sqrt{172735}e^{25}, \frac{8}{2811}\sqrt{31845}e^{17} + \frac{4}{2811}\sqrt{130661}e^{24}$	$(-\frac{92}{2811}, \frac{694}{2811}, -\frac{758}{2811}, -\frac{92}{937}, \frac{602}{2811}, -\frac{850}{2811}, \frac{170}{937}, \frac{432}{937}, \frac{418}{2811})$ $+ \frac{4}{2811}\sqrt{465130}e^2 \otimes e_6$	{12348, 1456789, 259, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:20	$0, 0, 0, 0, \frac{10}{173}\sqrt{2}e^{12}, \frac{4}{173}\sqrt{21}e^{13}, \frac{2}{173}\sqrt{19}e^{15}, \frac{2}{173}\sqrt{19}e^{25},$ $\frac{2}{173}\sqrt{10}e^{17} + \frac{4}{173}\sqrt{21}e^{24}$	$(\frac{3}{173}, -\frac{7}{173}, \frac{4}{173}, \frac{9}{173}, -\frac{4}{173}, \frac{7}{173}, -\frac{1}{173}, -\frac{11}{173}, \frac{2}{173})$ $+ \frac{2}{173}\sqrt{85}e^4 \otimes e_6 + \frac{8}{173}\sqrt{5}e^3 \otimes e_9$	{1256789, 459}
9531:20	$0, 0, 0, 0, \frac{19}{1684}\sqrt{595}e^{12}, \frac{57}{1684}\sqrt{194}e^{13}, \frac{19}{842}\sqrt{170}e^{15}, \frac{76}{421}\sqrt{2}e^{25},$ $\frac{19}{1684}\sqrt{595}e^{17} + \frac{19}{842}\sqrt{213}e^{24}$	$(\frac{171}{1684}, -\frac{551}{3368}, -\frac{19}{1684}, \frac{513}{1684}, -\frac{209}{3368}, \frac{38}{421}, \frac{133}{3368}, -\frac{95}{421}, \frac{475}{3368})$ $+ \frac{19}{1684}\sqrt{1490}e^3 \otimes e_8 + \frac{19}{842}\sqrt{415}e^4 \otimes e_6$	{2478, 4589}
9531:20	$0, 0, 0, 0, \frac{2}{131}\sqrt{1410}e^{12}, \frac{4}{131}\sqrt{799}e^{13}, \frac{2}{131}\sqrt{611}e^{15}, \frac{2}{131}\sqrt{611}e^{25},$ $\frac{2}{131}\sqrt{1410}e^{17} + \frac{4}{131}\sqrt{799}e^{24}$	$(\frac{21}{131}, -\frac{9}{131}, -\frac{52}{131}, \frac{63}{131}, \frac{12}{131}, -\frac{31}{131}, \frac{33}{131}, \frac{3}{131}, \frac{54}{131})$ $+ \frac{2}{131}\sqrt{5405}e^4 \otimes e_6$	{1256789, 168, 247, 459}
9531:20	$0, 0, 0, 0, \frac{13}{977}\sqrt{790}e^{12}, \frac{39}{977}\sqrt{122}e^{13}, \frac{52}{977}\sqrt{21}e^{15}, \frac{26}{977}\sqrt{67}e^{25},$ $\frac{13}{977}\sqrt{230}e^{17} + \frac{130}{977}\sqrt{14}e^{24}$	$(\frac{39}{977}, -\frac{130}{977}, \frac{325}{977}, \frac{117}{977}, -\frac{91}{977}, \frac{364}{977}, -\frac{52}{977}, -\frac{221}{977}, -\frac{13}{977})$ $+ \frac{13}{977}\sqrt{1510}e^4 \otimes e_8 + \frac{26}{977}\sqrt{510}e^3 \otimes e_9$	{123457, 1469, 2789, 3568}
9531:20	$0, 0, 0, 0, \frac{13}{977}\sqrt{790}e^{12}, \frac{39}{977}\sqrt{122}e^{13}, \frac{52}{977}\sqrt{21}e^{15}, \frac{26}{977}\sqrt{67}e^{25},$ $\frac{13}{977}\sqrt{230}e^{17} + \frac{130}{977}\sqrt{14}e^{24}$	$(\frac{39}{977}, -\frac{130}{977}, \frac{325}{977}, \frac{117}{977}, -\frac{91}{977}, \frac{364}{977}, -\frac{52}{977}, -\frac{221}{977}, -\frac{13}{977})$ $- \frac{13}{977}\sqrt{1510}e^4 \otimes e_8 + \frac{26}{977}\sqrt{510}e^3 \otimes e_9$	{123457, 1469, 2789, 3568}
9531:20	$0, 0, 0, 0, \frac{10}{113}\sqrt{35}e^{12}, \frac{10}{113}\sqrt{33}e^{13}, \frac{10}{113}\sqrt{42}e^{15}, \frac{10}{113}e^{25},$ $\frac{10}{113}\sqrt{35}e^{17} + \frac{10}{113}\sqrt{13}e^{24}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{20}{113}, -\frac{5}{113}, \frac{35}{113})$ $+ \frac{10}{113}\sqrt{19}e^4 \otimes e_8 + \frac{90}{113}e^1 \otimes e_3$	{1278, 1589, 234579, 34}
9531:20	$0, 0, 0, 0, \frac{10}{113}\sqrt{35}e^{12}, \frac{10}{113}\sqrt{33}e^{13}, \frac{10}{113}\sqrt{42}e^{15}, \frac{10}{113}e^{25},$ $\frac{10}{113}\sqrt{35}e^{17} + \frac{10}{113}\sqrt{13}e^{24}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{20}{113}, -\frac{5}{113}, \frac{35}{113})$ $- \frac{10}{113}\sqrt{19}e^4 \otimes e_8 + \frac{90}{113}e^1 \otimes e_3$	{1278, 1589, 234579, 34}
9531:20	$0, 0, 0, 0, \frac{4}{2731}\sqrt{338185}e^{12}, \frac{4}{2731}\sqrt{59147}e^{13}, \frac{4}{2731}\sqrt{55751}e^{15},$ $\frac{4}{2731}\sqrt{339883}e^{25}, \frac{4}{2731}\sqrt{8490}e^{17} + \frac{60}{2731}\sqrt{849}e^{24}$	$(-\frac{418}{2731}, \frac{1010}{2731}, \frac{610}{2731}, -\frac{1254}{2731}, \frac{592}{2731}, \frac{192}{2731}, \frac{174}{2731}, \frac{1602}{2731}, -\frac{244}{2731})$ $+ \frac{4}{2731}\sqrt{659390}e^2 \otimes e_4$	{1345678, 14578, 235, 256}
9531:20	$0, 0, 0, 0, \frac{6}{679}\sqrt{4890}e^{12}, \frac{4}{679}\sqrt{10595}e^{13}, \frac{36}{679}\sqrt{163}e^{15}, \frac{2}{679}\sqrt{5379}e^{25},$ $\frac{6}{679}\sqrt{4890}e^{17} + \frac{2}{679}\sqrt{22983}e^{24}$	$(\frac{75}{679}, -\frac{12}{679}, -\frac{251}{679}, \frac{225}{679}, \frac{9}{679}, -\frac{176}{679}, \frac{138}{679}, \frac{51}{679}, \frac{213}{679})$ $+ \frac{2}{679}\sqrt{96985}e^1 \otimes e_3$	{127, 159, 2345789, 348}
9531:20	$0, 0, 0, 0, \frac{1}{4}\sqrt{15}e^{12}, \frac{1}{2}\sqrt{5}e^{13}, \frac{1}{6}\sqrt{33}e^{15}, \frac{1}{12}\sqrt{6}e^{25},$ $\frac{1}{4}\sqrt{15}e^{17} + \frac{1}{12}\sqrt{138}e^{24}$	$(0, \frac{1}{8}, -\frac{1}{4}, 0, \frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8})$ $+ \frac{1}{12}\sqrt{210}e^1 \otimes e_3 + \frac{5}{12}\sqrt{6}e^4 \otimes e_6$	{1278, 1589}
9531:20	$0, 0, 0, 0, \frac{14}{167}\sqrt{10}e^{12}, \frac{14}{501}\sqrt{258}e^{13}, \frac{14}{501}\sqrt{111}e^{15}, \frac{14}{501}\sqrt{258}e^{25},$ $\frac{14}{167}\sqrt{15}e^{17} + \frac{14}{167}\sqrt{15}e^{24}$	$(-\frac{21}{167}, \frac{35}{167}, \frac{70}{167}, -\frac{63}{167}, \frac{14}{167}, \frac{49}{167}, -\frac{7}{167}, \frac{49}{167}, -\frac{28}{167})$ $+ \frac{14}{501}\sqrt{615}e^2 \otimes e_4 + \frac{14}{501}\sqrt{705}e^3 \otimes e_9$	{12689, 479}
9531:20	$0, 0, 0, 0, \frac{32}{3011}\sqrt{1291}e^{12}, \frac{352}{3011}\sqrt{7}e^{13}, \frac{32}{3011}\sqrt{761}e^{15},$ $\frac{32}{3011}\sqrt{449}e^{25}, \frac{64}{3011}\sqrt{182}e^{17} + \frac{32}{3011}\sqrt{743}e^{24}$	$(-\frac{48}{3011}, \frac{368}{3011}, -\frac{560}{3011}, -\frac{144}{3011}, \frac{320}{3011}, -\frac{608}{3011}, \frac{272}{3011}, \frac{688}{3011}, \frac{224}{3011})$ $+ \frac{32}{3011}\sqrt{1126}e^2 \otimes e_4 + \frac{32}{3011}\sqrt{1646}e^1 \otimes e_3$	{1278, 34}
9531:20	$0, 0, 0, 0, \frac{78}{865}\sqrt{30}e^{12}, \frac{26}{865}\sqrt{38}e^{13}, \frac{234}{865}\sqrt{2}e^{15}, \frac{26}{865}\sqrt{93}e^{25},$ $\frac{156}{865}\sqrt{3}e^{17} + \frac{26}{865}\sqrt{15}e^{24}$	$(\frac{39}{865}, \frac{78}{865}, -\frac{299}{865}, \frac{117}{865}, \frac{117}{865}, -\frac{52}{173}, \frac{156}{865}, \frac{39}{173}, \frac{39}{173})$ $+ \frac{26}{865}\sqrt{439}e^1 \otimes e_3 + \frac{468}{865}e^2 \otimes e_6$	{1278, 234579}
9531:20	$0, 0, 0, 0, \frac{4}{319}\sqrt{649}e^{12}, \frac{12}{319}\sqrt{77}e^{13}, \frac{4}{319}\sqrt{671}e^{15}, \frac{4}{319}\sqrt{1595}e^{25},$ $\frac{4}{319}\sqrt{154}e^{17} + \frac{4}{29}\sqrt{5}e^{24}$	$(-\frac{2}{29}, \frac{2}{29}, \frac{10}{29}, -\frac{6}{29}, 0, \frac{8}{29}, -\frac{2}{29}, \frac{2}{29}, -\frac{4}{29})$ $+ \frac{4}{319}\sqrt{1606}e^2 \otimes e_4 + \frac{8}{319}\sqrt{407}e^3 \otimes e_8$	{1268, 3467}
9531:21	$0, 0, 0, 0, \frac{1}{367}\sqrt{74670}e^{12}, \frac{3}{367}\sqrt{3990}e^{13}, \frac{1}{367}\sqrt{16530}e^{15},$ $\frac{1}{367}\sqrt{81510}e^{15}, \frac{24}{367}\sqrt{95}e^{14} + \frac{1}{367}\sqrt{3990}e^{27}$	$(\frac{126}{367}, -\frac{53}{367}, -\frac{7}{367}, -\frac{159}{367}, \frac{73}{367}, \frac{119}{20}, \frac{367}{367}, \frac{20}{367}, -\frac{33}{367})$ $+ \frac{1}{367}\sqrt{177270}e^1 \otimes e_4$	{135, 156, 2345678, 24578}
9531:21	$0, 0, 0, 0, \frac{17}{787}\sqrt{146}e^{12}, \frac{17}{2361}\sqrt{1915}e^{13}, \frac{34}{787}\sqrt{14}e^{25},$ $\frac{17}{2361}\sqrt{1198}e^{15}, \frac{17}{2361}\sqrt{1489}e^{14} + \frac{34}{2361}\sqrt{213}e^{27}$	$(-\frac{289}{2361}, \frac{136}{2361}, \frac{136}{787}, \frac{136}{787}, -\frac{51}{787}, \frac{119}{2361}, -\frac{17}{2361}, -\frac{442}{2361}, \frac{119}{2361})$ $- \frac{17}{2361}\sqrt{1991}e^4 \otimes e_6 + \frac{17}{2361}\sqrt{2417}e^3 \otimes e_9$	{125689, 134, 23678, 4579}
9531:21	$0, 0, 0, 0, \frac{12}{2945}\sqrt{3098}e^{12}, \frac{2}{2945}\sqrt{1360022}e^{13}, \frac{4}{2945}\sqrt{52666}e^{25},$ $\frac{2}{2945}\sqrt{1409590}e^{15}, \frac{2}{2945}\sqrt{816323}e^{14} + \frac{2}{2945}\sqrt{568483}e^{27}$	$(-\frac{687}{2945}, \frac{343}{2945}, \frac{2067}{2945}, \frac{1029}{2945}, -\frac{344}{2945}, \frac{276}{589}, -\frac{1}{2945}, -\frac{1031}{2945}, \frac{18}{155})$ $+ \frac{2}{2945}\sqrt{3784207}e^3 \otimes e_8$	{12357, 146789, 2369, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:21	$0, 0, 0, 0, \frac{3}{1411}\sqrt{130910}e^{12}, \frac{1}{1411}\sqrt{843866}e^{13}, \frac{4}{1411}\sqrt{15105}e^{25},$ $\frac{2}{1411}\sqrt{274911}e^{15}, \frac{4}{1411}\sqrt{39273}e^{14} + \frac{1}{1411}\sqrt{477318}e^{27}$	$(\frac{387}{1411}, -\frac{42}{1411}, -\frac{620}{1411}, -\frac{126}{1411}, \frac{345}{1411}, -\frac{233}{1411}, \frac{303}{1411}, \frac{732}{1411}, \frac{261}{1411})$ $+ \frac{35}{1411}\sqrt{2014}e^1 \otimes e_3$	{1248, 159, 2345789, 37}
9531:21	$0, 0, 0, 0, \frac{4}{2933}\sqrt{215009}e^{12}, \frac{2}{2933}\sqrt{1250313}e^{13}, \frac{6}{2933}\sqrt{39741}e^{25},$ $\frac{6}{2933}\sqrt{70311}e^{15}, \frac{2}{2933}\sqrt{730623}e^{14} + \frac{4}{2933}\sqrt{259845}e^{27}$	$(-\frac{47}{2933}, -\frac{95}{2933}, \frac{1706}{2933}, -\frac{285}{2933}, -\frac{142}{2933}, \frac{237}{419}, -\frac{237}{2933}, -\frac{27}{419}, -\frac{332}{2933})$ $+ \frac{2}{2933}\sqrt{2548519}e^3 \otimes e_9$	{125689, 134, 23678, 4579}
9531:21	$0, 0, 0, 0, \frac{12}{2873}\sqrt{20410}e^{12}, \frac{72}{2873}\sqrt{1099}e^{13}, \frac{6}{2873}\sqrt{57305}e^{25},$ $\frac{6}{2873}\sqrt{101579}e^{15}, \frac{12}{2873}\sqrt{39878}e^{14} + \frac{2}{2873}\sqrt{157}e^{27}$	$(-\frac{409}{2873}, \frac{619}{2873}, -\frac{560}{2873}, \frac{1857}{2873}, \frac{210}{2873}, -\frac{57}{169}, \frac{829}{2873}, -\frac{199}{2873}, \frac{1448}{2873})$ $+ \frac{30}{2873}\sqrt{15229}e^4 \otimes e_6$	{123458, 169, 24789, 3567}
9531:21	$0, 0, 0, 0, \frac{42}{859}\sqrt{23}e^{12}, \frac{14}{859}\sqrt{267}e^{13}, \frac{56}{859}\sqrt{10}e^{25}, \frac{14}{859}\sqrt{62}e^{15},$ $\frac{14}{859}\sqrt{211}e^{14} + \frac{14}{859}\sqrt{182}e^{27}$	$(\frac{77}{859}, -\frac{7}{859}, -\frac{182}{859}, -\frac{21}{859}, \frac{70}{859}, -\frac{105}{859}, \frac{63}{859}, \frac{147}{859}, \frac{56}{859})$ $+ \frac{14}{859}\sqrt{317}e^1 \otimes e_4 + \frac{14}{859}\sqrt{457}e^2 \otimes e_6$	{12378, 346}
9531:21	$0, 0, 0, 0, \frac{52}{3063}\sqrt{562}e^{12}, \frac{208}{3063}\sqrt{37}e^{13}, \frac{260}{3063}\sqrt{5}e^{25}, \frac{52}{3063}\sqrt{57}e^{15},$ $\frac{52}{3063}\sqrt{839}e^{14} + \frac{52}{3063}\sqrt{573}e^{27}$	$(-\frac{494}{3063}, \frac{182}{3063}, \frac{468}{1021}, \frac{182}{1021}, -\frac{104}{1021}, \frac{910}{3063}, -\frac{130}{3063}, -\frac{806}{3063}, \frac{52}{3063})$ $- \frac{52}{3063}\sqrt{1067}e^4 \otimes e_8 + \frac{52}{3063}\sqrt{1678}e^3 \otimes e_9$	{125689, 134, 23678, 4579}
9531:21	$0, 0, 0, 0, \frac{52}{3063}\sqrt{562}e^{12}, \frac{208}{3063}\sqrt{37}e^{13}, \frac{260}{3063}\sqrt{5}e^{25}, \frac{52}{3063}\sqrt{57}e^{15},$ $\frac{52}{3063}\sqrt{839}e^{14} + \frac{52}{3063}\sqrt{573}e^{27}$	$(-\frac{494}{3063}, \frac{182}{3063}, \frac{468}{1021}, \frac{182}{1021}, -\frac{104}{1021}, \frac{910}{3063}, -\frac{130}{3063}, -\frac{806}{3063}, \frac{52}{3063})$ $+ \frac{52}{3063}\sqrt{1067}e^4 \otimes e_8 + \frac{52}{3063}\sqrt{1678}e^3 \otimes e_9$	{125689, 134, 23678, 4579}
9531:21	$0, 0, 0, 0, \frac{147}{4973}\sqrt{190}e^{12}, \frac{49}{4973}\sqrt{434}e^{13}, \frac{98}{4973}\sqrt{30}e^{25},$ $\frac{98}{4973}\sqrt{339}e^{15}, \frac{196}{4973}\sqrt{177}e^{14} + \frac{49}{4973}\sqrt{1182}e^{27}$	$(\frac{441}{4973}, \frac{294}{4973}, -\frac{1960}{4973}, \frac{882}{4973}, \frac{735}{4973}, -\frac{1519}{4973}, \frac{1029}{4973}, \frac{1176}{4973}, \frac{1323}{4973})$ $+ \frac{245}{4973}\sqrt{214}e^1 \otimes e_3 + \frac{2940}{4973}e^4 \otimes e_6$	{1248, 2345789}
9531:21	$0, 0, 0, 0, \frac{2}{3069}\sqrt{298995}e^{12}, \frac{4}{3069}\sqrt{196115}e^{13}, \frac{8}{3069}\sqrt{46939}e^{25},$ $\frac{2}{3069}\sqrt{279705}e^{15}, \frac{2}{1023}\sqrt{44367}e^{14} + \frac{10}{3069}\sqrt{27649}e^{27}$	$(-\frac{167}{3069}, \frac{361}{3069}, -\frac{758}{3069}, \frac{361}{1023}, \frac{194}{3069}, -\frac{925}{3069}, \frac{185}{1023}, \frac{3}{341}, \frac{916}{3069})$ $+ \frac{2}{3069}\sqrt{1676301}e^2 \otimes e_6$	{1237, 1456789, 259, 3468}
9531:21	$0, 0, 0, 0, \frac{61}{7377}\sqrt{1834}e^{12}, \frac{488}{7377}\sqrt{77}e^{13}, \frac{244}{7377}\sqrt{23}e^{25},$ $\frac{61}{2459}\sqrt{42}e^{15}, \frac{61}{7377}\sqrt{1426}e^{14} + \frac{61}{2459}\sqrt{70}e^{27}$	$(-\frac{1708}{7377}, \frac{1159}{7377}, \frac{488}{2459}, \frac{1159}{2459}, -\frac{183}{2459}, -\frac{244}{7377}, \frac{610}{7377}, -\frac{2257}{7377}, \frac{1769}{7377})$ $+ \frac{61}{7377}\sqrt{6374}e^3 \otimes e_8 + \frac{61}{7377}\sqrt{6898}e^4 \otimes e_6$	{2367, 45789}
9531:21	$0, 0, 0, 0, \frac{44}{547}e^{12}, \frac{44}{547}\sqrt{42}e^{13}, \frac{66}{547}e^{25}, \frac{132}{547}e^{15},$ $\frac{22}{547}\sqrt{3}e^{14} + \frac{22}{547}\sqrt{105}e^{27}$	$(\frac{77}{547}, -\frac{55}{547}, \frac{154}{547}, -\frac{165}{547}, \frac{22}{547}, \frac{231}{547}, -\frac{33}{547}, \frac{99}{547}, -\frac{88}{547})$ $+ \frac{22}{547}\sqrt{259}e^3 \otimes e_9 + \frac{22}{547}e^1 \otimes e_4$	{15679, 24589}
9531:21	$0, 0, 0, 0, \frac{31}{2669}\sqrt{1230}e^{12}, \frac{31}{2669}\sqrt{1030}e^{13}, \frac{1116}{2669}e^{25}, \frac{62}{2669}\sqrt{15}e^{15},$ $\frac{372}{2669}\sqrt{3}e^{14} + \frac{155}{2669}\sqrt{42}e^{27}$	$(\frac{93}{2669}, \frac{186}{2669}, -\frac{868}{2669}, \frac{558}{2669}, \frac{279}{2669}, -\frac{775}{2669}, \frac{465}{2669}, \frac{372}{2669}, \frac{651}{2669})$ $+ \frac{248}{2669}\sqrt{51}e^2 \otimes e_6 + \frac{31}{2669}\sqrt{1390}e^1 \otimes e_3$	{145679, 346}
9531:21	$0, 0, 0, 0, \frac{156}{6965}\sqrt{77}e^{12}, \frac{78}{6965}\sqrt{1298}e^{13}, \frac{39}{6965}\sqrt{3246}e^{25},$ $\frac{39}{1393}\sqrt{2}e^{15}, \frac{156}{6965}\sqrt{183}e^{14} + \frac{78}{6965}\sqrt{957}e^{27}$	$(-\frac{1014}{6965}, \frac{741}{6965}, \frac{234}{6965}, \frac{2223}{6965}, -\frac{39}{995}, -\frac{156}{1393}, \frac{468}{6965}, -\frac{1287}{6965}, \frac{1209}{6965})$ $+ \frac{39}{6965}\sqrt{4142}e^3 \otimes e_8 + \frac{39}{6965}\sqrt{8270}e^2 \otimes e_6$	{2589, 346}
9531:21	$0, 0, 0, 0, \frac{23}{2373}\sqrt{886}e^{12}, \frac{23}{2373}\sqrt{1097}e^{13}, \frac{23}{2373}\sqrt{466}e^{25},$ $\frac{23}{791}\sqrt{197}e^{15}, \frac{46}{2373}\sqrt{301}e^{14} + \frac{23}{2373}\sqrt{231}e^{27}$	$(\frac{115}{2373}, -\frac{46}{791}, \frac{207}{791}, -\frac{138}{791}, -\frac{23}{2373}, \frac{736}{2373}, -\frac{23}{339}, \frac{92}{2373}, -\frac{299}{2373})$ $+ \frac{23}{2373}\sqrt{2407}e^1 \otimes e_4 + \frac{46}{2373}\sqrt{491}e^3 \otimes e_8$	{135, 24578}
9531:21	$0, 0, 0, 0, \frac{17}{2361}\sqrt{146}e^{12}, \frac{17}{2361}\sqrt{1915}e^{13}, \frac{34}{2361}\sqrt{14}e^{25},$ $\frac{17}{2361}\sqrt{1198}e^{15}, \frac{17}{2361}\sqrt{1489}e^{14} + \frac{34}{2361}\sqrt{213}e^{27}$	$(-\frac{289}{2361}, \frac{136}{2361}, \frac{136}{787}, \frac{136}{787}, -\frac{51}{787}, \frac{119}{2361}, -\frac{17}{2361}, -\frac{442}{2361}, \frac{119}{2361})$ $+ \frac{17}{2361}\sqrt{1991}e^4 \otimes e_6 + \frac{17}{2361}\sqrt{2417}e^3 \otimes e_9$	{125689, 134, 23678, 4579}
9531:22	$0, 0, 0, 0, \frac{1}{2925}\sqrt{290058}e^{12}, \frac{16}{2925}\sqrt{1667}e^{34}, \frac{4}{2925}\sqrt{128359}e^{15},$ $\frac{1}{2925}\sqrt{1623658}e^{36}, \frac{1}{2925}\sqrt{2150430}e^{17}$	$(\frac{674}{2925}, -\frac{331}{975}, \frac{94}{325}, -\frac{821}{2925}, -\frac{319}{2925}, \frac{1}{117}, \frac{71}{585}, \frac{67}{225}, \frac{343}{975})$ $+ \frac{1}{2925}\sqrt{3590718}e^3 \otimes e_4 + \frac{4}{2925}\sqrt{305061}e^1 \otimes e_2$	{1367, 14678, 236, 2468}
9531:22	$0, 0, 0, 0, \frac{1}{59}\sqrt{446}e^{12}, \frac{2}{177}\sqrt{1338}e^{34}, \frac{2}{177}\sqrt{1338}e^{15}, \frac{1}{177}\sqrt{26314}e^{36},$ $\frac{1}{59}\sqrt{446}e^{17}$	$(\frac{2}{59}, \frac{9}{59}, \frac{106}{177}, -\frac{39}{59}, \frac{11}{59}, -\frac{11}{177}, \frac{13}{59}, \frac{95}{177}, \frac{15}{59})$ $+ \frac{1}{177}\sqrt{62886}e^3 \otimes e_4$	{12367, 124678, 13569, 145689, 235679, 2456789, 36, 468}
9531:22	$0, 0, 0, 0, \frac{2}{391}\sqrt{7294}e^{12}, \frac{1}{391}\sqrt{5210}e^{34}, \frac{1}{391}\sqrt{5210}e^{15},$ $\frac{1}{1173}\sqrt{407422}e^{36}, \frac{1}{1173}\sqrt{40638}e^{17}$	$(-\frac{41}{391}, \frac{155}{391}, \frac{155}{1173}, -\frac{122}{391}, \frac{114}{391}, -\frac{211}{1173}, \frac{73}{391}, -\frac{56}{1173}, \frac{32}{391})$ $+ \frac{2}{1173}\sqrt{151611}e^2 \otimes e_8 + \frac{4}{1173}\sqrt{29697}e^3 \otimes e_4$	{123679, 14568, 23567, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:22	$0, 0, 0, 0, \frac{8}{907}\sqrt{791}e^{12}, \frac{8}{907}\sqrt{1582}e^{34}, \frac{1}{907}\sqrt{20566}e^{15}, \frac{8}{2721}\sqrt{1434874}e^{36}, \frac{8}{2721}\sqrt{11865}e^{17}$	$(-\frac{178}{907}, \frac{352}{907}, \frac{245}{2721}, -\frac{75}{907}, \frac{174}{907}, \frac{20}{2721}, -\frac{4}{907}, \frac{265}{2721}, -\frac{182}{907}) + \frac{1}{2721}\sqrt{1570926}e^2 \otimes e_8 + \frac{3}{907}\sqrt{26894}e^3 \otimes e_9$	{12367, 145689, 2579, 348}
9531:22	$0, 0, 0, 0, \frac{8}{675}\sqrt{1074}e^{12}, \frac{16}{675}\sqrt{358}e^{34}, \frac{2}{675}\sqrt{5549}e^{15}, \frac{16}{675}\sqrt{358}e^{36}, \frac{8}{675}\sqrt{1074}e^{17}$	$(-\frac{26}{135}, \frac{32}{75}, -\frac{163}{675}, \frac{256}{675}, \frac{158}{675}, \frac{31}{225}, \frac{28}{675}, -\frac{14}{135}, -\frac{34}{225}) + \frac{2}{675}\sqrt{52089}e^2 \otimes e_8 + \frac{2}{675}\sqrt{52089}e^4 \otimes e_9$	{235679, 2579, 348, 468}
9531:22	$0, 0, 0, 0, \frac{1}{717}\sqrt{52494}e^{12}, \frac{1}{717}\sqrt{321694}e^{34}, \frac{1}{239}\sqrt{6730}e^{15}, \frac{1}{239}\sqrt{6730}e^{36}, \frac{2}{239}\sqrt{9422}e^{17}$	$(-\frac{41}{239}, \frac{58}{239}, -\frac{149}{239}, \frac{2}{239}, \frac{17}{239}, \frac{329}{239}, -\frac{24}{239}, \frac{60}{239}, -\frac{65}{239}) + \frac{2}{717}\sqrt{195843}e^4 \otimes e_9$	{123569, 1259, 13478, 14678, 2348, 2468, 35679, 579}
9531:22	$0, 0, 0, 0, \frac{1}{12}\sqrt{33}e^{12}, \frac{1}{24}\sqrt{33}e^{34}, \frac{1}{6}\sqrt{11}e^{15}, \frac{1}{6}\sqrt{11}e^{36}, \frac{1}{12}\sqrt{33}e^{17}$	$(\frac{1}{6}, -\frac{1}{16}, -\frac{5}{24}, \frac{1}{8}, \frac{5}{48}, -\frac{1}{12}, \frac{13}{48}, -\frac{7}{24}, \frac{7}{16}) + \frac{1}{24}\sqrt{429}e^1 \otimes e_8$	{12367, 127, 13569, 159, 2345789, 2456789, 348, 468}
9531:22	$0, 0, 0, 0, \frac{2}{219}\sqrt{669}e^{12}, \frac{2}{657}\sqrt{13603}e^{34}, \frac{2}{657}\sqrt{13603}e^{15}, \frac{5}{657}\sqrt{446}e^{36}, \frac{1}{657}\sqrt{105702}e^{17}$	$(\frac{61}{657}, -\frac{18}{73}, -\frac{8}{73}, \frac{244}{657}, -\frac{101}{657}, \frac{172}{657}, -\frac{40}{657}, \frac{100}{657}, \frac{7}{219}) + \frac{1}{657}\sqrt{129786}e^1 \otimes e_2 + \frac{1}{657}\sqrt{129786}e^4 \otimes e_9$	{13478, 14678, 2348, 2468}
9531:22	$0, 0, 0, 0, \frac{2}{741}\sqrt{9597}e^{12}, \frac{1}{741}\sqrt{225758}e^{34}, \frac{1}{247}\sqrt{4570}e^{15}, \frac{1}{741}\sqrt{225758}e^{36}, \frac{1}{247}\sqrt{26506}e^{17}$	$(-\frac{43}{247}, \frac{59}{247}, \frac{1}{3}, -\frac{112}{741}, \frac{16}{247}, \frac{45}{247}, -\frac{27}{247}, \frac{382}{741}, -\frac{70}{247}) + \frac{2}{741}\sqrt{138471}e^3 \otimes e_9$	{1245689, 1259, 13478, 1367, 2348, 236, 456789, 579}
9531:22	$0, 0, 0, 0, \frac{2}{239}\sqrt{9422}e^{12}, \frac{1}{239}\sqrt{6730}e^{34}, \frac{1}{239}\sqrt{6730}e^{15}, \frac{1}{717}\sqrt{321694}e^{36}, \frac{1}{717}\sqrt{52494}e^{17}$	$(-\frac{41}{239}, \frac{155}{239}, -\frac{149}{239}, \frac{30}{239}, \frac{114}{239}, -\frac{59}{717}, \frac{73}{239}, -\frac{208}{717}, \frac{32}{239}) + \frac{2}{717}\sqrt{195843}e^2 \otimes e_8$	{123679, 1279, 13458, 14568, 23567, 257, 3489, 4689}
9531:22	$0, 0, 0, 0, \frac{2}{289}\sqrt{759}e^{12}, \frac{12}{289}\sqrt{55}e^{34}, \frac{24}{289}\sqrt{11}e^{15}, \frac{12}{289}\sqrt{55}e^{36}, \frac{4}{289}\sqrt{858}e^{17}$	$(\frac{15}{289}, -\frac{3}{17}, \frac{60}{289}, -\frac{25}{289}, -\frac{36}{289}, \frac{35}{289}, -\frac{21}{289}, \frac{95}{289}, -\frac{6}{289}) + \frac{2}{289}\sqrt{3597}e^1 \otimes e_2 + \frac{2}{289}\sqrt{4785}e^3 \otimes e_9$	{13478, 1367, 2348, 236}
9531:22	$0, 0, 0, 0, \frac{1}{520}\sqrt{50685}e^{12}, \frac{1}{520}\sqrt{15042}e^{34}, \frac{1}{520}\sqrt{15042}e^{15}, \frac{3}{520}\sqrt{6758}e^{36}, \frac{1}{520}\sqrt{50685}e^{17}$	$(-\frac{109}{520}, \frac{93}{208}, \frac{163}{520}, -\frac{41}{130}, \frac{19}{80}, -\frac{1}{520}, \frac{29}{1040}, \frac{81}{260}, -\frac{189}{1040}) + \frac{1}{520}\sqrt{157614}e^2 \otimes e_9 + \frac{3}{260}\sqrt{3815}e^3 \otimes e_4$	{12367, 124678, 13569, 145689}
9531:22	$0, 0, 0, 0, \frac{1}{227}\sqrt{2726}e^{12}, \frac{1}{227}\sqrt{3290}e^{34}, \frac{1}{227}\sqrt{4794}e^{15}, \frac{1}{227}\sqrt{4794}e^{36}, \frac{2}{227}\sqrt{1551}e^{17}$	$(\frac{7}{227}, \frac{2}{227}, -\frac{55}{227}, \frac{70}{227}, \frac{9}{227}, \frac{15}{227}, \frac{16}{227}, -\frac{40}{227}, \frac{23}{227}) + \frac{2}{227}\sqrt{1739}e^4 \otimes e_9 + \frac{2}{227}\sqrt{2867}e^1 \otimes e_8$	{13569, 159, 348, 468}
9531:22	$0, 0, 0, 0, \frac{1}{142}\sqrt{1491}e^{12}, \frac{3}{71}\sqrt{7}e^{34}, \frac{4}{71}\sqrt{21}e^{15}, \frac{4}{71}\sqrt{21}e^{36}, \frac{1}{142}\sqrt{1491}e^{17}$	$(-\frac{7}{142}, \frac{57}{284}, -\frac{10}{71}, \frac{6}{71}, \frac{43}{284}, -\frac{4}{71}, \frac{29}{284}, -\frac{14}{71}, \frac{15}{284}) + \frac{1}{71}\sqrt{483}e^2 \otimes e_9 + \frac{3}{71}\sqrt{91}e^1 \otimes e_8$	{12367, 127, 13569, 159}
9531:22	$0, 0, 0, 0, \frac{2}{67}\sqrt{94}e^{12}, \frac{1}{67}\sqrt{94}e^{34}, \frac{4}{201}\sqrt{282}e^{15}, \frac{1}{201}\sqrt{6298}e^{36}, \frac{2}{67}\sqrt{94}e^{17}$	$(\frac{8}{67}, -\frac{3}{67}, \frac{8}{201}, -\frac{13}{67}, \frac{5}{67}, -\frac{31}{201}, \frac{13}{67}, -\frac{23}{201}, \frac{21}{67}) + \frac{1}{201}\sqrt{5358}e^3 \otimes e_4 + \frac{1}{67}\sqrt{1222}e^1 \otimes e_8$	{12367, 13569, 2456789, 468}
9531:22	$0, 0, 0, 0, \frac{1}{10}\sqrt{55}e^{12}, \frac{1}{15}\sqrt{33}e^{34}, \frac{1}{15}\sqrt{33}e^{15}, \frac{1}{15}\sqrt{33}e^{36}, \frac{1}{10}\sqrt{55}e^{17}$	$(-\frac{11}{30}, \frac{3}{4}, \frac{1}{15}, \frac{2}{15}, \frac{23}{60}, \frac{1}{5}, \frac{1}{60}, \frac{4}{15}, -\frac{7}{20}) + \frac{2}{5}\sqrt{11}e^2 \otimes e_9$	{123478, 12367, 124678, 127, 134589, 13569, 145689, 159}
9531:22	$0, 0, 0, 0, \frac{1}{717}\sqrt{52494}e^{12}, \frac{1}{239}\sqrt{6730}e^{34}, \frac{1}{717}\sqrt{321694}e^{15}, \frac{1}{239}\sqrt{6730}e^{36}, \frac{2}{239}\sqrt{9422}e^{17}$	$(\frac{265}{717}, -\frac{136}{239}, \frac{15}{239}, \frac{30}{239}, -\frac{143}{717}, \frac{45}{239}, \frac{122}{717}, \frac{60}{239}, \frac{129}{239}) + \frac{2}{717}\sqrt{195843}e^1 \otimes e_2$	{13478, 1367, 14678, 17, 2, 2348, 236, 2468}
9531:22	$0, 0, 0, 0, \frac{5}{777}\sqrt{30}e^{12}, \frac{2}{777}\sqrt{345}e^{34}, \frac{1}{259}\sqrt{170}e^{15}, \frac{1}{777}\sqrt{2590}e^{36}, \frac{2}{259}\sqrt{65}e^{17}$	$(-\frac{1}{259}, \frac{1}{37}, \frac{17}{777}, -\frac{2}{777}, \frac{6}{259}, -\frac{25}{777}, \frac{5}{259}, -\frac{8}{777}, \frac{4}{259}) + \frac{11}{777}\sqrt{30}e^1 \otimes e_8 + \frac{2}{777}\sqrt{795}e^3 \otimes e_9$	{12367, 159, 2456789, 348}
9531:24	$0, 0, 0, 0, \frac{24}{31}\sqrt{42}e^{12}, \frac{18}{217}\sqrt{119}e^{13}, \frac{3}{217}\sqrt{210}e^{25}, \frac{12}{31}\sqrt{3}e^{15} + \frac{3}{217}\sqrt{3990}e^{23}, \frac{3}{217}\sqrt{798}e^{27} + \frac{24}{217}\sqrt{42}e^{34}$	$(\frac{6}{31}, -\frac{3}{31}, \frac{12}{31}, -\frac{15}{31}, \frac{3}{31}, \frac{18}{31}, 0, \frac{9}{31}, -\frac{3}{31}) + \frac{3}{217}\sqrt{8106}e^3 \otimes e_4$	{1245678, 45}
9531:24	$0, 0, 0, 0, \frac{212}{4837}\sqrt{109}e^{12}, \frac{53}{4837}\sqrt{4010}e^{13}, \frac{530}{4837}\sqrt{19}e^{25}, \frac{212}{4837}\sqrt{273}e^{15} + \frac{212}{4837}\sqrt{155}e^{23}, \frac{53}{4837}\sqrt{2554}e^{27} + \frac{53}{4837}\sqrt{4586}e^{34}$	$(-\frac{477}{4837}, \frac{689}{4837}, -\frac{954}{4837}, \frac{2544}{4837}, \frac{212}{4837}, -\frac{1431}{4837}, \frac{901}{4837}, -\frac{265}{4837}, \frac{1590}{4837}) + \frac{53}{691}\sqrt{174}e^4 \otimes e_8$	{128, 1459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:24	$0, 0, 0, 0, \frac{5}{451}\sqrt{1047}e^{12}, \frac{45}{451}\sqrt{3}e^{13}, \frac{10}{451}\sqrt{42}e^{25},$ $\frac{15}{451}\sqrt{134}e^{15} + \frac{105}{451}\sqrt{3}e^{23}, \frac{5}{451}\sqrt{645}e^{27} + \frac{5}{451}\sqrt{1047}e^{34}$	$(\frac{35}{451}, -\frac{25}{451}, \frac{70}{451}, -\frac{10}{41}, \frac{10}{451}, \frac{105}{451}, -\frac{15}{451}, \frac{45}{451}, -\frac{40}{451})$ $+ \frac{5}{451}\sqrt{2319}e^1 \otimes e_9$	{123478, 235689}
9531:24	$0, 0, 0, 0, \frac{37}{1297}\sqrt{33}e^{12}, \frac{1036}{1297}e^{13}, \frac{74}{1297}\sqrt{83}e^{25},$ $\frac{74}{1297}\sqrt{15}e^{15} + \frac{185}{1297}\sqrt{19}e^{23}, \frac{37}{1297}\sqrt{53}e^{27} + \frac{74}{1297}\sqrt{186}e^{34}$	$(-\frac{148}{1297}, \frac{259}{1297}, -\frac{296}{1297}, \frac{925}{1297}, \frac{111}{1297}, -\frac{444}{1297}, \frac{370}{1297}, -\frac{37}{1297}, \frac{629}{1297})$ $+ \frac{111}{1297}\sqrt{237}e^4 \otimes e_6$	{1267, 2459}
9531:24	$0, 0, 0, 0, \frac{172}{5125}\sqrt{6}e^{12}, \frac{43}{5125}\sqrt{4990}e^{13}, \frac{172}{5125}\sqrt{254}e^{25},$ $\frac{43}{5125}\sqrt{2886}e^{15} + \frac{172}{5125}\sqrt{59}e^{23}, \frac{86}{5125}\sqrt{1007}e^{27} + \frac{43}{5125}\sqrt{2874}e^{34}$	$(-\frac{86}{1025}, \frac{559}{5125}, -\frac{172}{1025}, \frac{2107}{5125}, \frac{129}{5125}, -\frac{258}{1025}, \frac{688}{5125}, -\frac{301}{5125}, \frac{1247}{5125})$ $+ \frac{387}{5125}\sqrt{110}e^2 \otimes e_6$	{1237, 368}
9531:25	$0, 0, 0, 0, \frac{106}{5085}\sqrt{109}e^{12}, \frac{53}{5085}\sqrt{4362}e^{13}, \frac{53}{5085}\sqrt{2982}e^{15},$ $\frac{53}{5085}\sqrt{3190}e^{25} + \frac{53}{5085}\sqrt{4870}e^{34}, \frac{212}{5085}\sqrt{247}e^{17} + \frac{106}{5085}\sqrt{778}e^{23}$	$(-\frac{371}{5085}, \frac{106}{565}, -\frac{371}{1695}, \frac{530}{1017}, \frac{583}{5085}, -\frac{1484}{5085}, \frac{212}{5085}, \frac{1537}{5085}, -\frac{53}{1695})$ $+ \frac{106}{5085}\sqrt{2194}e^4 \otimes e_9$	{1478, 234}
9531:25	$0, 0, 0, 0, \frac{45}{4721}\sqrt{1874}e^{12}, \frac{135}{4721}\sqrt{566}e^{13}, \frac{45}{4721}\sqrt{3034}e^{15},$ $\frac{45}{4721}\sqrt{4922}e^{25} + \frac{45}{4721}\sqrt{3406}e^{34}, \frac{45}{4721}\sqrt{2390}e^{17} + \frac{270}{4721}\sqrt{31}e^{23}$	$(-\frac{315}{4721}, \frac{765}{4721}, -\frac{945}{4721}, \frac{2160}{4721}, \frac{450}{4721}, -\frac{1260}{4721}, \frac{135}{4721}, \frac{1215}{4721}, -\frac{180}{4721})$ $+ \frac{180}{4721}\sqrt{533}e^2 \otimes e_6$	{12348, 2459}
9531:25	$0, 0, 0, 0, \frac{66}{1157}\sqrt{101}e^{12}, \frac{33}{1157}\sqrt{1042}e^{13}, \frac{33}{1157}\sqrt{286}e^{15},$ $\frac{33}{1157}\sqrt{94}e^{25} + \frac{33}{1157}\sqrt{570}e^{34}, \frac{66}{1157}\sqrt{101}e^{17} + \frac{66}{1157}\sqrt{213}e^{23}$	$(\frac{165}{1157}, -\frac{132}{1157}, \frac{495}{1157}, \frac{594}{1157}, \frac{33}{1157}, \frac{660}{1157}, \frac{198}{1157}, -\frac{99}{1157}, \frac{363}{1157})$ $+ \frac{66}{1157}\sqrt{509}e^3 \otimes e_4$	{1245679, 146}
9531:26	$0, 0, 0, 0, \frac{69}{5309}\sqrt{1082}e^{12}, \frac{1794}{5309}\sqrt{5}e^{13}, \frac{345}{5309}\sqrt{70}e^{15},$ $\frac{69}{5309}\sqrt{3410}e^{14} + \frac{138}{5309}\sqrt{15}e^{25}, \frac{276}{5309}\sqrt{129}e^{17} + \frac{138}{5309}\sqrt{491}e^{34}$	$(-\frac{207}{5309}, \frac{1311}{5309}, -\frac{1932}{5309}, \frac{2622}{5309}, \frac{1104}{5309}, -\frac{2139}{5309}, \frac{897}{5309}, \frac{2415}{5309}, \frac{690}{5309})$ $+ \frac{69}{5309}\sqrt{9138}e^4 \otimes e_6$	{168, 3569}
9531:26	$0, 0, 0, 0, \frac{108}{2779}\sqrt{235}e^{12}, \frac{108}{2779}\sqrt{269}e^{13}, \frac{108}{2779}\sqrt{103}e^{15},$ $\frac{54}{2779}\sqrt{787}e^{14} + \frac{54}{2779}\sqrt{1326}e^{25}, \frac{54}{2779}\sqrt{330}e^{17} + \frac{108}{2779}\sqrt{35}e^{34}$	$(-\frac{108}{2779}, \frac{513}{2779}, -\frac{837}{2779}, \frac{1026}{2779}, \frac{405}{2779}, -\frac{135}{397}, \frac{297}{2779}, \frac{918}{2779}, \frac{27}{397})$ $- \frac{1080}{2779}\sqrt{6}e^2 \otimes e_6$	{12348, 1456789, 2459, 3467}
9531:26	$0, 0, 0, 0, \frac{108}{2779}\sqrt{235}e^{12}, \frac{108}{2779}\sqrt{269}e^{13}, \frac{108}{2779}\sqrt{103}e^{15},$ $\frac{54}{2779}\sqrt{787}e^{14} + \frac{54}{2779}\sqrt{1326}e^{25}, \frac{54}{2779}\sqrt{330}e^{17} + \frac{108}{2779}\sqrt{35}e^{34}$	$(-\frac{108}{2779}, \frac{513}{2779}, -\frac{837}{2779}, \frac{1026}{2779}, \frac{405}{2779}, -\frac{135}{397}, \frac{297}{2779}, \frac{918}{2779}, \frac{27}{397})$ $+ \frac{1080}{2779}\sqrt{6}e^2 \otimes e_6$	{12348, 1456789, 2459, 3467}
9531:26	$0, 0, 0, 0, \frac{12}{161}\sqrt{10}e^{12}, \frac{3}{161}\sqrt{83}e^{13}, \frac{9}{161}\sqrt{5}e^{15},$ $\frac{3}{161}\sqrt{155}e^{14} + \frac{36}{161}e^{25}, \frac{12}{161}\sqrt{5}e^{17} + \frac{12}{161}\sqrt{10}e^{34}$	$(-\frac{3}{161}, \frac{9}{161}, -\frac{18}{161}, \frac{18}{161}, \frac{6}{161}, -\frac{3}{23}, \frac{3}{161}, \frac{15}{161}, 0)$ $+ \frac{3}{161}\sqrt{281}e^2 \otimes e_9$	{1234678, 14589}
9531:26	$0, 0, 0, 0, \frac{15}{287}\sqrt{38}e^{12}, \frac{3}{287}\sqrt{4142}e^{13}, \frac{3}{287}\sqrt{2926}e^{15},$ $\frac{6}{287}\sqrt{551}e^{14} + \frac{6}{287}\sqrt{969}e^{25}, \frac{18}{287}\sqrt{57}e^{17} + \frac{6}{287}\sqrt{551}e^{34}$	$(\frac{27}{287}, -\frac{39}{287}, \frac{120}{287}, -\frac{78}{287}, -\frac{12}{287}, \frac{21}{41}, \frac{15}{287}, -\frac{51}{287}, \frac{6}{41})$ $+ \frac{3}{287}\sqrt{9462}e^3 \otimes e_8$	{134, 4589}
9531:27	$0, 0, 0, 0, \frac{56}{509}\sqrt{15}e^{12}, \frac{14}{509}\sqrt{526}e^{13}, \frac{42}{509}\sqrt{26}e^{25},$ $\frac{28}{509}\sqrt{91}e^{15} + \frac{28}{509}\sqrt{163}e^{24}, \frac{168}{509}e^{27} + \frac{14}{509}\sqrt{334}e^{34}$	$(-\frac{84}{509}, \frac{70}{509}, \frac{294}{509}, -\frac{168}{509}, -\frac{14}{509}, \frac{210}{509}, \frac{56}{509}, -\frac{98}{509}, \frac{126}{509})$ $+ \frac{14}{509}\sqrt{1722}e^3 \otimes e_8$	{2346, 4589}
9531:27	$0, 0, 0, 0, \frac{49}{3757}\sqrt{2626}e^{12}, \frac{98}{3757}\sqrt{1093}e^{13}, \frac{49}{3757}\sqrt{390}e^{25},$ $\frac{196}{3757}\sqrt{161}e^{15} + \frac{49}{3757}\sqrt{4582}e^{24}, \frac{196}{3757}\sqrt{15}e^{27} + \frac{980}{3757}e^{34}$	$(\frac{49}{221}, -\frac{245}{3757}, -\frac{1568}{3757}, \frac{98}{221}, \frac{588}{3757}, -\frac{735}{3757}, \frac{343}{3757}, \frac{1421}{3757}, \frac{98}{3757})$ $+ \frac{147}{3757}\sqrt{742}e^4 \otimes e_6$	{1256789, 2368}
9531:27	$0, 0, 0, 0, \frac{7}{1411}\sqrt{4710}e^{12}, \frac{21}{1411}\sqrt{222}e^{13}, \frac{7}{1411}\sqrt{366}e^{25},$ $\frac{84}{1411}\sqrt{35}e^{15} + \frac{63}{1411}\sqrt{62}e^{24}, \frac{14}{1411}\sqrt{339}e^{27} + \frac{7}{1411}\sqrt{4710}e^{34}$	$(\frac{7}{83}, -\frac{49}{1411}, -\frac{266}{1411}, \frac{14}{83}, \frac{70}{1411}, -\frac{147}{1411}, \frac{21}{1411}, \frac{189}{1411}, -\frac{28}{1411})$ $+ \frac{245}{1411}\sqrt{6}e^1 \otimes e_9$	{1234678, 245689}
9531:28	$0, 0, 0, 0, \frac{58}{2333}\sqrt{510}e^{12}, \frac{58}{2333}\sqrt{662}e^{13}, \frac{174}{2333}\sqrt{2}e^{15},$ $\frac{58}{2333}\sqrt{255}e^{25} + \frac{58}{2333}\sqrt{395}e^{34}, \frac{332}{2333}\sqrt{30}e^{17} + \frac{58}{2333}\sqrt{741}e^{24}$	$(-\frac{261}{2333}, \frac{377}{2333}, \frac{1276}{2333}, -\frac{783}{2333}, \frac{116}{2333}, \frac{1015}{2333}, -\frac{145}{2333}, \frac{493}{2333}, -\frac{406}{2333})$ $+ \frac{348}{2333}\sqrt{55}e^3 \otimes e_9$	{14689, 279}
9531:28	$0, 0, 0, 0, \frac{18}{2053}\sqrt{110}e^{12}, \frac{54}{2053}\sqrt{178}e^{13}, \frac{18}{2053}\sqrt{838}e^{15},$ $\frac{90}{2053}\sqrt{41}e^{25} + \frac{18}{2053}\sqrt{1165}e^{34}, \frac{36}{2053}\sqrt{215}e^{17} + \frac{54}{2053}\sqrt{109}e^{24}$	$(\frac{99}{2053}, -\frac{63}{2053}, -\frac{324}{2053}, \frac{297}{2053}, \frac{36}{2053}, -\frac{225}{2053}, \frac{135}{2053}, -\frac{27}{2053}, \frac{234}{2053})$ $+ \frac{36}{2053}\sqrt{485}e^2 \otimes e_6$	{12348, 367}
9531:29	$0, 0, 0, 0, \frac{62}{1701}\sqrt{214}e^{12}, \frac{31}{1701}\sqrt{137}e^{13}, \frac{31}{567}\sqrt{51}e^{25},$ $\frac{31}{1701}\sqrt{874}e^{15} + \frac{31}{1701}\sqrt{805}e^{34}, \frac{62}{1701}\sqrt{157}e^{14} + \frac{341}{1701}\sqrt{10}e^{27}$	$(\frac{62}{567}, -\frac{155}{1701}, \frac{682}{1701}, -\frac{155}{567}, \frac{31}{1701}, \frac{124}{243}, -\frac{124}{1701}, \frac{31}{243}, -\frac{31}{189})$ $+ \frac{31}{1701}\sqrt{2899}e^3 \otimes e_9$	{134, 23678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:29	$0, 0, 0, 0, \frac{27}{1757}\sqrt{555e^{12}}, \frac{108}{1757}\sqrt{85e^{13}}, \frac{27}{1757}\sqrt{1346e^{25}},$ $\frac{54}{1757}\sqrt{131e^{15}} + \frac{27}{1757}\sqrt{149e^{34}}, \frac{27}{1757}\sqrt{746e^{14}} + \frac{27}{1757}\sqrt{1235e^{27}}$	$(-\frac{54}{1757}, \frac{27}{251}, -\frac{486}{1757}, \frac{81}{251}, \frac{135}{1757}, -\frac{540}{1757}, \frac{324}{1757}, \frac{81}{1757}, \frac{513}{1757})$ $+ \frac{27}{1757}\sqrt{2977e^2} \otimes e_6$	{1456789, 259}
9531:29	$0, 0, 0, 0, \frac{38}{833}\sqrt{122e^{12}}, \frac{76}{833}\sqrt{62e^{13}}, \frac{38}{833}\sqrt{118e^{25}},$ $\frac{38}{833}\sqrt{223e^{15}} + \frac{38}{833}\sqrt{187e^{34}}, \frac{38}{833}\sqrt{247e^{14}} + \frac{38}{833}\sqrt{2e^{27}}$	$(-\frac{19}{833}, \frac{19}{119}, -\frac{304}{833}, \frac{57}{119}, \frac{114}{833}, -\frac{19}{49}, \frac{247}{833}, \frac{95}{833}, \frac{380}{833})$ $+ \frac{114}{833}\sqrt{78e^4} \otimes e_6$	{134, 23678}
9531:30	$0, 0, 0, 0, \frac{35}{4133}\sqrt{546e^{12}}, \frac{35}{4133}\sqrt{5466e^{14}} + \frac{70}{4133}\sqrt{1011e^{23}},$ $\frac{35}{4133}\sqrt{4226e^{15}}, \frac{70}{4133}\sqrt{813e^{13}} + \frac{210}{4133}\sqrt{123e^{25}}, \frac{70}{4133}\sqrt{642e^{17}}$	$(-\frac{455}{4133}, \frac{315}{4133}, \frac{630}{4133}, \frac{1400}{4133}, -\frac{140}{4133}, \frac{945}{4133}, -\frac{595}{4133}, \frac{175}{4133}, -\frac{1050}{4133})$ $+ \frac{35}{4133}\sqrt{7798e^4} \otimes e_8$	{134, 3589}
9531:30	$0, 0, 0, 0, \frac{28}{411}\sqrt{42e^{12}}, \frac{7}{411}\sqrt{579e^{14}} + \frac{28}{137}\sqrt{6e^{23}}, \frac{7}{411}\sqrt{381e^{15}},$ $\frac{7}{411}\sqrt{939e^{13}} + \frac{28}{137}\sqrt{5e^{25}}, \frac{28}{411}\sqrt{69e^{17}}$	$(-\frac{49}{411}, \frac{35}{411}, \frac{70}{411}, \frac{154}{411}, -\frac{14}{411}, \frac{35}{137}, -\frac{21}{137}, \frac{7}{137}, -\frac{112}{411})$ $+ \frac{7}{411}\sqrt{2121e^2} \otimes e_9$	{12378, 1345689}
9531:30	$0, 0, 0, 0, \frac{140}{2379}\sqrt{7e^{12}}, \frac{140}{2379}\sqrt{201e^{14}} + \frac{140}{2379}\sqrt{10e^{23}},$ $\frac{140}{2379}\sqrt{31e^{15}}, \frac{70}{2379}\sqrt{339e^{13}} + \frac{70}{2379}\sqrt{298e^{25}}, \frac{1330}{2379}\sqrt{2e^{17}}$	$(-\frac{140}{793}, \frac{385}{2379}, \frac{770}{2379}, \frac{525}{793}, -\frac{35}{2379}, \frac{385}{793}, -\frac{35}{183}, \frac{350}{2379}, -\frac{875}{2379})$ $- \frac{140}{2379}\sqrt{497e^4} \otimes e_9$	{12457, 169, 2789, 4568}
9531:30	$0, 0, 0, 0, \frac{140}{2379}\sqrt{7e^{12}}, \frac{140}{2379}\sqrt{201e^{14}} + \frac{140}{2379}\sqrt{10e^{23}},$ $\frac{140}{2379}\sqrt{31e^{15}}, \frac{70}{2379}\sqrt{339e^{13}} + \frac{70}{2379}\sqrt{298e^{25}}, \frac{1330}{2379}\sqrt{2e^{17}}$	$(-\frac{140}{793}, \frac{385}{2379}, \frac{770}{2379}, \frac{525}{793}, -\frac{35}{2379}, \frac{385}{793}, -\frac{35}{183}, \frac{350}{2379}, -\frac{875}{2379})$ $+ \frac{140}{2379}\sqrt{497e^4} \otimes e_9$	{12457, 169, 2789, 4568}
9531:30	$0, 0, 0, 0, \frac{98}{4813}\sqrt{665e^{12}}, \frac{49}{4813}\sqrt{3842e^{14}} + \frac{98}{4813}\sqrt{262e^{23}},$ $\frac{49}{4813}\sqrt{4702e^{15}}, \frac{98}{4813}\sqrt{314e^{13}} + \frac{49}{4813}\sqrt{1894e^{25}}, \frac{196}{4813}\sqrt{199e^{17}}$	$(\frac{833}{4813}, -\frac{245}{4813}, -\frac{490}{4813}, -\frac{1568}{4813}, \frac{588}{4813}, -\frac{735}{4813}, \frac{1421}{4813}, \frac{343}{4813}, \frac{2254}{4813})$ $+ \frac{49}{4813}\sqrt{8302e^1} \otimes e_4$	{1237, 2345789}
9531:30	$0, 0, 0, 0, \frac{98}{4573}\sqrt{595e^{12}}, \frac{539}{4573}\sqrt{26e^{14}} + \frac{49}{4573}\sqrt{5018e^{23}},$ $\frac{98}{4573}\sqrt{383e^{15}}, \frac{98}{4573}\sqrt{542e^{13}} + \frac{245}{4573}\sqrt{102e^{25}}, \frac{98}{4573}\sqrt{1042e^{17}}$	$(-\frac{637}{4573}, \frac{490}{4573}, \frac{980}{4573}, \frac{2107}{4573}, -\frac{147}{4573}, \frac{1470}{4573}, -\frac{784}{4573}, \frac{343}{4573}, -\frac{1421}{4573})$ $+ \frac{49}{4573}\sqrt{8078e^3} \otimes e_9$	{1245689, 4579}
9531:31	$0, 0, 0, 0, \frac{31}{1372}\sqrt{221e^{12}}, \frac{31}{1372}\sqrt{1070e^{34}}, \frac{93}{1372}\sqrt{46e^{15}},$ $\frac{31}{686}\sqrt{113e^{13}} + \frac{31}{686}\sqrt{302e^{25}}, \frac{31}{1372}\sqrt{221e^{17}} + \frac{93}{1372}\sqrt{102e^{23}}$	$(-\frac{31}{1372}, -\frac{93}{2744}, -\frac{93}{1372}, \frac{837}{1372}, -\frac{155}{2744}, \frac{186}{343}, -\frac{31}{392}, -\frac{31}{343}, -\frac{279}{2744})$ $+ \frac{31}{1372}\sqrt{2326e^4} \otimes e_8$	{2456, 4679}
9531:31	$0, 0, 0, 0, \frac{29}{1124}\sqrt{591e^{12}}, \frac{29}{562}\sqrt{197e^{34}}, \frac{29}{562}\sqrt{33e^{15}},$ $\frac{29}{1124}\sqrt{1290e^{13}} + \frac{29}{562}\sqrt{186e^{25}}, \frac{29}{1124}\sqrt{591e^{17}} + \frac{29}{562}\sqrt{34e^{23}}$	$(\frac{87}{1124}, \frac{261}{2248}, \frac{261}{1124}, -\frac{145}{281}, \frac{435}{2248}, -\frac{319}{1124}, \frac{609}{2248}, \frac{87}{281}, \frac{783}{2248})$ $+ \frac{29}{1124}\sqrt{2098e^3} \otimes e_4$	{1245789, 148}
9531:31	$0, 0, 0, 0, \frac{80}{2887}\sqrt{341e^{12}}, \frac{40}{2887}\sqrt{1409e^{34}}, \frac{120}{2887}\sqrt{14e^{15}},$ $\frac{80}{2887}\sqrt{329e^{13}} + \frac{40}{2887}\sqrt{1367e^{25}}, \frac{120}{2887}\sqrt{15e^{17}} + \frac{80}{2887}\sqrt{6e^{23}}$	$(\frac{120}{2887}, \frac{180}{2887}, \frac{360}{2887}, -\frac{980}{2887}, \frac{300}{2887}, -\frac{620}{2887}, \frac{420}{2887}, \frac{480}{2887}, \frac{540}{2887})$ $+ \frac{40}{2887}\sqrt{2458e^2} \otimes e_6$	{234579, 36}
9531:31	$0, 0, 0, 0, \frac{128}{949}\sqrt{2e^{12}}, \frac{64}{2847}\sqrt{1087e^{34}}, \frac{64}{2847}\sqrt{406e^{15}},$ $\frac{640}{949}e^{13} + \frac{64}{2847}\sqrt{163e^{25}}, \frac{64}{2847}\sqrt{1111e^{17}} + \frac{192}{949}\sqrt{6e^{23}}$	$(-\frac{64}{2847}, -\frac{32}{949}, -\frac{64}{949}, \frac{1760}{2847}, -\frac{160}{2847}, \frac{1568}{2847}, -\frac{224}{2847}, -\frac{256}{2847}, -\frac{96}{949})$ $+ \frac{64}{219}\sqrt{14e^4} \otimes e_9$	{1259, 1467}
9531:31	$0, 0, 0, 0, \frac{19}{1484}\sqrt{1065e^{12}}, \frac{19}{742}\sqrt{355e^{34}}, \frac{19}{1484}\sqrt{994e^{15}},$ $\frac{57}{1484}\sqrt{30e^{13}} + \frac{76}{371}e^{25}, \frac{19}{1484}\sqrt{1065e^{17}} + \frac{19}{1484}\sqrt{1022e^{23}}$	$(\frac{57}{1484}, \frac{171}{2968}, \frac{171}{1484}, -\frac{475}{1484}, \frac{285}{2968}, -\frac{76}{371}, \frac{57}{424}, \frac{57}{371}, \frac{513}{2968})$ $+ \frac{19}{1484}\sqrt{2498e^1} \otimes e_6$	{235679, 36}
9531:32	$0, 0, 0, 0, \frac{32}{1751}\sqrt{285e^{12}}, \frac{48}{1751}\sqrt{141e^{34}}, \frac{16}{1751}\sqrt{102e^{15}},$ $\frac{576}{1751}e^{13} + \frac{32}{1751}\sqrt{1235e^{25}}, \frac{48}{1751}\sqrt{43e^{17}} + \frac{32}{1751}\sqrt{190e^{24}}$	$(-\frac{88}{1751}, \frac{8}{103}, \frac{16}{103}, -\frac{264}{1751}, \frac{48}{1751}, \frac{1751}{1751}, -\frac{40}{1751}, \frac{184}{1751}, -\frac{128}{1751})$ $+ \frac{16}{1751}\sqrt{1506e^2} \otimes e_6$	{135689, 234579}
9531:32	$0, 0, 0, 0, \frac{44}{1547}\sqrt{534e^{12}}, \frac{44}{1547}\sqrt{31e^{34}}, \frac{88}{1547}\sqrt{15e^{15}},$ $\frac{44}{1547}\sqrt{830e^{13}} + \frac{44}{1547}\sqrt{465e^{25}}, \frac{44}{221}\sqrt{3e^{17}} + \frac{396}{1547}\sqrt{10e^{24}}$	$(-\frac{198}{1547}, \frac{22}{91}, \frac{44}{91}, -\frac{594}{1547}, \frac{176}{1547}, \frac{22}{221}, -\frac{22}{1547}, \frac{550}{1547}, -\frac{220}{1547})$ $+ \frac{44}{1547}\sqrt{1362e^3} \otimes e_9$	{1489, 2679}
9531:33	$0, 0, 0, 0, \frac{2}{2953}\sqrt{436363e^{12}}, \frac{58}{2953}\sqrt{2091e^{13}}, \frac{2}{2953}\sqrt{426851e^{15}},$ $\frac{2}{2953}\sqrt{1480305e^{36}}, \frac{4}{2953}\sqrt{7134e^{17}} + \frac{2}{2953}\sqrt{929798e^{34}}$	$(-\frac{375}{2953}, \frac{769}{2953}, \frac{1011}{2953}, -\frac{1367}{2953}, \frac{394}{2953}, \frac{636}{2953}, \frac{19}{2953}, \frac{1647}{2953}, -\frac{356}{2953})$ $+ \frac{2}{2953}\sqrt{3033139e^3} \otimes e_4$	{123578, 1245678, 356, 45}
9531:33	$0, 0, 0, 0, \frac{23}{1961}\sqrt{655e^{12}}, \frac{46}{1961}\sqrt{390e^{13}}, \frac{115}{1961}\sqrt{7e^{15}}, \frac{92}{1961}\sqrt{66e^{36}},$ $\frac{621}{1961}e^{17} + \frac{23}{1961}\sqrt{1007e^{34}}$	$(\frac{138}{1961}, -\frac{391}{1961}, \frac{276}{1961}, -\frac{253}{1961}, -\frac{253}{1961}, \frac{414}{1961}, -\frac{115}{1961}, \frac{690}{1961}, \frac{23}{1961})$ $+ \frac{23}{1961}\sqrt{1761e^1} \otimes e_2 + \frac{23}{1961}\sqrt{1837e^3} \otimes e_4$	{1378, 14678, 236, 24}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:33	$0, 0, 0, 0, \frac{23}{1961}\sqrt{655}e^{12}, \frac{46}{1961}\sqrt{390}e^{13}, \frac{115}{1961}\sqrt{7}e^{15}, \frac{92}{1961}\sqrt{66}e^{36},$ $\frac{621}{1961}e^{17} + \frac{23}{1961}\sqrt{1007}e^{34}$	$(\frac{138}{1961}, -\frac{391}{1961}, \frac{276}{1961}, -\frac{253}{1961}, -\frac{253}{1961}, \frac{414}{1961}, -\frac{115}{1961}, \frac{690}{1961}, \frac{23}{1961})$ $+ \frac{23}{1961}\sqrt{1761}e^1 \otimes e_2 - \frac{23}{1961}\sqrt{1837}e^3 \otimes e_4$	{1378, 14678, 236, 24}
9531:33	$0, 0, 0, 0, \frac{15}{818}\sqrt{190}e^{12}, \frac{15}{818}\sqrt{346}e^{13}, \frac{15}{409}\sqrt{146}e^{15}, \frac{15}{409}\sqrt{130}e^{36},$ $\frac{15}{818}\sqrt{638}e^{17} + \frac{15}{409}\sqrt{7}e^{34}$	$(\frac{90}{409}, -\frac{135}{409}, -\frac{60}{409}, \frac{195}{409}, -\frac{45}{409}, \frac{30}{409}, \frac{45}{409}, -\frac{30}{409}, \frac{135}{409})$ $+ \frac{15}{409}\sqrt{421}e^1 \otimes e_2 + \frac{15}{818}\sqrt{1174}e^4 \otimes e_8$	{1678, 2346}
9531:33	$0, 0, 0, 0, \frac{312}{2549}\sqrt{13}e^{12}, \frac{195}{2549}\sqrt{6}e^{13}, \frac{78}{2549}\sqrt{43}e^{15}, \frac{78}{2549}\sqrt{165}e^{36},$ $\frac{39}{2549}\sqrt{526}e^{17} + \frac{234}{2549}\sqrt{17}e^{34}$	$(-\frac{507}{2549}, \frac{1170}{2549}, \frac{585}{2549}, -\frac{936}{2549}, \frac{663}{2549}, \frac{78}{2549}, \frac{156}{2549}, \frac{663}{2549}, -\frac{351}{2549})$ $+ \frac{117}{2549}\sqrt{214}e^3 \otimes e_4 + \frac{39}{2549}\sqrt{2506}e^2 \otimes e_9$	{13589, 145689}
9531:33	$0, 0, 0, 0, \frac{60}{3161}\sqrt{1510}e^{12}, \frac{30}{3161}\sqrt{5115}e^{13}, \frac{30}{3161}\sqrt{2545}e^{15},$ $\frac{60}{3161}\sqrt{330}e^{36}, \frac{600}{3161}\sqrt{7}e^{17} + \frac{1080}{3161}\sqrt{5}e^{34}$	$(-\frac{750}{3161}, \frac{1953}{3161}, \frac{495}{3161}, -\frac{792}{3161}, \frac{1203}{3161}, -\frac{255}{3161}, \frac{453}{3161}, \frac{240}{3161}, -\frac{297}{3161})$ $+ \frac{30}{3161}\sqrt{13285}e^2 \otimes e_9$	{1234678, 1278, 135689, 14589}
9531:33	$0, 0, 0, 0, \frac{19}{267}\sqrt{46}e^{12}, \frac{1}{801}\sqrt{124982}e^{13}, \frac{2}{801}\sqrt{32338}e^{15},$ $\frac{2}{801}\sqrt{81719}e^{36}, \frac{23}{801}\sqrt{114}e^{17} + \frac{8}{801}\sqrt{6555}e^{34}$	$(\frac{97}{801}, \frac{65}{801}, -\frac{205}{801}, \frac{187}{267}, \frac{18}{89}, -\frac{12}{89}, \frac{259}{801}, -\frac{313}{801}, \frac{4}{9})$ $+ \frac{1}{801}\sqrt{1137074}e^4 \otimes e_8$	{12479, 13456, 25678, 389}
9531:33	$0, 0, 0, 0, \frac{2}{1067}\sqrt{196606}e^{12}, \frac{8}{1067}\sqrt{2495}e^{13}, \frac{6}{1067}\sqrt{4990}e^{15},$ $\frac{2}{1067}\sqrt{180638}e^{36}, \frac{2}{1067}\sqrt{17465}e^{17} + \frac{2}{1067}\sqrt{9481}e^{34}$	$(-\frac{179}{1067}, \frac{673}{1067}, -\frac{73}{1067}, \frac{19}{97}, \frac{494}{1067}, -\frac{252}{1067}, \frac{315}{1067}, -\frac{325}{1067}, \frac{136}{1067})$ $+ \frac{2}{1067}\sqrt{437623}e^2 \otimes e_8$	{1234679, 1279, 3489, 689}
9531:33	$0, 0, 0, 0, \frac{4}{3133}\sqrt{147545}e^{12}, \frac{2}{3133}\sqrt{955835}e^{13}, \frac{4}{3133}\sqrt{255317}e^{15},$ $\frac{22}{3133}\sqrt{3849}e^{36}, \frac{6}{3133}\sqrt{162941}e^{17} + \frac{2}{3133}\sqrt{745423}e^{34}$	$(\frac{909}{3133}, -\frac{1657}{3133}, -\frac{19}{3133}, \frac{1089}{3133}, -\frac{748}{3133}, \frac{890}{3133}, \frac{161}{3133}, \frac{67}{241}, \frac{1070}{3133})$ $+ \frac{10}{3133}\sqrt{134715}e^1 \otimes e_2$	{1378, 14678, 236, 24}
9531:33	$0, 0, 0, 0, \frac{27}{2221}\sqrt{1181}e^{12}, \frac{513}{2221}\sqrt{3}e^{13}, \frac{27}{2221}\sqrt{518}e^{15}, \frac{324}{2221}e^{36},$ $\frac{27}{2221}\sqrt{341}e^{17} + \frac{108}{2221}\sqrt{105}e^{34}$	$(-\frac{243}{2221}, \frac{810}{2221}, -\frac{135}{2221}, \frac{216}{2221}, \frac{567}{2221}, -\frac{378}{2221}, \frac{324}{2221}, -\frac{513}{2221}, \frac{81}{2221})$ $+ \frac{27}{2221}\sqrt{1641}e^4 \otimes e_8 + \frac{27}{2221}\sqrt{2330}e^2 \otimes e_9$	{123467, 1459}
9531:34	$0, 0, 0, 0, \frac{51}{7573}\sqrt{298}e^{12}, \frac{153}{7573}\sqrt{626}e^{13}, \frac{204}{7573}\sqrt{38}e^{25},$ $\frac{102}{7573}\sqrt{870}e^{36}, \frac{204}{7573}\sqrt{203}e^{27} + \frac{1377}{7573}\sqrt{2}e^{34}$	$(\frac{1326}{7573}, -\frac{867}{7573}, \frac{663}{7573}, -\frac{1938}{7573}, \frac{459}{7573}, \frac{1989}{7573}, -\frac{408}{7573}, \frac{2652}{7573}, -\frac{1275}{7573})$ $+ \frac{102}{7573}\sqrt{1541}e^1 \otimes e_9 + \frac{51}{7573}\sqrt{7158}e^3 \otimes e_4$	{138, 1468}
9531:34	$0, 0, 0, 0, \frac{2}{1171}\sqrt{113505}e^{12}, \frac{2}{1171}\sqrt{112539}e^{13}, \frac{2}{1171}\sqrt{35259}e^{25},$ $\frac{6}{1171}\sqrt{322}e^{36}, \frac{2}{1171}\sqrt{112539}e^{27} + \frac{6}{1171}\sqrt{12719}e^{34}$	$(\frac{703}{1171}, -\frac{322}{1171}, -\frac{245}{1171}, -\frac{18}{1171}, \frac{381}{1171}, \frac{458}{1171}, \frac{59}{1171}, \frac{213}{1171}, -\frac{263}{1171})$ $+ \frac{28}{1171}\sqrt{2346}e^1 \otimes e_9$	{12347, 1267, 235689, 24589}
9531:34	$0, 0, 0, 0, \frac{8}{557}\sqrt{1218}e^{12}, \frac{3}{557}\sqrt{6090}e^{13}, \frac{2}{557}\sqrt{10353}e^{25}, \frac{16}{557}\sqrt{609}e^{36},$ $\frac{3}{557}\sqrt{6090}e^{27} + \frac{1}{557}\sqrt{210714}e^{34}$	$(\frac{83}{557}, \frac{49}{557}, -\frac{154}{557}, \frac{384}{557}, \frac{132}{557}, -\frac{71}{557}, \frac{181}{557}, -\frac{225}{557}, \frac{230}{557})$ $+ \frac{7}{557}\sqrt{11310}e^4 \otimes e_8$	{12479, 134567, 2568, 389}
9531:34	$0, 0, 0, 0, \frac{109}{1665}\sqrt{66}e^{12}, \frac{4}{1665}\sqrt{128293}e^{13}, \frac{44}{1665}\sqrt{109}e^{25},$ $\frac{1}{555}\sqrt{199034}e^{36}, \frac{1}{1665}\sqrt{932822}e^{27} + \frac{8}{555}\sqrt{2398}e^{34}$	$(-\frac{53}{333}, \frac{38}{555}, \frac{638}{1665}, -\frac{187}{555}, -\frac{151}{1665}, \frac{373}{1665}, -\frac{1}{45}, \frac{337}{555}, \frac{77}{1665})$ $+ \frac{1}{1665}\sqrt{3359598}e^3 \otimes e_4$	{138, 1468, 2367, 247}
9531:34	$0, 0, 0, 0, \frac{264}{8317}\sqrt{53}e^{12}, \frac{792}{8317}\sqrt{3}e^{13}, \frac{1419}{8317}\sqrt{2}e^{25},$ $\frac{99}{8317}\sqrt{446}e^{36}, \frac{33}{8317}\sqrt{4730}e^{27} + \frac{66}{8317}\sqrt{237}e^{34}$	$(\frac{1254}{8317}, -\frac{363}{8317}, -\frac{1353}{8317}, \frac{1518}{8317}, \frac{891}{8317}, -\frac{99}{8317}, \frac{528}{8317}, -\frac{1452}{8317}, \frac{165}{8317})$ $+ \frac{33}{8317}\sqrt{9006}e^2 \otimes e_8 + \frac{66}{8317}\sqrt{1385}e^1 \otimes e_9$	{234569, 259}
9531:34	$0, 0, 0, 0, \frac{4}{49}\sqrt{21}e^{12}, \frac{3}{49}\sqrt{14}e^{13}, \frac{2}{49}\sqrt{21}e^{25}, \frac{2}{49}\sqrt{42}e^{36},$ $\frac{3}{49}\sqrt{14}e^{27} + \frac{1}{49}\sqrt{546}e^{34}$	$(\frac{19}{49}, -\frac{1}{7}, -\frac{2}{49}, \frac{12}{49}, \frac{12}{49}, \frac{5}{49}, \frac{5}{49}, -\frac{9}{49}, -\frac{2}{49})$ $+ \frac{12}{49}\sqrt{7}e^1 \otimes e_9 + \frac{1}{49}\sqrt{798}e^4 \otimes e_8$	{12678, 2459}
9531:34	$0, 0, 0, 0, \frac{4}{119}\sqrt{139}e^{12}, \frac{1}{357}\sqrt{5838}e^{13}, \frac{1}{357}\sqrt{33082}e^{25}, \frac{4}{119}\sqrt{278}e^{36},$ $\frac{4}{357}\sqrt{2085}e^{27} + \frac{5}{357}\sqrt{834}e^{34}$	$(-\frac{11}{119}, \frac{46}{357}, -\frac{10}{119}, \frac{45}{119}, \frac{13}{357}, -\frac{3}{17}, \frac{59}{357}, -\frac{31}{119}, \frac{5}{17})$ $+ \frac{1}{119}\sqrt{9174}e^2 \otimes e_8$	{1345789, 156789, 234569, 259}
9531:35	$0, 0, 0, 0, \frac{6}{573}\sqrt{241}e^{12}, \frac{4}{573}\sqrt{5543}e^{13}, \frac{2}{573}\sqrt{31330}e^{15},$ $\frac{2}{573}\sqrt{21931}e^{14} + \frac{2}{573}\sqrt{482}e^{36}, \frac{2}{573}\sqrt{37837}e^{17}$	$(\frac{184}{573}, -\frac{298}{573}, \frac{1}{191}, \frac{2}{191}, -\frac{38}{191}, \frac{187}{573}, \frac{70}{573}, \frac{190}{573}, \frac{254}{573})$ $+ \frac{4}{573}\sqrt{28679}e^1 \otimes e_2$	{1378, 1678, 2, 236}
9531:35	$0, 0, 0, 0, \frac{86}{5149}\sqrt{210}e^{12}, \frac{86}{5149}\sqrt{419}e^{13}, \frac{86}{5149}\sqrt{61}e^{15},$ $\frac{43}{5149}\sqrt{1198}e^{14} + \frac{86}{5149}\sqrt{958}e^{36}, \frac{43}{5149}\sqrt{1798}e^{17}$	$(-\frac{1075}{5149}, \frac{1978}{5149}, \frac{602}{5149}, \frac{1204}{5149}, \frac{903}{5149}, -\frac{473}{5149}, -\frac{172}{5149}, \frac{129}{5149}, -\frac{1247}{5149})$ $+ \frac{43}{5149}\sqrt{3586}e^2 \otimes e_8 + \frac{43}{5149}\sqrt{5502}e^3 \otimes e_9$	{145689, 24579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:35	$0, 0, 0, 0, \frac{1}{938}\sqrt{470}e^{12}, \frac{1}{469}\sqrt{210}e^{13}, \frac{15}{469}e^{15},$ $\frac{1}{469}\sqrt{357}e^{14} + \frac{1}{938}\sqrt{1142}e^{36}, \frac{1}{938}\sqrt{1290}e^{17}$	$(\frac{5}{469}, -\frac{2}{67}, \frac{2}{469}, \frac{4}{469}, -\frac{9}{469}, \frac{1}{67}, -\frac{4}{469}, \frac{9}{469}, \frac{1}{469})$ $+ \frac{1}{469}\sqrt{410}e^3 \otimes e_9 + \frac{1}{938}\sqrt{1754}e^1 \otimes e_4$	{24579, 346}
9531:35	$0, 0, 0, 0, \frac{15}{34}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{1}{34}\sqrt{190}e^{15},$ $\frac{1}{34}\sqrt{130}e^{14} + \frac{1}{34}\sqrt{145}e^{36}, \frac{1}{34}\sqrt{115}e^{17}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{55}e^2 \otimes e_8 + \frac{5}{34}\sqrt{15}e^1 \otimes e_4$	{2345679, 24579}
9531:35	$0, 0, 0, 0, \frac{74}{7201}\sqrt{461}e^{12}, \frac{185}{7201}\sqrt{154}e^{13}, \frac{444}{7201}\sqrt{11}e^{15},$ $\frac{111}{7201}\sqrt{170}e^{14} + \frac{259}{7201}\sqrt{70}e^{36}, \frac{37}{7201}\sqrt{4642}e^{17}$	$(\frac{185}{7201}, -\frac{1184}{7201}, \frac{740}{7201}, \frac{1480}{7201}, -\frac{999}{7201}, \frac{925}{7201}, -\frac{814}{7201}, \frac{1665}{7201}, -\frac{629}{7201})$ $+ \frac{37}{7201}\sqrt{5642}e^1 \otimes e_2 + \frac{37}{7201}\sqrt{7330}e^3 \otimes e_9$	{13478, 2346}
9531:35	$0, 0, 0, 0, \frac{30}{947}\sqrt{581}e^{12}, \frac{4}{947}\sqrt{9545}e^{13}, \frac{2}{947}\sqrt{10790}e^{15},$ $\frac{2}{947}\sqrt{71795}e^{14} + \frac{2}{947}\sqrt{107070}e^{36}, \frac{2}{947}\sqrt{32785}e^{17}$	$(-\frac{184}{947}, \frac{632}{947}, -\frac{7}{947}, -\frac{14}{947}, \frac{448}{947}, -\frac{191}{947}, \frac{264}{947}, -\frac{198}{947}, \frac{80}{947})$ $+ \frac{4}{947}\sqrt{81755}e^2 \otimes e_8$	{1234679, 12479, 3489, 4689}
9531:35	$0, 0, 0, 0, \frac{6}{179}\sqrt{589}e^{12}, \frac{57}{179}\sqrt{3}e^{13}, \frac{3}{179}\sqrt{1273}e^{15},$ $\frac{27}{179}\sqrt{19}e^{14} + \frac{12}{179}\sqrt{57}e^{36}, \frac{6}{179}\sqrt{589}e^{17}$	$(-\frac{57}{179}, \frac{117}{179}, \frac{36}{179}, \frac{72}{179}, \frac{60}{179}, -\frac{21}{179}, \frac{3}{179}, \frac{15}{179}, -\frac{54}{179})$ $+ \frac{3}{179}\sqrt{5605}e^2 \otimes e_9$	{12367, 127, 13569, 159}
9531:35	$0, 0, 0, 0, \frac{12}{37}\sqrt{3}e^{12}, \frac{12}{37}e^{13}, \frac{24}{37}e^{15}, \frac{6}{37}\sqrt{15}e^{14} + \frac{6}{37}\sqrt{7}e^{36},$ $\frac{12}{37}\sqrt{3}e^{17}$	$(\frac{8}{37}, -\frac{6}{37}, -\frac{5}{37}, -\frac{10}{37}, \frac{2}{37}, \frac{3}{37}, \frac{10}{37}, -\frac{2}{37}, \frac{18}{37})$ $+ \frac{6}{37}\sqrt{31}e^1 \otimes e_4$	{2345679, 24579, 346, 4}
9531:35	$0, 0, 0, 0, \frac{2}{2845}\sqrt{169538}e^{12}, \frac{2}{2845}\sqrt{771974}e^{13}, \frac{16}{2845}\sqrt{1646}e^{15},$ $\frac{2}{2845}\sqrt{734939}e^{14} + \frac{2}{2845}\sqrt{1025458}e^{36}, \frac{2}{2845}\sqrt{824646}e^{17}$	$(-\frac{108}{569}, \frac{127}{569}, \frac{661}{2845}, \frac{1322}{2845}, \frac{19}{569}, \frac{121}{2845}, -\frac{89}{569}, \frac{782}{2845}, -\frac{197}{569})$ $+ \frac{8}{2845}\sqrt{124273}e^3 \otimes e_9$	{1245689, 13478, 2346, 4579}
9531:35	$0, 0, 0, 0, \frac{2}{533}\sqrt{18827}e^{12}, \frac{4}{533}\sqrt{4215}e^{13}, \frac{2}{533}\sqrt{3934}e^{15},$ $\frac{2}{533}\sqrt{51423}e^{14} + \frac{2}{533}\sqrt{9554}e^{36}, \frac{2}{533}\sqrt{44679}e^{17}$	$(-\frac{120}{533}, \frac{148}{533}, \frac{175}{533}, \frac{350}{533}, \frac{28}{533}, \frac{55}{533}, -\frac{92}{533}, \frac{230}{533}, -\frac{212}{533})$ $+ \frac{4}{533}\sqrt{31753}e^4 \otimes e_9$	{13689, 189, 2379, 2679}
9531:35	$0, 0, 0, 0, \frac{1}{17}\sqrt{29}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{1}{17}\sqrt{15}e^{15},$ $\frac{1}{17}\sqrt{47}e^{14} + \frac{1}{17}\sqrt{11}e^{36}, \frac{1}{17}e^{17}$	$(\frac{1}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{17})$ $+ \frac{1}{17}\sqrt{73}e^4 \otimes e_9 + \frac{1}{17}\sqrt{83}e^1 \otimes e_2$	{1347, 1467, 23468, 248}
9531:35	$0, 0, 0, 0, \frac{1}{17}\sqrt{29}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{1}{17}\sqrt{15}e^{15},$ $\frac{1}{17}\sqrt{47}e^{14} + \frac{1}{17}\sqrt{11}e^{36}, \frac{1}{17}e^{17}$	$(\frac{1}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{17})$ $- \frac{1}{17}\sqrt{73}e^4 \otimes e_9 + \frac{1}{17}\sqrt{83}e^1 \otimes e_2$	{1347, 1467, 23468, 248}
9531:35	$0, 0, 0, 0, \frac{4}{47}\sqrt{6}e^{12}, \frac{1}{47}\sqrt{3}e^{13}, \frac{1}{47}\sqrt{93}e^{15},$ $\frac{3}{47}\sqrt{11}e^{14} + \frac{1}{47}\sqrt{42}e^{36}, \frac{1}{47}\sqrt{6}e^{17}$	$(-\frac{1}{47}, \frac{6}{47}, -\frac{2}{47}, -\frac{4}{47}, \frac{5}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{5}{47}, \frac{3}{47})$ $- \frac{1}{47}\sqrt{105}e^2 \otimes e_9 + \frac{5}{47}\sqrt{6}e^1 \otimes e_4$	{12367, 127, 13569, 159}
9531:35	$0, 0, 0, 0, \frac{4}{47}\sqrt{6}e^{12}, \frac{1}{47}\sqrt{3}e^{13}, \frac{1}{47}\sqrt{93}e^{15},$ $\frac{3}{47}\sqrt{11}e^{14} + \frac{1}{47}\sqrt{42}e^{36}, \frac{1}{47}\sqrt{6}e^{17}$	$(-\frac{1}{47}, \frac{6}{47}, -\frac{2}{47}, -\frac{4}{47}, \frac{5}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{5}{47}, \frac{3}{47})$ $+ \frac{1}{47}\sqrt{105}e^2 \otimes e_9 + \frac{5}{47}\sqrt{6}e^1 \otimes e_4$	{12367, 127, 13569, 159}
9531:36	$0, 0, 0, 0, \frac{1}{40}\sqrt{987}e^{12}, \frac{9}{40}\sqrt{14}e^{13}, \frac{1}{20}\sqrt{210}e^{15},$ $\frac{9}{40}\sqrt{14}e^{16} + \frac{1}{20}\sqrt{210}e^{34}, \frac{1}{40}\sqrt{987}e^{17}$	$(-\frac{7}{40}, \frac{33}{80}, \frac{13}{40}, -\frac{7}{20}, \frac{19}{80}, \frac{3}{20}, \frac{1}{16}, -\frac{1}{40}, -\frac{9}{80})$ $+ \frac{1}{20}\sqrt{357}e^2 \otimes e_9$	{123678, 127, 135689, 159}
9531:36	$0, 0, 0, 0, \frac{80}{469}\sqrt{3}e^{12}, \frac{32}{469}\sqrt{47}e^{13}, \frac{8}{469}\sqrt{538}e^{15},$ $\frac{32}{469}\sqrt{47}e^{16} + \frac{8}{469}\sqrt{814}e^{34}, \frac{8}{469}\sqrt{714}e^{17}$	$(\frac{31}{469}, -\frac{95}{469}, \frac{24}{469}, \frac{62}{469}, -\frac{64}{469}, \frac{55}{469}, -\frac{33}{469}, \frac{86}{469}, -\frac{2}{469})$ $+ \frac{48}{469}\sqrt{23}e^4 \otimes e_9$	{135689, 159, 235789, 25679}
9531:36	$0, 0, 0, 0, \frac{84}{485}\sqrt{23}e^{12}, \frac{28}{485}\sqrt{138}e^{13}, \frac{28}{97}\sqrt{3}e^{15},$ $\frac{56}{485}e^{16} + \frac{28}{485}\sqrt{209}e^{34}, \frac{28}{485}\sqrt{6}e^{17}$	$(-\frac{63}{485}, \frac{278}{485}, \frac{12}{485}, -\frac{126}{485}, \frac{43}{97}, -\frac{51}{485}, \frac{152}{485}, -\frac{114}{485}, \frac{89}{485})$ $+ \frac{28}{485}\sqrt{402}e^2 \otimes e_8$	{127, 135689, 25679, 38}
9531:36	$0, 0, 0, 0, \frac{1}{7}\sqrt{51}e^{12}, \frac{6}{7}\sqrt{2}e^{13}, \frac{4}{7}\sqrt{3}e^{15},$ $\frac{3}{7}\sqrt{7}e^{16} + \frac{4}{7}\sqrt{3}e^{34}, \frac{1}{7}\sqrt{51}e^{17}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, \frac{1}{7}, -\frac{1}{7}, 0)$ $+ \frac{2}{7}\sqrt{15}e^2 \otimes e_9 + \frac{3}{7}\sqrt{3}e^3 \otimes e_4$	{127, 159}
9531:36	$0, 0, 0, 0, \frac{28}{485}\sqrt{6}e^{12}, \frac{56}{485}e^{13}, \frac{28}{97}\sqrt{3}e^{15},$ $\frac{28}{485}\sqrt{138}e^{16} + \frac{28}{485}\sqrt{209}e^{34}, \frac{28}{485}\sqrt{23}e^{17}$	$(-\frac{63}{485}, \frac{77}{485}, \frac{56}{97}, -\frac{126}{485}, \frac{14}{97}, \frac{217}{485}, -\frac{49}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402}e^3 \otimes e_9$	{123678, 159, 25679, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:36	$0, 0, 0, 0, \frac{11}{889}\sqrt{687}e^{12}, \frac{22}{889}\sqrt{322}e^{13}, \frac{22}{889}\sqrt{109}e^{15},$ $\frac{11}{889}\sqrt{1033}e^{16} + \frac{66}{889}\sqrt{21}e^{34}, \frac{33}{889}\sqrt{23}e^{17}$	$(\frac{11}{889}, -\frac{110}{889}, \frac{143}{889}, \frac{22}{889}, -\frac{99}{889}, \frac{22}{127}, -\frac{88}{889}, \frac{165}{889}, -\frac{11}{127})$ $+ \frac{33}{889}\sqrt{85}e^3 \otimes e_4 + \frac{88}{889}\sqrt{15}e^1 \otimes e_2$	{146, 247}
9531:36	$0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{2}{5}\sqrt{10}e^{13}, \frac{2}{5}\sqrt{5}e^{15}, e^{16} + \frac{2}{5}\sqrt{5}e^{34},$ $\frac{1}{5}\sqrt{15}e^{17}$	$(-\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, -\frac{2}{5}, \frac{1}{5}, \frac{2}{5}, 0, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{2}{5}\sqrt{5}e^3 \otimes e_4$	{1245679, 146, 247, 459}
9531:36	$0, 0, 0, 0, \frac{17}{481}\sqrt{105}e^{12}, \frac{34}{481}\sqrt{46}e^{13}, \frac{170}{481}e^{15},$ $\frac{17}{481}\sqrt{217}e^{16} + \frac{34}{481}\sqrt{15}e^{34}, \frac{51}{481}\sqrt{15}e^{17}$	$(-\frac{85}{481}, \frac{238}{481}, \frac{119}{481}, -\frac{170}{481}, \frac{153}{481}, \frac{34}{481}, \frac{68}{481}, -\frac{51}{481}, -\frac{17}{481})$ $+ \frac{17}{481}\sqrt{381}e^3 \otimes e_4 + \frac{68}{481}\sqrt{30}e^2 \otimes e_8$	{135789, 3678}
9531:36	$0, 0, 0, 0, \frac{40}{457}\sqrt{21}e^{12}, \frac{40}{457}\sqrt{14}e^{13}, \frac{5}{457}\sqrt{854}e^{15},$ $\frac{40}{457}\sqrt{14}e^{16} + \frac{5}{457}\sqrt{2730}e^{34}, \frac{40}{457}\sqrt{21}e^{17}$	$(-\frac{70}{457}, \frac{160}{457}, \frac{125}{457}, -\frac{140}{457}, \frac{90}{457}, \frac{55}{457}, \frac{20}{457}, -\frac{15}{457}, -\frac{50}{457})$ $+ \frac{5}{457}\sqrt{2814}e^2 \otimes e_8 + \frac{5}{457}\sqrt{2814}e^3 \otimes e_9$	{25679, 38}
9531:36	$0, 0, 0, 0, \frac{4}{89}\sqrt{210}e^{12}, \frac{4}{89}\sqrt{322}e^{13}, \frac{4}{89}\sqrt{7}e^{15},$ $\frac{4}{89}\sqrt{322}e^{16} + \frac{12}{89}\sqrt{21}e^{34}, \frac{12}{89}\sqrt{7}e^{17}$	$(\frac{19}{89}, -\frac{37}{89}, -\frac{8}{89}, \frac{38}{89}, -\frac{18}{89}, \frac{11}{89}, \frac{1}{89}, \frac{30}{89}, \frac{20}{89})$ $+ \frac{4}{89}\sqrt{546}e^1 \otimes e_2$	{13489, 1469, 2346789, 2479}
9531:36	$0, 0, 0, 0, \frac{6}{2821}\sqrt{55}e^{12}, \frac{2}{2821}\sqrt{937}e^{13}, \frac{4}{2821}\sqrt{157}e^{15},$ $\frac{3}{2821}\sqrt{362}e^{16} + \frac{2}{2821}\sqrt{1054}e^{34}, \frac{1}{2821}\sqrt{3066}e^{17}$	$(-\frac{11}{2821}, \frac{10}{2821}, \frac{1}{91}, -\frac{22}{2821}, -\frac{1}{2821}, \frac{20}{2821}, -\frac{12}{2821}, \frac{9}{2821}, -\frac{23}{2821})$ $+ \frac{1}{2821}\sqrt{3642}e^4 \otimes e_9 + \frac{1}{403}\sqrt{30}e^2 \otimes e_8$	{135689, 25679}
9531:37	$0, 0, 0, 0, \frac{4}{3377}\sqrt{735258}e^{12}, \frac{16}{3377}\sqrt{10385}e^{13}, \frac{8}{3377}\sqrt{39463}e^{15},$ $\frac{2}{3377}\sqrt{795491}e^{24} + \frac{10}{3377}\sqrt{27001}e^{36}, \frac{4}{3377}\sqrt{87234}e^{17}$	$(-\frac{640}{3377}, \frac{2344}{3377}, \frac{587}{3377}, -\frac{1810}{3377}, \frac{1704}{3377}, -\frac{53}{3377}, \frac{1064}{3377}, \frac{534}{3377}, \frac{424}{3377})$ $+ \frac{2}{3377}\sqrt{5784445}e^2 \otimes e_4$	{123679, 1279, 13456, 145}
9531:37	$0, 0, 0, 0, \frac{18}{5311}\sqrt{871}e^{12}, \frac{54}{5311}\sqrt{3}e^{13}, \frac{18}{5311}\sqrt{1153}e^{15},$ $\frac{36}{5311}\sqrt{309}e^{24} + \frac{36}{5311}\sqrt{183}e^{36}, \frac{18}{5311}\sqrt{1489}e^{17}$	$(-\frac{54}{5311}, \frac{396}{5311}, -\frac{81}{5311}, -\frac{612}{5311}, \frac{342}{5311}, -\frac{135}{5311}, \frac{288}{5311}, -\frac{216}{5311}, \frac{234}{5311})$ $- \frac{108}{5311}\sqrt{78}e^1 \otimes e_8 + \frac{18}{5311}\sqrt{1879}e^2 \otimes e_9$	{123467, 1247, 13569, 159}
9531:37	$0, 0, 0, 0, \frac{18}{5311}\sqrt{871}e^{12}, \frac{54}{5311}\sqrt{3}e^{13}, \frac{18}{5311}\sqrt{1153}e^{15},$ $\frac{36}{5311}\sqrt{309}e^{24} + \frac{36}{5311}\sqrt{183}e^{36}, \frac{18}{5311}\sqrt{1489}e^{17}$	$(-\frac{54}{5311}, \frac{396}{5311}, -\frac{81}{5311}, -\frac{612}{5311}, \frac{342}{5311}, -\frac{135}{5311}, \frac{288}{5311}, \frac{216}{5311}, \frac{234}{5311})$ $+ \frac{108}{5311}\sqrt{78}e^1 \otimes e_8 + \frac{18}{5311}\sqrt{1879}e^2 \otimes e_9$	{123467, 1247, 13569, 159}
9531:37	$0, 0, 0, 0, \frac{63}{7061}\sqrt{842}e^{12}, \frac{63}{7061}\sqrt{2290}e^{13}, \frac{378}{7061}\sqrt{5}e^{15},$ $\frac{126}{7061}\sqrt{219}e^{24} + \frac{252}{7061}\sqrt{221}e^{36}, \frac{630}{7061}\sqrt{22}e^{17}$	$(-\frac{1701}{7061}, \frac{3087}{7061}, \frac{1953}{7061}, -\frac{882}{7061}, \frac{1386}{7061}, \frac{252}{7061}, -\frac{315}{7061}, \frac{2205}{7061}, -\frac{2016}{7061})$ $+ \frac{63}{7061}\sqrt{4390}e^2 \otimes e_4 + \frac{63}{7061}\sqrt{7982}e^3 \otimes e_9$	{2356, 479}
9531:37	$0, 0, 0, 0, \frac{126}{3565}\sqrt{247}e^{12}, \frac{1026}{3565}\sqrt{3}e^{13}, \frac{18}{3565}\sqrt{7201}e^{15},$ $\frac{36}{3565}\sqrt{4845}e^{24} + \frac{36}{3565}\sqrt{627}e^{36}, \frac{18}{3565}\sqrt{21793}e^{17}$	$(-\frac{1026}{3565}, \frac{1908}{3565}, \frac{1269}{3565}, -\frac{396}{3565}, \frac{882}{3565}, \frac{243}{3565}, -\frac{144}{3565}, \frac{1512}{3565}, -\frac{234}{713})$ $+ \frac{18}{3565}\sqrt{55879}e^2 \otimes e_9$	{123678, 1278, 1345689, 14589}
9531:37	$0, 0, 0, 0, \frac{4}{3419}\sqrt{270155}e^{12}, \frac{4}{3419}\sqrt{42245}e^{13}, \frac{4}{3419}\sqrt{77035}e^{15},$ $\frac{4}{3419}\sqrt{532855}e^{24} + \frac{4}{3419}\sqrt{114665}e^{36}, \frac{4}{3419}\sqrt{508715}e^{17}$	$(-\frac{238}{3419}, -\frac{16}{263}, \frac{974}{3419}, \frac{1918}{3419}, -\frac{446}{3419}, \frac{736}{3419}, -\frac{684}{3419}, \frac{1710}{3419}, -\frac{922}{3419})$ $- \frac{4}{3419}\sqrt{1024885}e^4 \otimes e_9$	{1235689, 12589, 134678, 1478, 234, 246, 3579, 5679}
9531:37	$0, 0, 0, 0, \frac{4}{3419}\sqrt{270155}e^{12}, \frac{4}{3419}\sqrt{42245}e^{13}, \frac{4}{3419}\sqrt{77035}e^{15},$ $\frac{4}{3419}\sqrt{532855}e^{24} + \frac{4}{3419}\sqrt{114665}e^{36}, \frac{4}{3419}\sqrt{508715}e^{17}$	$(-\frac{238}{3419}, -\frac{16}{263}, \frac{974}{3419}, \frac{1918}{3419}, -\frac{446}{3419}, \frac{736}{3419}, -\frac{684}{3419}, \frac{1710}{3419}, -\frac{922}{3419})$ $+ \frac{4}{3419}\sqrt{1024885}e^4 \otimes e_9$	{1235689, 12589, 134678, 1478, 234, 246, 3579, 5679}
9531:37	$0, 0, 0, 0, \frac{2}{3529}\sqrt{627843}e^{12}, \frac{4}{3529}\sqrt{353245}e^{13}, \frac{8}{3529}\sqrt{13330}e^{15},$ $\frac{2}{3529}\sqrt{62651}e^{24} + \frac{4}{3529}\sqrt{397234}e^{36}, \frac{28}{3529}\sqrt{6665}e^{17}$	$(-\frac{829}{3529}, \frac{1098}{3529}, \frac{1277}{3529}, \frac{627}{3529}, \frac{269}{3529}, \frac{448}{3529}, -\frac{560}{3529}, \frac{1725}{3529}, -\frac{1389}{3529})$ $+ \frac{2}{3529}\sqrt{3931017}e^3 \otimes e_9$	{1234578, 1689, 279, 3456}
9531:38	$0, 0, 0, 0, \frac{15}{1691}\sqrt{14}e^{12}, \frac{3}{1691}\sqrt{2830}e^{13}, \frac{15}{1691}\sqrt{130}e^{25},$ $\frac{15}{1691}\sqrt{14}e^{14} + \frac{12}{1691}\sqrt{345}e^{36}, \frac{12}{1691}\sqrt{345}e^{27}$	$(-\frac{150}{1691}, \frac{63}{1691}, \frac{84}{1691}, \frac{168}{1691}, -\frac{87}{1691}, -\frac{66}{1691}, -\frac{24}{1691}, \frac{18}{1691}, \frac{39}{1691})$ $+ \frac{6}{1691}\sqrt{1790}e^3 \otimes e_9 + \frac{6}{1691}\sqrt{1930}e^2 \otimes e_8$	{156789, 259}
9531:38	$0, 0, 0, 0, \frac{6}{347}\sqrt{390}e^{12}, \frac{9}{347}\sqrt{530}e^{13}, \frac{3}{347}\sqrt{1290}e^{25},$ $\frac{45}{347}\sqrt{22}e^{14} + \frac{18}{347}\sqrt{10}e^{36}, \frac{6}{347}\sqrt{1605}e^{27}$	$(\frac{159}{347}, -\frac{90}{347}, -\frac{9}{347}, -\frac{18}{347}, \frac{69}{347}, \frac{150}{347}, -\frac{21}{347}, \frac{141}{347}, -\frac{111}{347})$ $+ \frac{15}{347}\sqrt{678}e^1 \otimes e_9$	{12347, 12467, 2345689, 24589}
9531:38	$0, 0, 0, 0, \frac{1}{429}\sqrt{28362}e^{12}, \frac{1}{429}\sqrt{10758}e^{13}, \frac{1}{429}\sqrt{46618}e^{25},$ $\frac{1}{429}\sqrt{28362}e^{14} + \frac{2}{429}\sqrt{9291}e^{36}, \frac{2}{429}\sqrt{9291}e^{27}$	$(-\frac{2}{13}, \frac{85}{429}, -\frac{2}{143}, -\frac{4}{143}, \frac{19}{429}, -\frac{24}{143}, \frac{8}{33}, -\frac{2}{11}, \frac{63}{143})$ $+ \frac{2}{429}\sqrt{28851}e^2 \otimes e_8$	{123467, 1247, 348, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:38	$0, 0, 0, 0, \frac{92}{4229}\sqrt{255}e^{12}, \frac{92}{4229}\sqrt{23}e^{13}, \frac{92}{4229}\sqrt{262}e^{25},$ $\frac{138}{4229}\sqrt{41}e^{14} + \frac{230}{4229}\sqrt{37}e^{36}, \frac{92}{4229}\sqrt{177}e^{27}$	$(\frac{184}{4229}, \frac{368}{4229}, -\frac{437}{4229}, -\frac{874}{4229}, \frac{552}{4229}, -\frac{253}{4229}, \frac{920}{4229}, -\frac{690}{4229}, \frac{1288}{4229})$ $+ \frac{46}{4229}\sqrt{1085}e^1 \otimes e_4 + \frac{92}{4229}\sqrt{641}e^2 \otimes e_8$	{135789, 156789}
9531:38	$0, 0, 0, 0, \frac{4}{1307}\sqrt{69530}e^{12}, \frac{8}{3921}\sqrt{145195}e^{13}, \frac{4}{3921}\sqrt{118610}e^{25},$ $\frac{2}{1307}\sqrt{161555}e^{14} + \frac{2}{3921}\sqrt{959105}e^{36}, \frac{8}{3921}\sqrt{22495}e^{27}$	$(\frac{2272}{3921}, -\frac{584}{3921}, -\frac{303}{1307}, -\frac{606}{1307}, \frac{1688}{3921}, \frac{1363}{3921}, \frac{368}{1307}, \frac{454}{3921}, \frac{520}{3921})$ $+ \frac{10}{3921}\sqrt{263805}e^1 \otimes e_4$	{23456, 245, 3469, 49}
9531:38	$0, 0, 0, 0, \frac{18}{2893}\sqrt{221}e^{12}, \frac{27}{2893}\sqrt{22}e^{13}, \frac{36}{2893}\sqrt{77}e^{25},$ $\frac{9}{2893}\sqrt{1302}e^{14} + \frac{9}{2893}\sqrt{798}e^{36}, \frac{9}{2893}\sqrt{1634}e^{27}$	$(\frac{18}{263}, -\frac{27}{2893}, -\frac{153}{2893}, -\frac{306}{2893}, \frac{171}{2893}, \frac{45}{2893}, \frac{144}{2893}, -\frac{108}{2893}, \frac{117}{2893})$ $+ \frac{27}{2893}\sqrt{334}e^2 \otimes e_8 + \frac{9}{2893}\sqrt{2090}e^1 \otimes e_9$	{23569, 259}
9531:38	$0, 0, 0, 0, \frac{1}{91}\sqrt{35}e^{12}, \frac{1}{13}\sqrt{2}e^{13}, \frac{1}{91}\sqrt{273}e^{25},$ $\frac{1}{91}\sqrt{399}e^{14} + \frac{2}{91}\sqrt{35}e^{36}, \frac{1}{91}\sqrt{413}e^{27}$	$(-\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, 0, 0, \frac{1}{13})$ $- \frac{1}{91}\sqrt{455}e^4 \otimes e_9 + \frac{1}{91}\sqrt{679}e^2 \otimes e_8$	{123467, 1247, 348, 468}
9531:38	$0, 0, 0, 0, \frac{1}{91}\sqrt{35}e^{12}, \frac{1}{13}\sqrt{2}e^{13}, \frac{1}{91}\sqrt{273}e^{25},$ $\frac{1}{91}\sqrt{399}e^{14} + \frac{2}{91}\sqrt{35}e^{36}, \frac{1}{91}\sqrt{413}e^{27}$	$(-\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, 0, 0, \frac{1}{13})$ $+ \frac{1}{91}\sqrt{455}e^4 \otimes e_9 + \frac{1}{91}\sqrt{679}e^2 \otimes e_8$	{123467, 1247, 348, 468}
9531:38	$0, 0, 0, 0, \frac{145}{1917}\sqrt{66}e^{12}, \frac{1}{1917}\sqrt{137170}e^{13}, \frac{11}{1917}\sqrt{290}e^{25},$ $\frac{1}{1917}\sqrt{2746590}e^{14} + \frac{2}{1917}\sqrt{149930}e^{36}, \frac{28}{1917}\sqrt{3190}e^{27}$	$(-\frac{86}{1917}, -\frac{151}{1917}, \frac{176}{639}, \frac{352}{639}, -\frac{79}{639}, \frac{442}{1917}, -\frac{388}{1917}, \frac{970}{1917}, -\frac{539}{1917})$ $+ \frac{10}{213}\sqrt{638}e^4 \otimes e_9$	{1235689, 12589, 3579, 5679}
9531:38	$0, 0, 0, 0, \frac{1}{405}\sqrt{25806}e^{12}, \frac{1}{405}\sqrt{67694}e^{13}, \frac{1}{405}\sqrt{7854}e^{25},$ $\frac{1}{405}\sqrt{25806}e^{14} + \frac{2}{405}\sqrt{14773}e^{36}, \frac{2}{405}\sqrt{14773}e^{27}$	$(\frac{4}{81}, -\frac{47}{405}, \frac{22}{135}, \frac{44}{135}, -\frac{1}{15}, \frac{86}{405}, -\frac{74}{405}, \frac{152}{405}, -\frac{121}{405})$ $+ \frac{2}{135}\sqrt{3553}e^3 \otimes e_9$	{1245689, 1348, 23467, 4579}
9531:38	$0, 0, 0, 0, \frac{94}{9565}\sqrt{23}e^{12}, \frac{47}{9565}\sqrt{7634}e^{13}, \frac{376}{9565}\sqrt{11}e^{25},$ $\frac{188}{9565}\sqrt{230}e^{14} + \frac{47}{9565}\sqrt{5610}e^{36}, \frac{47}{9565}\sqrt{4414}e^{27}$	$(\frac{423}{1913}, -\frac{1457}{9565}, -\frac{47}{9565}, -\frac{94}{9565}, \frac{658}{9565}, \frac{2068}{9565}, -\frac{799}{9565}, \frac{2021}{9565}, -\frac{2256}{9565})$ $+ \frac{47}{9565}\sqrt{11038}e^3 \otimes e_9 + \frac{94}{9565}\sqrt{1495}e^1 \otimes e_4$	{23467, 4579}
9531:39	$0, 0, 0, 0, \frac{76}{9919}\sqrt{194}e^{12}, \frac{19}{9919}\sqrt{2730}e^{13}, \frac{38}{9919}\sqrt{1090}e^{25},$ $\frac{38}{9919}\sqrt{230}e^{16} + \frac{76}{9919}\sqrt{451}e^{34}, \frac{19}{9919}\sqrt{5578}e^{27}$	$(\frac{418}{9919}, \frac{19}{9919}, -\frac{1178}{9919}, \frac{836}{9919}, \frac{437}{9919}, -\frac{760}{9919}, \frac{456}{9919}, \frac{342}{9919}, \frac{475}{9919})$ $+ \frac{19}{9919}\sqrt{6758}e^4 \otimes e_9 + \frac{95}{9919}\sqrt{438}e^2 \otimes e_8$	{123467, 468}
9531:39	$0, 0, 0, 0, \frac{9}{7651}\sqrt{1562}e^{12}, \frac{270}{7651}\sqrt{2}e^{13}, \frac{18}{7651}\sqrt{761}e^{25},$ $\frac{18}{7651}\sqrt{1059}e^{16} + \frac{18}{7651}\sqrt{258}e^{34}, \frac{18}{7651}\sqrt{1145}e^{27}$	$(\frac{198}{7651}, -\frac{27}{7651}, -\frac{72}{1093}, \frac{396}{7651}, \frac{171}{7651}, -\frac{306}{7651}, \frac{144}{7651}, -\frac{108}{7651}, \frac{117}{7651})$ $+ \frac{54}{7651}\sqrt{203}e^2 \otimes e_8 + \frac{9}{7651}\sqrt{6170}e^1 \otimes e_9$	{1267, 259}
9531:39	$0, 0, 0, 0, \frac{43}{5671}\sqrt{2046}e^{12}, \frac{215}{5671}\sqrt{22}e^{13}, \frac{86}{5671}\sqrt{814}e^{25},$ $\frac{43}{5671}\sqrt{1606}e^{16} + \frac{946}{5671}\sqrt{6}e^{34}, \frac{129}{5671}\sqrt{286}e^{27}$	$(-\frac{688}{5671}, \frac{946}{5671}, \frac{473}{5671}, -\frac{1376}{5671}, \frac{258}{5671}, -\frac{215}{5671}, \frac{1204}{5671}, -\frac{903}{5671}, \frac{2150}{5671})$ $+ \frac{43}{5671}\sqrt{1574}e^3 \otimes e_4 + \frac{43}{5671}\sqrt{8042}e^2 \otimes e_8$	{145789, 468}
9531:39	$0, 0, 0, 0, \frac{2}{3597}\sqrt{574977}e^{12}, \frac{2}{1199}\sqrt{35255}e^{13}, \frac{2}{3597}\sqrt{768559}e^{25},$ $\frac{2}{3597}\sqrt{321141}e^{16} + \frac{2}{1199}\sqrt{85253}e^{34}, \frac{2}{3597}\sqrt{641}e^{27}$	$(-\frac{98}{1199}, \frac{601}{3597}, -\frac{31}{1199}, -\frac{196}{1199}, \frac{307}{3597}, -\frac{129}{1199}, \frac{908}{3597}, -\frac{227}{1199}, \frac{503}{1199})$ $+ \frac{4}{1199}\sqrt{53203}e^2 \otimes e_8$	{123467, 145789, 23459, 468}
9531:39	$0, 0, 0, 0, \frac{4}{3303}\sqrt{297546}e^{12}, \frac{8}{3303}\sqrt{179215}e^{13}, \frac{4}{3303}\sqrt{99673}e^{25},$ $\frac{4}{3303}\sqrt{275942}e^{16} + \frac{4}{3303}\sqrt{231261}e^{34}, \frac{4}{367}\sqrt{2455}e^{27}$	$(-\frac{269}{1101}, \frac{607}{3303}, \frac{2314}{3303}, -\frac{538}{1101}, -\frac{200}{3303}, \frac{1507}{3303}, \frac{407}{3303}, \frac{700}{3303}, \frac{338}{1101})$ $+ \frac{4}{3303}\sqrt{1322754}e^3 \otimes e_4$	{124569, 146, 247, 4579}
9531:39	$0, 0, 0, 0, \frac{4}{1117}\sqrt{1834}e^{12}, \frac{4}{1117}\sqrt{9170}e^{13}, \frac{4}{1117}\sqrt{8515}e^{25},$ $\frac{4}{1117}\sqrt{9170}e^{16} + \frac{4}{1117}\sqrt{54889}e^{34}, \frac{4}{1117}\sqrt{49387}e^{27}$	$(\frac{349}{1117}, -\frac{233}{1117}, -\frac{154}{1117}, \frac{698}{1117}, \frac{116}{1117}, \frac{195}{1117}, -\frac{117}{1117}, \frac{544}{1117}, -\frac{350}{1117})$ $+ \frac{4}{1117}\sqrt{120782}e^4 \otimes e_9$	{1235689, 1259, 35789, 5679}
9531:39	$0, 0, 0, 0, \frac{1}{108}\sqrt{385}e^{12}, \frac{1}{216}\sqrt{22330}e^{13}, \frac{5}{216}\sqrt{154}e^{25},$ $\frac{1}{108}\sqrt{1001}e^{16} + \frac{1}{216}\sqrt{13398}e^{34}, \frac{1}{108}\sqrt{6699}e^{27}$	$(-\frac{1}{72}, -\frac{17}{216}, \frac{25}{54}, -\frac{1}{36}, -\frac{5}{54}, \frac{97}{216}, -\frac{37}{216}, \frac{47}{108}, -\frac{1}{4})$ $+ \frac{7}{216}\sqrt{1122}e^3 \otimes e_9$	{12569, 138, 23678, 579}
9531:39	$0, 0, 0, 0, \frac{6}{581}\sqrt{759}e^{12}, \frac{9}{581}\sqrt{1870}e^{13}, \frac{24}{581}\sqrt{33}e^{25},$ $\frac{9}{581}\sqrt{1870}e^{16} + \frac{18}{581}\sqrt{253}e^{34}, \frac{33}{581}\sqrt{114}e^{27}$	$(\frac{117}{581}, -\frac{99}{581}, -\frac{3}{83}, \frac{234}{581}, \frac{96}{581}, -\frac{81}{581}, \frac{213}{581}, -\frac{180}{581})$ $+ \frac{3}{581}\sqrt{32010}e^1 \otimes e_9$	{1348, 146, 3456789, 4579}
9531:39	$0, 0, 0, 0, \frac{12}{1013}\sqrt{65}e^{12}, \frac{6}{1013}\sqrt{170}e^{13}, \frac{6}{1013}\sqrt{870}e^{25},$ $\frac{36}{1013}\sqrt{11}e^{16} + \frac{6}{1013}\sqrt{1162}e^{34}, \frac{6}{1013}\sqrt{79}e^{27}$	$(-\frac{84}{1013}, \frac{54}{1013}, \frac{150}{1013}, -\frac{168}{1013}, -\frac{30}{1013}, \frac{66}{1013}, \frac{24}{1013}, -\frac{18}{1013}, \frac{78}{1013})$ $+ \frac{12}{1013}\sqrt{530}e^2 \otimes e_8 + \frac{6}{1013}\sqrt{1442}e^3 \otimes e_9$	{259, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:39	$0, 0, 0, 0, \frac{90}{10117} \sqrt{667}e^{12}, \frac{135}{10117} \sqrt{1022}e^{13}, \frac{360}{10117} \sqrt{11}e^{25},$ $\frac{45}{10117} \sqrt{6990}e^{16} + \frac{90}{10117} \sqrt{1173}e^{34}, \frac{45}{10117} \sqrt{5426}e^{27}$	$(\frac{45}{10117}, -\frac{675}{10117}, \frac{2115}{10117}, \frac{90}{10117}, -\frac{630}{10117}, \frac{2160}{10117}, -\frac{1305}{10117}, \frac{2205}{10117}, -\frac{1980}{10117})$ $+\frac{45}{10117} \sqrt{11498}e^1 \otimes e_9 + \frac{540}{10117} \sqrt{46}e^3 \otimes e_4$	{146, 4579}
9531:40	$0, 0, 0, 0, \frac{10}{439} \sqrt{22}e^{12}, \frac{5}{439} \sqrt{138}e^{13}, \frac{5}{439} \sqrt{254}e^{25},$ $\frac{5}{439} \sqrt{290}e^{24} + \frac{10}{439} \sqrt{66}e^{36}, \frac{30}{439} \sqrt{10}e^{27}$	$(-\frac{65}{439}, \frac{30}{439}, \frac{50}{439}, \frac{5}{439}, -\frac{35}{439}, -\frac{15}{439}, -\frac{5}{439}, \frac{35}{439}, \frac{25}{439})$ $+\frac{10}{439} \sqrt{94}e^2 \otimes e_4 + \frac{5}{439} \sqrt{406}e^3 \otimes e_9$	{259, 346}
9531:40	$0, 0, 0, 0, \frac{4}{1737} \sqrt{24519}e^{12}, \frac{1}{1737} \sqrt{991162}e^{13}, \frac{5}{579} \sqrt{1486}e^{25},$ $\frac{1}{1737} \sqrt{592914}e^{24} + \frac{4}{1737} \sqrt{66127}e^{36}, \frac{40}{1737} \sqrt{743}e^{27}$	$(-\frac{127}{1737}, -\frac{86}{1737}, \frac{358}{1737}, \frac{75}{193}, -\frac{71}{579}, \frac{77}{579}, -\frac{299}{1737}, \frac{589}{1737}, -\frac{385}{1737})$ $+\frac{1}{1737} \sqrt{2171046}e^3 \otimes e_9$	{1245689, 138, 2367, 4579}
9531:40	$0, 0, 0, 0, \frac{6}{71} \sqrt{53}e^{12}, \frac{8}{213} \sqrt{53}e^{13}, \frac{20}{213} \sqrt{53}e^{25},$ $\frac{2}{213} \sqrt{4611}e^{24} + \frac{4}{213} \sqrt{530}e^{36}, \frac{2}{213} \sqrt{3869}e^{27}$	$(-\frac{32}{213}, \frac{46}{213}, \frac{3}{71}, -\frac{20}{71}, \frac{14}{213}, -\frac{23}{213}, \frac{20}{71}, -\frac{14}{213}, \frac{106}{213})$ $+\frac{4}{71} \sqrt{265}e^2 \otimes e_4$	{12367, 127, 1345679, 14579}
9531:40	$0, 0, 0, 0, \frac{2}{1171} \sqrt{113505}e^{12}, \frac{12}{1171} \sqrt{4186}e^{13}, \frac{4}{1171} \sqrt{18354}e^{25},$ $\frac{6}{1171} \sqrt{12719}e^{24} + \frac{4}{1171} \sqrt{18354}e^{36}, \frac{46}{1171} \sqrt{357}e^{27}$	$(\frac{624}{1171}, -\frac{322}{1171}, -\frac{245}{1171}, \frac{456}{1171}, \frac{302}{1171}, \frac{379}{1171}, -\frac{20}{1171}, \frac{134}{1171}, -\frac{342}{1171})$ $+\frac{28}{1171} \sqrt{2346}e^1 \otimes e_9$	{123478, 124678, 23569, 259}
9531:40	$0, 0, 0, 0, \frac{2}{67} \sqrt{455}e^{12}, \frac{4}{67} \sqrt{70}e^{13}, \frac{4}{67} \sqrt{35}e^{25},$ $\frac{2}{67} \sqrt{805}e^{24} + \frac{4}{67} \sqrt{35}e^{36}, \frac{2}{67} \sqrt{665}e^{27}$	$(\frac{16}{67}, -\frac{14}{67}, \frac{7}{67}, \frac{44}{67}, \frac{2}{67}, \frac{23}{67}, -\frac{12}{67}, \frac{30}{67}, -\frac{26}{67})$ $+\frac{28}{67} \sqrt{10}e^4 \otimes e_9$	{123457, 124567, 1379, 1679, 23689, 289, 34568, 458}
9531:40	$0, 0, 0, 0, \frac{2}{67} \sqrt{455}e^{12}, \frac{4}{67} \sqrt{70}e^{13}, \frac{4}{67} \sqrt{35}e^{25},$ $\frac{2}{67} \sqrt{805}e^{24} + \frac{4}{67} \sqrt{35}e^{36}, \frac{2}{67} \sqrt{665}e^{27}$	$(\frac{16}{67}, -\frac{14}{67}, \frac{7}{67}, \frac{44}{67}, \frac{2}{67}, \frac{23}{67}, -\frac{12}{67}, \frac{30}{67}, -\frac{26}{67})$ $-\frac{28}{67} \sqrt{10}e^4 \otimes e_9$	{123457, 124567, 1379, 1679, 23689, 289, 34568, 458}
9531:40	$0, 0, 0, 0, \frac{3}{317} \sqrt{398}e^{12}, \frac{18}{317} \sqrt{2}e^{13}, \frac{6}{317} \sqrt{101}e^{25},$ $\frac{36}{317} \sqrt{3}e^{24} + \frac{3}{317} \sqrt{186}e^{36}, \frac{3}{317} \sqrt{434}e^{27}$	$(\frac{36}{317}, -\frac{6}{317}, -\frac{33}{317}, -\frac{24}{317}, \frac{30}{317}, \frac{3}{317}, \frac{24}{317}, -\frac{30}{317}, \frac{18}{317})$ $+\frac{3}{317} \sqrt{654}e^2 \otimes e_4 + \frac{6}{317} \sqrt{122}e^1 \otimes e_9$	{23569, 259}
9531:41	$0, 0, 0, 0, \frac{86}{4701} \sqrt{659}e^{12}, \frac{43}{4701} \sqrt{4078}e^{13} + \frac{43}{4701} \sqrt{5446}e^{24},$ $\frac{86}{4701} \sqrt{721}e^{15}, \frac{43}{4701} \sqrt{3534}e^{25}, \frac{86}{4701} \sqrt{1067}e^{17} + \frac{172}{1567} \sqrt{23}e^{33}$	$(\frac{301}{4701}, -\frac{258}{1567}, \frac{301}{1567}, \frac{1978}{4701}, -\frac{473}{4701}, \frac{1204}{4701}, -\frac{172}{4701}, -\frac{1247}{4701}, \frac{43}{1567})$ $+\frac{43}{4701} \sqrt{8362}e^4 \otimes e_9$	{234, 3579}
9531:41	$0, 0, 0, 0, \frac{9}{154} \sqrt{15}e^{12}, \frac{9}{154} e^{13} + \frac{9}{77} \sqrt{46}e^{24}, \frac{9}{77} \sqrt{7}e^{15},$ $\frac{9}{154} \sqrt{190}e^{25}, \frac{9}{154} \sqrt{77}e^{17} + \frac{9}{154} \sqrt{110}e^{23}$	$(\frac{9}{77}, -\frac{18}{77}, \frac{27}{77}, \frac{54}{77}, -\frac{9}{77}, \frac{36}{77}, 0, -\frac{27}{77}, \frac{9}{77})$ $+\frac{9}{154} \sqrt{511}e^4 \otimes e_8$	{12457, 358}
9531:41	$0, 0, 0, 0, \frac{290}{2361} \sqrt{39}e^{12}, \frac{58}{2361} \sqrt{65}e^{13} + \frac{116}{2361} \sqrt{181}e^{24},$ $\frac{58}{2361} \sqrt{230}e^{15}, \frac{116}{787} \sqrt{26}e^{25}, \frac{116}{2361} \sqrt{103}e^{17} + \frac{754}{2361} \sqrt{3}e^{23}$	$(-\frac{29}{787}, \frac{667}{2361}, -\frac{87}{787}, -\frac{1015}{2361}, \frac{580}{2361}, -\frac{116}{787}, \frac{493}{2361}, \frac{1247}{2361}, \frac{406}{2361})$ $+\frac{290}{2361} \sqrt{82}e^2 \otimes e_4$	{1238, 1345789, 259, 47}
9531:41	$0, 0, 0, 0, \frac{290}{2361} \sqrt{39}e^{12}, \frac{58}{2361} \sqrt{65}e^{13} + \frac{116}{2361} \sqrt{181}e^{24},$ $\frac{58}{2361} \sqrt{230}e^{15}, \frac{116}{787} \sqrt{26}e^{25}, \frac{116}{2361} \sqrt{103}e^{17} + \frac{754}{2361} \sqrt{3}e^{23}$	$(-\frac{29}{787}, \frac{667}{2361}, -\frac{87}{787}, -\frac{1015}{2361}, \frac{580}{2361}, -\frac{116}{787}, \frac{493}{2361}, \frac{1247}{2361}, \frac{406}{2361})$ $-\frac{290}{2361} \sqrt{82}e^2 \otimes e_4$	{1238, 1345789, 259, 47}
9531:42	$0, 0, 0, 0, \frac{19}{287} \sqrt{66}e^{12}, \frac{19}{287} \sqrt{22}e^{13}, \frac{1}{287} \sqrt{12122}e^{15},$ $\frac{2}{287} \sqrt{6479}e^{16} + \frac{1}{287} \sqrt{53922}e^{23}, \frac{1}{287} \sqrt{53922}e^{17}$	$(-\frac{2}{41}, -\frac{4}{41}, \frac{139}{287}, \frac{44}{287}, -\frac{6}{41}, \frac{125}{287}, -\frac{8}{41}, \frac{111}{287}, -\frac{10}{41})$ $+\frac{9}{287} \sqrt{1254}e^3 \otimes e_9$	{1245689, 125689, 2346, 236}
9531:42	$0, 0, 0, 0, \frac{1}{47} \sqrt{93}e^{12}, \frac{8}{47} \sqrt{3}e^{13}, \frac{1}{47} \sqrt{138}e^{15},$ $\frac{1}{47} \sqrt{195}e^{16} + \frac{8}{47} \sqrt{3}e^{23}, \frac{3}{47} \sqrt{21}e^{17}$	$(-\frac{1}{47}, -\frac{2}{47}, \frac{6}{47}, \frac{3}{47}, -\frac{3}{47}, \frac{5}{47}, -\frac{4}{47}, \frac{4}{47}, -\frac{5}{47})$ $+\frac{1}{47} \sqrt{246}e^2 \otimes e_9 + \frac{3}{47} e^3 \otimes e_4$	{135689, 1459}
9531:42	$0, 0, 0, 0, \frac{3}{703} \sqrt{1374}e^{12}, \frac{9}{703} \sqrt{266}e^{13}, \frac{6}{703} \sqrt{483}e^{15},$ $\frac{9}{703} \sqrt{266}e^{16} + \frac{18}{703} \sqrt{65}e^{23}, \frac{12}{703} \sqrt{159}e^{17}$	$(-\frac{9}{703}, -\frac{18}{703}, \frac{75}{703}, -\frac{36}{703}, -\frac{27}{703}, \frac{66}{703}, -\frac{36}{703}, \frac{3}{37}, -\frac{45}{703})$ $+\frac{18}{703} \sqrt{17}e^1 \otimes e_4 + \frac{3}{703} \sqrt{3210}e^2 \otimes e_9$	{135689, 159}
9531:42	$0, 0, 0, 0, \frac{6}{571} \sqrt{323}e^{12}, \frac{2}{571} \sqrt{49742}e^{13}, \frac{68}{571} \sqrt{38}e^{15},$ $\frac{2}{571} \sqrt{49742}e^{16} + \frac{2}{571} \sqrt{44897}e^{23}, \frac{4}{571} \sqrt{23902}e^{17}$	$(-\frac{15}{571}, -\frac{30}{571}, \frac{115}{571}, 1, -\frac{45}{571}, \frac{100}{571}, -\frac{60}{571}, \frac{85}{571}, -\frac{75}{571})$ $+\frac{2}{571} \sqrt{152133}e^4 \otimes e_9$	{134678, 147, 35789, 5679}
9531:42	$0, 0, 0, 0, \frac{1}{35} \sqrt{399}e^{12}, \frac{1}{35} \sqrt{133}e^{13}, \frac{1}{35} \sqrt{190}e^{15},$ $\frac{1}{35} \sqrt{874}e^{16} + \frac{6}{35} \sqrt{19}e^{23}, \frac{1}{35} \sqrt{57}e^{17}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{1}{7}, 1, \frac{3}{35}, -\frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{1}{7})$ $+\frac{3}{35} \sqrt{247}e^4 \otimes e_8$	{138, 146, 35689, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:42	$0, 0, 0, 0, \frac{2}{23}\sqrt{6}e^{12}, \frac{3}{46}\sqrt{22}e^{13}, \frac{1}{46}\sqrt{141}e^{15},$ $\frac{3}{46}\sqrt{22}e^{16} + \frac{4}{23}\sqrt{3}e^{23}, \frac{4}{23}\sqrt{3}e^{17}$	$(-\frac{1}{46}, -\frac{1}{23}, \frac{11}{92}, \frac{9}{92}, -\frac{3}{46}, \frac{9}{92}, -\frac{2}{23}, \frac{7}{92}, -\frac{5}{46})$ $+\frac{1}{46}\sqrt{249}e^2 \otimes e_9$	{1345689, 135689, 1459, 159}
9531:42	$0, 0, 0, 0, \frac{3}{71}\sqrt{354}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{1}{71}\sqrt{2714}e^{15},$ $\frac{1}{71}\sqrt{3422}e^{16} + \frac{2}{71}\sqrt{1003}e^{23}, \frac{2}{71}\sqrt{413}e^{17}$	$(\frac{5}{71}, \frac{10}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{15}{71}, \frac{11}{71}, \frac{20}{71}, \frac{16}{71}, \frac{25}{71})$ $+\frac{2}{71}\sqrt{1770}e^2 \otimes e_4$	{1345689, 1459, 348, 46}
9531:42	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{874}e^{13}, \frac{1}{35}\sqrt{190}e^{15},$ $\frac{1}{35}\sqrt{133}e^{16} + \frac{6}{35}\sqrt{19}e^{23}, \frac{1}{35}\sqrt{57}e^{17}$	$(\frac{1}{35}, \frac{2}{35}, \frac{29}{70}, -\frac{47}{70}, \frac{3}{35}, \frac{31}{70}, \frac{4}{35}, \frac{33}{70}, \frac{1}{7})$ $+\frac{3}{35}\sqrt{247}e^3 \otimes e_4$	{138, 146, 35689, 459}
9531:42	$0, 0, 0, 0, \frac{5}{137}\sqrt{111}e^{12}, \frac{5}{137}\sqrt{37}e^{13}, \frac{5}{137}\sqrt{2}e^{15},$ $\frac{5}{137}\sqrt{10}e^{16} + \frac{10}{137}\sqrt{51}e^{23}, \frac{15}{137}\sqrt{15}e^{17}$	$(-\frac{5}{137}, -\frac{10}{137}, \frac{25}{137}, \frac{65}{137}, -\frac{15}{137}, \frac{20}{137}, -\frac{20}{137}, \frac{15}{137}, -\frac{25}{137})$ $+\frac{15}{137}\sqrt{23}e^4 \otimes e_8 + \frac{60}{137}\sqrt{2}e^3 \otimes e_9$	{1378, 4579}
9531:42	$0, 0, 0, 0, \frac{4}{119}\sqrt{258}e^{12}, \frac{10}{119}\sqrt{43}e^{13}, \frac{2}{119}\sqrt{989}e^{15},$ $\frac{10}{119}\sqrt{43}e^{16} + \frac{6}{119}\sqrt{86}e^{23}, \frac{2}{119}\sqrt{645}e^{17}$	$(\frac{1}{17}, \frac{2}{17}, \frac{13}{119}, -\frac{79}{119}, \frac{3}{17}, \frac{20}{119}, \frac{4}{17}, \frac{27}{119}, \frac{5}{17})$ $+\frac{6}{119}\sqrt{473}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579}
9531:42	$0, 0, 0, 0, \frac{1}{47}\sqrt{93}e^{12}, \frac{1}{47}\sqrt{195}e^{13}, \frac{1}{47}\sqrt{138}e^{15},$ $\frac{8}{47}\sqrt{3}e^{16} + \frac{8}{47}\sqrt{3}e^{23}, \frac{3}{47}\sqrt{21}e^{17}$	$(-\frac{1}{47}, -\frac{2}{47}, \frac{5}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{4}{47}, \frac{3}{47}, -\frac{5}{47})$ $+\frac{1}{47}\sqrt{246}e^2 \otimes e_9 + \frac{3}{47}e^4 \otimes e_8$	{135689, 1459}
9531:42	$0, 0, 0, 0, \frac{68}{1817}\sqrt{3}e^{12}, \frac{34}{1817}\sqrt{271}e^{13}, \frac{238}{1817}\sqrt{5}e^{15},$ $\frac{34}{1817}e^{16} + \frac{204}{1817}\sqrt{7}e^{23}, \frac{34}{1817}\sqrt{519}e^{17}$	$(-\frac{17}{1817}, -\frac{34}{1817}, \frac{493}{1817}, -\frac{595}{1817}, -\frac{51}{1817}, \frac{476}{1817}, -\frac{68}{1817}, \frac{459}{1817}, -\frac{85}{1817})$ $+\frac{102}{1817}\sqrt{89}e^1 \otimes e_4 + \frac{306}{1817}\sqrt{10}e^3 \otimes e_9$	{1378, 4579}
9531:42	$0, 0, 0, 0, \frac{105}{3949}\sqrt{62}e^{12}, \frac{35}{3949}\sqrt{1310}e^{13}, \frac{175}{3949}\sqrt{62}e^{15},$ $\frac{35}{3949}\sqrt{2558}e^{16} + \frac{70}{3949}\sqrt{934}e^{23}, \frac{70}{3949}\sqrt{653}e^{17}$	$(-\frac{35}{3949}, -\frac{70}{3949}, \frac{1050}{3949}, -\frac{1295}{3949}, -\frac{105}{3949}, \frac{1015}{3949}, -\frac{140}{3949}, \frac{980}{3949}, -\frac{175}{3949})$ $+\frac{420}{3949}\sqrt{26}e^3 \otimes e_9 + \frac{70}{3949}\sqrt{843}e^2 \otimes e_4$	{1459, 348}
9531:43	$0, 0, 0, 0, \frac{12}{743}\sqrt{42}e^{12}, \frac{36}{743}\sqrt{22}e^{13}, \frac{6}{743}\sqrt{537}e^{25},$ $\frac{36}{743}\sqrt{22}e^{16} + \frac{18}{743}\sqrt{91}e^{23}, \frac{48}{743}\sqrt{15}e^{27}$	$(-\frac{9}{743}, -\frac{18}{743}, \frac{105}{743}, -\frac{72}{743}, -\frac{27}{743}, \frac{96}{743}, \frac{45}{743}, \frac{87}{743}, -\frac{63}{743})$ $+\frac{36}{743}\sqrt{14}e^2 \otimes e_4 - \frac{6}{743}\sqrt{1437}e^1 \otimes e_9$	{12378, 1267, 235689, 259}
9531:43	$0, 0, 0, 0, \frac{12}{743}\sqrt{42}e^{12}, \frac{36}{743}\sqrt{22}e^{13}, \frac{6}{743}\sqrt{537}e^{25},$ $\frac{36}{743}\sqrt{22}e^{16} + \frac{18}{743}\sqrt{91}e^{23}, \frac{48}{743}\sqrt{15}e^{27}$	$(-\frac{9}{743}, -\frac{18}{743}, \frac{105}{743}, -\frac{72}{743}, -\frac{27}{743}, \frac{96}{743}, -\frac{45}{743}, \frac{87}{743}, -\frac{63}{743})$ $+\frac{36}{743}\sqrt{14}e^2 \otimes e_4 + \frac{6}{743}\sqrt{1437}e^1 \otimes e_9$	{12378, 1267, 235689, 259}
9531:43	$0, 0, 0, 0, \frac{86}{5701}\sqrt{183}e^{12}, \frac{172}{5701}\sqrt{282}e^{13}, \frac{43}{5701}\sqrt{938}e^{25},$ $\frac{43}{5701}\sqrt{2914}e^{16} + \frac{43}{5701}\sqrt{1402}e^{23}, \frac{86}{5701}\sqrt{695}e^{27}$	$(-\frac{43}{5701}, -\frac{86}{5701}, \frac{1548}{5701}, -\frac{1892}{5701}, -\frac{129}{5701}, \frac{1505}{5701}, -\frac{215}{5701}, \frac{1462}{5701}, -\frac{301}{5701})$ $+\frac{43}{5701}\sqrt{4794}e^3 \otimes e_9 + \frac{86}{5701}\sqrt{1299}e^1 \otimes e_4$	{12569, 234678}
9531:43	$0, 0, 0, 0, \frac{119}{2293}\sqrt{66}e^{12}, \frac{51}{2293}\sqrt{310}e^{13}, \frac{51}{2293}\sqrt{70}e^{25},$ $\frac{102}{2293}\sqrt{62}e^{16} + \frac{17}{2293}\sqrt{3270}e^{23}, \frac{51}{2293}\sqrt{310}e^{27}$	$(-\frac{68}{2293}, -\frac{136}{2293}, \frac{391}{2293}, \frac{1122}{2293}, -\frac{204}{2293}, \frac{323}{2293}, -\frac{340}{2293}, \frac{255}{2293}, -\frac{476}{2293})$ $+\frac{17}{2293}\sqrt{7026}e^3 \otimes e_9 + \frac{34}{2293}\sqrt{1338}e^4 \otimes e_8$	{14679, 3568}
9531:43	$0, 0, 0, 0, \frac{1}{443}\sqrt{83886}e^{12}, \frac{13}{443}\sqrt{682}e^{13}, \frac{1}{443}\sqrt{3410}e^{25},$ $\frac{2}{443}\sqrt{7843}e^{16} + \frac{1}{443}\sqrt{40238}e^{23}, \frac{13}{443}\sqrt{682}e^{27}$	$(-\frac{18}{443}, -\frac{36}{443}, \frac{215}{443}, \frac{74}{443}, -\frac{54}{443}, \frac{197}{443}, -\frac{90}{443}, \frac{179}{443}, -\frac{126}{443})$ $+\frac{3}{443}\sqrt{27962}e^3 \otimes e_9$	{1348, 138, 4579, 579}
9531:43	$0, 0, 0, 0, \frac{1}{443}\sqrt{83886}e^{12}, \frac{6}{443}\sqrt{682}e^{13}, \frac{16}{443}\sqrt{341}e^{25},$ $\frac{6}{443}\sqrt{682}e^{16} + \frac{1}{443}\sqrt{40238}e^{23}, \frac{1}{443}\sqrt{59334}e^{27}$	$(\frac{23}{443}, \frac{46}{443}, \frac{51}{443}, -\frac{295}{443}, \frac{69}{443}, \frac{74}{443}, \frac{115}{443}, \frac{97}{443}, \frac{161}{443})$ $+\frac{3}{443}\sqrt{27962}e^2 \otimes e_4$	{13456789, 14579, 348, 46}
9531:43	$0, 0, 0, 0, \frac{6}{919}\sqrt{4438}e^{12}, \frac{4}{919}\sqrt{29798}e^{13}, \frac{2}{919}\sqrt{52622}e^{25},$ $\frac{4}{919}\sqrt{29798}e^{16} + \frac{2}{919}\sqrt{106195}e^{23}, \frac{4}{919}\sqrt{9827}e^{27}$	$(\frac{41}{919}, \frac{82}{919}, \frac{122}{919}, -\frac{593}{919}, \frac{123}{919}, \frac{163}{919}, \frac{205}{919}, \frac{204}{919}, \frac{287}{919})$ $+\frac{12}{919}\sqrt{6657}e^1 \otimes e_4$	{12378, 1267, 2345689, 2459}
9531:43	$0, 0, 0, 0, \frac{4}{895}\sqrt{15630}e^{12}, \frac{2}{895}\sqrt{82318}e^{13}, \frac{2}{895}\sqrt{61478}e^{25},$ $\frac{2}{895}\sqrt{82318}e^{16} + \frac{2}{895}\sqrt{93259}e^{23}, \frac{2}{895}\sqrt{207358}e^{27}$	$(-\frac{21}{895}, -\frac{42}{895}, \frac{196}{895}, 1, -\frac{63}{895}, \frac{35}{179}, -\frac{21}{179}, \frac{154}{895}, -\frac{147}{895})$ $+\frac{24}{895}\sqrt{2605}e^4 \otimes e_9$	{123589, 12569, 234678, 247}
9531:43	$0, 0, 0, 0, \frac{6}{841}\sqrt{5954}e^{12}, \frac{2}{841}\sqrt{458}e^{13}, \frac{4}{841}\sqrt{4351}e^{25},$ $\frac{2}{841}\sqrt{107630}e^{16} + \frac{2}{841}\sqrt{115874}e^{23}, \frac{2}{841}\sqrt{458}e^{27}$	$(\frac{20}{841}, \frac{40}{841}, -\frac{115}{841}, 1, \frac{60}{841}, -\frac{95}{841}, \frac{100}{841}, -\frac{75}{841}, \frac{140}{841})$ $+\frac{12}{841}\sqrt{8931}e^4 \otimes e_8$	{13789, 14679, 3568, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:43	$0, 0, 0, 0, \frac{6}{841}\sqrt{5954}e^{12}, \frac{2}{841}\sqrt{107630}e^{13}, \frac{4}{841}\sqrt{4351}e^{25},$ $\frac{2}{841}\sqrt{458}e^{16} + \frac{2}{841}\sqrt{115874}e^{23}, \frac{2}{841}\sqrt{458}e^{27}$	$(\frac{20}{841}, \frac{40}{841}, \frac{353}{841}, -\frac{563}{841}, \frac{60}{841}, \frac{373}{841}, \frac{100}{841}, \frac{393}{841}, \frac{140}{841})$ $+ \frac{12}{841}\sqrt{8931}e^3 \otimes e_4$	{13789, 14679, 3568, 45}
9531:44	$0, 0, 0, 0, \frac{8}{3089}\sqrt{33285}e^{12}, \frac{2}{3089}\sqrt{797255}e^{13}, \frac{2}{3089}\sqrt{529390}e^{15},$ $\frac{4}{3089}\sqrt{72910}e^{36}, \frac{2}{3089}\sqrt{1520015}e^{17} + \frac{2}{3089}\sqrt{1665835}e^{23}$	$(-\frac{45}{3089}, -\frac{216}{3089}, \frac{135}{3089}, 1, -\frac{171}{3089}, \frac{180}{3089}, -\frac{126}{3089}, \frac{315}{3089}, -\frac{81}{3089})$ $+ \frac{10}{3089}\sqrt{164206}e^4 \otimes e_9$	{12589, 1478, 234, 3579}
9531:44	$0, 0, 0, 0, \frac{59}{7713}\sqrt{1938}e^{12}, \frac{118}{7713}\sqrt{613}e^{13}, \frac{59}{7713}\sqrt{1378}e^{15},$ $\frac{59}{7713}\sqrt{1590}e^{36}, \frac{472}{7713}\sqrt{22}e^{17} + \frac{59}{7713}\sqrt{4314}e^{23}$	$(-\frac{295}{7713}, \frac{472}{2571}, -\frac{295}{2571}, \frac{4012}{7713}, \frac{1121}{7713}, -\frac{1180}{7713}, \frac{826}{7713}, -\frac{2065}{7713}, \frac{59}{857})$ $+ \frac{59}{7713}\sqrt{6342}e^4 \otimes e_9 + \frac{59}{7713}\sqrt{7402}e^2 \otimes e_8$	{123467, 468}
9531:44	$0, 0, 0, 0, \frac{25}{123}\sqrt{5}e^{12}, \frac{10}{369}\sqrt{5}e^{13}, \frac{5}{369}\sqrt{730}e^{15}, \frac{25}{123}\sqrt{3}e^{36},$ $\frac{5}{369}\sqrt{385}e^{17} + \frac{5}{123}\sqrt{10}e^{23}$	$(-\frac{5}{369}, \frac{10}{41}, -\frac{5}{123}, -\frac{130}{369}, \frac{85}{369}, -\frac{20}{369}, \frac{80}{369}, -\frac{35}{369}, \frac{25}{123})$ $+ \frac{10}{369}\sqrt{370}e^2 \otimes e_8 + \frac{5}{123}\sqrt{195}e^1 \otimes e_4$	{15689, 2345679}
9531:44	$0, 0, 0, 0, \frac{22}{1083}\sqrt{1385}e^{12}, \frac{2}{3249}\sqrt{580315}e^{13}, \frac{2}{3249}\sqrt{451510}e^{15},$ $\frac{8}{1083}\sqrt{8310}e^{36}, \frac{32}{3249}\sqrt{1385}e^{17} + \frac{2}{1083}\sqrt{101105}e^{23}$	$(-\frac{181}{3249}, \frac{167}{361}, -\frac{181}{1083}, \frac{559}{3249}, \frac{1322}{3249}, -\frac{724}{3249}, \frac{1141}{3249}, -\frac{1267}{3249}, \frac{320}{1083})$ $+ \frac{10}{3249}\sqrt{149026}e^2 \otimes e_8$	{12479, 1279, 3489, 389}
9531:44	$0, 0, 0, 0, \frac{5}{67}\sqrt{30}e^{12}, \frac{5}{201}\sqrt{170}e^{13}, \frac{50}{201}\sqrt{2}e^{15}, \frac{50}{201}\sqrt{15}e^{36},$ $\frac{5}{67}\sqrt{30}e^{17} + \frac{20}{201}\sqrt{30}e^{23}$	$(-\frac{7}{201}, \frac{49}{201}, -\frac{7}{67}, 1, \frac{14}{67}, -\frac{28}{201}, \frac{35}{201}, -\frac{49}{201}, \frac{28}{201})$ $+ \frac{25}{201}\sqrt{130}e^4 \otimes e_8$	{12678, 15689, 2345679, 346}
9531:44	$0, 0, 0, 0, \frac{1}{98}\sqrt{1615}e^{12}, \frac{5}{98}\sqrt{238}e^{13}, \frac{1}{98}\sqrt{1105}e^{15}, \frac{1}{98}\sqrt{4505}e^{36},$ $\frac{1}{98}\sqrt{1615}e^{17} + \frac{1}{98}\sqrt{3145}e^{23}$	$(\frac{3}{49}, \frac{13}{196}, \frac{9}{49}, -\frac{67}{98}, \frac{25}{196}, \frac{12}{49}, \frac{37}{196}, \frac{3}{7}, \frac{1}{4})$ $+ \frac{5}{98}\sqrt{561}e^3 \otimes e_4$	{12456789, 1468, 2367, 3569}
9531:44	$0, 0, 0, 0, \frac{286}{1073}e^{12}, \frac{130}{1073}\sqrt{5}e^{13}, \frac{26}{1073}\sqrt{6}e^{15}, \frac{52}{1073}\sqrt{71}e^{36},$ $\frac{52}{1073}\sqrt{30}e^{17} + \frac{26}{1073}\sqrt{221}e^{23}$	$(-\frac{13}{1073}, \frac{247}{1073}, -\frac{39}{1073}, -\frac{13}{37}, \frac{234}{1073}, -\frac{52}{1073}, \frac{221}{1073}, -\frac{91}{1073}, \frac{208}{1073})$ $+ \frac{26}{1073}\sqrt{482}e^2 \otimes e_8 + \frac{572}{1073}e^3 \otimes e_4$	{135789, 2459}
9531:44	$0, 0, 0, 0, \frac{1}{209}\sqrt{16385}e^{12}, \frac{2}{209}\sqrt{1885}e^{13}, \frac{1}{209}\sqrt{17690}e^{15}, \frac{1}{209}\sqrt{7685}e^{36},$ $\frac{1}{209}\sqrt{16385}e^{17} + \frac{1}{209}\sqrt{12470}e^{23}$	$(\frac{9}{209}, \frac{23}{209}, \frac{27}{209}, -\frac{136}{209}, \frac{32}{209}, \frac{36}{209}, \frac{41}{209}, \frac{63}{209}, \frac{50}{209})$ $+ \frac{5}{209}\sqrt{2001}e^1 \otimes e_4$	{12678, 15689, 2345679, 346}
9531:44	$0, 0, 0, 0, \frac{2}{3089}\sqrt{1520015}e^{12}, \frac{2}{3089}\sqrt{797255}e^{13}, \frac{2}{3089}\sqrt{529390}e^{15},$ $\frac{4}{3089}\sqrt{72910}e^{36}, \frac{8}{3089}\sqrt{33285}e^{17} + \frac{2}{3089}\sqrt{1665835}e^{23}$	$(\frac{45}{3089}, \frac{1079}{3089}, \frac{135}{3089}, -\frac{2091}{3089}, \frac{1124}{3089}, \frac{180}{3089}, \frac{1169}{3089}, \frac{315}{3089}, \frac{1214}{3089})$ $+ \frac{10}{3089}\sqrt{164206}e^2 \otimes e_4$	{12789, 1458, 2357, 349}
9531:45	$0, 0, 0, 0, \frac{1}{281}\sqrt{27186}e^{12}, \frac{1}{281}\sqrt{37430}e^{13}, \frac{1}{281}\sqrt{13790}e^{15}, \frac{9}{281}\sqrt{394}e^{16},$ $\frac{12}{281}\sqrt{197}e^{17} + \frac{2}{281}\sqrt{4137}e^{34}$	$(\frac{67}{281}, -\frac{130}{281}, -\frac{12}{281}, \frac{83}{281}, -\frac{63}{281}, \frac{55}{281}, \frac{4}{281}, \frac{122}{281}, \frac{71}{281})$ $+ \frac{4}{281}\sqrt{5910}e^1 \otimes e_2$	{1378, 1467, 2368, 24}
9531:45	$0, 0, 0, 0, \frac{25}{71}e^{12}, \frac{5}{71}\sqrt{31}e^{13}, \frac{5}{71}e^{15}, \frac{5}{71}\sqrt{55}e^{16},$ $\frac{5}{71}\sqrt{3}e^{17} + \frac{5}{71}\sqrt{13}e^{34}$	$(\frac{10}{71}, -\frac{15}{71}, -\frac{15}{71}, \frac{30}{71}, -\frac{5}{71}, -\frac{5}{71}, \frac{5}{71}, \frac{5}{71}, \frac{15}{71})$ $+ \frac{5}{71}\sqrt{59}e^4 \otimes e_8 + \frac{5}{71}\sqrt{69}e^1 \otimes e_2$	{1389, 1469, 236789, 2479}
9531:45	$0, 0, 0, 0, \frac{25}{71}e^{12}, \frac{5}{71}\sqrt{31}e^{13}, \frac{5}{71}e^{15}, \frac{5}{71}\sqrt{55}e^{16},$ $\frac{5}{71}\sqrt{3}e^{17} + \frac{5}{71}\sqrt{13}e^{34}$	$(\frac{10}{71}, -\frac{15}{71}, -\frac{15}{71}, \frac{30}{71}, -\frac{5}{71}, -\frac{5}{71}, \frac{5}{71}, \frac{5}{71}, \frac{15}{71})$ $- \frac{5}{71}\sqrt{59}e^4 \otimes e_8 + \frac{5}{71}\sqrt{69}e^1 \otimes e_2$	{1389, 1469, 236789, 2479}
9531:45	$0, 0, 0, 0, \frac{79}{133}e^{12}, \frac{3}{133}\sqrt{2370}e^{13}, \frac{1}{19}\sqrt{158}e^{15}, \frac{1}{133}\sqrt{8295}e^{16},$ $\frac{1}{133}\sqrt{4503}e^{17} + \frac{1}{133}\sqrt{869}e^{34}$	$(-\frac{15}{133}, \frac{40}{133}, \frac{153}{266}, -\frac{163}{266}, \frac{25}{133}, \frac{123}{266}, \frac{10}{133}, \frac{93}{266}, -\frac{5}{133})$ $+ \frac{1}{133}\sqrt{35629}e^3 \otimes e_4$	{138, 146, 23678, 247}
9531:45	$0, 0, 0, 0, \frac{99}{149}e^{12}, \frac{36}{149}\sqrt{6}e^{13}, \frac{9}{149}\sqrt{70}e^{15}, \frac{45}{149}\sqrt{3}e^{16},$ $\frac{9}{149}\sqrt{73}e^{17} + \frac{36}{149}\sqrt{6}e^{34}$	$(-\frac{27}{149}, \frac{72}{149}, \frac{36}{149}, -\frac{45}{149}, \frac{45}{149}, \frac{9}{149}, \frac{18}{149}, -\frac{18}{149}, -\frac{9}{149})$ $+ \frac{9}{149}\sqrt{226}e^2 \otimes e_9 + \frac{9}{149}\sqrt{33}e^3 \otimes e_4$	{135689, 1459}
9531:45	$0, 0, 0, 0, \frac{15}{566}\sqrt{770}e^{12}, \frac{3}{566}\sqrt{17430}e^{13}, \frac{3}{566}\sqrt{11795}e^{15},$ $\frac{3}{566}\sqrt{12390}e^{16}, \frac{3}{566}\sqrt{11690}e^{17} + \frac{18}{283}\sqrt{105}e^{34}$	$(-\frac{105}{566}, \frac{291}{566}, \frac{225}{1132}, -\frac{273}{1132}, \frac{93}{283}, \frac{15}{1132}, \frac{81}{566}, -\frac{195}{1132}, -\frac{12}{283})$ $+ \frac{21}{566}\sqrt{695}e^2 \otimes e_9$	{1234678, 127, 135689, 1459}
9531:45	$0, 0, 0, 0, \frac{29}{1393}\sqrt{201}e^{12}, \frac{232}{1393}\sqrt{11}e^{13}, \frac{58}{199}\sqrt{2}e^{15}, \frac{29}{1393}\sqrt{749}e^{16},$ $\frac{29}{1393}\sqrt{463}e^{17} + \frac{58}{1393}\sqrt{3}e^{34}$	$(-\frac{261}{1393}, \frac{696}{1393}, \frac{377}{1393}, -\frac{464}{1393}, \frac{435}{1393}, \frac{1393}{1393}, \frac{174}{1393}, -\frac{145}{1393}, -\frac{87}{1393})$ $+ \frac{29}{1393}\sqrt{1193}e^3 \otimes e_4 + \frac{58}{1393}\sqrt{329}e^2 \otimes e_8$	{135789, 2459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:45	$0, 0, 0, 0, \frac{5}{139}\sqrt{58}e^{12}, \frac{1}{139}\sqrt{1798}e^{13}, \frac{2}{139}\sqrt{1015}e^{15}, \frac{2}{139}\sqrt{3799}e^{16},$ $\frac{3}{139}\sqrt{870}e^{17} + \frac{2}{139}\sqrt{3190}e^{34}$	$(\frac{5}{139}, \frac{27}{139}, -\frac{42}{139}, \frac{84}{139}, \frac{32}{139}, -\frac{37}{139}, \frac{37}{139}, -\frac{32}{139}, \frac{42}{139})$ $+ \frac{1}{139}\sqrt{27434}e^4 \otimes e_8$	{1235789, 1245679, 35689, 459}
9531:45	$0, 0, 0, 0, \frac{6}{2273}\sqrt{88046}e^{12}, \frac{12}{2273}\sqrt{266}e^{13}, \frac{12}{2273}\sqrt{3458}e^{15},$ $\frac{6}{2273}\sqrt{94430}e^{16}, \frac{6}{2273}\sqrt{55195}e^{17} + \frac{6}{2273}\sqrt{36043}e^{34}$	$(-\frac{455}{2273}, \frac{1611}{2273}, \frac{127}{2273}, \frac{119}{2273}, \frac{1156}{2273}, -\frac{328}{2273}, \frac{701}{2273}, -\frac{783}{2273}, \frac{246}{2273})$ $+ \frac{42}{2273}\sqrt{5111}e^2 \otimes e_8$	{12346, 145789, 2359, 678}
9531:46	$0, 0, 0, 0, \frac{4}{367}\sqrt{297546}e^{12}, \frac{8}{3303}\sqrt{179215}e^{13}, \frac{4}{3303}\sqrt{99673}e^{25},$ $\frac{4}{367}\sqrt{2455}e^{16}, \frac{4}{3303}\sqrt{275942}e^{27} + \frac{4}{3303}\sqrt{231261}e^{34}$	$(-\frac{650}{3303}, \frac{50}{367}, \frac{2314}{3303}, -\frac{538}{1101}, -\frac{200}{3303}, \frac{1664}{3303}, \frac{250}{3303}, \frac{338}{1101}, \frac{700}{3303})$ $+ \frac{4}{3303}\sqrt{1322754}e^3 \otimes e_4$	{138, 146, 23678, 247}
9531:46	$0, 0, 0, 0, \frac{112}{3887}\sqrt{15}e^{12}, \frac{224}{3887}\sqrt{41}e^{13}, \frac{280}{3887}\sqrt{37}e^{25},$ $\frac{56}{3887}\sqrt{905}e^{16}, \frac{56}{3887}\sqrt{1034}e^{27} + \frac{168}{3887}\sqrt{43}e^{34}$	$(-\frac{84}{299}, \frac{756}{3887}, \frac{1372}{3887}, -\frac{196}{3887}, -\frac{336}{3887}, \frac{280}{3887}, \frac{420}{3887}, -\frac{812}{3887}, \frac{1176}{3887})$ $+ \frac{112}{3887}\sqrt{278}e^3 \otimes e_4 + \frac{56}{3887}\sqrt{2246}e^2 \otimes e_8$	{12467, 368}
9531:46	$0, 0, 0, 0, \frac{80}{3579}\sqrt{273}e^{12}, \frac{32}{1193}\sqrt{65}e^{13}, \frac{8}{3579}\sqrt{77545}e^{25},$ $\frac{312}{1193}\sqrt{5}e^{16}, \frac{8}{3579}\sqrt{72930}e^{27} + \frac{8}{1193}\sqrt{1495}e^{34}$	$(-\frac{324}{1193}, \frac{844}{3579}, \frac{236}{1193}, \frac{284}{1193}, -\frac{128}{1193}, -\frac{88}{1193}, \frac{716}{3579}, -\frac{412}{1193}, \frac{520}{1193})$ $+ \frac{8}{1193}\sqrt{21190}e^2 \otimes e_8$	{12467, 1345789, 259, 368}
9531:46	$0, 0, 0, 0, \frac{7}{838}\sqrt{114}e^{12}, \frac{7}{838}\sqrt{570}e^{13}, \frac{7}{838}\sqrt{195}e^{25}, \frac{21}{838}\sqrt{182}e^{16},$ $\frac{7}{838}\sqrt{570}e^{27} + \frac{126}{419}e^{34}$	$(\frac{133}{838}, -\frac{49}{838}, -\frac{427}{1676}, \frac{399}{1676}, \frac{42}{419}, -\frac{161}{1676}, \frac{35}{838}, \frac{105}{1676}, -\frac{7}{419})$ $+ \frac{21}{419}\sqrt{53}e^4 \otimes e_8 + \frac{91}{838}\sqrt{15}e^1 \otimes e_9$	{235689, 2459}
9531:46	$0, 0, 0, 0, \frac{12}{5237}\sqrt{458}e^{12}, \frac{60}{5237}\sqrt{30}e^{13}, \frac{12}{5237}\sqrt{977}e^{25},$ $\frac{36}{5237}\sqrt{177}e^{16}, \frac{48}{5237}\sqrt{95}e^{27} + \frac{12}{5237}\sqrt{219}e^{34}$	$(\frac{126}{5237}, -\frac{24}{5237}, -\frac{348}{5237}, \frac{402}{5237}, \frac{102}{5237}, -\frac{222}{5237}, \frac{78}{5237}, -\frac{96}{5237}, \frac{54}{5237})$ $+ \frac{12}{5237}\sqrt{2306}e^1 \otimes e_9 + \frac{12}{5237}\sqrt{2310}e^2 \otimes e_8$	{1267, 2459}
9531:46	$0, 0, 0, 0, \frac{1}{38}\sqrt{87}e^{12}, \frac{1}{38}\sqrt{435}e^{13}, \frac{1}{152}\sqrt{1653}e^{25}, \frac{3}{38}\sqrt{58}e^{16},$ $\frac{1}{38}\sqrt{435}e^{27} + \frac{3}{38}\sqrt{29}e^{34}$	$(\frac{7}{19}, -\frac{29}{152}, -\frac{71}{304}, \frac{9}{304}, \frac{27}{152}, \frac{41}{304}, -\frac{1}{76}, \frac{153}{304}, -\frac{31}{152})$ $+ \frac{1}{152}\sqrt{21489}e^1 \otimes e_9$	{123478, 1267, 235689, 2459}
9531:46	$0, 0, 0, 0, \frac{4}{1117}\sqrt{1834}e^{12}, \frac{4}{1117}\sqrt{9170}e^{13}, \frac{4}{1117}\sqrt{8515}e^{25},$ $\frac{4}{1117}\sqrt{49387}e^{16}, \frac{4}{1117}\sqrt{9170}e^{27} + \frac{4}{1117}\sqrt{54889}e^{34}$	$(-\frac{98}{1117}, \frac{214}{1117}, -\frac{154}{1117}, \frac{698}{1117}, \frac{116}{1117}, -\frac{252}{1117}, \frac{330}{1117}, -\frac{350}{1117}, \frac{544}{1117})$ $+ \frac{4}{1117}\sqrt{120782}e^4 \otimes e_8$	{123456, 1258, 3457, 5678}
9531:46	$0, 0, 0, 0, \frac{27}{2386}\sqrt{190}e^{12}, \frac{27}{2386}\sqrt{1590}e^{13}, \frac{27}{2386}\sqrt{203}e^{25},$ $\frac{27}{2386}\sqrt{1146}e^{16}, \frac{27}{2386}\sqrt{1082}e^{27} + \frac{108}{1193}\sqrt{3}e^{34}$	$(\frac{351}{2386}, -\frac{243}{2386}, \frac{351}{4772}, -\frac{1107}{4772}, \frac{54}{1193}, \frac{1053}{4772}, -\frac{135}{2386}, \frac{1755}{4772}, -\frac{189}{1193})$ $+ \frac{27}{1193}\sqrt{381}e^3 \otimes e_4 + \frac{27}{2386}\sqrt{2639}e^1 \otimes e_9$	{356789, 4579}
9531:47	$0, 0, 0, 0, \frac{128}{3747}\sqrt{195}e^{12}, \frac{144}{1249}\sqrt{26}e^{13}, \frac{16}{1249}\sqrt{429}e^{15},$ $\frac{16}{3747}\sqrt{16237}e^{36}, \frac{16}{1249}\sqrt{910}e^{17} + \frac{16}{1249}\sqrt{1963}e^{24}$	$(-\frac{88}{1249}, \frac{56}{1249}, \frac{1040}{3747}, -\frac{264}{1249}, -\frac{32}{1249}, \frac{776}{3747}, -\frac{120}{1249}, \frac{1816}{3747}, -\frac{208}{1249})$ $+ \frac{32}{3747}\sqrt{10335}e^3 \otimes e_9$	{1234578, 14689, 279, 356}
9531:47	$0, 0, 0, 0, \frac{384}{2743}\sqrt{7}e^{12}, \frac{48}{2743}\sqrt{874}e^{13}, \frac{48}{2743}\sqrt{165}e^{15},$ $\frac{48}{2743}\sqrt{797}e^{36}, \frac{48}{2743}\sqrt{382}e^{17} + \frac{144}{2743}\sqrt{91}e^{24}$	$(-\frac{264}{2743}, \frac{360}{2743}, \frac{720}{2743}, -\frac{792}{2743}, \frac{96}{2743}, \frac{456}{2743}, -\frac{168}{2743}, \frac{1176}{2743}, -\frac{432}{2743})$ $+ \frac{192}{2743}\sqrt{22}e^2 \otimes e_4 + \frac{96}{2743}\sqrt{503}e^3 \otimes e_9$	{14689, 279}
9531:47	$0, 0, 0, 0, \frac{64}{4449}\sqrt{42}e^{12}, \frac{32}{1483}\sqrt{110}e^{13}, \frac{32}{1483}\sqrt{19}e^{15},$ $\frac{32}{4449}\sqrt{1483}e^{36}, \frac{96}{1483}\sqrt{2}e^{17} + \frac{32}{1483}\sqrt{165}e^{24}$	$(-\frac{112}{1483}, \frac{272}{1483}, \frac{320}{4449}, -\frac{336}{1483}, \frac{160}{1483}, -\frac{16}{4449}, \frac{48}{1483}, \frac{304}{4449}, -\frac{64}{1483})$ $+ \frac{64}{1483}\sqrt{46}e^2 \otimes e_8 + \frac{64}{4449}\sqrt{579}e^3 \otimes e_9$	{14689, 279}
9531:47	$0, 0, 0, 0, \frac{80}{3563}\sqrt{1946}e^{12}, \frac{24}{3563}\sqrt{5282}e^{13}, \frac{8}{3563}\sqrt{45453}e^{15},$ $\frac{8}{3563}\sqrt{29607}e^{36}, \frac{8}{3563}\sqrt{8618}e^{17} + \frac{8}{3563}\sqrt{32387}e^{24}$	$(-\frac{684}{3563}, \frac{2396}{3563}, \frac{768}{3563}, -\frac{2052}{3563}, \frac{1712}{3563}, \frac{12}{509}, \frac{1028}{3563}, \frac{852}{3563}, \frac{344}{3563})$ $+ \frac{16}{3563}\sqrt{101609}e^2 \otimes e_4$	{13456, 145, 23578, 25678}
9531:47	$0, 0, 0, 0, \frac{336}{1237}\sqrt{2}e^{12}, \frac{24}{1237}\sqrt{6}e^{13}, \frac{24}{1237}\sqrt{301}e^{15}, \frac{24}{1237}\sqrt{299}e^{36},$ $\frac{24}{1237}\sqrt{222}e^{17} + \frac{24}{1237}\sqrt{155}e^{24}$	$(-\frac{12}{1237}, \frac{252}{1237}, -\frac{144}{1237}, -\frac{36}{1237}, \frac{240}{1237}, \frac{156}{1237}, \frac{228}{1237}, -\frac{300}{1237}, \frac{216}{1237})$ $+ \frac{48}{1237}\sqrt{187}e^1 \otimes e_8 + \frac{48}{1237}\sqrt{85}e^2 \otimes e_4$	{12367, 127, 348, 468}
9531:47	$0, 0, 0, 0, \frac{336}{1237}\sqrt{2}e^{12}, \frac{24}{1237}\sqrt{6}e^{13}, \frac{24}{1237}\sqrt{301}e^{15}, \frac{24}{1237}\sqrt{299}e^{36},$ $\frac{24}{1237}\sqrt{222}e^{17} + \frac{24}{1237}\sqrt{155}e^{24}$	$(-\frac{12}{1237}, \frac{252}{1237}, -\frac{144}{1237}, -\frac{36}{1237}, \frac{240}{1237}, -\frac{156}{1237}, \frac{228}{1237}, -\frac{300}{1237}, \frac{216}{1237})$ $- \frac{48}{1237}\sqrt{187}e^1 \otimes e_8 + \frac{48}{1237}\sqrt{85}e^2 \otimes e_4$	{12367, 127, 348, 468}
9531:47	$0, 0, 0, 0, \frac{16}{3795}\sqrt{24297}e^{12}, \frac{8}{3795}\sqrt{5874}e^{13}, \frac{24}{1265}\sqrt{267}e^{15},$ $\frac{8}{3795}\sqrt{112585}e^{36}, \frac{8}{3795}\sqrt{42186}e^{17} + \frac{8}{3795}\sqrt{94251}e^{24}$	$(-\frac{4}{115}, \frac{548}{1265}, -\frac{536}{3795}, -\frac{12}{115}, \frac{504}{1265}, -\frac{668}{3795}, \frac{4}{11}, -\frac{1204}{3795}, \frac{416}{1265})$ $+ \frac{16}{1265}\sqrt{7743}e^2 \otimes e_8$	{123679, 1279, 3489, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:48	$0, 0, 0, 0, \frac{8}{1401}\sqrt{18330}e^{12}, \frac{8}{1401}\sqrt{18706}e^{13}, \frac{8}{1401}\sqrt{3995}e^{25},$ $\frac{8}{1401}\sqrt{3995}e^{36}, \frac{8}{1401}\sqrt{8601}e^{14} + \frac{32}{1401}\sqrt{47}e^{27}$	$(\frac{796}{1401}, -\frac{236}{1401}, -\frac{76}{467}, -\frac{236}{467}, \frac{560}{1401}, \frac{568}{1401}, \frac{108}{467}, \frac{340}{1401}, \frac{88}{1401})$ $+ \frac{8}{1401}\sqrt{53862}e^1 \otimes e_4$	{12378, 12678, 346, 4}
9531:48	$0, 0, 0, 0, \frac{32}{4737}\sqrt{21}e^{12}, \frac{32}{1579}\sqrt{23}e^{13}, \frac{48}{1579}\sqrt{11}e^{25}, \frac{16}{4737}\sqrt{1579}e^{36},$ $\frac{16}{1579}\sqrt{7}e^{14} + \frac{16}{1579}\sqrt{170}e^{27}$	$(-\frac{136}{1579}, \frac{56}{1579}, \frac{224}{4737}, \frac{168}{1579}, -\frac{80}{1579}, -\frac{184}{4737}, -\frac{24}{1579}, \frac{40}{4737}, \frac{32}{1579})$ $+ \frac{48}{1579}\sqrt{26}e^2 \otimes e_8 + \frac{64}{4737}\sqrt{129}e^3 \otimes e_9$	{156789, 2459}
9531:48	$0, 0, 0, 0, \frac{160}{1497}\sqrt{21}e^{12}, \frac{32}{1497}\sqrt{15}e^{13}, \frac{16}{1497}\sqrt{2495}e^{25},$ $\frac{16}{1497}\sqrt{2495}e^{36}, \frac{16}{1497}\sqrt{1005}e^{14} + \frac{16}{1497}\sqrt{2130}e^{27}$	$(\frac{8}{499}, \frac{152}{1497}, -\frac{256}{1497}, \frac{152}{499}, \frac{176}{1497}, -\frac{232}{1497}, \frac{328}{1497}, -\frac{488}{1497}, \frac{160}{499})$ $+ \frac{16}{499}\sqrt{690}e^2 \otimes e_8$	{1345789, 1456789, 23569, 259}
9531:48	$0, 0, 0, 0, \frac{8}{1401}\sqrt{1722}e^{12}, \frac{16}{1401}\sqrt{861}e^{13}, \frac{24}{467}\sqrt{41}e^{25},$ $\frac{8}{1401}\sqrt{19147}e^{36}, \frac{8}{1401}\sqrt{22017}e^{14} + \frac{16}{1401}\sqrt{861}e^{27}$	$(-\frac{56}{467}, \frac{96}{467}, -\frac{140}{1401}, \frac{288}{467}, \frac{40}{467}, -\frac{308}{1401}, \frac{136}{467}, -\frac{448}{1401}, \frac{232}{467})$ $+ \frac{8}{1401}\sqrt{47478}e^4 \otimes e_8$	{123456, 1245, 3578, 5678}
9531:48	$0, 0, 0, 0, \frac{4}{351}\sqrt{390}e^{12}, \frac{4}{351}\sqrt{1534}e^{13}, \frac{4}{351}\sqrt{195}e^{25}, \frac{4}{351}\sqrt{1105}e^{36},$ $\frac{4}{117}\sqrt{39}e^{14} + \frac{4}{351}\sqrt{1118}e^{27}$	$(\frac{2}{27}, -\frac{2}{27}, \frac{4}{27}, -\frac{2}{9}, 0, \frac{2}{9}, -\frac{2}{27}, \frac{10}{27}, -\frac{4}{27})$ $+ \frac{16}{351}\sqrt{78}e^1 \otimes e_4 + \frac{4}{351}\sqrt{2730}e^3 \otimes e_9$	{125689, 4579}
9531:48	$0, 0, 0, 0, \frac{4}{221}\sqrt{118}e^{12}, \frac{4}{221}\sqrt{122}e^{13}, \frac{4}{221}\sqrt{23}e^{25}, \frac{4}{221}\sqrt{221}e^{36},$ $\frac{4}{221}\sqrt{179}e^{14} + \frac{4}{221}\sqrt{122}e^{27}$	$(-\frac{38}{221}, \frac{14}{221}, \frac{28}{221}, \frac{42}{221}, -\frac{24}{221}, -\frac{10}{221}, -\frac{10}{221}, \frac{18}{221}, \frac{4}{221})$ $+ \frac{4}{221}\sqrt{358}e^3 \otimes e_9 + \frac{8}{221}\sqrt{59}e^4 \otimes e_8$	{125689, 4579}
9531:48	$0, 0, 0, 0, \frac{4}{1473}\sqrt{29382}e^{12}, \frac{4}{491}\sqrt{4814}e^{13}, \frac{12}{491}\sqrt{83}e^{25},$ $\frac{4}{1473}\sqrt{40753}e^{36}, \frac{4}{491}\sqrt{2407}e^{14} + \frac{4}{491}\sqrt{4814}e^{27}$	$(-\frac{62}{491}, -\frac{2}{491}, \frac{460}{1473}, -\frac{6}{491}, -\frac{64}{491}, \frac{274}{1473}, -\frac{66}{491}, \frac{734}{1473}, -\frac{68}{491})$ $+ \frac{4}{1473}\sqrt{102090}e^3 \otimes e_9$	{125689, 1348, 2367, 4579}
9531:49	$0, 0, 0, 0, \frac{59}{1647}\sqrt{106}e^{12}, \frac{59}{4941}\sqrt{1086}e^{13}, \frac{118}{4941}\sqrt{55}e^{15},$ $\frac{236}{4941}\sqrt{37}e^{16} + \frac{118}{4941}\sqrt{66}e^{24}, \frac{118}{4941}\sqrt{373}e^{17}$	$(-\frac{1003}{4941}, \frac{649}{1647}, \frac{2419}{4941}, -\frac{1534}{4941}, \frac{944}{4941}, \frac{472}{1647}, -\frac{59}{4941}, \frac{413}{4941}, -\frac{118}{549})$ $+ \frac{59}{1647}\sqrt{530}e^3 \otimes e_9 + \frac{59}{4941}\sqrt{3958}e^2 \otimes e_4$	{145689, 25789}
9531:49	$0, 0, 0, 0, \frac{3}{566}\sqrt{11690}e^{12}, \frac{3}{566}\sqrt{12390}e^{13}, \frac{3}{566}\sqrt{11795}e^{15},$ $\frac{3}{566}\sqrt{17430}e^{16} + \frac{18}{283}\sqrt{105}e^{24}, \frac{15}{566}\sqrt{770}e^{17}$	$(-\frac{105}{566}, \frac{183}{566}, \frac{513}{1132}, -\frac{273}{1132}, \frac{39}{283}, \frac{303}{1132}, -\frac{27}{566}, \frac{93}{1132}, -\frac{66}{283})$ $+ \frac{21}{566}\sqrt{695}e^2 \otimes e_9$	{123678, 1247, 1345689, 159}
9531:49	$0, 0, 0, 0, \frac{41}{2133}\sqrt{590}e^{12}, \frac{82}{6399}\sqrt{930}e^{13}, \frac{82}{6399}\sqrt{1090}e^{15},$ $\frac{41}{6399}\sqrt{898}e^{16} + \frac{164}{6399}\sqrt{69}e^{24}, \frac{41}{6399}\sqrt{2590}e^{17}$	$(\frac{410}{6399}, \frac{205}{2133}, -\frac{1271}{6399}, -\frac{1066}{6399}, \frac{1025}{6399}, -\frac{287}{2133}, \frac{1435}{6399}, -\frac{451}{6399}, \frac{205}{711})$ $+ \frac{164}{6399}\sqrt{271}e^2 \otimes e_4 + \frac{41}{2133}\sqrt{818}e^1 \otimes e_3$	{127, 1459}
9531:49	$0, 0, 0, 0, \frac{76}{1125}\sqrt{41}e^{12}, \frac{19}{375}\sqrt{82}e^{13}, \frac{1}{1125}\sqrt{356782}e^{15},$ $\frac{8}{1125}\sqrt{8569}e^{16} + \frac{1}{1125}\sqrt{845994}e^{24}, \frac{4}{225}\sqrt{2337}e^{17}$	$(\frac{2}{225}, -\frac{227}{1125}, \frac{67}{225}, \frac{194}{375}, -\frac{217}{1125}, \frac{23}{75}, -\frac{23}{125}, \frac{71}{225}, -\frac{197}{1125})$ $+ \frac{31}{1125}\sqrt{1558}e^4 \otimes e_9$	{1235689, 134678, 246, 5679}
9531:49	$0, 0, 0, 0, \frac{1}{18}\sqrt{19}e^{12}, \frac{1}{18}\sqrt{39}e^{13}, \frac{7}{18}e^{15}, \frac{5}{18}e^{16} + \frac{1}{6}\sqrt{3}e^{24},$ $\frac{1}{6}\sqrt{7}e^{17}$	$(\frac{1}{9}, -\frac{2}{9}, -\frac{1}{9}, \frac{1}{3}, -\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{1}{9})$ $- \frac{1}{18}\sqrt{61}e^4 \otimes e_9 + \frac{1}{18}\sqrt{69}e^1 \otimes e_3$	{1247, 159, 235789, 348}
9531:49	$0, 0, 0, 0, \frac{1}{18}\sqrt{19}e^{12}, \frac{1}{18}\sqrt{39}e^{13}, \frac{7}{18}e^{15}, \frac{5}{18}e^{16} + \frac{1}{6}\sqrt{3}e^{24},$ $\frac{1}{6}\sqrt{7}e^{17}$	$(\frac{1}{9}, -\frac{2}{9}, -\frac{1}{9}, \frac{1}{3}, -\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{18}\sqrt{61}e^4 \otimes e_9 + \frac{1}{18}\sqrt{69}e^1 \otimes e_3$	{1247, 159, 235789, 348}
9531:49	$0, 0, 0, 0, \frac{18}{5957}\sqrt{1033}e^{12}, \frac{27}{5957}\sqrt{474}e^{13}, \frac{9}{5957}\sqrt{4558}e^{15},$ $\frac{9}{5957}\sqrt{3066}e^{16} + \frac{18}{5957}\sqrt{453}e^{24}, \frac{9}{5957}\sqrt{5038}e^{17}$	$(-\frac{27}{5957}, \frac{279}{5957}, -\frac{108}{5957}, -\frac{63}{851}, \frac{36}{851}, -\frac{135}{5957}, \frac{225}{5957}, -\frac{162}{5957}, \frac{198}{5957})$ $+ \frac{18}{5957}\sqrt{1353}e^1 \otimes e_3 + \frac{18}{5957}\sqrt{1393}e^2 \otimes e_9$	{1247, 159}
9531:49	$0, 0, 0, 0, \frac{6}{2273}\sqrt{55195}e^{12}, \frac{6}{2273}\sqrt{94430}e^{13}, \frac{12}{2273}\sqrt{3458}e^{15},$ $\frac{12}{2273}\sqrt{266}e^{16} + \frac{6}{2273}\sqrt{36043}e^{24}, \frac{6}{2273}\sqrt{88046}e^{17}$	$(-\frac{455}{2273}, \frac{534}{2273}, \frac{1563}{2273}, \frac{119}{2273}, \frac{79}{2273}, \frac{1108}{2273}, -\frac{376}{2273}, \frac{653}{2273}, -\frac{831}{2273})$ $+ \frac{42}{2273}\sqrt{5111}e^3 \otimes e_9$	{123457, 14689, 2789, 356}
9531:49	$0, 0, 0, 0, \frac{1}{1141}\sqrt{556278}e^{12}, \frac{16}{1141}\sqrt{2001}e^{13}, \frac{4}{1141}\sqrt{43355}e^{15},$ $\frac{1}{1141}\sqrt{46690}e^{16} + \frac{12}{1141}\sqrt{667}e^{24}, \frac{1}{1141}\sqrt{508254}e^{17}$	$(\frac{242}{1141}, -\frac{179}{1141}, -\frac{425}{1141}, \frac{34}{163}, \frac{9}{163}, -\frac{183}{1141}, \frac{305}{1141}, \frac{59}{1141}, \frac{547}{1141})$ $+ \frac{5}{1141}\sqrt{52026}e^1 \otimes e_3$	{127, 1459, 2345789, 38}
9531:49	$0, 0, 0, 0, \frac{4}{2187}\sqrt{35669}e^{12}, \frac{28}{2187}\sqrt{2019}e^{13}, \frac{2}{2187}\sqrt{410530}e^{15},$ $\frac{2}{2187}\sqrt{345922}e^{16} + \frac{2}{2187}\sqrt{149406}e^{24}, \frac{2}{2187}\sqrt{17498}e^{17}$	$(-\frac{331}{2187}, \frac{448}{729}, \frac{658}{2187}, -\frac{1348}{2187}, \frac{1013}{2187}, \frac{109}{729}, \frac{682}{2187}, -\frac{4}{2187}, \frac{13}{81})$ $+ \frac{2}{2187}\sqrt{2453758}e^2 \otimes e_4$	{1279, 145, 2567, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:50	$0, 0, 0, 0, \frac{160}{441}\sqrt{3}e^{12}, \frac{32}{441}\sqrt{14}e^{13}, \frac{16}{441}\sqrt{394}e^{25},$ $\frac{32}{441}\sqrt{11}e^{16} + \frac{160}{441}\sqrt{3}e^{24}, \frac{16}{63}\sqrt{6}e^{27}$	$(-\frac{26}{147}, \frac{97}{441}, \frac{94}{441}, -\frac{53}{147}, \frac{19}{441}, \frac{16}{441}, \frac{116}{441}, -\frac{62}{441}, \frac{71}{147})$ $+\frac{80}{441}\sqrt{30}e^2 \otimes e_4$	{12367, 1345679, 2359, 34}
9531:50	$0, 0, 0, 0, \frac{1}{274}\sqrt{3354}e^{12}, \frac{3}{274}\sqrt{2494}e^{13}, \frac{1}{274}\sqrt{10707}e^{25},$ $\frac{1}{274}\sqrt{29154}e^{16} + \frac{3}{137}\sqrt{559}e^{24}, \frac{1}{274}\sqrt{29154}e^{27}$	$(\frac{61}{274}, -\frac{43}{274}, -\frac{81}{548}, \frac{249}{548}, \frac{9}{137}, \frac{41}{548}, -\frac{25}{274}, \frac{163}{548}, -\frac{34}{137})$ $+\frac{1}{274}\sqrt{58695}e^1 \otimes e_9$	{123478, 1267, 2345689, 259}
9531:50	$0, 0, 0, 0, \frac{1}{127}\sqrt{10426}e^{12}, \frac{1}{381}\sqrt{13634}e^{13}, \frac{2}{381}\sqrt{9223}e^{25},$ $\frac{4}{381}\sqrt{5614}e^{16} + \frac{4}{127}\sqrt{401}e^{24}, \frac{1}{381}\sqrt{5614}e^{27}$	$(\frac{169}{381}, -\frac{32}{381}, \frac{232}{381}, \frac{46}{127}, \frac{137}{381}, -\frac{21}{127}, \frac{35}{127}, \frac{106}{381}, \frac{73}{381})$ $+\frac{1}{127}\sqrt{28070}e^1 \otimes e_3$	{12478, 15789, 2359, 34}
9531:50	$0, 0, 0, 0, \frac{1}{6}\sqrt{3}e^{12}, \frac{1}{6}e^{13}, \frac{1}{6}e^{25}, \frac{1}{6}\sqrt{7}e^{16} + \frac{1}{6}\sqrt{3}e^{24},$ $\frac{1}{6}\sqrt{7}e^{27}$	$(\frac{1}{3}, -\frac{1}{6}, -\frac{1}{3}, \frac{1}{2}, \frac{1}{6}, 0, 0, \frac{1}{3}, -\frac{1}{6})$ $+\frac{1}{6}\sqrt{21}e^1 \otimes e_3 + \frac{1}{6}\sqrt{21}e^4 \otimes e_9$	{12467, 15679, 235689, 3468}
9531:50	$0, 0, 0, 0, \frac{1}{6}\sqrt{3}e^{12}, \frac{1}{6}e^{13}, \frac{1}{6}e^{25}, \frac{1}{6}\sqrt{7}e^{16} + \frac{1}{6}\sqrt{3}e^{24},$ $\frac{1}{6}\sqrt{7}e^{27}$	$(\frac{1}{3}, -\frac{1}{6}, -\frac{1}{3}, \frac{1}{2}, \frac{1}{6}, 0, 0, \frac{1}{3}, -\frac{1}{6})$ $+\frac{1}{6}\sqrt{21}e^1 \otimes e_3 - \frac{1}{6}\sqrt{21}e^4 \otimes e_9$	{12467, 15679, 235689, 3468}
9531:50	$0, 0, 0, 0, \frac{205}{6741}\sqrt{42}e^{12}, \frac{41}{6741}\sqrt{1894}e^{13}, \frac{2542}{6741}e^{25},$ $\frac{82}{6741}\sqrt{311}e^{16} + \frac{410}{6741}\sqrt{33}e^{24}, \frac{82}{6741}\sqrt{1311}e^{27}$	$(-\frac{451}{2247}, \frac{697}{6741}, \frac{2419}{6741}, \frac{328}{2247}, -\frac{656}{6741}, \frac{1066}{6741}, \frac{41}{963}, -\frac{41}{749}, \frac{82}{6741})$ $+\frac{205}{2247}\sqrt{30}e^2 \otimes e_4 + \frac{205}{6741}\sqrt{210}e^3 \otimes e_9$	{145679, 259}
9531:50	$0, 0, 0, 0, \frac{4}{127}\sqrt{401}e^{12}, \frac{2}{381}\sqrt{9223}e^{13}, \frac{1}{381}\sqrt{13634}e^{25},$ $\frac{1}{381}\sqrt{5614}e^{16} + \frac{4}{127}\sqrt{10426}e^{24}, \frac{4}{381}\sqrt{5614}e^{27}$	$(\frac{85}{381}, -\frac{74}{381}, \frac{20}{381}, \frac{88}{127}, \frac{11}{381}, \frac{35}{127}, -\frac{21}{127}, \frac{190}{381}, -\frac{137}{381})$ $+\frac{1}{127}\sqrt{28070}e^4 \otimes e_9$	{124567, 1679, 23689, 34568}
9531:50	$0, 0, 0, 0, \frac{6}{8197}\sqrt{821}e^{12}, \frac{9}{8197}\sqrt{222}e^{13}, \frac{24}{8197}\sqrt{74}e^{25},$ $\frac{3}{1171}\sqrt{78}e^{16} + \frac{36}{8197}\sqrt{38}e^{24}, \frac{3}{8197}\sqrt{6194}e^{27}$	$(\frac{87}{8197}, -\frac{3}{8197}, -\frac{27}{1171}, -\frac{12}{8197}, \frac{12}{1171}, -\frac{102}{8197}, \frac{81}{8197}, -\frac{15}{8197}, \frac{78}{8197})$ $+\frac{3}{8197}\sqrt{7658}e^1 \otimes e_9 + \frac{6}{8197}\sqrt{1779}e^2 \otimes e_4$	{1267, 259}
9531:50	$0, 0, 0, 0, \frac{10}{3177}\sqrt{40953}e^{12}, \frac{2}{3177}\sqrt{1655494}e^{13}, \frac{4}{3177}\sqrt{88111}e^{25},$ $\frac{2}{3177}\sqrt{693719}e^{16} + \frac{20}{3177}\sqrt{3723}e^{24}, \frac{2}{3177}\sqrt{1779594}e^{27}$	$(-\frac{172}{1059}, -\frac{41}{3177}, \frac{1843}{3177}, \frac{284}{1059}, -\frac{557}{3177}, \frac{1327}{3177}, -\frac{598}{3177}, \frac{811}{3177}, -\frac{71}{353})$ $+\frac{10}{3177}\sqrt{130305}e^3 \otimes e_9$	{12569, 138, 234678, 4579}
9531:50	$0, 0, 0, 0, \frac{11}{149}\sqrt{30}e^{12}, \frac{66}{1043}\sqrt{10}e^{13}, \frac{11}{1043}\sqrt{1310}e^{25},$ $\frac{33}{1043}\sqrt{62}e^{16} + \frac{22}{1043}\sqrt{314}e^{24}, \frac{22}{1043}\sqrt{205}e^{27}$	$(\frac{55}{1043}, \frac{165}{2086}, -\frac{187}{1043}, -\frac{319}{2086}, \frac{275}{2086}, -\frac{132}{1043}, \frac{220}{1043}, -\frac{11}{149}, \frac{605}{2086})$ $+\frac{11}{1043}\sqrt{1498}e^1 \otimes e_3 + \frac{22}{1043}\sqrt{571}e^2 \otimes e_4$	{2359, 34}
9531:51	$0, 0, 0, 0, \frac{11}{371}\sqrt{435}e^{12}, \frac{22}{371}\sqrt{186}e^{13}, \frac{66}{371}\sqrt{7}e^{25},$ $\frac{66}{371}\sqrt{15}e^{15} + \frac{11}{371}\sqrt{129}e^{23}, \frac{22}{371}\sqrt{210}e^{14} + \frac{33}{371}\sqrt{7}e^{27}$	$(-\frac{44}{371}, \frac{11}{53}, -\frac{88}{371}, \frac{33}{53}, \frac{33}{371}, -\frac{132}{371}, \frac{110}{371}, -\frac{11}{371}, \frac{187}{371})$ $+\frac{33}{371}\sqrt{209}e^4 \otimes e_6$	{169, 24789}
9531:51	$0, 0, 0, 0, \frac{22}{595}\sqrt{103}e^{12}, \frac{132}{595}\sqrt{7}e^{13}, \frac{22}{595}\sqrt{239}e^{25},$ $\frac{22}{595}\sqrt{69}e^{15} + \frac{22}{595}\sqrt{53}e^{23}, \frac{22}{595}\sqrt{142}e^{14} + \frac{22}{595}\sqrt{229}e^{27}$	$(-\frac{11}{119}, \frac{11}{85}, -\frac{22}{119}, \frac{33}{85}, \frac{22}{595}, -\frac{33}{119}, \frac{99}{595}, -\frac{33}{595}, \frac{176}{595})$ $+\frac{22}{595}\sqrt{506}e^2 \otimes e_6$	{1456789, 259}
9531:51	$0, 0, 0, 0, \frac{22}{547}\sqrt{221}e^{12}, \frac{44}{547}\sqrt{42}e^{13}, \frac{66}{547}e^{25},$ $\frac{66}{547}\sqrt{21}e^{15} + \frac{330}{547}e^{23}, \frac{44}{547}\sqrt{57}e^{14} + \frac{22}{547}\sqrt{105}e^{27}$	$(\frac{77}{547}, -\frac{55}{547}, \frac{154}{547}, -\frac{165}{547}, \frac{22}{547}, \frac{231}{547}, -\frac{33}{547}, \frac{99}{547}, -\frac{88}{547})$ $+\frac{484}{547}e^3 \otimes e_9$	{125689, 4579}
9531:51	$0, 0, 0, 0, \frac{22}{547}\sqrt{263}e^{12}, \frac{44}{547}\sqrt{42}e^{13}, \frac{66}{547}e^{25},$ $\frac{22}{547}\sqrt{295}e^{15} + \frac{22}{547}\sqrt{259}e^{23}, \frac{44}{547}e^{14} + \frac{22}{547}\sqrt{105}e^{27}$	$(\frac{77}{547}, -\frac{55}{547}, \frac{154}{547}, -\frac{165}{547}, \frac{22}{547}, \frac{231}{547}, -\frac{33}{547}, \frac{99}{547}, -\frac{88}{547})$ $+\frac{484}{547}e^1 \otimes e_4$	{12378, 346}
9531:52	$0, 0, 0, 0, \frac{39}{3881}\sqrt{2534}e^{12}, \frac{39}{3881}\sqrt{2858}e^{13}, \frac{702}{3881}\sqrt{2}e^{15},$ $\frac{39}{3881}\sqrt{4954}e^{14} + \frac{117}{3881}\sqrt{374}e^{25}, \frac{39}{3881}\sqrt{1010}e^{17} + \frac{39}{3881}\sqrt{5170}e^{23}$	$(-\frac{273}{3881}, \frac{702}{3881}, -\frac{819}{3881}, \frac{1404}{3881}, \frac{429}{3881}, -\frac{1092}{3881}, \frac{156}{3881}, \frac{1131}{3881}, -\frac{117}{3881})$ $+\frac{156}{3881}\sqrt{443}e^4 \otimes e_9$	{12589, 3579}
9531:52	$0, 0, 0, 0, \frac{38}{1053}\sqrt{218}e^{12}, \frac{19}{1053}\sqrt{506}e^{13}, \frac{38}{1053}\sqrt{183}e^{15},$ $\frac{19}{1053}\sqrt{1066}e^{14} + \frac{19}{1053}\sqrt{470}e^{25}, \frac{38}{1053}\sqrt{218}e^{17} + \frac{19}{1053}\sqrt{822}e^{23}$	$(\frac{95}{1053}, -\frac{133}{1053}, \frac{95}{351}, -\frac{266}{1053}, -\frac{38}{1053}, \frac{380}{1053}, \frac{19}{351}, -\frac{19}{117}, \frac{152}{1053})$ $+\frac{38}{1053}\sqrt{463}e^1 \otimes e_4$	{2345679, 346}
9531:52	$0, 0, 0, 0, \frac{217}{996}\sqrt{7}e^{12}, \frac{31}{498}\sqrt{179}e^{13}, \frac{217}{996}\sqrt{2}e^{15},$ $\frac{31}{996}\sqrt{814}e^{14} + \frac{31}{498}\sqrt{22}e^{25}, \frac{217}{996}\sqrt{7}e^{17} + \frac{31}{166}\sqrt{3}e^{23}$	$(-\frac{31}{332}, \frac{589}{1992}, -\frac{93}{332}, \frac{589}{996}, \frac{403}{1992}, -\frac{31}{83}, \frac{217}{1992}, \frac{124}{249}, \frac{31}{1992})$ $+\frac{31}{996}\sqrt{1726}e^4 \otimes e_6$	{1256789, 168, 2367, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:52	$0, 0, 0, 0, \frac{94}{4213}\sqrt{717e^{12}}, \frac{141}{4213}\sqrt{398e^{13}}, \frac{94}{4213}\sqrt{357e^{15}},$ $\frac{141}{4213}\sqrt{274e^{14}} + \frac{47}{4213}\sqrt{4274e^{25}}, \frac{282}{4213}\sqrt{22e^{17}} + \frac{47}{4213}\sqrt{502e^{23}}$	$(-\frac{329}{4213}, \frac{893}{4213}, -\frac{987}{4213}, \frac{1786}{4213}, \frac{564}{4213}, -\frac{1316}{4213}, \frac{235}{4213}, \frac{1457}{4213}, -\frac{94}{4213})$ $+ \frac{94}{4213}\sqrt{1830e^2} \otimes e_6$	{1456789, 3467}
9531:52	$0, 0, 0, 0, \frac{217}{996}\sqrt{7e^{12}}, \frac{31}{498}\sqrt{179e^{13}}, \frac{217}{166}\sqrt{2e^{15}},$ $\frac{31}{996}\sqrt{814e^{14}} + \frac{31}{498}\sqrt{22e^{25}}, \frac{217}{996}\sqrt{7e^{17}} + \frac{31}{166}\sqrt{3e^{23}}$	$(-\frac{31}{332}, \frac{589}{1992}, -\frac{93}{332}, \frac{589}{996}, \frac{403}{1992}, -\frac{31}{83}, \frac{217}{1992}, \frac{124}{249}, \frac{31}{1992})$ $- \frac{31}{996}\sqrt{1726e^4} \otimes e_6$	{1256789, 168, 2367, 3569}
9531:53	$0, 0, 0, 0, \frac{132}{527}\sqrt{5e^{12}}, \frac{12}{527}\sqrt{1105e^{13}}, \frac{36}{527}\sqrt{5e^{15}},$ $\frac{48}{527}\sqrt{35e^{14}} + \frac{36}{527}\sqrt{5e^{25}}, \frac{12}{527}\sqrt{530e^{17}} + \frac{12}{527}\sqrt{1105e^{24}}$	$(-\frac{12}{527}, -\frac{18}{527}, \frac{18}{31}, -\frac{36}{527}, -\frac{30}{527}, \frac{294}{527}, -\frac{42}{527}, -\frac{48}{527}, -\frac{54}{527})$ $+ \frac{12}{527}\sqrt{2270e^3} \otimes e_9$	{1234578, 14689}
9531:53	$0, 0, 0, 0, \frac{44}{2659}\sqrt{665e^{12}}, \frac{44}{2659}\sqrt{1231e^{13}}, \frac{44}{2659}\sqrt{367e^{15}},$ $\frac{352}{2659}\sqrt{13e^{14}} + \frac{44}{2659}\sqrt{1031e^{25}}, \frac{440}{2659}\sqrt{5e^{17}} + \frac{132}{2659}\sqrt{85e^{24}}$	$(\frac{132}{2659}, \frac{198}{2659}, -\frac{902}{2659}, \frac{396}{2659}, \frac{330}{2659}, -\frac{770}{2659}, \frac{462}{2659}, \frac{528}{2659}, \frac{594}{2659})$ $+ \frac{44}{2659}\sqrt{2330e^2} \otimes e_6$	{12348, 1456789}
9531:53	$0, 0, 0, 0, \frac{35}{244}\sqrt{15e^{12}}, \frac{5}{122}\sqrt{295e^{13}}, \frac{5}{122}\sqrt{110e^{15}},$ $\frac{45}{244}\sqrt{10e^{14}} + \frac{5}{122}\sqrt{110e^{25}}, \frac{35}{244}\sqrt{15e^{17}} + \frac{5}{122}\sqrt{295e^{24}}$	$(\frac{15}{244}, \frac{45}{488}, -\frac{95}{244}, \frac{45}{244}, \frac{75}{488}, -\frac{20}{61}, \frac{105}{488}, \frac{15}{61}, \frac{135}{488})$ $+ \frac{5}{244}\sqrt{2210e^4} \otimes e_6$	{1256789, 168}
9531:53	$0, 0, 0, 0, \frac{87}{1268}\sqrt{35e^{12}}, \frac{29}{1268}\sqrt{1086e^{13}}, \frac{29}{634}\sqrt{206e^{15}},$ $\frac{29}{634}\sqrt{183e^{14}} + \frac{58}{317}\sqrt{15e^{25}}, \frac{87}{1268}\sqrt{35e^{17}} + \frac{87}{634}\sqrt{7e^{24}}$	$(-\frac{29}{1268}, -\frac{87}{2536}, \frac{725}{1268}, -\frac{87}{1268}, -\frac{145}{2536}, \frac{174}{317}, -\frac{203}{2536}, \frac{29}{317}, -\frac{261}{2536})$ $+ \frac{29}{1268}\sqrt{2230e^3} \otimes e_8$	{1234579, 134}
9531:53	$0, 0, 0, 0, \frac{69}{1292}\sqrt{105e^{12}}, \frac{23}{646}\sqrt{269e^{13}}, \frac{207}{1292}\sqrt{14e^{15}},$ $\frac{23}{1292}\sqrt{498e^{14}} + \frac{23}{323}\sqrt{15e^{25}}, \frac{69}{1292}\sqrt{105e^{17}} + \frac{23}{1292}\sqrt{618e^{24}}$	$(\frac{69}{1292}, \frac{207}{2584}, -\frac{115}{323}, \frac{207}{1292}, \frac{345}{2584}, -\frac{23}{76}, \frac{483}{2584}, \frac{69}{323}, \frac{621}{2584})$ $+ \frac{23}{1292}\sqrt{2290e^1} \otimes e_3$	{2345789, 348}
9531:54	$0, 0, 0, 0, \frac{122}{5373}\sqrt{745e^{12}}, \frac{61}{5373}\sqrt{4402e^{13}}, \frac{244}{5373}\sqrt{86e^{25}},$ $\frac{61}{5373}\sqrt{2170e^{15}} + \frac{61}{5373}\sqrt{382e^{24}}, \frac{61}{5373}\sqrt{2690e^{14}} + \frac{61}{5373}\sqrt{3806e^{27}}$	$(-\frac{61}{1791}, -\frac{122}{5373}, \frac{3172}{5373}, -\frac{122}{1791}, -\frac{305}{5373}, \frac{2989}{5373}, -\frac{427}{5373}, -\frac{488}{5373}, -\frac{61}{597})$ $+ \frac{61}{5373}\sqrt{9170e^3} \otimes e_9$	{134, 4579}
9531:54	$0, 0, 0, 0, \frac{98}{4973}\sqrt{910e^{12}}, \frac{98}{4973}\sqrt{1229e^{13}}, \frac{98}{4973}\sqrt{30e^{25}},$ $\frac{49}{4973}\sqrt{3994e^{15}} + \frac{245}{4973}\sqrt{214e^{24}}, \frac{196}{4973}\sqrt{177e^{14}} + \frac{49}{4973}\sqrt{1182e^{27}}$	$(\frac{441}{4973}, \frac{294}{4973}, -\frac{1960}{4973}, \frac{882}{4973}, \frac{735}{4973}, -\frac{1519}{4973}, \frac{1029}{4973}, \frac{1176}{4973}, \frac{1323}{4973})$ $+ \frac{245}{4973}\sqrt{358e^4} \otimes e_6$	{1256789, 2368}
9531:54	$0, 0, 0, 0, \frac{41}{5573}\sqrt{830e^{12}}, \frac{82}{5573}\sqrt{1291e^{13}}, \frac{41}{5573}\sqrt{3578e^{25}},$ $\frac{41}{5573}\sqrt{2422e^{15}} + \frac{41}{5573}\sqrt{2834e^{24}}, \frac{369}{5573}\sqrt{34e^{14}} + \frac{82}{5573}\sqrt{853e^{27}}$	$(\frac{369}{5573}, \frac{246}{5573}, -\frac{1804}{5573}, \frac{738}{5573}, \frac{615}{5573}, -\frac{1435}{5573}, \frac{861}{5573}, \frac{984}{5573}, \frac{1107}{5573})$ $+ \frac{41}{5573}\sqrt{9590e^2} \otimes e_6$	{1456789, 3468}
9531:54	$0, 0, 0, 0, \frac{147}{4973}\sqrt{590e^{12}}, \frac{49}{4973}\sqrt{4034e^{13}}, \frac{98}{4973}\sqrt{30e^{25}},$ $\frac{98}{4973}\sqrt{1239e^{15}} + \frac{2940}{4973}e^{24}, \frac{196}{4973}\sqrt{177e^{14}} + \frac{49}{4973}\sqrt{1182e^{27}}$	$(\frac{441}{4973}, \frac{294}{4973}, -\frac{1960}{4973}, \frac{882}{4973}, \frac{735}{4973}, -\frac{1519}{4973}, \frac{1029}{4973}, \frac{1176}{4973}, \frac{1323}{4973})$ $+ \frac{245}{4973}\sqrt{358e^1} \otimes e_3$	{1248, 2345789}
9531:54	$0, 0, 0, 0, \frac{1770}{5173}\sqrt{2e^{12}}, \frac{118}{5173}\sqrt{1082e^{13}}, \frac{59}{5173}\sqrt{1798e^{25}},$ $\frac{118}{5173}\sqrt{481e^{15}} + \frac{177}{5173}\sqrt{534e^{24}}, \frac{59}{5173}\sqrt{2762e^{14}} + \frac{118}{5173}\sqrt{91e^{27}}$	$(-\frac{177}{5173}, -\frac{118}{5173}, \frac{3009}{5173}, -\frac{354}{5173}, -\frac{295}{5173}, \frac{2832}{5173}, -\frac{59}{5173}, -\frac{472}{5173}, -\frac{531}{5173})$ $+ \frac{59}{5173}\sqrt{9010e^3} \otimes e_8$	{146789, 458}
9531:57	$0, 0, 0, 0, \frac{2}{15}\sqrt{35e^{12}}, \frac{4}{45}\sqrt{42e^{34}}, \frac{4}{45}\sqrt{42e^{15}},$ $\frac{2}{15}\sqrt{35e^{13}} + \frac{4}{45}\sqrt{42e^{46}}, \frac{2}{15}\sqrt{35e^{17}}$	$(-\frac{14}{45}, \frac{2}{3}, \frac{16}{45}, -\frac{7}{45}, \frac{16}{45}, \frac{1}{5}, \frac{2}{45}, \frac{2}{45}, -\frac{4}{15})$ $+ \frac{4}{15}\sqrt{21e^2} \otimes e_9$	{123478, 123678, 12467, 127, 134589, 135689, 14569, 159}
9531:57	$0, 0, 0, 0, \frac{2}{15}\sqrt{35e^{12}}, \frac{4}{45}\sqrt{42e^{34}}, \frac{4}{45}\sqrt{42e^{15}},$ $\frac{2}{15}\sqrt{35e^{13}} + \frac{4}{45}\sqrt{42e^{46}}, \frac{2}{15}\sqrt{35e^{17}}$	$(-\frac{14}{45}, \frac{2}{3}, \frac{16}{45}, -\frac{7}{45}, \frac{16}{45}, \frac{1}{5}, \frac{2}{45}, \frac{2}{45}, -\frac{4}{15})$ $- \frac{4}{15}\sqrt{21e^2} \otimes e_9$	{123478, 123678, 12467, 127, 134589, 135689, 14569, 159}
9531:57	$0, 0, 0, 0, \frac{184}{4471}\sqrt{15e^{12}}, \frac{184}{4471}\sqrt{62e^{34}}, \frac{23}{4471}\sqrt{1798e^{15}},$ $\frac{1472}{4471}e^{13} + \frac{23}{4471}\sqrt{4346e^{46}}, \frac{184}{4471}\sqrt{57e^{17}}$	$(-\frac{506}{4471}, \frac{736}{4471}, \frac{713}{4471}, -\frac{253}{4471}, \frac{230}{4471}, \frac{460}{4471}, -\frac{276}{4471}, \frac{207}{4471}, -\frac{46}{263})$ $+ \frac{207}{4471}\sqrt{14e^2} \otimes e_8 + \frac{23}{4471}\sqrt{6510e^4} \otimes e_9$	{12467, 135689}
9531:57	$0, 0, 0, 0, \frac{1}{37}\sqrt{6e^{12}}, \frac{3}{37}\sqrt{10e^{34}}, \frac{3}{37}\sqrt{6e^{15}},$ $\frac{3}{37}\sqrt{10e^{13}} + \frac{3}{37}\sqrt{10e^{46}}, \frac{1}{37}\sqrt{102e^{17}}$	$(0, -\frac{3}{37}, \frac{5}{37}, 0, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37})$ $+ \frac{1}{37}\sqrt{42e^1} \otimes e_2 + \frac{5}{37}\sqrt{6e^4} \otimes e_9$	{135689, 159}
9531:57	$0, 0, 0, 0, \frac{4}{157}\sqrt{33e^{12}}, \frac{2}{157}\sqrt{902e^{34}}, \frac{2}{157}\sqrt{418e^{15}},$ $\frac{2}{157}\sqrt{979e^{13}} + \frac{2}{157}\sqrt{902e^{46}}, \frac{2}{157}\sqrt{858e^{17}}$	$(-\frac{14}{157}, \frac{13}{157}, \frac{32}{157}, -\frac{7}{157}, -\frac{1}{157}, \frac{25}{157}, -\frac{15}{157}, \frac{18}{157}, -\frac{29}{157})$ $+ \frac{44}{157}\sqrt{3e^4} \otimes e_9$	{123478, 12467, 135689, 159}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:57	$0, 0, 0, 0, \frac{6}{37}\sqrt{3}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{4}{37}\sqrt{5}e^{15},$ $\frac{2}{37}\sqrt{41}e^{13} + \frac{4}{37}\sqrt{2}e^{46}, \frac{2}{37}\sqrt{57}e^{17}$	$(\frac{2}{37}, -\frac{8}{37}, \frac{8}{37}, \frac{1}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{4}{37}, \frac{10}{37}, -\frac{2}{37})$ $+\frac{4}{37}\sqrt{21}e^1 \otimes e_2 + \frac{4}{37}\sqrt{21}e^3 \otimes e_9$	{1347, 1367}
9531:58	$0, 0, 0, 0, \frac{1}{91}\sqrt{14}e^{12}, \frac{1}{13}\sqrt{2}e^{34}, \frac{1}{91}\sqrt{266}e^{15},$ $\frac{4}{91}\sqrt{21}e^{23} + \frac{1}{91}\sqrt{154}e^{46}, \frac{2}{91}\sqrt{105}e^{17}$	$(\frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0, 0, \frac{1}{13})$ $+\frac{2}{91}\sqrt{119}e^3 \otimes e_9 + \frac{2}{91}\sqrt{161}e^1 \otimes e_8$	{14569, 159, 348, 368}
9531:58	$0, 0, 0, 0, \frac{1}{91}\sqrt{14}e^{12}, \frac{1}{13}\sqrt{2}e^{34}, \frac{1}{91}\sqrt{266}e^{15},$ $\frac{4}{91}\sqrt{21}e^{23} + \frac{1}{91}\sqrt{154}e^{46}, \frac{2}{91}\sqrt{105}e^{17}$	$(\frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0, 0, \frac{1}{13})$ $-\frac{2}{91}\sqrt{119}e^3 \otimes e_9 + \frac{2}{91}\sqrt{161}e^1 \otimes e_8$	{14569, 159, 348, 368}
9531:58	$0, 0, 0, 0, \frac{1}{171}\sqrt{8030}e^{12}, \frac{4}{513}\sqrt{5110}e^{34}, \frac{2}{513}\sqrt{5110}e^{15},$ $\frac{1}{513}\sqrt{129210}e^{23} + \frac{1}{513}\sqrt{22630}e^{46}, \frac{2}{513}\sqrt{37230}e^{17}$	$(-\frac{49}{513}, \frac{2}{171}, \frac{224}{513}, \frac{1}{171}, -\frac{43}{513}, \frac{227}{513}, -\frac{92}{513}, \frac{230}{513}, -\frac{47}{171})$ $+\frac{1}{513}\sqrt{313170}e^3 \otimes e_9$	{1245689, 12589, 234, 236}
9531:58	$0, 0, 0, 0, \frac{2}{1423}\sqrt{11501}e^{12}, \frac{4}{1423}\sqrt{53795}e^{34}, \frac{8}{1423}\sqrt{1855}e^{15},$ $\frac{2}{1423}\sqrt{117607}e^{23} + \frac{4}{1423}\sqrt{53795}e^{46}, \frac{8}{1423}\sqrt{10759}e^{17}$	$(-\frac{335}{1423}, \frac{526}{1423}, -\frac{23}{1423}, \frac{263}{1423}, \frac{191}{1423}, \frac{240}{1423}, -\frac{144}{1423}, \frac{503}{1423}, -\frac{479}{1423})$ $+\frac{182}{1423}\sqrt{53}e^4 \otimes e_9$	{123478, 12467, 2356789, 2579}
9531:58	$0, 0, 0, 0, \frac{9}{3229}\sqrt{998}e^{12}, \frac{27}{3229}\sqrt{34}e^{34}, \frac{9}{3229}\sqrt{1382}e^{15},$ $\frac{18}{3229}\sqrt{411}e^{23} + \frac{9}{3229}\sqrt{834}e^{46}, \frac{18}{3229}\sqrt{455}e^{17}$	$(-\frac{27}{3229}, \frac{198}{3229}, -\frac{306}{3229}, \frac{99}{3229}, \frac{171}{3229}, -\frac{207}{3229}, \frac{144}{3229}, -\frac{108}{3229}, \frac{117}{3229})$ $+\frac{306}{3229}\sqrt{2}e^2 \otimes e_9 + \frac{54}{3229}\sqrt{95}e^1 \otimes e_8$	{123467, 1237}
9531:58	$0, 0, 0, 0, \frac{3}{689}\sqrt{12282}e^{12}, \frac{9}{689}\sqrt{506}e^{34}, \frac{3}{689}\sqrt{5658}e^{15},$ $\frac{18}{689}\sqrt{851}e^{23} + \frac{9}{689}\sqrt{506}e^{46}, \frac{60}{689}\sqrt{69}e^{17}$	$(-\frac{207}{689}, \frac{378}{689}, -\frac{66}{689}, \frac{189}{689}, \frac{171}{689}, \frac{123}{689}, -\frac{36}{689}, \frac{24}{53}, -\frac{243}{689})$ $+\frac{6}{689}\sqrt{19527}e^2 \otimes e_9$	{1345689, 13589, 1459, 1569}
9531:58	$0, 0, 0, 0, \frac{2}{1277}\sqrt{506}e^{12}, \frac{2}{1277}\sqrt{930}e^{34}, \frac{20}{1277}\sqrt{10}e^{15},$ $\frac{4}{1277}\sqrt{13}e^{23} + \frac{2}{1277}\sqrt{430}e^{46}, \frac{20}{1277}\sqrt{1534}e^{17}$	$(-\frac{10}{1277}, \frac{44}{1277}, -\frac{62}{1277}, \frac{22}{1277}, \frac{34}{1277}, -\frac{40}{1277}, \frac{24}{1277}, -\frac{18}{1277}, \frac{14}{1277})$ $+\frac{2}{1277}\sqrt{2370}e^1 \otimes e_8 + \frac{4}{1277}\sqrt{527}e^4 \otimes e_9$	{12467, 2356789}
9531:59	$0, 0, 0, 0, -\frac{3}{127}\sqrt{370}e^{12}, \frac{3}{889}\sqrt{38702}e^{13}, \frac{6}{889}\sqrt{851}e^{15},$ $\frac{3}{889}\sqrt{7178}e^{25} + \frac{75}{889}\sqrt{74}e^{36}, \frac{30}{889}\sqrt{370}e^{17}$	$(-\frac{222}{889}, \frac{45}{127}, \frac{45}{127}, \frac{144}{889}, \frac{93}{889}, \frac{93}{889}, -\frac{129}{889}, \frac{408}{889}, -\frac{351}{889})$ $+\frac{6}{889}\sqrt{27565}e^3 \otimes e_9$	{1234578, 123578, 14689, 1689, 2479, 279, 3456, 356, 1234578, 123578, 14689, 1689, 2479, 279, 3456, 356}
9531:59	$0, 0, 0, 0, \frac{3}{127}\sqrt{370}e^{12}, \frac{3}{889}\sqrt{38702}e^{13}, \frac{6}{889}\sqrt{851}e^{15},$ $\frac{3}{889}\sqrt{7178}e^{25} + \frac{75}{889}\sqrt{74}e^{36}, \frac{30}{889}\sqrt{370}e^{17}$	$(-\frac{222}{889}, \frac{45}{127}, \frac{45}{127}, \frac{144}{889}, \frac{93}{889}, \frac{93}{889}, -\frac{129}{889}, \frac{408}{889}, -\frac{351}{889})$ $+\frac{6}{889}\sqrt{27565}e^3 \otimes e_9$	{1234578, 123578, 14689, 1689, 2479, 279, 3456, 356, 1234578, 123578, 14689, 1689, 2479, 279, 3456, 356}
9531:59	$0, 0, 0, 0, -\frac{18}{149}\sqrt{5}e^{12}, \frac{36}{149}\sqrt{3}e^{13}, \frac{36}{149}e^{15},$ $\frac{9}{149}\sqrt{38}e^{25} + \frac{45}{149}\sqrt{2}e^{36}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{45}{149}, \frac{45}{149}, -\frac{36}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{9}{149}, \frac{63}{149}, -\frac{36}{149})$ $+\frac{45}{149}\sqrt{6}e^3 \otimes e_9 + \frac{9}{149}\sqrt{110}e^2 \otimes e_4$	{12689, 134578, 2356, 479, 12689, 134578, 2356, 479}
9531:59	$0, 0, 0, 0, \frac{18}{149}\sqrt{5}e^{12}, \frac{36}{149}\sqrt{3}e^{13}, \frac{36}{149}e^{15},$ $\frac{9}{149}\sqrt{38}e^{25} + \frac{45}{149}\sqrt{2}e^{36}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{45}{149}, \frac{45}{149}, -\frac{36}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{9}{149}, \frac{63}{149}, -\frac{36}{149})$ $+\frac{45}{149}\sqrt{6}e^3 \otimes e_9 + \frac{9}{149}\sqrt{110}e^2 \otimes e_4$	{12689, 134578, 2356, 479, 12689, 134578, 2356, 479}
9531:59	$0, 0, 0, 0, -\frac{1}{97}\sqrt{854}e^{12}, \frac{1}{97}\sqrt{1830}e^{13}, \frac{4}{97}\sqrt{122}e^{15},$ $\frac{1}{97}\sqrt{366}e^{25} + \frac{1}{97}\sqrt{1342}e^{36}, \frac{12}{97}\sqrt{61}e^{17}$	$(-\frac{15}{97}, \frac{20}{97}, \frac{20}{97}, 1, \frac{5}{97}, \frac{5}{97}, -\frac{10}{97}, \frac{25}{97}, -\frac{25}{97})$ $+\frac{2}{97}\sqrt{4819}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789, 123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:59	$0, 0, 0, 0, \frac{1}{97}\sqrt{854}e^{12}, \frac{1}{97}\sqrt{1830}e^{13}, \frac{4}{97}\sqrt{122}e^{15},$ $\frac{1}{97}\sqrt{366}e^{25} + \frac{1}{97}\sqrt{1342}e^{36}, \frac{12}{97}\sqrt{61}e^{17}$	$(-\frac{15}{97}, \frac{20}{97}, \frac{20}{97}, 1, \frac{5}{97}, \frac{5}{97}, -\frac{10}{97}, \frac{25}{97}, -\frac{25}{97})$ $+\frac{2}{97}\sqrt{4819}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789, 123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:59	$0, 0, 0, 0, -\frac{18}{173}\sqrt{10}e^{12}, \frac{36}{173}\sqrt{17}e^{13}, \frac{18}{173}\sqrt{11}e^{15},$ $\frac{18}{173}\sqrt{7}e^{25} + \frac{36}{173}\sqrt{15}e^{36}, \frac{18}{173}\sqrt{10}e^{17}$	$(-\frac{9}{173}, \frac{45}{173}, \frac{45}{173}, -\frac{117}{173}, \frac{36}{173}, \frac{36}{173}, \frac{27}{173}, \frac{81}{173}, \frac{18}{173})$ $+\frac{18}{173}\sqrt{145}e^3 \otimes e_4$	{1235789, 12456789, 138, 1468, 2367, 247, 3569, 459, 1235789, 12456789, 138, 1468, 2367, 247, 3569, 459}
9531:59	$0, 0, 0, 0, \frac{18}{173}\sqrt{10}e^{12}, \frac{36}{173}\sqrt{17}e^{13}, \frac{18}{173}\sqrt{11}e^{15},$ $\frac{18}{173}\sqrt{7}e^{25} + \frac{36}{173}\sqrt{15}e^{36}, \frac{18}{173}\sqrt{10}e^{17}$	$(-\frac{9}{173}, \frac{45}{173}, \frac{45}{173}, -\frac{117}{173}, \frac{36}{173}, \frac{36}{173}, \frac{27}{173}, \frac{81}{173}, \frac{18}{173})$ $+\frac{18}{173}\sqrt{145}e^3 \otimes e_4$	{1235789, 12456789, 138, 1468, 2367, 247, 3569, 459, 1235789, 12456789, 138, 1468, 2367, 247, 3569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:59	$0, 0, 0, 0, -\frac{45}{173}\sqrt{10}e^{12}, \frac{27}{173}\sqrt{2}e^{13}, \frac{18}{173}\sqrt{11}e^{15},$ $\frac{9}{173}\sqrt{262}e^{25} + \frac{45}{173}\sqrt{2}e^{36}, \frac{18}{173}\sqrt{10}e^{17}$	$(-\frac{9}{173}, \frac{45}{173}, \frac{45}{173}, -\frac{117}{173}, \frac{36}{173}, \frac{36}{173}, \frac{27}{173}, \frac{81}{173}, \frac{18}{173})$ $+\frac{18}{173}\sqrt{145}e^2 \otimes e_4$	{12368, 128, 13456789, 145789, 2359, 2569, 347, 467, 12368, 128, 13456789, 145789, 2359, 2569, 347, 467}
9531:59	$0, 0, 0, 0, \frac{45}{173}\sqrt{10}e^{12}, \frac{27}{173}\sqrt{2}e^{13}, \frac{18}{173}\sqrt{11}e^{15},$ $\frac{9}{173}\sqrt{262}e^{25} + \frac{45}{173}\sqrt{2}e^{36}, \frac{18}{173}\sqrt{10}e^{17}$	$(-\frac{9}{173}, \frac{45}{173}, \frac{45}{173}, -\frac{117}{173}, \frac{36}{173}, \frac{36}{173}, \frac{27}{173}, \frac{81}{173}, \frac{18}{173})$ $+\frac{18}{173}\sqrt{145}e^2 \otimes e_4$	{12368, 128, 13456789, 145789, 2359, 2569, 347, 467, 12368, 128, 13456789, 145789, 2359, 2569, 347, 467}
9531:59	$0, 0, 0, 0, -\frac{18}{149}\sqrt{10}e^{12}, \frac{18}{149}\sqrt{7}e^{13}, \frac{36}{149}e^{15},$ $\frac{9}{149}\sqrt{58}e^{25} + \frac{9}{149}\sqrt{30}e^{36}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{45}{149}, \frac{45}{149}, -\frac{36}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{9}{149}, \frac{63}{149}, -\frac{36}{149})$ $+\frac{45}{149}\sqrt{6}e^2 \otimes e_9 + \frac{9}{149}\sqrt{110}e^3 \otimes e_4$	{2356, 245, 3679, 479, 2356, 245, 3679, 479}
9531:59	$0, 0, 0, 0, \frac{18}{149}\sqrt{10}e^{12}, \frac{18}{149}\sqrt{7}e^{13}, \frac{36}{149}e^{15},$ $\frac{9}{149}\sqrt{58}e^{25} + \frac{9}{149}\sqrt{30}e^{36}, \frac{18}{149}\sqrt{10}e^{17}$	$(-\frac{27}{149}, \frac{45}{149}, \frac{45}{149}, -\frac{36}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{9}{149}, \frac{63}{149}, -\frac{36}{149})$ $+\frac{45}{149}\sqrt{6}e^2 \otimes e_9 + \frac{9}{149}\sqrt{110}e^3 \otimes e_4$	{2356, 245, 3679, 479, 2356, 245, 3679, 479}
9531:59	$0, 0, 0, 0, -\frac{30}{889}\sqrt{370}e^{12}, \frac{222}{889}\sqrt{3}e^{13}, \frac{6}{889}\sqrt{851}e^{15},$ $\frac{108}{889}\sqrt{37}e^{25} + \frac{12}{889}\sqrt{555}e^{36}, \frac{30}{889}\sqrt{370}e^{17}$	$(-\frac{222}{889}, \frac{45}{127}, \frac{45}{127}, \frac{144}{889}, \frac{93}{889}, \frac{93}{889}, -\frac{129}{889}, \frac{408}{889}, -\frac{351}{889})$ $+\frac{6}{889}\sqrt{27565}e^2 \otimes e_9$	{2345, 235, 2456, 256, 3479, 379, 4679, 679, 2345, 235, 2456, 256, 3479, 379, 4679, 679}
9531:59	$0, 0, 0, 0, \frac{30}{889}\sqrt{370}e^{12}, \frac{222}{889}\sqrt{3}e^{13}, \frac{6}{889}\sqrt{851}e^{15},$ $\frac{108}{889}\sqrt{37}e^{25} + \frac{12}{889}\sqrt{555}e^{36}, \frac{30}{889}\sqrt{370}e^{17}$	$(-\frac{222}{889}, \frac{45}{127}, \frac{45}{127}, \frac{144}{889}, \frac{93}{889}, \frac{93}{889}, -\frac{129}{889}, \frac{408}{889}, -\frac{351}{889})$ $+\frac{6}{889}\sqrt{27565}e^2 \otimes e_9$	{2345, 235, 2456, 256, 3479, 379, 4679, 679, 2345, 235, 2456, 256, 3479, 379, 4679, 679}
9531:59	$0, 0, 0, 0, -\frac{3}{74}\sqrt{77}e^{12}, \frac{3}{37}\sqrt{3}e^{13}, \frac{3}{37}\sqrt{11}e^{15},$ $\frac{3}{74}\sqrt{42}e^{25} + \frac{3}{74}\sqrt{3}e^{36}, \frac{3}{74}\sqrt{77}e^{17}$	$(-\frac{3}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{12}{37}, \frac{3}{37}, \frac{3}{37}, 0, \frac{9}{37}, -\frac{3}{37})$ $+\frac{3}{74}\sqrt{129}e^1 \otimes e_4 + \frac{3}{74}\sqrt{134}e^2 \otimes e_9$	{123678, 1278, 135689, 1589, 123678, 1278, 135689, 1589}
9531:59	$0, 0, 0, 0, \frac{3}{74}\sqrt{77}e^{12}, \frac{3}{37}\sqrt{3}e^{13}, \frac{3}{37}\sqrt{11}e^{15},$ $\frac{3}{74}\sqrt{42}e^{25} + \frac{3}{74}\sqrt{3}e^{36}, \frac{3}{74}\sqrt{77}e^{17}$	$(-\frac{3}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{12}{37}, \frac{3}{37}, \frac{3}{37}, 0, \frac{9}{37}, -\frac{3}{37})$ $+\frac{3}{74}\sqrt{129}e^1 \otimes e_4 + \frac{3}{74}\sqrt{134}e^2 \otimes e_9$	{123678, 1278, 135689, 1589, 123678, 1278, 135689, 1589}
9531:59	$0, 0, 0, 0, -\frac{1}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{2}{9}\sqrt{2}e^{15},$ $\frac{4}{9}\sqrt{3}e^{25} + \frac{2}{9}\sqrt{11}e^{36}, \frac{1}{9}\sqrt{6}e^{17}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9}, \frac{2}{9})$ $+\frac{1}{9}\sqrt{146}e^4 \otimes e_8$	{12389, 12689, 13578, 15678, 23456, 245, 34679, 479, 12389, 12689, 13578, 15678, 23456, 245, 34679, 479}
9531:59	$0, 0, 0, 0, \frac{1}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{2}{9}\sqrt{2}e^{15},$ $\frac{4}{9}\sqrt{3}e^{25} + \frac{2}{9}\sqrt{11}e^{36}, \frac{1}{9}\sqrt{6}e^{17}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9}, \frac{2}{9})$ $+\frac{1}{9}\sqrt{146}e^4 \otimes e_8$	{12389, 12689, 13578, 15678, 23456, 245, 34679, 479, 12389, 12689, 13578, 15678, 23456, 245, 34679, 479}
9531:61	$0, 0, 0, 0, \frac{1}{189}\sqrt{13578}e^{12}, \frac{2}{189}\sqrt{146}e^{13}, \frac{2}{189}\sqrt{5037}e^{25},$ $\frac{2}{63}\sqrt{146}e^{15} + \frac{1}{189}\sqrt{5110}e^{36}, \frac{1}{189}\sqrt{13870}e^{27}$	$(\frac{4}{189}, \frac{26}{189}, \frac{5}{63}, -\frac{40}{63}, \frac{10}{63}, \frac{19}{189}, \frac{8}{27}, \frac{34}{189}, \frac{82}{189})$ $+\frac{1}{189}\sqrt{45114}e^2 \otimes e_4$	{1345789, 1456789, 23569, 259}
9531:61	$0, 0, 0, 0, \frac{6}{149}\sqrt{345}e^{12}, \frac{18}{149}\sqrt{15}e^{13}, \frac{12}{149}\sqrt{15}e^{25},$ $\frac{21}{149}\sqrt{30}e^{15} + \frac{12}{149}\sqrt{15}e^{36}, \frac{3}{149}\sqrt{210}e^{27}$	$(\frac{36}{149}, -\frac{6}{149}, \frac{15}{149}, -\frac{99}{149}, \frac{30}{149}, \frac{51}{149}, \frac{24}{149}, \frac{66}{149}, \frac{18}{149})$ $+\frac{6}{149}\sqrt{930}e^1 \otimes e_4$	{1359, 1569, 23456789, 245789}
9531:61	$0, 0, 0, 0, \frac{4}{1211}\sqrt{19222}e^{12}, \frac{8}{3633}\sqrt{149657}e^{13}, \frac{2}{3633}\sqrt{775745}e^{25},$ $\frac{2}{3633}\sqrt{1503435}e^{15} + \frac{8}{3633}\sqrt{540962}e^{36}, \frac{2}{3633}\sqrt{31579}e^{27}$	$(\frac{65}{519}, \frac{57}{1211}, \frac{313}{3633}, -\frac{811}{1211}, \frac{626}{3633}, \frac{256}{1211}, \frac{797}{3633}, \frac{1081}{3633}, \frac{968}{3633})$ $+\frac{2}{1211}\sqrt{462701}e^3 \otimes e_4$	{123589, 1245689, 35679, 4579}
9531:61	$0, 0, 0, 0, \frac{4}{1243}\sqrt{25926}e^{12}, \frac{6}{1243}\sqrt{10430}e^{13}, \frac{2}{1243}\sqrt{24585}e^{25},$ $\frac{6}{1243}\sqrt{18923}e^{15} + \frac{2}{1243}\sqrt{24585}e^{36}, \frac{2}{1243}\sqrt{150639}e^{27}$	$(\frac{420}{1243}, -\frac{298}{1243}, \frac{61}{1243}, \frac{216}{1243}, \frac{122}{1243}, \frac{481}{1243}, -\frac{16}{113}, \frac{542}{1243}, -\frac{474}{1243})$ $+\frac{2}{1243}\sqrt{459069}e^1 \otimes e_9$	{1345, 135, 1456, 156}
9531:61	$0, 0, 0, 0, \frac{102}{7309}\sqrt{77}e^{12}, \frac{102}{7309}\sqrt{1182}e^{13}, \frac{204}{7309}\sqrt{35}e^{25},$ $\frac{153}{7309}\sqrt{14}e^{15} + \frac{51}{7309}\sqrt{2658}e^{36}, \frac{204}{7309}\sqrt{167}e^{27}$	$(\frac{1581}{7309}, -\frac{867}{7309}, \frac{357}{7309}, -\frac{2244}{7309}, \frac{714}{7309}, \frac{1938}{7309}, -\frac{153}{7309}, \frac{2295}{7309}, -\frac{1020}{7309})$ $+\frac{51}{7309}\sqrt{6294}e^3 \otimes e_4 + \frac{51}{7309}\sqrt{6518}e^1 \otimes e_9$	{12378, 124678}
9531:61	$0, 0, 0, 0, \frac{2}{201}\sqrt{251}e^{12}, \frac{2}{201}\sqrt{2510}e^{13}, \frac{2}{201}\sqrt{1757}e^{25},$ $\frac{1}{201}\sqrt{1506}e^{15} + \frac{2}{201}\sqrt{1757}e^{36}, \frac{1}{201}\sqrt{36646}e^{27}$	$(\frac{40}{201}, -\frac{10}{67}, \frac{5}{201}, 1, \frac{10}{201}, \frac{15}{67}, -\frac{20}{201}, \frac{50}{201}, -\frac{50}{201})$ $+\frac{6}{67}\sqrt{251}e^4 \otimes e_9$	{123589, 125689, 35679, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:61	$0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{1}{9}\sqrt{6}e^{25},$ $\frac{1}{9}\sqrt{51}e^{15} + \frac{1}{9}\sqrt{43}e^{36}, \frac{1}{9}\sqrt{7}e^{27}$	$(-\frac{1}{9}, \frac{1}{9}, 0, 1, 0, -\frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, \frac{2}{9})$ $+ \frac{7}{9}\sqrt{3}e^4 \otimes e_8$	{13456, 145, 23578, 25678}
9531:61	$0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{1}{15}\sqrt{10}e^{25},$ $\frac{1}{45}\sqrt{165}e^{15} + \frac{1}{45}\sqrt{355}e^{36}, \frac{1}{45}\sqrt{295}e^{27}$	$(\frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{3}, 0, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, -\frac{2}{9})$ $+ \frac{1}{45}\sqrt{195}e^4 \otimes e_8 + \frac{2}{9}\sqrt{6}e^3 \otimes e_9$	{125689, 4579}
9531:61	$0, 0, 0, 0, \frac{10}{1827}\sqrt{5727}e^{12}, \frac{5}{1827}\sqrt{44942}e^{13}, \frac{40}{609}\sqrt{23}e^{25},$ $\frac{10}{1827}\sqrt{6969}e^{15} + \frac{5}{1827}\sqrt{37306}e^{36}, \frac{25}{1827}\sqrt{1426}e^{27}$	$(\frac{55}{261}, -\frac{307}{1827}, \frac{13}{609}, \frac{86}{609}, \frac{26}{609}, \frac{424}{1827}, -\frac{229}{1827}, \frac{463}{1827}, -\frac{536}{1827})$ $+ \frac{5}{1827}\sqrt{72174}e^3 \otimes e_9$	{1245689, 125689, 4579, 579}
9531:61	$0, 0, 0, 0, \frac{18}{301}\sqrt{23}e^{12}, \frac{27}{301}\sqrt{30}e^{13}, \frac{72}{301}e^{25},$ $\frac{18}{301}\sqrt{29}e^{15} + \frac{9}{301}\sqrt{202}e^{36}, \frac{9}{301}\sqrt{194}e^{27}$	$(\frac{9}{43}, -\frac{45}{301}, \frac{9}{301}, -\frac{18}{301}, \frac{18}{301}, \frac{72}{301}, -\frac{27}{301}, \frac{81}{301}, -\frac{72}{301})$ $+ \frac{27}{301}\sqrt{46}e^3 \otimes e_9 + \frac{36}{301}\sqrt{7}e^1 \otimes e_4$	{125689, 4579}
9531:61	$0, 0, 0, 0, \frac{3}{250}\sqrt{170}e^{12}, \frac{3}{25}\sqrt{3}e^{13}, \frac{3}{125}\sqrt{85}e^{25},$ $\frac{3}{250}\sqrt{1590}e^{15} + \frac{9}{250}\sqrt{30}e^{36}, \frac{3}{250}\sqrt{830}e^{27}$	$(\frac{3}{25}, -\frac{3}{25}, 0, \frac{12}{25}, 0, \frac{3}{25}, -\frac{3}{25}, \frac{3}{25}, -\frac{6}{25})$ $+ \frac{3}{250}\sqrt{1830}e^4 \otimes e_8 + \frac{3}{25}\sqrt{26}e^1 \otimes e_9$	{34679, 479}
9531:61	$0, 0, 0, 0, \frac{2}{41}\sqrt{10}e^{12}, \frac{1}{123}\sqrt{1290}e^{13}, \frac{2}{123}\sqrt{210}e^{25},$ $\frac{8}{123}\sqrt{15}e^{15} + \frac{1}{41}\sqrt{130}e^{36}, \frac{5}{41}\sqrt{6}e^{27}$	$(\frac{5}{41}, -\frac{3}{41}, \frac{1}{41}, -\frac{8}{41}, \frac{2}{41}, \frac{6}{41}, -\frac{1}{41}, \frac{7}{41}, -\frac{4}{41})$ $+ \frac{1}{123}\sqrt{2130}e^3 \otimes e_9 + \frac{2}{123}\sqrt{285}e^2 \otimes e_4$	{125689, 4579}
9531:63	$0, 0, 0, 0, \frac{99}{149}e^{12}, \frac{45}{149}\sqrt{3}e^{13}, \frac{9}{149}\sqrt{70}e^{15}, \frac{36}{149}\sqrt{6}e^{16},$ $\frac{9}{149}\sqrt{73}e^{17} + \frac{36}{149}\sqrt{6}e^{36}$	$(-\frac{27}{149}, \frac{72}{149}, \frac{9}{149}, \frac{36}{149}, \frac{45}{149}, -\frac{18}{149}, \frac{18}{149}, -\frac{45}{149}, -\frac{9}{149})$ $+ \frac{9}{149}\sqrt{226}e^2 \otimes e_9 + \frac{36}{149}\sqrt{33}e^4 \otimes e_8$	{123678, 1247}
9531:63	$0, 0, 0, 0, \frac{25}{71}e^{12}, \frac{5}{71}\sqrt{55}e^{13}, \frac{5}{71}e^{15}, \frac{5}{71}\sqrt{31}e^{16},$ $\frac{5}{71}\sqrt{3}e^{17} + \frac{5}{71}\sqrt{13}e^{36}$	$(\frac{10}{71}, -\frac{15}{71}, \frac{5}{142}, -\frac{45}{142}, -\frac{5}{71}, \frac{25}{71}, \frac{5}{142}, \frac{45}{71}, \frac{15}{71})$ $+ \frac{5}{71}\sqrt{59}e^3 \otimes e_4 + \frac{5}{71}\sqrt{69}e^1 \otimes e_2$	{1389, 1469}
9531:63	$0, 0, 0, 0, \frac{13}{47}\sqrt{14}e^{12}, \frac{13}{141}\sqrt{38}e^{13}, \frac{13}{141}\sqrt{46}e^{15}, \frac{65}{141}\sqrt{2}e^{16},$ $\frac{26}{141}\sqrt{2}e^{17} + \frac{26}{47}e^{36}$	$(-\frac{13}{141}, \frac{26}{47}, \frac{26}{141}, -\frac{91}{141}, \frac{65}{141}, \frac{13}{141}, \frac{52}{141}, 0, \frac{13}{47})$ $+ \frac{26}{141}\sqrt{58}e^2 \otimes e_4$	{134568, 145, 3489, 469}
9531:63	$0, 0, 0, 0, \frac{11}{389}\sqrt{190}e^{12}, \frac{22}{389}\sqrt{51}e^{13}, \frac{22}{389}\sqrt{5}e^{15}, \frac{33}{389}\sqrt{38}e^{16},$ $\frac{22}{389}\sqrt{21}e^{17} + \frac{11}{389}\sqrt{122}e^{36}$	$(\frac{33}{389}, -\frac{88}{389}, -\frac{11}{389}, \frac{176}{389}, -\frac{55}{389}, \frac{22}{389}, -\frac{22}{389}, \frac{55}{389}, \frac{11}{389})$ $+ \frac{11}{389}\sqrt{426}e^1 \otimes e_2 + \frac{22}{389}\sqrt{73}e^4 \otimes e_8$	{236789, 2479}
9531:63	$0, 0, 0, 0, \frac{79}{133}e^{12}, \frac{1}{133}\sqrt{8295}e^{13}, \frac{1}{133}\sqrt{158}e^{15}, \frac{3}{133}\sqrt{2370}e^{16},$ $\frac{1}{133}\sqrt{4503}e^{17} + \frac{1}{133}\sqrt{869}e^{36}$	$(-\frac{15}{133}, \frac{40}{133}, \frac{5}{133}, 1, \frac{25}{133}, -\frac{10}{133}, \frac{10}{133}, -\frac{25}{133}, -\frac{5}{133})$ $+ \frac{1}{133}\sqrt{35629}e^4 \otimes e_8$	{138, 146, 35689, 459}
9531:63	$0, 0, 0, 0, \frac{15}{566}\sqrt{770}e^{12}, \frac{3}{566}\sqrt{12390}e^{13}, \frac{3}{566}\sqrt{11795}e^{15},$ $\frac{3}{566}\sqrt{17430}e^{16} + \frac{3}{566}\sqrt{11690}e^{17} + \frac{18}{283}\sqrt{105}e^{36}$	$(-\frac{105}{566}, \frac{291}{566}, \frac{81}{1132}, \frac{159}{1132}, \frac{93}{283}, -\frac{129}{1132}, \frac{81}{566}, -\frac{339}{1132}, -\frac{12}{283})$ $+ \frac{21}{566}\sqrt{695}e^2 \otimes e_9$	{1234678, 123678, 1247, 127}
9531:63	$0, 0, 0, 0, \frac{33}{1025}\sqrt{3614}e^{12}, \frac{33}{5125}\sqrt{1338}e^{13}, \frac{66}{5125}\sqrt{698}e^{15},$ $\frac{33}{1025}\sqrt{78}e^{16}, \frac{66}{5125}\sqrt{674}e^{17} + \frac{198}{5125}\sqrt{51}e^{36}$	$(-\frac{363}{5125}, \frac{264}{1025}, \frac{297}{5125}, -\frac{1452}{5125}, \frac{957}{5125}, -\frac{66}{5125}, \frac{594}{5125}, -\frac{429}{5125}, \frac{231}{5125})$ $+ \frac{198}{5125}\sqrt{111}e^1 \otimes e_4 + \frac{33}{5125}\sqrt{5162}e^2 \otimes e_9$	{123678, 127}
9531:63	$0, 0, 0, 0, \frac{45}{4981}\sqrt{1354}e^{12}, \frac{90}{4981}\sqrt{274}e^{13}, \frac{270}{4981}\sqrt{39}e^{15},$ $\frac{45}{4981}\sqrt{1022}e^{16}, \frac{180}{4981}\sqrt{187}e^{17} + \frac{45}{4981}\sqrt{222}e^{36}$	$(\frac{585}{4981}, -\frac{1440}{4981}, -\frac{135}{4981}, \frac{2340}{4981}, -\frac{855}{4981}, \frac{450}{4981}, -\frac{270}{4981}, \frac{1035}{4981}, \frac{315}{4981})$ $+ \frac{180}{4981}\sqrt{227}e^4 \otimes e_9 + \frac{45}{4981}\sqrt{5282}e^1 \otimes e_2$	{23468, 24}
9531:63	$0, 0, 0, 0, \frac{4}{2277}\sqrt{47683}e^{12}, \frac{16}{2277}\sqrt{5815}e^{13}, \frac{2}{2277}\sqrt{487297}e^{15},$ $\frac{2}{759}\sqrt{70943}e^{16}, \frac{2}{759}\sqrt{98855}e^{17} + \frac{2}{2277}\sqrt{798981}e^{36}$	$(-\frac{91}{2277}, \frac{224}{2277}, \frac{7}{759}, 1, \frac{133}{2277}, -\frac{70}{2277}, \frac{14}{759}, -\frac{7}{99}, -\frac{49}{2277})$ $+ \frac{2}{2277}\sqrt{2196907}e^4 \otimes e_9$	{1234678, 1247, 235789, 25679}
9531:63	$0, 0, 0, 0, \frac{1}{281}\sqrt{27186}e^{12}, \frac{9}{281}\sqrt{394}e^{13}, \frac{1}{281}\sqrt{13790}e^{15}, \frac{1}{281}\sqrt{37430}e^{16},$ $\frac{12}{281}\sqrt{197}e^{17} + \frac{2}{281}\sqrt{4137}e^{36}$	$(\frac{67}{281}, -\frac{130}{281}, \frac{2}{281}, \frac{41}{281}, -\frac{63}{281}, \frac{69}{281}, \frac{4}{281}, \frac{136}{281}, \frac{71}{281})$ $+ \frac{4}{281}\sqrt{5910}e^1 \otimes e_2$	{13478, 1378, 1467, 167}
9531:63	$0, 0, 0, 0, \frac{1}{49}\sqrt{195}e^{12}, \frac{12}{49}\sqrt{5}e^{13}, \frac{10}{49}\sqrt{3}e^{15}, \frac{1}{49}\sqrt{435}e^{16},$ $\frac{1}{49}\sqrt{545}e^{17} + \frac{6}{49}\sqrt{15}e^{36}$	$(-\frac{5}{49}, \frac{20}{49}, \frac{5}{49}, -\frac{20}{49}, \frac{15}{49}, 0, \frac{10}{49}, -\frac{5}{49}, \frac{5}{49})$ $+ \frac{1}{49}\sqrt{1255}e^3 \otimes e_4 + \frac{2}{49}\sqrt{235}e^2 \otimes e_8$	{135789, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:63	$0, 0, 0, 0, \frac{5}{139}\sqrt{58}e^{12}, \frac{2}{139}\sqrt{3799}e^{13}, \frac{2}{139}\sqrt{1015}e^{15}, \frac{1}{139}\sqrt{1798}e^{16},$ $\frac{3}{139}\sqrt{870}e^{17} + \frac{2}{139}\sqrt{3190}e^{36}$	$(\frac{5}{139}, \frac{27}{139}, \frac{37}{278}, -\frac{195}{278}, \frac{32}{139}, \frac{47}{278}, \frac{37}{139}, \frac{57}{278}, \frac{42}{139})$ $+ \frac{1}{139}\sqrt{27434}e^3 \otimes e_4$	{1235789, 1245679, 23678, 247}
9531:63	$0, 0, 0, 0, \frac{110}{4581}\sqrt{367}e^{12}, \frac{220}{4581}\sqrt{37}e^{13}, \frac{1210}{4581}e^{15}, \frac{55}{4581}\sqrt{246}e^{16},$ $\frac{55}{4581}\sqrt{930}e^{17} + \frac{110}{1527}\sqrt{38}e^{36}$	$(-\frac{715}{4581}, \frac{1760}{4581}, \frac{55}{1527}, \frac{880}{1527}, \frac{1045}{4581}, -\frac{550}{4581}, \frac{110}{1527}, -\frac{1265}{4581}, -\frac{385}{4581})$ $+ \frac{55}{4581}\sqrt{3882}e^2 \otimes e_8 + \frac{55}{4581}\sqrt{4174}e^4 \otimes e_9$	{123467, 23579}
9531:63	$0, 0, 0, 0, \frac{94}{6605}\sqrt{698}e^{12}, \frac{47}{6605}\sqrt{1130}e^{13}, \frac{94}{6605}\sqrt{318}e^{15},$ $\frac{47}{6605}\sqrt{3106}e^{16}, \frac{47}{6605}\sqrt{598}e^{17} + \frac{47}{6605}\sqrt{770}e^{36}$	$(-\frac{423}{6605}, \frac{376}{6605}, \frac{517}{6605}, \frac{2632}{6605}, \frac{1457}{6605}, \frac{94}{6605}, \frac{1034}{6605}, -\frac{329}{6605}, \frac{611}{6605})$ $+ \frac{47}{6605}\sqrt{5158}e^2 \otimes e_8 + \frac{47}{6605}\sqrt{6658}e^1 \otimes e_4$	{1267, 24579}
9531:63	$0, 0, 0, 0, \frac{20}{2401}\sqrt{3801}e^{12}, \frac{2}{2401}\sqrt{274215}e^{13}, \frac{2}{2401}\sqrt{527615}e^{15},$ $\frac{2}{2401}\sqrt{315845}e^{16}, \frac{2}{2401}\sqrt{442545}e^{17} + \frac{2}{2401}\sqrt{124890}e^{36}$	$(\frac{257}{2401}, \frac{4}{2401}, \frac{37}{343}, -\frac{1553}{2401}, \frac{261}{2401}, \frac{516}{2401}, \frac{74}{343}, \frac{773}{2401}, \frac{775}{2401})$ $+ \frac{2}{2401}\sqrt{1789185}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579}
9531:63	$0, 0, 0, 0, \frac{4}{2231}\sqrt{179679}e^{12}, \frac{4}{2231}\sqrt{25755}e^{13}, \frac{8}{2231}\sqrt{10605}e^{15},$ $\frac{12}{2231}\sqrt{23735}e^{16}, \frac{52}{2231}\sqrt{606}e^{17} + \frac{4}{2231}\sqrt{303}e^{36}$	$(-\frac{535}{2231}, \frac{1638}{2231}, \frac{284}{2231}, \frac{370}{2231}, \frac{1103}{2231}, -\frac{251}{2231}, \frac{568}{2231}, -\frac{786}{2231}, \frac{33}{2231})$ $+ \frac{4}{2231}\sqrt{563883}e^2 \otimes e_8$	{1345789, 135789, 34678, 3678}
9531:64	$0, 0, 0, 0, \frac{50}{1359}\sqrt{13}e^{12}, \frac{100}{4077}\sqrt{33}e^{13}, \frac{50}{4077}\sqrt{955}e^{25},$ $\frac{50}{4077}\sqrt{989}e^{16}, \frac{50}{4077}\sqrt{1393}e^{27} + \frac{50}{4077}\sqrt{219}e^{36}$	$(-\frac{725}{4077}, \frac{400}{4077}, \frac{200}{1359}, \frac{575}{1359}, -\frac{325}{4077}, -\frac{125}{4077}, \frac{25}{1359}, -\frac{850}{4077}, \frac{475}{4077})$ $+ \frac{100}{4077}\sqrt{303}e^4 \otimes e_9 + \frac{1400}{4077}\sqrt{3}e^2 \otimes e_8$	{12467, 259}
9531:64	$0, 0, 0, 0, \frac{4}{3303}\sqrt{297546}e^{12}, \frac{4}{367}\sqrt{2455}e^{13}, \frac{4}{3303}\sqrt{99673}e^{25},$ $\frac{8}{3303}\sqrt{179215}e^{16}, \frac{4}{3303}\sqrt{275942}e^{27} + \frac{4}{3303}\sqrt{231261}e^{36}$	$(-\frac{650}{3303}, \frac{50}{367}, \frac{75}{367}, 1, -\frac{200}{3303}, \frac{25}{3303}, \frac{250}{3303}, -\frac{625}{3303}, \frac{700}{3303})$ $+ \frac{4}{3303}\sqrt{1322754}e^4 \otimes e_8$	{138, 146, 356789, 4579}
9531:64	$0, 0, 0, 0, \frac{4}{1117}\sqrt{1834}e^{12}, \frac{4}{1117}\sqrt{49387}e^{13}, \frac{4}{1117}\sqrt{8515}e^{25},$ $\frac{4}{1117}\sqrt{9170}e^{16}, \frac{4}{1117}\sqrt{9170}e^{27} + \frac{4}{1117}\sqrt{54889}e^{36}$	$(-\frac{98}{1117}, \frac{214}{1117}, \frac{321}{1117}, -\frac{727}{1117}, \frac{116}{1117}, \frac{223}{1117}, \frac{330}{1117}, \frac{125}{1117}, \frac{544}{1117})$ $+ \frac{4}{1117}\sqrt{120782}e^3 \otimes e_4$	{139, 14689, 3567, 4578}
9531:64	$0, 0, 0, 0, \frac{8}{1607}\sqrt{78}e^{12}, \frac{12}{1607}\sqrt{85}e^{13}, \frac{8}{1607}\sqrt{231}e^{25}, \frac{8}{1607}\sqrt{390}e^{16},$ $\frac{8}{1607}\sqrt{390}e^{27} + \frac{12}{1607}\sqrt{19}e^{36}$	$(-\frac{10}{1607}, -\frac{8}{1607}, -\frac{12}{1607}, \frac{186}{1607}, -\frac{18}{1607}, -\frac{22}{1607}, \frac{26}{1607}, -\frac{32}{1607}, -\frac{34}{1607})$ $+ \frac{12}{1607}\sqrt{246}e^2 \otimes e_8 - \frac{4}{1607}\sqrt{2049}e^1 \otimes e_9$	{12467, 1267, 2459, 259}
9531:64	$0, 0, 0, 0, \frac{8}{1607}\sqrt{78}e^{12}, \frac{12}{1607}\sqrt{85}e^{13}, \frac{8}{1607}\sqrt{231}e^{25}, \frac{8}{1607}\sqrt{390}e^{16},$ $\frac{8}{1607}\sqrt{390}e^{27} + \frac{12}{1607}\sqrt{19}e^{36}$	$(-\frac{10}{1607}, -\frac{8}{1607}, -\frac{12}{1607}, \frac{186}{1607}, -\frac{18}{1607}, -\frac{22}{1607}, -\frac{26}{1607}, -\frac{32}{1607}, -\frac{34}{1607})$ $+ \frac{12}{1607}\sqrt{246}e^2 \otimes e_8 + \frac{4}{1607}\sqrt{2049}e^1 \otimes e_9$	{12467, 1267, 2459, 259}
9531:64	$0, 0, 0, 0, \frac{15}{1597}\sqrt{462}e^{12}, \frac{15}{1597}\sqrt{1122}e^{13}, \frac{90}{1597}\sqrt{66}e^{25},$ $\frac{15}{1597}\sqrt{2310}e^{16}, \frac{15}{1597}\sqrt{2310}e^{27} + \frac{30}{1597}\sqrt{66}e^{36}$	$(-\frac{420}{1597}, \frac{330}{1597}, \frac{495}{1597}, -\frac{180}{1597}, -\frac{90}{1597}, \frac{75}{1597}, \frac{240}{1597}, -\frac{345}{1597}, \frac{570}{1597})$ $+ \frac{15}{1597}\sqrt{2454}e^3 \otimes e_4 + \frac{15}{1597}\sqrt{5754}e^2 \otimes e_8$	{12467, 2459}
9531:64	$0, 0, 0, 0, \frac{2}{77}\sqrt{313}e^{12}, \frac{4}{693}\sqrt{15963}e^{13}, \frac{2}{693}\sqrt{13459}e^{25}, \frac{2}{693}\sqrt{67921}e^{16},$ $\frac{2}{693}\sqrt{9077}e^{27} + \frac{2}{693}\sqrt{12207}e^{36}$	$(\frac{191}{693}, -\frac{8}{231}, -\frac{4}{77}, -\frac{145}{231}, \frac{167}{693}, \frac{155}{63}, \frac{13}{693}, \frac{346}{99}, \frac{17}{99})$ $+ \frac{4}{693}\sqrt{44133}e^1 \otimes e_4$	{12378, 1267, 2345689, 2459}
9531:64	$0, 0, 0, 0, \frac{2}{1167}\sqrt{26013}e^{12}, \frac{4}{389}\sqrt{299}e^{13}, \frac{2}{1167}\sqrt{116311}e^{25},$ $\frac{2}{1167}\sqrt{130065}e^{16}, \frac{2}{1167}\sqrt{130065}e^{27} + \frac{10}{389}\sqrt{299}e^{36}$	$(-\frac{121}{389}, \frac{256}{1167}, \frac{128}{389}, \frac{65}{389}, -\frac{107}{1167}, \frac{7}{389}, \frac{149}{1167}, -\frac{114}{389}, \frac{135}{389})$ $+ \frac{12}{389}\sqrt{897}e^2 \otimes e_8$	{12467, 1267, 2459, 259}
9531:64	$0, 0, 0, 0, \frac{2}{3393}\sqrt{343491}e^{12}, \frac{4}{3393}\sqrt{129513}e^{13}, \frac{2}{3393}\sqrt{403555}e^{25},$ $\frac{2}{3393}\sqrt{1877}e^{16}, \frac{2}{3393}\sqrt{1721209}e^{27} + \frac{10}{3393}\sqrt{61941}e^{36}$	$(\frac{19}{117}, -\frac{304}{3393}, -\frac{152}{1131}, 1, \frac{19}{261}, \frac{95}{3393}, -\frac{19}{1131}, \frac{646}{3393}, -\frac{361}{3393})$ $+ \frac{4}{3393}\sqrt{1289499}e^4 \otimes e_9$	{123589, 12569, 234678, 247}
9531:64	$0, 0, 0, 0, \frac{2}{1713}\sqrt{315777}e^{12}, \frac{2}{571}\sqrt{4101}e^{13}, \frac{1}{571}\sqrt{1561114}e^{25},$ $\frac{1}{571}\sqrt{13670}e^{16}, \frac{2}{1713}\sqrt{291171}e^{27} + \frac{1}{571}\sqrt{8202}e^{36}$	$(-\frac{21}{571}, \frac{254}{1713}, \frac{127}{571}, -\frac{371}{571}, \frac{191}{1713}, \frac{106}{445}, \frac{85}{1713}, \frac{233}{571}, \frac{233}{571})$ $+ \frac{1}{571}\sqrt{429238}e^2 \otimes e_4$	{13456789, 14579, 348, 46}
9531:64	$0, 0, 0, 0, \frac{38}{4761}\sqrt{453}e^{12}, \frac{38}{4761}\sqrt{606}e^{13}, \frac{38}{4761}\sqrt{1009}e^{25},$ $\frac{38}{4761}\sqrt{1687}e^{16}, \frac{38}{4761}\sqrt{1109}e^{27} + \frac{38}{4761}\sqrt{753}e^{36}$	$(-\frac{475}{4761}, \frac{152}{1587}, \frac{76}{529}, -\frac{133}{529}, -\frac{19}{4761}, \frac{209}{4761}, \frac{19}{207}, -\frac{266}{4761}, \frac{893}{4761})$ $+ \frac{38}{4761}\sqrt{2490}e^2 \otimes e_8 + \frac{646}{4761}\sqrt{6}e^1 \otimes e_4$	{1267, 2459}
9531:65	$0, 0, 0, 0, \frac{4}{3969}\sqrt{140505}e^{12}, \frac{2}{3969}\sqrt{448630}e^{13}, \frac{2}{3969}\sqrt{635970}e^{25},$ $\frac{20}{3969}\sqrt{35989}e^{36}, \frac{2}{3969}\sqrt{1013115}e^{16} + \frac{58}{3969}\sqrt{935}e^{27}$	$(\frac{775}{3969}, -\frac{31}{3969}, -\frac{124}{567}, 1, \frac{248}{1323}, -\frac{31}{1323}, \frac{713}{3969}, -\frac{961}{3969}, \frac{682}{3969})$ $+ \frac{10}{1323}\sqrt{35003}e^4 \otimes e_8$	{12378, 156789, 2459, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:65	$0, 0, 0, 0, \frac{2}{661}\sqrt{255}e^{12}, \frac{2}{661}\sqrt{465}e^{13}, \frac{4}{661}\sqrt{170}e^{25}, \frac{2}{661}\sqrt{1205}e^{36},$ $\frac{2}{661}\sqrt{310}e^{16} + \frac{8}{661}\sqrt{70}e^{27}$	$(-\frac{5}{661}, -\frac{3}{661}, -\frac{4}{661}, \frac{77}{661}, -\frac{8}{661}, -\frac{9}{661}, -\frac{11}{661}, -\frac{13}{661}, -\frac{14}{661})$ $+ \frac{2}{661}\sqrt{1265}e^3 \otimes e_9 + \frac{2}{661}\sqrt{1655}e^2 \otimes e_8$	{1456789, 156789, 2459, 259}
9531:65	$0, 0, 0, 0, \frac{2}{661}\sqrt{255}e^{12}, \frac{2}{661}\sqrt{465}e^{13}, \frac{4}{661}\sqrt{170}e^{25}, \frac{2}{661}\sqrt{1205}e^{36},$ $\frac{2}{661}\sqrt{310}e^{16} + \frac{8}{661}\sqrt{70}e^{27}$	$(-\frac{5}{661}, -\frac{3}{661}, -\frac{4}{661}, \frac{77}{661}, -\frac{8}{661}, -\frac{9}{661}, -\frac{11}{661}, -\frac{13}{661}, -\frac{14}{661})$ $- \frac{2}{661}\sqrt{1265}e^3 \otimes e_9 + \frac{2}{661}\sqrt{1655}e^2 \otimes e_8$	{1456789, 156789, 2459, 259}
9531:65	$0, 0, 0, 0, \frac{9}{679}\sqrt{1030}e^{12}, \frac{4}{679}\sqrt{1030}e^{13}, \frac{1}{2037}\sqrt{699370}e^{25},$ $\frac{10}{679}\sqrt{1030}e^{36}, \frac{1}{2037}\sqrt{682890}e^{16} + \frac{7}{679}\sqrt{75190}e^{27}$	$(\frac{125}{679}, -\frac{4}{291}, -\frac{153}{679}, \frac{99}{679}, \frac{347}{679}, -\frac{4}{97}, \frac{319}{2037}, -\frac{181}{679}, \frac{1}{7})$ $+ \frac{10}{2037}\sqrt{17922}e^2 \otimes e_8$	{1247, 127, 468, 68}
9531:65	$0, 0, 0, 0, \frac{1}{507}\sqrt{116070}e^{12}, \frac{4}{507}\sqrt{1095}e^{13}, \frac{1}{39}\sqrt{730}e^{25}, \frac{10}{507}\sqrt{438}e^{36},$ $\frac{1}{507}\sqrt{67890}e^{16} + \frac{7}{507}\sqrt{2190}e^{27}$	$(\frac{15}{169}, \frac{32}{507}, \frac{17}{169}, -\frac{111}{169}, \frac{77}{507}, \frac{32}{169}, \frac{109}{507}, \frac{49}{169}, \frac{47}{169})$ $+ \frac{10}{507}\sqrt{3066}e^2 \otimes e_4$	{127, 1345679, 23589, 468}
9531:65	$0, 0, 0, 0, \frac{408}{2657}\sqrt{6}e^{12}, \frac{170}{2657}e^{13}, \frac{68}{2657}\sqrt{185}e^{25}, \frac{34}{2657}\sqrt{921}e^{36},$ $\frac{34}{2657}\sqrt{543}e^{16} + \frac{34}{2657}\sqrt{633}e^{27}$	$(\frac{493}{2657}, -\frac{17}{2657}, -\frac{544}{2657}, -\frac{85}{2657}, \frac{476}{2657}, -\frac{51}{2657}, \frac{459}{2657}, -\frac{595}{2657}, \frac{442}{2657})$ $+ \frac{34}{2657}\sqrt{437}e^1 \otimes e_4 + \frac{68}{2657}\sqrt{467}e^2 \otimes e_8$	{127, 468}
9531:65	$0, 0, 0, 0, \frac{2}{813}\sqrt{21261}e^{12}, \frac{2}{813}\sqrt{108170}e^{13}, \frac{10}{813}\sqrt{746}e^{25},$ $\frac{2}{813}\sqrt{108170}e^{36}, \frac{2}{813}\sqrt{21261}e^{16} + \frac{4}{813}\sqrt{8206}e^{27}$	$(-\frac{26}{813}, \frac{23}{271}, \frac{233}{813}, -\frac{171}{271}, \frac{43}{813}, \frac{69}{271}, \frac{112}{813}, \frac{440}{813}, \frac{181}{813})$ $+ \frac{2}{813}\sqrt{247299}e^3 \otimes e_4$	{1245689, 138, 2367, 4579}
9531:65	$0, 0, 0, 0, \frac{2}{1307}\sqrt{161555}e^{12}, \frac{2}{3921}\sqrt{959105}e^{13}, \frac{4}{3921}\sqrt{118610}e^{25},$ $\frac{8}{3921}\sqrt{22495}e^{36}, \frac{4}{1307}\sqrt{69530}e^{16} + \frac{8}{3921}\sqrt{145195}e^{27}$	$(-\frac{286}{3921}, \frac{13}{1307}, \frac{403}{3921}, 1, -\frac{247}{3921}, \frac{39}{1307}, -\frac{208}{3921}, \frac{520}{3921}, -\frac{169}{3921})$ $+ \frac{10}{3921}\sqrt{263805}e^4 \otimes e_9$	{12359, 146, 2478, 356789}
9531:65	$0, 0, 0, 0, \frac{20}{3969}\sqrt{11517}e^{12}, \frac{2}{3969}\sqrt{1924735}e^{13}, \frac{4}{3969}\sqrt{99465}e^{25},$ $\frac{2}{3969}\sqrt{368195}e^{36}, \frac{2}{3969}\sqrt{2298165}e^{16} + \frac{2}{3969}\sqrt{752095}e^{27}$	$(\frac{127}{567}, \frac{227}{3969}, -\frac{208}{3969}, -\frac{289}{441}, \frac{124}{441}, \frac{227}{1323}, \frac{1343}{3969}, \frac{473}{3969}, \frac{1570}{3969})$ $+ \frac{10}{1323}\sqrt{25477}e^1 \otimes e_4$	{12379, 1567, 2458, 34689}
9531:65	$0, 0, 0, 0, \frac{148}{6421}\sqrt{209}e^{12}, \frac{148}{6421}\sqrt{35}e^{13}, \frac{37}{6421}\sqrt{3602}e^{25},$ $\frac{111}{6421}\sqrt{502}e^{36}, \frac{74}{6421}\sqrt{687}e^{16} + \frac{37}{6421}\sqrt{4082}e^{27}$	$(\frac{814}{6421}, -\frac{111}{6421}, \frac{1147}{6421}, \frac{1850}{6421}, \frac{703}{6421}, -\frac{333}{6421}, \frac{592}{6421}, -\frac{1480}{6421}, \frac{481}{6421})$ $+ \frac{37}{6421}\sqrt{9142}e^2 \otimes e_8 + \frac{74}{6421}\sqrt{509}e^4 \otimes e_9$	{1247, 468}
9531:65	$0, 0, 0, 0, \frac{54}{9157}\sqrt{1033}e^{12}, \frac{54}{9157}\sqrt{251}e^{13}, \frac{567}{9157}\sqrt{10}e^{25},$ $\frac{27}{9157}\sqrt{7706}e^{36}, \frac{54}{9157}\sqrt{1201}e^{16} + \frac{27}{9157}\sqrt{4634}e^{27}$	$(\frac{864}{9157}, \frac{27}{9157}, -\frac{783}{9157}, -\frac{1512}{9157}, \frac{891}{9157}, \frac{81}{9157}, \frac{918}{9157}, -\frac{702}{9157}, \frac{945}{9157})$ $+ \frac{27}{9157}\sqrt{11170}e^2 \otimes e_8 + \frac{54}{9157}\sqrt{1271}e^3 \otimes e_4$	{1456789, 2459}
9531:66	$0, 0, 0, 0, \frac{23}{1823}\sqrt{3486}e^{12}, \frac{23}{1823}\sqrt{870}e^{13}, \frac{138}{1823}\sqrt{5}e^{15},$ $\frac{23}{1823}\sqrt{2130}e^{14} + \frac{23}{1823}\sqrt{3138}e^{36}, \frac{46}{1823}\sqrt{195}e^{17} + \frac{23}{1823}\sqrt{606}e^{34}$	$(-\frac{391}{1823}, \frac{1242}{1823}, \frac{23}{1823}, \frac{46}{1823}, \frac{851}{1823}, -\frac{368}{1823}, \frac{460}{1823}, -\frac{345}{1823}, \frac{69}{1823})$ $+ \frac{23}{1823}\sqrt{9138}e^2 \otimes e_8$	{1234679, 3489}
9531:66	$0, 0, 0, 0, \frac{9}{109}\sqrt{46}e^{12}, \frac{18}{109}\sqrt{13}e^{13}, \frac{18}{109}\sqrt{10}e^{15},$ $\frac{9}{109}\sqrt{46}e^{14} + \frac{18}{109}\sqrt{3}e^{36}, \frac{54}{109}\sqrt{2}e^{17} + \frac{45}{109}\sqrt{2}e^{34}$	$(\frac{27}{109}, -\frac{54}{109}, \frac{9}{109}, \frac{18}{109}, -\frac{27}{109}, \frac{36}{109}, 0, \frac{45}{109}, \frac{27}{109})$ $+ \frac{9}{109}\sqrt{186}e^1 \otimes e_2$	{1378, 236}
9531:67	$0, 0, 0, 0, \frac{63}{5953}\sqrt{3638}e^{12}, \frac{189}{5953}\sqrt{374}e^{13}, \frac{63}{5953}\sqrt{1754}e^{15},$ $\frac{63}{5953}\sqrt{1842}e^{24} + \frac{504}{5953}\sqrt{21}e^{36}, \frac{126}{5953}\sqrt{629}e^{17} + \frac{189}{5953}\sqrt{454}e^{34}$	$(-\frac{1323}{5953}, \frac{3213}{5953}, \frac{1260}{5953}, -\frac{2016}{5953}, \frac{1890}{5953}, -\frac{63}{5953}, \frac{567}{5953}, \frac{1197}{5953}, -\frac{756}{5953})$ $+ \frac{63}{5953}\sqrt{10010}e^2 \otimes e_9$	{1278, 14589}
9531:68	$0, 0, 0, 0, \frac{9}{218}\sqrt{110}e^{12}, \frac{27}{218}\sqrt{17}e^{13}, \frac{9}{218}\sqrt{53}e^{25},$ $\frac{9}{218}\sqrt{177}e^{14} + \frac{18}{109}\sqrt{3}e^{36}, \frac{18}{109}\sqrt{53}e^{27} + \frac{27}{218}\sqrt{14}e^{34}$	$(\frac{54}{109}, -\frac{27}{109}, -\frac{9}{109}, -\frac{18}{109}, \frac{27}{109}, \frac{45}{109}, 0, \frac{36}{109}, -\frac{27}{109})$ $+ \frac{9}{218}\sqrt{713}e^1 \otimes e_9$	{12347, 24589}
9531:68	$0, 0, 0, 0, \frac{82}{7053}\sqrt{354}e^{12}, \frac{82}{7053}\sqrt{87}e^{13}, \frac{41}{7053}\sqrt{4702}e^{25},$ $\frac{410}{7053}\sqrt{39}e^{14} + \frac{41}{7053}\sqrt{4782}e^{36}, \frac{41}{7053}\sqrt{5610}e^{27} + \frac{82}{2351}\sqrt{115}e^{34}$	$(-\frac{574}{2351}, \frac{1189}{7053}, \frac{205}{2351}, \frac{410}{2351}, -\frac{533}{7053}, -\frac{369}{2351}, \frac{656}{7053}, -\frac{164}{2351}, \frac{615}{2351})$ $+ \frac{41}{7053}\sqrt{11886}e^2 \otimes e_8$	{156789, 259}
9531:69	$0, 0, 0, 0, \frac{9}{823}\sqrt{3542}e^{12}, \frac{9}{823}\sqrt{1554}e^{13}, \frac{9}{823}\sqrt{1778}e^{25},$ $\frac{9}{823}\sqrt{3318}e^{24} + \frac{36}{823}\sqrt{42}e^{36}, \frac{18}{823}\sqrt{665}e^{27} + \frac{9}{823}\sqrt{3318}e^{34}$	$(\frac{459}{823}, -\frac{189}{823}, -\frac{252}{823}, \frac{144}{823}, \frac{270}{823}, \frac{207}{823}, \frac{81}{823}, -\frac{45}{823}, -\frac{108}{823})$ $+ \frac{63}{823}\sqrt{194}e^1 \otimes e_9$	{123478, 23569}
9531:70	$0, 0, 0, 0, \frac{28}{211}\sqrt{10}e^{12}, \frac{14}{211}\sqrt{10}e^{34}, \frac{7}{633}\sqrt{2110}e^{15}, \frac{7}{633}\sqrt{2490}e^{36},$ $\frac{7}{633}\sqrt{2010}e^{17} + \frac{14}{633}\sqrt{285}e^{46}$	$(\frac{77}{633}, -\frac{12}{211}, -\frac{59}{211}, \frac{62}{211}, \frac{41}{633}, \frac{3}{211}, \frac{118}{633}, -\frac{56}{211}, \frac{65}{211})$ $+ \frac{35}{633}\sqrt{210}e^1 \otimes e_8$	{12367, 159, 2456789, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:70	$0, 0, 0, 0, \frac{4}{2397}\sqrt{46095}e^{12}, \frac{4}{799}\sqrt{4390}e^{34}, \frac{1}{2397}\sqrt{3507610}e^{15},$ $\frac{5}{799}\sqrt{4390}e^{36}, \frac{4}{799}\sqrt{28535}e^{17} + \frac{3}{799}\sqrt{13170}e^{46}$	$(\frac{830}{2397}, -\frac{455}{799}, \frac{21}{799}, \frac{177}{799}, -\frac{535}{2397}, \frac{198}{799}, \frac{295}{2397}, \frac{219}{799}, \frac{375}{799})$ $+ \frac{5}{2397}\sqrt{345054}e^1 \otimes e_2$	{13478, 1367, 2348, 236}
9531:70	$0, 0, 0, 0, \frac{14}{821}\sqrt{1770}e^{12}, \frac{14}{821}\sqrt{390}e^{34}, \frac{14}{821}\sqrt{390}e^{15}, \frac{210}{821}e^{36},$ $\frac{7}{821}\sqrt{3390}e^{17} + \frac{42}{821}\sqrt{205}e^{46}$	$(-\frac{245}{821}, \frac{585}{821}, \frac{134}{821}, -\frac{142}{821}, \frac{340}{821}, -\frac{8}{821}, \frac{95}{821}, \frac{126}{821}, -\frac{150}{821})$ $+ \frac{35}{821}\sqrt{798}e^2 \otimes e_9$	{12467, 1278, 13459, 135689}
9531:70	$0, 0, 0, 0, \frac{8}{323}\sqrt{1057}e^{12}, \frac{4}{323}\sqrt{755}e^{34}, \frac{4}{323}\sqrt{755}e^{15}, \frac{8}{323}\sqrt{1057}e^{36},$ $\frac{2}{323}\sqrt{1963}e^{17} + \frac{2}{323}\sqrt{1963}e^{46}$	$(-\frac{59}{323}, \frac{211}{323}, -\frac{72}{323}, \frac{53}{323}, \frac{8}{17}, -\frac{1}{17}, \frac{93}{323}, -\frac{91}{323}, \frac{2}{19})$ $+ \frac{2}{323}\sqrt{39713}e^2 \otimes e_8$	{1279, 13458, 23567, 4689}
9531:70	$0, 0, 0, 0, \frac{6}{427}\sqrt{371}e^{12}, \frac{18}{427}\sqrt{7}e^{34}, \frac{3}{427}\sqrt{1358}e^{15}, \frac{9}{427}\sqrt{154}e^{36},$ $\frac{3}{427}\sqrt{1526}e^{17} + \frac{6}{427}\sqrt{21}e^{46}$	$(-\frac{3}{61}, \frac{12}{61}, -\frac{9}{61}, \frac{6}{61}, \frac{9}{61}, -\frac{3}{61}, \frac{6}{61}, -\frac{12}{61}, \frac{3}{61})$ $+ \frac{12}{427}\sqrt{119}e^2 \otimes e_9 + \frac{3}{427}\sqrt{3318}e^1 \otimes e_8$	{12367, 159}
9531:70	$0, 0, 0, 0, \frac{3}{1559}\sqrt{66}e^{12}, \frac{1}{1559}\sqrt{1074}e^{34}, \frac{2}{1559}\sqrt{314}e^{15}, \frac{2}{1559}\sqrt{546}e^{36},$ $\frac{1}{1559}\sqrt{1986}e^{17} + \frac{2}{1559}\sqrt{79}e^{46}$	$(-\frac{17}{1559}, \frac{40}{1559}, -\frac{9}{1559}, -\frac{1}{1559}, \frac{23}{1559}, -\frac{10}{1559}, \frac{6}{1559}, -\frac{19}{1559}, -\frac{11}{1559})$ $+ \frac{1}{1559}\sqrt{3014}e^1 \otimes e_8 + \frac{2}{1559}\sqrt{617}e^3 \otimes e_9$	{12367, 159, 2456789, 348}
9531:70	$0, 0, 0, 0, \frac{3}{1559}\sqrt{66}e^{12}, \frac{1}{1559}\sqrt{1074}e^{34}, \frac{2}{1559}\sqrt{314}e^{15}, \frac{2}{1559}\sqrt{546}e^{36},$ $\frac{1}{1559}\sqrt{1986}e^{17} + \frac{2}{1559}\sqrt{79}e^{46}$	$(-\frac{17}{1559}, \frac{40}{1559}, \frac{9}{1559}, -\frac{1}{1559}, \frac{23}{1559}, -\frac{10}{1559}, \frac{6}{1559}, -\frac{19}{1559}, -\frac{11}{1559})$ $+ \frac{1}{1559}\sqrt{3014}e^1 \otimes e_8 - \frac{2}{1559}\sqrt{617}e^3 \otimes e_9$	{12367, 159, 2456789, 348}
9531:71	$0, 0, 0, 0, \frac{152}{2953}\sqrt{30}e^{12}, \frac{19}{2953}\sqrt{4586}e^{13}, \frac{19}{2953}\sqrt{3346}e^{15},$ $\frac{38}{2953}\sqrt{1187}e^{16} + \frac{19}{2953}\sqrt{4918}e^{34}, \frac{19}{2953}\sqrt{4278}e^{17} + \frac{171}{2953}\sqrt{6}e^{36}$	$(\frac{247}{2953}, -\frac{608}{2953}, -\frac{57}{2953}, \frac{494}{2953}, -\frac{361}{2953}, \frac{190}{2953}, -\frac{114}{2953}, \frac{437}{2953}, \frac{133}{2953})$ $+ \frac{969}{2953}\sqrt{2}e^4 \otimes e_9$	{235789, 25679}
9531:71	$0, 0, 0, 0, \frac{41}{2749}\sqrt{1914}e^{12}, \frac{82}{2749}\sqrt{681}e^{13}, \frac{82}{2749}\sqrt{10}e^{15},$ $\frac{41}{2749}\sqrt{2894}e^{16} + \frac{164}{2749}\sqrt{93}e^{34}, \frac{656}{2749}\sqrt{3}e^{17} + \frac{41}{2749}\sqrt{510}e^{36}$	$(\frac{533}{2749}, -\frac{1148}{2749}, -\frac{41}{2749}, \frac{1066}{2749}, -\frac{615}{2749}, \frac{492}{2749}, -\frac{82}{2749}, \frac{1025}{2749}, \frac{451}{2749})$ $+ \frac{41}{2749}\sqrt{4854}e^1 \otimes e_2$	{2346789, 2479}
9531:71	$0, 0, 0, 0, \frac{65}{601}\sqrt{15}e^{12}, \frac{52}{601}\sqrt{79}e^{13}, \frac{26}{601}\sqrt{155}e^{15},$ $\frac{91}{601}\sqrt{13}e^{16} + \frac{26}{601}\sqrt{215}e^{34}, \frac{91}{601}\sqrt{15}e^{17} + \frac{156}{601}\sqrt{5}e^{36}$	$(-\frac{65}{601}, \frac{208}{601}, \frac{39}{601}, -\frac{130}{601}, \frac{143}{601}, -\frac{26}{601}, \frac{78}{601}, -\frac{91}{601}, \frac{13}{601})$ $+ \frac{39}{601}\sqrt{129}e^3 \otimes e_4$	{1245679, 247}
9531:71	$0, 0, 0, 0, \frac{11}{1007}\sqrt{3666}e^{12}, \frac{11}{1007}\sqrt{3606}e^{13}, \frac{264}{1007}\sqrt{5}e^{15},$ $\frac{11}{1007}\sqrt{4170}e^{16} + \frac{22}{1007}\sqrt{579}e^{34}, \frac{22}{1007}\sqrt{705}e^{17} + \frac{66}{1007}\sqrt{47}e^{36}$	$(-\frac{121}{1007}, \frac{396}{1007}, \frac{77}{1007}, -\frac{242}{1007}, \frac{275}{1007}, -\frac{44}{1007}, \frac{154}{1007}, -\frac{165}{1007}, \frac{33}{1007})$ $+ \frac{11}{1007}\sqrt{5178}e^2 \otimes e_9$	{123678, 127}
9531:72	$0, 0, 0, 0, \frac{77}{6757}\sqrt{446}e^{12}, \frac{77}{6757}\sqrt{898}e^{13}, \frac{77}{6757}\sqrt{778}e^{25},$ $\frac{308}{6757}\sqrt{105}e^{16} + \frac{77}{6757}\sqrt{4582}e^{34}, \frac{77}{6757}\sqrt{3574}e^{27} + \frac{77}{6757}\sqrt{2346}e^{36}$	$(\frac{77}{233}, -\frac{1232}{6757}, -\frac{1848}{6757}, \frac{154}{233}, \frac{1001}{6757}, \frac{385}{6757}, -\frac{231}{6757}, \frac{2618}{6757}, -\frac{1463}{6757})$ $+ \frac{154}{6757}\sqrt{2795}e^4 \otimes e_9$	{23589, 2569}
9531:72	$0, 0, 0, 0, \frac{2336}{6487}e^{12}, \frac{292}{6487}\sqrt{358}e^{13}, \frac{73}{6487}\sqrt{658}e^{25},$ $\frac{73}{6487}\sqrt{190}e^{16} + \frac{219}{6487}\sqrt{354}e^{34}, \frac{146}{6487}\sqrt{218}e^{27} + \frac{73}{6487}\sqrt{5614}e^{36}$	$(-\frac{1460}{6487}, \frac{1606}{6487}, \frac{2409}{6487}, -\frac{2920}{6487}, \frac{146}{499}, \frac{73}{499}, \frac{1752}{6487}, -\frac{511}{6487}, \frac{3358}{6487})$ $+ \frac{730}{6487}\sqrt{110}e^3 \otimes e_4$	{1469, 457}
9531:72	$0, 0, 0, 0, \frac{296}{6927}\sqrt{39}e^{12}, \frac{148}{2309}\sqrt{14}e^{13}, \frac{37}{6927}\sqrt{4618}e^{25},$ $\frac{37}{6927}\sqrt{3270}e^{16} + \frac{37}{2309}\sqrt{614}e^{34}, \frac{74}{2309}\sqrt{142}e^{27} + \frac{37}{2309}\sqrt{442}e^{36}$	$(-\frac{296}{2309}, \frac{814}{6927}, \frac{407}{2309}, -\frac{592}{2309}, -\frac{74}{6927}, \frac{111}{2309}, \frac{740}{6927}, -\frac{185}{2309}, \frac{518}{2309})$ $+ \frac{74}{2309}\sqrt{330}e^2 \otimes e_8$	{145789, 468}
9531:73	$0, 0, 0, 0, \frac{2}{2241}\sqrt{889665}e^{12}, \frac{2}{2241}\sqrt{479755}e^{13}, \frac{2}{2241}\sqrt{373270}e^{15},$ $\frac{16}{2241}\sqrt{3435}e^{16}, \frac{40}{2241}\sqrt{458}e^{17} + \frac{2}{2241}\sqrt{779745}e^{23}$	$(\frac{35}{2241}, \frac{29}{83}, \frac{35}{747}, -\frac{1507}{2241}, \frac{818}{2241}, \frac{140}{2241}, \frac{853}{2241}, \frac{175}{2241}, \frac{296}{747})$ $+ \frac{2}{2241}\sqrt{2145730}e^2 \otimes e_4$	{1279, 145, 23578, 3489}
9531:73	$0, 0, 0, 0, \frac{94}{5157}\sqrt{163}e^{12}, \frac{94}{5157}\sqrt{277}e^{13}, \frac{188}{5157}\sqrt{7}e^{15},$ $\frac{47}{5157}\sqrt{1830}e^{16}, \frac{47}{5157}\sqrt{42}e^{17} + \frac{94}{5157}\sqrt{894}e^{23}$	$(-\frac{235}{5157}, \frac{1034}{5157}, -\frac{235}{5157}, \frac{94}{1719}, \frac{799}{191}, \frac{940}{5157}, -\frac{188}{1719}, -\frac{1175}{5157}, \frac{329}{5157})$ $+ \frac{329}{5157}\sqrt{82}e^4 \otimes e_9 + \frac{47}{1719}\sqrt{582}e^2 \otimes e_8$	{123467, 468}
9531:73	$0, 0, 0, 0, \frac{6}{2249}\sqrt{38315}e^{12}, \frac{6}{2249}\sqrt{5335}e^{13}, \frac{6}{2249}\sqrt{14938}e^{15},$ $\frac{12}{2249}\sqrt{20758}e^{16}, \frac{24}{2249}\sqrt{3395}e^{17} + \frac{6}{2249}\sqrt{79831}e^{23}$	$(-\frac{11}{173}, \frac{1031}{2249}, -\frac{33}{173}, \frac{339}{2249}, \frac{888}{2249}, -\frac{44}{173}, \frac{745}{2249}, -\frac{55}{173}, \frac{602}{2249})$ $+ \frac{6}{2249}\sqrt{185270}e^2 \otimes e_8$	{12346, 1236, 4678, 678}
9531:73	$0, 0, 0, 0, \frac{100}{613}\sqrt{5}e^{12}, \frac{20}{613}\sqrt{39}e^{13}, \frac{10}{613}\sqrt{214}e^{15}, \frac{10}{613}\sqrt{590}e^{16},$ $\frac{40}{613}\sqrt{2}e^{17} + \frac{10}{613}\sqrt{238}e^{23}$	$(-\frac{10}{613}, \frac{150}{613}, -\frac{30}{613}, -\frac{210}{613}, \frac{140}{613}, -\frac{40}{613}, \frac{130}{613}, -\frac{50}{613}, \frac{120}{613})$ $+ \frac{10}{613}\sqrt{1114}e^1 \otimes e_4 + \frac{20}{613}\sqrt{266}e^2 \otimes e_8$	{12679, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:73	$0, 0, 0, 0, \frac{40}{2241}\sqrt{458}e^{12}, \frac{2}{2241}\sqrt{479755}e^{13}, \frac{2}{2241}\sqrt{373270}e^{15}, \frac{16}{2241}\sqrt{3435}e^{16}, \frac{2}{2241}\sqrt{889665}e^{17} + \frac{2}{2241}\sqrt{779745}e^{23}$	$(\frac{35}{2241}, -\frac{154}{2241}, \frac{35}{747}, 1, -\frac{119}{2241}, \frac{140}{2241}, -\frac{28}{747}, \frac{175}{2241}, -\frac{49}{2241}) + \frac{2}{2241}\sqrt{2145730}e^4 \otimes e_9$	{1259, 147, 2348, 35789}
9531:73	$0, 0, 0, 0, \frac{1}{74}\sqrt{1749}e^{12}, \frac{1}{74}\sqrt{1166}e^{13}, \frac{1}{74}\sqrt{1961}e^{15}, \frac{1}{74}\sqrt{795}e^{16}, \frac{1}{74}\sqrt{1749}e^{17} + \frac{1}{74}\sqrt{1113}e^{23}$	$(\frac{2}{37}, \frac{13}{148}, \frac{6}{37}, -\frac{49}{74}, \frac{21}{148}, \frac{8}{37}, \frac{29}{148}, \frac{10}{37}, \frac{1}{4}) + \frac{1}{74}\sqrt{6519}e^1 \otimes e_4$	{1267, 1569, 23456789, 3468}
9531:73	$0, 0, 0, 0, \frac{9}{137}\sqrt{82}e^{12}, \frac{63}{137}\sqrt{2}e^{13}, \frac{18}{137}\sqrt{23}e^{15}, \frac{18}{137}\sqrt{67}e^{16}, \frac{9}{137}\sqrt{82}e^{17} + \frac{18}{137}\sqrt{13}e^{23}$	$(-\frac{5}{137}, \frac{30}{137}, -\frac{15}{137}, \frac{1}{137}, \frac{25}{137}, -\frac{20}{137}, \frac{20}{137}, -\frac{25}{137}, \frac{15}{137}) + \frac{9}{137}\sqrt{458}e^4 \otimes e_8$	{1245679, 146, 23678, 35689}
9531:73	$0, 0, 0, 0, \frac{7}{491}\sqrt{51}e^{12}, \frac{14}{491}\sqrt{141}e^{13}, \frac{84}{491}\sqrt{3}e^{15}, \frac{21}{491}\sqrt{109}e^{16}, \frac{7}{491}\sqrt{771}e^{17} + \frac{14}{491}\sqrt{267}e^{23}$	$(-\frac{7}{491}, \frac{112}{491}, -\frac{21}{491}, -\frac{168}{491}, \frac{105}{491}, -\frac{28}{491}, \frac{98}{491}, -\frac{35}{491}, \frac{91}{491}) + \frac{7}{491}\sqrt{1257}e^3 \otimes e_4 + \frac{84}{491}\sqrt{10}e^2 \otimes e_8$	{1245679, 35689}
9531:73	$0, 0, 0, 0, \frac{1}{137}\sqrt{7611}e^{12}, \frac{2}{137}\sqrt{3741}e^{13}, \frac{12}{137}\sqrt{43}e^{15}, \frac{3}{137}\sqrt{989}e^{16}, \frac{1}{137}\sqrt{7611}e^{17} + \frac{2}{137}\sqrt{2967}e^{23}$	$(\frac{11}{137}, \frac{4}{137}, \frac{33}{137}, -\frac{96}{137}, \frac{15}{137}, \frac{44}{137}, \frac{26}{137}, \frac{55}{137}, \frac{37}{137}) + \frac{1}{137}\sqrt{30057}e^3 \otimes e_4$	{1245679, 146, 23678, 35689}
9531:74	$0, 0, 0, 0, \frac{1}{161}\sqrt{265}e^{12}, \frac{1}{161}\sqrt{299}e^{13}, \frac{1}{161}\sqrt{194}e^{15}, \frac{1}{161}\sqrt{326}e^{16}, \frac{3}{161}\sqrt{15}e^{17} + \frac{2}{161}\sqrt{87}e^{24}$	$(\frac{3}{161}, -\frac{10}{161}, \frac{1}{161}, \frac{9}{161}, -\frac{1}{23}, \frac{4}{161}, -\frac{4}{161}, \frac{23}{161}, -\frac{1}{161}) + \frac{1}{161}\sqrt{341}e^4 \otimes e_8 + \frac{2}{161}\sqrt{65}e^3 \otimes e_9$	{138, 459}
9531:74	$0, 0, 0, 0, \frac{2}{43}\sqrt{35}e^{12}, \frac{2}{129}\sqrt{770}e^{13}, \frac{5}{129}\sqrt{70}e^{15}, \frac{2}{129}\sqrt{770}e^{16}, \frac{2}{43}\sqrt{35}e^{17} + \frac{5}{129}\sqrt{154}e^{24}$	$(-\frac{14}{129}, \frac{34}{129}, \frac{9}{43}, -\frac{14}{43}, \frac{20}{129}, \frac{13}{129}, \frac{2}{43}, -\frac{1}{129}, -\frac{8}{129}) + \frac{2}{129}\sqrt{1015}e^2 \otimes e_8 + \frac{2}{129}\sqrt{1015}e^3 \otimes e_9$	{125679, 138}
9531:74	$0, 0, 0, 0, \frac{5}{49}\sqrt{14}e^{12}, \frac{2}{49}\sqrt{70}e^{13}, \frac{1}{7}\sqrt{6}e^{15}, \frac{2}{49}\sqrt{35}e^{16}, \frac{1}{49}\sqrt{238}e^{17} + \frac{1}{49}\sqrt{182}e^{24}$	$(0, \frac{1}{7}, -\frac{1}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}) + \frac{2}{49}\sqrt{105}e^1 \otimes e_3 + \frac{4}{49}\sqrt{14}e^2 \otimes e_4$	{127, 348}
9531:74	$0, 0, 0, 0, \frac{14}{1027}\sqrt{645}e^{12}, \frac{7}{1027}\sqrt{5970}e^{13}, \frac{21}{1027}\sqrt{590}e^{15}, \frac{21}{1027}\sqrt{1630}e^{16}, \frac{7}{1027}\sqrt{10470}e^{17} + \frac{70}{1027}\sqrt{129}e^{24}$	$(-\frac{7}{79}, \frac{511}{1027}, -\frac{42}{1027}, \frac{21}{79}, \frac{420}{1027}, -\frac{133}{1027}, \frac{329}{1027}, -\frac{224}{1027}, \frac{238}{1027}) + \frac{210}{1027}\sqrt{29}e^2 \otimes e_8$	{1246, 1345789, 259, 3678}
9531:74	$0, 0, 0, 0, \frac{15}{61}\sqrt{6}e^{12}, \frac{6}{61}\sqrt{39}e^{13}, \frac{9}{61}\sqrt{14}e^{15}, \frac{6}{61}\sqrt{66}e^{16}, \frac{15}{61}\sqrt{6}e^{17} + \frac{3}{61}\sqrt{222}e^{24}$	$(\frac{8}{61}, -\frac{5}{61}, -\frac{19}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{11}{61}, \frac{11}{61}, -\frac{3}{61}, \frac{19}{61}) + \frac{54}{61}e^4 \otimes e_8$	{1235789, 138, 247, 459}
9531:74	$0, 0, 0, 0, \frac{14}{173}\sqrt{29}e^{12}, \frac{7}{173}\sqrt{78}e^{13}, \frac{7}{173}\sqrt{94}e^{15}, \frac{7}{173}\sqrt{26}e^{16}, \frac{7}{173}\sqrt{58}e^{17} + \frac{14}{173}\sqrt{2}e^{24}$	$(\frac{7}{173}, \frac{21}{173}, -\frac{42}{173}, \frac{21}{173}, \frac{28}{173}, -\frac{35}{173}, \frac{35}{173}, -\frac{28}{173}, \frac{42}{173}) + \frac{14}{173}\sqrt{29}e^2 \otimes e_8 + \frac{98}{173}e^1 \otimes e_3$	{1589, 234579}
9531:74	$0, 0, 0, 0, \frac{3}{61}\sqrt{174}e^{12}, \frac{6}{61}\sqrt{42}e^{13}, \frac{9}{61}\sqrt{22}e^{15}, \frac{6}{61}\sqrt{15}e^{16}, \frac{3}{61}\sqrt{174}e^{17} + \frac{3}{61}\sqrt{102}e^{24}$	$(\frac{8}{61}, -\frac{5}{61}, -\frac{19}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{11}{61}, \frac{11}{61}, -\frac{3}{61}, \frac{19}{61}) + \frac{54}{61}e^1 \otimes e_3$	{127, 159, 2345789, 348}
9531:74	$0, 0, 0, 0, \frac{43}{2989}\sqrt{610}e^{12}, \frac{1247}{2989}\sqrt{2}e^{13}, \frac{43}{2989}\sqrt{462}e^{15}, \frac{43}{2989}\sqrt{454}e^{16}, \frac{86}{2989}\sqrt{115}e^{17} + \frac{86}{2989}\sqrt{382}e^{24}$	$(-\frac{387}{2989}, \frac{688}{2989}, \frac{1376}{2989}, -\frac{1161}{2989}, \frac{43}{427}, \frac{989}{2989}, -\frac{86}{2989}, \frac{86}{427}, -\frac{473}{2989}) + \frac{86}{2989}\sqrt{386}e^2 \otimes e_4 + \frac{86}{2989}\sqrt{921}e^3 \otimes e_9$	{1469, 279}
9531:74	$0, 0, 0, 0, \frac{1}{323}\sqrt{120590}e^{12}, \frac{2}{323}\sqrt{11670}e^{13}, \frac{1}{323}\sqrt{44346}e^{15}, \frac{1}{323}\sqrt{11670}e^{16}, \frac{1}{323}\sqrt{14782}e^{17} + \frac{1}{323}\sqrt{31898}e^{24}$	$(-\frac{60}{323}, \frac{11}{17}, \frac{111}{323}, -\frac{180}{323}, \frac{149}{323}, \frac{3}{19}, \frac{89}{323}, -\frac{9}{323}, \frac{29}{323}) + \frac{4}{323}\sqrt{13226}e^2 \otimes e_4$	{123678, 127, 348, 46}
9531:74	$0, 0, 0, 0, \frac{7}{1027}\sqrt{10470}e^{12}, \frac{21}{1027}\sqrt{1630}e^{13}, \frac{21}{1027}\sqrt{590}e^{15}, \frac{7}{1027}\sqrt{5970}e^{16}, \frac{14}{1027}\sqrt{645}e^{17} + \frac{70}{1027}\sqrt{129}e^{24}$	$(-\frac{7}{79}, \frac{76}{1027}, \frac{538}{1027}, -\frac{21}{79}, -\frac{15}{1027}, \frac{447}{1027}, -\frac{106}{1027}, \frac{356}{1027}, -\frac{197}{1027}) + \frac{210}{1027}\sqrt{29}e^3 \otimes e_9$	{1234578, 1469, 279, 3568}
9531:75	$0, 0, 0, 0, \frac{5}{543}\sqrt{2478}e^{12}, \frac{2}{543}\sqrt{42539}e^{13}, \frac{1}{543}\sqrt{25606}e^{25}, \frac{2}{543}\sqrt{42539}e^{16}, \frac{10}{543}\sqrt{1239}e^{14} + \frac{28}{543}\sqrt{59}e^{27}$	$(\frac{206}{543}, -\frac{23}{181}, -\frac{113}{543}, -\frac{69}{181}, \frac{137}{543}, \frac{31}{181}, \frac{68}{543}, \frac{299}{543}, -\frac{1}{543}) + \frac{10}{181}\sqrt{413}e^1 \otimes e_4$	{12378, 1267, 3468, 4}
9531:75	$0, 0, 0, 0, \frac{35}{1023}\sqrt{42}e^{12}, \frac{7}{1023}\sqrt{5474}e^{13}, \frac{7}{1023}\sqrt{574}e^{25}, \frac{7}{1023}\sqrt{3374}e^{16}, \frac{35}{1023}\sqrt{42}e^{14} + \frac{7}{1023}\sqrt{3374}e^{27}$	$(\frac{91}{1023}, -\frac{28}{341}, \frac{182}{1023}, -\frac{84}{341}, \frac{1023}{1023}, \frac{91}{341}, -\frac{7}{93}, \frac{364}{1023}, -\frac{161}{1023}) + \frac{70}{341}\sqrt{7}e^1 \otimes e_4 + \frac{70}{341}\sqrt{7}e^3 \otimes e_9$	{138, 234678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:75	$0, 0, 0, 0, \frac{114}{2857}\sqrt{111}e^{12}, \frac{38}{2857}\sqrt{915}e^{13}, \frac{57}{2857}\sqrt{70}e^{25},$ $\frac{76}{2857}\sqrt{183}e^{16}, \frac{209}{2857}\sqrt{30}e^{14} + \frac{38}{2857}\sqrt{915}e^{27}$	$(-\frac{722}{2857}, \frac{266}{2857}, \frac{1159}{2857}, \frac{798}{2857}, -\frac{456}{2857}, \frac{437}{2857}, -\frac{190}{2857}, -\frac{285}{2857}, \frac{76}{2857})$ $+\frac{152}{2857}\sqrt{102}e^4 \otimes e_8 + \frac{38}{2857}\sqrt{2181}e^3 \otimes e_9$	{23678, 4579}
9531:75	$0, 0, 0, 0, \frac{74}{699}e^{12}, \frac{74}{6291}\sqrt{645}e^{13}, \frac{37}{6291}\sqrt{2758}e^{25}, \frac{74}{6291}\sqrt{842}e^{16},$ $\frac{37}{6291}\sqrt{1506}e^{14} + \frac{74}{6291}\sqrt{1201}e^{27}$	$(-\frac{1258}{6291}, \frac{518}{6291}, \frac{185}{699}, \frac{518}{2097}, -\frac{740}{6291}, \frac{407}{6291}, -\frac{74}{2097}, -\frac{851}{6291}, \frac{296}{6291})$ $+\frac{148}{6291}\sqrt{417}e^2 \otimes e_8 + \frac{74}{6291}\sqrt{1077}e^3 \otimes e_9$	{124569, 138}
9531:75	$0, 0, 0, 0, \frac{10}{69}\sqrt{3}e^{12}, \frac{5}{69}\sqrt{14}e^{13}, \frac{10}{69}e^{25}, \frac{10}{69}\sqrt{7}e^{16},$ $\frac{5}{69}\sqrt{42}e^{14} + \frac{5}{69}\sqrt{14}e^{27}$	$(\frac{5}{69}, \frac{5}{69}, -\frac{20}{69}, \frac{5}{23}, \frac{10}{69}, -\frac{5}{23}, \frac{5}{23}, -\frac{10}{69}, \frac{20}{69})$ $+\frac{10}{69}\sqrt{15}e^4 \otimes e_8 + \frac{5}{69}\sqrt{66}e^1 \otimes e_3$	{12789, 349}
9531:75	$0, 0, 0, 0, \frac{10}{43}\sqrt{10}e^{12}, \frac{5}{129}\sqrt{170}e^{13}, \frac{5}{129}\sqrt{70}e^{25}, \frac{5}{129}\sqrt{190}e^{16},$ $\frac{10}{43}\sqrt{10}e^{14} + \frac{5}{129}\sqrt{170}e^{27}$	$(\frac{55}{129}, -\frac{5}{129}, -\frac{70}{129}, -\frac{5}{43}, \frac{50}{129}, -\frac{5}{43}, \frac{15}{43}, \frac{40}{129}, \frac{40}{129})$ $+\frac{10}{43}\sqrt{30}e^1 \otimes e_3$	{12789, 14578, 235, 349}
9531:75	$0, 0, 0, 0, \frac{14}{561}\sqrt{195}e^{12}, \frac{7}{561}\sqrt{570}e^{13}, \frac{7}{561}\sqrt{1870}e^{25}, \frac{7}{561}\sqrt{2130}e^{16},$ $\frac{14}{561}\sqrt{390}e^{14} + \frac{7}{561}\sqrt{2130}e^{27}$	$(-\frac{3}{17}, \frac{83}{561}, \frac{12}{187}, \frac{83}{187}, -\frac{16}{561}, -\frac{21}{187}, \frac{67}{561}, -\frac{54}{187}, \frac{50}{187})$ $+\frac{14}{187}\sqrt{130}e^2 \otimes e_8$	{1267, 1345789, 259, 3468}
9531:75	$0, 0, 0, 0, \frac{16}{4599}\sqrt{687}e^{12}, \frac{16}{1533}\sqrt{109}e^{13}, \frac{32}{4599}\sqrt{235}e^{25},$ $\frac{16}{4599}\sqrt{1762}e^{16}, \frac{16}{4599}\sqrt{1374}e^{14} + \frac{16}{4599}\sqrt{1169}e^{27}$	$(\frac{200}{4599}, \frac{8}{1533}, -\frac{8}{73}, \frac{8}{511}, \frac{32}{657}, -\frac{304}{4599}, \frac{248}{4599}, -\frac{104}{4599}, \frac{272}{4599})$ $+\frac{16}{4599}\sqrt{1779}e^1 \otimes e_4 + \frac{16}{4599}\sqrt{2343}e^2 \otimes e_8$	{1267, 3468}
9531:75	$0, 0, 0, 0, \frac{10}{543}\sqrt{1239}e^{12}, \frac{2}{543}\sqrt{42539}e^{13}, \frac{1}{543}\sqrt{25606}e^{25}, \frac{28}{543}\sqrt{59}e^{16},$ $\frac{5}{543}\sqrt{2478}e^{14} + \frac{2}{543}\sqrt{42539}e^{27}$	$(-\frac{94}{543}, \frac{2}{181}, \frac{337}{543}, \frac{6}{181}, -\frac{88}{543}, \frac{81}{181}, -\frac{82}{543}, \frac{149}{543}, -\frac{76}{543})$ $+\frac{10}{181}\sqrt{413}e^3 \otimes e_9$	{12569, 1348, 23678, 4579}
9531:75	$0, 0, 0, 0, \frac{4}{175}\sqrt{569}e^{12}, \frac{1}{525}\sqrt{7966}e^{13}, \frac{1}{525}\sqrt{35278}e^{25}, \frac{1}{525}\sqrt{171838}e^{16},$ $\frac{4}{175}\sqrt{1138}e^{14} + \frac{1}{525}\sqrt{7966}e^{27}$	$(-\frac{137}{525}, \frac{127}{525}, \frac{86}{525}, \frac{127}{175}, -\frac{2}{105}, -\frac{17}{175}, \frac{39}{175}, -\frac{188}{525}, \frac{244}{525})$ $+\frac{4}{175}\sqrt{3414}e^4 \otimes e_8$	{123589, 146, 23678, 4579}
9531:76	$0, 0, 0, 0, \frac{7}{421}\sqrt{206}e^{12}, \frac{7}{421}\sqrt{170}e^{34}, \frac{7}{421}\sqrt{226}e^{15}, \frac{7}{421}\sqrt{302}e^{36},$ $\frac{84}{421}\sqrt{2}e^{17} + \frac{14}{421}\sqrt{57}e^{23}$	$(-\frac{21}{421}, \frac{70}{421}, -\frac{63}{421}, \frac{56}{421}, \frac{49}{421}, -\frac{7}{421}, \frac{28}{421}, -\frac{70}{421}, \frac{7}{421})$ $+\frac{14}{421}\sqrt{41}e^4 \otimes e_9 + \frac{28}{421}\sqrt{35}e^1 \otimes e_8$	{159, 348}
9531:76	$0, 0, 0, 0, \frac{7}{387}\sqrt{546}e^{12}, \frac{7}{387}\sqrt{1498}e^{34}, \frac{7}{387}\sqrt{322}e^{15}, \frac{7}{387}\sqrt{14}e^{36},$ $\frac{28}{387}\sqrt{105}e^{17} + \frac{14}{387}\sqrt{231}e^{23}$	$(-\frac{35}{387}, \frac{14}{129}, -\frac{35}{129}, \frac{280}{387}, \frac{7}{387}, \frac{175}{387}, -\frac{28}{387}, \frac{70}{387}, -\frac{7}{43})$ $+\frac{14}{387}\sqrt{1113}e^4 \otimes e_9$	{1259, 14678, 2348, 35679}
9531:76	$0, 0, 0, 0, \frac{28}{387}\sqrt{105}e^{12}, \frac{7}{387}\sqrt{14}e^{34}, \frac{7}{387}\sqrt{322}e^{15}, \frac{7}{387}\sqrt{1498}e^{36},$ $\frac{7}{387}\sqrt{546}e^{17} + \frac{14}{387}\sqrt{231}e^{23}$	$(-\frac{35}{387}, \frac{67}{129}, -\frac{35}{129}, \frac{68}{387}, \frac{166}{387}, -\frac{37}{387}, \frac{131}{387}, -\frac{142}{387}, \frac{32}{129})$ $+\frac{14}{387}\sqrt{1113}e^2 \otimes e_8$	{1279, 14568, 23567, 3489}
9531:76	$0, 0, 0, 0, \frac{1}{43}\sqrt{230}e^{12}, \frac{4}{129}\sqrt{69}e^{34}, \frac{1}{129}\sqrt{1978}e^{15}, \frac{2}{129}\sqrt{690}e^{36},$ $\frac{1}{43}\sqrt{230}e^{17} + \frac{1}{129}\sqrt{2346}e^{23}$	$(-\frac{4}{129}, \frac{9}{43}, -\frac{4}{43}, -\frac{1}{43}, \frac{23}{129}, -\frac{5}{43}, \frac{19}{129}, -\frac{9}{43}, \frac{5}{43})$ $+\frac{2}{43}\sqrt{138}e^1 \otimes e_8$	{127, 159, 2345789, 348}
9531:76	$0, 0, 0, 0, \frac{18}{1213}\sqrt{399}e^{12}, \frac{36}{1213}\sqrt{133}e^{34}, \frac{9}{1213}\sqrt{714}e^{15},$ $\frac{36}{1213}\sqrt{133}e^{36}, \frac{18}{1213}\sqrt{399}e^{17} + \frac{9}{1213}\sqrt{3178}e^{23}$	$(-\frac{126}{1213}, \frac{342}{1213}, -\frac{378}{1213}, \frac{531}{1213}, \frac{216}{1213}, \frac{153}{1213}, \frac{90}{1213}, -\frac{225}{1213}, -\frac{36}{1213})$ $+\frac{18}{1213}\sqrt{1855}e^2 \otimes e_8 + \frac{18}{1213}\sqrt{1855}e^4 \otimes e_9$	{2579, 468}
9531:76	$0, 0, 0, 0, \frac{1}{117}\sqrt{786}e^{12}, \frac{2}{117}\sqrt{262}e^{34}, \frac{1}{117}\sqrt{1834}e^{15}, \frac{2}{117}\sqrt{1834}e^{36},$ $\frac{1}{117}\sqrt{786}e^{17} + \frac{1}{117}\sqrt{8646}e^{23}$	$(\frac{20}{117}, -\frac{1}{13}, \frac{20}{39}, -\frac{71}{117}, \frac{11}{117}, -\frac{11}{117}, \frac{31}{117}, \frac{49}{117}, \frac{17}{39})$ $+\frac{8}{117}\sqrt{393}e^3 \otimes e_4$	{12358, 13789, 249, 457}
9531:76	$0, 0, 0, 0, \frac{8}{387}\sqrt{222}e^{12}, \frac{8}{387}\sqrt{82}e^{34}, \frac{56}{387}e^{15}, \frac{8}{387}\sqrt{385}e^{36},$ $\frac{16}{387}\sqrt{39}e^{17} + \frac{8}{387}\sqrt{393}e^{23}$	$(\frac{8}{387}, \frac{8}{43}, \frac{8}{129}, -\frac{104}{387}, \frac{80}{387}, -\frac{80}{387}, \frac{88}{387}, -\frac{56}{387}, \frac{32}{129})$ $+\frac{16}{129}\sqrt{21}e^2 \otimes e_8 + \frac{8}{387}\sqrt{645}e^3 \otimes e_4$	{12479, 389}
9531:77	$0, 0, 0, 0, \frac{44}{1909}\sqrt{38}e^{12}, \frac{88}{1909}\sqrt{19}e^{34}, \frac{220}{1909}e^{15}, \frac{44}{5727}\sqrt{1909}e^{36},$ $\frac{44}{5727}\sqrt{570}e^{17} + \frac{132}{1909}\sqrt{17}e^{24}$	$(-\frac{154}{1909}, \frac{418}{1909}, \frac{836}{5727}, -\frac{462}{1909}, \frac{264}{1909}, -\frac{550}{5727}, \frac{110}{1909}, \frac{286}{5727}, -\frac{44}{1909})$ $+\frac{132}{1909}\sqrt{34}e^3 \otimes e_9 + \frac{44}{5727}\sqrt{2298}e^2 \otimes e_8$	{145689, 2579}
9531:77	$0, 0, 0, 0, \frac{8}{4587}\sqrt{15194}e^{12}, \frac{8}{1529}\sqrt{2354}e^{34}, \frac{8}{1529}\sqrt{3103}e^{15},$ $\frac{8}{4587}\sqrt{163603}e^{36}, \frac{32}{4587}\sqrt{4173}e^{17} + \frac{24}{1529}\sqrt{1819}e^{24}$	$(-\frac{4}{139}, \frac{644}{1529}, -\frac{548}{139}, -\frac{12}{139}, \frac{600}{1529}, -\frac{944}{4587}, \frac{4}{11}, -\frac{1492}{4587}, \frac{512}{1529})$ $+\frac{16}{4587}\sqrt{101757}e^2 \otimes e_8$	{1358, 1568, 234567, 2457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:77	$0, 0, 0, 0, \frac{4}{487}\sqrt{17}e^{12}, \frac{4}{1461}\sqrt{267}e^{34}, \frac{4}{1461}\sqrt{291}e^{15}, \frac{4}{1461}\sqrt{487}e^{36},$ $\frac{4}{1461}\sqrt{447}e^{17} + \frac{4}{1461}\sqrt{33}e^{24}$	$(-\frac{6}{487}, \frac{20}{487}, \frac{14}{1461}, -\frac{18}{487}, \frac{14}{487}, -\frac{40}{1461}, \frac{8}{487}, -\frac{26}{1461}, \frac{2}{487})$ $+\frac{4}{487}\sqrt{77}e^1 \otimes e_8 + \frac{56}{1461}\sqrt{3}e^3 \otimes e_9$	{12367, 159, 2456789, 348}
9531:77	$0, 0, 0, 0, \frac{4}{487}\sqrt{17}e^{12}, \frac{4}{1461}\sqrt{267}e^{34}, \frac{4}{1461}\sqrt{291}e^{15}, \frac{4}{1461}\sqrt{487}e^{36},$ $\frac{4}{1461}\sqrt{447}e^{17} + \frac{4}{1461}\sqrt{33}e^{24}$	$(-\frac{6}{487}, \frac{20}{487}, \frac{14}{1461}, -\frac{18}{487}, \frac{14}{487}, -\frac{40}{1461}, \frac{8}{487}, -\frac{26}{1461}, \frac{2}{487})$ $-\frac{4}{487}\sqrt{77}e^1 \otimes e_8 + \frac{56}{1461}\sqrt{3}e^3 \otimes e_9$	{12367, 159, 2456789, 348}
9531:77	$0, 0, 0, 0, \frac{24}{4803}\sqrt{498}e^{12}, \frac{8}{4803}\sqrt{110058}e^{34}, \frac{8}{4803}\sqrt{23655}e^{15},$ $\frac{8}{4803}\sqrt{132883}e^{36}, \frac{32}{4803}\sqrt{7719}e^{17} + \frac{40}{4803}\sqrt{2739}e^{24}$	$(-\frac{144}{1601}, \frac{172}{1601}, \frac{1876}{4803}, -\frac{432}{1601}, \frac{28}{1601}, \frac{580}{4803}, -\frac{116}{1601}, \frac{2456}{4803}, -\frac{260}{1601})$ $+\frac{16}{4803}\sqrt{81921}e^3 \otimes e_9$	{1259, 1367, 2348, 456789}
9531:77	$0, 0, 0, 0, \frac{10}{51}\sqrt{6}e^{12}, \frac{4}{51}\sqrt{15}e^{34}, \frac{2}{51}\sqrt{170}e^{15}, \frac{2}{51}\sqrt{170}e^{36},$ $\frac{10}{51}\sqrt{6}e^{17} + \frac{2}{17}\sqrt{10}e^{24}$	$(\frac{4}{51}, \frac{1}{17}, -\frac{14}{51}, \frac{4}{17}, \frac{7}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{16}{51}, \frac{5}{17})$ $-\frac{4}{51}\sqrt{105}e^1 \otimes e_8$	{12367, 127, 13569, 159, 2345789, 2456789, 348, 468}
9531:77	$0, 0, 0, 0, \frac{10}{51}\sqrt{6}e^{12}, \frac{4}{51}\sqrt{15}e^{34}, \frac{2}{51}\sqrt{170}e^{15}, \frac{2}{51}\sqrt{170}e^{36},$ $\frac{10}{51}\sqrt{6}e^{17} + \frac{2}{17}\sqrt{10}e^{24}$	$(\frac{4}{51}, \frac{1}{17}, -\frac{14}{51}, \frac{4}{17}, \frac{7}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{16}{51}, \frac{5}{17})$ $+\frac{4}{51}\sqrt{105}e^1 \otimes e_8$	{12367, 127, 13569, 159, 2345789, 2456789, 348, 468}
9531:79	$0, 0, 0, 0, \frac{462}{3281}\sqrt{6}e^{12}, \frac{756}{3281}\sqrt{3}e^{13}, \frac{42}{3281}\sqrt{1221}e^{15},$ $\frac{42}{3281}\sqrt{259}e^{16} + \frac{42}{3281}\sqrt{223}e^{25}, \frac{42}{3281}\sqrt{1262}e^{17}$	$(\frac{231}{3281}, -\frac{210}{3281}, -\frac{651}{3281}, \frac{1365}{3281}, \frac{21}{3281}, -\frac{420}{3281}, \frac{252}{3281}, -\frac{189}{3281}, \frac{483}{3281})$ $+\frac{168}{3281}\sqrt{67}e^4 \otimes e_9 + \frac{84}{3281}\sqrt{479}e^1 \otimes e_3$	{1247, 159, 235789, 348}
9531:79	$0, 0, 0, 0, \frac{3}{53}\sqrt{6}e^{12}, \frac{9}{53}\sqrt{5}e^{13}, \frac{6}{53}\sqrt{6}e^{15},$ $\frac{6}{53}\sqrt{5}e^{16} + \frac{3}{53}\sqrt{7}e^{25}, \frac{3}{53}\sqrt{47}e^{17}$	$(-\frac{3}{53}, \frac{6}{53}, \frac{15}{53}, -\frac{21}{53}, \frac{3}{53}, \frac{12}{53}, 0, \frac{9}{53}, -\frac{3}{53})$ $+\frac{3}{53}\sqrt{107}e^1 \otimes e_4 + \frac{3}{53}\sqrt{82}e^3 \otimes e_9$	{1569, 3468}
9531:79	$0, 0, 0, 0, \frac{3}{143}\sqrt{665}e^{12}, \frac{6}{143}\sqrt{646}e^{13}, \frac{6}{143}\sqrt{247}e^{15},$ $\frac{3}{143}\sqrt{969}e^{16} + \frac{12}{143}\sqrt{19}e^{25}, \frac{3}{143}\sqrt{665}e^{17}$	$(-\frac{9}{143}, \frac{3}{13}, \frac{75}{143}, -\frac{96}{143}, \frac{24}{143}, \frac{6}{13}, \frac{15}{143}, \frac{57}{143}, \frac{6}{143})$ $+\frac{3}{143}\sqrt{4541}e^3 \otimes e_4$	{1245679, 146, 23678, 35689}
9531:79	$0, 0, 0, 0, \frac{2}{2337}\sqrt{37258}e^{12}, \frac{8}{2337}\sqrt{27227}e^{13}, \frac{2}{2337}\sqrt{437065}e^{15},$ $\frac{2}{2337}\sqrt{508715}e^{16} + \frac{2}{779}\sqrt{24361}e^{25}, \frac{2}{779}\sqrt{157630}e^{17}$	$(-\frac{253}{2337}, \frac{230}{2337}, \frac{713}{2337}, 1, -\frac{23}{2337}, \frac{460}{2337}, -\frac{92}{779}, \frac{69}{779}, -\frac{529}{2337})$ $+\frac{4}{2337}\sqrt{690706}e^4 \otimes e_9$	{1234678, 135689, 25679, 46}
9531:79	$0, 0, 0, 0, \frac{462}{3281}\sqrt{6}e^{12}, \frac{756}{3281}\sqrt{3}e^{13}, \frac{42}{3281}\sqrt{1221}e^{15},$ $\frac{42}{3281}\sqrt{259}e^{16} + \frac{42}{3281}\sqrt{223}e^{25}, \frac{42}{3281}\sqrt{1262}e^{17}$	$(\frac{231}{3281}, -\frac{210}{3281}, -\frac{651}{3281}, \frac{1365}{3281}, \frac{21}{3281}, -\frac{420}{3281}, \frac{252}{3281}, -\frac{189}{3281}, \frac{483}{3281})$ $+\frac{168}{3281}\sqrt{67}e^4 \otimes e_9 - \frac{84}{3281}\sqrt{479}e^1 \otimes e_3$	{1247, 159, 235789, 348}
9531:79	$0, 0, 0, 0, \frac{2}{2349}\sqrt{1040997}e^{12}, \frac{8}{783}\sqrt{19666}e^{13}, \frac{2}{2349}\sqrt{99283}e^{15},$ $\frac{22}{2349}\sqrt{4915}e^{16} + \frac{2}{2349}\sqrt{934833}e^{25}, \frac{2}{2349}\sqrt{63895}e^{17}$	$(\frac{1}{81}, \frac{113}{783}, \frac{649}{2349}, -\frac{1627}{2349}, \frac{368}{2349}, \frac{226}{783}, \frac{397}{2349}, \frac{707}{2349}, \frac{142}{783})$ $+\frac{4}{2349}\sqrt{488551}e^2 \otimes e_4$	{123678, 1345689, 25679, 46}
9531:79	$0, 0, 0, 0, \frac{17}{517}\sqrt{202}e^{12}, \frac{17}{1551}\sqrt{582}e^{13}, \frac{136}{1551}\sqrt{3}e^{15},$ $\frac{34}{517}\sqrt{39}e^{16} + \frac{34}{1551}\sqrt{618}e^{25}, \frac{34}{1551}\sqrt{33}e^{17}$	$(-\frac{51}{517}, \frac{85}{517}, \frac{221}{517}, -\frac{204}{517}, \frac{34}{517}, \frac{170}{517}, -\frac{17}{517}, \frac{119}{517}, -\frac{68}{517})$ $+\frac{17}{1551}\sqrt{3486}e^3 \otimes e_9 + \frac{17}{1551}\sqrt{4746}e^2 \otimes e_4$	{12689, 2356}
9531:79	$0, 0, 0, 0, \frac{300}{1189}\sqrt{2}e^{12}, \frac{270}{1189}e^{13}, \frac{60}{1189}\sqrt{29}e^{15},$ $\frac{15}{1189}\sqrt{498}e^{16} + \frac{45}{1189}\sqrt{58}e^{25}, \frac{300}{1189}\sqrt{2}e^{17}$	$(-\frac{75}{1189}, \frac{105}{1189}, \frac{285}{1189}, -\frac{300}{1189}, \frac{30}{1189}, \frac{210}{1189}, -\frac{45}{1189}, \frac{135}{1189}, -\frac{120}{1189})$ $+\frac{15}{1189}\sqrt{1286}e^2 \otimes e_9 + \frac{45}{1189}\sqrt{94}e^1 \otimes e_4$	{123678, 135689}
9531:79	$0, 0, 0, 0, \frac{9}{245}\sqrt{133}e^{12}, \frac{9}{245}\sqrt{3}e^{13}, \frac{9}{245}\sqrt{10}e^{15},$ $\frac{36}{245}\sqrt{6}e^{16} + \frac{72}{245}\sqrt{3}e^{25}, \frac{9}{245}\sqrt{133}e^{17}$	$(-\frac{27}{245}, \frac{18}{245}, \frac{9}{35}, \frac{18}{49}, -\frac{9}{245}, \frac{36}{245}, -\frac{36}{245}, \frac{9}{245}, -\frac{9}{35})$ $+\frac{9}{245}\sqrt{129}e^4 \otimes e_8 + \frac{9}{245}\sqrt{310}e^2 \otimes e_9$	{123678, 135689}
9531:79	$0, 0, 0, 0, \frac{2}{591}\sqrt{33734}e^{12}, \frac{4}{591}\sqrt{8517}e^{13}, \frac{2}{591}\sqrt{48597}e^{15},$ $\frac{2}{591}\sqrt{2171}e^{16} + \frac{2}{591}\sqrt{10855}e^{25}, \frac{2}{591}\sqrt{33734}e^{17}$	$(\frac{113}{591}, -\frac{18}{197}, -\frac{221}{591}, \frac{83}{591}, \frac{59}{591}, -\frac{36}{197}, \frac{172}{591}, \frac{5}{591}, \frac{95}{197})$ $+\frac{4}{591}\sqrt{21209}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38}
9531:79	$0, 0, 0, 0, \frac{2}{591}\sqrt{33734}e^{12}, \frac{4}{591}\sqrt{8517}e^{13}, \frac{2}{591}\sqrt{48597}e^{15},$ $\frac{2}{591}\sqrt{2171}e^{16} + \frac{2}{591}\sqrt{10855}e^{25}, \frac{2}{591}\sqrt{33734}e^{17}$	$(\frac{113}{591}, -\frac{18}{197}, -\frac{221}{591}, \frac{83}{591}, \frac{59}{591}, -\frac{36}{197}, \frac{172}{591}, \frac{5}{591}, \frac{95}{197})$ $-\frac{4}{591}\sqrt{21209}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38}
9531:79	$0, 0, 0, 0, \frac{3}{584}\sqrt{14645}e^{12}, \frac{9}{584}\sqrt{1102}e^{13}, \frac{3}{584}\sqrt{4814}e^{15},$ $\frac{3}{584}\sqrt{14790}e^{16} + \frac{9}{292}\sqrt{406}e^{25}, \frac{3}{584}\sqrt{14645}e^{17}$	$(-\frac{87}{584}, \frac{159}{1168}, \frac{123}{292}, \frac{75}{584}, -\frac{15}{1168}, \frac{159}{584}, -\frac{189}{1168}, \frac{9}{73}, -\frac{363}{1168})$ $+\frac{3}{584}\sqrt{29522}e^2 \otimes e_9$	{1234678, 123678, 1345689, 135689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:79	$0, 0, 0, 0, \frac{28}{185}\sqrt{7}e^{12}, \frac{14}{37}\sqrt{2}e^{13}, \frac{14}{185}\sqrt{35}e^{15},$ $\frac{14}{185}\sqrt{41}e^{16} + \frac{14}{185}\sqrt{33}e^{25}, \frac{28}{185}\sqrt{3}e^{17}$	$(-\frac{21}{185}, \frac{14}{185}, \frac{49}{185}, \frac{21}{37}, -\frac{7}{185}, \frac{28}{185}, -\frac{28}{185}, \frac{7}{185}, -\frac{49}{185})$ $+\frac{14}{185}\sqrt{86}e^4 \otimes e_8 + \frac{56}{185}\sqrt{5}e^3 \otimes e_9$	{1469, 3568}
9531:79	$0, 0, 0, 0, \frac{2}{625}\sqrt{26562}e^{12}, \frac{4}{625}\sqrt{4427}e^{13}, \frac{26}{625}\sqrt{233}e^{15},$ $\frac{2}{625}\sqrt{21669}e^{16} + \frac{2}{625}\sqrt{11883}e^{25}, \frac{2}{625}\sqrt{26562}e^{17}$	$(\frac{59}{625}, \frac{46}{625}, \frac{33}{625}, -\frac{407}{625}, \frac{21}{125}, \frac{92}{625}, \frac{164}{625}, \frac{151}{625}, \frac{223}{625})$ $+\frac{4}{625}\sqrt{30057}e^1 \otimes e_4$	{1267, 1569, 23456789, 3468}
9531:79	$0, 0, 0, 0, \frac{10}{113}\sqrt{22}e^{12}, \frac{20}{113}\sqrt{5}e^{13}, \frac{10}{113}\sqrt{29}e^{15},$ $\frac{10}{113}\sqrt{13}e^{16} + \frac{10}{113}e^{25}, \frac{10}{113}\sqrt{22}e^{17}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{20}{113}, -\frac{5}{113}, \frac{35}{113})$ $+\frac{20}{113}\sqrt{17}e^1 \otimes e_3 + \frac{40}{113}\sqrt{2}e^4 \otimes e_8$	{1278, 1589, 234579, 34}
9531:79	$0, 0, 0, 0, \frac{1}{7}\sqrt{15}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}e^{15}, \frac{1}{7}\sqrt{15}e^{16} + \frac{4}{7}e^{25},$ $\frac{1}{7}\sqrt{15}e^{17}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7})$ $+\frac{1}{7}\sqrt{5}e^3 \otimes e_4 + \frac{4}{7}\sqrt{2}e^2 \otimes e_9$	{123678, 135689}
9531:79	$0, 0, 0, 0, \frac{10}{113}\sqrt{22}e^{12}, \frac{20}{113}\sqrt{5}e^{13}, \frac{10}{113}\sqrt{29}e^{15},$ $\frac{10}{113}\sqrt{13}e^{16} + \frac{10}{113}e^{25}, \frac{10}{113}\sqrt{22}e^{17}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{20}{113}, -\frac{5}{113}, \frac{35}{113})$ $-\frac{20}{113}\sqrt{17}e^1 \otimes e_3 + \frac{40}{113}\sqrt{2}e^4 \otimes e_8$	{1278, 1589, 234579, 34}
9531:79	$0, 0, 0, 0, \frac{2}{787}\sqrt{48070}e^{12}, \frac{8}{2361}\sqrt{59455}e^{13}, \frac{2}{2361}\sqrt{241615}e^{15},$ $\frac{2}{2361}\sqrt{46805}e^{16} + \frac{10}{2361}\sqrt{9361}e^{25}, \frac{2}{2361}\sqrt{6670}e^{17}$	$(-\frac{493}{2361}, \frac{186}{787}, \frac{1609}{2361}, \frac{401}{2361}, \frac{65}{2361}, \frac{372}{787}, -\frac{428}{2361}, \frac{623}{2361}, -\frac{307}{787})$ $+\frac{140}{2361}\sqrt{506}e^3 \otimes e_9$	{1469, 169, 34568, 3568}
9531:79	$0, 0, 0, 0, \frac{8}{145}\sqrt{73}e^{12}, \frac{2}{145}\sqrt{2190}e^{13}, \frac{2}{145}\sqrt{2555}e^{15},$ $\frac{2}{145}\sqrt{4161}e^{16} + \frac{2}{145}\sqrt{2993}e^{25}, \frac{8}{145}\sqrt{73}e^{17}$	$(\frac{3}{145}, -\frac{2}{145}, -\frac{7}{145}, 1, \frac{1}{145}, -\frac{4}{145}, \frac{4}{145}, -\frac{1}{145}, \frac{7}{145})$ $+\frac{2}{145}\sqrt{8906}e^4 \otimes e_8$	{1245679, 146, 23678, 35689}
9531:81	$0, 0, 0, 0, \frac{21}{1474}\sqrt{506}e^{12}, \frac{21}{1474}\sqrt{510}e^{13}, \frac{21}{1474}\sqrt{563}e^{25},$ $\frac{21}{1474}\sqrt{1218}e^{16} + \frac{21}{737}\sqrt{303}e^{24}, \frac{21}{1474}\sqrt{914}e^{27} + \frac{42}{737}\sqrt{57}e^{34}$	$(\frac{357}{1474}, -\frac{147}{1474}, -\frac{945}{2948}, \frac{777}{2948}, \frac{105}{737}, -\frac{21}{268}, \frac{63}{1474}, \frac{483}{2948}, -\frac{42}{737})$ $+\frac{21}{1474}\sqrt{2471}e^1 \otimes e_9$	{123478, 1267}
9531:82	$0, 0, 0, 0, \frac{96}{3127}\sqrt{38}e^{12}, \frac{24}{3127}\sqrt{1426}e^{13}, \frac{72}{3127}\sqrt{15}e^{15},$ $\frac{48}{3127}\sqrt{359}e^{14} + \frac{936}{3127}e^{36}, \frac{24}{3127}\sqrt{758}e^{17} + \frac{24}{3127}\sqrt{1471}e^{24}$	$(\frac{120}{3127}, -\frac{468}{3127}, \frac{180}{3127}, \frac{360}{3127}, -\frac{348}{3127}, \frac{300}{3127}, -\frac{228}{3127}, \frac{480}{3127}, -\frac{108}{3127})$ $+\frac{48}{3127}\sqrt{683}e^3 \otimes e_9$	{2346, 4579}
9531:82	$0, 0, 0, 0, \frac{68}{3161}\sqrt{858}e^{12}, \frac{68}{3161}\sqrt{102}e^{13}, \frac{204}{3161}\sqrt{11}e^{15},$ $\frac{884}{3161}\sqrt{2}e^{14} + \frac{68}{3161}\sqrt{941}e^{36}, \frac{136}{3161}\sqrt{114}e^{17} + \frac{68}{3161}\sqrt{807}e^{24}$	$(-\frac{204}{3161}, \frac{1496}{3161}, -\frac{306}{3161}, -\frac{612}{3161}, \frac{1292}{3161}, -\frac{510}{3161}, \frac{1088}{3161}, -\frac{816}{3161}, \frac{884}{3161})$ $+\frac{408}{3161}\sqrt{73}e^2 \otimes e_8$	{3489, 4689}
9531:83	$0, 0, 0, 0, \frac{4}{13}\sqrt{21}e^{12}, \frac{2}{13}\sqrt{119}e^{13}, \frac{7}{13}\sqrt{6}e^{15},$ $\frac{2}{13}\sqrt{105}e^{16} + \frac{2}{13}\sqrt{91}e^{34}, \frac{6}{13}\sqrt{7}e^{17} + \frac{3}{13}\sqrt{42}e^{24}$	$(0, -\frac{2}{13}, \frac{5}{13}, 0, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13})$ $+\frac{2}{13}\sqrt{42}e^3 \otimes e_9$	{234678, 459}
9531:83	$0, 0, 0, 0, \frac{6}{13}\sqrt{7}e^{12}, \frac{2}{13}\sqrt{105}e^{13}, \frac{7}{13}\sqrt{6}e^{15},$ $\frac{2}{13}\sqrt{119}e^{16} + \frac{6}{13}\sqrt{91}e^{34}, \frac{4}{13}\sqrt{21}e^{17} + \frac{3}{13}\sqrt{42}e^{24}$	$(0, \frac{4}{13}, -\frac{3}{13}, 0, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13})$ $+\frac{2}{13}\sqrt{42}e^2 \otimes e_8$	{247, 345689}
9531:84	$0, 0, 0, 0, \frac{58}{6819}\sqrt{933}e^{12}, \frac{58}{6819}\sqrt{195}e^{13}, \frac{29}{6819}\sqrt{4546}e^{25},$ $\frac{58}{6819}\sqrt{777}e^{16} + \frac{58}{2273}\sqrt{149}e^{34}, \frac{29}{6819}\sqrt{4782}e^{14} + \frac{116}{2273}\sqrt{34}e^{27}$	$(\frac{116}{2273}, \frac{232}{6819}, -\frac{435}{2273}, \frac{232}{2273}, \frac{580}{6819}, -\frac{319}{2273}, \frac{812}{6819}, -\frac{203}{2273}, \frac{348}{2273})$ $+\frac{1044}{2273}e^2 \otimes e_8$	{145789, 468}
9531:84	$0, 0, 0, 0, \frac{68}{279}\sqrt{5}e^{12}, \frac{17}{837}\sqrt{1030}e^{13}, \frac{17}{837}\sqrt{190}e^{25},$ $\frac{34}{837}\sqrt{26}e^{16} + \frac{17}{837}\sqrt{618}e^{34}, \frac{34}{279}\sqrt{10}e^{14} + \frac{34}{837}\sqrt{309}e^{27}$	$(-\frac{17}{279}, -\frac{34}{837}, \frac{425}{837}, -\frac{34}{279}, -\frac{85}{837}, \frac{374}{837}, -\frac{119}{837}, \frac{323}{837}, -\frac{17}{93})$ $+\frac{17}{837}\sqrt{2778}e^3 \otimes e_9$	{12569, 23678}
9531:85	$0, 0, 0, 0, \frac{92}{1215}\sqrt{17}e^{12}, \frac{92}{3645}\sqrt{277}e^{13}, \frac{92}{3645}\sqrt{141}e^{25},$ $\frac{46}{3645}\sqrt{1137}e^{24} + \frac{46}{3645}\sqrt{1594}e^{36}, \frac{46}{3645}\sqrt{933}e^{14} + \frac{46}{3645}\sqrt{1487}e^{27}$	$(-\frac{874}{3645}, \frac{253}{3645}, \frac{943}{3645}, \frac{253}{1215}, -\frac{23}{135}, \frac{23}{1215}, -\frac{368}{3645}, \frac{1012}{3645}, -\frac{23}{729})$ $+\frac{46}{3645}\sqrt{3090}e^3 \otimes e_9$	{2367, 4579}
9531:86	$0, 0, 0, 0, \frac{42}{1843}\sqrt{47}e^{12}, \frac{84}{1843}\sqrt{85}e^{13}, \frac{42}{1843}\sqrt{178}e^{15}, \frac{42}{1843}\sqrt{290}e^{25},$ $\frac{42}{1843}\sqrt{103}e^{17} + \frac{21}{1843}\sqrt{1366}e^{36}$	$(\frac{168}{1843}, -\frac{294}{1843}, \frac{21}{1843}, \frac{651}{1843}, -\frac{126}{1843}, \frac{189}{1843}, \frac{42}{1843}, -\frac{420}{1843}, \frac{210}{1843})$ $+\frac{63}{1843}\sqrt{102}e^4 \otimes e_9 + \frac{84}{1843}\sqrt{149}e^3 \otimes e_8$	{123579, 2478}
9531:86	$0, 0, 0, 0, \frac{6}{737}\sqrt{5221}e^{12}, \frac{138}{737}\sqrt{3}e^{13}, \frac{6}{737}\sqrt{437}e^{15}, \frac{36}{737}\sqrt{161}e^{25},$ $\frac{30}{737}\sqrt{115}e^{17} + \frac{12}{737}\sqrt{1173}e^{36}$	$(-\frac{138}{737}, \frac{258}{737}, -\frac{9}{737}, \frac{126}{737}, \frac{120}{737}, -\frac{147}{737}, -\frac{18}{737}, \frac{378}{737}, -\frac{156}{737})$ $+\frac{6}{737}\sqrt{14053}e^2 \otimes e_9$	{3479, 379, 4679, 679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:86	$0, 0, 0, 0, \frac{42}{2173}\sqrt{299}e^{12}, \frac{147}{2173}\sqrt{3}e^{13}, \frac{21}{2173}\sqrt{554}e^{15},$ $\frac{21}{2173}\sqrt{699}e^{25}, \frac{21}{2173}\sqrt{905}e^{17} + \frac{21}{2173}\sqrt{582}e^{36}$	$(-\frac{147}{2173}, \frac{378}{2173}, \frac{42}{2173}, -\frac{588}{2173}, \frac{231}{2173}, -\frac{105}{2173}, \frac{84}{2173}, \frac{609}{2173}, -\frac{63}{2173})$ $+ \frac{21}{2173}\sqrt{1695}e^4 \otimes e_4 + \frac{42}{2173}\sqrt{533}e^2 \otimes e_9$	{123678, 1278}
9531:86	$0, 0, 0, 0, \frac{12}{1715}\sqrt{710}e^{12}, \frac{3}{1715}\sqrt{127942}e^{13}, \frac{3}{1715}\sqrt{66598}e^{15},$ $\frac{12}{1715}\sqrt{6461}e^{25}, \frac{3}{1715}\sqrt{62338}e^{17} + \frac{6}{1715}\sqrt{25489}e^{36}$	$(\frac{309}{1715}, -\frac{426}{1715}, \frac{96}{1715}, \frac{222}{1715}, -\frac{117}{1715}, \frac{81}{1715}, \frac{192}{1715}, -\frac{543}{1715}, \frac{501}{1715})$ $+ \frac{3}{1715}\sqrt{212006}e^3 \otimes e_8$	{1234579, 123579, 2478, 278}
9531:86	$0, 0, 0, 0, \frac{2}{441}\sqrt{1473}e^{12}, \frac{2}{441}\sqrt{4910}e^{13}, \frac{2}{441}\sqrt{6874}e^{15}, \frac{2}{147}\sqrt{491}e^{25},$ $\frac{4}{441}\sqrt{7365}e^{17} + \frac{1}{441}\sqrt{105074}e^{36}$	$(-\frac{40}{441}, \frac{10}{63}, -\frac{5}{441}, 1, \frac{10}{147}, -\frac{5}{49}, -\frac{10}{441}, \frac{100}{441}, -\frac{50}{441})$ $+ \frac{1}{441}\sqrt{352538}e^4 \otimes e_9$	{13467, 147, 35789, 56789}
9531:86	$0, 0, 0, 0, \frac{99}{293}e^{12}, \frac{27}{293}\sqrt{3}e^{13}, \frac{9}{293}\sqrt{38}e^{15}, \frac{36}{293}\sqrt{13}e^{25},$ $\frac{9}{293}\sqrt{65}e^{17} + \frac{36}{293}\sqrt{7}e^{36}$	$(-\frac{27}{293}, \frac{36}{293}, -\frac{9}{293}, \frac{126}{293}, \frac{9}{293}, -\frac{36}{293}, -\frac{18}{293}, \frac{45}{293}, -\frac{45}{293})$ $+ \frac{9}{293}\sqrt{185}e^4 \otimes e_8 + \frac{9}{293}\sqrt{334}e^2 \otimes e_9$	{3479, 4679}
9531:86	$0, 0, 0, 0, \frac{36}{277}e^{12}, \frac{18}{277}\sqrt{55}e^{13}, \frac{9}{277}\sqrt{58}e^{15}, \frac{9}{277}\sqrt{158}e^{25},$ $\frac{72}{277}e^{17} + \frac{36}{277}\sqrt{10}e^{36}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{36}{277}, -\frac{9}{277}, \frac{63}{277}, \frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+ \frac{45}{277}\sqrt{14}e^3 \otimes e_8 + \frac{9}{277}\sqrt{138}e^1 \otimes e_4$	{156789, 3467}
9531:86	$0, 0, 0, 0, \frac{1}{57}\sqrt{2226}e^{12}, \frac{1}{57}\sqrt{106}e^{13}, \frac{1}{57}\sqrt{318}e^{15}, \frac{2}{57}\sqrt{530}e^{25},$ $\frac{1}{57}\sqrt{530}e^{17} + \frac{1}{57}\sqrt{530}e^{36}$	$(-\frac{2}{57}, \frac{16}{57}, \frac{2}{19}, -\frac{37}{57}, \frac{14}{57}, \frac{5}{7}, \frac{4}{19}, \frac{10}{57}, \frac{10}{57})$ $+ \frac{1}{57}\sqrt{4982}e^2 \otimes e_4$	{12368, 128, 2359, 2569}
9531:86	$0, 0, 0, 0, \frac{6}{161}\sqrt{65}e^{12}, \frac{3}{161}\sqrt{230}e^{13}, \frac{6}{161}\sqrt{35}e^{15}, \frac{6}{161}\sqrt{95}e^{25},$ $\frac{3}{161}\sqrt{10}e^{17} + \frac{18}{161}\sqrt{15}e^{36}$	$(-\frac{15}{161}, \frac{36}{161}, \frac{3}{161}, -\frac{6}{23}, \frac{3}{23}, -\frac{12}{161}, \frac{6}{161}, \frac{57}{161}, -\frac{9}{161})$ $+ \frac{27}{161}\sqrt{10}e^2 \otimes e_9 + \frac{3}{161}\sqrt{610}e^3 \otimes e_4$	{135789, 1456789}
9531:86	$0, 0, 0, 0, \frac{1}{97}\sqrt{854}e^{12}, \frac{1}{97}\sqrt{1830}e^{13}, \frac{4}{97}\sqrt{122}e^{15}, \frac{2}{97}\sqrt{2135}e^{25},$ $\frac{1}{97}\sqrt{122}e^{17} + \frac{2}{97}\sqrt{366}e^{36}$	$(\frac{15}{97}, -\frac{20}{97}, \frac{5}{97}, 1, -\frac{5}{97}, \frac{20}{97}, \frac{10}{97}, -\frac{25}{97}, \frac{25}{97})$ $+ \frac{1}{97}\sqrt{19154}e^4 \otimes e_8$	{12389, 12689, 23456, 245}
9531:86	$0, 0, 0, 0, \frac{6}{877}\sqrt{46}e^{12}, \frac{3}{877}\sqrt{442}e^{13}, \frac{3}{877}\sqrt{322}e^{15}, \frac{6}{877}\sqrt{173}e^{25},$ $\frac{3}{877}\sqrt{130}e^{17} + \frac{6}{877}\sqrt{157}e^{36}$	$(-\frac{3}{877}, -\frac{6}{877}, -\frac{6}{877}, \frac{84}{877}, -\frac{9}{877}, \frac{9}{877}, -\frac{12}{877}, \frac{15}{877}, -\frac{15}{877})$ $+ \frac{3}{877}\sqrt{890}e^3 \otimes e_8 + \frac{6}{877}\sqrt{174}e^2 \otimes e_9$	{1456789, 156789}
9531:86	$0, 0, 0, 0, \frac{4}{451}\sqrt{4589}e^{12}, \frac{2}{451}\sqrt{5295}e^{13}, \frac{2}{451}\sqrt{26122}e^{15}, \frac{1}{451}\sqrt{16238}e^{25},$ $\frac{1}{451}\sqrt{76954}e^{17} + \frac{2}{451}\sqrt{1765}e^{36}$	$(\frac{60}{451}, -\frac{2}{451}, \frac{59}{451}, -\frac{293}{451}, \frac{58}{451}, \frac{119}{451}, \frac{118}{451}, \frac{56}{451}, \frac{178}{451})$ $+ \frac{2}{451}\sqrt{65658}e^1 \otimes e_4$	{1237, 1267, 23456789, 245789}
9531:86	$0, 0, 0, 0, \frac{6}{737}\sqrt{385}e^{12}, \frac{30}{737}\sqrt{55}e^{13}, \frac{24}{737}\sqrt{55}e^{15}, \frac{3}{737}\sqrt{6578}e^{25},$ $\frac{3}{737}\sqrt{3454}e^{17} + \frac{6}{67}\sqrt{10}e^{36}$	$(\frac{6}{67}, -\frac{6}{67}, \frac{3}{67}, -\frac{15}{67}, 0, \frac{9}{67}, \frac{6}{67}, -\frac{6}{67}, \frac{12}{67})$ $+ \frac{18}{737}\sqrt{143}e^2 \otimes e_4 + \frac{6}{737}\sqrt{2387}e^3 \otimes e_8$	{1456789, 3467}
9531:86	$0, 0, 0, 0, \frac{6}{3421}\sqrt{13795}e^{12}, \frac{12}{3421}\sqrt{61535}e^{13}, \frac{6}{3421}\sqrt{71765}e^{15},$ $\frac{6}{3421}\sqrt{51305}e^{25}, \frac{6}{3421}\sqrt{122605}e^{17} + \frac{36}{3421}\sqrt{6045}e^{36}$	$(\frac{285}{3421}, \frac{288}{3421}, \frac{39}{311}, -\frac{2361}{3421}, \frac{573}{3421}, \frac{714}{3421}, \frac{78}{311}, \frac{861}{3421}, \frac{1143}{3421})$ $+ \frac{42}{3421}\sqrt{9145}e^3 \otimes e_4$	{123579, 1245679, 23678, 2478}
9531:87	$0, 0, 0, 0, \frac{1}{173}\sqrt{274}e^{12}, \frac{1}{173}\sqrt{11782}e^{13}, \frac{1}{173}\sqrt{1370}e^{25}, \frac{3}{173}\sqrt{1370}e^{15},$ $\frac{2}{173}\sqrt{685}e^{27} + \frac{1}{173}\sqrt{16714}e^{36}$	$(-\frac{57}{173}, \frac{46}{173}, \frac{69}{173}, \frac{30}{173}, -\frac{11}{173}, \frac{12}{173}, \frac{35}{173}, -\frac{68}{173}, \frac{81}{173})$ $+ \frac{1}{173}\sqrt{39182}e^3 \otimes e_8$	{1234579, 123579, 2346, 236}
9531:87	$0, 0, 0, 0, \frac{13}{717}\sqrt{206}e^{12}, \frac{13}{239}\sqrt{30}e^{13}, \frac{13}{239}\sqrt{10}e^{25}, \frac{13}{717}\sqrt{418}e^{15},$ $\frac{26}{717}\sqrt{31}e^{27} + \frac{13}{717}\sqrt{314}e^{36}$	$(-\frac{65}{717}, \frac{26}{239}, \frac{39}{239}, -\frac{78}{239}, \frac{13}{717}, \frac{52}{717}, \frac{91}{717}, -\frac{52}{717}, \frac{169}{717})$ $+ \frac{13}{717}\sqrt{670}e^3 \otimes e_8 + \frac{26}{717}\sqrt{154}e^1 \otimes e_4$	{1359, 3467}
9531:87	$0, 0, 0, 0, \frac{1}{173}\sqrt{11782}e^{12}, \frac{1}{173}\sqrt{274}e^{13}, \frac{1}{173}\sqrt{16714}e^{25}, \frac{2}{173}\sqrt{685}e^{15},$ $\frac{3}{173}\sqrt{1370}e^{27} + \frac{1}{173}\sqrt{1370}e^{36}$	$(-\frac{2}{173}, \frac{24}{173}, \frac{36}{173}, -\frac{113}{173}, \frac{22}{173}, \frac{34}{173}, \frac{46}{173}, \frac{20}{173}, \frac{70}{173})$ $+ \frac{1}{173}\sqrt{39182}e^2 \otimes e_4$	{13456789, 145789, 348, 468}
9531:87	$0, 0, 0, 0, \frac{2}{95}\sqrt{51}e^{12}, \frac{2}{95}\sqrt{510}e^{13}, \frac{2}{95}\sqrt{170}e^{25}, \frac{1}{95}\sqrt{4930}e^{15},$ $\frac{1}{95}\sqrt{1190}e^{27} + \frac{4}{95}\sqrt{85}e^{36}$	$(\frac{24}{95}, -\frac{2}{95}, -\frac{3}{95}, -\frac{61}{95}, \frac{22}{95}, \frac{21}{95}, \frac{4}{19}, \frac{46}{95}, \frac{18}{95})$ $+ \frac{2}{95}\sqrt{3315}e^1 \otimes e_4$	{1359, 1569, 3467, 47}
9531:87	$0, 0, 0, 0, \frac{2}{67}\sqrt{251}e^{12}, \frac{2}{201}\sqrt{2510}e^{13}, \frac{2}{201}\sqrt{1757}e^{25}, \frac{1}{603}\sqrt{353910}e^{15},$ $\frac{1}{603}\sqrt{10542}e^{27} + \frac{2}{603}\sqrt{12801}e^{36}$	$(-\frac{40}{201}, \frac{10}{67}, \frac{15}{67}, 1, -\frac{10}{201}, \frac{5}{201}, \frac{20}{201}, -\frac{50}{201}, \frac{50}{201})$ $+ \frac{2}{603}\sqrt{185991}e^4 \otimes e_8$	{13456, 145, 3479, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:87	$0, 0, 0, 0, \frac{10}{51}\sqrt{3}e^{12}, \frac{10}{51}\sqrt{3}e^{13}, \frac{20}{51}e^{25}, \frac{5}{51}\sqrt{10}e^{15},$ $\frac{5}{51}\sqrt{10}e^{27} + \frac{20}{51}e^{36}$	$(-\frac{10}{51}, \frac{10}{51}, \frac{5}{17}, -\frac{5}{17}, 0, \frac{5}{51}, \frac{10}{51}, -\frac{10}{51}, \frac{20}{51})$ $+\frac{10}{51}\sqrt{11}e^2 \otimes e_4 + \frac{10}{51}\sqrt{11}e^3 \otimes e_8$	{134579, 346}
9531:87	$0, 0, 0, 0, \frac{16}{339}\sqrt{15}e^{12}, \frac{8}{339}\sqrt{230}e^{13}, \frac{8}{113}\sqrt{2}e^{25}, \frac{8}{339}\sqrt{209}e^{15},$ $\frac{8}{339}\sqrt{105}e^{27} + \frac{8}{339}\sqrt{417}e^{36}$	$(-\frac{56}{339}, \frac{32}{339}, \frac{16}{113}, \frac{56}{113}, -\frac{8}{113}, -\frac{8}{339}, \frac{8}{339}, -\frac{80}{339}, \frac{40}{339})$ $+\frac{16}{113}\sqrt{19}e^3 \otimes e_8 + \frac{8}{339}\sqrt{517}e^4 \otimes e_9$	{16789, 458}
9531:87	$0, 0, 0, 0, \frac{2}{3721}\sqrt{376023}e^{12}, \frac{24}{3721}\sqrt{17170}e^{13}, \frac{68}{3721}\sqrt{505}e^{25},$ $\frac{4}{3721}\sqrt{163115}e^{15}, \frac{2}{3721}\sqrt{245531}e^{27} + \frac{4}{3721}\sqrt{552874}e^{36}$	$(-\frac{201}{3721}, \frac{662}{3721}, \frac{993}{3721}, -\frac{2441}{3721}, \frac{461}{3721}, \frac{792}{3721}, \frac{1123}{3721}, \frac{260}{3721}, \frac{1785}{3721})$ $+\frac{2}{3721}\sqrt{5290077}e^3 \otimes e_4$	{139, 1469, 3567, 457}
9531:87	$0, 0, 0, 0, \frac{4}{237}\sqrt{393}e^{12}, \frac{1}{237}\sqrt{9170}e^{13}, \frac{1}{79}\sqrt{786}e^{25}, \frac{1}{237}\sqrt{2489}e^{15},$ $\frac{1}{237}\sqrt{33405}e^{27} + \frac{1}{237}\sqrt{30261}e^{36}$	$(\frac{35}{237}, -\frac{20}{237}, -\frac{10}{79}, 1, \frac{5}{79}, \frac{5}{237}, -\frac{5}{237}, \frac{50}{237}, -\frac{25}{237})$ $+\frac{1}{237}\sqrt{100477}e^4 \otimes e_9$	{12359, 12569, 23467, 247}
9531:88	$0, 0, 0, 0, \frac{76}{1549}\sqrt{2}e^{12}, \frac{38}{1549}\sqrt{195}e^{13}, \frac{19}{1549}\sqrt{102}e^{15}, \frac{76}{1549}\sqrt{41}e^{36},$ $\frac{76}{1549}\sqrt{39}e^{17} + \frac{57}{1549}\sqrt{46}e^{25}$	$(-\frac{19}{1549}, -\frac{38}{1549}, \frac{266}{1549}, -\frac{380}{1549}, -\frac{57}{1549}, \frac{247}{1549}, -\frac{76}{1549}, \frac{513}{1549}, -\frac{95}{1549})$ $+\frac{19}{1549}\sqrt{1130}e^1 \otimes e_4 + \frac{19}{1549}\sqrt{1598}e^3 \otimes e_9$	{15689, 346}
9531:88	$0, 0, 0, 0, \frac{25}{849}\sqrt{366}e^{12}, \frac{2}{849}\sqrt{7930}e^{13}, \frac{2}{849}\sqrt{98515}e^{15}, \frac{1}{849}\sqrt{59170}e^{36},$ $\frac{1}{849}\sqrt{317810}e^{17} + \frac{2}{849}\sqrt{44530}e^{25}$	$(\frac{52}{849}, \frac{104}{849}, \frac{71}{849}, -\frac{186}{283}, \frac{52}{283}, \frac{41}{283}, \frac{208}{849}, \frac{194}{849}, \frac{260}{849})$ $+\frac{1}{849}\sqrt{858270}e^1 \otimes e_4$	{12378, 12678, 2345679, 24579}
9531:88	$0, 0, 0, 0, \frac{1}{31}\sqrt{118}e^{12}, \frac{1}{93}\sqrt{590}e^{13}, \frac{4}{93}\sqrt{59}e^{15}, \frac{2}{93}\sqrt{1829}e^{36},$ $\frac{1}{93}\sqrt{590}e^{17} + \frac{4}{93}\sqrt{59}e^{25}$	$(\frac{5}{93}, \frac{10}{93}, -\frac{5}{31}, 1, \frac{5}{31}, -\frac{10}{93}, \frac{20}{93}, -\frac{25}{93}, \frac{25}{93})$ $+\frac{1}{93}\sqrt{17582}e^4 \otimes e_8$	{13589, 15689, 346, 4}
9531:88	$0, 0, 0, 0, \frac{24}{989}\sqrt{254}e^{12}, \frac{48}{989}\sqrt{3}e^{13}, \frac{24}{989}\sqrt{97}e^{15}, \frac{12}{989}\sqrt{922}e^{36},$ $\frac{12}{989}\sqrt{330}e^{17} + \frac{12}{989}\sqrt{1558}e^{25}$	$(\frac{24}{989}, \frac{48}{989}, -\frac{132}{989}, \frac{408}{989}, \frac{72}{989}, -\frac{108}{989}, \frac{96}{989}, -\frac{240}{989}, \frac{120}{989})$ $+\frac{12}{989}\sqrt{1190}e^4 \otimes e_9 + \frac{24}{989}\sqrt{581}e^2 \otimes e_8$	{135789, 156789}
9531:88	$0, 0, 0, 0, \frac{1}{137}\sqrt{922}e^{12}, \frac{1}{411}\sqrt{4610}e^{13}, \frac{4}{411}\sqrt{461}e^{15}, \frac{5}{411}\sqrt{922}e^{36},$ $\frac{1}{411}\sqrt{98654}e^{17} + \frac{4}{411}\sqrt{5993}e^{25}$	$(-\frac{10}{411}, -\frac{20}{411}, \frac{55}{411}, 1, -\frac{10}{137}, \frac{15}{137}, -\frac{40}{411}, \frac{100}{411}, -\frac{50}{411})$ $+\frac{4}{411}\sqrt{19362}e^4 \otimes e_9$	{1234567, 12457, 23789, 26789}
9531:88	$0, 0, 0, 0, \frac{1}{877}\sqrt{2046}e^{12}, \frac{2}{877}\sqrt{897}e^{13}, \frac{3}{877}\sqrt{322}e^{15}, \frac{1}{877}\sqrt{5262}e^{36},$ $\frac{3}{877}\sqrt{130}e^{17} + \frac{1}{877}\sqrt{6618}e^{25}$	$(-\frac{3}{877}, -\frac{6}{877}, -\frac{6}{877}, \frac{84}{877}, -\frac{9}{877}, -\frac{9}{877}, -\frac{12}{877}, -\frac{15}{877}, -\frac{15}{877})$ $+\frac{1}{877}\sqrt{7230}e^3 \otimes e_9 + \frac{2}{877}\sqrt{1761}e^2 \otimes e_8$	{1456789, 156789}
9531:88	$0, 0, 0, 0, \frac{26}{223}\sqrt{30}e^{12}, \frac{52}{669}\sqrt{6}e^{13}, \frac{130}{669}\sqrt{3}e^{15}, \frac{26}{669}\sqrt{223}e^{36},$ $\frac{26}{669}\sqrt{165}e^{17} + \frac{26}{669}\sqrt{303}e^{25}$	$(\frac{16}{223}, \frac{32}{223}, -\frac{145}{669}, \frac{34}{223}, \frac{48}{223}, -\frac{97}{669}, \frac{64}{223}, -\frac{242}{669}, \frac{80}{223})$ $+\frac{78}{223}\sqrt{7}e^2 \otimes e_8$	{1345789, 135789, 1456789, 156789}
9531:88	$0, 0, 0, 0, \frac{1}{1677}\sqrt{36938}e^{12}, \frac{5}{559}\sqrt{4818}e^{13}, \frac{2}{559}\sqrt{15257}e^{15},$ $\frac{1}{1677}\sqrt{897754}e^{36}, \frac{1}{1677}\sqrt{322806}e^{17} + \frac{2}{1677}\sqrt{243309}e^{25}$	$(-\frac{24}{559}, -\frac{48}{559}, \frac{443}{1677}, \frac{85}{559}, -\frac{72}{559}, \frac{371}{1677}, -\frac{96}{559}, \frac{814}{1677}, -\frac{120}{559})$ $+\frac{2}{559}\sqrt{63437}e^3 \otimes e_9$	{1234578, 123578, 2479, 279}
9531:88	$0, 0, 0, 0, \frac{1}{1617}\sqrt{1748586}e^{12}, \frac{1}{1617}\sqrt{158474}e^{13}, \frac{2}{1617}\sqrt{119527}e^{15},$ $\frac{1}{1617}\sqrt{790}e^{36}, \frac{79}{1617}\sqrt{170}e^{17} + \frac{2}{1617}\sqrt{490195}e^{25}$	$(\frac{118}{1617}, \frac{236}{1617}, \frac{37}{539}, -\frac{369}{539}, \frac{118}{539}, \frac{229}{539}, \frac{472}{1617}, \frac{340}{1617}, \frac{590}{1617})$ $+\frac{2}{1617}\sqrt{914583}e^2 \otimes e_4$	{1345789, 1456789, 3467, 47}
9531:88	$0, 0, 0, 0, \frac{1}{69}\sqrt{390}e^{12}, \frac{2}{69}\sqrt{91}e^{13}, \frac{2}{69}\sqrt{65}e^{15}, \frac{1}{69}\sqrt{598}e^{36},$ $\frac{1}{69}\sqrt{390}e^{17} + \frac{1}{69}\sqrt{598}e^{25}$	$(\frac{1}{23}, \frac{2}{23}, -\frac{5}{69}, -\frac{6}{23}, \frac{3}{23}, -\frac{2}{69}, \frac{4}{23}, -\frac{7}{69}, \frac{5}{23})$ $+\frac{1}{69}\sqrt{962}e^2 \otimes e_8 + \frac{5}{69}\sqrt{26}e^3 \otimes e_4$	{135789, 1456789}
9531:88	$0, 0, 0, 0, \frac{6}{1091}\sqrt{2938}e^{12}, \frac{10}{3273}\sqrt{83733}e^{13}, \frac{2}{3273}\sqrt{656643}e^{15},$ $\frac{2}{3273}\sqrt{1602679}e^{36}, \frac{2}{3273}\sqrt{577317}e^{17} + \frac{2}{3273}\sqrt{678678}e^{25}$	$(\frac{41}{1091}, \frac{82}{1091}, \frac{757}{3273}, -\frac{727}{1091}, \frac{123}{1091}, \frac{880}{3273}, \frac{164}{1091}, \frac{1637}{3273}, \frac{205}{1091})$ $+\frac{2}{1091}\sqrt{445107}e^3 \otimes e_4$	{138, 1468, 3569, 459}
9531:88	$0, 0, 0, 0, \frac{4}{131}\sqrt{46}e^{12}, \frac{20}{131}\sqrt{6}e^{13}, \frac{8}{131}\sqrt{19}e^{15}, \frac{8}{393}\sqrt{393}e^{36},$ $\frac{4}{393}\sqrt{402}e^{17} + \frac{8}{393}\sqrt{303}e^{25}$	$(-\frac{4}{131}, -\frac{8}{131}, \frac{12}{131}, \frac{52}{131}, -\frac{12}{131}, \frac{8}{131}, -\frac{16}{131}, \frac{20}{131}, -\frac{20}{131})$ $+\frac{4}{393}\sqrt{1362}e^4 \otimes e_8 + \frac{8}{131}\sqrt{79}e^3 \otimes e_9$	{123578, 2479}
9531:88	$0, 0, 0, 0, \frac{39}{6775}\sqrt{1054}e^{12}, \frac{39}{6775}\sqrt{3566}e^{13}, \frac{156}{6775}\sqrt{159}e^{15},$ $\frac{39}{6775}\sqrt{2914}e^{36}, \frac{39}{6775}\sqrt{466}e^{17} + \frac{156}{6775}\sqrt{345}e^{25}$	$(-\frac{78}{6775}, -\frac{156}{6775}, \frac{1131}{6775}, -\frac{1677}{6775}, -\frac{234}{6775}, \frac{1053}{6775}, -\frac{312}{6775}, \frac{2184}{6775}, -\frac{78}{1355})$ $+\frac{78}{6775}\sqrt{1202}e^2 \otimes e_4 + \frac{78}{6775}\sqrt{1822}e^3 \otimes e_9$	{1456789, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:88	$0, 0, 0, 0, \frac{15}{34}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{1}{17}\sqrt{15}e^{15}, \frac{1}{34}\sqrt{145}e^{36},$ $\frac{1}{34}\sqrt{15}e^{17} + \frac{1}{34}\sqrt{130}e^{25}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{5}{17})$ $+ \frac{5}{34}\sqrt{14}e^2 \otimes e_8 + \frac{7}{34}\sqrt{5}e^1 \otimes e_4$	{234567, 2457}
9531:89	$0, 0, 0, 0, \frac{10}{389}\sqrt{299}e^{12}, \frac{2}{1167}\sqrt{130065}e^{13}, \frac{4}{389}\sqrt{299}e^{25},$ $\frac{2}{1167}\sqrt{116311}e^{36}, \frac{2}{1167}\sqrt{26013}e^{15} + \frac{2}{1167}\sqrt{130065}e^{27}$	$(-\frac{34}{389}, -\frac{17}{389}, \frac{343}{1167}, \frac{65}{389}, -\frac{51}{389}, \frac{241}{1167}, -\frac{68}{389}, \frac{584}{1167}, -\frac{85}{389})$ $+ \frac{12}{389}\sqrt{897}e^3 \otimes e_9$	{23467, 2367, 4579, 579}
9531:89	$0, 0, 0, 0, \frac{4}{119}\sqrt{139}e^{12}, \frac{1}{357}\sqrt{5838}e^{13}, \frac{4}{119}\sqrt{278}e^{25}, \frac{1}{357}\sqrt{33082}e^{36},$ $\frac{5}{357}\sqrt{834}e^{15} + \frac{4}{357}\sqrt{2085}e^{27}$	$(\frac{2}{17}, \frac{1}{17}, -\frac{80}{357}, \frac{20}{119}, \frac{3}{17}, -\frac{38}{357}, \frac{4}{17}, -\frac{118}{357}, \frac{5}{17})$ $+ \frac{1}{119}\sqrt{9174}e^2 \otimes e_8$	{1345789, 135789, 1456789, 156789}
9531:89	$0, 0, 0, 0, \frac{38}{2741}\sqrt{723}e^{12}, \frac{76}{2741}\sqrt{38}e^{13}, \frac{38}{2741}\sqrt{661}e^{25},$ $\frac{76}{2741}\sqrt{163}e^{36}, \frac{114}{2741}\sqrt{3}e^{15} + \frac{76}{2741}\sqrt{105}e^{27}$	$(\frac{304}{2741}, \frac{152}{2741}, -\frac{437}{2741}, -\frac{418}{2741}, \frac{456}{2741}, -\frac{133}{2741}, \frac{608}{2741}, -\frac{570}{2741}, \frac{760}{2741})$ $+ \frac{38}{2741}\sqrt{1589}e^2 \otimes e_8 + \frac{38}{2741}\sqrt{785}e^1 \otimes e_4$	{135789, 156789}
9531:89	$0, 0, 0, 0, \frac{44}{2621}e^{12}, \frac{253}{7863}\sqrt{6}e^{13}, \frac{154}{2621}\sqrt{2}e^{25}, \frac{11}{7863}\sqrt{5242}e^{36},$ $\frac{11}{7863}\sqrt{1338}e^{15} + \frac{22}{7863}\sqrt{1410}e^{27}$	$(-\frac{22}{2621}, -\frac{11}{2621}, -\frac{44}{7863}, \frac{308}{2621}, -\frac{33}{2621}, -\frac{110}{7863}, -\frac{44}{2621}, -\frac{154}{7863}, -\frac{55}{2621})$ $+ \frac{11}{2621}\sqrt{822}e^2 \otimes e_8 + \frac{132}{2621}\sqrt{5}e^3 \otimes e_9$	{1456789, 156789}
9531:89	$0, 0, 0, 0, \frac{4}{1647}\sqrt{105690}e^{12}, \frac{2}{1647}\sqrt{79945}e^{13}, \frac{5}{549}\sqrt{1626}e^{25},$ $\frac{4}{1647}\sqrt{14905}e^{36}, \frac{1}{1647}\sqrt{1812990}e^{15} + \frac{7}{1647}\sqrt{18970}e^{27}$	$(\frac{236}{1647}, \frac{118}{1647}, \frac{58}{1647}, \frac{373}{549}, \frac{118}{549}, \frac{98}{549}, \frac{472}{1647}, \frac{352}{1647}, \frac{590}{1647})$ $+ \frac{1}{1647}\sqrt{3747930}e^1 \otimes e_4$	{2345679, 24579, 3467, 47}
9531:89	$0, 0, 0, 0, \frac{10}{837}\sqrt{102}e^{12}, \frac{20}{837}\sqrt{197}e^{13}, \frac{40}{837}\sqrt{39}e^{25}, \frac{10}{837}\sqrt{694}e^{36},$ $\frac{20}{279}\sqrt{5}e^{15} + \frac{110}{837}\sqrt{10}e^{27}$	$(-\frac{20}{837}, -\frac{10}{837}, \frac{50}{279}, -\frac{70}{279}, -\frac{10}{279}, \frac{130}{837}, -\frac{40}{837}, \frac{280}{837}, -\frac{50}{837})$ $+ \frac{10}{837}\sqrt{1266}e^2 \otimes e_4 + \frac{20}{279}\sqrt{46}e^3 \otimes e_9$	{125689, 1348}
9531:89	$0, 0, 0, 0, \frac{2}{189}\sqrt{717}e^{12}, \frac{2}{189}\sqrt{1195}e^{13}, \frac{2}{189}\sqrt{1434}e^{25}, \frac{1}{63}\sqrt{3346}e^{36},$ $\frac{2}{189}\sqrt{239}e^{15} + \frac{2}{189}\sqrt{1195}e^{27}$	$(\frac{20}{189}, \frac{10}{189}, -\frac{5}{27}, 1, \frac{10}{63}, -\frac{5}{63}, \frac{40}{189}, -\frac{50}{189}, \frac{50}{189})$ $+ \frac{1}{189}\sqrt{72178}e^4 \otimes e_8$	{234569, 2459, 346, 4}
9531:89	$0, 0, 0, 0, \frac{82}{2433}\sqrt{15}e^{12}, \frac{779}{7299}\sqrt{10}e^{13}, \frac{82}{7299}\sqrt{129}e^{25},$ $\frac{82}{7299}\sqrt{769}e^{36}, \frac{82}{7299}\sqrt{807}e^{15} + \frac{82}{7299}\sqrt{455}e^{27}$	$(-\frac{164}{7299}, -\frac{82}{7299}, \frac{1271}{7299}, \frac{205}{811}, -\frac{82}{2433}, \frac{123}{811}, -\frac{328}{7299}, \frac{2378}{7299}, -\frac{410}{7299})$ $+ \frac{41}{7299}\sqrt{5370}e^1 \otimes e_4 + \frac{82}{7299}\sqrt{1887}e^3 \otimes e_9$	{12689, 1358}
9531:89	$0, 0, 0, 0, \frac{2}{3417}\sqrt{81455}e^{12}, \frac{2}{3417}\sqrt{2243715}e^{13}, \frac{2}{1139}\sqrt{68126}e^{25},$ $\frac{2}{3417}\sqrt{1686859}e^{36}, \frac{2}{3417}\sqrt{937473}e^{15} + \frac{2}{3417}\sqrt{857499}e^{27}$	$(\frac{74}{1139}, \frac{37}{1139}, \frac{763}{3417}, -\frac{733}{1139}, \frac{111}{1139}, \frac{985}{3417}, \frac{148}{1139}, \frac{1748}{3417}, \frac{185}{1139})$ $+ \frac{4}{1139}\sqrt{115518}e^3 \otimes e_4$	{123589, 1245689, 138, 1468}
9531:89	$0, 0, 0, 0, \frac{1}{216}\sqrt{13398}e^{12}, \frac{1}{108}\sqrt{1001}e^{13}, \frac{1}{108}\sqrt{6699}e^{25}, \frac{5}{216}\sqrt{154}e^{36},$ $\frac{1}{36}\sqrt{385}e^{15} + \frac{1}{216}\sqrt{22330}e^{27}$	$(\frac{13}{108}, \frac{13}{216}, \frac{1}{18}, -\frac{47}{72}, \frac{13}{72}, \frac{19}{108}, \frac{13}{54}, \frac{25}{108}, \frac{65}{216})$ $+ \frac{7}{216}\sqrt{1122}e^2 \otimes e_4$	{12378, 12678, 1345789, 1456789}
9531:89	$0, 0, 0, 0, \frac{22}{933}\sqrt{30}e^{12}, \frac{22}{933}\sqrt{94}e^{13}, \frac{55}{933}\sqrt{22}e^{25}, \frac{11}{933}\sqrt{622}e^{36},$ $\frac{22}{933}\sqrt{101}e^{15} + \frac{11}{933}\sqrt{510}e^{27}$	$(\frac{22}{311}, \frac{11}{311}, -\frac{77}{933}, -\frac{66}{311}, \frac{33}{311}, -\frac{11}{933}, \frac{44}{311}, -\frac{88}{933}, \frac{55}{311})$ $+ \frac{11}{933}\sqrt{1022}e^2 \otimes e_8 + \frac{22}{933}\sqrt{155}e^3 \otimes e_4$	{135789, 1456789}
9531:89	$0, 0, 0, 0, \frac{4}{207}\sqrt{87}e^{12}, \frac{4}{207}\sqrt{145}e^{13}, \frac{4}{207}\sqrt{174}e^{25}, \frac{10}{207}\sqrt{58}e^{36},$ $\frac{2}{207}\sqrt{6438}e^{15} + \frac{2}{207}\sqrt{5974}e^{27}$	$(-\frac{10}{207}, -\frac{5}{207}, \frac{10}{69}, 1, -\frac{5}{69}, \frac{20}{207}, -\frac{20}{207}, \frac{50}{207}, -\frac{25}{207})$ $+ \frac{2}{207}\sqrt{19662}e^4 \otimes e_9$	{1234567, 12457, 13679, 179}
9531:89	$0, 0, 0, 0, \frac{170}{1107}\sqrt{3}e^{12}, \frac{34}{1107}\sqrt{145}e^{13}, \frac{68}{1107}\sqrt{3}e^{25}, \frac{17}{369}\sqrt{82}e^{36},$ $\frac{34}{1107}\sqrt{29}e^{15} + \frac{34}{1107}\sqrt{145}e^{27}$	$(-\frac{68}{1107}, -\frac{34}{1107}, \frac{119}{1107}, \frac{17}{41}, -\frac{34}{369}, \frac{17}{369}, -\frac{136}{1107}, \frac{170}{1107}, -\frac{170}{1107})$ $+ \frac{17}{1107}\sqrt{658}e^4 \otimes e_8 + \frac{68}{123}e^3 \otimes e_9$	{23467, 4579}
9531:89	$0, 0, 0, 0, \frac{88}{463}\sqrt{2}e^{12}, \frac{11}{463}\sqrt{22}e^{13}, \frac{176}{463}e^{25}, \frac{22}{463}\sqrt{58}e^{36},$ $\frac{66}{463}\sqrt{2}e^{15} + \frac{11}{463}\sqrt{290}e^{27}$	$(\frac{22}{463}, \frac{11}{463}, -\frac{66}{463}, \frac{176}{463}, \frac{33}{463}, -\frac{44}{463}, \frac{44}{463}, -\frac{110}{463}, \frac{55}{463})$ $+ \frac{11}{463}\sqrt{230}e^4 \otimes e_9 + \frac{11}{463}\sqrt{574}e^2 \otimes e_8$	{135789, 156789}
9531:90	$0, 0, 0, 0, \frac{2}{271}\sqrt{159}e^{12}, \frac{6}{271}\sqrt{33}e^{13}, \frac{4}{271}\sqrt{51}e^{15},$ $\frac{3}{271}\sqrt{122}e^{16} + \frac{1}{271}\sqrt{1002}e^{23}, \frac{1}{271}\sqrt{1002}e^{17} + \frac{3}{271}\sqrt{30}e^{34}$	$(-\frac{1}{271}, -\frac{2}{271}, \frac{13}{271}, -\frac{18}{271}, -\frac{3}{271}, \frac{12}{271}, \frac{11}{271}, -\frac{5}{271})$ $+ \frac{2}{271}\sqrt{366}e^2 \otimes e_9$	{135689, 1459}
9531:90	$0, 0, 0, 0, \frac{26}{205}\sqrt{6}e^{12}, \frac{26}{205}\sqrt{2}e^{13}, \frac{26}{205}\sqrt{10}e^{15},$ $\frac{13}{205}\sqrt{174}e^{16} + \frac{13}{205}\sqrt{34}e^{23}, \frac{13}{205}\sqrt{82}e^{17} + \frac{13}{41}\sqrt{6}e^{34}$	$(\frac{13}{205}, \frac{26}{205}, -\frac{13}{41}, \frac{26}{41}, \frac{39}{205}, -\frac{52}{205}, \frac{52}{205}, -\frac{39}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^4 \otimes e_8$	{35689, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:91	$0, 0, 0, 0, \frac{4}{239}\sqrt{15}e^{12}, \frac{20}{239}\sqrt{3}e^{13}, \frac{2}{239}\sqrt{177}e^{25},$ $\frac{12}{239}\sqrt{10}e^{16} + \frac{6}{239}\sqrt{47}e^{23}, \frac{20}{239}\sqrt{3}e^{27} + \frac{12}{239}\sqrt{5}e^{34}$	$(-\frac{1}{239}, -\frac{2}{239}, \frac{17}{239}, -\frac{24}{239}, -\frac{3}{239}, \frac{16}{239}, -\frac{5}{239}, \frac{15}{239}, -\frac{7}{239})$ $+ \frac{2}{239}\sqrt{609}e^1 \otimes e_9$	{123478, 1267, 235689, 2459}
9531:91	$0, 0, 0, 0, \frac{4}{239}\sqrt{15}e^{12}, \frac{20}{239}\sqrt{3}e^{13}, \frac{2}{239}\sqrt{177}e^{25},$ $\frac{12}{239}\sqrt{10}e^{16} + \frac{6}{239}\sqrt{47}e^{23}, \frac{20}{239}\sqrt{3}e^{27} + \frac{12}{239}\sqrt{5}e^{34}$	$(-\frac{1}{239}, -\frac{2}{239}, \frac{17}{239}, -\frac{24}{239}, -\frac{3}{239}, \frac{16}{239}, -\frac{5}{239}, \frac{15}{239}, -\frac{7}{239})$ $- \frac{2}{239}\sqrt{609}e^1 \otimes e_9$	{123478, 1267, 235689, 2459}
9531:91	$0, 0, 0, 0, \frac{11}{427}\sqrt{69}e^{12}, \frac{11}{427}\sqrt{345}e^{13}, \frac{55}{427}\sqrt{3}e^{25},$ $\frac{44}{427}\sqrt{42}e^{16} + \frac{11}{427}\sqrt{615}e^{23}, \frac{11}{427}\sqrt{345}e^{27} + \frac{11}{427}\sqrt{879}e^{34}$	$(\frac{22}{427}, \frac{44}{427}, -\frac{253}{854}, \frac{561}{854}, \frac{66}{427}, -\frac{209}{854}, \frac{110}{427}, -\frac{165}{854}, \frac{22}{61})$ $+ \frac{22}{427}\sqrt{543}e^4 \otimes e_8$	{234, 268}
9531:92	$0, 0, 0, 0, \frac{156}{3989}\sqrt{182}e^{12}, \frac{156}{3989}\sqrt{155}e^{13}, \frac{468}{3989}\sqrt{6}e^{15},$ $\frac{39}{3989}\sqrt{5638}e^{14} + \frac{117}{3989}\sqrt{386}e^{36}, \frac{39}{3989}\sqrt{794}e^{17} + \frac{195}{3989}\sqrt{214}e^{23}$	$(\frac{195}{3989}, -\frac{936}{3989}, \frac{585}{3989}, \frac{1170}{3989}, -\frac{741}{3989}, \frac{780}{3989}, -\frac{546}{3989}, \frac{1365}{3989}, -\frac{351}{3989})$ $+ \frac{78}{3989}\sqrt{1853}e^4 \otimes e_9$	{13689, 2679}
9531:92	$0, 0, 0, 0, \frac{22}{905}\sqrt{510}e^{12}, \frac{66}{905}\sqrt{2}e^{13}, \frac{22}{905}\sqrt{15}e^{15},$ $\frac{11}{905}\sqrt{3290}e^{14} + \frac{11}{905}\sqrt{830}e^{36}, \frac{11}{905}\sqrt{1830}e^{17} + \frac{11}{905}\sqrt{3270}e^{23}$	$(-\frac{33}{905}, \frac{374}{905}, -\frac{99}{905}, -\frac{198}{905}, \frac{341}{905}, -\frac{132}{905}, \frac{308}{905}, -\frac{231}{905}, \frac{55}{181})$ $+ \frac{66}{905}\sqrt{215}e^2 \otimes e_8$	{12346, 4678}
9531:92	$0, 0, 0, 0, \frac{5}{57}\sqrt{11}e^{12}, \frac{2}{57}\sqrt{35}e^{13}, \frac{1}{57}\sqrt{30}e^{15},$ $\frac{2}{57}\sqrt{95}e^{14} + \frac{5}{57}\sqrt{5}e^{36}, \frac{2}{57}\sqrt{11}e^{17} + \frac{1}{57}\sqrt{290}e^{23}$	$(-\frac{1}{57}, \frac{8}{57}, -\frac{1}{19}, -\frac{2}{19}, \frac{7}{57}, -\frac{4}{57}, \frac{2}{19}, -\frac{7}{57}, \frac{5}{57})$ $+ \frac{1}{57}\sqrt{505}e^1 \otimes e_4$	{2345679, 346}
9531:93	$0, 0, 0, 0, \frac{1}{109}\sqrt{177}e^{12}, \frac{2}{109}\sqrt{67}e^{13}, \frac{4}{109}\sqrt{11}e^{15},$ $\frac{1}{109}\sqrt{253}e^{16} + \frac{2}{109}\sqrt{59}e^{34}, \frac{1}{109}\sqrt{177}e^{17} + \frac{6}{109}\sqrt{5}e^{23}$	$(\frac{1}{109}, -\frac{5}{109}, \frac{3}{109}, \frac{2}{109}, -\frac{4}{109}, \frac{4}{109}, -\frac{3}{109}, \frac{5}{109}, -\frac{2}{109})$ $+ \frac{15}{109}e^3 \otimes e_4$	{1245679, 146}
9531:93	$0, 0, 0, 0, \frac{34}{2341}\sqrt{426}e^{12}, \frac{34}{2341}\sqrt{974}e^{13}, \frac{34}{2341}\sqrt{706}e^{15},$ $\frac{17}{2341}\sqrt{4034}e^{16} + \frac{17}{2341}\sqrt{4342}e^{34}, \frac{17}{2341}\sqrt{3774}e^{17} + \frac{51}{2341}\sqrt{46}e^{23}$	$(\frac{85}{2341}, -\frac{374}{2341}, \frac{255}{2341}, \frac{170}{2341}, -\frac{289}{2341}, \frac{340}{2341}, -\frac{204}{2341}, \frac{425}{2341}, -\frac{119}{2341})$ $+ \frac{102}{2341}\sqrt{115}e^4 \otimes e_9$	{159, 235789}
9531:93	$0, 0, 0, 0, \frac{492}{2389}\sqrt{10}e^{12}, \frac{328}{2389}\sqrt{15}e^{13}, \frac{82}{2389}\sqrt{78}e^{15},$ $\frac{41}{2389}\sqrt{782}e^{16} + \frac{1025}{2389}\sqrt{2}e^{34}, \frac{41}{2389}\sqrt{570}e^{17} + \frac{123}{2389}\sqrt{134}e^{23}$	$(-\frac{123}{2389}, \frac{1066}{2389}, -\frac{369}{2389}, \frac{246}{2389}, \frac{943}{2389}, -\frac{492}{2389}, \frac{820}{2389}, -\frac{615}{2389}, \frac{697}{2389})$ $+ \frac{82}{2389}\sqrt{1005}e^2 \otimes e_8$	{1458, 23457}
9531:94	$0, 0, 0, 0, \frac{154}{6333}\sqrt{1229}e^{12}, \frac{154}{6333}\sqrt{646}e^{13}, \frac{1694}{6333}\sqrt{3}e^{15},$ $\frac{77}{6333}\sqrt{2654}e^{24} + \frac{1078}{6333}e^{36}, \frac{77}{6333}\sqrt{1858}e^{17} + \frac{6333}{6333}\sqrt{5014}e^{23}$	$(-\frac{77}{6333}, \frac{2695}{6333}, -\frac{77}{2111}, -\frac{1078}{2111}, \frac{2618}{6333}, -\frac{308}{6333}, \frac{847}{2111}, -\frac{539}{6333}, \frac{2464}{6333})$ $+ \frac{77}{6333}\sqrt{10894}e^2 \otimes e_4$	{2357, 349}
9531:94	$0, 0, 0, 0, \frac{68}{3285}\sqrt{843}e^{12}, \frac{68}{3285}\sqrt{337}e^{13}, \frac{68}{3285}\sqrt{267}e^{15},$ $\frac{68}{3285}\sqrt{1279}e^{24} + \frac{68}{3285}\sqrt{553}e^{36}, \frac{68}{3285}\sqrt{1207}e^{17} + \frac{136}{3285}\sqrt{211}e^{23}$	$(\frac{34}{657}, -\frac{272}{1095}, \frac{34}{219}, \frac{2006}{3285}, -\frac{646}{3285}, \frac{136}{657}, -\frac{476}{3285}, \frac{238}{657}, -\frac{34}{365})$ $+ \frac{68}{3285}\sqrt{2821}e^4 \otimes e_9$	{12589, 1478, 234, 3579}
9531:94	$0, 0, 0, 0, \frac{68}{3285}\sqrt{843}e^{12}, \frac{68}{3285}\sqrt{337}e^{13}, \frac{68}{3285}\sqrt{267}e^{15},$ $\frac{68}{3285}\sqrt{1279}e^{24} + \frac{68}{3285}\sqrt{553}e^{36}, \frac{68}{3285}\sqrt{1207}e^{17} + \frac{136}{3285}\sqrt{211}e^{23}$	$(\frac{34}{657}, -\frac{272}{1095}, \frac{34}{219}, \frac{2006}{3285}, -\frac{646}{3285}, \frac{136}{657}, -\frac{476}{3285}, \frac{238}{657}, -\frac{34}{365})$ $- \frac{68}{3285}\sqrt{2821}e^4 \otimes e_9$	{12589, 1478, 234, 3579}
9531:95	$0, 0, 0, 0, \frac{39}{2764}\sqrt{947}e^{12}, \frac{39}{2764}\sqrt{246}e^{34}, \frac{39}{2764}\sqrt{142}e^{15},$ $\frac{39}{1382}\sqrt{291}e^{25} + \frac{39}{2764}\sqrt{438}e^{36}, \frac{39}{2764}\sqrt{947}e^{17}$	$(-\frac{507}{2764}, \frac{1677}{5528}, \frac{897}{2764}, -\frac{156}{691}, \frac{663}{5528}, \frac{273}{2764}, -\frac{351}{5528}, \frac{585}{1382}, -\frac{1365}{5528})$ $+ \frac{195}{2764}\sqrt{122}e^2 \otimes e_9 + \frac{39}{1382}\sqrt{435}e^3 \otimes e_4$	{2356, 3679}
9531:95	$0, 0, 0, 0, \frac{4}{243}\sqrt{453}e^{12}, \frac{8}{243}\sqrt{151}e^{34}, \frac{2}{243}\sqrt{3473}e^{15},$ $\frac{2}{243}\sqrt{3171}e^{25} + \frac{4}{243}\sqrt{3322}e^{36}, \frac{4}{243}\sqrt{453}e^{17}$	$(\frac{1}{243}, \frac{19}{81}, \frac{139}{243}, -\frac{163}{243}, \frac{58}{243}, -\frac{8}{81}, \frac{59}{243}, \frac{115}{243}, \frac{20}{81})$ $+ \frac{2}{243}\sqrt{29445}e^3 \otimes e_4$	{12367, 13569, 2456789, 468}
9531:95	$0, 0, 0, 0, \frac{4}{111}\sqrt{78}e^{12}, \frac{4}{111}\sqrt{481}e^{34}, \frac{4}{111}\sqrt{78}e^{15},$ $\frac{4}{111}\sqrt{39}e^{25} + \frac{4}{111}\sqrt{78}e^{36}, \frac{52}{111}\sqrt{3}e^{17}$	$(-\frac{6}{37}, \frac{8}{37}, -\frac{22}{111}, \frac{2}{37}, \frac{2}{111}, \frac{52}{111}, -\frac{4}{37}, \frac{10}{37}, -\frac{10}{37})$ $+ \frac{4}{37}\sqrt{130}e^4 \otimes e_9$	{123569, 1259, 2348, 2468}
9531:95	$0, 0, 0, 0, \frac{1}{206}\sqrt{16377}e^{12}, \frac{3}{103}\sqrt{106}e^{34}, \frac{1}{103}\sqrt{1113}e^{15},$ $\frac{3}{103}\sqrt{689}e^{25} + \frac{1}{103}\sqrt{1113}e^{36}, \frac{1}{206}\sqrt{16377}e^{17}$	$(-\frac{53}{206}, \frac{153}{412}, \frac{19}{103}, \frac{12}{103}, \frac{47}{412}, \frac{31}{103}, -\frac{59}{412}, \frac{50}{103}, -\frac{165}{412})$ $+ \frac{1}{103}\sqrt{13515}e^2 \otimes e_9$	{2345, 2456, 3479, 4679}
9531:95	$0, 0, 0, 0, \frac{80}{5091}\sqrt{285}e^{12}, \frac{8}{5091}\sqrt{161215}e^{34}, \frac{304}{5091}\sqrt{30}e^{15},$ $\frac{8}{5091}\sqrt{44745}e^{25} + \frac{8}{1697}\sqrt{19570}e^{36}, \frac{8}{5091}\sqrt{170715}e^{17}$	$(-\frac{352}{1697}, \frac{556}{1697}, \frac{1540}{5091}, -\frac{800}{5091}, \frac{204}{1697}, \frac{740}{5091}, -\frac{148}{1697}, \frac{760}{1697}, -\frac{500}{1697})$ $+ \frac{8}{1697}\sqrt{44270}e^3 \otimes e_9$	{1245689, 13478, 236, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:96	$0, 0, 0, 0, -\frac{13}{41}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{174}e^{13}, \frac{13}{205}\sqrt{134}e^{15},$ $\frac{13}{205}\sqrt{166}e^{16} + \frac{52}{205}\sqrt{13}e^{23}, \frac{26}{205}\sqrt{23}e^{17} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{1345689, 1459, 348, 46, 1345689, 1459, 348, 46}
9531:96	$0, 0, 0, 0, \frac{13}{41}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{174}e^{13}, \frac{13}{205}\sqrt{134}e^{15},$ $\frac{13}{205}\sqrt{166}e^{16} + \frac{52}{205}\sqrt{13}e^{23}, \frac{26}{205}\sqrt{23}e^{17} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{1345689, 1459, 348, 46, 1345689, 1459, 348, 46}
9531:96	$0, 0, 0, 0, -\frac{5}{173}\sqrt{345}e^{12}, \frac{30}{173}\sqrt{10}e^{13}, \frac{5}{173}\sqrt{335}e^{15},$ $\frac{5}{173}\sqrt{365}e^{16} + \frac{5}{173}\sqrt{255}e^{23}, \frac{75}{173}e^{17} + \frac{5}{173}\sqrt{15}e^{36}$	$(\frac{10}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{115}{173}, \frac{30}{173}, \frac{30}{173}, \frac{40}{173}, \frac{40}{173}, \frac{50}{173})$ $+ \frac{60}{173}\sqrt{10}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579, 12378, 1267, 23456789, 24579}
9531:96	$0, 0, 0, 0, \frac{5}{173}\sqrt{345}e^{12}, \frac{30}{173}\sqrt{10}e^{13}, \frac{5}{173}\sqrt{335}e^{15},$ $\frac{5}{173}\sqrt{365}e^{16} + \frac{5}{173}\sqrt{255}e^{23}, \frac{75}{173}e^{17} + \frac{5}{173}\sqrt{15}e^{36}$	$(\frac{10}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{115}{173}, \frac{30}{173}, \frac{30}{173}, \frac{40}{173}, \frac{40}{173}, \frac{50}{173})$ $+ \frac{60}{173}\sqrt{10}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579, 12378, 1267, 23456789, 24579}
9531:97	$0, 0, 0, 0, -\frac{8}{167}\sqrt{177}e^{12}, \frac{24}{167}\sqrt{6}e^{13}, \frac{8}{167}\sqrt{191}e^{25},$ $\frac{24}{167}\sqrt{5}e^{16} + \frac{8}{167}\sqrt{95}e^{23}, \frac{8}{167}\sqrt{141}e^{27} + \frac{24}{167}\sqrt{3}e^{36}$	$(\frac{8}{167}, \frac{16}{167}, \frac{24}{167}, -\frac{112}{167}, \frac{24}{167}, \frac{32}{167}, \frac{40}{167}, \frac{40}{167}, \frac{56}{167})$ $+ \frac{24}{167}\sqrt{62}e^2 \otimes e_4$	{13456789, 14579, 348, 46, 13456789, 14579, 348, 46}
9531:97	$0, 0, 0, 0, \frac{8}{167}\sqrt{177}e^{12}, \frac{24}{167}\sqrt{6}e^{13}, \frac{8}{167}\sqrt{191}e^{25},$ $\frac{24}{167}\sqrt{5}e^{16} + \frac{8}{167}\sqrt{95}e^{23}, \frac{8}{167}\sqrt{141}e^{27} + \frac{24}{167}\sqrt{3}e^{36}$	$(\frac{8}{167}, \frac{16}{167}, \frac{24}{167}, -\frac{112}{167}, \frac{24}{167}, \frac{32}{167}, \frac{40}{167}, \frac{40}{167}, \frac{56}{167})$ $+ \frac{24}{167}\sqrt{62}e^2 \otimes e_4$	{13456789, 14579, 348, 46, 13456789, 14579, 348, 46}
9531:97	$0, 0, 0, 0, -\frac{11}{427}\sqrt{69}e^{12}, \frac{44}{427}\sqrt{42}e^{13}, \frac{55}{427}\sqrt{3}e^{25},$ $\frac{11}{427}\sqrt{345}e^{16} + \frac{11}{427}\sqrt{615}e^{23}, \frac{11}{427}\sqrt{345}e^{27} + \frac{11}{427}\sqrt{879}e^{36}$	$(\frac{22}{427}, \frac{44}{427}, \frac{66}{427}, -\frac{297}{427}, \frac{66}{427}, \frac{88}{427}, \frac{110}{427}, \frac{110}{427}, \frac{22}{61})$ $+ \frac{22}{427}\sqrt{543}e^3 \otimes e_4$	{123579, 12456789, 236, 248, 123579, 12456789, 236, 248}
9531:97	$0, 0, 0, 0, \frac{11}{427}\sqrt{69}e^{12}, \frac{44}{427}\sqrt{42}e^{13}, \frac{55}{427}\sqrt{3}e^{25},$ $\frac{11}{427}\sqrt{345}e^{16} + \frac{11}{427}\sqrt{615}e^{23}, \frac{11}{427}\sqrt{345}e^{27} + \frac{11}{427}\sqrt{879}e^{36}$	$(\frac{22}{427}, \frac{44}{427}, \frac{66}{427}, -\frac{297}{427}, \frac{66}{427}, \frac{88}{427}, \frac{110}{427}, \frac{110}{427}, \frac{22}{61})$ $+ \frac{22}{427}\sqrt{543}e^3 \otimes e_4$	{123579, 12456789, 236, 248, 123579, 12456789, 236, 248}
9531:97	$0, 0, 0, 0, -\frac{1}{37}\sqrt{111}e^{12}, \frac{2}{37}\sqrt{111}e^{13}, \frac{1}{37}\sqrt{407}e^{25},$ $\frac{1}{37}\sqrt{185}e^{16} + \frac{1}{37}\sqrt{703}e^{23}, \frac{5}{37}\sqrt{37}e^{27} + \frac{1}{37}\sqrt{777}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{37}\sqrt{555}e^4 \otimes e_9$	{123589, 12569, 234678, 247, 123589, 12569, 234678, 247}
9531:97	$0, 0, 0, 0, \frac{1}{37}\sqrt{111}e^{12}, \frac{2}{37}\sqrt{111}e^{13}, \frac{1}{37}\sqrt{407}e^{25},$ $\frac{1}{37}\sqrt{185}e^{16} + \frac{1}{37}\sqrt{703}e^{23}, \frac{5}{37}\sqrt{37}e^{27} + \frac{1}{37}\sqrt{777}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{37}\sqrt{555}e^4 \otimes e_9$	{123589, 12569, 234678, 247, 123589, 12569, 234678, 247}
9531:97	$0, 0, 0, 0, -\frac{31}{1393}\sqrt{381}e^{12}, \frac{62}{1393}\sqrt{285}e^{13}, \frac{31}{1393}\sqrt{503}e^{25},$ $\frac{31}{1393}\sqrt{1141}e^{16} + \frac{31}{1393}\sqrt{1015}e^{23}, \frac{31}{1393}\sqrt{377}e^{27} + \frac{31}{1393}\sqrt{3}e^{36}$	$(\frac{62}{1393}, \frac{124}{1393}, \frac{186}{1393}, -\frac{899}{1393}, \frac{186}{1393}, \frac{248}{1393}, \frac{310}{1393}, \frac{310}{1393}, \frac{62}{199})$ $+ \frac{62}{1393}\sqrt{573}e^1 \otimes e_4$	{12378, 1267, 2345689, 2459, 12378, 1267, 2345689, 2459}
9531:97	$0, 0, 0, 0, \frac{31}{1393}\sqrt{381}e^{12}, \frac{62}{1393}\sqrt{285}e^{13}, \frac{31}{1393}\sqrt{503}e^{25},$ $\frac{31}{1393}\sqrt{1141}e^{16} + \frac{31}{1393}\sqrt{1015}e^{23}, \frac{31}{1393}\sqrt{377}e^{27} + \frac{31}{1393}\sqrt{3}e^{36}$	$(\frac{62}{1393}, \frac{124}{1393}, \frac{186}{1393}, -\frac{899}{1393}, \frac{186}{1393}, \frac{248}{1393}, \frac{310}{1393}, \frac{310}{1393}, \frac{62}{199})$ $+ \frac{62}{1393}\sqrt{573}e^1 \otimes e_4$	{12378, 1267, 2345689, 2459, 12378, 1267, 2345689, 2459}
9531:98	$0, 0, 0, 0, -\frac{18}{817}\sqrt{410}e^{12}, \frac{18}{817}\sqrt{1618}e^{13}, \frac{36}{817}\sqrt{79}e^{15},$ $\frac{198}{817}\sqrt{2}e^{25} + \frac{126}{817}\sqrt{30}e^{36}, \frac{36}{817}\sqrt{10}e^{17} + \frac{540}{817}e^{34}$	$(-\frac{126}{817}, \frac{270}{817}, \frac{270}{817}, -\frac{378}{817}, \frac{144}{817}, \frac{144}{817}, \frac{18}{817}, \frac{414}{817}, -\frac{108}{817})$ $+ \frac{36}{817}\sqrt{710}e^3 \otimes e_4$	{123578, 1245678, 356, 45, 123578, 1245678, 356, 45}
9531:98	$0, 0, 0, 0, \frac{18}{817}\sqrt{410}e^{12}, \frac{18}{817}\sqrt{1618}e^{13}, \frac{36}{817}\sqrt{79}e^{15},$ $\frac{198}{817}\sqrt{2}e^{25} + \frac{126}{817}\sqrt{30}e^{36}, \frac{36}{817}\sqrt{10}e^{17} + \frac{540}{817}e^{34}$	$(-\frac{126}{817}, \frac{270}{817}, \frac{270}{817}, -\frac{378}{817}, \frac{144}{817}, \frac{144}{817}, \frac{18}{817}, \frac{414}{817}, -\frac{108}{817})$ $+ \frac{36}{817}\sqrt{710}e^3 \otimes e_4$	{123578, 1245678, 356, 45, 123578, 1245678, 356, 45}
9531:98	$0, 0, 0, 0, -\frac{12}{877}\sqrt{1330}e^{12}, \frac{12}{877}\sqrt{1002}e^{13}, \frac{24}{877}e^{15},$ $\frac{324}{877}\sqrt{2}e^{25} + \frac{12}{877}\sqrt{870}e^{36}, \frac{24}{877}\sqrt{130}e^{17} + \frac{216}{877}\sqrt{5}e^{34}$	$(-\frac{96}{877}, \frac{180}{877}, \frac{180}{877}, -\frac{288}{877}, \frac{84}{877}, \frac{84}{877}, -\frac{12}{877}, \frac{264}{877}, -\frac{108}{877})$ $+ \frac{48}{877}\sqrt{190}e^2 \otimes e_9$	{1234678, 1278, 135689, 14589, 1234678, 1278, 135689, 14589}
9531:98	$0, 0, 0, 0, \frac{12}{877}\sqrt{1330}e^{12}, \frac{12}{877}\sqrt{1002}e^{13}, \frac{24}{877}e^{15},$ $\frac{324}{877}\sqrt{2}e^{25} + \frac{12}{877}\sqrt{870}e^{36}, \frac{24}{877}\sqrt{130}e^{17} + \frac{216}{877}\sqrt{5}e^{34}$	$(-\frac{96}{877}, \frac{180}{877}, \frac{180}{877}, -\frac{288}{877}, \frac{84}{877}, \frac{84}{877}, -\frac{12}{877}, \frac{264}{877}, -\frac{108}{877})$ $+ \frac{48}{877}\sqrt{190}e^2 \otimes e_9$	{1234678, 1278, 135689, 14589, 1234678, 1278, 135689, 14589}
9531:100	$0, 0, 0, 0, \frac{102}{5509}\sqrt{902}e^{12}, \frac{153}{5509}\sqrt{86}e^{13}, \frac{102}{5509}\sqrt{298}e^{25},$ $\frac{51}{5509}\sqrt{5226}e^{15} + \frac{51}{5509}\sqrt{2694}e^{36}, \frac{1122}{5509}\sqrt{2}e^{27} + \frac{51}{5509}\sqrt{4506}e^{34}$	$(\frac{1479}{5509}, -\frac{867}{5509}, \frac{306}{5509}, -\frac{204}{787}, \frac{612}{5509}, \frac{255}{787}, -\frac{255}{5509}, \frac{2091}{5509}, -\frac{1122}{5509})$ $+ \frac{102}{5509}\sqrt{2342}e^1 \otimes e_9$	{379, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:100	$0, 0, 0, 0, \frac{12}{65}\sqrt{10}e^{12}, \frac{3}{13}\sqrt{10}e^{13}, \frac{12}{65}\sqrt{5}e^{25},$ $\frac{3}{65}\sqrt{330}e^{15} + \frac{3}{65}\sqrt{10}e^{36}, \frac{6}{65}\sqrt{35}e^{27} + \frac{3}{13}\sqrt{14}e^{34}$	$(-\frac{3}{13}, \frac{3}{13}, 0, \frac{6}{13}, 0, -\frac{3}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{6}{13})$ $+ \frac{12}{65}\sqrt{35}e^4 \otimes e_8$	{128, 347}
9531:102	$0, 0, 0, 0, -\frac{15}{778}\sqrt{226}e^{12}, \frac{15}{778}\sqrt{1022}e^{13}, \frac{15}{389}\sqrt{37}e^{15},$ $\frac{135}{389}\sqrt{3}e^{14} + \frac{15}{778}\sqrt{26}e^{25} + \frac{15}{778}\sqrt{1370}e^{36}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{180}{389}, \frac{15}{389}, \frac{15}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+ \frac{15}{389}\sqrt{661}e^3 \otimes e_9$	{1245689, 13478, 2346, 4579, 1245689, 13478, 2346, 4579}
9531:102	$0, 0, 0, 0, \frac{15}{778}\sqrt{226}e^{12}, \frac{15}{778}\sqrt{1022}e^{13}, \frac{15}{389}\sqrt{37}e^{15},$ $\frac{135}{389}\sqrt{3}e^{14} + \frac{15}{778}\sqrt{26}e^{25} + \frac{15}{778}\sqrt{1370}e^{36}, \frac{15}{389}\sqrt{274}e^{17}$	$(-\frac{75}{389}, \frac{90}{389}, \frac{90}{389}, \frac{180}{389}, \frac{15}{389}, \frac{15}{389}, -\frac{60}{389}, \frac{105}{389}, -\frac{135}{389})$ $+ \frac{15}{389}\sqrt{661}e^3 \otimes e_9$	{1245689, 13478, 2346, 4579, 1245689, 13478, 2346, 4579}
9531:102	$0, 0, 0, 0, -\frac{13}{161}\sqrt{41}e^{12}, \frac{13}{161}\sqrt{39}e^{13}, \frac{26}{161}e^{15},$ $\frac{13}{161}\sqrt{114}e^{14} + \frac{13}{161}\sqrt{15}e^{25} + \frac{13}{161}\sqrt{17}e^{36}, \frac{52}{161}\sqrt{6}e^{17}$	$(-\frac{39}{161}, \frac{52}{161}, \frac{52}{161}, \frac{104}{161}, \frac{13}{161}, \frac{13}{161}, -\frac{26}{161}, \frac{65}{161}, -\frac{65}{161})$ $+ \frac{13}{161}\sqrt{274}e^4 \otimes e_9$	{13689, 189, 2379, 2679, 13689, 189, 2379, 2679}
9531:102	$0, 0, 0, 0, \frac{13}{161}\sqrt{41}e^{12}, \frac{13}{161}\sqrt{39}e^{13}, \frac{26}{161}e^{15},$ $\frac{13}{161}\sqrt{114}e^{14} + \frac{13}{161}\sqrt{15}e^{25} + \frac{13}{161}\sqrt{17}e^{36}, \frac{52}{161}\sqrt{6}e^{17}$	$(-\frac{39}{161}, \frac{52}{161}, \frac{52}{161}, \frac{104}{161}, \frac{13}{161}, \frac{13}{161}, -\frac{26}{161}, \frac{65}{161}, -\frac{65}{161})$ $+ \frac{13}{161}\sqrt{274}e^4 \otimes e_9$	{13689, 189, 2379, 2679, 13689, 189, 2379, 2679}
9531:104	$0, 0, 0, 0, \frac{1}{13}\sqrt{102}e^{12}, \frac{2}{13}\sqrt{69}e^{13}, \frac{2}{13}\sqrt{39}e^{15},$ $\frac{9}{13}\sqrt{2}e^{16} + \frac{2}{13}\sqrt{15}e^{25} + \frac{2}{13}\sqrt{39}e^{34}, \frac{1}{13}\sqrt{102}e^{17}$	$(-\frac{2}{13}, \frac{3}{13}, \frac{8}{13}, -\frac{4}{13}, \frac{1}{13}, \frac{6}{13}, -\frac{1}{13}, \frac{4}{13}, -\frac{3}{13})$ $+ \frac{1}{13}\sqrt{282}e^3 \otimes e_4$	{1245679, 146}
9531:104	$0, 0, 0, 0, \frac{49}{3001}\sqrt{114}e^{12}, \frac{49}{3001}\sqrt{202}e^{13}, \frac{49}{3001}\sqrt{110}e^{15},$ $\frac{98}{3001}\sqrt{435}e^{16} + \frac{147}{3001}\sqrt{42}e^{25} + \frac{49}{3001}\sqrt{2774}e^{34}, \frac{147}{3001}\sqrt{290}e^{17}$	$(-\frac{441}{3001}, \frac{637}{3001}, \frac{1715}{3001}, -\frac{882}{3001}, \frac{196}{3001}, \frac{1274}{3001}, -\frac{245}{3001}, \frac{833}{3001}, -\frac{686}{3001})$ $+ \frac{392}{3001}\sqrt{78}e^3 \otimes e_9$	{159, 38}
9531:104	$0, 0, 0, 0, \frac{6}{2821}\sqrt{55}e^{12}, \frac{1}{2821}\sqrt{5218}e^{13}, \frac{1}{2821}\sqrt{3982}e^{15},$ $\frac{2}{2821}\sqrt{1182}e^{16} + \frac{1}{403}\sqrt{30}e^{25} + \frac{1}{2821}\sqrt{5686}e^{34}, \frac{18}{2821}\sqrt{14}e^{17}$	$(-\frac{11}{2821}, \frac{10}{2821}, \frac{1}{91}, -\frac{22}{2821}, -\frac{1}{2821}, \frac{20}{2821}, -\frac{12}{2821}, \frac{9}{2821}, -\frac{23}{2821})$ $+ \frac{6}{2821}\sqrt{142}e^4 \otimes e_9$	{159, 235789}
9531:104	$0, 0, 0, 0, \frac{20}{247}\sqrt{51}e^{12}, \frac{45}{247}\sqrt{10}e^{13}, \frac{5}{247}\sqrt{498}e^{15},$ $\frac{90}{247}\sqrt{3}e^{16} + \frac{45}{247}\sqrt{6}e^{25} + \frac{5}{247}\sqrt{498}e^{34}, \frac{20}{247}\sqrt{51}e^{17}$	$(-\frac{25}{247}, \frac{30}{247}, \frac{85}{247}, -\frac{50}{247}, \frac{5}{247}, \frac{60}{247}, -\frac{20}{247}, \frac{35}{247}, -\frac{45}{247})$ $+ \frac{10}{247}\sqrt{321}e^2 \otimes e_9$	{123678, 135689}
9531:105	$0, 0, 0, 0, \frac{7}{197}\sqrt{298}e^{12}, \frac{14}{197}\sqrt{14}e^{13}, \frac{14}{197}\sqrt{93}e^{25},$ $\frac{14}{197}\sqrt{2}e^{15} + \frac{56}{197}\sqrt{5}e^{24} + \frac{35}{197}\sqrt{6}e^{36}, \frac{21}{197}\sqrt{30}e^{27}$	$(-\frac{28}{197}, \frac{42}{197}, \frac{7}{197}, -\frac{56}{197}, \frac{14}{197}, -\frac{21}{197}, \frac{56}{197}, -\frac{14}{197}, \frac{98}{197})$ $+ \frac{21}{197}\sqrt{74}e^2 \otimes e_4$	{12367, 127}
9531:105	$0, 0, 0, 0, \frac{26}{329}\sqrt{71}e^{12}, \frac{52}{329}\sqrt{13}e^{13}, \frac{52}{329}\sqrt{3}e^{25},$ $\frac{104}{329}\sqrt{2}e^{15} + \frac{286}{329}e^{24} + \frac{52}{329}\sqrt{3}e^{36}, \frac{26}{329}\sqrt{93}e^{27}$	$(\frac{104}{329}, -\frac{78}{329}, \frac{13}{329}, \frac{208}{329}, \frac{26}{329}, \frac{117}{329}, -\frac{52}{329}, \frac{130}{329}, -\frac{130}{329})$ $+ \frac{52}{329}\sqrt{69}e^4 \otimes e_9$	{1379, 1679, 23689, 289}
9531:105	$0, 0, 0, 0, \frac{26}{329}\sqrt{71}e^{12}, \frac{52}{329}\sqrt{13}e^{13}, \frac{52}{329}\sqrt{3}e^{25},$ $\frac{104}{329}\sqrt{2}e^{15} + \frac{286}{329}e^{24} + \frac{52}{329}\sqrt{3}e^{36}, \frac{26}{329}\sqrt{93}e^{27}$	$(\frac{104}{329}, -\frac{78}{329}, \frac{13}{329}, \frac{208}{329}, \frac{26}{329}, \frac{117}{329}, -\frac{52}{329}, \frac{130}{329}, -\frac{130}{329})$ $- \frac{52}{329}\sqrt{69}e^4 \otimes e_9$	{1379, 1679, 23689, 289}
9531:105	$0, 0, 0, 0, \frac{10}{263}\sqrt{222}e^{12}, \frac{30}{263}\sqrt{10}e^{13}, \frac{10}{263}\sqrt{21}e^{25},$ $\frac{30}{263}\sqrt{33}e^{15} + \frac{30}{263}\sqrt{26}e^{24} + \frac{10}{263}\sqrt{21}e^{36}, \frac{10}{263}\sqrt{267}e^{27}$	$(\frac{60}{263}, -\frac{50}{263}, \frac{5}{263}, \frac{120}{263}, \frac{10}{263}, \frac{65}{263}, -\frac{40}{263}, \frac{70}{263}, -\frac{90}{263})$ $+ \frac{10}{263}\sqrt{663}e^1 \otimes e_9$	{123478, 124678}
9531:105	$0, 0, 0, 0, \frac{82}{6253}\sqrt{695}e^{12}, \frac{41}{6253}\sqrt{6334}e^{13}, \frac{328}{6253}\sqrt{39}e^{25},$ $\frac{82}{6253}\sqrt{929}e^{15} + \frac{1312}{6253}\sqrt{2}e^{24} + \frac{41}{6253}\sqrt{6090}e^{36}, \frac{123}{6253}\sqrt{642}e^{27}$	$(\frac{943}{6253}, -\frac{861}{6253}, \frac{41}{6253}, \frac{1886}{6253}, \frac{82}{6253}, \frac{984}{6253}, -\frac{779}{6253}, \frac{1025}{6253}, -\frac{1640}{6253})$ $+ \frac{123}{6253}\sqrt{1198}e^3 \otimes e_9$	{1245689, 4579}
9531:107	$0, 0, 0, 0, \frac{69}{6613}\sqrt{2642}e^{12}, \frac{69}{6613}\sqrt{6826}e^{13}, \frac{690}{6613}\sqrt{7}e^{25},$ $\frac{828}{6613}\sqrt{41}e^{36} + \frac{138}{6613}\sqrt{31}e^{16} + \frac{138}{6613}\sqrt{769}e^{27} + \frac{69}{6613}\sqrt{4610}e^{34}$	$(-\frac{1104}{6613}, \frac{483}{6613}, \frac{2553}{6613}, -\frac{2208}{6613}, \frac{621}{6613}, \frac{1449}{6613}, -\frac{138}{6613}, \frac{4002}{6613}, \frac{345}{6613})$ $+ \frac{69}{6613}\sqrt{11126}e^3 \otimes e_4$	{1468, 247}
9531:107	$0, 0, 0, 0, \frac{162}{6469}\sqrt{610}e^{12}, \frac{81}{6469}\sqrt{1702}e^{13}, \frac{162}{6469}\sqrt{181}e^{25},$ $\frac{162}{6469}\sqrt{893}e^{36}, \frac{162}{6469}\sqrt{654}e^{16} + \frac{81}{6469}\sqrt{830}e^{27} + \frac{81}{6469}\sqrt{4838}e^{34}$	$(\frac{2025}{6469}, -\frac{81}{6469}, -\frac{2268}{6469}, \frac{4050}{6469}, \frac{1944}{6469}, -\frac{243}{6469}, \frac{1863}{6469}, -\frac{2511}{6469}, \frac{1782}{6469})$ $+ \frac{81}{6469}\sqrt{10766}e^4 \otimes e_8$	{2568, 389}
9531:107	$0, 0, 0, 0, \frac{26}{757}\sqrt{118}e^{12}, \frac{26}{2271}\sqrt{42}e^{13}, \frac{13}{2271}\sqrt{4542}e^{25},$ $\frac{13}{2271}\sqrt{6486}e^{36} + \frac{26}{2271}\sqrt{1005}e^{16} + \frac{169}{2271}\sqrt{30}e^{27} + \frac{26}{2271}\sqrt{453}e^{34}$	$(\frac{104}{757}, -\frac{13}{757}, -\frac{143}{757}, \frac{208}{757}, \frac{91}{757}, -\frac{39}{757}, \frac{78}{757}, -\frac{182}{757}, \frac{65}{757})$ $+ \frac{13}{2271}\sqrt{11694}e^2 \otimes e_8$	{1247, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:108	$0, 0, 0, 0, \frac{3}{266}\sqrt{1010}e^{12}, \frac{3}{266}\sqrt{870}e^{13}, \frac{3}{266}\sqrt{935}e^{15},$ $\frac{3}{266}\sqrt{1590}e^{16} + \frac{9}{133}\sqrt{30}e^{24}, \frac{3}{266}\sqrt{1010}e^{17} + \frac{9}{133}\sqrt{30}e^{36}$	$(-\frac{15}{266}, \frac{3}{14}, \frac{27}{532}, -\frac{21}{76}, \frac{3}{19}, -\frac{3}{532}, \frac{27}{266}, -\frac{33}{532}, \frac{6}{133})$ $+ \frac{3}{266}\sqrt{2315}e^2 \otimes e_9$	{123678, 1247}
9531:108	$0, 0, 0, 0, \frac{48}{2651}\sqrt{182}e^{12}, \frac{96}{2651}\sqrt{106}e^{13}, \frac{48}{2651}\sqrt{655}e^{15},$ $\frac{96}{2651}\sqrt{290}e^{16} + \frac{48}{2651}\sqrt{11}e^{24}, \frac{96}{2651}\sqrt{295}e^{17} + \frac{48}{2651}\sqrt{877}e^{36}$	$(\frac{312}{2651}, -\frac{768}{2651}, -\frac{72}{2651}, \frac{120}{241}, -\frac{456}{2651}, \frac{240}{2651}, -\frac{144}{2651}, \frac{552}{2651}, \frac{168}{2651})$ $+ \frac{48}{2651}\sqrt{2270}e^4 \otimes e_9$	{134678, 5679}
9531:108	$0, 0, 0, 0, \frac{156}{1273}\sqrt{73}e^{12}, \frac{78}{1273}\sqrt{86}e^{13}, \frac{780}{1273}e^{15},$ $\frac{39}{1273}\sqrt{415}e^{16} + \frac{78}{1273}\sqrt{26}e^{24}, \frac{39}{1273}\sqrt{95}e^{17} + \frac{39}{1273}\sqrt{317}e^{36}$	$(-\frac{273}{2546}, \frac{39}{67}, \frac{234}{1273}, -\frac{780}{1273}, \frac{1209}{2546}, \frac{195}{2546}, \frac{468}{1273}, -\frac{39}{1273}, \frac{663}{2546})$ $+ \frac{39}{1273}\sqrt{2105}e^2 \otimes e_4$	{145, 469}
9531:109	$0, 0, 0, 0, \frac{228}{5887}\sqrt{227}e^{12}, \frac{228}{5887}\sqrt{41}e^{13}, \frac{57}{5887}\sqrt{5410}e^{25},$ $\frac{57}{5887}\sqrt{1310}e^{16} + \frac{114}{5887}\sqrt{1114}e^{24}, \frac{342}{5887}\sqrt{130}e^{27} + \frac{57}{5887}\sqrt{1442}e^{36}$	$(-\frac{1311}{5887}, \frac{1254}{5887}, \frac{1881}{5887}, -\frac{285}{841}, -\frac{57}{5887}, \frac{570}{5887}, \frac{171}{841}, -\frac{741}{5887}, \frac{2451}{5887})$ $+ \frac{57}{5887}\sqrt{10110}e^2 \otimes e_4$	{1345679, 34}
9531:109	$0, 0, 0, 0, \frac{276}{5893}\sqrt{67}e^{12}, \frac{276}{5893}\sqrt{61}e^{13}, \frac{69}{5893}\sqrt{1010}e^{25},$ $\frac{345}{5893}\sqrt{82}e^{16} + \frac{69}{5893}\sqrt{4886}e^{24}, \frac{414}{5893}\sqrt{35}e^{27} + \frac{276}{5893}\sqrt{262}e^{36}$	$(\frac{2001}{5893}, -\frac{1104}{5893}, -\frac{1656}{5893}, \frac{3450}{5893}, \frac{897}{5893}, \frac{345}{5893}, -\frac{207}{5893}, \frac{2346}{5893}, -\frac{1311}{5893})$ $+ \frac{69}{5893}\sqrt{9930}e^4 \otimes e_9$	{1379, 458}
9531:110	$0, 0, 0, 0, \frac{15}{1553}\sqrt{4370}e^{12}, \frac{30}{1553}\sqrt{35}e^{13}, \frac{30}{1553}\sqrt{190}e^{25},$ $\frac{15}{1553}\sqrt{6230}e^{14} + \frac{15}{1553}\sqrt{2510}e^{36}, \frac{30}{1553}\sqrt{895}e^{16} + \frac{120}{1553}\sqrt{85}e^{27}$	$(-\frac{330}{1553}, \frac{45}{1553}, \frac{465}{1553}, \frac{930}{1553}, -\frac{285}{1553}, \frac{135}{1553}, -\frac{240}{1553}, \frac{600}{1553}, -\frac{195}{1553})$ $+ \frac{75}{1553}\sqrt{530}e^4 \otimes e_9$	{146, 2478}
9531:110	$0, 0, 0, 0, \frac{30}{547}\sqrt{15}e^{12}, \frac{10}{547}\sqrt{70}e^{13}, \frac{5}{1641}\sqrt{5470}e^{25},$ $\frac{30}{547}\sqrt{15}e^{14} + \frac{5}{547}\sqrt{670}e^{36}, \frac{10}{1641}\sqrt{1635}e^{16} + \frac{5}{547}\sqrt{670}e^{27}$	$(\frac{50}{547}, \frac{5}{1641}, -\frac{45}{547}, -\frac{90}{547}, \frac{155}{1641}, \frac{5}{547}, \frac{160}{1641}, -\frac{40}{547}, \frac{55}{547})$ $+ \frac{25}{1641}\sqrt{570}e^2 \otimes e_8$	{1247, 468}
9531:110	$0, 0, 0, 0, \frac{30}{1553}\sqrt{895}e^{12}, \frac{120}{1553}\sqrt{85}e^{13}, \frac{30}{1553}\sqrt{190}e^{25},$ $\frac{15}{1553}\sqrt{4370}e^{14} + \frac{30}{1553}\sqrt{35}e^{36}, \frac{15}{1553}\sqrt{6230}e^{16} + \frac{15}{1553}\sqrt{2510}e^{27}$	$(\frac{465}{1553}, \frac{45}{1553}, -\frac{330}{1553}, -\frac{660}{1553}, \frac{510}{1553}, \frac{135}{1553}, \frac{555}{1553}, -\frac{195}{1553}, \frac{600}{1553})$ $+ \frac{75}{1553}\sqrt{530}e^1 \otimes e_4$	{245, 3469}
9531:111	$0, 0, 0, 0, \frac{1}{49}\sqrt{406}e^{12}, \frac{4}{49}\sqrt{7}e^{13}, \frac{3}{49}\sqrt{42}e^{25},$ $\frac{8}{49}\sqrt{7}e^{24} + \frac{2}{49}\sqrt{70}e^{36}, \frac{1}{49}\sqrt{322}e^{16} + \frac{5}{49}\sqrt{14}e^{27}$	$(\frac{1}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{2}{49}\sqrt{154}e^2 \otimes e_4$	{127, 1345679}
9531:111	$0, 0, 0, 0, \frac{10}{529}\sqrt{1235}e^{12}, \frac{10}{529}\sqrt{505}e^{13}, \frac{40}{529}\sqrt{30}e^{25},$ $\frac{20}{529}\sqrt{430}e^{24} + \frac{100}{529}\sqrt{10}e^{36}, \frac{20}{529}\sqrt{390}e^{16} + \frac{100}{529}\sqrt{2}e^{27}$	$(-\frac{110}{529}, \frac{15}{529}, \frac{155}{529}, \frac{185}{529}, -\frac{95}{529}, \frac{45}{529}, -\frac{80}{529}, \frac{200}{529}, -\frac{65}{529})$ $- \frac{10}{529}\sqrt{2365}e^4 \otimes e_9$	{124567, 1379, 23689, 458}
9531:111	$0, 0, 0, 0, \frac{10}{529}\sqrt{1235}e^{12}, \frac{10}{529}\sqrt{505}e^{13}, \frac{40}{529}\sqrt{30}e^{25},$ $\frac{20}{529}\sqrt{430}e^{24} + \frac{100}{529}\sqrt{10}e^{36}, \frac{20}{529}\sqrt{390}e^{16} + \frac{100}{529}\sqrt{2}e^{27}$	$(-\frac{110}{529}, \frac{15}{529}, \frac{155}{529}, \frac{185}{529}, -\frac{95}{529}, \frac{45}{529}, -\frac{80}{529}, \frac{200}{529}, -\frac{65}{529})$ $+ \frac{10}{529}\sqrt{2365}e^4 \otimes e_9$	{124567, 1379, 23689, 458}
9531:112	$0, 0, 0, 0, \frac{292}{6271}\sqrt{111}e^{12}, \frac{876}{6271}\sqrt{2}e^{34}, \frac{73}{6271}\sqrt{3242}e^{15},$ $\frac{1168}{6271}\sqrt{11}e^{13} + \frac{219}{6271}\sqrt{38}e^{46}, \frac{876}{6271}\sqrt{31}e^{17} + \frac{219}{6271}\sqrt{210}e^{36}$	$(\frac{1898}{6271}, -\frac{3431}{6271}, \frac{657}{6271}, \frac{949}{6271}, -\frac{1533}{6271}, \frac{1606}{6271}, \frac{365}{6271}, \frac{2555}{6271}, \frac{2263}{6271})$ $+ \frac{73}{6271}\sqrt{10590}e^1 \otimes e_2$	{137, 1678}
9531:112	$0, 0, 0, 0, \frac{44}{1169}\sqrt{357}e^{12}, \frac{44}{1169}\sqrt{183}e^{34}, \frac{44}{1169}\sqrt{183}e^{15},$ $\frac{198}{1169}\sqrt{19}e^{13} + \frac{264}{1169}\sqrt{2}e^{46}, \frac{22}{1169}\sqrt{762}e^{17} + \frac{132}{1169}\sqrt{37}e^{36}$	$(-\frac{242}{1169}, \frac{99}{167}, \frac{44}{1169}, -\frac{121}{1169}, \frac{451}{1169}, -\frac{11}{167}, \frac{209}{1169}, -\frac{198}{1169}, -\frac{33}{1169})$ $- \frac{110}{1169}\sqrt{114}e^2 \otimes e_9$	{123678, 127, 134589, 14569}
9531:112	$0, 0, 0, 0, \frac{44}{1169}\sqrt{357}e^{12}, \frac{44}{1169}\sqrt{183}e^{34}, \frac{44}{1169}\sqrt{183}e^{15},$ $\frac{198}{1169}\sqrt{19}e^{13} + \frac{264}{1169}\sqrt{2}e^{46}, \frac{22}{1169}\sqrt{762}e^{17} + \frac{132}{1169}\sqrt{37}e^{36}$	$(-\frac{242}{1169}, \frac{99}{167}, \frac{44}{1169}, -\frac{121}{1169}, \frac{451}{1169}, -\frac{11}{167}, \frac{209}{1169}, -\frac{198}{1169}, -\frac{33}{1169})$ $+ \frac{110}{1169}\sqrt{114}e^2 \otimes e_9$	{123678, 127, 134589, 14569}
9531:112	$0, 0, 0, 0, \frac{5}{17}\sqrt{6}e^{12}, \frac{1}{17}\sqrt{6}e^{34}, \frac{1}{17}\sqrt{6}e^{15},$ $\frac{1}{17}\sqrt{102}e^{13} + \frac{5}{17}\sqrt{6}e^{46}, \frac{1}{17}\sqrt{42}e^{17} + \frac{1}{17}\sqrt{42}e^{36}$	$(-\frac{4}{17}, \frac{12}{17}, \frac{1}{17}, -\frac{2}{17}, \frac{8}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{3}{17}, 0)$ $+ \frac{1}{17}\sqrt{426}e^2 \otimes e_8$	{123, 145789}
9531:113	$0, 0, 0, 0, \frac{81}{8149}\sqrt{3098}e^{12}, \frac{243}{8149}\sqrt{34}e^{34}, \frac{81}{8149}\sqrt{962}e^{15},$ $\frac{162}{8149}\sqrt{951}e^{23} + \frac{81}{8149}\sqrt{1506}e^{46}, \frac{3240}{8149}\sqrt{2}e^{17} + \frac{4860}{8149}e^{36}$	$(-\frac{2187}{8149}, \frac{162}{281}, -\frac{2106}{8149}, \frac{81}{281}, \frac{2511}{8149}, \frac{243}{8149}, \frac{324}{8149}, \frac{2592}{8149}, -\frac{1863}{8149})$ $+ \frac{162}{8149}\sqrt{3353}e^2 \otimes e_9$	{13589, 1569}
9531:113	$0, 0, 0, 0, \frac{11}{519}\sqrt{102}e^{12}, \frac{11}{173}\sqrt{6}e^{34}, \frac{11}{519}\sqrt{346}e^{15},$ $\frac{11}{519}\sqrt{318}e^{23} + \frac{11}{173}\sqrt{38}e^{46}, \frac{11}{173}\sqrt{46}e^{17} + \frac{11}{173}\sqrt{34}e^{36}$	$(\frac{88}{519}, -\frac{44}{173}, \frac{33}{173}, -\frac{22}{173}, -\frac{44}{519}, \frac{11}{173}, \frac{44}{519}, -\frac{11}{173}, \frac{44}{173})$ $+ \frac{77}{173}\sqrt{2}e^1 \otimes e_8$	{1237, 245789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:114	$0, 0, 0, 0, \frac{62}{1323}\sqrt{15}e^{12}, \frac{62}{1323}\sqrt{230}e^{13}, \frac{62}{1323}\sqrt{154}e^{15},$ $\frac{62}{1323}\sqrt{129}e^{25} + \frac{248}{1323}\sqrt{21}e^{34}, \frac{248}{441}\sqrt{2}e^{17} + \frac{155}{1323}\sqrt{2}e^{36}$	$(-\frac{248}{1323}, \frac{62}{189}, -\frac{31}{1323}, \frac{31}{63}, \frac{62}{441}, -\frac{31}{147}, -\frac{62}{1323}, \frac{620}{1323}, -\frac{310}{1323})$ $+\frac{31}{1323}\sqrt{2234}e^4 \otimes e_9$	{123467, 235789}
9531:114	$0, 0, 0, 0, \frac{156}{4661}\sqrt{62}e^{12}, \frac{39}{4661}\sqrt{7846}e^{13}, \frac{39}{4661}\sqrt{3466}e^{15},$ $\frac{195}{4661}\sqrt{130}e^{25} + \frac{273}{4661}\sqrt{114}e^{34}, \frac{78}{4661}\sqrt{1043}e^{17} + \frac{78}{4661}\sqrt{1590}e^{36}$	$(\frac{741}{4661}, -\frac{780}{4661}, \frac{351}{4661}, -\frac{1170}{4661}, -\frac{39}{4661}, \frac{1092}{4661}, \frac{702}{4661}, -\frac{819}{4661}, \frac{1443}{4661})$ $+\frac{1092}{4661}\sqrt{11}e^3 \otimes e_4$	{123579, 1245679}
9531:114	$0, 0, 0, 0, \frac{408}{5453}e^{12}, \frac{51}{5453}\sqrt{438}e^{13}, \frac{51}{5453}\sqrt{1226}e^{15},$ $\frac{153}{5453}\sqrt{546}e^{25} + \frac{153}{5453}\sqrt{290}e^{34}, \frac{102}{5453}\sqrt{265}e^{17} + \frac{102}{5453}\sqrt{1038}e^{36}$	$(-\frac{867}{5453}, \frac{204}{779}, -\frac{153}{5453}, \frac{306}{779}, \frac{561}{5453}, -\frac{1020}{5453}, -\frac{306}{5453}, \frac{1989}{5453}, -\frac{1173}{5453})$ $+\frac{204}{5453}\sqrt{577}e^2 \otimes e_9$	{2356, 245}
9531:115	$0, 0, 0, 0, \frac{21}{493}\sqrt{38}e^{12}, \frac{21}{493}\sqrt{10}e^{13}, \frac{21}{493}\sqrt{82}e^{25},$ $\frac{21}{493}\sqrt{70}e^{15} + \frac{21}{493}\sqrt{314}e^{34}, \frac{210}{493}\sqrt{3}e^{27} + \frac{42}{493}\sqrt{31}e^{36}$	$(\frac{147}{493}, -\frac{84}{493}, -\frac{126}{493}, \frac{336}{493}, \frac{63}{493}, \frac{21}{493}, -\frac{21}{493}, \frac{210}{493}, -\frac{105}{493})$ $+\frac{189}{493}\sqrt{10}e^4 \otimes e_9$	{1346, 5679}
9531:115	$0, 0, 0, 0, \frac{1326}{3721}e^{12}, \frac{78}{3721}\sqrt{1678}e^{13}, \frac{858}{3721}\sqrt{2}e^{25},$ $\frac{78}{3721}\sqrt{170}e^{15} + \frac{78}{3721}\sqrt{854}e^{34}, \frac{78}{3721}\sqrt{255}e^{27} + \frac{78}{3721}\sqrt{1610}e^{36}$	$(-\frac{663}{3721}, \frac{858}{3721}, \frac{1287}{3721}, -\frac{1755}{3721}, \frac{195}{3721}, \frac{624}{3721}, \frac{1053}{3721}, -\frac{468}{3721}, \frac{1911}{3721})$ $+\frac{78}{3721}\sqrt{3165}e^3 \otimes e_4$	{139, 1469, 3567, 457}
9531:115	$0, 0, 0, 0, \frac{1326}{3721}e^{12}, \frac{78}{3721}\sqrt{1678}e^{13}, \frac{858}{3721}\sqrt{2}e^{25},$ $\frac{78}{3721}\sqrt{170}e^{15} + \frac{78}{3721}\sqrt{854}e^{34}, \frac{78}{3721}\sqrt{255}e^{27} + \frac{78}{3721}\sqrt{1610}e^{36}$	$(-\frac{663}{3721}, \frac{858}{3721}, \frac{1287}{3721}, \frac{1755}{3721}, \frac{195}{3721}, \frac{624}{3721}, \frac{1053}{3721}, -\frac{468}{3721}, \frac{1911}{3721})$ $-\frac{78}{3721}\sqrt{3165}e^3 \otimes e_4$	{139, 1469, 3567, 457}
9531:122	$0, 0, 0, 0, \frac{70}{479}\sqrt{26}e^{12}, \frac{35}{1437}\sqrt{482}e^{13}, \frac{35}{1437}\sqrt{382}e^{25},$ $\frac{35}{1437}\sqrt{574}e^{16} + \frac{140}{479}\sqrt{5}e^{24}, \frac{70}{479}\sqrt{26}e^{14} + \frac{385}{1437}\sqrt{2}e^{27}$	$(\frac{455}{1437}, \frac{35}{1437}, -\frac{770}{1437}, \frac{35}{479}, \frac{490}{1437}, -\frac{105}{479}, \frac{175}{479}, \frac{140}{1437}, \frac{560}{1437})$ $+\frac{140}{479}\sqrt{17}e^1 \otimes e_3$	{235, 349}
9531:122	$0, 0, 0, 0, \frac{335}{2043}\sqrt{14}e^{12}, \frac{67}{6129}\sqrt{4486}e^{13}, \frac{67}{6129}\sqrt{1186}e^{25},$ $\frac{67}{6129}\sqrt{1586}e^{16} + \frac{670}{6129}\sqrt{15}e^{24}, \frac{335}{6129}\sqrt{78}e^{14} + \frac{67}{2043}\sqrt{554}e^{27}$	$(-\frac{469}{2043}, \frac{268}{6129}, \frac{3886}{6129}, \frac{268}{2043}, -\frac{1139}{6129}, \frac{2479}{6129}, -\frac{871}{6129}, \frac{1072}{6129}, -\frac{67}{681})$ $+\frac{670}{6129}\sqrt{102}e^3 \otimes e_9$	{12569, 4579}
9531:123	$0, 0, 0, 0, \frac{4}{2641}\sqrt{147405}e^{12}, \frac{2}{2641}\sqrt{637170}e^{13}, \frac{2}{2641}\sqrt{440630}e^{25},$ $\frac{60}{2641}\sqrt{2219}e^{15}, \frac{6}{2641}\sqrt{80835}e^{16} + \frac{6}{2641}\sqrt{30115}e^{27}$	$(-\frac{345}{2641}, \frac{161}{2641}, \frac{828}{2641}, 1, -\frac{184}{2641}, \frac{483}{2641}, -\frac{23}{2641}, -\frac{529}{2641}, \frac{138}{2641})$ $+\frac{10}{2641}\sqrt{140431}e^4 \otimes e_8$	{123689, 145, 25678, 3479}
9531:123	$0, 0, 0, 0, \frac{27}{2173}\sqrt{474}e^{12}, \frac{27}{2173}\sqrt{933}e^{13}, \frac{27}{2173}\sqrt{210}e^{25},$ $\frac{27}{2173}\sqrt{1073}e^{15}, \frac{54}{2173}\sqrt{101}e^{16} + \frac{27}{2173}\sqrt{145}e^{27}$	$(-\frac{135}{2173}, \frac{162}{2173}, \frac{621}{2173}, -\frac{864}{2173}, \frac{27}{2173}, \frac{486}{2173}, \frac{189}{2173}, -\frac{108}{2173}, \frac{351}{2173})$ $+\frac{27}{2173}\sqrt{2171}e^1 \otimes e_4 + \frac{54}{2173}\sqrt{433}e^3 \otimes e_8$	{1268, 1359}
9531:123	$0, 0, 0, 0, \frac{52}{901}\sqrt{42}e^{12}, \frac{104}{2703}\sqrt{43}e^{13}, \frac{52}{2703}\sqrt{46}e^{25}, \frac{52}{2703}\sqrt{433}e^{15},$ $\frac{52}{2703}\sqrt{591}e^{16} + \frac{52}{2703}\sqrt{119}e^{27}$	$(\frac{26}{159}, -\frac{52}{901}, -\frac{910}{2703}, \frac{26}{53}, \frac{286}{2703}, -\frac{156}{901}, \frac{130}{2703}, \frac{728}{2703}, -\frac{26}{2703})$ $+\frac{156}{901}\sqrt{17}e^1 \otimes e_3 + \frac{52}{2703}\sqrt{1031}e^4 \otimes e_9$	{1289, 234578}
9531:123	$0, 0, 0, 0, \frac{90}{5909}\sqrt{1109}e^{12}, \frac{45}{5909}\sqrt{1906}e^{13}, \frac{45}{5909}\sqrt{1354}e^{25},$ $\frac{45}{5909}\sqrt{2486}e^{15}, \frac{540}{5909}\sqrt{3}e^{16} + \frac{180}{5909}\sqrt{53}e^{27}$	$(\frac{945}{5909}, -\frac{45}{5909}, -\frac{1080}{5909}, -\frac{2070}{5909}, \frac{900}{5909}, -\frac{135}{5909}, \frac{45}{311}, \frac{1845}{5909}, \frac{810}{5909})$ $+\frac{180}{5909}\sqrt{334}e^2 \otimes e_4 + \frac{45}{5909}\sqrt{5270}e^1 \otimes e_3$	{1278, 23589}
9531:123	$0, 0, 0, 0, \frac{306}{8117}\sqrt{143}e^{12}, \frac{51}{8117}\sqrt{3882}e^{13}, \frac{969}{8117}\sqrt{6}e^{25},$ $\frac{51}{8117}\sqrt{7630}e^{15}, \frac{204}{8117}\sqrt{38}e^{16} + \frac{204}{8117}\sqrt{71}e^{27}$	$(\frac{765}{8117}, -\frac{357}{8117}, -\frac{1836}{8117}, \frac{3774}{8117}, \frac{408}{8117}, -\frac{1071}{8117}, \frac{51}{8117}, \frac{1173}{8117}, -\frac{306}{8117})$ $+\frac{204}{8117}\sqrt{401}e^4 \otimes e_8 + \frac{51}{8117}\sqrt{8686}e^1 \otimes e_3$	{128, 235789}
9531:123	$0, 0, 0, 0, \frac{2}{2777}\sqrt{735585}e^{12}, \frac{4}{2777}\sqrt{512430}e^{13}, \frac{2}{2777}\sqrt{552102}e^{25},$ $\frac{6}{2777}\sqrt{91466}e^{15}, \frac{4}{2777}\sqrt{175218}e^{16} + \frac{10}{2777}\sqrt{11571}e^{27}$	$(-\frac{217}{2777}, \frac{440}{2777}, \frac{1537}{2777}, -\frac{1769}{2777}, \frac{223}{2777}, \frac{1320}{2777}, \frac{663}{2777}, \frac{6}{2777}, \frac{1103}{2777})$ $+\frac{2}{2777}\sqrt{3757269}e^3 \otimes e_4$	{123589, 146, 2478, 35679}
9531:123	$0, 0, 0, 0, \frac{2}{2793}\sqrt{166171}e^{12}, \frac{2}{2793}\sqrt{1102630}e^{13}, \frac{2}{931}\sqrt{15530}e^{25},$ $\frac{2}{2793}\sqrt{1195810}e^{15}, \frac{2}{2793}\sqrt{212761}e^{16} + \frac{4}{2793}\sqrt{96286}e^{27}$	$(-\frac{736}{2793}, \frac{449}{2793}, \frac{2083}{2793}, \frac{500}{2793}, -\frac{41}{399}, \frac{449}{931}, \frac{54}{931}, -\frac{341}{931}, \frac{611}{2793})$ $+\frac{2}{2793}\sqrt{3561029}e^3 \otimes e_8$	{123457, 12357, 146789, 16789}
9531:123	$0, 0, 0, 0, \frac{2}{569}\sqrt{37195}e^{12}, \frac{4}{569}\sqrt{1505}e^{13}, \frac{4}{569}\sqrt{10105}e^{25}, \frac{10}{569}\sqrt{43}e^{15},$ $\frac{18}{569}\sqrt{215}e^{16} + \frac{2}{569}\sqrt{34185}e^{27}$	$(\frac{25}{569}, \frac{49}{569}, \frac{122}{569}, -\frac{381}{569}, \frac{74}{569}, \frac{147}{569}, \frac{123}{569}, \frac{99}{569}, \frac{172}{569})$ $+\frac{10}{569}\sqrt{4085}e^2 \otimes e_4$	{1278, 1345679, 23589, 46}
9531:123	$0, 0, 0, 0, \frac{5}{539}\sqrt{2046}e^{12}, \frac{40}{539}\sqrt{11}e^{13}, \frac{5}{539}\sqrt{2134}e^{25}, \frac{15}{539}\sqrt{154}e^{15},$ $\frac{10}{49}\sqrt{3}e^{16} + \frac{5}{539}\sqrt{2398}e^{27}$	$(-\frac{5}{49}, \frac{5}{49}, \frac{20}{49}, -\frac{20}{49}, 0, \frac{15}{49}, \frac{5}{49}, -\frac{5}{49}, \frac{10}{49})$ $+\frac{5}{539}\sqrt{4070}e^3 \otimes e_8 + \frac{5}{539}\sqrt{6314}e^2 \otimes e_4$	{2589, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:123	$0, 0, 0, 0, \frac{9}{359}\sqrt{586}e^{12}, \frac{1}{359}\sqrt{40434}e^{13}, \frac{1}{359}\sqrt{1758}e^{25}, \frac{1}{359}\sqrt{41606}e^{15},$ $\frac{4}{359}\sqrt{2930}e^{16} + \frac{1}{359}\sqrt{19338}e^{27}$	$(\frac{58}{359}, \frac{17}{359}, -\frac{7}{359}, -\frac{235}{359}, \frac{75}{359}, \frac{51}{359}, \frac{92}{359}, \frac{133}{359}, \frac{109}{359})$ $+ \frac{3}{359}\sqrt{19338}e^1 \otimes e_4$	{1268, 1359, 23456789, 47}
9531:123	$0, 0, 0, 0, \frac{46}{935}\sqrt{183}e^{12}, \frac{2}{2805}\sqrt{733769}e^{13}, \frac{4}{2805}\sqrt{110837}e^{25},$ $\frac{92}{2805}\sqrt{305}e^{15}, \frac{14}{2805}\sqrt{29463}e^{16} + \frac{2}{2805}\sqrt{1120997}e^{27}$	$(\frac{1}{165}, -\frac{2}{935}, -\frac{7}{561}, 1, \frac{1}{255}, -\frac{6}{935}, \frac{1}{561}, \frac{28}{2805}, -\frac{1}{2805})$ $+ \frac{2}{2805}\sqrt{3250751}e^4 \otimes e_9$	{123589, 146, 2478, 35679}
9531:123	$0, 0, 0, 0, \frac{63}{6901}\sqrt{2086}e^{12}, \frac{63}{6901}\sqrt{2958}e^{13}, \frac{315}{6901}\sqrt{14}e^{25},$ $\frac{126}{6901}\sqrt{145}e^{15}, \frac{252}{6901}\sqrt{145}e^{16} + \frac{189}{6901}\sqrt{290}e^{27}$	$(-\frac{1071}{6901}, \frac{378}{6901}, \frac{2205}{6901}, \frac{4032}{6901}, -\frac{693}{6901}, \frac{1134}{6901}, -\frac{315}{6901}, -\frac{1764}{6901}, \frac{63}{6901})$ $+ \frac{63}{6901}\sqrt{5738}e^3 \otimes e_8 + \frac{63}{6901}\sqrt{6434}e^4 \otimes e_9$	{12359, 1468}
9531:123	$0, 0, 0, 0, \frac{6}{1339}\sqrt{32953}e^{12}, \frac{1}{1339}\sqrt{644178}e^{13}, \frac{3}{1339}\sqrt{27638}e^{25},$ $\frac{1}{1339}\sqrt{1150166}e^{15}, \frac{4}{1339}\sqrt{18071}e^{16} + \frac{4}{1339}\sqrt{22323}e^{27}$	$(\frac{407}{1339}, -\frac{83}{1339}, -\frac{656}{1339}, \frac{190}{1339}, \frac{324}{1339}, -\frac{249}{1339}, \frac{241}{1339}, \frac{731}{1339}, \frac{158}{1339})$ $+ \frac{1}{1339}\sqrt{2442774}e^1 \otimes e_3$	{1459, 159, 347, 37}
9531:124	$0, 0, 0, 0, \frac{9}{19}e^{12}, \frac{1}{19}\sqrt{111}e^{13}, \frac{5}{19}\sqrt{6}e^{15}, \frac{1}{19}\sqrt{42}e^{16},$ $\frac{1}{19}\sqrt{123}e^{17} + \frac{2}{19}\sqrt{21}e^{25}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{1}{19}\sqrt{15}e^4 \otimes e_8 + \frac{8}{19}\sqrt{3}e^1 \otimes e_3$	{1247, 235789}
9531:124	$0, 0, 0, 0, \frac{6}{571}\sqrt{323}e^{12}, \frac{2}{571}\sqrt{4845}e^{13}, \frac{2}{571}\sqrt{969}e^{15}, \frac{2}{571}\sqrt{4845}e^{16},$ $\frac{2}{571}\sqrt{50711}e^{17} + \frac{2}{571}\sqrt{44897}e^{25}$	$(-\frac{15}{571}, -\frac{30}{571}, \frac{115}{571}, 1, -\frac{45}{571}, \frac{100}{571}, -\frac{60}{571}, \frac{85}{571}, -\frac{75}{571})$ $+ \frac{2}{571}\sqrt{152133}e^4 \otimes e_9$	{12345678, 12457, 23789, 2679}
9531:124	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{817}e^{13}, \frac{1}{35}\sqrt{874}e^{15}, \frac{1}{35}\sqrt{1558}e^{16},$ $\frac{1}{35}\sqrt{741}e^{17} + \frac{6}{35}\sqrt{19}e^{25}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{1}{7}, 1, \frac{3}{35}, -\frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^4 \otimes e_8$	{138, 146, 35689, 459}
9531:124	$0, 0, 0, 0, \frac{69}{2101}\sqrt{186}e^{12}, \frac{299}{2101}\sqrt{10}e^{13}, \frac{23}{2101}\sqrt{2158}e^{15},$ $\frac{23}{2101}\sqrt{730}e^{16}, \frac{920}{2101}e^{17} + \frac{46}{2101}\sqrt{203}e^{25}$	$(\frac{115}{2101}, \frac{230}{2101}, -\frac{414}{2101}, -\frac{299}{2101}, \frac{345}{2101}, -\frac{299}{2101}, \frac{460}{2101}, -\frac{184}{2101}, \frac{575}{2101})$ $+ \frac{184}{2101}\sqrt{15}e^2 \otimes e_4 + \frac{552}{2101}\sqrt{5}e^1 \otimes e_3$	{127, 235789}
9531:124	$0, 0, 0, 0, \frac{3}{71}\sqrt{354}e^{12}, \frac{1}{71}\sqrt{590}e^{13}, \frac{1}{71}\sqrt{1298}e^{15}, \frac{1}{71}\sqrt{590}e^{16},$ $\frac{2}{71}\sqrt{590}e^{17} + \frac{2}{71}\sqrt{1003}e^{25}$	$(\frac{5}{71}, \frac{10}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{15}{71}, \frac{11}{71}, \frac{20}{71}, \frac{16}{71}, \frac{25}{71})$ $+ \frac{2}{71}\sqrt{1770}e^2 \otimes e_4$	{1345789, 145679, 34678, 47}
9531:124	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{1558}e^{13}, \frac{1}{35}\sqrt{874}e^{15}, \frac{1}{35}\sqrt{817}e^{16},$ $\frac{1}{35}\sqrt{741}e^{17} + \frac{6}{35}\sqrt{19}e^{25}$	$(\frac{1}{35}, \frac{2}{35}, \frac{29}{70}, -\frac{47}{70}, \frac{3}{35}, \frac{31}{70}, \frac{4}{35}, \frac{33}{70}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^3 \otimes e_4$	{138, 146, 35689, 459}
9531:124	$0, 0, 0, 0, \frac{5}{137}\sqrt{111}e^{12}, \frac{5}{137}\sqrt{241}e^{13}, \frac{5}{137}\sqrt{202}e^{15}, \frac{5}{137}\sqrt{214}e^{16},$ $\frac{5}{137}\sqrt{69}e^{17} + \frac{10}{137}\sqrt{51}e^{25}$	$(-\frac{5}{137}, -\frac{10}{137}, \frac{25}{137}, \frac{65}{137}, -\frac{15}{137}, \frac{20}{137}, -\frac{20}{137}, \frac{15}{137}, -\frac{25}{137})$ $+ \frac{15}{137}\sqrt{23}e^4 \otimes e_8 + \frac{60}{137}\sqrt{2}e^3 \otimes e_9$	{138, 459}
9531:124	$0, 0, 0, 0, \frac{19}{2209}\sqrt{906}e^{12}, \frac{38}{2209}\sqrt{295}e^{13}, \frac{38}{2209}\sqrt{337}e^{15},$ $\frac{19}{2209}\sqrt{2170}e^{16}, \frac{95}{2209}\sqrt{66}e^{17} + \frac{57}{2209}\sqrt{238}e^{25}$	$(\frac{95}{2209}, \frac{190}{2209}, -\frac{361}{2209}, -\frac{266}{2209}, \frac{285}{2209}, -\frac{266}{2209}, \frac{380}{2209}, -\frac{171}{2209}, \frac{475}{2209})$ $+ \frac{57}{2209}\sqrt{110}e^1 \otimes e_4 + \frac{57}{2209}\sqrt{330}e^2 \otimes e_8$	{135789, 34678}
9531:124	$0, 0, 0, 0, \frac{2}{19}\sqrt{6}e^{12}, \frac{4}{19}\sqrt{10}e^{13}, \frac{2}{19}\sqrt{57}e^{15}, \frac{1}{19}\sqrt{170}e^{16},$ $\frac{2}{19}\sqrt{55}e^{17} + \frac{2}{19}\sqrt{53}e^{25}$	$(0, 0, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, 0, -\frac{1}{19}, 0)$ $+ \frac{5}{19}\sqrt{6}e^1 \otimes e_3 + \frac{6}{19}\sqrt{5}e^2 \otimes e_8$	{1348, 138}
9531:124	$0, 0, 0, 0, \frac{1}{53}\sqrt{714}e^{12}, \frac{1}{53}\sqrt{986}e^{13}, \frac{1}{53}\sqrt{1326}e^{15}, \frac{1}{53}\sqrt{442}e^{16},$ $\frac{8}{53}\sqrt{17}e^{17} + \frac{2}{53}\sqrt{187}e^{25}$	$(\frac{3}{53}, \frac{6}{53}, -\frac{14}{53}, \frac{5}{53}, \frac{9}{53}, -\frac{11}{53}, \frac{12}{53}, -\frac{8}{53}, \frac{15}{53})$ $+ \frac{4}{53}\sqrt{102}e^1 \otimes e_3$	{1247, 127, 2345789, 235789}
9531:124	$0, 0, 0, 0, \frac{4}{119}\sqrt{258}e^{12}, \frac{2}{119}\sqrt{301}e^{13}, \frac{2}{119}\sqrt{1763}e^{15}, \frac{2}{119}\sqrt{301}e^{16},$ $\frac{2}{119}\sqrt{1419}e^{17} + \frac{6}{119}\sqrt{86}e^{25}$	$(\frac{1}{17}, \frac{2}{17}, \frac{13}{119}, -\frac{79}{119}, \frac{3}{17}, \frac{20}{119}, \frac{4}{17}, \frac{27}{119}, \frac{5}{17})$ $+ \frac{6}{119}\sqrt{473}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579}
9531:124	$0, 0, 0, 0, \frac{26}{1697}\sqrt{489}e^{12}, \frac{26}{1697}\sqrt{737}e^{13}, \frac{26}{1697}\sqrt{939}e^{15},$ $\frac{26}{1697}\sqrt{349}e^{16}, \frac{26}{1697}\sqrt{911}e^{17} + \frac{26}{1697}\sqrt{439}e^{25}$	$(\frac{39}{1697}, \frac{78}{1697}, -\frac{299}{1697}, \frac{533}{1697}, \frac{117}{1697}, -\frac{260}{1697}, \frac{156}{1697}, -\frac{221}{1697}, \frac{195}{1697})$ $+ \frac{234}{1697}\sqrt{5}e^4 \otimes e_9 + \frac{52}{1697}\sqrt{291}e^1 \otimes e_3$	{1247, 235789}
9531:124	$0, 0, 0, 0, \frac{46}{3157}\sqrt{249}e^{12}, \frac{46}{3157}\sqrt{415}e^{13}, \frac{46}{3157}\sqrt{678}e^{15},$ $\frac{23}{3157}\sqrt{3182}e^{16}, \frac{23}{287}\sqrt{22}e^{17} + \frac{46}{3157}\sqrt{974}e^{25}$	$(\frac{69}{3157}, \frac{138}{3157}, -\frac{529}{3157}, \frac{874}{3157}, \frac{207}{3157}, -\frac{460}{3157}, \frac{276}{3157}, -\frac{391}{3157}, \frac{345}{3157})$ $+ \frac{23}{3157}\sqrt{1146}e^4 \otimes e_9 + \frac{23}{3157}\sqrt{4566}e^2 \otimes e_8$	{135789, 34678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:124	$0, 0, 0, 0, \frac{5}{3511}\sqrt{366e^{12}}, \frac{20}{3511}\sqrt{181e^{13}}, \frac{20}{3511}\sqrt{214e^{15}},$ $\frac{5}{3511}\sqrt{3526e^{16}}, \frac{20}{3511}\sqrt{174e^{17}} + \frac{105}{3511}\sqrt{10e^{25}}$	$(-\frac{10}{3511}, -\frac{20}{3511}, -\frac{25}{3511}, \frac{280}{3511}, -\frac{30}{3511}, -\frac{35}{3511}, -\frac{40}{3511}, -\frac{45}{3511}, -\frac{50}{3511})$ $+\frac{15}{3511}\sqrt{254e^3} \otimes e_9 + \frac{60}{3511}\sqrt{29e^2} \otimes e_8$	{34678, 3678}
9531:124	$0, 0, 0, 0, \frac{68}{1817}\sqrt{3e^{12}}, \frac{34}{1817}\sqrt{523e^{13}}, \frac{34}{1817}\sqrt{7e^{15}}, \frac{34}{1817}\sqrt{253e^{16}},$ $\frac{34}{1817}\sqrt{267e^{17}} + \frac{204}{1817}\sqrt{7e^{25}}$	$(-\frac{17}{1817}, -\frac{34}{1817}, \frac{493}{1817}, -\frac{595}{1817}, -\frac{51}{1817}, \frac{476}{1817}, -\frac{68}{1817}, \frac{459}{1817}, -\frac{85}{1817})$ $+\frac{102}{1817}\sqrt{89e^1} \otimes e_4 + \frac{306}{1817}\sqrt{10e^3} \otimes e_9$	{123578, 2479}
9531:124	$0, 0, 0, 0, \frac{16}{557}\sqrt{114e^{12}}, \frac{16}{557}\sqrt{190e^{13}}, \frac{32}{557}\sqrt{73e^{15}}, \frac{16}{557}\sqrt{355e^{16}},$ $\frac{16}{557}\sqrt{330e^{17}} + \frac{16}{557}\sqrt{393e^{25}}$	$(\frac{25}{557}, \frac{50}{557}, -\frac{128}{557}, \frac{62}{557}, \frac{75}{557}, -\frac{103}{557}, \frac{100}{557}, -\frac{78}{557}, \frac{125}{557})$ $+\frac{48}{557}\sqrt{55e^2} \otimes e_8$	{1345789, 135789, 34678, 3678}
9531:124	$0, 0, 0, 0, \frac{105}{3949}\sqrt{62e^{12}}, \frac{35}{3949}\sqrt{2426e^{13}}, \frac{35}{3949}\sqrt{2186e^{15}},$ $\frac{35}{3949}\sqrt{1178e^{16}}, \frac{70}{3949}\sqrt{281e^{17}} + \frac{70}{3949}\sqrt{934e^{25}}$	$(-\frac{35}{3949}, -\frac{70}{3949}, \frac{1050}{3949}, -\frac{1295}{3949}, -\frac{105}{3949}, \frac{1015}{3949}, -\frac{140}{3949}, \frac{980}{3949}, -\frac{175}{3949})$ $+\frac{420}{3949}\sqrt{26e^3} \otimes e_9 + \frac{70}{3949}\sqrt{843e^2} \otimes e_4$	{145679, 34678}
9531:124	$0, 0, 0, 0, \frac{1}{35}\sqrt{21e^{12}}, \frac{2}{35}\sqrt{22e^{13}}, \frac{2}{35}\sqrt{26e^{15}}, \frac{3}{35}\sqrt{13e^{16}},$ $\frac{1}{35}\sqrt{111e^{17}} + \frac{2}{35}\sqrt{31e^{25}}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{3}{35}, -\frac{6}{35}, \frac{3}{35}, -\frac{2}{35}, \frac{4}{35}, -\frac{1}{35}, \frac{1}{7})$ $+\frac{1}{35}\sqrt{53e^3} \otimes e_4 + \frac{2}{35}\sqrt{35e^2} \otimes e_8$	{135789, 3678}
9531:125	$0, 0, 0, 0, \frac{6}{631}\sqrt{5271e^{12}}, \frac{4}{631}\sqrt{17821e^{13}}, \frac{8}{631}\sqrt{753e^{25}}, \frac{2}{631}\sqrt{27861e^{16}},$ $\frac{8}{631}\sqrt{502e^{15}} + \frac{4}{631}\sqrt{17821e^{27}}$	$(-\frac{62}{631}, -\frac{31}{631}, \frac{347}{631}, \frac{112}{631}, -\frac{93}{631}, \frac{285}{631}, -\frac{124}{631}, \frac{223}{631}, -\frac{155}{631})$ $+\frac{2}{631}\sqrt{130269e^3} \otimes e_9$	{124569, 12569, 1348, 138}
9531:125	$0, 0, 0, 0, \frac{30}{1597}\sqrt{786e^{12}}, \frac{45}{1597}\sqrt{406e^{13}}, \frac{30}{1597}\sqrt{258e^{25}},$ $\frac{15}{1597}\sqrt{3306e^{16}}, \frac{15}{1597}\sqrt{1914e^{15}} + \frac{45}{1597}\sqrt{406e^{27}}$	$(-\frac{120}{1597}, -\frac{60}{1597}, \frac{375}{1597}, \frac{810}{1597}, -\frac{180}{1597}, \frac{255}{1597}, -\frac{240}{1597}, \frac{135}{1597}, -\frac{300}{1597})$ $+\frac{15}{1597}\sqrt{3678e^4} \otimes e_8 + \frac{15}{1597}\sqrt{4722e^3} \otimes e_9$	{124569, 138}
9531:125	$0, 0, 0, 0, \frac{1}{41}\sqrt{546e^{12}}, \frac{2}{41}\sqrt{70e^{13}}, \frac{1}{41}\sqrt{42e^{25}}, \frac{1}{41}\sqrt{70e^{16}},$ $\frac{14}{41}\sqrt{2e^{15}} + \frac{2}{41}\sqrt{35e^{27}}$	$(\frac{5}{41}, \frac{5}{82}, -\frac{9}{41}, -\frac{23}{82}, \frac{15}{82}, -\frac{4}{41}, \frac{10}{41}, \frac{1}{41}, \frac{25}{82})$ $+\frac{2}{41}\sqrt{105e^2} \otimes e_4 + \frac{3}{41}\sqrt{70e^1} \otimes e_3$	{1279, 1457}
9531:125	$0, 0, 0, 0, \frac{38}{2273}\sqrt{15e^{12}}, \frac{76}{2273}\sqrt{158e^{13}}, \frac{228}{2273}e^{25}, \frac{114}{2273}\sqrt{33e^{16}},$ $\frac{38}{2273}\sqrt{362e^{15}} + \frac{266}{2273}\sqrt{6e^{27}}$	$(-\frac{38}{2273}, -\frac{19}{2273}, \frac{627}{2273}, \frac{760}{2273}, -\frac{57}{2273}, \frac{589}{2273}, -\frac{76}{2273}, \frac{551}{2273}, -\frac{95}{2273})$ $+\frac{38}{2273}\sqrt{1005e^3} \otimes e_9 + \frac{494}{2273}\sqrt{6e^1} \otimes e_4$	{1269, 1358}
9531:125	$0, 0, 0, 0, \frac{6}{191}\sqrt{14e^{12}}, \frac{2}{191}\sqrt{385e^{13}}, \frac{28}{191}\sqrt{3e^{25}}, \frac{20}{191}\sqrt{7e^{16}},$ $\frac{14}{191}\sqrt{13e^{15}} + \frac{6}{191}\sqrt{70e^{27}}$	$(\frac{10}{191}, \frac{5}{191}, -\frac{29}{191}, -\frac{4}{191}, \frac{15}{191}, -\frac{19}{191}, \frac{20}{191}, -\frac{9}{191}, \frac{25}{191})$ $+\frac{2}{191}\sqrt{210e^1} \otimes e_4 + \frac{6}{191}\sqrt{105e^2} \otimes e_8$	{12569, 138}
9531:125	$0, 0, 0, 0, \frac{136}{2791}\sqrt{15e^{12}}, \frac{17}{2791}\sqrt{1702e^{13}}, \frac{408}{2791}\sqrt{5e^{25}},$ $\frac{680}{2791}\sqrt{2e^{16}}, \frac{272}{2791}\sqrt{13e^{15}} + \frac{17}{2791}\sqrt{3290e^{27}}$	$(\frac{102}{2791}, \frac{51}{2791}, -\frac{442}{2791}, \frac{544}{2791}, \frac{153}{2791}, -\frac{340}{2791}, \frac{204}{2791}, -\frac{238}{2791}, \frac{255}{2791})$ $+\frac{17}{2791}\sqrt{4494e^2} \otimes e_8 + \frac{51}{2791}\sqrt{30e^4} \otimes e_9$	{12569, 1348}
9531:125	$0, 0, 0, 0, \frac{132}{817}\sqrt{14e^{12}}, \frac{22}{817}\sqrt{321e^{13}}, \frac{66}{817}\sqrt{17e^{25}}, \frac{11}{817}\sqrt{222e^{16}},$ $\frac{22}{817}\sqrt{555e^{15}} + \frac{22}{817}\sqrt{321e^{27}}$	$(\frac{88}{817}, \frac{44}{817}, -\frac{275}{817}, \frac{264}{817}, \frac{132}{817}, -\frac{187}{817}, \frac{176}{817}, -\frac{99}{817}, \frac{220}{817})$ $+\frac{11}{817}\sqrt{3318e^1} \otimes e_3 + \frac{220}{817}\sqrt{3e^4} \otimes e_8$	{234579, 347}
9531:125	$0, 0, 0, 0, \frac{888}{4207}e^{12}, \frac{296}{4207}\sqrt{34e^{13}}, \frac{296}{4207}\sqrt{33e^{25}}, \frac{481}{4207}\sqrt{6e^{16}},$ $\frac{296}{4207}\sqrt{22e^{15}} + \frac{37}{4207}\sqrt{3466e^{27}}$	$(-\frac{74}{4207}, -\frac{37}{4207}, \frac{1184}{4207}, -\frac{1406}{4207}, -\frac{111}{4207}, \frac{1110}{4207}, -\frac{148}{4207}, \frac{148}{601}, -\frac{185}{4207})$ $+\frac{111}{4207}\sqrt{430e^2} \otimes e_4 + \frac{37}{4207}\sqrt{3486e^3} \otimes e_9$	{12569, 1348}
9531:125	$0, 0, 0, 0, \frac{4}{131}\sqrt{42e^{12}}, \frac{2}{131}\sqrt{301e^{13}}, \frac{12}{131}\sqrt{14e^{25}}, \frac{8}{131}\sqrt{35e^{16}},$ $\frac{2}{131}\sqrt{595e^{15}} + \frac{8}{131}\sqrt{35e^{27}}$	$(\frac{6}{131}, \frac{3}{131}, -\frac{23}{131}, \frac{20}{131}, \frac{9}{131}, -\frac{17}{131}, \frac{12}{131}, -\frac{11}{131}, \frac{15}{131})$ $+\frac{2}{131}\sqrt{777e^2} \otimes e_8$	{124569, 12569, 1348, 138}
9531:125	$0, 0, 0, 0, \frac{4}{625}\sqrt{17115e^{12}}, \frac{2}{625}\sqrt{62918e^{13}}, \frac{2}{625}\sqrt{40098e^{25}},$ $\frac{4}{625}\sqrt{29503e^{16}}, \frac{2}{625}\sqrt{81826e^{15}} + \frac{2}{625}\sqrt{62918e^{27}}$	$(\frac{24}{625}, \frac{12}{625}, -\frac{3}{25}, \frac{1}{25}, \frac{36}{625}, -\frac{51}{625}, \frac{48}{625}, -\frac{27}{625}, \frac{12}{125})$ $+\frac{26}{625}\sqrt{978e^4} \otimes e_8$	{123589, 124569, 138, 146}
9531:125	$0, 0, 0, 0, \frac{2}{19}\sqrt{6e^{12}}, \frac{2}{19}\sqrt{7e^{13}}, \frac{6}{19}e^{25}, \frac{1}{19}\sqrt{38e^{16}},$ $\frac{2}{19}\sqrt{13e^{15}} + \frac{2}{19}\sqrt{11e^{27}}$	$(0, 0, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, 0, -\frac{1}{19}, 0)$ $+\frac{3}{19}\sqrt{2e^1} \otimes e_3 + \frac{4}{19}\sqrt{3e^2} \otimes e_8$	{1348, 138}
9531:125	$0, 0, 0, 0, \frac{16}{91}\sqrt{6e^{12}}, \frac{16}{91}\sqrt{5e^{13}}, \frac{8}{91}\sqrt{78e^{25}}, \frac{16}{91}\sqrt{5e^{16}},$ $\frac{16}{91}\sqrt{13e^{15}} + \frac{8}{91}\sqrt{70e^{27}}$	$(\frac{10}{91}, \frac{5}{91}, \frac{6}{91}, -\frac{59}{91}, \frac{15}{91}, \frac{16}{91}, \frac{20}{91}, \frac{2}{7}, \frac{25}{91})$ $+\frac{40}{91}\sqrt{6e^2} \otimes e_4$	{12378, 1267, 1345789, 145679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:125	$0, 0, 0, 0, \frac{42}{61}e^{12}, \frac{28}{61}e^{13}, \frac{7}{61}\sqrt{6}e^{25}, \frac{28}{61}e^{16},$ $\frac{7}{61}\sqrt{38}e^{15} + \frac{21}{61}\sqrt{2}e^{27}$	$(\frac{8}{61}, \frac{4}{61}, \frac{2}{61}, -\frac{41}{61}, \frac{12}{61}, \frac{10}{61}, \frac{16}{61}, \frac{18}{61}, \frac{20}{61})$ $+ \frac{7}{61}\sqrt{10}e^1 \otimes e_4$	{23456789, 24579, 34678, 47}
9531:125	$0, 0, 0, 0, \frac{4}{625}\sqrt{17115}e^{12}, \frac{4}{625}\sqrt{29503}e^{13}, \frac{2}{625}\sqrt{40098}e^{25},$ $\frac{2}{625}\sqrt{62918}e^{16}, \frac{2}{625}\sqrt{81826}e^{15} + \frac{2}{625}\sqrt{62918}e^{27}$	$(\frac{24}{625}, \frac{12}{625}, \frac{263}{625}, -\frac{389}{625}, \frac{36}{625}, \frac{287}{625}, \frac{48}{625}, \frac{311}{625}, \frac{12}{125})$ $+ \frac{26}{625}\sqrt{978}e^3 \otimes e_4$	{123589, 124569, 138, 146}
9531:125	$0, 0, 0, 0, \frac{6}{437}\sqrt{42}e^{12}, \frac{2}{437}\sqrt{622}e^{13}, \frac{4}{437}\sqrt{186}e^{25}, \frac{2}{437}\sqrt{870}e^{16},$ $\frac{2}{437}\sqrt{874}e^{15} + \frac{20}{437}\sqrt{10}e^{27}$	$(-\frac{4}{437}, -\frac{2}{437}, -\frac{2}{437}, \frac{56}{437}, -\frac{6}{437}, -\frac{6}{437}, -\frac{8}{437}, -\frac{10}{437}, -\frac{10}{437})$ $+ \frac{18}{437}\sqrt{14}e^2 \otimes e_8 - \frac{2}{437}\sqrt{390}e^3 \otimes e_9$	{124569, 12569, 1348, 138}
9531:125	$0, 0, 0, 0, \frac{6}{437}\sqrt{42}e^{12}, \frac{2}{437}\sqrt{622}e^{13}, \frac{4}{437}\sqrt{186}e^{25}, \frac{2}{437}\sqrt{870}e^{16},$ $\frac{2}{437}\sqrt{874}e^{15} + \frac{20}{437}\sqrt{10}e^{27}$	$(-\frac{4}{437}, -\frac{2}{437}, -\frac{2}{437}, \frac{56}{437}, -\frac{6}{437}, -\frac{6}{437}, -\frac{8}{437}, -\frac{10}{437}, -\frac{10}{437})$ $+ \frac{18}{437}\sqrt{14}e^2 \otimes e_8 + \frac{2}{437}\sqrt{390}e^3 \otimes e_9$	{124569, 12569, 1348, 138}
9531:125	$0, 0, 0, 0, \frac{64}{497}\sqrt{15}e^{12}, \frac{16}{497}\sqrt{182}e^{13}, \frac{16}{497}\sqrt{102}e^{25}, \frac{16}{497}\sqrt{79}e^{16},$ $\frac{16}{497}\sqrt{329}e^{15} + \frac{16}{497}\sqrt{127}e^{27}$	$(\frac{24}{497}, \frac{12}{497}, -\frac{104}{497}, \frac{188}{497}, \frac{36}{497}, -\frac{80}{497}, \frac{48}{497}, -\frac{8}{71}, \frac{60}{497})$ $+ \frac{16}{497}\sqrt{165}e^4 \otimes e_9 + \frac{16}{497}\sqrt{309}e^1 \otimes e_3$	{235789, 3478}
9531:125	$0, 0, 0, 0, \frac{1}{157}\sqrt{210}e^{12}, \frac{1}{157}\sqrt{362}e^{13}, \frac{2}{157}\sqrt{110}e^{25}, \frac{1}{157}\sqrt{510}e^{16},$ $\frac{2}{157}\sqrt{142}e^{15} + \frac{1}{157}\sqrt{510}e^{27}$	$(\frac{4}{157}, \frac{2}{157}, -\frac{9}{157}, -\frac{12}{157}, \frac{6}{157}, \frac{5}{157}, \frac{8}{157}, -\frac{1}{157}, \frac{10}{157})$ $+ \frac{1}{157}\sqrt{190}e^3 \otimes e_4 + \frac{1}{157}\sqrt{634}e^2 \otimes e_8$	{124569, 138}
9531:125	$0, 0, 0, 0, \frac{3}{13}\sqrt{14}e^{12}, \frac{2}{13}\sqrt{21}e^{13}, \frac{1}{13}\sqrt{42}e^{25}, \frac{2}{13}\sqrt{7}e^{16},$ $\frac{2}{13}\sqrt{35}e^{15} + \frac{2}{13}\sqrt{21}e^{27}$	$(\frac{2}{13}, \frac{1}{13}, -\frac{5}{13}, \frac{1}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{4}{13}, -\frac{1}{13}, \frac{5}{13})$ $+ \frac{2}{13}\sqrt{42}e^1 \otimes e_3$	{2345789, 235789, 3478, 378}
9531:125	$0, 0, 0, 0, \frac{12}{589}\sqrt{83}e^{12}, \frac{4}{589}\sqrt{2490}e^{13}, \frac{12}{589}\sqrt{249}e^{25}, \frac{4}{589}\sqrt{2490}e^{16},$ $\frac{4}{589}\sqrt{15023}e^{15} + \frac{4}{589}\sqrt{11039}e^{27}$	$(-\frac{30}{589}, -\frac{15}{589}, \frac{130}{589}, 1, -\frac{45}{589}, \frac{100}{589}, -\frac{60}{589}, \frac{70}{589}, -\frac{75}{589})$ $+ \frac{4}{589}\sqrt{40587}e^4 \otimes e_9$	{123689, 129, 134568, 145}
9531:126	$0, 0, 0, 0, \frac{21}{83}\sqrt{6}e^{12}, \frac{9}{83}\sqrt{30}e^{13}, \frac{18}{83}e^{15},$ $\frac{6}{83}\sqrt{3}e^{16} + \frac{3}{83}\sqrt{258}e^{23}, \frac{3}{83}\sqrt{258}e^{17} + \frac{3}{83}\sqrt{258}e^{24}$	$(-\frac{3}{83}, -\frac{6}{83}, \frac{39}{83}, -\frac{9}{83}, -\frac{9}{83}, \frac{36}{83}, -\frac{12}{83}, \frac{33}{83}, -\frac{15}{83})$ $+ \frac{9}{83}\sqrt{94}e^3 \otimes e_9$	{123457, 2789}
9531:126	$0, 0, 0, 0, \frac{1}{19}\sqrt{111}e^{12}, \frac{1}{19}\sqrt{165}e^{13}, \frac{3}{19}\sqrt{14}e^{15},$ $\frac{3}{19}\sqrt{26}e^{16} + \frac{2}{19}\sqrt{21}e^{23}, \frac{3}{19}\sqrt{17}e^{17} + \frac{8}{19}\sqrt{3}e^{24}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{3}{19}\sqrt{23}e^4 \otimes e_8$	{1235789, 247}
9531:126	$0, 0, 0, 0, \frac{1}{559}\sqrt{2514}e^{12}, \frac{1}{559}\sqrt{3966}e^{13}, \frac{3}{559}\sqrt{298}e^{15},$ $\frac{1}{559}\sqrt{3966}e^{16} + \frac{2}{559}\sqrt{987}e^{23}, \frac{2}{559}\sqrt{717}e^{17} + \frac{32}{559}\sqrt{3}e^{24}$	$(-\frac{3}{559}, -\frac{6}{559}, \frac{22}{559}, -\frac{9}{559}, -\frac{9}{559}, \frac{19}{559}, -\frac{12}{559}, \frac{16}{559}, -\frac{15}{559})$ $+ \frac{18}{559}\sqrt{10}e^2 \otimes e_4$	{348, 46}
9531:127	$0, 0, 0, 0, \frac{4}{149}\sqrt{510}e^{12}, \frac{4}{149}\sqrt{390}e^{13}, \frac{24}{149}\sqrt{3}e^{25},$ $\frac{8}{149}\sqrt{30}e^{16} + \frac{4}{149}\sqrt{582}e^{23}, \frac{4}{149}\sqrt{546}e^{14} + \frac{4}{149}\sqrt{390}e^{27}$	$(-\frac{4}{149}, -\frac{8}{149}, \frac{68}{149}, -\frac{24}{149}, -\frac{12}{149}, \frac{64}{149}, -\frac{20}{149}, \frac{60}{149}, -\frac{28}{149})$ $+ \frac{12}{149}\sqrt{170}e^3 \otimes e_9$	{123457, 2489}
9531:127	$0, 0, 0, 0, \frac{104}{1033}\sqrt{15}e^{12}, \frac{26}{1033}\sqrt{645}e^{13}, \frac{351}{1033}\sqrt{2}e^{25},$ $\frac{26}{1033}\sqrt{165}e^{16} + \frac{26}{1033}\sqrt{1203}e^{23}, \frac{13}{1033}\sqrt{4326}e^{14} + \frac{26}{1033}\sqrt{645}e^{27}$	$(\frac{52}{1033}, \frac{104}{1033}, -\frac{299}{1033}, \frac{312}{1033}, \frac{156}{1033}, -\frac{247}{1033}, \frac{260}{1033}, -\frac{195}{1033}, \frac{364}{1033})$ $+ \frac{312}{1033}\sqrt{10}e^4 \otimes e_8$	{147, 4569}
9531:127	$0, 0, 0, 0, \frac{5}{1219}\sqrt{1074}e^{12}, \frac{5}{1219}\sqrt{5682}e^{13}, \frac{15}{1219}\sqrt{246}e^{25},$ $\frac{5}{1219}\sqrt{5682}e^{16} + \frac{10}{1219}\sqrt{1443}e^{23}, \frac{5}{1219}\sqrt{5034}e^{14} + \frac{5}{1219}\sqrt{3534}e^{27}$	$(-\frac{15}{1219}, -\frac{30}{1219}, \frac{160}{1219}, -\frac{90}{1219}, -\frac{45}{1219}, \frac{145}{1219}, -\frac{75}{1219}, \frac{130}{1219}, -\frac{105}{1219})$ $+ \frac{30}{1219}\sqrt{179}e^1 \otimes e_4$	{12378, 1267}
9531:128	$0, 0, 0, 0, \frac{126}{4237}\sqrt{829}e^{12}, \frac{1512}{4237}\sqrt{3}e^{13}, \frac{126}{4237}\sqrt{246}e^{15},$ $\frac{126}{4237}\sqrt{7}e^{16} + \frac{63}{4237}\sqrt{1798}e^{24}, \frac{63}{4237}\sqrt{1222}e^{17} + \frac{63}{4237}\sqrt{3302}e^{23}$	$(-\frac{63}{4237}, \frac{1827}{4237}, -\frac{189}{4237}, \frac{2142}{4237}, \frac{1764}{4237}, \frac{252}{4237}, \frac{1701}{4237}, -\frac{315}{4237}, \frac{1638}{4237})$ $+ \frac{63}{4237}\sqrt{7278}e^2 \otimes e_4$	{1279, 145}
9531:129	$0, 0, 0, 0, \frac{48}{3527}\sqrt{10}e^{12}, \frac{16}{3527}\sqrt{1614}e^{13}, \frac{16}{3527}\sqrt{877}e^{15},$ $\frac{32}{3527}\sqrt{523}e^{13} + \frac{16}{3527}\sqrt{1873}e^{46}, \frac{192}{3527}\sqrt{11}e^{17} + \frac{16}{3527}\sqrt{777}e^{23}$	$(\frac{80}{3527}, -\frac{328}{3527}, \frac{240}{3527}, \frac{40}{3527}, -\frac{248}{3527}, \frac{280}{3527}, -\frac{168}{3527}, \frac{320}{3527}, -\frac{88}{3527})$ $+ \frac{96}{3527}\sqrt{83}e^4 \otimes e_9$	{123478, 135689}
9531:129	$0, 0, 0, 0, \frac{408}{3233}\sqrt{22}e^{12}, \frac{204}{3233}\sqrt{34}e^{13}, \frac{204}{3233}e^{15},$ $\frac{68}{3233}\sqrt{482}e^{13} + \frac{68}{3233}\sqrt{917}e^{46}, \frac{68}{3233}\sqrt{570}e^{17} + \frac{204}{3233}\sqrt{105}e^{23}$	$(-\frac{204}{3233}, \frac{1496}{3233}, -\frac{612}{3233}, -\frac{102}{3233}, \frac{1292}{3233}, -\frac{714}{3233}, \frac{1088}{3233}, -\frac{816}{3233}, \frac{884}{3233})$ $+ \frac{136}{3233}\sqrt{681}e^2 \otimes e_8$	{1458, 1568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:131	$0, 0, 0, 0, \frac{7}{369}\sqrt{870}e^{12}, \frac{7}{369}\sqrt{610}e^{34}, \frac{7}{369}\sqrt{190}e^{15},$ $\frac{14}{123}\sqrt{35}e^{24} + \frac{7}{369}\sqrt{430}e^{36}, \frac{14}{369}\sqrt{330}e^{17} + \frac{70}{369}\sqrt{6}e^{23}$	$(-\frac{7}{369}, -\frac{14}{123}, -\frac{7}{123}, \frac{182}{369}, -\frac{49}{369}, \frac{161}{369}, -\frac{56}{369}, \frac{140}{369}, -\frac{7}{41})$ $+ \frac{28}{369}\sqrt{195}e^4 \otimes e_9$	{12589, 234}
9531:131	$0, 0, 0, 0, \frac{14}{501}\sqrt{69}e^{12}, \frac{14}{501}\sqrt{30}e^{34}, \frac{7}{501}\sqrt{334}e^{15},$ $\frac{14}{501}\sqrt{51}e^{24} + \frac{7}{501}\sqrt{402}e^{36}, \frac{7}{167}\sqrt{42}e^{17} + \frac{14}{501}\sqrt{102}e^{23}$	$(\frac{7}{501}, \frac{14}{167}, \frac{7}{167}, -\frac{28}{167}, \frac{49}{501}, -\frac{21}{167}, \frac{56}{501}, -\frac{14}{167}, \frac{21}{167})$ $+ \frac{7}{167}\sqrt{94}e^1 \otimes e_8$	{159, 348}
9531:132	$0, 0, 0, 0, \frac{2}{243}\sqrt{3473}e^{12}, \frac{8}{243}\sqrt{151}e^{34}, \frac{4}{243}\sqrt{453}e^{15}, \frac{4}{243}\sqrt{453}e^{25},$ $\frac{2}{243}\sqrt{3171}e^{17} + \frac{4}{243}\sqrt{3322}e^{36}$	$(\frac{34}{243}, \frac{13}{243}, \frac{139}{243}, -\frac{163}{243}, \frac{47}{243}, -\frac{8}{81}, \frac{1}{3}, \frac{20}{81}, \frac{115}{243})$ $+ \frac{2}{243}\sqrt{29445}e^3 \otimes e_4$	{1246789, 13568, 23567, 469}
9531:132	$0, 0, 0, 0, \frac{304}{5091}\sqrt{30}e^{12}, \frac{8}{5091}\sqrt{161215}e^{34}, \frac{80}{5091}\sqrt{285}e^{15},$ $\frac{8}{5091}\sqrt{170715}e^{25}, \frac{8}{5091}\sqrt{44745}e^{17} + \frac{8}{1697}\sqrt{19570}e^{36}$	$(\frac{404}{1697}, -\frac{452}{1697}, \frac{1540}{5091}, -\frac{800}{5091}, -\frac{48}{1697}, \frac{740}{5091}, \frac{356}{1697}, -\frac{500}{1697}, \frac{760}{1697})$ $+ \frac{8}{1697}\sqrt{44270}e^3 \otimes e_8$	{128, 1456789, 23459, 367}
9531:132	$0, 0, 0, 0, \frac{66}{7157}\sqrt{1517}e^{12}, \frac{660}{7157}\sqrt{3}e^{34}, \frac{132}{7157}\sqrt{70}e^{15},$ $\frac{132}{7157}\sqrt{435}e^{25}, \frac{66}{7157}\sqrt{389}e^{17} + \frac{264}{7157}\sqrt{141}e^{36}$	$(-\frac{726}{7157}, \frac{99}{421}, \frac{33}{421}, -\frac{1617}{7157}, \frac{957}{7157}, -\frac{1056}{7157}, \frac{231}{7157}, \frac{2640}{7157}, -\frac{495}{7157})$ $+ \frac{132}{7157}\sqrt{1010}e^2 \otimes e_9 + \frac{66}{7157}\sqrt{2217}e^3 \otimes e_4$	{2356, 4679}
9531:132	$0, 0, 0, 0, \frac{4}{111}\sqrt{78}e^{12}, \frac{4}{111}\sqrt{481}e^{34}, \frac{4}{111}\sqrt{78}e^{15}, \frac{52}{111}\sqrt{3}e^{25},$ $\frac{4}{111}\sqrt{39}e^{17} + \frac{4}{111}\sqrt{78}e^{36}$	$(\frac{6}{37}, -\frac{8}{37}, -\frac{22}{111}, \frac{2}{3}, -\frac{2}{37}, \frac{52}{111}, \frac{4}{37}, -\frac{10}{37}, \frac{10}{37})$ $+ \frac{4}{37}\sqrt{130}e^4 \otimes e_8$	{135678, 1578, 3479, 4679}
9531:132	$0, 0, 0, 0, \frac{4}{1729}\sqrt{60762}e^{12}, \frac{12}{1729}\sqrt{1435}e^{34}, \frac{4}{247}\sqrt{246}e^{15},$ $\frac{12}{1729}\sqrt{8323}e^{25}, \frac{4}{1729}\sqrt{30381}e^{17} + \frac{4}{1729}\sqrt{60762}e^{36}$	$(-\frac{328}{1729}, \frac{626}{1729}, -\frac{284}{1729}, \frac{30}{247}, \frac{298}{1729}, -\frac{74}{1729}, -\frac{30}{1729}, \frac{132}{247}, -\frac{358}{1729})$ $+ \frac{4}{1729}\sqrt{173922}e^2 \otimes e_9$	{2356, 25, 3479, 4679}
9531:132	$0, 0, 0, 0, \frac{12}{7451}\sqrt{1346}e^{12}, \frac{12}{7451}\sqrt{1371}e^{34}, \frac{12}{7451}\sqrt{622}e^{15},$ $\frac{36}{7451}\sqrt{299}e^{25}, \frac{60}{7451}\sqrt{5}e^{17} + \frac{12}{7451}\sqrt{2442}e^{36}$	$(-\frac{24}{7451}, \frac{126}{7451}, \frac{300}{7451}, -\frac{546}{7451}, \frac{102}{7451}, -\frac{246}{7451}, \frac{78}{7451}, \frac{228}{7451}, \frac{54}{7451})$ $+ \frac{12}{7451}\sqrt{3338}e^2 \otimes e_9 + \frac{24}{7451}\sqrt{822}e^3 \otimes e_8$	{2356, 3479}
9531:132	$0, 0, 0, 0, \frac{36}{773}\sqrt{35}e^{12}, \frac{54}{773}\sqrt{14}e^{34}, \frac{18}{773}\sqrt{61}e^{15}, \frac{18}{773}\sqrt{278}e^{25},$ $\frac{18}{773}\sqrt{70}e^{17} + \frac{36}{773}\sqrt{35}e^{36}$	$(-\frac{54}{773}, \frac{72}{773}, -\frac{171}{773}, \frac{252}{773}, \frac{18}{773}, \frac{81}{773}, -\frac{36}{773}, \frac{90}{773}, -\frac{90}{773})$ $+ \frac{18}{773}\sqrt{283}e^4 \otimes e_8 + \frac{18}{773}\sqrt{395}e^2 \otimes e_9$	{3479, 4679}
9531:133	$0, 0, 0, 0, \frac{28}{211}\sqrt{10}e^{12}, \frac{14}{211}\sqrt{10}e^{34}, \frac{7}{633}\sqrt{2490}e^{15}, \frac{7}{633}\sqrt{2110}e^{36},$ $\frac{7}{633}\sqrt{2010}e^{17} + \frac{14}{633}\sqrt{285}e^{25}$	$(\frac{13}{211}, \frac{26}{211}, -\frac{139}{633}, \frac{24}{211}, \frac{39}{211}, -\frac{67}{633}, \frac{52}{211}, -\frac{206}{633}, \frac{65}{211})$ $+ \frac{35}{633}\sqrt{210}e^1 \otimes e_8$	{12367, 127, 2345789, 2456789}
9531:133	$0, 0, 0, 0, \frac{2}{1389}\sqrt{534}e^{12}, \frac{2}{1389}\sqrt{1002}e^{34}, \frac{4}{463}\sqrt{29}e^{15}, \frac{4}{1389}\sqrt{463}e^{36},$ $\frac{2}{463}\sqrt{182}e^{17} + \frac{4}{463}\sqrt{3}e^{25}$	$(\frac{2}{463}, \frac{4}{463}, \frac{38}{1389}, -\frac{26}{463}, \frac{6}{463}, -\frac{40}{1389}, \frac{8}{463}, -\frac{2}{1389}, \frac{10}{463})$ $+ \frac{10}{1389}\sqrt{102}e^1 \otimes e_8 + \frac{4}{1389}\sqrt{579}e^3 \otimes e_9$	{159, 348}
9531:133	$0, 0, 0, 0, \frac{1}{161}\sqrt{3642}e^{12}, \frac{1}{483}\sqrt{40062}e^{34}, \frac{1}{161}\sqrt{3642}e^{15},$ $\frac{1}{483}\sqrt{195454}e^{36}, \frac{2}{161}\sqrt{607}e^{17} + \frac{1}{161}\sqrt{607}e^{25}$	$(\frac{9}{161}, \frac{18}{161}, \frac{289}{483}, -\frac{106}{161}, \frac{27}{161}, -\frac{29}{483}, \frac{36}{161}, \frac{260}{483}, \frac{45}{161})$ $+ \frac{16}{483}\sqrt{1821}e^3 \otimes e_4$	{13569, 145689, 36, 468}
9531:133	$0, 0, 0, 0, \frac{1}{123}\sqrt{582}e^{12}, \frac{1}{123}\sqrt{7954}e^{34}, \frac{1}{123}\sqrt{582}e^{15}, \frac{1}{123}\sqrt{1455}e^{36},$ $\frac{1}{41}\sqrt{679}e^{17} + \frac{1}{41}\sqrt{679}e^{25}$	$(-\frac{1}{41}, -\frac{2}{41}, -\frac{26}{123}, \frac{2}{3}, -\frac{3}{41}, \frac{56}{123}, -\frac{4}{41}, \frac{10}{41}, -\frac{5}{41})$ $+ \frac{1}{123}\sqrt{19497}e^4 \otimes e_9$	{1234578, 1245678, 23679, 279}
9531:133	$0, 0, 0, 0, \frac{24}{1277}\sqrt{290}e^{12}, \frac{48}{1277}\sqrt{51}e^{34}, \frac{24}{1277}\sqrt{109}e^{15},$ $\frac{12}{1277}\sqrt{1090}e^{36}, \frac{12}{1277}\sqrt{210}e^{17} + \frac{12}{1277}\sqrt{1918}e^{25}$	$(\frac{24}{1277}, \frac{48}{1277}, -\frac{324}{1277}, \frac{408}{1277}, \frac{72}{1277}, \frac{84}{1277}, \frac{96}{1277}, -\frac{240}{1277}, \frac{120}{1277})$ $+ \frac{12}{1277}\sqrt{1838}e^4 \otimes e_9 + \frac{24}{1277}\sqrt{665}e^2 \otimes e_8$	{3478, 4678}
9531:133	$0, 0, 0, 0, \frac{44}{3941}\sqrt{30}e^{12}, \frac{22}{3941}\sqrt{122}e^{34}, \frac{11}{3941}\sqrt{218}e^{15},$ $\frac{11}{11823}\sqrt{7882}e^{36}, \frac{22}{11823}\sqrt{30}e^{17} + \frac{44}{3941}\sqrt{59}e^{25}$	$(\frac{22}{3941}, \frac{44}{3941}, \frac{451}{11823}, -\frac{297}{3941}, \frac{66}{3941}, -\frac{440}{11823}, \frac{88}{3941}, \frac{11}{11823}, \frac{110}{3941})$ $+ \frac{11}{11823}\sqrt{10470}e^2 \otimes e_8 + \frac{11}{3941}\sqrt{1174}e^3 \otimes e_9$	{129, 2356}
9531:133	$0, 0, 0, 0, \frac{236}{4553}\sqrt{55}e^{12}, \frac{236}{4553}\sqrt{7}e^{34}, \frac{118}{4553}\sqrt{51}e^{15},$ $\frac{59}{13659}\sqrt{9106}e^{36}, \frac{118}{13659}\sqrt{1119}e^{17} + \frac{118}{4553}\sqrt{237}e^{25}$	$(\frac{236}{4553}, \frac{472}{4553}, \frac{472}{13659}, -\frac{1003}{4553}, \frac{708}{4553}, -\frac{2537}{13659}, \frac{944}{4553}, -\frac{2065}{13659}, \frac{1180}{4553})$ $+ \frac{118}{13659}\sqrt{4065}e^2 \otimes e_8 + \frac{118}{13659}\sqrt{8034}e^3 \otimes e_4$	{1456789, 4678}
9531:133	$0, 0, 0, 0, \frac{2}{113}\sqrt{79}e^{12}, \frac{2}{339}\sqrt{8927}e^{34}, \frac{2}{113}\sqrt{79}e^{15}, \frac{2}{339}\sqrt{8927}e^{36},$ $\frac{2}{339}\sqrt{6873}e^{17} + \frac{2}{339}\sqrt{6873}e^{25}$	$(-\frac{3}{113}, -\frac{6}{113}, \frac{1}{3}, -\frac{53}{339}, -\frac{9}{113}, \frac{20}{113}, -\frac{12}{113}, \frac{173}{339}, -\frac{15}{113})$ $+ \frac{2}{113}\sqrt{2449}e^3 \otimes e_9$	{1234578, 123567, 246789, 279}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:133	$0, 0, 0, 0, \frac{20}{1607}\sqrt{2651}e^{12}, \frac{4}{1607}\sqrt{8435}e^{34}, \frac{2}{1607}\sqrt{61455}e^{15},$ $\frac{2}{4821}\sqrt{1936435}e^{36}, \frac{2}{4821}\sqrt{1348395}e^{17} + \frac{2}{1607}\sqrt{285585}e^{25}$	$(\frac{118}{1607}, \frac{236}{1607}, -\frac{1103}{4821}, \frac{168}{1607}, \frac{354}{1607}, -\frac{599}{4821}, \frac{472}{1607}, -\frac{1702}{4821}, \frac{590}{1607})$ $+ \frac{10}{4821}\sqrt{195933}e^2 \otimes e_8$	{1345789, 1456789, 3478, 4678}
9531:133	$0, 0, 0, 0, \frac{52}{287}\sqrt{2}e^{12}, \frac{26}{287}\sqrt{2}e^{34}, \frac{13}{861}\sqrt{498}e^{15}, \frac{13}{861}\sqrt{574}e^{36},$ $\frac{13}{861}\sqrt{402}e^{17} + \frac{26}{861}\sqrt{57}e^{25}$	$(\frac{13}{287}, \frac{26}{287}, \frac{13}{861}, -\frac{52}{287}, \frac{39}{287}, -\frac{143}{861}, \frac{52}{287}, -\frac{130}{861}, \frac{65}{287})$ $+ \frac{26}{861}\sqrt{114}e^3 \otimes e_4 + \frac{65}{861}\sqrt{42}e^1 \otimes e_8$	{12367, 2456789}
9531:134	$0, 0, 0, 0, -\frac{1}{10}\sqrt{15}e^{12}, \frac{1}{2}e^{13}, \frac{1}{5}\sqrt{5}e^{15},$ $\frac{1}{10}\sqrt{70}e^{25} + \frac{1}{5}\sqrt{15}e^{36}, \frac{1}{10}\sqrt{15}e^{17} + \frac{1}{2}\sqrt{2}e^{23}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{165}e^4 \otimes e_8$	{12389, 13578, 245, 479, 12389, 13578, 245, 479}
9531:134	$0, 0, 0, 0, \frac{1}{10}\sqrt{15}e^{12}, \frac{1}{2}e^{13}, \frac{1}{5}\sqrt{5}e^{15},$ $\frac{1}{10}\sqrt{70}e^{25} + \frac{1}{5}\sqrt{15}e^{36}, \frac{1}{10}\sqrt{15}e^{17} + \frac{1}{2}\sqrt{2}e^{23}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{165}e^4 \otimes e_8$	{12389, 13578, 245, 479, 12389, 13578, 245, 479}
9531:134	$0, 0, 0, 0, -\frac{36}{193}\sqrt{5}e^{12}, \frac{144}{193}e^{13}, \frac{36}{193}e^{15},$ $\frac{18}{193}\sqrt{23}e^{25} + \frac{18}{193}\sqrt{57}e^{36}, \frac{36}{193}\sqrt{5}e^{17} + \frac{54}{193}\sqrt{5}e^{23}$	$(\frac{9}{193}, \frac{27}{193}, \frac{27}{193}, -\frac{135}{193}, \frac{36}{193}, \frac{36}{193}, \frac{45}{193}, \frac{63}{193}, \frac{54}{193})$ $+ \frac{36}{193}\sqrt{41}e^3 \otimes e_4$	{12456789, 1468, 2367, 3569, 12456789, 1468, 2367, 3569}
9531:134	$0, 0, 0, 0, \frac{36}{193}\sqrt{5}e^{12}, \frac{144}{193}e^{13}, \frac{36}{193}e^{15},$ $\frac{18}{193}\sqrt{23}e^{25} + \frac{18}{193}\sqrt{57}e^{36}, \frac{36}{193}\sqrt{5}e^{17} + \frac{54}{193}\sqrt{5}e^{23}$	$(\frac{9}{193}, \frac{27}{193}, \frac{27}{193}, -\frac{135}{193}, \frac{36}{193}, \frac{36}{193}, \frac{45}{193}, \frac{63}{193}, \frac{54}{193})$ $+ \frac{36}{193}\sqrt{41}e^3 \otimes e_4$	{12456789, 1468, 2367, 3569, 12456789, 1468, 2367, 3569}
9531:134	$0, 0, 0, 0, -\frac{1}{13}\sqrt{39}e^{12}, \frac{1}{13}\sqrt{65}e^{13}, \frac{2}{13}\sqrt{13}e^{15},$ $\frac{1}{13}\sqrt{39}e^{25} + \frac{1}{13}\sqrt{13}e^{36}, \frac{2}{13}\sqrt{26}e^{17} + \frac{1}{13}\sqrt{130}e^{23}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{13}\sqrt{286}e^4 \otimes e_9$	{12589, 1478, 234, 3579, 12589, 1478, 234, 3579}
9531:134	$0, 0, 0, 0, \frac{1}{13}\sqrt{39}e^{12}, \frac{1}{13}\sqrt{65}e^{13}, \frac{2}{13}\sqrt{13}e^{15},$ $\frac{1}{13}\sqrt{39}e^{25} + \frac{1}{13}\sqrt{13}e^{36}, \frac{2}{13}\sqrt{26}e^{17} + \frac{1}{13}\sqrt{130}e^{23}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{13}\sqrt{286}e^4 \otimes e_9$	{12589, 1478, 234, 3579, 12589, 1478, 234, 3579}
9531:134	$0, 0, 0, 0, -\frac{18}{193}\sqrt{62}e^{12}, \frac{54}{193}\sqrt{2}e^{13}, \frac{36}{193}e^{15},$ $\frac{18}{193}\sqrt{59}e^{25} + \frac{30}{193}e^{36}, \frac{36}{193}\sqrt{5}e^{17} + \frac{54}{193}\sqrt{5}e^{23}$	$(\frac{9}{193}, \frac{27}{193}, \frac{27}{193}, -\frac{135}{193}, \frac{36}{193}, \frac{36}{193}, \frac{45}{193}, \frac{63}{193}, \frac{54}{193})$ $+ \frac{36}{193}\sqrt{41}e^2 \otimes e_4$	{12368, 13456789, 2569, 467, 12368, 13456789, 2569, 467}
9531:134	$0, 0, 0, 0, \frac{18}{193}\sqrt{62}e^{12}, \frac{54}{193}\sqrt{2}e^{13}, \frac{36}{193}e^{15},$ $\frac{18}{193}\sqrt{59}e^{25} + \frac{30}{193}e^{36}, \frac{36}{193}\sqrt{5}e^{17} + \frac{54}{193}\sqrt{5}e^{23}$	$(\frac{9}{193}, \frac{27}{193}, \frac{27}{193}, -\frac{135}{193}, \frac{36}{193}, \frac{36}{193}, \frac{45}{193}, \frac{63}{193}, \frac{54}{193})$ $+ \frac{36}{193}\sqrt{41}e^2 \otimes e_4$	{12368, 13456789, 2569, 467, 12368, 13456789, 2569, 467}
9531:136	$0, 0, 0, 0, \frac{39}{1289}\sqrt{371}e^{12}, \frac{156}{1289}\sqrt{82}e^{13}, \frac{78}{1289}\sqrt{127}e^{15},$ $\frac{39}{1289}\sqrt{465}e^{16} + \frac{78}{1289}\sqrt{37}e^{25}, \frac{39}{1289}\sqrt{263}e^{17} + \frac{234}{1289}\sqrt{6}e^{34}$	$(-\frac{117}{1289}, \frac{312}{1289}, \frac{741}{1289}, -\frac{780}{1289}, \frac{195}{1289}, \frac{624}{1289}, \frac{78}{1289}, \frac{507}{1289}, -\frac{39}{1289})$ $+ \frac{39}{1289}\sqrt{2177}e^3 \otimes e_4$	{146, 23678}
9531:136	$0, 0, 0, 0, \frac{15}{682}\sqrt{86}e^{12}, \frac{15}{682}\sqrt{194}e^{13}, \frac{15}{341}\sqrt{133}e^{15},$ $\frac{15}{341}\sqrt{269}e^{16} + \frac{15}{341}\sqrt{182}e^{25}, \frac{15}{682}\sqrt{610}e^{17} + \frac{15}{341}\sqrt{262}e^{34}$	$(\frac{45}{341}, -\frac{30}{341}, -\frac{105}{341}, \frac{210}{341}, \frac{15}{341}, -\frac{60}{341}, \frac{60}{341}, -\frac{15}{341}, \frac{105}{341})$ $+ \frac{15}{682}\sqrt{2326}e^4 \otimes e_8$	{1245679, 35689}
9531:136	$0, 0, 0, 0, \frac{135}{5501}\sqrt{226}e^{12}, \frac{243}{5501}\sqrt{58}e^{13}, \frac{54}{5501}\sqrt{526}e^{15},$ $\frac{27}{5501}\sqrt{4890}e^{16} + \frac{54}{5501}\sqrt{1149}e^{25}, \frac{54}{5501}\sqrt{910}e^{17} + \frac{54}{5501}\sqrt{1005}e^{34}$	$(-\frac{243}{5501}, \frac{378}{5501}, \frac{999}{5501}, -\frac{1350}{5501}, \frac{135}{5501}, \frac{756}{5501}, -\frac{108}{5501}, \frac{513}{5501}, -\frac{351}{5501})$ $+ \frac{27}{5501}\sqrt{9682}e^2 \otimes e_9$	{1234678, 135689}
9531:137	$0, 0, 0, 0, -\frac{36}{817}\sqrt{365}e^{12}, \frac{108}{817}\sqrt{7}e^{13}, \frac{36}{817}\sqrt{79}e^{15},$ $\frac{36}{817}\sqrt{407}e^{25} + \frac{360}{817}e^{36}, \frac{36}{817}\sqrt{10}e^{17} + \frac{540}{817}e^{24}$	$(-\frac{126}{817}, \frac{270}{817}, \frac{270}{817}, -\frac{378}{817}, \frac{144}{817}, \frac{144}{817}, \frac{18}{817}, \frac{414}{817}, -\frac{108}{817})$ $+ \frac{36}{817}\sqrt{710}e^2 \otimes e_4$	{1345678, 14578, 235, 256, 1345678, 14578, 235, 256}
9531:137	$0, 0, 0, 0, \frac{36}{817}\sqrt{365}e^{12}, \frac{108}{817}\sqrt{7}e^{13}, \frac{36}{817}\sqrt{79}e^{15},$ $\frac{36}{817}\sqrt{407}e^{25} + \frac{360}{817}e^{36}, \frac{36}{817}\sqrt{10}e^{17} + \frac{540}{817}e^{24}$	$(-\frac{126}{817}, \frac{270}{817}, \frac{270}{817}, -\frac{378}{817}, \frac{144}{817}, \frac{144}{817}, \frac{18}{817}, \frac{414}{817}, -\frac{108}{817})$ $+ \frac{36}{817}\sqrt{710}e^2 \otimes e_4$	{1345678, 14578, 235, 256, 1345678, 14578, 235, 256}
9531:137	$0, 0, 0, 0, -\frac{120}{877}\sqrt{10}e^{12}, \frac{48}{877}\sqrt{83}e^{13}, \frac{24}{877}e^{15},$ $\frac{24}{877}\sqrt{218}e^{25} + \frac{24}{877}\sqrt{365}e^{36}, \frac{24}{877}\sqrt{130}e^{17} + \frac{216}{877}\sqrt{5}e^{24}$	$(-\frac{96}{877}, \frac{180}{877}, \frac{180}{877}, -\frac{288}{877}, \frac{84}{877}, \frac{84}{877}, -\frac{12}{877}, \frac{264}{877}, -\frac{108}{877})$ $+ \frac{48}{877}\sqrt{190}e^3 \otimes e_9$	{125689, 1378, 2346, 4579, 125689, 1378, 2346, 4579}
9531:137	$0, 0, 0, 0, \frac{120}{877}\sqrt{10}e^{12}, \frac{48}{877}\sqrt{83}e^{13}, \frac{24}{877}e^{15},$ $\frac{24}{877}\sqrt{218}e^{25} + \frac{24}{877}\sqrt{365}e^{36}, \frac{24}{877}\sqrt{130}e^{17} + \frac{216}{877}\sqrt{5}e^{24}$	$(-\frac{96}{877}, \frac{180}{877}, \frac{180}{877}, -\frac{288}{877}, \frac{84}{877}, \frac{84}{877}, -\frac{12}{877}, \frac{264}{877}, -\frac{108}{877})$ $+ \frac{48}{877}\sqrt{190}e^3 \otimes e_9$	{125689, 1378, 2346, 4579, 125689, 1378, 2346, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:139	$0, 0, 0, 0, \frac{12}{287}\sqrt{318}e^{12}, \frac{36}{287}\sqrt{15}e^{13}, \frac{12}{287}\sqrt{87}e^{25},$ $\frac{12}{287}\sqrt{381}e^{15} + \frac{12}{287}\sqrt{87}e^{36}, \frac{108}{287}\sqrt{3}e^{14} + \frac{12}{287}\sqrt{15}e^{27}$	$(\frac{90}{287}, -\frac{6}{41}, \frac{24}{287}, -\frac{18}{41}, \frac{48}{287}, \frac{114}{287}, \frac{6}{287}, \frac{138}{287}, -\frac{36}{287})$ $-\frac{12}{287}\sqrt{741}e^1 \otimes e_4$	{135, 156, 2345678, 24578}
9531:139	$0, 0, 0, 0, \frac{12}{287}\sqrt{318}e^{12}, \frac{36}{287}\sqrt{15}e^{13}, \frac{12}{287}\sqrt{87}e^{25},$ $\frac{12}{287}\sqrt{381}e^{15} + \frac{12}{287}\sqrt{87}e^{36}, \frac{108}{287}\sqrt{3}e^{14} + \frac{12}{287}\sqrt{15}e^{27}$	$(\frac{90}{287}, -\frac{6}{41}, \frac{24}{287}, -\frac{18}{41}, \frac{48}{287}, \frac{114}{287}, \frac{6}{287}, \frac{138}{287}, -\frac{36}{287})$ $+\frac{12}{287}\sqrt{741}e^1 \otimes e_4$	{135, 156, 2345678, 24578}
9531:139	$0, 0, 0, 0, \frac{28}{3663}\sqrt{1254}e^{12}, \frac{28}{3663}\sqrt{1802}e^{13}, \frac{28}{1221}\sqrt{79}e^{25},$ $\frac{56}{3663}\sqrt{417}e^{15} + \frac{28}{3663}\sqrt{1777}e^{36}, \frac{28}{1221}\sqrt{131}e^{14} + \frac{28}{3663}\sqrt{1246}e^{27}$	$(\frac{406}{3663}, -\frac{238}{3663}, \frac{28}{1221}, -\frac{238}{1221}, \frac{56}{1221}, \frac{490}{3663}, -\frac{70}{3663}, \frac{574}{3663}, -\frac{28}{333})$ $+\frac{28}{3663}\sqrt{3198}e^3 \otimes e_9$	{125689, 4579}
9531:141	$0, 0, 0, 0, \frac{98}{3819}e^{12}, \frac{98}{3819}\sqrt{445}e^{13}, \frac{49}{3819}\sqrt{1770}e^{15}, \frac{98}{3819}\sqrt{1135}e^{16},$ $\frac{98}{3819}\sqrt{631}e^{17} + \frac{245}{3819}\sqrt{158}e^{24} + \frac{98}{3819}\sqrt{413}e^{36}$	$(-\frac{490}{3819}, \frac{98}{201}, \frac{147}{1273}, -\frac{490}{1273}, \frac{1372}{3819}, -\frac{49}{3819}, \frac{294}{1273}, -\frac{539}{3819}, \frac{392}{3819})$ $+\frac{98}{3819}\sqrt{1657}e^2 \otimes e_8$	{138, 345689}
9531:141	$0, 0, 0, 0, \frac{2}{107}\sqrt{271}e^{12}, \frac{30}{107}e^{13}, \frac{2}{107}\sqrt{210}e^{15}, \frac{2}{107}\sqrt{426}e^{16},$ $\frac{2}{107}\sqrt{173}e^{17} + \frac{4}{107}\sqrt{89}e^{24} + \frac{28}{107}e^{36}$	$(\frac{6}{107}, -\frac{16}{107}, -\frac{2}{107}, \frac{18}{107}, -\frac{10}{107}, \frac{4}{107}, -\frac{4}{107}, \frac{10}{107}, \frac{2}{107})$ $+\frac{2}{107}\sqrt{407}e^4 \otimes e_8$	{138, 459}
9531:141	$0, 0, 0, 0, \frac{65}{3781}\sqrt{4286}e^{12}, \frac{65}{3781}\sqrt{1702}e^{13}, \frac{195}{3781}\sqrt{190}e^{15},$ $\frac{65}{3781}\sqrt{2234}e^{16}, \frac{260}{3781}\sqrt{19}e^{17} + \frac{520}{3781}\sqrt{26}e^{24} + \frac{130}{3781}\sqrt{399}e^{36}$	$(-\frac{585}{3781}, \frac{130}{199}, \frac{650}{3781}, -\frac{1755}{3781}, \frac{1885}{3781}, \frac{65}{3781}, \frac{1300}{3781}, -\frac{520}{3781}, \frac{715}{3781})$ $+\frac{260}{3781}\sqrt{398}e^2 \otimes e_4$	{123678, 127}
9531:142	$0, 0, 0, 0, \frac{158}{6219}\sqrt{1135}e^{16}, \frac{158}{6219}\sqrt{645}e^{12}, \frac{158}{2073}\sqrt{6}e^{13}, \frac{79}{6219}\sqrt{658}e^{25},$ $\frac{158}{6219}\sqrt{434}e^{14} + \frac{79}{2073}\sqrt{263}e^{27} + \frac{158}{6219}\sqrt{627}e^{36}$	$(-\frac{2054}{6219}, \frac{158}{691}, \frac{237}{691}, \frac{474}{691}, -\frac{632}{6219}, \frac{79}{6219}, \frac{790}{6219}, -\frac{1975}{6219}, \frac{2212}{6219})$ $+\frac{316}{6219}\sqrt{654}e^4 \otimes e_8$	{146, 4579}
9531:142	$0, 0, 0, 0, \frac{34}{747}\sqrt{33}e^{12}, \frac{68}{747}\sqrt{10}e^{13}, \frac{17}{747}\sqrt{498}e^{25}, \frac{34}{747}\sqrt{165}e^{16},$ $\frac{17}{747}\sqrt{382}e^{14} + \frac{34}{747}\sqrt{165}e^{27} + \frac{34}{747}\sqrt{59}e^{36}$	$(-\frac{170}{747}, \frac{34}{249}, \frac{17}{83}, \frac{34}{83}, -\frac{68}{747}, -\frac{17}{747}, \frac{34}{747}, -\frac{187}{747}, \frac{136}{747})$ $+\frac{68}{747}\sqrt{79}e^2 \otimes e_8$	{1267, 259}
9531:142	$0, 0, 0, 0, \frac{71}{6633}\sqrt{1758}e^{12}, \frac{2059}{6633}\sqrt{6}e^{13}, \frac{71}{6633}\sqrt{754}e^{25},$ $\frac{71}{6633}\sqrt{5122}e^{16}, \frac{71}{603}\sqrt{30}e^{14} + \frac{2059}{6633}\sqrt{1454}e^{27} + \frac{142}{6633}\sqrt{57}e^{36}$	$(\frac{2485}{6633}, -\frac{284}{2211}, -\frac{142}{737}, -\frac{284}{737}, \frac{1633}{6633}, \frac{1207}{6633}, \frac{71}{603}, \frac{3692}{6633}, -\frac{71}{6633})$ $+\frac{142}{6633}\sqrt{2751}e^1 \otimes e_4$	{12378, 1267}
9531:143	$0, 0, 0, 0, \frac{238}{331}e^{12}, \frac{34}{331}e^{34}, \frac{17}{331}\sqrt{38}e^{15}, \frac{238}{331}e^{36},$ $\frac{34}{331}\sqrt{13}e^{17} + \frac{51}{331}\sqrt{14}e^{23} + \frac{34}{331}\sqrt{13}e^{46}$	$(-\frac{34}{331}, \frac{170}{331}, -\frac{102}{331}, \frac{85}{331}, \frac{136}{331}, -\frac{17}{331}, \frac{102}{331}, -\frac{119}{331}, \frac{68}{331})$ $+\frac{34}{331}\sqrt{137}e^2 \otimes e_8$	{1568, 389}
9531:143	$0, 0, 0, 0, \frac{6}{61}\sqrt{10}e^{12}, \frac{8}{61}\sqrt{3}e^{34}, \frac{1}{61}\sqrt{366}e^{15}, \frac{1}{61}\sqrt{546}e^{36},$ $\frac{1}{61}\sqrt{426}e^{17} + \frac{2}{61}\sqrt{102}e^{23} + \frac{2}{61}\sqrt{33}e^{46}$	$(-\frac{3}{61}, \frac{12}{61}, -\frac{9}{61}, \frac{6}{61}, \frac{9}{61}, -\frac{3}{61}, \frac{6}{61}, -\frac{12}{61}, \frac{3}{61})$ $+\frac{1}{61}\sqrt{930}e^1 \otimes e_8$	{159, 348}
9531:144	$0, 0, 0, 0, \frac{71}{6029}\sqrt{1362}e^{12}, \frac{426}{6029}\sqrt{115}e^{13}, \frac{142}{6029}\sqrt{70}e^{25},$ $\frac{71}{6029}\sqrt{1790}e^{15} + \frac{213}{6029}\sqrt{310}e^{23}, \frac{142}{6029}\sqrt{251}e^{27} + \frac{284}{6029}\sqrt{214}e^{36}$	$(\frac{426}{6029}, \frac{568}{6029}, \frac{852}{6029}, -\frac{4189}{6029}, \frac{994}{6029}, \frac{1278}{6029}, \frac{1562}{6029}, \frac{1420}{6029}, \frac{2130}{6029})$ $+\frac{71}{6029}\sqrt{10218}e^3 \otimes e_4$	{1469, 457}
9531:144	$0, 0, 0, 0, \frac{6}{47}\sqrt{34}e^{12}, \frac{6}{47}\sqrt{17}e^{13}, \frac{2}{47}\sqrt{34}e^{25},$ $\frac{34}{47}e^{15} + \frac{2}{47}\sqrt{255}e^{23}, \frac{2}{47}\sqrt{17}e^{27} + \frac{4}{47}\sqrt{34}e^{36}$	$(\frac{3}{47}, \frac{4}{47}, \frac{6}{47}, -\frac{31}{47}, \frac{7}{47}, \frac{9}{47}, \frac{11}{47}, \frac{10}{47}, \frac{15}{47})$ $+\frac{2}{47}\sqrt{663}e^1 \otimes e_4$	{123789, 234568}
9531:144	$0, 0, 0, 0, \frac{69}{6269}\sqrt{2758}e^{12}, \frac{69}{6269}\sqrt{466}e^{13}, \frac{69}{6269}\sqrt{3946}e^{25},$ $\frac{138}{6269}\sqrt{265}e^{15} + \frac{276}{6269}\sqrt{110}e^{23}, \frac{207}{6269}\sqrt{330}e^{27} + \frac{69}{6269}\sqrt{890}e^{36}$	$(\frac{414}{6269}, \frac{552}{6269}, \frac{828}{6269}, -\frac{4209}{6269}, \frac{966}{6269}, \frac{1242}{6269}, \frac{1518}{6269}, \frac{1380}{6269}, \frac{2070}{6269})$ $+\frac{397}{6269}\sqrt{62}e^2 \otimes e_4$	{13456789, 348}
9531:145	$0, 0, 0, 0, \frac{62}{1701}\sqrt{257}e^{12}, \frac{31}{1701}\sqrt{341}e^{13}, \frac{31}{1701}\sqrt{1374}e^{15},$ $\frac{1054}{1701}e^{14} + \frac{31}{1701}\sqrt{95}e^{25}, \frac{31}{1701}\sqrt{1133}e^{17} + \frac{31}{1701}\sqrt{210}e^{36}$	$(\frac{341}{1701}, -\frac{310}{1701}, \frac{62}{567}, -\frac{620}{1701}, \frac{31}{1701}, \frac{527}{1701}, \frac{124}{567}, -\frac{31}{189}, \frac{713}{1701})$ $+\frac{31}{1701}\sqrt{2899}e^1 \otimes e_4$	{2345679, 24579}
9531:145	$0, 0, 0, 0, \frac{66}{6533}\sqrt{406}e^{12}, \frac{33}{6533}\sqrt{6530}e^{13}, \frac{33}{6533}\sqrt{4634}e^{15},$ $\frac{66}{6533}\sqrt{1074}e^{14} + \frac{66}{6533}\sqrt{1117}e^{25}, \frac{33}{6533}\sqrt{4562}e^{17} + \frac{66}{6533}\sqrt{1469}e^{36}$	$(\frac{693}{6533}, -\frac{726}{6533}, \frac{330}{6533}, -\frac{1452}{6533}, -\frac{33}{6533}, \frac{1023}{6533}, \frac{660}{6533}, -\frac{759}{6533}, \frac{1353}{6533})$ $+\frac{33}{6533}\sqrt{11674}e^3 \otimes e_8$	{1234579, 2478}
9531:145	$0, 0, 0, 0, \frac{27}{1757}\sqrt{1294}e^{12}, \frac{243}{1757}\sqrt{3}e^{13}, \frac{27}{1757}\sqrt{97}e^{15},$ $\frac{135}{1757}\sqrt{39}e^{14} + \frac{34}{1757}\sqrt{366}e^{25}, \frac{27}{1757}\sqrt{34}e^{17} + \frac{54}{1757}\sqrt{222}e^{36}$	$(-\frac{243}{1757}, \frac{54}{251}, -\frac{54}{1757}, \frac{108}{251}, \frac{135}{1757}, -\frac{297}{1757}, -\frac{108}{1757}, \frac{513}{1757}, -\frac{351}{1757})$ $+\frac{27}{1757}\sqrt{2977}e^2 \otimes e_9$	{1234678, 12478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:145	$0, 0, 0, 0, \frac{38}{833}\sqrt{83e^{12}} + \frac{76}{833}\sqrt{19e^{13}} + \frac{38}{833}\sqrt{14e^{15}},$ $\frac{38}{833}\sqrt{301e^{14}} + \frac{76}{833}\sqrt{13e^{25}} + \frac{38}{833}\sqrt{155e^{17}} + \frac{38}{833}\sqrt{226e^{36}}$	$(-\frac{152}{833}, \frac{38}{119}, -\frac{19}{833}, \frac{76}{119}, \frac{114}{833}, -\frac{171}{833}, -\frac{38}{833}, \frac{380}{833}, -\frac{190}{833})$ $+ \frac{114}{833}\sqrt{78e^4} \otimes e_9$	{2379, 2679}
9531:146	$0, 0, 0, 0, \frac{19}{866}\sqrt{158e^{12}} + \frac{19}{433}\sqrt{133e^{13}} + \frac{19}{433}\sqrt{31e^{25}},$ $\frac{19}{866}\sqrt{390e^{15}} + \frac{19}{433}\sqrt{334e^{24}} + \frac{19}{866}\sqrt{602e^{27}} + \frac{57}{866}\sqrt{106e^{36}}$	$(\frac{133}{433}, -\frac{76}{433}, -\frac{114}{433}, \frac{266}{433}, \frac{57}{433}, \frac{19}{433}, -\frac{19}{433}, \frac{190}{433}, -\frac{95}{433})$ $+ \frac{323}{866}\sqrt{10e^4} \otimes e_9$	{1379, 1679}
9531:146	$0, 0, 0, 0, \frac{62}{3381}\sqrt{1231e^{12}} + \frac{62}{3381}\sqrt{310e^{13}} + \frac{62}{483}\sqrt{30e^{25}},$ $\frac{62}{3381}\sqrt{170e^{15}} + \frac{62}{3381}\sqrt{1199e^{24}} + \frac{62}{1127}\sqrt{133e^{27}} + \frac{682}{3381}\sqrt{2e^{36}}$	$(-\frac{620}{3381}, \frac{682}{3381}, \frac{341}{1127}, -\frac{1240}{3381}, \frac{62}{3381}, \frac{403}{3381}, \frac{248}{1127}, -\frac{186}{1127}, \frac{62}{147})$ $+ \frac{62}{3381}\sqrt{2910e^2} \otimes e_4$	{1345679, 14579, 34, 46}
9531:146	$0, 0, 0, 0, \frac{62}{3381}\sqrt{1231e^{12}} + \frac{62}{3381}\sqrt{310e^{13}} + \frac{62}{483}\sqrt{30e^{25}},$ $\frac{62}{3381}\sqrt{170e^{15}} + \frac{62}{3381}\sqrt{1199e^{24}} + \frac{62}{1127}\sqrt{133e^{27}} + \frac{682}{3381}\sqrt{2e^{36}}$	$(-\frac{620}{3381}, \frac{682}{3381}, \frac{341}{1127}, -\frac{1240}{3381}, \frac{62}{3381}, \frac{403}{3381}, \frac{248}{1127}, -\frac{186}{1127}, \frac{62}{147})$ $- \frac{62}{3381}\sqrt{2910e^2} \otimes e_4$	{1345679, 14579, 34, 46}
9531:146	$0, 0, 0, 0, \frac{53}{6877}\sqrt{2242e^{12}} + \frac{53}{6877}\sqrt{4822e^{13}} + \frac{53}{6877}\sqrt{1994e^{25}},$ $\frac{159}{6877}\sqrt{170e^{15}} + \frac{1272}{6877}\sqrt{11e^{24}} + \frac{742}{6877}\sqrt{13e^{27}} + \frac{53}{6877}\sqrt{5434e^{36}}$	$(-\frac{1113}{6877}, \frac{1166}{6877}, \frac{1749}{6877}, -\frac{2226}{6877}, \frac{53}{6877}, \frac{636}{6877}, \frac{53}{299}, -\frac{1060}{6877}, \frac{2385}{6877})$ $+ \frac{53}{6877}\sqrt{11870e^3} \otimes e_8$	{1234579, 2346}
9531:147	$0, 0, 0, 0, \frac{64}{3387}\sqrt{678e^{12}} + \frac{128}{3387}\sqrt{71e^{13}} + \frac{64}{3387}\sqrt{515e^{25}},$ $\frac{64}{3387}\sqrt{1010e^{15}} + \frac{64}{3387}\sqrt{1371e^{34}} + \frac{64}{1129}\sqrt{155e^{16}} + \frac{64}{3387}\sqrt{890e^{27}}$	$(\frac{544}{3387}, -\frac{64}{1129}, \frac{1120}{3387}, \frac{672}{1129}, \frac{352}{3387}, -\frac{192}{1129}, \frac{160}{3387}, \frac{896}{3387}, -\frac{32}{3387})$ $+ \frac{128}{3387}\sqrt{713e^4} \otimes e_9$	{123589, 2478}
9531:147	$0, 0, 0, 0, \frac{88}{3261}\sqrt{534e^{12}} + \frac{352}{3261}\sqrt{93e^{13}} + \frac{88}{3261}\sqrt{377e^{25}},$ $\frac{440}{3261}\sqrt{22e^{15}} + \frac{88}{3261}\sqrt{119e^{34}} + \frac{88}{3261}\sqrt{485e^{16}} + \frac{88}{3261}\sqrt{210e^{27}}$	$(-\frac{308}{3261}, \frac{176}{1087}, \frac{1892}{3261}, -\frac{660}{1087}, \frac{220}{3261}, \frac{528}{1087}, \frac{748}{3261}, -\frac{88}{3261}, \frac{1276}{3261})$ $+ \frac{176}{3261}\sqrt{670e^3} \otimes e_4$	{146, 35679}
9531:148	$0, 0, 0, 0, \frac{13}{157}\sqrt{34e^{12}} + \frac{26}{157}\sqrt{10e^{13}} + \frac{13}{157}\sqrt{42e^{15}} + \frac{52}{471}\sqrt{39e^{36}},$ $\frac{13}{471}\sqrt{42e^{17}} + \frac{13}{471}\sqrt{258e^{25}} + \frac{13}{157}\sqrt{106e^{34}}$	$(\frac{13}{157}, \frac{26}{157}, -\frac{39}{157}, \frac{104}{157}, \frac{39}{157}, -\frac{26}{157}, \frac{52}{157}, -\frac{65}{157}, \frac{65}{157})$ $+ \frac{13}{471}\sqrt{2310e^4} \otimes e_8$	{13456, 389}
9531:148	$0, 0, 0, 0, \frac{94}{5557}\sqrt{997e^{12}} + \frac{235}{5557}\sqrt{66e^{13}} + \frac{47}{5557}\sqrt{2114e^{15}},$ $\frac{94}{5557}\sqrt{1162e^{36}} + \frac{2350}{5557}e^{17} + \frac{47}{5557}\sqrt{6186e^{25}} + \frac{47}{5557}\sqrt{2830e^{34}}$	$(\frac{235}{5557}, \frac{470}{5557}, -\frac{987}{5557}, \frac{2162}{5557}, \frac{705}{5557}, \frac{752}{5557}, \frac{940}{5557}, -\frac{1739}{5557}, \frac{1175}{5557})$ $+ \frac{94}{5557}\sqrt{2405e^2} \otimes e_8$	{1345789, 156789}
9531:148	$0, 0, 0, 0, \frac{118}{5293}\sqrt{359e^{12}} + \frac{59}{5293}\sqrt{6590e^{13}} + \frac{531}{5293}\sqrt{34e^{15}},$ $\frac{118}{5293}\sqrt{1222e^{36}} + \frac{118}{5293}\sqrt{229e^{17}} + \frac{413}{5293}\sqrt{62e^{25}} + \frac{59}{5293}\sqrt{4078e^{34}}$	$(-\frac{59}{5293}, -\frac{118}{5293}, \frac{1593}{5293}, -\frac{1888}{5293}, -\frac{177}{5293}, \frac{1534}{5293}, -\frac{236}{5293}, \frac{3127}{5293}, -\frac{295}{5293})$ $+ \frac{118}{5293}\sqrt{2305e^3} \otimes e_4$	{138, 1468}
9531:149	$0, 0, 0, 0, \frac{63}{5917}\sqrt{2882e^{12}} + \frac{63}{5917}\sqrt{6890e^{13}} + \frac{126}{5917}\sqrt{313e^{25}},$ $\frac{126}{5917}\sqrt{1318e^{36}} + \frac{126}{5917}\sqrt{493e^{15}} + \frac{126}{5917}\sqrt{885e^{27}} + \frac{63}{5917}\sqrt{3982e^{34}}$	$(-\frac{126}{5917}, -\frac{63}{5917}, \frac{1827}{5917}, -\frac{2142}{5917}, -\frac{189}{5917}, \frac{1701}{5917}, -\frac{252}{5917}, \frac{3528}{5917}, -\frac{315}{5917})$ $+ \frac{315}{5917}\sqrt{402e^3} \otimes e_4$	{138, 1468}
9531:149	$0, 0, 0, 0, \frac{18}{253}\sqrt{19e^{12}} + \frac{18}{253}\sqrt{17e^{13}} + \frac{9}{253}\sqrt{202e^{25}},$ $\frac{9}{253}e^{15} + \frac{9}{253}\sqrt{210e^{27}} + \frac{9}{253}e^{34}$	$(\frac{18}{253}, \frac{9}{253}, -\frac{45}{253}, \frac{90}{253}, \frac{27}{253}, -\frac{27}{253}, \frac{36}{253}, -\frac{72}{253}, \frac{45}{253})$ $+ \frac{9}{253}\sqrt{426e^2} \otimes e_8$	{1345789, 156789}
9531:149	$0, 0, 0, 0, \frac{54}{667}\sqrt{37e^{12}} + \frac{270}{667}e^{13} + \frac{54}{667}\sqrt{22e^{25}} + \frac{81}{667}\sqrt{34e^{36}},$ $\frac{54}{667}\sqrt{5e^{15}} + \frac{270}{667}e^{27} + \frac{108}{667}\sqrt{26e^{34}}$	$(\frac{108}{667}, \frac{54}{667}, -\frac{189}{667}, \frac{459}{667}, \frac{162}{667}, -\frac{81}{667}, \frac{216}{667}, -\frac{270}{667}, \frac{270}{667})$ $+ \frac{27}{667}\sqrt{1090e^4} \otimes e_8$	{2568, 389}
9531:150	$0, 0, 0, 0, \frac{47}{5605}\sqrt{878e^{12}} + \frac{94}{5605}\sqrt{1141e^{13}} + \frac{47}{5605}\sqrt{1286e^{15}},$ $\frac{94}{5605}\sqrt{631e^{14}} + \frac{47}{5605}\sqrt{4578e^{36}} + \frac{47}{5605}\sqrt{2206e^{17}} + \frac{47}{5605}\sqrt{70e^{25}}$	$(-\frac{47}{1121}, -\frac{94}{1121}, \frac{1034}{5605}, \frac{2068}{5605}, -\frac{141}{1121}, \frac{799}{5605}, -\frac{188}{1121}, \frac{1833}{5605}, -\frac{235}{1121})$ $+ \frac{47}{5605}\sqrt{9598e^3} \otimes e_9$	{1234578, 2479}
9531:150	$0, 0, 0, 0, \frac{15}{34}e^{12} + \frac{1}{17}\sqrt{5e^{13}} + \frac{1}{34}\sqrt{410e^{15}},$ $\frac{5}{34}\sqrt{14e^{14}} + \frac{1}{34}\sqrt{145e^{36}} + \frac{1}{34}\sqrt{335e^{17}} + \frac{1}{17}\sqrt{55e^{25}}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{595e^1} \otimes e_4$	{2345679, 24579}
9531:150	$0, 0, 0, 0, \frac{15}{34}e^{12} + \frac{1}{17}\sqrt{5e^{13}} + \frac{1}{34}\sqrt{185e^{15}},$ $\frac{7}{34}\sqrt{5e^{14}} + \frac{1}{34}\sqrt{145e^{36}} + \frac{1}{17}\sqrt{65e^{17}} + \frac{5}{34}\sqrt{15e^{25}}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{595e^2} \otimes e_8$	{135789, 156789}
9531:150	$0, 0, 0, 0, \frac{32}{653}\sqrt{89e^{12}} + \frac{128}{653}e^{13} + \frac{32}{653}\sqrt{146e^{15}},$ $\frac{32}{653}\sqrt{301e^{14}} + \frac{16}{653}\sqrt{282e^{36}} + \frac{16}{653}\sqrt{286e^{17}} + \frac{16}{653}\sqrt{970e^{25}}$	$(-\frac{32}{653}, -\frac{64}{653}, \frac{176}{653}, \frac{352}{653}, -\frac{96}{653}, \frac{144}{653}, -\frac{128}{653}, \frac{320}{653}, -\frac{160}{653})$ $+ \frac{112}{653}\sqrt{46e^4} \otimes e_9$	{2379, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:151	$0, 0, 0, 0, \frac{5}{218}\sqrt{186e^{12}}, \frac{5}{109}\sqrt{70e^{13}}, \frac{5}{218}\sqrt{442e^{15}},$ $\frac{5}{218}\sqrt{538e^{16}} + \frac{15}{218}\sqrt{2e^{34}}, \frac{15}{109}\sqrt{14e^{17}} + \frac{5}{218}\sqrt{606e^{25}}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{25}{109}, \frac{10}{109}, \frac{15}{109}, -\frac{20}{109}, \frac{20}{109}, -\frac{15}{109}, \frac{25}{109})$ $+ \frac{15}{218}\sqrt{86e^2} \otimes e_8$	{135789, 3678}
9531:151	$0, 0, 0, 0, \frac{13}{361}\sqrt{399e^{12}}, \frac{26}{361}\sqrt{262e^{13}}, \frac{26}{361}\sqrt{193e^{15}},$ $\frac{13}{361}\sqrt{817e^{16}} + \frac{78}{361}\sqrt{17e^{34}}, \frac{39}{361}\sqrt{71e^{17}} + \frac{52}{361}\sqrt{30e^{25}}$	$(-\frac{13}{361}, -\frac{26}{361}, \frac{143}{361}, -\frac{26}{361}, -\frac{39}{361}, \frac{130}{361}, \frac{181}{361}, -\frac{52}{361}, \frac{117}{361}, -\frac{65}{361})$ $+ \frac{39}{361}\sqrt{77e^3} \otimes e_4$	{146, 459}
9531:151	$0, 0, 0, 0, \frac{35}{1831}\sqrt{354e^{12}}, \frac{70}{1831}\sqrt{262e^{13}}, \frac{70}{1831}\sqrt{142e^{15}},$ $\frac{35}{1831}\sqrt{22e^{16}} + \frac{420}{1831}\sqrt{6e^{34}}, \frac{840}{1831}e^{17} + \frac{35}{1831}\sqrt{1218e^{25}}$	$(-\frac{70}{1831}, -\frac{140}{1831}, \frac{875}{1831}, -\frac{140}{1831}, \frac{210}{1831}, \frac{805}{1831}, \frac{1831}{1831}, -\frac{280}{1831}, \frac{735}{1831}, -\frac{350}{1831})$ $+ \frac{315}{1831}\sqrt{38e^3} \otimes e_9$	{123578, 279}
9531:151	$0, 0, 0, 0, \frac{3}{583}\sqrt{1410e^{12}}, \frac{6}{583}\sqrt{915e^{13}}, \frac{3}{583}\sqrt{2874e^{15}},$ $\frac{6}{583}\sqrt{915e^{16}} + \frac{3}{583}\sqrt{3606e^{34}}, \frac{15}{583}\sqrt{138e^{17}} + \frac{3}{583}\sqrt{942e^{25}}$	$(-\frac{9}{583}, -\frac{18}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{27}{583}, \frac{60}{583}, \frac{583}{583}, -\frac{36}{583}, \frac{51}{583}, -\frac{45}{583})$ $+ \frac{3}{583}\sqrt{3138e^4} \otimes e_9$	{235789, 25679}
9531:152	$0, 0, 0, 0, \frac{46}{2825}\sqrt{67e^{12}}, \frac{46}{2825}\sqrt{1166e^{13}}, \frac{874}{2825}\sqrt{2e^{15}},$ $\frac{46}{2825}\sqrt{703e^{24}} + \frac{644}{2825}\sqrt{6e^{36}}, \frac{92}{2825}\sqrt{29e^{17}} + \frac{46}{2825}\sqrt{1378e^{25}}$	$(-\frac{23}{565}, -\frac{46}{565}, \frac{483}{2825}, \frac{1081}{2825}, -\frac{69}{565}, \frac{368}{2825}, -\frac{92}{565}, \frac{851}{2825}, -\frac{23}{113})$ $+ \frac{46}{2825}\sqrt{2447e^3} \otimes e_9$	{1234578, 279}
9531:152	$0, 0, 0, 0, \frac{100}{2597}\sqrt{399e^{12}}, \frac{500}{2597}e^{13}, \frac{100}{2597}\sqrt{137e^{15}},$ $\frac{50}{2597}\sqrt{1211e^{24}} + \frac{50}{2597}\sqrt{493e^{36}}, \frac{300}{2597}\sqrt{30e^{17}} + \frac{100}{2597}\sqrt{453e^{25}}$	$(\frac{200}{2597}, \frac{400}{2597}, -\frac{325}{2597}, -\frac{850}{2597}, \frac{600}{2597}, -\frac{125}{2597}, \frac{800}{2597}, -\frac{450}{2597}, \frac{1000}{2597})$ $+ \frac{50}{2597}\sqrt{2329e^2} \otimes e_4$	{3467, 47}
9531:152	$0, 0, 0, 0, \frac{238}{699}\sqrt{3e^{12}}, \frac{34}{699}\sqrt{17e^{13}}, \frac{34}{699}\sqrt{31e^{15}},$ $\frac{34}{699}\sqrt{291e^{24}} + \frac{187}{699}\sqrt{2e^{36}}, \frac{17}{699}\sqrt{1106e^{17}} + \frac{17}{699}\sqrt{134e^{25}}$	$(-\frac{34}{699}, -\frac{68}{699}, \frac{187}{699}, \frac{136}{233}, -\frac{34}{233}, \frac{51}{233}, -\frac{136}{699}, \frac{340}{699}, -\frac{170}{699})$ $- \frac{17}{233}\sqrt{262e^4} \otimes e_9$	{134678, 1478, 3579, 5679}
9531:152	$0, 0, 0, 0, \frac{238}{699}\sqrt{3e^{12}}, \frac{34}{699}\sqrt{17e^{13}}, \frac{34}{699}\sqrt{31e^{15}},$ $\frac{34}{699}\sqrt{291e^{24}} + \frac{187}{699}\sqrt{2e^{36}}, \frac{17}{699}\sqrt{1106e^{17}} + \frac{17}{699}\sqrt{134e^{25}}$	$(-\frac{34}{699}, -\frac{68}{699}, \frac{187}{699}, \frac{136}{233}, -\frac{34}{233}, \frac{51}{233}, -\frac{136}{699}, \frac{340}{699}, -\frac{170}{699})$ $+ \frac{17}{233}\sqrt{262e^4} \otimes e_9$	{134678, 1478, 3579, 5679}
9531:153	$0, 0, 0, 0, \frac{4}{191}\sqrt{39e^{12}}, \frac{16}{191}\sqrt{2e^{13}}, \frac{4}{191}\sqrt{353e^{25}},$ $\frac{20}{191}\sqrt{11e^{14}} + \frac{4}{191}\sqrt{163e^{36}}, \frac{20}{191}\sqrt{295e^{15}} + \frac{8}{191}\sqrt{85e^{27}}$	$(\frac{16}{191}, \frac{8}{191}, -\frac{20}{191}, -\frac{40}{191}, \frac{24}{191}, \frac{4}{191}, \frac{32}{191}, -\frac{24}{191}, \frac{40}{191})$ $+ \frac{4}{191}\sqrt{649e^2} \otimes e_8$	{135789, 156789}
9531:153	$0, 0, 0, 0, \frac{49}{5895}\sqrt{1122e^{12}}, \frac{49}{5895}\sqrt{4526e^{13}}, \frac{49}{5895}\sqrt{174e^{25}},$ $\frac{49}{5895}\sqrt{2946e^{14}} + \frac{196}{5895}\sqrt{307e^{36}}, \frac{98}{5895}\sqrt{570e^{15}} + \frac{98}{5895}\sqrt{886e^{27}}$	$(-\frac{98}{1179}, -\frac{49}{1179}, \frac{392}{1965}, \frac{784}{1965}, -\frac{49}{393}, \frac{686}{5895}, -\frac{196}{1179}, \frac{1862}{5895}, -\frac{245}{1179})$ $+ \frac{196}{5895}\sqrt{627e^3} \otimes e_9$	{1234578, 146789}
9531:153	$0, 0, 0, 0, \frac{20}{529}\sqrt{390e^{12}}, \frac{100}{529}\sqrt{2e^{13}}, \frac{40}{529}\sqrt{30e^{25}},$ $\frac{10}{529}\sqrt{1235e^{14}} + \frac{10}{529}\sqrt{505e^{36}}, \frac{20}{529}\sqrt{430e^{15}} + \frac{100}{529}\sqrt{10e^{27}}$	$(\frac{80}{529}, \frac{40}{529}, -\frac{85}{529}, -\frac{170}{529}, \frac{120}{529}, -\frac{5}{529}, \frac{160}{529}, -\frac{90}{529}, \frac{200}{529})$ $+ \frac{10}{529}\sqrt{2365e^1} \otimes e_4$	{2345679, 24579, 3467, 47}
9531:153	$0, 0, 0, 0, \frac{20}{529}\sqrt{390e^{12}}, \frac{100}{529}\sqrt{2e^{13}}, \frac{40}{529}\sqrt{30e^{25}},$ $\frac{10}{529}\sqrt{1235e^{14}} + \frac{10}{529}\sqrt{505e^{36}}, \frac{20}{529}\sqrt{430e^{15}} + \frac{100}{529}\sqrt{10e^{27}}$	$(\frac{80}{529}, \frac{40}{529}, -\frac{85}{529}, -\frac{170}{529}, \frac{120}{529}, -\frac{5}{529}, \frac{160}{529}, -\frac{90}{529}, \frac{200}{529})$ $- \frac{10}{529}\sqrt{2365e^1} \otimes e_4$	{2345679, 24579, 3467, 47}
9531:153	$0, 0, 0, 0, \frac{17}{351}\sqrt{138e^{12}}, \frac{17}{351}\sqrt{34e^{13}}, \frac{17}{351}\sqrt{2e^{25}},$ $\frac{119}{351}\sqrt{6e^{14}} + \frac{17}{351}\sqrt{62e^{36}}, \frac{17}{117}\sqrt{6e^{15}} + \frac{17}{351}\sqrt{262e^{27}}$	$(-\frac{34}{351}, -\frac{17}{351}, \frac{34}{117}, \frac{68}{117}, -\frac{17}{117}, \frac{68}{351}, -\frac{68}{351}, \frac{170}{351}, -\frac{85}{351})$ $+ \frac{17}{117}\sqrt{66e^4} \otimes e_9$	{3579, 5679}
9531:154	$0, 0, 0, 0, \frac{20}{293}\sqrt{21e^{12}}, \frac{10}{293}\sqrt{218e^{13}}, \frac{30}{293}\sqrt{2e^{25}},$ $\frac{60}{293}\sqrt{3e^{16}} + \frac{20}{293}\sqrt{354e^{34}}, \frac{20}{293}\sqrt{62e^{15}} + \frac{40}{293}\sqrt{21e^{27}}$	$(-\frac{20}{293}, -\frac{10}{293}, \frac{150}{293}, -\frac{40}{293}, -\frac{30}{293}, \frac{130}{293}, -\frac{40}{293}, \frac{110}{293}, -\frac{50}{293})$ $+ \frac{10}{293}\sqrt{978e^3} \otimes e_9$	{123457, 146789}
9531:154	$0, 0, 0, 0, \frac{6}{77}\sqrt{5e^{12}}, \frac{4}{77}\sqrt{22e^{13}}, \frac{2}{77}\sqrt{165e^{25}},$ $\frac{10}{77}\sqrt{7e^{16}} + \frac{2}{77}\sqrt{15e^{34}}, \frac{2}{77}\sqrt{187e^{15}} + \frac{12}{77}\sqrt{5e^{27}}$	$(\frac{4}{77}, \frac{2}{77}, -\frac{2}{11}, \frac{8}{77}, \frac{6}{77}, -\frac{10}{77}, \frac{8}{77}, -\frac{6}{77}, \frac{10}{77})$ $+ \frac{6}{77}\sqrt{29e^2} \otimes e_8$	{12569, 138}
9531:154	$0, 0, 0, 0, \frac{222}{313}\sqrt{2e^{12}}, \frac{37}{2191}\sqrt{4858e^{13}}, \frac{37}{2191}\sqrt{1542e^{25}},$ $\frac{74}{2191}\sqrt{898e^{16}} + \frac{37}{2191}\sqrt{2622e^{34}}, \frac{37}{2191}\sqrt{4042e^{15}} + \frac{111}{2191}\sqrt{302e^{27}}$	$(-\frac{148}{2191}, -\frac{74}{2191}, \frac{1073}{2191}, -\frac{296}{2191}, -\frac{222}{2191}, \frac{925}{2191}, -\frac{296}{2191}, \frac{111}{313}, -\frac{370}{2191})$ $+ \frac{111}{2191}\sqrt{422e^3} \otimes e_4$	{124569, 146}
9531:154	$0, 0, 0, 0, \frac{1}{637}\sqrt{3126e^{12}}, \frac{1}{637}\sqrt{3930e^{13}}, \frac{1}{637}\sqrt{1590e^{25}},$ $\frac{1}{637}\sqrt{3930e^{16}} + \frac{1}{637}\sqrt{3894e^{34}}, \frac{1}{637}\sqrt{4890e^{15}} + \frac{1}{637}\sqrt{1398e^{27}}$	$(-\frac{6}{637}, -\frac{3}{637}, \frac{2}{49}, -\frac{12}{637}, -\frac{9}{637}, \frac{20}{637}, -\frac{12}{637}, \frac{2}{91}, -\frac{15}{637})$ $+ \frac{1}{637}\sqrt{3702e^4} \otimes e_9$	{235789, 25679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:155	$0, 0, 0, 0, \frac{2}{117}\sqrt{435}e^{12}, \frac{2}{117}\sqrt{1105}e^{13}, \frac{4}{39}\sqrt{10}e^{25},$ $\frac{4}{117}\sqrt{165}e^{24} + \frac{2}{117}\sqrt{1195}e^{36}, \frac{2}{39}\sqrt{5}e^{15} + \frac{10}{117}\sqrt{53}e^{27}$	$(-\frac{10}{117}, -\frac{5}{117}, \frac{25}{117}, \frac{5}{13}, -\frac{5}{39}, \frac{5}{39}, -\frac{20}{117}, \frac{40}{117}, -\frac{25}{117})$ $+ \frac{4}{117}\sqrt{615}e^3 \otimes e_9$	{2367, 4579}
9531:156	$0, 0, 0, 0, \frac{10}{299}\sqrt{321}e^{12}, \frac{60}{299}\sqrt{5}e^{34}, \frac{40}{299}\sqrt{3}e^{15},$ $\frac{30}{299}\sqrt{43}e^{13} + \frac{60}{299}\sqrt{11}e^{25} + \frac{40}{299}\sqrt{3}e^{46}, \frac{10}{299}\sqrt{321}e^{17}$	$(-\frac{50}{299}, \frac{60}{299}, \frac{120}{299}, -\frac{25}{299}, \frac{10}{299}, \frac{95}{299}, -\frac{40}{299}, \frac{70}{299}, -\frac{90}{299})$ $+ \frac{20}{299}\sqrt{186}e^2 \otimes e_9$	{123478, 123678, 134589, 135689}
9531:156	$0, 0, 0, 0, \frac{10}{299}\sqrt{321}e^{12}, \frac{60}{299}\sqrt{5}e^{34}, \frac{40}{299}\sqrt{3}e^{15},$ $\frac{30}{299}\sqrt{43}e^{13} + \frac{60}{299}\sqrt{11}e^{25} + \frac{40}{299}\sqrt{3}e^{46}, \frac{10}{299}\sqrt{321}e^{17}$	$(-\frac{50}{299}, \frac{60}{299}, \frac{120}{299}, -\frac{25}{299}, \frac{10}{299}, \frac{95}{299}, -\frac{40}{299}, \frac{70}{299}, -\frac{90}{299})$ $- \frac{20}{299}\sqrt{186}e^2 \otimes e_9$	{123478, 123678, 134589, 135689}
9531:156	$0, 0, 0, 0, \frac{64}{3671}\sqrt{69}e^{12}, \frac{32}{3671}\sqrt{1913}e^{34}, \frac{64}{3671}\sqrt{226}e^{15},$ $\frac{64}{3671}\sqrt{517}e^{13} + \frac{96}{3671}\sqrt{7}e^{25} + \frac{32}{3671}\sqrt{1934}e^{46}, \frac{32}{3671}\sqrt{1821}e^{17}$	$(-\frac{352}{3671}, \frac{368}{3671}, \frac{736}{3671}, -\frac{176}{3671}, \frac{16}{3671}, \frac{560}{3671}, -\frac{336}{3671}, \frac{384}{3671}, -\frac{688}{3671})$ $+ \frac{32}{3671}\sqrt{3090}e^4 \otimes e_9$	{12467, 159}
9531:158	$0, 0, 0, 0, \frac{1}{37}\sqrt{222}e^{12}, \frac{1}{37}\sqrt{370}e^{13}, \frac{2}{37}\sqrt{11}e^{15},$ $\frac{2}{37}\sqrt{185}e^{16} + \frac{1}{37}\sqrt{259}e^{25}, \frac{5}{37}\sqrt{37}e^{17} + \frac{1}{37}\sqrt{85}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{37}\sqrt{2257}e^4 \otimes e_9$	{1234678, 25679}
9531:158	$0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{6}\sqrt{15}e^{13}, \frac{1}{2}\sqrt{2}e^{15}, \frac{1}{6}\sqrt{30}e^{16} + \frac{1}{3}\sqrt{5}e^{25},$ $\frac{1}{6}\sqrt{7}e^{17} + \frac{1}{3}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{6}\sqrt{61}e^4 \otimes e_8$	{146, 35689}
9531:158	$0, 0, 0, 0, \frac{65}{5461}\sqrt{5306}e^{12}, \frac{65}{5461}\sqrt{1346}e^{13}, \frac{195}{5461}\sqrt{74}e^{15},$ $\frac{260}{5461}\sqrt{217}e^{16} + \frac{260}{5461}\sqrt{286}e^{25}, \frac{65}{5461}\sqrt{178}e^{17} + \frac{65}{5461}\sqrt{1802}e^{36}$	$(\frac{390}{5461}, \frac{520}{5461}, \frac{650}{5461}, -\frac{3705}{5461}, \frac{910}{5461}, \frac{1040}{5461}, \frac{1300}{5461}, \frac{1430}{5461}, \frac{1690}{5461})$ $+ \frac{65}{5461}\sqrt{9166}e^2 \otimes e_4$	{134568, 469}
9531:158	$0, 0, 0, 0, \frac{64}{697}\sqrt{29}e^{12}, \frac{48}{697}\sqrt{38}e^{13}, \frac{64}{697}\sqrt{46}e^{15},$ $\frac{32}{697}\sqrt{123}e^{16} + \frac{16}{697}\sqrt{254}e^{25}, \frac{16}{697}\sqrt{562}e^{17} + \frac{224}{697}e^{36}$	$(\frac{48}{697}, \frac{64}{697}, \frac{80}{697}, -\frac{464}{697}, \frac{112}{697}, \frac{128}{697}, \frac{160}{697}, \frac{176}{697}, \frac{208}{697})$ $+ \frac{48}{697}\sqrt{258}e^1 \otimes e_4$	{1267, 23456789}
9531:158	$0, 0, 0, 0, \frac{33}{1337}\sqrt{95}e^{12}, \frac{132}{1337}\sqrt{79}e^{13}, \frac{66}{1337}\sqrt{97}e^{15},$ $\frac{33}{1337}\sqrt{69}e^{16} + \frac{66}{1337}\sqrt{61}e^{25}, \frac{33}{1337}\sqrt{635}e^{17} + \frac{198}{1337}\sqrt{30}e^{36}$	$(\frac{99}{1337}, \frac{132}{1337}, \frac{165}{1337}, -\frac{132}{1337}, \frac{33}{1337}, \frac{264}{1337}, \frac{330}{1337}, \frac{363}{1337}, \frac{429}{1337})$ $+ \frac{33}{1337}\sqrt{2261}e^3 \otimes e_4$	{1245679, 23678}
9531:158	$0, 0, 0, 0, \frac{9}{5453}\sqrt{5806}e^{12}, \frac{9}{5453}\sqrt{3342}e^{13}, \frac{18}{5453}\sqrt{505}e^{15},$ $\frac{9}{5453}\sqrt{6630}e^{16} + \frac{18}{5453}\sqrt{1293}e^{25}, \frac{18}{5453}\sqrt{865}e^{17} + \frac{18}{5453}\sqrt{1173}e^{36}$	$(-\frac{27}{5453}, -\frac{36}{5453}, -\frac{45}{5453}, \frac{90}{779}, -\frac{9}{779}, -\frac{72}{5453}, -\frac{90}{5453}, -\frac{99}{5453}, -\frac{117}{5453})$ $+ \frac{9}{5453}\sqrt{9646}e^2 \otimes e_9$	{1234678, 123678}
9531:159	$0, 0, 0, 0, \frac{7}{341}\sqrt{1045}e^{12}, \frac{14}{341}\sqrt{30}e^{13}, \frac{21}{341}\sqrt{130}e^{25},$ $\frac{70}{341}e^{15} + \frac{35}{341}\sqrt{17}e^{36}, \frac{7}{341}\sqrt{590}e^{16} + \frac{7}{341}\sqrt{985}e^{27}$	$(\frac{35}{341}, \frac{21}{341}, \frac{28}{341}, -\frac{224}{341}, \frac{56}{341}, \frac{63}{341}, \frac{7}{31}, \frac{91}{341}, \frac{98}{341})$ $+ \frac{35}{341}\sqrt{113}e^2 \otimes e_4$	{127, 468}
9531:159	$0, 0, 0, 0, \frac{72}{821}\sqrt{46}e^{12}, \frac{54}{821}\sqrt{66}e^{13}, \frac{72}{821}\sqrt{5}e^{25},$ $\frac{18}{821}\sqrt{766}e^{15} + \frac{36}{821}\sqrt{89}e^{36}, \frac{108}{821}\sqrt{23}e^{16} + \frac{18}{821}\sqrt{346}e^{27}$	$(\frac{90}{821}, \frac{54}{821}, \frac{72}{821}, -\frac{558}{821}, \frac{144}{821}, \frac{162}{821}, \frac{198}{821}, \frac{234}{821}, \frac{252}{821})$ $+ \frac{18}{821}\sqrt{2758}e^1 \otimes e_4$	{1359, 23456789}
9531:159	$0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{1}{9}\sqrt{30}e^{13}, \frac{1}{3}\sqrt{2}e^{25}, \frac{1}{9}\sqrt{26}e^{15} + \frac{1}{9}\sqrt{2}e^{36},$ $\frac{2}{9}\sqrt{15}e^{16} + \frac{1}{9}\sqrt{46}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{9}\sqrt{134}e^4 \otimes e_9$	{146, 2478}
9531:159	$0, 0, 0, 0, \frac{1846}{6693}\sqrt{3}e^{12}, \frac{142}{6693}\sqrt{1637}e^{13}, \frac{355}{6693}\sqrt{86}e^{25},$ $\frac{71}{2231}\sqrt{470}e^{15} + \frac{71}{6693}\sqrt{5702}e^{36}, \frac{71}{6693}\sqrt{510}e^{16} + \frac{71}{6693}\sqrt{1246}e^{27}$	$(\frac{710}{6693}, \frac{142}{2231}, \frac{568}{6693}, -\frac{1491}{2231}, \frac{1136}{6693}, \frac{426}{2231}, \frac{1562}{6693}, \frac{1846}{6693}, \frac{1988}{6693})$ $+ \frac{71}{6693}\sqrt{11166}e^3 \otimes e_4$	{123589, 35679}
9531:159	$0, 0, 0, 0, \frac{1}{10}\sqrt{30}e^{12}, \frac{1}{2}e^{13}, \frac{1}{10}\sqrt{15}e^{25},$ $\frac{1}{20}\sqrt{310}e^{15} + \frac{1}{20}\sqrt{230}e^{36}, \frac{1}{2}\sqrt{2}e^{16} + \frac{1}{20}\sqrt{70}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{20}\sqrt{670}e^4 \otimes e_8$	{145, 25678}
9531:169	$0, 0, 0, 0, \frac{144}{5501}\sqrt{407}e^{12}, \frac{72}{5501}\sqrt{291}e^{34}, \frac{144}{5501}\sqrt{127}e^{15},$ $\frac{72}{5501}\sqrt{2397}e^{25} + \frac{72}{5501}\sqrt{1182}e^{36}, \frac{72}{5501}\sqrt{617}e^{17} + \frac{72}{5501}\sqrt{2022}e^{46}$	$(-\frac{864}{5501}, \frac{1476}{5501}, \frac{1764}{5501}, -\frac{1440}{5501}, \frac{612}{5501}, \frac{324}{5501}, -\frac{252}{5501}, \frac{2088}{5501}, -\frac{1116}{5501})$ $+ \frac{144}{5501}\sqrt{1157}e^2 \otimes e_9$	{2456, 3479}
9531:195	$0, 0, 0, 0, \frac{14}{137}\sqrt{30}e^{12}, -\frac{28}{137}\sqrt{5}e^{13}, \frac{14}{137}\sqrt{35}e^{15},$ $\frac{14}{137}\sqrt{15}e^{16} + \frac{14}{137}\sqrt{3}e^{25}, \frac{14}{137}\sqrt{30}e^{17} + \frac{42}{137}\sqrt{2}e^{23}$	$(\frac{7}{137}, \frac{14}{137}, \frac{21}{137}, -\frac{91}{137}, \frac{21}{137}, \frac{28}{137}, \frac{28}{137}, \frac{35}{137}, \frac{35}{137})$ $+ \frac{14}{137}\sqrt{114}e^1 \otimes e_4$	{1267, 1569, 23456789, 3468, 1267, 1569, 23456789, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:195	$0, 0, 0, 0, \frac{14}{137}\sqrt{30}e^{12}, \frac{28}{137}\sqrt{5}e^{13}, \frac{14}{137}\sqrt{35}e^{15},$ $\frac{14}{137}\sqrt{15}e^{16} + \frac{14}{137}\sqrt{3}e^{25}, \frac{14}{137}\sqrt{30}e^{17} + \frac{42}{137}\sqrt{2}e^{23}$	$(\frac{7}{137}, \frac{14}{137}, \frac{21}{137}, -\frac{91}{137}, \frac{21}{137}, \frac{28}{137}, \frac{28}{137}, \frac{35}{137}, \frac{35}{137})$ $+ \frac{14}{137}\sqrt{114}e^1 \otimes e_4$	{1267, 1569, 23456789, 3468, 1267, 1569, 23456789, 3468}
9531:196	$0, 0, 0, 0, \frac{40}{1703}\sqrt{1199}e^{12}, \frac{40}{1703}\sqrt{547}e^{13}, \frac{120}{1703}\sqrt{19}e^{15},$ $\frac{40}{1703}\sqrt{914}e^{16} + \frac{40}{1703}\sqrt{1101}e^{25}, \frac{80}{1703}\sqrt{106}e^{17} + \frac{40}{1703}\sqrt{857}e^{24}$	$(-\frac{180}{1703}, \frac{20}{131}, \frac{700}{1703}, -\frac{540}{1703}, \frac{80}{1703}, \frac{40}{131}, -\frac{100}{1703}, \frac{340}{1703}, -\frac{280}{1703})$ $+ \frac{200}{1703}\sqrt{62}e^2 \otimes e_4$	{123678, 46}
9531:196	$0, 0, 0, 0, \frac{10}{373}\sqrt{730}e^{12}, \frac{20}{373}\sqrt{235}e^{13}, \frac{10}{373}\sqrt{295}e^{15},$ $\frac{10}{373}\sqrt{505}e^{16} + \frac{10}{373}\sqrt{295}e^{25}, \frac{10}{373}\sqrt{70}e^{17} + \frac{20}{373}\sqrt{235}e^{24}$	$(-\frac{45}{373}, \frac{70}{373}, \frac{185}{373}, -\frac{135}{373}, \frac{25}{373}, \frac{140}{373}, \frac{20}{373}, \frac{95}{373}, -\frac{65}{373})$ $+ \frac{400}{373}e^3 \otimes e_9$	{1234578, 279}
9531:197	$0, 0, 0, 0, \frac{49}{167}\sqrt{6}e^{12}, \frac{42}{167}\sqrt{11}e^{13}, \frac{14}{167}\sqrt{3}e^{25},$ $\frac{7}{167}\sqrt{330}e^{15} + \frac{7}{167}\sqrt{438}e^{23}, \frac{84}{167}\sqrt{2}e^{16} + \frac{28}{167}\sqrt{6}e^{27}$	$(\frac{14}{167}, \frac{14}{167}, \frac{28}{167}, -\frac{119}{167}, \frac{28}{167}, \frac{42}{167}, \frac{42}{167}, \frac{42}{167}, \frac{56}{167})$ $+ \frac{7}{167}\sqrt{858}e^3 \otimes e_4$	{124568, 457}
9531:197	$0, 0, 0, 0, \frac{1}{11}\sqrt{11}e^{12}, \frac{1}{33}\sqrt{462}e^{13}, \frac{1}{33}\sqrt{429}e^{25},$ $\frac{5}{33}\sqrt{33}e^{15} + \frac{1}{33}\sqrt{759}e^{23}, \frac{1}{33}\sqrt{165}e^{16} + \frac{2}{33}\sqrt{33}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{11}\sqrt{209}e^4 \otimes e_8$	{128, 467}
9531:197	$0, 0, 0, 0, \frac{10}{67}\sqrt{19}e^{12}, \frac{20}{67}e^{13}, \frac{10}{67}\sqrt{21}e^{25}, \frac{10}{67}e^{15} + \frac{10}{67}\sqrt{5}e^{23},$ $\frac{20}{67}\sqrt{2}e^{16} + \frac{10}{67}\sqrt{17}e^{27}$	$(\frac{5}{67}, \frac{5}{67}, \frac{10}{67}, -\frac{45}{67}, \frac{10}{67}, \frac{15}{67}, \frac{15}{67}, \frac{15}{67}, \frac{20}{67})$ $+ \frac{20}{67}\sqrt{14}e^2 \otimes e_4$	{13456789, 2359}
9531:197	$0, 0, 0, 0, \frac{10}{67}\sqrt{19}e^{12}, \frac{20}{201}\sqrt{33}e^{13}, \frac{10}{201}\sqrt{21}e^{25},$ $\frac{10}{201}\sqrt{159}e^{15} + \frac{10}{201}\sqrt{123}e^{23}, \frac{40}{201}\sqrt{6}e^{16} + \frac{10}{201}\sqrt{15}e^{27}$	$(\frac{5}{67}, \frac{5}{67}, \frac{10}{67}, -\frac{45}{67}, \frac{10}{67}, \frac{15}{67}, \frac{15}{67}, \frac{15}{67}, \frac{20}{67})$ $+ \frac{20}{67}\sqrt{14}e^1 \otimes e_4$	{123789, 3469}
9531:197	$0, 0, 0, 0, \frac{1}{69}\sqrt{230}e^{12}, \frac{1}{69}\sqrt{1794}e^{13}, \frac{4}{69}\sqrt{69}e^{25},$ $\frac{1}{69}\sqrt{1518}e^{15} + \frac{1}{69}\sqrt{138}e^{23}, \frac{5}{69}\sqrt{138}e^{16} + \frac{2}{69}\sqrt{690}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{23}\sqrt{874}e^4 \otimes e_9$	{123589, 35679}
9531:199	$0, 0, 0, 0, \frac{1}{2}\sqrt{6}e^{12}, \frac{1}{2}\sqrt{2}e^{13}, \frac{1}{2}\sqrt{6}e^{25}, \frac{1}{2}\sqrt{10}e^{16} + \frac{1}{2}\sqrt{6}e^{23},$ $\frac{1}{2}\sqrt{10}e^{15} + \sqrt{2}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{2}\sqrt{6}e^4 \otimes e_8$	{123589, 124569}
9531:199	$0, 0, 0, 0, \frac{1}{7}\sqrt{30}e^{12}, \frac{5}{7}\sqrt{2}e^{13}, \frac{1}{7}\sqrt{46}e^{25},$ $\frac{2}{7}\sqrt{14}e^{16} + \frac{1}{7}\sqrt{62}e^{23}, \frac{6}{7}\sqrt{2}e^{15} + \frac{5}{7}\sqrt{2}e^{27}$	$(0, 0, \frac{1}{7}, -\frac{2}{7}, 0, \frac{1}{7}, 0, \frac{1}{7}, 0)$ $+ \frac{3}{7}\sqrt{2}e^3 \otimes e_9$	{3478, 378}
9531:199	$0, 0, 0, 0, \frac{6}{7}e^{12}, \frac{1}{7}\sqrt{70}e^{13}, \frac{2}{7}\sqrt{17}e^{25},$ $\frac{1}{7}\sqrt{70}e^{16} + \frac{1}{7}\sqrt{70}e^{23}, \frac{2}{7}\sqrt{23}e^{15} + \frac{4}{7}\sqrt{5}e^{27}$	$(0, 0, \frac{2}{7}, -\frac{3}{7}, 0, \frac{2}{7}, 0, \frac{2}{7}, 0)$ $+ \frac{1}{7}\sqrt{30}e^2 \otimes e_4$	{123589, 12569}
9531:199	$0, 0, 0, 0, \frac{6}{7}e^{12}, \frac{4}{7}\sqrt{5}e^{13}, \frac{1}{7}\sqrt{58}e^{25}, \frac{4}{7}\sqrt{5}e^{16} + \frac{4}{7}\sqrt{5}e^{23},$ $\frac{1}{7}\sqrt{82}e^{15} + \frac{1}{7}\sqrt{70}e^{27}$	$(0, 0, \frac{2}{7}, -\frac{3}{7}, 0, \frac{2}{7}, 0, \frac{2}{7}, 0)$ $+ \frac{1}{7}\sqrt{30}e^1 \otimes e_4$	{123589, 12569}
9531:199	$0, 0, 0, 0, \frac{1}{2}\sqrt{6}e^{12}, \frac{1}{2}\sqrt{10}e^{13}, \frac{1}{2}\sqrt{6}e^{25}, \sqrt{2}e^{16} + \frac{1}{2}\sqrt{6}e^{23},$ $\frac{1}{2}\sqrt{10}e^{15} + \sqrt{2}e^{27}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{1}{2}\sqrt{6}e^3 \otimes e_4$	{123589, 124569}
9531:199	$0, 0, 0, 0, \sqrt{2}e^{12}, \frac{1}{3}\sqrt{30}e^{13}, \frac{2}{3}\sqrt{6}e^{25}, \frac{1}{3}\sqrt{30}e^{16} + \frac{1}{3}\sqrt{30}e^{23},$ $\frac{1}{3}\sqrt{42}e^{15} + \frac{2}{3}\sqrt{6}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \sqrt{2}e^4 \otimes e_9$	{3478, 467}
9531:200	$0, 0, 0, 0, \frac{140}{3197}\sqrt{374}e^{12}, \frac{70}{3197}\sqrt{210}e^{13}, \frac{70}{3197}\sqrt{258}e^{15},$ $\frac{560}{3197}\sqrt{23}e^{25}, \frac{140}{3197}\sqrt{30}e^{17} + \frac{2170}{3197}e^{24} + \frac{70}{3197}\sqrt{523}e^{36}$	$(-\frac{420}{3197}, \frac{1190}{3197}, \frac{175}{3197}, -\frac{1260}{3197}, \frac{770}{3197}, -\frac{245}{3197}, \frac{350}{3197}, \frac{1960}{3197}, -\frac{70}{3197})$ $+ \frac{210}{3197}\sqrt{301}e^2 \otimes e_4$	{12368, 128}
9531:200	$0, 0, 0, 0, \frac{42}{3145}\sqrt{65}e^{12}, \frac{1176}{3145}\sqrt{2}e^{13}, \frac{84}{3145}\sqrt{233}e^{15},$ $\frac{42}{3145}\sqrt{1594}e^{25}, \frac{84}{3145}\sqrt{173}e^{17} + \frac{42}{3145}\sqrt{705}e^{24} + \frac{42}{3145}\sqrt{1514}e^{36}$	$(\frac{21}{185}, -\frac{588}{3145}, \frac{63}{3145}, \frac{63}{185}, -\frac{231}{3145}, \frac{84}{629}, \frac{126}{3145}, -\frac{819}{3145}, \frac{483}{3145})$ $+ \frac{42}{3145}\sqrt{2779}e^3 \otimes e_8$	{156789, 3467}
9531:201	$0, 0, 0, 0, \frac{7}{255}\sqrt{102}e^{12}, \frac{7}{255}\sqrt{462}e^{13}, \frac{7}{255}\sqrt{114}e^{25}, \frac{7}{255}\sqrt{570}e^{15},$ $\frac{28}{255}\sqrt{33}e^{14} + \frac{14}{255}\sqrt{3}e^{27} + \frac{7}{255}\sqrt{690}e^{36}$	$(-\frac{21}{85}, \frac{14}{85}, \frac{21}{85}, \frac{42}{85}, -\frac{7}{85}, 0, \frac{7}{85}, -\frac{28}{85}, \frac{21}{85})$ $+ \frac{7}{255}\sqrt{1302}e^3 \otimes e_8$	{13459, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:201	$0, 0, 0, 0, \frac{7}{23}\sqrt{6}e^{12}, \frac{7}{345}\sqrt{595}e^{13}, \frac{7}{345}\sqrt{290}e^{25}, \frac{7}{345}\sqrt{1415}e^{15},$ $\frac{14}{69}\sqrt{11}e^{14} + \frac{7}{345}\sqrt{95}e^{27} + \frac{14}{345}\sqrt{145}e^{36}$	$(\frac{119}{345}, -\frac{14}{115}, -\frac{21}{115}, -\frac{42}{115}, \frac{77}{345}, \frac{56}{345}, \frac{7}{69}, \frac{196}{345}, -\frac{7}{345})$ $+ \frac{7}{345}\sqrt{2905}e^1 \otimes e_4$	{3467, 47}
9531:202	$0, 0, 0, 0, \frac{21}{1291}\sqrt{2670}e^{12}, \frac{105}{1291}\sqrt{210}e^{13}, \frac{42}{1291}\sqrt{318}e^{25},$ $\frac{126}{1291}\sqrt{74}e^{15}, \frac{21}{1291}\sqrt{2622}e^{16} + \frac{21}{1291}\sqrt{1290}e^{27} + \frac{21}{1291}\sqrt{2670}e^{34}$	$(-\frac{231}{1291}, \frac{210}{1291}, \frac{861}{1291}, -\frac{462}{1291}, -\frac{21}{1291}, \frac{630}{1291}, \frac{189}{1291}, -\frac{252}{1291}, \frac{399}{1291})$ $+ \frac{21}{1291}\sqrt{6594}e^3 \otimes e_4$	{146, 2478}
9531:202	$0, 0, 0, 0, \frac{14}{3541}\sqrt{1102}e^{12}, \frac{7}{3541}\sqrt{5838}e^{13}, \frac{14}{3541}\sqrt{537}e^{25},$ $\frac{14}{3541}\sqrt{1691}e^{15}, \frac{14}{3541}\sqrt{1306}e^{16} + \frac{7}{3541}\sqrt{1842}e^{27} + \frac{7}{3541}\sqrt{6662}e^{34}$	$(\frac{105}{3541}, -\frac{49}{3541}, -\frac{252}{3541}, \frac{210}{3541}, \frac{56}{3541}, -\frac{147}{3541}, \frac{7}{3541}, \frac{161}{3541}, -\frac{42}{3541})$ $+ \frac{49}{3541}\sqrt{138}e^4 \otimes e_8$	{128, 235789}
9531:202	$0, 0, 0, 0, \frac{28}{509}\sqrt{103}e^{12}, \frac{42}{509}\sqrt{14}e^{13}, \frac{42}{509}\sqrt{26}e^{25}, \frac{28}{509}\sqrt{254}e^{15},$ $\frac{28}{509}\sqrt{163}e^{16} + \frac{168}{509}e^{27} + \frac{14}{509}\sqrt{986}e^{34}$	$(-\frac{84}{509}, \frac{70}{509}, \frac{294}{509}, -\frac{168}{509}, -\frac{14}{509}, \frac{210}{509}, \frac{56}{509}, -\frac{98}{509}, \frac{126}{509})$ $+ \frac{14}{509}\sqrt{1722}e^3 \otimes e_8$	{128, 13569}
9531:203	$0, 0, 0, 0, \frac{70}{3781}\sqrt{1141}e^{12}, \frac{70}{3781}\sqrt{521}e^{13}, \frac{70}{3781}\sqrt{789}e^{25},$ $\frac{70}{3781}\sqrt{601}e^{15} + \frac{35}{3781}\sqrt{4310}e^{24}, \frac{105}{3781}\sqrt{362}e^{16} + \frac{35}{3781}\sqrt{3522}e^{27}$	$(-\frac{455}{3781}, \frac{315}{3781}, \frac{1400}{3781}, -\frac{910}{3781}, -\frac{140}{3781}, \frac{945}{3781}, \frac{175}{3781}, -\frac{595}{3781}, \frac{490}{3781})$ $+ \frac{35}{3781}\sqrt{6846}e^2 \otimes e_4$	{1345679, 46}
9531:203	$0, 0, 0, 0, \frac{14}{509}\sqrt{574}e^{12}, \frac{28}{509}\sqrt{215}e^{13}, \frac{42}{509}\sqrt{26}e^{25},$ $\frac{14}{509}\sqrt{30}e^{15} + \frac{14}{509}\sqrt{986}e^{24}, \frac{14}{509}\sqrt{334}e^{16} + \frac{168}{509}e^{27}$	$(-\frac{84}{509}, \frac{70}{509}, \frac{294}{509}, -\frac{168}{509}, -\frac{14}{509}, \frac{210}{509}, \frac{56}{509}, -\frac{98}{509}, \frac{126}{509})$ $+ \frac{14}{509}\sqrt{1722}e^3 \otimes e_8$	{1234579, 14678}
9531:203	$0, 0, 0, 0, \frac{98}{3757}\sqrt{1113}e^{12}, \frac{49}{3757}\sqrt{2706}e^{13}, \frac{49}{3757}\sqrt{390}e^{25},$ $\frac{49}{3757}\sqrt{4502}e^{15} + \frac{392}{3757}\sqrt{39}e^{24}, \frac{980}{3757}e^{16} + \frac{196}{3757}\sqrt{15}e^{27}$	$(\frac{49}{221}, -\frac{245}{3757}, -\frac{1568}{3757}, \frac{98}{221}, \frac{588}{3757}, -\frac{735}{3757}, \frac{343}{3757}, \frac{1421}{3757}, \frac{98}{3757})$ $+ \frac{147}{3757}\sqrt{742}e^1 \otimes e_3$	{1248, 2345789}
9531:203	$0, 0, 0, 0, \frac{70}{3961}\sqrt{1169}e^{12}, \frac{35}{3961}\sqrt{3358}e^{13}, \frac{140}{3961}\sqrt{3}e^{25},$ $\frac{35}{3961}\sqrt{4490}e^{15} + \frac{35}{3961}\sqrt{5542}e^{24}, \frac{105}{3961}\sqrt{614}e^{16} + \frac{35}{3961}\sqrt{510}e^{27}$	$(\frac{35}{233}, -\frac{210}{3961}, -\frac{1225}{3961}, \frac{70}{233}, \frac{385}{3961}, -\frac{630}{3961}, \frac{175}{3961}, \frac{980}{3961}, -\frac{35}{3961})$ $+ \frac{35}{3961}\sqrt{7014}e^4 \otimes e_9$	{1379, 23689}
9531:204	$0, 0, 0, 0, \frac{26}{205}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{42}e^{13}, \frac{13}{205}\sqrt{74}e^{15}, \frac{52}{205}\sqrt{13}e^{16},$ $\frac{26}{205}\sqrt{29}e^{17} + \frac{13}{205}\sqrt{34}e^{25} + \frac{13}{41}\sqrt{6}e^{34}$	$(\frac{13}{205}, \frac{26}{205}, -\frac{13}{41}, \frac{26}{41}, \frac{39}{205}, -\frac{52}{205}, \frac{52}{205}, -\frac{39}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^4 \otimes e_8$	{35689, 459}
9531:204	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{70}e^{13}, \frac{1}{7}\sqrt{42}e^{15}, \frac{1}{7}\sqrt{35}e^{16},$ $\frac{2}{7}\sqrt{7}e^{17} + \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{34}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{2}{7}\sqrt{21}e^3 \otimes e_4$	{138, 146}
9531:204	$0, 0, 0, 0, \frac{46}{3157}\sqrt{1082}e^{16}, \frac{23}{3157}\sqrt{238}e^{17} + \frac{23}{3157}\sqrt{5042}e^{25} + \frac{23}{3157}\sqrt{1146}e^{34},$ $\frac{46}{3157}\sqrt{249}e^{12}, \frac{23}{3157}\sqrt{2806}e^{13}, \frac{23}{3157}\sqrt{3858}e^{15},$	$(\frac{69}{3157}, \frac{138}{3157}, -\frac{529}{3157}, \frac{874}{3157}, \frac{207}{3157}, -\frac{460}{3157}, \frac{276}{3157}, -\frac{391}{3157}, \frac{345}{3157})$ $+ \frac{92}{3157}\sqrt{357}e^2 \otimes e_8$	{1345789, 3678}
9531:205	$0, 0, 0, 0, \frac{8}{409}\sqrt{105}e^{12}, \frac{4}{409}\sqrt{730}e^{13}, \frac{60}{409}\sqrt{5}e^{25}, \frac{4}{409}\sqrt{1265}e^{16},$ $\frac{4}{409}\sqrt{1330}e^{15} + \frac{4}{409}\sqrt{1310}e^{27} + \frac{12}{409}\sqrt{15}e^{34}$	$(\frac{12}{409}, \frac{6}{409}, -\frac{58}{409}, \frac{88}{409}, \frac{18}{409}, -\frac{46}{409}, \frac{24}{409}, -\frac{34}{409}, \frac{30}{409})$ $+ \frac{8}{409}\sqrt{435}e^2 \otimes e_8$	{12569, 138}
9531:205	$0, 0, 0, 0, \frac{2}{31}\sqrt{186}e^{12}, \frac{2}{31}\sqrt{310}e^{13}, \frac{2}{31}\sqrt{93}e^{25}, \frac{2}{31}\sqrt{155}e^{16},$ $\frac{5}{31}\sqrt{31}e^{15} + \frac{1}{31}\sqrt{713}e^{27} + \frac{3}{31}\sqrt{31}e^{34}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{1}{31}\sqrt{1581}e^3 \otimes e_4$	{138, 146}
9531:205	$0, 0, 0, 0, \frac{18}{325}\sqrt{105}e^{12}, \frac{9}{325}\sqrt{267}e^{13}, \frac{18}{325}\sqrt{93}e^{25}, \frac{81}{325}\sqrt{13}e^{16},$ $\frac{9}{325}\sqrt{789}e^{15} + \frac{9}{325}\sqrt{267}e^{27} + \frac{63}{325}\sqrt{15}e^{34}$	$(\frac{36}{325}, \frac{18}{325}, -\frac{9}{26}, \frac{81}{130}, \frac{54}{325}, -\frac{153}{650}, \frac{72}{325}, -\frac{81}{650}, \frac{18}{65})$ $+ \frac{9}{325}\sqrt{1623}e^4 \otimes e_8$	{123589, 124569}
9531:206	$0, 0, 0, 0, \frac{6}{59}\sqrt{19}e^{12}, \frac{12}{59}\sqrt{19}e^{13}, \frac{2}{59}\sqrt{570}e^{15},$ $\frac{4}{59}\sqrt{114}e^{16} + \frac{2}{59}\sqrt{285}e^{24}, \frac{2}{59}\sqrt{190}e^{17} + \frac{38}{59}\sqrt{2}e^{25}$	$(-\frac{3}{59}, -\frac{6}{59}, \frac{23}{59}, \frac{23}{59}, -\frac{9}{59}, \frac{20}{59}, -\frac{12}{59}, \frac{17}{59}, -\frac{15}{59})$ $+ \frac{2}{59}\sqrt{969}e^3 \otimes e_9$	{138, 459}
9531:206	$0, 0, 0, 0, \frac{22}{1073}\sqrt{366}e^{12}, \frac{22}{1073}\sqrt{690}e^{13}, \frac{22}{1073}\sqrt{962}e^{15},$ $\frac{44}{1073}\sqrt{115}e^{16} + \frac{22}{1073}\sqrt{285}e^{24}, \frac{44}{1073}\sqrt{210}e^{17} + \frac{22}{1073}\sqrt{663}e^{25}$	$(\frac{55}{1073}, \frac{110}{1073}, -\frac{187}{1073}, -\frac{187}{1073}, \frac{165}{1073}, -\frac{132}{1073}, \frac{220}{1073}, -\frac{77}{1073}, \frac{275}{1073})$ $+ \frac{110}{1073}\sqrt{39}e^1 \otimes e_3$	{1247, 235789}
9531:206	$0, 0, 0, 0, \frac{6}{59}\sqrt{19}e^{12}, \frac{2}{59}\sqrt{285}e^{13}, \frac{2}{59}\sqrt{399}e^{15},$ $\frac{6}{59}\sqrt{57}e^{16} + \frac{12}{59}\sqrt{19}e^{24}, \frac{2}{59}\sqrt{779}e^{17} + \frac{2}{59}\sqrt{247}e^{25}$	$(-\frac{3}{59}, -\frac{6}{59}, \frac{23}{59}, \frac{23}{59}, -\frac{9}{59}, \frac{20}{59}, -\frac{12}{59}, \frac{17}{59}, -\frac{15}{59})$ $+ \frac{2}{59}\sqrt{969}e^4 \otimes e_9$	{1235689, 246}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:206	$0, 0, 0, 0, \frac{39}{511}\sqrt{61}e^{12}, \frac{13}{511}\sqrt{285}e^{13}, \frac{26}{511}\sqrt{143}e^{15},$ $\frac{13}{511}\sqrt{505}e^{16} + \frac{26}{511}\sqrt{165}e^{24}, \frac{13}{511}\sqrt{755}e^{17} + \frac{13}{511}\sqrt{1003}e^{25}$	$(\frac{65}{1022}, \frac{65}{511}, -\frac{104}{511}, -\frac{104}{511}, \frac{195}{1022}, -\frac{143}{1022}, \frac{130}{511}, -\frac{39}{511}, \frac{325}{1022})$ $+ \frac{39}{511}\sqrt{105}e^2 \otimes e_4$	{145679, 47}
9531:207	$0, 0, 0, 0, \frac{132}{1277}\sqrt{47}e^{12}, \frac{132}{1277}\sqrt{71}e^{13}, \frac{44}{1277}\sqrt{219}e^{25},$ $\frac{264}{1277}\sqrt{10}e^{16} + \frac{44}{1277}\sqrt{213}e^{24}, \frac{44}{1277}\sqrt{217}e^{15} + \frac{44}{1277}\sqrt{710}e^{27}$	$(-\frac{132}{1277}, -\frac{66}{1277}, \frac{638}{1277}, \frac{440}{1277}, -\frac{198}{1277}, \frac{506}{1277}, -\frac{264}{1277}, \frac{374}{1277}, -\frac{330}{1277})$ $+ \frac{220}{1277}\sqrt{42}e^3 \otimes e_9$	{12569, 138}
9531:207	$0, 0, 0, 0, \frac{48}{257}\sqrt{21}e^{12}, \frac{48}{257}\sqrt{15}e^{13}, \frac{16}{257}\sqrt{87}e^{25},$ $\frac{16}{257}\sqrt{70}e^{16} + \frac{48}{257}\sqrt{5}e^{24}, \frac{16}{257}\sqrt{233}e^{15} + \frac{80}{257}\sqrt{6}e^{27}$	$(\frac{40}{257}, \frac{20}{257}, -\frac{88}{257}, -\frac{28}{257}, \frac{60}{257}, -\frac{48}{257}, \frac{80}{257}, -\frac{8}{257}, \frac{100}{257})$ $+ \frac{64}{257}\sqrt{15}e^1 \otimes e_3$	{235789, 3478}
9531:207	$0, 0, 0, 0, \frac{48}{257}\sqrt{5}e^{12}, \frac{16}{257}\sqrt{87}e^{13}, \frac{48}{257}\sqrt{15}e^{25},$ $\frac{80}{257}\sqrt{6}e^{16} + \frac{48}{257}\sqrt{21}e^{24}, \frac{16}{257}\sqrt{233}e^{15} + \frac{16}{257}\sqrt{70}e^{27}$	$(-\frac{24}{257}, -\frac{12}{257}, \frac{104}{257}, \frac{68}{257}, -\frac{36}{257}, \frac{80}{257}, -\frac{48}{257}, \frac{56}{257}, -\frac{60}{257})$ $+ \frac{64}{257}\sqrt{15}e^4 \otimes e_9$	{235789, 3478}
9531:207	$0, 0, 0, 0, \frac{2}{77}\sqrt{6}e^{12}, \frac{6}{77}\sqrt{10}e^{13}, \frac{12}{77}\sqrt{7}e^{25},$ $\frac{8}{77}\sqrt{10}e^{16} + \frac{2}{77}\sqrt{210}e^{24}, \frac{6}{77}\sqrt{238}e^{15} + \frac{10}{77}\sqrt{10}e^{27}$	$(\frac{5}{77}, \frac{5}{154}, -\frac{13}{77}, -\frac{1}{14}, \frac{15}{154}, -\frac{8}{77}, \frac{10}{77}, -\frac{3}{77}, \frac{25}{154})$ $+ \frac{6}{77}\sqrt{30}e^2 \otimes e_4$	{1267, 145679}
9531:208	$0, 0, 0, 0, \frac{28}{1329}\sqrt{46}e^{12}, \frac{308}{443}e^{34}, \frac{28}{443}\sqrt{30}e^{15},$ $\frac{28}{1329}\sqrt{105}e^{25} + \frac{28}{1329}\sqrt{30}e^{36}, \frac{28}{1329}\sqrt{1227}e^{17} + \frac{112}{443}\sqrt{5}e^{23}$	$(-\frac{42}{443}, \frac{56}{443}, -\frac{126}{443}, \frac{322}{443}, \frac{14}{443}, \frac{196}{443}, \frac{28}{443}, \frac{70}{443}, -\frac{70}{443})$ $+ \frac{28}{1329}\sqrt{3282}e^4 \otimes e_9$	{14678, 35679}
9531:208	$0, 0, 0, 0, \frac{44}{233}\sqrt{3}e^{12}, \frac{88}{233}e^{34}, \frac{44}{233}\sqrt{7}e^{15},$ $\frac{22}{233}\sqrt{47}e^{25} + \frac{22}{233}\sqrt{65}e^{36}, \frac{44}{233}\sqrt{3}e^{17} + \frac{22}{233}\sqrt{85}e^{23}$	$(\frac{33}{233}, \frac{11}{233}, \frac{99}{233}, -\frac{143}{233}, \frac{44}{233}, -\frac{44}{233}, \frac{77}{233}, \frac{55}{233}, \frac{110}{233})$ $+ \frac{308}{233}e^3 \otimes e_4$	{12358, 13789, 249, 457}
9531:208	$0, 0, 0, 0, \frac{44}{233}\sqrt{3}e^{12}, \frac{88}{233}e^{34}, \frac{44}{233}\sqrt{7}e^{15},$ $\frac{22}{233}\sqrt{47}e^{25} + \frac{22}{233}\sqrt{65}e^{36}, \frac{44}{233}\sqrt{3}e^{17} + \frac{22}{233}\sqrt{85}e^{23}$	$(\frac{33}{233}, \frac{11}{233}, \frac{99}{233}, -\frac{143}{233}, \frac{44}{233}, -\frac{44}{233}, \frac{77}{233}, \frac{55}{233}, \frac{110}{233})$ $- \frac{308}{233}e^3 \otimes e_4$	{12358, 13789, 249, 457}
9531:210	$0, 0, 0, 0, \frac{41}{1564}\sqrt{62}e^{12}, \frac{41}{782}\sqrt{55}e^{34}, \frac{41}{1564}\sqrt{165}e^{15},$ $\frac{41}{1564}\sqrt{1130}e^{13} + \frac{41}{1564}\sqrt{165}e^{25}, \frac{41}{1564}\sqrt{474}e^{17} + \frac{41}{782}\sqrt{206}e^{36}$	$(\frac{41}{3128}, \frac{41}{184}, \frac{41}{92}, -\frac{246}{391}, \frac{369}{1564}, -\frac{287}{1564}, \frac{779}{3128}, \frac{1435}{3128}, \frac{205}{782})$ $+ \frac{41}{1564}\sqrt{2658}e^3 \otimes e_4$	{148, 247}
9531:210	$0, 0, 0, 0, \frac{4}{1241}\sqrt{1722}e^{12}, \frac{12}{1241}\sqrt{107}e^{34}, \frac{4}{1241}\sqrt{330}e^{15},$ $\frac{192}{1241}e^{13} + \frac{12}{1241}\sqrt{211}e^{25}, \frac{4}{1241}\sqrt{861}e^{17} + \frac{4}{1241}\sqrt{1722}e^{36}$	$(-\frac{8}{1241}, \frac{2}{73}, \frac{4}{73}, -\frac{126}{1241}, \frac{26}{1241}, -\frac{58}{1241}, \frac{18}{1241}, \frac{60}{1241}, \frac{10}{1241})$ $+ \frac{4}{1241}\sqrt{3138}e^2 \otimes e_9$	{123678, 134589}
9531:211	$0, 0, 0, 0, \frac{128}{4031}\sqrt{29}e^{12}, \frac{320}{4031}\sqrt{41}e^{34}, \frac{384}{4031}\sqrt{14}e^{15},$ $\frac{128}{4031}\sqrt{239}e^{13} + \frac{64}{4031}\sqrt{1193}e^{25}, \frac{64}{4031}\sqrt{667}e^{17} + \frac{192}{4031}\sqrt{174}e^{46}$	$(\frac{736}{4031}, -\frac{672}{4031}, -\frac{1344}{4031}, \frac{1440}{4031}, \frac{64}{4031}, \frac{96}{4031}, \frac{800}{4031}, -\frac{608}{4031}, \frac{1536}{4031})$ $+ \frac{64}{4031}\sqrt{3394}e^4 \otimes e_8$	{128, 467}
9531:211	$0, 0, 0, 0, \frac{54}{4217}\sqrt{1577}e^{12}, \frac{324}{4217}\sqrt{21}e^{34}, \frac{432}{4217}\sqrt{2}e^{15},$ $\frac{54}{4217}\sqrt{1563}e^{13} + \frac{108}{4217}\sqrt{471}e^{25}, \frac{54}{4217}\sqrt{1049}e^{17} + \frac{216}{4217}\sqrt{66}e^{46}$	$(-\frac{486}{4217}, \frac{756}{4217}, \frac{1512}{4217}, -\frac{1107}{4217}, \frac{270}{4217}, \frac{405}{4217}, -\frac{216}{4217}, \frac{1026}{4217}, -\frac{702}{4217})$ $+ \frac{108}{4217}\sqrt{878}e^2 \otimes e_9$	{134589, 135689}
9531:212	$0, 0, 0, 0, \frac{288}{773}e^{12}, \frac{128}{773}\sqrt{11}e^{34}, \frac{32}{773}\sqrt{130}e^{15},$ $\frac{224}{773}\sqrt{5}e^{13} + \frac{16}{773}\sqrt{170}e^{46}, \frac{16}{773}\sqrt{462}e^{17} + \frac{80}{773}\sqrt{42}e^{25}$	$(-\frac{32}{773}, -\frac{64}{773}, \frac{352}{773}, -\frac{16}{773}, -\frac{96}{773}, \frac{336}{773}, -\frac{128}{773}, \frac{320}{773}, -\frac{160}{773})$ $+ \frac{16}{773}\sqrt{2622}e^3 \otimes e_9$	{123457, 123567}
9531:212	$0, 0, 0, 0, \frac{9}{2269}\sqrt{1086}e^{12}, \frac{18}{2269}\sqrt{1722}e^{34}, \frac{72}{2269}\sqrt{39}e^{15},$ $\frac{45}{2269}\sqrt{282}e^{13} + \frac{18}{2269}\sqrt{1722}e^{46}, \frac{72}{2269}\sqrt{93}e^{17} + \frac{9}{2269}\sqrt{1722}e^{25}$	$(-\frac{54}{2269}, -\frac{108}{2269}, \frac{387}{2269}, -\frac{27}{2269}, -\frac{162}{2269}, \frac{360}{2269}, -\frac{216}{2269}, \frac{333}{2269}, -\frac{270}{2269})$ $+ \frac{9}{2269}\sqrt{11454}e^4 \otimes e_9$	{135689, 159}
9531:212	$0, 0, 0, 0, \frac{4}{37}\sqrt{15}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{2}{37}\sqrt{55}e^{15},$ $\frac{8}{37}\sqrt{5}e^{13} + \frac{2}{37}\sqrt{35}e^{46}, \frac{10}{37}\sqrt{3}e^{17} + \frac{2}{37}\sqrt{105}e^{25}$	$(\frac{2}{37}, \frac{4}{37}, -\frac{8}{37}, \frac{1}{37}, \frac{6}{37}, -\frac{7}{37}, \frac{8}{37}, -\frac{6}{37}, \frac{10}{37})$ $+ \frac{2}{37}\sqrt{165}e^2 \otimes e_8$	{145789, 156789}
9531:213	$0, 0, 0, 0, \frac{4}{287}\sqrt{165}e^{12}, \frac{2}{287}\sqrt{1758}e^{34}, \frac{2}{287}\sqrt{438}e^{15},$ $-\frac{2}{287}\sqrt{1830}e^{23} + \frac{2}{287}\sqrt{1758}e^{46}, \frac{2}{287}\sqrt{330}e^{17} + \frac{2}{287}\sqrt{1794}e^{25}$	$(-\frac{6}{287}, -\frac{12}{287}, \frac{46}{287}, -\frac{6}{287}, -\frac{18}{287}, \frac{40}{287}, -\frac{24}{287}, \frac{34}{287}, -\frac{30}{287})$ $+ \frac{4}{287}\sqrt{741}e^4 \otimes e_9$	{123689, 129, 23458, 2456, 123689, 129, 23458, 2456}
9531:213	$0, 0, 0, 0, \frac{4}{287}\sqrt{165}e^{12}, \frac{2}{287}\sqrt{1758}e^{34}, \frac{2}{287}\sqrt{438}e^{15},$ $\frac{2}{287}\sqrt{1830}e^{23} + \frac{2}{287}\sqrt{1758}e^{46}, \frac{2}{287}\sqrt{330}e^{17} + \frac{2}{287}\sqrt{1794}e^{25}$	$(-\frac{6}{287}, -\frac{12}{287}, \frac{46}{287}, -\frac{6}{287}, -\frac{18}{287}, \frac{40}{287}, -\frac{24}{287}, \frac{34}{287}, -\frac{30}{287})$ $+ \frac{4}{287}\sqrt{741}e^4 \otimes e_9$	{123689, 129, 23458, 2456, 123689, 129, 23458, 2456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:213	$0, 0, 0, 0, \frac{6}{53}e^{12}, \frac{4}{53}\sqrt{5}e^{34}, \frac{6}{53}\sqrt{11}e^{15},$ $-\frac{2}{53}\sqrt{89}e^{23} + \frac{2}{53}\sqrt{41}e^{46}, \frac{8}{53}\sqrt{6}e^{17} + \frac{2}{53}\sqrt{85}e^{25}$	$(\frac{2}{53}, \frac{4}{53}, -\frac{10}{53}, \frac{2}{53}, \frac{6}{53}, -\frac{8}{53}, \frac{8}{53}, -\frac{6}{53}, \frac{10}{53})$ $+\frac{2}{53}\sqrt{183}e^1 \otimes e_8$	{123467, 1237, 245789, 256789, 123467, 1237, 245789, 256789}
9531:213	$0, 0, 0, 0, \frac{6}{53}e^{12}, \frac{4}{53}\sqrt{5}e^{34}, \frac{6}{53}\sqrt{11}e^{15},$ $\frac{2}{53}\sqrt{89}e^{23} + \frac{2}{53}\sqrt{41}e^{46}, \frac{8}{53}\sqrt{6}e^{17} + \frac{2}{53}\sqrt{85}e^{25}$	$(\frac{2}{53}, \frac{4}{53}, -\frac{10}{53}, \frac{2}{53}, \frac{6}{53}, -\frac{8}{53}, \frac{8}{53}, -\frac{6}{53}, \frac{10}{53})$ $+\frac{2}{53}\sqrt{183}e^1 \otimes e_8$	{123467, 1237, 245789, 256789, 123467, 1237, 245789, 256789}
9531:222	$0, 0, 0, 0, -\frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{105}e^{13}, \frac{5}{173}\sqrt{590}e^{15}, \frac{5}{173}\sqrt{110}e^{16},$ $\frac{20}{173}\sqrt{30}e^{17} + \frac{5}{173}\sqrt{255}e^{25} + \frac{5}{173}\sqrt{15}e^{36}$	$(\frac{10}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{115}{173}, \frac{30}{173}, \frac{30}{173}, \frac{40}{173}, \frac{40}{173}, \frac{50}{173})$ $+\frac{60}{173}\sqrt{10}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579, 12378, 1267, 23456789, 24579}
9531:222	$0, 0, 0, 0, \frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{105}e^{13}, \frac{5}{173}\sqrt{590}e^{15}, \frac{5}{173}\sqrt{110}e^{16},$ $\frac{20}{173}\sqrt{30}e^{17} + \frac{5}{173}\sqrt{255}e^{25} + \frac{5}{173}\sqrt{15}e^{36}$	$(\frac{10}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{115}{173}, \frac{30}{173}, \frac{30}{173}, \frac{40}{173}, \frac{40}{173}, \frac{50}{173})$ $+\frac{60}{173}\sqrt{10}e^1 \otimes e_4$	{12378, 1267, 23456789, 24579, 12378, 1267, 23456789, 24579}
9531:222	$0, 0, 0, 0, -\frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{42}e^{15}, \frac{1}{7}\sqrt{70}e^{16},$ $\frac{2}{7}\sqrt{7}e^{17} + \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21}e^4 \otimes e_8$	{138, 146, 35689, 459, 138, 146, 35689, 459}
9531:222	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{42}e^{15}, \frac{1}{7}\sqrt{70}e^{16},$ $\frac{2}{7}\sqrt{7}e^{17} + \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21}e^4 \otimes e_8$	{138, 146, 35689, 459, 138, 146, 35689, 459}
9531:224	$0, 0, 0, 0, \frac{2}{61}\sqrt{183}e^{12}, \frac{1}{61}\sqrt{610}e^{13}, \frac{1}{61}\sqrt{366}e^{25}, \frac{2}{61}\sqrt{305}e^{16},$ $\frac{1}{61}\sqrt{2318}e^{15} + \frac{1}{61}\sqrt{854}e^{27} + \frac{1}{61}\sqrt{1830}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{1}{61}\sqrt{6222}e^4 \otimes e_9$	{134568, 145}
9531:224	$0, 0, 0, 0, \frac{110}{761}\sqrt{21}e^{12}, \frac{44}{761}\sqrt{65}e^{13}, \frac{11}{761}\sqrt{390}e^{25}, \frac{220}{761}\sqrt{3}e^{16},$ $\frac{11}{761}\sqrt{2390}e^{15} + \frac{11}{761}\sqrt{930}e^{27} + \frac{44}{761}\sqrt{30}e^{36}$	$(\frac{88}{761}, \frac{44}{761}, \frac{66}{761}, -\frac{517}{761}, \frac{132}{761}, \frac{154}{761}, \frac{176}{761}, \frac{242}{761}, \frac{220}{761})$ $+\frac{33}{761}\sqrt{710}e^1 \otimes e_4$	{23456789, 24579}
9531:224	$0, 0, 0, 0, \frac{18}{325}\sqrt{105}e^{12}, \frac{81}{325}\sqrt{13}e^{13}, \frac{18}{325}\sqrt{93}e^{25}, \frac{9}{325}\sqrt{267}e^{16},$ $\frac{9}{325}\sqrt{789}e^{15} + \frac{9}{325}\sqrt{267}e^{27} + \frac{63}{325}\sqrt{15}e^{36}$	$(\frac{36}{325}, \frac{18}{325}, \frac{27}{325}, -\frac{216}{325}, \frac{54}{325}, \frac{63}{325}, \frac{72}{325}, \frac{99}{325}, \frac{18}{65})$ $+\frac{9}{325}\sqrt{1623}e^3 \otimes e_4$	{123589, 124569}
9531:224	$0, 0, 0, 0, \frac{2}{31}\sqrt{186}e^{12}, \frac{2}{31}\sqrt{155}e^{13}, \frac{2}{31}\sqrt{93}e^{25}, \frac{2}{31}\sqrt{310}e^{16},$ $\frac{5}{31}\sqrt{31}e^{15} + \frac{1}{31}\sqrt{713}e^{27} + \frac{3}{31}\sqrt{31}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+\frac{1}{31}\sqrt{1581}e^4 \otimes e_8$	{138, 146}
9531:224	$0, 0, 0, 0, \frac{3}{1333}\sqrt{2022}e^{12}, \frac{12}{1333}\sqrt{174}e^{13}, \frac{24}{1333}\sqrt{69}e^{25},$ $\frac{6}{1333}\sqrt{1410}e^{16}, \frac{15}{1333}\sqrt{210}e^{15} + \frac{6}{1333}\sqrt{1410}e^{27} + \frac{15}{1333}\sqrt{66}e^{36}$	$(-\frac{12}{1333}, -\frac{6}{1333}, -\frac{9}{1333}, \frac{180}{1333}, -\frac{18}{1333}, -\frac{21}{1333}, -\frac{24}{1333}, -\frac{33}{1333}, -\frac{30}{1333})$ $+\frac{3}{1333}\sqrt{6918}e^2 \otimes e_8$	{1348, 138}
9531:224	$0, 0, 0, 0, \frac{689}{3997}\sqrt{6}e^{12}, \frac{53}{3997}\sqrt{890}e^{13}, \frac{53}{3997}\sqrt{3426}e^{25},$ $\frac{106}{3997}\sqrt{233}e^{16}, \frac{106}{3997}\sqrt{571}e^{15} + \frac{53}{3997}\sqrt{3130}e^{27} + \frac{159}{3997}\sqrt{14}e^{36}$	$(\frac{424}{3997}, \frac{212}{3997}, \frac{318}{3997}, -\frac{371}{571}, \frac{636}{3997}, \frac{106}{571}, \frac{848}{3997}, \frac{1166}{3997}, \frac{1060}{3997})$ $+\frac{53}{3997}\sqrt{6594}e^2 \otimes e_4$	{12378, 1267}
9531:240	$0, 0, 0, 0, \frac{6}{131}\sqrt{70}e^{12}, \frac{3}{131}\sqrt{70}e^{34}, \frac{30}{131}\sqrt{5}e^{15}, \frac{30}{131}\sqrt{5}e^{36},$ $\frac{3}{131}\sqrt{470}e^{17} + \frac{3}{131}\sqrt{190}e^{25} + \frac{3}{131}\sqrt{190}e^{46}$	$(\frac{6}{131}, \frac{12}{131}, -\frac{36}{131}, \frac{33}{131}, \frac{18}{131}, -\frac{3}{131}, \frac{24}{131}, -\frac{39}{131}, \frac{30}{131})$ $+\frac{30}{131}\sqrt{11}e^1 \otimes e_8$	{12367, 2456789}
9531:240	$0, 0, 0, 0, \frac{364}{1979}\sqrt{10}e^{12}, \frac{13}{1979}\sqrt{930}e^{34}, \frac{26}{1979}\sqrt{590}e^{15},$ $\frac{364}{1979}\sqrt{10}e^{36}, \frac{13}{1979}\sqrt{3730}e^{17} + \frac{13}{1979}\sqrt{9870}e^{25} + \frac{190}{1979}\sqrt{3730}e^{46}$	$(\frac{104}{1979}, \frac{208}{1979}, -\frac{598}{1979}, \frac{559}{1979}, \frac{312}{1979}, -\frac{39}{1979}, \frac{416}{1979}, -\frac{637}{1979}, \frac{520}{1979})$ $+\frac{130}{1979}\sqrt{170}e^2 \otimes e_8$	{1456789, 3478}
9531:282	$0, 0, 0, 0, \frac{14}{107}\sqrt{2}e^{12}, \frac{21}{107}\sqrt{14}e^{34}, \frac{21}{107}\sqrt{2}e^{15}, \frac{14}{107}\sqrt{33}e^{25},$ $\frac{14}{107}e^{17} + \frac{35}{107}\sqrt{2}e^{23} + \frac{14}{107}\sqrt{2}e^{46}$	$(\frac{21}{107}, -\frac{28}{107}, \frac{63}{107}, -\frac{14}{107}, -\frac{7}{107}, \frac{49}{107}, \frac{14}{107}, -\frac{35}{107}, \frac{35}{107})$ $+\frac{35}{107}\sqrt{14}e^3 \otimes e_8$	{145678, 1578, 3479, 3679}
9531:282	$0, 0, 0, 0, \frac{14}{107}\sqrt{2}e^{12}, \frac{21}{107}\sqrt{14}e^{34}, \frac{21}{107}\sqrt{2}e^{15}, \frac{14}{107}\sqrt{33}e^{25},$ $\frac{14}{107}e^{17} + \frac{35}{107}\sqrt{2}e^{23} + \frac{14}{107}\sqrt{2}e^{46}$	$(\frac{21}{107}, -\frac{28}{107}, \frac{63}{107}, -\frac{14}{107}, -\frac{7}{107}, \frac{49}{107}, \frac{14}{107}, -\frac{35}{107}, \frac{35}{107})$ $-\frac{35}{107}\sqrt{14}e^3 \otimes e_8$	{145678, 1578, 3479, 3679}
9531:282	$0, 0, 0, 0, \frac{28}{3893}\sqrt{946}e^{12}, \frac{28}{3893}\sqrt{2037}e^{34}, \frac{56}{3893}\sqrt{141}e^{15},$ $\frac{140}{3893}\sqrt{89}e^{25}, \frac{28}{3893}\sqrt{87}e^{17} + \frac{28}{3893}\sqrt{2218}e^{23} + \frac{28}{3893}\sqrt{2066}e^{46}$	$(\frac{14}{229}, -\frac{420}{3893}, \frac{42}{229}, -\frac{210}{3893}, -\frac{182}{3893}, \frac{504}{3893}, \frac{56}{3893}, -\frac{602}{3893}, \frac{294}{3893})$ $+\frac{112}{3893}\sqrt{210}e^4 \otimes e_8$	{128, 23459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:516	$0, 0, 0, 0, \frac{64}{1483}\sqrt{87}e^{12}, \frac{32}{1483}\sqrt{409}e^{34}, -\frac{32}{1483}\sqrt{435}e^{15}, \frac{32}{1483}\sqrt{78}e^{25}, \frac{64}{1483}\sqrt{87}e^{17} + \frac{32}{1483}\sqrt{165}e^{28}$	$(\frac{96}{1483}, \frac{96}{1483}, \frac{48}{1483}, -\frac{464}{1483}, \frac{192}{1483}, -\frac{416}{1483}, \frac{288}{1483}, \frac{288}{1483}, \frac{384}{1483}) + \frac{512}{1483}e^3 \otimes e_4 + \frac{96}{1483}\sqrt{114}e^1 \otimes e_6$	{2356789, 2456789, 368, 468, 2356789, 2456789, 368, 468}
9531:516	$0, 0, 0, 0, \frac{64}{1483}\sqrt{87}e^{12}, \frac{32}{1483}\sqrt{409}e^{34}, \frac{32}{1483}\sqrt{435}e^{15}, \frac{32}{1483}\sqrt{78}e^{25}, \frac{64}{1483}\sqrt{87}e^{17} + \frac{32}{1483}\sqrt{165}e^{28}$	$(\frac{96}{1483}, \frac{96}{1483}, \frac{48}{1483}, -\frac{464}{1483}, \frac{192}{1483}, -\frac{416}{1483}, \frac{288}{1483}, \frac{288}{1483}, \frac{384}{1483}) + \frac{512}{1483}e^3 \otimes e_4 + \frac{96}{1483}\sqrt{114}e^1 \otimes e_6$	{2356789, 2456789, 368, 468, 2356789, 2456789, 368, 468}
9531:516	$0, 0, 0, 0, \frac{4}{287}\sqrt{681}e^{12}, \frac{4}{287}\sqrt{1135}e^{34}, -\frac{2}{287}\sqrt{3405}e^{15}, \frac{2}{287}\sqrt{3405}e^{25}, \frac{4}{287}\sqrt{681}e^{17} + \frac{4}{287}\sqrt{681}e^{28}$	$(\frac{3}{41}, \frac{3}{41}, \frac{267}{287}, -\frac{187}{287}, \frac{6}{41}, \frac{80}{287}, \frac{9}{41}, \frac{9}{41}, \frac{12}{41}) + \frac{454}{287}e^3 \otimes e_4$	{123678, 124678, 135689, 145689, 36, 46, 123678, 124678, 135689, 145689, 36, 46}
9531:516	$0, 0, 0, 0, \frac{4}{287}\sqrt{681}e^{12}, \frac{4}{287}\sqrt{1135}e^{34}, \frac{2}{287}\sqrt{3405}e^{15}, \frac{2}{287}\sqrt{3405}e^{25}, \frac{4}{287}\sqrt{681}e^{17} + \frac{4}{287}\sqrt{681}e^{28}$	$(\frac{3}{41}, \frac{3}{41}, \frac{267}{287}, -\frac{187}{287}, \frac{6}{41}, \frac{80}{287}, \frac{9}{41}, \frac{9}{41}, \frac{12}{41}) + \frac{454}{287}e^3 \otimes e_4$	{123678, 124678, 135689, 145689, 36, 46, 123678, 124678, 135689, 145689, 36, 46}
9531:516	$0, 0, 0, 0, \frac{64}{1227}\sqrt{87}e^{12}, \frac{32}{1227}\sqrt{409}e^{34}, -\frac{32}{1227}\sqrt{435}e^{15}, \frac{32}{1227}\sqrt{78}e^{25}, \frac{64}{1227}\sqrt{87}e^{17} + \frac{32}{1227}\sqrt{165}e^{28}$	$(\frac{32}{409}, \frac{32}{409}, -\frac{208}{1227}, -\frac{208}{1227}, \frac{64}{409}, -\frac{416}{1227}, \frac{96}{409}, \frac{96}{409}, \frac{128}{409}) + \frac{32}{409}\sqrt{114}e^1 \otimes e_6$	{12347, 127, 13459, 159, 2356789, 368, 12347, 127, 13459, 159, 2356789, 368}
9531:516	$0, 0, 0, 0, \frac{64}{1227}\sqrt{87}e^{12}, \frac{32}{1227}\sqrt{409}e^{34}, \frac{32}{1227}\sqrt{435}e^{15}, \frac{32}{1227}\sqrt{78}e^{25}, \frac{64}{1227}\sqrt{87}e^{17} + \frac{32}{1227}\sqrt{165}e^{28}$	$(\frac{32}{409}, \frac{32}{409}, -\frac{208}{1227}, -\frac{208}{1227}, \frac{64}{409}, -\frac{416}{1227}, \frac{96}{409}, \frac{96}{409}, \frac{128}{409}) + \frac{32}{409}\sqrt{114}e^1 \otimes e_6$	{12347, 127, 13459, 159, 2356789, 368, 12347, 127, 13459, 159, 2356789, 368}
9531:516	$0, 0, 0, 0, \frac{2}{303}\sqrt{4407}e^{12}, \frac{2}{303}\sqrt{11413}e^{34}, -\frac{1}{101}\sqrt{678}e^{15}, \frac{1}{101}\sqrt{678}e^{25}, \frac{1}{101}\sqrt{4294}e^{17} + \frac{1}{101}\sqrt{4294}e^{28}$	$(-\frac{2}{101}, -\frac{2}{101}, \frac{2}{3}, -\frac{47}{303}, -\frac{4}{101}, \frac{155}{303}, -\frac{6}{101}, -\frac{6}{101}, -\frac{8}{101}) + \frac{2}{303}\sqrt{28137}e^3 \otimes e_9$	{124569, 1259, 1347, 1367, 456789, 5789, 124569, 1259, 1347, 1367, 456789, 5789}
9531:516	$0, 0, 0, 0, \frac{2}{303}\sqrt{4407}e^{12}, \frac{2}{303}\sqrt{11413}e^{34}, \frac{1}{101}\sqrt{678}e^{15}, \frac{1}{101}\sqrt{678}e^{25}, \frac{1}{101}\sqrt{4294}e^{17} + \frac{1}{101}\sqrt{4294}e^{28}$	$(-\frac{2}{101}, -\frac{2}{101}, \frac{2}{3}, -\frac{47}{303}, -\frac{4}{101}, \frac{155}{303}, -\frac{6}{101}, -\frac{6}{101}, -\frac{8}{101}) + \frac{2}{303}\sqrt{28137}e^3 \otimes e_9$	{124569, 1259, 1347, 1367, 456789, 5789, 124569, 1259, 1347, 1367, 456789, 5789}
9531:518	$0, 0, 0, 0, \frac{2}{81}\sqrt{57}e^{12}, \frac{2}{81}\sqrt{266}e^{13}, -\frac{1}{81}\sqrt{570}e^{15}, \frac{2}{81}\sqrt{247}e^{25}, \frac{2}{81}\sqrt{114}e^{17} + \frac{1}{81}\sqrt{1102}e^{28}$	$(\frac{2}{81}, \frac{2}{81}, -\frac{19}{81}, \frac{1}{3}, \frac{4}{81}, -\frac{17}{81}, \frac{2}{27}, \frac{2}{27}, \frac{8}{81}) + \frac{2}{27}\sqrt{19}e^4 \otimes e_9 + \frac{2}{27}\sqrt{57}e^2 \otimes e_6$	{12348, 156789, 259, 3467, 12348, 156789, 259, 3467}
9531:518	$0, 0, 0, 0, \frac{2}{81}\sqrt{57}e^{12}, \frac{2}{81}\sqrt{266}e^{13}, \frac{1}{81}\sqrt{570}e^{15}, \frac{2}{81}\sqrt{247}e^{25}, \frac{2}{81}\sqrt{114}e^{17} + \frac{1}{81}\sqrt{1102}e^{28}$	$(\frac{2}{81}, \frac{2}{81}, -\frac{19}{81}, \frac{1}{3}, \frac{4}{81}, -\frac{17}{81}, \frac{2}{27}, \frac{2}{27}, \frac{8}{81}) + \frac{2}{27}\sqrt{19}e^4 \otimes e_9 + \frac{2}{27}\sqrt{57}e^2 \otimes e_6$	{12348, 156789, 259, 3467, 12348, 156789, 259, 3467}
9531:518	$0, 0, 0, 0, \frac{6}{445}\sqrt{70}e^{12}, \frac{3}{445}\sqrt{2110}e^{13}, -\frac{3}{445}\sqrt{1045}e^{15}, \frac{3}{445}\sqrt{1405}e^{25}, \frac{3}{445}\sqrt{1115}e^{17} + \frac{3}{445}\sqrt{1335}e^{28}$	$(\frac{3}{89}, \frac{3}{89}, -\frac{9}{89}, -\frac{18}{89}, \frac{6}{89}, -\frac{6}{89}, \frac{9}{89}, \frac{9}{89}, \frac{12}{89}) + \frac{48}{445}\sqrt{5}e^3 \otimes e_4 + \frac{9}{445}\sqrt{310}e^2 \otimes e_6$	{1238, 1456789, 2459, 367, 1238, 1456789, 2459, 367}
9531:518	$0, 0, 0, 0, \frac{6}{445}\sqrt{70}e^{12}, \frac{3}{445}\sqrt{2110}e^{13}, \frac{3}{445}\sqrt{1045}e^{15}, \frac{3}{445}\sqrt{1405}e^{25}, \frac{3}{445}\sqrt{1115}e^{17} + \frac{3}{445}\sqrt{1335}e^{28}$	$(\frac{3}{89}, \frac{3}{89}, -\frac{9}{89}, -\frac{18}{89}, \frac{6}{89}, -\frac{6}{89}, \frac{9}{89}, \frac{9}{89}, \frac{12}{89}) + \frac{48}{445}\sqrt{5}e^3 \otimes e_4 + \frac{9}{445}\sqrt{310}e^2 \otimes e_6$	{1238, 1456789, 2459, 367, 1238, 1456789, 2459, 367}
9531:518	$0, 0, 0, 0, \frac{342}{821}\sqrt{2}e^{12}, \frac{19}{821}\sqrt{626}e^{13}, -\frac{171}{821}\sqrt{10}e^{15}, \frac{19}{821}\sqrt{210}e^{25}, \frac{342}{821}\sqrt{2}e^{17} + \frac{38}{821}\sqrt{93}e^{28}$	$(\frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{114}{821}, -\frac{247}{821}, \frac{171}{821}, \frac{171}{821}, \frac{228}{821}) + \frac{19}{821}\sqrt{1414}e^1 \otimes e_3 + \frac{76}{821}\sqrt{3}e^4 \otimes e_6$	{1247, 1459, 2345789, 348, 1247, 1459, 2345789, 348}
9531:518	$0, 0, 0, 0, \frac{342}{821}\sqrt{2}e^{12}, \frac{19}{821}\sqrt{626}e^{13}, \frac{171}{821}\sqrt{10}e^{15}, \frac{19}{821}\sqrt{210}e^{25}, \frac{342}{821}\sqrt{2}e^{17} + \frac{38}{821}\sqrt{93}e^{28}$	$(\frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{114}{821}, -\frac{247}{821}, \frac{171}{821}, \frac{171}{821}, \frac{228}{821}) + \frac{19}{821}\sqrt{1414}e^1 \otimes e_3 + \frac{76}{821}\sqrt{3}e^4 \otimes e_6$	{1247, 1459, 2345789, 348, 1247, 1459, 2345789, 348}
9531:518	$0, 0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{14}{37}e^{13}, -\frac{2}{37}\sqrt{10}e^{15}, \frac{2}{37}\sqrt{39}e^{25}, \frac{2}{37}\sqrt{17}e^{17} + \frac{8}{37}\sqrt{2}e^{28}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, -\frac{6}{37}, \frac{4}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37}) + \frac{2}{37}\sqrt{41}e^1 \otimes e_4 + \frac{6}{37}\sqrt{10}e^2 \otimes e_6$	{1238, 156789, 2459, 3467, 1238, 156789, 2459, 3467}
9531:518	$0, 0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{14}{37}e^{13}, \frac{2}{37}\sqrt{10}e^{15}, \frac{2}{37}\sqrt{39}e^{25}, \frac{2}{37}\sqrt{17}e^{17} + \frac{8}{37}\sqrt{2}e^{28}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, -\frac{6}{37}, \frac{4}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{8}{37}) + \frac{2}{37}\sqrt{41}e^1 \otimes e_4 + \frac{6}{37}\sqrt{10}e^2 \otimes e_6$	{1238, 156789, 2459, 3467, 1238, 156789, 2459, 3467}
9531:518	$0, 0, 0, 0, \frac{12}{785}\sqrt{1007}e^{12}, \frac{12}{785}\sqrt{4558}e^{13}, -\frac{6}{785}\sqrt{5035}e^{15}, \frac{6}{785}\sqrt{4081}e^{25}, \frac{12}{785}\sqrt{1007}e^{17} + \frac{24}{785}\sqrt{318}e^{28}$	$(\frac{39}{785}, \frac{39}{785}, \frac{441}{785}, -\frac{513}{785}, \frac{78}{785}, \frac{96}{785}, \frac{117}{785}, \frac{117}{785}, \frac{156}{785}) + \frac{6}{785}\sqrt{34397}e^3 \otimes e_4$	{123579, 1245679, 13, 146, 23678, 2478, 35689, 4589, 123579, 1245679, 13, 146, 23678, 2478, 35689, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:518	$0, 0, 0, 0, \frac{12}{785}\sqrt{1007}e^{12}, \frac{12}{785}\sqrt{4558}e^{13}, \frac{6}{785}\sqrt{5035}e^{15}, \frac{6}{785}\sqrt{4081}e^{25},$ $\frac{12}{785}\sqrt{1007}e^{17} + \frac{24}{785}\sqrt{318}e^{28}$	$(\frac{39}{785}, \frac{39}{785}, \frac{441}{785}, -\frac{513}{785}, \frac{78}{785}, \frac{96}{157}, \frac{117}{785}, \frac{117}{785}, \frac{156}{785})$ $+ \frac{6}{785}\sqrt{34397}e^3 \otimes e_4$	{123579, 1245679, 13, 146, 23678, 2478, 35689, 4589, 123579, 1245679, 13, 146, 23678, 2478, 35689, 4589}
9531:518	$0, 0, 0, 0, \frac{2}{379}\sqrt{13026}e^{12}, \frac{1}{379}\sqrt{51770}e^{13}, -\frac{1}{379}\sqrt{65130}e^{15},$ $\frac{1}{379}\sqrt{17034}e^{25}, \frac{2}{379}\sqrt{13026}e^{17} + \frac{6}{379}\sqrt{835}e^{28}$	$(\frac{27}{379}, \frac{27}{379}, -\frac{140}{379}, \frac{42}{379}, \frac{54}{379}, -\frac{113}{379}, \frac{81}{379}, \frac{81}{379}, \frac{108}{379})$ $+ \frac{1}{379}\sqrt{112558}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38, 1247, 127, 1459, 159, 2345789, 235789, 348, 38}
9531:518	$0, 0, 0, 0, \frac{2}{379}\sqrt{13026}e^{12}, \frac{1}{379}\sqrt{51770}e^{13}, \frac{1}{379}\sqrt{65130}e^{15},$ $\frac{1}{379}\sqrt{17034}e^{25}, \frac{2}{379}\sqrt{13026}e^{17} + \frac{6}{379}\sqrt{835}e^{28}$	$(\frac{27}{379}, \frac{27}{379}, -\frac{140}{379}, \frac{42}{379}, \frac{54}{379}, -\frac{113}{379}, \frac{81}{379}, \frac{81}{379}, \frac{108}{379})$ $+ \frac{1}{379}\sqrt{112558}e^1 \otimes e_3$	{1247, 127, 1459, 159, 2345789, 235789, 348, 38, 1247, 127, 1459, 159, 2345789, 235789, 348, 38}
9531:518	$0, 0, 0, 0, \frac{42}{1651}\sqrt{199}e^{12}, \frac{210}{1651}\sqrt{10}e^{13}, -\frac{42}{1651}\sqrt{307}e^{15},$ $\frac{21}{1651}\sqrt{314}e^{25}, \frac{21}{1651}\sqrt{1262}e^{17} + \frac{42}{1651}\sqrt{70}e^{28}$	$(\frac{42}{1651}, \frac{42}{1651}, -\frac{399}{1651}, \frac{609}{1651}, \frac{84}{1651}, -\frac{357}{1651}, \frac{126}{1651}, \frac{126}{1651}, \frac{168}{1651})$ $+ \frac{42}{1651}\sqrt{233}e^4 \otimes e_9 + \frac{42}{1651}\sqrt{521}e^1 \otimes e_3$	{1247, 159, 235789, 348, 1247, 159, 235789, 348}
9531:518	$0, 0, 0, 0, \frac{42}{1651}\sqrt{199}e^{12}, \frac{210}{1651}\sqrt{10}e^{13}, \frac{42}{1651}\sqrt{307}e^{15},$ $\frac{21}{1651}\sqrt{314}e^{25}, \frac{21}{1651}\sqrt{1262}e^{17} + \frac{42}{1651}\sqrt{70}e^{28}$	$(\frac{42}{1651}, \frac{42}{1651}, -\frac{399}{1651}, \frac{609}{1651}, \frac{84}{1651}, -\frac{357}{1651}, \frac{126}{1651}, \frac{126}{1651}, \frac{168}{1651})$ $+ \frac{42}{1651}\sqrt{233}e^4 \otimes e_9 + \frac{42}{1651}\sqrt{521}e^1 \otimes e_3$	{1247, 159, 235789, 348, 1247, 159, 235789, 348}
9531:518	$0, 0, 0, 0, \frac{1}{405}\sqrt{44574}e^{12}, \frac{2}{405}\sqrt{874}e^{13}, -\frac{1}{405}\sqrt{17043}e^{15},$ $\frac{1}{405}\sqrt{15295}e^{25}, \frac{1}{405}\sqrt{100947}e^{17} + \frac{1}{405}\sqrt{99199}e^{28}$	$(-\frac{8}{405}, -\frac{8}{405}, \frac{76}{405}, 1, -\frac{16}{405}, \frac{68}{405}, -\frac{8}{135}, -\frac{8}{135}, -\frac{32}{405})$ $+ \frac{1}{135}\sqrt{32338}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789, 123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:518	$0, 0, 0, 0, \frac{1}{405}\sqrt{44574}e^{12}, \frac{2}{405}\sqrt{874}e^{13}, \frac{1}{405}\sqrt{17043}e^{15}, \frac{1}{405}\sqrt{15295}e^{25},$ $\frac{1}{405}\sqrt{100947}e^{17} + \frac{1}{405}\sqrt{99199}e^{28}$	$(-\frac{8}{405}, -\frac{8}{405}, \frac{76}{405}, 1, -\frac{16}{405}, \frac{68}{405}, -\frac{8}{135}, -\frac{8}{135}, -\frac{32}{405})$ $+ \frac{1}{135}\sqrt{32338}e^4 \otimes e_9$	{123569, 1259, 13467, 147, 2348, 2468, 35789, 56789, 123569, 1259, 13467, 147, 2348, 2468, 35789, 56789}
9531:518	$0, 0, 0, 0, \frac{14}{103}\sqrt{22}e^{12}, \frac{2}{103}\sqrt{154}e^{13}, -\frac{4}{103}\sqrt{77}e^{15}, \frac{1}{103}\sqrt{5698}e^{25},$ $\frac{1}{103}\sqrt{2310}e^{17} + \frac{2}{103}\sqrt{1155}e^{28}$	$(\frac{8}{103}, \frac{8}{103}, \frac{13}{103}, -\frac{69}{103}, \frac{16}{103}, \frac{21}{103}, \frac{24}{103}, \frac{24}{103}, \frac{32}{103})$ $+ \frac{2}{103}\sqrt{3311}e^2 \otimes e_4$	{1238, 1268, 1345789, 1456789, 23569, 259, 3467, 47, 1238, 1268, 1345789, 1456789, 23569, 259, 3467, 47}
9531:518	$0, 0, 0, 0, \frac{14}{103}\sqrt{22}e^{12}, \frac{2}{103}\sqrt{154}e^{13}, \frac{4}{103}\sqrt{77}e^{15}, \frac{1}{103}\sqrt{5698}e^{25},$ $\frac{1}{103}\sqrt{2310}e^{17} + \frac{2}{103}\sqrt{1155}e^{28}$	$(\frac{8}{103}, \frac{8}{103}, \frac{13}{103}, -\frac{69}{103}, \frac{16}{103}, \frac{21}{103}, \frac{24}{103}, \frac{24}{103}, \frac{32}{103})$ $+ \frac{2}{103}\sqrt{3311}e^2 \otimes e_4$	{1238, 1268, 1345789, 1456789, 23569, 259, 3467, 47, 1238, 1268, 1345789, 1456789, 23569, 259, 3467, 47}
9531:518	$0, 0, 0, 0, \frac{2}{405}\sqrt{3990}e^{12}, \frac{1}{405}\sqrt{49742}e^{13}, -\frac{1}{405}\sqrt{26733}e^{15},$ $\frac{1}{405}\sqrt{44821}e^{25}, \frac{7}{405}\sqrt{627}e^{17} + \frac{1}{405}\sqrt{40831}e^{28}$	$(\frac{23}{405}, \frac{23}{405}, -\frac{133}{405}, \frac{2}{15}, \frac{46}{405}, -\frac{22}{81}, \frac{23}{135}, \frac{23}{135}, \frac{92}{405})$ $+ \frac{1}{135}\sqrt{10374}e^2 \otimes e_6$	{12348, 1238, 1456789, 156789, 2459, 259, 3467, 367, 12348, 1238, 1456789, 156789, 2459, 259, 3467, 367}
9531:518	$0, 0, 0, 0, \frac{2}{405}\sqrt{3990}e^{12}, \frac{1}{405}\sqrt{49742}e^{13}, \frac{1}{405}\sqrt{26733}e^{15},$ $\frac{1}{405}\sqrt{44821}e^{25}, \frac{7}{405}\sqrt{627}e^{17} + \frac{1}{405}\sqrt{40831}e^{28}$	$(\frac{23}{405}, \frac{23}{405}, -\frac{133}{405}, \frac{2}{15}, \frac{46}{405}, -\frac{22}{81}, \frac{23}{135}, \frac{23}{135}, \frac{92}{405})$ $+ \frac{1}{135}\sqrt{10374}e^2 \otimes e_6$	{12348, 1238, 1456789, 156789, 2459, 259, 3467, 367, 12348, 1238, 1456789, 156789, 2459, 259, 3467, 367}
9531:518	$0, 0, 0, 0, \frac{14}{103}\sqrt{22}e^{12}, \frac{2}{103}\sqrt{154}e^{13}, -\frac{7}{103}\sqrt{110}e^{15}, \frac{2}{103}\sqrt{231}e^{25},$ $\frac{14}{103}\sqrt{22}e^{17} + \frac{1}{103}\sqrt{2002}e^{28}$	$(\frac{8}{103}, \frac{8}{103}, \frac{13}{103}, -\frac{69}{103}, \frac{16}{103}, \frac{21}{103}, \frac{24}{103}, \frac{24}{103}, \frac{32}{103})$ $+ \frac{2}{103}\sqrt{3311}e^1 \otimes e_4$	{1237, 1267, 1359, 1569, 23456789, 245789, 3468, 48, 1237, 1267, 1359, 1569, 23456789, 245789, 3468, 48}
9531:518	$0, 0, 0, 0, \frac{14}{103}\sqrt{22}e^{12}, \frac{2}{103}\sqrt{154}e^{13}, \frac{7}{103}\sqrt{110}e^{15}, \frac{2}{103}\sqrt{231}e^{25},$ $\frac{14}{103}\sqrt{22}e^{17} + \frac{1}{103}\sqrt{2002}e^{28}$	$(\frac{8}{103}, \frac{8}{103}, \frac{13}{103}, -\frac{69}{103}, \frac{16}{103}, \frac{21}{103}, \frac{24}{103}, \frac{24}{103}, \frac{32}{103})$ $+ \frac{2}{103}\sqrt{3311}e^1 \otimes e_4$	{1237, 1267, 1359, 1569, 23456789, 245789, 3468, 48, 1237, 1267, 1359, 1569, 23456789, 245789, 3468, 48}
9531:518	$0, 0, 0, 0, \frac{12}{785}\sqrt{1007}e^{12}, \frac{12}{785}\sqrt{4558}e^{13}, -\frac{6}{785}\sqrt{5035}e^{15},$ $\frac{6}{785}\sqrt{4081}e^{25}, \frac{12}{785}\sqrt{1007}e^{17} + \frac{24}{785}\sqrt{318}e^{28}$	$(\frac{39}{785}, \frac{39}{785}, -\frac{208}{785}, 1, \frac{78}{785}, -\frac{169}{785}, \frac{117}{785}, \frac{117}{785}, \frac{156}{785})$ $+ \frac{6}{785}\sqrt{34397}e^4 \otimes e_6$	{1234579, 125679, 134, 16, 23678, 2478, 35689, 4589, 1234579, 125679, 134, 16, 23678, 2478, 35689, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:518	$0, 0, 0, 0, \frac{12}{785}\sqrt{1007}e^{12}, \frac{12}{785}\sqrt{4558}e^{13}, \frac{6}{785}\sqrt{5035}e^{15}, \frac{6}{785}\sqrt{4081}e^{25},$ $\frac{12}{785}\sqrt{1007}e^{17} + \frac{24}{785}\sqrt{318}e^{28}$	$(\frac{39}{785}, \frac{39}{785}, -\frac{208}{785}, 1, \frac{78}{785}, -\frac{169}{785}, \frac{117}{785}, \frac{117}{785}, \frac{156}{785})$ $+ \frac{6}{785}\sqrt{34397}e^4 \otimes e_6$	{1234579, 125679, 134, 16, 23678, 2478, 35689, 4589, 1234579, 125679, 134, 16, 23678, 2478, 35689, 4589}
9531:518	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{10}{11}e^{13}, -\frac{2}{11}\sqrt{21}e^{15}, \frac{1}{11}\sqrt{66}e^{25},$ $\frac{1}{11}\sqrt{78}e^{17} + \frac{6}{11}\sqrt{2}e^{28}$	$(0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0, 0)$ $+ \frac{2}{11}\sqrt{23}e^1 \otimes e_3 + \frac{6}{11}\sqrt{3}e^2 \otimes e_6$	{1234579, 123579, 2478, 278, 1234579, 123579, 2478, 278}
9531:518	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{10}{11}e^{13}, \frac{2}{11}\sqrt{21}e^{15}, \frac{1}{11}\sqrt{66}e^{25},$ $\frac{1}{11}\sqrt{78}e^{17} + \frac{6}{11}\sqrt{2}e^{28}$	$(0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0, 0)$ $+ \frac{2}{11}\sqrt{23}e^1 \otimes e_3 + \frac{6}{11}\sqrt{3}e^2 \otimes e_6$	{1234579, 123579, 2478, 278, 1234579, 123579, 2478, 278}
9531:520	$0, 0, 0, 0, \frac{2}{81}\sqrt{57}e^{12}, \frac{2}{81}\sqrt{437}e^{13}, -\frac{4}{81}\sqrt{57}e^{15}, \frac{1}{81}\sqrt{1330}e^{25},$ $\frac{1}{81}\sqrt{798}e^{17} + \frac{38}{81}e^{28} + \frac{2}{27}\sqrt{19}e^{34}$	$(\frac{2}{81}, \frac{2}{81}, -\frac{19}{81}, \frac{1}{3}, \frac{4}{81}, -\frac{17}{81}, \frac{2}{27}, \frac{2}{27}, \frac{8}{81})$ $+ \frac{4}{27}\sqrt{19}e^2 \otimes e_6$	{1238, 156789, 259, 367, 1238, 156789, 259, 367}
9531:520	$0, 0, 0, 0, \frac{2}{81}\sqrt{57}e^{12}, \frac{2}{81}\sqrt{437}e^{13}, \frac{4}{81}\sqrt{57}e^{15}, \frac{1}{81}\sqrt{1330}e^{25},$ $\frac{1}{81}\sqrt{798}e^{17} + \frac{38}{81}e^{28} + \frac{2}{27}\sqrt{19}e^{34}$	$(\frac{2}{81}, \frac{2}{81}, -\frac{19}{81}, \frac{1}{3}, \frac{4}{81}, -\frac{17}{81}, \frac{2}{27}, \frac{2}{27}, \frac{8}{81})$ $+ \frac{4}{27}\sqrt{19}e^2 \otimes e_6$	{1238, 156789, 259, 367, 1238, 156789, 259, 367}
9531:520	$0, 0, 0, 0, \frac{14}{251}\sqrt{114}e^{12}, \frac{112}{251}\sqrt{6}e^{13}, -\frac{14}{251}\sqrt{114}e^{15}, \frac{14}{251}\sqrt{78}e^{25},$ $\frac{14}{251}\sqrt{57}e^{17} + \frac{42}{251}\sqrt{15}e^{28} + \frac{14}{251}\sqrt{114}e^{34}$	$(\frac{7}{251}, \frac{7}{251}, \frac{161}{251}, -\frac{133}{251}, \frac{14}{251}, \frac{168}{251}, \frac{21}{251}, \frac{21}{251}, \frac{28}{251})$ $+ \frac{14}{251}\sqrt{633}e^3 \otimes e_4$	{13, 146, 23678, 2478, 13, 146, 23678, 2478}
9531:520	$0, 0, 0, 0, \frac{14}{251}\sqrt{114}e^{12}, \frac{112}{251}\sqrt{6}e^{13}, \frac{14}{251}\sqrt{114}e^{15}, \frac{14}{251}\sqrt{78}e^{25},$ $\frac{14}{251}\sqrt{57}e^{17} + \frac{42}{251}\sqrt{15}e^{28} + \frac{14}{251}\sqrt{114}e^{34}$	$(\frac{7}{251}, \frac{7}{251}, \frac{161}{251}, -\frac{133}{251}, \frac{14}{251}, \frac{168}{251}, \frac{21}{251}, \frac{21}{251}, \frac{28}{251})$ $+ \frac{14}{251}\sqrt{633}e^3 \otimes e_4$	{13, 146, 23678, 2478, 13, 146, 23678, 2478}
9531:520	$0, 0, 0, 0, \frac{41}{1569}\sqrt{26}e^{12}, \frac{82}{1569}\sqrt{251}e^{13}, -\frac{123}{1569}\sqrt{3}e^{15}, \frac{41}{1569}\sqrt{259}e^{25},$ $\frac{41}{1569}\sqrt{447}e^{17} + \frac{41}{1569}\sqrt{55}e^{28} + \frac{41}{1569}\sqrt{842}e^{34}$	$(\frac{41}{523}, \frac{41}{523}, -\frac{656}{1569}, \frac{1148}{1569}, \frac{82}{523}, -\frac{533}{1569}, \frac{123}{523}, \frac{123}{523}, \frac{164}{523})$ $+ \frac{82}{1569}\sqrt{651}e^4 \otimes e_6$	{134, 16, 35689, 4589, 134, 16, 35689, 4589}
9531:520	$0, 0, 0, 0, \frac{41}{1569}\sqrt{26}e^{12}, \frac{82}{1569}\sqrt{251}e^{13}, \frac{123}{523}\sqrt{3}e^{15}, \frac{41}{1569}\sqrt{259}e^{25},$ $\frac{41}{1569}\sqrt{447}e^{17} + \frac{41}{1569}\sqrt{55}e^{28} + \frac{41}{1569}\sqrt{842}e^{34}$	$(\frac{41}{523}, \frac{41}{523}, -\frac{656}{1569}, \frac{1148}{1569}, \frac{82}{523}, -\frac{533}{1569}, \frac{123}{523}, \frac{123}{523}, \frac{164}{523})$ $+ \frac{82}{1569}\sqrt{651}e^4 \otimes e_6$	{134, 16, 35689, 4589, 134, 16, 35689, 4589}
9531:522	$0, 0, 0, 0, \frac{36}{283}\sqrt{13}e^{12}, \frac{18}{283}\sqrt{82}e^{13} + \frac{9}{283}\sqrt{182}e^{24}, -\frac{27}{283}\sqrt{39}e^{15},$ $\frac{9}{283}\sqrt{159}e^{25}, \frac{9}{283}\sqrt{299}e^{17} + \frac{9}{283}\sqrt{211}e^{28}$	$(\frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{36}{283}, -\frac{45}{283}, \frac{54}{283}, \frac{54}{283}, \frac{72}{283})$ $+ \frac{9}{283}\sqrt{510}e^1 \otimes e_3$	{1247, 159, 2345789, 38, 1247, 159, 2345789, 38}
9531:522	$0, 0, 0, 0, \frac{36}{283}\sqrt{13}e^{12}, \frac{18}{283}\sqrt{82}e^{13} + \frac{9}{283}\sqrt{182}e^{24}, \frac{27}{283}\sqrt{39}e^{15},$ $\frac{9}{283}\sqrt{159}e^{25}, \frac{9}{283}\sqrt{299}e^{17} + \frac{9}{283}\sqrt{211}e^{28}$	$(\frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{36}{283}, -\frac{45}{283}, \frac{54}{283}, \frac{54}{283}, \frac{72}{283})$ $+ \frac{9}{283}\sqrt{510}e^1 \otimes e_3$	{1247, 159, 2345789, 38, 1247, 159, 2345789, 38}
9531:532	$0, 0, 0, 0, \frac{273}{1865}\sqrt{2}e^{12}, \frac{78}{1865}\sqrt{433}e^{13}, -\frac{39}{1865}\sqrt{505}e^{15}, \frac{741}{1865}e^{25},$ $\frac{39}{1865}\sqrt{863}e^{17} + \frac{39}{1865}\sqrt{3}e^{28} + \frac{117}{1865}\sqrt{170}e^{36}$	$(\frac{156}{1865}, \frac{156}{1865}, \frac{234}{1865}, -\frac{1287}{1865}, \frac{312}{1865}, \frac{78}{373}, \frac{468}{1865}, \frac{468}{1865}, \frac{624}{1865})$ $+ \frac{156}{1865}\sqrt{197}e^3 \otimes e_4$	{123579, 1245679, 23678, 2478, 123579, 1245679, 23678, 2478}
9531:532	$0, 0, 0, 0, \frac{273}{1865}\sqrt{2}e^{12}, \frac{78}{1865}\sqrt{433}e^{13}, \frac{39}{1865}\sqrt{505}e^{15}, \frac{741}{1865}e^{25},$ $\frac{39}{1865}\sqrt{863}e^{17} + \frac{39}{1865}\sqrt{3}e^{28} + \frac{117}{1865}\sqrt{170}e^{36}$	$(\frac{156}{1865}, \frac{156}{1865}, \frac{234}{1865}, -\frac{1287}{1865}, \frac{312}{1865}, \frac{78}{373}, \frac{468}{1865}, \frac{468}{1865}, \frac{624}{1865})$ $+ \frac{156}{1865}\sqrt{197}e^3 \otimes e_4$	{123579, 1245679, 23678, 2478, 123579, 1245679, 23678, 2478}
9531:532	$0, 0, 0, 0, \frac{38}{483}\sqrt{66}e^{12}, \frac{19}{483}\sqrt{38}e^{13}, -\frac{38}{483}\sqrt{82}e^{15}, \frac{38}{483}\sqrt{14}e^{25},$ $\frac{38}{483}\sqrt{65}e^{17} + \frac{38}{483}\sqrt{31}e^{28} + \frac{38}{483}\sqrt{2}e^{36}$	$(\frac{38}{483}, \frac{38}{483}, \frac{19}{161}, -\frac{323}{483}, \frac{76}{483}, \frac{95}{483}, \frac{38}{161}, \frac{38}{161}, \frac{152}{483})$ $+ \frac{19}{483}\sqrt{806}e^1 \otimes e_4$	{1359, 1569, 3468, 48, 1359, 1569, 3468, 48}
9531:532	$0, 0, 0, 0, \frac{38}{483}\sqrt{66}e^{12}, \frac{19}{483}\sqrt{38}e^{13}, \frac{38}{483}\sqrt{82}e^{15}, \frac{38}{483}\sqrt{14}e^{25},$ $\frac{38}{483}\sqrt{65}e^{17} + \frac{38}{483}\sqrt{31}e^{28} + \frac{38}{483}\sqrt{2}e^{36}$	$(\frac{38}{483}, \frac{38}{483}, \frac{19}{161}, -\frac{323}{483}, \frac{76}{483}, \frac{95}{483}, \frac{38}{161}, \frac{38}{161}, \frac{152}{483})$ $+ \frac{19}{483}\sqrt{806}e^1 \otimes e_4$	{1359, 1569, 3468, 48, 1359, 1569, 3468, 48}
9531:532	$0, 0, 0, 0, \frac{38}{483}\sqrt{66}e^{12}, \frac{19}{483}\sqrt{38}e^{13}, -\frac{95}{483}\sqrt{3}e^{15}, \frac{19}{483}\sqrt{347}e^{25},$ $\frac{19}{483}\sqrt{143}e^{17} + \frac{19}{161}\sqrt{31}e^{28} + \frac{38}{483}\sqrt{2}e^{36}$	$(\frac{38}{483}, \frac{38}{483}, \frac{19}{161}, -\frac{323}{483}, \frac{76}{483}, \frac{95}{483}, \frac{38}{161}, \frac{38}{161}, \frac{152}{483})$ $+ \frac{19}{483}\sqrt{806}e^2 \otimes e_4$	{1345789, 1456789, 3467, 47, 1345789, 1456789, 3467, 47}
9531:532	$0, 0, 0, 0, \frac{38}{483}\sqrt{66}e^{12}, \frac{19}{483}\sqrt{38}e^{13}, \frac{95}{483}\sqrt{3}e^{15}, \frac{19}{483}\sqrt{347}e^{25},$ $\frac{19}{483}\sqrt{143}e^{17} + \frac{19}{161}\sqrt{31}e^{28} + \frac{38}{483}\sqrt{2}e^{36}$	$(\frac{38}{483}, \frac{38}{483}, \frac{19}{161}, -\frac{323}{483}, \frac{76}{483}, \frac{95}{483}, \frac{38}{161}, \frac{38}{161}, \frac{152}{483})$ $+ \frac{19}{483}\sqrt{806}e^2 \otimes e_4$	{1345789, 1456789, 3467, 47, 1345789, 1456789, 3467, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:541	$0, 0, 0, 0, \frac{29}{684}\sqrt{158}e^{12}, \frac{29}{342}\sqrt{22}e^{34}, -\frac{29}{684}\sqrt{66}e^{15}, \frac{29}{684}\sqrt{66}e^{25},$ $\frac{29}{684}\sqrt{105}e^{17} + \frac{29}{684}\sqrt{105}e^{28} + \frac{29}{684}\sqrt{526}e^{36}$	$(\frac{145}{1368}, \frac{145}{1368}, \frac{377}{684}, -\frac{116}{171}, \frac{145}{684}, -\frac{29}{228}, \frac{145}{456}, \frac{145}{456}, \frac{145}{342})$ $+ \frac{29}{171}\sqrt{69}e^3 \otimes e_4$	{1246789, 13568, 469, 1246789, 13568, 469}
9531:541	$0, 0, 0, 0, \frac{29}{684}\sqrt{158}e^{12}, \frac{29}{342}\sqrt{22}e^{34}, \frac{29}{684}\sqrt{66}e^{15}, \frac{29}{684}\sqrt{66}e^{25},$ $\frac{29}{684}\sqrt{105}e^{17} + \frac{29}{684}\sqrt{105}e^{28} + \frac{29}{684}\sqrt{526}e^{36}$	$(\frac{145}{1368}, \frac{145}{1368}, \frac{377}{684}, -\frac{116}{171}, \frac{145}{684}, -\frac{29}{228}, \frac{145}{456}, \frac{145}{456}, \frac{145}{342})$ $+ \frac{29}{171}\sqrt{69}e^3 \otimes e_4$	{1246789, 13568, 469, 1246789, 13568, 469}
9531:649	$0, 0, 0, 0, \frac{2}{63}\sqrt{146}e^{12}, \frac{1}{189}\sqrt{12118}e^{13}, \frac{1}{189}\sqrt{3358}e^{25}, \frac{2}{189}\sqrt{4161}e^{16},$ $\frac{1}{189}\sqrt{13578}e^{18} + \frac{2}{189}\sqrt{730}e^{27}$	$(\frac{26}{189}, \frac{5}{63}, -\frac{1}{27}, -\frac{40}{63}, \frac{41}{189}, \frac{19}{189}, \frac{8}{27}, \frac{5}{21}, \frac{71}{189})$ $+ \frac{1}{189}\sqrt{45114}e^1 \otimes e_4$	{12679, 13578, 245, 34689}
9531:649	$0, 0, 0, 0, \frac{54}{3761}\sqrt{1055}e^{12}, \frac{54}{3761}\sqrt{323}e^{13}, \frac{270}{3761}\sqrt{29}e^{25},$ $\frac{54}{3761}\sqrt{319}e^{16}, \frac{108}{3761}\sqrt{85}e^{18} + \frac{108}{3761}\sqrt{65}e^{27}$	$(\frac{621}{3761}, \frac{135}{3761}, -\frac{837}{3761}, -\frac{1323}{3761}, \frac{756}{3761}, -\frac{216}{3761}, \frac{891}{3761}, \frac{405}{3761}, \frac{1026}{3761})$ $+ \frac{54}{3761}\sqrt{1586}e^1 \otimes e_3 + \frac{54}{3761}\sqrt{1749}e^2 \otimes e_4$	{1278, 34}
9531:649	$0, 0, 0, 0, \frac{63}{9421}\sqrt{782}e^{12}, \frac{1827}{9421}\sqrt{2}e^{13}, \frac{126}{9421}\sqrt{170}e^{25},$ $\frac{126}{9421}\sqrt{877}e^{16}, \frac{252}{9421}\sqrt{394}e^{18} + \frac{63}{9421}\sqrt{830}e^{27}$	$(\frac{1197}{9421}, -\frac{126}{9421}, -\frac{2772}{9421}, \frac{4788}{9421}, \frac{1071}{9421}, -\frac{1575}{9421}, \frac{945}{9421}, -\frac{378}{9421}, \frac{819}{9421})$ $+ \frac{252}{9421}\sqrt{471}e^4 \otimes e_9 + \frac{63}{9421}\sqrt{9266}e^1 \otimes e_3$	{12478, 34}
9531:649	$0, 0, 0, 0, \frac{18}{77}e^{12}, \frac{6}{77}\sqrt{23}e^{13}, \frac{6}{77}\sqrt{3}e^{25}, \frac{6}{77}\sqrt{17}e^{16},$ $\frac{6}{77}\sqrt{17}e^{18} + \frac{12}{77}\sqrt{3}e^{27}$	$(-\frac{6}{77}, \frac{3}{77}, \frac{3}{11}, -\frac{24}{77}, -\frac{3}{77}, \frac{15}{77}, \frac{0}{77}, \frac{9}{77}, \frac{3}{77})$ $+ \frac{6}{77}\sqrt{33}e^1 \otimes e_4 + \frac{6}{77}\sqrt{35}e^3 \otimes e_9$	{12569, 138}
9531:649	$0, 0, 0, 0, \frac{2}{3645}\sqrt{1275783}e^{12}, \frac{4}{729}\sqrt{1907}e^{13}, \frac{8}{3645}\sqrt{26698}e^{25},$ $\frac{2}{3645}\sqrt{852429}e^{16}, \frac{2}{3645}\sqrt{1985187}e^{18} + \frac{2}{3645}\sqrt{2080537}e^{27}$	$(-\frac{247}{3645}, \frac{26}{3645}, \frac{572}{3645}, 1, -\frac{221}{3645}, \frac{65}{729}, -\frac{13}{243}, \frac{26}{1215}, -\frac{169}{3645})$ $+ \frac{2}{3645}\sqrt{5669511}e^4 \otimes e_9$	{12569, 1348, 247, 356789}
9531:649	$0, 0, 0, 0, \frac{6}{1243}\sqrt{18923}e^{12}, \frac{8}{1243}\sqrt{12963}e^{13}, \frac{12}{1243}\sqrt{894}e^{25},$ $\frac{2}{1243}\sqrt{88953}e^{16}, \frac{4}{1243}\sqrt{25926}e^{18} + \frac{8}{1243}\sqrt{12963}e^{27}$	$(-\frac{298}{1243}, \frac{61}{1243}, \frac{779}{1243}, \frac{216}{1243}, -\frac{237}{1243}, \frac{481}{1243}, -\frac{16}{113}, \frac{183}{1243}, -\frac{115}{1243})$ $+ \frac{2}{1243}\sqrt{459069}e^3 \otimes e_9$	{124569, 12569, 1348, 138}
9531:649	$0, 0, 0, 0, \frac{2}{3633}\sqrt{1503435}e^{12}, \frac{2}{3633}\sqrt{4119}e^{13}, \frac{2}{3633}\sqrt{1662703}e^{25},$ $\frac{2}{3633}\sqrt{226545}e^{16}, \frac{4}{1211}\sqrt{19222}e^{18} + \frac{26}{3633}\sqrt{8238}e^{27}$	$(\frac{57}{1211}, \frac{313}{3633}, \frac{199}{1211}, \frac{811}{1211}, \frac{484}{3633}, \frac{256}{1211}, \frac{797}{3633}, \frac{313}{1211}, \frac{370}{1211})$ $+ \frac{2}{1211}\sqrt{462701}e^2 \otimes e_4$	{1237, 1456789, 23569, 48}
9531:649	$0, 0, 0, 0, \frac{153}{7309}\sqrt{14}e^{12}, \frac{51}{7309}\sqrt{2714}e^{13}, \frac{1530}{7309}\sqrt{3}e^{25},$ $\frac{102}{7309}\sqrt{161}e^{16}, \frac{102}{7309}\sqrt{77}e^{18} + \frac{102}{7309}\sqrt{1203}e^{27}$	$(-\frac{867}{7309}, \frac{357}{7309}, \frac{2805}{7309}, -\frac{2244}{7309}, -\frac{510}{7309}, \frac{1938}{7309}, -\frac{153}{7309}, \frac{1071}{7309}, \frac{204}{7309})$ $+ \frac{51}{7309}\sqrt{6294}e^2 \otimes e_4 + \frac{51}{7309}\sqrt{6518}e^3 \otimes e_9$	{12569, 1348}
9531:649	$0, 0, 0, 0, \frac{4}{1203}\sqrt{244311}e^{12}, \frac{4}{3609}\sqrt{790159}e^{13}, \frac{2}{3609}\sqrt{506230}e^{25},$ $\frac{2}{1203}\sqrt{92442}e^{16}, \frac{2}{3609}\sqrt{561255}e^{18} + \frac{2}{3609}\sqrt{1019063}e^{27}$	$(-\frac{425}{3609}, \frac{49}{401}, \frac{2173}{3609}, -\frac{743}{1203}, \frac{16}{3609}, \frac{1748}{3609}, \frac{457}{3609}, \frac{147}{401}, \frac{898}{3609})$ $+ \frac{2}{3609}\sqrt{6424719}e^3 \otimes e_4$	{123589, 146, 23678, 4579}
9531:649	$0, 0, 0, 0, \frac{1}{593}\sqrt{131262}e^{12}, \frac{9}{593}\sqrt{1002}e^{13}, \frac{8}{593}\sqrt{501}e^{25}, \frac{2}{593}\sqrt{38577}e^{16},$ $\frac{4}{593}\sqrt{13026}e^{18} + \frac{9}{593}\sqrt{1002}e^{27}$	$(\frac{181}{593}, \frac{14}{593}, -\frac{320}{593}, \frac{96}{593}, \frac{195}{593}, -\frac{139}{593}, \frac{209}{593}, \frac{42}{593}, \frac{223}{593})$ $+ \frac{1}{593}\sqrt{497994}e^1 \otimes e_3$	{14578, 1578, 2345, 235}
9531:650	$0, 0, 0, 0, \frac{6}{155}\sqrt{217}e^{12}, \frac{6}{155}\sqrt{217}e^{13}, \frac{6}{155}\sqrt{70}e^{25}, \frac{6}{155}\sqrt{70}e^{36},$ $\frac{6}{155}\sqrt{217}e^{27} + \frac{6}{155}\sqrt{217}e^{38}$	$(\frac{3}{5}, -\frac{42}{155}, -\frac{42}{155}, \frac{6}{31}, \frac{51}{155}, \frac{51}{155}, \frac{9}{155}, \frac{9}{155}, -\frac{33}{155})$ $+ \frac{6}{31}\sqrt{35}e^1 \otimes e_9$	{123478, 12378, 234569, 23569}
9531:650	$0, 0, 0, 0, \frac{1}{19}\sqrt{145}e^{12}, \frac{1}{19}\sqrt{10}e^{13}, \frac{1}{19}\sqrt{190}e^{25}, \frac{1}{19}\sqrt{35}e^{36},$ $\frac{1}{19}\sqrt{145}e^{27} + \frac{1}{19}\sqrt{10}e^{38}$	$(-\frac{1}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{12}{19}, \frac{2}{19}, \frac{2}{19}, \frac{5}{19}, \frac{5}{19}, \frac{8}{19})$ $+ \frac{1}{19}\sqrt{465}e^2 \otimes e_4$	{12367, 14579, 23589, 468}
9531:650	$0, 0, 0, 0, \frac{3}{37}\sqrt{17}e^{12}, \frac{3}{37}\sqrt{6}e^{13}, \frac{3}{37}\sqrt{14}e^{25}, \frac{3}{37}\sqrt{3}e^{36},$ $\frac{3}{37}\sqrt{17}e^{27} + \frac{3}{37}\sqrt{6}e^{38}$	$(\frac{9}{37}, -\frac{3}{37}, -\frac{3}{37}, -\frac{12}{37}, \frac{6}{37}, \frac{6}{37}, \frac{3}{37}, \frac{3}{37}, 0)$ $+ \frac{12}{37}\sqrt{2}e^1 \otimes e_9 + \frac{3}{37}\sqrt{33}e^2 \otimes e_4$	{12378, 23569}
9531:650	$0, 0, 0, 0, \frac{2}{63}\sqrt{35}e^{12}, \frac{2}{63}\sqrt{35}e^{13}, \frac{4}{63}\sqrt{35}e^{25}, \frac{4}{63}\sqrt{35}e^{36},$ $\frac{8}{63}\sqrt{35}e^{27} + \frac{8}{63}\sqrt{35}e^{38}$	$(\frac{2}{9}, -\frac{1}{9}, -\frac{1}{9}, 1, \frac{1}{9}, \frac{1}{9}, 0, 0, -\frac{1}{9})$ $+ \frac{2}{63}\sqrt{1785}e^4 \otimes e_9$	{123569, 14, 23478, 56789}
9531:650	$0, 0, 0, 0, \frac{8}{63}\sqrt{35}e^{12}, \frac{8}{63}\sqrt{35}e^{13}, \frac{4}{63}\sqrt{35}e^{25}, \frac{4}{63}\sqrt{35}e^{36},$ $\frac{2}{63}\sqrt{35}e^{27} + \frac{2}{63}\sqrt{35}e^{38}$	$(\frac{31}{63}, -\frac{1}{9}, -\frac{1}{9}, -\frac{13}{21}, \frac{8}{21}, \frac{8}{21}, \frac{17}{63}, \frac{17}{63}, \frac{10}{63})$ $+ \frac{2}{63}\sqrt{1785}e^1 \otimes e_4$	{123789, 15678, 23456, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9531:651	$0, 0, 0, 0, \frac{92}{3573}\sqrt{618}e^{12}, \frac{184}{3573}\sqrt{403}e^{13}, \frac{92}{3573}\sqrt{217}e^{25}, \frac{92}{1191}\sqrt{47}e^{16}, \frac{184}{3573}\sqrt{42}e^{18} + \frac{92}{3573}\sqrt{638}e^{27} + \frac{92}{1191}\sqrt{53}e^{34}$	$(-\frac{598}{3573}, \frac{46}{397}, \frac{2438}{3573}, -\frac{598}{1191}, -\frac{184}{3573}, \frac{1840}{3573}, \frac{230}{3573}, \frac{138}{397}, \frac{644}{3573})$ $+ \frac{92}{3573}\sqrt{2922}e^3 \otimes e_4$	{146, 23678}
9531:652	$0, 0, 0, 0, \frac{32}{477}\sqrt{134}e^{12}, \frac{32}{477}\sqrt{134}e^{13}, \frac{32}{477}\sqrt{29}e^{25}, \frac{32}{477}\sqrt{29}e^{36}, \frac{32}{159}\sqrt{7}e^{14} + \frac{64}{477}e^{27} + \frac{64}{477}e^{38}$	$(\frac{272}{477}, -\frac{80}{477}, -\frac{80}{477}, -\frac{80}{159}, \frac{64}{159}, \frac{64}{159}, \frac{112}{477}, \frac{112}{477}, \frac{32}{477})$ $+ \frac{32}{477}\sqrt{390}e^1 \otimes e_4$	{12378, 4}
9531:655	$0, 0, 0, 0, \frac{146}{6445}\sqrt{1273}e^{12}, \frac{146}{6445}\sqrt{179}e^{13}, \frac{73}{6445}\sqrt{1590}e^{15}, \frac{146}{6445}\sqrt{166}e^{36}, \frac{146}{6445}\sqrt{3102}e^{17} + \frac{73}{6445}\sqrt{6046}e^{25} + \frac{146}{6445}\sqrt{139}e^{38}$	$(\frac{438}{6445}, \frac{876}{6445}, \frac{584}{6445}, \frac{4453}{6445}, \frac{1314}{6445}, \frac{1022}{6445}, \frac{1752}{6445}, \frac{1606}{6445}, \frac{438}{1289})$ $+ \frac{73}{6445}\sqrt{10898}e^2 \otimes e_4$	{1345789, 3467}
9531:655	$0, 0, 0, 0, \frac{1}{41}\sqrt{82}e^{12}, \frac{1}{41}\sqrt{410}e^{13}, \frac{2}{41}\sqrt{41}e^{15}, \frac{1}{41}\sqrt{205}e^{36}, \frac{1}{41}\sqrt{779}e^{17} + \frac{1}{41}\sqrt{533}e^{25} + \frac{2}{41}\sqrt{205}e^{38}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{41}\sqrt{2747}e^4 \otimes e_9$	{13569, 348}
9531:655	$0, 0, 0, 0, \frac{71}{6693}\sqrt{4462}e^{36}, \frac{1846}{6693}\sqrt{3}e^{17} + \frac{71}{6693}\sqrt{510}e^{25} + \frac{71}{6693}\sqrt{3558}e^{38}$	$(\frac{142}{2231}, \frac{284}{2231}, \frac{568}{6693}, -\frac{1491}{2231}, \frac{426}{2231}, \frac{994}{2231}, \frac{568}{2231}, \frac{1562}{6693}, \frac{710}{2231})$ $+ \frac{71}{6693}\sqrt{11166}e^3 \otimes e_4$	{1456789, 47}
9531:655	$0, 0, 0, 0, \frac{7}{341}\sqrt{755}e^{12}, \frac{70}{341}e^{13}, \frac{70}{341}\sqrt{13}e^{15}, \frac{7}{341}\sqrt{195}e^{36}, \frac{7}{341}\sqrt{1045}e^{17} + \frac{70}{341}\sqrt{590}e^{25} + \frac{7}{341}\sqrt{10}e^{38}$	$(\frac{21}{341}, \frac{42}{341}, \frac{28}{341}, \frac{224}{341}, \frac{63}{341}, \frac{49}{341}, \frac{84}{341}, \frac{7}{31}, \frac{105}{341})$ $+ \frac{35}{341}\sqrt{113}e^1 \otimes e_4$	{12378, 2345679}
9531:656	$0, 0, 0, 0, \frac{22}{101}\sqrt{6}e^{12}, \frac{4}{101}\sqrt{57}e^{13}, \frac{4}{101}\sqrt{366}e^{25}, \frac{2}{101}\sqrt{210}e^{36}, \frac{12}{101}\sqrt{21}e^{15} + \frac{2}{101}\sqrt{1230}e^{27} + \frac{4}{101}\sqrt{6}e^{38}$	$(\frac{12}{101}, \frac{6}{101}, \frac{6}{101}, -\frac{66}{101}, \frac{18}{101}, \frac{18}{101}, \frac{24}{101}, \frac{24}{101}, \frac{30}{101})$ $+ \frac{6}{101}\sqrt{334}e^2 \otimes e_4$	{12678, 1345789}
9531:656	$0, 0, 0, 0, \frac{20}{153}\sqrt{35}e^{12}, \frac{10}{153}\sqrt{35}e^{13}, \frac{5}{153}\sqrt{130}e^{25}, \frac{20}{153}\sqrt{5}e^{36}, \frac{5}{51}\sqrt{70}e^{15} + \frac{5}{153}\sqrt{290}e^{27} + \frac{20}{153}\sqrt{5}e^{38}$	$(\frac{20}{153}, \frac{10}{153}, \frac{10}{153}, -\frac{35}{51}, \frac{10}{51}, \frac{10}{51}, \frac{40}{51}, \frac{40}{51}, \frac{50}{153})$ $+ \frac{5}{153}\sqrt{1290}e^1 \otimes e_4$	{24579, 3467}
9531:656	$0, 0, 0, 0, \frac{4}{101}\sqrt{69}e^{12}, \frac{2}{101}\sqrt{1230}e^{13}, \frac{2}{101}\sqrt{462}e^{25}, \frac{4}{101}\sqrt{303}e^{36}, \frac{12}{101}\sqrt{21}e^{15} + \frac{4}{101}\sqrt{57}e^{27} + \frac{2}{101}\sqrt{978}e^{38}$	$(\frac{12}{101}, \frac{6}{101}, \frac{6}{101}, -\frac{66}{101}, \frac{18}{101}, \frac{18}{101}, \frac{24}{101}, \frac{24}{101}, \frac{30}{101})$ $+ \frac{6}{101}\sqrt{334}e^3 \otimes e_4$	{1245689, 138}
9531:656	$0, 0, 0, 0, \frac{1}{21}\sqrt{42}e^{12}, \frac{1}{21}\sqrt{105}e^{13}, \frac{1}{21}\sqrt{21}e^{25}, \frac{1}{42}\sqrt{210}e^{36}, \frac{1}{2}\sqrt{2}e^{15} + \frac{1}{42}\sqrt{546}e^{27} + \frac{1}{21}\sqrt{210}e^{38}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{14}\sqrt{322}e^4 \otimes e_9$	{12369, 145}
9531:749	$0, 0, 0, 0, \frac{207}{14029}\sqrt{254}e^{12}, \frac{69}{14029}\sqrt{5174}e^{34}, \frac{3519}{14029}\sqrt{2}e^{15}, \frac{69}{14029}\sqrt{1070}e^{36}, \frac{138}{14029}\sqrt{2517}e^{17} + \frac{138}{14029}\sqrt{35}e^{38}$	$(\frac{1311}{14029}, -\frac{3450}{14029}, -\frac{1587}{14029}, \frac{5244}{14029}, -\frac{2139}{14029}, \frac{3657}{14029}, -\frac{828}{14029}, \frac{2070}{14029}, \frac{483}{14029})$ $+ \frac{138}{14029}\sqrt{3099}e^1 \otimes e_2 + \frac{138}{14029}\sqrt{3113}e^4 \otimes e_9$	{13478, 2348}
9531:749	$0, 0, 0, 0, \frac{9}{151}e^{12}, \frac{9}{151}e^{34}, \frac{9}{151}\sqrt{57}e^{15}, \frac{9}{151}\sqrt{57}e^{36}, \frac{9}{151}\sqrt{43}e^{17} + \frac{9}{151}\sqrt{43}e^{38}$	$(\frac{36}{151}, -\frac{45}{151}, \frac{36}{151}, -\frac{45}{151}, -\frac{9}{151}, -\frac{9}{151}, \frac{27}{151}, \frac{27}{151}, \frac{63}{151})$ $+ \frac{9}{151}\sqrt{131}e^1 \otimes e_2 + \frac{9}{151}\sqrt{131}e^3 \otimes e_4$	{1378, 147, 24}
9531:749	$0, 0, 0, 0, \frac{9}{151}e^{12}, \frac{9}{151}e^{34}, \frac{9}{151}\sqrt{57}e^{15}, \frac{9}{151}\sqrt{57}e^{36}, \frac{9}{151}\sqrt{43}e^{17} + \frac{9}{151}\sqrt{43}e^{38}$	$(\frac{36}{151}, -\frac{45}{151}, \frac{36}{151}, -\frac{45}{151}, -\frac{9}{151}, -\frac{9}{151}, \frac{27}{151}, \frac{27}{151}, \frac{63}{151})$ $+ \frac{9}{151}\sqrt{131}e^1 \otimes e_2 - \frac{9}{151}\sqrt{131}e^3 \otimes e_4$	{1378, 147, 24}
9531:749	$0, 0, 0, 0, \frac{14}{821}\sqrt{1770}e^{12}, \frac{210}{821}e^{34}, \frac{14}{821}\sqrt{390}e^{15}, \frac{14}{821}\sqrt{390}e^{36}, \frac{7}{821}\sqrt{3390}e^{17} + \frac{321}{821}\sqrt{205}e^{38}$	$(-\frac{245}{821}, \frac{585}{821}, -\frac{112}{821}, \frac{186}{821}, \frac{340}{821}, \frac{74}{821}, \frac{95}{821}, -\frac{38}{821}, -\frac{150}{821})$ $+ \frac{35}{821}\sqrt{798}e^2 \otimes e_9$	{12378, 1247, 134569, 15689}
9531:749	$0, 0, 0, 0, \frac{4}{799}\sqrt{46095}e^{12}, \frac{5}{799}\sqrt{4390}e^{34}, \frac{1}{2397}\sqrt{3507610}e^{15}, \frac{4}{799}\sqrt{4390}e^{36}, \frac{4}{799}\sqrt{28535}e^{17} + \frac{3}{799}\sqrt{13170}e^{38}$	$(\frac{830}{2397}, -\frac{455}{799}, \frac{6}{799}, \frac{69}{799}, -\frac{535}{2397}, \frac{171}{799}, \frac{295}{2397}, \frac{273}{799}, \frac{375}{799})$ $+ \frac{5}{2397}\sqrt{345054}e^1 \otimes e_2$	{1367, 14678, 236, 2468}
9531:751	$0, 0, 0, 0, \frac{19}{2001}\sqrt{190}e^{12}, \frac{19}{2001}\sqrt{1590}e^{34}, \frac{19}{667}\sqrt{190}e^{15}, \frac{19}{2001}\sqrt{6670}e^{36}, \frac{114}{667}\sqrt{5}e^{17} + \frac{114}{667}\sqrt{5}e^{25} + \frac{38}{667}\sqrt{230}e^{38}$	$(\frac{57}{667}, \frac{114}{667}, \frac{665}{2001}, -\frac{380}{667}, \frac{171}{667}, -\frac{475}{2001}, \frac{228}{667}, \frac{190}{2001}, \frac{285}{667})$ $+ \frac{190}{2001}\sqrt{165}e^3 \otimes e_4$	{1358, 145}
9531:751	$0, 0, 0, 0, \frac{27}{521}\sqrt{10}e^{12}, \frac{9}{521}\sqrt{1610}e^{34}, \frac{27}{521}\sqrt{10}e^{15}, \frac{72}{521}\sqrt{5}e^{36}, \frac{9}{521}\sqrt{1230}e^{17} + \frac{9}{521}\sqrt{1230}e^{25} + \frac{18}{521}\sqrt{95}e^{38}$	$(-\frac{9}{521}, -\frac{18}{521}, -\frac{135}{521}, \frac{360}{521}, -\frac{27}{521}, \frac{225}{521}, -\frac{36}{521}, \frac{90}{521}, -\frac{45}{521})$ $+ \frac{45}{521}\sqrt{170}e^4 \otimes e_9$	{1234578, 23679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:1	$0, 0, 0, 0, \frac{24}{265} \sqrt{10}e^{12}, \frac{8}{265} \sqrt{435}e^{13}, \frac{12}{265} \sqrt{55}e^{34}, \frac{12}{265} \sqrt{55}e^{15},$ $\frac{4}{265} \sqrt{615}e^{18}$	$(-\frac{49}{265}, \frac{123}{265}, \frac{52}{265}, -\frac{68}{265}, \frac{74}{265}, \frac{3}{265}, -\frac{16}{265}, \frac{5}{53}, -\frac{24}{265})$ $+\frac{4}{265} \sqrt{1770}e^3 \otimes e_4 + \frac{3}{53} \sqrt{78}e^2 \otimes e_6$	{123, 145689, 2459, 368}
9521:1	$0, 0, 0, 0, \frac{1}{352} \sqrt{7917}e^{12}, \frac{9}{176} \sqrt{13}e^{13}, \frac{1}{352} \sqrt{7410}e^{34}, \frac{1}{352} \sqrt{7410}e^{15},$ $\frac{1}{352} \sqrt{7917}e^{18}$	$(-\frac{13}{352}, \frac{123}{704}, \frac{1}{352}, -\frac{53}{352}, \frac{97}{704}, -\frac{3}{88}, -\frac{13}{88}, \frac{71}{704}, \frac{45}{704})$ $+\frac{1}{32} \sqrt{78}e^2 \otimes e_9 + \frac{9}{352} \sqrt{182}e^1 \otimes e_7$	{123468, 128, 134569, 159}
9521:1	$0, 0, 0, 0, \frac{8}{673} \sqrt{102}e^{12}, \frac{16}{673} \sqrt{799}e^{13}, \frac{8}{673} \sqrt{4879}e^{34}, \frac{8}{673} \sqrt{1717}e^{15},$ $\frac{8}{673} \sqrt{4845}e^{18}$	$(-\frac{89}{673}, \frac{109}{673}, \frac{16}{673}, \frac{386}{673}, \frac{20}{673}, \frac{73}{673}, \frac{402}{673}, -\frac{69}{673}, -\frac{158}{673})$ $+\frac{24}{673} \sqrt{1054}e^4 \otimes e_9$	{123468, 12478, 135679, 159, 235789, 25689, 34, 467}
9521:1	$0, 0, 0, 0, \frac{4}{497} \sqrt{714}e^{12}, \frac{12}{497} \sqrt{70}e^{13}, \frac{12}{497} \sqrt{5}e^{34}, \frac{12}{497} \sqrt{231}e^{15},$ $\frac{4}{497} \sqrt{3927}e^{18}$	$(\frac{45}{497}, -\frac{123}{497}, -\frac{20}{497}, \frac{180}{497}, -\frac{78}{497}, \frac{25}{497}, \frac{160}{497}, -\frac{33}{497}, \frac{12}{497})$ $+\frac{4}{497} \sqrt{4830}e^4 \otimes e_9 + \frac{8}{497} \sqrt{1113}e^1 \otimes e_2$	{13468, 1478, 234, 2467}
9521:1	$0, 0, 0, 0, \frac{3}{55} \sqrt{26}e^{12}, \frac{1}{55} \sqrt{65}e^{13}, \frac{1}{55} \sqrt{455}e^{34}, \frac{2}{55} \sqrt{78}e^{15},$ $\frac{3}{55} \sqrt{26}e^{18}$	$(\frac{6}{55}, -\frac{2}{55}, -\frac{13}{55}, \frac{6}{55}, \frac{4}{55}, -\frac{7}{55}, -\frac{7}{55}, \frac{2}{11}, \frac{16}{55})$ $-\frac{1}{55} \sqrt{429}e^4 \otimes e_6 + \frac{3}{55} \sqrt{91}e^1 \otimes e_7$	{12348, 1268, 13459, 1569, 2356789, 245789, 367, 47}
9521:1	$0, 0, 0, 0, \frac{1}{2143} \sqrt{313170}e^{12}, \frac{1}{2143} \sqrt{782210}e^{13}, \frac{2}{2143} \sqrt{190190}e^{34},$ $\frac{39}{2143} \sqrt{110}e^{15}, \frac{6}{2143} \sqrt{12155}e^{18}$	$(-\frac{321}{2143}, \frac{415}{2143}, \frac{167}{2143}, \frac{561}{2143}, \frac{94}{2143}, -\frac{154}{2143}, \frac{728}{2143}, -\frac{227}{2143}, -\frac{548}{2143})$ $+\frac{10}{2143} \sqrt{15015}e^3 \otimes e_9 + \frac{13}{2143} \sqrt{7590}e^4 \otimes e_6$	{123458, 169, 24789, 3567}
9521:1	$0, 0, 0, 0, \frac{1}{4} \sqrt{3}e^{12}, \frac{3}{4} \sqrt{2}e^{13}, \frac{1}{2}e^{34}, \frac{1}{2}e^{15}, \frac{1}{4} \sqrt{3}e^{18}$	$(-\frac{1}{20}, \frac{9}{40}, \frac{13}{20}, -\frac{3}{5}, \frac{7}{40}, \frac{3}{5}, \frac{1}{20}, \frac{1}{8}, \frac{3}{40})$ $+\frac{1}{4} \sqrt{34}e^3 \otimes e_4$	{123589, 1245689, 13, 146, 2368, 248, 3569, 459}
9521:1	$0, 0, 0, 0, \frac{3}{55} \sqrt{26}e^{12}, \frac{1}{55} \sqrt{65}e^{13}, \frac{1}{55} \sqrt{455}e^{34}, \frac{2}{55} \sqrt{78}e^{15},$ $\frac{3}{55} \sqrt{26}e^{18}$	$(\frac{6}{55}, -\frac{2}{55}, -\frac{13}{55}, \frac{6}{55}, \frac{4}{55}, -\frac{7}{55}, -\frac{7}{55}, \frac{2}{11}, \frac{16}{55})$ $+\frac{1}{55} \sqrt{429}e^4 \otimes e_6 + \frac{3}{55} \sqrt{91}e^1 \otimes e_7$	{12348, 1268, 13459, 1569, 2356789, 245789, 367, 47}
9521:1	$0, 0, 0, 0, \frac{3}{323} \sqrt{730}e^{12}, \frac{2}{323} \sqrt{16790}e^{13}, \frac{1}{323} \sqrt{56210}e^{34}, \frac{2}{323} \sqrt{2190}e^{15},$ $\frac{3}{323} \sqrt{730}e^{18}$	$(-\frac{6}{323}, \frac{65}{323}, -\frac{113}{323}, \frac{246}{323}, \frac{59}{323}, -\frac{7}{19}, \frac{7}{17}, \frac{53}{323}, \frac{47}{323})$ $+\frac{1}{323} \sqrt{194910}e^4 \otimes e_6$	{1234589, 125689, 134, 16, 23678, 2478, 35679, 4579}
9521:1	$0, 0, 0, 0, \frac{1}{209} \sqrt{6162}e^{12}, \frac{3}{209} \sqrt{158}e^{13}, \frac{2}{209} \sqrt{2054}e^{34}, \frac{2}{209} \sqrt{2054}e^{15},$ $\frac{1}{209} \sqrt{6162}e^{18}$	$(\frac{26}{209}, -\frac{9}{209}, \frac{13}{209}, -\frac{6}{19}, \frac{17}{209}, \frac{39}{209}, -\frac{53}{209}, \frac{43}{209}, \frac{69}{209})$ $+\frac{2}{209} \sqrt{1738}e^3 \otimes e_4 + \frac{3}{209} \sqrt{2370}e^1 \otimes e_7$	{2356789, 245789, 367, 47}
9521:1	$0, 0, 0, 0, \frac{3}{1777} \sqrt{31578}e^{12}, \frac{4}{1777} \sqrt{45705}e^{13}, \frac{1}{1777} \sqrt{257610}e^{34},$ $\frac{4}{1777} \sqrt{21606}e^{15}, \frac{1}{1777} \sqrt{440430}e^{18}$	$(\frac{322}{1777}, -\frac{509}{1777}, -\frac{403}{1777}, \frac{750}{1777}, -\frac{187}{1777}, -\frac{81}{1777}, \frac{347}{1777}, \frac{135}{1777}, \frac{457}{1777})$ $+\frac{1}{1777} \sqrt{1185006}e^4 \otimes e_6 + \frac{4}{1777} \sqrt{90579}e^1 \otimes e_2$	{1348, 168, 2367, 247}
9521:1	$0, 0, 0, 0, \frac{1}{1991} \sqrt{76254}e^{12}, \frac{10}{1991} \sqrt{179}e^{13}, \frac{1}{1991} \sqrt{231626}e^{34},$ $\frac{9}{1991} \sqrt{1790}e^{15}, \frac{24}{1991} \sqrt{358}e^{18}$	$(\frac{21}{1991}, \frac{17}{1991}, \frac{259}{1991}, -\frac{417}{1991}, \frac{38}{1991}, \frac{280}{1991}, -\frac{158}{1991}, \frac{59}{1991}, \frac{80}{1991})$ $+\frac{2}{181} \sqrt{537}e^3 \otimes e_9 + \frac{3}{1991} \sqrt{41170}e^1 \otimes e_7$	{12348, 1569, 245789, 367}
9521:1	$0, 0, 0, 0, \frac{1}{2057} \sqrt{43878}e^{12}, \frac{1}{2057} \sqrt{52114}e^{13}, \frac{4}{2057} \sqrt{7171}e^{34},$ $\frac{8}{2057} \sqrt{1207}e^{15}, \frac{1}{2057} \sqrt{100110}e^{18}$	$(\frac{74}{2057}, -\frac{79}{2057}, -\frac{211}{2057}, \frac{214}{2057}, -\frac{5}{2057}, -\frac{137}{2057}, \frac{3}{2057}, \frac{69}{2057}, \frac{13}{187})$ $+\frac{12}{2057} \sqrt{781}e^4 \otimes e_9 + \frac{3}{2057} \sqrt{16330}e^1 \otimes e_7$	{123468, 159, 235789, 467}
9521:1	$0, 0, 0, 0, \frac{2}{113} \sqrt{1995}e^{12}, \frac{18}{113} \sqrt{19}e^{13}, \frac{8}{113} \sqrt{57}e^{34}, \frac{8}{113} \sqrt{57}e^{15},$ $\frac{12}{113} \sqrt{1995}e^{18}$	$(-\frac{38}{113}, \frac{78}{113}, \frac{32}{113}, \frac{5}{113}, \frac{40}{113}, -\frac{6}{113}, \frac{37}{113}, \frac{2}{113}, -\frac{36}{113})$ $+\frac{4}{113} \sqrt{1311}e^2 \otimes e_9$	{123468, 123678, 12478, 128, 134569, 135679, 14579, 159}
9521:1	$0, 0, 0, 0, \frac{1}{224} \sqrt{9699}e^{12}, \frac{3}{224} \sqrt{530}e^{13}, \frac{1}{112} \sqrt{318}e^{34}, \frac{1}{112} \sqrt{318}e^{15},$ $\frac{1}{224} \sqrt{9699}e^{18}$	$(-\frac{53}{224}, \frac{213}{448}, \frac{95}{224}, -\frac{2}{7}, \frac{107}{448}, \frac{3}{16}, \frac{31}{224}, \frac{1}{448}, -\frac{15}{64})$ $+\frac{1}{112} \sqrt{8745}e^2 \otimes e_9 + \frac{3}{224} \sqrt{3074}e^3 \otimes e_4$	{12378, 124678, 13579, 145679}
9521:1	$0, 0, 0, 0, \frac{1}{517} \sqrt{38634}e^{12}, \frac{2}{517} \sqrt{2055}e^{13}, \frac{1}{517} \sqrt{30414}e^{34},$ $\frac{1}{517} \sqrt{30414}e^{15}, \frac{8}{517} \sqrt{274}e^{18}$	$(\frac{17}{517}, \frac{79}{517}, -\frac{75}{517}, -\frac{45}{517}, \frac{96}{517}, -\frac{58}{517}, -\frac{120}{517}, \frac{113}{517}, \frac{130}{517})$ $+\frac{2}{517} \sqrt{10549}e^2 \otimes e_6 + \frac{3}{517} \sqrt{9042}e^1 \otimes e_7$	{12348, 1569, 245789, 367}
9521:1	$0, 0, 0, 0, \frac{4}{1247} \sqrt{10362}e^{12}, \frac{2}{1247} \sqrt{57619}e^{13}, \frac{2}{1247} \sqrt{84466}e^{34},$ $\frac{2}{1247} \sqrt{26062}e^{15}, \frac{4}{1247} \sqrt{10362}e^{18}$	$(-\frac{196}{1247}, \frac{425}{1247}, -\frac{40}{1247}, \frac{151}{1247}, \frac{229}{1247}, -\frac{236}{1247}, \frac{111}{1247}, \frac{33}{1247}, -\frac{163}{1247})$ $+\frac{6}{1247} \sqrt{9734}e^2 \otimes e_7 + \frac{6}{1247} \sqrt{9734}e^4 \otimes e_9$	{123468, 135679, 25689, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:1	$0, 0, 0, 0, \frac{72}{2287} \sqrt{322e^{12}}, \frac{32}{2287} \sqrt{138e^{13}}, \frac{8}{2287} \sqrt{24886e^{34}}, \frac{8}{2287} \sqrt{5106e^{15}}, \frac{16}{2287} \sqrt{897e^{18}}$	$(-\frac{267}{2287}, \frac{1008}{2287}, \frac{504}{2287}, -\frac{968}{2287}, \frac{741}{2287}, \frac{237}{2287}, -\frac{464}{2287}, \frac{474}{2287}, \frac{207}{2287}) + \frac{16}{2287} \sqrt{14835e^2} \otimes e_7 + \frac{32}{2287} \sqrt{2047e^3} \otimes e_4$	{13567, 1457, 379, 4679}
9521:1	$0, 0, 0, 0, \frac{4}{3583} \sqrt{92418e^{12}}, \frac{8}{3583} \sqrt{61401e^{13}}, \frac{12}{3583} \sqrt{6541e^{34}}, \frac{4}{3583} \sqrt{69841e^{15}}, \frac{12}{3583} \sqrt{11183e^{18}}$	$(\frac{623}{3583}, -\frac{1065}{3583}, \frac{868}{3583}, -\frac{820}{3583}, -\frac{442}{3583}, \frac{1491}{3583}, \frac{48}{3583}, \frac{181}{3583}, \frac{804}{3583}) + \frac{4}{3583} \sqrt{300886e^3} \otimes e_4 + \frac{4}{3583} \sqrt{386130e^1} \otimes e_2$	{138, 1468, 236, 24}
9521:1	$0, 0, 0, 0, \frac{4}{2095} \sqrt{36186e^{12}}, \frac{4}{2095} \sqrt{12714e^{13}}, \frac{4}{2095} \sqrt{78729e^{34}}, \frac{12}{2095} \sqrt{2119e^{15}}, \frac{4}{2095} \sqrt{66667e^{18}}$	$(-\frac{397}{2095}, \frac{155}{2095}, -\frac{132}{2095}, \frac{888}{2095}, \frac{378}{2095}, -\frac{529}{2095}, \frac{756}{2095}, -\frac{19}{2095}, -\frac{416}{2095}) + \frac{12}{2095} \sqrt{19886e^4} \otimes e_9 + \frac{8}{2095} \sqrt{29503e^2} \otimes e_6$	{12478, 135679, 235789, 467}
9521:1	$0, 0, 0, 0, \frac{16}{1545} \sqrt{1246e^{12}}, \frac{8}{1545} \sqrt{1869e^{13}}, \frac{1}{1545} \sqrt{681562e^{34}}, \frac{1}{1545} \sqrt{115878e^{15}}, \frac{56}{1545} \sqrt{89e^{18}}$	$(-\frac{98}{1545}, \frac{128}{309}, \frac{127}{515}, -\frac{364}{1545}, \frac{346}{1545}, \frac{29}{515}, \frac{17}{1545}, \frac{52}{1545}, -\frac{242}{1545}) + \frac{1}{1545} \sqrt{808654e^3} \otimes e_9 + \frac{1}{1545} \sqrt{888398e^2} \otimes e_7$	{123468, 14579, 25689, 37}
9521:1	$0, 0, 0, 0, \frac{2}{209} \sqrt{6441e^{12}}, \frac{2}{209} \sqrt{7797e^{13}}, \frac{4}{209} \sqrt{339e^{34}}, \frac{4}{209} \sqrt{339e^{15}}, \frac{2}{209} \sqrt{3503e^{18}}$	$(-\frac{50}{209}, \frac{8}{11}, -\frac{24}{209}, \frac{45}{209}, \frac{102}{209}, -\frac{74}{209}, \frac{21}{209}, \frac{52}{209}, \frac{2}{209}) + \frac{8}{209} \sqrt{1243e^2} \otimes e_6$	{123, 12347, 145689, 156789, 2459, 2579, 34678, 368}
9521:1	$0, 0, 0, 0, \frac{8}{673} \sqrt{4845e^{12}}, \frac{16}{673} \sqrt{799e^{13}}, \frac{8}{673} \sqrt{4879e^{34}}, \frac{8}{673} \sqrt{1717e^{15}}, \frac{8}{673} \sqrt{102e^{18}}$	$(-\frac{89}{673}, \frac{388}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{299}{673}, -\frac{73}{673}, -\frac{156}{673}, \frac{210}{673}, \frac{121}{673}) + \frac{24}{673} \sqrt{1054e^2} \otimes e_7$	{123468, 128, 135679, 14579, 234589, 25689, 37, 467}
9521:1	$0, 0, 0, 0, \frac{14}{51} e^{12}, \frac{2}{51} \sqrt{70e^{13}}, \frac{2}{51} \sqrt{42e^{34}}, \frac{2}{51} \sqrt{42e^{15}}, \frac{8}{51} \sqrt{7e^{18}}$	$(\frac{1}{17}, -\frac{11}{51}, \frac{4}{17}, -\frac{1}{51}, -\frac{8}{51}, \frac{5}{17}, \frac{11}{51}, -\frac{5}{51}, -\frac{2}{51}) + \frac{2}{51} \sqrt{161e^1} \otimes e_2 + \frac{2}{51} \sqrt{161e^3} \otimes e_9$	{1348, 1378, 2346, 2367}
9521:1	$0, 0, 0, 0, \frac{3}{1699} \sqrt{65274e^{12}}, \frac{1}{1699} \sqrt{89562e^{13}}, \frac{2}{1699} \sqrt{222387e^{34}}, \frac{1}{1699} \sqrt{125994e^{15}}, \frac{46}{1699} \sqrt{33e^{18}}$	$(-\frac{175}{1699}, \frac{669}{1699}, -\frac{337}{1699}, \frac{247}{1699}, \frac{494}{1699}, -\frac{512}{1699}, -\frac{90}{1699}, \frac{319}{1699}, \frac{144}{1699}) + \frac{1}{1699} \sqrt{976074e^4} \otimes e_6 + \frac{2}{1699} \sqrt{328647e^2} \otimes e_7$	{13567, 1457, 23458, 2568}
9521:1	$0, 0, 0, 0, \frac{1}{11} \sqrt{30e^{12}}, \frac{1}{11} \sqrt{10e^{13}}, \frac{2}{11} \sqrt{10e^{34}}, \frac{2}{11} \sqrt{10e^{15}}, \frac{1}{11} \sqrt{30e^{18}}$	$(\frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{3}{11}, \frac{3}{11}, \frac{5}{11}) + \frac{3}{11} \sqrt{10e^1} \otimes e_7$	{123468, 128, 134569, 159, 235789, 2456789, 37, 467}
9521:1	$0, 0, 0, 0, \frac{3}{752} \sqrt{11501e^{12}}, \frac{9}{752} \sqrt{106e^{13}}, \frac{3}{376} \sqrt{3498e^{34}}, \frac{3}{752} \sqrt{3074e^{15}}, \frac{3}{752} \sqrt{11501e^{18}}$	$(-\frac{159}{752}, \frac{669}{1504}, -\frac{45}{752}, \frac{273}{752}, \frac{351}{1504}, -\frac{51}{188}, \frac{57}{188}, \frac{33}{1504}, -\frac{285}{1504}) + \frac{3}{752} \sqrt{32754e^4} \otimes e_6 + \frac{3}{752} \sqrt{36782e^2} \otimes e_9$	{12348, 1268, 13459, 1569}
9521:2	$0, 0, 0, 0, \frac{24}{2329} \sqrt{1187e^{12}}, \frac{3}{2329} \sqrt{154310e^{13}}, \frac{2}{2329} \sqrt{169741e^{34}}, \frac{6}{2329} \sqrt{5935e^{25}}, \frac{2}{2329} \sqrt{3561e^{28}}$	$(\frac{570}{2329}, -\frac{6}{137}, \frac{285}{2329}, -\frac{902}{2329}, \frac{468}{2329}, \frac{855}{2329}, -\frac{617}{2329}, \frac{366}{2329}, \frac{264}{2329}) + \frac{1}{2329} \sqrt{2784702e^1} \otimes e_7 + \frac{2}{2329} \sqrt{525841e^3} \otimes e_4$	{23567, 2457, 3679, 479}
9521:2	$0, 0, 0, 0, \frac{2}{2537} \sqrt{22969e^{12}}, \frac{1}{2537} \sqrt{79310e^{13}}, \frac{2}{2537} \sqrt{50161e^{34}}, \frac{10}{2537} \sqrt{1133e^{25}}, \frac{1}{2537} \sqrt{143582e^{28}}$	$(\frac{204}{2537}, -\frac{1}{59}, -\frac{324}{2537}, \frac{178}{2537}, \frac{161}{2537}, -\frac{120}{2537}, -\frac{146}{2537}, \frac{2}{43}, \frac{75}{2537}) + \frac{1}{2537} \sqrt{182722e^4} \otimes e_9 + \frac{1}{2537} \sqrt{285310e^2} \otimes e_7$	{123468, 1356789, 2569, 467}
9521:2	$0, 0, 0, 0, \frac{42}{137} e^{12}, \frac{7}{137} \sqrt{55e^{13}}, \frac{7}{137} \sqrt{73e^{34}}, \frac{7}{137} \sqrt{10e^{25}}, \frac{7}{137} \sqrt{2e^{28}}$	$(\frac{35}{137}, -\frac{7}{137}, -\frac{49}{137}, \frac{35}{137}, \frac{28}{137}, -\frac{14}{137}, -\frac{14}{137}, \frac{21}{137}, \frac{14}{137}) + \frac{7}{137} \sqrt{113e^4} \otimes e_6 + \frac{7}{137} \sqrt{131e^1} \otimes e_7$	{123489, 12689, 13458, 1568, 23567, 2457, 3679, 479}
9521:2	$0, 0, 0, 0, \frac{3}{1441} \sqrt{3830e^{12}}, \frac{90}{1441} \sqrt{10e^{13}}, \frac{3}{1441} \sqrt{2010e^{34}}, \frac{102}{1441} \sqrt{5e^{25}}, \frac{21}{1441} \sqrt{170e^{28}}$	$(\frac{81}{1441}, -\frac{30}{1441}, -\frac{201}{1441}, \frac{249}{1441}, \frac{51}{1441}, -\frac{120}{1441}, \frac{48}{1441}, \frac{21}{1441}, -\frac{9}{1441}) + \frac{3}{1441} \sqrt{14370e^2} \otimes e_6 + \frac{6}{1441} \sqrt{2870e^1} \otimes e_9$	{123478, 1238, 2459, 2579}
9521:2	$0, 0, 0, 0, \frac{9}{1991} \sqrt{4670e^{12}}, \frac{2}{1991} \sqrt{24751e^{13}}, \frac{1}{1991} \sqrt{652866e^{34}}, \frac{1}{1991} \sqrt{454858e^{25}}, \frac{8}{1991} \sqrt{5137e^{28}}$	$(-\frac{43}{1991}, \frac{217}{1991}, -\frac{337}{1991}, \frac{87}{1991}, \frac{174}{1991}, -\frac{380}{1991}, -\frac{250}{1991}, \frac{391}{1991}, \frac{608}{1991}) + \frac{1}{1991} \sqrt{1125470e^2} \otimes e_7 + \frac{2}{1991} \sqrt{123755e^4} \otimes e_6$	{1356789, 145789, 23459, 2569}
9521:2	$0, 0, 0, 0, \frac{18}{799} \sqrt{499e^{12}}, \frac{4}{799} \sqrt{38922e^{13}}, \frac{4}{799} \sqrt{6986e^{34}}, \frac{8}{799} \sqrt{1497e^{25}}, \frac{10}{799} \sqrt{1497e^{28}}$	$(-\frac{87}{799}, \frac{6}{47}, \frac{543}{799}, -\frac{455}{799}, \frac{15}{799}, \frac{456}{799}, \frac{88}{799}, \frac{117}{799}, \frac{219}{799}) + \frac{2}{799} \sqrt{326845e^3} \otimes e_4$	{12359, 124569, 13, 146, 2368, 248, 35689, 4589}
9521:2	$0, 0, 0, 0, \frac{9}{1697} \sqrt{8854e^{12}}, \frac{18}{1697} \sqrt{4845e^{13}}, \frac{18}{1697} \sqrt{627e^{34}}, \frac{36}{1697} \sqrt{247e^{25}}, \frac{36}{1697} \sqrt{1159e^{28}}$	$(\frac{954}{1697}, -\frac{513}{1697}, -\frac{132}{1697}, \frac{378}{1697}, \frac{441}{1697}, \frac{822}{1697}, \frac{246}{1697}, -\frac{72}{1697}, -\frac{585}{1697}) + \frac{9}{1697} \sqrt{52630e^1} \otimes e_9$	{123478, 1238, 12468, 12678, 2345679, 23569, 2459, 2579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:2	$0, 0, 0, 0, \frac{3}{2063} \sqrt{36890}e^{12}, \frac{30}{2063} \sqrt{21}e^{13}, \frac{9}{2063} \sqrt{3710}e^{34},$ $\frac{3}{2063} \sqrt{32690}e^{25}, \frac{96}{2063} \sqrt{35}e^{28}$	$(\frac{417}{2063}, -\frac{105}{2063}, -\frac{195}{2063}, -\frac{225}{2063}, \frac{312}{2063}, \frac{222}{2063}, -\frac{420}{2063}, \frac{207}{2063}, \frac{102}{2063})$ $+\frac{3}{2063} \sqrt{80430}e^2 \otimes e_7 + \frac{6}{2063} \sqrt{11585}e^1 \otimes e_9$	{123468, 128, 23459, 2569}
9521:2	$0, 0, 0, 0, \frac{2}{1385} \sqrt{34454}e^{12}, \frac{1}{1385} \sqrt{274666}e^{13}, \frac{3}{1385} \sqrt{22862}e^{34},$ $\frac{1}{1385} \sqrt{29946}e^{25}, \frac{2}{1385} \sqrt{57155}e^{28}$	$(-\frac{73}{1385}, -\frac{48}{1385}, \frac{21}{277}, \frac{354}{1385}, -\frac{121}{1385}, \frac{32}{1385}, \frac{459}{1385}, -\frac{169}{1385}, -\frac{217}{1385})$ $+\frac{1}{1385} \sqrt{458206}e^3 \otimes e_9 + \frac{2}{1385} \sqrt{85974}e^4 \otimes e_6$	{12569, 134, 23678, 45789}
9521:2	$0, 0, 0, 0, \frac{2}{1137} \sqrt{5474}e^{12}, \frac{1}{1137} \sqrt{174846}e^{13}, \frac{1}{1137} \sqrt{185794}e^{34},$ $\frac{1}{1137} \sqrt{28014}e^{25}, \frac{2}{1137} \sqrt{34615}e^{28}$	$(\frac{283}{1137}, -\frac{54}{379}, \frac{119}{1137}, -\frac{158}{1137}, \frac{121}{1137}, \frac{134}{379}, \frac{13}{379}, -\frac{41}{1137}, -\frac{203}{1137})$ $+\frac{1}{1137} \sqrt{353234}e^3 \otimes e_9 + \frac{2}{1137} \sqrt{73738}e^1 \otimes e_7$	{12348, 15689, 24579, 367}
9521:2	$0, 0, 0, 0, \frac{42}{1639} \sqrt{51}e^{12}, \frac{4}{149} \sqrt{357}e^{13}, \frac{4}{1639} \sqrt{11067}e^{34},$ $\frac{2}{1639} \sqrt{23205}e^{25}, \frac{2}{1639} \sqrt{108885}e^{28}$	$(\frac{431}{1639}, -\frac{238}{1639}, -\frac{413}{1639}, \frac{732}{1639}, \frac{193}{1639}, \frac{18}{1639}, \frac{29}{149}, -\frac{45}{1639}, -\frac{283}{1639})$ $+\frac{18}{1639} \sqrt{3451}e^1 \otimes e_9 + \frac{2}{1639} \sqrt{235977}e^4 \otimes e_6$	{12348, 1268, 235679, 24579}
9521:2	$0, 0, 0, 0, \frac{18}{1697} \sqrt{4845}e^{12}, \frac{9}{1697} \sqrt{8854}e^{13}, \frac{36}{1697} \sqrt{1159}e^{34},$ $\frac{36}{1697} \sqrt{247}e^{25}, \frac{18}{1697} \sqrt{627}e^{28}$	$(\frac{954}{1697}, -\frac{236}{1697}, -\frac{409}{1697}, -\frac{176}{1697}, \frac{718}{1697}, \frac{545}{1697}, -\frac{585}{1697}, \frac{482}{1697}, \frac{246}{1697})$ $+\frac{9}{1697} \sqrt{52630}e^1 \otimes e_7$	{123489, 12689, 13458, 1568, 23567, 2457, 3679, 479}
9521:2	$0, 0, 0, 0, \frac{1}{256} \sqrt{2146}e^{12}, \frac{1}{128} \sqrt{1517}e^{13}, \frac{1}{256} \sqrt{4070}e^{34}, \frac{1}{128} \sqrt{2035}e^{25},$ $\frac{1}{256} \sqrt{11914}e^{28}$	$(-\frac{23}{256}, \frac{15}{256}, -\frac{9}{64}, \frac{3}{8}, -\frac{1}{32}, -\frac{59}{256}, \frac{15}{64}, \frac{7}{256}, \frac{11}{128})$ $+\frac{1}{128} \sqrt{3367}e^4 \otimes e_9 + \frac{1}{256} \sqrt{19610}e^2 \otimes e_6$	{12348, 15689, 259, 346}
9521:2	$0, 0, 0, 0, \frac{76}{211} \sqrt{2}e^{12}, \frac{4}{211} \sqrt{1273}e^{13}, \frac{16}{211} \sqrt{57}e^{34}, \frac{8}{211} \sqrt{57}e^{25},$ $\frac{4}{211} \sqrt{1577}e^{28}$	$(\frac{7}{211}, -\frac{21}{211}, \frac{96}{211}, -\frac{12}{211}, -\frac{14}{211}, \frac{103}{211}, \frac{84}{211}, -\frac{35}{211}, -\frac{56}{211})$ $+\frac{20}{211} \sqrt{133}e^3 \otimes e_9$	{1245679, 12569, 134, 137, 23468, 23678, 45789, 589}
9521:2	$0, 0, 0, 0, \frac{3}{497} \sqrt{530}e^{12}, \frac{12}{497} \sqrt{5}e^{13}, \frac{3}{497} \sqrt{1630}e^{34}, \frac{15}{497} \sqrt{42}e^{25},$ $\frac{6}{497} \sqrt{370}e^{28}$	$(-\frac{3}{497}, \frac{9}{497}, \frac{69}{497}, -\frac{15}{71}, \frac{6}{497}, \frac{66}{497}, -\frac{36}{497}, \frac{15}{497}, \frac{24}{497})$ $+\frac{3}{497} \sqrt{2570}e^2 \otimes e_7 + \frac{6}{497} \sqrt{455}e^3 \otimes e_9$	{12348, 1456789, 259, 367}
9521:2	$0, 0, 0, 0, \frac{16}{219} \sqrt{30}e^{12}, \frac{16}{219} \sqrt{66}e^{13}, \frac{16}{73} e^{34}, \frac{16}{219} \sqrt{73}e^{25},$ $\frac{16}{73} \sqrt{7}e^{28}$	$(-\frac{19}{73}, \frac{53}{219}, -\frac{6}{73}, \frac{16}{73}, -\frac{219}{73}, -\frac{25}{73}, \frac{10}{73}, \frac{49}{219}, \frac{34}{73})$ $+\frac{32}{73} \sqrt{5}e^2 \otimes e_6$	{123478, 1238, 145689, 156789, 2459, 2579, 3467, 36}
9521:2	$0, 0, 0, 0, \frac{2}{167} \sqrt{553}e^{12}, \frac{2}{167} \sqrt{553}e^{13}, \frac{2}{167} \sqrt{4582}e^{34}, \frac{2}{167} \sqrt{790}e^{25},$ $\frac{2}{167} \sqrt{4582}e^{28}$	$(\frac{44}{167}, -\frac{31}{167}, -\frac{21}{167}, \frac{109}{167}, \frac{13}{167}, \frac{23}{167}, \frac{88}{167}, -\frac{18}{167}, -\frac{49}{167})$ $+\frac{2}{167} \sqrt{10823}e^4 \otimes e_9$	{1235679, 1259, 1346, 147, 2348, 24678, 35789, 5689}
9521:2	$0, 0, 0, 0, \frac{6}{1673} \sqrt{9255}e^{12}, \frac{2}{1673} \sqrt{418326}e^{13}, \frac{1}{1673} \sqrt{1506714}e^{34},$ $\frac{2}{1673} \sqrt{98103}e^{25}, \frac{4}{1673} \sqrt{31467}e^{28}$	$(-\frac{44}{1673}, \frac{166}{1673}, -\frac{541}{1673}, \frac{1266}{1673}, \frac{122}{1673}, -\frac{585}{1673}, \frac{725}{1673}, \frac{288}{1673}, \frac{454}{1673})$ $+\frac{1}{1673} \sqrt{5016210}e^4 \otimes e_6$	{123459, 12569, 134, 16, 23678, 2478, 356789, 45789}
9521:2	$0, 0, 0, 0, \frac{12}{301} \sqrt{15}e^{12}, \frac{12}{301} \sqrt{130}e^{13}, \frac{6}{301} \sqrt{115}e^{34}, \frac{12}{301} \sqrt{85}e^{25},$ $\frac{48}{301} \sqrt{5}e^{28}$	$(-\frac{81}{301}, \frac{60}{301}, \frac{51}{301}, -\frac{39}{301}, -\frac{3}{43}, -\frac{30}{301}, \frac{12}{301}, \frac{39}{301}, \frac{99}{301})$ $+\frac{6}{301} \sqrt{485}e^3 \otimes e_4 + \frac{78}{301} \sqrt{5}e^2 \otimes e_6$	{1238, 145689, 2459, 36}
9521:2	$0, 0, 0, 0, \frac{6}{2749} \sqrt{38885}e^{12}, \frac{4}{2749} \sqrt{33330}e^{13}, \frac{40}{2749} \sqrt{1111}e^{34},$ $\frac{12}{2749} \sqrt{11110}e^{25}, \frac{2}{2749} \sqrt{283305}e^{28}$	$(-\frac{21}{2749}, \frac{330}{2749}, \frac{165}{2749}, -\frac{845}{2749}, \frac{309}{2749}, \frac{144}{2749}, -\frac{680}{2749}, \frac{639}{2749}, \frac{969}{2749})$ $+\frac{2}{2749} \sqrt{188365}e^3 \otimes e_4 + \frac{8}{2749} \sqrt{62115}e^2 \otimes e_7$	{1356789, 145789, 37, 467}
9521:2	$0, 0, 0, 0, \frac{1}{1743} \sqrt{767010}e^{12}, \frac{2}{1743} \sqrt{109869}e^{13}, \frac{1}{1743} \sqrt{949434}e^{34},$ $\frac{1}{1743} \sqrt{802942}e^{25}, \frac{2}{581} \sqrt{15202}e^{28}$	$(\frac{17}{581}, \frac{211}{1743}, -\frac{27}{581}, -\frac{19}{83}, \frac{262}{1743}, -\frac{10}{581}, -\frac{160}{581}, \frac{473}{1743}, \frac{228}{581})$ $+\frac{1}{1743} \sqrt{2010810}e^2 \otimes e_7$	{123468, 128, 1356789, 145789, 23459, 2569, 37, 467}
9521:2	$0, 0, 0, 0, \frac{4}{23} \sqrt{3}e^{12}, \frac{3}{23} \sqrt{6}e^{13}, \frac{2}{23} \sqrt{5}e^{34}, \frac{4}{23} \sqrt{3}e^{25},$ $\frac{4}{23} \sqrt{2}e^{28}$	$(\frac{6}{115}, \frac{8}{115}, -\frac{1}{5}, \frac{4}{115}, \frac{14}{115}, -\frac{17}{115}, -\frac{19}{115}, \frac{22}{115}, \frac{6}{23})$ $+\frac{1}{23} \sqrt{86}e^1 \otimes e_7 + \frac{2}{23} \sqrt{29}e^2 \otimes e_6$	{12348, 15689, 24579, 367}
9521:2	$0, 0, 0, 0, \frac{14}{4521} \sqrt{10873}e^{12}, \frac{2}{4521} \sqrt{162309}e^{13}, \frac{4}{4521} \sqrt{331954}e^{34},$ $\frac{4}{1507} \sqrt{4585}e^{25}, \frac{16}{4521} \sqrt{9170}e^{28}$	$(\frac{1802}{4521}, -\frac{287}{1507}, -\frac{1085}{4521}, \frac{351}{1507}, \frac{941}{4521}, \frac{239}{1507}, -\frac{32}{4521}, \frac{80}{4521}, -\frac{71}{411})$ $+\frac{2}{4521} \sqrt{1798237}e^4 \otimes e_9 + \frac{4}{4521} \sqrt{463085}e^1 \otimes e_7$	{12348, 15689, 235679, 47}
9521:2	$0, 0, 0, 0, \frac{30}{5209} \sqrt{485}e^{12}, \frac{60}{5209} \sqrt{2310}e^{13}, \frac{360}{5209} \sqrt{15}e^{34},$ $\frac{60}{5209} \sqrt{230}e^{25}, \frac{30}{5209} \sqrt{5105}e^{28}$	$(\frac{1215}{5209}, -\frac{750}{5209}, \frac{1185}{5209}, -\frac{1065}{5209}, \frac{465}{5209}, \frac{2400}{5209}, \frac{120}{5209}, -\frac{285}{5209}, -\frac{1035}{5209})$ $+\frac{120}{5209} \sqrt{815}e^1 \otimes e_9 + \frac{30}{5209} \sqrt{10245}e^3 \otimes e_4$	{1238, 12468, 23569, 2459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:2	$0, 0, 0, 0, \frac{42}{137}e^{12}, \frac{7}{137}\sqrt{55}e^{13}, \frac{7}{137}\sqrt{73}e^{34}, \frac{7}{137}\sqrt{10}e^{25}, \frac{7}{137}\sqrt{2}e^{28}$	$(\frac{35}{137}, -\frac{7}{137}, -\frac{49}{137}, \frac{35}{137}, \frac{28}{137}, -\frac{14}{137}, -\frac{14}{137}, \frac{21}{137}, \frac{14}{137})$ $-\frac{7}{137}\sqrt{113}e^4 \otimes e_6 + \frac{7}{137}\sqrt{131}e^1 \otimes e_7$	{123489, 12689, 13458, 1568, 23567, 2457, 3679, 479}
9521:3	$0, 0, 0, 0, \frac{6}{3853}\sqrt{37291}e^{12}, \frac{2}{3853}\sqrt{152935}e^{13}, \frac{2}{3853}\sqrt{477241}e^{23}, \frac{2}{3853}\sqrt{395117}e^{15}, \frac{52}{3853}\sqrt{419}e^{18}$	$(\frac{409}{3853}, -\frac{103}{3853}, -\frac{326}{3853}, -\frac{941}{3853}, \frac{306}{3853}, \frac{83}{3853}, -\frac{429}{3853}, \frac{715}{3853}, \frac{1124}{3853})$ $+\frac{24}{3853}\sqrt{5866}e^1 \otimes e_7 + \frac{2}{3853}\sqrt{581991}e^2 \otimes e_4$	{12368, 1459, 256789, 347}
9521:3	$0, 0, 0, 0, \frac{2}{451}\sqrt{8745}e^{12}, \frac{1}{451}\sqrt{5830}e^{13}, \frac{2}{451}\sqrt{17490}e^{23}, \frac{2}{451}\sqrt{20405}e^{15}, \frac{2}{451}\sqrt{17490}e^{18}$	$(\frac{10}{41}, -\frac{116}{451}, -\frac{39}{451}, \frac{2}{451}, -\frac{6}{451}, \frac{71}{451}, -\frac{155}{451}, \frac{104}{451}, \frac{214}{451})$ $+\frac{3}{451}\sqrt{21730}e^1 \otimes e_7$	{123468, 12368, 1459, 159, 2456789, 256789, 347, 37}
9521:3	$0, 0, 0, 0, \frac{2}{835}\sqrt{5402}e^{12}, \frac{2}{167}\sqrt{1110}e^{13}, \frac{8}{835}\sqrt{2109}e^{23}, \frac{2}{835}\sqrt{5106}e^{15}, \frac{2}{835}\sqrt{17094}e^{18}$	$(-\frac{148}{835}, \frac{46}{167}, \frac{82}{835}, \frac{84}{835}, \frac{82}{835}, -\frac{66}{835}, \frac{312}{835}, -\frac{66}{835}, -\frac{214}{835})$ $-\frac{2}{835}\sqrt{61198}e^3 \otimes e_9 + \frac{6}{167}\sqrt{222}e^2 \otimes e_6$	{123458, 12358, 1469, 169, 24789, 2789, 34567, 3567}
9521:3	$0, 0, 0, 0, \frac{2}{835}\sqrt{5402}e^{12}, \frac{2}{167}\sqrt{1110}e^{13}, \frac{8}{835}\sqrt{2109}e^{23}, \frac{2}{835}\sqrt{5106}e^{15}, \frac{2}{835}\sqrt{17094}e^{18}$	$(-\frac{148}{835}, \frac{46}{167}, \frac{82}{835}, \frac{84}{835}, \frac{82}{835}, -\frac{66}{835}, \frac{312}{835}, -\frac{66}{835}, -\frac{214}{835})$ $+\frac{2}{835}\sqrt{61198}e^3 \otimes e_9 + \frac{6}{167}\sqrt{222}e^2 \otimes e_6$	{123458, 12358, 1469, 169, 24789, 2789, 34567, 3567}
9521:3	$0, 0, 0, 0, \frac{4}{1211}\sqrt{27699}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{26}{1211}\sqrt{1319}e^{23}, \frac{1}{1211}\sqrt{145090}e^{15}, \frac{1}{1211}\sqrt{2638}e^{18}$	$(\frac{57}{1211}, \frac{30}{1211}, \frac{508}{1211}, \frac{811}{1211}, \frac{87}{1211}, \frac{565}{1211}, \frac{538}{1211}, \frac{144}{1211}, \frac{201}{1211})$ $+\frac{1}{1211}\sqrt{2667018}e^3 \otimes e_4$	{12358, 1245678, 1379, 1469, 23689, 24789, 3567, 45}
9521:3	$0, 0, 0, 0, \frac{12}{3467}\sqrt{14433}e^{12}, \frac{24}{3467}\sqrt{2567}e^{13}, \frac{12}{3467}\sqrt{1853}e^{23}, \frac{84}{3467}\sqrt{170}e^{15}, \frac{36}{3467}\sqrt{391}e^{18}$	$(-\frac{76}{3467}, \frac{822}{3467}, -\frac{326}{3467}, -\frac{1300}{3467}, \frac{746}{3467}, -\frac{402}{3467}, \frac{496}{3467}, \frac{670}{3467}, \frac{594}{3467})$ $+\frac{12}{3467}\sqrt{23681}e^2 \otimes e_6 + \frac{12}{3467}\sqrt{28679}e^1 \otimes e_4$	{1238, 1569, 245789, 3467}
9521:3	$0, 0, 0, 0, \frac{21}{142}\sqrt{2}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{6}{71}\sqrt{42}e^{23}, \frac{3}{142}\sqrt{119}e^{15}, \frac{3}{142}\sqrt{434}e^{18}$	$(-\frac{21}{142}, \frac{18}{71}, \frac{57}{284}, -\frac{69}{284}, \frac{15}{142}, \frac{15}{284}, \frac{129}{284}, -\frac{3}{71}, -\frac{27}{142})$ $+\frac{3}{142}\sqrt{1043}e^2 \otimes e_9 + \frac{3}{142}\sqrt{714}e^3 \otimes e_4$	{12368, 12478, 135679, 1459}
9521:3	$0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{3}{34}\sqrt{14}e^{13}, \frac{2}{17}\sqrt{21}e^{23}, \frac{1}{34}\sqrt{105}e^{15}, \frac{2}{17}\sqrt{21}e^{18}$	$(-\frac{7}{34}, \frac{13}{34}, -\frac{1}{68}, \frac{27}{68}, \frac{3}{17}, -\frac{15}{68}, \frac{25}{68}, -\frac{1}{34}, -\frac{4}{17})$ $+\frac{1}{34}\sqrt{861}e^2 \otimes e_9 + \frac{3}{34}\sqrt{42}e^4 \otimes e_6$	{12368, 12478, 135679, 1459}
9521:3	$0, 0, 0, 0, \frac{5}{479}\sqrt{1337}e^{12}, \frac{5}{479}\sqrt{399}e^{13}, \frac{70}{479}\sqrt{13}e^{23}, \frac{10}{479}\sqrt{21}e^{15}, \frac{35}{479}\sqrt{35}e^{18}$	$(-\frac{15}{479}, -\frac{40}{479}, \frac{90}{479}, \frac{225}{479}, -\frac{55}{479}, \frac{75}{479}, \frac{50}{479}, -\frac{70}{479}, -\frac{85}{479})$ $+\frac{10}{479}\sqrt{889}e^3 \otimes e_9 + \frac{35}{479}\sqrt{51}e^4 \otimes e_7$	{125679, 1378, 2346, 4589}
9521:3	$0, 0, 0, 0, \frac{2}{1241}\sqrt{177519}e^{12}, \frac{4}{1241}\sqrt{46583}e^{13}, \frac{1}{1241}\sqrt{556478}e^{23}, \frac{2}{1241}\sqrt{17626}e^{15}, \frac{2}{1241}\sqrt{76799}e^{18}$	$(-\frac{216}{1241}, \frac{738}{1241}, -\frac{305}{1241}, \frac{212}{1241}, \frac{522}{1241}, -\frac{521}{1241}, \frac{433}{1241}, \frac{18}{73}, \frac{90}{1241})$ $+\frac{7}{1241}\sqrt{52878}e^2 \otimes e_6$	{123, 1234, 145689, 15689, 24579, 2579, 34678, 3678}
9521:3	$0, 0, 0, 0, \frac{2}{2945}\sqrt{259791}e^{12}, \frac{4}{2945}\sqrt{60326}e^{13}, \frac{2}{2945}\sqrt{419363}e^{23}, \frac{2}{2945}\sqrt{36974}e^{15}, \frac{4}{2945}\sqrt{79786}e^{18}$	$(-\frac{519}{2945}, \frac{222}{589}, -\frac{317}{2945}, \frac{1499}{2945}, \frac{591}{2945}, -\frac{44}{155}, \frac{793}{2945}, \frac{72}{2945}, -\frac{447}{2945})$ $+\frac{2}{2945}\sqrt{1106301}e^4 \otimes e_9 + \frac{2}{2945}\sqrt{1406958}e^2 \otimes e_6$	{12348, 1569, 25789, 3467}
9521:3	$0, 0, 0, 0, \frac{30}{3721}\sqrt{569}e^{12}, \frac{4}{3721}\sqrt{33571}e^{13}, \frac{22}{3721}\sqrt{3983}e^{23}, \frac{2}{3721}\sqrt{524618}e^{15}, \frac{4}{3721}\sqrt{176959}e^{18}$	$(\frac{375}{3721}, -\frac{612}{3721}, -\frac{151}{3721}, \frac{1651}{3721}, -\frac{237}{3721}, \frac{224}{3721}, -\frac{763}{3721}, \frac{138}{3721}, \frac{513}{3721})$ $+\frac{2}{3721}\sqrt{677679}e^4 \otimes e_9 + \frac{6}{3721}\sqrt{130870}e^1 \otimes e_7$	{123468, 159, 256789, 347}
9521:3	$0, 0, 0, 0, \frac{1}{547}\sqrt{47874}e^{12}, \frac{1}{547}\sqrt{79158}e^{13}, \frac{3}{547}\sqrt{4898}e^{23}, \frac{3}{547}\sqrt{2054}e^{15}, \frac{3}{547}\sqrt{4898}e^{18}$	$(-\frac{70}{547}, \frac{58}{547}, \frac{85}{547}, \frac{252}{547}, -\frac{12}{547}, \frac{15}{547}, \frac{143}{547}, -\frac{82}{547}, -\frac{152}{547})$ $+\frac{1}{547}\sqrt{139830}e^3 \otimes e_9 + \frac{6}{547}\sqrt{23937}e^4 \otimes e_6$	{123458, 169, 24789, 3567}
9521:3	$0, 0, 0, 0, \frac{1}{457}\sqrt{15366}e^{12}, \frac{1}{457}\sqrt{22458}e^{13}, \frac{2}{457}\sqrt{7683}e^{23}, \frac{1}{457}\sqrt{35854}e^{15}, \frac{2}{457}\sqrt{7683}e^{18}$	$(\frac{65}{457}, -\frac{57}{457}, -\frac{75}{457}, \frac{187}{457}, \frac{8}{457}, -\frac{10}{457}, \frac{132}{457}, \frac{73}{457}, \frac{138}{457})$ $+\frac{1}{457}\sqrt{50038}e^4 \otimes e_6 + \frac{6}{457}\sqrt{2955}e^1 \otimes e_7$	{12348, 1569, 245789, 367}
9521:3	$0, 0, 0, 0, \frac{6}{157}\sqrt{415}e^{12}, \frac{2}{157}\sqrt{2407}e^{13}, \frac{2}{157}\sqrt{3901}e^{23}, \frac{2}{157}\sqrt{1577}e^{15}, \frac{4}{157}\sqrt{83}e^{18}$	$(-\frac{11}{157}, \frac{65}{157}, \frac{10}{157}, -\frac{101}{157}, \frac{54}{157}, -\frac{1}{157}, \frac{75}{157}, \frac{43}{157}, \frac{32}{157})$ $+\frac{2}{157}\sqrt{10707}e^2 \otimes e_4$	{12368, 1278, 1345679, 1459, 23589, 256789, 347, 46}
9521:3	$0, 0, 0, 0, \frac{1}{1301}\sqrt{654198}e^{12}, \frac{5}{1301}\sqrt{10190}e^{13}, \frac{12}{1301}\sqrt{1019}e^{23}, \frac{28}{1301}\sqrt{1019}e^{15}, \frac{1}{1301}\sqrt{580830}e^{18}$	$(\frac{178}{1301}, -\frac{19}{1301}, \frac{177}{1301}, -\frac{841}{1301}, \frac{159}{1301}, \frac{355}{1301}, \frac{158}{1301}, \frac{337}{1301}, \frac{515}{1301})$ $+\frac{3}{1301}\sqrt{242522}e^1 \otimes e_4$	{12378, 1268, 1359, 15679, 23456789, 24589, 346, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:3	$0, 0, 0, 0, \frac{4}{1679} \sqrt{2946}e^{12}, \frac{1}{1679} \sqrt{181670}e^{13}, \frac{2}{1679} \sqrt{118331}e^{23},$ $\frac{1}{1679} \sqrt{299510}e^{15}, \frac{17}{1679} \sqrt{982}e^{18}$	$(\frac{273}{1679}, -\frac{330}{1679}, \frac{112}{1679}, -\frac{379}{1679}, -\frac{57}{1679}, \frac{385}{1679}, -\frac{218}{1679}, \frac{216}{1679}, \frac{489}{1679})$ $+\frac{1}{1679} \sqrt{568578}e^3 \otimes e_4 + \frac{30}{1679} \sqrt{982}e^1 \otimes e_7$	{1238, 14569, 245789, 367}
9521:3	$0, 0, 0, 0, \frac{1}{77} \sqrt{582}e^{12}, \frac{1}{77} \sqrt{6402}e^{13}, \frac{2}{77} \sqrt{291}e^{23}, \frac{1}{77} \sqrt{1358}e^{15},$ $\frac{2}{77} \sqrt{291}e^{18}$	$(-\frac{5}{77}, \frac{3}{11}, -\frac{15}{77}, \frac{1}{77}, \frac{16}{77}, -\frac{20}{77}, \frac{6}{77}, \frac{1}{7}, \frac{6}{77})$ $+\frac{1}{77} \sqrt{12610}e^4 \otimes e_6$	{12345789, 125689, 134, 167, 23678, 248, 3569, 4579}
9521:3	$0, 0, 0, 0, \frac{4}{1387} \sqrt{870}e^{12}, \frac{6}{1387} \sqrt{395}e^{13}, \frac{8}{1387} \sqrt{435}e^{23}, \frac{14}{1387} \sqrt{105}e^{15},$ $\frac{8}{1387} \sqrt{435}e^{18}$	$(-\frac{10}{1387}, \frac{43}{1387}, -\frac{83}{1387}, \frac{144}{1387}, \frac{33}{1387}, -\frac{93}{1387}, -\frac{40}{1387}, \frac{23}{1387}, \frac{13}{1387})$ $+\frac{10}{1387} \sqrt{357}e^2 \otimes e_9 + \frac{36}{1387} \sqrt{30}e^1 \otimes e_7$	{123468, 12368, 1459, 159}
9521:3	$0, 0, 0, 0, \frac{4}{107} \sqrt{195}e^{12}, \frac{6}{107} \sqrt{143}e^{13}, \frac{4}{107} \sqrt{390}e^{23}, \frac{2}{107} \sqrt{663}e^{15},$ $\frac{4}{107} \sqrt{390}e^{18}$	$(-\frac{26}{107}, \frac{47}{107}, \frac{11}{107}, \frac{18}{107}, \frac{21}{107}, -\frac{15}{107}, \frac{58}{107}, -\frac{5}{107}, -\frac{31}{107})$ $+\frac{2}{107} \sqrt{3471}e^2 \otimes e_9$	{123468, 12368, 12478, 1278, 1345679, 135679, 1459, 159}
9521:3	$0, 0, 0, 0, \frac{2}{2965} \sqrt{47357}e^{12}, \frac{2}{2965} \sqrt{2001}e^{13}, \frac{2}{2965} \sqrt{658329}e^{23},$ $\frac{58}{2965} \sqrt{69}e^{15}, \frac{12}{2965} \sqrt{11339}e^{18}$	$(-\frac{367}{2965}, \frac{109}{2965}, \frac{778}{2965}, -\frac{789}{2965}, \frac{178}{2965}, \frac{411}{2965}, \frac{1323}{2965}, -\frac{189}{2965}, -\frac{556}{2965})$ $+\frac{6}{2965} \sqrt{3335}e^2 \otimes e_4 + \frac{8}{2965} \sqrt{62698}e^3 \otimes e_9$	{125679, 13478, 236, 4589}
9521:3	$0, 0, 0, 0, \frac{72}{3401} \sqrt{235}e^{12}, \frac{18}{3401} \sqrt{1995}e^{13}, \frac{72}{3401} \sqrt{165}e^{23},$ $\frac{18}{3401} \sqrt{3745}e^{15}, \frac{36}{3401} \sqrt{1270}e^{18}$	$(-\frac{270}{3401}, \frac{657}{3401}, \frac{255}{3401}, -\frac{1080}{3401}, \frac{387}{3401}, -\frac{15}{3401}, \frac{48}{179}, \frac{117}{3401}, -\frac{153}{3401})$ $+\frac{18}{3401} \sqrt{7765}e^2 \otimes e_9 + \frac{36}{3401} \sqrt{1830}e^1 \otimes e_4$	{12368, 1278, 135679, 159}
9521:3	$0, 0, 0, 0, \frac{9}{245} \sqrt{37}e^{12}, \frac{9}{245} \sqrt{123}e^{13}, \frac{72}{245} \sqrt{3}e^{23}, \frac{9}{245} \sqrt{58}e^{15},$ $\frac{9}{245} \sqrt{133}e^{18}$	$(-\frac{27}{245}, \frac{6}{35}, -\frac{9}{245}, \frac{114}{245}, \frac{3}{49}, -\frac{36}{245}, \frac{33}{245}, -\frac{12}{245}, -\frac{39}{245})$ $+\frac{9}{245} \sqrt{177}e^4 \otimes e_7 + \frac{3}{245} \sqrt{262}e^2 \otimes e_9$	{123468, 1278, 135679, 1459}
9521:3	$0, 0, 0, 0, \frac{3}{311} \sqrt{1915}e^{12}, \frac{1}{311} \sqrt{29491}e^{13}, \frac{1}{311} \sqrt{30257}e^{23}, \frac{8}{311} \sqrt{383}e^{15},$ $\frac{2}{311} \sqrt{23746}e^{18}$	$(-\frac{75}{622}, \frac{81}{622}, \frac{113}{622}, \frac{1}{622}, \frac{3}{311}, \frac{19}{311}, \frac{97}{311}, -\frac{69}{622}, -\frac{72}{311})$ $+\frac{13}{311} \sqrt{1149}e^4 \otimes e_9$	{123569, 12579, 134678, 148, 234, 2467, 35789, 5689}
9521:3	$0, 0, 0, 0, \frac{3}{311} \sqrt{1915}e^{12}, \frac{1}{311} \sqrt{29491}e^{13}, \frac{2}{311} \sqrt{23746}e^{23}, \frac{8}{311} \sqrt{383}e^{15},$ $\frac{1}{311} \sqrt{30257}e^{18}$	$(\frac{47}{311}, -\frac{44}{311}, -\frac{28}{311}, \frac{1}{311}, \frac{3}{311}, \frac{19}{311}, -\frac{72}{311}, \frac{50}{311}, \frac{97}{311})$ $+\frac{13}{311} \sqrt{1149}e^4 \otimes e_7$	{1234569, 12579, 13678, 148, 234, 267, 35789, 45689}
9521:3	$0, 0, 0, 0, \frac{88}{3043} \sqrt{5}e^{12}, \frac{44}{3043} \sqrt{453}e^{13}, \frac{132}{3043} \sqrt{47}e^{23}, \frac{44}{3043} \sqrt{411}e^{15},$ $\frac{44}{3043} \sqrt{870}e^{18}$	$(-\frac{28}{3043}, -\frac{58}{3043}, \frac{826}{3043}, -\frac{996}{3043}, -\frac{86}{3043}, \frac{798}{3043}, \frac{768}{3043}, -\frac{114}{3043}, -\frac{142}{3043})$ $+\frac{132}{3043} \sqrt{149}e^1 \otimes e_4 + \frac{44}{3043} \sqrt{1357}e^3 \otimes e_9$	{125679, 1378, 2346, 4589}
9521:3	$0, 0, 0, 0, \frac{2}{461} \sqrt{4242}e^{12}, \frac{1}{461} \sqrt{8585}e^{13}, \frac{1}{461} \sqrt{22523}e^{23}, \frac{1}{461} \sqrt{16766}e^{15},$ $\frac{1}{461} \sqrt{11110}e^{18}$	$(\frac{27}{461}, \frac{27}{461}, -\frac{101}{461}, \frac{53}{461}, \frac{54}{461}, -\frac{74}{461}, -\frac{74}{461}, \frac{81}{461}, \frac{108}{461})$ $-\frac{1}{461} \sqrt{34239}e^2 \otimes e_6 + \frac{3}{461} \sqrt{5353}e^1 \otimes e_7$	{12348, 1238, 14569, 1569, 245789, 25789, 3467, 367}
9521:3	$0, 0, 0, 0, \frac{2}{461} \sqrt{4242}e^{12}, \frac{1}{461} \sqrt{8585}e^{13}, \frac{1}{461} \sqrt{22523}e^{23}, \frac{1}{461} \sqrt{16766}e^{15},$ $\frac{1}{461} \sqrt{11110}e^{18}$	$(\frac{27}{461}, \frac{27}{461}, -\frac{101}{461}, \frac{53}{461}, \frac{54}{461}, -\frac{74}{461}, -\frac{74}{461}, \frac{81}{461}, \frac{108}{461})$ $+\frac{1}{461} \sqrt{34239}e^2 \otimes e_6 + \frac{3}{461} \sqrt{5353}e^1 \otimes e_7$	{12348, 1238, 14569, 1569, 245789, 25789, 3467, 367}
9521:3	$0, 0, 0, 0, \frac{1}{415} \sqrt{66458}e^{12}, \frac{1}{83} \sqrt{1974}e^{13}, \frac{7}{415} \sqrt{1974}e^{23}, \frac{1}{415} \sqrt{1974}e^{15},$ $\frac{7}{415} \sqrt{1974}e^{18}$	$(-\frac{52}{415}, \frac{4}{83}, \frac{193}{415}, \frac{66}{415}, -\frac{32}{415}, \frac{141}{415}, \frac{213}{415}, -\frac{84}{415}, -\frac{136}{415})$ $+\frac{1}{415} \sqrt{229642}e^3 \otimes e_9$	{123458, 12358, 1469, 169, 24789, 2789, 34567, 3567}
9521:3	$0, 0, 0, 0, \frac{27}{457} \sqrt{26}e^{12}, \frac{9}{457} \sqrt{222}e^{13}, \frac{9}{457} \sqrt{762}e^{23}, \frac{18}{457} \sqrt{6}e^{15},$ $\frac{27}{457} \sqrt{6}e^{18}$	$(-\frac{22}{457}, \frac{106}{457}, -\frac{115}{457}, \frac{234}{457}, \frac{84}{457}, -\frac{137}{457}, -\frac{9}{457}, \frac{62}{457}, \frac{40}{457})$ $+\frac{9}{457} \sqrt{1110}e^4 \otimes e_7 + \frac{9}{457} \sqrt{1338}e^2 \otimes e_6$	{123489, 1456, 2578, 3679}
9521:3	$0, 0, 0, 0, \frac{2}{1987} \sqrt{29055}e^{12}, \frac{4}{1987} \sqrt{55130}e^{13}, \frac{1}{1987} \sqrt{654110}e^{23},$ $\frac{10}{1987} \sqrt{2086}e^{15}, \frac{2}{1987} \sqrt{61835}e^{18}$	$(-\frac{192}{1987}, \frac{582}{1987}, \frac{29}{1987}, -\frac{716}{1987}, \frac{390}{1987}, -\frac{163}{1987}, \frac{611}{1987}, \frac{198}{1987}, \frac{6}{1987})$ $+\frac{3}{1987} \sqrt{153470}e^2 \otimes e_6 + \frac{4}{1987} \sqrt{82695}e^3 \otimes e_4$	{123, 145689, 24579, 3678}
9521:4	$0, 0, 0, 0, \frac{36}{3197} \sqrt{1079}e^{12}, \frac{6}{3197} \sqrt{32331}e^{13}, \frac{6}{3197} \sqrt{24258}e^{14},$ $\frac{12}{3197} \sqrt{7293}e^{15}, \frac{312}{3197} \sqrt{6}e^{18}$	$(\frac{84}{3197}, \frac{459}{3197}, -\frac{618}{3197}, -\frac{327}{3197}, \frac{543}{3197}, -\frac{534}{3197}, -\frac{243}{3197}, \frac{627}{3197}, \frac{711}{3197})$ $+\frac{12}{3197} \sqrt{11310}e^2 \otimes e_7 + \frac{78}{3197} \sqrt{402}e^1 \otimes e_3$	{1248, 1579, 23589, 347}
9521:4	$0, 0, 0, 0, \frac{2}{717} \sqrt{12535}e^{12}, \frac{10}{717} \sqrt{763}e^{13}, \frac{4}{717} \sqrt{654}e^{14}, \frac{4}{239} \sqrt{218}e^{15},$ $\frac{10}{717} \sqrt{22999}e^{18}$	$(\frac{16}{239}, -\frac{170}{717}, \frac{64}{239}, \frac{41}{717}, -\frac{122}{717}, \frac{80}{239}, \frac{89}{717}, -\frac{74}{717}, -\frac{26}{717})$ $+\frac{10}{717} \sqrt{1526}e^1 \otimes e_2 + \frac{2}{717} \sqrt{32918}e^3 \otimes e_9$	{1348, 1378, 23467, 236}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:4	$0, 0, 0, 0, \frac{3}{148}\sqrt{581}e^{12}, \frac{1}{296}\sqrt{23655}e^{13}, \frac{1}{296}\sqrt{23655}e^{14}, \frac{1}{296}\sqrt{33366}e^{15},$ $\frac{9}{296}\sqrt{498}e^{18}$	$(\frac{95}{296}, -\frac{77}{148}, \frac{5}{592}, \frac{5}{592}, -\frac{59}{296}, \frac{195}{592}, \frac{195}{592}, \frac{9}{74}, \frac{131}{296})$ $+\frac{3}{148}\sqrt{3403}e^1 \otimes e_2$	{1348, 1378, 1678, 2, 23467, 236}
9521:4	$0, 0, 0, 0, \frac{3}{281}\sqrt{5681}e^{12}, \frac{5}{281}\sqrt{2093}e^{13}, \frac{1}{281}\sqrt{18239}e^{14}, \frac{2}{281}\sqrt{598}e^{15},$ $\frac{13}{281}\sqrt{115}e^{18}$	$(-\frac{61}{281}, \frac{391}{562}, -\frac{85}{562}, \frac{151}{562}, \frac{269}{562}, -\frac{207}{562}, \frac{29}{562}, \frac{147}{562}, \frac{25}{562})$ $+\frac{2}{281}\sqrt{35282}e^2 \otimes e_6$	{123, 12347, 1456789, 15689, 2459, 2579, 3468, 3678}
9521:4	$0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{3}e^{14}, \frac{1}{3}\sqrt{3}e^{15},$ $\frac{1}{3}\sqrt{6}e^{18}$	$(-\frac{1}{3}, \frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, -\frac{1}{3})$ $+\frac{1}{3}\sqrt{15}e^2 \otimes e_9$	{1234678, 12368, 128, 1345679, 13569, 159}
9521:4	$0, 0, 0, 0, \frac{3}{367}\sqrt{715}e^{12}, \frac{1}{367}\sqrt{44715}e^{13}, \frac{3}{367}\sqrt{2035}e^{14}, \frac{18}{367}\sqrt{55}e^{15},$ $\frac{11}{367}\sqrt{165}e^{18}$	$(-\frac{67}{367}, \frac{339}{734}, \frac{143}{734}, -\frac{53}{734}, \frac{205}{734}, \frac{9}{734}, -\frac{187}{734}, \frac{71}{734}, -\frac{63}{734})$ $+\frac{2}{367}\sqrt{14685}e^3 \otimes e_7 + \frac{40}{367}\sqrt{33}e^2 \otimes e_6$	{1234, 156789, 24579, 368}
9521:4	$0, 0, 0, 0, \frac{6}{59}\sqrt{34}e^{12}, \frac{2}{59}\sqrt{323}e^{13}, \frac{2}{59}\sqrt{102}e^{14}, \frac{4}{59}\sqrt{102}e^{15},$ $\frac{6}{59}\sqrt{34}e^{18}$	$(\frac{12}{59}, -\frac{9}{59}, -\frac{22}{59}, \frac{3}{59}, \frac{3}{59}, -\frac{10}{59}, \frac{15}{59}, \frac{15}{59}, \frac{27}{59})$ $+\frac{10}{59}\sqrt{34}e^1 \otimes e_3$	{1248, 1278, 1459, 1579, 2345789, 23589, 3, 347}
9521:4	$0, 0, 0, 0, \frac{1}{124}\sqrt{2301}e^{12}, \frac{1}{31}\sqrt{177}e^{13}, \frac{1}{124}\sqrt{1534}e^{14}, \frac{1}{62}\sqrt{767}e^{15},$ $\frac{1}{124}\sqrt{2301}e^{18}$	$(\frac{13}{124}, -\frac{9}{248}, \frac{13}{62}, -\frac{23}{62}, \frac{17}{248}, \frac{39}{124}, -\frac{33}{124}, \frac{43}{62}, \frac{69}{62})$ $+\frac{1}{124}\sqrt{4130}e^3 \otimes e_7 + \frac{1}{62}\sqrt{2183}e^1 \otimes e_4$	{1238, 1359, 2345689, 346}
9521:4	$0, 0, 0, 0, \frac{3}{13}\sqrt{2}e^{12}, \frac{3}{13}\sqrt{3}e^{13}, \frac{3}{13}\sqrt{3}e^{14}, \frac{3}{13}e^{15},$ $\frac{3}{13}\sqrt{2}e^{18}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, 0, \frac{3}{13}, \frac{3}{13}, -\frac{3}{13}, 0, -\frac{3}{13})$ $+\frac{3}{13}\sqrt{11}e^2 \otimes e_9 + \frac{6}{13}\sqrt{3}e^3 \otimes e_7$	{2356, 2457, 3689, 4789}
9521:4	$0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{5}{281}\sqrt{2093}e^{13}, \frac{1}{281}\sqrt{18239}e^{14}, \frac{2}{281}\sqrt{598}e^{15},$ $\frac{3}{281}\sqrt{5681}e^{18}$	$(-\frac{61}{281}, \frac{155}{562}, \frac{387}{562}, \frac{151}{562}, \frac{33}{562}, \frac{265}{562}, \frac{29}{562}, -\frac{89}{562}, -\frac{211}{562})$ $+\frac{2}{281}\sqrt{35282}e^3 \otimes e_9$	{1234578, 12358, 14679, 169, 2489, 2789, 3456, 3567}
9521:4	$0, 0, 0, 0, \frac{6}{437}\sqrt{1335}e^{12}, \frac{14}{437}\sqrt{89}e^{13}, \frac{4}{437}\sqrt{267}e^{14}, \frac{2}{437}\sqrt{10146}e^{15},$ $\frac{2}{437}\sqrt{6141}e^{18}$	$(\frac{24}{437}, \frac{48}{437}, -\frac{154}{437}, \frac{39}{437}, \frac{72}{437}, -\frac{130}{437}, \frac{63}{437}, \frac{96}{437}, \frac{120}{437})$ $+\frac{2}{437}\sqrt{22606}e^1 \otimes e_3 + \frac{4}{437}\sqrt{2937}e^2 \otimes e_6$	{1248, 1278, 2345789, 23589}
9521:4	$0, 0, 0, 0, \frac{2}{15}\sqrt{3}e^{12}, \frac{1}{3}e^{13}, \frac{1}{3}e^{14}, \frac{4}{15}e^{15}, \frac{2}{15}\sqrt{3}e^{18}$	$(-\frac{2}{15}, \frac{7}{30}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{30}, -\frac{1}{30}, -\frac{1}{30}, -\frac{1}{6})$ $+\frac{1}{15}\sqrt{29}e^3 \otimes e_7 - \frac{1}{15}\sqrt{29}e^4 \otimes e_6$	{1234589, 1256789, 134, 167, 2368, 3569}
9521:4	$0, 0, 0, 0, \frac{312}{3197}\sqrt{6}e^{12}, \frac{6}{3197}\sqrt{24258}e^{13}, \frac{6}{3197}\sqrt{32331}e^{14},$ $\frac{12}{3197}\sqrt{7293}e^{15}, \frac{36}{3197}\sqrt{1079}e^{18}$	$(\frac{84}{3197}, -\frac{121}{3197}, \frac{833}{3197}, -\frac{618}{3197}, -\frac{37}{3197}, \frac{917}{3197}, -\frac{534}{3197}, \frac{47}{3197}, \frac{131}{3197})$ $+\frac{12}{3197}\sqrt{11310}e^3 \otimes e_9 + \frac{78}{3197}\sqrt{402}e^1 \otimes e_4$	{1238, 1569, 24589, 346}
9521:4	$0, 0, 0, 0, \frac{11}{367}\sqrt{165}e^{12}, \frac{3}{367}\sqrt{2035}e^{13}, \frac{1}{367}\sqrt{44715}e^{14}, \frac{18}{367}\sqrt{55}e^{15},$ $\frac{3}{367}\sqrt{715}e^{18}$	$(-\frac{67}{367}, \frac{179}{734}, \frac{303}{734}, \frac{107}{734}, \frac{45}{734}, \frac{169}{734}, -\frac{27}{734}, -\frac{89}{734}, -\frac{223}{734})$ $+\frac{2}{367}\sqrt{14685}e^3 \otimes e_7 + \frac{40}{367}\sqrt{33}e^4 \otimes e_9$	{123458, 1679, 23689, 457}
9521:4	$0, 0, 0, 0, \frac{6}{227}\sqrt{111}e^{12}, \frac{9}{227}\sqrt{43}e^{13}, \frac{9}{227}\sqrt{3}e^{14}, \frac{3}{227}\sqrt{417}e^{15},$ $\frac{6}{227}\sqrt{111}e^{18}$	$(-\frac{9}{227}, \frac{33}{227}, -\frac{36}{227}, \frac{24}{227}, \frac{24}{227}, -\frac{45}{227}, \frac{15}{227}, \frac{15}{227}, \frac{6}{227})$ $+\frac{15}{227}\sqrt{21}e^2 \otimes e_9 + \frac{36}{227}\sqrt{5}e^1 \otimes e_3$	{12478, 128, 14579, 159}
9521:4	$0, 0, 0, 0, \frac{2}{15}\sqrt{3}e^{12}, \frac{1}{3}e^{13}, \frac{1}{3}e^{14}, \frac{4}{15}e^{15}, \frac{2}{15}\sqrt{3}e^{18}$	$(-\frac{2}{15}, \frac{7}{30}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{30}, -\frac{1}{30}, -\frac{1}{30}, -\frac{1}{6})$ $+\frac{1}{15}\sqrt{29}e^3 \otimes e_7 + \frac{1}{15}\sqrt{29}e^4 \otimes e_6$	{1234589, 1256789, 134, 167, 2368, 3569}
9521:4	$0, 0, 0, 0, \frac{23}{388}\sqrt{33}e^{12}, \frac{1}{776}\sqrt{110055}e^{13}, \frac{1}{776}\sqrt{110055}e^{14}, \frac{1}{776}\sqrt{506}e^{15},$ $\frac{3}{776}\sqrt{2530}e^{18}$	$(\frac{91}{776}, -\frac{81}{388}, \frac{385}{1552}, -\frac{303}{1552}, -\frac{71}{776}, \frac{567}{1552}, -\frac{121}{1552}, \frac{5}{194}, \frac{111}{776})$ $+\frac{1}{194}\sqrt{10879}e^3 \otimes e_7 + \frac{1}{388}\sqrt{46299}e^1 \otimes e_2$	{1349, 1679, 23689, 24789}
9521:4	$0, 0, 0, 0, \frac{1}{267}\sqrt{8695}e^{12}, \frac{5}{267}\sqrt{407}e^{13}, \frac{5}{267}\sqrt{407}e^{14}, \frac{4}{267}\sqrt{185}e^{15},$ $\frac{1}{267}\sqrt{8695}e^{18}$	$(-\frac{21}{89}, \frac{251}{534}, \frac{81}{178}, \frac{7}{534}, \frac{125}{534}, \frac{39}{178}, -\frac{119}{534}, -\frac{1}{534}, -\frac{127}{534})$ $+\frac{2}{267}\sqrt{10915}e^2 \otimes e_7 + \frac{2}{267}\sqrt{10915}e^3 \otimes e_9$	{12469, 13578, 2356, 4789}
9521:4	$0, 0, 0, 0, \frac{1}{67}\sqrt{1365}e^{12}, \frac{1}{67}\sqrt{3315}e^{13}, \frac{1}{67}\sqrt{3315}e^{14}, \frac{2}{67}\sqrt{455}e^{15},$ $\frac{1}{67}\sqrt{1365}e^{18}$	$(-\frac{7}{67}, \frac{39}{134}, \frac{83}{134}, -\frac{33}{134}, \frac{25}{134}, \frac{69}{134}, -\frac{47}{134}, \frac{11}{134}, -\frac{3}{134})$ $+\frac{2}{67}\sqrt{1885}e^3 \otimes e_7$	{1234589, 1256789, 134, 167, 2368, 2478, 3569, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:5	$0, 0, 0, 0, \frac{3}{89}\sqrt{109}e^{12}, \frac{1}{356}\sqrt{23326}e^{13}, \frac{1}{356}\sqrt{23326}e^{14}, \frac{1}{356}\sqrt{2398}e^{25},$ $\frac{1}{356}\sqrt{7630}e^{28}$	$(-\frac{109}{356}, \frac{59}{356}, \frac{175}{712}, \frac{175}{712}, -\frac{25}{178}, -\frac{43}{712}, -\frac{43}{712}, \frac{9}{356}, \frac{17}{89})$ $+\frac{1}{356}\sqrt{35207}e^3 \otimes e_7 + \frac{1}{356}\sqrt{35207}e^4 \otimes e_6$	{123459, 125679, 134, 167, 2368, 35689}
9521:5	$0, 0, 0, 0, \frac{10}{107}\sqrt{3}e^{12}, \frac{4}{107}\sqrt{105}e^{13}, \frac{4}{107}\sqrt{105}e^{14}, \frac{4}{107}\sqrt{15}e^{25},$ $\frac{2}{107}\sqrt{345}e^{28}$	$(\frac{13}{107}, -\frac{10}{107}, \frac{27}{107}, -\frac{16}{107}, \frac{3}{107}, \frac{40}{107}, -\frac{3}{107}, -\frac{7}{107}, -\frac{17}{107})$ $+\frac{2}{107}\sqrt{645}e^3 \otimes e_7 + \frac{4}{107}\sqrt{195}e^1 \otimes e_9$	{134, 167, 35689, 45789}
9521:5	$0, 0, 0, 0, \frac{3}{1673}\sqrt{1870}e^{12}, \frac{39}{1673}\sqrt{110}e^{13}, \frac{3}{1673}\sqrt{32230}e^{14},$ $\frac{15}{1673}\sqrt{1562}e^{25}, \frac{12}{1673}\sqrt{3795}e^{28}$	$(-\frac{270}{1673}, \frac{141}{1673}, \frac{648}{1673}, -\frac{12}{239}, -\frac{129}{1673}, \frac{54}{239}, -\frac{354}{1673}, \frac{12}{1673}, \frac{153}{1673})$ $+\frac{12}{1673}\sqrt{5885}e^2 \otimes e_7 + \frac{24}{1673}\sqrt{1045}e^3 \otimes e_9$	{12348, 156789, 259, 3467}
9521:5	$0, 0, 0, 0, \frac{1}{1565}\sqrt{886418}e^{12}, \frac{91}{1565}\sqrt{206}e^{13}, \frac{1}{1565}\sqrt{40170}e^{14},$ $\frac{4}{1565}\sqrt{232986}e^{25}, \frac{4}{1565}\sqrt{105781}e^{28}$	$(-\frac{6}{313}, -\frac{127}{1565}, \frac{928}{1565}, \frac{276}{1565}, -\frac{157}{1565}, \frac{898}{1565}, \frac{246}{1565}, -\frac{284}{1565}, -\frac{411}{1565})$ $+\frac{4}{1565}\sqrt{218257}e^3 \otimes e_9$	{1245679, 12569, 13, 1347, 23468, 23678, 4589, 5789}
9521:5	$0, 0, 0, 0, \frac{3}{89}\sqrt{109}e^{12}, \frac{1}{356}\sqrt{23326}e^{13}, \frac{1}{356}\sqrt{23326}e^{14}, \frac{1}{356}\sqrt{2398}e^{25},$ $\frac{1}{356}\sqrt{7630}e^{28}$	$(-\frac{109}{356}, \frac{59}{356}, \frac{175}{712}, \frac{175}{712}, -\frac{25}{178}, -\frac{43}{712}, -\frac{43}{712}, \frac{9}{356}, \frac{17}{89})$ $+\frac{1}{356}\sqrt{35207}e^3 \otimes e_7 - \frac{1}{356}\sqrt{35207}e^4 \otimes e_6$	{123459, 125679, 134, 167, 2368, 35689}
9521:5	$0, 0, 0, 0, \frac{18}{4181}\sqrt{3345}e^{12}, \frac{90}{4181}\sqrt{669}e^{13}, \frac{2}{4181}\sqrt{326695}e^{14},$ $\frac{4}{4181}\sqrt{43485}e^{25}, \frac{10}{4181}\sqrt{3345}e^{28}$	$(\frac{561}{4181}, -\frac{6}{4181}, \frac{1122}{4181}, -\frac{1669}{4181}, \frac{15}{113}, \frac{1683}{4181}, -\frac{1108}{4181}, \frac{549}{4181}, \frac{543}{4181})$ $+\frac{2}{4181}\sqrt{2083935}e^3 \otimes e_7 + \frac{4}{4181}\sqrt{514015}e^1 \otimes e_4$	{12678, 156789, 24579, 47}
9521:5	$0, 0, 0, 0, \frac{9}{26}e^{12}, \frac{9}{26}\sqrt{3}e^{13}, \frac{9}{26}\sqrt{3}e^{14}, \frac{9}{104}\sqrt{13}e^{25}, \frac{9}{13}e^{28}$	$(\frac{6}{13}, -\frac{27}{104}, -\frac{9}{208}, -\frac{9}{208}, \frac{21}{104}, \frac{87}{208}, \frac{87}{208}, -\frac{3}{52}, -\frac{33}{104})$ $+\frac{9}{8}e^1 \otimes e_9$	{12348, 12378, 12678, 2345679, 23569, 259}
9521:5	$0, 0, 0, 0, \frac{138}{395}\sqrt{3}e^{12}, \frac{12}{395}\sqrt{667}e^{13}, \frac{12}{395}\sqrt{667}e^{14}, \frac{12}{395}\sqrt{138}e^{25},$ $\frac{6}{395}\sqrt{1081}e^{28}$	$(-\frac{91}{395}, \frac{14}{79}, \frac{279}{395}, -\frac{44}{395}, -\frac{21}{395}, \frac{188}{395}, -\frac{27}{79}, \frac{49}{395}, \frac{119}{395})$ $+\frac{6}{395}\sqrt{7429}e^3 \otimes e_7$	{123459, 125679, 134, 167, 2368, 2478, 35689, 45789}
9521:5	$0, 0, 0, 0, \frac{66}{3889}\sqrt{85}e^{12}, \frac{440}{3889}\sqrt{15}e^{13}, \frac{44}{3889}\sqrt{170}e^{14},$ $\frac{44}{3889}\sqrt{1090}e^{25}, \frac{22}{3889}\sqrt{4105}e^{28}$	$(-\frac{1001}{3889}, \frac{770}{3889}, \frac{561}{3889}, \frac{352}{3889}, -\frac{231}{3889}, -\frac{440}{3889}, \frac{649}{3889}, \frac{539}{3889}, \frac{1309}{3889})$ $+\frac{22}{3889}\sqrt{6365}e^3 \otimes e_7 + \frac{88}{3889}\sqrt{665}e^2 \otimes e_6$	{12348, 156789, 24579, 36}
9521:5	$0, 0, 0, 0, \frac{6}{1249}\sqrt{830}e^{12}, \frac{9}{1249}\sqrt{770}e^{13}, \frac{3}{1249}\sqrt{870}e^{14}, \frac{3}{1249}\sqrt{4970}e^{25},$ $\frac{114}{1249}\sqrt{5}e^{28}$	$(\frac{87}{1249}, -\frac{30}{1249}, -\frac{207}{1249}, \frac{96}{1249}, \frac{57}{1249}, -\frac{120}{1249}, \frac{183}{1249}, \frac{27}{1249}, -\frac{3}{1249})$ $+\frac{3}{1249}\sqrt{10070}e^1 \otimes e_9 + \frac{6}{1249}\sqrt{3030}e^2 \otimes e_6$	{12348, 12378, 24579, 259}
9521:5	$0, 0, 0, 0, \frac{2}{4749}\sqrt{832711}e^{12}, \frac{2}{4749}\sqrt{466543}e^{13}, \frac{2}{4749}\sqrt{1393205}e^{14},$ $\frac{8}{4749}\sqrt{8030}e^{25}, \frac{10}{4749}\sqrt{40953}e^{28}$	$(-\frac{799}{4749}, \frac{82}{4749}, \frac{620}{1583}, \frac{351}{1583}, -\frac{239}{1583}, \frac{1061}{4749}, \frac{254}{4749}, -\frac{635}{4749}, -\frac{553}{4749})$ $+\frac{2}{4749}\sqrt{1574683}e^3 \otimes e_7 + \frac{4}{4749}\sqrt{463331}e^4 \otimes e_9$	{125679, 134, 2478, 35689}
9521:5	$0, 0, 0, 0, \frac{12}{3403}\sqrt{13345}e^{12}, \frac{8}{3403}\sqrt{19939}e^{13}, \frac{4}{3403}\sqrt{10833}e^{14},$ $\frac{4}{3403}\sqrt{123402}e^{25}, \frac{12}{3403}\sqrt{9263}e^{28}$	$(\frac{138}{3403}, \frac{276}{3403}, \frac{1118}{3403}, \frac{366}{3403}, \frac{414}{3403}, -\frac{980}{3403}, \frac{504}{3403}, \frac{690}{3403}, \frac{966}{3403})$ $+\frac{4}{3403}\sqrt{164065}e^1 \otimes e_3 + \frac{4}{3403}\sqrt{301911}e^2 \otimes e_6$	{145689, 156789, 3467, 36}
9521:5	$0, 0, 0, 0, \frac{84}{4777}\sqrt{282}e^{12}, \frac{42}{4777}\sqrt{695}e^{13}, \frac{84}{4777}\sqrt{362}e^{14},$ $\frac{84}{4777}\sqrt{254}e^{25}, \frac{336}{4777}\sqrt{10}e^{28}$	$(\frac{339}{4777}, \frac{264}{4777}, -\frac{543}{4777}, -\frac{957}{4777}, \frac{603}{4777}, -\frac{12}{281}, -\frac{618}{4777}, \frac{51}{281}, \frac{1131}{4777})$ $+\frac{42}{4777}\sqrt{1729}e^1 \otimes e_3 + \frac{42}{4777}\sqrt{2557}e^2 \otimes e_7$	{1248, 15789, 2359, 347}
9521:5	$0, 0, 0, 0, \frac{3}{1529}\sqrt{168402}e^{12}, \frac{52}{1529}\sqrt{254}e^{13}, \frac{2}{1529}\sqrt{351663}e^{14},$ $\frac{1}{1529}\sqrt{287274}e^{25}, \frac{2}{1529}\sqrt{54483}e^{28}$	$(\frac{852}{1529}, -\frac{219}{1529}, -\frac{799}{1529}, -\frac{15}{1529}, \frac{633}{139}, \frac{53}{1529}, \frac{687}{1529}, \frac{414}{1529}, \frac{195}{1529})$ $+\frac{2}{1529}\sqrt{1046734}e^1 \otimes e_3$	{12489, 12789, 1458, 1578, 23457, 235, 3479, 39}
9521:5	$0, 0, 0, 0, \frac{7}{87}\sqrt{30}e^{12}, \frac{7}{29}\sqrt{6}e^{13}, \frac{7}{29}\sqrt{2}e^{14}, \frac{7}{87}\sqrt{58}e^{25},$ $\frac{28}{87}\sqrt{3}e^{28}$	$(-\frac{6}{29}, \frac{19}{87}, -\frac{4}{29}, \frac{8}{29}, \frac{1}{87}, -\frac{10}{29}, \frac{2}{29}, \frac{20}{87}, \frac{13}{29})$ $+\frac{28}{29}e^2 \otimes e_6$	{123478, 1238, 1456789, 15689, 2459, 2579, 346, 367}
9521:5	$0, 0, 0, 0, \frac{2}{4085}\sqrt{53863}e^{12}, \frac{2}{4085}\sqrt{1291829}e^{13}, \frac{2}{4085}\sqrt{322295}e^{14},$ $\frac{2}{4085}\sqrt{126269}e^{25}, \frac{2}{4085}\sqrt{700219}e^{28}$	$(\frac{183}{817}, -\frac{568}{4085}, \frac{977}{4085}, -\frac{851}{4085}, \frac{347}{4085}, \frac{44}{95}, \frac{64}{4085}, -\frac{221}{4085}, -\frac{789}{4085})$ $+\frac{2}{4085}\sqrt{1452535}e^1 \otimes e_4 + \frac{2}{4085}\sqrt{1775713}e^3 \otimes e_9$	{1238, 15689, 2459, 346}
9521:6	$0, 0, 0, 0, \frac{18}{679}\sqrt{597}e^{12}, \frac{2}{679}\sqrt{43979}e^{13}, \frac{8}{679}\sqrt{597}e^{24}, \frac{20}{679}\sqrt{597}e^{15},$ $\frac{2}{679}\sqrt{43581}e^{18}$	$(\frac{138}{679}, -\frac{96}{679}, -\frac{260}{679}, \frac{21}{97}, \frac{6}{97}, -\frac{122}{679}, \frac{51}{679}, \frac{180}{679}, \frac{318}{679})$ $+\frac{4}{679}\sqrt{28855}e^1 \otimes e_3$	{12478, 128, 1459, 1579, 2345789, 23589, 34, 37}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:6	$0, 0, 0, 0, \frac{46}{3625} \sqrt{878}e^{12}, \frac{138}{3625} \sqrt{87}e^{13}, \frac{46}{3625} \sqrt{1501}e^{24}, \frac{46}{725} \sqrt{6}e^{15},$ $\frac{46}{3625} \sqrt{683}e^{18}$	$(-\frac{21}{725}, -\frac{2}{25}, \frac{1221}{3625}, \frac{453}{3625}, -\frac{79}{725}, \frac{1116}{3625}, \frac{163}{3625}, -\frac{4}{29}, -\frac{121}{725})$ $+\frac{46}{3625} \sqrt{1621}e^4 \otimes e_9 + \frac{46}{3625} \sqrt{1671}e^3 \otimes e_7$	{123458, 139, 2789, 457}
9521:6	$0, 0, 0, 0, \frac{3}{1307} \sqrt{193402}e^{12}, \frac{4}{1307} \sqrt{24585}e^{13}, \frac{1}{1307} \sqrt{337634}e^{24},$ $\frac{2}{1307} \sqrt{93423}e^{15}, \frac{3}{1307} \sqrt{22946}e^{18}$	$(-\frac{240}{1307}, \frac{879}{1307}, \frac{342}{1307}, -\frac{760}{1307}, \frac{639}{1307}, \frac{102}{1307}, \frac{119}{1307}, \frac{399}{1307}, \frac{159}{1307})$ $+\frac{1}{1307} \sqrt{3556630}e^2 \otimes e_4$	{123689, 1289, 13456, 145, 2358, 2568, 349, 469}
9521:6	$0, 0, 0, 0, \frac{3}{383} \sqrt{455}e^{12}, \frac{3}{766} \sqrt{8610}e^{13}, \frac{6}{383} \sqrt{1155}e^{24}, \frac{15}{766} \sqrt{35}e^{15},$ $\frac{3}{383} \sqrt{1855}e^{18}$	$(-\frac{105}{766}, \frac{177}{766}, \frac{627}{1532}, -\frac{357}{1532}, \frac{36}{383}, \frac{417}{1532}, -\frac{3}{1532}, -\frac{33}{766}, -\frac{69}{383})$ $+\frac{3}{766} \sqrt{23065}e^2 \otimes e_9 + \frac{9}{766} \sqrt{2730}e^3 \otimes e_7$	{123458, 125678, 139, 14679}
9521:6	$0, 0, 0, 0, \frac{6}{4597} \sqrt{12787}e^{12}, \frac{114}{4597} \sqrt{3}e^{13}, \frac{12}{4597} \sqrt{6213}e^{24},$ $\frac{6}{4597} \sqrt{17917}e^{15}, \frac{6}{4597} \sqrt{25213}e^{18}$	$(-\frac{114}{4597}, \frac{348}{4597}, \frac{561}{4597}, -\frac{804}{4597}, \frac{234}{4597}, \frac{447}{4597}, -\frac{456}{4597}, \frac{120}{4597}, \frac{6}{4597})$ $+\frac{108}{4597} \sqrt{133}e^1 \otimes e_7 + \frac{30}{4597} \sqrt{1387}e^2 \otimes e_9$	{123468, 1248, 13569, 159}
9521:6	$0, 0, 0, 0, \frac{3}{1721} \sqrt{51742}e^{12}, \frac{1}{1721} \sqrt{87078}e^{13}, \frac{2}{1721} \sqrt{89602}e^{24},$ $\frac{16}{1721} \sqrt{1893}e^{15}, \frac{3}{1721} \sqrt{36598}e^{18}$	$(\frac{138}{1721}, \frac{69}{1721}, \frac{153}{1721}, -\frac{562}{1721}, \frac{207}{1721}, \frac{291}{1721}, -\frac{493}{1721}, \frac{345}{1721}, \frac{483}{1721})$ $+\frac{10}{1721} \sqrt{6310}e^2 \otimes e_4 + \frac{3}{1721} \sqrt{140082}e^1 \otimes e_7$	{2356789, 25789, 3467, 47}
9521:6	$0, 0, 0, 0, \frac{29}{1809} \sqrt{66}e^{12}, \frac{1}{1809} \sqrt{311982}e^{13}, \frac{4}{1809} \sqrt{25201}e^{24},$ $\frac{20}{1809} \sqrt{319}e^{15}, \frac{1}{1809} \sqrt{146102}e^{18}$	$(\frac{86}{603}, -\frac{347}{1809}, -\frac{97}{603}, \frac{286}{1809}, -\frac{89}{1809}, -\frac{11}{603}, -\frac{61}{1809}, \frac{169}{1809}, \frac{427}{1809})$ $+\frac{11}{201} \sqrt{58}e^1 \otimes e_7 + \frac{4}{603} \sqrt{3190}e^4 \otimes e_6$	{123459, 168, 2367, 45789}
9521:6	$0, 0, 0, 0, \frac{6}{353} \sqrt{1105}e^{12}, \frac{102}{353} \sqrt{3}e^{13}, \frac{24}{353} \sqrt{102}e^{24}, \frac{6}{353} \sqrt{646}e^{15},$ $\frac{6}{353} \sqrt{1921}e^{18}$	$(-\frac{102}{353}, \frac{192}{353}, \frac{114}{353}, -\frac{33}{353}, \frac{90}{353}, \frac{12}{353}, \frac{159}{353}, -\frac{12}{353}, -\frac{114}{353})$ $+\frac{6}{353} \sqrt{4930}e^2 \otimes e_9$	{123468, 123678, 1248, 1278, 1345679, 13569, 14579, 159}
9521:6	$0, 0, 0, 0, \frac{101}{1323} \sqrt{66}e^{12}, \frac{1}{1323} \sqrt{1326534}e^{13}, \frac{2}{1323} \sqrt{301081}e^{24},$ $\frac{1}{1323} \sqrt{295526}e^{15}, \frac{8}{1323} \sqrt{1111}e^{18}$	$(\frac{23}{441}, -\frac{41}{1323}, \frac{242}{441}, -\frac{344}{1323}, \frac{4}{189}, \frac{265}{441}, -\frac{55}{189}, \frac{97}{1323}, \frac{166}{1323})$ $+\frac{5}{441} \sqrt{11110}e^3 \otimes e_7$	{1234589, 1256789, 13, 1467, 23468, 278, 3569, 4579}
9521:6	$0, 0, 0, 0, \frac{68}{4113} \sqrt{141}e^{12}, \frac{34}{4113} \sqrt{885}e^{13}, \frac{442}{4113} \sqrt{7}e^{24},$ $\frac{34}{4113} \sqrt{541}e^{15}, \frac{34}{4113} \sqrt{353}e^{18}$	$(\frac{55}{1371}, \frac{314}{4113}, -\frac{143}{1371}, \frac{727}{4113}, \frac{479}{4113}, -\frac{88}{1371}, \frac{413}{4113}, \frac{644}{4113}, \frac{809}{4113})$ $+\frac{34}{4113} \sqrt{1605}e^2 \otimes e_6 + \frac{68}{1371} \sqrt{57}e^1 \otimes e_7$	{12348, 1569, 25789, 3467}
9521:6	$0, 0, 0, 0, \frac{2}{3937} \sqrt{25355}e^{12}, \frac{4}{3937} \sqrt{89434}e^{13}, \frac{2}{3937} \sqrt{400609}e^{24},$ $\frac{8}{3937} \sqrt{17057}e^{15}, \frac{8}{3937} \sqrt{30887}e^{18}$	$(\frac{167}{3937}, -\frac{350}{3937}, \frac{1073}{3937}, -\frac{405}{3937}, -\frac{183}{3937}, \frac{40}{127}, -\frac{755}{3937}, -\frac{16}{3937}, \frac{151}{3937})$ $+\frac{12}{3937} \sqrt{26738}e^1 \otimes e_7 + \frac{2}{3937} \sqrt{638485}e^3 \otimes e_9$	{124569, 138, 2367, 45789}
9521:6	$0, 0, 0, 0, \frac{2}{169} \sqrt{2759}e^{12}, \frac{2}{169} \sqrt{4717}e^{13}, \frac{4}{169} \sqrt{445}e^{24}, \frac{4}{169} \sqrt{178}e^{15},$ $\frac{14}{169} \sqrt{89}e^{18}$	$(-\frac{34}{169}, \frac{40}{169}, \frac{116}{169}, \frac{9}{169}, \frac{6}{169}, \frac{82}{169}, \frac{49}{169}, -\frac{28}{169}, -\frac{62}{169})$ $+\frac{4}{169} \sqrt{3115}e^3 \otimes e_9$	{123458, 123578, 14679, 169, 2489, 2789, 34567, 356}
9521:6	$0, 0, 0, 0, \frac{4}{1373} \sqrt{40985}e^{12}, \frac{1}{1373} \sqrt{119442}e^{13}, \frac{1}{1373} \sqrt{1290442}e^{24},$ $\frac{1}{1373} \sqrt{217806}e^{15}, \frac{4}{1373} \sqrt{83141}e^{18}$	$(-\frac{102}{1373}, -\frac{43}{1373}, \frac{279}{1373}, \frac{822}{1373}, -\frac{145}{1373}, \frac{177}{1373}, \frac{779}{1373}, -\frac{247}{1373}, -\frac{349}{1373})$ $+\frac{1}{1373} \sqrt{2681590}e^4 \otimes e_9$	{1235679, 12579, 134678, 1478, 234, 246, 3589, 5689}
9521:6	$0, 0, 0, 0, \frac{70}{4329} \sqrt{66}e^{12}, \frac{2}{4329} \sqrt{701085}e^{13}, \frac{2}{4329} \sqrt{582505}e^{24},$ $\frac{14}{4329} \sqrt{3905}e^{15}, \frac{14}{4329} \sqrt{3355}e^{18}$	$(-\frac{119}{1443}, \frac{974}{4329}, \frac{187}{1443}, -\frac{91}{333}, \frac{617}{4329}, \frac{68}{1443}, -\frac{209}{4329}, \frac{20}{333}, -\frac{97}{4329})$ $+\frac{22}{4329} \sqrt{6195}e^2 \otimes e_6 + \frac{4}{1443} \sqrt{21945}e^3 \otimes e_7$	{1234589, 1467, 278, 3569}
9521:6	$0, 0, 0, 0, \frac{14}{229} e^{12}, \frac{14}{229} \sqrt{78}e^{13}, \frac{42}{229} \sqrt{5}e^{24}, \frac{42}{229} \sqrt{2}e^{15},$ $\frac{14}{229} \sqrt{14}e^{18}$	$(-\frac{49}{229}, \frac{90}{229}, \frac{41}{229}, -\frac{21}{229}, \frac{41}{229}, -\frac{8}{229}, \frac{69}{229}, -\frac{8}{229}, -\frac{57}{229})$ $+\frac{14}{229} \sqrt{110}e^2 \otimes e_6 + \frac{14}{229} \sqrt{95}e^3 \otimes e_9$	{123458, 123578, 14679, 169, 2489, 2789, 34567, 356}
9521:6	$0, 0, 0, 0, \frac{14}{229} e^{12}, \frac{14}{229} \sqrt{78}e^{13}, \frac{42}{229} \sqrt{5}e^{24}, \frac{42}{229} \sqrt{2}e^{15},$ $\frac{14}{229} \sqrt{14}e^{18}$	$(-\frac{49}{229}, \frac{90}{229}, \frac{41}{229}, -\frac{21}{229}, \frac{41}{229}, -\frac{8}{229}, \frac{69}{229}, -\frac{8}{229}, -\frac{57}{229})$ $+\frac{14}{229} \sqrt{110}e^2 \otimes e_6 - \frac{14}{229} \sqrt{95}e^3 \otimes e_9$	{123458, 123578, 14679, 169, 2489, 2789, 34567, 356}
9521:6	$0, 0, 0, 0, \frac{4}{1501} \sqrt{8866}e^{12}, \frac{1}{1501} \sqrt{266786}e^{13}, \frac{1}{1501} \sqrt{147498}e^{24},$ $\frac{1}{1501} \sqrt{339326}e^{15}, \frac{4}{1501} \sqrt{27807}e^{18}$	$(\frac{6}{79}, -\frac{203}{1501}, -\frac{289}{1501}, \frac{542}{1501}, -\frac{89}{1501}, -\frac{175}{1501}, \frac{339}{1501}, \frac{25}{1501}, \frac{139}{1501})$ $+\frac{1}{1501} \sqrt{458614}e^4 \otimes e_9 + \frac{4}{1501} \sqrt{39091}e^1 \otimes e_3$	{1248, 159, 235789, 347}
9521:6	$0, 0, 0, 0, \frac{30}{4081} \sqrt{1201}e^{12}, \frac{30}{4081} \sqrt{1119}e^{13}, \frac{60}{4081} \sqrt{66}e^{24},$ $\frac{60}{4081} \sqrt{298}e^{15}, \frac{30}{4081} \sqrt{1333}e^{18}$	$(-\frac{150}{4081}, \frac{48}{371}, -\frac{600}{4081}, \frac{15}{583}, \frac{54}{583}, -\frac{750}{4081}, \frac{633}{4081}, \frac{228}{4081}, \frac{78}{4081})$ $+\frac{180}{4081} \sqrt{58}e^1 \otimes e_3 + \frac{60}{4081} \sqrt{406}e^2 \otimes e_9$	{1248, 1278, 14579, 159}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:6	$0, 0, 0, 0, \frac{3}{383}\sqrt{455e^{12}}, \frac{3}{766}\sqrt{8610e^{13}}, \frac{6}{383}\sqrt{1155e^{24}}, \frac{15}{766}\sqrt{35e^{15}},$ $\frac{3}{383}\sqrt{1855e^{18}}$	$(-\frac{105}{766}, \frac{177}{766}, -\frac{75}{1532}, \frac{345}{1532}, \frac{36}{383}, -\frac{285}{1532}, \frac{699}{1532}, -\frac{33}{766}, -\frac{69}{383})$ $+\frac{3}{766}\sqrt{23065e^2} \otimes e_9 + \frac{9}{766}\sqrt{2730e^4} \otimes e_6$	{123458, 125678, 13479, 169}
9521:6	$0, 0, 0, 0, \frac{24}{1039}\sqrt{385e^{12}}, \frac{40}{1039}\sqrt{77e^{13}}, \frac{8}{1039}\sqrt{1155e^{24}},$ $\frac{12}{1039}\sqrt{2310e^{15}}, \frac{28}{1039}\sqrt{330e^{18}}$	$(\frac{165}{1039}, -\frac{126}{1039}, -\frac{395}{1039}, \frac{330}{1039}, \frac{39}{1039}, -\frac{230}{1039}, \frac{204}{1039}, \frac{204}{1039}, \frac{369}{1039})$ $+\frac{4}{1039}\sqrt{45010e^1} \otimes e_3 + \frac{8}{1039}\sqrt{4515e^4} \otimes e_6$	{1248, 14579, 234589, 347}
9521:6	$0, 0, 0, 0, \frac{1}{373}\sqrt{15370e^{12}}, \frac{10}{373}\sqrt{265e^{13}}, \frac{5}{373}\sqrt{106e^{24}}, \frac{2}{373}\sqrt{265e^{15}},$ $\frac{3}{373}\sqrt{530e^{18}}$	$(-\frac{82}{373}, \frac{157}{373}, \frac{176}{373}, -\frac{108}{373}, \frac{75}{373}, \frac{94}{373}, \frac{49}{373}, -\frac{7}{373}, -\frac{89}{373})$ $+\frac{2}{373}\sqrt{24115e^3} \otimes e_9 + \frac{7}{373}\sqrt{1590e^2} \otimes e_4$	{12679, 134578, 23567, 4789}
9521:6	$0, 0, 0, 0, \frac{1}{297}\sqrt{11022e^{12}}, \frac{1}{297}\sqrt{11022e^{13}}, \frac{4}{297}\sqrt{1837e^{24}}, \frac{4}{297}\sqrt{1837e^{15}},$ $\frac{1}{297}\sqrt{25718e^{18}}$	$(\frac{2}{9}, -\frac{67}{297}, \frac{7}{99}, -\frac{34}{297}, -\frac{1}{297}, \frac{29}{99}, -\frac{101}{297}, \frac{65}{297}, \frac{131}{297})$ $+\frac{1}{33}\sqrt{1002e^1} \otimes e_7$	{12348, 12468, 1359, 1569, 2356789, 25789, 3467, 47}
9521:6	$0, 0, 0, 0, \frac{1}{503}\sqrt{37366e^{12}}, \frac{1}{503}\sqrt{65155e^{13}}, \frac{5}{503}\sqrt{1727e^{24}},$ $\frac{1}{503}\sqrt{17270e^{15}}, \frac{1}{503}\sqrt{17113e^{18}}$	$(-\frac{91}{1006}, \frac{24}{503}, \frac{89}{1006}, \frac{156}{503}, -\frac{43}{1006}, -\frac{1}{503}, \frac{180}{503}, -\frac{67}{503}, -\frac{225}{1006})$ $+\frac{1}{503}\sqrt{65783e^3} \otimes e_9 + \frac{1}{503}\sqrt{78814e^4} \otimes e_6$	{123458, 169, 2489, 356}
9521:6	$0, 0, 0, 0, \frac{42}{3193}\sqrt{146e^{12}}, \frac{6}{3193}\sqrt{34237e^{13}}, \frac{6}{3193}\sqrt{80081e^{24}},$ $\frac{6}{3193}\sqrt{2701e^{15}}, \frac{18}{3193}\sqrt{3869e^{18}}$	$(-\frac{453}{3193}, \frac{750}{3193}, -\frac{111}{3193}, \frac{705}{3193}, \frac{297}{3193}, -\frac{564}{3193}, \frac{1455}{3193}, -\frac{156}{3193}, -\frac{609}{3193})$ $+\frac{228}{3193}\sqrt{73e^4} \otimes e_9 + \frac{6}{3193}\sqrt{101543e^2} \otimes e_6$	{123458, 169, 2789, 34567}
9521:6	$0, 0, 0, 0, \frac{1}{594}\sqrt{6519e^{12}}, \frac{1}{594}\sqrt{11931e^{13}}, \frac{1}{594}\sqrt{10291e^{24}},$ $\frac{1}{1188}\sqrt{14186e^{15}}, \frac{1}{1188}\sqrt{5494e^{18}}$	$(\frac{13}{396}, -\frac{11}{108}, \frac{29}{792}, \frac{247}{2376}, -\frac{41}{594}, \frac{5}{72}, \frac{5}{2376}, -\frac{43}{1188}, -\frac{1}{297})$ $+\frac{5}{396}\sqrt{205e^3} \otimes e_7 + \frac{5}{396}\sqrt{205e^4} \otimes e_6$	{1234589, 1256789, 3569, 4579}
9521:6	$0, 0, 0, 0, \frac{101}{1323}\sqrt{66e^{12}}, \frac{1}{1323}\sqrt{1326534e^{13}}, \frac{2}{1323}\sqrt{301081e^{24}},$ $\frac{1}{1323}\sqrt{295526e^{15}}, \frac{8}{1323}\sqrt{1111e^{18}}$	$(\frac{23}{441}, -\frac{41}{1323}, -\frac{19}{63}, \frac{781}{1323}, \frac{4}{189}, -\frac{110}{441}, \frac{740}{1323}, \frac{97}{1323}, \frac{166}{1323})$ $+\frac{5}{441}\sqrt{11110e^4} \otimes e_6$	{1234589, 1256789, 1347, 16, 23678, 248, 3569, 4579}
9521:6	$0, 0, 0, 0, \frac{2}{9}\sqrt{6e^{12}}, \frac{4}{9}\sqrt{3e^{13}}, \frac{2}{9}\sqrt{10e^{24}}, \frac{2}{9}\sqrt{2e^{15}}, \frac{4}{9}e^{18}$	$(-\frac{1}{6}, \frac{5}{9}, -\frac{1}{6}, -\frac{1}{9}, \frac{7}{18}, -\frac{1}{3}, \frac{4}{9}, \frac{2}{9}, \frac{1}{18})$ $+\frac{2}{9}\sqrt{30e^2} \otimes e_6$	{1234, 1237, 1456789, 15689, 2459, 2579, 34678, 368}
9521:6	$0, 0, 0, 0, \frac{8}{3839}\sqrt{49530e^{12}}, \frac{8}{3839}\sqrt{33215e^{13}}, \frac{24}{3839}\sqrt{1430e^{24}},$ $\frac{4}{3839}\sqrt{155090e^{15}}, \frac{20}{3839}\sqrt{3562e^{18}}$	$(\frac{177}{3839}, \frac{490}{3839}, -\frac{863}{3839}, -\frac{50}{349}, \frac{667}{3839}, -\frac{686}{3839}, -\frac{60}{3839}, \frac{844}{3839}, \frac{1021}{3839})$ $+\frac{4}{3839}\sqrt{288730e^1} \otimes e_3 + \frac{8}{3839}\sqrt{41665e^2} \otimes e_4$	{128, 1459, 23589, 34}
9521:6	$0, 0, 0, 0, \frac{18}{139}\sqrt{14e^{12}}, \frac{4}{139}\sqrt{77e^{13}}, \frac{2}{139}\sqrt{210e^{24}}, \frac{2}{139}\sqrt{966e^{15}},$ $\frac{28}{139}\sqrt{3e^{18}}$	$(\frac{15}{278}, \frac{15}{139}, -\frac{97}{278}, \frac{9}{139}, \frac{45}{278}, -\frac{41}{139}, \frac{24}{139}, \frac{30}{139}, \frac{75}{278})$ $+\frac{2}{139}\sqrt{1302e^2} \otimes e_6 + \frac{8}{139}\sqrt{133e^1} \otimes e_3$	{1248, 1278, 234589, 235789}
9521:7	$0, 0, 0, 0, \frac{1}{1529}\sqrt{600198e^{12}}, \frac{4}{1529}\sqrt{46722e^{34}},$ $\frac{1}{1529}\sqrt{94642e^{13}} + \frac{4}{1529}\sqrt{19767e^{24}}, \frac{4}{1529}\sqrt{40133e^{15}}, \frac{3}{1529}\sqrt{49118e^{18}}$	$(\frac{202}{1529}, \frac{17}{1529}, -\frac{291}{1529}, -\frac{106}{1529}, \frac{219}{1529}, -\frac{397}{1529}, -\frac{89}{1529}, \frac{421}{1529}, \frac{623}{1529})$ $+\frac{5}{1529}\sqrt{61098e^1} \otimes e_6$	{123478, 128, 235689, 2456789}
9521:7	$0, 0, 0, 0, \frac{102}{2957}\sqrt{238e^{12}}, \frac{12}{2957}\sqrt{3927e^{34}},$ $\frac{6}{2957}\sqrt{113883e^{13}} + \frac{12}{2957}\sqrt{31773e^{24}}, \frac{12}{2957}\sqrt{14518e^{15}}, \frac{12}{2957}\sqrt{33082e^{18}}$	$(-\frac{714}{2957}, \frac{1311}{2957}, \frac{1332}{2957}, -\frac{693}{2957}, \frac{597}{2957}, \frac{639}{2957}, \frac{618}{2957}, -\frac{117}{2957}, -\frac{831}{2957})$ $+\frac{210}{2957}\sqrt{238e^2} \otimes e_9$	{123678, 12468, 134579, 159}
9521:7	$0, 0, 0, 0, \frac{1}{493}\sqrt{2686e^{12}}, \frac{1}{493}\sqrt{6154e^{34}}, \frac{2}{493}\sqrt{255e^{13}} + \frac{4}{493}\sqrt{170e^{24}},$ $\frac{1}{493}\sqrt{3230e^{15}}, \frac{16}{493}\sqrt{17e^{18}}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{2}{29}, -\frac{2}{29}, 0, \frac{1}{29}, 0)$ $+\frac{1}{493}\sqrt{9010e^1} \otimes e_6 + \frac{2}{493}\sqrt{1513e^3} \otimes e_9$	{1579, 367}
9521:7	$0, 0, 0, 0, \frac{3}{391}\sqrt{86e^{12}}, \frac{6}{391}\sqrt{73e^{34}}, \frac{27}{391}\sqrt{2e^{13}} + \frac{6}{391}\sqrt{17e^{24}},$ $\frac{6}{391}\sqrt{51e^{15}}, \frac{3}{391}\sqrt{286e^{18}}$	$(\frac{18}{391}, -\frac{33}{391}, -\frac{21}{391}, \frac{30}{391}, -\frac{15}{391}, \frac{9}{391}, -\frac{3}{391}, \frac{3}{391}, \frac{21}{391})$ $+\frac{3}{391}\sqrt{362e^1} \otimes e_6 + \frac{6}{391}\sqrt{83e^4} \otimes e_9$	{159, 467}
9521:7	$0, 0, 0, 0, \frac{12}{571}\sqrt{322e^{12}}, \frac{156}{571}\sqrt{7e^{34}}, \frac{12}{571}\sqrt{770e^{13}} + \frac{12}{571}\sqrt{322e^{24}},$ $\frac{12}{571}\sqrt{35e^{15}}, \frac{156}{571}\sqrt{7e^{18}}$	$(-\frac{133}{571}, \frac{187}{571}, \frac{292}{571}, -\frac{28}{571}, \frac{54}{571}, \frac{264}{571}, \frac{159}{571}, -\frac{79}{571}, -\frac{212}{571})$ $+\frac{168}{571}\sqrt{17e^3} \otimes e_9$	{123568, 179, 289, 3567}
9521:7	$0, 0, 0, 0, \frac{44}{183}\sqrt{2e^{12}}, \frac{8}{183}\sqrt{165e^{34}}, \frac{8}{183}\sqrt{187e^{13}} + \frac{4}{183}\sqrt{781e^{24}},$ $\frac{16}{183}\sqrt{22e^{15}}, \frac{4}{183}\sqrt{1001e^{18}}$	$(-\frac{5}{183}, -\frac{7}{61}, \frac{12}{61}, \frac{52}{183}, -\frac{26}{183}, \frac{88}{183}, \frac{31}{183}, -\frac{31}{183}, -\frac{12}{61})$ $+\frac{4}{183}\sqrt{1705e^4} \otimes e_9$	{1235679, 13478, 234, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:7	$0, 0, 0, 0, \frac{12}{2957}\sqrt{31773}e^{12}, \frac{12}{2957}\sqrt{33082}e^{34},$ $\frac{6}{2957}\sqrt{113883}e^{13} + \frac{102}{2957}\sqrt{238}e^{24}, \frac{12}{2957}\sqrt{14518}e^{15}, \frac{12}{2957}\sqrt{3927}e^{18}$	$(-\frac{224}{2957}, \frac{1311}{2957}, \frac{352}{2957}, -\frac{1183}{2957}, \frac{1087}{2957}, -\frac{831}{2957}, \frac{128}{2957}, \frac{863}{2957}, \frac{639}{2957})$ $+\frac{210}{2957}\sqrt{238}e^2 \otimes e_6$	{234589, 25789, 36, 467}
9521:7	$0, 0, 0, 0, \frac{27}{6709}\sqrt{3722}e^{12}, \frac{81}{6709}\sqrt{382}e^{34},$ $\frac{108}{6709}\sqrt{138}e^{13} + \frac{54}{6709}\sqrt{123}e^{24}, \frac{27}{6709}\sqrt{3602}e^{15}, \frac{216}{6709}\sqrt{62}e^{18}$	$(-\frac{243}{6709}, \frac{1107}{6709}, \frac{189}{6709}, -\frac{1161}{6709}, \frac{864}{6709}, -\frac{972}{6709}, -\frac{54}{6709}, \frac{621}{6709}, \frac{378}{6709})$ $+\frac{27}{6709}\sqrt{6990}e^1 \otimes e_6 + \frac{54}{6709}\sqrt{1205}e^2 \otimes e_9$	{134579, 159}
9521:7	$0, 0, 0, 0, \frac{7}{867}\sqrt{1918}e^{12}, \frac{28}{867}\sqrt{259}e^{34}, \frac{35}{867}\sqrt{42}e^{13} + \frac{14}{289}\sqrt{21}e^{24},$ $\frac{14}{867}\sqrt{210}e^{15}, \frac{14}{867}\sqrt{455}e^{18}$	$(-\frac{49}{289}, \frac{329}{867}, \frac{77}{289}, -\frac{245}{867}, \frac{182}{867}, -\frac{14}{867}, \frac{28}{289}, \frac{35}{867}, -\frac{112}{867})$ $+\frac{7}{867}\sqrt{4858}e^3 \otimes e_9 + \frac{7}{867}\sqrt{5810}e^2 \otimes e_6$	{25789, 36}
9521:7	$0, 0, 0, 0, \frac{5}{493}\sqrt{86}e^{12}, \frac{5}{986}\sqrt{1390}e^{34}, \frac{95}{493}e^{13} + \frac{5}{986}\sqrt{1218}e^{24},$ $\frac{5}{986}\sqrt{610}e^{15}, \frac{5}{29}e^{18}$	$(-\frac{35}{493}, \frac{50}{493}, \frac{55}{493}, -\frac{30}{493}, \frac{15}{493}, \frac{25}{493}, \frac{20}{493}, -\frac{20}{493}, -\frac{55}{493})$ $+\frac{5}{493}\sqrt{394}e^2 \otimes e_6 + \frac{5}{986}\sqrt{1982}e^4 \otimes e_9$	{25789, 467}
9521:8	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{35}e^{23}, \frac{1}{7}\sqrt{7}e^{15},$ $\frac{1}{7}\sqrt{7}e^{18} + \frac{1}{7}\sqrt{21}e^{34}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, \frac{1}{2}, 0, 0)$ $+\frac{2}{7}\sqrt{21}e^3 \otimes e_4$	{12358, 1245678, 3567, 45}
9521:8	$0, 0, 0, 0, \frac{20}{931}\sqrt{42}e^{12}, \frac{5}{931}\sqrt{2198}e^{13}, \frac{10}{931}\sqrt{1211}e^{23}, \frac{5}{931}\sqrt{2030}e^{15},$ $\frac{5}{931}\sqrt{3262}e^{18} + \frac{60}{931}\sqrt{21}e^{34}$	$(\frac{15}{133}, -\frac{30}{133}, \frac{20}{133}, -\frac{5}{133}, -\frac{15}{133}, \frac{5}{19}, -\frac{10}{133}, 0, \frac{15}{133})$ $+\frac{5}{931}\sqrt{4746}e^3 \otimes e_4 + \frac{60}{133}e^1 \otimes e_7$	{1468, 247}
9521:8	$0, 0, 0, 0, \frac{3}{167}\sqrt{165}e^{12}, \frac{9}{167}\sqrt{35}e^{13}, \frac{36}{167}\sqrt{2}e^{23}, \frac{3}{167}\sqrt{138}e^{15},$ $\frac{3}{167}\sqrt{165}e^{18} + \frac{36}{167}\sqrt{2}e^{34}$	$(-\frac{9}{167}, \frac{30}{167}, -\frac{27}{167}, \frac{30}{167}, \frac{21}{167}, -\frac{36}{167}, \frac{3}{167}, \frac{12}{167}, \frac{3}{167})$ $+\frac{3}{167}\sqrt{534}e^2 \otimes e_9 + \frac{9}{167}\sqrt{41}e^4 \otimes e_7$	{123468, 1278, 135679, 1459}
9521:8	$0, 0, 0, 0, \frac{3}{167}\sqrt{165}e^{12}, \frac{9}{167}\sqrt{35}e^{13}, \frac{36}{167}\sqrt{2}e^{23}, \frac{3}{167}\sqrt{138}e^{15},$ $\frac{3}{167}\sqrt{165}e^{18} + \frac{36}{167}\sqrt{2}e^{34}$	$(-\frac{9}{167}, \frac{30}{167}, -\frac{27}{167}, \frac{30}{167}, \frac{21}{167}, -\frac{36}{167}, \frac{3}{167}, \frac{12}{167}, \frac{3}{167})$ $+\frac{3}{167}\sqrt{534}e^2 \otimes e_9 - \frac{9}{167}\sqrt{41}e^4 \otimes e_7$	{123468, 1278, 135679, 1459}
9521:8	$0, 0, 0, 0, \frac{2}{157}\sqrt{105}e^{12}, \frac{1}{157}\sqrt{5306}e^{13}, \frac{2}{157}\sqrt{1106}e^{23}, \frac{1}{157}\sqrt{1414}e^{15},$ $\frac{5}{157}\sqrt{14}e^{18} + \frac{6}{157}\sqrt{77}e^{34}$	$(-\frac{21}{157}, \frac{42}{157}, \frac{14}{157}, -\frac{35}{157}, \frac{21}{157}, -\frac{7}{157}, \frac{56}{157}, 0, -\frac{21}{157})$ $+\frac{1}{157}\sqrt{7266}e^3 \otimes e_4 + \frac{84}{157}e^2 \otimes e_6$	{146, 2478}
9521:8	$0, 0, 0, 0, \frac{2}{49}\sqrt{105}e^{12}, \frac{6}{49}\sqrt{7}e^{13}, \frac{1}{49}\sqrt{210}e^{23}, \frac{2}{49}\sqrt{42}e^{15},$ $\frac{1}{49}\sqrt{210}e^{18} + \frac{3}{49}\sqrt{70}e^{34}$	$(-\frac{1}{7}, \frac{19}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{15}{49}, \frac{11}{49}, \frac{5}{49}, -\frac{2}{49})$ $+\frac{2}{7}\sqrt{6}e^2 \otimes e_9 + \frac{3}{49}\sqrt{70}e^4 \otimes e_6$	{135679, 1459}
9521:8	$0, 0, 0, 0, \frac{26}{827}\sqrt{415}e^{12}, \frac{4}{827}\sqrt{21995}e^{13}, \frac{26}{827}\sqrt{415}e^{23}, \frac{10}{827}\sqrt{415}e^{15},$ $\frac{2}{827}\sqrt{25315}e^{18} + \frac{2}{827}\sqrt{25315}e^{34}$	$(-\frac{158}{827}, \frac{489}{827}, -\frac{183}{827}, \frac{198}{827}, \frac{331}{827}, -\frac{341}{827}, \frac{306}{827}, \frac{173}{827}, \frac{15}{827})$ $+\frac{10}{827}\sqrt{11454}e^2 \otimes e_6$	{123, 15689, 2579, 3678}
9521:8	$0, 0, 0, 0, \frac{4}{53}\sqrt{7}e^{12}, \frac{4}{53}\sqrt{70}e^{13}, \frac{2}{53}\sqrt{434}e^{23}, \frac{2}{53}\sqrt{182}e^{15},$ $\frac{4}{53}\sqrt{7}e^{18} + \frac{2}{53}\sqrt{434}e^{34}$	$(\frac{11}{53}, -\frac{7}{53}, -\frac{23}{106}, \frac{75}{106}, \frac{4}{53}, -\frac{1}{106}, -\frac{37}{106}, \frac{15}{53}, \frac{26}{53})$ $+\frac{2}{53}\sqrt{1218}e^4 \otimes e_7$	{123468, 1278, 135679, 1459}
9521:8	$0, 0, 0, 0, \frac{4}{73}\sqrt{105}e^{12}, \frac{18}{73}\sqrt{7}e^{13}, \frac{4}{73}\sqrt{105}e^{23}, \frac{2}{73}\sqrt{273}e^{15},$ $\frac{4}{73}\sqrt{105}e^{18} + \frac{4}{73}\sqrt{105}e^{34}$	$(-\frac{14}{73}, \frac{33}{73}, -\frac{1}{73}, -\frac{8}{73}, \frac{19}{73}, -\frac{15}{73}, \frac{32}{73}, \frac{5}{73}, -\frac{9}{73})$ $+\frac{2}{73}\sqrt{1281}e^2 \otimes e_9$	{123468, 1278, 135679, 1459}
9521:8	$0, 0, 0, 0, \frac{34}{1801}\sqrt{114}e^{12}, \frac{17}{1801}\sqrt{461}e^{13}, \frac{17}{1801}\sqrt{1103}e^{23},$ $\frac{17}{1801}\sqrt{614}e^{15}, \frac{17}{1801}\sqrt{670}e^{18} + \frac{68}{1801}\sqrt{39}e^{34}$	$(\frac{51}{1801}, \frac{51}{1801}, -\frac{289}{1801}, \frac{493}{1801}, \frac{102}{1801}, -\frac{238}{1801}, -\frac{238}{1801}, \frac{153}{1801}, \frac{204}{1801})$ $+\frac{17}{1801}\sqrt{1299}e^2 \otimes e_6 + \frac{17}{1801}\sqrt{1941}e^1 \otimes e_7$	{1238, 1569, 25789, 367}
9521:8	$0, 0, 0, 0, \frac{34}{1801}\sqrt{114}e^{12}, \frac{17}{1801}\sqrt{461}e^{13}, \frac{17}{1801}\sqrt{1103}e^{23},$ $\frac{17}{1801}\sqrt{614}e^{15}, \frac{17}{1801}\sqrt{670}e^{18} + \frac{68}{1801}\sqrt{39}e^{34}$	$(\frac{51}{1801}, \frac{51}{1801}, -\frac{289}{1801}, \frac{493}{1801}, \frac{102}{1801}, -\frac{238}{1801}, -\frac{238}{1801}, \frac{153}{1801}, \frac{204}{1801})$ $-\frac{17}{1801}\sqrt{1299}e^2 \otimes e_6 + \frac{17}{1801}\sqrt{1941}e^1 \otimes e_7$	{1238, 1569, 25789, 367}
9521:8	$0, 0, 0, 0, \frac{10}{287}\sqrt{6}e^{12}, \frac{6}{287}\sqrt{17}e^{13}, \frac{2}{287}\sqrt{282}e^{23}, \frac{2}{287}\sqrt{213}e^{15},$ $\frac{2}{287}\sqrt{282}e^{18} + \frac{6}{287}\sqrt{2}e^{34}$	$(-\frac{2}{287}, \frac{11}{287}, -\frac{19}{287}, \frac{24}{287}, \frac{9}{287}, -\frac{3}{41}, -\frac{8}{287}, \frac{1}{41}, \frac{5}{287})$ $+\frac{10}{287}\sqrt{15}e^2 \otimes e_9 + \frac{12}{287}\sqrt{11}e^1 \otimes e_7$	{123468, 1459}
9521:8	$0, 0, 0, 0, \frac{1}{91}\sqrt{546}e^{12}, \frac{1}{91}\sqrt{858}e^{13}, \frac{6}{91}\sqrt{39}e^{23}, \frac{1}{91}\sqrt{1482}e^{15},$ $\frac{6}{91}\sqrt{39}e^{18} + \frac{2}{91}\sqrt{78}e^{34}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, 0, 0, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7})$ $+\frac{1}{91}\sqrt{1794}e^4 \otimes e_6 + \frac{4}{91}\sqrt{273}e^1 \otimes e_7$	{1569, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:8	$0, 0, 0, 0, \frac{29}{1633}\sqrt{347e^{12}}, \frac{29}{1633}\sqrt{155e^{13}}, \frac{116}{1633}\sqrt{51e^{23}},$ $\frac{58}{1633}\sqrt{17e^{15}}, \frac{87}{1633}\sqrt{17e^{18}} + \frac{58}{1633}\sqrt{79e^{34}}$	$(-\frac{29}{1633}, \frac{348}{1633}, -\frac{464}{1633}, \frac{725}{1633}, \frac{319}{1633}, -\frac{493}{1633}, -\frac{116}{1633}, \frac{290}{1633}, \frac{261}{1633})$ $+ \frac{290}{1633}\sqrt{15e^2} \otimes e_6 + \frac{29}{1633}\sqrt{1407e^4} \otimes e_7$	{2578, 3679}
9521:8	$0, 0, 0, 0, \frac{10}{883}\sqrt{681e^{12}}, \frac{8}{883}\sqrt{227e^{13}}, \frac{2}{883}\sqrt{72867e^{23}}, \frac{34}{883}\sqrt{227e^{15}},$ $\frac{2}{883}\sqrt{72867e^{18}} + \frac{6}{883}\sqrt{4313e^{34}}$	$(\frac{182}{883}, -\frac{251}{883}, -\frac{21}{883}, \frac{316}{883}, -\frac{69}{883}, \frac{161}{883}, -\frac{272}{883}, \frac{113}{883}, \frac{295}{883})$ $+ \frac{6}{883}\sqrt{18614e^1} \otimes e_7$	{1238, 1569, 25789, 367}
9521:8	$0, 0, 0, 0, \frac{1}{49}\sqrt{210e^{12}}, \frac{6}{49}\sqrt{7e^{13}}, \frac{3}{49}\sqrt{70e^{23}}, \frac{2}{49}\sqrt{42e^{15}},$ $\frac{2}{49}\sqrt{105e^{18}} + \frac{1}{49}\sqrt{210e^{34}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, 0, \frac{3}{7}, 0, -\frac{1}{7})$ $+ \frac{2}{7}\sqrt{6e^2} \otimes e_9 + \frac{3}{49}\sqrt{70e^3} \otimes e_4$	{135679, 1459}
9521:8	$0, 0, 0, 0, \frac{1}{7}\sqrt{7e^{12}}, \frac{1}{7}\sqrt{35e^{13}}, \frac{1}{7}\sqrt{21e^{23}}, \frac{1}{7}\sqrt{7e^{15}},$ $\frac{1}{7}\sqrt{21e^{18}} + \frac{1}{7}\sqrt{35e^{34}}$	$(0, \frac{2}{7}, -\frac{5}{14}, \frac{9}{14}, \frac{2}{7}, -\frac{5}{14}, -\frac{1}{14}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{7}\sqrt{21e^4} \otimes e_6$	{12347, 126, 235679, 2459}
9521:9	$0, 0, 0, 0, \frac{72}{2357}\sqrt{278e^{12}}, \frac{6}{2357}\sqrt{39059e^{13}},$ $\frac{6}{2357}\sqrt{98134e^{14}} + \frac{6}{2357}\sqrt{11398e^{23}}, \frac{6}{2357}\sqrt{1946e^{15}}, \frac{12}{2357}\sqrt{25715e^{18}}$	$(-\frac{480}{2357}, \frac{589}{2357}, \frac{582}{2357}, \frac{1651}{2357}, \frac{109}{2357}, \frac{102}{2357}, \frac{1171}{2357}, -\frac{371}{2357}, -\frac{851}{2357})$ $+ \frac{6}{2357}\sqrt{274386e^4} \otimes e_9$	{1234568, 13679, 2389, 3457}
9521:9	$0, 0, 0, 0, \frac{8}{413}\sqrt{35e^{12}}, \frac{4}{413}\sqrt{413e^{13}}, \frac{32}{413}\sqrt{14e^{14}} + \frac{4}{413}\sqrt{623e^{23}},$ $\frac{4}{413}\sqrt{707e^{15}}, \frac{4}{59}\sqrt{22e^{18}}$	$(\frac{4}{59}, -\frac{10}{59}, \frac{10}{59}, -\frac{4}{59}, -\frac{6}{59}, \frac{14}{59}, 0, -\frac{2}{59}, \frac{2}{59})$ $+ \frac{4}{413}\sqrt{1253e^3} \otimes e_9 + \frac{4}{413}\sqrt{1365e^1} \otimes e_4$	{1238, 1569}
9521:9	$0, 0, 0, 0, \frac{2}{7}\sqrt{6e^{12}}, \frac{3}{7}\sqrt{5e^{13}}, \frac{3}{7}\sqrt{5e^{14}} + \frac{4}{7}\sqrt{3e^{23}},$ $\frac{1}{7}\sqrt{33e^{15}}, \frac{4}{7}\sqrt{3e^{18}}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, -\frac{2}{7})$ $+ \frac{1}{7}\sqrt{69e^2} \otimes e_9 + \frac{6}{7}e^4 \otimes e_6$	{1345679, 159}
9521:9	$0, 0, 0, 0, \frac{2}{799}\sqrt{45730e^{12}}, \frac{2}{799}\sqrt{38198e^{13}},$ $\frac{2}{799}\sqrt{53531e^{14}} + \frac{6}{799}\sqrt{10222e^{23}}, \frac{2}{799}\sqrt{15602e^{15}}, \frac{6}{799}\sqrt{10222e^{18}}$	$(-\frac{56}{799}, -\frac{55}{799}, \frac{315}{799}, \frac{316}{799}, -\frac{111}{799}, \frac{259}{799}, \frac{260}{799}, -\frac{167}{799}, -\frac{223}{799})$ $+ \frac{2}{799}\sqrt{183458e^3} \otimes e_9$	{1245679, 13478, 2346, 4589}
9521:9	$0, 0, 0, 0, \frac{4}{121}\sqrt{105e^{12}}, \frac{8}{121}\sqrt{15e^{13}}, \frac{8}{121}\sqrt{26e^{14}} + \frac{4}{121}\sqrt{37e^{23}},$ $\frac{12}{121}\sqrt{10e^{15}}, \frac{4}{121}\sqrt{55e^{18}}$	$(\frac{20}{363}, \frac{10}{121}, -\frac{62}{363}, -\frac{52}{363}, \frac{50}{363}, \frac{14}{121}, -\frac{32}{363}, \frac{30}{121}, \frac{30}{121})$ $+ \frac{4}{121}\sqrt{137e^2} \otimes e_6 + \frac{4}{121}\sqrt{191e^1} \otimes e_4$	{1238, 1569}
9521:9	$0, 0, 0, 0, \frac{2}{539}\sqrt{222e^{12}}, \frac{1}{539}\sqrt{411e^{13}}, \frac{1}{539}\sqrt{1131e^{14}} + \frac{4}{539}\sqrt{51e^{23}},$ $\frac{3}{49}e^{15}, \frac{36}{539}e^{18}$	$(-\frac{1}{539}, \frac{15}{539}, -\frac{20}{539}, -\frac{4}{539}, \frac{2}{77}, -\frac{3}{77}, -\frac{5}{539}, \frac{13}{539}, \frac{12}{539})$ $+ \frac{12}{539}\sqrt{10e^1} \otimes e_4 + \frac{1}{539}\sqrt{1509e^2} \otimes e_9$	{12368, 159}
9521:9	$0, 0, 0, 0, \frac{18}{2477}\sqrt{6478e^{12}}, \frac{6}{2477}\sqrt{17854e^{13}},$ $\frac{6}{2477}\sqrt{64859e^{14}} + \frac{6}{2477}\sqrt{395e^{23}}, \frac{192}{2477}\sqrt{79e^{15}}, \frac{6}{2477}\sqrt{61462e^{18}}$	$(\frac{532}{2477}, -\frac{435}{2477}, \frac{77}{2477}, -\frac{890}{2477}, \frac{97}{2477}, \frac{609}{2477}, -\frac{358}{2477}, \frac{629}{2477}, \frac{1161}{2477})$ $+ \frac{6}{2477}\sqrt{165426e^1} \otimes e_4$	{1238, 1569, 2345689, 4}
9521:9	$0, 0, 0, 0, \frac{6}{17}\sqrt{2e^{12}}, \frac{3}{17}\sqrt{11e^{13}}, \frac{3}{17}\sqrt{11e^{14}} + \frac{12}{17}e^{23}, \frac{9}{17}e^{15},$ $\frac{12}{17}e^{18}$	$(-\frac{3}{17}, \frac{5}{17}, 0, \frac{8}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{5}{17}, -\frac{1}{17}, -\frac{4}{17})$ $+ \frac{3}{17}\sqrt{29e^2} \otimes e_9$	{12368, 12478, 1345679, 159}
9521:9	$0, 0, 0, 0, \frac{36}{2405}\sqrt{2159e^{12}}, \frac{12}{2405}\sqrt{18034e^{13}},$ $\frac{6}{2405}\sqrt{55499e^{14}} + \frac{6}{2405}\sqrt{70358e^{23}}, \frac{12}{2405}\sqrt{2794e^{15}}, \frac{12}{2405}\sqrt{3683e^{18}}$	$(-\frac{64}{481}, \frac{1239}{2405}, -\frac{727}{2405}, \frac{64}{185}, \frac{919}{2405}, -\frac{1047}{2405}, \frac{512}{2405}, \frac{599}{2405}, \frac{279}{2405})$ $+ \frac{6}{2405}\sqrt{255270e^2} \otimes e_6$	{12389, 156, 2578, 3679}
9521:9	$0, 0, 0, 0, \frac{1}{91}\sqrt{1326e^{12}}, \frac{1}{91}\sqrt{2262e^{13}}, \frac{6}{91}\sqrt{13e^{14}} + \frac{6}{91}\sqrt{26e^{23}},$ $\frac{3}{91}\sqrt{78e^{15}}, \frac{6}{91}\sqrt{26e^{18}}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, -\frac{2}{7})$ $+ \frac{1}{91}\sqrt{2886e^4} \otimes e_6 + \frac{2}{91}\sqrt{897e^3} \otimes e_9$	{123458, 24789}
9521:9	$0, 0, 0, 0, \frac{53}{4269}\sqrt{658e^{12}}, \frac{212}{4269}\sqrt{41e^{13}},$ $\frac{53}{4269}\sqrt{374e^{14}} + \frac{106}{4269}\sqrt{282e^{23}}, \frac{106}{4269}e^{15}, \frac{106}{4269}\sqrt{235e^{18}}$	$(-\frac{265}{1423}, \frac{1643}{4269}, -\frac{371}{4269}, \frac{689}{1423}, \frac{848}{4269}, -\frac{1166}{4269}, \frac{424}{1423}, \frac{53}{4269}, -\frac{742}{4269})$ $+ \frac{53}{4269}\sqrt{3466e^4} \otimes e_9 + \frac{53}{4269}\sqrt{4030e^2} \otimes e_6$	{12348, 3467}
9521:9	$0, 0, 0, 0, \frac{1}{176}\sqrt{6342e^{12}}, \frac{1}{176}\sqrt{24915e^{13}}, \frac{1}{176}\sqrt{24915e^{14}} + \frac{1}{88}\sqrt{3171e^{23}},$ $\frac{7}{176}\sqrt{302e^{15}}, \frac{1}{88}\sqrt{3171e^{18}}$	$(-\frac{35}{176}, \frac{81}{176}, -\frac{45}{352}, \frac{17}{32}, \frac{23}{88}, -\frac{115}{352}, \frac{117}{352}, \frac{1}{16}, -\frac{3}{22})$ $+ \frac{1}{88}\sqrt{11929e^4} \otimes e_6$	{134, 167, 3569, 4579}
9521:10	$0, 0, 0, 0, \frac{57}{179}\sqrt{3e^{12}}, \frac{6}{179}\sqrt{589e^{13}}, \frac{6}{179}\sqrt{589e^{14}} + \frac{27}{179}\sqrt{19e^{23}},$ $\frac{12}{179}\sqrt{57e^{25}}, \frac{3}{179}\sqrt{1273e^{28}}$	$(-\frac{64}{179}, \frac{43}{179}, \frac{10}{179}, \frac{117}{179}, -\frac{21}{179}, -\frac{54}{179}, \frac{53}{179}, \frac{22}{179}, \frac{65}{179})$ $+ \frac{3}{179}\sqrt{5605e^4} \otimes e_6$	{134, 167, 35689, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:10	$0, 0, 0, 0, \frac{106}{6565}\sqrt{7}e^{12}, \frac{53}{6565}\sqrt{4574}e^{13},$ $\frac{53}{6565}\sqrt{1310}e^{14} + \frac{53}{6565}\sqrt{690}e^{23}, \frac{212}{6565}\sqrt{14}e^{25}, \frac{53}{6565}\sqrt{2434}e^{28}$	$(\frac{318}{1313}, -\frac{1007}{6565}, \frac{106}{505}, -\frac{1219}{6565}, \frac{583}{6565}, \frac{2968}{6565}, \frac{371}{6565}, -\frac{424}{6565}, -\frac{1431}{6565})$ $+ \frac{53}{6565}\sqrt{5110}e^1 \otimes e_4 + \frac{53}{6565}\sqrt{6658}e^3 \otimes e_9$	{1238, 15689}
9521:10	$0, 0, 0, 0, \frac{39}{8509}\sqrt{4110}e^{12}, \frac{78}{8509}\sqrt{1345}e^{13},$ $\frac{273}{8509}\sqrt{46}e^{14} + \frac{39}{8509}\sqrt{978}e^{23}, \frac{39}{8509}\sqrt{3910}e^{25}, \frac{78}{8509}\sqrt{635}e^{28}$	$(\frac{390}{8509}, \frac{585}{8509}, -\frac{1326}{8509}, -\frac{1131}{8509}, \frac{975}{8509}, -\frac{936}{8509}, -\frac{741}{8509}, \frac{1560}{8509}, \frac{2145}{8509})$ $+ \frac{39}{8509}\sqrt{6266}e^1 \otimes e_4 + \frac{39}{8509}\sqrt{9002}e^2 \otimes e_6$	{2459, 346}
9521:10	$0, 0, 0, 0, \frac{52}{3001}\sqrt{645}e^{12}, \frac{78}{3001}\sqrt{515}e^{13}, \frac{390}{3001}\sqrt{7}e^{14} + \frac{26}{3001}\sqrt{95}e^{23},$ $\frac{26}{3001}\sqrt{4970}e^{25}, \frac{26}{3001}\sqrt{4110}e^{28}$	$(-\frac{611}{3001}, \frac{650}{3001}, -\frac{429}{3001}, \frac{832}{3001}, \frac{39}{3001}, \frac{1040}{3001}, \frac{221}{3001}, \frac{689}{3001}, \frac{1339}{3001})$ $+ \frac{156}{3001}\sqrt{345}e^2 \otimes e_6$	{1238, 15689, 2579, 367}
9521:10	$0, 0, 0, 0, \frac{4}{2785}\sqrt{175973}e^{12}, \frac{2}{2785}\sqrt{1107209}e^{13},$ $\frac{2}{2785}\sqrt{180345}e^{14} + \frac{2}{2785}\sqrt{606615}e^{23}, \frac{2}{2785}\sqrt{45906}e^{25}, \frac{2}{2785}\sqrt{1047094}e^{28}$	$(\frac{45}{557}, -\frac{398}{2785}, \frac{1217}{2785}, \frac{594}{2785}, -\frac{173}{2785}, \frac{1442}{2785}, \frac{819}{2785}, -\frac{571}{2785}, -\frac{969}{2785})$ $+ \frac{4}{2785}\sqrt{643777}e^3 \otimes e_9$	{12358, 1689, 279, 3567}
9521:10	$0, 0, 0, 0, \frac{1}{47}\sqrt{3}e^{12}, \frac{4}{47}\sqrt{6}e^{13}, \frac{4}{47}\sqrt{6}e^{14} + \frac{3}{47}\sqrt{11}e^{23},$ $\frac{1}{47}\sqrt{42}e^{25}, \frac{1}{47}\sqrt{93}e^{28}$	$(-\frac{2}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{3}{47}, \frac{4}{47}, -\frac{4}{47}, -\frac{5}{47})$ $- \frac{1}{47}\sqrt{105}e^4 \otimes e_6 + \frac{5}{47}\sqrt{6}e^1 \otimes e_9$	{134, 167, 35689, 45789}
9521:10	$0, 0, 0, 0, \frac{25}{1849}\sqrt{81}e^{12}, \frac{200}{1849}\sqrt{21}e^{13},$ $\frac{50}{1849}\sqrt{110}e^{14} + \frac{25}{1849}\sqrt{37}e^{23}, \frac{100}{1849}\sqrt{7}e^{25}, \frac{25}{1849}\sqrt{985}e^{28}$	$(-\frac{300}{1849}, \frac{25}{1849}, \frac{400}{1849}, \frac{725}{1849}, -\frac{275}{1849}, \frac{100}{1849}, \frac{425}{1849}, -\frac{250}{1849}, -\frac{225}{1849})$ $+ \frac{100}{1849}\sqrt{113}e^3 \otimes e_9 + \frac{25}{1849}\sqrt{1517}e^4 \otimes e_6$	{125679, 2368}
9521:10	$0, 0, 0, 0, \frac{195}{5557}\sqrt{2}e^{12}, \frac{78}{5557}\sqrt{527}e^{13},$ $\frac{39}{5557}\sqrt{1630}e^{14} + \frac{78}{5557}\sqrt{321}e^{23}, \frac{78}{5557}\sqrt{667}e^{25}, \frac{546}{5557}\sqrt{21}e^{28}$	$(-\frac{1209}{5557}, \frac{585}{5557}, \frac{273}{5557}, \frac{2067}{5557}, -\frac{624}{5557}, -\frac{936}{5557}, \frac{858}{5557}, -\frac{39}{5557}, \frac{546}{5557})$ $+ \frac{195}{5557}\sqrt{214}e^2 \otimes e_6 + \frac{507}{5557}\sqrt{26}e^4 \otimes e_9$	{156789, 259}
9521:10	$0, 0, 0, 0, \frac{12}{37}e^{12}, \frac{12}{37}\sqrt{3}e^{13}, \frac{12}{37}\sqrt{3}e^{14} + \frac{6}{37}\sqrt{15}e^{23},$ $\frac{6}{37}\sqrt{7}e^{25}, \frac{24}{37}e^{28}$	$(\frac{9}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{3}{37}, \frac{18}{37}, \frac{3}{37}, -\frac{3}{37}, -\frac{9}{37})$ $+ \frac{6}{37}\sqrt{31}e^1 \otimes e_9$	{12378, 12468, 2345679, 259}
9521:10	$0, 0, 0, 0, \frac{2}{2781}\sqrt{1251930}e^{12}, \frac{4}{2781}\sqrt{315141}e^{13},$ $\frac{4}{2781}\sqrt{100730}e^{14} + \frac{2}{2781}\sqrt{628843}e^{23}, \frac{2}{2781}\sqrt{434578}e^{25}, \frac{4}{2781}\sqrt{4317}e^{28}$	$(\frac{1315}{2781}, -\frac{278}{2781}, \frac{10}{927}, -\frac{521}{927}, \frac{1037}{2781}, \frac{1345}{2781}, -\frac{248}{2781}, \frac{253}{927}, \frac{481}{2781})$ $+ \frac{68}{2781}\sqrt{2878}e^1 \otimes e_4$	{1268, 13589, 2459, 346}
9521:10	$0, 0, 0, 0, \frac{1}{47}\sqrt{3}e^{12}, \frac{4}{47}\sqrt{6}e^{13}, \frac{4}{47}\sqrt{6}e^{14} + \frac{3}{47}\sqrt{11}e^{23},$ $\frac{1}{47}\sqrt{42}e^{25}, \frac{1}{47}\sqrt{93}e^{28}$	$(-\frac{2}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{3}{47}, \frac{4}{47}, -\frac{4}{47}, -\frac{5}{47})$ $+ \frac{1}{47}\sqrt{105}e^4 \otimes e_6 + \frac{5}{47}\sqrt{6}e^1 \otimes e_9$	{134, 167, 35689, 45789}
9521:10	$0, 0, 0, 0, \frac{10}{2829}\sqrt{22682}e^{12}, \frac{2}{2829}\sqrt{142278}e^{13},$ $\frac{2}{2829}\sqrt{1371230}e^{14} + \frac{2}{2829}\sqrt{772219}e^{23}, \frac{2}{2829}\sqrt{410338}e^{25}, \frac{8}{2829}\sqrt{88666}e^{28}$	$(-\frac{473}{2829}, -\frac{10}{943}, \frac{352}{943}, \frac{1499}{2829}, -\frac{503}{2829}, \frac{583}{2829}, \frac{342}{943}, -\frac{13}{69}, -\frac{563}{2829})$ $+ \frac{8}{2829}\sqrt{153619}e^4 \otimes e_9$	{123579, 134, 234678, 35689}
9521:11	$0, 0, 0, 0, \frac{29}{3869}\sqrt{2454}e^{12}, \frac{58}{3869}\sqrt{30}e^{13}, \frac{29}{3869}\sqrt{2586}e^{34},$ $\frac{29}{3869}\sqrt{2082}e^{15}, \frac{58}{3869}\sqrt{442}e^{18} + \frac{174}{3869}\sqrt{42}e^{23}$	$(-\frac{29}{3869}, \frac{725}{3869}, -\frac{87}{3869}, -\frac{783}{3869}, \frac{696}{3869}, -\frac{116}{3869}, -\frac{870}{3869}, \frac{667}{3869}, \frac{638}{3869})$ $+ \frac{261}{3869}\sqrt{66}e^1 \otimes e_7 + \frac{406}{3869}\sqrt{7}e^2 \otimes e_6$	{1569, 367}
9521:11	$0, 0, 0, 0, \frac{4}{2885}\sqrt{286878}e^{12}, \frac{6}{2885}\sqrt{100163}e^{13}, \frac{4}{2885}\sqrt{277455}e^{34},$ $\frac{2}{2885}\sqrt{466962}e^{15}, \frac{36}{2885}\sqrt{349}e^{18} + \frac{2}{2885}\sqrt{592602}e^{23}$	$(-\frac{96}{2885}, \frac{1223}{2885}, -\frac{288}{2885}, -\frac{583}{2885}, \frac{1127}{2885}, -\frac{384}{2885}, -\frac{871}{2885}, \frac{1031}{2885}, \frac{187}{577})$ $+ \frac{4}{2885}\sqrt{630294}e^2 \otimes e_7$	{1289, 1457, 23458, 379}
9521:11	$0, 0, 0, 0, \frac{1}{628}\sqrt{129867}e^{12}, \frac{1}{628}\sqrt{323778}e^{13}, \frac{1}{314}\sqrt{43289}e^{34},$ $\frac{1}{314}\sqrt{19569}e^{15}, \frac{1}{628}\sqrt{129867}e^{18} + \frac{1}{157}\sqrt{17790}e^{23}$	$(\frac{87}{628}, -\frac{111}{1256}, \frac{261}{628}, -\frac{83}{157}, \frac{63}{1256}, \frac{87}{157}, -\frac{71}{628}, \frac{237}{1256}, \frac{411}{1256})$ $+ \frac{1}{628}\sqrt{655858}e^3 \otimes e_4$	{1245689, 146, 2368, 3569}
9521:11	$0, 0, 0, 0, \frac{3}{112}\sqrt{53}e^{12}, \frac{3}{112}\sqrt{13}e^{13}, \frac{3}{112}\sqrt{91}e^{34}, \frac{15}{112}\sqrt{2}e^{15},$ $\frac{3}{112}\sqrt{53}e^{18} + \frac{3}{112}\sqrt{62}e^{23}$	$(-\frac{3}{112}, \frac{33}{224}, -\frac{9}{112}, -\frac{3}{112}, \frac{27}{224}, -\frac{3}{28}, -\frac{3}{28}, \frac{3}{32}, \frac{15}{224})$ $+ \frac{3}{112}\sqrt{139}e^1 \otimes e_7 + \frac{3}{112}\sqrt{61}e^4 \otimes e_6$	{1268, 1569, 2356789, 367}
9521:11	$0, 0, 0, 0, \frac{141}{4589}\sqrt{142}e^{12}, \frac{94}{4589}\sqrt{42}e^{13}, \frac{47}{4589}\sqrt{934}e^{34},$ $\frac{94}{4589}\sqrt{66}e^{15}, \frac{94}{4589}\sqrt{258}e^{18} + \frac{141}{4589}\sqrt{290}e^{23}$	$(\frac{141}{4589}, \frac{846}{4589}, \frac{423}{4589}, -\frac{1786}{4589}, \frac{987}{4589}, \frac{564}{4589}, -\frac{1363}{4589}, \frac{1128}{4589}, \frac{1269}{4589})$ $+ \frac{47}{4589}\sqrt{3598}e^3 \otimes e_4 + \frac{94}{4589}\sqrt{1155}e^2 \otimes e_7$	{14567, 3679}
9521:11	$0, 0, 0, 0, \frac{36}{2885}\sqrt{349}e^{12}, \frac{6}{2885}\sqrt{100163}e^{13}, \frac{4}{2885}\sqrt{277455}e^{34},$ $\frac{2}{2885}\sqrt{466962}e^{15}, \frac{4}{2885}\sqrt{286878}e^{18} + \frac{4}{2885}\sqrt{592602}e^{23}$	$(-\frac{96}{2885}, \frac{19}{2885}, -\frac{288}{2885}, \frac{365}{577}, -\frac{77}{2885}, -\frac{384}{2885}, \frac{1537}{2885}, -\frac{173}{2885}, -\frac{269}{2885})$ $+ \frac{4}{2885}\sqrt{630294}e^4 \otimes e_9$	{1259, 1478, 234, 35789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:11	$0, 0, 0, 0, \frac{7}{6701}\sqrt{2622e^{12}}, \frac{28}{6701}\sqrt{130e^{13}}, \frac{7}{6701}\sqrt{5738e^{34}}, \frac{7}{6701}\sqrt{3666e^{15}}, \frac{112}{6701}\sqrt{19e^{18}} + \frac{14}{6701}\sqrt{433e^{23}}$	$(-\frac{77}{6701}, \frac{287}{6701}, -\frac{231}{6701}, \frac{105}{6701}, \frac{210}{6701}, -\frac{308}{6701}, -\frac{126}{6701}, \frac{133}{6701}, \frac{56}{6701}) + \frac{14}{6701}\sqrt{1121e^4} \otimes e_9 + \frac{7}{6701}\sqrt{7454e^1} \otimes e_7$	{159, 235789}
9521:11	$0, 0, 0, 0, \frac{3}{112}\sqrt{53e^{12}}, \frac{3}{112}\sqrt{13e^{13}}, \frac{3}{112}\sqrt{91e^{34}}, \frac{15}{112}\sqrt{2e^{15}}, \frac{3}{112}\sqrt{53e^{18}} + \frac{3}{112}\sqrt{62e^{23}}$	$(-\frac{3}{112}, \frac{33}{224}, -\frac{9}{112}, -\frac{3}{112}, \frac{27}{224}, -\frac{3}{28}, -\frac{3}{28}, \frac{3}{32}, \frac{15}{224}) + \frac{3}{112}\sqrt{139e^1} \otimes e_7 - \frac{3}{112}\sqrt{61e^4} \otimes e_6$	{1268, 1569, 2356789, 367}
9521:11	$0, 0, 0, 0, \frac{1}{684}\sqrt{745e^{12}}, \frac{1}{342}\sqrt{76735e^{13}}, \frac{1}{684}\sqrt{284590e^{34}}, \frac{1}{684}\sqrt{46190e^{15}}, \frac{1}{684}\sqrt{745e^{18}} + \frac{5}{684}\sqrt{5662e^{23}}$	$(-\frac{7}{76}, \frac{415}{1368}, -\frac{21}{76}, \frac{493}{684}, \frac{289}{1368}, -\frac{7}{19}, \frac{4}{9}, \frac{163}{1368}, \frac{37}{1368}) + \frac{1}{684}\sqrt{850790e^4} \otimes e_6$	{12349, 13458, 2457, 4789}
9521:11	$0, 0, 0, 0, \frac{234}{8309}\sqrt{3e^{12}}, \frac{312}{8309}\sqrt{110e^{13}}, \frac{39}{8309}\sqrt{4130e^{34}}, \frac{78}{8309}\sqrt{535e^{15}}, \frac{39}{8309}\sqrt{4094e^{18}} + \frac{39}{8309}\sqrt{5970e^{23}}$	$(-\frac{39}{8309}, \frac{195}{1187}, -\frac{117}{8309}, -\frac{234}{1187}, \frac{1326}{8309}, -\frac{156}{8309}, -\frac{1755}{8309}, \frac{1287}{8309}, \frac{1248}{8309}) + \frac{39}{8309}\sqrt{8026e^3} \otimes e_4 + \frac{78}{8309}\sqrt{1993e^2} \otimes e_6$	{146, 3569}
9521:11	$0, 0, 0, 0, \frac{2}{533}\sqrt{673215e^{12}}, \frac{2}{2665}\sqrt{1008003e^{13}}, \frac{2}{2665}\sqrt{487626e^{34}}, \frac{2}{533}\sqrt{7278e^{15}}, \frac{2}{2665}\sqrt{712031e^{18}} + \frac{12}{2665}\sqrt{25473e^{23}}$	$(-\frac{268}{2665}, \frac{1354}{2665}, -\frac{804}{2665}, \frac{783}{2665}, \frac{1086}{2665}, -\frac{1072}{2665}, -\frac{21}{2665}, \frac{818}{2665}, \frac{110}{533}) + \frac{4}{2665}\sqrt{692623e^2} \otimes e_6$	{123, 12347, 2459, 2579}
9521:11	$0, 0, 0, 0, \frac{53}{6381}\sqrt{2866e^{12}}, \frac{53}{6381}\sqrt{674e^{13}}, \frac{106}{6381}\sqrt{1057e^{34}}, \frac{53}{6381}\sqrt{706e^{15}}, \frac{530}{6381}\sqrt{5e^{18}} + \frac{212}{6381}\sqrt{47e^{23}}$	$(-\frac{53}{709}, \frac{2279}{6381}, -\frac{159}{709}, \frac{901}{6381}, \frac{1802}{6381}, -\frac{212}{709}, \frac{530}{6381}, \frac{1325}{6381}, \frac{848}{6381}) + \frac{106}{2127}\sqrt{187e^2} \otimes e_7 + \frac{53}{6381}\sqrt{4586e^4} \otimes e_6$	{1457, 23458}
9521:11	$0, 0, 0, 0, \frac{2}{85}\sqrt{390e^{12}}, \frac{2}{85}\sqrt{6e^{13}}, \frac{4}{85}\sqrt{130e^{34}}, \frac{2}{85}\sqrt{390e^{15}}, \frac{2}{85}\sqrt{390e^{18}} + \frac{2}{85}\sqrt{390e^{23}}$	$(0, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}) + \frac{2}{85}\sqrt{170e^3} \otimes e_4 + \frac{2}{85}\sqrt{870e^1} \otimes e_7$	{128, 159}
9521:11	$0, 0, 0, 0, \frac{3}{167}\sqrt{165e^{12}}, \frac{9}{167}\sqrt{35e^{13}}, \frac{3}{334}\sqrt{1482e^{34}}, \frac{3}{167}\sqrt{138e^{15}}, \frac{3}{167}\sqrt{165e^{18}} + \frac{3}{334}\sqrt{822e^{23}}$	$(-\frac{9}{167}, \frac{30}{167}, -\frac{27}{167}, \frac{30}{167}, \frac{21}{167}, -\frac{36}{167}, \frac{3}{167}, \frac{12}{167}, \frac{3}{167}) + \frac{3}{334}\sqrt{1806e^2} \otimes e_7 + \frac{3}{334}\sqrt{1806e^4} \otimes e_9$	{123468, 135679, 25689, 467}
9521:11	$0, 0, 0, 0, \frac{3}{167}\sqrt{165e^{12}}, \frac{9}{167}\sqrt{35e^{13}}, \frac{3}{334}\sqrt{1482e^{34}}, \frac{3}{167}\sqrt{138e^{15}}, \frac{3}{167}\sqrt{165e^{18}} + \frac{3}{334}\sqrt{822e^{23}}$	$(-\frac{9}{167}, \frac{30}{167}, -\frac{27}{167}, \frac{30}{167}, \frac{21}{167}, -\frac{36}{167}, \frac{3}{167}, \frac{12}{167}, \frac{3}{167}) + \frac{3}{334}\sqrt{1806e^2} \otimes e_7 - \frac{3}{334}\sqrt{1806e^4} \otimes e_9$	{123468, 135679, 25689, 467}
9521:11	$0, 0, 0, 0, \frac{3}{748}\sqrt{11001e^{12}}, \frac{1}{748}\sqrt{18142e^{13}}, \frac{3}{374}\sqrt{3667e^{34}}, \frac{1}{748}\sqrt{102290e^{15}}, \frac{3}{748}\sqrt{11001e^{18}} + \frac{3}{748}\sqrt{89166e^{23}}$	$(\frac{1}{44}, \frac{179}{1496}, \frac{3}{44}, -\frac{227}{748}, \frac{213}{1496}, \frac{1}{11}, -\frac{4}{17}, \frac{247}{1496}, \frac{281}{1496}) + \frac{1}{748}\sqrt{244338e^1} \otimes e_7$	{128, 159, 235789, 37}
9521:11	$0, 0, 0, 0, \frac{188}{4409}\sqrt{33e^{12}}, \frac{470}{4409}\sqrt{3e^{13}}, \frac{141}{4409}\sqrt{134e^{34}}, \frac{705}{4409}\sqrt{2e^{15}}, \frac{47}{4409}\sqrt{1030e^{18}} + \frac{47}{4409}\sqrt{2118e^{23}}$	$(-\frac{329}{4409}, \frac{893}{4409}, -\frac{987}{4409}, \frac{2115}{4409}, \frac{564}{4409}, -\frac{1316}{4409}, \frac{1128}{4409}, \frac{235}{4409}, -\frac{94}{4409}) + \frac{47}{4409}\sqrt{3382e^2} \otimes e_6 + \frac{47}{4409}\sqrt{4386e^4} \otimes e_9$	{135679, 467}
9521:12	$0, 0, 0, 0, \frac{2}{7}\sqrt{3e^{12}}, \frac{1}{7}\sqrt{5e^{13}}, \frac{1}{7}\sqrt{5e^{14}}, \frac{1}{7}\sqrt{5e^{15}}, \frac{2}{7}e^{18} + \frac{4}{7}e^{34}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, -\frac{2}{7}, \frac{1}{7}, 0) + \frac{2}{7}\sqrt{3e^3} \otimes e_7 + \frac{5}{7}e^2 \otimes e_9$	{13569, 14579}
9521:12	$0, 0, 0, 0, \frac{3}{14}\sqrt{7e^{12}}, \frac{1}{28}\sqrt{273e^{13}}, \frac{1}{28}\sqrt{273e^{14}}, \frac{1}{28}\sqrt{210e^{15}}, \frac{3}{28}\sqrt{42e^{18}} + \frac{3}{14}\sqrt{7e^{34}}$	$(\frac{1}{4}, -\frac{1}{2}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, 0, \frac{1}{4}) + \frac{3}{7}\sqrt{7e^1} \otimes e_2$	{1378, 236}
9521:12	$0, 0, 0, 0, \frac{3}{119}\sqrt{102e^{12}}, \frac{4}{119}\sqrt{255e^{13}}, \frac{3}{119}\sqrt{170e^{14}}, \frac{3}{119}\sqrt{170e^{15}}, \frac{2}{119}\sqrt{561e^{18}} + \frac{6}{119}\sqrt{34e^{34}}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, -\frac{2}{7}, \frac{1}{7}, 0) + \frac{10}{119}\sqrt{51e^2} \otimes e_6 + \frac{1}{119}\sqrt{6018e^3} \otimes e_7$	{1234, 24579}
9521:12	$0, 0, 0, 0, \frac{12}{2357}\sqrt{25715e^{12}}, \frac{6}{2357}\sqrt{98134e^{13}}, \frac{6}{2357}\sqrt{39059e^{14}}, \frac{6}{2357}\sqrt{1946e^{15}}, \frac{72}{2357}\sqrt{278e^{18}} + \frac{6}{2357}\sqrt{11398e^{34}}$	$(-\frac{480}{2357}, \frac{1617}{2357}, -\frac{405}{2357}, \frac{582}{2357}, \frac{1137}{2357}, -\frac{885}{2357}, \frac{102}{2357}, \frac{657}{2357}, \frac{177}{2357}) + \frac{6}{2357}\sqrt{274386e^2} \otimes e_6$	{12347, 1456789, 2459, 3468}
9521:12	$0, 0, 0, 0, \frac{3}{128}\sqrt{38e^{12}}, \frac{3}{64}\sqrt{23e^{13}}, \frac{3}{64}\sqrt{23e^{14}}, \frac{3}{128}\sqrt{58e^{15}}, \frac{3}{64}\sqrt{15e^{18}} + \frac{3}{64}\sqrt{11e^{34}}$	$(-\frac{9}{128}, \frac{3}{16}, -\frac{3}{256}, -\frac{3}{256}, \frac{15}{128}, -\frac{21}{256}, -\frac{21}{256}, \frac{3}{64}, -\frac{3}{128}) + \frac{3}{128}\sqrt{123e^3} \otimes e_7 - \frac{3}{128}\sqrt{123e^4} \otimes e_6$	{134, 167, 3569}
9521:12	$0, 0, 0, 0, \frac{3}{128}\sqrt{38e^{12}}, \frac{3}{64}\sqrt{23e^{13}}, \frac{3}{64}\sqrt{23e^{14}}, \frac{3}{128}\sqrt{58e^{15}}, \frac{3}{64}\sqrt{15e^{18}} + \frac{3}{64}\sqrt{11e^{34}}$	$(-\frac{9}{128}, \frac{3}{16}, -\frac{3}{256}, -\frac{3}{256}, \frac{15}{128}, -\frac{21}{256}, -\frac{21}{256}, \frac{3}{64}, -\frac{3}{128}) + \frac{3}{128}\sqrt{123e^3} \otimes e_7 + \frac{3}{128}\sqrt{123e^4} \otimes e_6$	{134, 167, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:12	$0, 0, 0, 0, \frac{3}{98}\sqrt{133}e^{12}, \frac{3}{196}\sqrt{805}e^{13}, \frac{3}{196}\sqrt{805}e^{14}, \frac{3}{196}\sqrt{14}e^{15},$ $\frac{3}{196}\sqrt{210}e^{18} + \frac{3}{98}\sqrt{35}e^{34}$	$(\frac{3}{28}, -\frac{3}{14}, \frac{15}{56}, -\frac{9}{56}, -\frac{3}{28}, \frac{3}{8}, -\frac{3}{56}, 0, \frac{3}{28})$ $+ \frac{3}{14}\sqrt{6}e^3 \otimes e_7 + \frac{6}{49}\sqrt{21}e^1 \otimes e_2$	{1349, 1679}
9521:12	$0, 0, 0, 0, \frac{3}{286}\sqrt{1653}e^{12}, \frac{3}{572}\sqrt{20805}e^{13}, \frac{3}{572}\sqrt{20805}e^{14}, \frac{57}{572}\sqrt{30}e^{15},$ $\frac{9}{572}\sqrt{1406}e^{18} + \frac{3}{286}\sqrt{3021}e^{34}$	$(-\frac{21}{572}, \frac{69}{286}, \frac{567}{1144}, -\frac{417}{1144}, \frac{9}{44}, \frac{525}{1144}, -\frac{459}{1144}, \frac{24}{143}, \frac{75}{572})$ $+ \frac{9}{286}\sqrt{1558}e^3 \otimes e_7$	{134, 167, 3569, 4579}
9521:12	$0, 0, 0, 0, \frac{12}{17}e^{12}, \frac{3}{17}\sqrt{11}e^{13}, \frac{3}{17}\sqrt{11}e^{14}, \frac{9}{17}e^{15},$ $\frac{6}{17}\sqrt{2}e^{18} + \frac{12}{17}e^{34}$	$(-\frac{3}{17}, \frac{9}{17}, 0, 0, \frac{6}{17}, -\frac{3}{17}, -\frac{3}{17}, \frac{3}{17}, 0)$ $+ \frac{3}{17}\sqrt{29}e^2 \otimes e_9$	{1234678, 128, 13569}
9521:13	$0, 0, 0, 0, \frac{33}{397}\sqrt{2}e^{12}, \frac{55}{794}\sqrt{42}e^{13}, \frac{11}{397}\sqrt{38}e^{14}, \frac{11}{794}\sqrt{730}e^{25},$ $\frac{11}{397}\sqrt{193}e^{28} + \frac{33}{794}\sqrt{22}e^{34}$	$(-\frac{110}{397}, \frac{77}{397}, \frac{66}{397}, \frac{55}{397}, -\frac{33}{397}, -\frac{44}{397}, -\frac{55}{397}, \frac{44}{397}, \frac{121}{397})$ $+ \frac{11}{397}\sqrt{449}e^2 \otimes e_6 + \frac{11}{794}\sqrt{986}e^3 \otimes e_7$	{156789, 36}
9521:13	$0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{3}{8}\sqrt{2}e^{13}, \frac{3}{8}\sqrt{2}e^{14}, \frac{1}{8}\sqrt{6}e^{25},$ $\frac{1}{4}\sqrt{6}e^{28} + \frac{1}{4}\sqrt{3}e^{34}$	$(\frac{1}{2}, -\frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{3}{8}, 0, -\frac{1}{4})$ $+ \frac{1}{8}\sqrt{78}e^1 \otimes e_9$	{12348, 12678, 23569}
9521:13	$0, 0, 0, 0, \frac{3}{266}\sqrt{122}e^{12}, \frac{9}{266}\sqrt{35}e^{13}, \frac{3}{266}\sqrt{51}e^{14}, \frac{3}{266}\sqrt{215}e^{25},$ $\frac{3}{133}\sqrt{83}e^{28} + \frac{9}{266}\sqrt{6}e^{34}$	$(\frac{6}{133}, -\frac{3}{133}, -\frac{18}{133}, \frac{15}{133}, \frac{3}{133}, -\frac{12}{133}, \frac{19}{133}, 0, -\frac{3}{133})$ $+ \frac{3}{266}\sqrt{419}e^1 \otimes e_9 + \frac{6}{133}\sqrt{33}e^2 \otimes e_6$	{12378, 259}
9521:13	$0, 0, 0, 0, \frac{2}{729}\sqrt{30295}e^{12}, \frac{2}{729}\sqrt{63510}e^{13}, \frac{2}{729}\sqrt{63510}e^{14},$ $\frac{4}{729}\sqrt{4015}e^{25}, \frac{2}{729}\sqrt{12045}e^{28} + \frac{4}{729}\sqrt{10585}e^{34}$	$(-\frac{133}{729}, \frac{46}{243}, \frac{439}{729}, -\frac{158}{729}, \frac{5}{729}, \frac{34}{81}, -\frac{97}{243}, \frac{143}{729}, \frac{281}{729})$ $+ \frac{2}{729}\sqrt{217905}e^3 \otimes e_7$	{134, 167, 35689, 45789}
9521:13	$0, 0, 0, 0, \frac{3}{74}\sqrt{2}e^{12}, \frac{9}{74}\sqrt{7}e^{13}, \frac{9}{74}\sqrt{7}e^{14}, \frac{3}{74}\sqrt{11}e^{25},$ $\frac{3}{37}\sqrt{11}e^{28} + \frac{3}{74}\sqrt{42}e^{34}$	$(\frac{6}{37}, -\frac{3}{37}, \frac{6}{37}, -\frac{9}{37}, \frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, 0, -\frac{3}{37})$ $+ \frac{3}{37}\sqrt{30}e^3 \otimes e_7 + \frac{3}{74}\sqrt{143}e^1 \otimes e_9$	{12348, 12678, 23569, 24579}
9521:13	$0, 0, 0, 0, \frac{3}{74}\sqrt{2}e^{12}, \frac{9}{74}\sqrt{7}e^{13}, \frac{9}{74}\sqrt{7}e^{14}, \frac{3}{74}\sqrt{11}e^{25},$ $\frac{3}{37}\sqrt{11}e^{28} + \frac{3}{74}\sqrt{42}e^{34}$	$(\frac{6}{37}, -\frac{3}{37}, \frac{6}{37}, -\frac{9}{37}, \frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, 0, -\frac{3}{37})$ $- \frac{3}{37}\sqrt{30}e^3 \otimes e_7 + \frac{3}{74}\sqrt{143}e^1 \otimes e_9$	{12348, 12678, 23569, 24579}
9521:13	$0, 0, 0, 0, \frac{26}{657}\sqrt{46}e^{12}, \frac{13}{657}\sqrt{321}e^{13}, \frac{13}{657}\sqrt{321}e^{14}, \frac{26}{657}\sqrt{10}e^{25},$ $\frac{13}{657}\sqrt{30}e^{28} + \frac{13}{657}\sqrt{214}e^{34}$	$(-\frac{169}{657}, \frac{13}{73}, \frac{91}{657}, \frac{91}{657}, -\frac{52}{657}, -\frac{26}{219}, -\frac{26}{219}, \frac{65}{657}, \frac{182}{657})$ $+ \frac{13}{657}\sqrt{597}e^3 \otimes e_7 + \frac{13}{657}\sqrt{597}e^4 \otimes e_6$	{134, 167, 35689}
9521:13	$0, 0, 0, 0, \frac{2}{2985}\sqrt{244281}e^{12}, \frac{2}{995}\sqrt{93603}e^{13}, \frac{8}{995}\sqrt{761}e^{14},$ $\frac{2}{2985}\sqrt{757195}e^{25}, \frac{2}{2985}\sqrt{805899}e^{28} + \frac{2}{995}\sqrt{43377}e^{34}$	$(-\frac{267}{995}, \frac{122}{597}, -\frac{37}{995}, \frac{76}{199}, -\frac{191}{2985}, -\frac{304}{995}, \frac{113}{995}, \frac{419}{2985}, \frac{343}{995})$ $+ \frac{2}{995}\sqrt{211558}e^2 \otimes e_6$	{1238, 15689, 2579, 367}
9521:13	$0, 0, 0, 0, \frac{26}{657}\sqrt{46}e^{12}, \frac{13}{657}\sqrt{321}e^{13}, \frac{13}{657}\sqrt{321}e^{14}, \frac{26}{657}\sqrt{10}e^{25},$ $\frac{13}{657}\sqrt{30}e^{28} + \frac{13}{657}\sqrt{214}e^{34}$	$(-\frac{169}{657}, \frac{13}{73}, \frac{91}{657}, \frac{91}{657}, -\frac{52}{657}, -\frac{26}{219}, -\frac{26}{219}, \frac{65}{657}, \frac{182}{657})$ $+ \frac{13}{657}\sqrt{597}e^3 \otimes e_7 - \frac{13}{657}\sqrt{597}e^4 \otimes e_6$	{134, 167, 35689}
9521:14	$0, 0, 0, 0, \frac{7}{211}\sqrt{390}e^{12}, \frac{21}{211}\sqrt{38}e^{13}, \frac{63}{211}\sqrt{2}e^{24}, \frac{7}{211}\sqrt{186}e^{15},$ $\frac{14}{211}\sqrt{69}e^{18} + \frac{7}{211}\sqrt{390}e^{34}$	$(-\frac{49}{211}, \frac{119}{211}, \frac{28}{211}, -\frac{56}{211}, \frac{70}{211}, -\frac{21}{211}, \frac{63}{211}, \frac{21}{211}, -\frac{28}{211})$ $+ \frac{35}{211}\sqrt{42}e^2 \otimes e_9$	{123468, 1278, 13569, 14579}
9521:14	$0, 0, 0, 0, \frac{7}{351}\sqrt{66}e^{12}, \frac{7}{351}\sqrt{222}e^{13}, \frac{14}{351}\sqrt{73}e^{24}, \frac{14}{351}\sqrt{19}e^{15},$ $\frac{7}{351}\sqrt{134}e^{18} + \frac{14}{117}\sqrt{3}e^{34}$	$(\frac{14}{117}, -\frac{77}{351}, -\frac{7}{117}, \frac{70}{351}, -\frac{35}{351}, \frac{7}{117}, -\frac{7}{351}, \frac{7}{351}, \frac{49}{351})$ $+ \frac{14}{117}\sqrt{7}e^4 \otimes e_6 + \frac{7}{117}\sqrt{42}e^1 \otimes e_7$	{123459, 2367}
9521:14	$0, 0, 0, 0, \frac{3}{187}\sqrt{182}e^{12}, \frac{9}{187}\sqrt{14}e^{13}, \frac{9}{187}\sqrt{70}e^{24}, \frac{6}{187}\sqrt{14}e^{15},$ $\frac{12}{187}\sqrt{14}e^{18} + \frac{3}{187}\sqrt{546}e^{34}$	$(-\frac{21}{187}, \frac{3}{11}, -\frac{27}{187}, \frac{15}{187}, \frac{30}{187}, -\frac{48}{187}, \frac{6}{17}, \frac{9}{187}, -\frac{12}{187})$ $+ \frac{12}{187}\sqrt{77}e^2 \otimes e_9 + \frac{6}{187}\sqrt{273}e^4 \otimes e_6$	{12348, 12678}
9521:14	$0, 0, 0, 0, \frac{7}{297}\sqrt{570}e^{12}, \frac{7}{297}\sqrt{1230}e^{13}, \frac{7}{297}\sqrt{1090}e^{24}, \frac{14}{297}\sqrt{65}e^{15},$ $\frac{28}{297}\sqrt{10}e^{18} + \frac{7}{99}\sqrt{30}e^{34}$	$(\frac{7}{99}, -\frac{7}{297}, \frac{49}{99}, -\frac{91}{297}, \frac{14}{297}, \frac{56}{99}, -\frac{98}{297}, \frac{35}{297}, \frac{56}{297})$ $+ \frac{14}{99}\sqrt{70}e^3 \otimes e_7$	{23468, 278, 3569, 4579}
9521:14	$0, 0, 0, 0, \frac{7}{99}\sqrt{30}e^{12}, \frac{7}{297}\sqrt{1230}e^{13}, \frac{7}{297}\sqrt{1090}e^{24}, \frac{14}{297}\sqrt{65}e^{15},$ $\frac{28}{297}\sqrt{10}e^{18} + \frac{7}{297}\sqrt{570}e^{34}$	$(-\frac{7}{33}, \frac{161}{297}, -\frac{7}{99}, -\frac{7}{297}, \frac{98}{297}, -\frac{28}{99}, \frac{14}{27}, \frac{35}{297}, -\frac{28}{297})$ $+ \frac{14}{99}\sqrt{70}e^2 \otimes e_6$	{1237, 15689, 2579, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:14	$0, 0, 0, 0, \frac{5}{207}\sqrt{42}e^{12}, \frac{1}{207}\sqrt{6510}e^{13}, \frac{1}{207}\sqrt{5530}e^{24}, \frac{2}{207}\sqrt{455}e^{15},$ $\frac{4}{207}\sqrt{70}e^{18} + \frac{5}{207}\sqrt{42}e^{34}$	$(-\frac{7}{69}, \frac{47}{207}, \frac{11}{69}, -\frac{49}{207}, \frac{26}{207}, \frac{4}{69}, -\frac{2}{207}, \frac{5}{207}, -\frac{16}{207})$ $+\frac{8}{207}\sqrt{105}e^2 \otimes e_6 + \frac{2}{207}\sqrt{105}e^3 \otimes e_7$	{1234589, 1467}
9521:14	$0, 0, 0, 0, \frac{21}{6109}\sqrt{1574}e^{12}, \frac{21}{6109}\sqrt{102}e^{13}, \frac{21}{6109}\sqrt{3714}e^{24},$ $\frac{84}{6109}\sqrt{155}e^{15}, \frac{84}{6109}\sqrt{230}e^{18} + \frac{21}{6109}\sqrt{498}e^{34}$	$(-\frac{147}{6109}, \frac{357}{6109}, \frac{21}{6109}, -\frac{945}{6109}, \frac{210}{6109}, \frac{714}{6109}, -\frac{588}{6109}, \frac{63}{6109}, -\frac{84}{6109})$ $+\frac{42}{6109}\sqrt{1169}e^2 \otimes e_9 + \frac{42}{6109}\sqrt{1554}e^1 \otimes e_7$	{12468, 1569}
9521:14	$0, 0, 0, 0, \frac{7}{297}\sqrt{570}e^{12}, \frac{7}{297}\sqrt{1230}e^{13}, \frac{7}{297}\sqrt{1090}e^{24}, \frac{14}{297}\sqrt{65}e^{15},$ $\frac{28}{297}\sqrt{10}e^{18} + \frac{7}{99}\sqrt{30}e^{34}$	$(\frac{7}{99}, -\frac{7}{297}, -\frac{35}{99}, \frac{161}{297}, \frac{14}{297}, -\frac{28}{99}, \frac{14}{27}, \frac{35}{297}, \frac{56}{297})$ $+\frac{14}{99}\sqrt{70}e^4 \otimes e_6$	{1347, 16, 3569, 4579}
9521:14	$0, 0, 0, 0, \frac{3}{187}\sqrt{182}e^{12}, \frac{9}{187}\sqrt{14}e^{13}, \frac{9}{187}\sqrt{70}e^{24}, \frac{6}{187}\sqrt{14}e^{15},$ $\frac{12}{187}\sqrt{14}e^{18} + \frac{3}{187}\sqrt{546}e^{34}$	$(-\frac{21}{187}, \frac{3}{11}, \frac{3}{11}, -\frac{63}{187}, \frac{30}{187}, \frac{30}{187}, -\frac{12}{187}, \frac{9}{187}, -\frac{12}{187})$ $+\frac{12}{187}\sqrt{77}e^2 \otimes e_9 - \frac{6}{187}\sqrt{273}e^3 \otimes e_7$	{12348, 12678, 1359, 145679}
9521:14	$0, 0, 0, 0, \frac{3}{187}\sqrt{182}e^{12}, \frac{9}{187}\sqrt{14}e^{13}, \frac{9}{187}\sqrt{70}e^{24}, \frac{6}{187}\sqrt{14}e^{15},$ $\frac{12}{187}\sqrt{14}e^{18} + \frac{3}{187}\sqrt{546}e^{34}$	$(-\frac{21}{187}, \frac{3}{11}, \frac{3}{11}, -\frac{63}{187}, \frac{30}{187}, \frac{30}{187}, -\frac{12}{187}, \frac{9}{187}, -\frac{12}{187})$ $+\frac{12}{187}\sqrt{77}e^2 \otimes e_9 + \frac{6}{187}\sqrt{273}e^3 \otimes e_7$	{12348, 12678, 1359, 145679}
9521:14	$0, 0, 0, 0, \frac{7}{2133}\sqrt{1002}e^{12}, \frac{35}{2133}\sqrt{78}e^{13}, \frac{7}{2133}\sqrt{1642}e^{24},$ $\frac{14}{2133}\sqrt{143}e^{15}, \frac{28}{2133}\sqrt{22}e^{18} + \frac{7}{711}\sqrt{38}e^{34}$	$(\frac{35}{711}, -\frac{203}{2133}, -\frac{7}{711}, \frac{133}{2133}, -\frac{98}{2133}, \frac{28}{711}, -\frac{70}{2133}, \frac{7}{2133}, \frac{112}{2133})$ $+\frac{28}{711}\sqrt{14}e^3 \otimes e_7 + \frac{28}{711}\sqrt{14}e^4 \otimes e_6$	{3569, 4579}
9521:14	$0, 0, 0, 0, \frac{7}{7029}\sqrt{354}e^{12}, \frac{7}{2343}\sqrt{510}e^{13}, \frac{7}{7029}\sqrt{5878}e^{24}, \frac{14}{7029}\sqrt{334}e^{15},$ $\frac{28}{7029}\sqrt{158}e^{18} + \frac{7}{7029}\sqrt{3930}e^{34}$	$(-\frac{35}{2343}, \frac{217}{7029}, \frac{91}{2343}, -\frac{371}{7029}, \frac{112}{7029}, \frac{56}{2343}, -\frac{14}{639}, \frac{7}{7029}, -\frac{98}{7029})$ $+\frac{14}{7029}\sqrt{1365}e^2 \otimes e_6 + \frac{28}{7029}\sqrt{462}e^1 \otimes e_7$	{1569, 25789}
9521:14	$0, 0, 0, 0, \frac{7}{1269}\sqrt{66}e^{12}, \frac{7}{1269}\sqrt{6270}e^{13}, \frac{56}{1269}\sqrt{187}e^{24}, \frac{28}{1269}\sqrt{451}e^{15},$ $\frac{7}{1269}\sqrt{9878}e^{18} + \frac{28}{423}\sqrt{55}e^{34}$	$(\frac{70}{423}, -\frac{343}{1269}, \frac{91}{423}, \frac{14}{1269}, -\frac{133}{1269}, \frac{161}{423}, -\frac{7}{27}, \frac{77}{1269}, \frac{287}{1269})$ $+\frac{7}{423}\sqrt{2618}e^1 \otimes e_7$	{123459, 138, 2367, 3456789}
9521:15	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{2}{7}e^{13}, \frac{2}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{6}e^{15},$ $\frac{1}{7}\sqrt{6}e^{18} + \frac{1}{7}\sqrt{6}e^{24}$	$(0, \frac{1}{7}, -\frac{1}{7}, 0, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7})$ $+\frac{2}{7}\sqrt{3}e^1 \otimes e_7$	{128, 159, 2456789, 467}
9521:15	$0, 0, 0, 0, \frac{1}{29}\sqrt{14}e^{12}, \frac{2}{87}\sqrt{15}e^{13}, \frac{1}{29}\sqrt{26}e^{34}, \frac{5}{87}\sqrt{6}e^{15},$ $\frac{2}{87}\sqrt{3}e^{18} + \frac{2}{87}\sqrt{30}e^{24}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{2}{29}, 0, -\frac{2}{29}, \frac{1}{29}, 0)$ $+\frac{1}{87}\sqrt{330}e^1 \otimes e_7 + \frac{2}{87}\sqrt{33}e^3 \otimes e_9$	{159, 2456789}
9521:15	$0, 0, 0, 0, \frac{10}{161}\sqrt{11}e^{12}, \frac{5}{161}\sqrt{106}e^{13}, \frac{5}{161}\sqrt{115}e^{34}, \frac{5}{161}\sqrt{15}e^{15},$ $\frac{5}{161}\sqrt{94}e^{18} + \frac{5}{161}\sqrt{193}e^{24}$	$(\frac{5}{161}, \frac{25}{161}, -\frac{40}{161}, \frac{15}{161}, \frac{30}{161}, -\frac{5}{23}, -\frac{25}{161}, \frac{5}{23}, \frac{40}{161})$ $+\frac{10}{161}\sqrt{69}e^2 \otimes e_7 + \frac{5}{161}\sqrt{307}e^4 \otimes e_6$	{1234, 3678}
9521:15	$0, 0, 0, 0, \frac{1}{29}\sqrt{42}e^{12}, \frac{2}{29}\sqrt{15}e^{13}, \frac{1}{29}\sqrt{78}e^{34}, \frac{3}{29}\sqrt{6}e^{15},$ $\frac{8}{29}e^{18} + \frac{6}{29}\sqrt{2}e^{24}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, 0, \frac{1}{29}, \frac{2}{29})$ $+\frac{2}{29}\sqrt{11}e^2 \otimes e_6 + \frac{3}{29}\sqrt{10}e^1 \otimes e_7$	{159, 2456789}
9521:15	$0, 0, 0, 0, \frac{5}{1203}\sqrt{36442}e^{12}, \frac{1}{1203}\sqrt{561974}e^{13}, \frac{1}{1203}\sqrt{895706}e^{34},$ $\frac{2}{1203}\sqrt{79597}e^{15}, \frac{4}{1203}\sqrt{2877}e^{18} + \frac{1}{1203}\sqrt{182210}e^{24}$	$(-\frac{119}{1203}, \frac{211}{401}, \frac{31}{1203}, -\frac{119}{401}, \frac{514}{1203}, -\frac{88}{1203}, -\frac{326}{1203}, \frac{395}{1203}, \frac{92}{401})$ $+\frac{2}{1203}\sqrt{478541}e^2 \otimes e_7$	{1289, 13567, 23458, 4679}
9521:15	$0, 0, 0, 0, \frac{8}{227}\sqrt{15}e^{12}, \frac{2}{227}\sqrt{422}e^{13}, \frac{2}{227}\sqrt{35}e^{34}, \frac{2}{227}\sqrt{123}e^{15},$ $\frac{2}{227}\sqrt{30}e^{18} + \frac{2}{227}\sqrt{381}e^{24}$	$(\frac{6}{227}, -\frac{22}{227}, \frac{4}{227}, \frac{18}{227}, -\frac{16}{227}, \frac{10}{227}, \frac{22}{227}, -\frac{10}{227}, -\frac{4}{227})$ $+\frac{2}{227}\sqrt{435}e^4 \otimes e_6 + \frac{4}{227}\sqrt{105}e^3 \otimes e_9$	{125689, 4579}
9521:15	$0, 0, 0, 0, \frac{3}{187}\sqrt{182}e^{12}, \frac{9}{187}\sqrt{14}e^{13}, \frac{3}{187}\sqrt{658}e^{34}, \frac{6}{187}\sqrt{14}e^{15},$ $\frac{12}{187}\sqrt{14}e^{18} + \frac{3}{187}\sqrt{518}e^{24}$	$(-\frac{21}{187}, \frac{3}{11}, \frac{3}{11}, -\frac{63}{187}, \frac{30}{187}, \frac{30}{187}, -\frac{12}{187}, \frac{9}{187}, -\frac{12}{187})$ $+\frac{12}{187}\sqrt{70}e^2 \otimes e_7 - \frac{6}{187}\sqrt{301}e^3 \otimes e_9$	{12348, 145679, 2589, 367}
9521:15	$0, 0, 0, 0, \frac{3}{187}\sqrt{182}e^{12}, \frac{9}{187}\sqrt{14}e^{13}, \frac{3}{187}\sqrt{658}e^{34}, \frac{6}{187}\sqrt{14}e^{15},$ $\frac{12}{187}\sqrt{14}e^{18} + \frac{3}{187}\sqrt{518}e^{24}$	$(-\frac{21}{187}, \frac{3}{11}, \frac{3}{11}, -\frac{63}{187}, \frac{30}{187}, \frac{30}{187}, -\frac{12}{187}, \frac{9}{187}, -\frac{12}{187})$ $+\frac{12}{187}\sqrt{70}e^2 \otimes e_7 + \frac{6}{187}\sqrt{301}e^3 \otimes e_9$	{12348, 145679, 2589, 367}
9521:15	$0, 0, 0, 0, \frac{1}{211}\sqrt{3570}e^{12}, \frac{1}{211}\sqrt{30702}e^{13}, \frac{5}{211}\sqrt{714}e^{34}, \frac{6}{211}\sqrt{238}e^{15},$ $\frac{4}{211}\sqrt{1190}e^{18} + \frac{3}{211}\sqrt{3094}e^{24}$	$(-\frac{7}{211}, \frac{79}{211}, -\frac{33}{211}, -\frac{21}{211}, \frac{72}{211}, -\frac{40}{211}, -\frac{54}{211}, \frac{65}{211}, \frac{58}{211})$ $+\frac{2}{211}\sqrt{11305}e^2 \otimes e_6$	{12347, 145689, 2579, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:15	$0, 0, 0, 0, \frac{1}{47}\sqrt{714}e^{12}, \frac{1}{47}\sqrt{1022}e^{13}, \frac{1}{47}\sqrt{434}e^{34}, \frac{2}{47}\sqrt{42}e^{15},$ $\frac{4}{47}\sqrt{42}e^{18} + \frac{1}{47}\sqrt{966}e^{24}$	$(-\frac{21}{235}, \frac{19}{235}, \frac{131}{235}, -\frac{63}{235}, -\frac{2}{235}, \frac{22}{47}, \frac{68}{235}, -\frac{23}{235}, -\frac{44}{235})$ $+ \frac{6}{47}\sqrt{77}e^3 \otimes e_9$	{123458, 14679, 289, 3567}
9521:16	$0, 0, 0, 0, \frac{28}{177}\sqrt{2}e^{12}, \frac{7}{177}\sqrt{59}e^{13}, \frac{35}{177}\sqrt{3}e^{34}, \frac{14}{177}\sqrt{3}e^{25},$ $\frac{7}{177}\sqrt{70}e^{14} + \frac{7}{177}\sqrt{22}e^{28}$	$(\frac{7}{59}, \frac{7}{177}, -\frac{49}{177}, \frac{7}{59}, \frac{28}{177}, -\frac{28}{177}, -\frac{28}{177}, \frac{35}{177}, \frac{14}{59})$ $+ \frac{7}{177}\sqrt{151}e^4 \otimes e_6 + \frac{7}{177}\sqrt{167}e^1 \otimes e_7$	{12689, 13458, 23567, 479}
9521:16	$0, 0, 0, 0, \frac{6}{433}\sqrt{1015}e^{12}, \frac{10}{433}\sqrt{870}e^{13}, \frac{1}{433}\sqrt{68730}e^{34}, \frac{2}{433}\sqrt{5655}e^{25},$ $\frac{24}{433}\sqrt{145}e^{14} + \frac{1}{433}\sqrt{435}e^{28}$	$(-\frac{76}{433}, \frac{86}{433}, -\frac{101}{433}, \frac{258}{433}, \frac{10}{433}, -\frac{177}{433}, \frac{157}{433}, \frac{96}{433}, \frac{182}{433})$ $+ \frac{5}{433}\sqrt{12354}e^4 \otimes e_6$	{12569, 134, 23678, 45789}
9521:16	$0, 0, 0, 0, \frac{28}{177}\sqrt{2}e^{12}, \frac{7}{177}\sqrt{59}e^{13}, \frac{35}{177}\sqrt{3}e^{34}, \frac{14}{177}\sqrt{3}e^{25},$ $\frac{7}{177}\sqrt{70}e^{14} + \frac{7}{177}\sqrt{22}e^{28}$	$(\frac{7}{59}, \frac{7}{177}, -\frac{49}{177}, \frac{7}{59}, \frac{28}{177}, -\frac{28}{177}, -\frac{28}{177}, \frac{35}{177}, \frac{14}{59})$ $- \frac{7}{177}\sqrt{151}e^4 \otimes e_6 + \frac{7}{177}\sqrt{167}e^1 \otimes e_7$	{12689, 13458, 23567, 479}
9521:16	$0, 0, 0, 0, \frac{153}{1669}\sqrt{2}e^{12}, \frac{18}{1669}\sqrt{5}e^{13}, \frac{9}{1669}\sqrt{1282}e^{34}, \frac{27}{1669}\sqrt{86}e^{25},$ $\frac{36}{1669}\sqrt{33}e^{14} + \frac{18}{1669}\sqrt{274}e^{28}$	$(\frac{153}{1669}, -\frac{63}{1669}, \frac{45}{1669}, -\frac{189}{1669}, \frac{90}{1669}, \frac{198}{1669}, -\frac{144}{1669}, \frac{27}{1669}, -\frac{36}{1669})$ $+ \frac{18}{1669}\sqrt{254}e^3 \otimes e_9 + \frac{9}{1669}\sqrt{1946}e^2 \otimes e_7$	{1456789, 259}
9521:16	$0, 0, 0, 0, \frac{1}{1767}\sqrt{523770}e^{12}, \frac{2}{1767}\sqrt{48585}e^{13}, \frac{1}{1767}\sqrt{665970}e^{34},$ $\frac{1}{1767}\sqrt{465310}e^{25}, \frac{2}{1767}\sqrt{101910}e^{14} + \frac{10}{589}\sqrt{474}e^{28}$	$(\frac{117}{589}, -\frac{25}{1767}, -\frac{115}{589}, \frac{25}{589}, \frac{326}{1767}, \frac{2}{589}, -\frac{140}{589}, \frac{301}{1767}, \frac{92}{589})$ $+ \frac{5}{1767}\sqrt{47874}e^2 \otimes e_7$	{128, 145789, 2569, 467}
9521:16	$0, 0, 0, 0, \frac{8}{179}\sqrt{51}e^{12}, \frac{8}{179}\sqrt{13}e^{13}, \frac{4}{179}\sqrt{303}e^{34}, \frac{4}{179}\sqrt{199}e^{25},$ $\frac{4}{179}\sqrt{141}e^{14} + \frac{4}{179}\sqrt{178}e^{28}$	$(\frac{20}{179}, \frac{4}{179}, -\frac{40}{179}, \frac{12}{179}, \frac{24}{179}, -\frac{20}{179}, -\frac{28}{179}, \frac{28}{179}, \frac{32}{179})$ $+ \frac{4}{179}\sqrt{119}e^4 \otimes e_6 + \frac{4}{179}\sqrt{506}e^2 \otimes e_7$	{145789, 2569}
9521:16	$0, 0, 0, 0, \frac{3}{74}\sqrt{2}e^{12}, \frac{9}{74}\sqrt{7}e^{13}, \frac{12}{74}e^{34}, \frac{3}{74}\sqrt{11}e^{25},$ $\frac{3}{74}\sqrt{41}e^{14} + \frac{3}{37}\sqrt{11}e^{28}$	$(\frac{6}{37}, -\frac{3}{37}, \frac{6}{37}, -\frac{9}{37}, \frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, 0, -\frac{3}{37})$ $+ \frac{33}{74}e^1 \otimes e_7 + \frac{3}{74}\sqrt{142}e^3 \otimes e_9$	{12348, 15689, 24579, 367}
9521:16	$0, 0, 0, 0, \frac{3}{74}\sqrt{2}e^{12}, \frac{9}{74}\sqrt{7}e^{13}, \frac{12}{74}e^{34}, \frac{3}{74}\sqrt{11}e^{25},$ $\frac{3}{74}\sqrt{41}e^{14} + \frac{3}{37}\sqrt{11}e^{28}$	$(\frac{6}{37}, -\frac{3}{37}, \frac{6}{37}, -\frac{9}{37}, \frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, 0, -\frac{3}{37})$ $+ \frac{33}{74}e^1 \otimes e_7 - \frac{3}{74}\sqrt{142}e^3 \otimes e_9$	{12348, 15689, 24579, 367}
9521:16	$0, 0, 0, 0, \frac{11}{713}\sqrt{266}e^{12}, \frac{11}{713}\sqrt{394}e^{13}, \frac{33}{713}\sqrt{29}e^{34}, \frac{33}{713}\sqrt{5}e^{25},$ $\frac{11}{713}\sqrt{249}e^{14} + \frac{11}{713}\sqrt{290}e^{28}$	$(-\frac{121}{713}, \frac{33}{713}, \frac{99}{713}, \frac{99}{713}, -\frac{88}{713}, -\frac{22}{713}, \frac{198}{713}, -\frac{55}{713}, -\frac{22}{713})$ $+ \frac{11}{713}\sqrt{573}e^4 \otimes e_6 + \frac{11}{713}\sqrt{718}e^3 \otimes e_9$	{12569, 134, 23678, 45789}
9521:16	$0, 0, 0, 0, \frac{11}{221}\sqrt{190}e^{12}, \frac{1}{221}\sqrt{9215}e^{13}, \frac{1}{221}\sqrt{20710}e^{34}, \frac{1}{221}\sqrt{5035}e^{25},$ $\frac{19}{221}\sqrt{35}e^{14} + \frac{6}{221}\sqrt{190}e^{28}$	$(\frac{103}{221}, -\frac{16}{221}, -\frac{3}{17}, -\frac{48}{221}, \frac{87}{221}, \frac{64}{221}, -\frac{87}{221}, \frac{71}{221}, \frac{55}{221})$ $+ \frac{5}{221}\sqrt{2755}e^1 \otimes e_7$	{12689, 13458, 23567, 479}
9521:16	$0, 0, 0, 0, \frac{3}{149}\sqrt{410}e^{12}, \frac{2}{447}\sqrt{15990}e^{13}, \frac{1}{149}\sqrt{410}e^{34}, \frac{1}{447}\sqrt{61090}e^{25},$ $\frac{1}{447}\sqrt{45510}e^{14} + \frac{1}{447}\sqrt{65190}e^{28}$	$(-\frac{18}{149}, \frac{58}{447}, -\frac{31}{149}, \frac{58}{149}, \frac{4}{447}, -\frac{49}{149}, \frac{27}{447}, \frac{62}{149}, \frac{40}{149})$ $+ \frac{25}{447}\sqrt{246}e^2 \otimes e_6$	{12378, 1456789, 259, 346}
9521:16	$0, 0, 0, 0, \frac{7}{533}e^{12}, \frac{7}{533}\sqrt{358}e^{13}, \frac{7}{533}\sqrt{93}e^{34}, \frac{42}{533}\sqrt{6}e^{25},$ $\frac{7}{533}\sqrt{102}e^{14} + \frac{7}{533}\sqrt{389}e^{28}$	$(-\frac{70}{533}, \frac{21}{533}, \frac{42}{533}, \frac{63}{533}, -\frac{49}{533}, -\frac{28}{533}, \frac{105}{533}, -\frac{28}{533}, -\frac{7}{533})$ $+ \frac{21}{533}\sqrt{59}e^2 \otimes e_6 + \frac{7}{533}\sqrt{418}e^3 \otimes e_9$	{12378, 1456789, 259, 346}
9521:16	$0, 0, 0, 0, \frac{7}{533}e^{12}, \frac{7}{533}\sqrt{358}e^{13}, \frac{7}{533}\sqrt{93}e^{34}, \frac{42}{533}\sqrt{6}e^{25},$ $\frac{7}{533}\sqrt{102}e^{14} + \frac{7}{533}\sqrt{389}e^{28}$	$(-\frac{70}{533}, \frac{21}{533}, \frac{42}{533}, \frac{63}{533}, -\frac{49}{533}, -\frac{28}{533}, \frac{105}{533}, -\frac{28}{533}, -\frac{7}{533})$ $+ \frac{21}{533}\sqrt{59}e^2 \otimes e_6 - \frac{7}{533}\sqrt{418}e^3 \otimes e_9$	{12378, 1456789, 259, 346}
9521:16	$0, 0, 0, 0, \frac{2}{881}\sqrt{54290}e^{12}, \frac{1}{881}\sqrt{319030}e^{13}, \frac{5}{881}\sqrt{8418}e^{34},$ $\frac{3}{881}\sqrt{6710}e^{25}, \frac{2}{881}\sqrt{31110}e^{14} + \frac{2}{881}\sqrt{97295}e^{28}$	$(-\frac{37}{881}, -\frac{42}{881}, \frac{447}{881}, -\frac{126}{881}, -\frac{79}{881}, \frac{410}{881}, \frac{321}{881}, -\frac{121}{881}, -\frac{163}{881})$ $+ \frac{5}{881}\sqrt{35746}e^3 \otimes e_9$	{12569, 134, 23678, 45789}
9521:16	$0, 0, 0, 0, \frac{11}{713}\sqrt{266}e^{12}, \frac{11}{713}\sqrt{394}e^{13}, \frac{33}{713}\sqrt{29}e^{34}, \frac{33}{713}\sqrt{5}e^{25},$ $\frac{11}{713}\sqrt{249}e^{14} + \frac{11}{713}\sqrt{290}e^{28}$	$(-\frac{121}{713}, \frac{33}{713}, \frac{99}{713}, \frac{99}{713}, -\frac{88}{713}, -\frac{22}{713}, \frac{198}{713}, -\frac{55}{713}, -\frac{22}{713})$ $- \frac{11}{713}\sqrt{573}e^4 \otimes e_6 + \frac{11}{713}\sqrt{718}e^3 \otimes e_9$	{12569, 134, 23678, 45789}
9521:17	$0, 0, 0, 0, \frac{4}{313}\sqrt{1695}e^{12}, \frac{4}{313}\sqrt{339}e^{13}, \frac{2}{313}\sqrt{15594}e^{23}, \frac{3}{313}\sqrt{1582}e^{15},$ $\frac{6}{313}\sqrt{113}e^{18} + \frac{1}{313}\sqrt{57630}e^{24}$	$(\frac{76}{313}, -\frac{82}{313}, -\frac{29}{313}, \frac{228}{313}, -\frac{6}{313}, \frac{47}{313}, -\frac{111}{313}, \frac{70}{313}, \frac{146}{313})$ $+ \frac{6}{313}\sqrt{4859}e^4 \otimes e_7$	{12579, 13678, 234, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:17	$0, 0, 0, 0, \frac{88}{547}\sqrt{2}e^{12}, \frac{132}{547}e^{13}, \frac{44}{547}\sqrt{42}e^{23}, \frac{66}{547}e^{15},$ $\frac{22}{547}\sqrt{105}e^{18} + \frac{22}{547}\sqrt{39}e^{24}$	$(-\frac{55}{547}, \frac{77}{547}, \frac{154}{547}, -\frac{165}{547}, \frac{22}{547}, \frac{99}{547}, \frac{231}{547}, -\frac{33}{547}, -\frac{88}{547})$ $+ \frac{22}{547}\sqrt{295}e^3 \otimes e_9 + \frac{66}{547}\sqrt{21}e^2 \otimes e_4$	{125679, 4589}
9521:17	$0, 0, 0, 0, \frac{10}{241}\sqrt{62}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{5}{241}\sqrt{262}e^{23}, \frac{10}{241}\sqrt{6}e^{15},$ $\frac{10}{241}\sqrt{35}e^{18} + \frac{15}{241}\sqrt{30}e^{24}$	$(\frac{15}{241}, -\frac{50}{241}, \frac{45}{241}, \frac{45}{241}, -\frac{35}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{20}{241}, -\frac{5}{241})$ $- \frac{5}{241}\sqrt{366}e^4 \otimes e_7 + \frac{5}{241}\sqrt{514}e^3 \otimes e_9$	{123458, 1469, 2789, 3567}
9521:17	$0, 0, 0, 0, \frac{10}{241}\sqrt{62}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{5}{241}\sqrt{262}e^{23}, \frac{10}{241}\sqrt{6}e^{15},$ $\frac{10}{241}\sqrt{35}e^{18} + \frac{15}{241}\sqrt{30}e^{24}$	$(\frac{15}{241}, -\frac{50}{241}, \frac{45}{241}, \frac{45}{241}, -\frac{35}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{20}{241}, -\frac{5}{241})$ $+ \frac{5}{241}\sqrt{366}e^4 \otimes e_7 + \frac{5}{241}\sqrt{514}e^3 \otimes e_9$	{123458, 1469, 2789, 3567}
9521:17	$0, 0, 0, 0, \frac{4}{31}\sqrt{15}e^{12}, \frac{2}{31}\sqrt{138}e^{13}, \frac{2}{31}\sqrt{15}e^{23}, \frac{6}{31}\sqrt{3}e^{15},$ $\frac{6}{31}\sqrt{10}e^{18} + \frac{2}{31}\sqrt{129}e^{24}$	$(-\frac{2}{31}, \frac{14}{31}, -\frac{8}{31}, -\frac{6}{31}, \frac{12}{31}, -\frac{10}{31}, \frac{6}{31}, \frac{10}{31}, \frac{8}{31})$ $+ \frac{6}{31}\sqrt{35}e^2 \otimes e_6$	{1234, 145689, 2579, 3678}
9521:17	$0, 0, 0, 0, \frac{5}{239}\sqrt{30}e^{12}, \frac{1}{239}\sqrt{1542}e^{13}, \frac{3}{239}\sqrt{30}e^{23}, \frac{6}{239}\sqrt{13}e^{15},$ $\frac{3}{239}\sqrt{30}e^{18} + \frac{3}{239}\sqrt{154}e^{24}$	$(\frac{7}{239}, -\frac{19}{239}, \frac{8}{239}, \frac{21}{239}, -\frac{12}{239}, \frac{15}{239}, -\frac{11}{239}, -\frac{5}{239}, \frac{2}{239})$ $+ \frac{10}{239}\sqrt{15}e^4 \otimes e_6 + \frac{1}{239}\sqrt{1230}e^3 \otimes e_9$	{125689, 4579}
9521:17	$0, 0, 0, 0, \frac{10}{931}\sqrt{247}e^{12}, \frac{20}{931}\sqrt{47}e^{13}, \frac{10}{931}\sqrt{381}e^{23}, \frac{20}{931}\sqrt{65}e^{15},$ $\frac{20}{931}\sqrt{67}e^{18} + \frac{10}{931}\sqrt{271}e^{24}$	$(\frac{5}{931}, \frac{65}{931}, -\frac{110}{931}, \frac{15}{931}, \frac{10}{931}, -\frac{15}{931}, -\frac{45}{931}, \frac{75}{931}, \frac{80}{931})$ $+ \frac{10}{931}\sqrt{339}e^2 \otimes e_4 + \frac{10}{931}\sqrt{509}e^1 \otimes e_7$	{12368, 347}
9521:17	$0, 0, 0, 0, \frac{6}{2453}\sqrt{107027}e^{12}, \frac{6}{2453}\sqrt{86591}e^{13}, \frac{6}{2453}\sqrt{124057}e^{23},$ $\frac{18}{2453}\sqrt{5109}e^{15}, \frac{12}{2453}\sqrt{8515}e^{18} + \frac{24}{2453}\sqrt{4454}e^{24}$	$(-\frac{375}{2453}, \frac{1233}{2453}, \frac{106}{2453}, -\frac{1125}{2453}, \frac{78}{223}, -\frac{269}{2453}, \frac{1339}{2453}, \frac{483}{2453}, \frac{108}{2453})$ $+ \frac{18}{2453}\sqrt{29999}e^2 \otimes e_4$	{12368, 1278, 347, 46}
9521:17	$0, 0, 0, 0, \frac{2}{109}\sqrt{517}e^{12}, \frac{2}{109}\sqrt{329}e^{13}, \frac{2}{109}\sqrt{1034}e^{23}, \frac{1}{109}\sqrt{3854}e^{15},$ $\frac{2}{109}\sqrt{1034}e^{18} + \frac{1}{109}\sqrt{2914}e^{24}$	$(\frac{16}{109}, -\frac{18}{109}, -\frac{13}{109}, \frac{48}{109}, -\frac{2}{109}, \frac{3}{109}, -\frac{31}{109}, \frac{14}{109}, \frac{30}{109})$ $+ \frac{2}{109}\sqrt{2162}e^1 \otimes e_7$	{12368, 159, 2456789, 347}
9521:17	$0, 0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{10}e^{13}, \frac{2}{37}\sqrt{39}e^{23}, \frac{2}{37}\sqrt{29}e^{15},$ $\frac{2}{37}\sqrt{22}e^{18} + \frac{2}{37}\sqrt{7}e^{24}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{6}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $- \frac{2}{37}\sqrt{51}e^2 \otimes e_6 + \frac{8}{37}\sqrt{5}e^1 \otimes e_7$	{1238, 1569, 245789, 3467}
9521:17	$0, 0, 0, 0, \frac{4}{37}\sqrt{7}e^{12}, \frac{2}{37}\sqrt{10}e^{13}, \frac{2}{37}\sqrt{39}e^{23}, \frac{2}{37}\sqrt{29}e^{15},$ $\frac{2}{37}\sqrt{22}e^{18} + \frac{2}{37}\sqrt{7}e^{24}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{8}{37}, \frac{6}{37}, \frac{4}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{8}{37})$ $+ \frac{2}{37}\sqrt{51}e^2 \otimes e_6 + \frac{8}{37}\sqrt{5}e^1 \otimes e_7$	{1238, 1569, 245789, 3467}
9521:17	$0, 0, 0, 0, \frac{10}{209}\sqrt{170}e^{12}, \frac{6}{209}\sqrt{442}e^{13}, \frac{2}{209}\sqrt{3570}e^{23}, \frac{12}{209}\sqrt{17}e^{15},$ $\frac{2}{209}\sqrt{3570}e^{18} + \frac{2}{209}\sqrt{3774}e^{24}$	$(-\frac{8}{209}, -\frac{14}{209}, \frac{98}{209}, -\frac{24}{209}, -\frac{2}{209}, \frac{90}{19}, \frac{84}{209}, -\frac{30}{209}, -\frac{2}{11})$ $+ \frac{2}{209}\sqrt{12070}e^3 \otimes e_9$	{123458, 1469, 2789, 3567}
9521:17	$0, 0, 0, 0, \frac{1}{19}\sqrt{6}e^{12}, \frac{4}{19}\sqrt{3}e^{13}, \frac{1}{19}\sqrt{33}e^{23}, \frac{3}{19}e^{15},$ $\frac{6}{19}e^{18} + \frac{5}{19}\sqrt{3}e^{24}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, -\frac{3}{19}, \frac{4}{19}, \frac{5}{19})$ $+ \frac{3}{19}\sqrt{10}e^4 \otimes e_7 + \frac{3}{19}\sqrt{13}e^2 \otimes e_6$	{1234, 145689, 2579, 3678}
9521:17	$0, 0, 0, 0, \frac{1}{19}\sqrt{6}e^{12}, \frac{4}{19}\sqrt{3}e^{13}, \frac{1}{19}\sqrt{33}e^{23}, \frac{3}{19}e^{15},$ $\frac{6}{19}e^{18} + \frac{5}{19}\sqrt{3}e^{24}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, -\frac{3}{19}, \frac{4}{19}, \frac{5}{19})$ $- \frac{3}{19}\sqrt{10}e^4 \otimes e_7 + \frac{3}{19}\sqrt{13}e^2 \otimes e_6$	{1234, 145689, 2579, 3678}
9521:17	$0, 0, 0, 0, \frac{1}{73}\sqrt{962}e^{12}, \frac{1}{73}\sqrt{3774}e^{13}, \frac{2}{73}\sqrt{481}e^{23}, \frac{1}{73}\sqrt{1110}e^{15},$ $\frac{2}{73}\sqrt{481}e^{18} + \frac{2}{73}\sqrt{851}e^{24}$	$(\frac{9}{73}, -\frac{1}{73}, -\frac{19}{73}, \frac{27}{73}, \frac{8}{73}, -\frac{10}{73}, -\frac{20}{73}, \frac{17}{73}, \frac{26}{73})$ $+ \frac{1}{73}\sqrt{4958}e^4 \otimes e_6$	{125689, 167, 248, 4579}
9521:18	$0, 0, 0, 0, \frac{66}{5437}\sqrt{921}e^{12}, \frac{66}{5437}\sqrt{574}e^{13}, \frac{165}{5437}\sqrt{130}e^{14},$ $\frac{66}{5437}\sqrt{694}e^{15}, \frac{33}{5437}\sqrt{1934}e^{18} + \frac{33}{5437}\sqrt{1158}e^{23}$	$(-\frac{33}{5437}, \frac{957}{5437}, -\frac{99}{5437}, -\frac{1122}{5437}, \frac{924}{5437}, -\frac{132}{5437}, -\frac{1155}{5437}, \frac{891}{5437}, \frac{858}{5437})$ $+ \frac{330}{5437}\sqrt{35}e^2 \otimes e_6 + \frac{33}{5437}\sqrt{6434}e^1 \otimes e_4$	{1569, 346}
9521:18	$0, 0, 0, 0, \frac{9}{905}\sqrt{370}e^{12}, \frac{18}{905}\sqrt{55}e^{13}, \frac{9}{905}\sqrt{2090}e^{14}, \frac{18}{181}\sqrt{3}e^{15},$ $\frac{36}{181}e^{18} + \frac{18}{905}\sqrt{770}e^{23}$	$(-\frac{63}{905}, \frac{153}{905}, -\frac{189}{905}, \frac{369}{905}, \frac{18}{181}, -\frac{252}{905}, \frac{306}{905}, \frac{27}{905}, -\frac{36}{905})$ $+ \frac{9}{905}\sqrt{3270}e^2 \otimes e_6 + \frac{9}{905}\sqrt{4810}e^4 \otimes e_9$	{13679, 4567}
9521:18	$0, 0, 0, 0, \frac{43}{5589}\sqrt{418}e^{12}, \frac{43}{5589}\sqrt{438}e^{13}, \frac{86}{5589}\sqrt{1187}e^{14},$ $\frac{43}{5589}\sqrt{1426}e^{15}, \frac{344}{5589}\sqrt{39}e^{18} + \frac{86}{5589}\sqrt{698}e^{23}$	$(-\frac{43}{621}, \frac{1763}{5589}, -\frac{43}{207}, \frac{301}{5589}, \frac{1376}{5589}, -\frac{172}{621}, -\frac{86}{5589}, \frac{43}{243}, \frac{602}{5589})$ $+ \frac{43}{5589}\sqrt{4442}e^4 \otimes e_6 + \frac{86}{5589}\sqrt{1457}e^2 \otimes e_7$	{1234, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:18	$0, 0, 0, 0, \frac{1}{124}\sqrt{4929}e^{12}, \frac{1}{124}\sqrt{2226}e^{13}, \frac{5}{62}\sqrt{53}e^{14}, \frac{1}{124}\sqrt{5406}e^{15},$ $\frac{1}{124}\sqrt{4929}e^{18} + \frac{1}{124}\sqrt{3498}e^{23}$	$(\frac{9}{124}, \frac{3}{248}, \frac{27}{124}, -\frac{11}{31}, \frac{21}{248}, \frac{9}{31}, -\frac{35}{124}, \frac{39}{248}, \frac{57}{248})$ $+ \frac{1}{124}\sqrt{11554}e^1 \otimes e_4$	{1268, 1569, 2345689, 346}
9521:18	$0, 0, 0, 0, \frac{7}{253}\sqrt{34}e^{12}, \frac{28}{1265}\sqrt{230}e^{13}, \frac{7}{253}\sqrt{138}e^{14}, \frac{7}{1265}\sqrt{2090}e^{15},$ $\frac{14}{1265}\sqrt{815}e^{18} + \frac{14}{1265}\sqrt{1090}e^{23}$	$(-\frac{7}{1265}, \frac{217}{1265}, -\frac{21}{1265}, -\frac{259}{1265}, \frac{42}{253}, -\frac{28}{1265}, -\frac{266}{1265}, \frac{203}{1265}, \frac{196}{1265})$ $+ \frac{14}{1265}\sqrt{1205}e^2 \otimes e_6 + \frac{7}{1265}\sqrt{6970}e^3 \otimes e_7$	{167, 3569}
9521:18	$0, 0, 0, 0, \frac{2}{17}\sqrt{78}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{4}{17}\sqrt{26}e^{14}, \frac{2}{17}\sqrt{78}e^{15},$ $\frac{2}{17}\sqrt{78}e^{18} + \frac{2}{17}\sqrt{78}e^{23}$	$(0, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{118}e^1 \otimes e_4 + \frac{6}{17}\sqrt{10}e^3 \otimes e_7$	{128, 159}
9521:18	$0, 0, 0, 0, \frac{1}{40}\sqrt{7}e^{12}, \frac{1}{120}\sqrt{85}e^{13}, \frac{1}{120}\sqrt{115}e^{14}, \frac{1}{15}e^{15},$ $\frac{1}{40}\sqrt{7}e^{18} + \frac{1}{60}\sqrt{15}e^{23}$	$(-\frac{1}{120}, \frac{11}{240}, -\frac{1}{40}, -\frac{1}{40}, \frac{3}{80}, -\frac{1}{30}, -\frac{1}{30}, \frac{7}{240}, \frac{1}{48})$ $+ \frac{1}{120}\sqrt{101}e^4 \otimes e_6 + \frac{1}{120}\sqrt{131}e^3 \otimes e_7$	{1256789, 167, 2368, 3569}
9521:18	$0, 0, 0, 0, \frac{25}{313}\sqrt{42}e^{12}, \frac{20}{313}\sqrt{15}e^{13}, \frac{25}{313}\sqrt{26}e^{14}, \frac{40}{313}\sqrt{15}e^{15},$ $\frac{60}{313}\sqrt{5}e^{18} + \frac{5}{313}\sqrt{330}e^{23}$	$(\frac{15}{313}, \frac{30}{313}, \frac{45}{313}, -\frac{110}{313}, \frac{45}{313}, \frac{60}{313}, -\frac{95}{313}, \frac{60}{313}, \frac{75}{313})$ $+ \frac{10}{313}\sqrt{165}e^2 \otimes e_7 + \frac{5}{313}\sqrt{2110}e^1 \otimes e_4$	{1268, 2345689}
9521:18	$0, 0, 0, 0, \frac{1}{596}\sqrt{111435}e^{12}, \frac{13}{596}\sqrt{690}e^{13}, \frac{21}{298}\sqrt{115}e^{14}, \frac{3}{298}\sqrt{2530}e^{15},$ $\frac{1}{596}\sqrt{111435}e^{18} + \frac{25}{298}\sqrt{69}e^{23}$	$(\frac{59}{596}, -\frac{43}{1192}, \frac{177}{596}, -\frac{227}{596}, \frac{75}{298}, \frac{59}{298}, -\frac{42}{149}, \frac{193}{1192}, \frac{311}{1192})$ $+ \frac{23}{596}\sqrt{690}e^3 \otimes e_7$	{1256789, 167, 2368, 3569}
9521:18	$0, 0, 0, 0, \frac{12}{2501}\sqrt{12065}e^{12}, \frac{6}{2501}\sqrt{51395}e^{13}, \frac{12}{2501}\sqrt{24985}e^{14},$ $\frac{18}{2501}\sqrt{570}e^{15}, \frac{12}{2501}\sqrt{13490}e^{18} + \frac{6}{2501}\sqrt{98230}e^{23}$	$(-\frac{48}{2501}, \frac{959}{2501}, -\frac{144}{2501}, -\frac{703}{2501}, \frac{911}{2501}, -\frac{192}{2501}, -\frac{751}{2501}, \frac{863}{2501}, \frac{815}{2501})$ $+ \frac{12}{2501}\sqrt{51110}e^2 \otimes e_7$	{12346, 1356789, 2569, 4678}
9521:18	$0, 0, 0, 0, \frac{12}{2501}\sqrt{13490}e^{12}, \frac{6}{2501}\sqrt{51395}e^{13}, \frac{12}{2501}\sqrt{24985}e^{14},$ $\frac{18}{2501}\sqrt{570}e^{15}, \frac{12}{2501}\sqrt{12065}e^{18} + \frac{6}{2501}\sqrt{98230}e^{23}$	$(-\frac{48}{2501}, -\frac{117}{2501}, -\frac{144}{2501}, \frac{1449}{2501}, -\frac{165}{2501}, -\frac{192}{2501}, \frac{1401}{2501}, -\frac{213}{2501}, -\frac{261}{2501})$ $+ \frac{12}{2501}\sqrt{51110}e^4 \otimes e_9$	{1234568, 13679, 2689, 4567}
9521:18	$0, 0, 0, 0, \frac{2}{2529}\sqrt{757945}e^{12}, \frac{2}{2529}\sqrt{779635}e^{13}, \frac{2}{2529}\sqrt{161470}e^{14},$ $\frac{4}{843}\sqrt{1205}e^{15}, \frac{2}{2529}\sqrt{521765}e^{18} + \frac{2}{2529}\sqrt{677210}e^{23}$	$(-\frac{268}{2529}, \frac{446}{843}, -\frac{268}{843}, \frac{539}{2529}, \frac{1070}{2529}, -\frac{1072}{2529}, \frac{271}{2529}, \frac{802}{2529}, \frac{178}{843})$ $+ \frac{4}{843}\sqrt{71095}e^2 \otimes e_6$	{123, 12347, 2459, 2579}
9521:18	$0, 0, 0, 0, \frac{1}{40}\sqrt{7}e^{12}, \frac{1}{120}\sqrt{85}e^{13}, \frac{1}{120}\sqrt{115}e^{14}, \frac{1}{15}e^{15},$ $\frac{1}{40}\sqrt{7}e^{18} + \frac{1}{60}\sqrt{15}e^{23}$	$(-\frac{1}{120}, \frac{11}{240}, -\frac{1}{40}, -\frac{1}{40}, \frac{3}{80}, -\frac{1}{30}, -\frac{1}{30}, \frac{7}{240}, \frac{1}{48})$ $- \frac{1}{120}\sqrt{101}e^4 \otimes e_6 + \frac{1}{120}\sqrt{131}e^3 \otimes e_7$	{1256789, 167, 2368, 3569}
9521:18	$0, 0, 0, 0, \frac{1}{145}\sqrt{410}e^{12}, \frac{2}{87}\sqrt{6}e^{13}, \frac{1}{435}\sqrt{6330}e^{14}, \frac{1}{145}\sqrt{230}e^{15},$ $\frac{2}{435}\sqrt{195}e^{18} + \frac{2}{435}\sqrt{1410}e^{23}$	$(\frac{11}{435}, -\frac{41}{435}, \frac{11}{145}, \frac{7}{435}, -\frac{2}{29}, \frac{44}{435}, \frac{6}{145}, -\frac{19}{435}, -\frac{8}{435})$ $+ \frac{1}{435}\sqrt{6510}e^3 \otimes e_7 + \frac{2}{435}\sqrt{1455}e^4 \otimes e_9$	{1256789, 3569}
9521:18	$0, 0, 0, 0, \frac{1}{596}\sqrt{112515}e^{12}, \frac{1}{298}\sqrt{64047}e^{13}, \frac{1}{596}\sqrt{266574}e^{14},$ $\frac{7}{298}\sqrt{35774}e^{15}, \frac{1}{596}\sqrt{112515}e^{18} + \frac{3}{298}\sqrt{577}e^{23}$	$(-\frac{53}{596}, \frac{321}{1192}, -\frac{159}{596}, \frac{365}{596}, \frac{215}{1192}, -\frac{53}{149}, \frac{78}{149}, \frac{109}{1192}, \frac{3}{1192})$ $+ \frac{1}{596}\sqrt{594310}e^4 \otimes e_6$	{1256789, 167, 2368, 3569}
9521:19	$0, 0, 0, 0, \frac{17}{2967}\sqrt{526}e^{12}, \frac{17}{8901}\sqrt{8886}e^{13}, \frac{34}{8901}\sqrt{1927}e^{14},$ $\frac{17}{8901}\sqrt{2654}e^{15}, \frac{68}{8901}\sqrt{55}e^{18} + \frac{238}{8901}\sqrt{3}e^{23}$	$(\frac{17}{989}, -\frac{17}{207}, \frac{51}{989}, \frac{901}{8901}, -\frac{578}{8901}, \frac{68}{989}, \frac{170}{8901}, -\frac{425}{8901}, -\frac{272}{8901})$ $+ \frac{17}{989}\sqrt{106}e^4 \otimes e_6 + \frac{34}{8901}\sqrt{2073}e^3 \otimes e_7$	{1234589, 4579}
9521:19	$0, 0, 0, 0, \frac{7}{2463}\sqrt{46}e^{12}, \frac{7}{7389}\sqrt{5118}e^{13}, \frac{14}{7389}\sqrt{1621}e^{14},$ $\frac{7}{7389}\sqrt{1270}e^{15}, \frac{14}{7389}\sqrt{707}e^{18} + \frac{14}{7389}\sqrt{1065}e^{23}$	$(\frac{7}{821}, -\frac{287}{7389}, \frac{21}{821}, \frac{301}{7389}, -\frac{224}{7389}, \frac{28}{821}, \frac{14}{7389}, -\frac{161}{7389}, -\frac{98}{7389})$ $+ \frac{14}{7389}\sqrt{1923}e^1 \otimes e_7 + \frac{35}{2463}\sqrt{26}e^4 \otimes e_6$	{123459, 45789}
9521:19	$0, 0, 0, 0, \frac{49}{4973}\sqrt{354}e^{12}, \frac{98}{4973}\sqrt{339}e^{13}, \frac{49}{4973}\sqrt{922}e^{14},$ $\frac{98}{4973}\sqrt{30}e^{15}, \frac{49}{4973}\sqrt{1182}e^{18} + \frac{196}{4973}\sqrt{177}e^{23}$	$(\frac{294}{4973}, \frac{441}{4973}, \frac{882}{4973}, -\frac{1960}{4973}, \frac{735}{4973}, \frac{1176}{4973}, -\frac{1519}{4973}, \frac{1029}{4973}, \frac{1323}{4973})$ $+ \frac{49}{4973}\sqrt{3994}e^2 \otimes e_4 + \frac{98}{4973}\sqrt{1239}e^3 \otimes e_7$	{2579, 478}
9521:19	$0, 0, 0, 0, \frac{21}{680}\sqrt{767}e^{12}, \frac{7}{340}\sqrt{897}e^{13}, \frac{7}{680}\sqrt{3770}e^{14}, \frac{91}{340}\sqrt{3}e^{15},$ $\frac{21}{680}\sqrt{286}e^{18} + \frac{21}{680}\sqrt{767}e^{23}$	$(-\frac{21}{1360}, \frac{147}{340}, -\frac{63}{1360}, -\frac{343}{680}, \frac{567}{1360}, -\frac{21}{340}, -\frac{49}{680}, \frac{273}{680}, \frac{105}{272})$ $+ \frac{7}{170}\sqrt{949}e^2 \otimes e_4$	{1289, 145, 2358, 349}
9521:19	$0, 0, 0, 0, \frac{3}{53}\sqrt{10}e^{12}, \frac{6}{53}\sqrt{5}e^{13}, \frac{3}{53}\sqrt{61}e^{14}, \frac{3}{53}e^{15},$ $\frac{6}{53}\sqrt{6}e^{18} + \frac{3}{53}\sqrt{39}e^{23}$	$(-\frac{3}{53}, \frac{6}{53}, -\frac{9}{53}, \frac{15}{53}, \frac{3}{53}, -\frac{12}{53}, \frac{21}{53}, 0, -\frac{3}{53})$ $+ \frac{21}{53}\sqrt{2}e^4 \otimes e_9 + \frac{3}{53}\sqrt{91}e^2 \otimes e_6$	{14678, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:19	$0, 0, 0, 0, \frac{4}{939}\sqrt{20539}e^{12}, \frac{2}{2817}\sqrt{1229097}e^{13}, \frac{2}{2817}\sqrt{1074514}e^{24},$ $\frac{22}{2817}\sqrt{2162}e^{15}, \frac{2}{2817}\sqrt{202147}e^{18} + \frac{2}{2817}\sqrt{561039}e^{23}$	$(\frac{43}{313}, -\frac{418}{2817}, \frac{129}{313}, -\frac{583}{2817}, -\frac{31}{2817}, \frac{172}{313}, -\frac{1001}{2817}, \frac{356}{2817}, \frac{743}{2817})$ $+ \frac{2}{2817}\sqrt{2600886}e^3 \otimes e_7$	{1256789, 1467, 23468, 3569}
9521:19	$0, 0, 0, 0, \frac{4}{1011}\sqrt{6479}e^{12}, \frac{2}{3033}\sqrt{337497}e^{13}, \frac{2}{3033}\sqrt{691486}e^{24},$ $\frac{4}{3033}\sqrt{120745}e^{15}, \frac{2}{3033}\sqrt{578987}e^{18} + \frac{2}{3033}\sqrt{521265}e^{23}$	$(\frac{29}{337}, -\frac{214}{3033}, \frac{87}{337}, -\frac{703}{3033}, \frac{47}{3033}, \frac{116}{337}, -\frac{917}{3033}, \frac{308}{3033}, \frac{569}{3033})$ $+ \frac{2}{3033}\sqrt{1509018}e^1 \otimes e_7$	{12468, 1569, 2356789, 3467}
9521:19	$0, 0, 0, 0, \frac{1}{12}\sqrt{2}e^{12}, \frac{1}{6}\sqrt{3}e^{13}, \frac{1}{36}\sqrt{85}e^{24}, \frac{1}{36}\sqrt{29}e^{15},$ $\frac{1}{18}\sqrt{10}e^{18} + \frac{1}{36}\sqrt{51}e^{23}$	$(0, \frac{1}{9}, 0, -\frac{2}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{36}\sqrt{129}e^2 \otimes e_6 + \frac{1}{36}\sqrt{138}e^3 \otimes e_7$	{1467, 3569}
9521:19	$0, 0, 0, 0, \frac{10}{241}\sqrt{62}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{10}{241}\sqrt{85}e^{24}, \frac{10}{241}\sqrt{6}e^{15},$ $\frac{10}{241}\sqrt{35}e^{18} + \frac{40}{241}\sqrt{3}e^{23}$	$(\frac{15}{241}, -\frac{50}{241}, \frac{45}{241}, \frac{45}{241}, -\frac{35}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{20}{241}, -\frac{5}{241})$ $- \frac{10}{241}\sqrt{109}e^4 \otimes e_9 + \frac{10}{241}\sqrt{111}e^3 \otimes e_7$	{123458, 139, 2789, 457}
9521:19	$0, 0, 0, 0, \frac{10}{241}\sqrt{62}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{10}{241}\sqrt{85}e^{24}, \frac{10}{241}\sqrt{6}e^{15},$ $\frac{10}{241}\sqrt{35}e^{18} + \frac{40}{241}\sqrt{3}e^{23}$	$(\frac{15}{241}, -\frac{50}{241}, \frac{45}{241}, \frac{45}{241}, -\frac{35}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{20}{241}, -\frac{5}{241})$ $+ \frac{10}{241}\sqrt{109}e^4 \otimes e_9 + \frac{10}{241}\sqrt{111}e^3 \otimes e_7$	{123458, 139, 2789, 457}
9521:19	$0, 0, 0, 0, \frac{525}{3557}\sqrt{6}e^{12}, \frac{70}{3557}\sqrt{183}e^{13}, \frac{35}{3557}\sqrt{1810}e^{24},$ $\frac{70}{3557}\sqrt{417}e^{15}, \frac{105}{3557}\sqrt{174}e^{18} + \frac{210}{3557}\sqrt{29}e^{23}$	$(\frac{210}{3557}, \frac{105}{3557}, \frac{630}{3557}, -\frac{1120}{3557}, \frac{315}{3557}, \frac{840}{3557}, -\frac{1015}{3557}, \frac{525}{3557}, \frac{735}{3557})$ $+ \frac{210}{3557}\sqrt{133}e^1 \otimes e_7 + \frac{35}{3557}\sqrt{1378}e^2 \otimes e_4$	{2356789, 3467}
9521:19	$0, 0, 0, 0, \frac{2}{729}\sqrt{34770}e^{12}, \frac{2}{729}\sqrt{64965}e^{13}, \frac{2}{729}\sqrt{50935}e^{24},$ $\frac{2}{729}\sqrt{9455}e^{15}, \frac{2}{729}\sqrt{32635}e^{18} + \frac{2}{729}\sqrt{34770}e^{23}$	$(-\frac{23}{243}, \frac{334}{729}, -\frac{23}{81}, -\frac{47}{729}, \frac{265}{729}, -\frac{92}{243}, \frac{287}{729}, \frac{196}{729}, \frac{127}{729})$ $+ \frac{2}{729}\sqrt{185745}e^2 \otimes e_6$	{1234, 1237, 2459, 2579}
9521:19	$0, 0, 0, 0, \frac{101}{684}\sqrt{15}e^{12}, \frac{1}{342}\sqrt{89385}e^{13}, \frac{1}{684}\sqrt{332290}e^{24},$ $\frac{1}{171}\sqrt{5555}e^{15}, \frac{1}{684}\sqrt{13130}e^{18} + \frac{101}{684}\sqrt{15}e^{23}$	$(-\frac{25}{456}, \frac{16}{171}, -\frac{25}{152}, \frac{355}{684}, \frac{53}{1368}, -\frac{25}{114}, \frac{419}{684}, -\frac{11}{684}, -\frac{97}{1368})$ $+ \frac{1}{114}\sqrt{16665}e^4 \otimes e_6$	{125678, 169, 236789, 356}
9521:19	$0, 0, 0, 0, \frac{16}{2921}\sqrt{11210}e^{12}, \frac{2}{2921}\sqrt{299307}e^{13}, \frac{8}{2921}\sqrt{69502}e^{24},$ $\frac{2}{2921}\sqrt{275766}e^{15}, \frac{2}{2921}\sqrt{1211801}e^{18} + \frac{6}{2921}\sqrt{72865}e^{23}$	$(\frac{51}{2921}, -\frac{466}{2921}, \frac{153}{2921}, \frac{1929}{2921}, -\frac{415}{2921}, \frac{204}{2921}, \frac{1463}{2921}, -\frac{364}{2921}, -\frac{313}{2921})$ $+ \frac{70}{2921}\sqrt{2242}e^4 \otimes e_9$	{12579, 1478, 234, 3589}
9521:19	$0, 0, 0, 0, \frac{1}{21}\sqrt{14}e^{12}, \frac{1}{63}\sqrt{210}e^{13}, \frac{1}{126}\sqrt{1162}e^{24}, \frac{1}{18}\sqrt{10}e^{15},$ $\frac{1}{63}\sqrt{119}e^{18} + \frac{1}{126}\sqrt{462}e^{23}$	$(0, \frac{1}{9}, 0, -\frac{2}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{126}\sqrt{1218}e^2 \otimes e_6 + \frac{1}{63}\sqrt{483}e^1 \otimes e_7$	{1569, 3467}
9521:20	$0, 0, 0, 0, -\frac{36}{343}\sqrt{3}e^{12}, \frac{18}{343}\sqrt{210}e^{13}, \frac{18}{343}\sqrt{210}e^{14} + \frac{27}{343}\sqrt{74}e^{23},$ $\frac{18}{343}\sqrt{123}e^{15}, \frac{27}{343}\sqrt{74}e^{18} + \frac{9}{343}\sqrt{570}e^{34}$	$(-\frac{45}{343}, \frac{153}{343}, -\frac{90}{343}, \frac{108}{343}, \frac{108}{343}, -\frac{135}{343}, \frac{9}{49}, \frac{9}{49}, \frac{18}{343})$ $+ \frac{27}{343}\sqrt{206}e^4 \otimes e_6$	{134, 167, 3569, 4579, 134, 167, 3569, 4579}
9521:20	$0, 0, 0, 0, \frac{36}{343}\sqrt{3}e^{12}, \frac{18}{343}\sqrt{210}e^{13}, \frac{18}{343}\sqrt{210}e^{14} + \frac{27}{343}\sqrt{74}e^{23},$ $\frac{18}{343}\sqrt{123}e^{15}, \frac{27}{343}\sqrt{74}e^{18} + \frac{9}{343}\sqrt{570}e^{34}$	$(-\frac{45}{343}, \frac{153}{343}, -\frac{90}{343}, \frac{108}{343}, \frac{108}{343}, -\frac{135}{343}, \frac{9}{49}, \frac{9}{49}, \frac{18}{343})$ $+ \frac{27}{343}\sqrt{206}e^4 \otimes e_6$	{134, 167, 3569, 4579, 134, 167, 3569, 4579}
9521:21	$0, 0, 0, 0, -\frac{26}{665}\sqrt{69}e^{12}, \frac{234}{665}\sqrt{3}e^{13}, \frac{156}{665}e^{14} + \frac{52}{665}\sqrt{5}e^{23},$ $\frac{26}{665}\sqrt{215}e^{25}, \frac{26}{665}\sqrt{231}e^{28} + \frac{78}{665}\sqrt{13}e^{34}$	$(-\frac{169}{665}, \frac{26}{133}, -\frac{39}{665}, \frac{52}{133}, -\frac{39}{665}, -\frac{208}{665}, \frac{13}{95}, \frac{13}{95}, \frac{221}{665})$ $+ \frac{78}{665}\sqrt{62}e^2 \otimes e_6$	{1238, 15689, 2579, 367, 1238, 15689, 2579, 367}
9521:21	$0, 0, 0, 0, \frac{26}{665}\sqrt{69}e^{12}, \frac{234}{665}\sqrt{3}e^{13}, \frac{156}{665}e^{14} + \frac{52}{665}\sqrt{5}e^{23},$ $\frac{26}{665}\sqrt{215}e^{25}, \frac{26}{665}\sqrt{231}e^{28} + \frac{78}{665}\sqrt{13}e^{34}$	$(-\frac{169}{665}, \frac{26}{133}, -\frac{39}{665}, \frac{52}{133}, -\frac{39}{665}, -\frac{208}{665}, \frac{13}{95}, \frac{13}{95}, \frac{221}{665})$ $+ \frac{78}{665}\sqrt{62}e^2 \otimes e_6$	{1238, 15689, 2579, 367, 1238, 15689, 2579, 367}
9521:21	$0, 0, 0, 0, -\frac{17}{325}\sqrt{55}e^{12}, \frac{17}{325}\sqrt{186}e^{13}, \frac{17}{325}\sqrt{186}e^{14} + \frac{17}{325}\sqrt{163}e^{23},$ $\frac{34}{325}\sqrt{23}e^{25}, \frac{17}{325}\sqrt{69}e^{28} + \frac{34}{325}\sqrt{31}e^{34}$	$(-\frac{102}{325}, \frac{17}{65}, -\frac{17}{325}, \frac{34}{65}, -\frac{17}{325}, -\frac{119}{325}, \frac{68}{325}, \frac{68}{325}, \frac{153}{325})$ $+ \frac{17}{325}\sqrt{537}e^4 \otimes e_6$	{134, 167, 35689, 45789, 134, 167, 35689, 45789}
9521:21	$0, 0, 0, 0, \frac{17}{325}\sqrt{55}e^{12}, \frac{17}{325}\sqrt{186}e^{13}, \frac{17}{325}\sqrt{186}e^{14} + \frac{17}{325}\sqrt{163}e^{23},$ $\frac{34}{325}\sqrt{23}e^{25}, \frac{17}{325}\sqrt{69}e^{28} + \frac{34}{325}\sqrt{31}e^{34}$	$(-\frac{102}{325}, \frac{17}{65}, -\frac{17}{325}, \frac{34}{65}, -\frac{17}{325}, -\frac{119}{325}, \frac{68}{325}, \frac{68}{325}, \frac{153}{325})$ $+ \frac{17}{325}\sqrt{537}e^4 \otimes e_6$	{134, 167, 35689, 45789, 134, 167, 35689, 45789}
9521:22	$0, 0, 0, 0, \frac{2}{27}\sqrt{6}e^{12}, \frac{5}{27}\sqrt{3}e^{14} - \frac{2}{9}\sqrt{2}e^{23},$ $\frac{5}{27}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{2}e^{24}, \frac{1}{27}\sqrt{57}e^{15}, \frac{4}{27}\sqrt{6}e^{18}$	$(-\frac{1}{27}, -\frac{1}{27}, \frac{4}{27}, \frac{4}{27}, -\frac{2}{27}, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{4}{27})$ $+ \frac{1}{27}\sqrt{141}e^2 \otimes e_9$	{12378, 1345679, 159, 12378, 1345679, 159}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:22	$0, 0, 0, 0, \frac{2}{27}\sqrt{6}e^{12}, \frac{5}{27}\sqrt{3}e^{14} + \frac{2}{9}\sqrt{2}e^{23},$ $\frac{5}{27}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{2}e^{24}, \frac{1}{27}\sqrt{57}e^{15}, \frac{4}{27}\sqrt{6}e^{18}$	$(-\frac{1}{27}, -\frac{1}{27}, \frac{4}{27}, \frac{4}{27}, -\frac{2}{27}, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{4}{27})$ $+ \frac{1}{27}\sqrt{141}e^2 \otimes e_9$	{12378, 1345679, 159, 12378, 1345679, 159}
9521:23	$0, 0, 0, 0, \frac{37}{6181}\sqrt{4710}e^{12}, \frac{37}{6181}\sqrt{6006}e^{34},$ $\frac{74}{6181}\sqrt{106}e^{13} + \frac{74}{6181}\sqrt{411}e^{24}, \frac{37}{6181}\sqrt{4262}e^{15}, \frac{1332}{6181}\sqrt{3}e^{18} + \frac{74}{6181}\sqrt{897}e^{23}$	$(-\frac{37}{6181}, \frac{1147}{6181}, -\frac{111}{6181}, -\frac{185}{883}, \frac{1110}{6181}, -\frac{1406}{6181}, -\frac{148}{6181}, \frac{1073}{6181}, \frac{148}{883})$ $+ \frac{37}{6181}\sqrt{10590}e^1 \otimes e_6$	{128, 235689}
9521:23	$0, 0, 0, 0, \frac{13}{381}\sqrt{110}e^{12}, \frac{13}{762}\sqrt{894}e^{34}, \frac{221}{381}e^{13} + \frac{13}{762}\sqrt{1114}e^{24},$ $\frac{13}{762}\sqrt{538}e^{15}, \frac{13}{381}\sqrt{353}e^{18} + \frac{13}{381}\sqrt{102}e^{23}$	$(\frac{13}{381}, -\frac{26}{127}, \frac{13}{127}, \frac{130}{381}, -\frac{65}{381}, \frac{169}{381}, \frac{52}{381}, -\frac{52}{381}, -\frac{13}{127})$ $+ \frac{13}{762}\sqrt{2590}e^4 \otimes e_9$	{234, 35689}
9521:24	$0, 0, 0, 0, \frac{12}{2527}\sqrt{7201}e^{12}, \frac{24}{2527}\sqrt{13265}e^{13}, \frac{4}{2527}\sqrt{111047}e^{34},$ $\frac{12}{2527}\sqrt{17813}e^{15}, \frac{4}{2527}\sqrt{138714}e^{18} + \frac{4}{2527}\sqrt{147810}e^{25}$	$(\frac{81}{2527}, \frac{162}{2527}, \frac{1560}{2527}, -\frac{1472}{2527}, \frac{243}{2527}, \frac{1641}{2527}, \frac{88}{2527}, \frac{324}{2527}, \frac{405}{2527})$ $+ \frac{4}{2527}\sqrt{813334}e^3 \otimes e_4$	{13, 146, 3569, 459}
9521:24	$0, 0, 0, 0, \frac{86}{8667}\sqrt{46}e^{12}, \frac{430}{8667}\sqrt{57}e^{13}, \frac{43}{8667}\sqrt{3878}e^{34},$ $\frac{86}{8667}\sqrt{699}e^{15}, \frac{86}{8667}\sqrt{202}e^{18} + \frac{86}{8667}\sqrt{1057}e^{25}$	$(-\frac{86}{2889}, -\frac{172}{2889}, \frac{559}{8667}, \frac{2150}{8667}, -\frac{86}{963}, \frac{301}{8667}, \frac{301}{963}, -\frac{344}{2889}, -\frac{430}{2889})$ $+ \frac{43}{8667}\sqrt{6638}e^4 \otimes e_6 + \frac{86}{8667}\sqrt{2289}e^3 \otimes e_9$	{123458, 24789}
9521:24	$0, 0, 0, 0, \frac{28}{3565}\sqrt{137}e^{12}, \frac{28}{3565}\sqrt{173}e^{13}, \frac{14}{3565}\sqrt{1419}e^{34},$ $\frac{14}{3565}\sqrt{1061}e^{15}, \frac{56}{3565}\sqrt{82}e^{18} + \frac{14}{3565}\sqrt{227}e^{25}$	$(\frac{7}{713}, \frac{14}{713}, -\frac{336}{3565}, \frac{273}{3565}, \frac{21}{713}, -\frac{301}{3565}, -\frac{63}{3565}, \frac{28}{713}, \frac{35}{713})$ $+ \frac{14}{3565}\sqrt{1301}e^4 \otimes e_9 + \frac{14}{3565}\sqrt{1873}e^1 \otimes e_7$	{123468, 235789}
9521:24	$0, 0, 0, 0, \frac{1554}{4187}e^{12}, \frac{111}{4187}\sqrt{58}e^{13}, \frac{74}{4187}\sqrt{649}e^{34}, \frac{74}{4187}\sqrt{771}e^{15},$ $\frac{296}{4187}\sqrt{39}e^{18} + \frac{74}{4187}\sqrt{366}e^{25}$	$(\frac{222}{4187}, \frac{444}{4187}, \frac{111}{4187}, -\frac{1258}{4187}, \frac{666}{4187}, \frac{333}{4187}, -\frac{1147}{4187}, \frac{888}{4187}, \frac{1110}{4187})$ $+ \frac{37}{4187}\sqrt{6078}e^1 \otimes e_7 + \frac{74}{4187}\sqrt{277}e^3 \otimes e_4$	{235789, 2456789}
9521:24	$0, 0, 0, 0, \frac{435}{3239}\sqrt{6}e^{12}, \frac{87}{3239}\sqrt{230}e^{13}, \frac{116}{3239}\sqrt{6}e^{34}, \frac{464}{3239}\sqrt{6}e^{15},$ $\frac{290}{3239}\sqrt{14}e^{18} + \frac{29}{3239}\sqrt{3138}e^{25}$	$(\frac{58}{3239}, \frac{116}{3239}, -\frac{783}{3239}, \frac{1131}{3239}, \frac{174}{3239}, -\frac{725}{3239}, \frac{348}{3239}, \frac{232}{3239}, \frac{290}{3239})$ $+ \frac{29}{3239}\sqrt{1758}e^4 \otimes e_9 + \frac{58}{3239}\sqrt{1030}e^2 \otimes e_6$	{15689, 3468}
9521:24	$0, 0, 0, 0, \frac{82}{6499}\sqrt{930}e^{12}, \frac{328}{6499}\sqrt{2}e^{13}, \frac{41}{6499}\sqrt{4290}e^{34},$ $\frac{82}{6499}\sqrt{235}e^{15}, \frac{82}{6499}\sqrt{545}e^{18} + \frac{82}{6499}\sqrt{1019}e^{25}$	$(\frac{328}{6499}, \frac{656}{6499}, -\frac{1517}{6499}, \frac{492}{6499}, \frac{984}{6499}, -\frac{1189}{6499}, -\frac{1025}{6499}, \frac{1312}{6499}, \frac{1640}{6499})$ $+ \frac{41}{6499}\sqrt{3890}e^4 \otimes e_6 + \frac{82}{6499}\sqrt{1931}e^2 \otimes e_7$	{3678, 478}
9521:24	$0, 0, 0, 0, \frac{2}{2789}\sqrt{245379}e^{12}, \frac{2}{2789}\sqrt{732405}e^{13}, \frac{4}{2789}\sqrt{155811}e^{34},$ $\frac{2}{2789}\sqrt{10885}e^{15}, \frac{2}{2789}\sqrt{418917}e^{18} + \frac{4}{2789}\sqrt{214590}e^{25}$	$(-\frac{106}{2789}, -\frac{212}{2789}, \frac{1336}{2789}, -\frac{223}{2789}, -\frac{318}{2789}, \frac{1230}{2789}, \frac{1113}{2789}, -\frac{424}{2789}, -\frac{530}{2789})$ $+ \frac{4}{2789}\sqrt{546738}e^3 \otimes e_9$	{123458, 123578, 24789, 289}
9521:24	$0, 0, 0, 0, \frac{5}{1417}\sqrt{2046}e^{12}, \frac{1}{1417}\sqrt{624030}e^{13}, \frac{2}{1417}\sqrt{293601}e^{34},$ $\frac{2}{1417}\sqrt{43989}e^{15}, \frac{2}{1417}\sqrt{240405}e^{18} + \frac{2}{1417}\sqrt{587202}e^{25}$	$(-\frac{36}{1417}, -\frac{72}{1417}, -\frac{29}{1417}, \frac{843}{1417}, -\frac{108}{1417}, -\frac{5}{109}, \frac{814}{1417}, -\frac{144}{1417}, -\frac{180}{1417})$ $+ \frac{11}{1417}\sqrt{19902}e^4 \otimes e_9$	{135679, 159, 34, 467}
9521:24	$0, 0, 0, 0, \frac{4}{2791}\sqrt{202935}e^{12}, \frac{4}{2791}\sqrt{70742}e^{13}, \frac{20}{2791}\sqrt{7009}e^{34},$ $\frac{4}{2791}\sqrt{15485}e^{15}, \frac{4}{2791}\sqrt{83130}e^{18} + \frac{8}{2791}\sqrt{46129}e^{25}$	$(\frac{207}{2791}, \frac{414}{2791}, -\frac{228}{2791}, -\frac{662}{2791}, \frac{621}{2791}, -\frac{21}{2791}, -\frac{890}{2791}, \frac{828}{2791}, \frac{1035}{2791})$ $+ \frac{4}{2791}\sqrt{387614}e^2 \otimes e_7$	{1356789, 145789, 378, 4678}
9521:24	$0, 0, 0, 0, \frac{17}{7525}\sqrt{3806}e^{12}, \frac{34}{7525}\sqrt{727}e^{13}, \frac{17}{7525}\sqrt{5986}e^{34},$ $\frac{17}{7525}\sqrt{194}e^{15}, \frac{17}{7525}\sqrt{538}e^{18} + \frac{17}{7525}\sqrt{4902}e^{25}$	$(\frac{17}{1505}, \frac{34}{1505}, -\frac{119}{1075}, \frac{102}{1075}, \frac{51}{1505}, -\frac{748}{7525}, -\frac{17}{1075}, \frac{68}{1505}, \frac{17}{301})$ $+ \frac{17}{7525}\sqrt{6002}e^4 \otimes e_9 + \frac{34}{7525}\sqrt{1909}e^2 \otimes e_7$	{129, 2345}
9521:24	$0, 0, 0, 0, \frac{76}{1451}\sqrt{51}e^{12}, \frac{19}{1451}\sqrt{570}e^{13}, \frac{76}{1451}\sqrt{21}e^{34}, \frac{38}{1451}\sqrt{39}e^{15},$ $\frac{38}{1451}\sqrt{29}e^{18} + \frac{114}{1451}\sqrt{15}e^{25}$	$(\frac{76}{1451}, \frac{152}{1451}, -\frac{285}{1451}, 0, \frac{228}{1451}, -\frac{209}{1451}, -\frac{285}{1451}, \frac{304}{1451}, \frac{380}{1451})$ $+ \frac{38}{1451}\sqrt{331}e^2 \otimes e_6 + \frac{57}{1451}\sqrt{138}e^1 \otimes e_7$	{123489, 24578}
9521:24	$0, 0, 0, 0, \frac{2}{1359}\sqrt{22485}e^{12}, \frac{1}{1359}\sqrt{1304130}e^{13}, \frac{2}{1359}\sqrt{230846}e^{34},$ $\frac{1}{453}\sqrt{38974}e^{15}, \frac{1}{1359}\sqrt{320786}e^{18} + \frac{2}{1359}\sqrt{115423}e^{25}$	$(\frac{19}{453}, \frac{38}{453}, -\frac{505}{1359}, \frac{1051}{1359}, \frac{19}{151}, -\frac{448}{1359}, \frac{182}{453}, \frac{76}{453}, \frac{95}{453})$ $+ \frac{1}{1359}\sqrt{3360758}e^4 \otimes e_6$	{134, 16, 35679, 4579}
9521:24	$0, 0, 0, 0, \frac{46}{5891}\sqrt{319}e^{12}, \frac{115}{5891}\sqrt{10}e^{13}, \frac{1426}{5891}e^{34}, \frac{46}{5891}\sqrt{615}e^{15},$ $\frac{46}{5891}\sqrt{863}e^{18} + \frac{230}{5891}e^{25}$	$(\frac{46}{5891}, \frac{92}{5891}, \frac{759}{5891}, -\frac{1242}{5891}, \frac{138}{5891}, \frac{805}{5891}, -\frac{483}{5891}, \frac{184}{5891}, \frac{230}{5891})$ $+ \frac{23}{5891}\sqrt{6170}e^1 \otimes e_7 + \frac{46}{5891}\sqrt{1063}e^3 \otimes e_9$	{12348, 245789}
9521:24	$0, 0, 0, 0, \frac{50}{6391}\sqrt{634}e^{12}, \frac{50}{6391}\sqrt{146}e^{13}, \frac{25}{6391}\sqrt{4066}e^{34},$ $\frac{25}{6391}\sqrt{1410}e^{15}, \frac{100}{6391}\sqrt{34}e^{18} + \frac{100}{6391}\sqrt{307}e^{25}$	$(\frac{50}{6391}, \frac{100}{6391}, \frac{125}{913}, -\frac{200}{913}, \frac{150}{6391}, \frac{925}{6391}, -\frac{75}{913}, \frac{200}{6391}, \frac{250}{6391})$ $+ \frac{25}{6391}\sqrt{5134}e^3 \otimes e_9 + \frac{25}{6391}\sqrt{6382}e^2 \otimes e_7$	{1456789, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:24	$0, 0, 0, 0, \frac{16}{1463}\sqrt{1545}e^{12}, \frac{2}{1463}\sqrt{61285}e^{13}, \frac{9}{1463}\sqrt{7210}e^{34}, \frac{1}{1463}\sqrt{697310}e^{15}, \frac{3}{1463}\sqrt{62830}e^{18} + \frac{10}{1463}\sqrt{3399}e^{25}$	$(\frac{13}{209}, \frac{26}{209}, -\frac{93}{1463}, -\frac{331}{1463}, \frac{39}{209}, -\frac{2}{1463}, -\frac{424}{1463}, \frac{52}{209}, \frac{65}{209}) + \frac{1}{1463}\sqrt{1263810}e^1 \otimes e_7$	{123468, 128, 235789, 2456789}
9521:24	$0, 0, 0, 0, \frac{2}{745}\sqrt{366}e^{12}, \frac{2}{745}\sqrt{1398}e^{13}, \frac{4}{745}\sqrt{6}e^{34}, \frac{2}{745}\sqrt{906}e^{15}, \frac{2}{149}\sqrt{26}e^{18} + \frac{12}{745}\sqrt{42}e^{25}$	$(-\frac{4}{745}, -\frac{8}{745}, -\frac{12}{745}, \frac{54}{745}, -\frac{12}{745}, -\frac{16}{745}, \frac{42}{745}, -\frac{16}{745}, -\frac{4}{149}) + \frac{18}{745}\sqrt{14}e^3 \otimes e_9 + \frac{2}{745}\sqrt{1654}e^2 \otimes e_6$	{145689, 156789, 34678, 368}
9521:24	$0, 0, 0, 0, \frac{2}{745}\sqrt{366}e^{12}, \frac{2}{745}\sqrt{1398}e^{13}, \frac{4}{745}\sqrt{6}e^{34}, \frac{2}{745}\sqrt{906}e^{15}, \frac{2}{149}\sqrt{26}e^{18} + \frac{12}{745}\sqrt{42}e^{25}$	$(-\frac{4}{745}, -\frac{8}{745}, -\frac{12}{745}, \frac{54}{745}, -\frac{12}{745}, -\frac{16}{745}, \frac{42}{745}, -\frac{16}{745}, -\frac{4}{149}) - \frac{18}{745}\sqrt{14}e^3 \otimes e_9 + \frac{2}{745}\sqrt{1654}e^2 \otimes e_6$	{145689, 156789, 34678, 368}
9521:24	$0, 0, 0, 0, \frac{21}{7079}\sqrt{2298}e^{12}, \frac{21}{7079}\sqrt{8234}e^{13}, \frac{42}{7079}\sqrt{638}e^{34}, \frac{21}{7079}\sqrt{4762}e^{15}, \frac{42}{7079}\sqrt{1382}e^{18} + \frac{21}{7079}\sqrt{6630}e^{25}$	$(\frac{168}{7079}, \frac{336}{7079}, -\frac{273}{7079}, -\frac{714}{7079}, \frac{504}{7079}, -\frac{105}{7079}, -\frac{987}{7079}, \frac{672}{7079}, \frac{840}{7079}) + \frac{21}{7079}\sqrt{4558}e^3 \otimes e_4 + \frac{21}{7079}\sqrt{9022}e^2 \otimes e_6$	{145689, 368}
9521:24	$0, 0, 0, 0, \frac{2}{2509}\sqrt{335085}e^{12}, \frac{2}{2509}\sqrt{618105}e^{13}, \frac{16}{2509}\sqrt{2670}e^{34}, \frac{4}{2509}\sqrt{98790}e^{15}, \frac{2}{2509}\sqrt{506855}e^{18} + \frac{12}{2509}\sqrt{18690}e^{25}$	$(\frac{122}{2509}, \frac{244}{2509}, -\frac{768}{2509}, \frac{621}{2509}, \frac{366}{2509}, -\frac{646}{2509}, -\frac{147}{2509}, \frac{488}{2509}, \frac{610}{2509}) + \frac{8}{2509}\sqrt{63190}e^2 \otimes e_6$	{145689, 156789, 34678, 368}
9521:24	$0, 0, 0, 0, \frac{28}{121}\sqrt{5}e^{12}, \frac{14}{363}\sqrt{3}e^{13}, \frac{7}{121}\sqrt{65}e^{34}, \frac{7}{363}\sqrt{165}e^{15}, \frac{21}{121}\sqrt{5}e^{18} + \frac{7}{363}\sqrt{771}e^{25}$	$(\frac{7}{121}, \frac{14}{121}, \frac{7}{121}, -\frac{42}{121}, \frac{21}{121}, \frac{14}{121}, \frac{35}{121}, \frac{28}{121}, \frac{35}{121}) + \frac{7}{363}\sqrt{1479}e^2 \otimes e_7 - \frac{7}{363}\sqrt{435}e^3 \otimes e_4$	{1356789, 145789, 378, 4678}
9521:24	$0, 0, 0, 0, \frac{28}{121}\sqrt{5}e^{12}, \frac{14}{363}\sqrt{3}e^{13}, \frac{7}{121}\sqrt{65}e^{34}, \frac{7}{363}\sqrt{165}e^{15}, \frac{21}{121}\sqrt{5}e^{18} + \frac{7}{363}\sqrt{771}e^{25}$	$(\frac{7}{121}, \frac{14}{121}, \frac{7}{121}, -\frac{42}{121}, \frac{21}{121}, \frac{14}{121}, -\frac{35}{121}, \frac{28}{121}, \frac{35}{121}) + \frac{7}{363}\sqrt{1479}e^2 \otimes e_7 + \frac{7}{363}\sqrt{435}e^3 \otimes e_4$	{1356789, 145789, 378, 4678}
9521:25	$0, 0, 0, 0, \frac{12}{805}\sqrt{82}e^{12}, \frac{6}{805}\sqrt{82}e^{13}, \frac{6}{805}\sqrt{1046}e^{34}, \frac{6}{805}\sqrt{714}e^{25}, \frac{12}{805}\sqrt{21}e^{15} + \frac{24}{805}\sqrt{62}e^{28}$	$(\frac{12}{805}, \frac{6}{805}, \frac{102}{805}, -\frac{24}{115}, \frac{18}{805}, \frac{114}{805}, -\frac{66}{805}, \frac{24}{805}, \frac{6}{161}) + \frac{12}{805}\sqrt{421}e^2 \otimes e_7 + \frac{6}{805}\sqrt{1162}e^3 \otimes e_9$	{12348, 1456789}
9521:25	$0, 0, 0, 0, \frac{3}{1427}\sqrt{101470}e^{12}, \frac{1}{1427}\sqrt{218230}e^{13}, \frac{4}{1427}\sqrt{45870}e^{34}, \frac{4}{1427}\sqrt{14595}e^{25}, \frac{1}{1427}\sqrt{991070}e^{15} + \frac{3}{1427}\sqrt{59770}e^{28}$	$(\frac{214}{1427}, \frac{107}{1427}, -\frac{162}{1427}, -\frac{319}{1427}, \frac{321}{1427}, \frac{52}{1427}, -\frac{481}{1427}, \frac{428}{1427}, \frac{535}{1427}) + \frac{2}{1427}\sqrt{423255}e^1 \otimes e_7$	{235789, 2456789, 378, 4678}
9521:25	$0, 0, 0, 0, \frac{1}{99}\sqrt{690}e^{12}, \frac{2}{99}\sqrt{345}e^{13}, \frac{23}{99}\sqrt{2}e^{34}, \frac{1}{99}\sqrt{138}e^{25}, \frac{1}{99}\sqrt{46}e^{15} + \frac{5}{99}\sqrt{46}e^{28}$	$(-\frac{2}{33}, -\frac{1}{33}, \frac{8}{99}, \frac{25}{99}, -\frac{1}{11}, \frac{2}{99}, \frac{1}{3}, -\frac{4}{33}, -\frac{5}{33}) + \frac{1}{99}\sqrt{2346}e^3 \otimes e_9 + \frac{2}{99}\sqrt{437}e^4 \otimes e_6$	{23678, 45789}
9521:25	$0, 0, 0, 0, \frac{18}{3785}\sqrt{1087}e^{12}, \frac{18}{3785}\sqrt{703}e^{13}, \frac{36}{3785}\sqrt{374}e^{34}, \frac{36}{3785}\sqrt{119}e^{25}, \frac{18}{3785}\sqrt{1762}e^{15} + \frac{18}{3785}\sqrt{322}e^{28}$	$(\frac{18}{757}, \frac{9}{757}, -\frac{459}{3785}, \frac{387}{3785}, \frac{27}{757}, -\frac{369}{3785}, -\frac{72}{3785}, \frac{36}{757}, \frac{45}{757}) + \frac{18}{3785}\sqrt{1549}e^4 \otimes e_9 + \frac{18}{3785}\sqrt{1902}e^1 \otimes e_7$	{235789, 4678}
9521:25	$0, 0, 0, 0, \frac{4}{427}\sqrt{2370}e^{12}, \frac{2}{427}\sqrt{4187}e^{13}, \frac{8}{427}\sqrt{790}e^{34}, \frac{8}{427}\sqrt{790}e^{25}, \frac{2}{427}\sqrt{4187}e^{15} + \frac{4}{427}\sqrt{2370}e^{28}$	$(\frac{54}{427}, \frac{27}{427}, -\frac{39}{427}, -\frac{92}{427}, \frac{81}{427}, \frac{15}{427}, -\frac{131}{427}, \frac{108}{427}, \frac{135}{427}) + \frac{2}{427}\sqrt{28361}e^2 \otimes e_7$	{123468, 128, 1356789, 145789}
9521:25	$0, 0, 0, 0, \frac{6}{325}\sqrt{2}e^{12}, \frac{12}{325}\sqrt{133}e^{13}, \frac{6}{325}\sqrt{62}e^{34}, \frac{96}{325}\sqrt{2}e^{25}, \frac{12}{325}\sqrt{106}e^{15} + \frac{6}{325}\sqrt{574}e^{28}$	$(\frac{12}{325}, \frac{6}{325}, -\frac{6}{25}, \frac{102}{325}, \frac{18}{325}, -\frac{66}{325}, \frac{24}{325}, \frac{24}{325}, \frac{6}{65}) + \frac{12}{325}\sqrt{47}e^4 \otimes e_9 + \frac{18}{325}\sqrt{106}e^2 \otimes e_6$	{123478, 156789}
9521:25	$0, 0, 0, 0, \frac{1}{353}\sqrt{510}e^{12}, \frac{3}{353}\sqrt{3570}e^{13}, \frac{4}{353}\sqrt{510}e^{34}, \frac{2}{353}\sqrt{7310}e^{25}, \frac{1}{353}\sqrt{27710}e^{15} + \frac{3}{353}\sqrt{29410}e^{28}$	$(\frac{22}{353}, \frac{11}{353}, -\frac{96}{353}, \frac{93}{353}, \frac{33}{353}, -\frac{74}{353}, -\frac{3}{353}, \frac{44}{353}, \frac{55}{353}) + \frac{2}{353}\sqrt{13090}e^2 \otimes e_6$	{1234579, 12359, 146, 167}
9521:25	$0, 0, 0, 0, \frac{84}{1723}\sqrt{57}e^{12}, \frac{42}{1723}\sqrt{38}e^{13}, \frac{63}{1723}\sqrt{122}e^{34}, \frac{42}{1723}\sqrt{51}e^{25}, \frac{294}{1723}\sqrt{5}e^{15} + \frac{42}{1723}\sqrt{127}e^{28}$	$(\frac{168}{1723}, \frac{84}{1723}, -\frac{441}{1723}, \frac{168}{1723}, \frac{252}{1723}, -\frac{273}{1723}, -\frac{273}{1723}, \frac{336}{1723}, \frac{420}{1723}) + \frac{21}{1723}\sqrt{1066}e^4 \otimes e_6 + \frac{42}{1723}\sqrt{503}e^1 \otimes e_7$	{2356789, 245789, 3678, 478}
9521:25	$0, 0, 0, 0, \frac{13}{1741}\sqrt{654}e^{12}, \frac{13}{1741}\sqrt{170}e^{13}, \frac{52}{1741}\sqrt{69}e^{34}, \frac{156}{1741}\sqrt{2}e^{25}, \frac{13}{1741}\sqrt{1214}e^{15} + \frac{13}{1741}\sqrt{42}e^{28}$	$(\frac{26}{1741}, \frac{13}{1741}, \frac{234}{1741}, -\frac{377}{1741}, \frac{39}{1741}, \frac{260}{1741}, -\frac{143}{1741}, \frac{52}{1741}, \frac{65}{1741}) + \frac{26}{1741}\sqrt{435}e^1 \otimes e_7 + \frac{52}{1741}\sqrt{87}e^3 \otimes e_9$	{245789, 3678}
9521:25	$0, 0, 0, 0, \frac{3}{479}\sqrt{78}e^{12}, \frac{3}{479}\sqrt{530}e^{13}, \frac{6}{479}\sqrt{38}e^{34}, \frac{3}{479}\sqrt{362}e^{25}, \frac{3}{479}\sqrt{402}e^{15} + \frac{6}{479}\sqrt{97}e^{28}$	$(\frac{12}{479}, \frac{6}{479}, -\frac{15}{479}, -\frac{24}{479}, \frac{18}{479}, -\frac{3}{479}, -\frac{39}{479}, \frac{24}{479}, \frac{30}{479}) + \frac{3}{479}\sqrt{274}e^3 \otimes e_4 + \frac{3}{479}\sqrt{610}e^2 \otimes e_6$	{12359, 146}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:25	$0, 0, 0, 0, \frac{6}{2861}\sqrt{21809}e^{12}, \frac{6}{2861}\sqrt{74015}e^{13}, \frac{12}{2861}\sqrt{33109}e^{34},$ $\frac{60}{2861}\sqrt{226}e^{25}, \frac{12}{2861}\sqrt{29945}e^{15} + \frac{12}{2861}\sqrt{15142}e^{28}$	$(-\frac{138}{2861}, -\frac{69}{2861}, -\frac{57}{2861}, \frac{1689}{2861}, -\frac{207}{2861}, -\frac{195}{2861}, \frac{1632}{2861}, -\frac{276}{2861}, -\frac{345}{2861})$ $+ \frac{294}{2861}\sqrt{113}e^4 \otimes e_9$	{123679, 129, 13456, 1457}
9521:25	$0, 0, 0, 0, \frac{132}{601}\sqrt{5}e^{12}, \frac{66}{601}\sqrt{3}e^{13}, \frac{11}{601}\sqrt{586}e^{34}, \frac{99}{601}\sqrt{2}e^{25},$ $\frac{33}{601}\sqrt{86}e^{15} + \frac{11}{601}\sqrt{402}e^{28}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, -\frac{176}{601}, \frac{132}{601}, \frac{165}{601})$ $+ \frac{11}{601}\sqrt{1578}e^1 \otimes e_7 + \frac{11}{601}\sqrt{538}e^3 \otimes e_4$	{2356789, 245789, 3678, 478}
9521:25	$0, 0, 0, 0, \frac{132}{601}\sqrt{5}e^{12}, \frac{66}{601}\sqrt{3}e^{13}, \frac{11}{601}\sqrt{586}e^{34}, \frac{99}{601}\sqrt{2}e^{25},$ $\frac{33}{601}\sqrt{86}e^{15} + \frac{11}{601}\sqrt{402}e^{28}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, -\frac{176}{601}, \frac{132}{601}, \frac{165}{601})$ $+ \frac{11}{601}\sqrt{1578}e^1 \otimes e_7 - \frac{11}{601}\sqrt{538}e^3 \otimes e_4$	{2356789, 245789, 3678, 478}
9521:25	$0, 0, 0, 0, \frac{6}{1349}\sqrt{20527}e^{12}, \frac{15}{1349}\sqrt{9474}e^{13}, \frac{1}{1349}\sqrt{476858}e^{34},$ $\frac{3}{1349}\sqrt{60002}e^{25}, \frac{1}{1349}\sqrt{918978}e^{15} + \frac{1}{1349}\sqrt{786342}e^{28}$	$(\frac{72}{1349}, \frac{36}{1349}, \frac{825}{1349}, -\frac{754}{1349}, \frac{108}{1349}, \frac{897}{1349}, \frac{1}{19}, \frac{144}{1349}, \frac{180}{1349})$ $+ \frac{7}{1349}\sqrt{72634}e^3 \otimes e_4$	{12359, 124569, 13, 146}
9521:25	$0, 0, 0, 0, \frac{130}{511}\sqrt{2}e^{12}, \frac{13}{1533}\sqrt{102}e^{13}, \frac{13}{511}\sqrt{290}e^{34}, \frac{13}{1533}\sqrt{3030}e^{25},$ $\frac{13}{1533}\sqrt{1362}e^{15} + \frac{39}{511}\sqrt{30}e^{28}$	$(\frac{52}{511}, \frac{26}{511}, \frac{13}{511}, -\frac{156}{511}, \frac{78}{511}, \frac{65}{511}, -\frac{143}{511}, \frac{104}{511}, \frac{130}{511})$ $+ \frac{13}{219}\sqrt{30}e^3 \otimes e_4 + \frac{26}{1533}\sqrt{1614}e^2 \otimes e_7$	{1356789, 145789}
9521:25	$0, 0, 0, 0, \frac{1}{367}\sqrt{25806}e^{12}, \frac{1}{367}\sqrt{46805}e^{13}, \frac{1}{367}\sqrt{46299}e^{34}, \frac{3}{367}\sqrt{253}e^{25},$ $\frac{7}{367}\sqrt{506}e^{15} + \frac{1}{367}\sqrt{62238}e^{28}$	$(-\frac{28}{367}, -\frac{14}{367}, \frac{183}{367}, -\frac{29}{367}, -\frac{42}{367}, \frac{155}{367}, \frac{154}{367}, -\frac{56}{367}, -\frac{70}{367})$ $+ \frac{1}{367}\sqrt{154077}e^3 \otimes e_9$	{23468, 23678, 45789, 589}
9521:25	$0, 0, 0, 0, \frac{46}{1431}\sqrt{201}e^{12}, \frac{8}{1431}\sqrt{23115}e^{13}, \frac{1}{1431}\sqrt{976994}e^{34},$ $\frac{10}{1431}\sqrt{4623}e^{25}, \frac{2}{1431}\sqrt{144854}e^{15} + \frac{14}{1431}\sqrt{3082}e^{28}$	$(\frac{4}{53}, \frac{2}{53}, -\frac{535}{1431}, \frac{1114}{1431}, \frac{6}{53}, -\frac{42}{1431}, \frac{193}{477}, \frac{8}{53}, \frac{10}{53})$ $+ \frac{1}{1431}\sqrt{3602858}e^4 \otimes e_6$	{123459, 12569, 134, 16}
9521:25	$0, 0, 0, 0, \frac{444}{6811}\sqrt{15}e^{12}, \frac{74}{6811}\sqrt{53}e^{13}, \frac{37}{6811}\sqrt{4470}e^{34},$ $\frac{74}{6811}\sqrt{985}e^{25}, \frac{222}{6811}\sqrt{53}e^{15} + \frac{74}{6811}\sqrt{805}e^{28}$	$(\frac{592}{6811}, \frac{296}{6811}, -\frac{1517}{6811}, \frac{444}{6811}, \frac{888}{6811}, -\frac{925}{6811}, -\frac{1073}{6811}, \frac{1184}{6811}, \frac{1480}{6811})$ $+ \frac{37}{6811}\sqrt{3710}e^4 \otimes e_6 + \frac{74}{6811}\sqrt{2066}e^2 \otimes e_7$	{12348, 1268}
9521:25	$0, 0, 0, 0, \frac{12}{1435}\sqrt{170}e^{12}, \frac{3}{1435}\sqrt{2690}e^{13}, \frac{12}{1435}\sqrt{355}e^{34}, \frac{6}{287}\sqrt{26}e^{25},$ $\frac{6}{1435}\sqrt{290}e^{15} + \frac{3}{1435}\sqrt{3490}e^{28}$	$(\frac{6}{287}, \frac{3}{287}, -\frac{30}{287}, \frac{24}{287}, \frac{9}{287}, -\frac{24}{287}, -\frac{6}{287}, \frac{12}{287}, \frac{15}{287})$ $+ \frac{3}{205}\sqrt{110}e^4 \otimes e_9 + \frac{9}{1435}\sqrt{830}e^2 \otimes e_7$	{2569, 467}
9521:25	$0, 0, 0, 0, \frac{84}{1723}\sqrt{57}e^{12}, \frac{42}{1723}\sqrt{38}e^{13}, \frac{63}{1723}\sqrt{122}e^{34}, \frac{42}{1723}\sqrt{51}e^{25},$ $\frac{294}{1723}\sqrt{5}e^{15} + \frac{42}{1723}\sqrt{127}e^{28}$	$(\frac{168}{1723}, \frac{84}{1723}, -\frac{441}{1723}, \frac{168}{1723}, \frac{252}{1723}, -\frac{273}{1723}, -\frac{273}{1723}, \frac{336}{1723}, \frac{420}{1723})$ $- \frac{21}{1723}\sqrt{1066}e^4 \otimes e_6 + \frac{42}{1723}\sqrt{503}e^1 \otimes e_7$	{2356789, 245789, 3678, 478}
9521:26	$0, 0, 0, 0, \frac{9}{1327}\sqrt{1938}e^{12}, \frac{27}{1327}\sqrt{638}e^{13},$ $\frac{36}{1327}\sqrt{210}e^{14} + \frac{18}{1327}\sqrt{969}e^{23}, \frac{27}{1327}\sqrt{326}e^{15}, \frac{18}{1327}\sqrt{969}e^{18} + \frac{18}{1327}\sqrt{1191}e^{24}$	$(-\frac{9}{1327}, \frac{225}{1327}, -\frac{261}{1327}, -\frac{27}{1327}, \frac{216}{1327}, -\frac{270}{1327}, -\frac{36}{1327}, \frac{207}{1327}, \frac{198}{1327})$ $+ \frac{9}{1327}\sqrt{7662}e^4 \otimes e_6$	{167, 4579}
9521:26	$0, 0, 0, 0, \frac{4}{197}\sqrt{642}e^{12}, \frac{4}{197}\sqrt{690}e^{13}, \frac{8}{197}\sqrt{174}e^{14} + \frac{4}{197}\sqrt{762}e^{23},$ $\frac{24}{197}\sqrt{3}e^{15}, \frac{4}{197}\sqrt{762}e^{18} + \frac{44}{197}\sqrt{6}e^{24}$	$(\frac{8}{197}, -\frac{44}{197}, \frac{76}{197}, \frac{24}{197}, -\frac{36}{197}, \frac{84}{197}, \frac{32}{197}, -\frac{28}{197}, -\frac{20}{197})$ $+ \frac{4}{197}\sqrt{2046}e^3 \otimes e_9$	{2346, 4589}
9521:28	$0, 0, 0, 0, \frac{1}{53}\sqrt{714}e^{12}, \frac{8}{53}\sqrt{17}e^{13}, \frac{1}{53}\sqrt{442}e^{23}, \frac{2}{53}\sqrt{187}e^{15},$ $\frac{1}{53}\sqrt{986}e^{18} + \frac{1}{53}\sqrt{1326}e^{25}$	$(\frac{3}{53}, \frac{6}{53}, -\frac{14}{53}, \frac{5}{53}, \frac{9}{53}, -\frac{11}{53}, -\frac{8}{53}, \frac{12}{53}, \frac{15}{53})$ $+ \frac{1}{53}\sqrt{102}e^2 \otimes e_6$	{1456789, 156789, 3468, 368}
9521:28	$0, 0, 0, 0, \frac{30}{529}\sqrt{2}e^{12}, \frac{5}{529}\sqrt{1362}e^{13}, \frac{10}{529}\sqrt{597}e^{23}, \frac{30}{529}\sqrt{67}e^{15},$ $\frac{10}{529}\sqrt{597}e^{18} + \frac{10}{529}\sqrt{561}e^{25}$	$(\frac{20}{529}, \frac{40}{529}, -\frac{95}{529}, 0, \frac{60}{529}, -\frac{75}{529}, -\frac{55}{529}, \frac{80}{529}, \frac{100}{529})$ $+ \frac{10}{529}\sqrt{114}e^4 \otimes e_6 + \frac{5}{23}\sqrt{6}e^1 \otimes e_7$	{123468, 2456789}
9521:28	$0, 0, 0, 0, \frac{51}{2341}\sqrt{46}e^{12}, \frac{68}{2341}\sqrt{70}e^{13}, \frac{17}{2341}\sqrt{2410}e^{23},$ $\frac{68}{2341}\sqrt{143}e^{15}, \frac{85}{2341}\sqrt{86}e^{18} + \frac{17}{2341}\sqrt{1842}e^{25}$	$(\frac{85}{2341}, \frac{170}{2341}, -\frac{374}{2341}, -\frac{119}{2341}, \frac{255}{2341}, -\frac{289}{2341}, -\frac{204}{2341}, \frac{340}{2341}, \frac{425}{2341})$ $+ \frac{34}{2341}\sqrt{195}e^2 \otimes e_4 + \frac{68}{2341}\sqrt{210}e^1 \otimes e_7$	{12368, 256789}
9521:28	$0, 0, 0, 0, \frac{4}{529}\sqrt{906}e^{12}, \frac{604}{529}e^{13}, \frac{2}{529}\sqrt{39562}e^{23}, \frac{2}{529}\sqrt{38354}e^{15},$ $\frac{2}{529}\sqrt{39562}e^{18} + \frac{2}{529}\sqrt{46810}e^{25}$	$(\frac{20}{529}, \frac{40}{529}, -\frac{95}{529}, 1, \frac{60}{529}, -\frac{75}{529}, -\frac{55}{529}, \frac{80}{529}, \frac{100}{529})$ $+ \frac{302}{529}\sqrt{6}e^4 \otimes e_6$	{134589, 156789, 368, 478}
9521:28	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{741}e^{13}, \frac{1}{35}\sqrt{1558}e^{23}, \frac{6}{35}\sqrt{19}e^{15},$ $\frac{1}{35}\sqrt{817}e^{18} + \frac{1}{35}\sqrt{874}e^{25}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{1}{7}, 1, \frac{3}{35}, -\frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^4 \otimes e_7$	{1234569, 12579, 234, 267}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:28	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{741}e^{13}, \frac{1}{35}\sqrt{817}e^{23}, \frac{1}{35}\sqrt{57}e^{15},$ $\frac{2}{35}\sqrt{19}e^{18} + \frac{1}{35}\sqrt{133}e^{25}$	$(\frac{1}{35}, \frac{2}{35}, \frac{29}{70}, -\frac{47}{70}, \frac{3}{35}, \frac{31}{70}, \frac{33}{70}, \frac{4}{35}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^3 \otimes e_4$	{1379, 1469, 3567, 45}
9521:28	$0, 0, 0, 0, \frac{22}{1073}\sqrt{366}e^{12}, \frac{44}{1073}\sqrt{115}e^{13}, \frac{110}{1073}\sqrt{7}e^{23}, \frac{44}{1073}\sqrt{47}e^{15},$ $\frac{22}{1073}\sqrt{310}e^{18} + \frac{22}{1073}\sqrt{487}e^{25}$	$(\frac{55}{1073}, \frac{110}{1073}, -\frac{187}{1073}, -\frac{187}{1073}, \frac{165}{1073}, -\frac{132}{1073}, -\frac{77}{1073}, \frac{220}{1073}, \frac{275}{1073})$ $+ \frac{22}{1073}\sqrt{285}e^1 \otimes e_4 + \frac{22}{1073}\sqrt{690}e^2 \otimes e_6$	{156789, 3468}
9521:28	$0, 0, 0, 0, \frac{68}{1817}\sqrt{3}e^{12}, \frac{102}{1817}\sqrt{30}e^{13}, \frac{34}{1817}\sqrt{253}e^{23}, \frac{34}{1817}\sqrt{246}e^{15},$ $\frac{68}{1817}\sqrt{130}e^{18} + \frac{34}{1817}e^{25}$	$(-\frac{17}{1817}, -\frac{34}{1817}, \frac{493}{1817}, -\frac{595}{1817}, -\frac{51}{1817}, \frac{476}{1817}, \frac{459}{1817}, -\frac{68}{1817}, -\frac{85}{1817})$ $+ \frac{102}{1817}\sqrt{89}e^1 \otimes e_4 + \frac{306}{1817}\sqrt{10}e^3 \otimes e_9$	{125679, 2346}
9521:28	$0, 0, 0, 0, \frac{26}{1697}\sqrt{489}e^{12}, \frac{52}{1697}\sqrt{194}e^{13}, \frac{26}{1697}\sqrt{349}e^{23},$ $\frac{26}{1697}\sqrt{574}e^{15}, \frac{26}{1697}\sqrt{602}e^{18} + \frac{26}{1697}\sqrt{1074}e^{25}$	$(\frac{39}{1697}, \frac{78}{1697}, -\frac{299}{1697}, \frac{533}{1697}, \frac{117}{1697}, -\frac{260}{1697}, -\frac{221}{1697}, \frac{156}{1697}, \frac{195}{1697})$ $+ \frac{234}{1697}\sqrt{5}e^4 \otimes e_9 + \frac{52}{1697}\sqrt{291}e^2 \otimes e_6$	{156789, 3468}
9521:28	$0, 0, 0, 0, \frac{11}{949}\sqrt{426}e^{12}, \frac{22}{949}\sqrt{251}e^{13}, \frac{11}{949}\sqrt{166}e^{23}, \frac{22}{949}\sqrt{154}e^{15},$ $\frac{11}{949}\sqrt{758}e^{18} + \frac{11}{949}\sqrt{966}e^{25}$	$(\frac{33}{949}, \frac{66}{949}, -\frac{88}{949}, -\frac{209}{949}, \frac{99}{949}, -\frac{55}{949}, -\frac{22}{949}, \frac{132}{949}, \frac{165}{949})$ $+ \frac{22}{949}\sqrt{309}e^2 \otimes e_6 + \frac{66}{949}\sqrt{15}e^3 \otimes e_4$	{1456789, 368}
9521:28	$0, 0, 0, 0, \frac{14}{949}\sqrt{15}e^{12}, \frac{7}{949}\sqrt{286}e^{13}, \frac{28}{949}\sqrt{65}e^{23}, \frac{7}{949}\sqrt{878}e^{15},$ $\frac{7}{949}\sqrt{898}e^{18} + \frac{14}{949}\sqrt{219}e^{25}$	$(\frac{21}{949}, \frac{42}{949}, -\frac{70}{949}, -\frac{119}{949}, \frac{63}{949}, -\frac{49}{949}, -\frac{28}{949}, \frac{84}{949}, \frac{105}{949})$ $+ \frac{14}{949}\sqrt{321}e^1 \otimes e_7 + \frac{7}{949}\sqrt{426}e^3 \otimes e_4$	{123569, 2467}
9521:28	$0, 0, 0, 0, \frac{9}{19}e^{12}, \frac{1}{19}\sqrt{123}e^{13}, \frac{1}{19}\sqrt{42}e^{23}, \frac{2}{19}\sqrt{21}e^{15},$ $\frac{1}{19}\sqrt{111}e^{18} + \frac{5}{19}\sqrt{6}e^{25}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{4}{19}, -\frac{3}{19}, \frac{4}{19}, \frac{5}{19})$ $+ \frac{1}{19}\sqrt{15}e^4 \otimes e_7 + \frac{8}{19}\sqrt{3}e^2 \otimes e_6$	{156789, 3468}
9521:28	$0, 0, 0, 0, \frac{7}{473}\sqrt{6}e^{12}, \frac{3}{473}\sqrt{106}e^{13}, \frac{2}{473}\sqrt{34}e^{23}, \frac{3}{473}\sqrt{70}e^{15},$ $\frac{1}{473}\sqrt{498}e^{18} + \frac{2}{473}\sqrt{263}e^{25}$	$(-\frac{1}{473}, -\frac{2}{473}, -\frac{3}{473}, \frac{29}{473}, -\frac{3}{473}, -\frac{4}{473}, -\frac{5}{473}, -\frac{4}{473}, -\frac{5}{473})$ $+ \frac{1}{473}\sqrt{1086}e^2 \otimes e_6 + \frac{1}{473}\sqrt{690}e^3 \otimes e_9$	{1456789, 156789, 3468, 368}
9521:28	$0, 0, 0, 0, \frac{7}{473}\sqrt{6}e^{12}, \frac{3}{473}\sqrt{106}e^{13}, \frac{2}{473}\sqrt{34}e^{23}, \frac{3}{473}\sqrt{70}e^{15},$ $\frac{1}{473}\sqrt{498}e^{18} + \frac{2}{473}\sqrt{263}e^{25}$	$(-\frac{1}{473}, -\frac{2}{473}, -\frac{3}{473}, \frac{29}{473}, -\frac{3}{473}, \frac{4}{473}, -\frac{5}{473}, \frac{4}{473}, -\frac{5}{473})$ $+ \frac{1}{473}\sqrt{1086}e^2 \otimes e_6 - \frac{1}{473}\sqrt{690}e^3 \otimes e_9$	{1456789, 156789, 3468, 368}
9521:28	$0, 0, 0, 0, \frac{60}{1469}\sqrt{2}e^{12}, \frac{20}{1469}\sqrt{373}e^{13}, \frac{40}{1469}\sqrt{194}e^{23}, \frac{20}{1469}\sqrt{782}e^{15},$ $\frac{20}{1469}\sqrt{835}e^{18} + \frac{20}{1469}\sqrt{681}e^{25}$	$(\frac{30}{1469}, \frac{60}{1469}, -\frac{230}{1469}, \frac{350}{1469}, \frac{90}{1469}, -\frac{200}{1469}, -\frac{170}{1469}, \frac{120}{1469}, \frac{150}{1469})$ $+ \frac{20}{1469}\sqrt{1119}e^1 \otimes e_7 + \frac{20}{1469}\sqrt{177}e^4 \otimes e_9$	{123468, 256789}
9521:28	$0, 0, 0, 0, \frac{13}{1501}\sqrt{1146}e^{12}, \frac{13}{1501}\sqrt{3918}e^{13}, \frac{39}{1501}\sqrt{14}e^{23},$ $\frac{39}{1501}\sqrt{206}e^{15}, \frac{13}{1501}\sqrt{14}e^{18} + \frac{78}{1501}\sqrt{66}e^{25}$	$(-\frac{52}{1501}, -\frac{104}{1501}, \frac{13}{79}, \frac{702}{1501}, -\frac{156}{1501}, \frac{195}{1501}, \frac{143}{1501}, -\frac{208}{1501}, -\frac{260}{1501})$ $+ \frac{13}{1501}\sqrt{4794}e^3 \otimes e_9 + \frac{26}{1501}\sqrt{870}e^4 \otimes e_6$	{123458, 24789}
9521:28	$0, 0, 0, 0, \frac{2}{19}\sqrt{6}e^{12}, \frac{1}{19}\sqrt{70}e^{13}, \frac{4}{19}\sqrt{5}e^{23}, \frac{2}{19}\sqrt{23}e^{15},$ $\frac{10}{19}e^{18} + \frac{6}{19}\sqrt{3}e^{25}$	$(0, 0, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{19}\sqrt{15}e^2 \otimes e_6 + \frac{3}{19}\sqrt{10}e^1 \otimes e_7$	{1234569, 123569, 2467, 267}
9521:28	$0, 0, 0, 0, \frac{2}{19}\sqrt{6}e^{12}, \frac{1}{19}\sqrt{70}e^{13}, \frac{4}{19}\sqrt{5}e^{23}, \frac{2}{19}\sqrt{23}e^{15},$ $\frac{10}{19}e^{18} + \frac{6}{19}\sqrt{3}e^{25}$	$(0, 0, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, -\frac{1}{19}, 0, 0)$ $- \frac{2}{19}\sqrt{15}e^2 \otimes e_6 + \frac{3}{19}\sqrt{10}e^1 \otimes e_7$	{1234569, 123569, 2467, 267}
9521:28	$0, 0, 0, 0, \frac{19}{287}\sqrt{66}e^{12}, \frac{9}{287}\sqrt{418}e^{13}, \frac{1}{287}\sqrt{28006}e^{23}, \frac{11}{287}\sqrt{114}e^{15},$ $\frac{1}{287}\sqrt{28006}e^{18} + \frac{1}{287}\sqrt{6479}e^{25}$	$(-\frac{2}{41}, -\frac{4}{41}, \frac{139}{287}, \frac{44}{287}, -\frac{6}{41}, \frac{125}{287}, \frac{111}{287}, -\frac{8}{41}, -\frac{10}{41})$ $+ \frac{5}{287}\sqrt{1254}e^3 \otimes e_9$	{123458, 12358, 24789, 2789}
9521:28	$0, 0, 0, 0, \frac{5}{137}\sqrt{111}e^{12}, \frac{15}{137}\sqrt{3}e^{13}, \frac{5}{137}\sqrt{214}e^{23}, \frac{10}{137}\sqrt{3}e^{15},$ $\frac{5}{137}\sqrt{145}e^{18} + \frac{5}{137}\sqrt{10}e^{25}$	$(-\frac{5}{137}, -\frac{10}{137}, \frac{25}{137}, \frac{65}{137}, -\frac{15}{137}, \frac{20}{137}, \frac{15}{137}, -\frac{20}{137}, -\frac{25}{137})$ $+ \frac{15}{137}\sqrt{23}e^4 \otimes e_7 + \frac{60}{137}\sqrt{2}e^3 \otimes e_9$	{125679, 2346}
9521:28	$0, 0, 0, 0, \frac{2}{293}\sqrt{141}e^{12}, \frac{1}{293}\sqrt{7990}e^{13}, \frac{6}{293}\sqrt{470}e^{23}, \frac{2}{293}\sqrt{4277}e^{15},$ $\frac{6}{293}\sqrt{470}e^{18} + \frac{4}{293}\sqrt{987}e^{25}$	$(\frac{10}{293}, \frac{20}{293}, -\frac{57}{293}, \frac{38}{293}, \frac{30}{293}, -\frac{47}{293}, -\frac{37}{293}, \frac{40}{293}, \frac{50}{293})$ $+ \frac{1}{293}\sqrt{23970}e^1 \otimes e_7$	{123468, 12368, 2456789, 256789}
9521:28	$0, 0, 0, 0, \frac{105}{3949}\sqrt{62}e^{12}, \frac{140}{3949}\sqrt{78}e^{13}, \frac{35}{3949}\sqrt{1178}e^{23},$ $\frac{420}{3949}\sqrt{7}e^{15}, \frac{105}{3949}\sqrt{6}e^{18} + \frac{35}{3949}\sqrt{2558}e^{25}$	$(-\frac{35}{3949}, -\frac{70}{3949}, \frac{1050}{3949}, -\frac{1295}{3949}, -\frac{105}{3949}, \frac{1015}{3949}, \frac{980}{3949}, -\frac{140}{3949}, -\frac{175}{3949})$ $+ \frac{420}{3949}\sqrt{26}e^3 \otimes e_9 + \frac{70}{3949}\sqrt{843}e^2 \otimes e_4$	{12679, 2356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:29	$0, 0, 0, 0, \frac{1}{30}\sqrt{3}e^{12}, \frac{1}{120}\sqrt{115}e^{13}, \frac{1}{120}\sqrt{115}e^{14}, \frac{1}{120}\sqrt{94}e^{15},$ $\frac{1}{120}\sqrt{78}e^{18} + \frac{1}{60}\sqrt{15}e^{25}$	$(-\frac{1}{120}, -\frac{1}{60}, \frac{3}{80}, \frac{3}{80}, -\frac{1}{40}, \frac{7}{240}, \frac{7}{240}, -\frac{1}{30}, -\frac{1}{24})$ $+ \frac{1}{60}\sqrt{29}e^3 \otimes e_7 - \frac{1}{60}\sqrt{29}e^4 \otimes e_6$	{134, 167, 3569}
9521:29	$0, 0, 0, 0, \frac{6}{437}\sqrt{1335}e^{12}, \frac{2}{437}\sqrt{18245}e^{13}, \frac{4}{437}\sqrt{267}e^{14}, \frac{4}{437}\sqrt{3115}e^{15},$ $\frac{2}{437}\sqrt{16465}e^{18} + \frac{2}{437}\sqrt{22606}e^{25}$	$(\frac{24}{437}, \frac{48}{437}, -\frac{154}{437}, \frac{39}{437}, \frac{72}{437}, -\frac{130}{437}, \frac{63}{437}, \frac{96}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{34354}e^2 \otimes e_6$	{145689, 156789, 34678, 368}
9521:29	$0, 0, 0, 0, \frac{138}{1301}\sqrt{21}e^{12}, \frac{23}{1301}\sqrt{114}e^{13}, \frac{92}{1301}\sqrt{62}e^{14},$ $\frac{23}{1301}\sqrt{1374}e^{15}, \frac{23}{1301}\sqrt{1122}e^{18} + \frac{46}{1301}\sqrt{183}e^{25}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{46}{1301}\sqrt{553}e^1 \otimes e_4 + \frac{69}{1301}\sqrt{10}e^3 \otimes e_7$	{1238, 2345689}
9521:29	$0, 0, 0, 0, \frac{2}{747}\sqrt{26967}e^{12}, \frac{2}{747}\sqrt{91203}e^{13}, \frac{8}{747}\sqrt{303}e^{14}, \frac{2}{747}\sqrt{44238}e^{15},$ $\frac{2}{747}\sqrt{28785}e^{18} + \frac{2}{747}\sqrt{80598}e^{25}$	$(-\frac{32}{747}, -\frac{64}{747}, \frac{446}{747}, \frac{43}{249}, -\frac{32}{249}, \frac{46}{83}, \frac{97}{747}, -\frac{128}{747}, -\frac{160}{747})$ $+ \frac{2}{747}\sqrt{192102}e^3 \otimes e_9$	{1234578, 12358, 2489, 2789}
9521:29	$0, 0, 0, 0, \frac{116}{3949}\sqrt{73}e^{12}, \frac{58}{3949}\sqrt{331}e^{13}, \frac{29}{3949}\sqrt{2330}e^{14},$ $\frac{58}{3949}\sqrt{581}e^{15}, \frac{145}{3949}\sqrt{74}e^{18} + \frac{58}{3949}\sqrt{1006}e^{25}$	$(\frac{29}{3949}, \frac{58}{3949}, \frac{986}{3949}, -\frac{812}{3949}, \frac{87}{3949}, \frac{1015}{3949}, -\frac{783}{3949}, \frac{116}{3949}, \frac{145}{3949})$ $+ \frac{29}{3949}\sqrt{2590}e^3 \otimes e_9 + \frac{29}{3949}\sqrt{4602}e^2 \otimes e_7$	{156789, 34678}
9521:29	$0, 0, 0, 0, \frac{3}{268}\sqrt{2114}e^{12}, \frac{5}{536}\sqrt{8607}e^{13}, \frac{5}{536}\sqrt{8607}e^{14}, \frac{1}{536}\sqrt{162174}e^{15},$ $\frac{151}{536}\sqrt{6}e^{18} + \frac{1}{268}\sqrt{30351}e^{25}$	$(\frac{11}{536}, \frac{11}{268}, \frac{597}{1072}, -\frac{331}{1072}, \frac{33}{536}, \frac{619}{1072}, -\frac{309}{1072}, \frac{11}{134}, \frac{55}{536})$ $+ \frac{1}{134}\sqrt{26274}e^3 \otimes e_7$	{134, 167, 3569, 4579}
9521:29	$0, 0, 0, 0, \frac{21}{2129}\sqrt{1326}e^{12}, \frac{42}{2129}\sqrt{215}e^{13}, \frac{21}{2129}\sqrt{1070}e^{14},$ $\frac{336}{2129}\sqrt{2}e^{15}, \frac{21}{2129}\sqrt{70}e^{18} + \frac{21}{2129}\sqrt{582}e^{25}$	$(\frac{105}{2129}, \frac{210}{2129}, -\frac{336}{2129}, -\frac{336}{2129}, \frac{315}{2129}, -\frac{231}{2129}, -\frac{231}{2129}, \frac{420}{2129}, \frac{525}{2129})$ $+ \frac{21}{2129}\sqrt{1930}e^1 \otimes e_3 + \frac{21}{2129}\sqrt{1930}e^2 \otimes e_7$	{1579, 347}
9521:29	$0, 0, 0, 0, \frac{104}{1935}\sqrt{30}e^{12}, \frac{13}{1935}\sqrt{2478}e^{13}, \frac{26}{1935}\sqrt{1293}e^{14},$ $\frac{13}{387}\sqrt{138}e^{15}, \frac{169}{1935}\sqrt{6}e^{18} + \frac{26}{1935}\sqrt{894}e^{25}$	$(-\frac{13}{387}, -\frac{26}{387}, \frac{208}{645}, \frac{182}{1935}, -\frac{13}{129}, \frac{13}{45}, \frac{13}{215}, -\frac{52}{387}, -\frac{65}{387})$ $+ \frac{13}{215}\sqrt{66}e^3 \otimes e_7 + \frac{26}{1935}\sqrt{1347}e^4 \otimes e_9$	{134, 3569}
9521:29	$0, 0, 0, 0, \frac{1}{30}\sqrt{3}e^{12}, \frac{1}{120}\sqrt{115}e^{13}, \frac{1}{120}\sqrt{115}e^{14}, \frac{1}{120}\sqrt{94}e^{15},$ $\frac{1}{120}\sqrt{78}e^{18} + \frac{1}{60}\sqrt{15}e^{25}$	$(-\frac{1}{120}, -\frac{1}{60}, \frac{3}{80}, \frac{3}{80}, -\frac{1}{40}, \frac{7}{240}, \frac{7}{240}, -\frac{1}{30}, -\frac{1}{24})$ $+ \frac{1}{60}\sqrt{29}e^3 \otimes e_7 + \frac{1}{60}\sqrt{29}e^4 \otimes e_6$	{134, 167, 3569}
9521:29	$0, 0, 0, 0, \frac{116}{3949}\sqrt{73}e^{12}, \frac{58}{3949}\sqrt{331}e^{13}, \frac{116}{3949}\sqrt{142}e^{14},$ $\frac{29}{3949}\sqrt{2278}e^{15}, \frac{232}{3949}\sqrt{43}e^{18} + \frac{493}{3949}\sqrt{2}e^{25}$	$(\frac{29}{3949}, \frac{58}{3949}, \frac{986}{3949}, -\frac{812}{3949}, \frac{87}{3949}, \frac{1015}{3949}, -\frac{783}{3949}, \frac{116}{3949}, \frac{145}{3949})$ $+ \frac{29}{3949}\sqrt{2590}e^3 \otimes e_9 + \frac{29}{3949}\sqrt{4602}e^1 \otimes e_4$	{1238, 24589}
9521:29	$0, 0, 0, 0, \frac{380}{5269}\sqrt{3}e^{12}, \frac{247}{5269}\sqrt{30}e^{13}, \frac{38}{5269}\sqrt{527}e^{14},$ $\frac{19}{5269}\sqrt{3790}e^{15}, \frac{19}{5269}\sqrt{4190}e^{18} + \frac{38}{5269}\sqrt{1214}e^{25}$	$(\frac{133}{5269}, \frac{266}{5269}, -\frac{228}{5269}, -\frac{722}{5269}, \frac{399}{5269}, -\frac{95}{5269}, -\frac{589}{5269}, \frac{532}{5269}, \frac{665}{5269})$ $+ \frac{38}{5269}\sqrt{1481}e^2 \otimes e_6 + \frac{95}{5269}\sqrt{158}e^3 \otimes e_7$	{156789, 368}
9521:29	$0, 0, 0, 0, \frac{6}{437}\sqrt{1335}e^{12}, \frac{2}{437}\sqrt{16109}e^{13}, \frac{4}{437}\sqrt{267}e^{14}, \frac{2}{437}\sqrt{21894}e^{15},$ $\frac{2}{437}\sqrt{17889}e^{18} + \frac{4}{437}\sqrt{2937}e^{25}$	$(\frac{24}{437}, \frac{48}{437}, -\frac{154}{437}, \frac{39}{437}, \frac{72}{437}, -\frac{130}{437}, \frac{63}{437}, \frac{96}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{34354}e^1 \otimes e_3$	{1248, 1278, 2345789, 23589}
9521:29	$0, 0, 0, 0, \frac{2}{737}\sqrt{362}e^{12}, \frac{2}{737}\sqrt{1370}e^{13}, \frac{4}{737}\sqrt{2}e^{14}, \frac{2}{737}\sqrt{886}e^{15},$ $\frac{6}{737}\sqrt{70}e^{18} + \frac{8}{737}\sqrt{93}e^{25}$	$(-\frac{4}{737}, -\frac{8}{737}, -\frac{12}{737}, \frac{50}{737}, -\frac{12}{737}, -\frac{16}{737}, \frac{46}{737}, -\frac{16}{737}, -\frac{20}{737})$ $+ \frac{2}{737}\sqrt{1130}e^3 \otimes e_9 + \frac{2}{737}\sqrt{1626}e^2 \otimes e_6$	{1456789, 15689, 3468, 3678}
9521:29	$0, 0, 0, 0, \frac{2}{737}\sqrt{362}e^{12}, \frac{2}{737}\sqrt{1370}e^{13}, \frac{4}{737}\sqrt{2}e^{14}, \frac{2}{737}\sqrt{886}e^{15},$ $\frac{6}{737}\sqrt{70}e^{18} + \frac{8}{737}\sqrt{93}e^{25}$	$(-\frac{4}{737}, -\frac{8}{737}, -\frac{12}{737}, \frac{50}{737}, -\frac{12}{737}, -\frac{16}{737}, \frac{46}{737}, -\frac{16}{737}, -\frac{20}{737})$ $- \frac{2}{737}\sqrt{1130}e^3 \otimes e_9 + \frac{2}{737}\sqrt{1626}e^2 \otimes e_6$	{1456789, 15689, 3468, 3678}
9521:30	$0, 0, 0, 0, \frac{43}{6045}\sqrt{3370}e^{12}, \frac{86}{6045}\sqrt{583}e^{13}, \frac{43}{6045}\sqrt{5018}e^{14},$ $\frac{172}{6045}\sqrt{65}e^{25}, \frac{43}{2015}\sqrt{214}e^{15} + \frac{43}{6045}\sqrt{3954}e^{28}$	$(-\frac{86}{1209}, -\frac{43}{2015}, \frac{731}{2015}, \frac{258}{2015}, -\frac{43}{403}, \frac{1763}{6045}, \frac{344}{6045}, -\frac{172}{1209}, -\frac{215}{1209})$ $+ \frac{86}{6045}\sqrt{1343}e^4 \otimes e_9 + \frac{86}{6045}\sqrt{1381}e^3 \otimes e_7$	{125679, 134}
9521:30	$0, 0, 0, 0, \frac{3}{1177}\sqrt{45586}e^{12}, \frac{21}{1177}\sqrt{1982}e^{13}, \frac{1}{1177}\sqrt{101082}e^{14},$ $\frac{3}{1177}\sqrt{5946}e^{25}, \frac{4}{1177}\sqrt{13874}e^{15} + \frac{4}{1177}\sqrt{52523}e^{28}$	$(-\frac{102}{1177}, -\frac{51}{1177}, \frac{736}{1177}, \frac{244}{1177}, -\frac{153}{1177}, \frac{634}{1177}, \frac{142}{1177}, -\frac{204}{1177}, -\frac{255}{1177})$ $+ \frac{4}{1177}\sqrt{121893}e^3 \otimes e_9$	{23468, 23678, 4589, 5789}
9521:30	$0, 0, 0, 0, \frac{33}{5725}\sqrt{166}e^{12}, \frac{11}{5725}\sqrt{5322}e^{13}, \frac{22}{5725}\sqrt{515}e^{14},$ $\frac{44}{5725}\sqrt{265}e^{25}, \frac{121}{5725}\sqrt{42}e^{15} + \frac{11}{5725}\sqrt{4738}e^{28}$	$(\frac{154}{5725}, \frac{77}{5725}, -\frac{198}{5725}, -\frac{473}{5725}, \frac{231}{5725}, -\frac{44}{5725}, -\frac{319}{5725}, \frac{308}{5725}, \frac{77}{1145})$ $+ \frac{22}{5725}\sqrt{1631}e^2 \otimes e_6 + \frac{22}{5725}\sqrt{953}e^3 \otimes e_7$	{123459, 167}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:30	$0, 0, 0, 0, \frac{3}{347}\sqrt{966}e^{12}, \frac{12}{347}\sqrt{35}e^{13}, \frac{3}{347}\sqrt{1610}e^{14}, \frac{12}{347}\sqrt{77}e^{25},$ $\frac{9}{347}\sqrt{42}e^{15} + \frac{3}{347}\sqrt{910}e^{28}$	$(\frac{30}{347}, \frac{15}{347}, -\frac{33}{347}, -\frac{78}{347}, \frac{45}{347}, -\frac{3}{347}, -\frac{48}{347}, \frac{60}{347}, \frac{75}{347})$ $+ \frac{60}{347}\sqrt{7}e^2 \otimes e_7 + \frac{6}{347}\sqrt{385}e^1 \otimes e_3$	{1248, 15789}
9521:30	$0, 0, 0, 0, \frac{3}{211}\sqrt{3094}e^{12}, \frac{4}{211}\sqrt{1190}e^{13}, \frac{1}{211}\sqrt{3570}e^{14}, \frac{6}{211}\sqrt{238}e^{25},$ $\frac{1}{211}\sqrt{30702}e^{15} + \frac{5}{211}\sqrt{714}e^{28}$	$(\frac{30}{211}, \frac{15}{211}, -\frac{89}{211}, \frac{6}{211}, \frac{45}{211}, -\frac{59}{211}, \frac{36}{211}, \frac{60}{211}, \frac{75}{211})$ $+ \frac{2}{211}\sqrt{11305}e^1 \otimes e_3$	{2345789, 23589, 3478, 38}
9521:30	$0, 0, 0, 0, \frac{21}{1217}\sqrt{14}e^{12}, \frac{7}{1217}\sqrt{7910}e^{13}, \frac{21}{1217}\sqrt{70}e^{14}, \frac{7}{1217}\sqrt{8162}e^{25},$ $\frac{98}{1217}\sqrt{38}e^{15} + \frac{14}{1217}\sqrt{2030}e^{28}$	$(\frac{90}{1217}, \frac{45}{1217}, -\frac{388}{1217}, \frac{132}{1217}, \frac{135}{1217}, -\frac{298}{1217}, \frac{222}{1217}, \frac{180}{1217}, \frac{225}{1217})$ $+ \frac{28}{1217}\sqrt{910}e^2 \otimes e_6$	{12348, 12378, 145689, 156789}
9521:30	$0, 0, 0, 0, \frac{3}{584}\sqrt{20670}e^{12}, \frac{3}{584}\sqrt{26765}e^{13}, \frac{3}{584}\sqrt{26765}e^{14}, \frac{9}{292}\sqrt{318}e^{25},$ $\frac{3}{584}\sqrt{24486}e^{15} + \frac{3}{584}\sqrt{18338}e^{28}$	$(\frac{7}{292}, \frac{7}{584}, \frac{663}{1168}, -\frac{319}{1168}, \frac{21}{584}, \frac{691}{1168}, -\frac{291}{1168}, \frac{7}{146}, \frac{35}{584})$ $+ \frac{3}{584}\sqrt{52046}e^3 \otimes e_7$	{123459, 125679, 134, 167}
9521:30	$0, 0, 0, 0, \frac{8}{175}\sqrt{11}e^{12}, \frac{4}{105}\sqrt{19}e^{13}, \frac{4}{105}\sqrt{19}e^{14}, \frac{4}{525}\sqrt{174}e^{25},$ $\frac{4}{525}\sqrt{454}e^{15} + \frac{4}{175}\sqrt{34}e^{28}$	$(-\frac{16}{525}, -\frac{8}{525}, \frac{2}{25}, \frac{2}{25}, -\frac{8}{175}, \frac{26}{525}, \frac{26}{525}, -\frac{32}{525}, -\frac{8}{105})$ $+ \frac{4}{525}\sqrt{491}e^3 \otimes e_7 - \frac{8}{525}\sqrt{491}e^4 \otimes e_6$	{123459, 125679, 134, 167}
9521:30	$0, 0, 0, 0, \frac{33}{4901}\sqrt{2470}e^{12}, \frac{33}{4901}\sqrt{1946}e^{13}, \frac{132}{4901}\sqrt{163}e^{14},$ $\frac{132}{4901}\sqrt{71}e^{25} + \frac{33}{4901}\sqrt{4102}e^{15} + \frac{33}{4901}\sqrt{706}e^{28}$	$(\frac{66}{4901}, \frac{33}{4901}, \frac{1254}{4901}, -\frac{1023}{4901}, \frac{99}{4901}, \frac{1320}{4901}, -\frac{33}{169}, \frac{132}{4901}, \frac{165}{4901})$ $+ \frac{132}{4901}\sqrt{235}e^3 \otimes e_9 + \frac{66}{4901}\sqrt{1337}e^1 \otimes e_4$	{24589, 3468}
9521:30	$0, 0, 0, 0, \frac{93}{1949}\sqrt{118}e^{12}, \frac{341}{1949}\sqrt{6}e^{13}, \frac{62}{1949}\sqrt{122}e^{14}, \frac{186}{1949}\sqrt{7}e^{25},$ $\frac{31}{1949}\sqrt{1146}e^{15} + \frac{31}{1949}\sqrt{606}e^{28}$	$(\frac{186}{1949}, \frac{93}{1949}, \frac{372}{1949}, -\frac{775}{1949}, \frac{279}{1949}, \frac{558}{1949}, -\frac{589}{1949}, \frac{372}{1949}, \frac{465}{1949})$ $+ \frac{186}{1949}\sqrt{30}e^3 \otimes e_7 + \frac{62}{1949}\sqrt{607}e^1 \otimes e_4$	{2345689, 3468}
9521:30	$0, 0, 0, 0, \frac{351}{3695}\sqrt{2}e^{12}, \frac{27}{3695}\sqrt{926}e^{13}, \frac{27}{3695}\sqrt{2422}e^{14},$ $\frac{27}{3695}\sqrt{2618}e^{25}, \frac{108}{3695}\sqrt{138}e^{15} + \frac{324}{3695}\sqrt{23}e^{28}$	$(\frac{54}{3695}, \frac{27}{3695}, \frac{864}{3695}, -\frac{756}{3695}, \frac{81}{3695}, \frac{918}{3695}, -\frac{702}{3695}, \frac{108}{3695}, \frac{27}{739})$ $+ \frac{108}{3695}\sqrt{109}e^3 \otimes e_9 + \frac{216}{3695}\sqrt{74}e^2 \otimes e_7$	{124569, 137}
9521:30	$0, 0, 0, 0, \frac{8}{175}\sqrt{11}e^{12}, \frac{4}{105}\sqrt{19}e^{13}, \frac{4}{105}\sqrt{19}e^{14}, \frac{4}{525}\sqrt{174}e^{25},$ $\frac{4}{525}\sqrt{454}e^{15} + \frac{4}{175}\sqrt{34}e^{28}$	$(-\frac{16}{525}, -\frac{8}{525}, \frac{2}{25}, \frac{2}{25}, -\frac{8}{175}, \frac{26}{525}, \frac{26}{525}, -\frac{32}{525}, -\frac{8}{105})$ $+ \frac{4}{525}\sqrt{491}e^3 \otimes e_7 + \frac{4}{525}\sqrt{491}e^4 \otimes e_6$	{123459, 125679, 134, 167}
9521:31	$0, 0, 0, 0, \frac{150}{2137}\sqrt{10}e^{12}, \frac{210}{2137}\sqrt{13}e^{13}, \frac{30}{2137}\sqrt{353}e^{24},$ $\frac{30}{2137}\sqrt{421}e^{15}, \frac{90}{2137}\sqrt{31}e^{18} + \frac{180}{2137}\sqrt{23}e^{25}$	$(\frac{15}{2137}, \frac{30}{2137}, -\frac{435}{2137}, \frac{525}{2137}, \frac{45}{2137}, -\frac{420}{2137}, \frac{555}{2137}, \frac{60}{2137}, \frac{75}{2137})$ $+ \frac{30}{2137}\sqrt{1259}e^2 \otimes e_6 + \frac{780}{2137}e^4 \otimes e_9$	{15689, 34678}
9521:31	$0, 0, 0, 0, \frac{18}{2009}\sqrt{130}e^{12}, \frac{6}{2009}\sqrt{1886}e^{13}, \frac{6}{2009}\sqrt{38}e^{24}, \frac{6}{2009}\sqrt{430}e^{15},$ $\frac{12}{2009}\sqrt{10}e^{18} + \frac{6}{2009}\sqrt{398}e^{25}$	$(-\frac{24}{2009}, -\frac{48}{2009}, \frac{111}{2009}, \frac{3}{49}, -\frac{72}{2009}, \frac{87}{2009}, \frac{75}{2009}, -\frac{96}{2009}, -\frac{120}{2009})$ $+ \frac{6}{2009}\sqrt{1910}e^3 \otimes e_7 + \frac{6}{2009}\sqrt{1910}e^4 \otimes e_6$	{1234589, 1256789}
9521:31	$0, 0, 0, 0, \frac{84}{2339}\sqrt{247}e^{12}, \frac{4}{2339}\sqrt{12597}e^{13}, \frac{12}{2339}\sqrt{23959}e^{24},$ $\frac{4}{2339}\sqrt{22971}e^{15}, \frac{4}{2339}\sqrt{219830}e^{18} + \frac{4}{2339}\sqrt{39767}e^{25}$	$(-\frac{102}{2339}, -\frac{204}{2339}, \frac{440}{2339}, \frac{1466}{2339}, -\frac{306}{2339}, \frac{338}{2339}, \frac{1262}{2339}, -\frac{408}{2339}, -\frac{510}{2339})$ $+ \frac{260}{2339}\sqrt{114}e^4 \otimes e_9$	{134678, 1478, 3589, 5689}
9521:31	$0, 0, 0, 0, \frac{150}{2137}\sqrt{10}e^{12}, \frac{30}{2137}\sqrt{622}e^{13}, \frac{30}{2137}\sqrt{353}e^{24},$ $\frac{30}{2137}\sqrt{838}e^{15}, \frac{420}{2137}\sqrt{5}e^{18} + \frac{30}{2137}\sqrt{431}e^{25}$	$(\frac{15}{2137}, \frac{30}{2137}, -\frac{435}{2137}, \frac{525}{2137}, \frac{45}{2137}, -\frac{420}{2137}, \frac{555}{2137}, \frac{60}{2137}, \frac{75}{2137})$ $+ \frac{30}{2137}\sqrt{1259}e^1 \otimes e_3 + \frac{780}{2137}e^4 \otimes e_9$	{1248, 235789}
9521:31	$0, 0, 0, 0, \frac{12}{2743}\sqrt{255}e^{12}, \frac{12}{2743}\sqrt{481}e^{13}, \frac{36}{2743}\sqrt{143}e^{24},$ $\frac{84}{2743}\sqrt{15}e^{15}, \frac{24}{2743}\sqrt{205}e^{18} + \frac{12}{2743}\sqrt{863}e^{25}$	$(\frac{42}{2743}, \frac{84}{2743}, -\frac{228}{2743}, -\frac{114}{2743}, \frac{126}{2743}, -\frac{186}{2743}, -\frac{30}{2743}, \frac{168}{2743}, \frac{210}{2743})$ $+ \frac{12}{2743}\sqrt{1570}e^1 \otimes e_7 + \frac{24}{2743}\sqrt{230}e^4 \otimes e_6$	{123459, 2367}
9521:31	$0, 0, 0, 0, \frac{18}{139}\sqrt{14}e^{12}, \frac{2}{139}\sqrt{1610}e^{13}, \frac{2}{139}\sqrt{210}e^{24}, \frac{36}{139}\sqrt{7}e^{15},$ $\frac{6}{139}\sqrt{210}e^{18} + \frac{2}{139}\sqrt{1302}e^{25}$	$(\frac{15}{278}, \frac{15}{139}, -\frac{97}{278}, \frac{9}{139}, \frac{45}{278}, -\frac{41}{139}, \frac{24}{139}, \frac{30}{139}, \frac{75}{278})$ $+ \frac{14}{139}\sqrt{70}e^1 \otimes e_3$	{1248, 1278, 234589, 235789}
9521:31	$0, 0, 0, 0, \frac{8}{2239}\sqrt{32190}e^{12}, \frac{8}{2239}\sqrt{56434}e^{13}, \frac{8}{2239}\sqrt{57478}e^{24},$ $\frac{8}{2239}\sqrt{8990}e^{15}, \frac{16}{2239}\sqrt{435}e^{18} + \frac{8}{2239}\sqrt{10382}e^{25}$	$(\frac{36}{2239}, \frac{72}{2239}, \frac{1266}{2239}, -\frac{662}{2239}, \frac{108}{2239}, \frac{1302}{2239}, -\frac{590}{2239}, \frac{144}{2239}, \frac{180}{2239})$ $+ \frac{16}{2239}\sqrt{27695}e^3 \otimes e_7$	{139, 14679, 356, 457}
9521:31	$0, 0, 0, 0, \frac{36}{1153}\sqrt{39}e^{12}, \frac{126}{1153}\sqrt{5}e^{13}, \frac{18}{1153}\sqrt{335}e^{24}, \frac{18}{1153}\sqrt{157}e^{15},$ $\frac{18}{1153}\sqrt{105}e^{18} + \frac{36}{1153}\sqrt{2}e^{25}$	$(\frac{45}{1153}, \frac{90}{1153}, -\frac{117}{1153}, -\frac{207}{1153}, \frac{135}{1153}, -\frac{72}{1153}, -\frac{117}{1153}, \frac{180}{1153}, \frac{225}{1153})$ $+ \frac{18}{1153}\sqrt{445}e^2 \otimes e_6 + \frac{36}{1153}\sqrt{145}e^1 \otimes e_7$	{12348, 25789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:31	$0, 0, 0, 0, \frac{3}{67}\sqrt{111}e^{12}, \frac{3}{67}\sqrt{65}e^{13}, \frac{3}{67}\sqrt{35}e^{24}, \frac{18}{67}\sqrt{2}e^{15},$ $\frac{3}{67}\sqrt{35}e^{18} + \frac{3}{67}\sqrt{17}e^{25}$	$(\frac{15}{268}, \frac{15}{134}, -\frac{57}{268}, -\frac{21}{134}, \frac{45}{268}, -\frac{21}{134}, -\frac{3}{67}, \frac{15}{67}, \frac{75}{268})$ $+ \frac{30}{67}e^2 \otimes e_4 + \frac{3}{67}\sqrt{145}e^1 \otimes e_3$	{1459, 34}
9521:31	$0, 0, 0, 0, \frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{7}e^{13}, \frac{1}{15}\sqrt{15}e^{24}, \frac{4}{15}\sqrt{6}e^{15},$ $\frac{3}{5}e^{18} + \frac{1}{15}\sqrt{57}e^{25}$	$(\frac{1}{20}, \frac{1}{10}, -\frac{7}{20}, \frac{1}{10}, \frac{3}{20}, -\frac{3}{10}, \frac{1}{5}, \frac{1}{5}, \frac{1}{4})$ $+ \frac{2}{15}\sqrt{3}e^4 \otimes e_6 + \frac{7}{15}\sqrt{3}e^1 \otimes e_3$	{1248, 234589}
9521:31	$0, 0, 0, 0, \frac{2}{47}\sqrt{95}e^{12}, \frac{38}{47}e^{13}, \frac{2}{47}\sqrt{38}e^{24}, \frac{2}{47}\sqrt{190}e^{15},$ $\frac{2}{47}\sqrt{95}e^{18} + \frac{6}{47}\sqrt{38}e^{25}$	$(-\frac{2}{47}, -\frac{4}{47}, \frac{28}{47}, \frac{9}{47}, -\frac{6}{47}, \frac{26}{47}, \frac{5}{47}, -\frac{8}{47}, -\frac{10}{47})$ $+ \frac{4}{47}\sqrt{190}e^3 \otimes e_9$	{1234578, 12358, 24789, 289}
9521:31	$0, 0, 0, 0, \frac{26}{1697}\sqrt{35}e^{12}, \frac{26}{1697}\sqrt{214}e^{13}, \frac{26}{1697}\sqrt{553}e^{24},$ $\frac{26}{1697}\sqrt{470}e^{15}, \frac{52}{1697}\sqrt{155}e^{18} + \frac{78}{1697}\sqrt{38}e^{25}$	$(\frac{13}{1697}, \frac{26}{1697}, \frac{403}{1697}, -\frac{351}{1697}, \frac{39}{1697}, \frac{416}{1697}, -\frac{325}{1697}, \frac{52}{1697}, \frac{65}{1697})$ $+ \frac{156}{1697}\sqrt{30}e^1 \otimes e_7 + \frac{26}{1697}\sqrt{415}e^3 \otimes e_9$	{124569, 2367}
9521:31	$0, 0, 0, 0, \frac{20}{49}\sqrt{2}e^{12}, \frac{5}{147}\sqrt{141}e^{13}, \frac{5}{49}\sqrt{13}e^{24}, \frac{5}{21}\sqrt{3}e^{15},$ $\frac{15}{49}\sqrt{3}e^{18} + \frac{40}{147}\sqrt{6}e^{25}$	$(\frac{5}{98}, \frac{5}{49}, \frac{10}{49}, -\frac{20}{49}, \frac{15}{98}, \frac{25}{98}, -\frac{15}{49}, \frac{10}{49}, \frac{25}{98})$ $+ \frac{5}{147}\sqrt{237}e^3 \otimes e_7 + \frac{5}{147}\sqrt{561}e^2 \otimes e_4$	{134589, 3468}
9521:31	$0, 0, 0, 0, \frac{8}{2239}\sqrt{32190}e^{12}, \frac{8}{2239}\sqrt{56434}e^{13}, \frac{8}{2239}\sqrt{57478}e^{24},$ $\frac{8}{2239}\sqrt{8990}e^{15}, \frac{16}{2239}\sqrt{435}e^{18} + \frac{8}{2239}\sqrt{10382}e^{25}$	$(\frac{36}{2239}, \frac{72}{2239}, -\frac{644}{2239}, \frac{1248}{2239}, \frac{108}{2239}, -\frac{608}{2239}, \frac{1320}{2239}, \frac{144}{2239}, \frac{180}{2239})$ $+ \frac{16}{2239}\sqrt{27695}e^4 \otimes e_6$	{13479, 169, 356, 457}
9521:31	$0, 0, 0, 0, \frac{18}{2761}\sqrt{186}e^{12}, \frac{18}{2761}\sqrt{1317}e^{13}, \frac{18}{2761}\sqrt{577}e^{24},$ $\frac{54}{2761}\sqrt{73}e^{15}, \frac{18}{2761}\sqrt{719}e^{18} + \frac{36}{2761}\sqrt{211}e^{25}$	$(\frac{63}{2761}, \frac{126}{2761}, -\frac{9}{251}, -\frac{387}{2761}, \frac{189}{2761}, -\frac{36}{2761}, -\frac{261}{2761}, \frac{252}{2761}, \frac{315}{2761})$ $+ \frac{18}{2761}\sqrt{1543}e^2 \otimes e_6 + \frac{36}{2761}\sqrt{257}e^3 \otimes e_7$	{1456789, 368}
9521:31	$0, 0, 0, 0, \frac{2}{185}\sqrt{23}e^{12}, \frac{2}{185}\sqrt{86}e^{13}, \frac{2}{185}e^{24}, \frac{4}{185}\sqrt{14}e^{15},$ $\frac{4}{185}\sqrt{10}e^{18} + \frac{2}{185}\sqrt{94}e^{25}$	$(-\frac{1}{185}, -\frac{2}{185}, -\frac{3}{185}, \frac{13}{185}, -\frac{3}{185}, -\frac{4}{185}, \frac{11}{185}, -\frac{4}{185}, -\frac{1}{37})$ $+ \frac{2}{185}\sqrt{102}e^2 \otimes e_6 + \frac{2}{185}\sqrt{71}e^3 \otimes e_9$	{145689, 156789, 3468, 3678}
9521:31	$0, 0, 0, 0, \frac{2}{185}\sqrt{23}e^{12}, \frac{2}{185}\sqrt{86}e^{13}, \frac{2}{185}e^{24}, \frac{4}{185}\sqrt{14}e^{15},$ $\frac{4}{185}\sqrt{10}e^{18} + \frac{2}{185}\sqrt{94}e^{25}$	$(-\frac{1}{185}, -\frac{2}{185}, -\frac{3}{185}, \frac{13}{185}, -\frac{3}{185}, -\frac{4}{185}, \frac{11}{185}, -\frac{4}{185}, -\frac{1}{37})$ $+ \frac{2}{185}\sqrt{102}e^2 \otimes e_6 - \frac{2}{185}\sqrt{71}e^3 \otimes e_9$	{145689, 156789, 3468, 3678}
9521:31	$0, 0, 0, 0, \frac{12}{479}\sqrt{17}e^{12}, \frac{12}{479}\sqrt{17}e^{13}, \frac{4}{479}\sqrt{3791}e^{24}, \frac{4}{479}\sqrt{3791}e^{15},$ $\frac{8}{479}\sqrt{935}e^{18} + \frac{4}{479}\sqrt{3383}e^{25}$	$(\frac{18}{479}, \frac{36}{479}, \frac{60}{479}, -\frac{154}{479}, \frac{54}{479}, \frac{78}{479}, -\frac{118}{479}, \frac{72}{479}, \frac{90}{479})$ $+ \frac{4}{479}\sqrt{6970}e^1 \otimes e_7$	{12348, 12468, 2356789, 25789}
9521:31	$0, 0, 0, 0, \frac{16}{569}\sqrt{163}e^{12}, \frac{16}{569}\sqrt{115}e^{13}, \frac{16}{569}\sqrt{149}e^{24}, \frac{16}{569}\sqrt{133}e^{15},$ $\frac{64}{569}\sqrt{7}e^{18} + \frac{16}{569}\sqrt{321}e^{25}$	$(\frac{4}{569}, \frac{8}{569}, \frac{148}{569}, -\frac{120}{569}, \frac{12}{569}, \frac{152}{569}, -\frac{112}{569}, \frac{16}{569}, \frac{20}{569})$ $+ \frac{16}{569}\sqrt{226}e^3 \otimes e_9 + \frac{48}{569}\sqrt{34}e^2 \otimes e_4$	{145689, 3468}
9521:31	$0, 0, 0, 0, \frac{42}{3025}\sqrt{742}e^{12}, \frac{42}{3025}\sqrt{647}e^{13}, \frac{126}{3025}\sqrt{141}e^{24},$ $\frac{42}{3025}\sqrt{110}e^{15}, \frac{42}{3025}\sqrt{587}e^{18} + \frac{84}{3025}\sqrt{10}e^{25}$	$(-\frac{21}{605}, -\frac{42}{605}, \frac{1029}{3025}, \frac{357}{3025}, -\frac{63}{605}, \frac{84}{275}, \frac{147}{3025}, -\frac{84}{605}, -\frac{21}{121})$ $+ \frac{42}{3025}\sqrt{1349}e^4 \otimes e_9 + \frac{42}{3025}\sqrt{1399}e^3 \otimes e_7$	{139, 457}
9521:31	$0, 0, 0, 0, \frac{18}{139}\sqrt{14}e^{12}, \frac{4}{139}\sqrt{455}e^{13}, \frac{2}{139}\sqrt{210}e^{24}, \frac{2}{139}\sqrt{1162}e^{15},$ $\frac{4}{139}\sqrt{385}e^{18} + \frac{8}{139}\sqrt{133}e^{25}$	$(\frac{15}{278}, \frac{15}{139}, -\frac{97}{278}, \frac{9}{139}, \frac{45}{278}, -\frac{41}{139}, \frac{24}{139}, \frac{30}{139}, \frac{75}{278})$ $+ \frac{14}{139}\sqrt{70}e^2 \otimes e_6$	{1456789, 15689, 34678, 368}
9521:31	$0, 0, 0, 0, \frac{4}{145}\sqrt{145}e^{12}, \frac{32}{145}\sqrt{5}e^{13}, \frac{8}{145}\sqrt{35}e^{24}, \frac{4}{29}\sqrt{5}e^{15},$ $\frac{4}{145}\sqrt{35}e^{18} + \frac{4}{145}\sqrt{115}e^{25}$	$(-\frac{1}{29}, -\frac{2}{29}, \frac{3}{29}, \frac{10}{29}, -\frac{3}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{4}{29}, -\frac{5}{29})$ $+ \frac{4}{145}\sqrt{330}e^4 \otimes e_6 + \frac{4}{145}\sqrt{335}e^3 \otimes e_9$	{123458, 2489}
9521:31	$0, 0, 0, 0, \frac{24}{2071}\sqrt{4921}e^{12}, \frac{40}{2071}\sqrt{111}e^{13}, \frac{8}{2071}\sqrt{29045}e^{24},$ $\frac{8}{2071}\sqrt{15207}e^{15}, \frac{72}{2071}\sqrt{370}e^{18} + \frac{24}{2071}\sqrt{5587}e^{25}$	$(\frac{150}{2071}, \frac{300}{2071}, \frac{126}{2071}, -\frac{884}{2071}, \frac{450}{2071}, \frac{276}{2071}, -\frac{584}{2071}, \frac{600}{2071}, \frac{750}{2071})$ $+ \frac{8}{2071}\sqrt{69190}e^2 \otimes e_4$	{134589, 145689, 3468, 48}
9521:32	$0, 0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{165}e^{34}, \frac{3}{23}\sqrt{22}e^{13} + \frac{1}{23}\sqrt{209}e^{24},$ $\frac{3}{23}\sqrt{11}e^{15}, \frac{2}{23}\sqrt{66}e^{18} + \frac{1}{23}\sqrt{22}e^{25}$	$(-\frac{1}{23}, -\frac{2}{23}, \frac{5}{23}, \frac{6}{23}, -\frac{3}{23}, \frac{11}{23}, \frac{4}{23}, -\frac{4}{23}, -\frac{5}{23})$ $+ \frac{1}{23}\sqrt{429}e^4 \otimes e_9$	{1235679, 234}
9521:32	$0, 0, 0, 0, \frac{13}{179}\sqrt{6}e^{12}, \frac{13}{1253}\sqrt{2406}e^{34}, \frac{143}{1253}\sqrt{30}e^{13} + \frac{39}{1253}\sqrt{370}e^{24},$ $\frac{117}{1253}\sqrt{30}e^{15}, \frac{26}{1253}\sqrt{78}e^{18} + \frac{13}{1253}\sqrt{4530}e^{25}$	$(-\frac{52}{1253}, -\frac{104}{1253}, \frac{247}{1253}, \frac{299}{1253}, -\frac{156}{1253}, \frac{78}{179}, \frac{195}{1253}, -\frac{208}{1253}, -\frac{260}{1253})$ $+ \frac{26}{1253}\sqrt{1662}e^3 \otimes e_9$	{15789, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:32	$0, 0, 0, 0, \frac{387}{3997}\sqrt{46}e^{12}, \frac{516}{3997}\sqrt{22}e^{34},$ $\frac{172}{3997}\sqrt{66}e^{13} + \frac{43}{3997}\sqrt{454}e^{24}, \frac{516}{3997}\sqrt{3}e^{15}, \frac{129}{3997}\sqrt{186}e^{18} + \frac{43}{3997}\sqrt{3518}e^{25}$	$(\frac{43}{571}, \frac{86}{571}, -\frac{473}{3997}, -\frac{774}{3997}, \frac{129}{571}, -\frac{1247}{3997}, -\frac{172}{3997}, \frac{172}{571}, \frac{215}{571})$ $+ \frac{86}{3997}\sqrt{1707}e^2 \otimes e_6$	{1356789, 145689}
9521:32	$0, 0, 0, 0, \frac{380}{2093}\sqrt{6}e^{12}, \frac{76}{2093}\sqrt{210}e^{34}, \frac{76}{2093}\sqrt{70}e^{13} + \frac{38}{299}\sqrt{3}e^{24},$ $\frac{76}{2093}\sqrt{230}e^{15}, \frac{456}{2093}\sqrt{5}e^{18} + \frac{114}{2093}\sqrt{43}e^{25}$	$(\frac{19}{299}, \frac{38}{299}, -\frac{228}{2093}, -\frac{361}{2093}, \frac{57}{299}, -\frac{589}{2093}, -\frac{95}{2093}, \frac{76}{299}, \frac{95}{299})$ $- \frac{38}{2093}\sqrt{1761}e^1 \otimes e_6$	{123478, 128, 235689, 2456789}
9521:32	$0, 0, 0, 0, \frac{380}{2093}\sqrt{6}e^{12}, \frac{76}{2093}\sqrt{210}e^{34}, \frac{76}{2093}\sqrt{70}e^{13} + \frac{38}{299}\sqrt{3}e^{24},$ $\frac{76}{2093}\sqrt{230}e^{15}, \frac{456}{2093}\sqrt{5}e^{18} + \frac{114}{2093}\sqrt{43}e^{25}$	$(\frac{19}{299}, \frac{38}{299}, -\frac{228}{2093}, -\frac{361}{2093}, \frac{57}{299}, -\frac{589}{2093}, -\frac{95}{2093}, \frac{76}{299}, \frac{95}{299})$ $+ \frac{38}{2093}\sqrt{1761}e^1 \otimes e_6$	{123478, 128, 235689, 2456789}
9521:33	$0, 0, 0, 0, \frac{156}{4661}\sqrt{62}e^{12}, \frac{78}{4661}\sqrt{1149}e^{13}, \frac{156}{4661}\sqrt{146}e^{34},$ $\frac{234}{4661}\sqrt{6}e^{15}, \frac{39}{4661}\sqrt{922}e^{18} + \frac{39}{4661}\sqrt{3110}e^{36}$	$(\frac{741}{4661}, -\frac{780}{4661}, \frac{351}{4661}, -\frac{1170}{4661}, -\frac{39}{4661}, \frac{1092}{4661}, -\frac{819}{4661}, \frac{702}{4661}, \frac{1443}{4661})$ $+ \frac{195}{4661}\sqrt{130}e^1 \otimes e_2 + \frac{39}{4661}\sqrt{5374}e^3 \otimes e_4$	{2368, 248}
9521:33	$0, 0, 0, 0, \frac{52}{2407}\sqrt{177}e^{12}, \frac{52}{2407}\sqrt{1626}e^{13}, \frac{52}{2407}\sqrt{941}e^{34},$ $\frac{52}{2407}\sqrt{471}e^{15}, \frac{1092}{2407}\sqrt{2}e^{18} + \frac{52}{2407}\sqrt{1410}e^{36}$	$(\frac{117}{2407}, \frac{390}{2407}, \frac{312}{2407}, -\frac{1040}{2407}, \frac{507}{2407}, \frac{429}{2407}, -\frac{728}{2407}, \frac{624}{2407}, \frac{741}{2407})$ $+ \frac{52}{2407}\sqrt{2194}e^3 \otimes e_4$	{123589, 1245689, 2368, 248}
9521:33	$0, 0, 0, 0, \frac{54}{6925}\sqrt{986}e^{12}, \frac{54}{6925}\sqrt{582}e^{13}, \frac{27}{6925}\sqrt{4170}e^{34},$ $\frac{27}{6925}\sqrt{3902}e^{15}, \frac{27}{6925}\sqrt{4346}e^{18} + \frac{54}{6925}\sqrt{201}e^{36}$	$(-\frac{243}{6925}, \frac{216}{6925}, \frac{297}{6925}, \frac{1269}{6925}, \frac{837}{6925}, \frac{54}{6925}, -\frac{972}{6925}, \frac{594}{6925}, \frac{351}{6925})$ $+ \frac{27}{6925}\sqrt{7746}e^1 \otimes e_7 + \frac{54}{6925}\sqrt{1118}e^2 \otimes e_9$	{134569, 159}
9521:33	$0, 0, 0, 0, \frac{70}{2761}\sqrt{299}e^{12}, \frac{70}{2761}\sqrt{421}e^{13}, \frac{140}{2761}\sqrt{19}e^{34},$ $\frac{140}{2761}\sqrt{195}e^{15}, \frac{70}{2761}\sqrt{941}e^{18} + \frac{140}{2761}\sqrt{46}e^{36}$	$(\frac{918}{2761}, -\frac{1532}{2761}, \frac{152}{2761}, \frac{389}{2761}, -\frac{614}{2761}, \frac{1070}{2761}, \frac{541}{2761}, \frac{304}{2761}, \frac{1222}{2761})$ $+ \frac{140}{2761}\sqrt{574}e^1 \otimes e_2$	{1348, 1378, 14678, 168}
9521:33	$0, 0, 0, 0, \frac{4}{31}\sqrt{39}e^{12}, \frac{4}{31}\sqrt{30}e^{13}, \frac{12}{31}\sqrt{5}e^{34}, \frac{4}{31}\sqrt{15}e^{15},$ $\frac{4}{31}\sqrt{6}e^{18} + \frac{8}{31}\sqrt{3}e^{36}$	$(-\frac{5}{31}, \frac{18}{31}, \frac{4}{31}, -\frac{10}{31}, \frac{13}{31}, -\frac{1}{31}, -\frac{6}{31}, \frac{8}{31}, \frac{3}{31})$ $+ \frac{4}{31}\sqrt{78}e^2 \otimes e_7$	{135679, 14579, 37, 467}
9521:33	$0, 0, 0, 0, \frac{78}{4853}\sqrt{187}e^{12}, \frac{39}{4853}\sqrt{3462}e^{13}, \frac{234}{4853}\sqrt{67}e^{34},$ $\frac{312}{4853}\sqrt{14}e^{15}, \frac{39}{4853}\sqrt{1526}e^{18} + \frac{78}{4853}\sqrt{1137}e^{36}$	$(-\frac{507}{4853}, \frac{1716}{4853}, \frac{351}{4853}, -\frac{1170}{4853}, \frac{1209}{4853}, -\frac{156}{4853}, \frac{819}{4853}, \frac{702}{4853}, \frac{195}{4853})$ $+ \frac{117}{4853}\sqrt{614}e^3 \otimes e_4 + \frac{39}{4853}\sqrt{3406}e^2 \otimes e_9$	{13589, 145689}
9521:33	$0, 0, 0, 0, \frac{6}{3917}\sqrt{597}e^{12}, \frac{42}{3917}\sqrt{17}e^{13}, \frac{6}{3917}\sqrt{1747}e^{34}, \frac{6}{3917}\sqrt{1113}e^{15},$ $\frac{36}{3917}\sqrt{43}e^{18} + \frac{6}{3917}\sqrt{491}e^{36}$	$(\frac{81}{3917}, -\frac{186}{3917}, -\frac{12}{3917}, \frac{75}{3917}, -\frac{105}{3917}, \frac{69}{3917}, \frac{63}{3917}, -\frac{24}{3917}, \frac{57}{3917})$ $+ \frac{6}{3917}\sqrt{1411}e^4 \otimes e_9 + \frac{6}{3917}\sqrt{2095}e^1 \otimes e_7$	{159, 467}
9521:33	$0, 0, 0, 0, \frac{16}{1463}\sqrt{1545}e^{12}, \frac{2}{1463}\sqrt{61285}e^{13}, \frac{1}{1463}\sqrt{697310}e^{34},$ $\frac{9}{1463}\sqrt{7210}e^{15}, \frac{3}{1463}\sqrt{62830}e^{18} + \frac{10}{1463}\sqrt{3399}e^{36}$	$(\frac{201}{1463}, -\frac{148}{1463}, \frac{127}{1463}, -\frac{63}{209}, \frac{53}{1463}, \frac{328}{1463}, -\frac{314}{1463}, \frac{254}{1463}, \frac{65}{209})$ $+ \frac{1}{1463}\sqrt{1263810}e^1 \otimes e_7$	{134569, 159, 37, 467}
9521:33	$0, 0, 0, 0, \frac{14}{1413}\sqrt{23}e^{12}, \frac{14}{1413}\sqrt{4163}e^{13}, \frac{14}{1413}\sqrt{713}e^{34},$ $\frac{14}{1413}\sqrt{2323}e^{15}, \frac{64}{1413}\sqrt{3}e^{18} + \frac{7}{1413}\sqrt{4646}e^{36}$	$(-\frac{166}{1413}, \frac{226}{1413}, -\frac{53}{1413}, \frac{95}{157}, \frac{20}{471}, -\frac{73}{471}, \frac{802}{471}, \frac{106}{1413}, -\frac{272}{1413})$ $+ \frac{7}{1413}\sqrt{53774}e^4 \otimes e_9$	{123468, 12478, 235789, 25689}
9521:33	$0, 0, 0, 0, \frac{6}{2849}\sqrt{125629}e^{12}, \frac{6}{2849}\sqrt{61239}e^{13}, \frac{36}{2849}\sqrt{274}e^{34},$ $\frac{48}{2849}\sqrt{685}e^{15}, \frac{6}{2849}\sqrt{74665}e^{18} + \frac{12}{2849}\sqrt{25482}e^{36}$	$(-\frac{822}{2849}, \frac{276}{407}, \frac{144}{2849}, \frac{63}{407}, \frac{30}{77}, -\frac{678}{2849}, \frac{585}{2849}, \frac{288}{2849}, -\frac{534}{2849})$ $+ \frac{24}{2849}\sqrt{20002}e^2 \otimes e_9$	{123468, 123678, 12478, 128}
9521:33	$0, 0, 0, 0, \frac{52}{491}\sqrt{21}e^{12}, \frac{13}{491}\sqrt{354}e^{13}, \frac{26}{491}\sqrt{163}e^{34}, \frac{26}{491}\sqrt{129}e^{15},$ $\frac{78}{491}\sqrt{15}e^{18} + \frac{26}{491}\sqrt{102}e^{36}$	$(\frac{78}{491}, -\frac{78}{491}, \frac{39}{491}, -\frac{130}{491}, 0, \frac{117}{491}, -\frac{91}{491}, \frac{78}{491}, \frac{156}{491})$ $+ \frac{169}{491}\sqrt{6}e^1 \otimes e_7 + \frac{26}{491}\sqrt{53}e^3 \otimes e_4$	{134569, 159}
9521:33	$0, 0, 0, 0, \frac{172}{7465}\sqrt{199}e^{12}, \frac{43}{7465}\sqrt{4618}e^{13}, \frac{43}{7465}\sqrt{6742}e^{34},$ $\frac{43}{1493}\sqrt{82}e^{15}, \frac{43}{7465}\sqrt{3410}e^{18} + \frac{43}{7465}\sqrt{678}e^{36}$	$(-\frac{1247}{7465}, \frac{516}{1493}, \frac{43}{7465}, \frac{688}{7465}, \frac{1333}{7465}, -\frac{1204}{7465}, \frac{731}{7465}, \frac{86}{7465}, -\frac{1161}{7465})$ $+ \frac{43}{7465}\sqrt{6586}e^4 \otimes e_9 + \frac{86}{7465}\sqrt{1703}e^2 \otimes e_7$	{135679, 467}
9521:33	$0, 0, 0, 0, \frac{14}{145}\sqrt{5}e^{12}, \frac{21}{145}\sqrt{2}e^{13}, \frac{7}{145}\sqrt{62}e^{34}, \frac{7}{145}\sqrt{58}e^{15},$ $\frac{7}{145}\sqrt{110}e^{18} + \frac{7}{145}\sqrt{2}e^{36}$	$(\frac{13}{145}, -\frac{36}{145}, -\frac{1}{29}, \frac{52}{145}, -\frac{23}{145}, \frac{8}{145}, \frac{47}{145}, -\frac{2}{29}, \frac{3}{145})$ $+ \frac{14}{145}\sqrt{31}e^1 \otimes e_2 + \frac{7}{145}\sqrt{134}e^4 \otimes e_9$	{234, 2467}
9521:34	$0, 0, 0, 0, \frac{4}{753}\sqrt{6441}e^{12}, \frac{2}{753}\sqrt{17967}e^{13}, \frac{2}{753}\sqrt{40341}e^{34},$ $\frac{2}{753}\sqrt{28363}e^{25}, \frac{4}{753}\sqrt{6441}e^{28} + \frac{2}{753}\sqrt{17967}e^{36}$	$(\frac{13}{251}, \frac{46}{753}, \frac{23}{251}, -\frac{83}{251}, \frac{85}{753}, \frac{36}{251}, -\frac{60}{251}, \frac{131}{753}, \frac{59}{251})$ $+ \frac{2}{753}\sqrt{72885}e^2 \otimes e_7$	{1356789, 145789, 37, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:34	$0, 0, 0, 0, \frac{14}{5029}\sqrt{898e^{12}}, \frac{182}{5029}\sqrt{5e^{13}}, \frac{14}{5029}\sqrt{2131e^{34}},$ $\frac{14}{5029}\sqrt{1133e^{25}}, \frac{70}{5029}\sqrt{62e^{28}} + \frac{14}{5029}\sqrt{519e^{36}}$	$(\frac{441}{5029}, -\frac{182}{5029}, -\frac{273}{5029}, -\frac{7}{5029}, \frac{259}{5029}, \frac{168}{5029}, -\frac{280}{5029}, \frac{77}{5029}, -\frac{105}{5029})$ $+\frac{14}{5029}\sqrt{1630e^4} \otimes e_9 + \frac{14}{5029}\sqrt{2905e^2} \otimes e_7$	{1356789, 467}
9521:34	$0, 0, 0, 0, \frac{2}{713}\sqrt{14943e^{12}}, \frac{4}{713}\sqrt{22854e^{13}}, \frac{4}{713}\sqrt{12599e^{34}},$ $\frac{12}{713}\sqrt{293e^{25}}, \frac{2}{713}\sqrt{14943e^{28}} + \frac{4}{713}\sqrt{22854e^{36}}$	$(-\frac{153}{713}, \frac{174}{713}, \frac{261}{713}, -\frac{325}{713}, \frac{21}{713}, \frac{108}{713}, -\frac{64}{713}, \frac{195}{713}, \frac{369}{713})$ $+\frac{22}{713}\sqrt{1465e^3} \otimes e_4$	{139, 1469, 3568, 458}
9521:34	$0, 0, 0, 0, \frac{7}{379}\sqrt{1582e^{12}}, \frac{7}{379}\sqrt{714e^{13}}, \frac{7}{379}\sqrt{1582e^{34}}, \frac{7}{379}\sqrt{322e^{25}},$ $\frac{7}{379}\sqrt{154e^{28}} + \frac{7}{379}\sqrt{154e^{36}}$	$(\frac{215}{379}, -\frac{56}{379}, -\frac{84}{379}, -\frac{44}{379}, \frac{159}{379}, \frac{131}{379}, -\frac{128}{379}, \frac{103}{379}, \frac{47}{379})$ $+\frac{14}{379}\sqrt{1085e^1} \otimes e_7$	{13458, 1568, 3679, 479}
9521:34	$0, 0, 0, 0, \frac{118}{8123}\sqrt{402e^{12}}, \frac{59}{8123}\sqrt{4854e^{13}}, \frac{118}{8123}\sqrt{19e^{34}},$ $\frac{354}{8123}\sqrt{17e^{25}}, \frac{118}{8123}\sqrt{273e^{28}} + \frac{236}{8123}\sqrt{219e^{36}}$	$(\frac{1062}{8123}, \frac{354}{8123}, \frac{531}{8123}, -\frac{2950}{8123}, \frac{1416}{8123}, \frac{1593}{8123}, -\frac{2419}{8123}, \frac{1770}{8123}, \frac{2124}{8123})$ $+\frac{118}{8123}\sqrt{1915e^3} \otimes e_4 + \frac{885}{8123}\sqrt{30e^1} \otimes e_7$	{23567, 2457}
9521:34	$0, 0, 0, 0, \frac{9}{1411}\sqrt{2562e^{12}}, \frac{9}{1411}\sqrt{826e^{13}}, \frac{9}{1411}\sqrt{6034e^{34}}, \frac{9}{1411}\sqrt{798e^{25}},$ $\frac{9}{1411}\sqrt{2562e^{28}} + \frac{9}{1411}\sqrt{826e^{36}}$	$(\frac{549}{1411}, -\frac{252}{1411}, -\frac{378}{1411}, \frac{360}{1411}, \frac{297}{1411}, \frac{171}{1411}, -\frac{18}{1411}, \frac{45}{1411}, -\frac{207}{1411})$ $+\frac{18}{1411}\sqrt{2170e^1} \otimes e_7 + \frac{18}{1411}\sqrt{2170e^4} \otimes e_9$	{15689, 47}
9521:34	$0, 0, 0, 0, \frac{7}{379}\sqrt{154e^{12}}, \frac{7}{379}\sqrt{154e^{13}}, \frac{7}{379}\sqrt{1582e^{34}}, \frac{7}{379}\sqrt{322e^{25}},$ $\frac{7}{379}\sqrt{1582e^{28}} + \frac{7}{379}\sqrt{714e^{36}}$	$(\frac{91}{379}, -\frac{56}{379}, -\frac{84}{379}, \frac{266}{379}, \frac{35}{379}, \frac{7}{379}, \frac{182}{379}, -\frac{21}{379}, -\frac{77}{379})$ $+\frac{14}{379}\sqrt{1085e^4} \otimes e_9$	{1346, 147, 35789, 5689}
9521:35	$0, 0, 0, 0, \frac{7}{373}\sqrt{10e^{12}}, \frac{14}{373}\sqrt{47e^{13}}, \frac{7}{373}\sqrt{482e^{23}}, \frac{56}{373}\sqrt{7e^{15}},$ $\frac{7}{373}\sqrt{482e^{18}} + \frac{7}{373}\sqrt{410e^{25}} + \frac{14}{373}\sqrt{23e^{34}}$	$(\frac{7}{373}, \frac{14}{373}, -\frac{56}{373}, \frac{91}{373}, \frac{21}{373}, -\frac{49}{373}, -\frac{42}{373}, \frac{28}{373}, \frac{35}{373})$ $+\frac{28}{373}\sqrt{41e^1} \otimes e_7$	{1234569, 2467}
9521:35	$0, 0, 0, 0, \frac{5}{593}\sqrt{2010e^{12}}, \frac{40}{593}\sqrt{65e^{13}}, \frac{55}{593}\sqrt{10e^{23}}, \frac{10}{593}\sqrt{715e^{15}},$ $\frac{25}{593}\sqrt{122e^{18}} + \frac{5}{593}\sqrt{4830e^{25}} + \frac{60}{593}\sqrt{10e^{34}}$	$(\frac{15}{593}, \frac{30}{593}, -\frac{110}{593}, \frac{185}{593}, \frac{45}{593}, -\frac{95}{593}, -\frac{80}{593}, \frac{60}{593}, \frac{75}{593})$ $+\frac{20}{593}\sqrt{345e^2} \otimes e_6$	{156789, 368}
9521:35	$0, 0, 0, 0, \frac{26}{205}\sqrt{6e^{12}}, \frac{13}{205}\sqrt{166e^{13}}, \frac{52}{205}\sqrt{13e^{23}}, \frac{13}{205}\sqrt{134e^{15}},$ $\frac{26}{205}\sqrt{23e^{18}} + \frac{13}{205}\sqrt{174e^{25}} + \frac{13}{205}\sqrt{6e^{34}}$	$(\frac{13}{205}, \frac{26}{205}, -\frac{13}{41}, \frac{26}{205}, \frac{39}{205}, -\frac{52}{205}, -\frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205}\sqrt{87e^4} \otimes e_7$	{234, 267}
9521:36	$0, 0, 0, 0, \frac{19}{2209}\sqrt{906e^{12}}, \frac{57}{2209}\sqrt{110e^{13}},$ $\frac{57}{2209}\sqrt{330e^{14}} + \frac{19}{2209}\sqrt{2170e^{23}}, \frac{76}{2209}\sqrt{237e^{15}}, \frac{19}{2209}\sqrt{3490e^{18}} + \frac{19}{2209}\sqrt{2998e^{25}}$	$(\frac{95}{2209}, \frac{190}{2209}, -\frac{361}{2209}, -\frac{266}{2209}, \frac{285}{2209}, -\frac{266}{2209}, -\frac{171}{2209}, \frac{380}{2209}, \frac{475}{2209})$ $+\frac{114}{2209}\sqrt{110e^1} \otimes e_4$	{12368, 234589}
9521:36	$0, 0, 0, 0, \frac{105}{2113}\sqrt{14e^{12}}, \frac{35}{2113}\sqrt{942e^{13}},$ $\frac{105}{2113}\sqrt{314e^{14}} + \frac{35}{2113}\sqrt{2094e^{23}}, \frac{70}{2113}\sqrt{534e^{15}}, \frac{35}{2113}\sqrt{838e^{18}} + \frac{35}{2113}\sqrt{3098e^{25}}$	$(-\frac{105}{2113}, -\frac{210}{2113}, \frac{805}{2113}, \frac{700}{2113}, -\frac{315}{2113}, \frac{700}{2113}, \frac{595}{2113}, -\frac{420}{2113}, -\frac{525}{2113})$ $+\frac{70}{2113}\sqrt{942e^4} \otimes e_9$	{134, 3569}
9521:36	$0, 0, 0, 0, \frac{13}{253}\sqrt{102e^{12}}, \frac{78}{253}\sqrt{3e^{13}}, \frac{78}{253}\sqrt{3e^{14}} + \frac{13}{253}\sqrt{190e^{23}},$ $\frac{26}{253}\sqrt{3e^{15}}, \frac{13}{253}\sqrt{190e^{18}} + \frac{13}{253}\sqrt{38e^{25}}$	$(-\frac{13}{253}, -\frac{26}{253}, \frac{104}{253}, \frac{91}{253}, -\frac{39}{253}, \frac{91}{253}, \frac{78}{253}, -\frac{52}{253}, -\frac{65}{253})$ $+\frac{156}{253}\sqrt{3e^3} \otimes e_9$	{13478, 4589}
9521:36	$0, 0, 0, 0, \frac{69}{2101}\sqrt{186e^{12}}, \frac{552}{2101}\sqrt{5e^{13}},$ $\frac{184}{2101}\sqrt{15e^{14}} + \frac{299}{2101}\sqrt{10e^{23}}, \frac{138}{2101}\sqrt{67e^{15}}, \frac{69}{2101}\sqrt{330e^{18}} + \frac{23}{2101}\sqrt{3758e^{25}}$	$(\frac{115}{2101}, \frac{230}{2101}, -\frac{414}{2101}, -\frac{299}{2101}, \frac{345}{2101}, -\frac{299}{2101}, -\frac{184}{2101}, \frac{460}{2101}, \frac{575}{2101})$ $+\frac{368}{2101}\sqrt{15e^2} \otimes e_6$	{156789, 368}
9521:37	$0, 0, 0, 0, \frac{609}{2029}\sqrt{6e^{12}}, \frac{29}{2029}\sqrt{510e^{13}}, \frac{580}{2029}\sqrt{6e^{14}} + \frac{1160}{2029}e^{23},$ $\frac{58}{2029}\sqrt{422e^{25}}, \frac{29}{2029}\sqrt{3742e^{15}} + \frac{29}{2029}\sqrt{2570e^{28}}$	$(\frac{290}{2029}, \frac{145}{2029}, -\frac{406}{2029}, -\frac{551}{2029}, \frac{435}{2029}, -\frac{116}{2029}, -\frac{261}{2029}, \frac{580}{2029}, \frac{725}{2029})$ $+\frac{174}{2029}\sqrt{105e^1} \otimes e_4$	{234589, 468}
9521:37	$0, 0, 0, 0, \frac{3}{47}\sqrt{17e^{12}}, \frac{1}{47}\sqrt{246e^{13}}, \frac{1}{47}\sqrt{246e^{14}} + \frac{1}{47}\sqrt{249e^{23}},$ $\frac{8}{47}\sqrt{3e^{25}}, \frac{10}{47}\sqrt{3e^{15}} + \frac{9}{47}\sqrt{3e^{28}}$	$(-\frac{2}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{3}{47}, \frac{4}{47}, -\frac{4}{47}, -\frac{5}{47})$ $+\frac{1}{47}\sqrt{255e^4} \otimes e_6$	{134, 167}
9521:37	$0, 0, 0, 0, \frac{123}{2389}\sqrt{134e^{12}}, \frac{82}{2389}\sqrt{159e^{13}}, \frac{861}{2389}\sqrt{6e^{14}} + \frac{1722}{2389}e^{23},$ $\frac{246}{2389}\sqrt{31e^{25}}, \frac{41}{2389}\sqrt{826e^{15}} + \frac{41}{2389}\sqrt{2858e^{28}}$	$(-\frac{246}{2389}, -\frac{123}{2389}, \frac{943}{2389}, \frac{1066}{2389}, -\frac{369}{2389}, \frac{697}{2389}, \frac{820}{2389}, -\frac{492}{2389}, -\frac{615}{2389})$ $+\frac{82}{2389}\sqrt{1005e^4} \otimes e_9$	{123579, 134}
9521:37	$0, 0, 0, 0, \frac{13}{2461}\sqrt{426e^{12}}, \frac{13}{2461}\sqrt{3390e^{13}},$ $\frac{78}{2461}\sqrt{35e^{14}} + \frac{26}{2461}\sqrt{565e^{23}}, \frac{26}{2461}\sqrt{917e^{25}}, \frac{91}{2461}\sqrt{78e^{15}} + \frac{13}{2461}\sqrt{3810e^{28}}$	$(\frac{130}{2461}, \frac{65}{2461}, -\frac{234}{2461}, -\frac{13}{107}, \frac{195}{2461}, -\frac{104}{2461}, -\frac{169}{2461}, \frac{260}{2461}, \frac{325}{2461})$ $+\frac{26}{2461}\sqrt{1065e^2} \otimes e_6$	{123579, 167}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:37	$0, 0, 0, 0, \frac{37}{2221}\sqrt{390e^{12}}, \frac{37}{2221}\sqrt{642e^{13}},$ $\frac{74}{2221}\sqrt{327e^{14}} + \frac{74}{2221}\sqrt{543e^{23}} + \frac{222}{2221}\sqrt{34e^{25}} + \frac{37}{2221}\sqrt{2042e^{15}} + \frac{37}{2221}\sqrt{206e^{28}}$	$(-\frac{222}{2221}, -\frac{111}{2221}, \frac{814}{2221}, \frac{925}{2221}, -\frac{333}{2221}, \frac{592}{2221}, \frac{703}{2221}, -\frac{444}{2221}, -\frac{555}{2221})$ $+\frac{370}{2221}\sqrt{39e^3} \otimes e_9$	{12358, 1689}
9521:38	$0, 0, 0, 0, \frac{54}{3341}\sqrt{355e^{12}}, \frac{54}{3341}\sqrt{1070e^{13}}, \frac{27}{3341}\sqrt{1202e^{14}},$ $\frac{27}{3341}\sqrt{3370e^{15}}, \frac{162}{3341}\sqrt{85e^{18}} + \frac{27}{3341}\sqrt{5154e^{25}} + \frac{135}{3341}\sqrt{94e^{34}}$	$(\frac{27}{3341}, \frac{54}{3341}, -\frac{54}{257}, \frac{837}{3341}, \frac{81}{3341}, -\frac{675}{3341}, \frac{864}{3341}, \frac{108}{3341}, \frac{135}{3341})$ $+\frac{486}{3341}\sqrt{19e^2} \otimes e_6$	{156789, 368}
9521:38	$0, 0, 0, 0, \frac{9}{146}\sqrt{57e^{12}}, \frac{9}{292}\sqrt{705e^{13}}, \frac{9}{292}\sqrt{705e^{14}}, \frac{9}{292}\sqrt{510e^{15}},$ $\frac{81}{292}\sqrt{6e^{18}} + \frac{27}{146}\sqrt{10e^{25}} + \frac{9}{146}\sqrt{39e^{34}}$	$(\frac{9}{292}, \frac{9}{146}, \frac{297}{584}, -\frac{207}{584}, \frac{27}{292}, \frac{315}{584}, -\frac{189}{584}, \frac{9}{73}, \frac{45}{292})$ $-\frac{27}{146}\sqrt{42e^3} \otimes e_7$	{134, 167, 3569, 4579}
9521:38	$0, 0, 0, 0, \frac{9}{146}\sqrt{57e^{12}}, \frac{9}{292}\sqrt{705e^{13}}, \frac{9}{292}\sqrt{705e^{14}}, \frac{9}{292}\sqrt{510e^{15}},$ $\frac{81}{292}\sqrt{6e^{18}} + \frac{27}{146}\sqrt{10e^{25}} + \frac{9}{146}\sqrt{39e^{34}}$	$(\frac{9}{292}, \frac{9}{146}, \frac{297}{584}, -\frac{207}{584}, \frac{27}{292}, \frac{315}{584}, -\frac{189}{584}, \frac{9}{73}, \frac{45}{292})$ $+\frac{27}{146}\sqrt{42e^3} \otimes e_7$	{134, 167, 3569, 4579}
9521:39	$0, 0, 0, 0, \frac{29}{4333}\sqrt{758e^{12}}, \frac{29}{4333}\sqrt{4790e^{13}}, \frac{58}{4333}\sqrt{255e^{14}},$ $\frac{58}{4333}\sqrt{1059e^{25}}, \frac{29}{4333}\sqrt{4042e^{15}} + \frac{87}{4333}\sqrt{570e^{28}} + \frac{58}{4333}\sqrt{481e^{34}}$	$(\frac{58}{4333}, \frac{29}{4333}, -\frac{870}{4333}, \frac{145}{619}, \frac{87}{4333}, -\frac{116}{619}, \frac{1073}{4333}, \frac{116}{4333}, \frac{145}{4333})$ $+\frac{58}{4333}\sqrt{1885e^2} \otimes e_6$	{123459, 146}
9521:39	$0, 0, 0, 0, \frac{29}{1069}\sqrt{598e^{12}}, \frac{58}{1069}\sqrt{205e^{13}}, \frac{58}{1069}\sqrt{205e^{14}},$ $\frac{29}{1069}\sqrt{386e^{25}}, \frac{29}{1069}\sqrt{818e^{15}} + \frac{29}{1069}\sqrt{494e^{28}} + \frac{29}{1069}\sqrt{274e^{34}}$	$(\frac{58}{1069}, \frac{29}{1069}, \frac{522}{1069}, -\frac{377}{1069}, \frac{87}{1069}, \frac{580}{1069}, -\frac{319}{1069}, \frac{116}{1069}, \frac{145}{1069})$ $+\frac{29}{1069}\sqrt{1798e^3} \otimes e_7$	{134, 167}
9521:40	$0, 0, 0, 0, \frac{1}{65}\sqrt{322e^{12}}, \frac{2}{65}\sqrt{287e^{13}}, \frac{1}{65}\sqrt{322e^{24}}, \frac{1}{65}\sqrt{714e^{15}},$ $\frac{2}{65}\sqrt{154e^{18}} + \frac{2}{65}\sqrt{287e^{25}} + \frac{2}{65}\sqrt{154e^{34}}$	$(\frac{1}{130}, \frac{1}{65}, -\frac{27}{130}, \frac{16}{65}, \frac{3}{130}, -\frac{1}{5}, \frac{17}{65}, \frac{2}{65}, \frac{1}{26})$ $+\frac{7}{65}\sqrt{34e^2} \otimes e_6$	{15689, 368}
9521:40	$0, 0, 0, 0, \frac{28}{485}\sqrt{101e^{12}}, \frac{28}{485}\sqrt{187e^{13}}, \frac{28}{485}\sqrt{194e^{24}}, \frac{28}{485}\sqrt{22e^{15}},$ $\frac{28}{485}\sqrt{6e^{18}} + \frac{196}{485}e^{25} + \frac{28}{485}\sqrt{53e^{34}}$	$(\frac{14}{485}, \frac{28}{485}, \frac{49}{97}, -\frac{35}{97}, \frac{42}{485}, \frac{259}{485}, -\frac{147}{485}, \frac{56}{485}, \frac{14}{97})$ $+\frac{28}{485}\sqrt{413e^3} \otimes e_7$	{23468, 278}
9521:40	$0, 0, 0, 0, \frac{28}{2003}\sqrt{131e^{12}}, \frac{28}{2003}\sqrt{237e^{13}}, \frac{28}{2003}\sqrt{1119e^{24}},$ $\frac{28}{2003}\sqrt{843e^{15}}, \frac{112}{2003}\sqrt{65e^{18}} + \frac{28}{2003}\sqrt{763e^{25}} + \frac{56}{2003}\sqrt{115e^{34}}$	$(\frac{14}{2003}, \frac{28}{2003}, \frac{476}{2003}, -\frac{406}{2003}, \frac{42}{2003}, \frac{490}{2003}, -\frac{378}{2003}, \frac{56}{2003}, \frac{70}{2003})$ $+\frac{140}{2003}\sqrt{70e^1} \otimes e_7$	{123459, 2367}
9521:41	$0, 0, 0, 0, \frac{12}{187}\sqrt{14e^{12}}, \frac{9}{187}\sqrt{14e^{13}}, \frac{3}{187}\sqrt{546e^{23}}, \frac{6}{187}\sqrt{14e^{15}},$ $\frac{3}{187}\sqrt{182e^{18}} + \frac{9}{187}\sqrt{70e^{36}}$	$(-\frac{21}{187}, \frac{54}{187}, \frac{6}{187}, -\frac{57}{187}, \frac{3}{17}, -\frac{15}{187}, \frac{60}{187}, \frac{12}{187}, -\frac{9}{187})$ $+\frac{12}{187}\sqrt{77e^2} \otimes e_9 + \frac{6}{187}\sqrt{273e^3} \otimes e_4$	{13579, 14569}
9521:41	$0, 0, 0, 0, \frac{42}{2969}\sqrt{145e^{12}}, \frac{84}{2969}\sqrt{61e^{13}}, \frac{42}{2969}\sqrt{803e^{23}},$ $\frac{42}{2969}\sqrt{778e^{15}}, \frac{84}{2969}\sqrt{274e^{18}} + \frac{84}{2969}\sqrt{55e^{36}}$	$(\frac{315}{2969}, -\frac{588}{2969}, \frac{21}{2969}, \frac{1239}{2969}, -\frac{273}{2969}, \frac{336}{2969}, -\frac{567}{2969}, \frac{42}{2969}, \frac{357}{2969})$ $+\frac{42}{2969}\sqrt{1730e^1} \otimes e_7 + \frac{42}{2969}\sqrt{879e^4} \otimes e_9$	{159, 347}
9521:41	$0, 0, 0, 0, \frac{78}{6577}\sqrt{773e^{12}}, \frac{585}{6577}\sqrt{6e^{13}}, \frac{39}{6577}\sqrt{1686e^{23}},$ $\frac{39}{6577}\sqrt{2810e^{15}}, \frac{39}{6577}\sqrt{3542e^{18}} + \frac{39}{6577}\sqrt{786e^{36}}$	$(-\frac{507}{6577}, \frac{1404}{6577}, \frac{195}{6577}, -\frac{2028}{6577}, \frac{897}{6577}, -\frac{312}{6577}, \frac{1599}{6577}, \frac{390}{6577}, -\frac{117}{6577})$ $+\frac{312}{6577}\sqrt{87e^1} \otimes e_4 + \frac{39}{6577}\sqrt{6074e^2} \otimes e_9$	{12368, 1278}
9521:41	$0, 0, 0, 0, \frac{28}{297}\sqrt{10e^{12}}, \frac{7}{297}\sqrt{1230e^{13}}, \frac{7}{99}\sqrt{30e^{23}}, \frac{14}{297}\sqrt{65e^{15}},$ $\frac{7}{297}\sqrt{570e^{18}} + \frac{7}{297}\sqrt{1090e^{36}}$	$(\frac{7}{99}, \frac{34}{297}, \frac{38}{297}, -\frac{23}{33}, \frac{5}{27}, \frac{59}{297}, \frac{8}{33}, \frac{76}{297}, \frac{97}{297})$ $+\frac{14}{99}\sqrt{70e^3} \otimes e_4$	{123589, 12456789, 2368, 2478}
9521:41	$0, 0, 0, 0, \frac{2}{2541}\sqrt{627845e^{12}}, \frac{2}{2541}\sqrt{247755e^{13}}, \frac{2}{2541}\sqrt{148255e^{23}},$ $\frac{4}{2541}\sqrt{190045e^{15}}, \frac{4}{2541}\sqrt{136315e^{18}} + \frac{4}{2541}\sqrt{16915e^{36}}$	$(\frac{349}{2541}, -\frac{32}{2541}, \frac{111}{847}, -\frac{547}{847}, \frac{317}{2541}, \frac{62}{231}, \frac{43}{363}, \frac{222}{847}, \frac{145}{363})$ $+\frac{2}{2541}\sqrt{2080545e^1} \otimes e_4$	{1359, 15679, 346, 47}
9521:41	$0, 0, 0, 0, \frac{1}{147}\sqrt{6106e^{12}}, \frac{1}{147}\sqrt{9030e^{13}}, \frac{2}{147}\sqrt{6235e^{23}}, \frac{2}{147}\sqrt{1462e^{15}},$ $\frac{1}{147}\sqrt{10922e^{18}} + \frac{2}{147}\sqrt{2279e^{36}}$	$(\frac{20}{147}, -\frac{10}{49}, \frac{5}{147}, 1, -\frac{10}{147}, \frac{25}{147}, -\frac{25}{147}, \frac{10}{147}, \frac{10}{49})$ $+\frac{1}{147}\sqrt{42054e^4} \otimes e_7$	{1234569, 12579, 234, 267}
9521:41	$0, 0, 0, 0, \frac{36}{277}e^{12}, \frac{9}{277}\sqrt{62e^{13}}, \frac{9}{277}\sqrt{158e^{23}}, \frac{90}{277}e^{15},$ $\frac{9}{277}\sqrt{94e^{18}} + \frac{9}{277}\sqrt{2e^{36}}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, -\frac{63}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, \frac{36}{277}, \frac{81}{277})$ $+\frac{18}{277}\sqrt{74e^1} \otimes e_7 + \frac{9}{277}\sqrt{3e^3} \otimes e_4$	{14569, 367}
9521:41	$0, 0, 0, 0, \frac{1}{303}\sqrt{51671e^{12}}, \frac{1}{101}\sqrt{4438e^{13}}, \frac{1}{303}\sqrt{64985e^{23}},$ $\frac{1}{303}\sqrt{24409e^{15}}, \frac{1}{303}\sqrt{12046e^{18}} + \frac{1}{303}\sqrt{14582e^{36}}$	$(-\frac{47}{606}, \frac{119}{303}, \frac{12}{101}, -\frac{66}{101}, \frac{191}{606}, \frac{25}{606}, \frac{155}{303}, \frac{24}{101}, \frac{97}{606})$ $+\frac{1}{303}\sqrt{158817e^2} \otimes e_4$	{1345679, 1459, 347, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:41	$0, 0, 0, 0, \frac{4}{425}\sqrt{1065}e^{12}, \frac{1}{425}\sqrt{15762}e^{13}, \frac{3}{425}\sqrt{8094}e^{23}, \frac{2}{425}\sqrt{16401}e^{15},$ $\frac{3}{425}\sqrt{8094}e^{18} + \frac{1}{425}\sqrt{38766}e^{36}$	$(\frac{97}{425}, -\frac{142}{425}, \frac{26}{425}, \frac{69}{425}, -\frac{9}{85}, \frac{123}{425}, -\frac{116}{425}, \frac{52}{425}, \frac{149}{425})$ $+ \frac{2}{425}\sqrt{37914}e^1 \otimes e_7$	{1459, 159, 347, 37}
9521:41	$0, 0, 0, 0, \frac{2}{2457}\sqrt{48055}e^{12}, \frac{4}{2457}\sqrt{45309}e^{13}, \frac{2}{2457}\sqrt{1373}e^{23},$ $\frac{2}{2457}\sqrt{266362}e^{15}, \frac{2}{2457}\sqrt{930894}e^{18} + \frac{2}{2457}\sqrt{810070}e^{36}$	$(-\frac{85}{819}, \frac{68}{351}, -\frac{17}{2457}, 1, \frac{17}{819}, -\frac{272}{2457}, \frac{17}{91}, -\frac{34}{2457}, -\frac{289}{2457})$ $+ \frac{2}{819}\sqrt{306179}e^4 \otimes e_9$	{134678, 148, 35789, 5689}
9521:41	$0, 0, 0, 0, \frac{14}{211}\sqrt{69}e^{12}, \frac{21}{211}\sqrt{38}e^{13}, \frac{7}{211}\sqrt{390}e^{23}, \frac{7}{211}\sqrt{186}e^{15},$ $\frac{7}{211}\sqrt{390}e^{18} + \frac{63}{211}\sqrt{2}e^{36}$	$(-\frac{49}{211}, \frac{100}{211}, \frac{1}{211}, \frac{36}{211}, \frac{51}{211}, -\frac{48}{211}, \frac{101}{211}, \frac{2}{211}, -\frac{47}{211})$ $+ \frac{35}{211}\sqrt{42}e^2 \otimes e_9$	{123468, 12368, 12478, 1278}
9521:41	$0, 0, 0, 0, \frac{132}{7237}\sqrt{145}e^{12}, \frac{33}{7237}\sqrt{2146}e^{13}, \frac{33}{7237}\sqrt{5678}e^{23}, \frac{2046}{7237}e^{15},$ $\frac{33}{7237}\sqrt{3982}e^{18} + \frac{33}{7237}\sqrt{2734}e^{36}$	$(\frac{693}{7237}, -\frac{726}{7237}, \frac{330}{7237}, -\frac{1815}{7237}, -\frac{33}{7237}, \frac{1023}{7237}, -\frac{396}{7237}, \frac{660}{7237}, \frac{1353}{7237})$ $+ \frac{132}{7237}\sqrt{318}e^2 \otimes e_4 + \frac{66}{7237}\sqrt{1982}e^1 \otimes e_7$	{1459, 347}
9521:41	$0, 0, 0, 0, \frac{4}{271}\sqrt{15}e^{12}, \frac{3}{271}\sqrt{34}e^{13}, \frac{1}{271}\sqrt{606}e^{23}, \frac{2}{271}\sqrt{105}e^{15},$ $\frac{1}{271}\sqrt{606}e^{18} + \frac{3}{271}\sqrt{14}e^{36}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+ \frac{4}{271}\sqrt{42}e^2 \otimes e_9 + \frac{6}{271}\sqrt{22}e^1 \otimes e_7$	{1459, 159}
9521:41	$0, 0, 0, 0, \frac{3}{109}\sqrt{62}e^{12}, \frac{3}{109}\sqrt{222}e^{13}, \frac{6}{109}\sqrt{87}e^{23}, \frac{6}{109}\sqrt{26}e^{15},$ $\frac{33}{109}\sqrt{2}e^{18} + \frac{6}{109}\sqrt{3}e^{36}$	$(-\frac{12}{109}, \frac{18}{109}, -\frac{3}{109}, \frac{51}{109}, \frac{6}{109}, -\frac{15}{109}, \frac{15}{109}, -\frac{6}{109}, -\frac{18}{109})$ $+ \frac{12}{109}\sqrt{29}e^2 \otimes e_9 + \frac{3}{109}\sqrt{318}e^4 \otimes e_7$	{135679, 1459}
9521:42	$0, 0, 0, 0, \frac{16}{103}\sqrt{6}e^{12}, \frac{48}{103}e^{13}, \frac{64}{103}\sqrt{3}e^{23}, \frac{16}{103}\sqrt{11}e^{25},$ $\frac{16}{103}\sqrt{6}e^{28} + \frac{48}{103}e^{36}$	$(\frac{30}{103}, -\frac{10}{103}, -\frac{15}{103}, 1, \frac{20}{103}, \frac{15}{103}, -\frac{25}{103}, \frac{10}{103}, 0)$ $+ \frac{32}{103}\sqrt{22}e^4 \otimes e_7$	{12345689, 125789, 234, 267}
9521:42	$0, 0, 0, 0, \frac{52}{3903}\sqrt{917}e^{12}, \frac{52}{3903}\sqrt{101}e^{13}, \frac{104}{3903}\sqrt{190}e^{23},$ $\frac{52}{3903}\sqrt{526}e^{25}, \frac{52}{3903}\sqrt{291}e^{28} + \frac{104}{3903}\sqrt{53}e^{36}$	$(\frac{962}{3903}, -\frac{52}{1301}, -\frac{78}{1301}, -\frac{1508}{3903}, \frac{806}{3903}, \frac{728}{3903}, -\frac{130}{1301}, \frac{650}{3903}, \frac{494}{3903})$ $+ \frac{52}{3903}\sqrt{1565}e^1 \otimes e_7 + \frac{52}{3903}\sqrt{1923}e^2 \otimes e_4$	{1238, 2579}
9521:42	$0, 0, 0, 0, \frac{1}{293}\sqrt{31326}e^{12}, \frac{6}{293}\sqrt{227}e^{13}, \frac{1}{293}\sqrt{15890}e^{23}, \frac{2}{293}\sqrt{9761}e^{25},$ $\frac{1}{293}\sqrt{31326}e^{28} + \frac{6}{293}\sqrt{227}e^{36}$	$(-\frac{1}{293}, \frac{34}{293}, \frac{51}{293}, -\frac{193}{293}, \frac{33}{293}, -\frac{50}{293}, \frac{85}{293}, \frac{67}{293}, \frac{101}{293})$ $+ \frac{9}{293}\sqrt{1362}e^2 \otimes e_4$	{13456789, 14589, 347, 46}
9521:42	$0, 0, 0, 0, \frac{12}{571}\sqrt{322}e^{12}, \frac{156}{571}\sqrt{7}e^{13}, \frac{12}{571}\sqrt{770}e^{23}, \frac{12}{571}\sqrt{35}e^{25},$ $\frac{12}{571}\sqrt{322}e^{28} + \frac{156}{571}\sqrt{7}e^{36}$	$(-\frac{28}{571}, \frac{82}{571}, \frac{123}{571}, -\frac{381}{571}, \frac{54}{571}, \frac{95}{571}, \frac{205}{571}, \frac{136}{571}, \frac{218}{571})$ $+ \frac{168}{571}\sqrt{17}e^3 \otimes e_4$	{123589, 12456789, 236, 247}
9521:42	$0, 0, 0, 0, \frac{2}{1419}\sqrt{234557}e^{12}, \frac{2}{1419}\sqrt{182753}e^{13}, \frac{1}{1419}\sqrt{952618}e^{23},$ $\frac{1}{1419}\sqrt{83462}e^{25}, \frac{4}{473}\sqrt{2878}e^{28} + \frac{1}{1419}\sqrt{54682}e^{36}$	$(\frac{839}{1419}, -\frac{80}{473}, -\frac{120}{473}, \frac{244}{1419}, \frac{599}{1419}, \frac{479}{1419}, -\frac{200}{473}, \frac{359}{1419}, \frac{119}{1419})$ $+ \frac{5}{1419}\sqrt{135266}e^1 \otimes e_7$	{14569, 1569, 34678, 3678}
9521:42	$0, 0, 0, 0, \frac{106}{8571}\sqrt{233}e^{12}, \frac{53}{8571}\sqrt{4010}e^{13}, \frac{106}{8571}\sqrt{1045}e^{23},$ $\frac{106}{8571}\sqrt{215}e^{25}, \frac{212}{2857}\sqrt{14}e^{28} + \frac{106}{8571}\sqrt{634}e^{36}$	$(\frac{2014}{8571}, -\frac{106}{2857}, -\frac{159}{2857}, -\frac{3286}{8571}, \frac{1696}{8571}, \frac{1537}{8571}, -\frac{265}{2857}, \frac{1378}{8571}, \frac{1060}{8571})$ $+ \frac{106}{2857}\sqrt{227}e^3 \otimes e_4 + \frac{53}{8571}\sqrt{7370}e^1 \otimes e_7$	{14569, 3678}
9521:42	$0, 0, 0, 0, \frac{12}{2933}\sqrt{1479}e^{12}, \frac{4}{2933}\sqrt{156774}e^{13}, \frac{6}{2933}\sqrt{113883}e^{23},$ $\frac{4}{2933}\sqrt{152337}e^{25}, \frac{4}{2933}\sqrt{340170}e^{28} + \frac{2}{2933}\sqrt{1334058}e^{36}$	$(\frac{155}{2933}, -\frac{60}{2933}, -\frac{90}{2933}, 1, \frac{95}{2933}, \frac{65}{2933}, -\frac{150}{2933}, \frac{5}{419}, -\frac{25}{2933})$ $+ \frac{2}{2933}\sqrt{3534810}e^4 \otimes e_9$	{123579, 12569, 234678, 248}
9521:42	$0, 0, 0, 0, \frac{4}{2933}\sqrt{340170}e^{12}, \frac{2}{2933}\sqrt{1334058}e^{13}, \frac{6}{2933}\sqrt{113883}e^{23},$ $\frac{4}{2933}\sqrt{152337}e^{25}, \frac{12}{2933}\sqrt{1479}e^{28} + \frac{4}{2933}\sqrt{156774}e^{36}$	$(\frac{1111}{2933}, -\frac{60}{2933}, -\frac{90}{2933}, -\frac{1847}{2933}, \frac{1051}{2933}, \frac{1021}{2933}, -\frac{150}{2933}, \frac{991}{2933}, \frac{133}{419})$ $+ \frac{2}{2933}\sqrt{3534810}e^1 \otimes e_4$	{123789, 12689, 234567, 245}
9521:42	$0, 0, 0, 0, \frac{122}{6069}\sqrt{311}e^{12}, \frac{488}{6069}\sqrt{29}e^{13}, \frac{61}{6069}\sqrt{70}e^{23},$ $\frac{61}{6069}\sqrt{502}e^{25}, \frac{122}{2023}\sqrt{34}e^{28} + \frac{61}{6069}\sqrt{1846}e^{36}$	$(\frac{1891}{6069}, -\frac{244}{2023}, -\frac{366}{2023}, \frac{488}{867}, \frac{1159}{6069}, \frac{793}{6069}, -\frac{610}{2023}, \frac{61}{867}, -\frac{305}{6069})$ $+ \frac{122}{2023}\sqrt{146}e^4 \otimes e_9 + \frac{61}{6069}\sqrt{5306}e^1 \otimes e_7$	{15689, 3467}
9521:43	$0, 0, 0, 0, \frac{15}{2053}\sqrt{1358}e^{12}, \frac{75}{2053}\sqrt{3}e^{13}, \frac{15}{2053}\sqrt{1119}e^{14},$ $\frac{15}{2053}\sqrt{1217}e^{15}, \frac{15}{2053}\sqrt{1226}e^{18} + \frac{30}{2053}\sqrt{66}e^{36}$	$(-\frac{75}{2053}, \frac{330}{2053}, \frac{90}{2053}, -\frac{300}{2053}, \frac{255}{2053}, \frac{15}{2053}, -\frac{375}{2053}, \frac{180}{2053}, \frac{105}{2053})$ $+ \frac{15}{2053}\sqrt{1649}e^2 \otimes e_9 + \frac{90}{2053}\sqrt{58}e^1 \otimes e_4$	{12368, 128}
9521:43	$0, 0, 0, 0, \frac{8}{113}\sqrt{17}e^{12}, \frac{16}{113}e^{13}, \frac{20}{339}\sqrt{42}e^{14}, \frac{4}{339}\sqrt{354}e^{15},$ $\frac{8}{339}\sqrt{258}e^{18} + \frac{20}{339}\sqrt{390}e^{36}$	$(\frac{8}{113}, -\frac{24}{113}, -\frac{4}{113}, \frac{32}{113}, -\frac{16}{113}, \frac{4}{113}, \frac{40}{113}, -\frac{8}{113}, 0)$ $+ \frac{4}{339}\sqrt{1866}e^1 \otimes e_2 + \frac{8}{339}\sqrt{453}e^4 \otimes e_9$	{23467, 247}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:43	$0, 0, 0, 0, \frac{110}{2889}\sqrt{115}e^{12}, \frac{4}{2889}\sqrt{72105}e^{13}, \frac{2}{963}\sqrt{137885}e^{14}, \frac{2}{2889}\sqrt{118910}e^{15}, \frac{2}{2889}\sqrt{686895}e^{18} + \frac{2}{2889}\sqrt{1870}e^{36}$	$(-\frac{152}{963}, \frac{746}{2889}, -\frac{83}{2889}, \frac{212}{321}, \frac{290}{2889}, -\frac{539}{2889}, \frac{484}{963}, -\frac{166}{2889}, -\frac{622}{2889}) + \frac{2}{2889}\sqrt{3058770}e^4 \otimes e_9$	{1234568, 12458, 2389, 2689}
9521:43	$0, 0, 0, 0, \frac{3}{185}\sqrt{2210}e^{12}, \frac{51}{185}\sqrt{3}e^{13}, \frac{51}{185}\sqrt{3}e^{14}, \frac{3}{185}\sqrt{935}e^{15}, \frac{3}{185}\sqrt{1394}e^{18} + \frac{12}{185}\sqrt{102}e^{36}$	$(-\frac{51}{185}, \frac{24}{37}, \frac{9}{185}, \frac{57}{185}, \frac{69}{185}, -\frac{42}{185}, \frac{6}{185}, \frac{18}{185}, -\frac{33}{185}) + \frac{3}{185}\sqrt{5219}e^2 \otimes e_9$	{1234678, 12368, 12478, 128}
9521:43	$0, 0, 0, 0, \frac{6}{2897}\sqrt{79637}e^{12}, \frac{4}{2897}\sqrt{56649}e^{13}, \frac{62}{2897}\sqrt{821}e^{14}, \frac{2}{2897}\sqrt{980274}e^{15}, \frac{6}{2897}\sqrt{87847}e^{18} + \frac{12}{2897}\sqrt{4105}e^{36}$	$(\frac{552}{2897}, \frac{450}{2897}, \frac{327}{2897}, \frac{1090}{2897}, \frac{102}{2897}, \frac{879}{2897}, -\frac{538}{2897}, \frac{654}{2897}, \frac{1206}{2897}) + \frac{2}{2897}\sqrt{2031154}e^1 \otimes e_4$	{1238, 1268, 2345689, 24589}
9521:43	$0, 0, 0, 0, \frac{136}{1413}\sqrt{7}e^{12}, \frac{136}{1413}\sqrt{15}e^{13}, \frac{136}{1413}\sqrt{15}e^{14}, \frac{34}{1413}\sqrt{59}e^{15}, \frac{17}{1413}\sqrt{330}e^{18} + \frac{17}{1413}\sqrt{730}e^{36}$	$(\frac{17}{157}, -\frac{136}{1413}, \frac{85}{1413}, -\frac{119}{471}, \frac{17}{1413}, \frac{238}{1413}, -\frac{68}{471}, \frac{170}{1413}, \frac{323}{1413}) + \frac{17}{1413}\sqrt{1614}e^3 \otimes e_7 + \frac{17}{1413}\sqrt{966}e^1 \otimes e_2$	{2368, 2478}
9521:43	$0, 0, 0, 0, \frac{2}{2849}\sqrt{1306551}e^{12}, \frac{8}{2849}\sqrt{25041}e^{13}, \frac{6}{2849}\sqrt{149755}e^{14}, \frac{4}{2849}\sqrt{20622}e^{15}, \frac{2}{2849}\sqrt{670215}e^{18} + \frac{2}{2849}\sqrt{456630}e^{36}$	$(-\frac{544}{2849}, \frac{1962}{2849}, \frac{437}{2849}, -\frac{40}{259}, \frac{1418}{2849}, -\frac{107}{2849}, -\frac{984}{2849}, \frac{874}{2849}, \frac{30}{259}) + \frac{2}{2849}\sqrt{3496902}e^2 \otimes e_7$	{12346, 124, 2359, 2569}
9521:43	$0, 0, 0, 0, \frac{9}{245}\sqrt{10}e^{12}, \frac{9}{245}\sqrt{123}e^{13}, \frac{9}{245}\sqrt{123}e^{14}, \frac{9}{245}\sqrt{65}e^{15}, \frac{9}{245}\sqrt{86}e^{18} + \frac{72}{245}\sqrt{3}e^{36}$	$(-\frac{27}{245}, \frac{18}{49}, \frac{18}{245}, -\frac{36}{245}, \frac{9}{35}, -\frac{9}{245}, -\frac{9}{35}, \frac{36}{245}, \frac{9}{245}) + \frac{18}{49}\sqrt{3}e^3 \otimes e_7 + \frac{9}{245}\sqrt{139}e^2 \otimes e_9$	{134589, 156789}
9521:43	$0, 0, 0, 0, \frac{46}{1301}\sqrt{6}e^{12}, \frac{69}{1301}\sqrt{94}e^{13}, \frac{46}{1301}\sqrt{118}e^{14}, \frac{69}{1301}\sqrt{10}e^{15}, \frac{69}{1301}\sqrt{38}e^{18} + \frac{46}{1301}\sqrt{183}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301}) + \frac{23}{1301}\sqrt{1554}e^3 \otimes e_7 + \frac{46}{1301}\sqrt{187}e^1 \otimes e_4$	{156789, 478}
9521:43	$0, 0, 0, 0, \frac{2}{729}\sqrt{32635}e^{12}, \frac{2}{729}\sqrt{34770}e^{13}, \frac{2}{729}\sqrt{34770}e^{14}, \frac{2}{729}\sqrt{50935}e^{15}, \frac{2}{729}\sqrt{64965}e^{18} + \frac{2}{729}\sqrt{9455}e^{36}$	$(\frac{76}{243}, -\frac{382}{729}, \frac{37}{729}, \frac{2}{243}, -\frac{154}{729}, \frac{265}{729}, \frac{26}{81}, \frac{74}{729}, \frac{302}{729}) + \frac{2}{729}\sqrt{185745}e^1 \otimes e_2$	{1348, 1378, 1468, 1678}
9521:43	$0, 0, 0, 0, \frac{20}{1449}\sqrt{130}e^{12}, \frac{5}{1449}\sqrt{3390}e^{13}, \frac{10}{1449}\sqrt{1515}e^{14}, \frac{5}{1449}\sqrt{2810}e^{15}, \frac{5}{1449}\sqrt{2190}e^{18} + \frac{10}{1449}\sqrt{1390}e^{36}$	$(-\frac{15}{161}, \frac{310}{1449}, \frac{20}{1449}, \frac{10}{483}, \frac{25}{207}, -\frac{5}{63}, \frac{5}{69}, \frac{40}{1449}, -\frac{95}{1449}) + \frac{10}{1449}\sqrt{1335}e^4 \otimes e_9 + \frac{5}{1449}\sqrt{8130}e^3 \otimes e_7$	{1256789, 2478}
9521:43	$0, 0, 0, 0, \frac{69}{1301}\sqrt{89}e^{12}, \frac{23}{1301}\sqrt{69}e^{13}, \frac{23}{1301}\sqrt{305}e^{14}, \frac{23}{1301}\sqrt{687}e^{15}, \frac{23}{1301}\sqrt{435}e^{18} + \frac{69}{1301}\sqrt{5}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301}) + \frac{115}{1301}\sqrt{61}e^1 \otimes e_4 + \frac{23}{1301}\sqrt{777}e^2 \otimes e_7$	{1238, 1268, 2345689, 24589}
9521:43	$0, 0, 0, 0, \frac{1}{684}\sqrt{55510}e^{12}, \frac{1}{342}\sqrt{182085}e^{13}, \frac{1}{342}\sqrt{182085}e^{14}, \frac{1}{684}\sqrt{105530}e^{15}, \frac{1}{342}\sqrt{37515}e^{18} + \frac{5}{342}\sqrt{1891}e^{36}$	$(-\frac{1}{76}, \frac{169}{684}, \frac{151}{1368}, -\frac{49}{152}, \frac{40}{171}, \frac{7}{72}, -\frac{51}{152}, \frac{151}{684}, \frac{71}{342}) + \frac{1}{342}\sqrt{92415}e^3 \otimes e_7$	{1234589, 1256789, 2368, 2478}
9521:43	$0, 0, 0, 0, \frac{69}{1301}\sqrt{89}e^{12}, \frac{23}{1301}\sqrt{69}e^{13}, \frac{23}{1301}\sqrt{305}e^{14}, \frac{23}{1301}\sqrt{687}e^{15}, \frac{23}{1301}\sqrt{435}e^{18} + \frac{69}{1301}\sqrt{5}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301}) + \frac{115}{1301}\sqrt{61}e^1 \otimes e_4 - \frac{23}{1301}\sqrt{777}e^2 \otimes e_7$	{1238, 1268, 2345689, 24589}
9521:44	$0, 0, 0, 0, \frac{40}{6123}\sqrt{1066}e^{12}, \frac{80}{6123}\sqrt{187}e^{13}, \frac{40}{6123}\sqrt{2147}e^{14}, \frac{40}{6123}\sqrt{203}e^{25}, \frac{160}{6123}\sqrt{57}e^{28} + \frac{40}{2041}\sqrt{193}e^{36}$	$(-\frac{1220}{6123}, \frac{560}{6123}, \frac{280}{2041}, \frac{420}{2041}, -\frac{220}{2041}, -\frac{380}{6123}, \frac{40}{6123}, -\frac{100}{6123}, \frac{460}{6123}) + \frac{40}{6123}\sqrt{2798}e^4 \otimes e_9 + \frac{80}{6123}\sqrt{679}e^3 \otimes e_7$	{125679, 2478}
9521:44	$0, 0, 0, 0, \frac{16}{4179}\sqrt{12702}e^{12}, \frac{32}{4179}\sqrt{219}e^{13}, \frac{8}{1393}\sqrt{10585}e^{14}, \frac{8}{4179}\sqrt{101689}e^{25}, \frac{8}{4179}\sqrt{88914}e^{28} + \frac{8}{1393}\sqrt{1387}e^{36}$	$(-\frac{288}{1393}, \frac{872}{4179}, \frac{436}{1393}, -\frac{200}{1393}, \frac{8}{4179}, \frac{148}{1393}, -\frac{488}{1393}, \frac{880}{4179}, \frac{584}{1393}) + \frac{8}{1393}\sqrt{28178}e^2 \otimes e_7$	{1356789, 15789, 347, 467}
9521:44	$0, 0, 0, 0, \frac{8}{3947}\sqrt{161130}e^{12}, \frac{8}{3947}\sqrt{142266}e^{13}, \frac{8}{3947}\sqrt{70871}e^{14}, \frac{8}{3947}\sqrt{30261}e^{25}, \frac{96}{3947}\sqrt{262}e^{28} + \frac{8}{3947}\sqrt{42837}e^{36}$	$(\frac{2172}{3947}, -\frac{480}{3947}, -\frac{720}{3947}, -\frac{2020}{3947}, \frac{1692}{3947}, \frac{1452}{3947}, \frac{152}{3947}, \frac{1212}{3947}, \frac{732}{3947}) + \frac{8}{3947}\sqrt{426274}e^1 \otimes e_4$	{12389, 12689, 23456, 245}
9521:44	$0, 0, 0, 0, \frac{258}{1031}\sqrt{3}e^{12}, \frac{6}{1031}\sqrt{12470}e^{13}, \frac{6}{1031}\sqrt{12470}e^{14}, \frac{12}{1031}\sqrt{645}e^{25}, \frac{6}{1031}\sqrt{559}e^{28} + \frac{12}{1031}\sqrt{3741}e^{36}$	$(-\frac{271}{1031}, \frac{262}{1031}, \frac{393}{1031}, -\frac{110}{1031}, -\frac{9}{1031}, \frac{122}{1031}, -\frac{381}{1031}, \frac{253}{1031}, \frac{515}{1031}) + \frac{6}{1031}\sqrt{36593}e^3 \otimes e_7$	{1349, 1679, 3568, 4578}
9521:44	$0, 0, 0, 0, \frac{16}{4091}\sqrt{16514}e^{12}, \frac{96}{4091}\sqrt{46}e^{13}, \frac{16}{4091}\sqrt{37421}e^{14}, \frac{16}{4091}\sqrt{5313}e^{25}, \frac{32}{4091}\sqrt{7429}e^{28} + \frac{16}{4091}\sqrt{21459}e^{36}$	$(-\frac{144}{4091}, -\frac{112}{4091}, -\frac{168}{4091}, \frac{2464}{4091}, -\frac{256}{4091}, -\frac{312}{4091}, \frac{2320}{4091}, -\frac{368}{4091}, -\frac{480}{4091}) + \frac{16}{4091}\sqrt{78154}e^4 \otimes e_9$	{1346, 14, 3589, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:44	$0, 0, 0, 0, \frac{64}{4987}\sqrt{282}e^{12}, \frac{64}{4987}\sqrt{1410}e^{13}, \frac{320}{4987}\sqrt{19}e^{14},$ $\frac{64}{4987}\sqrt{195}e^{25}, \frac{128}{4987}\sqrt{69}e^{28} + \frac{64}{4987}\sqrt{1131}e^{36}$	$(\frac{288}{4987}, \frac{384}{4987}, \frac{576}{4987}, -\frac{1760}{4987}, \frac{672}{4987}, \frac{864}{4987}, -\frac{1472}{4987}, \frac{1056}{4987}, \frac{1440}{4987})$ $+ \frac{128}{4987}\sqrt{633}e^3 \otimes e_7 + \frac{64}{4987}\sqrt{1870}e^1 \otimes e_4$	{126789, 2457}
9521:45	$0, 0, 0, 0, \frac{16}{4529}\sqrt{946}e^{12}, \frac{576}{4529}e^{13}, \frac{80}{4529}\sqrt{73}e^{24}, \frac{16}{4529}\sqrt{299}e^{15},$ $\frac{32}{4529}\sqrt{29}e^{18} + \frac{16}{4529}\sqrt{1471}e^{36}$	$(\frac{232}{4529}, -\frac{480}{4529}, -\frac{8}{4529}, \frac{344}{4529}, -\frac{248}{4529}, \frac{32}{4529}, -\frac{136}{4529}, -\frac{16}{4529}, \frac{216}{4529})$ $+ \frac{16}{4529}\sqrt{1770}e^4 \otimes e_9 + \frac{32}{4529}\sqrt{590}e^3 \otimes e_7$	{139, 457}
9521:45	$0, 0, 0, 0, \frac{46}{1337}\sqrt{57}e^{12}, \frac{69}{1337}\sqrt{119}e^{13}, \frac{23}{1337}\sqrt{829}e^{24},$ $\frac{23}{1337}\sqrt{249}e^{15}, \frac{69}{1337}\sqrt{53}e^{18} + \frac{92}{1337}\sqrt{57}e^{36}$	$(\frac{207}{2674}, \frac{69}{1337}, \frac{138}{1337}, -\frac{460}{1337}, \frac{345}{2674}, \frac{69}{1337}, -\frac{391}{1337}, \frac{276}{1337}, \frac{759}{2674})$ $+ \frac{23}{1337}\sqrt{415}e^2 \otimes e_4 + \frac{69}{1337}\sqrt{215}e^3 \otimes e_7$	{1256789, 278}
9521:45	$0, 0, 0, 0, \frac{32}{237}\sqrt{14}e^{12}, \frac{64}{711}\sqrt{2}e^{13}, \frac{32}{237}\sqrt{31}e^{24}, \frac{32}{711}\sqrt{43}e^{15},$ $\frac{64}{711}\sqrt{57}e^{18} + \frac{32}{711}\sqrt{161}e^{36}$	$(-\frac{16}{711}, -\frac{32}{711}, -\frac{32}{711}, \frac{48}{79}, -\frac{16}{237}, -\frac{16}{237}, \frac{400}{711}, -\frac{64}{711}, -\frac{80}{711})$ $+ \frac{32}{711}\sqrt{590}e^4 \otimes e_9$	{134678, 1478, 3589, 5689}
9521:45	$0, 0, 0, 0, \frac{8}{667}\sqrt{7107}e^{12}, \frac{12}{667}\sqrt{618}e^{13}, \frac{4}{667}\sqrt{5459}e^{24}, \frac{4}{667}\sqrt{5871}e^{15},$ $\frac{12}{667}\sqrt{618}e^{18} + \frac{4}{667}\sqrt{5871}e^{36}$	$(-\frac{108}{667}, \frac{444}{667}, \frac{114}{667}, -\frac{380}{667}, \frac{336}{667}, \frac{6}{667}, \frac{64}{667}, \frac{228}{667}, \frac{120}{667})$ $+ \frac{20}{667}\sqrt{2266}e^2 \otimes e_4$	{13456, 145, 349, 469}
9521:45	$0, 0, 0, 0, \frac{96}{5339}\sqrt{53}e^{12}, \frac{96}{5339}\sqrt{3}e^{13}, \frac{24}{5339}\sqrt{1497}e^{24},$ $\frac{24}{5339}\sqrt{1049}e^{15}, \frac{24}{5339}\sqrt{1346}e^{18} + \frac{24}{5339}\sqrt{501}e^{36}$	$(-\frac{96}{5339}, \frac{504}{5339}, \frac{156}{5339}, \frac{888}{5339}, \frac{408}{5339}, \frac{60}{5339}, -\frac{384}{5339}, \frac{312}{5339}, \frac{216}{5339})$ $+ \frac{192}{5339}\sqrt{35}e^2 \otimes e_9 + \frac{24}{5339}\sqrt{2490}e^1 \otimes e_7$	{123468, 1248}
9521:45	$0, 0, 0, 0, \frac{2}{61}\sqrt{273}e^{12}, \frac{14}{61}\sqrt{3}e^{13}, \frac{8}{61}\sqrt{21}e^{24}, \frac{6}{61}\sqrt{14}e^{15},$ $\frac{2}{61}\sqrt{273}e^{18} + \frac{8}{61}\sqrt{21}e^{36}$	$(-\frac{14}{61}, \frac{32}{61}, \frac{2}{61}, -\frac{5}{61}, \frac{18}{61}, -\frac{12}{61}, \frac{27}{61}, \frac{4}{61}, -\frac{10}{61})$ $+ \frac{10}{61}\sqrt{42}e^2 \otimes e_9$	{123468, 123678, 1248, 1278}
9521:45	$0, 0, 0, 0, \frac{224}{4279}\sqrt{57}e^{12}, \frac{112}{4279}\sqrt{42}e^{13}, \frac{56}{4279}\sqrt{709}e^{24},$ $\frac{56}{4279}\sqrt{957}e^{15}, \frac{168}{4279}\sqrt{74}e^{18} + \frac{56}{4279}\sqrt{39}e^{36}$	$(\frac{336}{4279}, \frac{168}{4279}, \frac{420}{4279}, -\frac{1400}{4279}, \frac{504}{4279}, \frac{756}{4279}, -\frac{112}{4279}, \frac{840}{4279}, \frac{1176}{4279})$ $+ \frac{112}{4279}\sqrt{310}e^2 \otimes e_4 + \frac{56}{4279}\sqrt{2490}e^1 \otimes e_7$	{2356789, 25789}
9521:45	$0, 0, 0, 0, \frac{15}{193}e^{12}, \frac{3}{193}\sqrt{930}e^{13}, \frac{3}{193}\sqrt{330}e^{24}, \frac{15}{386}\sqrt{7}e^{15},$ $\frac{15}{193}e^{18} + \frac{3}{193}\sqrt{330}e^{36}$	$(-\frac{15}{386}, \frac{63}{386}, \frac{33}{772}, -\frac{183}{772}, \frac{24}{193}, \frac{3}{772}, -\frac{57}{772}, \frac{33}{386}, \frac{9}{193})$ $+ \frac{3}{386}\sqrt{2010}e^3 \otimes e_7 + \frac{51}{386}\sqrt{5}e^2 \otimes e_9$	{23468, 278}
9521:45	$0, 0, 0, 0, \frac{32}{743}\sqrt{65}e^{12}, \frac{32}{743}\sqrt{65}e^{13}, \frac{104}{743}\sqrt{17}e^{24}, \frac{104}{743}\sqrt{17}e^{15},$ $\frac{8}{743}\sqrt{2626}e^{18} + \frac{8}{743}\sqrt{299}e^{36}$	$(\frac{160}{743}, -\frac{168}{743}, \frac{76}{743}, -\frac{88}{743}, -\frac{8}{743}, \frac{236}{743}, -\frac{256}{743}, \frac{152}{743}, \frac{312}{743})$ $+ \frac{8}{743}\sqrt{7930}e^1 \otimes e_7$	{12348, 12468, 2356789, 25789}
9521:45	$0, 0, 0, 0, \frac{4}{683}\sqrt{4810}e^{12}, \frac{12}{683}\sqrt{1406}e^{13}, \frac{4}{683}\sqrt{10027}e^{24}, \frac{4}{683}\sqrt{3071}e^{15},$ $\frac{4}{683}\sqrt{4810}e^{18} + \frac{4}{683}\sqrt{10027}e^{36}$	$(\frac{94}{683}, -\frac{48}{683}, \frac{70}{683}, -\frac{178}{683}, \frac{46}{683}, \frac{164}{683}, -\frac{226}{683}, \frac{140}{683}, \frac{234}{683})$ $+ \frac{4}{683}\sqrt{21830}e^3 \otimes e_7$	{1234589, 1256789, 23468, 278}
9521:46	$0, 0, 0, 0, \frac{2}{673}\sqrt{45741}e^{12}, \frac{8}{673}\sqrt{579}e^{13}, \frac{2}{673}\sqrt{43811}e^{24}, \frac{20}{673}\sqrt{579}e^{25},$ $\frac{2}{673}\sqrt{45741}e^{28} + \frac{8}{673}\sqrt{579}e^{36}$	$(-\frac{96}{673}, \frac{126}{673}, \frac{189}{673}, -\frac{260}{673}, \frac{30}{673}, \frac{93}{673}, -\frac{134}{673}, \frac{156}{673}, \frac{282}{673})$ $+ \frac{4}{673}\sqrt{27985}e^2 \otimes e_4$	{1345689, 14589, 34, 46}
9521:46	$0, 0, 0, 0, \frac{4}{683}\sqrt{4810}e^{12}, \frac{4}{683}\sqrt{10027}e^{13}, \frac{12}{683}\sqrt{1406}e^{24}, \frac{4}{683}\sqrt{3071}e^{25},$ $\frac{4}{683}\sqrt{4810}e^{28} + \frac{4}{683}\sqrt{10027}e^{36}$	$(-\frac{48}{683}, \frac{94}{683}, \frac{141}{683}, -\frac{249}{683}, \frac{46}{683}, \frac{93}{683}, -\frac{155}{683}, \frac{140}{683}, \frac{234}{683})$ $+ \frac{4}{683}\sqrt{21830}e^3 \otimes e_7$	{1234589, 1256789, 2346, 27}
9521:46	$0, 0, 0, 0, \frac{10}{701}\sqrt{1505}e^{12}, \frac{16}{701}\sqrt{903}e^{13}, \frac{2}{701}\sqrt{72541}e^{24}, \frac{4}{701}\sqrt{3010}e^{25},$ $\frac{2}{701}\sqrt{32207}e^{28} + \frac{4}{701}\sqrt{5719}e^{36}$	$(\frac{384}{701}, -\frac{98}{701}, -\frac{147}{701}, -\frac{120}{701}, \frac{286}{701}, \frac{237}{701}, -\frac{218}{701}, \frac{188}{701}, \frac{90}{701})$ $+ \frac{4}{701}\sqrt{43645}e^1 \otimes e_7$	{1359, 1569, 34678, 478}
9521:46	$0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{46}{2629}\sqrt{221}e^{24},$ $\frac{92}{2629}\sqrt{165}e^{25}, \frac{46}{2629}\sqrt{417}e^{28} + \frac{276}{2629}e^{36}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{920}{2629}, \frac{414}{2629}, \frac{483}{2629}, -\frac{782}{2629}, \frac{552}{2629}, \frac{690}{2629})$ $+ \frac{230}{2629}\sqrt{58}e^2 \otimes e_4 + \frac{46}{2629}\sqrt{870}e^1 \otimes e_7$	{1238, 1268}
9521:46	$0, 0, 0, 0, \frac{1}{19}\sqrt{330}e^{12}, \frac{1}{19}\sqrt{330}e^{13}, \frac{5}{19}\sqrt{22}e^{24}, \frac{1}{19}\sqrt{330}e^{25},$ $\frac{1}{19}\sqrt{330}e^{28} + \frac{1}{19}\sqrt{330}e^{36}$	$(\frac{3}{19}, 0, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{470}e^2 \otimes e_4 + \frac{3}{19}\sqrt{70}e^3 \otimes e_7$	{1234589, 2346}
9521:46	$0, 0, 0, 0, \frac{2}{701}\sqrt{32207}e^{12}, \frac{4}{701}\sqrt{5719}e^{13}, \frac{2}{701}\sqrt{72541}e^{24}, \frac{4}{701}\sqrt{3010}e^{25},$ $\frac{10}{701}\sqrt{1505}e^{28} + \frac{16}{701}\sqrt{903}e^{36}$	$(\frac{152}{701}, -\frac{98}{701}, -\frac{147}{701}, \frac{460}{701}, \frac{54}{701}, \frac{5}{701}, \frac{362}{701}, -\frac{44}{701}, -\frac{142}{701})$ $+ \frac{4}{701}\sqrt{43645}e^4 \otimes e_9$	{1389, 1689, 34567, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:46	$0, 0, 0, 0, \frac{1}{10253} \sqrt{4138e^{12}}, \frac{53}{10253} \sqrt{2e^{13}}, \frac{4}{10253} \sqrt{589e^{24}}, \frac{1}{10253} \sqrt{2606e^{25}}, \frac{1}{10253} \sqrt{1022e^{28}} + \frac{2}{10253} \sqrt{1794e^{36}}$	$(\frac{63}{10253}, -\frac{26}{10253}, -\frac{39}{10253}, -\frac{14}{10253}, \frac{37}{10253}, \frac{24}{10253}, -\frac{40}{10253}, \frac{11}{10253}, -\frac{15}{10253}) + \frac{1}{10253} \sqrt{11110e^4} \otimes e_7 + \frac{1}{10253} \sqrt{7790e^4} \otimes e_9$	{1256789, 2346}
9521:47	$0, 0, 0, 0, \frac{20}{4927} \sqrt{862e^{12}}, \frac{20}{4927} \sqrt{746e^{13}}, \frac{20}{4927} \sqrt{1891e^{34}}, \frac{20}{4927} \sqrt{1067e^{25}}, \frac{60}{4927} e^{16} + \frac{40}{379} \sqrt{2e^{28}}$	$(\frac{30}{379}, -\frac{80}{4927}, -\frac{630}{4927}, \frac{350}{4927}, \frac{310}{4927}, -\frac{240}{4927}, -\frac{280}{4927}, \frac{230}{4927}, \frac{150}{4927}) + \frac{20}{4927} \sqrt{1726e^4} \otimes e_9 + \frac{20}{4927} \sqrt{2686e^2} \otimes e_7$	{123468, 2569}
9521:47	$0, 0, 0, 0, \frac{258}{1031} \sqrt{3e^{12}}, \frac{6}{1031} \sqrt{559e^{13}}, \frac{12}{1031} \sqrt{3741e^{34}}, \frac{12}{1031} \sqrt{645e^{25}}, \frac{6}{1031} \sqrt{12470e^{16}} + \frac{6}{1031} \sqrt{12470e^{28}}$	$(\frac{32}{1031}, -\frac{41}{1031}, -\frac{155}{1031}, \frac{683}{1031}, -\frac{9}{1031}, -\frac{123}{1031}, \frac{528}{1031}, -\frac{50}{1031}, -\frac{91}{1031}) + \frac{6}{1031} \sqrt{36593e^4} \otimes e_9$	{1259, 1346, 2348, 5689}
9521:47	$0, 0, 0, 0, \frac{22}{601} \sqrt{51e^{12}}, \frac{44}{601} \sqrt{39e^{13}}, \frac{22}{601} \sqrt{82e^{34}}, \frac{44}{601} \sqrt{6e^{25}}, \frac{22}{601} \sqrt{129e^{16}} + \frac{132}{601} e^{28}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, -\frac{176}{601}, \frac{132}{601}, \frac{165}{601}) + \frac{22}{601} \sqrt{199e^3} \otimes e_4 + \frac{22}{601} \sqrt{330e^1} \otimes e_7$	{2457, 3679}
9521:47	$0, 0, 0, 0, \frac{16}{1369} \sqrt{1806e^{12}}, \frac{16}{4107} \sqrt{9159e^{13}}, \frac{8}{4107} \sqrt{71079e^{34}}, \frac{8}{111} \sqrt{43e^{25}}, \frac{8}{4107} \sqrt{28509e^{16}} + \frac{8}{4107} \sqrt{46698e^{28}}$	$(\frac{204}{1369}, \frac{140}{4107}, -\frac{64}{1369}, -\frac{348}{1369}, \frac{752}{4107}, \frac{140}{1369}, -\frac{412}{1369}, \frac{892}{4107}, \frac{344}{1369}) + \frac{8}{4107} \sqrt{15041e^2} \otimes e_7$	{128, 1356789, 23459, 467}
9521:47	$0, 0, 0, 0, \frac{132}{2989} \sqrt{106e^{12}}, \frac{88}{2989} \sqrt{111e^{13}}, \frac{44}{2989} \sqrt{1057e^{34}}, \frac{132}{2989} \sqrt{101e^{25}}, \frac{132}{2989} \sqrt{47e^{16}} + \frac{88}{2989} \sqrt{183e^{28}}$	$(\frac{330}{2989}, \frac{132}{2989}, \frac{66}{2989}, -\frac{902}{2989}, \frac{66}{427}, \frac{396}{2989}, -\frac{836}{2989}, \frac{594}{2989}, \frac{726}{2989}) + \frac{44}{2989} \sqrt{2310e^2} \otimes e_7 + \frac{44}{2989} \sqrt{262e^3} \otimes e_4$	{1356789, 467}
9521:47	$0, 0, 0, 0, \frac{4}{4187} \sqrt{322382e^{12}}, \frac{4}{4187} \sqrt{254890e^{13}}, \frac{4}{4187} \sqrt{416081e^{34}}, \frac{4}{4187} \sqrt{88673e^{25}}, \frac{4}{4187} \sqrt{449827e^{16}} + \frac{4}{4187} \sqrt{168730e^{28}}$	$(\frac{1326}{4187}, \frac{66}{4187}, -\frac{1128}{4187}, -\frac{418}{4187}, \frac{1392}{4187}, \frac{198}{4187}, -\frac{1546}{4187}, \frac{1458}{4187}, \frac{1524}{4187}) + \frac{4}{4187} \sqrt{1237114e^1} \otimes e_7$	{123489, 1568, 2457, 3679}
9521:47	$0, 0, 0, 0, \frac{46}{5577} \sqrt{247e^{12}}, \frac{46}{5577} \sqrt{399e^{13}}, \frac{46}{5577} \sqrt{1726e^{34}}, \frac{46}{5577} \sqrt{210e^{25}}, \frac{230}{5577} \sqrt{66e^{16}} + \frac{92}{5577} \sqrt{95e^{28}}$	$(\frac{874}{5577}, -\frac{69}{1859}, -\frac{115}{429}, \frac{437}{1859}, \frac{667}{5577}, -\frac{207}{1859}, -\frac{184}{5577}, \frac{460}{5577}, \frac{23}{507}) + \frac{46}{5577} \sqrt{2407e^4} \otimes e_9 + \frac{92}{5577} \sqrt{635e^1} \otimes e_7$	{235679, 47}
9521:47	$0, 0, 0, 0, \frac{11}{49} \sqrt{6e^{12}}, \frac{11}{98} \sqrt{78e^{13}}, \frac{11}{98} \sqrt{14e^{34}}, \frac{11}{49} \sqrt{3e^{25}}, \frac{11}{98} \sqrt{15e^{16}} + \frac{11}{98} \sqrt{15e^{28}}$	$(-\frac{33}{196}, \frac{33}{196}, \frac{33}{49}, -\frac{55}{98}, 0, \frac{99}{98}, \frac{11}{98}, \frac{33}{196}, \frac{33}{98}) + \frac{22}{49} \sqrt{10e^3} \otimes e_4$	{12359, 146, 248, 35689}
9521:51	$0, 0, 0, 0, \frac{164}{2737} \sqrt{51e^{12}}, \frac{246}{2737} \sqrt{22e^{13}}, \frac{164}{2737} \sqrt{309e^{23}}, \frac{82}{2737} \sqrt{266e^{25}}, \frac{246}{2737} \sqrt{35e^{16}} + \frac{82}{2737} \sqrt{303e^{28}}$	$(\frac{75}{391}, -\frac{25}{2737}, -\frac{600}{2737}, 1, \frac{500}{2961}, -\frac{75}{2737}, -\frac{625}{2737}, \frac{475}{2737}, \frac{450}{2737}) + \frac{902}{2737} \sqrt{19e^4} \otimes e_7$	{125789, 13678, 234, 4569}
9521:51	$0, 0, 0, 0, \frac{1}{371} \sqrt{59278e^{12}}, \frac{4}{371} \sqrt{831e^{13}}, \frac{2}{371} \sqrt{3601e^{23}}, \frac{1}{371} \sqrt{63710e^{25}}, \frac{1}{371} \sqrt{26038e^{16}} + \frac{1}{371} \sqrt{52630e^{28}}$	$(\frac{25}{371}, \frac{4}{53}, \frac{59}{371}, -\frac{249}{371}, \frac{1}{7}, \frac{12}{53}, \frac{87}{371}, \frac{81}{371}, \frac{109}{371}) + \frac{2}{371} \sqrt{42935e^2} \otimes e_4$	{1278, 13456789, 2359, 46}
9521:51	$0, 0, 0, 0, \frac{46}{2961} \sqrt{1407e^{12}}, \frac{2}{2961} \sqrt{617941e^{13}}, \frac{92}{2961} \sqrt{134e^{23}}, \frac{8}{2961} \sqrt{23115e^{25}}, \frac{2}{2961} \sqrt{1291358e^{16}} + \frac{2}{2961} \sqrt{1433130e^{28}}$	$(-\frac{220}{2961}, \frac{11}{987}, \frac{319}{2961}, 1, -\frac{187}{2961}, \frac{11}{329}, \frac{352}{2961}, -\frac{22}{423}, -\frac{121}{2961}) + \frac{10}{2961} \sqrt{149477e^4} \otimes e_9$	{123579, 1467, 248, 35689}
9521:51	$0, 0, 0, 0, \frac{2}{2873} \sqrt{771099e^{12}}, \frac{2}{2873} \sqrt{1228326e^{13}}, \frac{6}{2873} \sqrt{157942e^{23}}, \frac{4}{2873} \sqrt{57342e^{25}}, \frac{2}{2873} \sqrt{553803e^{16}} + \frac{4}{2873} \sqrt{39234e^{28}}$	$(-\frac{184}{2873}, \frac{311}{2873}, \frac{1117}{2873}, -\frac{1901}{2873}, \frac{127}{2873}, \frac{933}{2873}, \frac{84}{169}, \frac{438}{2873}, \frac{749}{2873}) + \frac{2}{2873} \sqrt{3601983e^3} \otimes e_4$	{123589, 1468, 247, 35679}
9521:51	$0, 0, 0, 0, \frac{6}{2989} \sqrt{83395e^{12}}, \frac{2}{2989} \sqrt{1184209e^{13}}, \frac{2}{2989} \sqrt{468295e^{23}}, \frac{2}{2989} \sqrt{378485e^{25}}, \frac{24}{2989} \sqrt{7698e^{16}} + \frac{4}{2989} \sqrt{60301e^{28}}$	$(\frac{617}{2989}, \frac{193}{2989}, -\frac{38}{2989}, -\frac{1949}{2989}, \frac{810}{2989}, \frac{579}{2989}, \frac{155}{2989}, \frac{1003}{2989}, \frac{1196}{2989}) + \frac{2}{2989} \sqrt{3167727e^1} \otimes e_4$	{123789, 15678, 245, 3469}
9521:51	$0, 0, 0, 0, \frac{44}{4473} \sqrt{101e^{12}}, \frac{44}{1491} \sqrt{111e^{13}}, \frac{44}{4473} \sqrt{1577e^{23}}, \frac{44}{4473} \sqrt{397e^{25}}, \frac{44}{4473} \sqrt{1187e^{16}} + \frac{44}{4473} \sqrt{759e^{28}}$	$(\frac{88}{639}, \frac{22}{1491}, -\frac{418}{4473}, -\frac{22}{71}, \frac{682}{4473}, \frac{22}{497}, -\frac{352}{4473}, \frac{748}{4473}, \frac{814}{4473}) - \frac{44}{4473} \sqrt{2315e^1} \otimes e_7 + \frac{88}{4473} \sqrt{443e^3} \otimes e_4$	{123589, 1468, 247, 35679}
9521:51	$0, 0, 0, 0, \frac{44}{4473} \sqrt{101e^{12}}, \frac{44}{1491} \sqrt{111e^{13}}, \frac{44}{4473} \sqrt{1577e^{23}}, \frac{44}{4473} \sqrt{397e^{25}}, \frac{44}{4473} \sqrt{1187e^{16}} + \frac{44}{4473} \sqrt{759e^{28}}$	$(\frac{88}{639}, \frac{22}{1491}, -\frac{418}{4473}, -\frac{22}{71}, \frac{682}{4473}, \frac{22}{497}, -\frac{352}{4473}, \frac{748}{4473}, \frac{814}{4473}) + \frac{44}{4473} \sqrt{2315e^1} \otimes e_7 + \frac{88}{4473} \sqrt{443e^3} \otimes e_4$	{123589, 1468, 247, 35679}
9521:51	$0, 0, 0, 0, \frac{52}{3465} \sqrt{21e^{12}}, \frac{52}{3465} \sqrt{547e^{13}}, \frac{52}{3465} \sqrt{601e^{23}}, \frac{52}{3465} \sqrt{69e^{25}}, \frac{52}{693} \sqrt{47e^{16}} + \frac{52}{3465} \sqrt{39e^{28}}$	$(\frac{104}{693}, -\frac{26}{1155}, -\frac{754}{3465}, \frac{26}{55}, \frac{442}{3465}, -\frac{26}{385}, -\frac{832}{3465}, \frac{52}{495}, \frac{26}{315}) + \frac{104}{3465} \sqrt{311e^4} \otimes e_9 - \frac{52}{1155} \sqrt{203e^1} \otimes e_7$	{123589, 1468, 247, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:51	$0, 0, 0, 0, \frac{52}{3465}\sqrt{21}e^{12}, \frac{52}{3465}\sqrt{547}e^{13}, \frac{52}{3465}\sqrt{601}e^{23}, \frac{52}{3465}\sqrt{69}e^{25},$ $\frac{52}{693}\sqrt{47}e^{16} + \frac{52}{3465}\sqrt{39}e^{28}$	$(\frac{104}{693}, -\frac{26}{1155}, -\frac{754}{3465}, \frac{26}{55}, \frac{442}{3465}, -\frac{26}{385}, -\frac{832}{3465}, \frac{52}{495}, \frac{26}{315})$ $+ \frac{104}{3465}\sqrt{311}e^4 \otimes e_9 + \frac{52}{1155}\sqrt{203}e^1 \otimes e_7$	{123589, 1468, 247, 35679}
9521:52	$0, 0, 0, 0, \frac{4}{1147}\sqrt{15070}e^{12}, \frac{6}{1147}\sqrt{4795}e^{13}, \frac{10}{1147}\sqrt{4247}e^{14},$ $\frac{2}{3441}\sqrt{785695}e^{25}, \frac{2}{3441}\sqrt{663765}e^{16} + \frac{2}{1147}\sqrt{91790}e^{28}$	$(-\frac{55}{1147}, \frac{8}{93}, \frac{351}{1147}, -\frac{303}{1147}, \frac{131}{3441}, \frac{8}{31}, -\frac{358}{1147}, \frac{427}{3441}, \frac{241}{1147})$ $+ \frac{10}{3441}\sqrt{80967}e^2 \otimes e_7$	{1248, 1356789, 2359, 467}
9521:52	$0, 0, 0, 0, \frac{57}{10021}\sqrt{4686}e^{12}, \frac{57}{10021}\sqrt{2638}e^{13}, \frac{114}{10021}\sqrt{1705}e^{14},$ $\frac{57}{10021}\sqrt{690}e^{25}, \frac{57}{10021}\sqrt{1630}e^{16} + \frac{684}{10021}\sqrt{35}e^{28}$	$(-\frac{2166}{10021}, \frac{513}{10021}, \frac{3705}{10021}, \frac{2622}{10021}, -\frac{1653}{10021}, \frac{1539}{10021}, \frac{456}{10021}, -\frac{1140}{10021}, -\frac{57}{911})$ $+ \frac{57}{10021}\sqrt{7978}e^3 \otimes e_7 + \frac{57}{10021}\sqrt{9994}e^4 \otimes e_9$	{2478, 35689}
9521:52	$0, 0, 0, 0, \frac{9}{509}\sqrt{258}e^{12}, \frac{9}{509}\sqrt{170}e^{13}, \frac{9}{1018}\sqrt{1406}e^{14}, \frac{9}{1018}\sqrt{926}e^{25},$ $\frac{9}{1018}\sqrt{498}e^{16} + \frac{9}{509}\sqrt{187}e^{28}$	$(\frac{54}{509}, \frac{9}{509}, -\frac{27}{509}, -\frac{126}{509}, \frac{63}{509}, \frac{27}{509}, -\frac{72}{509}, \frac{72}{509}, \frac{81}{509})$ $+ \frac{9}{1018}\sqrt{1294}e^1 \otimes e_3 + \frac{9}{509}\sqrt{595}e^2 \otimes e_7$	{1248, 2359}
9521:52	$0, 0, 0, 0, \frac{38}{3449}\sqrt{2935}e^{12}, \frac{38}{3449}\sqrt{4990}e^{13}, \frac{38}{3449}\sqrt{5210}e^{14},$ $\frac{152}{3449}\sqrt{65}e^{25}, \frac{76}{3449}\sqrt{110}e^{16} + \frac{38}{3449}\sqrt{2165}e^{28}$	$(-\frac{741}{3449}, \frac{570}{3449}, \frac{2451}{3449}, -\frac{418}{3449}, -\frac{171}{3449}, \frac{1710}{3449}, -\frac{1159}{3449}, \frac{399}{3449}, \frac{969}{3449})$ $+ \frac{190}{3449}\sqrt{565}e^3 \otimes e_7$	{125679, 134, 2368, 45789}
9521:52	$0, 0, 0, 0, \frac{114}{821}\sqrt{3}e^{12}, \frac{114}{821}\sqrt{15}e^{13}, \frac{19}{821}\sqrt{86}e^{14}, \frac{38}{821}\sqrt{15}e^{25},$ $\frac{57}{821}\sqrt{42}e^{16} + \frac{19}{821}\sqrt{102}e^{28}$	$(\frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{171}{821}, \frac{247}{821}, \frac{171}{821}, \frac{228}{821})$ $+ \frac{19}{821}\sqrt{874}e^1 \otimes e_4 + \frac{266}{821}\sqrt{3}e^3 \otimes e_7$	{12389, 3469}
9521:52	$0, 0, 0, 0, \frac{4}{169}\sqrt{913}e^{12}, \frac{2}{169}\sqrt{1411}e^{13}, \frac{1}{169}\sqrt{11786}e^{14}, \frac{1}{169}\sqrt{3154}e^{25},$ $\frac{1}{169}\sqrt{11786}e^{16} + \frac{2}{169}\sqrt{1411}e^{28}$	$(\frac{71}{169}, -\frac{8}{169}, -\frac{95}{169}, -\frac{7}{169}, \frac{63}{169}, -\frac{24}{169}, \frac{64}{169}, \frac{55}{169}, \frac{47}{169})$ $+ \frac{1}{169}\sqrt{46646}e^1 \otimes e_3$	{12489, 12789, 23457, 235}
9521:52	$0, 0, 0, 0, \frac{7}{282}\sqrt{22}e^{12}, \frac{28}{141}e^{13}, \frac{7}{282}\sqrt{331}e^{14}, \frac{7}{282}\sqrt{39}e^{25},$ $\frac{7}{282}\sqrt{221}e^{16} + \frac{7}{141}\sqrt{39}e^{28}$	$(\frac{14}{141}, -\frac{7}{141}, -\frac{35}{141}, \frac{14}{47}, \frac{7}{141}, -\frac{7}{47}, \frac{56}{141}, 0, -\frac{7}{141})$ $+ \frac{35}{282}\sqrt{22}e^4 \otimes e_9 + \frac{7}{282}\sqrt{461}e^1 \otimes e_3$	{12579, 23478}
9521:52	$0, 0, 0, 0, \frac{12}{305}\sqrt{10}e^{12}, \frac{6}{61}\sqrt{5}e^{13}, \frac{6}{305}\sqrt{295}e^{14}, \frac{6}{305}\sqrt{335}e^{25},$ $\frac{18}{305}\sqrt{5}e^{16} + \frac{6}{305}\sqrt{510}e^{28}$	$(-\frac{9}{61}, \frac{24}{305}, \frac{117}{305}, -\frac{21}{305}, -\frac{21}{305}, \frac{72}{305}, -\frac{66}{305}, \frac{3}{305}, \frac{27}{305})$ $- \frac{12}{305}\sqrt{130}e^3 \otimes e_9 + \frac{6}{305}\sqrt{815}e^2 \otimes e_7$	{12348, 156789, 259, 3467}
9521:52	$0, 0, 0, 0, \frac{12}{305}\sqrt{10}e^{12}, \frac{6}{61}\sqrt{5}e^{13}, \frac{6}{305}\sqrt{295}e^{14}, \frac{6}{305}\sqrt{335}e^{25},$ $\frac{18}{305}\sqrt{5}e^{16} + \frac{6}{305}\sqrt{510}e^{28}$	$(-\frac{9}{61}, \frac{24}{305}, \frac{117}{305}, -\frac{21}{305}, -\frac{21}{305}, \frac{72}{305}, -\frac{66}{305}, \frac{3}{305}, \frac{27}{305})$ $+ \frac{12}{305}\sqrt{130}e^3 \otimes e_9 + \frac{6}{305}\sqrt{815}e^2 \otimes e_7$	{12348, 156789, 259, 3467}
9521:52	$0, 0, 0, 0, \frac{1}{1663}\sqrt{918210}e^{12}, \frac{2}{1663}\sqrt{350655}e^{13}, \frac{4}{1663}\sqrt{69890}e^{14},$ $\frac{9}{1663}\sqrt{2410}e^{25}, \frac{8}{1663}\sqrt{25305}e^{16} + \frac{30}{1663}\sqrt{723}e^{28}$	$(\frac{492}{1663}, \frac{51}{1663}, -\frac{339}{1663}, -\frac{713}{1663}, \frac{543}{1663}, \frac{153}{1663}, -\frac{221}{1663}, \frac{594}{1663}, \frac{645}{1663})$ $+ \frac{10}{1663}\sqrt{34222}e^1 \otimes e_4$	{12389, 1568, 245, 3469}
9521:52	$0, 0, 0, 0, \frac{2}{3461}\sqrt{1155815}e^{12}, \frac{10}{3461}\sqrt{4065}e^{13}, \frac{4}{3461}\sqrt{407855}e^{14},$ $\frac{16}{3461}\sqrt{4065}e^{25}, \frac{2}{3461}\sqrt{849585}e^{16} + \frac{2}{3461}\sqrt{1665295}e^{28}$	$(-\frac{477}{3461}, \frac{8}{3461}, \frac{501}{3461}, \frac{2257}{3461}, -\frac{469}{3461}, \frac{24}{3461}, \frac{1780}{3461}, -\frac{461}{3461}, -\frac{453}{3461})$ $+ \frac{10}{3461}\sqrt{156367}e^4 \otimes e_9$	{123579, 146, 2478, 35689}
9521:52	$0, 0, 0, 0, \frac{13}{2069}\sqrt{145}e^{12}, \frac{13}{2069}\sqrt{462}e^{13}, \frac{13}{2069}\sqrt{1637}e^{14},$ $\frac{13}{2069}\sqrt{879}e^{25}, \frac{26}{2069}\sqrt{114}e^{16} + \frac{13}{2069}\sqrt{1483}e^{28}$	$(-\frac{234}{2069}, \frac{65}{2069}, \frac{429}{2069}, \frac{130}{2069}, -\frac{169}{2069}, \frac{195}{2069}, -\frac{104}{2069}, -\frac{104}{2069}, -\frac{39}{2069})$ $- \frac{13}{2069}\sqrt{1501}e^4 \otimes e_9 + \frac{39}{2069}\sqrt{249}e^2 \otimes e_7$	{1248, 1356789, 2359, 467}
9521:52	$0, 0, 0, 0, \frac{13}{2069}\sqrt{145}e^{12}, \frac{13}{2069}\sqrt{462}e^{13}, \frac{13}{2069}\sqrt{1637}e^{14},$ $\frac{13}{2069}\sqrt{879}e^{25}, \frac{26}{2069}\sqrt{114}e^{16} + \frac{13}{2069}\sqrt{1483}e^{28}$	$(-\frac{234}{2069}, \frac{65}{2069}, \frac{429}{2069}, \frac{130}{2069}, -\frac{169}{2069}, \frac{195}{2069}, -\frac{104}{2069}, -\frac{104}{2069}, -\frac{39}{2069})$ $+ \frac{13}{2069}\sqrt{1501}e^4 \otimes e_9 + \frac{39}{2069}\sqrt{249}e^2 \otimes e_7$	{1248, 1356789, 2359, 467}
9521:52	$0, 0, 0, 0, \frac{96}{1429}\sqrt{37}e^{12}, \frac{32}{1429}\sqrt{57}e^{13}, \frac{32}{1429}\sqrt{334}e^{14}, \frac{64}{1429}\sqrt{93}e^{25},$ $\frac{288}{1429}\sqrt{2}e^{16} + \frac{96}{1429}\sqrt{35}e^{28}$	$(\frac{48}{1429}, \frac{96}{1429}, \frac{240}{1429}, -\frac{464}{1429}, \frac{144}{1429}, \frac{288}{1429}, -\frac{416}{1429}, \frac{240}{1429}, \frac{336}{1429})$ $+ \frac{32}{1429}\sqrt{313}e^1 \otimes e_4 + \frac{32}{1429}\sqrt{933}e^2 \otimes e_7$	{1356789, 467}
9521:53	$0, 0, 0, 0, \frac{38}{821}\sqrt{267}e^{12}, \frac{38}{821}\sqrt{105}e^{13}, \frac{19}{821}\sqrt{1046}e^{24}, \frac{38}{821}\sqrt{255}e^{25},$ $\frac{19}{821}\sqrt{582}e^{16} + \frac{19}{821}\sqrt{858}e^{28}$	$(\frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{171}{821}, -\frac{247}{821}, \frac{171}{821}, \frac{228}{821})$ $+ \frac{19}{821}\sqrt{1834}e^2 \otimes e_4 + \frac{38}{821}\sqrt{93}e^3 \otimes e_7$	{128, 46}
9521:53	$0, 0, 0, 0, \frac{32}{1907}\sqrt{226}e^{12}, \frac{32}{1907}\sqrt{231}e^{13}, \frac{32}{1907}\sqrt{422}e^{24},$ $\frac{64}{1907}\sqrt{134}e^{25}, \frac{32}{1907}\sqrt{3}e^{16} + \frac{96}{1907}\sqrt{78}e^{28}$	$(-\frac{256}{1907}, \frac{144}{1907}, \frac{688}{1907}, -\frac{368}{1907}, -\frac{112}{1907}, \frac{432}{1907}, -\frac{224}{1907}, \frac{32}{1907}, \frac{176}{1907})$ $+ \frac{32}{1907}\sqrt{721}e^3 \otimes e_9 + \frac{64}{1907}\sqrt{247}e^2 \otimes e_4$	{1238, 145689, 259, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:53	$0, 0, 0, 0, \frac{32}{1907}\sqrt{226}e^{12}, \frac{32}{1907}\sqrt{231}e^{13}, \frac{32}{1907}\sqrt{422}e^{24},$ $\frac{64}{1907}\sqrt{134}e^{25}, \frac{32}{1907}\sqrt{3}e^{16} + \frac{96}{1907}\sqrt{78}e^{28}$	$(-\frac{256}{1907}, \frac{144}{1907}, \frac{688}{1907}, -\frac{368}{1907}, -\frac{112}{1907}, \frac{432}{1907}, -\frac{224}{1907}, \frac{32}{1907}, \frac{176}{1907})$ $-\frac{32}{1907}\sqrt{721}e^3 \otimes e_9 + \frac{64}{1907}\sqrt{247}e^2 \otimes e_4$	{1238, 145689, 259, 346}
9521:53	$0, 0, 0, 0, \frac{2}{3069}\sqrt{1570595}e^{12}, \frac{2}{3069}\sqrt{236665}e^{13}, \frac{2}{3069}\sqrt{127435}e^{24},$ $\frac{2}{3069}\sqrt{329345}e^{25}, \frac{2}{3069}\sqrt{1388545}e^{16} + \frac{2}{3069}\sqrt{657035}e^{28}$	$(\frac{1424}{3069}, -\frac{14}{279}, -\frac{1886}{3069}, \frac{199}{1023}, \frac{1270}{3069}, -\frac{14}{93}, \frac{443}{3069}, \frac{4}{11}, \frac{962}{3069})$ $+\frac{2}{3069}\sqrt{4218595}e^1 \otimes e_3$	{124789, 1289, 23457, 235}
9521:53	$0, 0, 0, 0, \frac{2}{3097}\sqrt{1065349}e^{12}, \frac{2}{3097}\sqrt{1586690}e^{13}, \frac{2}{3097}\sqrt{1815746}e^{24},$ $\frac{4}{3097}\sqrt{103791}e^{25}, \frac{2}{3097}\sqrt{635869}e^{16} + \frac{4}{3097}\sqrt{68001}e^{28}$	$(-\frac{492}{3097}, \frac{425}{3097}, \frac{93}{163}, -\frac{1044}{3097}, -\frac{67}{3097}, \frac{1275}{3097}, -\frac{619}{3097}, \frac{358}{3097}, \frac{783}{3097})$ $+\frac{6}{3097}\sqrt{347163}e^3 \otimes e_7$	{1234589, 14678, 27, 3569}
9521:53	$0, 0, 0, 0, \frac{1}{1469}\sqrt{892446}e^{12}, \frac{4}{1469}\sqrt{14007}e^{13}, \frac{4}{1469}\sqrt{49358}e^{24},$ $\frac{1}{1469}\sqrt{916458}e^{25}, \frac{11}{1469}\sqrt{4002}e^{16} + \frac{3}{1469}\sqrt{86710}e^{28}$	$(\frac{27}{1469}, \frac{120}{1469}, \frac{333}{1469}, -\frac{547}{1469}, \frac{147}{1469}, \frac{360}{1469}, -\frac{427}{1469}, \frac{267}{1469}, \frac{387}{1469})$ $+\frac{4}{1469}\sqrt{108721}e^2 \otimes e_4$	{128, 1345689, 2359, 46}
9521:53	$0, 0, 0, 0, \frac{11}{1377}\sqrt{1030}e^{12}, \frac{22}{1377}\sqrt{215}e^{13}, \frac{11}{1377}\sqrt{3290}e^{24},$ $\frac{22}{1377}\sqrt{145}e^{25}, \frac{44}{1377}\sqrt{295}e^{16} + \frac{88}{1377}\sqrt{10}e^{28}$	$(\frac{11}{81}, -\frac{77}{1377}, -\frac{418}{1377}, \frac{11}{27}, \frac{110}{1377}, -\frac{77}{459}, \frac{484}{1377}, \frac{11}{459}, -\frac{44}{1377})$ $+\frac{11}{1377}\sqrt{4870}e^1 \otimes e_3 + \frac{385}{1377}\sqrt{6}e^4 \otimes e_9$	{124568, 23679}
9521:53	$0, 0, 0, 0, \frac{30}{3161}\sqrt{5115}e^{12}, \frac{30}{3161}\sqrt{2545}e^{13}, \frac{1080}{3161}\sqrt{5}e^{24},$ $\frac{60}{3161}\sqrt{330}e^{25}, \frac{60}{3161}\sqrt{1510}e^{16} + \frac{600}{3161}\sqrt{7}e^{28}$	$(-\frac{190}{3161}, -\frac{65}{3161}, -\frac{5}{3161}, \frac{1865}{3161}, -\frac{255}{3161}, \frac{195}{3161}, \frac{1800}{3161}, \frac{320}{3161}, -\frac{385}{3161})$ $+\frac{30}{3161}\sqrt{13285}e^4 \otimes e_9$	{124568, 1389, 23679, 457}
9521:53	$0, 0, 0, 0, \frac{35}{9029}\sqrt{6034}e^{12}, \frac{35}{9029}\sqrt{5222}e^{13}, \frac{70}{9029}\sqrt{2137}e^{24},$ $\frac{35}{9029}\sqrt{2342}e^{25}, \frac{70}{9029}\sqrt{1266}e^{16} + \frac{35}{9029}\sqrt{790}e^{28}$	$(-\frac{1365}{9029}, \frac{280}{9029}, \frac{2205}{9029}, \frac{700}{9029}, -\frac{1085}{9029}, \frac{840}{9029}, \frac{980}{9029}, -\frac{805}{9029}, -\frac{525}{9029})$ $+\frac{35}{9029}\sqrt{8110}e^3 \otimes e_7 + \frac{35}{9029}\sqrt{8426}e^4 \otimes e_9$	{1389, 457}
9521:53	$0, 0, 0, 0, \frac{4}{3193}\sqrt{15371}e^{12}, \frac{2}{3193}\sqrt{840551}e^{13}, \frac{2}{3193}\sqrt{1126937}e^{24},$ $\frac{2}{3193}\sqrt{245127}e^{25}, \frac{4}{3193}\sqrt{261307}e^{16} + \frac{2}{3193}\sqrt{614031}e^{28}$	$(\frac{786}{3193}, \frac{77}{3193}, -\frac{555}{3193}, -\frac{909}{3193}, \frac{863}{3193}, \frac{231}{3193}, -\frac{832}{3193}, \frac{940}{3193}, \frac{1017}{3193})$ $+\frac{6}{3193}\sqrt{243509}e^1 \otimes e_7$	{1246, 1359, 2356789, 478}
9521:53	$0, 0, 0, 0, \frac{44}{601}\sqrt{42}e^{12}, \frac{22}{601}\sqrt{39}e^{13}, \frac{22}{601}\sqrt{35}e^{24}, \frac{22}{601}\sqrt{141}e^{25},$ $\frac{44}{601}\sqrt{3}e^{16} + \frac{198}{601}e^{28}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, \frac{176}{601}, \frac{132}{601}, \frac{165}{601})$ $+\frac{22}{601}\sqrt{213}e^1 \otimes e_7 + \frac{44}{601}\sqrt{79}e^2 \otimes e_4$	{1268, 134589}
9521:53	$0, 0, 0, 0, \frac{82}{6541}\sqrt{1401}e^{12}, \frac{246}{6541}\sqrt{42}e^{13}, \frac{41}{6541}\sqrt{3938}e^{24},$ $\frac{82}{6541}\sqrt{1094}e^{25}, \frac{41}{6541}\sqrt{1182}e^{16} + \frac{41}{6541}\sqrt{2902}e^{28}$	$(\frac{1025}{6541}, \frac{123}{6541}, -\frac{656}{6541}, -\frac{1558}{6541}, \frac{1148}{6541}, \frac{369}{6541}, -\frac{1435}{6541}, \frac{41}{211}, \frac{1394}{6541})$ $+\frac{41}{6541}\sqrt{8122}e^2 \otimes e_4 + \frac{82}{6541}\sqrt{973}e^1 \otimes e_3$	{128, 2359}
9521:57	$0, 0, 0, 0, \frac{6}{473}\sqrt{533}e^{12}, \frac{2}{473}\sqrt{29315}e^{34}, \frac{13}{473}\sqrt{902}e^{13}, \frac{1}{473}\sqrt{22386}e^{15},$ $\frac{3}{473}\sqrt{1066}e^{18} + \frac{6}{473}\sqrt{533}e^{36}$	$(-\frac{15}{473}, \frac{98}{473}, -\frac{155}{473}, \frac{33}{43}, \frac{83}{473}, \frac{208}{473}, -\frac{170}{473}, \frac{68}{473}, \frac{53}{473})$ $+\frac{1}{473}\sqrt{418938}e^4 \otimes e_7$	{125789, 134, 2468, 35679}
9521:57	$0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{12}{119}\sqrt{7}e^{34}, \frac{4}{119}\sqrt{266}e^{13}, \frac{4}{119}\sqrt{77}e^{15},$ $\frac{4}{119}\sqrt{105}e^{18} + \frac{4}{119}\sqrt{14}e^{36}$	$(\frac{3}{17}, -\frac{5}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{2}{17}, 0, \frac{7}{17}, \frac{1}{17}, \frac{4}{17})$ $+\frac{16}{119}\sqrt{21}e^3 \otimes e_4 + \frac{8}{119}\sqrt{105}e^1 \otimes e_2$	{1478, 24}
9521:57	$0, 0, 0, 0, \frac{4}{37}\sqrt{2}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13}, \frac{4}{37}\sqrt{11}e^{15},$ $\frac{12}{37}\sqrt{3}e^{18} + \frac{20}{37}\sqrt{2}e^{36}$	$(\frac{7}{185}, \frac{31}{185}, \frac{84}{185}, -\frac{116}{185}, \frac{38}{185}, -\frac{32}{185}, \frac{91}{185}, \frac{9}{37}, \frac{52}{185})$ $+\frac{8}{37}\sqrt{39}e^3 \otimes e_4$	{123589, 147, 248, 3579}
9521:57	$0, 0, 0, 0, \frac{4}{349}\sqrt{3885}e^{12}, \frac{4}{349}\sqrt{1887}e^{34}, \frac{6}{349}\sqrt{1739}e^{13}, \frac{4}{349}\sqrt{1887}e^{15},$ $\frac{2}{349}\sqrt{7770}e^{18} + \frac{4}{349}\sqrt{3885}e^{36}$	$(-\frac{74}{349}, \frac{209}{349}, -\frac{4}{349}, -\frac{5}{349}, \frac{135}{349}, -\frac{9}{349}, -\frac{78}{349}, \frac{61}{349}, -\frac{13}{349})$ $+\frac{2}{349}\sqrt{31746}e^2 \otimes e_9$	{123678, 128, 134579, 14569}
9521:57	$0, 0, 0, 0, \frac{6}{133}\sqrt{57}e^{12}, \frac{4}{133}\sqrt{57}e^{34}, \frac{1}{133}\sqrt{4674}e^{13}, \frac{1}{133}\sqrt{1482}e^{15},$ $\frac{5}{133}\sqrt{114}e^{18} + \frac{6}{133}\sqrt{57}e^{36}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{2}{7}, 0, 0, \frac{1}{7})$ $+\frac{1}{133}\sqrt{6042}e^4 \otimes e_7 + \frac{2}{133}\sqrt{1938}e^1 \otimes e_2$	{1348, 246}
9521:57	$0, 0, 0, 0, \frac{34}{1663}\sqrt{651}e^{12}, \frac{102}{1663}\sqrt{55}e^{34}, \frac{51}{1663}\sqrt{202}e^{13},$ $\frac{17}{1663}\sqrt{1086}e^{15}, \frac{17}{1663}\sqrt{1302}e^{18} + \frac{34}{1663}\sqrt{651}e^{36}$	$(-\frac{289}{1663}, \frac{782}{1663}, -\frac{221}{1663}, \frac{357}{1663}, \frac{493}{1663}, \frac{136}{1663}, -\frac{510}{1663}, \frac{204}{1663}, -\frac{85}{1663})$ $+\frac{51}{1663}\sqrt{298}e^4 \otimes e_7 + \frac{68}{1663}\sqrt{366}e^2 \otimes e_9$	{123678, 14569}
9521:57	$0, 0, 0, 0, \frac{1}{119}\sqrt{2958}e^{12}, \frac{2}{119}\sqrt{255}e^{34}, \frac{3}{119}\sqrt{170}e^{13}, \frac{2}{119}\sqrt{255}e^{15},$ $\frac{4}{119}\sqrt{51}e^{18} + \frac{6}{119}\sqrt{119}e^{36}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, 0, \frac{1}{7}, 0)$ $+\frac{1}{119}\sqrt{6630}e^2 \otimes e_9 + \frac{3}{119}\sqrt{442}e^3 \otimes e_4$	{123678, 14569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:57	$0, 0, 0, 0, \frac{4}{949}\sqrt{13938}e^{12}, \frac{12}{949}\sqrt{303}e^{34}, \frac{4}{949}\sqrt{22826}e^{13},$ $\frac{4}{949}\sqrt{24341}e^{15}, \frac{12}{949}\sqrt{3737}e^{18} + \frac{4}{949}\sqrt{13938}e^{36}$	$(\frac{287}{949}, -\frac{521}{949}, \frac{84}{949}, \frac{172}{949}, -\frac{18}{73}, \frac{256}{949}, \frac{371}{949}, \frac{53}{949}, \frac{340}{949})$ $+ \frac{8}{949}\sqrt{20301}e^1 \otimes e_2$	{138, 1678, 237, 26}
9521:57	$0, 0, 0, 0, \frac{20}{37}\sqrt{2}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13}, \frac{4}{37}\sqrt{11}e^{15},$ $\frac{12}{37}\sqrt{3}e^{18} + \frac{4}{37}\sqrt{2}e^{36}$	$(-\frac{9}{37}, \frac{27}{37}, -\frac{4}{37}, \frac{8}{37}, \frac{18}{37}, \frac{4}{37}, -\frac{13}{37}, \frac{9}{37}, 0)$ $+ \frac{8}{37}\sqrt{39}e^2 \otimes e_7$	{123, 145789, 2459, 378}
9521:58	$0, 0, 0, 0, \frac{15}{673}\sqrt{113}e^{12}, \frac{45}{673}\sqrt{7}e^{34}, \frac{15}{1346}\sqrt{1338}e^{13}, \frac{15}{1346}\sqrt{194}e^{25},$ $\frac{15}{673}\sqrt{134}e^{28} + \frac{45}{1346}\sqrt{130}e^{36}$	$(\frac{180}{673}, -\frac{75}{673}, \frac{60}{673}, -\frac{165}{673}, \frac{105}{673}, \frac{105}{673}, \frac{240}{673}, \frac{30}{673}, -\frac{45}{673})$ $+ \frac{15}{1346}\sqrt{2154}e^3 \otimes e_4 + \frac{15}{673}\sqrt{662}e^1 \otimes e_9$	{12478, 23579}
9521:58	$0, 0, 0, 0, \frac{3}{49}\sqrt{14}e^{12}, \frac{2}{49}\sqrt{42}e^{34}, \frac{1}{49}\sqrt{546}e^{13}, \frac{2}{49}\sqrt{21}e^{25},$ $\frac{4}{49}\sqrt{21}e^{28} + \frac{3}{49}\sqrt{14}e^{36}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, \frac{1}{7}, 0, 0, -\frac{1}{7})$ $+ \frac{12}{49}\sqrt{7}e^1 \otimes e_9 + \frac{1}{49}\sqrt{798}e^4 \otimes e_7$	{1278, 24569}
9521:58	$0, 0, 0, 0, \frac{2}{1171}\sqrt{112539}e^{12}, \frac{6}{1171}\sqrt{322}e^{34}, \frac{6}{1171}\sqrt{12719}e^{13},$ $\frac{2}{1171}\sqrt{35259}e^{25}, \frac{2}{1171}\sqrt{113505}e^{28} + \frac{2}{1171}\sqrt{112539}e^{36}$	$(\frac{701}{1171}, -\frac{322}{1171}, -\frac{245}{1171}, \frac{225}{1171}, \frac{379}{1171}, -\frac{20}{1171}, \frac{456}{1171}, \frac{57}{1171}, -\frac{265}{1171})$ $+ \frac{28}{1171}\sqrt{2346}e^1 \otimes e_9$	{123468, 12478, 23579, 2569}
9521:58	$0, 0, 0, 0, \frac{3}{557}\sqrt{6090}e^{12}, \frac{16}{557}\sqrt{609}e^{34}, \frac{1}{557}\sqrt{210714}e^{13},$ $\frac{2}{557}\sqrt{10353}e^{25}, \frac{8}{557}\sqrt{1218}e^{28} + \frac{3}{557}\sqrt{6090}e^{36}$	$(-\frac{26}{557}, \frac{49}{557}, \frac{154}{557}, \frac{429}{557}, \frac{23}{557}, \frac{275}{557}, -\frac{180}{557}, \frac{72}{557}, \frac{121}{557})$ $+ \frac{7}{557}\sqrt{11310}e^4 \otimes e_7$	{12579, 134, 2468, 356789}
9521:58	$0, 0, 0, 0, \frac{3}{317}\sqrt{146}e^{12}, \frac{3}{317}\sqrt{102}e^{34}, \frac{36}{317}\sqrt{3}e^{13}, \frac{6}{317}\sqrt{65}e^{25},$ $\frac{3}{317}\sqrt{398}e^{28} + \frac{18}{317}\sqrt{2}e^{36}$	$(\frac{9}{317}, -\frac{6}{317}, -\frac{33}{317}, \frac{57}{317}, \frac{3}{317}, \frac{24}{317}, -\frac{24}{317}, -\frac{3}{317}, -\frac{9}{317})$ $+ \frac{3}{317}\sqrt{654}e^2 \otimes e_7 + \frac{6}{317}\sqrt{122}e^1 \otimes e_9$	{1238, 2459}
9521:58	$0, 0, 0, 0, \frac{4}{207}\sqrt{145}e^{12}, \frac{4}{207}\sqrt{174}e^{34}, \frac{2}{207}\sqrt{6438}e^{13}, \frac{10}{207}\sqrt{58}e^{25},$ $\frac{4}{207}\sqrt{87}e^{28} + \frac{2}{207}\sqrt{5974}e^{36}$	$(-\frac{13}{207}, \frac{11}{69}, \frac{106}{207}, -\frac{14}{23}, \frac{20}{207}, -\frac{20}{31}, \frac{53}{69}, \frac{86}{207})$ $+ \frac{2}{207}\sqrt{19662}e^3 \otimes e_4$	{12457, 139, 23789, 458}
9521:58	$0, 0, 0, 0, \frac{2}{213}\sqrt{795}e^{12}, \frac{2}{71}\sqrt{106}e^{34}, \frac{2}{213}\sqrt{4611}e^{13}, \frac{2}{213}\sqrt{3763}e^{25},$ $\frac{6}{71}\sqrt{53}e^{28} + \frac{2}{71}\sqrt{265}e^{36}$	$(-\frac{23}{71}, \frac{46}{213}, \frac{3}{71}, \frac{17}{71}, -\frac{23}{213}, \frac{20}{71}, -\frac{20}{71}, \frac{23}{213}, \frac{23}{71})$ $+ \frac{4}{71}\sqrt{265}e^2 \otimes e_7$	{1238, 145789, 2459, 37}
9521:58	$0, 0, 0, 0, \frac{3}{62}\sqrt{6}e^{12}, \frac{3}{62}\sqrt{22}e^{34}, \frac{3}{62}\sqrt{94}e^{13}, \frac{3}{62}\sqrt{58}e^{25},$ $\frac{3}{62}\sqrt{62}e^{28} + \frac{9}{62}\sqrt{2}e^{36}$	$(-\frac{9}{31}, \frac{6}{31}, \frac{6}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, \frac{3}{31}, \frac{9}{31})$ $+ \frac{3}{62}\sqrt{146}e^2 \otimes e_7 - \frac{3}{62}\sqrt{74}e^3 \otimes e_4$	{1238, 145789, 2459, 37}
9521:58	$0, 0, 0, 0, \frac{3}{62}\sqrt{6}e^{12}, \frac{3}{62}\sqrt{22}e^{34}, \frac{3}{62}\sqrt{94}e^{13}, \frac{3}{62}\sqrt{58}e^{25},$ $\frac{3}{62}\sqrt{62}e^{28} + \frac{9}{62}\sqrt{2}e^{36}$	$(-\frac{9}{31}, \frac{6}{31}, \frac{6}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, \frac{3}{31}, \frac{9}{31})$ $+ \frac{3}{62}\sqrt{146}e^2 \otimes e_7 + \frac{3}{62}\sqrt{74}e^3 \otimes e_4$	{1238, 145789, 2459, 37}
9521:59	$0, 0, 0, 0, \frac{2}{67}\sqrt{665}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13}, \frac{4}{67}\sqrt{35}e^{15},$ $\frac{2}{67}\sqrt{455}e^{18} + \frac{4}{67}\sqrt{70}e^{46}$	$(-\frac{14}{67}, \frac{48}{67}, -\frac{8}{67}, \frac{7}{67}, \frac{34}{67}, -\frac{1}{67}, -\frac{22}{67}, \frac{20}{67}, \frac{6}{67})$ $- \frac{28}{67}\sqrt{10}e^2 \otimes e_7$	{123, 12346, 145789, 156789, 2459, 2569, 34678, 378}
9521:59	$0, 0, 0, 0, \frac{2}{67}\sqrt{665}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13}, \frac{4}{67}\sqrt{35}e^{15},$ $\frac{2}{67}\sqrt{455}e^{18} + \frac{4}{67}\sqrt{70}e^{46}$	$(-\frac{14}{67}, \frac{48}{67}, -\frac{8}{67}, \frac{7}{67}, \frac{34}{67}, -\frac{1}{67}, -\frac{22}{67}, \frac{20}{67}, \frac{6}{67})$ $+ \frac{28}{67}\sqrt{10}e^2 \otimes e_7$	{123, 12346, 145789, 156789, 2459, 2569, 34678, 378}
9521:59	$0, 0, 0, 0, \frac{102}{7573}\sqrt{569}e^{12}, \frac{102}{7573}\sqrt{627}e^{34}, \frac{1377}{7573}\sqrt{2}e^{13},$ $\frac{51}{7573}\sqrt{122}e^{15}, \frac{51}{7573}\sqrt{298}e^{18} + \frac{306}{7573}\sqrt{143}e^{46}$	$(-\frac{867}{7573}, \frac{2856}{7573}, -\frac{1071}{7573}, \frac{663}{7573}, \frac{1989}{7573}, -\frac{408}{7573}, -\frac{1938}{7573}, \frac{1122}{7573}, \frac{255}{7573})$ $+ \frac{102}{7573}\sqrt{1541}e^2 \otimes e_9 + \frac{51}{7573}\sqrt{7158}e^4 \otimes e_7$	{24568, 3679}
9521:59	$0, 0, 0, 0, \frac{1}{1665}\sqrt{11990}e^{12}, \frac{11}{1665}\sqrt{7194}e^{34}, \frac{8}{555}\sqrt{2398}e^{13},$ $\frac{4}{1665}\sqrt{15587}e^{15}, \frac{109}{1665}\sqrt{66}e^{18} + \frac{4}{1665}\sqrt{99517}e^{46}$	$(\frac{38}{555}, \frac{7}{45}, -\frac{15}{37}, \frac{638}{1665}, \frac{373}{1665}, -\frac{1}{45}, -\frac{187}{555}, \frac{487}{1665}, \frac{601}{1665})$ $+ \frac{1}{1665}\sqrt{3359598}e^4 \otimes e_7$	{127, 134589, 235679, 468}
9521:59	$0, 0, 0, 0, \frac{13}{423}\sqrt{58}e^{12}, \frac{13}{141}\sqrt{10}e^{34}, \frac{52}{423}\sqrt{15}e^{13}, \frac{104}{423}e^{15},$ $\frac{13}{423}\sqrt{30}e^{18} + \frac{52}{423}\sqrt{10}e^{46}$	$(\frac{26}{141}, -\frac{91}{423}, -\frac{13}{47}, \frac{130}{423}, -\frac{13}{423}, \frac{13}{423}, -\frac{13}{141}, \frac{65}{423}, \frac{143}{423})$ $+ \frac{13}{141}\sqrt{46}e^4 \otimes e_7 + \frac{52}{423}\sqrt{21}e^1 \otimes e_2$	{178, 246}
9521:59	$0, 0, 0, 0, \frac{46}{1171}\sqrt{357}e^{12}, \frac{4}{1171}\sqrt{18354}e^{34}, \frac{6}{1171}\sqrt{12719}e^{13},$ $\frac{4}{1171}\sqrt{18354}e^{15}, \frac{2}{1171}\sqrt{113505}e^{18} + \frac{6}{1171}\sqrt{4186}e^{46}$	$(-\frac{322}{1171}, \frac{780}{1171}, \frac{304}{1171}, -\frac{245}{1171}, \frac{458}{1171}, \frac{59}{1171}, -\frac{18}{1171}, \frac{136}{1171}, -\frac{186}{1171})$ $+ \frac{28}{1171}\sqrt{2346}e^2 \otimes e_9$	{12468, 128, 134579, 135679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:60	$0, 0, 0, 0, \frac{8}{1481}\sqrt{8646e^{12}}, \frac{40}{1481}\sqrt{66e^{34}}, \frac{24}{1481}\sqrt{1551e^{13}},$ $\frac{8}{1481}\sqrt{3003e^{25}}, \frac{32}{1481}\sqrt{561e^{28}} + \frac{8}{1481}\sqrt{13299e^{46}}$	$(\frac{796}{1481}, -\frac{352}{1481}, -\frac{100}{1481}, -\frac{80}{1481}, \frac{444}{1481}, -\frac{180}{1481}, \frac{696}{1481}, \frac{92}{1481}, -\frac{260}{1481})$ $+ \frac{16}{1481}\sqrt{9966e^1} \otimes e_9$	{123468, 1238, 2459, 2569}
9521:60	$0, 0, 0, 0, \frac{12}{239}\sqrt{5e^{12}}, \frac{12}{1673}\sqrt{111e^{34}}, \frac{36}{1673}\sqrt{57e^{13}}, \frac{12}{1673}\sqrt{323e^{25}},$ $\frac{60}{1673}\sqrt{17e^{28}} + \frac{36}{1673}\sqrt{17e^{46}}$	$(\frac{18}{239}, -\frac{24}{1673}, -\frac{222}{1673}, \frac{138}{1673}, \frac{102}{1673}, -\frac{12}{239}, -\frac{96}{1673}, \frac{78}{1673}, \frac{54}{1673})$ $+ \frac{12}{1673}\sqrt{789e^2} \otimes e_7 + \frac{96}{1673}\sqrt{11e^1} \otimes e_9$	{123468, 1238, 2459, 2569}
9521:60	$0, 0, 0, 0, \frac{12}{239}\sqrt{5e^{12}}, \frac{12}{1673}\sqrt{111e^{34}}, \frac{36}{1673}\sqrt{57e^{13}}, \frac{12}{1673}\sqrt{323e^{25}},$ $\frac{60}{1673}\sqrt{17e^{28}} + \frac{36}{1673}\sqrt{17e^{46}}$	$(\frac{18}{239}, -\frac{24}{1673}, -\frac{222}{1673}, \frac{138}{1673}, \frac{102}{1673}, -\frac{12}{239}, -\frac{96}{1673}, \frac{78}{1673}, \frac{54}{1673})$ $- \frac{12}{1673}\sqrt{789e^2} \otimes e_7 + \frac{96}{1673}\sqrt{11e^1} \otimes e_9$	{123468, 1238, 2459, 2569}
9521:60	$0, 0, 0, 0, \frac{8}{4371}\sqrt{2354e^{12}}, \frac{8}{4371}\sqrt{116630e^{34}}, \frac{8}{4371}\sqrt{117807e^{13}},$ $\frac{8}{4371}\sqrt{28355e^{25}}, \frac{32}{4371}\sqrt{1605e^{28}} + \frac{8}{4371}\sqrt{164459e^{46}}$	$(-\frac{284}{4371}, \frac{264}{1457}, -\frac{1396}{4371}, \frac{1744}{4371}, \frac{508}{4371}, \frac{116}{1457}, -\frac{560}{1457}, \frac{1300}{4371}, \frac{2092}{4371})$ $+ \frac{16}{4371}\sqrt{95658e^4} \otimes e_7$	{1257, 1349, 236789, 4568}
9521:60	$0, 0, 0, 0, \frac{48}{6383}\sqrt{494e^{12}}, \frac{48}{6383}\sqrt{570e^{34}}, \frac{144}{6383}\sqrt{197e^{13}},$ $\frac{336}{6383}\sqrt{5e^{25}}, \frac{96}{6383}\sqrt{95e^{28}} + \frac{48}{6383}\sqrt{2001e^{46}}$	$(\frac{1368}{6383}, -\frac{384}{6383}, -\frac{1608}{6383}, \frac{912}{6383}, \frac{984}{6383}, -\frac{696}{6383}, -\frac{240}{6383}, \frac{600}{6383}, \frac{216}{6383})$ $+ \frac{480}{6383}\sqrt{29e^1} \otimes e_9 + \frac{96}{6383}\sqrt{687e^4} \otimes e_7$	{1278, 235679}
9521:61	$0, 0, 0, 0, \frac{98}{4341}\sqrt{602e^{12}}, \frac{98}{4341}\sqrt{129e^{13}},$ $\frac{49}{1447}\sqrt{354e^{14}} + \frac{49}{4341}\sqrt{830e^{23}}, \frac{98}{4341}\sqrt{946e^{15}}, \frac{49}{4341}\sqrt{3298e^{18}} + \frac{245}{4341}\sqrt{38e^{36}}$	$(\frac{931}{4341}, -\frac{980}{4341}, \frac{147}{1447}, -\frac{490}{1447}, \frac{49}{4341}, \frac{1372}{4341}, -\frac{539}{4341}, \frac{294}{1447}, \frac{1813}{4341})$ $+ \frac{98}{4341}\sqrt{1851e^1} \otimes e_4$	{1238, 2345689}
9521:61	$0, 0, 0, 0, \frac{8}{91}\sqrt{33e^{12}}, \frac{12}{91}\sqrt{19e^{13}}, \frac{12}{91}\sqrt{19e^{14}} + \frac{4}{91}\sqrt{246e^{23}},$ $\frac{4}{91}\sqrt{141e^{15}}, \frac{4}{91}\sqrt{246e^{18}} + \frac{12}{91}\sqrt{2e^{36}}$	$(-\frac{16}{91}, \frac{4}{13}, -\frac{2}{91}, \frac{6}{13}, \frac{12}{91}, -\frac{18}{91}, \frac{2}{7}, -\frac{4}{91}, -\frac{20}{91})$ $+ \frac{4}{91}\sqrt{465e^2} \otimes e_9$	{12368, 12478}
9521:61	$0, 0, 0, 0, \frac{472}{4221}\sqrt{7e^{12}}, \frac{236}{4221}\sqrt{6e^{13}},$ $\frac{59}{4221}\sqrt{3486e^{14}} + \frac{59}{4221}\sqrt{1578e^{23}}, \frac{472}{4221}\sqrt{11e^{15}}, \frac{59}{4221}\sqrt{10e^{18}} + \frac{59}{4221}\sqrt{3070e^{36}}$	$(-\frac{295}{1407}, \frac{236}{603}, -\frac{59}{4221}, \frac{118}{201}, \frac{767}{4221}, -\frac{944}{4221}, \frac{177}{469}, -\frac{118}{4221}, -\frac{1003}{4221})$ $+ \frac{118}{1407}\sqrt{199e^4} \otimes e_9$	{12458, 2689}
9521:62	$0, 0, 0, 0, \frac{56}{3327}\sqrt{446e^{12}}, \frac{112}{1109}\sqrt{6e^{13}},$ $\frac{56}{3327}\sqrt{1619e^{14}} + \frac{560}{3327}\sqrt{13e^{23}}, \frac{56}{3327}\sqrt{607e^{25}}, \frac{112}{3327}\sqrt{331e^{28}} + \frac{56}{3327}\sqrt{1101e^{36}}$	$(-\frac{868}{3327}, \frac{112}{1109}, \frac{168}{1109}, \frac{1708}{3327}, -\frac{532}{3327}, -\frac{364}{3327}, \frac{280}{1109}, -\frac{196}{3327}, \frac{140}{3327})$ $+ \frac{56}{3327}\sqrt{2806e^4} \otimes e_9$	{123579, 234678}
9521:62	$0, 0, 0, 0, \frac{80}{3231}\sqrt{1086e^{12}}, \frac{80}{3231}\sqrt{1038e^{13}}, \frac{80}{3231}\sqrt{293e^{14}} + \frac{2080}{3231}e^{23},$ $\frac{80}{3231}\sqrt{415e^{25}}, \frac{320}{3231}\sqrt{6e^{28}} + \frac{80}{3231}\sqrt{447e^{36}}$	$(\frac{1400}{3231}, -\frac{160}{3231}, -\frac{80}{1077}, -\frac{200}{359}, \frac{1240}{3231}, \frac{1160}{3231}, -\frac{400}{3231}, \frac{120}{359}, \frac{920}{3231})$ $+ \frac{880}{3231}\sqrt{22e^1} \otimes e_4$	{12689, 245}
9521:63	$0, 0, 0, 0, \frac{122}{4899}\sqrt{946e^{12}}, \frac{122}{4899}\sqrt{695e^{13}}, \frac{122}{4899}\sqrt{1085e^{34}},$ $\frac{305}{4899}\sqrt{58e^{15}}, \frac{244}{4899}\sqrt{21e^{18}} + \frac{122}{4899}\sqrt{890e^{24}} + \frac{122}{1633}\sqrt{37e^{36}}$	$(-\frac{610}{4899}, \frac{854}{1633}, \frac{671}{4899}, -\frac{610}{1633}, \frac{1952}{4899}, \frac{61}{4899}, -\frac{1159}{4899}, \frac{1342}{4899}, \frac{244}{1633})$ $+ \frac{1342}{4899}\sqrt{17e^2} \otimes e_7$	{14579, 37}
9521:63	$0, 0, 0, 0, \frac{2}{155}\sqrt{258e^{12}}, \frac{2}{155}\sqrt{217e^{13}}, \frac{2}{155}\sqrt{410e^{34}}, \frac{6}{155}\sqrt{31e^{15}},$ $\frac{36}{155}e^{18} + \frac{2}{155}\sqrt{29e^{24}} + \frac{2}{155}\sqrt{33e^{36}}$	$(-\frac{6}{155}, \frac{4}{31}, \frac{4}{155}, -\frac{18}{155}, \frac{14}{155}, -\frac{2}{155}, -\frac{14}{155}, \frac{8}{155}, \frac{2}{155})$ $+ \frac{2}{155}\sqrt{543e^1} \otimes e_7$	{159, 467}
9521:64	$0, 0, 0, 0, \frac{28}{1479}\sqrt{330e^{12}}, \frac{14}{1479}\sqrt{615e^{13}}, \frac{14}{1479}\sqrt{1965e^{34}},$ $\frac{7}{1479}\sqrt{4930e^{25}}, \frac{7}{493}\sqrt{430e^{14}} + \frac{28}{1479}\sqrt{330e^{28}} + \frac{14}{1479}\sqrt{615e^{36}}$	$(\frac{98}{493}, -\frac{70}{1479}, -\frac{35}{493}, -\frac{70}{493}, \frac{224}{1479}, \frac{63}{493}, -\frac{105}{493}, \frac{154}{1479}, \frac{28}{493})$ $+ \frac{70}{1479}\sqrt{129e^2} \otimes e_7$	{145789, 467}
9521:64	$0, 0, 0, 0, \frac{10}{47}\sqrt{10e^{12}}, \frac{2}{47}\sqrt{95e^{13}}, \frac{10}{47}\sqrt{10e^{34}}, \frac{2}{47}\sqrt{55e^{25}},$ $\frac{2}{47}\sqrt{155e^{14}} + \frac{2}{47}\sqrt{15e^{28}} + \frac{2}{47}\sqrt{15e^{36}}$	$(\frac{22}{47}, -\frac{4}{47}, -\frac{6}{47}, -\frac{12}{47}, \frac{18}{47}, \frac{16}{47}, -\frac{18}{47}, \frac{14}{47}, \frac{10}{47})$ $+ \frac{10}{47}\sqrt{31e^1} \otimes e_7$	{13458, 479}
9521:71	$0, 0, 0, 0, \frac{126}{5665}\sqrt{623e^{12}}, \frac{378}{5665}\sqrt{19e^{13}},$ $\frac{63}{5665}\sqrt{4778e^{14}} + \frac{63}{5665}\sqrt{2542e^{23}}, \frac{63}{5665}\sqrt{1446e^{25}}, \frac{63}{5665}\sqrt{1346e^{16}} + \frac{63}{5665}\sqrt{5006e^{28}}$	$(-\frac{252}{1133}, \frac{189}{5665}, \frac{1827}{5665}, \frac{3276}{5665}, \frac{1071}{5665}, \frac{567}{5665}, \frac{2016}{5665}, -\frac{882}{5665}, -\frac{63}{515})$ $+ \frac{63}{5665}\sqrt{9534e^4} \otimes e_9$	{123579, 35689}
9521:71	$0, 0, 0, 0, \frac{882}{5485}\sqrt{13e^{12}}, \frac{2268}{5485}\sqrt{3e^{13}},$ $\frac{63}{5485}\sqrt{2974e^{14}} + \frac{126}{5485}\sqrt{67e^{23}}, \frac{252}{5485}\sqrt{39e^{25}}, \frac{63}{5485}\sqrt{4358e^{16}} + \frac{63}{5485}\sqrt{1678e^{28}}$	$(\frac{315}{1097}, \frac{189}{5485}, -\frac{1008}{5485}, -\frac{2394}{5485}, \frac{1764}{5485}, \frac{567}{5485}, -\frac{819}{5485}, \frac{1953}{5485}, \frac{2142}{5485})$ $+ \frac{63}{5485}\sqrt{9366e^1} \otimes e_4$	{245, 3469}
9521:72	$0, 0, 0, 0, \frac{74}{2889}\sqrt{739e^{12}}, \frac{148}{2889}\sqrt{37e^{13}}, \frac{74}{2889}\sqrt{763e^{14}},$ $\frac{296}{2889}\sqrt{3e^{15}}, \frac{148}{2889}\sqrt{11e^{18}} + \frac{74}{2889}\sqrt{149e^{24}} + \frac{74}{2889}\sqrt{138e^{36}}$	$(-\frac{296}{2889}, \frac{518}{963}, \frac{481}{2889}, -\frac{296}{963}, \frac{1258}{2889}, \frac{185}{2889}, -\frac{1184}{2889}, \frac{962}{2889}, \frac{74}{321})$ $- \frac{74}{2889}\sqrt{2418e^2} \otimes e_7$	{12346, 124, 2359, 2569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:72	$0, 0, 0, 0, \frac{74}{2889}\sqrt{739}e^{12}, \frac{148}{2889}\sqrt{37}e^{13}, \frac{74}{2889}\sqrt{763}e^{14}, \frac{296}{2889}\sqrt{3}e^{15}, \frac{518}{2889}\sqrt{11}e^{18} + \frac{148}{2889}\sqrt{149}e^{24} + \frac{74}{2889}\sqrt{138}e^{36}$	$(-\frac{296}{2889}, \frac{518}{963}, \frac{481}{2889}, -\frac{296}{963}, \frac{1258}{2889}, \frac{185}{2889}, -\frac{1184}{2889}, \frac{962}{2889}, \frac{74}{321}) + \frac{74}{2889}\sqrt{2418}e^2 \otimes e_7$	{12346, 124, 2359, 2569}
9521:72	$0, 0, 0, 0, \frac{188}{5445}\sqrt{67}e^{12}, \frac{94}{5445}\sqrt{1113}e^{13}, \frac{47}{5445}\sqrt{5226}e^{14}, \frac{47}{5445}\sqrt{2846}e^{15}, \frac{47}{5445}\sqrt{3774}e^{18} + \frac{148}{815}\sqrt{43}e^{24} + \frac{94}{5445}\sqrt{1351}e^{36}$	$(-\frac{47}{605}, \frac{376}{1089}, \frac{47}{495}, -\frac{141}{605}, \frac{1457}{5445}, \frac{94}{5445}, -\frac{188}{605}, \frac{94}{495}, \frac{611}{5445}) + \frac{47}{1089}\sqrt{390}e^3 \otimes e_7$	{1234589, 2368}
9521:73	$0, 0, 0, 0, \frac{94}{5793}\sqrt{543}e^{12}, \frac{94}{1931}\sqrt{41}e^{13}, \frac{47}{5793}\sqrt{5010}e^{14}, \frac{47}{5793}\sqrt{3862}e^{25}, \frac{47}{5793}\sqrt{2982}e^{16} + \frac{47}{1931}\sqrt{502}e^{28} + \frac{47}{5793}\sqrt{1158}e^{34}$	$(-\frac{188}{1931}, \frac{517}{5793}, \frac{705}{1931}, -\frac{376}{1931}, \frac{47}{5793}, \frac{517}{1931}, -\frac{564}{1931}, \frac{470}{5793}, \frac{329}{1931}) + \frac{47}{1931}\sqrt{1110}e^2 \otimes e_7$	{1248, 467}
9521:73	$0, 0, 0, 0, \frac{38}{729}\sqrt{67}e^{12}, \frac{38}{729}\sqrt{159}e^{13}, \frac{38}{729}\sqrt{186}e^{14}, \frac{38}{729}\sqrt{43}e^{25}, \frac{38}{243}\sqrt{6}e^{16} + \frac{38}{729}\sqrt{39}e^{28} + \frac{38}{729}\sqrt{133}e^{34}$	$(-\frac{95}{729}, \frac{38}{243}, \frac{437}{729}, -\frac{190}{729}, \frac{19}{729}, \frac{38}{81}, -\frac{95}{243}, \frac{133}{729}, \frac{247}{729}) + \frac{380}{729}\sqrt{6}e^3 \otimes e_7$	{134, 45789}
9521:74	$0, 0, 0, 0, \frac{10}{1241}\sqrt{505}e^{12}, \frac{10}{1241}\sqrt{1645}e^{13}, \frac{15}{1241}\sqrt{890}e^{24}, \frac{5}{1241}\sqrt{2270}e^{25}, \frac{15}{1241}\sqrt{590}e^{14} + \frac{10}{1241}\sqrt{505}e^{28} + \frac{10}{1241}\sqrt{1645}e^{36}$	$(\frac{195}{1241}, -\frac{50}{1241}, -\frac{75}{1241}, -\frac{150}{1241}, \frac{145}{1241}, \frac{120}{1241}, -\frac{200}{1241}, \frac{95}{1241}, \frac{45}{1241}) + \frac{5}{1241}\sqrt{11210}e^3 \otimes e_7$	{1234589, 2346}
9521:74	$0, 0, 0, 0, \frac{74}{1657}\sqrt{137}e^{12}, \frac{37}{1657}\sqrt{777}e^{13}, \frac{74}{1657}\sqrt{253}e^{24}, \frac{37}{1657}\sqrt{151}e^{25}, \frac{37}{1657}\sqrt{435}e^{14} + \frac{37}{1657}\sqrt{554}e^{28} + \frac{37}{1657}\sqrt{226}e^{36}$	$(\frac{777}{1657}, -\frac{148}{1657}, \frac{222}{1657}, -\frac{444}{1657}, \frac{629}{1657}, \frac{555}{1657}, -\frac{592}{1657}, \frac{481}{1657}, \frac{333}{1657}) + \frac{37}{1657}\sqrt{2755}e^1 \otimes e_7$	{1359, 1569}
9521:75	$0, 0, 0, 0, \frac{14}{3901}\sqrt{649}e^{12}, \frac{224}{3901}\sqrt{5}e^{13}, \frac{7}{3901}\sqrt{6086}e^{24}, \frac{7}{3901}\sqrt{1794}e^{25}, \frac{196}{3901}\sqrt{7}e^{16} + \frac{28}{3901}\sqrt{69}e^{28} + \frac{7}{3901}\sqrt{4962}e^{34}$	$(-\frac{105}{3901}, \frac{56}{3901}, \frac{273}{3901}, -\frac{210}{3901}, -\frac{49}{3901}, \frac{168}{3901}, -\frac{154}{3901}, \frac{7}{3901}, \frac{63}{3901}) + \frac{91}{3901}\sqrt{42}e^1 \otimes e_7$	{1234589, 345679}
9521:75	$0, 0, 0, 0, \frac{28}{509}\sqrt{151}e^{12}, \frac{14}{509}\sqrt{890}e^{13}, \frac{28}{509}\sqrt{254}e^{24}, \frac{42}{509}\sqrt{26}e^{25}, \frac{28}{509}\sqrt{91}e^{16} + \frac{168}{509}e^{28} + \frac{14}{509}\sqrt{30}e^{34}$	$(-\frac{84}{509}, \frac{70}{509}, \frac{294}{509}, -\frac{168}{509}, -\frac{14}{509}, \frac{210}{509}, -\frac{98}{509}, \frac{56}{509}, \frac{126}{509}) + \frac{14}{509}\sqrt{1722}e^3 \otimes e_7$	{1234589, 14678}
9521:76	$0, 0, 0, 0, \frac{14}{409}\sqrt{93}e^{12}, \frac{14}{409}\sqrt{111}e^{13}, \frac{42}{409}\sqrt{34}e^{23}, \frac{7}{409}\sqrt{966}e^{15}, \frac{42}{409}\sqrt{34}e^{18} + \frac{21}{409}\sqrt{74}e^{24} + \frac{28}{409}\sqrt{30}e^{36}$	$(\frac{56}{409}, -\frac{98}{409}, \frac{7}{409}, \frac{168}{409}, -\frac{42}{409}, \frac{63}{409}, -\frac{91}{409}, \frac{14}{409}, \frac{70}{409}) + \frac{56}{409}\sqrt{33}e^1 \otimes e_7$	{159, 347}
9521:76	$0, 0, 0, 0, \frac{134}{4701}\sqrt{749}e^{12}, \frac{67}{1567}\sqrt{298}e^{13}, \frac{67}{4701}\sqrt{3890}e^{23}, \frac{134}{4701}\sqrt{346}e^{15}, \frac{67}{4701}\sqrt{1246}e^{18} + \frac{134}{4701}\sqrt{510}e^{24} + \frac{67}{4701}\sqrt{542}e^{36}$	$(-\frac{737}{4701}, \frac{2278}{4701}, \frac{134}{1567}, -\frac{737}{1567}, \frac{1541}{4701}, -\frac{335}{4701}, \frac{2680}{4701}, \frac{268}{1567}, \frac{67}{4701}) + \frac{134}{4701}\sqrt{1983}e^2 \otimes e_4$	{347, 46}
9521:76	$0, 0, 0, 0, \frac{68}{291}\sqrt{7}e^{12}, \frac{68}{291}\sqrt{3}e^{13}, \frac{34}{291}\sqrt{58}e^{23}, \frac{17}{291}\sqrt{46}e^{15}, \frac{34}{291}\sqrt{17}e^{18} + \frac{17}{291}\sqrt{174}e^{24} + \frac{136}{291}\sqrt{2}e^{36}$	$(\frac{68}{291}, -\frac{34}{97}, \frac{17}{291}, \frac{68}{97}, -\frac{34}{291}, \frac{85}{291}, -\frac{85}{291}, \frac{34}{291}, \frac{34}{97}) + \frac{34}{291}\sqrt{123}e^4 \otimes e_7$	{12579, 234}
9521:77	$0, 0, 0, 0, \frac{122}{4629}\sqrt{107}e^{12}, \frac{61}{4629}\sqrt{4226}e^{13}, \frac{61}{4629}\sqrt{3938}e^{23}, \frac{122}{4629}\sqrt{453}e^{25}, \frac{61}{4629}\sqrt{3334}e^{14} + \frac{122}{4629}\sqrt{187}e^{28} + \frac{61}{4629}\sqrt{2674}e^{36}$	$(\frac{2257}{4629}, -\frac{488}{4629}, \frac{244}{1543}, -\frac{488}{1543}, \frac{1769}{4629}, \frac{1525}{4629}, -\frac{1220}{4629}, \frac{427}{1543}, \frac{793}{4629}) + \frac{244}{4629}\sqrt{485}e^1 \otimes e_4$	{346, 47}
9521:77	$0, 0, 0, 0, \frac{2}{139}\sqrt{26}e^{12}, \frac{2}{139}\sqrt{39}e^{13}, \frac{10}{139}\sqrt{3}e^{23}, \frac{1}{139}\sqrt{102}e^{25}, \frac{2}{139}\sqrt{266}e^{14} + \frac{2}{139}\sqrt{26}e^{28} + \frac{2}{139}\sqrt{39}e^{36}$	$(-\frac{6}{139}, \frac{2}{139}, \frac{3}{139}, \frac{6}{139}, -\frac{4}{139}, -\frac{3}{139}, \frac{5}{139}, -\frac{2}{139}, 0) + \frac{2}{139}\sqrt{71}e^4 \otimes e_7$	{125789, 267}
9521:77	$0, 0, 0, 0, \frac{14}{137}\sqrt{15}e^{12}, \frac{7}{137}\sqrt{5}e^{13}, \frac{7}{137}\sqrt{262}e^{23}, \frac{21}{137}\sqrt{7}e^{25}, \frac{14}{137}\sqrt{241}e^{14} + \frac{7}{137}\sqrt{130}e^{28} + \frac{70}{137}e^{36}$	$(\frac{63}{137}, -\frac{14}{137}, -\frac{21}{137}, -\frac{42}{137}, \frac{49}{137}, \frac{42}{137}, -\frac{35}{137}, \frac{35}{137}, \frac{21}{137}) + \frac{35}{137}\sqrt{19}e^1 \otimes e_7$	{159, 378}
9521:78	$0, 0, 0, 0, \frac{134}{4501}\sqrt{199}e^{12}, \frac{67}{4501}\sqrt{2006}e^{13}, \frac{134}{4501}\sqrt{779}e^{23}, \frac{134}{4501}\sqrt{154}e^{25}, \frac{268}{4501}\sqrt{21}e^{16} + \frac{67}{4501}\sqrt{1894}e^{28} + \frac{67}{4501}\sqrt{3374}e^{34}$	$(\frac{201}{643}, -\frac{67}{4501}, -\frac{1608}{4501}, \frac{402}{643}, \frac{1340}{4501}, -\frac{201}{4501}, -\frac{1675}{4501}, \frac{1273}{4501}, \frac{1206}{4501}) + \frac{67}{4501}\sqrt{7734}e^4 \otimes e_7$	{127, 135679}
9521:78	$0, 0, 0, 0, \frac{10}{469}\sqrt{65}e^{12}, \frac{10}{469}\sqrt{715}e^{13}, \frac{10}{469}\sqrt{1010}e^{23}, \frac{10}{469}\sqrt{235}e^{25}, \frac{30}{469}\sqrt{130}e^{16} + \frac{10}{469}\sqrt{355}e^{28} + \frac{10}{469}\sqrt{745}e^{34}$	$(\frac{15}{67}, -\frac{10}{469}, -\frac{135}{469}, \frac{30}{67}, \frac{95}{469}, -\frac{30}{469}, -\frac{145}{469}, \frac{85}{469}, \frac{75}{469}) - \frac{20}{469}\sqrt{510}e^1 \otimes e_7$	{1234589, 1468, 247, 345679}
9521:78	$0, 0, 0, 0, \frac{10}{469}\sqrt{65}e^{12}, \frac{10}{469}\sqrt{715}e^{13}, \frac{10}{469}\sqrt{1010}e^{23}, \frac{10}{469}\sqrt{235}e^{25}, \frac{30}{469}\sqrt{130}e^{16} + \frac{10}{469}\sqrt{355}e^{28} + \frac{10}{469}\sqrt{745}e^{34}$	$(\frac{15}{67}, -\frac{10}{469}, -\frac{135}{469}, \frac{30}{67}, \frac{95}{469}, -\frac{30}{469}, -\frac{145}{469}, \frac{85}{469}, \frac{75}{469}) + \frac{20}{469}\sqrt{510}e^1 \otimes e_7$	{1234589, 1468, 247, 345679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:78	$0, 0, 0, 0, \frac{3}{217}\sqrt{3066e^{12}}, \frac{3}{217}\sqrt{3738e^{13}}, \frac{72}{217}\sqrt{7e^{23}}, \frac{6}{217}\sqrt{231e^{25}},$ $\frac{12}{31}\sqrt{3e^{16}} + \frac{12}{217}\sqrt{21e^{28}} + \frac{3}{217}\sqrt{3066e^{34}}$	$(-\frac{6}{31}, \frac{3}{31}, \frac{15}{31}, -\frac{12}{31}, -\frac{3}{31}, \frac{9}{31}, \frac{18}{31}, 0, \frac{3}{31})$ $+ \frac{3}{217}\sqrt{7854e^3} \otimes e_4$	{1245678, 45}
9521:79	$0, 0, 0, 0, \frac{16}{1141}\sqrt{978e^{12}}, \frac{16}{1141}\sqrt{330e^{34}},$ $\frac{96}{1141}\sqrt{47e^{13}} + \frac{48}{1141}\sqrt{141e^{24}}, \frac{16}{1141}\sqrt{753e^{15}}, \frac{64}{1141}\sqrt{57e^{18}} + \frac{16}{1141}\sqrt{1401e^{36}}$	$(-\frac{128}{1141}, \frac{56}{163}, \frac{176}{1141}, -\frac{344}{1141}, \frac{264}{1141}, -\frac{24}{163}, \frac{48}{1141}, \frac{136}{1141}, \frac{8}{1141})$ $+ \frac{32}{1141}\sqrt{714e^2} \otimes e_9$	{123678, 134579}
9521:80	$0, 0, 0, 0, \frac{18}{823}\sqrt{665e^{12}}, \frac{36}{823}\sqrt{42e^{34}}, \frac{9}{823}\sqrt{3318e^{14}} + \frac{9}{823}\sqrt{3318e^{23}},$ $\frac{9}{823}\sqrt{1778e^{15}}, \frac{9}{823}\sqrt{3542e^{18}} + \frac{9}{823}\sqrt{1554e^{36}}$	$(-\frac{189}{823}, \frac{396}{823}, -\frac{252}{823}, \frac{333}{823}, \frac{207}{823}, \frac{81}{823}, \frac{144}{823}, \frac{18}{823}, -\frac{171}{823})$ $+ \frac{63}{823}\sqrt{194e^2} \otimes e_9$	{12368, 134579}
9521:83	$0, 0, 0, 0, -\frac{11}{676}\sqrt{1194e^{12}}, \frac{11}{676}\sqrt{590e^{13}}, \frac{11}{169}\sqrt{82e^{34}}, \frac{11}{338}\sqrt{26e^{15}},$ $\frac{33}{169}\sqrt{2e^{18}} + \frac{11}{676}\sqrt{1246e^{25}} + \frac{11}{676}\sqrt{642e^{36}}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338}\sqrt{590e^2} \otimes e_7$	{1356789, 145789, 378, 4678, 1356789, 145789, 378, 4678}
9521:83	$0, 0, 0, 0, \frac{11}{676}\sqrt{1194e^{12}}, \frac{11}{676}\sqrt{590e^{13}}, \frac{11}{169}\sqrt{82e^{34}}, \frac{11}{338}\sqrt{26e^{15}},$ $\frac{33}{169}\sqrt{2e^{18}} + \frac{11}{676}\sqrt{1246e^{25}} + \frac{11}{676}\sqrt{642e^{36}}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338}\sqrt{590e^2} \otimes e_7$	{1356789, 145789, 378, 4678, 1356789, 145789, 378, 4678}
9521:85	$0, 0, 0, 0, \frac{10}{119}\sqrt{51e^{12}}, \frac{1}{119}\sqrt{2010e^{13}}, \frac{10}{119}\sqrt{51e^{34}}, \frac{2}{119}\sqrt{435e^{25}},$ $\frac{2}{119}\sqrt{1635e^{15}} + \frac{2}{119}\sqrt{645e^{28}} + \frac{2}{119}\sqrt{645e^{36}}$	$(\frac{12}{119}, \frac{6}{119}, \frac{9}{119}, -\frac{6}{17}, \frac{18}{119}, \frac{3}{119}, -\frac{33}{119}, \frac{24}{119}, \frac{30}{119})$ $+ \frac{1}{119}\sqrt{9390e^1} \otimes e_7$	{378, 4678}
9521:85	$0, 0, 0, 0, \frac{126}{5587}\sqrt{187e^{12}}, \frac{3150}{5587}e^{13}, \frac{252}{5587}\sqrt{281e^{34}}, \frac{252}{5587}\sqrt{47e^{25}},$ $\frac{126}{5587}\sqrt{1015e^{15}} + \frac{126}{5587}\sqrt{515e^{28}} + \frac{63}{5587}\sqrt{186e^{36}}$	$(-\frac{252}{5587}, -\frac{126}{5587}, -\frac{189}{5587}, \frac{3339}{5587}, -\frac{378}{5587}, -\frac{441}{5587}, \frac{3150}{5587}, -\frac{504}{5587}, -\frac{630}{5587})$ $+ \frac{63}{5587}\sqrt{9370e^4} \otimes e_9$	{13456, 1457}
9521:85	$0, 0, 0, 0, \frac{98}{5063}\sqrt{570e^{12}}, \frac{49}{5063}\sqrt{7170e^{13}}, \frac{49}{5063}\sqrt{4094e^{34}},$ $\frac{49}{5063}\sqrt{2022e^{25}}, \frac{49}{5063}\sqrt{5010e^{15}} + \frac{539}{5063}\sqrt{6e^{28}} + \frac{98}{5063}\sqrt{1542e^{36}}$	$(\frac{588}{5063}, \frac{294}{5063}, \frac{441}{5063}, -\frac{1960}{5063}, \frac{882}{5063}, \frac{1029}{5063}, -\frac{1519}{5063}, \frac{1176}{5063}, \frac{1470}{5063})$ $+ \frac{49}{5063}\sqrt{9070e^3} \otimes e_4$	{12359, 124569}
9521:85	$0, 0, 0, 0, \frac{41}{5663}\sqrt{3282e^{12}}, \frac{82}{5663}\sqrt{530e^{13}}, \frac{82}{5663}\sqrt{1306e^{34}},$ $\frac{164}{5663}\sqrt{247e^{25}}, \frac{41}{5663}\sqrt{530e^{15}} + \frac{2460}{5663}e^{28} + \frac{41}{5663}\sqrt{2226e^{36}}$	$(\frac{492}{5663}, \frac{246}{5663}, \frac{369}{5663}, \frac{1804}{5663}, \frac{738}{5663}, \frac{123}{5663}, \frac{205}{809}, \frac{984}{5663}, \frac{1230}{5663})$ $+ \frac{41}{5663}\sqrt{9710e^2} \otimes e_7$	{1356789, 145789}
9521:92	$0, 0, 0, 0, \frac{38}{231}\sqrt{3e^{12}}, \frac{38}{693}\sqrt{107e^{34}}, \frac{19}{693}\sqrt{554e^{13}}, \frac{19}{693}\sqrt{122e^{15}},$ $\frac{19}{693}\sqrt{238e^{18}} + \frac{38}{693}\sqrt{113e^{23}} + \frac{38}{693}\sqrt{173e^{46}}$	$(-\frac{19}{231}, \frac{38}{99}, -\frac{19}{77}, \frac{19}{99}, \frac{19}{63}, -\frac{38}{693}, -\frac{76}{231}, \frac{152}{693}, \frac{95}{693})$ $+ \frac{19}{693}\sqrt{1198e^4} \otimes e_7$	{127, 235679}
9521:92	$0, 0, 0, 0, \frac{74}{3017}\sqrt{647e^{12}}, \frac{148}{3017}\sqrt{111e^{34}}, \frac{74}{3017}\sqrt{955e^{13}},$ $\frac{148}{3017}\sqrt{43e^{15}}, \frac{74}{3017}\sqrt{695e^{18}} + \frac{296}{3017}\sqrt{51e^{23}} + \frac{74}{3017}\sqrt{106e^{46}}$	$(-\frac{296}{3017}, \frac{222}{431}, -\frac{888}{3017}, \frac{111}{431}, \frac{1258}{3017}, -\frac{111}{3017}, -\frac{1184}{3017}, \frac{962}{3017}, \frac{666}{3017})$ $- \frac{74}{3017}\sqrt{2578e^2} \otimes e_7$	{123, 12346, 2459, 2569}
9521:92	$0, 0, 0, 0, \frac{74}{3017}\sqrt{647e^{12}}, \frac{148}{3017}\sqrt{111e^{34}}, \frac{74}{3017}\sqrt{955e^{13}},$ $\frac{148}{3017}\sqrt{43e^{15}}, \frac{74}{3017}\sqrt{695e^{18}} + \frac{296}{3017}\sqrt{51e^{23}} + \frac{74}{3017}\sqrt{106e^{46}}$	$(-\frac{296}{3017}, \frac{222}{431}, -\frac{888}{3017}, \frac{111}{431}, \frac{1258}{3017}, -\frac{111}{3017}, -\frac{1184}{3017}, \frac{962}{3017}, \frac{666}{3017})$ $+ \frac{74}{3017}\sqrt{2578e^2} \otimes e_7$	{123, 12346, 2459, 2569}
9521:93	$0, 0, 0, 0, \frac{2}{7}\sqrt{5e^{12}}, \frac{1}{7}\sqrt{10e^{34}}, \frac{1}{7}\sqrt{38e^{13}}, \frac{2}{7}\sqrt{3e^{15}},$ $\frac{1}{7}\sqrt{10e^{18}} + \frac{1}{7}\sqrt{34e^{24}} + \frac{2}{7}\sqrt{5e^{36}}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{2}{7}, 0, 0, \frac{1}{7})$ $+ \frac{2}{7}\sqrt{10e^4} \otimes e_7$	{167, 459}
9521:93	$0, 0, 0, 0, \frac{2}{23}\sqrt{10e^{12}}, \frac{2}{23}\sqrt{37e^{34}}, \frac{2}{23}\sqrt{59e^{13}}, \frac{1}{23}\sqrt{78e^{15}},$ $\frac{4}{23}\sqrt{6e^{18}} + \frac{2}{23}\sqrt{210e^{24}} + \frac{2}{23}\sqrt{29e^{36}}$	$(-\frac{2}{23}, \frac{6}{23}, \frac{3}{23}, -\frac{6}{23}, \frac{4}{23}, -\frac{3}{23}, \frac{1}{23}, \frac{2}{23}, 0)$ $+ \frac{2}{23}\sqrt{57e^2} \otimes e_7$	{167, 345679}
9521:94	$0, 0, 0, 0, \frac{13}{411}\sqrt{102e^{12}}, \frac{13}{137}\sqrt{2e^{34}}, \frac{26}{411}\sqrt{87e^{13}}, \frac{13}{411}\sqrt{274e^{25}},$ $\frac{13}{411}\sqrt{174e^{14}} + \frac{13}{137}\sqrt{38e^{28}} + \frac{26}{411}\sqrt{33e^{36}}$	$(-\frac{26}{137}, \frac{52}{411}, -\frac{13}{137}, \frac{52}{137}, -\frac{26}{411}, \frac{39}{137}, -\frac{39}{137}, \frac{26}{411}, \frac{26}{137})$ $+ \frac{13}{137}\sqrt{78e^2} \otimes e_7$	{1238, 145789}
9521:94	$0, 0, 0, 0, \frac{78}{529}\sqrt{14e^{12}}, \frac{26}{529}\sqrt{114e^{34}}, \frac{104}{529}\sqrt{15e^{13}}, \frac{13}{529}\sqrt{174e^{25}},$ $\frac{39}{529}\sqrt{94e^{14}} + \frac{26}{529}\sqrt{57e^{28}} + \frac{78}{529}\sqrt{14e^{36}}$	$(-\frac{130}{529}, \frac{104}{529}, -\frac{65}{529}, \frac{312}{529}, -\frac{26}{529}, \frac{247}{529}, -\frac{195}{529}, \frac{78}{529}, \frac{182}{529})$ $+ \frac{26}{529}\sqrt{663e^4} \otimes e_7$	{12579, 134}
9521:97	$0, 0, 0, 0, -\frac{4}{271}\sqrt{6e^{12}}, \frac{1}{271}\sqrt{642e^{13}}, \frac{3}{271}\sqrt{142e^{23}}, \frac{2}{271}\sqrt{273e^{15}},$ $\frac{3}{271}\sqrt{142e^{18}} + \frac{12}{271}\sqrt{7e^{25}} + \frac{1}{271}\sqrt{462e^{36}}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+ \frac{2}{271}\sqrt{366e^1} \otimes e_7$	{1234569, 123569, 2467, 267, 1234569, 123569, 2467, 267}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:97	$0, 0, 0, 0, \frac{4}{271}\sqrt{6}e^{12}, \frac{1}{271}\sqrt{642}e^{13}, \frac{3}{271}\sqrt{142}e^{23}, \frac{2}{271}\sqrt{273}e^{15},$ $\frac{3}{271}\sqrt{142}e^{18} + \frac{12}{271}\sqrt{7}e^{25} + \frac{1}{271}\sqrt{462}e^{36}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+\frac{2}{271}\sqrt{366}e^1 \otimes e_7$	{1234569, 123569, 2467, 267, 1234569, 123569, 2467, 267}
9521:97	$0, 0, 0, 0, -\frac{1}{29}\sqrt{87}e^{12}, \frac{1}{29}\sqrt{145}e^{13}, \frac{1}{29}\sqrt{290}e^{23}, \frac{2}{29}\sqrt{29}e^{15},$ $\frac{1}{29}\sqrt{174}e^{18} + \frac{1}{29}\sqrt{493}e^{25} + \frac{1}{29}\sqrt{435}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{4}{29}\sqrt{87}e^4 \otimes e_9$	{12379, 1269, 234567, 245, 12379, 1269, 234567, 245}
9521:97	$0, 0, 0, 0, \frac{1}{29}\sqrt{87}e^{12}, \frac{1}{29}\sqrt{145}e^{13}, \frac{1}{29}\sqrt{290}e^{23}, \frac{2}{29}\sqrt{29}e^{15},$ $\frac{1}{29}\sqrt{174}e^{18} + \frac{1}{29}\sqrt{493}e^{25} + \frac{1}{29}\sqrt{435}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{4}{29}\sqrt{87}e^4 \otimes e_9$	{12379, 1269, 234567, 245, 12379, 1269, 234567, 245}
9521:97	$0, 0, 0, 0, -\frac{13}{41}\sqrt{6}e^{12}, \frac{26}{205}\sqrt{2}e^{13}, \frac{13}{205}\sqrt{42}e^{23}, \frac{52}{205}\sqrt{2}e^{15},$ $\frac{13}{205}\sqrt{74}e^{18} + \frac{13}{205}\sqrt{166}e^{25} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{13456789, 14589, 3478, 468, 13456789, 14589, 3478, 468}
9521:97	$0, 0, 0, 0, \frac{13}{41}\sqrt{6}e^{12}, \frac{26}{205}\sqrt{2}e^{13}, \frac{13}{205}\sqrt{42}e^{23}, \frac{52}{205}\sqrt{2}e^{15},$ $\frac{13}{205}\sqrt{74}e^{18} + \frac{13}{205}\sqrt{166}e^{25} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{13456789, 14589, 3478, 468, 13456789, 14589, 3478, 468}
9521:97	$0, 0, 0, 0, -\frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{70}e^{23}, \frac{2}{7}\sqrt{7}e^{15},$ $\frac{1}{7}\sqrt{42}e^{18} + \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21}e^4 \otimes e_7$	{1234569, 12579, 234, 267, 1234569, 12579, 234, 267}
9521:97	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{70}e^{23}, \frac{2}{7}\sqrt{7}e^{15},$ $\frac{1}{7}\sqrt{42}e^{18} + \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21}e^4 \otimes e_7$	{1234569, 12579, 234, 267, 1234569, 12579, 234, 267}
9521:97	$0, 0, 0, 0, -\frac{26}{205}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{166}e^{13}, \frac{13}{205}\sqrt{42}e^{23}, \frac{52}{205}\sqrt{2}e^{15},$ $\frac{13}{205}\sqrt{74}e^{18} + \frac{26}{205}\sqrt{2}e^{25} + \frac{13}{41}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205}\sqrt{87}e^3 \otimes e_4$	{123589, 12456789, 2368, 2478, 123589, 12456789, 2368, 2478}
9521:97	$0, 0, 0, 0, \frac{26}{205}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{166}e^{13}, \frac{13}{205}\sqrt{42}e^{23}, \frac{52}{205}\sqrt{2}e^{15},$ $\frac{13}{205}\sqrt{74}e^{18} + \frac{26}{205}\sqrt{2}e^{25} + \frac{13}{41}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205}\sqrt{87}e^3 \otimes e_4$	{123589, 12456789, 2368, 2478, 123589, 12456789, 2368, 2478}
9521:99	$0, 0, 0, 0, \frac{141}{3061}\sqrt{138}e^{12}, \frac{47}{3061}\sqrt{426}e^{13}, \frac{47}{3061}e^{23}, \frac{47}{3061}\sqrt{2534}e^{25},$ $\frac{94}{3061}\sqrt{345}e^{15} + \frac{141}{3061}\sqrt{230}e^{28} + \frac{235}{3061}\sqrt{6}e^{36}$	$(\frac{376}{3061}, \frac{188}{3061}, \frac{282}{3061}, -\frac{2021}{3061}, \frac{564}{3061}, \frac{658}{3061}, \frac{470}{3061}, \frac{752}{3061}, \frac{940}{3061})$ $+\frac{517}{3061}\sqrt{42}e^2 \otimes e_4$	{134589, 1456789}
9521:99	$0, 0, 0, 0, \frac{2}{2419}\sqrt{474}e^{12}, \frac{1}{2419}\sqrt{2326}e^{13}, \frac{6}{2419}\sqrt{129}e^{23}, \frac{6}{2419}\sqrt{91}e^{25},$ $\frac{2}{2419}\sqrt{1319}e^{15} + \frac{12}{2419}\sqrt{22}e^{28} + \frac{2}{2419}\sqrt{555}e^{36}$	$(-\frac{4}{2419}, -\frac{2}{2419}, -\frac{3}{2419}, \frac{46}{2419}, -\frac{6}{2419}, -\frac{7}{2419}, -\frac{5}{2419}, -\frac{8}{2419}, -\frac{10}{2419})$ $+\frac{1}{2419}\sqrt{474}e^1 \otimes e_7$	{3478, 378}
9521:99	$0, 0, 0, 0, \frac{294}{2893}\sqrt{61}e^{12}, \frac{98}{2893}\sqrt{86}e^{13}, \frac{196}{2893}\sqrt{6}e^{23}, \frac{147}{2893}\sqrt{62}e^{25},$ $\frac{49}{2893}\sqrt{2462}e^{15} + \frac{147}{2893}\sqrt{138}e^{28} + \frac{588}{2893}e^{36}$	$(\frac{392}{2893}, \frac{196}{2893}, \frac{294}{2893}, -\frac{2009}{2893}, \frac{588}{2893}, \frac{686}{2893}, \frac{490}{2893}, \frac{784}{2893}, \frac{980}{2893})$ $+\frac{49}{2893}\sqrt{4902}e^1 \otimes e_4$	{2345689, 245789}
9521:100	$0, 0, 0, 0, -\frac{31}{1369}\sqrt{281}e^{12}, \frac{31}{1369}\sqrt{31}e^{13}, \frac{31}{1369}\sqrt{1126}e^{14},$ $\frac{310}{1369}\sqrt{5}e^{15}, \frac{62}{1369}\sqrt{43}e^{18} + \frac{31}{1369}\sqrt{829}e^{25} + \frac{31}{1369}\sqrt{579}e^{36}$	$(-\frac{31}{1369}, -\frac{62}{1369}, -\frac{62}{1369}, \frac{806}{1369}, -\frac{93}{1369}, -\frac{93}{1369}, \frac{775}{1369}, -\frac{124}{1369}, -\frac{155}{1369})$ $+\frac{31}{1369}\sqrt{2314}e^4 \otimes e_9$	{1234568, 12458, 2389, 2689, 1234568, 12458, 2389, 2689}
9521:100	$0, 0, 0, 0, \frac{31}{1369}\sqrt{281}e^{12}, \frac{31}{1369}\sqrt{31}e^{13}, \frac{31}{1369}\sqrt{1126}e^{14},$ $\frac{310}{1369}\sqrt{5}e^{15}, \frac{62}{1369}\sqrt{43}e^{18} + \frac{31}{1369}\sqrt{829}e^{25} + \frac{31}{1369}\sqrt{579}e^{36}$	$(-\frac{31}{1369}, -\frac{62}{1369}, -\frac{62}{1369}, \frac{806}{1369}, -\frac{93}{1369}, -\frac{93}{1369}, \frac{775}{1369}, -\frac{124}{1369}, -\frac{155}{1369})$ $+\frac{31}{1369}\sqrt{2314}e^4 \otimes e_9$	{1234568, 12458, 2389, 2689, 1234568, 12458, 2389, 2689}
9521:100	$0, 0, 0, 0, -\frac{69}{1301}\sqrt{89}e^{12}, \frac{23}{1301}\sqrt{69}e^{13}, \frac{23}{1301}\sqrt{1082}e^{14},$ $\frac{46}{1301}\sqrt{366}e^{15}, \frac{46}{1301}\sqrt{303}e^{18} + \frac{23}{1301}\sqrt{777}e^{25} + \frac{69}{1301}\sqrt{5}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+\frac{23}{1301}\sqrt{2302}e^1 \otimes e_4$	{1238, 1268, 2345689, 24589, 1238, 1268, 2345689, 24589}
9521:100	$0, 0, 0, 0, \frac{69}{1301}\sqrt{89}e^{12}, \frac{23}{1301}\sqrt{69}e^{13}, \frac{23}{1301}\sqrt{1082}e^{14},$ $\frac{46}{1301}\sqrt{366}e^{15}, \frac{46}{1301}\sqrt{303}e^{18} + \frac{23}{1301}\sqrt{777}e^{25} + \frac{69}{1301}\sqrt{5}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+\frac{23}{1301}\sqrt{2302}e^1 \otimes e_4$	{1238, 1268, 2345689, 24589, 1238, 1268, 2345689, 24589}
9521:102	$0, 0, 0, 0, \frac{80}{2887}\sqrt{6}e^{12}, \frac{80}{2887}\sqrt{30}e^{13}, \frac{40}{2887}\sqrt{1349}e^{14},$ $\frac{40}{2887}\sqrt{1397}e^{25}, \frac{80}{2887}\sqrt{326}e^{15} + \frac{40}{2887}\sqrt{1346}e^{28} + \frac{40}{2887}\sqrt{129}e^{36}$	$(\frac{240}{2887}, \frac{120}{2887}, \frac{180}{2887}, -\frac{920}{2887}, \frac{360}{2887}, \frac{420}{2887}, -\frac{680}{2887}, \frac{480}{2887}, \frac{600}{2887})$ $+\frac{40}{2887}\sqrt{2458}e^2 \otimes e_7$	{135789, 156789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:102	$0, 0, 0, 0, \frac{192}{949}\sqrt{6}e^{12}, \frac{512}{2847}e^{13}, \frac{64}{2847}\sqrt{1119}e^{14}, \frac{448}{2847}\sqrt{3}e^{25},$ $\frac{128}{2847}\sqrt{10}e^{15} + \frac{128}{2847}\sqrt{221}e^{28} + \frac{64}{2847}\sqrt{641}e^{36}$	$(-\frac{128}{2847}, -\frac{64}{2847}, -\frac{32}{949}, \frac{576}{949}, -\frac{64}{949}, -\frac{224}{2847}, \frac{1600}{2847}, -\frac{256}{2847}, -\frac{320}{2847})$ $+ \frac{64}{219}\sqrt{14}e^4 \otimes e_9$	{3589, 5689}
9521:102	$0, 0, 0, 0, \frac{52}{2443}\sqrt{1362}e^{12}, \frac{104}{2443}\sqrt{39}e^{13}, \frac{52}{2443}\sqrt{953}e^{14},$ $\frac{52}{2443}\sqrt{447}e^{25}, \frac{156}{2443}\sqrt{174}e^{15} + \frac{156}{2443}\sqrt{94}e^{28} + \frac{52}{2443}\sqrt{165}e^{36}$	$(\frac{312}{2443}, \frac{156}{2443}, \frac{234}{2443}, -\frac{1040}{2443}, \frac{468}{2443}, \frac{78}{2443}, -\frac{104}{349}, \frac{624}{2443}, \frac{780}{2443})$ $+ \frac{52}{2443}\sqrt{2218}e^1 \otimes e_4$	{2345689, 24589}
9521:102	$0, 0, 0, 0, \frac{7}{468}\sqrt{942}e^{12}, \frac{7}{468}\sqrt{1335}e^{13}, \frac{7}{468}\sqrt{1335}e^{14}, \frac{7}{234}\sqrt{165}e^{25},$ $\frac{7}{468}\sqrt{1590}e^{15} + \frac{7}{468}\sqrt{546}e^{28} + \frac{7}{234}\sqrt{321}e^{36}$	$(\frac{7}{78}, \frac{7}{156}, \frac{7}{104}, -\frac{35}{104}, \frac{7}{52}, \frac{49}{312}, -\frac{77}{312}, \frac{7}{39}, \frac{35}{156})$ $+ \frac{7}{468}\sqrt{2418}e^3 \otimes e_7$	{123459, 125679}
9521:103	$0, 0, 0, 0, -\frac{11}{676}\sqrt{642}e^{12}, \frac{11}{676}\sqrt{1246}e^{13}, \frac{11}{169}\sqrt{82}e^{24}, \frac{11}{338}\sqrt{26}e^{15},$ $\frac{33}{169}\sqrt{2}e^{18} + \frac{11}{676}\sqrt{590}e^{25} + \frac{11}{676}\sqrt{1194}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338}\sqrt{590}e^3 \otimes e_7$	{1234589, 1256789, 23468, 278, 1234589, 1256789, 23468, 278}
9521:103	$0, 0, 0, 0, \frac{11}{676}\sqrt{642}e^{12}, \frac{11}{676}\sqrt{1246}e^{13}, \frac{11}{169}\sqrt{82}e^{24}, \frac{11}{338}\sqrt{26}e^{15},$ $\frac{33}{169}\sqrt{2}e^{18} + \frac{11}{676}\sqrt{590}e^{25} + \frac{11}{676}\sqrt{1194}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338}\sqrt{590}e^3 \otimes e_7$	{1234589, 1256789, 23468, 278, 1234589, 1256789, 23468, 278}
9521:105	$0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{46}{2629}\sqrt{1091}e^{24},$ $\frac{138}{2629}\sqrt{170}e^{25}, \frac{46}{2629}\sqrt{870}e^{15} + \frac{138}{2629}\sqrt{143}e^{28} + \frac{276}{2629}e^{36}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{920}{2629}, \frac{414}{2629}, \frac{483}{2629}, -\frac{782}{2629}, \frac{552}{2629}, \frac{690}{2629})$ $+ \frac{184}{2629}\sqrt{145}e^2 \otimes e_4$	{1238, 1268}
9521:105	$0, 0, 0, 0, \frac{62}{2741}\sqrt{263}e^{12}, \frac{62}{2741}\sqrt{62}e^{13}, \frac{62}{2741}\sqrt{1129}e^{24},$ $\frac{62}{2741}\sqrt{526}e^{25}, \frac{62}{2741}\sqrt{870}e^{15} + \frac{62}{2741}\sqrt{143}e^{28} + \frac{1488}{2741}e^{36}$	$(-\frac{124}{2741}, -\frac{62}{2741}, -\frac{93}{2741}, \frac{1612}{2741}, -\frac{186}{2741}, -\frac{217}{2741}, \frac{1550}{2741}, -\frac{248}{2741}, -\frac{310}{2741})$ $+ \frac{248}{2741}\sqrt{145}e^4 \otimes e_9$	{1234568, 12458}
9521:105	$0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{46}{2629}\sqrt{1229}e^{24},$ $\frac{46}{2629}\sqrt{790}e^{25}, \frac{230}{2629}\sqrt{58}e^{15} + \frac{46}{2629}\sqrt{1033}e^{28} + \frac{276}{2629}e^{36}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{920}{2629}, \frac{414}{2629}, \frac{483}{2629}, -\frac{782}{2629}, \frac{552}{2629}, \frac{690}{2629})$ $+ \frac{184}{2629}\sqrt{145}e^1 \otimes e_7$	{2356789, 25789}
9521:105	$0, 0, 0, 0, \frac{11}{676}\sqrt{642}e^{12}, \frac{11}{169}\sqrt{82}e^{13}, \frac{11}{676}\sqrt{1246}e^{24}, \frac{11}{338}\sqrt{26}e^{25},$ $\frac{11}{676}\sqrt{590}e^{15} + \frac{33}{169}\sqrt{2}e^{28} + \frac{11}{676}\sqrt{1194}e^{36}$	$(\frac{33}{338}, \frac{33}{676}, \frac{99}{1352}, -\frac{451}{338}, \frac{99}{676}, \frac{231}{1352}, -\frac{385}{1352}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338}\sqrt{590}e^3 \otimes e_7$	{1234589, 1256789}
9521:106	$0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{1}{6}\sqrt{2}e^{13}, \frac{1}{3}e^{23}, \frac{1}{6}\sqrt{5}e^{15},$ $\frac{1}{2}\sqrt{2}e^{18} + \frac{1}{6}\sqrt{17}e^{27} + \frac{1}{6}\sqrt{11}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{6}\sqrt{59}e^4 \otimes e_9$	{148, 35789}
9521:106	$0, 0, 0, 0, \frac{31}{1297}\sqrt{798}e^{12}, \frac{31}{1297}\sqrt{215}e^{13}, \frac{62}{1297}\sqrt{61}e^{23},$ $\frac{31}{1297}\sqrt{793}e^{15}, \frac{31}{1297}\sqrt{602}e^{18} + \frac{31}{1297}\sqrt{373}e^{27} + \frac{62}{1297}\sqrt{37}e^{36}$	$(\frac{93}{1297}, \frac{124}{1297}, \frac{155}{1297}, -\frac{868}{1297}, \frac{217}{1297}, \frac{248}{1297}, \frac{279}{1297}, \frac{310}{1297}, \frac{403}{1297})$ $+ \frac{31}{1297}\sqrt{2165}e^1 \otimes e_4$	{1359, 47}
9521:106	$0, 0, 0, 0, \frac{441}{5077}\sqrt{26}e^{12}, \frac{63}{5077}\sqrt{1754}e^{13}, \frac{126}{5077}\sqrt{1066}e^{23},$ $\frac{63}{5077}\sqrt{1122}e^{15}, \frac{63}{5077}\sqrt{214}e^{18} + \frac{126}{5077}\sqrt{902}e^{27} + \frac{63}{5077}\sqrt{2158}e^{36}$	$(\frac{378}{5077}, \frac{504}{5077}, \frac{630}{5077}, -\frac{3465}{5077}, \frac{882}{5077}, \frac{1008}{5077}, \frac{1134}{5077}, \frac{1260}{5077}, \frac{1638}{5077})$ $+ \frac{63}{5077}\sqrt{8542}e^2 \otimes e_4$	{1345679, 46}
9521:106	$0, 0, 0, 0, \frac{32}{621}\sqrt{37}e^{12}, \frac{32}{621}\sqrt{258}e^{13}, \frac{16}{207}\sqrt{26}e^{23}, \frac{16}{621}\sqrt{218}e^{15},$ $\frac{64}{621}\sqrt{30}e^{18} + \frac{32}{207}e^{27} + \frac{16}{621}\sqrt{898}e^{36}$	$(\frac{16}{207}, \frac{64}{621}, \frac{80}{621}, -\frac{16}{23}, \frac{112}{621}, \frac{128}{621}, \frac{16}{69}, \frac{160}{621}, \frac{208}{621})$ $+ \frac{16}{69}\sqrt{26}e^3 \otimes e_4$	{123589, 2478}
9521:108	$0, 0, 0, 0, \frac{19}{409}\sqrt{93}e^{12}, \frac{19}{818}\sqrt{494}e^{13}, \frac{19}{409}\sqrt{19}e^{34}, \frac{19}{818}\sqrt{926}e^{15},$ $\frac{19}{409}\sqrt{290}e^{18} + \frac{19}{409}\sqrt{46}e^{36} + \frac{19}{818}\sqrt{146}e^{47}$	$(\frac{133}{409}, -\frac{228}{409}, \frac{19}{409}, \frac{76}{409}, -\frac{95}{409}, \frac{152}{409}, \frac{95}{409}, \frac{38}{409}, \frac{171}{409})$ $+ \frac{19}{818}\sqrt{2734}e^1 \otimes e_2$	{1348, 1378}
9521:108	$0, 0, 0, 0, \frac{9}{218}\sqrt{74}e^{12}, \frac{27}{218}\sqrt{14}e^{13}, \frac{27}{109}e^{34}, \frac{9}{218}\sqrt{95}e^{15},$ $\frac{9}{218}\sqrt{110}e^{18} + \frac{9}{218}\sqrt{177}e^{36} + \frac{9}{218}\sqrt{195}e^{47}$	$(-\frac{27}{109}, \frac{72}{109}, \frac{9}{109}, -\frac{9}{109}, \frac{45}{109}, -\frac{18}{109}, 0, \frac{18}{109}, -\frac{9}{109})$ $+ \frac{9}{218}\sqrt{713}e^2 \otimes e_9$	{12478, 128}
9521:117	$0, 0, 0, 0, \frac{4}{35}\sqrt{5}e^{12}, \frac{1}{35}\sqrt{86}e^{34}, \frac{4}{35}\sqrt{17}e^{13}, \frac{4}{35}\sqrt{11}e^{15},$ $\frac{9}{35}\sqrt{2}e^{18} + \frac{1}{35}\sqrt{30}e^{25} + \frac{1}{35}\sqrt{122}e^{36}$	$(0, 0, -\frac{1}{7}, \frac{2}{7}, 0, \frac{1}{7}, -\frac{1}{7}, 0, 0)$ $+ \frac{4}{35}\sqrt{21}e^2 \otimes e_7$	{145789, 378}
9521:117	$0, 0, 0, 0, \frac{584}{4951}\sqrt{2}e^{12}, \frac{73}{4951}\sqrt{670}e^{34}, \frac{146}{4951}\sqrt{890}e^{13},$ $\frac{146}{4951}\sqrt{210}e^{15}, \frac{73}{4951}\sqrt{1626}e^{18} + \frac{73}{4951}\sqrt{510}e^{25} + \frac{73}{4951}\sqrt{2486}e^{36}$	$(\frac{292}{4951}, \frac{584}{4951}, \frac{2263}{4951}, -\frac{3066}{4951}, \frac{876}{4951}, -\frac{803}{4951}, \frac{2555}{4951}, \frac{1168}{4951}, \frac{1460}{4951})$ $+ \frac{876}{4951}\sqrt{58}e^3 \otimes e_4$	{147, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9521:117	$0, 0, 0, 0, \frac{74}{1261}\sqrt{29}e^{12}, \frac{74}{1261}\sqrt{131}e^{34}, \frac{185}{1261}\sqrt{38}e^{13},$ $\frac{111}{1261}\sqrt{34}e^{15}, \frac{37}{1261}\sqrt{186}e^{18} + \frac{296}{1261}\sqrt{6}e^{25} + \frac{74}{1261}\sqrt{61}e^{36}$	$(\frac{37}{1261}, \frac{74}{1261}, -\frac{407}{1261}, \frac{999}{1261}, \frac{111}{1261}, \frac{592}{1261}, -\frac{370}{1261}, \frac{148}{1261}, \frac{185}{1261})$ $+ \frac{333}{1261}\sqrt{26}e^4 \otimes e_7$	{134, 35679}
9521:118	$0, 0, 0, 0, \frac{38}{349}\sqrt{17}e^{12}, \frac{95}{349}\sqrt{2}e^{34}, \frac{19}{349}\sqrt{265}e^{13}, \frac{19}{349}\sqrt{91}e^{25},$ $\frac{19}{349}\sqrt{158}e^{15} + \frac{57}{349}\sqrt{6}e^{28} + \frac{19}{349}\sqrt{179}e^{36}$	$(\frac{38}{349}, \frac{19}{349}, \frac{152}{349}, -\frac{209}{349}, \frac{57}{349}, -\frac{57}{349}, \frac{190}{349}, \frac{76}{349}, \frac{95}{349})$ $+ \frac{19}{349}\sqrt{583}e^3 \otimes e_4$	{12359, 147}
9521:118	$0, 0, 0, 0, \frac{195}{1429}\sqrt{14}e^{12}, \frac{78}{1429}\sqrt{149}e^{34}, \frac{39}{1429}\sqrt{1070}e^{13},$ $\frac{78}{1429}\sqrt{73}e^{25}, \frac{78}{1429}\sqrt{93}e^{15} + \frac{858}{1429}e^{28} + \frac{39}{1429}\sqrt{226}e^{36}$	$(\frac{78}{1429}, \frac{39}{1429}, -\frac{468}{1429}, \frac{1131}{1429}, \frac{117}{1429}, \frac{663}{1429}, -\frac{390}{1429}, \frac{156}{1429}, \frac{195}{1429})$ $+ \frac{39}{1429}\sqrt{2354}e^4 \otimes e_7$	{12579, 134}
9521:118	$0, 0, 0, 0, \frac{2}{49}\sqrt{14}e^{12}, \frac{3}{49}\sqrt{14}e^{34}, \frac{8}{49}\sqrt{7}e^{13}, \frac{4}{49}\sqrt{21}e^{25},$ $\frac{1}{49}\sqrt{322}e^{15} + \frac{1}{49}\sqrt{406}e^{28} + \frac{1}{49}\sqrt{154}e^{36}$	$(0, 0, -\frac{1}{7}, \frac{2}{7}, 0, \frac{1}{7}, -\frac{1}{7}, 0, 0)$ $+ \frac{2}{49}\sqrt{154}e^2 \otimes e_7$	{1234569, 167}
9521:119	$0, 0, 0, 0, \frac{138}{6613}\sqrt{11}e^{12}, \frac{138}{6613}\sqrt{718}e^{34}, \frac{69}{6613}\sqrt{4610}e^{13},$ $\frac{69}{6613}\sqrt{878}e^{15}, \frac{69}{6613}\sqrt{2642}e^{18} + \frac{138}{6613}\sqrt{31}e^{25} + \frac{552}{6613}\sqrt{82}e^{46}$	$(\frac{483}{6613}, \frac{966}{6613}, -\frac{2691}{6613}, \frac{2553}{6613}, \frac{1449}{6613}, -\frac{138}{6613}, -\frac{2208}{6613}, \frac{1932}{6613}, \frac{2415}{6613})$ $+ \frac{69}{6613}\sqrt{11126}e^4 \otimes e_7$	{134589, 468}
9521:120	$0, 0, 0, 0, \frac{136}{3461}\sqrt{73}e^{12}, \frac{136}{3461}\sqrt{178}e^{34}, \frac{340}{3461}\sqrt{53}e^{13},$ $\frac{68}{3461}\sqrt{503}e^{25}, \frac{68}{3461}\sqrt{934}e^{15} + \frac{204}{3461}\sqrt{14}e^{28} + \frac{68}{3461}\sqrt{1423}e^{46}$	$(\frac{476}{3461}, \frac{238}{3461}, -\frac{1462}{3461}, \frac{1326}{3461}, \frac{714}{3461}, -\frac{136}{3461}, -\frac{986}{3461}, \frac{952}{3461}, \frac{1190}{3461})$ $+ \frac{68}{3461}\sqrt{2886}e^4 \otimes e_7$	{123459, 17}
9521:124	$0, 0, 0, 0, \frac{19}{433}\sqrt{130}e^{12}, -\frac{19}{433}\sqrt{133}e^{13}, \frac{19}{433}\sqrt{133}e^{14}, \frac{190}{433}\sqrt{2}e^{15},$ $\frac{38}{433}\sqrt{66}e^{18} + \frac{19}{433}\sqrt{31}e^{36} + \frac{19}{433}\sqrt{31}e^{47}$	$(\frac{133}{433}, -\frac{228}{433}, \frac{19}{433}, \frac{19}{433}, -\frac{95}{433}, \frac{152}{433}, \frac{152}{433}, \frac{38}{433}, \frac{171}{433})$ $+ \frac{209}{433}\sqrt{6}e^1 \otimes e_2$	{1348, 1378, 1678, 1348, 1378, 1678}
9521:124	$0, 0, 0, 0, \frac{19}{433}\sqrt{130}e^{12}, \frac{19}{433}\sqrt{133}e^{13}, \frac{19}{433}\sqrt{133}e^{14}, \frac{190}{433}\sqrt{2}e^{15},$ $\frac{38}{433}\sqrt{66}e^{18} + \frac{19}{433}\sqrt{31}e^{36} + \frac{19}{433}\sqrt{31}e^{47}$	$(\frac{133}{433}, -\frac{228}{433}, \frac{19}{433}, \frac{19}{433}, -\frac{95}{433}, \frac{152}{433}, \frac{152}{433}, \frac{38}{433}, \frac{171}{433})$ $+ \frac{209}{433}\sqrt{6}e^1 \otimes e_2$	{1348, 1378, 1678, 1348, 1378, 1678}
9521:124	$0, 0, 0, 0, \frac{9}{113}\sqrt{82}e^{12}, -\frac{27}{113}\sqrt{3}e^{13}, \frac{27}{113}\sqrt{3}e^{14}, \frac{9}{113}\sqrt{31}e^{15},$ $\frac{9}{113}\sqrt{34}e^{18} + \frac{36}{113}\sqrt{3}e^{36} + \frac{36}{113}\sqrt{3}e^{47}$	$(-\frac{27}{113}, \frac{72}{113}, \frac{9}{113}, \frac{9}{113}, \frac{45}{113}, \frac{18}{113}, -\frac{18}{113}, \frac{18}{113}, -\frac{9}{113})$ $+ \frac{9}{113}\sqrt{187}e^2 \otimes e_9$	{1234678, 12368, 128, 1234678, 12368, 128}
9521:124	$0, 0, 0, 0, \frac{9}{113}\sqrt{82}e^{12}, \frac{27}{113}\sqrt{3}e^{13}, \frac{27}{113}\sqrt{3}e^{14}, \frac{9}{113}\sqrt{31}e^{15},$ $\frac{9}{113}\sqrt{34}e^{18} + \frac{36}{113}\sqrt{3}e^{36} + \frac{36}{113}\sqrt{3}e^{47}$	$(-\frac{27}{113}, \frac{72}{113}, \frac{9}{113}, \frac{9}{113}, \frac{45}{113}, -\frac{18}{113}, -\frac{18}{113}, \frac{18}{113}, -\frac{9}{113})$ $+ \frac{9}{113}\sqrt{187}e^2 \otimes e_9$	{1234678, 12368, 128, 1234678, 12368, 128}
9521:145	$0, 0, 0, 0, \frac{44}{987}\sqrt{262}e^{12}, \frac{44}{987}\sqrt{209}e^{13}, \frac{44}{987}\sqrt{101}e^{14}, \frac{88}{987}\sqrt{14}e^{25},$ $\frac{44}{987}\sqrt{199}e^{17} + \frac{44}{987}\sqrt{106}e^{28} + \frac{220}{987}e^{36}$	$(\frac{418}{987}, -\frac{44}{987}, -\frac{22}{329}, -\frac{550}{987}, \frac{374}{987}, \frac{352}{987}, -\frac{44}{329}, \frac{110}{329}, \frac{286}{987})$ $- \frac{44}{329}\sqrt{91}e^1 \otimes e_4$	{12389, 12689, 23456, 245}
9521:145	$0, 0, 0, 0, \frac{44}{987}\sqrt{262}e^{12}, \frac{44}{987}\sqrt{209}e^{13}, \frac{44}{987}\sqrt{101}e^{14}, \frac{88}{987}\sqrt{14}e^{25},$ $\frac{44}{987}\sqrt{199}e^{17} + \frac{44}{987}\sqrt{106}e^{28} + \frac{220}{987}e^{36}$	$(\frac{418}{987}, -\frac{44}{987}, -\frac{22}{329}, -\frac{550}{987}, \frac{374}{987}, \frac{352}{987}, -\frac{44}{329}, \frac{110}{329}, \frac{286}{987})$ $+ \frac{44}{329}\sqrt{91}e^1 \otimes e_4$	{12389, 12689, 23456, 245}
9521:146	$0, 0, 0, 0, \frac{88}{3591}\sqrt{1118}e^{12}, \frac{176}{3591}\sqrt{22}e^{13}, \frac{1144}{3591}e^{24}, \frac{88}{3591}\sqrt{233}e^{15},$ $\frac{176}{3591}\sqrt{119}e^{18} + \frac{88}{3591}\sqrt{970}e^{27} + \frac{88}{3591}\sqrt{39}e^{36}$	$(-\frac{176}{3591}, \frac{88}{189}, \frac{220}{1197}, -\frac{2200}{3591}, \frac{1496}{3591}, \frac{484}{3591}, -\frac{176}{1197}, \frac{440}{1197}, \frac{1144}{3591})$ $+ \frac{176}{3591}\sqrt{745}e^2 \otimes e_4$	{13456, 145}
964:1	$0, 0, 0, \frac{1}{773}\sqrt{254}e^{12}, \frac{1}{773}\sqrt{254}e^{13}, \frac{1}{773}\sqrt{170}e^{14}, \frac{2}{773}\sqrt{143}e^{24},$ $\frac{1}{773}\sqrt{170}e^{15}, \frac{2}{773}\sqrt{143}e^{35}$	$(-\frac{11}{773}, \frac{10}{773}, \frac{10}{773}, -\frac{1}{773}, -\frac{1}{773}, -\frac{12}{773}, \frac{9}{773}, -\frac{12}{773}, \frac{9}{773})$ $+ \frac{10}{773}\sqrt{7}e^2 \otimes e_9 + \frac{10}{773}\sqrt{7}e^3 \otimes e_7$	{1456789, 2345}
964:1	$0, 0, 0, \frac{31}{6383}\sqrt{66}e^{12}, \frac{62}{6383}\sqrt{946}e^{13}, \frac{62}{6383}\sqrt{890}e^{14}, \frac{31}{6383}\sqrt{5442}e^{24},$ $\frac{31}{6383}\sqrt{2782}e^{15}, \frac{124}{6383}\sqrt{103}e^{35}$	$(-\frac{62}{491}, \frac{496}{6383}, \frac{1147}{6383}, -\frac{310}{6383}, \frac{341}{6383}, \frac{1116}{6383}, \frac{186}{6383}, -\frac{465}{6383}, \frac{1488}{6383})$ $+ \frac{31}{6383}\sqrt{6398}e^3 \otimes e_7 + \frac{372}{6383}\sqrt{35}e^2 \otimes e_8$	{1389, 267}
964:1	$0, 0, 0, \frac{30}{397}\sqrt{22}e^{12}, \frac{30}{397}\sqrt{22}e^{13}, \frac{10}{397}\sqrt{110}e^{14}, \frac{20}{397}\sqrt{66}e^{24},$ $\frac{10}{397}\sqrt{110}e^{15}, \frac{20}{397}\sqrt{66}e^{35}$	$(-\frac{100}{397}, \frac{110}{397}, \frac{110}{397}, \frac{10}{397}, \frac{10}{397}, -\frac{90}{397}, \frac{120}{397}, -\frac{90}{397}, \frac{120}{397})$ $+ \frac{70}{397}\sqrt{14}e^2 \otimes e_8 - \frac{70}{397}\sqrt{14}e^3 \otimes e_6$	{125679, 246}
964:1	$0, 0, 0, \frac{12}{2861}\sqrt{15142}e^{12}, \frac{6}{2861}\sqrt{21809}e^{13}, \frac{6}{2861}\sqrt{74015}e^{14},$ $\frac{12}{2861}\sqrt{33109}e^{24}, \frac{60}{2861}\sqrt{29945}e^{15}, \frac{60}{2861}\sqrt{226}e^{35}$	$(-\frac{674}{2861}, \frac{1153}{2861}, \frac{467}{2861}, \frac{479}{2861}, -\frac{207}{2861}, -\frac{195}{2861}, \frac{1632}{2861}, -\frac{881}{2861}, \frac{260}{2861})$ $+ \frac{294}{2861}\sqrt{113}e^2 \otimes e_8$	{1257, 134678, 249, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
964:1	$0, 0, 0, \frac{4}{289}\sqrt{2431}e^{12}, \frac{13}{289}\sqrt{66}e^{13}, \frac{5}{289}\sqrt{286}e^{14}, \frac{44}{289}\sqrt{13}e^{24},$ $\frac{4}{289}\sqrt{1430}e^{15}, \frac{1}{289}\sqrt{35178}e^{35}$	$(\frac{2}{289}, \frac{65}{289}, -\frac{40}{289}, \frac{67}{289}, -\frac{38}{289}, \frac{69}{289}, \frac{132}{289}, -\frac{36}{289}, -\frac{78}{289})$ $+\frac{7}{289}\sqrt{1430}e^2 \otimes e_9$	{1235678, 1267, 389, 59}
964:1	$0, 0, 0, \frac{30}{397}\sqrt{22}e^{12}, \frac{30}{397}\sqrt{22}e^{13}, \frac{10}{397}\sqrt{110}e^{14}, \frac{20}{397}\sqrt{66}e^{24},$ $\frac{10}{397}\sqrt{110}e^{15}, \frac{20}{397}\sqrt{66}e^{35}$	$(-\frac{100}{397}, \frac{110}{397}, \frac{110}{397}, \frac{10}{397}, \frac{10}{397}, -\frac{90}{397}, \frac{120}{397}, -\frac{90}{397}, \frac{120}{397})$ $+\frac{70}{397}\sqrt{14}e^2 \otimes e_8 + \frac{70}{397}\sqrt{14}e^3 \otimes e_6$	{125679, 246}
964:2	$0, 0, 0, \frac{13}{179}\sqrt{6}e^{12}, \frac{26}{1253}\sqrt{78}e^{13}, \frac{13}{1253}\sqrt{4530}e^{14}, \frac{117}{1253}\sqrt{30}e^{24},$ $\frac{13}{1253}\sqrt{2406}e^{35}, \frac{39}{1253}\sqrt{370}e^{15} + \frac{143}{1253}\sqrt{30}e^{23}$	$(-\frac{52}{1253}, -\frac{104}{1253}, \frac{299}{1253}, -\frac{156}{1253}, \frac{247}{1253}, -\frac{208}{1253}, -\frac{260}{1253}, \frac{78}{179}, \frac{195}{1253})$ $+\frac{26}{1253}\sqrt{1662}e^3 \otimes e_6$	{13459, 3789}
964:2	$0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{2}{23}\sqrt{66}e^{13}, \frac{1}{23}\sqrt{165}e^{14}, \frac{11}{23}\sqrt{2}e^{24},$ $\frac{1}{23}\sqrt{165}e^{35}, \frac{1}{23}\sqrt{66}e^{15} + \frac{1}{23}\sqrt{55}e^{23}$	$(-\frac{1}{23}, -\frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, \frac{5}{23}, -\frac{4}{23}, -\frac{5}{23}, \frac{11}{23}, \frac{4}{23})$ $+\frac{1}{23}\sqrt{429}e^3 \otimes e_7$	{1234689, 267}
964:2	$0, 0, 0, \frac{387}{3997}\sqrt{46}e^{12}, \frac{129}{3997}\sqrt{186}e^{13}, \frac{129}{3997}\sqrt{138}e^{14},$ $\frac{86}{3997}\sqrt{461}e^{24}, \frac{516}{3997}\sqrt{22}e^{35}, \frac{43}{3997}\sqrt{2730}e^{15} + \frac{86}{3997}\sqrt{305}e^{23}$	$(\frac{43}{571}, \frac{86}{571}, -\frac{774}{3997}, \frac{129}{571}, -\frac{473}{3997}, \frac{172}{571}, \frac{215}{571}, -\frac{1247}{3997}, -\frac{172}{3997})$ $+\frac{86}{3997}\sqrt{1707}e^2 \otimes e_8$	{389, 58}
953:1	$0, 0, 0, 0, \frac{1}{19}\sqrt{138}e^{12}, \frac{1}{19}\sqrt{138}e^{13}, \frac{3}{19}\sqrt{46}e^{15}, \frac{2}{19}\sqrt{23}e^{25},$ $\frac{1}{19}\sqrt{138}e^{16}$	$(-\frac{3}{19}, \frac{2}{19}, \frac{6}{19}, 1, -\frac{1}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{1}{19}, 0)$ $+\frac{4}{19}\sqrt{46}e^4 \otimes e_7$	{123679, 127, 134569, 145, 235789, 25678, 3489, 468}
953:1	$0, 0, 0, 0, \frac{36}{3169}\sqrt{826}e^{12}, \frac{2}{3169}\sqrt{150745}e^{13}, \frac{118}{3169}\sqrt{7}e^{15},$ $\frac{4}{3169}\sqrt{65667}e^{25}, \frac{4}{3169}\sqrt{88795}e^{16}$	$(-\frac{130}{3169}, \frac{565}{3169}, -\frac{1}{3169}, -\frac{956}{3169}, \frac{435}{3169}, -\frac{131}{3169}, \frac{305}{3169}, \frac{1000}{3169}, -\frac{261}{3169})$ $+\frac{4}{3169}\sqrt{136290}e^1 \otimes e_4 + \frac{6}{3169}\sqrt{68145}e^2 \otimes e_9$	{1268, 135789, 245, 34679}
953:1	$0, 0, 0, 0, \frac{4}{3729}\sqrt{61079}e^{12}, \frac{6}{1243}\sqrt{1779}e^{13}, \frac{2}{3729}\sqrt{446529}e^{15},$ $\frac{2}{1243}\sqrt{98438}e^{25}, \frac{2}{3729}\sqrt{539630}e^{16}$	$(-\frac{424}{3729}, \frac{161}{1243}, \frac{145}{3729}, \frac{576}{1243}, \frac{59}{3729}, -\frac{93}{1243}, -\frac{365}{3729}, \frac{542}{3729}, -\frac{703}{3729})$ $+\frac{2}{3729}\sqrt{1186593}e^2 \otimes e_9 + \frac{4}{3729}\sqrt{198655}e^4 \otimes e_8$	{1268, 135789, 245, 34679}
953:1	$0, 0, 0, 0, \frac{1}{173}\sqrt{4690}e^{12}, \frac{20}{519}\sqrt{201}e^{13}, \frac{8}{519}\sqrt{1005}e^{15}, \frac{1}{173}\sqrt{7370}e^{25},$ $\frac{1}{519}\sqrt{67134}e^{16}$	$(-\frac{50}{519}, -\frac{8}{519}, \frac{45}{173}, \frac{236}{519}, -\frac{58}{519}, \frac{85}{173}, -\frac{36}{173}, -\frac{22}{173}, \frac{35}{519})$ $+\frac{1}{519}\sqrt{113766}e^3 \otimes e_8 + \frac{4}{519}\sqrt{4623}e^4 \otimes e_9$	{123579, 139, 2478, 458}
953:1	$0, 0, 0, 0, \frac{3}{1307}\sqrt{2730}e^{12}, \frac{1}{1307}\sqrt{443170}e^{13}, \frac{1}{1307}\sqrt{115570}e^{15},$ $\frac{10}{1307}\sqrt{2730}e^{25}, \frac{140}{1307}\sqrt{13}e^{16}$	$(\frac{73}{1307}, -\frac{121}{1307}, \frac{286}{1307}, -\frac{382}{1307}, -\frac{48}{1307}, \frac{359}{1307}, \frac{25}{1307}, -\frac{169}{1307}, \frac{432}{1307})$ $+\frac{2}{1307}\sqrt{121485}e^1 \otimes e_4 + \frac{3}{1307}\sqrt{62790}e^3 \otimes e_8$	{123579, 139, 2478, 458}
953:1	$0, 0, 0, 0, \frac{24}{311}\sqrt{10}e^{12}, \frac{8}{311}\sqrt{282}e^{13}, \frac{8}{311}\sqrt{303}e^{15}, \frac{20}{311}\sqrt{66}e^{25},$ $\frac{12}{311}\sqrt{170}e^{16}$	$(-\frac{63}{311}, \frac{96}{311}, \frac{78}{311}, -\frac{66}{311}, \frac{33}{311}, \frac{15}{311}, -\frac{30}{311}, \frac{129}{311}, -\frac{48}{311})$ $+\frac{4}{311}\sqrt{3066}e^2 \otimes e_9 + \frac{8}{311}\sqrt{465}e^3 \otimes e_4$	{12468, 135789, 245, 3679}
953:1	$0, 0, 0, 0, \frac{3}{1411}\sqrt{36498}e^{12}, \frac{3}{1411}\sqrt{16906}e^{13}, \frac{3}{1411}\sqrt{38078}e^{15},$ $\frac{6}{1411}\sqrt{1185}e^{25}, \frac{3}{1411}\sqrt{49454}e^{16}$	$(\frac{13}{83}, -\frac{50}{1411}, -\frac{490}{1411}, \frac{39}{83}, \frac{171}{1411}, -\frac{269}{1411}, \frac{392}{1411}, \frac{121}{1411}, -\frac{48}{1411})$ $+\frac{6}{1411}\sqrt{29546}e^1 \otimes e_3 + \frac{96}{1411}\sqrt{79}e^4 \otimes e_9$	{1279, 159, 234578, 348}
953:1	$0, 0, 0, 0, \frac{8}{2071}\sqrt{14430}e^{12}, \frac{24}{2071}\sqrt{222}e^{13}, \frac{48}{2071}\sqrt{37}e^{15},$ $\frac{40}{2071}\sqrt{703}e^{25}, \frac{8}{2071}\sqrt{12765}e^{16}$	$(-\frac{453}{2071}, \frac{596}{2071}, \frac{318}{2071}, \frac{46}{109}, \frac{143}{2071}, -\frac{135}{2071}, -\frac{310}{2071}, \frac{739}{2071}, -\frac{588}{2071})$ $+\frac{24}{2071}\sqrt{4921}e^2 \otimes e_9 + \frac{8}{2071}\sqrt{22570}e^4 \otimes e_7$	{123678, 14589, 2357, 469}
953:1	$0, 0, 0, 0, \frac{4}{2551}\sqrt{99781}e^{12}, \frac{4}{2551}\sqrt{31845}e^{13}, \frac{4}{2551}\sqrt{58093}e^{15},$ $\frac{4}{2551}\sqrt{80095}e^{25}, \frac{4}{2551}\sqrt{32810}e^{16}$	$(-\frac{505}{2551}, \frac{614}{2551}, \frac{1148}{2551}, -\frac{930}{2551}, \frac{109}{2551}, \frac{643}{2551}, -\frac{396}{2551}, \frac{723}{2551}, \frac{138}{2551})$ $+\frac{4}{2551}\sqrt{193965}e^3 \otimes e_7 + \frac{4}{2551}\sqrt{238934}e^2 \otimes e_4$	{126789, 13458, 2579, 346}
953:1	$0, 0, 0, 0, \frac{6}{3721}\sqrt{25789}e^{12}, \frac{4}{3721}\sqrt{127058}e^{13}, \frac{8}{3721}\sqrt{36482}e^{15},$ $\frac{12}{3721}\sqrt{3145}e^{25}, \frac{2}{3721}\sqrt{194361}e^{16}$	$(-\frac{190}{3721}, \frac{199}{3721}, \frac{1077}{3721}, \frac{1448}{3721}, \frac{9}{3721}, \frac{887}{3721}, -\frac{181}{3721}, \frac{208}{3721}, \frac{697}{3721})$ $+\frac{204}{3721}\sqrt{111}e^1 \otimes e_4 + \frac{2}{3721}\sqrt{941613}e^3 \otimes e_7$	{1267, 1359, 24578, 34689}
953:1	$0, 0, 0, 0, \frac{1}{706}\sqrt{17686}e^{12}, \frac{3}{353}\sqrt{2390}e^{13}, \frac{2}{353}\sqrt{4541}e^{15}, \frac{1}{353}\sqrt{34177}e^{25},$ $\frac{5}{706}\sqrt{1195}e^{16}$	$(-\frac{55}{706}, \frac{61}{1412}, \frac{245}{706}, -\frac{417}{1412}, -\frac{49}{1412}, \frac{95}{353}, -\frac{159}{1412}, \frac{3}{353}, \frac{135}{706})$ $+\frac{1}{706}\sqrt{134318}e^2 \otimes e_4 + \frac{1}{706}\sqrt{168495}e^3 \otimes e_8$	{1268, 145678, 23569, 34679}
953:1	$0, 0, 0, 0, \frac{1}{1139}\sqrt{451110}e^{12}, \frac{1}{1139}\sqrt{1380670}e^{13}, \frac{1}{1139}\sqrt{576874}e^{15},$ $\frac{2}{1139}\sqrt{94323}e^{25}, \frac{1}{1139}\sqrt{527662}e^{16}$	$(-\frac{7}{67}, \frac{230}{1139}, \frac{634}{1139}, -\frac{733}{1139}, \frac{111}{1139}, \frac{515}{1139}, -\frac{8}{1139}, \frac{341}{1139}, \frac{396}{1139})$ $+\frac{12}{1139}\sqrt{17771}e^3 \otimes e_4$	{123579, 124567, 139, 146, 236789, 2478, 35689, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:1	$0, 0, 0, 0, \frac{1}{77} \sqrt{4234}e^{12}, \frac{1}{77} \sqrt{730}e^{13}, \frac{1}{77} \sqrt{146}e^{15}, \frac{2}{77} \sqrt{949}e^{25},$ $\frac{1}{77} \sqrt{730}e^{16}$	$(-\frac{5}{77}, \frac{2}{7}, \frac{18}{77}, -\frac{51}{77}, \frac{17}{77}, \frac{13}{77}, \frac{12}{77}, \frac{39}{77}, \frac{8}{77})$ $+\frac{8}{77} \sqrt{146}e^2 \otimes e_4$	{123689, 128, 13456789, 14578, 2359, 256, 3479, 467}
953:1	$0, 0, 0, 0, \frac{1}{1553} \sqrt{8610}e^{12}, \frac{56}{1553} \sqrt{82}e^{13}, \frac{4}{1553} \sqrt{16933}e^{15},$ $\frac{15}{1553} \sqrt{1722}e^{25}, \frac{1}{1553} \sqrt{255430}e^{16}$	$(-\frac{254}{1553}, \frac{188}{1553}, \frac{409}{1553}, \frac{152}{1553}, -\frac{66}{1553}, \frac{155}{1553}, -\frac{320}{1553}, \frac{122}{1553}, -\frac{99}{1553})$ $+\frac{1}{1553} \sqrt{404670}e^3 \otimes e_8 + \frac{4}{1553} \sqrt{24969}e^2 \otimes e_9$	{1349, 139, 2478, 278}
953:1	$0, 0, 0, 0, \frac{19}{287} \sqrt{66}e^{12}, \frac{2}{287} \sqrt{15466}e^{13}, \frac{10}{287} \sqrt{418}e^{15}, \frac{1}{287} \sqrt{53922}e^{25},$ $\frac{1}{287} \sqrt{28006}e^{16}$	$(-\frac{2}{41}, -\frac{4}{41}, \frac{139}{287}, \frac{44}{287}, -\frac{6}{41}, \frac{125}{287}, -\frac{8}{41}, -\frac{10}{41}, \frac{111}{287})$ $+\frac{9}{287} \sqrt{1254}e^3 \otimes e_8$	{1234579, 123579, 1349, 139, 2478, 278, 458, 58}
953:1	$0, 0, 0, 0, \frac{2}{291} \sqrt{3397}e^{12}, \frac{1}{97} \sqrt{474}e^{13}, \frac{5}{291} \sqrt{158}e^{15}, \frac{1}{291} \sqrt{7426}e^{25},$ $\frac{2}{291} \sqrt{2370}e^{16}$	$(\frac{11}{291}, \frac{11}{97}, -\frac{68}{291}, \frac{10}{97}, \frac{44}{291}, -\frac{19}{97}, \frac{55}{291}, \frac{77}{291}, -\frac{46}{291})$ $+\frac{4}{291} \sqrt{1343}e^2 \otimes e_9 + \frac{5}{291} \sqrt{790}e^1 \otimes e_3$	{14589, 1589, 23457, 2357}
953:1	$0, 0, 0, 0, \frac{1}{377} \sqrt{39634}e^{12}, \frac{1}{377} \sqrt{17290}e^{13}, \frac{1}{377} \sqrt{22078}e^{15}, \frac{38}{377} \sqrt{7}e^{25},$ $\frac{1}{377} \sqrt{1330}e^{16}$	$(\frac{55}{377}, \frac{10}{377}, -\frac{6}{29}, -\frac{123}{377}, \frac{5}{29}, -\frac{23}{377}, \frac{120}{377}, \frac{75}{377}, \frac{32}{377})$ $+\frac{6}{377} \sqrt{1330}e^1 \otimes e_3 + \frac{8}{377} \sqrt{665}e^2 \otimes e_4$	{1278, 1458, 23579, 349}
953:1	$0, 0, 0, 0, \frac{10}{3033} \sqrt{3403}e^{12}, \frac{10}{3033} \sqrt{22222}e^{13}, \frac{10}{1011} \sqrt{1066}e^{15},$ $\frac{10}{3033} \sqrt{18942}e^{25}, \frac{10}{3033} \sqrt{2911}e^{16}$	$(-\frac{400}{3033}, -\frac{5}{1011}, \frac{1235}{3033}, \frac{180}{337}, -\frac{415}{3033}, \frac{835}{3033}, -\frac{815}{3033}, -\frac{430}{3033}, \frac{145}{1011})$ $+\frac{10}{1011} \sqrt{6437}e^3 \otimes e_7 + \frac{20}{3033} \sqrt{12874}e^4 \otimes e_8$	{123459, 1467, 23689, 578}
953:1	$0, 0, 0, 0, \frac{4}{1275} \sqrt{27491}e^{12}, \frac{1}{425} \sqrt{22290}e^{13}, \frac{1}{425} \sqrt{43094}e^{15},$ $\frac{1}{1275} \sqrt{156030}e^{25}, \frac{14}{1275} \sqrt{743}e^{16}$	$(\frac{331}{1275}, -\frac{83}{425}, -\frac{412}{1275}, \frac{192}{425}, \frac{82}{1275}, -\frac{27}{425}, \frac{413}{1275}, -\frac{167}{1275}, \frac{10}{51})$ $+\frac{1}{1275} \sqrt{1038714}e^1 \otimes e_3 + \frac{4}{1275} \sqrt{39379}e^4 \otimes e_8$	{12789, 1589, 23457, 34}
953:1	$0, 0, 0, 0, \frac{4}{119} \sqrt{258}e^{12}, \frac{2}{119} \sqrt{301}e^{13}, \frac{10}{119} \sqrt{43}e^{15}, \frac{8}{119} \sqrt{129}e^{25},$ $\frac{4}{119} \sqrt{430}e^{16}$	$(-\frac{26}{119}, \frac{47}{119}, \frac{13}{119}, \frac{20}{119}, \frac{3}{17}, -\frac{13}{119}, -\frac{5}{119}, \frac{4}{7}, -\frac{39}{119})$ $+\frac{6}{119} \sqrt{473}e^2 \otimes e_9$	{12468, 1268, 1345789, 135789, 245, 25, 34679, 3679}
953:1	$0, 0, 0, 0, \frac{9}{403} \sqrt{674}e^{12}, \frac{4}{403} \sqrt{3370}e^{13}, \frac{2}{403} \sqrt{13817}e^{15}, \frac{1}{403} \sqrt{2022}e^{25},$ $\frac{4}{403} \sqrt{3370}e^{16}$	$(\frac{80}{403}, -\frac{5}{403}, -\frac{7}{403}, -\frac{257}{403}, \frac{75}{403}, \frac{73}{403}, \frac{5}{13}, \frac{70}{403}, \frac{153}{403})$ $+\frac{2}{403} \sqrt{55605}e^1 \otimes e_4$	{12379, 1267, 1359, 156, 23456789, 24578, 34689, 48}
953:1	$0, 0, 0, 0, \frac{1}{387} \sqrt{4810}e^{12}, \frac{2}{387} \sqrt{10582}e^{13}, \frac{2}{129} \sqrt{1443}e^{15}, \frac{7}{387} \sqrt{2886}e^{25},$ $\frac{2}{387} \sqrt{10582}e^{16}$	$(\frac{44}{387}, -\frac{23}{129}, \frac{29}{387}, 1, -\frac{25}{387}, \frac{73}{387}, \frac{19}{387}, -\frac{94}{387}, \frac{13}{43})$ $+\frac{2}{387} \sqrt{75517}e^4 \otimes e_8$	{1234579, 124567, 1349, 146, 236789, 278, 35689, 58}
953:1	$0, 0, 0, 0, \frac{36}{2951} \sqrt{849}e^{12}, \frac{108}{2951} \sqrt{203}e^{13}, \frac{36}{2951} \sqrt{435}e^{15},$ $\frac{36}{2951} \sqrt{195}e^{25}, \frac{72}{2951} \sqrt{435}e^{16}$	$(-\frac{711}{2951}, \frac{558}{2951}, \frac{1080}{2951}, \frac{1602}{2951}, -\frac{153}{2951}, \frac{369}{2951}, -\frac{864}{2951}, \frac{405}{2951}, -\frac{342}{2951})$ $+\frac{36}{2951} \sqrt{3786}e^4 \otimes e_9 + \frac{36}{2951} \sqrt{4047}e^3 \otimes e_7$	{12359, 1467, 23689, 4578}
953:1	$0, 0, 0, 0, \frac{1}{1139} \sqrt{451110}e^{12}, \frac{1}{1139} \sqrt{527662}e^{13}, \frac{1}{1139} \sqrt{576874}e^{15},$ $\frac{2}{1139} \sqrt{94323}e^{25}, \frac{1}{1139} \sqrt{1380670}e^{16}$	$(-\frac{7}{67}, \frac{230}{1139}, \frac{10}{1139}, 1, \frac{111}{1139}, -\frac{109}{1139}, -\frac{8}{1139}, \frac{341}{1139}, -\frac{228}{1139})$ $+\frac{12}{1139} \sqrt{17771}e^4 \otimes e_9$	{123579, 124567, 139, 146, 236789, 2478, 35689, 458}
953:1	$0, 0, 0, 0, \frac{1}{209} \sqrt{5523}e^{12}, \frac{1}{209} \sqrt{17358}e^{13}, \frac{3}{418} \sqrt{2630}e^{15}, \frac{1}{209} \sqrt{15517}e^{25},$ $\frac{1}{418} \sqrt{24459}e^{16}$	$(-\frac{39}{418}, -\frac{47}{836}, \frac{177}{418}, \frac{17}{44}, -\frac{125}{836}, \frac{69}{209}, -\frac{203}{836}, -\frac{43}{209}, \frac{9}{38})$ $+\frac{1}{418} \sqrt{57334}e^4 \otimes e_7 + \frac{3}{418} \sqrt{14991}e^3 \otimes e_8$	{123579, 1349, 278, 458}
953:1	$0, 0, 0, 0, \frac{3}{71} \sqrt{354}e^{12}, \frac{1}{71} \sqrt{1770}e^{13}, \frac{1}{71} \sqrt{3422}e^{15}, \frac{2}{71} \sqrt{177}e^{25},$ $\frac{1}{71} \sqrt{590}e^{16}$	$(\frac{25}{71}, -\frac{10}{71}, -\frac{34}{71}, \frac{11}{71}, \frac{15}{71}, -\frac{9}{71}, \frac{40}{71}, \frac{5}{71}, \frac{16}{71})$ $+\frac{2}{71} \sqrt{1770}e^1 \otimes e_3$	{12479, 1279, 1459, 159, 234578, 23578, 348, 38}
953:1	$0, 0, 0, 0, \frac{1}{437} \sqrt{37410}e^{12}, \frac{1}{437} \sqrt{29290}e^{13}, \frac{3}{437} \sqrt{6670}e^{15}, \frac{58}{437} \sqrt{5}e^{25},$ $\frac{5}{437} \sqrt{290}e^{16}$	$(\frac{51}{437}, -\frac{2}{23}, -\frac{94}{437}, \frac{11}{23}, \frac{13}{437}, -\frac{43}{437}, \frac{64}{437}, -\frac{25}{437}, \frac{8}{437})$ $+\frac{2}{437} \sqrt{16530}e^1 \otimes e_3 + \frac{4}{437} \sqrt{3190}e^4 \otimes e_7$	{127, 145, 235789, 3489}
953:1	$0, 0, 0, 0, \frac{6}{571} \sqrt{323}e^{12}, \frac{2}{571} \sqrt{45866}e^{13}, \frac{2}{571} \sqrt{49742}e^{15}, \frac{6}{571} \sqrt{646}e^{25},$ $\frac{2}{571} \sqrt{4845}e^{16}$	$(-\frac{172}{571}, \frac{127}{571}, \frac{429}{571}, \frac{100}{571}, -\frac{45}{571}, \frac{257}{571}, -\frac{217}{571}, \frac{82}{571}, \frac{85}{571})$ $+\frac{2}{571} \sqrt{152133}e^3 \otimes e_7$	{123458, 12358, 146789, 16789, 2346, 236, 4579, 579}
953:2	$0, 0, 0, 0, \frac{2}{381} \sqrt{3531}e^{12}, \frac{1}{381} \sqrt{7062}e^{13}, \frac{1}{381} \sqrt{7062}e^{15}, \frac{2}{381} \sqrt{3531}e^{25},$ $\frac{1}{381} \sqrt{27178}e^{36}$	$(-\frac{28}{127}, \frac{33}{127}, \frac{38}{381}, \frac{16}{127}, \frac{5}{127}, -\frac{46}{381}, -\frac{23}{127}, \frac{38}{127}, -\frac{8}{381})$ $+\frac{10}{381} \sqrt{321}e^3 \otimes e_7 + \frac{1}{381} \sqrt{39162}e^2 \otimes e_9$	{134589, 13589, 2457, 257}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:2	$0, 0, 0, 0, \frac{10}{799}\sqrt{1497e^{12}}, \frac{18}{799}\sqrt{499e^{13}}, \frac{4}{799}\sqrt{38922e^{15}}, \frac{4}{799}\sqrt{6986e^{25}},$ $\frac{8}{799}\sqrt{1497e^{36}}$	$(-\frac{162}{799}, \frac{125}{799}, \frac{177}{799}, 1, -\frac{37}{799}, \frac{15}{799}, -\frac{199}{799}, \frac{88}{799}, \frac{192}{799})$ $+\frac{2}{799}\sqrt{326845e^4} \otimes e_7$	{12367, 127, 13456, 145, 235789, 256789, 3489, 4689}
953:2	$0, 0, 0, 0, \frac{4}{59}\sqrt{30e^{12}}, \frac{2}{59}\sqrt{105e^{13}}, \frac{2}{59}\sqrt{105e^{15}}, \frac{4}{59}\sqrt{30e^{25}},$ $\frac{12}{59}\sqrt{5e^{36}}$	$(-\frac{14}{59}, \frac{15}{59}, \frac{17}{59}, -\frac{15}{59}, \frac{1}{59}, \frac{3}{59}, -\frac{13}{59}, \frac{16}{59}, \frac{20}{59})$ $+\frac{2}{59}\sqrt{345e^2} \otimes e_4 + \frac{4}{59}\sqrt{105e^3} \otimes e_7$	{126789, 134589, 257, 346}
953:2	$0, 0, 0, 0, \frac{6}{1013}\sqrt{3910e^{12}}, \frac{12}{1013}\sqrt{51e^{13}}, \frac{6}{1013}\sqrt{1343e^{15}},$ $\frac{12}{1013}\sqrt{1547e^{25}}, \frac{1}{1013}\sqrt{3842e^{36}}$	$(-\frac{24}{1013}, \frac{84}{1013}, -\frac{99}{1013}, \frac{450}{1013}, \frac{60}{1013}, -\frac{123}{1013}, \frac{36}{1013}, \frac{144}{1013}, -\frac{222}{1013})$ $+\frac{6}{1013}\sqrt{5695e^4} \otimes e_8 + \frac{6}{1013}\sqrt{9571e^2} \otimes e_9$	{12368, 128, 3479, 4679}
953:2	$0, 0, 0, 0, \frac{1}{113}\sqrt{542e^{12}}, \frac{1}{339}\sqrt{47154e^{13}}, \frac{1}{339}\sqrt{47154e^{15}}, \frac{1}{113}\sqrt{542e^{25}},$ $\frac{1}{339}\sqrt{61246e^{36}}$	$(-\frac{35}{113}, \frac{26}{113}, \frac{139}{339}, \frac{20}{113}, -\frac{9}{113}, \frac{34}{339}, -\frac{44}{113}, \frac{17}{113}, \frac{173}{339})$ $+\frac{1}{113}\sqrt{16802e^3} \otimes e_7$	{1234589, 123589, 146789, 16789, 2346, 236, 457, 57}
953:2	$0, 0, 0, 0, \frac{4}{1619}\sqrt{3521e^{12}}, \frac{2}{1619}\sqrt{137319e^{13}}, \frac{5}{1619}\sqrt{3018e^{15}},$ $\frac{1}{1619}\sqrt{395358e^{25}}, \frac{4}{1619}\sqrt{23138e^{36}}$	$(\frac{187}{1619}, -\frac{250}{1619}, \frac{190}{1619}, -\frac{316}{1619}, -\frac{63}{1619}, \frac{377}{1619}, \frac{124}{1619}, -\frac{313}{1619}, \frac{567}{1619})$ $+\frac{1}{1619}\sqrt{518090e^1} \otimes e_4 + \frac{1}{1619}\sqrt{910430e^3} \otimes e_8$	{12689, 156789, 23456, 3467}
953:2	$0, 0, 0, 0, \frac{1}{59}\sqrt{46e^{12}}, \frac{1}{177}\sqrt{4002e^{13}}, \frac{1}{177}\sqrt{4002e^{15}}, \frac{1}{59}\sqrt{46e^{25}},$ $\frac{1}{177}\sqrt{8142e^{36}}$	$(-\frac{35}{177}, \frac{26}{177}, \frac{25}{177}, \frac{28}{59}, -\frac{3}{59}, -\frac{10}{177}, -\frac{44}{177}, \frac{17}{59}, \frac{5}{59})$ $+\frac{1}{59}\sqrt{1426e^3} \otimes e_7 + \frac{8}{177}\sqrt{138e^4} \otimes e_9$	{123589, 16789, 2346, 457}
953:2	$0, 0, 0, 0, \frac{2}{167}\sqrt{4582e^{12}}, \frac{2}{167}\sqrt{553e^{13}}, \frac{2}{167}\sqrt{553e^{15}}, \frac{2}{167}\sqrt{4582e^{25}},$ $\frac{2}{167}\sqrt{790e^{36}}$	$(-\frac{14}{167}, \frac{51}{167}, \frac{27}{167}, -\frac{107}{167}, \frac{37}{167}, \frac{13}{167}, \frac{23}{167}, \frac{88}{167}, \frac{40}{167})$ $+\frac{2}{167}\sqrt{10823e^2} \otimes e_4$	{12368, 128, 1345678, 14578, 2359, 2569, 3479, 4679}
953:2	$0, 0, 0, 0, \frac{4}{1653}\sqrt{22965e^{12}}, \frac{12}{551}\sqrt{1531e^{13}}, \frac{1}{551}\sqrt{58178e^{15}},$ $\frac{1}{551}\sqrt{52054e^{25}}, \frac{1}{1653}\sqrt{1687162e^{36}}$	$(-\frac{23}{551}, \frac{85}{551}, \frac{454}{1653}, -\frac{359}{551}, \frac{62}{551}, \frac{385}{1653}, \frac{39}{551}, \frac{147}{551}, \frac{839}{1653})$ $+\frac{1}{1653}\sqrt{4179630e^3} \otimes e_4$	{123579, 1245679, 139, 1469, 23678, 2478, 3568, 458}
953:2	$0, 0, 0, 0, \frac{2}{303}\sqrt{93e^{12}}, \frac{2}{303}\sqrt{195e^{13}}, \frac{2}{101}\sqrt{17e^{15}}, \frac{2}{303}\sqrt{354e^{25}},$ $\frac{2}{303}\sqrt{303e^{36}}$	$(-\frac{5}{101}, \frac{3}{101}, \frac{3}{101}, \frac{10}{101}, -\frac{2}{101}, \frac{2}{101}, -\frac{7}{101}, \frac{1}{101}, \frac{1}{101})$ $+\frac{16}{303}\sqrt{6e^2} \otimes e_9 + \frac{2}{303}\sqrt{435e^3} \otimes e_8$	{1456789, 156789, 23456, 2356}
953:2	$0, 0, 0, 0, \frac{4}{3991}\sqrt{29041e^{12}}, \frac{4}{3991}\sqrt{116390e^{13}}, \frac{76}{3991}\sqrt{226e^{15}},$ $\frac{4}{3991}\sqrt{177523e^{25}}, \frac{20}{3991}\sqrt{3955e^{36}}$	$(-\frac{10}{307}, -\frac{27}{3991}, \frac{720}{3991}, -\frac{931}{3991}, -\frac{157}{3991}, \frac{590}{3991}, -\frac{287}{3991}, -\frac{184}{3991}, \frac{1310}{3991})$ $+\frac{4}{3991}\sqrt{154358e^2} \otimes e_4 + \frac{4}{3991}\sqrt{247470e^3} \otimes e_8$	{12689, 1456789, 2356, 3467}
953:2	$0, 0, 0, 0, \frac{1}{1993}\sqrt{84786e^{12}}, \frac{1}{1993}\sqrt{819598e^{13}}, \frac{2}{1993}\sqrt{133701e^{15}},$ $\frac{1}{1993}\sqrt{484802e^{25}}, \frac{2}{1993}\sqrt{242401e^{36}}$	$(-\frac{324}{1993}, \frac{76}{1993}, \frac{515}{1993}, \frac{915}{1993}, -\frac{248}{1993}, \frac{191}{1993}, -\frac{572}{1993}, -\frac{172}{1993}, \frac{706}{1993})$ $+\frac{14}{1993}\sqrt{11957e^3} \otimes e_7 + \frac{1}{1993}\sqrt{1423970e^4} \otimes e_8$	{123459, 14679, 2368, 578}
953:2	$0, 0, 0, 0, \frac{6}{787}\sqrt{611e^{12}}, \frac{2}{787}\sqrt{25051e^{13}}, \frac{26}{2361}\sqrt{705e^{15}}, \frac{2}{787}\sqrt{23218e^{25}},$ $\frac{2}{2361}\sqrt{961714e^{36}}$	$(\frac{22}{787}, -\frac{90}{787}, \frac{137}{2361}, \frac{317}{787}, -\frac{68}{787}, \frac{203}{2361}, -\frac{46}{787}, -\frac{158}{787}, \frac{340}{2361})$ $+\frac{1}{2361}\sqrt{854178e^4} \otimes e_9 + \frac{94}{2361}\sqrt{195e^3} \otimes e_8$	{123579, 139, 2478, 458}
953:2	$0, 0, 0, 0, \frac{2}{37}\sqrt{47e^{12}}, \frac{2}{111}\sqrt{282e^{13}}, \frac{2}{111}\sqrt{282e^{15}}, \frac{2}{37}\sqrt{47e^{25}},$ $\frac{1}{111}\sqrt{10434e^{36}}$	$(\frac{8}{111}, \frac{10}{111}, -\frac{19}{111}, 1, \frac{6}{37}, -\frac{11}{111}, \frac{26}{111}, \frac{28}{111}, -\frac{10}{37})$ $+\frac{1}{111}\sqrt{25098e^4} \otimes e_9$	{123789, 126789, 13589, 15689, 234567, 2457, 346, 4}
953:2	$0, 0, 0, 0, \frac{4}{2623}\sqrt{26727e^{12}}, \frac{84}{2623}\sqrt{302e^{13}}, \frac{40}{2623}\sqrt{453e^{15}},$ $\frac{4}{2623}\sqrt{124273e^{25}}, \frac{4}{2623}\sqrt{109173e^{36}}$	$(-\frac{54}{2623}, -\frac{295}{2623}, \frac{564}{2623}, \frac{805}{2623}, -\frac{349}{2623}, \frac{510}{2623}, -\frac{403}{2623}, -\frac{644}{2623}, \frac{1074}{2623})$ $+\frac{12}{2623}\sqrt{30502e^3} \otimes e_8 + \frac{4}{2623}\sqrt{68554e^4} \otimes e_7$	{123579, 1349, 278, 458}
953:2	$0, 0, 0, 0, \frac{6}{277}\sqrt{211e^{12}}, \frac{2}{277}\sqrt{8651e^{13}}, \frac{2}{831}\sqrt{41145e^{15}}, \frac{2}{277}\sqrt{8018e^{25}},$ $\frac{2}{831}\sqrt{58447e^{36}}$	$(\frac{11}{277}, -\frac{45}{277}, \frac{185}{831}, \frac{42}{277}, -\frac{34}{277}, \frac{218}{831}, -\frac{23}{277}, -\frac{79}{277}, \frac{403}{831})$ $+\frac{2}{831}\sqrt{148755e^3} \otimes e_8$	{1234579, 123579, 1349, 139, 2478, 278, 458, 58}
953:2	$0, 0, 0, 0, \frac{10}{169}\sqrt{17e^{12}}, \frac{10}{169}\sqrt{31e^{13}}, \frac{10}{169}\sqrt{2e^{15}}, \frac{10}{169}\sqrt{57e^{25}},$ $\frac{60}{169}e^{36}$	$(-\frac{25}{169}, \frac{8}{169}, \frac{41}{169}, \frac{21}{169}, -\frac{17}{169}, \frac{16}{169}, -\frac{42}{169}, -\frac{9}{169}, \frac{57}{169})$ $+\frac{10}{169}\sqrt{61e^2} \otimes e_7 + \frac{10}{169}\sqrt{87e^3} \otimes e_8$	{124689, 12689, 1456789, 156789, 23456, 2356, 3467, 367}
953:2	$0, 0, 0, 0, \frac{10}{169}\sqrt{17e^{12}}, \frac{10}{169}\sqrt{31e^{13}}, \frac{10}{169}\sqrt{2e^{15}}, \frac{10}{169}\sqrt{57e^{25}},$ $\frac{60}{169}e^{36}$	$(-\frac{25}{169}, \frac{8}{169}, \frac{41}{169}, \frac{21}{169}, -\frac{17}{169}, \frac{16}{169}, -\frac{42}{169}, -\frac{9}{169}, \frac{57}{169})$ $-\frac{10}{169}\sqrt{61e^2} \otimes e_7 + \frac{10}{169}\sqrt{87e^3} \otimes e_8$	{124689, 12689, 1456789, 156789, 23456, 2356, 3467, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:2	$0, 0, 0, 0, \frac{2}{93}\sqrt{195}e^{12}, \frac{26}{93}e^{13}, \frac{4}{93}\sqrt{26}e^{15}, \frac{2}{93}\sqrt{286}e^{25},$ $\frac{2}{93}\sqrt{403}e^{36}$	$(-\frac{3}{31}, \frac{7}{31}, \frac{2}{93}, -\frac{8}{31}, \frac{4}{31}, -\frac{7}{93}, \frac{1}{31}, \frac{11}{31}, -\frac{5}{93})$ $+\frac{2}{93}\sqrt{455}e^3 \otimes e_4 + \frac{2}{93}\sqrt{611}e^2 \otimes e_9$	{135789, 1456789, 2356, 245}
953:2	$0, 0, 0, 0, \frac{22}{821}\sqrt{267}e^{12}, \frac{44}{821}\sqrt{5}e^{13}, \frac{198}{821}e^{15}, \frac{22}{821}\sqrt{145}e^{25},$ $\frac{44}{821}\sqrt{43}e^{36}$	$(\frac{40}{821}, \frac{104}{821}, -\frac{89}{821}, -\frac{202}{821}, \frac{144}{821}, -\frac{49}{821}, \frac{184}{821}, \frac{248}{821}, -\frac{138}{821})$ $+\frac{22}{821}\sqrt{305}e^1 \otimes e_4 + \frac{22}{821}\sqrt{413}e^2 \otimes e_9$	{13589, 15689, 234567, 2457}
953:2	$0, 0, 0, 0, \frac{1}{2563}\sqrt{368790}e^{12}, \frac{1}{2563}\sqrt{666410}e^{13}, \frac{1}{2563}\sqrt{948502}e^{15},$ $\frac{1}{2563}\sqrt{195394}e^{25}, \frac{1}{2563}\sqrt{635354}e^{36}$	$(-\frac{163}{2563}, \frac{146}{2563}, \frac{467}{2563}, -\frac{810}{2563}, \frac{17}{2563}, \frac{304}{2563}, \frac{180}{2563}, \frac{129}{2563}, \frac{771}{2563})$ $+\frac{1}{2563}\sqrt{1543742}e^3 \otimes e_7 + \frac{2}{2563}\sqrt{352615}e^1 \otimes e_4$	{12679, 1359, 24578, 3468}
953:2	$0, 0, 0, 0, \frac{36}{1697}\sqrt{1159}e^{12}, \frac{9}{1697}\sqrt{8854}e^{13}, \frac{18}{1697}\sqrt{4845}e^{15},$ $\frac{18}{1697}\sqrt{627}e^{25}, \frac{36}{1697}\sqrt{247}e^{36}$	$(\frac{466}{1697}, -\frac{110}{1697}, -\frac{25}{1697}, -\frac{1073}{1697}, \frac{356}{1697}, \frac{441}{1697}, \frac{822}{1697}, \frac{246}{1697}, \frac{416}{1697})$ $+\frac{9}{1697}\sqrt{52630}e^1 \otimes e_4$	{12379, 12679, 1359, 1569, 2345678, 24578, 3468, 48}
953:2	$0, 0, 0, 0, \frac{1}{1637}\sqrt{251198}e^{12}, \frac{1}{1637}\sqrt{531222}e^{13}, \frac{4}{1637}\sqrt{35003}e^{15},$ $\frac{1}{1637}\sqrt{2433738}e^{25}, \frac{4}{1637}\sqrt{26767}e^{36}$	$(\frac{258}{1637}, -\frac{340}{1637}, \frac{79}{1637}, 1, -\frac{82}{1637}, \frac{337}{1637}, \frac{176}{1637}, -\frac{422}{1637}, \frac{416}{1637})$ $+\frac{5}{1637}\sqrt{218254}e^4 \otimes e_8$	{12389, 12689, 135789, 156789, 23456, 245, 3467, 47}
953:2	$0, 0, 0, 0, \frac{4}{69}\sqrt{129}e^{12}, \frac{1}{69}\sqrt{258}e^{13}, \frac{1}{69}\sqrt{258}e^{15}, \frac{4}{69}\sqrt{129}e^{25},$ $\frac{1}{69}\sqrt{1978}e^{36}$	$(-\frac{2}{23}, \frac{7}{23}, -\frac{8}{69}, \frac{4}{23}, \frac{5}{23}, -\frac{14}{69}, \frac{3}{23}, \frac{12}{23}, -\frac{22}{69})$ $+\frac{1}{69}\sqrt{4902}e^2 \otimes e_9$	{123468, 12368, 1248, 128, 3479, 379, 4679, 679}
953:2	$0, 0, 0, 0, \frac{8}{361}\sqrt{501}e^{12}, \frac{3}{361}\sqrt{1002}e^{13}, \frac{1}{361}\sqrt{11022}e^{15}, \frac{2}{361}\sqrt{6346}e^{25},$ $\frac{1}{361}\sqrt{29058}e^{36}$	$(-\frac{54}{361}, \frac{89}{361}, -\frac{12}{361}, \frac{148}{361}, \frac{35}{361}, -\frac{66}{361}, -\frac{1}{19}, \frac{124}{361}, -\frac{78}{361})$ $+\frac{10}{361}\sqrt{334}e^4 \otimes e_7 + \frac{1}{361}\sqrt{71142}e^2 \otimes e_9$	{123678, 1278, 349, 469}
953:3	$0, 0, 0, 0, \frac{1}{133}\sqrt{6090}e^{12}, \frac{1}{133}\sqrt{11890}e^{13}, \frac{1}{133}\sqrt{24070}e^{15}, \frac{2}{133}\sqrt{2465}e^{25},$ $\frac{1}{133}\sqrt{11890}e^{16} + \frac{2}{133}\sqrt{2755}e^{23}$	$(-\frac{3}{133}, -\frac{6}{133}, \frac{22}{133}, 1, -\frac{9}{133}, \frac{1}{7}, -\frac{12}{133}, -\frac{15}{133}, \frac{16}{133})$ $+\frac{2}{133}\sqrt{8265}e^4 \otimes e_7$	{134569, 145, 3489, 468}
953:3	$0, 0, 0, 0, \frac{3}{166}\sqrt{186}e^{12}, \frac{9}{83}\sqrt{2}e^{13}, \frac{3}{166}\sqrt{690}e^{15}, \frac{3}{166}\sqrt{510}e^{25},$ $\frac{3}{166}\sqrt{210}e^{16} + \frac{9}{166}\sqrt{110}e^{23}$	$(-\frac{3}{83}, -\frac{6}{83}, \frac{15}{83}, \frac{36}{83}, \frac{9}{83}, \frac{12}{83}, -\frac{12}{83}, \frac{15}{83}, \frac{9}{83})$ $+\frac{3}{166}\sqrt{714}e^4 \otimes e_9 + \frac{3}{83}\sqrt{282}e^3 \otimes e_7$	{1478, 4567}
953:3	$0, 0, 0, 0, \frac{68}{1817}\sqrt{3}e^{12}, \frac{34}{1817}\sqrt{790}e^{13}, \frac{34}{1817}\sqrt{274}e^{15}, \frac{34}{1817}\sqrt{519}e^{25},$ $\frac{68}{1817}\sqrt{130}e^{16} + \frac{34}{1817}\sqrt{267}e^{23}$	$(-\frac{17}{1817}, -\frac{34}{1817}, \frac{493}{1817}, -\frac{595}{1817}, -\frac{51}{1817}, \frac{476}{1817}, -\frac{68}{1817}, -\frac{85}{1817}, \frac{459}{1817})$ $+\frac{102}{1817}\sqrt{89}e^1 \otimes e_4 + \frac{306}{1817}\sqrt{10}e^3 \otimes e_8$	{123579, 2478}
953:3	$0, 0, 0, 0, \frac{5}{137}\sqrt{111}e^{12}, \frac{10}{137}\sqrt{43}e^{13}, \frac{5}{137}\sqrt{133}e^{15}, \frac{15}{137}\sqrt{15}e^{25},$ $\frac{5}{137}\sqrt{145}e^{16} + \frac{5}{137}\sqrt{69}e^{23}$	$(-\frac{5}{137}, -\frac{10}{137}, \frac{25}{137}, \frac{65}{137}, -\frac{15}{137}, \frac{20}{137}, -\frac{20}{137}, -\frac{25}{137}, \frac{15}{137})$ $+\frac{15}{137}\sqrt{23}e^4 \otimes e_9 + \frac{60}{137}\sqrt{2}e^3 \otimes e_8$	{139, 458}
953:3	$0, 0, 0, 0, \frac{4}{119}\sqrt{258}e^{12}, \frac{4}{119}\sqrt{430}e^{13}, \frac{4}{119}\sqrt{86}e^{15}, \frac{2}{119}\sqrt{645}e^{25},$ $\frac{4}{119}\sqrt{430}e^{16} + \frac{2}{119}\sqrt{1419}e^{23}$	$(\frac{1}{17}, \frac{2}{17}, \frac{13}{119}, -\frac{79}{119}, \frac{3}{20}, \frac{20}{17}, \frac{4}{17}, \frac{5}{17}, \frac{27}{119})$ $+\frac{6}{119}\sqrt{473}e^1 \otimes e_4$	{123789, 12678, 2345679, 2457}
953:3	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{2}{35}\sqrt{19}e^{13}, \frac{1}{35}\sqrt{133}e^{15}, \frac{1}{35}\sqrt{57}e^{25},$ $\frac{1}{35}\sqrt{817}e^{16} + \frac{1}{35}\sqrt{741}e^{23}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{1}{7}, 1, \frac{3}{35}, -\frac{4}{35}, \frac{4}{35}, \frac{1}{7}, -\frac{3}{35})$ $+\frac{3}{35}\sqrt{247}e^4 \otimes e_9$	{1389, 1468, 3569, 45}
953:3	$0, 0, 0, 0, \frac{105}{2113}\sqrt{14}e^{12}, \frac{70}{2113}\sqrt{26}e^{13}, \frac{70}{2113}\sqrt{382}e^{15},$ $\frac{35}{2113}\sqrt{566}e^{25}, \frac{35}{2113}\sqrt{838}e^{16} + \frac{35}{2113}\sqrt{1570}e^{23}$	$(-\frac{105}{2113}, -\frac{210}{2113}, \frac{805}{2113}, \frac{700}{2113}, -\frac{315}{2113}, \frac{700}{2113}, -\frac{420}{2113}, -\frac{525}{2113}, \frac{595}{2113})$ $+\frac{105}{2113}\sqrt{314}e^3 \otimes e_7 + \frac{35}{2113}\sqrt{942}e^4 \otimes e_8$	{12358, 2346}
953:3	$0, 0, 0, 0, \frac{105}{3949}\sqrt{62}e^{12}, \frac{35}{3949}\sqrt{1302}e^{13}, \frac{105}{3949}\sqrt{118}e^{15},$ $\frac{70}{3949}\sqrt{653}e^{25}, \frac{105}{3949}\sqrt{6}e^{16} + \frac{70}{3949}\sqrt{281}e^{23}$	$(-\frac{35}{3949}, -\frac{70}{3949}, \frac{1050}{3949}, -\frac{1295}{3949}, \frac{105}{3949}, \frac{1015}{3949}, -\frac{140}{3949}, -\frac{175}{3949}, \frac{980}{3949})$ $+\frac{420}{3949}\sqrt{26}e^3 \otimes e_8 + \frac{70}{3949}\sqrt{843}e^2 \otimes e_4$	{145678, 34679}
953:3	$0, 0, 0, 0, \frac{124}{3109}\sqrt{30}e^{12}, \frac{620}{3109}\sqrt{2}e^{13}, \frac{62}{3109}\sqrt{545}e^{15},$ $\frac{124}{3109}\sqrt{57}e^{25}, \frac{31}{3109}\sqrt{210}e^{16} + \frac{31}{3109}\sqrt{1158}e^{23}$	$(-\frac{31}{3109}, -\frac{62}{3109}, \frac{837}{3109}, -\frac{992}{3109}, -\frac{93}{3109}, \frac{806}{3109}, -\frac{124}{3109}, -\frac{155}{3109}, \frac{775}{3109})$ $+\frac{31}{3109}\sqrt{2586}e^1 \otimes e_4 + \frac{31}{3109}\sqrt{3030}e^3 \otimes e_7$	{12679, 245789}
953:3	$0, 0, 0, 0, \frac{16}{425}\sqrt{66}e^{12}, \frac{16}{425}\sqrt{61}e^{13}, \frac{32}{425}\sqrt{42}e^{15}, \frac{16}{425}\sqrt{55}e^{25},$ $\frac{16}{425}\sqrt{134}e^{16} + \frac{16}{425}\sqrt{203}e^{23}$	$(-\frac{4}{425}, -\frac{8}{425}, \frac{112}{425}, -\frac{8}{25}, -\frac{12}{425}, \frac{108}{425}, -\frac{16}{425}, -\frac{4}{85}, \frac{104}{425})$ $+\frac{16}{425}\sqrt{219}e^3 \otimes e_7 + \frac{48}{425}\sqrt{19}e^2 \otimes e_4$	{134569, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:3	$0, 0, 0, 0, \frac{37}{2221}\sqrt{390}e^{12}, \frac{37}{2221}\sqrt{1070}e^{13}, \frac{37}{2221}\sqrt{122}e^{15},$ $\frac{74}{2221}\sqrt{235}e^{25}, \frac{37}{2221}\sqrt{206}e^{16} + \frac{74}{2221}\sqrt{109}e^{23}$	$(-\frac{111}{2221}, -\frac{222}{2221}, \frac{814}{2221}, \frac{925}{2221}, -\frac{333}{2221}, \frac{703}{2221}, -\frac{444}{2221}, -\frac{555}{2221}, \frac{592}{2221})$ $+\frac{1332}{2221}\sqrt{2}e^3 \otimes e_8 + \frac{74}{2221}\sqrt{327}e^4 \otimes e_7$	{1349, 458}
953:3	$0, 0, 0, 0, \frac{6}{571}\sqrt{323}e^{12}, \frac{2}{571}\sqrt{45866}e^{13}, \frac{8}{571}\sqrt{3230}e^{15}, \frac{4}{571}\sqrt{23902}e^{25},$ $\frac{2}{571}\sqrt{45866}e^{16} + \frac{2}{571}\sqrt{50711}e^{23}$	$(-\frac{15}{571}, -\frac{30}{571}, \frac{115}{571}, 1, -\frac{45}{571}, \frac{100}{571}, -\frac{60}{571}, -\frac{75}{571}, \frac{85}{571})$ $+\frac{2}{571}\sqrt{152133}e^4 \otimes e_8$	{1234579, 124567, 236789, 278}
953:3	$0, 0, 0, 0, \frac{1}{35}\sqrt{399}e^{12}, \frac{1}{35}\sqrt{817}e^{13}, \frac{1}{35}\sqrt{133}e^{15}, \frac{1}{35}\sqrt{57}e^{25},$ $\frac{2}{35}\sqrt{19}e^{16} + \frac{1}{35}\sqrt{741}e^{23}$	$(\frac{1}{35}, \frac{2}{35}, \frac{29}{70}, -\frac{47}{70}, \frac{3}{35}, \frac{31}{70}, \frac{4}{35}, \frac{1}{7}, \frac{33}{70})$ $+\frac{3}{35}\sqrt{247}e^3 \otimes e_4$	{1389, 1468, 3569, 45}
953:3	$0, 0, 0, 0, \frac{3}{71}\sqrt{354}e^{12}, \frac{1}{71}\sqrt{1770}e^{13}, \frac{3}{71}\sqrt{118}e^{15}, \frac{2}{71}\sqrt{413}e^{25},$ $\frac{1}{71}\sqrt{1770}e^{16} + \frac{2}{71}\sqrt{590}e^{23}$	$(\frac{5}{71}, \frac{10}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{15}{71}, \frac{11}{71}, \frac{20}{71}, \frac{25}{71}, \frac{16}{71})$ $+\frac{2}{71}\sqrt{1770}e^2 \otimes e_4$	{1345689, 1458, 349, 46}
953:3	$0, 0, 0, 0, \frac{4}{533}\sqrt{645}e^{12}, \frac{20}{533}\sqrt{43}e^{13}, \frac{4}{533}\sqrt{13287}e^{15}, \frac{4}{533}\sqrt{8041}e^{25},$ $\frac{4}{533}\sqrt{7826}e^{16} + \frac{4}{533}\sqrt{13502}e^{23}$	$(-\frac{25}{533}, -\frac{50}{533}, \frac{244}{533}, \frac{62}{533}, -\frac{75}{533}, \frac{219}{533}, -\frac{100}{533}, -\frac{125}{533}, \frac{194}{533})$ $+\frac{4}{533}\sqrt{20253}e^3 \otimes e_7$	{1478, 178, 4567, 567}
953:4	$0, 0, 0, 0, \frac{2}{2289}\sqrt{47906}e^{12}, \frac{2}{2289}\sqrt{43679}e^{13}, \frac{8}{2289}\sqrt{80313}e^{25},$ $\frac{2}{2289}\sqrt{42270}e^{15} + \frac{2}{2289}\sqrt{249393}e^{23}, \frac{4}{2289}\sqrt{77495}e^{16}$	$(\frac{23}{327}, -\frac{115}{763}, \frac{46}{327}, 1, -\frac{184}{2289}, \frac{23}{109}, -\frac{529}{2289}, -\frac{23}{2289}, \frac{92}{327})$ $+\frac{2}{2289}\sqrt{2627785}e^4 \otimes e_7$	{1267, 15678, 245, 48}
953:4	$0, 0, 0, 0, \frac{1}{567}\sqrt{140070}e^{12}, \frac{1}{567}\sqrt{118726}e^{13}, \frac{2}{189}\sqrt{2001}e^{25},$ $\frac{1}{567}\sqrt{164082}e^{15} + \frac{2}{567}\sqrt{20677}e^{23}, \frac{1}{567}\sqrt{353510}e^{16}$	$(-\frac{25}{567}, \frac{10}{63}, -\frac{50}{567}, 1, \frac{65}{567}, -\frac{25}{189}, \frac{155}{567}, \frac{40}{567}, -\frac{100}{567})$ $+\frac{2}{567}\sqrt{155411}e^4 \otimes e_9$	{124568, 146, 2478, 457}
953:4	$0, 0, 0, 0, \frac{17}{1381}\sqrt{166}e^{12}, \frac{17}{1381}\sqrt{670}e^{13}, \frac{17}{1381}\sqrt{962}e^{25},$ $\frac{17}{1381}\sqrt{834}e^{15} + \frac{17}{1381}\sqrt{710}e^{23}, \frac{34}{1381}\sqrt{105}e^{16}$	$(\frac{85}{1381}, -\frac{102}{1381}, \frac{170}{1381}, -\frac{391}{1381}, -\frac{17}{1381}, \frac{255}{1381}, -\frac{119}{1381}, \frac{68}{1381}, \frac{340}{1381})$ $+\frac{17}{1381}\sqrt{1042}e^2 \otimes e_4 + \frac{34}{1381}\sqrt{365}e^3 \otimes e_7$	{278, 457}
953:4	$0, 0, 0, 0, \frac{1}{875}\sqrt{1526}e^{12}, \frac{3}{875}\sqrt{14}e^{13}, \frac{8}{875}\sqrt{70}e^{25},$ $\frac{1}{875}\sqrt{4858}e^{15} + \frac{2}{875}\sqrt{917}e^{23}, \frac{2}{125}\sqrt{22}e^{16}$	$(-\frac{3}{875}, -\frac{1}{175}, -\frac{6}{875}, \frac{74}{875}, -\frac{8}{875}, \frac{9}{875}, -\frac{13}{875}, \frac{11}{875}, -\frac{12}{875})$ $+\frac{1}{875}\sqrt{5698}e^3 \otimes e_7 + \frac{2}{875}\sqrt{1379}e^2 \otimes e_9$	{2478, 278}
953:4	$0, 0, 0, 0, \frac{210}{683}e^{12}, \frac{60}{683}\sqrt{7}e^{13}, \frac{20}{683}\sqrt{119}e^{25},$ $\frac{5}{683}\sqrt{434}e^{15} + \frac{5}{683}\sqrt{518}e^{23}, \frac{70}{683}\sqrt{14}e^{16}$	$(-\frac{15}{683}, \frac{115}{683}, -\frac{30}{683}, -\frac{190}{683}, \frac{100}{683}, -\frac{45}{683}, \frac{215}{683}, \frac{85}{683}, -\frac{60}{683})$ $+\frac{5}{683}\sqrt{3766}e^1 \otimes e_4 + \frac{5}{683}\sqrt{4690}e^2 \otimes e_9$	{135789, 34689}
953:4	$0, 0, 0, 0, \frac{1}{287}\sqrt{45034}e^{12}, \frac{5}{287}\sqrt{506}e^{13}, \frac{13}{287}\sqrt{253}e^{25},$ $\frac{1}{287}\sqrt{9614}e^{15} + \frac{1}{287}\sqrt{26565}e^{23}, \frac{1}{287}\sqrt{3795}e^{16}$	$(\frac{10}{287}, \frac{61}{287}, \frac{20}{287}, -\frac{192}{287}, \frac{71}{287}, \frac{30}{287}, \frac{132}{287}, \frac{81}{287}, \frac{40}{287})$ $+\frac{1}{287}\sqrt{121187}e^2 \otimes e_4$	{123679, 13456789, 2359, 3489}
953:4	$0, 0, 0, 0, \frac{7}{103}\sqrt{10}e^{12}, \frac{1}{103}\sqrt{2730}e^{13}, \frac{4}{103}\sqrt{105}e^{25},$ $\frac{5}{103}\sqrt{42}e^{15} + \frac{4}{103}\sqrt{35}e^{23}, \frac{4}{103}\sqrt{105}e^{16}$	$(\frac{9}{103}, -\frac{13}{103}, \frac{18}{103}, -\frac{26}{103}, -\frac{4}{103}, \frac{27}{103}, -\frac{17}{103}, \frac{5}{103}, \frac{36}{103})$ $+\frac{1}{103}\sqrt{3710}e^3 \otimes e_7 + \frac{2}{103}\sqrt{665}e^1 \otimes e_4$	{2478, 457}
953:4	$0, 0, 0, 0, \frac{123}{5989}\sqrt{390}e^{12}, \frac{41}{5989}\sqrt{4470}e^{13}, \frac{410}{5989}\sqrt{33}e^{25},$ $\frac{41}{5989}\sqrt{4610}e^{15} + \frac{82}{5989}\sqrt{705}e^{23}, \frac{1107}{5989}\sqrt{6}e^{16}$	$(\frac{205}{5989}, -\frac{738}{5989}, \frac{410}{5989}, \frac{2501}{5989}, -\frac{533}{5989}, \frac{615}{5989}, -\frac{1271}{5989}, -\frac{328}{5989}, \frac{820}{5989})$ $+\frac{328}{5989}\sqrt{109}e^3 \otimes e_7 + \frac{82}{5989}\sqrt{967}e^4 \otimes e_9$	{2478, 457}
953:4	$0, 0, 0, 0, \frac{5}{127}\sqrt{39}e^{12}, \frac{30}{127}e^{13}, \frac{5}{127}\sqrt{73}e^{25},$ $\frac{15}{127}\sqrt{3}e^{15} + \frac{15}{127}\sqrt{17}e^{23}, \frac{5}{127}\sqrt{111}e^{16}$	$(-\frac{15}{254}, \frac{20}{127}, -\frac{15}{127}, \frac{55}{127}, \frac{25}{254}, -\frac{45}{254}, \frac{65}{254}, \frac{5}{127}, -\frac{30}{127})$ $+\frac{5}{127}\sqrt{163}e^4 \otimes e_8 + \frac{60}{127}\sqrt{2}e^2 \otimes e_9$	{123467, 2345}
953:4	$0, 0, 0, 0, \frac{3}{566}\sqrt{12390}e^{12}, \frac{15}{566}\sqrt{770}e^{13}, \frac{18}{283}\sqrt{105}e^{25},$ $\frac{3}{566}\sqrt{17430}e^{15} + \frac{3}{566}\sqrt{11690}e^{23}, \frac{3}{566}\sqrt{11795}e^{16}$	$(\frac{31}{283}, -\frac{253}{1132}, \frac{62}{283}, \frac{159}{1132}, -\frac{129}{1132}, \frac{93}{283}, -\frac{191}{566}, -\frac{5}{1132}, \frac{124}{283})$ $+\frac{21}{566}\sqrt{695}e^3 \otimes e_7$	{2478, 278, 457, 57}
953:4	$0, 0, 0, 0, \frac{30}{2341}\sqrt{2555}e^{12}, \frac{10}{2341}\sqrt{18165}e^{13}, \frac{10}{2341}\sqrt{3045}e^{25},$ $\frac{20}{2341}\sqrt{5495}e^{15} + \frac{10}{2341}\sqrt{17535}e^{23}, \frac{40}{2341}\sqrt{770}e^{16}$	$(\frac{185}{2341}, \frac{145}{2341}, \frac{370}{2341}, -\frac{1565}{2341}, \frac{330}{2341}, \frac{555}{2341}, \frac{475}{2341}, \frac{515}{2341}, \frac{740}{2341})$ $+\frac{210}{2341}\sqrt{155}e^1 \otimes e_4$	{123789, 13579, 2345689, 3469}
953:4	$0, 0, 0, 0, \frac{38}{821}\sqrt{87}e^{12}, \frac{19}{821}\sqrt{438}e^{13}, \frac{19}{821}\sqrt{322}e^{25},$ $\frac{190}{821}\sqrt{3}e^{15} + \frac{19}{821}\sqrt{510}e^{23}, \frac{38}{821}\sqrt{69}e^{16}$	$(\frac{57}{821}, -\frac{152}{821}, \frac{114}{821}, \frac{323}{821}, -\frac{95}{821}, \frac{171}{821}, -\frac{247}{821}, -\frac{38}{821}, \frac{228}{821})$ $+\frac{19}{821}\sqrt{466}e^4 \otimes e_8 + \frac{38}{821}\sqrt{249}e^3 \otimes e_7$	{278, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:4	$0, 0, 0, 0, \frac{16}{2351}\sqrt{2478}e^{12}, \frac{16}{2351}\sqrt{609}e^{13}, \frac{8}{2351}\sqrt{33474}e^{25},$ $\frac{48}{2351}\sqrt{805}e^{15} + \frac{80}{2351}\sqrt{273}e^{23}, \frac{8}{2351}\sqrt{39270}e^{16}$	$(-\frac{169}{2351}, \frac{668}{2351}, -\frac{338}{2351}, \frac{370}{2351}, \frac{499}{2351}, -\frac{507}{2351}, \frac{1167}{2351}, \frac{330}{2351}, -\frac{676}{2351})$ $+\frac{56}{2351}\sqrt{1698}e^2 \otimes e_9$	{1345789, 135789, 34689, 3689}
953:4	$0, 0, 0, 0, \frac{83}{277}\sqrt{6}e^{12}, \frac{4}{277}\sqrt{3486}e^{13}, \frac{6}{277}\sqrt{83}e^{25},$ $\frac{1}{277}\sqrt{42330}e^{15} + \frac{1}{277}\sqrt{54282}e^{23}, \frac{2}{277}\sqrt{8715}e^{16}$	$(\frac{28}{277}, \frac{10}{277}, \frac{56}{277}, -\frac{193}{277}, \frac{38}{277}, \frac{84}{277}, \frac{48}{277}, \frac{66}{277}, \frac{112}{277})$ $+\frac{1}{277}\sqrt{117030}e^3 \otimes e_4$	{124568, 146, 2478, 457}
953:4	$0, 0, 0, 0, \frac{43}{2215}\sqrt{866}e^{12}, \frac{86}{2215}\sqrt{17}e^{13}, \frac{43}{2215}\sqrt{4866}e^{25},$ $\frac{43}{2215}\sqrt{366}e^{15} + \frac{43}{2215}\sqrt{1986}e^{23}, \frac{86}{2215}\sqrt{953}e^{16}$	$(-\frac{301}{6645}, \frac{43}{443}, -\frac{602}{6645}, \frac{946}{2215}, \frac{344}{6645}, -\frac{301}{2215}, \frac{989}{6645}, \frac{43}{6645}, -\frac{1204}{6645})$ $+\frac{129}{2215}\sqrt{94}e^2 \otimes e_9 + \frac{43}{6645}\sqrt{4282}e^4 \otimes e_7$	{135789, 34689}
953:4	$0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12}, \frac{3}{25}\sqrt{6}e^{13}, \frac{2}{25}\sqrt{15}e^{25},$ $\frac{4}{25}\sqrt{6}e^{15} + \frac{1}{25}\sqrt{102}e^{23}, \frac{1}{25}\sqrt{102}e^{16}$	$(-\frac{1}{50}, \frac{4}{25}, -\frac{1}{25}, -\frac{7}{25}, \frac{7}{50}, -\frac{3}{50}, \frac{3}{10}, \frac{3}{25}, -\frac{2}{25})$ $+\frac{1}{25}\sqrt{114}e^3 \otimes e_4 + \frac{2}{25}\sqrt{39}e^2 \otimes e_9$	{124568, 2478}
953:4	$0, 0, 0, 0, \frac{1}{133}\sqrt{1407}e^{12}, \frac{6}{133}\sqrt{201}e^{13}, \frac{1}{133}\sqrt{6767}e^{25},$ $\frac{3}{133}\sqrt{1541}e^{15} + \frac{3}{133}\sqrt{1273}e^{23}, \frac{1}{133}\sqrt{3417}e^{16}$	$(\frac{3}{266}, -\frac{4}{133}, \frac{3}{133}, 1, -\frac{5}{266}, \frac{9}{266}, -\frac{13}{266}, -\frac{1}{133}, \frac{6}{133})$ $+\frac{1}{133}\sqrt{30619}e^4 \otimes e_8$	{128, 145, 25678, 467}
953:5	$0, 0, 0, 0, \frac{1}{877}\sqrt{1266}e^{12}, \frac{1}{877}\sqrt{3198}e^{13}, \frac{1}{877}\sqrt{5838}e^{25},$ $\frac{3}{877}\sqrt{322}e^{15} + \frac{3}{877}\sqrt{130}e^{23}, \frac{2}{877}\sqrt{1218}e^{36}$	$(-\frac{3}{877}, -\frac{6}{877}, -\frac{6}{877}, \frac{84}{877}, -\frac{9}{877}, -\frac{9}{877}, -\frac{15}{877}, -\frac{12}{877}, -\frac{15}{877})$ $+\frac{1}{877}\sqrt{6654}e^2 \otimes e_9 + \frac{2}{877}\sqrt{1905}e^3 \otimes e_7$	{23456, 2356}
953:5	$0, 0, 0, 0, \frac{156}{571}\sqrt{7}e^{12}, \frac{12}{571}\sqrt{322}e^{13}, \frac{156}{571}\sqrt{7}e^{25},$ $\frac{12}{571}\sqrt{322}e^{15} + \frac{12}{571}\sqrt{770}e^{23}, \frac{12}{571}\sqrt{35}e^{36}$	$(\frac{18}{571}, \frac{123}{571}, \frac{36}{571}, -\frac{381}{571}, \frac{141}{571}, \frac{54}{571}, \frac{264}{571}, \frac{159}{571}, \frac{90}{571})$ $+\frac{168}{571}\sqrt{17}e^2 \otimes e_4$	{123679, 13456789, 235, 348}
953:5	$0, 0, 0, 0, \frac{34}{301}\sqrt{33}e^{12}, \frac{1}{301}\sqrt{5610}e^{13}, \frac{34}{301}\sqrt{33}e^{25},$ $\frac{1}{301}\sqrt{5610}e^{15} + \frac{2}{301}\sqrt{935}e^{23}, \frac{1}{301}\sqrt{36278}e^{36}$	$(-\frac{20}{301}, \frac{87}{301}, -\frac{40}{301}, \frac{52}{301}, \frac{67}{301}, -\frac{60}{301}, \frac{22}{301}, \frac{47}{301}, -\frac{100}{301})$ $+\frac{1}{301}\sqrt{93126}e^2 \otimes e_9$	{123467, 12367, 3489, 389}
953:5	$0, 0, 0, 0, \frac{20}{481}\sqrt{51}e^{12}, \frac{60}{481}\sqrt{14}e^{13}, \frac{20}{481}\sqrt{109}e^{25},$ $\frac{80}{481}\sqrt{3}e^{15} + \frac{40}{481}\sqrt{21}e^{23}, \frac{20}{481}\sqrt{93}e^{36}$	$(\frac{30}{481}, -\frac{85}{481}, \frac{60}{481}, \frac{175}{481}, -\frac{55}{481}, \frac{90}{481}, \frac{140}{481}, -\frac{25}{481}, \frac{150}{481})$ $+\frac{20}{481}\sqrt{118}e^4 \otimes e_8 + \frac{60}{481}\sqrt{34}e^3 \otimes e_7$	{278, 457}
953:5	$0, 0, 0, 0, \frac{51}{509}\sqrt{14}e^{12}, \frac{3}{509}\sqrt{102}e^{13}, \frac{51}{509}\sqrt{22}e^{25},$ $\frac{3}{509}\sqrt{1258}e^{15} + \frac{3}{509}\sqrt{510}e^{23}, \frac{6}{509}\sqrt{1003}e^{36}$	$(-\frac{21}{509}, \frac{48}{509}, -\frac{42}{509}, \frac{228}{509}, \frac{27}{509}, -\frac{63}{509}, \frac{75}{509}, \frac{6}{509}, -\frac{105}{509})$ $+\frac{102}{509}\sqrt{5}e^4 \otimes e_7 + \frac{3}{509}\sqrt{9554}e^2 \otimes e_9$	{127, 4689}
953:5	$0, 0, 0, 0, \frac{376}{5327}\sqrt{33}e^{12}, \frac{141}{5327}\sqrt{138}e^{13}, \frac{94}{5327}\sqrt{346}e^{25},$ $\frac{47}{5327}\sqrt{942}e^{15} + \frac{376}{5327}\sqrt{30}e^{23}, \frac{47}{5327}\sqrt{1698}e^{36}$	$(-\frac{282}{5327}, \frac{799}{5327}, -\frac{564}{5327}, \frac{2444}{5327}, \frac{517}{5327}, -\frac{846}{5327}, \frac{188}{5327}, \frac{235}{5327}, -\frac{1410}{5327})$ $+\frac{1457}{5327}\sqrt{6}e^2 \otimes e_9 + \frac{94}{5327}\sqrt{910}e^4 \otimes e_8$	{1278, 469}
953:5	$0, 0, 0, 0, \frac{12}{2957}\sqrt{33082}e^{12}, \frac{102}{2957}\sqrt{238}e^{13}, \frac{12}{2957}\sqrt{3927}e^{25},$ $\frac{12}{2957}\sqrt{31773}e^{15} + \frac{6}{2957}\sqrt{113883}e^{23}, \frac{12}{2957}\sqrt{14518}e^{36}$	$(\frac{199}{2957}, \frac{220}{2957}, \frac{398}{2957}, -\frac{1943}{2957}, \frac{419}{2957}, \frac{597}{2957}, \frac{639}{2957}, \frac{618}{2957}, \frac{995}{2957})$ $+\frac{210}{2957}\sqrt{238}e^1 \otimes e_4$	{123789, 13579, 234568, 346}
953:5	$0, 0, 0, 0, \frac{12}{2887}\sqrt{6981}e^{12}, \frac{12}{2887}\sqrt{24702}e^{13}, \frac{60}{2887}\sqrt{895}e^{25},$ $\frac{44}{2887}\sqrt{1074}e^{15} + \frac{4}{2887}\sqrt{42602}e^{23}, \frac{4}{2887}\sqrt{158057}e^{36}$	$(\frac{262}{2887}, -\frac{585}{2887}, \frac{524}{2887}, \frac{427}{2887}, -\frac{323}{2887}, \frac{786}{2887}, -\frac{908}{2887}, -\frac{61}{2887}, \frac{1310}{2887})$ $+\frac{8}{2887}\sqrt{110085}e^3 \otimes e_7$	{2478, 278, 457, 57}
953:5	$0, 0, 0, 0, \frac{4}{117}\sqrt{213}e^{12}, \frac{4}{117}\sqrt{142}e^{13}, \frac{4}{117}\sqrt{213}e^{25},$ $\frac{4}{117}\sqrt{142}e^{15} + \frac{2}{117}\sqrt{1491}e^{23}, \frac{2}{117}\sqrt{3266}e^{36}$	$(-\frac{5}{117}, \frac{20}{117}, -\frac{10}{117}, 1, \frac{5}{39}, -\frac{5}{39}, \frac{35}{117}, \frac{10}{117}, -\frac{25}{117})$ $+\frac{2}{117}\sqrt{6674}e^4 \otimes e_9$	{123789, 13579, 234568, 346}
953:5	$0, 0, 0, 0, \frac{2}{2877}\sqrt{395726}e^{12}, \frac{34}{959}\sqrt{206}e^{13}, \frac{2}{2877}\sqrt{2027658}e^{25},$ $\frac{8}{2877}\sqrt{17510}e^{15} + \frac{2}{2877}\sqrt{765187}e^{23}, \frac{2}{2877}\sqrt{143582}e^{36}$	$(\frac{25}{411}, -\frac{400}{2877}, \frac{50}{411}, 1, -\frac{75}{959}, \frac{25}{137}, -\frac{625}{2877}, -\frac{50}{2877}, \frac{125}{411})$ $+\frac{2}{2877}\sqrt{4079830}e^4 \otimes e_7$	{12679, 156789, 245, 48}
953:5	$0, 0, 0, 0, \frac{9}{424}\sqrt{26}e^{12}, \frac{9}{424}\sqrt{190}e^{13}, \frac{9}{848}\sqrt{1202}e^{25},$ $\frac{9}{106}\sqrt{11}e^{15} + \frac{63}{848}\sqrt{10}e^{23}, \frac{9}{212}\sqrt{35}e^{36}$	$(\frac{45}{848}, -\frac{117}{1696}, \frac{45}{424}, -\frac{441}{1696}, -\frac{27}{1696}, \frac{135}{848}, -\frac{9}{106}, \frac{63}{1696}, \frac{225}{848})$ $+\frac{9}{848}\sqrt{1222}e^2 \otimes e_4 + \frac{9}{848}\sqrt{1830}e^3 \otimes e_7$	{2356, 3468}
953:5	$0, 0, 0, 0, \frac{42}{389}\sqrt{5}e^{12}, \frac{98}{389}e^{13}, \frac{28}{389}\sqrt{19}e^{25},$ $\frac{28}{389}\sqrt{11}e^{15} + \frac{70}{389}\sqrt{2}e^{23}, \frac{14}{389}\sqrt{113}e^{36}$	$(-\frac{7}{389}, \frac{63}{389}, -\frac{14}{389}, -\frac{112}{389}, \frac{56}{389}, -\frac{21}{389}, \frac{119}{389}, \frac{49}{389}, -\frac{35}{389})$ $+\frac{14}{389}\sqrt{155}e^3 \otimes e_4 + \frac{14}{389}\sqrt{191}e^2 \otimes e_9$	{135789, 2356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:5	$0, 0, 0, 0, \frac{123}{6293}\sqrt{502}e^{12}, \frac{779}{6293}\sqrt{2}e^{13}, \frac{41}{6293}\sqrt{2446}e^{25},$ $\frac{41}{6293}\sqrt{1758}e^{15} + \frac{533}{6293}\sqrt{10}e^{23}, \frac{82}{6293}\sqrt{758}e^{36}$	$(-\frac{123}{6293}, \frac{1066}{6293}, -\frac{246}{6293}, -\frac{1804}{6293}, \frac{943}{6293}, -\frac{369}{6293}, \frac{287}{899}, \frac{820}{6293}, -\frac{615}{6293})$ $+\frac{41}{6293}\sqrt{5834}e^2 \otimes e_9 + \frac{82}{6293}\sqrt{1295}e^1 \otimes e_4$	{13579, 234568}
953:5	$0, 0, 0, 0, \frac{54}{1565}\sqrt{30}e^{12}, \frac{9}{1565}\sqrt{4890}e^{13}, \frac{9}{1565}\sqrt{4530}e^{25},$ $\frac{9}{1565}\sqrt{2590}e^{15} + \frac{18}{1565}\sqrt{5}e^{23}, \frac{9}{1565}\sqrt{5210}e^{36}$	$(\frac{9}{313}, -\frac{36}{313}, \frac{18}{313}, \frac{126}{313}, -\frac{27}{313}, \frac{27}{313}, -\frac{63}{313}, -\frac{18}{313}, \frac{45}{313})$ $+\frac{9}{1565}\sqrt{4630}e^4 \otimes e_9 + \frac{9}{313}\sqrt{374}e^3 \otimes e_7$	{2478, 457}
953:5	$0, 0, 0, 0, \frac{8}{1409}\sqrt{7194}e^{12}, \frac{12}{1409}\sqrt{8393}e^{13}, \frac{3}{1409}\sqrt{11990}e^{25},$ $\frac{3}{1409}\sqrt{55154}e^{15} + \frac{4}{1409}\sqrt{44363}e^{23}, \frac{1}{1409}\sqrt{889658}e^{36}$	$(\frac{119}{1409}, \frac{75}{1409}, \frac{238}{1409}, \frac{961}{1409}, \frac{194}{1409}, \frac{357}{1409}, \frac{269}{1409}, \frac{313}{1409}, \frac{595}{1409})$ $+\frac{1}{1409}\sqrt{2841630}e^3 \otimes e_4$	{1245689, 1469, 2478, 457}
953:5	$0, 0, 0, 0, \frac{4}{2623}\sqrt{16881}e^{12}, \frac{36}{2623}\sqrt{1986}e^{13}, \frac{4}{2623}\sqrt{166493}e^{25},$ $\frac{4}{2623}\sqrt{287970}e^{15} + \frac{4}{2623}\sqrt{331662}e^{23}, \frac{4}{2623}\sqrt{70503}e^{36}$	$(\frac{30}{2623}, -\frac{85}{2623}, \frac{60}{2623}, 1, -\frac{55}{2623}, \frac{90}{2623}, -\frac{140}{2623}, -\frac{25}{2623}, \frac{150}{2623})$ $+\frac{8}{2623}\sqrt{187015}e^4 \otimes e_8$	{12345679, 136789, 234, 358}
953:5	$0, 0, 0, 0, \frac{148}{4541}\sqrt{41}e^{12}, \frac{74}{4541}\sqrt{771}e^{13}, \frac{37}{4541}\sqrt{2238}e^{25},$ $\frac{111}{4541}\sqrt{10}e^{15} + \frac{148}{4541}\sqrt{46}e^{23}, \frac{148}{4541}\sqrt{138}e^{36}$	$(\frac{333}{4541}, -\frac{518}{4541}, \frac{666}{4541}, -\frac{1036}{4541}, -\frac{185}{4541}, \frac{999}{4541}, -\frac{37}{239}, \frac{148}{4541}, \frac{1665}{4541})$ $+\frac{37}{4541}\sqrt{3194}e^1 \otimes e_4 + \frac{37}{4541}\sqrt{4766}e^3 \otimes e_7$	{12679, 156789}
953:6	$0, 0, 0, 0, \frac{8}{2239}\sqrt{56434}e^{12}, \frac{8}{2239}\sqrt{8990}e^{13}, \frac{8}{2239}\sqrt{10382}e^{15},$ $\frac{8}{2239}\sqrt{57478}e^{25}, \frac{16}{2239}\sqrt{435}e^{16} + \frac{8}{2239}\sqrt{32190}e^{24}$	$(-\frac{340}{2239}, \frac{830}{2239}, \frac{484}{2239}, \frac{1026}{2239}, \frac{490}{2239}, \frac{144}{2239}, \frac{150}{2239}, \frac{1320}{2239}, -\frac{196}{2239})$ $+\frac{16}{2239}\sqrt{27695}e^2 \otimes e_4$	{12368, 1345678, 235, 347}
953:6	$0, 0, 0, 0, \frac{20}{333}\sqrt{23}e^{12}, \frac{20}{333}\sqrt{57}e^{13}, \frac{20}{333}\sqrt{39}e^{15}, \frac{20}{111}\sqrt{3}e^{25},$ $\frac{20}{333}\sqrt{14}e^{16} + \frac{20}{333}\sqrt{65}e^{24}$	$(-\frac{20}{333}, -\frac{10}{111}, \frac{130}{333}, \frac{40}{111}, -\frac{50}{333}, \frac{110}{333}, -\frac{70}{333}, -\frac{80}{333}, \frac{10}{37})$ $+\frac{20}{333}\sqrt{146}e^4 \otimes e_8 + \frac{40}{333}\sqrt{37}e^3 \otimes e_7$	{12345, 14679}
953:6	$0, 0, 0, 0, \frac{1}{144}\sqrt{1902}e^{12}, \frac{1}{288}\sqrt{45014}e^{13}, \frac{1}{288}\sqrt{55158}e^{15}, \frac{1}{72}\sqrt{951}e^{25},$ $\frac{1}{144}\sqrt{3170}e^{16} + \frac{1}{288}\sqrt{22507}e^{24}$	$(-\frac{151}{576}, \frac{17}{96}, \frac{217}{288}, \frac{5}{96}, -\frac{49}{576}, \frac{283}{576}, -\frac{25}{72}, \frac{53}{576}, \frac{11}{48})$ $+\frac{5}{288}\sqrt{6023}e^3 \otimes e_7$	{123458, 146789, 2346, 4579}
953:6	$0, 0, 0, 0, \frac{25}{533}\sqrt{130}e^{12}, \frac{75}{533}\sqrt{3}e^{13}, \frac{25}{533}\sqrt{41}e^{15}, \frac{25}{1066}\sqrt{478}e^{25},$ $\frac{25}{1066}\sqrt{70}e^{16} + \frac{25}{1066}\sqrt{227}e^{24}$	$(-\frac{475}{2132}, \frac{150}{533}, \frac{225}{533}, -\frac{25}{82}, \frac{125}{2132}, \frac{425}{2132}, -\frac{175}{1066}, \frac{725}{2132}, -\frac{25}{1066})$ $+\frac{25}{1066}\sqrt{761}e^3 \otimes e_7 + \frac{25}{533}\sqrt{281}e^2 \otimes e_4$	{13458, 346}
953:6	$0, 0, 0, 0, \frac{18}{1367}\sqrt{302}e^{12}, \frac{18}{1367}\sqrt{674}e^{13}, \frac{90}{1367}\sqrt{30}e^{15},$ $\frac{18}{1367}\sqrt{1370}e^{25}, \frac{18}{1367}\sqrt{434}e^{16} + \frac{18}{1367}\sqrt{626}e^{24}$	$(-\frac{216}{1367}, \frac{171}{1367}, \frac{450}{1367}, -\frac{153}{1367}, -\frac{45}{1367}, \frac{234}{1367}, -\frac{261}{1367}, \frac{126}{1367}, \frac{18}{1367})$ $+\frac{18}{1367}\sqrt{1346}e^3 \otimes e_8 + \frac{36}{1367}\sqrt{290}e^2 \otimes e_4$	{1268, 145678}
953:6	$0, 0, 0, 0, \frac{32}{145}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{4}{145}\sqrt{115}e^{15}, \frac{8}{145}\sqrt{35}e^{25},$ $\frac{4}{145}\sqrt{35}e^{16} + \frac{4}{145}\sqrt{145}e^{24}$	$(\frac{2}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{5}{29}, \frac{5}{29}, -\frac{4}{29}, \frac{7}{29}, \frac{8}{29}, -\frac{2}{29})$ $+\frac{4}{145}\sqrt{330}e^2 \otimes e_4 + \frac{4}{145}\sqrt{335}e^1 \otimes e_3$	{2357, 34}
953:6	$0, 0, 0, 0, \frac{4}{2331}\sqrt{52003}e^{12}, \frac{4}{2331}\sqrt{81073}e^{13}, \frac{76}{2331}\sqrt{17}e^{15},$ $\frac{4}{2331}\sqrt{204459}e^{25}, \frac{20}{2331}\sqrt{646}e^{16} + \frac{4}{777}\sqrt{21641}e^{24}$	$(\frac{452}{2331}, -\frac{218}{777}, \frac{170}{2331}, \frac{192}{259}, -\frac{202}{2331}, \frac{622}{2331}, \frac{250}{2331}, -\frac{856}{2331}, \frac{358}{777})$ $+\frac{4}{2331}\sqrt{616930}e^4 \otimes e_8$	{124567, 1349, 236789, 58}
953:6	$0, 0, 0, 0, \frac{16}{569}\sqrt{115}e^{12}, \frac{16}{569}\sqrt{133}e^{13}, \frac{16}{569}\sqrt{321}e^{15}, \frac{16}{569}\sqrt{149}e^{25},$ $\frac{64}{569}\sqrt{7}e^{16} + \frac{16}{569}\sqrt{163}e^{24}$	$(\frac{72}{569}, -\frac{92}{569}, -\frac{56}{569}, \frac{180}{569}, -\frac{20}{569}, \frac{16}{569}, \frac{52}{569}, -\frac{112}{569}, \frac{88}{569})$ $+\frac{16}{569}\sqrt{226}e^1 \otimes e_3 + \frac{48}{569}\sqrt{34}e^4 \otimes e_7$	{235789, 3489}
953:6	$0, 0, 0, 0, \frac{38}{47}e^{12}, \frac{2}{47}\sqrt{190}e^{13}, \frac{6}{47}\sqrt{38}e^{15}, \frac{2}{47}\sqrt{38}e^{25},$ $\frac{2}{47}\sqrt{95}e^{16} + \frac{2}{47}\sqrt{95}e^{24}$	$(\frac{15}{47}, -\frac{5}{47}, -\frac{23}{47}, \frac{12}{47}, \frac{10}{47}, -\frac{8}{47}, \frac{25}{47}, \frac{5}{47}, \frac{7}{47})$ $+\frac{4}{47}\sqrt{190}e^1 \otimes e_3$	{12479, 159, 23578, 348}
953:6	$0, 0, 0, 0, \frac{40}{2071}\sqrt{111}e^{12}, \frac{8}{2071}\sqrt{15207}e^{13}, \frac{24}{2071}\sqrt{5587}e^{15},$ $\frac{8}{2071}\sqrt{29045}e^{25}, \frac{72}{2071}\sqrt{370}e^{16} + \frac{24}{2071}\sqrt{4921}e^{24}$	$(-\frac{12}{2071}, -\frac{286}{2071}, \frac{612}{2071}, \frac{46}{109}, -\frac{298}{2071}, \frac{600}{2071}, -\frac{310}{2071}, -\frac{584}{2071}, \frac{588}{2071})$ $+\frac{8}{2071}\sqrt{69190}e^4 \otimes e_7$	{123679, 134569, 235789, 3489}
953:6	$0, 0, 0, 0, \frac{38}{113}\sqrt{2}e^{12}, \frac{2}{113}\sqrt{2242}e^{13}, \frac{6}{113}\sqrt{190}e^{15}, \frac{2}{113}\sqrt{2242}e^{25},$ $\frac{2}{113}\sqrt{1254}e^{16} + \frac{38}{113}\sqrt{2}e^{24}$	$(-\frac{12}{113}, -\frac{5}{113}, \frac{54}{113}, \frac{35}{113}, -\frac{17}{113}, \frac{42}{113}, -\frac{29}{113}, -\frac{22}{113}, \frac{30}{113})$ $+\frac{2}{113}\sqrt{3686}e^3 \otimes e_8$	{1234579, 139, 278, 458}
953:6	$0, 0, 0, 0, \frac{50}{2153}\sqrt{470}e^{12}, \frac{50}{2153}\sqrt{218}e^{13}, \frac{50}{2153}\sqrt{442}e^{15},$ $\frac{50}{2153}\sqrt{161}e^{25}, \frac{100}{2153}\sqrt{35}e^{16} + \frac{50}{2153}\sqrt{77}e^{24}$	$(\frac{575}{2153}, -\frac{450}{2153}, -\frac{675}{2153}, \frac{925}{2153}, \frac{125}{2153}, -\frac{100}{2153}, \frac{700}{2153}, -\frac{325}{2153}, \frac{475}{2153})$ $+\frac{100}{2153}\sqrt{186}e^4 \otimes e_8 + \frac{50}{2153}\sqrt{1151}e^1 \otimes e_3$	{12789, 23457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:6	$0, 0, 0, 0, \frac{2}{21}\sqrt{6}e^{12}, \frac{2}{21}\sqrt{30}e^{13}, \frac{2}{7}\sqrt{10}e^{15}, \frac{2}{7}\sqrt{6}e^{25},$ $\frac{2}{7}\sqrt{6}e^{16} + \frac{2}{21}\sqrt{78}e^{24}$	$(0, -\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{21}\sqrt{6}e^3 \otimes e_8 + \frac{4}{21}\sqrt{30}e^4 \otimes e_7$	{235789, 3489}
953:7	$0, 0, 0, 0, \frac{140}{5869}\sqrt{89}e^{12}, \frac{210}{5869}\sqrt{115}e^{13}, \frac{35}{5869}\sqrt{678}e^{15},$ $\frac{35}{5869}\sqrt{2238}e^{25}, \frac{140}{5869}\sqrt{174}e^{14} + \frac{280}{5869}\sqrt{53}e^{36}$	$(\frac{1085}{5869}, -\frac{1190}{5869}, -\frac{70}{5869}, -\frac{140}{5869}, -\frac{105}{5869}, \frac{1015}{5869}, \frac{980}{5869}, -\frac{1295}{5869}, \frac{945}{5869})$ $+ \frac{35}{5869}\sqrt{4346}e^1 \otimes e_4 + \frac{35}{5869}\sqrt{6110}e^3 \otimes e_8$	{234567, 346}
953:7	$0, 0, 0, 0, \frac{6}{211}\sqrt{155}e^{12}, \frac{24}{211}\sqrt{6}e^{13}, \frac{6}{211}\sqrt{17}e^{15}, \frac{18}{211}\sqrt{21}e^{25},$ $\frac{6}{211}\sqrt{215}e^{14} + \frac{6}{211}\sqrt{123}e^{36}$	$(-\frac{48}{211}, \frac{60}{211}, \frac{18}{211}, \frac{36}{211}, \frac{12}{211}, \frac{30}{211}, \frac{36}{211}, \frac{72}{211}, -\frac{12}{211})$ $+ \frac{12}{211}\sqrt{65}e^4 \otimes e_7 + \frac{6}{211}\sqrt{485}e^2 \otimes e_9$	{349, 469}
953:7	$0, 0, 0, 0, \frac{3}{274}\sqrt{97}e^{12}, \frac{3}{137}\sqrt{15}e^{13}, \frac{3}{274}\sqrt{233}e^{15}, \frac{3}{274}\sqrt{443}e^{25},$ $\frac{27}{274}\sqrt{5}e^{14} + \frac{3}{274}\sqrt{77}e^{36}$	$(-\frac{15}{137}, \frac{12}{137}, \frac{9}{137}, \frac{18}{137}, -\frac{3}{137}, -\frac{6}{137}, -\frac{18}{137}, \frac{9}{137}, \frac{3}{137})$ $+ \frac{3}{137}\sqrt{115}e^4 \otimes e_8 + \frac{3}{274}\sqrt{547}e^2 \otimes e_9$	{3479, 4679}
953:7	$0, 0, 0, 0, \frac{15}{34}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{5}{34}\sqrt{3}e^{15}, \frac{1}{34}\sqrt{115}e^{25},$ $\frac{1}{34}\sqrt{15}e^{14} + \frac{1}{34}\sqrt{145}e^{36}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, \frac{5}{17}, -\frac{3}{17})$ $+ \frac{1}{17}\sqrt{65}e^1 \otimes e_4 + \frac{1}{34}\sqrt{335}e^2 \otimes e_9$	{234567, 2457}
953:7	$0, 0, 0, 0, \frac{195}{3389}\sqrt{14}e^{12}, \frac{78}{3389}\sqrt{655}e^{13}, \frac{78}{3389}\sqrt{214}e^{15},$ $\frac{156}{3389}\sqrt{143}e^{25}, \frac{39}{3389}\sqrt{646}e^{14} + \frac{39}{3389}\sqrt{2218}e^{36}$	$(\frac{78}{3389}, -\frac{507}{3389}, \frac{585}{3389}, \frac{1170}{3389}, -\frac{429}{3389}, \frac{663}{3389}, \frac{351}{3389}, -\frac{936}{3389}, \frac{1248}{3389})$ $+ \frac{39}{3389}\sqrt{770}e^4 \otimes e_7 + \frac{78}{3389}\sqrt{1271}e^3 \otimes e_8$	{1349, 458}
953:7	$0, 0, 0, 0, \frac{5}{9501}\sqrt{4006}e^{12}, \frac{5}{9501}\sqrt{4730}e^{13}, \frac{5}{9501}\sqrt{7782}e^{15},$ $\frac{5}{9501}\sqrt{2098}e^{25}, \frac{40}{9501}\sqrt{109}e^{14} + \frac{5}{9501}\sqrt{5898}e^{36}$	$(\frac{115}{9501}, -\frac{70}{3167}, \frac{15}{3167}, \frac{30}{3167}, -\frac{95}{9501}, \frac{160}{9501}, \frac{20}{9501}, -\frac{305}{9501}, \frac{205}{9501})$ $+ \frac{10}{9501}\sqrt{2071}e^1 \otimes e_4 + \frac{5}{9501}\sqrt{9230}e^3 \otimes e_7$	{24578, 3468}
953:7	$0, 0, 0, 0, \frac{9}{293}\sqrt{103}e^{12}, \frac{9}{293}\sqrt{62}e^{13}, \frac{9}{293}\sqrt{69}e^{15}, \frac{9}{293}\sqrt{89}e^{25},$ $\frac{9}{293}\sqrt{35}e^{14} + \frac{27}{293}\sqrt{23}e^{36}$	$(-\frac{63}{293}, \frac{72}{293}, \frac{27}{293}, \frac{54}{293}, \frac{9}{293}, -\frac{36}{293}, -\frac{54}{293}, \frac{81}{293}, -\frac{9}{293})$ $+ \frac{45}{293}\sqrt{10}e^3 \otimes e_7 + \frac{9}{293}\sqrt{263}e^2 \otimes e_9$	{134589, 2457}
953:7	$0, 0, 0, 0, \frac{2}{2953}\sqrt{436363}e^{12}, \frac{4}{2953}\sqrt{7134}e^{13}, \frac{2}{2953}\sqrt{929798}e^{15},$ $\frac{2}{2953}\sqrt{1480305}e^{25}, \frac{58}{2953}\sqrt{2091}e^{14} + \frac{2}{2953}\sqrt{426851}e^{36}$	$(\frac{48}{2953}, -\frac{476}{2953}, \frac{737}{2953}, \frac{1474}{2953}, -\frac{428}{2953}, \frac{785}{2953}, \frac{380}{2953}, -\frac{904}{2953}, \frac{1522}{2953})$ $+ \frac{2}{2953}\sqrt{3033139}e^4 \otimes e_8$	{123457, 124567, 134, 146}
953:7	$0, 0, 0, 0, \frac{10}{3169}\sqrt{5131}e^{12}, \frac{10}{3169}\sqrt{43247}e^{13}, \frac{2}{3169}\sqrt{434669}e^{15},$ $\frac{2}{3169}\sqrt{919182}e^{25}, \frac{4}{3169}\sqrt{89426}e^{14} + \frac{2}{3169}\sqrt{893527}e^{36}$	$(\frac{243}{3169}, -\frac{617}{3169}, \frac{475}{3169}, \frac{950}{3169}, -\frac{374}{3169}, \frac{718}{3169}, -\frac{131}{3169}, -\frac{991}{3169}, \frac{1193}{3169})$ $+ \frac{2}{3169}\sqrt{1984231}e^3 \otimes e_8$	{1234579, 1349, 2478, 458}
953:7	$0, 0, 0, 0, \frac{33}{2021}\sqrt{34}e^{12}, \frac{33}{2021}\sqrt{898}e^{13}, \frac{33}{2021}\sqrt{794}e^{15}, \frac{363}{2021}\sqrt{2}e^{25},$ $\frac{66}{2021}\sqrt{115}e^{14} + \frac{33}{2021}\sqrt{1174}e^{36}$	$(-\frac{363}{2021}, \frac{132}{2021}, \frac{495}{2021}, \frac{990}{2021}, -\frac{231}{2021}, \frac{132}{2021}, -\frac{594}{2021}, -\frac{99}{2021}, \frac{627}{2021})$ $+ \frac{33}{2021}\sqrt{2522}e^3 \otimes e_7 + \frac{462}{2021}\sqrt{5}e^4 \otimes e_8$	{2457, 346}
953:7	$0, 0, 0, 0, \frac{1}{1573}\sqrt{183214}e^{12}, \frac{3}{1573}\sqrt{96142}e^{13}, \frac{2}{1573}\sqrt{265751}e^{15},$ $\frac{3}{1573}\sqrt{23582}e^{25}, \frac{1}{1573}\sqrt{988630}e^{14} + \frac{2}{1573}\sqrt{320171}e^{36}$	$(-\frac{384}{1573}, \frac{251}{1573}, \frac{30}{1573}, \frac{60}{1573}, -\frac{133}{1573}, \frac{6}{1573}, -\frac{47}{1573}, \frac{118}{1573}, \frac{36}{1573})$ $+ \frac{2}{1573}\sqrt{606783}e^3 \otimes e_7$	{124679, 13459, 24578, 3468}
953:7	$0, 0, 0, 0, \frac{1}{41}\sqrt{517}e^{12}, \frac{2}{41}\sqrt{33}e^{13}, \frac{1}{41}\sqrt{209}e^{15}, \frac{1}{41}\sqrt{671}e^{25},$ $\frac{1}{41}\sqrt{385}e^{14} + \frac{1}{41}\sqrt{473}e^{36}$	$(-\frac{6}{41}, \frac{14}{41}, -\frac{1}{41}, -\frac{2}{41}, \frac{8}{41}, -\frac{7}{41}, \frac{2}{41}, \frac{22}{41}, -\frac{8}{41})$ $+ \frac{1}{41}\sqrt{1507}e^2 \otimes e_9$	{123468, 1248, 3479, 4679}
953:7	$0, 0, 0, 0, \frac{1}{106}\sqrt{42}e^{12}, \frac{1}{53}\sqrt{22}e^{13}, \frac{1}{106}\sqrt{74}e^{15}, \frac{1}{106}\sqrt{166}e^{25},$ $\frac{1}{106}\sqrt{10}e^{14} + \frac{1}{106}\sqrt{138}e^{36}$	$(-\frac{3}{53}, \frac{2}{53}, \frac{2}{53}, \frac{4}{53}, -\frac{1}{53}, -\frac{1}{53}, -\frac{4}{53}, \frac{1}{53}, \frac{1}{53})$ $+ \frac{1}{106}\sqrt{182}e^2 \otimes e_9 + \frac{5}{53}\sqrt{2}e^3 \otimes e_8$	{156789, 2356}
953:7	$0, 0, 0, 0, \frac{1}{1501}\sqrt{16270}e^{12}, \frac{1}{1501}\sqrt{712626}e^{13}, \frac{8}{1501}\sqrt{22778}e^{15},$ $\frac{1}{1501}\sqrt{224526}e^{25}, \frac{1}{1501}\sqrt{1448030}e^{14} + \frac{2}{1501}\sqrt{55318}e^{36}$	$(-\frac{438}{1501}, \frac{305}{1501}, \frac{528}{1501}, \frac{1056}{1501}, -\frac{7}{1501}, \frac{90}{1501}, -\frac{571}{1501}, \frac{172}{1501}, \frac{618}{1501})$ $+ \frac{6}{1501}\sqrt{113890}e^4 \otimes e_7$	{123679, 1279, 23578, 25678}
953:7	$0, 0, 0, 0, \frac{60}{3161}\sqrt{1510}e^{12}, \frac{600}{3161}\sqrt{7}e^{13}, \frac{1080}{3161}\sqrt{5}e^{15},$ $\frac{60}{3161}\sqrt{330}e^{25}, \frac{30}{3161}\sqrt{5115}e^{14} + \frac{30}{3161}\sqrt{2545}e^{36}$	$(\frac{1120}{3161}, -\frac{440}{3161}, -\frac{565}{3161}, -\frac{1130}{3161}, \frac{680}{3161}, \frac{555}{3161}, \frac{1800}{3161}, \frac{240}{3161}, -\frac{10}{3161})$ $+ \frac{30}{3161}\sqrt{13285}e^1 \otimes e_4$	{2345678, 24578, 3468, 48}
953:8	$0, 0, 0, 0, \frac{16}{665}\sqrt{57}e^{12}, \frac{32}{665}\sqrt{85}e^{13}, \frac{16}{665}\sqrt{118}e^{15}, \frac{16}{665}\sqrt{183}e^{25},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{34}$	$(\frac{4}{665}, -\frac{64}{665}, \frac{136}{665}, \frac{8}{665}, -\frac{133}{665}, \frac{19}{665}, -\frac{8}{95}, -\frac{124}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^3 \otimes e_4 - \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{124567, 146, 2478, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:8	$0, 0, 0, 0, \frac{16}{665}\sqrt{57}e^{12}, \frac{32}{665}\sqrt{85}e^{13}, \frac{16}{665}\sqrt{118}e^{15}, \frac{16}{665}\sqrt{183}e^{25},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{34}$	$(\frac{4}{665}, -\frac{64}{665}, \frac{136}{665}, \frac{8}{665}, -\frac{12}{133}, \frac{4}{19}, -\frac{8}{95}, -\frac{124}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^3 \otimes e_4 + \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{124567, 146, 2478, 458}
953:8	$0, 0, 0, 0, \frac{20}{653}\sqrt{107}e^{12}, \frac{10}{653}\sqrt{302}e^{13}, \frac{20}{653}\sqrt{194}e^{15}, \frac{30}{653}\sqrt{22}e^{25},$ $\frac{20}{653}\sqrt{179}e^{16} + \frac{110}{653}\sqrt{10}e^{34}$	$(\frac{20}{653}, -\frac{90}{653}, \frac{150}{653}, \frac{40}{653}, -\frac{70}{653}, \frac{170}{653}, -\frac{50}{653}, -\frac{160}{653}, \frac{190}{653})$ $+ \frac{30}{653}\sqrt{138}e^3 \otimes e_7 + \frac{40}{653}\sqrt{69}e^4 \otimes e_8$	{1278, 135689}
953:8	$0, 0, 0, 0, \frac{8}{41}\sqrt{7}e^{12}, \frac{4}{41}\sqrt{6}e^{13}, \frac{16}{41}\sqrt{5}e^{15}, \frac{12}{41}\sqrt{2}e^{25},$ $\frac{8}{41}\sqrt{13}e^{16} + \frac{4}{41}\sqrt{74}e^{34}$	$(-\frac{6}{41}, \frac{4}{41}, \frac{24}{41}, -\frac{12}{41}, -\frac{2}{41}, \frac{18}{41}, -\frac{8}{41}, \frac{2}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_7$	{127, 13569, 25678, 389}
953:8	$0, 0, 0, 0, \frac{2}{43}\sqrt{165}e^{12}, \frac{2}{43}\sqrt{77}e^{13}, \frac{2}{43}\sqrt{22}e^{15}, \frac{2}{43}\sqrt{165}e^{25},$ $\frac{2}{43}\sqrt{55}e^{16} + \frac{2}{43}\sqrt{165}e^{34}$	$(-\frac{4}{43}, \frac{13}{43}, -\frac{1}{43}, -\frac{8}{43}, \frac{9}{43}, -\frac{5}{43}, \frac{5}{43}, \frac{22}{43}, -\frac{9}{43})$ $+ \frac{12}{43}\sqrt{11}e^2 \otimes e_9$	{123468, 145789, 2345, 4679}
953:8	$0, 0, 0, 0, \frac{143}{1141}\sqrt{10}e^{12}, \frac{65}{1141}\sqrt{70}e^{13}, \frac{13}{1141}\sqrt{2186}e^{15},$ $\frac{26}{1141}\sqrt{177}e^{25}, \frac{26}{1141}\sqrt{429}e^{16} + \frac{26}{1141}\sqrt{479}e^{34}$	$(\frac{117}{1141}, -\frac{169}{1141}, -\frac{52}{1141}, \frac{234}{1141}, -\frac{52}{1141}, \frac{65}{1141}, \frac{65}{1141}, -\frac{221}{1141}, \frac{26}{163})$ $+ \frac{13}{1141}\sqrt{102}e^3 \otimes e_8 + \frac{26}{1141}\sqrt{555}e^4 \otimes e_7$	{127, 235789}
953:8	$0, 0, 0, 0, \frac{3}{331}\sqrt{2290}e^{12}, \frac{2}{331}\sqrt{16030}e^{13}, \frac{2}{331}\sqrt{10534}e^{15},$ $\frac{1}{331}\sqrt{64578}e^{25}, \frac{1}{331}\sqrt{21526}e^{16} + \frac{4}{331}\sqrt{1374}e^{34}$	$(\frac{2}{331}, -\frac{44}{331}, \frac{143}{331}, \frac{4}{331}, -\frac{42}{331}, \frac{145}{331}, -\frac{40}{331}, -\frac{86}{331}, \frac{147}{331})$ $+ \frac{3}{331}\sqrt{14198}e^3 \otimes e_8$	{123579, 139, 278, 58}
953:8	$0, 0, 0, 0, \frac{4}{589}\sqrt{3223}e^{12}, \frac{44}{589}\sqrt{38}e^{13}, \frac{92}{589}\sqrt{11}e^{15}, \frac{36}{589}\sqrt{22}e^{25},$ $\frac{44}{589}\sqrt{38}e^{16} + \frac{20}{589}\sqrt{209}e^{34}$	$(\frac{3}{31}, -\frac{88}{589}, -\frac{14}{589}, \frac{6}{31}, -\frac{1}{19}, \frac{43}{589}, \frac{26}{589}, -\frac{119}{589}, \frac{100}{589})$ $+ \frac{4}{589}\sqrt{6006}e^4 \otimes e_7$	{123679, 127, 235789, 25678}
953:8	$0, 0, 0, 0, \frac{1}{13}\sqrt{3}e^{12}, \frac{1}{65}\sqrt{70}e^{13}, \frac{1}{65}\sqrt{115}e^{15}, \frac{1}{65}\sqrt{255}e^{25},$ $\frac{1}{65}\sqrt{85}e^{16} + \frac{1}{65}\sqrt{165}e^{34}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+ \frac{3}{65}\sqrt{30}e^3 \otimes e_8 + \frac{3}{65}\sqrt{35}e^2 \otimes e_9$	{1268, 3679}
953:8	$0, 0, 0, 0, \frac{8}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{14}e^{13}, \frac{4}{29}\sqrt{5}e^{15}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{34}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $- \frac{2}{29}\sqrt{42}e^3 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{1278, 135689, 2567, 39}
953:8	$0, 0, 0, 0, \frac{8}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{14}e^{13}, \frac{4}{29}\sqrt{5}e^{15}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{34}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{1278, 135689, 2567, 39}
953:8	$0, 0, 0, 0, \frac{1}{338}\sqrt{610}e^{12}, \frac{1}{169}\sqrt{182}e^{13}, \frac{1}{338}\sqrt{782}e^{15}, \frac{3}{338}\sqrt{10}e^{25},$ $\frac{1}{338}\sqrt{590}e^{16} + \frac{1}{338}\sqrt{890}e^{34}$	$(\frac{3}{169}, -\frac{1}{169}, -\frac{8}{169}, \frac{6}{169}, \frac{2}{169}, -\frac{5}{169}, \frac{5}{169}, \frac{1}{169}, -\frac{2}{169})$ $+ \frac{1}{169}\sqrt{210}e^4 \otimes e_7 + \frac{3}{338}\sqrt{46}e^2 \otimes e_9$	{127, 25678}
953:8	$0, 0, 0, 0, \frac{4}{613}\sqrt{13695}e^{12}, \frac{8}{613}\sqrt{7885}e^{13}, \frac{4}{613}\sqrt{16351}e^{15}, \frac{16}{613}\sqrt{498}e^{25},$ $\frac{4}{613}\sqrt{17098}e^{16} + \frac{4}{613}\sqrt{13695}e^{34}$	$(-\frac{133}{613}, \frac{160}{613}, \frac{398}{613}, -\frac{266}{613}, \frac{27}{613}, \frac{265}{613}, -\frac{106}{613}, \frac{187}{613}, \frac{132}{613})$ $+ \frac{12}{613}\sqrt{4814}e^3 \otimes e_4$	{124567, 146, 2478, 458}
953:8	$0, 0, 0, 0, \frac{2}{29}\sqrt{65}e^{12}, \frac{2}{29}\sqrt{65}e^{13}, \frac{2}{29}\sqrt{26}e^{15}, \frac{6}{29}\sqrt{13}e^{25},$ $\frac{2}{29}\sqrt{65}e^{16} + \frac{26}{29}e^{34}$	$(\frac{8}{29}, -\frac{9}{29}, -\frac{3}{29}, \frac{16}{29}, -\frac{1}{29}, \frac{5}{29}, \frac{7}{29}, -\frac{10}{29}, \frac{13}{29})$ $+ \frac{4}{29}\sqrt{78}e^4 \otimes e_8$	{1236789, 1278, 135689, 158}
953:8	$0, 0, 0, 0, \frac{1}{100}\sqrt{218}e^{12}, \frac{1}{50}\sqrt{38}e^{13}, \frac{1}{100}\sqrt{10}e^{15}, \frac{3}{100}\sqrt{30}e^{25},$ $\frac{1}{100}\sqrt{14}e^{16} + \frac{1}{100}\sqrt{322}e^{34}$	$(\frac{1}{25}, 0, -\frac{3}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{1}{25})$ $+ \frac{1}{50}\sqrt{78}e^4 \otimes e_8 + \frac{3}{100}\sqrt{46}e^2 \otimes e_9$	{128, 1356789}
953:8	$0, 0, 0, 0, \frac{1}{14}\sqrt{30}e^{12}, \frac{1}{7}\sqrt{2}e^{13}, \frac{1}{14}\sqrt{22}e^{15}, \frac{5}{14}\sqrt{2}e^{25},$ $\frac{1}{14}\sqrt{30}e^{16} + \frac{1}{14}\sqrt{30}e^{34}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, 0, 0, \frac{3}{7}, -\frac{1}{7})$ $+ \frac{1}{14}\sqrt{106}e^2 \otimes e_9 + \frac{1}{7}\sqrt{10}e^3 \otimes e_4$	{135789, 3679}
953:9	$0, 0, 0, 0, \frac{4}{131}\sqrt{13}e^{12}, \frac{4}{131}\sqrt{429}e^{13}, \frac{4}{131}\sqrt{429}e^{15}, \frac{4}{131}\sqrt{13}e^{25},$ $\frac{4}{131}\sqrt{91}e^{24} + \frac{4}{131}\sqrt{598}e^{36}$	$(-\frac{42}{131}, \frac{32}{131}, \frac{52}{131}, \frac{30}{131}, -\frac{10}{131}, \frac{10}{131}, -\frac{52}{131}, \frac{22}{131}, \frac{62}{131})$ $+ \frac{24}{131}\sqrt{39}e^3 \otimes e_7$	{1234589, 16789, 236, 457}
953:9	$0, 0, 0, 0, \frac{2}{13}\sqrt{30}e^{12}, \frac{2}{13}\sqrt{5}e^{13}, \frac{2}{13}\sqrt{5}e^{15}, \frac{2}{13}\sqrt{30}e^{25},$ $\frac{4}{13}\sqrt{5}e^{24} + \frac{2}{13}\sqrt{10}e^{36}$	$(-\frac{2}{13}, \frac{5}{13}, \frac{1}{13}, -\frac{5}{13}, \frac{3}{13}, -\frac{1}{13}, \frac{1}{13}, \frac{8}{13}, 0)$ $+ \frac{2}{13}\sqrt{55}e^2 \otimes e_4$	{12368, 128, 1345678, 14578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:9	$0, 0, 0, 0, \frac{4}{3131}\sqrt{93961}e^{12}, \frac{4}{3131}\sqrt{138993}e^{13}, \frac{4}{3131}\sqrt{84435}e^{15},$ $\frac{4}{3131}\sqrt{352895}e^{25}, \frac{4}{3131}\sqrt{381473}e^{24} + \frac{4}{3131}\sqrt{47630}e^{36}$	$(\frac{642}{3131}, -\frac{928}{3131}, \frac{340}{3131}, \frac{2250}{3131}, -\frac{286}{3131}, \frac{982}{3131}, \frac{356}{3131}, -\frac{1214}{3131}, \frac{1322}{3131})$ $+ \frac{8}{3131}\sqrt{279285}e^4 \otimes e_8$	{123457, 124567, 236789, 2789}
953:9	$0, 0, 0, 0, \frac{10}{113}\sqrt{26}e^{12}, \frac{30}{113}e^{13}, \frac{30}{113}e^{15}, \frac{10}{113}\sqrt{26}e^{25},$ $\frac{10}{113}\sqrt{22}e^{24} + \frac{20}{113}\sqrt{7}e^{36}$	$(-\frac{30}{113}, \frac{35}{113}, \frac{25}{113}, -\frac{15}{113}, \frac{5}{113}, -\frac{5}{113}, -\frac{25}{113}, \frac{40}{113}, \frac{20}{113})$ $+ \frac{10}{113}\sqrt{51}e^2 \otimes e_4 + \frac{40}{113}\sqrt{3}e^3 \otimes e_7$	{257, 346}
953:9	$0, 0, 0, 0, \frac{1}{98}\sqrt{74}e^{12}, \frac{1}{196}\sqrt{12358}e^{13}, \frac{1}{196}\sqrt{7770}e^{15}, \frac{5}{49}\sqrt{37}e^{25},$ $\frac{1}{196}\sqrt{7622}e^{24} + \frac{1}{196}\sqrt{12210}e^{36}$	$(-\frac{3}{196}, -\frac{41}{392}, \frac{15}{98}, \frac{155}{392}, -\frac{47}{392}, \frac{27}{196}, -\frac{53}{392}, -\frac{11}{49}, \frac{57}{196})$ $+ \frac{1}{98}\sqrt{6290}e^3 \otimes e_8$	{1234579, 139, 278, 458}
953:9	$0, 0, 0, 0, \frac{3}{92}\sqrt{146}e^{12}, \frac{3}{184}\sqrt{438}e^{13}, \frac{1}{184}\sqrt{24090}e^{15}, \frac{5}{92}\sqrt{146}e^{25},$ $\frac{1}{184}\sqrt{26718}e^{24} + \frac{3}{184}\sqrt{730}e^{36}$	$(-\frac{27}{184}, \frac{1}{368}, \frac{15}{46}, \frac{185}{368}, -\frac{53}{368}, \frac{33}{184}, -\frac{107}{368}, -\frac{13}{92}, \frac{93}{184})$ $+ \frac{1}{23}\sqrt{730}e^4 \otimes e_7$	{234, 246, 357, 567}
953:9	$0, 0, 0, 0, \frac{4}{225}\sqrt{165}e^{12}, \frac{4}{225}\sqrt{645}e^{13}, \frac{4}{25}\sqrt{5}e^{15}, \frac{4}{75}\sqrt{35}e^{25},$ $\frac{4}{225}\sqrt{285}e^{24} + \frac{4}{75}\sqrt{70}e^{36}$	$(-\frac{2}{15}, 0, \frac{4}{15}, \frac{2}{5}, -\frac{2}{15}, \frac{2}{15}, -\frac{4}{15}, -\frac{2}{15}, \frac{2}{5})$ $+ \frac{16}{45}\sqrt{3}e^4 \otimes e_8 + \frac{8}{225}\sqrt{435}e^3 \otimes e_7$	{14679, 578}
953:9	$0, 0, 0, 0, \frac{5}{466}\sqrt{166}e^{12}, \frac{5}{932}\sqrt{830}e^{13}, \frac{5}{932}\sqrt{802}e^{15}, \frac{5}{233}\sqrt{118}e^{25},$ $\frac{45}{932}\sqrt{14}e^{24} + \frac{5}{932}\sqrt{1162}e^{36}$	$(-\frac{95}{932}, \frac{135}{1864}, \frac{45}{466}, \frac{35}{1864}, -\frac{55}{1864}, -\frac{5}{932}, -\frac{245}{1864}, \frac{10}{233}, \frac{85}{932})$ $+ \frac{5}{233}\sqrt{86}e^2 \otimes e_4 + \frac{5}{466}\sqrt{510}e^3 \otimes e_8$	{2356, 3467}
953:9	$0, 0, 0, 0, \frac{1}{12}\sqrt{6}e^{12}, \frac{1}{24}\sqrt{258}e^{13}, \frac{1}{8}\sqrt{30}e^{15}, \frac{1}{4}\sqrt{10}e^{25},$ $\frac{1}{24}\sqrt{282}e^{24} + \frac{1}{8}\sqrt{30}e^{36}$	$(\frac{1}{8}, -\frac{3}{16}, 0, \frac{5}{16}, -\frac{1}{16}, \frac{1}{8}, \frac{1}{16}, -\frac{1}{4}, \frac{1}{8})$ $+ \frac{1}{6}\sqrt{15}e^4 \otimes e_7 + \frac{1}{6}\sqrt{30}e^3 \otimes e_8$	{2356, 3467}
953:9	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{4}{29}\sqrt{2}e^{15}, \frac{2}{29}\sqrt{46}e^{25},$ $\frac{2}{29}\sqrt{14}e^{24} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{1}{29}, \frac{6}{29}, \frac{7}{29}, -\frac{3}{29}, \frac{2}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{34}e^2 \otimes e_7 + \frac{4}{29}\sqrt{17}e^3 \otimes e_8$	{124689, 156789, 2356, 3467}
953:9	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{4}{29}\sqrt{2}e^{15}, \frac{2}{29}\sqrt{46}e^{25},$ $\frac{2}{29}\sqrt{14}e^{24} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{1}{29}, \frac{6}{29}, \frac{7}{29}, -\frac{3}{29}, \frac{2}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{34}e^2 \otimes e_7 + \frac{4}{29}\sqrt{17}e^3 \otimes e_8$	{124689, 156789, 2356, 3467}
953:10	$0, 0, 0, 0, \frac{70}{1273}\sqrt{15}e^{12}, \frac{5}{1273}\sqrt{4330}e^{13}, \frac{15}{1273}\sqrt{670}e^{15},$ $\frac{20}{1273}\sqrt{285}e^{14} + \frac{25}{1273}\sqrt{134}e^{25}, \frac{40}{1273}\sqrt{35}e^{16}$	$(-\frac{15}{1273}, \frac{5}{67}, -\frac{140}{1273}, \frac{10}{67}, \frac{80}{1273}, -\frac{155}{1273}, \frac{65}{1273}, \frac{175}{1273}, -\frac{170}{1273})$ $+ \frac{20}{1273}\sqrt{370}e^4 \otimes e_7 + \frac{5}{1273}\sqrt{6270}e^1 \otimes e_3$	{145, 3489}
953:10	$0, 0, 0, 0, \frac{1}{103}\sqrt{70}e^{12}, \frac{1}{103}\sqrt{2730}e^{13}, \frac{7}{103}\sqrt{10}e^{15},$ $\frac{4}{103}\sqrt{35}e^{14} + \frac{4}{103}\sqrt{105}e^{25}, \frac{7}{103}\sqrt{105}e^{16}$	$(\frac{9}{103}, -\frac{13}{103}, \frac{18}{103}, -\frac{26}{103}, -\frac{4}{103}, \frac{27}{103}, \frac{5}{103}, -\frac{17}{103}, \frac{36}{103})$ $+ \frac{15}{103}\sqrt{14}e^3 \otimes e_8 + \frac{2}{103}\sqrt{805}e^1 \otimes e_4$	{234569, 34679}
953:10	$0, 0, 0, 0, \frac{19}{1745}\sqrt{517}e^{12}, \frac{76}{1745}\sqrt{62}e^{13}, \frac{38}{1745}\sqrt{230}e^{15},$ $\frac{19}{1745}\sqrt{923}e^{14} + \frac{114}{1745}\sqrt{3}e^{25}, \frac{19}{1745}\sqrt{553}e^{16}$	$(\frac{57}{1745}, -\frac{152}{1745}, \frac{323}{1745}, -\frac{304}{1745}, -\frac{19}{349}, \frac{76}{349}, -\frac{38}{1745}, -\frac{247}{1745}, \frac{437}{1745})$ $+ \frac{19}{1745}\sqrt{1317}e^3 \otimes e_7 + \frac{38}{1745}\sqrt{463}e^1 \otimes e_4$	{2457, 3469}
953:10	$0, 0, 0, 0, \frac{28}{215}e^{12}, \frac{1}{215}\sqrt{609}e^{13}, \frac{1}{215}\sqrt{7}e^{15},$ $\frac{1}{215}\sqrt{1043}e^{14} + \frac{2}{215}\sqrt{231}e^{25}, \frac{2}{215}\sqrt{273}e^{16}$	$(\frac{9}{215}, \frac{1}{215}, -\frac{24}{215}, \frac{2}{215}, \frac{2}{43}, -\frac{3}{43}, \frac{19}{215}, \frac{11}{215}, -\frac{6}{215})$ $+ \frac{2}{215}\sqrt{322}e^1 \otimes e_4 + \frac{3}{215}\sqrt{161}e^2 \otimes e_9$	{245, 34679}
953:10	$0, 0, 0, 0, \frac{21}{221}\sqrt{34}e^{12}, \frac{28}{221}\sqrt{39}e^{13}, \frac{28}{221}\sqrt{30}e^{15},$ $\frac{28}{221}\sqrt{15}e^{14} + \frac{21}{221}\sqrt{58}e^{25}, \frac{7}{221}\sqrt{246}e^{16}$	$(-\frac{22}{221}, -\frac{4}{221}, \frac{9}{17}, -\frac{8}{221}, -\frac{2}{221}, \frac{95}{17}, \frac{48}{221}, -\frac{30}{221}, \frac{73}{221})$ $+ \frac{63}{221}\sqrt{14}e^3 \otimes e_8$	{1234579, 1349, 2478, 458}
953:10	$0, 0, 0, 0, \frac{8}{123}\sqrt{37}e^{12}, \frac{4}{123}\sqrt{3}e^{13}, \frac{4}{123}\sqrt{29}e^{15},$ $\frac{4}{123}\sqrt{5}e^{14} + \frac{4}{123}\sqrt{106}e^{25}, \frac{8}{123}\sqrt{30}e^{16}$	$(\frac{4}{123}, \frac{4}{41}, -\frac{28}{123}, \frac{8}{41}, \frac{16}{123}, -\frac{8}{41}, \frac{20}{123}, \frac{28}{123}, -\frac{20}{123})$ $+ \frac{4}{123}\sqrt{190}e^1 \otimes e_3 + \frac{4}{123}\sqrt{251}e^2 \otimes e_9$	{14589, 23457}
953:10	$0, 0, 0, 0, \frac{4}{133}\sqrt{174}e^{12}, \frac{2}{133}\sqrt{2262}e^{13}, \frac{6}{133}\sqrt{406}e^{15},$ $\frac{2}{133}\sqrt{3306}e^{14} + \frac{2}{133}\sqrt{2030}e^{25}, \frac{2}{133}\sqrt{2262}e^{16}$	$(-\frac{39}{133}, \frac{2}{7}, \frac{54}{133}, \frac{4}{7}, -\frac{1}{133}, \frac{15}{133}, -\frac{40}{133}, \frac{37}{133}, -\frac{24}{133})$ $+ \frac{4}{133}\sqrt{1711}e^4 \otimes e_7$	{134569, 145, 3489, 468}
953:10	$0, 0, 0, 0, \frac{13}{647}\sqrt{322}e^{12}, \frac{26}{1941}\sqrt{894}e^{13}, \frac{26}{1941}\sqrt{942}e^{15},$ $\frac{52}{647}\sqrt{21}e^{14} + \frac{13}{647}\sqrt{290}e^{25}, \frac{13}{1941}\sqrt{3054}e^{16}$	$(-\frac{338}{1941}, \frac{208}{1941}, \frac{195}{647}, \frac{416}{1941}, -\frac{130}{1941}, \frac{247}{1941}, -\frac{156}{647}, \frac{26}{647}, -\frac{91}{1941})$ $+ \frac{13}{1941}\sqrt{6126}e^3 \otimes e_8 + \frac{52}{1941}\sqrt{285}e^4 \otimes e_9$	{2478, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:10	$0, 0, 0, 0, \frac{1}{41}\sqrt{14}e^{12}, \frac{2}{41}\sqrt{42}e^{13}, \frac{2}{41}\sqrt{42}e^{15},$ $\frac{2}{41}\sqrt{14}e^{14} + \frac{1}{41}\sqrt{266}e^{25}, \frac{1}{41}\sqrt{182}e^{16}$	$(-\frac{6}{41}, \frac{4}{41}, \frac{9}{41}, \frac{8}{41}, -\frac{2}{41}, \frac{3}{41}, -\frac{8}{41}, \frac{2}{41}, -\frac{3}{41})$ $+\frac{1}{41}\sqrt{238}e^3 \otimes e_8 + \frac{2}{41}\sqrt{70}e^2 \otimes e_9$	{12468, 34679}
953:10	$0, 0, 0, 0, \frac{14}{767}\sqrt{970}e^{12}, \frac{84}{767}\sqrt{30}e^{13}, \frac{28}{767}\sqrt{215}e^{15},$ $\frac{14}{767}\sqrt{1235}e^{14} + \frac{14}{767}\sqrt{330}e^{25}, \frac{84}{767}\sqrt{30}e^{16}$	$(\frac{216}{767}, -\frac{137}{767}, -\frac{93}{767}, -\frac{274}{767}, \frac{79}{767}, \frac{123}{767}, \frac{5}{13}, -\frac{58}{767}, \frac{339}{767})$ $+\frac{28}{767}\sqrt{805}e^1 \otimes e_4$	{2345679, 2457, 3469, 4}
953:10	$0, 0, 0, 0, \frac{9}{379}\sqrt{273}e^{12}, \frac{54}{379}\sqrt{11}e^{13}, \frac{36}{379}\sqrt{3}e^{15},$ $\frac{81}{379}\sqrt{3}e^{14} + \frac{18}{379}\sqrt{3}e^{25}, \frac{9}{379}\sqrt{435}e^{16}$	$(-\frac{99}{379}, \frac{90}{379}, \frac{135}{379}, \frac{180}{379}, -\frac{9}{379}, \frac{36}{379}, \frac{108}{379}, \frac{81}{379}, -\frac{63}{379})$ $+\frac{18}{379}\sqrt{267}e^4 \otimes e_9 + \frac{9}{379}\sqrt{951}e^3 \otimes e_7$	{123589, 2369}
953:10	$0, 0, 0, 0, \frac{84}{283}\sqrt{3}e^{12}, \frac{7}{283}\sqrt{237}e^{13}, \frac{7}{283}\sqrt{339}e^{15},$ $\frac{7}{283}\sqrt{555}e^{14} + \frac{84}{283}\sqrt{6}e^{25}, \frac{84}{283}\sqrt{5}e^{16}$	$(-\frac{41}{283}, \frac{67}{283}, \frac{2}{283}, \frac{134}{283}, \frac{26}{283}, -\frac{39}{283}, -\frac{15}{283}, \frac{93}{283}, -\frac{80}{283})$ $+\frac{21}{283}\sqrt{161}e^2 \otimes e_9$	{12468, 1345789, 245, 34679}
953:10	$0, 0, 0, 0, \frac{37}{2837}\sqrt{618}e^{12}, \frac{37}{2837}\sqrt{870}e^{13}, \frac{111}{2837}\sqrt{14}e^{15},$ $\frac{74}{2837}\sqrt{417}e^{14} + \frac{37}{2837}\sqrt{166}e^{25}, \frac{74}{2837}\sqrt{30}e^{16}$	$(-\frac{555}{2837}, \frac{259}{2837}, \frac{1332}{2837}, \frac{518}{2837}, -\frac{296}{2837}, \frac{777}{2837}, -\frac{851}{2837}, -\frac{37}{2837}, \frac{222}{2837})$ $+\frac{111}{2837}\sqrt{330}e^3 \otimes e_8 + \frac{74}{2837}\sqrt{535}e^4 \otimes e_7$	{134, 4589}
953:10	$0, 0, 0, 0, \frac{18}{1087}\sqrt{1855}e^{12}, \frac{3}{1087}\sqrt{53530}e^{13}, \frac{1}{1087}\sqrt{694830}e^{15},$ $\frac{4}{1087}\sqrt{24645}e^{14} + \frac{3}{1087}\sqrt{31270}e^{25}, \frac{4}{1087}\sqrt{795}e^{16}$	$(\frac{319}{1087}, -\frac{47}{1087}, -\frac{476}{1087}, -\frac{94}{1087}, \frac{272}{1087}, -\frac{157}{1087}, \frac{591}{1087}, \frac{225}{1087}, \frac{162}{1087})$ $+\frac{3}{1087}\sqrt{164830}e^1 \otimes e_3$	{12479, 1459, 234578, 348}
953:10	$0, 0, 0, 0, \frac{12}{2147}\sqrt{13213}e^{12}, \frac{2}{2147}\sqrt{194394}e^{13}, \frac{2}{2147}\sqrt{487614}e^{15},$ $\frac{2}{2147}\sqrt{737394}e^{14} + \frac{6}{2147}\sqrt{3982}e^{25}, \frac{2}{2147}\sqrt{852510}e^{16}$	$(-\frac{427}{2147}, \frac{734}{2147}, \frac{150}{2147}, \frac{1468}{2147}, \frac{307}{2147}, -\frac{277}{2147}, -\frac{120}{2147}, \frac{1041}{2147}, -\frac{704}{2147})$ $+\frac{12}{2147}\sqrt{54843}e^4 \otimes e_9$	{124567, 146, 2478, 458}
953:10	$0, 0, 0, 0, \frac{3}{277}\sqrt{101}e^{12}, \frac{1}{277}\sqrt{47874}e^{13}, \frac{1}{277}\sqrt{46662}e^{15},$ $\frac{1}{277}\sqrt{23331}e^{14} + \frac{3}{277}\sqrt{202}e^{25}, \frac{1}{277}\sqrt{1515}e^{16}$	$(-\frac{74}{277}, \frac{43}{277}, \frac{198}{277}, \frac{86}{277}, -\frac{31}{277}, \frac{124}{277}, -\frac{105}{277}, \frac{12}{277}, \frac{50}{277})$ $+\frac{9}{277}\sqrt{1717}e^3 \otimes e_7$	{124678, 134589, 2457, 3469}
953:10	$0, 0, 0, 0, \frac{86}{5307}\sqrt{273}e^{12}, \frac{86}{5307}\sqrt{394}e^{13}, \frac{86}{5307}\sqrt{374}e^{15},$ $\frac{86}{5307}\sqrt{763}e^{14} + \frac{86}{5307}\sqrt{303}e^{25}, \frac{43}{5307}\sqrt{1658}e^{16}$	$(\frac{344}{5307}, \frac{172}{1769}, -\frac{1505}{5307}, \frac{344}{1769}, \frac{860}{5307}, -\frac{387}{1769}, \frac{1204}{5307}, \frac{1376}{5307}, -\frac{817}{5307})$ $+\frac{43}{5307}\sqrt{5498}e^1 \otimes e_3 + \frac{86}{5307}\sqrt{1051}e^4 \otimes e_9$	{234578, 348}
953:10	$0, 0, 0, 0, \frac{22}{233}\sqrt{30}e^{12}, \frac{11}{233}\sqrt{69}e^{13}, \frac{33}{233}\sqrt{11}e^{15},$ $\frac{11}{233}\sqrt{159}e^{14} + \frac{22}{233}\sqrt{61}e^{25}, \frac{22}{233}\sqrt{51}e^{16}$	$(-\frac{33}{233}, \frac{55}{233}, 0, \frac{110}{233}, \frac{22}{233}, -\frac{33}{233}, -\frac{11}{233}, \frac{77}{233}, -\frac{66}{233})$ $+\frac{22}{233}\sqrt{2}e^4 \otimes e_7 + \frac{99}{233}\sqrt{5}e^2 \otimes e_9$	{1345789, 34679}
953:11	$0, 0, 0, 0, \frac{62}{1669}\sqrt{271}e^{12}, \frac{31}{1669}\sqrt{574}e^{13}, \frac{93}{1669}\sqrt{22}e^{25},$ $\frac{31}{1669}\sqrt{1018}e^{15} + \frac{62}{1669}\sqrt{86}e^{24}, \frac{62}{1669}\sqrt{29}e^{16}$	$(\frac{403}{1669}, -\frac{279}{1669}, -\frac{558}{1669}, \frac{806}{1669}, \frac{124}{1669}, -\frac{155}{1669}, -\frac{155}{1669}, \frac{527}{1669}, \frac{248}{1669})$ $+\frac{62}{1669}\sqrt{222}e^4 \otimes e_7 + \frac{93}{1669}\sqrt{230}e^1 \otimes e_3$	{23458, 34}
953:11	$0, 0, 0, 0, \frac{10}{187}\sqrt{223}e^{12}, \frac{10}{187}\sqrt{154}e^{13}, \frac{10}{187}\sqrt{6}e^{25},$ $\frac{150}{187}e^{15} + \frac{10}{187}\sqrt{221}e^{24}, \frac{95}{187}\sqrt{2}e^{16}$	$(0, \frac{20}{187}, -\frac{25}{187}, 0, \frac{20}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187}, -\frac{25}{187})$ $+\frac{30}{187}\sqrt{23}e^4 \otimes e_9 + \frac{5}{187}\sqrt{510}e^1 \otimes e_3$	{123589, 139}
953:11	$0, 0, 0, 0, \frac{8}{613}\sqrt{5251}e^{12}, \frac{20}{613}\sqrt{295}e^{13}, \frac{16}{613}\sqrt{885}e^{25},$ $\frac{28}{613}\sqrt{118}e^{15} + \frac{4}{613}\sqrt{12095}e^{24}, \frac{20}{613}\sqrt{295}e^{16}$	$(-\frac{125}{613}, \frac{222}{613}, \frac{204}{613}, -\frac{250}{613}, \frac{97}{613}, \frac{79}{613}, \frac{319}{613}, -\frac{28}{613}, -\frac{46}{613})$ $+\frac{4}{613}\sqrt{31506}e^2 \otimes e_4$	{1345679, 1457, 349, 46}
953:11	$0, 0, 0, 0, \frac{10}{653}\sqrt{782}e^{12}, \frac{20}{653}\sqrt{227}e^{13}, \frac{30}{653}\sqrt{22}e^{25},$ $\frac{10}{653}\sqrt{434}e^{15} + \frac{110}{653}\sqrt{10}e^{24}, \frac{10}{653}\sqrt{494}e^{16}$	$(\frac{20}{653}, -\frac{90}{653}, \frac{150}{653}, \frac{40}{653}, -\frac{70}{653}, \frac{170}{653}, -\frac{160}{653}, -\frac{50}{653}, \frac{190}{653})$ $+\frac{30}{653}\sqrt{138}e^3 \otimes e_8 + \frac{40}{653}\sqrt{69}e^4 \otimes e_7$	{278, 35679}
953:11	$0, 0, 0, 0, \frac{5}{218}\sqrt{246}e^{12}, \frac{5}{218}\sqrt{298}e^{13}, \frac{5}{218}\sqrt{102}e^{25},$ $\frac{5}{109}\sqrt{70}e^{15} + \frac{15}{218}\sqrt{38}e^{24}, \frac{5}{218}\sqrt{466}e^{16}$	$(\frac{65}{436}, -\frac{25}{218}, -\frac{25}{218}, \frac{65}{436}, \frac{15}{436}, -\frac{35}{436}, -\frac{35}{436}, \frac{20}{109}, \frac{15}{218})$ $+\frac{15}{109}\sqrt{14}e^4 \otimes e_9 - \frac{15}{218}\sqrt{30}e^1 \otimes e_7$	{123589, 139, 236789, 35679}
953:11	$0, 0, 0, 0, \frac{5}{218}\sqrt{246}e^{12}, \frac{5}{218}\sqrt{298}e^{13}, \frac{5}{218}\sqrt{102}e^{25},$ $\frac{5}{109}\sqrt{70}e^{15} + \frac{15}{218}\sqrt{38}e^{24}, \frac{5}{218}\sqrt{466}e^{16}$	$(\frac{65}{436}, -\frac{25}{218}, -\frac{25}{218}, \frac{65}{436}, \frac{15}{436}, -\frac{35}{436}, -\frac{35}{436}, \frac{20}{109}, \frac{15}{218})$ $+\frac{15}{109}\sqrt{14}e^4 \otimes e_9 + \frac{15}{218}\sqrt{30}e^1 \otimes e_7$	{123589, 139, 236789, 35679}
953:11	$0, 0, 0, 0, \frac{3}{65}\sqrt{10}e^{12}, \frac{1}{65}\sqrt{235}e^{13}, \frac{1}{65}\sqrt{255}e^{25},$ $\frac{2}{65}\sqrt{70}e^{15} + \frac{1}{65}\sqrt{165}e^{24}, \frac{1}{13}\sqrt{10}e^{16}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, 0, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0)$ $+\frac{3}{65}\sqrt{30}e^3 \otimes e_7 + \frac{3}{65}\sqrt{35}e^2 \otimes e_9$	{139, 278}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:11	$0, 0, 0, 0, \frac{1}{50}\sqrt{26}e^{12}, \frac{1}{100}\sqrt{170}e^{13}, \frac{3}{100}\sqrt{30}e^{25},$ $\frac{1}{50}\sqrt{83}e^{15} + \frac{1}{100}\sqrt{322}e^{24}, \frac{1}{50}\sqrt{77}e^{16}$	$(\frac{1}{25}, 0, -\frac{3}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{1}{25})$ $+ \frac{1}{50}\sqrt{78}e^4 \otimes e_7 + \frac{3}{100}\sqrt{46}e^2 \otimes e_9$	{278, 35679}
953:11	$0, 0, 0, 0, \frac{35}{3781}\sqrt{1042}e^{12}, \frac{35}{3781}\sqrt{1438}e^{13}, \frac{70}{3781}\sqrt{789}e^{25},$ $\frac{35}{3781}\sqrt{1118}e^{15} + \frac{70}{3781}\sqrt{197}e^{24}, \frac{70}{3781}\sqrt{66}e^{16}$	$(-\frac{455}{3781}, \frac{315}{3781}, \frac{1400}{3781}, -\frac{910}{3781}, -\frac{140}{3781}, \frac{945}{3781}, \frac{175}{3781}, -\frac{595}{3781}, \frac{490}{3781})$ $+ \frac{35}{3781}\sqrt{3522}e^3 \otimes e_7 + \frac{70}{3781}\sqrt{831}e^2 \otimes e_4$	{1267, 23569}
953:11	$0, 0, 0, 0, \frac{40}{629}\sqrt{93}e^{12}, \frac{20}{629}\sqrt{271}e^{13}, \frac{20}{629}\sqrt{6}e^{25},$ $\frac{20}{629}\sqrt{370}e^{15} + \frac{60}{629}\sqrt{51}e^{24}, \frac{20}{629}\sqrt{457}e^{16}$	$(\frac{5}{37}, -\frac{10}{629}, -\frac{200}{629}, \frac{10}{37}, \frac{75}{629}, -\frac{115}{629}, \frac{65}{629}, \frac{160}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{62}e^4 \otimes e_9$	{1235789, 1379, 23689, 3569}
953:11	$0, 0, 0, 0, \frac{4}{41}\sqrt{46}e^{12}, \frac{8}{41}\sqrt{17}e^{13}, \frac{12}{41}\sqrt{2}e^{25},$ $\frac{4}{41}\sqrt{6}e^{15} + \frac{4}{41}\sqrt{74}e^{24}, \frac{4}{41}\sqrt{22}e^{16}$	$(-\frac{6}{41}, \frac{4}{41}, \frac{24}{41}, -\frac{12}{41}, -\frac{2}{41}, \frac{18}{41}, \frac{2}{41}, -\frac{8}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_8$	{1234579, 14678, 23469, 458}
953:11	$0, 0, 0, 0, \frac{70}{181}e^{12}, \frac{14}{181}\sqrt{7}e^{13}, \frac{14}{181}\sqrt{15}e^{25},$ $\frac{7}{181}\sqrt{22}e^{15} + \frac{14}{181}\sqrt{10}e^{24}, \frac{14}{181}\sqrt{5}e^{16}$	$(\frac{7}{181}, \frac{21}{181}, -\frac{42}{181}, \frac{14}{181}, \frac{28}{181}, -\frac{35}{181}, \frac{49}{181}, \frac{35}{181}, -\frac{28}{181})$ $+ \frac{35}{181}\sqrt{6}e^1 \otimes e_3 + \frac{7}{181}\sqrt{174}e^2 \otimes e_9$	{1579, 2358}
953:11	$0, 0, 0, 0, \frac{46}{4765}\sqrt{1513}e^{12}, \frac{23}{953}\sqrt{130}e^{13}, \frac{23}{4765}\sqrt{1434}e^{25},$ $\frac{23}{953}\sqrt{166}e^{15} + \frac{92}{4765}\sqrt{233}e^{24}, \frac{92}{4765}\sqrt{103}e^{16}$	$(-\frac{23}{4765}, \frac{483}{4765}, -\frac{552}{4765}, -\frac{46}{4765}, \frac{92}{953}, \frac{115}{953}, \frac{943}{4765}, \frac{437}{4765}, -\frac{598}{4765})$ $+ \frac{69}{4765}\sqrt{534}e^1 \otimes e_3 + \frac{92}{4765}\sqrt{267}e^2 \otimes e_4$	{1457, 349}
953:11	$0, 0, 0, 0, \frac{4}{29}\sqrt{26}e^{12}, \frac{4}{29}\sqrt{26}e^{13}, \frac{6}{29}\sqrt{13}e^{25},$ $\frac{2}{29}\sqrt{143}e^{15} + \frac{26}{29}e^{24}, \frac{4}{29}\sqrt{26}e^{16}$	$(\frac{8}{29}, -\frac{9}{29}, -\frac{3}{29}, \frac{16}{29}, -\frac{1}{29}, \frac{5}{29}, -\frac{10}{29}, \frac{7}{29}, \frac{13}{29})$ $+ \frac{4}{29}\sqrt{78}e^4 \otimes e_7$	{236789, 278, 35679, 57}
953:11	$0, 0, 0, 0, \frac{5}{439}\sqrt{434}e^{12}, \frac{60}{439}\sqrt{3}e^{13}, \frac{5}{439}\sqrt{138}e^{25},$ $\frac{20}{439}\sqrt{30}e^{15} + \frac{40}{439}\sqrt{7}e^{24}, \frac{5}{439}\sqrt{494}e^{16}$	$(\frac{30}{439}, -\frac{40}{439}, -\frac{25}{439}, \frac{60}{439}, -\frac{10}{439}, \frac{5}{439}, -\frac{50}{439}, \frac{20}{439}, \frac{35}{439})$ $+ \frac{20}{439}\sqrt{31}e^4 \otimes e_9 + \frac{5}{439}\sqrt{310}e^3 \otimes e_7$	{123589, 139}
953:11	$0, 0, 0, 0, \frac{2}{29}\sqrt{14}e^{12}, \frac{8}{29}\sqrt{2}e^{13}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{2}{29}\sqrt{26}e^{15} + \frac{2}{29}\sqrt{46}e^{24}, \frac{2}{29}\sqrt{38}e^{16}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_8 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{12568, 139, 278, 35679}
953:11	$0, 0, 0, 0, \frac{2}{29}\sqrt{14}e^{12}, \frac{8}{29}\sqrt{2}e^{13}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{2}{29}\sqrt{26}e^{15} + \frac{2}{29}\sqrt{46}e^{24}, \frac{2}{29}\sqrt{38}e^{16}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $- \frac{2}{29}\sqrt{42}e^3 \otimes e_8 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{12568, 139, 278, 35679}
953:11	$0, 0, 0, 0, \frac{4}{53}\sqrt{34}e^{12}, \frac{8}{53}\sqrt{5}e^{13}, \frac{4}{53}\sqrt{30}e^{25},$ $\frac{4}{53}\sqrt{22}e^{15} + \frac{4}{53}\sqrt{10}e^{24}, \frac{4}{53}\sqrt{10}e^{16}$	$(-\frac{10}{53}, \frac{12}{53}, \frac{24}{53}, -\frac{20}{53}, \frac{2}{53}, \frac{14}{53}, \frac{14}{53}, -\frac{8}{53}, \frac{4}{53})$ $+ \frac{12}{53}\sqrt{10}e^3 \otimes e_8 + \frac{16}{53}\sqrt{6}e^2 \otimes e_4$	{126789, 2589}
953:11	$0, 0, 0, 0, \frac{1}{331}\sqrt{42594}e^{12}, \frac{2}{331}\sqrt{21526}e^{13}, \frac{1}{331}\sqrt{64578}e^{25},$ $\frac{2}{331}\sqrt{16030}e^{15} + \frac{4}{331}\sqrt{1374}e^{24}, \frac{1}{331}\sqrt{43510}e^{16}$	$(\frac{2}{331}, -\frac{44}{331}, \frac{143}{331}, \frac{4}{331}, -\frac{42}{331}, \frac{145}{331}, -\frac{86}{331}, -\frac{40}{331}, \frac{147}{331})$ $+ \frac{3}{331}\sqrt{14198}e^3 \otimes e_7$	{123589, 139, 278, 57}
953:11	$0, 0, 0, 0, \frac{2}{301}\sqrt{17177}e^{12}, \frac{1}{301}\sqrt{42074}e^{13}, \frac{1}{301}\sqrt{5790}e^{25},$ $\frac{1}{301}\sqrt{70638}e^{15} + \frac{4}{301}\sqrt{2509}e^{24}, \frac{2}{301}\sqrt{1930}e^{16}$	$(\frac{69}{301}, -\frac{25}{301}, -\frac{124}{301}, \frac{138}{301}, \frac{44}{301}, -\frac{55}{301}, \frac{19}{301}, \frac{113}{301}, \frac{2}{43})$ $+ \frac{1}{301}\sqrt{103062}e^1 \otimes e_3$	{1248, 145, 2345789, 3479}
953:12	$0, 0, 0, 0, \frac{2}{223}\sqrt{1565}e^{12}, \frac{2}{669}\sqrt{9390}e^{13}, \frac{2}{669}\sqrt{9390}e^{15},$ $\frac{2}{669}\sqrt{85449}e^{14} + \frac{2}{223}\sqrt{1565}e^{25}, \frac{2}{669}\sqrt{69799}e^{36}$	$(-\frac{20}{223}, \frac{66}{223}, -\frac{85}{669}, \frac{132}{223}, \frac{46}{223}, -\frac{145}{669}, \frac{26}{223}, \frac{112}{223}, -\frac{230}{669})$ $+ \frac{2}{669}\sqrt{175593}e^4 \otimes e_9$	{2379, 2679, 359, 569}
953:12	$0, 0, 0, 0, \frac{148}{4541}\sqrt{5}e^{12}, \frac{74}{4541}\sqrt{771}e^{13}, \frac{37}{4541}\sqrt{826}e^{15},$ $\frac{148}{4541}\sqrt{46}e^{14} + \frac{37}{4541}\sqrt{2238}e^{25}, \frac{148}{4541}\sqrt{138}e^{36}$	$(\frac{333}{4541}, -\frac{518}{4541}, \frac{666}{4541}, -\frac{1036}{4541}, -\frac{185}{4541}, \frac{999}{4541}, \frac{148}{4541}, -\frac{37}{239}, \frac{1665}{4541})$ $+ \frac{37}{4541}\sqrt{2458}e^1 \otimes e_4 + \frac{37}{4541}\sqrt{5502}e^3 \otimes e_8$	{2478, 458}
953:12	$0, 0, 0, 0, \frac{19}{2093}\sqrt{1642}e^{12}, \frac{19}{2093}\sqrt{285}e^{13}, \frac{19}{2093}\sqrt{611}e^{15},$ $\frac{95}{2093}\sqrt{41}e^{14} + \frac{57}{2093}\sqrt{110}e^{25}, \frac{38}{2093}\sqrt{213}e^{36}$	$(\frac{285}{2093}, -\frac{38}{2093}, -\frac{342}{2093}, -\frac{76}{2093}, \frac{19}{161}, -\frac{57}{2093}, \frac{76}{299}, \frac{209}{2093}, -\frac{57}{299})$ $+ \frac{19}{2093}\sqrt{1630}e^1 \otimes e_4 + \frac{19}{2093}\sqrt{2103}e^2 \otimes e_9$	{234567, 2457}
953:12	$0, 0, 0, 0, \frac{1}{117}\sqrt{178}e^{12}, \frac{1}{117}\sqrt{5874}e^{13}, \frac{1}{117}\sqrt{5874}e^{15},$ $\frac{4}{117}\sqrt{178}e^{14} + \frac{1}{117}\sqrt{178}e^{25}, \frac{1}{117}\sqrt{6942}e^{36}$	$(-\frac{31}{117}, \frac{2}{13}, \frac{5}{13}, \frac{4}{13}, -\frac{1}{9}, \frac{14}{117}, -\frac{44}{117}, \frac{5}{117}, \frac{59}{117})$ $+ \frac{1}{117}\sqrt{17266}e^3 \otimes e_7$	{1246789, 134589, 2457, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:12	$0, 0, 0, 0, \frac{4}{59}\sqrt{94}e^{12}, \frac{1}{177}\sqrt{282}e^{13}, \frac{1}{177}\sqrt{282}e^{15},$ $\frac{5}{177}\sqrt{282}e^{14} + \frac{4}{59}\sqrt{94}e^{25}, \frac{2}{177}\sqrt{2773}e^{36}$	$(-\frac{1}{59}, \frac{11}{59}, -\frac{29}{177}, \frac{22}{59}, \frac{10}{59}, -\frac{32}{177}, \frac{9}{59}, \frac{21}{59}, -\frac{61}{177})$ $+ \frac{1}{59}\sqrt{3102}e^2 \otimes e_9$	{123468, 1248, 3479, 4679}
953:12	$0, 0, 0, 0, \frac{2}{1627}\sqrt{4965}e^{12}, \frac{3}{1627}\sqrt{102610}e^{13}, \frac{2}{1627}\sqrt{451815}e^{15},$ $\frac{3}{1627}\sqrt{201910}e^{14} + \frac{3}{1627}\sqrt{930110}e^{25}, \frac{2}{1627}\sqrt{69510}e^{36}$	$(-\frac{558}{1627}, \frac{539}{1627}, \frac{447}{1627}, \frac{1078}{1627}, -\frac{19}{1627}, -\frac{111}{1627}, -\frac{577}{1627}, \frac{520}{1627}, \frac{336}{1627})$ $+ \frac{25}{1627}\sqrt{7282}e^4 \otimes e_7$	{13678, 178, 3579, 5679}
953:12	$0, 0, 0, 0, \frac{6}{61}\sqrt{5}e^{12}, \frac{6}{305}\sqrt{295}e^{13}, \frac{18}{305}\sqrt{5}e^{15},$ $\frac{12}{305}\sqrt{10}e^{14} + \frac{6}{305}\sqrt{510}e^{25}, \frac{6}{305}\sqrt{335}e^{36}$	$(-\frac{9}{61}, \frac{3}{61}, \frac{15}{61}, \frac{6}{61}, -\frac{6}{61}, \frac{6}{61}, \frac{15}{61}, -\frac{3}{61}, \frac{21}{61})$ $+ \frac{12}{305}\sqrt{130}e^2 \otimes e_7 + \frac{6}{305}\sqrt{815}e^3 \otimes e_8$	{12689, 156789, 2356, 367}
953:12	$0, 0, 0, 0, \frac{6}{61}\sqrt{5}e^{12}, \frac{6}{305}\sqrt{295}e^{13}, \frac{18}{305}\sqrt{5}e^{15},$ $\frac{12}{305}\sqrt{10}e^{14} + \frac{6}{305}\sqrt{510}e^{25}, \frac{6}{305}\sqrt{335}e^{36}$	$(-\frac{9}{61}, \frac{3}{61}, \frac{15}{61}, \frac{6}{61}, -\frac{6}{61}, \frac{6}{61}, \frac{15}{61}, -\frac{3}{61}, \frac{21}{61})$ $- \frac{12}{305}\sqrt{130}e^2 \otimes e_7 + \frac{6}{305}\sqrt{815}e^3 \otimes e_8$	{12689, 156789, 2356, 367}
953:12	$0, 0, 0, 0, \frac{1}{159}\sqrt{87}e^{12}, \frac{1}{318}\sqrt{822}e^{13}, \frac{1}{106}\sqrt{74}e^{15},$ $\frac{1}{106}\sqrt{10}e^{14} + \frac{1}{159}\sqrt{366}e^{25}, \frac{1}{159}\sqrt{318}e^{36}$	$(-\frac{3}{53}, \frac{2}{53}, \frac{2}{53}, \frac{4}{53}, -\frac{1}{53}, -\frac{1}{53}, -\frac{4}{53}, \frac{1}{53}, \frac{53}{53})$ $+ \frac{1}{159}\sqrt{465}e^3 \otimes e_8 + \frac{1}{318}\sqrt{1578}e^2 \otimes e_9$	{156789, 2356}
953:12	$0, 0, 0, 0, \frac{414}{9321}e^{12}, \frac{23}{3107}\sqrt{482}e^{13}, \frac{23}{9321}\sqrt{4038}e^{15},$ $\frac{46}{9321}\sqrt{1491}e^{14} + \frac{23}{3107}\sqrt{374}e^{25}, \frac{23}{9321}\sqrt{6214}e^{36}$	$(-\frac{23}{239}, \frac{184}{3107}, \frac{736}{9321}, \frac{368}{3107}, -\frac{115}{3107}, \frac{161}{9321}, -\frac{414}{3107}, \frac{69}{3107}, \frac{575}{9321})$ $+ \frac{23}{9321}\sqrt{10470}e^3 \otimes e_8 + \frac{23}{9321}\sqrt{6618}e^4 \otimes e_9$	{2478, 458}
953:12	$0, 0, 0, 0, \frac{55}{1641}\sqrt{30}e^{12}, \frac{11}{1641}\sqrt{2130}e^{13}, \frac{11}{1641}\sqrt{2130}e^{15},$ $\frac{88}{1641}\sqrt{30}e^{14} + \frac{55}{1641}\sqrt{30}e^{25}, \frac{11}{1641}\sqrt{5470}e^{36}$	$(-\frac{121}{547}, \frac{110}{547}, \frac{209}{1641}, \frac{220}{547}, -\frac{11}{547}, -\frac{154}{1641}, -\frac{132}{547}, \frac{99}{547}, \frac{55}{1641})$ $+ \frac{11}{1641}\sqrt{7890}e^3 \otimes e_7 + \frac{88}{1641}\sqrt{105}e^4 \otimes e_9$	{123589, 16789}
953:12	$0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{2}e^{13}, \frac{2}{13}\sqrt{2}e^{15}, \frac{2}{39}\sqrt{30}e^{14} + \frac{4}{13}e^{25},$ $\frac{4}{39}\sqrt{13}e^{36}$	$(-\frac{2}{13}, \frac{2}{13}, \frac{2}{39}, \frac{4}{13}, 0, -\frac{4}{39}, -\frac{2}{13}, \frac{2}{13}, -\frac{2}{39})$ $+ \frac{2}{39}\sqrt{78}e^2 \otimes e_9 + \frac{4}{39}\sqrt{15}e^3 \otimes e_7$	{134589, 2457}
953:12	$0, 0, 0, 0, \frac{6}{1147}\sqrt{4795}e^{12}, \frac{10}{1147}\sqrt{4247}e^{13}, \frac{2}{3441}\sqrt{663765}e^{15},$ $\frac{4}{1147}\sqrt{15070}e^{14} + \frac{2}{1147}\sqrt{91790}e^{25}, \frac{2}{3441}\sqrt{785695}e^{36}$	$(-\frac{55}{1147}, -\frac{51}{1147}, \frac{29}{111}, \frac{102}{1147}, -\frac{106}{1147}, \frac{734}{3441}, -\frac{161}{1147}, -\frac{157}{1147}, \frac{1633}{3441})$ $+ \frac{10}{3441}\sqrt{80967}e^3 \otimes e_8$	{1234579, 1349, 2478, 458}
953:12	$0, 0, 0, 0, \frac{82}{5261}\sqrt{357}e^{12}, \frac{123}{5261}\sqrt{302}e^{13}, \frac{82}{5261}\sqrt{345}e^{15},$ $\frac{123}{5261}\sqrt{310}e^{14} + \frac{41}{5261}\sqrt{2242}e^{25}, \frac{82}{5261}\sqrt{678}e^{36}$	$(-\frac{738}{5261}, \frac{205}{5261}, \frac{1353}{5261}, \frac{410}{5261}, -\frac{533}{5261}, \frac{615}{5261}, -\frac{1271}{5261}, -\frac{328}{5261}, \frac{1968}{5261})$ $+ \frac{1968}{5261}\sqrt{3}e^3 \otimes e_8 + \frac{41}{5261}\sqrt{2386}e^4 \otimes e_7$	{1349, 458}
953:12	$0, 0, 0, 0, \frac{168}{4793}\sqrt{41}e^{12}, \frac{84}{4793}\sqrt{21}e^{13}, \frac{84}{4793}\sqrt{370}e^{15},$ $\frac{1008}{4793}\sqrt{2}e^{14} + \frac{42}{4793}\sqrt{715}e^{25}, \frac{84}{4793}\sqrt{253}e^{36}$	$(-\frac{168}{4793}, \frac{546}{4793}, -\frac{441}{4793}, \frac{1092}{4793}, \frac{378}{4793}, -\frac{609}{4793}, \frac{210}{4793}, \frac{924}{4793}, -\frac{1050}{4793})$ $+ \frac{42}{4793}\sqrt{1757}e^4 \otimes e_7 - \frac{42}{4793}\sqrt{2549}e^1 \otimes e_9$	{13456, 145, 3489, 4689}
953:12	$0, 0, 0, 0, \frac{168}{4793}\sqrt{41}e^{12}, \frac{84}{4793}\sqrt{21}e^{13}, \frac{84}{4793}\sqrt{370}e^{15},$ $\frac{1008}{4793}\sqrt{2}e^{14} + \frac{42}{4793}\sqrt{715}e^{25}, \frac{84}{4793}\sqrt{253}e^{36}$	$(-\frac{168}{4793}, \frac{546}{4793}, -\frac{441}{4793}, \frac{1092}{4793}, \frac{378}{4793}, -\frac{609}{4793}, \frac{210}{4793}, \frac{924}{4793}, -\frac{1050}{4793})$ $+ \frac{42}{4793}\sqrt{1757}e^4 \otimes e_7 + \frac{42}{4793}\sqrt{2549}e^1 \otimes e_9$	{13456, 145, 3489, 4689}
953:12	$0, 0, 0, 0, \frac{138}{1157}\sqrt{19}e^{12}, \frac{23}{1157}\sqrt{138}e^{13}, \frac{184}{1157}\sqrt{3}e^{15},$ $\frac{115}{1157}\sqrt{6}e^{14} + \frac{23}{1157}\sqrt{574}e^{25}, \frac{322}{1157}\sqrt{3}e^{36}$	$(-\frac{138}{1157}, \frac{253}{1157}, -\frac{69}{1157}, \frac{506}{1157}, \frac{115}{1157}, -\frac{207}{1157}, -\frac{23}{1157}, \frac{368}{1157}, -\frac{276}{1157})$ $+ \frac{115}{1157}\sqrt{22}e^4 \otimes e_7 + \frac{506}{1157}\sqrt{3}e^2 \otimes e_9$	{349, 469}
953:12	$0, 0, 0, 0, \frac{2}{3461}\sqrt{1665295}e^{12}, \frac{2}{3461}\sqrt{849585}e^{13}, \frac{4}{3461}\sqrt{407855}e^{15},$ $\frac{2}{3461}\sqrt{1155815}e^{14} + \frac{2}{3461}\sqrt{4065}e^{25}, \frac{4}{3461}\sqrt{4065}e^{36}$	$(\frac{1254}{3461}, -\frac{728}{3461}, -\frac{243}{3461}, -\frac{1456}{3461}, \frac{526}{3461}, \frac{1011}{3461}, \frac{1780}{3461}, -\frac{202}{3461}, \frac{768}{3461})$ $+ \frac{10}{3461}\sqrt{156367}e^1 \otimes e_4$	{234567, 2457, 346, 4}
953:12	$0, 0, 0, 0, \frac{779}{10413}\sqrt{10}e^{12}, \frac{41}{10413}\sqrt{4938}e^{13}, \frac{41}{10413}\sqrt{6810}e^{15},$ $\frac{82}{10413}\sqrt{1102}e^{14} + \frac{41}{10413}\sqrt{134}e^{25}, \frac{287}{10413}\sqrt{78}e^{36}$	$(\frac{205}{10413}, -\frac{82}{1157}, \frac{451}{3471}, -\frac{164}{1157}, -\frac{41}{801}, \frac{1558}{10413}, -\frac{328}{10413}, \frac{1271}{10413}, \frac{2911}{10413})$ $+ \frac{164}{3471}\sqrt{65}e^1 \otimes e_4 + \frac{41}{10413}\sqrt{9466}e^3 \otimes e_7$	{12679, 1359}
953:13	$0, 0, 0, 0, \frac{42}{2473}\sqrt{134}e^{12}, \frac{21}{2473}\sqrt{273}e^{13}, \frac{21}{2473}\sqrt{1513}e^{15},$ $\frac{21}{2473}\sqrt{838}e^{14} + \frac{21}{2473}\sqrt{1245}e^{24}, \frac{21}{2473}\sqrt{1042}e^{36}$	$(\frac{273}{2473}, -\frac{84}{2473}, -\frac{399}{2473}, \frac{546}{2473}, \frac{189}{2473}, -\frac{126}{2473}, \frac{105}{2473}, \frac{462}{2473}, -\frac{525}{2473})$ $+ \frac{21}{2473}\sqrt{2609}e^2 \otimes e_9 + \frac{42}{2473}\sqrt{455}e^4 \otimes e_7$	{23456, 245}
953:13	$0, 0, 0, 0, \frac{140}{2719}\sqrt{22}e^{12}, \frac{280}{2719}\sqrt{22}e^{13}, \frac{35}{2719}\sqrt{66}e^{15},$ $\frac{175}{2719}\sqrt{22}e^{14} + \frac{35}{2719}\sqrt{1430}e^{24}, \frac{35}{2719}\sqrt{1474}e^{36}$	$(-\frac{420}{2719}, \frac{385}{2719}, \frac{770}{2719}, -\frac{840}{2719}, -\frac{35}{2719}, \frac{350}{2719}, \frac{350}{2719}, -\frac{455}{2719}, \frac{1120}{2719})$ $+ \frac{70}{2719}\sqrt{254}e^2 \otimes e_4 + \frac{70}{2719}\sqrt{914}e^3 \otimes e_8$	{146789, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:13	$0, 0, 0, 0, \frac{43}{7885}\sqrt{3066}e^{12}, \frac{43}{7885}\sqrt{4630}e^{13}, \frac{43}{7885}\sqrt{218}e^{25},$ $\frac{43}{7885}\sqrt{138}e^{15} + \frac{86}{7885}\sqrt{1563}e^{24}, \frac{43}{7885}\sqrt{3562}e^{36}$	$(\frac{129}{7885}, -\frac{172}{1577}, \frac{1247}{7885}, \frac{258}{7885}, -\frac{731}{7885}, \frac{1376}{7885}, -\frac{1591}{7885}, -\frac{602}{7885}, \frac{2623}{7885})$ $+\frac{43}{7885}\sqrt{9002}e^3 \otimes e_8 + \frac{86}{7885}\sqrt{1271}e^4 \otimes e_7$	{278, 3567}
953:13	$0, 0, 0, 0, \frac{1}{497}\sqrt{10}e^{12}, \frac{3}{497}\sqrt{70}e^{13}, \frac{1}{1491}\sqrt{2562}e^{25},$ $\frac{1}{497}\sqrt{14}e^{15} + \frac{2}{1491}\sqrt{2310}e^{24}, \frac{1}{213}\sqrt{142}e^{36}$	$(\frac{1}{71}, -\frac{2}{71}, \frac{1}{213}, \frac{2}{71}, -\frac{1}{71}, \frac{4}{213}, -\frac{3}{71}, 0, \frac{5}{213})$ $+\frac{1}{1491}\sqrt{11046}e^3 \otimes e_8 + \frac{2}{1491}\sqrt{2037}e^4 \otimes e_9$	{2346, 458}
953:13	$0, 0, 0, 0, \frac{2}{69}\sqrt{65}e^{12}, \frac{1}{69}\sqrt{598}e^{13}, \frac{1}{69}\sqrt{390}e^{25},$ $\frac{1}{69}\sqrt{390}e^{15} + \frac{2}{69}\sqrt{91}e^{24}, \frac{1}{69}\sqrt{598}e^{36}$	$(\frac{3}{23}, -\frac{4}{23}, -\frac{2}{69}, \frac{6}{23}, -\frac{1}{23}, \frac{7}{69}, -\frac{5}{23}, \frac{2}{69}, \frac{5}{69})$ $+\frac{1}{69}\sqrt{962}e^3 \otimes e_7 + \frac{5}{69}\sqrt{26}e^4 \otimes e_9$	{123589, 139}
953:13	$0, 0, 0, 0, \frac{2}{1617}\sqrt{490195}e^{12}, \frac{2}{1617}\sqrt{119527}e^{13}, \frac{1}{1617}\sqrt{1748586}e^{25},$ $\frac{1}{1617}\sqrt{158474}e^{15} + \frac{2}{1617}\sqrt{170}e^{24}, \frac{17}{1617}\sqrt{790}e^{36}$	$(-\frac{356}{1617}, \frac{631}{1617}, \frac{116}{539}, -\frac{712}{1617}, \frac{25}{147}, -\frac{8}{1617}, \frac{302}{539}, -\frac{27}{539}, \frac{340}{1617})$ $+\frac{2}{1617}\sqrt{914583}e^2 \otimes e_4$	{134567, 1457, 349, 469}
953:13	$0, 0, 0, 0, \frac{2}{559}\sqrt{15257}e^{12}, \frac{2}{1677}\sqrt{243309}e^{13}, \frac{1}{559}\sqrt{36938}e^{25},$ $\frac{1}{1677}\sqrt{322806}e^{15} + \frac{2}{559}\sqrt{4818}e^{24}, \frac{1}{1677}\sqrt{897754}e^{36}$	$(-\frac{70}{559}, \frac{1}{13}, \frac{512}{1677}, -\frac{140}{559}, -\frac{27}{559}, \frac{302}{1677}, \frac{16}{559}, -\frac{97}{559}, \frac{814}{1677})$ $+\frac{2}{559}\sqrt{63437}e^3 \otimes e_8$	{1234579, 146789, 2346, 458}
953:13	$0, 0, 0, 0, \frac{4}{3261}\sqrt{151697}e^{12}, \frac{2}{3261}\sqrt{891845}e^{13}, \frac{2}{3261}\sqrt{1565313}e^{25},$ $\frac{2}{3261}\sqrt{1128559}e^{15} + \frac{2}{3261}\sqrt{1868707}e^{24}, \frac{2}{3261}\sqrt{78349}e^{36}$	$(\frac{1070}{3261}, -\frac{1132}{3261}, -\frac{53}{1087}, \frac{2140}{3261}, -\frac{62}{3261}, \frac{911}{3261}, -\frac{398}{1087}, \frac{336}{1087}, \frac{752}{3261})$ $+\frac{2}{3261}\sqrt{4495899}e^4 \otimes e_7$	{23678, 278, 3567, 57}
953:13	$0, 0, 0, 0, \frac{39}{7213}\sqrt{1662}e^{12}, \frac{39}{7213}\sqrt{3178}e^{13}, \frac{78}{7213}\sqrt{1489}e^{25},$ $\frac{390}{7213}\sqrt{21}e^{15} + \frac{39}{7213}\sqrt{1342}e^{24}, \frac{78}{7213}\sqrt{758}e^{36}$	$(-\frac{624}{7213}, \frac{273}{7213}, \frac{1443}{7213}, -\frac{1248}{7213}, -\frac{351}{7213}, \frac{819}{7213}, -\frac{78}{7213}, -\frac{975}{7213}, \frac{2262}{7213})$ $+\frac{39}{7213}\sqrt{5330}e^2 \otimes e_4 + \frac{78}{7213}\sqrt{1901}e^3 \otimes e_7$	{12679, 2356}
953:13	$0, 0, 0, 0, \frac{2}{3273}\sqrt{656643}e^{12}, \frac{2}{3273}\sqrt{678678}e^{13}, \frac{6}{3273}\sqrt{2938}e^{25},$ $\frac{2}{3273}\sqrt{577317}e^{15} + \frac{10}{3273}\sqrt{83733}e^{24}, \frac{2}{3273}\sqrt{1602679}e^{36}$	$(\frac{308}{1091}, -\frac{90}{1091}, -\frac{1007}{3273}, \frac{616}{1091}, \frac{218}{1091}, -\frac{83}{3273}, \frac{128}{1091}, \frac{526}{1091}, -\frac{1090}{3273})$ $+\frac{2}{1091}\sqrt{445107}e^4 \otimes e_9$	{1235789, 1256789, 1379, 1679}
953:13	$0, 0, 0, 0, \frac{130}{669}\sqrt{3}e^{12}, \frac{26}{669}\sqrt{303}e^{13}, \frac{26}{223}\sqrt{30}e^{25},$ $\frac{26}{669}\sqrt{165}e^{15} + \frac{52}{669}\sqrt{6}e^{24}, \frac{26}{669}\sqrt{223}e^{36}$	$(\frac{13}{223}, -\frac{39}{223}, \frac{143}{669}, \frac{26}{223}, -\frac{26}{223}, \frac{182}{669}, \frac{65}{223}, -\frac{13}{223}, \frac{325}{669})$ $+\frac{78}{223}\sqrt{7}e^3 \otimes e_7$	{123589, 139, 278, 57}
953:13	$0, 0, 0, 0, \frac{38}{3965}\sqrt{1645}e^{12}, \frac{38}{3965}\sqrt{38}e^{13}, \frac{38}{3965}\sqrt{643}e^{25},$ $\frac{38}{3965}\sqrt{929}e^{15} + \frac{76}{3965}\sqrt{233}e^{24}, \frac{76}{3965}\sqrt{205}e^{36}$	$(-\frac{76}{3965}, \frac{114}{793}, -\frac{361}{3965}, -\frac{152}{3965}, \frac{38}{305}, -\frac{437}{3965}, \frac{1064}{3965}, \frac{418}{3965}, -\frac{798}{3965})$ $+\frac{38}{3965}\sqrt{1505}e^2 \otimes e_4 - \frac{38}{3965}\sqrt{2039}e^1 \otimes e_9$	{134567, 1457, 349, 469}
953:13	$0, 0, 0, 0, \frac{38}{3965}\sqrt{1645}e^{12}, \frac{38}{3965}\sqrt{38}e^{13}, \frac{38}{3965}\sqrt{643}e^{25},$ $\frac{38}{3965}\sqrt{929}e^{15} + \frac{76}{3965}\sqrt{233}e^{24}, \frac{76}{3965}\sqrt{205}e^{36}$	$(-\frac{76}{3965}, \frac{114}{793}, -\frac{361}{3965}, -\frac{152}{3965}, \frac{38}{305}, -\frac{437}{3965}, \frac{1064}{3965}, \frac{418}{3965}, -\frac{798}{3965})$ $+\frac{38}{3965}\sqrt{1505}e^2 \otimes e_4 + \frac{38}{3965}\sqrt{2039}e^1 \otimes e_9$	{134567, 1457, 349, 469}
953:13	$0, 0, 0, 0, \frac{14}{447}\sqrt{3}e^{12}, \frac{14}{447}\sqrt{42}e^{13}, \frac{7}{447}\sqrt{66}e^{25},$ $\frac{7}{447}\sqrt{6}e^{15} + \frac{7}{149}\sqrt{30}e^{24}, \frac{7}{447}\sqrt{298}e^{36}$	$(-\frac{14}{149}, \frac{21}{149}, \frac{28}{447}, -\frac{28}{149}, \frac{7}{149}, -\frac{14}{447}, \frac{28}{149}, -\frac{7}{149}, \frac{14}{447})$ $+\frac{14}{447}\sqrt{105}e^3 \otimes e_8 + \frac{14}{447}\sqrt{93}e^2 \otimes e_9$	{13579, 258}
953:14	$0, 0, 0, 0, \frac{8}{1111}\sqrt{2721}e^{12}, \frac{5}{1111}\sqrt{1814}e^{13}, \frac{1}{1111}\sqrt{894302}e^{15},$ $\frac{1}{1111}\sqrt{462570}e^{25} + \frac{1}{1111}\sqrt{810858}e^{34}, \frac{2}{1111}\sqrt{62583}e^{16}$	$(-\frac{301}{1111}, \frac{334}{1111}, \frac{639}{1111}, -\frac{272}{1111}, \frac{3}{101}, \frac{338}{1111}, -\frac{268}{1111}, \frac{367}{1111}, \frac{37}{1111})$ $+\frac{12}{1111}\sqrt{11791}e^3 \otimes e_7$	{12679, 1345, 245789, 368}
953:14	$0, 0, 0, 0, \frac{2}{161}\sqrt{1417}e^{12}, \frac{1}{161}\sqrt{5014}e^{13}, \frac{3}{161}\sqrt{1090}e^{15},$ $\frac{1}{161}\sqrt{16786}e^{25} + \frac{1}{161}\sqrt{218}e^{34}, \frac{3}{161}\sqrt{3270}e^{16}$	$(-\frac{39}{161}, \frac{58}{161}, \frac{27}{161}, \frac{50}{161}, \frac{19}{161}, -\frac{12}{161}, -\frac{20}{161}, \frac{11}{23}, -\frac{51}{161})$ $+\frac{4}{161}\sqrt{1853}e^2 \otimes e_9$	{1268, 1345789, 245, 3679}
953:14	$0, 0, 0, 0, \frac{2}{35}\sqrt{78}e^{12}, \frac{16}{35}\sqrt{3}e^{13}, \frac{6}{35}\sqrt{31}e^{15},$ $\frac{6}{35}\sqrt{23}e^{25} + \frac{1}{35}\sqrt{906}e^{34}, \frac{3}{35}\sqrt{70}e^{16}$	$(0, \frac{3}{35}, -\frac{6}{35}, \frac{12}{35}, \frac{3}{35}, -\frac{6}{35}, \frac{3}{35}, \frac{6}{35}, -\frac{6}{35})$ $+\frac{2}{35}\sqrt{123}e^2 \otimes e_9 + \frac{2}{35}\sqrt{273}e^4 \otimes e_7$	{235789, 468}
953:14	$0, 0, 0, 0, \frac{360}{5741}e^{12}, \frac{45}{5741}\sqrt{186}e^{13}, \frac{45}{5741}\sqrt{2558}e^{15},$ $\frac{45}{5741}\sqrt{1994}e^{25} + \frac{135}{5741}\sqrt{506}e^{34}, \frac{90}{5741}\sqrt{281}e^{16}$	$(-\frac{1215}{5741}, \frac{1530}{5741}, \frac{1125}{5741}, \frac{720}{5741}, \frac{315}{5741}, -\frac{90}{5741}, -\frac{900}{5741}, \frac{1845}{5741}, -\frac{1305}{5741})$ $+\frac{1260}{5741}\sqrt{7}e^3 \otimes e_7 + \frac{720}{5741}\sqrt{19}e^4 \otimes e_9$	{1279, 13456}
953:14	$0, 0, 0, 0, \frac{9}{301}\sqrt{154}e^{12}, \frac{9}{301}\sqrt{110}e^{13}, \frac{9}{301}\sqrt{22}e^{15},$ $\frac{18}{301}\sqrt{55}e^{25} + \frac{18}{301}\sqrt{22}e^{34}, \frac{27}{301}\sqrt{22}e^{16}$	$(-\frac{81}{301}, \frac{99}{301}, \frac{99}{301}, \frac{18}{301}, \frac{18}{301}, \frac{18}{301}, -\frac{9}{43}, \frac{117}{301}, -\frac{9}{43})$ $+\frac{9}{301}\sqrt{434}e^3 \otimes e_7 + \frac{9}{301}\sqrt{610}e^2 \otimes e_9$	{124678, 13589, 257, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:14	$0, 0, 0, 0, \frac{9}{301}\sqrt{154}e^{12}, \frac{9}{301}\sqrt{110}e^{13}, \frac{9}{301}\sqrt{22}e^{15},$ $\frac{18}{301}\sqrt{55}e^{25} + \frac{18}{301}\sqrt{22}e^{34}, \frac{27}{301}\sqrt{22}e^{16}$	$(-\frac{81}{301}, \frac{99}{301}, \frac{99}{301}, \frac{18}{301}, \frac{18}{301}, \frac{18}{301}, -\frac{9}{43}, \frac{117}{301}, -\frac{9}{43})$ $-\frac{9}{301}\sqrt{434}e^3 \otimes e_7 + \frac{9}{301}\sqrt{610}e^2 \otimes e_9$	{124678, 13589, 257, 3469}
953:14	$0, 0, 0, 0, \frac{1}{1007}\sqrt{240690}e^{12}, \frac{1}{1007}\sqrt{411090}e^{13}, \frac{3}{1007}\sqrt{63190}e^{15},$ $\frac{2}{1007}\sqrt{82715}e^{25} + \frac{6}{1007}\sqrt{13490}e^{34}, \frac{3}{1007}\sqrt{27690}e^{16}$	$(-\frac{123}{1007}, \frac{214}{1007}, -\frac{18}{1007}, \frac{17}{53}, \frac{91}{1007}, -\frac{141}{1007}, -\frac{32}{1007}, \frac{305}{1007}, -\frac{264}{1007})$ $+\frac{20}{1007}\sqrt{1633}e^4 \otimes e_7$	{127, 134569, 235789, 468}
953:14	$0, 0, 0, 0, \frac{14}{2005}\sqrt{570}e^{12}, \frac{14}{2005}\sqrt{537}e^{13}, \frac{42}{2005}\sqrt{115}e^{15},$ $\frac{14}{2005}\sqrt{347}e^{25} + \frac{42}{2005}\sqrt{107}e^{34}, \frac{84}{2005}\sqrt{6}e^{16}$	$(\frac{21}{401}, -\frac{49}{2005}, -\frac{252}{2005}, \frac{259}{2005}, \frac{56}{2005}, -\frac{147}{2005}, \frac{161}{2005}, \frac{7}{2005}, -\frac{42}{2005})$ $+\frac{28}{2005}\sqrt{262}e^4 \otimes e_7 + \frac{42}{2005}\sqrt{87}e^1 \otimes e_8$	{127, 134569, 235789, 468}
953:14	$0, 0, 0, 0, \frac{14}{2005}\sqrt{570}e^{12}, \frac{14}{2005}\sqrt{537}e^{13}, \frac{42}{2005}\sqrt{115}e^{15},$ $\frac{14}{2005}\sqrt{347}e^{25} + \frac{42}{2005}\sqrt{107}e^{34}, \frac{84}{2005}\sqrt{6}e^{16}$	$(\frac{21}{401}, -\frac{49}{2005}, -\frac{252}{2005}, \frac{259}{2005}, \frac{56}{2005}, -\frac{147}{2005}, \frac{161}{2005}, \frac{7}{2005}, -\frac{42}{2005})$ $+\frac{28}{2005}\sqrt{262}e^4 \otimes e_7 - \frac{42}{2005}\sqrt{87}e^1 \otimes e_8$	{127, 134569, 235789, 468}
953:14	$0, 0, 0, 0, \frac{30}{581}e^{12}, \frac{5}{581}\sqrt{3342}e^{13}, \frac{5}{581}\sqrt{3210}e^{15},$ $\frac{5}{581}\sqrt{4026}e^{25} + \frac{45}{581}\sqrt{26}e^{34}, \frac{60}{581}\sqrt{23}e^{16}$	$(-\frac{135}{581}, \frac{150}{581}, \frac{195}{581}, -\frac{30}{581}, \frac{15}{581}, \frac{60}{581}, -\frac{120}{581}, \frac{165}{581}, -\frac{75}{581})$ $+\frac{20}{581}\sqrt{231}e^3 \otimes e_4 + \frac{20}{581}\sqrt{357}e^2 \otimes e_9$	{245, 3679}
953:14	$0, 0, 0, 0, \frac{1}{133}\sqrt{8195}e^{12}, \frac{5}{133}\sqrt{894}e^{13}, \frac{1}{133}\sqrt{11026}e^{15},$ $\frac{1}{133}\sqrt{8493}e^{25} + \frac{1}{133}\sqrt{8195}e^{34}, \frac{1}{133}\sqrt{8493}e^{16}$	$(-\frac{18}{133}, \frac{20}{133}, \frac{9}{14}, -\frac{127}{266}, \frac{2}{133}, \frac{135}{266}, -\frac{16}{133}, \frac{22}{133}, \frac{99}{266})$ $+\frac{4}{133}\sqrt{2086}e^3 \otimes e_4$	{123579, 124567, 139, 146}
953:14	$0, 0, 0, 0, \frac{1}{139}\sqrt{1965}e^{12}, \frac{1}{139}\sqrt{1310}e^{13}, \frac{1}{139}\sqrt{1310}e^{15},$ $\frac{1}{139}\sqrt{1965}e^{25} + \frac{1}{139}\sqrt{13231}e^{34}, \frac{1}{139}\sqrt{13231}e^{16}$	$(-\frac{10}{139}, \frac{38}{139}, -\frac{45}{278}, \frac{177}{278}, \frac{28}{139}, -\frac{65}{278}, \frac{18}{139}, \frac{66}{139}, -\frac{85}{278})$ $+\frac{2}{139}\sqrt{7598}e^4 \otimes e_9$	{2347, 2679, 345, 569}
953:15	$0, 0, 0, 0, \frac{32}{3755}\sqrt{174}e^{12}, \frac{32}{3755}\sqrt{263}e^{13}, \frac{16}{3755}\sqrt{1299}e^{25},$ $\frac{32}{3755}\sqrt{402}e^{15} + \frac{16}{3755}\sqrt{1437}e^{34}, \frac{16}{3755}\sqrt{1367}e^{16}$	$(\frac{216}{3755}, -\frac{272}{3755}, -\frac{40}{751}, \frac{72}{751}, -\frac{56}{3755}, \frac{16}{3755}, -\frac{328}{3755}, \frac{32}{751}, \frac{232}{3755})$ $+\frac{16}{3755}\sqrt{1466}e^4 \otimes e_9 + \frac{16}{3755}\sqrt{1958}e^3 \otimes e_7$	{123589, 2478}
953:15	$0, 0, 0, 0, \frac{16}{699}\sqrt{310}e^{12}, \frac{2}{699}\sqrt{46965}e^{13}, \frac{20}{699}\sqrt{527}e^{25},$ $\frac{2}{699}\sqrt{49755}e^{15} + \frac{2}{699}\sqrt{37045}e^{34}, \frac{4}{699}\sqrt{7130}e^{16}$	$(\frac{65}{699}, -\frac{109}{699}, \frac{157}{699}, -\frac{136}{699}, -\frac{44}{699}, \frac{74}{233}, -\frac{51}{233}, \frac{7}{233}, \frac{287}{699})$ $+\frac{4}{699}\sqrt{23095}e^3 \otimes e_7$	{123589, 1349, 2478, 57}
953:15	$0, 0, 0, 0, \frac{7}{72}\sqrt{30}e^{12}, \frac{7}{36}e^{13}, \frac{7}{36}\sqrt{15}e^{25},$ $\frac{7}{12}e^{15} + \frac{7}{72}\sqrt{19}e^{34}, \frac{35}{72}\sqrt{2}e^{16}$	$(-\frac{23}{144}, \frac{3}{8}, \frac{1}{72}, \frac{1}{24}, \frac{31}{144}, -\frac{7}{48}, \frac{85}{144}, \frac{1}{18}, -\frac{11}{36})$ $+\frac{7}{72}\sqrt{119}e^2 \otimes e_9$	{1267, 135789, 25, 3689}
953:15	$0, 0, 0, 0, \frac{36}{3581}\sqrt{19}e^{12}, \frac{18}{3581}\sqrt{919}e^{13}, \frac{18}{3581}\sqrt{1658}e^{25},$ $\frac{18}{3581}\sqrt{1393}e^{15} + \frac{18}{3581}\sqrt{881}e^{34}, \frac{108}{3581}\sqrt{30}e^{16}$	$(-\frac{171}{3581}, \frac{189}{3581}, \frac{369}{3581}, -\frac{522}{3581}, \frac{18}{3581}, \frac{198}{3581}, \frac{207}{3581}, -\frac{153}{3581}, \frac{27}{3581})$ $+\frac{18}{3581}\sqrt{1810}e^3 \otimes e_7 + \frac{36}{3581}\sqrt{353}e^2 \otimes e_9$	{1349, 2478}
953:15	$0, 0, 0, 0, \frac{8}{31}\sqrt{3}e^{12}, \frac{4}{31}\sqrt{6}e^{13}, \frac{4}{31}\sqrt{15}e^{25},$ $\frac{4}{31}\sqrt{30}e^{15} + \frac{4}{31}\sqrt{39}e^{34}, \frac{12}{31}\sqrt{5}e^{16}$	$(\frac{2}{31}, \frac{4}{31}, -\frac{10}{31}, \frac{18}{31}, \frac{6}{31}, -\frac{8}{31}, \frac{10}{31}, \frac{8}{31}, -\frac{6}{31})$ $+\frac{4}{31}\sqrt{78}e^4 \otimes e_9$	{123589, 124568, 236789, 2478}
953:15	$0, 0, 0, 0, \frac{8}{461}\sqrt{111}e^{12}, \frac{8}{461}\sqrt{3}e^{13}, \frac{12}{461}\sqrt{197}e^{25},$ $\frac{12}{461}\sqrt{130}e^{15} + \frac{4}{461}\sqrt{1119}e^{34}, \frac{12}{461}\sqrt{115}e^{16}$	$(\frac{12}{461}, \frac{18}{461}, -\frac{78}{461}, \frac{120}{461}, \frac{30}{461}, -\frac{66}{461}, \frac{48}{461}, \frac{42}{461}, -\frac{54}{461})$ $+\frac{20}{461}\sqrt{78}e^2 \otimes e_9 + \frac{4}{461}\sqrt{1770}e^4 \otimes e_7$	{1267, 135789}
953:15	$0, 0, 0, 0, \frac{32}{2811}\sqrt{71}e^{12}, \frac{8}{2811}\sqrt{142}e^{13}, \frac{8}{2811}\sqrt{9443}e^{25},$ $\frac{16}{2811}\sqrt{13845}e^{15} + \frac{8}{2811}\sqrt{84561}e^{34}, \frac{8}{2811}\sqrt{29465}e^{16}$	$(\frac{812}{2811}, -\frac{244}{937}, -\frac{728}{2811}, \frac{540}{937}, \frac{80}{2811}, \frac{28}{937}, -\frac{652}{2811}, \frac{892}{2811}, \frac{896}{2811})$ $+\frac{8}{2811}\sqrt{165430}e^4 \otimes e_7$	{1267, 135789, 234569, 48}
953:15	$0, 0, 0, 0, \frac{8}{2679}\sqrt{4411}e^{12}, \frac{8}{2679}\sqrt{121503}e^{13}, \frac{4}{2679}\sqrt{125513}e^{25},$ $\frac{4}{2679}\sqrt{188470}e^{15} + \frac{4}{2679}\sqrt{36491}e^{34}, \frac{4}{2679}\sqrt{178445}e^{16}$	$(-\frac{322}{2679}, \frac{184}{893}, \frac{82}{141}, -\frac{550}{893}, \frac{230}{2679}, \frac{412}{893}, \frac{782}{2679}, -\frac{92}{2679}, \frac{914}{2679})$ $+\frac{4}{2679}\sqrt{886210}e^3 \otimes e_4$	{139, 146, 35679, 457}
953:15	$0, 0, 0, 0, \frac{9}{178}\sqrt{26}e^{12}, \frac{3}{178}\sqrt{582}e^{13}, \frac{3}{178}\sqrt{978}e^{25},$ $\frac{15}{178}\sqrt{30}e^{15} + \frac{9}{178}\sqrt{21}e^{34}, \frac{45}{89}e^{16}$	$(-\frac{63}{356}, \frac{27}{89}, \frac{18}{89}, -\frac{45}{178}, \frac{45}{356}, \frac{9}{356}, \frac{153}{356}, -\frac{9}{178}, -\frac{27}{178})$ $+\frac{3}{178}\sqrt{1785}e^2 \otimes e_9 + \frac{3}{89}\sqrt{255}e^3 \otimes e_4$	{135789, 3689}
953:16	$0, 0, 0, 0, \frac{50}{2581}\sqrt{489}e^{12}, \frac{50}{2581}\sqrt{1203}e^{13}, \frac{100}{2581}\sqrt{402}e^{15},$ $\frac{200}{2581}\sqrt{65}e^{25} + \frac{200}{2581}\sqrt{111}e^{34}, \frac{300}{2581}\sqrt{14}e^{36}$	$(-\frac{630}{2581}, \frac{815}{2581}, \frac{195}{2581}, \frac{805}{2581}, \frac{185}{2581}, -\frac{15}{89}, -\frac{5}{29}, \frac{1000}{2581}, -\frac{240}{2581})$ $+\frac{50}{2581}\sqrt{2317}e^4 \otimes e_7$	{1279, 134569, 23578, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:16	$0, 0, 0, 0, \frac{10}{3421}\sqrt{849}e^{12}, \frac{10}{3421}\sqrt{843}e^{13}, \frac{20}{3421}\sqrt{402}e^{15},$ $\frac{40}{3421}\sqrt{35}e^{25} + \frac{40}{3421}\sqrt{111}e^{34}, \frac{60}{3421}\sqrt{14}e^{36}$	$(\frac{90}{3421}, -\frac{25}{3421}, -\frac{15}{311}, \frac{205}{3421}, \frac{65}{3421}, -\frac{75}{3421}, \frac{155}{3421}, \frac{40}{3421}, -\frac{240}{3421})$ $+ \frac{10}{3421}\sqrt{1717}e^4 \otimes e_7 + \frac{120}{3421}\sqrt{10}e^1 \otimes e_8$	{1279, 134569, 23578, 468}
953:16	$0, 0, 0, 0, \frac{10}{3421}\sqrt{849}e^{12}, \frac{10}{3421}\sqrt{843}e^{13}, \frac{20}{3421}\sqrt{402}e^{15},$ $\frac{40}{3421}\sqrt{35}e^{25} + \frac{40}{3421}\sqrt{111}e^{34}, \frac{60}{3421}\sqrt{14}e^{36}$	$(\frac{90}{3421}, -\frac{25}{3421}, -\frac{15}{311}, \frac{205}{3421}, \frac{65}{3421}, -\frac{75}{3421}, \frac{155}{3421}, \frac{40}{3421}, -\frac{240}{3421})$ $+ \frac{10}{3421}\sqrt{1717}e^4 \otimes e_7 - \frac{120}{3421}\sqrt{10}e^1 \otimes e_8$	{1279, 134569, 23578, 468}
953:16	$0, 0, 0, 0, \frac{6}{401}\sqrt{445}e^{12}, \frac{18}{401}\sqrt{35}e^{13}, \frac{12}{401}\sqrt{230}e^{15},$ $\frac{12}{401}\sqrt{110}e^{25} + \frac{60}{401}\sqrt{6}e^{34}, \frac{12}{401}\sqrt{35}e^{36}$	$(-\frac{6}{401}, \frac{39}{401}, -\frac{45}{401}, \frac{117}{401}, \frac{33}{401}, -\frac{51}{401}, \frac{27}{401}, \frac{72}{401}, -\frac{96}{401})$ $- \frac{12}{401}\sqrt{205}e^1 \otimes e_9 + \frac{6}{401}\sqrt{985}e^4 \otimes e_7$	{127, 13456, 235789, 4689}
953:16	$0, 0, 0, 0, \frac{6}{401}\sqrt{445}e^{12}, \frac{18}{401}\sqrt{35}e^{13}, \frac{12}{401}\sqrt{230}e^{15},$ $\frac{12}{401}\sqrt{110}e^{25} + \frac{60}{401}\sqrt{6}e^{34}, \frac{12}{401}\sqrt{35}e^{36}$	$(-\frac{6}{401}, \frac{39}{401}, -\frac{45}{401}, \frac{117}{401}, \frac{33}{401}, -\frac{51}{401}, \frac{27}{401}, \frac{72}{401}, -\frac{96}{401})$ $+ \frac{12}{401}\sqrt{205}e^1 \otimes e_9 + \frac{6}{401}\sqrt{985}e^4 \otimes e_7$	{127, 13456, 235789, 4689}
953:16	$0, 0, 0, 0, \frac{21}{1019}\sqrt{74}e^{12}, \frac{14}{1019}\sqrt{86}e^{13}, \frac{28}{1019}\sqrt{78}e^{15},$ $\frac{14}{1019}\sqrt{3}e^{25} + \frac{7}{1019}\sqrt{1130}e^{34}, \frac{7}{1019}\sqrt{354}e^{36}$	$(\frac{21}{1019}, -\frac{49}{1019}, \frac{91}{1019}, -\frac{168}{1019}, -\frac{28}{1019}, \frac{112}{1019}, -\frac{7}{1019}, -\frac{77}{1019}, \frac{203}{1019})$ $+ \frac{119}{1019}\sqrt{6}e^3 \otimes e_7 + \frac{14}{1019}\sqrt{471}e^1 \otimes e_8$	{12679, 13459, 24578, 368}
953:16	$0, 0, 0, 0, \frac{21}{1019}\sqrt{74}e^{12}, \frac{14}{1019}\sqrt{86}e^{13}, \frac{28}{1019}\sqrt{78}e^{15},$ $\frac{14}{1019}\sqrt{3}e^{25} + \frac{7}{1019}\sqrt{1130}e^{34}, \frac{7}{1019}\sqrt{354}e^{36}$	$(\frac{21}{1019}, -\frac{49}{1019}, \frac{91}{1019}, -\frac{168}{1019}, -\frac{28}{1019}, \frac{112}{1019}, -\frac{7}{1019}, -\frac{77}{1019}, \frac{203}{1019})$ $+ \frac{119}{1019}\sqrt{6}e^3 \otimes e_7 - \frac{14}{1019}\sqrt{471}e^1 \otimes e_8$	{12679, 13459, 24578, 368}
953:16	$0, 0, 0, 0, \frac{3}{367}\sqrt{253}e^{12}, \frac{7}{367}\sqrt{506}e^{13}, \frac{1}{367}\sqrt{62238}e^{15},$ $\frac{1}{367}\sqrt{25806}e^{25} + \frac{1}{367}\sqrt{46805}e^{34}, \frac{1}{367}\sqrt{46299}e^{36}$	$(-\frac{114}{367}, \frac{109}{367}, \frac{134}{367}, -\frac{30}{367}, -\frac{5}{367}, \frac{20}{367}, -\frac{119}{367}, \frac{104}{367}, \frac{154}{367})$ $+ \frac{1}{367}\sqrt{154077}e^3 \otimes e_7$	{12679, 13459, 24578, 368}
953:16	$0, 0, 0, 0, \frac{1}{99}\sqrt{138}e^{12}, \frac{1}{99}\sqrt{46}e^{13}, \frac{5}{99}\sqrt{46}e^{15},$ $\frac{1}{99}\sqrt{690}e^{25} + \frac{2}{99}\sqrt{345}e^{34}, \frac{23}{99}\sqrt{2}e^{36}$	$(-\frac{19}{99}, \frac{2}{99}, \frac{7}{99}, \frac{2}{11}, \frac{1}{33}, -\frac{4}{33}, -\frac{16}{99}, \frac{25}{99}, -\frac{5}{99})$ $+ \frac{1}{99}\sqrt{2346}e^3 \otimes e_7 + \frac{2}{99}\sqrt{437}e^4 \otimes e_9$	{12679, 24578}
953:16	$0, 0, 0, 0, \frac{44}{289}\sqrt{13}e^{12}, \frac{5}{289}\sqrt{286}e^{13}, \frac{13}{289}\sqrt{66}e^{15},$ $\frac{4}{289}\sqrt{2431}e^{25} + \frac{4}{289}\sqrt{1430}e^{34}, \frac{1}{289}\sqrt{35178}e^{36}$	$(-\frac{30}{289}, \frac{65}{289}, -\frac{24}{289}, \frac{124}{289}, \frac{35}{289}, -\frac{54}{289}, \frac{5}{289}, \frac{100}{289}, -\frac{78}{289})$ $+ \frac{7}{289}\sqrt{1430}e^2 \otimes e_9$	{1345789, 156789, 2356, 245}
953:16	$0, 0, 0, 0, \frac{14}{757}\sqrt{30}e^{12}, \frac{7}{2271}\sqrt{4566}e^{13}, \frac{7}{2271}\sqrt{2886}e^{15},$ $\frac{7}{2271}\sqrt{5214}e^{25} + \frac{35}{757}\sqrt{22}e^{34}, \frac{28}{757}\sqrt{43}e^{36}$	$(-\frac{91}{757}, \frac{84}{757}, \frac{63}{757}, \frac{14}{757}, -\frac{7}{757}, -\frac{28}{757}, -\frac{98}{757}, \frac{77}{757}, \frac{35}{757})$ $+ \frac{14}{2271}\sqrt{1455}e^3 \otimes e_4 + \frac{14}{2271}\sqrt{1671}e^2 \otimes e_9$	{2356, 245}
953:16	$0, 0, 0, 0, \frac{4}{1349}\sqrt{23582}e^{12}, \frac{2}{1349}\sqrt{364614}e^{13}, \frac{1}{1349}\sqrt{585922}e^{15},$ $\frac{1}{1349}\sqrt{625830}e^{25} + \frac{2}{1349}\sqrt{241262}e^{34}, \frac{1}{1349}\sqrt{1137378}e^{36}$	$(-\frac{93}{1349}, \frac{43}{1349}, \frac{450}{1349}, -\frac{457}{1349}, -\frac{50}{1349}, \frac{357}{1349}, -\frac{143}{1349}, -\frac{7}{1349}, \frac{807}{1349})$ $+ \frac{1}{1349}\sqrt{2120566}e^3 \otimes e_4$	{123579, 1245679, 139, 1469}
953:16	$0, 0, 0, 0, \frac{9}{293}\sqrt{103}e^{12}, \frac{9}{293}\sqrt{62}e^{13}, \frac{9}{293}\sqrt{34}e^{15},$ $\frac{18}{293}\sqrt{31}e^{25} + \frac{9}{293}\sqrt{35}e^{34}, \frac{27}{293}\sqrt{23}e^{36}$	$(-\frac{63}{293}, \frac{72}{293}, \frac{27}{293}, \frac{54}{293}, \frac{9}{293}, -\frac{36}{293}, -\frac{54}{293}, \frac{81}{293}, -\frac{9}{293})$ $+ \frac{9}{293}\sqrt{215}e^3 \otimes e_7 + \frac{9}{293}\sqrt{298}e^2 \otimes e_9$	{134589, 2457}
953:16	$0, 0, 0, 0, \frac{10}{1431}\sqrt{4623}e^{12}, \frac{2}{1431}\sqrt{144854}e^{13}, \frac{14}{1431}\sqrt{3082}e^{15},$ $\frac{46}{1431}\sqrt{201}e^{25} + \frac{8}{1431}\sqrt{23115}e^{34}, \frac{1}{1431}\sqrt{976994}e^{36}$	$(\frac{104}{1431}, \frac{250}{1431}, -\frac{347}{1431}, \frac{317}{477}, \frac{118}{477}, -\frac{9}{53}, \frac{458}{1431}, \frac{604}{1431}, -\frac{590}{1431})$ $+ \frac{1}{1431}\sqrt{3602858}e^4 \otimes e_9$	{123467, 13456, 235789, 389}
953:17	$0, 0, 0, 0, \frac{6}{169}\sqrt{29}e^{12}, \frac{6}{169}\sqrt{7}e^{13}, \frac{6}{169}\sqrt{59}e^{25},$ $\frac{12}{169}\sqrt{2}e^{15} + \frac{12}{169}\sqrt{13}e^{34}, \frac{6}{169}\sqrt{14}e^{36}$	$(-\frac{9}{169}, \frac{6}{169}, \frac{21}{169}, -\frac{33}{169}, -\frac{3}{169}, \frac{12}{169}, \frac{3}{169}, -\frac{12}{169}, \frac{33}{169})$ $- \frac{30}{169}\sqrt{3}e^2 \otimes e_8 + \frac{30}{169}\sqrt{3}e^3 \otimes e_7$	{12679, 1456789, 23456, 368}
953:17	$0, 0, 0, 0, \frac{6}{169}\sqrt{29}e^{12}, \frac{6}{169}\sqrt{7}e^{13}, \frac{6}{169}\sqrt{59}e^{25},$ $\frac{12}{169}\sqrt{2}e^{15} + \frac{12}{169}\sqrt{13}e^{34}, \frac{6}{169}\sqrt{14}e^{36}$	$(-\frac{9}{169}, \frac{6}{169}, \frac{21}{169}, -\frac{33}{169}, -\frac{3}{169}, \frac{12}{169}, \frac{3}{169}, -\frac{12}{169}, \frac{33}{169})$ $+ \frac{30}{169}\sqrt{3}e^2 \otimes e_8 + \frac{30}{169}\sqrt{3}e^3 \otimes e_7$	{12679, 1456789, 23456, 368}
953:17	$0, 0, 0, 0, \frac{9}{1241}\sqrt{230}e^{12}, \frac{36}{1241}\sqrt{74}e^{13}, \frac{18}{1241}\sqrt{379}e^{25},$ $\frac{18}{1241}\sqrt{286}e^{15} + \frac{9}{1241}\sqrt{1226}e^{34}, \frac{9}{1241}\sqrt{1246}e^{36}$	$(\frac{171}{1241}, -\frac{198}{1241}, -\frac{63}{1241}, \frac{207}{1241}, -\frac{27}{1241}, \frac{108}{1241}, -\frac{225}{1241}, \frac{144}{1241}, \frac{45}{1241})$ $+ \frac{18}{1241}\sqrt{390}e^4 \otimes e_9 + \frac{9}{1241}\sqrt{2910}e^3 \otimes e_7$	{123589, 2478}
953:17	$0, 0, 0, 0, \frac{1}{117}\sqrt{258}e^{12}, \frac{1}{117}\sqrt{1290}e^{13}, \frac{1}{39}\sqrt{258}e^{25},$ $\frac{1}{117}\sqrt{1290}e^{15} + \frac{1}{39}\sqrt{946}e^{34}, \frac{2}{117}\sqrt{1806}e^{36}$	$(\frac{23}{117}, \frac{4}{117}, -\frac{34}{117}, \frac{28}{39}, \frac{3}{13}, -\frac{11}{117}, \frac{31}{117}, \frac{50}{117}, -\frac{5}{13})$ $+ \frac{1}{117}\sqrt{24510}e^4 \otimes e_9$	{123467, 14578, 2569, 389}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:17	$0, 0, 0, 0, \frac{3}{22}\sqrt{14}e^{12}, \frac{3}{22}\sqrt{17}e^{13}, \frac{3}{22}\sqrt{19}e^{25},$ $\frac{3}{22}\sqrt{13}e^{15} + \frac{3}{44}\sqrt{38}e^{34}, \frac{3}{44}\sqrt{46}e^{36}$	$(\frac{3}{22}, -\frac{9}{44}, \frac{3}{22}, -\frac{3}{44}, -\frac{3}{44}, \frac{3}{11}, -\frac{3}{11}, \frac{3}{44}, \frac{9}{22})$ $+ \frac{15}{44}\sqrt{6}e^3 \otimes e_7$	{123589, 1349, 2478, 57}
953:17	$0, 0, 0, 0, \frac{6}{337}\sqrt{527}e^{12}, \frac{6}{337}\sqrt{2387}e^{13}, \frac{3}{337}\sqrt{1426}e^{25},$ $\frac{3}{337}\sqrt{1054}e^{15} + \frac{6}{337}\sqrt{1147}e^{34}, \frac{3}{337}\sqrt{8494}e^{36}$	$(-\frac{51}{337}, \frac{63}{337}, \frac{120}{337}, -\frac{159}{337}, \frac{12}{337}, \frac{69}{337}, \frac{75}{337}, -\frac{39}{337}, \frac{189}{337})$ $+ \frac{3}{337}\sqrt{17670}e^3 \otimes e_4$	{139, 1469, 3567, 457}
953:17	$0, 0, 0, 0, \frac{3}{337}\sqrt{1426}e^{12}, \frac{3}{337}\sqrt{1054}e^{13}, \frac{3}{337}\sqrt{8494}e^{25},$ $\frac{6}{337}\sqrt{1147}e^{15} + \frac{6}{337}\sqrt{2387}e^{34}, \frac{6}{337}\sqrt{527}e^{36}$	$(\frac{120}{337}, -\frac{108}{337}, -\frac{51}{337}, \frac{183}{337}, \frac{12}{337}, \frac{69}{337}, -\frac{96}{337}, \frac{132}{337}, \frac{18}{337})$ $+ \frac{3}{337}\sqrt{17670}e^4 \otimes e_7$	{1279, 1356789, 2345, 468}
953:17	$0, 0, 0, 0, \frac{12}{37}e^{12}, \frac{6}{37}e^{13}, \frac{6}{37}\sqrt{7}e^{25}, \frac{3}{37}\sqrt{10}e^{15} + \frac{3}{37}\sqrt{14}e^{34},$ $\frac{3}{37}\sqrt{10}e^{36}$	$(\frac{3}{37}, 0, -\frac{6}{37}, \frac{12}{37}, \frac{3}{37}, -\frac{3}{37}, \frac{3}{37}, \frac{6}{37}, -\frac{9}{37})$ $+ \frac{18}{37}e^2 \otimes e_9 + \frac{3}{37}\sqrt{30}e^4 \otimes e_7$	{127, 4689}
953:17	$0, 0, 0, 0, \frac{3}{37}\sqrt{10}e^{12}, \frac{3}{37}\sqrt{14}e^{13}, \frac{12}{37}e^{25}, \frac{6}{37}e^{15} + \frac{3}{37}\sqrt{10}e^{34},$ $\frac{6}{37}\sqrt{7}e^{36}$	$(-\frac{6}{37}, \frac{9}{37}, \frac{3}{37}, -\frac{6}{37}, \frac{3}{37}, -\frac{3}{37}, \frac{12}{37}, -\frac{3}{37}, 0)$ $+ \frac{18}{37}e^2 \otimes e_9 + \frac{3}{37}\sqrt{30}e^3 \otimes e_4$	{2356, 245}
953:17	$0, 0, 0, 0, \frac{6}{29}\sqrt{10}e^{12}, \frac{6}{29}e^{13}, \frac{6}{29}\sqrt{10}e^{25}, \frac{6}{29}e^{15} + \frac{6}{29}e^{34},$ $\frac{6}{29}\sqrt{10}e^{36}$	$(-\frac{3}{29}, \frac{9}{29}, -\frac{3}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{6}{29}, \frac{15}{29}, \frac{3}{29}, -\frac{9}{29})$ $+ \frac{12}{29}\sqrt{6}e^2 \otimes e_9$	{12367, 1247, 3489, 689}
953:19	$0, 0, 0, 0, -\frac{1}{285}\sqrt{9827}e^{12}, \frac{1}{285}\sqrt{9827}e^{13}, \frac{1}{95}\sqrt{634}e^{15}, \frac{1}{95}\sqrt{634}e^{16},$ $\frac{7}{285}\sqrt{951}e^{25} + \frac{7}{285}\sqrt{951}e^{36}$	$(\frac{8}{57}, -\frac{12}{95}, -\frac{12}{95}, 1, \frac{4}{285}, \frac{4}{285}, \frac{44}{285}, \frac{44}{285}, -\frac{32}{285})$ $+ \frac{4}{285}\sqrt{9193}e^4 \otimes e_9$	{1239, 12689, 156789, 23456, 2458, 478, 1239, 12689, 156789, 23456, 2458, 478}
953:19	$0, 0, 0, 0, \frac{1}{285}\sqrt{9827}e^{12}, \frac{1}{285}\sqrt{9827}e^{13}, \frac{1}{95}\sqrt{634}e^{15}, \frac{1}{95}\sqrt{634}e^{16},$ $\frac{7}{285}\sqrt{951}e^{25} + \frac{7}{285}\sqrt{951}e^{36}$	$(\frac{8}{57}, -\frac{12}{95}, -\frac{12}{95}, 1, \frac{4}{285}, \frac{4}{285}, \frac{44}{285}, \frac{44}{285}, -\frac{32}{285})$ $+ \frac{4}{285}\sqrt{9193}e^4 \otimes e_9$	{1239, 12689, 156789, 23456, 2458, 478, 1239, 12689, 156789, 23456, 2458, 478}
953:19	$0, 0, 0, 0, -\frac{1}{139}\sqrt{13231}e^{12}, \frac{1}{139}\sqrt{1965}e^{13}, \frac{1}{139}\sqrt{1310}e^{15}, \frac{1}{139}\sqrt{1310}e^{16},$ $\frac{1}{139}\sqrt{13231}e^{25} + \frac{1}{139}\sqrt{1965}e^{36}$	$(-\frac{10}{139}, \frac{38}{139}, \frac{38}{139}, -\frac{93}{139}, \frac{28}{139}, \frac{28}{139}, \frac{18}{139}, \frac{18}{139}, \frac{66}{139})$ $+ \frac{2}{139}\sqrt{7598}e^2 \otimes e_4$	{123689, 129, 13456789, 14579, 2358, 256, 3478, 467, 123689, 129, 13456789, 14579, 2358, 256, 3478, 467}
953:19	$0, 0, 0, 0, \frac{1}{139}\sqrt{13231}e^{12}, \frac{1}{139}\sqrt{1965}e^{13}, \frac{1}{139}\sqrt{1310}e^{15}, \frac{1}{139}\sqrt{1310}e^{16},$ $\frac{1}{139}\sqrt{13231}e^{25} + \frac{1}{139}\sqrt{1965}e^{36}$	$(-\frac{10}{139}, \frac{38}{139}, \frac{38}{139}, -\frac{93}{139}, \frac{28}{139}, \frac{28}{139}, \frac{18}{139}, \frac{18}{139}, \frac{66}{139})$ $+ \frac{2}{139}\sqrt{7598}e^2 \otimes e_4$	{123689, 129, 13456789, 14579, 2358, 256, 3478, 467, 123689, 129, 13456789, 14579, 2358, 256, 3478, 467}
953:19	$0, 0, 0, 0, -\frac{21}{293}\sqrt{65}e^{12}, \frac{21}{293}\sqrt{65}e^{13}, \frac{7}{293}\sqrt{590}e^{15}, \frac{7}{293}\sqrt{590}e^{16},$ $\frac{7}{293}\sqrt{15}e^{25} + \frac{7}{293}\sqrt{15}e^{36}$	$(\frac{58}{293}, -\frac{4}{293}, -\frac{4}{293}, -\frac{187}{293}, \frac{54}{293}, \frac{54}{293}, \frac{112}{293}, \frac{112}{293}, \frac{50}{293})$ $+ \frac{140}{293}\sqrt{6}e^1 \otimes e_4$	{12378, 1267, 156, 23456789, 24579, 49, 12378, 1267, 156, 23456789, 24579, 49}
953:19	$0, 0, 0, 0, \frac{21}{293}\sqrt{65}e^{12}, \frac{21}{293}\sqrt{65}e^{13}, \frac{7}{293}\sqrt{590}e^{15}, \frac{7}{293}\sqrt{590}e^{16},$ $\frac{7}{293}\sqrt{15}e^{25} + \frac{7}{293}\sqrt{15}e^{36}$	$(\frac{58}{293}, -\frac{4}{293}, -\frac{4}{293}, -\frac{187}{293}, \frac{54}{293}, \frac{54}{293}, \frac{112}{293}, \frac{112}{293}, \frac{50}{293})$ $+ \frac{140}{293}\sqrt{6}e^1 \otimes e_4$	{12378, 1267, 156, 23456789, 24579, 49, 12378, 1267, 156, 23456789, 24579, 49}
953:19	$0, 0, 0, 0, -\frac{1}{133}\sqrt{8493}e^{12}, \frac{1}{133}\sqrt{8195}e^{13}, \frac{5}{133}\sqrt{894}e^{15}, \frac{1}{133}\sqrt{11026}e^{16},$ $\frac{1}{133}\sqrt{8195}e^{25} + \frac{1}{133}\sqrt{8493}e^{36}$	$(-\frac{18}{133}, \frac{20}{133}, \frac{20}{133}, 1, \frac{2}{133}, \frac{2}{133}, -\frac{16}{133}, -\frac{16}{133}, \frac{22}{133})$ $+ \frac{4}{133}\sqrt{2086}e^4 \otimes e_7$	{123678, 127, 134568, 145, 235789, 25679, 3489, 469, 123678, 127, 134568, 145, 235789, 25679, 3489, 469}
953:19	$0, 0, 0, 0, \frac{1}{133}\sqrt{8493}e^{12}, \frac{1}{133}\sqrt{8195}e^{13}, \frac{5}{133}\sqrt{894}e^{15}, \frac{1}{133}\sqrt{11026}e^{16},$ $\frac{1}{133}\sqrt{8195}e^{25} + \frac{1}{133}\sqrt{8493}e^{36}$	$(-\frac{18}{133}, \frac{20}{133}, \frac{20}{133}, 1, \frac{2}{133}, \frac{2}{133}, -\frac{16}{133}, -\frac{16}{133}, \frac{22}{133})$ $+ \frac{4}{133}\sqrt{2086}e^4 \otimes e_7$	{123678, 127, 134568, 145, 235789, 25679, 3489, 469, 123678, 127, 134568, 145, 235789, 25679, 3489, 469}
953:21	$0, 0, 0, 0, \frac{1}{277}\sqrt{6018}e^{12}, \frac{2}{277}\sqrt{4602}e^{13}, \frac{1}{277}\sqrt{16402}e^{25}, \frac{1}{277}\sqrt{3894}e^{16},$ $\frac{2}{277}\sqrt{4130}e^{15} + \frac{16}{277}\sqrt{59}e^{36}$	$(\frac{38}{277}, -\frac{52}{277}, -\frac{7}{277}, \frac{36}{277}, -\frac{14}{277}, \frac{31}{277}, -\frac{66}{277}, \frac{69}{277}, \frac{24}{277})$ $+ \frac{1}{277}\sqrt{28438}e^3 \otimes e_7$	{1234589, 123589, 457, 57}
953:21	$0, 0, 0, 0, \frac{637}{4405}\sqrt{10}e^{12}, \frac{147}{4405}\sqrt{26}e^{13}, \frac{49}{4405}\sqrt{1894}e^{25},$ $\frac{49}{4405}\sqrt{1002}e^{16}, \frac{98}{4405}\sqrt{39}e^{15} + \frac{49}{4405}\sqrt{986}e^{36}$	$(-\frac{147}{881}, \frac{1127}{4405}, \frac{196}{4405}, \frac{2058}{4405}, \frac{392}{4405}, -\frac{539}{4405}, \frac{1519}{4405}, -\frac{1274}{4405}, -\frac{343}{4405})$ $+ \frac{49}{4405}\sqrt{4694}e^2 \otimes e_8 + \frac{98}{4405}\sqrt{743}e^4 \otimes e_9$	{14578, 2359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:21	$0, 0, 0, 0, \frac{4}{557}\sqrt{13621}e^{12}, \frac{2}{557}\sqrt{7710}e^{13}, \frac{2}{557}\sqrt{49858}e^{25}, \frac{14}{557}\sqrt{257}e^{16},$ $\frac{10}{557}\sqrt{257}e^{15} + \frac{2}{557}\sqrt{14649}e^{36}$	$(-\frac{11}{557}, \frac{151}{557}, \frac{70}{557}, -\frac{363}{557}, \frac{140}{557}, \frac{59}{557}, \frac{291}{557}, \frac{48}{557}, \frac{129}{557})$ $+ \frac{4}{557}\sqrt{29555}e^2 \otimes e_4$	{123678, 127, 3489, 469}
953:21	$0, 0, 0, 0, \frac{135}{3797}\sqrt{42}e^{12}, \frac{27}{3797}\sqrt{3538}e^{13}, \frac{54}{3797}\sqrt{797}e^{25},$ $\frac{54}{3797}\sqrt{127}e^{16}, \frac{27}{3797}\sqrt{2910}e^{15} + \frac{378}{3797}\sqrt{17}e^{36}$	$(\frac{405}{3797}, -\frac{621}{3797}, -\frac{108}{3797}, \frac{918}{3797}, -\frac{216}{3797}, \frac{297}{3797}, -\frac{837}{3797}, \frac{702}{3797}, \frac{189}{3797})$ $+ \frac{27}{3797}\sqrt{5758}e^3 \otimes e_7 + \frac{54}{3797}\sqrt{235}e^4 \otimes e_9$	{123589, 457}
953:21	$0, 0, 0, 0, \frac{8}{31}\sqrt{3}e^{12}, \frac{12}{31}\sqrt{5}e^{13}, \frac{4}{31}\sqrt{15}e^{25}, \frac{4}{31}\sqrt{6}e^{16},$ $\frac{4}{31}\sqrt{30}e^{15} + \frac{4}{31}\sqrt{39}e^{36}$	$(\frac{2}{31}, \frac{4}{31}, \frac{3}{31}, -\frac{21}{31}, \frac{6}{31}, \frac{5}{31}, \frac{10}{31}, \frac{7}{31}, \frac{8}{31})$ $+ \frac{4}{31}\sqrt{78}e^3 \otimes e_4$	{123589, 124569, 35678, 457}
953:21	$0, 0, 0, 0, \frac{8}{2679}\sqrt{4411}e^{12}, \frac{4}{2679}\sqrt{178445}e^{13}, \frac{4}{2679}\sqrt{125513}e^{25},$ $\frac{8}{2679}\sqrt{121503}e^{16}, \frac{4}{2679}\sqrt{188470}e^{15} + \frac{4}{2679}\sqrt{36491}e^{36}$	$(-\frac{322}{2679}, \frac{184}{893}, \frac{115}{2679}, 1, \frac{230}{2679}, -\frac{69}{893}, \frac{782}{2679}, -\frac{529}{2679}, -\frac{92}{2679})$ $+ \frac{4}{2679}\sqrt{886210}e^4 \otimes e_8$	{138, 146, 236789, 2479}
953:21	$0, 0, 0, 0, \frac{1}{39}\sqrt{6}e^{12}, \frac{1}{13}\sqrt{10}e^{13}, \frac{2}{13}\sqrt{3}e^{25}, \frac{2}{39}\sqrt{3}e^{16},$ $\frac{1}{13}\sqrt{10}e^{15} + \frac{2}{39}\sqrt{21}e^{36}$	$(\frac{1}{13}, -\frac{1}{13}, 0, -\frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{1}{13})$ $+ \frac{2}{39}\sqrt{15}e^2 \otimes e_4 + \frac{5}{39}\sqrt{6}e^3 \otimes e_7$	{123589, 457}
953:21	$0, 0, 0, 0, \frac{4}{2641}\sqrt{153330}e^{12}, \frac{8}{2641}\sqrt{29590}e^{13}, \frac{20}{2641}\sqrt{2690}e^{25},$ $\frac{2}{2641}\sqrt{805655}e^{16}, \frac{6}{2641}\sqrt{151985}e^{15} + \frac{2641}{2641}\sqrt{996645}e^{36}$	$(-\frac{105}{2641}, \frac{161}{2641}, \frac{28}{2641}, 1, \frac{56}{2641}, -\frac{77}{2641}, \frac{217}{2641}, -\frac{182}{2641}, -\frac{49}{2641})$ $+ \frac{8}{2641}\sqrt{186955}e^4 \otimes e_9$	{134568, 145, 235789, 25679}
953:21	$0, 0, 0, 0, \frac{45}{697}\sqrt{10}e^{12}, \frac{25}{697}\sqrt{138}e^{13}, \frac{100}{697}\sqrt{7}e^{25}, \frac{40}{697}\sqrt{15}e^{16},$ $\frac{5}{697}\sqrt{2570}e^{15} + \frac{20}{697}\sqrt{155}e^{36}$	$(\frac{95}{697}, -\frac{115}{697}, -\frac{10}{697}, -\frac{30}{697}, -\frac{20}{697}, \frac{5}{41}, -\frac{135}{697}, \frac{180}{697}, \frac{75}{697})$ $+ \frac{10}{697}\sqrt{285}e^1 \otimes e_4 + \frac{5}{697}\sqrt{4990}e^3 \otimes e_7$	{123589, 457}
953:21	$0, 0, 0, 0, \frac{1}{1417}\sqrt{587202}e^{12}, \frac{2}{1417}\sqrt{43989}e^{13}, \frac{2}{1417}\sqrt{293601}e^{25},$ $\frac{2}{1417}\sqrt{240405}e^{16}, \frac{1}{1417}\sqrt{624030}e^{15} + \frac{5}{1417}\sqrt{2046}e^{36}$	$(-\frac{298}{1417}, \frac{556}{1417}, \frac{129}{1417}, \frac{240}{1417}, \frac{258}{1417}, -\frac{13}{109}, \frac{814}{1417}, -\frac{467}{1417}, -\frac{40}{1417})$ $+ \frac{11}{1417}\sqrt{19902}e^2 \otimes e_8$	{1345789, 135789, 245, 25}
953:21	$0, 0, 0, 0, \frac{87}{5383}\sqrt{226}e^{12}, \frac{116}{5383}\sqrt{330}e^{13}, \frac{29}{5383}\sqrt{4602}e^{25},$ $\frac{87}{5383}\sqrt{222}e^{16}, \frac{116}{5383}\sqrt{305}e^{15} + \frac{116}{5383}\sqrt{246}e^{36}$	$(\frac{58}{769}, -\frac{696}{5383}, -\frac{145}{5383}, \frac{1508}{5383}, -\frac{290}{5383}, \frac{261}{5383}, -\frac{986}{5383}, \frac{667}{5383}, \frac{116}{5383})$ $+ \frac{116}{5383}\sqrt{115}e^4 \otimes e_8 + \frac{145}{5383}\sqrt{310}e^3 \otimes e_7$	{123589, 457}
953:21	$0, 0, 0, 0, \frac{4}{2809}\sqrt{158010}e^{12}, \frac{4}{2809}\sqrt{152285}e^{13}, \frac{20}{2809}\sqrt{687}e^{25},$ $\frac{6}{2809}\sqrt{79005}e^{16}, \frac{2}{2809}\sqrt{756845}e^{15} + \frac{2}{2809}\sqrt{305715}e^{36}$	$(\frac{443}{2809}, -\frac{11}{2809}, \frac{216}{2809}, -\frac{1847}{2809}, \frac{432}{2809}, \frac{659}{2809}, \frac{421}{2809}, \frac{1102}{2809}, \frac{875}{2809})$ $+ \frac{4}{2809}\sqrt{666390}e^1 \otimes e_4$	{1358, 156, 23456789, 24579}
953:21	$0, 0, 0, 0, \frac{53}{8877}\sqrt{1982}e^{12}, \frac{53}{8877}\sqrt{134}e^{13}, \frac{53}{8877}\sqrt{7158}e^{25},$ $\frac{371}{8877}\sqrt{86}e^{16}, \frac{106}{8877}\sqrt{930}e^{15} + \frac{53}{8877}\sqrt{462}e^{36}$	$(-\frac{901}{8877}, \frac{2959}{8877}, \frac{106}{8877}, \frac{1378}{8877}, \frac{212}{8877}, -\frac{265}{2959}, \frac{1325}{8877}, -\frac{1696}{8877}, -\frac{689}{8877})$ $+ \frac{106}{8877}\sqrt{1597}e^4 \otimes e_7 + \frac{53}{2959}\sqrt{1054}e^2 \otimes e_8$	{135789, 245}
953:21	$0, 0, 0, 0, \frac{5}{197}\sqrt{42}e^{12}, \frac{10}{197}\sqrt{78}e^{13}, \frac{20}{197}\sqrt{21}e^{25}, \frac{20}{197}\sqrt{15}e^{16},$ $\frac{5}{197}\sqrt{330}e^{15} + \frac{5}{197}\sqrt{246}e^{36}$	$(-\frac{20}{197}, \frac{50}{197}, \frac{15}{197}, -\frac{60}{197}, \frac{30}{197}, -\frac{5}{197}, \frac{80}{197}, -\frac{25}{197}, \frac{10}{197})$ $+ \frac{30}{197}\sqrt{14}e^3 \otimes e_4 + \frac{5}{197}\sqrt{534}e^2 \otimes e_8$	{135789, 245}
953:21	$0, 0, 0, 0, \frac{4}{2793}\sqrt{8545}e^{12}, \frac{2}{931}\sqrt{64942}e^{13}, \frac{2}{2793}\sqrt{1855974}e^{25},$ $\frac{2}{2793}\sqrt{442631}e^{16}, \frac{2}{2793}\sqrt{794685}e^{15} + \frac{2}{2793}\sqrt{425541}e^{36}$	$(\frac{425}{2793}, -\frac{25}{133}, -\frac{50}{2793}, 1, -\frac{100}{2793}, \frac{125}{931}, -\frac{625}{2793}, \frac{800}{2793}, \frac{325}{2793})$ $+ \frac{4}{2793}\sqrt{962167}e^4 \otimes e_7$	{1234589, 124569, 35678, 57}
953:21	$0, 0, 0, 0, \frac{6}{181}\sqrt{3}e^{12}, \frac{2}{181}\sqrt{33}e^{13}, \frac{2}{181}\sqrt{67}e^{25}, \frac{2}{181}\sqrt{21}e^{16},$ $\frac{4}{181}\sqrt{5}e^{15} + \frac{2}{181}\sqrt{74}e^{36}$	$(-\frac{1}{181}, -\frac{1}{181}, -\frac{1}{181}, \frac{18}{181}, -\frac{2}{181}, -\frac{2}{181}, -\frac{3}{181}, -\frac{3}{181}, -\frac{3}{181})$ $+ \frac{10}{181}\sqrt{3}e^2 \otimes e_9 + \frac{4}{181}\sqrt{22}e^3 \otimes e_7$	{1456789, 156789, 23456, 2356}
953:21	$0, 0, 0, 0, \frac{6}{181}\sqrt{3}e^{12}, \frac{2}{181}\sqrt{33}e^{13}, \frac{2}{181}\sqrt{67}e^{25}, \frac{2}{181}\sqrt{21}e^{16},$ $\frac{4}{181}\sqrt{5}e^{15} + \frac{2}{181}\sqrt{74}e^{36}$	$(-\frac{1}{181}, -\frac{1}{181}, -\frac{1}{181}, \frac{18}{181}, -\frac{2}{181}, -\frac{2}{181}, -\frac{3}{181}, -\frac{3}{181}, -\frac{3}{181})$ $- \frac{10}{181}\sqrt{3}e^2 \otimes e_9 + \frac{4}{181}\sqrt{22}e^3 \otimes e_7$	{1456789, 156789, 23456, 2356}
953:21	$0, 0, 0, 0, \frac{43}{7325}\sqrt{2954}e^{12}, \frac{43}{7325}\sqrt{1614}e^{13}, \frac{43}{7325}\sqrt{2786}e^{25},$ $\frac{43}{7325}\sqrt{4174}e^{16}, \frac{172}{7325}\sqrt{3}e^{15} + \frac{43}{7325}\sqrt{874}e^{36}$	$(-\frac{473}{7325}, \frac{1333}{7325}, \frac{86}{1465}, -\frac{2322}{7325}, \frac{172}{1465}, -\frac{43}{7325}, \frac{2193}{7325}, -\frac{516}{7325}, \frac{387}{7325})$ $+ \frac{43}{7325}\sqrt{6806}e^2 \otimes e_8 + \frac{86}{7325}\sqrt{1561}e^1 \otimes e_4$	{13578, 2459}
953:24	$0, 0, 0, 0, \frac{18}{703}\sqrt{795}e^{12}, \frac{18}{703}\sqrt{606}e^{13}, \frac{54}{703}\sqrt{86}e^{15},$ $\frac{72}{703}\sqrt{33}e^{14} + \frac{72}{703}\sqrt{15}e^{25}, \frac{18}{703}\sqrt{105}e^{16} + \frac{18}{703}\sqrt{303}e^{24}$	$(\frac{9}{37}, \frac{9}{703}, -\frac{315}{703}, \frac{18}{703}, \frac{180}{703}, -\frac{144}{703}, \frac{351}{703}, \frac{189}{703}, \frac{27}{703})$ $+ \frac{18}{703}\sqrt{1830}e^1 \otimes e_3$	{12479, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:24	$0, 0, 0, 0, \frac{2}{17}\sqrt{17}e^{12}, \frac{4}{17}\sqrt{10}e^{13}, \frac{12}{17}e^{15},$ $\frac{6}{17}\sqrt{2}e^{14} + \frac{4}{17}\sqrt{10}e^{25}, \frac{2}{17}\sqrt{21}e^{16} + \frac{2}{17}\sqrt{17}e^{24}$	$(-\frac{3}{17}, \frac{1}{17}, \frac{9}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{6}{17}, -\frac{5}{17}, -\frac{1}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{74}e^3 \otimes e_8$	{1234579, 458}
953:24	$0, 0, 0, 0, \frac{68}{549}\sqrt{3}e^{12}, \frac{34}{549}\sqrt{158}e^{13}, \frac{34}{549}\sqrt{174}e^{15},$ $\frac{34}{549}\sqrt{87}e^{14} + \frac{68}{549}\sqrt{6}e^{25}, \frac{68}{549}\sqrt{5}e^{16} + \frac{34}{549}\sqrt{79}e^{24}$	$(-\frac{119}{549}, \frac{17}{183}, \frac{391}{549}, \frac{34}{183}, -\frac{68}{549}, \frac{272}{549}, -\frac{187}{549}, -\frac{17}{549}, \frac{17}{61})$ $- \frac{34}{549}\sqrt{455}e^3 \otimes e_7$	{123458, 146789, 2346, 4579}
953:24	$0, 0, 0, 0, \frac{68}{549}\sqrt{3}e^{12}, \frac{34}{549}\sqrt{158}e^{13}, \frac{34}{549}\sqrt{174}e^{15},$ $\frac{34}{549}\sqrt{87}e^{14} + \frac{68}{549}\sqrt{6}e^{25}, \frac{68}{549}\sqrt{5}e^{16} + \frac{34}{549}\sqrt{79}e^{24}$	$(-\frac{119}{549}, \frac{17}{183}, \frac{391}{549}, \frac{34}{183}, -\frac{68}{549}, \frac{272}{549}, -\frac{187}{549}, -\frac{17}{549}, \frac{17}{61})$ $+ \frac{34}{549}\sqrt{455}e^3 \otimes e_7$	{123458, 146789, 2346, 4579}
953:24	$0, 0, 0, 0, \frac{17}{947}\sqrt{33}e^{12}, \frac{170}{947}\sqrt{6}e^{13}, \frac{102}{947}\sqrt{34}e^{15},$ $\frac{17}{947}\sqrt{723}e^{14} + \frac{34}{947}\sqrt{239}e^{25}, \frac{51}{947}\sqrt{105}e^{16} + \frac{51}{947}\sqrt{115}e^{24}$	$(-\frac{255}{1894}, \frac{34}{947}, \frac{357}{947}, \frac{68}{947}, -\frac{187}{1894}, \frac{459}{1894}, -\frac{221}{947}, -\frac{119}{1894}, \frac{102}{947})$ $+ \frac{34}{947}\sqrt{445}e^4 \otimes e_7$	{178, 567}
953:25	$0, 0, 0, 0, -\frac{12}{37}\sqrt{3}e^{12}, \frac{2}{37}\sqrt{6}e^{13}, \frac{8}{37}\sqrt{15}e^{15},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{4}{37}\sqrt{33}e^{16} + \frac{6}{37}\sqrt{26}e^{34}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{127, 13569, 25678, 389, 127, 13569, 25678, 389}
953:25	$0, 0, 0, 0, \frac{12}{37}\sqrt{3}e^{12}, \frac{2}{37}\sqrt{6}e^{13}, \frac{8}{37}\sqrt{15}e^{15},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{4}{37}\sqrt{33}e^{16} + \frac{6}{37}\sqrt{26}e^{34}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{127, 13569, 25678, 389, 127, 13569, 25678, 389}
953:25	$0, 0, 0, 0, -\frac{3}{19}\sqrt{6}e^{12}, \frac{1}{19}\sqrt{15}e^{13}, \frac{1}{19}\sqrt{3}e^{15},$ $\frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}, \frac{3}{19}\sqrt{2}e^{16} + \frac{3}{19}\sqrt{6}e^{34}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_9$	{1234678, 14589, 23457, 469, 1234678, 14589, 23457, 469}
953:25	$0, 0, 0, 0, \frac{3}{19}\sqrt{6}e^{12}, \frac{1}{19}\sqrt{15}e^{13}, \frac{1}{19}\sqrt{3}e^{15},$ $\frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}, \frac{3}{19}\sqrt{2}e^{16} + \frac{3}{19}\sqrt{6}e^{34}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_9$	{1234678, 14589, 23457, 469, 1234678, 14589, 23457, 469}
953:26	$0, 0, 0, 0, \frac{62}{2881}\sqrt{435}e^{12}, \frac{124}{2881}\sqrt{93}e^{13}, \frac{62}{2881}\sqrt{1155}e^{15},$ $\frac{124}{2881}\sqrt{183}e^{14} + \frac{248}{2881}\sqrt{59}e^{25}, \frac{62}{2881}\sqrt{1281}e^{24} + \frac{186}{2881}\sqrt{35}e^{36}$	$(-\frac{744}{2881}, \frac{434}{2881}, \frac{1023}{2881}, \frac{868}{2881}, -\frac{310}{2881}, \frac{279}{2881}, -\frac{1054}{2881}, \frac{124}{2881}, \frac{1302}{2881})$ $+ \frac{62}{2881}\sqrt{2545}e^4 \otimes e_7$	{357, 567}
953:26	$0, 0, 0, 0, \frac{14}{129}\sqrt{2}e^{12}, \frac{28}{129}\sqrt{2}e^{13}, \frac{28}{129}\sqrt{2}e^{15},$ $\frac{14}{129}\sqrt{17}e^{14} + \frac{14}{129}\sqrt{2}e^{25}, \frac{14}{129}\sqrt{3}e^{24} + \frac{28}{129}\sqrt{11}e^{36}$	$(-\frac{35}{129}, \frac{7}{43}, \frac{49}{129}, \frac{14}{43}, -\frac{14}{129}, \frac{14}{129}, -\frac{49}{129}, \frac{7}{129}, \frac{21}{43})$ $+ \frac{14}{129}\sqrt{107}e^3 \otimes e_7$	{1246789, 346}
953:26	$0, 0, 0, 0, \frac{34}{3049}\sqrt{227}e^{12}, \frac{34}{3049}\sqrt{1123}e^{13}, \frac{34}{3049}\sqrt{1041}e^{15},$ $\frac{68}{3049}\sqrt{237}e^{14} + \frac{68}{3049}\sqrt{349}e^{25}, \frac{34}{3049}\sqrt{1046}e^{24} + \frac{34}{3049}\sqrt{1365}e^{36}$	$(-\frac{459}{3049}, \frac{221}{3049}, \frac{561}{3049}, \frac{442}{3049}, -\frac{238}{3049}, \frac{102}{3049}, -\frac{697}{3049}, -\frac{17}{3049}, \frac{663}{3049})$ $+ \frac{34}{3049}\sqrt{2705}e^3 \otimes e_8$	{1234579, 458}
953:27	$0, 0, 0, 0, -\frac{7}{97}\sqrt{47}e^{12}, \frac{7}{97}\sqrt{7}e^{13}, \frac{7}{97}\sqrt{66}e^{25},$ $\frac{7}{97}\sqrt{29}e^{15} + \frac{35}{97}e^{24}, \frac{7}{97}\sqrt{35}e^{14} + \frac{7}{97}\sqrt{53}e^{36}$	$(-\frac{7}{97}, \frac{28}{97}, -\frac{7}{97}, -\frac{14}{97}, \frac{21}{97}, -\frac{14}{97}, \frac{49}{97}, \frac{14}{97}, -\frac{21}{97})$ $+ \frac{63}{97}\sqrt{2}e^2 \otimes e_9$	{123467, 1247, 3489, 4689, 123467, 1247, 3489, 4689}
953:27	$0, 0, 0, 0, \frac{7}{97}\sqrt{47}e^{12}, \frac{7}{97}\sqrt{7}e^{13}, \frac{7}{97}\sqrt{66}e^{25},$ $\frac{7}{97}\sqrt{29}e^{15} + \frac{35}{97}e^{24}, \frac{7}{97}\sqrt{35}e^{14} + \frac{7}{97}\sqrt{53}e^{36}$	$(-\frac{7}{97}, \frac{28}{97}, -\frac{7}{97}, -\frac{14}{97}, \frac{21}{97}, -\frac{14}{97}, \frac{49}{97}, \frac{14}{97}, -\frac{21}{97})$ $+ \frac{63}{97}\sqrt{2}e^2 \otimes e_9$	{123467, 1247, 3489, 4689, 123467, 1247, 3489, 4689}
953:27	$0, 0, 0, 0, -\frac{2}{179}\sqrt{95}e^{12}, \frac{6}{179}\sqrt{37}e^{13}, \frac{18}{179}\sqrt{2}e^{25},$ $\frac{2}{179}\sqrt{173}e^{15} + \frac{6}{179}\sqrt{43}e^{24}, \frac{38}{179}e^{14} + \frac{2}{179}\sqrt{359}e^{36}$	$(\frac{6}{179}, -\frac{14}{179}, \frac{6}{179}, \frac{12}{179}, -\frac{8}{179}, \frac{12}{179}, -\frac{22}{179}, -\frac{2}{179}, \frac{18}{179})$ $+ \frac{2}{179}\sqrt{642}e^3 \otimes e_8$	{1234579, 146789, 2346, 458, 1234579, 146789, 2346, 458}
953:27	$0, 0, 0, 0, \frac{2}{179}\sqrt{95}e^{12}, \frac{6}{179}\sqrt{37}e^{13}, \frac{18}{179}\sqrt{2}e^{25},$ $\frac{2}{179}\sqrt{173}e^{15} + \frac{6}{179}\sqrt{43}e^{24}, \frac{38}{179}e^{14} + \frac{2}{179}\sqrt{359}e^{36}$	$(\frac{6}{179}, -\frac{14}{179}, \frac{6}{179}, \frac{12}{179}, -\frac{8}{179}, \frac{12}{179}, -\frac{22}{179}, -\frac{2}{179}, \frac{18}{179})$ $+ \frac{2}{179}\sqrt{642}e^3 \otimes e_8$	{1234579, 146789, 2346, 458, 1234579, 146789, 2346, 458}
953:29	$0, 0, 0, 0, \frac{2}{1813}\sqrt{390}e^{12}, \frac{2}{1813}\sqrt{978}e^{13}, \frac{6}{1813}\sqrt{178}e^{15},$ $\frac{2}{1813}\sqrt{1115}e^{25} + \frac{6}{1813}\sqrt{115}e^{34}, \frac{60}{1813}e^{16} + \frac{6}{1813}\sqrt{89}e^{24}$	$(-\frac{3}{259}, \frac{17}{1813}, \frac{36}{1813}, -\frac{23}{1813}, -\frac{4}{1813}, \frac{15}{1813}, -\frac{25}{1813}, \frac{13}{1813}, -\frac{6}{1813})$ $+ \frac{4}{1813}\sqrt{430}e^4 \otimes e_7$	{134569, 235789}
953:29	$0, 0, 0, 0, \frac{58}{687}\sqrt{19}e^{12}, \frac{290}{2061}\sqrt{2}e^{13}, \frac{58}{687}\sqrt{102}e^{15},$ $\frac{232}{2061}\sqrt{30}e^{25} + \frac{58}{2061}\sqrt{822}e^{34}, \frac{58}{2061}\sqrt{263}e^{16} + \frac{290}{2061}e^{24}$	$(-\frac{551}{2061}, \frac{203}{687}, \frac{1189}{2061}, -\frac{58}{229}, \frac{58}{2061}, \frac{638}{2061}, -\frac{493}{2061}, \frac{667}{2061}, \frac{29}{687})$ $+ \frac{116}{2061}\sqrt{434}e^3 \otimes e_7$	{12679, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:30	$0, 0, 0, 0, -\frac{28}{485}\sqrt{3}e^{12}, \frac{28}{485}\sqrt{3}e^{13}, \frac{84}{485}\sqrt{23}e^{25},$ $\frac{84}{485}\sqrt{15}e^{15} + \frac{28}{485}\sqrt{206}e^{34}, \frac{168}{485}\sqrt{2}e^{16} + \frac{28}{485}e^{24}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, \frac{14}{485}, -\frac{112}{485}, \frac{154}{485}, \frac{154}{485})$ $+ \frac{28}{485}\sqrt{402}e^4 \otimes e_7$	{1267, 135789, 234569, 48, 1267, 135789, 234569, 48}
953:30	$0, 0, 0, 0, \frac{28}{485}\sqrt{3}e^{12}, \frac{28}{485}\sqrt{3}e^{13}, \frac{84}{485}\sqrt{23}e^{25},$ $\frac{84}{485}\sqrt{15}e^{15} + \frac{28}{485}\sqrt{206}e^{34}, \frac{168}{485}\sqrt{2}e^{16} + \frac{28}{485}e^{24}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, \frac{14}{485}, -\frac{112}{485}, \frac{154}{485}, \frac{154}{485})$ $+ \frac{28}{485}\sqrt{402}e^4 \otimes e_7$	{1267, 135789, 234569, 48, 1267, 135789, 234569, 48}
953:31	$0, 0, 0, 0, \frac{9}{293}\sqrt{103}e^{12}, \frac{9}{293}\sqrt{62}e^{13}, \frac{18}{293}\sqrt{83}e^{15},$ $\frac{9}{293}\sqrt{174}e^{25} + \frac{9}{293}\sqrt{263}e^{34}, \frac{9}{293}\sqrt{298}e^{14} + \frac{27}{293}\sqrt{23}e^{36}$	$(-\frac{63}{293}, \frac{72}{293}, \frac{27}{293}, \frac{54}{293}, \frac{9}{293}, \frac{36}{293}, \frac{54}{293}, \frac{81}{293}, -\frac{9}{293})$ $+ \frac{27}{293}\sqrt{57}e^3 \otimes e_7$	{13459, 24578}
953:31	$0, 0, 0, 0, \frac{9}{293}\sqrt{103}e^{12}, \frac{9}{293}\sqrt{62}e^{13}, \frac{9}{293}\sqrt{181}e^{15},$ $\frac{9}{293}\sqrt{339}e^{25} + \frac{45}{293}\sqrt{10}e^{34}, \frac{9}{293}\sqrt{215}e^{14} + \frac{27}{293}\sqrt{23}e^{36}$	$(-\frac{63}{293}, \frac{72}{293}, \frac{27}{293}, \frac{54}{293}, \frac{9}{293}, \frac{36}{293}, \frac{54}{293}, \frac{81}{293}, -\frac{9}{293})$ $+ \frac{27}{293}\sqrt{57}e^2 \otimes e_9$	{156789, 2356}
953:31	$0, 0, 0, 0, \frac{45}{4319}\sqrt{1342}e^{12}, \frac{45}{4319}\sqrt{3994}e^{13}, \frac{180}{4319}\sqrt{314}e^{15},$ $\frac{45}{4319}\sqrt{3270}e^{25} + \frac{180}{4319}\sqrt{353}e^{34}, \frac{45}{4319}\sqrt{830}e^{14} + \frac{540}{4319}\sqrt{13}e^{36}$	$(-\frac{1170}{4319}, \frac{1395}{4319}, \frac{540}{4319}, \frac{1080}{4319}, \frac{225}{4319}, -\frac{90}{4319}, -\frac{135}{4319}, \frac{1620}{4319}, -\frac{90}{4319})$ $+ \frac{1620}{4319}\sqrt{6}e^4 \otimes e_7$	{1279, 23578}
953:32	$0, 0, 0, 0, \frac{10}{771}\sqrt{57}e^{12}, \frac{10}{771}\sqrt{939}e^{13}, \frac{10}{771}\sqrt{166}e^{15},$ $\frac{10}{771}\sqrt{1230}e^{25} + \frac{20}{771}\sqrt{357}e^{34}, \frac{10}{771}\sqrt{930}e^{14} + \frac{20}{771}\sqrt{183}e^{36}$	$(-\frac{50}{257}, \frac{45}{257}, \frac{45}{257}, -\frac{5}{257}, -\frac{5}{257}, -\frac{5}{257}, -\frac{55}{257}, \frac{40}{257}, \frac{40}{257})$ $+ \frac{10}{257}\sqrt{239}e^4 \otimes e_7$	{1279, 134569}
953:33	$0, 0, 0, 0, \frac{3}{34}\sqrt{38}e^{12}, \frac{3}{34}\sqrt{2}e^{13}, \frac{15}{34}\sqrt{2}e^{25},$ $\frac{3}{34}\sqrt{14}e^{15} + \frac{3}{17}\sqrt{2}e^{34}, \frac{3}{34}\sqrt{30}e^{14} + \frac{3}{34}\sqrt{38}e^{36}$	$(-\frac{3}{17}, \frac{6}{17}, 0, 0, \frac{3}{17}, -\frac{3}{17}, \frac{9}{17}, 0, -\frac{3}{17})$ $+ \frac{3}{34}\sqrt{114}e^2 \otimes e_9$	{1247, 3489}
953:33	$0, 0, 0, 0, \frac{12}{829}\sqrt{94}e^{12}, \frac{24}{829}\sqrt{337}e^{13}, \frac{48}{829}\sqrt{86}e^{25},$ $\frac{24}{829}\sqrt{203}e^{15} + \frac{12}{829}\sqrt{778}e^{34}, \frac{120}{829}\sqrt{6}e^{14} + \frac{12}{829}\sqrt{1046}e^{36}$	$(\frac{156}{829}, -\frac{204}{829}, \frac{36}{829}, \frac{72}{829}, -\frac{48}{829}, \frac{192}{829}, -\frac{252}{829}, \frac{108}{829}, \frac{228}{829})$ $+ \frac{60}{829}\sqrt{114}e^3 \otimes e_7$	{1349, 2478}
953:33	$0, 0, 0, 0, \frac{102}{6053}\sqrt{259}e^{12}, \frac{102}{6053}\sqrt{329}e^{13}, \frac{102}{6053}\sqrt{1394}e^{25},$ $\frac{51}{6053}\sqrt{4622}e^{15} + \frac{51}{6053}\sqrt{5182}e^{34}, \frac{510}{6053}\sqrt{57}e^{14} + \frac{51}{6053}\sqrt{3202}e^{36}$	$(\frac{1275}{6053}, -\frac{1632}{6053}, \frac{306}{6053}, \frac{612}{6053}, -\frac{357}{6053}, \frac{1581}{6053}, -\frac{1989}{6053}, \frac{918}{6053}, \frac{1887}{6053})$ $+ \frac{969}{6053}\sqrt{30}e^4 \otimes e_7$	{2378, 567}
953:34	$0, 0, 0, 0, \frac{132}{2689}\sqrt{17}e^{12}, \frac{264}{2689}\sqrt{5}e^{13}, \frac{924}{2689}\sqrt{5}e^{25},$ $\frac{132}{2689}\sqrt{134}e^{15} + \frac{66}{2689}\sqrt{1117}e^{34}, \frac{66}{2689}\sqrt{285}e^{24} + \frac{66}{2689}\sqrt{331}e^{36}$	$(\frac{957}{2689}, -\frac{924}{2689}, -\frac{297}{2689}, \frac{1287}{2689}, \frac{33}{2689}, \frac{660}{2689}, -\frac{891}{2689}, \frac{990}{2689}, \frac{363}{2689})$ $+ \frac{132}{2689}\sqrt{570}e^4 \otimes e_7$	{1279, 2345}
953:35	$0, 0, 0, 0, \frac{60}{281}\sqrt{7}e^{12}, \frac{20}{281}\sqrt{39}e^{13}, \frac{25}{281}\sqrt{39}e^{15} - \frac{15}{281}\sqrt{129}e^{24},$ $\frac{5}{281}\sqrt{285}e^{14} + \frac{15}{281}\sqrt{11}e^{25}, \frac{10}{281}\sqrt{282}e^{16}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{30}{281}\sqrt{42}e^4 \otimes e_9$	{1235789, 1389, 23679, 3569, 1235789, 1389, 23679, 3569}
953:35	$0, 0, 0, 0, \frac{60}{281}\sqrt{7}e^{12}, \frac{20}{281}\sqrt{39}e^{13}, \frac{25}{281}\sqrt{39}e^{15} + \frac{15}{281}\sqrt{129}e^{24},$ $\frac{5}{281}\sqrt{285}e^{14} + \frac{15}{281}\sqrt{11}e^{25}, \frac{10}{281}\sqrt{282}e^{16}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{30}{281}\sqrt{42}e^4 \otimes e_9$	{1235789, 1389, 23679, 3569, 1235789, 1389, 23679, 3569}
953:35	$0, 0, 0, 0, \frac{6}{37}\sqrt{14}e^{12}, \frac{4}{37}\sqrt{57}e^{13}, \frac{2}{37}\sqrt{6}e^{15} - \frac{6}{37}\sqrt{26}e^{24},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{2}{37}\sqrt{102}e^{16}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{1234589, 14678, 23469, 457, 1234589, 14678, 23469, 457}
953:35	$0, 0, 0, 0, \frac{6}{37}\sqrt{14}e^{12}, \frac{4}{37}\sqrt{57}e^{13}, \frac{2}{37}\sqrt{6}e^{15} + \frac{6}{37}\sqrt{26}e^{24},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{2}{37}\sqrt{102}e^{16}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{1234589, 14678, 23469, 457, 1234589, 14678, 23469, 457}
953:35	$0, 0, 0, 0, \frac{12}{65}\sqrt{15}e^{12}, \frac{6}{65}\sqrt{51}e^{13}, \frac{9}{65}\sqrt{29}e^{15} - \frac{3}{65}\sqrt{183}e^{24},$ $\frac{3}{65}\sqrt{141}e^{14} + \frac{9}{65}\sqrt{7}e^{25}, \frac{6}{65}\sqrt{21}e^{16}$	$(\frac{6}{65}, \frac{6}{65}, -\frac{21}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{18}{65}, \frac{18}{65}, -\frac{9}{65})$ $+ \frac{18}{65}\sqrt{10}e^1 \otimes e_3$	{1247, 145, 2345789, 3489, 1247, 145, 2345789, 3489}
953:35	$0, 0, 0, 0, \frac{12}{65}\sqrt{15}e^{12}, \frac{6}{65}\sqrt{51}e^{13}, \frac{9}{65}\sqrt{29}e^{15} + \frac{3}{65}\sqrt{183}e^{24},$ $\frac{3}{65}\sqrt{141}e^{14} + \frac{9}{65}\sqrt{7}e^{25}, \frac{6}{65}\sqrt{21}e^{16}$	$(\frac{6}{65}, \frac{6}{65}, -\frac{21}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{18}{65}, \frac{18}{65}, -\frac{9}{65})$ $+ \frac{18}{65}\sqrt{10}e^1 \otimes e_3$	{1247, 145, 2345789, 3489, 1247, 145, 2345789, 3489}
953:36	$0, 0, 0, 0, \frac{28}{73}\sqrt{2}e^{12}, \frac{7}{219}\sqrt{42}e^{13}, \frac{7}{219}\sqrt{66}e^{15} - \frac{14}{73}\sqrt{5}e^{24},$ $\frac{7}{219}\sqrt{210}e^{14} + \frac{42}{73}e^{25}, \frac{14}{219}\sqrt{73}e^{36}$	$(\frac{7}{73}, \frac{7}{73}, -\frac{49}{219}, \frac{14}{73}, \frac{14}{73}, -\frac{28}{219}, \frac{21}{73}, \frac{21}{73}, -\frac{77}{219})$ $+ \frac{7}{73}\sqrt{82}e^2 \otimes e_9$	{1345789, 1456789, 23456, 245, 1345789, 1456789, 23456, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:36	$0, 0, 0, 0, \frac{28}{73}\sqrt{2}e^{12}, \frac{7}{219}\sqrt{42}e^{13}, \frac{7}{219}\sqrt{66}e^{15} + \frac{14}{73}\sqrt{5}e^{24},$ $\frac{7}{219}\sqrt{210}e^{14} + \frac{42}{73}e^{25}, \frac{14}{219}\sqrt{73}e^{36}$	$(\frac{7}{73}, \frac{7}{73}, -\frac{49}{219}, \frac{14}{73}, \frac{14}{73}, -\frac{28}{219}, \frac{21}{73}, \frac{21}{73}, -\frac{77}{219})$ $+ \frac{7}{73}\sqrt{82}e^2 \otimes e_9$	{1345789, 1456789, 23456, 245, 1345789, 1456789, 23456, 245}
953:36	$0, 0, 0, 0, \frac{26}{849}\sqrt{141}e^{12}, \frac{26}{849}\sqrt{345}e^{13}, \frac{13}{849}\sqrt{498}e^{15} - \frac{91}{849}\sqrt{30}e^{24},$ $\frac{13}{849}\sqrt{678}e^{14} + \frac{13}{283}\sqrt{30}e^{25}, \frac{26}{849}\sqrt{283}e^{36}$	$(-\frac{13}{283}, -\frac{13}{283}, \frac{221}{849}, -\frac{26}{283}, -\frac{26}{283}, \frac{182}{849}, -\frac{39}{283}, -\frac{39}{283}, \frac{403}{849})$ $+ \frac{234}{283}e^3 \otimes e_7$	{1234589, 146789, 2346, 457, 1234589, 146789, 2346, 457}
953:36	$0, 0, 0, 0, \frac{26}{849}\sqrt{141}e^{12}, \frac{26}{849}\sqrt{345}e^{13}, \frac{13}{849}\sqrt{498}e^{15} + \frac{91}{849}\sqrt{30}e^{24},$ $\frac{13}{849}\sqrt{678}e^{14} + \frac{13}{283}\sqrt{30}e^{25}, \frac{26}{849}\sqrt{283}e^{36}$	$(-\frac{13}{283}, -\frac{13}{283}, \frac{221}{849}, -\frac{26}{283}, -\frac{26}{283}, \frac{182}{849}, -\frac{39}{283}, -\frac{39}{283}, \frac{403}{849})$ $+ \frac{234}{283}e^3 \otimes e_7$	{1234589, 146789, 2346, 457, 1234589, 146789, 2346, 457}
953:36	$0, 0, 0, 0, \frac{32}{813}\sqrt{186}e^{12}, \frac{128}{813}\sqrt{3}e^{13}, \frac{16}{813}\sqrt{582}e^{15} - \frac{16}{813}\sqrt{1290}e^{24},$ $\frac{16}{813}\sqrt{1194}e^{14} + \frac{48}{271}\sqrt{6}e^{25}, \frac{32}{813}\sqrt{271}e^{36}$	$(\frac{32}{271}, \frac{32}{271}, -\frac{208}{813}, \frac{64}{271}, \frac{64}{271}, -\frac{112}{813}, \frac{96}{271}, \frac{96}{271}, -\frac{320}{813})$ $+ \frac{32}{271}\sqrt{78}e^4 \otimes e_9$	{1235789, 1256789, 1389, 1689, 1235789, 1256789, 1389, 1689}
953:36	$0, 0, 0, 0, \frac{32}{813}\sqrt{186}e^{12}, \frac{128}{813}\sqrt{3}e^{13}, \frac{16}{813}\sqrt{582}e^{15} + \frac{16}{813}\sqrt{1290}e^{24},$ $\frac{16}{813}\sqrt{1194}e^{14} + \frac{48}{271}\sqrt{6}e^{25}, \frac{32}{813}\sqrt{271}e^{36}$	$(\frac{32}{271}, \frac{32}{271}, -\frac{208}{813}, \frac{64}{271}, \frac{64}{271}, -\frac{112}{813}, \frac{96}{271}, \frac{96}{271}, -\frac{320}{813})$ $+ \frac{32}{271}\sqrt{78}e^4 \otimes e_9$	{1235789, 1256789, 1389, 1689, 1235789, 1256789, 1389, 1689}
953:37	$0, 0, 0, 0, \frac{92}{2429}\sqrt{119}e^{12}, \frac{46}{2429}\sqrt{1023}e^{13},$ $\frac{92}{2429}\sqrt{41}e^{14} + \frac{46}{2429}\sqrt{1126}e^{25}, \frac{46}{2429}\sqrt{1113}e^{15} + \frac{46}{2429}\sqrt{785}e^{34}, \frac{184}{2429}\sqrt{37}e^{16}$	$(\frac{23}{347}, -\frac{299}{2429}, \frac{621}{2429}, -\frac{598}{2429}, -\frac{138}{2429}, \frac{782}{2429}, -\frac{437}{2429}, \frac{23}{2429}, \frac{943}{2429})$ $+ \frac{46}{2429}\sqrt{2078}e^3 \otimes e_7$	{1349, 2478}
953:37	$0, 0, 0, 0, \frac{406}{1179}\sqrt{2}e^{12}, \frac{29}{1179}\sqrt{61}e^{13}, \frac{29}{1179}\sqrt{445}e^{14} + \frac{58}{1179}\sqrt{55}e^{25},$ $\frac{29}{1179}\sqrt{755}e^{15} + \frac{29}{1179}\sqrt{869}e^{34}, \frac{58}{1179}\sqrt{255}e^{16}$	$(-\frac{29}{2358}, \frac{29}{131}, -\frac{290}{1179}, \frac{58}{131}, \frac{493}{2358}, -\frac{203}{786}, \frac{1015}{2358}, \frac{232}{1179}, -\frac{319}{1179})$ $+ \frac{58}{1179}\sqrt{502}e^4 \otimes e_9$	{124568, 2478}
953:38	$0, 0, 0, 0, \frac{50}{2101}\sqrt{719}e^{12}, \frac{25}{2101}\sqrt{2278}e^{13},$ $\frac{25}{2101}\sqrt{2930}e^{15} + \frac{100}{2101}\sqrt{217}e^{24}, \frac{225}{2101}\sqrt{2}e^{25} + \frac{25}{2101}\sqrt{570}e^{34}, \frac{50}{2101}\sqrt{834}e^{16}$	$(\frac{325}{2101}, -\frac{150}{2101}, -\frac{625}{2101}, \frac{650}{2101}, \frac{175}{2101}, -\frac{300}{2101}, \frac{500}{2101}, \frac{25}{2101}, \frac{25}{2101})$ $+ \frac{300}{2101}\sqrt{26}e^4 \otimes e_9$	{123579, 139}
953:38	$0, 0, 0, 0, \frac{2}{133}\sqrt{31}e^{12}, \frac{3}{133}\sqrt{22}e^{13}, \frac{1}{133}\sqrt{258}e^{15} + \frac{4}{133}\sqrt{14}e^{24},$ $\frac{9}{133}\sqrt{2}e^{25} + \frac{1}{133}\sqrt{186}e^{34}, \frac{6}{133}\sqrt{6}e^{16}$	$(-\frac{3}{133}, \frac{2}{133}, \frac{1}{19}, \frac{6}{133}, \frac{1}{133}, \frac{4}{133}, -\frac{4}{133}, \frac{1}{133}, \frac{1}{133})$ $+ \frac{4}{133}\sqrt{15}e^2 \otimes e_9$	{139, 278}
953:38	$0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{4}{55}\sqrt{65}e^{13}, \frac{2}{55}\sqrt{230}e^{15} + \frac{2}{55}\sqrt{330}e^{24},$ $\frac{2}{55}\sqrt{210}e^{25} + \frac{8}{55}\sqrt{15}e^{34}, \frac{2}{55}\sqrt{30}e^{16}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{6}{11}, -\frac{4}{11}, 0, \frac{4}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11})$ $+ \frac{2}{55}\sqrt{930}e^3 \otimes e_7$	{14678, 23469}
953:39	$0, 0, 0, 0, \frac{15}{1289}\sqrt{470}e^{12}, \frac{15}{1289}\sqrt{1090}e^{13},$ $\frac{60}{1289}\sqrt{285}e^{14} + \frac{15}{1289}\sqrt{470}e^{25}, \frac{15}{1289}\sqrt{1090}e^{15} + \frac{15}{1289}\sqrt{2330}e^{34}, \frac{120}{1289}\sqrt{55}e^{36}$	$(\frac{15}{1289}, \frac{300}{1289}, -\frac{270}{1289}, \frac{600}{1289}, \frac{315}{1289}, -\frac{255}{1289}, \frac{615}{1289}, \frac{330}{1289}, -\frac{525}{1289})$ $+ \frac{285}{1289}\sqrt{30}e^4 \otimes e_9$	{2389, 569}
953:39	$0, 0, 0, 0, \frac{3}{17}\sqrt{14}e^{12}, \frac{3}{34}\sqrt{2}e^{13}, \frac{3}{34}\sqrt{30}e^{14} + \frac{3}{17}\sqrt{14}e^{25},$ $\frac{3}{34}\sqrt{2}e^{15} + \frac{3}{17}e^{34}, \frac{3}{17}\sqrt{11}e^{36}$	$(0, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17}, -\frac{6}{17})$ $+ \frac{3}{34}\sqrt{114}e^2 \otimes e_9$	{123467, 4689}
953:39	$0, 0, 0, 0, \frac{12}{829}\sqrt{454}e^{12}, \frac{24}{829}\sqrt{307}e^{13}, \frac{120}{829}\sqrt{6}e^{14} + \frac{24}{829}\sqrt{314}e^{25},$ $\frac{24}{829}\sqrt{263}e^{15} + \frac{12}{829}\sqrt{538}e^{34}, \frac{12}{829}\sqrt{926}e^{36}$	$(\frac{36}{829}, -\frac{84}{829}, \frac{156}{829}, -\frac{168}{829}, -\frac{48}{829}, \frac{192}{829}, -\frac{132}{829}, -\frac{12}{829}, \frac{348}{829})$ $+ \frac{60}{829}\sqrt{114}e^3 \otimes e_7$	{1349, 2478}
953:40	$0, 0, 0, 0, \frac{28}{247}\sqrt{2}e^{12}, \frac{14}{247}\sqrt{42}e^{13}, \frac{7}{247}\sqrt{194}e^{15} + \frac{7}{247}\sqrt{230}e^{24},$ $\frac{7}{247}\sqrt{246}e^{25} + \frac{14}{247}\sqrt{70}e^{34}, \frac{7}{247}\sqrt{258}e^{36}$	$(\frac{28}{247}, -\frac{7}{247}, -\frac{42}{247}, \frac{56}{247}, \frac{21}{247}, -\frac{14}{247}, \frac{49}{247}, \frac{14}{247}, -\frac{56}{247})$ $+ \frac{84}{247}\sqrt{3}e^2 \otimes e_9$	{1345789, 245}
953:40	$0, 0, 0, 0, \frac{236}{3949}\sqrt{46}e^{12}, \frac{59}{3949}\sqrt{546}e^{13},$ $\frac{59}{3949}\sqrt{506}e^{15} + \frac{118}{3949}\sqrt{743}e^{24}, \frac{59}{3949}\sqrt{690}e^{25} + \frac{59}{3949}\sqrt{914}e^{34}, \frac{118}{3949}\sqrt{582}e^{36}$	$(\frac{1003}{3949}, -\frac{118}{3949}, -\frac{1239}{3949}, \frac{2006}{3949}, \frac{885}{3949}, -\frac{236}{3949}, \frac{1888}{3949}, \frac{767}{3949}, -\frac{1475}{3949})$ $+ \frac{354}{3949}\sqrt{183}e^4 \otimes e_9$	{1235789, 1389}
953:40	$0, 0, 0, 0, \frac{3}{23}\sqrt{11}e^{12}, \frac{4}{23}\sqrt{11}e^{13}, \frac{1}{23}\sqrt{66}e^{15} + \frac{3}{23}\sqrt{22}e^{24},$ $\frac{1}{23}\sqrt{66}e^{25} + \frac{1}{23}\sqrt{11}e^{34}, \frac{1}{23}\sqrt{165}e^{36}$	$(-\frac{3}{23}, \frac{2}{23}, \frac{7}{23}, -\frac{6}{23}, -\frac{1}{23}, \frac{4}{23}, -\frac{4}{23}, \frac{1}{23}, \frac{11}{23})$ $+ \frac{1}{23}\sqrt{429}e^3 \otimes e_7$	{146789, 2346}
953:41	$0, 0, 0, 0, \frac{396}{2069}e^{12}, \frac{66}{2069}\sqrt{259}e^{13}, \frac{66}{2069}\sqrt{602}e^{25},$ $\frac{132}{2069}\sqrt{5}e^{15} + \frac{66}{2069}\sqrt{367}e^{23}, \frac{264}{2069}\sqrt{5}e^{16} + \frac{330}{2069}\sqrt{26}e^{24}$	$(\frac{231}{2069}, -\frac{495}{2069}, \frac{462}{2069}, \frac{1419}{2069}, -\frac{264}{2069}, \frac{693}{2069}, -\frac{759}{2069}, -\frac{33}{2069}, \frac{924}{2069})$ $+ \frac{462}{2069}\sqrt{35}e^4 \otimes e_7$	{123458, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:41	$0, 0, 0, 0, \frac{130}{499}\sqrt{7}e^{12}, \frac{26}{499}\sqrt{53}e^{13}, \frac{13}{499}\sqrt{826}e^{25},$ $\frac{26}{499}\sqrt{95}e^{15} + \frac{13}{499}\sqrt{582}e^{23}, \frac{13}{499}\sqrt{210}e^{16} + \frac{78}{499}\sqrt{19}e^{24}$	$(-\frac{13}{499}, \frac{143}{499}, -\frac{26}{499}, -\frac{195}{499}, \frac{130}{499}, -\frac{39}{499}, \frac{273}{499}, \frac{117}{499}, -\frac{52}{499})$ $+\frac{13}{499}\sqrt{1730}e^2 \otimes e_4$	{12367, 1345678, 235, 348}
953:41	$0, 0, 0, 0, \frac{130}{499}\sqrt{7}e^{12}, \frac{26}{499}\sqrt{53}e^{13}, \frac{13}{499}\sqrt{826}e^{25},$ $\frac{26}{499}\sqrt{95}e^{15} + \frac{13}{499}\sqrt{582}e^{23}, \frac{13}{499}\sqrt{210}e^{16} + \frac{78}{499}\sqrt{19}e^{24}$	$(-\frac{13}{499}, \frac{143}{499}, -\frac{26}{499}, -\frac{195}{499}, \frac{130}{499}, -\frac{39}{499}, \frac{273}{499}, \frac{117}{499}, -\frac{52}{499})$ $-\frac{13}{499}\sqrt{1730}e^2 \otimes e_4$	{12367, 1345678, 235, 348}
953:41	$0, 0, 0, 0, \frac{4}{199}\sqrt{590}e^{12}, \frac{4}{199}\sqrt{970}e^{13}, \frac{4}{199}\sqrt{970}e^{25},$ $\frac{4}{199}\sqrt{1110}e^{15} + \frac{8}{199}\sqrt{195}e^{23}, \frac{8}{199}\sqrt{210}e^{16} + \frac{4}{199}\sqrt{590}e^{24}$	$(\frac{12}{199}, -\frac{34}{199}, \frac{24}{199}, \frac{82}{199}, -\frac{22}{199}, \frac{36}{199}, \frac{56}{199}, -\frac{10}{199}, \frac{48}{199})$ $+\frac{16}{199}\sqrt{110}e^3 \otimes e_7$	{278, 457}
953:42	$0, 0, 0, 0, \frac{106}{3661}\sqrt{370}e^{12}, \frac{159}{3661}\sqrt{30}e^{13}, \frac{106}{3661}\sqrt{705}e^{25},$ $\frac{1166}{3661}\sqrt{5}e^{15} + \frac{53}{3661}\sqrt{1282}e^{23}, \frac{53}{3661}\sqrt{4354}e^{14} + \frac{53}{3661}\sqrt{1570}e^{36}$	$(\frac{53}{523}, -\frac{848}{3661}, \frac{106}{523}, \frac{212}{523}, -\frac{477}{3661}, \frac{159}{523}, -\frac{1325}{3661}, -\frac{106}{3661}, \frac{265}{523})$ $+\frac{106}{3661}\sqrt{1599}e^4 \otimes e_7$	{2678, 567}
953:42	$0, 0, 0, 0, \frac{516}{3997}\sqrt{3}e^{12}, \frac{387}{3997}\sqrt{46}e^{13}, \frac{516}{3997}\sqrt{22}e^{25},$ $\frac{172}{3997}\sqrt{93}e^{15} + \frac{43}{3997}\sqrt{22}e^{23}, \frac{129}{3997}\sqrt{138}e^{14} + \frac{43}{3997}\sqrt{3086}e^{36}$	$(\frac{43}{571}, -\frac{774}{3997}, \frac{86}{571}, \frac{172}{571}, -\frac{473}{3997}, \frac{129}{571}, -\frac{1247}{3997}, -\frac{172}{3997}, \frac{215}{571})$ $+\frac{86}{3997}\sqrt{1707}e^3 \otimes e_7$	{1234589, 1349}
953:42	$0, 0, 0, 0, \frac{29}{3199}\sqrt{2594}e^{12}, \frac{29}{3199}\sqrt{2634}e^{13}, \frac{29}{3199}\sqrt{1830}e^{25},$ $\frac{116}{3199}\sqrt{5}e^{15} + \frac{348}{3199}\sqrt{39}e^{23}, \frac{29}{3199}\sqrt{5006}e^{14} + \frac{116}{3199}\sqrt{217}e^{36}$	$(\frac{174}{3199}, -\frac{493}{3199}, \frac{348}{3199}, \frac{696}{3199}, -\frac{319}{3199}, \frac{522}{3199}, -\frac{116}{457}, -\frac{145}{3199}, \frac{870}{3199})$ $+\frac{348}{3199}\sqrt{43}e^4 \otimes e_8$	{136789, 358}
953:42	$0, 0, 0, 0, \frac{3}{23}\sqrt{11}e^{12}, \frac{1}{23}\sqrt{66}e^{13}, \frac{1}{23}\sqrt{165}e^{25},$ $\frac{3}{23}\sqrt{11}e^{15} + \frac{1}{23}\sqrt{110}e^{23}, \frac{1}{23}\sqrt{165}e^{14} + \frac{1}{23}\sqrt{77}e^{36}$	$(-\frac{1}{23}, \frac{6}{23}, -\frac{2}{23}, -\frac{4}{23}, \frac{5}{23}, -\frac{3}{23}, \frac{11}{23}, \frac{4}{23}, -\frac{5}{23})$ $+\frac{1}{23}\sqrt{429}e^2 \otimes e_9$	{123467, 3489}
953:42	$0, 0, 0, 0, \frac{60}{1271}\sqrt{37}e^{12}, \frac{5}{1271}\sqrt{2730}e^{13}, \frac{30}{1271}\sqrt{11}e^{25},$ $\frac{10}{1271}\sqrt{1299}e^{15} + \frac{5}{1271}\sqrt{5610}e^{23}, \frac{5}{1271}\sqrt{5478}e^{14} + \frac{5}{1271}\sqrt{3954}e^{36}$	$(-\frac{25}{1271}, \frac{110}{1271}, -\frac{50}{1271}, -\frac{100}{1271}, \frac{85}{1271}, -\frac{75}{1271}, \frac{195}{1271}, \frac{60}{1271}, -\frac{125}{1271})$ $+\frac{10}{1271}\sqrt{1713}e^1 \otimes e_4$	{234568, 346}
953:43	$0, 0, 0, 0, \frac{37}{2485}\sqrt{1786}e^{12}, \frac{37}{2485}\sqrt{2622}e^{13}, \frac{222}{2485}\sqrt{53}e^{25},$ $\frac{37}{2485}\sqrt{2422}e^{15} + \frac{74}{2485}\sqrt{417}e^{23}, \frac{74}{2485}\sqrt{437}e^{16} + \frac{74}{2485}\sqrt{89}e^{34}$	$(\frac{37}{355}, -\frac{111}{497}, \frac{74}{355}, \frac{74}{355}, -\frac{296}{2485}, \frac{111}{355}, -\frac{851}{2485}, -\frac{37}{2485}, \frac{148}{355})$ $+\frac{37}{2485}\sqrt{4290}e^3 \otimes e_7$	{2478, 457}
953:43	$0, 0, 0, 0, \frac{4}{71}\sqrt{43}e^{12}, \frac{12}{71}\sqrt{6}e^{13}, \frac{12}{71}\sqrt{2}e^{25},$ $\frac{4}{71}\sqrt{71}e^{15} + \frac{8}{71}\sqrt{3}e^{23}, \frac{4}{71}\sqrt{58}e^{16} + \frac{4}{71}\sqrt{65}e^{34}$	$(\frac{3}{71}, -\frac{8}{71}, \frac{6}{71}, \frac{6}{71}, -\frac{5}{71}, \frac{9}{71}, -\frac{13}{71}, -\frac{2}{71}, \frac{12}{71})$ $+\frac{4}{71}\sqrt{66}e^4 \otimes e_8$	{123689, 235789}
953:43	$0, 0, 0, 0, \frac{74}{2485}\sqrt{626}e^{12}, \frac{74}{2485}\sqrt{417}e^{13}, \frac{222}{2485}\sqrt{53}e^{25},$ $\frac{74}{2485}\sqrt{467}e^{15} + \frac{37}{2485}\sqrt{2622}e^{23}, \frac{37}{2485}\sqrt{2542}e^{16} + \frac{37}{2485}\sqrt{3934}e^{34}$	$(\frac{37}{355}, -\frac{111}{497}, \frac{74}{355}, \frac{74}{355}, -\frac{296}{2485}, \frac{111}{355}, -\frac{851}{2485}, -\frac{37}{2485}, \frac{148}{355})$ $+\frac{37}{2485}\sqrt{4290}e^4 \otimes e_7$	{1236789, 135679}
953:43	$0, 0, 0, 0, \frac{3}{110}\sqrt{354}e^{12}, \frac{3}{55}\sqrt{42}e^{13}, \frac{3}{110}\sqrt{438}e^{25},$ $\frac{27}{110}\sqrt{2}e^{15} + \frac{3}{55}\sqrt{42}e^{23}, \frac{3}{110}\sqrt{258}e^{16} + \frac{3}{110}\sqrt{354}e^{34}$	$(-\frac{3}{55}, \frac{3}{11}, -\frac{6}{55}, -\frac{6}{55}, \frac{12}{55}, -\frac{9}{55}, \frac{27}{55}, \frac{9}{55}, -\frac{12}{55})$ $+\frac{3}{110}\sqrt{1110}e^2 \otimes e_9$	{123467, 2345}
953:44	$0, 0, 0, 0, \frac{11}{676}\sqrt{26}e^{12}, \frac{11}{676}\sqrt{1102}e^{13}, \frac{11}{169}\sqrt{82}e^{25},$ $\frac{11}{676}\sqrt{786}e^{15} + \frac{33}{169}\sqrt{2}e^{23}, \frac{11}{676}\sqrt{734}e^{24} + \frac{55}{676}\sqrt{42}e^{36}$	$(\frac{33}{676}, -\frac{209}{1352}, \frac{33}{338}, \frac{539}{1352}, -\frac{11}{104}, \frac{99}{676}, -\frac{44}{169}, -\frac{77}{1352}, \frac{165}{676})$ $+\frac{11}{338}\sqrt{590}e^3 \otimes e_7$	{278, 457}
953:44	$0, 0, 0, 0, \frac{39}{604}\sqrt{14}e^{12}, \frac{39}{604}\sqrt{42}e^{13}, \frac{13}{151}\sqrt{59}e^{25},$ $\frac{13}{604}\sqrt{942}e^{15} + \frac{13}{151}\sqrt{57}e^{23}, \frac{13}{604}\sqrt{1194}e^{24} + \frac{39}{604}\sqrt{70}e^{36}$	$(\frac{39}{604}, -\frac{221}{1208}, \frac{39}{302}, \frac{611}{1208}, -\frac{143}{1208}, \frac{117}{604}, -\frac{91}{302}, -\frac{65}{1208}, \frac{195}{604})$ $+\frac{65}{302}\sqrt{22}e^4 \otimes e_8$	{234, 358}
953:44	$0, 0, 0, 0, \frac{76}{2739}\sqrt{73}e^{12}, \frac{76}{913}\sqrt{41}e^{13}, \frac{76}{2739}\sqrt{831}e^{25},$ $\frac{76}{2739}\sqrt{83}e^{15} + \frac{152}{2739}\sqrt{118}e^{23}, \frac{76}{913}\sqrt{89}e^{24} + \frac{380}{2739}\sqrt{2}e^{36}$	$(\frac{266}{2739}, -\frac{608}{2739}, \frac{532}{2739}, \frac{646}{913}, -\frac{114}{913}, \frac{266}{913}, \frac{950}{2739}, -\frac{76}{2739}, \frac{1330}{2739})$ $+\frac{152}{2739}\sqrt{565}e^4 \otimes e_7$	{1349, 3567}
953:44	$0, 0, 0, 0, \frac{3}{44}\sqrt{30}e^{12}, \frac{1}{44}\sqrt{330}e^{13}, \frac{3}{22}\sqrt{30}e^{25},$ $\frac{1}{44}\sqrt{330}e^{15} + \frac{5}{22}\sqrt{6}e^{23}, \frac{1}{44}\sqrt{870}e^{24} + \frac{1}{44}\sqrt{210}e^{36}$	$(-\frac{1}{44}, \frac{25}{88}, -\frac{1}{22}, -\frac{35}{88}, \frac{23}{88}, -\frac{3}{44}, \frac{6}{11}, \frac{21}{88}, -\frac{5}{44})$ $+\frac{1}{22}\sqrt{570}e^2 \otimes e_4$	{12367, 1345678}
953:45	$0, 0, 0, 0, \frac{49}{242}\sqrt{6}e^{12}, \frac{7}{242}\sqrt{110}e^{13}, \frac{35}{242}\sqrt{6}e^{15},$ $\frac{7}{121}\sqrt{186}e^{14} + \frac{49}{242}\sqrt{538}e^{25}, \frac{7}{242}\sqrt{142}e^{16} + \frac{7}{242}\sqrt{794}e^{23}$	$(\frac{7}{121}, \frac{14}{121}, -\frac{35}{121}, \frac{28}{121}, \frac{21}{121}, -\frac{28}{121}, \frac{28}{121}, \frac{35}{121}, -\frac{21}{121})$ $+\frac{7}{242}\sqrt{894}e^4 \otimes e_9$	{136789, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:45	$0, 0, 0, 0, \frac{37}{2167}\sqrt{1074}e^{12}, \frac{592}{2167}\sqrt{6}e^{13}, \frac{740}{2167}\sqrt{3}e^{15}, \frac{740}{2167}\sqrt{3}e^{14} + \frac{37}{2167}\sqrt{1178}e^{25}, \frac{259}{2167}\sqrt{6}e^{16} + \frac{740}{2167}\sqrt{2}e^{23}$	$(-\frac{74}{2167}, -\frac{148}{2167}, \frac{999}{2167}, -\frac{296}{2167}, -\frac{222}{2167}, \frac{925}{2167}, -\frac{296}{2167}, -\frac{370}{2167}, \frac{851}{2167}) + \frac{333}{2167}\sqrt{46}e^3 \otimes e_8$	{1349, 458}
953:45	$0, 0, 0, 0, \frac{17}{505}\sqrt{69}e^{12}, \frac{238}{505}e^{13}, \frac{34}{505}\sqrt{165}e^{15}, \frac{153}{505}\sqrt{3}e^{14} + \frac{34}{505}\sqrt{130}e^{25}, \frac{17}{505}\sqrt{497}e^{16} + \frac{34}{505}\sqrt{191}e^{23}$	$(-\frac{17}{505}, -\frac{34}{505}, \frac{221}{505}, -\frac{68}{505}, -\frac{51}{505}, \frac{204}{505}, -\frac{68}{505}, -\frac{17}{101}, \frac{187}{505}) + \frac{17}{505}\sqrt{903}e^3 \otimes e_7$	{178, 567}
953:45	$0, 0, 0, 0, \frac{3}{703}\sqrt{1374}e^{12}, \frac{12}{703}\sqrt{210}e^{13}, \frac{18}{703}\sqrt{17}e^{15}, \frac{3}{703}\sqrt{3210}e^{14} + \frac{12}{703}\sqrt{159}e^{25}, \frac{12}{703}\sqrt{210}e^{16} + \frac{3}{703}\sqrt{3414}e^{23}$	$(-\frac{9}{703}, -\frac{18}{703}, \frac{75}{703}, -\frac{36}{703}, -\frac{27}{703}, \frac{66}{703}, -\frac{36}{703}, -\frac{45}{703}, \frac{3}{37}) + \frac{21}{703}\sqrt{78}e^1 \otimes e_4$	{234569, 245}
953:46	$0, 0, 0, 0, \frac{5}{218}\sqrt{606}e^{12}, \frac{5}{109}\sqrt{142}e^{13}, \frac{5}{218}\sqrt{102}e^{25}, \frac{5}{218}\sqrt{730}e^{15} + \frac{15}{109}\sqrt{22}e^{24}, \frac{5}{218}\sqrt{826}e^{16} + \frac{15}{218}\sqrt{30}e^{23}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{25}{109}, \frac{10}{109}, \frac{15}{109}, -\frac{20}{109}, \frac{25}{109}, \frac{20}{109}, -\frac{15}{109}) + \frac{15}{218}\sqrt{86}e^4 \otimes e_9$	{123589, 236789}
953:46	$0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{8}{53}\sqrt{5}e^{13}, \frac{4}{53}\sqrt{66}e^{25}, \frac{4}{53}\sqrt{86}e^{15} + \frac{4}{53}\sqrt{42}e^{24}, \frac{4}{53}\sqrt{42}e^{16} + \frac{16}{53}\sqrt{6}e^{23}$	$(-\frac{2}{53}, -\frac{4}{53}, \frac{24}{53}, -\frac{4}{53}, -\frac{6}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{8}{53}, \frac{20}{53}) + \frac{4}{53}\sqrt{186}e^3 \otimes e_8$	{123457, 2346}
953:46	$0, 0, 0, 0, \frac{35}{1831}\sqrt{1218}e^{12}, \frac{70}{1831}\sqrt{622}e^{13}, \frac{35}{1831}\sqrt{1794}e^{25}, \frac{70}{1831}\sqrt{502}e^{15} + \frac{420}{1831}\sqrt{6}e^{24}, \frac{35}{1831}\sqrt{1462}e^{16} + \frac{840}{1831}e^{23}$	$(-\frac{70}{1831}, -\frac{140}{1831}, \frac{875}{1831}, -\frac{140}{1831}, \frac{210}{1831}, \frac{805}{1831}, -\frac{350}{1831}, -\frac{280}{1831}, \frac{735}{1831}) + \frac{315}{1831}\sqrt{38}e^3 \otimes e_7$	{123589, 278}
953:46	$0, 0, 0, 0, \frac{18}{583}\sqrt{61}e^{12}, \frac{6}{583}\sqrt{849}e^{13}, \frac{6}{583}\sqrt{627}e^{25}, \frac{3}{583}\sqrt{4182}e^{15} + \frac{3}{583}\sqrt{3606}e^{24}, \frac{6}{583}\sqrt{849}e^{16} + \frac{15}{583}\sqrt{138}e^{23}$	$(-\frac{9}{583}, -\frac{18}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{27}{583}, \frac{60}{583}, -\frac{45}{583}, -\frac{36}{583}, \frac{51}{583}) + \frac{3}{583}\sqrt{3138}e^4 \otimes e_7$	{236789, 278}
953:47	$0, 0, 0, 0, \frac{5}{593}\sqrt{2010}e^{12}, \frac{105}{593}\sqrt{10}e^{13}, \frac{5}{593}\sqrt{5710}e^{15}, \frac{10}{593}\sqrt{935}e^{25} + \frac{20}{593}\sqrt{255}e^{34}, \frac{25}{593}\sqrt{122}e^{16} + \frac{20}{593}\sqrt{115}e^{23}$	$(\frac{15}{593}, \frac{30}{593}, -\frac{110}{593}, \frac{185}{593}, \frac{45}{593}, -\frac{95}{593}, \frac{60}{593}, \frac{75}{593}, -\frac{80}{593}) + \frac{20}{593}\sqrt{345}e^4 \otimes e_7$	{134569, 468}
953:47	$0, 0, 0, 0, \frac{26}{205}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{74}e^{13}, \frac{13}{205}\sqrt{42}e^{15}, \frac{13}{205}\sqrt{82}e^{25} + \frac{13}{41}\sqrt{6}e^{34}, \frac{26}{205}\sqrt{23}e^{16} + \frac{26}{205}\sqrt{29}e^{23}$	$(\frac{13}{205}, \frac{26}{205}, -\frac{13}{41}, \frac{26}{41}, \frac{39}{205}, -\frac{52}{205}, \frac{52}{205}, \frac{13}{41}, -\frac{39}{205}) + \frac{26}{205}\sqrt{87}e^4 \otimes e_9$	{234, 269}
953:47	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{42}e^{13}, \frac{1}{7}\sqrt{14}e^{15}, \frac{1}{7}\sqrt{7}e^{25} + \frac{1}{7}\sqrt{21}e^{34}, \frac{1}{7}\sqrt{7}e^{16} + \frac{2}{7}\sqrt{7}e^{23}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, 0, \frac{1}{2}) + \frac{2}{7}\sqrt{21}e^3 \otimes e_4$	{139, 146}
953:47	$0, 0, 0, 0, \frac{124}{3109}\sqrt{30}e^{12}, \frac{31}{3109}\sqrt{1786}e^{13}, \frac{31}{3109}\sqrt{4766}e^{15}, \frac{31}{3109}\sqrt{3498}e^{25} + \frac{31}{3109}\sqrt{2586}e^{34}, \frac{62}{3109}\sqrt{699}e^{16} + \frac{372}{3109}\sqrt{26}e^{23}$	$(-\frac{31}{3109}, -\frac{62}{3109}, \frac{837}{3109}, -\frac{992}{3109}, -\frac{93}{3109}, \frac{806}{3109}, -\frac{124}{3109}, -\frac{155}{3109}, \frac{775}{3109}) + \frac{372}{3109}\sqrt{39}e^3 \otimes e_7$	{134569, 389}
953:48	$0, 0, 0, 0, \frac{3}{26}\sqrt{26}e^{12}, \frac{1}{26}\sqrt{390}e^{13}, \frac{1}{26}\sqrt{182}e^{25}, \frac{1}{26}\sqrt{130}e^{15} + \frac{1}{13}\sqrt{78}e^{34}, \frac{1}{13}\sqrt{26}e^{16} + \frac{1}{26}\sqrt{598}e^{23}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, 0, \frac{1}{2}) + \frac{3}{26}\sqrt{130}e^3 \otimes e_4$	{12357, 1245679, 236, 249}
953:48	$0, 0, 0, 0, \frac{3}{26}\sqrt{26}e^{12}, \frac{1}{26}\sqrt{390}e^{13}, \frac{1}{26}\sqrt{182}e^{25}, \frac{1}{26}\sqrt{130}e^{15} + \frac{1}{13}\sqrt{78}e^{34}, \frac{1}{13}\sqrt{26}e^{16} + \frac{1}{26}\sqrt{598}e^{23}$	$(0, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, 0, \frac{1}{2}) - \frac{3}{26}\sqrt{130}e^3 \otimes e_4$	{12357, 1245679, 236, 249}
953:48	$0, 0, 0, 0, \frac{60}{1469}\sqrt{2}e^{12}, \frac{20}{1469}\sqrt{462}e^{13}, \frac{20}{1469}\sqrt{1273}e^{25}, \frac{40}{1469}\sqrt{293}e^{15} + \frac{20}{1469}\sqrt{1119}e^{34}, \frac{20}{1469}\sqrt{835}e^{16} + \frac{20}{1469}\sqrt{1178}e^{23}$	$(\frac{30}{1469}, \frac{60}{1469}, -\frac{230}{1469}, \frac{350}{1469}, \frac{90}{1469}, -\frac{200}{1469}, \frac{150}{1469}, \frac{120}{1469}, -\frac{170}{1469}) + \frac{720}{1469}e^4 \otimes e_7$	{1267, 234569}
953:48	$0, 0, 0, 0, \frac{96}{1523}\sqrt{30}e^{12}, \frac{64}{1523}\sqrt{213}e^{13}, \frac{32}{1523}\sqrt{1001}e^{25}, \frac{32}{1523}\sqrt{1002}e^{15} + \frac{32}{1523}\sqrt{717}e^{34}, \frac{96}{1523}\sqrt{73}e^{16} + \frac{32}{1523}\sqrt{478}e^{23}$	$(-\frac{16}{1523}, -\frac{32}{1523}, \frac{432}{1523}, -\frac{496}{1523}, -\frac{48}{1523}, \frac{416}{1523}, -\frac{80}{1523}, -\frac{64}{1523}, \frac{400}{1523}) + \frac{32}{1523}\sqrt{1302}e^3 \otimes e_7$	{123589, 2478}
953:49	$0, 0, 0, 0, \frac{4}{45}\sqrt{21}e^{12}, \frac{1}{15}\sqrt{21}e^{13}, \frac{1}{45}\sqrt{483}e^{15} + \frac{4}{45}\sqrt{21}e^{23}, \frac{1}{45}\sqrt{483}e^{14} + \frac{2}{45}\sqrt{210}e^{25}, \frac{2}{45}\sqrt{210}e^{16}$	$(-\frac{1}{15}, \frac{1}{5}, -\frac{2}{15}, \frac{2}{5}, \frac{2}{15}, -\frac{1}{5}, \frac{1}{15}, \frac{1}{3}, -\frac{4}{15}) + \frac{7}{45}\sqrt{33}e^2 \otimes e_9$	{1345789, 34679}
953:49	$0, 0, 0, 0, \frac{49}{394}\sqrt{6}e^{12}, \frac{7}{197}\sqrt{186}e^{13}, \frac{63}{394}\sqrt{6}e^{15} + \frac{21}{394}\sqrt{110}e^{23}, \frac{49}{197}\sqrt{282}e^{14} + \frac{7}{394}\sqrt{842}e^{25}, \frac{21}{394}\sqrt{46}e^{16}$	$(-\frac{21}{394}, \frac{28}{197}, -\frac{21}{197}, \frac{56}{197}, \frac{35}{394}, -\frac{63}{394}, \frac{7}{197}, \frac{91}{394}, -\frac{42}{197}) + \frac{7}{394}\sqrt{1498}e^4 \otimes e_7$	{136789, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:49	$0, 0, 0, 0, \frac{2}{103}\sqrt{805}e^{12}, \frac{1}{103}\sqrt{2730}e^{13}, \frac{2}{103}\sqrt{665}e^{15} + \frac{15}{103}\sqrt{14}e^{23},$ $\frac{1}{103}\sqrt{3710}e^{14} + \frac{4}{103}\sqrt{105}e^{25}, \frac{4}{103}\sqrt{105}e^{16}$	$(\frac{9}{103}, -\frac{13}{103}, \frac{18}{103}, -\frac{26}{103}, -\frac{4}{103}, \frac{27}{103}, \frac{5}{103}, -\frac{17}{103}, \frac{36}{103})$ $+ \frac{7}{103}\sqrt{130}e^1 \otimes e_4$	{2345679, 3469}
953:49	$0, 0, 0, 0, \frac{15}{103}\sqrt{14}e^{12}, \frac{1}{103}\sqrt{2730}e^{13}, \frac{1}{103}\sqrt{3710}e^{15} + \frac{2}{103}\sqrt{805}e^{23},$ $\frac{2}{103}\sqrt{665}e^{14} + \frac{4}{103}\sqrt{105}e^{25}, \frac{4}{103}\sqrt{105}e^{16}$	$(\frac{9}{103}, -\frac{13}{103}, \frac{18}{103}, -\frac{26}{103}, -\frac{4}{103}, \frac{27}{103}, \frac{5}{103}, -\frac{17}{103}, \frac{36}{103})$ $+ \frac{7}{103}\sqrt{130}e^3 \otimes e_8$	{2478, 458}
953:50	$0, 0, 0, 0, \frac{37}{4541}\sqrt{5422}e^{12}, \frac{74}{4541}\sqrt{771}e^{13},$ $\frac{74}{4541}\sqrt{1169}e^{15} + \frac{37}{4541}\sqrt{5502}e^{23}, \frac{37}{4541}\sqrt{4766}e^{14} + \frac{37}{4541}\sqrt{2238}e^{25}, \frac{148}{4541}\sqrt{138}e^{36}$	$(\frac{333}{4541}, -\frac{518}{4541}, \frac{666}{4541}, -\frac{1036}{4541}, -\frac{185}{4541}, \frac{999}{4541}, \frac{148}{4541}, -\frac{37}{239}, \frac{1665}{4541})$ $+ \frac{74}{4541}\sqrt{1990}e^1 \otimes e_4$	{234567, 346}
953:50	$0, 0, 0, 0, \frac{5}{241}\sqrt{1070}e^{12}, \frac{10}{241}\sqrt{10}e^{13}, \frac{10}{241}\sqrt{10}e^{15} + \frac{5}{241}\sqrt{230}e^{23},$ $\frac{5}{241}\sqrt{610}e^{14} + \frac{5}{241}\sqrt{1070}e^{25}, \frac{20}{241}\sqrt{55}e^{36}$	$(-\frac{15}{241}, \frac{50}{241}, -\frac{30}{241}, \frac{100}{241}, \frac{35}{241}, -\frac{45}{241}, \frac{20}{241}, \frac{85}{241}, -\frac{75}{241})$ $+ \frac{10}{241}\sqrt{505}e^2 \otimes e_9$	{134589, 234567}
953:50	$0, 0, 0, 0, \frac{111}{4541}\sqrt{282}e^{12}, \frac{74}{4541}\sqrt{771}e^{13},$ $\frac{74}{4541}\sqrt{821}e^{15} + \frac{37}{4541}\sqrt{2458}e^{23}, \frac{37}{4541}\sqrt{3194}e^{14} + \frac{37}{4541}\sqrt{2238}e^{25}, \frac{148}{4541}\sqrt{138}e^{36}$	$(\frac{333}{4541}, -\frac{518}{4541}, \frac{666}{4541}, -\frac{1036}{4541}, -\frac{185}{4541}, \frac{999}{4541}, \frac{148}{4541}, -\frac{37}{239}, \frac{1665}{4541})$ $+ \frac{74}{4541}\sqrt{1990}e^3 \otimes e_8$	{2478, 458}
953:50	$0, 0, 0, 0, \frac{58}{3779}\sqrt{690}e^{12}, \frac{290}{3779}\sqrt{33}e^{13},$ $\frac{174}{3779}\sqrt{30}e^{15} + \frac{58}{3779}\sqrt{1563}e^{23}, \frac{203}{3779}\sqrt{114}e^{14} + \frac{58}{3779}\sqrt{1055}e^{25}, \frac{87}{3779}\sqrt{222}e^{36}$	$(-\frac{174}{3779}, \frac{493}{3779}, -\frac{348}{3779}, \frac{986}{3779}, \frac{319}{3779}, -\frac{522}{3779}, \frac{145}{3779}, \frac{812}{3779}, -\frac{870}{3779})$ $+ \frac{290}{3779}\sqrt{73}e^4 \otimes e_7$	{136789, 357}
953:50	$0, 0, 0, 0, \frac{13}{181}\sqrt{30}e^{12}, \frac{26}{181}\sqrt{5}e^{13}, \frac{26}{181}\sqrt{5}e^{15} + \frac{13}{181}\sqrt{14}e^{23},$ $\frac{13}{181}\sqrt{154}e^{14} + \frac{13}{181}\sqrt{30}e^{25}, \frac{26}{181}\sqrt{29}e^{36}$	$(-\frac{13}{181}, \frac{52}{181}, -\frac{26}{181}, \frac{104}{181}, \frac{39}{181}, -\frac{39}{181}, \frac{26}{181}, \frac{91}{181}, -\frac{65}{181})$ $+ \frac{52}{181}\sqrt{19}e^4 \otimes e_9$	{2679, 569}
953:51	$0, 0, 0, 0, \frac{61}{3949}\sqrt{390}e^{12}, \frac{61}{3949}\sqrt{290}e^{13},$ $\frac{305}{3949}\sqrt{10}e^{15} + \frac{244}{3949}\sqrt{5}e^{23}, \frac{122}{3949}\sqrt{105}e^{25} + \frac{244}{3949}\sqrt{181}e^{34}, \frac{61}{3949}\sqrt{2846}e^{16}$	$(-\frac{305}{3949}, \frac{1098}{3949}, -\frac{610}{3949}, \frac{2501}{3949}, \frac{793}{3949}, -\frac{915}{3949}, \frac{488}{3949}, \frac{1891}{3949}, -\frac{1220}{3949})$ $+ \frac{488}{3949}\sqrt{103}e^4 \otimes e_9$	{2347, 345}
953:51	$0, 0, 0, 0, \frac{17}{893}\sqrt{498}e^{12}, \frac{221}{893}\sqrt{6}e^{13}, \frac{17}{893}\sqrt{1326}e^{15} + \frac{34}{893}\sqrt{57}e^{23},$ $\frac{68}{893}\sqrt{53}e^{25} + \frac{34}{893}\sqrt{285}e^{34}, \frac{51}{893}\sqrt{62}e^{16}$	$(-\frac{51}{893}, \frac{136}{893}, -\frac{102}{893}, \frac{17}{893}, \frac{85}{893}, -\frac{153}{893}, \frac{34}{893}, \frac{221}{893}, -\frac{204}{893})$ $+ \frac{34}{893}\sqrt{409}e^4 \otimes e_7$	{127, 468}
953:51	$0, 0, 0, 0, \frac{82}{3899}\sqrt{23}e^{12}, \frac{82}{3899}\sqrt{331}e^{13}, \frac{82}{3899}\sqrt{885}e^{15} + \frac{82}{557}\sqrt{15}e^{23},$ $\frac{82}{3899}\sqrt{889}e^{25} + \frac{41}{3899}\sqrt{2270}e^{34}, \frac{41}{3899}\sqrt{3810}e^{16}$	$(-\frac{246}{3899}, \frac{697}{3899}, -\frac{492}{3899}, \frac{1640}{3899}, \frac{451}{3899}, -\frac{738}{3899}, \frac{205}{3899}, \frac{164}{557}, -\frac{984}{3899})$ $+ \frac{82}{3899}\sqrt{1697}e^2 \otimes e_9$	{124567, 278}
953:51	$0, 0, 0, 0, \frac{47}{3557}\sqrt{3446}e^{12}, \frac{47}{3557}\sqrt{4494}e^{13},$ $\frac{235}{3557}\sqrt{154}e^{15} + \frac{1692}{3557}\sqrt{3}e^{23}, \frac{94}{3557}\sqrt{303}e^{25} + \frac{188}{3557}\sqrt{185}e^{34}, \frac{47}{3557}\sqrt{2670}e^{16}$	$(\frac{423}{3557}, -\frac{470}{3557}, \frac{846}{3557}, -\frac{1363}{3557}, -\frac{47}{3557}, \frac{1269}{3557}, \frac{376}{3557}, -\frac{517}{3557}, \frac{1692}{3557})$ $+ \frac{3760}{3557}e^3 \otimes e_4$	{124567, 146}
953:52	$0, 0, 0, 0, \frac{392}{4463}\sqrt{35}e^{12}, \frac{196}{4463}\sqrt{321}e^{13},$ $\frac{49}{4463}\sqrt{2818}e^{15} + \frac{196}{4463}\sqrt{159}e^{23}, \frac{833}{4463}\sqrt{6}e^{25} + \frac{392}{4463}\sqrt{62}e^{34}, \frac{245}{4463}\sqrt{138}e^{36}$	$(\frac{441}{4463}, -\frac{539}{4463}, \frac{882}{4463}, -\frac{1519}{4463}, -\frac{98}{4463}, \frac{1323}{4463}, \frac{343}{4463}, -\frac{637}{4463}, \frac{2205}{4463})$ $+ \frac{49}{4463}\sqrt{7966}e^3 \otimes e_4$	{1245679, 1469}
953:52	$0, 0, 0, 0, \frac{980}{4943}\sqrt{7}e^{12}, \frac{49}{4943}\sqrt{766}e^{13},$ $\frac{49}{4943}\sqrt{1506}e^{15} + \frac{588}{4943}\sqrt{5}e^{23}, \frac{98}{4943}\sqrt{1126}e^{25} + \frac{98}{4943}\sqrt{710}e^{34}, \frac{49}{4943}\sqrt{4002}e^{36}$	$(-\frac{294}{4943}, \frac{931}{4943}, -\frac{588}{4943}, \frac{2156}{4943}, \frac{637}{4943}, -\frac{882}{4943}, \frac{343}{4943}, \frac{1568}{4943}, -\frac{1470}{4943})$ $+ \frac{49}{4943}\sqrt{8414}e^2 \otimes e_9$	{1345789, 2356}
953:52	$0, 0, 0, 0, \frac{35}{4223}\sqrt{714}e^{12}, \frac{70}{4223}\sqrt{1122}e^{13},$ $\frac{35}{4223}\sqrt{4758}e^{15} + \frac{35}{4223}\sqrt{2910}e^{23}, \frac{175}{4223}\sqrt{170}e^{25} + \frac{35}{4223}\sqrt{5646}e^{34}, \frac{210}{4223}\sqrt{74}e^{36}$	$(-\frac{210}{4223}, \frac{595}{4223}, -\frac{420}{4223}, \frac{1400}{4223}, \frac{385}{4223}, -\frac{630}{4223}, \frac{175}{4223}, \frac{980}{4223}, -\frac{1050}{4223})$ $+ \frac{35}{4223}\sqrt{7882}e^4 \otimes e_7$	{1279, 468}
953:52	$0, 0, 0, 0, \frac{28}{495}\sqrt{105}e^{12}, \frac{28}{495}\sqrt{65}e^{13}, \frac{28}{495}\sqrt{115}e^{15} + \frac{14}{495}\sqrt{555}e^{23},$ $\frac{28}{495}\sqrt{30}e^{25} + \frac{28}{33}e^{34}, \frac{14}{495}\sqrt{710}e^{36}$	$(-\frac{7}{99}, \frac{28}{99}, -\frac{14}{99}, \frac{7}{33}, \frac{7}{33}, -\frac{7}{33}, \frac{14}{99}, \frac{49}{99}, -\frac{35}{99})$ $+ \frac{14}{495}\sqrt{2030}e^4 \otimes e_9$	{123467, 13456, 235789, 389}
953:52	$0, 0, 0, 0, \frac{28}{495}\sqrt{105}e^{12}, \frac{28}{495}\sqrt{65}e^{13}, \frac{28}{495}\sqrt{115}e^{15} + \frac{14}{495}\sqrt{555}e^{23},$ $\frac{28}{495}\sqrt{30}e^{25} + \frac{28}{33}e^{34}, \frac{14}{495}\sqrt{710}e^{36}$	$(-\frac{7}{99}, \frac{28}{99}, -\frac{14}{99}, \frac{7}{11}, \frac{7}{33}, -\frac{7}{33}, \frac{14}{99}, \frac{49}{99}, -\frac{35}{99})$ $+ \frac{14}{495}\sqrt{2030}e^4 \otimes e_9$	{123467, 13456, 235789, 389}
953:54	$0, 0, 0, 0, -\frac{1}{29}\sqrt{87}e^{12}, \frac{1}{29}\sqrt{319}e^{13}, \frac{1}{29}\sqrt{290}e^{15},$ $\frac{1}{29}\sqrt{174}e^{16} + \frac{4}{29}\sqrt{29}e^{23}, \frac{1}{29}\sqrt{667}e^{25} + \frac{1}{29}\sqrt{435}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{4}{29}\sqrt{87}e^4 \otimes e_9$	{12389, 1269, 234568, 245, 12389, 1269, 234568, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:54	$0, 0, 0, 0, \frac{1}{29}\sqrt{87}e^{12}, \frac{1}{29}\sqrt{319}e^{13}, \frac{1}{29}\sqrt{290}e^{15},$ $\frac{1}{29}\sqrt{174}e^{16} + \frac{4}{29}\sqrt{29}e^{23}, \frac{1}{29}\sqrt{667}e^{25} + \frac{1}{29}\sqrt{435}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{4}{29}\sqrt{87}e^4 \otimes e_9$	{12389, 1269, 234568, 245, 12389, 1269, 234568, 245}
953:54	$0, 0, 0, 0, -\frac{13}{41}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{82}e^{13}, \frac{13}{205}\sqrt{42}e^{15},$ $\frac{13}{205}\sqrt{74}e^{16} + \frac{26}{205}\sqrt{29}e^{23}, \frac{26}{205}\sqrt{23}e^{25} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{1345689, 1459, 348, 46, 1345689, 1459, 348, 46}
953:54	$0, 0, 0, 0, \frac{13}{205}\sqrt{6}e^{12}, \frac{13}{205}\sqrt{82}e^{13}, \frac{13}{205}\sqrt{42}e^{15},$ $\frac{13}{205}\sqrt{74}e^{16} + \frac{26}{205}\sqrt{29}e^{23}, \frac{26}{205}\sqrt{23}e^{25} + \frac{26}{205}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^2 \otimes e_4$	{1345689, 1459, 348, 46, 1345689, 1459, 348, 46}
953:54	$0, 0, 0, 0, -\frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{1}{7}\sqrt{14}e^{15},$ $\frac{1}{7}\sqrt{42}e^{16} + \frac{2}{7}\sqrt{7}e^{23}, \frac{1}{7}\sqrt{7}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^4 \otimes e_8$	{138, 146, 35689, 459, 138, 146, 35689, 459}
953:54	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{1}{7}\sqrt{14}e^{15},$ $\frac{1}{7}\sqrt{42}e^{16} + \frac{2}{7}\sqrt{7}e^{23}, \frac{1}{7}\sqrt{7}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^4 \otimes e_8$	{138, 146, 35689, 459, 138, 146, 35689, 459}
953:54	$0, 0, 0, 0, -\frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{70}e^{15},$ $\frac{1}{7}\sqrt{42}e^{16} + \frac{2}{7}\sqrt{7}e^{23}, \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^4 \otimes e_7$	{134568, 145, 3489, 469, 134568, 145, 3489, 469}
953:54	$0, 0, 0, 0, \frac{1}{7}\sqrt{21}e^{12}, \frac{1}{7}\sqrt{35}e^{13}, \frac{1}{7}\sqrt{70}e^{15},$ $\frac{1}{7}\sqrt{42}e^{16} + \frac{2}{7}\sqrt{7}e^{23}, \frac{1}{7}\sqrt{35}e^{25} + \frac{1}{7}\sqrt{21}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^4 \otimes e_7$	{134568, 145, 3489, 469, 134568, 145, 3489, 469}
953:54	$0, 0, 0, 0, -\frac{1}{380}\sqrt{174}e^{12}, \frac{1}{380}\sqrt{298}e^{13}, \frac{9}{95}e^{15},$ $\frac{1}{190}\sqrt{266}e^{16} + \frac{1}{95}\sqrt{59}e^{23}, \frac{1}{380}\sqrt{1006}e^{25} + \frac{21}{380}\sqrt{2}e^{36}$	$(-\frac{1}{380}, -\frac{1}{190}, -\frac{1}{190}, \frac{13}{190}, -\frac{3}{380}, -\frac{3}{380}, -\frac{1}{95}, -\frac{1}{95}, -\frac{1}{76})$ $+ \frac{1}{190}\sqrt{354}e^3 \otimes e_7$	{134568, 13568, 3489, 389, 134568, 13568, 3489, 389}
953:54	$0, 0, 0, 0, \frac{1}{380}\sqrt{174}e^{12}, \frac{1}{380}\sqrt{298}e^{13}, \frac{9}{95}e^{15},$ $\frac{1}{190}\sqrt{266}e^{16} + \frac{1}{95}\sqrt{59}e^{23}, \frac{1}{380}\sqrt{1006}e^{25} + \frac{21}{380}\sqrt{2}e^{36}$	$(-\frac{1}{380}, -\frac{1}{190}, -\frac{1}{190}, \frac{13}{190}, -\frac{3}{380}, -\frac{3}{380}, -\frac{1}{95}, -\frac{1}{95}, -\frac{1}{76})$ $+ \frac{1}{190}\sqrt{354}e^3 \otimes e_7$	{134568, 13568, 3489, 389, 134568, 13568, 3489, 389}
953:54	$0, 0, 0, 0, -\frac{26}{205}\sqrt{6}e^{12}, \frac{26}{205}\sqrt{23}e^{13}, \frac{13}{205}\sqrt{42}e^{15},$ $\frac{13}{205}\sqrt{74}e^{16} + \frac{26}{205}\sqrt{29}e^{23}, \frac{13}{205}\sqrt{82}e^{25} + \frac{13}{41}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^3 \otimes e_4$	{12359, 1245689, 236, 248, 12359, 1245689, 236, 248}
953:54	$0, 0, 0, 0, \frac{26}{205}\sqrt{6}e^{12}, \frac{26}{205}\sqrt{23}e^{13}, \frac{13}{205}\sqrt{42}e^{15},$ $\frac{13}{205}\sqrt{74}e^{16} + \frac{26}{205}\sqrt{29}e^{23}, \frac{13}{205}\sqrt{82}e^{25} + \frac{13}{41}\sqrt{6}e^{36}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87}e^3 \otimes e_4$	{12359, 1245689, 236, 248, 12359, 1245689, 236, 248}
953:56	$0, 0, 0, 0, \frac{3}{26}\sqrt{26}e^{12}, \frac{1}{13}\sqrt{26}e^{13}, \frac{1}{26}\sqrt{182}e^{25},$ $\frac{1}{26}\sqrt{390}e^{16} + \frac{1}{26}\sqrt{598}e^{23}, \frac{1}{26}\sqrt{130}e^{15} + \frac{1}{13}\sqrt{78}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{3}{26}\sqrt{130}e^4 \otimes e_8$	{234, 268}
953:56	$0, 0, 0, 0, \frac{7}{3007}\sqrt{1074}e^{12}, \frac{14}{3007}\sqrt{1194}e^{13}, \frac{329}{3007}\sqrt{2}e^{25},$ $\frac{119}{3007}\sqrt{6}e^{16} + \frac{112}{3007}\sqrt{10}e^{23}, \frac{42}{3007}\sqrt{130}e^{15} + \frac{112}{3007}\sqrt{15}e^{36}$	$(-\frac{14}{3007}, -\frac{28}{3007}, -\frac{21}{3007}, \frac{364}{3007}, -\frac{42}{3007}, -\frac{35}{3007}, -\frac{70}{3007}, -\frac{49}{3007}, -\frac{56}{3007})$ $+ \frac{7}{3007}\sqrt{5286}e^3 \otimes e_7$	{1234589, 123589}
953:56	$0, 0, 0, 0, \frac{141}{3061}\sqrt{138}e^{12}, \frac{94}{3061}\sqrt{530}e^{13}, \frac{94}{3061}\sqrt{210}e^{25},$ $\frac{141}{3061}\sqrt{230}e^{16} + \frac{47}{3061}\sqrt{1794}e^{23}, \frac{47}{3061}\sqrt{314}e^{15} + \frac{235}{3061}\sqrt{6}e^{36}$	$(\frac{188}{3061}, \frac{376}{3061}, \frac{282}{3061}, -\frac{2021}{3061}, \frac{564}{3061}, \frac{470}{3061}, \frac{940}{3061}, \frac{658}{3061}, \frac{752}{3061})$ $+ \frac{517}{3061}\sqrt{42}e^1 \otimes e_4$	{123789, 12679}
953:56	$0, 0, 0, 0, \frac{294}{2893}\sqrt{61}e^{12}, \frac{49}{2893}\sqrt{1290}e^{13}, \frac{98}{2893}\sqrt{269}e^{25},$ $\frac{147}{2893}\sqrt{138}e^{16} + \frac{49}{2893}\sqrt{1730}e^{23}, \frac{294}{2893}\sqrt{23}e^{15} + \frac{588}{2893}e^{36}$	$(\frac{196}{2893}, \frac{392}{2893}, \frac{294}{2893}, -\frac{2009}{2893}, \frac{588}{2893}, \frac{490}{2893}, \frac{980}{2893}, \frac{686}{2893}, \frac{784}{2893})$ $+ \frac{49}{2893}\sqrt{4902}e^2 \otimes e_4$	{348, 46}
953:56	$0, 0, 0, 0, \frac{3}{53}\sqrt{106}e^{12}, \frac{1}{53}\sqrt{1166}e^{13}, \frac{4}{53}\sqrt{53}e^{25},$ $\frac{1}{53}\sqrt{1590}e^{16} + \frac{1}{53}\sqrt{742}e^{23}, \frac{5}{53}\sqrt{106}e^{15} + \frac{2}{53}\sqrt{318}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{3}{53}\sqrt{530}e^4 \otimes e_9$	{134568, 145}
953:63	$0, 0, 0, 0, -\frac{26}{535}\sqrt{145}e^{12}, \frac{26}{535}\sqrt{145}e^{13}, \frac{26}{535}\sqrt{134}e^{15}, \frac{26}{535}\sqrt{134}e^{16},$ $\frac{26}{535}\sqrt{179}e^{14} + \frac{26}{535}\sqrt{33}e^{25} + \frac{26}{535}\sqrt{33}e^{36}$	$(\frac{156}{535}, -\frac{91}{535}, -\frac{91}{535}, -\frac{182}{535}, \frac{13}{107}, \frac{13}{107}, \frac{221}{535}, \frac{221}{535}, -\frac{26}{535})$ $+ \frac{208}{535}\sqrt{7}e^1 \otimes e_4$	{2345678, 2457, 4, 2345678, 2457, 4}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:63	$0, 0, 0, 0, \frac{26}{535}\sqrt{145e^{12}}, \frac{26}{535}\sqrt{145e^{13}}, \frac{26}{535}\sqrt{134e^{15}}, \frac{26}{535}\sqrt{134e^{16}},$ $\frac{26}{535}\sqrt{179e^{14}} + \frac{26}{535}\sqrt{33e^{25}} + \frac{26}{535}\sqrt{33e^{36}}$	$(\frac{156}{535}, -\frac{91}{535}, -\frac{91}{535}, -\frac{182}{535}, \frac{13}{107}, \frac{13}{107}, \frac{221}{535}, \frac{221}{535}, -\frac{26}{535})$ $+ \frac{208}{535}\sqrt{7e^1} \otimes e_4$	{2345678, 2457, 4, 2345678, 2457, 4}
953:63	$0, 0, 0, 0, -\frac{28}{233}\sqrt{15e^{12}}, \frac{14}{233}\sqrt{146e^{13}}, \frac{14}{233}\sqrt{246e^{15}}, \frac{14}{233}\sqrt{166e^{16}},$ $\frac{14}{233}\sqrt{186e^{14}} + \frac{14}{233}\sqrt{146e^{25}} + \frac{28}{233}\sqrt{15e^{36}}$	$(-\frac{63}{233}, \frac{70}{233}, \frac{70}{233}, \frac{140}{233}, \frac{7}{233}, \frac{7}{233}, -\frac{56}{233}, -\frac{56}{233}, \frac{77}{233})$ $+ \frac{28}{233}\sqrt{103e^4} \otimes e_7$	{134568, 145, 3489, 469, 134568, 145, 3489, 469}
953:63	$0, 0, 0, 0, \frac{28}{233}\sqrt{15e^{12}}, \frac{14}{233}\sqrt{146e^{13}}, \frac{14}{233}\sqrt{246e^{15}}, \frac{14}{233}\sqrt{166e^{16}},$ $\frac{14}{233}\sqrt{186e^{14}} + \frac{14}{233}\sqrt{146e^{25}} + \frac{28}{233}\sqrt{15e^{36}}$	$(-\frac{63}{233}, \frac{70}{233}, \frac{70}{233}, \frac{140}{233}, \frac{7}{233}, \frac{7}{233}, -\frac{56}{233}, -\frac{56}{233}, \frac{77}{233})$ $+ \frac{28}{233}\sqrt{103e^4} \otimes e_7$	{134568, 145, 3489, 469, 134568, 145, 3489, 469}
953:65	$0, 0, 0, 0, \frac{49}{3733}\sqrt{4966e^{12}}, \frac{490}{3733}\sqrt{17e^{13}}, \frac{392}{3733}\sqrt{51e^{25}},$ $\frac{147}{3733}\sqrt{258e^{16}}, \frac{98}{3733}\sqrt{271e^{15}} + \frac{49}{3733}\sqrt{3410e^{24}} + \frac{49}{3733}\sqrt{1866e^{36}}$	$(-\frac{539}{3733}, \frac{1323}{3733}, \frac{392}{3733}, -\frac{1078}{3733}, \frac{784}{3733}, -\frac{147}{3733}, \frac{2107}{3733}, -\frac{686}{3733}, \frac{245}{3733})$ $+ \frac{294}{3733}\sqrt{181e^2} \otimes e_4$	{1345678, 1457}
953:65	$0, 0, 0, 0, \frac{59}{3949}\sqrt{2426e^{12}}, \frac{118}{3949}\sqrt{559e^{13}}, \frac{118}{3949}\sqrt{582e^{25}},$ $\frac{177}{3949}\sqrt{274e^{16}}, \frac{118}{3949}\sqrt{743e^{15}} + \frac{59}{3949}\sqrt{3886e^{24}} + \frac{59}{3949}\sqrt{690e^{36}}$	$(\frac{1003}{3949}, -\frac{1239}{3949}, -\frac{118}{3949}, \frac{2006}{3949}, -\frac{236}{3949}, \frac{885}{3949}, -\frac{1475}{3949}, \frac{1888}{3949}, \frac{767}{3949})$ $+ \frac{354}{3949}\sqrt{183e^4} \otimes e_7$	{236789, 279}
953:65	$0, 0, 0, 0, \frac{1}{23}\sqrt{22e^{12}}, \frac{3}{23}\sqrt{11e^{13}}, \frac{1}{23}\sqrt{165e^{25}}, \frac{2}{23}\sqrt{66e^{16}},$ $\frac{1}{23}\sqrt{22e^{15}} + \frac{1}{23}\sqrt{209e^{24}} + \frac{1}{23}\sqrt{66e^{36}}$	$(-\frac{3}{23}, \frac{7}{23}, \frac{2}{23}, -\frac{6}{23}, \frac{4}{23}, -\frac{1}{23}, \frac{11}{23}, -\frac{4}{23}, \frac{1}{23})$ $+ \frac{1}{23}\sqrt{429e^2} \otimes e_8$	{138, 279}
953:65	$0, 0, 0, 0, \frac{5}{3463}\sqrt{5318e^{12}}, \frac{5}{3463}\sqrt{3274e^{13}}, \frac{5}{3463}\sqrt{714e^{25}},$ $\frac{30}{3463}\sqrt{178e^{16}}, \frac{5}{3463}\sqrt{4130e^{15}} + \frac{5}{3463}\sqrt{6646e^{24}} + \frac{25}{3463}\sqrt{114e^{36}}$	$(\frac{70}{3463}, -\frac{120}{3463}, -\frac{25}{3463}, \frac{140}{3463}, -\frac{50}{3463}, \frac{45}{3463}, -\frac{170}{3463}, \frac{115}{3463}, \frac{20}{3463})$ $+ \frac{30}{3463}\sqrt{182e^4} \otimes e_8$	{1378, 23689}
953:65	$0, 0, 0, 0, \frac{7}{247}\sqrt{62e^{12}}, \frac{7}{247}\sqrt{262e^{13}}, \frac{7}{247}\sqrt{258e^{25}}, \frac{42}{247}e^{16},$ $\frac{7}{247}\sqrt{230e^{15}} + \frac{35}{247}\sqrt{2e^{24}} + \frac{7}{247}\sqrt{246e^{36}}$	$(\frac{28}{247}, -\frac{42}{247}, -\frac{7}{247}, \frac{56}{247}, -\frac{14}{247}, \frac{21}{247}, -\frac{56}{247}, \frac{49}{247}, \frac{14}{247})$ $+ \frac{84}{247}\sqrt{3e^3} \otimes e_7$	{1234589, 457}
953:68	$0, 0, 0, 0, -\frac{13}{440}\sqrt{714e^{12}}, \frac{39}{440}\sqrt{6e^{13}}, \frac{13}{220}\sqrt{82e^{15}},$ $\frac{26}{55}e^{16} + \frac{13}{220}\sqrt{146e^{24}}, \frac{13}{440}\sqrt{1006e^{25}} + \frac{13}{440}\sqrt{346e^{36}}$	$(-\frac{91}{440}, \frac{39}{110}, \frac{39}{110}, -\frac{91}{220}, \frac{13}{88}, \frac{13}{88}, -\frac{13}{220}, -\frac{13}{220}, \frac{221}{440})$ $+ \frac{26}{55}\sqrt{6e^2} \otimes e_4$	{12369, 1345679, 235, 347, 12369, 1345679, 235, 347}
953:68	$0, 0, 0, 0, \frac{13}{440}\sqrt{714e^{12}}, \frac{39}{440}\sqrt{6e^{13}}, \frac{13}{220}\sqrt{82e^{15}},$ $\frac{26}{55}e^{16} + \frac{13}{220}\sqrt{146e^{24}}, \frac{13}{440}\sqrt{1006e^{25}} + \frac{13}{440}\sqrt{346e^{36}}$	$(-\frac{91}{440}, \frac{39}{110}, \frac{39}{110}, -\frac{91}{220}, \frac{13}{88}, \frac{13}{88}, -\frac{13}{220}, -\frac{13}{220}, \frac{221}{440})$ $+ \frac{26}{55}\sqrt{6e^2} \otimes e_4$	{12369, 1345679, 235, 347, 12369, 1345679, 235, 347}
953:68	$0, 0, 0, 0, -\frac{28}{485}\sqrt{3e^{12}}, \frac{28}{485}\sqrt{3e^{13}}, \frac{28}{485}\sqrt{71e^{15}},$ $\frac{28}{485}\sqrt{134e^{16}} + \frac{28}{485}\sqrt{205e^{24}}, \frac{28}{485}e^{25} + \frac{28}{485}\sqrt{206e^{36}}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{485}, \frac{14}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402e^4} \otimes e_9$	{126789, 1359, 234567, 48, 126789, 1359, 234567, 48}
953:68	$0, 0, 0, 0, \frac{28}{485}\sqrt{3e^{12}}, \frac{28}{485}\sqrt{3e^{13}}, \frac{28}{485}\sqrt{71e^{15}},$ $\frac{28}{485}\sqrt{134e^{16}} + \frac{28}{485}\sqrt{205e^{24}}, \frac{28}{485}e^{25} + \frac{28}{485}\sqrt{206e^{36}}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{485}, \frac{14}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402e^4} \otimes e_9$	{126789, 1359, 234567, 48, 126789, 1359, 234567, 48}
953:68	$0, 0, 0, 0, -\frac{5}{428}\sqrt{222e^{12}}, \frac{5}{428}\sqrt{570e^{13}}, \frac{5}{107}\sqrt{101e^{15}},$ $\frac{5}{214}\sqrt{330e^{16}} + \frac{65}{214}\sqrt{2e^{24}}, \frac{5}{428}\sqrt{1246e^{25}} + \frac{5}{428}\sqrt{898e^{36}}$	$(\frac{45}{428}, -\frac{25}{214}, -\frac{25}{214}, \frac{45}{214}, -\frac{5}{428}, -\frac{5}{428}, \frac{10}{107}, \frac{10}{107}, -\frac{55}{428})$ $+ \frac{15}{107}\sqrt{11e^4} \otimes e_7$	{123678, 134568, 235789, 3489, 123678, 134568, 235789, 3489}
953:68	$0, 0, 0, 0, \frac{5}{428}\sqrt{222e^{12}}, \frac{5}{428}\sqrt{570e^{13}}, \frac{5}{107}\sqrt{101e^{15}},$ $\frac{5}{214}\sqrt{330e^{16}} + \frac{65}{214}\sqrt{2e^{24}}, \frac{5}{428}\sqrt{1246e^{25}} + \frac{5}{428}\sqrt{898e^{36}}$	$(\frac{45}{428}, -\frac{25}{214}, -\frac{25}{214}, \frac{45}{214}, -\frac{5}{428}, -\frac{5}{428}, \frac{10}{107}, \frac{10}{107}, -\frac{55}{428})$ $+ \frac{15}{107}\sqrt{11e^4} \otimes e_7$	{123678, 134568, 235789, 3489, 123678, 134568, 235789, 3489}
953:70	$0, 0, 0, 0, \frac{84}{2521}\sqrt{31e^{12}}, \frac{84}{2521}\sqrt{109e^{13}}, \frac{84}{2521}\sqrt{223e^{25}},$ $\frac{42}{2521}\sqrt{1187e^{16}} + \frac{84}{2521}\sqrt{373e^{24}}, \frac{210}{2521}\sqrt{57e^{15}} + \frac{42}{2521}\sqrt{761e^{36}}$	$(\frac{315}{2521}, -\frac{483}{2521}, -\frac{84}{2521}, \frac{1029}{2521}, -\frac{168}{2521}, \frac{231}{2521}, -\frac{651}{2521}, \frac{546}{2521}, \frac{147}{2521})$ $+ \frac{84}{2521}\sqrt{570e^4} \otimes e_9$	{134568, 235789}
953:70	$0, 0, 0, 0, \frac{78}{2801}\sqrt{178e^{12}}, \frac{156}{2801}\sqrt{82e^{13}}, \frac{2184}{2801}e^{25},$ $\frac{78}{2801}\sqrt{7e^{16}} + \frac{78}{2801}\sqrt{734e^{24}}, \frac{78}{2801}\sqrt{285e^{15}} + \frac{78}{2801}\sqrt{271e^{36}}$	$(\frac{663}{2801}, -\frac{819}{2801}, -\frac{78}{2801}, \frac{2067}{2801}, -\frac{156}{2801}, \frac{585}{2801}, -\frac{975}{2801}, \frac{1248}{2801}, \frac{507}{2801})$ $+ \frac{156}{2801}\sqrt{570e^4} \otimes e_7$	{123459, 3567}
953:70	$0, 0, 0, 0, \frac{6}{109}\sqrt{17e^{12}}, \frac{6}{109}\sqrt{62e^{13}}, \frac{6}{109}\sqrt{62e^{25}},$ $\frac{6}{109}\sqrt{19e^{16}} + \frac{6}{109}\sqrt{17e^{24}}, \frac{12}{109}\sqrt{15e^{15}} + \frac{30}{109}\sqrt{2e^{36}}$	$(\frac{9}{109}, -\frac{15}{109}, -\frac{3}{109}, \frac{30}{109}, -\frac{6}{109}, \frac{6}{109}, -\frac{21}{109}, \frac{15}{109}, \frac{3}{109})$ $+ \frac{24}{109}\sqrt{6e^3} \otimes e_7$	{1234589, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:70	$0, 0, 0, 0, \frac{66}{2689}\sqrt{1174e^{12}}, \frac{264}{2689}\sqrt{10e^{13}}, \frac{132}{2689}\sqrt{302e^{25}},$ $\frac{66}{2689}\sqrt{23e^{16}} + \frac{330}{2689}\sqrt{26e^{24}}, \frac{66}{2689}\sqrt{285e^{15}} + \frac{66}{2689}\sqrt{239e^{36}}$	$(-\frac{297}{2689}, \frac{957}{2689}, \frac{330}{2689}, -\frac{1221}{2689}, \frac{660}{2689}, \frac{33}{2689}, \frac{1617}{2689}, -\frac{264}{2689}, \frac{363}{2689})$ $+ \frac{132}{2689}\sqrt{570e^2} \otimes e_4$	{127, 469}
953:72	$0, 0, 0, 0, \frac{1}{13}\sqrt{13e^{12}}, \frac{1}{13}\sqrt{6e^{13}}, \frac{1}{13}e^{15},$ $\frac{1}{13}\sqrt{7e^{14}} + \frac{1}{13}\sqrt{11e^{36}}, \frac{1}{13}\sqrt{14e^{16}} + \frac{1}{13}\sqrt{13e^{25}}$	$(\frac{1}{13}, 0, -\frac{1}{13}, -\frac{2}{13}, \frac{1}{13}, 0, \frac{2}{13}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{23e^2} \otimes e_8$	{1234679, 468}
953:72	$0, 0, 0, 0, \frac{106}{4757}\sqrt{670e^{12}}, \frac{53}{4757}\sqrt{942e^{13}}, \frac{53}{4757}\sqrt{3770e^{15}},$ $\frac{53}{4757}\sqrt{4638e^{14}} + \frac{689}{4757}\sqrt{14e^{36}}, \frac{159}{4757}\sqrt{386e^{16}} + \frac{53}{4757}\sqrt{3270e^{25}}$	$(-\frac{795}{4757}, \frac{212}{4757}, \frac{1219}{4757}, \frac{2438}{4757}, -\frac{583}{4757}, \frac{424}{4757}, -\frac{1378}{4757}, \frac{1643}{4757}, -\frac{371}{4757})$ $+ \frac{530}{4757}\sqrt{85e^4} \otimes e_9$	{124567, 146}
953:72	$0, 0, 0, 0, \frac{71}{4983}\sqrt{830e^{12}}, \frac{71}{1661}\sqrt{226e^{13}}, \frac{568}{4983}\sqrt{57e^{15}},$ $\frac{355}{1661}\sqrt{14e^{14}} + \frac{142}{4983}\sqrt{38e^{36}}, \frac{284}{4983}\sqrt{130e^{16}} + \frac{71}{4983}\sqrt{14e^{25}}$	$(-\frac{994}{4983}, \frac{355}{4983}, \frac{568}{1661}, \frac{1136}{1661}, -\frac{213}{1661}, \frac{710}{4983}, -\frac{1633}{4983}, \frac{2414}{4983}, -\frac{284}{4983})$ $+ \frac{142}{4983}\sqrt{2110e^4} \otimes e_7$	{145, 3489}
953:72	$0, 0, 0, 0, \frac{22}{1033}\sqrt{710e^{12}}, \frac{11}{1033}\sqrt{2590e^{13}}, \frac{11}{1033}\sqrt{3370e^{15}},$ $\frac{55}{1033}\sqrt{146e^{14}} + \frac{55}{1033}\sqrt{30e^{36}}, \frac{11}{1033}\sqrt{2870e^{16}} + \frac{11}{1033}\sqrt{1590e^{25}}$	$(\frac{231}{1033}, \frac{22}{1033}, -\frac{187}{1033}, -\frac{374}{1033}, \frac{253}{1033}, \frac{44}{1033}, \frac{484}{1033}, -\frac{143}{1033}, \frac{275}{1033})$ $+ \frac{22}{1033}\sqrt{2215e^1} \otimes e_4$	{2345679, 3469}
953:72	$0, 0, 0, 0, \frac{13}{109}\sqrt{10e^{12}}, \frac{13}{327}\sqrt{166e^{13}}, \frac{26}{327}\sqrt{71e^{15}},$ $\frac{13}{327}\sqrt{218e^{14}} + \frac{26}{327}\sqrt{83e^{36}}, \frac{26}{327}\sqrt{31e^{16}} + \frac{13}{327}\sqrt{22e^{25}}$	$(-\frac{52}{327}, \frac{13}{327}, \frac{26}{109}, \frac{52}{109}, -\frac{13}{109}, \frac{26}{327}, \frac{91}{327}, \frac{104}{327}, -\frac{26}{327})$ $+ \frac{52}{327}\sqrt{35e^3} \otimes e_7$	{13458, 24579}
953:73	$0, 0, 0, 0, \frac{34}{1685}\sqrt{1030e^{12}}, \frac{34}{1685}\sqrt{582e^{13}}, \frac{34}{1685}\sqrt{579e^{15}},$ $\frac{34}{1685}\sqrt{1226e^{24}} + \frac{68}{1685}\sqrt{209e^{36}}, \frac{34}{1685}\sqrt{1419e^{16}} + \frac{34}{1685}\sqrt{127e^{25}}$	$(-\frac{51}{337}, \frac{68}{1685}, \frac{391}{1685}, \frac{459}{1685}, -\frac{187}{1685}, \frac{136}{1685}, -\frac{442}{1685}, \frac{527}{1685}, -\frac{119}{1685})$ $+ \frac{204}{1685}\sqrt{43e^4} \otimes e_9$	{139, 458}
953:73	$0, 0, 0, 0, \frac{13}{220}\sqrt{82e^{12}}, \frac{39}{440}\sqrt{6e^{13}}, \frac{13}{440}\sqrt{714e^{15}},$ $\frac{13}{440}\sqrt{1006e^{24}} + \frac{13}{440}\sqrt{346e^{36}}, \frac{26}{55}e^{16} + \frac{13}{220}\sqrt{146e^{25}}$	$(-\frac{91}{440}, \frac{13}{176}, \frac{39}{110}, \frac{377}{880}, -\frac{117}{880}, \frac{13}{880}, -\frac{299}{880}, \frac{221}{440}, -\frac{13}{220})$ $+ \frac{26}{55}\sqrt{6e^4} \otimes e_7$	{234, 357}
953:73	$0, 0, 0, 0, \frac{4}{77}\sqrt{95e^{12}}, \frac{2}{77}\sqrt{285e^{13}}, \frac{2}{77}\sqrt{690e^{15}},$ $\frac{2}{77}\sqrt{445e^{24}} + \frac{2}{77}\sqrt{1015e^{36}}, \frac{30}{77}\sqrt{3e^{16}} + \frac{2}{11}\sqrt{5e^{25}}$	$(-\frac{15}{77}, \frac{5}{77}, \frac{25}{77}, \frac{30}{77}, -\frac{10}{77}, \frac{10}{77}, -\frac{25}{77}, \frac{5}{11}, -\frac{5}{77})$ $+ \frac{36}{77}\sqrt{5e^3} \otimes e_7$	{1246789, 346}
953:73	$0, 0, 0, 0, \frac{5}{107}\sqrt{101e^{12}}, \frac{5}{428}\sqrt{570e^{13}}, \frac{5}{428}\sqrt{222e^{15}},$ $\frac{5}{428}\sqrt{1246e^{24}} + \frac{5}{428}\sqrt{898e^{36}}, \frac{5}{214}\sqrt{330e^{16}} + \frac{65}{214}\sqrt{2e^{25}}$	$(\frac{45}{428}, -\frac{5}{856}, -\frac{25}{214}, -\frac{105}{856}, \frac{85}{856}, -\frac{5}{428}, \frac{175}{856}, -\frac{55}{428}, \frac{10}{107})$ $+ \frac{15}{107}\sqrt{11e^2} \otimes e_4$	{123679, 134569}
953:74	$0, 0, 0, 0, -\frac{8}{29}\sqrt{2e^{12}}, \frac{2}{29}\sqrt{14e^{13}}, \frac{2}{29}\sqrt{22e^{15}},$ $\frac{2}{29}\sqrt{34e^{16}} + \frac{2}{29}\sqrt{46e^{34}}, \frac{4}{29}\sqrt{15e^{25}} + \frac{2}{29}\sqrt{42e^{36}}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102e^2} \otimes e_8$	{123469, 145789, 2345, 4678, 123469, 145789, 2345, 4678}
953:74	$0, 0, 0, 0, \frac{8}{29}\sqrt{2e^{12}}, \frac{2}{29}\sqrt{14e^{13}}, \frac{2}{29}\sqrt{22e^{15}},$ $\frac{2}{29}\sqrt{34e^{16}} + \frac{2}{29}\sqrt{46e^{34}}, \frac{4}{29}\sqrt{15e^{25}} + \frac{2}{29}\sqrt{42e^{36}}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102e^2} \otimes e_8$	{123469, 145789, 2345, 4678, 123469, 145789, 2345, 4678}
953:74	$0, 0, 0, 0, -\frac{5}{428}\sqrt{898e^{12}}, \frac{5}{428}\sqrt{1246e^{13}}, \frac{5}{107}\sqrt{101e^{15}},$ $\frac{5}{214}\sqrt{330e^{16}} + \frac{65}{214}\sqrt{2e^{34}}, \frac{5}{428}\sqrt{570e^{25}} + \frac{5}{428}\sqrt{222e^{36}}$	$(\frac{45}{428}, -\frac{25}{214}, -\frac{25}{214}, \frac{45}{214}, -\frac{5}{428}, -\frac{5}{428}, \frac{10}{107}, \frac{10}{107}, -\frac{55}{428})$ $+ \frac{15}{107}\sqrt{11e^4} \otimes e_7$	{123678, 127, 235789, 25679, 123678, 127, 235789, 25679}
953:74	$0, 0, 0, 0, \frac{5}{214}\sqrt{330e^{16}} + \frac{65}{214}\sqrt{2e^{34}}, \frac{5}{428}\sqrt{570e^{25}} + \frac{5}{428}\sqrt{222e^{36}}$	$(\frac{45}{428}, -\frac{25}{214}, -\frac{25}{214}, \frac{45}{214}, -\frac{5}{428}, -\frac{5}{428}, \frac{10}{107}, \frac{10}{107}, -\frac{55}{428})$ $+ \frac{15}{107}\sqrt{11e^4} \otimes e_7$	{123678, 127, 235789, 25679, 123678, 127, 235789, 25679}
953:74	$0, 0, 0, 0, -\frac{13}{440}\sqrt{346e^{12}}, \frac{13}{440}\sqrt{1006e^{13}}, \frac{13}{220}\sqrt{82e^{15}},$ $\frac{26}{55}e^{16} + \frac{13}{220}\sqrt{146e^{34}}, \frac{39}{440}\sqrt{6e^{25}} + \frac{13}{440}\sqrt{714e^{36}}$	$(-\frac{91}{440}, \frac{39}{110}, \frac{39}{110}, -\frac{91}{220}, \frac{13}{88}, \frac{13}{88}, -\frac{13}{220}, -\frac{13}{220}, \frac{221}{440})$ $+ \frac{26}{55}\sqrt{6e^3} \otimes e_4$	{1245679, 1469, 247, 45, 1245679, 1469, 247, 45}
953:74	$0, 0, 0, 0, \frac{13}{440}\sqrt{346e^{12}}, \frac{13}{440}\sqrt{1006e^{13}}, \frac{13}{220}\sqrt{82e^{15}},$ $\frac{26}{55}e^{16} + \frac{13}{220}\sqrt{146e^{34}}, \frac{39}{440}\sqrt{6e^{25}} + \frac{13}{440}\sqrt{714e^{36}}$	$(-\frac{91}{440}, \frac{39}{110}, \frac{39}{110}, -\frac{91}{220}, \frac{13}{88}, \frac{13}{88}, -\frac{13}{220}, -\frac{13}{220}, \frac{221}{440})$ $+ \frac{26}{55}\sqrt{6e^3} \otimes e_4$	{1245679, 1469, 247, 45, 1245679, 1469, 247, 45}
953:74	$0, 0, 0, 0, -\frac{8}{29}\sqrt{2e^{12}}, \frac{2}{29}\sqrt{14e^{13}}, \frac{8}{29}\sqrt{5e^{15}},$ $\frac{4}{29}\sqrt{17e^{16}} + \frac{2}{29}\sqrt{46e^{34}}, \frac{2}{29}\sqrt{42e^{25}} + \frac{4}{29}\sqrt{15e^{36}}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102e^3} \otimes e_7$	{127, 13568, 25679, 389, 127, 13568, 25679, 389}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:74	$0, 0, 0, 0, \frac{8}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{14}e^{13}, \frac{8}{29}\sqrt{5}e^{15},$ $\frac{4}{29}\sqrt{17}e^{16} + \frac{2}{29}\sqrt{46}e^{34}, \frac{2}{29}\sqrt{42}e^{25} + \frac{4}{29}\sqrt{15}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^3 \otimes e_7$	{127, 13568, 25679, 389, 127, 13568, 25679, 389}
953:78	$0, 0, 0, 0, \frac{118}{3949}\sqrt{365}e^{12}, \frac{295}{3949}\sqrt{66}e^{13}, \frac{118}{3949}\sqrt{582}e^{25},$ $\frac{118}{3949}\sqrt{355}e^{16} + \frac{59}{3949}\sqrt{3886}e^{34}, \frac{59}{3949}\sqrt{914}e^{15} + \frac{59}{3949}\sqrt{690}e^{36}$	$(\frac{1003}{3949}, -\frac{1239}{3949}, -\frac{118}{3949}, \frac{2006}{3949}, -\frac{236}{3949}, \frac{885}{3949}, -\frac{1475}{3949}, \frac{1888}{3949}, \frac{767}{3949})$ $+ \frac{354}{3949}\sqrt{183}e^4 \otimes e_7$	{1236789, 1279}
953:78	$0, 0, 0, 0, \frac{1}{23}\sqrt{187}e^{12}, \frac{1}{23}\sqrt{110}e^{13}, \frac{1}{23}\sqrt{165}e^{25},$ $\frac{1}{23}\sqrt{55}e^{16} + \frac{1}{23}\sqrt{209}e^{34}, \frac{1}{23}\sqrt{11}e^{15} + \frac{1}{23}\sqrt{66}e^{36}$	$(-\frac{3}{23}, \frac{7}{23}, \frac{2}{23}, -\frac{6}{23}, \frac{4}{23}, -\frac{23}{23}, \frac{11}{23}, -\frac{4}{23}, \frac{1}{23})$ $+ \frac{1}{23}\sqrt{429}e^2 \otimes e_8$	{1234679, 468}
953:78	$0, 0, 0, 0, \frac{124}{3559}\sqrt{182}e^{12}, \frac{62}{3559}\sqrt{1630}e^{13}, \frac{93}{3559}\sqrt{210}e^{25},$ $\frac{31}{3559}\sqrt{2806}e^{16} + \frac{155}{3559}\sqrt{178}e^{34}, \frac{62}{3559}\sqrt{1270}e^{15} + \frac{31}{3559}\sqrt{4614}e^{36}$	$(-\frac{372}{3559}, \frac{806}{3559}, \frac{217}{3559}, -\frac{744}{3559}, \frac{434}{3559}, -\frac{155}{3559}, \frac{1240}{3559}, -\frac{527}{3559}, \frac{62}{3559})$ $+ \frac{248}{3559}\sqrt{102}e^3 \otimes e_4$	{124569, 457}
953:78	$0, 0, 0, 0, \frac{28}{247}\sqrt{7}e^{12}, \frac{14}{247}\sqrt{78}e^{13}, \frac{7}{247}\sqrt{258}e^{25},$ $\frac{7}{247}\sqrt{86}e^{16} + \frac{35}{247}\sqrt{2}e^{34}, \frac{14}{247}\sqrt{70}e^{15} + \frac{7}{247}\sqrt{246}e^{36}$	$(\frac{28}{247}, -\frac{42}{247}, -\frac{7}{247}, \frac{56}{247}, -\frac{14}{247}, \frac{21}{247}, -\frac{56}{247}, \frac{49}{247}, \frac{14}{247})$ $+ \frac{84}{247}\sqrt{3}e^3 \otimes e_7$	{1234589, 457}
953:78	$0, 0, 0, 0, \frac{184}{3541}\sqrt{55}e^{12}, \frac{23}{3541}\sqrt{5018}e^{13}, \frac{414}{3541}\sqrt{6}e^{25},$ $\frac{92}{3541}\sqrt{314}e^{16} + \frac{23}{3541}\sqrt{5702}e^{34}, \frac{115}{3541}\sqrt{254}e^{15} + \frac{69}{3541}\sqrt{2}e^{36}$	$(\frac{345}{3541}, -\frac{529}{3541}, -\frac{92}{3541}, \frac{690}{3541}, -\frac{184}{3541}, \frac{253}{3541}, -\frac{713}{3541}, \frac{598}{3541}, \frac{161}{3541})$ $+ \frac{46}{3541}\sqrt{1641}e^4 \otimes e_9$	{235789, 25679}
953:197	$0, 0, 0, 0, \frac{1}{239}\sqrt{6730}e^{12}, \frac{1}{717}\sqrt{321694}e^{34}, \frac{2}{239}\sqrt{9422}e^{15},$ $\frac{1}{717}\sqrt{52494}e^{25} + \frac{1}{239}\sqrt{6730}e^{36}$	$(-\frac{54}{239}, \frac{43}{239}, -\frac{149}{717}, \frac{2}{3}, -\frac{11}{239}, \frac{329}{717}, -\frac{65}{239}, \frac{32}{239}, \frac{60}{239})$ $+ \frac{2}{717}\sqrt{195843}e^4 \otimes e_7$	{12367, 127, 13459, 14569, 235678, 2578, 3489, 4689}
953:197	$0, 0, 0, 0, \frac{14}{227}e^{12}, \frac{14}{227}e^{34}, \frac{2}{681}\sqrt{861}e^{15}, \frac{1}{681}\sqrt{798}e^{25},$ $\frac{1}{681}\sqrt{3178}e^{36}$	$(\frac{2}{227}, \frac{2}{227}, \frac{25}{681}, -\frac{17}{227}, \frac{4}{227}, -\frac{26}{681}, \frac{6}{681}, \frac{6}{681}, -\frac{1}{681})$ $+ \frac{1}{681}\sqrt{4242}e^1 \otimes e_9 + \frac{1}{681}\sqrt{4242}e^3 \otimes e_7$	{127, 1356, 2456789, 3489}
953:197	$0, 0, 0, 0, \frac{4}{699}\sqrt{2343}e^{12}, \frac{4}{699}\sqrt{2343}e^{34}, \frac{2}{233}\sqrt{781}e^{15}, \frac{2}{233}\sqrt{781}e^{25},$ $\frac{2}{699}\sqrt{16543}e^{36}$	$(\frac{55}{233}, -\frac{46}{233}, \frac{31}{699}, -\frac{13}{233}, \frac{9}{233}, -\frac{8}{699}, \frac{64}{233}, -\frac{37}{233}, \frac{23}{699})$ $+ \frac{2}{699}\sqrt{21513}e^1 \otimes e_9 + \frac{2}{699}\sqrt{21513}e^3 \otimes e_8$	{1278, 158, 234579, 349}
953:197	$0, 0, 0, 0, \frac{1}{173}\sqrt{5467}e^{12}, \frac{1}{173}\sqrt{3905}e^{34}, \frac{1}{173}\sqrt{4686}e^{15}, \frac{1}{173}\sqrt{2343}e^{25},$ $\frac{1}{173}\sqrt{5467}e^{36}$	$(\frac{44}{173}, -\frac{30}{173}, -\frac{41}{173}, \frac{55}{173}, \frac{14}{173}, \frac{14}{173}, \frac{58}{173}, -\frac{16}{173}, -\frac{27}{173})$ $+ \frac{1}{173}\sqrt{12851}e^1 \otimes e_9 - \frac{1}{173}\sqrt{8165}e^4 \otimes e_8$	{123678, 1278, 13568, 158, 234579, 245679, 349, 469}
953:197	$0, 0, 0, 0, \frac{1}{173}\sqrt{5467}e^{12}, \frac{1}{173}\sqrt{3905}e^{34}, \frac{1}{173}\sqrt{4686}e^{15}, \frac{1}{173}\sqrt{2343}e^{25},$ $\frac{1}{173}\sqrt{5467}e^{36}$	$(\frac{44}{173}, -\frac{30}{173}, -\frac{41}{173}, \frac{55}{173}, \frac{14}{173}, \frac{14}{173}, \frac{58}{173}, -\frac{16}{173}, -\frac{27}{173})$ $+ \frac{1}{173}\sqrt{12851}e^1 \otimes e_9 + \frac{1}{173}\sqrt{8165}e^4 \otimes e_8$	{123678, 1278, 13568, 158, 234579, 245679, 349, 469}
953:197	$0, 0, 0, 0, \frac{1}{247}\sqrt{4570}e^{12}, \frac{1}{741}\sqrt{225758}e^{34}, \frac{1}{247}\sqrt{26506}e^{15},$ $\frac{2}{741}\sqrt{9597}e^{25} + \frac{1}{741}\sqrt{225758}e^{36}$	$(-\frac{3}{13}, \frac{44}{247}, \frac{1}{3}, -\frac{112}{741}, -\frac{1}{247}, \frac{45}{247}, -\frac{70}{247}, \frac{31}{247}, \frac{382}{741})$ $+ \frac{2}{741}\sqrt{138471}e^3 \otimes e_7$	{124679, 127, 13459, 1356, 2456789, 2578, 3489, 368}
953:197	$0, 0, 0, 0, \frac{2}{177}\sqrt{1338}e^{12}, \frac{2}{177}\sqrt{1338}e^{34}, \frac{1}{59}\sqrt{446}e^{15}, \frac{1}{59}\sqrt{446}e^{25},$ $\frac{1}{177}\sqrt{26314}e^{36}$	$(\frac{5}{59}, \frac{5}{59}, \frac{106}{177}, -\frac{39}{59}, \frac{10}{59}, -\frac{11}{177}, \frac{15}{59}, \frac{15}{59}, \frac{95}{177})$ $+ \frac{1}{177}\sqrt{62886}e^3 \otimes e_4$	{123678, 1246789, 13568, 145689, 36, 469}
953:197	$0, 0, 0, 0, \frac{12}{289}\sqrt{55}e^{12}, \frac{24}{289}\sqrt{11}e^{34}, \frac{4}{289}\sqrt{858}e^{15}, \frac{2}{289}\sqrt{759}e^{25},$ $\frac{12}{289}\sqrt{55}e^{36}$	$(\frac{16}{289}, -\frac{2}{289}, -\frac{73}{289}, \frac{96}{289}, \frac{14}{289}, \frac{23}{289}, \frac{30}{289}, -\frac{50}{289})$ $+ \frac{2}{289}\sqrt{3597}e^4 \otimes e_7 + \frac{2}{289}\sqrt{4785}e^1 \otimes e_9$	{12367, 127, 3489, 4689}
953:197	$0, 0, 0, 0, \frac{1}{741}\sqrt{225758}e^{12}, \frac{1}{247}\sqrt{4570}e^{34}, \frac{1}{247}\sqrt{26506}e^{15},$ $\frac{2}{741}\sqrt{9597}e^{25} + \frac{1}{741}\sqrt{225758}e^{36}$	$(\frac{233}{741}, -\frac{70}{741}, -\frac{157}{741}, \frac{30}{247}, \frac{163}{741}, -\frac{67}{741}, \frac{132}{247}, \frac{31}{247}, -\frac{224}{741})$ $+ \frac{2}{741}\sqrt{138471}e^1 \otimes e_9$	{12367, 127, 1356, 15, 2345789, 2456789, 3489, 4689}
953:197	$0, 0, 0, 0, \frac{1}{907}\sqrt{20566}e^{12}, \frac{1}{2721}\sqrt{1434874}e^{34}, \frac{8}{2721}\sqrt{11865}e^{15},$ $\frac{8}{907}\sqrt{791}e^{25} + \frac{8}{907}\sqrt{1582}e^{36}$	$(-\frac{82}{907}, -\frac{18}{907}, \frac{245}{2721}, \frac{437}{2721}, -\frac{100}{907}, \frac{682}{2721}, -\frac{182}{907}, -\frac{118}{907}, \frac{309}{907})$ $+ \frac{1}{2721}\sqrt{1570926}e^4 \otimes e_8 + \frac{8}{907}\sqrt{26894}e^3 \otimes e_7$	{1278, 13568, 245679, 349}
953:197	$0, 0, 0, 0, \frac{1}{1093}\sqrt{1510158}e^{12}, \frac{1}{1093}\sqrt{30570}e^{34}, \frac{1}{1093}\sqrt{177306}e^{15},$ $\frac{2}{1093}\sqrt{7133}e^{25} + \frac{1}{3279}\sqrt{2227534}e^{36}$	$(\frac{233}{1093}, -\frac{70}{1093}, \frac{233}{3279}, -\frac{262}{1093}, \frac{163}{1093}, -\frac{553}{3279}, \frac{396}{1093}, \frac{93}{1093}, -\frac{320}{3279})$ $+ \frac{2}{1093}\sqrt{102919}e^1 \otimes e_9 + \frac{8}{3279}\sqrt{33627}e^3 \otimes e_4$	{12367, 1356, 2456789, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:198	$0, 0, 0, 0, \frac{3}{403}\sqrt{442e^{12}}, \frac{1}{403}\sqrt{2782e^{34}}, \frac{3}{403}\sqrt{182e^{15}},$ $\frac{1}{403}\sqrt{4186e^{13}} + \frac{2}{403}\sqrt{858e^{25}}, \frac{2}{403}\sqrt{1222e^{36}}$	$(0, \frac{1}{31}, \frac{2}{31}, -\frac{4}{31}, \frac{1}{31}, -\frac{2}{31}, \frac{1}{31}, \frac{2}{31}, 0)$ $+ \frac{1}{403}\sqrt{2730e^3} \otimes e_7 + \frac{1}{403}\sqrt{78e^2} \otimes e_9$	{134589, 349}
953:198	$0, 0, 0, 0, \frac{4}{239}\sqrt{546e^{12}}, \frac{4}{239}\sqrt{390e^{34}}, \frac{24}{239}\sqrt{13e^{15}},$ $\frac{8}{239}\sqrt{57e^{13}} + \frac{12}{239}\sqrt{26e^{25}}, \frac{4}{239}\sqrt{546e^{36}}$	$(\frac{52}{239}, -\frac{32}{239}, -\frac{64}{239}, \frac{84}{239}, \frac{20}{239}, \frac{20}{239}, \frac{72}{239}, -\frac{12}{239}, -\frac{44}{239})$ $+ \frac{28}{239}\sqrt{30e^1} \otimes e_9 + \frac{4}{239}\sqrt{1002e^4} \otimes e_8$	{1278, 158, 245679, 469}
953:198	$0, 0, 0, 0, \frac{4}{239}\sqrt{546e^{12}}, \frac{4}{239}\sqrt{390e^{34}}, \frac{24}{239}\sqrt{13e^{15}},$ $\frac{8}{239}\sqrt{57e^{13}} + \frac{12}{239}\sqrt{26e^{25}}, \frac{4}{239}\sqrt{546e^{36}}$	$(\frac{52}{239}, -\frac{32}{239}, -\frac{64}{239}, \frac{84}{239}, \frac{20}{239}, \frac{20}{239}, \frac{72}{239}, -\frac{12}{239}, -\frac{44}{239})$ $+ \frac{28}{239}\sqrt{30e^1} \otimes e_9 - \frac{4}{239}\sqrt{1002e^4} \otimes e_8$	{1278, 158, 245679, 469}
953:198	$0, 0, 0, 0, \frac{98}{8563}\sqrt{699e^{12}}, \frac{294}{8563}\sqrt{7e^{34}}, \frac{882}{8563}\sqrt{10e^{15}},$ $\frac{98}{8563}\sqrt{653e^{13}} + \frac{294}{8563}\sqrt{37e^{25}}, \frac{49}{8563}\sqrt{4838e^{36}}$	$(\frac{1176}{8563}, \frac{196}{8563}, \frac{392}{8563}, -\frac{2009}{8563}, \frac{1372}{8563}, -\frac{1617}{8563}, \frac{2548}{8563}, \frac{1568}{8563}, -\frac{1225}{8563})$ $+ \frac{294}{8563}\sqrt{254e^1} \otimes e_9 + \frac{49}{8563}\sqrt{6126e^3} \otimes e_4$	{235789, 389}
953:198	$0, 0, 0, 0, \frac{12}{1087}\sqrt{670e^{12}}, \frac{8}{1087}\sqrt{7705e^{34}}, \frac{6}{1087}\sqrt{14405e^{15}},$ $\frac{2}{1087}\sqrt{5695e^{13}} + \frac{2}{1087}\sqrt{19095e^{25}}, \frac{6}{1087}\sqrt{7705e^{36}}$	$(-\frac{243}{1087}, \frac{184}{1087}, \frac{368}{1087}, -\frac{169}{1087}, -\frac{59}{1087}, \frac{199}{1087}, -\frac{302}{1087}, \frac{125}{1087}, \frac{567}{1087})$ $+ \frac{4}{1087}\sqrt{74370e^3} \otimes e_7$	{124679, 127, 2456789, 2578}
953:198	$0, 0, 0, 0, \frac{2}{1075}\sqrt{78578e^{12}}, \frac{2}{1075}\sqrt{192166e^{34}}, \frac{8}{1075}\sqrt{11670e^{15}},$ $\frac{2}{1075}\sqrt{158323e^{13}} + \frac{2}{1075}\sqrt{16338e^{25}}, \frac{2}{1075}\sqrt{78578e^{36}}$	$(-\frac{76}{1075}, -\frac{9}{215}, -\frac{18}{215}, \frac{581}{1075}, -\frac{121}{1075}, \frac{491}{1075}, -\frac{197}{1075}, -\frac{166}{1075}, \frac{401}{1075})$ $+ \frac{4}{1075}\sqrt{85191e^4} \otimes e_7$	{123678, 134589, 23567, 349}
953:198	$0, 0, 0, 0, \frac{3}{37}\sqrt{10e^{12}}, \frac{3}{37}\sqrt{6e^{34}}, \frac{1}{37}\sqrt{6e^{15}},$ $\frac{3}{37}\sqrt{10e^{13}} + \frac{3}{37}\sqrt{102e^{25}}, \frac{3}{37}\sqrt{10e^{36}}$	$(\frac{4}{37}, -\frac{2}{37}, -\frac{4}{37}, \frac{3}{37}, \frac{2}{37}, -\frac{1}{37}, \frac{6}{37}, 0, -\frac{5}{37})$ $+ \frac{1}{37}\sqrt{42e^4} \otimes e_8 + \frac{5}{37}\sqrt{6e^2} \otimes e_9$	{123678, 349}
953:198	$0, 0, 0, 0, \frac{2}{187}\sqrt{1115e^{12}}, \frac{2}{187}\sqrt{505e^{34}}, \frac{10}{187}\sqrt{6e^{15}},$ $\frac{2}{187}\sqrt{1165e^{13}} + \frac{2}{187}\sqrt{1065e^{25}}, \frac{10}{187}\sqrt{4670e^{36}}$	$(\frac{20}{187}, 0, 0, -\frac{25}{187}, \frac{20}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187}, -\frac{25}{187})$ $+ \frac{2}{187}\sqrt{1830e^2} \otimes e_9 + \frac{3}{187}\sqrt{70e^3} \otimes e_4$	{123678, 23567}
953:198	$0, 0, 0, 0, \frac{8}{1087}\sqrt{7705e^{12}}, \frac{12}{1087}\sqrt{670e^{34}}, \frac{6}{1087}\sqrt{14405e^{15}},$ $\frac{2}{1087}\sqrt{5695e^{13}} + \frac{2}{1087}\sqrt{19095e^{25}}, \frac{6}{1087}\sqrt{7705e^{36}}$	$(\frac{349}{1087}, -\frac{112}{1087}, -\frac{224}{1087}, \frac{127}{1087}, \frac{237}{1087}, -\frac{97}{1087}, \frac{586}{1087}, \frac{125}{1087}, -\frac{321}{1087})$ $+ \frac{4}{1087}\sqrt{74370e^1} \otimes e_9$	{127, 15, 2456789, 4689}
953:198	$0, 0, 0, 0, \frac{39}{2725}\sqrt{462e^{12}}, \frac{39}{2725}\sqrt{434e^{34}}, \frac{26}{545}\sqrt{66e^{15}},$ $\frac{39}{2725}\sqrt{322e^{13}} + \frac{26}{2725}\sqrt{138e^{25}}, \frac{39}{2725}\sqrt{462e^{36}}$	$(\frac{286}{2725}, -\frac{52}{545}, -\frac{104}{545}, \frac{819}{2725}, \frac{26}{2725}, \frac{299}{2725}, \frac{312}{2725}, -\frac{234}{2725}, -\frac{221}{2725})$ $+ \frac{13}{2725}\sqrt{6774e^4} \otimes e_7 + \frac{13}{2725}\sqrt{7530e^1} \otimes e_9$	{127, 4689}
953:198	$0, 0, 0, 0, \frac{60}{997}\sqrt{e^{12}}, \frac{60}{997}\sqrt{e^{34}}, \frac{2}{997}\sqrt{1785e^{15}},$ $\frac{2}{997}\sqrt{65e^{13}} + \frac{2}{997}\sqrt{435e^{25}}, \frac{4}{997}\sqrt{410e^{36}}$	$(\frac{3}{997}, \frac{16}{997}, \frac{32}{997}, -\frac{71}{997}, \frac{19}{997}, -\frac{39}{997}, \frac{22}{997}, \frac{35}{997}, -\frac{7}{997})$ $+ \frac{4}{997}\sqrt{555e^1} \otimes e_9 + \frac{4}{997}\sqrt{555e^3} \otimes e_7$	{1356, 3489}
953:198	$0, 0, 0, 0, \frac{2}{241}\sqrt{1626e^{12}}, \frac{2}{241}\sqrt{1626e^{34}}, \frac{3}{241}\sqrt{542e^{15}},$ $\frac{2}{241}\sqrt{10298e^{13}} + \frac{3}{241}\sqrt{542e^{25}}, \frac{1}{241}\sqrt{29810e^{36}}$	$(-\frac{15}{241}, \frac{61}{241}, \frac{122}{241}, -\frac{149}{241}, \frac{46}{241}, -\frac{27}{241}, \frac{31}{241}, \frac{107}{241}, \frac{95}{241})$ $+ \frac{1}{241}\sqrt{108942e^3} \otimes e_4$	{124578, 148, 247, 45}
953:198	$0, 0, 0, 0, \frac{2}{83}\sqrt{35e^{12}}, \frac{10}{83}\sqrt{e^{34}}, \frac{2}{83}\sqrt{15e^{15}},$ $\frac{2}{83}\sqrt{43e^{13}} + \frac{2}{83}\sqrt{30e^{25}}, \frac{2}{83}\sqrt{35e^{36}}$	$(\frac{4}{83}, -\frac{3}{83}, -\frac{6}{83}, \frac{7}{83}, \frac{1}{83}, \frac{1}{83}, \frac{5}{83}, -\frac{2}{83}, -\frac{5}{83})$ $- \frac{2}{83}\sqrt{21e^4} \otimes e_7 + \frac{2}{83}\sqrt{51e^2} \otimes e_9$	{123678, 134589, 23567, 349}
953:198	$0, 0, 0, 0, \frac{2}{83}\sqrt{35e^{12}}, \frac{10}{83}\sqrt{e^{34}}, \frac{2}{83}\sqrt{15e^{15}},$ $\frac{2}{83}\sqrt{43e^{13}} + \frac{2}{83}\sqrt{30e^{25}}, \frac{2}{83}\sqrt{35e^{36}}$	$(\frac{4}{83}, -\frac{3}{83}, -\frac{6}{83}, \frac{7}{83}, \frac{1}{83}, \frac{1}{83}, \frac{5}{83}, -\frac{2}{83}, -\frac{5}{83})$ $+ \frac{2}{83}\sqrt{21e^4} \otimes e_7 + \frac{2}{83}\sqrt{51e^2} \otimes e_9$	{123678, 134589, 23567, 349}
953:198	$0, 0, 0, 0, \frac{2}{157}\sqrt{902e^{12}}, \frac{2}{157}\sqrt{418e^{34}}, \frac{4}{157}\sqrt{33e^{15}},$ $\frac{2}{157}\sqrt{979e^{13}} + \frac{2}{157}\sqrt{858e^{25}}, \frac{2}{157}\sqrt{902e^{36}}$	$(\frac{20}{157}, -\frac{3}{157}, -\frac{6}{157}, -\frac{13}{157}, \frac{17}{157}, -\frac{19}{157}, \frac{37}{157}, \frac{14}{157}, -\frac{25}{157})$ $+ \frac{44}{157}\sqrt{3e^2} \otimes e_9$	{123678, 134589, 23567, 349}
953:198	$0, 0, 0, 0, \frac{276}{3797}\sqrt{e^{12}}, \frac{92}{3797}\sqrt{287e^{34}}, \frac{46}{3797}\sqrt{555e^{15}},$ $\frac{46}{3797}\sqrt{353e^{13}} + \frac{138}{3797}\sqrt{37e^{25}}, \frac{138}{3797}\sqrt{74e^{36}}$	$(-\frac{483}{3797}, \frac{92}{3797}, \frac{184}{3797}, \frac{759}{3797}, -\frac{391}{3797}, \frac{943}{3797}, -\frac{874}{3797}, -\frac{299}{3797}, \frac{1127}{3797})$ $+ \frac{138}{3797}\sqrt{210e^3} \otimes e_7 + \frac{46}{3797}\sqrt{1446e^4} \otimes e_8$	{1278, 245679}
953:199	$0, 0, 0, 0, \frac{1}{17}\sqrt{33e^{12}}, \frac{3}{17}\sqrt{2e^{34}}, \frac{1}{17}\sqrt{3e^{15}}, \frac{3}{17}\sqrt{5e^{25}},$ $\frac{1}{17}\sqrt{39e^{13}} + \frac{1}{17}\sqrt{33e^{46}}$	$(-\frac{4}{17}, \frac{5}{17}, \frac{3}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{1}{17})$ $+ \frac{1}{17}\sqrt{111e^2} \otimes e_9 + \frac{1}{17}\sqrt{66e^3} \otimes e_7$	{24567, 257, 349, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:199	$0, 0, 0, 0, \frac{1}{17}\sqrt{33}e^{12}, \frac{3}{17}\sqrt{2}e^{34}, \frac{1}{17}\sqrt{3}e^{15}, \frac{3}{17}\sqrt{5}e^{25},$ $\frac{1}{17}\sqrt{39}e^{13} + \frac{1}{17}\sqrt{33}e^{46}$	$(-\frac{4}{17}, \frac{5}{17}, \frac{3}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{1}{17})$ $+\frac{1}{17}\sqrt{111}e^2 \otimes e_9 - \frac{1}{17}\sqrt{66}e^3 \otimes e_7$	{24567, 257, 349, 369}
953:199	$0, 0, 0, 0, \frac{13}{1951}\sqrt{1174}e^{12}, \frac{13}{1951}\sqrt{2282}e^{34}, \frac{208}{1951}\sqrt{11}e^{15},$ $\frac{104}{1951}\sqrt{15}e^{25}, \frac{104}{1951}\sqrt{46}e^{13} + \frac{104}{1951}\sqrt{39}e^{46}$	$(-\frac{234}{1951}, \frac{182}{1951}, \frac{299}{1951}, -\frac{117}{1951}, -\frac{52}{1951}, \frac{182}{1951}, -\frac{286}{1951}, \frac{130}{1951}, \frac{65}{1951})$ $+\frac{13}{1951}\sqrt{3966}e^4 \otimes e_7 + \frac{13}{1951}\sqrt{642}e^3 \otimes e_8$	{127, 1456}
953:199	$0, 0, 0, 0, \frac{2}{1087}\sqrt{34087}e^{12}, \frac{4}{1087}\sqrt{21065}e^{34}, \frac{4}{1087}\sqrt{22597}e^{15},$ $\frac{42}{1087}\sqrt{383}e^{25}, \frac{2}{1087}\sqrt{163541}e^{13} + \frac{2}{1087}\sqrt{34087}e^{46}$	$(\frac{58}{1087}, -\frac{192}{1087}, \frac{440}{1087}, \frac{29}{1087}, -\frac{134}{1087}, \frac{469}{1087}, -\frac{76}{1087}, -\frac{326}{1087}, \frac{498}{1087})$ $+\frac{6}{1087}\sqrt{39449}e^3 \otimes e_8$	{123457, 123567, 134, 136}
953:199	$0, 0, 0, 0, \frac{2}{73}\sqrt{385}e^{12}, \frac{4}{73}\sqrt{5}e^{34}, \frac{2}{73}\sqrt{205}e^{15}, \frac{2}{73}\sqrt{555}e^{25},$ $\frac{2}{73}\sqrt{305}e^{13} + \frac{2}{73}\sqrt{385}e^{46}$	$(-\frac{12}{73}, \frac{26}{73}, -\frac{2}{73}, -\frac{6}{73}, \frac{14}{73}, -\frac{8}{73}, \frac{2}{73}, \frac{40}{73}, -\frac{14}{73})$ $+\frac{18}{73}\sqrt{15}e^2 \otimes e_9$	{123468, 1238, 145789, 156789}
953:199	$0, 0, 0, 0, \frac{1}{143}\sqrt{786}e^{12}, \frac{2}{143}\sqrt{2751}e^{34}, \frac{2}{143}\sqrt{2882}e^{15}, \frac{2}{143}\sqrt{393}e^{25},$ $\frac{1}{143}\sqrt{4454}e^{13} + \frac{1}{143}\sqrt{786}e^{46}$	$(-\frac{38}{143}, \frac{29}{143}, \frac{84}{143}, -\frac{19}{143}, -\frac{9}{143}, \frac{5}{11}, -\frac{47}{143}, \frac{20}{143}, \frac{46}{143})$ $+\frac{3}{143}\sqrt{3406}e^3 \otimes e_7$	{245678, 2578, 3489, 3689}
953:199	$0, 0, 0, 0, \frac{3}{95}\sqrt{10}e^{12}, \frac{6}{95}\sqrt{2}e^{34}, \frac{1}{95}\sqrt{246}e^{15}, \frac{1}{95}\sqrt{462}e^{25},$ $\frac{3}{95}\sqrt{42}e^{13} + \frac{3}{95}\sqrt{10}e^{46}$	$(-\frac{2}{19}, \frac{8}{95}, \frac{12}{95}, -\frac{1}{19}, -\frac{2}{95}, \frac{7}{95}, -\frac{12}{95}, \frac{6}{95}, \frac{2}{95})$ $+\frac{1}{95}\sqrt{546}e^2 \otimes e_9 + \frac{2}{95}\sqrt{123}e^3 \otimes e_8$	{3479, 3679}
953:199	$0, 0, 0, 0, \frac{11}{463}\sqrt{86}e^{12}, \frac{11}{463}\sqrt{354}e^{34}, \frac{88}{463}\sqrt{2}e^{15}, \frac{22}{463}\sqrt{42}e^{25},$ $\frac{22}{463}\sqrt{34}e^{13} + \frac{176}{463}e^{46}$	$(\frac{22}{463}, -\frac{66}{463}, \frac{99}{463}, \frac{11}{463}, -\frac{44}{463}, \frac{110}{463}, -\frac{22}{463}, -\frac{110}{463}, \frac{121}{463})$ $+\frac{11}{463}\sqrt{510}e^4 \otimes e_8 + \frac{77}{463}\sqrt{6}e^3 \otimes e_7$	{1278, 135689}
953:199	$0, 0, 0, 0, \frac{10}{1159}\sqrt{649}e^{12}, \frac{8}{1159}\sqrt{2242}e^{34}, \frac{4}{1159}\sqrt{9794}e^{15},$ $\frac{4}{1159}\sqrt{2478}e^{25}, \frac{2}{1159}\sqrt{39235}e^{13} + \frac{8}{1159}\sqrt{2242}e^{46}$	$(-\frac{6}{61}, \frac{53}{1159}, \frac{217}{1159}, -\frac{3}{61}, -\frac{1}{19}, \frac{160}{1159}, -\frac{175}{1159}, -\frac{8}{1159}, \frac{103}{1159})$ $+\frac{6}{1159}\sqrt{6549}e^4 \otimes e_7$	{123679, 127, 13459, 1456}
953:199	$0, 0, 0, 0, \frac{1}{599}\sqrt{53390}e^{12}, \frac{2}{599}\sqrt{36530}e^{34}, \frac{8}{599}\sqrt{281}e^{15}, \frac{3}{599}\sqrt{11802}e^{25},$ $\frac{1}{599}\sqrt{101722}e^{13} + \frac{2}{599}\sqrt{36530}e^{46}$	$(\frac{158}{599}, -\frac{180}{599}, \frac{25}{599}, \frac{79}{599}, -\frac{22}{599}, \frac{104}{599}, \frac{136}{599}, -\frac{202}{599}, \frac{183}{599})$ $+\frac{3}{599}\sqrt{30910}e^4 \otimes e_8$	{1236789, 1278, 135689, 158}
953:199	$0, 0, 0, 0, \frac{2}{101}\sqrt{97}e^{12}, \frac{4}{101}\sqrt{43}e^{34}, \frac{2}{101}\sqrt{179}e^{15}, \frac{2}{101}\sqrt{21}e^{25},$ $\frac{10}{101}\sqrt{7}e^{13} + \frac{2}{101}\sqrt{193}e^{46}$	$(-\frac{12}{101}, \frac{10}{101}, \frac{14}{101}, -\frac{6}{101}, -\frac{2}{101}, \frac{8}{101}, -\frac{14}{101}, \frac{8}{101}, \frac{2}{101})$ $+\frac{24}{101}\sqrt{2}e^4 \otimes e_7 + \frac{6}{101}\sqrt{7}e^2 \otimes e_9$	{127, 13459}
953:199	$0, 0, 0, 0, \frac{1}{281}\sqrt{221}e^{12}, \frac{2}{281}\sqrt{58}e^{34}, \frac{1}{281}\sqrt{73}e^{15}, \frac{1}{281}\sqrt{399}e^{25},$ $\frac{1}{281}\sqrt{55}e^{13} + \frac{1}{281}\sqrt{393}e^{46}$	$(\frac{8}{281}, -\frac{3}{281}, -\frac{13}{281}, \frac{4}{281}, \frac{5}{281}, -\frac{9}{281}, \frac{13}{281}, \frac{2}{281}, -\frac{5}{281})$ $+\frac{1}{281}\sqrt{483}e^2 \otimes e_9 + \frac{2}{281}\sqrt{129}e^4 \otimes e_8$	{128, 1356789}
953:199	$0, 0, 0, 0, \frac{6}{743}\sqrt{537}e^{12}, \frac{48}{743}\sqrt{15}e^{34}, \frac{12}{743}\sqrt{282}e^{15}, \frac{12}{743}\sqrt{42}e^{25},$ $\frac{6}{743}\sqrt{987}e^{13} + \frac{48}{743}\sqrt{15}e^{46}$	$(-\frac{18}{743}, -\frac{27}{743}, \frac{105}{743}, -\frac{9}{743}, -\frac{45}{743}, \frac{96}{743}, -\frac{63}{743}, -\frac{72}{743}, \frac{87}{743})$ $+\frac{24}{743}\sqrt{21}e^1 \otimes e_8 + \frac{6}{743}\sqrt{1605}e^4 \otimes e_7$	{123679, 127, 13459, 1456}
953:199	$0, 0, 0, 0, \frac{6}{743}\sqrt{537}e^{12}, \frac{48}{743}\sqrt{15}e^{34}, \frac{12}{743}\sqrt{282}e^{15}, \frac{12}{743}\sqrt{42}e^{25},$ $\frac{6}{743}\sqrt{987}e^{13} + \frac{48}{743}\sqrt{15}e^{46}$	$(-\frac{18}{743}, -\frac{27}{743}, \frac{105}{743}, -\frac{9}{743}, -\frac{45}{743}, \frac{96}{743}, -\frac{63}{743}, -\frac{72}{743}, \frac{87}{743})$ $-\frac{24}{743}\sqrt{21}e^1 \otimes e_8 + \frac{6}{743}\sqrt{1605}e^4 \otimes e_7$	{123679, 127, 13459, 1456}
953:200	$0, 0, 0, 0, \frac{7}{2019}\sqrt{33702}e^{12}, \frac{1}{2019}\sqrt{581154}e^{34}, \frac{2}{673}\sqrt{959}e^{15},$ $\frac{2}{2019}\sqrt{270438}e^{13} + \frac{1}{673}\sqrt{182210}e^{25}, \frac{1}{2019}\sqrt{1290814}e^{46}$	$(\frac{10}{673}, \frac{101}{673}, \frac{202}{673}, -\frac{631}{2019}, \frac{111}{673}, -\frac{25}{2019}, \frac{121}{673}, \frac{212}{673}, -\frac{656}{2019})$ $+\frac{2}{673}\sqrt{89187}e^2 \otimes e_9$	{134589, 135689, 349, 369}
953:200	$0, 0, 0, 0, \frac{4}{141}\sqrt{35}e^{12}, \frac{4}{141}\sqrt{35}e^{34}, \frac{2}{141}\sqrt{105}e^{15},$ $\frac{1}{141}\sqrt{574}e^{13} + \frac{2}{141}\sqrt{105}e^{25}, \frac{1}{141}\sqrt{658}e^{46}$	$(-\frac{4}{47}, \frac{3}{47}, \frac{6}{47}, -\frac{8}{141}, -\frac{1}{47}, \frac{10}{141}, -\frac{5}{47}, \frac{2}{47}, \frac{2}{141})$ $+\frac{2}{141}\sqrt{217}e^2 \otimes e_9 + \frac{2}{141}\sqrt{217}e^4 \otimes e_7$	{134589, 349}
953:200	$0, 0, 0, 0, \frac{23}{1381}\sqrt{814}e^{12}, \frac{23}{1381}\sqrt{506}e^{34}, \frac{46}{1381}\sqrt{66}e^{15},$ $\frac{138}{1381}\sqrt{11}e^{13} + \frac{253}{1381}\sqrt{6}e^{25}, \frac{23}{1381}\sqrt{682}e^{46}$	$(-\frac{138}{1381}, \frac{253}{1381}, \frac{506}{1381}, -\frac{391}{1381}, \frac{115}{1381}, \frac{115}{1381}, -\frac{23}{1381}, \frac{368}{1381}, -\frac{276}{1381})$ $+\frac{46}{1381}\sqrt{179}e^3 \otimes e_7 + \frac{46}{1381}\sqrt{410}e^2 \otimes e_9$	{134589, 135689, 349, 369}
953:200	$0, 0, 0, 0, \frac{23}{1381}\sqrt{814}e^{12}, \frac{23}{1381}\sqrt{506}e^{34}, \frac{46}{1381}\sqrt{66}e^{15},$ $\frac{138}{1381}\sqrt{11}e^{13} + \frac{253}{1381}\sqrt{6}e^{25}, \frac{23}{1381}\sqrt{682}e^{46}$	$(-\frac{138}{1381}, \frac{253}{1381}, \frac{506}{1381}, -\frac{391}{1381}, \frac{115}{1381}, \frac{115}{1381}, -\frac{23}{1381}, \frac{368}{1381}, -\frac{276}{1381})$ $-\frac{46}{1381}\sqrt{179}e^3 \otimes e_7 + \frac{46}{1381}\sqrt{410}e^2 \otimes e_9$	{134589, 135689, 349, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953: 200	$0, 0, 0, 0, \frac{1}{497}\sqrt{10}e^{12}, \frac{1}{1491}\sqrt{462}e^{34}, \frac{2}{213}\sqrt{357}e^{15},$ $\frac{2}{497}\sqrt{35}e^{13} + \frac{1}{1491}\sqrt{7854}e^{25}, \frac{1}{213}\sqrt{142}e^{46}$	$(\frac{2}{71}, -\frac{1}{71}, -\frac{2}{71}, \frac{1}{213}, \frac{1}{71}, -\frac{5}{213}, \frac{3}{71}, 0, -\frac{4}{213})$ $+ \frac{2}{1491}\sqrt{2226}e^4 \otimes e_8 + \frac{1}{1491}\sqrt{2415}e^2 \otimes e_9$	{1356789, 3479}
953: 200	$0, 0, 0, 0, \frac{1}{497}\sqrt{462}e^{12}, \frac{1}{1491}\sqrt{10}e^{34}, \frac{1}{1491}\sqrt{7854}e^{15},$ $\frac{2}{497}\sqrt{35}e^{13} + \frac{1}{1491}\sqrt{357}e^{25}, \frac{1}{213}\sqrt{142}e^{46}$	$(\frac{11}{497}, -\frac{10}{497}, -\frac{20}{497}, \frac{43}{1491}, \frac{1}{497}, -\frac{17}{1491}, \frac{12}{497}, -\frac{9}{497}, \frac{26}{1491})$ $+ \frac{2}{1491}\sqrt{2226}e^1 \otimes e_9 + \frac{1}{1491}\sqrt{2415}e^4 \otimes e_7$	{127, 1456}
953: 200	$0, 0, 0, 0, \frac{7}{387}\sqrt{14}e^{12}, \frac{7}{387}\sqrt{1498}e^{34}, \frac{28}{387}\sqrt{105}e^{15},$ $\frac{14}{387}\sqrt{231}e^{13} + \frac{7}{387}\sqrt{546}e^{25}, \frac{7}{387}\sqrt{322}e^{46}$	$(-\frac{118}{387}, \frac{107}{387}, \frac{214}{387}, -\frac{61}{387}, -\frac{11}{387}, \frac{17}{387}, -\frac{1}{3}, \frac{32}{129}, \frac{92}{387})$ $+ \frac{14}{387}\sqrt{1113}e^3 \otimes e_7$	{13459, 13569, 3489, 3689}
953: 200	$0, 0, 0, 0, \frac{6}{779}\sqrt{770}e^{12}, \frac{6}{779}\sqrt{546}e^{34}, \frac{12}{779}\sqrt{427}e^{15},$ $\frac{30}{779}\sqrt{42}e^{13} + \frac{6}{779}\sqrt{721}e^{25}, \frac{24}{779}\sqrt{70}e^{46}$	$(-\frac{24}{779}, \frac{78}{779}, \frac{156}{779}, -\frac{153}{779}, \frac{54}{779}, \frac{3}{779}, \frac{30}{779}, \frac{132}{779}, -\frac{150}{779})$ $+ \frac{6}{779}\sqrt{2093}e^3 \otimes e_7 + \frac{6}{779}\sqrt{2765}e^1 \otimes e_9$	{3489, 3689}
953: 200	$0, 0, 0, 0, \frac{10}{1257}\sqrt{546}e^{12}, \frac{10}{1257}\sqrt{546}e^{34}, \frac{5}{1257}\sqrt{182}e^{15},$ $\frac{5}{1257}\sqrt{3318}e^{13} + \frac{5}{1257}\sqrt{182}e^{25}, \frac{5}{1257}\sqrt{5866}e^{46}$	$(\frac{65}{419}, -\frac{40}{419}, -\frac{80}{419}, \frac{130}{419}, \frac{25}{419}, -\frac{110}{419}, \frac{90}{419}, -\frac{15}{419}, \frac{20}{1257})$ $+ \frac{20}{1257}\sqrt{483}e^1 \otimes e_9 + \frac{20}{1257}\sqrt{483}e^4 \otimes e_8$	{1278, 158}
953: 200	$0, 0, 0, 0, \frac{47}{9781}\sqrt{474}e^{12}, \frac{47}{9781}\sqrt{5282}e^{34}, \frac{188}{9781}\sqrt{70}e^{15},$ $\frac{94}{9781}\sqrt{929}e^{13} + \frac{47}{9781}\sqrt{2486}e^{25}, \frac{47}{9781}\sqrt{4098}e^{46}$	$(-\frac{1034}{9781}, \frac{141}{9781}, \frac{282}{9781}, \frac{1457}{9781}, -\frac{893}{9781}, \frac{1739}{9781}, -\frac{1927}{9781}, -\frac{752}{9781}, \frac{3196}{9781})$ $+ \frac{4700}{9781}e^4 \otimes e_8 + \frac{94}{9781}\sqrt{1817}e^3 \otimes e_7$	{123459, 23689}
953: 200	$0, 0, 0, 0, \frac{1}{2019}\sqrt{581154}e^{12}, \frac{7}{2019}\sqrt{33702}e^{34}, \frac{1}{673}\sqrt{182210}e^{15},$ $\frac{2}{2019}\sqrt{270438}e^{13} + \frac{2}{673}\sqrt{959}e^{25}, \frac{1}{2019}\sqrt{1290814}e^{46}$	$(-\frac{83}{673}, \frac{8}{673}, \frac{16}{673}, \frac{485}{2019}, -\frac{75}{673}, \frac{533}{2019}, -\frac{158}{673}, -\frac{67}{673}, \frac{1018}{2019})$ $+ \frac{2}{673}\sqrt{89187}e^4 \otimes e_7$	{1236789, 134589, 235679, 349}
953: 201	$0, 0, 0, 0, \frac{88}{317}\sqrt{2}e^{12}, \frac{88}{317}\sqrt{2}e^{34}, \frac{24}{317}\sqrt{22}e^{15}, \frac{24}{317}\sqrt{22}e^{36},$ $\frac{16}{317}\sqrt{33}e^{25} + \frac{16}{317}\sqrt{33}e^{46}$	$(-\frac{64}{317}, \frac{88}{317}, -\frac{64}{317}, \frac{88}{317}, \frac{24}{317}, \frac{24}{317}, -\frac{40}{317}, -\frac{40}{317}, \frac{112}{317})$ $+ \frac{8}{317}\sqrt{542}e^2 \otimes e_8 - \frac{8}{317}\sqrt{542}e^4 \otimes e_7$	{123679, 257}
953: 201	$0, 0, 0, 0, \frac{88}{317}\sqrt{2}e^{12}, \frac{88}{317}\sqrt{2}e^{34}, \frac{24}{317}\sqrt{22}e^{15}, \frac{24}{317}\sqrt{22}e^{36},$ $\frac{16}{317}\sqrt{33}e^{25} + \frac{16}{317}\sqrt{33}e^{46}$	$(-\frac{64}{317}, \frac{88}{317}, -\frac{64}{317}, \frac{88}{317}, \frac{24}{317}, \frac{24}{317}, \frac{40}{317}, -\frac{40}{317}, \frac{112}{317})$ $+ \frac{8}{317}\sqrt{542}e^2 \otimes e_8 + \frac{8}{317}\sqrt{542}e^4 \otimes e_7$	{123679, 257}
953: 201	$0, 0, 0, 0, \frac{1}{501}\sqrt{102538}e^{12}, \frac{2}{501}\sqrt{4605}e^{34}, \frac{2}{501}\sqrt{26709}e^{15},$ $\frac{2}{501}\sqrt{26709}e^{36} + \frac{1}{501}\sqrt{12894}e^{25} + \frac{1}{501}\sqrt{12894}e^{46}$	$(\frac{160}{501}, -\frac{56}{501}, -\frac{38}{167}, \frac{27}{167}, \frac{104}{501}, -\frac{11}{167}, \frac{88}{167}, -\frac{49}{167}, \frac{16}{167})$ $+ \frac{1}{501}\sqrt{252354}e^1 \otimes e_8$	{12367, 1356, 2456789, 4689}
953: 201	$0, 0, 0, 0, \frac{28}{6641}\sqrt{6}e^{12}, \frac{2}{6641}\sqrt{1271}e^{34}, \frac{4}{6641}\sqrt{593}e^{15}, \frac{2}{6641}\sqrt{627}e^{36},$ $\frac{10}{6641}\sqrt{19}e^{25} + \frac{2}{6641}\sqrt{2581}e^{46}$	$(-\frac{20}{6641}, -\frac{1}{6641}, \frac{56}{6641}, -\frac{39}{6641}, -\frac{21}{6641}, \frac{17}{6641}, -\frac{41}{6641}, \frac{73}{6641}, -\frac{22}{6641})$ $+ \frac{2}{6641}\sqrt{3113}e^4 \otimes e_7 + \frac{4}{6641}\sqrt{707}e^1 \otimes e_9$	{1278, 1456, 2356789, 349}
953: 201	$0, 0, 0, 0, \frac{28}{6641}\sqrt{6}e^{12}, \frac{2}{6641}\sqrt{1271}e^{34}, \frac{4}{6641}\sqrt{593}e^{15}, \frac{2}{6641}\sqrt{627}e^{36},$ $\frac{10}{6641}\sqrt{19}e^{25} + \frac{2}{6641}\sqrt{2581}e^{46}$	$(-\frac{20}{6641}, -\frac{1}{6641}, \frac{56}{6641}, -\frac{39}{6641}, -\frac{21}{6641}, \frac{17}{6641}, -\frac{41}{6641}, \frac{73}{6641}, -\frac{22}{6641})$ $+ \frac{2}{6641}\sqrt{3113}e^4 \otimes e_7 - \frac{4}{6641}\sqrt{707}e^1 \otimes e_9$	{1278, 1456, 2356789, 349}
953: 201	$0, 0, 0, 0, \frac{2}{4821}\sqrt{1936435}e^{12}, \frac{4}{1607}\sqrt{8435}e^{34}, \frac{2}{1607}\sqrt{61455}e^{15},$ $\frac{20}{1607}\sqrt{2651}e^{36} + \frac{2}{1607}\sqrt{285585}e^{25} + \frac{2}{4821}\sqrt{1348395}e^{46}$	$(-\frac{392}{4821}, \frac{1081}{4821}, -\frac{492}{1607}, \frac{541}{1607}, \frac{689}{4821}, \frac{49}{1607}, \frac{99}{1607}, -\frac{443}{1607}, \frac{590}{1607})$ $+ \frac{10}{4821}\sqrt{195933}e^2 \otimes e_8$	{129, 1456789, 2356, 3478}
953: 201	$0, 0, 0, 0, \frac{39}{10303}\sqrt{3602}e^{12}, \frac{156}{10303}\sqrt{255}e^{34}, \frac{156}{10303}\sqrt{499}e^{15},$ $\frac{78}{10303}\sqrt{526}e^{36} + \frac{39}{10303}\sqrt{3346}e^{25} + \frac{39}{10303}\sqrt{4494}e^{46}$	$(-\frac{390}{10303}, \frac{1092}{10303}, -\frac{1872}{10303}, \frac{1833}{10303}, \frac{702}{10303}, -\frac{39}{10303}, \frac{312}{10303}, -\frac{1911}{10303}, \frac{1794}{10303})$ $+ \frac{2730}{10303}\sqrt{2}e^4 \otimes e_7 + \frac{39}{10303}\sqrt{8366}e^1 \otimes e_8$	{127, 3489}
953: 201	$0, 0, 0, 0, \frac{1}{613}\sqrt{226}e^{12}, \frac{1}{613}\sqrt{226}e^{34}, \frac{1}{613}\sqrt{434}e^{15}, \frac{1}{613}\sqrt{434}e^{36},$ $\frac{2}{613}\sqrt{19}e^{25} + \frac{2}{613}\sqrt{19}e^{46}$	$(\frac{9}{613}, -\frac{10}{613}, \frac{9}{613}, -\frac{10}{613}, -\frac{1}{613}, -\frac{1}{613}, \frac{8}{613}, \frac{8}{613}, -\frac{11}{613})$ $+ \frac{2}{613}\sqrt{137}e^1 \otimes e_8 + \frac{2}{613}\sqrt{137}e^3 \otimes e_7$	{1356, 2456789}
953: 203	$0, 0, 0, 0, \frac{3}{8}e^{12}, \frac{3}{8}e^{34}, \frac{3}{8}\sqrt{3}e^{15} - \frac{1}{8}\sqrt{57}e^{23},$ $\frac{1}{8}\sqrt{57}e^{13} + \frac{3}{8}\sqrt{3}e^{25}, \frac{1}{8}\sqrt{6}e^{36}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, 0)$ $+ \frac{3}{8}\sqrt{10}e^3 \otimes e_4$	{1245789, 1489, 459, 1245789, 1489, 459}
953: 203	$0, 0, 0, 0, \frac{3}{8}e^{12}, \frac{3}{8}e^{34}, \frac{3}{8}\sqrt{3}e^{15} + \frac{1}{8}\sqrt{57}e^{23},$ $\frac{1}{8}\sqrt{57}e^{13} + \frac{3}{8}\sqrt{3}e^{25}, \frac{1}{8}\sqrt{6}e^{36}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, \frac{3}{8}, \frac{3}{8}, 0)$ $+ \frac{3}{8}\sqrt{10}e^3 \otimes e_4$	{1245789, 1489, 459, 1245789, 1489, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:203	$0, 0, 0, 0, \frac{24}{361}\sqrt{21}e^{12}, \frac{6}{361}\sqrt{186}e^{34}, \frac{9}{361}\sqrt{137}e^{15} - \frac{3}{361}\sqrt{1383}e^{23},$ $\frac{3}{361}\sqrt{483}e^{13} + \frac{9}{361}\sqrt{37}e^{25}, \frac{24}{361}\sqrt{21}e^{36}$	$(\frac{12}{361}, \frac{12}{361}, \frac{24}{361}, -\frac{63}{361}, \frac{24}{361}, -\frac{39}{361}, \frac{36}{361}, \frac{36}{361}, -\frac{15}{361})$ $+ \frac{90}{361}\sqrt{2}e^1 \otimes e_9$	{123678, 13568, 234579, 349, 123678, 13568, 234579, 349}
953:203	$0, 0, 0, 0, \frac{24}{361}\sqrt{21}e^{12}, \frac{6}{361}\sqrt{186}e^{34}, \frac{9}{361}\sqrt{137}e^{15} + \frac{3}{361}\sqrt{1383}e^{23},$ $\frac{3}{361}\sqrt{483}e^{13} + \frac{9}{361}\sqrt{37}e^{25}, \frac{24}{361}\sqrt{21}e^{36}$	$(\frac{12}{361}, \frac{12}{361}, \frac{24}{361}, -\frac{63}{361}, \frac{24}{361}, -\frac{39}{361}, \frac{36}{361}, \frac{36}{361}, -\frac{15}{361})$ $+ \frac{90}{361}\sqrt{2}e^1 \otimes e_9$	{123678, 13568, 234579, 349, 123678, 13568, 234579, 349}
953:204	$0, 0, 0, 0, \frac{14}{1669}\sqrt{690}e^{12}, \frac{7}{1669}\sqrt{5622}e^{34}, \frac{14}{1669}\sqrt{1506}e^{15},$ $\frac{7}{1669}\sqrt{978}e^{13} + \frac{21}{1669}\sqrt{134}e^{25}, \frac{7}{1669}\sqrt{5874}e^{14} + \frac{7}{1669}\sqrt{5622}e^{36}$	$(-\frac{84}{1669}, -\frac{21}{1669}, -\frac{42}{1669}, \frac{280}{1669}, -\frac{105}{1669}, \frac{238}{1669}, -\frac{189}{1669}, -\frac{126}{1669}, \frac{196}{1669})$ $+ \frac{63}{1669}\sqrt{106}e^3 \otimes e_7$	{124679, 127}
953:204	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{2}{53}\sqrt{30}e^{34}, \frac{2}{53}\sqrt{3}e^{15},$ $\frac{2}{53}\sqrt{87}e^{13} + \frac{18}{53}e^{25}, \frac{2}{53}\sqrt{21}e^{14} + \frac{10}{53}\sqrt{3}e^{36}$	$(\frac{4}{53}, \frac{1}{53}, \frac{2}{53}, -\frac{9}{53}, \frac{5}{53}, -\frac{7}{53}, \frac{9}{53}, \frac{6}{53}, -\frac{5}{53})$ $+ \frac{6}{53}\sqrt{15}e^2 \otimes e_9$	{23567, 349}
953:204	$0, 0, 0, 0, \frac{10}{209}\sqrt{102}e^{12}, \frac{10}{209}\sqrt{273}e^{34}, \frac{20}{209}\sqrt{66}e^{15},$ $\frac{10}{209}\sqrt{231}e^{13} + \frac{30}{209}\sqrt{3}e^{25}, \frac{10}{209}\sqrt{39}e^{14} + \frac{10}{209}\sqrt{102}e^{36}$	$(-\frac{20}{209}, -\frac{5}{209}, -\frac{10}{209}, \frac{105}{209}, -\frac{25}{209}, \frac{5}{11}, -\frac{45}{209}, -\frac{30}{209}, \frac{85}{209})$ $+ \frac{30}{209}\sqrt{57}e^4 \otimes e_7$	{23567, 349}
953:204	$0, 0, 0, 0, \frac{68}{1453}\sqrt{114}e^{12}, \frac{85}{1453}\sqrt{30}e^{34}, \frac{68}{1453}\sqrt{177}e^{15},$ $\frac{17}{1453}\sqrt{2478}e^{13} + \frac{204}{1453}\sqrt{21}e^{25}, \frac{17}{1453}\sqrt{3990}e^{14} + \frac{68}{1453}\sqrt{114}e^{36}$	$(-\frac{136}{1453}, -\frac{34}{1453}, -\frac{68}{1453}, \frac{663}{1453}, -\frac{170}{1453}, \frac{595}{1453}, -\frac{306}{1453}, -\frac{204}{1453}, \frac{527}{1453})$ $+ \frac{51}{1453}\sqrt{858}e^4 \otimes e_8$	{123457, 134}
953:205	$0, 0, 0, 0, \frac{44}{6223}\sqrt{130}e^{12}, \frac{44}{6223}\sqrt{357}e^{34}, \frac{11}{6223}\sqrt{2562}e^{15},$ $\frac{11}{6223}\sqrt{2670}e^{13} + \frac{11}{889}\sqrt{134}e^{25}, \frac{88}{6223}\sqrt{115}e^{23} + \frac{11}{6223}\sqrt{6602}e^{46}$	$(-\frac{319}{6223}, \frac{132}{6223}, \frac{264}{6223}, \frac{66}{6223}, -\frac{187}{6223}, \frac{330}{6223}, -\frac{506}{6223}, -\frac{55}{6223}, \frac{396}{6223})$ $+ \frac{44}{6223}\sqrt{681}e^4 \otimes e_8$	{128, 2456}
953:205	$0, 0, 0, 0, \frac{7}{197}\sqrt{165}e^{12}, \frac{14}{197}\sqrt{14}e^{34}, \frac{7}{197}\sqrt{267}e^{15},$ $\frac{14}{197}\sqrt{33}e^{13} + \frac{7}{197}\sqrt{145}e^{25}, \frac{7}{197}\sqrt{161}e^{23} + \frac{7}{197}\sqrt{209}e^{46}$	$(\frac{56}{197}, -\frac{14}{197}, -\frac{28}{197}, -\frac{7}{197}, \frac{42}{197}, -\frac{35}{197}, \frac{98}{197}, \frac{28}{197}, -\frac{42}{197})$ $+ \frac{7}{197}\sqrt{663}e^1 \otimes e_9$	{123467, 1237}
953:205	$0, 0, 0, 0, \frac{47}{6517}\sqrt{3134}e^{12}, \frac{47}{6517}\sqrt{6770}e^{34}, \frac{423}{6517}\sqrt{62}e^{15},$ $\frac{282}{6517}\sqrt{97}e^{13} + \frac{94}{6517}\sqrt{365}e^{25}, \frac{94}{6517}\sqrt{946}e^{23} + \frac{47}{6517}\sqrt{5606}e^{46}$	$(-\frac{1269}{6517}, \frac{94}{931}, \frac{188}{931}, \frac{47}{931}, -\frac{611}{6517}, \frac{235}{931}, -\frac{1880}{6517}, \frac{47}{6517}, \frac{282}{931})$ $+ \frac{282}{6517}\sqrt{303}e^4 \otimes e_7$	{1236789, 235679}
953:206	$0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{5}\sqrt{2}e^{34}, \frac{1}{5}\sqrt{6}e^{15},$ $\frac{2}{5}\sqrt{3}e^{13} + \frac{1}{5}\sqrt{10}e^{25}, \frac{1}{5}\sqrt{14}e^{24} + \frac{1}{5}\sqrt{2}e^{36}$	$(\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{3}{5}\sqrt{2}e^1 \otimes e_9$	{1678, 4579}
953:206	$0, 0, 0, 0, \frac{22}{175}\sqrt{2}e^{12}, \frac{11}{175}\sqrt{106}e^{34}, \frac{11}{35}\sqrt{6}e^{15},$ $\frac{11}{175}\sqrt{58}e^{13} + \frac{11}{175}\sqrt{42}e^{25}, \frac{33}{175}\sqrt{10}e^{24} + \frac{22}{175}\sqrt{2}e^{36}$	$(-\frac{22}{175}, 0, 0, \frac{11}{25}, -\frac{22}{175}, \frac{11}{25}, -\frac{44}{175}, -\frac{22}{175}, \frac{11}{25})$ $+ \frac{11}{25}\sqrt{6}e^4 \otimes e_7$	{14569, 4689}
953:206	$0, 0, 0, 0, \frac{8}{17}\sqrt{3}e^{12}, \frac{2}{17}\sqrt{26}e^{34}, \frac{6}{17}\sqrt{2}e^{15},$ $\frac{4}{17}\sqrt{19}e^{13} + \frac{4}{17}\sqrt{5}e^{25}, \frac{2}{17}\sqrt{70}e^{24} + \frac{8}{17}\sqrt{3}e^{36}$	$(-\frac{2}{17}, 0, 0, \frac{6}{17}, -\frac{2}{17}, \frac{6}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{6}{17})$ $+ \frac{2}{17}\sqrt{66}e^4 \otimes e_8$	{168, 459}
953:207	$0, 0, 0, 0, \frac{8}{129}\sqrt{21}e^{12}, \frac{16}{129}\sqrt{21}e^{34}, \frac{2}{43}\sqrt{154}e^{15} - \frac{2}{129}\sqrt{546}e^{23},$ $\frac{2}{129}\sqrt{966}e^{13} + \frac{2}{43}\sqrt{14}e^{25}, \frac{4}{129}\sqrt{301}e^{46}$	$(-\frac{2}{43}, -\frac{2}{43}, -\frac{4}{43}, \frac{38}{129}, -\frac{4}{43}, \frac{26}{129}, -\frac{6}{43}, -\frac{6}{43}, \frac{64}{129})$ $+ \frac{8}{43}\sqrt{21}e^4 \otimes e_7$	{127, 1456, 2578, 468, 127, 1456, 2578, 468}
953:207	$0, 0, 0, 0, \frac{8}{129}\sqrt{21}e^{12}, \frac{16}{129}\sqrt{21}e^{34}, \frac{2}{43}\sqrt{154}e^{15} + \frac{2}{129}\sqrt{546}e^{23},$ $\frac{2}{129}\sqrt{966}e^{13} + \frac{2}{43}\sqrt{14}e^{25}, \frac{4}{129}\sqrt{301}e^{46}$	$(-\frac{2}{43}, -\frac{2}{43}, -\frac{4}{43}, \frac{38}{129}, -\frac{4}{43}, \frac{26}{129}, -\frac{6}{43}, -\frac{6}{43}, \frac{64}{129})$ $+ \frac{8}{43}\sqrt{21}e^4 \otimes e_7$	{127, 1456, 2578, 468, 127, 1456, 2578, 468}
953:207	$0, 0, 0, 0, \frac{16}{129}\sqrt{21}e^{12}, \frac{8}{129}\sqrt{21}e^{34}, \frac{2}{43}\sqrt{154}e^{15} - \frac{2}{129}\sqrt{966}e^{23},$ $\frac{2}{129}\sqrt{546}e^{13} + \frac{2}{43}\sqrt{14}e^{25}, \frac{4}{129}\sqrt{301}e^{46}$	$(\frac{4}{43}, \frac{4}{43}, \frac{8}{43}, -\frac{34}{129}, \frac{8}{43}, -\frac{10}{129}, \frac{12}{43}, \frac{12}{43}, -\frac{44}{129})$ $+ \frac{8}{43}\sqrt{21}e^1 \otimes e_9$	{2345789, 2356789, 3489, 3689, 2345789, 2356789, 3489, 3689}
953:207	$0, 0, 0, 0, \frac{16}{129}\sqrt{21}e^{12}, \frac{8}{129}\sqrt{21}e^{34}, \frac{2}{43}\sqrt{154}e^{15} + \frac{2}{129}\sqrt{966}e^{23},$ $\frac{2}{129}\sqrt{546}e^{13} + \frac{2}{43}\sqrt{14}e^{25}, \frac{4}{129}\sqrt{301}e^{46}$	$(\frac{4}{43}, \frac{4}{43}, \frac{8}{43}, -\frac{34}{129}, \frac{8}{43}, -\frac{10}{129}, \frac{12}{43}, \frac{12}{43}, -\frac{44}{129})$ $+ \frac{8}{43}\sqrt{21}e^1 \otimes e_9$	{2345789, 2356789, 3489, 3689, 2345789, 2356789, 3489, 3689}
953:208	$0, 0, 0, 0, \frac{8}{433}\sqrt{70}e^{12}, \frac{20}{433}\sqrt{7}e^{34}, \frac{1}{433}\sqrt{3990}e^{15} + \frac{4}{433}\sqrt{322}e^{23},$ $\frac{1}{433}\sqrt{2226}e^{14} + \frac{7}{433}\sqrt{30}e^{25}, \frac{1}{433}\sqrt{3738}e^{36}$	$(-\frac{13}{433}, \frac{16}{433}, -\frac{26}{433}, \frac{32}{433}, \frac{3}{433}, \frac{6}{433}, -\frac{10}{433}, \frac{19}{433}, -\frac{20}{433})$ $+ \frac{12}{433}\sqrt{35}e^1 \otimes e_9$	{234579, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
953:208	$0, 0, 0, 0, \frac{62}{3019}\sqrt{1019e^{12}}, \frac{62}{3019}\sqrt{609e^{34}},$ $\frac{62}{3019}\sqrt{303e^{15}} + \frac{62}{3019}\sqrt{691e^{23}}, \frac{31}{3019}\sqrt{3426e^{14}} + \frac{186}{3019}\sqrt{102e^{25}}, \frac{93}{3019}\sqrt{326e^{36}}$	$(-\frac{372}{3019}, \frac{527}{3019}, -\frac{744}{3019}, \frac{1054}{3019}, \frac{155}{3019}, \frac{310}{3019}, -\frac{217}{3019}, \frac{682}{3019}, -\frac{434}{3019})$ $+ \frac{62}{3019}\sqrt{1230e^2} \otimes e_9$	{134589, 349}
953:208	$0, 0, 0, 0, \frac{444}{2671}\sqrt{6e^{12}}, \frac{148}{2671}\sqrt{41e^{34}},$ $\frac{37}{2671}\sqrt{1218e^{15}} + \frac{296}{2671}\sqrt{23e^{23}}, \frac{37}{2671}\sqrt{1902e^{14}} + \frac{111}{2671}\sqrt{118e^{25}}, \frac{37}{2671}\sqrt{1290e^{36}}$	$(\frac{481}{2671}, -\frac{444}{2671}, \frac{962}{2671}, -\frac{888}{2671}, \frac{37}{2671}, \frac{74}{2671}, \frac{518}{2671}, -\frac{407}{2671}, \frac{1036}{2671})$ $+ \frac{148}{2671}\sqrt{285e^3} \otimes e_8$	{246789, 45689}
953:209	$0, 0, 0, 0, \frac{13}{1711}\sqrt{1747e^{12}}, \frac{26}{1711}\sqrt{193e^{34}}, \frac{39}{1711}\sqrt{17e^{15}},$ $\frac{78}{1711}\sqrt{53e^{36}}, \frac{13}{1711}\sqrt{1819e^{13}} + \frac{13}{1711}\sqrt{1857e^{25}} + \frac{13}{1711}\sqrt{483e^{46}}$	$(\frac{208}{1711}, -\frac{91}{1711}, -\frac{182}{1711}, \frac{104}{1711}, \frac{117}{1711}, -\frac{78}{1711}, \frac{325}{1711}, -\frac{260}{1711}, \frac{26}{1711})$ $+ \frac{195}{1711}\sqrt{13e^2} \otimes e_8$	{23567, 348}
953:209	$0, 0, 0, 0, \frac{13}{1379}\sqrt{4610e^{12}}, \frac{26}{1379}\sqrt{210e^{34}}, \frac{520}{1379}\sqrt{3e^{15}},$ $\frac{520}{1379}\sqrt{3e^{36}}, \frac{26}{1379}\sqrt{10e^{13}} + \frac{13}{1379}\sqrt{570e^{25}} + \frac{13}{1379}\sqrt{570e^{46}}$	$(\frac{442}{1379}, -\frac{156}{1379}, -\frac{312}{1379}, \frac{221}{1379}, \frac{286}{1379}, -\frac{13}{197}, \frac{104}{197}, -\frac{403}{1379}, \frac{130}{1379})$ $+ \frac{13}{1379}\sqrt{11310e^1} \otimes e_8$	{2456789, 4689}
953:210	$0, 0, 0, 0, \frac{4}{37}\sqrt{5e^{12}}, \frac{2}{37}\sqrt{35e^{34}}, \frac{8}{37}\sqrt{5e^{13}} + \frac{4}{37}\sqrt{15e^{25}},$ $\frac{2}{37}\sqrt{55e^{36}}, \frac{10}{37}\sqrt{3e^{15}} + \frac{2}{37}\sqrt{105e^{46}}$	$(\frac{7}{37}, -\frac{4}{37}, -\frac{8}{37}, \frac{9}{37}, \frac{3}{37}, \frac{1}{37}, -\frac{1}{37}, -\frac{7}{37}, \frac{10}{37})$ $+ \frac{2}{37}\sqrt{165e^4} \otimes e_7$	{123459, 236789}
953:210	$0, 0, 0, 0, \frac{17}{6607}\sqrt{7298e^{12}}, \frac{136}{6607}\sqrt{55e^{34}},$ $\frac{34}{6607}\sqrt{2170e^{13}} + \frac{136}{6607}\sqrt{102e^{25}}, \frac{34}{6607}\sqrt{2066e^{36}}, \frac{17}{6607}\sqrt{2310e^{15}} + \frac{51}{6607}\sqrt{322e^{46}}$	$(\frac{476}{6607}, -\frac{306}{6607}, -\frac{612}{6607}, \frac{629}{6607}, \frac{170}{6607}, \frac{17}{6607}, -\frac{136}{6607}, -\frac{595}{6607}, \frac{646}{6607})$ $+ \frac{17}{6607}\sqrt{11334e^2} \otimes e_8$	{134578, 348}
953:210	$0, 0, 0, 0, \frac{14}{809}\sqrt{1194e^{12}}, \frac{168}{809}\sqrt{2e^{34}}, \frac{14}{809}\sqrt{346e^{13}} + \frac{28}{809}\sqrt{57e^{25}},$ $\frac{112}{809}\sqrt{23e^{36}}, \frac{84}{809}\sqrt{43e^{15}} + \frac{14}{809}\sqrt{834e^{46}}$	$(\frac{210}{809}, -\frac{112}{809}, -\frac{224}{809}, \frac{266}{809}, \frac{98}{809}, \frac{42}{809}, -\frac{14}{809}, -\frac{182}{809}, \frac{308}{809})$ $+ \frac{42}{809}\sqrt{302e^1} \otimes e_8$	{129, 2456789}
953:211	$0, 0, 0, 0, \frac{588}{7207}\sqrt{7e^{12}}, \frac{1960}{7207}\sqrt{2e^{34}}, \frac{49}{7207}\sqrt{6522e^{15}},$ $\frac{49}{7207}\sqrt{4814e^{23}} + \frac{49}{7207}\sqrt{2978e^{46}}, \frac{196}{7207}\sqrt{322e^{25}} + \frac{49}{7207}\sqrt{5910e^{36}}$	$(-\frac{1862}{7207}, \frac{1568}{7207}, \frac{245}{7207}, \frac{784}{7207}, -\frac{294}{7207}, \frac{1029}{7207}, -\frac{2156}{7207}, \frac{1813}{7207}, \frac{1274}{7207})$ $+ \frac{196}{7207}\sqrt{789e^3} \otimes e_7$	{123459, 236}
953:211	$0, 0, 0, 0, \frac{8}{239}\sqrt{247e^{12}}, \frac{16}{239}\sqrt{5e^{34}}, \frac{8}{239}\sqrt{357e^{15}},$ $\frac{8}{239}\sqrt{215e^{23}} + \frac{8}{239}\sqrt{271e^{46}}, \frac{8}{239}\sqrt{115e^{25}} + \frac{48}{239}\sqrt{2e^{36}}$	$(\frac{88}{239}, -\frac{48}{239}, \frac{8}{239}, -\frac{24}{239}, \frac{40}{239}, -\frac{16}{239}, \frac{128}{239}, -\frac{40}{239}, -\frac{8}{239})$ $+ \frac{24}{239}\sqrt{89e^1} \otimes e_8$	{1237, 245789}
953:211	$0, 0, 0, 0, \frac{61}{7933}\sqrt{2510e^{12}}, \frac{61}{7933}\sqrt{6882e^{34}}, \frac{427}{7933}\sqrt{102e^{15}},$ $\frac{122}{7933}\sqrt{1195e^{23}} + \frac{61}{7933}\sqrt{6910e^{46}}, \frac{122}{7933}\sqrt{218e^{25}} + \frac{122}{7933}\sqrt{21e^{36}}$	$(-\frac{2379}{7933}, \frac{2074}{7933}, \frac{366}{7933}, \frac{1037}{7933}, -\frac{305}{7933}, \frac{1403}{7933}, -\frac{2684}{7933}, \frac{2440}{7933}, \frac{1769}{7933})$ $+ \frac{122}{7933}\sqrt{3279e^4} \otimes e_7$	{1236789, 1279}
952:1	$0, 0, 0, 0, \frac{4}{497}\sqrt{1281e^{12}}, \frac{12}{497}\sqrt{7e^{13}}, \frac{8}{497}\sqrt{1155e^{23}}, \frac{36}{497}\sqrt{35e^{15}},$ $\frac{12}{497}\sqrt{5e^{25}}$	$(-\frac{37}{497}, -\frac{2}{71}, \frac{80}{497}, \frac{234}{497}, -\frac{51}{497}, \frac{43}{497}, \frac{66}{497}, -\frac{88}{497}, -\frac{65}{497})$ $+ \frac{4}{497}\sqrt{4074e^4} \otimes e_7 + \frac{4}{497}\sqrt{5523e^3} \otimes e_8$	{123459, 14689, 2346, 458}
952:1	$0, 0, 0, 0, \frac{14}{2137}\sqrt{1983e^{12}}, \frac{6}{2137}\sqrt{19169e^{13}}, \frac{2}{2137}\sqrt{287535e^{23}},$ $\frac{2}{2137}\sqrt{255146e^{15}}, \frac{2}{2137}\sqrt{25118e^{25}}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{561}{2137}, -\frac{387}{2137})$ $+ \frac{2}{2137}\sqrt{794522e^3} \otimes e_8 + \frac{4}{2137}\sqrt{112370e^4} \otimes e_9$	{12345, 1468, 2369, 589}
952:1	$0, 0, 0, 0, \frac{2}{1169}\sqrt{109779e^{12}}, \frac{1}{1169}\sqrt{59570e^{13}}, \frac{12}{1169}\sqrt{4255e^{23}},$ $\frac{2}{1169}\sqrt{189773e^{15}}, \frac{2}{1169}\sqrt{86802e^{25}}$	$(\frac{430}{1169}, -\frac{220}{1169}, -\frac{201}{1169}, \frac{194}{1169}, \frac{30}{167}, \frac{229}{1169}, -\frac{421}{1169}, \frac{640}{1169}, -\frac{10}{1169})$ $+ \frac{5}{1169}\sqrt{66378e^1} \otimes e_7$	{12348, 1238, 1456, 156, 245789, 25789, 34679, 3679}
952:1	$0, 0, 0, 0, \frac{3}{139}\sqrt{341e^{12}}, \frac{1}{278}\sqrt{27962e^{13}}, \frac{1}{278}\sqrt{24211e^{23}}, \frac{1}{139}\sqrt{20119e^{15}},$ $\frac{1}{278}\sqrt{23870e^{25}}$	$(-\frac{93}{556}, \frac{15}{139}, \frac{27}{139}, 1, -\frac{33}{556}, \frac{15}{556}, \frac{42}{139}, -\frac{63}{278}, \frac{27}{556})$ $+ \frac{3}{278}\sqrt{17391e^4} \otimes e_8$	{12368, 1278, 134567, 145, 23589, 256789, 3479, 469}
952:1	$0, 0, 0, 0, \frac{180}{1429}\sqrt{7e^{12}}, \frac{15}{1429}\sqrt{2202e^{13}}, \frac{90}{1429}\sqrt{46e^{23}},$ $\frac{30}{1429}\sqrt{330e^{15}}, \frac{15}{1429}\sqrt{714e^{25}}$	$(-\frac{280}{1429}, \frac{150}{1429}, \frac{265}{1429}, \frac{660}{1429}, -\frac{130}{1429}, -\frac{15}{1429}, \frac{415}{1429}, -\frac{410}{1429}, \frac{20}{1429})$ $+ \frac{15}{1429}\sqrt{3126e^4} \otimes e_6 + \frac{15}{1429}\sqrt{4614e^3} \otimes e_8$	{123459, 1689, 236, 458}
952:1	$0, 0, 0, 0, \frac{2}{559}\sqrt{15663e^{12}}, \frac{2}{559}\sqrt{15209e^{13}}, \frac{30}{559}\sqrt{227e^{23}},$ $\frac{2}{559}\sqrt{45854e^{15}}, \frac{2}{559}\sqrt{25878e^{25}}$	$(-\frac{115}{559}, \frac{1}{13}, \frac{267}{559}, \frac{85}{559}, -\frac{72}{559}, \frac{152}{559}, \frac{310}{559}, -\frac{187}{559}, -\frac{29}{559})$ $+ \frac{2}{559}\sqrt{107598e^3} \otimes e_8$	{123459, 12359, 14689, 1689, 2346, 236, 458, 58}
952:1	$0, 0, 0, 0, \frac{4}{73}\sqrt{34e^{12}}, \frac{5}{73}\sqrt{17e^{13}}, \frac{5}{73}\sqrt{17e^{23}}, \frac{1}{73}\sqrt{238e^{15}},$ $\frac{1}{73}\sqrt{238e^{25}}$	$(\frac{5}{73}, \frac{5}{73}, -\frac{17}{73}, \frac{8}{73}, \frac{10}{73}, -\frac{12}{73}, -\frac{12}{73}, \frac{15}{73}, \frac{15}{73})$ $+ \frac{1}{73}\sqrt{1105e^1} \otimes e_7 + \frac{1}{73}\sqrt{1105e^2} \otimes e_6$	{123489, 12389, 14569, 1569, 3467, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:1	$0, 0, 0, 0, \frac{4}{73}\sqrt{34}e^{12}, \frac{5}{73}\sqrt{17}e^{13}, \frac{5}{73}\sqrt{17}e^{23}, \frac{1}{73}\sqrt{238}e^{15}, \frac{1}{73}\sqrt{238}e^{25}$	$(\frac{5}{73}, \frac{5}{73}, -\frac{17}{73}, \frac{8}{73}, \frac{10}{73}, -\frac{12}{73}, -\frac{12}{73}, \frac{15}{73}, \frac{15}{73})$ $+\frac{1}{73}\sqrt{1105}e^1 \otimes e_7 - \frac{1}{73}\sqrt{1105}e^2 \otimes e_6$	{123489, 12389, 14569, 1569, 3467, 367}
952:1	$0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{5}{1091}\sqrt{51034}e^{13}, \frac{1}{1091}\sqrt{351866}e^{23}, \frac{1}{1091}\sqrt{400214}e^{15}, \frac{2}{1091}\sqrt{103411}e^{25}$	$(-\frac{90}{1091}, \frac{213}{1091}, -\frac{162}{1091}, 1, \frac{123}{1091}, -\frac{252}{1091}, \frac{51}{1091}, \frac{33}{1091}, \frac{336}{1091})$ $+\frac{3}{1091}\sqrt{271286}e^4 \otimes e_6$	{1234578, 12568, 134, 167, 236789, 2489, 3569, 4579}
952:1	$0, 0, 0, 0, \frac{12}{1219}\sqrt{329}e^{12}, \frac{6}{1219}\sqrt{6063}e^{13}, \frac{12}{1219}\sqrt{1598}e^{23}, \frac{9}{1219}\sqrt{1222}e^{15}, \frac{3}{1219}\sqrt{8366}e^{25}$	$(\frac{267}{1219}, -\frac{282}{1219}, \frac{126}{1219}, \frac{135}{1219}, -\frac{15}{1219}, \frac{393}{1219}, -\frac{156}{1219}, \frac{252}{1219}, -\frac{297}{1219})$ $+\frac{3}{1219}\sqrt{48974}e^3 \otimes e_9 + \frac{3}{1219}\sqrt{52922}e^1 \otimes e_7$	{14569, 1569, 3467, 367}
952:1	$0, 0, 0, 0, \frac{5}{46}\sqrt{26}e^{12}, \frac{15}{46}\sqrt{6}e^{13}, \frac{15}{46}\sqrt{6}e^{23}, \frac{5}{46}\sqrt{6}e^{15}, \frac{5}{46}\sqrt{6}e^{25}$	$(\frac{1}{23}, \frac{1}{23}, \frac{19}{46}, -\frac{31}{46}, \frac{2}{23}, \frac{21}{46}, \frac{21}{46}, \frac{3}{23}, \frac{3}{23})$ $+\frac{5}{46}\sqrt{154}e^3 \otimes e_4$	{123589, 12456789, 1379, 1469, 3567, 45}
952:1	$0, 0, 0, 0, \frac{30}{1339}\sqrt{213}e^{12}, \frac{3}{1339}\sqrt{35074}e^{13}, \frac{3}{1339}\sqrt{28258}e^{23}, \frac{3}{1339}\sqrt{35358}e^{15}, \frac{42}{1339}\sqrt{71}e^{25}$	$(\frac{250}{1339}, -\frac{97}{1339}, -\frac{292}{1339}, \frac{597}{1339}, \frac{153}{1339}, -\frac{42}{1339}, -\frac{389}{1339}, \frac{31}{103}, \frac{56}{1339})$ $+\frac{3}{1339}\sqrt{62906}e^4 \otimes e_6 + \frac{6}{1339}\sqrt{26341}e^1 \otimes e_7$	{12348, 156, 245789, 3679}
952:1	$0, 0, 0, 0, \frac{1}{805}\sqrt{21082}e^{12}, \frac{1}{805}\sqrt{58674}e^{13}, \frac{13}{805}\sqrt{762}e^{23}, \frac{1}{805}\sqrt{83058}e^{15}, \frac{3}{161}\sqrt{254}e^{25}$	$(\frac{173}{805}, -\frac{103}{805}, \frac{22}{805}, -\frac{232}{805}, \frac{2}{23}, \frac{39}{161}, -\frac{81}{805}, \frac{243}{805}, -\frac{33}{805})$ $+\frac{1}{805}\sqrt{158242}e^3 \otimes e_4 + \frac{6}{805}\sqrt{5842}e^1 \otimes e_7$	{1238, 1456, 245789, 3679}
952:1	$0, 0, 0, 0, \frac{4}{3081}\sqrt{88711}e^{12}, \frac{4}{3081}\sqrt{85215}e^{13}, \frac{2}{1027}\sqrt{6555}e^{23}, \frac{16}{3081}\sqrt{437}e^{15}, \frac{2}{3081}\sqrt{274873}e^{25}$	$(-\frac{55}{3081}, \frac{170}{1027}, -\frac{103}{1027}, -\frac{929}{3081}, \frac{35}{237}, -\frac{28}{237}, \frac{67}{1027}, \frac{400}{3081}, \frac{965}{3081})$ $+\frac{46}{3081}\sqrt{1045}e^1 \otimes e_4 + \frac{4}{3081}\sqrt{161690}e^2 \otimes e_6$	{123789, 15679, 2458, 346}
952:1	$0, 0, 0, 0, \frac{30}{3049}\sqrt{473}e^{12}, \frac{2}{3049}\sqrt{210485}e^{13}, \frac{2}{3049}\sqrt{231297}e^{23}, \frac{20}{3049}\sqrt{4730}e^{15}, \frac{132}{3049}\sqrt{43}e^{25}$	$(-\frac{61}{3049}, -\frac{17}{3049}, \frac{807}{3049}, -\frac{1007}{3049}, -\frac{78}{3049}, \frac{746}{3049}, \frac{790}{3049}, -\frac{139}{3049}, -\frac{95}{3049})$ $+\frac{24}{3049}\sqrt{4730}e^3 \otimes e_8 + \frac{4}{3049}\sqrt{154671}e^1 \otimes e_4$	{12678, 1357, 245789, 34679}
952:1	$0, 0, 0, 0, \frac{2}{1873}\sqrt{4587}e^{12}, \frac{1}{1873}\sqrt{35306}e^{13}, \frac{6}{1873}\sqrt{5421}e^{23}, \frac{2}{1873}\sqrt{50318}e^{15}, \frac{2}{1873}\sqrt{29607}e^{25}$	$(\frac{110}{1873}, -\frac{194}{1873}, \frac{165}{1873}, \frac{148}{1873}, -\frac{84}{1873}, \frac{275}{1873}, -\frac{29}{1873}, \frac{26}{1873}, -\frac{278}{1873})$ $+\frac{1}{1873}\sqrt{244362}e^1 \otimes e_7 + \frac{6}{1873}\sqrt{6533}e^3 \otimes e_8$	{245789, 25789, 34679, 3679}
952:1	$0, 0, 0, 0, \frac{22}{149}\sqrt{3}e^{12}, \frac{6}{149}\sqrt{165}e^{13}, \frac{2}{149}\sqrt{33}e^{23}, \frac{2}{149}\sqrt{66}e^{15}, \frac{4}{149}\sqrt{231}e^{25}$	$(\frac{21}{149}, -\frac{23}{149}, \frac{41}{149}, -\frac{45}{149}, -\frac{2}{149}, \frac{62}{149}, \frac{18}{149}, \frac{19}{149}, -\frac{25}{149})$ $+\frac{2}{149}\sqrt{2046}e^1 \otimes e_4 + \frac{1}{149}\sqrt{2310}e^3 \otimes e_9$	{126789, 1569, 234568, 3467}
952:1	$0, 0, 0, 0, \frac{550}{2209}\sqrt{3}e^{12}, \frac{100}{2209}\sqrt{33}e^{13}, \frac{50}{2209}\sqrt{341}e^{23}, \frac{50}{2209}\sqrt{462}e^{15}, \frac{100}{2209}\sqrt{11}e^{25}$	$(\frac{605}{2209}, -\frac{460}{2209}, -\frac{185}{2209}, \frac{935}{2209}, \frac{145}{2209}, \frac{420}{2209}, -\frac{645}{2209}, \frac{750}{2209}, -\frac{315}{2209})$ $+\frac{350}{2209}\sqrt{26}e^1 \otimes e_7 + \frac{50}{2209}\sqrt{647}e^4 \otimes e_9$	{12389, 1569, 24578, 3467}
952:1	$0, 0, 0, 0, \frac{2}{3529}\sqrt{297755}e^{12}, \frac{10}{3529}\sqrt{4633}e^{13}, \frac{4}{3529}\sqrt{120910}e^{23}, \frac{4}{3529}\sqrt{206790}e^{15}, \frac{2}{3529}\sqrt{371770}e^{25}$	$(\frac{446}{3529}, -\frac{379}{3529}, -\frac{305}{3529}, \frac{1643}{3529}, \frac{67}{3529}, \frac{141}{3529}, -\frac{684}{3529}, \frac{513}{3529}, -\frac{312}{3529})$ $+\frac{2}{3529}\sqrt{1065590}e^1 \otimes e_7 + \frac{2}{3529}\sqrt{732805}e^4 \otimes e_8$	{12368, 145, 256789, 3479}
952:2	$0, 0, 0, 0, \frac{13}{415}\sqrt{22}e^{12}, \frac{52}{415}\sqrt{2}e^{13}, \frac{13}{415}\sqrt{266}e^{34}, \frac{52}{415}\sqrt{6}e^{15}, \frac{104}{415}\sqrt{2}e^{25}$	$(-\frac{26}{415}, -\frac{26}{415}, \frac{91}{415}, \frac{91}{415}, -\frac{52}{415}, \frac{13}{83}, \frac{182}{415}, -\frac{78}{415}, -\frac{78}{415})$ $+\frac{13}{415}\sqrt{382}e^3 \otimes e_9 + \frac{13}{83}\sqrt{14}e^4 \otimes e_8$	{12689, 145679, 235678, 346}
952:2	$0, 0, 0, 0, \frac{10}{703}\sqrt{1177}e^{12}, \frac{110}{703}\sqrt{19}e^{13}, \frac{40}{703}\sqrt{209}e^{34}, \frac{20}{703}\sqrt{902}e^{15}, \frac{60}{703}\sqrt{22}e^{25}$	$(-\frac{6}{37}, \frac{77}{703}, \frac{17}{703}, \frac{21}{37}, -\frac{1}{19}, -\frac{97}{703}, \frac{416}{703}, -\frac{151}{703}, \frac{40}{703})$ $+\frac{10}{703}\sqrt{6501}e^4 \otimes e_8$	{123678, 128, 13456, 1457, 235789, 25689, 349, 4679}
952:2	$0, 0, 0, 0, \frac{5}{1877}\sqrt{12386}e^{12}, \frac{1}{1877}\sqrt{343430}e^{13}, \frac{2}{1877}\sqrt{60241}e^{34}, \frac{2}{1877}\sqrt{77131}e^{15}, \frac{1}{1877}\sqrt{807342}e^{25}$	$(-\frac{106}{1877}, \frac{138}{1877}, -\frac{319}{1877}, \frac{733}{1877}, \frac{32}{1877}, -\frac{425}{1877}, \frac{414}{1877}, -\frac{74}{1877}, \frac{170}{1877})$ $+\frac{2}{1877}\sqrt{261795}e^2 \otimes e_6 + \frac{3}{1877}\sqrt{93458}e^4 \otimes e_9$	{12379, 15689, 2457, 3468}
952:2	$0, 0, 0, 0, \frac{2}{109}\sqrt{110}e^{12}, \frac{2}{109}\sqrt{22}e^{13}, \frac{1}{109}\sqrt{770}e^{34}, \frac{11}{109}\sqrt{2}e^{15}, \frac{4}{109}\sqrt{55}e^{25}$	$(-\frac{2}{109}, \frac{4}{109}, \frac{17}{109}, -\frac{24}{109}, \frac{2}{109}, \frac{15}{109}, -\frac{7}{109}, 0, \frac{6}{109})$ $+\frac{1}{109}\sqrt{1166}e^2 \otimes e_7 + \frac{3}{109}\sqrt{110}e^3 \otimes e_9$	{1269, 1456789, 23456, 3678}
952:2	$0, 0, 0, 0, \frac{14}{523}\sqrt{233}e^{12}, \frac{5}{523}\sqrt{1398}e^{13}, \frac{14}{523}\sqrt{233}e^{34}, \frac{2}{523}\sqrt{11883}e^{15}, \frac{2}{523}\sqrt{1398}e^{25}$	$(\frac{94}{523}, -\frac{20}{523}, \frac{47}{523}, -\frac{186}{523}, \frac{74}{523}, \frac{141}{523}, -\frac{139}{523}, \frac{168}{523}, \frac{54}{523})$ $+\frac{1}{523}\sqrt{141198}e^1 \otimes e_7 + \frac{2}{523}\sqrt{17941}e^3 \otimes e_4$	{2356789, 245789, 3679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:2	$0, 0, 0, 0, \frac{1}{2045} \sqrt{198766e^{12}}, \frac{1}{2045} \sqrt{1124562e^{13}}, \frac{2}{2045} \sqrt{74037e^{34}},$ $\frac{1}{2045} \sqrt{548274e^{15}}, \frac{9}{2045} \sqrt{9338e^{25}}$	$(-\frac{404}{2045}, \frac{574}{2045}, \frac{311}{2045}, -\frac{356}{2045}, \frac{34}{409}, -\frac{93}{2045}, -\frac{9}{409}, -\frac{234}{2045}, \frac{744}{2045})$ $+\frac{1}{2045} \sqrt{1007170e^3} \otimes e_4 + \frac{1}{2045} \sqrt{1484742e^2} \otimes e_6$	{1239, 145689, 245, 368}
952:2	$0, 0, 0, 0, \frac{2}{1213} \sqrt{12921e^{12}}, \frac{1}{1213} \sqrt{15458e^{13}}, \frac{3}{1213} \sqrt{10030e^{34}},$ $\frac{2}{1213} \sqrt{24485e^{15}}, \frac{1}{1213} \sqrt{23010e^{25}}$	$(\frac{23}{1213}, \frac{1}{1213}, \frac{165}{1213}, -\frac{260}{1213}, \frac{24}{1213}, \frac{188}{1213}, -\frac{95}{1213}, \frac{47}{1213}, \frac{25}{1213})$ $+\frac{20}{1213} \sqrt{354e^1} \otimes e_7 + \frac{3}{1213} \sqrt{12862e^3} \otimes e_8$	{1268, 1345, 245789, 3679}
952:2	$0, 0, 0, 0, \frac{4}{3559} \sqrt{70015e^{12}}, \frac{4}{3559} \sqrt{66062e^{13}}, \frac{4}{3559} \sqrt{101505e^{34}},$ $\frac{4}{3559} \sqrt{51523e^{15}}, \frac{8}{3559} \sqrt{7705e^{25}}$	$(-\frac{457}{3559}, \frac{644}{3559}, -\frac{158}{3559}, \frac{266}{3559}, \frac{187}{3559}, -\frac{615}{3559}, \frac{108}{3559}, -\frac{270}{3559}, \frac{831}{3559})$ $+\frac{4}{3559} \sqrt{119126e^2} \otimes e_7 + \frac{4}{3559} \sqrt{94470e^4} \otimes e_8$	{1289, 14579, 2568, 467}
952:2	$0, 0, 0, 0, \frac{1}{509} \sqrt{27118e^{12}}, \frac{1}{509} \sqrt{17135e^{13}}, \frac{1}{509} \sqrt{44849e^{34}},$ $\frac{1}{509} \sqrt{28310e^{15}}, \frac{2}{509} \sqrt{894e^{25}}$	$(\frac{87}{509}, -\frac{20}{509}, -\frac{149}{509}, \frac{87}{509}, \frac{67}{509}, -\frac{62}{509}, -\frac{62}{509}, \frac{154}{509}, \frac{47}{509})$ $-\frac{1}{509} \sqrt{53193e^4} \otimes e_6 + \frac{1}{509} \sqrt{80907e^1} \otimes e_7$	{12348, 1268, 1345, 156, 2356789, 245789, 3679, 479}
952:2	$0, 0, 0, 0, \frac{2}{1415} \sqrt{156926e^{12}}, \frac{1}{1415} \sqrt{1000658e^{13}}, \frac{1}{1415} \sqrt{181382e^{34}},$ $\frac{1}{1415} \sqrt{564526e^{15}}, \frac{2}{1415} \sqrt{287358e^{25}}$	$(-\frac{298}{1415}, \frac{543}{1415}, -\frac{178}{1415}, \frac{313}{1415}, \frac{49}{283}, -\frac{476}{1415}, \frac{27}{283}, -\frac{53}{1415}, \frac{788}{1415})$ $+\frac{1}{1415} \sqrt{2427258e^2} \otimes e_6$	{123479, 1239, 145689, 156789, 245, 257, 34678, 368}
952:2	$0, 0, 0, 0, \frac{4}{499} \sqrt{6573e^{12}}, \frac{1}{499} \sqrt{3130e^{13}}, \frac{4}{499} \sqrt{6573e^{34}}, \frac{2}{499} \sqrt{27857e^{15}},$ $\frac{2}{499} \sqrt{4695e^{25}}$	$(\frac{158}{499}, -\frac{50}{499}, -\frac{75}{499}, -\frac{80}{499}, \frac{108}{499}, \frac{83}{499}, -\frac{155}{499}, \frac{266}{499}, \frac{58}{499})$ $+\frac{1}{499} \sqrt{257286e^1} \otimes e_7$	{123468, 128, 13456, 15, 235789, 2456789, 379, 4679}
952:2	$0, 0, 0, 0, \frac{2}{4801} \sqrt{123190e^{12}}, \frac{2}{4801} \sqrt{84293e^{13}}, \frac{6}{4801} \sqrt{20370e^{34}},$ $\frac{2}{4801} \sqrt{10379e^{15}}, \frac{4}{4801} \sqrt{39673e^{25}}$	$(\frac{152}{4801}, \frac{35}{4801}, -\frac{575}{4801}, \frac{416}{4801}, \frac{187}{4801}, -\frac{423}{4801}, -\frac{159}{4801}, \frac{339}{4801}, \frac{222}{4801})$ $+\frac{2}{4801} \sqrt{242015e^2} \otimes e_7 + \frac{4}{4801} \sqrt{45105e^4} \otimes e_9$	{129, 1356789, 2345, 4678}
952:2	$0, 0, 0, 0, \frac{1}{509} \sqrt{27118e^{12}}, \frac{1}{509} \sqrt{17135e^{13}}, \frac{1}{509} \sqrt{44849e^{34}},$ $\frac{1}{509} \sqrt{28310e^{15}}, \frac{2}{509} \sqrt{894e^{25}}$	$(\frac{87}{509}, -\frac{20}{509}, -\frac{149}{509}, \frac{87}{509}, \frac{67}{509}, -\frac{62}{509}, -\frac{62}{509}, \frac{154}{509}, \frac{47}{509})$ $+\frac{1}{509} \sqrt{53193e^4} \otimes e_6 + \frac{1}{509} \sqrt{80907e^1} \otimes e_7$	{12348, 1268, 1345, 156, 2356789, 245789, 3679, 479}
952:2	$0, 0, 0, 0, \frac{1}{483} \sqrt{5910e^{12}}, \frac{2}{483} \sqrt{1182e^{13}}, \frac{1}{483} \sqrt{61858e^{34}}, \frac{8}{483} \sqrt{394e^{15}},$ $\frac{2}{483} \sqrt{6698e^{25}}$	$(-\frac{34}{483}, -\frac{26}{483}, \frac{103}{483}, \frac{37}{161}, -\frac{20}{161}, \frac{1}{7}, \frac{214}{483}, -\frac{94}{483}, -\frac{86}{483})$ $+\frac{1}{483} \sqrt{83134e^4} \otimes e_9 + \frac{1}{483} \sqrt{84710e^3} \otimes e_8$	{12689, 13579, 24578, 346}
952:2	$0, 0, 0, 0, \frac{24}{865} \sqrt{11e^{12}}, \frac{36}{865} \sqrt{33e^{13}}, \frac{24}{865} \sqrt{11e^{34}}, \frac{2}{865} \sqrt{6699e^{15}},$ $\frac{4}{865} \sqrt{2937e^{25}}$	$(-\frac{98}{865}, \frac{64}{865}, \frac{96}{865}, \frac{23}{865}, -\frac{34}{865}, -\frac{2}{865}, \frac{119}{865}, -\frac{132}{865}, \frac{6}{173})$ $+\frac{2}{865} \sqrt{13101e^2} \otimes e_6 + \frac{2}{865} \sqrt{13101e^3} \otimes e_9$	{1456789, 15689, 3468, 3678}
952:2	$0, 0, 0, 0, \frac{4}{221} \sqrt{685e^{12}}, \frac{8}{221} \sqrt{822e^{13}}, \frac{4}{221} \sqrt{685e^{34}}, \frac{6}{221} \sqrt{411e^{15}},$ $\frac{2}{221} \sqrt{2877e^{25}}$	$(-\frac{1}{17}, \frac{35}{221}, \frac{145}{221}, -\frac{129}{221}, \frac{22}{221}, \frac{132}{221}, \frac{16}{221}, \frac{9}{221}, \frac{57}{221})$ $+\frac{2}{221} \sqrt{25345e^3} \otimes e_4$	{12358, 124568, 13, 146, 23689, 2489, 3569, 459}
952:2	$0, 0, 0, 0, \frac{2}{181} \sqrt{249e^{12}}, \frac{1}{181} \sqrt{7802e^{13}}, \frac{1}{181} \sqrt{17430e^{34}}, \frac{2}{181} \sqrt{4565e^{15}},$ $\frac{1}{181} \sqrt{2490e^{25}}$	$(-\frac{49}{181}, \frac{37}{181}, \frac{105}{181}, -\frac{20}{181}, -\frac{12}{181}, \frac{56}{181}, \frac{85}{181}, -\frac{61}{181}, \frac{25}{181})$ $+\frac{3}{181} \sqrt{5478e^3} \otimes e_8$	{124678, 1268, 1345, 1357, 245789, 2589, 3469, 3679}
952:2	$0, 0, 0, 0, \frac{6}{373} \sqrt{374e^{12}}, \frac{42}{373} \sqrt{17e^{13}}, \frac{6}{373} \sqrt{255e^{34}}, \frac{3}{373} \sqrt{170e^{15}},$ $\frac{15}{373} \sqrt{102e^{25}}$	$(-\frac{102}{373}, \frac{111}{373}, \frac{60}{373}, \frac{15}{373}, \frac{9}{373}, -\frac{42}{373}, \frac{75}{373}, -\frac{93}{373}, \frac{120}{373})$ $+\frac{3}{373} \sqrt{4862e^3} \otimes e_8 + \frac{3}{373} \sqrt{6290e^2} \otimes e_6$	{24578, 258, 346, 367}
952:2	$0, 0, 0, 0, \frac{5}{289} \sqrt{542e^{12}}, \frac{1}{289} \sqrt{12466e^{13}}, \frac{4}{289} \sqrt{3523e^{34}}, \frac{4}{289} \sqrt{271e^{15}},$ $\frac{3}{289} \sqrt{5962e^{25}}$	$(\frac{58}{289}, -\frac{72}{289}, -\frac{29}{289}, \frac{185}{289}, -\frac{14}{289}, \frac{29}{289}, \frac{156}{289}, \frac{44}{289}, -\frac{86}{289})$ $+\frac{1}{289} \sqrt{128454e^4} \otimes e_9$	{123679, 129, 1356789, 1589, 2345, 24567, 348, 4678}
952:2	$0, 0, 0, 0, \frac{1}{1415} \sqrt{181382e^{12}}, \frac{1}{1415} \sqrt{1000658e^{13}}, \frac{2}{1415} \sqrt{156926e^{34}},$ $\frac{1}{1415} \sqrt{564526e^{15}}, \frac{2}{1415} \sqrt{287358e^{25}}$	$(\frac{99}{1415}, -\frac{251}{1415}, \frac{616}{1415}, -\frac{84}{1415}, -\frac{152}{1415}, \frac{143}{283}, \frac{532}{1415}, -\frac{53}{1415}, -\frac{403}{1415})$ $+\frac{1}{1415} \sqrt{2427258e^3} \otimes e_9$	{123458, 123578, 134, 137, 24789, 289, 4579, 59}
952:2	$0, 0, 0, 0, \frac{2}{23} \sqrt{5e^{12}}, \frac{4}{23} \sqrt{5e^{13}}, \frac{5}{23} \sqrt{2e^{34}}, \frac{2}{23} \sqrt{10e^{15}},$ $\frac{2}{23} \sqrt{15e^{25}}$	$(0, -\frac{2}{23}, \frac{1}{23}, \frac{6}{23}, -\frac{2}{23}, \frac{1}{23}, \frac{7}{23}, -\frac{2}{23}, -\frac{4}{23})$ $+\frac{2}{23} \sqrt{30e^3} \otimes e_9 + \frac{3}{23} \sqrt{10e^4} \otimes e_6$	{123458, 134, 24789, 4579}
952:2	$0, 0, 0, 0, \frac{20}{1583} \sqrt{869e^{12}}, \frac{1}{1583} \sqrt{207770e^{13}}, \frac{1}{1583} \sqrt{171430e^{34}},$ $\frac{1}{1583} \sqrt{108230e^{15}}, \frac{2}{1583} \sqrt{474e^{25}}$	$(\frac{74}{1583}, \frac{177}{1583}, -\frac{292}{1583}, -\frac{29}{1583}, \frac{251}{1583}, -\frac{218}{1583}, -\frac{321}{1583}, \frac{325}{1583}, \frac{428}{1583})$ $+\frac{1}{1583} \sqrt{528510e^2} \otimes e_6 + \frac{2}{1583} \sqrt{1185e^1} \otimes e_7$	{123489, 1569, 24578, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:2	$0, 0, 0, 0, \frac{10}{4561}\sqrt{5545}e^{12}, \frac{10}{4561}\sqrt{3715}e^{13}, \frac{20}{4561}\sqrt{2210}e^{34}, \frac{440}{4561}\sqrt{5}e^{15}, \frac{60}{4561}\sqrt{70}e^{25}$	$(\frac{282}{4561}, -\frac{181}{4561}, -\frac{601}{4561}, \frac{633}{4561}, \frac{101}{4561}, -\frac{319}{4561}, \frac{32}{4561}, \frac{383}{4561}, -\frac{80}{4561})$ $+\frac{10}{4561}\sqrt{9885}e^4 \otimes e_8 + \frac{600}{4561}\sqrt{3}e^1 \otimes e_7$	{128, 13456, 235789, 4679}
952:2	$0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{51}\sqrt{3}e^{13}, \frac{4}{17}\sqrt{5}e^{34}, \frac{4}{51}\sqrt{3}e^{15}, \frac{4}{51}\sqrt{42}e^{25}$	$(-\frac{1}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{6}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{7}{17})$ $+\frac{4}{51}\sqrt{102}e^2 \otimes e_7 + \frac{4}{51}\sqrt{30}e^3 \otimes e_4$	{1356789, 145789, 378, 4678}
952:2	$0, 0, 0, 0, \frac{1}{343}\sqrt{18190}e^{12}, \frac{1}{343}\sqrt{3638}e^{13}, \frac{4}{343}\sqrt{1605}e^{34}, \frac{4}{343}\sqrt{107}e^{15}, \frac{2}{343}\sqrt{4387}e^{25}$	$(-\frac{19}{343}, \frac{71}{343}, -\frac{62}{343}, \frac{26}{343}, \frac{52}{343}, -\frac{81}{343}, -\frac{36}{343}, \frac{33}{343}, \frac{123}{343})$ $+\frac{1}{343}\sqrt{22470}e^4 \otimes e_6 + \frac{1}{343}\sqrt{42158}e^2 \otimes e_7$	{1356789, 145789, 2345, 256}
952:2	$0, 0, 0, 0, \frac{1}{1583}\sqrt{171430}e^{12}, \frac{1}{1583}\sqrt{207770}e^{13}, \frac{20}{1583}\sqrt{869}e^{34}, \frac{1}{1583}\sqrt{108230}e^{15}, \frac{20}{1583}\sqrt{474}e^{25}$	$(\frac{297}{1583}, -\frac{269}{1583}, \frac{154}{1583}, -\frac{252}{1583}, \frac{28}{1583}, \frac{451}{1583}, -\frac{98}{1583}, \frac{325}{1583}, -\frac{241}{1583})$ $+\frac{1}{1583}\sqrt{528510}e^3 \otimes e_9 + \frac{22}{1583}\sqrt{1185}e^1 \otimes e_7$	{12689, 1569, 235678, 367}
952:2	$0, 0, 0, 0, \frac{4}{49}\sqrt{65}e^{12}, \frac{2}{49}\sqrt{143}e^{13}, \frac{4}{49}\sqrt{65}e^{34}, \frac{2}{49}\sqrt{13}e^{15}, \frac{8}{49}\sqrt{13}e^{25}$	$(-\frac{2}{49}, \frac{13}{49}, -\frac{1}{49}, -\frac{12}{49}, \frac{11}{49}, -\frac{3}{49}, -\frac{13}{49}, \frac{9}{49}, \frac{24}{49})$ $+\frac{2}{49}\sqrt{533}e^2 \otimes e_7$	{1234689, 1289, 135679, 14579, 23458, 2568, 37, 467}
952:2	$0, 0, 0, 0, \frac{10}{1409}\sqrt{1571}e^{12}, \frac{2}{1409}\sqrt{317342}e^{13}, \frac{1}{1409}\sqrt{1052570}e^{34}, \frac{4}{1409}\sqrt{17281}e^{15}, \frac{2}{1409}\sqrt{89547}e^{25}$	$(-\frac{12}{1409}, \frac{190}{1409}, -\frac{485}{1409}, \frac{1074}{1409}, \frac{178}{1409}, -\frac{497}{1409}, \frac{589}{1409}, \frac{166}{1409}, \frac{368}{1409})$ $+\frac{1}{1409}\sqrt{3629010}e^4 \otimes e_6$	{123458, 12568, 134, 16, 236789, 24789, 35679, 4579}
952:2	$0, 0, 0, 0, \frac{18}{1157}\sqrt{115}e^{12}, \frac{3}{1157}\sqrt{23230}e^{13}, \frac{9}{1157}\sqrt{3082}e^{34}, \frac{6}{1157}\sqrt{3289}e^{15}, \frac{3}{1157}\sqrt{782}e^{25}$	$(-\frac{233}{1157}, \frac{171}{1157}, \frac{119}{1157}, \frac{300}{1157}, -\frac{62}{1157}, -\frac{114}{1157}, \frac{419}{1157}, -\frac{295}{1157}, \frac{109}{1157})$ $+\frac{132}{1157}\sqrt{23}e^4 \otimes e_6 + \frac{3}{1157}\sqrt{51106}e^3 \otimes e_8$	{123459, 1689, 2367, 4578}
952:2	$0, 0, 0, 0, \frac{20}{199}\sqrt{14}e^{12}, \frac{2}{199}\sqrt{518}e^{13}, \frac{2}{199}\sqrt{2030}e^{34}, \frac{20}{199}\sqrt{7}e^{15}, \frac{2}{199}\sqrt{994}e^{25}$	$(-\frac{32}{199}, \frac{46}{199}, \frac{38}{199}, -\frac{48}{199}, \frac{14}{199}, \frac{6}{199}, -\frac{10}{199}, -\frac{18}{199}, \frac{60}{199})$ $+\frac{4}{199}\sqrt{749}e^2 \otimes e_7 + \frac{6}{199}\sqrt{210}e^3 \otimes e_8$	{1289, 135679, 2568, 37}
952:2	$0, 0, 0, 0, \frac{4}{89}\sqrt{65}e^{12}, \frac{4}{89}\sqrt{13}e^{13}, \frac{2}{89}\sqrt{403}e^{34}, \frac{2}{89}\sqrt{221}e^{15}, \frac{6}{89}\sqrt{13}e^{25}$	$(\frac{23}{89}, -\frac{18}{89}, -\frac{16}{89}, \frac{13}{89}, \frac{5}{89}, \frac{7}{89}, -\frac{3}{89}, \frac{28}{89}, -\frac{13}{89})$ $+\frac{2}{89}\sqrt{429}e^4 \otimes e_9 + \frac{6}{89}\sqrt{65}e^1 \otimes e_7$	{1289, 159, 245678, 467}
952:2	$0, 0, 0, 0, \frac{6}{1621}\sqrt{14289}e^{12}, \frac{2}{1621}\sqrt{33341}e^{13}, \frac{4}{1621}\sqrt{28578}e^{34}, \frac{8}{1621}\sqrt{4763}e^{15}, \frac{4}{1621}\sqrt{28578}e^{25}$	$(-\frac{334}{1621}, \frac{407}{1621}, -\frac{125}{1621}, \frac{605}{1621}, \frac{73}{1621}, -\frac{459}{1621}, \frac{480}{1621}, -\frac{261}{1621}, \frac{480}{1621})$ $+\frac{2}{1621}\sqrt{282749}e^4 \otimes e_8 + \frac{8}{1621}\sqrt{20351}e^2 \otimes e_6$	{123789, 145679, 258, 346}
952:3	$0, 0, 0, 0, \frac{14}{2137}\sqrt{1983}e^{12}, \frac{6}{2137}\sqrt{19169}e^{13}, \frac{2}{2137}\sqrt{287535}e^{14}, \frac{14}{2137}\sqrt{661}e^{15}, \frac{2}{2137}\sqrt{312653}e^{25}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{561}{2137}, -\frac{387}{2137})$ $+\frac{2}{2137}\sqrt{506987}e^3 \otimes e_8 + \frac{2}{2137}\sqrt{737015}e^4 \otimes e_9$	{124568, 134, 289, 3569}
952:3	$0, 0, 0, 0, \frac{1}{92}\sqrt{742}e^{12}, \frac{1}{276}\sqrt{10918}e^{13}, \frac{1}{276}\sqrt{10918}e^{14}, \frac{1}{276}\sqrt{7738}e^{15}, \frac{1}{138}\sqrt{795}e^{25}$	$(-\frac{53}{276}, \frac{25}{138}, \frac{29}{184}, \frac{29}{184}, -\frac{1}{92}, -\frac{19}{552}, -\frac{19}{552}, -\frac{14}{199}, \frac{47}{276})$ $+\frac{1}{276}\sqrt{13727}e^3 \otimes e_7 + \frac{1}{276}\sqrt{13727}e^4 \otimes e_6$	{123458, 125678, 134, 167, 23689, 3569}
952:3	$0, 0, 0, 0, \frac{8}{3109}\sqrt{5230}e^{12}, \frac{2}{3109}\sqrt{572685}e^{13}, \frac{2}{3109}\sqrt{161607}e^{14}, \frac{2}{3109}\sqrt{337335}e^{15}, \frac{2}{3109}\sqrt{440889}e^{25}$	$(-\frac{607}{3109}, \frac{881}{3109}, \frac{442}{3109}, \frac{3}{3109}, \frac{274}{3109}, -\frac{165}{3109}, -\frac{604}{3109}, -\frac{333}{3109}, \frac{1155}{3109})$ $+\frac{4}{3109}\sqrt{205539}e^2 \otimes e_6 + \frac{70}{3109}\sqrt{523}e^3 \otimes e_7$	{12349, 156789, 2457, 368}
952:3	$0, 0, 0, 0, \frac{1}{1241}\sqrt{264922}e^{12}, \frac{2}{1241}\sqrt{285782}e^{13}, \frac{2}{1241}\sqrt{11473}e^{14}, \frac{298}{1241}\sqrt{7}e^{15}, \frac{3}{1241}\sqrt{118902}e^{25}$	$(\frac{44}{1241}, -\frac{197}{1241}, \frac{693}{1241}, \frac{167}{1241}, -\frac{9}{73}, \frac{737}{1241}, \frac{211}{1241}, -\frac{109}{1241}, -\frac{350}{1241})$ $+\frac{2}{1241}\sqrt{548618}e^3 \otimes e_9$	{123458, 123578, 134, 137, 24789, 289, 4579, 59}
952:3	$0, 0, 0, 0, \frac{208}{3701}\sqrt{30}e^{12}, \frac{78}{3701}\sqrt{219}e^{13}, \frac{26}{3701}\sqrt{4665}e^{14}, \frac{78}{3701}\sqrt{327}e^{15}, \frac{78}{3701}\sqrt{341}e^{25}$	$(-\frac{299}{3701}, -\frac{91}{3701}, \frac{1248}{3701}, \frac{533}{3701}, -\frac{390}{3701}, \frac{949}{3701}, \frac{234}{3701}, -\frac{689}{3701}, -\frac{481}{3701})$ $+\frac{26}{3701}\sqrt{4839}e^3 \otimes e_7 + \frac{52}{3701}\sqrt{1347}e^4 \otimes e_9$	{123458, 134, 23689, 3569}
952:3	$0, 0, 0, 0, \frac{1}{257}\sqrt{23790}e^{12}, \frac{1}{257}\sqrt{31110}e^{13}, \frac{1}{257}\sqrt{8418}e^{14}, \frac{4}{257}\sqrt{915}e^{15}, \frac{3}{257}\sqrt{4026}e^{25}$	$(-\frac{46}{257}, \frac{93}{257}, -\frac{44}{257}, \frac{64}{257}, \frac{47}{257}, -\frac{90}{257}, \frac{18}{257}, \frac{1}{257}, \frac{140}{257})$ $+\frac{36}{257}\sqrt{61}e^2 \otimes e_6$	{123479, 1239, 1456789, 15689, 245, 257, 3468, 3678}
952:3	$0, 0, 0, 0, \frac{4}{4053}\sqrt{94915}e^{12}, \frac{2}{4053}\sqrt{416237}e^{13}, \frac{2}{4053}\sqrt{450499}e^{14}, \frac{2}{4053}\sqrt{698667}e^{15}, \frac{40}{4053}\sqrt{463}e^{25}$	$(\frac{131}{4053}, -\frac{37}{1351}, \frac{359}{1351}, -\frac{265}{1351}, \frac{20}{4053}, \frac{1208}{4053}, -\frac{664}{4053}, \frac{151}{4053}, -\frac{13}{579})$ $+\frac{2}{4053}\sqrt{771821}e^3 \otimes e_8 + \frac{2}{4053}\sqrt{961651}e^1 \otimes e_4$	{1268, 135, 24589, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:3	$0, 0, 0, 0, \frac{14}{3309}\sqrt{7231e^{12}}, \frac{14}{3309}\sqrt{4515e^{13}}, \frac{14}{1103}\sqrt{665e^{14}},$ $\frac{28}{3309}\sqrt{623e^{15}}, \frac{56}{3309}\sqrt{217e^{25}}$	$(\frac{175}{3309}, \frac{105}{1103}, -\frac{511}{3309}, -\frac{182}{1103}, \frac{490}{3309}, -\frac{112}{1103}, -\frac{371}{3309}, \frac{665}{3309}, \frac{805}{3309})$ $+ \frac{14}{3309}\sqrt{10255e^1} \otimes e_3 + \frac{14}{3309}\sqrt{10745e^2} \otimes e_7$	{12489, 1579, 2358, 347}
952:3	$0, 0, 0, 0, \frac{4}{4121}\sqrt{11147e^{12}}, \frac{2}{4121}\sqrt{262190e^{13}}, \frac{4}{4121}\sqrt{9263e^{14}},$ $\frac{2}{4121}\sqrt{147109e^{15}}, \frac{2}{4121}\sqrt{264702e^{25}}$	$(-\frac{472}{4121}, \frac{316}{4121}, \frac{474}{4121}, \frac{545}{4121}, -\frac{12}{317}, \frac{2}{4121}, \frac{73}{4121}, -\frac{628}{4121}, \frac{160}{4121})$ $+ \frac{2}{4121}\sqrt{288095e^3} \otimes e_9 + \frac{2}{4121}\sqrt{310389e^2} \otimes e_6$	{1456789, 15689, 3468, 3678}
952:3	$0, 0, 0, 0, \frac{4}{3189}\sqrt{73801e^{12}}, \frac{38}{3189}\sqrt{811e^{13}}, \frac{2}{3189}\sqrt{845873e^{14}},$ $\frac{2}{1063}\sqrt{5677e^{15}}, \frac{2}{3189}\sqrt{67313e^{25}}$	$(-\frac{791}{3189}, \frac{593}{3189}, \frac{488}{1063}, \frac{211}{1063}, -\frac{66}{1063}, \frac{673}{3189}, -\frac{158}{3189}, -\frac{989}{3189}, \frac{395}{3189})$ $+ \frac{2}{3189}\sqrt{1227043e^3} \otimes e_7 + \frac{2}{3189}\sqrt{276551e^4} \otimes e_8$	{12345, 1678, 2479, 35689}
952:3	$0, 0, 0, 0, \frac{6}{437}\sqrt{1335e^{12}}, \frac{4}{437}\sqrt{445e^{13}}, \frac{4}{437}\sqrt{267e^{14}}, \frac{6}{437}\sqrt{445e^{15}},$ $\frac{2}{437}\sqrt{6141e^{25}}$	$(\frac{24}{437}, \frac{48}{437}, -\frac{154}{437}, \frac{39}{437}, \frac{72}{437}, -\frac{130}{437}, \frac{63}{437}, \frac{96}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{16465e^1} \otimes e_3 + \frac{2}{437}\sqrt{17889e^2} \otimes e_6$	{14569, 15679, 3467, 36}
952:3	$0, 0, 0, 0, \frac{1}{1249}\sqrt{879726e^{12}}, \frac{8}{1249}\sqrt{9710e^{13}}, \frac{2}{1249}\sqrt{101955e^{14}},$ $\frac{18}{1249}\sqrt{2913e^{15}}, \frac{3}{1249}\sqrt{21362e^{25}}$	$(\frac{420}{1249}, -\frac{165}{1249}, -\frac{551}{1249}, -\frac{21}{1249}, \frac{255}{1249}, -\frac{131}{1249}, \frac{399}{1249}, \frac{675}{1249}, \frac{90}{1249})$ $+ \frac{2}{1249}\sqrt{514630e^1} \otimes e_3$	{1248, 1278, 145, 157, 2345789, 23589, 3479, 39}
952:3	$0, 0, 0, 0, \frac{156}{1255}\sqrt{7e^{12}}, \frac{26}{1255}\sqrt{579e^{13}}, \frac{52}{1255}\sqrt{66e^{14}}, \frac{39}{1255}\sqrt{70e^{15}},$ $\frac{117}{1255}\sqrt{14e^{25}}$	$(\frac{231}{1255}, -\frac{226}{1255}, \frac{286}{1255}, \frac{276}{1255}, \frac{1}{251}, \frac{517}{1255}, -\frac{9}{251}, \frac{236}{1255}, -\frac{221}{1255})$ $+ \frac{13}{1255}\sqrt{3246e^3} \otimes e_9 + \frac{13}{1255}\sqrt{3498e^1} \otimes e_4$	{12689, 1569, 234568, 346}
952:3	$0, 0, 0, 0, \frac{1}{519}\sqrt{30954e^{12}}, \frac{1}{173}\sqrt{7370e^{13}}, \frac{67}{519}\sqrt{6e^{14}}, \frac{2}{519}\sqrt{1407e^{15}},$ $\frac{1}{173}\sqrt{4690e^{25}}$	$(-\frac{134}{519}, \frac{49}{173}, \frac{80}{519}, \frac{122}{519}, \frac{13}{519}, -\frac{18}{173}, -\frac{4}{173}, -\frac{121}{519}, \frac{160}{519})$ $+ \frac{2}{519}\sqrt{19095e^3} \otimes e_8 + \frac{2}{519}\sqrt{27537e^2} \otimes e_6$	{2458, 2578, 346, 367}
952:3	$0, 0, 0, 0, \frac{4}{751}\sqrt{4439e^{12}}, \frac{6}{751}\sqrt{4053e^{13}}, \frac{2}{751}\sqrt{193e^{14}}, \frac{2}{751}\sqrt{17949e^{15}},$ $\frac{2}{751}\sqrt{579e^{25}}$	$(\frac{91}{751}, -\frac{5}{751}, \frac{182}{751}, -\frac{295}{751}, \frac{86}{751}, \frac{273}{751}, -\frac{204}{751}, \frac{177}{751}, \frac{81}{751})$ $+ \frac{2}{751}\sqrt{55391e^3} \otimes e_7 + \frac{4}{751}\sqrt{18335e^1} \otimes e_4$	{1238, 135, 2345689, 3469}
952:3	$0, 0, 0, 0, \frac{1}{92}\sqrt{742e^{12}}, \frac{1}{276}\sqrt{10918e^{13}}, \frac{1}{276}\sqrt{10918e^{14}}, \frac{1}{276}\sqrt{7738e^{15}},$ $\frac{1}{138}\sqrt{795e^{25}}$	$(-\frac{53}{276}, \frac{25}{138}, \frac{29}{184}, \frac{29}{184}, -\frac{92}{92}, -\frac{19}{552}, -\frac{19}{552}, -\frac{14}{69}, \frac{47}{276})$ $+ \frac{1}{276}\sqrt{13727e^3} \otimes e_7 - \frac{1}{276}\sqrt{13727e^4} \otimes e_6$	{123458, 125678, 134, 167, 23689, 3569}
952:3	$0, 0, 0, 0, \frac{1}{1237}\sqrt{35022e^{12}}, \frac{1}{1237}\sqrt{918654e^{13}}, \frac{5}{1237}\sqrt{18858e^{14}},$ $\frac{4}{1237}\sqrt{63309e^{15}}, \frac{3}{1237}\sqrt{17062e^{25}}$	$(-\frac{350}{1237}, \frac{249}{1237}, \frac{896}{1237}, \frac{380}{1237}, -\frac{101}{1237}, \frac{546}{1237}, \frac{30}{1237}, -\frac{451}{1237}, \frac{148}{1237})$ $+ \frac{12}{1237}\sqrt{19307e^3} \otimes e_8$	{124678, 1268, 13457, 135, 24589, 25789, 3469, 3679}
952:3	$0, 0, 0, 0, \frac{6}{3049}\sqrt{11258e^{12}}, \frac{2}{3049}\sqrt{210871e^{13}}, \frac{2}{3049}\sqrt{244645e^{14}},$ $\frac{2}{3049}\sqrt{286646e^{15}}, \frac{2}{3049}\sqrt{535621e^{25}}$	$(-\frac{321}{3049}, \frac{283}{3049}, \frac{1111}{3049}, -\frac{262}{3049}, -\frac{38}{3049}, \frac{790}{3049}, -\frac{583}{3049}, -\frac{359}{3049}, \frac{245}{3049})$ $+ \frac{2}{3049}\sqrt{560735e^3} \otimes e_9 + \frac{2}{3049}\sqrt{628283e^2} \otimes e_7$	{12469, 156789, 2356, 34678}
952:3	$0, 0, 0, 0, \frac{4}{307}\sqrt{2114e^{12}}, \frac{12}{307}\sqrt{453e^{13}}, \frac{12}{307}\sqrt{453e^{14}}, \frac{2}{307}\sqrt{10419e^{15}},$ $\frac{2}{307}\sqrt{5889e^{25}}$	$(-\frac{43}{307}, \frac{65}{307}, \frac{199}{307}, -\frac{60}{307}, \frac{22}{307}, \frac{156}{307}, \frac{103}{307}, -\frac{21}{307}, \frac{87}{307})$ $+ \frac{2}{307}\sqrt{39109e^3} \otimes e_7$	{123458, 125678, 134, 167, 23689, 24789, 3569, 4579}
952:4	$0, 0, 0, 0, \frac{16}{457}\sqrt{209e^{12}}, \frac{16}{457}\sqrt{85e^{13}}, \frac{16}{457}\sqrt{85e^{24}}, \frac{16}{457}\sqrt{83e^{15}},$ $\frac{16}{457}\sqrt{83e^{25}}$	$(\frac{40}{457}, \frac{40}{457}, -\frac{88}{457}, -\frac{88}{457}, \frac{80}{457}, -\frac{48}{457}, -\frac{48}{457}, \frac{120}{457}, \frac{120}{457})$ $+ \frac{16}{457}\sqrt{210e^1} \otimes e_3 + \frac{16}{457}\sqrt{210e^2} \otimes e_4$	{1289, 1459, 34}
952:4	$0, 0, 0, 0, \frac{1}{32}\sqrt{142e^{12}}, \frac{1}{64}\sqrt{2414e^{13}}, \frac{1}{64}\sqrt{923e^{24}}, \frac{1}{64}\sqrt{2414e^{15}},$ $\frac{1}{32}\sqrt{142e^{25}}$	$(-\frac{37}{128}, \frac{13}{64}, \frac{47}{64}, \frac{5}{64}, -\frac{11}{128}, \frac{57}{128}, \frac{9}{32}, -\frac{3}{8}, \frac{15}{128})$ $+ \frac{1}{64}\sqrt{7455e^3} \otimes e_8$	{123459, 123579, 146789, 1689, 2346, 2367, 4578, 58}
952:4	$0, 0, 0, 0, \frac{204}{3211}\sqrt{13e^{12}}, \frac{252}{3211}\sqrt{17e^{13}}, \frac{12}{3211}\sqrt{17119e^{24}},$ $\frac{108}{3211}\sqrt{119e^{15}}, \frac{12}{3211}\sqrt{527e^{25}}$	$(\frac{882}{3211}, -\frac{816}{3211}, -\frac{60}{3211}, \frac{474}{3211}, \frac{66}{3211}, \frac{822}{3211}, -\frac{18}{169}, \frac{948}{3211}, -\frac{750}{3211})$ $+ \frac{120}{3211}\sqrt{187e^4} \otimes e_9 + \frac{12}{3211}\sqrt{29410e^1} \otimes e_7$	{12348, 12468, 2356789, 25789}
952:4	$0, 0, 0, 0, \frac{6}{41}\sqrt{34e^{12}}, \frac{2}{41}\sqrt{170e^{13}}, \frac{2}{41}\sqrt{51e^{24}}, \frac{6}{41}\sqrt{34e^{15}},$ $\frac{2}{41}\sqrt{51e^{25}}$	$(\frac{15}{41}, -\frac{6}{41}, -\frac{19}{41}, \frac{9}{41}, \frac{9}{41}, -\frac{4}{41}, \frac{3}{41}, \frac{24}{41}, \frac{3}{41})$ $+ \frac{2}{41}\sqrt{595e^1} \otimes e_3$	{12478, 128, 145, 157, 2345789, 23589, 349, 379}
952:4	$0, 0, 0, 0, \frac{1}{3}\sqrt{2e^{12}}, \frac{1}{3}\sqrt{2e^{13}}, \frac{2}{3}e^{24}, \frac{2}{3}e^{15}, \frac{1}{3}\sqrt{2e^{25}}$	$(\frac{1}{3}, -\frac{1}{6}, 0, -\frac{1}{6}, \frac{1}{6}, \frac{1}{3}, -\frac{1}{3}, \frac{1}{2}, 0)$ $+ \frac{1}{3}\sqrt{10e^1} \otimes e_7$	{12348, 12468, 135, 156, 2356789, 25789, 34679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:4	$0, 0, 0, 0, \frac{16}{457}\sqrt{83}e^{12}, \frac{16}{457}\sqrt{85}e^{13}, \frac{16}{457}\sqrt{83}e^{24}, \frac{16}{457}\sqrt{209}e^{15}, \frac{16}{457}\sqrt{85}e^{25}$	$(\frac{40}{457}, -\frac{44}{457}, -\frac{88}{457}, \frac{164}{457}, -\frac{4}{457}, -\frac{48}{457}, \frac{120}{457}, \frac{36}{457}, -\frac{48}{457})$ $+\frac{16}{457}\sqrt{210}e^1 \otimes e_3 + \frac{16}{457}\sqrt{210}e^4 \otimes e_8$	{1278, 1457, 235789, 3479}
952:4	$0, 0, 0, 0, \frac{8}{159}\sqrt{39}e^{12}, \frac{8}{159}\sqrt{87}e^{13}, \frac{8}{159}\sqrt{87}e^{24}, \frac{8}{53}\sqrt{5}e^{15}, \frac{8}{53}\sqrt{5}e^{25}$	$(-\frac{4}{53}, -\frac{4}{53}, \frac{20}{53}, \frac{20}{53}, -\frac{8}{53}, \frac{16}{53}, \frac{16}{53}, -\frac{12}{53}, -\frac{12}{53})$ $+\frac{8}{159}\sqrt{210}e^3 \otimes e_8 + \frac{8}{159}\sqrt{210}e^4 \otimes e_9$	{12345, 14678, 589}
952:4	$0, 0, 0, 0, \frac{4}{3691}\sqrt{116545}e^{12}, \frac{4}{3691}\sqrt{177833}e^{13}, \frac{4}{3691}\sqrt{225755}e^{24}, \frac{4}{3691}\sqrt{54931}e^{15}, \frac{4}{3691}\sqrt{40913}e^{25}$	$(\frac{292}{3691}, -\frac{590}{3691}, \frac{1130}{3691}, \frac{416}{3691}, -\frac{298}{3691}, \frac{1422}{3691}, -\frac{174}{3691}, -\frac{6}{3691}, -\frac{888}{3691})$ $+\frac{12}{3691}\sqrt{34230}e^3 \otimes e_7 + \frac{28}{3691}\sqrt{4890}e^4 \otimes e_9$	{123458, 1467, 2789, 3569}
952:4	$0, 0, 0, 0, \frac{8}{53}\sqrt{5}e^{12}, \frac{8}{53}\sqrt{5}e^{13}, \frac{8}{159}\sqrt{87}e^{24}, \frac{8}{159}\sqrt{87}e^{15}, \frac{8}{159}\sqrt{39}e^{25}$	$(\frac{10}{53}, -\frac{4}{53}, -\frac{22}{53}, \frac{20}{53}, \frac{6}{53}, -\frac{12}{53}, \frac{16}{53}, \frac{16}{53}, \frac{2}{53})$ $+\frac{8}{159}\sqrt{210}e^1 \otimes e_3 + \frac{8}{159}\sqrt{210}e^4 \otimes e_6$	{12678, 156, 2356789, 369}
952:4	$0, 0, 0, 0, \frac{2}{221}\sqrt{130}e^{12}, \frac{2}{221}\sqrt{206}e^{13}, \frac{2}{221}\sqrt{206}e^{24}, \frac{2}{221}\sqrt{46}e^{15}, \frac{2}{221}\sqrt{46}e^{25}$	$(-\frac{4}{221}, -\frac{4}{221}, \frac{1}{17}, \frac{1}{17}, -\frac{8}{221}, \frac{9}{221}, \frac{9}{221}, -\frac{12}{221}, -\frac{12}{221})$ $+\frac{2}{221}\sqrt{210}e^3 \otimes e_7 + \frac{2}{221}\sqrt{210}e^4 \otimes e_6$	{1234589, 1256789, 356}
952:4	$0, 0, 0, 0, \frac{2}{41}\sqrt{51}e^{12}, \frac{6}{41}\sqrt{34}e^{13}, \frac{2}{41}\sqrt{51}e^{24}, \frac{2}{41}\sqrt{170}e^{15}, \frac{6}{41}\sqrt{34}e^{25}$	$(\frac{1}{41}, -\frac{6}{41}, \frac{23}{41}, \frac{9}{41}, -\frac{5}{41}, \frac{24}{41}, \frac{3}{41}, -\frac{4}{41}, -\frac{11}{41})$ $+\frac{2}{41}\sqrt{595}e^3 \otimes e_9$	{1234578, 12358, 134, 137, 24789, 289, 459, 579}
952:4	$0, 0, 0, 0, \frac{8}{159}\sqrt{39}e^{12}, \frac{8}{159}\sqrt{87}e^{13}, \frac{8}{159}\sqrt{87}e^{24}, \frac{8}{53}\sqrt{5}e^{15}, \frac{8}{53}\sqrt{5}e^{25}$	$(-\frac{4}{53}, -\frac{4}{53}, \frac{20}{53}, \frac{20}{53}, -\frac{8}{53}, \frac{16}{53}, \frac{16}{53}, -\frac{12}{53}, -\frac{12}{53})$ $+\frac{8}{159}\sqrt{210}e^3 \otimes e_9 + \frac{8}{159}\sqrt{210}e^4 \otimes e_8$	{12345, 138, 589}
952:4	$0, 0, 0, 0, \frac{4}{3571}\sqrt{11315}e^{12}, \frac{4}{3571}\sqrt{78621}e^{13}, \frac{4}{3571}\sqrt{103587}e^{24}, \frac{12}{3571}\sqrt{4015}e^{15}, \frac{12}{3571}\sqrt{4307}e^{25}$	$(\frac{614}{3571}, -\frac{412}{3571}, -\frac{756}{3571}, \frac{442}{3571}, \frac{202}{3571}, -\frac{142}{3571}, \frac{30}{3571}, \frac{816}{3571}, -\frac{210}{3571})$ $+\frac{12}{3571}\sqrt{13870}e^1 \otimes e_7 + \frac{8}{3571}\sqrt{28105}e^4 \otimes e_6$	{123459, 1689, 2367, 4578}
952:4	$0, 0, 0, 0, \frac{16}{457}\sqrt{85}e^{12}, \frac{16}{457}\sqrt{83}e^{13}, \frac{16}{457}\sqrt{209}e^{24}, \frac{16}{457}\sqrt{83}e^{15}, \frac{16}{457}\sqrt{85}e^{25}$	$(-\frac{44}{457}, \frac{2}{457}, \frac{164}{457}, \frac{38}{457}, -\frac{46}{457}, \frac{120}{457}, \frac{36}{457}, -\frac{90}{457}, -\frac{48}{457})$ $+\frac{16}{457}\sqrt{210}e^3 \otimes e_7 + \frac{16}{457}\sqrt{210}e^4 \otimes e_8$	{123459, 1389, 2346, 3568}
952:4	$0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{2}{17}\sqrt{10}e^{13}, \frac{2}{17}\sqrt{5}e^{24}, \frac{4}{17}\sqrt{5}e^{15}, \frac{2}{17}\sqrt{5}e^{25}$	$(\frac{5}{17}, -\frac{4}{17}, -\frac{5}{17}, \frac{7}{17}, \frac{1}{17}, 0, \frac{3}{17}, \frac{6}{17}, -\frac{3}{17})$ $+\frac{2}{17}\sqrt{30}e^4 \otimes e_9 + \frac{6}{17}\sqrt{5}e^1 \otimes e_3$	{12789, 159, 23458, 347}
952:4	$0, 0, 0, 0, \frac{108}{493}e^{12}, \frac{60}{493}\sqrt{5}e^{13}, \frac{60}{493}\sqrt{5}e^{24}, \frac{12}{493}\sqrt{37}e^{15}, \frac{12}{493}\sqrt{37}e^{25}$	$(\frac{30}{493}, \frac{30}{493}, -\frac{72}{493}, -\frac{72}{493}, \frac{60}{493}, -\frac{42}{493}, -\frac{42}{493}, \frac{90}{493}, \frac{90}{493})$ $+\frac{24}{493}\sqrt{55}e^1 \otimes e_7 + \frac{24}{493}\sqrt{55}e^2 \otimes e_6$	{123489, 1569, 3467}
952:4	$0, 0, 0, 0, \frac{2}{41}\sqrt{170}e^{12}, \frac{6}{41}\sqrt{34}e^{13}, \frac{6}{41}\sqrt{34}e^{24}, \frac{2}{41}\sqrt{51}e^{15}, \frac{6}{41}\sqrt{51}e^{25}$	$(\frac{1}{41}, \frac{1}{41}, \frac{23}{41}, -\frac{12}{41}, \frac{2}{41}, \frac{24}{41}, -\frac{11}{41}, \frac{3}{41}, \frac{3}{41})$ $+\frac{2}{41}\sqrt{595}e^3 \otimes e_7$	{1234589, 1256789, 139, 14679, 23468, 278, 356, 457}
952:4	$0, 0, 0, 0, \frac{18}{139}\sqrt{14}e^{12}, \frac{4}{139}\sqrt{70}e^{13}, \frac{2}{139}\sqrt{210}e^{24}, \frac{6}{139}\sqrt{42}e^{15}, \frac{28}{139}\sqrt{3}e^{25}$	$(\frac{15}{278}, \frac{15}{139}, -\frac{97}{278}, \frac{9}{139}, \frac{45}{278}, -\frac{41}{139}, \frac{24}{139}, \frac{30}{139}, \frac{75}{278})$ $+\frac{4}{139}\sqrt{385}e^1 \otimes e_3 + \frac{6}{139}\sqrt{210}e^2 \otimes e_6$	{145679, 1569, 3467, 36}
952:4	$0, 0, 0, 0, \frac{2}{25}e^{12}, \frac{2}{25}e^{13}, \frac{2}{25}\sqrt{10}e^{24}, \frac{2}{25}\sqrt{10}e^{15}, \frac{2}{25}\sqrt{6}e^{25}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{1}{25}, \frac{3}{25}, -\frac{1}{25}, \frac{3}{25}, 0, \frac{1}{25}, -\frac{4}{25})$ $+\frac{2}{25}\sqrt{11}e^4 \otimes e_8 + \frac{4}{25}\sqrt{3}e^1 \otimes e_7$	{2356789, 25789, 34679, 479}
952:4	$0, 0, 0, 0, \frac{12}{4099}\sqrt{3133}e^{12}, \frac{12}{4099}\sqrt{11141}e^{13}, \frac{12}{4099}\sqrt{12727}e^{24}, \frac{468}{4099}\sqrt{11}e^{15}, \frac{12}{4099}\sqrt{8047}e^{25}$	$(\frac{174}{4099}, -\frac{192}{4099}, \frac{1092}{4099}, -\frac{570}{4099}, -\frac{18}{4099}, \frac{1266}{4099}, -\frac{762}{4099}, \frac{156}{4099}, -\frac{210}{4099})$ $+\frac{24}{4099}\sqrt{5005}e^3 \otimes e_8 + \frac{60}{4099}\sqrt{1118}e^1 \otimes e_7$	{12468, 135, 25789, 34679}
952:4	$0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{18}{139}\sqrt{14}e^{13}, \frac{28}{139}\sqrt{3}e^{24}, \frac{4}{139}\sqrt{70}e^{15}, \frac{6}{139}\sqrt{42}e^{25}$	$(\frac{26}{139}, -\frac{51}{278}, \frac{31}{139}, -\frac{9}{278}, \frac{1}{278}, \frac{57}{139}, -\frac{30}{139}, \frac{53}{278}, -\frac{25}{139})$ $+\frac{4}{139}\sqrt{385}e^3 \otimes e_9 + \frac{6}{139}\sqrt{210}e^1 \otimes e_7$	{124689, 1569, 235678, 3467}
952:5	$0, 0, 0, 0, \frac{26}{1073}\sqrt{157}e^{12}, \frac{26}{1073}\sqrt{239}e^{34}, \frac{26}{1073}\sqrt{179}e^{13} + \frac{52}{1073}\sqrt{46}e^{24}, \frac{26}{1073}\sqrt{433}e^{15}, \frac{26}{1073}\sqrt{47}e^{25}$	$(\frac{65}{1073}, -\frac{169}{1073}, \frac{65}{1073}, \frac{299}{1073}, -\frac{104}{1073}, \frac{364}{1073}, \frac{130}{1073}, -\frac{39}{1073}, -\frac{273}{1073})$ $+\frac{26}{1073}\sqrt{597}e^4 \otimes e_8 + \frac{78}{1073}\sqrt{39}e^1 \otimes e_9$	{123678, 13457, 25789, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:5	$0, 0, 0, 0, \frac{26}{1073} \sqrt{157}e^{12}, \frac{26}{1073} \sqrt{239}e^{34},$ $\frac{26}{1073} \sqrt{179}e^{13} + \frac{52}{1073} \sqrt{46}e^{24}, \frac{26}{1073} \sqrt{433}e^{15}, \frac{26}{1073} \sqrt{47}e^{25}$	$(\frac{65}{1073}, -\frac{169}{1073}, \frac{65}{1073}, \frac{299}{1073}, -\frac{104}{1073}, \frac{364}{1073}, \frac{130}{1073}, -\frac{39}{1073}, -\frac{273}{1073})$ $+ \frac{26}{1073} \sqrt{597}e^4 \otimes e_8 - \frac{78}{1073} \sqrt{39}e^1 \otimes e_9$	{123678, 13457, 25789, 4679}
952:5	$0, 0, 0, 0, \frac{7}{2197} \sqrt{1038}e^{12}, \frac{49}{2197} \sqrt{33}e^{34}, \frac{7}{2197} \sqrt{437}e^{13} + \frac{7}{2197} \sqrt{894}e^{24},$ $\frac{7}{2197} \sqrt{1322}e^{15}, \frac{21}{2197} e^{25}$	$(-\frac{70}{2197}, \frac{133}{2197}, \frac{42}{2197}, -\frac{161}{2197}, \frac{63}{2197}, -\frac{119}{2197}, -\frac{28}{2197}, -\frac{7}{2197}, \frac{196}{2197})$ $+ \frac{21}{2197} \sqrt{193}e^3 \otimes e_8 + \frac{28}{2197} \sqrt{141}e^1 \otimes e_6$	{1345, 3679}
952:5	$0, 0, 0, 0, \frac{13}{415} \sqrt{22}e^{12}, \frac{13}{415} \sqrt{266}e^{34}, \frac{52}{415} e^{13} + \frac{52}{415} e^{24},$ $\frac{52}{415} \sqrt{7}e^{15}, \frac{52}{415} \sqrt{7}e^{25}$	$(-\frac{26}{415}, -\frac{26}{415}, \frac{91}{415}, \frac{91}{415}, -\frac{52}{415}, \frac{182}{415}, \frac{13}{83}, -\frac{78}{415}, -\frac{78}{415})$ $+ \frac{13}{415} \sqrt{366}e^3 \otimes e_8 - \frac{13}{415} \sqrt{366}e^4 \otimes e_9$	{12789, 13569, 347}
952:5	$0, 0, 0, 0, \frac{13}{415} \sqrt{22}e^{12}, \frac{13}{415} \sqrt{266}e^{34}, \frac{52}{415} e^{13} + \frac{52}{415} e^{24},$ $\frac{52}{415} \sqrt{7}e^{15}, \frac{52}{415} \sqrt{7}e^{25}$	$(-\frac{26}{415}, -\frac{26}{415}, \frac{91}{415}, \frac{91}{415}, -\frac{52}{415}, \frac{182}{415}, \frac{13}{83}, -\frac{78}{415}, -\frac{78}{415})$ $+ \frac{13}{415} \sqrt{366}e^3 \otimes e_8 + \frac{13}{415} \sqrt{366}e^4 \otimes e_9$	{12789, 13569, 347}
952:5	$0, 0, 0, 0, \frac{1}{37} \sqrt{110}e^{12}, \frac{1}{37} \sqrt{781}e^{34}, \frac{1}{37} \sqrt{385}e^{13} + \frac{1}{37} \sqrt{286}e^{24},$ $\frac{1}{37} \sqrt{682}e^{15}, \frac{1}{37} \sqrt{11}e^{25}$	$(-\frac{34}{111}, \frac{9}{37}, \frac{58}{111}, -\frac{1}{37}, -\frac{7}{111}, \frac{55}{111}, \frac{8}{37}, -\frac{41}{111}, \frac{20}{111})$ $+ \frac{1}{37} \sqrt{2013}e^3 \otimes e_8$	{1246789, 13459, 258, 367}
952:5	$0, 0, 0, 0, \frac{20}{713} \sqrt{182}e^{12}, \frac{10}{713} \sqrt{1054}e^{34}, \frac{80}{713} e^{13} + \frac{10}{713} \sqrt{246}e^{24},$ $\frac{10}{713} \sqrt{530}e^{15}, \frac{20}{713} \sqrt{87}e^{25}$	$(\frac{170}{713}, -\frac{120}{713}, -\frac{160}{713}, \frac{130}{713}, \frac{50}{713}, -\frac{30}{713}, \frac{10}{713}, \frac{220}{713}, -\frac{70}{713})$ $+ \frac{10}{713} \sqrt{978}e^4 \otimes e_9 + \frac{20}{713} \sqrt{381}e^1 \otimes e_6$	{1289, 245678}
952:5	$0, 0, 0, 0, \frac{13}{5461} \sqrt{2110}e^{12}, \frac{364}{5461} \sqrt{5}e^{34},$ $\frac{26}{5461} \sqrt{595}e^{13} + \frac{13}{5461} \sqrt{1542}e^{24}, \frac{26}{5461} \sqrt{1265}e^{15}, \frac{13}{5461} \sqrt{1878}e^{25}$	$(\frac{351}{5461}, -\frac{403}{5461}, -\frac{286}{5461}, \frac{468}{5461}, -\frac{52}{5461}, \frac{182}{5461}, \frac{65}{5461}, \frac{299}{5461}, -\frac{455}{5461})$ $+ \frac{13}{5461} \sqrt{5430}e^4 \otimes e_8 + \frac{26}{5461} \sqrt{1131}e^1 \otimes e_6$	{13457, 4679}
952:5	$0, 0, 0, 0, \frac{13}{415} \sqrt{22}e^{12}, \frac{13}{415} \sqrt{266}e^{34}, \frac{13}{415} \sqrt{382}e^{13} + \frac{13}{83} \sqrt{14}e^{24},$ $\frac{13}{415} \sqrt{254}e^{15}, \frac{13}{415} \sqrt{478}e^{25}$	$(-\frac{26}{415}, -\frac{26}{415}, \frac{91}{415}, \frac{91}{415}, -\frac{52}{415}, \frac{182}{415}, \frac{13}{83}, -\frac{78}{415}, -\frac{78}{415})$ $+ \frac{26}{415} \sqrt{183}e^3 \otimes e_9$	{124679, 15789, 23457, 3678}
952:5	$0, 0, 0, 0, \frac{12}{907} \sqrt{2390}e^{12}, \frac{12}{907} \sqrt{2390}e^{34},$ $\frac{4}{907} \sqrt{2390}e^{13} + \frac{2}{907} \sqrt{50907}e^{24}, \frac{4}{907} \sqrt{16730}e^{15}, \frac{6}{907} \sqrt{717}e^{25}$	$(\frac{227}{907}, -\frac{26}{907}, -\frac{252}{907}, \frac{1}{907}, \frac{201}{907}, \frac{251}{907}, -\frac{25}{907}, \frac{428}{907}, \frac{175}{907})$ $+ \frac{2}{907} \sqrt{181401}e^1 \otimes e_6$	{13459, 1579, 367, 46}
952:5	$0, 0, 0, 0, \frac{13}{5461} \sqrt{2110}e^{12}, \frac{364}{5461} \sqrt{5}e^{34},$ $\frac{65}{5461} \sqrt{122}e^{13} + \frac{468}{5461} \sqrt{3}e^{24}, \frac{13}{5461} \sqrt{370}e^{15}, \frac{52}{5461} \sqrt{222}e^{25}$	$(\frac{351}{5461}, -\frac{403}{5461}, -\frac{286}{5461}, \frac{468}{5461}, -\frac{52}{5461}, \frac{182}{5461}, \frac{65}{5461}, \frac{299}{5461}, -\frac{455}{5461})$ $+ \frac{13}{5461} \sqrt{5430}e^3 \otimes e_9 + \frac{26}{5461} \sqrt{1131}e^1 \otimes e_6$	{15789, 3678}
952:6	$0, 0, 0, 0, \frac{16}{837} \sqrt{309}e^{12}, \frac{16}{837} \sqrt{381}e^{13}, \frac{32}{837} \sqrt{78}e^{23}, \frac{16}{837} \sqrt{498}e^{15},$ $\frac{16}{837} \sqrt{255}e^{25} + \frac{16}{837} \sqrt{249}e^{34}$	$(\frac{16}{93}, -\frac{8}{279}, -\frac{8}{31}, \frac{104}{279}, \frac{40}{279}, -\frac{8}{93}, -\frac{80}{279}, \frac{88}{279}, \frac{32}{279})$ $+ \frac{16}{837} \sqrt{1326}e^1 \otimes e_7 - \frac{16}{93} \sqrt{11}e^4 \otimes e_6$	{12348, 156, 245789, 3679}
952:6	$0, 0, 0, 0, \frac{10}{53} \sqrt{3}e^{12}, \frac{5}{53} \sqrt{22}e^{13}, \frac{15}{53} \sqrt{2}e^{23}, \frac{10}{53} \sqrt{3}e^{15},$ $\frac{5}{53} \sqrt{26}e^{25} + \frac{10}{53} \sqrt{2}e^{34}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{25}{53}, \frac{5}{53}, -\frac{15}{53}, 0, 0, \frac{15}{53})$ $+ \frac{40}{53} e^2 \otimes e_6 + \frac{5}{53} \sqrt{30}e^4 \otimes e_7$	{12349, 3678}
952:6	$0, 0, 0, 0, \frac{7}{507} \sqrt{57}e^{12}, \frac{7}{507} \sqrt{615}e^{13}, \frac{7}{507} \sqrt{1005}e^{23}, \frac{7}{507} \sqrt{489}e^{15},$ $\frac{7}{507} \sqrt{291}e^{25} + \frac{7}{507} \sqrt{354}e^{34}$	$(\frac{35}{169}, -\frac{28}{169}, \frac{14}{169}, -\frac{35}{169}, \frac{7}{169}, \frac{49}{169}, -\frac{14}{169}, \frac{42}{169}, -\frac{21}{169})$ $+ \frac{14}{507} \sqrt{381}e^1 \otimes e_7 + \frac{7}{169} \sqrt{139}e^3 \otimes e_4$	{1238, 1456}
952:6	$0, 0, 0, 0, \frac{1}{133} \sqrt{6767}e^{12}, \frac{3}{133} \sqrt{1541}e^{13}, \frac{3}{133} \sqrt{1273}e^{23}, \frac{1}{133} \sqrt{3417}e^{15},$ $\frac{1}{133} \sqrt{1407}e^{25} + \frac{6}{133} \sqrt{201}e^{34}$	$(\frac{5}{133}, -\frac{4}{133}, \frac{131}{266}, -\frac{137}{266}, \frac{1}{133}, \frac{141}{266}, \frac{123}{266}, \frac{6}{133}, -\frac{3}{133})$ $+ \frac{1}{133} \sqrt{30619}e^3 \otimes e_4$	{12358, 1245678, 137, 146}
952:6	$0, 0, 0, 0, \frac{30}{1297} \sqrt{59}e^{12}, \frac{60}{1297} \sqrt{71}e^{13}, \frac{60}{1297} \sqrt{69}e^{23}, \frac{30}{1297} \sqrt{101}e^{15},$ $\frac{90}{1297} \sqrt{13}e^{25} + \frac{90}{1297} e^{34}$	$(-\frac{300}{1297}, \frac{285}{1297}, \frac{135}{1297}, \frac{135}{1297}, -\frac{15}{1297}, -\frac{165}{1297}, \frac{420}{1297}, -\frac{315}{1297}, \frac{270}{1297})$ $+ \frac{120}{1297} \sqrt{35}e^3 \otimes e_8 + \frac{30}{1297} \sqrt{593}e^2 \otimes e_6$	{2578, 3467}
952:6	$0, 0, 0, 0, \frac{550}{2209} \sqrt{3}e^{12}, \frac{100}{2209} \sqrt{247}e^{13}, \frac{100}{2209} \sqrt{33}e^{23},$ $\frac{150}{2209} \sqrt{67}e^{15}, \frac{50}{2209} \sqrt{1109}e^{25} + \frac{50}{2209} \sqrt{647}e^{34}$	$(-\frac{460}{2209}, \frac{605}{2209}, -\frac{185}{2209}, \frac{935}{2209}, \frac{145}{2209}, -\frac{645}{2209}, \frac{420}{2209}, -\frac{315}{2209}, \frac{750}{2209})$ $+ \frac{50}{2209} \sqrt{1921}e^2 \otimes e_6$	{12349, 15689, 2457, 3678}
952:6	$0, 0, 0, 0, \frac{6}{277} \sqrt{83}e^{12}, \frac{1}{277} \sqrt{42330}e^{13}, \frac{1}{277} \sqrt{54282}e^{23}, \frac{2}{277} \sqrt{8715}e^{15},$ $\frac{83}{277} \sqrt{6}e^{25} + \frac{4}{277} \sqrt{3486}e^{34}$	$(\frac{51}{277}, \frac{10}{277}, -\frac{94}{277}, \frac{165}{277}, \frac{61}{277}, -\frac{43}{277}, -\frac{84}{277}, \frac{112}{277}, \frac{71}{277})$ $+ \frac{1}{277} \sqrt{117030}e^4 \otimes e_7$	{123468, 1278, 379, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:6	$0, 0, 0, 0, \frac{4}{87}\sqrt{30}e^{12}, \frac{1}{87}\sqrt{705}e^{13}, \frac{1}{87}\sqrt{465}e^{23}, \frac{1}{87}\sqrt{30}e^{15},$ $\frac{1}{87}\sqrt{510}e^{25} + \frac{4}{87}\sqrt{30}e^{34}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{5}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{4}{29}, -\frac{4}{29}, \frac{3}{29}, \frac{3}{29})$ $-\frac{1}{29}\sqrt{145}e^2 \otimes e_6 + \frac{1}{87}\sqrt{1065}e^1 \otimes e_7$	{123489, 1569, 24578, 367}
952:6	$0, 0, 0, 0, \frac{4}{87}\sqrt{30}e^{12}, \frac{1}{87}\sqrt{705}e^{13}, \frac{1}{87}\sqrt{465}e^{23}, \frac{1}{87}\sqrt{30}e^{15},$ $\frac{1}{87}\sqrt{510}e^{25} + \frac{4}{87}\sqrt{30}e^{34}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{5}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{4}{29}, -\frac{4}{29}, \frac{3}{29}, \frac{3}{29})$ $+\frac{1}{29}\sqrt{145}e^2 \otimes e_6 + \frac{1}{87}\sqrt{1065}e^1 \otimes e_7$	{123489, 1569, 24578, 367}
952:6	$0, 0, 0, 0, \frac{5}{507}\sqrt{21}e^{12}, \frac{5}{507}\sqrt{1389}e^{13}, \frac{5}{169}\sqrt{59}e^{23}, \frac{45}{169}e^{15},$ $\frac{5}{507}\sqrt{987}e^{25} + \frac{5}{507}\sqrt{906}e^{34}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{20}{169}, -\frac{5}{169}, -\frac{5}{169}, -\frac{5}{169}, \frac{40}{169}, -\frac{30}{169}, \frac{15}{169})$ $+\frac{10}{507}\sqrt{417}e^2 \otimes e_6 + \frac{5}{507}\sqrt{1185}e^3 \otimes e_4$	{12358, 146}
952:6	$0, 0, 0, 0, \frac{2}{783}\sqrt{49305}e^{12}, \frac{2}{783}\sqrt{6555}e^{13}, \frac{2}{783}\sqrt{68685}e^{23},$ $\frac{2}{783}\sqrt{85215}e^{15}, \frac{2}{783}\sqrt{39045}e^{25} + \frac{2}{783}\sqrt{285}e^{34}$	$(\frac{32}{87}, -\frac{49}{261}, -\frac{5}{29}, \frac{43}{261}, \frac{47}{261}, \frac{17}{87}, -\frac{94}{261}, \frac{143}{261}, -\frac{2}{261})$ $+\frac{2}{783}\sqrt{186105}e^1 \otimes e_7$	{12348, 156, 245789, 3679}
952:6	$0, 0, 0, 0, \frac{4}{1161}\sqrt{183}e^{12}, \frac{4}{1161}\sqrt{15}e^{13}, \frac{16}{1161}\sqrt{78}e^{23}, \frac{4}{1161}\sqrt{1506}e^{15},$ $\frac{8}{1161}\sqrt{255}e^{25} + \frac{4}{1161}\sqrt{591}e^{34}$	$(\frac{4}{129}, -\frac{14}{387}, \frac{2}{43}, -\frac{34}{387}, -\frac{2}{387}, \frac{10}{129}, \frac{4}{387}, \frac{10}{387}, -\frac{16}{387})$ $+\frac{4}{1161}\sqrt{1497}e^1 \otimes e_7 + \frac{4}{129}\sqrt{21}e^3 \otimes e_8$	{2456789, 379}
952:6	$0, 0, 0, 0, \frac{16}{837}\sqrt{309}e^{12}, \frac{16}{837}\sqrt{381}e^{13}, \frac{32}{837}\sqrt{78}e^{23}, \frac{16}{837}\sqrt{498}e^{15},$ $\frac{16}{837}\sqrt{255}e^{25} + \frac{16}{837}\sqrt{249}e^{34}$	$(\frac{16}{93}, -\frac{8}{279}, -\frac{8}{31}, \frac{104}{279}, \frac{40}{279}, -\frac{8}{93}, -\frac{80}{279}, \frac{88}{279}, \frac{32}{279})$ $+\frac{16}{837}\sqrt{1326}e^1 \otimes e_7 + \frac{16}{93}\sqrt{11}e^4 \otimes e_6$	{12348, 156, 245789, 3679}
952:6	$0, 0, 0, 0, \frac{12}{1141}\sqrt{667}e^{12}, \frac{1}{1141}\sqrt{46690}e^{13}, \frac{1}{1141}\sqrt{556278}e^{23},$ $\frac{4}{1141}\sqrt{43355}e^{15}, \frac{16}{1141}\sqrt{2001}e^{25} + \frac{1}{1141}\sqrt{508254}e^{34}$	$(-\frac{247}{1141}, \frac{205}{1141}, \frac{54}{163}, -\frac{215}{1141}, -\frac{6}{163}, \frac{131}{1141}, \frac{583}{1141}, -\frac{289}{1141}, \frac{1}{7})$ $+\frac{5}{1141}\sqrt{52026}e^3 \otimes e_8$	{123569, 1489, 234, 568}
952:6	$0, 0, 0, 0, \frac{10}{2509}\sqrt{723}e^{12}, \frac{10}{2509}\sqrt{303}e^{13}, \frac{20}{2509}\sqrt{102}e^{23},$ $\frac{10}{2509}\sqrt{958}e^{15}, \frac{10}{2509}\sqrt{62}e^{25} + \frac{10}{2509}\sqrt{1094}e^{34}$	$(\frac{80}{2509}, -\frac{25}{2509}, -\frac{155}{2509}, \frac{185}{2509}, \frac{55}{2509}, -\frac{75}{2509}, -\frac{180}{2509}, \frac{135}{2509}, \frac{30}{2509})$ $+\frac{10}{2509}\sqrt{1051}e^4 \otimes e_8 - \frac{10}{2509}\sqrt{1230}e^1 \otimes e_9$	{128, 13456, 235789, 4679}
952:6	$0, 0, 0, 0, \frac{10}{2509}\sqrt{723}e^{12}, \frac{10}{2509}\sqrt{303}e^{13}, \frac{20}{2509}\sqrt{102}e^{23},$ $\frac{10}{2509}\sqrt{958}e^{15}, \frac{10}{2509}\sqrt{62}e^{25} + \frac{10}{2509}\sqrt{1094}e^{34}$	$(\frac{80}{2509}, -\frac{25}{2509}, -\frac{155}{2509}, \frac{185}{2509}, \frac{55}{2509}, -\frac{75}{2509}, -\frac{180}{2509}, \frac{135}{2509}, \frac{30}{2509})$ $+\frac{10}{2509}\sqrt{1051}e^4 \otimes e_8 + \frac{10}{2509}\sqrt{1230}e^1 \otimes e_9$	{128, 13456, 235789, 4679}
952:6	$0, 0, 0, 0, \frac{50}{2209}\sqrt{3}e^{12}, \frac{50}{2209}\sqrt{933}e^{13}, \frac{100}{2209}\sqrt{33}e^{23},$ $\frac{50}{2209}\sqrt{1318}e^{15}, \frac{100}{2209}\sqrt{203}e^{25} + \frac{350}{2209}\sqrt{26}e^{34}$	$(-\frac{460}{2209}, \frac{605}{2209}, -\frac{185}{2209}, \frac{935}{2209}, \frac{145}{2209}, -\frac{645}{2209}, \frac{420}{2209}, -\frac{315}{2209}, \frac{750}{2209})$ $+\frac{50}{2209}\sqrt{1921}e^4 \otimes e_8$	{1278, 134567, 23589, 469}
952:6	$0, 0, 0, 0, \frac{38}{7053}\sqrt{193}e^{12}, \frac{19}{7053}\sqrt{2410}e^{13}, \frac{38}{7053}\sqrt{1423}e^{23},$ $\frac{95}{7053}\sqrt{210}e^{15}, \frac{19}{2351}\sqrt{566}e^{25} + \frac{19}{7053}\sqrt{5306}e^{34}$	$(-\frac{551}{7053}, \frac{190}{2351}, -\frac{57}{2351}, \frac{760}{7053}, \frac{19}{7053}, -\frac{722}{7053}, \frac{133}{2351}, -\frac{532}{7053}, \frac{589}{7053})$ $+\frac{38}{7053}\sqrt{1465}e^4 \otimes e_7 + \frac{76}{7053}\sqrt{455}e^3 \otimes e_8$	{1489, 234}
952:7	$0, 0, 0, 0, \frac{90}{3581}\sqrt{286}e^{12}, \frac{315}{3581}\sqrt{22}e^{13},$ $\frac{45}{3581}\sqrt{110}e^{14} + \frac{270}{3581}\sqrt{11}e^{23}, \frac{90}{3581}\sqrt{33}e^{15}, \frac{90}{3581}\sqrt{374}e^{25}$	$(-\frac{765}{3581}, \frac{990}{3581}, -\frac{270}{3581}, \frac{1485}{3581}, \frac{225}{3581}, -\frac{1035}{3581}, \frac{720}{3581}, -\frac{540}{3581}, \frac{1215}{3581})$ $+\frac{45}{3581}\sqrt{2146}e^4 \otimes e_8 + \frac{45}{3581}\sqrt{4082}e^2 \otimes e_6$	{14569, 3467}
952:7	$0, 0, 0, 0, \frac{6}{2249}\sqrt{79831}e^{12}, \frac{6}{2249}\sqrt{38315}e^{13},$ $\frac{24}{2249}\sqrt{3395}e^{14} + \frac{6}{2249}\sqrt{5335}e^{23}, \frac{12}{2249}\sqrt{20758}e^{15}, \frac{6}{2249}\sqrt{14938}e^{25}$	$(\frac{735}{2249}, -\frac{275}{2249}, -\frac{1}{2249}, -\frac{1011}{2249}, \frac{460}{2249}, \frac{734}{2249}, -\frac{276}{2249}, \frac{1195}{2249}, \frac{185}{2249})$ $+\frac{6}{2249}\sqrt{185270}e^1 \otimes e_4$	{1268, 135, 24589, 3469}
952:7	$0, 0, 0, 0, \frac{18}{2321}\sqrt{5719}e^{12}, \frac{24}{2321}\sqrt{4085}e^{13},$ $\frac{2}{2321}\sqrt{208335}e^{14} + \frac{2}{2321}\sqrt{126635}e^{23}, \frac{6}{2321}\sqrt{27778}e^{15}, \frac{4}{2321}\sqrt{168302}e^{25}$	$(-\frac{355}{2321}, \frac{775}{2321}, -\frac{504}{2321}, \frac{626}{2321}, \frac{420}{2321}, -\frac{859}{2321}, \frac{271}{2321}, \frac{65}{2321}, \frac{1195}{2321})$ $+\frac{10}{2321}\sqrt{63726}e^2 \otimes e_6$	{1239, 15689, 257, 3678}
952:7	$0, 0, 0, 0, \frac{3}{268}\sqrt{2114}e^{12}, \frac{5}{536}\sqrt{8607}e^{13}, \frac{5}{536}\sqrt{8607}e^{14} + \frac{151}{536}\sqrt{6}e^{23},$ $\frac{1}{536}\sqrt{162174}e^{15}, \frac{1}{268}\sqrt{30351}e^{25}$	$(-\frac{35}{134}, \frac{173}{536}, -\frac{29}{1072}, \frac{597}{1072}, \frac{33}{536}, -\frac{309}{1072}, \frac{317}{1072}, -\frac{107}{536}, \frac{103}{268})$ $+\frac{1}{134}\sqrt{26274}e^4 \otimes e_6$	{134, 167, 3569, 4579}
952:7	$0, 0, 0, 0, \frac{2}{105}\sqrt{273}e^{12}, \frac{2}{105}\sqrt{65}e^{13}, \frac{8}{105}\sqrt{21}e^{14} + \frac{2}{105}\sqrt{105}e^{23},$ $\frac{2}{105}\sqrt{210}e^{15}, \frac{2}{15}\sqrt{6}e^{25}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, \frac{2}{5}, 0, \frac{1}{5}, -\frac{1}{5})$ $+\frac{2}{105}\sqrt{966}e^3 \otimes e_9 + \frac{8}{35}\sqrt{7}e^1 \otimes e_4$	{1569, 234568}
952:7	$0, 0, 0, 0, \frac{104}{1935}\sqrt{30}e^{12}, \frac{26}{1935}\sqrt{1293}e^{13},$ $\frac{13}{1935}\sqrt{2478}e^{14} + \frac{13}{1935}\sqrt{6}e^{23}, \frac{13}{387}\sqrt{138}e^{15}, \frac{26}{1935}\sqrt{894}e^{25}$	$(-\frac{26}{215}, \frac{13}{645}, \frac{39}{215}, \frac{208}{645}, -\frac{13}{129}, \frac{13}{215}, \frac{26}{129}, -\frac{143}{645}, -\frac{52}{645})$ $+\frac{13}{215}\sqrt{66}e^4 \otimes e_6 + \frac{26}{1935}\sqrt{1347}e^3 \otimes e_9$	{134, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:7	$0, 0, 0, 0, \frac{14}{2137}\sqrt{1983}e^{12}, \frac{6}{2137}\sqrt{19169}e^{13},$ $\frac{4}{2137}\sqrt{112370}e^{14} + \frac{2}{2137}\sqrt{737015}e^{23}, \frac{2}{2137}\sqrt{704626}e^{15}, \frac{2}{2137}\sqrt{424362}e^{25}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{561}{2137}, -\frac{387}{2137})$ $+ \frac{2}{2137}\sqrt{1244002}e^3 \otimes e_8$	{12359, 1689, 2346, 458}
952:7	$0, 0, 0, 0, \frac{2}{2233}\sqrt{15769}e^{12}, \frac{2}{2233}\sqrt{413633}e^{13},$ $\frac{2}{2233}\sqrt{715670}e^{14} + \frac{2}{2233}\sqrt{100679}e^{23}, \frac{4}{2233}\sqrt{214701}e^{15}, \frac{4}{2233}\sqrt{42455}e^{25}$	$(-\frac{599}{2233}, \frac{415}{2233}, \frac{629}{2233}, \frac{1643}{2233}, -\frac{184}{2233}, \frac{30}{2233}, \frac{36}{2233}, -\frac{27}{2233}, \frac{3}{2233})$ $+ \frac{2}{319}\sqrt{46094}e^4 \otimes e_8$	{1278, 145, 23589, 3479}
952:7	$0, 0, 0, 0, \frac{2}{747}\sqrt{26967}e^{12}, \frac{2}{747}\sqrt{91203}e^{13}, \frac{8}{747}\sqrt{303}e^{14} + \frac{2}{747}\sqrt{28785}e^{23},$ $\frac{2}{747}\sqrt{44238}e^{15}, \frac{2}{747}\sqrt{80598}e^{25}$	$(\frac{7}{83}, -\frac{53}{249}, \frac{39}{83}, \frac{43}{249}, -\frac{32}{249}, \frac{46}{83}, \frac{64}{249}, -\frac{11}{249}, -\frac{85}{249})$ $+ \frac{2}{747}\sqrt{192102}e^3 \otimes e_9$	{12358, 1347, 2789, 459}
952:7	$0, 0, 0, 0, \frac{14}{2137}\sqrt{1983}e^{12}, \frac{6}{2137}\sqrt{19169}e^{13},$ $\frac{2}{2137}\sqrt{794522}e^{14} + \frac{2}{2137}\sqrt{506987}e^{23}, \frac{8}{2137}\sqrt{33711}e^{15}, \frac{4}{2137}\sqrt{204910}e^{25}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{561}{2137}, -\frac{387}{2137})$ $+ \frac{2}{2137}\sqrt{1244002}e^4 \otimes e_9$	{124568, 134, 289, 3569}
952:7	$0, 0, 0, 0, \frac{7}{1185}\sqrt{3670}e^{12}, \frac{14}{237}\sqrt{30}e^{13}, \frac{7}{1185}\sqrt{2370}e^{14} + \frac{7}{1185}\sqrt{210}e^{23},$ $\frac{14}{1185}\sqrt{335}e^{15}, \frac{91}{1185}\sqrt{10}e^{25}$	$(\frac{14}{237}, \frac{7}{79}, -\frac{14}{79}, -\frac{35}{237}, \frac{35}{237}, -\frac{28}{237}, -\frac{7}{237}, \frac{49}{237}, \frac{56}{237})$ $+ \frac{7}{1185}\sqrt{5230}e^1 \otimes e_4 + \frac{7}{1185}\sqrt{5510}e^2 \otimes e_6$	{12389, 1569}
952:7	$0, 0, 0, 0, \frac{28}{2475}\sqrt{51}e^{12}, \frac{49}{2475}\sqrt{114}e^{13},$ $\frac{14}{2475}\sqrt{321}e^{14} + \frac{7}{2475}\sqrt{1434}e^{23}, \frac{7}{2475}\sqrt{2874}e^{15}, \frac{7}{2475}\sqrt{5430}e^{25}$	$(-\frac{21}{275}, \frac{28}{825}, \frac{14}{275}, \frac{133}{825}, -\frac{7}{165}, -\frac{7}{275}, \frac{14}{165}, -\frac{98}{825}, -\frac{7}{825})$ $+ \frac{7}{2475}\sqrt{6666}e^3 \otimes e_9 + \frac{7}{825}\sqrt{786}e^2 \otimes e_6$	{15689, 3678}
952:7	$0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{5}{371}\sqrt{1302}e^{13}, \frac{10}{371}\sqrt{35}e^{14} + \frac{5}{371}\sqrt{1106}e^{23},$ $\frac{5}{371}\sqrt{910}e^{15}, \frac{30}{371}\sqrt{14}e^{25}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, -\frac{5}{53}, 0, \frac{15}{53}, -\frac{15}{53}, 0)$ $+ \frac{10}{371}\sqrt{721}e^3 \otimes e_8 + \frac{5}{371}\sqrt{1806}e^4 \otimes e_6$	{1689, 458}
952:7	$0, 0, 0, 0, \frac{132}{4517}\sqrt{41}e^{12}, \frac{132}{4517}\sqrt{122}e^{13},$ $\frac{33}{4517}\sqrt{2246}e^{14} + \frac{33}{4517}\sqrt{1538}e^{23}, \frac{1188}{4517}\sqrt{2}e^{15}, \frac{66}{4517}\sqrt{1097}e^{25}$	$(-\frac{726}{4517}, \frac{561}{4517}, \frac{198}{4517}, \frac{1485}{4517}, -\frac{165}{4517}, -\frac{528}{4517}, \frac{759}{4517}, -\frac{891}{4517}, \frac{396}{4517})$ $+ \frac{33}{4517}\sqrt{3818}e^2 \otimes e_6 + \frac{33}{4517}\sqrt{4406}e^4 \otimes e_9$	{12379, 156789}
952:7	$0, 0, 0, 0, \frac{8}{159}\sqrt{39}e^{12}, \frac{8}{159}\sqrt{87}e^{13}, \frac{4}{159}\sqrt{174}e^{14} + \frac{4}{159}\sqrt{174}e^{23},$ $\frac{4}{159}\sqrt{6}e^{15}, \frac{4}{159}\sqrt{354}e^{25}$	$(-\frac{4}{53}, -\frac{4}{53}, \frac{20}{53}, \frac{20}{53}, -\frac{8}{53}, \frac{16}{53}, \frac{16}{53}, -\frac{12}{53}, -\frac{12}{53})$ $- \frac{4}{53}\sqrt{74}e^4 \otimes e_8 + \frac{52}{159}\sqrt{6}e^3 \otimes e_9$	{12345, 1378, 2479, 589}
952:7	$0, 0, 0, 0, \frac{8}{159}\sqrt{39}e^{12}, \frac{8}{159}\sqrt{87}e^{13}, \frac{4}{159}\sqrt{174}e^{14} + \frac{4}{159}\sqrt{174}e^{23},$ $\frac{4}{159}\sqrt{6}e^{15}, \frac{4}{159}\sqrt{354}e^{25}$	$(-\frac{4}{53}, -\frac{4}{53}, \frac{20}{53}, \frac{20}{53}, -\frac{8}{53}, \frac{16}{53}, \frac{16}{53}, -\frac{12}{53}, -\frac{12}{53})$ $+ \frac{4}{53}\sqrt{74}e^4 \otimes e_8 + \frac{52}{159}\sqrt{6}e^3 \otimes e_9$	{12345, 1378, 2479, 589}
952:7	$0, 0, 0, 0, \frac{132}{4517}\sqrt{41}e^{12}, \frac{132}{4517}\sqrt{122}e^{13},$ $\frac{396}{4517}\sqrt{15}e^{14} + \frac{66}{4517}\sqrt{717}e^{23}, \frac{33}{4517}\sqrt{1814}e^{15}, \frac{99}{4517}\sqrt{2}e^{25}$	$(-\frac{726}{4517}, \frac{561}{4517}, \frac{198}{4517}, \frac{1485}{4517}, -\frac{165}{4517}, -\frac{528}{4517}, \frac{759}{4517}, -\frac{891}{4517}, \frac{396}{4517})$ $+ \frac{33}{4517}\sqrt{3818}e^2 \otimes e_6 + \frac{33}{4517}\sqrt{4406}e^3 \otimes e_8$	{25789, 3679}
952:8	$0, 0, 0, 0, \frac{5}{113}\sqrt{182}e^{12}, \frac{5}{113}\sqrt{42}e^{13}, \frac{5}{113}\sqrt{182}e^{34}, \frac{15}{113}\sqrt{2}e^{25},$ $\frac{20}{113}\sqrt{11}e^{15} + \frac{10}{113}\sqrt{47}e^{23}$	$(0, \frac{15}{113}, 0, -\frac{25}{113}, \frac{15}{113}, 0, -\frac{25}{113}, \frac{30}{113}, \frac{15}{113})$ $+ \frac{15}{113}\sqrt{10}e^3 \otimes e_4 + \frac{5}{113}\sqrt{274}e^1 \otimes e_7$	{1234689, 134568}
952:8	$0, 0, 0, 0, \frac{12}{2573}\sqrt{1963}e^{12}, \frac{12}{2573}\sqrt{28690}e^{13}, \frac{6}{2573}\sqrt{114458}e^{34},$ $\frac{108}{2573}\sqrt{151}e^{25}, \frac{12}{2573}\sqrt{2114}e^{15} + \frac{6}{2573}\sqrt{69611}e^{23}$	$(-\frac{301}{2573}, \frac{540}{2573}, -\frac{602}{2573}, \frac{1815}{2573}, \frac{239}{2573}, -\frac{903}{2573}, \frac{1213}{2573}, \frac{779}{2573}, -\frac{2}{2573})$ $+ \frac{6}{2573}\sqrt{319818}e^4 \otimes e_6$	{1268, 15689, 2457, 479}
952:8	$0, 0, 0, 0, \frac{1}{1177}\sqrt{3810}e^{12}, \frac{10}{1177}\sqrt{15}e^{13}, \frac{20}{1177}\sqrt{13}e^{34}, \frac{2}{1177}\sqrt{165}e^{25},$ $\frac{2}{1177}\sqrt{1355}e^{15} + \frac{1}{1177}\sqrt{2330}e^{23}$	$(-\frac{13}{1177}, \frac{29}{1177}, -\frac{26}{1177}, \frac{8}{1177}, \frac{16}{1177}, -\frac{39}{1177}, -\frac{18}{1177}, \frac{45}{1177}, \frac{3}{1177})$ $+ \frac{1}{1177}\sqrt{4170}e^4 \otimes e_9 + \frac{1}{1177}\sqrt{6490}e^1 \otimes e_7$	{13456, 235789}
952:8	$0, 0, 0, 0, \frac{5}{697}\sqrt{1990}e^{12}, \frac{45}{697}\sqrt{10}e^{13}, \frac{20}{697}\sqrt{165}e^{34}, \frac{40}{697}\sqrt{15}e^{25},$ $\frac{5}{697}\sqrt{1670}e^{15} + \frac{20}{697}\sqrt{110}e^{23}$	$(\frac{55}{697}, -\frac{35}{697}, \frac{110}{697}, -\frac{180}{697}, \frac{20}{697}, \frac{165}{697}, -\frac{70}{697}, -\frac{15}{697}, \frac{75}{697})$ $+ \frac{10}{697}\sqrt{1045}e^1 \otimes e_7 + \frac{25}{697}\sqrt{78}e^3 \otimes e_8$	{235679, 367}
952:8	$0, 0, 0, 0, \frac{30}{2621}\sqrt{2094}e^{12}, \frac{2}{2621}\sqrt{190554}e^{13}, \frac{84}{2621}\sqrt{698}e^{34},$ $\frac{6}{2621}\sqrt{126338}e^{25}, \frac{4}{2621}\sqrt{23034}e^{15} + \frac{10}{2621}\sqrt{30363}e^{23}$	$(\frac{87}{2621}, -\frac{368}{2621}, \frac{174}{2621}, \frac{1445}{2621}, -\frac{281}{2621}, \frac{261}{2621}, \frac{1619}{2621}, -\frac{649}{2621}, -\frac{194}{2621})$ $+ \frac{66}{2621}\sqrt{2094}e^4 \otimes e_8$	{1236789, 135678, 23459, 34}
952:8	$0, 0, 0, 0, \frac{41}{7773}\sqrt{1486}e^{12}, \frac{41}{7773}\sqrt{5398}e^{13}, \frac{164}{7773}\sqrt{203}e^{34},$ $\frac{164}{7773}\sqrt{249}e^{25}, \frac{41}{7773}\sqrt{2814}e^{15} + \frac{82}{7773}\sqrt{101}e^{23}$	$(\frac{41}{2591}, -\frac{779}{7773}, \frac{82}{2591}, \frac{2050}{7773}, -\frac{656}{7773}, \frac{123}{2591}, \frac{2296}{7773}, -\frac{1435}{7773}, -\frac{533}{7773})$ $+ \frac{41}{7773}\sqrt{8198}e^3 \otimes e_8 + \frac{82}{7773}\sqrt{1501}e^4 \otimes e_6$	{24789, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:8	$0, 0, 0, 0, \frac{60}{2519}\sqrt{221}e^{12}, \frac{60}{2519}\sqrt{782}e^{13}, \frac{60}{2519}\sqrt{937}e^{34},$ $\frac{360}{2519}\sqrt{11}e^{25}, \frac{60}{2519}\sqrt{1069}e^{15} + \frac{420}{2519}\sqrt{10}e^{23}$	$(-\frac{137}{2519}, \frac{56}{2519}, -\frac{274}{2519}, \frac{1582}{2519}, -\frac{81}{2519}, -\frac{411}{2519}, \frac{1308}{2519}, -\frac{25}{2519}, -\frac{218}{2519})$ $+\frac{120}{2519}\sqrt{537}e^4 \otimes e_9$	{129, 1457, 25689, 4678}
952:8	$0, 0, 0, 0, \frac{12}{67}\sqrt{5}e^{12}, \frac{3}{67}\sqrt{230}e^{13}, \frac{3}{67}\sqrt{110}e^{34}, \frac{12}{67}\sqrt{15}e^{25},$ $\frac{12}{67}\sqrt{10}e^{15} + \frac{3}{67}\sqrt{110}e^{23}$	$(\frac{11}{67}, -\frac{17}{67}, \frac{22}{67}, -\frac{1}{67}, -\frac{6}{67}, \frac{33}{67}, \frac{21}{67}, -\frac{23}{67}, \frac{5}{67})$ $+\frac{3}{67}\sqrt{570}e^3 \otimes e_8$	{24789, 289, 4578, 58}
952:8	$0, 0, 0, 0, \frac{20}{887}\sqrt{530}e^{12}, \frac{10}{887}\sqrt{30}e^{13}, \frac{20}{887}\sqrt{530}e^{34}, \frac{60}{887}\sqrt{5}e^{25},$ $\frac{20}{887}\sqrt{515}e^{15} + \frac{10}{887}\sqrt{1955}e^{23}$	$(\frac{45}{887}, \frac{60}{887}, \frac{90}{887}, -\frac{295}{887}, \frac{105}{887}, \frac{135}{887}, -\frac{205}{887}, \frac{165}{887}, \frac{150}{887})$ $+\frac{10}{887}\sqrt{3790}e^1 \otimes e_7$	{123489, 13458, 235679, 367}
952:8	$0, 0, 0, 0, \frac{43}{5981}\sqrt{3070}e^{12}, \frac{43}{5981}\sqrt{518}e^{13}, \frac{516}{5981}\sqrt{30}e^{34},$ $\frac{86}{5981}\sqrt{739}e^{25}, \frac{172}{5981}\sqrt{11}e^{15} + \frac{172}{5981}\sqrt{30}e^{23}$	$(-\frac{473}{5981}, \frac{1333}{5981}, -\frac{946}{5981}, \frac{430}{5981}, \frac{860}{5981}, -\frac{1419}{5981}, -\frac{516}{5981}, \frac{2193}{5981}, \frac{387}{5981})$ $+\frac{1075}{5981}\sqrt{6}e^4 \otimes e_6 + \frac{43}{5981}\sqrt{6782}e^2 \otimes e_7$	{145789, 256}
952:8	$0, 0, 0, 0, \frac{10}{871}\sqrt{282}e^{12}, \frac{10}{871}\sqrt{93}e^{13}, \frac{10}{871}\sqrt{367}e^{34}, \frac{40}{871}\sqrt{3}e^{25},$ $\frac{10}{871}\sqrt{266}e^{15} + \frac{10}{871}\sqrt{323}e^{23}$	$(-\frac{25}{871}, \frac{80}{871}, -\frac{50}{871}, -\frac{25}{871}, \frac{55}{871}, -\frac{75}{871}, -\frac{75}{871}, \frac{135}{871}, \frac{30}{871})$ $-\frac{10}{871}\sqrt{255}e^4 \otimes e_6 + \frac{230}{871}e^1 \otimes e_7$	{123489, 13458, 235679, 367}
952:8	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{14}\sqrt{14}e^{13}, \frac{1}{112}\sqrt{1218}e^{34}, \frac{1}{56}\sqrt{70}e^{25},$ $\frac{1}{56}\sqrt{154}e^{15} + \frac{3}{112}\sqrt{42}e^{23}$	$(-\frac{1}{16}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{16}, -\frac{3}{16}, 0, \frac{3}{16}, 0)$ $-\frac{1}{112}\sqrt{1302}e^4 \otimes e_9 + \frac{1}{112}\sqrt{1526}e^2 \otimes e_7$	{1289, 14578, 2569, 467}
952:8	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{14}\sqrt{14}e^{13}, \frac{1}{112}\sqrt{1218}e^{34}, \frac{1}{56}\sqrt{70}e^{25},$ $\frac{1}{56}\sqrt{154}e^{15} + \frac{3}{112}\sqrt{42}e^{23}$	$(-\frac{1}{16}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{16}, -\frac{3}{16}, 0, \frac{3}{16}, 0)$ $+\frac{1}{112}\sqrt{1302}e^4 \otimes e_9 + \frac{1}{112}\sqrt{1526}e^2 \otimes e_7$	{1289, 14578, 2569, 467}
952:8	$0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{13}{1487}\sqrt{222}e^{13}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{26}{1487}\sqrt{222}e^{25}, \frac{39}{1487}\sqrt{74}e^{15} + \frac{26}{1487}\sqrt{429}e^{23}$	$(\frac{65}{1487}, -\frac{221}{1487}, \frac{130}{1487}, \frac{416}{1487}, -\frac{156}{1487}, \frac{195}{1487}, \frac{546}{1487}, -\frac{377}{1487}, -\frac{91}{1487})$ $+\frac{13}{1487}\sqrt{4098}e^3 \otimes e_8 + \frac{26}{1487}\sqrt{969}e^4 \otimes e_9$	{12345, 1379}
952:8	$0, 0, 0, 0, \frac{13}{8165}\sqrt{190}e^{12}, \frac{26}{8165}\sqrt{707}e^{13}, \frac{26}{8165}\sqrt{1743}e^{34},$ $\frac{13}{8165}\sqrt{6022}e^{25}, \frac{13}{8165}\sqrt{22}e^{15} + \frac{13}{8165}\sqrt{1758}e^{23}$	$(-\frac{221}{8165}, \frac{65}{8165}, -\frac{442}{8165}, \frac{26}{8165}, \frac{104}{8165}, -\frac{663}{8165}, \frac{156}{8165}, \frac{429}{8165}, -\frac{117}{8165})$ $+\frac{13}{8165}\sqrt{6666}e^4 \otimes e_8 + \frac{13}{8165}\sqrt{8162}e^2 \otimes e_7$	{135678, 23459}
952:8	$0, 0, 0, 0, \frac{111}{2903}\sqrt{78}e^{12}, \frac{37}{2903}\sqrt{182}e^{13}, \frac{148}{2903}\sqrt{39}e^{34},$ $\frac{148}{2903}\sqrt{39}e^{25}, \frac{148}{2903}\sqrt{26}e^{15} + \frac{37}{2903}\sqrt{1086}e^{23}$	$(-\frac{296}{2903}, \frac{481}{2903}, -\frac{592}{2903}, \frac{1258}{2903}, \frac{185}{2903}, -\frac{888}{2903}, \frac{666}{2903}, \frac{666}{2903}, -\frac{111}{2903})$ $+\frac{296}{2903}\sqrt{38}e^4 \otimes e_9 + \frac{37}{2903}\sqrt{2666}e^2 \otimes e_6$	{145678, 259}
952:8	$0, 0, 0, 0, \frac{4}{749}\sqrt{16351}e^{12}, \frac{4}{749}\sqrt{27390}e^{13}, \frac{4}{749}\sqrt{16351}e^{34}, \frac{8}{749}\sqrt{498}e^{25},$ $\frac{12}{749}\sqrt{1743}e^{15} + \frac{12}{749}\sqrt{3154}e^{23}$	$(\frac{137}{749}, -\frac{40}{749}, \frac{274}{749}, -\frac{390}{749}, \frac{97}{749}, \frac{411}{749}, -\frac{116}{749}, \frac{57}{749}, \frac{234}{749})$ $+\frac{8}{749}\sqrt{13861}e^3 \otimes e_4$	{1245689, 1468, 249, 45}
952:8	$0, 0, 0, 0, \frac{248}{6701}\sqrt{14}e^{12}, \frac{31}{6701}\sqrt{5610}e^{13}, \frac{31}{6701}\sqrt{3126}e^{34},$ $\frac{558}{6701}\sqrt{7}e^{25}, \frac{31}{6701}\sqrt{3882}e^{15} + \frac{62}{6701}\sqrt{1119}e^{23}$	$(-\frac{62}{6701}, \frac{775}{6701}, -\frac{124}{6701}, \frac{1085}{6701}, \frac{713}{6701}, -\frac{186}{6701}, -\frac{1209}{6701}, \frac{1488}{6701}, \frac{651}{6701})$ $+\frac{31}{6701}\sqrt{6690}e^2 \otimes e_6 + \frac{62}{6701}\sqrt{1501}e^3 \otimes e_4$	{146, 2489}
952:8	$0, 0, 0, 0, \frac{10}{871}\sqrt{282}e^{12}, \frac{10}{871}\sqrt{93}e^{13}, \frac{10}{871}\sqrt{367}e^{34}, \frac{40}{871}\sqrt{3}e^{25},$ $\frac{10}{871}\sqrt{266}e^{15} + \frac{10}{871}\sqrt{323}e^{23}$	$(-\frac{25}{871}, \frac{80}{871}, -\frac{50}{871}, -\frac{25}{871}, \frac{55}{871}, -\frac{75}{871}, -\frac{75}{871}, \frac{135}{871}, \frac{30}{871})$ $+\frac{10}{871}\sqrt{255}e^4 \otimes e_6 + \frac{230}{871}e^1 \otimes e_7$	{123489, 13458, 235679, 367}
952:8	$0, 0, 0, 0, \frac{82}{5645}\sqrt{442}e^{12}, \frac{41}{5645}\sqrt{1778}e^{13}, \frac{41}{5645}\sqrt{1498}e^{34},$ $\frac{82}{5645}\sqrt{1103}e^{25}, \frac{41}{5645}\sqrt{1518}e^{15} + \frac{82}{5645}\sqrt{107}e^{23}$	$(-\frac{82}{1129}, \frac{451}{5645}, -\frac{164}{1129}, \frac{2173}{5645}, \frac{41}{5645}, -\frac{246}{1129}, \frac{1353}{5645}, \frac{492}{5645}, -\frac{369}{5645})$ $+\frac{41}{5645}\sqrt{5446}e^2 \otimes e_6 + \frac{82}{5645}\sqrt{1159}e^4 \otimes e_8$	{15689, 2457}
952:8	$0, 0, 0, 0, \frac{4}{893}\sqrt{20945}e^{12}, \frac{4}{893}\sqrt{11918}e^{13}, \frac{4}{893}\sqrt{20945}e^{34},$ $\frac{8}{893}\sqrt{4189}e^{25}, \frac{4}{893}\sqrt{649}e^{15} + \frac{4}{893}\sqrt{1770}e^{23}$	$(-\frac{1}{47}, \frac{224}{893}, -\frac{2}{47}, -\frac{210}{893}, \frac{205}{893}, -\frac{3}{47}, -\frac{248}{893}, \frac{429}{893}, \frac{186}{893})$ $+\frac{8}{893}\sqrt{11033}e^2 \otimes e_7$	{1289, 14578, 2569, 467}
952:8	$0, 0, 0, 0, \frac{20}{697}\sqrt{165}e^{12}, \frac{45}{697}\sqrt{10}e^{13}, \frac{5}{697}\sqrt{1990}e^{34}, \frac{40}{697}\sqrt{15}e^{25},$ $\frac{5}{697}\sqrt{1670}e^{15} + \frac{20}{697}\sqrt{110}e^{23}$	$(-\frac{10}{697}, \frac{95}{697}, -\frac{20}{697}, -\frac{115}{697}, \frac{5}{41}, -\frac{30}{697}, -\frac{135}{697}, \frac{180}{697}, \frac{75}{697})$ $+\frac{10}{697}\sqrt{1045}e^1 \otimes e_7 + \frac{25}{697}\sqrt{78}e^2 \otimes e_6$	{123489, 367}
952:8	$0, 0, 0, 0, \frac{3}{67}\sqrt{110}e^{12}, \frac{3}{67}\sqrt{230}e^{13}, \frac{12}{67}\sqrt{5}e^{34}, \frac{12}{67}\sqrt{15}e^{25},$ $\frac{12}{67}\sqrt{10}e^{15} + \frac{3}{67}\sqrt{110}e^{23}$	$(-\frac{8}{67}, \frac{21}{67}, -\frac{16}{67}, \frac{18}{67}, \frac{13}{67}, -\frac{24}{67}, \frac{2}{67}, \frac{34}{67}, \frac{5}{67})$ $+\frac{3}{67}\sqrt{570}e^2 \otimes e_6$	{123478, 1238, 34679, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:8	$0, 0, 0, 0, \frac{23}{6605}\sqrt{1874}e^{12}, \frac{23}{6605}\sqrt{526}e^{13}, \frac{46}{6605}\sqrt{938}e^{34},$ $\frac{46}{6605}\sqrt{1126}e^{25}, \frac{23}{6605}\sqrt{1730}e^{15} + \frac{46}{6605}\sqrt{357}e^{23}$	$(\frac{299}{6605}, -\frac{23}{1321}, \frac{598}{6605}, -\frac{1242}{6605}, \frac{184}{6605}, \frac{897}{6605}, -\frac{644}{6605}, \frac{69}{6605}, \frac{483}{6605})$ $+ \frac{46}{6605}\sqrt{1577}e^2 \otimes e_7 + \frac{69}{6605}\sqrt{626}e^3 \otimes e_8$	{23456, 3679}
952:8	$0, 0, 0, 0, \frac{2}{777}\sqrt{30}e^{12}, \frac{8}{259}\sqrt{10}e^{13}, \frac{2}{777}\sqrt{30}e^{34}, \frac{4}{777}\sqrt{355}e^{25},$ $\frac{2}{777}\sqrt{1105}e^{15} + \frac{2}{777}\sqrt{730}e^{23}$	$(-\frac{2}{259}, -\frac{8}{777}, -\frac{4}{259}, \frac{61}{777}, -\frac{2}{111}, -\frac{6}{259}, \frac{7}{111}, -\frac{22}{777}, -\frac{20}{777})$ $+ \frac{38}{777}\sqrt{5}e^2 \otimes e_6 + \frac{38}{777}\sqrt{5}e^3 \otimes e_8$	{2489, 2789}
952:8	$0, 0, 0, 0, \frac{1}{14}\sqrt{30}e^{12}, \frac{1}{14}\sqrt{2}e^{13}, \frac{1}{14}\sqrt{30}e^{34}, \frac{1}{14}\sqrt{34}e^{25},$ $\frac{1}{14}\sqrt{14}e^{15} + \frac{1}{14}\sqrt{30}e^{23}$	$(\frac{1}{28}, \frac{1}{7}, \frac{1}{14}, -\frac{5}{14}, \frac{5}{28}, \frac{3}{28}, -\frac{2}{7}, \frac{9}{28}, \frac{3}{14})$ $+ \frac{1}{2}\sqrt{2}e^2 \otimes e_7 + \frac{5}{14}\sqrt{2}e^3 \otimes e_4$	{1356789, 379}
952:9	$0, 0, 0, 0, \frac{36}{503}\sqrt{57}e^{12}, \frac{18}{503}\sqrt{462}e^{13}, \frac{18}{503}\sqrt{462}e^{14}, \frac{18}{503}\sqrt{267}e^{15},$ $\frac{54}{503}\sqrt{13}e^{25} + \frac{36}{503}\sqrt{39}e^{34}$	$(-\frac{63}{503}, \frac{117}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $+ \frac{54}{503}\sqrt{141}e^3 \otimes e_7$	{123458, 125678, 134, 167, 23689, 24789, 3569, 4579}
952:9	$0, 0, 0, 0, \frac{36}{503}\sqrt{57}e^{12}, \frac{18}{503}\sqrt{462}e^{13}, \frac{18}{503}\sqrt{462}e^{14}, \frac{18}{503}\sqrt{267}e^{15},$ $\frac{54}{503}\sqrt{13}e^{25} + \frac{36}{503}\sqrt{39}e^{34}$	$(-\frac{63}{503}, \frac{117}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $- \frac{54}{503}\sqrt{141}e^3 \otimes e_7$	{123458, 125678, 134, 167, 23689, 24789, 3569, 4579}
952:9	$0, 0, 0, 0, \frac{36}{2167}\sqrt{55}e^{12}, \frac{36}{2167}\sqrt{286}e^{13}, \frac{36}{2167}\sqrt{317}e^{14},$ $\frac{72}{2167}\sqrt{149}e^{15}, \frac{36}{2167}\sqrt{417}e^{25} + \frac{36}{2167}\sqrt{851}e^{34}$	$(-\frac{486}{2167}, \frac{558}{2167}, \frac{36}{197}, \frac{234}{2167}, \frac{72}{2167}, -\frac{90}{2167}, -\frac{252}{2167}, -\frac{414}{2167}, \frac{630}{2167})$ $+ \frac{108}{2167}\sqrt{134}e^4 \otimes e_8 - \frac{108}{2167}\sqrt{85}e^3 \otimes e_7$	{1278, 13456, 23589, 4679}
952:9	$0, 0, 0, 0, \frac{36}{2167}\sqrt{55}e^{12}, \frac{36}{2167}\sqrt{286}e^{13}, \frac{36}{2167}\sqrt{317}e^{14},$ $\frac{72}{2167}\sqrt{149}e^{15}, \frac{36}{2167}\sqrt{417}e^{25} + \frac{36}{2167}\sqrt{851}e^{34}$	$(-\frac{486}{2167}, \frac{558}{2167}, \frac{36}{197}, \frac{234}{2167}, \frac{72}{2167}, -\frac{90}{2167}, -\frac{252}{2167}, -\frac{414}{2167}, \frac{630}{2167})$ $+ \frac{108}{2167}\sqrt{134}e^4 \otimes e_8 + \frac{108}{2167}\sqrt{85}e^3 \otimes e_7$	{1278, 13456, 23589, 4679}
952:9	$0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{6510}e^{13}, \frac{3}{331}\sqrt{462}e^{14}, \frac{30}{331}\sqrt{42}e^{15},$ $\frac{9}{331}\sqrt{826}e^{25} + \frac{30}{331}\sqrt{42}e^{34}$	$(-\frac{78}{331}, \frac{99}{331}, -\frac{12}{331}, \frac{132}{331}, \frac{21}{331}, -\frac{90}{331}, \frac{54}{331}, -\frac{57}{331}, \frac{120}{331})$ $+ \frac{72}{331}\sqrt{21}e^2 \otimes e_6$	{12349, 156789, 2457, 368}
952:9	$0, 0, 0, 0, \frac{60}{887}\sqrt{6}e^{12}, \frac{12}{887}\sqrt{30}e^{13}, \frac{6}{887}\sqrt{501}e^{14}, \frac{6}{887}\sqrt{1101}e^{15},$ $\frac{18}{887}\sqrt{29}e^{25} + \frac{6}{887}\sqrt{1101}e^{34}$	$(\frac{33}{887}, -\frac{27}{887}, \frac{93}{887}, -\frac{114}{887}, \frac{6}{887}, \frac{126}{887}, -\frac{81}{887}, \frac{39}{887}, -\frac{21}{887})$ $- \frac{18}{887}\sqrt{129}e^1 \otimes e_9 + \frac{18}{887}\sqrt{138}e^3 \otimes e_8$	{1268, 13457, 24589, 3679}
952:9	$0, 0, 0, 0, \frac{60}{887}\sqrt{6}e^{12}, \frac{12}{887}\sqrt{30}e^{13}, \frac{6}{887}\sqrt{501}e^{14}, \frac{6}{887}\sqrt{1101}e^{15},$ $\frac{18}{887}\sqrt{29}e^{25} + \frac{6}{887}\sqrt{1101}e^{34}$	$(\frac{33}{887}, -\frac{27}{887}, \frac{93}{887}, -\frac{114}{887}, \frac{6}{887}, \frac{126}{887}, -\frac{81}{887}, \frac{39}{887}, -\frac{21}{887})$ $+ \frac{18}{887}\sqrt{129}e^1 \otimes e_9 + \frac{18}{887}\sqrt{138}e^3 \otimes e_8$	{1268, 13457, 24589, 3679}
952:9	$0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{462}e^{13}, \frac{21}{331}\sqrt{114}e^{14}, \frac{6}{331}\sqrt{1974}e^{15},$ $\frac{9}{331}\sqrt{518}e^{25} + \frac{6}{331}\sqrt{1974}e^{34}$	$(-\frac{78}{331}, \frac{99}{331}, \frac{132}{331}, -\frac{12}{331}, \frac{21}{331}, \frac{54}{331}, -\frac{90}{331}, -\frac{57}{331}, \frac{120}{331})$ $+ \frac{72}{331}\sqrt{21}e^3 \otimes e_8$	{1268, 13457, 24589, 3679}
952:9	$0, 0, 0, 0, \frac{9}{452}\sqrt{182}e^{12}, \frac{9}{452}\sqrt{302}e^{13}, \frac{9}{452}\sqrt{302}e^{14}, \frac{9}{452}\sqrt{202}e^{15},$ $\frac{9}{226}\sqrt{15}e^{25} + \frac{9}{113}\sqrt{5}e^{34}$	$(-\frac{81}{452}, \frac{45}{226}, \frac{99}{904}, \frac{99}{904}, \frac{9}{452}, -\frac{63}{904}, -\frac{63}{904}, -\frac{18}{113}, \frac{99}{452})$ $+ \frac{27}{452}\sqrt{47}e^3 \otimes e_7 - \frac{27}{452}\sqrt{47}e^4 \otimes e_6$	{123458, 125678, 134, 167, 23689, 3569}
952:9	$0, 0, 0, 0, \frac{9}{215}\sqrt{70}e^{12}, \frac{9}{215}\sqrt{110}e^{13}, \frac{9}{215}\sqrt{82}e^{14}, \frac{18}{215}\sqrt{14}e^{15},$ $\frac{9}{215}\sqrt{42}e^{25} + \frac{18}{215}\sqrt{14}e^{34}$	$(-\frac{54}{215}, \frac{63}{215}, \frac{36}{215}, \frac{36}{215}, \frac{9}{215}, -\frac{18}{215}, -\frac{18}{215}, -\frac{9}{43}, \frac{72}{215})$ $+ \frac{72}{215}\sqrt{3}e^2 \otimes e_6 + \frac{72}{215}\sqrt{3}e^3 \otimes e_8$	{2578, 346}
952:9	$0, 0, 0, 0, \frac{36}{2167}\sqrt{55}e^{12}, \frac{72}{2167}\sqrt{230}e^{13}, \frac{36}{2167}\sqrt{317}e^{14},$ $\frac{36}{2167}\sqrt{610}e^{15}, \frac{36}{2167}\sqrt{789}e^{25} + \frac{36}{2167}\sqrt{355}e^{34}$	$(-\frac{486}{2167}, \frac{558}{2167}, \frac{36}{197}, \frac{234}{2167}, \frac{72}{2167}, -\frac{90}{2167}, -\frac{252}{2167}, -\frac{414}{2167}, \frac{630}{2167})$ $+ \frac{108}{2167}\sqrt{134}e^2 \otimes e_6 + \frac{108}{2167}\sqrt{85}e^3 \otimes e_7$	{12349, 156789, 2457, 368}
952:9	$0, 0, 0, 0, \frac{36}{2167}\sqrt{55}e^{12}, \frac{72}{2167}\sqrt{230}e^{13}, \frac{36}{2167}\sqrt{317}e^{14},$ $\frac{36}{2167}\sqrt{610}e^{15}, \frac{36}{2167}\sqrt{789}e^{25} + \frac{36}{2167}\sqrt{355}e^{34}$	$(-\frac{486}{2167}, \frac{558}{2167}, \frac{36}{197}, \frac{234}{2167}, \frac{72}{2167}, -\frac{90}{2167}, -\frac{252}{2167}, -\frac{414}{2167}, \frac{630}{2167})$ $+ \frac{108}{2167}\sqrt{134}e^2 \otimes e_6 - \frac{108}{2167}\sqrt{85}e^3 \otimes e_7$	{12349, 156789, 2457, 368}
952:9	$0, 0, 0, 0, \frac{9}{452}\sqrt{182}e^{12}, \frac{9}{452}\sqrt{302}e^{13}, \frac{9}{452}\sqrt{302}e^{14}, \frac{9}{452}\sqrt{202}e^{15},$ $\frac{9}{226}\sqrt{15}e^{25} + \frac{9}{113}\sqrt{5}e^{34}$	$(-\frac{81}{452}, \frac{45}{226}, \frac{99}{904}, \frac{99}{904}, \frac{9}{452}, -\frac{63}{904}, -\frac{63}{904}, -\frac{18}{113}, \frac{99}{452})$ $+ \frac{27}{452}\sqrt{47}e^3 \otimes e_7 + \frac{27}{452}\sqrt{47}e^4 \otimes e_6$	{123458, 125678, 134, 167, 23689, 24789, 3569, 4579}
952:9	$0, 0, 0, 0, \frac{9}{452}\sqrt{182}e^{12}, \frac{9}{452}\sqrt{302}e^{13}, \frac{9}{452}\sqrt{302}e^{14}, \frac{9}{452}\sqrt{202}e^{15},$ $\frac{9}{226}\sqrt{15}e^{25} + \frac{9}{113}\sqrt{5}e^{34}$	$(-\frac{81}{452}, \frac{45}{226}, \frac{99}{904}, \frac{99}{904}, \frac{9}{452}, -\frac{63}{904}, -\frac{63}{904}, -\frac{18}{113}, \frac{99}{452})$ $- \frac{27}{452}\sqrt{47}e^3 \otimes e_7 + \frac{27}{452}\sqrt{47}e^4 \otimes e_6$	{123458, 125678, 134, 167, 23689, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:10	$0, 0, 0, 0, \frac{4}{713}\sqrt{8034}e^{12}, \frac{4}{713}\sqrt{16377}e^{13}, \frac{4}{713}\sqrt{16377}e^{14},$ $\frac{2}{713}\sqrt{31209}e^{25}, \frac{2}{713}\sqrt{59019}e^{15} + \frac{8}{713}\sqrt{3090}e^{34}$	$(-\frac{17}{713}, \frac{5}{31}, \frac{11}{23}, -\frac{260}{713}, \frac{98}{713}, \frac{324}{713}, -\frac{277}{713}, \frac{213}{713}, \frac{81}{713})$ $+ \frac{2}{713}\sqrt{185709}e^3 \otimes e_7$	{134, 167, 23689, 24789}
952:10	$0, 0, 0, 0, \frac{1}{973}\sqrt{158}e^{12}, \frac{1}{973}\sqrt{710}e^{13}, \frac{2}{973}\sqrt{47}e^{14}, \frac{1}{973}\sqrt{822}e^{25},$ $\frac{2}{973}\sqrt{130}e^{15} + \frac{1}{973}\sqrt{366}e^{34}$	$(-\frac{5}{973}, \frac{8}{973}, \frac{12}{973}, -\frac{2}{139}, \frac{3}{973}, \frac{1}{139}, -\frac{19}{973}, \frac{11}{973}, -\frac{2}{973})$ $+ \frac{3}{973}\sqrt{94}e^2 \otimes e_6 + \frac{5}{973}\sqrt{38}e^3 \otimes e_8$	{1456789, 3679}
952:10	$0, 0, 0, 0, \frac{4}{2873}\sqrt{30673}e^{12}, \frac{2}{2873}\sqrt{864647}e^{13}, \frac{4}{2873}\sqrt{38963}e^{14},$ $\frac{2}{2873}\sqrt{1039566}e^{25}, \frac{2}{2873}\sqrt{736981}e^{15} + \frac{2}{2873}\sqrt{803301}e^{34}$	$(\frac{593}{2873}, -\frac{695}{2873}, \frac{861}{2873}, -\frac{370}{2873}, -\frac{6}{169}, \frac{1454}{2873}, \frac{223}{2873}, -\frac{797}{2873}, \frac{491}{2873})$ $+ \frac{2}{2873}\sqrt{2040998}e^3 \otimes e_8$	{12359, 1347, 2489, 578}
952:10	$0, 0, 0, 0, \frac{7}{641}\sqrt{246}e^{12}, \frac{7}{641}\sqrt{409}e^{13}, \frac{7}{641}\sqrt{409}e^{14}, \frac{7}{641}\sqrt{158}e^{25},$ $\frac{7}{641}\sqrt{394}e^{15} + \frac{7}{641}\sqrt{286}e^{34}$	$(-\frac{49}{641}, \frac{84}{641}, -\frac{7}{641}, -\frac{7}{641}, \frac{35}{641}, -\frac{56}{641}, -\frac{56}{641}, \frac{119}{641}, -\frac{14}{641})$ $+ \frac{7}{641}\sqrt{601}e^3 \otimes e_7 + \frac{7}{641}\sqrt{601}e^4 \otimes e_6$	{134, 167, 23689}
952:10	$0, 0, 0, 0, \frac{13}{2121}\sqrt{530}e^{12}, \frac{13}{2121}\sqrt{409}e^{13}, \frac{130}{2121}\sqrt{15}e^{14},$ $\frac{13}{2121}\sqrt{1291}e^{25}, \frac{26}{303}\sqrt{7}e^{15} + \frac{13}{2121}\sqrt{1235}e^{34}$	$(\frac{52}{707}, -\frac{221}{2121}, \frac{208}{2121}, -\frac{39}{707}, -\frac{65}{2121}, \frac{52}{303}, \frac{13}{707}, -\frac{286}{2121}, \frac{13}{303})$ $+ \frac{13}{2121}\sqrt{1741}e^3 \otimes e_7 + \frac{13}{2121}\sqrt{2182}e^4 \otimes e_8$	{134, 23689}
952:10	$0, 0, 0, 0, \frac{7}{641}\sqrt{246}e^{12}, \frac{7}{641}\sqrt{409}e^{13}, \frac{7}{641}\sqrt{409}e^{14}, \frac{7}{641}\sqrt{158}e^{25},$ $\frac{7}{641}\sqrt{394}e^{15} + \frac{7}{641}\sqrt{286}e^{34}$	$(-\frac{49}{641}, \frac{84}{641}, -\frac{7}{641}, -\frac{7}{641}, \frac{35}{641}, -\frac{56}{641}, -\frac{56}{641}, \frac{119}{641}, -\frac{14}{641})$ $+ \frac{7}{641}\sqrt{601}e^3 \otimes e_7 - \frac{7}{641}\sqrt{601}e^4 \otimes e_6$	{134, 167, 23689}
952:10	$0, 0, 0, 0, \frac{4}{31}\sqrt{22}e^{12}, \frac{2}{31}\sqrt{110}e^{13}, \frac{2}{31}\sqrt{33}e^{14}, \frac{4}{31}\sqrt{33}e^{25},$ $\frac{2}{31}\sqrt{55}e^{15} + \frac{2}{31}\sqrt{11}e^{34}$	$(-\frac{5}{31}, \frac{11}{31}, -\frac{6}{31}, \frac{7}{31}, \frac{6}{31}, -\frac{11}{31}, \frac{2}{31}, \frac{17}{31}, \frac{1}{31})$ $+ \frac{2}{31}\sqrt{286}e^2 \otimes e_6$	{123478, 1456789, 257, 3679}
952:10	$0, 0, 0, 0, \frac{23}{1717}\sqrt{202}e^{12}, \frac{23}{1717}\sqrt{1115}e^{13}, \frac{276}{1717}\sqrt{2}e^{14},$ $\frac{23}{1717}\sqrt{933}e^{25}, \frac{23}{1717}\sqrt{790}e^{15} + \frac{23}{1717}\sqrt{389}e^{34}$	$(-\frac{230}{1717}, \frac{437}{1717}, \frac{138}{1717}, -\frac{161}{1717}, \frac{207}{1717}, -\frac{92}{1717}, -\frac{23}{101}, \frac{644}{1717}, -\frac{23}{1717})$ $+ \frac{115}{1717}\sqrt{57}e^3 \otimes e_7 + \frac{23}{1717}\sqrt{1654}e^2 \otimes e_6$	{12348, 369}
952:11	$0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{8}{139}\sqrt{133}e^{13}, \frac{18}{139}\sqrt{14}e^{24}, \frac{2}{139}\sqrt{1162}e^{15},$ $\frac{4}{139}\sqrt{455}e^{25} + \frac{4}{139}\sqrt{385}e^{34}$	$(-\frac{51}{278}, \frac{26}{139}, -\frac{9}{278}, \frac{31}{139}, \frac{1}{278}, \frac{30}{139}, \frac{57}{139}, -\frac{25}{139}, \frac{53}{278})$ $+ \frac{14}{139}\sqrt{70}e^2 \otimes e_6$	{12349, 15689, 245, 368}
952:11	$0, 0, 0, 0, \frac{30}{1297}\sqrt{59}e^{12}, \frac{120}{1297}\sqrt{35}e^{13}, \frac{60}{1297}\sqrt{69}e^{24}, \frac{150}{1297}\sqrt{7}e^{15},$ $\frac{30}{1297}\sqrt{393}e^{25} + \frac{30}{1297}\sqrt{267}e^{34}$	$(-\frac{300}{1297}, \frac{285}{1297}, \frac{135}{1297}, \frac{135}{1297}, -\frac{15}{1297}, -\frac{165}{1297}, \frac{420}{1297}, -\frac{315}{1297}, \frac{270}{1297})$ $+ \frac{30}{1297}\sqrt{869}e^2 \otimes e_6 + \frac{60}{1297}\sqrt{71}e^3 \otimes e_8$	{12349, 15689}
952:11	$0, 0, 0, 0, \frac{18}{557}e^{12}, \frac{6}{2785}\sqrt{287}e^{13}, \frac{6}{2785}\sqrt{938}e^{24}, \frac{6}{2785}\sqrt{1322}e^{15},$ $\frac{6}{2785}\sqrt{894}e^{25} + \frac{6}{2785}\sqrt{10}e^{34}$	$(\frac{66}{2785}, -\frac{51}{2785}, -\frac{27}{557}, \frac{99}{2785}, \frac{3}{557}, -\frac{69}{2785}, \frac{48}{2785}, \frac{81}{2785}, -\frac{36}{2785})$ $+ \frac{12}{2785}\sqrt{277}e^1 \otimes e_7 + \frac{6}{2785}\sqrt{1459}e^4 \otimes e_8$	{235789, 4679}
952:11	$0, 0, 0, 0, \frac{4}{2339}\sqrt{22971}e^{12}, \frac{4}{2339}\sqrt{39767}e^{13}, \frac{4}{2339}\sqrt{12597}e^{24},$ $\frac{12}{2339}\sqrt{23959}e^{15}, \frac{84}{2339}\sqrt{247}e^{25} + \frac{4}{2339}\sqrt{219830}e^{34}$	$(-\frac{738}{2339}, \frac{788}{2339}, \frac{1288}{2339}, -\frac{450}{2339}, \frac{50}{2339}, \frac{550}{2339}, \frac{338}{2339}, -\frac{688}{2339}, \frac{838}{2339})$ $+ \frac{260}{2339}\sqrt{114}e^3 \otimes e_8$	{1268, 1345, 245789, 3679}
952:11	$0, 0, 0, 0, \frac{12}{2371}\sqrt{7141}e^{12}, \frac{4}{2371}\sqrt{98237}e^{13}, \frac{4}{2371}\sqrt{166559}e^{24},$ $\frac{4}{2371}\sqrt{141083}e^{15}, \frac{4}{2371}\sqrt{63883}e^{25} + \frac{8}{2371}\sqrt{10615}e^{34}$	$(\frac{798}{2371}, -\frac{484}{2371}, \frac{92}{2371}, -\frac{262}{2371}, \frac{314}{2371}, \frac{890}{2371}, -\frac{746}{2371}, \frac{1112}{2371}, -\frac{170}{2371})$ $+ \frac{4}{2371}\sqrt{384070}e^1 \otimes e_7$	{12468, 135, 25789, 34679}
952:11	$0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{2}{139}\sqrt{1302}e^{13}, \frac{18}{139}\sqrt{14}e^{24}, \frac{36}{139}\sqrt{7}e^{15},$ $\frac{2}{139}\sqrt{1610}e^{25} + \frac{2}{139}\sqrt{210}e^{34}$	$(-\frac{51}{278}, \frac{26}{139}, -\frac{9}{278}, \frac{31}{139}, \frac{1}{278}, -\frac{30}{139}, \frac{57}{139}, -\frac{25}{139}, \frac{53}{278})$ $+ \frac{14}{139}\sqrt{70}e^4 \otimes e_8$	{1278, 134567, 235789, 4679}
952:11	$0, 0, 0, 0, \frac{16}{785}\sqrt{37}e^{12}, \frac{144}{785}\sqrt{3}e^{13}, \frac{32}{785}\sqrt{79}e^{24}, \frac{16}{785}\sqrt{106}e^{15},$ $\frac{16}{785}\sqrt{113}e^{25} + \frac{16}{785}\sqrt{13}e^{34}$	$(\frac{136}{785}, -\frac{96}{785}, -\frac{32}{157}, \frac{104}{785}, \frac{8}{157}, -\frac{24}{785}, \frac{8}{785}, \frac{176}{785}, -\frac{56}{785})$ $+ \frac{16}{785}\sqrt{337}e^4 \otimes e_6 + \frac{48}{785}\sqrt{42}e^1 \otimes e_7$	{123459, 1689, 2367, 4578}
952:11	$0, 0, 0, 0, \frac{18}{557}e^{12}, \frac{12}{2785}\sqrt{293}e^{13}, \frac{6}{2785}\sqrt{938}e^{24}, \frac{6}{2785}\sqrt{137}e^{15},$ $\frac{6}{2785}\sqrt{565}e^{25} + \frac{18}{2785}\sqrt{91}e^{34}$	$(\frac{66}{2785}, -\frac{51}{2785}, -\frac{27}{557}, \frac{99}{2785}, \frac{3}{557}, -\frac{69}{2785}, \frac{48}{2785}, \frac{81}{2785}, -\frac{36}{2785})$ $+ \frac{12}{2785}\sqrt{277}e^1 \otimes e_7 + \frac{6}{2785}\sqrt{1459}e^2 \otimes e_6$	{12349, 15689}
952:11	$0, 0, 0, 0, \frac{16}{785}\sqrt{37}e^{12}, \frac{144}{785}\sqrt{3}e^{13}, \frac{32}{785}\sqrt{79}e^{24}, \frac{16}{785}\sqrt{106}e^{15},$ $\frac{16}{785}\sqrt{113}e^{25} + \frac{16}{785}\sqrt{13}e^{34}$	$(\frac{136}{785}, -\frac{96}{785}, -\frac{32}{157}, \frac{104}{785}, \frac{8}{157}, -\frac{24}{785}, \frac{8}{785}, \frac{176}{785}, -\frac{56}{785})$ $- \frac{16}{785}\sqrt{337}e^4 \otimes e_6 + \frac{48}{785}\sqrt{42}e^1 \otimes e_7$	{123459, 1689, 2367, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:11	$0, 0, 0, 0, \frac{22}{2573}\sqrt{190e^{12}}, \frac{22}{2573}\sqrt{138e^{13}}, \frac{22}{2573}\sqrt{901e^{24}}, \frac{22}{2573}\sqrt{862e^{15}}, \frac{22}{2573}\sqrt{815e^{25}} + \frac{110}{2573}\sqrt{35e^{34}}$	$(-\frac{11}{83}, \frac{297}{2573}, \frac{396}{2573}, -\frac{143}{2573}, -\frac{44}{2573}, \frac{55}{2573}, \frac{154}{2573}, -\frac{385}{2573}, \frac{253}{2573}) + \frac{264}{2573}\sqrt{10e^4} \otimes e_8 + \frac{44}{2573}\sqrt{235e^3} \otimes e_7$	{13689, 234}
952:11	$0, 0, 0, 0, \frac{22}{2573}\sqrt{190e^{12}}, \frac{22}{2573}\sqrt{1302e^{13}}, \frac{22}{2573}\sqrt{901e^{24}}, \frac{374}{2573}\sqrt{2e^{15}}, \frac{550}{2573}e^{25} + \frac{22}{2573}\sqrt{565e^{34}}$	$(-\frac{11}{83}, \frac{297}{2573}, \frac{396}{2573}, -\frac{143}{2573}, -\frac{44}{2573}, \frac{55}{2573}, \frac{154}{2573}, -\frac{385}{2573}, \frac{253}{2573}) + \frac{264}{2573}\sqrt{10e^2} \otimes e_6 + \frac{44}{2573}\sqrt{235e^3} \otimes e_7$	{1467, 2789}
952:11	$0, 0, 0, 0, \frac{2}{47}\sqrt{190e^{12}}, \frac{6}{47}\sqrt{38e^{13}}, \frac{38}{47}e^{24}, \frac{2}{47}\sqrt{38e^{15}}, \frac{2}{47}\sqrt{95e^{25}} + \frac{2}{47}\sqrt{95e^{34}}$	$(\frac{1}{47}, \frac{3}{47}, \frac{24}{47}, -\frac{17}{47}, \frac{4}{47}, \frac{25}{47}, -\frac{14}{47}, \frac{5}{47}, \frac{7}{47}) + \frac{4}{47}\sqrt{190e^3} \otimes e_7$	{139, 14679, 23468, 278}
952:12	$0, 0, 0, 0, \frac{42}{1723}\sqrt{101e^{12}}, \frac{21}{1723}\sqrt{406e^{13}}, \frac{42}{1723}\sqrt{211e^{34}}, \frac{42}{1723}\sqrt{118e^{15}}, \frac{42}{1723}\sqrt{127e^{14}} + \frac{42}{1723}\sqrt{51e^{25}}$	$(\frac{168}{1723}, \frac{84}{1723}, -\frac{441}{1723}, \frac{168}{1723}, \frac{252}{1723}, -\frac{273}{1723}, -\frac{273}{1723}, \frac{420}{1723}, \frac{336}{1723}) + \frac{21}{1723}\sqrt{1758e^1} \otimes e_7 + \frac{42}{1723}\sqrt{330e^4} \otimes e_6$	{12348, 1345, 245789, 479}
952:12	$0, 0, 0, 0, \frac{6}{287}\sqrt{46e^{12}}, \frac{12}{287}e^{13}, \frac{33}{287}\sqrt{2e^{34}}, \frac{3}{287}\sqrt{10e^{15}}, \frac{6}{287}\sqrt{34e^{14}} + \frac{12}{287}\sqrt{15e^{25}}$	$(\frac{18}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{24}{287}, \frac{6}{287}, \frac{3}{287}, -\frac{3}{41}, \frac{24}{287}, -\frac{6}{287}) + \frac{3}{287}\sqrt{174e^3} \otimes e_9 + \frac{9}{287}\sqrt{38e^2} \otimes e_7$	{145789, 2345}
952:12	$0, 0, 0, 0, \frac{6}{91}\sqrt{95e^{12}}, \frac{1}{91}\sqrt{114e^{13}}, \frac{6}{91}\sqrt{95e^{34}}, \frac{8}{91}\sqrt{57e^{15}}, \frac{2}{91}\sqrt{57e^{14}} + \frac{6}{91}\sqrt{19e^{25}}$	$(\frac{4}{13}, -\frac{8}{91}, -\frac{1}{7}, \frac{16}{91}, \frac{20}{91}, \frac{15}{91}, -\frac{29}{91}, \frac{48}{91}, \frac{12}{91}) + \frac{15}{91}\sqrt{38e^1} \otimes e_7$	{123468, 13456, 2456789, 4679}
952:12	$0, 0, 0, 0, \frac{3}{409}\sqrt{710e^{12}}, \frac{30}{409}\sqrt{14e^{13}}, \frac{12}{409}\sqrt{35e^{34}}, \frac{3}{409}\sqrt{970e^{15}}, \frac{3}{409}\sqrt{1010e^{14}} + \frac{6}{409}\sqrt{195e^{25}}$	$(-\frac{45}{409}, \frac{21}{409}, \frac{42}{409}, \frac{42}{409}, -\frac{24}{409}, -\frac{3}{409}, \frac{84}{409}, -\frac{69}{409}, -\frac{3}{409}) + \frac{30}{409}\sqrt{21e^3} \otimes e_9 + \frac{9}{409}\sqrt{190e^4} \otimes e_6$	{123458, 134, 24789, 4579}
952:12	$0, 0, 0, 0, \frac{60}{2519}\sqrt{221e^{12}}, \frac{60}{2519}\sqrt{782e^{13}}, \frac{60}{2519}\sqrt{937e^{34}}, \frac{60}{2519}\sqrt{1069e^{15}}, \frac{420}{2519}\sqrt{10e^{14}} + \frac{360}{2519}\sqrt{11e^{25}}$	$(-\frac{57}{229}, \frac{546}{2519}, \frac{216}{2519}, \frac{1092}{2519}, -\frac{81}{2519}, -\frac{411}{2519}, \frac{1308}{2519}, -\frac{708}{2519}, \frac{465}{2519}) + \frac{120}{2519}\sqrt{537e^4} \otimes e_8$	{13456, 1457, 349, 4679}
952:12	$0, 0, 0, 0, \frac{66}{5107}\sqrt{815e^{12}}, \frac{33}{5107}\sqrt{1966e^{13}}, \frac{66}{5107}\sqrt{415e^{34}}, \frac{132}{5107}\sqrt{58e^{15}}, \frac{66}{5107}\sqrt{383e^{14}} + \frac{198}{5107}\sqrt{61e^{25}}$	$(\frac{396}{5107}, \frac{264}{5107}, -\frac{1221}{5107}, \frac{528}{5107}, \frac{660}{5107}, -\frac{825}{5107}, -\frac{693}{5107}, \frac{1056}{5107}, \frac{924}{5107}) + \frac{1320}{5107}\sqrt{3e^2} \otimes e_6 + \frac{99}{5107}\sqrt{470e^1} \otimes e_7$	{123489, 24578}
952:12	$0, 0, 0, 0, \frac{42}{1723}\sqrt{101e^{12}}, \frac{21}{1723}\sqrt{406e^{13}}, \frac{42}{1723}\sqrt{211e^{34}}, \frac{42}{1723}\sqrt{118e^{15}}, \frac{42}{1723}\sqrt{127e^{14}} + \frac{42}{1723}\sqrt{51e^{25}}$	$(\frac{168}{1723}, \frac{84}{1723}, -\frac{441}{1723}, \frac{168}{1723}, \frac{252}{1723}, -\frac{273}{1723}, -\frac{273}{1723}, \frac{420}{1723}, \frac{336}{1723}) + \frac{21}{1723}\sqrt{1758e^1} \otimes e_7 - \frac{42}{1723}\sqrt{330e^4} \otimes e_6$	{12348, 1345, 245789, 479}
952:12	$0, 0, 0, 0, \frac{12}{1031}\sqrt{218e^{12}}, \frac{6}{1031}\sqrt{262e^{13}}, \frac{6}{1031}\sqrt{1462e^{34}}, \frac{12}{1031}\sqrt{382e^{15}}, \frac{12}{1031}\sqrt{131e^{14}} + \frac{18}{1031}\sqrt{22e^{25}}$	$(\frac{54}{1031}, -\frac{66}{1031}, \frac{114}{1031}, -\frac{132}{1031}, -\frac{12}{1031}, \frac{168}{1031}, -\frac{18}{1031}, \frac{42}{1031}, -\frac{78}{1031}) + \frac{108}{1031}\sqrt{6e^1} \otimes e_7 + \frac{6}{1031}\sqrt{1770e^3} \otimes e_8$	{1268, 3679}
952:12	$0, 0, 0, 0, \frac{9}{1243}\sqrt{5010e^{12}}, \frac{90}{1243}\sqrt{105e^{13}}, \frac{18}{1243}\sqrt{1365e^{34}}, \frac{117}{1243}\sqrt{30e^{15}}, \frac{9}{1243}\sqrt{10410e^{14}} + \frac{54}{1243}\sqrt{5e^{25}}$	$(-\frac{15}{113}, \frac{357}{1243}, -\frac{336}{1243}, \frac{714}{1243}, \frac{192}{1243}, -\frac{501}{1243}, \frac{378}{1243}, \frac{27}{1243}, \frac{549}{1243}) + \frac{27}{1243}\sqrt{3490e^4} \otimes e_6$	{123458, 134, 24789, 4579}
952:12	$0, 0, 0, 0, \frac{6}{109}\sqrt{70e^{12}}, \frac{1}{109}\sqrt{987e^{13}}, \frac{6}{109}\sqrt{70e^{34}}, \frac{5}{109}\sqrt{21e^{15}}, \frac{1}{109}\sqrt{1995e^{14}} + \frac{12}{109}\sqrt{14e^{25}}$	$(\frac{13}{109}, \frac{1}{109}, -\frac{22}{109}, \frac{2}{109}, \frac{14}{109}, -\frac{9}{109}, -\frac{20}{109}, \frac{27}{109}, \frac{15}{109}) + \frac{63}{109}e^2 \otimes e_7$	{1234689, 14579, 23458, 467}
952:12	$0, 0, 0, 0, \frac{3}{1613}\sqrt{3230e^{12}}, \frac{3}{1613}\sqrt{2810e^{13}}, \frac{15}{1613}\sqrt{226e^{34}}, \frac{3}{1613}\sqrt{6430e^{15}}, \frac{3}{1613}\sqrt{1990e^{14}} + \frac{18}{1613}\sqrt{65e^{25}}$	$(\frac{3}{1613}, \frac{51}{1613}, -\frac{144}{1613}, \frac{102}{1613}, \frac{54}{1613}, -\frac{141}{1613}, -\frac{42}{1613}, \frac{57}{1613}, \frac{105}{1613}) + \frac{66}{1613}\sqrt{15e^4} \otimes e_8 + \frac{9}{1613}\sqrt{830e^1} \otimes e_7$	{13456, 4679}
952:12	$0, 0, 0, 0, \frac{12}{67}\sqrt{5e^{12}}, \frac{3}{67}\sqrt{230e^{13}}, \frac{3}{67}\sqrt{110e^{34}}, \frac{12}{67}\sqrt{10e^{15}}, \frac{3}{67}\sqrt{110e^{14}} + \frac{12}{67}\sqrt{15e^{25}}$	$(0, -\frac{6}{67}, \frac{33}{67}, -\frac{12}{67}, -\frac{6}{67}, \frac{33}{67}, \frac{21}{67}, -\frac{6}{67}, -\frac{12}{67}) + \frac{3}{67}\sqrt{570e^3} \otimes e_9$	{123458, 134, 24789, 4579}
952:12	$0, 0, 0, 0, \frac{2}{45}\sqrt{6e^{12}}, \frac{1}{45}\sqrt{102e^{13}}, \frac{1}{315}\sqrt{966e^{34}}, \frac{2}{315}\sqrt{714e^{15}}, \frac{1}{63}\sqrt{42e^{14}} + \frac{4}{315}\sqrt{357e^{25}}$	$(-\frac{4}{45}, \frac{2}{45}, \frac{1}{15}, \frac{4}{45}, -\frac{2}{45}, -\frac{1}{45}, \frac{7}{45}, -\frac{2}{15}, 0) + \frac{1}{315}\sqrt{5754e^3} \otimes e_9 + \frac{4}{315}\sqrt{399e^2} \otimes e_6$	{1456789, 3468}
952:12	$0, 0, 0, 0, \frac{3}{97}\sqrt{190e^{12}}, \frac{3}{97}\sqrt{67e^{13}}, \frac{30}{97}\sqrt{2e^{34}}, \frac{3}{97}\sqrt{35e^{15}}, \frac{3}{97}\sqrt{145e^{14}} + \frac{6}{97}\sqrt{39e^{25}}$	$(\frac{9}{97}, \frac{3}{97}, -\frac{21}{97}, \frac{6}{97}, \frac{12}{97}, -\frac{12}{97}, -\frac{15}{97}, \frac{21}{97}, \frac{15}{97}) + \frac{3}{97}\sqrt{309e^2} \otimes e_7 + \frac{3}{97}\sqrt{30e^4} \otimes e_6$	{14579, 23458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:12	$0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{13}{1487}\sqrt{222}e^{13}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{39}{1487}\sqrt{74}e^{15}, \frac{26}{1487}\sqrt{429}e^{14} + \frac{26}{1487}\sqrt{222}e^{25}$	$(-\frac{221}{1487}, \frac{65}{1487}, \frac{416}{1487}, \frac{130}{1487}, -\frac{156}{1487}, \frac{195}{1487}, \frac{546}{1487}, -\frac{377}{1487}, -\frac{91}{1487})$ $+\frac{13}{1487}\sqrt{4098}e^3 \otimes e_9 + \frac{26}{1487}\sqrt{969}e^4 \otimes e_8$	{12345, 2479}
952:12	$0, 0, 0, 0, \frac{3}{82}\sqrt{119}e^{12}, \frac{3}{164}\sqrt{658}e^{13}, \frac{15}{164}\sqrt{70}e^{34}, \frac{3}{82}\sqrt{427}e^{15},$ $\frac{3}{82}\sqrt{329}e^{14} + \frac{9}{164}\sqrt{14}e^{25}$	$(-\frac{27}{164}, \frac{3}{82}, \frac{39}{82}, \frac{3}{41}, -\frac{21}{164}, \frac{51}{164}, \frac{45}{82}, -\frac{12}{41}, -\frac{15}{164})$ $+\frac{21}{164}\sqrt{78}e^3 \otimes e_8$	{1246789, 13459, 24578, 346}
952:12	$0, 0, 0, 0, \frac{16}{269}\sqrt{6}e^{12}, \frac{12}{269}\sqrt{78}e^{13}, \frac{4}{269}\sqrt{870}e^{34}, \frac{48}{269}\sqrt{3}e^{15},$ $\frac{8}{269}\sqrt{21}e^{14} + \frac{4}{269}\sqrt{6}e^{25}$	$(-\frac{52}{269}, \frac{36}{269}, \frac{28}{269}, \frac{72}{269}, -\frac{16}{269}, -\frac{24}{269}, \frac{100}{269}, -\frac{68}{269}, \frac{20}{269})$ $+\frac{4}{269}\sqrt{1578}e^3 \otimes e_8 + \frac{8}{269}\sqrt{330}e^4 \otimes e_6$	{123459, 4578}
952:12	$0, 0, 0, 0, \frac{36}{701}\sqrt{17}e^{12}, \frac{18}{701}\sqrt{118}e^{13}, \frac{9}{701}\sqrt{682}e^{34}, \frac{18}{701}\sqrt{37}e^{15},$ $\frac{9}{701}\sqrt{286}e^{14} + \frac{18}{701}\sqrt{93}e^{25}$	$(\frac{99}{701}, -\frac{81}{701}, \frac{99}{701}, -\frac{162}{701}, \frac{18}{701}, \frac{198}{701}, -\frac{63}{701}, \frac{117}{701}, -\frac{63}{701})$ $-\frac{9}{701}\sqrt{1230}e^3 \otimes e_9 + \frac{9}{701}\sqrt{1254}e^1 \otimes e_7$	{12689, 1569, 235678, 367}
952:12	$0, 0, 0, 0, \frac{36}{701}\sqrt{17}e^{12}, \frac{18}{701}\sqrt{118}e^{13}, \frac{9}{701}\sqrt{682}e^{34}, \frac{18}{701}\sqrt{37}e^{15},$ $\frac{9}{701}\sqrt{286}e^{14} + \frac{18}{701}\sqrt{93}e^{25}$	$(\frac{99}{701}, -\frac{81}{701}, \frac{99}{701}, -\frac{162}{701}, \frac{18}{701}, \frac{198}{701}, -\frac{63}{701}, \frac{117}{701}, -\frac{63}{701})$ $+\frac{9}{701}\sqrt{1230}e^3 \otimes e_9 + \frac{9}{701}\sqrt{1254}e^1 \otimes e_7$	{12689, 1569, 235678, 367}
952:12	$0, 0, 0, 0, \frac{3}{409}\sqrt{710}e^{12}, \frac{30}{409}\sqrt{14}e^{13}, \frac{12}{409}\sqrt{35}e^{34}, \frac{3}{409}\sqrt{970}e^{15},$ $\frac{3}{409}\sqrt{1010}e^{14} + \frac{6}{409}\sqrt{195}e^{25}$	$(-\frac{45}{409}, \frac{21}{409}, \frac{42}{409}, \frac{42}{409}, -\frac{24}{409}, -\frac{3}{409}, \frac{84}{409}, -\frac{69}{409}, -\frac{3}{409})$ $+\frac{30}{409}\sqrt{21}e^3 \otimes e_9 - \frac{9}{409}\sqrt{190}e^4 \otimes e_6$	{123458, 134, 24789, 4579}
952:12	$0, 0, 0, 0, \frac{27}{1415}\sqrt{682}e^{12}, \frac{54}{1415}\sqrt{110}e^{13}, \frac{27}{1415}\sqrt{374}e^{34},$ $\frac{27}{1415}\sqrt{110}e^{15}, \frac{27}{1415}\sqrt{418}e^{14} + \frac{162}{1415}\sqrt{22}e^{25}$	$(-\frac{216}{1415}, \frac{297}{1415}, -\frac{216}{1415}, \frac{594}{1415}, \frac{81}{1415}, -\frac{432}{1415}, \frac{378}{1415}, -\frac{27}{283}, \frac{378}{1415})$ $+\frac{27}{1415}\sqrt{1686}e^2 \otimes e_6 + \frac{27}{1415}\sqrt{762}e^4 \otimes e_8$	{145679, 346}
952:12	$0, 0, 0, 0, \frac{8}{25}e^{12}, \frac{2}{25}\sqrt{21}e^{13}, \frac{2}{25}\sqrt{13}e^{34}, \frac{2}{25}\sqrt{6}e^{15},$ $\frac{2}{25}\sqrt{23}e^{14} + \frac{2}{25}\sqrt{21}e^{25}$	$(-\frac{4}{25}, \frac{3}{25}, \frac{1}{25}, \frac{6}{25}, -\frac{1}{25}, -\frac{3}{25}, \frac{7}{25}, -\frac{1}{5}, \frac{2}{25})$ $+\frac{2}{25}\sqrt{29}e^3 \otimes e_8 + \frac{2}{25}\sqrt{38}e^2 \otimes e_6$	{24578, 346}
952:12	$0, 0, 0, 0, \frac{120}{2561}\sqrt{158}e^{12}, \frac{6}{2561}\sqrt{73786}e^{13}, \frac{6}{2561}\sqrt{5530}e^{34},$ $\frac{6}{197}\sqrt{158}e^{15}, \frac{6}{2561}\sqrt{61067}e^{14} + \frac{36}{2561}\sqrt{2686}e^{25}$	$(-\frac{252}{2561}, \frac{537}{2561}, -\frac{633}{2561}, \frac{1074}{2561}, \frac{285}{2561}, \frac{885}{2561}, \frac{441}{2561}, \frac{33}{2561}, \frac{822}{2561})$ $+\frac{6}{2561}\sqrt{173010}e^2 \otimes e_6$	{12349, 1456789, 2457, 3468}
952:12	$0, 0, 0, 0, \frac{18}{1025}\sqrt{211}e^{12}, \frac{9}{1025}\sqrt{523}e^{13}, \frac{18}{1025}\sqrt{257}e^{34}, \frac{9}{205}\sqrt{17}e^{15},$ $\frac{9}{1025}\sqrt{511}e^{14} + \frac{36}{1025}\sqrt{33}e^{25}$	$(-\frac{9}{1025}, \frac{63}{1025}, -\frac{144}{1025}, \frac{126}{1025}, \frac{54}{1025}, -\frac{153}{1025}, -\frac{18}{1025}, \frac{9}{205}, \frac{117}{1025})$ $+\frac{18}{1025}\sqrt{138}e^4 \otimes e_8 + \frac{9}{1025}\sqrt{1281}e^2 \otimes e_7$	{14579, 467}
952:13	$0, 0, 0, 0, \frac{1}{50}\sqrt{51}e^{12}, \frac{1}{100}\sqrt{138}e^{13}, \frac{1}{50}\sqrt{77}e^{34}, \frac{3}{100}\sqrt{30}e^{25},$ $\frac{1}{50}\sqrt{6}e^{15} + \frac{1}{100}\sqrt{14}e^{24}$	$(\frac{1}{25}, 0, -\frac{3}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, -\frac{1}{25}, \frac{1}{25}, \frac{2}{25})$ $+\frac{1}{50}\sqrt{78}e^4 \otimes e_8 + \frac{3}{100}\sqrt{46}e^2 \otimes e_7$	{2345, 4679}
952:13	$0, 0, 0, 0, \frac{2}{335}\sqrt{5565}e^{12}, \frac{1}{335}\sqrt{10282}e^{13}, \frac{2}{335}\sqrt{5565}e^{34}, \frac{2}{335}\sqrt{318}e^{25},$ $\frac{2}{335}\sqrt{5459}e^{15} + \frac{6}{335}\sqrt{583}e^{24}$	$(\frac{16}{335}, \frac{4}{67}, -\frac{69}{335}, \frac{32}{335}, \frac{36}{335}, -\frac{53}{335}, -\frac{37}{335}, \frac{56}{335}, \frac{52}{335})$ $+\frac{1}{335}\sqrt{30846}e^1 \otimes e_7$	{1234689, 134568, 245679, 467}
952:13	$0, 0, 0, 0, \frac{16}{163}\sqrt{3}e^{12}, \frac{2}{163}\sqrt{966}e^{13}, \frac{2}{163}\sqrt{330}e^{34}, \frac{6}{163}\sqrt{30}e^{25},$ $\frac{4}{163}\sqrt{105}e^{15} + \frac{4}{163}\sqrt{219}e^{24}$	$(-\frac{16}{163}, \frac{26}{163}, \frac{18}{163}, -\frac{32}{163}, \frac{10}{163}, \frac{2}{163}, -\frac{14}{163}, \frac{36}{163}, -\frac{6}{163})$ $+\frac{2}{163}\sqrt{690}e^3 \otimes e_9 + \frac{8}{163}\sqrt{69}e^2 \otimes e_6$	{2789, 3568}
952:13	$0, 0, 0, 0, \frac{18}{1565}\sqrt{10}e^{12}, \frac{3}{1565}\sqrt{4578}e^{13}, \frac{3}{1565}\sqrt{798}e^{34}, \frac{3}{1565}\sqrt{3462}e^{25},$ $\frac{9}{1565}\sqrt{354}e^{15} + \frac{3}{1565}\sqrt{2190}e^{24}$	$(-\frac{12}{313}, \frac{66}{1565}, \frac{99}{1565}, -\frac{24}{313}, \frac{6}{1565}, \frac{1565}{1565}, \frac{39}{1565}, -\frac{21}{1565}, \frac{72}{1565}, -\frac{54}{1565})$ $+\frac{3}{1565}\sqrt{3702}e^3 \otimes e_8 + \frac{6}{1565}\sqrt{1254}e^2 \otimes e_6$	{12359, 2789}
952:13	$0, 0, 0, 0, \frac{4}{479}\sqrt{186}e^{12}, \frac{2}{479}\sqrt{226}e^{13}, \frac{6}{479}\sqrt{102}e^{34}, \frac{2}{479}\sqrt{42}e^{25},$ $\frac{4}{479}\sqrt{233}e^{15} + \frac{12}{479}\sqrt{17}e^{24}$	$(-\frac{14}{479}, \frac{26}{479}, \frac{6}{479}, -\frac{28}{479}, \frac{12}{479}, -\frac{8}{479}, -\frac{22}{479}, \frac{38}{479}, -\frac{2}{479})$ $+\frac{40}{479}\sqrt{3}e^1 \otimes e_7 + \frac{6}{479}\sqrt{58}e^3 \otimes e_9$	{13456, 2456789}
952:13	$0, 0, 0, 0, \frac{4}{65}\sqrt{10}e^{12}, \frac{1}{65}\sqrt{15}e^{13}, \frac{1}{13}\sqrt{10}e^{34}, \frac{1}{65}\sqrt{255}e^{25},$ $\frac{1}{65}\sqrt{30}e^{15} + \frac{1}{65}\sqrt{85}e^{24}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, 0, \frac{1}{13}, 0, \frac{1}{13}, -\frac{1}{13})$ $+\frac{3}{65}\sqrt{30}e^3 \otimes e_8 + \frac{3}{65}\sqrt{35}e^2 \otimes e_7$	{128, 379}
952:13	$0, 0, 0, 0, \frac{2}{331}\sqrt{229}e^{12}, \frac{1}{331}\sqrt{42594}e^{13}, \frac{1}{331}\sqrt{43510}e^{34}, \frac{1}{331}\sqrt{64578}e^{25},$ $\frac{3}{331}\sqrt{2290}e^{15} + \frac{1}{331}\sqrt{21526}e^{24}$	$(\frac{2}{331}, -\frac{44}{331}, \frac{143}{331}, \frac{4}{331}, -\frac{42}{331}, \frac{145}{331}, \frac{147}{331}, -\frac{86}{331}, -\frac{40}{331})$ $+\frac{3}{331}\sqrt{14198}e^3 \otimes e_8$	{1268, 15689, 23567, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:13	$0, 0, 0, 0, \frac{8}{623}\sqrt{127}e^{12}, \frac{8}{623}\sqrt{2921}e^{13}, \frac{20}{623}\sqrt{254}e^{34}, \frac{2}{623}\sqrt{24765}e^{25},$ $\frac{2}{623}\sqrt{33655}e^{15} + \frac{2}{623}\sqrt{38481}e^{24}$	$(-\frac{16}{623}, \frac{141}{623}, -\frac{97}{623}, -\frac{32}{623}, \frac{125}{623}, -\frac{113}{623}, -\frac{129}{623}, \frac{38}{89}, \frac{109}{623})$ $+ \frac{4}{623}\sqrt{17526}e^2 \otimes e_6$	{12359, 167, 2789, 3568}
952:13	$0, 0, 0, 0, \frac{4}{43}\sqrt{55}e^{12}, \frac{4}{43}\sqrt{33}e^{13}, \frac{4}{43}\sqrt{55}e^{34}, \frac{2}{43}\sqrt{165}e^{25},$ $\frac{2}{43}\sqrt{33}e^{15} + \frac{2}{43}\sqrt{55}e^{24}$	$(-\frac{4}{43}, \frac{13}{43}, -\frac{1}{43}, -\frac{8}{43}, \frac{9}{43}, -\frac{5}{43}, -\frac{9}{43}, \frac{22}{43}, \frac{5}{43})$ $+ \frac{12}{43}\sqrt{11}e^2 \otimes e_7$	{1234689, 14578, 23459, 467}
952:13	$0, 0, 0, 0, \frac{10}{187}\sqrt{85}e^{12}, \frac{5}{187}\sqrt{202}e^{13}, \frac{10}{187}\sqrt{77}e^{34}, \frac{10}{187}\sqrt{6}e^{25},$ $\frac{10}{187}\sqrt{83}e^{15} + \frac{10}{187}\sqrt{87}e^{24}$	$(0, \frac{20}{187}, -\frac{25}{187}, 0, \frac{20}{187}, -\frac{25}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187})$ $+ \frac{15}{187}\sqrt{46}e^1 \otimes e_7 + \frac{20}{187}\sqrt{6}e^4 \otimes e_6$	{1234689, 134568, 245679, 467}
952:13	$0, 0, 0, 0, \frac{120}{653}\sqrt{2}e^{12}, \frac{30}{653}\sqrt{46}e^{13}, \frac{10}{653}\sqrt{494}e^{34}, \frac{30}{653}\sqrt{22}e^{25},$ $\frac{20}{653}\sqrt{15}e^{15} + \frac{20}{653}\sqrt{179}e^{24}$	$(\frac{20}{653}, -\frac{90}{653}, \frac{150}{653}, \frac{40}{653}, -\frac{70}{653}, \frac{170}{653}, \frac{190}{653}, -\frac{160}{653}, -\frac{50}{653})$ $+ \frac{30}{653}\sqrt{138}e^3 \otimes e_9 + \frac{40}{653}\sqrt{69}e^4 \otimes e_8$	{12345, 14679}
952:13	$0, 0, 0, 0, \frac{1}{301}\sqrt{42074}e^{12}, \frac{2}{301}\sqrt{17177}e^{13}, \frac{2}{301}\sqrt{1930}e^{34}, \frac{1}{301}\sqrt{5790}e^{25},$ $\frac{4}{301}\sqrt{2509}e^{15} + \frac{1}{301}\sqrt{70638}e^{24}$	$(\frac{69}{301}, -\frac{25}{301}, -\frac{124}{301}, \frac{138}{301}, \frac{44}{301}, -\frac{55}{301}, \frac{2}{43}, \frac{19}{301}, \frac{113}{301})$ $+ \frac{1}{301}\sqrt{103062}e^4 \otimes e_6$	{1256789, 1678, 2369, 356}
952:13	$0, 0, 0, 0, \frac{12}{731}\sqrt{26}e^{12}, \frac{6}{731}\sqrt{158}e^{13}, \frac{2}{731}\sqrt{10}e^{34}, \frac{2}{731}\sqrt{330}e^{25},$ $\frac{12}{731}\sqrt{11}e^{15} + \frac{4}{731}\sqrt{383}e^{24}$	$(\frac{14}{731}, -\frac{30}{731}, \frac{6}{731}, \frac{28}{731}, -\frac{16}{731}, \frac{20}{731}, \frac{2}{43}, -\frac{46}{731}, -\frac{2}{731})$ $+ \frac{2}{731}\sqrt{1290}e^3 \otimes e_9 + \frac{8}{731}\sqrt{93}e^4 \otimes e_6$	{1256789, 356}
952:13	$0, 0, 0, 0, \frac{8}{41}\sqrt{6}e^{12}, \frac{4}{41}\sqrt{46}e^{13}, \frac{4}{41}\sqrt{22}e^{34}, \frac{12}{41}\sqrt{2}e^{25},$ $\frac{8}{41}\sqrt{7}e^{15} + \frac{8}{41}\sqrt{13}e^{24}$	$(-\frac{6}{41}, \frac{4}{41}, \frac{24}{41}, -\frac{12}{41}, -\frac{2}{41}, \frac{18}{41}, \frac{12}{41}, \frac{2}{41}, -\frac{8}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_9$	{123458, 146789, 2346, 4579}
952:13	$0, 0, 0, 0, \frac{10}{187}\sqrt{85}e^{12}, \frac{5}{187}\sqrt{202}e^{13}, \frac{10}{187}\sqrt{77}e^{34}, \frac{10}{187}\sqrt{6}e^{25},$ $\frac{10}{187}\sqrt{83}e^{15} + \frac{10}{187}\sqrt{87}e^{24}$	$(0, \frac{20}{187}, -\frac{25}{187}, 0, \frac{20}{187}, -\frac{25}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187})$ $+ \frac{15}{187}\sqrt{46}e^1 \otimes e_7 - \frac{20}{187}\sqrt{6}e^4 \otimes e_6$	{1234689, 134568, 245679, 467}
952:13	$0, 0, 0, 0, \frac{133}{2953}\sqrt{62}e^{12}, \frac{19}{2953}\sqrt{1426}e^{13}, \frac{19}{2953}\sqrt{3346}e^{34},$ $\frac{171}{2953}\sqrt{6}e^{25}, \frac{38}{2953}\sqrt{719}e^{15} + \frac{19}{2953}\sqrt{2706}e^{24}$	$(\frac{247}{2953}, -\frac{57}{2953}, -\frac{608}{2953}, \frac{494}{2953}, \frac{190}{2953}, -\frac{361}{2953}, \frac{114}{2953}, \frac{133}{2953}, \frac{437}{2953})$ $+ \frac{19}{2953}\sqrt{4278}e^1 \otimes e_7 + \frac{38}{2953}\sqrt{231}e^4 \otimes e_8$	{245679, 467}
952:13	$0, 0, 0, 0, \frac{14}{355}\sqrt{155}e^{12}, \frac{7}{355}\sqrt{442}e^{13}, \frac{14}{71}\sqrt{7}e^{34}, \frac{28}{355}\sqrt{3}e^{25},$ $\frac{14}{355}\sqrt{179}e^{15} + \frac{14}{355}\sqrt{177}e^{24}$	$(\frac{28}{355}, 0, -\frac{77}{355}, \frac{56}{355}, \frac{28}{355}, -\frac{49}{355}, -\frac{21}{355}, \frac{28}{355}, \frac{56}{355})$ $+ \frac{21}{355}\sqrt{94}e^1 \otimes e_7 + \frac{28}{355}\sqrt{15}e^2 \otimes e_6$	{123469, 2456789}
952:13	$0, 0, 0, 0, \frac{7}{181}\sqrt{30}e^{12}, \frac{7}{181}\sqrt{42}e^{13}, \frac{28}{181}\sqrt{5}e^{34}, \frac{14}{181}\sqrt{15}e^{25},$ $\frac{28}{181}\sqrt{3}e^{15} + \frac{28}{181}\sqrt{5}e^{24}$	$(\frac{7}{181}, \frac{21}{181}, -\frac{42}{181}, \frac{14}{181}, \frac{28}{181}, -\frac{35}{181}, -\frac{28}{181}, \frac{49}{181}, \frac{35}{181})$ $+ \frac{35}{181}\sqrt{6}e^4 \otimes e_6 + \frac{7}{181}\sqrt{174}e^2 \otimes e_7$	{12348, 479}
952:13	$0, 0, 0, 0, \frac{4}{29}\sqrt{6}e^{12}, \frac{2}{29}\sqrt{6}e^{13}, \frac{2}{29}\sqrt{38}e^{34}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{3}e^{15} + \frac{4}{29}\sqrt{2}e^{24}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_9 + \frac{4}{29}\sqrt{15}e^2 \otimes e_7$	{1289, 135678, 2569, 37}
952:13	$0, 0, 0, 0, \frac{4}{29}\sqrt{6}e^{12}, \frac{2}{29}\sqrt{6}e^{13}, \frac{2}{29}\sqrt{38}e^{34}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{3}e^{15} + \frac{4}{29}\sqrt{2}e^{24}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $- \frac{2}{29}\sqrt{42}e^3 \otimes e_9 + \frac{4}{29}\sqrt{15}e^2 \otimes e_7$	{1289, 135678, 2569, 37}
952:13	$0, 0, 0, 0, \frac{220}{2393}e^{12}, \frac{44}{2393}\sqrt{230}e^{13}, \frac{44}{2393}\sqrt{71}e^{34}, \frac{22}{2393}\sqrt{753}e^{25},$ $\frac{22}{2393}\sqrt{811}e^{15} + \frac{88}{2393}\sqrt{105}e^{24}$	$(\frac{176}{2393}, -\frac{33}{2393}, -\frac{451}{2393}, \frac{352}{2393}, \frac{143}{2393}, -\frac{275}{2393}, -\frac{99}{2393}, \frac{110}{2393}, \frac{319}{2393})$ $+ \frac{132}{2393}\sqrt{23}e^4 \otimes e_8 + \frac{44}{2393}\sqrt{345}e^2 \otimes e_6$	{2789, 3568}
952:14	$0, 0, 0, 0, \frac{12}{2039}\sqrt{5773}e^{12}, \frac{84}{2039}\sqrt{115}e^{13}, \frac{24}{2039}\sqrt{4715}e^{23},$ $\frac{12}{2039}\sqrt{16951}e^{15}, \frac{12}{2039}\sqrt{46}e^{14} + \frac{12}{2039}\sqrt{9545}e^{25}$	$(-\frac{419}{2039}, \frac{156}{2039}, \frac{974}{2039}, \frac{312}{2039}, -\frac{263}{2039}, \frac{555}{2039}, \frac{1130}{2039}, -\frac{682}{2039}, -\frac{107}{2039})$ $+ \frac{12}{2039}\sqrt{39767}e^3 \otimes e_8$	{123459, 14689, 2346, 458}
952:14	$0, 0, 0, 0, \frac{20}{173}\sqrt{11}e^{12}, \frac{15}{173}\sqrt{26}e^{13}, \frac{10}{173}\sqrt{58}e^{23}, \frac{10}{173}\sqrt{30}e^{15},$ $\frac{20}{173}\sqrt{10}e^{14} + \frac{5}{173}\sqrt{138}e^{25}$	$(-\frac{40}{173}, \frac{30}{173}, \frac{25}{173}, \frac{60}{173}, -\frac{10}{173}, -\frac{15}{173}, \frac{55}{173}, -\frac{50}{173}, \frac{20}{173})$ $+ \frac{5}{173}\sqrt{422}e^4 \otimes e_6 + \frac{5}{173}\sqrt{518}e^3 \otimes e_8$	{1689, 236}
952:14	$0, 0, 0, 0, \frac{1}{253}\sqrt{38586}e^{12}, \frac{2}{253}\sqrt{6195}e^{13}, \frac{59}{253}\sqrt{6}e^{23}, \frac{6}{253}\sqrt{767}e^{15},$ $\frac{1}{253}\sqrt{30090}e^{14} + \frac{2}{253}\sqrt{3009}e^{25}$	$(\frac{81}{253}, -\frac{48}{253}, \frac{25}{253}, -\frac{96}{253}, \frac{3}{253}, \frac{106}{253}, -\frac{1}{11}, \frac{114}{253}, -\frac{15}{253})$ $+ \frac{1}{253}\sqrt{76818}e^1 \otimes e_4$	{2345678, 2458, 346, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:14	$0, 0, 0, 0, \frac{2}{353} \sqrt{36539e^{12}}, \frac{1}{1059} \sqrt{80266e^{13}}, \frac{1}{1059} \sqrt{530714e^{23}}, \frac{2}{353} \sqrt{12579e^{15}}, \frac{1}{1059} \sqrt{379766e^{14}} + \frac{5}{1059} \sqrt{15574e^{25}}$	$(\frac{103}{353}, -\frac{77}{1059}, -\frac{71}{353}, -\frac{154}{1059}, \frac{232}{1059}, \frac{32}{353}, -\frac{290}{1059}, \frac{541}{1059}, \frac{155}{1059})$ $+ \frac{16}{1059} \sqrt{4193e^1} \otimes e_7$	{123468, 145, 2456789, 3479}
952:14	$0, 0, 0, 0, \frac{394}{1843} \sqrt{6e^{12}}, \frac{6}{1843} \sqrt{28762e^{13}}, \frac{2}{1843} \sqrt{518110e^{23}}, \frac{4}{1843} \sqrt{13002e^{15}}, \frac{2}{1843} \sqrt{500774e^{14}} + \frac{4}{1843} \sqrt{84119e^{25}}$	$(\frac{1}{1843}, \frac{286}{1843}, -\frac{502}{1843}, \frac{572}{1843}, \frac{287}{1843}, -\frac{501}{1843}, -\frac{216}{1843}, \frac{288}{1843}, \frac{573}{1843})$ $+ \frac{2}{1843} \sqrt{664678e^4} \otimes e_7$	{12579, 136789, 267, 3578}
952:14	$0, 0, 0, 0, \frac{148}{3749} \sqrt{93e^{12}}, \frac{37}{3749} \sqrt{390e^{13}}, \frac{666}{3749} \sqrt{6e^{23}}, \frac{74}{3749} \sqrt{38e^{15}}, \frac{185}{3749} \sqrt{114e^{14}} + \frac{37}{3749} \sqrt{106e^{25}}$	$(-\frac{592}{3749}, \frac{185}{3749}, \frac{1147}{3749}, \frac{370}{3749}, -\frac{407}{3749}, \frac{555}{3749}, \frac{1332}{3749}, -\frac{999}{3749}, -\frac{222}{3749})$ $+ \frac{37}{3749} \sqrt{2870e^4} \otimes e_8 + \frac{74}{3749} \sqrt{977e^3} \otimes e_9$	{1689, 35678}
952:14	$0, 0, 0, 0, \frac{370}{4827} e^{12}, \frac{37}{4827} \sqrt{890e^{13}}, \frac{74}{4827} \sqrt{626e^{23}}, \frac{74}{4827} \sqrt{354e^{15}}, \frac{74}{4827} \sqrt{791e^{14}} + \frac{74}{4827} \sqrt{511e^{25}}$	$(\frac{148}{1609}, \frac{296}{4827}, -\frac{407}{1609}, \frac{592}{4827}, \frac{740}{4827}, -\frac{259}{1609}, -\frac{925}{4827}, \frac{1184}{4827}, \frac{1036}{4827})$ $+ \frac{37}{4827} \sqrt{5306e^1} \otimes e_7 + \frac{74}{4827} \sqrt{849e^4} \otimes e_6$	{1689, 35678}
952:14	$0, 0, 0, 0, \frac{168}{281} e^{12}, \frac{24}{281} \sqrt{95e^{13}}, \frac{24}{281} e^{23}, \frac{168}{281} e^{15}, \frac{24}{281} \sqrt{95e^{14}} + \frac{24}{281} e^{25}$	$(-\frac{50}{281}, \frac{93}{281}, -\frac{52}{281}, \frac{186}{281}, \frac{43}{281}, -\frac{102}{281}, \frac{41}{281}, -\frac{7}{281}, \frac{136}{281})$ $+ \frac{24}{281} \sqrt{239e^4} \otimes e_6$	{125689, 1679, 23678, 356}
952:14	$0, 0, 0, 0, \frac{66}{283} \sqrt{5e^{12}}, \frac{110}{283} \sqrt{2e^{13}}, \frac{11}{283} \sqrt{402e^{23}}, \frac{22}{283} \sqrt{10e^{15}}, \frac{22}{283} \sqrt{97e^{14}} + \frac{22}{283} \sqrt{65e^{25}}$	$(0, \frac{44}{283}, -\frac{77}{283}, \frac{88}{283}, \frac{44}{283}, -\frac{77}{283}, -\frac{33}{283}, \frac{44}{283}, \frac{88}{283})$ $+ \frac{11}{283} \sqrt{2e^2} \otimes e_6 + \frac{22}{283} \sqrt{129e^4} \otimes e_7$	{12579, 136789}
952:14	$0, 0, 0, 0, \frac{10}{233} \sqrt{165e^{12}}, \frac{5}{233} \sqrt{770e^{13}}, \frac{5}{233} \sqrt{110e^{23}}, \frac{10}{233} \sqrt{55e^{15}}, \frac{25}{233} \sqrt{22e^{14}} + \frac{15}{233} \sqrt{110e^{25}}$	$(-\frac{35}{233}, \frac{55}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{20}{233}, -\frac{15}{233}, \frac{75}{233})$ $+ \frac{10}{233} \sqrt{445e^2} \otimes e_6 + \frac{20}{233} \sqrt{15e^4} \otimes e_8$	{123479, 245}
952:14	$0, 0, 0, 0, \frac{6}{247} \sqrt{290e^{12}}, \frac{145}{494} \sqrt{6e^{13}}, \frac{1}{494} \sqrt{123105e^{23}}, \frac{1}{247} \sqrt{42195e^{15}}, \frac{1}{247} \sqrt{47415e^{14}} + \frac{1}{494} \sqrt{140070e^{25}}$	$(-\frac{297}{988}, \frac{69}{247}, \frac{37}{247}, \frac{138}{247}, -\frac{21}{988}, -\frac{149}{988}, \frac{106}{247}, -\frac{159}{494}, \frac{255}{988})$ $+ \frac{11}{494} \sqrt{3045e^4} \otimes e_8$	{136789, 189, 3578, 568}
952:14	$0, 0, 0, 0, \frac{20}{4463} \sqrt{177e^{12}}, \frac{120}{4463} e^{13}, \frac{5}{4463} \sqrt{4618e^{23}}, \frac{5}{4463} \sqrt{786e^{15}}, \frac{20}{4463} \sqrt{305e^{14}} + \frac{20}{4463} \sqrt{95e^{25}}$	$(-\frac{130}{4463}, \frac{80}{4463}, \frac{55}{4463}, \frac{160}{4463}, -\frac{50}{4463}, -\frac{75}{4463}, \frac{135}{4463}, -\frac{180}{4463}, \frac{30}{4463})$ $+ \frac{45}{4463} \sqrt{46e^3} \otimes e_9 + \frac{5}{4463} \sqrt{4774e^4} \otimes e_7$	{125789, 357}
952:14	$0, 0, 0, 0, \frac{26}{6411} \sqrt{37e^{12}}, \frac{13}{6411} \sqrt{170e^{13}}, \frac{26}{6411} \sqrt{1385e^{23}}, \frac{26}{6411} \sqrt{1194e^{15}}, \frac{52}{6411} \sqrt{134e^{14}} + \frac{26}{6411} \sqrt{955e^{25}}$	$(\frac{78}{2137}, -\frac{286}{6411}, \frac{117}{2137}, -\frac{572}{6411}, -\frac{52}{6411}, \frac{195}{2137}, \frac{65}{6411}, \frac{182}{6411}, -\frac{338}{6411})$ $+ \frac{13}{6411} \sqrt{6410e^1} \otimes e_7 + \frac{26}{6411} \sqrt{1353e^3} \otimes e_8$	{12359, 1689}
952:14	$0, 0, 0, 0, \frac{54}{4411} \sqrt{155e^{12}}, \frac{27}{4411} \sqrt{1038e^{13}}, \frac{54}{4411} \sqrt{745e^{23}}, \frac{54}{4411} \sqrt{138e^{15}}, \frac{54}{4411} \sqrt{699e^{14}} + \frac{54}{4411} \sqrt{134e^{25}}$	$(\frac{54}{401}, -\frac{486}{4411}, \frac{351}{4411}, -\frac{972}{4411}, \frac{108}{4411}, \frac{945}{4411}, -\frac{135}{4411}, \frac{702}{4411}, -\frac{378}{4411})$ $+ \frac{27}{4411} \sqrt{4102e^1} \otimes e_7 + \frac{54}{4411} \sqrt{967e^3} \otimes e_9$	{1689, 35678}
952:14	$0, 0, 0, 0, \frac{306}{5365} \sqrt{13e^{12}}, \frac{17}{1073} \sqrt{158e^{13}}, \frac{17}{5365} \sqrt{1958e^{23}}, \frac{34}{5365} \sqrt{131e^{15}}, \frac{17}{5365} \sqrt{3898e^{14}} + \frac{17}{5365} \sqrt{3810e^{25}}$	$(\frac{323}{5365}, \frac{17}{5365}, -\frac{119}{1073}, \frac{34}{5365}, \frac{68}{1073}, -\frac{272}{5365}, -\frac{578}{5365}, \frac{663}{5365}, \frac{357}{5365})$ $+ \frac{34}{5365} \sqrt{1158e^1} \otimes e_4 + \frac{68}{5365} \sqrt{331e^2} \otimes e_6$	{2458, 346}
952:14	$0, 0, 0, 0, \frac{2}{341} \sqrt{10545e^{12}}, \frac{1}{341} \sqrt{52170e^{13}}, \frac{1}{341} \sqrt{11470e^{23}}, \frac{6}{341} \sqrt{555e^{15}}, \frac{37}{341} \sqrt{30e^{14}} + \frac{1}{341} \sqrt{66230e^{25}}$	$(-\frac{43}{341}, \frac{79}{341}, -\frac{63}{341}, \frac{158}{341}, \frac{36}{341}, -\frac{106}{341}, \frac{16}{341}, -\frac{7}{341}, \frac{115}{341})$ $+ \frac{14}{341} \sqrt{555e^2} \otimes e_6$	{123479, 1456789, 245, 3468}
952:14	$0, 0, 0, 0, \frac{38}{4939} \sqrt{123e^{12}}, \frac{114}{4939} \sqrt{105e^{13}}, \frac{19}{4939} \sqrt{554e^{23}}, \frac{38}{4939} \sqrt{555e^{15}}, \frac{228}{4939} \sqrt{2e^{14}} + \frac{38}{4939} \sqrt{986e^{25}}$	$(-\frac{494}{4939}, \frac{266}{4939}, \frac{399}{4939}, \frac{532}{4939}, -\frac{228}{4939}, -\frac{95}{4939}, \frac{665}{4939}, -\frac{722}{4939}, \frac{38}{4939})$ $+ \frac{114}{4939} e^3 \otimes e_9 + \frac{19}{4939} \sqrt{4746e^2} \otimes e_6$	{145689, 34678}
952:14	$0, 0, 0, 0, \frac{1}{4} e^{12}, \frac{1}{16} \sqrt{22e^{13}}, \frac{1}{8} \sqrt{2e^{23}}, \frac{1}{4} e^{15}, \frac{1}{16} \sqrt{22e^{14}} + \frac{1}{8} \sqrt{2e^{25}}$	$(-\frac{1}{8}, \frac{1}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, 0, \frac{3}{16}, -\frac{3}{16}, 0)$ $+ \frac{1}{16} \sqrt{26e^4} \otimes e_6 + \frac{1}{16} \sqrt{34e^3} \otimes e_9$	{123458, 1347, 24789, 459}
952:14	$0, 0, 0, 0, \frac{38}{6229} \sqrt{13e^{12}}, \frac{19}{6229} \sqrt{2362e^{13}}, \frac{19}{6229} \sqrt{4686e^{23}}, \frac{38}{6229} \sqrt{1207e^{15}}, \frac{931}{6229} \sqrt{2e^{14}} + \frac{19}{6229} \sqrt{4466e^{25}}$	$(-\frac{19}{6229}, \frac{323}{6229}, -\frac{703}{6229}, \frac{646}{6229}, \frac{304}{6229}, -\frac{722}{6229}, -\frac{380}{6229}, \frac{285}{6229}, \frac{627}{6229})$ $+ \frac{38}{6229} \sqrt{1294e^4} \otimes e_8 + \frac{38}{6229} \sqrt{1591e^1} \otimes e_7$	{145, 3479}
952:14	$0, 0, 0, 0, \frac{92}{289} \sqrt{3e^{12}}, \frac{12}{289} \sqrt{230e^{13}}, \frac{4}{289} \sqrt{1541e^{23}}, \frac{92}{289} \sqrt{3e^{15}}, \frac{12}{289} \sqrt{230e^{14}} + \frac{4}{289} \sqrt{1541e^{25}}$	$(-\frac{2}{289}, -\frac{25}{289}, \frac{132}{289}, -\frac{50}{289}, -\frac{27}{289}, \frac{130}{289}, \frac{107}{289}, -\frac{29}{289}, -\frac{52}{289})$ $+ \frac{4}{289} \sqrt{5727e^3} \otimes e_9$	{123458, 1347, 24789, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:14	$0, 0, 0, 0, \frac{15}{707}\sqrt{182e^{12}}, \frac{10}{707}\sqrt{518e^{13}}, \frac{5}{707}\sqrt{602e^{23}}, \frac{110}{707}\sqrt{7e^{15}},$ $\frac{5}{707}\sqrt{1946e^{14}} + \frac{10}{101}\sqrt{2e^{25}}$	$(\frac{5}{101}, -\frac{10}{101}, \frac{25}{101}, -\frac{20}{101}, -\frac{5}{101}, \frac{30}{101}, \frac{15}{101}, 0, -\frac{15}{101})$ $+ \frac{20}{707}\sqrt{266e^3} \otimes e_8 + \frac{5}{707}\sqrt{4774e^1} \otimes e_4$	{12678, 1357}
952:14	$0, 0, 0, 0, \frac{22}{1297}\sqrt{273e^{12}}, \frac{66}{1297}\sqrt{65e^{13}}, \frac{11}{1297}\sqrt{870e^{23}}, \frac{66}{1297}\sqrt{11e^{15}},$ $\frac{22}{1297}\sqrt{399e^{14}} + \frac{22}{1297}\sqrt{435e^{25}}$	$(-\frac{242}{1297}, \frac{198}{1297}, \frac{77}{1297}, \frac{396}{1297}, -\frac{44}{1297}, -\frac{165}{1297}, \frac{275}{1297}, -\frac{286}{1297}, \frac{154}{1297})$ $+ \frac{11}{1297}\sqrt{4110e^2} \otimes e_6 + \frac{22}{1297}\sqrt{723e^3} \otimes e_8$	{24578, 3467}
952:14	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{16}\sqrt{22e^{13}}, \frac{1}{8}\sqrt{2e^{23}}, \frac{1}{4}e^{15},$ $\frac{1}{16}\sqrt{22e^{14}} + \frac{1}{8}\sqrt{2e^{25}}$	$(-\frac{1}{8}, \frac{1}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, 0, \frac{3}{16}, -\frac{3}{16}, 0)$ $-\frac{1}{16}\sqrt{26e^4} \otimes e_6 + \frac{1}{16}\sqrt{34e^3} \otimes e_9$	{123458, 1347, 24789, 459}
952:14	$0, 0, 0, 0, \frac{32}{289}\sqrt{5e^{12}}, \frac{16}{289}\sqrt{87e^{13}}, \frac{16}{289}\sqrt{3e^{23}}, \frac{16}{289}\sqrt{3e^{15}},$ $\frac{16}{289}\sqrt{2e^{14}} + \frac{48}{289}\sqrt{6e^{25}}$	$(\frac{40}{289}, -\frac{44}{289}, \frac{80}{289}, -\frac{88}{289}, -\frac{4}{289}, \frac{120}{289}, \frac{36}{289}, \frac{36}{289}, -\frac{48}{289})$ $+ \frac{16}{289}\sqrt{119e^1} \otimes e_4 + \frac{16}{289}\sqrt{137e^3} \otimes e_9$	{126789, 1569}
952:14	$0, 0, 0, 0, \frac{28}{211}\sqrt{6e^{12}}, \frac{7}{211}\sqrt{77e^{13}}, \frac{7}{211}\sqrt{67e^{23}}, \frac{7}{211}\sqrt{38e^{15}},$ $\frac{7}{211}\sqrt{10e^{14}} + \frac{28}{211}\sqrt{3e^{25}}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{7}{211}\sqrt{183e^1} \otimes e_7 + \frac{7}{211}\sqrt{193e^2} \otimes e_6$	{123489, 14569, 24578, 3467}
952:14	$0, 0, 0, 0, \frac{28}{211}\sqrt{6e^{12}}, \frac{7}{211}\sqrt{77e^{13}}, \frac{7}{211}\sqrt{67e^{23}}, \frac{7}{211}\sqrt{38e^{15}},$ $\frac{7}{211}\sqrt{10e^{14}} + \frac{28}{211}\sqrt{3e^{25}}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{7}{211}\sqrt{183e^1} \otimes e_7 - \frac{7}{211}\sqrt{193e^2} \otimes e_6$	{123489, 14569, 24578, 3467}
952:15	$0, 0, 0, 0, \frac{124}{2501}\sqrt{73e^{12}}, \frac{186}{2501}\sqrt{43e^{13}}, \frac{124}{2501}\sqrt{66e^{14}},$ $\frac{31}{2501}\sqrt{654e^{25}}, \frac{155}{2501}\sqrt{38e^{15}} + \frac{248}{2501}\sqrt{11e^{23}}$	$(\frac{341}{2501}, -\frac{310}{2501}, \frac{682}{2501}, -\frac{620}{2501}, \frac{31}{2501}, \frac{1023}{2501}, -\frac{279}{2501}, -\frac{279}{2501}, \frac{372}{2501})$ $+ \frac{31}{2501}\sqrt{2794e^1} \otimes e_4 + \frac{93}{2501}\sqrt{190e^3} \otimes e_8$	{234569, 346}
952:15	$0, 0, 0, 0, \frac{13}{1213}\sqrt{1254e^{12}}, \frac{1}{1213}\sqrt{249546e^{13}}, \frac{1}{1213}\sqrt{645810e^{14}},$ $\frac{15}{1213}\sqrt{2090e^{25}}, \frac{2}{1213}\sqrt{94677e^{15}} + \frac{6}{1213}\sqrt{13585e^{23}}$	$(-\frac{8}{1213}, \frac{279}{1213}, -\frac{16}{1213}, -\frac{340}{1213}, \frac{271}{1213}, -\frac{24}{1213}, -\frac{348}{1213}, \frac{550}{1213}, \frac{263}{1213})$ $+ \frac{6}{1213}\sqrt{36157e^2} \otimes e_7$	{123468, 1356789, 235, 3479}
952:15	$0, 0, 0, 0, \frac{7}{1893}\sqrt{186e^{12}}, \frac{7}{1893}\sqrt{2634e^{13}}, \frac{35}{1893}\sqrt{22e^{14}}, \frac{21}{1893}\sqrt{10e^{25}},$ $\frac{28}{1893}\sqrt{42e^{15}} + \frac{14}{631}\sqrt{130e^{23}}$	$(-\frac{98}{1893}, \frac{63}{1893}, -\frac{196}{1893}, \frac{140}{1893}, \frac{91}{1893}, -\frac{98}{1893}, \frac{14}{1893}, \frac{280}{1893}, -\frac{7}{1893})$ $+ \frac{14}{1893}\sqrt{1230e^4} \otimes e_9 + \frac{56}{1893}\sqrt{87e^2} \otimes e_7$	{2689, 45678}
952:15	$0, 0, 0, 0, \frac{15}{1817}\sqrt{142e^{12}}, \frac{15}{1817}\sqrt{123e^{13}}, \frac{5}{1817}\sqrt{1705e^{14}}, \frac{20}{1817}\sqrt{6e^{25}},$ $\frac{5}{1817}\sqrt{1310e^{15}} + \frac{10}{1817}\sqrt{299e^{23}}$	$(-\frac{25}{1817}, \frac{80}{1817}, -\frac{50}{1817}, -\frac{50}{1817}, \frac{55}{1817}, -\frac{75}{1817}, -\frac{75}{1817}, \frac{135}{1817}, \frac{30}{1817})$ $-\frac{15}{1817}\sqrt{159e^4} \otimes e_6 + \frac{5}{1817}\sqrt{2029e^3} \otimes e_7$	{125679, 167, 24789, 4578}
952:15	$0, 0, 0, 0, \frac{5}{7389}\sqrt{178e^{12}}, \frac{5}{7389}\sqrt{1574e^{13}}, \frac{10}{7389}\sqrt{1693e^{14}},$ $\frac{5}{7389}\sqrt{5314e^{25}}, \frac{5}{7389}\sqrt{4142e^{15}} + \frac{5}{7389}\sqrt{2978e^{23}}$	$(-\frac{85}{7389}, \frac{40}{2463}, -\frac{170}{7389}, \frac{20}{821}, \frac{35}{7389}, -\frac{85}{2463}, \frac{95}{7389}, \frac{155}{7389}, -\frac{50}{7389})$ $+ \frac{10}{7389}\sqrt{1517e^4} \otimes e_8 + \frac{5}{7389}\sqrt{7646e^2} \otimes e_7$	{1356789, 3479}
952:15	$0, 0, 0, 0, \frac{148}{3749}\sqrt{93e^{12}}, \frac{37}{3749}\sqrt{390e^{13}}, \frac{666}{3749}\sqrt{6e^{14}},$ $\frac{37}{3749}\sqrt{542e^{25}}, \frac{148}{3749}\sqrt{31e^{15}} + \frac{185}{3749}\sqrt{114e^{23}}$	$(\frac{185}{3749}, -\frac{592}{3749}, \frac{370}{3749}, \frac{1147}{3749}, -\frac{407}{3749}, \frac{555}{3749}, \frac{1332}{3749}, -\frac{999}{3749}, -\frac{222}{3749})$ $+ \frac{37}{3749}\sqrt{3518e^4} \otimes e_9 + \frac{74}{3749}\sqrt{815e^3} \otimes e_8$	{289, 4578}
952:15	$0, 0, 0, 0, \frac{69}{1301}\sqrt{94e^{12}}, \frac{23}{1301}\sqrt{114e^{13}}, \frac{46}{1301}\sqrt{10e^{14}}, \frac{23}{1301}\sqrt{390e^{25}},$ $\frac{69}{1301}\sqrt{38e^{15}} + \frac{69}{1301}\sqrt{10e^{23}}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{345}{1301}, \frac{276}{1301})$ $+ \frac{23}{1301}\sqrt{1122e^2} \otimes e_7 + \frac{46}{1301}\sqrt{295e^1} \otimes e_4$	{13578, 3467}
952:15	$0, 0, 0, 0, \frac{1}{307}\sqrt{28542e^{12}}, \frac{1}{307}\sqrt{40470e^{13}}, \frac{1}{307}\sqrt{8094e^{14}}, \frac{3}{307}\sqrt{5254e^{25}},$ $\frac{4}{307}\sqrt{1491e^{15}} + \frac{6}{307}\sqrt{355e^{23}}$	$(-\frac{38}{307}, \frac{99}{307}, -\frac{76}{307}, \frac{68}{307}, \frac{61}{307}, -\frac{114}{307}, \frac{30}{307}, \frac{160}{307}, \frac{23}{307})$ $+ \frac{6}{307}\sqrt{3053e^2} \otimes e_6$	{123478, 1238, 3469, 3679}
952:15	$0, 0, 0, 0, \frac{14}{619}\sqrt{239e^{12}}, \frac{14}{619}\sqrt{177e^{13}}, \frac{14}{619}\sqrt{163e^{14}}, \frac{56}{619}\sqrt{6e^{25}},$ $\frac{28}{619}\sqrt{31e^{15}} + \frac{56}{619}\sqrt{7e^{23}}$	$(-\frac{7}{619}, \frac{77}{619}, -\frac{14}{619}, -\frac{105}{619}, \frac{70}{619}, -\frac{21}{619}, -\frac{112}{619}, \frac{147}{619}, \frac{63}{619})$ $+ \frac{14}{619}\sqrt{249e^2} \otimes e_6 + \frac{14}{619}\sqrt{319e^1} \otimes e_4$	{12389, 346}
952:15	$0, 0, 0, 0, \frac{8}{2357}\sqrt{24447e^{12}}, \frac{4}{2357}\sqrt{193047e^{13}}, \frac{2}{2357}\sqrt{176187e^{14}},$ $\frac{6}{2357}\sqrt{77837e^{25}}, \frac{6}{2357}\sqrt{69407e^{15}} + \frac{22}{2357}\sqrt{4215e^{23}}$	$(\frac{418}{2357}, -\frac{634}{2357}, \frac{836}{2357}, \frac{129}{2357}, -\frac{216}{2357}, \frac{1254}{2357}, \frac{547}{2357}, -\frac{850}{2357}, \frac{202}{2357})$ $+ \frac{6}{2357}\sqrt{189113e^3} \otimes e_8$	{24789, 289, 4578, 58}
952:15	$0, 0, 0, 0, \frac{18}{2369}\sqrt{3310e^{12}}, \frac{10}{2369}\sqrt{993e^{13}}, \frac{12}{2369}\sqrt{29459e^{14}},$ $\frac{48}{2369}\sqrt{1655e^{25}}, \frac{2}{2369}\sqrt{585870e^{15}} + \frac{3}{2369}\sqrt{78447e^{23}}$	$(\frac{129}{2369}, -\frac{407}{2369}, \frac{258}{2369}, \frac{1301}{2369}, -\frac{278}{2369}, \frac{387}{2369}, \frac{1430}{2369}, -\frac{685}{2369}, -\frac{149}{2369})$ $+ \frac{6}{2369}\sqrt{221439e^4} \otimes e_8$	{124569, 146, 289, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:15	$0, 0, 0, 0, \frac{25}{5749}\sqrt{310}e^{12}, \frac{25}{5749}\sqrt{958}e^{13}, \frac{50}{5749}\sqrt{798}e^{14},$ $\frac{25}{5749}\sqrt{3830}e^{25}, \frac{25}{5749}\sqrt{3498}e^{15} + \frac{25}{5749}\sqrt{3506}e^{23}$	$(\frac{325}{5749}, -\frac{150}{5749}, \frac{650}{5749}, -\frac{1100}{5749}, \frac{175}{5749}, \frac{975}{5749}, -\frac{775}{5749}, \frac{25}{5749}, \frac{500}{5749})$ $+ \frac{25}{5749}\sqrt{5734}e^2 \otimes e_7 + \frac{50}{5749}\sqrt{1193}e^3 \otimes e_8$	{289, 4578}
952:15	$0, 0, 0, 0, \frac{15}{1817}\sqrt{142}e^{12}, \frac{15}{1817}\sqrt{123}e^{13}, \frac{5}{1817}\sqrt{1705}e^{14}, \frac{20}{1817}\sqrt{6}e^{25},$ $\frac{5}{1817}\sqrt{1310}e^{15} + \frac{10}{1817}\sqrt{299}e^{23}$	$(-\frac{25}{1817}, \frac{80}{1817}, -\frac{50}{1817}, -\frac{50}{1817}, \frac{55}{1817}, -\frac{75}{1817}, -\frac{75}{1817}, \frac{135}{1817}, \frac{30}{1817})$ $+ \frac{15}{1817}\sqrt{159}e^4 \otimes e_6 + \frac{5}{1817}\sqrt{2029}e^3 \otimes e_7$	{125679, 167, 24789, 4578}
952:15	$0, 0, 0, 0, \frac{5}{643}\sqrt{2}e^{12}, \frac{5}{643}\sqrt{158}e^{13}, \frac{5}{1929}\sqrt{15}e^{14}, \frac{5}{1929}\sqrt{1411}e^{25},$ $\frac{10}{1929}\sqrt{271}e^{15} + \frac{5}{1929}\sqrt{709}e^{23}$	$(-\frac{5}{643}, -\frac{20}{1929}, -\frac{10}{643}, \frac{145}{1929}, -\frac{35}{1929}, -\frac{15}{643}, \frac{130}{1929}, -\frac{55}{1929}, -\frac{50}{1929})$ $+ \frac{10}{1929}\sqrt{449}e^3 \otimes e_8 + \frac{5}{1929}\sqrt{1787}e^2 \otimes e_6$	{2489, 2789}
952:15	$0, 0, 0, 0, \frac{37}{5485}\sqrt{14}e^{12}, \frac{37}{5485}\sqrt{262}e^{13}, \frac{296}{5485}\sqrt{71}e^{14},$ $\frac{37}{5485}\sqrt{2558}e^{25}, \frac{37}{5485}\sqrt{2910}e^{15} + \frac{37}{5485}\sqrt{2434}e^{23}$	$(-\frac{407}{5485}, \frac{222}{1097}, -\frac{814}{5485}, \frac{148}{5485}, \frac{703}{5485}, -\frac{1221}{5485}, -\frac{259}{5485}, \frac{1813}{5485}, \frac{296}{5485})$ $+ \frac{37}{5485}\sqrt{6130}e^2 \otimes e_7 + \frac{74}{5485}\sqrt{943}e^4 \otimes e_6$	{167, 4578}
952:15	$0, 0, 0, 0, \frac{56}{619}\sqrt{5}e^{12}, \frac{14}{619}\sqrt{177}e^{13}, \frac{28}{619}\sqrt{39}e^{14}, \frac{56}{619}\sqrt{6}e^{25},$ $\frac{14}{619}\sqrt{195}e^{15} + \frac{42}{619}\sqrt{23}e^{23}$	$(-\frac{7}{619}, \frac{77}{619}, -\frac{14}{619}, -\frac{105}{619}, \frac{70}{619}, -\frac{21}{619}, -\frac{112}{619}, \frac{147}{619}, \frac{63}{619})$ $+ \frac{14}{619}\sqrt{249}e^2 \otimes e_6 + \frac{14}{619}\sqrt{319}e^3 \otimes e_7$	{167, 24789}
952:15	$0, 0, 0, 0, \frac{1}{1141}\sqrt{294522}e^{12}, \frac{1}{1141}\sqrt{454890}e^{13}, \frac{1}{1141}\sqrt{729366}e^{14},$ $\frac{3}{1141}\sqrt{34438}e^{25}, \frac{4}{1141}\sqrt{20046}e^{15} + \frac{18}{1141}\sqrt{2570}e^{23}$	$(-\frac{50}{1141}, -\frac{3}{1141}, -\frac{100}{1141}, \frac{668}{1141}, -\frac{53}{1141}, -\frac{150}{1141}, \frac{618}{1141}, -\frac{8}{163}, -\frac{103}{1141})$ $+ \frac{6}{1141}\sqrt{42662}e^4 \otimes e_9$	{1234568, 136789, 2347, 359}
952:15	$0, 0, 0, 0, \frac{13}{2271}\sqrt{3138}e^{12}, \frac{13}{757}\sqrt{586}e^{13}, \frac{52}{2271}\sqrt{183}e^{14},$ $\frac{13}{757}\sqrt{370}e^{25}, \frac{26}{757}\sqrt{118}e^{15} + \frac{13}{2271}\sqrt{2262}e^{23}$	$(\frac{13}{757}, -\frac{78}{757}, \frac{26}{757}, \frac{208}{757}, -\frac{65}{757}, \frac{39}{757}, \frac{221}{757}, -\frac{143}{757}, -\frac{52}{757})$ $+ \frac{13}{2271}\sqrt{5622}e^4 \otimes e_6 + \frac{13}{2271}\sqrt{6954}e^3 \otimes e_8$	{24789, 4578}
952:15	$0, 0, 0, 0, \frac{8}{2923}\sqrt{933}e^{12}, \frac{24}{2923}e^{13}, \frac{8}{2923}\sqrt{1414}e^{14}, \frac{8}{2923}\sqrt{327}e^{25},$ $\frac{8}{2923}\sqrt{395}e^{15} + \frac{8}{2923}\sqrt{1523}e^{23}$	$(\frac{52}{2923}, -\frac{116}{2923}, \frac{104}{2923}, \frac{20}{2923}, -\frac{64}{2923}, \frac{156}{2923}, \frac{72}{2923}, -\frac{180}{2923}, -\frac{12}{2923})$ $+ \frac{24}{2923}\sqrt{143}e^4 \otimes e_9 + \frac{8}{2923}\sqrt{1489}e^3 \otimes e_7$	{1256789, 457}
952:15	$0, 0, 0, 0, \frac{24}{751}\sqrt{386}e^{12}, \frac{6}{751}\sqrt{4053}e^{13}, \frac{2}{751}\sqrt{73147}e^{14}, \frac{2}{751}\sqrt{579}e^{25},$ $\frac{2}{751}\sqrt{55391}e^{15} + \frac{4}{751}\sqrt{18335}e^{23}$	$(\frac{91}{751}, -\frac{5}{751}, \frac{182}{751}, \frac{295}{751}, \frac{86}{751}, \frac{273}{751}, -\frac{204}{751}, \frac{81}{751}, \frac{177}{751})$ $+ \frac{2}{751}\sqrt{128731}e^3 \otimes e_7$	{1256789, 1678, 2479, 457}
952:15	$0, 0, 0, 0, \frac{2}{751}\sqrt{73147}e^{12}, \frac{6}{751}\sqrt{4053}e^{13}, \frac{24}{751}\sqrt{386}e^{14}, \frac{2}{751}\sqrt{579}e^{25},$ $\frac{4}{751}\sqrt{18335}e^{15} + \frac{2}{751}\sqrt{55391}e^{23}$	$(\frac{91}{751}, -\frac{5}{751}, \frac{182}{751}, -\frac{295}{751}, \frac{86}{751}, \frac{273}{751}, -\frac{204}{751}, \frac{81}{751}, \frac{177}{751})$ $+ \frac{2}{751}\sqrt{128731}e^1 \otimes e_4$	{1239, 135, 2345689, 3468}
952:15	$0, 0, 0, 0, \frac{8}{145}\sqrt{10}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{2}{145}\sqrt{510}e^{14}, \frac{2}{145}\sqrt{1130}e^{25},$ $\frac{4}{145}\sqrt{170}e^{15} + \frac{2}{145}\sqrt{190}e^{23}$	$(-\frac{2}{29}, \frac{2}{29}, -\frac{4}{29}, \frac{10}{29}, 0, -\frac{6}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{2}{29})$ $+ \frac{2}{145}\sqrt{1390}e^2 \otimes e_6 + \frac{4}{145}\sqrt{305}e^4 \otimes e_8$	{12378, 34679}
952:15	$0, 0, 0, 0, \frac{8}{2345}\sqrt{33321}e^{12}, \frac{2}{2345}\sqrt{921498}e^{13}, \frac{2}{2345}\sqrt{981246}e^{14},$ $\frac{6}{2345}\sqrt{34853}e^{25}, \frac{6}{2345}\sqrt{70855}e^{15} + \frac{4}{2345}\sqrt{29874}e^{23}$	$(-\frac{269}{2345}, \frac{13}{67}, -\frac{538}{2345}, \frac{213}{335}, \frac{186}{2345}, -\frac{807}{2345}, \frac{1222}{2345}, \frac{641}{2345}, -\frac{83}{2345})$ $+ \frac{6}{2345}\sqrt{252397}e^4 \otimes e_6$	{125679, 167, 24789, 4578}
952:16	$0, 0, 0, 0, \frac{1}{13}\sqrt{22}e^{12}, \frac{2}{13}\sqrt{5}e^{13}, \frac{2}{13}\sqrt{5}e^{24}, \frac{1}{13}\sqrt{6}e^{25},$ $\frac{1}{13}\sqrt{6}e^{15} + \frac{1}{13}\sqrt{42}e^{23}$	$(\frac{1}{13}, -\frac{5}{26}, \frac{2}{13}, \frac{11}{26}, -\frac{3}{26}, \frac{3}{13}, \frac{3}{13}, -\frac{4}{13}, -\frac{1}{26})$ $+ \frac{1}{13}\sqrt{70}e^3 \otimes e_8 + \frac{1}{13}\sqrt{70}e^4 \otimes e_9$	{12345, 139}
952:16	$0, 0, 0, 0, \frac{38}{1313}\sqrt{127}e^{12}, \frac{38}{1313}\sqrt{293}e^{13}, \frac{76}{1313}\sqrt{26}e^{24},$ $\frac{19}{1313}\sqrt{479}e^{25}, \frac{437}{1313}e^{15} + \frac{133}{1313}\sqrt{3}e^{23}$	$(\frac{38}{1313}, -\frac{323}{2626}, \frac{76}{1313}, \frac{475}{1313}, -\frac{19}{202}, \frac{114}{1313}, \frac{627}{2626}, -\frac{285}{1313}, -\frac{171}{2626})$ $+ \frac{114}{1313}\sqrt{35}e^3 \otimes e_8 + \frac{19}{1313}\sqrt{1155}e^4 \otimes e_6$	{2489, 4578}
952:16	$0, 0, 0, 0, \frac{1}{143}\sqrt{190}e^{12}, \frac{1}{143}\sqrt{190}e^{13}, \frac{2}{143}\sqrt{295}e^{24}, \frac{3}{143}\sqrt{70}e^{25},$ $\frac{2}{143}\sqrt{295}e^{15} + \frac{4}{143}\sqrt{15}e^{23}$	$(\frac{7}{143}, -\frac{27}{286}, \frac{14}{143}, \frac{21}{286}, -\frac{1}{22}, \frac{21}{143}, -\frac{3}{143}, -\frac{20}{143}, \frac{1}{286})$ $+ \frac{2}{143}\sqrt{290}e^4 \otimes e_9 + \frac{7}{143}\sqrt{30}e^1 \otimes e_7$	{2356789, 34678}
952:16	$0, 0, 0, 0, \frac{1}{32}\sqrt{210}e^{12}, \frac{1}{32}\sqrt{210}e^{13}, \frac{1}{16}\sqrt{91}e^{24}, \frac{7}{32}\sqrt{2}e^{25},$ $\frac{1}{16}\sqrt{91}e^{15} + \frac{1}{16}\sqrt{77}e^{23}$	$(\frac{1}{8}, -\frac{3}{64}, \frac{1}{4}, -\frac{17}{64}, \frac{5}{64}, \frac{3}{8}, -\frac{5}{16}, \frac{1}{32}, \frac{13}{64})$ $+ \frac{1}{32}\sqrt{770}e^1 \otimes e_7$	{12349, 135, 2356789, 34678}
952:16	$0, 0, 0, 0, \frac{4}{773}\sqrt{295}e^{12}, \frac{8}{773}\sqrt{110}e^{13}, \frac{8}{773}\sqrt{110}e^{24}, \frac{2}{773}\sqrt{445}e^{25},$ $\frac{2}{773}\sqrt{445}e^{15} + \frac{2}{773}\sqrt{210}e^{23}$	$(\frac{11}{773}, -\frac{31}{773}, \frac{22}{773}, \frac{43}{773}, -\frac{20}{773}, \frac{33}{773}, \frac{12}{773}, -\frac{51}{773}, -\frac{9}{773})$ $+ \frac{2}{773}\sqrt{1785}e^4 \otimes e_6 + \frac{6}{773}\sqrt{210}e^3 \otimes e_7$	{1256789, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:16	$0, 0, 0, 0, \frac{1}{8}\sqrt{2}e^{12}, \frac{1}{8}\sqrt{2}e^{13}, \frac{1}{4}e^{24}, \frac{1}{16}\sqrt{26}e^{25},$ $\frac{1}{4}e^{15} + \frac{3}{16}\sqrt{2}e^{23}$	$(\frac{1}{16}, -\frac{1}{32}, \frac{1}{8}, -\frac{5}{32}, \frac{1}{32}, \frac{3}{16}, -\frac{3}{16}, 0, \frac{3}{32})$ $+ \frac{1}{16}\sqrt{30}e^2 \otimes e_4 + \frac{1}{16}\sqrt{30}e^3 \otimes e_8$	{2356, 3469}
952:16	$0, 0, 0, 0, \frac{36}{3059}\sqrt{421}e^{12}, \frac{36}{3059}\sqrt{609}e^{13}, \frac{36}{3059}\sqrt{1159}e^{24},$ $\frac{36}{3059}\sqrt{73}e^{25}, \frac{108}{3059}\sqrt{87}e^{15} + \frac{144}{3059}\sqrt{57}e^{23}$	$(\frac{306}{3059}, -\frac{432}{3059}, \frac{612}{3059}, \frac{90}{3059}, -\frac{18}{437}, \frac{918}{3059}, -\frac{18}{161}, -\frac{558}{3059}, \frac{180}{3059})$ $+ \frac{36}{3059}\sqrt{1810}e^1 \otimes e_7 + \frac{72}{3059}\sqrt{235}e^4 \otimes e_8$	{1358, 3467}
952:16	$0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{12}{23}\sqrt{2}e^{24}, \frac{4}{23}\sqrt{14}e^{25},$ $\frac{12}{23}\sqrt{2}e^{15} + \frac{8}{23}\sqrt{3}e^{23}$	$(0, -\frac{2}{23}, 0, \frac{14}{23}, -\frac{2}{23}, 0, \frac{12}{23}, -\frac{4}{23}, -\frac{2}{23})$ $+ \frac{8}{23}\sqrt{10}e^4 \otimes e_9$	{1234568, 13689, 234, 359}
952:16	$0, 0, 0, 0, \frac{3}{37}\sqrt{14}e^{12}, \frac{7}{37}\sqrt{6}e^{13}, \frac{6}{37}\sqrt{7}e^{24}, \frac{1}{37}\sqrt{42}e^{25},$ $\frac{14}{37}e^{15} + \frac{2}{37}\sqrt{42}e^{23}$	$(\frac{5}{37}, -\frac{9}{74}, \frac{10}{37}, -\frac{9}{74}, \frac{1}{74}, \frac{15}{37}, -\frac{9}{37}, -\frac{4}{37}, \frac{11}{74})$ $+ \frac{2}{37}\sqrt{70}e^3 \otimes e_8 + \frac{3}{37}\sqrt{70}e^1 \otimes e_7$	{235679, 3467}
952:16	$0, 0, 0, 0, \frac{24}{2819}\sqrt{555}e^{12}, \frac{120}{2819}\sqrt{31}e^{13}, \frac{696}{2819}e^{24}, \frac{24}{2819}\sqrt{203}e^{25},$ $\frac{24}{2819}\sqrt{401}e^{15} + \frac{24}{2819}\sqrt{462}e^{23}$	$(-\frac{12}{2819}, \frac{252}{2819}, -\frac{24}{2819}, -\frac{552}{2819}, \frac{240}{2819}, -\frac{36}{2819}, -\frac{300}{2819}, \frac{492}{2819}, \frac{228}{2819})$ $+ \frac{240}{2819}\sqrt{11}e^2 \otimes e_6 + \frac{24}{2819}\sqrt{1430}e^1 \otimes e_7$	{123489, 3467}
952:16	$0, 0, 0, 0, \frac{7}{37}\sqrt{6}e^{12}, \frac{3}{37}\sqrt{14}e^{13}, \frac{14}{37}e^{24}, \frac{1}{37}\sqrt{42}e^{25},$ $\frac{6}{37}\sqrt{7}e^{15} + \frac{2}{37}\sqrt{42}e^{23}$	$(\frac{3}{37}, \frac{3}{74}, \frac{6}{37}, -\frac{25}{74}, \frac{9}{74}, \frac{9}{37}, -\frac{11}{37}, \frac{6}{37}, \frac{15}{74})$ $+ \frac{2}{37}\sqrt{70}e^2 \otimes e_4 + \frac{3}{37}\sqrt{70}e^1 \otimes e_7$	{235679, 3467}
952:16	$0, 0, 0, 0, \frac{462}{3881}\sqrt{2}e^{12}, \frac{42}{3881}\sqrt{941}e^{13}, \frac{336}{3881}\sqrt{13}e^{24},$ $\frac{84}{3881}\sqrt{309}e^{25}, \frac{42}{3881}\sqrt{566}e^{15} + \frac{42}{3881}\sqrt{93}e^{23}$	$(-\frac{231}{3881}, \frac{189}{3881}, -\frac{462}{3881}, \frac{1029}{3881}, -\frac{42}{3881}, -\frac{693}{3881}, \frac{1218}{3881}, \frac{147}{3881}, -\frac{273}{3881})$ $+ \frac{210}{3881}\sqrt{59}e^4 \otimes e_8 + \frac{84}{3881}\sqrt{505}e^2 \otimes e_6$	{15689, 245}
952:16	$0, 0, 0, 0, \frac{4}{3419}\sqrt{93}e^{12}, \frac{12}{3419}\sqrt{133}e^{13}, \frac{4}{3419}\sqrt{1555}e^{24}, \frac{4}{3419}\sqrt{347}e^{25},$ $\frac{4}{3419}\sqrt{727}e^{15} + \frac{16}{3419}\sqrt{62}e^{23}$	$(\frac{22}{3419}, -\frac{60}{3419}, \frac{44}{3419}, \frac{74}{3419}, -\frac{38}{3419}, \frac{66}{3419}, \frac{14}{3419}, -\frac{98}{3419}, -\frac{16}{3419})$ $+ \frac{4}{3419}\sqrt{1790}e^1 \otimes e_7 + \frac{16}{3419}\sqrt{345}e^4 \otimes e_6$	{12349, 2356789}
952:16	$0, 0, 0, 0, \frac{4}{773}\sqrt{5}e^{12}, \frac{4}{773}\sqrt{355}e^{13}, \frac{4}{773}\sqrt{5}e^{24}, \frac{4}{773}\sqrt{355}e^{25},$ $\frac{2}{773}\sqrt{1095}e^{15} + \frac{24}{773}\sqrt{5}e^{23}$	$(-\frac{6}{773}, -\frac{8}{773}, \frac{12}{773}, \frac{59}{773}, -\frac{14}{773}, -\frac{18}{773}, \frac{51}{773}, -\frac{22}{773}, -\frac{20}{773})$ $+ \frac{2}{773}\sqrt{1785}e^2 \otimes e_6 + \frac{38}{773}\sqrt{5}e^3 \otimes e_8$	{24789, 289}
952:16	$0, 0, 0, 0, \frac{12}{23}\sqrt{2}e^{12}, \frac{4}{23}\sqrt{6}e^{13}, \frac{4}{23}\sqrt{14}e^{24}, \frac{12}{23}\sqrt{2}e^{25},$ $\frac{4}{23}\sqrt{6}e^{15} + \frac{8}{23}\sqrt{3}e^{23}$	$(0, \frac{6}{23}, 0, -\frac{10}{23}, \frac{6}{23}, 0, -\frac{4}{23}, \frac{12}{23}, \frac{6}{23})$ $+ \frac{8}{23}\sqrt{10}e^2 \otimes e_4$	{12368, 1345689, 235, 349}
952:16	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{8}\sqrt{2}e^{13}, \frac{1}{16}\sqrt{26}e^{24}, \frac{1}{4}e^{25},$ $\frac{1}{8}\sqrt{2}e^{15} + \frac{3}{16}\sqrt{2}e^{23}$	$(\frac{1}{16}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, \frac{3}{16}, 0, -\frac{3}{16}, 0)$ $+ \frac{1}{16}\sqrt{30}e^3 \otimes e_7 - \frac{1}{16}\sqrt{30}e^4 \otimes e_9$	{123458, 1389, 2346, 3569}
952:16	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{8}\sqrt{2}e^{13}, \frac{1}{16}\sqrt{26}e^{24}, \frac{1}{4}e^{25},$ $\frac{1}{8}\sqrt{2}e^{15} + \frac{3}{16}\sqrt{2}e^{23}$	$(\frac{1}{16}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, \frac{3}{16}, 0, -\frac{3}{16}, 0)$ $+ \frac{1}{16}\sqrt{30}e^3 \otimes e_7 + \frac{1}{16}\sqrt{30}e^4 \otimes e_9$	{123458, 1389, 2346, 3569}
952:16	$0, 0, 0, 0, \frac{4}{127}\sqrt{67}e^{12}, \frac{2}{127}\sqrt{1139}e^{13}, \frac{2}{127}\sqrt{2546}e^{24}, \frac{2}{127}\sqrt{2546}e^{25},$ $\frac{4}{127}\sqrt{67}e^{15} + \frac{2}{127}\sqrt{1407}e^{23}$	$(\frac{13}{127}, -\frac{29}{127}, \frac{26}{127}, \frac{89}{127}, -\frac{16}{127}, \frac{39}{127}, \frac{60}{127}, -\frac{45}{127}, -\frac{3}{127})$ $+ \frac{2}{127}\sqrt{7035}e^4 \otimes e_8$	{123459, 1347, 236789, 3568}
952:16	$0, 0, 0, 0, \frac{26}{3439}\sqrt{326}e^{12}, \frac{26}{3439}\sqrt{1257}e^{13}, \frac{26}{3439}\sqrt{942}e^{24},$ $\frac{78}{3439}\sqrt{34}e^{25}, \frac{78}{3439}\sqrt{71}e^{15} + \frac{26}{3439}\sqrt{633}e^{23}$	$(-\frac{13}{3439}, \frac{299}{3439}, -\frac{26}{3439}, -\frac{663}{3439}, \frac{286}{3439}, -\frac{39}{3439}, -\frac{364}{3439}, \frac{585}{3439}, \frac{273}{3439})$ $+ \frac{26}{3439}\sqrt{1585}e^3 \otimes e_7 + \frac{390}{3439}\sqrt{7}e^2 \otimes e_6$	{1467, 2789}
952:16	$0, 0, 0, 0, \frac{1}{61}\sqrt{1222}e^{12}, \frac{1}{61}\sqrt{2726}e^{13}, \frac{1}{61}\sqrt{2726}e^{24}, \frac{1}{61}\sqrt{235}e^{25},$ $\frac{1}{61}\sqrt{235}e^{15} + \frac{1}{61}\sqrt{987}e^{23}$	$(-\frac{5}{61}, \frac{11}{122}, -\frac{10}{61}, \frac{32}{61}, \frac{1}{122}, -\frac{15}{61}, \frac{75}{122}, \frac{6}{61}, -\frac{9}{122})$ $+ \frac{1}{61}\sqrt{4935}e^4 \otimes e_6$	{1234589, 13478, 23679, 356}
952:16	$0, 0, 0, 0, \frac{4}{23}\sqrt{14}e^{12}, \frac{12}{23}\sqrt{2}e^{13}, \frac{12}{23}\sqrt{2}e^{24}, \frac{4}{23}\sqrt{6}e^{25},$ $\frac{4}{23}\sqrt{6}e^{15} + \frac{8}{23}\sqrt{3}e^{23}$	$(\frac{4}{23}, -\frac{2}{23}, \frac{8}{23}, -\frac{6}{23}, \frac{2}{23}, \frac{12}{23}, -\frac{8}{23}, 0, \frac{6}{23})$ $+ \frac{8}{23}\sqrt{10}e^3 \otimes e_7$	{1256789, 14678, 279, 457}
952:16	$0, 0, 0, 0, \frac{4}{527}\sqrt{3397}e^{12}, \frac{4}{527}\sqrt{7181}e^{13}, \frac{4}{527}\sqrt{3397}e^{24}, \frac{4}{527}\sqrt{7181}e^{25},$ $\frac{4}{527}\sqrt{4171}e^{15} + \frac{8}{527}\sqrt{473}e^{23}$	$(-\frac{2}{17}, \frac{158}{527}, -\frac{4}{17}, \frac{8}{527}, \frac{96}{527}, -\frac{6}{17}, \frac{166}{527}, \frac{254}{527}, \frac{2}{31})$ $+ \frac{8}{527}\sqrt{4730}e^2 \otimes e_6$	{12348, 12378, 34679, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:16	$0, 0, 0, 0, \frac{4}{23}\sqrt{6}e^{12}, \frac{12}{23}\sqrt{2}e^{13}, \frac{4}{23}\sqrt{6}e^{24}, \frac{12}{23}\sqrt{2}e^{25},$ $\frac{4}{23}\sqrt{14}e^{15} + \frac{8}{23}\sqrt{3}e^{23}$	$(\frac{4}{23}, -\frac{6}{23}, \frac{8}{23}, \frac{6}{23}, -\frac{2}{23}, \frac{12}{23}, 0, -\frac{8}{23}, \frac{2}{23})$ $+ \frac{8}{23}\sqrt{10}e^3 \otimes e_8$	{24789, 289, 458, 578}
952:16	$0, 0, 0, 0, \frac{76}{2101}\sqrt{3}e^{12}, \frac{38}{2101}\sqrt{201}e^{13}, \frac{342}{2101}\sqrt{7}e^{24}, \frac{152}{2101}e^{25},$ $\frac{114}{2101}\sqrt{21}e^{15} + \frac{76}{2101}\sqrt{93}e^{23}$	$(-\frac{171}{2101}, \frac{19}{191}, -\frac{342}{2101}, \frac{589}{2101}, \frac{38}{2101}, -\frac{513}{2101}, \frac{798}{2101}, \frac{247}{2101}, -\frac{133}{2101})$ $+ \frac{114}{2101}\sqrt{105}e^2 \otimes e_6 + \frac{190}{2101}\sqrt{37}e^4 \otimes e_9$	{145678, 2579}
952:16	$0, 0, 0, 0, \frac{1196}{3109}e^{12}, \frac{46}{3109}\sqrt{899}e^{13}, \frac{46}{3109}\sqrt{1130}e^{24}, \frac{46}{3109}\sqrt{122}e^{25},$ $\frac{82}{3109}\sqrt{85}e^{15} + \frac{46}{3109}\sqrt{273}e^{23}$	$(\frac{391}{3109}, -\frac{575}{3109}, \frac{782}{3109}, \frac{299}{3109}, -\frac{184}{3109}, \frac{1173}{3109}, -\frac{276}{3109}, -\frac{759}{3109}, \frac{207}{3109})$ $+ \frac{184}{3109}\sqrt{105}e^3 \otimes e_7 + \frac{46}{3109}\sqrt{1155}e^4 \otimes e_8$	{1467, 2789}
952:17	$0, 0, 0, 0, \frac{90}{3581}\sqrt{286}e^{12}, \frac{90}{3581}\sqrt{751}e^{13},$ $\frac{45}{3581}\sqrt{110}e^{14} + \frac{270}{3581}\sqrt{11}e^{23}, \frac{315}{3581}\sqrt{86}e^{15}, \frac{45}{3581}\sqrt{2586}e^{25} + \frac{45}{3581}\sqrt{4082}e^{34}$	$(-\frac{765}{3581}, \frac{990}{3581}, -\frac{270}{3581}, \frac{1485}{3581}, \frac{225}{3581}, -\frac{1035}{3581}, \frac{720}{3581}, -\frac{540}{3581}, \frac{1215}{3581})$ $+ \frac{270}{3581}\sqrt{173}e^4 \otimes e_8$	{1278, 23589}
952:17	$0, 0, 0, 0, \frac{9}{146}\sqrt{57}e^{12}, \frac{9}{292}\sqrt{705}e^{13}, \frac{9}{292}\sqrt{705}e^{14} + \frac{81}{292}\sqrt{6}e^{23},$ $\frac{9}{292}\sqrt{510}e^{15}, \frac{27}{146}\sqrt{10}e^{25} + \frac{9}{146}\sqrt{39}e^{34}$	$(-\frac{18}{73}, \frac{99}{292}, -\frac{45}{584}, \frac{297}{584}, \frac{27}{292}, -\frac{189}{584}, \frac{153}{584}, -\frac{45}{292}, \frac{63}{146})$ $+ \frac{27}{146}\sqrt{42}e^4 \otimes e_6$	{134, 167, 3569, 4579}
952:17	$0, 0, 0, 0, \frac{18}{3413}\sqrt{157}e^{12}, \frac{9}{3413}\sqrt{1030}e^{13},$ $\frac{18}{3413}\sqrt{1045}e^{14} + \frac{54}{3413}\sqrt{107}e^{23}, \frac{45}{3413}\sqrt{218}e^{15}, \frac{9}{3413}\sqrt{4314}e^{25} + \frac{9}{3413}\sqrt{4166}e^{34}$	$(-\frac{171}{3413}, \frac{180}{3413}, -\frac{81}{3413}, \frac{270}{3413}, \frac{9}{3413}, -\frac{252}{3413}, \frac{99}{3413}, -\frac{162}{3413}, \frac{189}{3413})$ $+ \frac{270}{3413}\sqrt{7}e^3 \otimes e_8$	{134567, 379}
952:17	$0, 0, 0, 0, \frac{9}{146}\sqrt{57}e^{12}, \frac{9}{292}\sqrt{705}e^{13}, \frac{9}{292}\sqrt{705}e^{14} + \frac{81}{292}\sqrt{6}e^{23},$ $\frac{9}{292}\sqrt{510}e^{15}, \frac{27}{146}\sqrt{10}e^{25} + \frac{9}{146}\sqrt{39}e^{34}$	$(-\frac{18}{73}, \frac{99}{292}, -\frac{45}{584}, \frac{297}{584}, \frac{27}{292}, -\frac{189}{584}, \frac{153}{584}, -\frac{45}{292}, \frac{63}{146})$ $- \frac{27}{146}\sqrt{42}e^4 \otimes e_6$	{134, 167, 3569, 4579}
952:17	$0, 0, 0, 0, \frac{90}{3581}\sqrt{286}e^{12}, \frac{90}{3581}\sqrt{806}e^{13},$ $\frac{45}{3581}\sqrt{110}e^{14} + \frac{270}{3581}\sqrt{11}e^{23}, \frac{45}{3581}\sqrt{2014}e^{15}, \frac{45}{3581}\sqrt{3642}e^{25} + \frac{45}{3581}\sqrt{2146}e^{34}$	$(-\frac{765}{3581}, \frac{990}{3581}, -\frac{270}{3581}, \frac{1485}{3581}, \frac{225}{3581}, -\frac{1035}{3581}, \frac{720}{3581}, -\frac{540}{3581}, \frac{1215}{3581})$ $+ \frac{270}{3581}\sqrt{173}e^2 \otimes e_6$	{12349, 2457}
952:18	$0, 0, 0, 0, \frac{50}{359}\sqrt{5}e^{12}, \frac{50}{1077}\sqrt{218}e^{13}, \frac{50}{1077}\sqrt{218}e^{14} + \frac{25}{1077}\sqrt{938}e^{23},$ $\frac{25}{1077}\sqrt{734}e^{25}, \frac{25}{1077}\sqrt{998}e^{15} + \frac{25}{1077}\sqrt{782}e^{34}$	$(-\frac{50}{359}, \frac{325}{1077}, -\frac{75}{359}, \frac{250}{1077}, \frac{175}{1077}, -\frac{125}{359}, \frac{100}{1077}, \frac{500}{1077}, \frac{25}{1077})$ $+ \frac{100}{1077}\sqrt{118}e^4 \otimes e_6$	{134, 167}
952:18	$0, 0, 0, 0, \frac{2}{81}\sqrt{570}e^{12}, \frac{5}{81}\sqrt{114}e^{13}, \frac{1}{27}\sqrt{114}e^{14} + \frac{1}{81}\sqrt{570}e^{23},$ $\frac{1}{81}\sqrt{3306}e^{25}, \frac{1}{81}\sqrt{1254}e^{15} + \frac{1}{81}\sqrt{114}e^{34}$	$(-\frac{4}{27}, \frac{1}{3}, -\frac{2}{9}, \frac{7}{27}, \frac{5}{27}, -\frac{10}{27}, \frac{1}{9}, \frac{14}{27}, \frac{1}{27})$ $+ \frac{2}{81}\sqrt{1938}e^2 \otimes e_6$	{257, 3679}
952:18	$0, 0, 0, 0, \frac{180}{4217}\sqrt{2}e^{12}, \frac{15}{4217}\sqrt{502}e^{13},$ $\frac{15}{4217}\sqrt{4370}e^{14} + \frac{15}{4217}\sqrt{5038}e^{23}, \frac{15}{4217}\sqrt{682}e^{25}, \frac{15}{4217}\sqrt{4942}e^{15} + \frac{15}{4217}\sqrt{4514}e^{34}$	$(\frac{240}{4217}, -\frac{345}{4217}, \frac{360}{4217}, -\frac{225}{4217}, -\frac{105}{4217}, \frac{600}{4217}, \frac{15}{4217}, -\frac{450}{4217}, \frac{135}{4217})$ $+ \frac{30}{4217}\sqrt{1934}e^4 \otimes e_8$	{234567, 479}
952:18	$0, 0, 0, 0, \frac{34}{1503}\sqrt{111}e^{12}, \frac{170}{1503}\sqrt{33}e^{13},$ $\frac{34}{1503}\sqrt{141}e^{14} + \frac{17}{1503}\sqrt{114}e^{23}, \frac{17}{1503}\sqrt{3990}e^{25}, \frac{17}{1503}\sqrt{2838}e^{15} + \frac{17}{167}\sqrt{38}e^{34}$	$(\frac{34}{167}, -\frac{119}{501}, \frac{51}{167}, -\frac{68}{501}, -\frac{17}{501}, \frac{85}{167}, \frac{34}{501}, -\frac{136}{501}, \frac{85}{501})$ $+ \frac{68}{1503}\sqrt{483}e^3 \otimes e_8$	{2489, 578}
952:20	$0, 0, 0, 0, \frac{51}{1651}\sqrt{426}e^{12}, \frac{51}{1651}\sqrt{426}e^{34},$ $\frac{17}{1651}\sqrt{426}e^{14} + \frac{102}{1651}\sqrt{65}e^{23}, \frac{17}{1651}\sqrt{2982}e^{15}, \frac{17}{1651}\sqrt{318}e^{13} + \frac{102}{1651}\sqrt{6}e^{25}$	$(\frac{391}{1651}, -\frac{17}{1651}, -\frac{34}{1651}, -\frac{34}{1651}, \frac{374}{1651}, -\frac{476}{1651}, -\frac{51}{1651}, \frac{765}{1651}, \frac{357}{1651})$ $+ \frac{51}{1651}\sqrt{922}e^1 \otimes e_6$	{1579, 467}
952:20	$0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{13}{1487}\sqrt{4098}e^{14} + \frac{26}{1487}\sqrt{969}e^{23}, \frac{13}{1487}\sqrt{3210}e^{15}, \frac{26}{1487}\sqrt{429}e^{13} + \frac{26}{1487}\sqrt{1191}e^{25}$	$(-\frac{221}{1487}, \frac{65}{1487}, \frac{130}{1487}, \frac{416}{1487}, -\frac{156}{1487}, \frac{546}{1487}, \frac{195}{1487}, -\frac{377}{1487}, -\frac{91}{1487})$ $+ \frac{39}{1487}\sqrt{886}e^4 \otimes e_9$	{134, 3569}
952:20	$0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{26}{1487}\sqrt{969}e^{14} + \frac{13}{1487}\sqrt{4098}e^{23}, \frac{26}{1487}\sqrt{1191}e^{15}, \frac{26}{1487}\sqrt{429}e^{13} + \frac{13}{1487}\sqrt{3210}e^{25}$	$(-\frac{221}{1487}, \frac{65}{1487}, \frac{130}{1487}, \frac{416}{1487}, -\frac{156}{1487}, \frac{546}{1487}, \frac{195}{1487}, -\frac{377}{1487}, -\frac{91}{1487})$ $+ \frac{39}{1487}\sqrt{886}e^3 \otimes e_8$	{189, 4568}
952:20	$0, 0, 0, 0, \frac{180}{403}e^{12}, \frac{180}{403}e^{34}, \frac{5}{403}\sqrt{555}e^{14} + \frac{60}{403}e^{23}, \frac{5}{403}\sqrt{309}e^{15},$ $\frac{5}{403}\sqrt{1059}e^{13} + \frac{60}{403}\sqrt{7}e^{25}$	$(\frac{55}{403}, -\frac{5}{403}, -\frac{10}{403}, -\frac{70}{403}, \frac{50}{403}, -\frac{80}{403}, -\frac{15}{403}, \frac{105}{403}, \frac{45}{403})$ $+ \frac{15}{403}\sqrt{233}e^2 \otimes e_6$	{23458, 367}
952:20	$0, 0, 0, 0, \frac{10}{201}\sqrt{78}e^{12}, \frac{10}{201}\sqrt{246}e^{34}, \frac{10}{201}\sqrt{102}e^{14} + \frac{10}{201}\sqrt{66}e^{23},$ $\frac{10}{201}\sqrt{210}e^{13}, \frac{10}{67}\sqrt{19}e^{13} + \frac{10}{201}\sqrt{42}e^{25}$	$(-\frac{40}{201}, \frac{5}{67}, \frac{10}{67}, \frac{85}{201}, -\frac{25}{201}, \frac{115}{201}, \frac{15}{67}, -\frac{65}{201}, -\frac{10}{201})$ $+ \frac{20}{67}\sqrt{14}e^4 \otimes e_8$	{1236789, 13459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:21	$0, 0, 0, 0, \frac{26}{349}\sqrt{71}e^{12}, \frac{91}{349}\sqrt{6}e^{13}, \frac{65}{349}\sqrt{6}e^{23},$ $\frac{13}{349}\sqrt{298}e^{14} + \frac{13}{349}\sqrt{434}e^{25}, \frac{26}{349}\sqrt{39}e^{15} + \frac{26}{349}\sqrt{34}e^{34}$	$(-\frac{13}{349}, \frac{65}{349}, -\frac{91}{349}, \frac{130}{349}, \frac{52}{349}, -\frac{104}{349}, -\frac{26}{349}, \frac{117}{349}, \frac{39}{349})$ $+ \frac{130}{349}\sqrt{6}e^2 \otimes e_6$	{123478, 1456789}
952:21	$0, 0, 0, 0, \frac{306}{1007}e^{12}, \frac{34}{1007}\sqrt{534}e^{13}, \frac{17}{1007}\sqrt{1290}e^{23},$ $\frac{204}{1007}\sqrt{7}e^{14} + \frac{17}{1007}\sqrt{966}e^{25}, \frac{289}{1007}\sqrt{6}e^{15} + \frac{17}{1007}\sqrt{1974}e^{34}$	$(-\frac{34}{1007}, \frac{255}{1007}, -\frac{17}{53}, \frac{510}{1007}, \frac{221}{1007}, -\frac{357}{1007}, -\frac{68}{1007}, \frac{476}{1007}, \frac{187}{1007})$ $+ \frac{34}{1007}\sqrt{1290}e^4 \otimes e_6$	{134, 2489}
952:21	$0, 0, 0, 0, \frac{1230}{3109}e^{12}, \frac{82}{3109}\sqrt{501}e^{13}, \frac{41}{3109}\sqrt{446}e^{23},$ $\frac{246}{3109}\sqrt{31}e^{14} + \frac{41}{3109}\sqrt{2222}e^{25}, \frac{41}{3109}\sqrt{2010}e^{15} + \frac{41}{3109}\sqrt{1554}e^{34}$	$(\frac{328}{3109}, -\frac{451}{3109}, \frac{1107}{3109}, -\frac{902}{3109}, \frac{123}{3109}, \frac{1435}{3109}, \frac{656}{3109}, -\frac{574}{3109}, \frac{205}{3109})$ $+ \frac{82}{3109}\sqrt{1338}e^3 \otimes e_8$	{1347, 24789}
952:21	$0, 0, 0, 0, \frac{10}{2797}\sqrt{193}e^{12}, \frac{5}{2797}\sqrt{618}e^{13}, \frac{5}{2797}\sqrt{4818}e^{23},$ $\frac{5}{2797}\sqrt{3710}e^{14} + \frac{5}{2797}\sqrt{3838}e^{25}, \frac{10}{2797}\sqrt{831}e^{15} + \frac{20}{2797}\sqrt{227}e^{34}$	$(-\frac{25}{2797}, \frac{65}{2797}, -\frac{115}{2797}, \frac{130}{2797}, \frac{40}{2797}, -\frac{140}{2797}, -\frac{50}{2797}, \frac{105}{2797}, \frac{15}{2797})$ $+ \frac{30}{2797}\sqrt{146}e^1 \otimes e_7$	{123568, 189}
952:22	$0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{15}{61}\sqrt{6}e^{13}, \frac{3}{61}\sqrt{66}e^{14},$ $\frac{6}{61}\sqrt{39}e^{15} + \frac{18}{61}\sqrt{3}e^{23}, \frac{9}{61}\sqrt{14}e^{25} + \frac{6}{61}\sqrt{39}e^{34}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, \frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^4 \otimes e_8$	{1278, 4679}
952:22	$0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{3}{61}\sqrt{174}e^{13}, \frac{3}{61}\sqrt{66}e^{14},$ $\frac{6}{61}\sqrt{42}e^{15} + \frac{18}{61}\sqrt{3}e^{23}, \frac{9}{61}\sqrt{22}e^{25} + \frac{6}{61}\sqrt{42}e^{34}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, \frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^2 \otimes e_6$	{12349, 368}
952:22	$0, 0, 0, 0, \frac{3}{925}\sqrt{858}e^{12}, \frac{3}{925}\sqrt{174}e^{13}, \frac{3}{925}\sqrt{4494}e^{14},$ $\frac{6}{925}\sqrt{906}e^{15} + \frac{72}{925}\sqrt{6}e^{23}, \frac{9}{925}\sqrt{346}e^{25} + \frac{6}{925}\sqrt{906}e^{34}$	$(\frac{6}{185}, -\frac{27}{925}, \frac{12}{185}, -\frac{84}{925}, \frac{3}{925}, \frac{18}{185}, -\frac{54}{925}, \frac{33}{925}, -\frac{24}{925})$ $+ \frac{216}{925}e^2 \otimes e_7$	{124568, 289}
952:23	$0, 0, 0, 0, \frac{76}{2101}\sqrt{3}e^{12}, \frac{38}{2101}\sqrt{1126}e^{13}, \frac{342}{2101}\sqrt{7}e^{24},$ $\frac{152}{2101}\sqrt{46}e^{15} + \frac{76}{2101}\sqrt{93}e^{23}, \frac{38}{2101}\sqrt{941}e^{25} + \frac{190}{2101}\sqrt{37}e^{34}$	$(-\frac{171}{2101}, \frac{19}{191}, -\frac{342}{2101}, \frac{589}{2101}, \frac{38}{2101}, -\frac{513}{2101}, \frac{798}{2101}, -\frac{133}{2101}, \frac{247}{2101})$ $+ \frac{38}{2101}\sqrt{1870}e^2 \otimes e_6$	{12349, 368}
952:23	$0, 0, 0, 0, \frac{18}{703}\sqrt{606}e^{12}, \frac{54}{703}\sqrt{86}e^{13}, \frac{18}{703}\sqrt{795}e^{24},$ $\frac{72}{703}\sqrt{15}e^{15} + \frac{72}{703}\sqrt{33}e^{23}, \frac{18}{703}\sqrt{303}e^{25} + \frac{18}{703}\sqrt{105}e^{34}$	$(\frac{117}{703}, -\frac{45}{703}, \frac{234}{703}, -\frac{207}{703}, \frac{72}{703}, \frac{351}{703}, -\frac{252}{703}, \frac{189}{703}, \frac{27}{703})$ $+ \frac{18}{703}\sqrt{1830}e^3 \otimes e_7$	{14679, 278}
952:23	$0, 0, 0, 0, \frac{76}{2101}\sqrt{3}e^{12}, \frac{76}{2101}\sqrt{186}e^{13}, \frac{342}{2101}\sqrt{7}e^{24},$ $\frac{342}{2101}\sqrt{14}e^{15} + \frac{76}{2101}\sqrt{93}e^{23}, \frac{38}{2101}\sqrt{929}e^{25} + \frac{114}{2101}\sqrt{105}e^{34}$	$(-\frac{171}{2101}, \frac{19}{191}, -\frac{342}{2101}, \frac{589}{2101}, \frac{38}{2101}, -\frac{513}{2101}, \frac{798}{2101}, -\frac{133}{2101}, \frac{247}{2101})$ $+ \frac{38}{2101}\sqrt{1870}e^4 \otimes e_8$	{1278, 4679}
952:23	$0, 0, 0, 0, \frac{44}{2219}\sqrt{501}e^{12}, \frac{132}{2219}\sqrt{61}e^{13}, \frac{44}{2219}\sqrt{919}e^{24},$ $\frac{44}{2219}\sqrt{883}e^{15} + \frac{176}{2219}\sqrt{47}e^{23}, \frac{44}{2219}\sqrt{227}e^{25} + \frac{88}{2219}\sqrt{15}e^{34}$	$(\frac{286}{2219}, -\frac{132}{2219}, \frac{572}{2219}, -\frac{550}{2219}, \frac{22}{317}, \frac{858}{2219}, -\frac{682}{2219}, \frac{440}{2219}, \frac{22}{2219})$ $+ \frac{44}{2219}\sqrt{1910}e^1 \otimes e_7$	{135, 34679}
952:24	$0, 0, 0, 0, \frac{148}{3749}\sqrt{93}e^{12}, \frac{666}{3749}\sqrt{6}e^{13},$ $\frac{37}{3749}\sqrt{2870}e^{14} + \frac{74}{3749}\sqrt{815}e^{23}, \frac{111}{3749}\sqrt{302}e^{25}, \frac{74}{3749}\sqrt{691}e^{15} + \frac{185}{3749}\sqrt{114}e^{24}$	$(\frac{185}{3749}, -\frac{592}{3749}, \frac{1147}{3749}, \frac{370}{3749}, -\frac{407}{3749}, \frac{1332}{3749}, \frac{555}{3749}, -\frac{999}{3749}, -\frac{222}{3749})$ $+ \frac{37}{3749}\sqrt{6778}e^3 \otimes e_9$	{2346, 459}
952:24	$0, 0, 0, 0, \frac{152}{1335}\sqrt{15}e^{12}, \frac{133}{1335}\sqrt{66}e^{13},$ $\frac{19}{1335}\sqrt{174}e^{14} + \frac{247}{1335}\sqrt{6}e^{23}, \frac{19}{267}\sqrt{114}e^{25}, \frac{38}{1335}\sqrt{393}e^{15} + \frac{19}{445}\sqrt{2}e^{24}$	$(\frac{38}{445}, -\frac{19}{89}, \frac{209}{445}, \frac{76}{445}, -\frac{57}{445}, \frac{247}{445}, \frac{114}{445}, -\frac{152}{445}, -\frac{19}{445})$ $+ \frac{19}{1335}\sqrt{6798}e^3 \otimes e_8$	{12359, 2789}
952:24	$0, 0, 0, 0, \frac{46}{2049}\sqrt{287}e^{12}, \frac{92}{2049}\sqrt{221}e^{13},$ $\frac{46}{2049}\sqrt{327}e^{14} + \frac{46}{2049}\sqrt{37}e^{23}, \frac{276}{683}\sqrt{2}e^{25}, \frac{92}{2049}\sqrt{526}e^{15} + \frac{92}{2049}\sqrt{167}e^{24}$	$(-\frac{23}{2049}, \frac{161}{683}, -\frac{184}{683}, -\frac{46}{2049}, \frac{460}{2049}, -\frac{575}{2049}, -\frac{23}{683}, \frac{943}{2049}, \frac{437}{2049})$ $+ \frac{46}{2049}\sqrt{1754}e^2 \otimes e_6$	{123478, 1456789, 245, 3469}
952:24	$0, 0, 0, 0, \frac{46}{2049}\sqrt{287}e^{12}, \frac{92}{2049}\sqrt{221}e^{13},$ $\frac{46}{2049}\sqrt{327}e^{14} + \frac{46}{2049}\sqrt{37}e^{23}, \frac{276}{683}\sqrt{2}e^{25}, \frac{46}{2049}\sqrt{526}e^{15} + \frac{92}{2049}\sqrt{167}e^{24}$	$(-\frac{23}{2049}, \frac{161}{683}, -\frac{184}{683}, -\frac{46}{2049}, \frac{460}{2049}, -\frac{575}{2049}, -\frac{23}{683}, \frac{943}{2049}, \frac{437}{2049})$ $- \frac{46}{2049}\sqrt{1754}e^2 \otimes e_6$	{123478, 1456789, 245, 3469}
952:24	$0, 0, 0, 0, \frac{92}{3581}\sqrt{177}e^{12}, \frac{46}{3581}\sqrt{1258}e^{13},$ $\frac{69}{3581}\sqrt{302}e^{14} + \frac{69}{3581}\sqrt{382}e^{23}, \frac{46}{3581}\sqrt{303}e^{25}, \frac{23}{3581}\sqrt{4382}e^{15} + \frac{46}{3581}\sqrt{1157}e^{24}$	$(-\frac{46}{3581}, \frac{437}{3581}, -\frac{575}{3581}, -\frac{92}{3581}, \frac{391}{3581}, -\frac{621}{3581}, -\frac{138}{3581}, \frac{828}{3581}, \frac{345}{3581})$ $+ \frac{23}{3581}\sqrt{6718}e^4 \otimes e_6$	{167, 3568}
952:24	$0, 0, 0, 0, \frac{148}{3749}\sqrt{93}e^{12}, \frac{666}{3749}\sqrt{6}e^{13},$ $\frac{74}{3749}\sqrt{977}e^{14} + \frac{37}{3749}\sqrt{3518}e^{23}, \frac{74}{3749}\sqrt{1015}e^{25}, \frac{111}{3749}\sqrt{446}e^{15} + \frac{185}{3749}\sqrt{114}e^{24}$	$(\frac{185}{3749}, -\frac{592}{3749}, \frac{1147}{3749}, \frac{370}{3749}, -\frac{407}{3749}, \frac{1332}{3749}, \frac{555}{3749}, -\frac{999}{3749}, -\frac{222}{3749})$ $+ \frac{37}{3749}\sqrt{6778}e^4 \otimes e_8$	{289, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:25	$0, 0, 0, 0, \frac{10}{41}\sqrt{3}e^{12}, \frac{1}{41}\sqrt{465}e^{13}, \frac{5}{41}\sqrt{3}e^{34},$ $\frac{1}{41}\sqrt{255}e^{15} + \frac{7}{41}\sqrt{15}e^{23}, \frac{7}{41}\sqrt{15}e^{14} + \frac{6}{41}\sqrt{15}e^{25}$	$(-\frac{4}{41}, \frac{7}{41}, -\frac{8}{41}, \frac{14}{41}, \frac{3}{41}, -\frac{12}{41}, \frac{6}{41}, -\frac{1}{41}, \frac{10}{41})$ $+\frac{15}{41}\sqrt{5}e^4 \otimes e_8$	{136789, 3578}
952:25	$0, 0, 0, 0, \frac{45}{191}\sqrt{2}e^{12}, \frac{1}{191}\sqrt{210}e^{13}, \frac{45}{191}\sqrt{2}e^{34},$ $\frac{11}{191}\sqrt{30}e^{15} + \frac{6}{191}\sqrt{115}e^{23}, \frac{1}{191}\sqrt{2490}e^{14} + \frac{6}{191}\sqrt{35}e^{25}$	$(\frac{11}{191}, -\frac{13}{191}, \frac{22}{191}, -\frac{26}{191}, -\frac{2}{191}, \frac{33}{191}, -\frac{4}{191}, \frac{9}{191}, -\frac{15}{191})$ $+\frac{15}{191}\sqrt{22}e^1 \otimes e_7$	{123489, 13459}
952:25	$0, 0, 0, 0, \frac{1}{77}\sqrt{2046}e^{12}, \frac{5}{77}\sqrt{66}e^{13}, \frac{4}{77}\sqrt{33}e^{34},$ $\frac{1}{77}\sqrt{2310}e^{15} + \frac{2}{77}\sqrt{627}e^{23}, \frac{2}{77}\sqrt{627}e^{14} + \frac{6}{77}\sqrt{22}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, \frac{3}{7}, 0, \frac{1}{7}, -\frac{1}{7})$ $+\frac{3}{77}\sqrt{506}e^3 \otimes e_9$	{2489, 459}
952:25	$0, 0, 0, 0, \frac{51}{887}\sqrt{78}e^{12}, \frac{170}{887}\sqrt{15}e^{13}, \frac{102}{887}\sqrt{22}e^{34},$ $\frac{17}{887}\sqrt{714}e^{15} + \frac{34}{887}\sqrt{6}e^{23}, \frac{119}{887}\sqrt{30}e^{14} + \frac{102}{887}e^{25}$	$(-\frac{119}{887}, \frac{255}{887}, -\frac{238}{887}, \frac{510}{887}, \frac{136}{887}, -\frac{357}{887}, \frac{272}{887}, \frac{17}{887}, \frac{391}{887})$ $+\frac{51}{887}\sqrt{498}e^4 \otimes e_6$	{123458, 134}
952:25	$0, 0, 0, 0, \frac{39}{917}\sqrt{206}e^{12}, \frac{13}{917}\sqrt{2022}e^{13}, \frac{156}{917}\sqrt{2}e^{34},$ $\frac{52}{917}\sqrt{39}e^{15} + \frac{13}{917}\sqrt{258}e^{23}, \frac{52}{917}\sqrt{114}e^{14} + \frac{156}{917}\sqrt{19}e^{25}$	$(-\frac{104}{917}, \frac{195}{917}, -\frac{208}{917}, \frac{390}{917}, \frac{13}{917}, -\frac{312}{917}, \frac{26}{917}, \frac{131}{917}, -\frac{13}{917}, \frac{286}{917})$ $+\frac{117}{917}\sqrt{58}e^2 \otimes e_6$	{1456789, 2457}
952:25	$0, 0, 0, 0, \frac{6}{235}\sqrt{30}e^{12}, \frac{1}{235}\sqrt{267}e^{13}, \frac{6}{235}\sqrt{30}e^{34},$ $\frac{1}{235}\sqrt{381}e^{15} + \frac{24}{235}e^{23}, \frac{1}{235}\sqrt{987}e^{14} + \frac{12}{235}\sqrt{6}e^{25}$	$(-\frac{1}{47}, \frac{7}{235}, -\frac{2}{47}, \frac{14}{235}, \frac{2}{235}, -\frac{3}{47}, \frac{4}{235}, -\frac{3}{235}, \frac{9}{235})$ $+\frac{3}{235}\sqrt{137}e^2 \otimes e_7$	{1234689, 23458}
952:26	$0, 0, 0, 0, \frac{6}{65}\sqrt{51}e^{12}, \frac{12}{65}\sqrt{15}e^{13}, \frac{6}{65}\sqrt{21}e^{34},$ $\frac{3}{65}\sqrt{183}e^{15} - \frac{9}{65}\sqrt{29}e^{24}, \frac{3}{65}\sqrt{141}e^{14} + \frac{9}{65}\sqrt{7}e^{25}$	$(\frac{6}{65}, \frac{6}{65}, -\frac{21}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{13}, -\frac{9}{65}, \frac{18}{65}, \frac{18}{65})$ $+\frac{18}{65}\sqrt{10}e^4 \otimes e_6$	{1256789, 1679, 2368, 356, 1256789, 1679, 2368, 356}
952:26	$0, 0, 0, 0, \frac{6}{65}\sqrt{51}e^{12}, \frac{12}{65}\sqrt{15}e^{13}, \frac{6}{65}\sqrt{21}e^{34},$ $\frac{3}{65}\sqrt{183}e^{15} + \frac{9}{65}\sqrt{29}e^{24}, \frac{3}{65}\sqrt{141}e^{14} + \frac{9}{65}\sqrt{7}e^{25}$	$(\frac{6}{65}, \frac{6}{65}, -\frac{21}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{13}, -\frac{9}{65}, \frac{18}{65}, \frac{18}{65})$ $+\frac{18}{65}\sqrt{10}e^4 \otimes e_6$	{1256789, 1679, 2368, 356, 1256789, 1679, 2368, 356}
952:26	$0, 0, 0, 0, \frac{6}{19}\sqrt{2}e^{12}, \frac{1}{19}\sqrt{33}e^{13}, \frac{6}{19}\sqrt{2}e^{34},$ $\frac{1}{19}\sqrt{21}e^{15} - \frac{3}{19}\sqrt{2}e^{24}, \frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+\frac{3}{19}\sqrt{11}e^2 \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:26	$0, 0, 0, 0, \frac{6}{19}\sqrt{2}e^{12}, \frac{1}{19}\sqrt{33}e^{13}, \frac{6}{19}\sqrt{2}e^{34},$ $\frac{1}{19}\sqrt{21}e^{15} + \frac{3}{19}\sqrt{2}e^{24}, \frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+\frac{3}{19}\sqrt{11}e^2 \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:26	$0, 0, 0, 0, \frac{4}{37}\sqrt{6}e^{12}, \frac{6}{37}\sqrt{14}e^{13}, \frac{2}{37}\sqrt{102}e^{34},$ $\frac{12}{37}\sqrt{3}e^{15} - \frac{4}{37}\sqrt{33}e^{24}, \frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+\frac{6}{37}\sqrt{42}e^3 \otimes e_8$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}
952:26	$0, 0, 0, 0, \frac{4}{37}\sqrt{6}e^{12}, \frac{6}{37}\sqrt{14}e^{13}, \frac{2}{37}\sqrt{102}e^{34},$ $\frac{12}{37}\sqrt{3}e^{15} + \frac{4}{37}\sqrt{33}e^{24}, \frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+\frac{6}{37}\sqrt{42}e^3 \otimes e_8$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}
952:26	$0, 0, 0, 0, \frac{10}{281}\sqrt{30}e^{12}, \frac{60}{281}\sqrt{7}e^{13}, \frac{40}{281}\sqrt{6}e^{34},$ $\frac{15}{281}\sqrt{67}e^{15} - \frac{5}{281}\sqrt{789}e^{24}, \frac{5}{281}\sqrt{471}e^{14} + \frac{15}{281}\sqrt{73}e^{25}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{55}{281}, -\frac{35}{281}, \frac{60}{281}, \frac{60}{281})$ $+\frac{30}{281}\sqrt{42}e^2 \otimes e_6$	{123479, 145689, 245, 34678, 123479, 145689, 245, 34678}
952:26	$0, 0, 0, 0, \frac{10}{281}\sqrt{30}e^{12}, \frac{60}{281}\sqrt{7}e^{13}, \frac{40}{281}\sqrt{6}e^{34},$ $\frac{15}{281}\sqrt{67}e^{15} + \frac{5}{281}\sqrt{789}e^{24}, \frac{5}{281}\sqrt{471}e^{14} + \frac{15}{281}\sqrt{73}e^{25}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{55}{281}, -\frac{35}{281}, \frac{60}{281}, \frac{60}{281})$ $+\frac{30}{281}\sqrt{42}e^2 \otimes e_6$	{123479, 145689, 245, 34678, 123479, 145689, 245, 34678}
952:26	$0, 0, 0, 0, \frac{4}{37}\sqrt{6}e^{12}, \frac{6}{37}\sqrt{14}e^{13}, \frac{2}{37}\sqrt{102}e^{34},$ $\frac{18}{37}e^{15} - \frac{2}{37}\sqrt{57}e^{24}, \frac{2}{37}\sqrt{69}e^{14} + \frac{6}{37}\sqrt{19}e^{25}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+\frac{6}{37}\sqrt{42}e^3 \otimes e_9$	{123458, 134, 24789, 4579, 123458, 134, 24789, 4579}
952:26	$0, 0, 0, 0, \frac{4}{37}\sqrt{6}e^{12}, \frac{6}{37}\sqrt{14}e^{13}, \frac{2}{37}\sqrt{102}e^{34},$ $\frac{18}{37}e^{15} + \frac{2}{37}\sqrt{57}e^{24}, \frac{2}{37}\sqrt{69}e^{14} + \frac{6}{37}\sqrt{19}e^{25}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+\frac{6}{37}\sqrt{42}e^3 \otimes e_9$	{123458, 134, 24789, 4579, 123458, 134, 24789, 4579}
952:26	$0, 0, 0, 0, \frac{6}{19}\sqrt{2}e^{12}, \frac{1}{19}\sqrt{33}e^{13}, \frac{6}{19}\sqrt{2}e^{34},$ $\frac{1}{38}\sqrt{282}e^{15} - \frac{3}{38}\sqrt{30}e^{24}, \frac{1}{38}\sqrt{6}e^{14} + \frac{3}{38}\sqrt{2}e^{25}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+\frac{3}{19}\sqrt{11}e^1 \otimes e_7$	{1234689, 134569, 245678, 467, 1234689, 134569, 245678, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:26	$0, 0, 0, 0, \frac{6}{19}\sqrt{2e^{12}}, \frac{1}{19}\sqrt{33e^{13}}, \frac{6}{19}\sqrt{2e^{34}},$ $\frac{1}{38}\sqrt{282e^{15}} + \frac{3}{38}\sqrt{30e^{24}}, \frac{1}{38}\sqrt{6e^{14}} + \frac{3}{38}\sqrt{2e^{25}}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{3}{19}\sqrt{11e^1} \otimes e_7$	{1234689, 134569, 245678, 467, 1234689, 134569, 245678, 467}
952:28	$0, 0, 0, 0, \frac{28}{211}\sqrt{6e^{12}}, \frac{14}{211}\sqrt{29e^{13}}, \frac{14}{211}\sqrt{65e^{23}},$ $\frac{7}{211}\sqrt{231e^{15}} - \frac{7}{211}\sqrt{193e^{24}}, \frac{7}{211}\sqrt{183e^{14}} + \frac{7}{211}\sqrt{145e^{25}}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{14}{211}\sqrt{94e^1} \otimes e_7$	{123468, 145, 2456789, 3479, 123468, 145, 2456789, 3479}
952:28	$0, 0, 0, 0, \frac{28}{211}\sqrt{6e^{12}}, \frac{14}{211}\sqrt{29e^{13}}, \frac{14}{211}\sqrt{65e^{23}},$ $\frac{7}{211}\sqrt{231e^{15}} + \frac{7}{211}\sqrt{193e^{24}}, \frac{7}{211}\sqrt{183e^{14}} + \frac{7}{211}\sqrt{145e^{25}}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{14}{211}\sqrt{94e^1} \otimes e_7$	{123468, 145, 2456789, 3479, 123468, 145, 2456789, 3479}
952:28	$0, 0, 0, 0, \frac{4}{37}\sqrt{23e^{12}}, \frac{2}{37}\sqrt{115e^{13}}, \frac{2}{37}\sqrt{115e^{23}},$ $\frac{1}{37}\sqrt{391e^{15}} - \frac{5}{37}\sqrt{23e^{24}}, \frac{1}{37}\sqrt{161e^{14}} + \frac{1}{37}\sqrt{345e^{25}}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{17}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{15}{37}, \frac{15}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+ \frac{8}{37}\sqrt{23e^3} \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:28	$0, 0, 0, 0, \frac{4}{37}\sqrt{23e^{12}}, \frac{2}{37}\sqrt{115e^{13}}, \frac{2}{37}\sqrt{115e^{23}},$ $\frac{1}{37}\sqrt{391e^{15}} + \frac{5}{37}\sqrt{23e^{24}}, \frac{1}{37}\sqrt{161e^{14}} + \frac{1}{37}\sqrt{345e^{25}}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{17}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{15}{37}, \frac{15}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+ \frac{8}{37}\sqrt{23e^3} \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:28	$0, 0, 0, 0, \frac{408}{779}e^{12}, \frac{170}{779}\sqrt{10e^{13}}, \frac{204}{779}\sqrt{3e^{23}},$ $\frac{17}{779}\sqrt{719e^{15}} - \frac{17}{779}\sqrt{1001e^{24}}, \frac{17}{779}\sqrt{285e^{14}} + \frac{17}{779}\sqrt{3e^{25}}$	$(\frac{68}{779}, \frac{68}{779}, -\frac{221}{779}, \frac{136}{779}, \frac{136}{779}, -\frac{153}{779}, -\frac{153}{779}, \frac{204}{779}, \frac{204}{779})$ $+ \frac{34}{779}\sqrt{358e^4} \otimes e_6$	{125689, 1679, 23678, 356, 125689, 1679, 23678, 356}
952:28	$0, 0, 0, 0, \frac{408}{779}e^{12}, \frac{170}{779}\sqrt{10e^{13}}, \frac{204}{779}\sqrt{3e^{23}},$ $\frac{17}{779}\sqrt{719e^{15}} + \frac{17}{779}\sqrt{1001e^{24}}, \frac{17}{779}\sqrt{285e^{14}} + \frac{17}{779}\sqrt{3e^{25}}$	$(\frac{68}{779}, \frac{68}{779}, -\frac{221}{779}, \frac{136}{779}, \frac{136}{779}, -\frac{153}{779}, -\frac{153}{779}, \frac{204}{779}, \frac{204}{779})$ $+ \frac{34}{779}\sqrt{358e^4} \otimes e_6$	{125689, 1679, 23678, 356, 125689, 1679, 23678, 356}
952:29	$0, 0, 0, 0, \frac{2}{19}\sqrt{15e^{12}}, \frac{3}{19}\sqrt{5e^{13}}, \frac{2}{19}\sqrt{15e^{24}},$ $\frac{1}{19}\sqrt{95e^{15}} + \frac{1}{19}\sqrt{105e^{23}}, \frac{1}{19}\sqrt{105e^{14}} + \frac{3}{19}\sqrt{5e^{25}}$	$(\frac{2}{19}, -\frac{3}{38}, \frac{4}{19}, -\frac{3}{19}, \frac{1}{38}, \frac{6}{19}, -\frac{9}{38}, \frac{5}{38}, -\frac{1}{19})$ $+ \frac{5}{19}\sqrt{7e^3} \otimes e_9$	{24789, 459}
952:29	$0, 0, 0, 0, \frac{8}{383}\sqrt{515e^{12}}, \frac{8}{383}\sqrt{515e^{13}}, \frac{104}{383}\sqrt{5e^{24}},$ $\frac{104}{383}\sqrt{5e^{15}} + \frac{8}{383}\sqrt{770e^{23}}, \frac{16}{383}\sqrt{55e^{14}} + \frac{8}{383}\sqrt{145e^{25}}$	$(\frac{52}{383}, -\frac{36}{383}, \frac{104}{383}, -\frac{72}{383}, \frac{16}{383}, \frac{156}{383}, \frac{108}{383}, \frac{68}{383}, -\frac{20}{383})$ $+ \frac{40}{383}\sqrt{66e^1} \otimes e_7$	{135, 2356789}
952:29	$0, 0, 0, 0, \frac{10}{181}\sqrt{130e^{12}}, \frac{10}{181}\sqrt{185e^{13}}, \frac{10}{181}\sqrt{185e^{24}},$ $\frac{5}{181}\sqrt{205e^{15}} + \frac{10}{181}\sqrt{105e^{23}}, \frac{5}{181}\sqrt{105e^{14}} + \frac{5}{181}\sqrt{205e^{25}}$	$(\frac{65}{362}, -\frac{20}{181}, \frac{65}{181}, -\frac{40}{181}, \frac{25}{362}, \frac{195}{362}, -\frac{60}{181}, \frac{45}{181}, -\frac{15}{362})$ $+ \frac{75}{181}\sqrt{7e^3} \otimes e_7$	{14679, 457}
952:32	$0, 0, 0, 0, \frac{4}{49}\sqrt{55e^{12}}, \frac{4}{49}\sqrt{55e^{13}}, \frac{6}{49}\sqrt{10e^{23}}, \frac{2}{49}\sqrt{190e^{15}},$ $\frac{2}{49}\sqrt{190e^{16}}$	$(\frac{8}{49}, \frac{2}{49}, \frac{2}{49}, -\frac{32}{49}, \frac{10}{49}, \frac{10}{49}, \frac{4}{49}, \frac{18}{49}, \frac{18}{49})$ $+ \frac{18}{49}\sqrt{10e^1} \otimes e_4$	{123789, 1268, 1567, 23456789, 2458, 47}
952:32	$0, 0, 0, 0, \frac{2}{181}\sqrt{185e^{12}}, \frac{2}{181}\sqrt{185e^{13}}, \frac{2}{181}\sqrt{2109e^{23}}, \frac{4}{181}\sqrt{222e^{15}},$ $\frac{4}{181}\sqrt{222e^{16}}$	$(-\frac{37}{181}, \frac{39}{181}, \frac{39}{181}, \frac{21}{181}, \frac{2}{181}, \frac{2}{181}, \frac{78}{181}, -\frac{35}{181}, -\frac{35}{181})$ $+ \frac{8}{181}\sqrt{185e^2} \otimes e_9 + \frac{8}{181}\sqrt{185e^3} \otimes e_8$	{124678, 12678, 24578, 2578}
952:32	$0, 0, 0, 0, \frac{2}{181}\sqrt{185e^{12}}, \frac{2}{181}\sqrt{185e^{13}}, \frac{2}{181}\sqrt{2109e^{23}}, \frac{4}{181}\sqrt{222e^{15}},$ $\frac{4}{181}\sqrt{222e^{16}}$	$(-\frac{37}{181}, \frac{39}{181}, \frac{39}{181}, \frac{21}{181}, \frac{2}{181}, \frac{2}{181}, \frac{78}{181}, -\frac{35}{181}, -\frac{35}{181})$ $+ \frac{8}{181}\sqrt{185e^2} \otimes e_9 - \frac{8}{181}\sqrt{185e^3} \otimes e_8$	{124678, 12678, 24578, 2578}
952:32	$0, 0, 0, 0, \frac{8}{49}\sqrt{5e^{12}}, \frac{4}{49}\sqrt{6e^{13}}, \frac{12}{49}e^{23}, \frac{12}{49}e^{15}, \frac{4}{49}\sqrt{23e^{16}}$	$(-\frac{1}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{17}{49}, \frac{11}{49}, -\frac{3}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+ \frac{12}{49}\sqrt{5e^1} \otimes e_4 + \frac{4}{49}\sqrt{42e^2} \otimes e_9$	{12678, 13579, 24578, 34679}
952:32	$0, 0, 0, 0, \frac{2}{3373}\sqrt{366595e^{12}}, \frac{2}{3373}\sqrt{39695e^{13}}, \frac{18}{3373}\sqrt{5137e^{23}},$ $\frac{2}{3373}\sqrt{302149e^{15}}, \frac{4}{3373}\sqrt{24751e^{16}}$	$(\frac{509}{3373}, \frac{5}{3373}, -\frac{430}{3373}, \frac{929}{3373}, \frac{514}{3373}, \frac{79}{3373}, -\frac{425}{3373}, \frac{1023}{3373}, \frac{588}{3373})$ $+ \frac{12}{3373}\sqrt{21949e^1} \otimes e_7 + \frac{6}{3373}\sqrt{67715e^2} \otimes e_4$	{12368, 1459, 256789, 347}
952:32	$0, 0, 0, 0, \frac{1}{278}\sqrt{24211e^{12}}, \frac{1}{278}\sqrt{27962e^{13}}, \frac{3}{139}\sqrt{341e^{23}}, \frac{1}{139}\sqrt{20119e^{15}},$ $\frac{1}{278}\sqrt{23870e^{16}}$	$(-\frac{29}{278}, -\frac{5}{278}, \frac{143}{556}, 1, -\frac{17}{139}, \frac{85}{556}, \frac{133}{556}, -\frac{63}{278}, \frac{27}{556})$ $+ \frac{3}{278}\sqrt{17391e^4} \otimes e_8$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}
952:32	$0, 0, 0, 0, \frac{2}{2809}\sqrt{344955e^{12}}, \frac{2}{2809}\sqrt{310063e^{13}}, \frac{10}{2809}\sqrt{18239e^{23}},$ $\frac{26}{2809}\sqrt{2318e^{15}}, \frac{4}{2809}\sqrt{55510e^{16}}$	$(-\frac{487}{2809}, \frac{759}{2809}, \frac{147}{2809}, \frac{1371}{2809}, \frac{272}{2809}, -\frac{340}{2809}, \frac{906}{2809}, -\frac{215}{2809}, -\frac{827}{2809})$ $+ \frac{104}{2809}\sqrt{305e^4} \otimes e_8 + \frac{2}{2809}\sqrt{1140334e^2} \otimes e_9$	{12368, 1459, 2358, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:32	$0, 0, 0, 0, \frac{1}{407}\sqrt{30910}e^{12}, \frac{1}{407}\sqrt{30910}e^{13}, \frac{3}{407}\sqrt{6182}e^{23}, \frac{4}{407}\sqrt{3091}e^{15}, \frac{4}{407}\sqrt{3091}e^{16}$	$(\frac{11}{37}, -\frac{80}{407}, -\frac{80}{407}, \frac{2}{11}, \frac{41}{407}, \frac{41}{407}, -\frac{160}{407}, \frac{162}{407}, \frac{162}{407}) + \frac{3}{407}\sqrt{20794}e^1 \otimes e_7$	{123489, 12389, 1456, 156, 24578, 2578}
952:32	$0, 0, 0, 0, \frac{4}{3241}\sqrt{66019}e^{12}, \frac{2}{3241}\sqrt{36403}e^{13}, \frac{6}{3241}\sqrt{37637}e^{23}, \frac{4}{463}\sqrt{3085}e^{15}, \frac{22}{3241}\sqrt{1234}e^{16}$	$(\frac{425}{3241}, -\frac{589}{3241}, -\frac{220}{3241}, \frac{1495}{3241}, -\frac{164}{3241}, \frac{205}{3241}, -\frac{809}{3241}, \frac{261}{3241}, \frac{90}{463}) + \frac{6}{3241}\sqrt{119698}e^1 \otimes e_7 + \frac{6}{3241}\sqrt{75891}e^4 \otimes e_8$	{12389, 1456, 2578, 34679}
952:32	$0, 0, 0, 0, \frac{4}{375}\sqrt{1419}e^{12}, \frac{4}{375}\sqrt{1419}e^{13}, \frac{1}{375}\sqrt{133386}e^{23}, \frac{1}{375}\sqrt{21758}e^{15}, \frac{1}{375}\sqrt{21758}e^{16}$	$(\frac{14}{75}, -\frac{49}{375}, -\frac{49}{375}, 1, \frac{7}{375}, \frac{7}{375}, -\frac{98}{375}, \frac{91}{375}, \frac{91}{375}) + \frac{1}{375}\sqrt{290422}e^4 \otimes e_7$	{123456, 12579, 1489, 234, 2679, 45689}
952:32	$0, 0, 0, 0, \frac{2}{3609}\sqrt{177790}e^{12}, \frac{2}{3609}\sqrt{296059}e^{13}, \frac{2}{3609}\sqrt{969342}e^{23}, \frac{2}{3609}\sqrt{27055}e^{15}, \frac{4}{401}\sqrt{1546}e^{16}$	$(-\frac{160}{3609}, \frac{725}{3609}, -\frac{167}{1203}, \frac{590}{1203}, \frac{565}{3609}, -\frac{661}{3609}, \frac{224}{3609}, \frac{45}{401}, -\frac{821}{3609}) + \frac{20}{3609}\sqrt{10822}e^4 \otimes e_7 + \frac{2}{3609}\sqrt{1421547}e^2 \otimes e_9$	{123468, 1459, 23458, 469}
952:32	$0, 0, 0, 0, \frac{2}{281}\sqrt{14065}e^{12}, \frac{2}{281}\sqrt{8555}e^{13}, \frac{18}{281}\sqrt{145}e^{23}, \frac{2}{281}\sqrt{6670}e^{15}, \frac{8}{281}\sqrt{290}e^{16}$	$(-\frac{5}{281}, \frac{103}{281}, \frac{25}{281}, -\frac{187}{281}, \frac{98}{281}, \frac{20}{281}, \frac{128}{281}, \frac{93}{281}, \frac{15}{281}) + \frac{6}{281}\sqrt{3770}e^2 \otimes e_4$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}
952:32	$0, 0, 0, 0, \frac{4}{3769}\sqrt{42485}e^{12}, \frac{2}{3769}\sqrt{16701}e^{13}, \frac{12}{3769}\sqrt{8497}e^{23}, \frac{18}{3769}\sqrt{1465}e^{15}, \frac{8}{3769}\sqrt{16994}e^{16}$	$(\frac{230}{3769}, \frac{345}{3769}, -\frac{701}{3769}, \frac{400}{3769}, \frac{575}{3769}, -\frac{471}{3769}, -\frac{356}{3769}, \frac{805}{3769}, -\frac{241}{3769}) + \frac{2}{3769}\sqrt{459717}e^2 \otimes e_9 + \frac{60}{3769}\sqrt{586}e^1 \otimes e_7$	{24578, 2578, 34679, 3679}
952:32	$0, 0, 0, 0, \frac{6}{3041}\sqrt{23433}e^{12}, \frac{6}{3041}\sqrt{4015}e^{13}, \frac{30}{3041}\sqrt{2701}e^{23}, \frac{12}{3041}\sqrt{12410}e^{15}, \frac{24}{3041}\sqrt{1022}e^{16}$	$(-\frac{393}{3041}, \frac{363}{3041}, \frac{891}{3041}, -\frac{951}{3041}, -\frac{30}{3041}, \frac{498}{3041}, \frac{1254}{3041}, -\frac{423}{3041}, \frac{105}{3041}) + \frac{12}{3041}\sqrt{26134}e^3 \otimes e_8 + \frac{96}{3041}\sqrt{365}e^2 \otimes e_4$	{1278, 1345679, 25678, 3479}
952:33	$0, 0, 0, 0, \frac{20}{3369}\sqrt{1991}e^{12}, \frac{2}{3369}\sqrt{507705}e^{13}, \frac{22}{3369}\sqrt{2715}e^{23}, \frac{4}{1123}\sqrt{9955}e^{25}, \frac{2}{3369}\sqrt{617210}e^{16}$	$(\frac{803}{3369}, -\frac{177}{1123}, -\frac{476}{3369}, \frac{517}{1123}, \frac{272}{3369}, \frac{109}{1123}, -\frac{1007}{3369}, -\frac{259}{3369}, \frac{1130}{3369}) + \frac{2}{1123}\sqrt{182810}e^1 \otimes e_7 + \frac{2}{3369}\sqrt{998215}e^4 \otimes e_8$	{12389, 1568, 2457, 34679}
952:33	$0, 0, 0, 0, \frac{2}{937}\sqrt{13685}e^{12}, \frac{2}{937}\sqrt{14329}e^{13}, \frac{26}{937}\sqrt{161}e^{23}, \frac{32}{937}\sqrt{161}e^{25}, \frac{2}{937}\sqrt{966}e^{16}$	$(-\frac{77}{937}, \frac{9}{937}, \frac{263}{937}, -\frac{313}{937}, -\frac{68}{937}, \frac{186}{937}, \frac{272}{937}, -\frac{59}{937}, \frac{109}{937}) + \frac{2}{937}\sqrt{67298}e^3 \otimes e_8 + \frac{8}{937}\sqrt{4186}e^2 \otimes e_4$	{12678, 14568, 23569, 34679}
952:33	$0, 0, 0, 0, \frac{2}{143}\sqrt{1479}e^{12}, \frac{2}{143}\sqrt{561}e^{13}, \frac{2}{143}\sqrt{1479}e^{23}, \frac{2}{143}\sqrt{1938}e^{25}, \frac{2}{143}\sqrt{1938}e^{16}$	$(-\frac{31}{143}, \frac{47}{143}, \frac{7}{143}, \frac{25}{143}, \frac{16}{143}, -\frac{24}{143}, \frac{54}{143}, \frac{63}{143}, -\frac{5}{13}) + \frac{2}{143}\sqrt{6018}e^2 \otimes e_9$	{123468, 12368, 14589, 1589, 2345, 235, 469, 69}
952:33	$0, 0, 0, 0, \frac{2}{333}\sqrt{195}e^{12}, \frac{2}{333}\sqrt{3445}e^{13}, \frac{4}{333}\sqrt{910}e^{23}, \frac{2}{333}\sqrt{390}e^{25}, \frac{8}{333}\sqrt{455}e^{16}$	$(\frac{50}{333}, -\frac{1}{37}, -\frac{71}{333}, \frac{53}{111}, \frac{41}{333}, -\frac{7}{111}, -\frac{80}{333}, \frac{32}{333}, \frac{29}{333}) + \frac{2}{333}\sqrt{65}e^4 \otimes e_9 + \frac{2}{333}\sqrt{11310}e^1 \otimes e_7$	{123589, 1468, 247, 35679}
952:33	$0, 0, 0, 0, \frac{8}{3791}\sqrt{15510}e^{12}, \frac{24}{3791}\sqrt{1786}e^{13}, \frac{48}{3791}\sqrt{1457}e^{23}, \frac{8}{3791}\sqrt{21385}e^{25}, \frac{8}{3791}\sqrt{33699}e^{16}$	$(-\frac{285}{3791}, \frac{580}{3791}, -\frac{354}{3791}, \frac{1730}{3791}, \frac{295}{3791}, -\frac{639}{3791}, \frac{226}{3791}, \frac{875}{3791}, -\frac{924}{3791}) + \frac{24}{3791}\sqrt{10763}e^2 \otimes e_9 + \frac{8}{3791}\sqrt{61570}e^4 \otimes e_7$	{123468, 14589, 2345, 469}
952:33	$0, 0, 0, 0, \frac{4}{103}\sqrt{21}e^{12}, \frac{1}{103}\sqrt{546}e^{13}, \frac{1}{103}\sqrt{2226}e^{23}, \frac{2}{103}\sqrt{273}e^{25}, \frac{1}{103}\sqrt{1722}e^{16}$	$(-\frac{37}{206}, \frac{22}{103}, \frac{17}{103}, -\frac{25}{103}, \frac{7}{206}, -\frac{3}{206}, \frac{39}{103}, \frac{51}{206}, -\frac{20}{103}) + \frac{15}{103}\sqrt{14}e^3 \otimes e_4 + \frac{2}{103}\sqrt{1113}e^2 \otimes e_9$	{124678, 135789, 2457, 3679}
952:33	$0, 0, 0, 0, \frac{118}{1375}\sqrt{3}e^{12}, \frac{2}{1375}\sqrt{66729}e^{13}, \frac{6}{1375}\sqrt{5959}e^{23}, \frac{4}{1375}\sqrt{6549}e^{25}, \frac{2}{1375}\sqrt{49737}e^{16}$	$(\frac{37}{275}, -\frac{236}{1375}, \frac{67}{1375}, \frac{156}{1375}, -\frac{51}{1375}, \frac{252}{1375}, -\frac{169}{1375}, -\frac{287}{1375}, \frac{437}{1375}) + \frac{4}{1375}\sqrt{27789}e^1 \otimes e_7 + \frac{6}{1375}\sqrt{11623}e^3 \otimes e_8$	{123459, 12359, 2478, 278}
952:33	$0, 0, 0, 0, \frac{1}{1433}\sqrt{242034}e^{12}, \frac{4}{1433}\sqrt{46371}e^{13}, \frac{6}{1433}\sqrt{21489}e^{23}, \frac{2}{1433}\sqrt{15834}e^{25}, \frac{26}{1433}\sqrt{1479}e^{16}$	$(\frac{556}{1433}, -\frac{163}{1433}, -\frac{412}{1433}, \frac{258}{1433}, \frac{393}{1433}, \frac{144}{1433}, -\frac{575}{1433}, \frac{230}{1433}, \frac{700}{1433}) + \frac{5}{1433}\sqrt{106314}e^1 \otimes e_7$	{12349, 1239, 1456, 156, 24578, 2578, 346789, 36789}
952:33	$0, 0, 0, 0, \frac{2}{3841}\sqrt{382193}e^{12}, \frac{2}{3841}\sqrt{185381}e^{13}, \frac{2}{3841}\sqrt{68089}e^{23}, \frac{4}{3841}\sqrt{87969}e^{25}, \frac{64}{3841}\sqrt{497}e^{16}$	$(-\frac{141}{3841}, \frac{647}{3841}, -\frac{65}{3841}, -\frac{1135}{3841}, \frac{22}{167}, -\frac{206}{3841}, \frac{582}{3841}, \frac{1153}{3841}, -\frac{347}{3841}) + \frac{4}{3841}\sqrt{196315}e^1 \otimes e_4 + \frac{4}{3841}\sqrt{225638}e^2 \otimes e_9$	{12678, 135789, 2457, 34679}
952:33	$0, 0, 0, 0, \frac{2}{2167}\sqrt{50065}e^{12}, \frac{1}{2167}\sqrt{646}e^{13}, \frac{1}{2167}\sqrt{321062}e^{23}, \frac{7}{2167}\sqrt{3230}e^{25}, \frac{1}{2167}\sqrt{399874}e^{16}$	$(\frac{120}{2167}, \frac{180}{2167}, -\frac{383}{2167}, \frac{235}{2167}, \frac{300}{2167}, -\frac{263}{2167}, -\frac{203}{2167}, \frac{480}{2167}, -\frac{13}{197}) + \frac{17}{2167}\sqrt{2090}e^1 \otimes e_7 + \frac{1}{2167}\sqrt{644062}e^2 \otimes e_9$	{2457, 257, 34679, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:33	$0, 0, 0, 0, \frac{13}{114}\sqrt{11}e^{12}, \frac{1}{38}\sqrt{286}e^{13}, \frac{1}{57}\sqrt{858}e^{23}, \frac{1}{57}\sqrt{3003}e^{25},$ $\frac{1}{114}\sqrt{1430}e^{16}$	$(\frac{1}{114}, -\frac{5}{38}, \frac{49}{228}, 1, -\frac{7}{57}, \frac{17}{76}, \frac{1}{12}, -\frac{29}{114}, \frac{53}{228})$ $+\frac{1}{114}\sqrt{26455}e^4 \otimes e_8$	{123789, 1268, 13589, 15678, 2345679, 245, 3469, 47}
952:33	$0, 0, 0, 0, \frac{2}{3801}\sqrt{542235}e^{12}, \frac{10}{3801}\sqrt{32241}e^{13}, \frac{2}{3801}\sqrt{493385}e^{23},$ $\frac{16}{3801}\sqrt{9770}e^{25}, \frac{2}{3801}\sqrt{779646}e^{16}$	$(-\frac{605}{3801}, -\frac{127}{3801}, \frac{365}{1267}, \frac{613}{1267}, -\frac{244}{1267}, \frac{70}{543}, \frac{968}{3801}, -\frac{859}{3801}, -\frac{115}{3801})$ $+\frac{2}{1267}\sqrt{212986}e^3 \otimes e_8 + \frac{8}{3801}\sqrt{84022}e^4 \otimes e_9$	{12359, 1379, 2478, 458}
952:33	$0, 0, 0, 0, \frac{4}{1307}\sqrt{24585}e^{12}, \frac{3}{1307}\sqrt{22946}e^{13}, \frac{3}{1307}\sqrt{193402}e^{23},$ $\frac{1}{1307}\sqrt{337634}e^{25}, \frac{2}{1307}\sqrt{93423}e^{16}$	$(\frac{291}{1307}, -\frac{86}{1307}, -\frac{246}{1307}, 1, \frac{205}{1307}, \frac{45}{1307}, -\frac{332}{1307}, \frac{119}{1307}, \frac{336}{1307})$ $+\frac{1}{1307}\sqrt{3556630}e^4 \otimes e_7$	{1234568, 125789, 13678, 1489, 234, 2679, 357, 4569}
952:33	$0, 0, 0, 0, \frac{6}{353}\sqrt{1105}e^{12}, \frac{6}{353}\sqrt{1921}e^{13}, \frac{102}{353}\sqrt{3}e^{23}, \frac{6}{353}\sqrt{646}e^{25},$ $\frac{24}{353}\sqrt{102}e^{16}$	$(\frac{79}{353}, \frac{11}{353}, \frac{1}{353}, -\frac{227}{353}, \frac{90}{353}, \frac{80}{353}, \frac{12}{353}, \frac{101}{353}, \frac{159}{353})$ $+\frac{6}{353}\sqrt{4930}e^1 \otimes e_4$	{123789, 1268, 13589, 15678, 2345679, 245, 3469, 47}
952:33	$0, 0, 0, 0, \frac{2}{169}\sqrt{2759}e^{12}, \frac{14}{169}\sqrt{89}e^{13}, \frac{2}{169}\sqrt{4717}e^{23}, \frac{4}{169}\sqrt{178}e^{25},$ $\frac{4}{169}\sqrt{445}e^{16}$	$(-\frac{9}{169}, \frac{15}{169}, \frac{67}{169}, -\frac{111}{169}, \frac{6}{169}, \frac{58}{169}, \frac{82}{169}, \frac{21}{169}, \frac{49}{169})$ $+\frac{4}{169}\sqrt{3115}e^3 \otimes e_4$	{123589, 1245678, 13789, 1468, 2369, 247, 35679, 45}
952:33	$0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{4}{9}e^{13}, \frac{2}{9}\sqrt{6}e^{23}, \frac{2}{9}\sqrt{10}e^{25}, \frac{2}{9}\sqrt{2}e^{16}$	$(0, \frac{2}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{2}{9}, \frac{1}{9}, \frac{1}{3}, \frac{4}{9}, \frac{1}{9})$ $+\frac{2}{9}\sqrt{30}e^2 \otimes e_4$	{123689, 1278, 13456789, 1458, 2359, 2567, 3479, 46}
952:33	$0, 0, 0, 0, \frac{2}{3841}\sqrt{68089}e^{12}, \frac{2}{3841}\sqrt{185381}e^{13}, \frac{2}{3841}\sqrt{382193}e^{23},$ $\frac{64}{3841}\sqrt{497}e^{25}, \frac{4}{3841}\sqrt{87969}e^{16}$	$(-\frac{773}{3841}, \frac{331}{3841}, \frac{883}{3841}, \frac{445}{3841}, -\frac{442}{3841}, \frac{110}{3841}, \frac{1214}{3841}, -\frac{111}{3841}, -\frac{663}{3841})$ $+\frac{4}{3841}\sqrt{196315}e^3 \otimes e_8 + \frac{4}{3841}\sqrt{225638}e^2 \otimes e_9$	{124678, 12678, 34679, 3679}
952:33	$0, 0, 0, 0, \frac{2}{4089}\sqrt{469211}e^{12}, \frac{2}{4089}\sqrt{13141}e^{13}, \frac{2}{4089}\sqrt{252771}e^{23},$ $\frac{2}{4089}\sqrt{969342}e^{25}, \frac{2}{4089}\sqrt{536462}e^{16}$	$(-\frac{673}{4089}, \frac{167}{1363}, \frac{301}{4089}, \frac{625}{1363}, -\frac{172}{4089}, -\frac{124}{1363}, \frac{802}{4089}, \frac{7}{87}, -\frac{1045}{4089})$ $+\frac{20}{4089}\sqrt{10822}e^4 \otimes e_8 + \frac{2}{1363}\sqrt{190158}e^2 \otimes e_9$	{12368, 1589, 2345, 469}
952:33	$0, 0, 0, 0, \frac{102}{353}\sqrt{3}e^{12}, \frac{6}{353}\sqrt{1921}e^{13}, \frac{6}{353}\sqrt{1105}e^{23}, \frac{24}{353}\sqrt{102}e^{25},$ $\frac{6}{353}\sqrt{646}e^{16}$	$(-\frac{37}{353}, -\frac{47}{353}, \frac{175}{353}, \frac{63}{353}, -\frac{84}{353}, \frac{138}{353}, \frac{128}{353}, -\frac{131}{353}, \frac{101}{353})$ $+\frac{6}{353}\sqrt{4930}e^3 \otimes e_8$	{123459, 12359, 13479, 1379, 2478, 278, 458, 58}
952:33	$0, 0, 0, 0, \frac{2}{977}\sqrt{31533}e^{12}, \frac{3}{977}\sqrt{15538}e^{13}, \frac{1}{977}\sqrt{260490}e^{23},$ $\frac{1}{977}\sqrt{97798}e^{25}, \frac{9}{977}\sqrt{914}e^{16}$	$(\frac{9}{977}, -\frac{149}{977}, \frac{168}{977}, \frac{476}{977}, -\frac{140}{977}, \frac{177}{977}, \frac{19}{977}, -\frac{289}{977}, \frac{186}{977})$ $+\frac{1}{977}\sqrt{339094}e^4 \otimes e_7 + \frac{1}{977}\sqrt{457914}e^3 \otimes e_8$	{123459, 1379, 278, 458}
952:33	$0, 0, 0, 0, \frac{2}{527}\sqrt{665}e^{12}, \frac{114}{527}\sqrt{5}e^{13}, \frac{2}{527}\sqrt{665}e^{23}, \frac{8}{527}\sqrt{570}e^{25},$ $\frac{8}{527}\sqrt{570}e^{16}$	$(\frac{21}{527}, -\frac{47}{527}, \frac{117}{527}, -\frac{169}{527}, -\frac{26}{527}, \frac{138}{527}, \frac{70}{527}, -\frac{73}{527}, \frac{159}{527})$ $+\frac{4}{527}\sqrt{5510}e^1 \otimes e_4 + \frac{4}{527}\sqrt{5510}e^3 \otimes e_8$	{12678, 1568, 234569, 34679}
952:33	$0, 0, 0, 0, \frac{1}{57}\sqrt{858}e^{12}, \frac{1}{38}\sqrt{286}e^{13}, \frac{13}{114}\sqrt{11}e^{23}, \frac{1}{114}\sqrt{1430}e^{25},$ $\frac{1}{57}\sqrt{3003}e^{16}$	$(-\frac{35}{228}, \frac{11}{57}, \frac{1}{19}, 1, \frac{3}{76}, -\frac{23}{228}, \frac{14}{57}, \frac{53}{228}, -\frac{29}{114})$ $+\frac{1}{114}\sqrt{26455}e^4 \otimes e_9$	{12359, 124567, 1379, 146, 23689, 2478, 356789, 458}
952:33	$0, 0, 0, 0, \frac{1}{455}\sqrt{27714}e^{12}, \frac{4}{455}\sqrt{447}e^{13}, \frac{8}{455}\sqrt{447}e^{23}, \frac{2}{91}\sqrt{149}e^{25},$ $\frac{4}{455}\sqrt{1043}e^{16}$	$(\frac{88}{455}, \frac{1}{65}, -\frac{68}{455}, -\frac{142}{455}, \frac{19}{91}, \frac{4}{91}, -\frac{61}{455}, \frac{102}{455}, \frac{108}{455})$ $+\frac{1}{455}\sqrt{62282}e^1 \otimes e_7 + \frac{1}{455}\sqrt{14453}e^2 \otimes e_4$	{12389, 14568, 257, 34679}
952:33	$0, 0, 0, 0, \frac{22}{4401}\sqrt{1235}e^{12}, \frac{44}{4401}\sqrt{1410}e^{13}, \frac{88}{4401}\sqrt{395}e^{23},$ $\frac{88}{4401}\sqrt{85}e^{25}, \frac{22}{4401}\sqrt{4745}e^{16}$	$(\frac{770}{4401}, -\frac{11}{163}, -\frac{143}{4401}, -\frac{451}{1467}, \frac{473}{4401}, \frac{209}{1467}, -\frac{440}{4401}, \frac{176}{4401}, \frac{1397}{4401})$ $+\frac{22}{4401}\sqrt{9005}e^3 \otimes e_4 + \frac{44}{4401}\sqrt{2690}e^1 \otimes e_7$	{123589, 1468, 247, 35679}
952:34	$0, 0, 0, 0, \frac{11}{867}\sqrt{1094}e^{12}, \frac{11}{867}\sqrt{1094}e^{13}, \frac{1}{867}\sqrt{44854}e^{23},$ $\frac{1}{867}\sqrt{149878}e^{25}, \frac{1}{867}\sqrt{25162}e^{36}$	$(\frac{283}{867}, -\frac{63}{289}, -\frac{25}{289}, \frac{452}{867}, \frac{94}{867}, \frac{208}{867}, -\frac{88}{289}, -\frac{95}{867}, \frac{133}{867})$ $+\frac{1}{867}\sqrt{454010}e^1 \otimes e_7 + \frac{2}{289}\sqrt{10393}e^4 \otimes e_8$	{12389, 15689, 2457, 3467}
952:34	$0, 0, 0, 0, \frac{1}{2013}\sqrt{740570}e^{12}, \frac{2}{2013}\sqrt{13661}e^{13}, \frac{2}{2013}\sqrt{154585}e^{23},$ $\frac{2}{2013}\sqrt{87718}e^{25}, \frac{2}{2013}\sqrt{26603}e^{36}$	$(\frac{46}{183}, -\frac{9}{671}, -\frac{62}{671}, -\frac{746}{2013}, \frac{479}{2013}, \frac{320}{2013}, -\frac{71}{671}, \frac{452}{2013}, \frac{134}{2013})$ $+\frac{1}{2013}\sqrt{1223738}e^1 \otimes e_7 + \frac{2}{671}\sqrt{38107}e^2 \otimes e_4$	{1238, 14568, 2579, 34679}
952:34	$0, 0, 0, 0, \frac{2}{111}\sqrt{1265}e^{12}, \frac{2}{111}\sqrt{1265}e^{13}, \frac{23}{111}\sqrt{10}e^{23}, \frac{1}{111}\sqrt{230}e^{25},$ $\frac{1}{111}\sqrt{230}e^{36}$	$(\frac{67}{111}, -\frac{8}{37}, -\frac{8}{37}, \frac{20}{111}, \frac{43}{111}, \frac{43}{111}, -\frac{16}{37}, \frac{19}{111}, \frac{19}{111})$ $+\frac{1}{111}\sqrt{20930}e^1 \otimes e_7$	{123, 1234, 1456, 156, 245789, 25789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:34	$0, 0, 0, 0, \frac{6}{109} \sqrt{51}e^{12}, \frac{2}{109} \sqrt{51}e^{13}, \frac{2}{109} \sqrt{85}e^{23}, \frac{2}{109} \sqrt{646}e^{25}, \frac{2}{109} \sqrt{442}e^{36}$	$(-\frac{11}{109}, \frac{13}{109}, -\frac{5}{109}, \frac{49}{109}, \frac{2}{109}, -\frac{16}{109}, \frac{8}{109}, \frac{15}{109}, -\frac{21}{109}) + \frac{12}{109} \sqrt{17}e^4 \otimes e_8 + \frac{4}{109} \sqrt{255}e^2 \otimes e_9$	{123678, 128, 349, 4679}
952:34	$0, 0, 0, 0, \frac{6}{605} \sqrt{1711}e^{12}, \frac{4}{605} \sqrt{354}e^{13}, \frac{1}{605} \sqrt{23718}e^{23}, \frac{1}{605} \sqrt{37878}e^{25}, \frac{1}{605} \sqrt{37878}e^{36}$	$(\frac{9}{55}, \frac{8}{121}, -\frac{118}{605}, \frac{72}{605}, \frac{139}{605}, -\frac{19}{605}, -\frac{78}{605}, \frac{179}{605}, -\frac{137}{605}) + \frac{1}{605} \sqrt{76818}e^1 \otimes e_7 + \frac{2}{605} \sqrt{27966}e^2 \otimes e_9$	{145689, 15689, 2457, 257}
952:34	$0, 0, 0, 0, \frac{2}{433} \sqrt{969}e^{12}, \frac{2}{433} \sqrt{969}e^{13}, \frac{2}{433} \sqrt{221}e^{23}, \frac{4}{433} \sqrt{595}e^{25}, \frac{4}{433} \sqrt{595}e^{36}$	$(-\frac{65}{433}, \frac{31}{433}, \frac{31}{433}, \frac{49}{433}, -\frac{34}{433}, -\frac{34}{433}, \frac{62}{433}, -\frac{3}{433}, -\frac{3}{433}) + \frac{16}{433} \sqrt{51}e^2 \otimes e_9 + \frac{16}{433} \sqrt{51}e^3 \otimes e_8$	{145689, 15689, 23456, 2356}
952:34	$0, 0, 0, 0, \frac{2}{67} \sqrt{246}e^{12}, \frac{2}{67} \sqrt{246}e^{13}, \frac{2}{67} \sqrt{451}e^{23}, \frac{2}{67} \sqrt{1066}e^{25}, \frac{4}{67} \sqrt{82}e^{36}$	$(\frac{1}{67}, -\frac{8}{67}, \frac{10}{67}, 1, -\frac{7}{67}, \frac{11}{67}, \frac{2}{67}, -\frac{15}{67}, \frac{21}{67}) + \frac{6}{67} \sqrt{246}e^4 \otimes e_8$	{123789, 12689, 13589, 156789, 234567, 245, 346, 47}
952:34	$0, 0, 0, 0, \frac{12}{989} \sqrt{1166}e^{12}, \frac{4}{989} \sqrt{4611}e^{13}, \frac{24}{989} \sqrt{265}e^{23}, \frac{52}{989} \sqrt{53}e^{25}, \frac{52}{989} \sqrt{53}e^{36}$	$(\frac{6}{989}, \frac{140}{989}, -\frac{145}{989}, \frac{419}{989}, \frac{146}{989}, -\frac{139}{989}, -\frac{5}{989}, \frac{286}{989}, -\frac{284}{989}) + \frac{4}{989} \sqrt{16006}e^4 \otimes e_7 + \frac{4}{989} \sqrt{30210}e^2 \otimes e_9$	{123468, 1278, 379, 469}
952:34	$0, 0, 0, 0, \frac{18}{233} \sqrt{73}e^{12}, \frac{2}{233} \sqrt{1095}e^{13}, \frac{2}{233} \sqrt{365}e^{23}, \frac{4}{233} \sqrt{1387}e^{25}, \frac{4}{233} \sqrt{1387}e^{36}$	$(-\frac{25}{233}, \frac{71}{233}, -\frac{25}{233}, \frac{41}{233}, \frac{46}{233}, -\frac{50}{233}, \frac{46}{233}, \frac{117}{233}, -\frac{75}{233}) + \frac{16}{233} \sqrt{219}e^2 \otimes e_9$	{123468, 12368, 12478, 1278, 3479, 379, 469, 69}
952:34	$0, 0, 0, 0, \frac{1}{4} \sqrt{3}e^{12}, \frac{1}{4} \sqrt{3}e^{13}, \frac{3}{4} \sqrt{2}e^{23}, \frac{1}{2}e^{25}, \frac{1}{2}e^{36}$	$(\frac{3}{10}, -\frac{1}{8}, -\frac{1}{8}, 1, \frac{7}{40}, \frac{7}{40}, -\frac{1}{4}, \frac{1}{20}, \frac{1}{20}) + \frac{1}{4} \sqrt{34}e^4 \otimes e_7$	{12345689, 125789, 1489, 234, 267, 456}
952:34	$0, 0, 0, 0, \frac{2}{1187} \sqrt{71421}e^{12}, \frac{2}{1187} \sqrt{16289}e^{13}, \frac{2}{1187} \sqrt{18079}e^{23}, \frac{24}{1187} \sqrt{358}e^{25}, \frac{24}{1187} \sqrt{358}e^{36}$	$(\frac{81}{1187}, \frac{177}{1187}, -\frac{131}{1187}, -\frac{277}{1187}, \frac{258}{1187}, -\frac{50}{1187}, \frac{46}{1187}, \frac{435}{1187}, -\frac{181}{1187}) + \frac{4}{1187} \sqrt{18974}e^1 \otimes e_4 + \frac{4}{1187} \sqrt{27566}e^2 \otimes e_9$	{13589, 156789, 234567, 245}
952:34	$0, 0, 0, 0, \frac{2}{113} \sqrt{1995}e^{12}, \frac{2}{113} \sqrt{1995}e^{13}, \frac{18}{113} \sqrt{19}e^{23}, \frac{8}{113} \sqrt{57}e^{25}, \frac{8}{113} \sqrt{57}e^{36}$	$(\frac{43}{113}, -\frac{3}{113}, -\frac{3}{113}, -\frac{71}{113}, \frac{40}{113}, \frac{40}{113}, -\frac{6}{113}, \frac{37}{113}, \frac{37}{113}) + \frac{4}{113} \sqrt{1311}e^1 \otimes e_4$	{123789, 12689, 156789, 234567, 245, 47}
952:34	$0, 0, 0, 0, \frac{3}{104} \sqrt{58}e^{12}, \frac{1}{104} \sqrt{870}e^{13}, \frac{1}{208} \sqrt{2378}e^{23}, \frac{5}{208} \sqrt{290}e^{25}, \frac{3}{52} \sqrt{29}e^{36}$	$(-\frac{23}{208}, \frac{7}{416}, \frac{21}{104}, -\frac{109}{416}, -\frac{3}{32}, \frac{19}{208}, \frac{7}{32}, -\frac{1}{13}, \frac{61}{208}) + \frac{1}{208} \sqrt{9222}e^2 \otimes e_4 + \frac{3}{208} \sqrt{1334}e^3 \otimes e_8$	{126789, 145689, 2356, 3467}
952:35	$0, 0, 0, 0, \frac{6}{329} \sqrt{481}e^{12}, \frac{3}{329} \sqrt{4958}e^{13}, \frac{6}{329} \sqrt{1961}e^{14}, \frac{3}{329} \sqrt{8806}e^{15}, \frac{3}{329} \sqrt{4958}e^{16}$	$(-\frac{67}{329}, \frac{24}{329}, \frac{117}{329}, \frac{223}{329}, -\frac{43}{329}, \frac{50}{329}, \frac{156}{329}, -\frac{110}{329}, -\frac{17}{329}) + \frac{9}{329} \sqrt{2294}e^4 \otimes e_8$	{1236789, 1278, 134569, 145, 23589, 2568, 3479, 467}
952:35	$0, 0, 0, 0, \frac{46}{429} \sqrt{7}e^{12}, \frac{1}{429} \sqrt{11914}e^{13}, \frac{2}{429} \sqrt{8533}e^{14}, \frac{1}{429} \sqrt{26726}e^{15}, \frac{1}{429} \sqrt{11914}e^{16}$	$(\frac{37}{429}, -\frac{124}{429}, \frac{5}{429}, \frac{37}{143}, -\frac{29}{143}, \frac{14}{143}, \frac{148}{429}, -\frac{50}{429}, \frac{79}{429}) + \frac{2}{429} \sqrt{17066}e^1 \otimes e_2 + \frac{35}{429} \sqrt{46}e^4 \otimes e_8$	{13789, 1678, 234679, 247}
952:35	$0, 0, 0, 0, \frac{78}{347} \sqrt{7}e^{12}, \frac{2}{347} \sqrt{15834}e^{13}, \frac{2}{347} \sqrt{7917}e^{14}, \frac{1}{347} \sqrt{10374}e^{15}, \frac{2}{347} \sqrt{15834}e^{16}$	$(\frac{116}{347}, -\frac{157}{347}, -\frac{60}{347}, -\frac{2}{347}, -\frac{41}{347}, \frac{56}{347}, \frac{114}{347}, \frac{75}{347}, \frac{172}{347}) + \frac{3}{347} \sqrt{17654}e^1 \otimes e_2$	{13489, 13789, 1468, 1678, 2, 234679, 2369, 247}
952:35	$0, 0, 0, 0, \frac{1}{29} \sqrt{285}e^{12}, \frac{1}{29} \sqrt{285}e^{13}, \frac{1}{29} \sqrt{323}e^{14}, \frac{1}{29} \sqrt{285}e^{15}, \frac{1}{29} \sqrt{285}e^{16}$	$(\frac{15}{58}, -\frac{3}{29}, -\frac{3}{29}, -\frac{23}{58}, \frac{9}{58}, \frac{9}{58}, -\frac{4}{29}, \frac{12}{29}, \frac{12}{29}) + \frac{7}{29} \sqrt{19}e^1 \otimes e_4$	{12389, 1268, 156, 2345689, 2458, 4}
952:35	$0, 0, 0, 0, \frac{12}{85} \sqrt{31}e^{12}, \frac{1}{85} \sqrt{93}e^{13}, \frac{1}{85} \sqrt{2139}e^{14}, \frac{1}{85} \sqrt{93}e^{15}, \frac{12}{85} \sqrt{31}e^{16}$	$(-\frac{23}{85}, \frac{61}{85}, \frac{14}{85}, \frac{26}{85}, \frac{38}{85}, -\frac{9}{85}, \frac{3}{85}, \frac{3}{17}, -\frac{32}{85}) + \frac{3}{85} \sqrt{1457}e^2 \otimes e_9$	{124678, 1268, 134579, 1359, 2458, 2578, 3469, 3679}
952:35	$0, 0, 0, 0, \frac{12}{67} \sqrt{5}e^{12}, \frac{16}{67} \sqrt{3}e^{13}, \frac{4}{67} \sqrt{69}e^{14}, \frac{12}{67} \sqrt{5}e^{15}, \frac{16}{67} \sqrt{3}e^{16}$	$(-\frac{16}{67}, \frac{21}{67}, \frac{21}{67}, \frac{13}{67}, \frac{5}{67}, \frac{5}{67}, -\frac{3}{67}, -\frac{11}{67}, -\frac{11}{67}) + \frac{4}{67} \sqrt{93}e^2 \otimes e_7 + \frac{4}{67} \sqrt{93}e^4 \otimes e_8$	{23589, 2568, 3479, 467}
952:35	$0, 0, 0, 0, \frac{3}{329} \sqrt{8806}e^{12}, \frac{3}{329} \sqrt{4958}e^{13}, \frac{6}{329} \sqrt{1961}e^{14}, \frac{6}{329} \sqrt{481}e^{15}, \frac{3}{329} \sqrt{4958}e^{16}$	$(-\frac{67}{329}, \frac{30}{47}, \frac{117}{329}, -\frac{47}{329}, \frac{143}{329}, \frac{50}{329}, -\frac{123}{329}, \frac{76}{329}, -\frac{17}{329}) + \frac{9}{329} \sqrt{2294}e^2 \otimes e_7$	{1234689, 1248, 135679, 157, 23589, 2568, 3479, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:35	$0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{4}{53}\sqrt{30}e^{13}, \frac{16}{53}\sqrt{2}e^{14}, \frac{4}{53}\sqrt{30}e^{15}, \frac{4}{53}\sqrt{30}e^{16}$	$(-\frac{16}{53}, \frac{22}{53}, \frac{22}{53}, \frac{14}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{2}{53}, -\frac{10}{53}, -\frac{10}{53}) + \frac{4}{53}\sqrt{94}e^2 \otimes e_9 + \frac{4}{53}\sqrt{94}e^3 \otimes e_8$	{124678, 1268, 2458, 2578}
952:35	$0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{4}{53}\sqrt{30}e^{13}, \frac{16}{53}\sqrt{2}e^{14}, \frac{4}{53}\sqrt{30}e^{15}, \frac{4}{53}\sqrt{30}e^{16}$	$(-\frac{16}{53}, \frac{22}{53}, \frac{22}{53}, \frac{14}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{2}{53}, -\frac{10}{53}, -\frac{10}{53}) + \frac{4}{53}\sqrt{94}e^2 \otimes e_9 - \frac{4}{53}\sqrt{94}e^3 \otimes e_8$	{124678, 1268, 2458, 2578}
952:35	$0, 0, 0, 0, \frac{30}{3149}\sqrt{1315}e^{12}, \frac{20}{3149}\sqrt{2595}e^{13}, \frac{10}{3149}\sqrt{11895}e^{14}, \frac{40}{3149}\sqrt{255}e^{15}, \frac{10}{3149}\sqrt{17085}e^{16}$	$(\frac{245}{3149}, -\frac{505}{3149}, -\frac{435}{3149}, \frac{805}{3149}, -\frac{260}{3149}, \frac{190}{3149}, \frac{1050}{3149}, -\frac{15}{3149}, \frac{55}{3149}) + \frac{30}{3149}\sqrt{2235}e^4 \otimes e_9 + \frac{30}{3149}\sqrt{2585}e^1 \otimes e_2$	{1379, 146, 23689, 2478}
952:35	$0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{2}{79}\sqrt{105}e^{13}, \frac{5}{79}\sqrt{14}e^{14}, \frac{5}{79}\sqrt{42}e^{15}, \frac{2}{79}\sqrt{105}e^{16}$	$(\frac{6}{79}, \frac{12}{79}, \frac{3}{79}, -\frac{29}{79}, \frac{18}{79}, \frac{9}{79}, -\frac{23}{79}, \frac{24}{79}, \frac{15}{79}) + \frac{1}{79}\sqrt{3010}e^1 \otimes e_4 + \frac{3}{79}\sqrt{210}e^2 \otimes e_7$	{12389, 1268, 2345689, 2458}
952:35	$0, 0, 0, 0, \frac{1}{131}\sqrt{4242}e^{12}, \frac{2}{131}\sqrt{105}e^{13}, \frac{1}{131}\sqrt{2310}e^{14}, \frac{2}{131}\sqrt{966}e^{15}, \frac{21}{131}\sqrt{6}e^{16}$	$(-\frac{34}{131}, \frac{51}{131}, \frac{67}{131}, \frac{1}{131}, \frac{17}{131}, \frac{33}{131}, -\frac{33}{131}, -\frac{17}{131}, -\frac{1}{131}) + \frac{3}{131}\sqrt{1022}e^3 \otimes e_8 + \frac{6}{131}\sqrt{287}e^2 \otimes e_7$	{124689, 1357, 2589, 3467}
952:35	$0, 0, 0, 0, \frac{1}{67}\sqrt{518}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{119}e^{14}, \frac{2}{67}\sqrt{70}e^{15}, \frac{1}{67}\sqrt{518}e^{16}$	$(\frac{3}{134}, \frac{13}{67}, -\frac{4}{67}, -\frac{25}{134}, \frac{29}{134}, -\frac{5}{134}, -\frac{11}{67}, \frac{16}{67}, -\frac{1}{67}) + \frac{1}{67}\sqrt{714}e^2 \otimes e_9 + \frac{1}{67}\sqrt{994}e^1 \otimes e_4$	{1268, 1359, 2458, 3469}
952:35	$0, 0, 0, 0, \frac{2}{131}\sqrt{966}e^{12}, \frac{21}{131}\sqrt{6}e^{13}, \frac{1}{131}\sqrt{2310}e^{14}, \frac{1}{131}\sqrt{4242}e^{15}, \frac{2}{131}\sqrt{105}e^{16}$	$(-\frac{34}{131}, \frac{93}{262}, \frac{61}{262}, \frac{125}{262}, \frac{25}{262}, -\frac{7}{262}, \frac{57}{262}, -\frac{43}{262}, -\frac{75}{262}) + \frac{3}{131}\sqrt{1022}e^2 \otimes e_9 + \frac{3}{131}\sqrt{287}e^4 \otimes e_8$	{123678, 1459, 2358, 4679}
952:35	$0, 0, 0, 0, \frac{2}{385}\sqrt{7626}e^{12}, \frac{3}{385}\sqrt{1558}e^{13}, \frac{1}{385}\sqrt{2706}e^{14}, \frac{1}{385}\sqrt{17958}e^{15}, \frac{1}{385}\sqrt{14514}e^{16}$	$(\frac{2}{35}, \frac{6}{35}, -\frac{101}{385}, \frac{26}{385}, \frac{8}{35}, -\frac{79}{385}, \frac{48}{385}, \frac{7}{385}, -\frac{57}{385}) + \frac{3}{385}\sqrt{4182}e^2 \otimes e_9 + \frac{3}{385}\sqrt{5330}e^1 \otimes e_3$	{1459, 1579, 234578, 2358}
952:35	$0, 0, 0, 0, \frac{10}{3149}\sqrt{17085}e^{12}, \frac{30}{3149}\sqrt{1315}e^{13}, \frac{10}{3149}\sqrt{11895}e^{14}, \frac{20}{3149}\sqrt{2595}e^{15}, \frac{40}{3149}\sqrt{255}e^{16}$	$(\frac{245}{3149}, \frac{459}{3149}, -\frac{505}{3149}, \frac{8}{3149}, \frac{704}{3149}, -\frac{260}{3149}, \frac{291}{3149}, \frac{949}{3149}, -\frac{15}{3149}) + \frac{30}{3149}\sqrt{2235}e^2 \otimes e_7 + \frac{30}{3149}\sqrt{2585}e^1 \otimes e_3$	{1248, 157, 23589, 3479}
952:35	$0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{21}{307}\sqrt{17}e^{13}, \frac{12}{307}\sqrt{221}e^{14}, \frac{21}{307}\sqrt{17}e^{15}, \frac{6}{307}\sqrt{187}e^{16}$	$(-\frac{71}{307}, \frac{291}{614}, \frac{105}{614}, \frac{127}{614}, \frac{149}{614}, -\frac{37}{614}, -\frac{15}{614}, \frac{7}{614}, -\frac{179}{614}) + \frac{9}{307}\sqrt{527}e^2 \otimes e_7 + \frac{3}{307}\sqrt{527}e^4 \otimes e_9$	{12346, 15789, 2569, 3478}
952:36	$0, 0, 0, 0, \frac{1}{1399}\sqrt{251790}e^{12}, \frac{14}{1399}\sqrt{1199}e^{13}, \frac{1}{1399}\sqrt{50358}e^{14}, \frac{14}{1399}\sqrt{2398}e^{25}, \frac{22}{1399}\sqrt{763}e^{16}$	$(-\frac{409}{1399}, \frac{451}{1399}, \frac{506}{1399}, \frac{152}{1399}, \frac{42}{1399}, \frac{97}{1399}, -\frac{257}{1399}, \frac{493}{1399}, -\frac{312}{1399}) + \frac{1}{1399}\sqrt{1127714}e^2 \otimes e_9 + \frac{5}{1399}\sqrt{28994}e^3 \otimes e_7$	{12678, 134589, 2457, 369}
952:36	$0, 0, 0, 0, \frac{1}{881}\sqrt{100014}e^{12}, \frac{6}{881}\sqrt{4898}e^{13}, \frac{1}{881}\sqrt{68730}e^{14}, \frac{10}{881}\sqrt{1659}e^{25}, \frac{1}{881}\sqrt{156894}e^{16}$	$(-\frac{211}{881}, \frac{38}{881}, \frac{339}{881}, \frac{391}{881}, -\frac{173}{881}, \frac{128}{881}, \frac{180}{881}, -\frac{135}{881}, -\frac{83}{881}) + \frac{1}{881}\sqrt{395790}e^3 \otimes e_8 + \frac{4}{881}\sqrt{21093}e^4 \otimes e_9$	{123579, 1379, 2478, 4578}
952:36	$0, 0, 0, 0, \frac{3}{40}\sqrt{83}e^{12}, \frac{1}{120}\sqrt{3486}e^{13}, \frac{3}{40}\sqrt{83}e^{14}, \frac{1}{30}\sqrt{415}e^{25}, \frac{1}{120}\sqrt{3486}e^{16}$	$(-\frac{7}{40}, \frac{79}{240}, \frac{13}{40}, -\frac{3}{16}, \frac{37}{240}, \frac{3}{20}, -\frac{29}{80}, \frac{29}{60}, -\frac{1}{40}) + \frac{1}{60}\sqrt{4233}e^2 \otimes e_7$	{1234689, 1248, 1356789, 1578, 2359, 256, 3479, 467}
952:36	$0, 0, 0, 0, \frac{1}{1049}\sqrt{31290}e^{12}, \frac{2}{1049}\sqrt{59302}e^{13}, \frac{1}{1049}\sqrt{117710}e^{14}, \frac{2}{1049}\sqrt{27267}e^{25}, \frac{1}{1049}\sqrt{149894}e^{16}$	$(\frac{105}{1049}, -\frac{126}{1049}, \frac{151}{1049}, -\frac{193}{1049}, -\frac{21}{1049}, \frac{256}{1049}, -\frac{88}{1049}, -\frac{147}{1049}, \frac{361}{1049}) + \frac{1}{1049}\sqrt{261942}e^3 \otimes e_8 + \frac{20}{1049}\sqrt{745}e^1 \otimes e_4$	{1268, 1568, 234569, 3469}
952:36	$0, 0, 0, 0, \frac{1}{483}\sqrt{13710}e^{12}, \frac{2}{483}\sqrt{6855}e^{13}, \frac{2}{483}\sqrt{42501}e^{14}, \frac{1}{483}\sqrt{147154}e^{25}, \frac{2}{483}\sqrt{6855}e^{16}$	$(-\frac{10}{161}, -\frac{65}{483}, \frac{37}{161}, \frac{99}{161}, -\frac{95}{483}, \frac{27}{161}, \frac{89}{161}, -\frac{160}{483}, \frac{17}{161}) + \frac{2}{483}\sqrt{91857}e^4 \otimes e_8$	{1234569, 1245, 13469, 14, 2389, 268, 3589, 568}
952:36	$0, 0, 0, 0, \frac{4}{3465}\sqrt{86817}e^{12}, \frac{2}{3465}\sqrt{287371}e^{13}, \frac{2}{3465}\sqrt{761163}e^{14}, \frac{2}{3465}\sqrt{501385}e^{25}, \frac{2}{3465}\sqrt{11441}e^{16}$	$(-\frac{93}{385}, \frac{974}{3465}, \frac{793}{3465}, \frac{31}{231}, \frac{137}{3465}, -\frac{4}{315}, -\frac{124}{1155}, \frac{101}{315}, -\frac{881}{3465}) + \frac{2}{3465}\sqrt{1257837}e^2 \otimes e_7 + \frac{2}{3465}\sqrt{827790}e^4 \otimes e_9$	{1248, 1356789, 2359, 467}
952:36	$0, 0, 0, 0, \frac{2}{3533}\sqrt{111531}e^{12}, \frac{4}{3533}\sqrt{230181}e^{13}, \frac{20}{3533}\sqrt{791}e^{14}, \frac{6}{3533}\sqrt{11865}e^{25}, \frac{2}{3533}\sqrt{571893}e^{16}$	$(\frac{282}{3533}, \frac{129}{3533}, \frac{564}{3533}, -\frac{1300}{3533}, \frac{411}{3533}, \frac{846}{3533}, -\frac{1018}{3533}, \frac{540}{3533}, \frac{1128}{3533}) + \frac{38}{3533}\sqrt{3955}e^1 \otimes e_4 + \frac{42}{3533}\sqrt{2373}e^3 \otimes e_7$	{12389, 13589, 234569, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:36	$0, 0, 0, 0, \frac{12}{803} \sqrt{1002e^{12}}, \frac{2}{803} \sqrt{8517e^{13}}, \frac{2}{803} \sqrt{8851e^{14}}, \frac{2}{803} \sqrt{26553e^{25}}, \frac{2}{803} \sqrt{8517e^{16}}$	$(\frac{51}{803}, \frac{102}{803}, \frac{45}{803}, -\frac{283}{803}, \frac{153}{803}, \frac{96}{803}, -\frac{232}{803}, \frac{255}{803}, \frac{147}{803})$ $+ \frac{2}{803} \sqrt{54442e^1} \otimes e_4 + \frac{2}{803} \sqrt{63627e^2} \otimes e_7$	{135789, 15678, 34679, 47}
952:36	$0, 0, 0, 0, \frac{2}{1497} \sqrt{239190e^{12}}, \frac{2}{1497} \sqrt{6834e^{13}}, \frac{67}{1497} \sqrt{102e^{14}}, \frac{1}{1497} \sqrt{1136722e^{25}}, \frac{2}{1497} \sqrt{242607e^{16}}$	$(-\frac{134}{499}, \frac{578}{1497}, \frac{81}{499}, \frac{152}{499}, \frac{176}{499}, -\frac{53}{499}, \frac{18}{499}, \frac{754}{1497}, -\frac{187}{499})$ $+ \frac{2}{499} \sqrt{78591e^2} \otimes e_9$	{124678, 1268, 1345789, 13589, 245, 257, 3469, 3679}
952:36	$0, 0, 0, 0, \frac{1}{67} \sqrt{518e^{12}}, \frac{4}{201} \sqrt{111e^{13}}, \frac{1}{67} \sqrt{518e^{14}}, \frac{2}{201} \sqrt{2479e^{25}}, \frac{1}{67} \sqrt{222e^{16}}$	$(-\frac{13}{67}, \frac{26}{201}, \frac{29}{67}, -\frac{3}{67}, -\frac{13}{201}, \frac{16}{67}, -\frac{16}{201}, \frac{13}{67}, \frac{3}{67})$ $+ \frac{1}{67} \sqrt{1258e^3} \otimes e_8 + \frac{2}{201} \sqrt{3774e^2} \otimes e_7$	{124689, 156789, 2356, 3467}
952:36	$0, 0, 0, 0, \frac{14}{369} \sqrt{318e^{12}}, \frac{2}{369} \sqrt{6307e^{13}}, \frac{14}{369} \sqrt{318e^{14}}, \frac{2}{369} \sqrt{4081e^{25}}, \frac{1}{369} \sqrt{49714e^{16}}$	$(\frac{56}{123}, -\frac{40}{369}, -\frac{203}{369}, -\frac{2}{41}, \frac{128}{369}, -\frac{35}{369}, \frac{50}{123}, \frac{88}{369}, \frac{133}{369})$ $+ \frac{1}{369} \sqrt{224826e^1} \otimes e_3$	{12489, 12789, 14589, 15789, 23457, 235, 3, 347}
952:36	$0, 0, 0, 0, \frac{1}{67} \sqrt{310e^{12}}, \frac{4}{67} \sqrt{31e^{13}}, \frac{1}{201} \sqrt{3162e^{14}}, \frac{2}{201} \sqrt{2077e^{25}}, \frac{3}{67} \sqrt{62e^{16}}$	$(-\frac{17}{67}, \frac{29}{201}, \frac{23}{67}, \frac{16}{67}, -\frac{22}{201}, \frac{6}{67}, -\frac{1}{67}, \frac{7}{201}, -\frac{11}{67})$ $+ \frac{1}{201} \sqrt{10230e^3} \otimes e_8 + \frac{8}{201} \sqrt{186e^2} \otimes e_9$	{124678, 1268, 3469, 3679}
952:36	$0, 0, 0, 0, \frac{8}{1449} \sqrt{9426e^{12}}, \frac{2}{1449} \sqrt{10997e^{13}}, \frac{1}{161} \sqrt{15710e^{14}}, \frac{1}{1449} \sqrt{267070e^{25}}, \frac{2}{1449} \sqrt{323626e^{16}}$	$(-\frac{128}{483}, \frac{362}{1449}, \frac{241}{1449}, \frac{116}{161}, -\frac{22}{1449}, -\frac{143}{483}, \frac{220}{1449}, \frac{340}{1449}, -\frac{527}{1449})$ $+ \frac{2}{1449} \sqrt{937887e^4} \otimes e_9$	{123579, 12456, 1379, 146, 23689, 2478, 35689, 4578}
952:36	$0, 0, 0, 0, \frac{8}{1449} \sqrt{9426e^{12}}, \frac{2}{1449} \sqrt{323626e^{13}}, \frac{1}{161} \sqrt{15710e^{14}}, \frac{1}{1449} \sqrt{267070e^{25}}, \frac{2}{1449} \sqrt{10997e^{16}}$	$(-\frac{128}{483}, \frac{362}{1449}, \frac{1037}{1449}, -\frac{50}{483}, -\frac{22}{1449}, \frac{653}{1449}, -\frac{178}{483}, \frac{340}{1449}, \frac{269}{1449})$ $+ \frac{2}{1449} \sqrt{937887e^3} \otimes e_7$	{123459, 12567, 1349, 167, 23689, 2478, 35689, 4578}
952:36	$0, 0, 0, 0, \frac{69}{443} \sqrt{6e^{12}}, \frac{3}{443} \sqrt{2806e^{13}}, \frac{6}{443} \sqrt{1495e^{14}}, \frac{3}{443} \sqrt{690e^{25}}, \frac{3}{443} \sqrt{2806e^{16}}$	$(-\frac{138}{443}, \frac{99}{443}, \frac{183}{443}, \frac{114}{443}, -\frac{39}{443}, \frac{45}{443}, -\frac{24}{443}, \frac{60}{443}, -\frac{93}{443})$ $+ \frac{3}{443} \sqrt{9154e^3} \otimes e_7 + \frac{3}{443} \sqrt{9154e^4} \otimes e_9$	{23689, 2478, 35689, 4578}
952:36	$0, 0, 0, 0, \frac{2}{99} \sqrt{330e^{12}}, \frac{2}{99} \sqrt{187e^{13}}, \frac{2}{99} \sqrt{330e^{14}}, \frac{4}{99} \sqrt{55e^{25}}, \frac{4}{99} \sqrt{11e^{16}}$	$(\frac{1}{11}, \frac{10}{99}, -\frac{13}{99}, -\frac{7}{33}, \frac{19}{99}, -\frac{4}{99}, -\frac{4}{33}, \frac{29}{99}, \frac{5}{99})$ $+ \frac{2}{99} \sqrt{429e^1} \otimes e_3 + \frac{2}{99} \sqrt{561e^2} \otimes e_7$	{1248, 1578, 2359, 3479}
952:36	$0, 0, 0, 0, \frac{1}{93} \sqrt{1290e^{12}}, \frac{4}{31} \sqrt{43e^{13}}, \frac{1}{93} \sqrt{1290e^{14}}, \frac{2}{93} \sqrt{1333e^{25}}, \frac{1}{93} \sqrt{1806e^{16}}$	$(-\frac{5}{31}, -\frac{7}{93}, \frac{19}{31}, \frac{8}{31}, -\frac{22}{93}, \frac{14}{31}, \frac{3}{31}, -\frac{29}{93}, \frac{9}{31})$ $+ \frac{1}{31} \sqrt{1462e^3} \otimes e_8$	{1234579, 12359, 13479, 139, 248, 278, 458, 578}
952:36	$0, 0, 0, 0, \frac{16}{1035} \sqrt{318e^{12}}, \frac{4}{1035} \sqrt{5671e^{13}}, \frac{2}{1035} \sqrt{70914e^{14}}, \frac{2}{1035} \sqrt{41446e^{25}}, \frac{2}{1035} \sqrt{9010e^{16}}$	$(\frac{64}{345}, -\frac{182}{1035}, -\frac{232}{1035}, \frac{28}{115}, \frac{2}{207}, -\frac{8}{207}, \frac{148}{345}, -\frac{172}{1035}, \frac{152}{1035})$ $+ \frac{212}{345} e^4 \otimes e_8 + \frac{2}{1035} \sqrt{95082e^1} \otimes e_3$	{12789, 15789, 23457, 347}
952:36	$0, 0, 0, 0, \frac{2}{553} \sqrt{11470e^{12}}, \frac{2}{553} \sqrt{2635e^{13}}, \frac{2}{553} \sqrt{930e^{14}}, \frac{10}{553} \sqrt{341e^{25}}, \frac{1}{553} \sqrt{40610e^{16}}$	$(\frac{24}{553}, \frac{72}{553}, -\frac{131}{553}, \frac{46}{553}, \frac{96}{553}, -\frac{107}{553}, \frac{10}{79}, \frac{24}{79}, -\frac{83}{553})$ $+ \frac{1}{553} \sqrt{69130e^1} \otimes e_3 + \frac{4}{553} \sqrt{5270e^2} \otimes e_9$	{14589, 15789, 23457, 235}
952:36	$0, 0, 0, 0, \frac{2}{4445} \sqrt{380181e^{12}}, \frac{4}{4445} \sqrt{69287e^{13}}, \frac{2}{4445} \sqrt{340691e^{14}}, \frac{8}{4445} \sqrt{18309e^{25}}, \frac{34}{4445} \sqrt{1795e^{16}}$	$(\frac{99}{4445}, \frac{573}{4445}, -\frac{49}{635}, -\frac{619}{4445}, \frac{96}{635}, -\frac{244}{4445}, -\frac{104}{889}, \frac{249}{889}, -\frac{29}{889})$ $+ \frac{2}{4445} \sqrt{716923e^1} \otimes e_4 + \frac{2}{4445} \sqrt{724821e^2} \otimes e_9$	{1268, 13589, 245, 3469}
952:36	$0, 0, 0, 0, \frac{1}{491} \sqrt{66990e^{12}}, \frac{2}{491} \sqrt{33495e^{13}}, \frac{2}{491} \sqrt{22715e^{14}}, \frac{3}{491} \sqrt{2310e^{25}}, \frac{2}{491} \sqrt{33495e^{16}}$	$(\frac{174}{491}, -\frac{33}{491}, -\frac{93}{491}, -\frac{211}{491}, \frac{141}{491}, \frac{81}{491}, -\frac{37}{491}, \frac{108}{491}, \frac{255}{491})$ $+ \frac{10}{491} \sqrt{3157e^1} \otimes e_4$	{12389, 1268, 13589, 1568, 234569, 245, 3469, 4}
952:36	$0, 0, 0, 0, \frac{4}{4329} \sqrt{92505e^{12}}, \frac{2}{4329} \sqrt{340066e^{13}}, \frac{2}{4329} \sqrt{149770e^{14}}, \frac{2}{4329} \sqrt{731230e^{25}}, \frac{2}{4329} \sqrt{199987e^{16}}$	$(-\frac{280}{1443}, \frac{19}{4329}, \frac{1882}{4329}, \frac{320}{1443}, -\frac{821}{4329}, \frac{1042}{4329}, \frac{40}{1443}, -\frac{802}{4329}, \frac{202}{4329})$ $+ \frac{2}{1443} \sqrt{201749e^4} \otimes e_8 + \frac{2}{4329} \sqrt{1620159e^3} \otimes e_7$	{12345, 134, 2368, 3568}
952:36	$0, 0, 0, 0, \frac{2}{3561} \sqrt{331170e^{12}}, \frac{10}{3561} \sqrt{3990e^{13}}, \frac{14}{3561} \sqrt{4845e^{14}}, \frac{2}{3561} \sqrt{789355e^{25}}, \frac{2}{1187} \sqrt{31255e^{16}}$	$(-\frac{241}{1187}, \frac{439}{3561}, \frac{185}{1187}, \frac{495}{1187}, -\frac{284}{3561}, -\frac{56}{1187}, \frac{254}{1187}, \frac{155}{3561}, -\frac{297}{1187})$ $+ \frac{2}{1187} \sqrt{127015e^2} \otimes e_9 + \frac{2}{3561} \sqrt{955605e^4} \otimes e_8$	{123678, 15789, 23457, 4679}
952:36	$0, 0, 0, 0, \frac{10}{521} \sqrt{114e^{12}}, \frac{2}{1563} \sqrt{23655e^{13}}, \frac{2}{1563} \sqrt{56715e^{14}}, \frac{2}{1563} \sqrt{49495e^{25}}, \frac{2}{1563} \sqrt{23655e^{16}}$	$(-\frac{83}{521}, \frac{118}{1563}, \frac{123}{521}, \frac{59}{521}, -\frac{131}{1563}, \frac{40}{521}, -\frac{24}{521}, -\frac{13}{1563}, -\frac{43}{521})$ $+ \frac{2}{1563} \sqrt{62130e^4} \otimes e_8 + \frac{2}{1563} \sqrt{74955e^2} \otimes e_7$	{1356789, 1578, 3479, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:36	$0, 0, 0, 0, \frac{1}{33}\sqrt{38}e^{12}, \frac{2}{99}\sqrt{133}e^{13}, \frac{1}{99}\sqrt{1995}e^{14}, \frac{1}{99}\sqrt{247}e^{25},$ $\frac{1}{99}\sqrt{1729}e^{16}$	$(\frac{1}{11}, \frac{2}{99}, -\frac{29}{99}, \frac{3}{11}, \frac{1}{9}, -\frac{20}{99}, \frac{4}{11}, \frac{13}{99}, -\frac{1}{9})$ $+\frac{1}{99}\sqrt{3306}e^4 \otimes e_9 + \frac{1}{99}\sqrt{3477}e^1 \otimes e_3$	{12789, 15789, 23457, 347}
952:37	$0, 0, 0, 0, \frac{1}{377}\sqrt{22078}e^{12}, \frac{1}{377}\sqrt{17290}e^{13}, \frac{38}{377}\sqrt{7}e^{24}, \frac{1}{377}\sqrt{39634}e^{15},$ $\frac{1}{377}\sqrt{1330}e^{16}$	$(\frac{55}{377}, -\frac{84}{377}, -\frac{6}{29}, \frac{159}{377}, -\frac{1}{13}, -\frac{23}{377}, \frac{75}{377}, \frac{2}{29}, \frac{32}{377})$ $+\frac{6}{377}\sqrt{1330}e^1 \otimes e_3 + \frac{8}{377}\sqrt{665}e^4 \otimes e_8$	{1278, 1457, 235789, 3479}
952:37	$0, 0, 0, 0, \frac{1}{429}\sqrt{43014}e^{12}, \frac{2}{429}\sqrt{10653}e^{13}, \frac{2}{429}\sqrt{13065}e^{24}, \frac{1}{143}\sqrt{670}e^{15},$ $\frac{3}{143}\sqrt{670}e^{16}$	$(-\frac{23}{143}, \frac{9}{143}, \frac{30}{143}, \frac{51}{143}, -\frac{14}{143}, \frac{7}{143}, \frac{60}{143}, -\frac{37}{143}, -\frac{16}{143})$ $+\frac{1}{429}\sqrt{93666}e^4 \otimes e_9 + \frac{2}{429}\sqrt{14673}e^3 \otimes e_8$	{124568, 139, 248, 3569}
952:37	$0, 0, 0, 0, \frac{1}{13}\sqrt{10}e^{12}, \frac{1}{13}\sqrt{10}e^{13}, \frac{2}{13}\sqrt{3}e^{24}, \frac{1}{13}\sqrt{6}e^{15},$ $\frac{1}{13}\sqrt{10}e^{16}$	$(-\frac{1}{13}, 0, \frac{2}{13}, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, 0)$ $+\frac{2}{13}\sqrt{3}e^3 \otimes e_7 + \frac{2}{13}\sqrt{3}e^4 \otimes e_9$	{139, 1467, 3569, 457}
952:37	$0, 0, 0, 0, \frac{10}{287}\sqrt{418}e^{12}, \frac{2}{287}\sqrt{15466}e^{13}, \frac{1}{287}\sqrt{53922}e^{24}, \frac{19}{287}\sqrt{66}e^{15},$ $\frac{1}{287}\sqrt{28006}e^{16}$	$(-\frac{2}{41}, \frac{15}{287}, \frac{139}{287}, -\frac{85}{287}, \frac{1}{287}, \frac{125}{287}, -\frac{10}{41}, -\frac{13}{287}, \frac{111}{287})$ $+\frac{9}{287}\sqrt{1254}e^3 \otimes e_7$	{1234589, 125678, 139, 1467, 234689, 278, 3569, 457}
952:37	$0, 0, 0, 0, \frac{20}{2869}\sqrt{5658}e^{12}, \frac{2}{2869}\sqrt{136735}e^{13}, \frac{2}{2869}\sqrt{89585}e^{24},$ $\frac{2}{2869}\sqrt{557313}e^{15}, \frac{4}{2869}\sqrt{68839}e^{16}$	$(-\frac{729}{2869}, \frac{1053}{2869}, \frac{1481}{2869}, -\frac{833}{2869}, \frac{324}{2869}, \frac{752}{2869}, \frac{220}{2869}, -\frac{405}{2869}, \frac{23}{2869})$ $+\frac{2}{2869}\sqrt{1172149}e^2 \otimes e_4 + \frac{46}{2869}\sqrt{2337}e^3 \otimes e_8$	{12689, 1345, 2589, 346}
952:37	$0, 0, 0, 0, \frac{3}{437}\sqrt{6670}e^{12}, \frac{1}{437}\sqrt{29290}e^{13}, \frac{58}{437}\sqrt{5}e^{24}, \frac{1}{437}\sqrt{37410}e^{15},$ $\frac{5}{437}\sqrt{290}e^{16}$	$(\frac{51}{437}, \frac{60}{437}, -\frac{94}{437}, -\frac{85}{437}, \frac{111}{437}, -\frac{43}{437}, -\frac{25}{437}, \frac{162}{437}, \frac{8}{437})$ $+\frac{2}{437}\sqrt{16530}e^1 \otimes e_3 + \frac{4}{437}\sqrt{3190}e^2 \otimes e_4$	{128, 145, 23589, 349}
952:37	$0, 0, 0, 0, \frac{2}{145}\sqrt{17}e^{12}, \frac{2}{725}\sqrt{16405}e^{13}, \frac{4}{725}\sqrt{3315}e^{24}, \frac{2}{725}\sqrt{11985}e^{15},$ $\frac{2}{725}\sqrt{9265}e^{16}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{1}{5}, -\frac{14}{145}, -\frac{2}{29}, \frac{34}{145}, -\frac{1}{5}, -\frac{1}{29}, \frac{39}{145})$ $+\frac{12}{725}\sqrt{595}e^3 \otimes e_8 + \frac{6}{725}\sqrt{3655}e^1 \otimes e_7$	{12468, 1359, 2578, 34679}
952:37	$0, 0, 0, 0, \frac{14}{3121}\sqrt{2158}e^{12}, \frac{140}{3121}\sqrt{13}e^{13}, \frac{14}{3121}\sqrt{12805}e^{24},$ $\frac{14}{3121}\sqrt{6331}e^{15}, \frac{14}{3121}\sqrt{4745}e^{16}$	$(-\frac{565}{3121}, \frac{597}{3121}, \frac{453}{3121}, \frac{741}{3121}, \frac{32}{3121}, -\frac{112}{3121}, \frac{1338}{3121}, -\frac{533}{3121}, -\frac{677}{3121})$ $+\frac{14}{3121}\sqrt{17849}e^4 \otimes e_8 + \frac{42}{3121}\sqrt{2015}e^2 \otimes e_9$	{123678, 14579, 23578, 4679}
952:37	$0, 0, 0, 0, \frac{10}{407}\sqrt{290}e^{12}, \frac{20}{407}\sqrt{30}e^{13}, \frac{5}{407}\sqrt{330}e^{24}, \frac{5}{407}\sqrt{690}e^{15},$ $\frac{10}{407}\sqrt{185}e^{16}$	$(\frac{2}{37}, \frac{6}{37}, -\frac{103}{407}, \frac{8}{407}, \frac{8}{37}, -\frac{81}{407}, \frac{2}{11}, \frac{10}{37}, -\frac{59}{407})$ $+\frac{10}{407}\sqrt{435}e^2 \otimes e_9 + \frac{40}{407}\sqrt{30}e^1 \otimes e_3$	{14579, 159, 23458, 23578}
952:37	$0, 0, 0, 0, \frac{1}{71}\sqrt{3422}e^{12}, \frac{1}{71}\sqrt{1770}e^{13}, \frac{2}{71}\sqrt{177}e^{24}, \frac{3}{71}\sqrt{354}e^{15},$ $\frac{1}{71}\sqrt{590}e^{16}$	$(\frac{25}{71}, -\frac{12}{71}, -\frac{34}{71}, \frac{17}{71}, \frac{13}{71}, -\frac{9}{71}, \frac{5}{71}, \frac{38}{71}, \frac{16}{71})$ $+\frac{2}{71}\sqrt{1770}e^1 \otimes e_3$	{124789, 1289, 1459, 1579, 234578, 2358, 34, 37}
952:37	$0, 0, 0, 0, \frac{2}{353}\sqrt{4541}e^{12}, \frac{3}{353}\sqrt{2390}e^{13}, \frac{1}{353}\sqrt{34177}e^{24}, \frac{1}{706}\sqrt{17686}e^{15},$ $\frac{5}{706}\sqrt{1195}e^{16}$	$(-\frac{55}{706}, -\frac{123}{1412}, \frac{245}{706}, \frac{135}{1412}, -\frac{233}{1412}, \frac{95}{353}, \frac{3}{353}, -\frac{343}{1412}, \frac{135}{706})$ $+\frac{1}{706}\sqrt{134318}e^4 \otimes e_8 + \frac{1}{706}\sqrt{168495}e^3 \otimes e_7$	{123459, 1389, 23469, 35689}
952:37	$0, 0, 0, 0, \frac{8}{1169}\sqrt{2614}e^{12}, \frac{2}{1169}\sqrt{206506}e^{13}, \frac{1}{1169}\sqrt{243102}e^{24},$ $\frac{1}{1169}\sqrt{744990}e^{15}, \frac{2}{1169}\sqrt{1307}e^{16}$	$(-\frac{320}{1169}, \frac{186}{1169}, \frac{853}{1169}, \frac{122}{1169}, -\frac{134}{1169}, \frac{533}{1169}, \frac{44}{167}, -\frac{454}{1169}, \frac{213}{1169})$ $+\frac{6}{1169}\sqrt{69271}e^3 \otimes e_8$	{12345, 12357, 146789, 1689, 2346, 2367, 45789, 589}
952:37	$0, 0, 0, 0, \frac{10}{287}\sqrt{418}e^{12}, \frac{1}{287}\sqrt{28006}e^{13}, \frac{1}{287}\sqrt{53922}e^{24}, \frac{19}{287}\sqrt{66}e^{15},$ $\frac{2}{287}\sqrt{15466}e^{16}$	$(-\frac{2}{41}, \frac{15}{287}, -\frac{23}{287}, \frac{158}{287}, \frac{1}{287}, -\frac{37}{287}, \frac{173}{287}, -\frac{13}{287}, -\frac{51}{287})$ $+\frac{9}{287}\sqrt{1254}e^4 \otimes e_9$	{1235789, 124568, 139, 1467, 236789, 248, 3569, 457}
952:37	$0, 0, 0, 0, \frac{48}{893}\sqrt{55}e^{12}, \frac{8}{893}\sqrt{1122}e^{13}, \frac{8}{893}\sqrt{1639}e^{24}, \frac{8}{893}\sqrt{1551}e^{15},$ $\frac{8}{893}\sqrt{1122}e^{16}$	$(\frac{102}{893}, \frac{51}{893}, \frac{12}{893}, -\frac{301}{893}, \frac{153}{893}, \frac{6}{47}, -\frac{250}{893}, \frac{255}{893}, \frac{216}{893})$ $+\frac{24}{893}\sqrt{627}e^1 \otimes e_7 + \frac{8}{893}\sqrt{2926}e^2 \otimes e_4$	{2356789, 2578, 34679, 47}
952:37	$0, 0, 0, 0, \frac{3}{19}\sqrt{46}e^{12}, \frac{1}{19}\sqrt{138}e^{13}, \frac{2}{19}\sqrt{23}e^{24}, \frac{1}{19}\sqrt{138}e^{15},$ $\frac{1}{19}\sqrt{138}e^{16}$	$(-\frac{3}{19}, \frac{12}{19}, \frac{6}{19}, -\frac{11}{19}, \frac{9}{19}, \frac{3}{19}, \frac{1}{19}, \frac{6}{19}, 0)$ $+\frac{4}{19}\sqrt{46}e^2 \otimes e_4$	{123689, 128, 134569, 145, 23589, 2568, 349, 46}
952:37	$0, 0, 0, 0, \frac{2}{209}\sqrt{671}e^{12}, \frac{2}{209}\sqrt{3355}e^{13}, \frac{2}{209}\sqrt{4026}e^{24}, \frac{2}{209}\sqrt{2013}e^{15},$ $\frac{2}{209}\sqrt{3355}e^{16}$	$(\frac{5}{19}, -\frac{39}{209}, -\frac{17}{209}, -\frac{28}{209}, \frac{16}{209}, \frac{2}{11}, -\frac{67}{209}, \frac{71}{209}, \frac{93}{209})$ $+\frac{6}{209}\sqrt{1159}e^1 \otimes e_7$	{123489, 12468, 1359, 156, 2356789, 2578, 34679, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:37	$0, 0, 0, 0, \frac{14}{691}\sqrt{110}e^{12}, \frac{14}{691}\sqrt{374}e^{13}, \frac{56}{691}\sqrt{33}e^{24}, \frac{42}{691}\sqrt{22}e^{15},$ $\frac{14}{691}\sqrt{462}e^{16}$	$(-\frac{196}{691}, \frac{264}{691}, \frac{264}{691}, -\frac{42}{691}, \frac{68}{691}, \frac{68}{691}, \frac{222}{691}, -\frac{128}{691}, -\frac{128}{691})$ $-\frac{14}{691}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{691}\sqrt{1334}e^2 \otimes e_9$	{12468, 12678, 134579, 1359, 2458, 2578, 34679, 369}
952:37	$0, 0, 0, 0, \frac{14}{691}\sqrt{110}e^{12}, \frac{14}{691}\sqrt{374}e^{13}, \frac{56}{691}\sqrt{33}e^{24}, \frac{42}{691}\sqrt{22}e^{15},$ $\frac{14}{691}\sqrt{462}e^{16}$	$(-\frac{196}{691}, \frac{264}{691}, \frac{264}{691}, -\frac{42}{691}, \frac{68}{691}, \frac{68}{691}, \frac{222}{691}, -\frac{128}{691}, -\frac{128}{691})$ $+\frac{14}{691}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{691}\sqrt{1334}e^2 \otimes e_9$	{12468, 12678, 134579, 1359, 2458, 2578, 34679, 369}
952:37	$0, 0, 0, 0, \frac{8}{89}e^{12}, \frac{8}{89}\sqrt{5}e^{13}, \frac{4}{89}\sqrt{58}e^{24}, \frac{4}{89}\sqrt{46}e^{15},$ $\frac{8}{89}\sqrt{5}e^{16}$	$(\frac{10}{89}, -\frac{21}{89}, 0, \frac{15}{89}, -\frac{11}{89}, \frac{10}{89}, -\frac{6}{89}, -\frac{1}{89}, \frac{20}{89})$ $+\frac{12}{89}\sqrt{10}e^1 \otimes e_7 + \frac{8}{89}\sqrt{17}e^4 \otimes e_8$	{2356789, 2578, 34679, 47}
952:37	$0, 0, 0, 0, \frac{2}{1193}\sqrt{76370}e^{12}, \frac{4}{1193}\sqrt{6546}e^{13}, \frac{3}{1193}\sqrt{85098}e^{24},$ $\frac{1}{1193}\sqrt{150558}e^{15}, \frac{2}{1193}\sqrt{204017}e^{16}$	$(-\frac{278}{1193}, \frac{702}{1193}, \frac{167}{1193}, -\frac{136}{1193}, \frac{424}{1193}, -\frac{111}{1193}, \frac{566}{1193}, \frac{146}{1193}, -\frac{389}{1193})$ $+\frac{2}{1193}\sqrt{533499}e^2 \otimes e_9$	{1246, 1267, 1345789, 13589, 245, 257, 346789, 3689}
952:37	$0, 0, 0, 0, \frac{16}{1697}\sqrt{286}e^{12}, \frac{1}{1697}\sqrt{120406}e^{13}, \frac{1}{1697}\sqrt{186186}e^{24},$ $\frac{13}{1697}\sqrt{66}e^{15}, \frac{4}{1697}\sqrt{11869}e^{16}$	$(\frac{178}{1697}, -\frac{219}{1697}, -\frac{245}{1697}, \frac{254}{1697}, -\frac{41}{1697}, -\frac{67}{1697}, \frac{35}{1697}, \frac{137}{1697}, \frac{111}{1697})$ $+\frac{132}{1697}\sqrt{13}e^1 \otimes e_7 + \frac{27}{1697}\sqrt{286}e^4 \otimes e_9$	{124568, 139, 236789, 457}
952:37	$0, 0, 0, 0, \frac{3}{418}\sqrt{2630}e^{12}, \frac{1}{209}\sqrt{17358}e^{13}, \frac{1}{209}\sqrt{15517}e^{24}, \frac{1}{209}\sqrt{5523}e^{15},$ $\frac{1}{418}\sqrt{24459}e^{16}$	$(-\frac{39}{418}, \frac{177}{836}, \frac{177}{418}, -\frac{349}{836}, \frac{9}{76}, \frac{69}{209}, -\frac{43}{209}, \frac{21}{836}, \frac{9}{38})$ $+\frac{1}{418}\sqrt{57334}e^2 \otimes e_4 + \frac{3}{418}\sqrt{14991}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:37	$0, 0, 0, 0, \frac{10}{3889}\sqrt{2717}e^{12}, \frac{2}{3889}\sqrt{127281}e^{13}, \frac{132}{3889}\sqrt{57}e^{24},$ $\frac{2}{3889}\sqrt{44517}e^{15}, \frac{2}{3889}\sqrt{233453}e^{16}$	$(\frac{101}{3889}, \frac{441}{3889}, -\frac{179}{3889}, -\frac{758}{3889}, \frac{542}{3889}, -\frac{78}{3889}, -\frac{317}{3889}, \frac{643}{3889}, \frac{23}{3889})$ $+\frac{4}{3889}\sqrt{79629}e^2 \otimes e_9 + \frac{6}{3889}\sqrt{44935}e^1 \otimes e_7$	{12468, 1359, 2578, 34679}
952:37	$0, 0, 0, 0, \frac{1}{101}\sqrt{910}e^{12}, \frac{91}{303}\sqrt{2}e^{13}, \frac{2}{303}\sqrt{5278}e^{24}, \frac{1}{303}\sqrt{8554}e^{15},$ $\frac{2}{303}\sqrt{3731}e^{16}$	$(-\frac{49}{303}, \frac{83}{303}, \frac{30}{101}, -\frac{28}{101}, \frac{34}{303}, \frac{41}{303}, -\frac{1}{303}, -\frac{5}{101}, -\frac{8}{303})$ $+\frac{1}{303}\sqrt{27118}e^3 \otimes e_7 + \frac{2}{303}\sqrt{5551}e^2 \otimes e_9$	{125678, 139, 278, 3569}
952:37	$0, 0, 0, 0, \frac{1}{77}\sqrt{146}e^{12}, \frac{1}{77}\sqrt{730}e^{13}, \frac{2}{77}\sqrt{949}e^{24}, \frac{1}{77}\sqrt{4234}e^{15},$ $\frac{1}{77}\sqrt{730}e^{16}$	$(-\frac{5}{77}, -\frac{12}{77}, \frac{18}{77}, \frac{51}{77}, -\frac{17}{77}, \frac{13}{77}, \frac{39}{77}, -\frac{2}{7}, \frac{8}{77})$ $+\frac{8}{77}\sqrt{146}e^4 \otimes e_8$	{1234569, 1245, 13689, 18, 2349, 246, 3589, 568}
952:38	$0, 0, 0, 0, \frac{1}{499}\sqrt{3130}e^{12}, \frac{4}{499}\sqrt{6573}e^{13}, \frac{2}{499}\sqrt{27857}e^{24}, \frac{2}{499}\sqrt{4695}e^{25},$ $\frac{4}{499}\sqrt{6573}e^{16}$	$(\frac{168}{499}, -\frac{55}{499}, -\frac{80}{499}, -\frac{90}{499}, \frac{113}{499}, \frac{88}{499}, -\frac{145}{499}, \frac{58}{499}, \frac{256}{499})$ $+\frac{1}{499}\sqrt{257286}e^1 \otimes e_7$	{1234589, 124568, 1389, 168, 23679, 27, 345679, 457}
952:38	$0, 0, 0, 0, \frac{4}{1255}\sqrt{11058}e^{12}, \frac{4}{1255}\sqrt{19497}e^{13}, \frac{4}{1255}\sqrt{13483}e^{24},$ $\frac{4}{1255}\sqrt{18042}e^{25}, \frac{4}{1255}\sqrt{1455}e^{16}$	$(-\frac{171}{1255}, \frac{258}{1255}, \frac{516}{1255}, -\frac{518}{1255}, \frac{87}{1255}, \frac{69}{251}, -\frac{52}{251}, \frac{69}{251}, \frac{174}{1255})$ $+\frac{12}{1255}\sqrt{6014}e^3 \otimes e_7 + \frac{4}{1255}\sqrt{52186}e^2 \otimes e_4$	{12678, 145678, 257, 47}
952:38	$0, 0, 0, 0, \frac{110}{703}\sqrt{19}e^{12}, \frac{40}{703}\sqrt{209}e^{13}, \frac{20}{703}\sqrt{902}e^{24}, \frac{60}{703}\sqrt{22}e^{25},$ $\frac{10}{703}\sqrt{1177}e^{16}$	$(-\frac{90}{703}, \frac{65}{703}, \frac{21}{37}, -\frac{216}{703}, -\frac{25}{703}, \frac{309}{703}, -\frac{151}{703}, \frac{40}{703}, \frac{219}{703})$ $+\frac{10}{703}\sqrt{6501}e^3 \otimes e_7$	{1234589, 125678, 1389, 14678, 23469, 27, 3569, 457}
952:38	$0, 0, 0, 0, \frac{5}{1747}\sqrt{6262}e^{12}, \frac{70}{1747}\sqrt{31}e^{13}, \frac{5}{1747}\sqrt{26474}e^{24},$ $\frac{10}{1747}\sqrt{1209}e^{25}, \frac{20}{1747}\sqrt{2387}e^{16}$	$(\frac{225}{1747}, -\frac{55}{1747}, -\frac{550}{1747}, \frac{675}{1747}, \frac{170}{1747}, -\frac{325}{1747}, \frac{620}{1747}, \frac{115}{1747}, -\frac{100}{1747})$ $+\frac{15}{1747}\sqrt{6262}e^4 \otimes e_9 + \frac{5}{1747}\sqrt{39990}e^1 \otimes e_3$	{124568, 14678, 23679, 3569}
952:38	$0, 0, 0, 0, \frac{2}{361}\sqrt{5811}e^{12}, \frac{4}{361}\sqrt{894}e^{13}, \frac{1}{361}\sqrt{9238}e^{24}, \frac{1}{361}\sqrt{15198}e^{25},$ $\frac{4}{361}\sqrt{894}e^{16}$	$(\frac{48}{361}, \frac{24}{361}, -\frac{3}{361}, -\frac{125}{361}, \frac{72}{361}, \frac{45}{361}, -\frac{101}{361}, \frac{96}{361}, \frac{93}{361})$ $+\frac{1}{361}\sqrt{41422}e^2 \otimes e_4 + \frac{1}{361}\sqrt{52746}e^1 \otimes e_7$	{235679, 257, 34679, 47}
952:38	$0, 0, 0, 0, \frac{2}{1161}\sqrt{11914}e^{12}, \frac{1}{1161}\sqrt{12558}e^{13}, \frac{35}{1161}\sqrt{138}e^{24},$ $\frac{1}{1161}\sqrt{192878}e^{25}, \frac{2}{1161}\sqrt{34615}e^{16}$	$(-\frac{176}{1161}, \frac{83}{1161}, \frac{113}{1161}, \frac{104}{387}, -\frac{31}{387}, -\frac{7}{129}, \frac{395}{1161}, -\frac{10}{1161}, -\frac{239}{1161})$ $+\frac{23}{1161}\sqrt{714}e^2 \otimes e_9 + \frac{2}{1161}\sqrt{71162}e^4 \otimes e_8$	{12678, 13589, 245, 34679}
952:38	$0, 0, 0, 0, \frac{4}{89}\sqrt{13}e^{12}, \frac{2}{89}\sqrt{403}e^{13}, \frac{2}{89}\sqrt{221}e^{24}, \frac{6}{89}\sqrt{13}e^{25},$ $\frac{4}{89}\sqrt{65}e^{16}$	$(\frac{9}{89}, -\frac{11}{89}, \frac{13}{89}, -\frac{6}{89}, -\frac{2}{89}, \frac{22}{89}, -\frac{17}{89}, -\frac{13}{89}, \frac{31}{89})$ $+\frac{2}{89}\sqrt{429}e^3 \otimes e_8 + \frac{6}{89}\sqrt{65}e^1 \otimes e_7$	{123459, 139, 278, 4578}
952:38	$0, 0, 0, 0, \frac{2}{21}\sqrt{23}e^{12}, \frac{2}{21}\sqrt{23}e^{13}, \frac{2}{21}\sqrt{69}e^{24}, \frac{1}{21}\sqrt{230}e^{25},$ $\frac{2}{21}\sqrt{23}e^{16}$	$(\frac{2}{21}, -\frac{5}{21}, \frac{2}{21}, \frac{5}{7}, -\frac{1}{7}, \frac{4}{21}, \frac{10}{21}, -\frac{8}{21}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{782}e^4 \otimes e_8$	{123459, 12456, 13479, 1467, 236789, 278, 35689, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:38	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{60}{169}e^{13}, \frac{10}{169}\sqrt{19}e^{24}, \frac{10}{169}\sqrt{29}e^{25}, \frac{10}{169}\sqrt{57}e^{16}$	$(\frac{15}{169}, -\frac{25}{169}, -\frac{15}{169}, \frac{5}{13}, -\frac{10}{169}, 0, \frac{40}{169}, -\frac{35}{169}, \frac{15}{169})$ $-\frac{10}{169}\sqrt{85}e^1 \otimes e_8 + \frac{30}{169}\sqrt{7}e^4 \otimes e_9$	{123579, 12456, 139, 1467, 236789, 248, 35689, 4578}
952:38	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{60}{169}e^{13}, \frac{10}{169}\sqrt{19}e^{24}, \frac{10}{169}\sqrt{29}e^{25}, \frac{10}{169}\sqrt{57}e^{16}$	$(\frac{15}{169}, -\frac{25}{169}, -\frac{15}{169}, \frac{5}{13}, -\frac{10}{169}, 0, \frac{40}{169}, -\frac{35}{169}, \frac{15}{169})$ $+\frac{10}{169}\sqrt{85}e^1 \otimes e_8 + \frac{30}{169}\sqrt{7}e^4 \otimes e_9$	{123579, 12456, 139, 1467, 236789, 248, 35689, 4578}
952:38	$0, 0, 0, 0, \frac{1}{473}\sqrt{9734}e^{12}, \frac{1}{473}\sqrt{22451}e^{13}, \frac{1}{473}\sqrt{11461}e^{24}, \frac{1}{473}\sqrt{45687}e^{25}, \frac{1}{473}\sqrt{26690}e^{16}$	$(-\frac{3}{11}, \frac{73}{473}, \frac{174}{473}, \frac{2}{43}, -\frac{56}{473}, \frac{45}{473}, \frac{95}{473}, \frac{17}{473}, -\frac{84}{473})$ $+\frac{1}{473}\sqrt{58718}e^3 \otimes e_8 + \frac{1}{473}\sqrt{71435}e^2 \otimes e_9$	{12468, 12678, 34679, 369}
952:38	$0, 0, 0, 0, \frac{10}{4561}\sqrt{3715}e^{12}, \frac{10}{4561}\sqrt{5545}e^{13}, \frac{440}{4561}\sqrt{5}e^{24}, \frac{60}{4561}\sqrt{70}e^{25}, \frac{20}{4561}\sqrt{2210}e^{16}$	$(\frac{450}{4561}, -\frac{265}{4561}, -\frac{685}{4561}, \frac{465}{4561}, \frac{185}{4561}, -\frac{235}{4561}, \frac{200}{4561}, -\frac{80}{4561}, \frac{215}{4561})$ $+\frac{10}{4561}\sqrt{9885}e^4 \otimes e_9 + \frac{600}{4561}\sqrt{3}e^1 \otimes e_7$	{124568, 1389, 23679, 457}
952:38	$0, 0, 0, 0, \frac{2}{221}\sqrt{9879}e^{12}, \frac{6}{221}\sqrt{267}e^{13}, \frac{2}{221}\sqrt{5162}e^{24}, \frac{2}{221}\sqrt{8277}e^{25}, \frac{6}{221}\sqrt{267}e^{16}$	$(-\frac{27}{221}, \frac{75}{221}, \frac{57}{221}, -\frac{103}{221}, \frac{48}{221}, \frac{30}{221}, -\frac{28}{221}, \frac{123}{221}, \frac{3}{221})$ $+\frac{2}{221}\sqrt{16999}e^2 \otimes e_4$	{123689, 128, 1345689, 1458, 2359, 256, 349, 46}
952:38	$0, 0, 0, 0, \frac{2}{1409}\sqrt{317342}e^{12}, \frac{10}{1409}\sqrt{1571}e^{13}, \frac{4}{1409}\sqrt{17281}e^{24}, \frac{2}{1409}\sqrt{89547}e^{25}, \frac{1}{1409}\sqrt{1052570}e^{16}$	$(\frac{720}{1409}, -\frac{176}{1409}, -\frac{851}{1409}, \frac{342}{1409}, \frac{544}{1409}, -\frac{131}{1409}, \frac{166}{1409}, \frac{368}{1409}, \frac{589}{1409})$ $+\frac{1}{1409}\sqrt{3629010}e^1 \otimes e_3$	{124789, 1289, 14589, 15789, 23457, 235, 34, 37}
952:38	$0, 0, 0, 0, \frac{28}{3645}\sqrt{2047}e^{12}, \frac{14}{3645}\sqrt{805}e^{13}, \frac{14}{3645}\sqrt{8763}e^{24}, \frac{14}{3645}\sqrt{12857}e^{25}, \frac{28}{3645}\sqrt{3243}e^{16}$	$(\frac{1093}{3645}, -\frac{167}{729}, -\frac{43}{135}, \frac{559}{1215}, \frac{86}{1215}, -\frac{68}{3645}, \frac{842}{3645}, -\frac{577}{3645}, \frac{205}{729})$ $+\frac{14}{3645}\sqrt{36731}e^4 \otimes e_8 + \frac{322}{3645}\sqrt{69}e^1 \otimes e_3$	{12678, 1568, 234569, 34679}
952:38	$0, 0, 0, 0, \frac{6}{1339}\sqrt{1541}e^{12}, \frac{18}{1339}\sqrt{805}e^{13}, \frac{6}{1339}\sqrt{10327}e^{24}, \frac{6}{1339}\sqrt{1357}e^{25}, \frac{18}{1339}\sqrt{805}e^{16}$	$(\frac{315}{1339}, -\frac{276}{1339}, -\frac{150}{1339}, \frac{177}{1339}, \frac{3}{103}, \frac{165}{1339}, -\frac{99}{1339}, -\frac{237}{1339}, \frac{480}{1339})$ $+\frac{138}{1339}\sqrt{31}e^1 \otimes e_7 + \frac{6}{1339}\sqrt{10603}e^4 \otimes e_8$	{123459, 12456, 236789, 278}
952:38	$0, 0, 0, 0, \frac{12}{859}\sqrt{470}e^{12}, \frac{12}{859}\sqrt{415}e^{13}, \frac{4}{859}\sqrt{6285}e^{24}, \frac{8}{859}\sqrt{435}e^{25}, \frac{12}{859}\sqrt{415}e^{16}$	$(-\frac{145}{859}, \frac{50}{859}, \frac{216}{859}, \frac{46}{859}, -\frac{95}{859}, \frac{71}{859}, \frac{96}{859}, -\frac{45}{859}, -\frac{74}{859})$ $+\frac{4}{859}\sqrt{5910}e^3 \otimes e_7 + \frac{4}{859}\sqrt{5910}e^4 \otimes e_9$	{1389, 14678, 3569, 457}
952:38	$0, 0, 0, 0, \frac{1}{33}\sqrt{210}e^{12}, \frac{4}{33}\sqrt{15}e^{13}, \frac{4}{33}\sqrt{15}e^{24}, \frac{1}{11}\sqrt{10}e^{25}, \frac{1}{11}\sqrt{30}e^{16}$	$(-\frac{2}{11}, 0, \frac{3}{11}, \frac{4}{11}, -\frac{2}{11}, \frac{1}{11}, \frac{4}{11}, -\frac{2}{11}, -\frac{1}{11})$ $+\frac{1}{33}\sqrt{390}e^3 \otimes e_8 + \frac{4}{33}\sqrt{30}e^4 \otimes e_9$	{123579, 139, 248, 4578}
952:38	$0, 0, 0, 0, \frac{2}{135}\sqrt{713}e^{12}, \frac{2}{135}\sqrt{874}e^{13}, \frac{2}{45}\sqrt{138}e^{24}, \frac{4}{135}\sqrt{23}e^{25}, \frac{2}{135}\sqrt{345}e^{16}$	$(-\frac{8}{135}, -\frac{13}{135}, \frac{1}{3}, \frac{4}{45}, -\frac{7}{45}, \frac{37}{135}, -\frac{1}{135}, -\frac{34}{135}, \frac{29}{135})$ $+\frac{46}{135}\sqrt{3}e^3 \otimes e_7 + \frac{4}{135}\sqrt{299}e^4 \otimes e_8$	{123459, 1467, 278, 35689}
952:38	$0, 0, 0, 0, \frac{110}{703}\sqrt{19}e^{12}, \frac{10}{703}\sqrt{1177}e^{13}, \frac{20}{703}\sqrt{902}e^{24}, \frac{60}{703}\sqrt{22}e^{25}, \frac{40}{703}\sqrt{209}e^{16}$	$(-\frac{90}{703}, \frac{65}{703}, \frac{5}{703}, \frac{375}{703}, -\frac{25}{703}, \frac{85}{703}, \frac{440}{703}, \frac{40}{703}, -\frac{175}{703})$ $+\frac{10}{703}\sqrt{6501}e^4 \otimes e_9$	{1235789, 124568, 1389, 14678, 23679, 24, 3569, 457}
952:38	$0, 0, 0, 0, \frac{6}{3529}\sqrt{58235}e^{12}, \frac{2}{3529}\sqrt{191869}e^{13}, \frac{2}{3529}\sqrt{391094}e^{24}, \frac{2}{3529}\sqrt{851457}e^{25}, \frac{10}{3529}\sqrt{4291}e^{16}$	$(-\frac{663}{3529}, \frac{459}{3529}, \frac{1481}{3529}, -\frac{767}{3529}, -\frac{204}{3529}, \frac{818}{3529}, -\frac{308}{3529}, \frac{255}{3529}, \frac{155}{3529})$ $+\frac{2}{3529}\sqrt{1063555}e^2 \otimes e_4 + \frac{4}{3529}\sqrt{224358}e^3 \otimes e_8$	{12689, 145689, 2356, 346}
952:38	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{57}e^{13}, \frac{10}{169}\sqrt{19}e^{24}, \frac{10}{169}\sqrt{29}e^{25}, \frac{60}{169}e^{16}$	$(\frac{15}{169}, -\frac{25}{169}, \frac{27}{169}, \frac{2}{169}, -\frac{10}{169}, \frac{42}{169}, -\frac{23}{169}, -\frac{35}{169}, \frac{57}{169})$ $-\frac{10}{169}\sqrt{85}e^1 \otimes e_8 + \frac{30}{169}\sqrt{7}e^3 \otimes e_7$	{123459, 12567, 139, 1467, 234689, 278, 35689, 4578}
952:38	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{57}e^{13}, \frac{10}{169}\sqrt{19}e^{24}, \frac{10}{169}\sqrt{29}e^{25}, \frac{60}{169}e^{16}$	$(\frac{15}{169}, -\frac{25}{169}, \frac{27}{169}, \frac{2}{169}, -\frac{10}{169}, \frac{42}{169}, \frac{23}{169}, -\frac{35}{169}, \frac{57}{169})$ $+\frac{10}{169}\sqrt{85}e^1 \otimes e_8 + \frac{30}{169}\sqrt{7}e^3 \otimes e_7$	{123459, 12567, 139, 1467, 234689, 278, 35689, 4578}
952:38	$0, 0, 0, 0, \frac{2}{575}\sqrt{10990}e^{12}, \frac{2}{575}\sqrt{2041}e^{13}, \frac{6}{575}\sqrt{314}e^{24}, \frac{2}{575}\sqrt{8321}e^{25}, \frac{1}{575}\sqrt{45530}e^{16}$	$(\frac{24}{575}, \frac{72}{575}, -\frac{133}{575}, \frac{26}{575}, \frac{96}{575}, -\frac{109}{575}, \frac{98}{575}, \frac{168}{575}, -\frac{17}{115})$ $+\frac{1}{575}\sqrt{69394}e^1 \otimes e_3 + \frac{2}{575}\sqrt{22922}e^2 \otimes e_9$	{145789, 1589, 2345, 2357}
952:38	$0, 0, 0, 0, \frac{22}{197}\sqrt{3}e^{12}, \frac{4}{197}\sqrt{330}e^{13}, \frac{16}{197}\sqrt{33}e^{24}, \frac{8}{197}\sqrt{33}e^{25}, \frac{2}{197}\sqrt{1353}e^{16}$	$(-\frac{46}{197}, \frac{43}{197}, \frac{69}{197}, -\frac{40}{197}, -\frac{3}{197}, \frac{23}{197}, \frac{3}{197}, \frac{40}{197}, -\frac{23}{197})$ $+\frac{2}{197}\sqrt{2805}e^3 \otimes e_7 + \frac{44}{197}\sqrt{6}e^2 \otimes e_9$	{12567, 139, 278, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:38	$0, 0, 0, 0, \frac{2}{3985}\sqrt{1177077e^{12}}, \frac{2}{797}\sqrt{12787e^{13}}, \frac{4}{3985}\sqrt{140657e^{24}},$ $\frac{38}{3985}\sqrt{2019e^{25}}, \frac{14}{3985}\sqrt{673e^{16}}$	$(\frac{573}{3985}, \frac{417}{3985}, -\frac{773}{3985}, -\frac{929}{3985}, \frac{198}{797}, -\frac{40}{797}, -\frac{512}{3985}, \frac{1407}{3985}, \frac{373}{3985})$ $+\frac{2}{3985}\sqrt{1405897e^2} \otimes e_4 + \frac{4}{3985}\sqrt{264489e^1} \otimes e_3$	{1289, 14589, 235, 34}
952:38	$0, 0, 0, 0, \frac{1}{289}\sqrt{12466e^{12}}, \frac{4}{289}\sqrt{3523e^{13}}, \frac{4}{289}\sqrt{271e^{24}}, \frac{3}{289}\sqrt{5962e^{25}},$ $\frac{5}{289}\sqrt{542e^{16}}$	$(-\frac{54}{289}, -\frac{16}{289}, \frac{185}{289}, \frac{60}{289}, -\frac{70}{289}, \frac{131}{289}, \frac{44}{289}, -\frac{86}{289}, \frac{77}{289})$ $+\frac{1}{289}\sqrt{128454e^3} \otimes e_8$	{1234579, 12359, 1349, 1379, 2478, 28, 458, 578}
952:38	$0, 0, 0, 0, \frac{1}{551}\sqrt{4982e^{12}}, \frac{6}{551}\sqrt{265e^{13}}, \frac{4}{551}\sqrt{1007e^{24}}, \frac{4}{551}\sqrt{318e^{25}},$ $\frac{4}{551}\sqrt{1113e^{16}}$	$(\frac{12}{551}, \frac{49}{551}, -\frac{28}{551}, -\frac{90}{551}, \frac{61}{551}, -\frac{16}{551}, -\frac{41}{551}, \frac{110}{551}, -\frac{4}{551})$ $+\frac{1}{551}\sqrt{27030e^1} \otimes e_7 + \frac{6}{551}\sqrt{689e^2} \otimes e_9$	{12468, 13589, 257, 34679}
952:39	$0, 0, 0, 0, \frac{1}{166}\sqrt{1507e^{12}}, \frac{1}{249}\sqrt{4521e^{13}}, \frac{1}{166}\sqrt{1507e^{14}}, \frac{1}{249}\sqrt{11371e^{25}},$ $\frac{1}{166}\sqrt{3014e^{36}}$	$(-\frac{17}{83}, \frac{97}{996}, \frac{22}{83}, \frac{9}{332}, -\frac{107}{996}, \frac{5}{83}, -\frac{59}{332}, -\frac{5}{498}, \frac{27}{83})$ $+\frac{1}{498}\sqrt{55074e^2} \otimes e_7 + \frac{1}{83}\sqrt{1781e^3} \otimes e_8$	{124689, 156789, 2356, 3467}
952:39	$0, 0, 0, 0, \frac{1}{154}\sqrt{10063e^{12}}, \frac{1}{231}\sqrt{10410e^{13}}, \frac{1}{154}\sqrt{10063e^{14}},$ $\frac{1}{231}\sqrt{26719e^{25}}, \frac{1}{154}\sqrt{2082e^{36}}$	$(-\frac{20}{77}, \frac{355}{924}, \frac{19}{77}, -\frac{3}{28}, \frac{115}{924}, -\frac{1}{77}, -\frac{113}{308}, \frac{235}{462}, \frac{18}{77})$ $+\frac{1}{462}\sqrt{264414e^2} \otimes e_7$	{123468, 1248, 135678, 1578, 2359, 2569, 3479, 4679}
952:39	$0, 0, 0, 0, \frac{20}{193}\sqrt{2e^{12}}, \frac{20}{193}\sqrt{2e^{13}}, \frac{4}{579}\sqrt{195e^{14}}, \frac{4}{579}\sqrt{965e^{25}},$ $\frac{4}{579}\sqrt{965e^{36}}$	$(-\frac{26}{193}, \frac{38}{579}, \frac{38}{579}, \frac{34}{193}, -\frac{40}{579}, -\frac{40}{579}, \frac{8}{193}, -\frac{2}{579}, -\frac{2}{579})$ $+\frac{4}{579}\sqrt{1290e^2} \otimes e_9 + \frac{4}{579}\sqrt{1290e^3} \otimes e_8$	{1456789, 15689, 23456, 23567}
952:39	$0, 0, 0, 0, \frac{2}{453}\sqrt{4494e^{12}}, \frac{2}{453}\sqrt{4494e^{13}}, \frac{2}{453}\sqrt{35310e^{14}}, \frac{2}{453}\sqrt{32314e^{25}},$ $\frac{2}{151}\sqrt{642e^{36}}$	$(-\frac{14}{151}, -\frac{49}{453}, \frac{25}{151}, \frac{96}{151}, -\frac{91}{453}, \frac{11}{151}, \frac{82}{151}, -\frac{140}{453}, \frac{36}{151})$ $+\frac{4}{453}\sqrt{19902e^4} \otimes e_8$	{123456, 1245, 1346, 14, 2389, 2689, 3589, 5689}
952:39	$0, 0, 0, 0, \frac{8}{149}\sqrt{210e^{12}}, \frac{8}{149}\sqrt{210e^{13}}, \frac{8}{149}\sqrt{95e^{14}}, \frac{24}{149}\sqrt{5e^{25}},$ $\frac{24}{149}\sqrt{5e^{36}}$	$(\frac{84}{149}, -\frac{24}{149}, -\frac{24}{149}, -\frac{76}{149}, \frac{60}{149}, \frac{60}{149}, \frac{8}{149}, \frac{36}{149}, \frac{36}{149})$ $+\frac{8}{149}\sqrt{610e^1} \otimes e_4$	{12389, 12689, 15689, 23456, 245, 4}
952:39	$0, 0, 0, 0, \frac{8}{4523}\sqrt{76818e^{12}}, \frac{40}{4523}\sqrt{354e^{13}}, \frac{8}{4523}\sqrt{27553e^{14}},$ $\frac{8}{4523}\sqrt{56109e^{25}}, \frac{8}{4523}\sqrt{10797e^{36}}$	$(\frac{300}{4523}, \frac{600}{4523}, \frac{216}{4523}, -\frac{1588}{4523}, \frac{900}{4523}, \frac{516}{4523}, -\frac{1288}{4523}, \frac{1500}{4523}, \frac{732}{4523})$ $+\frac{384}{4523}\sqrt{59e^2} \otimes e_7 + \frac{8}{4523}\sqrt{98530e^1} \otimes e_4$	{135789, 156789, 3467, 47}
952:39	$0, 0, 0, 0, \frac{1}{156}\sqrt{11058e^{12}}, \frac{1}{156}\sqrt{1455e^{13}}, \frac{1}{156}\sqrt{1455e^{14}}, \frac{1}{78}\sqrt{2522e^{25}},$ $\frac{1}{78}\sqrt{2522e^{36}}$	$(-\frac{5}{52}, \frac{47}{156}, -\frac{35}{312}, \frac{23}{104}, \frac{39}{312}, -\frac{5}{24}, \frac{1}{8}, \frac{79}{156}, -\frac{25}{78})$ $+\frac{1}{156}\sqrt{25026e^2} \otimes e_9$	{1234678, 12368, 12478, 128, 349, 379, 469, 679}
952:39	$0, 0, 0, 0, \frac{8}{1657}\sqrt{8490e^{12}}, \frac{24}{1657}\sqrt{210e^{13}}, \frac{8}{1657}\sqrt{2505e^{14}},$ $\frac{24}{1657}\sqrt{595e^{25}}, \frac{24}{1657}\sqrt{595e^{36}}$	$(\frac{252}{1657}, \frac{148}{1657}, -\frac{292}{1657}, -\frac{228}{1657}, \frac{400}{1657}, -\frac{40}{1657}, \frac{24}{1657}, \frac{548}{1657}, -\frac{332}{1657})$ $+\frac{160}{1657}\sqrt{33e^2} \otimes e_9 + \frac{8}{1657}\sqrt{8790e^1} \otimes e_4$	{13589, 15689, 23456, 245}
952:39	$0, 0, 0, 0, \frac{16}{4587}\sqrt{8979e^{12}}, \frac{56}{4587}\sqrt{246e^{13}}, \frac{8}{4587}\sqrt{22755e^{14}},$ $\frac{8}{4587}\sqrt{62689e^{25}}, \frac{8}{1529}\sqrt{4387e^{36}}$	$(-\frac{196}{1529}, \frac{44}{417}, -\frac{40}{1529}, \frac{564}{1529}, -\frac{104}{4587}, -\frac{236}{1529}, \frac{368}{1529}, \frac{380}{4587}, -\frac{276}{1529})$ $+\frac{16}{1529}\sqrt{2665e^2} \otimes e_9 + \frac{8}{4587}\sqrt{69618e^4} \otimes e_8$	{123678, 1278, 3479, 4679}
952:39	$0, 0, 0, 0, \frac{16}{2001}\sqrt{671e^{12}}, \frac{8}{2001}\sqrt{2618e^{13}}, \frac{8}{2001}\sqrt{7315e^{14}},$ $\frac{8}{2001}\sqrt{7337e^{25}}, \frac{8}{2001}\sqrt{715e^{36}}$	$(-\frac{476}{2001}, \frac{248}{2001}, \frac{16}{87}, \frac{124}{667}, -\frac{76}{667}, -\frac{36}{667}, -\frac{104}{2001}, \frac{20}{2001}, \frac{260}{2001})$ $+\frac{16}{2001}\sqrt{2651e^2} \otimes e_7 + \frac{8}{2001}\sqrt{9262e^4} \otimes e_8$	{135678, 1578, 3479, 4679}
952:39	$0, 0, 0, 0, \frac{96}{4979}\sqrt{210e^{12}}, \frac{64}{4979}\sqrt{426e^{13}}, \frac{32}{4979}\sqrt{4917e^{14}},$ $\frac{96}{4979}\sqrt{329e^{25}}, \frac{96}{4979}\sqrt{287e^{36}}$	$(-\frac{1136}{4979}, \frac{1344}{4979}, \frac{272}{4979}, \frac{944}{4979}, \frac{16}{383}, -\frac{864}{4979}, -\frac{192}{4979}, \frac{1552}{4979}, -\frac{592}{4979})$ $+\frac{32}{4979}\sqrt{6054e^4} \otimes e_9 + \frac{64}{4979}\sqrt{1797e^2} \otimes e_7$	{123468, 1248, 2359, 2569}
952:40	$0, 0, 0, 0, \frac{2}{831}\sqrt{41145e^{12}}, \frac{2}{277}\sqrt{8651e^{13}}, \frac{2}{277}\sqrt{8018e^{24}}, \frac{6}{277}\sqrt{211e^{15}},$ $\frac{2}{831}\sqrt{58447e^{36}}$	$(\frac{11}{277}, -\frac{7}{277}, \frac{185}{831}, -\frac{72}{277}, \frac{4}{277}, \frac{218}{831}, -\frac{79}{277}, \frac{15}{277}, \frac{403}{831})$ $+\frac{2}{831}\sqrt{148755e^3} \otimes e_7$	{1234589, 1256789, 139, 14679, 23468, 278, 356, 457}
952:40	$0, 0, 0, 0, \frac{4}{47}\sqrt{22e^{12}}, \frac{22}{141}\sqrt{6e^{13}}, \frac{2}{47}\sqrt{374e^{24}}, \frac{2}{141}\sqrt{330e^{15}},$ $\frac{2}{141}\sqrt{3102e^{36}}$	$(\frac{22}{141}, -\frac{13}{141}, -\frac{32}{141}, \frac{30}{47}, \frac{3}{47}, -\frac{10}{141}, \frac{77}{141}, \frac{31}{141}, -\frac{14}{47})$ $+\frac{2}{141}\sqrt{7590e^4} \otimes e_9$	{123579, 125679, 1389, 1689, 2346, 24, 345678, 4578}
952:40	$0, 0, 0, 0, \frac{16}{4683}\sqrt{2706e^{12}}, \frac{352}{4683}\sqrt{14e^{13}}, \frac{16}{4683}\sqrt{16269e^{24}},$ $\frac{16}{4683}\sqrt{8129e^{15}}, \frac{16}{4683}\sqrt{8943e^{36}}$	$(\frac{176}{669}, -\frac{1136}{4683}, -\frac{40}{223}, \frac{320}{1561}, \frac{32}{561}, \frac{56}{669}, -\frac{176}{4683}, \frac{1328}{4683}, -\frac{64}{669})$ $+\frac{352}{4683}\sqrt{51e^1} \otimes e_7 + \frac{80}{4683}\sqrt{814e^4} \otimes e_9$	{1359, 1569, 3467, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:40	$0, 0, 0, 0, \frac{76}{3991}\sqrt{226}e^{12}, \frac{4}{3991}\sqrt{116390}e^{13}, \frac{4}{3991}\sqrt{177523}e^{24}, \frac{4}{3991}\sqrt{29041}e^{15}, \frac{20}{3991}\sqrt{3955}e^{36}$	$(-\frac{10}{307}, -\frac{414}{3991}, \frac{720}{3991}, \frac{230}{3991}, -\frac{544}{3991}, \frac{590}{3991}, -\frac{184}{3991}, -\frac{674}{3991}, \frac{1310}{3991})$ $+\frac{4}{3991}\sqrt{154358}e^4 \otimes e_8 + \frac{4}{3991}\sqrt{247470}e^3 \otimes e_7$	{123459, 1389, 2346, 3568}
952:40	$0, 0, 0, 0, \frac{3}{22}\sqrt{14}e^{12}, \frac{3}{22}\sqrt{14}e^{13}, \frac{3}{22}\sqrt{21}e^{24}, \frac{3}{22}\sqrt{21}e^{15}, \frac{3}{88}\sqrt{77}e^{36}$	$(\frac{4}{11}, -\frac{47}{176}, -\frac{5}{88}, -\frac{15}{176}, \frac{17}{176}, \frac{27}{88}, -\frac{31}{88}, \frac{81}{176}, \frac{1}{4})$ $+\frac{3}{88}\sqrt{1001}e^1 \otimes e_7$	{123489, 124689, 1359, 1569, 235678, 2578, 3467, 47}
952:40	$0, 0, 0, 0, \frac{6}{271}\sqrt{57}e^{12}, \frac{6}{271}\sqrt{57}e^{13}, \frac{36}{271}\sqrt{7}e^{24}, \frac{36}{271}\sqrt{7}e^{15}, \frac{6}{271}\sqrt{30}e^{36}$	$(\frac{38}{271}, -\frac{73}{271}, \frac{1}{271}, \frac{57}{271}, -\frac{35}{271}, \frac{39}{271}, -\frac{16}{271}, \frac{3}{271}, \frac{40}{271})$ $+\frac{18}{271}\sqrt{37}e^4 \otimes e_8 + \frac{6}{271}\sqrt{390}e^1 \otimes e_7$	{235678, 2578, 3467, 47}
952:40	$0, 0, 0, 0, \frac{1}{144}\sqrt{8814}e^{12}, \frac{1}{36}\sqrt{113}e^{13}, \frac{1}{144}\sqrt{7910}e^{24}, \frac{1}{144}\sqrt{2599}e^{15}, \frac{1}{36}\sqrt{678}e^{36}$	$(-\frac{1}{9}, \frac{35}{72}, -\frac{3}{32}, -\frac{17}{288}, \frac{3}{8}, -\frac{59}{288}, \frac{41}{96}, \frac{19}{72}, -\frac{43}{144})$ $+\frac{1}{144}\sqrt{26555}e^2 \otimes e_9$	{123468, 123678, 1248, 1278, 3479, 39, 4679, 69}
952:40	$0, 0, 0, 0, \frac{5}{552}\sqrt{78}e^{12}, \frac{1}{92}\sqrt{455}e^{13}, \frac{1}{184}\sqrt{2730}e^{24}, \frac{5}{184}\sqrt{13}e^{15}, \frac{1}{138}\sqrt{1495}e^{36}$	$(-\frac{5}{92}, \frac{4}{23}, \frac{61}{1104}, -\frac{87}{368}, \frac{11}{92}, \frac{1}{1104}, -\frac{1}{16}, \frac{3}{46}, \frac{31}{552})$ $+\frac{1}{184}\sqrt{3055}e^2 \otimes e_9 + \frac{1}{276}\sqrt{9165}e^3 \otimes e_7$	{139, 14679, 23468, 278}
952:40	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{31}e^{13}, \frac{10}{169}\sqrt{57}e^{24}, \frac{10}{169}\sqrt{17}e^{15}, \frac{60}{169}e^{36}$	$(-\frac{25}{169}, \frac{27}{169}, \frac{41}{169}, -\frac{36}{169}, \frac{2}{169}, \frac{16}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{57}{169})$ $-\frac{10}{169}\sqrt{61}e^2 \otimes e_8 + \frac{10}{169}\sqrt{87}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}
952:40	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{31}e^{13}, \frac{10}{169}\sqrt{57}e^{24}, \frac{10}{169}\sqrt{17}e^{15}, \frac{60}{169}e^{36}$	$(-\frac{25}{169}, \frac{27}{169}, \frac{41}{169}, -\frac{36}{169}, \frac{2}{169}, \frac{16}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{57}{169})$ $+\frac{10}{169}\sqrt{61}e^2 \otimes e_8 + \frac{10}{169}\sqrt{87}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}
952:40	$0, 0, 0, 0, \frac{4}{5067}\sqrt{34510}e^{12}, \frac{4}{5067}\sqrt{137802}e^{13}, \frac{4}{5067}\sqrt{103411}e^{24}, \frac{4}{5067}\sqrt{155057}e^{15}, \frac{4}{1689}\sqrt{12257}e^{36}$	$(\frac{146}{5067}, -\frac{548}{5067}, \frac{232}{1689}, -\frac{86}{1689}, -\frac{134}{1689}, \frac{842}{5067}, -\frac{806}{5067}, -\frac{256}{5067}, \frac{1538}{5067})$ $+\frac{28}{5067}\sqrt{5270}e^3 \otimes e_8 + \frac{4}{1689}\sqrt{30226}e^1 \otimes e_7$	{124689, 1359, 2578, 3467}
952:40	$0, 0, 0, 0, \frac{4}{799}\sqrt{38922}e^{12}, \frac{18}{799}\sqrt{499}e^{13}, \frac{4}{799}\sqrt{6986}e^{24}, \frac{10}{799}\sqrt{1497}e^{15}, \frac{8}{799}\sqrt{1497}e^{36}$	$(-\frac{162}{799}, \frac{543}{799}, \frac{177}{799}, -\frac{455}{799}, \frac{381}{799}, \frac{15}{799}, \frac{88}{799}, \frac{219}{799}, \frac{192}{799})$ $+\frac{2}{799}\sqrt{326845}e^2 \otimes e_4$	{12368, 128, 13456, 145, 23589, 25689, 349, 469}
952:40	$0, 0, 0, 0, \frac{40}{2623}\sqrt{453}e^{12}, \frac{84}{2623}\sqrt{302}e^{13}, \frac{4}{2623}\sqrt{124273}e^{24}, \frac{4}{2623}\sqrt{26727}e^{15}, \frac{4}{2623}\sqrt{109173}e^{36}$	$(-\frac{54}{2623}, \frac{282}{2623}, \frac{564}{2623}, -\frac{926}{2623}, \frac{228}{2623}, \frac{510}{2623}, -\frac{644}{2623}, \frac{174}{2623}, \frac{1074}{2623})$ $+\frac{12}{2623}\sqrt{30502}e^3 \otimes e_7 + \frac{4}{2623}\sqrt{68554}e^2 \otimes e_4$	{1256789, 14679, 278, 457}
952:40	$0, 0, 0, 0, \frac{4}{963}\sqrt{6838}e^{12}, \frac{2}{963}\sqrt{32349}e^{13}, \frac{4}{963}\sqrt{526}e^{24}, \frac{10}{963}\sqrt{1841}e^{15}, \frac{4}{321}\sqrt{1578}e^{36}$	$(-\frac{274}{963}, \frac{331}{963}, \frac{103}{321}, -\frac{65}{321}, \frac{19}{321}, \frac{35}{963}, \frac{136}{963}, -\frac{217}{963}, \frac{344}{963})$ $+\frac{2}{321}\sqrt{9205}e^2 \otimes e_4 + \frac{4}{963}\sqrt{34190}e^3 \otimes e_8$	{126789, 134579, 2578, 3467}
952:40	$0, 0, 0, 0, \frac{40}{5451}\sqrt{222}e^{12}, \frac{240}{5451}e^{13}, \frac{72}{5451}\sqrt{15}e^{24}, \frac{8}{5451}\sqrt{1905}e^{15}, \frac{8}{5451}\sqrt{9085}e^{36}$	$(\frac{116}{1817}, -\frac{200}{1817}, -\frac{68}{5451}, \frac{124}{1817}, -\frac{84}{1817}, \frac{280}{5451}, -\frac{76}{1817}, \frac{32}{1817}, \frac{212}{5451})$ $+\frac{16}{5451}\sqrt{3615}e^3 \otimes e_7 + \frac{8}{5451}\sqrt{10410}e^4 \otimes e_9$	{1256789, 139, 23468, 457}
952:40	$0, 0, 0, 0, \frac{1}{36}\sqrt{113}e^{12}, \frac{1}{144}\sqrt{8814}e^{13}, \frac{1}{144}\sqrt{2599}e^{24}, \frac{1}{144}\sqrt{7910}e^{15}, \frac{1}{36}\sqrt{678}e^{36}$	$(-\frac{79}{288}, \frac{23}{144}, \frac{19}{48}, \frac{5}{48}, -\frac{11}{96}, \frac{35}{288}, \frac{19}{72}, -\frac{7}{18}, \frac{149}{288})$ $+\frac{1}{144}\sqrt{26555}e^3 \otimes e_8$	{123459, 123579, 146789, 1689, 2346, 2367, 4578, 58}
952:40	$0, 0, 0, 0, \frac{64}{1553}\sqrt{47}e^{12}, \frac{64}{1553}\sqrt{26}e^{13}, \frac{32}{1553}\sqrt{455}e^{24}, \frac{32}{1553}\sqrt{309}e^{15}, \frac{32}{1553}\sqrt{305}e^{36}$	$(-\frac{208}{1553}, \frac{272}{1553}, -\frac{16}{1553}, \frac{368}{1553}, \frac{64}{1553}, -\frac{224}{1553}, \frac{640}{1553}, -\frac{144}{1553}, -\frac{240}{1553})$ $+\frac{32}{1553}\sqrt{638}e^4 \otimes e_8 + \frac{32}{1553}\sqrt{730}e^2 \otimes e_9$	{123678, 1278, 3479, 4679}
952:40	$0, 0, 0, 0, \frac{2}{167}\sqrt{553}e^{12}, \frac{2}{167}\sqrt{553}e^{13}, \frac{2}{167}\sqrt{4582}e^{24}, \frac{2}{167}\sqrt{4582}e^{15}, \frac{2}{167}\sqrt{790}e^{36}$	$(-\frac{14}{167}, -\frac{21}{167}, \frac{27}{167}, \frac{109}{167}, -\frac{35}{167}, \frac{13}{167}, \frac{88}{167}, -\frac{49}{167}, \frac{40}{167})$ $+\frac{2}{167}\sqrt{10823}e^4 \otimes e_8$	{123456, 1245, 1368, 18, 2349, 2469, 3589, 5689}
952:40	$0, 0, 0, 0, \frac{4}{645}\sqrt{1518}e^{12}, \frac{4}{645}\sqrt{1518}e^{13}, \frac{4}{215}\sqrt{253}e^{24}, \frac{4}{215}\sqrt{253}e^{15}, \frac{4}{645}\sqrt{4945}e^{36}$	$(-\frac{10}{43}, \frac{66}{215}, \frac{82}{645}, -\frac{6}{215}, \frac{16}{215}, -\frac{68}{645}, \frac{12}{43}, -\frac{34}{215}, \frac{14}{645})$ $+\frac{4}{645}\sqrt{6486}e^2 \otimes e_9 + \frac{4}{645}\sqrt{6486}e^3 \otimes e_8$	{134579, 1359, 2458, 2578}
952:40	$0, 0, 0, 0, \frac{4}{5067}\sqrt{137802}e^{12}, \frac{4}{5067}\sqrt{34510}e^{13}, \frac{4}{5067}\sqrt{155057}e^{24}, \frac{4}{5067}\sqrt{103411}e^{15}, \frac{4}{1689}\sqrt{12257}e^{36}$	$(\frac{580}{5067}, \frac{320}{5067}, -\frac{202}{1689}, -\frac{692}{5067}, \frac{100}{563}, -\frac{26}{5067}, -\frac{124}{1689}, \frac{1480}{5067}, -\frac{632}{5067})$ $+\frac{28}{5067}\sqrt{5270}e^2 \otimes e_9 + \frac{4}{1689}\sqrt{30226}e^1 \otimes e_7$	{1359, 1569, 235678, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:40	$0, 0, 0, 0, \frac{4}{1163}\sqrt{18642}e^{12}, \frac{10}{1163}\sqrt{717}e^{13}, \frac{4}{1163}\sqrt{9082}e^{24}, \frac{2}{1163}\sqrt{55209}e^{15}, \frac{8}{1163}\sqrt{717}e^{36}$	$(\frac{150}{1163}, \frac{75}{1163}, \frac{21}{1163}, -\frac{403}{1163}, \frac{225}{1163}, \frac{171}{1163}, -\frac{328}{1163}, \frac{375}{1163}, \frac{192}{1163}) + \frac{2}{1163}\sqrt{94405}e^2 \otimes e_4 + \frac{8}{1163}\sqrt{9321}e^1 \otimes e_7$	{235678, 2578, 3467, 47}
952:40	$0, 0, 0, 0, \frac{8}{111}\sqrt{10}e^{12}, \frac{16}{111}\sqrt{5}e^{13}, \frac{8}{111}\sqrt{23}e^{24}, \frac{8}{111}\sqrt{15}e^{15}, \frac{8}{111}\sqrt{37}e^{36}$	$(-\frac{4}{37}, 0, \frac{8}{111}, \frac{12}{37}, -\frac{4}{37}, -\frac{4}{111}, \frac{12}{37}, -\frac{8}{37}, \frac{4}{111}) + \frac{16}{111}\sqrt{13}e^3 \otimes e_8 + \frac{8}{111}\sqrt{46}e^4 \otimes e_9$	{123579, 1689, 2346, 4578}
952:41	$0, 0, 0, 0, \frac{1}{551}\sqrt{58178}e^{12}, \frac{1}{551}\sqrt{52054}e^{13}, \frac{12}{551}\sqrt{1531}e^{24}, \frac{4}{1653}\sqrt{22965}e^{25}, \frac{1}{1653}\sqrt{1687162}e^{36}$	$(\frac{102}{551}, -\frac{23}{551}, -\frac{416}{1653}, \frac{335}{551}, \frac{79}{551}, -\frac{110}{1653}, \frac{312}{551}, \frac{56}{551}, -\frac{526}{1653}) + \frac{1}{1653}\sqrt{4179630}e^4 \otimes e_9$	{1235789, 1256789, 1389, 1689, 2346, 24, 34567, 457}
952:41	$0, 0, 0, 0, \frac{4}{93}\sqrt{26}e^{12}, \frac{2}{93}\sqrt{286}e^{13}, \frac{26}{93}e^{24}, \frac{2}{93}\sqrt{195}e^{25}, \frac{2}{93}\sqrt{403}e^{36}$	$(-\frac{1}{31}, -\frac{3}{31}, \frac{5}{93}, \frac{11}{31}, -\frac{4}{31}, \frac{2}{93}, \frac{8}{31}, -\frac{7}{31}, \frac{7}{93}) + \frac{2}{93}\sqrt{455}e^4 \otimes e_9 + \frac{2}{93}\sqrt{611}e^3 \otimes e_8$	{123579, 139, 248, 4578}
952:41	$0, 0, 0, 0, \frac{3}{23}\sqrt{6}e^{12}, \frac{2}{23}\sqrt{5}e^{13}, \frac{4}{23}\sqrt{3}e^{24}, \frac{4}{23}\sqrt{2}e^{25}, \frac{4}{23}\sqrt{3}e^{36}$	$(\frac{4}{23}, \frac{1}{23}, -\frac{4}{23}, -\frac{2}{23}, \frac{5}{23}, 0, -\frac{1}{23}, \frac{6}{23}, -\frac{4}{23}) + \frac{1}{23}\sqrt{86}e^1 \otimes e_7 + \frac{2}{23}\sqrt{29}e^2 \otimes e_9$	{13589, 15689, 23567, 257}
952:41	$0, 0, 0, 0, \frac{2}{831}\sqrt{41145}e^{12}, \frac{2}{831}\sqrt{8018}e^{13}, \frac{2}{277}\sqrt{8651}e^{24}, \frac{6}{277}\sqrt{211}e^{25}, \frac{2}{831}\sqrt{58447}e^{36}$	$(-\frac{7}{277}, \frac{11}{277}, \frac{212}{831}, -\frac{81}{277}, \frac{4}{277}, \frac{191}{831}, -\frac{70}{277}, \frac{15}{277}, \frac{403}{831}) + \frac{2}{831}\sqrt{148755}e^3 \otimes e_7$	{1234589, 1256789, 1389, 146789, 2346, 27, 356, 457}
952:41	$0, 0, 0, 0, \frac{3}{397}\sqrt{1518}e^{12}, \frac{12}{397}\sqrt{77}e^{13}, \frac{3}{397}\sqrt{1298}e^{24}, \frac{12}{397}\sqrt{209}e^{25}, \frac{3}{397}\sqrt{1738}e^{36}$	$(-\frac{81}{397}, \frac{42}{397}, \frac{102}{397}, -\frac{57}{397}, -\frac{39}{397}, \frac{21}{397}, -\frac{15}{397}, \frac{3}{397}, \frac{123}{397}) + \frac{24}{397}\sqrt{55}e^2 \otimes e_4 + \frac{3}{397}\sqrt{4246}e^3 \otimes e_8$	{12689, 145689, 2356, 346}
952:41	$0, 0, 0, 0, \frac{6}{4441}\sqrt{49495}e^{12}, \frac{4}{4441}\sqrt{168283}e^{13}, \frac{2}{4441}\sqrt{911229}e^{24}, \frac{14}{4441}\sqrt{521}e^{25}, \frac{2}{4441}\sqrt{524647}e^{36}$	$(\frac{39}{4441}, -\frac{467}{4441}, \frac{722}{4441}, \frac{147}{4441}, -\frac{428}{4441}, \frac{761}{4441}, -\frac{320}{4441}, -\frac{895}{4441}, \frac{1483}{4441}) + \frac{2}{4441}\sqrt{1325945}e^3 \otimes e_7 + \frac{4}{4441}\sqrt{184955}e^4 \otimes e_8$	{123459, 14679, 278, 3568}
952:41	$0, 0, 0, 0, \frac{28}{4849}\sqrt{85}e^{12}, \frac{28}{4849}\sqrt{3791}e^{13}, \frac{56}{4849}\sqrt{1853}e^{24}, \frac{14}{4849}\sqrt{6851}e^{25}, \frac{112}{4849}\sqrt{238}e^{36}$	$(\frac{1784}{4849}, \frac{826}{4849}, \frac{1253}{4849}, \frac{944}{4849}, \frac{958}{4849}, \frac{531}{4849}, \frac{118}{4849}, \frac{132}{4849}, -\frac{722}{4849}) + \frac{14}{4849}\sqrt{36601}e^4 \otimes e_9 + \frac{14}{4849}\sqrt{36737}e^1 \otimes e_7$	{1359, 1569, 34678, 478}
952:41	$0, 0, 0, 0, \frac{44}{821}\sqrt{5}e^{12}, \frac{22}{821}\sqrt{267}e^{13}, \frac{198}{821}e^{24}, \frac{22}{821}\sqrt{145}e^{25}, \frac{44}{821}\sqrt{43}e^{36}$	$(\frac{121}{821}, -\frac{143}{821}, \frac{77}{821}, \frac{22}{821}, -\frac{22}{821}, \frac{198}{821}, -\frac{121}{821}, -\frac{165}{821}, \frac{275}{821}) + \frac{22}{821}\sqrt{305}e^1 \otimes e_7 + \frac{22}{821}\sqrt{413}e^3 \otimes e_8$	{124689, 15689, 23567, 3467}
952:41	$0, 0, 0, 0, \frac{6}{1673}\sqrt{9255}e^{12}, \frac{4}{1673}\sqrt{31467}e^{13}, \frac{2}{1673}\sqrt{418326}e^{24}, \frac{1}{1673}\sqrt{1506714}e^{25}, \frac{2}{1673}\sqrt{98103}e^{36}$	$(\frac{272}{1673}, -\frac{451}{1673}, \frac{76}{1673}, \frac{1221}{1673}, -\frac{179}{1673}, \frac{348}{1673}, \frac{110}{239}, -\frac{90}{239}, \frac{424}{1673}) + \frac{1}{1673}\sqrt{5016210}e^4 \otimes e_8$	{123459, 124569, 13479, 14679, 23678, 278, 3568, 58}
952:41	$0, 0, 0, 0, \frac{42}{1639}\sqrt{51}e^{12}, \frac{2}{1639}\sqrt{108885}e^{13}, \frac{4}{149}\sqrt{357}e^{24}, \frac{4}{1639}\sqrt{11067}e^{25}, \frac{2}{1639}\sqrt{23205}e^{36}$	$(\frac{610}{1639}, -\frac{476}{1639}, \frac{175}{1639}, \frac{372}{1639}, \frac{134}{1639}, \frac{435}{1639}, -\frac{104}{1639}, -\frac{342}{1639}, \frac{260}{1639}) + \frac{18}{1639}\sqrt{3451}e^1 \otimes e_7 + \frac{2}{1639}\sqrt{235977}e^4 \otimes e_8$	{13589, 15689, 3467, 47}
952:41	$0, 0, 0, 0, \frac{1}{69}\sqrt{258}e^{12}, \frac{4}{69}\sqrt{129}e^{13}, \frac{1}{69}\sqrt{258}e^{24}, \frac{4}{69}\sqrt{129}e^{25}, \frac{1}{69}\sqrt{1978}e^{36}$	$(-\frac{3}{23}, -\frac{2}{23}, \frac{22}{69}, \frac{5}{23}, -\frac{5}{23}, \frac{13}{69}, \frac{3}{23}, -\frac{7}{23}, \frac{35}{69}) + \frac{1}{69}\sqrt{4902}e^3 \otimes e_8$	{1234579, 12359, 1349, 1379, 2478, 28, 458, 578}
952:41	$0, 0, 0, 0, \frac{16}{219}\sqrt{66}e^{12}, \frac{16}{73}e^{13}, \frac{16}{219}\sqrt{30}e^{24}, \frac{16}{73}\sqrt{7}e^{25}, \frac{16}{219}\sqrt{73}e^{36}$	$(-\frac{6}{73}, \frac{20}{73}, -\frac{25}{219}, \frac{3}{73}, \frac{14}{73}, -\frac{43}{219}, \frac{23}{73}, \frac{34}{73}, -\frac{68}{219}) + \frac{32}{73}\sqrt{5}e^2 \otimes e_9$	{123468, 123678, 1248, 1278, 3479, 39, 4679, 69}
952:41	$0, 0, 0, 0, \frac{1}{1831}\sqrt{891330}e^{12}, \frac{1}{1831}\sqrt{226446}e^{13}, \frac{5}{1831}\sqrt{1606}e^{24}, \frac{2}{1831}\sqrt{139722}e^{25}, \frac{12}{1831}\sqrt{803}e^{36}$	$(\frac{282}{1831}, \frac{141}{1831}, \frac{3}{1831}, -\frac{662}{1831}, \frac{423}{1831}, \frac{285}{1831}, -\frac{521}{1831}, \frac{564}{1831}, \frac{288}{1831}) + \frac{1}{1831}\sqrt{1369918}e^2 \otimes e_4 + \frac{2}{1831}\sqrt{305943}e^1 \otimes e_7$	{23567, 257, 3467, 47}
952:41	$0, 0, 0, 0, \frac{2}{1819}\sqrt{1677}e^{12}, \frac{2}{1819}\sqrt{2158}e^{13}, \frac{2}{5457}\sqrt{31551}e^{24}, \frac{26}{5457}\sqrt{51}e^{25}, \frac{2}{5457}\sqrt{23647}e^{36}$	$(\frac{35}{1819}, -\frac{55}{1819}, \frac{8}{5457}, \frac{49}{1819}, -\frac{20}{1819}, \frac{113}{5457}, -\frac{6}{1819}, -\frac{75}{1819}, \frac{121}{5457}) + \frac{4}{5457}\sqrt{6942}e^4 \otimes e_9 + \frac{62}{5457}\sqrt{39}e^3 \otimes e_7$	{1256789, 1389, 2346, 457}
952:41	$0, 0, 0, 0, \frac{2}{1273}\sqrt{30098}e^{12}, \frac{1}{1273}\sqrt{10430}e^{13}, \frac{1}{1273}\sqrt{144530}e^{24}, \frac{1}{1273}\sqrt{204726}e^{25}, \frac{2}{1273}\sqrt{41273}e^{36}$	$(-\frac{35}{1273}, \frac{43}{1273}, -\frac{110}{1273}, \frac{349}{1273}, \frac{8}{1273}, -\frac{145}{1273}, \frac{392}{1273}, \frac{51}{1273}, -\frac{255}{1273}) + \frac{1}{1273}\sqrt{406174}e^2 \otimes e_9 + \frac{2}{1273}\sqrt{65858}e^4 \otimes e_8$	{123678, 1278, 3479, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:41	$0, 0, 0, 0, \frac{2}{237}\sqrt{39}e^{12}, \frac{2}{79}\sqrt{65}e^{13}, \frac{4}{79}\sqrt{26}e^{24}, \frac{2}{79}\sqrt{26}e^{25}, \frac{2}{237}\sqrt{1027}e^{36}$	$(-\frac{7}{79}, \frac{11}{79}, \frac{14}{237}, -\frac{15}{79}, \frac{4}{79}, -\frac{7}{237}, -\frac{4}{79}, \frac{15}{79}, \frac{7}{237})$ $+\frac{2}{237}\sqrt{1443}e^3 \otimes e_7 + \frac{2}{79}\sqrt{143}e^2 \otimes e_9$	{13589, 1456789, 23456, 257}
952:41	$0, 0, 0, 0, \frac{9}{1697}\sqrt{8854}e^{12}, \frac{36}{1697}\sqrt{1159}e^{13}, \frac{18}{1697}\sqrt{4845}e^{24}, \frac{18}{1697}\sqrt{627}e^{25}, \frac{36}{1697}\sqrt{247}e^{36}$	$(\frac{976}{1697}, -\frac{365}{1697}, -\frac{280}{1697}, -\frac{198}{1697}, \frac{611}{1697}, \frac{696}{1697}, -\frac{563}{1697}, \frac{246}{1697}, \frac{416}{1697})$ $+\frac{9}{1697}\sqrt{52630}e^1 \otimes e_7$	{12349, 12469, 1359, 1569, 235678, 2578, 34678, 478}
952:41	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{57}e^{13}, \frac{10}{169}\sqrt{31}e^{24}, \frac{10}{169}\sqrt{17}e^{25}, \frac{60}{169}e^{36}$	$(\frac{27}{169}, -\frac{25}{169}, \frac{15}{169}, -\frac{10}{169}, \frac{2}{169}, \frac{42}{169}, \frac{35}{169}, -\frac{23}{169}, \frac{57}{169})$ $+\frac{10}{169}\sqrt{61}e^1 \otimes e_8 + \frac{10}{169}\sqrt{87}e^3 \otimes e_7$	{123459, 125679, 139, 14679, 23468, 278, 3568, 4578}
952:41	$0, 0, 0, 0, \frac{10}{169}\sqrt{2}e^{12}, \frac{10}{169}\sqrt{57}e^{13}, \frac{10}{169}\sqrt{31}e^{24}, \frac{10}{169}\sqrt{17}e^{25}, \frac{60}{169}e^{36}$	$(\frac{27}{169}, -\frac{25}{169}, \frac{15}{169}, -\frac{10}{169}, \frac{2}{169}, \frac{42}{169}, -\frac{35}{169}, -\frac{23}{169}, \frac{57}{169})$ $-\frac{10}{169}\sqrt{61}e^1 \otimes e_8 + \frac{10}{169}\sqrt{87}e^3 \otimes e_7$	{123459, 125679, 139, 14679, 23468, 278, 3568, 4578}
952:41	$0, 0, 0, 0, \frac{1}{39}\sqrt{30}e^{12}, \frac{1}{39}\sqrt{33}e^{13}, \frac{1}{13}e^{24}, \frac{5}{39}\sqrt{3}e^{25}, \frac{1}{39}\sqrt{78}e^{36}$	$(-\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, 0, 0)$ $+\frac{1}{39}\sqrt{102}e^3 \otimes e_8 + \frac{1}{39}\sqrt{105}e^2 \otimes e_9$	{1456789, 15689, 23456, 23567}
952:41	$0, 0, 0, 0, \frac{30}{1381}\sqrt{143}e^{12}, \frac{60}{1381}\sqrt{143}e^{13}, \frac{10}{1381}\sqrt{5005}e^{24}, \frac{10}{1381}\sqrt{429}e^{25}, \frac{110}{1381}\sqrt{39}e^{36}$	$(-\frac{105}{1381}, \frac{165}{1381}, \frac{330}{1381}, -\frac{485}{1381}, \frac{60}{1381}, \frac{225}{1381}, -\frac{320}{1381}, \frac{225}{1381}, \frac{555}{1381})$ $+\frac{130}{1381}\sqrt{69}e^3 \otimes e_7 + \frac{20}{1381}\sqrt{949}e^2 \otimes e_4$	{125679, 14679, 278, 4578}
952:41	$0, 0, 0, 0, \frac{3}{1607}\sqrt{211562}e^{12}, \frac{3}{1607}\sqrt{45526}e^{13}, \frac{1}{1607}\sqrt{998894}e^{24}, \frac{2}{1607}\sqrt{441870}e^{25}, \frac{2}{1607}\sqrt{56238}e^{36}$	$(-\frac{306}{1607}, \frac{609}{1607}, \frac{321}{1607}, -\frac{730}{1607}, \frac{303}{1607}, \frac{15}{1607}, -\frac{121}{1607}, \frac{912}{1607}, \frac{336}{1607})$ $+\frac{1}{1607}\sqrt{3628690}e^2 \otimes e_4$	{12368, 128, 134568, 1458, 2359, 2569, 349, 469}
952:42	$0, 0, 0, 0, \frac{8}{49}\sqrt{13}e^{12}, \frac{8}{49}\sqrt{13}e^{13}, \frac{8}{49}\sqrt{14}e^{14} + \frac{4}{49}\sqrt{6}e^{23}, \frac{20}{49}\sqrt{2}e^{15}, \frac{20}{49}\sqrt{2}e^{16}$	$(\frac{12}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{20}{49}, \frac{8}{49}, \frac{8}{49}, -\frac{8}{49}, \frac{20}{49}, \frac{20}{49})$ $+\frac{4}{49}\sqrt{166}e^1 \otimes e_4$	{1268, 2458}
952:42	$0, 0, 0, 0, \frac{6}{89}\sqrt{37}e^{12}, \frac{6}{89}\sqrt{89}e^{13}, \frac{6}{89}\sqrt{146}e^{14} + \frac{18}{89}e^{23}, \frac{24}{89}\sqrt{10}e^{15}, \frac{12}{89}\sqrt{23}e^{16}$	$(-\frac{19}{89}, \frac{39}{445}, \frac{33}{89}, \frac{299}{445}, -\frac{56}{445}, \frac{14}{204}, \frac{204}{445}, -\frac{151}{445}, -\frac{5}{89})$ $+\frac{18}{89}\sqrt{42}e^4 \otimes e_8$	{1236789, 134569, 2568, 467}
952:42	$0, 0, 0, 0, \frac{46}{937}\sqrt{73}e^{12}, \frac{23}{937}\sqrt{259}e^{13}, \frac{23}{937}\sqrt{11}e^{14} + \frac{46}{937}\sqrt{97}e^{23}, \frac{23}{937}\sqrt{329}e^{15}, \frac{184}{937}\sqrt{3}e^{16}$	$(-\frac{161}{937}, \frac{253}{937}, \frac{46}{937}, \frac{460}{937}, \frac{92}{937}, -\frac{115}{937}, \frac{299}{937}, -\frac{69}{937}, -\frac{276}{937})$ $+\frac{23}{937}\sqrt{965}e^2 \otimes e_9 + \frac{92}{937}\sqrt{43}e^4 \otimes e_8$	{12368, 469}
952:42	$0, 0, 0, 0, \frac{5}{91}\sqrt{11}e^{12}, \frac{5}{91}\sqrt{11}e^{13}, \frac{5}{91}\sqrt{47}e^{14} + \frac{5}{91}\sqrt{69}e^{23}, \frac{5}{91}\sqrt{34}e^{15}, \frac{5}{91}\sqrt{34}e^{16}$	$(-\frac{25}{182}, \frac{10}{91}, \frac{10}{91}, \frac{5}{14}, -\frac{5}{182}, -\frac{5}{182}, \frac{20}{91}, -\frac{15}{91}, -\frac{15}{91})$ $+\frac{5}{91}\sqrt{82}e^2 \otimes e_9 + \frac{5}{91}\sqrt{82}e^3 \otimes e_8$	{124678, 2578}
952:42	$0, 0, 0, 0, \frac{5}{91}\sqrt{11}e^{12}, \frac{5}{91}\sqrt{11}e^{13}, \frac{5}{91}\sqrt{47}e^{14} + \frac{5}{91}\sqrt{69}e^{23}, \frac{5}{91}\sqrt{34}e^{15}, \frac{5}{91}\sqrt{34}e^{16}$	$(-\frac{25}{182}, \frac{10}{91}, \frac{10}{91}, \frac{5}{14}, -\frac{5}{182}, -\frac{5}{182}, \frac{20}{91}, -\frac{15}{91}, -\frac{15}{91})$ $+\frac{5}{91}\sqrt{82}e^2 \otimes e_9 - \frac{5}{91}\sqrt{82}e^3 \otimes e_8$	{124678, 2578}
952:42	$0, 0, 0, 0, \frac{3}{73}\sqrt{190}e^{12}, \frac{1}{73}\sqrt{627}e^{13}, \frac{1}{73}\sqrt{1995}e^{14} + \frac{9}{73}\sqrt{38}e^{23}, \frac{1}{73}\sqrt{399}e^{15}, \frac{12}{73}\sqrt{19}e^{16}$	$(-\frac{8}{73}, \frac{31}{73}, -\frac{10}{73}, \frac{29}{73}, \frac{23}{73}, -\frac{18}{73}, \frac{21}{73}, \frac{15}{73}, -\frac{26}{73})$ $+\frac{3}{73}\sqrt{779}e^2 \otimes e_9$	{12368, 159, 23458, 469}
952:43	$0, 0, 0, 0, \frac{29}{1645}\sqrt{487}e^{12}, \frac{29}{1645}\sqrt{670}e^{13}, \frac{29}{1645}\sqrt{133}e^{14} + \frac{29}{1645}\sqrt{394}e^{23}, \frac{58}{1645}\sqrt{138}e^{25}, \frac{29}{1645}\sqrt{665}e^{16}$	$(-\frac{58}{329}, -\frac{29}{1645}, \frac{493}{1645}, \frac{754}{1645}, -\frac{319}{1645}, \frac{29}{235}, \frac{464}{1645}, -\frac{348}{1645}, -\frac{87}{1645})$ $+\frac{29}{1645}\sqrt{1649}e^3 \otimes e_8 + \frac{58}{1645}\sqrt{310}e^4 \otimes e_9$	{1379, 2478}
952:43	$0, 0, 0, 0, \frac{2}{2817}\sqrt{81489}e^{12}, \frac{2}{2817}\sqrt{98023}e^{13}, \frac{2}{2817}\sqrt{1495146}e^{14} + \frac{2}{2817}\sqrt{783003}e^{23}, \frac{4}{2817}\sqrt{342490}e^{25}, \frac{8}{2817}\sqrt{22439}e^{16}$	$(-\frac{175}{939}, -\frac{143}{2817}, \frac{1169}{2817}, \frac{517}{939}, -\frac{668}{2817}, \frac{644}{2817}, \frac{114}{313}, -\frac{811}{2817}, \frac{119}{2817})$ $+\frac{2}{939}\sqrt{314146}e^4 \otimes e_8$	{1236789, 1578, 234579, 467}
952:43	$0, 0, 0, 0, \frac{51}{185}\sqrt{3}e^{12}, \frac{3}{185}\sqrt{2210}e^{13}, \frac{51}{185}\sqrt{3}e^{14} + \frac{3}{185}\sqrt{1394}e^{23}, \frac{12}{185}\sqrt{102}e^{25}, \frac{3}{185}\sqrt{935}e^{16}$	$(-\frac{2}{37}, -\frac{32}{185}, \frac{79}{185}, \frac{57}{185}, -\frac{42}{185}, \frac{69}{185}, \frac{47}{185}, -\frac{2}{5}, \frac{59}{185})$ $+\frac{3}{185}\sqrt{5219}e^3 \otimes e_8$	{12359, 13479, 278, 458}
952:43	$0, 0, 0, 0, \frac{23}{1905}\sqrt{13}e^{12}, \frac{23}{1905}\sqrt{1410}e^{13}, \frac{23}{1905}\sqrt{763}e^{14} + \frac{23}{1905}\sqrt{226}e^{23}, \frac{46}{1905}\sqrt{38}e^{25}, \frac{23}{1905}\sqrt{935}e^{16}$	$(\frac{46}{381}, -\frac{92}{635}, \frac{69}{635}, -\frac{299}{1905}, -\frac{46}{1905}, \frac{437}{1905}, -\frac{23}{635}, -\frac{322}{1905}, \frac{667}{1905})$ $+\frac{23}{1905}\sqrt{1651}e^3 \otimes e_8 + \frac{46}{1905}\sqrt{110}e^1 \otimes e_4$	{1568, 234569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:43	$0, 0, 0, 0, \frac{2}{2969}\sqrt{603651}e^{12}, \frac{2}{2969}\sqrt{105429}e^{13},$ $\frac{60}{2969}\sqrt{622}e^{14} + \frac{2}{2969}\sqrt{715611}e^{23}, \frac{2}{2969}\sqrt{684822}e^{25}, \frac{2}{2969}\sqrt{908742}e^{16}$	$(-\frac{433}{2969}, \frac{821}{2969}, -\frac{179}{2969}, \frac{1075}{2969}, \frac{388}{2969}, -\frac{612}{2969}, \frac{642}{2969}, \frac{1209}{2969}, -\frac{1045}{2969})$ $+ \frac{2}{2969}\sqrt{2326902}e^2 \otimes e_9$	{12368, 1589, 2345, 469}
952:43	$0, 0, 0, 0, \frac{19}{1993}\sqrt{205}e^{12}, \frac{19}{1993}\sqrt{530}e^{13},$ $\frac{19}{1993}\sqrt{771}e^{14} + \frac{19}{1993}\sqrt{1010}e^{23}, \frac{76}{1993}\sqrt{62}e^{25}, \frac{95}{1993}\sqrt{39}e^{16}$	$(-\frac{266}{1993}, \frac{76}{1993}, \frac{247}{1993}, \frac{589}{1993}, -\frac{190}{1993}, -\frac{19}{1993}, \frac{323}{1993}, -\frac{114}{1993}, -\frac{285}{1993})$ $+ \frac{19}{1993}\sqrt{1627}e^3 \otimes e_8 + \frac{76}{1993}\sqrt{122}e^2 \otimes e_9$	{124678, 3679}
952:43	$0, 0, 0, 0, \frac{6}{2921}\sqrt{72865}e^{12}, \frac{2}{2921}\sqrt{1211801}e^{13},$ $\frac{16}{2921}\sqrt{11210}e^{14} + \frac{2}{2921}\sqrt{299307}e^{23}, \frac{2}{2921}\sqrt{275766}e^{25}, \frac{8}{2921}\sqrt{69502}e^{16}$	$(\frac{903}{2921}, -\frac{93}{2921}, -\frac{343}{2921}, -\frac{1339}{2921}, \frac{810}{2921}, \frac{560}{2921}, -\frac{436}{2921}, \frac{717}{2921}, \frac{1463}{2921})$ $+ \frac{70}{2921}\sqrt{2242}e^1 \otimes e_4$	{1268, 13589, 245, 3469}
952:43	$0, 0, 0, 0, \frac{2}{2889}\sqrt{64165}e^{12}, \frac{2}{2889}\sqrt{57905}e^{13},$ $\frac{2}{2889}\sqrt{1286430}e^{14} + \frac{2}{2889}\sqrt{89205}e^{23}, \frac{4}{2889}\sqrt{73555}e^{25}, \frac{4}{2889}\sqrt{317695}e^{16}$	$(-\frac{265}{963}, \frac{745}{2889}, \frac{527}{2889}, \frac{689}{963}, -\frac{50}{2889}, -\frac{268}{2889}, \frac{424}{963}, \frac{695}{2889}, -\frac{1063}{2889})$ $+ \frac{2}{2889}\sqrt{3727830}e^4 \otimes e_9$	{123579, 12456, 35689, 4578}
952:44	$0, 0, 0, 0, \frac{48}{497}\sqrt{2}e^{12}, \frac{48}{497}\sqrt{2}e^{13}, \frac{8}{497}\sqrt{39}e^{14} + \frac{8}{497}\sqrt{26}e^{23},$ $\frac{8}{497}\sqrt{157}e^{25}, \frac{8}{497}\sqrt{157}e^{36}$	$(-\frac{52}{497}, \frac{20}{497}, \frac{20}{497}, \frac{92}{497}, -\frac{32}{497}, -\frac{32}{497}, \frac{40}{497}, -\frac{12}{497}, -\frac{12}{497})$ $+ \frac{8}{497}\sqrt{222}e^2 \otimes e_9 + \frac{8}{497}\sqrt{222}e^3 \otimes e_8$	{15689, 23456}
952:44	$0, 0, 0, 0, \frac{44}{3593}\sqrt{714}e^{12}, \frac{88}{3593}\sqrt{39}e^{13},$ $\frac{44}{3593}\sqrt{555}e^{14} + \frac{44}{3593}\sqrt{370}e^{23}, \frac{44}{3593}\sqrt{1321}e^{25}, \frac{484}{3593}\sqrt{7}e^{36}$	$(-\frac{682}{3593}, \frac{506}{3593}, \frac{110}{3593}, \frac{1298}{3593}, -\frac{176}{3593}, -\frac{572}{3593}, \frac{616}{3593}, \frac{330}{3593}, -\frac{462}{3593})$ $+ \frac{132}{3593}\sqrt{158}e^4 \otimes e_8 + \frac{88}{3593}\sqrt{435}e^2 \otimes e_9$	{123678, 4679}
952:44	$0, 0, 0, 0, \frac{2}{67}\sqrt{498}e^{12}, \frac{1}{134}\sqrt{1245}e^{13}, \frac{1}{134}\sqrt{1245}e^{14} + \frac{1}{134}\sqrt{830}e^{23},$ $\frac{1}{134}\sqrt{7138}e^{25}, \frac{1}{134}\sqrt{7138}e^{36}$	$(-\frac{5}{67}, \frac{19}{67}, -\frac{35}{268}, \frac{61}{268}, \frac{14}{67}, -\frac{55}{268}, \frac{41}{268}, \frac{33}{67}, -\frac{45}{134})$ $+ \frac{1}{134}\sqrt{18426}e^2 \otimes e_9$	{12368, 12478, 379, 469}
952:44	$0, 0, 0, 0, \frac{16}{129}\sqrt{42}e^{12}, \frac{16}{129}\sqrt{42}e^{13}, \frac{16}{129}\sqrt{11}e^{14} + \frac{32}{129}\sqrt{7}e^{23},$ $\frac{16}{129}\sqrt{17}e^{25}, \frac{16}{129}\sqrt{17}e^{36}$	$(\frac{56}{129}, -\frac{8}{129}, -\frac{8}{129}, -\frac{24}{43}, \frac{16}{43}, \frac{16}{43}, -\frac{16}{129}, \frac{40}{129}, \frac{40}{129})$ $+ \frac{16}{129}\sqrt{106}e^1 \otimes e_4$	{12689, 245}
952:44	$0, 0, 0, 0, \frac{2}{391}\sqrt{474}e^{12}, \frac{2}{391}\sqrt{474}e^{13}, \frac{2}{391}\sqrt{26070}e^{14} + \frac{4}{391}\sqrt{4345}e^{23},$ $\frac{2}{391}\sqrt{26386}e^{25}, \frac{2}{391}\sqrt{9322}e^{36}$	$(-\frac{104}{391}, \frac{7}{391}, \frac{5}{17}, \frac{226}{391}, -\frac{97}{391}, \frac{11}{391}, \frac{122}{391}, -\frac{90}{391}, \frac{126}{391})$ $+ \frac{36}{391}\sqrt{158}e^4 \otimes e_8$	{123789, 156789, 234567, 47}
952:44	$0, 0, 0, 0, \frac{16}{1355}\sqrt{1434}e^{12}, \frac{48}{1355}\sqrt{42}e^{13}, \frac{176}{1355}\sqrt{3}e^{14} + \frac{96}{1355}\sqrt{7}e^{23},$ $\frac{48}{1355}\sqrt{105}e^{25}, \frac{48}{1355}\sqrt{105}e^{36}$	$(\frac{168}{1355}, \frac{152}{1355}, -\frac{40}{271}, -\frac{216}{1355}, \frac{64}{271}, -\frac{32}{1355}, -\frac{48}{1355}, \frac{472}{1355}, -\frac{232}{1355})$ $+ \frac{128}{1355}\sqrt{33}e^2 \otimes e_9 + \frac{16}{1355}\sqrt{1482}e^1 \otimes e_4$	{13589, 245}
952:45	$0, 0, 0, 0, \frac{5}{763}\sqrt{2086}e^{12}, \frac{5}{763}\sqrt{2562}e^{13}, \frac{5}{763}\sqrt{2534}e^{14}, \frac{5}{763}\sqrt{3962}e^{15},$ $\frac{10}{109}\sqrt{6}e^{16} + \frac{5}{763}\sqrt{770}e^{24}$	$(\frac{10}{109}, -\frac{20}{109}, -\frac{15}{109}, \frac{25}{109}, -\frac{10}{109}, -\frac{5}{109}, \frac{35}{109}, 0, \frac{5}{109})$ $+ \frac{40}{763}\sqrt{77}e^1 \otimes e_3 + \frac{5}{763}\sqrt{4858}e^4 \otimes e_8$	{23589, 3479}
952:45	$0, 0, 0, 0, \frac{6}{2273}\sqrt{80569}e^{12}, \frac{120}{2273}\sqrt{113}e^{13}, \frac{24}{2273}\sqrt{4181}e^{14},$ $\frac{66}{2273}\sqrt{226}e^{15}, \frac{6}{2273}\sqrt{64523}e^{16} + \frac{18}{2273}\sqrt{6441}e^{24}$	$(-\frac{229}{2273}, \frac{1047}{2273}, \frac{747}{2273}, -\frac{758}{2273}, \frac{818}{2273}, \frac{518}{2273}, -\frac{987}{2273}, \frac{589}{2273}, \frac{289}{2273})$ $+ \frac{18}{2273}\sqrt{24182}e^2 \otimes e_7$	{1248, 157, 23589, 3479}
952:45	$0, 0, 0, 0, \frac{33}{2279}\sqrt{230}e^{12}, \frac{11}{2279}\sqrt{2802}e^{13}, \frac{11}{2279}\sqrt{3606}e^{14},$ $\frac{33}{2279}\sqrt{410}e^{15}, \frac{22}{2279}\sqrt{1038}e^{16} + \frac{495}{2279}\sqrt{2}e^{24}$	$(-\frac{242}{2279}, \frac{132}{2279}, \frac{627}{2279}, \frac{11}{2279}, -\frac{110}{2279}, \frac{385}{2279}, -\frac{231}{2279}, -\frac{352}{2279}, \frac{143}{2279})$ $+ \frac{77}{2279}\sqrt{138}e^4 \otimes e_8 + \frac{88}{2279}\sqrt{93}e^2 \otimes e_7$	{23589, 3479}
952:45	$0, 0, 0, 0, \frac{4}{195}\sqrt{103}e^{12}, \frac{2}{195}\sqrt{5974}e^{13}, \frac{2}{195}\sqrt{3399}e^{14}, \frac{2}{195}\sqrt{5974}e^{15},$ $\frac{4}{195}\sqrt{103}e^{16} + \frac{2}{39}\sqrt{103}e^{24}$	$(-\frac{41}{195}, \frac{1}{15}, \frac{137}{195}, \frac{14}{65}, -\frac{28}{195}, \frac{32}{65}, \frac{1}{195}, -\frac{23}{65}, \frac{11}{39})$ $+ \frac{2}{195}\sqrt{16583}e^3 \otimes e_8$	{123457, 146789, 2346, 4589}
952:45	$0, 0, 0, 0, \frac{13}{594}\sqrt{390}e^{12}, \frac{13}{297}\sqrt{17}e^{13}, \frac{13}{66}\sqrt{2}e^{14}, \frac{13}{297}\sqrt{114}e^{15},$ $\frac{13}{594}\sqrt{386}e^{16} + \frac{13}{297}\sqrt{106}e^{24}$	$(-\frac{52}{297}, \frac{26}{99}, \frac{13}{27}, -\frac{13}{99}, \frac{26}{297}, \frac{91}{297}, -\frac{91}{297}, -\frac{26}{297}, \frac{13}{99})$ $+ \frac{13}{297}\sqrt{291}e^2 \otimes e_7 + \frac{13}{594}\sqrt{938}e^3 \otimes e_8$	{1357, 2589}
952:45	$0, 0, 0, 0, \frac{6}{2273}\sqrt{77235}e^{12}, \frac{6}{2273}\sqrt{52574}e^{13}, \frac{8}{2273}\sqrt{25203}e^{14},$ $\frac{2}{2273}\sqrt{583734}e^{15}, \frac{2}{2273}\sqrt{166665}e^{16} + \frac{6}{2273}\sqrt{37127}e^{24}$	$(\frac{581}{2273}, -\frac{121}{2273}, -\frac{1045}{2273}, \frac{238}{2273}, \frac{460}{2273}, -\frac{464}{2273}, \frac{819}{2273}, \frac{1041}{2273}, \frac{117}{2273})$ $+ \frac{30}{2273}\sqrt{7046}e^1 \otimes e_3$	{12489, 1579, 2358, 347}
952:45	$0, 0, 0, 0, \frac{3}{283}\sqrt{46}e^{12}, \frac{3}{283}\sqrt{2162}e^{13}, \frac{3}{283}\sqrt{2990}e^{14}, \frac{69}{283}\sqrt{10}e^{15},$ $\frac{12}{283}\sqrt{230}e^{16} + \frac{9}{283}\sqrt{506}e^{24}$	$(-\frac{14}{283}, -\frac{60}{283}, \frac{87}{283}, \frac{119}{283}, -\frac{74}{283}, \frac{73}{283}, \frac{105}{283}, -\frac{88}{283}, \frac{59}{283})$ $+ \frac{27}{283}\sqrt{138}e^4 \otimes e_8$	{1236789, 134569, 23589, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:45	$0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{3}e^{14}, \frac{1}{7}\sqrt{6}e^{15},$ $\frac{1}{7}\sqrt{6}e^{16} + \frac{2}{7}\sqrt{2}e^{24}$	$(-\frac{1}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, -\frac{2}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{2}e^4 \otimes e_8 + \frac{4}{7}e^3 \otimes e_7$	{12345, 3568}
952:45	$0, 0, 0, 0, \frac{6}{89}\sqrt{89}e^{12}, \frac{24}{89}\sqrt{10}e^{13}, \frac{6}{89}\sqrt{146}e^{14}, \frac{12}{89}\sqrt{23}e^{15},$ $\frac{6}{89}\sqrt{37}e^{16} + \frac{18}{89}e^{24}$	$(-\frac{19}{89}, \frac{33}{89}, \frac{57}{89}, -\frac{14}{89}, \frac{14}{89}, \frac{38}{89}, -\frac{33}{89}, -\frac{5}{89}, \frac{19}{89})$ $+ \frac{18}{89}\sqrt{42}e^3 \otimes e_7$	{1234589, 125678, 3569, 457}
952:46	$0, 0, 0, 0, \frac{1}{90}\sqrt{3477}e^{12}, \frac{1}{90}\sqrt{1769}e^{13}, \frac{1}{90}\sqrt{3477}e^{14}, \frac{1}{90}\sqrt{3355}e^{25},$ $\frac{1}{90}\sqrt{2074}e^{16} + \frac{1}{90}\sqrt{915}e^{24}$	$(-\frac{2}{15}, \frac{53}{180}, \frac{14}{45}, -\frac{1}{4}, \frac{29}{180}, \frac{8}{45}, -\frac{23}{60}, \frac{41}{90}, \frac{2}{45})$ $+ \frac{1}{30}\sqrt{1037}e^2 \otimes e_7$	{1248, 1578, 2359, 3479}
952:46	$0, 0, 0, 0, \frac{1}{37}\sqrt{170}e^{12}, \frac{2}{37}\sqrt{238}e^{13}, \frac{1}{37}\sqrt{170}e^{14}, \frac{2}{37}\sqrt{221}e^{25},$ $\frac{3}{37}\sqrt{34}e^{16} + \frac{2}{37}\sqrt{34}e^{24}$	$(-\frac{7}{37}, -\frac{2}{37}, \frac{23}{37}, \frac{11}{37}, -\frac{9}{37}, \frac{16}{37}, \frac{4}{37}, -\frac{11}{37}, \frac{9}{37})$ $+ \frac{1}{37}\sqrt{2074}e^3 \otimes e_8$	{1234579, 139, 278, 458}
952:46	$0, 0, 0, 0, \frac{19}{2775}\sqrt{1974}e^{12}, \frac{38}{2775}\sqrt{411}e^{13}, \frac{19}{925}\sqrt{614}e^{14}, \frac{57}{925}\sqrt{34}e^{25},$ $\frac{152}{925}\sqrt{2}e^{16} + \frac{19}{2775}\sqrt{1554}e^{24}$	$(-\frac{133}{925}, -\frac{38}{925}, \frac{76}{185}, \frac{152}{925}, -\frac{171}{925}, \frac{247}{925}, \frac{19}{925}, -\frac{209}{925}, \frac{114}{925})$ $+ \frac{19}{2775}\sqrt{6834}e^3 \otimes e_7 + \frac{19}{2775}\sqrt{8166}e^4 \otimes e_8$	{12345, 3568}
952:46	$0, 0, 0, 0, \frac{28}{1161}\sqrt{39}e^{12}, \frac{14}{1161}\sqrt{158}e^{13}, \frac{14}{129}\sqrt{5}e^{14}, \frac{14}{1161}\sqrt{334}e^{25},$ $\frac{14}{1161}\sqrt{211}e^{16} + \frac{14}{1161}\sqrt{159}e^{24}$	$(-\frac{35}{387}, \frac{14}{1161}, \frac{245}{1161}, \frac{7}{387}, -\frac{91}{1161}, \frac{140}{1161}, -\frac{28}{387}, -\frac{77}{1161}, \frac{35}{1161})$ $+ \frac{112}{387}e^2 \otimes e_7 + \frac{14}{1161}\sqrt{498}e^4 \otimes e_8$	{1578, 3479}
952:46	$0, 0, 0, 0, \frac{2}{963}\sqrt{64165}e^{12}, \frac{4}{2889}\sqrt{317695}e^{13}, \frac{2}{2889}\sqrt{1286430}e^{14},$ $\frac{4}{2889}\sqrt{73555}e^{25}, \frac{2}{2889}\sqrt{57905}e^{16} + \frac{2}{2889}\sqrt{89205}e^{24}$	$(-\frac{265}{963}, \frac{745}{2889}, \frac{2077}{2889}, -\frac{86}{963}, -\frac{50}{2889}, \frac{1282}{2889}, -\frac{39}{107}, \frac{695}{2889}, \frac{487}{2889})$ $+ \frac{2}{2889}\sqrt{3727830}e^3 \otimes e_7$	{123459, 12567, 35689, 4578}
952:46	$0, 0, 0, 0, \frac{4}{713}\sqrt{16377}e^{12}, \frac{4}{713}\sqrt{8034}e^{13}, \frac{4}{713}\sqrt{16377}e^{14},$ $\frac{2}{713}\sqrt{31209}e^{25}, \frac{8}{713}\sqrt{3090}e^{16} + \frac{2}{713}\sqrt{59019}e^{24}$	$(\frac{233}{713}, -\frac{10}{713}, -\frac{385}{713}, \frac{91}{713}, \frac{223}{713}, -\frac{152}{713}, \frac{324}{713}, \frac{213}{713}, \frac{81}{713})$ $+ \frac{2}{713}\sqrt{185709}e^1 \otimes e_3$	{12489, 15789, 235, 347}
952:46	$0, 0, 0, 0, \frac{4}{2889}\sqrt{72105}e^{12}, \frac{2}{2889}\sqrt{118910}e^{13}, \frac{2}{963}\sqrt{137885}e^{14},$ $\frac{46}{2889}\sqrt{1870}e^{25}, \frac{110}{2889}\sqrt{115}e^{16} + \frac{2}{2889}\sqrt{686895}e^{24}$	$(\frac{29}{963}, -\frac{626}{2889}, \frac{565}{2889}, \frac{455}{963}, -\frac{539}{2889}, \frac{652}{2889}, \frac{484}{963}, \frac{1165}{2889}, \frac{739}{2889})$ $+ \frac{2}{2889}\sqrt{3058770}e^4 \otimes e_8$	{1245, 13469, 2389, 568}
952:46	$0, 0, 0, 0, \frac{52}{833}\sqrt{23}e^{12}, \frac{26}{833}\sqrt{94}e^{13}, \frac{26}{833}\sqrt{277}e^{14}, \frac{26}{833}\sqrt{166}e^{25},$ $\frac{78}{833}\sqrt{5}e^{16} + \frac{26}{833}\sqrt{41}e^{24}$	$(\frac{143}{833}, -\frac{130}{833}, -\frac{195}{833}, \frac{13}{49}, \frac{13}{833}, -\frac{52}{833}, \frac{52}{119}, -\frac{117}{833}, \frac{13}{119})$ $+ \frac{26}{833}\sqrt{370}e^4 \otimes e_8 + \frac{52}{833}\sqrt{94}e^1 \otimes e_3$	{15789, 347}
952:47	$0, 0, 0, 0, \frac{2}{89}\sqrt{1653}e^{12}, \frac{5}{89}\sqrt{174}e^{13}, \frac{5}{89}\sqrt{174}e^{14}, \frac{1}{89}\sqrt{2262}e^{15},$ $\frac{5}{89}\sqrt{174}e^{16} + \frac{1}{89}\sqrt{2262}e^{34}$	$(-\frac{12}{89}, \frac{51}{89}, \frac{26}{89}, -\frac{24}{89}, \frac{39}{89}, \frac{14}{89}, -\frac{36}{89}, \frac{27}{89}, \frac{2}{89})$ $+ \frac{15}{89}\sqrt{58}e^2 \otimes e_7$	{135679, 157, 23589, 2568}
952:47	$0, 0, 0, 0, \frac{39}{83}\sqrt{2}e^{12}, \frac{10}{83}\sqrt{39}e^{13}, \frac{5}{83}\sqrt{78}e^{14}, \frac{2}{83}\sqrt{273}e^{15},$ $\frac{10}{83}\sqrt{39}e^{16} + \frac{39}{83}\sqrt{2}e^{34}$	$(\frac{11}{83}, -\frac{28}{83}, -\frac{3}{83}, \frac{22}{83}, -\frac{17}{83}, \frac{8}{83}, \frac{33}{83}, -\frac{6}{83}, \frac{19}{83})$ $+ \frac{15}{83}\sqrt{26}e^1 \otimes e_2$	{1349, 146, 2346789, 2478}
952:47	$0, 0, 0, 0, \frac{7}{1031}\sqrt{1398}e^{12}, \frac{231}{1031}\sqrt{2}e^{13}, \frac{14}{1031}\sqrt{303}e^{14}, \frac{63}{1031}\sqrt{34}e^{15},$ $\frac{14}{1031}\sqrt{678}e^{16} + \frac{14}{1031}\sqrt{822}e^{34}$	$(\frac{7}{1031}, -\frac{147}{1031}, \frac{168}{1031}, \frac{14}{1031}, -\frac{140}{1031}, \frac{175}{1031}, \frac{21}{1031}, -\frac{133}{1031}, \frac{182}{1031})$ $+ \frac{21}{1031}\sqrt{178}e^3 \otimes e_7 + \frac{42}{1031}\sqrt{113}e^4 \otimes e_8$	{1278, 23589}
952:47	$0, 0, 0, 0, \frac{6}{149}\sqrt{10}e^{12}, \frac{1}{149}\sqrt{462}e^{13}, \frac{1}{149}\sqrt{186}e^{14}, \frac{15}{149}\sqrt{2}e^{15},$ $\frac{1}{149}\sqrt{462}e^{16} + \frac{15}{149}\sqrt{2}e^{34}$	$(-\frac{2}{149}, -\frac{3}{149}, \frac{12}{149}, -\frac{4}{149}, -\frac{5}{149}, \frac{10}{149}, -\frac{6}{149}, -\frac{7}{149}, \frac{8}{149})$ $+ \frac{1}{149}\sqrt{282}e^2 \otimes e_7 + \frac{2}{149}\sqrt{138}e^4 \otimes e_8$	{23589, 2568}
952:47	$0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{1}{43}\sqrt{78}e^{13}, \frac{2}{43}\sqrt{39}e^{14}, \frac{3}{43}\sqrt{22}e^{15},$ $\frac{1}{43}\sqrt{78}e^{16} + \frac{2}{43}\sqrt{69}e^{34}$	$(-\frac{3}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{4}{43}, \frac{4}{43}, -\frac{9}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_9 - \frac{3}{43}\sqrt{26}e^3 \otimes e_8$	{128, 13569, 25678, 379}
952:47	$0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{1}{43}\sqrt{78}e^{13}, \frac{2}{43}\sqrt{39}e^{14}, \frac{3}{43}\sqrt{22}e^{15},$ $\frac{1}{43}\sqrt{78}e^{16} + \frac{2}{43}\sqrt{69}e^{34}$	$(-\frac{3}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{4}{43}, \frac{4}{43}, -\frac{9}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_9 + \frac{3}{43}\sqrt{26}e^3 \otimes e_8$	{128, 13569, 25678, 379}
952:47	$0, 0, 0, 0, \frac{24}{637}\sqrt{82}e^{12}, \frac{40}{637}\sqrt{39}e^{13}, \frac{80}{637}\sqrt{6}e^{14}, \frac{88}{637}\sqrt{3}e^{15},$ $\frac{40}{637}\sqrt{30}e^{16} + \frac{24}{637}\sqrt{57}e^{34}$	$(\frac{4}{637}, -\frac{92}{637}, \frac{108}{637}, \frac{8}{637}, -\frac{88}{637}, \frac{16}{637}, \frac{12}{637}, -\frac{12}{91}, \frac{116}{637})$ $+ \frac{120}{637}\sqrt{3}e^3 \otimes e_7 + \frac{120}{637}\sqrt{5}e^1 \otimes e_2$	{1349, 2478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:47	$0, 0, 0, 0, \frac{2}{275}\sqrt{183}e^{12}, \frac{3}{275}\sqrt{91}e^{13}, \frac{1}{275}\sqrt{39}e^{14}, \frac{1}{275}\sqrt{849}e^{15},$ $\frac{4}{275}\sqrt{39}e^{16} + \frac{6}{275}\sqrt{29}e^{34}$	$(\frac{1}{55}, -\frac{3}{275}, -\frac{16}{275}, \frac{2}{55}, \frac{2}{275}, -\frac{1}{25}, \frac{3}{55}, \frac{7}{275}, -\frac{6}{275})$ $+ \frac{3}{275}\sqrt{65}e^2 \otimes e_9 + \frac{6}{275}\sqrt{26}e^4 \otimes e_8$	{128, 25678}
952:47	$0, 0, 0, 0, \frac{3}{61}\sqrt{114}e^{12}, \frac{3}{61}\sqrt{42}e^{13}, \frac{6}{61}\sqrt{6}e^{14}, \frac{3}{61}\sqrt{138}e^{15},$ $\frac{18}{61}\sqrt{3}e^{16} + \frac{3}{61}\sqrt{138}e^{34}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{9}{61}\sqrt{14}e^2 \otimes e_7 + \frac{9}{61}\sqrt{22}e^3 \otimes e_8$	{128, 379}
952:47	$0, 0, 0, 0, \frac{3}{19}\sqrt{5}e^{12}, \frac{2}{19}\sqrt{21}e^{13}, \frac{1}{19}\sqrt{15}e^{14}, \frac{2}{19}\sqrt{6}e^{15},$ $\frac{1}{19}\sqrt{57}e^{16} + \frac{3}{19}\sqrt{2}e^{34}$	$(\frac{1}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{2}{19}, -\frac{4}{19}, \frac{4}{19}, \frac{3}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{3}{19}\sqrt{14}e^1 \otimes e_2 + \frac{9}{19}e^3 \otimes e_8$	{1468, 234679}
952:47	$0, 0, 0, 0, \frac{4}{175}\sqrt{402}e^{12}, \frac{16}{175}\sqrt{39}e^{13}, \frac{8}{175}\sqrt{39}e^{14}, \frac{4}{175}\sqrt{714}e^{15},$ $\frac{16}{175}\sqrt{39}e^{16} + \frac{4}{175}\sqrt{714}e^{34}$	$(\frac{3}{35}, -\frac{48}{175}, \frac{4}{175}, \frac{6}{35}, -\frac{33}{175}, \frac{19}{175}, \frac{9}{35}, -\frac{18}{175}, \frac{34}{175})$ $+ \frac{24}{175}\sqrt{26}e^4 \otimes e_8$	{1236789, 1278, 23589, 2568}
952:47	$0, 0, 0, 0, \frac{2}{25}\sqrt{78}e^{12}, \frac{2}{25}\sqrt{111}e^{13}, \frac{2}{25}\sqrt{6}e^{14}, \frac{1}{25}\sqrt{354}e^{15},$ $\frac{2}{25}\sqrt{111}e^{16} + \frac{2}{25}\sqrt{111}e^{34}$	$(0, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{30}e^1 \otimes e_2 + \frac{6}{25}\sqrt{11}e^4 \otimes e_8$	{123689, 128}
952:48	$0, 0, 0, 0, \frac{4}{613}\sqrt{466}e^{12}, \frac{2}{613}\sqrt{39610}e^{13}, \frac{2}{613}\sqrt{18407}e^{14}, \frac{2}{613}\sqrt{40542}e^{15},$ $\frac{2}{613}\sqrt{2563}e^{24} + \frac{8}{613}\sqrt{3029}e^{36}$	$(-\frac{169}{613}, \frac{107}{613}, \frac{235}{613}, \frac{194}{613}, -\frac{62}{613}, \frac{66}{613}, \frac{25}{613}, -\frac{231}{613}, \frac{301}{613})$ $+ \frac{2}{613}\sqrt{118597}e^3 \otimes e_8$	{1246789, 1359, 2578, 346}
952:48	$0, 0, 0, 0, \frac{2}{2889}\sqrt{346027}e^{12}, \frac{22}{321}\sqrt{83}e^{13}, \frac{4}{2889}\sqrt{260205}e^{14},$ $\frac{2}{2889}\sqrt{497585}e^{15}, \frac{166}{2889}\sqrt{66}e^{24} + \frac{2}{2889}\sqrt{1030777}e^{36}$	$(-\frac{79}{321}, \frac{1273}{2889}, \frac{869}{2889}, -\frac{82}{963}, \frac{562}{2889}, \frac{158}{2889}, -\frac{319}{963}, -\frac{149}{2889}, \frac{1027}{2889})$ $+ \frac{2}{963}\sqrt{252901}e^3 \otimes e_7$	{1234589, 1679, 2368, 457}
952:48	$0, 0, 0, 0, \frac{2}{2961}\sqrt{335923}e^{12}, \frac{4}{2961}\sqrt{73929}e^{13}, \frac{4}{2961}\sqrt{19455}e^{14},$ $\frac{2}{2961}\sqrt{1145251}e^{15}, \frac{2}{987}\sqrt{136185}e^{24} + \frac{2}{2961}\sqrt{201035}e^{36}$	$(-\frac{152}{987}, -\frac{206}{2961}, \frac{863}{2961}, \frac{164}{329}, -\frac{662}{2961}, \frac{407}{2961}, \frac{340}{987}, -\frac{1118}{2961}, \frac{1270}{2961})$ $+ \frac{2}{2961}\sqrt{3217857}e^4 \otimes e_8$	{2347, 2467, 358, 568}
952:48	$0, 0, 0, 0, \frac{40}{581}\sqrt{21}e^{12}, \frac{80}{581}\sqrt{6}e^{13}, \frac{60}{581}\sqrt{23}e^{14}, \frac{30}{581}e^{15},$ $\frac{5}{83}\sqrt{6}e^{24} + \frac{45}{581}\sqrt{26}e^{36}$	$(-\frac{135}{581}, \frac{120}{581}, \frac{165}{581}, \frac{75}{581}, -\frac{15}{581}, \frac{30}{581}, \frac{60}{581}, -\frac{150}{581}, \frac{195}{581})$ $+ \frac{5}{581}\sqrt{3846}e^4 \otimes e_8 + \frac{5}{581}\sqrt{5502}e^3 \otimes e_7$	{247, 3568}
952:49	$0, 0, 0, 0, \frac{1}{255}\sqrt{582}e^{12}, \frac{4}{85}\sqrt{194}e^{13}, \frac{1}{255}\sqrt{13386}e^{14}, \frac{2}{255}\sqrt{8245}e^{25},$ $\frac{1}{255}\sqrt{582}e^{16} + \frac{4}{85}\sqrt{194}e^{34}$	$(\frac{1}{85}, -\frac{43}{255}, \frac{37}{85}, \frac{2}{85}, -\frac{8}{51}, \frac{38}{85}, \frac{3}{85}, -\frac{83}{255}, \frac{39}{85})$ $+ \frac{1}{85}\sqrt{9118}e^3 \otimes e_8$	{1268, 1568, 235679, 3679}
952:49	$0, 0, 0, 0, \frac{4}{337}\sqrt{110}e^{12}, \frac{8}{1011}\sqrt{21}e^{13}, \frac{4}{1011}\sqrt{822}e^{14}, \frac{8}{1011}\sqrt{337}e^{25},$ $\frac{4}{1011}\sqrt{282}e^{16} + \frac{40}{1011}\sqrt{15}e^{34}$	$(-\frac{12}{337}, \frac{44}{1011}, \frac{28}{337}, -\frac{24}{337}, \frac{8}{1011}, \frac{16}{337}, -\frac{36}{337}, \frac{52}{1011}, \frac{4}{337})$ $+ \frac{4}{337}\sqrt{170}e^3 \otimes e_8 + \frac{8}{337}\sqrt{59}e^2 \otimes e_9$	{1268, 3679}
952:49	$0, 0, 0, 0, \frac{11}{786}\sqrt{606}e^{12}, \frac{11}{393}\sqrt{15}e^{13}, \frac{11}{786}\sqrt{330}e^{14}, \frac{11}{393}\sqrt{262}e^{25},$ $\frac{11}{262}\sqrt{42}e^{16} + \frac{11}{393}\sqrt{138}e^{34}$	$(-\frac{11}{131}, \frac{22}{393}, \frac{44}{131}, -\frac{22}{131}, -\frac{11}{393}, \frac{33}{131}, -\frac{33}{131}, \frac{11}{393}, \frac{22}{131})$ $+ \frac{11}{131}\sqrt{41}e^2 \otimes e_7 + \frac{11}{262}\sqrt{146}e^3 \otimes e_8$	{124689, 3467}
952:49	$0, 0, 0, 0, \frac{2}{987}\sqrt{26130}e^{12}, \frac{134}{987}\sqrt{15}e^{13}, \frac{2}{987}\sqrt{106530}e^{14},$ $\frac{2}{987}\sqrt{110215}e^{25}, \frac{134}{987}\sqrt{15}e^{16} + \frac{2}{987}\sqrt{119595}e^{34}$	$(\frac{52}{329}, -\frac{257}{987}, -\frac{2}{329}, \frac{104}{329}, -\frac{101}{987}, \frac{50}{329}, \frac{156}{329}, -\frac{358}{987}, \frac{102}{329})$ $+ \frac{2}{329}\sqrt{31155}e^4 \otimes e_8$	{1236789, 1278, 1356789, 1578}
952:49	$0, 0, 0, 0, \frac{2}{987}\sqrt{119595}e^{12}, \frac{134}{987}\sqrt{15}e^{13}, \frac{2}{987}\sqrt{106530}e^{14},$ $\frac{2}{987}\sqrt{110215}e^{25}, \frac{134}{987}\sqrt{15}e^{16} + \frac{2}{987}\sqrt{26130}e^{34}$	$(-\frac{41}{329}, \frac{43}{141}, \frac{13}{47}, -\frac{82}{329}, \frac{178}{987}, \frac{50}{329}, -\frac{123}{329}, \frac{479}{987}, \frac{9}{329})$ $+ \frac{2}{329}\sqrt{31155}e^2 \otimes e_7$	{1356789, 1578, 2359, 256}
952:49	$0, 0, 0, 0, \frac{4}{249}\sqrt{527}e^{12}, \frac{2}{249}\sqrt{6386}e^{13}, \frac{8}{249}\sqrt{465}e^{14}, \frac{2}{249}\sqrt{1798}e^{25},$ $\frac{4}{249}\sqrt{527}e^{16} + \frac{2}{249}\sqrt{6386}e^{34}$	$(-\frac{34}{249}, \frac{46}{249}, \frac{146}{249}, -\frac{68}{249}, \frac{4}{83}, \frac{112}{249}, -\frac{34}{83}, \frac{58}{249}, \frac{26}{83})$ $+ \frac{2}{249}\sqrt{25482}e^3 \otimes e_7$	{12345, 134, 24789, 45789}
952:49	$0, 0, 0, 0, \frac{17}{7233}\sqrt{3954}e^{12}, \frac{17}{7233}\sqrt{2886}e^{13}, \frac{17}{7233}\sqrt{186}e^{14},$ $\frac{17}{7233}\sqrt{4822}e^{25}, \frac{34}{7233}\sqrt{105}e^{16} + \frac{17}{7233}\sqrt{5862}e^{34}$	$(\frac{85}{2411}, -\frac{17}{7233}, -\frac{272}{2411}, \frac{170}{2411}, \frac{238}{7233}, -\frac{187}{2411}, \frac{255}{2411}, \frac{221}{7233}, -\frac{102}{2411})$ $+ \frac{17}{2411}\sqrt{822}e^2 \otimes e_9 + \frac{34}{2411}\sqrt{159}e^4 \otimes e_8$	{1278, 1356789}
952:49	$0, 0, 0, 0, \frac{2}{507}\sqrt{21945}e^{12}, \frac{2}{507}\sqrt{8151}e^{13}, \frac{1}{507}\sqrt{46398}e^{14}, \frac{1}{39}\sqrt{418}e^{25},$ $\frac{22}{507}\sqrt{57}e^{16} + \frac{2}{507}\sqrt{21945}e^{34}$	$(-\frac{4}{169}, \frac{128}{507}, -\frac{19}{169}, -\frac{8}{169}, \frac{116}{507}, -\frac{23}{169}, -\frac{12}{169}, \frac{244}{507}, -\frac{27}{169})$ $+ \frac{4}{169}\sqrt{1254}e^2 \otimes e_9$	{1234678, 145789, 2345, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:49	$0, 0, 0, 0, \frac{4}{135}\sqrt{185}e^{12}, \frac{2}{27}\sqrt{6}e^{13}, \frac{8}{135}\sqrt{15}e^{14}, \frac{2}{135}\sqrt{670}e^{25},$ $\frac{4}{45}\sqrt{5}e^{16} + \frac{2}{135}\sqrt{970}e^{34}$	$(-\frac{2}{27}, \frac{2}{9}, \frac{2}{27}, -\frac{4}{27}, \frac{4}{27}, 0, -\frac{2}{9}, \frac{10}{27}, -\frac{2}{27})$ $+\frac{2}{135}\sqrt{690}e^3 \otimes e_7 + \frac{8}{135}\sqrt{105}e^2 \otimes e_9$	{145789, 2345}
952:49	$0, 0, 0, 0, \frac{5}{67}\sqrt{2}e^{12}, \frac{4}{201}\sqrt{30}e^{13}, \frac{1}{201}\sqrt{690}e^{14}, \frac{1}{201}\sqrt{670}e^{25},$ $\frac{4}{201}\sqrt{30}e^{16} + \frac{5}{67}\sqrt{2}e^{34}$	$(-\frac{1}{67}, -\frac{4}{201}, \frac{6}{67}, -\frac{2}{67}, -\frac{7}{201}, \frac{5}{67}, -\frac{3}{67}, -\frac{11}{201}, \frac{4}{67})$ $+\frac{1}{201}\sqrt{930}e^2 \otimes e_7 + \frac{1}{201}\sqrt{930}e^4 \otimes e_8$	{1356789, 1578}
952:50	$0, 0, 0, 0, \frac{4}{3179}\sqrt{58206}e^{12}, \frac{8}{3179}\sqrt{50997}e^{13}, \frac{4}{3179}\sqrt{295035}e^{14},$ $\frac{36}{3179}\sqrt{1335}e^{25}, \frac{4}{3179}\sqrt{182094}e^{24} + \frac{12}{3179}\sqrt{38181}e^{36}$	$(-\frac{1118}{3179}, \frac{1028}{3179}, \frac{1128}{3179}, \frac{10}{289}, -\frac{90}{3179}, \frac{10}{3179}, -\frac{1008}{3179}, \frac{938}{3179}, \frac{1138}{3179})$ $+\frac{252}{3179}\sqrt{178}e^3 \otimes e_7$	{123459, 1679, 2368, 4578}
952:50	$0, 0, 0, 0, \frac{1}{134}\sqrt{355}e^{12}, \frac{1}{134}\sqrt{6106}e^{13}, \frac{1}{134}\sqrt{355}e^{14}, \frac{1}{134}\sqrt{7810}e^{25},$ $\frac{1}{134}\sqrt{4402}e^{24} + \frac{1}{134}\sqrt{7810}e^{36}$	$(-\frac{13}{67}, -\frac{9}{268}, \frac{18}{67}, \frac{101}{268}, -\frac{61}{268}, \frac{5}{67}, \frac{49}{268}, -\frac{35}{134}, \frac{23}{67})$ $+\frac{2}{67}\sqrt{994}e^3 \otimes e_8$	{124689, 156789, 2356, 3467}
952:50	$0, 0, 0, 0, \frac{16}{3107}\sqrt{6699}e^{12}, \frac{8}{3107}\sqrt{4002}e^{13}, \frac{8}{3107}\sqrt{85173}e^{14},$ $\frac{24}{3107}\sqrt{8323}e^{25}, \frac{16}{3107}\sqrt{11397}e^{24} + \frac{24}{3107}\sqrt{29}e^{36}$	$(-\frac{92}{3107}, -\frac{544}{3107}, \frac{576}{3107}, \frac{1604}{3107}, -\frac{636}{3107}, \frac{484}{3107}, \frac{1512}{3107}, -\frac{1180}{3107}, \frac{1060}{3107})$ $+\frac{24}{3107}\sqrt{24882}e^4 \otimes e_8$	{123456, 1245, 2389, 2689}
952:50	$0, 0, 0, 0, \frac{128}{1257}\sqrt{6}e^{12}, \frac{16}{1257}\sqrt{462}e^{13}, \frac{16}{419}\sqrt{143}e^{14}, \frac{16}{419}\sqrt{77}e^{25},$ $\frac{32}{1257}\sqrt{42}e^{24} + \frac{16}{419}\sqrt{91}e^{36}$	$(-\frac{104}{419}, \frac{32}{419}, \frac{112}{419}, \frac{88}{419}, -\frac{72}{419}, \frac{8}{419}, \frac{16}{419}, -\frac{40}{419}, \frac{120}{419})$ $+\frac{16}{1257}\sqrt{1482}e^4 \otimes e_8 + \frac{32}{1257}\sqrt{465}e^3 \otimes e_7$	{123459, 2368}
952:50	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{4}e^{14}, \frac{1}{4}\sqrt{3}e^{25}, \frac{1}{4}e^{24} + \frac{1}{4}\sqrt{2}e^{36}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, -\frac{1}{8}, 0, \frac{1}{4})$ $+\frac{1}{2}e^3 \otimes e_8 - \frac{1}{4}\sqrt{3}e^2 \otimes e_7$	{124689, 156789, 2356, 3467}
952:50	$0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{4}e^{14}, \frac{1}{4}\sqrt{3}e^{25}, \frac{1}{4}e^{24} + \frac{1}{4}\sqrt{2}e^{36}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, -\frac{1}{8}, 0, \frac{1}{4})$ $+\frac{1}{2}e^3 \otimes e_8 + \frac{1}{4}\sqrt{3}e^2 \otimes e_7$	{124689, 156789, 2356, 3467}
952:50	$0, 0, 0, 0, \frac{1}{20}\sqrt{165}e^{12}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{20}\sqrt{165}e^{14}, \frac{1}{20}\sqrt{195}e^{25},$ $\frac{1}{20}\sqrt{15}e^{24} + \frac{1}{20}\sqrt{30}e^{36}$	$(-\frac{1}{4}, \frac{3}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, -\frac{3}{8}, \frac{1}{2}, \frac{1}{4})$ $+\frac{3}{20}\sqrt{55}e^2 \otimes e_7$	{123468, 1248, 135678, 1578, 2359, 2569, 3479, 4679}
952:50	$0, 0, 0, 0, \frac{1}{20}\sqrt{165}e^{12}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{20}\sqrt{165}e^{14}, \frac{1}{20}\sqrt{195}e^{25},$ $\frac{1}{20}\sqrt{15}e^{24} + \frac{1}{20}\sqrt{30}e^{36}$	$(-\frac{1}{4}, \frac{3}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, -\frac{3}{8}, \frac{1}{2}, \frac{1}{4})$ $-\frac{3}{20}\sqrt{55}e^2 \otimes e_7$	{123468, 1248, 135678, 1578, 2359, 2569, 3479, 4679}
952:51	$0, 0, 0, 0, \frac{12}{571}\sqrt{322}e^{12}, \frac{12}{571}\sqrt{322}e^{13}, \frac{156}{571}\sqrt{7}e^{24}, \frac{156}{571}\sqrt{7}e^{15},$ $\frac{12}{571}\sqrt{770}e^{14} + \frac{12}{571}\sqrt{35}e^{36}$	$(-\frac{92}{571}, -\frac{28}{571}, \frac{146}{571}, \frac{292}{571}, -\frac{120}{571}, \frac{54}{571}, \frac{264}{571}, -\frac{212}{571}, \frac{200}{571})$ $+\frac{168}{571}\sqrt{17}e^4 \otimes e_8$	{13689, 189, 358, 568}
952:51	$0, 0, 0, 0, \frac{32}{1321}\sqrt{87}e^{12}, \frac{128}{1321}\sqrt{6}e^{13}, \frac{16}{1321}\sqrt{1005}e^{24}, \frac{48}{1321}\sqrt{71}e^{15},$ $\frac{160}{1321}\sqrt{6}e^{14} + \frac{16}{1321}\sqrt{555}e^{36}$	$(-\frac{256}{1321}, \frac{304}{1321}, \frac{88}{1321}, \frac{176}{1321}, \frac{48}{1321}, -\frac{168}{1321}, \frac{480}{1321}, -\frac{208}{1321}, -\frac{80}{1321})$ $+\frac{16}{1321}\sqrt{1698}e^4 \otimes e_8 + \frac{16}{1321}\sqrt{1830}e^2 \otimes e_9$	{3479, 4679}
952:51	$0, 0, 0, 0, \frac{4}{55}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{1}{55}\sqrt{265}e^{24}, \frac{1}{55}\sqrt{170}e^{15},$ $\frac{1}{55}\sqrt{65}e^{14} + \frac{6}{55}\sqrt{5}e^{36}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11})$ $-\frac{1}{11}\sqrt{19}e^2 \otimes e_9 + \frac{3}{55}\sqrt{55}e^1 \otimes e_7$	{1359, 1569, 235678, 2578}
952:51	$0, 0, 0, 0, \frac{4}{55}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{1}{55}\sqrt{265}e^{24}, \frac{1}{55}\sqrt{170}e^{15},$ $\frac{1}{55}\sqrt{65}e^{14} + \frac{6}{55}\sqrt{5}e^{36}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11})$ $+\frac{1}{11}\sqrt{19}e^2 \otimes e_9 + \frac{3}{55}\sqrt{55}e^1 \otimes e_7$	{1359, 1569, 235678, 2578}
952:51	$0, 0, 0, 0, \frac{1}{359}\sqrt{9717}e^{12}, \frac{1}{359}\sqrt{29783}e^{13}, \frac{3}{359}\sqrt{3318}e^{24}, \frac{1}{359}\sqrt{237}e^{15},$ $\frac{1}{359}\sqrt{23147}e^{14} + \frac{1}{359}\sqrt{26623}e^{36}$	$(\frac{129}{718}, -\frac{81}{359}, \frac{2}{359}, \frac{4}{359}, -\frac{33}{718}, \frac{133}{718}, -\frac{77}{359}, \frac{48}{359}, \frac{137}{718})$ $+\frac{25}{359}\sqrt{79}e^3 \otimes e_7$	{123459, 146789, 2346, 4578}
952:51	$0, 0, 0, 0, \frac{4}{1001}\sqrt{25026}e^{12}, \frac{4}{1001}\sqrt{6790}e^{13}, \frac{4}{1001}\sqrt{21631}e^{24},$ $\frac{4}{1001}\sqrt{5723}e^{15}, \frac{4}{1001}\sqrt{7178}e^{14} + \frac{4}{1001}\sqrt{29973}e^{36}$	$(-\frac{20}{143}, \frac{40}{77}, -\frac{58}{1001}, -\frac{116}{1001}, \frac{380}{1001}, -\frac{18}{91}, \frac{404}{1001}, \frac{240}{1001}, -\frac{256}{1001})$ $+\frac{8}{1001}\sqrt{19885}e^2 \otimes e_9$	{123468, 1248, 3479, 4679}
952:51	$0, 0, 0, 0, \frac{16}{183}\sqrt{2}e^{12}, \frac{16}{183}\sqrt{2}e^{13}, \frac{8}{183}\sqrt{51}e^{24}, \frac{8}{183}\sqrt{51}e^{15},$ $\frac{8}{183}\sqrt{22}e^{14} + \frac{8}{183}e^{36}$	$(\frac{16}{183}, -\frac{40}{183}, \frac{4}{61}, \frac{8}{61}, -\frac{8}{61}, \frac{28}{183}, -\frac{16}{183}, -\frac{8}{183}, \frac{40}{183})$ $+\frac{8}{183}\sqrt{78}e^4 \otimes e_8 + \frac{8}{183}\sqrt{86}e^1 \otimes e_7$	{34679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:51	$0, 0, 0, 0, \frac{76}{3161}\sqrt{87}e^{12}, \frac{38}{3161}\sqrt{530}e^{13}, \frac{38}{3161}\sqrt{613}e^{24}, \frac{304}{3161}\sqrt{11}e^{15}, \frac{266}{3161}\sqrt{13}e^{14} + \frac{38}{3161}\sqrt{1266}e^{36}$	$(-\frac{19}{109}, \frac{589}{3161}, \frac{209}{3161}, \frac{418}{3161}, \frac{38}{3161}, -\frac{342}{3161}, \frac{1007}{3161}, -\frac{513}{3161}, -\frac{133}{3161}) + \frac{114}{3161}\sqrt{179}e^3 \otimes e_8 + \frac{1292}{3161}e^2 \otimes e_9$	{134579, 2458}
952:51	$0, 0, 0, 0, \frac{44}{123}\sqrt{2}e^{12}, \frac{44}{123}\sqrt{2}e^{13}, \frac{44}{123}\sqrt{3}e^{24}, \frac{44}{123}\sqrt{3}e^{15}, \frac{4}{123}\sqrt{22}e^{14} + \frac{4}{123}\sqrt{77}e^{36}$	$(\frac{44}{123}, -\frac{32}{123}, -\frac{2}{41}, -\frac{4}{41}, \frac{4}{41}, \frac{38}{123}, -\frac{44}{123}, \frac{56}{123}, \frac{32}{123}) + \frac{40}{123}\sqrt{11}e^1 \otimes e_7$	{1359, 1569, 235678, 2578}
952:51	$0, 0, 0, 0, \frac{14}{3089}\sqrt{11}e^{12}, \frac{14}{3089}\sqrt{1009}e^{13}, \frac{14}{3089}\sqrt{1322}e^{24}, \frac{70}{3089}e^{15}, \frac{14}{3089}\sqrt{766}e^{14} + \frac{14}{3089}\sqrt{1285}e^{36}$	$(\frac{161}{3089}, \frac{21}{3089}, -\frac{119}{3089}, -\frac{238}{3089}, \frac{182}{3089}, \frac{42}{3089}, -\frac{217}{3089}, \frac{343}{3089}, -\frac{77}{3089}) + \frac{14}{3089}\sqrt{1857}e^3 \otimes e_7 + \frac{14}{3089}\sqrt{914}e^2 \otimes e_9$	{146789, 2346}
952:51	$0, 0, 0, 0, \frac{4}{51}\sqrt{3}e^{12}, \frac{2}{51}\sqrt{42}e^{13}, \frac{2}{51}\sqrt{33}e^{24}, \frac{8}{51}\sqrt{3}e^{15}, \frac{2}{51}\sqrt{33}e^{14} + \frac{2}{51}\sqrt{42}e^{36}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{1}{17}, \frac{3}{17}) + \frac{10}{51}\sqrt{3}e^3 \otimes e_8 + \frac{4}{51}\sqrt{15}e^1 \otimes e_7$	{124689, 3467}
952:51	$0, 0, 0, 0, \frac{39}{1151}\sqrt{41}e^{12}, \frac{65}{1151}\sqrt{35}e^{13}, \frac{26}{1151}\sqrt{273}e^{24}, \frac{13}{1151}\sqrt{159}e^{15}, \frac{143}{1151}\sqrt{5}e^{14} + \frac{13}{1151}\sqrt{805}e^{36}$	$(\frac{195}{2302}, -\frac{234}{1151}, \frac{65}{1151}, \frac{130}{1151}, -\frac{273}{2302}, \frac{325}{2302}, -\frac{104}{1151}, -\frac{39}{1151}, \frac{455}{2302}) + \frac{13}{1151}\sqrt{1555}e^3 \otimes e_7 + \frac{26}{1151}\sqrt{123}e^4 \otimes e_8$	{123459, 2346}
952:51	$0, 0, 0, 0, \frac{4}{747}\sqrt{382}e^{12}, \frac{2}{747}\sqrt{49278}e^{13}, \frac{2}{747}\sqrt{26167}e^{24}, \frac{2}{747}\sqrt{50042}e^{15}, \frac{2}{249}\sqrt{6303}e^{14} + \frac{4}{747}\sqrt{16617}e^{36}$	$(-\frac{109}{747}, -\frac{23}{747}, \frac{47}{249}, \frac{94}{249}, -\frac{44}{249}, \frac{32}{747}, \frac{259}{747}, -\frac{241}{747}, \frac{173}{747}) + \frac{50}{747}\sqrt{191}e^3 \otimes e_8$	{124689, 134579, 2458, 3467}
952:52	$0, 0, 0, 0, \frac{25}{2809}\sqrt{106}e^{12}, \frac{5}{2809}\sqrt{2994}e^{13}, \frac{5}{2809}\sqrt{258}e^{24}, \frac{5}{2809}\sqrt{3018}e^{15}, \frac{10}{2809}\sqrt{589}e^{16} + \frac{5}{2809}\sqrt{3742}e^{34}$	$(\frac{55}{2809}, -\frac{25}{2809}, -\frac{160}{2809}, \frac{110}{2809}, \frac{30}{2809}, -\frac{105}{2809}, \frac{85}{2809}, \frac{85}{2809}, -\frac{50}{2809}) + \frac{30}{2809}\sqrt{91}e^4 \otimes e_8 + \frac{5}{2809}\sqrt{1914}e^2 \otimes e_9$	{128, 2568}
952:52	$0, 0, 0, 0, \frac{1}{193}\sqrt{24738}e^{12}, \frac{1}{193}\sqrt{33782}e^{13}, \frac{6}{193}\sqrt{798}e^{24}, \frac{19}{193}\sqrt{42}e^{15}, \frac{12}{193}\sqrt{133}e^{16} + \frac{38}{193}\sqrt{7}e^{34}$	$(-\frac{21}{193}, \frac{13}{193}, \frac{104}{193}, -\frac{42}{193}, -\frac{8}{193}, \frac{83}{193}, -\frac{29}{193}, -\frac{29}{193}, \frac{62}{193}) + \frac{1}{193}\sqrt{43890}e^3 \otimes e_7$	{1234589, 1467, 234689, 457}
952:52	$0, 0, 0, 0, \frac{3}{37}\sqrt{26}e^{12}, \frac{1}{37}\sqrt{390}e^{13}, \frac{1}{37}\sqrt{282}e^{24}, \frac{1}{37}\sqrt{186}e^{15}, \frac{1}{37}\sqrt{390}e^{16} + \frac{1}{37}\sqrt{390}e^{34}$	$(0, -\frac{3}{37}, \frac{5}{37}, 0, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37}) + \frac{1}{37}\sqrt{138}e^4 \otimes e_8 + \frac{1}{37}\sqrt{330}e^1 \otimes e_7$	{1234589, 124568}
952:52	$0, 0, 0, 0, \frac{8}{373}\sqrt{679}e^{12}, \frac{40}{373}\sqrt{35}e^{13}, \frac{56}{373}\sqrt{3}e^{24}, \frac{4}{373}\sqrt{4074}e^{15}, \frac{40}{373}\sqrt{35}e^{16} + \frac{4}{373}\sqrt{4270}e^{34}$	$(\frac{55}{373}, -\frac{112}{373}, -\frac{15}{373}, \frac{110}{373}, -\frac{57}{373}, \frac{40}{373}, -\frac{2}{373}, -\frac{2}{373}, \frac{95}{373}) + \frac{12}{373}\sqrt{518}e^4 \otimes e_8$	{123689, 128, 23589, 2568}
952:52	$0, 0, 0, 0, \frac{2}{29}\sqrt{115}e^{12}, \frac{2}{29}\sqrt{69}e^{13}, \frac{1}{29}\sqrt{138}e^{24}, \frac{1}{29}\sqrt{138}e^{15}, \frac{2}{29}\sqrt{23}e^{16} + \frac{2}{29}\sqrt{115}e^{34}$	$(-\frac{4}{29}, \frac{16}{29}, \frac{1}{29}, -\frac{8}{29}, \frac{12}{29}, -\frac{3}{29}, \frac{8}{29}, \frac{8}{29}, -\frac{7}{29}) + \frac{4}{29}\sqrt{69}e^2 \otimes e_9$	{123468, 14579, 23458, 4679}
952:52	$0, 0, 0, 0, \frac{2}{17}\sqrt{7}e^{12}, \frac{2}{17}\sqrt{13}e^{13}, \frac{4}{17}\sqrt{3}e^{24}, \frac{2}{17}\sqrt{3}e^{15}, \frac{2}{17}\sqrt{13}e^{16} + \frac{4}{17}\sqrt{3}e^{34}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{1}{17}, \frac{3}{17}) + \frac{2}{17}\sqrt{15}e^1 \otimes e_7$	{1234589, 124568, 345679, 457}
952:52	$0, 0, 0, 0, \frac{12}{193}\sqrt{133}e^{12}, \frac{38}{193}\sqrt{7}e^{13}, \frac{19}{193}\sqrt{42}e^{24}, \frac{6}{193}\sqrt{798}e^{15}, \frac{1}{193}\sqrt{24738}e^{16} + \frac{1}{193}\sqrt{33782}e^{34}$	$(-\frac{21}{193}, \frac{13}{193}, \frac{104}{193}, -\frac{42}{193}, -\frac{8}{193}, \frac{83}{193}, -\frac{29}{193}, -\frac{29}{193}, \frac{62}{193}) + \frac{1}{193}\sqrt{43890}e^3 \otimes e_8$	{128, 135679, 2568, 379}
952:52	$0, 0, 0, 0, \frac{7}{47}\sqrt{10}e^{12}, \frac{7}{47}\sqrt{6}e^{13}, \frac{2}{47}\sqrt{42}e^{24}, \frac{1}{47}\sqrt{462}e^{15}, \frac{1}{47}\sqrt{322}e^{16} + \frac{10}{47}\sqrt{7}e^{34}$	$(-\frac{7}{47}, \frac{13}{47}, \frac{13}{47}, -\frac{14}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{1}{47}, -\frac{1}{47}) + \frac{1}{47}\sqrt{546}e^2 \otimes e_9 - \frac{3}{47}\sqrt{70}e^3 \otimes e_8$	{128, 135679, 2568, 379}
952:52	$0, 0, 0, 0, \frac{7}{47}\sqrt{10}e^{12}, \frac{7}{47}\sqrt{6}e^{13}, \frac{2}{47}\sqrt{42}e^{24}, \frac{1}{47}\sqrt{462}e^{15}, \frac{1}{47}\sqrt{322}e^{16} + \frac{10}{47}\sqrt{7}e^{34}$	$(-\frac{7}{47}, \frac{13}{47}, \frac{13}{47}, -\frac{14}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{1}{47}, -\frac{1}{47}) + \frac{1}{47}\sqrt{546}e^2 \otimes e_9 + \frac{3}{47}\sqrt{70}e^3 \otimes e_8$	{128, 135679, 2568, 379}
952:52	$0, 0, 0, 0, \frac{2}{1121}\sqrt{235}e^{12}, \frac{2}{1121}\sqrt{561}e^{13}, \frac{12}{1121}\sqrt{17}e^{24}, \frac{2}{1121}\sqrt{123}e^{15}, \frac{2}{1121}\sqrt{653}e^{16} + \frac{8}{1121}\sqrt{30}e^{34}$	$(-\frac{11}{1121}, \frac{9}{1121}, \frac{29}{1121}, -\frac{22}{1121}, -\frac{2}{1121}, \frac{18}{1121}, -\frac{13}{1121}, -\frac{13}{1121}, \frac{7}{1121}) + \frac{14}{1121}\sqrt{15}e^1 \otimes e_7 + \frac{4}{1121}\sqrt{69}e^2 \otimes e_9$	{124568, 345679}
952:52	$0, 0, 0, 0, \frac{17}{1381}\sqrt{586}e^{12}, \frac{85}{1381}\sqrt{30}e^{13}, \frac{102}{1381}\sqrt{7}e^{24}, \frac{17}{1381}\sqrt{1254}e^{15}, \frac{170}{1381}\sqrt{10}e^{16} + \frac{34}{1381}\sqrt{355}e^{34}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381}) + \frac{34}{1381}\sqrt{438}e^4 \otimes e_8 + \frac{85}{1381}\sqrt{30}e^3 \otimes e_7$	{1278, 25678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:52	$0, 0, 0, 0, \frac{2}{47}\sqrt{35}e^{12}, \frac{4}{47}\sqrt{21}e^{13}, \frac{1}{47}\sqrt{462}e^{24}, \frac{2}{47}\sqrt{42}e^{15},$ $\frac{2}{47}\sqrt{77}e^{16} + \frac{1}{47}\sqrt{70}e^{34}$	$(-\frac{7}{47}, \frac{13}{47}, \frac{13}{47}, -\frac{14}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{1}{47}, -\frac{1}{47})$ $+\frac{1}{47}\sqrt{546}e^2 \otimes e_9 - \frac{3}{47}\sqrt{70}e^3 \otimes e_7$	{125678, 139, 278, 3569}
952:52	$0, 0, 0, 0, \frac{2}{47}\sqrt{35}e^{12}, \frac{4}{47}\sqrt{21}e^{13}, \frac{1}{47}\sqrt{462}e^{24}, \frac{2}{47}\sqrt{42}e^{15},$ $\frac{2}{47}\sqrt{77}e^{16} + \frac{1}{47}\sqrt{70}e^{34}$	$(-\frac{7}{47}, \frac{13}{47}, \frac{13}{47}, -\frac{14}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{1}{47}, -\frac{1}{47})$ $+\frac{1}{47}\sqrt{546}e^2 \otimes e_9 + \frac{3}{47}\sqrt{70}e^3 \otimes e_7$	{125678, 139, 278, 3569}
952:53	$0, 0, 0, 0, \frac{4}{109}\sqrt{14}e^{12}, \frac{2}{109}\sqrt{70}e^{13}, \frac{2}{109}\sqrt{22}e^{24}, \frac{2}{109}\sqrt{138}e^{25},$ $\frac{4}{109}\sqrt{5}e^{14} + \frac{4}{109}\sqrt{38}e^{36}$	$(-\frac{14}{109}, \frac{6}{109}, \frac{6}{109}, \frac{12}{109}, -\frac{8}{109}, -\frac{8}{109}, \frac{18}{109}, -\frac{2}{109}, -\frac{2}{109})$ $+\frac{28}{109}e^3 \otimes e_8 + \frac{2}{109}\sqrt{190}e^2 \otimes e_9$	{1456789, 23456}
952:53	$0, 0, 0, 0, \frac{92}{3869}\sqrt{93}e^{12}, \frac{92}{3869}\sqrt{227}e^{13}, \frac{23}{3869}\sqrt{4218}e^{24},$ $\frac{23}{3869}\sqrt{834}e^{25}, \frac{23}{3869}\sqrt{2594}e^{14} + \frac{1288}{3869}e^{36}$	$(\frac{621}{3869}, -\frac{552}{3869}, \frac{23}{3869}, \frac{46}{3869}, \frac{69}{3869}, \frac{644}{3869}, -\frac{506}{3869}, -\frac{483}{3869}, \frac{667}{3869})$ $+\frac{23}{3869}\sqrt{6022}e^3 \otimes e_7 + \frac{46}{3869}\sqrt{231}e^4 \otimes e_8$	{2346, 457}
952:53	$0, 0, 0, 0, \frac{4}{55}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{6}{55}\sqrt{5}e^{24}, \frac{1}{55}\sqrt{170}e^{25},$ $\frac{1}{11}\sqrt{6}e^{14} + \frac{6}{55}\sqrt{5}e^{36}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11})$ $+\frac{1}{55}\sqrt{410}e^1 \otimes e_7 - \frac{4}{55}\sqrt{35}e^2 \otimes e_9$	{13589, 15689, 23567, 257}
952:53	$0, 0, 0, 0, \frac{4}{55}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{6}{55}\sqrt{5}e^{24}, \frac{1}{55}\sqrt{170}e^{25},$ $\frac{1}{11}\sqrt{6}e^{14} + \frac{6}{55}\sqrt{5}e^{36}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11})$ $+\frac{1}{55}\sqrt{410}e^1 \otimes e_7 + \frac{4}{55}\sqrt{35}e^2 \otimes e_9$	{13589, 15689, 23567, 257}
952:53	$0, 0, 0, 0, \frac{11}{433}\sqrt{26}e^{12}, \frac{11}{866}\sqrt{1230}e^{13}, \frac{11}{433}\sqrt{102}e^{24}, \frac{11}{866}\sqrt{622}e^{25},$ $\frac{11}{866}\sqrt{330}e^{14} + \frac{11}{433}\sqrt{217}e^{36}$	$(\frac{77}{433}, -\frac{88}{433}, \frac{22}{433}, \frac{44}{433}, -\frac{11}{433}, \frac{99}{433}, -\frac{44}{433}, -\frac{99}{433}, \frac{121}{433})$ $+\frac{11}{433}\sqrt{461}e^3 \otimes e_8 + \frac{11}{866}\sqrt{1190}e^1 \otimes e_7$	{124689, 3467}
952:53	$0, 0, 0, 0, \frac{2}{85}\sqrt{170}e^{12}, \frac{2}{85}\sqrt{305}e^{13}, \frac{2}{85}\sqrt{415}e^{24}, \frac{2}{17}\sqrt{7}e^{25},$ $\frac{16}{85}\sqrt{5}e^{14} + \frac{4}{17}\sqrt{3}e^{36}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{1}{17})$ $-\frac{2}{85}\sqrt{155}e^1 \otimes e_8 + \frac{2}{85}\sqrt{535}e^3 \otimes e_7$	{1234589, 146789, 2346, 457}
952:53	$0, 0, 0, 0, \frac{2}{85}\sqrt{170}e^{12}, \frac{2}{85}\sqrt{305}e^{13}, \frac{2}{85}\sqrt{415}e^{24}, \frac{2}{17}\sqrt{7}e^{25},$ $\frac{16}{85}\sqrt{5}e^{14} + \frac{4}{17}\sqrt{3}e^{36}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{1}{17})$ $+\frac{2}{85}\sqrt{155}e^1 \otimes e_8 + \frac{2}{85}\sqrt{535}e^3 \otimes e_7$	{1234589, 146789, 2346, 457}
952:53	$0, 0, 0, 0, \frac{1}{419}\sqrt{54502}e^{12}, \frac{1}{419}\sqrt{16030}e^{13}, \frac{2}{419}\sqrt{4351}e^{24},$ $\frac{1}{419}\sqrt{58166}e^{25}, \frac{1}{419}\sqrt{27022}e^{14} + \frac{4}{419}\sqrt{3435}e^{36}$	$(-\frac{70}{419}, \frac{135}{419}, -\frac{12}{419}, -\frac{24}{419}, \frac{65}{419}, -\frac{82}{419}, \frac{111}{419}, \frac{200}{419}, -\frac{94}{419})$ $+\frac{2}{419}\sqrt{39617}e^2 \otimes e_9$	{123468, 1248, 3479, 4679}
952:53	$0, 0, 0, 0, \frac{54}{2221}\sqrt{5}e^{12}, \frac{81}{2221}\sqrt{51}e^{13}, \frac{27}{2221}\sqrt{958}e^{24}, \frac{27}{2221}\sqrt{505}e^{25},$ $\frac{54}{2221}\sqrt{3}e^{14} + \frac{54}{2221}\sqrt{51}e^{36}$	$(\frac{459}{2221}, -\frac{486}{2221}, \frac{108}{2221}, \frac{216}{2221}, -\frac{27}{2221}, \frac{567}{2221}, -\frac{270}{2221}, -\frac{513}{2221}, \frac{675}{2221})$ $+\frac{27}{2221}\sqrt{1969}e^1 \otimes e_7 + \frac{27}{2221}\sqrt{2002}e^4 \otimes e_8$	{12345, 12456}
952:53	$0, 0, 0, 0, \frac{3}{287}\sqrt{26}e^{12}, \frac{3}{287}\sqrt{194}e^{13}, \frac{18}{287}\sqrt{7}e^{24}, \frac{3}{287}\sqrt{10}e^{25},$ $\frac{3}{287}\sqrt{146}e^{14} + \frac{12}{287}\sqrt{15}e^{36}$	$(\frac{18}{287}, \frac{3}{287}, -\frac{12}{287}, -\frac{24}{287}, \frac{3}{287}, \frac{6}{287}, -\frac{3}{287}, \frac{24}{287}, -\frac{6}{287})$ $+\frac{12}{287}\sqrt{22}e^3 \otimes e_7 + \frac{6}{287}\sqrt{41}e^2 \otimes e_9$	{146789, 2346}
952:53	$0, 0, 0, 0, \frac{1}{1517}\sqrt{142410}e^{12}, \frac{1}{1517}\sqrt{389630}e^{13}, \frac{4}{1517}\sqrt{26790}e^{24},$ $\frac{1}{1517}\sqrt{117030}e^{25}, \frac{1}{1517}\sqrt{313490}e^{14} + \frac{4}{1517}\sqrt{21385}e^{36}$	$(\frac{306}{1517}, -\frac{195}{1517}, -\frac{40}{1517}, -\frac{80}{1517}, \frac{3}{41}, \frac{266}{1517}, -\frac{275}{1517}, -\frac{84}{1517}, \frac{226}{1517})$ $+\frac{52}{1517}\sqrt{235}e^3 \otimes e_7$	{1234589, 146789, 2346, 457}
952:53	$0, 0, 0, 0, \frac{4}{653}\sqrt{519}e^{12}, \frac{6}{653}\sqrt{5190}e^{13}, \frac{2}{653}\sqrt{2941}e^{24}, \frac{4}{653}\sqrt{9169}e^{25},$ $\frac{2}{653}\sqrt{25085}e^{14} + \frac{2}{653}\sqrt{46018}e^{36}$	$(-\frac{7}{653}, -\frac{111}{653}, \frac{117}{653}, \frac{234}{653}, -\frac{118}{653}, \frac{110}{653}, \frac{123}{653}, -\frac{229}{653}, \frac{227}{653})$ $+\frac{2}{653}\sqrt{94631}e^3 \otimes e_8$	{123459, 13479, 248, 4578}
952:53	$0, 0, 0, 0, \frac{2}{3121}\sqrt{452895}e^{12}, \frac{4}{3121}\sqrt{26315}e^{13}, \frac{2}{3121}\sqrt{695270}e^{24},$ $\frac{6}{3121}\sqrt{134345}e^{25}, \frac{2}{3121}\sqrt{1480565}e^{14} + \frac{10}{3121}\sqrt{10249}e^{36}$	$(-\frac{152}{3121}, -\frac{534}{3121}, \frac{775}{3121}, \frac{1550}{3121}, \frac{686}{3121}, \frac{623}{3121}, \frac{1016}{3121}, -\frac{1220}{3121}, \frac{1398}{3121})$ $+\frac{2}{3121}\sqrt{3610695}e^4 \otimes e_8$	{2378, 2678, 358, 568}
952:53	$0, 0, 0, 0, \frac{17}{2321}\sqrt{514}e^{12}, \frac{17}{2321}\sqrt{391}e^{13}, \frac{17}{2321}\sqrt{541}e^{24},$ $\frac{17}{2321}\sqrt{1367}e^{25}, \frac{17}{2321}\sqrt{1138}e^{14} + \frac{34}{2321}\sqrt{141}e^{36}$	$(-\frac{391}{2321}, \frac{204}{2321}, \frac{153}{2321}, \frac{306}{2321}, -\frac{17}{211}, -\frac{238}{2321}, \frac{510}{2321}, \frac{17}{2321}, -\frac{85}{2321})$ $+\frac{17}{2321}\sqrt{2351}e^2 \otimes e_9 + \frac{34}{2321}\sqrt{453}e^4 \otimes e_8$	{3479, 4679}
952:53	$0, 0, 0, 0, \frac{20}{813}\sqrt{359}e^{12}, \frac{1}{813}\sqrt{297970}e^{13}, \frac{2}{813}\sqrt{77185}e^{24},$ $\frac{1}{271}\sqrt{3590}e^{25}, \frac{1}{813}\sqrt{129958}e^{14} + \frac{2}{813}\sqrt{6821}e^{36}$	$(\frac{415}{813}, -\frac{145}{813}, -\frac{79}{813}, -\frac{158}{813}, \frac{90}{271}, \frac{112}{271}, -\frac{101}{271}, \frac{125}{813}, \frac{257}{813})$ $+\frac{11}{813}\sqrt{7898}e^1 \otimes e_7$	{1359, 1569, 235678, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:54	$0, 0, 0, 0, \frac{20}{653}\sqrt{87}e^{12}, \frac{10}{653}\sqrt{474}e^{13}, \frac{20}{653}\sqrt{194}e^{24}, \frac{30}{653}\sqrt{22}e^{25},$ $\frac{20}{653}\sqrt{15}e^{16} + \frac{10}{653}\sqrt{434}e^{34}$	$(\frac{20}{653}, -\frac{90}{653}, \frac{150}{653}, \frac{40}{653}, -\frac{70}{653}, \frac{170}{653}, -\frac{50}{653}, -\frac{160}{653}, \frac{190}{653})$ $+ \frac{30}{653}\sqrt{138}e^3 \otimes e_7 + \frac{40}{653}\sqrt{69}e^4 \otimes e_8$	{278, 35689}
952:54	$0, 0, 0, 0, \frac{8}{41}\sqrt{13}e^{12}, \frac{4}{41}\sqrt{74}e^{13}, \frac{16}{41}\sqrt{5}e^{24}, \frac{12}{41}\sqrt{2}e^{25},$ $\frac{8}{41}\sqrt{7}e^{16} + \frac{4}{41}\sqrt{6}e^{34}$	$(-\frac{6}{41}, \frac{4}{41}, \frac{24}{41}, -\frac{12}{41}, -\frac{2}{41}, \frac{18}{41}, -\frac{8}{41}, \frac{2}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_7$	{1234589, 14678, 23469, 457}
952:54	$0, 0, 0, 0, \frac{2}{43}\sqrt{187}e^{12}, \frac{6}{43}\sqrt{11}e^{13}, \frac{2}{43}\sqrt{22}e^{24}, \frac{2}{43}\sqrt{165}e^{25},$ $\frac{2}{43}\sqrt{33}e^{16} + \frac{2}{43}\sqrt{187}e^{34}$	$(-\frac{4}{43}, \frac{13}{43}, -\frac{1}{43}, -\frac{8}{43}, \frac{9}{43}, -\frac{5}{43}, \frac{5}{43}, \frac{22}{43}, -\frac{9}{43})$ $+ \frac{12}{43}\sqrt{11}e^2 \otimes e_9$	{1234678, 14589, 23457, 469}
952:54	$0, 0, 0, 0, \frac{32}{461}e^{12}, \frac{2}{461}\sqrt{403}e^{13}, \frac{2}{461}\sqrt{521}e^{24}, \frac{6}{461}\sqrt{23}e^{25},$ $\frac{4}{461}\sqrt{113}e^{16} + \frac{4}{461}\sqrt{123}e^{34}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, -\frac{13}{461}, \frac{7}{461})$ $+ \frac{14}{461}\sqrt{3}e^3 \otimes e_8 + \frac{2}{461}\sqrt{561}e^1 \otimes e_7$	{1234589, 457}
952:54	$0, 0, 0, 0, \frac{1}{331}\sqrt{21526}e^{12}, \frac{4}{331}\sqrt{1374}e^{13}, \frac{2}{331}\sqrt{10534}e^{24},$ $\frac{1}{331}\sqrt{64578}e^{25}, \frac{3}{331}\sqrt{2290}e^{16} + \frac{2}{331}\sqrt{16030}e^{34}$	$(\frac{2}{331}, -\frac{44}{331}, \frac{143}{331}, \frac{4}{331}, -\frac{42}{331}, \frac{145}{331}, -\frac{40}{331}, -\frac{86}{331}, \frac{147}{331})$ $+ \frac{3}{331}\sqrt{14198}e^3 \otimes e_8$	{1246789, 145689, 234567, 346}
952:54	$0, 0, 0, 0, \frac{2}{133}\sqrt{13}e^{12}, \frac{3}{133}\sqrt{14}e^{13}, \frac{2}{133}\sqrt{38}e^{24}, \frac{2}{133}\sqrt{6}e^{25},$ $\frac{12}{133}e^{16} + \frac{1}{133}\sqrt{114}e^{34}$	$(-\frac{3}{133}, \frac{2}{133}, \frac{1}{19}, -\frac{6}{133}, -\frac{1}{133}, \frac{4}{133}, -\frac{4}{133}, \frac{1}{133}, \frac{1}{133})$ $+ \frac{1}{133}\sqrt{186}e^1 \otimes e_7 + \frac{3}{133}\sqrt{6}e^2 \otimes e_9$	{124568, 345679}
952:54	$0, 0, 0, 0, \frac{1}{65}\sqrt{190}e^{12}, \frac{3}{65}\sqrt{5}e^{13}, \frac{1}{65}\sqrt{115}e^{24}, \frac{1}{65}\sqrt{255}e^{25},$ $\frac{1}{65}\sqrt{30}e^{16} + \frac{2}{65}\sqrt{70}e^{34}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+ \frac{3}{65}\sqrt{30}e^3 \otimes e_8 + \frac{3}{65}\sqrt{35}e^2 \otimes e_9$	{128, 379}
952:54	$0, 0, 0, 0, \frac{2}{317}\sqrt{1003}e^{12}, \frac{12}{317}\sqrt{51}e^{13}, \frac{1}{317}\sqrt{8126}e^{24}, \frac{1}{317}\sqrt{2346}e^{25},$ $\frac{12}{317}\sqrt{51}e^{16} + \frac{1}{317}\sqrt{7242}e^{34}$	$(\frac{3}{317}, -\frac{20}{317}, \frac{29}{317}, \frac{6}{317}, -\frac{17}{317}, \frac{32}{317}, -\frac{14}{317}, -\frac{37}{317}, \frac{35}{317})$ $+ \frac{1}{317}\sqrt{9690}e^1 \otimes e_7$	{1234589, 124568, 345679, 457}
952:54	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{2}{29}\sqrt{6}e^{13}, \frac{4}{29}\sqrt{5}e^{24}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{26}e^{34}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $- \frac{2}{29}\sqrt{42}e^3 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{12678, 13589, 257, 369}
952:54	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{2}{29}\sqrt{6}e^{13}, \frac{4}{29}\sqrt{5}e^{24}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{26}e^{34}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{12678, 13589, 257, 369}
952:54	$0, 0, 0, 0, \frac{6}{583}\sqrt{366}e^{12}, \frac{18}{583}\sqrt{74}e^{13}, \frac{3}{583}\sqrt{2874}e^{24}, \frac{3}{583}\sqrt{942}e^{25},$ $\frac{18}{583}\sqrt{74}e^{16} + \frac{9}{583}\sqrt{302}e^{34}$	$(-\frac{9}{583}, -\frac{18}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{27}{583}, \frac{60}{583}, -\frac{36}{583}, -\frac{45}{583}, \frac{51}{583})$ $+ \frac{15}{583}\sqrt{138}e^1 \otimes e_7 + \frac{6}{583}\sqrt{78}e^4 \otimes e_8$	{1234589, 124568}
952:54	$0, 0, 0, 0, \frac{2}{29}\sqrt{39}e^{12}, \frac{2}{29}\sqrt{39}e^{13}, \frac{2}{29}\sqrt{26}e^{24}, \frac{6}{29}\sqrt{13}e^{25},$ $\frac{2}{29}\sqrt{39}e^{16} + \frac{2}{29}\sqrt{143}e^{34}$	$(\frac{8}{29}, -\frac{9}{29}, -\frac{3}{29}, \frac{16}{29}, -\frac{1}{29}, \frac{5}{29}, \frac{7}{29}, -\frac{10}{29}, \frac{13}{29})$ $+ \frac{4}{29}\sqrt{78}e^4 \otimes e_8$	{1236789, 1278, 135689, 158}
952:54	$0, 0, 0, 0, \frac{1}{50}\sqrt{57}e^{12}, \frac{9}{100}\sqrt{2}e^{13}, \frac{1}{100}\sqrt{10}e^{24}, \frac{3}{100}\sqrt{30}e^{25},$ $\frac{1}{50}\sqrt{6}e^{16} + \frac{1}{50}\sqrt{83}e^{34}$	$(\frac{1}{25}, 0, -\frac{3}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{1}{25})$ $+ \frac{1}{50}\sqrt{78}e^4 \otimes e_8 + \frac{3}{100}\sqrt{46}e^2 \otimes e_9$	{128, 1356789}
952:54	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{46}e^{13}, \frac{4}{29}\sqrt{5}e^{24}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{8}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{14}e^{34}$	$(\frac{1}{29}, -\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{7}{29}, -\frac{2}{29}, -\frac{7}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_7 + \frac{4}{29}\sqrt{15}e^1 \otimes e_8$	{123459, 1467, 234689, 4578}
952:54	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{46}e^{13}, \frac{4}{29}\sqrt{5}e^{24}, \frac{6}{29}\sqrt{2}e^{25},$ $\frac{8}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{14}e^{34}$	$(\frac{1}{29}, -\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{7}{29}, -\frac{2}{29}, -\frac{7}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_7 - \frac{4}{29}\sqrt{15}e^1 \otimes e_8$	{123459, 1467, 234689, 4578}
952:55	$0, 0, 0, 0, \frac{5}{311}\sqrt{166}e^{12}, \frac{20}{311}\sqrt{6}e^{13}, \frac{25}{311}\sqrt{10}e^{34}, \frac{20}{311}\sqrt{15}e^{15},$ $\frac{5}{311}\sqrt{2}e^{16} + \frac{20}{311}\sqrt{2}e^{24}$	$(\frac{30}{311}, -\frac{35}{311}, -\frac{45}{311}, \frac{50}{311}, -\frac{5}{311}, -\frac{15}{311}, \frac{5}{311}, \frac{25}{311}, \frac{15}{311})$ $+ \frac{20}{311}\sqrt{19}e^1 \otimes e_7 + \frac{5}{311}\sqrt{254}e^4 \otimes e_8$	{128, 467}
952:55	$0, 0, 0, 0, \frac{3}{1153}\sqrt{25190}e^{12}, \frac{4}{1153}\sqrt{28167}e^{13}, \frac{1}{1153}\sqrt{542730}e^{34},$ $\frac{4}{1153}\sqrt{50838}e^{15}, \frac{1}{1153}\sqrt{405330}e^{16} + \frac{1}{1153}\sqrt{25419}e^{24}$	$(\frac{34}{1153}, -\frac{293}{1153}, \frac{101}{1153}, \frac{462}{1153}, -\frac{259}{1153}, \frac{135}{1153}, \frac{563}{1153}, -\frac{225}{1153}, \frac{169}{1153})$ $+ \frac{1}{1153}\sqrt{1353390}e^4 \otimes e_8$	{1236789, 134569, 235789, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:55	$0, 0, 0, 0, \frac{3}{457}\sqrt{219}e^{12}, \frac{9}{914}\sqrt{10}e^{13}, \frac{33}{457}\sqrt{3}e^{34}, \frac{69}{914}\sqrt{2}e^{15},$ $\frac{21}{457}\sqrt{2}e^{16} + \frac{3}{914}\sqrt{790}e^{24}$	$(-\frac{12}{457}, \frac{33}{457}, \frac{18}{457}, -\frac{39}{457}, \frac{21}{457}, \frac{6}{457}, -\frac{21}{457}, \frac{9}{457}, -\frac{6}{457})$ $+\frac{3}{457}\sqrt{334}e^3 \otimes e_8 + \frac{3}{914}\sqrt{1970}e^1 \otimes e_7$	{1268, 3679}
952:55	$0, 0, 0, 0, \frac{8}{151}\sqrt{110}e^{12}, \frac{8}{151}\sqrt{7}e^{13}, \frac{16}{151}\sqrt{33}e^{34}, \frac{72}{151}e^{15},$ $\frac{8}{151}\sqrt{66}e^{16} + \frac{8}{151}\sqrt{87}e^{24}$	$(\frac{26}{151}, \frac{12}{151}, -\frac{39}{151}, \frac{1}{151}, \frac{38}{151}, -\frac{13}{151}, -\frac{38}{151}, \frac{64}{151}, \frac{13}{151})$ $+\frac{8}{151}\sqrt{255}e^1 \otimes e_7$	{13456, 159, 23578, 2456789}
952:55	$0, 0, 0, 0, \frac{2}{159}\sqrt{651}e^{12}, \frac{10}{477}\sqrt{434}e^{13}, \frac{10}{477}\sqrt{1302}e^{34}, \frac{10}{477}\sqrt{1302}e^{15},$ $\frac{2}{477}\sqrt{4991}e^{16} + \frac{2}{477}\sqrt{4991}e^{24}$	$(-\frac{119}{477}, \frac{9}{53}, \frac{277}{477}, -\frac{14}{159}, \frac{38}{477}, \frac{158}{477}, \frac{235}{477}, -\frac{157}{477}, \frac{13}{159})$ $+\frac{28}{477}\sqrt{434}e^3 \otimes e_8$	{1246789, 1345, 245789, 346}
952:56	$0, 0, 0, 0, \frac{7}{36}e^{12}, \frac{7}{72}\sqrt{30}e^{13}, \frac{35}{72}\sqrt{2}e^{34}, \frac{7}{36}\sqrt{15}e^{25},$ $\frac{7}{72}\sqrt{19}e^{16} + \frac{7}{12}e^{24}$	$(-\frac{7}{36}, -\frac{1}{48}, \frac{4}{9}, \frac{11}{144}, -\frac{31}{144}, \frac{1}{4}, \frac{25}{48}, -\frac{17}{72}, \frac{1}{18})$ $+\frac{7}{72}\sqrt{119}e^3 \otimes e_8$	{1268, 145678, 234569, 3679}
952:56	$0, 0, 0, 0, \frac{3}{56}\sqrt{15}e^{12}, \frac{3}{56}\sqrt{3}e^{13}, \frac{9}{112}\sqrt{10}e^{34}, \frac{3}{112}\sqrt{86}e^{25},$ $\frac{3}{112}e^{16} + \frac{3}{112}\sqrt{34}e^{24}$	$(-\frac{3}{28}, \frac{3}{32}, \frac{9}{56}, -\frac{33}{224}, -\frac{3}{224}, \frac{3}{56}, \frac{3}{224}, \frac{9}{112}, -\frac{3}{56})$ $+\frac{3}{112}\sqrt{110}e^2 \otimes e_7 + \frac{3}{112}\sqrt{91}e^3 \otimes e_8$	{128, 14578, 23459, 379}
952:56	$0, 0, 0, 0, \frac{3}{56}\sqrt{15}e^{12}, \frac{3}{56}\sqrt{3}e^{13}, \frac{9}{112}\sqrt{10}e^{34}, \frac{3}{112}\sqrt{86}e^{25},$ $\frac{3}{112}e^{16} + \frac{3}{112}\sqrt{34}e^{24}$	$(-\frac{3}{28}, \frac{3}{32}, \frac{9}{56}, -\frac{33}{224}, -\frac{3}{224}, \frac{3}{56}, \frac{3}{224}, \frac{9}{112}, -\frac{3}{56})$ $-\frac{3}{112}\sqrt{110}e^2 \otimes e_7 + \frac{3}{112}\sqrt{91}e^3 \otimes e_8$	{128, 14578, 23459, 379}
952:56	$0, 0, 0, 0, \frac{36}{175}\sqrt{11}e^{12}, \frac{2}{175}\sqrt{1914}e^{13}, \frac{8}{175}\sqrt{209}e^{34}, \frac{2}{175}\sqrt{2706}e^{25},$ $\frac{4}{175}\sqrt{165}e^{16} + \frac{2}{175}\sqrt{418}e^{24}$	$(\frac{4}{175}, \frac{6}{25}, -\frac{6}{175}, -\frac{8}{35}, \frac{46}{175}, -\frac{2}{175}, -\frac{46}{175}, \frac{88}{175}, \frac{2}{175})$ $+\frac{66}{175}\sqrt{6}e^2 \otimes e_7$	{1234689, 128, 1356789, 14578, 23459, 256, 379, 467}
952:56	$0, 0, 0, 0, \frac{36}{175}\sqrt{11}e^{12}, \frac{2}{175}\sqrt{1914}e^{13}, \frac{8}{175}\sqrt{209}e^{34}, \frac{2}{175}\sqrt{2706}e^{25},$ $\frac{4}{175}\sqrt{165}e^{16} + \frac{2}{175}\sqrt{418}e^{24}$	$(\frac{4}{175}, \frac{6}{25}, -\frac{6}{175}, -\frac{8}{35}, \frac{46}{175}, -\frac{2}{175}, -\frac{46}{175}, \frac{88}{175}, \frac{2}{175})$ $-\frac{66}{175}\sqrt{6}e^2 \otimes e_7$	{1234689, 128, 1356789, 14578, 23459, 256, 379, 467}
952:56	$0, 0, 0, 0, \frac{14}{1383}\sqrt{15}e^{12}, \frac{28}{1383}\sqrt{3}e^{13}, \frac{10}{1383}\sqrt{66}e^{34}, \frac{28}{1383}\sqrt{6}e^{25},$ $\frac{14}{1383}\sqrt{21}e^{16} + \frac{2}{1383}\sqrt{1389}e^{24}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, -\frac{13}{461}, \frac{7}{461})$ $+\frac{2}{1383}\sqrt{2010}e^1 \otimes e_7 + \frac{4}{1383}\sqrt{429}e^3 \otimes e_8$	{1268, 3679}
952:56	$0, 0, 0, 0, \frac{80}{3179}\sqrt{163}e^{12}, \frac{40}{3179}\sqrt{78}e^{13}, \frac{40}{3179}\sqrt{1235}e^{34},$ $\frac{40}{3179}\sqrt{685}e^{25}, \frac{40}{3179}\sqrt{691}e^{16} + \frac{80}{3179}\sqrt{151}e^{24}$	$(\frac{700}{3179}, -\frac{20}{187}, -\frac{920}{3179}, \frac{820}{3179}, \frac{360}{3179}, -\frac{20}{289}, -\frac{100}{3179}, \frac{20}{3179}, \frac{480}{3179})$ $+\frac{920}{3179}\sqrt{2}e^4 \otimes e_8 + \frac{960}{3179}\sqrt{3}e^1 \otimes e_7$	{1268, 47}
952:56	$0, 0, 0, 0, \frac{2}{723}\sqrt{39917}e^{12}, \frac{16}{723}\sqrt{179}e^{13}, \frac{4}{723}\sqrt{13783}e^{34}, \frac{16}{723}\sqrt{358}e^{25},$ $\frac{2}{723}\sqrt{45645}e^{16} + \frac{2}{723}\sqrt{47435}e^{24}$	$(\frac{181}{723}, \frac{11}{241}, -\frac{253}{723}, \frac{76}{723}, \frac{214}{723}, -\frac{24}{241}, -\frac{59}{241}, \frac{247}{723}, \frac{109}{723})$ $+\frac{4}{723}\sqrt{27029}e^1 \otimes e_7$	{123489, 1268, 3679, 47}
952:56	$0, 0, 0, 0, \frac{16}{105}\sqrt{3}e^{12}, \frac{8}{35}\sqrt{2}e^{13}, \frac{8}{35}\sqrt{11}e^{34}, \frac{8}{105}\sqrt{93}e^{25},$ $\frac{8}{105}\sqrt{3}e^{16} + \frac{16}{35}e^{24}$	$(\frac{4}{21}, -\frac{4}{15}, -\frac{8}{105}, \frac{4}{7}, -\frac{8}{105}, \frac{4}{35}, \frac{52}{105}, -\frac{12}{35}, \frac{32}{105})$ $+\frac{8}{105}\sqrt{258}e^4 \otimes e_8$	{1289, 135678, 2345, 4679}
952:57	$0, 0, 0, 0, \frac{60}{2519}\sqrt{221}e^{12}, \frac{60}{2519}\sqrt{782}e^{13}, \frac{60}{2519}\sqrt{1069}e^{34},$ $\frac{60}{2519}\sqrt{937}e^{15}, \frac{420}{2519}\sqrt{10}e^{14} + \frac{360}{2519}\sqrt{11}e^{36}$	$(-\frac{45}{229}, \frac{150}{2519}, \frac{480}{2519}, \frac{960}{2519}, -\frac{345}{2519}, -\frac{15}{2519}, \frac{1440}{2519}, -\frac{840}{2519}, \frac{465}{2519})$ $+\frac{120}{2519}\sqrt{537}e^4 \otimes e_8$	{1236789, 1289, 23578, 2568}
952:57	$0, 0, 0, 0, \frac{9}{1243}\sqrt{5010}e^{12}, \frac{90}{1243}\sqrt{105}e^{13}, \frac{117}{1243}\sqrt{30}e^{34},$ $\frac{18}{1243}\sqrt{1365}e^{15}, \frac{9}{1243}\sqrt{10410}e^{14} + \frac{54}{1243}\sqrt{5}e^{36}$	$(\frac{531}{1243}, -\frac{684}{1243}, \frac{9}{1243}, \frac{18}{1243}, -\frac{153}{1243}, \frac{540}{1243}, \frac{27}{1243}, \frac{378}{1243}, \frac{549}{1243})$ $+\frac{27}{1243}\sqrt{3490}e^1 \otimes e_2$	{1389, 16789, 236, 27}
952:57	$0, 0, 0, 0, \frac{1}{29}\sqrt{51}e^{12}, \frac{1}{29}\sqrt{3}e^{13}, \frac{1}{29}\sqrt{69}e^{34}, \frac{1}{29}\sqrt{57}e^{15},$ $\frac{3}{29}\sqrt{7}e^{14} + \frac{1}{29}\sqrt{33}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{3}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{1}{29}\sqrt{69}e^2 \otimes e_7 - \frac{1}{29}\sqrt{87}e^3 \otimes e_8$	{128, 13567, 25689, 379}
952:57	$0, 0, 0, 0, \frac{1}{29}\sqrt{51}e^{12}, \frac{1}{29}\sqrt{3}e^{13}, \frac{1}{29}\sqrt{69}e^{34}, \frac{1}{29}\sqrt{57}e^{15},$ $\frac{3}{29}\sqrt{7}e^{14} + \frac{1}{29}\sqrt{33}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{3}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{1}{29}\sqrt{69}e^2 \otimes e_7 + \frac{1}{29}\sqrt{87}e^3 \otimes e_8$	{128, 13567, 25689, 379}
952:57	$0, 0, 0, 0, \frac{18}{1231}\sqrt{110}e^{12}, \frac{90}{1231}\sqrt{7}e^{13}, \frac{18}{1231}\sqrt{530}e^{34}, \frac{9}{1231}\sqrt{3290}e^{15},$ $\frac{18}{1231}\sqrt{785}e^{14} + \frac{18}{1231}\sqrt{345}e^{36}$	$(\frac{72}{1231}, -\frac{333}{1231}, \frac{108}{1231}, \frac{216}{1231}, -\frac{261}{1231}, \frac{180}{1231}, \frac{324}{1231}, -\frac{189}{1231}, \frac{288}{1231})$ $+\frac{270}{1231}\sqrt{7}e^4 \otimes e_8 + \frac{9}{1231}\sqrt{4890}e^1 \otimes e_2$	{136789, 189}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:57	$0, 0, 0, 0, \frac{6}{319}\sqrt{1909}e^{12}, \frac{3}{319}\sqrt{4255}e^{13}, \frac{6}{319}\sqrt{1955}e^{34}, \frac{3}{319}\sqrt{3473}e^{15},$ $\frac{3}{319}\sqrt{3979}e^{14} + \frac{6}{319}\sqrt{138}e^{36}$	$(-\frac{15}{319}, \frac{153}{319}, -\frac{18}{319}, -\frac{36}{319}, \frac{138}{319}, -\frac{3}{29}, -\frac{54}{319}, \frac{123}{319}, -\frac{51}{319})$ $+ \frac{3}{319}\sqrt{12489}e^2 \otimes e_7$	{1234689, 14579, 23458, 467}
952:57	$0, 0, 0, 0, \frac{9}{293}\sqrt{103}e^{12}, \frac{9}{293}\sqrt{62}e^{13}, \frac{9}{293}\sqrt{89}e^{34}, \frac{9}{293}\sqrt{158}e^{15},$ $\frac{18}{293}\sqrt{31}e^{14} + \frac{27}{293}\sqrt{23}e^{36}$	$(-\frac{63}{293}, \frac{72}{293}, \frac{27}{293}, \frac{54}{293}, \frac{9}{293}, -\frac{36}{293}, \frac{81}{293}, -\frac{54}{293}, -\frac{9}{293})$ $+ \frac{9}{293}\sqrt{174}e^2 \otimes e_9 + \frac{9}{293}\sqrt{339}e^3 \otimes e_8$	{13459, 24578}
952:57	$0, 0, 0, 0, \frac{24}{167}\sqrt{5}e^{12}, \frac{12}{167}\sqrt{34}e^{13}, \frac{12}{167}\sqrt{46}e^{34}, \frac{12}{167}\sqrt{67}e^{15},$ $\frac{24}{167}\sqrt{17}e^{14} + \frac{36}{167}\sqrt{7}e^{36}$	$(-\frac{27}{167}, \frac{6}{167}, \frac{24}{167}, \frac{48}{167}, -\frac{21}{167}, -\frac{3}{167}, \frac{72}{167}, -\frac{48}{167}, \frac{21}{167})$ $+ \frac{12}{167}\sqrt{141}e^3 \otimes e_8$	{1246789, 13459, 24578, 346}
952:57	$0, 0, 0, 0, \frac{60}{547}\sqrt{7}e^{12}, \frac{15}{547}\sqrt{119}e^{13}, \frac{20}{547}\sqrt{102}e^{34}, \frac{15}{547}\sqrt{109}e^{15},$ $\frac{15}{547}\sqrt{15}e^{14} + \frac{10}{547}\sqrt{102}e^{36}$	$(-\frac{85}{547}, \frac{135}{547}, \frac{20}{547}, \frac{40}{547}, \frac{50}{547}, -\frac{65}{547}, \frac{60}{547}, -\frac{35}{547}, -\frac{45}{547})$ $+ \frac{10}{547}\sqrt{366}e^4 \otimes e_8 + \frac{5}{547}\sqrt{1545}e^2 \otimes e_7$	{14579, 467}
952:57	$0, 0, 0, 0, \frac{20}{197}\sqrt{13}e^{12}, \frac{5}{197}\sqrt{266}e^{13}, \frac{10}{197}\sqrt{58}e^{34}, \frac{5}{197}\sqrt{246}e^{15},$ $\frac{20}{197}\sqrt{15}e^{14} + \frac{5}{197}\sqrt{42}e^{36}$	$(-\frac{50}{197}, \frac{65}{197}, \frac{20}{197}, \frac{40}{197}, \frac{15}{197}, -\frac{30}{197}, \frac{60}{197}, -\frac{35}{197}, -\frac{10}{197})$ $+ \frac{10}{197}\sqrt{146}e^4 \otimes e_8 + \frac{5}{197}\sqrt{470}e^2 \otimes e_9$	{349, 4679}
952:57	$0, 0, 0, 0, \frac{6}{1297}\sqrt{25019}e^{12}, \frac{3}{1297}\sqrt{29210}e^{13}, \frac{6}{1297}\sqrt{5969}e^{34},$ $\frac{3}{1297}\sqrt{8890}e^{15}, \frac{6}{1297}\sqrt{14605}e^{14} + \frac{9}{1297}\sqrt{10922}e^{36}$	$(-\frac{324}{1297}, \frac{903}{1297}, \frac{42}{1297}, \frac{84}{1297}, \frac{579}{1297}, -\frac{282}{1297}, \frac{126}{1297}, \frac{255}{1297}, -\frac{240}{1297})$ $+ \frac{3}{1297}\sqrt{273558}e^2 \otimes e_9$	{1234678, 1248, 3479, 469}
952:57	$0, 0, 0, 0, \frac{9}{341}\sqrt{10}e^{12}, \frac{18}{341}\sqrt{41}e^{13}, \frac{9}{341}\sqrt{86}e^{34}, \frac{18}{341}\sqrt{53}e^{15},$ $\frac{9}{341}\sqrt{118}e^{14} + \frac{18}{341}\sqrt{42}e^{36}$	$(\frac{9}{341}, -\frac{72}{341}, \frac{27}{341}, \frac{54}{341}, -\frac{63}{341}, \frac{36}{341}, \frac{81}{341}, -\frac{54}{341}, \frac{63}{341})$ $+ \frac{54}{341}\sqrt{11}e^3 \otimes e_8 + \frac{9}{341}\sqrt{210}e^1 \otimes e_2$	{13459, 24578}
952:57	$0, 0, 0, 0, \frac{3}{1613}\sqrt{3230}e^{12}, \frac{3}{1613}\sqrt{2810}e^{13}, \frac{3}{1613}\sqrt{6430}e^{34},$ $\frac{15}{1613}\sqrt{226}e^{15}, \frac{3}{1613}\sqrt{1990}e^{14} + \frac{18}{1613}\sqrt{65}e^{36}$	$(\frac{81}{1613}, -\frac{183}{1613}, \frac{12}{1613}, \frac{24}{1613}, -\frac{102}{1613}, \frac{93}{1613}, \frac{36}{1613}, -\frac{21}{1613}, \frac{105}{1613})$ $+ \frac{66}{1613}\sqrt{15}e^4 \otimes e_8 + \frac{9}{1613}\sqrt{830}e^1 \otimes e_7$	{1289, 23578}
952:57	$0, 0, 0, 0, \frac{12}{427}\sqrt{11}e^{12}, \frac{3}{427}\sqrt{94}e^{13}, \frac{6}{427}\sqrt{67}e^{34}, \frac{6}{427}\sqrt{79}e^{15},$ $\frac{6}{427}\sqrt{47}e^{14} + \frac{36}{427}e^{36}$	$(\frac{18}{427}, -\frac{6}{61}, \frac{3}{427}, \frac{6}{427}, -\frac{24}{427}, \frac{3}{427}, \frac{9}{427}, -\frac{6}{427}, \frac{24}{427})$ $+ \frac{6}{427}\sqrt{105}e^3 \otimes e_8 + \frac{9}{427}\sqrt{38}e^1 \otimes e_7$	{13459, 24578}
952:57	$0, 0, 0, 0, \frac{6}{91}\sqrt{95}e^{12}, \frac{1}{91}\sqrt{114}e^{13}, \frac{8}{91}\sqrt{57}e^{34}, \frac{6}{91}\sqrt{95}e^{15},$ $\frac{2}{91}\sqrt{57}e^{14} + \frac{6}{91}\sqrt{19}e^{36}$	$(\frac{30}{91}, -\frac{2}{13}, -\frac{9}{91}, -\frac{18}{91}, \frac{16}{91}, \frac{3}{13}, -\frac{27}{91}, \frac{46}{91}, \frac{12}{91})$ $+ \frac{15}{91}\sqrt{38}e^1 \otimes e_7$	{1289, 159, 23578, 37}
952:57	$0, 0, 0, 0, \frac{42}{3221}\sqrt{1019}e^{12}, \frac{84}{3221}\sqrt{41}e^{13}, \frac{42}{3221}\sqrt{517}e^{34},$ $\frac{84}{3221}\sqrt{151}e^{15}, \frac{84}{3221}\sqrt{82}e^{14} + \frac{126}{3221}\sqrt{29}e^{36}$	$(\frac{189}{3221}, \frac{609}{3221}, -\frac{231}{3221}, -\frac{462}{3221}, \frac{798}{3221}, -\frac{42}{3221}, -\frac{693}{3221}, \frac{987}{3221}, -\frac{273}{3221})$ $+ \frac{126}{3221}\sqrt{177}e^1 \otimes e_7 + \frac{42}{3221}\sqrt{1245}e^2 \otimes e_9$	{123468, 4679}
952:58	$0, 0, 0, 0, \frac{8}{1401}\sqrt{18139}e^{12}, \frac{22}{1401}\sqrt{1649}e^{13}, \frac{2}{1401}\sqrt{321167}e^{34},$ $\frac{1}{1401}\sqrt{424666}e^{15}, \frac{11}{1401}\sqrt{2522}e^{24} + \frac{1}{1401}\sqrt{92829}e^{36}$	$(-\frac{146}{1401}, \frac{238}{467}, \frac{169}{1401}, -\frac{174}{467}, \frac{568}{1401}, \frac{23}{1401}, -\frac{353}{1401}, \frac{422}{1401}, \frac{64}{467})$ $+ \frac{2}{1401}\sqrt{628463}e^2 \otimes e_7$	{1289, 14579, 23458, 37}
952:58	$0, 0, 0, 0, \frac{1}{367}\sqrt{10626}e^{12}, \frac{2}{367}\sqrt{6578}e^{13}, \frac{1}{367}\sqrt{43010}e^{34},$ $\frac{1}{367}\sqrt{53130}e^{15}, \frac{1}{367}\sqrt{25806}e^{24} + \frac{1}{367}\sqrt{56166}e^{36}$	$(-\frac{114}{367}, \frac{94}{367}, \frac{119}{367}, \frac{30}{367}, -\frac{20}{367}, \frac{5}{367}, \frac{149}{367}, -\frac{134}{367}, \frac{124}{367})$ $+ \frac{1}{367}\sqrt{153318}e^3 \otimes e_8$	{1246789, 13579, 258, 346}
952:58	$0, 0, 0, 0, \frac{1}{33}\sqrt{154}e^{12}, \frac{2}{33}\sqrt{11}e^{13}, \frac{1}{33}\sqrt{2}e^{34}, \frac{1}{33}\sqrt{154}e^{15},$ $\frac{1}{33}\sqrt{22}e^{24} + \frac{1}{33}\sqrt{66}e^{36}$	$(-\frac{8}{33}, \frac{4}{11}, \frac{7}{33}, -\frac{2}{11}, \frac{4}{33}, -\frac{1}{33}, \frac{1}{33}, -\frac{4}{33}, \frac{2}{11})$ $+ \frac{1}{33}\sqrt{330}e^3 \otimes e_8 + \frac{2}{33}\sqrt{77}e^2 \otimes e_7$	{128, 379}
952:58	$0, 0, 0, 0, \frac{1}{181}\sqrt{14946}e^{12}, \frac{1}{181}\sqrt{2773}e^{13}, \frac{1}{181}\sqrt{15134}e^{34}, \frac{3}{181}\sqrt{1363}e^{15},$ $\frac{3}{181}\sqrt{893}e^{24} + \frac{2}{181}\sqrt{141}e^{36}$	$(\frac{51}{181}, -\frac{8}{181}, -\frac{34}{181}, -\frac{9}{181}, \frac{43}{181}, \frac{17}{181}, -\frac{43}{181}, \frac{94}{181}, -\frac{17}{181})$ $+ \frac{1}{181}\sqrt{28623}e^1 \otimes e_7$	{1234689, 159, 23578, 467}
952:58	$0, 0, 0, 0, \frac{75}{8401}\sqrt{382}e^{12}, \frac{75}{8401}\sqrt{514}e^{13}, \frac{25}{8401}\sqrt{7102}e^{34},$ $\frac{25}{8401}\sqrt{4666}e^{15}, \frac{25}{8401}\sqrt{3070}e^{24} + \frac{50}{8401}\sqrt{737}e^{36}$	$(-\frac{1075}{8401}, \frac{1125}{8401}, \frac{900}{8401}, -\frac{400}{8401}, \frac{50}{8401}, -\frac{175}{8401}, \frac{500}{8401}, -\frac{1025}{8401}, \frac{725}{8401})$ $+ \frac{25}{8401}\sqrt{7430}e^2 \otimes e_7 + \frac{50}{8401}\sqrt{2011}e^4 \otimes e_8$	{1289, 14579}
952:58	$0, 0, 0, 0, \frac{10}{557}\sqrt{185}e^{12}, \frac{2}{557}\sqrt{23495}e^{13}, \frac{4}{557}\sqrt{9805}e^{34}, \frac{4}{557}\sqrt{10545}e^{15},$ $\frac{4}{557}\sqrt{6290}e^{24} + \frac{4}{557}\sqrt{4070}e^{36}$	$(-\frac{42}{557}, -\frac{77}{557}, \frac{87}{557}, \frac{209}{557}, -\frac{119}{557}, \frac{45}{557}, \frac{296}{557}, -\frac{161}{557}, \frac{132}{557})$ $+ \frac{2}{557}\sqrt{87505}e^4 \otimes e_8$	{1236789, 1289, 134569, 14579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:58	$0, 0, 0, 0, \frac{5}{461}\sqrt{233e^{12}}, \frac{5}{922}\sqrt{614e^{13}}, \frac{5}{461}\sqrt{397e^{34}}, \frac{5}{922}\sqrt{1434e^{15}},$ $\frac{5}{922}\sqrt{70e^{24}} + \frac{35}{461}\sqrt{2e^{36}}$	$(\frac{45}{461}, -\frac{65}{461}, -\frac{30}{461}, \frac{50}{461}, -\frac{20}{461}, \frac{15}{461}, \frac{20}{461}, \frac{25}{461}, -\frac{15}{461})$ $+ \frac{5}{461}\sqrt{394e^4} \otimes e_8 + \frac{5}{922}\sqrt{1770e^1} \otimes e_7$	{23578, 467}
952:59	$0, 0, 0, 0, \frac{1}{2987}\sqrt{502e^{12}}, \frac{1}{2987}\sqrt{438e^{13}}, \frac{1}{8961}\sqrt{7782e^{34}}, \frac{1}{8961}\sqrt{5974e^{25}},$ $\frac{1}{2987}\sqrt{106e^{14}} + \frac{1}{8961}\sqrt{609e^{36}}$	$(-\frac{17}{2987}, \frac{37}{8961}, \frac{4}{2987}, \frac{8}{2987}, -\frac{14}{8961}, -\frac{13}{2987}, \frac{12}{2987}, \frac{23}{8961}, -\frac{9}{2987})$ $+ \frac{1}{8961}\sqrt{9138e^2} \otimes e_7 + \frac{2}{8961}\sqrt{1839e^4} \otimes e_8$	{1289, 1356789}
952:59	$0, 0, 0, 0, \frac{1}{161}\sqrt{26e^{12}}, \frac{2}{483}\sqrt{15e^{13}}, \frac{1}{483}\sqrt{330e^{34}}, \frac{1}{483}\sqrt{322e^{25}},$ $\frac{1}{483}\sqrt{222e^{14}} + \frac{1}{483}\sqrt{138e^{36}}$	$(\frac{4}{161}, -\frac{8}{483}, -\frac{1}{161}, -\frac{2}{161}, \frac{4}{483}, \frac{3}{161}, -\frac{3}{161}, -\frac{4}{483}, \frac{2}{161})$ $+ \frac{1}{483}\sqrt{426e^3} \otimes e_8 + \frac{2}{483}\sqrt{111e^2} \otimes e_7$	{1456789, 23456}
952:59	$0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{1}{110}\sqrt{286e^{13}}, \frac{1}{55}\sqrt{385e^{34}}, \frac{1}{110}\sqrt{946e^{25}},$ $\frac{1}{110}\sqrt{1298e^{14}} + \frac{3}{55}\sqrt{22e^{36}}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{110}\sqrt{2002e^1} \otimes e_7 + \frac{3}{55}\sqrt{66e^4} \otimes e_8$	{1289, 1589}
952:59	$0, 0, 0, 0, \frac{2}{1123}\sqrt{2330e^{12}}, \frac{10}{1123}\sqrt{3029e^{13}}, \frac{6}{1123}\sqrt{16310e^{34}},$ $\frac{2}{3369}\sqrt{1308295e^{25}}, \frac{2}{1123}\sqrt{147955e^{14}} + \frac{6}{3369}\sqrt{688515e^{36}}$	$(-\frac{12}{1123}, -\frac{601}{3369}, \frac{182}{1123}, \frac{364}{1123}, -\frac{637}{3369}, \frac{170}{1123}, \frac{546}{1123}, -\frac{1238}{3369}, \frac{352}{1123})$ $+ \frac{10}{3369}\sqrt{133509e^4} \otimes e_8$	{2378, 268, 3578, 568}
952:59	$0, 0, 0, 0, \frac{1}{149}\sqrt{410e^{12}}, \frac{2}{447}\sqrt{15990e^{13}}, \frac{3}{149}\sqrt{410e^{34}}, \frac{1}{447}\sqrt{61090e^{25}},$ $\frac{1}{447}\sqrt{45510e^{14}} + \frac{1}{447}\sqrt{65190e^{36}}$	$(\frac{6}{149}, -\frac{86}{447}, \frac{17}{149}, \frac{34}{149}, -\frac{68}{447}, \frac{23}{149}, \frac{51}{149}, -\frac{154}{447}, \frac{40}{149})$ $+ \frac{25}{447}\sqrt{246e^3} \otimes e_8$	{1246789, 1456789, 23456, 346}
952:59	$0, 0, 0, 0, \frac{11}{933}\sqrt{278e^{12}}, \frac{22}{933}\sqrt{67e^{13}}, \frac{11}{933}\sqrt{206e^{34}}, \frac{11}{933}\sqrt{622e^{25}},$ $\frac{11}{933}\sqrt{510e^{14}} + \frac{22}{933}\sqrt{30e^{36}}$	$(-\frac{55}{311}, \frac{88}{933}, \frac{22}{311}, \frac{44}{311}, -\frac{77}{933}, -\frac{33}{311}, \frac{66}{311}, \frac{11}{933}, -\frac{11}{311})$ $+ \frac{11}{933}\sqrt{790e^4} \otimes e_8 + \frac{11}{933}\sqrt{886e^2} \otimes e_9$	{349, 4679}
952:59	$0, 0, 0, 0, \frac{2}{327}\sqrt{570e^{12}}, \frac{4}{327}\sqrt{141e^{13}}, \frac{2}{109}\sqrt{22e^{34}}, \frac{4}{327}\sqrt{327e^{25}},$ $\frac{4}{109}\sqrt{5e^{14}} + \frac{2}{327}\sqrt{1302e^{36}}$	$(-\frac{14}{109}, \frac{6}{109}, \frac{6}{109}, \frac{12}{109}, -\frac{8}{109}, -\frac{8}{109}, \frac{18}{109}, -\frac{2}{109}, -\frac{2}{109})$ $+ \frac{2}{327}\sqrt{1830e^3} \otimes e_8 + \frac{4}{327}\sqrt{411e^2} \otimes e_9$	{1456789, 23456}
952:59	$0, 0, 0, 0, \frac{1}{221}\sqrt{20710e^{12}}, \frac{1}{221}\sqrt{9215e^{13}}, \frac{11}{221}\sqrt{190e^{34}}, \frac{1}{221}\sqrt{5035e^{25}},$ $\frac{19}{221}\sqrt{35e^{14}} + \frac{6}{221}\sqrt{190e^{36}}$	$(\frac{109}{221}, -\frac{28}{221}, -\frac{27}{221}, -\frac{54}{221}, \frac{81}{221}, \frac{82}{221}, -\frac{81}{221}, \frac{53}{221}, \frac{55}{221})$ $+ \frac{5}{221}\sqrt{2755e^1} \otimes e_7$	{12348, 13458, 24579, 479}
952:59	$0, 0, 0, 0, \frac{2}{717}\sqrt{41961e^{12}}, \frac{2}{717}\sqrt{11229e^{13}}, \frac{2}{717}\sqrt{11229e^{34}},$ $\frac{2}{717}\sqrt{47083e^{25}}, \frac{2}{239}\sqrt{2955e^{14}} + \frac{2}{717}\sqrt{41961e^{36}}$	$(-\frac{57}{239}, \frac{265}{717}, \frac{7}{239}, \frac{14}{239}, \frac{94}{717}, -\frac{50}{239}, \frac{21}{239}, \frac{359}{717}, -\frac{43}{239})$ $+ \frac{2}{717}\sqrt{117609e^2} \otimes e_9$	{1234678, 1248, 3479, 469}
952:59	$0, 0, 0, 0, \frac{4}{571}\sqrt{8305e^{12}}, \frac{2}{1713}\sqrt{133635e^{13}}, \frac{2}{571}\sqrt{310305e^{34}},$ $\frac{1}{1713}\sqrt{862210e^{25}}, \frac{1}{1713}\sqrt{466590e^{14}} + \frac{2}{571}\sqrt{151e^{36}}$	$(\frac{38}{571}, \frac{350}{1713}, -\frac{45}{571}, -\frac{90}{571}, \frac{464}{1713}, -\frac{7}{571}, -\frac{135}{571}, \frac{814}{1713}, -\frac{52}{571})$ $+ \frac{70}{1713}\sqrt{453e^2} \otimes e_7$	{1234689, 145789, 2345, 467}
952:59	$0, 0, 0, 0, \frac{11}{533}\sqrt{295e^{12}}, \frac{11}{1066}\sqrt{46e^{13}}, \frac{11}{533}\sqrt{67e^{34}}, \frac{11}{1066}\sqrt{898e^{25}},$ $\frac{11}{1066}\sqrt{770e^{14}} + \frac{11}{533}\sqrt{138e^{36}}$	$(\frac{22}{533}, \frac{77}{533}, -\frac{33}{533}, -\frac{66}{533}, \frac{99}{533}, -\frac{11}{533}, -\frac{99}{533}, \frac{176}{533}, -\frac{44}{533})$ $+ \frac{11}{1066}\sqrt{1570e^1} \otimes e_7 + \frac{11}{533}\sqrt{546e^2} \otimes e_9$	{123468, 4679}
952:60	$0, 0, 0, 0, \frac{7}{145}\sqrt{62e^{12}}, \frac{7}{145}\sqrt{2e^{13}}, \frac{7}{145}\sqrt{110e^{34}}, \frac{7}{145}\sqrt{58e^{25}},$ $\frac{21}{145}\sqrt{2e^{24}} + \frac{14}{145}\sqrt{5e^{36}}$	$(\frac{53}{145}, -\frac{7}{29}, -\frac{28}{145}, \frac{32}{145}, \frac{18}{145}, \frac{5}{29}, \frac{4}{145}, -\frac{17}{145}, -\frac{3}{145})$ $+ \frac{14}{145}\sqrt{31e^4} \otimes e_8 + \frac{7}{145}\sqrt{134e^1} \otimes e_7$	{1589, 467}
952:60	$0, 0, 0, 0, \frac{2}{19}\sqrt{2e^{12}}, \frac{1}{19}\sqrt{6e^{13}}, \frac{2}{19}\sqrt{3e^{34}}, \frac{2}{19}\sqrt{3e^{25}},$ $\frac{2}{19}\sqrt{3e^{24}} + \frac{2}{19}\sqrt{2e^{36}}$	$(\frac{2}{19}, -\frac{2}{19}, -\frac{1}{19}, \frac{2}{19}, 0, \frac{1}{19}, \frac{1}{19}, -\frac{2}{19}, 0)$ $+ \frac{1}{19}\sqrt{14e^1} \otimes e_7 + \frac{2}{19}\sqrt{5e^3} \otimes e_8$	{15689, 23567}
952:60	$0, 0, 0, 0, \frac{140}{2761}\sqrt{19e^{12}}, \frac{140}{2761}\sqrt{46e^{13}}, \frac{70}{2761}\sqrt{941e^{34}},$ $\frac{140}{2761}\sqrt{195e^{25}}, \frac{70}{2761}\sqrt{421e^{24}} + \frac{70}{2761}\sqrt{299e^{36}}$	$(\frac{573}{2761}, -\frac{812}{2761}, \frac{7}{2761}, \frac{1399}{2761}, -\frac{239}{2761}, \frac{580}{2761}, \frac{1406}{2761}, -\frac{1051}{2761}, \frac{587}{2761})$ $+ \frac{140}{2761}\sqrt{574e^4} \otimes e_8$	{1236789, 1289, 2345, 24567}
952:60	$0, 0, 0, 0, \frac{8}{175}\sqrt{209e^{12}}, \frac{2}{175}\sqrt{1914e^{13}}, \frac{36}{175}\sqrt{11e^{34}}, \frac{2}{175}\sqrt{2706e^{25}},$ $\frac{2}{175}\sqrt{418e^{24}} + \frac{4}{175}\sqrt{165e^{36}}$	$(-\frac{6}{175}, \frac{47}{175}, \frac{4}{175}, -\frac{9}{35}, \frac{41}{175}, -\frac{2}{175}, -\frac{41}{175}, \frac{88}{175}, \frac{2}{175})$ $+ \frac{66}{175}\sqrt{6e^2} \otimes e_7$	{1234689, 1356789, 256, 467}
952:60	$0, 0, 0, 0, \frac{14}{1413}\sqrt{713e^{12}}, \frac{7}{1413}\sqrt{4646e^{13}}, \frac{644}{1413}\sqrt{3e^{34}},$ $\frac{14}{1413}\sqrt{2323e^{25}}, \frac{14}{1413}\sqrt{4163e^{24}} + \frac{14}{471}\sqrt{23e^{36}}$	$(\frac{754}{1413}, -\frac{154}{1413}, -\frac{427}{1413}, \frac{6}{157}, \frac{200}{471}, \frac{109}{471}, -\frac{373}{1413}, \frac{446}{1413}, -\frac{100}{1413})$ $+ \frac{7}{1413}\sqrt{53774e^1} \otimes e_7$	{123489, 15689, 23567, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:60	$0, 0, 0, 0, \frac{1}{557}\sqrt{283}e^{12}, \frac{1}{1114}\sqrt{898}e^{13}, \frac{1}{557}\sqrt{479}e^{34}, \frac{3}{1114}\sqrt{158}e^{25},$ $\frac{1}{1114}\sqrt{190}e^{24} + \frac{1}{557}\sqrt{146}e^{36}$	$(\frac{15}{557}, -\frac{7}{557}, -\frac{10}{557}, \frac{2}{557}, \frac{8}{557}, \frac{5}{557}, -\frac{8}{557}, \frac{1}{557}, -\frac{5}{557})$ $+ \frac{1}{1114}\sqrt{2334}e^2 \otimes e_7 + \frac{1}{557}\sqrt{442}e^4 \otimes e_8$	{1289, 2345}
952:60	$0, 0, 0, 0, \frac{1}{46}\sqrt{46}e^{12}, \frac{1}{46}\sqrt{2}e^{13}, \frac{1}{46}\sqrt{66}e^{34}, \frac{1}{46}\sqrt{74}e^{25},$ $\frac{1}{46}\sqrt{38}e^{24} + \frac{1}{46}\sqrt{26}e^{36}$	$(-\frac{3}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, \frac{1}{23}, \frac{1}{23}, \frac{1}{23})$ $+ \frac{1}{46}\sqrt{78}e^2 \otimes e_7 + \frac{1}{46}\sqrt{86}e^3 \otimes e_8$	{128, 14578, 23459, 379}
952:60	$0, 0, 0, 0, \frac{1}{46}\sqrt{46}e^{12}, \frac{1}{46}\sqrt{2}e^{13}, \frac{1}{46}\sqrt{66}e^{34}, \frac{1}{46}\sqrt{74}e^{25},$ $\frac{1}{46}\sqrt{38}e^{24} + \frac{1}{46}\sqrt{26}e^{36}$	$(-\frac{3}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, \frac{1}{23}, \frac{1}{23}, \frac{1}{23})$ $+ \frac{1}{46}\sqrt{78}e^2 \otimes e_7 - \frac{1}{46}\sqrt{86}e^3 \otimes e_8$	{128, 14578, 23459, 379}
952:60	$0, 0, 0, 0, \frac{8}{181}\sqrt{37}e^{12}, \frac{4}{181}\sqrt{370}e^{13}, \frac{6}{181}\sqrt{185}e^{34}, \frac{8}{181}\sqrt{185}e^{25},$ $\frac{2}{181}\sqrt{2183}e^{24} + \frac{2}{181}\sqrt{2405}e^{36}$	$(-\frac{27}{181}, -\frac{8}{181}, \frac{31}{181}, \frac{43}{181}, -\frac{35}{181}, \frac{4}{181}, \frac{74}{181}, -\frac{43}{181}, \frac{35}{181})$ $+ \frac{4}{181}\sqrt{1406}e^3 \otimes e_8$	{1246789, 15689, 23567, 346}
952:61	$0, 0, 0, 0, \frac{160}{533}e^{12}, \frac{10}{533}\sqrt{34}e^{13}, \frac{100}{533}\sqrt{3}e^{23}, \frac{10}{533}\sqrt{670}e^{15},$ $\frac{20}{533}\sqrt{22}e^{16} + \frac{10}{533}\sqrt{138}e^{24}$	$(\frac{70}{533}, -\frac{110}{533}, -\frac{20}{533}, \frac{230}{533}, -\frac{40}{533}, \frac{50}{533}, -\frac{10}{533}, \frac{30}{533}, \frac{120}{533})$ $+ \frac{10}{533}\sqrt{1074}e^1 \otimes e_7 + \frac{20}{533}\sqrt{201}e^4 \otimes e_8$	{12389, 34679}
952:61	$0, 0, 0, 0, \frac{2}{2389}\sqrt{1052515}e^{12}, \frac{2}{2389}\sqrt{671051}e^{13}, \frac{6}{2389}\sqrt{105833}e^{23},$ $\frac{2}{2389}\sqrt{431473}e^{15}, \frac{4}{2389}\sqrt{50009}e^{16} + \frac{12}{2389}\sqrt{12793}e^{24}$	$(-\frac{163}{2389}, \frac{1061}{2389}, \frac{122}{2389}, -\frac{1265}{2389}, \frac{898}{2389}, -\frac{41}{2389}, \frac{1183}{2389}, \frac{735}{2389}, -\frac{204}{2389})$ $+ \frac{90}{2389}\sqrt{1163}e^2 \otimes e_4$	{1278, 145, 25678, 46}
952:61	$0, 0, 0, 0, \frac{2}{2529}\sqrt{288915}e^{12}, \frac{2}{2529}\sqrt{487190}e^{13}, \frac{2}{2529}\sqrt{904134}e^{23},$ $\frac{4}{2529}\sqrt{197142}e^{15}, \frac{22}{2529}\sqrt{103}e^{16} + \frac{4}{2529}\sqrt{11330}e^{24}$	$(-\frac{448}{2529}, -\frac{23}{843}, \frac{1301}{2529}, \frac{158}{843}, -\frac{517}{2529}, \frac{853}{2529}, \frac{1232}{2529}, -\frac{965}{2529}, \frac{45}{281})$ $+ \frac{2}{2529}\sqrt{2373635}e^3 \otimes e_8$	{123459, 1468, 23469, 458}
952:61	$0, 0, 0, 0, \frac{15}{1969}\sqrt{174}e^{12}, \frac{15}{1969}\sqrt{519}e^{13}, \frac{15}{1969}\sqrt{1266}e^{23},$ $\frac{15}{1969}\sqrt{941}e^{15}, \frac{30}{1969}\sqrt{149}e^{16} + \frac{15}{1969}\sqrt{553}e^{24}$	$(\frac{60}{1969}, -\frac{255}{1969}, \frac{90}{1969}, \frac{465}{1969}, -\frac{195}{1969}, \frac{150}{1969}, -\frac{15}{179}, -\frac{135}{1969}, \frac{210}{1969})$ $+ \frac{15}{1969}\sqrt{1973}e^1 \otimes e_7 + \frac{30}{1969}\sqrt{397}e^3 \otimes e_8$	{2578, 3679}
952:61	$0, 0, 0, 0, \frac{1}{323}\sqrt{21670}e^{12}, \frac{2}{323}\sqrt{3349}e^{13}, \frac{3}{323}\sqrt{4334}e^{23}, \frac{1}{323}\sqrt{26398}e^{15},$ $\frac{4}{323}\sqrt{2167}e^{16} + \frac{3}{323}\sqrt{2758}e^{24}$	$(\frac{79}{323}, -\frac{2}{17}, -\frac{80}{323}, \frac{116}{323}, \frac{41}{323}, -\frac{323}{323}, -\frac{1}{323}, -\frac{118}{323}, \frac{120}{323}, \frac{78}{323})$ $+ \frac{6}{323}\sqrt{2955}e^1 \otimes e_7$	{123489, 1456, 2578, 3679}
952:61	$0, 0, 0, 0, \frac{2}{45}\sqrt{51}e^{12}, \frac{2}{45}\sqrt{30}e^{13}, \frac{2}{15}\sqrt{14}e^{23}, \frac{4}{15}\sqrt{2}e^{15},$ $\frac{2}{15}e^{16} + \frac{8}{45}\sqrt{3}e^{24}$	$(0, -\frac{1}{5}, \frac{2}{5}, \frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{45}\sqrt{195}e^3 \otimes e_8 + \frac{4}{45}\sqrt{42}e^4 \otimes e_7$	{12345, 14689, 2346, 4589}
952:61	$0, 0, 0, 0, \frac{2}{45}\sqrt{51}e^{12}, \frac{2}{45}\sqrt{30}e^{13}, \frac{2}{15}\sqrt{14}e^{23}, \frac{4}{15}\sqrt{2}e^{15},$ $\frac{2}{15}e^{16} + \frac{8}{45}\sqrt{3}e^{24}$	$(0, -\frac{1}{5}, \frac{2}{5}, \frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{45}\sqrt{195}e^3 \otimes e_8 - \frac{4}{45}\sqrt{42}e^4 \otimes e_7$	{12345, 14689, 2346, 4589}
952:61	$0, 0, 0, 0, \frac{4}{803}\sqrt{3310}e^{12}, \frac{2}{803}\sqrt{24163}e^{13}, \frac{2}{803}\sqrt{21515}e^{23},$ $\frac{2}{803}\sqrt{119822}e^{15}, \frac{2}{803}\sqrt{69510}e^{16} + \frac{2}{803}\sqrt{114526}e^{24}$	$(-\frac{1}{803}, -\frac{203}{803}, \frac{256}{803}, \frac{457}{803}, -\frac{204}{803}, \frac{255}{803}, \frac{53}{803}, -\frac{205}{803}, \frac{254}{803})$ $+ \frac{2}{803}\sqrt{226735}e^4 \otimes e_8$	{1236789, 134569, 235789, 349}
952:61	$0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{2}{33}\sqrt{6}e^{13}, \frac{2}{33}\sqrt{33}e^{23}, \frac{2}{11}\sqrt{2}e^{15},$ $\frac{4}{33}\sqrt{3}e^{16} + \frac{2}{33}\sqrt{21}e^{24}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{2}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0)$ $+ \frac{2}{33}\sqrt{39}e^2 \otimes e_4 + \frac{2}{33}\sqrt{51}e^1 \otimes e_7$	{12368, 347}
952:61	$0, 0, 0, 0, \frac{51}{6385}\sqrt{1698}e^{12}, \frac{51}{1277}\sqrt{22}e^{13}, \frac{204}{6385}\sqrt{271}e^{23},$ $\frac{204}{6385}\sqrt{173}e^{15}, \frac{51}{6385}\sqrt{602}e^{16} + \frac{153}{6385}\sqrt{154}e^{24}$	$(-\frac{204}{1277}, \frac{1122}{6385}, \frac{1683}{6385}, -\frac{1479}{6385}, \frac{102}{6385}, \frac{663}{6385}, \frac{561}{1277}, -\frac{918}{6385}, -\frac{357}{6385})$ $+ \frac{2703}{6385}\sqrt{2}e^2 \otimes e_4 + \frac{51}{6385}\sqrt{5878}e^3 \otimes e_8$	{1278, 25678}
952:62	$0, 0, 0, 0, \frac{3}{259}\sqrt{574}e^{12}, \frac{3}{259}\sqrt{154}e^{13}, \frac{6}{259}\sqrt{210}e^{23}, \frac{6}{259}\sqrt{301}e^{25},$ $\frac{6}{37}e^{16} + \frac{3}{259}\sqrt{826}e^{24}$	$(-\frac{6}{37}, \frac{3}{37}, \frac{9}{37}, -\frac{6}{37}, -\frac{3}{37}, \frac{3}{37}, \frac{12}{37}, 0, -\frac{3}{37})$ $+ \frac{15}{259}\sqrt{70}e^2 \otimes e_4 + \frac{6}{259}\sqrt{385}e^3 \otimes e_8$	{12678, 14568}
952:62	$0, 0, 0, 0, \frac{2}{569}\sqrt{13731}e^{12}, \frac{8}{569}\sqrt{1393}e^{13}, \frac{4}{569}\sqrt{8159}e^{23}, \frac{2}{569}\sqrt{3383}e^{25},$ $\frac{6}{569}\sqrt{4577}e^{16} + \frac{22}{569}\sqrt{199}e^{24}$	$(\frac{181}{569}, -\frac{35}{569}, -\frac{182}{569}, \frac{215}{569}, \frac{146}{569}, -\frac{1}{569}, -\frac{217}{569}, \frac{111}{569}, \frac{180}{569})$ $+ \frac{10}{569}\sqrt{3781}e^1 \otimes e_7$	{123489, 14568, 257, 3679}
952:62	$0, 0, 0, 0, \frac{17}{142}\sqrt{14}e^{12}, \frac{1}{142}\sqrt{10234}e^{13}, \frac{1}{142}\sqrt{1785}e^{23}, \frac{1}{142}\sqrt{10234}e^{25},$ $\frac{1}{142}\sqrt{4641}e^{16} + \frac{17}{142}\sqrt{14}e^{24}$	$(-\frac{21}{142}, -\frac{29}{284}, \frac{69}{142}, \frac{83}{284}, -\frac{1}{4}, \frac{24}{71}, \frac{109}{284}, -\frac{25}{71}, \frac{27}{142})$ $+ \frac{1}{142}\sqrt{27965}e^3 \otimes e_8$	{123459, 1379, 278, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:62	$0, 0, 0, 0, \frac{39}{8173}\sqrt{10}e^{12}, \frac{39}{8173}\sqrt{4002}e^{13}, \frac{39}{8173}\sqrt{4330}e^{23},$ $\frac{39}{8173}\sqrt{2446}e^{25}, \frac{468}{8173}\sqrt{29}e^{16} + \frac{39}{8173}\sqrt{3102}e^{24}$	$(\frac{624}{8173}, -\frac{1014}{8173}, \frac{117}{8173}, \frac{2379}{8173}, -\frac{390}{8173}, \frac{741}{8173}, -\frac{897}{8173}, -\frac{1404}{8173}, \frac{1365}{8173})$ $+\frac{39}{8173}\sqrt{6910}e^3 \otimes e_8 + \frac{78}{8173}\sqrt{1945}e^1 \otimes e_7$	{14568, 3679}
952:62	$0, 0, 0, 0, \frac{68}{549}\sqrt{2}e^{12}, \frac{34}{549}\sqrt{67}e^{13}, \frac{34}{183}\sqrt{11}e^{23}, \frac{34}{549}\sqrt{158}e^{25},$ $\frac{68}{549}\sqrt{6}e^{16} + \frac{34}{549}\sqrt{174}e^{24}$	$(\frac{59}{549}, -\frac{131}{549}, \frac{14}{61}, \frac{125}{183}, -\frac{8}{61}, \frac{185}{549}, -\frac{5}{549}, -\frac{203}{549}, \frac{4}{9})$ $+\frac{34}{549}\sqrt{455}e^4 \otimes e_8$	{123457, 14679, 289, 3568}
952:62	$0, 0, 0, 0, \frac{21}{67}\sqrt{6}e^{12}, \frac{7}{67}\sqrt{22}e^{13}, \frac{7}{67}\sqrt{31}e^{23}, \frac{7}{67}\sqrt{47}e^{25},$ $\frac{7}{67}e^{16} + \frac{7}{67}\sqrt{38}e^{24}$	$(-\frac{7}{67}, \frac{20}{67}, \frac{5}{67}, -\frac{29}{67}, \frac{13}{67}, -\frac{2}{67}, \frac{25}{67}, \frac{33}{67}, -\frac{9}{67})$ $+\frac{7}{67}\sqrt{115}e^2 \otimes e_4$	{12368, 1345678, 235, 347}
952:63	$0, 0, 0, 0, \frac{44}{769}\sqrt{5}e^{12}, \frac{11}{769}\sqrt{485}e^{13}, \frac{11}{769}\sqrt{849}e^{23}, \frac{11}{769}\sqrt{203}e^{15},$ $\frac{11}{769}\sqrt{579}e^{14} + \frac{22}{769}\sqrt{111}e^{36}$	$(-\frac{121}{1538}, -\frac{33}{769}, \frac{88}{769}, \frac{176}{769}, -\frac{187}{1538}, \frac{55}{1538}, \frac{55}{769}, -\frac{154}{769}, \frac{231}{1538})$ $-\frac{11}{769}\sqrt{607}e^2 \otimes e_8 + \frac{11}{769}\sqrt{835}e^4 \otimes e_7$	{12579, 136789, 267, 3578}
952:63	$0, 0, 0, 0, \frac{44}{769}\sqrt{5}e^{12}, \frac{11}{769}\sqrt{485}e^{13}, \frac{11}{769}\sqrt{849}e^{23}, \frac{11}{769}\sqrt{203}e^{15},$ $\frac{11}{769}\sqrt{579}e^{14} + \frac{22}{769}\sqrt{111}e^{36}$	$(-\frac{121}{1538}, -\frac{33}{769}, \frac{88}{769}, \frac{176}{769}, -\frac{187}{1538}, \frac{55}{1538}, \frac{55}{769}, -\frac{154}{769}, \frac{231}{1538})$ $+\frac{11}{769}\sqrt{607}e^2 \otimes e_8 + \frac{11}{769}\sqrt{835}e^4 \otimes e_7$	{12579, 136789, 267, 3578}
952:63	$0, 0, 0, 0, \frac{1}{103}\sqrt{2730}e^{12}, \frac{4}{103}\sqrt{35}e^{13}, \frac{7}{103}\sqrt{10}e^{23}, \frac{4}{103}\sqrt{105}e^{15},$ $\frac{5}{103}\sqrt{42}e^{14} + \frac{4}{103}\sqrt{105}e^{36}$	$(\frac{9}{103}, \frac{18}{103}, -\frac{13}{103}, -\frac{26}{103}, \frac{27}{103}, -\frac{4}{103}, \frac{5}{103}, \frac{36}{103}, -\frac{17}{103})$ $+\frac{1}{103}\sqrt{3710}e^1 \otimes e_4 + \frac{1}{103}\sqrt{665}e^2 \otimes e_9$	{2345678, 2458}
952:63	$0, 0, 0, 0, \frac{15}{566}\sqrt{770}e^{12}, \frac{3}{566}\sqrt{11690}e^{13}, \frac{3}{566}\sqrt{12390}e^{23}, \frac{18}{283}\sqrt{105}e^{15},$ $\frac{3}{566}\sqrt{17430}e^{14} + \frac{3}{566}\sqrt{11795}e^{36}$	$(\frac{157}{566}, -\frac{37}{1132}, -\frac{79}{566}, -\frac{79}{283}, \frac{277}{1132}, \frac{39}{283}, -\frac{195}{1132}, \frac{591}{1132}, -\frac{1}{566})$ $+\frac{21}{566}\sqrt{695}e^1 \otimes e_4$	{2345678, 2458, 346, 47}
952:63	$0, 0, 0, 0, \frac{10}{2341}\sqrt{18165}e^{12}, \frac{10}{2341}\sqrt{17535}e^{13}, \frac{30}{2341}\sqrt{2555}e^{23},$ $\frac{10}{2341}\sqrt{3045}e^{15}, \frac{20}{2341}\sqrt{5495}e^{14} + \frac{40}{2341}\sqrt{770}e^{36}$	$(-\frac{345}{2341}, \frac{1165}{2341}, -\frac{120}{2341}, -\frac{240}{2341}, \frac{820}{2341}, -\frac{465}{2341}, \frac{1045}{2341}, \frac{475}{2341}, -\frac{585}{2341})$ $+\frac{210}{2341}\sqrt{155}e^2 \otimes e_9$	{123468, 12478, 3479, 469}
952:63	$0, 0, 0, 0, \frac{2}{1963}\sqrt{282498}e^{12}, \frac{394}{1963}\sqrt{6}e^{13}, \frac{6}{1963}\sqrt{61070}e^{23},$ $\frac{12}{1963}\sqrt{2758}e^{15}, \frac{2}{1963}\sqrt{582726}e^{14} + \frac{4}{1963}\sqrt{90029}e^{36}$	$(\frac{213}{1963}, -\frac{42}{151}, \frac{242}{1963}, \frac{484}{1963}, -\frac{333}{1963}, \frac{35}{151}, -\frac{304}{1963}, -\frac{120}{1963}, \frac{697}{1963})$ $+\frac{2}{1963}\sqrt{721414}e^4 \otimes e_7$	{125789, 13679, 2678, 357}
952:63	$0, 0, 0, 0, \frac{3}{175}\sqrt{14}e^{12}, \frac{2}{875}\sqrt{917}e^{13}, \frac{1}{875}\sqrt{1526}e^{23}, \frac{8}{875}\sqrt{70}e^{15},$ $\frac{1}{875}\sqrt{4858}e^{14} + \frac{2}{125}\sqrt{22}e^{36}$	$(\frac{3}{125}, -\frac{6}{125}, \frac{1}{125}, \frac{2}{125}, -\frac{3}{125}, \frac{4}{125}, -\frac{1}{25}, 0, \frac{1}{25})$ $+\frac{1}{875}\sqrt{5698}e^1 \otimes e_4 + \frac{2}{875}\sqrt{1379}e^3 \otimes e_8$	{2458, 346}
952:63	$0, 0, 0, 0, \frac{60}{683}\sqrt{7}e^{12}, \frac{5}{683}\sqrt{518}e^{13}, \frac{210}{683}e^{23}, \frac{20}{683}\sqrt{119}e^{15},$ $\frac{5}{683}\sqrt{434}e^{14} + \frac{70}{683}\sqrt{14}e^{36}$	$(-\frac{135}{683}, \frac{150}{683}, \frac{55}{683}, \frac{110}{683}, \frac{15}{683}, -\frac{80}{683}, \frac{205}{683}, -\frac{120}{683}, -\frac{25}{683})$ $+\frac{5}{683}\sqrt{3766}e^2 \otimes e_9 + \frac{5}{683}\sqrt{4690}e^3 \otimes e_8$	{134579, 24578}
952:63	$0, 0, 0, 0, \frac{30}{3419}\sqrt{591}e^{12}, \frac{30}{3419}\sqrt{389}e^{13}, \frac{30}{3419}\sqrt{1093}e^{23},$ $\frac{30}{3419}\sqrt{453}e^{15}, \frac{30}{3419}\sqrt{942}e^{14} + \frac{30}{3419}\sqrt{62}e^{36}$	$(\frac{315}{3419}, \frac{165}{3419}, -\frac{300}{3419}, \frac{600}{3419}, \frac{480}{3419}, \frac{15}{3419}, -\frac{135}{3419}, \frac{795}{3419}, -\frac{285}{3419})$ $+\frac{30}{3419}\sqrt{1507}e^2 \otimes e_9 + \frac{30}{3419}\sqrt{1570}e^1 \otimes e_7$	{159, 25678}
952:63	$0, 0, 0, 0, \frac{15}{5297}\sqrt{166}e^{12}, \frac{10}{5297}\sqrt{771}e^{13}, \frac{5}{5297}\sqrt{5898}e^{23},$ $\frac{105}{5297}\sqrt{2}e^{15}, \frac{60}{5297}\sqrt{43}e^{14} + \frac{5}{5297}\sqrt{2522}e^{36}$	$(-\frac{135}{5297}, \frac{60}{5297}, \frac{85}{5297}, \frac{170}{5297}, -\frac{75}{5297}, -\frac{50}{5297}, \frac{145}{5297}, -\frac{210}{5297}, \frac{35}{5297})$ $+\frac{5}{5297}\sqrt{4062}e^2 \otimes e_9 + \frac{5}{5297}\sqrt{6070}e^4 \otimes e_7$	{13679, 2678}
952:63	$0, 0, 0, 0, \frac{45}{6181}\sqrt{1018}e^{12}, \frac{90}{6181}\sqrt{723}e^{13}, \frac{90}{6181}\sqrt{771}e^{23},$ $\frac{90}{6181}\sqrt{406}e^{15}, \frac{45}{6181}\sqrt{4186}e^{14} + \frac{135}{6181}\sqrt{6}e^{36}$	$(-\frac{1350}{6181}, \frac{1665}{6181}, \frac{495}{6181}, \frac{990}{6181}, \frac{45}{883}, -\frac{855}{6181}, \frac{2160}{6181}, -\frac{1035}{6181}, -\frac{360}{6181})$ $+\frac{45}{6181}\sqrt{4930}e^4 \otimes e_8 + \frac{90}{6181}\sqrt{1549}e^2 \otimes e_9$	{3479, 469}
952:63	$0, 0, 0, 0, \frac{58}{5739}\sqrt{191}e^{12}, \frac{29}{5739}\sqrt{1790}e^{13}, \frac{116}{5739}\sqrt{17}e^{23},$ $\frac{58}{5739}\sqrt{849}e^{15}, \frac{290}{5739}\sqrt{5}e^{14} + \frac{58}{5739}\sqrt{395}e^{36}$	$(\frac{290}{5739}, -\frac{986}{5739}, \frac{145}{1913}, \frac{290}{1913}, -\frac{232}{1913}, \frac{725}{5739}, -\frac{551}{5739}, -\frac{406}{5739}, \frac{1160}{5739})$ $+\frac{29}{5739}\sqrt{4790}e^1 \otimes e_7 + \frac{58}{5739}\sqrt{1362}e^3 \otimes e_8$	{24578, 3467}
952:63	$0, 0, 0, 0, \frac{16}{2351}\sqrt{609}e^{12}, \frac{80}{2351}\sqrt{273}e^{13}, \frac{16}{2351}\sqrt{2478}e^{23},$ $\frac{8}{2351}\sqrt{33474}e^{15}, \frac{48}{2351}\sqrt{805}e^{14} + \frac{8}{2351}\sqrt{39270}e^{36}$	$(-\frac{445}{2351}, \frac{76}{2351}, \frac{530}{2351}, \frac{1060}{2351}, -\frac{369}{2351}, \frac{85}{2351}, \frac{606}{2351}, -\frac{814}{2351}, \frac{615}{2351})$ $+\frac{56}{2351}\sqrt{1698}e^3 \otimes e_8$	{1246789, 134579, 24578, 3467}
952:63	$0, 0, 0, 0, \frac{2}{1191}\sqrt{67322}e^{12}, \frac{1}{1191}\sqrt{27914}e^{13}, \frac{2}{1191}\sqrt{160095}e^{23},$ $\frac{14}{1191}\sqrt{2463}e^{15}, \frac{2}{1191}\sqrt{119866}e^{14} + \frac{8}{1191}\sqrt{4105}e^{36}$	$(\frac{424}{1191}, -\frac{352}{1191}, -\frac{15}{397}, -\frac{30}{397}, \frac{24}{397}, \frac{379}{1191}, -\frac{1}{3}, \frac{496}{1191}, \frac{334}{1191})$ $+\frac{1}{1191}\sqrt{1623938}e^1 \otimes e_7$	{12348, 1456, 245789, 34679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:63	$0, 0, 0, 0, \frac{1}{558}\sqrt{42254e^{12}}, \frac{1}{279}\sqrt{32547e^{13}}, \frac{1}{558}\sqrt{120481e^{23}},$ $\frac{1}{279}\sqrt{43967e^{15}}, \frac{1}{279}\sqrt{59955e^{14}} + \frac{5}{558}\sqrt{3426e^{36}}$	$(-\frac{245}{1116}, \frac{11}{279}, \frac{29}{93}, \frac{58}{93}, -\frac{67}{372}, \frac{103}{1116}, \frac{98}{279}, -\frac{223}{558}, \frac{451}{1116})$ $+ \frac{1}{558}\sqrt{533885e^4} \otimes e_8$	{136789, 189, 3578, 568}
952:63	$0, 0, 0, 0, \frac{13}{2343}\sqrt{426e^{12}}, \frac{26}{2343}\sqrt{345e^{13}}, \frac{13}{2343}\sqrt{3930e^{23}},$ $\frac{26}{2343}\sqrt{903e^{15}}, \frac{13}{2343}\sqrt{4602e^{14}} + \frac{13}{2343}\sqrt{2406e^{36}}$	$(\frac{65}{781}, -\frac{169}{781}, \frac{65}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{39}{781}, \frac{195}{781})$ $+ \frac{26}{2343}\sqrt{1407e^4} \otimes e_8 + \frac{26}{2343}\sqrt{1779e^1} \otimes e_7$	{123689, 25678}
952:64	$0, 0, 0, 0, \frac{1}{77}\sqrt{330e^{12}}, \frac{6}{77}\sqrt{22e^{13}}, \frac{5}{77}\sqrt{66e^{23}}, \frac{4}{77}\sqrt{33e^{15}},$ $\frac{2}{77}\sqrt{330e^{16}} + \frac{1}{77}\sqrt{330e^{34}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, 0, \frac{3}{7}, 0, -\frac{1}{7})$ $+ \frac{1}{77}\sqrt{2310e^3} \otimes e_4 + \frac{2}{77}\sqrt{561e^2} \otimes e_9$	{1245678, 2478}
952:64	$0, 0, 0, 0, \frac{13}{295}\sqrt{2e^{12}}, \frac{13}{295}\sqrt{166e^{13}}, \frac{39}{295}\sqrt{22e^{23}}, \frac{104}{295}e^{15},$ $\frac{26}{295}\sqrt{58e^{16}} + \frac{26}{295}\sqrt{42e^{34}}$	$(\frac{13}{59}, -\frac{52}{295}, -\frac{52}{295}, \frac{26}{59}, \frac{13}{295}, \frac{13}{295}, -\frac{104}{295}, \frac{78}{295}, \frac{78}{295})$ $+ \frac{13}{295}\sqrt{498e^1} \otimes e_7$	{123459, 1468, 247, 3456789}
952:64	$0, 0, 0, 0, \frac{68}{575}\sqrt{19e^{12}}, \frac{34}{575}\sqrt{159e^{13}}, \frac{34}{575}\sqrt{141e^{23}}, \frac{34}{575}\sqrt{123e^{15}},$ $\frac{136}{575}\sqrt{7e^{16}} + \frac{34}{575}\sqrt{235e^{34}}$	$(\frac{34}{115}, -\frac{119}{575}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, \frac{51}{575}, -\frac{238}{575}, \frac{221}{575}, \frac{221}{575})$ $+ \frac{102}{575}\sqrt{53e^4} \otimes e_7$	{1278, 135679, 25678, 379}
952:64	$0, 0, 0, 0, \frac{4}{119}\sqrt{430e^{12}}, \frac{2}{119}\sqrt{1419e^{13}}, \frac{4}{119}\sqrt{258e^{23}}, \frac{2}{119}\sqrt{645e^{15}},$ $\frac{4}{119}\sqrt{86e^{16}} + \frac{4}{119}\sqrt{430e^{34}}$	$(-\frac{10}{119}, \frac{55}{119}, -\frac{11}{119}, -\frac{20}{119}, \frac{45}{119}, -\frac{3}{17}, \frac{44}{119}, \frac{5}{17}, -\frac{31}{119})$ $+ \frac{6}{119}\sqrt{473e^2} \otimes e_9$	{123468, 1459, 23458, 469}
952:64	$0, 0, 0, 0, \frac{208}{2177}\sqrt{5e^{12}}, \frac{26}{2177}\sqrt{51e^{13}}, \frac{156}{2177}\sqrt{17e^{23}}, \frac{390}{2177}e^{15},$ $\frac{26}{2177}\sqrt{554e^{16}} + \frac{26}{2177}\sqrt{30e^{34}}$	$(\frac{130}{2177}, \frac{195}{2177}, -\frac{403}{2177}, \frac{260}{2177}, \frac{325}{2177}, -\frac{39}{311}, -\frac{208}{2177}, \frac{65}{311}, -\frac{143}{2177})$ $+ \frac{130}{2177}\sqrt{42e^1} \otimes e_7 + \frac{26}{2177}\sqrt{897e^2} \otimes e_9$	{24578, 34679}
952:64	$0, 0, 0, 0, \frac{26}{2177}\sqrt{21e^{12}}, \frac{130}{2177}\sqrt{14e^{13}}, \frac{156}{2177}\sqrt{17e^{23}},$ $\frac{52}{2177}\sqrt{131e^{15}}, \frac{26}{2177}\sqrt{255e^{16}} + \frac{26}{2177}\sqrt{30e^{34}}$	$(\frac{130}{2177}, -\frac{403}{2177}, \frac{195}{2177}, \frac{260}{2177}, -\frac{39}{311}, \frac{325}{2177}, -\frac{208}{2177}, -\frac{143}{2177}, \frac{65}{311})$ $+ \frac{130}{2177}\sqrt{42e^1} \otimes e_7 + \frac{26}{2177}\sqrt{897e^3} \otimes e_8$	{24578, 34679}
952:64	$0, 0, 0, 0, \frac{4}{3469}\sqrt{205e^{12}}, \frac{4}{3469}\sqrt{222e^{13}}, \frac{1}{3469}\sqrt{570e^{23}}, \frac{2}{3469}\sqrt{942e^{15}},$ $\frac{1}{3469}\sqrt{3010e^{16}} + \frac{1}{3469}\sqrt{4690e^{34}}$	$(\frac{13}{3469}, -\frac{1}{3469}, -\frac{28}{3469}, \frac{26}{3469}, \frac{12}{3469}, -\frac{15}{3469}, -\frac{29}{3469}, \frac{25}{3469}, -\frac{2}{3469})$ $+ \frac{3}{3469}\sqrt{470e^4} \otimes e_8 + \frac{6}{3469}\sqrt{61e^2} \otimes e_9$	{128, 2568}
952:64	$0, 0, 0, 0, \frac{13}{781}\sqrt{826e^{12}}, \frac{26}{781}\sqrt{233e^{13}}, \frac{39}{781}\sqrt{38e^{23}}, \frac{26}{781}\sqrt{295e^{15}},$ $\frac{13}{781}\sqrt{1046e^{16}} + \frac{13}{781}\sqrt{1290e^{34}}$	$(\frac{65}{781}, -\frac{169}{781}, \frac{65}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{39}{781}, \frac{195}{781})$ $+ \frac{26}{781}\sqrt{3e^1} \otimes e_7 + \frac{78}{781}\sqrt{39e^4} \otimes e_8$	{128, 235789}
952:64	$0, 0, 0, 0, \frac{17}{1381}\sqrt{211e^{12}}, \frac{85}{1381}\sqrt{15e^{13}}, \frac{17}{1381}\sqrt{627e^{23}},$ $\frac{17}{1381}\sqrt{879e^{15}}, \frac{425}{1381}e^{16} + \frac{17}{1381}\sqrt{1045e^{34}}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17e^3} \otimes e_8 + \frac{255}{1381}\sqrt{5e^4} \otimes e_7$	{1278, 135679, 25678, 379}
952:64	$0, 0, 0, 0, \frac{17}{1381}\sqrt{211e^{12}}, \frac{85}{1381}\sqrt{15e^{13}}, \frac{17}{1381}\sqrt{627e^{23}},$ $\frac{17}{1381}\sqrt{879e^{15}}, \frac{425}{1381}e^{16} + \frac{17}{1381}\sqrt{1045e^{34}}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17e^3} \otimes e_8 - \frac{255}{1381}\sqrt{5e^4} \otimes e_7$	{1278, 135679, 25678, 379}
952:64	$0, 0, 0, 0, \frac{1}{134}\sqrt{4147e^{12}}, \frac{9}{134}\sqrt{58e^{13}}, \frac{1}{67}\sqrt{435e^{23}}, \frac{1}{67}\sqrt{1479e^{15}},$ $\frac{1}{134}\sqrt{5278e^{16}} + \frac{2}{67}\sqrt{406e^{34}}$	$(\frac{11}{134}, -\frac{29}{134}, \frac{23}{268}, \frac{11}{67}, -\frac{9}{67}, \frac{45}{268}, -\frac{35}{268}, -\frac{7}{134}, \frac{1}{4})$ $+ \frac{9}{134}\sqrt{87e^4} \otimes e_8$	{1236789, 128, 235789, 2568}
952:64	$0, 0, 0, 0, \frac{13}{4669}\sqrt{2378e^{12}}, \frac{26}{4669}\sqrt{1081e^{13}}, \frac{39}{4669}\sqrt{418e^{23}},$ $\frac{26}{4669}\sqrt{281e^{15}}, \frac{13}{4669}\sqrt{4174e^{16}} + \frac{13}{4669}\sqrt{3894e^{34}}$	$(\frac{65}{4669}, -\frac{403}{4669}, \frac{13}{203}, \frac{130}{4669}, -\frac{338}{4669}, \frac{52}{667}, -\frac{104}{4669}, -\frac{39}{667}, \frac{429}{4669})$ $+ \frac{234}{4669}\sqrt{13e^3} \otimes e_4 + \frac{26}{4669}\sqrt{1137e^1} \otimes e_7$	{146, 2478}
952:64	$0, 0, 0, 0, \frac{1}{130}\sqrt{11446e^{12}}, \frac{1}{130}\sqrt{14938e^{13}}, \frac{1}{130}\sqrt{11058e^{23}}, \frac{2}{65}\sqrt{485e^{15}},$ $\frac{1}{130}\sqrt{11155e^{16}} + \frac{1}{130}\sqrt{11446e^{34}}$	$(-\frac{21}{130}, \frac{33}{260}, \frac{11}{26}, -\frac{21}{65}, -\frac{9}{260}, \frac{17}{65}, \frac{11}{20}, -\frac{51}{260}, \frac{1}{10})$ $+ \frac{1}{130}\sqrt{22407e^3} \otimes e_4$	{1245678, 146, 2478, 45}
952:64	$0, 0, 0, 0, \frac{17}{1381}\sqrt{670e^{12}}, \frac{17}{1381}\sqrt{834e^{13}}, \frac{17}{1381}\sqrt{627e^{23}},$ $\frac{34}{1381}\sqrt{105e^{15}}, \frac{17}{1381}\sqrt{166e^{16}} + \frac{17}{1381}\sqrt{1045e^{34}}$	$(\frac{85}{1381}, \frac{170}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17e^2} \otimes e_9 + \frac{255}{1381}\sqrt{5e^4} \otimes e_7$	{1278, 135679, 25678, 379}
952:64	$0, 0, 0, 0, \frac{17}{1381}\sqrt{670e^{12}}, \frac{17}{1381}\sqrt{834e^{13}}, \frac{17}{1381}\sqrt{627e^{23}},$ $\frac{34}{1381}\sqrt{105e^{15}}, \frac{17}{1381}\sqrt{166e^{16}} + \frac{17}{1381}\sqrt{1045e^{34}}$	$(\frac{85}{1381}, \frac{170}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17e^2} \otimes e_9 - \frac{255}{1381}\sqrt{5e^4} \otimes e_7$	{1278, 135679, 25678, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:64	$0, 0, 0, 0, \frac{8}{557}\sqrt{430e^{12}}, \frac{8}{557}\sqrt{330e^{13}}, \frac{16}{557}\sqrt{114e^{23}}, \frac{8}{557}\sqrt{582e^{15}},$ $\frac{8}{557}\sqrt{178e^{16}} + \frac{16}{557}\sqrt{190e^{34}}$	$(-\frac{64}{557}, \frac{88}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{24}{557}, \frac{176}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+\frac{24}{557}\sqrt{110e^2} \otimes e_9 - \frac{24}{557}\sqrt{110e^3} \otimes e_8$	{1278, 135679, 25678, 379}
952:64	$0, 0, 0, 0, \frac{8}{557}\sqrt{430e^{12}}, \frac{8}{557}\sqrt{330e^{13}}, \frac{16}{557}\sqrt{114e^{23}}, \frac{8}{557}\sqrt{582e^{15}},$ $\frac{8}{557}\sqrt{178e^{16}} + \frac{16}{557}\sqrt{190e^{34}}$	$(-\frac{64}{557}, \frac{88}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{24}{557}, \frac{176}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+\frac{24}{557}\sqrt{110e^2} \otimes e_9 + \frac{24}{557}\sqrt{110e^3} \otimes e_8$	{1278, 135679, 25678, 379}
952:65	$0, 0, 0, 0, \frac{26}{905}\sqrt{107e^{12}}, \frac{26}{905}\sqrt{2e^{13}}, \frac{78}{905}\sqrt{14e^{23}}, \frac{26}{905}\sqrt{301e^{15}},$ $\frac{26}{905}\sqrt{91e^{24}} + \frac{26}{905}\sqrt{38e^{36}}$	$(\frac{26}{181}, -\frac{221}{905}, \frac{13}{905}, \frac{377}{905}, -\frac{91}{905}, \frac{143}{905}, -\frac{208}{905}, \frac{39}{905}, \frac{156}{905})$ $+\frac{26}{905}\sqrt{365e^4} \otimes e_8 + \frac{26}{905}\sqrt{437e^1} \otimes e_7$	{25789, 34679}
952:65	$0, 0, 0, 0, \frac{272}{2241}\sqrt{6e^{12}}, \frac{34}{2241}\sqrt{309e^{13}}, \frac{34}{2241}\sqrt{107e^{23}}, \frac{17}{2241}\sqrt{266e^{15}},$ $\frac{17}{2241}\sqrt{1002e^{24}} + \frac{34}{2241}\sqrt{33e^{36}}$	$(-\frac{34}{2241}, -\frac{34}{2241}, \frac{119}{2241}, \frac{34}{2241}, -\frac{136}{2241}, \frac{85}{2241}, \frac{17}{2241}, -\frac{170}{2241}, \frac{68}{2241})$ $+\frac{34}{2241}\sqrt{1257e^4} \otimes e_7 + \frac{34}{2241}\sqrt{6e^3} \otimes e_8$	{14689, 2346}
952:65	$0, 0, 0, 0, \frac{22}{1169}\sqrt{370e^{12}}, \frac{22}{1169}\sqrt{114e^{13}}, \frac{22}{1169}\sqrt{382e^{23}},$ $\frac{22}{1169}\sqrt{262e^{15}}, \frac{22}{1169}\sqrt{209e^{24}} + \frac{44}{1169}\sqrt{6e^{36}}$	$(\frac{22}{167}, \frac{55}{1169}, -\frac{143}{1169}, -\frac{187}{1169}, \frac{209}{1169}, \frac{11}{1169}, -\frac{88}{1169}, \frac{363}{1169}, -\frac{132}{1169})$ $+\frac{22}{1169}\sqrt{497e^2} \otimes e_4 + \frac{22}{1169}\sqrt{571e^1} \otimes e_7$	{25678, 347}
952:65	$0, 0, 0, 0, \frac{8}{291}\sqrt{29e^{12}}, \frac{4}{291}\sqrt{15e^{13}}, \frac{40}{291}\sqrt{3e^{23}}, \frac{28}{291}\sqrt{7e^{15}},$ $\frac{4}{291}\sqrt{157e^{24}} + \frac{4}{291}\sqrt{170e^{36}}$	$(\frac{8}{291}, -\frac{12}{291}, \frac{4}{291}, \frac{68}{291}, -\frac{28}{291}, \frac{20}{291}, -\frac{8}{291}, \frac{20}{291}, \frac{32}{291})$ $+\frac{4}{291}\sqrt{511e^1} \otimes e_7 + \frac{4}{291}\sqrt{538e^3} \otimes e_8$	{2578, 3467}
952:65	$0, 0, 0, 0, \frac{100}{3493}\sqrt{103e^{12}}, \frac{50}{3493}e^{13}, \frac{100}{3493}\sqrt{255e^{23}}, \frac{50}{3493}\sqrt{717e^{15}},$ $\frac{100}{3493}\sqrt{134e^{24}} + \frac{100}{3493}\sqrt{139e^{36}}$	$(-\frac{750}{3493}, \frac{825}{3493}, \frac{575}{3493}, -\frac{425}{3493}, \frac{75}{3493}, -\frac{25}{3493}, \frac{200}{3493}, -\frac{675}{3493}, \frac{400}{3493})$ $+\frac{100}{3493}\sqrt{443e^3} \otimes e_8 + \frac{150}{3493}\sqrt{149e^2} \otimes e_4$	{2578, 3467}
952:65	$0, 0, 0, 0, \frac{4}{385}\sqrt{3783e^{12}}, \frac{1}{385}\sqrt{11058e^{13}}, \frac{6}{385}\sqrt{1649e^{23}}, \frac{2}{385}\sqrt{17751e^{15}},$ $\frac{12}{385}\sqrt{194e^{24}} + \frac{2}{385}\sqrt{582e^{36}}$	$(\frac{4}{11}, -\frac{92}{385}, -\frac{59}{385}, \frac{114}{385}, \frac{48}{385}, \frac{81}{385}, -\frac{151}{385}, \frac{188}{385}, \frac{2}{35})$ $+\frac{1}{385}\sqrt{185658e^1} \otimes e_7$	{123489, 1569, 2578, 3467}
952:65	$0, 0, 0, 0, \frac{2}{2961}\sqrt{216535e^{12}}, \frac{2}{2961}\sqrt{146685e^{13}}, \frac{4}{2961}\sqrt{20955e^{23}},$ $\frac{2}{2961}\sqrt{1427734e^{15}}, \frac{22}{2961}\sqrt{12954e^{24}} + \frac{2}{2961}\sqrt{265430e^{36}}$	$(-\frac{30}{329}, -\frac{415}{2961}, \frac{121}{423}, \frac{613}{987}, -\frac{685}{2961}, \frac{577}{2961}, \frac{48}{329}, -\frac{955}{2961}, \frac{1424}{2961})$ $+\frac{2}{2961}\sqrt{3449193e^4} \otimes e_8$	{2347, 246, 358, 5678}
952:65	$0, 0, 0, 0, \frac{72}{2873}\sqrt{1099e^{12}}, \frac{6}{2873}\sqrt{101579e^{13}}, \frac{12}{2873}\sqrt{39878e^{23}},$ $\frac{6}{2873}\sqrt{57305e^{15}}, \frac{12}{2873}\sqrt{20410e^{24}} + \frac{24}{2873}\sqrt{157e^{36}}$	$(-\frac{278}{2873}, \frac{1369}{2873}, \frac{95}{2873}, -\frac{1457}{2873}, \frac{1091}{2873}, -\frac{183}{2873}, \frac{1464}{2873}, \frac{813}{2873}, -\frac{88}{2873})$ $+\frac{30}{2873}\sqrt{15229e^2} \otimes e_4$	{2358, 25678, 347, 46}
952:65	$0, 0, 0, 0, \frac{1}{1543}\sqrt{151514e^{12}}, \frac{1}{1543}\sqrt{603922e^{13}}, \frac{1}{1543}\sqrt{736230e^{23}},$ $\frac{2}{1543}\sqrt{224070e^{15}}, \frac{1}{1543}\sqrt{330770e^{24}} + \frac{11}{1543}\sqrt{7954e^{36}}$	$(-\frac{372}{1543}, \frac{141}{1543}, \frac{464}{1543}, \frac{415}{1543}, -\frac{231}{1543}, \frac{92}{1543}, \frac{605}{1543}, -\frac{603}{1543}, \frac{556}{1543})$ $+\frac{1}{1543}\sqrt{2737922e^3} \otimes e_8$	{123459, 1689, 236, 458}
952:65	$0, 0, 0, 0, \frac{102}{1423}\sqrt{65e^{12}}, \frac{34}{1423}\sqrt{105e^{13}}, \frac{34}{1423}\sqrt{1230e^{23}},$ $\frac{17}{1423}\sqrt{870e^{15}}, \frac{17}{1423}\sqrt{4710e^{24}} + \frac{68}{1423}\sqrt{155e^{36}}$	$(\frac{408}{1423}, -\frac{510}{1423}, \frac{17}{1423}, \frac{952}{1423}, -\frac{102}{1423}, \frac{425}{1423}, -\frac{493}{1423}, \frac{306}{1423}, \frac{442}{1423})$ $+\frac{34}{1423}\sqrt{3010e^4} \otimes e_7$	{12579, 1489, 234, 3578}
952:66	$0, 0, 0, 0, \frac{30}{1573}\sqrt{138e^{12}}, \frac{30}{1573}\sqrt{59e^{13}}, \frac{15}{1573}\sqrt{802e^{23}},$ $\frac{15}{1573}\sqrt{366e^{25}}, \frac{30}{1573}\sqrt{231e^{14}} + \frac{15}{1573}\sqrt{58e^{36}}$	$(\frac{15}{143}, \frac{90}{1573}, -\frac{150}{1573}, -\frac{300}{1573}, \frac{255}{1573}, \frac{15}{1573}, -\frac{60}{1573}, \frac{345}{1573}, -\frac{135}{1573})$ $+\frac{15}{1573}\sqrt{1246e^1} \otimes e_7 + \frac{30}{1573}\sqrt{394e^2} \otimes e_9$	{123468, 3479}
952:66	$0, 0, 0, 0, \frac{3}{584}\sqrt{26765e^{12}}, \frac{3}{584}\sqrt{26765e^{13}}, \frac{3}{584}\sqrt{24486e^{23}}, \frac{9}{292}\sqrt{318e^{25}},$ $\frac{3}{584}\sqrt{20670e^{14}} + \frac{3}{584}\sqrt{18338e^{36}}$	$(\frac{137}{292}, -\frac{1}{16}, -\frac{203}{1168}, -\frac{203}{584}, \frac{475}{1168}, \frac{345}{1168}, -\frac{69}{292}, \frac{201}{584}, \frac{71}{584})$ $+\frac{3}{584}\sqrt{52046e^1} \otimes e_4$	{234567, 245, 346, 47}
952:66	$0, 0, 0, 0, \frac{1}{116}\sqrt{1635e^{12}}, \frac{1}{116}\sqrt{1635e^{13}}, \frac{1}{58}\sqrt{109e^{23}}, \frac{1}{58}\sqrt{2071e^{25}},$ $\frac{1}{116}\sqrt{10246e^{14}} + \frac{1}{58}\sqrt{545e^{36}}$	$(-\frac{13}{116}, -\frac{27}{232}, \frac{69}{232}, \frac{69}{116}, -\frac{53}{232}, \frac{43}{116}, \frac{21}{116}, -\frac{10}{29}, \frac{14}{29})$ $+\frac{1}{116}\sqrt{21146e^4} \otimes e_8$	{238, 2678, 3578, 568}
952:66	$0, 0, 0, 0, \frac{21}{3671}\sqrt{122e^{12}}, \frac{7}{3671}\sqrt{2418e^{13}}, \frac{56}{3671}\sqrt{69e^{23}}, \frac{63}{3671}\sqrt{6e^{25}},$ $\frac{7}{3671}\sqrt{4254e^{14}} + \frac{28}{3671}\sqrt{119e^{36}}$	$(-\frac{210}{3671}, \frac{63}{3671}, \frac{112}{3671}, \frac{224}{3671}, -\frac{147}{3671}, -\frac{98}{3671}, \frac{175}{3671}, -\frac{84}{3671}, \frac{14}{3671})$ $+\frac{28}{3671}\sqrt{165e^2} \otimes e_9 + \frac{28}{3671}\sqrt{274e^4} \otimes e_7$	{136789, 267}
952:66	$0, 0, 0, 0, \frac{116}{6125}\sqrt{149e^{12}}, \frac{29}{6125}\sqrt{5502e^{13}}, \frac{29}{6125}\sqrt{2854e^{23}},$ $\frac{116}{6125}\sqrt{215e^{25}}, \frac{29}{6125}\sqrt{3786e^{14}} + \frac{29}{6125}\sqrt{4702e^{36}}$	$(\frac{957}{6125}, -\frac{174}{1225}, \frac{58}{6125}, \frac{116}{6125}, \frac{87}{6125}, \frac{29}{6125}, -\frac{116}{875}, -\frac{783}{6125}, \frac{1073}{6125})$ $+\frac{116}{6125}\sqrt{299e^1} \otimes e_4 + \frac{58}{6125}\sqrt{1559e^3} \otimes e_8$	{234567, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:66	$0, 0, 0, 0, \frac{74}{4541}\sqrt{771}e^{12}, \frac{37}{4541}\sqrt{746}e^{13}, \frac{37}{4541}\sqrt{826}e^{23},$ $\frac{148}{4541}\sqrt{138}e^{25}, \frac{111}{4541}\sqrt{10}e^{14} + \frac{37}{4541}\sqrt{2238}e^{36}$	$(\frac{333}{4541}, \frac{666}{4541}, -\frac{518}{4541}, -\frac{1036}{4541}, \frac{999}{4541}, -\frac{185}{4541}, \frac{148}{4541}, \frac{1665}{4541}, -\frac{37}{239})$ $+ \frac{74}{4541}\sqrt{1169}e^2 \otimes e_9 + \frac{74}{4541}\sqrt{821}e^1 \otimes e_4$	{234567, 245}
952:66	$0, 0, 0, 0, \frac{558}{6869}\sqrt{5}e^{12}, \frac{155}{6869}\sqrt{78}e^{13}, \frac{31}{6869}\sqrt{1234}e^{23},$ $\frac{62}{6869}\sqrt{1042}e^{25}, \frac{31}{6869}\sqrt{4366}e^{14} + \frac{31}{6869}\sqrt{970}e^{36}$	$(-\frac{1333}{6869}, \frac{744}{6869}, \frac{558}{6869}, \frac{1116}{6869}, -\frac{589}{6869}, -\frac{775}{6869}, \frac{1302}{6869}, \frac{155}{6869}, -\frac{217}{6869})$ $+ \frac{62}{6869}\sqrt{1307}e^4 \otimes e_8 + \frac{62}{6869}\sqrt{1785}e^2 \otimes e_9$	{3479, 469}
952:66	$0, 0, 0, 0, \frac{4}{1223}\sqrt{1905}e^{12}, \frac{1}{1223}\sqrt{681990}e^{13}, \frac{1}{1223}\sqrt{138430}e^{23},$ $\frac{2}{1223}\sqrt{140970}e^{25}, \frac{1}{1223}\sqrt{384810}e^{14} + \frac{1}{1223}\sqrt{27686}e^{36}$	$(-\frac{61}{1223}, -\frac{162}{1223}, \frac{250}{1223}, \frac{500}{1223}, \frac{223}{1223}, \frac{189}{1223}, \frac{88}{1223}, -\frac{385}{1223}, \frac{439}{1223})$ $+ \frac{6}{1223}\sqrt{36195}e^3 \otimes e_8$	{124689, 1456789, 234567, 346}
952:66	$0, 0, 0, 0, \frac{112}{1887}\sqrt{6}e^{12}, \frac{7}{1887}\sqrt{1614}e^{13}, \frac{7}{629}\sqrt{26}e^{23}, \frac{28}{1887}\sqrt{231}e^{25},$ $\frac{7}{629}\sqrt{26}e^{14} + \frac{7}{1887}\sqrt{3774}e^{36}$	$(-\frac{91}{629}, \frac{42}{629}, \frac{42}{629}, \frac{84}{629}, -\frac{49}{629}, -\frac{49}{629}, \frac{84}{629}, -\frac{7}{629}, -\frac{7}{629})$ $+ \frac{28}{1887}\sqrt{309}e^2 \otimes e_9 + \frac{70}{1887}\sqrt{51}e^3 \otimes e_8$	{145689, 23456}
952:66	$0, 0, 0, 0, \frac{1}{4}\sqrt{5}e^{12}, \frac{1}{4}\sqrt{5}e^{13}, \frac{1}{4}\sqrt{10}e^{23}, \frac{1}{2}e^{25},$ $\frac{1}{2}\sqrt{2}e^{14} + \frac{1}{4}\sqrt{6}e^{36}$	$(0, -\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{10}e^4 \otimes e_7 + \frac{1}{4}\sqrt{2}e^1 \otimes e_8$	{125789, 136789, 267, 357}
952:66	$0, 0, 0, 0, \frac{1}{4}\sqrt{5}e^{12}, \frac{1}{4}\sqrt{5}e^{13}, \frac{1}{4}\sqrt{10}e^{23}, \frac{1}{2}e^{25},$ $\frac{1}{2}\sqrt{2}e^{14} + \frac{1}{4}\sqrt{6}e^{36}$	$(0, -\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{10}e^4 \otimes e_7 - \frac{1}{4}\sqrt{2}e^1 \otimes e_8$	{125789, 136789, 267, 357}
952:66	$0, 0, 0, 0, \frac{3}{1241}\sqrt{49654}e^{12}, \frac{61}{1241}\sqrt{66}e^{13}, \frac{4}{1241}\sqrt{12749}e^{23},$ $\frac{11}{1241}\sqrt{4026}e^{25}, \frac{1}{1241}\sqrt{366366}e^{14} + \frac{4}{1241}\sqrt{22814}e^{36}$	$(-\frac{214}{1241}, \frac{393}{1241}, -\frac{32}{1241}, -\frac{64}{1241}, \frac{179}{1241}, -\frac{246}{1241}, \frac{361}{1241}, \frac{572}{1241}, -\frac{278}{1241})$ $+ \frac{4}{1241}\sqrt{86559}e^2 \otimes e_9$	{123468, 12478, 3479, 469}
952:66	$0, 0, 0, 0, \frac{36}{277}e^{12}, \frac{81}{277}\sqrt{2}e^{13}, \frac{9}{277}\sqrt{58}e^{23}, \frac{90}{277}e^{25},$ $\frac{9}{277}\sqrt{6}e^{14} + \frac{9}{277}\sqrt{102}e^{36}$	$(\frac{45}{277}, -\frac{54}{277}, \frac{18}{277}, \frac{36}{277}, -\frac{9}{277}, \frac{63}{277}, -\frac{36}{277}, -\frac{63}{277}, \frac{81}{277})$ $+ \frac{126}{277}e^1 \otimes e_7 + \frac{18}{277}\sqrt{73}e^3 \otimes e_8$	{145689, 3467}
952:66	$0, 0, 0, 0, \frac{56}{251}\sqrt{6}e^{12}, \frac{14}{251}\sqrt{141}e^{13}, \frac{14}{251}\sqrt{213}e^{23}, \frac{21}{251}\sqrt{46}e^{25},$ $\frac{7}{251}\sqrt{834}e^{14} + \frac{14}{251}\sqrt{173}e^{36}$	$(\frac{42}{251}, -\frac{42}{251}, \frac{7}{251}, \frac{14}{251}, 0, \frac{49}{251}, -\frac{35}{251}, -\frac{42}{251}, \frac{56}{251})$ $+ \frac{14}{251}\sqrt{223}e^4 \otimes e_7 + \frac{42}{251}\sqrt{10}e^3 \otimes e_8$	{136789, 267}
952:66	$0, 0, 0, 0, \frac{1}{19}\sqrt{78}e^{12}, \frac{1}{19}\sqrt{78}e^{13}, \frac{2}{19}\sqrt{42}e^{23}, \frac{3}{19}\sqrt{6}e^{25},$ $\frac{5}{19}\sqrt{6}e^{14} + \frac{2}{19}\sqrt{26}e^{36}$	$(\frac{6}{95}, -\frac{3}{19}, \frac{2}{19}, \frac{4}{19}, -\frac{9}{95}, \frac{16}{95}, -\frac{1}{19}, -\frac{24}{95}, \frac{26}{95})$ $+ \frac{2}{19}\sqrt{46}e^4 \otimes e_7$	{125789, 136789, 267, 357}
952:66	$0, 0, 0, 0, \frac{2}{291}\sqrt{2390}e^{12}, \frac{2}{291}\sqrt{2390}e^{13}, \frac{1}{291}\sqrt{52102}e^{23}, \frac{1}{291}\sqrt{10038}e^{25},$ $\frac{2}{291}\sqrt{12189}e^{14} + \frac{1}{291}\sqrt{26290}e^{36}$	$(\frac{149}{291}, -\frac{62}{291}, -\frac{28}{291}, -\frac{56}{291}, \frac{29}{291}, \frac{121}{291}, -\frac{30}{291}, \frac{25}{291}, \frac{31}{291})$ $+ \frac{7}{291}\sqrt{2390}e^1 \otimes e_7$	{1234, 1456, 245789, 346789}
952:66	$0, 0, 0, 0, \frac{46}{1501}\sqrt{10}e^{12}, \frac{46}{1501}\sqrt{10}e^{13}, \frac{23}{1501}\sqrt{678}e^{23}, \frac{23}{1501}\sqrt{298}e^{25},$ $\frac{46}{1501}\sqrt{301}e^{14} + \frac{23}{1501}\sqrt{530}e^{36}$	$(\frac{299}{1501}, -\frac{322}{1501}, \frac{92}{1501}, \frac{184}{1501}, -\frac{23}{1501}, \frac{391}{1501}, -\frac{230}{1501}, -\frac{345}{1501}, \frac{483}{1501})$ $+ \frac{23}{1501}\sqrt{1430}e^1 \otimes e_7 + \frac{368}{1501}\sqrt{5}e^4 \otimes e_8$	{2678, 3578}
952:67	$0, 0, 0, 0, \frac{24}{853}\sqrt{435}e^{12}, \frac{24}{853}\sqrt{249}e^{13}, \frac{24}{853}\sqrt{87}e^{23}, \frac{12}{853}\sqrt{1590}e^{25},$ $\frac{12}{853}\sqrt{546}e^{16} + \frac{24}{853}\sqrt{435}e^{34}$	$(-\frac{75}{853}, \frac{240}{853}, -\frac{42}{853}, -\frac{150}{853}, \frac{165}{853}, -\frac{117}{853}, \frac{198}{853}, \frac{405}{853}, -\frac{192}{853})$ $+ \frac{12}{853}\sqrt{4278}e^2 \otimes e_9$	{123468, 14589, 2345, 469}
952:67	$0, 0, 0, 0, \frac{36}{2711}\sqrt{215}e^{12}, \frac{108}{2711}\sqrt{93}e^{13}, \frac{144}{2711}\sqrt{46}e^{23},$ $\frac{36}{2711}\sqrt{202}e^{25}, \frac{72}{2711}\sqrt{183}e^{16} + \frac{36}{2711}\sqrt{321}e^{34}$	$(\frac{306}{2711}, -\frac{432}{2711}, \frac{90}{2711}, \frac{612}{2711}, -\frac{126}{2711}, \frac{396}{2711}, -\frac{342}{2711}, -\frac{558}{2711}, \frac{702}{2711})$ $+ \frac{1332}{2711}e^1 \otimes e_7 + \frac{36}{2711}\sqrt{1051}e^3 \otimes e_8$	{123459, 2478}
952:67	$0, 0, 0, 0, \frac{16}{545}e^{12}, \frac{16}{545}\sqrt{218}e^{13}, \frac{16}{545}\sqrt{2}e^{23}, \frac{16}{109}\sqrt{5}e^{25},$ $\frac{64}{545}\sqrt{10}e^{16} + \frac{16}{545}\sqrt{106}e^{34}$	$(-\frac{4}{545}, -\frac{64}{545}, \frac{24}{109}, -\frac{8}{545}, -\frac{68}{545}, \frac{116}{545}, \frac{56}{545}, -\frac{132}{545}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^3 \otimes e_4 - \frac{48}{545}\sqrt{35}e^1 \otimes e_8$	{12456, 1467, 248, 4578}
952:67	$0, 0, 0, 0, \frac{16}{545}e^{12}, \frac{16}{545}\sqrt{218}e^{13}, \frac{16}{545}\sqrt{2}e^{23}, \frac{16}{109}\sqrt{5}e^{25},$ $\frac{64}{545}\sqrt{10}e^{16} + \frac{16}{545}\sqrt{106}e^{34}$	$(-\frac{4}{545}, -\frac{64}{545}, \frac{24}{109}, -\frac{8}{545}, -\frac{68}{545}, \frac{116}{545}, \frac{56}{545}, -\frac{132}{545}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^3 \otimes e_4 + \frac{48}{545}\sqrt{35}e^1 \otimes e_8$	{12456, 1467, 248, 4578}
952:67	$0, 0, 0, 0, \frac{1}{1203}\sqrt{115370}e^{12}, \frac{8}{1203}\sqrt{9035}e^{13}, \frac{5}{1203}\sqrt{25854}e^{23},$ $\frac{14}{1203}\sqrt{695}e^{25}, \frac{1}{1203}\sqrt{793690}e^{16} + \frac{1}{1203}\sqrt{593530}e^{34}$	$(\frac{299}{1203}, -\frac{113}{1203}, -\frac{283}{1203}, \frac{598}{1203}, \frac{62}{1203}, \frac{16}{1203}, -\frac{132}{401}, \frac{73}{1203}, \frac{105}{401})$ $+ \frac{4}{1203}\sqrt{89655}e^1 \otimes e_7$	{1234589, 1468, 247, 345679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:67	$0, 0, 0, 0, \frac{1}{95}\sqrt{5146e^{12}}, \frac{2}{95}\sqrt{1577e^{13}}, \frac{1}{95}\sqrt{7138e^{23}}, \frac{2}{95}\sqrt{415e^{25}},$ $\frac{1}{19}\sqrt{166e^{16}} + \frac{1}{95}\sqrt{5146e^{34}}$	$(-\frac{1}{5}, \frac{11}{95}, \frac{9}{19}, -\frac{2}{5}, -\frac{8}{95}, \frac{26}{95}, \frac{56}{95}, \frac{3}{95}, \frac{7}{95})$ $+ \frac{2}{95}\sqrt{3403e^3} \otimes e_4$	{1245678, 1468, 247, 45}
952:67	$0, 0, 0, 0, \frac{1}{198}\sqrt{15355e^{12}}, \frac{1}{594}\sqrt{58930e^{13}}, \frac{1}{297}\sqrt{42330e^{23}},$ $\frac{1}{297}\sqrt{55195e^{25}}, \frac{1}{594}\sqrt{115370e^{16}} + \frac{2}{297}\sqrt{17430e^{34}}$	$(\frac{43}{198}, -\frac{13}{54}, \frac{49}{1188}, \frac{43}{99}, -\frac{7}{27}, \frac{307}{1188}, -\frac{79}{396}, -\frac{157}{594}, \frac{565}{1188})$ $+ \frac{1}{198}\sqrt{46895e^4} \otimes e_8$	{1236789, 128, 135689, 1578}
952:67	$0, 0, 0, 0, \frac{24}{137}\sqrt{3e^{12}}, \frac{3}{137}\sqrt{6e^{13}}, \frac{3}{137}\sqrt{330e^{23}}, \frac{6}{137}\sqrt{69e^{25}},$ $\frac{3}{137}\sqrt{258e^{16}} + \frac{24}{137}\sqrt{3e^{34}}$	$(-\frac{39}{274}, \frac{30}{137}, \frac{15}{137}, -\frac{39}{137}, \frac{21}{274}, -\frac{9}{274}, \frac{45}{137}, \frac{81}{274}, -\frac{24}{137})$ $+ \frac{27}{137}\sqrt{6e^3} \otimes e_4 + \frac{6}{137}\sqrt{237e^2} \otimes e_9$	{14589, 469}
952:67	$0, 0, 0, 0, \frac{4}{2343}\sqrt{22190e^{12}}, \frac{4}{2343}\sqrt{114754e^{13}}, \frac{4}{2343}\sqrt{212073e^{23}},$ $\frac{4}{2343}\sqrt{30749e^{25}}, \frac{4}{2343}\sqrt{44063e^{16}} + \frac{20}{2343}\sqrt{9193e^{34}}$	$(\frac{809}{2343}, -\frac{8}{71}, -\frac{218}{781}, \frac{1618}{2343}, \frac{545}{2343}, \frac{155}{2343}, -\frac{306}{781}, \frac{281}{2343}, \frac{964}{2343})$ $+ \frac{4}{2343}\sqrt{622905e^4} \otimes e_7$	{127, 135679, 25678, 3789}
952:67	$0, 0, 0, 0, \frac{33}{7357}\sqrt{362e^{12}}, \frac{88}{7357}\sqrt{89e^{13}}, \frac{11}{7357}\sqrt{6670e^{23}},$ $\frac{22}{7357}\sqrt{487e^{25}}, \frac{11}{7357}\sqrt{5818e^{16}} + \frac{11}{7357}\sqrt{5786e^{34}}$	$(\frac{11}{1051}, -\frac{319}{7357}, \frac{275}{7357}, \frac{22}{1051}, -\frac{242}{7357}, \frac{352}{7357}, -\frac{44}{7357}, -\frac{561}{7357}, \frac{429}{7357})$ $+ \frac{44}{7357}\sqrt{394e^3} \otimes e_4 + \frac{44}{7357}\sqrt{474e^1} \otimes e_7$	{1468, 247}
952:67	$0, 0, 0, 0, \frac{18}{6925}\sqrt{1117e^{12}}, \frac{18}{6925}\sqrt{653e^{13}}, \frac{9}{6925}\sqrt{1870e^{23}},$ $\frac{18}{6925}\sqrt{1310e^{25}}, \frac{9}{6925}\sqrt{994e^{16}} + \frac{9}{6925}\sqrt{6442e^{34}}$	$(\frac{171}{6925}, \frac{9}{1385}, -\frac{378}{6925}, \frac{342}{6925}, \frac{216}{6925}, -\frac{207}{6925}, -\frac{333}{6925}, \frac{261}{6925}, -\frac{36}{6925})$ $+ \frac{27}{6925}\sqrt{658e^4} \otimes e_8 + \frac{738}{6925}e^2 \otimes e_9$	{128, 135689}
952:67	$0, 0, 0, 0, \frac{108}{6805}\sqrt{139e^{12}}, \frac{27}{6805}\sqrt{194e^{13}}, \frac{54}{6805}\sqrt{287e^{23}},$ $\frac{27}{6805}\sqrt{4154e^{25}}, \frac{27}{6805}\sqrt{710e^{16}} + \frac{27}{6805}\sqrt{3982e^{34}}$	$(-\frac{621}{6805}, \frac{81}{1361}, \frac{918}{6805}, -\frac{1242}{6805}, -\frac{216}{6805}, \frac{297}{6805}, \frac{1323}{6805}, \frac{189}{6805}, -\frac{324}{6805})$ $+ \frac{27}{6805}\sqrt{6838e^2} \otimes e_9 + \frac{81}{6805}\sqrt{586e^3} \otimes e_8$	{14589, 2345}
952:67	$0, 0, 0, 0, \frac{9}{424}\sqrt{190e^{12}}, \frac{9}{106}\sqrt{11e^{13}}, \frac{9}{848}\sqrt{542e^{23}}, \frac{9}{212}\sqrt{35e^{25}},$ $\frac{9}{424}\sqrt{26e^{16}} + \frac{45}{848}\sqrt{46e^{34}}$	$(\frac{45}{848}, \frac{45}{424}, -\frac{81}{424}, \frac{45}{424}, \frac{135}{848}, -\frac{117}{848}, -\frac{9}{106}, \frac{225}{848}, -\frac{9}{106})$ $- \frac{27}{848}\sqrt{130e^4} \otimes e_7 + \frac{9}{848}\sqrt{1882e^2} \otimes e_9$	{123468, 14589, 2345, 469}
952:67	$0, 0, 0, 0, \frac{9}{424}\sqrt{190e^{12}}, \frac{9}{106}\sqrt{11e^{13}}, \frac{9}{848}\sqrt{542e^{23}}, \frac{9}{212}\sqrt{35e^{25}},$ $\frac{9}{424}\sqrt{26e^{16}} + \frac{45}{848}\sqrt{46e^{34}}$	$(\frac{45}{848}, \frac{45}{424}, -\frac{81}{424}, \frac{45}{424}, \frac{135}{848}, \frac{117}{848}, -\frac{9}{106}, \frac{225}{848}, -\frac{9}{106})$ $+ \frac{27}{848}\sqrt{130e^4} \otimes e_7 + \frac{9}{848}\sqrt{1882e^2} \otimes e_9$	{123468, 14589, 2345, 469}
952:67	$0, 0, 0, 0, \frac{98}{6969}\sqrt{127e^{12}}, \frac{49}{6969}\sqrt{842e^{13}}, \frac{49}{2323}\sqrt{298e^{23}},$ $\frac{49}{6969}\sqrt{1894e^{25}}, \frac{833}{6969}\sqrt{2e^{16}} + \frac{196}{6969}\sqrt{229e^{34}}$	$(\frac{833}{6969}, -\frac{441}{2323}, \frac{196}{2323}, \frac{1666}{6969}, -\frac{490}{6969}, \frac{1421}{6969}, -\frac{245}{2323}, -\frac{1813}{6969}, \frac{98}{303})$ $+ \frac{49}{6969}\sqrt{5574e^4} \otimes e_7 + \frac{49}{6969}\sqrt{6942e^3} \otimes e_8$	{12345, 4589}
952:67	$0, 0, 0, 0, \frac{2}{2541}\sqrt{148255e^{12}}, \frac{2}{2541}\sqrt{627845e^{13}}, \frac{2}{2541}\sqrt{247755e^{23}},$ $\frac{4}{2541}\sqrt{190045e^{25}}, \frac{2}{2541}\sqrt{16915e^{16}} + \frac{4}{2541}\sqrt{136315e^{34}}$	$(-\frac{7}{363}, -\frac{138}{847}, \frac{53}{121}, -\frac{14}{363}, -\frac{463}{2541}, \frac{152}{363}, \frac{233}{847}, -\frac{877}{2541}, \frac{145}{363})$ $+ \frac{2}{2541}\sqrt{2080545e^3} \otimes e_8$	{12359, 1379, 278, 58}
952:67	$0, 0, 0, 0, \frac{27}{4891}\sqrt{1390e^{12}}, \frac{54}{4891}\sqrt{139e^{13}}, \frac{54}{4891}\sqrt{563e^{23}},$ $\frac{270}{4891}\sqrt{11e^{25}}, \frac{54}{4891}\sqrt{701e^{16}} + \frac{54}{4891}\sqrt{5e^{34}}$	$(\frac{270}{4891}, \frac{405}{4891}, -\frac{864}{4891}, \frac{540}{4891}, \frac{675}{4891}, -\frac{594}{4891}, -\frac{459}{4891}, \frac{1080}{4891}, -\frac{324}{4891})$ $+ \frac{54}{4891}\sqrt{1123e^2} \otimes e_9 + \frac{81}{4891}\sqrt{470e^1} \otimes e_7$	{2457, 34679}
952:67	$0, 0, 0, 0, \frac{5}{233}\sqrt{110e^{12}}, \frac{10}{233}\sqrt{110e^{13}}, \frac{5}{233}\sqrt{330e^{23}}, \frac{10}{233}\sqrt{55e^{25}},$ $\frac{25}{233}\sqrt{22e^{16}} + \frac{5}{233}\sqrt{110e^{34}}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, -\frac{15}{233}, \frac{75}{233})$ $+ \frac{10}{233}\sqrt{170e^4} \otimes e_8 + \frac{10}{233}\sqrt{335e^1} \otimes e_7$	{2457, 34679}
952:68	$0, 0, 0, 0, \frac{12}{2573}\sqrt{2114e^{12}}, \frac{108}{2573}\sqrt{151e^{13}}, \frac{6}{2573}\sqrt{69611e^{23}},$ $\frac{6}{2573}\sqrt{114458e^{25}}, \frac{12}{2573}\sqrt{28690e^{24}} + \frac{6}{2573}\sqrt{1963e^{36}}$	$(\frac{187}{2573}, -\frac{546}{2573}, \frac{540}{2573}, \frac{1813}{2573}, -\frac{359}{2573}, \frac{727}{2573}, -\frac{6}{2573}, -\frac{905}{2573}, \frac{1267}{2573})$ $+ \frac{6}{2573}\sqrt{319818e^4} \otimes e_8$	{1349, 14679, 3568, 578}
952:68	$0, 0, 0, 0, \frac{4}{893}\sqrt{649e^{12}}, \frac{8}{893}\sqrt{4189e^{13}}, \frac{4}{893}\sqrt{1770e^{23}}, \frac{4}{893}\sqrt{20945e^{25}},$ $\frac{4}{893}\sqrt{11918e^{24}} + \frac{4}{893}\sqrt{20945e^{36}}$	$(-\frac{150}{893}, -\frac{49}{893}, \frac{224}{893}, \frac{347}{893}, -\frac{199}{893}, \frac{74}{893}, \frac{175}{893}, -\frac{248}{893}, \frac{298}{893})$ $+ \frac{8}{893}\sqrt{11033e^3} \otimes e_8$	{1246789, 15689, 2356, 3467}
952:68	$0, 0, 0, 0, \frac{2}{431}\sqrt{22287e^{12}}, \frac{1}{431}\sqrt{69046e^{13}}, \frac{46}{431}\sqrt{38e^{23}}, \frac{2}{431}\sqrt{2185e^{25}},$ $\frac{46}{431}\sqrt{19e^{24}} + \frac{2}{431}\sqrt{2185e^{36}}$	$(\frac{250}{431}, -\frac{82}{431}, -\frac{105}{431}, \frac{122}{431}, \frac{168}{431}, \frac{145}{431}, -\frac{187}{431}, \frac{86}{431}, \frac{40}{431})$ $+ \frac{1}{431}\sqrt{310270e^1} \otimes e_7$	{123489, 15689, 257, 3467}
952:68	$0, 0, 0, 0, \frac{60}{2519}\sqrt{1069e^{12}}, \frac{360}{2519}\sqrt{11e^{13}}, \frac{420}{2519}\sqrt{10e^{23}},$ $\frac{60}{2519}\sqrt{937e^{25}}, \frac{60}{2519}\sqrt{782e^{24}} + \frac{60}{2519}\sqrt{221e^{36}}$	$(-\frac{302}{2519}, \frac{805}{2519}, \frac{56}{2519}, -\frac{995}{2519}, \frac{503}{2519}, -\frac{246}{2519}, \frac{861}{2519}, \frac{1308}{2519}, -\frac{190}{2519})$ $+ \frac{120}{2519}\sqrt{537e^2} \otimes e_4$	{12368, 1278, 1345678, 1458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:68	$0, 0, 0, 0, \frac{2193}{7465}\sqrt{2}e^{12}, \frac{43}{7465}\sqrt{458}e^{13}, \frac{43}{7465}\sqrt{3410}e^{23}, \frac{43}{7465}\sqrt{3074}e^{25}, \frac{86}{7465}\sqrt{907}e^{24} + \frac{43}{7465}\sqrt{510}e^{36}$	$(\frac{1247}{7465}, \frac{473}{7465}, -\frac{215}{1493}, -\frac{1376}{7465}, \frac{344}{1493}, \frac{172}{7465}, -\frac{602}{7465}, \frac{2193}{7465}, -\frac{903}{7465}) + \frac{43}{7465}\sqrt{5926}e^1 \otimes e_7 + \frac{86}{7465}\sqrt{1923}e^2 \otimes e_4$	{12368, 1458}
952:68	$0, 0, 0, 0, \frac{59}{5641}\sqrt{1146}e^{12}, \frac{413}{5641}\sqrt{34}e^{13}, \frac{59}{5641}\sqrt{326}e^{23}, \frac{59}{5641}\sqrt{1622}e^{25}, \frac{236}{5641}\sqrt{65}e^{24} + \frac{177}{5641}\sqrt{2}e^{36}$	$(\frac{1829}{5641}, -\frac{1357}{5641}, -\frac{295}{5641}, \frac{2596}{5641}, \frac{472}{5641}, \frac{1534}{5641}, -\frac{1652}{5641}, -\frac{885}{5641}, \frac{1239}{5641}) + \frac{118}{5641}\sqrt{1203}e^4 \otimes e_8 + \frac{295}{5641}\sqrt{202}e^1 \otimes e_7$	{12389, 2457}
952:68	$0, 0, 0, 0, \frac{1}{14}\sqrt{14}e^{12}, \frac{1}{14}\sqrt{34}e^{13}, \frac{1}{14}\sqrt{30}e^{23}, \frac{1}{14}\sqrt{30}e^{25}, \frac{1}{14}\sqrt{2}e^{24} + \frac{1}{14}\sqrt{30}e^{36}$	$(0, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{2}{7}, \frac{2}{7}) + \frac{1}{2}\sqrt{2}e^3 \otimes e_8 - \frac{5}{14}\sqrt{2}e^4 \otimes e_7$	{123459, 1379, 278, 458}
952:68	$0, 0, 0, 0, \frac{1}{14}\sqrt{14}e^{12}, \frac{1}{14}\sqrt{34}e^{13}, \frac{1}{14}\sqrt{30}e^{23}, \frac{1}{14}\sqrt{30}e^{25}, \frac{1}{14}\sqrt{2}e^{24} + \frac{1}{14}\sqrt{30}e^{36}$	$(0, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{2}{7}, \frac{2}{7}) + \frac{1}{2}\sqrt{2}e^3 \otimes e_8 + \frac{5}{14}\sqrt{2}e^4 \otimes e_7$	{123459, 1379, 278, 458}
952:68	$0, 0, 0, 0, \frac{26}{2305}\sqrt{309}e^{12}, \frac{39}{2305}\sqrt{406}e^{13}, \frac{52}{2305}\sqrt{102}e^{23}, \frac{26}{2305}\sqrt{843}e^{25}, \frac{78}{461}\sqrt{3}e^{24} + \frac{26}{2305}\sqrt{843}e^{36}$	$(\frac{234}{2305}, -\frac{338}{2305}, \frac{13}{461}, \frac{702}{2305}, -\frac{104}{2305}, \frac{299}{2305}, -\frac{273}{2305}, -\frac{442}{2305}, \frac{364}{2305}) + \frac{13}{2305}\sqrt{4782}e^1 \otimes e_7 + \frac{52}{2305}\sqrt{471}e^3 \otimes e_8$	{15689, 3467}
952:68	$0, 0, 0, 0, \frac{1}{56}\sqrt{154}e^{12}, \frac{1}{56}\sqrt{70}e^{13}, \frac{3}{112}\sqrt{42}e^{23}, \frac{1}{112}\sqrt{1218}e^{25}, \frac{1}{14}\sqrt{14}e^{24} + \frac{1}{4}e^{36}$	$(-\frac{3}{16}, \frac{3}{32}, \frac{1}{8}, -\frac{1}{32}, -\frac{3}{32}, -\frac{1}{16}, \frac{7}{32}, 0, \frac{1}{16}) + \frac{1}{112}\sqrt{1302}e^2 \otimes e_4 + \frac{1}{112}\sqrt{1526}e^3 \otimes e_8$	{2356, 3467}
952:68	$0, 0, 0, 0, \frac{12}{749}\sqrt{1743}e^{12}, \frac{8}{749}\sqrt{498}e^{13}, \frac{12}{749}\sqrt{3154}e^{23}, \frac{4}{749}\sqrt{16351}e^{25}, \frac{4}{749}\sqrt{27390}e^{24} + \frac{4}{749}\sqrt{16351}e^{36}$	$(\frac{42}{107}, -\frac{205}{749}, -\frac{40}{749}, \frac{419}{749}, \frac{89}{749}, \frac{254}{749}, -\frac{35}{107}, -\frac{116}{749}, \frac{2}{7}) + \frac{8}{749}\sqrt{13861}e^4 \otimes e_7$	{125789, 1489, 234, 357}
952:69	$0, 0, 0, 0, \frac{2}{393}\sqrt{870}e^{12}, \frac{4}{393}\sqrt{30}e^{13}, \frac{10}{131}\sqrt{6}e^{14}, \frac{1}{131}\sqrt{210}e^{15}, \frac{4}{393}\sqrt{30}e^{16} + \frac{1}{131}\sqrt{530}e^{23}$	$(-\frac{10}{393}, -\frac{20}{393}, \frac{11}{131}, \frac{28}{393}, -\frac{10}{131}, \frac{23}{393}, \frac{6}{131}, -\frac{40}{393}, \frac{13}{393}) + \frac{5}{393}\sqrt{222}e^3 \otimes e_7 + \frac{5}{393}\sqrt{222}e^4 \otimes e_9$	{3569, 457}
952:69	$0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{3}{25}\sqrt{14}e^{13}, \frac{1}{25}\sqrt{42}e^{14}, \frac{3}{25}\sqrt{42}e^{15}, \frac{2}{25}\sqrt{42}e^{16} + \frac{3}{25}\sqrt{42}e^{23}$	$(-\frac{2}{25}, -\frac{4}{25}, \frac{13}{25}, \frac{1}{5}, -\frac{6}{25}, \frac{11}{25}, \frac{3}{25}, -\frac{8}{25}, \frac{9}{25}) + \frac{21}{25}\sqrt{2}e^3 \otimes e_8$	{123457, 1235, 2346, 2367}
952:69	$0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{1}{79}\sqrt{2590}e^{13}, \frac{2}{79}\sqrt{665}e^{14}, \frac{5}{79}\sqrt{42}e^{15}, \frac{1}{79}\sqrt{2590}e^{16} + \frac{1}{79}\sqrt{3010}e^{23}$	$(\frac{6}{79}, \frac{12}{79}, \frac{3}{79}, -\frac{29}{79}, \frac{18}{79}, \frac{9}{79}, -\frac{23}{79}, \frac{24}{79}, \frac{15}{79}) + \frac{70}{79}e^2 \otimes e_7$	{135679, 157, 3479, 467}
952:69	$0, 0, 0, 0, \frac{13}{4661}\sqrt{462}e^{12}, \frac{13}{4661}\sqrt{3102}e^{13}, \frac{26}{4661}\sqrt{1121}e^{14}, \frac{26}{4661}\sqrt{87}e^{15}, \frac{13}{4661}\sqrt{1838}e^{16} + \frac{130}{4661}\sqrt{46}e^{23}$	$(\frac{117}{4661}, \frac{234}{4661}, -\frac{455}{4661}, -\frac{52}{4661}, \frac{351}{4661}, -\frac{338}{4661}, \frac{65}{4661}, \frac{468}{4661}, -\frac{221}{4661}) + \frac{13}{4661}\sqrt{4942}e^2 \otimes e_7 + \frac{52}{4661}\sqrt{237}e^4 \otimes e_9$	{135679, 467}
952:69	$0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{2}{35}\sqrt{35}e^{14}, \frac{3}{35}\sqrt{14}e^{15}, \frac{1}{35}\sqrt{182}e^{16} + \frac{1}{35}\sqrt{238}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}) + \frac{2}{35}\sqrt{42}e^3 \otimes e_8 + \frac{2}{35}\sqrt{70}e^2 \otimes e_7$	{135679, 3479}
952:69	$0, 0, 0, 0, \frac{12}{1831}\sqrt{138}e^{12}, \frac{9}{1831}\sqrt{542}e^{13}, \frac{6}{1831}\sqrt{1281}e^{14}, \frac{3}{1831}\sqrt{3162}e^{15}, \frac{9}{1831}\sqrt{542}e^{16} + \frac{9}{1831}\sqrt{530}e^{23}$	$(-\frac{18}{1831}, -\frac{36}{1831}, \frac{123}{1831}, -\frac{45}{1831}, -\frac{54}{1831}, \frac{105}{1831}, -\frac{63}{1831}, -\frac{72}{1831}, \frac{87}{1831}) + \frac{24}{1831}\sqrt{66}e^4 \otimes e_8 + \frac{6}{1831}\sqrt{1533}e^2 \otimes e_7$	{3479, 467}
952:69	$0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{154}e^{13}, \frac{2}{35}\sqrt{35}e^{14}, \frac{3}{35}\sqrt{14}e^{15}, \frac{1}{5}\sqrt{2}e^{16} + \frac{1}{35}\sqrt{42}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}) + \frac{2}{35}\sqrt{42}e^3 \otimes e_8 + \frac{2}{35}\sqrt{70}e^1 \otimes e_4$	{1268, 2458}
952:69	$0, 0, 0, 0, \frac{2}{1931}\sqrt{342930}e^{12}, \frac{4}{1931}\sqrt{62445}e^{13}, \frac{10}{1931}\sqrt{23046}e^{14}, \frac{12}{1931}\sqrt{4715}e^{15}, \frac{2}{1931}\sqrt{133170}e^{16} + \frac{6}{1931}\sqrt{57730}e^{23}$	$(\frac{5}{1931}, \frac{10}{1931}, \frac{816}{1931}, -\frac{569}{1931}, \frac{15}{1931}, \frac{821}{1931}, -\frac{564}{1931}, \frac{20}{1931}, \frac{826}{1931}) + \frac{30}{1931}\sqrt{5106}e^3 \otimes e_7$	{123458, 1256789, 2368, 24789}
952:69	$0, 0, 0, 0, \frac{19}{1025}\sqrt{357}e^{12}, \frac{38}{1025}e^{13}, \frac{19}{1025}\sqrt{443}e^{14}, \frac{38}{1025}\sqrt{47}e^{15}, \frac{19}{1025}\sqrt{47}e^{16} + \frac{38}{1025}\sqrt{197}e^{23}$	$(-\frac{57}{1025}, -\frac{114}{1025}, \frac{133}{1025}, \frac{76}{205}, -\frac{171}{1025}, \frac{76}{1025}, \frac{323}{1025}, -\frac{228}{1025}, \frac{19}{1025}) + \frac{209}{1025}\sqrt{7}e^3 \otimes e_8 + \frac{38}{205}\sqrt{10}e^4 \otimes e_9$	{123456, 2347}
952:69	$0, 0, 0, 0, \frac{592}{4725}\sqrt{5}e^{12}, \frac{37}{525}\sqrt{6}e^{13}, \frac{74}{1575}\sqrt{113}e^{14}, \frac{37}{4725}\sqrt{1070}e^{15}, \frac{37}{675}\sqrt{42}e^{16} + \frac{74}{4725}\sqrt{778}e^{23}$	$(-\frac{37}{675}, -\frac{74}{675}, \frac{481}{1575}, \frac{37}{525}, -\frac{37}{225}, \frac{1184}{4725}, \frac{74}{4725}, -\frac{148}{675}, \frac{37}{189}) + \frac{37}{4725}\sqrt{3938}e^4 \otimes e_8 + \frac{74}{1575}\sqrt{131}e^3 \otimes e_7$	{178, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:69	$0, 0, 0, 0, \frac{11}{287}\sqrt{105}e^{12}, \frac{11}{287}\sqrt{213}e^{13}, \frac{11}{287}\sqrt{131}e^{14}, \frac{11}{287}\sqrt{69}e^{15},$ $\frac{11}{287}\sqrt{177}e^{16} + \frac{66}{287}\sqrt{3}e^{23}$	$(\frac{33}{574}, \frac{33}{287}, \frac{33}{287}, -\frac{209}{574}, \frac{99}{574}, \frac{99}{574}, -\frac{88}{287}, \frac{66}{287}, \frac{66}{287})$ $+ \frac{11}{287}\sqrt{403}e^1 \otimes e_4 + \frac{66}{287}\sqrt{3}e^3 \otimes e_7$	{12389, 2345689}
952:69	$0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{1}{79}\sqrt{2310}e^{13}, \frac{8}{79}\sqrt{35}e^{14}, \frac{5}{79}\sqrt{42}e^{15},$ $\frac{1}{79}\sqrt{2310}e^{16} + \frac{3}{79}\sqrt{210}e^{23}$	$(\frac{6}{79}, \frac{12}{79}, \frac{3}{79}, -\frac{29}{79}, \frac{18}{79}, \frac{9}{79}, -\frac{23}{79}, \frac{24}{79}, \frac{15}{79})$ $+ \frac{70}{79}e^1 \otimes e_4$	{12389, 1268, 2345689, 2458}
952:69	$0, 0, 0, 0, \frac{2}{1931}\sqrt{342930}e^{12}, \frac{2}{1931}\sqrt{133170}e^{13}, \frac{10}{1931}\sqrt{23046}e^{14},$ $\frac{12}{1931}\sqrt{4715}e^{15}, \frac{4}{1931}\sqrt{62445}e^{16} + \frac{6}{1931}\sqrt{57730}e^{23}$	$(\frac{5}{1931}, \frac{10}{1931}, -\frac{294}{1931}, \frac{1096}{1931}, \frac{15}{1931}, \frac{289}{1931}, \frac{1101}{1931}, \frac{20}{1931}, -\frac{284}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^4 \otimes e_9$	{1234568, 125789, 23478, 2689}
952:69	$0, 0, 0, 0, \frac{2}{81}\sqrt{145}e^{12}, \frac{1}{162}\sqrt{14790}e^{13}, \frac{1}{54}\sqrt{2030}e^{14}, \frac{1}{162}\sqrt{19430}e^{15},$ $\frac{1}{162}\sqrt{14790}e^{16} + \frac{1}{162}\sqrt{11455}e^{23}$	$(-\frac{23}{324}, -\frac{23}{162}, \frac{2}{9}, \frac{11}{18}, -\frac{23}{108}, \frac{49}{324}, \frac{175}{324}, -\frac{23}{81}, \frac{13}{162})$ $+ \frac{5}{162}\sqrt{1595}e^4 \otimes e_8$	{134569, 145, 3479, 467}
952:70	$0, 0, 0, 0, \frac{12}{239}\sqrt{133}e^{12}, \frac{6}{239}\sqrt{247}e^{13}, \frac{12}{239}\sqrt{247}e^{14}, \frac{9}{239}\sqrt{114}e^{25},$ $\frac{3}{239}\sqrt{1634}e^{16} + \frac{3}{239}\sqrt{4294}e^{23}$	$(\frac{1}{239}, \frac{2}{239}, \frac{100}{239}, -\frac{72}{239}, \frac{3}{239}, \frac{101}{239}, -\frac{71}{239}, \frac{5}{239}, \frac{102}{239})$ $+ \frac{9}{239}\sqrt{874}e^3 \otimes e_7$	{123458, 1256789, 236, 2479}
952:70	$0, 0, 0, 0, \frac{12}{239}\sqrt{133}e^{12}, \frac{3}{239}\sqrt{1634}e^{13}, \frac{12}{239}\sqrt{247}e^{14}, \frac{9}{239}\sqrt{114}e^{25},$ $\frac{6}{239}\sqrt{247}e^{16} + \frac{3}{239}\sqrt{4294}e^{23}$	$(\frac{1}{239}, \frac{2}{239}, -\frac{38}{239}, \frac{135}{239}, \frac{3}{239}, -\frac{37}{239}, \frac{136}{239}, \frac{5}{239}, -\frac{36}{239})$ $+ \frac{9}{239}\sqrt{874}e^4 \otimes e_9$	{1234568, 125789, 2347, 269}
952:70	$0, 0, 0, 0, \frac{11}{673}\sqrt{526}e^{12}, \frac{44}{673}\sqrt{7}e^{13}, \frac{11}{673}\sqrt{610}e^{14}, \frac{22}{673}\sqrt{35}e^{25},$ $\frac{11}{673}\sqrt{206}e^{16} + \frac{22}{673}\sqrt{230}e^{23}$	$(-\frac{33}{673}, -\frac{66}{673}, \frac{77}{673}, \frac{253}{673}, -\frac{99}{673}, \frac{44}{673}, \frac{220}{673}, -\frac{165}{673}, \frac{11}{673})$ $+ \frac{11}{673}\sqrt{1070}e^3 \otimes e_8 + \frac{286}{673}\sqrt{2}e^4 \otimes e_9$	{1379, 4578}
952:70	$0, 0, 0, 0, \frac{1}{20}\sqrt{21}e^{12}, \frac{1}{10}\sqrt{19}e^{13}, \frac{1}{20}\sqrt{47}e^{14}, \frac{3}{10}e^{25},$ $\frac{1}{20}\sqrt{59}e^{16} + \frac{1}{20}\sqrt{42}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{20}\sqrt{51}e^3 \otimes e_8 + \frac{1}{20}\sqrt{94}e^1 \otimes e_4$	{1268, 234569}
952:70	$0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{24}{803}\sqrt{501}e^{13}, \frac{4}{803}\sqrt{13694}e^{14},$ $\frac{2}{803}\sqrt{26553}e^{25}, \frac{24}{803}\sqrt{501}e^{16} + \frac{2}{803}\sqrt{63627}e^{23}$	$(\frac{51}{803}, \frac{102}{803}, \frac{45}{803}, -\frac{283}{803}, \frac{153}{803}, \frac{96}{803}, \frac{232}{803}, \frac{255}{803}, \frac{147}{803})$ $+ \frac{2}{803}\sqrt{118069}e^1 \otimes e_4$	{12389, 1268, 234569, 245}
952:70	$0, 0, 0, 0, \frac{6}{299}\sqrt{15}e^{12}, \frac{8}{299}\sqrt{15}e^{13}, \frac{6}{299}\sqrt{46}e^{14}, \frac{2}{299}\sqrt{222}e^{25},$ $\frac{8}{299}\sqrt{15}e^{16} + \frac{2}{299}\sqrt{231}e^{23}$	$(-\frac{3}{299}, -\frac{6}{299}, \frac{1}{13}, -\frac{9}{299}, -\frac{9}{299}, \frac{20}{299}, -\frac{12}{299}, -\frac{15}{299}, \frac{17}{299})$ $+ \frac{2}{299}\sqrt{327}e^4 \otimes e_8 + \frac{2}{299}\sqrt{510}e^2 \otimes e_7$	{1356789, 1578, 3479, 467}
952:70	$0, 0, 0, 0, \frac{6}{299}\sqrt{15}e^{12}, \frac{8}{299}\sqrt{15}e^{13}, \frac{6}{299}\sqrt{46}e^{14}, \frac{2}{299}\sqrt{222}e^{25},$ $\frac{8}{299}\sqrt{15}e^{16} + \frac{2}{299}\sqrt{231}e^{23}$	$(-\frac{3}{299}, -\frac{6}{299}, \frac{1}{13}, -\frac{9}{299}, -\frac{9}{299}, \frac{20}{299}, -\frac{12}{299}, -\frac{15}{299}, \frac{17}{299})$ $- \frac{2}{299}\sqrt{327}e^4 \otimes e_8 + \frac{2}{299}\sqrt{510}e^2 \otimes e_7$	{1356789, 1578, 3479, 467}
952:70	$0, 0, 0, 0, \frac{1}{641}\sqrt{79230}e^{12}, \frac{2}{641}\sqrt{60990}e^{13}, \frac{1}{641}\sqrt{26790}e^{14},$ $\frac{2}{641}\sqrt{5795}e^{25}, \frac{15}{641}\sqrt{190}e^{16} + \frac{4}{641}\sqrt{6555}e^{23}$	$(-\frac{47}{641}, -\frac{94}{641}, \frac{335}{641}, \frac{135}{641}, -\frac{141}{641}, \frac{288}{641}, \frac{88}{641}, -\frac{235}{641}, \frac{241}{641})$ $+ \frac{3}{641}\sqrt{67070}e^3 \otimes e_8$	{13479, 139, 458, 578}
952:70	$0, 0, 0, 0, \frac{2}{167}\sqrt{395}e^{12}, \frac{2}{167}\sqrt{790}e^{13}, \frac{16}{167}\sqrt{79}e^{14}, \frac{4}{167}\sqrt{1106}e^{25},$ $\frac{2}{167}\sqrt{790}e^{16} + \frac{2}{167}\sqrt{79}e^{23}$	$(-\frac{11}{167}, -\frac{22}{167}, \frac{39}{167}, \frac{103}{167}, -\frac{33}{167}, \frac{28}{167}, \frac{92}{167}, -\frac{55}{167}, \frac{17}{167})$ $+ \frac{2}{167}\sqrt{10981}e^4 \otimes e_8$	{1234569, 1245, 2389, 268}
952:70	$0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{10}{803}\sqrt{1837}e^{13}, \frac{2}{803}\sqrt{63293}e^{14},$ $\frac{2}{803}\sqrt{26553}e^{25}, \frac{10}{803}\sqrt{1837}e^{16} + \frac{2}{803}\sqrt{54442}e^{23}$	$(\frac{51}{803}, \frac{102}{803}, \frac{45}{803}, -\frac{283}{803}, \frac{153}{803}, \frac{96}{803}, \frac{232}{803}, \frac{255}{803}, \frac{147}{803})$ $+ \frac{2}{803}\sqrt{118069}e^2 \otimes e_7$	{1356789, 1578, 3479, 467}
952:70	$0, 0, 0, 0, \frac{138}{1301}\sqrt{14}e^{12}, \frac{46}{1301}\sqrt{309}e^{13}, \frac{46}{1301}\sqrt{185}e^{14},$ $\frac{23}{1301}\sqrt{390}e^{25}, \frac{23}{1301}\sqrt{1122}e^{16} + \frac{23}{1301}\sqrt{870}e^{23}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{345}{1301}, \frac{276}{1301})$ $+ \frac{322}{1301}\sqrt{10}e^1 \otimes e_4 + \frac{69}{1301}\sqrt{38}e^3 \otimes e_7$	{12389, 234569}
952:70	$0, 0, 0, 0, \frac{860}{6181}\sqrt{5}e^{12}, \frac{86}{6181}\sqrt{55}e^{13}, \frac{172}{6181}\sqrt{334}e^{14},$ $\frac{43}{6181}\sqrt{878}e^{25}, \frac{129}{6181}\sqrt{210}e^{16} + \frac{43}{6181}\sqrt{3398}e^{23}$	$(-\frac{43}{883}, -\frac{86}{883}, \frac{1892}{6181}, \frac{344}{6181}, -\frac{129}{883}, \frac{1591}{6181}, \frac{43}{6181}, -\frac{215}{883}, \frac{1290}{6181})$ $+ \frac{172}{6181}\sqrt{310}e^4 \otimes e_8 + \frac{43}{6181}\sqrt{6330}e^3 \otimes e_7$	{12345, 2368}
952:70	$0, 0, 0, 0, \frac{28}{2857}\sqrt{33}e^{12}, \frac{14}{2857}\sqrt{879}e^{13}, \frac{14}{2857}\sqrt{1367}e^{14},$ $\frac{14}{2857}\sqrt{129}e^{25}, \frac{14}{2857}\sqrt{497}e^{16} + \frac{28}{2857}\sqrt{331}e^{23}$	$(\frac{63}{2857}, \frac{126}{2857}, -\frac{259}{2857}, -\frac{35}{2857}, \frac{189}{2857}, -\frac{196}{2857}, \frac{28}{2857}, \frac{315}{2857}, -\frac{133}{2857})$ $+ \frac{14}{2857}\sqrt{1146}e^4 \otimes e_9 + \frac{70}{2857}\sqrt{61}e^2 \otimes e_7$	{1356789, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:70	$0, 0, 0, 0, \frac{2}{97}\sqrt{39}e^{12}, \frac{6}{97}e^{13}, \frac{3}{97}\sqrt{30}e^{14}, \frac{3}{97}\sqrt{10}e^{25},$ $\frac{6}{97}e^{16} + \frac{10}{97}\sqrt{3}e^{23}$	$(-\frac{2}{97}, -\frac{4}{97}, \frac{7}{97}, \frac{6}{97}, -\frac{6}{97}, \frac{5}{97}, \frac{4}{97}, -\frac{10}{97}, \frac{3}{97})$ $+\frac{2}{97}\sqrt{69}e^3 \otimes e_7 + \frac{2}{97}\sqrt{69}e^4 \otimes e_9$	{359, 4567}
952:70	$0, 0, 0, 0, \frac{1}{20}\sqrt{21}e^{12}, \frac{3}{20}\sqrt{2}e^{13}, \frac{1}{20}\sqrt{47}e^{14}, \frac{3}{10}e^{25},$ $\frac{1}{20}\sqrt{35}e^{16} + \frac{1}{10}\sqrt{13}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{20}\sqrt{51}e^3 \otimes e_8 + \frac{1}{20}\sqrt{94}e^2 \otimes e_7$	{1578, 3479}
952:71	$0, 0, 0, 0, \frac{30}{1783}e^{12}, \frac{5}{1783}\sqrt{3018}e^{13}, \frac{30}{1783}\sqrt{129}e^{24}, \frac{5}{1783}\sqrt{1554}e^{15},$ $\frac{5}{1783}\sqrt{3018}e^{16} + \frac{5}{1783}\sqrt{3198}e^{23}$	$(-\frac{30}{1783}, -\frac{60}{1783}, \frac{205}{1783}, -\frac{45}{1783}, -\frac{90}{1783}, \frac{175}{1783}, \frac{105}{1783}, -\frac{120}{1783}, \frac{145}{1783})$ $+\frac{10}{1783}\sqrt{1581}e^1 \otimes e_7 + \frac{10}{1783}\sqrt{831}e^4 \otimes e_8$	{123459, 12456}
952:71	$0, 0, 0, 0, \frac{1}{172}\sqrt{815}e^{12}, \frac{1}{86}\sqrt{815}e^{13}, \frac{1}{172}\sqrt{19234}e^{24}, \frac{2}{43}\sqrt{326}e^{15},$ $\frac{1}{86}\sqrt{815}e^{16} + \frac{1}{172}\sqrt{815}e^{23}$	$(-\frac{25}{344}, -\frac{25}{172}, \frac{83}{344}, \frac{113}{172}, -\frac{75}{344}, \frac{29}{172}, \frac{22}{43}, -\frac{25}{86}, \frac{33}{344})$ $+\frac{1}{172}\sqrt{46618}e^4 \otimes e_8$	{1234569, 1245, 2349, 246}
952:71	$0, 0, 0, 0, \frac{16}{2407}\sqrt{21}e^{12}, \frac{8}{2407}\sqrt{219}e^{13}, \frac{4}{2407}\sqrt{1106}e^{24}, \frac{4}{2407}\sqrt{159}e^{15},$ $\frac{4}{2407}\sqrt{1159}e^{16} + \frac{20}{2407}\sqrt{23}e^{23}$	$(\frac{18}{2407}, \frac{36}{2407}, -\frac{70}{2407}, -\frac{26}{2407}, \frac{54}{2407}, -\frac{52}{2407}, \frac{10}{2407}, \frac{72}{2407}, -\frac{34}{2407})$ $+\frac{4}{2407}\sqrt{1327}e^1 \otimes e_7 + \frac{4}{2407}\sqrt{849}e^4 \otimes e_9$	{124568, 236789}
952:71	$0, 0, 0, 0, \frac{1}{355}\sqrt{606}e^{12}, \frac{2}{355}\sqrt{8282}e^{13}, \frac{1}{355}\sqrt{33734}e^{24}, \frac{3}{355}\sqrt{202}e^{15},$ $\frac{2}{355}\sqrt{8282}e^{16} + \frac{1}{355}\sqrt{30098}e^{23}$	$(\frac{3}{71}, \frac{6}{71}, \frac{36}{355}, -\frac{116}{355}, \frac{9}{71}, \frac{51}{355}, -\frac{86}{355}, \frac{12}{71}, \frac{66}{355})$ $+\frac{4}{355}\sqrt{3838}e^1 \otimes e_7$	{123489, 12468, 2356789, 2578}
952:71	$0, 0, 0, 0, \frac{4}{1015}\sqrt{1686}e^{12}, \frac{1}{1015}\sqrt{133194}e^{13}, \frac{4}{1015}\sqrt{8430}e^{24},$ $\frac{3}{1015}\sqrt{71374}e^{15}, \frac{3}{1015}\sqrt{38778}e^{16} + \frac{1}{1015}\sqrt{696318}e^{23}$	$(-\frac{16}{203}, -\frac{32}{203}, \frac{523}{1015}, \frac{237}{1015}, -\frac{48}{203}, \frac{443}{1015}, \frac{11}{145}, -\frac{64}{203}, \frac{363}{1015})$ $+\frac{6}{1015}\sqrt{40183}e^3 \otimes e_8$	{123457, 1235, 23467, 236}
952:71	$0, 0, 0, 0, \frac{26}{1353}\sqrt{411}e^{12}, \frac{26}{1353}\sqrt{273}e^{13}, \frac{91}{1353}\sqrt{30}e^{24}, \frac{13}{451}\sqrt{70}e^{15},$ $\frac{26}{451}\sqrt{35}e^{16} + \frac{26}{451}\sqrt{55}e^{23}$	$(-\frac{26}{451}, -\frac{52}{451}, \frac{65}{451}, \frac{182}{451}, -\frac{78}{451}, \frac{39}{451}, \frac{130}{451}, -\frac{104}{451}, \frac{13}{451})$ $+\frac{26}{1353}\sqrt{843}e^3 \otimes e_8 + \frac{26}{1353}\sqrt{969}e^4 \otimes e_9$	{14678, 4578}
952:71	$0, 0, 0, 0, \frac{7}{1027}\sqrt{10470}e^{12}, \frac{7}{1027}\sqrt{5970}e^{13}, \frac{70}{1027}\sqrt{129}e^{24},$ $\frac{21}{1027}\sqrt{590}e^{15}, \frac{21}{1027}\sqrt{1630}e^{16} + \frac{14}{1027}\sqrt{645}e^{23}$	$(-\frac{5}{1027}, -\frac{10}{1027}, -\frac{128}{1027}, \frac{597}{1027}, -\frac{15}{1027}, \frac{133}{1027}, \frac{587}{1027}, -\frac{20}{1027}, -\frac{138}{1027})$ $+\frac{210}{1027}\sqrt{29}e^4 \otimes e_9$	{139, 1467, 3569, 457}
952:71	$0, 0, 0, 0, \frac{41}{5005}\sqrt{2126}e^{12}, \frac{41}{5005}\sqrt{2390}e^{13}, \frac{82}{5005}\sqrt{979}e^{24},$ $\frac{41}{5005}\sqrt{626}e^{15}, \frac{41}{5005}\sqrt{714}e^{16} + \frac{82}{5005}\sqrt{97}e^{23}$	$(-\frac{41}{715}, -\frac{82}{715}, \frac{328}{1001}, \frac{41}{385}, -\frac{123}{715}, \frac{123}{455}, -\frac{41}{5005}, -\frac{164}{715}, \frac{82}{385})$ $+\frac{164}{5005}\sqrt{247}e^4 \otimes e_8 + \frac{82}{5005}\sqrt{1257}e^3 \otimes e_7$	{1389, 35689}
952:71	$0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{1}{15}\sqrt{102}e^{13}, \frac{4}{15}\sqrt{6}e^{24}, \frac{1}{5}\sqrt{2}e^{15},$ $\frac{1}{15}\sqrt{102}e^{16} + \frac{1}{15}\sqrt{102}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{2}{15}\sqrt{15}e^2 \otimes e_4 + \frac{2}{15}\sqrt{33}e^1 \otimes e_7$	{1234589, 124568}
952:71	$0, 0, 0, 0, \frac{7}{1027}\sqrt{10470}e^{12}, \frac{21}{1027}\sqrt{1630}e^{13}, \frac{70}{1027}\sqrt{129}e^{24},$ $\frac{21}{1027}\sqrt{590}e^{15}, \frac{7}{1027}\sqrt{5970}e^{16} + \frac{14}{1027}\sqrt{645}e^{23}$	$(-\frac{5}{1027}, -\frac{10}{1027}, \frac{452}{1027}, -\frac{21}{79}, -\frac{15}{1027}, \frac{447}{1027}, -\frac{283}{152}, -\frac{20}{1027}, \frac{34}{79})$ $+\frac{210}{1027}\sqrt{29}e^3 \otimes e_7$	{139, 1467, 3569, 457}
952:71	$0, 0, 0, 0, \frac{4}{155}\sqrt{186}e^{12}, \frac{1}{155}\sqrt{2294}e^{13}, \frac{4}{155}\sqrt{155}e^{24}, \frac{1}{155}\sqrt{3534}e^{15},$ $\frac{1}{155}\sqrt{3658}e^{16} + \frac{9}{155}\sqrt{62}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{2}{155}\sqrt{1023}e^3 \otimes e_8 + \frac{4}{155}\sqrt{310}e^2 \otimes e_4$	{134569, 349}
952:71	$0, 0, 0, 0, \frac{3}{152}\sqrt{1957}e^{12}, \frac{1}{152}\sqrt{14214}e^{13}, \frac{1}{76}\sqrt{2678}e^{24}, \frac{1}{152}\sqrt{10506}e^{15},$ $\frac{1}{152}\sqrt{14214}e^{16} + \frac{3}{152}\sqrt{1957}e^{23}$	$(\frac{33}{304}, \frac{33}{152}, -\frac{3}{304}, -\frac{35}{76}, \frac{99}{304}, \frac{15}{152}, -\frac{37}{152}, \frac{33}{76}, \frac{63}{304})$ $+\frac{1}{152}\sqrt{28222}e^2 \otimes e_4$	{134569, 145, 349, 46}
952:71	$0, 0, 0, 0, \frac{2}{157}\sqrt{295}e^{12}, \frac{6}{157}\sqrt{30}e^{13}, \frac{15}{157}\sqrt{6}e^{24}, \frac{8}{157}\sqrt{10}e^{15},$ $\frac{6}{157}\sqrt{30}e^{16} + \frac{3}{157}\sqrt{30}e^{23}$	$(-\frac{5}{157}, -\frac{10}{157}, \frac{17}{157}, \frac{17}{157}, -\frac{15}{157}, \frac{12}{157}, \frac{7}{157}, -\frac{20}{157}, \frac{7}{157})$ $+\frac{5}{157}\sqrt{58}e^3 \otimes e_7 - \frac{5}{157}\sqrt{58}e^4 \otimes e_9$	{139, 1467, 3569, 457}
952:71	$0, 0, 0, 0, \frac{2}{157}\sqrt{295}e^{12}, \frac{6}{157}\sqrt{30}e^{13}, \frac{15}{157}\sqrt{6}e^{24}, \frac{8}{157}\sqrt{10}e^{15},$ $\frac{6}{157}\sqrt{30}e^{16} + \frac{3}{157}\sqrt{30}e^{23}$	$(-\frac{5}{157}, -\frac{10}{157}, \frac{17}{157}, \frac{17}{157}, -\frac{15}{157}, \frac{12}{157}, \frac{7}{157}, -\frac{20}{157}, \frac{7}{157})$ $+\frac{5}{157}\sqrt{58}e^3 \otimes e_7 + \frac{5}{157}\sqrt{58}e^4 \otimes e_9$	{139, 1467, 3569, 457}
952:71	$0, 0, 0, 0, \frac{93}{1949}\sqrt{58}e^{12}, \frac{31}{1949}\sqrt{66}e^{13}, \frac{62}{1949}\sqrt{13}e^{24}, \frac{31}{1949}\sqrt{354}e^{15},$ $\frac{31}{1949}\sqrt{606}e^{16} + \frac{186}{1949}\sqrt{37}e^{23}$	$(\frac{93}{1949}, \frac{186}{1949}, \frac{372}{1949}, -\frac{775}{1949}, \frac{279}{1949}, \frac{465}{1949}, -\frac{589}{1949}, \frac{372}{1949}, \frac{558}{1949})$ $+\frac{124}{1949}\sqrt{118}e^2 \otimes e_4 + \frac{558}{1949}\sqrt{5}e^3 \otimes e_7$	{1457, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:72	$0, 0, 0, 0, \frac{5}{197}\sqrt{266}e^{12}, \frac{20}{197}\sqrt{13}e^{13}, \frac{10}{197}\sqrt{58}e^{24}, \frac{5}{197}\sqrt{42}e^{25},$ $\frac{5}{197}\sqrt{246}e^{16} + \frac{20}{197}\sqrt{15}e^{23}$	$(-\frac{10}{197}, -\frac{20}{197}, \frac{25}{197}, \frac{80}{197}, -\frac{30}{197}, \frac{15}{197}, \frac{60}{197}, -\frac{50}{197}, \frac{5}{197})$ $+\frac{10}{197}\sqrt{146}e^4 \otimes e_9 + \frac{5}{197}\sqrt{470}e^3 \otimes e_8$	{139, 4578}
952:72	$0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{4}{15}\sqrt{6}e^{13}, \frac{1}{15}\sqrt{102}e^{24}, \frac{1}{5}\sqrt{2}e^{25},$ $\frac{4}{15}\sqrt{6}e^{16} + \frac{4}{15}\sqrt{6}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{15}\sqrt{138}e^1 \otimes e_7 + \frac{1}{15}\sqrt{66}e^2 \otimes e_4$	{1234589, 124568}
952:72	$0, 0, 0, 0, \frac{1}{145}\sqrt{174}e^{12}, \frac{3}{145}\sqrt{406}e^{13}, \frac{1}{145}\sqrt{2726}e^{24}, \frac{1}{145}\sqrt{870}e^{25},$ $\frac{2}{145}\sqrt{754}e^{16} + \frac{1}{145}\sqrt{2378}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{145}\sqrt{1914}e^3 \otimes e_8 + \frac{2}{145}\sqrt{1363}e^1 \otimes e_7$	{123459, 278}
952:72	$0, 0, 0, 0, \frac{60}{2519}\sqrt{782}e^{12}, \frac{60}{2519}\sqrt{937}e^{13}, \frac{60}{2519}\sqrt{1069}e^{24},$ $\frac{360}{2519}\sqrt{11}e^{25}, \frac{60}{2519}\sqrt{221}e^{16} + \frac{420}{2519}\sqrt{10}e^{23}$	$(-\frac{5}{2519}, -\frac{10}{2519}, \frac{1092}{2519}, -\frac{698}{2519}, -\frac{15}{2519}, \frac{1087}{2519}, -\frac{708}{2519}, -\frac{25}{2519}, \frac{1082}{2519})$ $+\frac{120}{2519}\sqrt{537}e^3 \otimes e_7$	{1389, 14678, 3569, 457}
952:72	$0, 0, 0, 0, \frac{4}{773}\sqrt{23010}e^{12}, \frac{12}{773}\sqrt{1239}e^{13}, \frac{4}{773}\sqrt{16343}e^{24},$ $\frac{8}{773}\sqrt{3894}e^{25}, \frac{12}{773}\sqrt{1239}e^{16} + \frac{4}{773}\sqrt{15222}e^{23}$	$(\frac{69}{773}, \frac{138}{773}, \frac{12}{773}, -\frac{334}{773}, \frac{207}{773}, \frac{81}{773}, -\frac{196}{773}, \frac{345}{773}, \frac{150}{773})$ $+\frac{8}{773}\sqrt{10207}e^2 \otimes e_4$	{1345689, 1458, 349, 46}
952:72	$0, 0, 0, 0, \frac{47}{6489}\sqrt{3002}e^{12}, \frac{188}{6489}\sqrt{226}e^{13}, \frac{94}{6489}\sqrt{1290}e^{24},$ $\frac{47}{6489}\sqrt{314}e^{25}, \frac{47}{2163}\sqrt{154}e^{16} + \frac{47}{6489}\sqrt{186}e^{23}$	$(-\frac{47}{927}, -\frac{94}{927}, \frac{235}{721}, \frac{188}{2163}, -\frac{47}{309}, \frac{1786}{6489}, -\frac{94}{6489}, \frac{235}{927}, \frac{1457}{6489})$ $+\frac{47}{6489}\sqrt{4946}e^4 \otimes e_8 + \frac{47}{6489}\sqrt{6690}e^3 \otimes e_7$	{1467, 35689}
952:72	$0, 0, 0, 0, \frac{3}{1297}\sqrt{29210}e^{12}, \frac{6}{1297}\sqrt{25019}e^{13}, \frac{6}{1297}\sqrt{5969}e^{24},$ $\frac{9}{1297}\sqrt{10922}e^{25}, \frac{3}{1297}\sqrt{8890}e^{16} + \frac{6}{1297}\sqrt{14605}e^{23}$	$(-\frac{94}{1297}, -\frac{188}{1297}, \frac{673}{1297}, \frac{314}{1297}, -\frac{282}{1297}, \frac{579}{1297}, \frac{126}{1297}, -\frac{470}{1297}, \frac{485}{1297})$ $+\frac{3}{1297}\sqrt{273558}e^3 \otimes e_8$	{1349, 1379, 458, 578}
952:72	$0, 0, 0, 0, \frac{3}{583}\sqrt{105}e^{12}, \frac{9}{583}\sqrt{145}e^{13}, \frac{3}{583}\sqrt{1515}e^{24}, \frac{3}{583}\sqrt{417}e^{25},$ $\frac{9}{583}\sqrt{145}e^{16} + \frac{3}{583}\sqrt{151}e^{23}$	$(-\frac{9}{583}, -\frac{18}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{27}{583}, \frac{60}{583}, -\frac{36}{583}, -\frac{45}{583}, \frac{51}{583})$ $-\frac{3}{583}\sqrt{1047}e^4 \otimes e_8 + \frac{3}{583}\sqrt{2091}e^1 \otimes e_7$	{123459, 12456, 236789, 278}
952:72	$0, 0, 0, 0, \frac{3}{583}\sqrt{105}e^{12}, \frac{9}{583}\sqrt{145}e^{13}, \frac{3}{583}\sqrt{1515}e^{24}, \frac{3}{583}\sqrt{417}e^{25},$ $\frac{9}{583}\sqrt{145}e^{16} + \frac{9}{583}\sqrt{151}e^{23}$	$(-\frac{9}{583}, -\frac{18}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{27}{583}, \frac{60}{583}, -\frac{36}{583}, -\frac{45}{583}, \frac{51}{583})$ $+\frac{3}{583}\sqrt{1047}e^4 \otimes e_8 + \frac{3}{583}\sqrt{2091}e^1 \otimes e_7$	{123459, 12456, 236789, 278}
952:72	$0, 0, 0, 0, \frac{76}{879}\sqrt{23}e^{12}, \frac{4}{879}\sqrt{16169}e^{13}, \frac{20}{879}\sqrt{1311}e^{24},$ $\frac{2}{879}\sqrt{114494}e^{25}, \frac{4}{879}\sqrt{16169}e^{16} + \frac{46}{293}\sqrt{19}e^{23}$	$(-\frac{59}{879}, -\frac{118}{879}, \frac{220}{879}, \frac{193}{293}, -\frac{59}{293}, \frac{161}{879}, \frac{461}{879}, -\frac{295}{879}, \frac{34}{293})$ $+\frac{2}{879}\sqrt{313766}e^4 \otimes e_8$	{123459, 12456, 236789, 278}
952:72	$0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{14}e^{13}, \frac{1}{175}\sqrt{3290}e^{24}, \frac{1}{175}\sqrt{3990}e^{25},$ $\frac{2}{25}\sqrt{10}e^{16} + \frac{1}{175}\sqrt{3570}e^{23}$	$(0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{175}\sqrt{4830}e^3 \otimes e_8 + \frac{2}{175}\sqrt{1645}e^2 \otimes e_4$	{1458, 349}
952:72	$0, 0, 0, 0, \frac{1}{96}\sqrt{330}e^{12}, \frac{1}{96}\sqrt{210}e^{13}, \frac{13}{192}\sqrt{10}e^{24}, \frac{1}{96}\sqrt{190}e^{25},$ $\frac{1}{96}\sqrt{210}e^{16} + \frac{5}{192}\sqrt{34}e^{23}$	$(-\frac{5}{192}, -\frac{5}{96}, \frac{3}{32}, \frac{3}{32}, -\frac{5}{64}, \frac{13}{192}, \frac{1}{24}, -\frac{25}{192}, \frac{1}{24})$ $+\frac{1}{192}\sqrt{1790}e^3 \otimes e_7 + \frac{1}{192}\sqrt{1790}e^4 \otimes e_9$	{1389, 14678, 3569, 457}
952:72	$0, 0, 0, 0, \frac{1}{96}\sqrt{330}e^{12}, \frac{1}{96}\sqrt{210}e^{13}, \frac{13}{192}\sqrt{10}e^{24}, \frac{1}{96}\sqrt{190}e^{25},$ $\frac{1}{96}\sqrt{210}e^{16} + \frac{5}{192}\sqrt{34}e^{23}$	$(-\frac{5}{192}, -\frac{5}{96}, \frac{3}{32}, \frac{3}{32}, -\frac{5}{64}, \frac{13}{192}, \frac{1}{24}, -\frac{25}{192}, \frac{1}{24})$ $+\frac{1}{192}\sqrt{1790}e^3 \otimes e_7 - \frac{1}{192}\sqrt{1790}e^4 \otimes e_9$	{1389, 14678, 3569, 457}
952:72	$0, 0, 0, 0, \frac{10}{1177}\sqrt{15}e^{12}, \frac{1}{1177}\sqrt{3810}e^{13}, \frac{2}{1177}\sqrt{1355}e^{24}, \frac{2}{1177}\sqrt{165}e^{25},$ $\frac{20}{1177}\sqrt{13}e^{16} + \frac{1}{1177}\sqrt{2330}e^{23}$	$(\frac{9}{1177}, \frac{18}{1177}, -\frac{37}{1177}, -\frac{14}{1177}, \frac{27}{1177}, -\frac{28}{1177}, \frac{4}{1177}, \frac{45}{1177}, -\frac{19}{1177})$ $+\frac{1}{1177}\sqrt{4170}e^4 \otimes e_9 + \frac{1}{1177}\sqrt{6490}e^1 \otimes e_7$	{124568, 23679}
952:72	$0, 0, 0, 0, \frac{10}{887}\sqrt{30}e^{12}, \frac{20}{887}\sqrt{530}e^{13}, \frac{20}{887}\sqrt{515}e^{24}, \frac{60}{887}\sqrt{5}e^{25},$ $\frac{20}{887}\sqrt{530}e^{16} + \frac{10}{887}\sqrt{1955}e^{23}$	$(\frac{33}{887}, \frac{66}{887}, \frac{96}{887}, -\frac{283}{887}, \frac{99}{887}, \frac{129}{887}, -\frac{217}{887}, \frac{165}{887}, \frac{162}{887})$ $+\frac{10}{887}\sqrt{3790}e^1 \otimes e_7$	{123489, 12468, 235679, 257}
952:72	$0, 0, 0, 0, \frac{60}{2519}\sqrt{782}e^{12}, \frac{60}{2519}\sqrt{221}e^{13}, \frac{60}{2519}\sqrt{1069}e^{24},$ $\frac{360}{2519}\sqrt{11}e^{25}, \frac{60}{2519}\sqrt{937}e^{16} + \frac{420}{2519}\sqrt{10}e^{23}$	$(-\frac{5}{2519}, -\frac{10}{2519}, -\frac{340}{2519}, \frac{1450}{2519}, -\frac{15}{2519}, -\frac{345}{2519}, \frac{1440}{2519}, -\frac{25}{2519}, -\frac{350}{2519})$ $+\frac{120}{2519}\sqrt{537}e^4 \otimes e_9$	{1389, 14678, 3569, 457}
952:72	$0, 0, 0, 0, \frac{16}{265}\sqrt{42}e^{12}, \frac{16}{265}\sqrt{3}e^{13}, \frac{32}{265}\sqrt{2}e^{24}, \frac{16}{265}\sqrt{33}e^{25},$ $\frac{16}{265}\sqrt{30}e^{16} + \frac{16}{53}\sqrt{3}e^{23}$	$(\frac{12}{265}, \frac{24}{265}, \frac{48}{265}, -\frac{104}{265}, \frac{36}{265}, \frac{12}{53}, -\frac{16}{53}, \frac{12}{53}, \frac{72}{265})$ $+\frac{16}{265}\sqrt{139}e^2 \otimes e_4 + \frac{48}{265}\sqrt{11}e^3 \otimes e_7$	{1238, 2356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:73	$0, 0, 0, 0, \frac{8}{2383}\sqrt{10034}e^{12}, \frac{8}{2383}\sqrt{20706}e^{13}, \frac{8}{2383}\sqrt{27057}e^{24},$ $\frac{24}{2383}\sqrt{2117}e^{15} + \frac{8}{2383}\sqrt{22098}e^{23}, \frac{16}{2383}\sqrt{3335}e^{16}$	$(\frac{206}{2383}, -\frac{153}{2383}, \frac{412}{2383}, -\frac{569}{2383}, \frac{53}{2383}, \frac{618}{2383}, -\frac{722}{2383}, \frac{259}{2383}, \frac{824}{2383})$ $+\frac{8}{2383}\sqrt{58551}e^1 \otimes e_7$	{123489, 1359, 2356789, 34679}
952:73	$0, 0, 0, 0, \frac{46}{5269}\sqrt{269}e^{12}, \frac{92}{5269}\sqrt{114}e^{13}, \frac{92}{5269}\sqrt{213}e^{24},$ $\frac{23}{5269}\sqrt{942}e^{15} + \frac{23}{5269}\sqrt{762}e^{23}, \frac{46}{5269}\sqrt{710}e^{16}$	$(\frac{23}{5269}, \frac{621}{5269}, \frac{46}{5269}, -\frac{1127}{5269}, \frac{644}{5269}, \frac{69}{5269}, -\frac{46}{479}, \frac{667}{5269}, \frac{92}{5269})$ $+\frac{23}{5269}\sqrt{3810}e^2 \otimes e_9 + \frac{23}{5269}\sqrt{5574}e^1 \otimes e_7$	{1359, 34679}
952:73	$0, 0, 0, 0, \frac{2}{114}\sqrt{415}e^{12}, \frac{1}{114}\sqrt{4399}e^{13}, \frac{1}{114}\sqrt{8466}e^{24},$ $\frac{1}{114}\sqrt{3818}e^{15} + \frac{1}{114}\sqrt{166}e^{23}, \frac{1}{114}\sqrt{9794}e^{16}$	$(-\frac{5}{114}, \frac{11}{228}, -\frac{5}{57}, \frac{21}{38}, \frac{1}{228}, -\frac{5}{38}, \frac{137}{228}, -\frac{3}{76}, -\frac{10}{57})$ $+\frac{1}{114}\sqrt{16019}e^4 \otimes e_9$	{124568, 1467, 248, 457}
952:73	$0, 0, 0, 0, \frac{9}{6013}\sqrt{870}e^{12}, \frac{54}{6013}\sqrt{91}e^{13}, \frac{90}{6013}\sqrt{51}e^{24},$ $\frac{9}{6013}\sqrt{830}e^{15} + \frac{18}{6013}\sqrt{601}e^{23}, \frac{9}{6013}\sqrt{4022}e^{16}$	$(\frac{9}{859}, -\frac{351}{6013}, \frac{18}{859}, \frac{333}{6013}, -\frac{288}{6013}, \frac{27}{859}, -\frac{18}{6013}, -\frac{225}{6013}, \frac{36}{859})$ $+\frac{18}{6013}\sqrt{1565}e^1 \otimes e_7 + \frac{9}{6013}\sqrt{4642}e^4 \otimes e_9$	{12456, 4578}
952:73	$0, 0, 0, 0, \frac{190}{821}\sqrt{3}e^{12}, \frac{19}{821}\sqrt{438}e^{13}, \frac{19}{821}\sqrt{322}e^{24},$ $\frac{38}{821}\sqrt{87}e^{15} + \frac{19}{821}\sqrt{510}e^{23}, \frac{38}{821}\sqrt{69}e^{16}$	$(\frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{171}{821}, -\frac{247}{821}, \frac{171}{821}, \frac{228}{821})$ $+\frac{19}{821}\sqrt{466}e^2 \otimes e_4 - \frac{38}{821}\sqrt{249}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:73	$0, 0, 0, 0, \frac{190}{821}\sqrt{3}e^{12}, \frac{19}{821}\sqrt{438}e^{13}, \frac{19}{821}\sqrt{322}e^{24},$ $\frac{38}{821}\sqrt{87}e^{15} + \frac{19}{821}\sqrt{510}e^{23}, \frac{38}{821}\sqrt{69}e^{16}$	$(\frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{171}{821}, \frac{247}{821}, \frac{171}{821}, \frac{228}{821})$ $+\frac{19}{821}\sqrt{466}e^2 \otimes e_4 + \frac{38}{821}\sqrt{249}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:73	$0, 0, 0, 0, \frac{2}{783}\sqrt{6555}e^{12}, \frac{2}{783}\sqrt{285}e^{13}, \frac{2}{783}\sqrt{49305}e^{24},$ $\frac{2}{783}\sqrt{39045}e^{15} + \frac{2}{783}\sqrt{68685}e^{23}, \frac{2}{783}\sqrt{85215}e^{16}$	$(-\frac{56}{783}, \frac{346}{783}, -\frac{112}{783}, -\frac{43}{783}, \frac{10}{27}, -\frac{56}{261}, \frac{101}{261}, \frac{26}{87}, -\frac{224}{783})$ $+\frac{2}{783}\sqrt{186105}e^2 \otimes e_9$	{1345789, 13589, 346789, 3689}
952:73	$0, 0, 0, 0, \frac{65}{6517}\sqrt{226}e^{12}, \frac{39}{6517}\sqrt{546}e^{13}, \frac{234}{6517}\sqrt{17}e^{24},$ $\frac{13}{6517}\sqrt{3814}e^{15} + \frac{156}{6517}\sqrt{15}e^{23}, \frac{117}{6517}\sqrt{66}e^{16}$	$(\frac{13}{931}, -\frac{520}{6517}, \frac{26}{931}, \frac{533}{6517}, -\frac{429}{6517}, \frac{39}{931}, \frac{13}{6517}, -\frac{338}{6517}, \frac{52}{931})$ $+\frac{26}{6517}\sqrt{1399}e^4 \otimes e_9 + \frac{26}{6517}\sqrt{1615}e^3 \otimes e_7$	{1467, 457}
952:73	$0, 0, 0, 0, \frac{14}{667}\sqrt{46}e^{12}, \frac{140}{667}e^{13}, \frac{7}{667}\sqrt{958}e^{24},$ $\frac{14}{667}\sqrt{199}e^{15} + \frac{7}{667}\sqrt{390}e^{23}, \frac{21}{667}\sqrt{30}e^{16}$	$(\frac{35}{667}, -\frac{231}{1334}, \frac{70}{667}, \frac{105}{1334}, -\frac{7}{58}, \frac{105}{667}, \frac{63}{667}, -\frac{91}{1334}, \frac{140}{667})$ $+\frac{70}{667}\sqrt{15}e^1 \otimes e_7 + \frac{7}{667}\sqrt{878}e^4 \otimes e_8$	{2356789, 34679}
952:73	$0, 0, 0, 0, \frac{41}{6085}\sqrt{218}e^{12}, \frac{41}{6085}\sqrt{746}e^{13}, \frac{41}{6085}\sqrt{3074}e^{24},$ $\frac{41}{6085}\sqrt{562}e^{15} + \frac{41}{6085}\sqrt{3166}e^{23}, \frac{82}{6085}\sqrt{562}e^{16}$	$(-\frac{287}{6085}, \frac{533}{6085}, -\frac{574}{6085}, \frac{328}{1217}, \frac{246}{6085}, -\frac{861}{6085}, \frac{2173}{6085}, -\frac{41}{6085}, -\frac{1148}{6085})$ $+\frac{451}{6085}\sqrt{42}e^4 \otimes e_8 + \frac{82}{6085}\sqrt{1454}e^2 \otimes e_9$	{123456, 234}
952:73	$0, 0, 0, 0, \frac{1}{287}\sqrt{9614}e^{12}, \frac{5}{287}\sqrt{506}e^{13}, \frac{13}{287}\sqrt{253}e^{24},$ $\frac{1}{287}\sqrt{45034}e^{15} + \frac{1}{287}\sqrt{26565}e^{23}, \frac{1}{287}\sqrt{3795}e^{16}$	$(\frac{10}{287}, -\frac{141}{574}, \frac{20}{287}, \frac{405}{574}, -\frac{121}{574}, \frac{30}{287}, \frac{132}{287}, -\frac{101}{574}, \frac{40}{287})$ $+\frac{1}{287}\sqrt{121187}e^4 \otimes e_8$	{1234569, 13689, 2349, 3589}
952:73	$0, 0, 0, 0, \frac{5}{1193}\sqrt{2870}e^{12}, \frac{5}{1193}\sqrt{3130}e^{13}, \frac{20}{1193}\sqrt{230}e^{24},$ $\frac{5}{1193}\sqrt{3290}e^{15} + \frac{20}{1193}\sqrt{235}e^{23}, \frac{10}{1193}\sqrt{1015}e^{16}$	$(\frac{5}{1193}, \frac{145}{1193}, \frac{10}{1193}, -\frac{260}{1193}, \frac{150}{1193}, \frac{15}{1193}, -\frac{115}{1193}, \frac{155}{1193}, \frac{20}{1193})$ $+\frac{10}{1193}\sqrt{1235}e^2 \otimes e_9 + \frac{5}{1193}\sqrt{5910}e^3 \otimes e_7$	{125678, 278}
952:73	$0, 0, 0, 0, \frac{17}{1381}\sqrt{834}e^{12}, \frac{17}{1381}\sqrt{670}e^{13}, \frac{17}{1381}\sqrt{962}e^{24},$ $\frac{17}{1381}\sqrt{166}e^{15} + \frac{17}{1381}\sqrt{710}e^{23}, \frac{34}{1381}\sqrt{105}e^{16}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $-\frac{17}{1381}\sqrt{1042}e^4 \otimes e_8 + \frac{34}{1381}\sqrt{365}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:73	$0, 0, 0, 0, \frac{17}{1381}\sqrt{834}e^{12}, \frac{17}{1381}\sqrt{670}e^{13}, \frac{17}{1381}\sqrt{962}e^{24},$ $\frac{17}{1381}\sqrt{166}e^{15} + \frac{17}{1381}\sqrt{710}e^{23}, \frac{34}{1381}\sqrt{105}e^{16}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+\frac{17}{1381}\sqrt{1042}e^4 \otimes e_8 + \frac{34}{1381}\sqrt{365}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:73	$0, 0, 0, 0, \frac{3}{566}\sqrt{17430}e^{12}, \frac{15}{566}\sqrt{770}e^{13}, \frac{18}{566}\sqrt{105}e^{24},$ $\frac{3}{566}\sqrt{12390}e^{15} + \frac{3}{566}\sqrt{11690}e^{23}, \frac{3}{566}\sqrt{11795}e^{16}$	$(\frac{31}{283}, -\frac{109}{1132}, \frac{62}{283}, -\frac{273}{1132}, \frac{15}{283}, \frac{93}{283}, -\frac{191}{566}, \frac{139}{1132}, \frac{124}{283})$ $+\frac{21}{566}\sqrt{695}e^3 \otimes e_7$	{125678, 1467, 278, 457}
952:73	$0, 0, 0, 0, \frac{3}{133}\sqrt{1541}e^{12}, \frac{6}{133}\sqrt{201}e^{13}, \frac{1}{133}\sqrt{6767}e^{24},$ $\frac{1}{133}\sqrt{1407}e^{15} + \frac{3}{133}\sqrt{1273}e^{23}, \frac{1}{133}\sqrt{3417}e^{16}$	$(\frac{3}{266}, \frac{255}{532}, \frac{3}{133}, -\frac{281}{532}, \frac{261}{532}, \frac{9}{266}, -\frac{13}{266}, \frac{267}{532}, \frac{6}{133})$ $+\frac{1}{133}\sqrt{30619}e^2 \otimes e_4$	{128, 145, 2568, 46}
952:73	$0, 0, 0, 0, \frac{24}{91}\sqrt{2}e^{12}, \frac{24}{91}\sqrt{2}e^{13}, \frac{40}{91}e^{24},$ $\frac{8}{91}\sqrt{21}e^{15} + \frac{24}{91}\sqrt{2}e^{23}, \frac{16}{91}\sqrt{3}e^{16}$	$(\frac{6}{91}, \frac{3}{91}, \frac{12}{91}, -\frac{29}{91}, \frac{9}{91}, \frac{18}{91}, -\frac{2}{7}, \frac{15}{91}, \frac{24}{91})$ $+\frac{24}{91}\sqrt{7}e^1 \otimes e_7 + \frac{32}{91}e^2 \otimes e_4$	{2356789, 34679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:74	$0, 0, 0, 0, \frac{12}{151}\sqrt{30}e^{12}, \frac{12}{151}\sqrt{30}e^{13}, \frac{36}{151}\sqrt{5}e^{24},$ $\frac{36}{151}\sqrt{5}e^{15} + \frac{18}{151}\sqrt{23}e^{23}, \frac{6}{151}\sqrt{93}e^{36}$	$(\frac{11}{151}, -\frac{7}{151}, \frac{22}{151}, -\frac{36}{151}, \frac{4}{151}, \frac{33}{151}, -\frac{43}{151}, \frac{15}{151}, \frac{55}{151})$ $+ \frac{6}{151}\sqrt{381}e^1 \otimes e_7$	{123489, 1359, 235678, 3467}
952:74	$0, 0, 0, 0, \frac{34}{866}\sqrt{30}e^{12}, \frac{17}{866}\sqrt{330}e^{13}, \frac{17}{433}\sqrt{130}e^{24},$ $\frac{17}{866}\sqrt{570}e^{15} + \frac{51}{866}\sqrt{62}e^{23}, \frac{17}{866}\sqrt{267}e^{36}$	$(\frac{51}{866}, \frac{51}{1732}, \frac{51}{433}, -\frac{527}{1732}, \frac{153}{1732}, \frac{153}{866}, -\frac{119}{433}, \frac{255}{1732}, \frac{255}{866})$ $+ \frac{17}{866}\sqrt{1239}e^1 \otimes e_7 + \frac{85}{866}\sqrt{10}e^2 \otimes e_4$	{235678, 3467}
952:74	$0, 0, 0, 0, \frac{80}{481}\sqrt{3}e^{12}, \frac{60}{481}\sqrt{14}e^{13}, \frac{20}{433}\sqrt{109}e^{24},$ $\frac{20}{481}\sqrt{51}e^{15} + \frac{40}{481}\sqrt{21}e^{23}, \frac{20}{481}\sqrt{93}e^{36}$	$(\frac{30}{481}, \frac{30}{481}, \frac{60}{481}, -\frac{170}{481}, \frac{60}{481}, \frac{90}{481}, -\frac{140}{481}, \frac{90}{481}, \frac{150}{481})$ $+ \frac{20}{481}\sqrt{118}e^2 \otimes e_4 + \frac{60}{481}\sqrt{34}e^3 \otimes e_7$	{1256789, 14679, 278, 457}
952:74	$0, 0, 0, 0, \frac{80}{481}\sqrt{3}e^{12}, \frac{60}{481}\sqrt{14}e^{13}, \frac{20}{433}\sqrt{109}e^{24},$ $\frac{20}{481}\sqrt{51}e^{15} + \frac{40}{481}\sqrt{21}e^{23}, \frac{20}{481}\sqrt{93}e^{36}$	$(\frac{30}{481}, \frac{30}{481}, \frac{60}{481}, -\frac{170}{481}, \frac{60}{481}, \frac{90}{481}, -\frac{140}{481}, \frac{90}{481}, \frac{150}{481})$ $+ \frac{20}{481}\sqrt{118}e^2 \otimes e_4 - \frac{60}{481}\sqrt{34}e^3 \otimes e_7$	{1256789, 14679, 278, 457}
952:74	$0, 0, 0, 0, \frac{104}{3437}\sqrt{57}e^{12}, \frac{208}{3437}\sqrt{7}e^{13}, \frac{104}{3437}\sqrt{71}e^{24},$ $\frac{52}{3437}\sqrt{226}e^{15} + \frac{26}{3437}\sqrt{883}e^{23}, \frac{26}{3437}\sqrt{817}e^{36}$	$(\frac{13}{3437}, \frac{403}{3437}, \frac{26}{3437}, -\frac{104}{491}, \frac{416}{3437}, \frac{39}{3437}, -\frac{325}{3437}, \frac{429}{3437}, \frac{65}{3437})$ $+ \frac{26}{3437}\sqrt{1869}e^1 \otimes e_7 + \frac{52}{3437}\sqrt{290}e^2 \otimes e_9$	{1359, 235678}
952:74	$0, 0, 0, 0, \frac{40}{3983}\sqrt{22}e^{12}, \frac{16}{3983}\sqrt{210}e^{13}, \frac{8}{3983}\sqrt{1695}e^{24},$ $\frac{8}{3983}\sqrt{1115}e^{15} + \frac{16}{3983}\sqrt{413}e^{23}, \frac{8}{3983}\sqrt{1173}e^{36}$	$(\frac{4}{569}, -\frac{176}{3983}, \frac{8}{569}, \frac{172}{3983}, -\frac{148}{3983}, \frac{12}{569}, -\frac{4}{3983}, -\frac{120}{3983}, \frac{20}{569})$ $+ \frac{368}{3983}e^1 \otimes e_7 + \frac{40}{3983}\sqrt{58}e^4 \otimes e_9$	{1359, 3467}
952:74	$0, 0, 0, 0, \frac{3}{22}\sqrt{2}e^{12}, \frac{3}{22}\sqrt{2}e^{13}, \frac{2}{11}\sqrt{3}e^{24},$ $\frac{2}{11}\sqrt{3}e^{15} + \frac{1}{22}\sqrt{30}e^{23}, \frac{1}{22}\sqrt{15}e^{36}$	$(\frac{1}{22}, -\frac{7}{44}, \frac{1}{11}, \frac{3}{44}, -\frac{5}{44}, \frac{3}{22}, -\frac{1}{11}, -\frac{3}{44}, \frac{5}{22})$ $+ \frac{1}{22}\sqrt{42}e^4 \otimes e_8 + \frac{5}{22}\sqrt{3}e^1 \otimes e_7$	{235678, 3467}
952:74	$0, 0, 0, 0, \frac{4}{2623}\sqrt{287970}e^{12}, \frac{36}{2623}\sqrt{1986}e^{13}, \frac{4}{2623}\sqrt{166493}e^{24},$ $\frac{4}{2623}\sqrt{16881}e^{15} + \frac{4}{2623}\sqrt{331662}e^{23}, \frac{4}{2623}\sqrt{70503}e^{36}$	$(\frac{30}{2623}, \frac{1254}{2623}, \frac{60}{2623}, -\frac{1394}{2623}, \frac{1284}{2623}, \frac{90}{2623}, -\frac{140}{2623}, \frac{1314}{2623}, \frac{150}{2623})$ $+ \frac{8}{2623}\sqrt{187015}e^2 \otimes e_4$	{12369, 1345689, 235, 348}
952:74	$0, 0, 0, 0, \frac{12}{4277}\sqrt{786}e^{12}, \frac{12}{4277}\sqrt{1302}e^{13}, \frac{132}{4277}\sqrt{15}e^{24},$ $\frac{12}{4277}\sqrt{181}e^{15} + \frac{12}{4277}\sqrt{382}e^{23}, \frac{12}{4277}\sqrt{1553}e^{36}$	$(\frac{6}{611}, -\frac{270}{4277}, \frac{12}{611}, \frac{6}{91}, -\frac{228}{4277}, \frac{18}{611}, \frac{12}{4277}, -\frac{186}{4277}, \frac{30}{611})$ $+ \frac{24}{4277}\sqrt{430}e^4 \otimes e_9 + \frac{24}{4277}\sqrt{545}e^3 \otimes e_7$	{139, 23468}
952:74	$0, 0, 0, 0, \frac{9}{106}\sqrt{11}e^{12}, \frac{9}{424}\sqrt{190}e^{13}, \frac{9}{848}\sqrt{1202}e^{24},$ $\frac{9}{424}\sqrt{26}e^{15} + \frac{63}{848}\sqrt{10}e^{23}, \frac{9}{212}\sqrt{35}e^{36}$	$(\frac{45}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{45}{424}, -\frac{117}{848}, \frac{135}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{225}{848})$ $- \frac{9}{848}\sqrt{1222}e^4 \otimes e_8 + \frac{9}{848}\sqrt{1830}e^3 \otimes e_7$	{123459, 1389, 2346, 3568}
952:74	$0, 0, 0, 0, \frac{9}{106}\sqrt{11}e^{12}, \frac{9}{424}\sqrt{190}e^{13}, \frac{9}{848}\sqrt{1202}e^{24},$ $\frac{9}{424}\sqrt{26}e^{15} + \frac{63}{848}\sqrt{10}e^{23}, \frac{9}{212}\sqrt{35}e^{36}$	$(\frac{45}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{45}{424}, -\frac{117}{848}, \frac{135}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{225}{848})$ $+ \frac{9}{848}\sqrt{1222}e^4 \otimes e_8 + \frac{9}{848}\sqrt{1830}e^3 \otimes e_7$	{123459, 1389, 2346, 3568}
952:74	$0, 0, 0, 0, \frac{44}{2887}\sqrt{1074}e^{12}, \frac{12}{2887}\sqrt{24702}e^{13}, \frac{60}{2887}\sqrt{895}e^{24},$ $\frac{12}{2887}\sqrt{6981}e^{15} + \frac{4}{2887}\sqrt{42602}e^{23}, \frac{4}{2887}\sqrt{158057}e^{36}$	$(\frac{262}{2887}, -\frac{210}{2887}, \frac{524}{2887}, -\frac{698}{2887}, \frac{52}{2887}, \frac{786}{2887}, -\frac{908}{2887}, \frac{314}{2887}, \frac{1310}{2887})$ $+ \frac{8}{2887}\sqrt{110085}e^3 \otimes e_7$	{1256789, 14679, 278, 457}
952:74	$0, 0, 0, 0, \frac{12}{571}\sqrt{322}e^{12}, \frac{12}{571}\sqrt{322}e^{13}, \frac{156}{571}\sqrt{7}e^{24},$ $\frac{156}{571}\sqrt{7}e^{15} + \frac{12}{571}\sqrt{770}e^{23}, \frac{12}{571}\sqrt{35}e^{36}$	$(\frac{18}{571}, -\frac{138}{571}, \frac{36}{571}, \frac{402}{571}, -\frac{120}{571}, \frac{54}{571}, \frac{264}{571}, -\frac{102}{571}, \frac{90}{571})$ $+ \frac{168}{571}\sqrt{17}e^4 \otimes e_8$	{1234569, 13689, 234, 358}
952:74	$0, 0, 0, 0, \frac{4}{1001}\sqrt{25026}e^{12}, \frac{4}{1001}\sqrt{6790}e^{13}, \frac{4}{1001}\sqrt{21631}e^{24},$ $\frac{4}{1001}\sqrt{5723}e^{15} + \frac{4}{1001}\sqrt{7178}e^{23}, \frac{4}{1001}\sqrt{29973}e^{36}$	$(-\frac{6}{91}, \frac{446}{1001}, -\frac{12}{91}, -\frac{6}{143}, \frac{380}{1001}, -\frac{18}{91}, \frac{404}{1001}, \frac{314}{1001}, -\frac{30}{91})$ $+ \frac{8}{1001}\sqrt{19885}e^2 \otimes e_9$	{1248, 1278, 4679, 69}
952:74	$0, 0, 0, 0, \frac{28}{3833}\sqrt{174}e^{12}, \frac{252}{3833}\sqrt{10}e^{13}, \frac{252}{3833}\sqrt{15}e^{24},$ $\frac{84}{3833}\sqrt{29}e^{15} + \frac{28}{3833}\sqrt{362}e^{23}, \frac{28}{3833}\sqrt{1157}e^{36}$	$(\frac{14}{3833}, \frac{462}{3833}, \frac{28}{3833}, -\frac{826}{3833}, \frac{476}{3833}, \frac{42}{3833}, -\frac{364}{3833}, \frac{490}{3833}, \frac{70}{3833})$ $+ \frac{112}{3833}\sqrt{123}e^3 \otimes e_7 + \frac{168}{3833}\sqrt{41}e^2 \otimes e_9$	{14679, 278}
952:74	$0, 0, 0, 0, \frac{4}{369}\sqrt{426}e^{12}, \frac{14}{369}\sqrt{142}e^{13}, \frac{2}{369}\sqrt{23430}e^{24},$ $\frac{2}{369}\sqrt{6106}e^{15} + \frac{4}{369}\sqrt{4047}e^{23}, \frac{2}{369}\sqrt{22862}e^{36}$	$(-\frac{16}{369}, \frac{25}{369}, -\frac{32}{369}, \frac{68}{123}, \frac{1}{41}, -\frac{16}{123}, \frac{229}{369}, -\frac{7}{369}, -\frac{80}{369})$ $+ \frac{2}{369}\sqrt{43310}e^4 \otimes e_9$	{125679, 1689, 24, 4578}
952:74	$0, 0, 0, 0, \frac{32}{1321}\sqrt{87}e^{12}, \frac{128}{1321}\sqrt{6}e^{13}, \frac{16}{1321}\sqrt{1005}e^{24},$ $\frac{48}{1321}\sqrt{71}e^{15} + \frac{16}{1321}\sqrt{6}e^{23}, \frac{16}{1321}\sqrt{555}e^{36}$	$(-\frac{56}{1321}, \frac{104}{1321}, -\frac{112}{1321}, \frac{376}{1321}, \frac{48}{1321}, -\frac{168}{1321}, \frac{480}{1321}, -\frac{8}{1321}, -\frac{280}{1321})$ $+ \frac{16}{1321}\sqrt{1698}e^4 \otimes e_8 + \frac{16}{1321}\sqrt{1830}e^2 \otimes e_9$	{1278, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:75	$0, 0, 0, 0, \frac{70}{4429}\sqrt{505e^{12}}, \frac{140}{4429}\sqrt{14e^{13}}, \frac{700}{4429}\sqrt{6e^{23}},$ $\frac{140}{4429}\sqrt{109e^{15}}, \frac{35}{4429}\sqrt{622e^{16}} + \frac{35}{4429}\sqrt{138e^{25}}$	$(\frac{665}{4429}, \frac{35}{4429}, -\frac{595}{4429}, -\frac{1190}{4429}, \frac{700}{4429}, \frac{70}{4429}, -\frac{560}{4429}, \frac{1365}{4429}, \frac{735}{4429})$ $+ \frac{105}{4429}\sqrt{374e^2} \otimes e_4 + \frac{35}{4429}\sqrt{4506e^1} \otimes e_7$	{12368, 256789}
952:75	$0, 0, 0, 0, \frac{2}{723}\sqrt{31719e^{12}}, \frac{2}{723}\sqrt{27645e^{13}}, \frac{2}{723}\sqrt{87009e^{23}},$ $\frac{4}{723}\sqrt{18042e^{15}}, \frac{8}{723}\sqrt{3201e^{16}} + \frac{8}{723}\sqrt{2910e^{25}}$	$(-\frac{167}{723}, \frac{27}{241}, \frac{329}{723}, \frac{37}{241}, -\frac{86}{723}, \frac{54}{241}, \frac{410}{723}, -\frac{253}{723}, -\frac{5}{723})$ $+ \frac{4}{241}\sqrt{4947e^3} \otimes e_8$	{123459, 12359, 458, 58}
952:75	$0, 0, 0, 0, \frac{2}{101}\sqrt{610e^{12}}, \frac{2}{101}\sqrt{610e^{13}}, \frac{2}{101}\sqrt{2806e^{23}}, \frac{2}{101}\sqrt{671e^{15}},$ $\frac{2}{101}\sqrt{671e^{16}} + \frac{2}{101}\sqrt{1037e^{25}}$	$(\frac{15}{101}, -\frac{2}{101}, -\frac{19}{101}, \frac{1}{101}, \frac{13}{101}, -\frac{4}{101}, -\frac{21}{101}, \frac{28}{101}, \frac{11}{101})$ $+ \frac{4}{101}\sqrt{1281e^4} \otimes e_7$	{12579, 1489, 234, 3578}
952:75	$0, 0, 0, 0, \frac{17}{1549}\sqrt{185e^{12}}, \frac{17}{1549}\sqrt{577e^{13}}, \frac{17}{1549}\sqrt{1131e^{23}},$ $\frac{17}{1549}\sqrt{421e^{15}}, \frac{17}{1549}\sqrt{802e^{16}} + \frac{17}{1549}\sqrt{687e^{25}}$	$(\frac{170}{1549}, \frac{17}{1549}, -\frac{136}{1549}, -\frac{425}{1549}, \frac{187}{1549}, \frac{34}{1549}, -\frac{119}{1549}, \frac{357}{1549}, \frac{204}{1549})$ $+ \frac{17}{1549}\sqrt{1662e^1} \otimes e_7 + \frac{51}{1549}\sqrt{127e^3} \otimes e_4$	{12359, 247}
952:75	$0, 0, 0, 0, \frac{4}{145}\sqrt{15e^{12}}, \frac{4}{145}\sqrt{5e^{13}}, \frac{2}{145}\sqrt{510e^{23}}, \frac{2}{145}\sqrt{830e^{15}},$ $\frac{2}{145}\sqrt{390e^{16}} + \frac{8}{145}\sqrt{30e^{25}}$	$(-\frac{2}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{10}{29}, 0, \frac{4}{29}, \frac{8}{29}, -\frac{2}{29}, \frac{2}{29})$ $+ \frac{2}{145}\sqrt{1290e^1} \otimes e_4 + \frac{4}{145}\sqrt{330e^3} \otimes e_8$	{12678, 34679}
952:75	$0, 0, 0, 0, \frac{10}{533}\sqrt{34e^{12}}, \frac{160}{533}e^{13}, \frac{10}{533}\sqrt{438e^{23}}, \frac{10}{533}\sqrt{226e^{15}},$ $\frac{10}{533}\sqrt{670e^{16}} + \frac{10}{533}\sqrt{138e^{25}}$	$(\frac{70}{533}, -\frac{20}{533}, -\frac{110}{533}, \frac{230}{533}, \frac{50}{533}, -\frac{40}{533}, -\frac{10}{533}, \frac{120}{533}, \frac{30}{533})$ $+ \frac{20}{533}\sqrt{303e^1} \otimes e_7 + \frac{30}{533}\sqrt{74e^4} \otimes e_9$	{1456, 3679}
952:75	$0, 0, 0, 0, \frac{8}{179}\sqrt{91e^{12}}, \frac{2}{179}\sqrt{3094e^{13}}, \frac{8}{179}\sqrt{91e^{23}}, \frac{2}{179}\sqrt{3731e^{15}},$ $\frac{2}{179}\sqrt{5369e^{16}} + \frac{2}{179}\sqrt{5369e^{25}}$	$(-\frac{7}{179}, \frac{2}{179}, \frac{11}{179}, 1, -\frac{5}{179}, \frac{4}{179}, \frac{13}{179}, -\frac{12}{179}, -\frac{3}{179})$ $+ \frac{10}{179}\sqrt{546e^4} \otimes e_9$	{124568, 1467, 236789, 3569}
952:75	$0, 0, 0, 0, \frac{2}{101}\sqrt{671e^{12}}, \frac{2}{101}\sqrt{1037e^{13}}, \frac{2}{101}\sqrt{671e^{23}}, \frac{2}{101}\sqrt{2806e^{15}},$ $\frac{2}{101}\sqrt{610e^{16}} + \frac{2}{101}\sqrt{610e^{25}}$	$(-\frac{13}{101}, \frac{5}{101}, \frac{23}{101}, 1, -\frac{8}{101}, \frac{10}{101}, \frac{28}{101}, -\frac{21}{101}, -\frac{3}{101})$ $+ \frac{4}{101}\sqrt{1281e^4} \otimes e_8$	{1278, 145, 23589, 3479}
952:75	$0, 0, 0, 0, \frac{23}{937}\sqrt{259e^{12}}, \frac{46}{937}\sqrt{73e^{13}}, \frac{23}{937}\sqrt{377e^{23}}, \frac{23}{937}\sqrt{181e^{15}},$ $\frac{23}{937}\sqrt{329e^{16}} + \frac{23}{937}\sqrt{11e^{25}}$	$(-\frac{161}{937}, \frac{46}{937}, \frac{253}{937}, \frac{460}{937}, -\frac{115}{937}, \frac{92}{937}, \frac{299}{937}, -\frac{276}{937}, -\frac{69}{937})$ $+ \frac{23}{937}\sqrt{699e^4} \otimes e_9 + \frac{69}{937}\sqrt{106e^3} \otimes e_8$	{1468, 2369}
952:75	$0, 0, 0, 0, \frac{14}{687}\sqrt{267e^{12}}, \frac{14}{687}\sqrt{39e^{13}}, \frac{14}{687}\sqrt{573e^{23}}, \frac{28}{687}\sqrt{105e^{15}},$ $\frac{112}{687}\sqrt{3e^{16}} + \frac{14}{687}\sqrt{114e^{25}}$	$(-\frac{77}{687}, \frac{21}{229}, \frac{203}{687}, -\frac{77}{229}, -\frac{14}{687}, \frac{42}{229}, \frac{266}{687}, -\frac{91}{687}, \frac{49}{687})$ $+ \frac{14}{229}\sqrt{102e^2} \otimes e_4 + \frac{14}{229}\sqrt{102e^3} \otimes e_8$	{1345679, 25678}
952:75	$0, 0, 0, 0, \frac{2}{179}\sqrt{3731e^{12}}, \frac{2}{179}\sqrt{5369e^{13}}, \frac{2}{179}\sqrt{5369e^{23}}, \frac{8}{179}\sqrt{91e^{15}},$ $\frac{2}{179}\sqrt{3094e^{16}} + \frac{2}{179}\sqrt{91e^{25}}$	$(-\frac{7}{179}, \frac{27}{179}, \frac{61}{179}, -\frac{121}{179}, \frac{20}{179}, \frac{54}{179}, \frac{88}{179}, \frac{13}{179}, \frac{47}{179})$ $+ \frac{10}{179}\sqrt{546e^3} \otimes e_4$	{123589, 1379, 2478, 45}
952:75	$0, 0, 0, 0, \frac{14}{6985}\sqrt{141e^{12}}, \frac{7}{6985}\sqrt{1406e^{13}}, \frac{7}{6985}\sqrt{5694e^{23}},$ $\frac{7}{6985}\sqrt{4622e^{15}}, \frac{14}{6985}\sqrt{663e^{16}} + \frac{7}{6985}\sqrt{3954e^{25}}$	$(-\frac{28}{6985}, -\frac{7}{1397}, -\frac{42}{6985}, \frac{553}{6985}, -\frac{63}{6985}, -\frac{14}{1397}, -\frac{7}{635}, -\frac{91}{6985}, -\frac{98}{6985})$ $+ \frac{7}{6985}\sqrt{5910e^3} \otimes e_8 + \frac{7}{6985}\sqrt{6954e^1} \otimes e_7$	{123459, 12359}
952:75	$0, 0, 0, 0, \frac{16}{755}\sqrt{211e^{12}}, \frac{16}{755}\sqrt{211e^{13}}, \frac{4}{755}\sqrt{14559e^{23}}, \frac{2}{755}\sqrt{47053e^{15}},$ $\frac{2}{755}\sqrt{47053e^{16}} + \frac{2}{755}\sqrt{42411e^{25}}$	$(\frac{181}{755}, -\frac{4}{151}, -\frac{221}{755}, \frac{119}{755}, \frac{161}{755}, -\frac{8}{151}, -\frac{241}{755}, \frac{342}{755}, \frac{141}{755})$ $+ \frac{4}{755}\sqrt{33549e^1} \otimes e_7$	{1456, 156, 34679, 3679}
952:75	$0, 0, 0, 0, \frac{2}{47}\sqrt{190e^{12}}, \frac{2}{47}\sqrt{190e^{13}}, \frac{2}{47}\sqrt{57e^{23}}, \frac{2}{47}\sqrt{190e^{15}},$ $\frac{2}{47}\sqrt{190e^{16}} + \frac{2}{47}\sqrt{57e^{25}}$	$(\frac{7}{47}, \frac{4}{47}, \frac{1}{47}, -\frac{31}{47}, \frac{11}{47}, \frac{8}{47}, \frac{5}{47}, \frac{18}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{741e^1} \otimes e_4$	{1268, 1567, 23456789, 3469}
952:75	$0, 0, 0, 0, \frac{41}{5965}\sqrt{1054e^{12}}, \frac{82}{5965}\sqrt{59e^{13}}, \frac{82}{5965}\sqrt{834e^{23}},$ $\frac{41}{5965}\sqrt{4378e^{15}}, \frac{41}{5965}\sqrt{1798e^{16}} + \frac{41}{5965}\sqrt{2766e^{25}}$	$(\frac{533}{5965}, -\frac{41}{1193}, -\frac{943}{5965}, \frac{2542}{5965}, \frac{328}{5965}, -\frac{82}{1193}, -\frac{1148}{5965}, \frac{861}{5965}, \frac{123}{5965})$ $+ \frac{123}{5965}\sqrt{430e^4} \otimes e_8 + \frac{41}{5965}\sqrt{6846e^1} \otimes e_7$	{12368, 256789}
952:75	$0, 0, 0, 0, \frac{2}{723}\sqrt{87009e^{12}}, \frac{2}{723}\sqrt{31719e^{13}}, \frac{2}{723}\sqrt{27645e^{23}},$ $\frac{4}{723}\sqrt{3201e^{15}}, \frac{8}{723}\sqrt{2910e^{16}} + \frac{4}{723}\sqrt{18042e^{25}}$	$(\frac{37}{723}, \frac{27}{241}, \frac{125}{723}, -\frac{167}{241}, \frac{118}{723}, \frac{54}{241}, \frac{206}{723}, \frac{155}{723}, \frac{199}{723})$ $+ \frac{4}{241}\sqrt{4947e^2} \otimes e_4$	{123689, 1345679, 25678, 46}
952:75	$0, 0, 0, 0, \frac{47}{6745}\sqrt{2102e^{12}}, \frac{94}{6745}\sqrt{66e^{13}}, \frac{47}{6745}\sqrt{6154e^{23}},$ $\frac{188}{6745}\sqrt{210e^{15}}, \frac{47}{6745}\sqrt{994e^{16}} + \frac{47}{6745}\sqrt{3134e^{25}}$	$(-\frac{141}{1349}, \frac{94}{6745}, \frac{47}{355}, \frac{3196}{6745}, -\frac{611}{6745}, \frac{188}{6745}, \frac{987}{6745}, -\frac{1316}{6745}, -\frac{517}{6745})$ $+ \frac{47}{6745}\sqrt{5286e^4} \otimes e_7 + \frac{611}{6745}\sqrt{42e^3} \otimes e_8$	{123459, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:76	$0, 0, 0, 0, -\frac{11}{900}\sqrt{394e^{12}}, \frac{11}{900}\sqrt{118e^{13}}, \frac{11}{450}\sqrt{346e^{23}}, \frac{11}{150}\sqrt{30e^{15}},$ $\frac{11}{900}\sqrt{934e^{25}} + \frac{11}{900}\sqrt{658e^{36}}$	$(-\frac{121}{900}, \frac{11}{150}, \frac{11}{150}, \frac{187}{450}, -\frac{11}{180}, -\frac{11}{180}, \frac{11}{75}, -\frac{44}{225}, \frac{11}{900})$ $+\frac{11}{450}\sqrt{526e^3} \otimes e_8 + \frac{77}{450}\sqrt{6e^4} \otimes e_7$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:76	$0, 0, 0, 0, \frac{11}{900}\sqrt{394e^{12}}, \frac{11}{900}\sqrt{118e^{13}}, \frac{11}{450}\sqrt{346e^{23}}, \frac{11}{150}\sqrt{30e^{15}},$ $\frac{11}{900}\sqrt{934e^{25}} + \frac{11}{900}\sqrt{658e^{36}}$	$(-\frac{121}{900}, \frac{11}{150}, \frac{11}{150}, \frac{187}{450}, -\frac{11}{180}, -\frac{11}{180}, \frac{11}{75}, -\frac{44}{225}, \frac{11}{900})$ $+\frac{11}{450}\sqrt{526e^3} \otimes e_8 + \frac{77}{450}\sqrt{6e^4} \otimes e_7$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:76	$0, 0, 0, 0, -\frac{1}{14}\sqrt{34e^{12}}, \frac{1}{7}\sqrt{17e^{13}}, \frac{1}{14}\sqrt{51e^{23}}, \frac{1}{7}\sqrt{51e^{15}},$ $\frac{1}{7}\sqrt{17e^{25}} + \frac{1}{14}\sqrt{34e^{36}}$	$(-\frac{5}{28}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{1}{28}, -\frac{1}{28}, \frac{2}{7}, -\frac{3}{14}, \frac{3}{28})$ $+\frac{1}{14}\sqrt{391e^4} \otimes e_8$	{12368, 1278, 134567, 145, 23589, 256789, 3479, 469, 12368, 1278, 134567, 145, 23589, 256789, 3479, 469}
952:76	$0, 0, 0, 0, \frac{1}{14}\sqrt{34e^{12}}, \frac{1}{7}\sqrt{17e^{13}}, \frac{1}{14}\sqrt{51e^{23}}, \frac{1}{7}\sqrt{51e^{15}},$ $\frac{1}{7}\sqrt{17e^{25}} + \frac{1}{14}\sqrt{34e^{36}}$	$(-\frac{5}{28}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{1}{28}, -\frac{1}{28}, \frac{2}{7}, -\frac{3}{14}, \frac{3}{28})$ $+\frac{1}{14}\sqrt{391e^4} \otimes e_8$	{12368, 1278, 134567, 145, 23589, 256789, 3479, 469, 12368, 1278, 134567, 145, 23589, 256789, 3479, 469}
952:76	$0, 0, 0, 0, -\frac{11}{890}\sqrt{922e^{12}}, \frac{11}{890}\sqrt{178e^{13}}, \frac{99}{445}\sqrt{3e^{23}}, \frac{11}{445}\sqrt{173e^{15}},$ $\frac{11}{890}\sqrt{154e^{25}} + \frac{11}{890}\sqrt{254e^{36}}$	$(\frac{77}{445}, -\frac{22}{445}, -\frac{22}{445}, -\frac{143}{445}, \frac{11}{89}, \frac{11}{89}, -\frac{44}{445}, \frac{132}{445}, \frac{33}{445})$ $+\frac{11}{445}\sqrt{377e^2} \otimes e_4 + \frac{11}{445}\sqrt{422e^1} \otimes e_7$	{123689, 1459, 25678, 347, 123689, 1459, 25678, 347}
952:76	$0, 0, 0, 0, \frac{11}{890}\sqrt{922e^{12}}, \frac{11}{890}\sqrt{178e^{13}}, \frac{99}{445}\sqrt{3e^{23}}, \frac{11}{445}\sqrt{173e^{15}},$ $\frac{11}{890}\sqrt{154e^{25}} + \frac{11}{890}\sqrt{254e^{36}}$	$(\frac{77}{445}, -\frac{22}{445}, -\frac{22}{445}, -\frac{143}{445}, \frac{11}{89}, \frac{11}{89}, -\frac{44}{445}, \frac{132}{445}, \frac{33}{445})$ $+\frac{11}{445}\sqrt{377e^2} \otimes e_4 + \frac{11}{445}\sqrt{422e^1} \otimes e_7$	{123689, 1459, 25678, 347, 123689, 1459, 25678, 347}
952:76	$0, 0, 0, 0, -\frac{20}{227}\sqrt{23e^{12}}, \frac{8}{227}\sqrt{230e^{13}}, \frac{2}{227}\sqrt{6095e^{23}}, \frac{4}{227}\sqrt{690e^{15}},$ $\frac{2}{227}\sqrt{9085e^{25}} + \frac{2}{227}\sqrt{7705e^{36}}$	$(\frac{11}{227}, -\frac{7}{227}, -\frac{7}{227}, 1, \frac{4}{227}, \frac{4}{227}, -\frac{14}{227}, \frac{15}{227}, -\frac{3}{227})$ $+\frac{4}{227}\sqrt{5405e^4} \otimes e_9$	{12379, 1269, 13589, 156789, 234567, 245, 3468, 478, 12379, 1269, 13589, 156789, 234567, 245, 3468, 478}
952:76	$0, 0, 0, 0, \frac{20}{227}\sqrt{23e^{12}}, \frac{8}{227}\sqrt{230e^{13}}, \frac{2}{227}\sqrt{6095e^{23}}, \frac{4}{227}\sqrt{690e^{15}},$ $\frac{2}{227}\sqrt{9085e^{25}} + \frac{2}{227}\sqrt{7705e^{36}}$	$(\frac{11}{227}, -\frac{7}{227}, -\frac{7}{227}, 1, \frac{4}{227}, \frac{4}{227}, -\frac{14}{227}, \frac{15}{227}, -\frac{3}{227})$ $+\frac{4}{227}\sqrt{5405e^4} \otimes e_9$	{12379, 1269, 13589, 156789, 234567, 245, 3468, 478, 12379, 1269, 13589, 156789, 234567, 245, 3468, 478}
952:76	$0, 0, 0, 0, -\frac{2}{169}\sqrt{3723e^{12}}, \frac{2}{169}\sqrt{1387e^{13}}, \frac{2}{169}\sqrt{2555e^{23}}, \frac{2}{169}\sqrt{146e^{15}},$ $\frac{4}{169}\sqrt{949e^{25}} + \frac{4}{169}\sqrt{365e^{36}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{62}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^2} \otimes e_4$	{12369, 1279, 13456789, 14589, 235, 2567, 3478, 468, 12369, 1279, 13456789, 14589, 235, 2567, 3478, 468}
952:76	$0, 0, 0, 0, \frac{2}{169}\sqrt{3723e^{12}}, \frac{2}{169}\sqrt{1387e^{13}}, \frac{2}{169}\sqrt{2555e^{23}}, \frac{2}{169}\sqrt{146e^{15}},$ $\frac{4}{169}\sqrt{949e^{25}} + \frac{4}{169}\sqrt{365e^{36}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{62}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^2} \otimes e_4$	{12369, 1279, 13456789, 14589, 235, 2567, 3478, 468, 12369, 1279, 13456789, 14589, 235, 2567, 3478, 468}
952:76	$0, 0, 0, 0, -\frac{4}{169}\sqrt{365e^{12}}, \frac{4}{169}\sqrt{949e^{13}}, \frac{2}{169}\sqrt{2555e^{23}}, \frac{2}{169}\sqrt{146e^{15}},$ $\frac{2}{169}\sqrt{1387e^{25}} + \frac{2}{169}\sqrt{3723e^{36}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{62}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^3} \otimes e_4$	{123589, 12456789, 1379, 1469, 2368, 2478, 3567, 45, 123589, 12456789, 1379, 1469, 2368, 2478, 3567, 45}
952:76	$0, 0, 0, 0, \frac{4}{169}\sqrt{365e^{12}}, \frac{4}{169}\sqrt{949e^{13}}, \frac{2}{169}\sqrt{2555e^{23}}, \frac{2}{169}\sqrt{146e^{15}},$ $\frac{2}{169}\sqrt{1387e^{25}} + \frac{2}{169}\sqrt{3723e^{36}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{62}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^3} \otimes e_4$	{123589, 12456789, 1379, 1469, 2368, 2478, 3567, 45, 123589, 12456789, 1379, 1469, 2368, 2478, 3567, 45}
952:76	$0, 0, 0, 0, -\frac{3}{161}\sqrt{394e^{12}}, \frac{2}{161}\sqrt{1970e^{13}}, \frac{1}{161}\sqrt{28762e^{23}}, \frac{2}{161}\sqrt{2167e^{15}},$ $\frac{2}{161}\sqrt{1970e^{25}} + \frac{3}{161}\sqrt{394e^{36}}$	$(\frac{33}{161}, -\frac{18}{161}, -\frac{18}{161}, 1, \frac{15}{161}, \frac{15}{161}, -\frac{36}{161}, \frac{48}{161}, -\frac{3}{161})$ $+\frac{3}{161}\sqrt{5910e^4} \otimes e_7$	{1234569, 12579, 136789, 1489, 234, 267, 3578, 4568, 1234569, 12579, 136789, 1489, 234, 267, 3578, 4568}
952:76	$0, 0, 0, 0, \frac{3}{161}\sqrt{394e^{12}}, \frac{2}{161}\sqrt{1970e^{13}}, \frac{1}{161}\sqrt{28762e^{23}}, \frac{2}{161}\sqrt{2167e^{15}},$ $\frac{2}{161}\sqrt{1970e^{25}} + \frac{3}{161}\sqrt{394e^{36}}$	$(\frac{33}{161}, -\frac{18}{161}, -\frac{18}{161}, 1, \frac{15}{161}, \frac{15}{161}, -\frac{36}{161}, \frac{48}{161}, -\frac{3}{161})$ $+\frac{3}{161}\sqrt{5910e^4} \otimes e_7$	{1234569, 12579, 136789, 1489, 234, 267, 3578, 4568, 1234569, 12579, 136789, 1489, 234, 267, 3578, 4568}
952:76	$0, 0, 0, 0, -\frac{22}{653}\sqrt{31e^{12}}, \frac{22}{653}\sqrt{89e^{13}}, \frac{22}{653}\sqrt{79e^{23}}, \frac{22}{653}\sqrt{138e^{15}},$ $\frac{110}{653}\sqrt{2e^{25}} + \frac{88}{653}\sqrt{13e^{36}}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+\frac{220}{653}\sqrt{2e^4} \otimes e_9 + \frac{66}{653}\sqrt{42e^3} \otimes e_8$	{12359, 1689, 2346, 458, 12359, 1689, 2346, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:76	$0, 0, 0, 0, \frac{22}{653} \sqrt{31}e^{12}, \frac{22}{653} \sqrt{89}e^{13}, \frac{22}{653} \sqrt{79}e^{23}, \frac{22}{653} \sqrt{138}e^{15},$ $\frac{110}{653} \sqrt{2}e^{25} + \frac{88}{653} \sqrt{13}e^{36}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+\frac{220}{653} \sqrt{2}e^4 \otimes e_9 + \frac{66}{653} \sqrt{42}e^3 \otimes e_8$	{12359, 1689, 2346, 458, 12359, 1689, 2346, 458}
952:76	$0, 0, 0, 0, -\frac{13}{1058} \sqrt{638}e^{12}, \frac{143}{1058} \sqrt{2}e^{13}, \frac{13}{529} \sqrt{251}e^{23}, \frac{26}{529} \sqrt{110}e^{15},$ $\frac{13}{1058} \sqrt{806}e^{25} + \frac{13}{1058} \sqrt{74}e^{36}$	$(\frac{65}{529}, -\frac{52}{529}, -\frac{52}{529}, \frac{247}{529}, \frac{13}{529}, \frac{13}{529}, -\frac{104}{529}, \frac{78}{529}, -\frac{39}{529})$ $+\frac{13}{529} \sqrt{389}e^4 \otimes e_8 + \frac{26}{529} \sqrt{141}e^1 \otimes e_7$	{12368, 145, 256789, 3479, 12368, 145, 256789, 3479}
952:76	$0, 0, 0, 0, \frac{13}{1058} \sqrt{638}e^{12}, \frac{143}{1058} \sqrt{2}e^{13}, \frac{13}{529} \sqrt{251}e^{23}, \frac{26}{529} \sqrt{110}e^{15},$ $\frac{13}{1058} \sqrt{806}e^{25} + \frac{13}{1058} \sqrt{74}e^{36}$	$(\frac{65}{529}, -\frac{52}{529}, -\frac{52}{529}, \frac{247}{529}, \frac{13}{529}, \frac{13}{529}, -\frac{104}{529}, \frac{78}{529}, -\frac{39}{529})$ $+\frac{13}{529} \sqrt{389}e^4 \otimes e_8 + \frac{26}{529} \sqrt{141}e^1 \otimes e_7$	{12368, 145, 256789, 3479, 12368, 145, 256789, 3479}
952:76	$0, 0, 0, 0, -\frac{2}{171} \sqrt{799}e^{12}, \frac{2}{171} \sqrt{1081}e^{13}, \frac{2}{171} \sqrt{2491}e^{23}, \frac{2}{171} \sqrt{3102}e^{15},$ $\frac{10}{171} \sqrt{94}e^{25} + \frac{4}{171} \sqrt{658}e^{36}$	$(-\frac{47}{171}, \frac{13}{57}, \frac{13}{57}, \frac{25}{171}, -\frac{8}{171}, -\frac{8}{171}, \frac{26}{57}, -\frac{55}{171}, \frac{31}{171})$ $+\frac{2}{171} \sqrt{6862}e^3 \otimes e_8$	{123459, 12359, 14689, 1689, 2346, 236, 458, 58, 123459, 12359, 14689, 1689, 2346, 236, 458, 58}
952:76	$0, 0, 0, 0, \frac{2}{171} \sqrt{799}e^{12}, \frac{2}{171} \sqrt{1081}e^{13}, \frac{2}{171} \sqrt{2491}e^{23}, \frac{2}{171} \sqrt{3102}e^{15},$ $\frac{10}{171} \sqrt{94}e^{25} + \frac{4}{171} \sqrt{658}e^{36}$	$(-\frac{47}{171}, \frac{13}{57}, \frac{13}{57}, \frac{25}{171}, -\frac{8}{171}, -\frac{8}{171}, \frac{26}{57}, -\frac{55}{171}, \frac{31}{171})$ $+\frac{2}{171} \sqrt{6862}e^3 \otimes e_8$	{123459, 12359, 14689, 1689, 2346, 236, 458, 58, 123459, 12359, 14689, 1689, 2346, 236, 458, 58}
952:76	$0, 0, 0, 0, -\frac{5}{233} \sqrt{385}e^{12}, \frac{5}{233} \sqrt{165}e^{13}, \frac{10}{233} \sqrt{55}e^{23}, \frac{10}{233} \sqrt{110}e^{15},$ $\frac{5}{233} \sqrt{55}e^{25} + \frac{25}{233} \sqrt{11}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233} \sqrt{1230}e^1 \otimes e_7 + \frac{5}{233} \sqrt{790}e^4 \otimes e_9$	{12389, 1569, 24578, 3467, 12389, 1569, 24578, 3467}
952:76	$0, 0, 0, 0, \frac{5}{233} \sqrt{385}e^{12}, \frac{5}{233} \sqrt{165}e^{13}, \frac{10}{233} \sqrt{55}e^{23}, \frac{10}{233} \sqrt{110}e^{15},$ $\frac{5}{233} \sqrt{55}e^{25} + \frac{25}{233} \sqrt{11}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233} \sqrt{1230}e^1 \otimes e_7 + \frac{5}{233} \sqrt{790}e^4 \otimes e_9$	{12389, 1569, 24578, 3467, 12389, 1569, 24578, 3467}
952:78	$0, 0, 0, 0, \frac{2}{659} \sqrt{20919}e^{12}, \frac{14}{659} \sqrt{1101}e^{13}, \frac{2}{659} \sqrt{73033}e^{23},$ $\frac{2}{659} \sqrt{126982}e^{25}, \frac{12}{659} \sqrt{1835}e^{15} + \frac{2}{659} \sqrt{60922}e^{36}$	$(\frac{95}{659}, -\frac{85}{659}, \frac{5}{659}, 1, \frac{10}{659}, \frac{100}{659}, -\frac{80}{659}, -\frac{75}{659}, \frac{105}{659})$ $+\frac{12}{659} \sqrt{5505}e^4 \otimes e_8$	{13589, 156789, 234567, 245}
952:78	$0, 0, 0, 0, \frac{2}{655} \sqrt{2679}e^{12}, \frac{282}{655} e^{13}, \frac{2}{655} \sqrt{8131}e^{23}, \frac{4}{655} \sqrt{4747}e^{25},$ $\frac{16}{655} \sqrt{282}e^{15} + \frac{4}{655} \sqrt{4747}e^{36}$	$(\frac{97}{655}, -\frac{19}{131}, \frac{1}{655}, \frac{79}{655}, \frac{2}{655}, \frac{98}{655}, -\frac{94}{655}, -\frac{93}{655}, \frac{99}{655})$ $+\frac{48}{655} \sqrt{47}e^3 \otimes e_8$	{1234579, 123579, 4578, 578}
952:78	$0, 0, 0, 0, \frac{2}{311} \sqrt{5190}e^{12}, \frac{1}{311} \sqrt{10726}e^{13}, \frac{18}{311} \sqrt{173}e^{23}, \frac{2}{311} \sqrt{8823}e^{25},$ $\frac{2}{311} \sqrt{15743}e^{15} + \frac{2}{311} \sqrt{8823}e^{36}$	$(\frac{100}{311}, -\frac{82}{311}, \frac{9}{311}, \frac{38}{311}, \frac{18}{311}, \frac{109}{311}, -\frac{73}{311}, -\frac{64}{311}, \frac{118}{311})$ $+\frac{1}{311} \sqrt{94458}e^1 \otimes e_7$	{123469, 12369, 3478, 378}
952:78	$0, 0, 0, 0, \frac{60}{589} \sqrt{2}e^{12}, \frac{60}{589} \sqrt{19}e^{13}, \frac{5}{589} \sqrt{1398}e^{23}, \frac{20}{589} \sqrt{165}e^{25},$ $\frac{5}{589} \sqrt{2514}e^{15} + \frac{20}{589} \sqrt{165}e^{36}$	$(\frac{90}{589}, -\frac{80}{589}, \frac{5}{589}, 0, \frac{10}{589}, \frac{5}{31}, -\frac{75}{589}, -\frac{70}{589}, \frac{100}{589})$ $+\frac{5}{589} \sqrt{3534}e^3 \otimes e_8 + \frac{5}{589} \sqrt{474}e^4 \otimes e_7$	{1234579, 4578}
952:78	$0, 0, 0, 0, \frac{12}{41} \sqrt{2}e^{12}, \frac{4}{41} \sqrt{74}e^{13}, \frac{4}{41} \sqrt{6}e^{23}, \frac{4}{41} \sqrt{22}e^{25},$ $\frac{4}{41} \sqrt{46}e^{15} + \frac{8}{41} \sqrt{17}e^{36}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41} \sqrt{138}e^3 \otimes e_4$	{12359, 1245679, 35678, 458}
952:78	$0, 0, 0, 0, \frac{16}{589} \sqrt{249}e^{12}, \frac{4}{589} \sqrt{11039}e^{13}, \frac{8}{589} \sqrt{7387}e^{23}, \frac{4}{589} \sqrt{12367}e^{25},$ $\frac{4}{589} \sqrt{14110}e^{15} + \frac{4}{589} \sqrt{12367}e^{36}$	$(\frac{90}{589}, -\frac{80}{589}, \frac{5}{589}, 1, \frac{10}{589}, \frac{5}{31}, -\frac{75}{589}, -\frac{70}{589}, \frac{100}{589})$ $+\frac{4}{589} \sqrt{42330}e^4 \otimes e_7$	{136789, 1489, 234, 267}
952:78	$0, 0, 0, 0, \frac{4}{121} \sqrt{15}e^{12}, \frac{3}{121} \sqrt{106}e^{13}, \frac{2}{121} \sqrt{177}e^{23}, \frac{2}{121} \sqrt{267}e^{25},$ $\frac{6}{121} \sqrt{33}e^{15} + \frac{2}{121} \sqrt{267}e^{36}$	$(0, -\frac{2}{121}, -\frac{1}{121}, \frac{18}{121}, -\frac{2}{121}, -\frac{1}{121}, -\frac{3}{121}, -\frac{4}{121}, -\frac{2}{121})$ $+\frac{1}{121} \sqrt{582}e^1 \otimes e_7 + \frac{20}{121} \sqrt{3}e^3 \otimes e_8$	{1234579, 123579}
952:78	$0, 0, 0, 0, \frac{31}{4705} \sqrt{2262}e^{12}, \frac{31}{4705} \sqrt{1198}e^{13}, \frac{217}{4705} \sqrt{78}e^{23},$ $\frac{31}{4705} \sqrt{974}e^{25}, \frac{62}{4705} \sqrt{851}e^{15} + \frac{31}{4705} \sqrt{2146}e^{36}$	$(\frac{713}{4705}, -\frac{403}{4705}, \frac{31}{941}, -\frac{1364}{4705}, \frac{62}{941}, \frac{868}{4705}, -\frac{248}{4705}, -\frac{93}{4705}, \frac{1023}{4705})$ $+\frac{31}{4705} \sqrt{5106}e^1 \otimes e_7 + \frac{62}{4705} \sqrt{879}e^2 \otimes e_4$	{12369, 3478}
952:78	$0, 0, 0, 0, \frac{20}{1601} \sqrt{114}e^{12}, \frac{600}{1601} e^{13}, \frac{20}{1601} \sqrt{379}e^{23}, \frac{20}{1601} \sqrt{862}e^{25},$ $\frac{20}{1601} \sqrt{777}e^{15} + \frac{20}{1601} \sqrt{919}e^{36}$	$(\frac{170}{1601}, -\frac{190}{1601}, -\frac{10}{1601}, \frac{350}{1601}, -\frac{20}{1601}, \frac{160}{1601}, -\frac{200}{1601}, -\frac{210}{1601}, \frac{150}{1601})$ $+\frac{60}{1601} \sqrt{139}e^3 \otimes e_8 + \frac{60}{1601} \sqrt{19}e^4 \otimes e_9$	{123579, 4578}
952:78	$0, 0, 0, 0, \frac{35}{2377} \sqrt{798}e^{12}, \frac{35}{2377} \sqrt{178}e^{13}, \frac{35}{2377} \sqrt{1686}e^{23},$ $\frac{35}{2377} \sqrt{746}e^{25}, \frac{140}{2377} \sqrt{122}e^{15} + \frac{35}{2377} \sqrt{1030}e^{36}$	$(\frac{665}{2377}, -\frac{595}{2377}, \frac{35}{2377}, \frac{700}{2377}, \frac{70}{2377}, \frac{700}{2377}, -\frac{560}{2377}, -\frac{525}{2377}, \frac{735}{2377})$ $+\frac{35}{2377} \sqrt{3354}e^1 \otimes e_7 + \frac{70}{2377} \sqrt{213}e^4 \otimes e_8$	{123469, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:78	$0, 0, 0, 0, \frac{6}{161}e^{12}, \frac{2}{161}\sqrt{57}e^{13}, \frac{2}{161}\sqrt{19}e^{23}, \frac{4}{161}\sqrt{19}e^{25},$ $\frac{8}{161}\sqrt{3}e^{15} + \frac{4}{161}\sqrt{19}e^{36}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $-\frac{8}{161}\sqrt{3}e^2 \otimes e_9 + \frac{8}{161}\sqrt{6}e^3 \otimes e_8$	{1456789, 156789, 234567, 23567}
952:78	$0, 0, 0, 0, \frac{6}{161}e^{12}, \frac{2}{161}\sqrt{57}e^{13}, \frac{2}{161}\sqrt{19}e^{23}, \frac{4}{161}\sqrt{19}e^{25},$ $\frac{8}{161}\sqrt{3}e^{15} + \frac{4}{161}\sqrt{19}e^{36}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+\frac{8}{161}\sqrt{3}e^2 \otimes e_9 + \frac{8}{161}\sqrt{6}e^3 \otimes e_8$	{1456789, 156789, 234567, 23567}
952:78	$0, 0, 0, 0, \frac{6}{407}\sqrt{57}e^{12}, \frac{162}{407}e^{13}, \frac{6}{407}\sqrt{303}e^{23}, \frac{24}{407}\sqrt{42}e^{25},$ $\frac{6}{407}\sqrt{606}e^{15} + \frac{24}{407}\sqrt{42}e^{36}$	$(\frac{63}{407}, -\frac{57}{407}, \frac{3}{407}, \frac{9}{407}, \frac{6}{407}, \frac{6}{407}, -\frac{54}{407}, -\frac{51}{407}, \frac{69}{407})$ $+\frac{6}{407}\sqrt{114}e^1 \otimes e_4 + \frac{6}{407}\sqrt{966}e^3 \otimes e_8$	{123579, 4578}
952:78	$0, 0, 0, 0, \frac{37}{4681}\sqrt{1362}e^{12}, \frac{37}{4681}\sqrt{982}e^{13}, \frac{111}{4681}\sqrt{358}e^{23},$ $\frac{481}{4681}\sqrt{14}e^{25}, \frac{148}{4681}\sqrt{293}e^{15} + \frac{37}{4681}\sqrt{1354}e^{36}$	$(\frac{629}{4681}, -\frac{703}{4681}, -\frac{37}{4681}, \frac{1924}{4681}, -\frac{74}{4681}, \frac{592}{4681}, -\frac{740}{4681}, -\frac{777}{4681}, \frac{555}{4681})$ $+\frac{37}{4681}\sqrt{5514}e^1 \otimes e_7 + \frac{74}{4681}\sqrt{759}e^4 \otimes e_9$	{12369, 3478}
952:78	$0, 0, 0, 0, \frac{2}{659}\sqrt{20919}e^{12}, \frac{2}{659}\sqrt{12111}e^{13}, \frac{2}{659}\sqrt{6973}e^{23}, \frac{2}{659}\sqrt{5138}e^{25},$ $\frac{12}{659}\sqrt{1835}e^{15} + \frac{2}{659}\sqrt{60922}e^{36}$	$(-\frac{85}{659}, \frac{95}{659}, \frac{5}{659}, 1, \frac{10}{659}, -\frac{80}{659}, \frac{100}{659}, \frac{105}{659}, -\frac{75}{659})$ $+\frac{12}{659}\sqrt{5505}e^4 \otimes e_9$	{13456, 1457, 235789, 25689}
952:78	$0, 0, 0, 0, \frac{24}{407}\sqrt{10}e^{12}, \frac{8}{407}\sqrt{206}e^{13}, \frac{8}{407}\sqrt{546}e^{23}, \frac{8}{407}\sqrt{254}e^{25},$ $\frac{8}{407}\sqrt{374}e^{15} + \frac{16}{407}\sqrt{13}e^{36}$	$(\frac{8}{37}, -\frac{56}{407}, \frac{16}{407}, \frac{112}{407}, \frac{32}{407}, \frac{104}{407}, -\frac{40}{407}, -\frac{24}{407}, \frac{120}{407})$ $+\frac{8}{407}\sqrt{606}e^3 \otimes e_4 + \frac{96}{407}\sqrt{6}e^1 \otimes e_7$	{1456, 245789}
952:78	$0, 0, 0, 0, \frac{42}{1829}e^{12}, \frac{14}{1829}\sqrt{843}e^{13}, \frac{14}{1829}\sqrt{283}e^{23}, \frac{196}{1829}\sqrt{5}e^{25},$ $\frac{84}{1829}\sqrt{23}e^{15} + \frac{42}{1829}\sqrt{94}e^{36}$	$(\frac{161}{1829}, -\frac{119}{1829}, \frac{21}{1829}, -\frac{7}{59}, \frac{42}{1829}, \frac{182}{1829}, -\frac{98}{1829}, -\frac{77}{1829}, \frac{203}{1829})$ $+\frac{14}{1829}\sqrt{402}e^2 \otimes e_4 + \frac{42}{1829}\sqrt{138}e^3 \otimes e_8$	{1456789, 23567}
952:80	$0, 0, 0, 0, \frac{17}{1817}\sqrt{535}e^{12}, \frac{68}{1817}\sqrt{62}e^{13}, \frac{17}{1817}\sqrt{1049}e^{14},$ $\frac{34}{1817}\sqrt{293}e^{15}, \frac{17}{1817}\sqrt{715}e^{16} + \frac{102}{1817}\sqrt{15}e^{25}$	$(-\frac{51}{1817}, \frac{136}{1817}, \frac{323}{1817}, -\frac{340}{1817}, \frac{85}{1817}, \frac{272}{1817}, -\frac{17}{79}, \frac{34}{1817}, \frac{221}{1817})$ $+\frac{17}{1817}\sqrt{1371}e^3 \otimes e_8 + \frac{34}{1817}\sqrt{499}e^1 \otimes e_4$	{1268, 3469}
952:80	$0, 0, 0, 0, \frac{19}{5733}\sqrt{1358}e^{12}, \frac{19}{5733}\sqrt{1034}e^{13}, \frac{38}{5733}\sqrt{1211}e^{14},$ $\frac{76}{5733}\sqrt{142}e^{15}, \frac{19}{5733}\sqrt{1118}e^{16} + \frac{38}{5733}\sqrt{1238}e^{25}$	$(-\frac{475}{5733}, \frac{76}{1911}, \frac{19}{117}, \frac{38}{637}, -\frac{19}{441}, \frac{152}{1911}, -\frac{19}{819}, \frac{722}{5733}, -\frac{19}{5733})$ $+\frac{190}{5733}\sqrt{47}e^4 \otimes e_9 + \frac{19}{5733}\sqrt{5938}e^2 \otimes e_7$	{1356789, 4678}
952:80	$0, 0, 0, 0, \frac{1}{233}\sqrt{19758}e^{12}, \frac{1}{233}\sqrt{10434}e^{13}, \frac{1}{233}\sqrt{21534}e^{14}, \frac{4}{233}\sqrt{222}e^{15},$ $\frac{6}{233}\sqrt{518}e^{16} + \frac{111}{233}\sqrt{2}e^{25}$	$(-\frac{10}{233}, \frac{33}{233}, \frac{76}{233}, -\frac{68}{233}, \frac{23}{233}, \frac{66}{233}, -\frac{78}{233}, \frac{13}{233}, \frac{56}{233})$ $+\frac{6}{233}\sqrt{1258}e^2 \otimes e_7$	{123469, 1356789, 256, 4678}
952:80	$0, 0, 0, 0, \frac{1}{295}\sqrt{642}e^{12}, \frac{1}{295}\sqrt{53286}e^{13}, \frac{1}{295}\sqrt{27606}e^{14}, \frac{4}{295}\sqrt{3531}e^{15},$ $\frac{6}{295}\sqrt{107}e^{16} + \frac{3}{295}\sqrt{1070}e^{25}$	$(-\frac{86}{295}, \frac{63}{295}, \frac{212}{295}, \frac{92}{295}, -\frac{23}{295}, \frac{126}{295}, \frac{6}{295}, -\frac{109}{295}, \frac{8}{59})$ $+\frac{6}{295}\sqrt{4387}e^3 \otimes e_8$	{124678, 1268, 3469, 3679}
952:80	$0, 0, 0, 0, \frac{11}{1869}\sqrt{3054}e^{12}, \frac{11}{1869}\sqrt{2562}e^{13}, \frac{11}{623}\sqrt{494}e^{14},$ $\frac{44}{1869}\sqrt{66}e^{15}, \frac{22}{623}\sqrt{102}e^{16} + \frac{11}{623}\sqrt{370}e^{25}$	$(-\frac{242}{1869}, \frac{55}{623}, \frac{572}{1869}, \frac{44}{1869}, -\frac{11}{267}, \frac{110}{623}, -\frac{66}{623}, -\frac{319}{1869}, \frac{88}{1869})$ $+\frac{176}{1869}\sqrt{15}e^4 \otimes e_8 + \frac{22}{1869}\sqrt{1626}e^2 \otimes e_7$	{2568, 467}
952:80	$0, 0, 0, 0, \frac{1}{1153}\sqrt{212394}e^{12}, \frac{1}{1153}\sqrt{548490}e^{13}, \frac{1}{1153}\sqrt{865914}e^{14},$ $\frac{2}{1153}\sqrt{243903}e^{15}, \frac{6}{1153}\sqrt{15171}e^{16} + \frac{3}{1153}\sqrt{778}e^{25}$	$(-\frac{236}{1153}, \frac{87}{1153}, \frac{410}{1153}, \frac{782}{1153}, -\frac{149}{1153}, \frac{174}{1153}, \frac{546}{1153}, -\frac{385}{1153}, -\frac{62}{1153})$ $+\frac{6}{1153}\sqrt{63407}e^4 \otimes e_8$	{1278, 145, 23589, 3479}
952:80	$0, 0, 0, 0, \frac{246}{3893}\sqrt{19}e^{12}, \frac{82}{3893}\sqrt{582}e^{13}, \frac{41}{3893}\sqrt{758}e^{14},$ $\frac{3893}{3893}\sqrt{219}e^{15}, \frac{41}{3893}\sqrt{1698}e^{16} + \frac{3893}{3893}e^{25}$	$(\frac{246}{3893}, \frac{369}{3893}, \frac{492}{3893}, -\frac{1435}{3893}, \frac{615}{3893}, \frac{738}{3893}, -\frac{1189}{3893}, \frac{861}{3893}, \frac{984}{3893})$ $+\frac{123}{3893}\sqrt{274}e^3 \otimes e_7 + \frac{41}{3893}\sqrt{4474}e^1 \otimes e_4$	{2345689, 3469}
952:80	$0, 0, 0, 0, \frac{23}{937}\sqrt{259}e^{12}, \frac{46}{937}\sqrt{73}e^{13}, \frac{23}{937}\sqrt{377}e^{14}, \frac{322}{937}e^{15},$ $\frac{23}{937}\sqrt{329}e^{16} + \frac{46}{937}\sqrt{97}e^{25}$	$(-\frac{161}{937}, \frac{46}{937}, \frac{253}{937}, \frac{460}{937}, -\frac{115}{937}, \frac{92}{937}, \frac{299}{937}, -\frac{276}{937}, -\frac{69}{937})$ $+\frac{23}{937}\sqrt{577}e^3 \otimes e_8 + \frac{46}{937}\sqrt{269}e^4 \otimes e_9$	{124568, 3569}
952:80	$0, 0, 0, 0, \frac{13}{2271}\sqrt{3138}e^{12}, \frac{52}{2271}\sqrt{183}e^{13}, \frac{13}{757}\sqrt{586}e^{14},$ $\frac{26}{757}\sqrt{118}e^{15}, \frac{13}{2271}\sqrt{2262}e^{16} + \frac{13}{757}\sqrt{370}e^{25}$	$(-\frac{338}{2271}, \frac{143}{2271}, \frac{208}{757}, \frac{455}{2271}, -\frac{65}{757}, \frac{286}{2271}, \frac{39}{757}, -\frac{533}{2271}, -\frac{52}{2271})$ $+\frac{13}{2271}\sqrt{5622}e^3 \otimes e_7 + \frac{13}{2271}\sqrt{6954}e^4 \otimes e_9$	{23689, 3569}
952:80	$0, 0, 0, 0, \frac{106}{5685}\sqrt{226}e^{12}, \frac{53}{5685}\sqrt{874}e^{13}, \frac{106}{5685}\sqrt{983}e^{14},$ $\frac{53}{1895}\sqrt{70}e^{15}, \frac{53}{1895}\sqrt{114}e^{16} + \frac{106}{5685}\sqrt{122}e^{25}$	$(-\frac{1219}{5685}, \frac{742}{5685}, \frac{901}{1895}, \frac{371}{1895}, -\frac{159}{1895}, \frac{1484}{1895}, -\frac{106}{5685}, -\frac{1696}{5685}, \frac{53}{1137})$ $+\frac{106}{5685}\sqrt{1303}e^3 \otimes e_7 + \frac{53}{5685}\sqrt{5090}e^4 \otimes e_8$	{12345, 2479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:80	$0, 0, 0, 0, \frac{2}{787}\sqrt{47235}e^{12}, \frac{2}{787}\sqrt{47235}e^{13}, \frac{20}{787}\sqrt{611}e^{14}, \frac{18}{787}\sqrt{705}e^{15},$ $\frac{18}{787}\sqrt{705}e^{16} + \frac{6}{787}\sqrt{3290}e^{25}$	$(\frac{159}{787}, \frac{33}{787}, -\frac{93}{787}, -\frac{311}{787}, \frac{192}{787}, \frac{66}{787}, -\frac{152}{787}, \frac{351}{787}, \frac{225}{787})$ $+ \frac{2}{787}\sqrt{159565}e^1 \otimes e_4$	{1268, 156, 2345689, 3469}
952:80	$0, 0, 0, 0, \frac{40}{3607}\sqrt{791}e^{12}, \frac{120}{3607}\sqrt{103}e^{13}, \frac{40}{3607}\sqrt{854}e^{14},$ $\frac{40}{3607}\sqrt{1402}e^{15}, \frac{40}{3607}\sqrt{221}e^{16} + \frac{40}{3607}\sqrt{305}e^{25}$	$(\frac{180}{3607}, -\frac{220}{3607}, -\frac{620}{3607}, \frac{940}{3607}, -\frac{40}{3607}, -\frac{440}{3607}, \frac{1120}{3607}, \frac{140}{3607}, -\frac{260}{3607})$ $- \frac{280}{3607}\sqrt{37}e^1 \otimes e_3 + \frac{80}{3607}\sqrt{382}e^4 \otimes e_8$	{1278, 145, 23589, 3479}
952:80	$0, 0, 0, 0, \frac{40}{3607}\sqrt{791}e^{12}, \frac{120}{3607}\sqrt{103}e^{13}, \frac{40}{3607}\sqrt{854}e^{14},$ $\frac{40}{3607}\sqrt{1402}e^{15}, \frac{40}{3607}\sqrt{221}e^{16} + \frac{40}{3607}\sqrt{305}e^{25}$	$(\frac{180}{3607}, -\frac{220}{3607}, -\frac{620}{3607}, \frac{940}{3607}, -\frac{40}{3607}, -\frac{440}{3607}, \frac{1120}{3607}, \frac{140}{3607}, -\frac{260}{3607})$ $+ \frac{280}{3607}\sqrt{37}e^1 \otimes e_3 + \frac{80}{3607}\sqrt{382}e^4 \otimes e_8$	{1278, 145, 23589, 3479}
952:80	$0, 0, 0, 0, \frac{8}{2345}\sqrt{33321}e^{12}, \frac{2}{2345}\sqrt{981246}e^{13}, \frac{2}{2345}\sqrt{921498}e^{14},$ $\frac{6}{2345}\sqrt{70855}e^{15}, \frac{4}{2345}\sqrt{29874}e^{16} + \frac{6}{2345}\sqrt{34853}e^{25}$	$(-\frac{373}{2345}, \frac{559}{2345}, \frac{213}{335}, -\frac{62}{335}, \frac{186}{2345}, \frac{1118}{2345}, -\frac{807}{2345}, -\frac{187}{2345}, \frac{149}{469})$ $+ \frac{6}{2345}\sqrt{252397}e^3 \otimes e_7$	{125678, 167, 23689, 3569}
952:80	$0, 0, 0, 0, \frac{25}{313}\sqrt{42}e^{12}, \frac{15}{313}\sqrt{10}e^{13}, \frac{100}{313}e^{14}, \frac{20}{313}\sqrt{15}e^{15},$ $\frac{5}{313}\sqrt{330}e^{16} + \frac{60}{313}\sqrt{5}e^{25}$	$(\frac{15}{313}, \frac{30}{313}, \frac{45}{313}, -\frac{110}{313}, \frac{45}{313}, \frac{60}{313}, -\frac{95}{313}, \frac{60}{313}, \frac{75}{313})$ $+ \frac{10}{313}\sqrt{265}e^1 \otimes e_4 + \frac{15}{313}\sqrt{190}e^2 \otimes e_7$	{135679, 467}
952:80	$0, 0, 0, 0, \frac{8}{2357}\sqrt{24447}e^{12}, \frac{2}{2357}\sqrt{176187}e^{13}, \frac{4}{2357}\sqrt{193047}e^{14},$ $\frac{6}{2357}\sqrt{69407}e^{15}, \frac{22}{2357}\sqrt{4215}e^{16} + \frac{6}{2357}\sqrt{77837}e^{25}$	$(-\frac{187}{2357}, -\frac{29}{2357}, \frac{129}{2357}, \frac{1441}{2357}, -\frac{216}{2357}, -\frac{58}{2357}, \frac{1254}{2357}, -\frac{403}{2357}, \frac{245}{2357})$ $+ \frac{6}{2357}\sqrt{189113}e^4 \otimes e_9$	{124568, 146, 23689, 3569}
952:80	$0, 0, 0, 0, \frac{40}{2307}\sqrt{123}e^{12}, \frac{40}{2307}\sqrt{187}e^{13}, \frac{40}{2307}\sqrt{646}e^{14},$ $\frac{40}{2307}\sqrt{26}e^{15}, \frac{40}{2307}\sqrt{407}e^{16} + \frac{40}{2307}\sqrt{291}e^{25}$	$(\frac{220}{2307}, -\frac{60}{769}, -\frac{580}{2307}, \frac{220}{769}, \frac{40}{2307}, -\frac{120}{769}, \frac{880}{2307}, \frac{260}{2307}, -\frac{140}{2307})$ $+ \frac{160}{2307}\sqrt{67}e^4 \otimes e_9 + \frac{40}{2307}\sqrt{1001}e^1 \otimes e_3$	{12789, 1579, 234578, 347}
952:80	$0, 0, 0, 0, \frac{40}{2307}\sqrt{123}e^{12}, \frac{40}{2307}\sqrt{187}e^{13}, \frac{40}{2307}\sqrt{646}e^{14},$ $\frac{40}{2307}\sqrt{26}e^{15}, \frac{40}{2307}\sqrt{407}e^{16} + \frac{40}{2307}\sqrt{291}e^{25}$	$(\frac{220}{2307}, -\frac{60}{769}, -\frac{580}{2307}, \frac{220}{769}, \frac{40}{2307}, -\frac{120}{769}, \frac{880}{2307}, \frac{260}{2307}, -\frac{140}{2307})$ $+ \frac{160}{2307}\sqrt{67}e^4 \otimes e_9 - \frac{40}{2307}\sqrt{1001}e^1 \otimes e_3$	{12789, 1579, 234578, 347}
952:81	$0, 0, 0, 0, \frac{4}{579}\sqrt{9338}e^{12}, \frac{2}{579}\sqrt{27202}e^{13}, \frac{116}{579}\sqrt{14}e^{24}, \frac{2}{579}\sqrt{26187}e^{15},$ $\frac{10}{579}\sqrt{2233}e^{16} + \frac{2}{579}\sqrt{13601}e^{25}$	$(-\frac{7}{579}, -\frac{26}{579}, -\frac{15}{193}, \frac{347}{579}, -\frac{11}{193}, -\frac{52}{579}, \frac{107}{193}, -\frac{40}{579}, -\frac{59}{579})$ $+ \frac{14}{579}\sqrt{2030}e^4 \otimes e_9$	{124568, 1467, 236789, 3569}
952:81	$0, 0, 0, 0, \frac{24}{2071}\sqrt{5587}e^{12}, \frac{8}{2071}\sqrt{15207}e^{13}, \frac{8}{2071}\sqrt{29045}e^{24},$ $\frac{40}{2071}\sqrt{111}e^{15}, \frac{72}{2071}\sqrt{370}e^{16} + \frac{24}{2071}\sqrt{4921}e^{25}$	$(-\frac{12}{2071}, \frac{300}{2071}, \frac{612}{2071}, -\frac{884}{2071}, \frac{288}{2071}, \frac{600}{2071}, -\frac{584}{2071}, \frac{276}{2071}, \frac{588}{2071})$ $+ \frac{8}{2071}\sqrt{69190}e^2 \otimes e_4$	{123689, 134569, 2568, 46}
952:81	$0, 0, 0, 0, \frac{220}{3281}\sqrt{13}e^{12}, \frac{154}{3281}\sqrt{26}e^{13}, \frac{44}{3281}\sqrt{393}e^{24},$ $\frac{22}{3281}\sqrt{731}e^{15}, \frac{22}{3281}\sqrt{1301}e^{16} + \frac{66}{3281}\sqrt{15}e^{25}$	$(-\frac{297}{3281}, \frac{110}{3281}, \frac{517}{3281}, \frac{165}{3281}, -\frac{11}{193}, \frac{220}{3281}, \frac{275}{3281}, -\frac{484}{3281}, -\frac{77}{3281})$ $+ \frac{22}{3281}\sqrt{1490}e^4 \otimes e_9 + \frac{44}{3281}\sqrt{386}e^3 \otimes e_7$	{139, 457}
952:81	$0, 0, 0, 0, \frac{16}{825}\sqrt{597}e^{12}, \frac{16}{825}\sqrt{609}e^{13}, \frac{16}{825}\sqrt{717}e^{24}, \frac{16}{275}\sqrt{13}e^{15},$ $\frac{32}{275}\sqrt{21}e^{16} + \frac{16}{275}\sqrt{11}e^{25}$	$(-\frac{8}{55}, \frac{8}{275}, \frac{56}{275}, \frac{104}{275}, -\frac{32}{275}, \frac{16}{275}, \frac{112}{275}, -\frac{72}{275}, -\frac{24}{275})$ $+ \frac{16}{825}\sqrt{1362}e^4 \otimes e_9 + \frac{16}{825}\sqrt{822}e^3 \otimes e_8$	{124568, 3569}
952:81	$0, 0, 0, 0, \frac{200}{1703}\sqrt{31}e^{12}, \frac{40}{1703}\sqrt{123}e^{13}, \frac{40}{1703}\sqrt{433}e^{24},$ $\frac{120}{1703}\sqrt{19}e^{15}, \frac{280}{1703}\sqrt{10}e^{16} + \frac{40}{1703}\sqrt{677}e^{25}$	$(-\frac{180}{1703}, \frac{20}{131}, \frac{700}{1703}, -\frac{540}{1703}, \frac{80}{1703}, \frac{40}{1703}, -\frac{280}{1703}, -\frac{100}{1703}, \frac{340}{1703})$ $+ \frac{40}{1703}\sqrt{1126}e^2 \otimes e_4 + \frac{80}{1703}\sqrt{106}e^3 \otimes e_8$	{134569, 2568}
952:81	$0, 0, 0, 0, \frac{90}{1367}\sqrt{30}e^{12}, \frac{18}{1367}\sqrt{674}e^{13}, \frac{18}{1367}\sqrt{1370}e^{24},$ $\frac{18}{1367}\sqrt{302}e^{15}, \frac{18}{1367}\sqrt{434}e^{16} + \frac{18}{1367}\sqrt{626}e^{25}$	$(-\frac{216}{1367}, \frac{117}{1367}, \frac{450}{1367}, \frac{9}{1367}, -\frac{99}{1367}, \frac{234}{1367}, \frac{126}{1367}, -\frac{315}{1367}, \frac{18}{1367})$ $+ \frac{18}{1367}\sqrt{1346}e^3 \otimes e_7 + \frac{36}{1367}\sqrt{290}e^4 \otimes e_8$	{123459, 1389}
952:81	$0, 0, 0, 0, \frac{2}{7}\sqrt{10}e^{12}, \frac{2}{21}\sqrt{30}e^{13}, \frac{2}{7}\sqrt{6}e^{24}, \frac{2}{21}\sqrt{6}e^{15},$ $\frac{2}{7}\sqrt{6}e^{16} + \frac{2}{21}\sqrt{78}e^{25}$	$(0, \frac{1}{7}, \frac{2}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7})$ $+ \frac{2}{21}\sqrt{6}e^3 \otimes e_7 + \frac{4}{21}\sqrt{30}e^2 \otimes e_4$	{2568, 46}
952:81	$0, 0, 0, 0, \frac{76}{777}\sqrt{17}e^{12}, \frac{4}{2331}\sqrt{204459}e^{13}, \frac{4}{2331}\sqrt{81073}e^{24},$ $\frac{4}{777}\sqrt{21641}e^{15}, \frac{20}{2331}\sqrt{646}e^{16} + \frac{4}{2331}\sqrt{52003}e^{25}$	$(-\frac{694}{2331}, \frac{502}{2331}, \frac{566}{777}, \frac{170}{2331}, -\frac{64}{777}, \frac{1004}{2331}, \frac{32}{111}, -\frac{886}{2331}, \frac{310}{2331})$ $+ \frac{4}{2331}\sqrt{616930}e^3 \otimes e_8$	{123459, 123579, 4578, 58}
952:81	$0, 0, 0, 0, \frac{8}{2239}\sqrt{10382}e^{12}, \frac{8}{2239}\sqrt{8990}e^{13}, \frac{8}{2239}\sqrt{57478}e^{24},$ $\frac{8}{2239}\sqrt{56434}e^{15}, \frac{16}{2239}\sqrt{435}e^{16} + \frac{8}{2239}\sqrt{32190}e^{25}$	$(-\frac{340}{2239}, \frac{72}{2239}, \frac{484}{2239}, \frac{1248}{2239}, -\frac{268}{2239}, \frac{144}{2239}, \frac{1320}{2239}, -\frac{608}{2239}, -\frac{196}{2239})$ $+ \frac{16}{2239}\sqrt{27695}e^4 \otimes e_8$	{12459, 189, 234, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:81	$0, 0, 0, 0, \frac{6}{137}\sqrt{7}e^{12}, \frac{6}{137}\sqrt{37}e^{13}, \frac{12}{137}\sqrt{11}e^{24}, \frac{6}{137}\sqrt{33}e^{15},$ $\frac{6}{137}\sqrt{33}e^{16} + \frac{24}{137}\sqrt{2}e^{25}$	$(-\frac{3}{137}, \frac{9}{137}, \frac{21}{137}, -\frac{30}{137}, \frac{6}{137}, \frac{18}{137}, -\frac{21}{137}, \frac{3}{137}, \frac{15}{137})$ $+ \frac{12}{137}\sqrt{11}e^3 \otimes e_8 + \frac{6}{137}\sqrt{79}e^1 \otimes e_7$	{123459, 4578}
952:81	$0, 0, 0, 0, \frac{8}{151}\sqrt{7}e^{12}, \frac{72}{151}e^{13}, \frac{16}{151}\sqrt{33}e^{24}, \frac{8}{151}\sqrt{66}e^{15},$ $\frac{8}{151}\sqrt{110}e^{16} + \frac{16}{151}\sqrt{87}e^{25}$	$(\frac{26}{151}, \frac{9}{302}, -\frac{17}{151}, -\frac{85}{302}, \frac{61}{302}, \frac{9}{151}, -\frac{38}{151}, \frac{113}{302}, \frac{35}{151})$ $+ \frac{8}{151}\sqrt{255}e^1 \otimes e_7$	{123459, 1389, 27, 4578}
952:81	$0, 0, 0, 0, \frac{1}{835}\sqrt{194}e^{12}, \frac{1}{835}\sqrt{382}e^{13}, \frac{2}{835}\sqrt{379}e^{24}, \frac{2}{835}\sqrt{271}e^{15},$ $\frac{12}{835}\sqrt{5}e^{16} + \frac{13}{835}\sqrt{6}e^{25}$	$(\frac{11}{835}, -\frac{3}{334}, -\frac{26}{835}, \frac{33}{1670}, \frac{7}{1670}, -\frac{3}{167}, \frac{9}{835}, \frac{29}{1670}, -\frac{4}{835})$ $+ \frac{1}{835}\sqrt{1758}e^1 \otimes e_7 + \frac{2}{835}\sqrt{326}e^4 \otimes e_8$	{123459, 1389}
952:81	$0, 0, 0, 0, \frac{15}{127}\sqrt{10}e^{12}, \frac{5}{127}\sqrt{66}e^{13}, \frac{50}{127}e^{24}, \frac{10}{127}\sqrt{21}e^{15},$ $\frac{30}{127}\sqrt{2}e^{16} + \frac{15}{127}\sqrt{2}e^{25}$	$(\frac{15}{127}, \frac{15}{254}, 0, -\frac{85}{254}, \frac{45}{254}, \frac{15}{127}, -\frac{35}{127}, \frac{75}{254}, \frac{30}{127})$ $+ \frac{10}{127}\sqrt{34}e^2 \otimes e_4 + \frac{15}{127}\sqrt{34}e^1 \otimes e_7$	{2356789, 34679}
952:81	$0, 0, 0, 0, \frac{18}{2885}\sqrt{482}e^{12}, \frac{198}{2885}\sqrt{6}e^{13}, \frac{18}{2885}\sqrt{1246}e^{24},$ $\frac{18}{2885}\sqrt{57}e^{15}, \frac{18}{2885}\sqrt{1227}e^{16} + \frac{18}{2885}\sqrt{371}e^{25}$	$(\frac{45}{577}, -\frac{108}{2885}, -\frac{441}{2885}, \frac{171}{2885}, \frac{117}{2885}, -\frac{216}{2885}, \frac{63}{2885}, \frac{342}{2885}, \frac{9}{2885})$ $+ \frac{36}{2885}\sqrt{283}e^4 \otimes e_9 + \frac{36}{2885}\sqrt{367}e^1 \otimes e_7$	{1389, 4578}
952:81	$0, 0, 0, 0, \frac{6}{113}\sqrt{190}e^{12}, \frac{2}{113}\sqrt{2242}e^{13}, \frac{2}{113}\sqrt{2242}e^{24}, \frac{38}{113}\sqrt{2}e^{15},$ $\frac{2}{113}\sqrt{1254}e^{16} + \frac{38}{113}\sqrt{2}e^{25}$	$(-\frac{12}{113}, \frac{21}{113}, \frac{54}{113}, -\frac{43}{113}, \frac{9}{113}, \frac{42}{113}, \frac{22}{113}, -\frac{3}{113}, \frac{30}{113})$ $+ \frac{2}{113}\sqrt{3686}e^3 \otimes e_7$	{1234589, 139, 278, 457}
952:82	$0, 0, 0, 0, -\frac{4}{801}\sqrt{9695}e^{12}, \frac{2}{267}\sqrt{8310}e^{13}, \frac{2}{267}\sqrt{8310}e^{14}, \frac{2}{801}\sqrt{38503}e^{15},$ $\frac{2}{801}\sqrt{831}e^{25} + \frac{4}{801}\sqrt{18559}e^{36}$	$(-\frac{47}{267}, \frac{263}{801}, \frac{263}{801}, -\frac{50}{267}, \frac{122}{801}, \frac{122}{801}, -\frac{97}{267}, -\frac{19}{801}, \frac{385}{801})$ $+ \frac{2}{801}\sqrt{188637}e^3 \otimes e_7$	{1234589, 1256789, 1349, 1679, 2368, 2478, 356, 457, 1234589, 1256789, 1349, 1679, 2368, 2478, 356, 457}
952:82	$0, 0, 0, 0, \frac{4}{801}\sqrt{9695}e^{12}, \frac{2}{267}\sqrt{8310}e^{13}, \frac{2}{267}\sqrt{8310}e^{14}, \frac{2}{801}\sqrt{38503}e^{15},$ $\frac{2}{801}\sqrt{831}e^{25} + \frac{4}{801}\sqrt{18559}e^{36}$	$(-\frac{47}{267}, \frac{263}{801}, \frac{263}{801}, -\frac{50}{267}, \frac{122}{801}, \frac{122}{801}, -\frac{97}{267}, -\frac{19}{801}, \frac{385}{801})$ $+ \frac{2}{801}\sqrt{188637}e^3 \otimes e_7$	{1234589, 1256789, 1349, 1679, 2368, 2478, 356, 457, 1234589, 1256789, 1349, 1679, 2368, 2478, 356, 457}
952:82	$0, 0, 0, 0, -\frac{27}{1901}\sqrt{566}e^{12}, \frac{243}{1901}\sqrt{6}e^{13}, \frac{54}{1901}\sqrt{305}e^{14},$ $\frac{27}{1901}\sqrt{62}e^{15}, \frac{54}{1901}\sqrt{210}e^{25} + \frac{135}{1901}\sqrt{6}e^{36}$	$(-\frac{486}{1901}, \frac{513}{1901}, \frac{513}{1901}, \frac{270}{1901}, \frac{27}{1901}, \frac{27}{1901}, -\frac{216}{1901}, -\frac{459}{1901}, \frac{540}{1901})$ $+ \frac{27}{1901}\sqrt{1370}e^4 \otimes e_8 + \frac{27}{1901}\sqrt{2042}e^2 \otimes e_7$	{2358, 2568, 347, 467, 2358, 2568, 347, 467}
952:82	$0, 0, 0, 0, \frac{27}{1901}\sqrt{566}e^{12}, \frac{243}{1901}\sqrt{6}e^{13}, \frac{54}{1901}\sqrt{305}e^{14}, \frac{27}{1901}\sqrt{62}e^{15},$ $\frac{54}{1901}\sqrt{210}e^{25} + \frac{135}{1901}\sqrt{6}e^{36}$	$(-\frac{486}{1901}, \frac{513}{1901}, \frac{513}{1901}, \frac{270}{1901}, \frac{27}{1901}, \frac{27}{1901}, -\frac{216}{1901}, -\frac{459}{1901}, \frac{540}{1901})$ $+ \frac{27}{1901}\sqrt{1370}e^4 \otimes e_8 + \frac{27}{1901}\sqrt{2042}e^2 \otimes e_7$	{2358, 2568, 347, 467, 2358, 2568, 347, 467}
952:82	$0, 0, 0, 0, -\frac{27}{1901}\sqrt{455}e^{12}, \frac{27}{1901}\sqrt{535}e^{13}, \frac{54}{1901}\sqrt{305}e^{14},$ $\frac{27}{1901}\sqrt{62}e^{15}, \frac{27}{1901}\sqrt{181}e^{25} + \frac{27}{1901}\sqrt{871}e^{36}$	$(-\frac{486}{1901}, \frac{513}{1901}, \frac{513}{1901}, \frac{270}{1901}, \frac{27}{1901}, \frac{27}{1901}, -\frac{216}{1901}, -\frac{459}{1901}, \frac{540}{1901})$ $+ \frac{27}{1901}\sqrt{1370}e^4 \otimes e_8 + \frac{27}{1901}\sqrt{2042}e^3 \otimes e_7$	{123459, 16789, 247, 3568, 123459, 16789, 247, 3568}
952:82	$0, 0, 0, 0, \frac{27}{1901}\sqrt{455}e^{12}, \frac{27}{1901}\sqrt{535}e^{13}, \frac{54}{1901}\sqrt{305}e^{14},$ $\frac{27}{1901}\sqrt{62}e^{15}, \frac{27}{1901}\sqrt{181}e^{25} + \frac{27}{1901}\sqrt{871}e^{36}$	$(-\frac{486}{1901}, \frac{513}{1901}, \frac{513}{1901}, \frac{270}{1901}, \frac{27}{1901}, \frac{27}{1901}, -\frac{216}{1901}, -\frac{459}{1901}, \frac{540}{1901})$ $+ \frac{27}{1901}\sqrt{1370}e^4 \otimes e_8 + \frac{27}{1901}\sqrt{2042}e^3 \otimes e_7$	{123459, 16789, 247, 3568, 123459, 16789, 247, 3568}
952:82	$0, 0, 0, 0, -\frac{1}{797}\sqrt{19642}e^{12}, \frac{1}{797}\sqrt{195566}e^{13}, \frac{12}{797}\sqrt{2562}e^{14},$ $\frac{84}{797}\sqrt{61}e^{15}, \frac{11}{797}\sqrt{854}e^{25} + \frac{1}{797}\sqrt{111874}e^{36}$	$(-\frac{229}{797}, \frac{185}{797}, \frac{185}{797}, \frac{581}{797}, -\frac{44}{797}, -\frac{44}{797}, \frac{352}{797}, -\frac{273}{797}, \frac{141}{797})$ $+ \frac{2}{797}\sqrt{282247}e^4 \otimes e_8$	{123678, 1278, 13456, 145, 23589, 25689, 3479, 4679, 123678, 1278, 13456, 145, 23589, 25689, 3479, 4679}
952:82	$0, 0, 0, 0, \frac{1}{797}\sqrt{19642}e^{12}, \frac{1}{797}\sqrt{195566}e^{13}, \frac{12}{797}\sqrt{2562}e^{14},$ $\frac{84}{797}\sqrt{61}e^{15}, \frac{11}{797}\sqrt{854}e^{25} + \frac{1}{797}\sqrt{111874}e^{36}$	$(-\frac{229}{797}, \frac{185}{797}, \frac{185}{797}, \frac{581}{797}, -\frac{44}{797}, -\frac{44}{797}, \frac{352}{797}, -\frac{273}{797}, \frac{141}{797})$ $+ \frac{2}{797}\sqrt{282247}e^4 \otimes e_8$	{123678, 1278, 13456, 145, 23589, 25689, 3479, 4679, 123678, 1278, 13456, 145, 23589, 25689, 3479, 4679}
952:82	$0, 0, 0, 0, -\frac{9}{301}\sqrt{154}e^{12}, \frac{9}{301}\sqrt{110}e^{13}, \frac{18}{301}\sqrt{22}e^{14}, \frac{18}{301}\sqrt{33}e^{15},$ $\frac{9}{301}\sqrt{110}e^{25} + \frac{27}{301}\sqrt{22}e^{36}$	$(-\frac{81}{301}, \frac{99}{301}, \frac{99}{301}, \frac{18}{301}, \frac{18}{301}, \frac{18}{301}, -\frac{9}{43}, -\frac{9}{43}, \frac{117}{301})$ $+ \frac{36}{301}\sqrt{34}e^3 \otimes e_8 + \frac{90}{301}\sqrt{5}e^2 \otimes e_7$	{124689, 13579, 258, 3467, 124689, 13579, 258, 3467}
952:82	$0, 0, 0, 0, \frac{9}{301}\sqrt{154}e^{12}, \frac{9}{301}\sqrt{110}e^{13}, \frac{18}{301}\sqrt{22}e^{14}, \frac{18}{301}\sqrt{33}e^{15},$ $\frac{9}{301}\sqrt{110}e^{25} + \frac{27}{301}\sqrt{22}e^{36}$	$(-\frac{81}{301}, \frac{99}{301}, \frac{99}{301}, \frac{18}{301}, \frac{18}{301}, \frac{18}{301}, -\frac{9}{43}, -\frac{9}{43}, \frac{117}{301})$ $+ \frac{36}{301}\sqrt{34}e^3 \otimes e_8 + \frac{90}{301}\sqrt{5}e^2 \otimes e_7$	{124689, 13579, 258, 3467, 124689, 13579, 258, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:82	$0, 0, 0, 0, -\frac{1}{801}\sqrt{222154}e^{12}, \frac{1}{801}\sqrt{78114}e^{13}, \frac{2}{267}\sqrt{8310}e^{14},$ $\frac{2}{801}\sqrt{38503}e^{15}, \frac{5}{267}\sqrt{1662}e^{25} + \frac{1}{801}\sqrt{80330}e^{36}$	$(-\frac{47}{267}, \frac{263}{801}, \frac{263}{801}, -\frac{50}{267}, \frac{122}{801}, \frac{122}{801}, -\frac{97}{267}, -\frac{19}{801}, \frac{385}{801})$ $+\frac{2}{801}\sqrt{188637}e^2 \otimes e_7$	{123469, 1249, 1356789, 15789, 235, 256, 3478, 4678, 123469, 1249, 1356789, 15789, 235, 256, 3478, 4678}
952:82	$0, 0, 0, 0, \frac{1}{801}\sqrt{222154}e^{12}, \frac{1}{801}\sqrt{78114}e^{13}, \frac{2}{267}\sqrt{8310}e^{14},$ $\frac{2}{801}\sqrt{38503}e^{15}, \frac{5}{267}\sqrt{1662}e^{25} + \frac{1}{801}\sqrt{80330}e^{36}$	$(-\frac{47}{267}, \frac{263}{801}, \frac{263}{801}, -\frac{50}{267}, \frac{122}{801}, \frac{122}{801}, -\frac{97}{267}, -\frac{19}{801}, \frac{385}{801})$ $+\frac{2}{801}\sqrt{188637}e^2 \otimes e_7$	{123469, 1249, 1356789, 15789, 235, 256, 3478, 4678, 123469, 1249, 1356789, 15789, 235, 256, 3478, 4678}
952:84	$0, 0, 0, 0, \frac{40}{5097}\sqrt{73}e^{12}, \frac{20}{5097}\sqrt{190}e^{13}, \frac{20}{5097}\sqrt{2147}e^{14},$ $\frac{20}{5097}\sqrt{2181}e^{25}, \frac{20}{5097}\sqrt{1446}e^{15} + \frac{20}{5097}\sqrt{623}e^{36}$	$(-\frac{380}{5097}, \frac{120}{1699}, -\frac{10}{5097}, \frac{180}{1699}, -\frac{20}{5097}, -\frac{130}{1699}, \frac{160}{5097}, \frac{340}{5097}, -\frac{400}{5097})$ $+\frac{20}{5097}\sqrt{2410}e^2 \otimes e_7 + \frac{40}{5097}\sqrt{566}e^4 \otimes e_8$	{3479, 4679}
952:84	$0, 0, 0, 0, \frac{2}{625}\sqrt{70}e^{12}, \frac{2}{625}\sqrt{965}e^{13}, \frac{2}{625}\sqrt{565}e^{14}, \frac{2}{625}\sqrt{1465}e^{25},$ $\frac{2}{625}\sqrt{1270}e^{15} + \frac{2}{625}\sqrt{1130}e^{36}$	$(\frac{1}{25}, -\frac{3}{125}, \frac{1}{125}, -\frac{2}{25}, \frac{2}{125}, \frac{6}{125}, -\frac{1}{25}, -\frac{1}{125}, \frac{7}{125})$ $+\frac{2}{625}\sqrt{1005}e^2 \otimes e_7 + \frac{38}{625}\sqrt{5}e^3 \otimes e_8$	{123459, 4578}
952:84	$0, 0, 0, 0, \frac{8}{3107}\sqrt{4002}e^{12}, \frac{16}{3107}\sqrt{6699}e^{13}, \frac{8}{3107}\sqrt{85173}e^{14},$ $\frac{24}{3107}\sqrt{29}e^{25}, \frac{16}{3107}\sqrt{11397}e^{15} + \frac{24}{3107}\sqrt{8323}e^{36}$	$(-\frac{616}{3107}, \frac{576}{3107}, -\frac{20}{3107}, \frac{2128}{3107}, -\frac{40}{3107}, -\frac{636}{3107}, \frac{1512}{3107}, \frac{536}{3107}, -\frac{656}{3107})$ $+\frac{24}{3107}\sqrt{24882}e^4 \otimes e_9$	{123456, 1245, 3589, 5689}
952:84	$0, 0, 0, 0, \frac{8}{1033}\sqrt{1189}e^{12}, \frac{4}{1033}\sqrt{15602}e^{13}, \frac{4}{1033}\sqrt{2581}e^{14},$ $\frac{12}{1033}\sqrt{1653}e^{25}, \frac{4}{1033}\sqrt{14674}e^{15} + \frac{12}{1033}\sqrt{1653}e^{36}$	$(\frac{178}{1033}, -\frac{214}{1033}, \frac{18}{1033}, \frac{46}{1033}, \frac{36}{1033}, \frac{160}{1033}, \frac{224}{1033}, -\frac{250}{1033}, \frac{142}{1033})$ $+\frac{4}{1033}\sqrt{26042}e^3 \otimes e_8$	{123459, 123579, 4578, 58}
952:84	$0, 0, 0, 0, \frac{28}{767}\sqrt{138}e^{12}, \frac{28}{767}\sqrt{246}e^{13}, \frac{28}{767}\sqrt{246}e^{14}, \frac{14}{767}\sqrt{465}e^{25},$ $\frac{266}{767}\sqrt{3}e^{15} + \frac{28}{767}\sqrt{282}e^{36}$	$(-\frac{7}{767}, \frac{133}{767}, \frac{63}{767}, -\frac{224}{767}, \frac{126}{767}, \frac{56}{767}, -\frac{231}{767}, \frac{259}{767}, \frac{119}{767})$ $+\frac{42}{767}\sqrt{221}e^3 \otimes e_7$	{123459, 125679, 3568, 4578}
952:84	$0, 0, 0, 0, \frac{3}{71}\sqrt{2}e^{12}, \frac{2}{71}\sqrt{19}e^{13}, \frac{1}{71}\sqrt{2}e^{14}, \frac{1}{71}\sqrt{114}e^{25},$ $\frac{1}{71}\sqrt{58}e^{15} + \frac{1}{71}\sqrt{114}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+\frac{2}{71}\sqrt{39}e^3 \otimes e_8 + \frac{7}{71}\sqrt{2}e^2 \otimes e_9$	{1456789, 15689, 23456, 23567}
952:84	$0, 0, 0, 0, \frac{3}{71}\sqrt{2}e^{12}, \frac{2}{71}\sqrt{19}e^{13}, \frac{1}{71}\sqrt{2}e^{14}, \frac{1}{71}\sqrt{114}e^{25},$ $\frac{1}{71}\sqrt{58}e^{15} + \frac{1}{71}\sqrt{114}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+\frac{2}{71}\sqrt{39}e^3 \otimes e_8 - \frac{7}{71}\sqrt{2}e^2 \otimes e_9$	{1456789, 15689, 23456, 23567}
952:84	$0, 0, 0, 0, \frac{56}{2441}\sqrt{82}e^{12}, \frac{28}{2441}\sqrt{926}e^{13}, \frac{28}{2441}\sqrt{337}e^{14},$ $\frac{28}{2441}\sqrt{929}e^{25}, \frac{28}{2441}\sqrt{838}e^{15} + \frac{28}{2441}\sqrt{1093}e^{36}$	$(\frac{182}{2441}, -\frac{322}{2441}, -\frac{70}{2441}, \frac{434}{2441}, -\frac{140}{2441}, \frac{112}{2441}, \frac{616}{2441}, -\frac{462}{2441}, \frac{42}{2441})$ $+\frac{28}{2441}\sqrt{1670}e^3 \otimes e_8 + \frac{56}{2441}\sqrt{123}e^4 \otimes e_9$	{123579, 4578}
952:84	$0, 0, 0, 0, \frac{8}{3179}\sqrt{50997}e^{12}, \frac{4}{3179}\sqrt{58206}e^{13}, \frac{4}{3179}\sqrt{295035}e^{14},$ $\frac{12}{3179}\sqrt{38181}e^{25}, \frac{4}{3179}\sqrt{182094}e^{15} + \frac{36}{3179}\sqrt{1335}e^{36}$	$(-\frac{436}{3179}, \frac{1128}{3179}, \frac{346}{3179}, -\frac{52}{3179}, \frac{692}{3179}, -\frac{90}{3179}, -\frac{1008}{3179}, \frac{1820}{3179}, \frac{256}{3179})$ $+\frac{252}{3179}\sqrt{178}e^2 \otimes e_7$	{123468, 1248, 3479, 4679}
952:84	$0, 0, 0, 0, \frac{8}{977}\sqrt{8418}e^{12}, \frac{40}{977}\sqrt{138}e^{13}, \frac{8}{977}\sqrt{6233}e^{14}, \frac{24}{977}\sqrt{253}e^{25},$ $\frac{96}{977}\sqrt{69}e^{15} + \frac{24}{977}\sqrt{253}e^{36}$	$(\frac{300}{977}, -\frac{132}{977}, \frac{84}{977}, -\frac{436}{977}, \frac{168}{977}, \frac{384}{977}, -\frac{136}{977}, \frac{36}{977}, \frac{468}{977})$ $+\frac{8}{977}\sqrt{19366}e^1 \otimes e_4$	{135, 156, 2345689, 24589}
952:84	$0, 0, 0, 0, \frac{160}{3083}\sqrt{66}e^{12}, \frac{40}{3083}\sqrt{390}e^{13}, \frac{40}{3083}\sqrt{4269}e^{14},$ $\frac{40}{3083}\sqrt{4047}e^{25}, \frac{80}{3083}\sqrt{723}e^{15} + \frac{40}{3083}\sqrt{1461}e^{36}$	$(\frac{260}{3083}, -\frac{500}{3083}, -\frac{120}{3083}, \frac{1660}{3083}, -\frac{240}{3083}, \frac{140}{3083}, \frac{1920}{3083}, -\frac{740}{3083}, \frac{20}{3083})$ $+\frac{120}{3083}\sqrt{862}e^4 \otimes e_8$	{123459, 124569, 3568, 58}
952:84	$0, 0, 0, 0, \frac{56}{789}\sqrt{3}e^{12}, \frac{224}{789}e^{13}, \frac{224}{789}e^{14}, \frac{14}{789}\sqrt{185}e^{25},$ $\frac{14}{789}\sqrt{187}e^{15} + \frac{28}{789}\sqrt{58}e^{36}$	$(\frac{91}{789}, -\frac{49}{789}, \frac{7}{263}, -\frac{56}{263}, \frac{14}{263}, \frac{112}{789}, -\frac{77}{789}, -\frac{7}{789}, \frac{133}{789})$ $+\frac{14}{789}\sqrt{421}e^3 \otimes e_7 - \frac{28}{789}\sqrt{70}e^1 \otimes e_8$	{123459, 125679, 3568, 4578}
952:84	$0, 0, 0, 0, \frac{56}{789}\sqrt{3}e^{12}, \frac{224}{789}e^{13}, \frac{224}{789}e^{14}, \frac{14}{789}\sqrt{185}e^{25},$ $\frac{14}{789}\sqrt{187}e^{15} + \frac{28}{789}\sqrt{58}e^{36}$	$(\frac{91}{789}, -\frac{49}{789}, \frac{7}{263}, -\frac{56}{263}, \frac{14}{263}, \frac{112}{789}, -\frac{77}{789}, -\frac{7}{789}, \frac{133}{789})$ $+\frac{14}{789}\sqrt{421}e^3 \otimes e_7 + \frac{28}{789}\sqrt{70}e^1 \otimes e_8$	{123459, 125679, 3568, 4578}
952:84	$0, 0, 0, 0, \frac{24}{449}\sqrt{14}e^{12}, \frac{8}{449}\sqrt{642}e^{13}, \frac{8}{449}\sqrt{51}e^{14}, \frac{72}{449}\sqrt{7}e^{25},$ $\frac{48}{449}\sqrt{14}e^{15} + \frac{72}{449}\sqrt{7}e^{36}$	$(\frac{84}{449}, -\frac{92}{449}, -\frac{4}{449}, -\frac{12}{449}, -\frac{8}{449}, \frac{80}{449}, \frac{72}{449}, -\frac{100}{449}, \frac{76}{449})$ $+\frac{16}{449}\sqrt{258}e^3 \otimes e_8 + \frac{40}{449}\sqrt{6}e^1 \otimes e_4$	{123579, 4578}
952:84	$0, 0, 0, 0, \frac{16}{1257}\sqrt{462}e^{12}, \frac{128}{1257}\sqrt{6}e^{13}, \frac{16}{419}\sqrt{143}e^{14}, \frac{16}{419}\sqrt{91}e^{25},$ $\frac{32}{1257}\sqrt{42}e^{15} + \frac{16}{419}\sqrt{77}e^{36}$	$(-\frac{256}{1257}, \frac{112}{419}, \frac{40}{1257}, \frac{208}{1257}, \frac{80}{1257}, -\frac{72}{419}, -\frac{16}{419}, \frac{416}{1257}, -\frac{176}{1257})$ $+\frac{16}{1257}\sqrt{1482}e^4 \otimes e_9 + \frac{32}{1257}\sqrt{465}e^2 \otimes e_7$	{123468, 1248}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:84	$0, 0, 0, 0, \frac{140}{1063}\sqrt{6}e^{12}, \frac{56}{1063}\sqrt{102}e^{13}, \frac{28}{1063}\sqrt{331}e^{14},$ $\frac{28}{1063}\sqrt{159}e^{25}, \frac{84}{1063}\sqrt{38}e^{15} + \frac{28}{1063}\sqrt{417}e^{36}$	$(\frac{42}{1063}, \frac{126}{1063}, \frac{84}{1063}, -\frac{350}{1063}, \frac{168}{1063}, \frac{126}{1063}, -\frac{308}{1063}, \frac{294}{1063}, \frac{210}{1063})$ $+ \frac{28}{1063}\sqrt{154}e^1 \otimes e_4 + \frac{84}{1063}\sqrt{86}e^3 \otimes e_7$	{125679, 4578}
952:84	$0, 0, 0, 0, \frac{28}{3783}\sqrt{670}e^{12}, \frac{28}{3783}\sqrt{862}e^{13}, \frac{28}{3783}\sqrt{1499}e^{14},$ $\frac{28}{3783}\sqrt{419}e^{25}, \frac{28}{3783}\sqrt{906}e^{15} + \frac{28}{3783}\sqrt{1563}e^{36}$	$(-\frac{434}{3783}, \frac{602}{3783}, \frac{28}{1261}, \frac{42}{1261}, \frac{56}{1261}, -\frac{350}{3783}, -\frac{308}{3783}, \frac{770}{3783}, -\frac{266}{3783})$ $+ \frac{196}{3783}\sqrt{26}e^4 \otimes e_9 + \frac{28}{3783}\sqrt{2158}e^3 \otimes e_7$	{125679, 4578}
952:84	$0, 0, 0, 0, \frac{88}{2377}\sqrt{183}e^{12}, \frac{44}{2377}\sqrt{66}e^{13}, \frac{44}{2377}\sqrt{115}e^{14},$ $\frac{44}{2377}\sqrt{381}e^{25}, \frac{132}{2377}\sqrt{26}e^{15} + \frac{44}{2377}\sqrt{15}e^{36}$	$(\frac{132}{2377}, \frac{264}{2377}, \frac{198}{2377}, -\frac{836}{2377}, \frac{396}{2377}, \frac{330}{2377}, -\frac{704}{2377}, \frac{660}{2377}, \frac{528}{2377})$ $+ \frac{132}{2377}\sqrt{122}e^2 \otimes e_7 + \frac{440}{2377}\sqrt{10}e^1 \otimes e_4$	{3467, 47}
952:84	$0, 0, 0, 0, \frac{28}{389}\sqrt{3}e^{12}, \frac{28}{389}\sqrt{19}e^{13}, \frac{28}{389}\sqrt{19}e^{14}, \frac{14}{389}\sqrt{85}e^{25},$ $\frac{14}{389}\sqrt{67}e^{15} + \frac{28}{389}\sqrt{38}e^{36}$	$(-\frac{49}{389}, \frac{91}{389}, \frac{21}{389}, -\frac{28}{389}, \frac{42}{389}, -\frac{28}{389}, -\frac{77}{389}, \frac{133}{389}, -\frac{7}{389})$ $+ \frac{14}{389}\sqrt{201}e^3 \otimes e_7 + \frac{28}{389}\sqrt{35}e^2 \otimes e_9$	{134589, 156789, 2356, 2457}
952:84	$0, 0, 0, 0, \frac{28}{389}\sqrt{3}e^{12}, \frac{28}{389}\sqrt{19}e^{13}, \frac{28}{389}\sqrt{19}e^{14}, \frac{14}{389}\sqrt{85}e^{25},$ $\frac{14}{389}\sqrt{67}e^{15} + \frac{28}{389}\sqrt{38}e^{36}$	$(-\frac{49}{389}, \frac{91}{389}, \frac{21}{389}, -\frac{28}{389}, \frac{42}{389}, -\frac{28}{389}, -\frac{77}{389}, \frac{133}{389}, -\frac{7}{389})$ $+ \frac{14}{389}\sqrt{201}e^3 \otimes e_7 - \frac{28}{389}\sqrt{35}e^2 \otimes e_9$	{134589, 156789, 2356, 2457}
952:86	$0, 0, 0, 0, -\frac{25}{92}\sqrt{2}e^{12}, \frac{5}{92}\sqrt{42}e^{13}, \frac{5}{46}\sqrt{2}e^{24}, \frac{5}{46}\sqrt{14}e^{15},$ $\frac{5}{92}\sqrt{22}e^{25} + \frac{5}{92}\sqrt{70}e^{36}$	$(-\frac{25}{92}, \frac{15}{46}, \frac{15}{46}, -\frac{5}{23}, \frac{5}{92}, \frac{5}{92}, \frac{5}{46}, -\frac{5}{23}, \frac{35}{92})$ $+ \frac{5}{46}\sqrt{34}e^2 \otimes e_4 + \frac{5}{46}\sqrt{46}e^3 \otimes e_8$	{12689, 13459, 258, 346, 12689, 13459, 258, 346}
952:86	$0, 0, 0, 0, \frac{25}{92}\sqrt{2}e^{12}, \frac{5}{92}\sqrt{42}e^{13}, \frac{5}{46}\sqrt{2}e^{24}, \frac{5}{46}\sqrt{14}e^{15},$ $\frac{5}{92}\sqrt{22}e^{25} + \frac{5}{92}\sqrt{70}e^{36}$	$(-\frac{25}{92}, \frac{15}{46}, \frac{15}{46}, -\frac{5}{23}, \frac{5}{92}, \frac{5}{92}, \frac{5}{46}, -\frac{5}{23}, \frac{35}{92})$ $+ \frac{5}{46}\sqrt{34}e^2 \otimes e_4 + \frac{5}{46}\sqrt{46}e^3 \otimes e_8$	{12689, 13459, 258, 346, 12689, 13459, 258, 346}
952:86	$0, 0, 0, 0, -\frac{4}{1157}\sqrt{255}e^{12}, \frac{4}{1157}\sqrt{347}e^{13}, \frac{4}{1157}\sqrt{515}e^{24}, \frac{4}{1157}\sqrt{39}e^{15},$ $\frac{4}{1157}\sqrt{133}e^{25} + \frac{4}{1157}\sqrt{430}e^{36}$	$(\frac{44}{1157}, -\frac{30}{1157}, -\frac{30}{1157}, -\frac{8}{1157}, \frac{14}{1157}, \frac{14}{1157}, -\frac{38}{1157}, \frac{58}{1157}, -\frac{16}{1157})$ $+ \frac{20}{1157}\sqrt{26}e^3 \otimes e_7 + \frac{4}{1157}\sqrt{410}e^4 \otimes e_9$	{1256789, 139, 23468, 457, 1256789, 139, 23468, 457}
952:86	$0, 0, 0, 0, \frac{4}{1157}\sqrt{255}e^{12}, \frac{4}{1157}\sqrt{347}e^{13}, \frac{4}{1157}\sqrt{515}e^{24}, \frac{4}{1157}\sqrt{39}e^{15},$ $\frac{4}{1157}\sqrt{133}e^{25} + \frac{4}{1157}\sqrt{430}e^{36}$	$(\frac{44}{1157}, -\frac{30}{1157}, -\frac{30}{1157}, -\frac{8}{1157}, \frac{14}{1157}, \frac{14}{1157}, -\frac{38}{1157}, \frac{58}{1157}, -\frac{16}{1157})$ $+ \frac{20}{1157}\sqrt{26}e^3 \otimes e_7 + \frac{4}{1157}\sqrt{410}e^4 \otimes e_9$	{1256789, 139, 23468, 457, 1256789, 139, 23468, 457}
952:86	$0, 0, 0, 0, -\frac{1}{3}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{2}e^{24}, \frac{2}{3}e^{15},$ $\frac{1}{3}\sqrt{3}e^{25} + \frac{1}{3}\sqrt{5}e^{36}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{10}e^3 \otimes e_8$	{123459, 123579, 146789, 1689, 2346, 2367, 4578, 58, 123459, 123579, 146789, 1689, 2346, 2367, 4578, 58}
952:86	$0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{2}e^{24}, \frac{2}{3}e^{15},$ $\frac{1}{3}\sqrt{3}e^{25} + \frac{1}{3}\sqrt{5}e^{36}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{10}e^3 \otimes e_8$	{123459, 123579, 146789, 1689, 2346, 2367, 4578, 58, 123459, 123579, 146789, 1689, 2346, 2367, 4578, 58}
952:86	$0, 0, 0, 0, -\frac{1}{184}\sqrt{24090}e^{12}, \frac{3}{184}\sqrt{438}e^{13}, \frac{5}{92}\sqrt{146}e^{24}, \frac{3}{92}\sqrt{146}e^{15},$ $\frac{1}{184}\sqrt{26718}e^{25} + \frac{3}{184}\sqrt{730}e^{36}$	$(-\frac{27}{184}, \frac{15}{46}, \frac{15}{46}, -\frac{43}{92}, \frac{33}{184}, \frac{33}{184}, -\frac{13}{92}, \frac{3}{92}, \frac{93}{184})$ $+ \frac{1}{23}\sqrt{730}e^2 \otimes e_4$	{12369, 129, 1345689, 14589, 235, 256, 348, 468, 12369, 129, 1345689, 14589, 235, 256, 348, 468}
952:86	$0, 0, 0, 0, \frac{1}{184}\sqrt{24090}e^{12}, \frac{3}{184}\sqrt{438}e^{13}, \frac{5}{92}\sqrt{146}e^{24}, \frac{3}{92}\sqrt{146}e^{15},$ $\frac{1}{184}\sqrt{26718}e^{25} + \frac{3}{184}\sqrt{730}e^{36}$	$(-\frac{27}{184}, \frac{15}{46}, \frac{15}{46}, -\frac{43}{92}, \frac{33}{184}, \frac{33}{184}, -\frac{13}{92}, \frac{3}{92}, \frac{93}{184})$ $+ \frac{1}{23}\sqrt{730}e^2 \otimes e_4$	{12369, 129, 1345689, 14589, 235, 256, 348, 468, 12369, 129, 1345689, 14589, 235, 256, 348, 468}
952:86	$0, 0, 0, 0, -\frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{46}e^{24}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{14}e^{25} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{34}e^2 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578, 123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}
952:86	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{46}e^{24}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{14}e^{25} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{34}e^2 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578, 123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}
952:86	$0, 0, 0, 0, -\frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{46}e^{24}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{14}e^{25} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{34}e^2 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578, 123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:86	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{46}e^{24}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{14}e^{25} + \frac{8}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{4}{29}\sqrt{34}e^2 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 1389, 146789, 2346, 27, 3568, 4578, 123459, 125679, 1389, 146789, 2346, 27, 3568, 4578}
952:86	$0, 0, 0, 0, -\frac{5}{932}\sqrt{802}e^{12}, \frac{5}{932}\sqrt{830}e^{13}, \frac{5}{233}\sqrt{118}e^{24}, \frac{5}{466}\sqrt{166}e^{15},$ $\frac{45}{932}\sqrt{14}e^{25} + \frac{5}{932}\sqrt{1162}e^{36}$	$(-\frac{95}{932}, \frac{45}{466}, \frac{45}{466}, -\frac{25}{466}, -\frac{5}{932}, -\frac{5}{932}, \frac{10}{233}, -\frac{25}{233}, \frac{85}{932})$ $+\frac{5}{233}\sqrt{86}e^4 \otimes e_8 + \frac{5}{466}\sqrt{510}e^3 \otimes e_7$	{123459, 1389, 2346, 3568, 123459, 1389, 2346, 3568}
952:86	$0, 0, 0, 0, \frac{5}{932}\sqrt{802}e^{12}, \frac{5}{932}\sqrt{830}e^{13}, \frac{5}{233}\sqrt{118}e^{24}, \frac{5}{466}\sqrt{166}e^{15},$ $\frac{45}{932}\sqrt{14}e^{25} + \frac{5}{932}\sqrt{1162}e^{36}$	$(-\frac{95}{932}, \frac{45}{466}, \frac{45}{466}, -\frac{25}{466}, -\frac{5}{932}, -\frac{5}{932}, \frac{10}{233}, -\frac{25}{233}, \frac{85}{932})$ $+\frac{5}{233}\sqrt{86}e^4 \otimes e_8 + \frac{5}{466}\sqrt{510}e^3 \otimes e_7$	{123459, 1389, 2346, 3568, 123459, 1389, 2346, 3568}
952:86	$0, 0, 0, 0, -\frac{1}{8}\sqrt{30}e^{12}, \frac{1}{24}\sqrt{258}e^{13}, \frac{1}{4}\sqrt{10}e^{24}, \frac{1}{12}\sqrt{6}e^{15},$ $\frac{1}{24}\sqrt{282}e^{25} + \frac{1}{8}\sqrt{30}e^{36}$	$(\frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8})$ $+\frac{1}{6}\sqrt{15}e^2 \otimes e_4 + \frac{1}{6}\sqrt{30}e^3 \otimes e_7$	{123459, 1389, 2346, 3568, 123459, 1389, 2346, 3568}
952:86	$0, 0, 0, 0, \frac{1}{8}\sqrt{30}e^{12}, \frac{1}{24}\sqrt{258}e^{13}, \frac{1}{4}\sqrt{10}e^{24}, \frac{1}{12}\sqrt{6}e^{15},$ $\frac{1}{24}\sqrt{282}e^{25} + \frac{1}{8}\sqrt{30}e^{36}$	$(\frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8})$ $+\frac{1}{6}\sqrt{15}e^2 \otimes e_4 + \frac{1}{6}\sqrt{30}e^3 \otimes e_7$	{123459, 1389, 2346, 3568, 123459, 1389, 2346, 3568}
952:86	$0, 0, 0, 0, -\frac{1}{196}\sqrt{7770}e^{12}, \frac{1}{196}\sqrt{12358}e^{13}, \frac{5}{49}\sqrt{37}e^{24}, \frac{1}{98}\sqrt{74}e^{15},$ $\frac{1}{196}\sqrt{7622}e^{25} + \frac{1}{196}\sqrt{12210}e^{36}$	$(-\frac{3}{196}, \frac{15}{98}, \frac{15}{98}, -\frac{37}{98}, \frac{27}{196}, \frac{27}{196}, -\frac{11}{49}, \frac{6}{49}, \frac{57}{196})$ $+\frac{1}{98}\sqrt{6290}e^3 \otimes e_7$	{1234589, 1256789, 139, 14679, 23468, 278, 356, 457, 1234589, 1256789, 139, 14679, 23468, 278, 356, 457}
952:86	$0, 0, 0, 0, \frac{1}{196}\sqrt{7770}e^{12}, \frac{1}{196}\sqrt{12358}e^{13}, \frac{5}{49}\sqrt{37}e^{24}, \frac{1}{98}\sqrt{74}e^{15},$ $\frac{1}{196}\sqrt{7622}e^{25} + \frac{1}{196}\sqrt{12210}e^{36}$	$(-\frac{3}{196}, \frac{15}{98}, \frac{15}{98}, -\frac{37}{98}, \frac{27}{196}, \frac{27}{196}, -\frac{11}{49}, \frac{6}{49}, \frac{57}{196})$ $+\frac{1}{98}\sqrt{6290}e^3 \otimes e_7$	{1234589, 1256789, 139, 14679, 23468, 278, 356, 457, 1234589, 1256789, 139, 14679, 23468, 278, 356, 457}
952:86	$0, 0, 0, 0, -\frac{2}{87}\sqrt{102}e^{12}, \frac{2}{87}\sqrt{186}e^{13}, \frac{8}{87}\sqrt{15}e^{24}, \frac{4}{29}\sqrt{5}e^{15},$ $\frac{2}{29}\sqrt{10}e^{25} + \frac{2}{29}\sqrt{42}e^{36}$	$(-\frac{4}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{10}{29}, -\frac{6}{29}, 0)$ $+\frac{4}{87}\sqrt{102}e^4 \otimes e_9 + \frac{4}{87}\sqrt{129}e^3 \otimes e_8$	{123579, 1689, 2346, 4578, 123579, 1689, 2346, 4578}
952:86	$0, 0, 0, 0, \frac{2}{87}\sqrt{102}e^{12}, \frac{2}{87}\sqrt{186}e^{13}, \frac{8}{87}\sqrt{15}e^{24}, \frac{4}{29}\sqrt{5}e^{15},$ $\frac{2}{29}\sqrt{10}e^{25} + \frac{2}{29}\sqrt{42}e^{36}$	$(-\frac{4}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{10}{29}, -\frac{6}{29}, 0)$ $+\frac{4}{87}\sqrt{102}e^4 \otimes e_9 + \frac{4}{87}\sqrt{129}e^3 \otimes e_8$	{123579, 1689, 2346, 4578, 123579, 1689, 2346, 4578}
952:86	$0, 0, 0, 0, -\frac{22}{601}\sqrt{174}e^{12}, \frac{22}{601}\sqrt{33}e^{13}, \frac{22}{601}\sqrt{46}e^{24}, \frac{22}{601}\sqrt{93}e^{15},$ $\frac{66}{601}\sqrt{6}e^{25} + \frac{22}{601}\sqrt{6}e^{36}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, -\frac{176}{601}, \frac{165}{601}, \frac{132}{601})$ $+\frac{154}{601}\sqrt{6}e^1 \otimes e_7 + \frac{22}{601}\sqrt{235}e^2 \otimes e_4$	{235678, 2578, 3467, 47, 235678, 2578, 3467, 47}
952:86	$0, 0, 0, 0, \frac{22}{601}\sqrt{174}e^{12}, \frac{22}{601}\sqrt{33}e^{13}, \frac{22}{601}\sqrt{46}e^{24}, \frac{22}{601}\sqrt{93}e^{15},$ $\frac{66}{601}\sqrt{6}e^{25} + \frac{22}{601}\sqrt{6}e^{36}$	$(\frac{66}{601}, \frac{33}{601}, \frac{33}{601}, -\frac{209}{601}, \frac{99}{601}, \frac{99}{601}, -\frac{176}{601}, \frac{165}{601}, \frac{132}{601})$ $+\frac{154}{601}\sqrt{6}e^1 \otimes e_7 + \frac{22}{601}\sqrt{235}e^2 \otimes e_4$	{235678, 2578, 3467, 47, 235678, 2578, 3467, 47}
952:88	$0, 0, 0, 0, \frac{1}{196}\sqrt{7770}e^{12}, \frac{5}{49}\sqrt{37}e^{13}, \frac{1}{196}\sqrt{12358}e^{24}, \frac{1}{98}\sqrt{74}e^{25},$ $\frac{1}{196}\sqrt{7622}e^{15} + \frac{1}{196}\sqrt{12210}e^{36}$	$(\frac{15}{98}, -\frac{3}{196}, \frac{27}{392}, -\frac{115}{392}, \frac{27}{196}, \frac{87}{392}, -\frac{121}{392}, \frac{6}{49}, \frac{57}{196})$ $+\frac{1}{98}\sqrt{6290}e^3 \otimes e_7$	{1234589, 1256789, 356, 457}
952:88	$0, 0, 0, 0, \frac{44}{1141}\sqrt{21}e^{12}, \frac{22}{1141}\sqrt{555}e^{13}, \frac{66}{1141}\sqrt{7}e^{24}, \frac{66}{1141}\sqrt{57}e^{25},$ $\frac{44}{1141}\sqrt{110}e^{15} + \frac{44}{1141}\sqrt{123}e^{36}$	$(\frac{209}{1141}, -\frac{33}{163}, -\frac{11}{1141}, \frac{198}{1141}, -\frac{22}{1141}, \frac{198}{1141}, -\frac{33}{1141}, -\frac{253}{1141}, \frac{187}{1141})$ $+\frac{22}{1141}\sqrt{105}e^1 \otimes e_7 + \frac{22}{1141}\sqrt{901}e^3 \otimes e_8$	{12359, 578}
952:88	$0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{644}{2629}e^{24}, \frac{414}{2629}\sqrt{3}e^{25},$ $\frac{46}{2629}\sqrt{417}e^{15} + \frac{276}{2629}e^{36}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{920}{2629}, \frac{414}{2629}, \frac{483}{2629}, -\frac{782}{2629}, \frac{552}{2629}, \frac{690}{2629})$ $+\frac{138}{2629}\sqrt{143}e^1 \otimes e_7 + \frac{46}{2629}\sqrt{1033}e^2 \otimes e_4$	{235679, 2579}
952:88	$0, 0, 0, 0, \frac{104}{4585}\sqrt{10}e^{12}, \frac{104}{4585}\sqrt{13}e^{13}, \frac{52}{4585}\sqrt{457}e^{24},$ $\frac{26}{4585}\sqrt{1059}e^{25}, \frac{52}{4585}\sqrt{433}e^{15} + \frac{104}{4585}\sqrt{15}e^{36}$	$(\frac{416}{4585}, -\frac{78}{655}, -\frac{13}{917}, \frac{624}{4585}, -\frac{26}{917}, \frac{351}{4585}, \frac{78}{4585}, -\frac{676}{4585}, \frac{286}{4585})$ $+\frac{26}{4585}\sqrt{2069}e^4 \otimes e_9 + \frac{78}{4585}\sqrt{237}e^1 \otimes e_7$	{34678, 478}
952:88	$0, 0, 0, 0, \frac{8}{69}\sqrt{3}e^{12}, \frac{8}{483}\sqrt{627}e^{13}, \frac{8}{483}\sqrt{21}e^{24}, \frac{8}{161}\sqrt{65}e^{25},$ $\frac{8}{161}\sqrt{55}e^{15} + \frac{48}{161}\sqrt{2}e^{36}$	$(\frac{20}{161}, -\frac{4}{23}, -\frac{4}{161}, \frac{44}{161}, -\frac{8}{161}, \frac{16}{161}, \frac{16}{161}, -\frac{36}{161}, \frac{12}{161})$ $+\frac{8}{483}\sqrt{1074}e^3 \otimes e_8 + \frac{8}{483}\sqrt{210}e^4 \otimes e_9$	{12359, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:88	$0, 0, 0, 0, \frac{2}{213}\sqrt{39}e^{12}, \frac{1}{213}\sqrt{690}e^{13}, \frac{1}{71}\sqrt{2}e^{24}, \frac{1}{213}\sqrt{1038}e^{25},$ $\frac{2}{71}\sqrt{15}e^{15} + \frac{2}{213}\sqrt{258}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+ \frac{1}{213}\sqrt{870}e^2 \otimes e_9 + \frac{2}{213}\sqrt{354}e^3 \otimes e_8$	{145689, 156789, 234567, 2356}
952:88	$0, 0, 0, 0, \frac{2}{213}\sqrt{39}e^{12}, \frac{1}{213}\sqrt{690}e^{13}, \frac{1}{71}\sqrt{2}e^{24}, \frac{1}{213}\sqrt{1038}e^{25},$ $\frac{2}{71}\sqrt{15}e^{15} + \frac{2}{213}\sqrt{258}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $- \frac{1}{213}\sqrt{870}e^2 \otimes e_9 + \frac{2}{213}\sqrt{354}e^3 \otimes e_8$	{145689, 156789, 234567, 2356}
952:88	$0, 0, 0, 0, \frac{12}{623}\sqrt{119}e^{12}, \frac{4}{623}\sqrt{5559}e^{13}, \frac{12}{623}\sqrt{119}e^{24}, \frac{4}{623}\sqrt{5559}e^{25},$ $\frac{4}{623}\sqrt{5015}e^{15} + \frac{204}{623}\sqrt{2}e^{36}$	$(\frac{106}{623}, -\frac{18}{89}, -\frac{10}{623}, \frac{138}{623}, -\frac{20}{623}, \frac{96}{623}, \frac{12}{623}, -\frac{146}{623}, \frac{86}{623})$ $+ \frac{8}{623}\sqrt{2329}e^3 \otimes e_8$	{1234579, 12359, 458, 578}
952:88	$0, 0, 0, 0, \frac{4}{3211}\sqrt{142809}e^{12}, \frac{4}{3211}\sqrt{131237}e^{13}, \frac{4}{169}\sqrt{789}e^{24},$ $\frac{4}{3211}\sqrt{152803}e^{25}, \frac{4}{3211}\sqrt{307973}e^{15} + \frac{8}{3211}\sqrt{14465}e^{36}$	$(\frac{998}{3211}, -\frac{534}{3211}, \frac{232}{3211}, -\frac{44}{247}, \frac{464}{3211}, \frac{1230}{3211}, -\frac{1106}{3211}, -\frac{70}{3211}, \frac{1462}{3211})$ $+ \frac{120}{3211}\sqrt{789}e^1 \otimes e_7$	{135, 156, 2356789, 25789}
952:88	$0, 0, 0, 0, \frac{42}{3889}\sqrt{17}e^{12}, \frac{12}{3889}\sqrt{271}e^{13}, \frac{6}{3889}\sqrt{1727}e^{24}, \frac{18}{3889}\sqrt{51}e^{25},$ $\frac{6}{3889}\sqrt{38}e^{15} + \frac{6}{3889}\sqrt{1309}e^{36}$	$(\frac{99}{3889}, -\frac{123}{3889}, -\frac{12}{3889}, \frac{93}{3889}, -\frac{24}{3889}, \frac{87}{3889}, -\frac{30}{3889}, -\frac{147}{3889}, \frac{75}{3889})$ $+ \frac{12}{3889}\sqrt{377}e^4 \otimes e_9 + \frac{6}{3889}\sqrt{2069}e^3 \otimes e_7$	{1256789, 457}
952:88	$0, 0, 0, 0, \frac{10}{137}\sqrt{23}e^{12}, \frac{40}{411}\sqrt{33}e^{13}, \frac{30}{137}\sqrt{5}e^{24}, \frac{10}{411}\sqrt{69}e^{25},$ $\frac{100}{411}\sqrt{3}e^{15} + \frac{10}{137}\sqrt{51}e^{36}$	$(\frac{15}{137}, \frac{5}{137}, \frac{10}{137}, -\frac{45}{137}, \frac{20}{137}, \frac{25}{137}, -\frac{40}{137}, \frac{25}{137}, \frac{35}{137})$ $+ \frac{10}{411}\sqrt{921}e^3 \otimes e_7 + \frac{20}{411}\sqrt{39}e^2 \otimes e_4$	{125679, 4578}
952:88	$0, 0, 0, 0, \frac{92}{1073}\sqrt{19}e^{12}, \frac{4}{3219}\sqrt{165623}e^{13}, \frac{4}{111}\sqrt{437}e^{24},$ $\frac{4}{3219}\sqrt{394611}e^{25}, \frac{4}{3219}\sqrt{144647}e^{15} + \frac{4}{3219}\sqrt{135470}e^{36}$	$(\frac{758}{3219}, -\frac{938}{3219}, -\frac{30}{1073}, \frac{82}{111}, -\frac{60}{1073}, \frac{668}{3219}, \frac{480}{1073}, -\frac{1118}{3219}, \frac{578}{3219})$ $+ \frac{8}{3219}\sqrt{286235}e^4 \otimes e_8$	{123459, 124569, 3568, 58}
952:88	$0, 0, 0, 0, \frac{12}{3271}\sqrt{249}e^{12}, \frac{12}{3271}\sqrt{1079}e^{13}, \frac{12}{3271}\sqrt{551}e^{24},$ $\frac{12}{3271}\sqrt{1679}e^{25}, \frac{108}{3271}\sqrt{15}e^{15} + \frac{12}{3271}\sqrt{1162}e^{36}$	$(\frac{162}{3271}, -\frac{102}{3271}, \frac{30}{3271}, -\frac{174}{3271}, \frac{60}{3271}, \frac{192}{3271}, -\frac{276}{3271}, -\frac{42}{3271}, \frac{222}{3271})$ $+ \frac{120}{3271}\sqrt{10}e^2 \otimes e_4 + \frac{24}{3271}\sqrt{499}e^3 \otimes e_8$	{145689, 2356}
952:88	$0, 0, 0, 0, \frac{12}{3091}\sqrt{46637}e^{12}, \frac{4}{3091}\sqrt{55401}e^{13}, \frac{4}{3091}\sqrt{236315}e^{24},$ $\frac{12}{3091}\sqrt{48515}e^{25}, \frac{4}{3091}\sqrt{106107}e^{15} + \frac{12}{3091}\sqrt{9390}e^{36}$	$(-\frac{354}{3091}, \frac{1110}{3091}, \frac{378}{3091}, -\frac{1394}{3091}, \frac{756}{3091}, \frac{24}{3091}, -\frac{284}{3091}, \frac{1866}{3091}, \frac{402}{3091})$ $+ \frac{8}{3091}\sqrt{205015}e^2 \otimes e_4$	{12368, 128, 349, 469}
952:88	$0, 0, 0, 0, \frac{102}{4145}\sqrt{103}e^{12}, \frac{68}{4145}\sqrt{397}e^{13}, \frac{34}{4145}\sqrt{1581}e^{24},$ $\frac{34}{4145}\sqrt{329}e^{25}, \frac{204}{4145}\sqrt{26}e^{15} + \frac{34}{4145}\sqrt{1279}e^{36}$	$(\frac{663}{4145}, -\frac{119}{829}, \frac{34}{4145}, \frac{51}{4145}, -\frac{68}{4145}, \frac{697}{4145}, -\frac{544}{4145}, -\frac{527}{4145}, \frac{731}{4145})$ $+ \frac{34}{4145}\sqrt{2513}e^3 \otimes e_7 + \frac{68}{4145}\sqrt{311}e^4 \otimes e_8$	{123459, 3568}
952:88	$0, 0, 0, 0, \frac{4}{3139}\sqrt{69527}e^{12}, \frac{4}{3139}\sqrt{31301}e^{13}, \frac{4}{3139}\sqrt{372565}e^{24},$ $\frac{4}{3139}\sqrt{178665}e^{25}, \frac{4}{3139}\sqrt{296113}e^{15} + \frac{4}{3139}\sqrt{191130}e^{36}$	$(-\frac{226}{3139}, \frac{30}{3139}, -\frac{98}{3139}, \frac{1794}{3139}, -\frac{196}{3139}, -\frac{324}{3139}, \frac{1824}{3139}, -\frac{166}{3139}, -\frac{422}{3139})$ $+ \frac{8}{3139}\sqrt{184205}e^4 \otimes e_9$	{1234568, 12458, 359, 569}
952:88	$0, 0, 0, 0, \frac{54}{3839}\sqrt{271}e^{12}, \frac{162}{3839}\sqrt{57}e^{13}, \frac{54}{349}\sqrt{10}e^{24}, \frac{54}{3839}\sqrt{62}e^{25},$ $\frac{54}{349}\sqrt{6}e^{15} + \frac{54}{3839}\sqrt{93}e^{36}$	$(\frac{1026}{3839}, -\frac{972}{3839}, \frac{27}{3839}, \frac{540}{3839}, \frac{54}{3839}, \frac{1053}{3839}, -\frac{432}{3839}, -\frac{918}{3839}, \frac{1080}{3839})$ $+ \frac{54}{3839}\sqrt{1303}e^4 \otimes e_8 + \frac{54}{3839}\sqrt{2089}e^1 \otimes e_7$	{2356789, 25789}
952:88	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{46}e^{13}, \frac{2}{29}\sqrt{26}e^{24}, \frac{4}{29}\sqrt{3}e^{25},$ $\frac{2}{29}\sqrt{14}e^{15} + \frac{8}{29}\sqrt{2}e^{36}$	$(\frac{6}{29}, -\frac{4}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{2}{29}, \frac{7}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{34}e^1 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 3568, 4578}
952:88	$0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{46}e^{13}, \frac{2}{29}\sqrt{26}e^{24}, \frac{4}{29}\sqrt{3}e^{25},$ $\frac{2}{29}\sqrt{14}e^{15} + \frac{8}{29}\sqrt{2}e^{36}$	$(\frac{6}{29}, -\frac{4}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{2}{29}, \frac{7}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{34}e^1 \otimes e_8 + \frac{4}{29}\sqrt{17}e^3 \otimes e_7$	{123459, 125679, 3568, 4578}
952:90	$0, 0, 0, 0, \frac{16}{719}\sqrt{274}e^{12}, \frac{40}{719}\sqrt{22}e^{13}, \frac{8}{719}\sqrt{1142}e^{34}, \frac{16}{719}\sqrt{137}e^{15},$ $\frac{32}{719}\sqrt{43}e^{16} + \frac{8}{719}\sqrt{730}e^{25}$	$(-\frac{24}{719}, \frac{56}{719}, \frac{136}{719}, -\frac{208}{719}, \frac{32}{719}, \frac{112}{719}, -\frac{72}{719}, \frac{8}{719}, \frac{88}{719})$ $+ \frac{16}{719}\sqrt{435}e^2 \otimes e_7 + \frac{8}{719}\sqrt{826}e^3 \otimes e_8$	{135679, 2568}
952:90	$0, 0, 0, 0, \frac{42}{8053}\sqrt{971}e^{12}, \frac{21}{8053}\sqrt{2590}e^{13}, \frac{42}{8053}\sqrt{1558}e^{34},$ $\frac{21}{8053}\sqrt{6802}e^{15}, \frac{21}{8053}\sqrt{86}e^{16} + \frac{42}{8053}\sqrt{449}e^{25}$	$(\frac{483}{8053}, -\frac{294}{8053}, \frac{1071}{8053}, \frac{1113}{8053}, \frac{189}{8053}, -\frac{588}{8053}, \frac{42}{8053}, \frac{672}{8053}, -\frac{105}{8053})$ $+ \frac{147}{8053}\sqrt{142}e^4 \otimes e_8 + \frac{84}{8053}\sqrt{478}e^1 \otimes e_7$	{13456, 4679}
952:90	$0, 0, 0, 0, \frac{2}{2641}\sqrt{637170}e^{12}, \frac{60}{2641}\sqrt{2219}e^{13}, \frac{2}{2641}\sqrt{440630}e^{34},$ $\frac{6}{2641}\sqrt{80835}e^{15}, \frac{6}{2641}\sqrt{147405}e^{16} + \frac{6}{2641}\sqrt{30115}e^{25}$	$(-\frac{345}{2641}, \frac{657}{2641}, \frac{1659}{2641}, -\frac{1511}{2641}, \frac{312}{2641}, \frac{1314}{2641}, \frac{148}{2641}, -\frac{33}{2641}, \frac{51}{139})$ $+ \frac{10}{2641}\sqrt{140431}e^3 \otimes e_4$	{124568, 146, 23689, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:90	$0, 0, 0, 0, \frac{25}{1681}\sqrt{94}e^{12}, \frac{25}{1681}\sqrt{191}e^{13}, \frac{25}{1681}\sqrt{1057}e^{34},$ $\frac{50}{1681}\sqrt{53}e^{15}, \frac{550}{1681}e^{16} + \frac{25}{1681}\sqrt{437}e^{25}$	$(-\frac{200}{1681}, \frac{25}{1681}, \frac{250}{1681}, \frac{475}{1681}, -\frac{175}{1681}, \frac{50}{1681}, \frac{725}{1681}, -\frac{375}{1681}, -\frac{150}{1681})$ $+ \frac{25}{1681}\sqrt{1355}e^3 \otimes e_8 + \frac{25}{1681}\sqrt{1614}e^4 \otimes e_9$	{14678, 23679}
952:90	$0, 0, 0, 0, \frac{2}{6763}\sqrt{1430}e^{12}, \frac{4}{6763}\sqrt{310}e^{13}, \frac{1}{6763}\sqrt{6162}e^{34}, \frac{10}{6763}\sqrt{41}e^{15},$ $\frac{1}{6763}\sqrt{3806}e^{16} + \frac{30}{6763}\sqrt{3}e^{25}$	$(\frac{24}{6763}, -\frac{13}{6763}, -\frac{50}{6763}, \frac{36}{6763}, \frac{11}{6763}, -\frac{26}{6763}, -\frac{14}{6763}, \frac{35}{6763}, -\frac{2}{6763})$ $+ \frac{2}{6763}\sqrt{1283}e^4 \otimes e_8 + \frac{2}{6763}\sqrt{1823}e^2 \otimes e_7$	{2568, 467}
952:90	$0, 0, 0, 0, \frac{6}{239}\sqrt{109}e^{12}, \frac{1}{239}\sqrt{11990}e^{13}, \frac{1}{239}\sqrt{30738}e^{34}, \frac{2}{239}\sqrt{8393}e^{15},$ $\frac{4}{239}\sqrt{327}e^{16} + \frac{1}{239}\sqrt{3270}e^{25}$	$(-\frac{59}{239}, \frac{41}{239}, \frac{141}{239}, -\frac{28}{239}, -\frac{18}{239}, \frac{82}{239}, \frac{113}{239}, -\frac{77}{239}, \frac{23}{239})$ $+ \frac{1}{239}\sqrt{85674}e^3 \otimes e_8$	{1345, 1357, 245789, 2589}
952:90	$0, 0, 0, 0, \frac{49}{6233}\sqrt{1434}e^{12}, \frac{147}{6233}\sqrt{266}e^{13}, \frac{49}{6233}\sqrt{2158}e^{34},$ $\frac{294}{6233}\sqrt{47}e^{15}, \frac{98}{6233}\sqrt{543}e^{16} + \frac{147}{6233}\sqrt{86}e^{25}$	$(\frac{588}{6233}, \frac{441}{6233}, \frac{294}{6233}, -\frac{2107}{6233}, \frac{1029}{6233}, \frac{882}{6233}, -\frac{1813}{6233}, \frac{1617}{6233}, \frac{1470}{6233})$ $+ \frac{147}{6233}\sqrt{814}e^1 \otimes e_7 + \frac{49}{6233}\sqrt{3598}e^3 \otimes e_4$	{2356789, 3679}
952:90	$0, 0, 0, 0, \frac{4}{569}\sqrt{1505}e^{12}, \frac{10}{569}\sqrt{43}e^{13}, \frac{4}{569}\sqrt{10105}e^{34}, \frac{18}{569}\sqrt{215}e^{15},$ $\frac{2}{569}\sqrt{37195}e^{16} + \frac{2}{569}\sqrt{34185}e^{25}$	$(\frac{25}{569}, -\frac{37}{569}, -\frac{99}{569}, \frac{381}{569}, -\frac{12}{569}, -\frac{74}{569}, \frac{282}{569}, \frac{13}{569}, -\frac{49}{569})$ $+ \frac{10}{569}\sqrt{4085}e^4 \otimes e_9$	{1245678, 1467, 236789, 35679}
952:90	$0, 0, 0, 0, \frac{15}{6821}\sqrt{4186}e^{12}, \frac{15}{6821}\sqrt{2834}e^{13}, \frac{30}{6821}\sqrt{1373}e^{34},$ $\frac{90}{6821}\sqrt{2}e^{15}, \frac{15}{6821}\sqrt{986}e^{16} + \frac{30}{6821}\sqrt{1213}e^{25}$	$(\frac{405}{6821}, -\frac{150}{6821}, \frac{705}{6821}, \frac{330}{6821}, \frac{255}{6821}, -\frac{300}{6821}, \frac{375}{6821}, \frac{660}{6821}, \frac{105}{6821})$ $+ \frac{15}{6821}\sqrt{7490}e^2 \otimes e_7 + \frac{30}{6821}\sqrt{1226}e^4 \otimes e_9$	{135679, 467}
952:90	$0, 0, 0, 0, \frac{7}{577}\sqrt{174}e^{12}, \frac{35}{1154}\sqrt{14}e^{13}, \frac{21}{1154}\sqrt{158}e^{34}, \frac{7}{577}\sqrt{362}e^{15},$ $\frac{7}{577}\sqrt{93}e^{16} + \frac{105}{1154}\sqrt{2}e^{25}$	$(-\frac{7}{577}, \frac{28}{577}, \frac{63}{577}, -\frac{119}{577}, \frac{21}{577}, \frac{56}{577}, -\frac{56}{577}, \frac{14}{577}, \frac{49}{577})$ $+ \frac{21}{577}\sqrt{65}e^1 \otimes e_7 + \frac{7}{1154}\sqrt{1806}e^3 \otimes e_8$	{1268, 3679}
952:90	$0, 0, 0, 0, \frac{35}{7109}\sqrt{1534}e^{12}, \frac{70}{7109}\sqrt{91}e^{13}, \frac{35}{7109}\sqrt{4618}e^{34},$ $\frac{140}{7109}\sqrt{78}e^{15}, \frac{35}{7109}\sqrt{3526}e^{16} + \frac{35}{7109}\sqrt{858}e^{25}$	$(\frac{910}{7109}, -\frac{385}{7109}, -\frac{1680}{7109}, \frac{1365}{7109}, \frac{525}{7109}, -\frac{770}{7109}, -\frac{315}{7109}, \frac{1435}{7109}, \frac{140}{7109})$ $+ \frac{35}{7109}\sqrt{5726}e^4 \otimes e_9 + \frac{35}{7109}\sqrt{6870}e^1 \otimes e_7$	{24578, 47}
952:90	$0, 0, 0, 0, \frac{3}{1403}\sqrt{82790}e^{12}, \frac{1}{1403}\sqrt{445118}e^{13}, \frac{2}{1403}\sqrt{150970}e^{34},$ $\frac{4}{1403}\sqrt{10714}e^{15}, \frac{1}{1403}\sqrt{423690}e^{16} + \frac{2}{1403}\sqrt{134899}e^{25}$	$(\frac{141}{1403}, \frac{84}{1403}, \frac{27}{1403}, \frac{430}{1403}, \frac{225}{1403}, \frac{168}{1403}, -\frac{403}{1403}, \frac{6}{23}, \frac{309}{1403})$ $+ \frac{1}{1403}\sqrt{1181462}e^2 \otimes e_7$	{1234689, 135679, 2568, 467}
952:90	$0, 0, 0, 0, \frac{11}{349}\sqrt{370}e^{12}, \frac{11}{1047}\sqrt{1938}e^{13}, \frac{110}{349}\sqrt{3}e^{34}, \frac{22}{1047}\sqrt{186}e^{15},$ $\frac{11}{349}\sqrt{210}e^{16} + \frac{22}{1047}\sqrt{609}e^{25}$	$(\frac{33}{349}, \frac{22}{349}, \frac{11}{349}, -\frac{110}{349}, \frac{55}{349}, \frac{44}{349}, -\frac{99}{349}, \frac{88}{349}, \frac{77}{349})$ $+ \frac{11}{1047}\sqrt{5322}e^2 \otimes e_7 + \frac{22}{1047}\sqrt{30}e^3 \otimes e_4$	{135679, 467}
952:90	$0, 0, 0, 0, \frac{714}{2977}\sqrt{5}e^{12}, \frac{14}{2977}\sqrt{2261}e^{13}, \frac{28}{2977}\sqrt{4029}e^{34},$ $\frac{14}{2977}\sqrt{14705}e^{15}, \frac{42}{2977}\sqrt{1037}e^{16} + \frac{140}{2977}\sqrt{51}e^{25}$	$(\frac{665}{2977}, \frac{49}{2977}, -\frac{567}{2977}, -\frac{434}{2977}, \frac{714}{2977}, \frac{98}{2977}, -\frac{77}{229}, \frac{1379}{2977}, \frac{763}{2977})$ $+ \frac{14}{2977}\sqrt{41871}e^1 \otimes e_7$	{1268, 156, 2356789, 3679}
952:90	$0, 0, 0, 0, \frac{2}{1371}\sqrt{154331}e^{12}, \frac{1}{1371}\sqrt{961374}e^{13}, \frac{2}{1371}\sqrt{304730}e^{34},$ $\frac{7}{1371}\sqrt{29490}e^{15}, \frac{1}{1371}\sqrt{493466}e^{16} + \frac{2}{1371}\sqrt{46201}e^{25}$	$(-\frac{107}{1371}, -\frac{6}{457}, \frac{71}{1371}, \frac{751}{1371}, -\frac{125}{1371}, -\frac{12}{457}, \frac{274}{457}, -\frac{232}{1371}, -\frac{143}{1371})$ $+ \frac{1}{1371}\sqrt{2298254}e^4 \otimes e_8$	{128, 1457, 235789, 349}
952:91	$0, 0, 0, 0, -\frac{3}{184}\sqrt{730}e^{12}, \frac{1}{184}\sqrt{26718}e^{13}, \frac{5}{92}\sqrt{146}e^{34}, \frac{3}{92}\sqrt{146}e^{15},$ $\frac{3}{184}\sqrt{438}e^{25} + \frac{1}{184}\sqrt{24090}e^{36}$	$(-\frac{27}{184}, \frac{15}{46}, \frac{15}{46}, -\frac{43}{92}, \frac{33}{184}, \frac{33}{184}, -\frac{13}{92}, \frac{3}{92}, \frac{93}{184})$ $+ \frac{1}{23}\sqrt{730}e^3 \otimes e_4$	{123589, 1245689, 139, 1469, 2368, 248, 356, 45, 123589, 1245689, 139, 1469, 2368, 248, 356, 45}
952:91	$0, 0, 0, 0, \frac{3}{184}\sqrt{730}e^{12}, \frac{1}{184}\sqrt{26718}e^{13}, \frac{5}{92}\sqrt{146}e^{34}, \frac{3}{92}\sqrt{146}e^{15},$ $\frac{3}{184}\sqrt{438}e^{25} + \frac{1}{184}\sqrt{24090}e^{36}$	$(-\frac{27}{184}, \frac{15}{46}, \frac{15}{46}, -\frac{43}{92}, \frac{33}{184}, \frac{33}{184}, -\frac{13}{92}, \frac{3}{92}, \frac{93}{184})$ $+ \frac{1}{23}\sqrt{730}e^3 \otimes e_4$	{123589, 1245689, 139, 1469, 2368, 248, 356, 45, 123589, 1245689, 139, 1469, 2368, 248, 356, 45}
952:91	$0, 0, 0, 0, -\frac{5}{932}\sqrt{1162}e^{12}, \frac{45}{932}\sqrt{14}e^{13}, \frac{5}{233}\sqrt{118}e^{34}, \frac{5}{466}\sqrt{166}e^{15},$ $\frac{5}{932}\sqrt{830}e^{25} + \frac{5}{932}\sqrt{802}e^{36}$	$(-\frac{95}{932}, \frac{45}{466}, \frac{45}{466}, -\frac{25}{466}, -\frac{5}{932}, -\frac{5}{932}, \frac{10}{233}, -\frac{25}{233}, \frac{85}{932})$ $+ \frac{5}{233}\sqrt{86}e^4 \otimes e_8 + \frac{5}{466}\sqrt{510}e^2 \otimes e_7$	{1289, 14579, 2568, 467, 1289, 14579, 2568, 467}
952:91	$0, 0, 0, 0, \frac{5}{932}\sqrt{1162}e^{12}, \frac{45}{932}\sqrt{14}e^{13}, \frac{5}{233}\sqrt{118}e^{34}, \frac{5}{466}\sqrt{166}e^{15},$ $\frac{5}{932}\sqrt{830}e^{25} + \frac{5}{932}\sqrt{802}e^{36}$	$(-\frac{95}{932}, \frac{45}{466}, \frac{45}{466}, -\frac{25}{466}, -\frac{5}{932}, -\frac{5}{932}, \frac{10}{233}, -\frac{25}{233}, \frac{85}{932})$ $+ \frac{5}{233}\sqrt{86}e^4 \otimes e_8 + \frac{5}{466}\sqrt{510}e^2 \otimes e_7$	{1289, 14579, 2568, 467, 1289, 14579, 2568, 467}
952:91	$0, 0, 0, 0, -\frac{1}{8}\sqrt{30}e^{12}, \frac{1}{24}\sqrt{282}e^{13}, \frac{1}{4}\sqrt{10}e^{34}, \frac{1}{12}\sqrt{6}e^{15},$ $\frac{1}{24}\sqrt{258}e^{25} + \frac{1}{8}\sqrt{30}e^{36}$	$(\frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8})$ $+ \frac{1}{6}\sqrt{15}e^3 \otimes e_4 + \frac{1}{6}\sqrt{30}e^2 \otimes e_7$	{1234689, 1289, 23458, 2568, 1234689, 1289, 23458, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:91	$0, 0, 0, 0, \frac{1}{8}\sqrt{30}e^{12}, \frac{1}{24}\sqrt{282}e^{13}, \frac{1}{4}\sqrt{10}e^{34}, \frac{1}{12}\sqrt{6}e^{15},$ $\frac{1}{24}\sqrt{258}e^{25} + \frac{1}{8}\sqrt{30}e^{36}$	$(\frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8})$ $+\frac{1}{6}\sqrt{15}e^3 \otimes e_4 + \frac{1}{6}\sqrt{30}e^2 \otimes e_7$	{1234689, 1289, 23458, 2568, 1234689, 1289, 23458, 2568}
952:91	$0, 0, 0, 0, -\frac{8}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{46}e^{34}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{26}e^{25} + \frac{4}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{2}{29}\sqrt{34}e^3 \otimes e_8 + \frac{4}{29}\sqrt{17}e^2 \otimes e_7$	{1289, 135679, 2568, 37, 1289, 135679, 2568, 37}
952:91	$0, 0, 0, 0, \frac{8}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{46}e^{34}, \frac{4}{29}\sqrt{3}e^{15},$ $\frac{2}{29}\sqrt{26}e^{25} + \frac{4}{29}\sqrt{2}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{2}{29}\sqrt{34}e^3 \otimes e_8 + \frac{4}{29}\sqrt{17}e^2 \otimes e_7$	{1289, 135679, 2568, 37, 1289, 135679, 2568, 37}
952:91	$0, 0, 0, 0, -\frac{2}{1157}\sqrt{1310}e^{12}, \frac{2}{1157}\sqrt{942}e^{13}, \frac{4}{1157}\sqrt{515}e^{34}, \frac{4}{1157}\sqrt{39}e^{15},$ $\frac{2}{1157}\sqrt{1798}e^{25} + \frac{2}{1157}\sqrt{610}e^{36}$	$(\frac{44}{1157}, -\frac{30}{1157}, -\frac{30}{1157}, -\frac{8}{1157}, \frac{14}{1157}, \frac{14}{1157}, -\frac{38}{1157}, \frac{58}{1157}, -\frac{16}{1157})$ $+\frac{20}{1157}\sqrt{26}e^2 \otimes e_7 + \frac{4}{1157}\sqrt{410}e^4 \otimes e_9$	{129, 1356789, 2345, 4678, 129, 1356789, 2345, 4678}
952:91	$0, 0, 0, 0, \frac{2}{1157}\sqrt{1310}e^{12}, \frac{2}{1157}\sqrt{942}e^{13}, \frac{4}{1157}\sqrt{515}e^{34}, \frac{4}{1157}\sqrt{39}e^{15},$ $\frac{2}{1157}\sqrt{1798}e^{25} + \frac{2}{1157}\sqrt{610}e^{36}$	$(\frac{44}{1157}, -\frac{30}{1157}, -\frac{30}{1157}, -\frac{8}{1157}, \frac{14}{1157}, \frac{14}{1157}, -\frac{38}{1157}, \frac{58}{1157}, -\frac{16}{1157})$ $+\frac{20}{1157}\sqrt{26}e^2 \otimes e_7 + \frac{4}{1157}\sqrt{410}e^4 \otimes e_9$	{129, 1356789, 2345, 4678, 129, 1356789, 2345, 4678}
952:91	$0, 0, 0, 0, -\frac{1}{196}\sqrt{12210}e^{12}, \frac{1}{196}\sqrt{7622}e^{13}, \frac{5}{49}\sqrt{37}e^{34}, \frac{1}{98}\sqrt{74}e^{15},$ $\frac{1}{196}\sqrt{12358}e^{25} + \frac{1}{196}\sqrt{7770}e^{36}$	$(-\frac{3}{196}, \frac{15}{98}, \frac{15}{98}, -\frac{37}{98}, \frac{27}{196}, \frac{27}{196}, -\frac{11}{49}, \frac{6}{49}, \frac{57}{196})$ $+\frac{1}{98}\sqrt{6290}e^2 \otimes e_7$	{123469, 129, 1356789, 145789, 2345, 256, 378, 4678, 123469, 129, 1356789, 145789, 2345, 256, 378, 4678}
952:91	$0, 0, 0, 0, \frac{1}{196}\sqrt{12210}e^{12}, \frac{1}{196}\sqrt{7622}e^{13}, \frac{5}{49}\sqrt{37}e^{34}, \frac{1}{98}\sqrt{74}e^{15},$ $\frac{1}{196}\sqrt{12358}e^{25} + \frac{1}{196}\sqrt{7770}e^{36}$	$(-\frac{3}{196}, \frac{15}{98}, \frac{15}{98}, -\frac{37}{98}, \frac{27}{196}, \frac{27}{196}, -\frac{11}{49}, \frac{6}{49}, \frac{57}{196})$ $+\frac{1}{98}\sqrt{6290}e^2 \otimes e_7$	{123469, 129, 1356789, 145789, 2345, 256, 378, 4678, 123469, 129, 1356789, 145789, 2345, 256, 378, 4678}
952:91	$0, 0, 0, 0, -\frac{2}{29}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{66}e^{13}, \frac{8}{87}\sqrt{15}e^{34}, \frac{4}{29}\sqrt{5}e^{15},$ $\frac{2}{87}\sqrt{30}e^{25} + \frac{2}{87}\sqrt{258}e^{36}$	$(-\frac{4}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{10}{29}, -\frac{6}{29}, 0)$ $+\frac{4}{87}\sqrt{102}e^4 \otimes e_9 + \frac{4}{87}\sqrt{129}e^3 \otimes e_8$	{12689, 13579, 24578, 346, 12689, 13579, 24578, 346}
952:91	$0, 0, 0, 0, \frac{2}{29}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{66}e^{13}, \frac{8}{87}\sqrt{15}e^{34}, \frac{4}{29}\sqrt{5}e^{15},$ $\frac{2}{87}\sqrt{30}e^{25} + \frac{2}{87}\sqrt{258}e^{36}$	$(-\frac{4}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{10}{29}, -\frac{6}{29}, 0)$ $+\frac{4}{87}\sqrt{102}e^4 \otimes e_9 + \frac{4}{87}\sqrt{129}e^3 \otimes e_8$	{12689, 13579, 24578, 346, 12689, 13579, 24578, 346}
952:93	$0, 0, 0, 0, \frac{102}{659}\sqrt{3}e^{12}, \frac{17}{659}\sqrt{390}e^{13}, \frac{34}{659}\sqrt{7}e^{34}, \frac{68}{659}\sqrt{3}e^{25},$ $\frac{34}{659}\sqrt{3}e^{15} + \frac{68}{659}\sqrt{15}e^{36}$	$(\frac{102}{659}, 0, \frac{51}{659}, -\frac{238}{659}, \frac{102}{659}, \frac{153}{659}, -\frac{187}{659}, \frac{102}{659}, \frac{204}{659})$ $+\frac{34}{659}\sqrt{15}e^3 \otimes e_4 + \frac{51}{659}\sqrt{62}e^1 \otimes e_7$	{367, 47}
952:93	$0, 0, 0, 0, \frac{26}{901}\sqrt{35}e^{12}, \frac{13}{901}\sqrt{626}e^{13}, \frac{13}{901}\sqrt{158}e^{34}, \frac{26}{901}\sqrt{158}e^{25},$ $\frac{13}{901}\sqrt{462}e^{15} + \frac{39}{901}\sqrt{78}e^{36}$	$(\frac{91}{901}, -\frac{143}{901}, -\frac{26}{901}, \frac{208}{901}, -\frac{52}{901}, \frac{65}{901}, \frac{182}{901}, -\frac{195}{901}, \frac{39}{901})$ $+\frac{26}{901}\sqrt{307}e^3 \otimes e_8 + \frac{52}{901}\sqrt{23}e^4 \otimes e_9$	{123579, 4578}
952:93	$0, 0, 0, 0, \frac{3}{1433}\sqrt{39810}e^{12}, \frac{1}{1433}\sqrt{411370}e^{13}, \frac{2}{1433}\sqrt{375541}e^{34},$ $\frac{1}{1433}\sqrt{1255342}e^{25}, \frac{2}{1433}\sqrt{9289}e^{15} + \frac{2}{1433}\sqrt{72985}e^{36}$	$(\frac{256}{1433}, -\frac{358}{1433}, -\frac{51}{1433}, \frac{867}{1433}, -\frac{102}{1433}, \frac{205}{1433}, \frac{816}{1433}, -\frac{460}{1433}, \frac{154}{1433})$ $+\frac{13}{1433}\sqrt{18578}e^4 \otimes e_8$	{1236789, 1289, 34, 467}
952:93	$0, 0, 0, 0, \frac{136}{2501}\sqrt{2}e^{12}, \frac{136}{2501}\sqrt{77}e^{13}, \frac{272}{2501}\sqrt{10}e^{34},$ $\frac{34}{2501}\sqrt{553}e^{25}, \frac{34}{2501}\sqrt{523}e^{15} + \frac{68}{2501}\sqrt{230}e^{36}$	$(\frac{459}{2501}, -\frac{289}{2501}, \frac{85}{2501}, -\frac{493}{2501}, \frac{170}{2501}, \frac{544}{2501}, -\frac{408}{2501}, -\frac{119}{2501}, \frac{629}{2501})$ $+\frac{34}{2501}\sqrt{1365}e^3 \otimes e_4 - \frac{68}{2501}\sqrt{226}e^1 \otimes e_8$	{12359, 124569, 3568, 458}
952:93	$0, 0, 0, 0, \frac{136}{2501}\sqrt{2}e^{12}, \frac{136}{2501}\sqrt{77}e^{13}, \frac{272}{2501}\sqrt{10}e^{34},$ $\frac{34}{2501}\sqrt{553}e^{25}, \frac{34}{2501}\sqrt{523}e^{15} + \frac{68}{2501}\sqrt{230}e^{36}$	$(\frac{459}{2501}, -\frac{289}{2501}, \frac{85}{2501}, -\frac{493}{2501}, \frac{170}{2501}, \frac{544}{2501}, -\frac{408}{2501}, -\frac{119}{2501}, \frac{629}{2501})$ $+\frac{34}{2501}\sqrt{1365}e^3 \otimes e_4 + \frac{68}{2501}\sqrt{226}e^1 \otimes e_8$	{12359, 124569, 3568, 458}
952:93	$0, 0, 0, 0, \frac{5}{213}\sqrt{6}e^{12}, \frac{2}{213}\sqrt{174}e^{13}, \frac{1}{71}\sqrt{2}e^{34}, \frac{2}{213}\sqrt{258}e^{25},$ $\frac{2}{71}\sqrt{15}e^{15} + \frac{1}{213}\sqrt{1038}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+\frac{1}{213}\sqrt{1410}e^3 \otimes e_8 - \frac{2}{213}\sqrt{219}e^2 \otimes e_9$	{145689, 156789, 234567, 2356}
952:93	$0, 0, 0, 0, \frac{5}{213}\sqrt{6}e^{12}, \frac{2}{213}\sqrt{174}e^{13}, \frac{1}{71}\sqrt{2}e^{34}, \frac{2}{213}\sqrt{258}e^{25},$ $\frac{2}{71}\sqrt{15}e^{15} + \frac{1}{213}\sqrt{1038}e^{36}$	$(-\frac{1}{71}, -\frac{1}{71}, -\frac{1}{71}, \frac{8}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{7}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+\frac{1}{213}\sqrt{1410}e^3 \otimes e_8 + \frac{2}{213}\sqrt{219}e^2 \otimes e_9$	{145689, 156789, 234567, 2356}
952:93	$0, 0, 0, 0, \frac{12}{401}\sqrt{35}e^{12}, \frac{60}{401}\sqrt{6}e^{13}, \frac{12}{401}\sqrt{110}e^{34}, \frac{6}{401}\sqrt{445}e^{25},$ $\frac{18}{401}\sqrt{35}e^{15} + \frac{12}{401}\sqrt{230}e^{36}$	$(-\frac{45}{401}, \frac{87}{401}, \frac{21}{401}, -\frac{69}{401}, \frac{42}{401}, -\frac{24}{401}, -\frac{48}{401}, \frac{129}{401}, -\frac{3}{401})$ $-\frac{12}{401}\sqrt{205}e^2 \otimes e_9 + \frac{6}{401}\sqrt{985}e^3 \otimes e_4$	{13589, 145689, 2356, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:93	$0, 0, 0, 0, \frac{12}{401}\sqrt{35}e^{12}, \frac{60}{401}\sqrt{6}e^{13}, \frac{12}{401}\sqrt{110}e^{34}, \frac{6}{401}\sqrt{445}e^{25},$ $\frac{18}{401}\sqrt{35}e^{15} + \frac{12}{401}\sqrt{230}e^{36}$	$(-\frac{45}{401}, \frac{87}{401}, \frac{21}{401}, -\frac{69}{401}, \frac{42}{401}, -\frac{24}{401}, -\frac{48}{401}, \frac{129}{401}, -\frac{3}{401})$ $+ \frac{12}{401}\sqrt{205}e^2 \otimes e_9 + \frac{6}{401}\sqrt{985}e^3 \otimes e_4$	{13589, 145689, 2356, 245}
952:93	$0, 0, 0, 0, \frac{1}{289}\sqrt{35178}e^{12}, \frac{4}{289}\sqrt{1430}e^{13}, \frac{4}{289}\sqrt{2431}e^{34}, \frac{44}{289}\sqrt{13}e^{25},$ $\frac{5}{289}\sqrt{286}e^{15} + \frac{13}{289}\sqrt{66}e^{36}$	$(-\frac{24}{289}, \frac{78}{289}, \frac{27}{289}, -\frac{92}{289}, \frac{54}{289}, \frac{3}{289}, -\frac{65}{289}, \frac{132}{289}, \frac{30}{289})$ $+ \frac{7}{289}\sqrt{1430}e^2 \otimes e_7$	{1234689, 1289, 37, 467}
952:93	$0, 0, 0, 0, \frac{4}{1427}\sqrt{45870}e^{12}, \frac{1}{1427}\sqrt{218230}e^{13}, \frac{3}{1427}\sqrt{101470}e^{34},$ $\frac{4}{1427}\sqrt{14595}e^{25} + \frac{1}{1427}\sqrt{991070}e^{15} + \frac{3}{1427}\sqrt{59770}e^{36}$	$(\frac{343}{1427}, -\frac{151}{1427}, \frac{96}{1427}, -\frac{448}{1427}, \frac{192}{1427}, \frac{439}{1427}, -\frac{352}{1427}, \frac{41}{1427}, \frac{535}{1427})$ $+ \frac{2}{1427}\sqrt{423255}e^1 \otimes e_7$	{123469, 129, 378, 4678}
952:93	$0, 0, 0, 0, \frac{12}{287}\sqrt{3}e^{12}, \frac{6}{287}\sqrt{30}e^{13}, \frac{3}{287}\sqrt{106}e^{34}, \frac{12}{287}\sqrt{15}e^{25},$ $\frac{3}{287}\sqrt{146}e^{15} + \frac{6}{287}\sqrt{34}e^{36}$	$(\frac{18}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{24}{287}, \frac{6}{287}, \frac{3}{287}, -\frac{3}{41}, -\frac{6}{287}, \frac{24}{287})$ $+ \frac{3}{287}\sqrt{206}e^2 \otimes e_7 + \frac{3}{287}\sqrt{310}e^3 \otimes e_8$	{1456789, 23456}
952:93	$0, 0, 0, 0, \frac{4}{185}\sqrt{222}e^{12}, \frac{1}{185}\sqrt{1702}e^{13}, \frac{1}{185}\sqrt{6142}e^{34}, \frac{4}{185}\sqrt{37}e^{25},$ $\frac{1}{185}\sqrt{4366}e^{15} + \frac{1}{185}\sqrt{3034}e^{36}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{185}\sqrt{1887}e^1 \otimes e_7 + \frac{8}{185}\sqrt{74}e^4 \otimes e_8$	{1289, 467}
952:93	$0, 0, 0, 0, \frac{124}{6853}\sqrt{262}e^{12}, \frac{31}{6853}\sqrt{4170}e^{13}, \frac{31}{6853}\sqrt{6294}e^{34},$ $\frac{62}{6853}\sqrt{418}e^{25} + \frac{31}{6853}\sqrt{3390}e^{15} + \frac{31}{6853}\sqrt{1006}e^{36}$	$(-\frac{93}{623}, \frac{1271}{6853}, \frac{124}{6853}, \frac{186}{6853}, \frac{248}{6853}, -\frac{899}{6853}, \frac{310}{6853}, \frac{217}{6853}, -\frac{775}{6853})$ $+ \frac{248}{6853}\sqrt{110}e^2 \otimes e_7 + \frac{310}{6853}\sqrt{53}e^4 \otimes e_9$	{1289, 467}
952:93	$0, 0, 0, 0, \frac{300}{2581}\sqrt{14}e^{12}, \frac{200}{2581}\sqrt{111}e^{13}, \frac{200}{2581}\sqrt{65}e^{34},$ $\frac{50}{2581}\sqrt{489}e^{25} + \frac{50}{2581}\sqrt{1203}e^{15} + \frac{100}{2581}\sqrt{402}e^{36}$	$(\frac{195}{2581}, \frac{279}{2581}, \frac{237}{2581}, -\frac{1013}{2581}, \frac{474}{2581}, \frac{432}{2581}, -\frac{776}{2581}, \frac{753}{2581}, \frac{669}{2581})$ $+ \frac{50}{2581}\sqrt{2317}e^3 \otimes e_4$	{12359, 124569, 3568, 458}
952:93	$0, 0, 0, 0, \frac{36}{9437}\sqrt{37}e^{12}, \frac{15}{9437}\sqrt{178}e^{13}, \frac{3}{9437}\sqrt{8666}e^{34},$ $\frac{6}{9437}\sqrt{1499}e^{25} + \frac{3}{9437}\sqrt{886}e^{15} + \frac{3}{9437}\sqrt{2674}e^{36}$	$(-\frac{117}{9437}, \frac{105}{9437}, -\frac{6}{9437}, \frac{102}{9437}, -\frac{12}{9437}, -\frac{123}{9437}, \frac{96}{9437}, \frac{93}{9437}, -\frac{129}{9437})$ $+ \frac{6}{9437}\sqrt{1835}e^4 \otimes e_8 + \frac{6}{9437}\sqrt{2501}e^2 \otimes e_7$	{1289, 467}
952:93	$0, 0, 0, 0, \frac{18}{8269}\sqrt{1110}e^{12}, \frac{9}{8269}\sqrt{3494}e^{13}, \frac{63}{8269}\sqrt{154}e^{34},$ $\frac{18}{8269}\sqrt{582}e^{25} + \frac{9}{8269}\sqrt{8322}e^{15} + \frac{9}{8269}\sqrt{2606}e^{36}$	$(\frac{279}{8269}, -\frac{387}{8269}, \frac{54}{8269}, \frac{252}{8269}, -\frac{108}{8269}, \frac{225}{8269}, \frac{198}{8269}, -\frac{495}{8269}, \frac{171}{8269})$ $+ \frac{18}{8269}\sqrt{1678}e^4 \otimes e_9 + \frac{18}{8269}\sqrt{2122}e^1 \otimes e_7$	{129, 4678}
952:93	$0, 0, 0, 0, \frac{4}{1419}\sqrt{28678}e^{12}, \frac{1}{1419}\sqrt{871370}e^{13}, \frac{1}{1419}\sqrt{1281686}e^{34},$ $\frac{2}{1419}\sqrt{72798}e^{25} + \frac{25}{1419}\sqrt{2206}e^{15} + \frac{1}{1419}\sqrt{156626}e^{36}$	$(-\frac{19}{129}, \frac{51}{473}, -\frac{28}{1419}, \frac{838}{1419}, -\frac{56}{1419}, -\frac{79}{473}, \frac{270}{473}, \frac{97}{1419}, -\frac{265}{1419})$ $+ \frac{2}{1419}\sqrt{656285}e^4 \otimes e_9$	{13456, 1457, 235789, 25689}
952:93	$0, 0, 0, 0, \frac{4}{353}\sqrt{510}e^{12}, \frac{3}{353}\sqrt{3570}e^{13}, \frac{1}{353}\sqrt{510}e^{34}, \frac{2}{353}\sqrt{7310}e^{25},$ $\frac{1}{353}\sqrt{27710}e^{15} + \frac{1}{353}\sqrt{29410}e^{36}$	$(\frac{67}{353}, -\frac{79}{353}, -\frac{6}{353}, \frac{48}{353}, -\frac{12}{353}, \frac{61}{353}, \frac{42}{353}, -\frac{91}{353}, \frac{55}{353})$ $+ \frac{2}{353}\sqrt{13090}e^3 \otimes e_8$	{1234579, 12359, 458, 578}
952:95	$0, 0, 0, 0, \frac{19}{1559}\sqrt{210}e^{12}, \frac{19}{1559}\sqrt{1290}e^{13},$ $\frac{19}{1559}\sqrt{2418}e^{14} + \frac{76}{1559}\sqrt{78}e^{23}, \frac{19}{1559}\sqrt{3714}e^{15}, \frac{1026}{1559}e^{16} + \frac{209}{1559}\sqrt{30}e^{24}$	$(-\frac{152}{1559}, -\frac{228}{1559}, \frac{627}{1559}, \frac{551}{1559}, \frac{380}{1559}, \frac{475}{1559}, \frac{399}{1559}, -\frac{532}{1559}, \frac{323}{1559})$ $+ \frac{19}{1559}\sqrt{8130}e^4 \otimes e_8$	{1236789, 134569}
952:95	$0, 0, 0, 0, \frac{31}{1233}\sqrt{195}e^{12}, \frac{31}{1233}\sqrt{518}e^{13}, \frac{31}{1233}\sqrt{67}e^{14} + \frac{31}{1233}\sqrt{894}e^{23},$ $\frac{124}{1233}\sqrt{51}e^{15} + \frac{31}{1233}\sqrt{103}e^{16} + \frac{248}{1233}e^{24}$	$(-\frac{124}{1233}, -\frac{62}{411}, \frac{527}{1233}, \frac{155}{411}, -\frac{310}{1233}, \frac{403}{1233}, \frac{341}{1233}, -\frac{434}{1233}, \frac{31}{137})$ $+ \frac{155}{1233}\sqrt{83}e^3 \otimes e_8$	{12359, 168}
952:96	$0, 0, 0, 0, \frac{126}{5437}\sqrt{70}e^{12}, \frac{315}{5437}\sqrt{6}e^{13},$ $\frac{63}{5437}\sqrt{4390}e^{14} + \frac{63}{5437}\sqrt{3026}e^{23}, \frac{63}{5437}\sqrt{3774}e^{25}, \frac{63}{5437}\sqrt{1718}e^{16} + \frac{63}{5437}\sqrt{2578}e^{24}$	$(-\frac{504}{5437}, -\frac{756}{5437}, \frac{2205}{5437}, \frac{1953}{5437}, -\frac{1260}{5437}, \frac{1701}{5437}, \frac{1449}{5437}, -\frac{2016}{5437}, \frac{1197}{5437})$ $+ \frac{126}{5437}\sqrt{2335}e^4 \otimes e_8$	{289, 3568}
952:96	$0, 0, 0, 0, \frac{1}{21}\sqrt{85}e^{12}, \frac{1}{21}\sqrt{238}e^{13}, \frac{1}{21}\sqrt{85}e^{14} + \frac{1}{21}\sqrt{170}e^{23},$ $\frac{2}{21}\sqrt{51}e^{25}, \frac{1}{21}\sqrt{119}e^{16} + \frac{2}{21}\sqrt{17}e^{24}$	$(-\frac{2}{21}, -\frac{1}{7}, \frac{3}{7}, \frac{8}{21}, -\frac{5}{21}, \frac{1}{3}, \frac{2}{7}, -\frac{8}{21}, \frac{5}{21})$ $+ \frac{1}{21}\sqrt{595}e^3 \otimes e_8$	{278, 458}
952:97	$0, 0, 0, 0, \frac{70}{1031}\sqrt{30}e^{12}, \frac{42}{1031}\sqrt{105}e^{13},$ $\frac{14}{1031}\sqrt{303}e^{14} + \frac{21}{1031}\sqrt{178}e^{23}, \frac{462}{1031}e^{15}, \frac{7}{1031}\sqrt{4314}e^{16} + \frac{7}{1031}\sqrt{4890}e^{34}$	$(\frac{7}{1031}, -\frac{147}{1031}, \frac{168}{1031}, \frac{14}{1031}, -\frac{140}{1031}, \frac{175}{1031}, \frac{21}{1031}, -\frac{133}{1031}, \frac{182}{1031})$ $+ \frac{63}{1031}\sqrt{70}e^4 \otimes e_8$	{1236789, 2568}
952:97	$0, 0, 0, 0, \frac{84}{283}\sqrt{5}e^{12}, \frac{7}{283}\sqrt{483}e^{13}, \frac{7}{283}\sqrt{555}e^{14} + \frac{84}{283}\sqrt{3}e^{23},$ $\frac{7}{283}\sqrt{381}e^{15}, \frac{84}{283}e^{16} + \frac{84}{283}\sqrt{5}e^{34}$	$(\frac{7}{283}, \frac{91}{283}, -\frac{70}{283}, \frac{14}{283}, \frac{98}{283}, -\frac{63}{283}, \frac{21}{283}, \frac{105}{283}, -\frac{56}{283})$ $+ \frac{21}{283}\sqrt{161}e^2 \otimes e_9$	{23458, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:98	$0, 0, 0, 0, \frac{284}{5805}\sqrt{58}e^{12}, \frac{71}{5805}\sqrt{78}e^{13},$ $\frac{71}{5805}\sqrt{2274}e^{14} + \frac{781}{5805}\sqrt{6}e^{23}, \frac{71}{5805}\sqrt{3346}e^{15}, \frac{71}{1935}\sqrt{422}e^{24} + \frac{142}{5805}\sqrt{101}e^{36}$	$(-\frac{71}{387}, -\frac{142}{5805}, \frac{1846}{5805}, \frac{923}{1935}, -\frac{1207}{5805}, \frac{781}{5805}, \frac{568}{1935}, -\frac{2272}{5805}, \frac{2627}{5805})$ $+ \frac{71}{1161}\sqrt{390}e^4 \otimes e_8$	{2347, 358}
952:98	$0, 0, 0, 0, \frac{427}{5973}\sqrt{6}e^{12}, \frac{61}{5973}\sqrt{2470}e^{13},$ $\frac{122}{5973}\sqrt{562}e^{14} + \frac{61}{5973}\sqrt{3170}e^{23}, \frac{122}{5973}\sqrt{977}e^{15}, \frac{61}{5973}\sqrt{626}e^{24} + \frac{61}{5973}\sqrt{3134}e^{36}$	$(-\frac{976}{5973}, -\frac{61}{1991}, \frac{1586}{5973}, \frac{793}{1991}, -\frac{1159}{5973}, \frac{610}{5973}, \frac{1403}{5973}, -\frac{2135}{5973}, \frac{732}{1991})$ $+ \frac{61}{1991}\sqrt{1118}e^3 \otimes e_8$	{1689, 458}
952:99	$0, 0, 0, 0, \frac{31}{1317}\sqrt{115}e^{12}, \frac{31}{1317}\sqrt{734}e^{13}, \frac{31}{439}\sqrt{47}e^{14} + \frac{31}{1317}\sqrt{354}e^{23},$ $\frac{62}{1317}\sqrt{190}e^{23}, \frac{341}{1317}e^{16} + \frac{62}{1317}\sqrt{154}e^{34}$	$(\frac{62}{1317}, -\frac{93}{439}, \frac{155}{439}, \frac{124}{1317}, -\frac{217}{1317}, \frac{527}{1317}, \frac{62}{439}, -\frac{496}{1317}, \frac{589}{1317})$ $+ \frac{31}{1317}\sqrt{2193}e^3 \otimes e_8$	{12359, 278}
952:99	$0, 0, 0, 0, \frac{82}{4869}\sqrt{579}e^{12}, \frac{164}{4869}\sqrt{127}e^{13},$ $\frac{82}{4869}\sqrt{1011}e^{14} + \frac{41}{4869}\sqrt{4386}e^{23}, \frac{82}{4869}\sqrt{1177}e^{25}, \frac{41}{4869}\sqrt{3494}e^{16} + \frac{697}{1623}\sqrt{2}e^{34}$	$(\frac{41}{1623}, -\frac{779}{4869}, \frac{1148}{4869}, \frac{82}{1623}, -\frac{656}{4869}, \frac{1271}{4869}, \frac{41}{541}, -\frac{1435}{4869}, \frac{1394}{4869})$ $+ \frac{41}{1623}\sqrt{962}e^4 \otimes e_8$	{1236789, 1578}
952:99	$0, 0, 0, 0, \frac{15}{1747}\sqrt{3882}e^{12}, \frac{15}{1747}\sqrt{1662}e^{13},$ $\frac{45}{1747}\sqrt{282}e^{14} + \frac{30}{1747}\sqrt{321}e^{23}, \frac{15}{1747}\sqrt{3066}e^{25}, \frac{30}{1747}\sqrt{438}e^{16} + \frac{15}{1747}\sqrt{3882}e^{34}$	$(\frac{15}{1747}, \frac{375}{1747}, -\frac{330}{1747}, \frac{30}{1747}, \frac{390}{1747}, -\frac{315}{1747}, \frac{45}{1747}, \frac{765}{1747}, -\frac{300}{1747})$ $+ \frac{15}{1747}\sqrt{8958}e^2 \otimes e_9$	{2345, 469}
952:100	$0, 0, 0, 0, \frac{9}{460}\sqrt{33}e^{12}, \frac{9}{460}\sqrt{870}e^{13}, \frac{9}{460}\sqrt{33}e^{14} + \frac{9}{230}\sqrt{21}e^{23},$ $\frac{9}{115}\sqrt{69}e^{23}, \frac{9}{230}\sqrt{159}e^{24} + \frac{9}{115}\sqrt{69}e^{36}$	$(-\frac{81}{460}, -\frac{9}{184}, \frac{117}{460}, \frac{351}{920}, -\frac{9}{40}, \frac{9}{115}, \frac{189}{920}, -\frac{63}{230}, \frac{153}{460})$ $+ \frac{9}{460}\sqrt{2310}e^3 \otimes e_8$	{2356, 3467}
952:100	$0, 0, 0, 0, \frac{128}{2679}\sqrt{29}e^{12}, \frac{448}{2679}\sqrt{2}e^{13},$ $\frac{64}{2679}\sqrt{1003}e^{14} + \frac{128}{2679}\sqrt{185}e^{23}, \frac{64}{2679}\sqrt{997}e^{25}, \frac{128}{2679}\sqrt{107}e^{24} + \frac{64}{2679}\sqrt{251}e^{36}$	$(-\frac{544}{2679}, -\frac{128}{2679}, \frac{832}{2679}, \frac{416}{893}, -\frac{224}{893}, \frac{96}{893}, \frac{704}{2679}, -\frac{800}{2679}, \frac{1120}{2679})$ $+ \frac{64}{2679}\sqrt{2238}e^4 \otimes e_8$	{1349, 3568}
952:102	$0, 0, 0, 0, -\frac{4}{37}\sqrt{33}e^{12}, \frac{6}{37}\sqrt{26}e^{13}, \frac{8}{37}\sqrt{15}e^{24},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{12}{37}\sqrt{3}e^{16} + \frac{2}{37}\sqrt{6}e^{34}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{1234589, 14678, 23469, 457, 1234589, 14678, 23469, 457}
952:102	$0, 0, 0, 0, \frac{4}{37}\sqrt{33}e^{12}, \frac{6}{37}\sqrt{26}e^{13}, \frac{8}{37}\sqrt{15}e^{24},$ $\frac{4}{37}\sqrt{30}e^{14} + \frac{6}{37}\sqrt{2}e^{25}, \frac{12}{37}\sqrt{3}e^{16} + \frac{2}{37}\sqrt{6}e^{34}$	$(-\frac{2}{37}, -\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^3 \otimes e_7$	{1234589, 14678, 23469, 457, 1234589, 14678, 23469, 457}
952:102	$0, 0, 0, 0, -\frac{1}{19}\sqrt{51}e^{12}, \frac{2}{19}\sqrt{3}e^{13}, \frac{1}{19}\sqrt{3}e^{24},$ $\frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}, \frac{1}{19}\sqrt{21}e^{16} + \frac{1}{19}\sqrt{51}e^{34}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_9$	{123468, 145789, 2345, 4679, 123468, 145789, 2345, 4679}
952:102	$0, 0, 0, 0, \frac{1}{19}\sqrt{51}e^{12}, \frac{2}{19}\sqrt{3}e^{13}, \frac{1}{19}\sqrt{3}e^{24},$ $\frac{1}{19}\sqrt{51}e^{14} + \frac{3}{19}\sqrt{6}e^{25}, \frac{1}{19}\sqrt{21}e^{16} + \frac{1}{19}\sqrt{51}e^{34}$	$(\frac{1}{19}, \frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_9$	{123468, 145789, 2345, 4679, 123468, 145789, 2345, 4679}
952:104	$0, 0, 0, 0, \frac{140}{661}\sqrt{7}e^{12}, \frac{14}{661}\sqrt{254}e^{13}, \frac{28}{661}\sqrt{246}e^{14},$ $\frac{14}{661}\sqrt{942}e^{25} + \frac{28}{661}\sqrt{142}e^{34}, \frac{28}{661}\sqrt{143}e^{16} + \frac{14}{661}\sqrt{386}e^{24}$	$(-\frac{126}{661}, \frac{154}{661}, \frac{294}{661}, -\frac{112}{661}, \frac{28}{661}, \frac{168}{661}, -\frac{238}{661}, \frac{182}{661}, \frac{42}{661})$ $+ \frac{14}{661}\sqrt{2290}e^2 \otimes e_7$	{1578, 2359}
952:104	$0, 0, 0, 0, \frac{74}{2729}\sqrt{205}e^{12}, \frac{1776}{2729}e^{13}, \frac{148}{2729}\sqrt{161}e^{14},$ $\frac{74}{2729}\sqrt{42}e^{25} + \frac{74}{2729}\sqrt{562}e^{34}, \frac{74}{2729}\sqrt{83}e^{16} + \frac{74}{2729}\sqrt{219}e^{24}$	$(-\frac{629}{2729}, \frac{851}{2729}, \frac{1591}{2729}, -\frac{518}{2729}, \frac{222}{2729}, \frac{962}{2729}, -\frac{1147}{2729}, \frac{1073}{2729}, \frac{333}{2729})$ $+ \frac{148}{2729}\sqrt{565}e^3 \otimes e_7$	{123459, 12567, 35689, 4578}
952:104	$0, 0, 0, 0, \frac{74}{2729}\sqrt{205}e^{12}, \frac{1776}{2729}e^{13}, \frac{148}{2729}\sqrt{161}e^{14},$ $\frac{74}{2729}\sqrt{42}e^{25} + \frac{74}{2729}\sqrt{562}e^{34}, \frac{74}{2729}\sqrt{83}e^{16} + \frac{74}{2729}\sqrt{219}e^{24}$	$(-\frac{629}{2729}, \frac{851}{2729}, \frac{1591}{2729}, -\frac{518}{2729}, \frac{222}{2729}, \frac{962}{2729}, -\frac{1147}{2729}, \frac{1073}{2729}, \frac{333}{2729})$ $- \frac{148}{2729}\sqrt{565}e^3 \otimes e_7$	{123459, 12567, 35689, 4578}
952:105	$0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{2}{3}e^{14}, \frac{1}{9}\sqrt{42}e^{25} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{1}{9}\sqrt{6}e^{24} + \frac{2}{9}\sqrt{3}e^{36}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{10}e^2 \otimes e_7$	{123468, 1578, 2359, 4679}
952:105	$0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{2}{3}e^{14}, \frac{1}{9}\sqrt{42}e^{25} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{1}{9}\sqrt{6}e^{24} + \frac{2}{9}\sqrt{3}e^{36}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $- \frac{1}{3}\sqrt{10}e^2 \otimes e_7$	{123468, 1578, 2359, 4679}
952:106	$0, 0, 0, 0, \frac{4}{101}\sqrt{55}e^{12}, \frac{10}{101}\sqrt{31}e^{13}, \frac{2}{101}\sqrt{1070}e^{24},$ $\frac{2}{101}\sqrt{885}e^{15} + \frac{10}{101}\sqrt{37}e^{34}, \frac{4}{101}\sqrt{5}e^{14} + \frac{2}{101}\sqrt{110}e^{36}$	$(\frac{25}{101}, -\frac{35}{101}, \frac{5}{101}, \frac{10}{101}, -\frac{10}{101}, \frac{30}{101}, -\frac{25}{101}, \frac{15}{101}, \frac{35}{101})$ $+ \frac{2}{101}\sqrt{2110}e^1 \otimes e_7$	{1359, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:106	$0, 0, 0, 0, \frac{116}{2501}\sqrt{123}e^{12}, \frac{58}{2501}\sqrt{35}e^{13}, \frac{116}{2501}\sqrt{205}e^{24},$ $\frac{58}{2501}\sqrt{281}e^{15} + \frac{174}{2501}\sqrt{69}e^{34}, \frac{58}{2501}\sqrt{170}e^{14} + \frac{116}{2501}\sqrt{246}e^{36}$	$(-\frac{551}{2501}, \frac{29}{61}, \frac{29}{2501}, \frac{58}{2501}, \frac{638}{2501}, -\frac{522}{2501}, \frac{1247}{2501}, \frac{87}{2501}, -\frac{493}{2501})$ $+ \frac{58}{2501}\sqrt{2074}e^2 \otimes e_9$	{1359, 2578}
952:107	$0, 0, 0, 0, \frac{7}{317}\sqrt{129}e^{12}, \frac{35}{317}\sqrt{14}e^{13}, \frac{56}{317}\sqrt{6}e^{24},$ $\frac{7}{317}\sqrt{102}e^{25} + \frac{21}{317}e^{34}, \frac{7}{317}\sqrt{278}e^{14} + \frac{56}{317}\sqrt{307}e^{36}$	$(\frac{63}{317}, -\frac{42}{317}, -\frac{7}{317}, -\frac{14}{317}, \frac{21}{317}, \frac{56}{317}, -\frac{56}{317}, -\frac{21}{317}, \frac{49}{317})$ $+ \frac{7}{317}\sqrt{565}e^3 \otimes e_7$	{1234589, 457}
952:107	$0, 0, 0, 0, \frac{32}{671}\sqrt{34}e^{12}, \frac{16}{671}\sqrt{970}e^{13}, \frac{64}{671}\sqrt{59}e^{24},$ $\frac{16}{671}\sqrt{78}e^{25} + \frac{32}{671}\sqrt{181}e^{34}, \frac{16}{671}\sqrt{362}e^{14} + \frac{64}{671}\sqrt{17}e^{36}$	$(\frac{304}{671}, -\frac{16}{61}, -\frac{16}{671}, -\frac{32}{671}, \frac{128}{671}, \frac{288}{671}, -\frac{208}{671}, -\frac{48}{671}, \frac{272}{671})$ $+ \frac{16}{671}\sqrt{2230}e^1 \otimes e_7$	{15689, 23567}
952:107	$0, 0, 0, 0, \frac{11}{343}\sqrt{134}e^{12}, \frac{11}{343}\sqrt{30}e^{13}, \frac{22}{343}\sqrt{34}e^{24},$ $\frac{11}{343}\sqrt{262}e^{25} + \frac{22}{343}\sqrt{59}e^{34}, \frac{11}{343}\sqrt{118}e^{14} + \frac{22}{343}\sqrt{67}e^{36}$	$(-\frac{88}{343}, \frac{11}{49}, \frac{22}{343}, \frac{44}{343}, -\frac{11}{343}, -\frac{66}{343}, \frac{121}{343}, \frac{66}{343}, -\frac{44}{343})$ $+ \frac{22}{343}\sqrt{145}e^2 \otimes e_9$	{15689, 23567}
952:108	$0, 0, 0, 0, \frac{11}{889}\sqrt{1670}e^{12}, \frac{11}{889}\sqrt{1570}e^{13}, \frac{11}{889}\sqrt{3030}e^{23},$ $\frac{22}{889}\sqrt{705}e^{14} + \frac{11}{889}\sqrt{1570}e^{25}, \frac{33}{889}\sqrt{70}e^{16} + \frac{11}{889}\sqrt{1670}e^{24}$	$(-\frac{198}{889}, \frac{11}{889}, \frac{429}{889}, \frac{22}{889}, -\frac{187}{889}, \frac{33}{127}, \frac{440}{889}, -\frac{176}{889}, \frac{33}{889})$ $+ \frac{44}{889}\sqrt{470}e^3 \otimes e_8$	{123459, 458}
952:108	$0, 0, 0, 0, \frac{98}{4453}\sqrt{129}e^{12}, \frac{49}{4453}\sqrt{598}e^{13}, \frac{49}{4453}\sqrt{3746}e^{23},$ $\frac{245}{4453}\sqrt{114}e^{14} + \frac{49}{4453}\sqrt{922}e^{25}, \frac{392}{4453}\sqrt{42}e^{16} + \frac{98}{4453}\sqrt{631}e^{24}$	$(\frac{1127}{4453}, \frac{245}{4453}, -\frac{1519}{4453}, \frac{490}{4453}, \frac{1372}{4453}, -\frac{392}{4453}, -\frac{1274}{4453}, \frac{1617}{4453}, \frac{735}{4453})$ $+ \frac{980}{4453}\sqrt{19}e^1 \otimes e_7$	{12349, 1456}
952:109	$0, 0, 0, 0, -\frac{51}{721}\sqrt{59}e^{12}, \frac{17}{721}\sqrt{419}e^{13}, \frac{204}{721}\sqrt{7}e^{23},$ $\frac{17}{721}\sqrt{195}e^{15} + \frac{17}{721}\sqrt{29}e^{24}, \frac{17}{721}\sqrt{1073}e^{14} + \frac{17}{721}\sqrt{661}e^{36}$	$(\frac{85}{721}, -\frac{204}{721}, \frac{85}{721}, \frac{170}{721}, -\frac{17}{103}, \frac{170}{721}, -\frac{17}{103}, -\frac{34}{721}, \frac{255}{721})$ $+ \frac{136}{721}\sqrt{21}e^4 \otimes e_7$	{125789, 13679, 2678, 357, 125789, 13679, 2678, 357}
952:109	$0, 0, 0, 0, \frac{51}{721}\sqrt{59}e^{12}, \frac{17}{721}\sqrt{419}e^{13}, \frac{204}{721}\sqrt{7}e^{23},$ $\frac{17}{721}\sqrt{195}e^{15} + \frac{17}{721}\sqrt{29}e^{24}, \frac{17}{721}\sqrt{1073}e^{14} + \frac{17}{721}\sqrt{661}e^{36}$	$(\frac{85}{721}, -\frac{204}{721}, \frac{85}{721}, \frac{170}{721}, -\frac{17}{103}, \frac{170}{721}, -\frac{17}{103}, -\frac{34}{721}, \frac{255}{721})$ $+ \frac{136}{721}\sqrt{21}e^4 \otimes e_7$	{125789, 13679, 2678, 357, 125789, 13679, 2678, 357}
952:109	$0, 0, 0, 0, -\frac{3}{283}\sqrt{141}e^{12}, \frac{15}{283}\sqrt{39}e^{13}, \frac{6}{283}\sqrt{93}e^{23},$ $\frac{3}{283}\sqrt{231}e^{15} + \frac{15}{283}\sqrt{39}e^{24}, \frac{3}{283}\sqrt{105}e^{14} + \frac{3}{283}\sqrt{1005}e^{36}$	$(\frac{15}{283}, -\frac{42}{283}, \frac{15}{283}, \frac{30}{283}, -\frac{27}{283}, \frac{30}{283}, -\frac{27}{283}, -\frac{12}{283}, \frac{45}{283})$ $+ \frac{12}{283}\sqrt{93}e^3 \otimes e_8$	{1234579, 146789, 23467, 4578, 1234579, 146789, 23467, 4578}
952:109	$0, 0, 0, 0, \frac{3}{283}\sqrt{141}e^{12}, \frac{15}{283}\sqrt{39}e^{13}, \frac{6}{283}\sqrt{93}e^{23},$ $\frac{3}{283}\sqrt{231}e^{15} + \frac{15}{283}\sqrt{39}e^{24}, \frac{3}{283}\sqrt{105}e^{14} + \frac{3}{283}\sqrt{1005}e^{36}$	$(\frac{15}{283}, -\frac{42}{283}, \frac{15}{283}, \frac{30}{283}, -\frac{27}{283}, \frac{30}{283}, -\frac{27}{283}, -\frac{12}{283}, \frac{45}{283})$ $+ \frac{12}{283}\sqrt{93}e^3 \otimes e_8$	{1234579, 146789, 23467, 4578, 1234579, 146789, 23467, 4578}
952:109	$0, 0, 0, 0, -\frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{255}e^{13}, \frac{30}{173}\sqrt{10}e^{23},$ $\frac{5}{173}\sqrt{15}e^{15} + \frac{5}{173}e^{24}, \frac{5}{173}\sqrt{365}e^{14} + \frac{5}{173}\sqrt{335}e^{36}$	$(-\frac{15}{173}, \frac{80}{173}, -\frac{15}{173}, -\frac{30}{173}, \frac{65}{173}, -\frac{30}{173}, \frac{65}{173}, \frac{50}{173}, -\frac{45}{173})$ $+ \frac{60}{173}\sqrt{10}e^2 \otimes e_9$	{12346, 1247, 34789, 4689, 12346, 1247, 34789, 4689}
952:109	$0, 0, 0, 0, \frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{255}e^{13}, \frac{30}{173}\sqrt{10}e^{23},$ $\frac{5}{173}\sqrt{15}e^{15} + \frac{5}{173}e^{24}, \frac{5}{173}\sqrt{365}e^{14} + \frac{5}{173}\sqrt{335}e^{36}$	$(-\frac{15}{173}, \frac{80}{173}, -\frac{15}{173}, -\frac{30}{173}, \frac{65}{173}, -\frac{30}{173}, \frac{65}{173}, \frac{50}{173}, -\frac{45}{173})$ $+ \frac{60}{173}\sqrt{10}e^2 \otimes e_9$	{12346, 1247, 34789, 4689, 12346, 1247, 34789, 4689}
952:111	$0, 0, 0, 0, \frac{41}{4439}\sqrt{674}e^{12}, \frac{41}{4439}\sqrt{1774}e^{13}, \frac{82}{4439}\sqrt{390}e^{23},$ $\frac{41}{4439}\sqrt{2670}e^{14} + \frac{82}{4439}\sqrt{610}e^{25}, \frac{164}{4439}\sqrt{167}e^{24} + \frac{123}{4439}\sqrt{370}e^{36}$	$(-\frac{1230}{4439}, \frac{328}{4439}, \frac{1107}{4439}, \frac{656}{4439}, -\frac{902}{4439}, -\frac{123}{4439}, \frac{1435}{4439}, -\frac{574}{4439}, \frac{984}{4439})$ $+ \frac{164}{4439}\sqrt{473}e^3 \otimes e_8$	{123459, 458}
952:111	$0, 0, 0, 0, \frac{17}{3431}\sqrt{3498}e^{12}, \frac{17}{3431}\sqrt{2418}e^{13}, \frac{68}{3431}\sqrt{366}e^{23},$ $\frac{17}{3431}\sqrt{4974}e^{14} + \frac{68}{3431}\sqrt{269}e^{25}, \frac{17}{3431}\sqrt{15}e^{24} + \frac{357}{3431}\sqrt{6}e^{36}$	$(\frac{510}{3431}, -\frac{68}{3431}, -\frac{357}{3431}, -\frac{136}{3431}, \frac{442}{3431}, \frac{153}{3431}, -\frac{425}{3431}, \frac{374}{3431}, -\frac{204}{3431})$ $+ \frac{136}{3431}\sqrt{106}e^4 \otimes e_7$	{125789, 357}
952:111	$0, 0, 0, 0, \frac{14}{527}\sqrt{258}e^{12}, \frac{28}{527}\sqrt{10}e^{13}, \frac{28}{527}\sqrt{218}e^{23},$ $\frac{14}{527}\sqrt{858}e^{14} + \frac{28}{527}\sqrt{82}e^{25}, \frac{28}{527}\sqrt{109}e^{24} + \frac{14}{527}\sqrt{42}e^{36}$	$(\frac{14}{31}, -\frac{14}{527}, -\frac{140}{527}, -\frac{28}{527}, \frac{224}{527}, \frac{98}{527}, -\frac{154}{527}, \frac{210}{527}, -\frac{42}{527})$ $+ \frac{14}{527}\sqrt{1798}e^1 \otimes e_7$	{1456, 245789}
952:112	$0, 0, 0, 0, -\frac{13}{295}\sqrt{82}e^{12}, \frac{13}{295}\sqrt{82}e^{13}, \frac{39}{295}\sqrt{22}e^{23},$ $\frac{26}{295}\sqrt{37}e^{15} + \frac{26}{295}\sqrt{21}e^{34}, \frac{26}{295}\sqrt{37}e^{16} + \frac{26}{295}\sqrt{21}e^{24}$	$(\frac{13}{59}, -\frac{52}{295}, -\frac{52}{295}, \frac{26}{59}, \frac{13}{295}, \frac{13}{295}, -\frac{104}{295}, \frac{78}{295}, \frac{78}{295})$ $+ \frac{13}{295}\sqrt{498}e^1 \otimes e_7$	{123489, 1456, 2578, 123489, 1456, 2578}
952:112	$0, 0, 0, 0, \frac{13}{295}\sqrt{82}e^{12}, \frac{13}{295}\sqrt{82}e^{13}, \frac{39}{295}\sqrt{22}e^{23},$ $\frac{26}{295}\sqrt{37}e^{15} + \frac{26}{295}\sqrt{21}e^{34}, \frac{26}{295}\sqrt{37}e^{16} + \frac{26}{295}\sqrt{21}e^{24}$	$(\frac{13}{59}, -\frac{52}{295}, -\frac{52}{295}, \frac{26}{59}, \frac{13}{295}, \frac{13}{295}, -\frac{104}{295}, \frac{78}{295}, \frac{78}{295})$ $+ \frac{13}{295}\sqrt{498}e^1 \otimes e_7$	{123489, 1456, 2578, 123489, 1456, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:112	$0, 0, 0, 0, -\frac{17}{575}\sqrt{166e^{12}}, \frac{17}{575}\sqrt{166e^{13}}, \frac{34}{575}\sqrt{141e^{23}},$ $\frac{17}{575}\sqrt{22e^{15}} + \frac{17}{575}\sqrt{470e^{34}}, \frac{17}{575}\sqrt{22e^{16}} + \frac{17}{575}\sqrt{470e^{24}}$	$(\frac{34}{115}, -\frac{119}{575}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, \frac{51}{575}, -\frac{238}{575}, \frac{221}{575}, \frac{221}{575})$ $+ \frac{102}{575}\sqrt{53e^4} \otimes e_7$	{123456, 12579, 1489, 234, 2679, 45689, 123456, 12579, 1489, 234, 2679, 45689}
952:112	$0, 0, 0, 0, \frac{17}{575}\sqrt{166e^{12}}, \frac{17}{575}\sqrt{166e^{13}}, \frac{34}{575}\sqrt{141e^{23}},$ $\frac{17}{575}\sqrt{22e^{15}} + \frac{17}{575}\sqrt{470e^{34}}, \frac{17}{575}\sqrt{22e^{16}} + \frac{17}{575}\sqrt{470e^{24}}$	$(\frac{34}{115}, -\frac{119}{575}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, \frac{51}{575}, -\frac{238}{575}, \frac{221}{575}, \frac{221}{575})$ $+ \frac{102}{575}\sqrt{53e^4} \otimes e_7$	{123456, 12579, 13678, 1489, 234, 2679, 3578, 45689, 123456, 12579, 13678, 1489, 234, 2679, 3578, 45689}
952:112	$0, 0, 0, 0, -\frac{17}{575}\sqrt{166e^{12}}, \frac{17}{575}\sqrt{166e^{13}}, \frac{34}{575}\sqrt{141e^{23}},$ $\frac{17}{575}\sqrt{22e^{15}} + \frac{17}{575}\sqrt{470e^{34}}, \frac{17}{575}\sqrt{22e^{16}} + \frac{17}{575}\sqrt{470e^{24}}$	$(\frac{34}{115}, -\frac{119}{575}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, \frac{51}{575}, -\frac{238}{575}, \frac{221}{575}, \frac{221}{575})$ $- \frac{102}{575}\sqrt{53e^4} \otimes e_7$	{123456, 12579, 1489, 234, 2679, 45689, 123456, 12579, 1489, 234, 2679, 45689}
952:113	$0, 0, 0, 0, \frac{31}{1393}\sqrt{285e^{12}}, \frac{31}{1393}\sqrt{622e^{13}}, \frac{31}{1393}\sqrt{830e^{23}},$ $\frac{62}{1393}\sqrt{29e^{25}} + \frac{31}{1393}\sqrt{195e^{34}}, \frac{31}{1393}\sqrt{1011e^{16}} + \frac{62}{1393}\sqrt{133e^{24}}$	$(\frac{62}{199}, -\frac{124}{1393}, -\frac{403}{1393}, \frac{589}{1393}, \frac{310}{1393}, \frac{31}{1393}, -\frac{527}{1393}, \frac{186}{1393}, \frac{465}{1393})$ $+ \frac{31}{1393}\sqrt{2335e^1} \otimes e_7$	{123489, 3679}
952:114	$0, 0, 0, 0, \frac{34}{449}\sqrt{42e^{12}}, \frac{34}{449}\sqrt{42e^{13}}, \frac{51}{449}\sqrt{46e^{23}},$ $\frac{17}{449}\sqrt{334e^{25}} + \frac{17}{449}\sqrt{330e^{34}}, \frac{17}{449}\sqrt{330e^{24}} + \frac{17}{449}\sqrt{334e^{36}}$	$(\frac{204}{449}, -\frac{85}{449}, -\frac{85}{449}, \frac{119}{449}, \frac{119}{449}, \frac{119}{449}, -\frac{170}{449}, \frac{34}{449}, \frac{34}{449})$ $+ \frac{17}{449}\sqrt{826e^4} \otimes e_7$	{1489, 234}
952:114	$0, 0, 0, 0, \frac{1}{23}\sqrt{230e^{12}}, \frac{1}{23}\sqrt{230e^{13}}, \frac{1}{23}\sqrt{230e^{23}},$ $\frac{1}{23}\sqrt{46e^{25}} + \frac{2}{23}\sqrt{23e^{34}}, \frac{2}{23}\sqrt{23e^{24}} + \frac{1}{23}\sqrt{46e^{36}}$	$(\frac{13}{23}, -\frac{5}{23}, -\frac{5}{23}, \frac{8}{23}, \frac{8}{23}, \frac{8}{23}, -\frac{10}{23}, \frac{3}{23}, \frac{3}{23})$ $+ \frac{1}{23}\sqrt{874e^1} \otimes e_7$	{123489, 15689}
952:115	$0, 0, 0, 0, \frac{3}{25}\sqrt{14e^{12}}, \frac{2}{25}\sqrt{15e^{13}}, \frac{2}{25}\sqrt{41e^{14}},$ $\frac{1}{25}\sqrt{158e^{15}} + \frac{1}{25}\sqrt{190e^{23}}, \frac{1}{25}\sqrt{78e^{16}} + \frac{4}{25}\sqrt{6e^{24}}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{2}{25}\sqrt{58e^3} \otimes e_7$	{125678, 457}
952:115	$0, 0, 0, 0, \frac{98}{3397}\sqrt{321e^{12}}, \frac{98}{3397}\sqrt{415e^{13}}, \frac{49}{3397}\sqrt{2746e^{14}},$ $\frac{49}{3397}\sqrt{514e^{15}} + \frac{49}{3397}\sqrt{2410e^{23}}, \frac{588}{3397}\sqrt{7e^{16}} + \frac{49}{3397}\sqrt{454e^{24}}$	$(\frac{49}{3397}, \frac{1323}{3397}, \frac{98}{3397}, -\frac{1127}{3397}, \frac{1372}{3397}, \frac{147}{3397}, -\frac{1078}{3397}, \frac{1421}{3397}, \frac{196}{3397})$ $+ \frac{98}{3397}\sqrt{1462e^2} \otimes e_7$	{2359, 34789}
952:116	$0, 0, 0, 0, \frac{18}{421}\sqrt{102e^{12}}, \frac{45}{421}\sqrt{6e^{13}}, \frac{45}{421}\sqrt{66e^{14}},$ $\frac{9}{421}\sqrt{1158e^{15}} + \frac{270}{421}\sqrt{2e^{23}}, \frac{135}{421}\sqrt{2e^{16}} + \frac{9}{421}\sqrt{1158e^{34}}$	$(-\frac{18}{421}, \frac{189}{421}, -\frac{36}{421}, -\frac{36}{421}, \frac{171}{421}, \frac{54}{421}, -\frac{54}{421}, \frac{153}{421}, -\frac{72}{421})$ $+ \frac{135}{421}\sqrt{10e^2} \otimes e_7$	{179, 2689}
952:116	$0, 0, 0, 0, \frac{3}{391}\sqrt{302e^{12}}, \frac{5}{391}\sqrt{66e^{13}}, \frac{10}{391}\sqrt{21e^{14}},$ $\frac{3}{391}\sqrt{302e^{15}} + \frac{30}{391}\sqrt{3e^{23}}, \frac{30}{391}\sqrt{2e^{16}} + \frac{4}{391}\sqrt{123e^{34}}$	$(-\frac{3}{391}, \frac{19}{391}, -\frac{6}{391}, -\frac{6}{391}, \frac{16}{391}, -\frac{9}{391}, -\frac{9}{391}, \frac{13}{391}, -\frac{12}{391})$ $+ \frac{15}{391}\sqrt{10e^3} \otimes e_7$	{2478, 457}
952:116	$0, 0, 0, 0, \frac{6}{109}\sqrt{87e^{12}}, \frac{3}{109}\sqrt{429e^{13}}, \frac{3}{109}\sqrt{39e^{14}},$ $\frac{3}{109}\sqrt{543e^{15}} + \frac{9}{109}\sqrt{13e^{23}}, \frac{18}{109}\sqrt{13e^{16}} + \frac{3}{109}\sqrt{543e^{34}}$	$(\frac{6}{109}, -\frac{27}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{21}{109}, \frac{18}{109}, \frac{18}{109}, -\frac{15}{109}, \frac{24}{109})$ $+ \frac{9}{109}\sqrt{65e^4} \otimes e_8$	{1236789, 23589}
952:117	$0, 0, 0, 0, \frac{3}{145}\sqrt{290e^{12}}, \frac{3}{145}\sqrt{174e^{13}}, \frac{2}{145}\sqrt{1334e^{14}},$ $\frac{2}{145}\sqrt{899e^{15}} + \frac{1}{145}\sqrt{4582e^{23}}, \frac{1}{145}\sqrt{2958e^{24}} + \frac{1}{145}\sqrt{2262e^{36}}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{145}\sqrt{7714e^3} \otimes e_7$	{1679, 457}
952:117	$0, 0, 0, 0, \frac{53}{4421}\sqrt{1898e^{12}}, \frac{212}{4421}\sqrt{101e^{13}}, \frac{106}{4421}\sqrt{770e^{14}},$ $\frac{106}{4421}\sqrt{319e^{15}} + \frac{265}{4421}\sqrt{142e^{23}}, \frac{212}{4421}\sqrt{115e^{24}} + \frac{53}{4421}\sqrt{1410e^{36}}$	$(\frac{159}{4421}, -\frac{1166}{4421}, \frac{318}{4421}, \frac{1961}{4421}, -\frac{1007}{4421}, \frac{477}{4421}, \frac{2120}{4421}, -\frac{848}{4421}, \frac{795}{4421})$ $+ \frac{53}{4421}\sqrt{7682e^4} \otimes e_8$	{2347, 358}
952:118	$0, 0, 0, 0, \frac{7}{631}\sqrt{57e^{12}}, \frac{21}{631}\sqrt{91e^{13}}, \frac{210}{631}e^{24},$ $\frac{63}{631}\sqrt{3e^{15}} + \frac{14}{631}\sqrt{127e^{23}}, \frac{631}{631}\sqrt{97e^{14}} + \frac{631}{631}\sqrt{881e^{36}}$	$(\frac{35}{1262}, -\frac{84}{631}, \frac{35}{631}, \frac{70}{631}, -\frac{133}{1262}, \frac{105}{1262}, -\frac{14}{631}, -\frac{49}{631}, \frac{175}{1262})$ $+ \frac{7}{631}\sqrt{1095e^3} \otimes e_7$	{146789, 4578}
952:118	$0, 0, 0, 0, \frac{1}{7}\sqrt{15e^{12}}, \frac{1}{7}\sqrt{15e^{13}}, \frac{1}{7}\sqrt{3e^{24}},$ $\frac{1}{7}\sqrt{3e^{15}} + \frac{1}{7}\sqrt{33e^{23}}, \frac{1}{7}\sqrt{33e^{14}} + \frac{1}{7}\sqrt{21e^{36}}$	$(\frac{1}{14}, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{3}{14}, \frac{3}{14}, 0, -\frac{1}{7}, \frac{5}{14})$ $+ \frac{1}{7}\sqrt{39e^4} \otimes e_8$	{12589, 268}
952:118	$0, 0, 0, 0, \frac{4}{53}\sqrt{6e^{12}}, \frac{4}{53}\sqrt{6e^{13}}, \frac{12}{53}e^{24}, \frac{12}{53}e^{15} + \frac{2}{53}\sqrt{47e^{23}},$ $\frac{8}{53}\sqrt{2e^{14}} + \frac{2}{53}\sqrt{29e^{36}}$	$(\frac{1}{53}, -\frac{5}{53}, \frac{2}{53}, \frac{4}{53}, -\frac{4}{53}, \frac{3}{53}, -\frac{1}{53}, -\frac{3}{53}, \frac{5}{53})$ $+ \frac{6}{53}\sqrt{5e^1} \otimes e_7$	{123489, 3467}
952:118	$0, 0, 0, 0, \frac{28}{137}\sqrt{6e^{12}}, \frac{14}{137}\sqrt{22e^{13}}, \frac{14}{137}\sqrt{13e^{24}},$ $\frac{14}{137}\sqrt{10e^{15}} + \frac{14}{137}\sqrt{37e^{23}}, \frac{14}{137}\sqrt{37e^{14}} + \frac{14}{137}\sqrt{21e^{36}}$	$(-\frac{7}{137}, \frac{63}{137}, -\frac{14}{137}, -\frac{28}{137}, \frac{56}{137}, -\frac{21}{137}, \frac{35}{137}, \frac{49}{137}, -\frac{35}{137})$ $+ \frac{14}{137}\sqrt{115e^2} \otimes e_9$	{12346, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:119	$0, 0, 0, 0, \frac{17}{1381}\sqrt{2918}e^{12}, \frac{153}{1381}\sqrt{34}e^{13}, \frac{34}{1381}\sqrt{501}e^{24},$ $\frac{255}{1381}\sqrt{10}e^{15} + \frac{34}{1381}\sqrt{438}e^{23}, \frac{34}{1381}\sqrt{626}e^{16} + \frac{34}{1381}\sqrt{521}e^{34}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{51}{1381}\sqrt{278}e^3 \otimes e_7$	{1467, 457}
952:119	$0, 0, 0, 0, \frac{26}{1471}\sqrt{274}e^{12}, \frac{26}{1471}\sqrt{546}e^{13}, \frac{13}{1471}\sqrt{2046}e^{24},$ $\frac{39}{1471}\sqrt{46}e^{15} + \frac{13}{1471}\sqrt{138}e^{23}, \frac{13}{1471}\sqrt{2138}e^{16} + \frac{39}{1471}\sqrt{218}e^{34}$	$(\frac{65}{1471}, -\frac{234}{1471}, \frac{130}{1471}, \frac{130}{1471}, -\frac{169}{1471}, \frac{195}{1471}, -\frac{104}{1471}, -\frac{104}{1471}, \frac{260}{1471})$ $+ \frac{13}{1471}\sqrt{2598}e^1 \otimes e_7$	{1234589, 345679}
952:119	$0, 0, 0, 0, \frac{11}{169}\sqrt{46}e^{12}, \frac{11}{169}\sqrt{30}e^{13}, \frac{33}{169}\sqrt{6}e^{24},$ $\frac{11}{169}\sqrt{30}e^{15} + \frac{22}{169}\sqrt{21}e^{23}, \frac{22}{169}\sqrt{23}e^{16} + \frac{11}{169}\sqrt{46}e^{34}$	$(-\frac{11}{169}, \frac{77}{169}, -\frac{22}{169}, -\frac{22}{169}, \frac{66}{169}, -\frac{33}{169}, \frac{55}{169}, \frac{55}{169}, -\frac{44}{169})$ $+ \frac{11}{169}\sqrt{282}e^2 \otimes e_9$	{12346, 2345}
952:119	$0, 0, 0, 0, \frac{17}{1381}\sqrt{2086}e^{12}, \frac{255}{1381}\sqrt{10}e^{13}, \frac{17}{1381}\sqrt{498}e^{24},$ $\frac{153}{1381}\sqrt{34}e^{15} + \frac{85}{1381}\sqrt{30}e^{23}, \frac{850}{1381}e^{16} + \frac{34}{1381}\sqrt{730}e^{34}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{51}{1381}\sqrt{278}e^4 \otimes e_8$	{123689, 23589}
952:120	$0, 0, 0, 0, \frac{6}{35}\sqrt{7}e^{12}, \frac{1}{35}\sqrt{21}e^{13}, \frac{1}{35}\sqrt{266}e^{34},$ $\frac{1}{35}\sqrt{217}e^{15} + \frac{1}{35}\sqrt{182}e^{23}, \frac{1}{35}\sqrt{42}e^{16} + \frac{1}{35}\sqrt{105}e^{24}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{35}\sqrt{427}e^1 \otimes e_7$	{13456, 23578}
952:121	$0, 0, 0, 0, \frac{10}{41}\sqrt{3}e^{12}, \frac{1}{41}\sqrt{465}e^{13}, \frac{1}{41}\sqrt{255}e^{34},$ $\frac{5}{41}\sqrt{3}e^{15} + \frac{7}{41}\sqrt{15}e^{23}, \frac{7}{41}\sqrt{15}e^{14} + \frac{6}{41}\sqrt{15}e^{36}$	$(\frac{2}{41}, -\frac{11}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{9}{41}, \frac{6}{41}, \frac{12}{41}, -\frac{7}{41}, \frac{10}{41})$ $+ \frac{15}{41}\sqrt{5}e^4 \otimes e_8$	{136789, 3578}
952:121	$0, 0, 0, 0, \frac{45}{191}\sqrt{2}e^{12}, \frac{1}{191}\sqrt{210}e^{13}, \frac{11}{191}\sqrt{30}e^{34},$ $\frac{45}{191}\sqrt{2}e^{15} + \frac{6}{191}\sqrt{115}e^{23}, \frac{1}{191}\sqrt{2490}e^{14} + \frac{6}{191}\sqrt{35}e^{36}$	$(-\frac{3}{191}, \frac{29}{191}, -\frac{6}{191}, -\frac{12}{191}, \frac{26}{191}, -\frac{9}{191}, -\frac{18}{191}, \frac{23}{191}, -\frac{15}{191})$ $+ \frac{15}{191}\sqrt{22}e^1 \otimes e_7$	{123489, 13459}
952:121	$0, 0, 0, 0, \frac{52}{853}\sqrt{6}e^{12}, \frac{13}{853}\sqrt{690}e^{13}, \frac{208}{853}\sqrt{6}e^{34},$ $\frac{13}{853}\sqrt{1410}e^{15} + \frac{26}{853}\sqrt{690}e^{23}, \frac{26}{853}\sqrt{690}e^{14} + \frac{39}{853}\sqrt{42}e^{36}$	$(-\frac{26}{853}, \frac{377}{853}, -\frac{52}{853}, -\frac{104}{853}, \frac{351}{853}, -\frac{78}{853}, -\frac{156}{853}, \frac{325}{853}, -\frac{130}{853})$ $+ \frac{39}{853}\sqrt{502}e^2 \otimes e_9$	{123467, 34789}
952:121	$0, 0, 0, 0, \frac{42}{227}\sqrt{19}e^{12}, \frac{7}{227}\sqrt{399}e^{13}, \frac{14}{227}\sqrt{177}e^{34},$ $\frac{21}{227}\sqrt{33}e^{15} + \frac{28}{227}\sqrt{3}e^{23}, \frac{7}{227}\sqrt{339}e^{14} + \frac{42}{227}\sqrt{2}e^{36}$	$(-\frac{7}{227}, \frac{105}{227}, -\frac{14}{227}, -\frac{28}{227}, \frac{98}{227}, \frac{21}{227}, -\frac{42}{227}, \frac{91}{227}, -\frac{35}{227})$ $+ \frac{21}{227}\sqrt{129}e^2 \otimes e_7$	{14579, 467}
952:122	$0, 0, 0, 0, \frac{55}{4949}\sqrt{58}e^{12}, \frac{55}{4949}\sqrt{2414}e^{13}, \frac{110}{4949}\sqrt{862}e^{34},$ $\frac{55}{4949}\sqrt{3534}e^{15} + \frac{165}{4949}\sqrt{190}e^{23}, \frac{55}{4949}\sqrt{2270}e^{24} + \frac{110}{4949}\sqrt{503}e^{36}$	$(\frac{165}{4949}, -\frac{1265}{4949}, \frac{330}{4949}, \frac{2090}{4949}, -\frac{1100}{4949}, \frac{495}{4949}, \frac{2420}{4949}, -\frac{935}{4949}, \frac{825}{4949})$ $+ \frac{55}{4949}\sqrt{8506}e^4 \otimes e_8$	{234, 3578}
952:122	$0, 0, 0, 0, \frac{3}{20}\sqrt{10}e^{12}, \frac{3}{20}e^{13}, \frac{1}{20}\sqrt{86}e^{34},$ $\frac{1}{20}\sqrt{79}e^{15} + \frac{1}{10}\sqrt{17}e^{23}, \frac{1}{20}\sqrt{33}e^{24} + \frac{1}{10}\sqrt{3}e^{36}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{20}\sqrt{139}e^1 \otimes e_7$	{13456, 379}
952:122	$0, 0, 0, 0, \frac{2419}{4969}\sqrt{2}e^{12}, \frac{59}{4969}\sqrt{2830}e^{13}, \frac{59}{4969}\sqrt{3934}e^{34},$ $\frac{59}{4969}\sqrt{818}e^{15} + \frac{118}{4969}\sqrt{461}e^{23}, \frac{59}{4969}\sqrt{838}e^{24} + \frac{118}{4969}\sqrt{429}e^{36}$	$(\frac{59}{4969}, \frac{1947}{4969}, \frac{118}{4969}, -\frac{1652}{4969}, \frac{2006}{4969}, \frac{177}{4969}, -\frac{1534}{4969}, \frac{2065}{4969}, \frac{295}{4969})$ $+ \frac{649}{4969}\sqrt{70}e^2 \otimes e_7$	{1289, 14579}
952:123	$0, 0, 0, 0, \frac{24}{163}\sqrt{13}e^{12}, \frac{24}{163}\sqrt{13}e^{13}, \frac{8}{163}\sqrt{174}e^{14} + \frac{4}{163}\sqrt{138}e^{23},$ $\frac{4}{163}\sqrt{642}e^{15} + \frac{4}{163}\sqrt{642}e^{16} + \frac{32}{163}\sqrt{6}e^{25}$	$(\frac{36}{163}, \frac{4}{163}, -\frac{28}{163}, -\frac{60}{163}, \frac{40}{163}, \frac{8}{163}, -\frac{24}{163}, \frac{76}{163}, \frac{44}{163})$ $+ \frac{4}{163}\sqrt{1686}e^1 \otimes e_4$	{156, 2345689}
952:123	$0, 0, 0, 0, \frac{62}{1901}\sqrt{161}e^{12}, \frac{62}{1901}\sqrt{377}e^{13}, \frac{186}{1901}\sqrt{70}e^{14} + \frac{434}{1901}e^{23},$ $\frac{1612}{1901}e^{15}, \frac{1240}{1901}e^{16} + \frac{124}{1901}\sqrt{5}e^{25}$	$(-\frac{403}{1901}, \frac{155}{1901}, \frac{713}{1901}, \frac{1271}{1901}, -\frac{248}{1901}, \frac{310}{1901}, \frac{868}{1901}, -\frac{651}{1901}, -\frac{93}{1901})$ $+ \frac{62}{1901}\sqrt{1614}e^4 \otimes e_8$	{1236789, 134569, 2568, 467}
952:123	$0, 0, 0, 0, \frac{62}{1901}\sqrt{161}e^{12}, \frac{62}{1901}\sqrt{377}e^{13}, \frac{186}{1901}\sqrt{70}e^{14} + \frac{434}{1901}e^{23},$ $\frac{1612}{1901}e^{15}, \frac{1240}{1901}e^{16} + \frac{124}{1901}\sqrt{5}e^{25}$	$(-\frac{403}{1901}, \frac{155}{1901}, \frac{713}{1901}, \frac{1271}{1901}, -\frac{248}{1901}, \frac{310}{1901}, \frac{868}{1901}, -\frac{651}{1901}, -\frac{93}{1901})$ $- \frac{62}{1901}\sqrt{1614}e^4 \otimes e_8$	{1236789, 134569, 2568, 467}
952:123	$0, 0, 0, 0, \frac{23}{937}\sqrt{259}e^{12}, \frac{46}{937}\sqrt{73}e^{13}, \frac{23}{937}\sqrt{699}e^{14} + \frac{46}{937}\sqrt{269}e^{23},$ $\frac{92}{937}\sqrt{55}e^{15}, \frac{23}{937}\sqrt{329}e^{16} + \frac{92}{937}\sqrt{43}e^{25}$	$(-\frac{161}{937}, \frac{46}{937}, \frac{253}{937}, \frac{460}{937}, -\frac{115}{937}, \frac{92}{937}, \frac{299}{937}, -\frac{276}{937}, -\frac{69}{937})$ $+ \frac{23}{937}\sqrt{1653}e^3 \otimes e_8$	{12359, 458}
952:123	$0, 0, 0, 0, \frac{23}{937}\sqrt{259}e^{12}, \frac{46}{937}\sqrt{73}e^{13}, \frac{69}{937}\sqrt{106}e^{14} + \frac{23}{937}\sqrt{577}e^{23},$ $\frac{23}{937}\sqrt{773}e^{15}, \frac{23}{937}\sqrt{329}e^{16} + \frac{23}{937}\sqrt{965}e^{25}$	$(-\frac{161}{937}, \frac{46}{937}, \frac{253}{937}, \frac{460}{937}, -\frac{115}{937}, \frac{92}{937}, \frac{299}{937}, -\frac{276}{937}, -\frac{69}{937})$ $+ \frac{23}{937}\sqrt{1653}e^4 \otimes e_9$	{124568, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:124	$0, 0, 0, 0, -\frac{22}{653}\sqrt{31}e^{12}, \frac{22}{653}\sqrt{89}e^{13}, \frac{220}{653}\sqrt{2}e^{14} + \frac{66}{653}\sqrt{31}e^{23},$ $\frac{286}{653}\sqrt{2}e^{15}, \frac{110}{653}\sqrt{10}e^{25} + \frac{88}{653}\sqrt{13}e^{36}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+ \frac{374}{653}\sqrt{2}e^3 \otimes e_8$	{12359, 1689, 2346, 458, 12359, 1689, 2346, 458}
952:124	$0, 0, 0, 0, \frac{22}{653}\sqrt{31}e^{12}, \frac{22}{653}\sqrt{89}e^{13}, \frac{220}{653}\sqrt{2}e^{14} + \frac{66}{653}\sqrt{31}e^{23},$ $\frac{286}{653}\sqrt{2}e^{15}, \frac{110}{653}\sqrt{10}e^{25} + \frac{88}{653}\sqrt{13}e^{36}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+ \frac{374}{653}\sqrt{2}e^3 \otimes e_8$	{12359, 1689, 2346, 458, 12359, 1689, 2346, 458}
952:124	$0, 0, 0, 0, -\frac{19}{674}\sqrt{34}e^{12}, \frac{19}{674}\sqrt{398}e^{13}, \frac{114}{337}\sqrt{5}e^{14} + \frac{57}{337}e^{23},$ $\frac{114}{337}\sqrt{6}e^{15}, \frac{19}{674}\sqrt{218}e^{25} + \frac{19}{674}\sqrt{214}e^{36}$	$(-\frac{95}{337}, \frac{76}{337}, \frac{76}{337}, \frac{247}{337}, -\frac{19}{337}, -\frac{19}{337}, \frac{152}{337}, -\frac{114}{337}, \frac{57}{337})$ $+ \frac{19}{337}\sqrt{559}e^4 \otimes e_8$	{1278, 145, 23589, 3479, 1278, 145, 23589, 3479}
952:124	$0, 0, 0, 0, \frac{19}{674}\sqrt{34}e^{12}, \frac{19}{674}\sqrt{398}e^{13}, \frac{114}{337}\sqrt{5}e^{14} + \frac{57}{337}e^{23},$ $\frac{114}{337}\sqrt{6}e^{15}, \frac{19}{674}\sqrt{218}e^{25} + \frac{19}{674}\sqrt{214}e^{36}$	$(-\frac{95}{337}, \frac{76}{337}, \frac{76}{337}, \frac{247}{337}, -\frac{19}{337}, -\frac{19}{337}, \frac{152}{337}, -\frac{114}{337}, \frac{57}{337})$ $+ \frac{19}{337}\sqrt{559}e^4 \otimes e_8$	{1278, 145, 23589, 3479, 1278, 145, 23589, 3479}
952:126	$0, 0, 0, 0, \frac{104}{1673}\sqrt{3}e^{12}, \frac{156}{1673}\sqrt{2}e^{13}, \frac{156}{1673}\sqrt{79}e^{14} + \frac{52}{1673}\sqrt{478}e^{23},$ $\frac{52}{1673}\sqrt{259}e^{25}, \frac{104}{1673}\sqrt{3}e^{15} + \frac{52}{1673}\sqrt{721}e^{36}$	$(-\frac{442}{1673}, \frac{494}{1673}, \frac{26}{1673}, \frac{962}{1673}, \frac{52}{1673}, -\frac{416}{1673}, \frac{520}{1673}, \frac{78}{239}, -\frac{390}{1673})$ $+ \frac{156}{1673}\sqrt{154}e^4 \otimes e_9$	{156789, 234567}
952:126	$0, 0, 0, 0, \frac{16}{515}\sqrt{570}e^{12}, \frac{16}{515}\sqrt{186}e^{13}, \frac{16}{515}\sqrt{483}e^{14} + \frac{32}{515}\sqrt{33}e^{23},$ $\frac{16}{515}\sqrt{231}e^{25}, \frac{256}{515}\sqrt{3}e^{15} + \frac{16}{515}\sqrt{231}e^{36}$	$(\frac{168}{515}, -\frac{88}{515}, \frac{8}{103}, -\frac{216}{515}, \frac{16}{103}, \frac{208}{515}, \frac{48}{515}, -\frac{8}{515}, \frac{248}{515})$ $+ \frac{16}{515}\sqrt{1338}e^1 \otimes e_4$	{156, 2345689}
952:126	$0, 0, 0, 0, \frac{20}{1601}\sqrt{114}e^{12}, \frac{120}{1601}\sqrt{15}e^{13},$ $\frac{60}{1601}\sqrt{139}e^{14} + \frac{20}{1601}\sqrt{1270}e^{23}, \frac{20}{1601}\sqrt{1393}e^{25}, \frac{40}{1601}\sqrt{327}e^{15} + \frac{20}{1601}\sqrt{919}e^{36}$	$(-\frac{190}{1601}, \frac{170}{1601}, -\frac{10}{1601}, \frac{350}{1601}, -\frac{20}{1601}, -\frac{200}{1601}, \frac{160}{1601}, \frac{150}{1601}, -\frac{210}{1601})$ $+ \frac{60}{1601}\sqrt{158}e^4 \otimes e_8$	{124569, 3568}
952:126	$0, 0, 0, 0, \frac{8}{185}\sqrt{6}e^{12}, \frac{12}{185}\sqrt{14}e^{13}, \frac{12}{185}\sqrt{5}e^{14} + \frac{8}{185}\sqrt{19}e^{23},$ $\frac{4}{185}\sqrt{133}e^{25}, \frac{4}{185}\sqrt{138}e^{15} + \frac{4}{185}\sqrt{133}e^{36}$	$(\frac{14}{185}, -\frac{2}{37}, \frac{2}{185}, -\frac{22}{185}, \frac{4}{185}, \frac{16}{185}, -\frac{8}{185}, -\frac{6}{185}, \frac{18}{185})$ $+ \frac{36}{185}\sqrt{2}e^3 \otimes e_8$	{123579, 4578}
952:128	$0, 0, 0, 0, \frac{3}{61}\sqrt{114}e^{12}, \frac{3}{61}\sqrt{42}e^{13}, \frac{15}{61}\sqrt{6}e^{14}, \frac{6}{61}\sqrt{66}e^{15},$ $\frac{18}{61}\sqrt{3}e^{16} + \frac{9}{61}\sqrt{14}e^{25} + \frac{6}{61}\sqrt{66}e^{34}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^3 \otimes e_8$	{128, 379}
952:128	$0, 0, 0, 0, \frac{3}{61}\sqrt{114}e^{12}, \frac{3}{61}\sqrt{42}e^{13}, \frac{3}{61}\sqrt{174}e^{14}, \frac{6}{61}\sqrt{15}e^{15},$ $\frac{18}{61}\sqrt{3}e^{16} + \frac{9}{61}\sqrt{22}e^{25} + \frac{6}{61}\sqrt{15}e^{34}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^2 \otimes e_7$	{123469, 4678}
952:128	$0, 0, 0, 0, \frac{3}{925}\sqrt{2598}e^{12}, \frac{3}{925}\sqrt{4146}e^{13}, \frac{3}{925}\sqrt{174}e^{14}, \frac{6}{925}\sqrt{1254}e^{15},$ $\frac{72}{925}\sqrt{6}e^{16} + \frac{3}{925}\sqrt{230}e^{25} + \frac{6}{925}\sqrt{1254}e^{34}$	$(\frac{6}{185}, -\frac{27}{925}, -\frac{84}{925}, \frac{12}{185}, \frac{3}{925}, -\frac{54}{925}, \frac{18}{185}, \frac{33}{925}, -\frac{24}{925})$ $+ \frac{216}{925}e^4 \otimes e_8$	{1278, 23589}
952:129	$0, 0, 0, 0, \frac{28}{867}\sqrt{123}e^{12}, \frac{182}{867}\sqrt{6}e^{13}, \frac{28}{289}\sqrt{34}e^{14}, \frac{14}{867}\sqrt{645}e^{25},$ $\frac{14}{867}\sqrt{1173}e^{15} + \frac{28}{867}\sqrt{105}e^{24} + \frac{14}{867}\sqrt{1398}e^{36}$	$(-\frac{77}{867}, \frac{203}{867}, \frac{21}{289}, -\frac{154}{867}, \frac{42}{289}, -\frac{14}{867}, -\frac{77}{289}, \frac{329}{867}, \frac{49}{867})$ $+ \frac{14}{289}\sqrt{251}e^3 \otimes e_7$	{123459, 4578}
952:129	$0, 0, 0, 0, \frac{40}{861}\sqrt{123}e^{12}, \frac{80}{861}\sqrt{15}e^{13}, \frac{60}{287}\sqrt{13}e^{14}, \frac{20}{861}\sqrt{969}e^{25},$ $\frac{20}{861}\sqrt{894}e^{15} + \frac{20}{861}\sqrt{570}e^{24} + \frac{20}{861}\sqrt{237}e^{36}$	$(\frac{160}{861}, -\frac{220}{861}, -\frac{10}{287}, \frac{320}{861}, -\frac{20}{287}, \frac{130}{861}, \frac{160}{287}, -\frac{40}{123}, \frac{100}{861})$ $+ \frac{40}{287}\sqrt{61}e^4 \otimes e_8$	{3568, 58}
952:129	$0, 0, 0, 0, \frac{6}{175}\sqrt{30}e^{12}, \frac{12}{175}\sqrt{35}e^{13}, \frac{2}{175}\sqrt{345}e^{14}, \frac{24}{175}\sqrt{10}e^{25},$ $\frac{12}{175}\sqrt{1230}e^{15} + \frac{2}{175}\sqrt{465}e^{24} + \frac{24}{175}\sqrt{10}e^{36}$	$(\frac{3}{35}, -\frac{1}{7}, -\frac{1}{35}, \frac{6}{35}, -\frac{2}{35}, \frac{2}{35}, \frac{9}{35}, -\frac{1}{5}, \frac{1}{35})$ $+ \frac{6}{175}\sqrt{255}e^3 \otimes e_8$	{123459, 4578}
952:129	$0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{2}{3}e^{14}, \frac{1}{9}\sqrt{42}e^{25},$ $\frac{2}{9}\sqrt{6}e^{15} + \frac{1}{9}\sqrt{6}e^{24} + \frac{2}{9}\sqrt{3}e^{36}$	$(-\frac{1}{9}, \frac{1}{3}, \frac{1}{9}, -\frac{2}{9}, \frac{2}{9}, 0, -\frac{1}{3}, \frac{5}{9}, \frac{1}{9})$ $+ \frac{1}{3}\sqrt{10}e^2 \otimes e_7$	{123468, 1248, 3479, 4679}
952:129	$0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{2}{3}e^{14}, \frac{1}{9}\sqrt{42}e^{25},$ $\frac{2}{9}\sqrt{6}e^{15} + \frac{1}{9}\sqrt{6}e^{24} + \frac{2}{9}\sqrt{3}e^{36}$	$(-\frac{1}{9}, \frac{1}{3}, \frac{1}{9}, -\frac{2}{9}, \frac{2}{9}, 0, -\frac{1}{3}, \frac{5}{9}, \frac{1}{9})$ $- \frac{1}{3}\sqrt{10}e^2 \otimes e_7$	{123468, 1248, 3479, 4679}
952:130	$0, 0, 0, 0, -\frac{3}{44}\sqrt{3}e^{12}, \frac{3}{44}\sqrt{57}e^{13}, \frac{3}{44}\sqrt{46}e^{24}, \frac{3}{22}\sqrt{19}e^{15},$ $\frac{3}{22}\sqrt{17}e^{14} + \frac{3}{44}\sqrt{41}e^{25} + \frac{3}{44}\sqrt{95}e^{36}$	$(-\frac{9}{44}, \frac{3}{22}, \frac{3}{22}, \frac{3}{11}, -\frac{3}{44}, -\frac{3}{44}, \frac{9}{22}, -\frac{3}{11}, \frac{3}{44})$ $+ \frac{15}{44}\sqrt{6}e^3 \otimes e_8$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:130	$0, 0, 0, 0, \frac{3}{44}\sqrt{3}e^{12}, \frac{3}{44}\sqrt{57}e^{13}, \frac{3}{44}\sqrt{46}e^{24}, \frac{3}{22}\sqrt{19}e^{15},$ $\frac{3}{22}\sqrt{17}e^{14} + \frac{3}{44}\sqrt{41}e^{25} + \frac{3}{44}\sqrt{95}e^{36}$	$(-\frac{9}{44}, \frac{3}{22}, \frac{3}{22}, \frac{3}{11}, -\frac{3}{44}, -\frac{3}{44}, \frac{9}{22}, -\frac{3}{11}, \frac{3}{44})$ $+ \frac{15}{44}\sqrt{6}e^3 \otimes e_8$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}
952:130	$0, 0, 0, 0, -\frac{3}{169}\sqrt{138}e^{12}, \frac{9}{169}\sqrt{38}e^{13}, \frac{12}{169}\sqrt{26}e^{24}, \frac{6}{169}\sqrt{14}e^{15},$ $\frac{6}{169}\sqrt{67}e^{14} + \frac{3}{169}\sqrt{166}e^{25} + \frac{3}{169}\sqrt{370}e^{36}$	$(\frac{21}{169}, -\frac{9}{169}, -\frac{9}{169}, -\frac{18}{169}, \frac{12}{169}, \frac{12}{169}, -\frac{27}{169}, \frac{33}{169}, \frac{3}{169})$ $+ \frac{30}{169}\sqrt{6}e^3 \otimes e_7$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}
952:130	$0, 0, 0, 0, \frac{3}{169}\sqrt{138}e^{12}, \frac{9}{169}\sqrt{38}e^{13}, \frac{12}{169}\sqrt{26}e^{24}, \frac{6}{169}\sqrt{14}e^{15},$ $\frac{6}{169}\sqrt{67}e^{14} + \frac{3}{169}\sqrt{166}e^{25} + \frac{3}{169}\sqrt{370}e^{36}$	$(\frac{21}{169}, -\frac{9}{169}, -\frac{9}{169}, -\frac{18}{169}, \frac{12}{169}, \frac{12}{169}, -\frac{27}{169}, \frac{33}{169}, \frac{3}{169})$ $+ \frac{30}{169}\sqrt{6}e^3 \otimes e_7$	{123459, 146789, 2346, 4578, 123459, 146789, 2346, 4578}
952:132	$0, 0, 0, 0, \frac{2}{59}\sqrt{570}e^{12}, \frac{38}{59}\sqrt{2}e^{13}, \frac{12}{59}\sqrt{19}e^{24}, \frac{2}{59}\sqrt{285}e^{15},$ $\frac{4}{59}\sqrt{114}e^{16} + \frac{6}{59}\sqrt{19}e^{25} + \frac{2}{59}\sqrt{190}e^{34}$	$(-\frac{9}{59}, \frac{11}{59}, \frac{31}{59}, -\frac{18}{59}, \frac{2}{59}, \frac{22}{59}, -\frac{7}{59}, -\frac{7}{59}, \frac{13}{59})$ $+ \frac{2}{59}\sqrt{969}e^3 \otimes e_7$	{1234589, 457}
952:132	$0, 0, 0, 0, \frac{2}{1121}\sqrt{511}e^{12}, \frac{6}{1121}\sqrt{93}e^{13}, \frac{4}{1121}\sqrt{222}e^{24}, \frac{2}{1121}\sqrt{123}e^{15},$ $\frac{2}{1121}\sqrt{929}e^{16} + \frac{4}{1121}\sqrt{69}e^{25} + \frac{12}{1121}\sqrt{21}e^{34}$	$(-\frac{11}{1121}, \frac{9}{1121}, \frac{29}{1121}, -\frac{22}{1121}, -\frac{2}{1121}, \frac{18}{1121}, -\frac{13}{1121}, -\frac{13}{1121}, \frac{7}{1121})$ $+ \frac{2}{1121}\sqrt{1011}e^1 \otimes e_7$	{1234589, 457}
952:132	$0, 0, 0, 0, \frac{2}{59}\sqrt{399}e^{12}, \frac{2}{59}\sqrt{247}e^{13}, \frac{2}{59}\sqrt{285}e^{24}, \frac{12}{59}\sqrt{19}e^{15},$ $\frac{6}{59}\sqrt{57}e^{16} + \frac{6}{59}\sqrt{19}e^{25} + \frac{2}{59}\sqrt{779}e^{34}$	$(-\frac{9}{59}, \frac{11}{59}, \frac{31}{59}, -\frac{18}{59}, \frac{2}{59}, \frac{22}{59}, -\frac{7}{59}, -\frac{7}{59}, \frac{13}{59})$ $+ \frac{2}{59}\sqrt{969}e^3 \otimes e_8$	{128, 379}
952:132	$0, 0, 0, 0, \frac{1}{65}\sqrt{127}e^{12}, \frac{1}{65}\sqrt{197}e^{13}, \frac{1}{65}\sqrt{3}e^{24}, \frac{4}{65}\sqrt{15}e^{15},$ $\frac{2}{65}\sqrt{41}e^{16} + \frac{3}{65}\sqrt{11}e^{25} + \frac{1}{65}\sqrt{241}e^{34}$	$(\frac{11}{260}, -\frac{2}{65}, -\frac{27}{260}, \frac{11}{130}, \frac{3}{260}, -\frac{4}{65}, \frac{7}{130}, \frac{7}{130}, -\frac{1}{52})$ $+ \frac{9}{65}\sqrt{3}e^4 \otimes e_8$	{128, 23589}
952:134	$0, 0, 0, 0, -\frac{3}{169}\sqrt{370}e^{12}, \frac{3}{169}\sqrt{166}e^{13}, \frac{12}{169}\sqrt{26}e^{24}, \frac{6}{169}\sqrt{14}e^{15},$ $\frac{6}{169}\sqrt{67}e^{14} + \frac{3}{169}\sqrt{38}e^{25} + \frac{3}{169}\sqrt{138}e^{36}$	$(\frac{21}{169}, -\frac{9}{169}, -\frac{9}{169}, -\frac{18}{169}, \frac{12}{169}, \frac{12}{169}, -\frac{27}{169}, \frac{33}{169}, \frac{3}{169})$ $+ \frac{30}{169}\sqrt{6}e^2 \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:134	$0, 0, 0, 0, \frac{3}{169}\sqrt{370}e^{12}, \frac{3}{169}\sqrt{166}e^{13}, \frac{12}{169}\sqrt{26}e^{24}, \frac{6}{169}\sqrt{14}e^{15},$ $\frac{6}{169}\sqrt{67}e^{14} + \frac{3}{169}\sqrt{38}e^{25} + \frac{3}{169}\sqrt{138}e^{36}$	$(\frac{21}{169}, -\frac{9}{169}, -\frac{9}{169}, -\frac{18}{169}, \frac{12}{169}, \frac{12}{169}, -\frac{27}{169}, \frac{33}{169}, \frac{3}{169})$ $+ \frac{30}{169}\sqrt{6}e^2 \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:136	$0, 0, 0, 0, \frac{11}{23}\sqrt{2}e^{12}, \frac{1}{23}\sqrt{165}e^{13}, \frac{2}{23}\sqrt{66}e^{34}, \frac{1}{23}\sqrt{165}e^{25},$ $\frac{1}{23}\sqrt{66}e^{15} + \frac{1}{23}\sqrt{55}e^{24} + \frac{1}{23}\sqrt{66}e^{36}$	$(-\frac{3}{23}, \frac{7}{23}, \frac{2}{23}, -\frac{6}{23}, \frac{4}{23}, -\frac{1}{23}, -\frac{4}{23}, \frac{11}{23}, \frac{1}{23})$ $+ \frac{1}{23}\sqrt{429}e^2 \otimes e_7$	{1234689, 467}
952:136	$0, 0, 0, 0, \frac{118}{3949}\sqrt{10}e^{12}, \frac{59}{3949}\sqrt{230}e^{13}, \frac{177}{3949}\sqrt{274}e^{34},$ $\frac{118}{3949}\sqrt{582}e^{25} + \frac{59}{3949}\sqrt{506}e^{15} + \frac{118}{3949}\sqrt{355}e^{24} + \frac{59}{3949}\sqrt{690}e^{36}$	$(\frac{1003}{3949}, -\frac{1239}{3949}, -\frac{118}{3949}, \frac{2006}{3949}, -\frac{236}{3949}, \frac{885}{3949}, \frac{1888}{3949}, -\frac{1475}{3949}, \frac{767}{3949})$ $+ \frac{354}{3949}\sqrt{183}e^4 \otimes e_8$	{2345, 24567}
952:136	$0, 0, 0, 0, \frac{2}{479}\sqrt{1266}e^{12}, \frac{4}{479}\sqrt{187}e^{13}, \frac{24}{479}\sqrt{10}e^{34}, \frac{2}{479}\sqrt{42}e^{25},$ $\frac{2}{479}\sqrt{1454}e^{15} + \frac{18}{479}\sqrt{14}e^{24} + \frac{6}{479}\sqrt{58}e^{36}$	$(-\frac{14}{479}, \frac{26}{479}, \frac{6}{479}, -\frac{28}{479}, \frac{12}{479}, -\frac{8}{479}, -\frac{22}{479}, \frac{38}{479}, -\frac{2}{479})$ $+ \frac{2}{479}\sqrt{1722}e^1 \otimes e_7$	{123469, 4678}
952:136	$0, 0, 0, 0, \frac{7}{247}\sqrt{26}e^{12}, \frac{7}{247}\sqrt{226}e^{13}, \frac{42}{247}e^{34}, \frac{7}{247}\sqrt{258}e^{25},$ $\frac{7}{247}\sqrt{194}e^{15} + \frac{7}{247}\sqrt{86}e^{24} + \frac{7}{247}\sqrt{246}e^{36}$	$(\frac{28}{247}, -\frac{42}{247}, -\frac{7}{247}, \frac{56}{247}, -\frac{14}{247}, \frac{21}{247}, \frac{49}{247}, -\frac{56}{247}, \frac{14}{247})$ $+ \frac{84}{247}\sqrt{3}e^3 \otimes e_8$	{123459, 4578}
952:138	$0, 0, 0, 0, \frac{144}{503}\sqrt{6}e^{12}, \frac{18}{503}\sqrt{618}e^{13}, \frac{18}{503}\sqrt{462}e^{14},$ $\frac{54}{503}\sqrt{47}e^{15} + \frac{36}{503}\sqrt{39}e^{24}, \frac{36}{503}\sqrt{39}e^{16} + \frac{54}{503}\sqrt{13}e^{25}$	$(-\frac{63}{503}, \frac{117}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $+ \frac{54}{503}\sqrt{141}e^3 \otimes e_7$	{125678, 167, 23689, 3569}
952:138	$0, 0, 0, 0, \frac{144}{503}\sqrt{6}e^{12}, \frac{18}{503}\sqrt{618}e^{13}, \frac{18}{503}\sqrt{462}e^{14},$ $\frac{54}{503}\sqrt{47}e^{15} + \frac{36}{503}\sqrt{39}e^{24}, \frac{36}{503}\sqrt{39}e^{16} + \frac{54}{503}\sqrt{13}e^{25}$	$(-\frac{63}{503}, \frac{117}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $- \frac{54}{503}\sqrt{141}e^3 \otimes e_7$	{125678, 167, 23689, 3569}
952:138	$0, 0, 0, 0, \frac{9}{991}\sqrt{3282}e^{12}, \frac{72}{991}\sqrt{33}e^{13}, \frac{18}{991}\sqrt{282}e^{14},$ $\frac{378}{991}\sqrt{2}e^{15} + \frac{99}{991}\sqrt{30}e^{24}, \frac{99}{991}\sqrt{30}e^{16} + \frac{27}{991}\sqrt{82}e^{25}$	$(\frac{99}{991}, -\frac{72}{991}, -\frac{243}{991}, \frac{198}{991}, \frac{27}{991}, -\frac{144}{991}, \frac{297}{991}, \frac{126}{991}, -\frac{45}{991})$ $+ \frac{378}{991}\sqrt{3}e^4 \otimes e_9$	{23689, 3569}
952:139	$0, 0, 0, 0, -\frac{8}{189}\sqrt{155}e^{12}, \frac{8}{189}\sqrt{273}e^{13}, \frac{32}{189}\sqrt{15}e^{14},$ $\frac{16}{189}\sqrt{37}e^{15} + \frac{8}{189}\sqrt{66}e^{24}, \frac{8}{189}\sqrt{21}e^{25} + \frac{8}{189}\sqrt{259}e^{36}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642}e^3 \otimes e_7$	{1256789, 1679, 2368, 356, 1256789, 1679, 2368, 356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:139	$0, 0, 0, 0, \frac{8}{189}\sqrt{155e^{12}}, \frac{8}{189}\sqrt{273e^{13}}, \frac{32}{189}\sqrt{15e^{14}},$ $\frac{16}{189}\sqrt{37e^{15}} + \frac{8}{189}\sqrt{66e^{24}}, \frac{8}{189}\sqrt{21e^{25}} + \frac{8}{189}\sqrt{259e^{36}}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642e^3} \otimes e_7$	{1256789, 1679, 2368, 356, 1256789, 1679, 2368, 356}
952:139	$0, 0, 0, 0, -\frac{7}{729}\sqrt{534e^{12}}, \frac{77}{729}\sqrt{10e^{13}}, \frac{14}{729}\sqrt{222e^{14}},$ $\frac{14}{729}\sqrt{177e^{15}} + \frac{14}{729}\sqrt{395e^{24}}, \frac{7}{729}\sqrt{1110e^{25}} + \frac{7}{729}\sqrt{1342e^{36}}$	$(-\frac{49}{729}, \frac{91}{729}, \frac{91}{729}, -\frac{98}{729}, \frac{14}{243}, \frac{14}{243}, -\frac{49}{243}, -\frac{7}{729}, \frac{133}{729})$ $+ \frac{14}{729}\sqrt{654e^3} \otimes e_8$	{1234579, 146789, 2346, 458, 1234579, 146789, 2346, 458}
952:139	$0, 0, 0, 0, \frac{7}{729}\sqrt{534e^{12}}, \frac{77}{729}\sqrt{10e^{13}}, \frac{14}{729}\sqrt{222e^{14}},$ $\frac{14}{729}\sqrt{177e^{15}} + \frac{14}{729}\sqrt{395e^{24}}, \frac{7}{729}\sqrt{1110e^{25}} + \frac{7}{729}\sqrt{1342e^{36}}$	$(-\frac{49}{729}, \frac{91}{729}, \frac{91}{729}, -\frac{98}{729}, \frac{14}{243}, \frac{14}{243}, -\frac{49}{243}, -\frac{7}{729}, \frac{133}{729})$ $+ \frac{14}{729}\sqrt{654e^3} \otimes e_8$	{1234579, 146789, 2346, 458, 1234579, 146789, 2346, 458}
952:139	$0, 0, 0, 0, -\frac{8}{189}\sqrt{166e^{12}}, \frac{32}{189}\sqrt{3e^{13}}, \frac{32}{189}\sqrt{15e^{14}},$ $\frac{16}{189}\sqrt{37e^{15}} + \frac{8}{189}\sqrt{66e^{24}}, \frac{80}{189}\sqrt{3e^{25}} + \frac{8}{189}\sqrt{62e^{36}}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642e^2} \otimes e_7$	{123469, 1249, 3478, 4678, 123469, 1249, 3478, 4678}
952:139	$0, 0, 0, 0, \frac{8}{189}\sqrt{166e^{12}}, \frac{32}{189}\sqrt{3e^{13}}, \frac{32}{189}\sqrt{15e^{14}},$ $\frac{16}{189}\sqrt{37e^{15}} + \frac{8}{189}\sqrt{66e^{24}}, \frac{80}{189}\sqrt{3e^{25}} + \frac{8}{189}\sqrt{62e^{36}}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642e^2} \otimes e_7$	{123469, 1249, 3478, 4678, 123469, 1249, 3478, 4678}
952:141	$0, 0, 0, 0, \frac{58}{3061}\sqrt{437e^{12}}, \frac{58}{3061}\sqrt{290e^{13}}, \frac{290}{3061}\sqrt{46e^{24}},$ $\frac{986}{3061}\sqrt{3e^{14}} + \frac{174}{3061}\sqrt{91e^{25}}, \frac{16}{3061}\sqrt{214e^{15}} + \frac{406}{3061}\sqrt{15e^{36}}$	$(-\frac{580}{3061}, \frac{522}{3061}, -\frac{29}{3061}, \frac{1044}{3061}, -\frac{58}{3061}, \frac{609}{3061}, \frac{1566}{3061}, \frac{464}{3061}, -\frac{638}{3061})$ $+ \frac{1334}{3061}\sqrt{5e^4} \otimes e_9$	{359, 569}
952:141	$0, 0, 0, 0, \frac{2}{121}\sqrt{21e^{12}}, \frac{2}{121}\sqrt{57e^{13}}, \frac{2}{121}\sqrt{21e^{24}},$ $\frac{2}{121}\sqrt{39e^{14}} + \frac{2}{121}\sqrt{57e^{25}}, \frac{4}{121}\sqrt{17e^{15}} + \frac{6}{121}\sqrt{7e^{36}}$	$(\frac{5}{121}, -\frac{3}{121}, \frac{1}{121}, -\frac{6}{121}, \frac{2}{121}, \frac{6}{121}, -\frac{9}{121}, -\frac{1}{121}, \frac{7}{121})$ $+ \frac{2}{121}\sqrt{109e^3} \otimes e_8$	{1234579, 458}
952:141	$0, 0, 0, 0, \frac{184}{3089}\sqrt{47e^{12}}, \frac{46}{3089}\sqrt{1658e^{13}}, \frac{276}{3089}\sqrt{39e^{24}},$ $\frac{92}{3089}\sqrt{103e^{14}} + \frac{46}{3089}\sqrt{41e^{25}}, \frac{46}{3089}\sqrt{721e^{15}} + \frac{46}{3089}\sqrt{1270e^{36}}$	$(\frac{621}{3089}, -\frac{299}{3089}, \frac{161}{3089}, -\frac{598}{3089}, \frac{322}{3089}, \frac{782}{3089}, -\frac{897}{3089}, \frac{23}{3089}, \frac{943}{3089})$ $+ \frac{322}{3089}\sqrt{55e^3} \otimes e_7$	{125679, 3568}
952:143	$0, 0, 0, 0, \frac{17}{337}\sqrt{114e^{12}}, \frac{85}{674}\sqrt{34e^{13}}, \frac{51}{337}\sqrt{21e^{14}},$ $\frac{17}{337}\sqrt{194e^{15}} + \frac{17}{674}\sqrt{622e^{34}}, \frac{17}{337}\sqrt{47e^{16}} + \frac{221}{674}\sqrt{2e^{25}}$	$(-\frac{17}{337}, \frac{68}{337}, \frac{153}{337}, -\frac{119}{337}, \frac{51}{337}, \frac{136}{337}, -\frac{136}{337}, \frac{34}{337}, \frac{119}{337})$ $+ \frac{17}{674}\sqrt{2270e^3} \otimes e_7$	{167, 23689}
952:143	$0, 0, 0, 0, \frac{47}{5397}\sqrt{1698e^{12}}, \frac{47}{5397}\sqrt{110e^{13}}, \frac{47}{5397}\sqrt{3182e^{14}},$ $\frac{188}{5397}\sqrt{271e^{15}} + \frac{47}{5397}\sqrt{3946e^{34}}, \frac{47}{5397}\sqrt{3226e^{16}} + \frac{376}{5397}\sqrt{62e^{25}}$	$(\frac{470}{5397}, -\frac{141}{1799}, -\frac{188}{771}, \frac{611}{1799}, \frac{47}{5397}, -\frac{282}{1799}, \frac{329}{771}, \frac{517}{5397}, -\frac{376}{5397})$ $+ \frac{47}{5397}\sqrt{9370e^4} \otimes e_9$	{124568, 23689}
952:144	$0, 0, 0, 0, \frac{46}{2085}\sqrt{434e^{12}}, \frac{46}{2085}\sqrt{238e^{13}}, \frac{46}{2085}\sqrt{458e^{24}},$ $\frac{46}{2085}\sqrt{663e^{15}} + \frac{92}{695}\sqrt{19e^{34}}, \frac{46}{2085}\sqrt{907e^{16}} + \frac{46}{2085}\sqrt{461e^{25}}$	$(\frac{253}{2085}, -\frac{184}{2085}, -\frac{207}{695}, \frac{943}{2085}, \frac{23}{695}, -\frac{368}{2085}, \frac{253}{695}, \frac{322}{2085}, -\frac{23}{417})$ $+ \frac{92}{2085}\sqrt{446e^4} \otimes e_9$	{124568, 236789}
952:145	$0, 0, 0, 0, -\frac{29}{1521}\sqrt{167e^{12}}, \frac{29}{1521}\sqrt{177e^{13}}, \frac{29}{1521}\sqrt{1122e^{14}},$ $\frac{58}{1521}\sqrt{214e^{15}} + \frac{58}{1521}\sqrt{219e^{34}}, \frac{29}{1521}\sqrt{1191e^{25}} + \frac{145}{1521}\sqrt{13e^{36}}$	$(\frac{29}{169}, -\frac{290}{1521}, -\frac{290}{1521}, \frac{58}{169}, -\frac{29}{1521}, -\frac{29}{1521}, \frac{87}{169}, \frac{232}{1521}, -\frac{319}{1521})$ $+ \frac{29}{1521}\sqrt{2598e^4} \otimes e_9$	{12458, 1346, 2389, 569, 12458, 1346, 2389, 569}
952:145	$0, 0, 0, 0, \frac{29}{1521}\sqrt{167e^{12}}, \frac{29}{1521}\sqrt{177e^{13}}, \frac{29}{1521}\sqrt{1122e^{14}},$ $\frac{58}{1521}\sqrt{214e^{15}} + \frac{58}{1521}\sqrt{219e^{34}}, \frac{29}{1521}\sqrt{1191e^{25}} + \frac{145}{1521}\sqrt{13e^{36}}$	$(\frac{29}{169}, -\frac{290}{1521}, -\frac{290}{1521}, \frac{58}{169}, -\frac{29}{1521}, -\frac{29}{1521}, \frac{87}{169}, \frac{232}{1521}, -\frac{319}{1521})$ $+ \frac{29}{1521}\sqrt{2598e^4} \otimes e_9$	{12458, 1346, 2389, 569, 12458, 1346, 2389, 569}
952:145	$0, 0, 0, 0, -\frac{8}{189}\sqrt{199e^{12}}, \frac{8}{189}e^{13}, \frac{32}{189}\sqrt{15e^{14}},$ $\frac{16}{189}\sqrt{37e^{15}} + \frac{8}{189}\sqrt{66e^{34}}, \frac{8}{63}\sqrt{37e^{25}} + \frac{8}{189}\sqrt{95e^{36}}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642e^2} \otimes e_7$	{123469, 1356789, 256, 4678, 123469, 1356789, 256, 4678}
952:145	$0, 0, 0, 0, \frac{8}{189}\sqrt{199e^{12}}, \frac{8}{189}e^{13}, \frac{32}{189}\sqrt{15e^{14}},$ $\frac{16}{189}\sqrt{37e^{15}} + \frac{8}{189}\sqrt{66e^{34}}, \frac{8}{63}\sqrt{37e^{25}} + \frac{8}{189}\sqrt{95e^{36}}$	$(-\frac{8}{63}, \frac{8}{27}, \frac{8}{27}, -\frac{16}{63}, \frac{32}{189}, \frac{32}{189}, -\frac{8}{21}, \frac{8}{189}, \frac{88}{189})$ $+ \frac{8}{189}\sqrt{642e^2} \otimes e_7$	{123469, 1356789, 256, 4678, 123469, 1356789, 256, 4678}
952:147	$0, 0, 0, 0, \frac{48}{389}\sqrt{15e^{12}}, \frac{12}{389}\sqrt{546e^{13}}, \frac{12}{389}\sqrt{33e^{14}},$ $\frac{36}{389}\sqrt{53e^{25}} + \frac{12}{389}\sqrt{786e^{34}}, \frac{12}{389}\sqrt{786e^{15}} + \frac{36}{389}\sqrt{15e^{36}}$	$(-\frac{102}{389}, \frac{126}{389}, \frac{12}{389}, \frac{138}{389}, \frac{24}{389}, -\frac{90}{389}, \frac{36}{389}, \frac{150}{389}, -\frac{78}{389})$ $+ \frac{36}{389}\sqrt{114e^4} \otimes e_9$	{129, 468}
952:147	$0, 0, 0, 0, \frac{6}{407}\sqrt{57e^{12}}, \frac{6}{407}\sqrt{426e^{13}}, \frac{6}{407}\sqrt{966e^{14}},$ $\frac{18}{37}e^{25} + \frac{6}{407}\sqrt{1023e^{34}}, \frac{6}{407}\sqrt{1023e^{15}} + \frac{162}{407}e^{36}$	$(-\frac{57}{407}, \frac{63}{407}, \frac{3}{407}, \frac{6}{37}, \frac{6}{407}, -\frac{54}{407}, \frac{9}{407}, \frac{69}{407}, -\frac{51}{407})$ $+ \frac{36}{407}\sqrt{30e^2} \otimes e_7$	{124569, 345678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:149	$0, 0, 0, 0, -\frac{28}{485}\sqrt{3}e^{12}, \frac{28}{485}\sqrt{3}e^{13}, \frac{28}{485}\sqrt{71}e^{24},$ $\frac{84}{485}\sqrt{7}e^{15} + \frac{28}{485}\sqrt{134}e^{34}, \frac{84}{485}\sqrt{15}e^{25} + \frac{168}{485}\sqrt{2}e^{36}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402}e^4 \otimes e_9$	{12679, 13589, 23456, 478, 12679, 13589, 23456, 478}
952:149	$0, 0, 0, 0, \frac{28}{485}\sqrt{3}e^{12}, \frac{28}{485}\sqrt{3}e^{13}, \frac{28}{485}\sqrt{71}e^{24},$ $\frac{84}{485}\sqrt{7}e^{15} + \frac{28}{485}\sqrt{134}e^{34}, \frac{84}{485}\sqrt{15}e^{25} + \frac{168}{485}\sqrt{2}e^{36}$	$(\frac{28}{97}, -\frac{126}{485}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402}e^4 \otimes e_9$	{12679, 13589, 23456, 478, 12679, 13589, 23456, 478}
952:149	$0, 0, 0, 0, -\frac{2}{461}\sqrt{30}e^{12}, \frac{2}{461}\sqrt{177}e^{13}, \frac{2}{461}\sqrt{374}e^{24},$ $\frac{2}{461}\sqrt{305}e^{15} + \frac{2}{461}\sqrt{345}e^{34}, \frac{2}{461}\sqrt{286}e^{25} + \frac{2}{461}\sqrt{226}e^{36}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, \frac{7}{461}, -\frac{13}{461})$ $+ \frac{6}{461}\sqrt{46}e^1 \otimes e_7$	{124569, 1689, 2367, 345678, 124569, 1689, 2367, 345678}
952:149	$0, 0, 0, 0, \frac{2}{461}\sqrt{30}e^{12}, \frac{2}{461}\sqrt{177}e^{13}, \frac{2}{461}\sqrt{374}e^{24},$ $\frac{2}{461}\sqrt{305}e^{15} + \frac{2}{461}\sqrt{345}e^{34}, \frac{2}{461}\sqrt{286}e^{25} + \frac{2}{461}\sqrt{226}e^{36}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, \frac{7}{461}, -\frac{13}{461})$ $+ \frac{6}{461}\sqrt{46}e^1 \otimes e_7$	{124569, 1689, 2367, 345678, 124569, 1689, 2367, 345678}
952:151	$0, 0, 0, 0, \frac{2}{77}\sqrt{285}e^{12}, \frac{4}{77}\sqrt{95}e^{13}, \frac{2}{77}\sqrt{690}e^{24},$ $\frac{2}{77}\sqrt{295}e^{25} + \frac{6}{77}\sqrt{15}e^{34}, \frac{2}{77}\sqrt{635}e^{15} + \frac{2}{77}\sqrt{65}e^{36}$	$(\frac{25}{77}, -\frac{15}{77}, \frac{5}{77}, -\frac{10}{77}, \frac{10}{77}, \frac{30}{77}, -\frac{25}{77}, -\frac{5}{77}, \frac{5}{11})$ $+ \frac{36}{77}\sqrt{5}e^1 \otimes e_7$	{135, 25789}
952:151	$0, 0, 0, 0, \frac{2}{95}\sqrt{114}e^{12}, \frac{2}{95}\sqrt{646}e^{13}, \frac{6}{95}\sqrt{57}e^{24},$ $\frac{2}{95}\sqrt{779}e^{25} + \frac{14}{95}\sqrt{19}e^{34}, \frac{2}{95}\sqrt{1102}e^{15} + \frac{4}{95}\sqrt{19}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{2}{5}, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{4}{95}\sqrt{399}e^4 \otimes e_9$	{1279, 4678}
952:153	$0, 0, 0, 0, \frac{12}{55}\sqrt{10}e^{12}, \frac{2}{55}\sqrt{470}e^{13}, \frac{2}{55}\sqrt{30}e^{34},$ $\frac{4}{55}\sqrt{5}e^{15} + \frac{12}{55}\sqrt{15}e^{24}, \frac{8}{55}\sqrt{15}e^{16} + \frac{2}{55}\sqrt{210}e^{25}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{6}{11}, -\frac{4}{11}, 0, \frac{4}{11}, \frac{2}{11}, -\frac{2}{11}, \frac{2}{11})$ $+ \frac{2}{55}\sqrt{930}e^3 \otimes e_8$	{123459, 4578}
952:153	$0, 0, 0, 0, \frac{25}{2101}\sqrt{2714}e^{12}, \frac{1150}{2101}e^{13}, \frac{50}{2101}\sqrt{102}e^{34},$ $\frac{100}{2101}\sqrt{173}e^{15} + \frac{25}{2101}\sqrt{3310}e^{24}, \frac{375}{2101}\sqrt{6}e^{16} + \frac{225}{2101}\sqrt{2}e^{25}$	$(\frac{325}{2101}, -\frac{150}{2101}, -\frac{625}{2101}, \frac{650}{2101}, \frac{175}{2101}, -\frac{300}{2101}, \frac{25}{2101}, \frac{500}{2101}, \frac{25}{2101})$ $+ \frac{300}{2101}\sqrt{26}e^4 \otimes e_9$	{23689, 3569}
952:153	$0, 0, 0, 0, \frac{1}{133}\sqrt{278}e^{12}, \frac{2}{133}\sqrt{51}e^{13}, \frac{6}{133}\sqrt{6}e^{34},$ $\frac{12}{133}e^{15} + \frac{1}{133}\sqrt{178}e^{24}, \frac{1}{133}\sqrt{186}e^{16} + \frac{9}{133}\sqrt{2}e^{25}$	$(-\frac{3}{133}, \frac{2}{133}, \frac{1}{19}, \frac{6}{133}, -\frac{1}{133}, \frac{1}{133}, \frac{1}{133}, -\frac{4}{133}, \frac{1}{133})$ $+ \frac{4}{133}\sqrt{15}e^2 \otimes e_7$	{1234689, 467}
952:153	$0, 0, 0, 0, \frac{42}{1109}\sqrt{103}e^{12}, \frac{14}{1109}\sqrt{511}e^{13}, \frac{14}{1109}\sqrt{834}e^{34},$ $\frac{14}{1109}\sqrt{881}e^{15} + \frac{294}{1109}\sqrt{2}e^{24}, \frac{42}{1109}\sqrt{31}e^{16} + \frac{14}{1109}\sqrt{138}e^{25}$	$(\frac{91}{1109}, -\frac{49}{1109}, -\frac{189}{1109}, \frac{182}{1109}, \frac{42}{1109}, -\frac{98}{1109}, -\frac{7}{1109}, \frac{133}{1109}, -\frac{7}{1109})$ $- \frac{70}{1109}\sqrt{39}e^1 \otimes e_7$	{1234689, 134569, 245678, 467}
952:153	$0, 0, 0, 0, \frac{42}{1109}\sqrt{103}e^{12}, \frac{14}{1109}\sqrt{511}e^{13}, \frac{14}{1109}\sqrt{834}e^{34},$ $\frac{14}{1109}\sqrt{881}e^{15} + \frac{294}{1109}\sqrt{2}e^{24}, \frac{42}{1109}\sqrt{31}e^{16} + \frac{14}{1109}\sqrt{138}e^{25}$	$(\frac{91}{1109}, -\frac{49}{1109}, -\frac{189}{1109}, \frac{182}{1109}, \frac{42}{1109}, -\frac{98}{1109}, -\frac{7}{1109}, \frac{133}{1109}, -\frac{7}{1109})$ $+ \frac{70}{1109}\sqrt{39}e^1 \otimes e_7$	{1234689, 134569, 245678, 467}
952:154	$0, 0, 0, 0, \frac{12}{247}\sqrt{38}e^{12}, \frac{3}{247}\sqrt{2546}e^{13}, \frac{3}{247}\sqrt{2926}e^{34},$ $\frac{12}{247}\sqrt{133}e^{14} + \frac{18}{247}\sqrt{38}e^{25}, \frac{3}{247}\sqrt{3382}e^{15} + \frac{9}{247}\sqrt{114}e^{36}$	$(-\frac{3}{13}, \frac{3}{13}, 0, \frac{6}{13}, 0, -\frac{3}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{3}{13})$ $+ \frac{6}{247}\sqrt{1995}e^4 \otimes e_9$	{13456, 1457}
952:154	$0, 0, 0, 0, \frac{3}{287}\sqrt{158}e^{12}, \frac{3}{287}\sqrt{326}e^{13}, \frac{30}{287}e^{34},$ $\frac{3}{287}\sqrt{206}e^{14} + \frac{12}{287}\sqrt{15}e^{25}, \frac{12}{287}\sqrt{22}e^{15} + \frac{9}{287}\sqrt{38}e^{36}$	$(\frac{18}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{24}{287}, \frac{6}{287}, \frac{3}{41}, -\frac{3}{41}, -\frac{6}{287}, \frac{24}{287})$ $+ \frac{6}{287}\sqrt{129}e^3 \otimes e_8$	{1234579, 458}
952:154	$0, 0, 0, 0, \frac{12}{599}\sqrt{938}e^{12}, \frac{48}{599}\sqrt{17}e^{13}, \frac{48}{599}\sqrt{73}e^{34},$ $\frac{12}{599}\sqrt{146}e^{14} + \frac{72}{599}\sqrt{7}e^{25}, \frac{48}{599}\sqrt{313}e^{15} + \frac{12}{599}\sqrt{690}e^{36}$	$(\frac{156}{599}, -\frac{84}{599}, \frac{36}{599}, -\frac{168}{599}, \frac{72}{599}, \frac{192}{599}, -\frac{132}{599}, -\frac{12}{599}, \frac{228}{599})$ $+ \frac{12}{599}\sqrt{2046}e^1 \otimes e_7$	{129, 378}
952:154	$0, 0, 0, 0, \frac{3}{287}\sqrt{358}e^{12}, \frac{3}{287}\sqrt{190}e^{13}, \frac{12}{287}\sqrt{26}e^{34},$ $\frac{3}{287}\sqrt{310}e^{14} + \frac{12}{287}\sqrt{15}e^{25}, \frac{6}{287}\sqrt{41}e^{15} + \frac{3}{287}\sqrt{174}e^{36}$	$(\frac{18}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{24}{287}, \frac{6}{287}, \frac{3}{41}, -\frac{3}{41}, -\frac{6}{287}, \frac{24}{287})$ $+ \frac{6}{287}\sqrt{129}e^2 \otimes e_7$	{1234689, 467}
952:155	$0, 0, 0, 0, -\frac{12}{29}e^{12}, \frac{6}{29}\sqrt{6}e^{13}, \frac{2}{29}\sqrt{22}e^{34},$ $\frac{4}{29}\sqrt{3}e^{15} + \frac{4}{29}\sqrt{17}e^{24}, \frac{2}{29}\sqrt{42}e^{25} + \frac{4}{29}\sqrt{15}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^3 \otimes e_8$	{1234579, 14689, 23467, 458, 1234579, 14689, 23467, 458}
952:155	$0, 0, 0, 0, \frac{12}{29}e^{12}, \frac{6}{29}\sqrt{6}e^{13}, \frac{2}{29}\sqrt{22}e^{34},$ $\frac{4}{29}\sqrt{3}e^{15} + \frac{4}{29}\sqrt{17}e^{24}, \frac{2}{29}\sqrt{42}e^{25} + \frac{4}{29}\sqrt{15}e^{36}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^3 \otimes e_8$	{1234579, 14689, 23467, 458, 1234579, 14689, 23467, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:155	$0, 0, 0, 0, -\frac{1}{461}\sqrt{1318e^{12}}, \frac{1}{461}\sqrt{730e^{13}}, \frac{2}{461}\sqrt{374e^{34}}, \frac{2}{461}\sqrt{305e^{15}} + \frac{2}{461}\sqrt{345e^{24}}, \frac{7}{461}\sqrt{6e^{25}} + \frac{1}{461}\sqrt{534e^{36}}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, \frac{7}{461}, -\frac{13}{461}) + \frac{6}{461}\sqrt{46e^1} \otimes e_7$	{1234689, 134569, 245678, 467, 1234689, 134569, 245678, 467}
952:155	$0, 0, 0, 0, \frac{1}{461}\sqrt{1318e^{12}}, \frac{1}{461}\sqrt{730e^{13}}, \frac{2}{461}\sqrt{374e^{34}}, \frac{2}{461}\sqrt{305e^{15}} + \frac{2}{461}\sqrt{345e^{24}}, \frac{7}{461}\sqrt{6e^{25}} + \frac{1}{461}\sqrt{534e^{36}}$	$(\frac{9}{461}, -\frac{11}{461}, -\frac{11}{461}, \frac{18}{461}, -\frac{2}{461}, -\frac{2}{461}, \frac{7}{461}, \frac{7}{461}, -\frac{13}{461}) + \frac{6}{461}\sqrt{46e^1} \otimes e_7$	{1234689, 134569, 245678, 467, 1234689, 134569, 245678, 467}
952:155	$0, 0, 0, 0, -\frac{2}{29}\sqrt{66e^{12}}, \frac{8}{29}\sqrt{3e^{13}}, \frac{8}{29}\sqrt{5e^{34}}, \frac{4}{29}\sqrt{3e^{15}} + \frac{2}{29}\sqrt{34e^{24}}, \frac{4}{29}\sqrt{15e^{25}} + \frac{2}{29}\sqrt{42e^{36}}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}) + \frac{2}{29}\sqrt{102e^2} \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:155	$0, 0, 0, 0, \frac{2}{29}\sqrt{66e^{12}}, \frac{8}{29}\sqrt{3e^{13}}, \frac{8}{29}\sqrt{5e^{34}}, \frac{4}{29}\sqrt{3e^{15}} + \frac{2}{29}\sqrt{34e^{24}}, \frac{4}{29}\sqrt{15e^{25}} + \frac{2}{29}\sqrt{42e^{36}}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}) + \frac{2}{29}\sqrt{102e^2} \otimes e_7$	{1234689, 14579, 23458, 467, 1234689, 14579, 23458, 467}
952:162	$0, 0, 0, 0, -\frac{11}{500}\sqrt{42e^{12}}, \frac{11}{500}\sqrt{406e^{13}}, \frac{11}{250}\sqrt{106e^{23}}, \frac{11}{250}\sqrt{206e^{15}}, \frac{11}{250}\sqrt{106e^{14}} + \frac{11}{500}\sqrt{454e^{25}} + \frac{11}{500}\sqrt{818e^{36}}$	$(-\frac{121}{500}, \frac{22}{125}, \frac{22}{125}, \frac{44}{125}, -\frac{33}{500}, -\frac{33}{500}, \frac{44}{125}, -\frac{77}{250}, \frac{11}{100}) + \frac{11}{250}\sqrt{430e^3} \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:162	$0, 0, 0, 0, \frac{11}{500}\sqrt{42e^{12}}, \frac{11}{500}\sqrt{406e^{13}}, \frac{11}{250}\sqrt{106e^{23}}, \frac{11}{250}\sqrt{206e^{15}}, \frac{11}{250}\sqrt{106e^{14}} + \frac{11}{500}\sqrt{454e^{25}} + \frac{11}{500}\sqrt{818e^{36}}$	$(-\frac{121}{500}, \frac{22}{125}, \frac{22}{125}, \frac{44}{125}, -\frac{33}{500}, -\frac{33}{500}, \frac{44}{125}, -\frac{77}{250}, \frac{11}{100}) + \frac{11}{250}\sqrt{430e^3} \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:162	$0, 0, 0, 0, -\frac{46}{997}\sqrt{253e^{12}}, \frac{23}{997}\sqrt{670e^{13}}, \frac{23}{997}\sqrt{742e^{23}}, \frac{138}{997}\sqrt{19e^{15}}, \frac{23}{997}\sqrt{970e^{14}} + \frac{253}{997}\sqrt{2e^{25}} + \frac{46}{997}\sqrt{146e^{36}}$	$(\frac{299}{997}, -\frac{115}{997}, -\frac{115}{997}, -\frac{230}{997}, \frac{184}{997}, \frac{184}{997}, -\frac{230}{997}, \frac{483}{997}, \frac{69}{997}) + \frac{92}{997}\sqrt{107e^1} \otimes e_4$	{2345678, 2458, 346, 47, 2345678, 2458, 346, 47}
952:162	$0, 0, 0, 0, \frac{46}{997}\sqrt{253e^{12}}, \frac{23}{997}\sqrt{670e^{13}}, \frac{23}{997}\sqrt{742e^{23}}, \frac{138}{997}\sqrt{19e^{15}}, \frac{23}{997}\sqrt{970e^{14}} + \frac{253}{997}\sqrt{2e^{25}} + \frac{46}{997}\sqrt{146e^{36}}$	$(\frac{299}{997}, -\frac{115}{997}, -\frac{115}{997}, -\frac{230}{997}, \frac{184}{997}, \frac{184}{997}, -\frac{230}{997}, \frac{483}{997}, \frac{69}{997}) + \frac{92}{997}\sqrt{107e^1} \otimes e_4$	{2345678, 2458, 346, 47, 2345678, 2458, 346, 47}
952:162	$0, 0, 0, 0, -\frac{14}{29}e^{12}, \frac{7}{58}\sqrt{38e^{13}}, \frac{7}{58}\sqrt{41e^{23}}, \frac{7}{29}\sqrt{11e^{15}}, \frac{7}{29}\sqrt{15e^{14}} + \frac{7}{58}\sqrt{38e^{25}} + \frac{14}{29}e^{36}$	$(-\frac{35}{116}, \frac{7}{29}, \frac{7}{29}, \frac{14}{29}, -\frac{7}{116}, -\frac{7}{116}, \frac{14}{29}, -\frac{21}{58}, \frac{21}{116}) + \frac{7}{58}\sqrt{101e^4} \otimes e_8$	{136789, 189, 3578, 568, 136789, 189, 3578, 568}
952:162	$0, 0, 0, 0, \frac{14}{29}e^{12}, \frac{7}{58}\sqrt{38e^{13}}, \frac{7}{58}\sqrt{41e^{23}}, \frac{7}{29}\sqrt{11e^{15}}, \frac{7}{29}\sqrt{15e^{14}} + \frac{7}{58}\sqrt{38e^{25}} + \frac{14}{29}e^{36}$	$(-\frac{35}{116}, \frac{7}{29}, \frac{7}{29}, \frac{14}{29}, -\frac{7}{116}, -\frac{7}{116}, \frac{14}{29}, -\frac{21}{58}, \frac{21}{116}) + \frac{7}{58}\sqrt{101e^4} \otimes e_8$	{136789, 189, 3578, 568, 136789, 189, 3578, 568}
952:164	$0, 0, 0, 0, \frac{102}{1007}\sqrt{19e^{12}}, \frac{17}{1007}\sqrt{2298e^{13}}, \frac{34}{1007}\sqrt{534e^{23}}, \frac{17}{1007}\sqrt{1974e^{15}}, \frac{204}{1007}\sqrt{7e^{16}} + \frac{289}{1007}\sqrt{6e^{25}} + \frac{17}{1007}\sqrt{2982e^{34}}$	$(\frac{255}{1007}, -\frac{34}{1007}, -\frac{17}{53}, \frac{510}{1007}, \frac{221}{1007}, -\frac{68}{1007}, -\frac{357}{1007}, \frac{476}{1007}, \frac{187}{1007}) + \frac{34}{1007}\sqrt{1290e^4} \otimes e_7$	{1278, 379}
952:164	$0, 0, 0, 0, \frac{46}{709}\sqrt{161e^{12}}, \frac{23}{709}\sqrt{838e^{13}}, \frac{92}{709}\sqrt{39e^{23}}, \frac{23}{709}\sqrt{434e^{15}}, \frac{46}{709}\sqrt{157e^{16}} + \frac{23}{709}\sqrt{6e^{25}} + \frac{23}{709}\sqrt{642e^{34}}$	$(-\frac{115}{709}, \frac{92}{709}, \frac{299}{709}, -\frac{230}{709}, -\frac{23}{709}, \frac{184}{709}, \frac{391}{709}, -\frac{138}{709}, \frac{69}{709}) + \frac{138}{709}\sqrt{35e^3} \otimes e_4$	{2478, 45}
952:164	$0, 0, 0, 0, \frac{246}{3109}\sqrt{6e^{12}}, \frac{41}{3109}\sqrt{670e^{13}}, \frac{82}{3109}\sqrt{501e^{23}}, \frac{41}{3109}\sqrt{3338e^{15}}, \frac{246}{3109}\sqrt{31e^{16}} + \frac{41}{3109}\sqrt{2010e^{25}} + \frac{41}{3109}\sqrt{2670e^{34}}$	$(-\frac{451}{3109}, \frac{328}{3109}, \frac{1107}{3109}, -\frac{902}{3109}, -\frac{123}{3109}, \frac{656}{3109}, \frac{1435}{3109}, -\frac{574}{3109}, \frac{205}{3109}) + \frac{82}{3109}\sqrt{1338e^3} \otimes e_8$	{1278, 379}
952:164	$0, 0, 0, 0, \frac{13}{349}\sqrt{14e^{12}}, \frac{26}{349}\sqrt{37e^{13}}, \frac{91}{349}\sqrt{6e^{23}}, \frac{26}{349}\sqrt{34e^{15}}, \frac{13}{349}\sqrt{298e^{16}} + \frac{26}{349}\sqrt{39e^{25}} + \frac{117}{349}\sqrt{2e^{34}}$	$(\frac{65}{349}, -\frac{13}{349}, -\frac{91}{349}, \frac{130}{349}, \frac{52}{349}, -\frac{26}{349}, -\frac{104}{349}, \frac{117}{349}, \frac{39}{349}) + \frac{130}{349}\sqrt{6e^1} \otimes e_7$	{123459, 247}
952:164	$0, 0, 0, 0, \frac{5}{2797}\sqrt{2938e^{12}}, \frac{10}{2797}\sqrt{1037e^{13}}, \frac{5}{2797}\sqrt{618e^{23}}, \frac{10}{2797}\sqrt{1282e^{15}}, \frac{5}{2797}\sqrt{3710e^{16}} + \frac{10}{2797}\sqrt{483e^{25}} + \frac{5}{2797}\sqrt{5334e^{34}}$	$(\frac{65}{2797}, -\frac{25}{2797}, -\frac{115}{2797}, \frac{130}{2797}, \frac{40}{2797}, -\frac{50}{2797}, -\frac{140}{2797}, \frac{105}{2797}, \frac{15}{2797}) + \frac{30}{2797}\sqrt{146e^4} \otimes e_8$	{128, 235789}
952:165	$0, 0, 0, 0, \frac{212}{3421}\sqrt{30e^{12}}, \frac{689}{3421}\sqrt{14e^{13}}, \frac{159}{3421}\sqrt{302e^{23}}, \frac{106}{3421}\sqrt{802e^{25}}, \frac{53}{3421}\sqrt{2878e^{15}} + \frac{53}{3421}\sqrt{2814e^{24}} + \frac{106}{3421}\sqrt{317e^{36}}$	$(\frac{1007}{3421}, -\frac{901}{3421}, \frac{53}{3421}, \frac{2014}{3421}, \frac{106}{3421}, \frac{1060}{3421}, -\frac{848}{3421}, -\frac{795}{3421}, \frac{1113}{3421}) + \frac{106}{3421}\sqrt{1455e^4} \otimes e_8$	{3568, 578}
952:165	$0, 0, 0, 0, \frac{119}{1021}\sqrt{30e^{12}}, \frac{85}{1021}\sqrt{30e^{13}}, \frac{34}{1021}\sqrt{834e^{23}}, \frac{119}{1021}\sqrt{42e^{25}}, \frac{221}{1021}\sqrt{6e^{15}} + \frac{119}{1021}\sqrt{2454e^{24}} + \frac{34}{1021}\sqrt{42e^{36}}$	$(\frac{306}{1021}, -\frac{272}{1021}, \frac{17}{1021}, \frac{612}{1021}, \frac{34}{1021}, \frac{323}{1021}, -\frac{255}{1021}, -\frac{238}{1021}, \frac{340}{1021}) + \frac{34}{1021}\sqrt{1374e^4} \otimes e_7$	{1489, 234}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:165	$0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{2}{5}e^{13}, \frac{2}{5}\sqrt{3}e^{23}, \frac{1}{5}\sqrt{6}e^{25},$ $\frac{1}{5}\sqrt{14}e^{15} + \frac{1}{5}\sqrt{6}e^{24} + \frac{1}{5}\sqrt{6}e^{36}$	$(\frac{1}{5}, -\frac{1}{5}, 0, \frac{2}{5}, 0, \frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{5}\sqrt{2}e^1 \otimes e_7$	{123469, 3478}
952:165	$0, 0, 0, 0, \frac{98}{689}\sqrt{30}e^{12}, \frac{49}{3445}\sqrt{1510}e^{13}, \frac{147}{3445}\sqrt{194}e^{23},$ $\frac{98}{3445}\sqrt{559}e^{25}, \frac{49}{3445}\sqrt{782}e^{15} + \frac{49}{3445}\sqrt{2346}e^{24} + \frac{196}{3445}\sqrt{17}e^{36}$	$(-\frac{49}{265}, \frac{1127}{3445}, \frac{49}{689}, -\frac{98}{265}, \frac{98}{689}, -\frac{392}{3445}, \frac{1372}{3445}, \frac{1617}{3445}, -\frac{147}{3445})$ $+ \frac{98}{3445}\sqrt{1473}e^2 \otimes e_4$	{1345678, 1458}
952:165	$0, 0, 0, 0, \frac{7}{1165}\sqrt{366}e^{12}, \frac{7}{1165}\sqrt{4314}e^{13}, \frac{14}{1165}\sqrt{426}e^{23},$ $\frac{7}{1165}\sqrt{4422}e^{25}, \frac{7}{1165}\sqrt{3882}e^{15} + \frac{7}{1165}\sqrt{690}e^{24} + \frac{7}{1165}\sqrt{4422}e^{36}$	$(\frac{126}{1165}, -\frac{28}{233}, -\frac{7}{1165}, \frac{252}{1165}, -\frac{14}{1165}, \frac{119}{1165}, -\frac{147}{1165}, -\frac{154}{1165}, \frac{112}{1165})$ $+ \frac{14}{1165}\sqrt{1542}e^3 \otimes e_8$	{1234579, 4578}
952:167	$0, 0, 0, 0, \frac{58}{2749}\sqrt{1081}e^{12}, \frac{29}{2749}\sqrt{2534}e^{13}, \frac{203}{2749}\sqrt{30}e^{23},$ $\frac{29}{2749}\sqrt{2194}e^{15} + \frac{145}{2749}\sqrt{138}e^{24}, \frac{116}{2749}\sqrt{185}e^{16} + \frac{58}{2749}\sqrt{687}e^{25}$	$(-\frac{319}{2749}, \frac{203}{2749}, \frac{725}{2749}, -\frac{638}{2749}, -\frac{116}{2749}, \frac{406}{2749}, \frac{928}{2749}, -\frac{435}{2749}, \frac{87}{2749})$ $+ \frac{174}{2749}\sqrt{142}e^2 \otimes e_4$	{1345679, 46}
952:167	$0, 0, 0, 0, \frac{17}{1007}\sqrt{2298}e^{12}, \frac{102}{1007}\sqrt{19}e^{13}, \frac{34}{1007}\sqrt{534}e^{23},$ $\frac{204}{1007}\sqrt{7}e^{15} + \frac{17}{1007}\sqrt{2982}e^{24}, \frac{17}{1007}\sqrt{1974}e^{16} + \frac{289}{1007}\sqrt{6}e^{25}$	$(\frac{255}{1007}, -\frac{34}{1007}, -\frac{17}{53}, \frac{510}{1007}, \frac{221}{1007}, -\frac{68}{1007}, -\frac{357}{1007}, \frac{476}{1007}, \frac{187}{1007})$ $+ \frac{34}{1007}\sqrt{1290}e^4 \otimes e_7$	{1379, 278}
952:167	$0, 0, 0, 0, \frac{11}{733}\sqrt{806}e^{12}, \frac{22}{733}\sqrt{199}e^{13}, \frac{22}{733}\sqrt{105}e^{23},$ $\frac{22}{733}\sqrt{257}e^{15} + \frac{11}{733}\sqrt{1158}e^{24}, \frac{11}{733}\sqrt{1018}e^{16} + \frac{11}{733}\sqrt{246}e^{25}$	$(\frac{77}{733}, -\frac{22}{733}, -\frac{121}{733}, \frac{154}{733}, \frac{55}{733}, -\frac{44}{733}, -\frac{143}{733}, \frac{132}{733}, \frac{33}{733})$ $+ \frac{66}{733}\sqrt{37}e^4 \otimes e_9$	{236789, 3569}
952:167	$0, 0, 0, 0, \frac{41}{3109}\sqrt{2454}e^{12}, \frac{820}{3109}\sqrt{5}e^{13}, \frac{82}{3109}\sqrt{501}e^{23},$ $\frac{82}{3109}\sqrt{167}e^{15} + \frac{41}{3109}\sqrt{2670}e^{24}, \frac{41}{3109}\sqrt{1554}e^{16} + \frac{41}{3109}\sqrt{2010}e^{25}$	$(-\frac{451}{3109}, \frac{328}{3109}, \frac{1107}{3109}, -\frac{902}{3109}, -\frac{123}{3109}, \frac{656}{3109}, \frac{1435}{3109}, -\frac{574}{3109}, \frac{205}{3109})$ $+ \frac{82}{3109}\sqrt{1338}e^3 \otimes e_8$	{123459, 458}
952:167	$0, 0, 0, 0, \frac{26}{349}\sqrt{37}e^{12}, \frac{13}{349}\sqrt{14}e^{13}, \frac{91}{349}\sqrt{6}e^{23},$ $\frac{13}{349}\sqrt{298}e^{15} + \frac{117}{349}\sqrt{2}e^{24}, \frac{26}{349}\sqrt{34}e^{16} + \frac{26}{349}\sqrt{39}e^{25}$	$(\frac{65}{349}, -\frac{13}{349}, -\frac{91}{349}, \frac{130}{349}, \frac{52}{349}, -\frac{26}{349}, -\frac{104}{349}, \frac{117}{349}, \frac{39}{349})$ $+ \frac{130}{349}\sqrt{6}e^1 \otimes e_7$	{123468, 2456789}
952:168	$0, 0, 0, 0, \frac{98}{689}\sqrt{30}e^{12}, \frac{49}{3445}\sqrt{2018}e^{13}, \frac{441}{3445}\sqrt{22}e^{23},$ $\frac{49}{3445}\sqrt{2346}e^{14} + \frac{49}{3445}\sqrt{1054}e^{25}, \frac{98}{3445}\sqrt{491}e^{15} + \frac{196}{3445}\sqrt{17}e^{36}$	$(\frac{1127}{3445}, -\frac{49}{265}, \frac{49}{689}, -\frac{98}{265}, \frac{98}{689}, \frac{1372}{3445}, -\frac{392}{3445}, -\frac{147}{3445}, \frac{1617}{3445})$ $+ \frac{98}{3445}\sqrt{1473}e^1 \otimes e_4$	{346, 47}
952:168	$0, 0, 0, 0, \frac{17}{2791}\sqrt{2370}e^{12}, \frac{17}{2791}\sqrt{3290}e^{13}, \frac{68}{2791}\sqrt{373}e^{23},$ $\frac{17}{2791}\sqrt{4494}e^{14} + \frac{68}{2791}\sqrt{255}e^{25}, \frac{68}{2791}\sqrt{115}e^{15} + \frac{17}{2791}\sqrt{2582}e^{36}$	$(-\frac{306}{2791}, \frac{272}{2791}, -\frac{17}{2791}, \frac{544}{2791}, -\frac{34}{2791}, -\frac{323}{2791}, \frac{255}{2791}, \frac{238}{2791}, -\frac{340}{2791})$ $+ \frac{68}{2791}\sqrt{345}e^4 \otimes e_7$	{136789, 267}
952:168	$0, 0, 0, 0, \frac{24}{407}\sqrt{10}e^{12}, \frac{160}{407}e^{13}, \frac{192}{407}\sqrt{2}e^{23},$ $\frac{8}{407}\sqrt{606}e^{14} + \frac{16}{407}\sqrt{215}e^{25}, \frac{112}{407}\sqrt{5}e^{15} + \frac{8}{407}\sqrt{658}e^{36}$	$(\frac{8}{37}, -\frac{56}{407}, \frac{16}{407}, -\frac{112}{407}, \frac{32}{407}, \frac{104}{407}, -\frac{40}{407}, -\frac{24}{407}, \frac{120}{407})$ $+ \frac{56}{407}\sqrt{30}e^1 \otimes e_7$	{123469, 3478}
952:168	$0, 0, 0, 0, \frac{13}{3487}\sqrt{1218}e^{12}, \frac{39}{3487}\sqrt{438}e^{13}, \frac{52}{3487}\sqrt{70}e^{23},$ $\frac{13}{3487}\sqrt{1614}e^{14} + \frac{52}{3487}\sqrt{221}e^{25}, \frac{52}{3487}\sqrt{258}e^{15} + \frac{13}{3487}\sqrt{4074}e^{36}$	$(\frac{26}{317}, -\frac{208}{3487}, \frac{39}{3487}, -\frac{416}{3487}, \frac{78}{3487}, \frac{325}{3487}, -\frac{169}{3487}, -\frac{130}{3487}, \frac{364}{3487})$ $+ \frac{156}{3487}\sqrt{43}e^3 \otimes e_8$	{1234579, 4578}
952:168	$0, 0, 0, 0, \frac{212}{3421}\sqrt{30}e^{12}, \frac{265}{3421}\sqrt{58}e^{13}, \frac{159}{3421}\sqrt{122}e^{23},$ $\frac{53}{3421}\sqrt{2814}e^{14} + \frac{53}{3421}\sqrt{1610}e^{25}, \frac{106}{3421}\sqrt{485}e^{15} + \frac{106}{3421}\sqrt{317}e^{36}$	$(-\frac{901}{3421}, \frac{1007}{3421}, \frac{53}{3421}, \frac{2014}{3421}, \frac{106}{3421}, -\frac{848}{3421}, \frac{1060}{3421}, \frac{1113}{3421}, -\frac{795}{3421})$ $+ \frac{106}{3421}\sqrt{1455}e^4 \otimes e_9$	{3579, 569}
952:169	$0, 0, 0, 0, -\frac{153}{596}\sqrt{2}e^{12}, \frac{9}{596}\sqrt{670}e^{13}, \frac{9}{149}\sqrt{26}e^{23},$ $\frac{9}{298}\sqrt{134}e^{15} + \frac{9}{298}\sqrt{238}e^{24}, \frac{27}{596}\sqrt{94}e^{25} + \frac{9}{596}\sqrt{938}e^{36}$	$(-\frac{81}{596}, \frac{45}{298}, \frac{45}{298}, -\frac{81}{298}, \frac{9}{596}, \frac{9}{596}, \frac{45}{149}, -\frac{18}{149}, \frac{99}{596})$ $+ \frac{9}{149}\sqrt{130}e^3 \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:169	$0, 0, 0, 0, \frac{153}{596}\sqrt{2}e^{12}, \frac{9}{596}\sqrt{670}e^{13}, \frac{9}{149}\sqrt{26}e^{23},$ $\frac{9}{298}\sqrt{134}e^{15} + \frac{9}{298}\sqrt{238}e^{24}, \frac{27}{596}\sqrt{94}e^{25} + \frac{9}{596}\sqrt{938}e^{36}$	$(-\frac{81}{596}, \frac{45}{298}, \frac{45}{298}, -\frac{81}{298}, \frac{9}{596}, \frac{9}{596}, \frac{45}{149}, -\frac{18}{149}, \frac{99}{596})$ $+ \frac{9}{149}\sqrt{130}e^3 \otimes e_8$	{123459, 14689, 2346, 458, 123459, 14689, 2346, 458}
952:169	$0, 0, 0, 0, -\frac{17}{564}\sqrt{394}e^{12}, \frac{17}{564}\sqrt{10}e^{13}, \frac{68}{141}\sqrt{3}e^{23},$ $\frac{17}{282}\sqrt{2}e^{15} + \frac{17}{282}\sqrt{190}e^{24}, \frac{17}{564}\sqrt{390}e^{25} + \frac{17}{564}\sqrt{14}e^{36}$	$(\frac{187}{564}, -\frac{17}{94}, -\frac{17}{94}, \frac{187}{282}, \frac{85}{564}, \frac{85}{564}, -\frac{17}{47}, \frac{68}{141}, -\frac{17}{564})$ $+ \frac{34}{141}\sqrt{30}e^4 \otimes e_7$	{125789, 13679, 2678, 357, 125789, 13679, 2678, 357}
952:169	$0, 0, 0, 0, \frac{17}{282}\sqrt{394}e^{12}, \frac{17}{564}\sqrt{10}e^{13}, \frac{68}{141}\sqrt{3}e^{23},$ $\frac{17}{282}\sqrt{2}e^{15} + \frac{17}{282}\sqrt{190}e^{24}, \frac{17}{564}\sqrt{390}e^{25} + \frac{17}{564}\sqrt{14}e^{36}$	$(\frac{187}{564}, -\frac{17}{94}, -\frac{17}{94}, \frac{187}{282}, \frac{85}{564}, \frac{85}{564}, -\frac{17}{47}, \frac{68}{141}, -\frac{17}{564})$ $+ \frac{34}{141}\sqrt{30}e^4 \otimes e_7$	{125789, 13679, 2678, 357, 125789, 13679, 2678, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:169	$0, 0, 0, 0, \frac{143}{277}\sqrt{2}e^{12}, \frac{65}{277}\sqrt{6}e^{13}, \frac{182}{277}e^{23},$ $\frac{26}{277}\sqrt{19}e^{15} + \frac{13}{277}\sqrt{218}e^{24}, \frac{26}{277}\sqrt{51}e^{25} + \frac{52}{277}\sqrt{7}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{130}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^2 \otimes e_4$	{1345679, 1459, 347, 46, 1345679, 1459, 347, 46}
952:169	$0, 0, 0, 0, \frac{143}{277}\sqrt{2}e^{12}, \frac{65}{277}\sqrt{6}e^{13}, \frac{182}{277}e^{23},$ $\frac{26}{277}\sqrt{19}e^{15} + \frac{13}{277}\sqrt{218}e^{24}, \frac{26}{277}\sqrt{51}e^{25} + \frac{52}{277}\sqrt{7}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{130}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^2 \otimes e_4$	{1345679, 1459, 347, 46, 1345679, 1459, 347, 46}
952:172	$0, 0, 0, 0, \frac{68}{2165}\sqrt{97}e^{12}, \frac{68}{2165}\sqrt{286}e^{13}, \frac{68}{2165}\sqrt{727}e^{23},$ $\frac{68}{2165}\sqrt{23}e^{15} + \frac{612}{2165}\sqrt{7}e^{34}, \frac{136}{2165}\sqrt{53}e^{16} + \frac{136}{433}\sqrt{2}e^{25}$	$(\frac{102}{433}, -\frac{68}{2165}, -\frac{646}{2165}, \frac{1598}{2165}, \frac{442}{2165}, -\frac{136}{2165}, -\frac{714}{2165}, \frac{952}{2165}, \frac{374}{2165})$ $+\frac{68}{2165}\sqrt{1803}e^4 \otimes e_7$	{12579, 1489, 234, 3578}
952:172	$0, 0, 0, 0, \frac{68}{2165}\sqrt{97}e^{12}, \frac{68}{2165}\sqrt{286}e^{13}, \frac{68}{2165}\sqrt{727}e^{23},$ $\frac{68}{2165}\sqrt{23}e^{15} + \frac{612}{2165}\sqrt{7}e^{34}, \frac{136}{2165}\sqrt{53}e^{16} + \frac{136}{433}\sqrt{2}e^{25}$	$(\frac{102}{433}, -\frac{68}{2165}, -\frac{646}{2165}, \frac{1598}{2165}, \frac{442}{2165}, -\frac{136}{2165}, -\frac{714}{2165}, \frac{952}{2165}, \frac{374}{2165})$ $-\frac{68}{2165}\sqrt{1803}e^4 \otimes e_7$	{12579, 1489, 234, 3578}
952:172	$0, 0, 0, 0, \frac{10}{533}\sqrt{34}e^{12}, \frac{160}{533}e^{13}, \frac{40}{533}\sqrt{69}e^{23},$ $\frac{20}{533}\sqrt{223}e^{15} + \frac{30}{533}\sqrt{74}e^{34}, \frac{10}{533}\sqrt{670}e^{16} + \frac{20}{533}\sqrt{201}e^{25}$	$(\frac{70}{533}, -\frac{20}{533}, -\frac{110}{533}, \frac{230}{533}, \frac{50}{533}, -\frac{40}{533}, -\frac{10}{41}, \frac{120}{533}, \frac{30}{533})$ $+\frac{10}{533}\sqrt{1878}e^1 \otimes e_7$	{1456, 3679}
952:172	$0, 0, 0, 0, \frac{31}{1033}\sqrt{587}e^{12}, \frac{31}{1033}\sqrt{745}e^{13}, \frac{279}{1033}\sqrt{11}e^{23},$ $\frac{31}{1033}\sqrt{35}e^{15} + \frac{31}{1033}\sqrt{438}e^{34}, \frac{62}{1033}\sqrt{103}e^{16} + \frac{31}{1033}\sqrt{327}e^{25}$	$(-\frac{124}{1033}, \frac{155}{1033}, \frac{434}{1033}, \frac{527}{1033}, \frac{31}{1033}, \frac{310}{1033}, \frac{589}{1033}, -\frac{93}{1033}, \frac{186}{1033})$ $+\frac{31}{1033}\sqrt{1779}e^3 \otimes e_4$	{1379, 45}
952:172	$0, 0, 0, 0, \frac{10}{533}\sqrt{34}e^{12}, \frac{160}{533}e^{13}, \frac{30}{533}\sqrt{86}e^{23},$ $\frac{10}{533}\sqrt{986}e^{15} + \frac{20}{533}\sqrt{303}e^{34}, \frac{10}{533}\sqrt{670}e^{16} + \frac{10}{533}\sqrt{1074}e^{25}$	$(\frac{70}{533}, -\frac{20}{533}, -\frac{110}{533}, \frac{230}{533}, \frac{50}{533}, -\frac{40}{533}, -\frac{10}{41}, \frac{120}{533}, \frac{30}{533})$ $+\frac{10}{533}\sqrt{1878}e^4 \otimes e_9$	{13589, 478}
952:173	$0, 0, 0, 0, -\frac{52}{277}\sqrt{7}e^{12}, \frac{26}{277}\sqrt{51}e^{13}, \frac{182}{277}e^{23},$ $\frac{26}{277}\sqrt{19}e^{15} + \frac{13}{277}\sqrt{218}e^{34}, \frac{65}{277}\sqrt{6}e^{25} + \frac{143}{277}\sqrt{2}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{130}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^3 \otimes e_4$	{12359, 1245679, 236, 247, 12359, 1245679, 236, 247}
952:173	$0, 0, 0, 0, \frac{52}{277}\sqrt{7}e^{12}, \frac{26}{277}\sqrt{51}e^{13}, \frac{182}{277}e^{23},$ $\frac{26}{277}\sqrt{19}e^{15} + \frac{13}{277}\sqrt{218}e^{34}, \frac{65}{277}\sqrt{6}e^{25} + \frac{143}{277}\sqrt{2}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{130}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^3 \otimes e_4$	{12359, 1245679, 236, 247, 12359, 1245679, 236, 247}
952:173	$0, 0, 0, 0, -\frac{5}{233}\sqrt{385}e^{12}, \frac{5}{233}\sqrt{165}e^{13}, \frac{5}{233}\sqrt{1010}e^{23},$ $\frac{5}{233}\sqrt{790}e^{15} + \frac{5}{233}\sqrt{1230}e^{34}, \frac{5}{233}\sqrt{1285}e^{25} + \frac{25}{233}\sqrt{11}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{10}{233}\sqrt{505}e^4 \otimes e_9$	{1269, 13589, 234567, 478, 1269, 13589, 234567, 478}
952:173	$0, 0, 0, 0, \frac{5}{233}\sqrt{385}e^{12}, \frac{5}{233}\sqrt{165}e^{13}, \frac{5}{233}\sqrt{1010}e^{23},$ $\frac{5}{233}\sqrt{790}e^{15} + \frac{5}{233}\sqrt{1230}e^{34}, \frac{5}{233}\sqrt{1285}e^{25} + \frac{25}{233}\sqrt{11}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{10}{233}\sqrt{505}e^4 \otimes e_9$	{1269, 13589, 234567, 478, 1269, 13589, 234567, 478}
952:175	$0, 0, 0, 0, \frac{35}{2377}\sqrt{798}e^{12}, \frac{35}{2377}\sqrt{2698}e^{13}, \frac{70}{2377}\sqrt{213}e^{23},$ $\frac{280}{2377}\sqrt{38}e^{25} + \frac{35}{2377}\sqrt{3354}e^{34}, \frac{35}{2377}\sqrt{3638}e^{15} + \frac{35}{2377}\sqrt{1030}e^{36}$	$(-\frac{595}{2377}, \frac{665}{2377}, \frac{35}{2377}, \frac{700}{2377}, \frac{70}{2377}, -\frac{560}{2377}, \frac{700}{2377}, \frac{735}{2377}, -\frac{525}{2377})$ $+\frac{35}{2377}\sqrt{4206}e^4 \otimes e_9$	{1279, 468}
952:175	$0, 0, 0, 0, \frac{12}{71}\sqrt{2}e^{12}, \frac{4}{71}\sqrt{71}e^{13}, \frac{8}{71}\sqrt{3}e^{23},$ $\frac{4}{71}\sqrt{43}e^{25} + \frac{12}{71}\sqrt{6}e^{34}, \frac{4}{71}\sqrt{58}e^{15} + \frac{4}{71}\sqrt{65}e^{36}$	$(\frac{10}{71}, -\frac{8}{71}, \frac{1}{71}, -\frac{7}{71}, \frac{2}{71}, \frac{11}{71}, -\frac{7}{71}, -\frac{6}{71}, \frac{12}{71})$ $+\frac{4}{71}\sqrt{66}e^3 \otimes e_4$	{123579, 124569}
952:175	$0, 0, 0, 0, \frac{11}{265}\sqrt{122}e^{12}, \frac{11}{265}\sqrt{158}e^{13}, \frac{11}{265}\sqrt{322}e^{23},$ $\frac{11}{265}\sqrt{274}e^{25} + \frac{22}{265}\sqrt{37}e^{34}, \frac{22}{265}\sqrt{103}e^{15} + \frac{11}{265}\sqrt{274}e^{36}$	$(\frac{77}{265}, -\frac{11}{53}, \frac{11}{265}, -\frac{44}{265}, \frac{22}{265}, \frac{88}{265}, -\frac{44}{265}, -\frac{33}{265}, \frac{99}{265})$ $+\frac{11}{265}\sqrt{470}e^1 \otimes e_7$	{123469, 378}
952:177	$0, 0, 0, 0, \frac{41}{3893}\sqrt{3790}e^{12}, \frac{82}{3893}\sqrt{582}e^{13}, \frac{82}{3893}\sqrt{929}e^{14},$ $\frac{41}{3893}\sqrt{3598}e^{15} + \frac{41}{3893}\sqrt{4474}e^{23}, \frac{41}{3893}\sqrt{1698}e^{16} + \frac{984}{3893}e^{25}$	$(\frac{246}{3893}, \frac{369}{3893}, \frac{492}{3893}, -\frac{1435}{3893}, \frac{615}{3893}, \frac{738}{3893}, -\frac{1189}{3893}, \frac{861}{3893}, \frac{984}{3893})$ $+\frac{82}{3893}\sqrt{1735}e^3 \otimes e_7$	{2478, 457}
952:177	$0, 0, 0, 0, \frac{13}{1341}\sqrt{2190}e^{12}, \frac{13}{1341}\sqrt{210}e^{13}, \frac{13}{1341}\sqrt{3774}e^{14},$ $\frac{52}{1341}\sqrt{78}e^{15} + \frac{104}{1341}\sqrt{30}e^{23}, \frac{26}{1341}\sqrt{582}e^{16} + \frac{91}{1341}\sqrt{66}e^{25}$	$(\frac{26}{447}, \frac{13}{149}, \frac{52}{447}, -\frac{52}{149}, \frac{65}{447}, \frac{26}{149}, -\frac{130}{447}, \frac{91}{447}, \frac{104}{447})$ $+\frac{26}{1341}\sqrt{1770}e^2 \otimes e_7$	{123469, 1356789}
952:177	$0, 0, 0, 0, \frac{85}{1301}\sqrt{42}e^{12}, \frac{17}{1301}\sqrt{2154}e^{13}, \frac{17}{1301}\sqrt{3318}e^{14},$ $\frac{68}{1301}\sqrt{102}e^{15} + \frac{714}{1301}\sqrt{2}e^{23}, \frac{408}{1301}e^{16} + \frac{51}{1301}\sqrt{134}e^{25}$	$(-\frac{34}{1301}, -\frac{51}{1301}, -\frac{68}{1301}, \frac{748}{1301}, -\frac{85}{1301}, -\frac{102}{1301}, \frac{714}{1301}, -\frac{119}{1301}, -\frac{136}{1301})$ $+\frac{102}{1301}\sqrt{190}e^4 \otimes e_8$	{1234569, 136789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:177	$0, 0, 0, 0, \frac{615}{3893} \sqrt{14}e^{12}, \frac{82}{3893} \sqrt{582}e^{13}, \frac{82}{3893} \sqrt{806}e^{14},$ $\frac{41}{3893} \sqrt{3342}e^{15} + \frac{123}{3893} \sqrt{274}e^{23}, \frac{41}{3893} \sqrt{1698}e^{16} + \frac{984}{3893} e^{25}$	$(\frac{246}{3893}, \frac{369}{3893}, \frac{492}{3893}, -\frac{1435}{3893}, \frac{615}{3893}, \frac{738}{3893}, -\frac{1189}{3893}, \frac{861}{3893}, \frac{984}{3893})$ $+ \frac{82}{3893} \sqrt{1735}e^1 \otimes e_4$	{2345689, 3469}
952:177	$0, 0, 0, 0, \frac{53}{1359} \sqrt{230}e^{12}, \frac{212}{4077} \sqrt{37}e^{13}, \frac{106}{1359} \sqrt{94}e^{14},$ $\frac{53}{4077} \sqrt{2922}e^{15} + \frac{53}{4077} \sqrt{1006}e^{23}, \frac{53}{4077} \sqrt{2402}e^{16} + \frac{106}{1359} \sqrt{71}e^{25}$	$(-\frac{106}{4077}, -\frac{53}{1359}, -\frac{212}{4077}, \frac{265}{453}, -\frac{265}{4077}, -\frac{106}{1359}, \frac{2279}{4077}, -\frac{371}{4077}, -\frac{424}{4077})$ $+ \frac{106}{4077} \sqrt{1745}e^4 \otimes e_9$	{124568, 146}
952:178	$0, 0, 0, 0, \frac{11}{466} \sqrt{1110}e^{12}, \frac{11}{233} \sqrt{102}e^{13}, \frac{11}{466} \sqrt{746}e^{24},$ $\frac{11}{466} \sqrt{30}e^{15} + \frac{11}{466} \sqrt{318}e^{23}, \frac{33}{466} \sqrt{70}e^{16} + \frac{11}{233} \sqrt{246}e^{25}$	$(\frac{33}{466}, \frac{99}{932}, \frac{33}{233}, -\frac{385}{932}, \frac{165}{932}, \frac{99}{466}, -\frac{143}{466}, \frac{231}{932}, \frac{66}{233})$ $+ \frac{143}{466} \sqrt{10}e^2 \otimes e_4$	{12369, 1345689}
952:178	$0, 0, 0, 0, \frac{4}{199} \sqrt{1110}e^{12}, \frac{4}{199} \sqrt{970}e^{13}, \frac{4}{199} \sqrt{970}e^{24},$ $\frac{4}{199} \sqrt{590}e^{15} + \frac{8}{199} \sqrt{195}e^{23}, \frac{8}{199} \sqrt{210}e^{16} + \frac{4}{199} \sqrt{590}e^{25}$	$(\frac{12}{199}, \frac{18}{199}, \frac{24}{199}, -\frac{74}{199}, \frac{30}{199}, \frac{36}{199}, -\frac{56}{199}, \frac{42}{199}, \frac{48}{199})$ $+ \frac{16}{199} \sqrt{110}e^3 \otimes e_7$	{278, 457}
952:178	$0, 0, 0, 0, \frac{26}{499} \sqrt{95}e^{12}, \frac{26}{499} \sqrt{53}e^{13}, \frac{13}{499} \sqrt{826}e^{24},$ $\frac{130}{499} \sqrt{7}e^{15} + \frac{13}{499} \sqrt{582}e^{23}, \frac{13}{499} \sqrt{210}e^{16} + \frac{78}{499} \sqrt{19}e^{25}$	$(-\frac{13}{499}, -\frac{39}{998}, -\frac{26}{499}, \frac{585}{998}, -\frac{65}{998}, -\frac{39}{499}, \frac{273}{499}, -\frac{91}{998}, -\frac{52}{499})$ $+ \frac{13}{499} \sqrt{1730}e^4 \otimes e_8$	{234, 358}
952:178	$0, 0, 0, 0, \frac{5}{59} \sqrt{6}e^{12}, \frac{3}{59} \sqrt{70}e^{13}, \frac{2}{59} \sqrt{249}e^{24},$ $\frac{2}{59} \sqrt{159}e^{15} + \frac{2}{59} \sqrt{138}e^{23}, \frac{10}{59} \sqrt{6}e^{16} + \frac{1}{59} \sqrt{462}e^{25}$	$(\frac{3}{59}, \frac{9}{118}, \frac{6}{59}, -\frac{39}{118}, \frac{15}{59}, \frac{9}{59}, -\frac{15}{59}, \frac{21}{118}, \frac{12}{59})$ $+ \frac{1}{59} \sqrt{1830}e^1 \otimes e_7$	{2356789, 34679}
952:178	$0, 0, 0, 0, \frac{108}{521} \sqrt{10}e^{12}, \frac{27}{1042} \sqrt{489}e^{13}, \frac{27}{1042} \sqrt{842}e^{24},$ $\frac{27}{1042} \sqrt{446}e^{15} + \frac{27}{1042} \sqrt{62}e^{23}, \frac{27}{1042} \sqrt{970}e^{16} + \frac{27}{521} \sqrt{65}e^{25}$	$(-\frac{27}{1042}, -\frac{81}{2084}, -\frac{27}{521}, \frac{621}{1042}, -\frac{135}{2084}, -\frac{81}{1042}, \frac{1161}{2084}, -\frac{189}{2084}, -\frac{54}{521})$ $+ \frac{27}{1042} \sqrt{1765}e^4 \otimes e_9$	{236789, 3569}
952:179	$0, 0, 0, 0, -\frac{29}{1269} \sqrt{466}e^{12}, \frac{116}{1269} \sqrt{42}e^{13}, \frac{232}{1269} \sqrt{17}e^{14},$ $\frac{58}{1269} \sqrt{103}e^{15} + \frac{29}{1269} \sqrt{1286}e^{23}, \frac{580}{1269} e^{25} + \frac{29}{1269} \sqrt{194}e^{36}$	$(-\frac{29}{1269}, -\frac{58}{1269}, -\frac{58}{1269}, \frac{725}{1269}, -\frac{29}{423}, -\frac{29}{423}, \frac{232}{423}, -\frac{116}{1269}, -\frac{145}{1269})$ $+ \frac{29}{1269} \sqrt{2234}e^4 \otimes e_8$	{1234569, 136789, 2347, 358, 1234569, 136789, 2347, 358}
952:179	$0, 0, 0, 0, \frac{29}{1269} \sqrt{466}e^{12}, \frac{116}{1269} \sqrt{42}e^{13}, \frac{232}{1269} \sqrt{17}e^{14},$ $\frac{58}{1269} \sqrt{103}e^{15} + \frac{29}{1269} \sqrt{1286}e^{23}, \frac{580}{1269} e^{25} + \frac{29}{1269} \sqrt{194}e^{36}$	$(-\frac{29}{1269}, -\frac{58}{1269}, -\frac{58}{1269}, \frac{725}{1269}, -\frac{29}{423}, -\frac{29}{423}, \frac{232}{423}, -\frac{116}{1269}, -\frac{145}{1269})$ $+ \frac{29}{1269} \sqrt{2234}e^4 \otimes e_8$	{1234569, 136789, 2347, 358, 1234569, 136789, 2347, 358}
952:179	$0, 0, 0, 0, -\frac{23}{1301} \sqrt{895}e^{12}, \frac{345}{1301} \sqrt{3}e^{13}, \frac{46}{1301} \sqrt{305}e^{14},$ $\frac{23}{1301} \sqrt{838}e^{15} + \frac{23}{1301} \sqrt{1090}e^{23}, \frac{69}{1301} \sqrt{19}e^{25} + \frac{23}{1301} \sqrt{561}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301} \sqrt{2302}e^3 \otimes e_7$	{1256789, 1679, 2478, 457, 1256789, 1679, 2478, 457}
952:179	$0, 0, 0, 0, \frac{23}{1301} \sqrt{895}e^{12}, \frac{345}{1301} \sqrt{3}e^{13}, \frac{46}{1301} \sqrt{305}e^{14},$ $\frac{23}{1301} \sqrt{838}e^{15} + \frac{23}{1301} \sqrt{1090}e^{23}, \frac{69}{1301} \sqrt{19}e^{25} + \frac{23}{1301} \sqrt{561}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301} \sqrt{2302}e^3 \otimes e_7$	{1256789, 1679, 2478, 457, 1256789, 1679, 2478, 457}
952:179	$0, 0, 0, 0, -\frac{368}{1301} e^{12}, \frac{46}{1301} \sqrt{119}e^{13}, \frac{46}{1301} \sqrt{305}e^{14},$ $\frac{23}{1301} \sqrt{838}e^{15} + \frac{23}{1301} \sqrt{1090}e^{23}, \frac{322}{1301} \sqrt{5}e^{25} + \frac{23}{1301} \sqrt{590}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301} \sqrt{2302}e^2 \otimes e_7$	{123469, 1356789, 235, 3478, 123469, 1356789, 235, 3478}
952:179	$0, 0, 0, 0, -\frac{368}{1301} e^{12}, \frac{46}{1301} \sqrt{119}e^{13}, \frac{46}{1301} \sqrt{305}e^{14},$ $\frac{23}{1301} \sqrt{838}e^{15} + \frac{23}{1301} \sqrt{1090}e^{23}, \frac{322}{1301} \sqrt{5}e^{25} + \frac{23}{1301} \sqrt{590}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301} \sqrt{2302}e^2 \otimes e_7$	{123469, 1356789, 235, 3478, 123469, 1356789, 235, 3478}
952:181	$0, 0, 0, 0, -\frac{11}{676} \sqrt{786}e^{12}, \frac{11}{676} \sqrt{1102}e^{13}, \frac{11}{169} \sqrt{82}e^{24},$ $\frac{11}{338} \sqrt{26}e^{15} + \frac{33}{169} \sqrt{2}e^{23}, \frac{11}{676} \sqrt{734}e^{25} + \frac{55}{676} \sqrt{42}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338} \sqrt{590}e^3 \otimes e_7$	{1256789, 14679, 278, 457, 1256789, 14679, 278, 457}
952:181	$0, 0, 0, 0, \frac{11}{676} \sqrt{786}e^{12}, \frac{11}{676} \sqrt{1102}e^{13}, \frac{11}{169} \sqrt{82}e^{24},$ $\frac{11}{338} \sqrt{26}e^{15} + \frac{33}{169} \sqrt{2}e^{23}, \frac{11}{676} \sqrt{734}e^{25} + \frac{55}{676} \sqrt{42}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338} \sqrt{590}e^3 \otimes e_7$	{1256789, 14679, 278, 457, 1256789, 14679, 278, 457}
952:181	$0, 0, 0, 0, -\frac{13}{604} \sqrt{942}e^{12}, \frac{39}{604} \sqrt{42}e^{13}, \frac{13}{151} \sqrt{59}e^{24},$ $\frac{39}{302} \sqrt{14}e^{15} + \frac{13}{151} \sqrt{57}e^{23}, \frac{13}{604} \sqrt{1194}e^{25} + \frac{39}{604} \sqrt{70}e^{36}$	$(\frac{39}{604}, \frac{39}{302}, \frac{39}{302}, -\frac{65}{151}, \frac{117}{604}, \frac{117}{604}, -\frac{91}{302}, \frac{39}{151}, \frac{195}{604})$ $+ \frac{65}{302} \sqrt{22}e^2 \otimes e_4$	{12369, 1345689, 235, 348, 12369, 1345689, 235, 348}
952:181	$0, 0, 0, 0, \frac{13}{604} \sqrt{942}e^{12}, \frac{39}{604} \sqrt{42}e^{13}, \frac{13}{151} \sqrt{59}e^{24},$ $\frac{39}{302} \sqrt{14}e^{15} + \frac{13}{151} \sqrt{57}e^{23}, \frac{13}{604} \sqrt{1194}e^{25} + \frac{39}{604} \sqrt{70}e^{36}$	$(\frac{39}{604}, \frac{39}{302}, \frac{39}{302}, -\frac{65}{151}, \frac{117}{604}, \frac{117}{604}, -\frac{91}{302}, \frac{39}{151}, \frac{195}{604})$ $+ \frac{65}{302} \sqrt{22}e^2 \otimes e_4$	{12369, 1345689, 235, 348, 12369, 1345689, 235, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:183	$0, 0, 0, 0, \frac{165}{4261} \sqrt{34}e^{12}, \frac{110}{4261} \sqrt{11}e^{13}, \frac{110}{4261} \sqrt{838}e^{34},$ $\frac{55}{4261} \sqrt{658}e^{15} + \frac{55}{4261} \sqrt{1490}e^{23}, \frac{55}{4261} \sqrt{1994}e^{16} + \frac{110}{4261} \sqrt{723}e^{25}$	$(-\frac{110}{4261}, -\frac{165}{4261}, -\frac{220}{4261}, \frac{2585}{4261}, -\frac{275}{4261}, -\frac{330}{4261}, \frac{2365}{4261}, -\frac{385}{4261}, -\frac{440}{4261})$ $+ \frac{110}{4261} \sqrt{1786}e^4 \otimes e_9$	{129, 1589}
952:183	$0, 0, 0, 0, \frac{370}{4211} \sqrt{51}e^{12}, \frac{74}{4211} \sqrt{707}e^{13}, \frac{37}{4211} \sqrt{4090}e^{34},$ $\frac{1406}{4211} e^{15} + \frac{74}{4211} \sqrt{255}e^{23}, \frac{37}{4211} \sqrt{3030}e^{16} + \frac{74}{4211} \sqrt{919}e^{25}$	$(\frac{222}{4211}, \frac{333}{4211}, \frac{444}{4211}, -\frac{1480}{4211}, \frac{555}{4211}, \frac{666}{4211}, -\frac{1036}{4211}, \frac{777}{4211}, \frac{888}{4211})$ $+ \frac{74}{4211} \sqrt{1823}e^2 \otimes e_7$	{1234689, 135679}
952:183	$0, 0, 0, 0, \frac{35}{4349} \sqrt{4106}e^{12}, \frac{70}{4349} \sqrt{21}e^{13}, \frac{70}{4349} \sqrt{1034}e^{34},$ $\frac{35}{4349} \sqrt{3998}e^{15} + \frac{35}{4349} \sqrt{3794}e^{23}, \frac{105}{4349} \sqrt{10}e^{16} + \frac{630}{4349} e^{25}$	$(\frac{210}{4349}, \frac{315}{4349}, \frac{420}{4349}, -\frac{1435}{4349}, \frac{525}{4349}, \frac{630}{4349}, -\frac{1015}{4349}, \frac{735}{4349}, \frac{840}{4349})$ $+ \frac{70}{4349} \sqrt{1858}e^1 \otimes e_7$	{123489, 13459}
952:183	$0, 0, 0, 0, \frac{106}{1361} \sqrt{326}e^{12}, \frac{106}{1361} \sqrt{79}e^{13}, \frac{53}{4083} \sqrt{3290}e^{34},$ $\frac{106}{1361} \sqrt{110}e^{15} + \frac{106}{4083} \sqrt{285}e^{23}, \frac{53}{4083} \sqrt{1046}e^{16} + \frac{106}{4083} \sqrt{241}e^{25}$	$(-\frac{106}{4083}, -\frac{53}{1361}, -\frac{212}{4083}, \frac{2438}{4083}, -\frac{265}{4083}, -\frac{106}{1361}, \frac{742}{1361}, -\frac{371}{4083}, -\frac{424}{4083})$ $+ \frac{106}{4083} \sqrt{1751}e^4 \otimes e_8$	{128, 1457}
952:183	$0, 0, 0, 0, \frac{47}{3581} \sqrt{3714}e^{12}, \frac{282}{3581} \sqrt{113}e^{13}, \frac{94}{3581} \sqrt{683}e^{34},$ $\frac{141}{3581} \sqrt{366}e^{15} + \frac{423}{3581} \sqrt{58}e^{23}, \frac{47}{3581} \sqrt{2946}e^{16} + \frac{282}{3581} \sqrt{35}e^{25}$	$(\frac{282}{3581}, \frac{423}{3581}, \frac{564}{3581}, -\frac{1645}{3581}, \frac{705}{3581}, \frac{846}{3581}, -\frac{1081}{3581}, \frac{987}{3581}, \frac{1128}{3581})$ $+ \frac{376}{3581} \sqrt{103}e^3 \otimes e_4$	{248, 45}
952:184	$0, 0, 0, 0, -\frac{55}{676} \sqrt{42}e^{12}, \frac{11}{676} \sqrt{734}e^{13}, \frac{11}{169} \sqrt{82}e^{34},$ $\frac{11}{338} \sqrt{26}e^{15} + \frac{33}{169} \sqrt{2}e^{23}, \frac{11}{676} \sqrt{1102}e^{25} + \frac{11}{676} \sqrt{786}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338} \sqrt{590}e^2 \otimes e_7$	{123469, 1356789, 2345, 378, 123469, 1356789, 2345, 378}
952:184	$0, 0, 0, 0, \frac{55}{676} \sqrt{42}e^{12}, \frac{11}{676} \sqrt{734}e^{13}, \frac{11}{169} \sqrt{82}e^{34},$ $\frac{11}{338} \sqrt{26}e^{15} + \frac{33}{169} \sqrt{2}e^{23}, \frac{11}{676} \sqrt{1102}e^{25} + \frac{11}{676} \sqrt{786}e^{36}$	$(\frac{33}{676}, \frac{33}{338}, \frac{33}{338}, -\frac{121}{338}, \frac{99}{676}, \frac{99}{676}, -\frac{44}{169}, \frac{33}{169}, \frac{165}{676})$ $+ \frac{11}{338} \sqrt{590}e^2 \otimes e_7$	{123469, 1356789, 2345, 378, 123469, 1356789, 2345, 378}
952:184	$0, 0, 0, 0, -\frac{39}{604} \sqrt{70}e^{12}, \frac{13}{604} \sqrt{1194}e^{13}, \frac{13}{604} \sqrt{59}e^{34},$ $\frac{39}{302} \sqrt{14}e^{15} + \frac{13}{151} \sqrt{57}e^{23}, \frac{39}{604} \sqrt{42}e^{25} + \frac{13}{604} \sqrt{942}e^{36}$	$(\frac{39}{604}, \frac{39}{302}, \frac{39}{302}, -\frac{65}{338}, \frac{117}{604}, \frac{117}{604}, -\frac{91}{302}, \frac{39}{151}, \frac{195}{604})$ $+ \frac{65}{302} \sqrt{22}e^3 \otimes e_4$	{1245689, 1469, 248, 45, 1245689, 1469, 248, 45}
952:184	$0, 0, 0, 0, \frac{39}{604} \sqrt{70}e^{12}, \frac{13}{604} \sqrt{1194}e^{13}, \frac{13}{151} \sqrt{59}e^{34},$ $\frac{39}{302} \sqrt{14}e^{15} + \frac{13}{151} \sqrt{57}e^{23}, \frac{39}{604} \sqrt{42}e^{25} + \frac{13}{604} \sqrt{942}e^{36}$	$(\frac{39}{604}, \frac{39}{302}, \frac{39}{302}, -\frac{65}{338}, \frac{117}{604}, \frac{117}{604}, -\frac{91}{302}, \frac{39}{151}, \frac{195}{604})$ $+ \frac{65}{302} \sqrt{22}e^3 \otimes e_4$	{1245689, 1469, 248, 45, 1245689, 1469, 248, 45}
952:184	$0, 0, 0, 0, -\frac{2}{143} \sqrt{1370}e^{12}, \frac{2}{143} \sqrt{30}e^{13}, \frac{4}{143} \sqrt{335}e^{34},$ $\frac{4}{143} \sqrt{335}e^{15} + \frac{32}{143} \sqrt{5}e^{23}, \frac{2}{143} \sqrt{10}e^{25} + \frac{6}{143} \sqrt{10}e^{36}$	$(\frac{6}{143}, \frac{12}{143}, \frac{12}{143}, -\frac{46}{143}, \frac{18}{143}, \frac{18}{143}, -\frac{34}{143}, \frac{24}{143}, \frac{30}{143})$ $+ \frac{4}{143} \sqrt{610}e^1 \otimes e_7$	{123489, 13459, 235678, 367, 123489, 13459, 235678, 367}
952:184	$0, 0, 0, 0, \frac{2}{143} \sqrt{1370}e^{12}, \frac{2}{143} \sqrt{30}e^{13}, \frac{4}{143} \sqrt{335}e^{34},$ $\frac{4}{143} \sqrt{335}e^{15} + \frac{32}{143} \sqrt{5}e^{23}, \frac{2}{143} \sqrt{10}e^{25} + \frac{6}{143} \sqrt{10}e^{36}$	$(\frac{6}{143}, \frac{12}{143}, \frac{12}{143}, -\frac{46}{143}, \frac{18}{143}, \frac{18}{143}, -\frac{34}{143}, \frac{24}{143}, \frac{30}{143})$ $+ \frac{4}{143} \sqrt{610}e^1 \otimes e_7$	{123489, 13459, 235678, 367, 123489, 13459, 235678, 367}
952:186	$0, 0, 0, 0, \frac{8}{41} \sqrt{7}e^{12}, \frac{8}{41} \sqrt{7}e^{13}, \frac{4}{41} \sqrt{6}e^{23},$ $\frac{4}{41} \sqrt{46}e^{16} + \frac{8}{41} \sqrt{6}e^{25}, \frac{4}{41} \sqrt{46}e^{15} + \frac{8}{41} \sqrt{6}e^{36}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41} \sqrt{138}e^1 \otimes e_4$	{156, 2345689}
952:186	$0, 0, 0, 0, \frac{1}{3} e^{12}, \frac{2}{3} e^{13}, \frac{1}{3} \sqrt{3}e^{23}, \frac{1}{3} \sqrt{5}e^{16} + \frac{1}{3} \sqrt{7}e^{25},$ $\frac{1}{3} \sqrt{5}e^{15} + \frac{1}{3} \sqrt{2}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{3} \sqrt{15}e^4 \otimes e_8$	{124569, 3568}
952:186	$0, 0, 0, 0, \frac{2}{17} \sqrt{34}e^{12}, \frac{2}{17} \sqrt{34}e^{13}, \frac{1}{17} \sqrt{442}e^{23},$ $\frac{1}{17} \sqrt{170}e^{16} + \frac{2}{17} \sqrt{238}e^{25}, \frac{1}{17} \sqrt{170}e^{15} + \frac{1}{17} \sqrt{238}e^{36}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{17} \sqrt{510}e^4 \otimes e_7$	{1489, 234}
952:186	$0, 0, 0, 0, \frac{1}{289} \sqrt{74}e^{12}, \frac{1}{289} \sqrt{74}e^{13}, \frac{1}{289} \sqrt{510}e^{23},$ $\frac{2}{289} \sqrt{91}e^{16} + \frac{1}{289} \sqrt{402}e^{25}, \frac{1}{289} \sqrt{91}e^{15} + \frac{1}{289} \sqrt{402}e^{36}$	$(-\frac{1}{289}, -\frac{1}{289}, -\frac{1}{289}, \frac{16}{289}, -\frac{2}{289}, -\frac{2}{289}, -\frac{2}{289}, -\frac{3}{289}, -\frac{3}{289})$ $+ \frac{1}{289} \sqrt{546}e^1 \otimes e_7$	{1489, 189}
952:189	$0, 0, 0, 0, \frac{16}{265} \sqrt{66}e^{12}, \frac{16}{265} \sqrt{66}e^{13}, \frac{16}{265} \sqrt{107}e^{14},$ $\frac{96}{265} \sqrt{3}e^{16} + \frac{48}{265} \sqrt{7}e^{25}, \frac{96}{265} \sqrt{3}e^{15} + \frac{48}{265} \sqrt{7}e^{36}$	$(\frac{24}{265}, \frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{48}{265}, -\frac{16}{53}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{16}{265} \sqrt{238}e^1 \otimes e_4$	{156, 2345689}
952:189	$0, 0, 0, 0, \frac{40}{861} \sqrt{123}e^{12}, \frac{80}{861} \sqrt{15}e^{13}, \frac{60}{287} \sqrt{13}e^{14},$ $\frac{20}{861} \sqrt{570}e^{16} + \frac{20}{861} \sqrt{969}e^{25}, \frac{20}{861} \sqrt{894}e^{15} + \frac{20}{861} \sqrt{237}e^{36}$	$(-\frac{10}{287}, -\frac{10}{287}, -\frac{10}{287}, \frac{170}{287}, -\frac{20}{287}, -\frac{20}{287}, \frac{160}{287}, -\frac{30}{287}, -\frac{30}{287})$ $+ \frac{40}{287} \sqrt{61}e^4 \otimes e_8$	{124569, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:189	$0, 0, 0, 0, \frac{182}{867}\sqrt{6}e^{12}, \frac{28}{867}\sqrt{123}e^{13}, \frac{28}{289}\sqrt{34}e^{14},$ $\frac{14}{867}\sqrt{1173}e^{16} + \frac{14}{867}\sqrt{1398}e^{25}, \frac{28}{867}\sqrt{105}e^{15} + \frac{14}{867}\sqrt{645}e^{36}$	$(\frac{21}{289}, \frac{21}{289}, \frac{21}{289}, -\frac{98}{289}, \frac{42}{289}, \frac{42}{289}, -\frac{77}{289}, \frac{63}{289}, \frac{63}{289})$ $+ \frac{14}{289}\sqrt{251}e^2 \otimes e_7$	{123468, 4679}
952:191	$0, 0, 0, 0, \frac{16}{265}\sqrt{181}e^{12}, \frac{112}{265}e^{13}, \frac{16}{265}\sqrt{107}e^{24},$ $\frac{16}{265}\sqrt{122}e^{16} + \frac{16}{265}\sqrt{167}e^{25}, \frac{16}{265}\sqrt{7}e^{15} + \frac{32}{265}\sqrt{13}e^{36}$	$(\frac{24}{265}, \frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{48}{265}, -\frac{16}{53}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{16}{265}\sqrt{238}e^2 \otimes e_4$	{12368, 469}
952:191	$0, 0, 0, 0, \frac{140}{289}e^{12}, \frac{14}{289}\sqrt{158}e^{13}, \frac{28}{289}\sqrt{34}e^{24},$ $\frac{28}{289}\sqrt{11}e^{16} + \frac{14}{289}\sqrt{19}e^{25}, \frac{14}{289}\sqrt{85}e^{15} + \frac{14}{289}\sqrt{110}e^{36}$	$(\frac{21}{289}, \frac{21}{289}, \frac{21}{289}, -\frac{98}{289}, \frac{42}{289}, \frac{42}{289}, -\frac{77}{289}, \frac{63}{289}, \frac{63}{289})$ $+ \frac{14}{289}\sqrt{251}e^3 \otimes e_7$	{1234589, 457}
952:191	$0, 0, 0, 0, \frac{20}{861}\sqrt{843}e^{12}, \frac{20}{861}\sqrt{591}e^{13}, \frac{60}{287}\sqrt{13}e^{24},$ $\frac{40}{861}\sqrt{318}e^{16} + \frac{20}{861}\sqrt{267}e^{25}, \frac{20}{861}\sqrt{543}e^{15} + \frac{20}{861}\sqrt{114}e^{36}$	$(-\frac{10}{287}, -\frac{10}{287}, -\frac{10}{287}, \frac{170}{287}, -\frac{20}{287}, -\frac{20}{287}, \frac{160}{287}, -\frac{30}{287}, -\frac{30}{287})$ $+ \frac{40}{287}\sqrt{61}e^4 \otimes e_8$	{1467, 236789}
952:191	$0, 0, 0, 0, \frac{98}{867}\sqrt{3}e^{12}, \frac{14}{867}\sqrt{669}e^{13}, \frac{28}{289}\sqrt{34}e^{24},$ $\frac{14}{867}\sqrt{1149}e^{16} + \frac{28}{867}\sqrt{231}e^{25}, \frac{14}{867}\sqrt{741}e^{15} + \frac{28}{867}\sqrt{129}e^{36}$	$(\frac{21}{289}, \frac{21}{289}, \frac{21}{289}, -\frac{98}{289}, \frac{42}{289}, \frac{42}{289}, -\frac{77}{289}, \frac{63}{289}, \frac{63}{289})$ $+ \frac{14}{289}\sqrt{251}e^1 \otimes e_7$	{123458, 4579}
952:191	$0, 0, 0, 0, \frac{20}{861}\sqrt{111}e^{12}, \frac{20}{861}\sqrt{141}e^{13}, \frac{60}{287}\sqrt{13}e^{24},$ $\frac{160}{861}\sqrt{3}e^{16} + \frac{20}{861}\sqrt{465}e^{25}, \frac{20}{861}\sqrt{921}e^{15} + \frac{20}{861}\sqrt{618}e^{36}$	$(-\frac{10}{287}, -\frac{10}{287}, -\frac{10}{287}, \frac{170}{287}, -\frac{20}{287}, -\frac{20}{287}, \frac{160}{287}, -\frac{30}{287}, -\frac{30}{287})$ $+ \frac{40}{287}\sqrt{61}e^4 \otimes e_9$	{1234568, 569}
952:253	$0, 0, 0, 0, \frac{12}{221}\sqrt{15}e^{12}, -\frac{30}{221}e^{13}, \frac{6}{221}\sqrt{283}e^{23}, \frac{6}{221}\sqrt{206}e^{15},$ $\frac{6}{221}\sqrt{119}e^{16} + \frac{18}{221}\sqrt{21}e^{27}$	$(-\frac{6}{221}, -\frac{6}{221}, \frac{54}{221}, -\frac{6}{17}, -\frac{12}{221}, \frac{48}{221}, \frac{48}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^3 \otimes e_8 + \frac{6}{221}\sqrt{410}e^2 \otimes e_4$	{1278, 1345679, 25678, 3479, 1278, 1345679, 25678, 3479}
952:253	$0, 0, 0, 0, \frac{12}{221}\sqrt{15}e^{12}, \frac{30}{221}e^{13}, \frac{6}{221}\sqrt{283}e^{23}, \frac{6}{221}\sqrt{206}e^{15},$ $\frac{6}{221}\sqrt{119}e^{16} + \frac{18}{221}\sqrt{21}e^{27}$	$(-\frac{6}{221}, -\frac{6}{221}, \frac{54}{221}, -\frac{6}{17}, -\frac{12}{221}, \frac{48}{221}, \frac{48}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^3 \otimes e_8 + \frac{6}{221}\sqrt{410}e^2 \otimes e_4$	{1278, 1345679, 25678, 3479, 1278, 1345679, 25678, 3479}
952:253	$0, 0, 0, 0, \frac{2}{43}\sqrt{187}e^{12}, -\frac{1}{43}\sqrt{646}e^{13}, \frac{3}{43}\sqrt{34}e^{23}, \frac{4}{43}\sqrt{34}e^{15},$ $\frac{1}{43}\sqrt{646}e^{16} + \frac{3}{43}\sqrt{34}e^{27}$	$(\frac{5}{43}, \frac{5}{43}, \frac{2}{43}, -\frac{29}{43}, \frac{10}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^1 \otimes e_4$	{123789, 1268, 1359, 1567, 23456789, 2458, 3469, 47, 123789, 1268, 1359, 1567, 23456789, 2458, 3469, 47}
952:253	$0, 0, 0, 0, \frac{2}{43}\sqrt{187}e^{12}, \frac{1}{43}\sqrt{646}e^{13}, \frac{3}{43}\sqrt{34}e^{23}, \frac{4}{43}\sqrt{34}e^{15},$ $\frac{1}{43}\sqrt{646}e^{16} + \frac{3}{43}\sqrt{34}e^{27}$	$(\frac{5}{43}, \frac{5}{43}, \frac{2}{43}, -\frac{29}{43}, \frac{10}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^1 \otimes e_4$	{123789, 1268, 1359, 1567, 23456789, 2458, 3469, 47, 123789, 1268, 1359, 1567, 23456789, 2458, 3469, 47}
952:253	$0, 0, 0, 0, \frac{2}{43}\sqrt{187}e^{12}, -\frac{17}{43}\sqrt{2}e^{13}, \frac{3}{43}\sqrt{102}e^{23}, \frac{4}{43}\sqrt{34}e^{15},$ $\frac{17}{43}\sqrt{2}e^{16} + \frac{3}{43}\sqrt{102}e^{27}$	$(\frac{5}{43}, \frac{5}{43}, \frac{2}{43}, -\frac{29}{43}, \frac{10}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^2 \otimes e_4$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46, 123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}
952:253	$0, 0, 0, 0, \frac{2}{43}\sqrt{187}e^{12}, \frac{17}{43}\sqrt{2}e^{13}, \frac{3}{43}\sqrt{102}e^{23}, \frac{4}{43}\sqrt{34}e^{15},$ $\frac{17}{43}\sqrt{2}e^{16} + \frac{3}{43}\sqrt{102}e^{27}$	$(\frac{5}{43}, \frac{5}{43}, \frac{2}{43}, -\frac{29}{43}, \frac{10}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^2 \otimes e_4$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46, 123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}
952:253	$0, 0, 0, 0, \frac{28}{821}\sqrt{161}e^{12}, -\frac{14}{821}\sqrt{530}e^{13}, \frac{98}{821}\sqrt{14}e^{23}, \frac{28}{821}\sqrt{78}e^{15},$ $\frac{14}{821}\sqrt{478}e^{16} + \frac{14}{821}\sqrt{634}e^{27}$	$(-\frac{70}{821}, -\frac{70}{821}, \frac{182}{821}, \frac{434}{821}, -\frac{140}{821}, \frac{112}{821}, \frac{112}{821}, -\frac{210}{821}, \frac{42}{821})$ $+ \frac{28}{821}\sqrt{335}e^4 \otimes e_9 + \frac{84}{821}\sqrt{43}e^3 \otimes e_8$	{12359, 1468, 2369, 458, 12359, 1468, 2369, 458}
952:253	$0, 0, 0, 0, \frac{28}{821}\sqrt{161}e^{12}, \frac{14}{821}\sqrt{530}e^{13}, \frac{98}{821}\sqrt{14}e^{23}, \frac{28}{821}\sqrt{78}e^{15},$ $\frac{14}{821}\sqrt{478}e^{16} + \frac{14}{821}\sqrt{634}e^{27}$	$(-\frac{70}{821}, -\frac{70}{821}, \frac{182}{821}, \frac{434}{821}, -\frac{140}{821}, \frac{112}{821}, \frac{112}{821}, -\frac{210}{821}, \frac{42}{821})$ $+ \frac{28}{821}\sqrt{335}e^4 \otimes e_9 + \frac{84}{821}\sqrt{43}e^3 \otimes e_8$	{12359, 1468, 2369, 458, 12359, 1468, 2369, 458}
952:253	$0, 0, 0, 0, \frac{1}{14}\sqrt{51}e^{12}, -\frac{1}{7}\sqrt{17}e^{13}, \frac{1}{14}\sqrt{34}e^{23}, \frac{1}{7}\sqrt{51}e^{15},$ $\frac{1}{7}\sqrt{17}e^{16} + \frac{1}{14}\sqrt{34}e^{27}$	$(-\frac{1}{14}, -\frac{1}{14}, \frac{1}{4}, 1, -\frac{1}{7}, \frac{5}{28}, \frac{5}{28}, -\frac{3}{14}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391}e^4 \otimes e_8$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46, 123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}
952:253	$0, 0, 0, 0, \frac{1}{14}\sqrt{51}e^{12}, \frac{1}{7}\sqrt{17}e^{13}, \frac{1}{14}\sqrt{34}e^{23}, \frac{1}{7}\sqrt{51}e^{15},$ $\frac{1}{7}\sqrt{17}e^{16} + \frac{1}{14}\sqrt{34}e^{27}$	$(-\frac{1}{14}, -\frac{1}{14}, \frac{1}{4}, 1, -\frac{1}{7}, \frac{5}{28}, \frac{5}{28}, -\frac{3}{14}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391}e^4 \otimes e_8$	{123689, 1278, 1345679, 145, 23589, 25678, 3479, 46, 123689, 1278, 1345679, 145, 23589, 25678, 3479, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:253	$0, 0, 0, 0, \frac{2}{227}\sqrt{6095}e^{12}, -\frac{2}{227}\sqrt{9085}e^{13}, \frac{2}{227}\sqrt{7705}e^{23}, \frac{4}{227}\sqrt{690}e^{15},$ $\frac{8}{227}\sqrt{230}e^{16} + \frac{20}{227}\sqrt{23}e^{27}$	$(\frac{5}{227}, \frac{5}{227}, \frac{81}{227}, -\frac{149}{227}, \frac{10}{227}, \frac{86}{227}, \frac{86}{227}, \frac{15}{227}, \frac{91}{227})$ $+ \frac{4}{227}\sqrt{5405}e^3 \otimes e_4$	{123589, 1245678, 1379, 146, 23689, 2478, 35679, 45, 123589, 1245678, 1379, 146, 23689, 2478, 35679, 45}
952:253	$0, 0, 0, 0, \frac{2}{227}\sqrt{6095}e^{12}, \frac{2}{227}\sqrt{9085}e^{13}, \frac{2}{227}\sqrt{7705}e^{23}, \frac{4}{227}\sqrt{690}e^{15},$ $\frac{8}{227}\sqrt{230}e^{16} + \frac{20}{227}\sqrt{23}e^{27}$	$(\frac{5}{227}, \frac{5}{227}, \frac{81}{227}, -\frac{149}{227}, \frac{10}{227}, \frac{86}{227}, \frac{86}{227}, \frac{15}{227}, \frac{91}{227})$ $+ \frac{4}{227}\sqrt{5405}e^3 \otimes e_4$	{123589, 1245678, 1379, 146, 23689, 2478, 35679, 45, 123589, 1245678, 1379, 146, 23689, 2478, 35679, 45}
952:253	$0, 0, 0, 0, \frac{2}{227}\sqrt{6095}e^{12}, -\frac{8}{227}\sqrt{230}e^{13}, \frac{20}{227}\sqrt{23}e^{23}, \frac{4}{227}\sqrt{690}e^{15},$ $\frac{2}{227}\sqrt{9085}e^{16} + \frac{2}{227}\sqrt{7705}e^{27}$	$(\frac{5}{227}, \frac{5}{227}, -\frac{13}{227}, \frac{1}{227}, \frac{10}{227}, -\frac{8}{227}, -\frac{8}{227}, \frac{15}{227}, -\frac{3}{227})$ $+ \frac{4}{227}\sqrt{5405}e^4 \otimes e_9$	{123589, 1245678, 1379, 146, 23689, 2478, 35679, 45, 123589, 1245678, 1379, 146, 23689, 2478, 35679, 45}
952:253	$0, 0, 0, 0, \frac{2}{227}\sqrt{6095}e^{12}, \frac{8}{227}\sqrt{230}e^{13}, \frac{20}{227}\sqrt{23}e^{23}, \frac{4}{227}\sqrt{690}e^{15},$ $\frac{2}{227}\sqrt{9085}e^{16} + \frac{2}{227}\sqrt{7705}e^{27}$	$(\frac{5}{227}, \frac{5}{227}, -\frac{13}{227}, \frac{1}{227}, \frac{10}{227}, -\frac{8}{227}, -\frac{8}{227}, \frac{15}{227}, -\frac{3}{227})$ $+ \frac{4}{227}\sqrt{5405}e^4 \otimes e_9$	{123589, 1245678, 1379, 146, 23689, 2478, 35679, 45, 123589, 1245678, 1379, 146, 23689, 2478, 35679, 45}
952:255	$0, 0, 0, 0, \frac{8}{41}\sqrt{7}e^{12}, \frac{8}{41}\sqrt{13}e^{13}, \frac{12}{41}\sqrt{2}e^{23}, \frac{4}{41}\sqrt{22}e^{15},$ $\frac{4}{41}\sqrt{46}e^{16} + \frac{8}{41}\sqrt{6}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^1 \otimes e_4$	{123789, 1567, 23456789, 47}
952:255	$0, 0, 0, 0, \frac{14}{659}\sqrt{1101}e^{12}, \frac{2}{659}\sqrt{73033}e^{13}, \frac{2}{659}\sqrt{20919}e^{23},$ $\frac{2}{659}\sqrt{126982}e^{15}, \frac{12}{659}\sqrt{1835}e^{16} + \frac{2}{659}\sqrt{60922}e^{37}$	$(\frac{5}{659}, -\frac{85}{659}, \frac{95}{659}, \frac{1}{659}, -\frac{80}{659}, \frac{100}{659}, \frac{10}{659}, -\frac{75}{659}, \frac{105}{659})$ $+ \frac{12}{659}\sqrt{5505}e^4 \otimes e_8$	{123689, 145, 23589, 46}
952:255	$0, 0, 0, 0, \frac{2}{659}\sqrt{12111}e^{12}, \frac{2}{659}\sqrt{6973}e^{13}, \frac{2}{659}\sqrt{20919}e^{23}, \frac{2}{659}\sqrt{5138}e^{15},$ $\frac{12}{659}\sqrt{1835}e^{16} + \frac{2}{659}\sqrt{60922}e^{37}$	$(\frac{5}{659}, \frac{95}{659}, -\frac{85}{659}, \frac{1}{659}, -\frac{80}{659}, \frac{100}{659}, \frac{10}{659}, \frac{105}{659}, -\frac{75}{659})$ $+ \frac{12}{659}\sqrt{5505}e^4 \otimes e_9$	{125789, 13467, 26789, 3457}
952:255	$0, 0, 0, 0, \frac{26}{29}e^{12}, \frac{2}{29}\sqrt{143}e^{13}, \frac{6}{29}\sqrt{13}e^{23}, \frac{4}{29}\sqrt{26}e^{15},$ $\frac{4}{29}\sqrt{26}e^{16} + \frac{4}{29}\sqrt{26}e^{37}$	$(\frac{3}{29}, \frac{7}{29}, -\frac{1}{29}, -\frac{19}{29}, \frac{10}{29}, \frac{2}{29}, \frac{6}{29}, \frac{13}{29}, \frac{5}{29})$ $+ \frac{4}{29}\sqrt{78}e^2 \otimes e_4$	{123689, 145, 23589, 46}
952:255	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{6}{29}\sqrt{2}e^{23}, \frac{2}{29}\sqrt{38}e^{15},$ $\frac{2}{29}\sqrt{6}e^{16} + \frac{4}{29}\sqrt{6}e^{37}$	$(\frac{1}{29}, -\frac{4}{29}, \frac{6}{29}, -\frac{7}{29}, -\frac{3}{29}, \frac{7}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^1 \otimes e_4 + \frac{4}{29}\sqrt{15}e^3 \otimes e_8$	{126789, 1357, 245789, 3467}
952:255	$0, 0, 0, 0, \frac{4}{29}\sqrt{3}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{6}{29}\sqrt{2}e^{23}, \frac{2}{29}\sqrt{38}e^{15},$ $\frac{2}{29}\sqrt{6}e^{16} + \frac{4}{29}\sqrt{6}e^{37}$	$(\frac{1}{29}, -\frac{4}{29}, \frac{6}{29}, -\frac{7}{29}, -\frac{3}{29}, \frac{7}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^1 \otimes e_4 - \frac{4}{29}\sqrt{15}e^3 \otimes e_8$	{126789, 1357, 245789, 3467}
952:256	$0, 0, 0, 0, \frac{322}{2949}e^{12}, \frac{46}{983}\sqrt{7}e^{13}, \frac{46}{2949}\sqrt{913}e^{23}, \frac{184}{2949}\sqrt{34}e^{15},$ $\frac{92}{2949}\sqrt{122}e^{27} + \frac{322}{2949}\sqrt{2}e^{36}$	$(-\frac{299}{2949}, \frac{161}{2949}, \frac{207}{983}, -\frac{299}{983}, -\frac{46}{983}, \frac{322}{2949}, \frac{782}{2949}, -\frac{437}{2949}, \frac{943}{2949})$ $+ \frac{46}{2949}\sqrt{1254}e^2 \otimes e_4 + \frac{46}{2949}\sqrt{1338}e^3 \otimes e_8$	{134579, 2578}
952:256	$0, 0, 0, 0, \frac{2}{3009}\sqrt{239279}e^{12}, \frac{58}{3009}\sqrt{777}e^{13}, \frac{22}{3009}\sqrt{5365}e^{23},$ $\frac{40}{3009}\sqrt{2146}e^{15}, \frac{4}{3009}\sqrt{5365}e^{27} + \frac{4}{3009}\sqrt{216746}e^{36}$	$(-\frac{661}{3009}, \frac{163}{3009}, \frac{329}{1003}, \frac{175}{1003}, -\frac{166}{1003}, \frac{326}{3009}, \frac{1150}{3009}, -\frac{1159}{3009}, \frac{1313}{3009})$ $+ \frac{4}{1003}\sqrt{74037}e^3 \otimes e_8$	{14689, 1689, 2346, 236}
952:256	$0, 0, 0, 0, \frac{2}{2865}\sqrt{422617}e^{12}, \frac{2}{2865}\sqrt{527991}e^{13}, \frac{2}{2865}\sqrt{1323901}e^{23},$ $\frac{4}{2865}\sqrt{86317}e^{15}, \frac{64}{2865}\sqrt{1121}e^{27} + \frac{4}{2865}\sqrt{163666}e^{36}$	$(\frac{239}{2865}, \frac{283}{2865}, \frac{109}{955}, -\frac{653}{955}, \frac{174}{955}, \frac{566}{2865}, \frac{122}{573}, \frac{761}{2865}, \frac{893}{2865})$ $+ \frac{4}{955}\sqrt{75107}e^2 \otimes e_4$	{123689, 1345679, 25678, 46}
952:256	$0, 0, 0, 0, \frac{11}{493}\sqrt{134}e^{12}, \frac{11}{986}\sqrt{770}e^{13}, \frac{11}{493}\sqrt{10}e^{23}, \frac{253}{986}\sqrt{2}e^{15},$ $\frac{11}{986}\sqrt{318}e^{27} + \frac{11}{493}\sqrt{213}e^{36}$	$(-\frac{33}{493}, \frac{22}{493}, \frac{77}{493}, -\frac{154}{493}, -\frac{11}{493}, \frac{44}{493}, \frac{99}{493}, -\frac{44}{493}, \frac{121}{493})$ $+ \frac{11}{493}\sqrt{461}e^3 \otimes e_8 + \frac{77}{986}\sqrt{34}e^1 \otimes e_4$	{126789, 3467}
952:256	$0, 0, 0, 0, \frac{2}{107}\sqrt{469}e^{12}, \frac{2}{107}\sqrt{737}e^{13}, \frac{2}{107}\sqrt{469}e^{23}, \frac{2}{321}\sqrt{23718}e^{15},$ $\frac{2}{321}\sqrt{2010}e^{27} + \frac{2}{321}\sqrt{2010}e^{36}$	$(-\frac{15}{107}, \frac{3}{107}, \frac{21}{107}, \frac{1}{107}, -\frac{12}{107}, \frac{6}{107}, \frac{24}{107}, -\frac{27}{107}, \frac{27}{107})$ $+ \frac{4}{321}\sqrt{13065}e^4 \otimes e_8$	{1278, 145, 23589, 3479}
952:256	$0, 0, 0, 0, \frac{2}{27}\sqrt{15}e^{12}, \frac{2}{27}\sqrt{30}e^{13}, \frac{2}{27}\sqrt{15}e^{23}, \frac{2}{27}\sqrt{15}e^{15},$ $\frac{2}{27}\sqrt{105}e^{27} + \frac{2}{27}\sqrt{105}e^{36}$	$(\frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{2}{9}, -\frac{1}{9})$ $+ \frac{2}{27}\sqrt{330}e^4 \otimes e_9$	{12569, 16789, 23467, 34568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952: 256	$0, 0, 0, 0, \frac{1}{25}\sqrt{34}e^{12}, \frac{2}{25}\sqrt{17}e^{13}, \frac{2}{25}\sqrt{11}e^{23}, \frac{1}{25}\sqrt{73}e^{15},$ $\frac{1}{25}\sqrt{43}e^{27} + \frac{11}{25}e^{36}$	$(-\frac{3}{25}, 0, \frac{3}{25}, \frac{12}{25}, -\frac{3}{25}, 0, \frac{3}{25}, -\frac{6}{25}, \frac{3}{25})$ $+ \frac{1}{25}\sqrt{163}e^4 \otimes e_9 + \frac{3}{25}\sqrt{26}e^3 \otimes e_8$	{12359, 458}
952: 256	$0, 0, 0, 0, \frac{2}{729}\sqrt{83265}e^{12}, \frac{2}{729}\sqrt{39345}e^{13}, \frac{2}{729}\sqrt{39955}e^{23},$ $\frac{20}{729}\sqrt{610}e^{15}, \frac{4}{729}\sqrt{6710}e^{27} + \frac{2}{729}\sqrt{34770}e^{36}$	$(\frac{127}{729}, \frac{23}{243}, \frac{11}{729}, -\frac{161}{243}, \frac{196}{729}, \frac{46}{243}, \frac{80}{729}, \frac{323}{729}, \frac{149}{729})$ $+ \frac{2}{729}\sqrt{184830}e^4 \otimes e_4$	{123789, 1359, 2458, 47}
952: 257	$0, 0, 0, 0, \frac{49}{3445}\sqrt{3982}e^{12}, \frac{49}{3445}\sqrt{3746}e^{13}, \frac{98}{689}\sqrt{30}e^{23},$ $\frac{98}{3445}\sqrt{559}e^{15}, \frac{98}{3445}\sqrt{491}e^{16} + \frac{49}{3445}\sqrt{2346}e^{24} + \frac{49}{3445}\sqrt{3018}e^{37}$	$(\frac{49}{689}, \frac{1127}{3445}, -\frac{49}{265}, -\frac{98}{265}, \frac{1372}{3445}, -\frac{392}{3445}, \frac{98}{689}, \frac{1617}{3445}, -\frac{147}{3445})$ $+ \frac{98}{3445}\sqrt{1473}e^2 \otimes e_4$	{145, 46}
952: 257	$0, 0, 0, 0, \frac{371}{3421}\sqrt{10}e^{12}, \frac{53}{3421}\sqrt{842}e^{13}, \frac{212}{3421}\sqrt{30}e^{23},$ $\frac{106}{3421}\sqrt{802}e^{15}, \frac{106}{3421}\sqrt{485}e^{16} + \frac{53}{3421}\sqrt{2814}e^{24} + \frac{53}{3421}\sqrt{330}e^{37}$	$(\frac{53}{3421}, -\frac{901}{3421}, \frac{1007}{3421}, \frac{2014}{3421}, -\frac{848}{3421}, \frac{1060}{3421}, \frac{106}{3421}, -\frac{795}{3421}, \frac{1113}{3421})$ $+ \frac{106}{3421}\sqrt{1455}e^4 \otimes e_8$	{134569, 349}
952: 258	$0, 0, 0, 0, \frac{517}{517}\sqrt{66}e^{12}, \frac{46}{517}\sqrt{53}e^{13}, \frac{23}{517}\sqrt{194}e^{23}, \frac{46}{1551}\sqrt{642}e^{15},$ $\frac{23}{517}\sqrt{390}e^{14} + \frac{46}{1551}\sqrt{15}e^{27} + \frac{23}{1551}\sqrt{1230}e^{36}$	$(-\frac{115}{517}, \frac{23}{517}, \frac{161}{517}, \frac{322}{517}, -\frac{92}{517}, \frac{46}{517}, \frac{184}{517}, -\frac{207}{517}, \frac{207}{517})$ $+ \frac{230}{1551}\sqrt{78}e^4 \otimes e_8$	{189, 3578}
952: 258	$0, 0, 0, 0, \frac{5}{233}\sqrt{1230}e^{12}, \frac{5}{233}\sqrt{670}e^{13}, \frac{5}{233}\sqrt{790}e^{23}, \frac{5}{233}\sqrt{890}e^{15},$ $\frac{5}{233}\sqrt{1010}e^{14} + \frac{5}{233}\sqrt{230}e^{27} + \frac{10}{233}\sqrt{195}e^{36}$	$(\frac{55}{233}, \frac{10}{233}, -\frac{35}{233}, -\frac{70}{233}, \frac{65}{233}, \frac{20}{233}, -\frac{25}{233}, \frac{120}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{505}e^1 \otimes e_4$	{2458, 47}
952: 258	$0, 0, 0, 0, \frac{53}{4917}\sqrt{190}e^{12}, \frac{53}{4917}\sqrt{2730}e^{13}, \frac{53}{4917}\sqrt{1018}e^{23},$ $\frac{53}{4917}\sqrt{3334}e^{15}, \frac{53}{1639}\sqrt{322}e^{14} + \frac{53}{4917}\sqrt{134}e^{27} + \frac{106}{4917}\sqrt{965}e^{36}$	$(-\frac{901}{4917}, \frac{106}{4917}, \frac{371}{1639}, \frac{742}{1639}, -\frac{265}{1639}, \frac{212}{4917}, \frac{1219}{4917}, -\frac{1696}{4917}, \frac{1325}{4917})$ $+ \frac{106}{1639}\sqrt{230}e^3 \otimes e_8$	{134579, 24578}
952: 259	$0, 0, 0, 0, \frac{7}{85}\sqrt{106}e^{12}, -\frac{7}{85}\sqrt{118}e^{13}, \frac{14}{85}\sqrt{22}e^{23}, \frac{14}{85}\sqrt{15}e^{15},$ $\frac{28}{85}\sqrt{5}e^{16} + \frac{7}{17}\sqrt{2}e^{27} + \frac{14}{85}\sqrt{106}e^{34}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, -\frac{14}{85}, -\frac{14}{85}, \frac{28}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{38}e^3 \otimes e_4$	{1245678, 146, 2478, 45, 1245678, 146, 2478, 45}
952: 259	$0, 0, 0, 0, \frac{7}{85}\sqrt{106}e^{12}, \frac{7}{85}\sqrt{118}e^{13}, \frac{14}{85}\sqrt{22}e^{23}, \frac{14}{85}\sqrt{15}e^{15},$ $\frac{28}{85}\sqrt{5}e^{16} + \frac{7}{17}\sqrt{2}e^{27} + \frac{14}{85}\sqrt{106}e^{34}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, -\frac{14}{85}, \frac{14}{85}, \frac{28}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{38}e^3 \otimes e_4$	{1245678, 146, 2478, 45, 1245678, 146, 2478, 45}
952: 259	$0, 0, 0, 0, \frac{1}{46}\sqrt{67}e^{12}, -\frac{1}{23}\sqrt{17}e^{13}, \frac{1}{46}\sqrt{30}e^{23}, \frac{1}{23}\sqrt{19}e^{15},$ $\frac{1}{23}\sqrt{17}e^{16} + \frac{1}{46}\sqrt{30}e^{27} + \frac{2}{23}\sqrt{6}e^{34}$	$(-\frac{1}{46}, -\frac{1}{46}, \frac{7}{92}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^4 \otimes e_8$	{1236789, 128, 235789, 2568, 1236789, 128, 235789, 2568}
952: 259	$0, 0, 0, 0, \frac{1}{46}\sqrt{67}e^{12}, \frac{1}{23}\sqrt{17}e^{13}, \frac{1}{46}\sqrt{30}e^{23}, \frac{1}{23}\sqrt{19}e^{15},$ $\frac{1}{23}\sqrt{17}e^{16} + \frac{1}{46}\sqrt{30}e^{27} + \frac{2}{23}\sqrt{6}e^{34}$	$(-\frac{1}{46}, -\frac{1}{46}, \frac{7}{92}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^4 \otimes e_8$	{1236789, 128, 235789, 2568, 1236789, 128, 235789, 2568}
952: 261	$0, 0, 0, 0, \frac{1}{46}\sqrt{58}e^{12}, -\frac{1}{46}\sqrt{57}e^{13}, \frac{1}{46}\sqrt{59}e^{23},$ $\frac{1}{46}\sqrt{78}e^{14} + \frac{1}{46}\sqrt{67}e^{25}, \frac{1}{46}\sqrt{57}e^{16} + \frac{1}{46}\sqrt{59}e^{27}$	$(-\frac{1}{46}, -\frac{1}{46}, \frac{7}{92}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^1 \otimes e_4$	{2345679, 245, 3469, 47, 2345679, 245, 3469, 47}
952: 261	$0, 0, 0, 0, \frac{1}{46}\sqrt{58}e^{12}, \frac{1}{46}\sqrt{57}e^{13}, \frac{1}{46}\sqrt{59}e^{23},$ $\frac{1}{46}\sqrt{78}e^{14} + \frac{1}{46}\sqrt{67}e^{25}, \frac{1}{46}\sqrt{57}e^{16} + \frac{1}{46}\sqrt{59}e^{27}$	$(-\frac{1}{46}, -\frac{1}{46}, \frac{7}{92}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^1 \otimes e_4$	{2345679, 245, 3469, 47, 2345679, 245, 3469, 47}
952: 263	$0, 0, 0, 0, \frac{124}{3877}\sqrt{113}e^{12}, \frac{31}{3877}\sqrt{5806}e^{13}, \frac{31}{3877}\sqrt{3306}e^{23},$ $\frac{31}{3877}\sqrt{4874}e^{14} + \frac{31}{3877}\sqrt{2938}e^{25}, \frac{31}{3877}\sqrt{6}e^{16} + \frac{31}{3877}\sqrt{823}e^{37}$	$(\frac{155}{3877}, -\frac{403}{3877}, \frac{713}{3877}, -\frac{806}{3877}, -\frac{248}{3877}, \frac{868}{3877}, \frac{310}{3877}, -\frac{651}{3877}, \frac{1023}{3877})$ $+ \frac{124}{3877}\sqrt{445}e^1 \otimes e_4$	{2345679, 47}
952: 263	$0, 0, 0, 0, \frac{180}{4429}\sqrt{83}e^{12}, \frac{45}{4429}\sqrt{58}e^{13}, \frac{90}{4429}\sqrt{799}e^{23},$ $\frac{45}{4429}\sqrt{3694}e^{14} + \frac{180}{4429}\sqrt{41}e^{25}, \frac{868}{4429}\sqrt{166}e^{16} + \frac{62}{4429}\sqrt{3470}e^{37}$	$(\frac{270}{4429}, -\frac{585}{4429}, \frac{1125}{4429}, -\frac{1170}{4429}, -\frac{315}{4429}, \frac{1395}{4429}, \frac{540}{4429}, -\frac{900}{4429}, \frac{1665}{4429})$ $+ \frac{180}{4429}\sqrt{469}e^3 \otimes e_8$	{1234569, 4568}
952: 263	$0, 0, 0, 0, \frac{4}{13}\sqrt{2}e^{12}, \frac{1}{13}\sqrt{74}e^{13}, \frac{8}{13}e^{23},$ $\frac{3}{13}\sqrt{14}e^{14} + \frac{2}{13}\sqrt{13}e^{25}, \frac{1}{13}\sqrt{14}e^{16} + \frac{7}{13}\sqrt{2}e^{37}$	$(0, \frac{3}{13}, -\frac{3}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{3}{13}, 0, \frac{6}{13}, -\frac{3}{13})$ $+ \frac{10}{13}\sqrt{2}e^4 \otimes e_9$	{125789, 2679}
952: 264	$0, 0, 0, 0, \frac{34}{1157}\sqrt{3}e^{12}, \frac{68}{1157}\sqrt{10}e^{13}, \frac{204}{1157}\sqrt{10}e^{23},$ $\frac{68}{1157}\sqrt{110}e^{15} + \frac{68}{1157}\sqrt{30}e^{24}, \frac{306}{1157}\sqrt{3}e^{16} + \frac{136}{1157}\sqrt{30}e^{37}$	$(\frac{34}{1157}, -\frac{289}{1157}, \frac{357}{1157}, \frac{68}{1157}, -\frac{255}{1157}, \frac{391}{1157}, \frac{68}{1157}, -\frac{17}{89}, \frac{425}{1157})$ $- \frac{34}{1157}\sqrt{969}e^3 \otimes e_8$	{1234569, 148, 2349, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952: 264	$0, 0, 0, 0, \frac{34}{1157}\sqrt{3}e^{12}, \frac{68}{1157}\sqrt{10}e^{13}, \frac{204}{1157}\sqrt{10}e^{23},$ $\frac{68}{1157}\sqrt{110}e^{15} + \frac{68}{1157}\sqrt{30}e^{24}, \frac{306}{1157}\sqrt{3}e^{16} + \frac{136}{1157}\sqrt{30}e^{37}$	$(\frac{34}{1157}, -\frac{289}{1157}, \frac{357}{1157}, \frac{68}{1157}, -\frac{255}{1157}, \frac{391}{1157}, \frac{68}{1157}, -\frac{17}{89}, \frac{425}{1157})$ $+ \frac{34}{1157}\sqrt{969}e^3 \otimes e_8$	{1234569, 148, 2349, 4568}
952: 264	$0, 0, 0, 0, \frac{34}{1981}\sqrt{770}e^{12}, \frac{17}{1981}\sqrt{2986}e^{13}, \frac{51}{1981}\sqrt{130}e^{23},$ $\frac{17}{1981}\sqrt{3470}e^{15} + \frac{17}{1981}\sqrt{3894}e^{24}, \frac{34}{1981}\sqrt{955}e^{16} + \frac{34}{1981}\sqrt{237}e^{37}$	$(\frac{17}{1981}, \frac{323}{1981}, -\frac{289}{1981}, \frac{34}{1981}, \frac{340}{1981}, -\frac{272}{1981}, \frac{34}{1981}, \frac{51}{283}, -\frac{255}{1981})$ $+ \frac{102}{1981}\sqrt{102}e^4 \otimes e_9$	{1235789, 236789}
952: 264	$0, 0, 0, 0, \frac{34}{1981}\sqrt{1066}e^{12}, \frac{17}{1981}\sqrt{4358}e^{13}, \frac{51}{1981}\sqrt{278}e^{23},$ $\frac{17}{1981}\sqrt{3874}e^{15} + \frac{85}{1981}\sqrt{138}e^{24}, \frac{34}{1981}\sqrt{881}e^{16} + \frac{34}{1981}\sqrt{681}e^{37}$	$(\frac{17}{1981}, \frac{323}{1981}, -\frac{289}{1981}, \frac{34}{1981}, \frac{340}{1981}, -\frac{272}{1981}, \frac{34}{1981}, \frac{51}{283}, -\frac{255}{1981})$ $+ \frac{102}{1981}\sqrt{102}e^2 \otimes e_4$	{145, 46}
952: 265	$0, 0, 0, 0, \frac{74}{1441}\sqrt{194}e^{12}, -\frac{37}{1441}\sqrt{1105}e^{13}, \frac{111}{1441}\sqrt{113}e^{23},$ $\frac{148}{1441}\sqrt{11}e^{15} + \frac{37}{1441}\sqrt{498}e^{34}, \frac{37}{1441}\sqrt{373}e^{16} + \frac{37}{1441}\sqrt{285}e^{27}$	$(-\frac{37}{1441}, -\frac{37}{1441}, \frac{629}{1441}, -\frac{740}{1441}, -\frac{74}{1441}, \frac{592}{1441}, \frac{592}{1441}, -\frac{111}{1441}, \frac{555}{1441})$ $+ \frac{333}{1441}\sqrt{30}e^3 \otimes e_4$	{1379, 146, 35679, 45, 1379, 146, 35679, 45}
952: 265	$0, 0, 0, 0, \frac{74}{1441}\sqrt{194}e^{12}, \frac{37}{1441}\sqrt{1105}e^{13}, \frac{111}{1441}\sqrt{113}e^{23},$ $\frac{148}{1441}\sqrt{11}e^{15} + \frac{37}{1441}\sqrt{498}e^{34}, \frac{37}{1441}\sqrt{373}e^{16} + \frac{37}{1441}\sqrt{285}e^{27}$	$(-\frac{37}{1441}, -\frac{37}{1441}, \frac{629}{1441}, -\frac{740}{1441}, -\frac{74}{1441}, \frac{592}{1441}, \frac{592}{1441}, -\frac{111}{1441}, \frac{555}{1441})$ $+ \frac{333}{1441}\sqrt{30}e^3 \otimes e_4$	{1379, 146, 35679, 45, 1379, 146, 35679, 45}
952: 267	$0, 0, 0, 0, \frac{848}{3421}\sqrt{2}e^{12}, \frac{212}{3421}\sqrt{10}e^{13}, \frac{212}{3421}\sqrt{30}e^{23},$ $\frac{53}{3421}\sqrt{1610}e^{15} + \frac{53}{3421}\sqrt{2814}e^{34}, \frac{53}{3421}\sqrt{2878}e^{16} + \frac{53}{3421}\sqrt{330}e^{37}$	$(\frac{53}{3421}, \frac{1007}{3421}, -\frac{901}{3421}, \frac{2014}{3421}, \frac{1060}{3421}, -\frac{848}{3421}, \frac{106}{3421}, \frac{1113}{3421}, -\frac{795}{3421})$ $+ \frac{106}{3421}\sqrt{1455}e^4 \otimes e_9$	{124568, 248}
952: 267	$0, 0, 0, 0, \frac{98}{3445}\sqrt{182}e^{12}, \frac{98}{3445}\sqrt{241}e^{13}, \frac{98}{689}\sqrt{30}e^{23},$ $\frac{49}{3445}\sqrt{1054}e^{15} + \frac{49}{3445}\sqrt{2346}e^{34}, \frac{49}{3445}\sqrt{782}e^{16} + \frac{49}{3445}\sqrt{3018}e^{37}$	$(\frac{49}{689}, -\frac{49}{265}, \frac{1127}{3445}, -\frac{98}{265}, -\frac{392}{3445}, \frac{1372}{3445}, \frac{98}{689}, -\frac{147}{3445}, \frac{1617}{3445})$ $+ \frac{98}{3445}\sqrt{1473}e^3 \otimes e_4$	{1245679, 2479}
952: 268	$0, 0, 0, 0, \frac{32}{701}\sqrt{109}e^{12}, \frac{32}{701}\sqrt{282}e^{13}, \frac{16}{701}\sqrt{634}e^{23},$ $\frac{16}{701}\sqrt{22}e^{15} + \frac{320}{701}\sqrt{2}e^{34}, \frac{32}{701}\sqrt{15}e^{27} + \frac{16}{701}\sqrt{1010}e^{36}$	$(-\frac{80}{701}, \frac{64}{701}, \frac{208}{701}, -\frac{304}{701}, -\frac{16}{701}, \frac{128}{701}, \frac{272}{701}, -\frac{96}{701}, \frac{336}{701})$ $+ \frac{16}{701}\sqrt{2410}e^3 \otimes e_4$	{1245679, 236}
952: 269	$0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{2}{3}\sqrt{2}e^{13}, \frac{2}{3}e^{23}, \frac{2}{3}\sqrt{3}e^{15},$ $\frac{1}{3}\sqrt{5}e^{16} + \frac{1}{3}\sqrt{5}e^{25} + \frac{1}{3}\sqrt{7}e^{37}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_8$	{145, 23589}
952: 269	$0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{3}\sqrt{2}e^{13}, \frac{1}{3}e^{23}, \frac{1}{3}\sqrt{3}e^{15},$ $\frac{1}{3}\sqrt{5}e^{16} + \frac{1}{3}\sqrt{5}e^{25} + \frac{1}{3}\sqrt{2}e^{37}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_9$	{124568, 3569}
952: 269	$0, 0, 0, 0, \frac{4}{41}\sqrt{74}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{7}e^{23}, \frac{4}{41}\sqrt{22}e^{15},$ $\frac{4}{41}\sqrt{46}e^{16} + \frac{4}{41}\sqrt{46}e^{25} + \frac{4}{41}\sqrt{22}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_4$	{123689, 46}
952: 271	$0, 0, 0, 0, \frac{4}{41}\sqrt{86}e^{12}, \frac{4}{41}\sqrt{74}e^{13}, \frac{4}{41}\sqrt{74}e^{23},$ $\frac{8}{41}\sqrt{17}e^{16} + \frac{4}{41}\sqrt{46}e^{25}, \frac{4}{41}\sqrt{46}e^{15} + \frac{8}{41}\sqrt{17}e^{27}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 45}
952: 271	$0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{2}{3}e^{13}, \frac{1}{3}e^{23}, \frac{1}{3}\sqrt{7}e^{16} + \frac{1}{3}\sqrt{5}e^{25},$ $\frac{1}{3}\sqrt{5}e^{15} + \frac{1}{3}\sqrt{2}e^{27}$	$(0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_8$	{124569, 3568}
952: 272	$0, 0, 0, 0, -\frac{4}{41}\sqrt{35}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{4}{41}\sqrt{57}e^{23},$ $\frac{4}{41}\sqrt{34}e^{16} + \frac{8}{41}\sqrt{3}e^{25}, \frac{4}{41}\sqrt{29}e^{15} + \frac{4}{41}\sqrt{51}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 1378, 2479, 45, 123589, 1378, 2479, 45}
952: 272	$0, 0, 0, 0, \frac{4}{41}\sqrt{35}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{4}{41}\sqrt{57}e^{23},$ $\frac{4}{41}\sqrt{34}e^{16} + \frac{8}{41}\sqrt{3}e^{25}, \frac{4}{41}\sqrt{29}e^{15} + \frac{4}{41}\sqrt{51}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 1378, 2479, 45, 123589, 1378, 2479, 45}
952: 272	$0, 0, 0, 0, -\frac{4}{41}\sqrt{34}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{3}e^{23},$ $\frac{4}{41}\sqrt{34}e^{16} + \frac{8}{41}\sqrt{3}e^{25}, \frac{8}{41}\sqrt{10}e^{15} + \frac{12}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^1 \otimes e_4$	{1269, 1567, 23456789, 3468, 1269, 1567, 23456789, 3468}
952: 272	$0, 0, 0, 0, \frac{4}{41}\sqrt{34}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{3}e^{23},$ $\frac{4}{41}\sqrt{34}e^{16} + \frac{8}{41}\sqrt{3}e^{25}, \frac{8}{41}\sqrt{10}e^{15} + \frac{12}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^1 \otimes e_4$	{1269, 1567, 23456789, 3468, 1269, 1567, 23456789, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:272	$0, 0, 0, 0, -\frac{1}{2}e^{12}, \frac{1}{2}\sqrt{2}e^{13}, \frac{1}{2}e^{23}, \frac{1}{6}\sqrt{6}e^{16} + \frac{1}{6}\sqrt{6}e^{25},$ $\frac{1}{2}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{21}e^{37}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_9$	{1279, 145, 23589, 3478, 1279, 145, 23589, 3478}
952:272	$0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}\sqrt{2}e^{13}, \frac{1}{2}e^{23}, \frac{1}{6}\sqrt{6}e^{16} + \frac{1}{6}\sqrt{6}e^{25},$ $\frac{1}{2}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{21}e^{37}$	$(0, 0, 0, 1, 0, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^4 \otimes e_9$	{1279, 145, 23589, 3478, 1279, 145, 23589, 3478}
952:272	$0, 0, 0, 0, -\frac{2}{41}\sqrt{274}e^{12}, \frac{4}{41}\sqrt{29}e^{13}, \frac{6}{41}\sqrt{10}e^{23},$ $\frac{4}{41}\sqrt{35}e^{16} + \frac{4}{41}\sqrt{57}e^{25}, \frac{2}{41}\sqrt{22}e^{15} + \frac{2}{41}\sqrt{66}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_4$	{123689, 1345678, 25679, 46, 123689, 1345678, 25679, 46}
952:272	$0, 0, 0, 0, \frac{2}{41}\sqrt{274}e^{12}, \frac{4}{41}\sqrt{29}e^{13}, \frac{6}{41}\sqrt{10}e^{23},$ $\frac{4}{41}\sqrt{35}e^{16} + \frac{4}{41}\sqrt{57}e^{25}, \frac{2}{41}\sqrt{22}e^{15} + \frac{2}{41}\sqrt{66}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_4$	{123689, 1345678, 25679, 46, 123689, 1345678, 25679, 46}
952:276	$0, 0, 0, 0, -\frac{12}{41}\sqrt{2}e^{12}, -\frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{10}e^{23},$ $\frac{8}{41}\sqrt{3}e^{25} + \frac{4}{41}\sqrt{34}e^{36}, \frac{8}{41}\sqrt{3}e^{15} + \frac{4}{41}\sqrt{34}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 12456789, 1378, 1468, 3567, 45, 123589, 12456789, 1378, 1468, 3567, 45}
952:276	$0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, -\frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{10}e^{23},$ $\frac{8}{41}\sqrt{3}e^{25} + \frac{4}{41}\sqrt{34}e^{36}, \frac{8}{41}\sqrt{3}e^{15} + \frac{4}{41}\sqrt{34}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 12456789, 1378, 1468, 3567, 45, 123589, 12456789, 1378, 1468, 3567, 45}
952:276	$0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{10}e^{13}, \frac{8}{41}\sqrt{10}e^{23},$ $\frac{8}{41}\sqrt{3}e^{25} + \frac{4}{41}\sqrt{34}e^{36}, \frac{8}{41}\sqrt{3}e^{15} + \frac{4}{41}\sqrt{34}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_4$	{123589, 12456789, 1378, 1468, 2369, 2479, 3567, 45, 123589, 12456789, 1378, 1468, 2369, 2479, 3567, 45}
952:313	$0, 0, 0, 0, \frac{1}{599}\sqrt{35030}e^{12}, \frac{7}{599}\sqrt{678}e^{34}, \frac{1}{599}\sqrt{25990}e^{13}, \frac{2}{599}\sqrt{13447}e^{15},$ $\frac{1}{599}\sqrt{35030}e^{36}$	$(\frac{72}{599}, -\frac{78}{599}, -\frac{110}{599}, \frac{179}{599}, -\frac{6}{599}, \frac{69}{599}, -\frac{38}{599}, \frac{66}{599}, -\frac{41}{599})$ $+ \frac{1}{599}\sqrt{56274}e^4 \otimes e_8 + \frac{1}{599}\sqrt{61698}e^1 \otimes e_9$	{123678, 128, 349, 4679}
952:313	$0, 0, 0, 0, \frac{4}{293}\sqrt{57}e^{12}, \frac{4}{293}\sqrt{57}e^{34}, \frac{4}{293}\sqrt{7}e^{13}, \frac{40}{293}e^{15},$ $\frac{40}{293}e^{36}$	$(\frac{14}{293}, -\frac{22}{293}, \frac{14}{293}, -\frac{22}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{28}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{293}\sqrt{129}e^1 \otimes e_9 + \frac{4}{293}\sqrt{129}e^3 \otimes e_8$	{128, 13567, 2456789}
952:313	$0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{8}\sqrt{10}e^{34}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{8}\sqrt{10}e^{15},$ $\frac{1}{8}\sqrt{10}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^2 \otimes e_9 - \frac{1}{8}\sqrt{14}e^4 \otimes e_8$	{123678, 128, 14569, 2578}
952:313	$0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{8}\sqrt{10}e^{34}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{8}\sqrt{10}e^{15},$ $\frac{1}{8}\sqrt{10}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^2 \otimes e_9 + \frac{1}{8}\sqrt{14}e^4 \otimes e_8$	{123678, 128, 14569, 2578}
952:313	$0, 0, 0, 0, \frac{11}{53}\sqrt{10}e^{12}, \frac{2}{53}\sqrt{66}e^{34}, \frac{2}{53}\sqrt{33}e^{13}, \frac{11}{53}\sqrt{10}e^{15},$ $\frac{11}{53}\sqrt{10}e^{36}$	$(\frac{55}{159}, -\frac{25}{159}, -\frac{31}{159}, \frac{6}{159}, \frac{10}{53}, -\frac{13}{159}, \frac{8}{53}, \frac{85}{159}, -\frac{44}{159})$ $+ \frac{1}{53}\sqrt{2838}e^1 \otimes e_9$	{123678, 128, 13567, 15, 234589, 2456789, 349, 4679}
952:313	$0, 0, 0, 0, \frac{1}{47}\sqrt{1166}e^{12}, \frac{2}{47}\sqrt{53}e^{34}, \frac{2}{47}\sqrt{371}e^{13}, \frac{2}{47}\sqrt{53}e^{15},$ $\frac{2}{47}\sqrt{53}e^{36}$	$(-\frac{15}{47}, \frac{36}{47}, -\frac{2}{47}, \frac{10}{47}, \frac{21}{47}, \frac{8}{47}, -\frac{17}{47}, \frac{6}{47}, \frac{6}{47})$ $+ \frac{1}{47}\sqrt{4134}e^2 \otimes e_7$	{123, 123469, 145789, 15678, 2459, 256, 346789, 378}
952:313	$0, 0, 0, 0, \frac{4}{11}\sqrt{5}e^{12}, \frac{4}{11}\sqrt{2}e^{34}, \frac{8}{11}e^{13}, \frac{4}{11}\sqrt{2}e^{15},$ $\frac{4}{11}\sqrt{5}e^{36}$	$(-\frac{1}{11}, \frac{6}{11}, -\frac{1}{11}, 0, \frac{5}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{2}{11})$ $+ \frac{12}{11}e^2 \otimes e_9$	{123678, 128, 134579, 14569, 23568, 2578, 349, 4679}
952:313	$0, 0, 0, 0, \frac{2}{47}\sqrt{53}e^{12}, \frac{2}{47}\sqrt{53}e^{34}, \frac{2}{47}\sqrt{371}e^{13}, \frac{1}{47}\sqrt{1166}e^{15},$ $\frac{2}{47}\sqrt{53}e^{36}$	$(\frac{24}{47}, -\frac{29}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{5}{47}, \frac{8}{47}, \frac{22}{47}, \frac{19}{47}, \frac{6}{47})$ $+ \frac{1}{47}\sqrt{4134}e^1 \otimes e_2$	{134689, 138, 14789, 1678, 234679, 237, 249, 26}
952:313	$0, 0, 0, 0, \frac{2}{533}\sqrt{4427}e^{12}, \frac{1}{533}\sqrt{61046}e^{34}, \frac{7}{533}\sqrt{466}e^{13}, \frac{2}{533}\sqrt{22601}e^{15},$ $\frac{2}{533}\sqrt{4427}e^{36}$	$(\frac{71}{533}, -\frac{162}{533}, -\frac{55}{533}, \frac{213}{533}, -\frac{7}{41}, \frac{158}{533}, \frac{16}{533}, -\frac{20}{533}, \frac{103}{533})$ $+ \frac{3}{533}\sqrt{14446}e^4 \otimes e_8 + \frac{3}{533}\sqrt{9786}e^1 \otimes e_2$	{134579, 14569, 23568, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:313	$0, 0, 0, 0, \frac{16}{115}\sqrt{11}e^{12}, \frac{8}{115}\sqrt{62}e^{34}, \frac{16}{115}\sqrt{7}e^{13}, \frac{8}{115}\sqrt{62}e^{15}, \frac{16}{115}\sqrt{5}e^{36}$	$(-\frac{1}{5}, \frac{6}{23}, -\frac{11}{115}, \frac{48}{115}, \frac{7}{115}, \frac{37}{115}, -\frac{34}{115}, -\frac{16}{115}, \frac{26}{115})$ $+ \frac{24}{115}\sqrt{14}e^4 \otimes e_8 + \frac{48}{115}\sqrt{2}e^2 \otimes e_7$	{128, 134579, 23568, 4679}
952:313	$0, 0, 0, 0, \frac{16}{257}\sqrt{22}e^{12}, \frac{16}{257}\sqrt{17}e^{34}, \frac{16}{257}\sqrt{89}e^{13}, \frac{16}{257}\sqrt{17}e^{15}, \frac{16}{257}\sqrt{22}e^{36}$	$(\frac{56}{257}, -\frac{72}{257}, -\frac{61}{257}, \frac{123}{257}, -\frac{16}{257}, \frac{62}{257}, -\frac{5}{257}, \frac{40}{257}, \frac{1}{257})$ $+ \frac{48}{257}\sqrt{13}e^1 \otimes e_2 + \frac{48}{257}\sqrt{13}e^4 \otimes e_7$	{1348, 1789, 23679, 246}
952:313	$0, 0, 0, 0, \frac{16}{257}\sqrt{22}e^{12}, \frac{16}{257}\sqrt{22}e^{34}, \frac{16}{257}\sqrt{89}e^{13}, \frac{16}{257}\sqrt{17}e^{15}, \frac{16}{257}\sqrt{17}e^{36}$	$(\frac{56}{257}, -\frac{72}{257}, \frac{56}{257}, -\frac{72}{257}, -\frac{16}{257}, -\frac{16}{257}, \frac{112}{257}, \frac{40}{257}, \frac{40}{257})$ $+ \frac{48}{257}\sqrt{13}e^1 \otimes e_2 + \frac{48}{257}\sqrt{13}e^3 \otimes e_4$	{1389, 1478, 24}
952:313	$0, 0, 0, 0, \frac{2}{333}\sqrt{4485}e^{12}, \frac{2}{111}\sqrt{299}e^{34}, \frac{2}{111}\sqrt{253}e^{13}, \frac{2}{333}\sqrt{4485}e^{15}, \frac{2}{333}\sqrt{4485}e^{36}$	$(\frac{65}{333}, -\frac{20}{333}, -\frac{92}{333}, \frac{1}{3}, \frac{5}{37}, \frac{19}{333}, -\frac{3}{37}, \frac{110}{333}, -\frac{73}{333})$ $+ \frac{2}{111}\sqrt{1403}e^1 \otimes e_9 + \frac{2}{111}\sqrt{805}e^4 \otimes e_7$	{1278, 157, 245689, 469}
952:314	$0, 0, 0, 0, \frac{1}{191}\sqrt{674}e^{12}, \frac{1}{573}\sqrt{111210}e^{34}, \frac{2}{573}\sqrt{13143}e^{13}, \frac{1}{573}\sqrt{128734}e^{25}, \frac{1}{573}\sqrt{111210}e^{36}$	$(\frac{6}{191}, -\frac{95}{573}, \frac{55}{191}, -\frac{20}{573}, -\frac{77}{573}, \frac{35}{191}, \frac{61}{191}, -\frac{172}{573}, \frac{90}{191})$ $+ \frac{1}{191}\sqrt{8762}e^3 \otimes e_8$	{1246789, 1278, 1456789, 1578, 234579, 23567, 3479, 367}
952:314	$0, 0, 0, 0, \frac{1}{737}\sqrt{67830}e^{12}, \frac{2}{737}\sqrt{13566}e^{34}, \frac{1}{737}\sqrt{112098}e^{13}, \frac{6}{737}\sqrt{595}e^{25}, \frac{1}{737}\sqrt{67830}e^{36}$	$(\frac{190}{737}, -\frac{35}{737}, -\frac{238}{737}, \frac{309}{737}, \frac{155}{737}, \frac{71}{737}, -\frac{48}{737}, \frac{120}{737}, -\frac{167}{737})$ $+ \frac{1}{737}\sqrt{210630}e^4 \otimes e_7 + \frac{8}{737}\sqrt{3927}e^1 \otimes e_9$	{1278, 1578, 24569, 469}
952:314	$0, 0, 0, 0, \frac{1}{33}\sqrt{74}e^{12}, \frac{1}{33}\sqrt{74}e^{34}, \frac{1}{11}\sqrt{74}e^{13}, \frac{2}{33}\sqrt{37}e^{25}, \frac{4}{33}\sqrt{37}e^{36}$	$(-\frac{2}{33}, \frac{5}{33}, \frac{17}{33}, -\frac{20}{33}, \frac{1}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{8}{33}, \frac{14}{33})$ $+ \frac{1}{11}\sqrt{222}e^3 \otimes e_4$	{12359, 12457, 139, 147, 23789, 248, 35789, 458}
952:314	$0, 0, 0, 0, \frac{22}{4353}\sqrt{4494}e^{12}, \frac{14}{4353}\sqrt{9951}e^{34}, \frac{10}{4353}\sqrt{11235}e^{13}, \frac{2}{4353}\sqrt{1086799}e^{25}, \frac{2}{4353}\sqrt{38199}e^{36}$	$(-\frac{191}{1451}, \frac{376}{4353}, -\frac{183}{1451}, \frac{559}{1451}, -\frac{197}{4353}, \frac{376}{1451}, -\frac{374}{1451}, \frac{179}{4353}, \frac{193}{1451})$ $+ \frac{20}{1451}\sqrt{1498}e^4 \otimes e_8 + \frac{30}{1451}\sqrt{749}e^2 \otimes e_7$	{12368, 1578, 24569, 3479}
952:314	$0, 0, 0, 0, \frac{8}{117}\sqrt{35}e^{12}, \frac{1}{39}\sqrt{70}e^{34}, \frac{1}{117}\sqrt{210}e^{13}, \frac{14}{117}\sqrt{10}e^{25}, \frac{1}{117}\sqrt{3010}e^{36}$	$(-\frac{5}{117}, \frac{8}{39}, \frac{8}{117}, -\frac{3}{13}, \frac{19}{117}, -\frac{19}{117}, \frac{1}{39}, \frac{43}{117}, -\frac{11}{117})$ $+ \frac{1}{117}\sqrt{2310}e^3 \otimes e_4 + \frac{1}{117}\sqrt{4830}e^2 \otimes e_9$	{123678, 145689, 2356, 4679}
952:314	$0, 0, 0, 0, \frac{2}{273}\sqrt{7194}e^{12}, \frac{2}{91}\sqrt{109}e^{34}, \frac{10}{273}\sqrt{327}e^{13}, \frac{2}{273}\sqrt{9919}e^{25}, \frac{2}{91}\sqrt{109}e^{36}$	$(-\frac{31}{91}, \frac{116}{273}, -\frac{3}{91}, \frac{19}{91}, \frac{23}{273}, \frac{16}{91}, -\frac{34}{91}, \frac{139}{273}, \frac{1}{7})$ $+ \frac{10}{91}\sqrt{109}e^2 \otimes e_7$	{1234689, 1238, 145789, 15678, 2459, 256, 34679, 37}
952:314	$0, 0, 0, 0, \frac{8}{279}\sqrt{105}e^{12}, \frac{4}{279}\sqrt{238}e^{34}, \frac{4}{279}\sqrt{1155}e^{13}, \frac{4}{279}\sqrt{805}e^{25}, \frac{4}{279}\sqrt{259}e^{36}$	$(-\frac{9}{31}, \frac{85}{279}, \frac{6}{31}, -\frac{58}{279}, \frac{4}{279}, -\frac{4}{279}, -\frac{3}{31}, \frac{89}{279}, \frac{50}{279})$ $+ \frac{4}{279}\sqrt{1491}e^3 \otimes e_4 + \frac{4}{279}\sqrt{1974}e^2 \otimes e_7$	{12389, 14578, 245, 379}
952:314	$0, 0, 0, 0, \frac{28}{751}\sqrt{5}e^{12}, \frac{5}{2253}\sqrt{1302}e^{34}, \frac{5}{2253}\sqrt{546}e^{13}, \frac{1}{2253}\sqrt{52570}e^{25}, \frac{4}{2253}\sqrt{3570}e^{36}$	$(-\frac{15}{751}, \frac{62}{2253}, \frac{38}{751}, -\frac{67}{751}, \frac{17}{2253}, -\frac{29}{751}, \frac{23}{751}, \frac{79}{2253}, \frac{9}{751})$ $+ \frac{3}{751}\sqrt{910}e^2 \otimes e_9 + \frac{4}{751}\sqrt{455}e^3 \otimes e_8$	{128, 145689, 2356, 349}
952:314	$0, 0, 0, 0, \frac{4}{1527}\sqrt{4641}e^{12}, \frac{2}{1527}\sqrt{23205}e^{34}, \frac{2}{1527}\sqrt{38913}e^{13}, \frac{2}{1527}\sqrt{60571}e^{25}, \frac{2}{1527}\sqrt{23205}e^{36}$	$(-\frac{101}{509}, \frac{130}{1527}, \frac{65}{509}, -\frac{5}{509}, -\frac{173}{1527}, \frac{60}{509}, -\frac{36}{509}, -\frac{43}{1527}, \frac{125}{509})$ $+ \frac{2}{1527}\sqrt{73185}e^2 \otimes e_7 + \frac{4}{1527}\sqrt{21777}e^3 \otimes e_8$	{1456789, 1578, 3479, 367}
952:314	$0, 0, 0, 0, \frac{4}{4707}\sqrt{66045}e^{12}, \frac{4}{4707}\sqrt{89369}e^{34}, \frac{4}{4707}\sqrt{81753}e^{13}, \frac{56}{4707}\sqrt{595}e^{25}, \frac{8}{4707}\sqrt{39865}e^{36}$	$(\frac{370}{1569}, -\frac{950}{4707}, \frac{18}{523}, -\frac{166}{4707}, \frac{160}{4707}, -\frac{4}{4707}, \frac{424}{1569}, -\frac{790}{4707}, \frac{158}{4707})$ $+ \frac{4}{4707}\sqrt{210273}e^1 \otimes e_9 + \frac{4}{4707}\sqrt{280245}e^3 \otimes e_8$	{1278, 1578, 234579, 3479}
952:314	$0, 0, 0, 0, \frac{2}{111}\sqrt{606}e^{12}, \frac{2}{111}\sqrt{2121}e^{34}, \frac{1}{111}\sqrt{3030}e^{13}, \frac{1}{111}\sqrt{7474}e^{25}, \frac{2}{111}\sqrt{606}e^{36}$	$(\frac{8}{37}, -\frac{28}{111}, -\frac{6}{37}, \frac{23}{37}, -\frac{4}{111}, \frac{17}{37}, \frac{2}{37}, -\frac{32}{111}, \frac{11}{37})$ $+ \frac{2}{37}\sqrt{505}e^4 \otimes e_8$	{123678, 128, 135678, 158, 23459, 245679, 349, 4679}
952:314	$0, 0, 0, 0, \frac{4}{4977}\sqrt{205761}e^{12}, \frac{2}{4977}\sqrt{122431}e^{34}, \frac{10}{1659}\sqrt{3205}e^{13}, \frac{2}{4977}\sqrt{614719}e^{25}, \frac{2}{4977}\sqrt{326269}e^{36}$	$(\frac{27}{553}, \frac{634}{4977}, -\frac{99}{553}, \frac{743}{4977}, \frac{877}{4977}, -\frac{148}{4977}, -\frac{72}{553}, \frac{1511}{4977}, -\frac{1039}{4977})$ $+ \frac{10}{4977}\sqrt{59613}e^2 \otimes e_7 + \frac{20}{4977}\sqrt{13461}e^1 \otimes e_9$	{123468, 14578, 2569, 379}
952:314	$0, 0, 0, 0, \frac{1}{99}\sqrt{138}e^{12}, \frac{1}{495}\sqrt{30130}e^{34}, \frac{2}{495}\sqrt{5865}e^{13}, \frac{1}{495}\sqrt{24610}e^{25}, \frac{1}{495}\sqrt{16790}e^{36}$	$(-\frac{2}{33}, -\frac{7}{99}, \frac{1}{33}, \frac{20}{99}, -\frac{13}{99}, \frac{23}{99}, -\frac{1}{33}, -\frac{20}{99}, \frac{26}{99})$ $+ \frac{2}{495}\sqrt{10005}e^4 \otimes e_7 + \frac{4}{495}\sqrt{3795}e^3 \otimes e_8$	{123459, 1349, 24689, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:314	$0, 0, 0, 0, \frac{1}{461}\sqrt{52910}e^{12}, \frac{1}{461}\sqrt{28490}e^{34}, \frac{2}{461}\sqrt{6105}e^{13}, \frac{11}{461}\sqrt{370}e^{25}, \frac{1}{461}\sqrt{52910}e^{36}$	$(-\frac{10}{461}, \frac{99}{461}, -\frac{87}{461}, \frac{88}{461}, \frac{89}{461}, \frac{1}{461}, -\frac{97}{461}, \frac{188}{461}, -\frac{86}{461}) + \frac{148}{461}\sqrt{5}e^2 \otimes e_9 + \frac{14}{461}\sqrt{185}e^4 \otimes e_7$	{123678, 145689, 257, 349}
952:314	$0, 0, 0, 0, \frac{2}{141}\sqrt{2010}e^{12}, \frac{1}{141}\sqrt{2814}e^{34}, \frac{1}{141}\sqrt{5226}e^{13}, \frac{1}{141}\sqrt{6298}e^{25}, \frac{2}{141}\sqrt{2010}e^{36}$	$(\frac{1}{47}, \frac{34}{141}, -\frac{6}{47}, \frac{17}{47}, \frac{37}{141}, -\frac{5}{47}, -\frac{5}{47}, \frac{71}{141}, -\frac{11}{47}) + \frac{1}{47}\sqrt{1742}e^2 \otimes e_9$	{123678, 128, 1345789, 145689, 2356, 257, 349, 4679}
952:314	$0, 0, 0, 0, \frac{1}{33}\sqrt{74}e^{12}, \frac{4}{33}\sqrt{37}e^{34}, \frac{1}{11}\sqrt{74}e^{13}, \frac{2}{33}\sqrt{37}e^{25}, \frac{1}{33}\sqrt{74}e^{36}$	$(-\frac{2}{33}, \frac{5}{33}, -\frac{10}{33}, \frac{25}{33}, \frac{1}{11}, \frac{5}{11}, -\frac{4}{11}, \frac{8}{33}, \frac{5}{33}) + \frac{1}{11}\sqrt{222}e^4 \otimes e_7$	{12345, 12579, 134, 179, 236789, 2468, 356789, 4568}
952:314	$0, 0, 0, 0, \frac{8}{111}\sqrt{101}e^{12}, \frac{2}{111}\sqrt{101}e^{34}, \frac{1}{111}\sqrt{3030}e^{13}, \frac{1}{111}\sqrt{1414}e^{25}, \frac{8}{111}\sqrt{101}e^{36}$	$(\frac{64}{111}, -\frac{6}{37}, -\frac{28}{111}, \frac{19}{111}, \frac{46}{111}, -\frac{3}{37}, \frac{12}{37}, \frac{28}{111}, -\frac{1}{3}) + \frac{2}{37}\sqrt{505}e^1 \otimes e_9$	{12368, 1278, 13568, 1578, 234579, 24569, 3479, 469}
952:314	$0, 0, 0, 0, \frac{1}{51}\sqrt{210}e^{12}, \frac{2}{51}\sqrt{42}e^{34}, \frac{2}{51}\sqrt{42}e^{13}, \frac{1}{51}\sqrt{238}e^{25}, \frac{1}{51}\sqrt{210}e^{36}$	$(\frac{1}{17}, \frac{1}{51}, -\frac{3}{17}, \frac{4}{17}, \frac{4}{51}, \frac{1}{17}, -\frac{2}{17}, \frac{5}{51}, -\frac{2}{17}) + \frac{1}{17}\sqrt{42}e^2 \otimes e_9 + \frac{2}{17}\sqrt{7}e^4 \otimes e_8$	{123678, 128, 349, 4679}
952:314	$0, 0, 0, 0, \frac{1}{37}\sqrt{118}e^{12}, \frac{5}{333}\sqrt{118}e^{34}, \frac{1}{333}\sqrt{17169}e^{13}, \frac{1}{333}\sqrt{2773}e^{25}, \frac{1}{333}\sqrt{20473}e^{36}$	$(\frac{9}{37}, -\frac{17}{333}, \frac{3}{37}, -\frac{91}{333}, \frac{64}{333}, -\frac{64}{333}, \frac{12}{37}, \frac{47}{333}, -\frac{1}{9}) + \frac{1}{333}\sqrt{32745}e^3 \otimes e_4 + \frac{2}{333}\sqrt{9381}e^1 \otimes e_9$	{12478, 14578, 23579, 379}
952:315	$0, 0, 0, 0, \frac{88}{4731}\sqrt{210}e^{12}, \frac{8}{4731}\sqrt{30030}e^{34}, \frac{8}{1577}\sqrt{1155}e^{13}, \frac{8}{4731}\sqrt{33495}e^{25}, \frac{8}{4731}\sqrt{55195}e^{46}$	$(\frac{484}{1577}, -\frac{356}{1577}, -\frac{180}{1577}, \frac{436}{4731}, \frac{128}{1577}, -\frac{104}{4731}, \frac{16}{83}, -\frac{12}{83}, \frac{4}{57}) + \frac{32}{4731}\sqrt{4935}e^4 \otimes e_8 + \frac{80}{4731}\sqrt{651}e^1 \otimes e_9$	{1278, 1578, 234579, 3479}
952:315	$0, 0, 0, 0, \frac{16}{81}\sqrt{10}e^{12}, \frac{16}{81}e^{34}, \frac{8}{81}\sqrt{42}e^{13}, \frac{8}{81}\sqrt{10}e^{25}, \frac{8}{27}\sqrt{6}e^{46}$	$(\frac{40}{81}, -\frac{10}{81}, -\frac{4}{81}, -\frac{10}{81}, \frac{10}{81}, -\frac{14}{81}, \frac{4}{9}, \frac{20}{81}, -\frac{8}{27}) + \frac{16}{81}\sqrt{33}e^1 \otimes e_9$	{123468, 1238, 134568, 1358, 2459, 2569, 49, 69}
952:315	$0, 0, 0, 0, \frac{4}{33}\sqrt{30}e^{12}, \frac{2}{33}\sqrt{30}e^{34}, \frac{2}{33}\sqrt{30}e^{13}, \frac{2}{33}\sqrt{110}e^{25}, \frac{2}{33}\sqrt{110}e^{46}$	$(-\frac{1}{11}, \frac{10}{33}, \frac{2}{11}, -\frac{8}{33}, \frac{7}{33}, -\frac{2}{33}, \frac{1}{11}, \frac{17}{33}, -\frac{10}{33}) + \frac{2}{11}\sqrt{30}e^2 \otimes e_9$	{12468, 128, 1345789, 1356789, 24567, 257, 349, 369}
952:315	$0, 0, 0, 0, \frac{8}{1191}\sqrt{2030}e^{12}, \frac{8}{1191}\sqrt{434}e^{34}, \frac{8}{1191}\sqrt{2247}e^{13}, \frac{8}{1191}\sqrt{1547}e^{25}, \frac{8}{1191}\sqrt{1547}e^{46}$	$(\frac{52}{1191}, \frac{152}{1191}, -\frac{124}{1191}, -\frac{8}{397}, \frac{68}{397}, -\frac{148}{1191}, -\frac{24}{397}, \frac{356}{1191}, -\frac{172}{1191}) + \frac{32}{1191}\sqrt{231}e^1 \otimes e_9 + \frac{32}{1191}\sqrt{231}e^2 \otimes e_7$	{123468, 1238, 2459, 2569}
952:315	$0, 0, 0, 0, \frac{16}{81}\sqrt{10}e^{12}, \frac{16}{81}e^{34}, \frac{8}{81}\sqrt{42}e^{13}, \frac{8}{27}\sqrt{6}e^{25}, \frac{8}{81}\sqrt{10}e^{46}$	$(-\frac{26}{81}, \frac{34}{81}, -\frac{4}{81}, \frac{4}{81}, \frac{8}{81}, \frac{8}{81}, -\frac{10}{27}, \frac{14}{27}, \frac{20}{81}) + \frac{16}{81}\sqrt{33}e^2 \otimes e_7$	{123468, 1238, 145789, 156789, 2459, 2569, 3467, 37}
952:315	$0, 0, 0, 0, \frac{8}{101}\sqrt{10}e^{12}, \frac{8}{101}\sqrt{10}e^{34}, \frac{24}{101}\sqrt{3}e^{13}, \frac{8}{101}\sqrt{19}e^{25}, \frac{8}{101}\sqrt{19}e^{46}$	$(\frac{20}{101}, -\frac{16}{101}, \frac{20}{101}, -\frac{16}{101}, \frac{4}{101}, \frac{4}{101}, \frac{40}{101}, -\frac{12}{101}, -\frac{12}{101}) + \frac{16}{101}\sqrt{11}e^1 \otimes e_9 - \frac{16}{101}\sqrt{11}e^3 \otimes e_8$	{124678, 1278, 145678, 1578}
952:315	$0, 0, 0, 0, \frac{8}{101}\sqrt{10}e^{12}, \frac{8}{101}\sqrt{10}e^{34}, \frac{24}{101}\sqrt{3}e^{13}, \frac{8}{101}\sqrt{19}e^{25}, \frac{8}{101}\sqrt{19}e^{46}$	$(\frac{20}{101}, -\frac{16}{101}, \frac{20}{101}, -\frac{16}{101}, \frac{4}{101}, \frac{4}{101}, \frac{40}{101}, -\frac{12}{101}, -\frac{12}{101}) + \frac{16}{101}\sqrt{11}e^1 \otimes e_9 + \frac{16}{101}\sqrt{11}e^3 \otimes e_8$	{124678, 1278, 145678, 1578}
952:315	$0, 0, 0, 0, \frac{88}{4731}\sqrt{210}e^{12}, \frac{8}{4731}\sqrt{30030}e^{34}, \frac{8}{1577}\sqrt{1155}e^{13}, \frac{8}{4731}\sqrt{55195}e^{25}, \frac{8}{4731}\sqrt{33495}e^{46}$	$(-\frac{136}{1577}, \frac{172}{4731}, -\frac{180}{1577}, \frac{352}{1577}, -\frac{236}{4731}, \frac{172}{1577}, -\frac{316}{1577}, -\frac{64}{4731}, \frac{524}{1577}) + \frac{32}{4731}\sqrt{4935}e^4 \otimes e_8 + \frac{80}{4731}\sqrt{651}e^2 \otimes e_7$	{123689, 1578, 2456, 3479}
952:315	$0, 0, 0, 0, \frac{8}{1191}\sqrt{798}e^{12}, \frac{8}{1191}\sqrt{798}e^{34}, \frac{8}{1191}\sqrt{2247}e^{13}, \frac{8}{397}\sqrt{35}e^{25}, \frac{8}{1191}\sqrt{2779}e^{46}$	$(\frac{76}{397}, -\frac{8}{397}, -\frac{100}{397}, \frac{152}{1191}, \frac{68}{397}, -\frac{148}{1191}, -\frac{24}{397}, \frac{60}{397}, \frac{4}{1191}) + \frac{32}{1191}\sqrt{231}e^1 \otimes e_9 + \frac{32}{1191}\sqrt{231}e^4 \otimes e_7$	{1278, 1578, 235679, 3679}
952:316	$0, 0, 0, 0, \frac{32}{3227}\sqrt{690}e^{12}, \frac{32}{3227}\sqrt{762}e^{34}, \frac{64}{3227}\sqrt{193}e^{13} + \frac{32}{3227}\sqrt{417}e^{24}, \frac{32}{3227}\sqrt{1333}e^{15}, \frac{32}{3227}\sqrt{829}e^{36}$	$(\frac{464}{3227}, -\frac{688}{3227}, -\frac{400}{3227}, \frac{752}{3227}, -\frac{32}{461}, \frac{352}{3227}, \frac{64}{3227}, \frac{240}{3227}, -\frac{48}{3227}) + \frac{1152}{3227}e^1 \otimes e_9 + \frac{192}{3227}\sqrt{42}e^4 \otimes e_8$	{123678, 4679}
952:316	$0, 0, 0, 0, \frac{80}{1057}\sqrt{78}e^{12}, \frac{16}{1057}\sqrt{510}e^{34}, \frac{160}{1057}e^{13} + \frac{16}{1057}\sqrt{465}e^{24}, \frac{16}{1057}\sqrt{1795}e^{15}, \frac{16}{1057}\sqrt{1795}e^{36}$	$(\frac{328}{1057}, -\frac{104}{1057}, -\frac{248}{1057}, \frac{184}{1057}, \frac{32}{151}, -\frac{64}{1057}, \frac{80}{1057}, \frac{552}{1057}, -\frac{312}{1057}) + \frac{192}{1057}\sqrt{30}e^1 \otimes e_9$	{128, 13567, 2456789, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:316	$0, 0, 0, 0, \frac{16}{65}\sqrt{6}e^{12}, \frac{8}{65}\sqrt{6}e^{34}, \frac{16}{65}\sqrt{7}e^{13} + \frac{8}{65}\sqrt{21}e^{24},$ $\frac{8}{65}\sqrt{13}e^{15}, \frac{8}{65}\sqrt{31}e^{36}$	$(\frac{2}{65}, \frac{4}{13}, \frac{2}{65}, -\frac{16}{65}, \frac{22}{65}, -\frac{14}{65}, \frac{4}{65}, \frac{24}{65}, -\frac{12}{65})$ $+ \frac{24}{65}\sqrt{6}e^2 \otimes e_9$	{123678, 134579, 2578, 4679}
952:317	$0, 0, 0, 0, \frac{8}{1629}\sqrt{12521}e^{12}, \frac{1}{543}\sqrt{22406}e^{34},$ $\frac{4}{1629}\sqrt{25701}e^{14} + \frac{13}{1629}\sqrt{3954}e^{23}, \frac{1}{1629}\sqrt{578602}e^{15}, \frac{4}{1629}\sqrt{58651}e^{36}$	$(\frac{30}{181}, \frac{163}{1629}, -\frac{94}{1629}, -\frac{67}{543}, \frac{433}{1629}, -\frac{295}{1629}, \frac{23}{1629}, \frac{703}{1629}, -\frac{389}{1629})$ $+ \frac{1}{1629}\sqrt{1799070}e^1 \otimes e_9$	{123678, 157, 2345789, 4679}
952:317	$0, 0, 0, 0, \frac{2}{153}\sqrt{3349}e^{12}, \frac{4}{459}\sqrt{1379}e^{34}, \frac{10}{459}\sqrt{591}e^{14} + \frac{10}{459}\sqrt{591}e^{23},$ $\frac{2}{459}\sqrt{10441}e^{15}, \frac{16}{459}\sqrt{394}e^{36}$	$(-\frac{47}{459}, \frac{77}{153}, -\frac{49}{153}, \frac{131}{459}, \frac{184}{459}, -\frac{16}{459}, \frac{28}{153}, \frac{137}{459}, -\frac{163}{459})$ $+ \frac{10}{459}\sqrt{2955}e^2 \otimes e_9$	{12368, 134579, 2578, 469}
952:317	$0, 0, 0, 0, \frac{8}{1473}\sqrt{1065}e^{12}, \frac{8}{1473}\sqrt{795}e^{34}, \frac{8}{491}\sqrt{95}e^{14} + \frac{8}{1473}\sqrt{1194}e^{23},$ $\frac{16}{491}\sqrt{33}e^{15}, \frac{40}{491}\sqrt{6}e^{36}$	$(-\frac{28}{491}, \frac{68}{491}, -\frac{52}{491}, \frac{44}{491}, \frac{40}{491}, -\frac{8}{491}, \frac{16}{491}, \frac{12}{491}, -\frac{60}{491})$ $+ \frac{8}{1473}\sqrt{1563}e^4 \otimes e_8 + \frac{8}{1473}\sqrt{2373}e^1 \otimes e_9$	{123678, 4679}
952:317	$0, 0, 0, 0, \frac{1}{103}\sqrt{47}e^{12}, \frac{1}{103}\sqrt{47}e^{34}, \frac{1}{103}\sqrt{13}e^{14} + \frac{1}{103}\sqrt{13}e^{23},$ $\frac{1}{103}\sqrt{73}e^{15}, \frac{1}{103}\sqrt{73}e^{36}$	$(\frac{4}{103}, -\frac{5}{103}, \frac{4}{103}, -\frac{5}{103}, -\frac{1}{103}, -\frac{1}{103}, -\frac{1}{103}, \frac{3}{103}, \frac{3}{103})$ $+ \frac{1}{103}\sqrt{91}e^1 \otimes e_9 + \frac{1}{103}\sqrt{91}e^3 \otimes e_8$	{128, 1356, 245689}
952:317	$0, 0, 0, 0, \frac{1}{103}\sqrt{47}e^{12}, \frac{1}{103}\sqrt{47}e^{34}, \frac{1}{103}\sqrt{13}e^{14} + \frac{1}{103}\sqrt{13}e^{23},$ $\frac{1}{103}\sqrt{73}e^{15}, \frac{1}{103}\sqrt{73}e^{36}$	$(\frac{4}{103}, -\frac{5}{103}, \frac{4}{103}, -\frac{5}{103}, -\frac{1}{103}, -\frac{1}{103}, -\frac{1}{103}, \frac{3}{103}, \frac{3}{103})$ $+ \frac{1}{103}\sqrt{91}e^1 \otimes e_9 - \frac{1}{103}\sqrt{91}e^3 \otimes e_8$	{128, 1356, 245689}
952:318	$0, 0, 0, 0, \frac{13}{1045}\sqrt{606}e^{12}, \frac{208}{1045}\sqrt{3}e^{34}, \frac{13}{1045}\sqrt{42}e^{13},$ $\frac{208}{1045}\sqrt{3}e^{15} + \frac{91}{1045}\sqrt{30}e^{23}, \frac{52}{1045}\sqrt{15}e^{36}$	$(-\frac{104}{1045}, \frac{39}{209}, -\frac{208}{1045}, \frac{26}{55}, \frac{91}{1045}, \frac{26}{95}, -\frac{312}{1045}, -\frac{13}{1045}, \frac{78}{1045})$ $+ \frac{156}{1045}\sqrt{21}e^4 \otimes e_8 + \frac{1}{1045}\sqrt{282}e^2 \otimes e_7$	{1289, 467}
952:318	$0, 0, 0, 0, \frac{1}{37}\sqrt{105}e^{12}, \frac{3}{37}\sqrt{7}e^{34}, \frac{1}{37}\sqrt{15}e^{13},$ $\frac{1}{37}\sqrt{105}e^{15} + \frac{1}{37}\sqrt{111}e^{23}, \frac{1}{37}\sqrt{105}e^{36}$	$(-\frac{1}{37}, \frac{6}{37}, -\frac{2}{37}, 0, \frac{5}{37}, -\frac{2}{37}, -\frac{3}{37}, \frac{4}{37}, -\frac{4}{37})$ $+ \frac{1}{37}\sqrt{159}e^1 \otimes e_9 + \frac{1}{37}\sqrt{33}e^4 \otimes e_7$	{123678, 13567, 234589, 349}
952:318	$0, 0, 0, 0, \frac{1}{37}\sqrt{105}e^{12}, \frac{3}{37}\sqrt{7}e^{34}, \frac{1}{37}\sqrt{15}e^{13},$ $\frac{1}{37}\sqrt{105}e^{15} + \frac{1}{37}\sqrt{111}e^{23}, \frac{1}{37}\sqrt{105}e^{36}$	$(-\frac{1}{37}, \frac{6}{37}, -\frac{2}{37}, 0, \frac{5}{37}, -\frac{2}{37}, -\frac{3}{37}, \frac{4}{37}, -\frac{4}{37})$ $+ \frac{1}{37}\sqrt{159}e^1 \otimes e_9 - \frac{1}{37}\sqrt{33}e^4 \otimes e_7$	{123678, 13567, 234589, 349}
952:318	$0, 0, 0, 0, \frac{4}{225}\sqrt{123}e^{12}, \frac{2}{75}\sqrt{902}e^{34}, \frac{4}{75}\sqrt{205}e^{13},$ $\frac{4}{225}\sqrt{123}e^{15} + \frac{2}{75}\sqrt{451}e^{23}, \frac{4}{225}\sqrt{123}e^{36}$	$(-\frac{29}{225}, \frac{68}{225}, -\frac{58}{225}, \frac{53}{75}, \frac{101}{225}, -\frac{29}{75}, \frac{2}{45}, \frac{43}{225})$ $+ \frac{2}{75}\sqrt{2542}e^4 \otimes e_7$	{123489, 13459, 235678, 367}
952:318	$0, 0, 0, 0, \frac{2}{17}\sqrt{30}e^{12}, \frac{2}{17}\sqrt{30}e^{34}, \frac{1}{17}\sqrt{210}e^{13},$ $\frac{2}{17}\sqrt{30}e^{15} + \frac{1}{17}\sqrt{210}e^{23}, \frac{1}{17}\sqrt{30}e^{36}$	$(\frac{3}{17}, -\frac{1}{17}, \frac{6}{17}, -\frac{9}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{9}{17}, \frac{5}{17}, \frac{3}{17})$ $+ \frac{15}{17}\sqrt{2}e^3 \otimes e_4$	{124578, 147, 248, 45}
952:318	$0, 0, 0, 0, \frac{3}{1285}\sqrt{3486}e^{12}, \frac{3}{1285}\sqrt{2490}e^{34}, \frac{3}{1285}\sqrt{1554}e^{13},$ $\frac{18}{1285}\sqrt{114}e^{15} + \frac{6}{1285}\sqrt{762}e^{23}, \frac{3}{1285}\sqrt{3486}e^{36}$	$(-\frac{6}{257}, \frac{96}{1285}, -\frac{12}{257}, \frac{63}{1285}, \frac{66}{1285}, \frac{3}{1285}, -\frac{18}{257}, \frac{36}{1285}, -\frac{57}{1285})$ $+ \frac{9}{1285}\sqrt{206}e^4 \otimes e_8 + \frac{9}{1285}\sqrt{538}e^1 \otimes e_9$	{123678, 349}
952:318	$0, 0, 0, 0, \frac{15}{1213}\sqrt{1974}e^{12}, \frac{15}{1213}\sqrt{1410}e^{34}, \frac{30}{1213}\sqrt{222}e^{13},$ $\frac{270}{1213}\sqrt{2}e^{15} + \frac{15}{1213}\sqrt{42}e^{23}, \frac{15}{1213}\sqrt{1974}e^{36}$	$(-\frac{120}{1213}, \frac{510}{1213}, -\frac{240}{1213}, \frac{315}{1213}, \frac{390}{1213}, \frac{75}{1213}, -\frac{360}{1213}, \frac{270}{1213}, -\frac{165}{1213})$ $+ \frac{45}{1213}\sqrt{254}e^4 \otimes e_7 + \frac{45}{1213}\sqrt{442}e^2 \otimes e_9$	{123678, 349}
952:318	$0, 0, 0, 0, \frac{1}{125}\sqrt{2190}e^{12}, \frac{2}{125}\sqrt{285}e^{34}, \frac{2}{25}\sqrt{6}e^{13},$ $\frac{2}{125}\sqrt{555}e^{15} + \frac{2}{125}\sqrt{555}e^{23}, \frac{2}{125}\sqrt{555}e^{36}$	$(\frac{1}{125}, \frac{18}{125}, \frac{2}{125}, -\frac{18}{125}, \frac{19}{125}, -\frac{16}{125}, \frac{3}{25}, \frac{4}{25}, -\frac{14}{125})$ $+ \frac{18}{125}\sqrt{10}e^1 \otimes e_9 + \frac{3}{125}\sqrt{10}e^2 \otimes e_7$	{123678, 349}
952:318	$0, 0, 0, 0, \frac{1}{17}\sqrt{30}e^{12}, \frac{2}{17}\sqrt{30}e^{34}, \frac{1}{17}\sqrt{210}e^{13},$ $\frac{2}{17}\sqrt{30}e^{15} + \frac{1}{17}\sqrt{210}e^{23}, \frac{2}{17}\sqrt{30}e^{36}$	$(-\frac{2}{17}, \frac{9}{17}, -\frac{4}{17}, \frac{6}{17}, \frac{7}{17}, \frac{2}{17}, -\frac{6}{17}, \frac{5}{17}, -\frac{2}{17})$ $+ \frac{15}{17}\sqrt{2}e^2 \otimes e_7$	{123, 123469, 346789, 378}
952:318	$0, 0, 0, 0, \frac{1}{92}\sqrt{105}e^{12}, \frac{1}{92}\sqrt{870}e^{34}, \frac{1}{92}\sqrt{1335}e^{13},$ $\frac{1}{92}\sqrt{870}e^{15} + \frac{1}{92}\sqrt{1335}e^{23}, \frac{1}{46}\sqrt{105}e^{36}$	$(\frac{1}{184}, \frac{33}{184}, \frac{1}{92}, -\frac{7}{46}, \frac{17}{92}, -\frac{13}{92}, \frac{3}{184}, \frac{35}{184}, -\frac{3}{23})$ $+ \frac{15}{92}\sqrt{6}e^2 \otimes e_7 + \frac{15}{92}\sqrt{6}e^3 \otimes e_4$	{1479, 2489}
952:318	$0, 0, 0, 0, \frac{2}{25}\sqrt{21}e^{12}, \frac{2}{25}\sqrt{21}e^{34}, \frac{6}{25}\sqrt{3}e^{13},$ $\frac{2}{25}\sqrt{21}e^{15} + \frac{2}{25}\sqrt{6}e^{23}, \frac{2}{25}\sqrt{21}e^{36}$	$(-\frac{2}{25}, \frac{1}{5}, -\frac{4}{25}, \frac{7}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{6}{25}, \frac{1}{25}, -\frac{1}{25})$ $+ \frac{2}{25}\sqrt{33}e^2 \otimes e_9 + \frac{2}{25}\sqrt{33}e^4 \otimes e_8$	{128, 14569, 2578, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:318	$0, 0, 0, 0, \frac{2}{25}\sqrt{21}e^{12}, \frac{2}{25}\sqrt{21}e^{34}, \frac{6}{25}\sqrt{3}e^{13},$ $\frac{2}{25}\sqrt{21}e^{15} + \frac{2}{25}\sqrt{6}e^{23}, \frac{2}{25}\sqrt{21}e^{36}$	$(-\frac{2}{25}, \frac{1}{5}, -\frac{4}{25}, \frac{7}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{6}{25}, \frac{1}{25}, -\frac{1}{25})$ $+\frac{2}{25}\sqrt{33}e^2 \otimes e_9 - \frac{2}{25}\sqrt{33}e^4 \otimes e_8$	{128, 14569, 2578, 4679}
952:318	$0, 0, 0, 0, \frac{2}{241}\sqrt{3306}e^{12}, \frac{4}{241}\sqrt{2262}e^{34}, \frac{2}{241}\sqrt{7395}e^{13},$ $\frac{4}{241}\sqrt{2262}e^{15} + \frac{2}{241}\sqrt{1218}e^{23}, \frac{2}{241}\sqrt{3306}e^{36}$	$(-\frac{14}{241}, -\frac{9}{241}, -\frac{28}{241}, \frac{137}{241}, -\frac{23}{241}, \frac{109}{241}, -\frac{42}{241}, -\frac{37}{241}, \frac{81}{241})$ $+\frac{6}{241}\sqrt{1914}e^4 \otimes e_8$	{128, 14569, 2578, 4679}
952:318	$0, 0, 0, 0, \frac{2}{249}\sqrt{2130}e^{12}, \frac{4}{83}\sqrt{30}e^{34}, \frac{4}{83}\sqrt{15}e^{13},$ $\frac{2}{249}\sqrt{2130}e^{15} + \frac{2}{83}\sqrt{235}e^{23}, \frac{2}{249}\sqrt{2130}e^{36}$	$(\frac{1}{249}, \frac{38}{249}, \frac{2}{249}, -\frac{11}{83}, \frac{13}{83}, -\frac{31}{249}, \frac{1}{83}, \frac{40}{249}, -\frac{29}{249})$ $+\frac{10}{83}\sqrt{14}e^1 \otimes e_9$	{123678, 13567, 234589, 349}
952:318	$0, 0, 0, 0, \frac{2}{125}\sqrt{555}e^{12}, \frac{2}{125}\sqrt{285}e^{34}, \frac{2}{25}\sqrt{6}e^{13},$ $\frac{2}{125}\sqrt{555}e^{15} + \frac{2}{125}\sqrt{555}e^{23}, \frac{1}{125}\sqrt{2190}e^{36}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, 0, \frac{4}{25}, -\frac{3}{25})$ $+\frac{18}{125}\sqrt{10}e^1 \otimes e_9 + \frac{3}{125}\sqrt{10}e^3 \otimes e_4$	{234589, 349}
952:318	$0, 0, 0, 0, \frac{26}{1441}\sqrt{219}e^{12}, \frac{26}{1441}\sqrt{123}e^{34}, \frac{26}{1441}\sqrt{30}e^{13},$ $\frac{26}{1441}\sqrt{123}e^{15} + \frac{26}{1441}\sqrt{543}e^{23}, \frac{13}{1441}\sqrt{2118}e^{36}$	$(\frac{52}{1441}, \frac{312}{1441}, \frac{104}{1441}, -\frac{403}{1441}, \frac{364}{1441}, -\frac{299}{1441}, \frac{156}{1441}, \frac{416}{1441}, -\frac{195}{1441})$ $+\frac{117}{1441}\sqrt{46}e^3 \otimes e_4 + \frac{78}{1441}\sqrt{114}e^2 \otimes e_9$	{13589, 3789}
952:318	$0, 0, 0, 0, \frac{4}{241}\sqrt{2262}e^{12}, \frac{2}{241}\sqrt{3306}e^{34}, \frac{2}{241}\sqrt{7395}e^{13},$ $\frac{2}{241}\sqrt{3306}e^{15} + \frac{2}{241}\sqrt{1218}e^{23}, \frac{4}{241}\sqrt{2262}e^{36}$	$(-\frac{14}{241}, \frac{123}{241}, -\frac{28}{241}, \frac{5}{241}, \frac{109}{241}, -\frac{23}{241}, -\frac{42}{241}, \frac{95}{241}, -\frac{51}{241})$ $+\frac{6}{241}\sqrt{1914}e^2 \otimes e_9$	{128, 14569, 2578, 4679}
952:319	$0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{8}{47}e^{34}, \frac{2}{47}\sqrt{34}e^{13}, \frac{4}{47}\sqrt{7}e^{15},$ $\frac{2}{47}\sqrt{34}e^{23} + \frac{4}{47}\sqrt{7}e^{46}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{12}{47}, -\frac{4}{47})$ $+\frac{14}{47}\sqrt{2}e^1 \otimes e_9 - \frac{2}{47}\sqrt{70}e^2 \otimes e_7$	{123468, 1238, 24589, 25689}
952:319	$0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{8}{47}e^{34}, \frac{2}{47}\sqrt{34}e^{13}, \frac{4}{47}\sqrt{7}e^{15},$ $\frac{2}{47}\sqrt{34}e^{23} + \frac{4}{47}\sqrt{7}e^{46}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{12}{47}, -\frac{4}{47})$ $+\frac{14}{47}\sqrt{2}e^1 \otimes e_9 + \frac{2}{47}\sqrt{70}e^2 \otimes e_7$	{123468, 1238, 24589, 25689}
952:319	$0, 0, 0, 0, \frac{1}{303}\sqrt{32542}e^{12}, \frac{1}{303}\sqrt{19034}e^{34}, \frac{4}{101}\sqrt{307}e^{13}, \frac{1}{303}\sqrt{4298}e^{15},$ $\frac{4}{101}\sqrt{307}e^{23} + \frac{1}{303}\sqrt{4298}e^{46}$	$(-\frac{67}{303}, \frac{178}{303}, -\frac{62}{303}, \frac{89}{303}, \frac{37}{101}, \frac{9}{101}, -\frac{43}{101}, \frac{44}{303}, \frac{116}{303})$ $+\frac{2}{101}\sqrt{4298}e^2 \otimes e_7$	{14578, 15678, 346789, 3789}
952:319	$0, 0, 0, 0, \frac{1}{162}\sqrt{4071}e^{12}, \frac{2}{81}\sqrt{590}e^{34}, \frac{1}{162}\sqrt{4602}e^{13}, \frac{1}{162}\sqrt{7906}e^{15},$ $\frac{1}{162}\sqrt{4602}e^{23} + \frac{1}{162}\sqrt{7906}e^{46}$	$(-\frac{37}{162}, \frac{5}{27}, \frac{47}{324}, \frac{5}{54}, -\frac{7}{162}, \frac{77}{324}, -\frac{1}{12}, -\frac{22}{81}, \frac{107}{324})$ $+\frac{1}{162}\sqrt{16107}e^4 \otimes e_8$	{1236789, 128, 235689, 2578}
952:319	$0, 0, 0, 0, \frac{32}{441}\sqrt{11}e^{12}, \frac{16}{441}\sqrt{6}e^{34}, \frac{160}{441}\sqrt{3}e^{13}, \frac{32}{441}\sqrt{14}e^{15},$ $\frac{160}{441}\sqrt{3}e^{23} + \frac{16}{441}\sqrt{394}e^{46}$	$(-\frac{26}{147}, \frac{194}{441}, -\frac{9}{49}, \frac{97}{441}, \frac{116}{441}, \frac{16}{441}, -\frac{53}{147}, \frac{38}{441}, \frac{113}{441})$ $+\frac{80}{441}\sqrt{30}e^4 \otimes e_7$	{12349, 127, 235679, 2456}
952:319	$0, 0, 0, 0, \frac{10}{261}\sqrt{17}e^{12}, \frac{2}{87}\sqrt{34}e^{34}, \frac{2}{261}\sqrt{510}e^{13}, \frac{2}{261}\sqrt{1309}e^{15},$ $\frac{34}{261}\sqrt{3}e^{23} + \frac{2}{261}\sqrt{595}e^{46}$	$(\frac{8}{87}, -\frac{46}{261}, \frac{4}{29}, -\frac{23}{261}, -\frac{22}{261}, \frac{13}{261}, \frac{20}{87}, \frac{2}{261}, -\frac{10}{261})$ $+\frac{2}{261}\sqrt{1785}e^3 \otimes e_8 + \frac{2}{87}\sqrt{238}e^1 \otimes e_9$	{3479, 3679}
952:319	$0, 0, 0, 0, \frac{54}{4217}\sqrt{97}e^{12}, \frac{324}{4217}\sqrt{6}e^{34}, \frac{108}{4217}\sqrt{181}e^{13},$ $\frac{54}{4217}\sqrt{595}e^{15}, \frac{54}{4217}\sqrt{1137}e^{23} + \frac{54}{4217}\sqrt{231}e^{46}$	$(-\frac{972}{4217}, \frac{918}{4217}, \frac{432}{4217}, \frac{459}{4217}, -\frac{54}{4217}, \frac{891}{4217}, -\frac{540}{4217}, -\frac{1026}{4217}, \frac{1350}{4217})$ $+\frac{108}{4217}\sqrt{427}e^2 \otimes e_7 + \frac{54}{4217}\sqrt{2065}e^3 \otimes e_8$	{245689, 2589}
952:319	$0, 0, 0, 0, \frac{656}{6741}e^{12}, \frac{164}{2247}\sqrt{26}e^{34}, \frac{410}{6741}\sqrt{33}e^{13}, \frac{82}{6741}\sqrt{286}e^{15},$ $\frac{205}{6741}\sqrt{42}e^{23} + \frac{41}{6741}\sqrt{3094}e^{46}$	$(-\frac{451}{2247}, \frac{1394}{6741}, \frac{41}{749}, \frac{697}{6741}, \frac{41}{6741}, \frac{1066}{6741}, -\frac{328}{2247}, -\frac{1312}{6741}, \frac{1763}{6741})$ $+\frac{205}{2247}\sqrt{30}e^4 \otimes e_7 + \frac{205}{6741}\sqrt{210}e^3 \otimes e_8$	{123459, 23679}
952:319	$0, 0, 0, 0, \frac{17}{333}\sqrt{110}e^{12}, \frac{2}{333}\sqrt{561}e^{34}, \frac{14}{333}\sqrt{14586}e^{13}, \frac{14}{333}\sqrt{187}e^{15},$ $\frac{1}{333}\sqrt{14586}e^{23} + \frac{14}{333}\sqrt{187}e^{46}$	$(\frac{1}{3}, -\frac{64}{333}, -\frac{4}{111}, -\frac{32}{333}, \frac{47}{333}, -\frac{44}{333}, \frac{11}{37}, \frac{158}{333}, -\frac{76}{333})$ $+\frac{1}{333}\sqrt{102102}e^1 \otimes e_9$	{123468, 1238, 24589, 25689}
952:319	$0, 0, 0, 0, \frac{7}{689}\sqrt{1430}e^{12}, \frac{21}{689}\sqrt{330}e^{34}, \frac{14}{689}\sqrt{330}e^{13}, \frac{7}{689}\sqrt{2530}e^{15},$ $\frac{14}{689}\sqrt{330}e^{23} + \frac{7}{689}\sqrt{2530}e^{46}$	$(-\frac{161}{689}, \frac{154}{689}, \frac{70}{689}, \frac{77}{689}, -\frac{7}{689}, \frac{147}{689}, -\frac{7}{689}, -\frac{168}{689}, \frac{224}{689})$ $+\frac{14}{689}\sqrt{1310}e^4 \otimes e_8 + \frac{14}{689}\sqrt{155}e^2 \otimes e_7$	{128, 235689}
952:319	$0, 0, 0, 0, \frac{2}{3177}\sqrt{237031}e^{12}, \frac{4}{1059}\sqrt{23579}e^{34}, \frac{20}{3177}\sqrt{3723}e^{13},$ $\frac{2}{3177}\sqrt{1190119}e^{15}, \frac{10}{3177}\sqrt{40953}e^{23} + \frac{2}{3177}\sqrt{112931}e^{46}$	$(-\frac{172}{1059}, -\frac{82}{3177}, \frac{152}{353}, -\frac{41}{3177}, -\frac{598}{3177}, \frac{1327}{3177}, \frac{284}{3177}, 1059, -\frac{1114}{3177}, \frac{1286}{3177})$ $+\frac{10}{3177}\sqrt{130305}e^3 \otimes e_8$	{12345, 12356, 2347, 2367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:319	$0, 0, 0, 0, \frac{5}{1529}\sqrt{138e^{12}}, \frac{1}{1529}\sqrt{3970e^{34}}, \frac{10}{1529}\sqrt{13e^{13}}, \frac{1}{1529}\sqrt{5530e^{15}},$ $\frac{10}{1529}\sqrt{13e^{23}} + \frac{1}{1529}\sqrt{5530e^{46}}$	$(\frac{7}{1529}, -\frac{38}{1529}, \frac{40}{1529}, -\frac{19}{1529}, -\frac{31}{1529}, \frac{21}{1529}, \frac{47}{1529}, -\frac{24}{1529}, \frac{2}{1529})$ $+ \frac{2}{1529}\sqrt{1495e^1} \otimes e_9 + \frac{2}{1529}\sqrt{1885e^4} \otimes e_8$	{128, 235689}
952:319	$0, 0, 0, 0, \frac{31}{7119}\sqrt{2030e^{12}}, \frac{124}{7119}\sqrt{129e^{34}}, \frac{31}{2373}\sqrt{382e^{13}},$ $\frac{62}{7119}\sqrt{370e^{15}}, \frac{155}{7119}\sqrt{66e^{23}} + \frac{124}{7119}\sqrt{331e^{46}}$	$(\frac{155}{2373}, \frac{620}{7119}, -\frac{124}{791}, \frac{310}{7119}, \frac{155}{1017}, -\frac{806}{7119}, -\frac{31}{339}, \frac{1550}{7119}, -\frac{496}{7119})$ $+ \frac{31}{7119}\sqrt{6258e^1} \otimes e_9 + \frac{62}{7119}\sqrt{1590e^4} \otimes e_7$	{1278, 2356789}
952:320	$0, 0, 0, 0, \frac{2}{13}\sqrt{21e^{12}}, \frac{2}{13}\sqrt{7e^{34}}, \frac{2}{13}\sqrt{35e^{13}}, \frac{1}{13}\sqrt{42e^{15}},$ $\frac{3}{13}\sqrt{14e^{24}} + \frac{2}{13}\sqrt{21e^{36}}$	$(0, -\frac{2}{13}, -\frac{1}{13}, \frac{6}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{2}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{42e^4} \otimes e_7$	{13469, 167, 357, 459}
952:320	$0, 0, 0, 0, \frac{4}{131}\sqrt{57e^{12}}, \frac{2}{131}\sqrt{186e^{34}}, \frac{4}{131}\sqrt{183e^{13}}, \frac{6}{131}\sqrt{2e^{15}},$ $\frac{6}{131}\sqrt{82e^{24}} + \frac{4}{131}\sqrt{57e^{36}}$	$(\frac{22}{131}, -\frac{32}{131}, -\frac{16}{131}, \frac{30}{131}, -\frac{10}{131}, \frac{14}{131}, \frac{6}{131}, \frac{12}{131}, -\frac{2}{131})$ $+ \frac{2}{131}\sqrt{786e^4} \otimes e_7 + \frac{4}{131}\sqrt{165e^1} \otimes e_9$	{1678, 4589}
952:320	$0, 0, 0, 0, \frac{13}{4171}\sqrt{122e^{12}}, \frac{78}{4171}\sqrt{69e^{34}}, \frac{26}{4171}\sqrt{995e^{13}}, \frac{52}{4171}\sqrt{3e^{15}},$ $\frac{78}{4171}\sqrt{111e^{24}} + \frac{26}{4171}\sqrt{321e^{36}}$	$(-\frac{13}{4171}, \frac{312}{4171}, \frac{156}{4171}, -\frac{494}{4171}, \frac{299}{4171}, -\frac{338}{4171}, \frac{143}{4171}, \frac{286}{4171}, -\frac{182}{4171})$ $+ \frac{13}{4171}\sqrt{4218e^2} \otimes e_7 + \frac{780}{4171}e^1 \otimes e_9$	{1567, 34679}
952:320	$0, 0, 0, 0, \frac{1}{41}\sqrt{70e^{12}}, \frac{2}{41}\sqrt{35e^{34}}, \frac{14}{41}\sqrt{2e^{13}}, \frac{1}{41}\sqrt{42e^{15}},$ $\frac{1}{41}\sqrt{546e^{24}} + \frac{2}{41}\sqrt{70e^{36}}$	$(-\frac{19}{82}, \frac{9}{41}, \frac{9}{82}, \frac{4}{41}, -\frac{1}{82}, \frac{17}{41}, -\frac{5}{41}, -\frac{10}{41}, \frac{13}{41})$ $+ \frac{2}{41}\sqrt{105e^4} \otimes e_8 + \frac{3}{41}\sqrt{70e^2} \otimes e_7$	{1678, 3578}
952:320	$0, 0, 0, 0, \frac{24}{73}\sqrt{3e^{12}}, \frac{18}{73}\sqrt{11e^{34}}, \frac{6}{73}\sqrt{69e^{13}}, \frac{3}{73}\sqrt{282e^{15}},$ $\frac{9}{73}\sqrt{38e^{24}} + \frac{18}{73}\sqrt{11e^{36}}$	$(-\frac{18}{73}, \frac{18}{73}, \frac{9}{73}, \frac{6}{73}, 0, \frac{15}{73}, -\frac{9}{73}, -\frac{18}{73}, \frac{24}{73})$ $+ \frac{12}{73}\sqrt{30e^3} \otimes e_8 + \frac{6}{73}\sqrt{33e^2} \otimes e_7$	{2456789, 2578}
952:320	$0, 0, 0, 0, \frac{40}{329}\sqrt{15e^{12}}, \frac{5}{329}\sqrt{1870e^{34}}, \frac{10}{329}\sqrt{235e^{13}}, \frac{5}{329}\sqrt{1410e^{15}},$ $\frac{10}{329}\sqrt{345e^{24}} + \frac{5}{329}\sqrt{1870e^{36}}$	$(-\frac{87}{329}, \frac{14}{47}, \frac{7}{47}, \frac{1}{47}, \frac{11}{47}, \frac{8}{47}, -\frac{38}{329}, -\frac{76}{329}, \frac{15}{47})$ $+ \frac{5}{329}\sqrt{2730e^3} \otimes e_8$	{124689, 128, 2456789, 2578}
952:320	$0, 0, 0, 0, \frac{2}{13}\sqrt{7e^{12}}, \frac{2}{13}\sqrt{21e^{34}}, \frac{2}{13}\sqrt{35e^{13}}, \frac{1}{13}\sqrt{42e^{15}},$ $\frac{3}{13}\sqrt{14e^{24}} + \frac{2}{13}\sqrt{21e^{36}}$	$(-\frac{4}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{2}{13}, \frac{2}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{2}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{42e^2} \otimes e_7$	{1479, 167, 345679, 357}
952:320	$0, 0, 0, 0, \frac{2}{2417}\sqrt{633e^{12}}, \frac{4}{2417}\sqrt{177e^{34}}, \frac{2}{2417}\sqrt{283e^{13}}, \frac{60}{2417}e^{15},$ $\frac{10}{2417}\sqrt{15e^{24}} + \frac{10}{2417}\sqrt{41e^{36}}$	$(-\frac{9}{2417}, \frac{32}{2417}, \frac{16}{2417}, -\frac{43}{2417}, \frac{23}{2417}, -\frac{27}{2417}, \frac{7}{2417}, \frac{14}{2417}, -\frac{11}{2417})$ $+ \frac{28}{2417}\sqrt{6e^3} \otimes e_8 + \frac{2}{2417}\sqrt{951e^1} \otimes e_9$	{128, 2456789}
952:320	$0, 0, 0, 0, \frac{2}{655}\sqrt{31897e^{12}}, \frac{4}{655}\sqrt{573e^{34}}, \frac{2}{655}\sqrt{8213e^{13}}, \frac{4}{655}\sqrt{9741e^{15}},$ $\frac{2}{655}\sqrt{21201e^{24}} + \frac{2}{655}\sqrt{31897e^{36}}$	$(\frac{241}{655}, -\frac{32}{131}, -\frac{16}{131}, \frac{19}{655}, \frac{81}{655}, -\frac{61}{655}, \frac{161}{655}, \frac{322}{655}, -\frac{141}{655})$ $+ \frac{2}{655}\sqrt{102567e^1} \otimes e_9$	{123468, 12478, 235789, 25689}
952:320	$0, 0, 0, 0, \frac{27}{1645}\sqrt{182e^{12}}, \frac{9}{1645}\sqrt{1482e^{34}}, \frac{9}{1645}\sqrt{858e^{13}},$ $\frac{18}{1645}\sqrt{894e^{15}}, \frac{18}{1645}\sqrt{426e^{24}} + \frac{27}{1645}\sqrt{182e^{36}}$	$(\frac{234}{1645}, -\frac{72}{329}, -\frac{36}{329}, \frac{351}{1645}, -\frac{18}{235}, \frac{171}{1645}, \frac{54}{1645}, \frac{108}{1645}, -\frac{9}{1645})$ $+ \frac{9}{1645}\sqrt{4110e^4} \otimes e_8 + \frac{9}{1645}\sqrt{4578e^1} \otimes e_9$	{349, 4679}
952:320	$0, 0, 0, 0, \frac{2}{41}\sqrt{35e^{12}}, \frac{1}{41}\sqrt{70e^{34}}, \frac{14}{41}\sqrt{2e^{13}}, \frac{1}{41}\sqrt{42e^{15}},$ $\frac{1}{41}\sqrt{546e^{24}} + \frac{2}{41}\sqrt{70e^{36}}$	$(-\frac{7}{41}, \frac{4}{41}, \frac{2}{41}, \frac{9}{41}, -\frac{3}{41}, \frac{11}{41}, -\frac{5}{41}, -\frac{10}{41}, \frac{13}{41})$ $- \frac{2}{41}\sqrt{105e^2} \otimes e_8 + \frac{3}{41}\sqrt{70e^4} \otimes e_7$	{134689, 1678, 3578, 4589}
952:320	$0, 0, 0, 0, \frac{2}{41}\sqrt{35e^{12}}, \frac{1}{41}\sqrt{70e^{34}}, \frac{14}{41}\sqrt{2e^{13}}, \frac{1}{41}\sqrt{42e^{15}},$ $\frac{1}{41}\sqrt{546e^{24}} + \frac{2}{41}\sqrt{70e^{36}}$	$(-\frac{7}{41}, \frac{4}{41}, \frac{2}{41}, \frac{9}{41}, -\frac{3}{41}, \frac{11}{41}, -\frac{5}{41}, -\frac{10}{41}, \frac{13}{41})$ $+ \frac{2}{41}\sqrt{105e^2} \otimes e_8 + \frac{3}{41}\sqrt{70e^4} \otimes e_7$	{134689, 1678, 3578, 4589}
952:320	$0, 0, 0, 0, \frac{16}{91}\sqrt{5e^{12}}, \frac{8}{91}\sqrt{70e^{34}}, \frac{16}{91}\sqrt{13e^{13}}, \frac{8}{91}\sqrt{78e^{15}},$ $\frac{16}{91}\sqrt{6e^{24}} + \frac{16}{91}\sqrt{5e^{36}}$	$(-\frac{1}{13}, -\frac{6}{91}, -\frac{3}{91}, \frac{44}{91}, -\frac{1}{91}, \frac{41}{91}, -\frac{10}{91}, -\frac{20}{91}, \frac{38}{91})$ $+ \frac{40}{91}\sqrt{6e^4} \otimes e_8$	{134579, 14569, 349, 4679}
952:321	$0, 0, 0, 0, \frac{7}{561}\sqrt{2130e^{12}}, \frac{7}{561}\sqrt{570e^{34}}, \frac{14}{561}\sqrt{390e^{13}}, \frac{7}{561}\sqrt{1870e^{25}},$ $\frac{14}{561}\sqrt{195e^{14}} + \frac{7}{561}\sqrt{2130e^{36}}$	$(-\frac{14}{187}, \frac{161}{561}, -\frac{7}{187}, -\frac{14}{187}, \frac{7}{33}, -\frac{21}{187}, -\frac{21}{187}, \frac{280}{561}, -\frac{28}{187})$ $+ \frac{14}{187}\sqrt{130e^2} \otimes e_9$	{2356, 257, 349, 4679}
952:321	$0, 0, 0, 0, \frac{1}{1059}\sqrt{3486e^{12}}, \frac{1}{1059}\sqrt{3486e^{34}}, \frac{2}{1059}\sqrt{273e^{13}},$ $\frac{1}{1059}\sqrt{4942e^{25}}, \frac{2}{1059}\sqrt{273e^{14}} + \frac{3}{353}\sqrt{70e^{36}}$	$(\frac{10}{353}, -\frac{11}{1059}, \frac{5}{353}, -\frac{16}{353}, \frac{19}{1059}, -\frac{11}{353}, \frac{15}{353}, \frac{8}{1059}, -\frac{6}{353})$ $+ \frac{2}{353}\sqrt{182e^2} \otimes e_9 + \frac{2}{353}\sqrt{182e^3} \otimes e_8$	{128, 145689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:321	$0, 0, 0, 0, \frac{2}{141}\sqrt{105}e^{12}, \frac{4}{141}\sqrt{21}e^{34}, \frac{1}{141}\sqrt{462}e^{13}, \frac{1}{141}\sqrt{658}e^{25},$ $\frac{2}{141}\sqrt{105}e^{14} + \frac{2}{141}\sqrt{105}e^{36}$	$(-\frac{4}{47}, \frac{10}{141}, -\frac{2}{47}, \frac{5}{47}, -\frac{2}{141}, \frac{3}{47}, -\frac{6}{47}, \frac{8}{141}, \frac{1}{47})$ $+ \frac{2}{47}\sqrt{21}e^4 \otimes e_8 + \frac{4}{47}\sqrt{7}e^3 \otimes e_9$	{349, 4679}
952:321	$0, 0, 0, 0, \frac{4}{141}\sqrt{21}e^{12}, \frac{2}{141}\sqrt{105}e^{34}, \frac{2}{141}\sqrt{105}e^{13}, \frac{1}{141}\sqrt{658}e^{25},$ $\frac{1}{141}\sqrt{462}e^{14} + \frac{2}{141}\sqrt{105}e^{36}$	$(-\frac{2}{47}, -\frac{2}{141}, -\frac{1}{47}, \frac{6}{47}, -\frac{8}{141}, \frac{5}{47}, -\frac{3}{47}, -\frac{10}{141}, \frac{4}{47})$ $+ \frac{2}{47}\sqrt{21}e^2 \otimes e_7 + \frac{4}{47}\sqrt{7}e^3 \otimes e_8$	{1456789, 1578}
952:321	$0, 0, 0, 0, \frac{5}{129}\sqrt{170}e^{12}, \frac{5}{129}\sqrt{190}e^{34}, \frac{10}{43}\sqrt{10}e^{13}, \frac{5}{129}\sqrt{70}e^{25},$ $\frac{10}{43}\sqrt{10}e^{14} + \frac{5}{129}\sqrt{170}e^{36}$	$(-\frac{34}{129}, \frac{31}{129}, -\frac{17}{129}, \frac{74}{129}, -\frac{1}{43}, \frac{19}{43}, -\frac{17}{43}, \frac{28}{129}, \frac{40}{129})$ $+ \frac{10}{43}\sqrt{30}e^4 \otimes e_7$	{12345, 12579, 134, 179}
952:321	$0, 0, 0, 0, \frac{21}{439}\sqrt{66}e^{12}, \frac{7}{439}\sqrt{282}e^{34}, \frac{14}{439}\sqrt{78}e^{13}, \frac{7}{439}\sqrt{654}e^{25},$ $\frac{14}{439}\sqrt{123}e^{14} + \frac{21}{439}\sqrt{66}e^{36}$	$(-\frac{70}{439}, \frac{119}{439}, -\frac{35}{439}, \frac{42}{439}, \frac{49}{439}, \frac{7}{439}, -\frac{105}{439}, \frac{168}{439}, -\frac{28}{439})$ $+ \frac{14}{439}\sqrt{402}e^2 \otimes e_9 + \frac{28}{439}\sqrt{42}e^4 \otimes e_7$	{257, 349}
952:321	$0, 0, 0, 0, \frac{7}{1023}\sqrt{1974}e^{12}, \frac{7}{1023}\sqrt{1974}e^{34}, \frac{35}{1023}\sqrt{42}e^{13},$ $\frac{7}{1023}\sqrt{4774}e^{25}, \frac{35}{1023}\sqrt{42}e^{14} + \frac{7}{341}\sqrt{14}e^{36}$	$(-\frac{56}{341}, \frac{91}{1023}, -\frac{28}{341}, \frac{119}{341}, -\frac{7}{93}, \frac{91}{341}, -\frac{84}{341}, \frac{14}{1023}, \frac{63}{341})$ $+ \frac{70}{341}\sqrt{7}e^2 \otimes e_7 + \frac{70}{341}\sqrt{7}e^4 \otimes e_8$	{123689, 15789}
952:321	$0, 0, 0, 0, \frac{2}{543}\sqrt{32214}e^{12}, \frac{2}{543}\sqrt{1239}e^{34}, \frac{10}{543}\sqrt{1239}e^{13},$ $\frac{1}{543}\sqrt{149506}e^{25}, \frac{5}{543}\sqrt{2478}e^{14} + \frac{2}{543}\sqrt{1239}e^{36}$	$(-\frac{46}{181}, \frac{206}{543}, -\frac{23}{181}, \frac{54}{181}, \frac{68}{543}, \frac{31}{181}, -\frac{69}{181}, \frac{274}{543}, \frac{8}{181})$ $+ \frac{10}{181}\sqrt{413}e^2 \otimes e_7$	{123489, 12368, 1456789, 1578}
952:321	$0, 0, 0, 0, \frac{2}{543}\sqrt{1239}e^{12}, \frac{2}{543}\sqrt{32214}e^{34}, \frac{5}{543}\sqrt{2478}e^{13},$ $\frac{1}{543}\sqrt{149506}e^{25}, \frac{10}{543}\sqrt{1239}e^{14} + \frac{2}{543}\sqrt{1239}e^{36}$	$(\frac{4}{181}, -\frac{94}{543}, \frac{2}{181}, \frac{79}{181}, -\frac{82}{543}, \frac{81}{181}, \frac{6}{181}, -\frac{176}{543}, \frac{83}{181})$ $+ \frac{10}{181}\sqrt{413}e^4 \otimes e_8$	{23459, 245679, 349, 4679}
952:321	$0, 0, 0, 0, \frac{7}{561}\sqrt{570}e^{12}, \frac{7}{561}\sqrt{2130}e^{34}, \frac{14}{561}\sqrt{195}e^{13}, \frac{7}{561}\sqrt{1870}e^{25},$ $\frac{14}{561}\sqrt{390}e^{14} + \frac{7}{561}\sqrt{2130}e^{36}$	$(\frac{38}{187}, -\frac{151}{561}, \frac{19}{187}, \frac{12}{187}, -\frac{37}{561}, \frac{31}{187}, \frac{57}{187}, -\frac{188}{561}, \frac{50}{187})$ $+ \frac{14}{187}\sqrt{130}e^3 \otimes e_8$	{1246789, 1278, 1456789, 1578}
952:322	$0, 0, 0, 0, \frac{8}{205}\sqrt{230}e^{12}, \frac{8}{41}\sqrt{2}e^{34}, \frac{8}{205}\sqrt{255}e^{13}, \frac{24}{205}\sqrt{35}e^{25},$ $\frac{32}{205}\sqrt{5}e^{23} + \frac{8}{205}\sqrt{35}e^{46}$	$(-\frac{12}{41}, \frac{16}{41}, -\frac{4}{41}, \frac{8}{41}, \frac{4}{41}, -\frac{16}{41}, \frac{20}{41}, \frac{12}{41})$ $+ \frac{16}{205}\sqrt{210}e^2 \otimes e_7$	{123468, 1238, 2459, 2569}
952:322	$0, 0, 0, 0, \frac{8}{65}\sqrt{6}e^{12}, \frac{16}{65}\sqrt{6}e^{34}, \frac{8}{65}\sqrt{21}e^{13}, \frac{8}{65}\sqrt{13}e^{25},$ $\frac{16}{65}\sqrt{7}e^{23} + \frac{8}{65}\sqrt{31}e^{46}$	$(-\frac{16}{65}, \frac{4}{13}, -\frac{6}{65}, \frac{2}{13}, \frac{4}{65}, \frac{4}{65}, -\frac{22}{65}, \frac{24}{65}, \frac{14}{65})$ $+ \frac{24}{65}\sqrt{6}e^4 \otimes e_7$	{123489, 1278, 235679, 2456}
952:322	$0, 0, 0, 0, \frac{8}{505}\sqrt{145}e^{12}, \frac{4}{101}\sqrt{38}e^{34}, \frac{4}{505}\sqrt{105}e^{13}, \frac{4}{505}\sqrt{1165}e^{25},$ $\frac{4}{505}\sqrt{970}e^{23} + \frac{4}{505}\sqrt{985}e^{46}$	$(-\frac{14}{101}, \frac{4}{101}, \frac{10}{101}, \frac{2}{101}, -\frac{10}{101}, \frac{12}{101}, -\frac{4}{101}, -\frac{6}{101}, \frac{14}{101})$ $+ \frac{24}{505}\sqrt{15}e^2 \otimes e_7 + \frac{4}{101}\sqrt{66}e^4 \otimes e_8$	{123689, 2456}
952:322	$0, 0, 0, 0, \frac{8}{505}\sqrt{145}e^{12}, \frac{4}{101}\sqrt{38}e^{34}, \frac{4}{505}\sqrt{105}e^{13}, \frac{4}{505}\sqrt{985}e^{25},$ $\frac{4}{505}\sqrt{970}e^{23} + \frac{4}{505}\sqrt{1165}e^{46}$	$(\frac{38}{505}, -\frac{52}{505}, \frac{10}{101}, -\frac{26}{505}, -\frac{14}{505}, \frac{24}{505}, \frac{88}{505}, -\frac{66}{505}, -\frac{2}{505})$ $+ \frac{24}{505}\sqrt{15}e^1 \otimes e_9 + \frac{4}{101}\sqrt{66}e^4 \otimes e_8$	{1278, 234579}
952:322	$0, 0, 0, 0, \frac{8}{205}\sqrt{230}e^{12}, \frac{8}{41}\sqrt{2}e^{34}, \frac{8}{205}\sqrt{255}e^{13}, \frac{8}{205}\sqrt{35}e^{25},$ $\frac{32}{205}\sqrt{5}e^{23} + \frac{24}{205}\sqrt{35}e^{46}$	$(\frac{108}{205}, -\frac{32}{205}, -\frac{4}{41}, -\frac{16}{205}, \frac{76}{205}, -\frac{36}{205}, \frac{88}{205}, \frac{44}{205}, -\frac{52}{205})$ $+ \frac{16}{205}\sqrt{210}e^1 \otimes e_9$	{123468, 1238, 2459, 2569}
952:322	$0, 0, 0, 0, \frac{8}{319}\sqrt{66}e^{12}, \frac{8}{319}\sqrt{66}e^{34}, \frac{72}{319}\sqrt{3}e^{13}, \frac{56}{319}\sqrt{3}e^{25},$ $\frac{32}{319}\sqrt{6}e^{23} + \frac{56}{319}\sqrt{3}e^{46}$	$(\frac{76}{319}, -\frac{64}{319}, \frac{4}{29}, -\frac{32}{319}, \frac{12}{319}, \frac{12}{319}, \frac{120}{319}, -\frac{52}{319}, -\frac{20}{319})$ $+ \frac{16}{319}\sqrt{105}e^1 \otimes e_9 - \frac{16}{319}\sqrt{105}e^3 \otimes e_8$	{145678, 1578, 3479, 3679}
952:322	$0, 0, 0, 0, \frac{8}{319}\sqrt{66}e^{12}, \frac{8}{319}\sqrt{66}e^{34}, \frac{72}{319}\sqrt{3}e^{13}, \frac{56}{319}\sqrt{3}e^{25},$ $\frac{32}{319}\sqrt{6}e^{23} + \frac{56}{319}\sqrt{3}e^{46}$	$(\frac{76}{319}, -\frac{64}{319}, \frac{4}{29}, -\frac{32}{319}, \frac{12}{319}, \frac{12}{319}, \frac{120}{319}, -\frac{52}{319}, -\frac{20}{319})$ $+ \frac{16}{319}\sqrt{105}e^1 \otimes e_9 + \frac{16}{319}\sqrt{105}e^3 \otimes e_8$	{145678, 1578, 3479, 3679}
952:322	$0, 0, 0, 0, \frac{2}{131}\sqrt{310}e^{12}, \frac{4}{131}\sqrt{170}e^{34}, \frac{2}{131}\sqrt{30}e^{13}, \frac{2}{131}\sqrt{670}e^{25},$ $\frac{20}{131}\sqrt{7}e^{23} + \frac{2}{131}\sqrt{670}e^{46}$	$(-\frac{8}{131}, -\frac{8}{131}, \frac{25}{131}, -\frac{4}{131}, -\frac{16}{131}, \frac{21}{131}, \frac{17}{131}, -\frac{24}{131}, \frac{17}{131})$ $+ \frac{2}{131}\sqrt{1110}e^4 \otimes e_8$	{1236789, 128, 23459, 24567}
952:322	$0, 0, 0, 0, \frac{32}{3923}\sqrt{530}e^{12}, \frac{32}{3923}\sqrt{694}e^{34}, \frac{32}{3923}\sqrt{1173}e^{13},$ $\frac{160}{3923}\sqrt{17}e^{25}, \frac{64}{3923}\sqrt{205}e^{23} + \frac{32}{3923}\sqrt{1581}e^{46}$	$(\frac{240}{3923}, \frac{320}{3923}, -\frac{592}{3923}, \frac{160}{3923}, \frac{560}{3923}, -\frac{432}{3923}, -\frac{352}{3923}, \frac{880}{3923}, -\frac{272}{3923})$ $+ \frac{128}{3923}\sqrt{93}e^1 \otimes e_9 + \frac{192}{3923}\sqrt{55}e^4 \otimes e_7$	{1278, 235679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:322	$0, 0, 0, 0, \frac{8}{41}\sqrt{2}e^{12}, \frac{8}{205}\sqrt{230}e^{34}, \frac{8}{205}\sqrt{255}e^{13}, \frac{24}{205}\sqrt{35}e^{25},$ $\frac{32}{205}\sqrt{5}e^{23} + \frac{8}{205}\sqrt{35}e^{46}$	$(-\frac{4}{205}, -\frac{32}{205}, \frac{92}{205}, -\frac{16}{205}, -\frac{36}{205}, \frac{76}{205}, \frac{88}{205}, -\frac{68}{205}, \frac{12}{41})$ $+\frac{16}{205}\sqrt{210}e^3 \otimes e_8$	{1349, 1369, 4568, 58}
952:322	$0, 0, 0, 0, \frac{32}{3923}\sqrt{34}e^{12}, \frac{32}{3923}\sqrt{1190}e^{34}, \frac{32}{3923}\sqrt{1173}e^{13},$ $\frac{32}{3923}\sqrt{921}e^{25}, \frac{64}{3923}\sqrt{205}e^{23} + \frac{32}{3923}\sqrt{1085}e^{46}$	$(-\frac{752}{3923}, \frac{320}{3923}, \frac{400}{3923}, \frac{160}{3923}, -\frac{432}{3923}, \frac{560}{3923}, -\frac{352}{3923}, -\frac{112}{3923}, \frac{720}{3923})$ $+\frac{128}{3923}\sqrt{93}e^3 \otimes e_8 + \frac{192}{3923}\sqrt{55}e^4 \otimes e_7$	{1278, 235679}
952:322	$0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{8}{47}e^{34}, \frac{8}{47}\sqrt{3}e^{13}, \frac{4}{47}\sqrt{7}e^{25},$ $\frac{4}{47}\sqrt{5}e^{23} + \frac{4}{47}\sqrt{7}e^{46}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{12}{47}, -\frac{4}{47})$ $+\frac{4}{47}\sqrt{21}e^1 \otimes e_9 + \frac{4}{47}\sqrt{21}e^2 \otimes e_7$	{123468, 1238, 2459, 2569}
952:322	$0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{8}{47}e^{34}, \frac{8}{47}\sqrt{3}e^{13}, \frac{4}{47}\sqrt{7}e^{25},$ $\frac{4}{47}\sqrt{5}e^{23} + \frac{4}{47}\sqrt{7}e^{46}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{12}{47}, -\frac{4}{47})$ $+\frac{4}{47}\sqrt{21}e^1 \otimes e_9 - \frac{4}{47}\sqrt{21}e^2 \otimes e_7$	{123468, 1238, 2459, 2569}
952:323	$0, 0, 0, 0, \frac{28}{2657}\sqrt{17}e^{12}, \frac{14}{2657}\sqrt{759}e^{34}, \frac{14}{2657}\sqrt{1245}e^{13},$ $\frac{14}{2657}\sqrt{111}e^{25}, \frac{28}{2657}\sqrt{302}e^{24} + \frac{42}{2657}\sqrt{43}e^{36}$	$(-\frac{21}{2657}, \frac{154}{2657}, \frac{77}{2657}, -\frac{273}{2657}, \frac{133}{2657}, -\frac{196}{2657}, \frac{56}{2657}, \frac{287}{2657}, -\frac{119}{2657})$ $+\frac{14}{2657}\sqrt{1365}e^2 \otimes e_7 + \frac{84}{2657}\sqrt{31}e^1 \otimes e_9$	{15678, 34679}
952:323	$0, 0, 0, 0, \frac{3}{74}\sqrt{26}e^{12}, \frac{1}{74}\sqrt{390}e^{34}, \frac{1}{74}\sqrt{42}e^{13}, \frac{1}{74}\sqrt{426}e^{25},$ $\frac{1}{74}\sqrt{390}e^{24} + \frac{1}{74}\sqrt{390}e^{36}$	$(-\frac{3}{37}, 0, 0, \frac{5}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37})$ $-\frac{1}{74}\sqrt{618}e^3 \otimes e_8 + \frac{5}{74}\sqrt{6}e^2 \otimes e_7$	{124689, 128, 23459, 2356}
952:323	$0, 0, 0, 0, \frac{3}{74}\sqrt{26}e^{12}, \frac{1}{74}\sqrt{390}e^{34}, \frac{1}{74}\sqrt{42}e^{13}, \frac{1}{74}\sqrt{426}e^{25},$ $\frac{1}{74}\sqrt{390}e^{24} + \frac{1}{74}\sqrt{390}e^{36}$	$(-\frac{3}{37}, 0, 0, \frac{5}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37})$ $+\frac{1}{74}\sqrt{618}e^3 \otimes e_8 + \frac{5}{74}\sqrt{6}e^2 \otimes e_7$	{124689, 128, 23459, 2356}
952:323	$0, 0, 0, 0, \frac{10}{199}\sqrt{21}e^{12}, \frac{4}{199}\sqrt{105}e^{34}, \frac{1}{199}\sqrt{4746}e^{13}, \frac{3}{199}\sqrt{182}e^{25},$ $\frac{42}{199}\sqrt{3}e^{24} + \frac{10}{199}\sqrt{21}e^{36}$	$(\frac{26}{199}, -\frac{28}{199}, -\frac{14}{199}, \frac{33}{199}, -\frac{2}{199}, \frac{19}{199}, \frac{12}{199}, -\frac{30}{199}, \frac{5}{199})$ $+\frac{2}{199}\sqrt{1155}e^4 \otimes e_7 + \frac{4}{199}\sqrt{210}e^1 \otimes e_9$	{1678, 459}
952:323	$0, 0, 0, 0, \frac{2}{131}\sqrt{301}e^{12}, \frac{8}{131}\sqrt{35}e^{34}, \frac{4}{131}\sqrt{42}e^{13}, \frac{12}{131}\sqrt{14}e^{25},$ $\frac{2}{131}\sqrt{595}e^{24} + \frac{8}{131}\sqrt{35}e^{36}$	$(\frac{1}{131}, -\frac{10}{131}, -\frac{5}{131}, \frac{25}{131}, -\frac{9}{131}, \frac{20}{131}, -\frac{4}{131}, -\frac{19}{131}, \frac{15}{131})$ $+\frac{2}{131}\sqrt{777}e^3 \otimes e_8$	{124689, 128, 23459, 2356}
952:323	$0, 0, 0, 0, \frac{2}{191}\sqrt{385}e^{12}, \frac{6}{191}\sqrt{70}e^{34}, \frac{6}{191}\sqrt{14}e^{13}, \frac{28}{191}\sqrt{3}e^{25},$ $\frac{14}{191}\sqrt{13}e^{24} + \frac{20}{191}\sqrt{7}e^{36}$	$(\frac{19}{191}, -\frac{22}{191}, -\frac{11}{191}, \frac{27}{191}, -\frac{3}{191}, \frac{16}{191}, \frac{8}{191}, -\frac{25}{191}, \frac{5}{191})$ $+\frac{2}{191}\sqrt{210}e^1 \otimes e_9 + \frac{6}{191}\sqrt{105}e^3 \otimes e_8$	{128, 23459}
952:323	$0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{21}{61}\sqrt{2}e^{34}, \frac{42}{61}e^{13}, \frac{7}{61}\sqrt{6}e^{25},$ $\frac{7}{61}\sqrt{38}e^{24} + \frac{28}{61}e^{36}$	$(\frac{35}{61}, -\frac{14}{61}, -\frac{7}{61}, 0, \frac{21}{61}, -\frac{7}{61}, \frac{28}{61}, \frac{7}{61}, -\frac{14}{61})$ $+\frac{7}{61}\sqrt{102}e^1 \otimes e_9$	{12346, 1247, 235789, 25689}
952:323	$0, 0, 0, 0, \frac{2}{13}\sqrt{21}e^{12}, \frac{2}{13}\sqrt{7}e^{34}, \frac{3}{13}\sqrt{14}e^{13}, \frac{1}{13}\sqrt{42}e^{25},$ $\frac{2}{13}\sqrt{35}e^{24} + \frac{2}{13}\sqrt{21}e^{36}$	$(-\frac{2}{13}, 0, 0, \frac{5}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13})$ $+\frac{2}{13}\sqrt{42}e^4 \otimes e_7$	{134689, 1678, 357, 459}
952:323	$0, 0, 0, 0, \frac{32}{2213}\sqrt{11}e^{12}, \frac{32}{2213}\sqrt{115}e^{34}, \frac{96}{2213}\sqrt{70}e^{13}, \frac{64}{2213}\sqrt{123}e^{25},$ $\frac{32}{2213}\sqrt{737}e^{24} + \frac{32}{2213}\sqrt{386}e^{36}$	$(-\frac{432}{2213}, \frac{160}{2213}, \frac{80}{2213}, \frac{400}{2213}, -\frac{272}{2213}, \frac{480}{2213}, -\frac{352}{2213}, -\frac{112}{2213}, \frac{560}{2213})$ $+\frac{32}{2213}\sqrt{1191}e^2 \otimes e_7 + \frac{32}{2213}\sqrt{813}e^4 \otimes e_8$	{15678, 34679}
952:323	$0, 0, 0, 0, \frac{2}{19}\sqrt{7}e^{12}, \frac{1}{19}\sqrt{38}e^{34}, \frac{2}{19}\sqrt{6}e^{13}, \frac{6}{19}e^{25},$ $\frac{2}{19}\sqrt{13}e^{24} + \frac{2}{19}\sqrt{11}e^{36}$	$(\frac{2}{19}, -\frac{2}{19}, -\frac{1}{19}, \frac{2}{19}, 0, \frac{1}{19}, \frac{1}{19}, -\frac{2}{19}, 0)$ $+\frac{3}{19}\sqrt{2}e^4 \otimes e_7 + \frac{4}{19}\sqrt{3}e^3 \otimes e_8$	{128, 2356}
952:323	$0, 0, 0, 0, \frac{4}{583}\sqrt{167}e^{12}, \frac{2}{583}\sqrt{27555}e^{34}, \frac{2}{583}\sqrt{50601}e^{13}, \frac{2}{583}\sqrt{17535}e^{25},$ $\frac{4}{583}\sqrt{11189}e^{24} + \frac{2}{583}\sqrt{27555}e^{36}$	$(-\frac{21}{53}, \frac{206}{583}, \frac{103}{583}, -\frac{27}{583}, -\frac{25}{583}, \frac{76}{583}, -\frac{128}{583}, \frac{181}{583}, \frac{179}{583})$ $+\frac{26}{583}\sqrt{501}e^2 \otimes e_7$	{145789, 15678, 34679, 37}
952:323	$0, 0, 0, 0, \frac{2}{41}\sqrt{35}e^{12}, \frac{1}{41}\sqrt{70}e^{34}, \frac{1}{41}\sqrt{546}e^{13}, \frac{1}{41}\sqrt{42}e^{25},$ $\frac{14}{41}\sqrt{2}e^{24} + \frac{2}{41}\sqrt{70}e^{36}$	$(\frac{4}{41}, -\frac{7}{41}, -\frac{7}{82}, \frac{29}{82}, -\frac{3}{41}, \frac{11}{41}, \frac{1}{82}, -\frac{10}{41}, \frac{15}{82})$ $+\frac{2}{41}\sqrt{105}e^1 \otimes e_8 + \frac{3}{41}\sqrt{70}e^4 \otimes e_7$	{13469, 167, 3578, 4589}
952:323	$0, 0, 0, 0, \frac{2}{41}\sqrt{35}e^{12}, \frac{1}{41}\sqrt{70}e^{34}, \frac{1}{41}\sqrt{546}e^{13}, \frac{1}{41}\sqrt{42}e^{25},$ $\frac{14}{41}\sqrt{2}e^{24} + \frac{2}{41}\sqrt{70}e^{36}$	$(\frac{4}{41}, -\frac{7}{41}, -\frac{7}{82}, \frac{29}{82}, -\frac{3}{41}, \frac{11}{41}, \frac{1}{82}, -\frac{10}{41}, \frac{15}{82})$ $-\frac{2}{41}\sqrt{105}e^1 \otimes e_8 + \frac{3}{41}\sqrt{70}e^4 \otimes e_7$	{13469, 167, 3578, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:323	$0, 0, 0, 0, \frac{4}{317}\sqrt{861}e^{12}, \frac{2}{317}\sqrt{15785}e^{34}, \frac{1}{317}\sqrt{18942}e^{13}, \frac{3}{317}\sqrt{6314}e^{25},$ $\frac{2}{317}\sqrt{2870}e^{24} + \frac{4}{317}\sqrt{861}e^{36}$	$(\frac{68}{317}, -\frac{84}{317}, -\frac{42}{317}, \frac{187}{317}, -\frac{16}{317}, \frac{145}{317}, \frac{26}{317}, -\frac{100}{317}, \frac{103}{317})$ $+ \frac{2}{317}\sqrt{37023}e^4 \otimes e_8$	{135678, 158, 349, 4679}
952:323	$0, 0, 0, 0, \frac{2}{49}\sqrt{42}e^{12}, \frac{3}{49}\sqrt{14}e^{34}, \frac{6}{49}\sqrt{7}e^{13}, \frac{1}{49}\sqrt{210}e^{25},$ $\frac{1}{49}\sqrt{462}e^{24} + \frac{2}{49}\sqrt{42}e^{36}$	$(\frac{19}{49}, -\frac{2}{7}, -\frac{1}{7}, \frac{12}{49}, \frac{5}{49}, \frac{5}{49}, \frac{12}{49}, -\frac{9}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{966}e^1 \otimes e_9 - \frac{2}{49}\sqrt{210}e^4 \otimes e_8$	{13568, 1578, 3479, 469}
952:323	$0, 0, 0, 0, \frac{2}{49}\sqrt{42}e^{12}, \frac{3}{49}\sqrt{14}e^{34}, \frac{6}{49}\sqrt{7}e^{13}, \frac{1}{49}\sqrt{210}e^{25},$ $\frac{1}{49}\sqrt{462}e^{24} + \frac{2}{49}\sqrt{42}e^{36}$	$(\frac{19}{49}, -\frac{2}{7}, -\frac{1}{7}, \frac{12}{49}, \frac{5}{49}, \frac{5}{49}, \frac{12}{49}, -\frac{9}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{966}e^1 \otimes e_9 + \frac{2}{49}\sqrt{210}e^4 \otimes e_8$	{13568, 1578, 3479, 469}
952:324	$0, 0, 0, 0, \frac{22}{823}\sqrt{215}e^{12}, \frac{4}{823}\sqrt{6665}e^{34}, \frac{20}{823}\sqrt{989}e^{13}, \frac{2}{823}\sqrt{59555}e^{15},$ $\frac{6}{823}\sqrt{10965}e^{25} + \frac{2}{823}\sqrt{59555}e^{36}$	$(-\frac{216}{823}, \frac{243}{823}, \frac{29}{823}, \frac{212}{823}, \frac{27}{823}, \frac{241}{823}, -\frac{187}{823}, -\frac{189}{823}, \frac{270}{823})$ $+ \frac{70}{823}\sqrt{129}e^2 \otimes e_7$	{123469, 145789, 256, 378}
952:324	$0, 0, 0, 0, \frac{68}{559}\sqrt{11}e^{12}, \frac{17}{559}\sqrt{38}e^{34}, \frac{68}{559}\sqrt{26}e^{13}, \frac{136}{559}\sqrt{3}e^{15},$ $\frac{17}{559}\sqrt{462}e^{25} + \frac{85}{559}\sqrt{10}e^{36}$	$(-\frac{136}{559}, \frac{153}{559}, 0, \frac{170}{559}, \frac{17}{559}, \frac{170}{559}, -\frac{136}{559}, -\frac{119}{559}, \frac{170}{559})$ $+ \frac{17}{559}\sqrt{174}e^4 \otimes e_8 + \frac{68}{559}\sqrt{51}e^2 \otimes e_7$	{123469, 378}
952:324	$0, 0, 0, 0, \frac{2}{437}\sqrt{6227}e^{12}, \frac{1}{437}\sqrt{91010}e^{34}, \frac{4}{437}\sqrt{9101}e^{13}, \frac{2}{437}\sqrt{10538}e^{15},$ $\frac{6}{437}\sqrt{1437}e^{25} + \frac{2}{437}\sqrt{10538}e^{36}$	$(-\frac{8}{437}, \frac{2}{19}, -\frac{129}{437}, \frac{18}{23}, \frac{2}{437}, \frac{213}{437}, -\frac{137}{437}, \frac{30}{437}, \frac{84}{437})$ $+ \frac{11}{437}\sqrt{2874}e^4 \otimes e_7$	{123458, 134, 236789, 35679}
952:324	$0, 0, 0, 0, \frac{4}{59}\sqrt{21}e^{12}, \frac{6}{59}\sqrt{10}e^{34}, \frac{2}{59}\sqrt{138}e^{13}, \frac{4}{59}\sqrt{15}e^{15},$ $\frac{6}{59}\sqrt{10}e^{25} + \frac{4}{59}\sqrt{15}e^{36}$	$(-\frac{16}{59}, \frac{18}{59}, \frac{10}{59}, 0, \frac{2}{59}, \frac{10}{59}, -\frac{6}{59}, -\frac{14}{59}, \frac{20}{59})$ $+ \frac{20}{59}\sqrt{3}e^2 \otimes e_7 + \frac{2}{59}\sqrt{318}e^3 \otimes e_8$	{258, 367}
952:324	$0, 0, 0, 0, \frac{41}{5839}\sqrt{698}e^{12}, \frac{82}{5839}\sqrt{422}e^{34}, \frac{41}{5839}\sqrt{5906}e^{13},$ $\frac{41}{5839}\sqrt{3138}e^{15}, \frac{205}{5839}\sqrt{174}e^{25} + \frac{82}{5839}\sqrt{478}e^{36}$	$(-\frac{1312}{5839}, \frac{1476}{5839}, \frac{1107}{5839}, -\frac{574}{5839}, \frac{164}{5839}, \frac{533}{5839}, -\frac{205}{5839}, -\frac{1148}{5839}, \frac{1640}{5839})$ $+ \frac{41}{5839}\sqrt{3678}e^3 \otimes e_4 + \frac{41}{5839}\sqrt{7158}e^2 \otimes e_7$	{145789, 378}
952:324	$0, 0, 0, 0, \frac{12}{871}\sqrt{491}e^{12}, \frac{12}{871}\sqrt{491}e^{34}, \frac{32}{871}\sqrt{491}e^{13}, \frac{2}{871}\sqrt{16203}e^{15},$ $\frac{6}{871}\sqrt{491}e^{25} + \frac{8}{871}\sqrt{6383}e^{36}$	$(-\frac{3}{67}, \frac{193}{871}, \frac{443}{871}, -\frac{539}{871}, \frac{154}{871}, -\frac{96}{871}, \frac{404}{871}, \frac{115}{871}, \frac{347}{871})$ $+ \frac{2}{871}\sqrt{354993}e^3 \otimes e_4$	{123589, 139, 248, 45}
952:324	$0, 0, 0, 0, \frac{2}{107}\sqrt{21}e^{12}, \frac{3}{107}\sqrt{10}e^{34}, \frac{1}{107}\sqrt{22}e^{13}, \frac{4}{107}\sqrt{10}e^{15},$ $\frac{1}{107}\sqrt{30}e^{25} + \frac{4}{107}\sqrt{10}e^{36}$	$(\frac{2}{107}, -\frac{1}{107}, \frac{5}{107}, -\frac{10}{107}, \frac{1}{107}, -\frac{5}{107}, \frac{7}{107}, \frac{3}{107}, 0)$ $+ \frac{3}{107}\sqrt{22}e^3 \otimes e_8 - \frac{6}{107}\sqrt{5}e^1 \otimes e_9$	{128, 13567, 2456789, 349}
952:324	$0, 0, 0, 0, \frac{2}{107}\sqrt{21}e^{12}, \frac{3}{107}\sqrt{10}e^{34}, \frac{1}{107}\sqrt{22}e^{13}, \frac{4}{107}\sqrt{10}e^{15},$ $\frac{1}{107}\sqrt{30}e^{25} + \frac{4}{107}\sqrt{10}e^{36}$	$(\frac{2}{107}, -\frac{1}{107}, \frac{5}{107}, -\frac{10}{107}, \frac{1}{107}, -\frac{5}{107}, \frac{7}{107}, \frac{3}{107}, 0)$ $+ \frac{3}{107}\sqrt{22}e^3 \otimes e_8 + \frac{6}{107}\sqrt{5}e^1 \otimes e_9$	{128, 13567, 2456789, 349}
952:324	$0, 0, 0, 0, \frac{34}{3113}\sqrt{813}e^{12}, \frac{102}{3113}\sqrt{89}e^{34}, \frac{34}{3113}\sqrt{667}e^{13},$ $\frac{34}{3113}\sqrt{1303}e^{15}, \frac{34}{3113}\sqrt{129}e^{25} + \frac{68}{3113}\sqrt{214}e^{36}$	$(\frac{323}{3113}, -\frac{289}{3113}, -\frac{595}{3113}, \frac{85}{34}, \frac{34}{3113}, \frac{340}{3113}, -\frac{272}{3113}, \frac{357}{3113}, -\frac{255}{3113})$ $+ \frac{102}{3113}\sqrt{149}e^4 \otimes e_8 + \frac{306}{3113}\sqrt{17}e^1 \otimes e_9$	{123678, 128, 349, 4679}
952:324	$0, 0, 0, 0, \frac{34}{3113}\sqrt{813}e^{12}, \frac{102}{3113}\sqrt{89}e^{34}, \frac{34}{3113}\sqrt{667}e^{13},$ $\frac{34}{3113}\sqrt{1303}e^{15}, \frac{34}{3113}\sqrt{129}e^{25} + \frac{68}{3113}\sqrt{214}e^{36}$	$(\frac{323}{3113}, -\frac{289}{3113}, -\frac{595}{3113}, \frac{85}{283}, \frac{34}{3113}, \frac{340}{3113}, -\frac{272}{3113}, \frac{357}{3113}, -\frac{255}{3113})$ $+ \frac{102}{3113}\sqrt{149}e^4 \otimes e_8 - \frac{306}{3113}\sqrt{17}e^1 \otimes e_9$	{123678, 128, 349, 4679}
952:324	$0, 0, 0, 0, \frac{170}{1937}\sqrt{11}e^{12}, \frac{68}{1937}\sqrt{46}e^{34}, \frac{68}{1937}\sqrt{95}e^{13}, \frac{34}{1937}\sqrt{319}e^{15},$ $\frac{34}{1937}\sqrt{777}e^{25} + \frac{170}{1937}\sqrt{3}e^{36}$	$(-\frac{136}{1937}, \frac{153}{1937}, -\frac{289}{1937}, \frac{748}{1937}, \frac{17}{1937}, \frac{459}{1937}, -\frac{425}{1937}, -\frac{119}{1937}, \frac{170}{1937})$ $+ \frac{34}{1937}\sqrt{1005}e^2 \otimes e_7 - \frac{68}{1937}\sqrt{183}e^4 \otimes e_9$	{12369, 15789, 2456, 3478}
952:324	$0, 0, 0, 0, \frac{170}{1937}\sqrt{11}e^{12}, \frac{68}{1937}\sqrt{46}e^{34}, \frac{68}{1937}\sqrt{95}e^{13}, \frac{34}{1937}\sqrt{319}e^{15},$ $\frac{34}{1937}\sqrt{777}e^{25} + \frac{170}{1937}\sqrt{3}e^{36}$	$(-\frac{136}{1937}, \frac{153}{1937}, -\frac{289}{1937}, \frac{748}{1937}, \frac{17}{1937}, \frac{459}{1937}, -\frac{425}{1937}, -\frac{119}{1937}, \frac{170}{1937})$ $+ \frac{34}{1937}\sqrt{1005}e^2 \otimes e_7 + \frac{68}{1937}\sqrt{183}e^4 \otimes e_9$	{12369, 15789, 2456, 3478}
952:324	$0, 0, 0, 0, \frac{2}{119}\sqrt{354}e^{12}, \frac{3}{119}\sqrt{590}e^{34}, \frac{4}{119}\sqrt{118}e^{13}, \frac{1}{119}\sqrt{6490}e^{15},$ $\frac{2}{119}\sqrt{885}e^{25} + \frac{1}{119}\sqrt{6490}e^{36}$	$(-\frac{31}{119}, \frac{38}{119}, \frac{5}{17}, -\frac{25}{119}, \frac{1}{17}, \frac{10}{119}, \frac{4}{119}, -\frac{24}{119}, \frac{45}{119})$ $+ \frac{3}{119}\sqrt{1298}e^3 \otimes e_8$	{128, 13567, 2456789, 349}
952:324	$0, 0, 0, 0, \frac{42}{559}\sqrt{2}e^{12}, \frac{21}{559}\sqrt{118}e^{34}, \frac{14}{559}\sqrt{42}e^{13}, \frac{7}{559}\sqrt{858}e^{15},$ $\frac{14}{559}\sqrt{111}e^{25} + \frac{7}{559}\sqrt{858}e^{36}$	$(-\frac{119}{559}, \frac{126}{559}, \frac{35}{559}, \frac{63}{559}, \frac{7}{559}, \frac{98}{559}, -\frac{84}{559}, -\frac{112}{559}, \frac{133}{559})$ $+ \frac{28}{559}\sqrt{66}e^4 \otimes e_7 + \frac{7}{559}\sqrt{1914}e^3 \otimes e_8$	{1278, 245689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:324	$0, 0, 0, 0, \frac{136}{463}\sqrt{3}e^{12}, \frac{255}{463}\sqrt{2}e^{34}, \frac{34}{463}\sqrt{106}e^{13}, \frac{34}{463}\sqrt{130}e^{15},$ $\frac{17}{463}\sqrt{210}e^{25} + \frac{17}{463}\sqrt{262}e^{36}$	$(-\frac{68}{463}, \frac{85}{463}, -\frac{68}{463}, \frac{238}{463}, \frac{17}{463}, \frac{170}{463}, -\frac{136}{463}, -\frac{51}{463}, \frac{102}{463})$ $+ \frac{51}{463}\sqrt{86}e^4 \otimes e_8$	{123678, 128, 349, 4679}
952:325	$0, 0, 0, 0, \frac{4}{67}\sqrt{35}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13}, \frac{4}{67}\sqrt{70}e^{25},$ $\frac{2}{67}\sqrt{455}e^{15} + \frac{2}{67}\sqrt{665}e^{36}$	$(\frac{5}{67}, \frac{7}{67}, \frac{29}{67}, -\frac{41}{67}, \frac{12}{67}, -\frac{12}{67}, \frac{34}{67}, \frac{19}{67}, \frac{17}{67})$ $+ \frac{28}{67}\sqrt{10}e^3 \otimes e_4$	{12359, 147, 23789, 458}
952:325	$0, 0, 0, 0, \frac{24}{661}\sqrt{5}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{13}, \frac{8}{661}\sqrt{70}e^{25},$ $\frac{2}{661}\sqrt{55}e^{15} + \frac{2}{661}\sqrt{1205}e^{36}$	$(-\frac{5}{661}, \frac{13}{661}, \frac{31}{661}, -\frac{59}{661}, \frac{8}{661}, -\frac{28}{661}, \frac{26}{661}, \frac{21}{661}, \frac{3}{661})$ $+ \frac{20}{661}\sqrt{14}e^3 \otimes e_8 + \frac{8}{661}\sqrt{95}e^2 \otimes e_9$	{128, 145689, 2356, 349}
952:325	$0, 0, 0, 0, \frac{24}{661}\sqrt{5}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{13}, \frac{8}{661}\sqrt{70}e^{25},$ $\frac{2}{661}\sqrt{55}e^{15} + \frac{2}{661}\sqrt{1205}e^{36}$	$(-\frac{5}{661}, \frac{13}{661}, \frac{31}{661}, -\frac{59}{661}, \frac{8}{661}, -\frac{28}{661}, \frac{26}{661}, \frac{21}{661}, \frac{3}{661})$ $+ \frac{20}{661}\sqrt{14}e^3 \otimes e_8 - \frac{8}{661}\sqrt{95}e^2 \otimes e_9$	{128, 145689, 2356, 349}
952:325	$0, 0, 0, 0, \frac{2}{693}\sqrt{21910}e^{12}, \frac{2}{693}\sqrt{80754}e^{34}, \frac{2}{77}\sqrt{313}e^{13}, \frac{4}{693}\sqrt{19093}e^{25},$ $\frac{2}{693}\sqrt{12207}e^{15} + \frac{2}{693}\sqrt{25979}e^{36}$	$(\frac{179}{693}, -\frac{185}{693}, -\frac{131}{693}, \frac{145}{231}, -\frac{2}{693}, \frac{304}{693}, \frac{16}{231}, -\frac{191}{693}, \frac{173}{693})$ $+ \frac{4}{693}\sqrt{44133}e^4 \otimes e_8$	{123678, 128, 349, 4679}
952:325	$0, 0, 0, 0, \frac{28}{1935}\sqrt{3}e^{12}, \frac{7}{1935}\sqrt{4630}e^{34}, \frac{14}{1935}\sqrt{1365}e^{13},$ $\frac{14}{1935}\sqrt{1465}e^{25} + \frac{14}{1935}\sqrt{5}e^{15} + \frac{14}{1935}\sqrt{1010}e^{36}$	$(\frac{14}{129}, -\frac{56}{387}, -\frac{7}{129}, \frac{70}{387}, -\frac{14}{387}, \frac{49}{387}, \frac{7}{129}, -\frac{70}{387}, \frac{28}{387})$ $+ \frac{14}{1935}\sqrt{2805}e^3 \otimes e_8 + \frac{7}{1935}\sqrt{6270}e^4 \otimes e_7$	{123459, 24689}
952:325	$0, 0, 0, 0, \frac{204}{8773}\sqrt{165}e^{12}, \frac{51}{8773}\sqrt{2122}e^{34}, \frac{51}{8773}\sqrt{2590}e^{13},$ $\frac{102}{8773}\sqrt{1687}e^{25} + \frac{51}{8773}\sqrt{2698}e^{15} + \frac{1326}{8773}e^{36}$	$(-\frac{306}{8773}, \frac{561}{8773}, -\frac{1734}{8773}, \frac{3417}{8773}, \frac{255}{8773}, \frac{1683}{8773}, -\frac{2040}{8773}, \frac{816}{8773}, -\frac{51}{8773})$ $+ \frac{102}{8773}\sqrt{1759}e^4 \otimes e_8 + \frac{51}{8773}\sqrt{8590}e^2 \otimes e_7$	{12368, 3479}
952:325	$0, 0, 0, 0, \frac{1}{1647}\sqrt{25690}e^{12}, \frac{2}{1647}\sqrt{355990}e^{34}, \frac{1}{1647}\sqrt{1772610}e^{13},$ $\frac{10}{1647}\sqrt{4771}e^{25} + \frac{8}{1647}\sqrt{5505}e^{15} + \frac{1}{1647}\sqrt{113770}e^{36}$	$(-\frac{10}{549}, \frac{227}{1647}, -\frac{182}{549}, \frac{1259}{1647}, \frac{197}{1647}, \frac{713}{1647}, -\frac{64}{183}, \frac{424}{1647}, \frac{167}{1647})$ $+ \frac{1}{1647}\sqrt{4965510}e^4 \otimes e_7$	{12579, 134, 236789, 4568}
952:325	$0, 0, 0, 0, \frac{13}{565}\sqrt{86}e^{12}, \frac{78}{565}\sqrt{3}e^{34}, \frac{13}{565}\sqrt{427}e^{13}, \frac{13}{565}\sqrt{313}e^{25},$ $\frac{13}{565}\sqrt{254}e^{15} + \frac{13}{113}\sqrt{5}e^{36}$	$(-\frac{78}{565}, \frac{143}{565}, \frac{52}{565}, -\frac{117}{565}, \frac{13}{113}, -\frac{13}{113}, -\frac{26}{565}, \frac{208}{565}, -\frac{13}{565})$ $+ \frac{13}{565}\sqrt{445}e^3 \otimes e_4 + \frac{13}{565}\sqrt{582}e^2 \otimes e_7$	{245, 379}
952:325	$0, 0, 0, 0, \frac{40}{3429}\sqrt{174}e^{12}, \frac{20}{3429}\sqrt{6322}e^{34}, \frac{10}{3429}\sqrt{23577}e^{13},$ $\frac{80}{3429}\sqrt{667}e^{25} + \frac{10}{3429}\sqrt{28623}e^{15} + \frac{10}{3429}\sqrt{34829}e^{36}$	$(\frac{265}{1143}, -\frac{851}{3429}, \frac{181}{1143}, -\frac{347}{3429}, -\frac{56}{3429}, \frac{196}{3429}, \frac{446}{1143}, -\frac{907}{3429}, \frac{739}{3429})$ $+ \frac{220}{3429}\sqrt{174}e^3 \otimes e_8$	{123459, 136, 24689, 58}
952:325	$0, 0, 0, 0, \frac{11}{1665}\sqrt{7194}e^{12}, \frac{4}{1665}\sqrt{15587}e^{34}, \frac{8}{1665}\sqrt{2398}e^{13},$ $\frac{4}{1665}\sqrt{99517}e^{25} + \frac{109}{1665}\sqrt{66}e^{15} + \frac{8}{1665}\sqrt{11990}e^{36}$	$(-\frac{116}{555}, \frac{638}{1665}, -\frac{71}{555}, \frac{368}{1665}, \frac{58}{333}, \frac{31}{333}, -\frac{187}{555}, \frac{928}{1665}, -\frac{58}{1665})$ $+ \frac{1}{1665}\sqrt{3359598}e^2 \otimes e_7$	{123468, 156789, 245, 379}
952:325	$0, 0, 0, 0, \frac{1}{9135}\sqrt{1074}e^{12}, \frac{2}{9135}\sqrt{442}e^{34}, \frac{2}{3045}\sqrt{158}e^{13}, \frac{4}{9135}\sqrt{487}e^{25},$ $\frac{1}{9135}\sqrt{5106}e^{15} + \frac{1}{9135}\sqrt{3470}e^{36}$	$(-\frac{4}{3045}, \frac{22}{9135}, \frac{11}{3045}, -\frac{68}{9135}, \frac{2}{1827}, -\frac{1}{261}, \frac{435}{9135}, \frac{32}{9135}, -\frac{2}{9135})$ $+ \frac{1}{9135}\sqrt{7278}e^2 \otimes e_7 + \frac{4}{3045}\sqrt{65}e^3 \otimes e_8$	{1456789, 3479}
952:326	$0, 0, 0, 0, \frac{4}{1755}\sqrt{57481}e^{12}, \frac{1}{1755}\sqrt{300858}e^{34}, \frac{1}{1755}\sqrt{1533642}e^{13},$ $\frac{1}{1755}\sqrt{927034}e^{15} + \frac{16}{1755}\sqrt{7338}e^{25} + \frac{2}{1755}\sqrt{103955}e^{46}$	$(-\frac{122}{585}, \frac{47}{135}, -\frac{82}{585}, \frac{551}{1755}, \frac{49}{351}, \frac{61}{351}, -\frac{68}{195}, -\frac{121}{1755}, \frac{856}{1755})$ $+ \frac{1}{1755}\sqrt{3661662}e^2 \otimes e_7$	{123469, 1239, 245, 256}
952:326	$0, 0, 0, 0, \frac{2}{933}\sqrt{7961}e^{12}, \frac{1}{933}\sqrt{456710}e^{34}, \frac{1}{933}\sqrt{193578}e^{13},$ $\frac{2}{933}\sqrt{123605}e^{15} + \frac{8}{311}\sqrt{12570}e^{25} + \frac{1}{933}\sqrt{2095}e^{46}$	$(-\frac{257}{933}, \frac{221}{933}, \frac{545}{933}, -\frac{60}{311}, -\frac{12}{311}, \frac{365}{933}, \frac{96}{311}, -\frac{293}{933}, \frac{185}{933})$ $+ \frac{13}{311}\sqrt{838}e^3 \otimes e_8$	{124678, 1278, 3479, 3679}
952:326	$0, 0, 0, 0, \frac{54}{1789}\sqrt{106}e^{12}, \frac{81}{1789}\sqrt{30}e^{34}, \frac{27}{1789}\sqrt{958}e^{13}, \frac{27}{1789}\sqrt{10}e^{15},$ $\frac{54}{1789}\sqrt{195}e^{25} + \frac{54}{1789}\sqrt{30}e^{46}$	$(-\frac{486}{1789}, \frac{513}{1789}, \frac{270}{1789}, \frac{135}{1789}, \frac{27}{1789}, \frac{405}{1789}, -\frac{216}{1789}, -\frac{459}{1789}, \frac{540}{1789})$ $+ \frac{27}{1789}\sqrt{1810}e^2 \otimes e_7 + \frac{54}{1789}\sqrt{337}e^3 \otimes e_8$	{347, 367}
952:326	$0, 0, 0, 0, \frac{52}{739}\sqrt{11}e^{12}, \frac{52}{739}\sqrt{77}e^{34}, \frac{13}{739}\sqrt{1254}e^{13}, \frac{26}{739}\sqrt{407}e^{15},$ $\frac{78}{739}\sqrt{33}e^{25} + \frac{143}{739}\sqrt{10}e^{46}$	$(-\frac{156}{739}, \frac{143}{739}, \frac{130}{739}, 0, -\frac{13}{739}, \frac{130}{739}, -\frac{26}{739}, -\frac{169}{739}, \frac{130}{739})$ $+ \frac{26}{739}\sqrt{241}e^2 \otimes e_7 + \frac{26}{739}\sqrt{551}e^4 \otimes e_8$	{1456, 349}
952:326	$0, 0, 0, 0, \frac{2}{3977}\sqrt{813}e^{12}, \frac{2}{3977}\sqrt{983}e^{34}, \frac{2}{3977}\sqrt{483}e^{13}, \frac{2}{3977}\sqrt{1609}e^{15},$ $\frac{2}{3977}\sqrt{367}e^{25} + \frac{4}{3977}\sqrt{362}e^{46}$	$(\frac{17}{3977}, -\frac{1}{3977}, -\frac{55}{3977}, \frac{35}{3977}, \frac{16}{3977}, -\frac{20}{3977}, -\frac{38}{3977}, \frac{33}{3977}, \frac{15}{3977})$ $+ \frac{2}{3977}\sqrt{1511}e^1 \otimes e_9 + \frac{2}{3977}\sqrt{2021}e^4 \otimes e_8$	{128, 1456, 235689, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:326	$0, 0, 0, 0, \frac{2}{3977}\sqrt{813e^{12}}, \frac{2}{3977}\sqrt{983e^{34}}, \frac{2}{3977}\sqrt{483e^{13}}, \frac{2}{3977}\sqrt{1609e^{15}},$ $\frac{2}{3977}\sqrt{367e^{25}} + \frac{4}{3977}\sqrt{362e^{46}}$	$(\frac{17}{3977}, -\frac{1}{3977}, -\frac{55}{3977}, \frac{35}{3977}, \frac{16}{3977}, -\frac{20}{3977}, -\frac{38}{3977}, \frac{33}{3977}, \frac{15}{3977})$ $-\frac{2}{3977}\sqrt{1511e^1} \otimes e_9 + \frac{2}{3977}\sqrt{2021e^4} \otimes e_8$	{128, 1456, 235689, 349}
952:326	$0, 0, 0, 0, \frac{2}{3681}\sqrt{167555e^{12}}, \frac{20}{1227}\sqrt{1457e^{34}}, \frac{2}{1227}\sqrt{158813e^{13}},$ $\frac{94}{3681}\sqrt{31e^{15}}, \frac{4}{3681}\sqrt{74307e^{25}} + \frac{2}{3681}\sqrt{1886815e^{46}}$	$(-\frac{61}{1227}, \frac{955}{3681}, -\frac{415}{1227}, \frac{1486}{3681}, \frac{772}{3681}, \frac{241}{3681}, -\frac{476}{1227}, \frac{589}{3681}, \frac{1727}{3681})$ $+\frac{2}{3681}\sqrt{4436565e^4} \otimes e_7$	{1234589, 1349, 2468, 456}
952:326	$0, 0, 0, 0, \frac{40}{609}\sqrt{23e^{12}}, \frac{5}{1827}\sqrt{37306e^{34}}, \frac{10}{1827}\sqrt{6969e^{13}},$ $\frac{5}{1827}\sqrt{44942e^{15}}, \frac{10}{1827}\sqrt{5727e^{25}} + \frac{25}{1827}\sqrt{1426e^{46}}$	$(-\frac{401}{1827}, \frac{52}{203}, \frac{53}{1827}, \frac{241}{1827}, \frac{67}{1827}, \frac{14}{87}, -\frac{4}{21}, -\frac{334}{1827}, \frac{535}{1827})$ $+\frac{5}{1827}\sqrt{72174e^4} \otimes e_8$	{128, 1456, 235689, 349}
952:326	$0, 0, 0, 0, \frac{65}{697}\sqrt{2e^{12}}, \frac{13}{1394}\sqrt{1462e^{34}}, \frac{13}{1394}\sqrt{1190e^{13}}, \frac{13}{697}\sqrt{186e^{15}},$ $\frac{13}{1394}\sqrt{458e^{25}} + \frac{13}{697}\sqrt{305e^{46}}$	$(-\frac{143}{697}, \frac{156}{697}, \frac{39}{697}, \frac{65}{697}, \frac{13}{697}, \frac{104}{697}, -\frac{104}{697}, -\frac{130}{697}, \frac{169}{697})$ $+\frac{13}{1394}\sqrt{2374e^3} \otimes e_8 + \frac{13}{697}\sqrt{653e^4} \otimes e_7$	{123459, 4568}
952:327	$0, 0, 0, 0, \frac{12}{1093}\sqrt{30e^{12}}, \frac{12}{1093}\sqrt{30e^{34}}, \frac{4}{1093}\sqrt{2165e^{13}}, \frac{4}{1093}\sqrt{2345e^{25}},$ $\frac{4}{1093}\sqrt{1570e^{15}} + \frac{4}{1093}\sqrt{685e^{46}}$	$(-\frac{76}{1093}, \frac{72}{1093}, \frac{108}{1093}, -\frac{94}{1093}, -\frac{4}{1093}, \frac{14}{1093}, \frac{32}{1093}, \frac{68}{1093}, -\frac{80}{1093})$ $+\frac{4}{1093}\sqrt{2490e^2} \otimes e_7 + \frac{4}{1093}\sqrt{2490e^3} \otimes e_8$	{3479, 3679}
952:327	$0, 0, 0, 0, \frac{32}{4355}\sqrt{506e^{12}}, \frac{32}{4355}\sqrt{598e^{34}}, \frac{32}{4355}\sqrt{761e^{13}},$ $\frac{32}{4355}\sqrt{1821e^{25}}, \frac{64}{4355}\sqrt{277e^{15}} + \frac{32}{4355}\sqrt{1221e^{46}}$	$(\frac{64}{871}, -\frac{48}{4355}, -\frac{176}{871}, \frac{736}{4355}, \frac{272}{4355}, -\frac{144}{4355}, -\frac{112}{871}, \frac{224}{4355}, \frac{592}{4355})$ $+\frac{192}{871}\sqrt{2e^2} \otimes e_7 + \frac{64}{4355}\sqrt{519e^4} \otimes e_8$	{2456, 3479}
952:327	$0, 0, 0, 0, \frac{200}{1193}\sqrt{10e^{12}}, \frac{40}{1193}\sqrt{82e^{34}}, \frac{40}{1193}\sqrt{443e^{13}},$ $\frac{40}{1193}\sqrt{499e^{25}}, \frac{160}{1193}\sqrt{19e^{15}} + \frac{40}{1193}\sqrt{167e^{46}}$	$(-\frac{192}{1193}, \frac{444}{1193}, -\frac{164}{1193}, \frac{112}{1193}, \frac{252}{1193}, -\frac{52}{1193}, -\frac{356}{1193}, \frac{696}{1193}, \frac{60}{1193})$ $+\frac{80}{1193}\sqrt{249e^2} \otimes e_7$	{123468, 1238, 145789, 156789}
952:327	$0, 0, 0, 0, \frac{16}{245}\sqrt{14e^{12}}, \frac{16}{245}\sqrt{82e^{34}}, \frac{16}{245}e^{13}, \frac{48}{245}\sqrt{11e^{25}},$ $\frac{32}{245}\sqrt{13e^{15}} + \frac{48}{245}\sqrt{11e^{46}}$	$(\frac{16}{49}, -\frac{72}{245}, -\frac{8}{49}, \frac{64}{245}, \frac{8}{245}, \frac{24}{49}, \frac{8}{245}, -\frac{64}{245}, \frac{88}{245})$ $+\frac{32}{245}\sqrt{51e^4} \otimes e_8$	{128, 1356789, 24567, 349}
952:327	$0, 0, 0, 0, \frac{40}{1193}\sqrt{82e^{12}}, \frac{200}{1193}\sqrt{10e^{34}}, \frac{40}{1193}\sqrt{443e^{13}},$ $\frac{40}{1193}\sqrt{499e^{25}}, \frac{160}{1193}\sqrt{19e^{15}} + \frac{40}{1193}\sqrt{167e^{46}}$	$(\frac{140}{1193}, -\frac{220}{1193}, \frac{500}{1193}, -\frac{220}{1193}, \frac{80}{1193}, \frac{280}{1193}, \frac{640}{1193}, -\frac{300}{1193}, \frac{60}{1193})$ $+\frac{80}{1193}\sqrt{249e^3} \otimes e_8$	{123459, 123569, 4568, 58}
952:327	$0, 0, 0, 0, \frac{40}{1193}\sqrt{82e^{12}}, \frac{200}{1193}\sqrt{10e^{34}}, \frac{40}{1193}\sqrt{443e^{13}},$ $\frac{40}{1193}\sqrt{167e^{25}}, \frac{160}{1193}\sqrt{19e^{15}} + \frac{40}{1193}\sqrt{499e^{46}}$	$(\frac{140}{1193}, \frac{112}{1193}, -\frac{496}{1193}, \frac{444}{1193}, \frac{252}{1193}, -\frac{52}{1193}, -\frac{356}{1193}, \frac{364}{1193}, \frac{392}{1193})$ $+\frac{80}{1193}\sqrt{249e^4} \otimes e_7$	{123459, 17, 236789, 4568}
952:327	$0, 0, 0, 0, \frac{16}{1093}\sqrt{35e^{12}}, \frac{40}{1093}\sqrt{11e^{34}}, \frac{4}{1093}\sqrt{2165e^{13}}, \frac{4}{1093}\sqrt{1515e^{25}},$ $\frac{4}{1093}\sqrt{1570e^{15}} + \frac{4}{1093}\sqrt{1515e^{46}}$	$(\frac{90}{1093}, -\frac{94}{1093}, -\frac{58}{1093}, \frac{72}{1093}, -\frac{4}{1093}, \frac{14}{1093}, \frac{32}{1093}, -\frac{98}{1093}, \frac{86}{1093})$ $+\frac{4}{1093}\sqrt{2490e^3} \otimes e_8 + \frac{4}{1093}\sqrt{2490e^4} \otimes e_7$	{123459, 4568}
952:328	$0, 0, 0, 0, \frac{8}{797}\sqrt{1362e^{12}}, \frac{8}{797}\sqrt{690e^{34}}, \frac{24}{797}e^{14} + \frac{16}{797}\sqrt{87e^{23}},$ $\frac{16}{797}\sqrt{339e^{13}} + \frac{8}{797}\sqrt{1365e^{25}}, \frac{8}{797}\sqrt{1365e^{36}}$	$(\frac{120}{797}, \frac{4}{797}, \frac{8}{797}, -\frac{108}{797}, \frac{124}{797}, -\frac{100}{797}, \frac{12}{797}, \frac{128}{797}, -\frac{92}{797})$ $+\frac{96}{797}\sqrt{14e^2} \otimes e_9$	{123678, 134589}
952:328	$0, 0, 0, 0, \frac{336}{781}\sqrt{2e^{12}}, \frac{48}{781}\sqrt{26e^{34}}, \frac{48}{781}\sqrt{85e^{14}} + \frac{32}{781}\sqrt{255e^{23}},$ $\frac{64}{781}\sqrt{3e^{13}} + \frac{16}{781}\sqrt{489e^{25}}, \frac{16}{781}\sqrt{1137e^{36}}$	$(\frac{248}{781}, \frac{16}{781}, \frac{32}{781}, -\frac{200}{781}, \frac{24}{71}, -\frac{168}{781}, \frac{48}{781}, \frac{280}{781}, -\frac{136}{781})$ $+\frac{288}{781}\sqrt{6e^1} \otimes e_9$	{123678, 234579}
952:328	$0, 0, 0, 0, \frac{48}{781}\sqrt{26e^{12}}, \frac{336}{781}\sqrt{2e^{34}}, \frac{48}{781}\sqrt{85e^{14}} + \frac{32}{781}\sqrt{255e^{23}},$ $\frac{64}{781}\sqrt{3e^{13}} + \frac{16}{781}\sqrt{1137e^{25}}, \frac{16}{781}\sqrt{489e^{36}}$	$(-\frac{184}{781}, \frac{16}{781}, \frac{32}{781}, \frac{232}{781}, -\frac{168}{781}, \frac{24}{71}, \frac{48}{781}, -\frac{152}{781}, \frac{296}{781})$ $+\frac{288}{781}\sqrt{6e^4} \otimes e_8$	{123678, 234579}
952:329	$0, 0, 0, 0, \frac{49}{6309}\sqrt{4310e^{12}}, \frac{49}{2103}\sqrt{86e^{34}},$ $\frac{98}{6309}\sqrt{546e^{13}} + \frac{490}{6309}\sqrt{39e^{24}}, \frac{49}{6309}\sqrt{3478e^{15}}, \frac{98}{2103}\sqrt{39e^{23}} + \frac{49}{6309}\sqrt{5038e^{46}}$	$(\frac{147}{701}, \frac{98}{6309}, -\frac{392}{2103}, \frac{49}{6309}, \frac{1421}{6309}, -\frac{1127}{6309}, \frac{49}{2103}, \frac{2744}{6309}, -\frac{1078}{6309})$ $+\frac{196}{6309}\sqrt{663e^1} \otimes e_9$	{157, 3679}
952:329	$0, 0, 0, 0, \frac{67}{6129}\sqrt{214e^{12}}, \frac{67}{2043}\sqrt{354e^{34}},$ $\frac{670}{6129}\sqrt{15e^{13}} + \frac{335}{6129}\sqrt{78e^{24}}, \frac{67}{6129}\sqrt{3586e^{15}}, \frac{335}{2043}\sqrt{14e^{23}} + \frac{67}{6129}\sqrt{286e^{46}}$	$(-\frac{469}{2043}, \frac{536}{6129}, \frac{737}{2043}, \frac{268}{6129}, -\frac{871}{6129}, \frac{2479}{6129}, \frac{268}{2043}, -\frac{2278}{6129}, \frac{2747}{6129})$ $+\frac{670}{6129}\sqrt{102e^3} \otimes e_8$	{178, 4568}
952:329	$0, 0, 0, 0, \frac{43}{6237}\sqrt{1974e^{12}}, \frac{43}{6237}\sqrt{5510e^{34}},$ $\frac{86}{6237}\sqrt{858e^{13}} + \frac{86}{2079}\sqrt{65e^{24}}, \frac{43}{6237}\sqrt{5302e^{15}}, \frac{86}{6237}\sqrt{741e^{23}} + \frac{43}{6237}\sqrt{4366e^{46}}$	$(-\frac{989}{6237}, \frac{86}{2079}, \frac{1376}{6237}, \frac{43}{2079}, -\frac{731}{6237}, \frac{215}{891}, \frac{43}{693}, -\frac{1720}{6237}, \frac{1634}{6237})$ $+\frac{172}{6237}\sqrt{663e^4} \otimes e_8$	{1236789, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:331	$0, 0, 0, 0, \frac{37}{1597}\sqrt{190e^{12}}, \frac{37}{1597}\sqrt{1061e^{34}},$ $\frac{37}{1597}\sqrt{505e^{14}} + \frac{37}{1597}\sqrt{494e^{23}}, \frac{37}{1597}\sqrt{922e^{15}}, \frac{37}{1597}\sqrt{77e^{25}} + \frac{296}{1597}\sqrt{6e^{36}}$	$(-\frac{518}{1597}, \frac{481}{1597}, -\frac{185}{1597}, \frac{814}{1597}, -\frac{37}{1597}, \frac{629}{1597}, \frac{296}{1597}, -\frac{555}{1597}, \frac{444}{1597})$ $+\frac{37}{1597}\sqrt{2613e^4} \otimes e_8$	{123678, 4679}
952:338	$0, 0, 0, 0, \frac{1}{5}\sqrt{3e^{12}}, \frac{2}{5}\sqrt{3e^{34}}, \frac{1}{5}\sqrt{3e^{13}},$ $\frac{2}{5}\sqrt{3e^{15}} + \frac{1}{5}\sqrt{21e^{23}}, \frac{1}{5}\sqrt{21e^{14}} + \frac{1}{5}\sqrt{3e^{36}}$	$(0, \frac{2}{5}, 0, -\frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, 0, \frac{2}{5}, -\frac{1}{5})$ $+\frac{3}{5}\sqrt{3e^2} \otimes e_9$	{2678, 4579}
952:338	$0, 0, 0, 0, \frac{1}{13}\sqrt{114e^{12}}, \frac{12}{13}\sqrt{e^{34}}, \frac{1}{13}\sqrt{102e^{13}},$ $\frac{12}{13}e^{15} + \frac{1}{13}\sqrt{174e^{23}}, \frac{12}{13}e^{14} + \frac{12}{13}e^{36}$	$(0, \frac{3}{13}, 0, -\frac{2}{13}, \frac{3}{13}, -\frac{2}{13}, 0, \frac{3}{13}, -\frac{2}{13})$ $+\frac{3}{13}\sqrt{10e^2} \otimes e_7$	{2489, 268}
952:339	$0, 0, 0, 0, \frac{30}{973}\sqrt{102e^{12}}, \frac{15}{973}\sqrt{2022e^{34}}, \frac{240}{973}\sqrt{6e^{13}},$ $\frac{720}{973}e^{15} + \frac{15}{973}\sqrt{462e^{23}}, \frac{45}{973}\sqrt{94e^{24}} + \frac{30}{973}\sqrt{102e^{36}}$	$(-\frac{30}{973}, -\frac{120}{973}, -\frac{60}{973}, \frac{495}{973}, -\frac{150}{973}, \frac{435}{973}, -\frac{90}{973}, -\frac{180}{973}, \frac{375}{973})$ $+\frac{45}{973}\sqrt{538e^4} \otimes e_8$	{14569, 4679}
952:339	$0, 0, 0, 0, \frac{12}{101}\sqrt{33e^{12}}, \frac{6}{101}\sqrt{39e^{34}}, \frac{12}{101}\sqrt{57e^{13}},$ $\frac{18}{101}\sqrt{7e^{15}} + \frac{6}{101}\sqrt{15e^{23}}, \frac{18}{101}\sqrt{23e^{24}} + \frac{12}{101}\sqrt{33e^{36}}$	$(-\frac{3}{101}, -\frac{12}{101}, -\frac{6}{101}, \frac{45}{101}, -\frac{15}{101}, \frac{39}{101}, -\frac{9}{101}, -\frac{18}{101}, \frac{33}{101})$ $+\frac{18}{101}\sqrt{31e^4} \otimes e_7$	{13469, 357}
952:339	$0, 0, 0, 0, \frac{3}{253}\sqrt{777e^{12}}, \frac{6}{253}\sqrt{87e^{34}}, \frac{3}{253}\sqrt{123e^{13}},$ $\frac{18}{253}\sqrt{23e^{15}} + \frac{3}{253}\sqrt{843e^{23}}, \frac{9}{253}\sqrt{17e^{24}} + \frac{3}{253}\sqrt{777e^{36}}$	$(\frac{6}{253}, \frac{24}{253}, \frac{12}{253}, -\frac{45}{253}, \frac{30}{253}, -\frac{3}{253}, \frac{18}{253}, \frac{36}{253}, -\frac{21}{253})$ $+\frac{9}{253}\sqrt{143e^1} \otimes e_9$	{13567, 349}
952:339	$0, 0, 0, 0, \frac{1}{697}\sqrt{2202e^{12}}, \frac{6}{697}\sqrt{101e^{34}}, \frac{2}{697}\sqrt{1119e^{13}},$ $\frac{6}{697}\sqrt{67e^{15}} + \frac{4}{697}\sqrt{165e^{23}}, \frac{6}{697}\sqrt{102e^{24}} + \frac{6}{697}\sqrt{101e^{36}}$	$(\frac{3}{697}, \frac{12}{697}, \frac{6}{697}, -\frac{26}{697}, \frac{15}{697}, -\frac{20}{697}, \frac{9}{697}, \frac{18}{697}, -\frac{14}{697})$ $+\frac{3}{697}\sqrt{478e^2} \otimes e_7$	{1479, 167}
952:340	$0, 0, 0, 0, \frac{8}{53}\sqrt{10e^{12}}, \frac{8}{53}\sqrt{26e^{34}}, \frac{8}{53}\sqrt{3e^{13}},$ $\frac{16}{53}\sqrt{10e^{14}} + \frac{40}{53}e^{25}, \frac{16}{53}\sqrt{10e^{23}} + \frac{24}{53}e^{46}$	$(\frac{20}{53}, 0, -\frac{12}{53}, 0, \frac{20}{53}, -\frac{12}{53}, \frac{8}{53}, \frac{20}{53}, -\frac{12}{53})$ $+\frac{32}{53}\sqrt{3e^1} \otimes e_9$	{1678, 3579}
952:341	$0, 0, 0, 0, \frac{58}{3199}\sqrt{374e^{12}}, \frac{29}{3199}\sqrt{446e^{34}}, \frac{58}{3199}\sqrt{1038e^{13}},$ $\frac{29}{3199}\sqrt{2374e^{15}} + \frac{29}{3199}\sqrt{3542e^{24}}, \frac{29}{3199}\sqrt{2634e^{23}} + \frac{29}{3199}\sqrt{1830e^{46}}$	$(\frac{145}{3199}, \frac{580}{3199}, -\frac{696}{3199}, \frac{290}{3199}, \frac{725}{3199}, -\frac{58}{3199}, -\frac{551}{3199}, \frac{870}{3199}, -\frac{116}{3199})$ $+\frac{29}{3199}\sqrt{5826e^4} \otimes e_7$	{12578, 236789}
952:341	$0, 0, 0, 0, \frac{37}{2971}\sqrt{1198e^{12}}, \frac{74}{2971}\sqrt{761e^{34}}, \frac{74}{2971}\sqrt{969e^{13}},$ $\frac{74}{2971}\sqrt{661e^{15}} + \frac{74}{2971}\sqrt{1115e^{24}}, \frac{74}{2971}\sqrt{3e^{23}} + \frac{74}{2971}\sqrt{438e^{46}}$	$(\frac{185}{2971}, \frac{740}{2971}, -\frac{814}{2971}, \frac{370}{2971}, \frac{925}{2971}, -\frac{444}{2971}, -\frac{629}{2971}, \frac{1110}{2971}, -\frac{74}{2971})$ $+\frac{37}{2971}\sqrt{5538e^2} \otimes e_7$	{167, 3579}
952:341	$0, 0, 0, 0, \frac{13}{3751}\sqrt{4310e^{12}}, \frac{104}{3751}\sqrt{34e^{34}}, \frac{13}{3751}\sqrt{1698e^{13}},$ $\frac{26}{3751}\sqrt{1190e^{15}} + \frac{26}{3751}\sqrt{1270e^{24}}, \frac{195}{3751}\sqrt{6e^{23}} + \frac{156}{3751}\sqrt{26e^{46}}$	$(\frac{65}{3751}, \frac{260}{3751}, -\frac{364}{3751}, \frac{130}{3751}, \frac{325}{3751}, -\frac{234}{3751}, -\frac{299}{3751}, \frac{390}{3751}, -\frac{104}{3751})$ $+\frac{13}{3751}\sqrt{6402e^1} \otimes e_9$	{1456, 349}
952:341	$0, 0, 0, 0, \frac{49}{3469}\sqrt{1434e^{12}}, \frac{196}{3469}\sqrt{33e^{34}}, \frac{294}{3469}\sqrt{47e^{13}},$ $\frac{392}{3469}\sqrt{17e^{15}} + \frac{49}{3469}\sqrt{1982e^{24}}, \frac{196}{3469}\sqrt{105e^{23}} + \frac{49}{3469}\sqrt{870e^{46}}$	$(-\frac{147}{3469}, -\frac{588}{3469}, \frac{1519}{3469}, -\frac{294}{3469}, -\frac{735}{3469}, \frac{1225}{3469}, \frac{1372}{3469}, -\frac{882}{3469}, \frac{931}{3469})$ $+\frac{147}{3469}\sqrt{654e^3} \otimes e_8$	{12345, 2347}
952:342	$0, 0, 0, 0, \frac{11}{1189}\sqrt{114e^{12}}, \frac{308}{1189}\sqrt{3e^{34}}, \frac{11}{1189}\sqrt{4710e^{13}},$ $\frac{88}{1189}\sqrt{57e^{15}} + \frac{11}{1189}\sqrt{2766e^{23}}, \frac{396}{1189}\sqrt{3e^{25}} + \frac{88}{1189}\sqrt{57e^{36}}$	$(-\frac{88}{1189}, \frac{99}{1189}, -\frac{176}{1189}, \frac{462}{1189}, \frac{11}{1189}, \frac{286}{1189}, -\frac{264}{1189}, -\frac{77}{1189}, \frac{110}{1189})$ $+\frac{33}{1189}\sqrt{746e^2} \otimes e_7$	{167, 2489}
952:342	$0, 0, 0, 0, \frac{204}{1421}\sqrt{10e^{12}}, \frac{51}{1421}\sqrt{426e^{34}}, \frac{68}{1421}\sqrt{237e^{13}},$ $\frac{68}{1421}\sqrt{282e^{15}} + \frac{68}{1421}\sqrt{51e^{23}}, \frac{51}{1421}\sqrt{226e^{25}} + \frac{17}{1421}\sqrt{2118e^{36}}$	$(-\frac{136}{1421}, \frac{187}{1421}, -\frac{272}{1421}, \frac{782}{1421}, \frac{51}{1421}, \frac{510}{1421}, -\frac{408}{1421}, -\frac{85}{1421}, \frac{34}{203})$ $+\frac{51}{1421}\sqrt{798e^4} \otimes e_8$	{128, 4679}
952:342	$0, 0, 0, 0, \frac{44}{689}\sqrt{3e^{12}}, \frac{22}{689}\sqrt{582e^{34}}, \frac{44}{689}\sqrt{165e^{13}},$ $\frac{44}{689}\sqrt{21e^{15}} + \frac{22}{689}\sqrt{339e^{23}}, \frac{264}{689}\sqrt{2e^{25}} + \frac{44}{689}\sqrt{21e^{36}}$	$(-\frac{77}{689}, \frac{132}{689}, -\frac{154}{689}, \frac{495}{689}, \frac{55}{689}, \frac{341}{689}, -\frac{231}{689}, -\frac{22}{689}, \frac{187}{689})$ $-\frac{66}{689}\sqrt{190e^4} \otimes e_7$	{1279, 15789, 2456, 468}
952:342	$0, 0, 0, 0, \frac{44}{689}\sqrt{3e^{12}}, \frac{22}{689}\sqrt{582e^{34}}, \frac{44}{689}\sqrt{165e^{13}},$ $\frac{44}{689}\sqrt{21e^{15}} + \frac{22}{689}\sqrt{339e^{23}}, \frac{264}{689}\sqrt{2e^{25}} + \frac{44}{689}\sqrt{21e^{36}}$	$(-\frac{77}{689}, \frac{132}{689}, -\frac{154}{689}, \frac{495}{689}, \frac{55}{689}, \frac{341}{689}, -\frac{231}{689}, -\frac{22}{689}, \frac{187}{689})$ $+\frac{66}{689}\sqrt{190e^4} \otimes e_7$	{1279, 15789, 2456, 468}
952:342	$0, 0, 0, 0, \frac{456}{1237}\sqrt{3e^{12}}, \frac{456}{1237}\sqrt{3e^{34}}, \frac{19}{1237}\sqrt{2910e^{13}},$ $\frac{228}{1237}\sqrt{11e^{15}} + \frac{19}{1237}\sqrt{3126e^{23}}, \frac{228}{1237}\sqrt{3e^{25}} + \frac{19}{1237}\sqrt{606e^{36}}$	$(\frac{209}{1237}, -\frac{19}{1237}, \frac{418}{1237}, -\frac{665}{1237}, \frac{190}{1237}, -\frac{247}{1237}, \frac{627}{1237}, \frac{399}{1237}, \frac{171}{1237})$ $+\frac{57}{1237}\sqrt{730e^3} \otimes e_4$	{248, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:343	$0, 0, 0, 0, \frac{204}{1421}\sqrt{10}e^{12}, \frac{51}{1421}\sqrt{426}e^{34}, \frac{68}{1421}\sqrt{237}e^{13},$ $\frac{68}{1421}\sqrt{282}e^{15}, \frac{68}{1421}\sqrt{51}e^{14} + \frac{51}{1421}\sqrt{226}e^{25} + \frac{17}{1421}\sqrt{2118}e^{36}$	$(-\frac{272}{1421}, \frac{323}{1421}, -\frac{136}{1421}, \frac{646}{1421}, \frac{51}{1421}, \frac{510}{1421}, -\frac{408}{1421}, -\frac{221}{1421}, \frac{374}{1421})$ $+ \frac{51}{1421}\sqrt{798}e^4 \otimes e_8$	{349, 4679}
952:343	$0, 0, 0, 0, \frac{7}{325}\sqrt{447}e^{12}, \frac{14}{325}\sqrt{33}e^{34}, \frac{14}{325}\sqrt{255}e^{13}, \frac{7}{25}\sqrt{3}e^{15},$ $\frac{7}{325}\sqrt{411}e^{14} + \frac{21}{65}\sqrt{5}e^{25} + \frac{7}{25}\sqrt{3}e^{36}$	$(-\frac{56}{325}, \frac{63}{325}, -\frac{28}{325}, \frac{126}{325}, \frac{7}{325}, \frac{98}{325}, -\frac{84}{325}, -\frac{49}{325}, \frac{14}{65})$ $+ \frac{21}{325}\sqrt{193}e^2 \otimes e_7$	{123469, 145789}
952:343	$0, 0, 0, 0, \frac{4}{185}\sqrt{42}e^{12}, \frac{2}{185}\sqrt{327}e^{34}, \frac{2}{185}\sqrt{123}e^{13}, \frac{2}{185}\sqrt{366}e^{15},$ $\frac{2}{185}\sqrt{303}e^{14} + \frac{6}{185}\sqrt{13}e^{25} + \frac{2}{185}\sqrt{366}e^{36}$	$(-\frac{2}{37}, \frac{9}{185}, -\frac{1}{37}, \frac{18}{185}, -\frac{1}{185}, \frac{13}{185}, -\frac{3}{37}, -\frac{11}{185}, \frac{8}{185})$ $+ \frac{6}{185}\sqrt{53}e^3 \otimes e_8$	{128, 13567}
952:343	$0, 0, 0, 0, \frac{38}{1249}\sqrt{453}e^{12}, \frac{19}{1249}\sqrt{390}e^{34}, \frac{38}{1249}\sqrt{831}e^{13},$ $\frac{494}{1249}\sqrt{3}e^{15}, \frac{190}{1249}\sqrt{30}e^{14} + \frac{342}{1249}\sqrt{2}e^{25} + \frac{494}{1249}\sqrt{3}e^{36}$	$(-\frac{266}{1249}, \frac{342}{1249}, -\frac{133}{1249}, \frac{684}{1249}, \frac{76}{1249}, \frac{551}{1249}, -\frac{399}{1249}, -\frac{190}{1249}, \frac{418}{1249})$ $+ \frac{57}{1249}\sqrt{734}e^4 \otimes e_7$	{123458, 134}
952:344	$0, 0, 0, 0, \frac{24}{965}\sqrt{66}e^{12}, \frac{24}{965}\sqrt{158}e^{34}, \frac{8}{965}\sqrt{129}e^{13}, \frac{24}{965}\sqrt{181}e^{25},$ $\frac{16}{965}\sqrt{123}e^{15} + \frac{16}{193}\sqrt{15}e^{23} + \frac{24}{965}\sqrt{181}e^{46}$	$(\frac{12}{193}, -\frac{104}{965}, \frac{24}{193}, -\frac{52}{965}, -\frac{44}{965}, \frac{68}{965}, \frac{36}{193}, -\frac{148}{965}, \frac{16}{965})$ $+ \frac{48}{965}\sqrt{69}e^4 \otimes e_8$	{1278, 2456}
952:344	$0, 0, 0, 0, \frac{8}{37}\sqrt{3}e^{12}, \frac{16}{185}\sqrt{30}e^{34}, \frac{4}{185}\sqrt{1005}e^{13}, \frac{4}{185}\sqrt{1065}e^{25},$ $\frac{4}{37}\sqrt{30}e^{15} + \frac{4}{185}\sqrt{330}e^{23} + \frac{4}{185}\sqrt{285}e^{46}$	$(\frac{32}{185}, -\frac{44}{185}, \frac{64}{185}, -\frac{22}{185}, -\frac{12}{185}, \frac{42}{185}, \frac{96}{185}, -\frac{56}{185}, \frac{4}{37})$ $+ \frac{24}{185}\sqrt{65}e^3 \otimes e_8$	{4568, 58}
952:344	$0, 0, 0, 0, \frac{16}{949}\sqrt{138}e^{12}, \frac{16}{949}\sqrt{942}e^{34}, \frac{16}{949}\sqrt{1185}e^{13}, \frac{16}{949}\sqrt{741}e^{25},$ $\frac{64}{949}\sqrt{39}e^{15} + \frac{32}{949}\sqrt{291}e^{23} + \frac{16}{949}\sqrt{1545}e^{46}$	$(-\frac{88}{949}, \frac{240}{949}, -\frac{176}{949}, \frac{120}{949}, \frac{152}{949}, -\frac{56}{949}, -\frac{264}{949}, \frac{392}{949}, \frac{64}{949})$ $+ \frac{96}{949}\sqrt{67}e^4 \otimes e_7$	{1278, 2456}
952:344	$0, 0, 0, 0, \frac{16}{185}\sqrt{30}e^{12}, \frac{8}{37}\sqrt{3}e^{34}, \frac{4}{185}\sqrt{1005}e^{13}, \frac{4}{185}\sqrt{1065}e^{25},$ $\frac{4}{37}\sqrt{30}e^{15} + \frac{4}{185}\sqrt{330}e^{23} + \frac{4}{185}\sqrt{285}e^{46}$	$(-\frac{4}{37}, \frac{12}{37}, -\frac{8}{37}, \frac{6}{37}, \frac{8}{37}, -\frac{2}{37}, -\frac{12}{37}, \frac{20}{37}, \frac{4}{37})$ $+ \frac{24}{185}\sqrt{65}e^2 \otimes e_7$	{123468, 1238}
952:345	$0, 0, 0, 0, \frac{46}{2371}\sqrt{849}e^{12}, \frac{23}{2371}\sqrt{1822}e^{34}, \frac{138}{2371}\sqrt{137}e^{13},$ $\frac{46}{2371}\sqrt{258}e^{25}, \frac{276}{2371}\sqrt{15}e^{15} + \frac{46}{2371}\sqrt{1319}e^{24} + \frac{46}{2371}\sqrt{669}e^{36}$	$(\frac{322}{2371}, -\frac{414}{2371}, -\frac{207}{2371}, \frac{644}{2371}, \frac{92}{2371}, \frac{437}{2371}, \frac{115}{2371}, -\frac{506}{2371}, \frac{230}{2371})$ $+ \frac{23}{2371}\sqrt{4722}e^4 \otimes e_7$	{1678, 357}
952:345	$0, 0, 0, 0, \frac{53}{3157}\sqrt{210}e^{12}, \frac{106}{3157}\sqrt{485}e^{34}, \frac{106}{3157}\sqrt{69}e^{13},$ $\frac{318}{3157}\sqrt{57}e^{25}, \frac{318}{3157}\sqrt{17}e^{15} + \frac{53}{3157}\sqrt{770}e^{24} + \frac{159}{3157}\sqrt{46}e^{36}$	$(\frac{901}{3157}, -\frac{954}{3157}, -\frac{477}{3157}, \frac{1802}{3157}, -\frac{53}{3157}, \frac{1325}{3157}, \frac{424}{3157}, -\frac{1007}{3157}, \frac{848}{3157})$ $+ \frac{53}{3157}\sqrt{5190}e^4 \otimes e_8$	{349, 4679}
952:345	$0, 0, 0, 0, \frac{23}{2623}\sqrt{1222}e^{12}, \frac{552}{2623}\sqrt{5}e^{34}, \frac{92}{2623}\sqrt{291}e^{13},$ $\frac{460}{2623}\sqrt{3}e^{25}, \frac{69}{2623}\sqrt{290}e^{15} + \frac{2623}{2623}\sqrt{266}e^{24} + \frac{23}{2623}\sqrt{2010}e^{36}$	$(-\frac{276}{2623}, \frac{506}{2623}, \frac{253}{2623}, -\frac{552}{2623}, \frac{230}{2623}, -\frac{299}{2623}, -\frac{23}{2623}, \frac{736}{2623}, -\frac{46}{2623})$ $+ \frac{23}{2623}\sqrt{4974}e^2 \otimes e_7$	{167, 3578}
952:345	$0, 0, 0, 0, \frac{34}{3271}\sqrt{466}e^{12}, \frac{17}{3271}\sqrt{3730}e^{34}, \frac{51}{3271}\sqrt{86}e^{13},$ $\frac{17}{3271}\sqrt{3702}e^{25}, \frac{17}{3271}\sqrt{690}e^{15} + \frac{3271}{3271}\sqrt{3874}e^{24} + \frac{102}{3271}\sqrt{110}e^{36}$	$(\frac{272}{3271}, -\frac{374}{3271}, -\frac{187}{3271}, \frac{544}{3271}, \frac{102}{3271}, \frac{357}{3271}, \frac{85}{3271}, -\frac{476}{3271}, \frac{170}{3271})$ $+ \frac{51}{3271}\sqrt{622}e^3 \otimes e_8$	{128, 2356}
952:346	$0, 0, 0, 0, \frac{16}{783}\sqrt{514}e^{12}, \frac{128}{783}\sqrt{6}e^{34}, \frac{64}{783}\sqrt{69}e^{13},$ $\frac{32}{783}\sqrt{199}e^{15} + \frac{16}{87}\sqrt{6}e^{23}, \frac{32}{783}\sqrt{309}e^{25} + \frac{16}{783}\sqrt{266}e^{46}$	$(-\frac{32}{261}, \frac{224}{783}, -\frac{64}{261}, \frac{272}{783}, \frac{128}{783}, \frac{80}{783}, -\frac{32}{87}, \frac{32}{783}, \frac{352}{783})$ $+ \frac{16}{783}\sqrt{2694}e^2 \otimes e_7$	{123469, 1239}
952:346	$0, 0, 0, 0, \frac{70}{1287}\sqrt{62}e^{15} + \frac{429}{1287}\sqrt{95}e^{23}, \frac{14}{1287}\sqrt{1155}e^{25} + \frac{7}{1287}\sqrt{5830}e^{46}$	$(-\frac{98}{1287}, \frac{21}{143}, -\frac{196}{1287}, \frac{238}{1287}, \frac{7}{99}, \frac{14}{429}, -\frac{98}{429}, -\frac{7}{1287}, \frac{280}{1287})$ $+ \frac{28}{1287}\sqrt{705}e^4 \otimes e_8$	{128, 1456}
952:346	$0, 0, 0, 0, \frac{71}{6633}\sqrt{130}e^{12}, \frac{71}{6633}\sqrt{422}e^{34}, \frac{71}{6633}\sqrt{30}e^{13},$ $\frac{71}{6633}\sqrt{206}e^{15} + \frac{71}{6633}\sqrt{1758}e^{23}, \frac{142}{6633}\sqrt{57}e^{25} + \frac{71}{6633}\sqrt{4498}e^{46}$	$(-\frac{284}{2211}, \frac{2059}{6633}, -\frac{568}{2211}, \frac{2485}{6633}, \frac{1207}{6633}, \frac{71}{603}, -\frac{284}{737}, \frac{355}{6633}, \frac{3266}{6633})$ $+ \frac{142}{6633}\sqrt{2751}e^4 \otimes e_7$	{2356789, 3679}
952:347	$0, 0, 0, 0, \frac{30}{1151}\sqrt{385}e^{12}, \frac{195}{1151}\sqrt{10}e^{34}, \frac{30}{1151}\sqrt{805}e^{13},$ $\frac{30}{1151}\sqrt{805}e^{14} + \frac{30}{1151}\sqrt{15}e^{25}, \frac{30}{1151}\sqrt{395}e^{15} + \frac{30}{1151}\sqrt{15}e^{36}$	$(-\frac{150}{1151}, \frac{330}{1151}, -\frac{315}{1151}, \frac{660}{1151}, \frac{180}{1151}, \frac{345}{1151}, -\frac{465}{1151}, \frac{510}{1151}, \frac{30}{1151})$ $+ \frac{15}{1151}\sqrt{9690}e^4 \otimes e_7$	{123459, 24689}
952:347	$0, 0, 0, 0, \frac{18}{1211}\sqrt{310}e^{12}, \frac{9}{1211}\sqrt{2230}e^{34}, \frac{9}{1211}\sqrt{2710}e^{13},$ $\frac{9}{1211}\sqrt{2710}e^{14} + \frac{36}{1211}\sqrt{285}e^{25}, \frac{18}{1211}\sqrt{1070}e^{15} + \frac{36}{1211}\sqrt{285}e^{36}$	$(\frac{180}{1211}, -\frac{162}{1211}, \frac{261}{1211}, -\frac{324}{1211}, \frac{18}{1211}, -\frac{9}{173}, \frac{63}{173}, -\frac{144}{1211}, \frac{198}{1211})$ $+ \frac{9}{1211}\sqrt{10410}e^3 \otimes e_8$	{123459, 24689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:347	$0, 0, 0, 0, \frac{285}{5887} \sqrt{146}e^{12}, \frac{114}{5887} \sqrt{70}e^{34}, \frac{114}{5887} \sqrt{1114}e^{13},$ $\frac{228}{5887} \sqrt{227}e^{14} + \frac{684}{5887} \sqrt{39}e^{25}, \frac{57}{5887} \sqrt{1442}e^{15} + \frac{855}{5887} \sqrt{2}e^{36}$	$(-\frac{684}{5887}, \frac{1254}{5887}, -\frac{1311}{5887}, \frac{2508}{5887}, \frac{570}{5887}, \frac{171}{841}, -\frac{285}{841}, \frac{1824}{5887}, -\frac{114}{5887})$ $+\frac{57}{5887} \sqrt{10110}e^2 \otimes e_7$	{12348, 2456}
952:348	$0, 0, 0, 0, \frac{410}{3139} \sqrt{29}e^{12}, \frac{41}{3139} \sqrt{970}e^{34}, \frac{82}{3139} \sqrt{1223}e^{13},$ $\frac{82}{3139} \sqrt{745}e^{15} + \frac{82}{3139} \sqrt{1074}e^{24}, \frac{164}{3139} \sqrt{15}e^{25} + \frac{246}{3139} \sqrt{43}e^{36}$	$(\frac{738}{3139}, -\frac{574}{3139}, -\frac{943}{3139}, \frac{1476}{3139}, \frac{164}{3139}, \frac{533}{3139}, -\frac{205}{3139}, \frac{902}{3139}, -\frac{410}{3139})$ $+\frac{41}{3139} \sqrt{5790}e^4 \otimes e_7$	{125678, 167}
952:348	$0, 0, 0, 0, \frac{2}{377} \sqrt{310}e^{12}, \frac{40}{377} \sqrt{2}e^{34}, \frac{16}{377} \sqrt{23}e^{13},$ $\frac{4}{377} \sqrt{265}e^{15} + \frac{2}{377} \sqrt{966}e^{24}, \frac{4}{377} \sqrt{195}e^{25} + \frac{6}{377} \sqrt{82}e^{36}$	$(-\frac{16}{377}, \frac{18}{377}, \frac{2}{29}, -\frac{32}{377}, \frac{2}{377}, -\frac{6}{377}, \frac{10}{377}, -\frac{14}{377}, \frac{20}{377})$ $+\frac{14}{377} \sqrt{30}e^2 \otimes e_7$	{12358, 167}
952:348	$0, 0, 0, 0, \frac{40}{473} \sqrt{3}e^{12}, \frac{90}{473} \sqrt{6}e^{34}, \frac{10}{473} \sqrt{10}e^{13},$ $\frac{20}{473} \sqrt{167}e^{15} + \frac{20}{473} \sqrt{111}e^{24}, \frac{10}{473} \sqrt{546}e^{25} + \frac{40}{473} \sqrt{51}e^{36}$	$(-\frac{80}{473}, \frac{10}{43}, \frac{150}{473}, -\frac{160}{473}, \frac{30}{473}, -\frac{10}{473}, \frac{70}{473}, -\frac{50}{473}, \frac{140}{473})$ $+\frac{30}{473} \sqrt{178}e^3 \otimes e_8$	{1234579, 14689}
952:349	$0, 0, 0, 0, \frac{8}{185} \sqrt{3}e^{12}, \frac{16}{185} \sqrt{30}e^{34}, \frac{4}{185} \sqrt{1005}e^{13},$ $\frac{4}{185} \sqrt{330}e^{14} + \frac{4}{185} \sqrt{1065}e^{25}, \frac{4}{37} \sqrt{30}e^{15} + \frac{4}{185} \sqrt{285}e^{46}$	$(\frac{2}{37}, -\frac{22}{185}, \frac{86}{185}, -\frac{44}{185}, -\frac{12}{185}, \frac{42}{185}, \frac{96}{185}, -\frac{34}{185}, -\frac{2}{185})$ $+\frac{24}{185} \sqrt{65}e^3 \otimes e_8$	{123459, 4568}
952:349	$0, 0, 0, 0, \frac{16}{949} \sqrt{942}e^{12}, \frac{16}{949} \sqrt{138}e^{34}, \frac{16}{949} \sqrt{1185}e^{13},$ $\frac{32}{949} \sqrt{291}e^{14} + \frac{16}{949} \sqrt{1545}e^{25}, \frac{64}{949} \sqrt{39}e^{15} + \frac{16}{949} \sqrt{741}e^{46}$	$(\frac{32}{949}, \frac{120}{949}, -\frac{296}{949}, \frac{240}{949}, \frac{152}{949}, -\frac{56}{949}, -\frac{264}{949}, \frac{272}{949}, \frac{184}{949})$ $+\frac{96}{949} \sqrt{67}e^2 \otimes e_7$	{2456, 3479}
952:349	$0, 0, 0, 0, \frac{8}{185} \sqrt{3}e^{12}, \frac{16}{185} \sqrt{30}e^{34}, \frac{4}{185} \sqrt{1005}e^{13},$ $\frac{4}{185} \sqrt{330}e^{14} + \frac{4}{185} \sqrt{285}e^{25}, \frac{4}{37} \sqrt{30}e^{15} + \frac{4}{185} \sqrt{1065}e^{46}$	$(\frac{2}{37}, \frac{6}{37}, -\frac{14}{37}, \frac{12}{37}, \frac{8}{37}, -\frac{2}{37}, -\frac{12}{37}, \frac{14}{37}, \frac{10}{37})$ $+\frac{24}{185} \sqrt{65}e^4 \otimes e_7$	{123459, 4568}
952:350	$0, 0, 0, 0, \frac{28}{503} \sqrt{78}e^{12}, \frac{14}{503} \sqrt{254}e^{34}, \frac{14}{503} \sqrt{582}e^{13},$ $\frac{252}{503} e^{15} + \frac{28}{503} \sqrt{167}e^{24}, \frac{14}{503} \sqrt{210}e^{25} + \frac{56}{503} \sqrt{3}e^{46}$	$(-\frac{70}{503}, \frac{42}{503}, \frac{294}{503}, -\frac{140}{503}, -\frac{28}{503}, \frac{154}{503}, \frac{224}{503}, -\frac{98}{503}, \frac{14}{503})$ $+\frac{14}{503} \sqrt{1698}e^3 \otimes e_8$	{146789, 2347}
952:350	$0, 0, 0, 0, \frac{46}{3451} e^{12}, \frac{138}{3451} \sqrt{93}e^{34}, \frac{69}{3451} \sqrt{582}e^{13},$ $\frac{46}{3451} \sqrt{1077}e^{15} + \frac{46}{3451} \sqrt{1283}e^{24}, \frac{552}{3451} \sqrt{5}e^{25} + \frac{23}{3451} \sqrt{2562}e^{46}$	$(\frac{276}{3451}, \frac{23}{3451}, -\frac{46}{203}, \frac{552}{3451}, \frac{299}{3451}, -\frac{230}{3451}, -\frac{506}{3451}, \frac{575}{3451}, \frac{46}{493})$ $+\frac{92}{3451} \sqrt{411}e^2 \otimes e_7$	{167, 3579}
952:351	$0, 0, 0, 0, \frac{92}{765} \sqrt{21}e^{12}, \frac{161}{765} \sqrt{2}e^{34}, \frac{23}{255} \sqrt{58}e^{13},$ $\frac{23}{765} \sqrt{354}e^{15} + \frac{92}{765} \sqrt{5}e^{36}, \frac{92}{765} \sqrt{43}e^{25} + \frac{46}{255} \sqrt{5}e^{46}$	$(-\frac{46}{255}, \frac{253}{765}, -\frac{46}{255}, \frac{253}{765}, \frac{23}{153}, \frac{23}{153}, -\frac{92}{255}, -\frac{23}{765}, \frac{368}{765})$ $+\frac{23}{765} \sqrt{1302}e^2 \otimes e_7$	{123469, 245}
952:352	$0, 0, 0, 0, \frac{8}{221} \sqrt{10}e^{12}, \frac{8}{221} \sqrt{58}e^{34}, \frac{8}{221} \sqrt{191}e^{13},$ $\frac{40}{221} \sqrt{7}e^{25} + \frac{16}{221} \sqrt{38}e^{36}, \frac{16}{221} \sqrt{38}e^{15} + \frac{8}{221} \sqrt{107}e^{46}$	$(-\frac{32}{221}, \frac{36}{221}, \frac{36}{221}, -\frac{32}{221}, \frac{4}{221}, \frac{4}{221}, \frac{4}{221}, \frac{40}{221}, -\frac{28}{221})$ $+\frac{16}{221} \sqrt{51}e^2 \otimes e_7$	{123468, 145789}
952:401	$0, 0, 0, 0, \frac{155}{1669} \sqrt{23}e^{12}, \frac{31}{1669} \sqrt{165}e^{13}, \frac{31}{1669} \sqrt{65}e^{24},$ $\frac{31}{1669} \sqrt{707}e^{15}, \frac{31}{1669} \sqrt{509}e^{16} + \frac{775}{1669} e^{27}$	$(-\frac{279}{1669}, \frac{403}{1669}, \frac{806}{1669}, -\frac{558}{1669}, \frac{124}{1669}, \frac{527}{1669}, -\frac{155}{1669}, -\frac{155}{1669}, \frac{248}{1669})$ $-\frac{31}{1669} \sqrt{1397}e^3 \otimes e_8 + \frac{31}{1669} \sqrt{1561}e^2 \otimes e_4$	{12689, 1345, 2589, 346}
952:401	$0, 0, 0, 0, \frac{155}{1669} \sqrt{23}e^{12}, \frac{31}{1669} \sqrt{165}e^{13}, \frac{31}{1669} \sqrt{65}e^{24},$ $\frac{31}{1669} \sqrt{707}e^{15}, \frac{31}{1669} \sqrt{509}e^{16} + \frac{775}{1669} e^{27}$	$(-\frac{279}{1669}, \frac{403}{1669}, \frac{806}{1669}, -\frac{558}{1669}, \frac{124}{1669}, \frac{527}{1669}, -\frac{155}{1669}, -\frac{155}{1669}, \frac{248}{1669})$ $+\frac{31}{1669} \sqrt{1397}e^3 \otimes e_8 + \frac{31}{1669} \sqrt{1561}e^2 \otimes e_4$	{12689, 1345, 2589, 346}
952:401	$0, 0, 0, 0, \frac{24}{97} \sqrt{5}e^{12}, \frac{8}{97} \sqrt{22}e^{13}, \frac{20}{97} \sqrt{2}e^{24}, \frac{4}{97} \sqrt{114}e^{15},$ $\frac{4}{97} \sqrt{26}e^{16} + \frac{8}{97} \sqrt{3}e^{27}$	$(\frac{12}{97}, \frac{12}{97}, -\frac{20}{97}, -\frac{20}{97}, \frac{24}{97}, -\frac{8}{97}, -\frac{8}{97}, \frac{36}{97}, \frac{4}{97})$ $+\frac{12}{97} \sqrt{22}e^1 \otimes e_3 + \frac{16}{97} \sqrt{10}e^2 \otimes e_4$	{145, 23589}
952:401	$0, 0, 0, 0, \frac{6}{2641} \sqrt{151985}e^{12}, \frac{8}{2641} \sqrt{29590}e^{13}, \frac{20}{2641} \sqrt{2690}e^{24},$ $\frac{4}{2641} \sqrt{153330}e^{15}, \frac{2}{2641} \sqrt{805655}e^{16} + \frac{2}{2641} \sqrt{996645}e^{27}$	$(-\frac{105}{2641}, \frac{57}{139}, \frac{769}{2641}, -\frac{1607}{2641}, \frac{978}{2641}, \frac{664}{2641}, -\frac{524}{2641}, \frac{873}{2641}, \frac{559}{2641})$ $+\frac{8}{2641} \sqrt{186955}e^2 \otimes e_4$	{123689, 145, 23589, 46}
952:401	$0, 0, 0, 0, \frac{80}{163} \sqrt{3}e^{12}, \frac{16}{163} \sqrt{38}e^{13}, \frac{8}{163} \sqrt{70}e^{24}, \frac{8}{163} \sqrt{246}e^{15},$ $\frac{8}{163} \sqrt{66}e^{16} + \frac{16}{163} \sqrt{23}e^{27}$	$(\frac{48}{163}, -\frac{12}{163}, -\frac{80}{163}, \frac{40}{163}, \frac{36}{163}, -\frac{32}{163}, \frac{28}{163}, \frac{84}{163}, \frac{16}{163})$ $+\frac{8}{163} \sqrt{562}e^1 \otimes e_3$	{124789, 1459, 2358, 37}
952:401	$0, 0, 0, 0, \frac{2}{2817} \sqrt{371381}e^{12}, \frac{2}{2817} \sqrt{1211226}e^{13}, \frac{2}{2817} \sqrt{397578}e^{24},$ $\frac{20}{2817} \sqrt{10787}e^{15}, \frac{46}{2817} \sqrt{201}e^{16} + \frac{2}{2817} \sqrt{433021}e^{27}$	$(-\frac{643}{2817}, \frac{235}{2817}, \frac{677}{2817}, \frac{275}{2817}, -\frac{136}{939}, \frac{1388}{2817}, \frac{170}{939}, -\frac{1051}{2817}, \frac{745}{2817})$ $+\frac{4}{2817} \sqrt{879911}e^3 \otimes e_8$	{12357, 146789, 2367, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:401	$0, 0, 0, 0, \frac{10}{557} \sqrt{257}e^{12}, \frac{2}{557} \sqrt{7710}e^{13}, \frac{2}{557} \sqrt{49858}e^{24}, \frac{4}{557} \sqrt{13621}e^{15},$ $\frac{14}{557} \sqrt{257}e^{16} + \frac{2}{557} \sqrt{14649}e^{27}$	$(-\frac{11}{557}, -\frac{129}{557}, \frac{127}{557}, \frac{363}{557}, -\frac{140}{557}, \frac{116}{557}, \frac{234}{557}, -\frac{151}{557}, \frac{105}{557})$ $+ \frac{4}{557} \sqrt{29555}e^4 \otimes e_8$	{1234569, 18, 2349, 568}
952:401	$0, 0, 0, 0, \frac{24}{829} \sqrt{201}e^{12}, \frac{120}{829} \sqrt{6}e^{13}, \frac{84}{829} \sqrt{6}e^{24}, \frac{12}{829} \sqrt{1306}e^{15},$ $\frac{12}{829} \sqrt{2}e^{16} + \frac{24}{829} \sqrt{41}e^{27}$	$(\frac{108}{829}, -\frac{156}{829}, -\frac{180}{829}, \frac{348}{829}, -\frac{48}{829}, -\frac{72}{829}, \frac{192}{829}, \frac{60}{829}, \frac{36}{829})$ $+ \frac{12}{829} \sqrt{1630}e^1 \otimes e_3 + \frac{48}{829} \sqrt{86}e^4 \otimes e_8$	{1457, 235789}
952:402	$0, 0, 0, 0, \frac{14}{185} \sqrt{35}e^{12}, \frac{49}{185} \sqrt{2}e^{13}, \frac{7}{185} \sqrt{74}e^{14}, \frac{7}{185} \sqrt{118}e^{15},$ $\frac{14}{185} \sqrt{13}e^{17} + \frac{14}{185} \sqrt{33}e^{36}$	$(-\frac{49}{185}, \frac{77}{185}, \frac{14}{185}, \frac{77}{185}, \frac{28}{185}, -\frac{7}{185}, \frac{28}{185}, -\frac{21}{185}, -\frac{21}{185})$ $+ \frac{14}{185} \sqrt{73}e^4 \otimes e_8 + \frac{7}{185} \sqrt{358}e^2 \otimes e_9$	{123678, 1278, 3479, 4679}
952:402	$0, 0, 0, 0, \frac{14}{185} \sqrt{35}e^{12}, \frac{49}{185} \sqrt{2}e^{13}, \frac{7}{185} \sqrt{74}e^{14}, \frac{7}{185} \sqrt{118}e^{15},$ $\frac{14}{185} \sqrt{13}e^{17} + \frac{14}{185} \sqrt{33}e^{36}$	$(-\frac{49}{185}, \frac{77}{185}, \frac{14}{185}, \frac{77}{185}, \frac{28}{185}, -\frac{7}{185}, \frac{28}{185}, -\frac{21}{185}, -\frac{21}{185})$ $- \frac{14}{185} \sqrt{73}e^4 \otimes e_8 + \frac{7}{185} \sqrt{358}e^2 \otimes e_9$	{123678, 1278, 3479, 4679}
952:402	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{1}{19} \sqrt{6}e^{13}, \frac{5}{19} \sqrt{3}e^{14}, \frac{1}{19} \sqrt{33}e^{15},$ $\frac{4}{19} \sqrt{3}e^{17} + \frac{3}{19}e^{36}$	$(\frac{1}{19}, -\frac{5}{19}, \frac{2}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{3}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{3}{19} \sqrt{10}e^4 \otimes e_8 + \frac{3}{19} \sqrt{13}e^1 \otimes e_2$	{1378, 1678, 234679, 2479}
952:402	$0, 0, 0, 0, \frac{6}{19}e^{12}, \frac{1}{19} \sqrt{6}e^{13}, \frac{5}{19} \sqrt{3}e^{14}, \frac{1}{19} \sqrt{33}e^{15},$ $\frac{4}{19} \sqrt{3}e^{17} + \frac{3}{19}e^{36}$	$(\frac{1}{19}, -\frac{5}{19}, \frac{2}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{3}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $- \frac{3}{19} \sqrt{10}e^4 \otimes e_8 + \frac{3}{19} \sqrt{13}e^1 \otimes e_2$	{1378, 1678, 234679, 2479}
952:402	$0, 0, 0, 0, \frac{6}{313} \sqrt{113}e^{12}, \frac{4}{313} \sqrt{1695}e^{13}, \frac{1}{313} \sqrt{57630}e^{14}, \frac{2}{313} \sqrt{15594}e^{15},$ $\frac{4}{313} \sqrt{339}e^{17} + \frac{3}{313} \sqrt{1582}e^{36}$	$(-\frac{80}{313}, \frac{49}{313}, \frac{74}{313}, \frac{228}{313}, -\frac{31}{313}, -\frac{6}{313}, \frac{148}{313}, -\frac{111}{313}, \frac{68}{313})$ $+ \frac{6}{313} \sqrt{4859}e^4 \otimes e_8$	{13456, 145, 23589, 25689}
952:402	$0, 0, 0, 0, \frac{4}{123} \sqrt{2}e^{12}, \frac{8}{123} \sqrt{37}e^{13}, \frac{4}{123} \sqrt{29}e^{14}, \frac{4}{123} \sqrt{149}e^{15},$ $\frac{4}{123} \sqrt{74}e^{17} + \frac{4}{41} \sqrt{15}e^{36}$	$(\frac{4}{123}, -\frac{28}{123}, \frac{4}{41}, \frac{20}{123}, -\frac{8}{41}, \frac{16}{123}, \frac{8}{41}, -\frac{20}{123}, \frac{28}{123})$ $+ \frac{4}{123} \sqrt{161}e^1 \otimes e_2 + \frac{8}{123} \sqrt{70}e^3 \otimes e_8$	{134579, 2578}
952:402	$0, 0, 0, 0, \frac{22}{897} \sqrt{310}e^{12}, \frac{11}{897} \sqrt{110}e^{13}, \frac{11}{897} \sqrt{570}e^{14}, \frac{11}{897} \sqrt{730}e^{15},$ $\frac{22}{897} \sqrt{82}e^{17} + \frac{22}{897} \sqrt{131}e^{36}$	$(\frac{55}{897}, \frac{55}{299}, -\frac{22}{299}, -\frac{187}{897}, \frac{220}{897}, -\frac{11}{897}, -\frac{44}{299}, \frac{275}{897}, -\frac{77}{897})$ $+ \frac{11}{299} \sqrt{170}e^2 \otimes e_9 + \frac{22}{897} \sqrt{422}e^1 \otimes e_4$	{1359, 1569, 234568, 2458}
952:402	$0, 0, 0, 0, \frac{22}{897} \sqrt{310}e^{12}, \frac{11}{897} \sqrt{110}e^{13}, \frac{11}{897} \sqrt{570}e^{14}, \frac{11}{897} \sqrt{730}e^{15},$ $\frac{22}{897} \sqrt{82}e^{17} + \frac{22}{897} \sqrt{131}e^{36}$	$(\frac{55}{897}, \frac{55}{299}, -\frac{22}{299}, -\frac{187}{897}, \frac{220}{897}, -\frac{11}{897}, -\frac{44}{299}, \frac{275}{897}, -\frac{77}{897})$ $+ \frac{11}{299} \sqrt{170}e^2 \otimes e_9 - \frac{22}{897} \sqrt{422}e^1 \otimes e_4$	{1359, 1569, 234568, 2458}
952:402	$0, 0, 0, 0, \frac{6}{31} \sqrt{10}e^{12}, \frac{4}{31} \sqrt{15}e^{13}, \frac{2}{31} \sqrt{129}e^{14}, \frac{2}{31} \sqrt{15}e^{15},$ $\frac{2}{31} \sqrt{138}e^{17} + \frac{6}{31} \sqrt{3}e^{36}$	$(\frac{10}{31}, -\frac{14}{31}, \frac{2}{31}, -\frac{6}{31}, -\frac{4}{31}, \frac{12}{31}, \frac{4}{31}, \frac{6}{31}, \frac{14}{31})$ $+ \frac{6}{31} \sqrt{35}e^1 \otimes e_2$	{1378, 1678, 234679, 2479}
952:402	$0, 0, 0, 0, \frac{2}{641} \sqrt{60990}e^{12}, \frac{1}{641} \sqrt{79230}e^{13}, \frac{1}{641} \sqrt{26790}e^{14},$ $\frac{15}{641} \sqrt{190}e^{15}, \frac{4}{641} \sqrt{6555}e^{17} + \frac{6}{641} \sqrt{5795}e^{36}$	$(-\frac{139}{641}, \frac{427}{641}, -\frac{2}{641}, \frac{135}{641}, \frac{288}{641}, -\frac{141}{641}, -\frac{4}{641}, \frac{149}{641}, -\frac{143}{641})$ $+ \frac{3}{641} \sqrt{67070}e^2 \otimes e_9$	{1234678, 12478, 379, 679}
952:402	$0, 0, 0, 0, \frac{22}{653} \sqrt{2}e^{12}, \frac{22}{653} \sqrt{118}e^{13}, \frac{22}{653} \sqrt{21}e^{14}, \frac{66}{653} \sqrt{13}e^{15},$ $\frac{22}{653} \sqrt{58}e^{17} + \frac{22}{653} \sqrt{237}e^{36}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $- \frac{22}{653} \sqrt{221}e^4 \otimes e_9 + \frac{22}{653} \sqrt{357}e^3 \otimes e_8$	{123579, 16789, 23467, 4578}
952:402	$0, 0, 0, 0, \frac{22}{653} \sqrt{2}e^{12}, \frac{22}{653} \sqrt{118}e^{13}, \frac{22}{653} \sqrt{21}e^{14}, \frac{66}{653} \sqrt{13}e^{15},$ $\frac{22}{653} \sqrt{58}e^{17} + \frac{22}{653} \sqrt{237}e^{36}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+ \frac{22}{653} \sqrt{221}e^4 \otimes e_9 + \frac{22}{653} \sqrt{357}e^3 \otimes e_8$	{123579, 16789, 23467, 4578}
952:402	$0, 0, 0, 0, \frac{4}{849} \sqrt{24070}e^{12}, \frac{4}{849} \sqrt{12035}e^{13}, \frac{4}{849} \sqrt{16185}e^{14},$ $\frac{4}{849} \sqrt{24070}e^{15}, \frac{4}{849} \sqrt{2407}e^{17} + \frac{4}{849} \sqrt{3071}e^{36}$	$(\frac{290}{849}, -\frac{50}{283}, -\frac{14}{283}, -\frac{374}{849}, \frac{140}{849}, \frac{248}{849}, -\frac{28}{283}, \frac{430}{849}, \frac{206}{849})$ $+ \frac{4}{849} \sqrt{58847}e^1 \otimes e_4$	{12389, 12689, 1359, 1569, 234568, 2458, 346, 4}
952:402	$0, 0, 0, 0, \frac{4}{849} \sqrt{24070}e^{12}, \frac{4}{849} \sqrt{12035}e^{13}, \frac{4}{849} \sqrt{16185}e^{14},$ $\frac{4}{849} \sqrt{24070}e^{15}, \frac{4}{849} \sqrt{2407}e^{17} + \frac{4}{849} \sqrt{3071}e^{36}$	$(\frac{290}{849}, -\frac{50}{283}, -\frac{14}{283}, -\frac{374}{849}, \frac{140}{849}, \frac{248}{849}, -\frac{28}{283}, \frac{430}{849}, \frac{206}{849})$ $- \frac{4}{849} \sqrt{58847}e^1 \otimes e_4$	{12389, 12689, 1359, 1569, 234568, 2458, 346, 4}
952:402	$0, 0, 0, 0, \frac{6}{1231} \sqrt{5959}e^{12}, \frac{6}{1231} \sqrt{13511}e^{13}, \frac{3}{1231} \sqrt{41654}e^{14},$ $\frac{3}{1231} \sqrt{65962}e^{15}, \frac{3}{1231} \sqrt{65018}e^{17} + \frac{18}{1231} \sqrt{1947}e^{36}$	$(-\frac{155}{1231}, -\frac{42}{1231}, \frac{179}{1231}, \frac{513}{1231}, -\frac{197}{1231}, \frac{24}{1231}, \frac{358}{1231}, -\frac{352}{1231}, \frac{203}{1231})$ $+ \frac{9}{1231} \sqrt{14042}e^3 \otimes e_8$	{1246789, 134579, 2578, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:402	$0, 0, 0, 0, \frac{34}{1237}\sqrt{139}e^{12}, \frac{170}{1237}\sqrt{5}e^{13}, \frac{17}{1237}\sqrt{526}e^{14}, \frac{17}{1237}\sqrt{778}e^{15}, \frac{17}{1237}\sqrt{610}e^{17} + \frac{34}{1237}\sqrt{257}e^{36}$	$(-\frac{221}{1237}, \frac{238}{1237}, \frac{85}{1237}, \frac{391}{1237}, \frac{17}{1237}, -\frac{136}{1237}, \frac{170}{1237}, -\frac{204}{1237}, -\frac{51}{1237}) + \frac{17}{1237}\sqrt{1442}e^3 \otimes e_8 + \frac{34}{1237}\sqrt{194}e^2 \otimes e_9$	{134579, 2578}
952:403	$0, 0, 0, 0, \frac{16}{3867}\sqrt{20706}e^{12}, \frac{128}{3867}\sqrt{102}e^{13}, \frac{16}{3867}\sqrt{969}e^{14}, \frac{16}{3867}\sqrt{21913}e^{25}, \frac{16}{3867}\sqrt{11118}e^{17} + \frac{272}{1289}\sqrt{7}e^{36}$	$(-\frac{256}{1289}, \frac{1360}{3867}, -\frac{8}{1289}, \frac{240}{1289}, \frac{592}{3867}, -\frac{264}{1289}, -\frac{16}{1289}, \frac{1952}{3867}, -\frac{272}{1289}) + \frac{32}{1289}\sqrt{1513}e^2 \otimes e_9$	{1234678, 12478, 379, 679}
952:403	$0, 0, 0, 0, \frac{88}{1491}\sqrt{6}e^{12}, \frac{16}{1491}\sqrt{201}e^{13}, \frac{8}{497}\sqrt{39}e^{14}, \frac{8}{1491}\sqrt{1491}e^{25}, \frac{8}{497}\sqrt{26}e^{17} + \frac{8}{1491}\sqrt{1569}e^{36}$	$(-\frac{52}{497}, \frac{20}{497}, \frac{20}{497}, \frac{92}{497}, -\frac{32}{497}, -\frac{32}{497}, \frac{40}{497}, -\frac{12}{497}, -\frac{12}{497}) + \frac{16}{1491}\sqrt{519}e^3 \otimes e_8 + \frac{64}{1491}\sqrt{30}e^2 \otimes e_9$	{1456789, 23567}
952:403	$0, 0, 0, 0, \frac{16}{131}\sqrt{5}e^{12}, \frac{8}{131}\sqrt{14}e^{13}, \frac{8}{131}\sqrt{19}e^{14}, \frac{8}{393}\sqrt{393}e^{25}, \frac{16}{393}\sqrt{42}e^{17} + \frac{8}{393}\sqrt{195}e^{36}$	$(-\frac{28}{131}, \frac{20}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{8}{131}, -\frac{20}{131}, \frac{16}{131}, \frac{12}{131}, -\frac{12}{131}) + \frac{16}{131}\sqrt{17}e^2 \otimes e_9 - \frac{8}{393}\sqrt{426}e^4 \otimes e_8$	{123678, 1278, 3479, 4679}
952:403	$0, 0, 0, 0, \frac{16}{131}\sqrt{5}e^{12}, \frac{8}{131}\sqrt{14}e^{13}, \frac{8}{131}\sqrt{19}e^{14}, \frac{8}{393}\sqrt{393}e^{25}, \frac{16}{393}\sqrt{42}e^{17} + \frac{8}{393}\sqrt{195}e^{36}$	$(-\frac{28}{131}, \frac{20}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{8}{131}, -\frac{20}{131}, \frac{16}{131}, \frac{12}{131}, -\frac{12}{131}) + \frac{16}{131}\sqrt{17}e^2 \otimes e_9 + \frac{8}{393}\sqrt{426}e^4 \otimes e_8$	{123678, 1278, 3479, 4679}
952:403	$0, 0, 0, 0, \frac{24}{1283}\sqrt{370}e^{12}, \frac{24}{1283}\sqrt{30}e^{13}, \frac{24}{1283}\sqrt{85}e^{14}, \frac{120}{1283}\sqrt{11}e^{25}, \frac{48}{1283}\sqrt{57}e^{17} + \frac{24}{1283}\sqrt{199}e^{36}$	$(\frac{60}{1283}, \frac{180}{1283}, -\frac{84}{1283}, \frac{228}{1283}, \frac{240}{1283}, -\frac{24}{1283}, -\frac{168}{1283}, \frac{420}{1283}, -\frac{108}{1283}) + \frac{24}{1283}\sqrt{458}e^1 \otimes e_4 + \frac{48}{1283}\sqrt{170}e^2 \otimes e_9$	{13589, 15689, 23456, 245}
952:403	$0, 0, 0, 0, \frac{24}{1283}\sqrt{370}e^{12}, \frac{24}{1283}\sqrt{30}e^{13}, \frac{24}{1283}\sqrt{85}e^{14}, \frac{120}{1283}\sqrt{11}e^{25}, \frac{48}{1283}\sqrt{57}e^{17} + \frac{24}{1283}\sqrt{199}e^{36}$	$(\frac{60}{1283}, \frac{180}{1283}, -\frac{84}{1283}, \frac{228}{1283}, \frac{240}{1283}, -\frac{24}{1283}, -\frac{168}{1283}, \frac{420}{1283}, -\frac{108}{1283}) - \frac{24}{1283}\sqrt{458}e^1 \otimes e_4 + \frac{48}{1283}\sqrt{170}e^2 \otimes e_9$	{13589, 15689, 23456, 245}
952:403	$0, 0, 0, 0, \frac{8}{3723}\sqrt{3894}e^{12}, \frac{16}{3723}\sqrt{24249}e^{13}, \frac{8}{3723}\sqrt{22479}e^{14}, \frac{8}{3723}\sqrt{73219}e^{25}, \frac{8}{3723}\sqrt{52746}e^{17} + \frac{24}{1241}\sqrt{1121}e^{36}$	$(\frac{44}{1241}, -\frac{740}{3723}, \frac{180}{1241}, \frac{316}{1241}, -\frac{608}{3723}, \frac{224}{1241}, \frac{360}{1241}, -\frac{1348}{3723}, \frac{404}{1241}) + \frac{16}{3723}\sqrt{46551}e^3 \otimes e_8$	{1246789, 1456789, 23567, 367}
952:404	$0, 0, 0, 0, \frac{16}{3563}\sqrt{31310}e^{12}, \frac{32}{3563}\sqrt{1705}e^{13}, \frac{80}{3563}\sqrt{155}e^{24}, \frac{16}{3563}\sqrt{8835}e^{15}, \frac{16}{3563}\sqrt{27218}e^{27} + \frac{144}{3563}\sqrt{31}e^{36}$	$(-\frac{440}{3563}, \frac{1800}{3563}, \frac{936}{3563}, \frac{2168}{3563}, \frac{1360}{3563}, \frac{496}{3563}, -\frac{368}{3563}, \frac{920}{3563}, \frac{1432}{3563}) + \frac{64}{3563}\sqrt{5673}e^2 \otimes e_4$	{123689, 1289, 34, 46}
952:404	$0, 0, 0, 0, \frac{16}{137}\sqrt{10}e^{12}, \frac{32}{137}e^{13}, \frac{112}{137}e^{24}, \frac{16}{137}\sqrt{47}e^{15}, \frac{16}{137}\sqrt{10}e^{27} + \frac{16}{137}\sqrt{5}e^{36}$	$(-\frac{8}{137}, -\frac{24}{137}, \frac{24}{137}, \frac{88}{137}, -\frac{32}{137}, \frac{16}{137}, \frac{64}{137}, -\frac{40}{137}, \frac{40}{137}) + \frac{64}{137}\sqrt{7}e^4 \otimes e_8$	{1368, 18, 2349, 2469}
952:404	$0, 0, 0, 0, \frac{64}{3807}\sqrt{346}e^{12}, \frac{128}{3807}\sqrt{123}e^{13}, \frac{64}{3807}\sqrt{55}e^{24}, \frac{64}{3807}\sqrt{665}e^{15}, \frac{64}{3807}\sqrt{246}e^{27} + \frac{64}{1269}\sqrt{83}e^{36}$	$(-\frac{992}{3807}, \frac{1184}{3807}, \frac{416}{1269}, -\frac{32}{141}, \frac{64}{1269}, \frac{256}{3807}, \frac{320}{3807}, -\frac{800}{3807}, \frac{32}{81}) + \frac{128}{3807}\sqrt{330}e^2 \otimes e_4 + \frac{128}{3807}\sqrt{494}e^3 \otimes e_8$	{134579, 2578}
952:404	$0, 0, 0, 0, \frac{16}{3771}\sqrt{3266}e^{12}, \frac{32}{3771}\sqrt{5727}e^{13}, \frac{80}{3771}\sqrt{253}e^{24}, \frac{16}{3771}\sqrt{851}e^{15}, \frac{16}{419}\sqrt{46}e^{27} + \frac{368}{3771}\sqrt{57}e^{36}$	$(-\frac{1096}{3771}, \frac{712}{3771}, \frac{488}{1257}, \frac{136}{1257}, -\frac{128}{1257}, \frac{368}{3771}, \frac{1120}{3771}, -\frac{1480}{3771}, \frac{1832}{3771}) + \frac{64}{3771}\sqrt{4439}e^3 \otimes e_8$	{123579, 1689, 2346, 4578}
952:405	$0, 0, 0, 0, \frac{5}{289}\sqrt{286}e^{12}, \frac{44}{289}\sqrt{13}e^{13}, \frac{13}{289}\sqrt{66}e^{24}, \frac{4}{289}\sqrt{2431}e^{25}, \frac{4}{289}\sqrt{1430}e^{27} + \frac{1}{289}\sqrt{35178}e^{36}$	$(-\frac{69}{289}, \frac{2}{289}, \frac{78}{289}, \frac{83}{289}, -\frac{67}{289}, \frac{9}{289}, \frac{5}{17}, -\frac{65}{289}, \frac{87}{289}) + \frac{7}{289}\sqrt{1430}e^3 \otimes e_8$	{1246789, 145689, 2356, 367}
952:405	$0, 0, 0, 0, \frac{9}{383}\sqrt{174}e^{12}, \frac{18}{383}\sqrt{26}e^{13}, \frac{9}{383}\sqrt{146}e^{24}, \frac{18}{383}\sqrt{86}e^{25}, \frac{18}{383}\sqrt{30}e^{27} + \frac{9}{383}\sqrt{202}e^{36}$	$(-\frac{99}{383}, \frac{54}{383}, \frac{90}{383}, -\frac{27}{383}, -\frac{45}{383}, -\frac{9}{383}, \frac{27}{383}, \frac{9}{383}, \frac{81}{383}) + \frac{18}{383}\sqrt{70}e^2 \otimes e_4 + \frac{9}{383}\sqrt{406}e^3 \otimes e_8$	{145689, 2356}
952:405	$0, 0, 0, 0, \frac{17}{349}\sqrt{290}e^{12}, \frac{34}{349}\sqrt{15}e^{13}, \frac{85}{349}\sqrt{6}e^{24}, \frac{51}{349}\sqrt{30}e^{25}, \frac{17}{349}\sqrt{38}e^{27} + \frac{34}{349}\sqrt{6}e^{36}$	$(-\frac{60}{349}, \frac{125}{349}, \frac{73}{349}, -\frac{164}{349}, \frac{65}{349}, \frac{13}{349}, -\frac{39}{349}, \frac{190}{349}, \frac{86}{349}) + \frac{238}{349}\sqrt{3}e^2 \otimes e_4$	{134568, 1458, 2359, 2569}
952:406	$0, 0, 0, 0, \frac{2}{59}\sqrt{106}e^{12}, \frac{4}{59}\sqrt{33}e^{13}, \frac{2}{59}\sqrt{94}e^{34}, \frac{2}{59}\sqrt{118}e^{15}, \frac{12}{59}\sqrt{2}e^{16} + \frac{2}{59}\sqrt{106}e^{37}$	$(\frac{2}{59}, \frac{2}{59}, -\frac{10}{59}, \frac{14}{59}, \frac{4}{59}, -\frac{8}{59}, \frac{4}{59}, \frac{6}{59}, -\frac{6}{59}) - \frac{2}{59}\sqrt{122}e^4 \otimes e_8 + \frac{2}{59}\sqrt{86}e^2 \otimes e_9$	{128, 134569, 2568, 349}
952:406	$0, 0, 0, 0, \frac{2}{59}\sqrt{106}e^{12}, \frac{4}{59}\sqrt{33}e^{13}, \frac{2}{59}\sqrt{94}e^{34}, \frac{2}{59}\sqrt{118}e^{15}, \frac{12}{59}\sqrt{2}e^{16} + \frac{2}{59}\sqrt{106}e^{37}$	$(\frac{2}{59}, \frac{2}{59}, -\frac{10}{59}, \frac{14}{59}, \frac{4}{59}, -\frac{8}{59}, \frac{4}{59}, \frac{6}{59}, -\frac{6}{59}) + \frac{2}{59}\sqrt{122}e^4 \otimes e_8 + \frac{2}{59}\sqrt{86}e^2 \otimes e_9$	{128, 134569, 2568, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:406	$0, 0, 0, 0, \frac{2}{41}\sqrt{70}e^{12}, \frac{14}{41}\sqrt{2}e^{13}, \frac{1}{41}\sqrt{42}e^{34}, \frac{1}{41}\sqrt{70}e^{15},$ $\frac{1}{41}\sqrt{546}e^{16} + \frac{2}{41}\sqrt{35}e^{37}$	$(\frac{5}{41}, -\frac{9}{41}, -\frac{7}{41}, \frac{17}{41}, -\frac{4}{41}, -\frac{2}{41}, \frac{10}{41}, \frac{1}{41}, \frac{3}{41})$ $-\frac{2}{41}\sqrt{105}e^4 \otimes e_9 + \frac{3}{41}\sqrt{70}e^1 \otimes e_2$	{1379, 1467, 236789, 2478}
952:406	$0, 0, 0, 0, \frac{2}{41}\sqrt{70}e^{12}, \frac{14}{41}\sqrt{2}e^{13}, \frac{1}{41}\sqrt{42}e^{34}, \frac{1}{41}\sqrt{70}e^{15},$ $\frac{1}{41}\sqrt{546}e^{16} + \frac{2}{41}\sqrt{35}e^{37}$	$(\frac{5}{41}, -\frac{9}{41}, -\frac{7}{41}, \frac{17}{41}, -\frac{4}{41}, -\frac{2}{41}, \frac{10}{41}, \frac{1}{41}, \frac{3}{41})$ $+\frac{2}{41}\sqrt{105}e^4 \otimes e_9 + \frac{3}{41}\sqrt{70}e^1 \otimes e_2$	{1379, 1467, 236789, 2478}
952:406	$0, 0, 0, 0, \frac{4}{589}\sqrt{2490}e^{12}, \frac{4}{589}\sqrt{15023}e^{13}, \frac{12}{589}\sqrt{249}e^{34}, \frac{4}{589}\sqrt{2490}e^{15},$ $\frac{12}{589}\sqrt{83}e^{16} + \frac{4}{589}\sqrt{11039}e^{37}$	$(-\frac{30}{589}, \frac{130}{589}, \frac{302}{589}, -\frac{362}{589}, \frac{100}{589}, \frac{272}{589}, -\frac{60}{589}, \frac{70}{589}, \frac{242}{589})$ $-\frac{4}{589}\sqrt{40587}e^3 \otimes e_4$	{123589, 124568, 139, 146, 23689, 248, 3569, 45}
952:406	$0, 0, 0, 0, \frac{4}{589}\sqrt{2490}e^{12}, \frac{4}{589}\sqrt{15023}e^{13}, \frac{12}{589}\sqrt{249}e^{34}, \frac{4}{589}\sqrt{2490}e^{15},$ $\frac{12}{589}\sqrt{83}e^{16} + \frac{4}{589}\sqrt{11039}e^{37}$	$(-\frac{30}{589}, \frac{130}{589}, \frac{302}{589}, -\frac{362}{589}, \frac{100}{589}, \frac{272}{589}, -\frac{60}{589}, \frac{70}{589}, \frac{242}{589})$ $+\frac{4}{589}\sqrt{40587}e^3 \otimes e_4$	{123589, 124568, 139, 146, 23689, 248, 3569, 45}
952:406	$0, 0, 0, 0, \frac{2}{13}\sqrt{21}e^{12}, \frac{2}{13}\sqrt{35}e^{13}, \frac{1}{13}\sqrt{42}e^{34}, \frac{2}{13}\sqrt{7}e^{15},$ $\frac{3}{13}\sqrt{14}e^{16} + \frac{2}{13}\sqrt{21}e^{37}$	$(\frac{2}{13}, -\frac{5}{13}, 0, \frac{4}{13}, -\frac{3}{13}, \frac{2}{13}, \frac{4}{13}, -\frac{1}{13}, \frac{4}{13})$ $+\frac{2}{13}\sqrt{42}e^1 \otimes e_2$	{13479, 167, 2346789, 278}
952:406	$0, 0, 0, 0, \frac{2}{323}\sqrt{18407}e^{12}, \frac{2}{323}\sqrt{15145}e^{13}, \frac{3}{323}\sqrt{3262}e^{34}, \frac{2}{323}\sqrt{8155}e^{15},$ $\frac{1}{323}\sqrt{9786}e^{16} + \frac{2}{323}\sqrt{18407}e^{37}$	$(-\frac{18}{323}, \frac{165}{323}, -\frac{32}{323}, -\frac{4}{323}, \frac{147}{323}, -\frac{50}{323}, -\frac{36}{323}, \frac{129}{323}, -\frac{4}{19})$ $+\frac{4}{323}\sqrt{7689}e^2 \otimes e_9$	{128, 134569, 2568, 349}
952:406	$0, 0, 0, 0, \frac{2}{317}\sqrt{9179}e^{12}, \frac{1}{317}\sqrt{56170}e^{13}, \frac{2}{317}\sqrt{11919}e^{34},$ $\frac{1}{317}\sqrt{61102}e^{15}, \frac{7}{317}\sqrt{822}e^{16} + \frac{2}{317}\sqrt{9179}e^{37}$	$(\frac{45}{317}, -\frac{84}{317}, -\frac{53}{317}, \frac{143}{317}, -\frac{39}{317}, -\frac{8}{317}, \frac{90}{317}, \frac{6}{317}, \frac{37}{317})$ $+\frac{1}{317}\sqrt{73158}e^4 \otimes e_8$	{128, 134569, 2568, 349}
952:406	$0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{3}{7}\sqrt{2}e^{13}, \frac{3}{7}\sqrt{2}e^{34}, \frac{2}{7}\sqrt{6}e^{15},$ $\frac{2}{7}\sqrt{3}e^{16} + \frac{2}{7}\sqrt{3}e^{37}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{2}{7}, 0, \frac{1}{7})$ $+\frac{1}{7}\sqrt{30}e^4 \otimes e_8 + \frac{1}{7}\sqrt{6}e^1 \otimes e_2$	{134569, 2568}
952:406	$0, 0, 0, 0, \frac{40}{329}\sqrt{15}e^{12}, \frac{10}{329}\sqrt{235}e^{13}, \frac{5}{329}\sqrt{1410}e^{34}, \frac{5}{329}\sqrt{1870}e^{15},$ $\frac{10}{329}\sqrt{345}e^{16} + \frac{5}{329}\sqrt{1870}e^{37}$	$(\frac{5}{329}, -\frac{40}{329}, \frac{95}{329}, -\frac{85}{329}, -\frac{5}{329}, \frac{100}{329}, \frac{329}{329}, -\frac{30}{329}, \frac{15}{47})$ $+\frac{5}{329}\sqrt{2730}e^3 \otimes e_8$	{128, 134569, 2568, 349}
952:406	$0, 0, 0, 0, \frac{5}{569}\sqrt{834}e^{12}, \frac{5}{569}\sqrt{766}e^{13}, \frac{10}{569}\sqrt{186}e^{34}, \frac{5}{569}\sqrt{958}e^{15},$ $\frac{5}{569}\sqrt{642}e^{16} + \frac{10}{569}\sqrt{307}e^{37}$	$(-\frac{25}{569}, \frac{65}{569}, \frac{65}{569}, -\frac{115}{569}, \frac{40}{569}, \frac{40}{569}, -\frac{50}{569}, \frac{15}{569}, \frac{15}{569})$ $+\frac{45}{569}\sqrt{10}e^2 \otimes e_9 - \frac{5}{569}\sqrt{1182}e^3 \otimes e_8$	{128, 134569, 2568, 349}
952:406	$0, 0, 0, 0, \frac{5}{569}\sqrt{834}e^{12}, \frac{5}{569}\sqrt{766}e^{13}, \frac{10}{569}\sqrt{186}e^{34}, \frac{5}{569}\sqrt{958}e^{15},$ $\frac{5}{569}\sqrt{642}e^{16} + \frac{10}{569}\sqrt{307}e^{37}$	$(-\frac{25}{569}, \frac{65}{569}, \frac{65}{569}, -\frac{115}{569}, \frac{40}{569}, \frac{40}{569}, -\frac{50}{569}, \frac{15}{569}, \frac{15}{569})$ $+\frac{45}{569}\sqrt{10}e^2 \otimes e_9 + \frac{5}{569}\sqrt{1182}e^3 \otimes e_8$	{128, 134569, 2568, 349}
952:407	$0, 0, 0, 0, \frac{4}{27}\sqrt{7}e^{12}, \frac{2}{27}\sqrt{10}e^{13}, \frac{4}{27}\sqrt{2}e^{34}, \frac{2}{27}\sqrt{26}e^{25},$ $\frac{4}{27}e^{16} + \frac{2}{27}\sqrt{38}e^{37}$	$(-\frac{2}{27}, \frac{2}{9}, \frac{2}{27}, -\frac{2}{9}, \frac{4}{27}, 0, -\frac{4}{27}, \frac{10}{27}, -\frac{2}{27})$ $+\frac{16}{27}e^2 \otimes e_9 + \frac{2}{27}\sqrt{30}e^3 \otimes e_4$	{123678, 145789, 2357, 4679}
952:407	$0, 0, 0, 0, \frac{4}{27}\sqrt{7}e^{12}, \frac{2}{27}\sqrt{10}e^{13}, \frac{4}{27}\sqrt{2}e^{34}, \frac{2}{27}\sqrt{26}e^{25},$ $\frac{4}{27}e^{16} + \frac{2}{27}\sqrt{38}e^{37}$	$(-\frac{2}{27}, \frac{2}{9}, \frac{2}{27}, -\frac{2}{9}, \frac{4}{27}, 0, -\frac{4}{27}, \frac{10}{27}, -\frac{2}{27})$ $+\frac{16}{27}e^2 \otimes e_9 - \frac{2}{27}\sqrt{30}e^3 \otimes e_4$	{123678, 145789, 2357, 4679}
952:407	$0, 0, 0, 0, \frac{176}{387}e^{12}, \frac{8}{129}\sqrt{66}e^{13}, \frac{56}{387}\sqrt{33}e^{34}, \frac{8}{387}\sqrt{1419}e^{25},$ $\frac{8}{387}\sqrt{55}e^{16} + \frac{56}{387}\sqrt{37}e^{37}$	$(\frac{88}{387}, -\frac{100}{387}, -\frac{64}{387}, \frac{80}{129}, -\frac{4}{129}, \frac{8}{129}, \frac{176}{387}, -\frac{112}{387}, \frac{112}{387})$ $+\frac{8}{387}\sqrt{3454}e^4 \otimes e_8$	{128, 158, 23459, 349}
952:407	$0, 0, 0, 0, \frac{4}{1545}\sqrt{1038}e^{12}, \frac{4}{1545}\sqrt{402}e^{13}, \frac{4}{1545}\sqrt{957}e^{34}, \frac{4}{1545}\sqrt{1545}e^{25},$ $\frac{4}{1545}\sqrt{3}e^{16} + \frac{16}{1545}\sqrt{105}e^{37}$	$(-\frac{2}{103}, \frac{14}{515}, \frac{26}{515}, -\frac{46}{515}, \frac{4}{515}, \frac{16}{515}, -\frac{4}{103}, \frac{18}{515}, \frac{6}{515})$ $+\frac{4}{515}\sqrt{214}e^3 \otimes e_8 + \frac{76}{1545}\sqrt{6}e^2 \otimes e_9$	{128, 349}
952:407	$0, 0, 0, 0, \frac{2}{99}\sqrt{897}e^{12}, \frac{10}{99}\sqrt{23}e^{13}, \frac{2}{99}\sqrt{322}e^{34}, \frac{2}{99}\sqrt{759}e^{25},$ $\frac{2}{99}\sqrt{161}e^{16} + \frac{2}{99}\sqrt{897}e^{37}$	$(-\frac{4}{99}, \frac{3}{11}, -\frac{1}{9}, \frac{1}{33}, \frac{23}{99}, -\frac{5}{33}, -\frac{8}{99}, \frac{50}{99}, -\frac{19}{99})$ $+\frac{2}{99}\sqrt{1886}e^2 \otimes e_9$	{123678, 145789, 2357, 4679}
952:407	$0, 0, 0, 0, \frac{20}{177}\sqrt{6}e^{12}, \frac{8}{177}\sqrt{30}e^{13}, \frac{4}{177}\sqrt{123}e^{34}, \frac{4}{177}\sqrt{177}e^{25},$ $\frac{4}{177}\sqrt{15}e^{16} + \frac{20}{177}\sqrt{6}e^{37}$	$(\frac{2}{59}, \frac{2}{59}, -\frac{10}{59}, \frac{14}{59}, \frac{4}{59}, -\frac{8}{59}, \frac{4}{59}, \frac{6}{59}, -\frac{6}{59})$ $+\frac{4}{177}\sqrt{186}e^4 \otimes e_8 + \frac{4}{177}\sqrt{282}e^2 \otimes e_9$	{123678, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:407	$0, 0, 0, 0, \frac{32}{1193}\sqrt{65}e^{12}, \frac{80}{3579}\sqrt{273}e^{13}, \frac{312}{1193}\sqrt{5}e^{34},$ $\frac{8}{3579}\sqrt{77545}e^{25}, \frac{8}{1193}\sqrt{1495}e^{16} + \frac{8}{3579}\sqrt{72930}e^{37}$	$(\frac{96}{1193}, -\frac{692}{3579}, \frac{328}{1193}, -\frac{136}{1193}, -\frac{404}{3579}, \frac{424}{1193}, \frac{192}{1193}, -\frac{1096}{3579}, \frac{520}{1193})$ $+ \frac{8}{1193}\sqrt{21190}e^3 \otimes e_8$	{1246789, 1456789, 23567, 367}
952:408	$0, 0, 0, 0, \frac{19}{481}\sqrt{6}e^{12}, -\frac{19}{481}\sqrt{271}e^{13}, \frac{19}{481}\sqrt{131}e^{14}, \frac{19}{481}\sqrt{274}e^{15},$ $\frac{19}{481}\sqrt{341}e^{36} + \frac{19}{481}\sqrt{61}e^{47}$	$(-\frac{131}{481}, \frac{76}{481}, \frac{175}{481}, \frac{175}{481}, -\frac{55}{481}, \frac{44}{481}, \frac{44}{481}, -\frac{186}{481}, \frac{219}{481})$ $+ \frac{38}{481}\sqrt{201}e^3 \otimes e_8$	{1246789, 12689, 134579, 1359, 2458, 2578, 346, 367, 1246789, 12689, 134579, 1359, 2458, 2578, 346, 367}
952:408	$0, 0, 0, 0, \frac{19}{481}\sqrt{6}e^{12}, \frac{19}{481}\sqrt{271}e^{13}, \frac{19}{481}\sqrt{131}e^{14}, \frac{19}{481}\sqrt{274}e^{15},$ $\frac{19}{481}\sqrt{341}e^{36} + \frac{19}{481}\sqrt{61}e^{47}$	$(-\frac{131}{481}, \frac{76}{481}, \frac{175}{481}, \frac{175}{481}, -\frac{55}{481}, \frac{44}{481}, \frac{44}{481}, -\frac{186}{481}, \frac{219}{481})$ $+ \frac{38}{481}\sqrt{201}e^3 \otimes e_8$	{1246789, 12689, 134579, 1359, 2458, 2578, 346, 367, 1246789, 12689, 134579, 1359, 2458, 2578, 346, 367}
952:408	$0, 0, 0, 0, \frac{2}{31}\sqrt{141}e^{12}, -\frac{1}{62}\sqrt{470}e^{13}, \frac{1}{62}\sqrt{470}e^{14}, \frac{1}{62}\sqrt{658}e^{15},$ $\frac{1}{62}\sqrt{1457}e^{36} + \frac{1}{62}\sqrt{1457}e^{47}$	$(-\frac{5}{31}, \frac{19}{31}, \frac{1}{124}, \frac{1}{124}, \frac{14}{31}, -\frac{19}{124}, -\frac{19}{124}, \frac{9}{31}, -\frac{9}{62})$ $+ \frac{1}{62}\sqrt{4794}e^2 \otimes e_9$	{1234678, 12368, 128, 349, 379, 679, 1234678, 12368, 128, 349, 379, 679}
952:408	$0, 0, 0, 0, \frac{2}{31}\sqrt{141}e^{12}, \frac{1}{62}\sqrt{470}e^{13}, \frac{1}{62}\sqrt{470}e^{14}, \frac{1}{62}\sqrt{658}e^{15},$ $\frac{1}{62}\sqrt{1457}e^{36} + \frac{1}{62}\sqrt{1457}e^{47}$	$(-\frac{5}{31}, \frac{19}{31}, \frac{1}{124}, \frac{1}{124}, \frac{14}{31}, -\frac{19}{124}, -\frac{19}{124}, \frac{9}{31}, -\frac{9}{62})$ $+ \frac{1}{62}\sqrt{4794}e^2 \otimes e_9$	{1234678, 12368, 128, 349, 379, 679, 1234678, 12368, 128, 349, 379, 679}
952:408	$0, 0, 0, 0, \frac{1}{11}\sqrt{22}e^{12}, -\frac{1}{11}\sqrt{55}e^{13}, \frac{1}{11}\sqrt{55}e^{14}, \frac{2}{11}\sqrt{11}e^{15},$ $\frac{1}{11}\sqrt{11}e^{36} + \frac{1}{11}\sqrt{11}e^{47}$	$(\frac{5}{11}, -\frac{6}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, \frac{4}{11}, \frac{4}{11}, \frac{3}{11})$ $+ \frac{3}{11}\sqrt{22}e^1 \otimes e_2$	{13489, 13789, 16789, 2, 23467, 236, 13489, 13789, 16789, 2, 23467, 236}
952:408	$0, 0, 0, 0, \frac{1}{11}\sqrt{22}e^{12}, \frac{1}{11}\sqrt{55}e^{13}, \frac{1}{11}\sqrt{55}e^{14}, \frac{2}{11}\sqrt{11}e^{15},$ $\frac{1}{11}\sqrt{11}e^{36} + \frac{1}{11}\sqrt{11}e^{47}$	$(\frac{5}{11}, -\frac{6}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, \frac{4}{11}, \frac{4}{11}, \frac{3}{11})$ $+ \frac{3}{11}\sqrt{22}e^1 \otimes e_2$	{13489, 13789, 16789, 2, 23467, 236, 13489, 13789, 16789, 2, 23467, 236}
952:410	$0, 0, 0, 0, \frac{16}{1203}\sqrt{345}e^{12}, -\frac{56}{401}\sqrt{23}e^{13}, \frac{16}{1203}\sqrt{345}e^{14},$ $\frac{8}{1203}\sqrt{9223}e^{25}, \frac{8}{1203}\sqrt{9798}e^{36} + \frac{40}{1203}\sqrt{69}e^{47}$	$(-\frac{40}{401}, -\frac{140}{1203}, \frac{112}{401}, \frac{112}{401}, -\frac{260}{1203}, \frac{72}{401}, \frac{72}{401}, -\frac{400}{1203}, \frac{184}{401})$ $+ \frac{8}{1203}\sqrt{23046}e^3 \otimes e_8$	{1234579, 12359, 13479, 139, 248, 278, 458, 578, 1234579, 12359, 13479, 139, 248, 278, 458, 578}
952:410	$0, 0, 0, 0, \frac{16}{1203}\sqrt{345}e^{12}, \frac{56}{401}\sqrt{23}e^{13}, \frac{16}{1203}\sqrt{345}e^{14}, \frac{8}{1203}\sqrt{9223}e^{25},$ $\frac{8}{1203}\sqrt{9798}e^{36} + \frac{40}{1203}\sqrt{69}e^{47}$	$(-\frac{40}{401}, -\frac{140}{1203}, \frac{112}{401}, \frac{112}{401}, -\frac{260}{1203}, \frac{72}{401}, \frac{72}{401}, -\frac{400}{1203}, \frac{184}{401})$ $+ \frac{8}{1203}\sqrt{23046}e^3 \otimes e_8$	{1234579, 12359, 13479, 139, 248, 278, 458, 578, 1234579, 12359, 13479, 139, 248, 278, 458, 578}
952:410	$0, 0, 0, 0, \frac{1}{156}\sqrt{8094}e^{12}, -\frac{1}{156}\sqrt{1065}e^{13}, \frac{1}{156}\sqrt{1065}e^{14}, \frac{1}{78}\sqrt{1846}e^{25},$ $\frac{1}{156}\sqrt{5538}e^{36} + \frac{1}{156}\sqrt{5538}e^{47}$	$(-\frac{5}{52}, \frac{47}{156}, -\frac{3}{104}, -\frac{3}{104}, \frac{8}{39}, -\frac{1}{8}, -\frac{1}{8}, \frac{79}{156}, -\frac{2}{13})$ $+ \frac{1}{156}\sqrt{18318}e^2 \otimes e_9$	{1234678, 12368, 128, 349, 379, 679, 1234678, 12368, 128, 349, 379, 679}
952:410	$0, 0, 0, 0, \frac{1}{156}\sqrt{8094}e^{12}, \frac{1}{156}\sqrt{1065}e^{13}, \frac{1}{156}\sqrt{1065}e^{14}, \frac{1}{78}\sqrt{1846}e^{25},$ $\frac{1}{156}\sqrt{5538}e^{36} + \frac{1}{156}\sqrt{5538}e^{47}$	$(-\frac{5}{52}, \frac{47}{156}, -\frac{3}{104}, -\frac{3}{104}, \frac{8}{39}, -\frac{1}{8}, -\frac{1}{8}, \frac{79}{156}, -\frac{2}{13})$ $+ \frac{1}{156}\sqrt{18318}e^2 \otimes e_9$	{1234678, 12368, 128, 349, 379, 679, 1234678, 12368, 128, 349, 379, 679}
952:412	$0, 0, 0, 0, \frac{16}{887}\sqrt{170}e^{12}, \frac{16}{887}\sqrt{170}e^{13}, \frac{8}{887}\sqrt{5253}e^{24}, \frac{8}{887}\sqrt{5253}e^{15},$ $\frac{8}{887}\sqrt{935}e^{36} + \frac{8}{887}\sqrt{5338}e^{47}$	$(-\frac{80}{887}, -\frac{120}{887}, \frac{244}{887}, \frac{264}{887}, -\frac{200}{887}, \frac{164}{887}, \frac{144}{887}, -\frac{280}{887}, \frac{408}{887})$ $+ \frac{24}{887}\sqrt{1394}e^4 \otimes e_8$	{1234569, 12459, 358, 568}
952:412	$0, 0, 0, 0, \frac{4}{4443}\sqrt{109474}e^{12}, \frac{4}{1481}\sqrt{57754}e^{13}, \frac{4}{4443}\sqrt{150419}e^{24},$ $\frac{4}{4443}\sqrt{465049}e^{15}, \frac{4}{4443}\sqrt{675377}e^{36} + \frac{4}{4443}\sqrt{111198}e^{47}$	$(-\frac{1238}{4443}, \frac{698}{4443}, \frac{1670}{4443}, \frac{234}{1481}, -\frac{180}{4443}, \frac{144}{1481}, \frac{1400}{4443}, -\frac{1778}{4443}, \frac{2102}{4443})$ $+ \frac{20}{4443}\sqrt{62926}e^3 \otimes e_8$	{146789, 1689, 2346, 2367}
952:413	$0, 0, 0, 0, \frac{1}{129}\sqrt{258}e^{12}, -\frac{1}{129}\sqrt{273}e^{13}, \frac{1}{129}\sqrt{285}e^{34}, \frac{2}{43}\sqrt{10}e^{15},$ $\frac{5}{43}e^{16} + \frac{1}{43}\sqrt{37}e^{47}$	$(-\frac{2}{43}, \frac{1}{43}, \frac{4}{43}, -\frac{2}{43}, -\frac{1}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{498}e^4 \otimes e_8 + \frac{8}{129}\sqrt{3}e^2 \otimes e_9$	{128, 134569, 2568, 349, 128, 134569, 2568, 349}
952:413	$0, 0, 0, 0, \frac{1}{129}\sqrt{258}e^{12}, \frac{1}{129}\sqrt{273}e^{13}, \frac{1}{129}\sqrt{285}e^{34}, \frac{2}{43}\sqrt{10}e^{15},$ $\frac{5}{43}e^{16} + \frac{1}{43}\sqrt{37}e^{47}$	$(-\frac{2}{43}, \frac{1}{43}, \frac{4}{43}, -\frac{2}{43}, -\frac{1}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{498}e^4 \otimes e_8 + \frac{8}{129}\sqrt{3}e^2 \otimes e_9$	{128, 134569, 2568, 349, 128, 134569, 2568, 349}
952:413	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, -\frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{10}e^{15},$ $\frac{2}{7}\sqrt{2}e^{16} + \frac{2}{7}\sqrt{2}e^{47}$	$(0, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{14}e^4 \otimes e_8 + \frac{1}{7}\sqrt{2}e^1 \otimes e_2$	{1236789, 128, 349, 467, 1236789, 128, 349, 467}
952:413	$0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{2}e^{13}, \frac{2}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{10}e^{15},$ $\frac{2}{7}\sqrt{2}e^{16} + \frac{2}{7}\sqrt{2}e^{47}$	$(0, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{14}e^4 \otimes e_8 + \frac{1}{7}\sqrt{2}e^1 \otimes e_2$	{1236789, 128, 349, 467, 1236789, 128, 349, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:413	$0, 0, 0, 0, \frac{1}{21}\sqrt{170}e^{12}, -\frac{1}{7}\sqrt{34}e^{13}, \frac{2}{21}\sqrt{17}e^{34}, \frac{1}{21}\sqrt{34}e^{15},$ $\frac{1}{7}\sqrt{34}e^{16} + \frac{2}{21}\sqrt{17}e^{47}$	$(\frac{1}{3}, -\frac{10}{21}, -\frac{4}{21}, \frac{1}{3}, -\frac{1}{7}, \frac{1}{7}, \frac{4}{21}, \frac{10}{21})$ $+\frac{2}{7}\sqrt{17}e^1 \otimes e_2$	{134789, 1389, 1468, 1678, 234679, 2369, 24, 27, 134789, 1389, 1468, 1678, 234679, 2369, 24, 27}
952:413	$0, 0, 0, 0, \frac{1}{21}\sqrt{170}e^{12}, \frac{1}{7}\sqrt{34}e^{13}, \frac{2}{21}\sqrt{17}e^{34}, \frac{1}{21}\sqrt{34}e^{15},$ $\frac{1}{7}\sqrt{34}e^{16} + \frac{2}{21}\sqrt{17}e^{47}$	$(\frac{1}{3}, -\frac{10}{21}, -\frac{4}{21}, \frac{1}{3}, -\frac{1}{7}, \frac{1}{7}, \frac{4}{21}, \frac{10}{21})$ $+\frac{2}{7}\sqrt{17}e^1 \otimes e_2$	{134789, 1389, 1468, 1678, 234679, 2369, 24, 27, 134789, 1389, 1468, 1678, 234679, 2369, 24, 27}
952:413	$0, 0, 0, 0, \frac{1}{45}\sqrt{210}e^{12}, -\frac{1}{45}\sqrt{273}e^{13}, \frac{1}{45}\sqrt{301}e^{34}, \frac{14}{45}\sqrt{2}e^{15},$ $\frac{1}{45}\sqrt{273}e^{16} + \frac{1}{45}\sqrt{301}e^{47}$	$(\frac{2}{45}, -\frac{1}{5}, \frac{4}{45}, \frac{2}{45}, -\frac{7}{45}, \frac{2}{15}, \frac{2}{15}, -\frac{1}{9}, \frac{8}{45})$ $+\frac{1}{45}\sqrt{546}e^4 \otimes e_8$	{1236789, 128, 134569, 1457, 235789, 2568, 349, 467, 1236789, 128, 134569, 1457, 235789, 2568, 349, 467}
952:413	$0, 0, 0, 0, \frac{1}{45}\sqrt{210}e^{12}, \frac{1}{45}\sqrt{273}e^{13}, \frac{1}{45}\sqrt{301}e^{34}, \frac{14}{45}\sqrt{2}e^{15},$ $\frac{1}{45}\sqrt{273}e^{16} + \frac{1}{45}\sqrt{301}e^{47}$	$(\frac{2}{45}, -\frac{1}{5}, \frac{4}{45}, \frac{2}{45}, -\frac{7}{45}, \frac{2}{15}, \frac{2}{15}, -\frac{1}{9}, \frac{8}{45})$ $+\frac{1}{45}\sqrt{546}e^4 \otimes e_8$	{1236789, 128, 134569, 1457, 235789, 2568, 349, 467, 1236789, 128, 134569, 1457, 235789, 2568, 349, 467}
952:415	$0, 0, 0, 0, \frac{8}{41}\sqrt{2}e^{12}, -\frac{8}{41}\sqrt{11}e^{13}, \frac{8}{41}\sqrt{10}e^{34}, \frac{8}{123}\sqrt{123}e^{25},$ $\frac{16}{123}\sqrt{6}e^{16} + \frac{8}{123}\sqrt{15}e^{47}$	$(-\frac{4}{41}, -\frac{4}{41}, \frac{20}{41}, -\frac{4}{41}, -\frac{8}{41}, \frac{16}{41}, \frac{16}{41}, -\frac{12}{41}, \frac{12}{41})$ $+\frac{80}{123}\sqrt{3}e^3 \otimes e_8$	{123459, 123579, 1349, 1379, 2478, 28, 4578, 58, 123459, 123579, 1349, 1379, 2478, 28, 4578, 58}
952:415	$0, 0, 0, 0, \frac{8}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{11}e^{13}, \frac{8}{41}\sqrt{10}e^{34}, \frac{8}{123}\sqrt{123}e^{25},$ $\frac{16}{123}\sqrt{6}e^{16} + \frac{8}{123}\sqrt{15}e^{47}$	$(-\frac{4}{41}, -\frac{4}{41}, \frac{20}{41}, -\frac{4}{41}, -\frac{8}{41}, \frac{16}{41}, \frac{16}{41}, -\frac{12}{41}, \frac{12}{41})$ $+\frac{80}{123}\sqrt{3}e^3 \otimes e_8$	{123459, 123579, 1349, 1379, 2478, 28, 4578, 58, 123459, 123579, 1349, 1379, 2478, 28, 4578, 58}
952:415	$0, 0, 0, 0, \frac{4}{23}\sqrt{5}e^{12}, -\frac{10}{69}\sqrt{6}e^{13}, \frac{2}{69}\sqrt{510}e^{34}, \frac{4}{69}\sqrt{115}e^{25},$ $\frac{10}{69}\sqrt{6}e^{16} + \frac{2}{69}\sqrt{510}e^{47}$	$(\frac{6}{23}, -\frac{20}{69}, -\frac{2}{23}, \frac{6}{23}, -\frac{2}{69}, \frac{4}{23}, \frac{4}{23}, -\frac{22}{69}, \frac{10}{23})$ $+\frac{4}{69}\sqrt{285}e^4 \otimes e_8$	{1236789, 128, 1356789, 158, 23459, 24567, 349, 467, 1236789, 128, 1356789, 158, 23459, 24567, 349, 467}
952:415	$0, 0, 0, 0, \frac{4}{23}\sqrt{5}e^{12}, \frac{10}{69}\sqrt{6}e^{13}, \frac{2}{69}\sqrt{510}e^{34}, \frac{4}{69}\sqrt{115}e^{25},$ $\frac{10}{69}\sqrt{6}e^{16} + \frac{2}{69}\sqrt{510}e^{47}$	$(\frac{6}{23}, -\frac{20}{69}, -\frac{2}{23}, \frac{6}{23}, -\frac{2}{69}, \frac{4}{23}, \frac{4}{23}, -\frac{22}{69}, \frac{10}{23})$ $+\frac{4}{69}\sqrt{285}e^4 \otimes e_8$	{1236789, 128, 1356789, 158, 23459, 24567, 349, 467, 1236789, 128, 1356789, 158, 23459, 24567, 349, 467}
952:415	$0, 0, 0, 0, \frac{8}{149}\sqrt{22}e^{12}, -\frac{8}{149}\sqrt{11}e^{13}, \frac{8}{149}\sqrt{22}e^{34}, \frac{8}{447}\sqrt{447}e^{25},$ $\frac{16}{447}\sqrt{33}e^{16} + \frac{8}{447}\sqrt{231}e^{47}$	$(-\frac{28}{149}, \frac{20}{149}, \frac{44}{149}, -\frac{28}{149}, -\frac{8}{149}, \frac{16}{149}, \frac{16}{149}, \frac{12}{149}, -\frac{12}{149})$ $+\frac{16}{447}\sqrt{129}e^3 \otimes e_8 + \frac{48}{149}\sqrt{2}e^2 \otimes e_9$	{124678, 1268, 3469, 3679, 124678, 1268, 3469, 3679}
952:415	$0, 0, 0, 0, \frac{8}{149}\sqrt{22}e^{12}, \frac{8}{149}\sqrt{11}e^{13}, \frac{8}{149}\sqrt{22}e^{34}, \frac{8}{447}\sqrt{447}e^{25},$ $\frac{16}{447}\sqrt{33}e^{16} + \frac{8}{447}\sqrt{231}e^{47}$	$(-\frac{28}{149}, \frac{20}{149}, \frac{44}{149}, -\frac{28}{149}, -\frac{8}{149}, \frac{16}{149}, \frac{16}{149}, \frac{12}{149}, -\frac{12}{149})$ $+\frac{16}{447}\sqrt{129}e^3 \otimes e_8 + \frac{48}{149}\sqrt{2}e^2 \otimes e_9$	{124678, 1268, 3469, 3679, 124678, 1268, 3469, 3679}
952:417	$0, 0, 0, 0, \frac{2}{189}\sqrt{5037}e^{12}, \frac{2}{63}\sqrt{146}e^{13}, \frac{2}{189}\sqrt{146}e^{34}, \frac{1}{189}\sqrt{5110}e^{15},$ $\frac{1}{189}\sqrt{13578}e^{36} + \frac{1}{189}\sqrt{13870}e^{47}$	$(-\frac{34}{189}, \frac{40}{63}, \frac{4}{189}, -\frac{5}{63}, \frac{86}{189}, -\frac{10}{63}, -\frac{11}{189}, \frac{52}{189}, -\frac{26}{189})$ $+\frac{1}{189}\sqrt{45114}e^2 \otimes e_9$	{12478, 128, 349, 379}
952:417	$0, 0, 0, 0, \frac{1}{9}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{51}e^{13}, \frac{1}{9}\sqrt{10}e^{34}, \frac{1}{9}\sqrt{43}e^{15},$ $\frac{2}{9}\sqrt{3}e^{36} + \frac{1}{9}\sqrt{7}e^{47}$	$(\frac{23}{45}, -\frac{3}{5}, -\frac{1}{9}, \frac{1}{5}, -\frac{4}{45}, \frac{2}{5}, \frac{4}{45}, \frac{19}{45}, \frac{13}{45})$ $+\frac{7}{9}\sqrt{3}e^1 \otimes e_2$	{14689, 16789, 23467, 236}
952:417	$0, 0, 0, 0, \frac{13}{541}\sqrt{181}e^{12}, \frac{39}{541}\sqrt{6}e^{13}, \frac{13}{541}\sqrt{91}e^{34}, \frac{13}{541}\sqrt{190}e^{15},$ $\frac{39}{541}\sqrt{33}e^{36} + \frac{130}{541}e^{47}$	$(-\frac{143}{541}, \frac{208}{541}, \frac{91}{541}, -\frac{26}{541}, \frac{65}{541}, -\frac{52}{541}, \frac{65}{541}, -\frac{78}{541}, \frac{39}{541})$ $+\frac{13}{541}\sqrt{458}e^2 \otimes e_9 + \frac{13}{541}\sqrt{485}e^3 \otimes e_8$	{13459, 13579, 24578, 258}
952:417	$0, 0, 0, 0, \frac{13}{541}\sqrt{181}e^{12}, \frac{39}{541}\sqrt{6}e^{13}, \frac{13}{541}\sqrt{91}e^{34}, \frac{13}{541}\sqrt{190}e^{15},$ $\frac{39}{541}\sqrt{33}e^{36} + \frac{130}{541}e^{47}$	$(-\frac{143}{541}, \frac{208}{541}, \frac{91}{541}, -\frac{26}{541}, \frac{65}{541}, -\frac{52}{541}, \frac{65}{541}, -\frac{78}{541}, \frac{39}{541})$ $+\frac{13}{541}\sqrt{458}e^2 \otimes e_9 - \frac{13}{541}\sqrt{485}e^3 \otimes e_8$	{13459, 13579, 24578, 258}
952:417	$0, 0, 0, 0, \frac{1}{471}\sqrt{682}e^{12}, \frac{1}{471}\sqrt{59334}e^{13}, \frac{1}{471}\sqrt{56606}e^{34}, \frac{16}{471}\sqrt{341}e^{15},$ $\frac{1}{157}\sqrt{10230}e^{36} + \frac{1}{471}\sqrt{11594}e^{47}$	$(-\frac{130}{471}, \frac{85}{471}, \frac{166}{471}, \frac{6}{157}, -\frac{15}{157}, \frac{12}{157}, \frac{184}{471}, -\frac{175}{471}, \frac{202}{471})$ $+\frac{1}{157}\sqrt{29326}e^3 \otimes e_8$	{146789, 1689, 2346, 2367}
952:417	$0, 0, 0, 0, \frac{1}{15}\sqrt{10}e^{12}, \frac{1}{45}\sqrt{165}e^{13}, \frac{1}{9}\sqrt{14}e^{34}, \frac{1}{45}\sqrt{355}e^{15},$ $\frac{2}{15}\sqrt{5}e^{36} + \frac{1}{45}\sqrt{295}e^{47}$	$(\frac{1}{45}, -\frac{1}{5}, \frac{1}{9}, \frac{1}{15}, -\frac{8}{45}, \frac{2}{15}, \frac{8}{45}, -\frac{7}{45}, \frac{11}{45})$ $+\frac{1}{45}\sqrt{195}e^1 \otimes e_2 + \frac{2}{9}\sqrt{6}e^4 \otimes e_8$	{134569, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:417	$0, 0, 0, 0, \frac{7}{181}\sqrt{17e^{12}}, \frac{7}{181}\sqrt{89e^{13}}, \frac{7}{181}\sqrt{21e^{34}}, \frac{7}{181}\sqrt{91e^{15}},$ $\frac{7}{181}\sqrt{71e^{36}} + \frac{7}{181}\sqrt{11e^{47}}$	$(\frac{7}{181}, -\frac{42}{181}, \frac{21}{181}, \frac{14}{181}, -\frac{35}{181}, \frac{28}{181}, \frac{35}{181}, -\frac{28}{181}, \frac{49}{181})$ $+ \frac{7}{181}\sqrt{139e^1} \otimes e_2 - \frac{7}{181}\sqrt{185e^3} \otimes e_8$	{146789, 1689, 2346, 2367}
952:417	$0, 0, 0, 0, \frac{7}{181}\sqrt{17e^{12}}, \frac{7}{181}\sqrt{89e^{13}}, \frac{7}{181}\sqrt{21e^{34}}, \frac{7}{181}\sqrt{91e^{15}},$ $\frac{7}{181}\sqrt{71e^{36}} + \frac{7}{181}\sqrt{11e^{47}}$	$(\frac{7}{181}, -\frac{42}{181}, \frac{21}{181}, \frac{14}{181}, -\frac{35}{181}, \frac{28}{181}, \frac{35}{181}, -\frac{28}{181}, \frac{49}{181})$ $+ \frac{7}{181}\sqrt{139e^1} \otimes e_2 + \frac{7}{181}\sqrt{185e^3} \otimes e_8$	{146789, 1689, 2346, 2367}
952:417	$0, 0, 0, 0, \frac{2}{123}\sqrt{210e^{12}}, \frac{8}{123}\sqrt{15e^{13}}, \frac{1}{123}\sqrt{1290e^{34}}, \frac{1}{41}\sqrt{130e^{15}},$ $\frac{2}{41}\sqrt{10e^{36}} + \frac{5}{41}\sqrt{6e^{47}}$	$(-\frac{7}{41}, \frac{8}{41}, \frac{5}{41}, -\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, \frac{4}{41}, -\frac{6}{41}, \frac{3}{41})$ $+ \frac{1}{123}\sqrt{2130e^4} \otimes e_8 + \frac{2}{123}\sqrt{285e^2} \otimes e_9$	{134569, 2568}
952:417	$0, 0, 0, 0, \frac{40}{609}\sqrt{23e^{12}}, \frac{10}{1827}\sqrt{6969e^{13}}, \frac{5}{1827}\sqrt{44942e^{34}},$ $\frac{5}{1827}\sqrt{37306e^{15}}, \frac{10}{1827}\sqrt{5727e^{36}} + \frac{25}{1827}\sqrt{1426e^{47}}$	$(-\frac{235}{1827}, -\frac{10}{609}, \frac{55}{261}, \frac{25}{609}, -\frac{265}{1827}, \frac{50}{609}, \frac{460}{1827}, -\frac{500}{1827}, \frac{535}{1827})$ $+ \frac{5}{1827}\sqrt{72174e^4} \otimes e_8$	{1236789, 134569, 2568, 467}
952:418	$0, 0, 0, 0, \frac{8}{4299}\sqrt{2990e^{12}}, \frac{24}{1433}\sqrt{455e^{13}}, \frac{8}{1433}\sqrt{14170e^{34}},$ $\frac{8}{4299}\sqrt{93145e^{25}}, \frac{80}{4299}\sqrt{663e^{36}} + \frac{8}{1433}\sqrt{12805e^{47}}$	$(\frac{276}{1433}, -\frac{1172}{4299}, \frac{100}{1433}, \frac{188}{1433}, -\frac{344}{1433}, \frac{376}{1433}, \frac{288}{1433}, -\frac{1516}{4299}, \frac{476}{1433})$ $+ \frac{16}{4299}\sqrt{58890e^4} \otimes e_8$	{1236789, 1356789, 24567, 467}
952:418	$0, 0, 0, 0, \frac{8}{903}\sqrt{4134e^{12}}, \frac{8}{903}\sqrt{663e^{13}}, \frac{8}{903}\sqrt{78e^{34}}, \frac{8}{903}\sqrt{3913e^{25}},$ $\frac{16}{903}\sqrt{741e^{36}} + \frac{40}{301}\sqrt{13e^{47}}$	$(-\frac{36}{301}, \frac{284}{903}, -\frac{4}{301}, -\frac{20}{301}, \frac{176}{903}, -\frac{40}{301}, -\frac{24}{301}, \frac{460}{903}, -\frac{44}{301})$ $+ \frac{16}{903}\sqrt{2418e^2} \otimes e_9$	{1234678, 12368, 469, 679}
952:425	$0, 0, 0, 0, \frac{63}{4517}\sqrt{658e^{12}}, \frac{63}{4517}\sqrt{730e^{13}}, \frac{63}{4517}\sqrt{2734e^{24}},$ $\frac{63}{4517}\sqrt{2874e^{15}} + \frac{63}{4517}\sqrt{1490e^{23}}, \frac{126}{4517}\sqrt{87e^{16}} + \frac{126}{4517}\sqrt{86e^{27}}$	$(\frac{189}{4517}, -\frac{1197}{4517}, \frac{378}{4517}, \frac{3150}{4517}, -\frac{1008}{4517}, \frac{567}{4517}, \frac{1953}{4517}, -\frac{819}{4517}, \frac{756}{4517})$ $+ \frac{63}{4517}\sqrt{7518e^4} \otimes e_8$	{1234569, 2349}
952:425	$0, 0, 0, 0, \frac{126}{4253}\sqrt{749e^{12}}, \frac{63}{4253}\sqrt{1474e^{13}}, \frac{63}{4253}\sqrt{1238e^{24}},$ $\frac{126}{4253}\sqrt{177e^{15}} + \frac{63}{4253}\sqrt{1958e^{23}}, \frac{378}{4253}\sqrt{38e^{16}} + \frac{126}{4253}\sqrt{410e^{27}}$	$(\frac{189}{4253}, \frac{1575}{4253}, \frac{378}{4253}, -\frac{2394}{4253}, \frac{1764}{4253}, \frac{567}{4253}, -\frac{819}{4253}, \frac{1953}{4253}, \frac{756}{4253})$ $+ \frac{63}{4253}\sqrt{7266e^2} \otimes e_4$	{145, 46}
952:426	$0, 0, 0, 0, \frac{6}{83}\sqrt{6e^{12}}, \frac{21}{83}\sqrt{6e^{13}}, \frac{3}{83}\sqrt{258e^{14}},$ $\frac{9}{83}\sqrt{34e^{15}} + \frac{6}{83}\sqrt{138e^{23}}, \frac{6}{83}\sqrt{138e^{17}} + \frac{18}{83}e^{36}$	$(-\frac{3}{83}, \frac{39}{83}, -\frac{6}{83}, -\frac{9}{83}, \frac{36}{83}, -\frac{9}{83}, -\frac{12}{83}, \frac{33}{83}, -\frac{15}{83})$ $+ \frac{9}{83}\sqrt{94e^2} \otimes e_9$	{149, 268}
952:426	$0, 0, 0, 0, \frac{3}{19}\sqrt{17e^{12}}, \frac{1}{19}\sqrt{111e^{13}}, \frac{8}{19}\sqrt{3e^{14}},$ $\frac{2}{19}\sqrt{21e^{15}} + \frac{3}{19}\sqrt{26e^{23}}, \frac{1}{19}\sqrt{165e^{17}} + \frac{3}{19}\sqrt{14e^{36}}$	$(\frac{1}{19}, -\frac{5}{19}, \frac{2}{19}, \frac{3}{19}, -\frac{4}{19}, \frac{3}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{3}{19}\sqrt{23e^4} \otimes e_8$	{149, 268}
952:427	$0, 0, 0, 0, \frac{1368}{2743}\sqrt{2e^{12}}, \frac{1440}{2743}e^{13}, \frac{72}{2743}\sqrt{413e^{24}},$ $\frac{72}{2743}\sqrt{39e^{15}} + \frac{144}{2743}\sqrt{227e^{23}}, \frac{72}{2743}\sqrt{482e^{27}} + \frac{216}{2743}\sqrt{37e^{36}}$	$(\frac{108}{2743}, \frac{1044}{2743}, \frac{216}{2743}, -\frac{1548}{2743}, \frac{1152}{2743}, \frac{324}{2743}, -\frac{504}{2743}, \frac{1260}{2743}, \frac{540}{2743})$ $+ \frac{2016}{2743}\sqrt{3e^2} \otimes e_4$	{12369, 348}
952:427	$0, 0, 0, 0, \frac{8}{109}\sqrt{30e^{12}}, \frac{16}{109}\sqrt{6e^{13}}, \frac{24}{109}\sqrt{11e^{24}},$ $\frac{8}{109}\sqrt{97e^{15}} + \frac{16}{109}\sqrt{15e^{23}}, \frac{8}{109}\sqrt{10e^{27}} + \frac{8}{109}\sqrt{5e^{36}}$	$(\frac{4}{109}, -\frac{28}{109}, \frac{8}{109}, \frac{76}{109}, -\frac{24}{109}, \frac{12}{109}, \frac{48}{109}, -\frac{20}{109}, \frac{20}{109})$ $+ \frac{32}{109}\sqrt{17e^4} \otimes e_8$	{1234569, 358}
952:428	$0, 0, 0, 0, \frac{18}{337}\sqrt{237e^{12}}, \frac{18}{337}\sqrt{195e^{13}}, \frac{9}{337}\sqrt{366e^{34}},$ $\frac{54}{337}\sqrt{11e^{15}} + \frac{36}{337}\sqrt{3e^{23}}, \frac{27}{337}\sqrt{10e^{16}} + \frac{18}{337}\sqrt{237e^{37}}$	$(-\frac{18}{337}, \frac{171}{337}, -\frac{36}{337}, 0, \frac{153}{337}, -\frac{54}{337}, -\frac{36}{337}, \frac{135}{337}, -\frac{72}{337})$ $+ \frac{54}{337}\sqrt{46e^2} \otimes e_9$	{128, 2568}
952:428	$0, 0, 0, 0, \frac{6}{361}\sqrt{597e^{12}}, \frac{6}{361}\sqrt{654e^{13}}, \frac{3}{361}\sqrt{6e^{34}},$ $\frac{18}{361}\sqrt{83e^{15}} + \frac{6}{361}\sqrt{429e^{23}}, \frac{9}{361}\sqrt{274e^{16}} + \frac{6}{361}\sqrt{597e^{37}}$	$(\frac{12}{361}, -\frac{51}{361}, \frac{24}{361}, 0, -\frac{39}{361}, \frac{36}{361}, \frac{24}{361}, -\frac{27}{361}, \frac{48}{361})$ $+ \frac{90}{361}\sqrt{2e^4} \otimes e_8$	{134569, 349}
952:429	$0, 0, 0, 0, \frac{86}{4557}\sqrt{331e^{12}}, \frac{43}{4557}\sqrt{3062e^{13}}, \frac{86}{4557}\sqrt{915e^{14}},$ $\frac{43}{4557}\sqrt{4322e^{15}}, \frac{215}{4557}\sqrt{178e^{16}} + \frac{172}{4557}\sqrt{67e^{23}} + \frac{86}{4557}\sqrt{1041e^{47}}$	$(-\frac{43}{651}, -\frac{86}{651}, \frac{1591}{4557}, \frac{215}{4557}, -\frac{43}{217}, \frac{430}{1519}, \frac{344}{4557}, -\frac{172}{651}, \frac{989}{4557})$ $+ \frac{43}{4557}\sqrt{7922e^4} \otimes e_8$	{134569, 467}
952:429	$0, 0, 0, 0, \frac{31}{1145}\sqrt{101e^{12}}, \frac{62}{1145}\sqrt{69e^{13}}, \frac{31}{1145}\sqrt{93e^{14}}, \frac{62}{1145}\sqrt{205e^{15}},$ $\frac{31}{1145}\sqrt{353e^{16}} + \frac{62}{1145}\sqrt{209e^{23}} + \frac{62}{1145}\sqrt{10e^{47}}$	$(-\frac{93}{1145}, -\frac{186}{1145}, \frac{589}{1145}, \frac{248}{1145}, -\frac{279}{1145}, \frac{496}{1145}, \frac{31}{229}, -\frac{372}{1145}, \frac{403}{1145})$ $+ \frac{31}{1145}\sqrt{1927e^3} \otimes e_8$	{2346, 2367}
952:430	$0, 0, 0, 0, \frac{4}{27}\sqrt{5e^{12}}, \frac{4}{27}\sqrt{3e^{13}}, \frac{4}{27}\sqrt{3e^{14}}, \frac{4}{27}\sqrt{23e^{25}},$ $\frac{4}{27}\sqrt{5e^{16}} + \frac{8}{27}\sqrt{3e^{23}} + \frac{4}{27}e^{47}$	$(-\frac{2}{27}, -\frac{4}{27}, \frac{14}{27}, \frac{2}{9}, -\frac{2}{9}, \frac{4}{9}, \frac{4}{27}, -\frac{10}{27}, \frac{10}{27})$ $+ \frac{4}{27}\sqrt{67e^3} \otimes e_8$	{13479, 139, 458, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:430	$0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{4}{9}\sqrt{3}e^{13}, \frac{4}{27}\sqrt{3}e^{14}, \frac{4}{27}\sqrt{23}e^{25},$ $\frac{4}{27}\sqrt{5}e^{16} + \frac{8}{27}\sqrt{3}e^{23} + \frac{4}{27}e^{47}$	$(-\frac{2}{27}, -\frac{4}{27}, \frac{14}{27}, \frac{2}{9}, -\frac{2}{9}, \frac{4}{9}, \frac{4}{27}, -\frac{10}{27}, \frac{10}{27})$ $-\frac{4}{27}\sqrt{67}e^3 \otimes e_8$	{13479, 139, 458, 578}
952:430	$0, 0, 0, 0, \frac{208}{2933}\sqrt{10}e^{12}, \frac{260}{2933}\sqrt{5}e^{13}, \frac{1768}{2933}e^{14}, \frac{52}{2933}\sqrt{1145}e^{25},$ $\frac{52}{2933}\sqrt{570}e^{16} + \frac{52}{2933}\sqrt{502}e^{23} + \frac{52}{2933}\sqrt{1335}e^{47}$	$(-\frac{26}{419}, -\frac{52}{419}, \frac{1066}{2933}, \frac{442}{2933}, -\frac{78}{419}, \frac{884}{2933}, \frac{260}{2933}, -\frac{130}{419}, \frac{702}{2933})$ $+\frac{52}{2933}\sqrt{2494}e^4 \otimes e_8$	{1236789, 24567}
952:431	$0, 0, 0, 0, \frac{47}{4837}\sqrt{754}e^{12}, \frac{47}{4837}\sqrt{674}e^{13}, \frac{94}{4837}\sqrt{865}e^{24},$ $\frac{47}{4837}\sqrt{4166}e^{15}, \frac{235}{4837}\sqrt{86}e^{16} + \frac{94}{4837}\sqrt{365}e^{23} + \frac{282}{4837}\sqrt{123}e^{47}$	$(-\frac{47}{691}, -\frac{94}{691}, \frac{1786}{4837}, \frac{893}{4837}, \frac{141}{691}, \frac{1457}{4837}, \frac{235}{4837}, -\frac{188}{691}, \frac{1128}{4837})$ $+\frac{94}{4837}\sqrt{2059}e^4 \otimes e_8$	{1236789, 235789}
952:432	$0, 0, 0, 0, \frac{8}{109}\sqrt{30}e^{12}, \frac{16}{109}\sqrt{6}e^{13}, \frac{24}{109}\sqrt{11}e^{24}, \frac{8}{109}\sqrt{97}e^{15},$ $\frac{16}{109}\sqrt{15}e^{14} + \frac{8}{109}\sqrt{10}e^{27} + \frac{8}{109}\sqrt{5}e^{36}$	$(-\frac{16}{109}, -\frac{8}{109}, \frac{28}{109}, \frac{56}{109}, -\frac{24}{109}, \frac{12}{109}, \frac{48}{109}, -\frac{40}{109}, \frac{40}{109})$ $+\frac{32}{109}\sqrt{17}e^4 \otimes e_8$	{358, 568}
952:432	$0, 0, 0, 0, \frac{8}{441}\sqrt{14}e^{12}, \frac{16}{441}\sqrt{273}e^{13}, \frac{8}{441}\sqrt{595}e^{24}, \frac{8}{441}\sqrt{1085}e^{15},$ $\frac{16}{147}\sqrt{35}e^{14} + \frac{8}{147}\sqrt{14}e^{27} + \frac{8}{441}\sqrt{1407}e^{36}$	$(-\frac{8}{63}, -\frac{4}{63}, \frac{4}{21}, \frac{8}{21}, -\frac{4}{63}, \frac{4}{63}, \frac{20}{63}, -\frac{20}{63}, \frac{16}{63})$ $+\frac{32}{441}\sqrt{161}e^3 \otimes e_8$	{123459, 146789}
952:433	$0, 0, 0, 0, \frac{62}{1669}\sqrt{534}e^{12}, \frac{62}{1669}\sqrt{349}e^{13}, \frac{31}{1669}\sqrt{1626}e^{24},$ $\frac{558}{1669}\sqrt{7}e^{15}, \frac{93}{1669}\sqrt{230}e^{16} + \frac{186}{1669}\sqrt{26}e^{27} + \frac{31}{1669}\sqrt{3122}e^{34}$	$(-\frac{279}{1669}, \frac{403}{1669}, \frac{806}{1669}, -\frac{558}{1669}, \frac{124}{1669}, \frac{527}{1669}, -\frac{155}{1669}, -\frac{155}{1669}, \frac{248}{1669})$ $+\frac{31}{1669}\sqrt{2958}e^3 \otimes e_8$	{128, 2568}
952:433	$0, 0, 0, 0, \frac{2}{143}\sqrt{715}e^{12}, \frac{1}{143}\sqrt{3190}e^{13}, \frac{6}{143}\sqrt{33}e^{24}, \frac{2}{143}\sqrt{759}e^{15},$ $\frac{6}{143}\sqrt{77}e^{16} + \frac{1}{143}\sqrt{1254}e^{27} + \frac{5}{143}\sqrt{154}e^{34}$	$(\frac{1}{13}, -\frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, 0, -\frac{1}{13}, \frac{1}{13}, \frac{1}{13}, 0)$ $+\frac{3}{143}\sqrt{330}e^4 \otimes e_8$	{128, 2568}
952:434	$0, 0, 0, 0, \frac{62}{4779}\sqrt{705}e^{15} + \frac{62}{4779}\sqrt{823}e^{23}, \frac{124}{4779}\sqrt{219}e^{16} + \frac{31}{4779}\sqrt{4354}e^{47}$	$(\frac{248}{4779}, -\frac{1085}{4779}, \frac{496}{4779}, \frac{124}{1593}, -\frac{31}{177}, \frac{248}{1593}, \frac{620}{4779}, -\frac{589}{4779}, \frac{992}{4779})$ $+\frac{62}{531}\sqrt{26}e^4 \otimes e_8$	{2568, 467}
952:434	$0, 0, 0, 0, \frac{29}{1245}\sqrt{446}e^{12}, \frac{29}{1245}\sqrt{186}e^{13}, \frac{29}{1245}\sqrt{58}e^{14},$ $\frac{58}{1245}\sqrt{62}e^{15} + \frac{29}{1245}\sqrt{826}e^{23}, \frac{29}{1245}\sqrt{570}e^{16} + \frac{232}{1245}\sqrt{10}e^{47}$	$(-\frac{58}{1245}, \frac{203}{415}, -\frac{116}{1245}, \frac{29}{415}, \frac{551}{1245}, -\frac{58}{415}, -\frac{29}{249}, \frac{493}{1245}, -\frac{232}{1245})$ $+\frac{29}{1245}\sqrt{2082}e^2 \otimes e_8$	{123467, 1236}
952:435	$0, 0, 0, 0, \frac{51}{5693}\sqrt{494}e^{12}, \frac{51}{5693}\sqrt{1706}e^{13}, \frac{204}{5693}\sqrt{194}e^{24},$ $\frac{51}{5693}\sqrt{4754}e^{15} + \frac{102}{5693}\sqrt{395}e^{23}, \frac{255}{5693}\sqrt{110}e^{16} + \frac{102}{5693}\sqrt{1178}e^{47}$	$(\frac{459}{5693}, -\frac{1734}{5693}, \frac{918}{5693}, \frac{1785}{5693}, -\frac{1275}{5693}, \frac{1377}{5693}, \frac{51}{5693}, -\frac{816}{5693}, \frac{1836}{5693})$ $+\frac{102}{5693}\sqrt{2419}e^4 \otimes e_8$	{1457, 467}
952:436	$0, 0, 0, 0, \frac{2}{81}\sqrt{19}e^{12}, -\frac{1}{81}\sqrt{798}e^{13}, \frac{38}{81}e^{14},$ $\frac{2}{81}\sqrt{57}e^{15} + \frac{2}{81}\sqrt{437}e^{23}, \frac{4}{81}\sqrt{57}e^{36} + \frac{1}{81}\sqrt{1330}e^{47}$	$(\frac{4}{81}, -\frac{19}{81}, \frac{8}{81}, \frac{8}{81}, -\frac{5}{27}, \frac{4}{27}, \frac{4}{27}, -\frac{11}{81}, \frac{20}{81})$ $+\frac{4}{27}\sqrt{19}e^4 \otimes e_8$	{1234569, 136789, 2347, 358, 1234569, 136789, 2347, 358}
952:436	$0, 0, 0, 0, \frac{2}{81}\sqrt{19}e^{12}, \frac{1}{81}\sqrt{798}e^{13}, \frac{38}{81}e^{14},$ $\frac{2}{81}\sqrt{57}e^{15} + \frac{2}{81}\sqrt{437}e^{23}, \frac{4}{81}\sqrt{57}e^{36} + \frac{1}{81}\sqrt{1330}e^{47}$	$(\frac{4}{81}, -\frac{19}{81}, \frac{8}{81}, \frac{8}{81}, -\frac{5}{27}, \frac{4}{27}, \frac{4}{27}, -\frac{11}{81}, \frac{20}{81})$ $+\frac{4}{27}\sqrt{19}e^4 \otimes e_8$	{1234569, 136789, 2347, 358, 1234569, 136789, 2347, 358}
952:436	$0, 0, 0, 0, \frac{17}{417}\sqrt{262}e^{12}, -\frac{17}{417}\sqrt{11}e^{13}, \frac{17}{417}\sqrt{17}e^{14},$ $\frac{68}{417}\sqrt{2}e^{15} + \frac{34}{417}\sqrt{41}e^{23}, \frac{119}{417}\sqrt{3}e^{36} + \frac{17}{417}\sqrt{229}e^{47}$	$(-\frac{17}{417}, \frac{68}{139}, -\frac{34}{417}, -\frac{34}{417}, \frac{187}{417}, -\frac{17}{139}, -\frac{17}{139}, \frac{170}{417}, -\frac{85}{417})$ $+\frac{17}{417}\sqrt{690}e^2 \otimes e_9$	{12478, 128, 469, 679, 12478, 128, 469, 679}
952:436	$0, 0, 0, 0, \frac{17}{417}\sqrt{262}e^{12}, \frac{17}{417}\sqrt{11}e^{13}, \frac{17}{417}\sqrt{17}e^{14},$ $\frac{68}{417}\sqrt{2}e^{15} + \frac{34}{417}\sqrt{41}e^{23}, \frac{119}{417}\sqrt{3}e^{36} + \frac{17}{417}\sqrt{229}e^{47}$	$(-\frac{17}{417}, \frac{68}{139}, -\frac{34}{417}, -\frac{34}{417}, \frac{187}{417}, -\frac{17}{139}, -\frac{17}{139}, \frac{170}{417}, -\frac{85}{417})$ $+\frac{17}{417}\sqrt{690}e^2 \otimes e_9$	{12478, 128, 469, 679, 12478, 128, 469, 679}
952:438	$0, 0, 0, 0, \frac{12}{737}\sqrt{370}e^{12}, \frac{12}{737}\sqrt{370}e^{13}, \frac{12}{737}\sqrt{1015}e^{24},$ $\frac{12}{737}\sqrt{1015}e^{15} + \frac{12}{737}\sqrt{1010}e^{23}, \frac{12}{737}\sqrt{635}e^{36} + \frac{144}{737}\sqrt{10}e^{47}$	$(\frac{54}{737}, -\frac{222}{737}, \frac{108}{737}, \frac{246}{737}, -\frac{168}{737}, \frac{162}{737}, \frac{24}{737}, -\frac{114}{737}, \frac{270}{737})$ $+\frac{24}{737}\sqrt{785}e^4 \otimes e_8$	{1234569, 358}
952:439	$0, 0, 0, 0, \frac{3}{82}\sqrt{59}e^{12}, -\frac{3}{82}\sqrt{65}e^{13}, \frac{3}{82}\sqrt{85}e^{34}, \frac{21}{82}\sqrt{2}e^{15},$ $\frac{3}{82}\sqrt{65}e^{16} + \frac{3}{82}\sqrt{26}e^{23} + \frac{3}{82}\sqrt{85}e^{47}$	$(-\frac{3}{82}, -\frac{3}{41}, \frac{27}{164}, -\frac{3}{82}, -\frac{9}{82}, \frac{21}{164}, \frac{21}{164}, -\frac{6}{41}, \frac{15}{164})$ $+\frac{3}{82}\sqrt{143}e^4 \otimes e_8$	{1236789, 128, 235789, 2568, 1236789, 128, 235789, 2568}
952:439	$0, 0, 0, 0, \frac{3}{82}\sqrt{59}e^{12}, \frac{3}{82}\sqrt{65}e^{13}, \frac{3}{82}\sqrt{85}e^{34}, \frac{21}{82}\sqrt{2}e^{15},$ $\frac{3}{82}\sqrt{65}e^{16} + \frac{3}{82}\sqrt{26}e^{23} + \frac{3}{82}\sqrt{85}e^{47}$	$(-\frac{3}{82}, -\frac{3}{41}, \frac{27}{164}, -\frac{3}{82}, -\frac{9}{82}, \frac{21}{164}, \frac{21}{164}, -\frac{6}{41}, \frac{15}{164})$ $+\frac{3}{82}\sqrt{143}e^4 \otimes e_8$	{1236789, 128, 235789, 2568, 1236789, 128, 235789, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:440	$0, 0, 0, 0, \frac{6}{77}\sqrt{55}e^{12}, \frac{1}{77}\sqrt{3102}e^{13}, \frac{4}{77}\sqrt{165}e^{34}, \frac{1}{77}\sqrt{3498}e^{15},$ $\frac{1}{77}\sqrt{2310}e^{16} + \frac{2}{77}\sqrt{66}e^{24} + \frac{6}{77}\sqrt{55}e^{37}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{2}{7}, 0, \frac{1}{7})$ $+ \frac{1}{77}\sqrt{4290}e^4 \otimes e_8$	{134569, 349}
952:440	$0, 0, 0, 0, \frac{18}{521}\sqrt{10}e^{12}, \frac{2}{521}\sqrt{865}e^{13}, \frac{1}{521}\sqrt{3810}e^{34}, \frac{1}{521}\sqrt{3810}e^{15},$ $\frac{2}{521}\sqrt{690}e^{16} + \frac{2}{521}\sqrt{690}e^{24} + \frac{1}{521}\sqrt{4730}e^{37}$	$(-\frac{9}{521}, \frac{26}{521}, \frac{13}{521}, -\frac{31}{521}, \frac{17}{521}, \frac{4}{521}, -\frac{18}{521}, \frac{8}{521}, -\frac{5}{521})$ $+ \frac{1}{521}\sqrt{4470}e^3 \otimes e_8$	{128, 2568}
952:442	$0, 0, 0, 0, \frac{4}{53}\sqrt{13}e^{12}, -\frac{2}{53}\sqrt{6}e^{13}, \frac{2}{53}\sqrt{110}e^{34}, \frac{12}{53}\sqrt{3}e^{25},$ $\frac{2}{53}\sqrt{6}e^{16} + \frac{8}{53}\sqrt{7}e^{23} + \frac{2}{53}\sqrt{110}e^{47}$	$(-\frac{2}{53}, -\frac{4}{53}, \frac{10}{53}, -\frac{2}{53}, -\frac{6}{53}, \frac{8}{53}, \frac{8}{53}, -\frac{10}{53}, \frac{6}{53})$ $+ \frac{12}{53}\sqrt{5}e^4 \otimes e_8$	{1236789, 128, 23459, 24567, 1236789, 128, 23459, 24567}
952:442	$0, 0, 0, 0, \frac{4}{53}\sqrt{13}e^{12}, \frac{2}{53}\sqrt{6}e^{13}, \frac{2}{53}\sqrt{110}e^{34}, \frac{12}{53}\sqrt{3}e^{25},$ $\frac{2}{53}\sqrt{6}e^{16} + \frac{8}{53}\sqrt{7}e^{23} + \frac{2}{53}\sqrt{110}e^{47}$	$(-\frac{2}{53}, -\frac{4}{53}, \frac{10}{53}, -\frac{2}{53}, -\frac{6}{53}, \frac{8}{53}, \frac{8}{53}, -\frac{10}{53}, \frac{6}{53})$ $+ \frac{12}{53}\sqrt{5}e^4 \otimes e_8$	{1236789, 128, 23459, 24567, 1236789, 128, 23459, 24567}
952:442	$0, 0, 0, 0, \frac{4}{31}\sqrt{6}e^{12}, -\frac{8}{31}\sqrt{6}e^{13}, \frac{4}{31}\sqrt{21}e^{34}, \frac{4}{31}\sqrt{29}e^{25},$ $\frac{4}{31}\sqrt{5}e^{16} + \frac{4}{31}\sqrt{6}e^{23} + \frac{4}{31}\sqrt{2}e^{47}$	$(-\frac{2}{31}, -\frac{4}{31}, \frac{14}{31}, -\frac{2}{31}, -\frac{6}{31}, \frac{12}{31}, \frac{12}{31}, -\frac{10}{31}, \frac{10}{31})$ $+ \frac{8}{31}\sqrt{19}e^3 \otimes e_8$	{1349, 1379, 4578, 58, 1349, 1379, 4578, 58}
952:442	$0, 0, 0, 0, \frac{4}{31}\sqrt{6}e^{12}, \frac{8}{31}\sqrt{6}e^{13}, \frac{4}{31}\sqrt{21}e^{34}, \frac{4}{31}\sqrt{29}e^{25},$ $\frac{4}{31}\sqrt{5}e^{16} + \frac{4}{31}\sqrt{6}e^{23} + \frac{4}{31}\sqrt{2}e^{47}$	$(-\frac{2}{31}, -\frac{4}{31}, \frac{14}{31}, -\frac{2}{31}, -\frac{6}{31}, \frac{12}{31}, \frac{12}{31}, -\frac{10}{31}, \frac{10}{31})$ $+ \frac{8}{31}\sqrt{19}e^3 \otimes e_8$	{1349, 1379, 4578, 58, 1349, 1379, 4578, 58}
952:443	$0, 0, 0, 0, \frac{60}{221}\sqrt{2}e^{12}, \frac{40}{221}\sqrt{6}e^{13}, \frac{20}{221}\sqrt{77}e^{34}, \frac{20}{221}\sqrt{69}e^{25},$ $\frac{20}{221}\sqrt{3}e^{16} + \frac{20}{221}\sqrt{14}e^{24} + \frac{60}{221}\sqrt{2}e^{37}$	$(\frac{50}{221}, -\frac{60}{221}, -\frac{30}{221}, \frac{10}{17}, -\frac{10}{221}, \frac{20}{221}, \frac{100}{221}, -\frac{70}{221}, \frac{70}{221})$ $+ \frac{120}{221}\sqrt{5}e^4 \otimes e_8$	{158, 349}
952:443	$0, 0, 0, 0, \frac{4}{409}\sqrt{730}e^{12}, \frac{8}{409}\sqrt{105}e^{13}, \frac{4}{409}\sqrt{1265}e^{34}, \frac{60}{409}\sqrt{5}e^{25},$ $\frac{12}{409}\sqrt{15}e^{16} + \frac{4}{409}\sqrt{1330}e^{24} + \frac{4}{409}\sqrt{1310}e^{37}$	$(\frac{26}{409}, -\frac{44}{409}, -\frac{22}{409}, \frac{74}{409}, -\frac{18}{409}, \frac{4}{409}, \frac{52}{409}, -\frac{62}{409}, \frac{30}{409})$ $+ \frac{8}{409}\sqrt{435}e^3 \otimes e_8$	{128, 23459}
952:445	$0, 0, 0, 0, \frac{232}{1251}\sqrt{6}e^{12}, -\frac{145}{1251}\sqrt{6}e^{13}, \frac{58}{1251}\sqrt{29}e^{34},$ $\frac{58}{1251}\sqrt{79}e^{15} + \frac{290}{417}e^{23}, \frac{290}{1251}\sqrt{6}e^{16} + \frac{29}{1251}\sqrt{634}e^{47}$	$(-\frac{58}{1251}, \frac{203}{417}, -\frac{116}{1251}, -\frac{58}{1251}, \frac{551}{1251}, -\frac{58}{417}, -\frac{58}{417}, \frac{493}{1251}, -\frac{232}{1251})$ $+ \frac{290}{1251}\sqrt{21}e^2 \otimes e_9$	{123467, 1236, 23457, 235, 123467, 1236, 23457, 235}
952:445	$0, 0, 0, 0, \frac{232}{1251}\sqrt{6}e^{12}, \frac{145}{1251}\sqrt{6}e^{13}, \frac{58}{1251}\sqrt{29}e^{34},$ $\frac{58}{1251}\sqrt{79}e^{15} + \frac{290}{417}e^{23}, \frac{290}{1251}\sqrt{6}e^{16} + \frac{29}{1251}\sqrt{634}e^{47}$	$(-\frac{58}{1251}, \frac{203}{417}, -\frac{116}{1251}, -\frac{58}{1251}, \frac{551}{1251}, -\frac{58}{417}, -\frac{58}{417}, \frac{493}{1251}, -\frac{232}{1251})$ $+ \frac{290}{1251}\sqrt{21}e^2 \otimes e_9$	{123467, 1236, 23457, 235, 123467, 1236, 23457, 235}
952:447	$0, 0, 0, 0, \frac{34}{837}\sqrt{249}e^{12}, \frac{34}{837}\sqrt{10}e^{13}, \frac{34}{837}\sqrt{34}e^{34},$ $\frac{17}{837}\sqrt{70}e^{15} + \frac{68}{279}\sqrt{5}e^{23}, \frac{17}{837}\sqrt{618}e^{36} + \frac{17}{837}\sqrt{910}e^{47}$	$(-\frac{34}{837}, \frac{136}{279}, -\frac{68}{837}, -\frac{17}{279}, \frac{374}{837}, -\frac{34}{279}, -\frac{119}{837}, \frac{340}{837}, -\frac{170}{837})$ $+ \frac{17}{837}\sqrt{2778}e^2 \otimes e_9$	{469, 679}
952:447	$0, 0, 0, 0, \frac{70}{429}\sqrt{e^{12}}, \frac{7}{1287}\sqrt{4530}e^{13}, \frac{70}{1287}\sqrt{62}e^{34},$ $\frac{14}{1287}\sqrt{1165}e^{15} + \frac{14}{429}\sqrt{95}e^{23}, \frac{14}{1287}\sqrt{1155}e^{36} + \frac{7}{1287}\sqrt{5830}e^{47}$	$(\frac{56}{1287}, -\frac{7}{33}, \frac{112}{1287}, \frac{28}{429}, -\frac{217}{1287}, \frac{56}{429}, \frac{196}{1287}, -\frac{161}{1287}, \frac{280}{1287})$ $+ \frac{28}{1287}\sqrt{705}e^4 \otimes e_8$	{2568, 467}
952:449	$0, 0, 0, 0, \frac{14}{137}\sqrt{35}e^{12}, \frac{14}{137}\sqrt{30}e^{13}, \frac{7}{137}\sqrt{206}e^{14},$ $\frac{35}{137}\sqrt{2}e^{15} + \frac{70}{137}e^{34}, \frac{14}{137}\sqrt{43}e^{17} + \frac{7}{137}\sqrt{2}e^{36}$	$(\frac{35}{137}, -\frac{63}{137}, \frac{14}{137}, -\frac{7}{137}, -\frac{28}{137}, \frac{49}{137}, \frac{28}{137}, \frac{7}{137}, \frac{63}{137})$ $+ \frac{7}{137}\sqrt{470}e^1 \otimes e_2$	{13489, 236}
952:449	$0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{15}e^{13}, \frac{1}{9}\sqrt{5}e^{14}, \frac{1}{3}e^{15} + \frac{1}{9}\sqrt{2}e^{34},$ $\frac{1}{9}\sqrt{5}e^{17} + \frac{1}{9}\sqrt{42}e^{36}$	$(-\frac{2}{9}, \frac{2}{9}, 0, \frac{2}{9}, \frac{4}{9}, -\frac{2}{9}, 0, \frac{2}{9}, -\frac{2}{9})$ $+ \frac{1}{9}\sqrt{119}e^2 \otimes e_9$	{1234678, 379}
952:450	$0, 0, 0, 0, \frac{56}{3149}\sqrt{910}e^{12}, \frac{112}{3149}\sqrt{23}e^{13}, \frac{56}{3149}\sqrt{109}e^{14},$ $\frac{56}{3149}\sqrt{1259}e^{25} + \frac{112}{3149}\sqrt{157}e^{34}, \frac{56}{3149}\sqrt{402}e^{17} + \frac{840}{3149}\sqrt{5}e^{36}$	$(-\frac{812}{3149}, \frac{980}{3149}, \frac{112}{3149}, \frac{1036}{3149}, \frac{168}{3149}, -\frac{700}{3149}, \frac{224}{3149}, \frac{1148}{3149}, -\frac{588}{3149})$ $+ \frac{112}{3149}\sqrt{658}e^2 \otimes e_9$	{1278, 4679}
952:453	$0, 0, 0, 0, \frac{7}{162}\sqrt{35}e^{12}, \frac{7}{162}\sqrt{6}e^{13}, \frac{7}{162}\sqrt{69}e^{34},$ $\frac{7}{162}\sqrt{102}e^{14} + \frac{7}{162}\sqrt{142}e^{25}, \frac{7}{81}\sqrt{15}e^{16} + \frac{7}{162}\sqrt{106}e^{37}$	$(\frac{7}{324}, \frac{7}{54}, -\frac{35}{162}, \frac{7}{27}, \frac{49}{324}, -\frac{7}{36}, \frac{7}{162}, \frac{91}{324}, -\frac{14}{81})$ $+ \frac{7}{162}\sqrt{273}e^2 \otimes e_9$	{145789, 4679}
952:453	$0, 0, 0, 0, \frac{112}{2927}\sqrt{14}e^{12}, \frac{112}{2927}\sqrt{51}e^{13}, \frac{56}{2927}\sqrt{745}e^{34},$ $\frac{112}{2927}\sqrt{122}e^{14} + \frac{56}{2927}\sqrt{813}e^{25}, \frac{56}{2927}\sqrt{355}e^{16} + \frac{168}{2927}\sqrt{114}e^{37}$	$(\frac{112}{2927}, -\frac{364}{2927}, \frac{952}{2927}, -\frac{728}{2927}, -\frac{252}{2927}, \frac{1064}{2927}, \frac{224}{2927}, -\frac{616}{2927}, \frac{1176}{2927})$ $+ \frac{56}{2927}\sqrt{2422}e^3 \otimes e_8$	{23567, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:454	$0, 0, 0, 0, \frac{34}{427}\sqrt{7}e^{12}, \frac{34}{427}\sqrt{23}e^{13}, \frac{17}{427}\sqrt{114}e^{34},$ $\frac{34}{427}\sqrt{53}e^{15} + \frac{136}{427}\sqrt{6}e^{24}, \frac{17}{61}\sqrt{6}e^{16} + \frac{34}{427}\sqrt{39}e^{37}$	$(-\frac{34}{427}, \frac{221}{427}, 0, -\frac{68}{427}, \frac{187}{427}, -\frac{34}{427}, -\frac{68}{427}, \frac{153}{427}, -\frac{68}{427})$ $+ \frac{204}{427}\sqrt{5}e^2 \otimes e_9$	{1246, 245}
952:454	$0, 0, 0, 0, \frac{110}{499}\sqrt{3}e^{12}, \frac{10}{499}\sqrt{397}e^{13}, \frac{15}{499}\sqrt{138}e^{34},$ $\frac{10}{499}\sqrt{431}e^{15} + \frac{10}{499}\sqrt{285}e^{24}, \frac{5}{499}\sqrt{1446}e^{16} + \frac{40}{499}\sqrt{21}e^{37}$	$(\frac{20}{499}, -\frac{65}{499}, 0, \frac{40}{499}, -\frac{45}{499}, \frac{20}{499}, \frac{40}{499}, -\frac{25}{499}, \frac{40}{499})$ $+ \frac{20}{499}\sqrt{51}e^3 \otimes e_8$	{134569, 349}
952:455	$0, 0, 0, 0, \frac{19}{433}\sqrt{130}e^{12}, -\frac{19}{433}\sqrt{265}e^{13}, \frac{19}{433}\sqrt{265}e^{14},$ $\frac{190}{433}\sqrt{2}e^{15} + \frac{38}{433}\sqrt{66}e^{34}, \frac{19}{433}\sqrt{101}e^{36} + \frac{19}{433}\sqrt{101}e^{47}$	$(\frac{133}{433}, -\frac{228}{433}, \frac{19}{433}, \frac{19}{433}, -\frac{95}{433}, \frac{152}{433}, \frac{152}{433}, \frac{38}{433}, \frac{171}{433})$ $+ \frac{209}{433}\sqrt{6}e^1 \otimes e_2$	{13489, 16789, 236, 13489, 16789, 236}
952:455	$0, 0, 0, 0, \frac{19}{433}\sqrt{130}e^{12}, \frac{19}{433}\sqrt{265}e^{13}, \frac{19}{433}\sqrt{265}e^{14},$ $\frac{190}{433}\sqrt{2}e^{15} + \frac{38}{433}\sqrt{66}e^{34}, \frac{19}{433}\sqrt{101}e^{36} + \frac{19}{433}\sqrt{101}e^{47}$	$(\frac{133}{433}, -\frac{228}{433}, \frac{19}{433}, \frac{19}{433}, -\frac{95}{433}, \frac{152}{433}, \frac{152}{433}, \frac{38}{433}, \frac{171}{433})$ $+ \frac{209}{433}\sqrt{6}e^1 \otimes e_2$	{13489, 16789, 236, 13489, 16789, 236}
952:455	$0, 0, 0, 0, \frac{9}{113}\sqrt{82}e^{12}, -\frac{9}{113}\sqrt{10}e^{13}, \frac{9}{113}\sqrt{10}e^{14},$ $\frac{9}{113}\sqrt{31}e^{15} + \frac{9}{113}\sqrt{34}e^{34}, \frac{9}{113}\sqrt{65}e^{36} + \frac{9}{113}\sqrt{65}e^{47}$	$(-\frac{27}{113}, \frac{72}{113}, \frac{9}{113}, \frac{9}{113}, \frac{45}{113}, -\frac{18}{113}, -\frac{18}{113}, \frac{18}{113}, -\frac{9}{113})$ $+ \frac{9}{113}\sqrt{187}e^2 \otimes e_9$	{1234678, 128, 379, 1234678, 128, 379}
952:455	$0, 0, 0, 0, \frac{9}{113}\sqrt{82}e^{12}, \frac{9}{113}\sqrt{10}e^{13}, \frac{9}{113}\sqrt{10}e^{14},$ $\frac{9}{113}\sqrt{31}e^{15} + \frac{9}{113}\sqrt{34}e^{34}, \frac{9}{113}\sqrt{65}e^{36} + \frac{9}{113}\sqrt{65}e^{47}$	$(-\frac{27}{113}, \frac{72}{113}, \frac{9}{113}, \frac{9}{113}, \frac{45}{113}, -\frac{18}{113}, -\frac{18}{113}, \frac{18}{113}, -\frac{9}{113})$ $+ \frac{9}{113}\sqrt{187}e^2 \otimes e_9$	{1234678, 128, 379, 1234678, 128, 379}
952:457	$0, 0, 0, 0, \frac{1}{44}\sqrt{286}e^{12}, -\frac{1}{44}\sqrt{55}e^{13}, \frac{1}{44}\sqrt{55}e^{14},$ $\frac{1}{22}\sqrt{110}e^{25} + \frac{1}{11}\sqrt{22}e^{34}, \frac{1}{44}\sqrt{330}e^{36} + \frac{1}{44}\sqrt{330}e^{47}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+ \frac{1}{44}\sqrt{814}e^2 \otimes e_9$	{134589, 156789, 2356, 134589, 156789, 2356}
952:457	$0, 0, 0, 0, \frac{1}{44}\sqrt{286}e^{12}, \frac{1}{44}\sqrt{55}e^{13}, \frac{1}{44}\sqrt{55}e^{14},$ $\frac{1}{22}\sqrt{110}e^{25} + \frac{1}{11}\sqrt{22}e^{34}, \frac{1}{44}\sqrt{330}e^{36} + \frac{1}{44}\sqrt{330}e^{47}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+ \frac{1}{44}\sqrt{814}e^2 \otimes e_9$	{134589, 156789, 2356, 134589, 156789, 2356}
952:460	$0, 0, 0, 0, \frac{4}{31}\sqrt{6}e^{12}, -\frac{8}{31}\sqrt{6}e^{13}, \frac{4}{31}\sqrt{21}e^{34},$ $\frac{4}{31}\sqrt{6}e^{14} + \frac{4}{31}\sqrt{29}e^{25}, \frac{4}{31}\sqrt{5}e^{16} + \frac{4}{31}\sqrt{2}e^{47}$	$(-\frac{4}{31}, -\frac{2}{31}, \frac{16}{31}, -\frac{4}{31}, -\frac{6}{31}, \frac{12}{31}, \frac{12}{31}, -\frac{8}{31}, \frac{8}{31})$ $+ \frac{8}{31}\sqrt{19}e^3 \otimes e_8$	{123459, 1349, 2478, 4578, 123459, 1349, 2478, 4578}
952:460	$0, 0, 0, 0, \frac{4}{31}\sqrt{6}e^{12}, \frac{8}{31}\sqrt{6}e^{13}, \frac{4}{31}\sqrt{21}e^{34},$ $\frac{4}{31}\sqrt{6}e^{14} + \frac{4}{31}\sqrt{29}e^{25}, \frac{4}{31}\sqrt{5}e^{16} + \frac{4}{31}\sqrt{2}e^{47}$	$(-\frac{4}{31}, -\frac{2}{31}, \frac{16}{31}, -\frac{4}{31}, -\frac{6}{31}, \frac{12}{31}, \frac{12}{31}, -\frac{8}{31}, \frac{8}{31})$ $+ \frac{8}{31}\sqrt{19}e^3 \otimes e_8$	{123459, 1349, 2478, 4578, 123459, 1349, 2478, 4578}
952:460	$0, 0, 0, 0, \frac{8}{863}\sqrt{386}e^{12}, -\frac{8}{863}\sqrt{15}e^{13}, \frac{32}{863}\sqrt{13}e^{34},$ $\frac{16}{863}\sqrt{127}e^{14} + \frac{8}{863}\sqrt{457}e^{25}, \frac{8}{863}\sqrt{22}e^{16} + \frac{8}{863}\sqrt{391}e^{47}$	$(\frac{40}{863}, \frac{20}{863}, -\frac{92}{863}, \frac{40}{863}, \frac{60}{863}, -\frac{52}{863}, -\frac{52}{863}, \frac{80}{863}, -\frac{12}{863})$ $+ \frac{16}{863}\sqrt{183}e^2 \otimes e_9$	{124678, 134589, 2457, 3469, 124678, 134589, 2457, 3469}
952:460	$0, 0, 0, 0, \frac{8}{863}\sqrt{386}e^{12}, \frac{8}{863}\sqrt{15}e^{13}, \frac{32}{863}\sqrt{13}e^{34},$ $\frac{16}{863}\sqrt{127}e^{14} + \frac{8}{863}\sqrt{457}e^{25}, \frac{8}{863}\sqrt{22}e^{16} + \frac{8}{863}\sqrt{391}e^{47}$	$(\frac{40}{863}, \frac{20}{863}, -\frac{92}{863}, \frac{40}{863}, \frac{60}{863}, -\frac{52}{863}, -\frac{52}{863}, \frac{80}{863}, -\frac{12}{863})$ $+ \frac{16}{863}\sqrt{183}e^2 \otimes e_9$	{124678, 134589, 2457, 3469, 124678, 134589, 2457, 3469}
952:461	$0, 0, 0, 0, \frac{14}{13}e^{12}, -\frac{1}{13}\sqrt{210}e^{13}, \frac{2}{13}\sqrt{42}e^{34},$ $\frac{6}{13}\sqrt{7}e^{15} + \frac{2}{13}\sqrt{77}e^{24}, \frac{6}{13}\sqrt{7}e^{16} + \frac{3}{13}\sqrt{14}e^{47}$	$(0, \frac{5}{13}, -\frac{2}{13}, 0, \frac{5}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{42}e^2 \otimes e_9$	{125678, 139, 278, 3569, 125678, 139, 278, 3569}
952:461	$0, 0, 0, 0, \frac{14}{13}e^{12}, \frac{1}{13}\sqrt{210}e^{13}, \frac{2}{13}\sqrt{42}e^{34},$ $\frac{6}{13}\sqrt{7}e^{15} + \frac{2}{13}\sqrt{77}e^{24}, \frac{6}{13}\sqrt{7}e^{16} + \frac{3}{13}\sqrt{14}e^{47}$	$(0, \frac{5}{13}, -\frac{2}{13}, 0, \frac{5}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{42}e^2 \otimes e_9$	{125678, 139, 278, 3569, 125678, 139, 278, 3569}
952:461	$0, 0, 0, 0, \frac{6}{13}\sqrt{7}e^{12}, -\frac{6}{13}\sqrt{7}e^{13}, \frac{3}{13}\sqrt{14}e^{34},$ $\frac{14}{13}e^{15} + \frac{2}{13}\sqrt{77}e^{24}, \frac{1}{13}\sqrt{210}e^{16} + \frac{2}{13}\sqrt{42}e^{47}$	$(0, -\frac{3}{13}, \frac{4}{13}, 0, -\frac{3}{13}, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{42}e^3 \otimes e_8$	{125678, 139, 278, 3569, 125678, 139, 278, 3569}
952:461	$0, 0, 0, 0, \frac{6}{13}\sqrt{7}e^{12}, \frac{6}{13}\sqrt{7}e^{13}, \frac{3}{13}\sqrt{14}e^{34},$ $\frac{14}{13}e^{15} + \frac{2}{13}\sqrt{77}e^{24}, \frac{1}{13}\sqrt{210}e^{16} + \frac{2}{13}\sqrt{42}e^{47}$	$(0, -\frac{3}{13}, \frac{4}{13}, 0, -\frac{3}{13}, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{42}e^3 \otimes e_8$	{125678, 139, 278, 3569, 125678, 139, 278, 3569}
952:464	$0, 0, 0, 0, \frac{28}{3221}\sqrt{1610}e^{12}, \frac{28}{3221}\sqrt{39}e^{13}, \frac{56}{3221}\sqrt{142}e^{34},$ $\frac{28}{3221}\sqrt{1570}e^{14} + \frac{28}{3221}\sqrt{1597}e^{25}, \frac{168}{3221}\sqrt{11}e^{36} + \frac{28}{3221}\sqrt{1465}e^{47}$	$(\frac{490}{3221}, \frac{14}{3221}, -\frac{434}{3221}, \frac{28}{3221}, \frac{504}{3221}, \frac{56}{3221}, -\frac{406}{3221}, \frac{518}{3221}, -\frac{378}{3221})$ $+ \frac{28}{3221}\sqrt{2730}e^2 \otimes e_9$	{12478, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:465	$0, 0, 0, 0, \frac{46}{781}\sqrt{74}e^{12}, \frac{276}{781}e^{13}, \frac{23}{781}\sqrt{334}e^{34},$ $\frac{46}{781}\sqrt{35}e^{15} + \frac{23}{781}\sqrt{530}e^{24}, \frac{23}{781}\sqrt{582}e^{36} + \frac{115}{781}\sqrt{6}e^{47}$	$(-\frac{23}{781}, \frac{368}{781}, -\frac{69}{781}, -\frac{46}{781}, \frac{345}{781}, -\frac{92}{781}, -\frac{115}{781}, \frac{322}{781}, -\frac{161}{781})$ $+ \frac{46}{781}\sqrt{327}e^2 \otimes e_9$	{145689, 234567}
952:465	$0, 0, 0, 0, \frac{14}{181}\sqrt{39}e^{12}, \frac{14}{181}\sqrt{57}e^{13}, \frac{7}{181}\sqrt{118}e^{34},$ $\frac{28}{181}\sqrt{3}e^{15} + \frac{7}{181}\sqrt{278}e^{24}, \frac{7}{181}\sqrt{210}e^{36} + \frac{35}{181}\sqrt{6}e^{47}$	$(\frac{7}{181}, -\frac{42}{181}, \frac{21}{181}, \frac{14}{181}, -\frac{35}{181}, \frac{28}{181}, \frac{35}{181}, -\frac{28}{181}, \frac{49}{181})$ $+ \frac{126}{181}e^3 \otimes e_8$	{139, 278}
952:465	$0, 0, 0, 0, \frac{48}{551}\sqrt{15}e^{12}, \frac{24}{551}\sqrt{15}e^{13}, \frac{6}{551}\sqrt{453}e^{34},$ $\frac{48}{551}\sqrt{15}e^{15} + \frac{6}{551}\sqrt{987}e^{24}, \frac{12}{551}\sqrt{30}e^{36} + \frac{12}{551}\sqrt{210}e^{47}$	$(-\frac{9}{551}, \frac{93}{551}, -\frac{27}{551}, -\frac{18}{551}, \frac{84}{551}, -\frac{36}{551}, -\frac{45}{551}, \frac{75}{551}, -\frac{63}{551})$ $- \frac{6}{551}\sqrt{1401}e^1 \otimes e_9$	{12478, 1457, 234589, 349}
952:465	$0, 0, 0, 0, \frac{48}{551}\sqrt{15}e^{12}, \frac{24}{551}\sqrt{15}e^{13}, \frac{6}{551}\sqrt{453}e^{34},$ $\frac{48}{551}\sqrt{15}e^{15} + \frac{6}{551}\sqrt{987}e^{24}, \frac{12}{551}\sqrt{30}e^{36} + \frac{12}{551}\sqrt{210}e^{47}$	$(-\frac{9}{551}, \frac{93}{551}, -\frac{27}{551}, -\frac{18}{551}, \frac{84}{551}, -\frac{36}{551}, -\frac{45}{551}, \frac{75}{551}, -\frac{63}{551})$ $+ \frac{6}{551}\sqrt{1401}e^1 \otimes e_9$	{12478, 1457, 234589, 349}
952:466	$0, 0, 0, 0, -\frac{19}{337}\sqrt{13}e^{12}, \frac{19}{337}\sqrt{95}e^{13}, \frac{114}{337}\sqrt{5}e^{14}, \frac{114}{337}\sqrt{6}e^{15},$ $\frac{57}{337}e^{17} + \frac{95}{337}\sqrt{2}e^{25} + \frac{19}{337}\sqrt{58}e^{36}$	$(-\frac{95}{337}, \frac{76}{337}, \frac{76}{337}, \frac{247}{337}, -\frac{19}{337}, -\frac{19}{337}, \frac{152}{337}, -\frac{114}{337}, \frac{57}{337})$ $+ \frac{19}{337}\sqrt{559}e^4 \otimes e_8$	{13456, 145, 23589, 25689, 13456, 145, 23589, 25689}
952:466	$0, 0, 0, 0, \frac{19}{337}\sqrt{13}e^{12}, \frac{19}{337}\sqrt{95}e^{13}, \frac{114}{337}\sqrt{5}e^{14}, \frac{114}{337}\sqrt{6}e^{15},$ $\frac{57}{337}e^{17} + \frac{95}{337}\sqrt{2}e^{25} + \frac{19}{337}\sqrt{58}e^{36}$	$(-\frac{95}{337}, \frac{76}{337}, \frac{76}{337}, \frac{247}{337}, -\frac{19}{337}, -\frac{19}{337}, \frac{152}{337}, -\frac{114}{337}, \frac{57}{337})$ $+ \frac{19}{337}\sqrt{559}e^4 \otimes e_8$	{13456, 145, 23589, 25689, 13456, 145, 23589, 25689}
952:469	$0, 0, 0, 0, \frac{28}{2531}\sqrt{11}e^{12}, \frac{28}{2531}\sqrt{1219}e^{13}, \frac{28}{2531}\sqrt{411}e^{24},$ $\frac{196}{2531}\sqrt{31}e^{25}, \frac{28}{2531}\sqrt{1115}e^{15} + \frac{280}{2531}\sqrt{5}e^{27} + \frac{28}{2531}\sqrt{1382}e^{36}$	$(\frac{182}{2531}, -\frac{322}{2531}, -\frac{70}{2531}, \frac{686}{2531}, -\frac{140}{2531}, \frac{112}{2531}, \frac{364}{2531}, -\frac{462}{2531}, \frac{42}{2531})$ $+ \frac{112}{2531}\sqrt{141}e^3 \otimes e_8$	{1234579, 578}
952:470	$0, 0, 0, 0, \frac{30}{109}\sqrt{2}e^{12}, \frac{10}{109}\sqrt{22}e^{13}, \frac{5}{109}\sqrt{102}e^{34}, \frac{5}{109}\sqrt{154}e^{15},$ $\frac{20}{109}\sqrt{6}e^{16} + \frac{10}{109}\sqrt{15}e^{25} + \frac{5}{109}\sqrt{154}e^{37}$	$(-\frac{5}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{35}{109}, \frac{5}{109}, \frac{20}{109}, -\frac{10}{109}, 0, \frac{15}{109})$ $+ \frac{5}{109}\sqrt{186}e^3 \otimes e_8$	{128, 349}
952:470	$0, 0, 0, 0, \frac{34}{949}\sqrt{219}e^{12}, \frac{85}{949}\sqrt{58}e^{13}, \frac{102}{949}\sqrt{31}e^{34}, \frac{17}{949}\sqrt{1582}e^{15},$ $\frac{51}{949}\sqrt{102}e^{16} + \frac{68}{949}\sqrt{30}e^{25} + \frac{34}{949}\sqrt{259}e^{37}$	$(\frac{85}{949}, -\frac{68}{949}, -\frac{17}{949}, \frac{391}{949}, \frac{17}{949}, -\frac{136}{949}, \frac{170}{949}, \frac{102}{949}, -\frac{51}{949})$ $+ \frac{51}{949}\sqrt{182}e^4 \otimes e_8$	{128, 349}
952:470	$0, 0, 0, 0, \frac{192}{1817}\sqrt{10}e^{12}, \frac{64}{1817}\sqrt{551}e^{13}, \frac{576}{1817}e^{34}, \frac{128}{1817}\sqrt{21}e^{15},$ $\frac{192}{1817}\sqrt{3}e^{16} + \frac{64}{1817}\sqrt{2}e^{25} + \frac{64}{1817}\sqrt{419}e^{37}$	$(-\frac{96}{1817}, \frac{416}{1817}, \frac{928}{1817}, -\frac{1120}{1817}, \frac{320}{1817}, \frac{832}{1817}, -\frac{192}{1817}, \frac{224}{1817}, \frac{32}{1817})$ $+ \frac{64}{1817}\sqrt{1509}e^3 \otimes e_4$	{123589, 139, 248, 45}
952:470	$0, 0, 0, 0, \frac{192}{1817}\sqrt{10}e^{12}, \frac{64}{1817}\sqrt{551}e^{13}, \frac{576}{1817}e^{34}, \frac{128}{1817}\sqrt{21}e^{15},$ $\frac{192}{1817}\sqrt{3}e^{16} + \frac{64}{1817}\sqrt{2}e^{25} + \frac{64}{1817}\sqrt{419}e^{37}$	$(-\frac{96}{1817}, \frac{416}{1817}, \frac{928}{1817}, -\frac{1120}{1817}, \frac{320}{1817}, \frac{832}{1817}, -\frac{192}{1817}, \frac{224}{1817}, \frac{32}{1817})$ $- \frac{64}{1817}\sqrt{1509}e^3 \otimes e_4$	{123589, 139, 248, 45}
952:474	$0, 0, 0, 0, \frac{40}{917}\sqrt{37}e^{12}, -\frac{20}{917}\sqrt{482}e^{13}, \frac{20}{917}\sqrt{85}e^{14}, \frac{20}{917}\sqrt{461}e^{25},$ $\frac{20}{917}\sqrt{466}e^{15} + \frac{20}{917}\sqrt{445}e^{36} + \frac{80}{917}\sqrt{3}e^{47}$	$(\frac{170}{917}, -\frac{190}{917}, -\frac{10}{917}, -\frac{10}{917}, -\frac{20}{917}, \frac{160}{917}, \frac{160}{917}, -\frac{30}{917}, \frac{150}{917})$ $+ \frac{20}{917}\sqrt{794}e^3 \otimes e_8$	{123459, 123579, 4578, 58, 123459, 123579, 4578, 58}
952:474	$0, 0, 0, 0, \frac{40}{917}\sqrt{37}e^{12}, \frac{20}{917}\sqrt{482}e^{13}, \frac{20}{917}\sqrt{85}e^{14}, \frac{20}{917}\sqrt{461}e^{25},$ $\frac{20}{917}\sqrt{466}e^{15} + \frac{20}{917}\sqrt{445}e^{36} + \frac{80}{917}\sqrt{3}e^{47}$	$(\frac{170}{917}, -\frac{190}{917}, -\frac{10}{917}, -\frac{10}{917}, -\frac{20}{917}, \frac{160}{917}, \frac{160}{917}, -\frac{30}{917}, \frac{150}{917})$ $+ \frac{20}{917}\sqrt{794}e^3 \otimes e_8$	{123459, 123579, 4578, 58, 123459, 123579, 4578, 58}
952:480	$0, 0, 0, 0, \frac{1}{129}\sqrt{258}e^{12}, -\frac{1}{43}\sqrt{41}e^{13}, \frac{1}{129}\sqrt{381}e^{34}, \frac{2}{129}\sqrt{138}e^{15},$ $\frac{1}{129}\sqrt{321}e^{16} + \frac{8}{129}\sqrt{3}e^{25} + \frac{1}{129}\sqrt{429}e^{47}$	$(-\frac{2}{43}, \frac{1}{43}, \frac{4}{43}, -\frac{2}{43}, -\frac{1}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{690}e^4 \otimes e_8$	{128, 1457, 235789, 349, 128, 1457, 235789, 349}
952:480	$0, 0, 0, 0, \frac{1}{129}\sqrt{258}e^{12}, \frac{1}{43}\sqrt{41}e^{13}, \frac{1}{129}\sqrt{381}e^{34}, \frac{2}{129}\sqrt{138}e^{15},$ $\frac{1}{129}\sqrt{321}e^{16} + \frac{8}{129}\sqrt{3}e^{25} + \frac{1}{129}\sqrt{429}e^{47}$	$(-\frac{2}{43}, \frac{1}{43}, \frac{4}{43}, -\frac{2}{43}, -\frac{1}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{690}e^4 \otimes e_8$	{128, 1457, 235789, 349, 128, 1457, 235789, 349}
952:484	$0, 0, 0, 0, \frac{56}{3455}\sqrt{254}e^{12}, \frac{56}{3455}\sqrt{235}e^{13}, \frac{56}{691}\sqrt{58}e^{34},$ $\frac{56}{3455}\sqrt{1309}e^{25}, \frac{112}{3455}\sqrt{118}e^{15} + \frac{112}{3455}\sqrt{165}e^{36} + \frac{56}{3455}\sqrt{1529}e^{47}$	$(\frac{196}{691}, -\frac{1036}{3455}, -\frac{28}{3455}, \frac{476}{3455}, -\frac{56}{3455}, \frac{952}{3455}, \frac{448}{3455}, -\frac{1092}{3455}, \frac{924}{3455})$ $+ \frac{224}{3455}\sqrt{183}e^4 \otimes e_8$	{1356789, 24567}
952:486	$0, 0, 0, 0, \frac{32}{1283}\sqrt{973}e^{12}, \frac{96}{1283}\sqrt{91}e^{13}, \frac{96}{1283}\sqrt{67}e^{24},$ $\frac{32}{1283}\sqrt{670}e^{16} + \frac{32}{1283}\sqrt{633}e^{25}, \frac{32}{1283}\sqrt{201}e^{15} + \frac{32}{1283}\sqrt{1030}e^{27}$	$(-\frac{112}{1283}, \frac{176}{1283}, \frac{464}{1283}, -\frac{400}{1283}, \frac{64}{1283}, \frac{352}{1283}, -\frac{224}{1283}, \frac{240}{1283}, -\frac{48}{1283})$ $+ \frac{192}{1283}\sqrt{30}e^3 \otimes e_9$	{138, 249}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:487	$0, 0, 0, 0, \frac{4}{27}\sqrt{3}e^{12}, \frac{4}{9}e^{13}, \frac{4}{9}\sqrt{3}e^{14},$ $\frac{8}{27}\sqrt{3}e^{15} + \frac{4}{27}\sqrt{23}e^{36}, \frac{4}{27}\sqrt{5}e^{17} + \frac{4}{27}e^{25}$	$(-\frac{2}{9}, \frac{2}{9}, 0, \frac{2}{3}, 0, -\frac{2}{9}, \frac{4}{9}, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{4}{27}\sqrt{67}e^4 \otimes e_8$	{1234569, 12459, 358, 568}
952:487	$0, 0, 0, 0, \frac{4}{27}\sqrt{3}e^{12}, \frac{4}{9}e^{13}, \frac{4}{9}\sqrt{3}e^{14},$ $\frac{8}{27}\sqrt{3}e^{15} + \frac{4}{27}\sqrt{23}e^{36}, \frac{4}{27}\sqrt{5}e^{17} + \frac{4}{27}e^{25}$	$(-\frac{2}{9}, \frac{2}{9}, 0, \frac{2}{3}, 0, -\frac{2}{9}, \frac{4}{9}, -\frac{2}{9}, \frac{2}{9})$ $- \frac{4}{27}\sqrt{67}e^4 \otimes e_8$	{1234569, 12459, 358, 568}
952:487	$0, 0, 0, 0, \frac{64}{2891}\sqrt{13}e^{12}, \frac{8}{2891}\sqrt{1322}e^{13}, \frac{8}{2891}\sqrt{535}e^{14},$ $\frac{16}{2891}\sqrt{439}e^{15} + \frac{8}{2891}\sqrt{1549}e^{36}, \frac{8}{2891}\sqrt{978}e^{17} + \frac{8}{2891}\sqrt{1223}e^{25}$	$(\frac{92}{2891}, -\frac{52}{2891}, \frac{20}{2891}, -\frac{4}{59}, \frac{40}{2891}, \frac{16}{413}, -\frac{104}{2891}, \frac{132}{2891}, -\frac{12}{2891})$ $+ \frac{16}{2891}\sqrt{638}e^3 \otimes e_9$	{123578, 4579}
952:489	$0, 0, 0, 0, -\frac{1}{60}\sqrt{282}e^{12}, \frac{7}{60}\sqrt{6}e^{13}, \frac{1}{15}\sqrt{15}e^{24},$ $\frac{1}{20}\sqrt{38}e^{25} + \frac{1}{60}\sqrt{354}e^{36}, \frac{1}{30}\sqrt{30}e^{15} + \frac{1}{30}\sqrt{102}e^{27}$	$(-\frac{1}{20}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{5}, \frac{1}{20}, \frac{1}{20}, -\frac{1}{10}, \frac{3}{20}, 0)$ $+ \frac{1}{15}\sqrt{39}e^3 \otimes e_9$	{123578, 146789, 2367, 4579, 123578, 146789, 2367, 4579}
952:489	$0, 0, 0, 0, \frac{1}{60}\sqrt{282}e^{12}, \frac{7}{60}\sqrt{6}e^{13}, \frac{1}{15}\sqrt{15}e^{24},$ $\frac{1}{20}\sqrt{38}e^{25} + \frac{1}{60}\sqrt{354}e^{36}, \frac{1}{30}\sqrt{30}e^{15} + \frac{1}{30}\sqrt{102}e^{27}$	$(-\frac{1}{20}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{5}, \frac{1}{20}, \frac{1}{20}, -\frac{1}{10}, \frac{3}{20}, 0)$ $+ \frac{1}{15}\sqrt{39}e^3 \otimes e_9$	{123578, 146789, 2367, 4579, 123578, 146789, 2367, 4579}
952:491	$0, 0, 0, 0, \frac{14}{341}\sqrt{30}e^{12}, \frac{70}{341}e^{13}, \frac{21}{341}\sqrt{130}e^{34},$ $\frac{7}{341}\sqrt{1045}e^{16} + \frac{1}{341}\sqrt{985}e^{25}, \frac{1}{341}\sqrt{590}e^{15} + \frac{35}{341}\sqrt{17}e^{37}$	$(\frac{35}{341}, -\frac{28}{341}, -\frac{91}{341}, \frac{224}{341}, \frac{7}{341}, -\frac{56}{341}, \frac{133}{341}, -\frac{21}{341}, \frac{42}{341})$ $+ \frac{35}{341}\sqrt{113}e^4 \otimes e_8$	{1234569, 568}
952:491	$0, 0, 0, 0, \frac{1}{10}\sqrt{30}e^{16} + \frac{1}{20}\sqrt{70}e^{25}, \frac{1}{20}\sqrt{310}e^{13}, \frac{1}{10}\sqrt{15}e^{34},$ $\frac{1}{20}\sqrt{70}e^{25} + \frac{1}{20}\sqrt{2}e^{15} + \frac{1}{20}\sqrt{230}e^{37}$	$(0, \frac{1}{5}, \frac{2}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, \frac{2}{5}, \frac{1}{5})$ $+ \frac{1}{20}\sqrt{670}e^3 \otimes e_4$	{146, 23689}
952:492	$0, 0, 0, 0, \frac{4}{233}\sqrt{402}e^{12}, \frac{16}{233}\sqrt{77}e^{13}, \frac{64}{233}\sqrt{3}e^{34},$ $\frac{8}{233}\sqrt{237}e^{15} + \frac{12}{233}\sqrt{122}e^{36}, \frac{24}{233}\sqrt{15}e^{25} + \frac{4}{233}\sqrt{646}e^{37}$	$(\frac{36}{233}, -\frac{28}{233}, \frac{4}{233}, -\frac{28}{233}, \frac{8}{233}, \frac{40}{233}, -\frac{24}{233}, \frac{44}{233}, -\frac{20}{233})$ $+ \frac{4}{233}\sqrt{906}e^3 \otimes e_4$	{12358, 459}
952:492	$0, 0, 0, 0, \frac{374}{1169}\sqrt{3}e^{12}, \frac{34}{1169}\sqrt{910}e^{13}, \frac{102}{1169}\sqrt{94}e^{34},$ $\frac{34}{1169}\sqrt{1015}e^{15} + \frac{102}{1169}\sqrt{51}e^{36}, \frac{442}{1169}\sqrt{3}e^{25} + \frac{34}{1169}\sqrt{685}e^{37}$	$(-\frac{289}{1169}, \frac{323}{1169}, \frac{17}{1169}, \frac{323}{1169}, \frac{34}{1169}, -\frac{272}{1169}, \frac{340}{1169}, -\frac{255}{1169}, \frac{51}{167})$ $+ \frac{102}{1169}\sqrt{110}e^4 \otimes e_8$	{123678, 128, 349, 4679}
952:492	$0, 0, 0, 0, \frac{374}{1169}\sqrt{3}e^{12}, \frac{34}{1169}\sqrt{910}e^{13}, \frac{102}{1169}\sqrt{94}e^{34},$ $\frac{34}{1169}\sqrt{1015}e^{15} + \frac{102}{1169}\sqrt{51}e^{36}, \frac{442}{1169}\sqrt{3}e^{25} + \frac{34}{1169}\sqrt{685}e^{37}$	$(-\frac{289}{1169}, \frac{323}{1169}, \frac{17}{1169}, \frac{323}{1169}, \frac{34}{1169}, -\frac{272}{1169}, \frac{340}{1169}, -\frac{255}{1169}, \frac{51}{167})$ $- \frac{102}{1169}\sqrt{110}e^4 \otimes e_8$	{123678, 128, 349, 4679}
952:492	$0, 0, 0, 0, \frac{30}{137}\sqrt{7}e^{12}, \frac{20}{137}\sqrt{13}e^{13}, \frac{40}{137}\sqrt{3}e^{34},$ $\frac{10}{137}\sqrt{91}e^{15} + \frac{10}{137}\sqrt{69}e^{36}, \frac{10}{137}\sqrt{15}e^{25} + \frac{10}{137}\sqrt{91}e^{37}$	$(\frac{35}{137}, -\frac{25}{137}, \frac{5}{137}, -\frac{25}{137}, \frac{10}{137}, \frac{40}{137}, -\frac{20}{137}, \frac{45}{137}, -\frac{15}{137})$ $- \frac{10}{137}\sqrt{114}e^1 \otimes e_9$	{123678, 128, 349, 4679}
952:492	$0, 0, 0, 0, \frac{30}{137}\sqrt{7}e^{12}, \frac{20}{137}\sqrt{13}e^{13}, \frac{40}{137}\sqrt{3}e^{34},$ $\frac{10}{137}\sqrt{91}e^{15} + \frac{10}{137}\sqrt{69}e^{36}, \frac{10}{137}\sqrt{15}e^{25} + \frac{10}{137}\sqrt{91}e^{37}$	$(\frac{35}{137}, -\frac{25}{137}, \frac{5}{137}, -\frac{25}{137}, \frac{10}{137}, \frac{40}{137}, -\frac{20}{137}, \frac{45}{137}, -\frac{15}{137})$ $+ \frac{10}{137}\sqrt{114}e^1 \otimes e_9$	{123678, 128, 349, 4679}
952:493	$0, 0, 0, 0, -\frac{12}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{19}e^{13}, \frac{8}{41}\sqrt{10}e^{34},$ $\frac{8}{41}\sqrt{2}e^{25} + \frac{4}{41}\sqrt{66}e^{36}, \frac{8}{41}\sqrt{5}e^{15} + \frac{4}{41}\sqrt{14}e^{37}$	$(-\frac{4}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{20}{41}, \frac{8}{41}, \frac{8}{41}, -\frac{8}{41}, \frac{20}{41}, \frac{4}{41})$ $+ \frac{4}{41}\sqrt{142}e^3 \otimes e_4$	{123589, 1468, 2369, 45, 123589, 1468, 2369, 45}
952:493	$0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{19}e^{13}, \frac{8}{41}\sqrt{10}e^{34},$ $\frac{8}{41}\sqrt{2}e^{25} + \frac{4}{41}\sqrt{66}e^{36}, \frac{8}{41}\sqrt{5}e^{15} + \frac{4}{41}\sqrt{14}e^{37}$	$(-\frac{4}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{20}{41}, \frac{8}{41}, \frac{8}{41}, -\frac{8}{41}, \frac{20}{41}, \frac{4}{41})$ $+ \frac{4}{41}\sqrt{142}e^3 \otimes e_4$	{123589, 1468, 2369, 45, 123589, 1468, 2369, 45}
952:496	$0, 0, 0, 0, -\frac{16}{251}e^{12}, \frac{64}{251}\sqrt{2}e^{13}, \frac{16}{251}\sqrt{74}e^{14},$ $\frac{16}{251}\sqrt{62}e^{15} + \frac{48}{251}\sqrt{7}e^{36}, \frac{32}{251}\sqrt{10}e^{25} + \frac{16}{251}\sqrt{97}e^{47}$	$(-\frac{64}{251}, \frac{80}{251}, \frac{8}{251}, \frac{80}{251}, \frac{16}{251}, -\frac{56}{251}, \frac{16}{251}, -\frac{48}{251}, \frac{96}{251})$ $+ \frac{32}{251}\sqrt{53}e^4 \otimes e_8$	{1234569, 12459, 358, 568, 1234569, 12459, 358, 568}
952:496	$0, 0, 0, 0, \frac{16}{251}e^{12}, \frac{64}{251}\sqrt{2}e^{13}, \frac{16}{251}\sqrt{74}e^{14},$ $\frac{16}{251}\sqrt{62}e^{15} + \frac{48}{251}\sqrt{7}e^{36}, \frac{32}{251}\sqrt{10}e^{25} + \frac{16}{251}\sqrt{97}e^{47}$	$(-\frac{64}{251}, \frac{80}{251}, \frac{8}{251}, \frac{80}{251}, \frac{16}{251}, -\frac{56}{251}, \frac{16}{251}, -\frac{48}{251}, \frac{96}{251})$ $+ \frac{32}{251}\sqrt{53}e^4 \otimes e_8$	{1234569, 12459, 358, 568, 1234569, 12459, 358, 568}
952:501	$0, 0, 0, 0, \frac{16}{989}\sqrt{105}e^{12}, -\frac{32}{989}\sqrt{127}e^{13}, \frac{32}{989}\sqrt{17}e^{24},$ $\frac{16}{989}\sqrt{430}e^{15} + \frac{16}{989}\sqrt{473}e^{36}, \frac{16}{989}\sqrt{434}e^{25} + \frac{16}{989}\sqrt{185}e^{47}$	$(\frac{152}{989}, -\frac{136}{989}, \frac{8}{989}, \frac{8}{989}, \frac{16}{989}, \frac{160}{989}, -\frac{128}{989}, \frac{168}{989}, -\frac{120}{989})$ $+ \frac{192}{989}\sqrt{6}e^3 \otimes e_9$	{1234578, 12358, 459, 579, 1234578, 12358, 459, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
952:501	$0, 0, 0, 0, \frac{16}{989}\sqrt{105e^{12}}, \frac{32}{989}\sqrt{127e^{13}}, \frac{32}{989}\sqrt{17e^{24}},$ $\frac{16}{989}\sqrt{430e^{15}} + \frac{16}{989}\sqrt{473e^{36}}, \frac{16}{989}\sqrt{434e^{25}} + \frac{16}{989}\sqrt{185e^{47}}$	$(\frac{152}{989}, -\frac{136}{989}, \frac{8}{989}, \frac{8}{989}, \frac{16}{989}, \frac{160}{989}, -\frac{128}{989}, \frac{168}{989}, -\frac{120}{989})$ $+ \frac{192}{989}\sqrt{6e^3} \otimes e_9$	{1234578, 12358, 459, 579, 1234578, 12358, 459, 579}
952:505	$0, 0, 0, 0, \frac{8}{703}\sqrt{430e^{12}}, \frac{40}{703}\sqrt{17e^{13}}, \frac{8}{703}\sqrt{1030e^{34}},$ $\frac{16}{703}\sqrt{345e^{16}} + \frac{8}{703}\sqrt{1165e^{25}}, \frac{32}{703}\sqrt{85e^{15}} + \frac{40}{703}\sqrt{65e^{47}}$	$(\frac{100}{703}, -\frac{44}{703}, -\frac{188}{703}, \frac{172}{703}, \frac{56}{703}, -\frac{88}{703}, -\frac{16}{703}, \frac{12}{703}, \frac{156}{703})$ $+ \frac{80}{703}\sqrt{30e^4} \otimes e_8$	{1467, 236789}
952:506	$0, 0, 0, 0, \frac{16}{1221}\sqrt{573e^{12}}, \frac{320}{1221}\sqrt{3e^{13}}, \frac{32}{1221}\sqrt{402e^{34}},$ $\frac{16}{1221}\sqrt{1938e^{15}} + \frac{16}{1221}\sqrt{39e^{36}}, \frac{16}{1221}\sqrt{110e^{25}} + \frac{16}{1221}\sqrt{1551e^{47}}$	$(-\frac{8}{37}, \frac{104}{407}, \frac{8}{407}, \frac{56}{407}, \frac{16}{407}, -\frac{80}{407}, \frac{64}{407}, -\frac{72}{407}, \frac{120}{407})$ $+ \frac{32}{1221}\sqrt{786e^4} \otimes e_8$	{1457, 235789}
952:507	$0, 0, 0, 0, -\frac{4}{65}\sqrt{14e^{12}}, \frac{4}{65}\sqrt{2e^{13}}, \frac{8}{65}\sqrt{19e^{34}},$ $\frac{4}{65}\sqrt{94e^{25}} + \frac{4}{65}\sqrt{30e^{36}}, \frac{8}{65}\sqrt{13e^{15}} + \frac{8}{65}\sqrt{26e^{47}}$	$(\frac{4}{13}, -\frac{16}{65}, -\frac{16}{65}, \frac{4}{13}, \frac{4}{65}, \frac{4}{65}, \frac{4}{65}, -\frac{12}{65}, \frac{24}{65})$ $+ \frac{24}{65}\sqrt{6e^4} \otimes e_8$	{1268, 135789, 2457, 3469, 1268, 135789, 2457, 3469}
952:507	$0, 0, 0, 0, \frac{4}{65}\sqrt{14e^{12}}, \frac{4}{65}\sqrt{2e^{13}}, \frac{8}{65}\sqrt{19e^{34}},$ $\frac{4}{65}\sqrt{94e^{25}} + \frac{4}{65}\sqrt{30e^{36}}, \frac{8}{65}\sqrt{13e^{15}} + \frac{8}{65}\sqrt{26e^{47}}$	$(\frac{4}{13}, -\frac{16}{65}, -\frac{16}{65}, \frac{4}{13}, \frac{4}{65}, \frac{4}{65}, \frac{4}{65}, -\frac{12}{65}, \frac{24}{65})$ $+ \frac{24}{65}\sqrt{6e^4} \otimes e_8$	{1268, 135789, 2457, 3469, 1268, 135789, 2457, 3469}
951:1	$0, 0, 0, 0, \frac{1}{1301}\sqrt{580830e^{12}}, \frac{5}{1301}\sqrt{10190e^{13}}, \frac{1}{1301}\sqrt{654198e^{23}},$ $\frac{12}{1301}\sqrt{1019e^{34}}, \frac{28}{1301}\sqrt{1019e^{15}}$	$(\frac{499}{1301}, -\frac{376}{1301}, -\frac{144}{1301}, \frac{302}{1301}, \frac{123}{1301}, \frac{355}{1301}, -\frac{520}{1301}, \frac{158}{1301}, \frac{622}{1301})$ $+ \frac{3}{1301}\sqrt{242522e^1} \otimes e_7$	{123489, 1239, 1456, 1568, 24579, 25789, 34678, 367}
951:1	$0, 0, 0, 0, \frac{1}{223}\sqrt{4558e^{12}}, \frac{2}{223}\sqrt{731e^{13}}, \frac{4}{223}\sqrt{258e^{23}}, \frac{1}{223}\sqrt{6794e^{34}},$ $\frac{1}{223}\sqrt{3182e^{15}}$	$(\frac{21}{223}, \frac{17}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{38}{223}, -\frac{22}{223}, -\frac{26}{223}, -\frac{22}{223}, \frac{59}{223})$ $+ \frac{1}{223}\sqrt{10578e^1} \otimes e_8 - \frac{2}{223}\sqrt{1677e^4} \otimes e_6$	{123479, 1269, 1345, 1567, 2356789, 24589, 368, 478}
951:1	$0, 0, 0, 0, \frac{20}{3701}\sqrt{3270e^{12}}, \frac{6}{3701}\sqrt{41747e^{13}}, \frac{2}{3701}\sqrt{75210e^{23}},$ $\frac{4}{3701}\sqrt{125895e^{34}}, \frac{2}{3701}\sqrt{342042e^{15}}$	$(-\frac{528}{3701}, \frac{851}{3701}, -\frac{252}{3701}, \frac{449}{3701}, \frac{323}{3701}, -\frac{780}{3701}, \frac{599}{3701}, \frac{197}{3701}, -\frac{205}{3701})$ $+ \frac{36}{3701}\sqrt{1635e^4} \otimes e_9 + \frac{8}{3701}\sqrt{34989e^2} \otimes e_8$	{1279, 1458, 25679, 468}
951:1	$0, 0, 0, 0, \frac{72}{3401}\sqrt{165e^{12}}, \frac{18}{3401}\sqrt{1995e^{13}}, \frac{72}{3401}\sqrt{235e^{23}},$ $\frac{36}{3401}\sqrt{1270e^{34}}, \frac{18}{3401}\sqrt{3745e^{15}}$	$(-\frac{26}{179}, \frac{657}{3401}, \frac{479}{3401}, -\frac{632}{3401}, \frac{163}{3401}, -\frac{15}{3401}, \frac{1136}{3401}, -\frac{153}{3401}, -\frac{331}{3401})$ $+ \frac{18}{3401}\sqrt{7765e^2} \otimes e_8 + \frac{36}{3401}\sqrt{1830e^3} \otimes e_9$	{1279, 135678, 25679, 378}
951:1	$0, 0, 0, 0, \frac{1}{1211}\sqrt{2638e^{12}}, \frac{1}{1211}\sqrt{962870e^{13}}, \frac{4}{1211}\sqrt{27699e^{23}},$ $\frac{26}{1211}\sqrt{1319e^{34}}, \frac{1}{1211}\sqrt{145090e^{15}}$	$(-\frac{111}{1211}, \frac{367}{1211}, -\frac{335}{1211}, \frac{873}{1211}, \frac{256}{1211}, -\frac{446}{1211}, \frac{32}{1211}, \frac{538}{1211}, \frac{145}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^4} \otimes e_6$	{12347, 126, 13459, 15679, 235678, 2458, 3689, 4789}
951:1	$0, 0, 0, 0, \frac{4}{3877}\sqrt{21245e^{12}}, \frac{2}{3877}\sqrt{799419e^{13}}, \frac{6}{3877}\sqrt{77089e^{23}},$ $\frac{54}{3877}\sqrt{607e^{34}}, \frac{4}{3877}\sqrt{52809e^{15}}$	$(-\frac{556}{3877}, \frac{1037}{3877}, \frac{379}{3877}, -\frac{835}{3877}, \frac{481}{3877}, -\frac{177}{3877}, \frac{1416}{3877}, -\frac{456}{3877}, -\frac{75}{3877})$ $+ \frac{2}{3877}\sqrt{1072569e^2} \otimes e_6 + \frac{2}{3877}\sqrt{1115059e^3} \otimes e_4$	{12359, 146, 2479, 3567}
951:1	$0, 0, 0, 0, \frac{4}{3277}\sqrt{62123e^{12}}, \frac{46}{3277}\sqrt{185e^{13}}, \frac{34}{3277}\sqrt{2553e^{23}},$ $\frac{2}{3277}\sqrt{228919e^{34}}, \frac{2}{3277}\sqrt{72335e^{15}}$	$(-\frac{122}{3277}, \frac{699}{3277}, -\frac{881}{3277}, \frac{1520}{3277}, \frac{577}{3277}, -\frac{1003}{3277}, -\frac{182}{3277}, \frac{639}{3277}, \frac{455}{3277})$ $+ \frac{2}{3277}\sqrt{1207569e^4} \otimes e_7 + \frac{8}{3277}\sqrt{79143e^2} \otimes e_6$	{12349, 14568, 2579, 3678}
951:1	$0, 0, 0, 0, \frac{2}{3605}\sqrt{128535e^{12}}, \frac{2}{3605}\sqrt{459591e^{13}}, \frac{2}{3605}\sqrt{162393e^{23}},$ $\frac{2}{3605}\sqrt{546117e^{34}}, \frac{2}{3605}\sqrt{301587e^{15}}$	$(-\frac{632}{3605}, \frac{323}{3605}, \frac{313}{3605}, \frac{187}{721}, -\frac{3}{35}, -\frac{319}{3605}, \frac{636}{3605}, \frac{1248}{3605}, -\frac{941}{3605})$ $+ \frac{2}{3605}\sqrt{1127973e^3} \otimes e_9 + \frac{2}{3605}\sqrt{895983e^4} \otimes e_6$	{12345, 169, 2368, 4589}
951:1	$0, 0, 0, 0, \frac{1}{365}\sqrt{21470e^{12}}, \frac{4}{365}\sqrt{226e^{13}}, \frac{6}{365}\sqrt{113e^{23}}, \frac{1}{365}\sqrt{30058e^{34}},$ $\frac{1}{365}\sqrt{20114e^{15}}$	$(\frac{83}{365}, -\frac{33}{365}, -\frac{11}{73}, \frac{5}{73}, \frac{10}{73}, \frac{28}{365}, -\frac{88}{365}, -\frac{6}{73}, \frac{133}{365})$ $+ \frac{2}{365}\sqrt{6441e^4} \otimes e_7 + \frac{3}{365}\sqrt{5198e^1} \otimes e_8$	{13456, 157, 235789, 245689}
951:1	$0, 0, 0, 0, \frac{3}{433}\sqrt{8702e^{12}}, \frac{4}{433}\sqrt{458e^{13}}, \frac{8}{433}\sqrt{687e^{23}}, \frac{3}{433}\sqrt{8702e^{34}},$ $\frac{1}{433}\sqrt{63662e^{15}}$	$(\frac{107}{433}, -\frac{5}{433}, -\frac{21}{433}, -\frac{101}{433}, \frac{102}{433}, \frac{86}{433}, -\frac{26}{433}, -\frac{122}{433}, \frac{209}{433})$ $+ \frac{11}{433}\sqrt{1374e^1} \otimes e_8$	{123479, 1269, 1345, 1567, 2356789, 24589, 368, 478}
951:1	$0, 0, 0, 0, \frac{13}{1441}\sqrt{1374e^{12}}, \frac{1}{1441}\sqrt{386094e^{13}}, \frac{3}{1441}\sqrt{17862e^{23}},$ $\frac{4}{1441}\sqrt{8931e^{34}}, \frac{4}{1441}\sqrt{17862e^{15}}$	$(\frac{247}{1441}, -\frac{112}{1441}, -\frac{328}{1441}, \frac{606}{1441}, \frac{135}{1441}, -\frac{81}{1441}, -\frac{40}{131}, \frac{278}{1441}, \frac{382}{1441})$ $+ \frac{1}{1441}\sqrt{1004394e^1} \otimes e_7 + \frac{4}{1441}\sqrt{46029e^4} \otimes e_6$	{12349, 156, 245789, 3678}
951:1	$0, 0, 0, 0, \frac{32}{581}\sqrt{65e^{12}}, \frac{144}{581}\sqrt{2e^{13}}, \frac{16}{581}\sqrt{78e^{23}}, \frac{32}{581}\sqrt{65e^{34}},$ $\frac{48}{581}\sqrt{26e^{15}}$	$(\frac{104}{581}, -\frac{16}{581}, \frac{52}{581}, -\frac{204}{581}, \frac{88}{581}, \frac{156}{581}, \frac{36}{581}, -\frac{152}{581}, \frac{192}{581})$ $+ \frac{16}{581}\sqrt{298e^3} \otimes e_4 + \frac{16}{581}\sqrt{714e^1} \otimes e_8$	{2356789, 24589, 368, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:1	$0, 0, 0, 0, \frac{4}{107}\sqrt{390}e^{12}, \frac{6}{107}\sqrt{143}e^{13}, \frac{4}{107}\sqrt{195}e^{23}, \frac{4}{107}\sqrt{390}e^{34},$ $\frac{2}{107}\sqrt{663}e^{15}$	$(-\frac{6}{107}, \frac{47}{107}, -\frac{9}{107}, -\frac{22}{107}, \frac{41}{107}, -\frac{15}{107}, \frac{38}{107}, -\frac{31}{107}, \frac{35}{107})$ $+\frac{2}{107}\sqrt{3471}e^2 \otimes e_8$	{123469, 1279, 135678, 1458, 23459, 25679, 378, 468}
951:1	$0, 0, 0, 0, \frac{550}{2209}\sqrt{3}e^{12}, \frac{550}{2209}e^{13}, \frac{100}{2209}\sqrt{33}e^{23}, \frac{50}{2209}\sqrt{462}e^{34},$ $\frac{50}{2209}\sqrt{506}e^{15}$	$(-\frac{460}{2209}, \frac{605}{2209}, -\frac{185}{2209}, \frac{935}{2209}, \frac{145}{2209}, -\frac{645}{2209}, \frac{420}{2209}, \frac{750}{2209}, -\frac{315}{2209})$ $+\frac{100}{2209}\sqrt{203}e^2 \otimes e_6 + \frac{50}{2209}\sqrt{1109}e^4 \otimes e_9$	{1279, 134567, 23589, 468}
951:1	$0, 0, 0, 0, \frac{4}{4029}\sqrt{26461}e^{12}, \frac{10}{4029}\sqrt{2815}e^{13}, \frac{2}{4029}\sqrt{624367}e^{23},$ $\frac{2}{4029}\sqrt{571445}e^{34}, \frac{2}{4029}\sqrt{474609}e^{15}$	$(-\frac{110}{4029}, -\frac{167}{1343}, \frac{135}{1343}, \frac{1030}{4029}, -\frac{611}{4029}, \frac{295}{4029}, -\frac{32}{1343}, \frac{1435}{4029}, -\frac{721}{4029})$ $+\frac{10}{4029}\sqrt{36595}e^4 \otimes e_7 + \frac{16}{4029}\sqrt{17453}e^3 \otimes e_9$	{123456, 1489, 234, 45689}
951:1	$0, 0, 0, 0, \frac{3}{142}\sqrt{434}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{21}{142}\sqrt{2}e^{23}, \frac{6}{71}\sqrt{42}e^{34},$ $\frac{3}{142}\sqrt{119}e^{15}$	$(-\frac{7}{71}, \frac{53}{142}, -\frac{59}{284}, \frac{39}{284}, \frac{39}{142}, -\frac{87}{284}, \frac{47}{284}, -\frac{5}{71}, \frac{25}{142})$ $+\frac{3}{142}\sqrt{1043}e^2 \otimes e_8 + \frac{3}{142}\sqrt{714}e^4 \otimes e_6$	{135678, 1458, 23459, 25679}
951:1	$0, 0, 0, 0, \frac{1}{385}\sqrt{56794}e^{12}, \frac{12}{385}\sqrt{778}e^{13}, \frac{1}{385}\sqrt{100362}e^{23},$ $\frac{1}{385}\sqrt{56794}e^{34}, \frac{2}{385}\sqrt{5835}e^{15}$	$(\frac{13}{385}, -\frac{2}{385}, \frac{37}{77}, -\frac{204}{385}, \frac{1}{35}, \frac{18}{35}, \frac{183}{385}, -\frac{19}{385}, \frac{24}{385})$ $+\frac{1}{385}\sqrt{257518}e^3 \otimes e_4$	{12359, 1245679, 137, 146, 2369, 2479, 3567, 45}
951:1	$0, 0, 0, 0, \frac{1}{1463}\sqrt{386318}e^{12}, \frac{4}{1463}\sqrt{9218}e^{13}, \frac{8}{1463}\sqrt{1257}e^{23},$ $\frac{1}{1463}\sqrt{252238}e^{34}, \frac{1}{1463}\sqrt{225422}e^{15}$	$(\frac{1}{19}, \frac{15}{77}, -\frac{211}{1463}, -\frac{131}{1463}, \frac{362}{1463}, -\frac{134}{1463}, \frac{74}{1463}, -\frac{18}{77}, \frac{439}{1463})$ $+\frac{1}{1463}\sqrt{681294}e^1 \otimes e_8 + \frac{8}{1463}\sqrt{6285}e^2 \otimes e_6$	{123479, 1567, 24589, 368}
951:1	$0, 0, 0, 0, \frac{5}{179}\sqrt{182}e^{12}, \frac{2}{179}\sqrt{273}e^{13}, \frac{3}{179}\sqrt{910}e^{23}, \frac{5}{179}\sqrt{182}e^{34},$ $\frac{3}{179}\sqrt{182}e^{15}$	$(-\frac{7}{179}, \frac{44}{179}, \frac{22}{179}, -\frac{69}{179}, \frac{37}{179}, \frac{15}{179}, \frac{66}{179}, -\frac{47}{179}, \frac{30}{179})$ $+\frac{13}{179}\sqrt{70}e^3 \otimes e_4 + \frac{1}{179}\sqrt{16926}e^2 \otimes e_8$	{135678, 1458, 378, 468}
951:1	$0, 0, 0, 0, \frac{2}{3961}\sqrt{47191}e^{12}, \frac{10}{3961}\sqrt{697}e^{13}, \frac{12}{3961}\sqrt{779}e^{23},$ $\frac{26}{3961}\sqrt{410}e^{34}, \frac{2}{3961}\sqrt{59942}e^{15}$	$(\frac{156}{3961}, -\frac{103}{3961}, -\frac{217}{3961}, \frac{291}{3961}, \frac{53}{3961}, -\frac{61}{3961}, -\frac{320}{3961}, \frac{74}{3961}, \frac{209}{3961})$ $+\frac{12}{3961}\sqrt{2255}e^1 \otimes e_8 + \frac{14}{3961}\sqrt{1353}e^4 \otimes e_9$	{129, 13456, 235789, 4678}
951:1	$0, 0, 0, 0, \frac{6}{3505}\sqrt{14381}e^{12}, \frac{4}{3505}\sqrt{12017}e^{13}, \frac{2}{3505}\sqrt{17139}e^{23},$ $\frac{12}{3505}\sqrt{6107}e^{34}, \frac{2}{3505}\sqrt{214139}e^{15}$	$(\frac{28}{701}, -\frac{191}{3505}, \frac{483}{3505}, -\frac{737}{3505}, -\frac{51}{3505}, \frac{623}{3505}, \frac{292}{3505}, -\frac{254}{3505}, \frac{89}{3505})$ $+\frac{18}{3505}\sqrt{3349}e^3 \otimes e_9 + \frac{2}{3505}\sqrt{344553}e^1 \otimes e_8$	{1269, 1345, 24589, 368}
951:1	$0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{2}{157}\sqrt{2407}e^{13}, \frac{6}{157}\sqrt{415}e^{23}, \frac{2}{157}\sqrt{3901}e^{34},$ $\frac{2}{157}\sqrt{1577}e^{15}$	$(\frac{34}{157}, -\frac{21}{157}, -\frac{35}{157}, \frac{110}{157}, \frac{13}{157}, -\frac{1}{157}, -\frac{56}{157}, \frac{75}{157}, \frac{47}{157})$ $+\frac{2}{157}\sqrt{10707}e^4 \otimes e_7$	{123469, 1279, 135678, 1458, 23459, 25679, 378, 468}
951:1	$0, 0, 0, 0, \frac{12}{1301}\sqrt{1019}e^{12}, \frac{5}{1301}\sqrt{10190}e^{13}, \frac{1}{1301}\sqrt{654198}e^{23},$ $\frac{1}{1301}\sqrt{580830}e^{34}, \frac{28}{1301}\sqrt{1019}e^{15}$	$(-\frac{215}{1301}, -\frac{19}{1301}, \frac{570}{1301}, -\frac{55}{1301}, -\frac{234}{1301}, \frac{355}{1301}, \frac{551}{1301}, \frac{515}{1301}, -\frac{449}{1301})$ $+\frac{3}{1301}\sqrt{242522}e^3 \otimes e_9$	{12345, 12358, 14689, 169, 2346, 2368, 4589, 59}
951:1	$0, 0, 0, 0, \frac{4}{317}\sqrt{1651}e^{12}, \frac{2}{317}\sqrt{10795}e^{13}, \frac{6}{317}\sqrt{254}e^{23}, \frac{4}{317}\sqrt{4445}e^{34},$ $\frac{2}{317}\sqrt{17018}e^{15}$	$(-\frac{48}{317}, \frac{19}{317}, \frac{16}{317}, \frac{177}{317}, -\frac{29}{317}, -\frac{32}{317}, \frac{35}{317}, \frac{193}{317}, -\frac{77}{317})$ $+\frac{4}{317}\sqrt{8382}e^4 \otimes e_9$	{1236789, 129, 13456, 14578, 235789, 2569, 34, 4678}
951:1	$0, 0, 0, 0, \frac{36}{3401}\sqrt{1270}e^{12}, \frac{18}{3401}\sqrt{1995}e^{13}, \frac{72}{3401}\sqrt{235}e^{23},$ $\frac{72}{3401}\sqrt{165}e^{34}, \frac{18}{3401}\sqrt{3745}e^{15}$	$(\frac{482}{3401}, \frac{169}{3401}, -\frac{497}{3401}, -\frac{144}{3401}, \frac{651}{3401}, -\frac{15}{3401}, -\frac{328}{3401}, -\frac{641}{3401}, \frac{1133}{3401})$ $+\frac{18}{3401}\sqrt{7765}e^2 \otimes e_8 + \frac{36}{3401}\sqrt{1830}e^1 \otimes e_7$	{123469, 1458, 25679, 378}
951:1	$0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{5}{209}\sqrt{138}e^{13}, \frac{1}{209}\sqrt{4738}e^{23}, \frac{46}{209}e^{34},$ $\frac{4}{209}\sqrt{161}e^{15}$	$(\frac{16}{209}, \frac{16}{209}, -\frac{46}{209}, \frac{43}{209}, \frac{32}{209}, -\frac{30}{209}, -\frac{30}{209}, -\frac{3}{209}, \frac{48}{209})$ $+\frac{1}{209}\sqrt{9338}e^1 \otimes e_7 + \frac{5}{209}\sqrt{322}e^2 \otimes e_6$	{123489, 1239, 1456, 1568, 24579, 25789, 34678, 367}
951:1	$0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{5}{209}\sqrt{138}e^{13}, \frac{1}{209}\sqrt{4738}e^{23}, \frac{46}{209}e^{34},$ $\frac{4}{209}\sqrt{161}e^{15}$	$(\frac{16}{209}, \frac{16}{209}, -\frac{46}{209}, \frac{43}{209}, \frac{32}{209}, -\frac{30}{209}, \frac{30}{209}, -\frac{3}{209}, \frac{48}{209})$ $+\frac{1}{209}\sqrt{9338}e^1 \otimes e_7 - \frac{5}{209}\sqrt{322}e^2 \otimes e_6$	{123489, 1239, 1456, 1568, 24579, 25789, 34678, 367}
951:1	$0, 0, 0, 0, \frac{92}{3457}\sqrt{10}e^{12}, \frac{92}{3457}\sqrt{210}e^{13}, \frac{92}{3457}\sqrt{258}e^{23},$ $\frac{46}{3457}\sqrt{519}e^{34}, \frac{368}{3457}\sqrt{6}e^{15}$	$(\frac{728}{3457}, -\frac{757}{3457}, \frac{427}{3457}, -\frac{631}{3457}, -\frac{29}{3457}, \frac{1155}{3457}, -\frac{330}{3457}, -\frac{204}{3457}, \frac{699}{3457})$ $+\frac{46}{3457}\sqrt{1465}e^3 \otimes e_4 + \frac{46}{3457}\sqrt{1677}e^1 \otimes e_7$	{1239, 1456, 24579, 367}
951:1	$0, 0, 0, 0, \frac{12}{3467}\sqrt{1853}e^{12}, \frac{24}{3467}\sqrt{2567}e^{13}, \frac{12}{3467}\sqrt{14433}e^{23},$ $\frac{36}{3467}\sqrt{391}e^{34}, \frac{84}{3467}\sqrt{170}e^{15}$	$(-\frac{816}{3467}, \frac{822}{3467}, \frac{414}{3467}, \frac{180}{3467}, \frac{6}{3467}, -\frac{402}{3467}, \frac{1236}{3467}, \frac{594}{3467}, -\frac{810}{3467})$ $+\frac{12}{3467}\sqrt{23681}e^2 \otimes e_6 + \frac{12}{3467}\sqrt{28679}e^3 \otimes e_9$	{245789, 2579, 3467, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:1	$0, 0, 0, 0, \frac{1}{223} \sqrt{4558}e^{12}, \frac{2}{223} \sqrt{731}e^{13}, \frac{4}{223} \sqrt{258}e^{23}, \frac{1}{223} \sqrt{6794}e^{34},$ $\frac{1}{223} \sqrt{3182}e^{15}$	$(\frac{21}{223}, \frac{17}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{38}{223}, -\frac{22}{223}, -\frac{26}{223}, -\frac{22}{223}, \frac{59}{223})$ $+ \frac{1}{223} \sqrt{10578}e^1 \otimes e_8 + \frac{2}{223} \sqrt{1677}e^4 \otimes e_6$	{123479, 1269, 1345, 1567, 2356789, 24589, 368, 478}
951:1	$0, 0, 0, 0, \frac{4}{1037} \sqrt{6105}e^{12}, \frac{6}{1037} \sqrt{3515}e^{13}, \frac{4}{1037} \sqrt{6882}e^{23},$ $\frac{2}{1037} \sqrt{39738}e^{34}, \frac{16}{1037} \sqrt{222}e^{15}$	$(\frac{36}{1037}, \frac{155}{1037}, -\frac{222}{1037}, \frac{155}{1037}, \frac{191}{1037}, -\frac{186}{1037}, -\frac{67}{1037}, -\frac{67}{1037}, \frac{227}{1037})$ $+ \frac{4}{1037} \sqrt{14541}e^2 \otimes e_8 - \frac{6}{1037} \sqrt{5106}e^4 \otimes e_7$	{123469, 1279, 135678, 1458, 23459, 25679, 378, 468}
951:1	$0, 0, 0, 0, \frac{4}{1037} \sqrt{6105}e^{12}, \frac{6}{1037} \sqrt{3515}e^{13}, \frac{4}{1037} \sqrt{6882}e^{23},$ $\frac{2}{1037} \sqrt{39738}e^{34}, \frac{16}{1037} \sqrt{222}e^{15}$	$(\frac{36}{1037}, \frac{155}{1037}, -\frac{222}{1037}, \frac{155}{1037}, \frac{191}{1037}, -\frac{186}{1037}, -\frac{67}{1037}, -\frac{67}{1037}, \frac{227}{1037})$ $+ \frac{4}{1037} \sqrt{14541}e^2 \otimes e_8 + \frac{6}{1037} \sqrt{5106}e^4 \otimes e_7$	{123469, 1279, 135678, 1458, 23459, 25679, 378, 468}
951:1	$0, 0, 0, 0, \frac{4}{47} \sqrt{3}e^{12}, \frac{4}{47} \sqrt{5}e^{13}, \frac{8}{47} \sqrt{3}e^{23}, \frac{4}{47} \sqrt{3}e^{34},$ $\frac{4}{47} \sqrt{14}e^{15}$	$(\frac{4}{47}, -\frac{10}{47}, \frac{6}{47}, \frac{2}{47}, -\frac{6}{47}, \frac{10}{47}, -\frac{4}{47}, \frac{8}{47}, -\frac{2}{47})$ $+ \frac{4}{47} \sqrt{21}e^1 \otimes e_7 + \frac{4}{47} \sqrt{21}e^3 \otimes e_9$	{245789, 2579, 3467, 3678}
951:1	$0, 0, 0, 0, \frac{10}{3049} \sqrt{11413}e^{12}, \frac{2}{3049} \sqrt{135845}e^{13}, \frac{4}{3049} \sqrt{35855}e^{23},$ $\frac{2}{3049} \sqrt{283810}e^{34}, \frac{2}{3049} \sqrt{558530}e^{15}$	$(\frac{308}{3049}, -\frac{487}{3049}, -\frac{215}{3049}, \frac{1139}{3049}, -\frac{179}{3049}, \frac{93}{3049}, -\frac{702}{3049}, \frac{924}{3049}, \frac{129}{3049})$ $+ \frac{2}{3049} \sqrt{676195}e^4 \otimes e_9 + \frac{4}{3049} \sqrt{170185}e^1 \otimes e_7$	{123689, 1458, 25679, 347}
951:1	$0, 0, 0, 0, \frac{1}{1241} \sqrt{556478}e^{12}, \frac{4}{1241} \sqrt{46583}e^{13}, \frac{2}{1241} \sqrt{177519}e^{23},$ $\frac{2}{1241} \sqrt{76799}e^{34}, \frac{2}{1241} \sqrt{17626}e^{15}$	$(-\frac{277}{1241}, \frac{738}{1241}, -\frac{244}{1241}, \frac{334}{1241}, \frac{461}{1241}, \frac{521}{1241}, \frac{494}{1241}, \frac{90}{1241}, \frac{184}{1241})$ $+ \frac{7}{1241} \sqrt{52878}e^2 \otimes e_6$	{123, 12348, 14569, 15689, 2457, 2578, 346789, 3679}
951:2	$0, 0, 0, 0, \frac{3}{1387} \sqrt{4510}e^{12}, \frac{6}{1387} \sqrt{8305}e^{13}, \frac{3}{1387} \sqrt{4070}e^{14},$ $\frac{15}{1387} \sqrt{814}e^{34}, \frac{66}{1387} \sqrt{85}e^{15}$	$(\frac{111}{1387}, -\frac{384}{1387}, \frac{333}{1387}, -\frac{6}{1387}, -\frac{273}{1387}, \frac{444}{1387}, \frac{105}{1387}, \frac{327}{1387}, -\frac{162}{1387})$ $+ \frac{27}{1387} \sqrt{770}e^1 \otimes e_2 + \frac{6}{1387} \sqrt{18645}e^3 \otimes e_9$	{146789, 169, 2346, 23678}
951:2	$0, 0, 0, 0, \frac{6}{89} \sqrt{58}e^{12}, \frac{5}{89} \sqrt{174}e^{13}, \frac{5}{89} \sqrt{174}e^{14}, \frac{1}{89} \sqrt{2262}e^{34},$ $\frac{6}{89} \sqrt{58}e^{15}$	$(-\frac{12}{89}, \frac{26}{89}, \frac{51}{89}, -\frac{24}{89}, \frac{14}{89}, \frac{39}{89}, -\frac{36}{89}, \frac{27}{89}, \frac{2}{89})$ $+ \frac{15}{89} \sqrt{58}e^3 \otimes e_7$	{123459, 125679, 134, 167, 23689, 24789, 3568, 4578}
951:2	$0, 0, 0, 0, \frac{12}{47} \sqrt{2}e^{12}, \frac{6}{47} \sqrt{10}e^{13}, \frac{6}{47} \sqrt{11}e^{14}, \frac{6}{47} \sqrt{10}e^{34},$ $\frac{6}{47} \sqrt{10}e^{15}$	$(-\frac{12}{47}, \frac{15}{47}, \frac{9}{47}, \frac{6}{47}, \frac{3}{47}, -\frac{3}{47}, -\frac{6}{47}, \frac{15}{47}, -\frac{9}{47})$ $+ \frac{12}{47} \sqrt{6}e^3 \otimes e_9 + \frac{18}{47} \sqrt{2}e^2 \otimes e_6$	{24589, 2579, 346, 3678}
951:2	$0, 0, 0, 0, \frac{6}{367} \sqrt{413}e^{12}, \frac{3}{367} \sqrt{455}e^{13}, \frac{3}{367} \sqrt{1547}e^{14}, \frac{6}{367} \sqrt{595}e^{34},$ $\frac{3}{367} \sqrt{1561}e^{15}$	$(-\frac{51}{367}, \frac{93}{367}, \frac{54}{367}, -\frac{24}{367}, \frac{42}{367}, \frac{3}{367}, -\frac{75}{367}, \frac{30}{367}, -\frac{9}{367})$ $+ \frac{6}{367} \sqrt{546}e^3 \otimes e_9 + \frac{6}{367} \sqrt{273}e^2 \otimes e_8$	{129, 13568, 25679, 378}
951:2	$0, 0, 0, 0, \frac{3}{1387} \sqrt{4510}e^{12}, \frac{3}{1387} \sqrt{4070}e^{13}, \frac{6}{1387} \sqrt{8305}e^{14},$ $\frac{66}{1387} \sqrt{85}e^{34}, \frac{15}{1387} \sqrt{814}e^{15}$	$(-\frac{267}{1387}, \frac{183}{1387}, \frac{372}{1387}, \frac{144}{1387}, -\frac{84}{1387}, \frac{105}{1387}, -\frac{123}{1387}, \frac{516}{1387}, -\frac{351}{1387})$ $+ \frac{27}{1387} \sqrt{770}e^3 \otimes e_7 + \frac{6}{1387} \sqrt{18645}e^4 \otimes e_9$	{123456, 179, 24678, 3589}
951:2	$0, 0, 0, 0, \frac{12}{181} \sqrt{143}e^{12}, \frac{30}{181} \sqrt{22}e^{13}, \frac{30}{181} \sqrt{11}e^{14}, \frac{6}{181} \sqrt{22}e^{34},$ $\frac{181}{181} \sqrt{22}e^{15}$	$(-\frac{48}{181}, \frac{129}{181}, -\frac{21}{181}, \frac{54}{181}, \frac{81}{181}, -\frac{69}{181}, \frac{6}{181}, \frac{33}{181}, \frac{33}{181})$ $+ \frac{30}{181} \sqrt{66}e^2 \otimes e_6$	{123479, 12389, 145678, 156, 24589, 2579, 346, 3678}
951:2	$0, 0, 0, 0, \frac{12}{61} \sqrt{6}e^{12}, \frac{6}{61} \sqrt{6}e^{13}, \frac{6}{61} \sqrt{6}e^{14}, \frac{3}{61} \sqrt{138}e^{34},$ $\frac{3}{61} \sqrt{30}e^{15}$	$(-\frac{6}{61}, \frac{24}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{18}{61}, \frac{3}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{9}{61} \sqrt{14}e^3 \otimes e_7 + \frac{9}{61} \sqrt{22}e^2 \otimes e_8$	{13568, 14578, 23459, 25679}
951:2	$0, 0, 0, 0, \frac{6}{23} \sqrt{10}e^{12}, \frac{1}{23} \sqrt{195}e^{13}, \frac{1}{23} \sqrt{195}e^{14}, \frac{6}{23} \sqrt{10}e^{34},$ $\frac{1}{23} \sqrt{165}e^{15}$	$(-\frac{1}{23}, \frac{11}{23}, -\frac{2}{23}, -\frac{2}{23}, \frac{10}{23}, -\frac{3}{23}, -\frac{3}{23}, -\frac{4}{23}, \frac{9}{23})$ $+ \frac{3}{23} \sqrt{65}e^2 \otimes e_8$	{1234679, 129, 13568, 23459, 25679, 378}
951:2	$0, 0, 0, 0, \frac{3}{125} \sqrt{110}e^{12}, \frac{4}{125} \sqrt{66}e^{13}, \frac{4}{125} \sqrt{66}e^{14}, \frac{1}{125} \sqrt{2046}e^{34},$ $\frac{3}{125} \sqrt{110}e^{15}$	$(\frac{3}{25}, -\frac{1}{125}, \frac{3}{25}, -\frac{33}{125}, \frac{14}{125}, \frac{6}{25}, -\frac{18}{125}, -\frac{18}{125}, \frac{29}{125})$ $- \frac{12}{125} \sqrt{22}e^3 \otimes e_7 + \frac{3}{125} \sqrt{462}e^1 \otimes e_8$	{12349, 12679, 1345, 1567, 235689, 245789, 368, 478}
951:2	$0, 0, 0, 0, \frac{3}{125} \sqrt{110}e^{12}, \frac{4}{125} \sqrt{66}e^{13}, \frac{4}{125} \sqrt{66}e^{14}, \frac{1}{125} \sqrt{2046}e^{34},$ $\frac{3}{125} \sqrt{110}e^{15}$	$(\frac{3}{25}, -\frac{1}{125}, \frac{3}{25}, -\frac{33}{125}, \frac{14}{125}, \frac{6}{25}, -\frac{18}{125}, -\frac{18}{125}, \frac{29}{125})$ $+ \frac{12}{125} \sqrt{22}e^3 \otimes e_7 + \frac{3}{125} \sqrt{462}e^1 \otimes e_8$	{12349, 12679, 1345, 1567, 235689, 245789, 368, 478}
951:2	$0, 0, 0, 0, \frac{3}{16} \sqrt{2}e^{12}, \frac{1}{16} \sqrt{30}e^{13}, \frac{1}{16} \sqrt{30}e^{14}, \frac{1}{8} \sqrt{3}e^{34},$ $\frac{3}{16} \sqrt{2}e^{15}$	$(-\frac{3}{16}, \frac{1}{4}, \frac{3}{32}, \frac{3}{32}, \frac{1}{16}, -\frac{3}{32}, -\frac{3}{32}, \frac{3}{16}, -\frac{1}{8})$ $+ \frac{3}{16} \sqrt{5}e^3 \otimes e_7 - \frac{3}{16} \sqrt{5}e^4 \otimes e_6$	{123459, 125679, 134, 167, 23689, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:2	$0, 0, 0, 0, \frac{24}{1417}\sqrt{158}e^{12}, \frac{15}{1417}\sqrt{2686}e^{13}, \frac{15}{1417}\sqrt{790}e^{14},$ $\frac{3}{1417}\sqrt{14062}e^{34}, \frac{12}{1417}\sqrt{1343}e^{15}$	$(-\frac{336}{1417}, \frac{678}{1417}, \frac{303}{1417}, -\frac{72}{1417}, \frac{342}{1417}, -\frac{33}{1417}, -\frac{408}{1417}, \frac{231}{1417}, \frac{6}{1417})$ $+\frac{45}{1417}\sqrt{474}e^3 \otimes e_7 + \frac{60}{1417}\sqrt{237}e^2 \otimes e_6$	{1234, 15679, 24578, 3689}
951:2	$0, 0, 0, 0, \frac{3}{16}\sqrt{2}e^{12}, \frac{1}{16}\sqrt{30}e^{13}, \frac{1}{16}\sqrt{30}e^{14}, \frac{1}{8}\sqrt{3}e^{34},$ $\frac{3}{16}\sqrt{2}e^{15}$	$(-\frac{3}{16}, \frac{1}{4}, \frac{3}{32}, \frac{3}{32}, \frac{1}{16}, -\frac{3}{32}, -\frac{3}{32}, \frac{3}{16}, -\frac{1}{8})$ $+\frac{3}{16}\sqrt{5}e^3 \otimes e_7 + \frac{3}{16}\sqrt{5}e^4 \otimes e_6$	{123459, 125679, 134, 167, 23689, 3568}
951:2	$0, 0, 0, 0, \frac{6}{163}\sqrt{87}e^{12}, \frac{30}{163}\sqrt{6}e^{13}, \frac{30}{163}\sqrt{6}e^{14}, \frac{12}{163}\sqrt{3}e^{34},$ $\frac{12}{163}\sqrt{3}e^{15}$	$(\frac{21}{163}, -\frac{33}{163}, \frac{42}{163}, -\frac{33}{163}, -\frac{12}{163}, \frac{63}{163}, -\frac{12}{163}, \frac{9}{163}, \frac{9}{163})$ $+\frac{90}{163}e^1 \otimes e_2 + \frac{90}{163}e^3 \otimes e_7$	{1348, 1678, 2369, 2479}
951:2	$0, 0, 0, 0, \frac{3}{533}\sqrt{5678}e^{12}, \frac{24}{533}\sqrt{34}e^{13}, \frac{24}{533}\sqrt{17}e^{14}, \frac{3}{533}\sqrt{3502}e^{34},$ $\frac{3}{533}\sqrt{3502}e^{15}$	$(\frac{3}{41}, \frac{87}{533}, -\frac{105}{533}, -\frac{9}{533}, \frac{126}{533}, -\frac{66}{533}, \frac{30}{533}, -\frac{114}{533}, \frac{165}{533})$ $+\frac{24}{533}\sqrt{102}e^2 \otimes e_6 + \frac{9}{533}\sqrt{1054}e^1 \otimes e_8$	{123479, 156, 24589, 3678}
951:2	$0, 0, 0, 0, \frac{48}{599}\sqrt{5}e^{12}, \frac{3}{599}\sqrt{430}e^{13}, \frac{6}{599}\sqrt{215}e^{14}, \frac{6}{599}\sqrt{535}e^{34},$ $\frac{6}{599}\sqrt{535}e^{15}$	$(\frac{42}{599}, -\frac{66}{599}, \frac{63}{599}, -\frac{66}{599}, -\frac{24}{599}, \frac{105}{599}, -\frac{24}{599}, -\frac{3}{599}, \frac{18}{599})$ $+\frac{6}{599}\sqrt{645}e^3 \otimes e_9 + \frac{9}{599}\sqrt{310}e^1 \otimes e_8$	{1269, 13457, 24589, 3678}
951:2	$0, 0, 0, 0, \frac{12}{187}\sqrt{38}e^{12}, \frac{24}{187}\sqrt{13}e^{13}, \frac{24}{187}\sqrt{26}e^{14}, \frac{12}{187}\sqrt{142}e^{34},$ $\frac{12}{187}\sqrt{142}e^{15}$	$(-\frac{3}{17}, \frac{12}{187}, \frac{90}{187}, \frac{12}{187}, -\frac{21}{187}, \frac{57}{187}, -\frac{21}{187}, \frac{6}{11}, -\frac{54}{187})$ $+\frac{24}{187}\sqrt{78}e^3 \otimes e_9$	{1246789, 1269, 13457, 1358, 24589, 2579, 346, 3678}
951:2	$0, 0, 0, 0, \frac{6}{89}\sqrt{58}e^{12}, \frac{5}{89}\sqrt{174}e^{13}, \frac{5}{89}\sqrt{174}e^{14}, \frac{6}{89}\sqrt{58}e^{34},$ $\frac{1}{89}\sqrt{2262}e^{15}$	$(\frac{38}{89}, -\frac{49}{89}, \frac{1}{89}, \frac{1}{89}, -\frac{11}{89}, \frac{39}{89}, \frac{39}{89}, \frac{2}{89}, \frac{27}{89})$ $+\frac{15}{89}\sqrt{58}e^1 \otimes e_2$	{13489, 1379, 16789, 234678, 236, 28}
951:2	$0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{462}e^{13}, \frac{6}{331}\sqrt{231}e^{14}, \frac{21}{331}\sqrt{66}e^{34},$ $\frac{21}{331}\sqrt{66}e^{15}$	$(-\frac{78}{331}, \frac{99}{331}, \frac{132}{331}, -\frac{12}{331}, \frac{21}{331}, \frac{54}{331}, -\frac{90}{331}, \frac{120}{331}, -\frac{57}{331})$ $+\frac{9}{331}\sqrt{518}e^2 \otimes e_7 + \frac{9}{331}\sqrt{826}e^3 \otimes e_9$	{1269, 13457, 24589, 3678}
951:3	$0, 0, 0, 0, \frac{1}{7}\sqrt{2}e^{12}, \frac{1}{7}\sqrt{5}e^{13}, \frac{1}{7}\sqrt{5}e^{14}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}e^{25}$	$(\frac{1}{7}, 0, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{13}e^1 \otimes e_8 + \frac{2}{7}\sqrt{3}e^3 \otimes e_7$	{12349, 12679, 13459, 15679, 23568, 24578, 368, 478}
951:3	$0, 0, 0, 0, \frac{1}{7}\sqrt{2}e^{12}, \frac{1}{7}\sqrt{5}e^{13}, \frac{1}{7}\sqrt{5}e^{14}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}e^{25}$	$(\frac{1}{7}, 0, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{13}e^1 \otimes e_8 - \frac{2}{7}\sqrt{3}e^3 \otimes e_7$	{12349, 12679, 13459, 15679, 23568, 24578, 368, 478}
951:3	$0, 0, 0, 0, \frac{6}{893}\sqrt{2013}e^{12}, \frac{5}{893}\sqrt{6954}e^{13}, \frac{8}{893}\sqrt{183}e^{14}, \frac{1}{893}\sqrt{47946}e^{34},$ $\frac{1}{893}\sqrt{134322}e^{25}$	$(-\frac{245}{893}, \frac{268}{893}, \frac{147}{893}, \frac{26}{893}, \frac{23}{893}, -\frac{98}{893}, -\frac{219}{893}, \frac{173}{893}, \frac{291}{893})$ $+\frac{1}{893}\sqrt{250710}e^3 \otimes e_7 + \frac{2}{893}\sqrt{81069}e^2 \otimes e_6$	{12349, 15679, 24578, 368}
951:3	$0, 0, 0, 0, \frac{86}{333}e^{12}, \frac{1}{333}\sqrt{13674}e^{13}, \frac{1}{333}\sqrt{13674}e^{14}, \frac{2}{333}\sqrt{2494}e^{34},$ $\frac{2}{333}\sqrt{430}e^{25}$	$(-\frac{86}{333}, \frac{7}{37}, \frac{44}{333}, \frac{44}{333}, -\frac{23}{333}, -\frac{14}{111}, -\frac{14}{111}, \frac{88}{333}, \frac{40}{333})$ $+\frac{1}{333}\sqrt{26058}e^3 \otimes e_7 - \frac{1}{333}\sqrt{26058}e^4 \otimes e_6$	{12345, 12567, 134, 167, 23689, 35689}
951:3	$0, 0, 0, 0, \frac{2}{471}\sqrt{5214}e^{12}, \frac{2}{471}\sqrt{2607}e^{13}, \frac{2}{471}\sqrt{2607}e^{14}, \frac{2}{471}\sqrt{5214}e^{34},$ $\frac{2}{471}\sqrt{12403}e^{25}$	$(-\frac{25}{157}, \frac{41}{471}, \frac{55}{157}, -\frac{14}{157}, -\frac{34}{471}, \frac{30}{157}, -\frac{39}{157}, \frac{41}{157}, \frac{7}{471})$ $+\frac{2}{157}\sqrt{1817}e^2 \otimes e_7 + \frac{2}{157}\sqrt{1817}e^3 \otimes e_9$	{124689, 15679, 23568, 3467}
951:3	$0, 0, 0, 0, \frac{7}{51}\sqrt{2}e^{12}, \frac{1}{51}\sqrt{210}e^{13}, \frac{4}{51}\sqrt{7}e^{14}, \frac{7}{51}\sqrt{2}e^{34},$ $\frac{1}{51}\sqrt{238}e^{25}$	$(-\frac{3}{17}, \frac{4}{51}, \frac{2}{17}, \frac{2}{17}, -\frac{5}{51}, -\frac{1}{17}, -\frac{1}{17}, \frac{4}{17}, -\frac{1}{51})$ $+\frac{1}{51}\sqrt{322}e^2 \otimes e_6 + \frac{1}{51}\sqrt{322}e^3 \otimes e_9$	{1456789, 1569, 346, 3678}
951:3	$0, 0, 0, 0, \frac{2}{1497}\sqrt{6834}e^{12}, \frac{2}{1497}\sqrt{239190}e^{13}, \frac{67}{1497}\sqrt{102}e^{14},$ $\frac{2}{1497}\sqrt{242607}e^{34}, \frac{1}{1497}\sqrt{1136722}e^{25}$	$(\frac{8}{499}, -\frac{256}{1497}, \frac{217}{499}, \frac{10}{499}, -\frac{232}{1497}, \frac{225}{499}, \frac{18}{499}, \frac{227}{499}, -\frac{488}{1497})$ $+\frac{2}{499}\sqrt{78591}e^3 \otimes e_9$	{1246789, 1269, 1456789, 1569, 23456, 235678, 346, 3678}
951:3	$0, 0, 0, 0, \frac{5}{269}\sqrt{406}e^{12}, \frac{1}{269}\sqrt{8015}e^{13}, \frac{1}{269}\sqrt{805}e^{14}, \frac{1}{269}\sqrt{4270}e^{34},$ $\frac{1}{269}\sqrt{7315}e^{25}$	$(\frac{19}{269}, \frac{32}{269}, -\frac{57}{269}, \frac{6}{269}, \frac{51}{269}, -\frac{38}{269}, \frac{25}{269}, -\frac{51}{269}, \frac{83}{269})$ $+\frac{1}{269}\sqrt{15715}e^1 \otimes e_8 + \frac{42}{269}\sqrt{10}e^2 \otimes e_6$	{123479, 1569, 2458, 3678}
951:3	$0, 0, 0, 0, \frac{86}{333}e^{12}, \frac{1}{333}\sqrt{13674}e^{13}, \frac{1}{333}\sqrt{13674}e^{14}, \frac{2}{333}\sqrt{2494}e^{34},$ $\frac{2}{333}\sqrt{430}e^{25}$	$(-\frac{86}{333}, \frac{7}{37}, \frac{44}{333}, \frac{44}{333}, -\frac{23}{333}, -\frac{14}{111}, -\frac{14}{111}, \frac{88}{333}, \frac{40}{333})$ $+\frac{1}{333}\sqrt{26058}e^3 \otimes e_7 + \frac{1}{333}\sqrt{26058}e^4 \otimes e_6$	{12345, 12567, 134, 167, 23689, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:3	$0, 0, 0, 0, \frac{2}{553}\sqrt{2635}e^{12}, \frac{2}{553}\sqrt{930}e^{13}, \frac{2}{553}\sqrt{11470}e^{14}, \frac{1}{553}\sqrt{40610}e^{34},$ $\frac{10}{553}\sqrt{341}e^{25}$	$(-\frac{68}{553}, -\frac{18}{553}, \frac{138}{553}, \frac{51}{553}, -\frac{86}{553}, \frac{10}{79}, -\frac{17}{553}, \frac{27}{79}, -\frac{104}{553})$ $+\frac{1}{553}\sqrt{69130}e^3 \otimes e_7 + \frac{4}{553}\sqrt{5270}e^4 \otimes e_9$	{12345, 134, 23689, 35689}
951:3	$0, 0, 0, 0, \frac{1}{351}\sqrt{21614}e^{12}, \frac{4}{351}\sqrt{321}e^{13}, \frac{4}{351}\sqrt{321}e^{14}, \frac{1}{351}\sqrt{28462}e^{34},$ $\frac{1}{351}\sqrt{18190}e^{25}$	$(-\frac{11}{351}, \frac{23}{117}, \frac{29}{351}, -\frac{67}{351}, \frac{58}{351}, \frac{39}{9}, -\frac{2}{351}, -\frac{38}{351}, \frac{127}{351})$ $+\frac{1}{351}\sqrt{45582}e^2 \otimes e_8 + \frac{8}{351}\sqrt{321}e^3 \otimes e_7$	{135689, 145789, 2345, 2567}
951:3	$0, 0, 0, 0, \frac{1}{123}\sqrt{6270}e^{12}, \frac{4}{123}\sqrt{165}e^{13}, \frac{4}{123}\sqrt{165}e^{14}, \frac{1}{123}\sqrt{6270}e^{34},$ $\frac{1}{123}\sqrt{4510}e^{25}$	$(\frac{3}{41}, \frac{25}{123}, -\frac{5}{41}, -\frac{5}{41}, \frac{34}{123}, -\frac{2}{41}, -\frac{2}{41}, -\frac{10}{41}, \frac{59}{123})$ $+\frac{5}{123}\sqrt{462}e^2 \otimes e_8$	{1234679, 129, 135689, 2345, 2567, 378}
951:3	$0, 0, 0, 0, \frac{2}{369}\sqrt{6307}e^{12}, \frac{14}{369}\sqrt{318}e^{13}, \frac{14}{369}\sqrt{318}e^{14}, \frac{1}{369}\sqrt{49714}e^{34},$ $\frac{2}{369}\sqrt{4081}e^{25}$	$(-\frac{68}{369}, \frac{26}{123}, \frac{218}{369}, -\frac{85}{369}, \frac{10}{369}, \frac{50}{123}, -\frac{17}{41}, \frac{133}{369}, \frac{88}{369})$ $+\frac{1}{369}\sqrt{224826}e^3 \otimes e_7$	{12345, 12567, 134, 167, 23689, 24789, 35689, 45789}
951:3	$0, 0, 0, 0, \frac{2}{1497}\sqrt{242607}e^{12}, \frac{2}{1497}\sqrt{239190}e^{13}, \frac{67}{1497}\sqrt{102}e^{14},$ $\frac{2}{1497}\sqrt{6834}e^{34}, \frac{1}{1497}\sqrt{1136722}e^{25}$	$(-\frac{130}{499}, \frac{572}{1497}, -\frac{59}{499}, \frac{148}{499}, \frac{182}{1497}, -\frac{189}{499}, \frac{18}{499}, \frac{89}{499}, \frac{754}{1497})$ $+\frac{2}{499}\sqrt{78591}e^2 \otimes e_6$	{123479, 12389, 1456789, 1569, 2458, 257, 346, 3678}
951:3	$0, 0, 0, 0, \frac{1}{269}\sqrt{4270}e^{12}, \frac{1}{269}\sqrt{8015}e^{13}, \frac{1}{269}\sqrt{805}e^{14}, \frac{5}{269}\sqrt{406}e^{34},$ $\frac{1}{269}\sqrt{7315}e^{25}$	$(\frac{61}{269}, -\frac{52}{269}, \frac{27}{269}, -\frac{36}{269}, \frac{9}{269}, \frac{88}{269}, \frac{25}{269}, -\frac{9}{269}, -\frac{43}{269})$ $+\frac{1}{269}\sqrt{15715}e^1 \otimes e_8 + \frac{42}{269}\sqrt{10}e^3 \otimes e_9$	{1269, 1569, 235678, 3678}
951:3	$0, 0, 0, 0, \frac{1}{4}\sqrt{7}e^{12}, \frac{1}{8}\sqrt{14}e^{13}, \frac{1}{8}\sqrt{14}e^{14}, \frac{1}{4}\sqrt{7}e^{34},$ $\frac{1}{8}\sqrt{7}e^{25}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{3}{16}, -\frac{3}{16}, \frac{3}{8}, \frac{5}{16}, \frac{5}{16}, -\frac{3}{8}, \frac{1}{4})$ $+\frac{1}{8}\sqrt{91}e^1 \otimes e_8$	{12349, 12679, 13459, 15679, 23568, 368}
951:3	$0, 0, 0, 0, \frac{2}{2001}\sqrt{22161}e^{12}, \frac{2}{2001}\sqrt{249}e^{13}, \frac{1}{2001}\sqrt{63246}e^{14},$ $\frac{4}{667}\sqrt{913}e^{34}, \frac{1}{2001}\sqrt{110722}e^{25}$	$(\frac{10}{667}, \frac{26}{2001}, \frac{55}{667}, -\frac{74}{667}, \frac{56}{2001}, \frac{65}{667}, -\frac{64}{667}, -\frac{19}{667}, \frac{82}{2001})$ $+\frac{2}{2001}\sqrt{43077}e^2 \otimes e_8 + \frac{2}{667}\sqrt{3569}e^3 \otimes e_9$	{1269, 1456789, 23456, 3678}
951:4	$0, 0, 0, 0, \frac{18}{3101}\sqrt{1001}e^{12}, \frac{6}{3101}\sqrt{2145}e^{13}, \frac{12}{3101}\sqrt{7062}e^{24},$ $\frac{12}{3101}\sqrt{2145}e^{34}, \frac{132}{3101}\sqrt{69}e^{15}$	$(\frac{390}{3101}, -\frac{789}{3101}, \frac{15}{3101}, \frac{585}{3101}, -\frac{57}{443}, \frac{405}{3101}, -\frac{204}{3101}, \frac{600}{3101}, -\frac{9}{3101})$ $+\frac{60}{3101}\sqrt{462}e^1 \otimes e_7 + \frac{6}{3101}\sqrt{44913}e^4 \otimes e_9$	{2356789, 2579, 3467, 478}
951:4	$0, 0, 0, 0, \frac{1}{339}\sqrt{6902}e^{12}, \frac{5}{339}\sqrt{238}e^{13}, \frac{7}{339}\sqrt{374}e^{24}, \frac{1}{339}\sqrt{18802}e^{34},$ $\frac{2}{339}\sqrt{238}e^{15}$	$(-\frac{7}{113}, \frac{83}{339}, \frac{83}{339}, -\frac{119}{339}, \frac{62}{339}, \frac{62}{339}, -\frac{12}{113}, -\frac{12}{113}, \frac{41}{339})$ $-\frac{10}{339}\sqrt{357}e^3 \otimes e_7 + \frac{4}{339}\sqrt{2261}e^2 \otimes e_8$	{12349, 12679, 1358, 145678, 234569, 2579, 368, 478}
951:4	$0, 0, 0, 0, \frac{1}{339}\sqrt{6902}e^{12}, \frac{5}{339}\sqrt{238}e^{13}, \frac{7}{339}\sqrt{374}e^{24}, \frac{1}{339}\sqrt{18802}e^{34},$ $\frac{2}{339}\sqrt{238}e^{15}$	$(-\frac{7}{113}, \frac{83}{339}, \frac{83}{339}, -\frac{119}{339}, \frac{62}{339}, \frac{62}{339}, -\frac{12}{113}, -\frac{12}{113}, \frac{41}{339})$ $+\frac{10}{339}\sqrt{357}e^3 \otimes e_7 + \frac{4}{339}\sqrt{2261}e^2 \otimes e_8$	{12349, 12679, 1358, 145678, 234569, 2579, 368, 478}
951:4	$0, 0, 0, 0, \frac{4}{199}\sqrt{106}e^{12}, \frac{4}{199}\sqrt{61}e^{13}, \frac{4}{199}\sqrt{21}e^{24}, \frac{16}{199}\sqrt{10}e^{34},$ $\frac{12}{199}\sqrt{17}e^{15}$	$(\frac{19}{199}, -\frac{22}{199}, -\frac{29}{199}, \frac{32}{199}, -\frac{39}{199}, -\frac{10}{199}, \frac{10}{199}, \frac{3}{199}, \frac{16}{199})$ $+\frac{36}{199}\sqrt{2}e^4 \otimes e_9 + \frac{4}{199}\sqrt{195}e^1 \otimes e_8$	{129, 13456, 23589, 468}
951:4	$0, 0, 0, 0, \frac{1}{97}\sqrt{474}e^{12}, \frac{5}{291}\sqrt{158}e^{13}, \frac{2}{291}\sqrt{3397}e^{24}, \frac{2}{291}\sqrt{2370}e^{34},$ $\frac{1}{291}\sqrt{7426}e^{15}$	$(-\frac{5}{97}, -\frac{29}{291}, \frac{70}{291}, \frac{20}{291}, -\frac{44}{291}, \frac{55}{291}, -\frac{3}{97}, \frac{30}{97}, -\frac{59}{291})$ $+\frac{4}{291}\sqrt{1343}e^4 \otimes e_9 + \frac{5}{291}\sqrt{790}e^3 \otimes e_7$	{12345, 1389, 2346, 35689}
951:4	$0, 0, 0, 0, \frac{14}{1545}\sqrt{1903}e^{12}, \frac{14}{1545}\sqrt{737}e^{13}, \frac{7}{1545}\sqrt{22}e^{24},$ $\frac{28}{1545}\sqrt{770}e^{34}, \frac{77}{1545}\sqrt{58}e^{15}$	$(-\frac{70}{309}, \frac{186}{515}, \frac{397}{1545}, -\frac{126}{515}, \frac{208}{1545}, \frac{47}{1545}, \frac{12}{103}, \frac{19}{1545}, -\frac{142}{1545})$ $+\frac{14}{1545}\sqrt{3531}e^3 \otimes e_9 + \frac{266}{1545}\sqrt{11}e^2 \otimes e_8$	{129, 135678, 2569, 378}
951:4	$0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{4}{139}\sqrt{77}e^{13}, \frac{18}{139}\sqrt{14}e^{24}, \frac{4}{139}\sqrt{70}e^{34},$ $\frac{1}{139}\sqrt{658}e^{15}$	$(-\frac{51}{278}, \frac{26}{139}, -\frac{9}{278}, \frac{31}{139}, \frac{1}{278}, -\frac{30}{139}, \frac{57}{278}, -\frac{53}{139}, -\frac{25}{139})$ $+\frac{2}{139}\sqrt{1610}e^2 \otimes e_6 + \frac{4}{139}\sqrt{455}e^4 \otimes e_9$	{123789, 145678, 2579, 3467}
951:4	$0, 0, 0, 0, \frac{3}{511}\sqrt{570}e^{12}, \frac{1}{511}\sqrt{8702}e^{13}, \frac{3}{511}\sqrt{874}e^{24}, \frac{5}{511}\sqrt{38}e^{34},$ $\frac{2}{511}\sqrt{627}e^{15}$	$(\frac{3}{511}, -\frac{41}{511}, \frac{17}{511}, \frac{39}{511}, -\frac{38}{511}, \frac{20}{511}, -\frac{2}{511}, \frac{8}{73}, -\frac{5}{73})$ $+\frac{4}{511}\sqrt{570}e^3 \otimes e_7 + \frac{1}{511}\sqrt{570}e^4 \otimes e_6$	{123459, 125679, 3568, 4578}
951:4	$0, 0, 0, 0, \frac{28}{1797}\sqrt{263}e^{12}, \frac{2}{1797}\sqrt{60227}e^{13}, \frac{7}{1797}\sqrt{2630}e^{24},$ $\frac{2}{1797}\sqrt{88105}e^{34}, \frac{14}{1797}\sqrt{1315}e^{15}$	$(-\frac{82}{599}, \frac{326}{1797}, -\frac{34}{1797}, \frac{97}{1797}, \frac{80}{1797}, -\frac{280}{1797}, \frac{141}{599}, \frac{21}{599}, -\frac{166}{1797})$ $+\frac{1}{1797}\sqrt{412910}e^2 \otimes e_8 + \frac{2}{1797}\sqrt{109671}e^4 \otimes e_9$	{1279, 14578, 25679, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:4	$0, 0, 0, 0, \frac{2}{119}\sqrt{301}e^{12}, \frac{10}{119}\sqrt{43}e^{13}, \frac{4}{119}\sqrt{258}e^{24}, \frac{4}{119}\sqrt{430}e^{34}, \frac{8}{119}\sqrt{129}e^{15}$	$(-\frac{10}{119}, -\frac{11}{119}, \frac{5}{119}, \frac{55}{119}, -\frac{3}{17}, -\frac{5}{119}, \frac{44}{119}, \frac{60}{119}, -\frac{31}{119}) + \frac{6}{119}\sqrt{473}e^4 \otimes e_9$	{1236789, 1279, 134567, 14578, 235789, 25679, 347, 4678}
951:4	$0, 0, 0, 0, \frac{4}{3187}\sqrt{28667}e^{12}, \frac{28}{3187}\sqrt{1417}e^{13}, \frac{40}{3187}\sqrt{545}e^{24}, \frac{4}{3187}\sqrt{17767}e^{34}, \frac{20}{3187}\sqrt{3706}e^{15}$	$(\frac{176}{3187}, -\frac{398}{3187}, \frac{826}{3187}, -\frac{298}{3187}, -\frac{222}{3187}, \frac{1002}{3187}, -\frac{696}{3187}, \frac{528}{3187}, -\frac{46}{3187}) + \frac{4}{3187}\sqrt{137449}e^3 \otimes e_9 + \frac{4}{3187}\sqrt{170149}e^1 \otimes e_7$	{124689, 1358, 2579, 3467}
951:4	$0, 0, 0, 0, \frac{1}{71}\sqrt{590}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{3}{71}\sqrt{354}e^{24}, \frac{1}{71}\sqrt{1770}e^{34}, \frac{2}{71}\sqrt{177}e^{15}$	$(-\frac{17}{71}, \frac{39}{71}, -\frac{3}{71}, -\frac{1}{71}, \frac{22}{71}, -\frac{20}{71}, \frac{38}{71}, -\frac{4}{71}, \frac{5}{71}) + \frac{2}{71}\sqrt{1770}e^2 \otimes e_6$	{12348, 1237, 145679, 15689, 245, 2578, 346789, 369}
951:4	$0, 0, 0, 0, \frac{1}{1467}\sqrt{291846}e^{12}, \frac{1}{1467}\sqrt{9958}e^{13}, \frac{1}{1467}\sqrt{238226}e^{24}, \frac{1}{489}\sqrt{13022}e^{34}, \frac{4}{1467}\sqrt{13405}e^{15}$	$(\frac{179}{1467}, \frac{91}{1467}, \frac{1}{489}, -\frac{295}{1467}, \frac{30}{163}, \frac{182}{1467}, -\frac{68}{489}, -\frac{292}{1467}, \frac{449}{1467}) + \frac{2}{1467}\sqrt{117581}e^2 \otimes e_8 + \frac{2}{489}\sqrt{14554}e^1 \otimes e_7$	{12349, 1358, 2579, 478}
951:4	$0, 0, 0, 0, \frac{1}{25}\sqrt{286}e^{12}, \frac{2}{25}\sqrt{13}e^{13}, \frac{2}{25}\sqrt{39}e^{24}, \frac{1}{25}\sqrt{286}e^{34}, \frac{3}{25}\sqrt{26}e^{15}$	$(\frac{7}{25}, -\frac{1}{25}, -\frac{1}{5}, -\frac{1}{25}, \frac{6}{25}, \frac{2}{25}, -\frac{2}{25}, -\frac{6}{25}, \frac{13}{25}) + \frac{1}{25}\sqrt{546}e^1 \otimes e_8$	{1234679, 129, 13456, 157, 23589, 2456789, 378, 468}
951:4	$0, 0, 0, 0, \frac{1}{339}\sqrt{6902}e^{12}, \frac{5}{339}\sqrt{238}e^{13}, \frac{7}{339}\sqrt{374}e^{24}, \frac{1}{339}\sqrt{18802}e^{34}, \frac{2}{339}\sqrt{238}e^{15}$	$(-\frac{7}{113}, \frac{83}{339}, -\frac{67}{339}, \frac{31}{339}, \frac{62}{339}, -\frac{88}{339}, \frac{38}{113}, -\frac{12}{113}, \frac{41}{339}) + \frac{10}{339}\sqrt{357}e^4 \otimes e_6 + \frac{4}{339}\sqrt{2261}e^2 \otimes e_8$	{12349, 12679, 368, 478}
951:4	$0, 0, 0, 0, \frac{1}{99}\sqrt{6162}e^{12}, \frac{5}{99}\sqrt{158}e^{13}, \frac{1}{99}\sqrt{1106}e^{24}, \frac{1}{99}\sqrt{6162}e^{34}, \frac{2}{99}\sqrt{553}e^{15}$	$(-\frac{1}{9}, \frac{53}{99}, \frac{1}{33}, -\frac{29}{99}, \frac{14}{33}, -\frac{8}{99}, \frac{8}{33}, -\frac{26}{99}, \frac{31}{99}) + \frac{2}{99}\sqrt{3239}e^2 \otimes e_8$	{123469, 1279, 13568, 14578, 23459, 25679, 38, 4678}
951:4	$0, 0, 0, 0, \frac{1}{383}\sqrt{1778}e^{12}, \frac{1}{1915}\sqrt{170942}e^{13}, \frac{1}{1915}\sqrt{182118}e^{24}, \frac{1}{1915}\sqrt{104394}e^{34}, \frac{2}{1915}\sqrt{8382}e^{15}$	$(\frac{89}{1915}, \frac{111}{1915}, -\frac{21}{383}, -\frac{149}{1915}, \frac{40}{383}, -\frac{16}{1915}, -\frac{38}{1915}, -\frac{254}{1915}, \frac{289}{1915}) + \frac{4}{1915}\sqrt{14478}e^1 \otimes e_7 + \frac{6}{1915}\sqrt{5969}e^2 \otimes e_6$	{123489, 1568, 25789, 34678}
951:4	$0, 0, 0, 0, \frac{9}{397}\sqrt{38}e^{12}, \frac{9}{397}\sqrt{274}e^{13}, \frac{63}{397}\sqrt{6}e^{24}, \frac{45}{397}\sqrt{2}e^{34}, \frac{18}{397}\sqrt{15}e^{15}$	$(\frac{79}{397}, -\frac{89}{397}, -\frac{73}{397}, \frac{87}{397}, -\frac{10}{397}, \frac{6}{397}, -\frac{2}{397}, \frac{14}{397}, \frac{69}{397}) + \frac{18}{397}\sqrt{85}e^4 \otimes e_6 + \frac{18}{397}\sqrt{94}e^1 \otimes e_7$	{123458, 1689, 2367, 4579}
951:4	$0, 0, 0, 0, \frac{20}{407}\sqrt{30}e^{12}, \frac{10}{407}\sqrt{290}e^{13}, \frac{5}{407}\sqrt{690}e^{24}, \frac{10}{407}\sqrt{185}e^{34}, \frac{5}{407}\sqrt{330}e^{15}$	$(-\frac{60}{407}, \frac{20}{407}, \frac{25}{407}, \frac{90}{407}, -\frac{40}{407}, -\frac{35}{407}, \frac{10}{37}, \frac{115}{407}, -\frac{100}{407}) + \frac{10}{407}\sqrt{435}e^3 \otimes e_9 + \frac{40}{407}\sqrt{30}e^4 \otimes e_6$	{12345, 169, 23678, 45789}
951:4	$0, 0, 0, 0, \frac{252}{1291}e^{12}, \frac{9}{1291}\sqrt{5110}e^{13}, \frac{18}{1291}\sqrt{777}e^{24}, \frac{9}{1291}\sqrt{462}e^{34}, \frac{9}{1291}\sqrt{1498}e^{15}$	$(-\frac{378}{1291}, \frac{477}{1291}, \frac{288}{1291}, -\frac{105}{1291}, \frac{99}{1291}, -\frac{90}{1291}, \frac{372}{1291}, \frac{183}{1291}, -\frac{279}{1291}) + \frac{36}{1291}\sqrt{469}e^3 \otimes e_9 + \frac{99}{1291}\sqrt{70}e^2 \otimes e_6$	{24589, 2579, 3467, 368}
951:4	$0, 0, 0, 0, \frac{1}{71}\sqrt{1770}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{3}{71}\sqrt{354}e^{24}, \frac{1}{71}\sqrt{590}e^{34}, \frac{2}{71}\sqrt{177}e^{15}$	$(\frac{3}{71}, -\frac{1}{71}, \frac{37}{71}, -\frac{21}{71}, \frac{2}{71}, \frac{40}{71}, -\frac{22}{71}, \frac{16}{71}, \frac{5}{71}) + \frac{2}{71}\sqrt{1770}e^3 \otimes e_7$	{123459, 125679, 138, 14678, 23469, 279, 3568, 4578}
951:4	$0, 0, 0, 0, \frac{1}{71}\sqrt{1770}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{3}{71}\sqrt{354}e^{24}, \frac{1}{71}\sqrt{590}e^{34}, \frac{2}{71}\sqrt{177}e^{15}$	$(\frac{3}{71}, -\frac{1}{71}, -\frac{23}{71}, \frac{39}{71}, \frac{2}{71}, -\frac{20}{71}, \frac{38}{71}, \frac{16}{71}, \frac{5}{71}) + \frac{2}{71}\sqrt{1770}e^4 \otimes e_6$	{123459, 125679, 1347, 16, 236789, 2489, 3568, 4578}
951:4	$0, 0, 0, 0, \frac{21}{347}\sqrt{10}e^{12}, \frac{9}{347}\sqrt{238}e^{13}, \frac{3}{347}\sqrt{1946}e^{24}, \frac{21}{347}\sqrt{10}e^{34}, \frac{42}{347}\sqrt{3}e^{15}$	$(-\frac{49}{347}, \frac{83}{347}, \frac{69}{347}, -\frac{77}{347}, \frac{34}{347}, \frac{20}{347}, \frac{6}{347}, -\frac{8}{347}, -\frac{15}{347}) + \frac{24}{347}\sqrt{35}e^2 \otimes e_6 + \frac{24}{347}\sqrt{35}e^3 \otimes e_7$	{1234589, 1467, 2789, 356}
951:4	$0, 0, 0, 0, \frac{1}{1199}\sqrt{276218}e^{12}, \frac{1}{1199}\sqrt{494546}e^{13}, \frac{1}{1199}\sqrt{659946}e^{24}, \frac{1}{1199}\sqrt{272910}e^{34}, \frac{10}{1199}\sqrt{4962}e^{15}$	$(\frac{433}{1199}, -\frac{33}{109}, \frac{69}{1199}, -\frac{31}{1199}, \frac{70}{1199}, \frac{502}{1199}, -\frac{394}{1199}, \frac{38}{1199}, \frac{503}{1199}) + \frac{2}{1199}\sqrt{411846}e^1 \otimes e_7$	{123489, 12469, 135, 1568, 235679, 25789, 34678, 47}
951:4	$0, 0, 0, 0, \frac{1}{241}\sqrt{1290}e^{12}, \frac{1}{241}\sqrt{5}e^{13}, \frac{1}{241}\sqrt{915}e^{24}, \frac{1}{241}\sqrt{1910}e^{34}, \frac{1}{241}\sqrt{1605}e^{15}$	$(\frac{3}{241}, \frac{4}{241}, \frac{20}{241}, -\frac{27}{241}, \frac{7}{241}, \frac{23}{241}, -\frac{23}{241}, -\frac{7}{241}, \frac{10}{241}) + \frac{1}{241}\sqrt{2505}e^1 \otimes e_8 + \frac{2}{241}\sqrt{465}e^3 \otimes e_9$	{1269, 1345, 245789, 3678}
951:4	$0, 0, 0, 0, \frac{4}{1193}\sqrt{6546}e^{12}, \frac{2}{1193}\sqrt{76370}e^{13}, \frac{1}{1193}\sqrt{150558}e^{24}, \frac{2}{1193}\sqrt{204017}e^{34}, \frac{3}{1193}\sqrt{85098}e^{15}$	$(-\frac{324}{1193}, \frac{236}{1193}, \frac{679}{1193}, -\frac{90}{1193}, -\frac{88}{1193}, \frac{355}{1193}, \frac{146}{1193}, \frac{589}{1193}, -\frac{412}{1193}) + \frac{2}{1193}\sqrt{533499}e^3 \otimes e_9$	{1246789, 1269, 1345, 13578, 245789, 259, 346, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:5	$0, 0, 0, 0, \frac{1}{28}\sqrt{70}e^{12}, \frac{5}{56}\sqrt{14}e^{13}, \frac{1}{28}\sqrt{14}e^{23}, \frac{1}{14}\sqrt{21}e^{14}, \frac{1}{56}\sqrt{518}e^{15}$	$(\frac{1}{16}, -\frac{1}{8}, \frac{1}{4}, -\frac{3}{16}, -\frac{1}{16}, \frac{5}{16}, \frac{1}{8}, -\frac{1}{8}, 0) + \frac{1}{56}\sqrt{658}e^3 \otimes e_9 + \frac{1}{56}\sqrt{770}e^1 \otimes e_4$	{12679, 1357, 24579, 3467}
951:5	$0, 0, 0, 0, \frac{10}{1837}\sqrt{786}e^{12}, \frac{60}{1837}\sqrt{2}e^{13}, \frac{15}{1837}\sqrt{514}e^{23}, \frac{10}{1837}\sqrt{1290}e^{14}, \frac{15}{1837}\sqrt{178}e^{15}$	$(-\frac{10}{1837}, -\frac{140}{1837}, \frac{15}{167}, \frac{100}{1837}, -\frac{150}{1837}, \frac{155}{1837}, \frac{25}{1837}, \frac{90}{1837}, -\frac{160}{1837}) + \frac{5}{1837}\sqrt{5118}e^4 \otimes e_7 + \frac{5}{1837}\sqrt{5262}e^3 \otimes e_8$	{123459, 1256789, 3567, 458}
951:5	$0, 0, 0, 0, \frac{4}{119}\sqrt{87}e^{12}, \frac{1}{119}\sqrt{899}e^{13}, \frac{1}{119}\sqrt{1537}e^{23}, \frac{1}{119}\sqrt{290}e^{14}, \frac{1}{119}\sqrt{986}e^{15}$	$(\frac{10}{119}, \frac{10}{119}, -\frac{29}{119}, \frac{8}{119}, \frac{20}{119}, -\frac{19}{119}, -\frac{19}{119}, \frac{18}{119}, \frac{30}{119}) + \frac{1}{119}\sqrt{2755}e^2 \otimes e_6 + \frac{3}{119}\sqrt{377}e^1 \otimes e_7$	{12349, 12389, 1456, 1568, 245789, 2579, 34678, 367}
951:5	$0, 0, 0, 0, \frac{4}{119}\sqrt{87}e^{12}, \frac{1}{119}\sqrt{899}e^{13}, \frac{1}{119}\sqrt{1537}e^{23}, \frac{1}{119}\sqrt{290}e^{14}, \frac{1}{119}\sqrt{986}e^{15}$	$(\frac{10}{119}, \frac{10}{119}, -\frac{29}{119}, \frac{8}{119}, \frac{20}{119}, -\frac{19}{119}, -\frac{19}{119}, \frac{18}{119}, \frac{30}{119}) - \frac{1}{119}\sqrt{2755}e^2 \otimes e_6 + \frac{3}{119}\sqrt{377}e^1 \otimes e_7$	{12349, 12389, 1456, 1568, 245789, 2579, 34678, 367}
951:5	$0, 0, 0, 0, \frac{3}{1807}\sqrt{14338}e^{12}, \frac{3}{1807}\sqrt{52930}e^{13}, \frac{3}{1807}\sqrt{58290}e^{23}, \frac{201}{1807}\sqrt{6}e^{14}, \frac{3}{1807}\sqrt{37654}e^{15}$	$(-\frac{402}{1807}, \frac{408}{1807}, \frac{207}{1807}, \frac{381}{1807}, \frac{6}{1807}, -\frac{15}{1807}, \frac{615}{1807}, -\frac{21}{1807}, -\frac{396}{1807}) + \frac{3}{1807}\sqrt{114838}e^3 \otimes e_9 + \frac{6}{1807}\sqrt{25795}e^2 \otimes e_6$	{24579, 25789, 3467, 3678}
951:5	$0, 0, 0, 0, \frac{1}{217}\sqrt{462}e^{12}, \frac{1}{217}\sqrt{6006}e^{13}, \frac{2}{217}\sqrt{1155}e^{23}, \frac{6}{217}\sqrt{231}e^{14}, \frac{1}{217}\sqrt{2002}e^{15}$	$(\frac{23}{217}, -\frac{9}{217}, -\frac{45}{217}, \frac{55}{217}, \frac{2}{31}, -\frac{22}{217}, -\frac{54}{217}, \frac{78}{217}, \frac{37}{217}) + \frac{1}{217}\sqrt{13090}e^4 \otimes e_6 + \frac{6}{217}\sqrt{462}e^1 \otimes e_7$	{12349, 1568, 245789, 367}
951:5	$0, 0, 0, 0, \frac{4}{1523}\sqrt{7070}e^{12}, \frac{2}{1523}\sqrt{92415}e^{13}, \frac{3}{1523}\sqrt{47470}e^{23}, \frac{2}{1523}\sqrt{71205}e^{14}, \frac{4}{1523}\sqrt{10605}e^{15}$	$(-\frac{224}{1523}, \frac{424}{1523}, \frac{143}{1523}, -\frac{138}{1523}, \frac{200}{1523}, -\frac{81}{1523}, \frac{567}{1523}, -\frac{362}{1523}, -\frac{24}{1523}) + \frac{1}{1523}\sqrt{596910}e^2 \otimes e_6 + \frac{1}{1523}\sqrt{198970}e^3 \otimes e_8$	{123459, 168, 24789, 3567}
951:5	$0, 0, 0, 0, \frac{4}{3753}\sqrt{37666}e^{12}, \frac{2}{3753}\sqrt{111471}e^{13}, \frac{2}{3753}\sqrt{375133}e^{23}, \frac{14}{1251}\sqrt{1018}e^{14}, \frac{2}{3753}\sqrt{524270}e^{15}$	$(\frac{299}{3753}, -\frac{617}{3753}, -\frac{34}{1251}, \frac{37}{139}, -\frac{106}{1251}, \frac{197}{3753}, -\frac{719}{3753}, \frac{1298}{3753}, -\frac{19}{3753}) + \frac{2}{3753}\sqrt{745685}e^4 \otimes e_9 + \frac{8}{1251}\sqrt{6617}e^1 \otimes e_7$	{123689, 145, 25679, 3478}
951:5	$0, 0, 0, 0, \frac{2}{571}\sqrt{26078}e^{12}, \frac{2}{571}\sqrt{22763}e^{13}, \frac{4}{571}\sqrt{14586}e^{23}, \frac{2}{571}\sqrt{60554}e^{14}, \frac{2}{571}\sqrt{6630}e^{15}$	$(\frac{58}{571}, -\frac{65}{571}, -\frac{80}{571}, \frac{297}{571}, -\frac{7}{571}, -\frac{22}{571}, -\frac{145}{571}, \frac{355}{571}, \frac{51}{571}) + \frac{14}{571}\sqrt{2210}e^4 \otimes e_7$	{1234569, 125789, 13678, 14, 23489, 2679, 357, 4568}
951:5	$0, 0, 0, 0, \frac{1}{1147}\sqrt{541994}e^{12}, \frac{4}{1147}\sqrt{27687}e^{13}, \frac{2}{1147}\sqrt{168639}e^{23}, \frac{1}{1147}\sqrt{780270}e^{14}, \frac{3}{1147}\sqrt{35238}e^{15}$	$(-\frac{55}{1147}, \frac{83}{1147}, \frac{13}{31}, -\frac{303}{1147}, \frac{28}{1147}, \frac{426}{1147}, \frac{564}{1147}, -\frac{358}{1147}, -\frac{27}{1147}) + \frac{1}{1147}\sqrt{1652830}e^3 \otimes e_8$	{123459, 1256789, 1347, 168, 2369, 24789, 3567, 458}
951:5	$0, 0, 0, 0, \frac{30}{3797}\sqrt{753}e^{12}, \frac{2}{3797}\sqrt{105671}e^{13}, \frac{2}{3797}\sqrt{296431}e^{23}, \frac{4}{3797}\sqrt{63503}e^{14}, \frac{26}{3797}\sqrt{753}e^{15}$	$(\frac{339}{3797}, \frac{213}{3797}, -\frac{376}{3797}, -\frac{628}{3797}, \frac{552}{3797}, -\frac{37}{3797}, -\frac{163}{3797}, -\frac{289}{3797}, \frac{891}{3797}) + \frac{2}{3797}\sqrt{422935}e^2 \otimes e_8 + \frac{48}{3797}\sqrt{753}e^1 \otimes e_7$	{123469, 158, 25679, 3478}
951:5	$0, 0, 0, 0, \frac{1}{255}\sqrt{1610}e^{12}, \frac{2}{255}\sqrt{115}e^{13}, \frac{4}{255}\sqrt{1265}e^{23}, \frac{1}{255}\sqrt{13570}e^{14}, \frac{2}{51}\sqrt{23}e^{15}$	$(-\frac{13}{255}, \frac{43}{255}, -\frac{59}{255}, \frac{33}{85}, \frac{2}{17}, \frac{24}{85}, -\frac{16}{255}, \frac{86}{255}, \frac{1}{15}) + \frac{1}{255}\sqrt{22310}e^2 \otimes e_6 + \frac{1}{255}\sqrt{30130}e^4 \otimes e_7$	{125789, 13678, 23489, 4568}
951:5	$0, 0, 0, 0, \frac{8}{445}\sqrt{182}e^{12}, \frac{56}{445}\sqrt{15}e^{13}, \frac{8}{445}\sqrt{273}e^{23}, \frac{8}{445}\sqrt{182}e^{14}, \frac{8}{445}\sqrt{273}e^{15}$	$(\frac{52}{445}, -\frac{14}{445}, \frac{104}{445}, -\frac{172}{445}, \frac{38}{445}, \frac{156}{445}, \frac{18}{89}, -\frac{24}{89}, \frac{18}{89}) + \frac{8}{445}\sqrt{1379}e^1 \otimes e_4 + \frac{8}{445}\sqrt{1379}e^3 \otimes e_8$	{126789, 1568, 245789, 48}
951:5	$0, 0, 0, 0, \frac{1}{11}\sqrt{10}e^{12}, \frac{10}{33}\sqrt{e^{13}}, \frac{2}{33}\sqrt{15}e^{23}, \frac{1}{33}\sqrt{130}e^{14}, \frac{1}{33}\sqrt{70}e^{15}$	$(-\frac{5}{33}, \frac{5}{33}, \frac{1}{11}, \frac{1}{11}, 0, -\frac{2}{33}, \frac{8}{33}, -\frac{2}{33}, -\frac{5}{33}) + \frac{1}{33}\sqrt{170}e^3 \otimes e_8 - \frac{2}{33}\sqrt{35}e^4 \otimes e_6$	{123459, 1256789, 1347, 168, 2369, 24789, 3567, 458}
951:5	$0, 0, 0, 0, \frac{5}{333}\sqrt{58}e^{12}, \frac{1}{333}\sqrt{870}e^{13}, \frac{8}{333}\sqrt{290}e^{23}, \frac{2}{333}\sqrt{8555}e^{14}, \frac{29}{333}\sqrt{10}e^{15}$	$(-\frac{7}{37}, \frac{131}{333}, -\frac{11}{111}, \frac{49}{333}, \frac{68}{333}, -\frac{32}{111}, \frac{98}{333}, -\frac{14}{333}, \frac{5}{333}) + \frac{1}{333}\sqrt{38570}e^4 \otimes e_6 + \frac{2}{333}\sqrt{12035}e^2 \otimes e_8$	{1234, 15689, 2356, 489}
951:5	$0, 0, 0, 0, \frac{8}{311}\sqrt{201}e^{12}, \frac{12}{311}\sqrt{170}e^{13}, \frac{4}{311}\sqrt{834}e^{23}, \frac{4}{311}\sqrt{618}e^{14}, \frac{24}{311}\sqrt{10}e^{15}$	$(-\frac{63}{311}, \frac{30}{311}, \frac{48}{311}, \frac{129}{311}, -\frac{33}{311}, -\frac{15}{311}, \frac{78}{311}, \frac{66}{311}, -\frac{96}{311}) + \frac{4}{311}\sqrt{2370}e^4 \otimes e_6 + \frac{4}{311}\sqrt{2658}e^3 \otimes e_9$	{12345, 1689, 236, 4589}
951:5	$0, 0, 0, 0, \frac{2}{1193}\sqrt{167118}e^{12}, \frac{14}{1193}\sqrt{3287}e^{13}, \frac{7}{1193}\sqrt{10726}e^{23}, \frac{2}{1193}\sqrt{71449}e^{14}, \frac{2}{1193}\sqrt{12110}e^{15}$	$(-\frac{236}{1193}, \frac{700}{1193}, -\frac{275}{1193}, \frac{326}{1193}, \frac{464}{1193}, -\frac{511}{1193}, \frac{425}{1193}, \frac{90}{1193}, \frac{228}{1193}) + \frac{1}{1193}\sqrt{2385670}e^2 \otimes e_6$	{123489, 1239, 14568, 156, 24579, 25789, 3467, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:5	$0, 0, 0, 0, \frac{4}{297}\sqrt{314}e^{12}, \frac{2}{297}\sqrt{8007}e^{13}, \frac{2}{297}\sqrt{5809}e^{23}, \frac{2}{99}\sqrt{1570}e^{14}, \frac{2}{297}\sqrt{13502}e^{15}$	$(-\frac{65}{297}, \frac{23}{297}, \frac{2}{9}, \frac{23}{33}, -\frac{14}{99}, \frac{1}{297}, \frac{89}{297}, \frac{142}{297}, -\frac{107}{297}) + \frac{14}{297}\sqrt{785}e^4 \otimes e_9$	{123456, 12457, 136789, 189, 2348, 24678, 3579, 569}
951:5	$0, 0, 0, 0, \frac{252}{3461}\sqrt{10}e^{12}, \frac{18}{3461}\sqrt{5691}e^{13}, \frac{18}{3461}\sqrt{6090}e^{23}, \frac{36}{3461}\sqrt{2065}e^{14}, \frac{18}{3461}\sqrt{3178}e^{15}$	$(-\frac{756}{3461}, \frac{927}{3461}, \frac{288}{3461}, \frac{549}{3461}, \frac{171}{3461}, -\frac{468}{3461}, \frac{1215}{3461}, -\frac{207}{3461}, -\frac{585}{3461}) + \frac{36}{3461}\sqrt{2422}e^4 \otimes e_9 + \frac{36}{3461}\sqrt{3031}e^2 \otimes e_8$	{2359, 25679, 3478, 468}
951:5	$0, 0, 0, 0, \frac{2}{3445}\sqrt{505563}e^{12}, \frac{2}{3445}\sqrt{359885}e^{13}, \frac{8}{3445}\sqrt{3017}e^{23}, \frac{2}{3445}\sqrt{343507}e^{14}, \frac{4}{265}\sqrt{431}e^{15}$	$(\frac{179}{3445}, \frac{47}{265}, -\frac{86}{689}, -\frac{683}{3445}, \frac{158}{689}, -\frac{251}{3445}, \frac{181}{3445}, -\frac{504}{3445}, \frac{969}{3445}) + \frac{2}{3445}\sqrt{594349}e^2 \otimes e_6 + \frac{6}{3445}\sqrt{84907}e^1 \otimes e_4$	{12379, 1567, 2459, 346}
951:5	$0, 0, 0, 0, \frac{1}{239}\sqrt{8018}e^{12}, \frac{3}{239}\sqrt{2110}e^{13}, \frac{1}{239}\sqrt{29962}e^{23}, \frac{1}{239}\sqrt{8018}e^{14}, \frac{1}{239}\sqrt{29962}e^{15}$	$(-\frac{38}{239}, -\frac{12}{239}, \frac{123}{239}, \frac{59}{239}, -\frac{50}{239}, \frac{85}{239}, \frac{111}{239}, \frac{21}{239}, -\frac{88}{239}) + \frac{1}{239}\sqrt{83978}e^3 \otimes e_9$	{123458, 1235, 14689, 169, 2346, 2368, 459, 589}
951:5	$0, 0, 0, 0, \frac{2}{1651}\sqrt{16298}e^{12}, \frac{1}{1651}\sqrt{133194}e^{13}, \frac{2}{1651}\sqrt{71655}e^{23}, \frac{2}{1651}\sqrt{69126}e^{14}, \frac{6}{1651}\sqrt{843}e^{15}$	$(\frac{224}{1651}, -\frac{232}{1651}, \frac{175}{1651}, -\frac{330}{1651}, -\frac{8}{1651}, \frac{399}{1651}, -\frac{57}{1651}, -\frac{106}{1651}, \frac{216}{1651}) + \frac{27}{1651}\sqrt{562}e^1 \otimes e_7 + \frac{4}{1651}\sqrt{26695}e^3 \otimes e_8$	{12345, 1689, 2478, 35679}
951:5	$0, 0, 0, 0, \frac{2}{2731}\sqrt{220274}e^{12}, \frac{10}{2731}\sqrt{482}e^{13}, \frac{6}{2731}\sqrt{57358}e^{23}, \frac{2}{2731}\sqrt{286790}e^{14}, \frac{4}{2731}\sqrt{33981}e^{15}$	$(-\frac{125}{2731}, -\frac{344}{2731}, \frac{370}{2731}, \frac{990}{2731}, \frac{469}{2731}, \frac{245}{2731}, \frac{26}{2731}, \frac{865}{2731}, -\frac{594}{2731}) + \frac{2}{2731}\sqrt{633830}e^4 \otimes e_7 + \frac{4}{2731}\sqrt{138093}e^3 \otimes e_9$	{123456, 149, 2348, 45689}
951:5	$0, 0, 0, 0, \frac{4}{2961}\sqrt{78986}e^{12}, \frac{2}{2961}\sqrt{95757}e^{13}, \frac{2}{2961}\sqrt{406291}e^{23}, \frac{2}{2961}\sqrt{600510}e^{14}, \frac{2}{2961}\sqrt{20558}e^{15}$	$(-\frac{65}{423}, \frac{17}{423}, \frac{102}{329}, \frac{97}{987}, -\frac{16}{141}, \frac{463}{2961}, \frac{1037}{2961}, -\frac{164}{2961}, -\frac{113}{423}) + \frac{2}{2961}\sqrt{603215}e^4 \otimes e_9 + \frac{4}{2961}\sqrt{210990}e^3 \otimes e_8$	{12345, 1689, 2478, 35679}
951:5	$0, 0, 0, 0, \frac{1}{11}\sqrt{10}e^{12}, \frac{10}{33}e^{13}, \frac{2}{33}\sqrt{15}e^{23}, \frac{1}{33}\sqrt{130}e^{14}, \frac{1}{33}\sqrt{70}e^{15}$	$(-\frac{5}{33}, \frac{5}{33}, \frac{1}{11}, \frac{1}{11}, 0, -\frac{2}{33}, \frac{8}{33}, -\frac{2}{33}, -\frac{5}{33}) + \frac{1}{33}\sqrt{170}e^3 \otimes e_8 + \frac{2}{33}\sqrt{35}e^4 \otimes e_6$	{123459, 1256789, 1347, 168, 2369, 24789, 3567, 458}
951:5	$0, 0, 0, 0, \frac{1}{1147}\sqrt{780270}e^{12}, \frac{4}{1147}\sqrt{27687}e^{13}, \frac{3}{1147}\sqrt{35238}e^{23}, \frac{1}{1147}\sqrt{541994}e^{14}, \frac{2}{1147}\sqrt{168639}e^{15}$	$(\frac{339}{1147}, -\frac{114}{1147}, \frac{87}{1147}, -\frac{500}{1147}, \frac{225}{1147}, \frac{426}{1147}, -\frac{27}{1147}, -\frac{161}{1147}, \frac{564}{1147}) + \frac{1}{1147}\sqrt{1652830}e^1 \otimes e_4$	{12379, 1269, 135, 1567, 2345679, 2459, 346, 47}
951:5	$0, 0, 0, 0, \frac{6}{149}\sqrt{177}e^{12}, \frac{2}{149}\sqrt{2183}e^{13}, \frac{2}{149}\sqrt{3127}e^{23}, \frac{4}{149}\sqrt{767}e^{14}, \frac{2}{149}\sqrt{177}e^{15}$	$(-\frac{21}{149}, \frac{69}{149}, \frac{8}{149}, -\frac{28}{149}, \frac{48}{149}, -\frac{13}{149}, \frac{77}{149}, -\frac{49}{149}, \frac{27}{149}) + \frac{10}{149}\sqrt{295}e^2 \otimes e_8$	{123469, 12479, 135678, 158, 2359, 25679, 3478, 468}
951:5	$0, 0, 0, 0, \frac{4}{2609}\sqrt{53130}e^{12}, \frac{14}{2609}\sqrt{1265}e^{13}, \frac{70}{2609}\sqrt{253}e^{23}, \frac{2}{2609}\sqrt{1610}e^{14}, \frac{2}{2609}\sqrt{301070}e^{15}$	$(-\frac{629}{2609}, \frac{847}{2609}, -\frac{134}{2609}, \frac{1199}{2609}, \frac{218}{2609}, -\frac{763}{2609}, \frac{713}{2609}, \frac{570}{2609}, -\frac{411}{2609}) + \frac{14}{2609}\sqrt{18285}e^4 \otimes e_9 + \frac{8}{2609}\sqrt{58765}e^2 \otimes e_6$	{12389, 1456, 2579, 34678}
951:5	$0, 0, 0, 0, \frac{12}{3773}\sqrt{530}e^{12}, \frac{106}{3773}\sqrt{51}e^{13}, \frac{2}{3773}\sqrt{254082}e^{23}, \frac{4}{3773}\sqrt{65667}e^{14}, \frac{18}{3773}\sqrt{318}e^{15}$	$(-\frac{204}{3773}, \frac{73}{539}, -\frac{432}{3773}, \frac{397}{3773}, \frac{307}{3773}, -\frac{636}{3773}, \frac{79}{3773}, \frac{193}{3773}, \frac{103}{3773}) + \frac{4}{3773}\sqrt{68529}e^2 \otimes e_8 + \frac{4}{3773}\sqrt{70914}e^4 \otimes e_7$	{1234569, 13678, 2679, 4568}
951:5	$0, 0, 0, 0, \frac{1}{383}\sqrt{2278}e^{12}, \frac{3}{383}\sqrt{670}e^{13}, \frac{1}{383}\sqrt{14338}e^{23}, \frac{1}{383}\sqrt{2278}e^{14}, \frac{1}{383}\sqrt{14338}e^{15}$	$(\frac{34}{383}, -\frac{84}{383}, \frac{51}{383}, \frac{23}{383}, -\frac{50}{383}, \frac{85}{383}, -\frac{33}{383}, \frac{57}{383}, -\frac{16}{383}) + \frac{1}{383}\sqrt{21842}e^3 \otimes e_9 + \frac{6}{383}\sqrt{670}e^1 \otimes e_7$	{245789, 2579, 34678, 367}
951:5	$0, 0, 0, 0, \frac{1}{327}\sqrt{4389}e^{12}, \frac{1}{327}\sqrt{3990}e^{13}, \frac{7}{327}\sqrt{589}e^{23}, \frac{1}{327}\sqrt{12502}e^{14}, \frac{19}{327}\sqrt{35}e^{15}$	$(-\frac{39}{218}, \frac{65}{327}, \frac{27}{109}, -\frac{19}{654}, \frac{13}{654}, \frac{15}{218}, \frac{146}{327}, -\frac{68}{327}, -\frac{52}{327}) + \frac{1}{327}\sqrt{36442}e^3 \otimes e_9 + \frac{1}{327}\sqrt{40565}e^2 \otimes e_8$	{12479, 135678, 25679, 3478}
951:5	$0, 0, 0, 0, \frac{2}{253}\sqrt{4026}e^{12}, \frac{1}{253}\sqrt{4026}e^{13}, \frac{6}{253}\sqrt{671}e^{23}, \frac{2}{253}\sqrt{4026}e^{14}, \frac{6}{253}\sqrt{671}e^{15}$	$(\frac{8}{23}, -\frac{64}{253}, -\frac{31}{253}, \frac{2}{253}, \frac{24}{253}, \frac{57}{253}, -\frac{95}{253}, \frac{90}{253}, \frac{112}{253}) + \frac{3}{253}\sqrt{8418}e^1 \otimes e_7$	{12349, 12389, 1456, 1568, 245789, 2579, 34678, 367}
951:5	$0, 0, 0, 0, \frac{1}{1123}\sqrt{448890}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{2}{1123}\sqrt{3453}e^{23}, \frac{6}{1123}\sqrt{24171}e^{14}, \frac{1}{1123}\sqrt{453494}e^{15}$	$(-\frac{199}{1123}, \frac{369}{1123}, -\frac{207}{1123}, \frac{745}{1123}, \frac{170}{1123}, -\frac{406}{1123}, \frac{162}{1123}, \frac{546}{1123}, -\frac{29}{1123}) + \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_6$	{1234579, 125689, 134, 1678, 23679, 2489, 356, 4578}
951:6	$0, 0, 0, 0, \frac{2}{529}\sqrt{1909}e^{12}, \frac{8}{529}\sqrt{415}e^{13}, \frac{1}{529}\sqrt{9130}e^{23}, \frac{2}{529}\sqrt{2158}e^{14}, \frac{2}{529}\sqrt{6557}e^{15}$	$(-\frac{104}{529}, \frac{42}{529}, \frac{63}{529}, \frac{102}{529}, -\frac{62}{529}, -\frac{41}{529}, \frac{105}{529}, -\frac{2}{529}, -\frac{20}{529}) + \frac{1}{529}\sqrt{41666}e^2 \otimes e_6 + \frac{2}{529}\sqrt{9462}e^3 \otimes e_9$	{145689, 1569, 3467, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:6	$0, 0, 0, 0, \frac{1}{13}\sqrt{5}e^{12}, \frac{1}{26}\sqrt{30}e^{13}, \frac{3}{13}\sqrt{2}e^{23}, \frac{1}{26}\sqrt{66}e^{14},$ $\frac{3}{26}\sqrt{2}e^{25}$	$(\frac{2}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{3}{13}, \frac{1}{13}, \frac{3}{13}, 0, -\frac{1}{13}, 0)$ $+\frac{3}{26}\sqrt{10}e^1 \otimes e_7 + \frac{5}{13}e^3 \otimes e_8$	{123459, 1689, 2478, 3567}
951:6	$0, 0, 0, 0, \frac{2}{849}\sqrt{5190}e^{12}, \frac{2}{849}\sqrt{5190}e^{13}, \frac{2}{849}\sqrt{17473}e^{23}, \frac{2}{849}\sqrt{45499}e^{14},$ $\frac{22}{849}\sqrt{173}e^{25}$	$(\frac{161}{849}, -\frac{51}{283}, -\frac{32}{849}, \frac{67}{283}, \frac{8}{849}, \frac{43}{283}, -\frac{185}{849}, \frac{362}{849}, -\frac{145}{849})$ $+\frac{2}{849}\sqrt{63145}e^4 \otimes e_9 + \frac{2}{849}\sqrt{66605}e^1 \otimes e_7$	{12389, 15689, 24578, 34678}
951:6	$0, 0, 0, 0, \frac{1}{83}\sqrt{30}e^{12}, \frac{1}{83}\sqrt{1005}e^{13}, \frac{2}{83}\sqrt{165}e^{23}, \frac{1}{83}\sqrt{1335}e^{14},$ $\frac{3}{83}\sqrt{5}e^{25}$	$(\frac{10}{83}, -\frac{1}{83}, -\frac{19}{83}, \frac{21}{83}, \frac{9}{83}, -\frac{9}{83}, -\frac{20}{83}, \frac{31}{83}, \frac{8}{83})$ $+\frac{3}{83}\sqrt{230}e^4 \otimes e_6 + \frac{3}{83}\sqrt{265}e^1 \otimes e_7$	{123459, 1689, 2478, 3567}
951:6	$0, 0, 0, 0, \frac{5}{98}\sqrt{37}e^{12}, \frac{5}{98}\sqrt{37}e^{13}, \frac{1}{98}\sqrt{37}e^{23}, \frac{1}{98}\sqrt{629}e^{14},$ $\frac{1}{98}\sqrt{2405}e^{25}$	$(-\frac{11}{49}, \frac{27}{196}, -\frac{3}{196}, \frac{3}{7}, -\frac{17}{196}, -\frac{47}{196}, \frac{6}{49}, \frac{10}{49}, \frac{5}{98})$ $+\frac{1}{98}\sqrt{2886}e^4 \otimes e_9 + \frac{1}{98}\sqrt{3515}e^2 \otimes e_6$	{12389, 15689, 24578, 34678}
951:6	$0, 0, 0, 0, \frac{83}{621}\sqrt{6}e^{12}, \frac{1}{207}\sqrt{10790}e^{13}, \frac{7}{621}\sqrt{498}e^{23}, \frac{2}{621}\sqrt{8715}e^{14},$ $\frac{1}{207}\sqrt{5810}e^{25}$	$(-\frac{13}{69}, -\frac{2}{207}, \frac{40}{207}, \frac{28}{69}, -\frac{41}{207}, \frac{1}{207}, \frac{38}{23}, \frac{5}{207}, -\frac{43}{207})$ $+\frac{1}{621}\sqrt{127986}e^4 \otimes e_6 + \frac{1}{621}\sqrt{148902}e^3 \otimes e_9$	{12345, 1347, 24789, 4589}
951:6	$0, 0, 0, 0, \frac{2}{1265}\sqrt{108309}e^{12}, \frac{2}{1265}\sqrt{249522}e^{13}, \frac{2}{1265}\sqrt{15081}e^{23},$ $\frac{1}{1265}\sqrt{967926}e^{14}, \frac{9}{1265}\sqrt{2742}e^{25}$	$(-\frac{338}{1265}, \frac{64}{253}, -\frac{11}{115}, \frac{912}{1265}, -\frac{18}{1265}, -\frac{459}{1265}, \frac{199}{1265}, \frac{574}{1265}, \frac{302}{1265})$ $+\frac{6}{1265}\sqrt{79518}e^4 \otimes e_6$	{123457, 12568, 134, 1678, 23679, 2489, 3569, 45789}
951:6	$0, 0, 0, 0, \frac{1}{395}\sqrt{3270}e^{12}, \frac{6}{395}\sqrt{15}e^{13}, \frac{1}{395}\sqrt{5790}e^{23}, \frac{6}{395}\sqrt{145}e^{14},$ $\frac{3}{395}\sqrt{190}e^{25}$	$(-\frac{5}{79}, -\frac{1}{79}, \frac{29}{395}, \frac{39}{395}, -\frac{6}{79}, \frac{4}{395}, \frac{24}{395}, \frac{14}{395}, -\frac{7}{79})$ $+\frac{1}{395}\sqrt{5730}e^4 \otimes e_7 + \frac{1}{395}\sqrt{1365}e^3 \otimes e_8$	{1234569, 125789, 357, 4568}
951:6	$0, 0, 0, 0, \frac{4}{3289}\sqrt{63638}e^{12}, \frac{8}{3289}\sqrt{48067}e^{13}, \frac{2}{3289}\sqrt{69731}e^{23},$ $\frac{28}{3289}\sqrt{1354}e^{14}, \frac{2}{3289}\sqrt{442081}e^{25}$	$(\frac{59}{299}, -\frac{590}{3289}, \frac{823}{3289}, -\frac{705}{3289}, \frac{59}{3289}, \frac{64}{3289}, \frac{233}{3289}, -\frac{56}{3289}, -\frac{531}{3289})$ $+\frac{2}{3289}\sqrt{970141}e^1 \otimes e_4 + \frac{8}{3289}\sqrt{64315}e^3 \otimes e_9$	{1269, 15679, 234567, 346}
951:6	$0, 0, 0, 0, \frac{1}{41}\sqrt{682}e^{12}, \frac{1}{41}\sqrt{682}e^{13}, \frac{2}{41}\sqrt{31}e^{23}, \frac{1}{41}\sqrt{310}e^{14},$ $\frac{1}{41}\sqrt{806}e^{25}$	$(-\frac{10}{41}, \frac{15}{41}, -\frac{6}{41}, \frac{12}{41}, \frac{5}{41}, -\frac{16}{41}, \frac{9}{41}, \frac{2}{41}, \frac{20}{41})$ $+\frac{2}{41}\sqrt{527}e^2 \otimes e_6$	{123489, 1239, 145689, 1569, 2457, 2578, 3467, 3678}
951:6	$0, 0, 0, 0, \frac{1}{1309}\sqrt{451542}e^{12}, \frac{5}{1309}\sqrt{18194}e^{13}, \frac{4}{1309}\sqrt{33907}e^{23},$ $\frac{1}{1309}\sqrt{722798}e^{14}, \frac{1}{1309}\sqrt{540858}e^{25}$	$(-\frac{222}{1309}, \frac{381}{1309}, \frac{160}{1309}, -\frac{32}{187}, \frac{159}{1309}, -\frac{62}{1309}, \frac{541}{1309}, -\frac{446}{1309}, \frac{540}{1309})$ $+\frac{4}{1309}\sqrt{113299}e^2 \otimes e_8$	{123469, 12479, 1356789, 1589, 235, 2567, 3478, 468}
951:6	$0, 0, 0, 0, \frac{2}{2965}\sqrt{127801}e^{12}, \frac{2}{2965}\sqrt{51233}e^{13}, \frac{2}{2965}\sqrt{249409}e^{23},$ $\frac{2}{2965}\sqrt{530909}e^{14}, \frac{2}{2965}\sqrt{287693}e^{25}$	$(-\frac{728}{2965}, \frac{159}{593}, -\frac{1}{2965}, \frac{397}{2965}, \frac{67}{2965}, -\frac{729}{2965}, \frac{794}{2965}, -\frac{331}{2965}, \frac{862}{2965})$ $+\frac{2}{2965}\sqrt{556807}e^4 \otimes e_6 + \frac{2}{593}\sqrt{36595}e^2 \otimes e_8$	{12479, 1356789, 2567, 3478}
951:6	$0, 0, 0, 0, \frac{1}{64}\sqrt{305}e^{12}, \frac{1}{64}\sqrt{305}e^{13}, \frac{1}{32}\sqrt{61}e^{23}, \frac{1}{64}\sqrt{2806}e^{14},$ $\frac{1}{32}\sqrt{671}e^{25}$	$(-\frac{7}{64}, -\frac{13}{128}, \frac{31}{64}, \frac{41}{64}, -\frac{27}{128}, \frac{17}{128}, \frac{9}{64}, \frac{17}{32}, -\frac{5}{16})$ $+\frac{1}{64}\sqrt{6466}e^4 \otimes e_9$	{1234567, 1245, 1346, 147, 2379, 269, 359, 5679}
951:6	$0, 0, 0, 0, \frac{12}{307}\sqrt{453}e^{12}, \frac{12}{307}\sqrt{453}e^{13}, \frac{2}{307}\sqrt{10419}e^{23}, \frac{4}{307}\sqrt{2114}e^{14},$ $\frac{2}{307}\sqrt{5889}e^{25}$	$(\frac{147}{307}, -\frac{30}{307}, \frac{9}{307}, -\frac{155}{307}, \frac{117}{307}, \frac{156}{307}, -\frac{21}{307}, -\frac{8}{307}, \frac{87}{307})$ $+\frac{2}{307}\sqrt{39109}e^1 \otimes e_4$	{12379, 1269, 1359, 15679, 234567, 245, 346, 47}
951:6	$0, 0, 0, 0, \frac{10}{1009}\sqrt{1165}e^{12}, \frac{15}{1009}\sqrt{510}e^{13}, \frac{60}{1009}\sqrt{30}e^{23},$ $\frac{75}{1009}\sqrt{30}e^{14}, \frac{20}{1009}\sqrt{55}e^{25}$	$(-\frac{250}{1009}, \frac{145}{1009}, \frac{155}{1009}, \frac{155}{1009}, -\frac{105}{1009}, -\frac{95}{1009}, \frac{300}{1009}, -\frac{95}{1009}, \frac{40}{1009})$ $+\frac{5}{1009}\sqrt{10330}e^3 \otimes e_8 + \frac{5}{1009}\sqrt{8170}e^4 \otimes e_6$	{123459, 1256789, 13479, 1689, 236, 2478, 3567, 458}
951:6	$0, 0, 0, 0, \frac{4}{989}\sqrt{2982}e^{12}, \frac{1}{989}\sqrt{22010}e^{13}, \frac{2}{989}\sqrt{18673}e^{23},$ $\frac{1}{989}\sqrt{85058}e^{14}, \frac{1}{989}\sqrt{31098}e^{25}$	$(\frac{108}{989}, \frac{51}{989}, -\frac{85}{989}, -\frac{199}{989}, \frac{159}{989}, \frac{1}{43}, -\frac{34}{989}, -\frac{91}{989}, \frac{210}{989})$ $+\frac{1}{989}\sqrt{112890}e^1 \otimes e_7 + \frac{2}{989}\sqrt{34861}e^2 \otimes e_8$	{123469, 1589, 2567, 3478}
951:6	$0, 0, 0, 0, \frac{90}{4001}\sqrt{55}e^{12}, \frac{48}{4001}\sqrt{330}e^{13}, \frac{6}{4001}\sqrt{16599}e^{23},$ $\frac{18}{4001}\sqrt{5214}e^{14}, \frac{66}{4001}\sqrt{318}e^{25}$	$(-\frac{777}{4001}, \frac{366}{4001}, \frac{517}{4001}, \frac{549}{4001}, -\frac{411}{4001}, -\frac{260}{4001}, \frac{883}{4001}, -\frac{228}{4001}, -\frac{45}{4001})$ $+\frac{6}{4001}\sqrt{52503}e^4 \otimes e_9 + \frac{6}{4001}\sqrt{66990}e^2 \otimes e_8$	{1356789, 1589, 3478, 468}
951:6	$0, 0, 0, 0, \frac{16}{1289}\sqrt{1155}e^{12}, \frac{14}{1289}\sqrt{4785}e^{13}, \frac{2}{1289}\sqrt{125895}e^{23},$ $\frac{1}{1289}\sqrt{43890}e^{14}, \frac{21}{1289}\sqrt{1870}e^{25}$	$(-\frac{38}{1289}, -\frac{226}{1289}, \frac{665}{1289}, \frac{240}{1289}, -\frac{264}{1289}, \frac{627}{1289}, \frac{439}{1289}, \frac{202}{1289}, -\frac{490}{1289})$ $+\frac{6}{1289}\sqrt{68530}e^3 \otimes e_9$	{123458, 1235, 13478, 137, 2479, 2789, 459, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:6	$0, 0, 0, 0, \frac{4}{329}\sqrt{1455e^{12}}, \frac{4}{329}\sqrt{1455e^{13}}, \frac{2}{329}\sqrt{12513e^{23}}, \frac{1}{329}\sqrt{48306e^{14}},$ $\frac{3}{329}\sqrt{582e^{25}}$	$(\frac{166}{329}, -\frac{58}{329}, -\frac{67}{329}, -\frac{24}{329}, \frac{108}{329}, \frac{99}{329}, -\frac{125}{329}, \frac{142}{329}, \frac{50}{329})$ $+\frac{18}{329}\sqrt{485e^1} \otimes e_7$	{1234, 1238, 1456, 1568, 245789, 2579, 346789, 3679}
951:6	$0, 0, 0, 0, \frac{4}{119}\sqrt{87e^{12}}, \frac{4}{119}\sqrt{87e^{13}}, \frac{6}{119}\sqrt{29e^{23}}, \frac{1}{119}\sqrt{290e^{14}},$ $\frac{1}{119}\sqrt{986e^{25}}$	$(\frac{10}{119}, \frac{10}{119}, -\frac{29}{119}, \frac{8}{119}, \frac{20}{119}, -\frac{19}{119}, -\frac{19}{119}, \frac{18}{119}, \frac{30}{119})$ $+\frac{10}{119}\sqrt{29e^1} \otimes e_7 - \frac{4}{119}\sqrt{203e^2} \otimes e_6$	{12349, 12389, 14569, 15689, 24578, 257, 34678, 367}
951:6	$0, 0, 0, 0, \frac{4}{119}\sqrt{87e^{12}}, \frac{4}{119}\sqrt{87e^{13}}, \frac{6}{119}\sqrt{29e^{23}}, \frac{1}{119}\sqrt{290e^{14}},$ $\frac{1}{119}\sqrt{986e^{25}}$	$(\frac{10}{119}, \frac{10}{119}, -\frac{29}{119}, \frac{8}{119}, \frac{20}{119}, -\frac{19}{119}, -\frac{19}{119}, \frac{18}{119}, \frac{30}{119})$ $+\frac{10}{119}\sqrt{29e^1} \otimes e_7 + \frac{4}{119}\sqrt{203e^2} \otimes e_6$	{12349, 12389, 14569, 15689, 24578, 257, 34678, 367}
951:6	$0, 0, 0, 0, \frac{4}{125}\sqrt{130e^{12}}, \frac{4}{125}\sqrt{130e^{13}}, \frac{4}{125}\sqrt{39e^{23}}, \frac{2}{125}\sqrt{299e^{14}},$ $\frac{4}{125}\sqrt{91e^{25}}$	$(\frac{7}{125}, \frac{16}{125}, -\frac{17}{125}, -\frac{19}{125}, \frac{23}{125}, -\frac{2}{25}, -\frac{1}{125}, -\frac{12}{125}, \frac{39}{125})$ $+\frac{2}{125}\sqrt{689e^1} \otimes e_4 + \frac{2}{125}\sqrt{793e^2} \otimes e_6$	{12379, 15679, 245, 346}
951:6	$0, 0, 0, 0, \frac{8}{1249}\sqrt{9710e^{12}}, \frac{2}{1249}\sqrt{101955e^{13}}, \frac{18}{1249}\sqrt{2913e^{23}},$ $\frac{1}{1249}\sqrt{879726e^{14}}, \frac{3}{1249}\sqrt{21362e^{25}}$	$(-\frac{154}{1249}, \frac{122}{1249}, \frac{553}{1249}, -\frac{264}{1249}, -\frac{32}{1249}, \frac{399}{1249}, \frac{675}{1249}, -\frac{418}{1249}, \frac{90}{1249})$ $+\frac{2}{1249}\sqrt{514630e^3} \otimes e_8$	{123459, 1256789, 13479, 1689, 236, 2478, 3567, 458}
951:6	$0, 0, 0, 0, \frac{1}{23}\sqrt{170e^{12}}, \frac{1}{23}\sqrt{170e^{13}}, \frac{2}{23}\sqrt{102e^{23}}, \frac{1}{23}\sqrt{374e^{14}},$ $\frac{1}{23}\sqrt{102e^{25}}$	$(\frac{2}{23}, -\frac{1}{23}, -\frac{4}{23}, \frac{12}{23}, \frac{23}{23}, -\frac{2}{23}, -\frac{5}{23}, \frac{14}{23}, 0)$ $+\frac{2}{23}\sqrt{170e^4} \otimes e_7$	{1234569, 125789, 136789, 149, 2348, 267, 357, 4568}
951:6	$0, 0, 0, 0, \frac{10}{1009}\sqrt{1165e^{12}}, \frac{15}{1009}\sqrt{510e^{13}}, \frac{60}{1009}\sqrt{30e^{23}},$ $\frac{75}{1009}\sqrt{30e^{14}}, \frac{20}{1009}\sqrt{55e^{25}}$	$(-\frac{250}{1009}, \frac{145}{1009}, \frac{155}{1009}, \frac{155}{1009}, -\frac{105}{1009}, -\frac{95}{1009}, \frac{300}{1009}, -\frac{95}{1009}, \frac{40}{1009})$ $+\frac{5}{1009}\sqrt{10330e^3} \otimes e_8 - \frac{5}{1009}\sqrt{8170e^4} \otimes e_6$	{123459, 1256789, 13479, 1689, 236, 2478, 3567, 458}
951:6	$0, 0, 0, 0, \frac{2}{751}\sqrt{193e^{12}}, \frac{6}{751}\sqrt{4053e^{13}}, \frac{2}{751}\sqrt{17949e^{23}}, \frac{4}{751}\sqrt{4439e^{14}},$ $\frac{2}{751}\sqrt{579e^{25}}$	$(\frac{91}{751}, -\frac{5}{751}, \frac{182}{751}, -\frac{295}{751}, \frac{86}{751}, \frac{273}{751}, \frac{177}{751}, -\frac{204}{751}, \frac{81}{751})$ $+\frac{2}{751}\sqrt{55391e^1} \otimes e_4 + \frac{4}{751}\sqrt{18335e^3} \otimes e_8$	{1256789, 1689, 2478, 458}
951:6	$0, 0, 0, 0, \frac{4}{1355}\sqrt{15593e^{12}}, \frac{1}{271}\sqrt{1006e^{13}}, \frac{13}{1355}\sqrt{3018e^{23}},$ $\frac{4}{1355}\sqrt{21629e^{14}}, \frac{1}{1355}\sqrt{57342e^{25}}$	$(\frac{11}{1355}, -\frac{184}{1355}, \frac{146}{1355}, \frac{93}{271}, -\frac{173}{1355}, \frac{157}{1355}, -\frac{38}{1355}, \frac{476}{1355}, -\frac{357}{1355})$ $+\frac{1}{1355}\sqrt{681062e^4} \otimes e_7 + \frac{2}{1355}\sqrt{137319e^3} \otimes e_9$	{12345, 1378, 279, 4589}
951:6	$0, 0, 0, 0, \frac{4}{3241}\sqrt{80765e^{12}}, \frac{2}{3241}\sqrt{119755e^{13}}, \frac{2}{3241}\sqrt{361493e^{23}},$ $\frac{2}{3241}\sqrt{669514e^{14}}, \frac{2}{3241}\sqrt{186038e^{25}}$	$(-\frac{73}{463}, -\frac{11}{463}, \frac{1052}{3241}, \frac{449}{3241}, -\frac{84}{463}, \frac{541}{3241}, \frac{975}{3241}, -\frac{62}{3241}, -\frac{95}{463})$ $+\frac{10}{3241}\sqrt{29521e^4} \otimes e_9 + \frac{2}{3241}\sqrt{885630e^3} \otimes e_8$	{12345, 1347, 2369, 35679}
951:6	$0, 0, 0, 0, \frac{21}{1765}\sqrt{10e^{12}}, \frac{7}{1765}\sqrt{2586e^{13}}, \frac{42}{1765}\sqrt{118e^{23}},$ $\frac{7}{1765}\sqrt{4422e^{14}}, \frac{21}{1765}\sqrt{58e^{25}}$	$(-\frac{154}{1765}, \frac{189}{1765}, -\frac{28}{353}, \frac{196}{1765}, \frac{7}{353}, -\frac{294}{1765}, \frac{49}{1765}, \frac{42}{1765}, \frac{224}{1765})$ $+\frac{14}{1765}\sqrt{1194e^4} \otimes e_7 + \frac{56}{1765}\sqrt{78e^2} \otimes e_8$	{123456, 13678, 2679, 45689}
951:6	$0, 0, 0, 0, \frac{3}{61}\sqrt{6e^{12}}, \frac{3}{61}\sqrt{6e^{13}}, \frac{18}{61}\sqrt{3e^{23}}, \frac{3}{61}\sqrt{66e^{14}},$ $\frac{3}{61}\sqrt{30e^{25}}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{18}{61}, \frac{12}{61})$ $+\frac{6}{61}\sqrt{39e^2} \otimes e_6 + \frac{6}{61}\sqrt{42e^4} \otimes e_7$	{12349, 14569, 257, 367}
951:6	$0, 0, 0, 0, \frac{2}{3145}\sqrt{94829e^{12}}, \frac{2}{3145}\sqrt{12673e^{13}}, \frac{2}{3145}\sqrt{303278e^{23}},$ $\frac{4}{3145}\sqrt{61617e^{14}}, \frac{38}{3145}\sqrt{989e^{25}}$	$(-\frac{91}{629}, \frac{42}{629}, \frac{839}{3145}, -\frac{209}{3145}, -\frac{49}{629}, \frac{384}{3145}, \frac{1049}{3145}, -\frac{664}{3145}, -\frac{7}{629})$ $+\frac{2}{3145}\sqrt{527459e^3} \otimes e_9 + \frac{2}{3145}\sqrt{691771e^2} \otimes e_8$	{124679, 15689, 2356, 34678}
951:7	$0, 0, 0, 0, \frac{3}{572}\sqrt{1653e^{12}}, \frac{3}{572}\sqrt{20805e^{13}}, \frac{3}{572}\sqrt{3021e^{34}},$ $\frac{3}{572}\sqrt{20805e^{14}} + \frac{3}{572}\sqrt{1406e^{23}}, \frac{57}{572}\sqrt{30e^{15}}$	$(-\frac{3}{13}, \frac{249}{572}, -\frac{15}{88}, \frac{567}{1144}, \frac{9}{44}, -\frac{459}{1144}, \frac{93}{286}, \frac{303}{1144}, -\frac{15}{572})$ $+\frac{9}{286}\sqrt{1558e^4} \otimes e_6$	{134, 168, 3567, 4578}
951:7	$0, 0, 0, 0, \frac{3}{7609}\sqrt{3938e^{12}}, \frac{3}{7609}\sqrt{1646e^{13}}, \frac{3}{7609}\sqrt{6058e^{34}},$ $\frac{3}{7609}\sqrt{1534e^{14}} + \frac{18}{7609}\sqrt{79e^{23}}, \frac{7609}{7609}\sqrt{5110e^{15}}$	$(-\frac{39}{7609}, \frac{129}{7609}, -\frac{108}{7609}, \frac{60}{7609}, \frac{90}{7609}, -\frac{21}{1087}, -\frac{48}{7609}, \frac{3}{1087}, \frac{51}{7609})$ $+\frac{6}{7609}\sqrt{1590e^4} \otimes e_9 + \frac{9}{7609}\sqrt{834e^1} \otimes e_7$	{13456, 4678}
951:7	$0, 0, 0, 0, \frac{15}{1597}\sqrt{542e^{12}}, \frac{60}{1597}\sqrt{34e^{13}}, \frac{15}{1597}\sqrt{958e^{34}},$ $\frac{60}{1597}\sqrt{34e^{14}} + \frac{240}{1597}\sqrt{3e^{23}}, \frac{15}{1597}\sqrt{286e^{15}}$	$(\frac{15}{1597}, \frac{255}{1597}, -\frac{225}{1597}, \frac{15}{1597}, \frac{270}{1597}, -\frac{210}{1597}, -\frac{210}{1597}, \frac{30}{1597}, \frac{285}{1597})$ $+\frac{15}{1597}\sqrt{1662e^1} \otimes e_7 - \frac{60}{1597}\sqrt{78e^4} \otimes e_6$	{1345, 1568, 367, 478}
951:7	$0, 0, 0, 0, \frac{2}{7}\sqrt{3e^{12}}, \frac{1}{7}\sqrt{5e^{13}}, \frac{4}{7}e^{34}, \frac{1}{7}\sqrt{5e^{14}} + \frac{2}{7}e^{23},$ $\frac{1}{7}\sqrt{5e^{15}}$	$(-\frac{1}{21}, \frac{1}{3}, -\frac{5}{21}, \frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{21}, \frac{2}{21}, \frac{5}{21})$ $+\frac{2}{7}\sqrt{3e^4} \otimes e_6 + \frac{5}{7}e^2 \otimes e_7$	{23459, 25689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:7	$0, 0, 0, 0, \frac{6}{2453}\sqrt{29870}e^{12}, \frac{6}{2453}\sqrt{67259}e^{13}, \frac{24}{2453}\sqrt{6283}e^{34},$ $\frac{12}{2453}\sqrt{9682}e^{14} + \frac{18}{2453}\sqrt{2266}e^{23}, \frac{6}{2453}\sqrt{93730}e^{15}$	$(- \frac{48}{223}, \frac{303}{2453}, \frac{270}{2453}, \frac{1101}{2453}, - \frac{225}{2453}, - \frac{258}{2453}, \frac{1371}{2453}, \frac{573}{2453}, - \frac{753}{2453})$ $+ \frac{42}{2453}\sqrt{4326}e^4 \otimes e_9$	{1236789, 13456, 2569, 4678}
951:7	$0, 0, 0, 0, \frac{24}{2477}\sqrt{395}e^{12}, \frac{6}{2477}\sqrt{17854}e^{13}, \frac{6}{2477}\sqrt{61462}e^{34},$ $\frac{6}{2477}\sqrt{64859}e^{14} + \frac{18}{2477}\sqrt{6478}e^{23}, \frac{192}{2477}\sqrt{79}e^{15}$	$(- \frac{126}{2477}, - \frac{435}{2477}, \frac{735}{2477}, \frac{426}{2477}, - \frac{561}{2477}, \frac{609}{2477}, \frac{1161}{2477}, \frac{300}{2477}, - \frac{687}{2477})$ $+ \frac{6}{2477}\sqrt{165426}e^3 \otimes e_9$	{1246789, 13458, 2589, 3678}
951:7	$0, 0, 0, 0, \frac{90}{3581}\sqrt{286}e^{12}, \frac{45}{3581}\sqrt{418}e^{13}, \frac{90}{3581}\sqrt{374}e^{34},$ $\frac{45}{3581}\sqrt{110}e^{14} + \frac{270}{3581}\sqrt{11}e^{23}, \frac{90}{3581}\sqrt{407}e^{15}$	$(- \frac{765}{3581}, \frac{990}{3581}, \frac{270}{3581}, \frac{1485}{3581}, \frac{225}{3581}, - \frac{1035}{3581}, \frac{1215}{3581}, \frac{720}{3581}, - \frac{540}{3581})$ $+ \frac{45}{3581}\sqrt{2586}e^2 \otimes e_6 + \frac{45}{3581}\sqrt{3642}e^4 \otimes e_9$	{1289, 23579}
951:7	$0, 0, 0, 0, \frac{9}{211}\sqrt{222}e^{12}, \frac{4}{211}\sqrt{111}e^{13}, \frac{9}{211}\sqrt{222}e^{34},$ $\frac{4}{211}\sqrt{111}e^{14} + \frac{12}{211}\sqrt{74}e^{23}, \frac{1}{211}\sqrt{14430}e^{15}$	$(\frac{49}{211}, \frac{1}{211}, - \frac{7}{211}, - \frac{55}{211}, \frac{50}{211}, \frac{42}{211}, - \frac{62}{211}, - \frac{6}{211}, \frac{99}{211})$ $+ \frac{3}{211}\sqrt{4366}e^1 \otimes e_7$	{1345, 1568, 367, 478}
951:7	$0, 0, 0, 0, \frac{6}{2405}\sqrt{70358}e^{12}, \frac{12}{2405}\sqrt{18034}e^{13}, \frac{12}{2405}\sqrt{3683}e^{34},$ $\frac{6}{2405}\sqrt{55499}e^{14} + \frac{36}{2405}\sqrt{2159}e^{23}, \frac{12}{2405}\sqrt{2794}e^{15}$	$(- \frac{378}{2405}, \frac{1239}{2405}, - \frac{669}{2405}, \frac{948}{2405}, \frac{861}{2405}, - \frac{1047}{2405}, \frac{279}{2405}, \frac{114}{2405}, \frac{483}{2405})$ $+ \frac{6}{2405}\sqrt{255270}e^2 \otimes e_6$	{1239, 1567, 25789, 368}
951:7	$0, 0, 0, 0, \frac{15}{1597}\sqrt{542}e^{12}, \frac{60}{1597}\sqrt{34}e^{13}, \frac{15}{1597}\sqrt{958}e^{34},$ $\frac{60}{1597}\sqrt{34}e^{14} + \frac{240}{1597}\sqrt{3}e^{23}, \frac{15}{1597}\sqrt{286}e^{15}$	$(\frac{15}{1597}, \frac{255}{1597}, - \frac{225}{1597}, \frac{15}{1597}, \frac{270}{1597}, - \frac{210}{1597}, - \frac{210}{1597}, \frac{30}{1597}, \frac{285}{1597})$ $+ \frac{15}{1597}\sqrt{1662}e^1 \otimes e_7 + \frac{60}{1597}\sqrt{78}e^4 \otimes e_6$	{1345, 1568, 367, 478}
951:7	$0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{26}{1487}\sqrt{429}e^{13}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{39}{1487}\sqrt{74}e^{14} + \frac{26}{1487}\sqrt{222}e^{23}, \frac{13}{1487}\sqrt{1554}e^{15}$	$(- \frac{221}{1487}, \frac{65}{1487}, \frac{130}{1487}, \frac{416}{1487}, - \frac{156}{1487}, - \frac{91}{1487}, \frac{546}{1487}, \frac{195}{1487}, - \frac{377}{1487})$ $+ \frac{13}{1487}\sqrt{3210}e^4 \otimes e_6 + \frac{26}{1487}\sqrt{1191}e^3 \otimes e_9$	{169, 4579}
951:7	$0, 0, 0, 0, \frac{4}{539}\sqrt{51}e^{12}, \frac{1}{539}\sqrt{411}e^{13}, \frac{36}{539}e^{34},$ $\frac{1}{539}\sqrt{1131}e^{14} + \frac{2}{539}\sqrt{222}e^{23}, \frac{3}{49}e^{15}$	$(- \frac{13}{539}, \frac{15}{539}, - \frac{8}{539}, \frac{20}{539}, \frac{2}{539}, - \frac{3}{77}, \frac{12}{539}, \frac{1}{77}, - \frac{1}{49})$ $+ \frac{12}{539}\sqrt{10}e^3 \otimes e_9 + \frac{1}{539}\sqrt{1509}e^2 \otimes e_7$	{25689, 378}
951:7	$0, 0, 0, 0, \frac{12}{17}e^{12}, \frac{3}{17}\sqrt{11}e^{13}, \frac{12}{17}e^{34}, \frac{3}{17}\sqrt{11}e^{14} + \frac{6}{17}\sqrt{2}e^{23},$ $\frac{9}{17}e^{15}$	$(\frac{1}{17}, \frac{5}{17}, - \frac{4}{17}, 0, \frac{6}{17}, \frac{3}{17}, - \frac{4}{17}, \frac{1}{17}, \frac{7}{17})$ $+ \frac{3}{17}\sqrt{29}e^2 \otimes e_7$	{23459, 25689, 378, 467}
951:7	$0, 0, 0, 0, \frac{20}{483}\sqrt{57}e^{12}, \frac{5}{483}\sqrt{915}e^{13}, \frac{60}{161}e^{34},$ $\frac{5}{483}\sqrt{339}e^{14} + \frac{10}{483}\sqrt{66}e^{23}, \frac{5}{483}\sqrt{897}e^{15}$	$(- \frac{15}{161}, \frac{95}{483}, - \frac{20}{161}, \frac{80}{483}, \frac{50}{483}, - \frac{5}{23}, \frac{20}{483}, \frac{5}{69}, \frac{5}{483})$ $+ \frac{40}{161}\sqrt{2}e^4 \otimes e_9 + \frac{5}{483}\sqrt{1461}e^2 \otimes e_7$	{25689, 467}
951:7	$0, 0, 0, 0, \frac{15}{847}\sqrt{2}e^{12}, \frac{3}{847}\sqrt{826}e^{13}, \frac{3}{847}\sqrt{4186}e^{34},$ $\frac{3}{847}\sqrt{1778}e^{14} + \frac{18}{847}\sqrt{7}e^{23}, \frac{3}{847}\sqrt{4270}e^{15}$	$(\frac{9}{121}, - \frac{15}{121}, \frac{12}{121}, - \frac{12}{121}, - \frac{6}{121}, \frac{21}{121}, 0, - \frac{3}{121}, \frac{3}{121})$ $+ \frac{6}{847}\sqrt{1302}e^3 \otimes e_9 + \frac{9}{847}\sqrt{602}e^1 \otimes e_7$	{13458, 3678}
951:7	$0, 0, 0, 0, \frac{39}{5389}\sqrt{3518}e^{12}, \frac{156}{5389}\sqrt{82}e^{13}, \frac{39}{5389}\sqrt{2302}e^{34},$ $\frac{624}{5389}\sqrt{2}e^{14} + \frac{936}{5389}e^{23}, \frac{39}{5389}\sqrt{2110}e^{15}$	$(\frac{351}{5389}, \frac{975}{5389}, - \frac{897}{5389}, - \frac{273}{5389}, \frac{78}{317}, - \frac{546}{5389}, - \frac{1170}{5389}, \frac{78}{5389}, \frac{1677}{5389})$ $+ \frac{117}{5389}\sqrt{654}e^1 \otimes e_7 + \frac{312}{5389}\sqrt{57}e^2 \otimes e_6$	{123489, 24579}
951:7	$0, 0, 0, 0, \frac{4}{121}\sqrt{37}e^{12}, \frac{8}{121}\sqrt{15}e^{13}, \frac{4}{121}\sqrt{55}e^{34},$ $\frac{8}{121}\sqrt{26}e^{14} + \frac{4}{121}\sqrt{105}e^{23}, \frac{12}{121}\sqrt{10}e^{15}$	$(- \frac{16}{121}, \frac{10}{121}, \frac{2}{121}, \frac{28}{121}, - \frac{6}{121}, - \frac{14}{121}, \frac{30}{121}, \frac{12}{121}, - \frac{2}{11})$ $+ \frac{4}{121}\sqrt{137}e^2 \otimes e_6 + \frac{4}{121}\sqrt{191}e^3 \otimes e_9$	{2589, 3678}
951:8	$0, 0, 0, 0, \frac{5}{63}\sqrt{2}e^{12}, \frac{1}{63}\sqrt{5}e^{13}, \frac{1}{21}\sqrt{10}e^{34},$ $\frac{1}{63}\sqrt{65}e^{14} + \frac{2}{63}\sqrt{22}e^{23}, \frac{1}{63}\sqrt{77}e^{25}$	$(\frac{1}{21}, - \frac{4}{63}, \frac{4}{63}, - \frac{1}{21}, - \frac{1}{63}, \frac{1}{9}, \frac{1}{63}, 0, - \frac{5}{63})$ $+ \frac{1}{63}\sqrt{109}e^1 \otimes e_7 + \frac{2}{63}\sqrt{30}e^4 \otimes e_9$	{15689, 478}
951:8	$0, 0, 0, 0, \frac{2}{259}\sqrt{570}e^{12}, \frac{2}{259}\sqrt{6555}e^{13}, \frac{2}{259}\sqrt{6270}e^{34},$ $\frac{2}{259}\sqrt{3705}e^{14} + \frac{2}{259}\sqrt{2945}e^{23}, \frac{76}{259}\sqrt{5}e^{25}$	$(\frac{19}{259}, - \frac{58}{259}, \frac{93}{259}, \frac{16}{259}, - \frac{39}{259}, \frac{16}{37}, \frac{109}{259}, \frac{5}{37}, - \frac{97}{259})$ $+ \frac{12}{259}\sqrt{570}e^3 \otimes e_9$	{12357, 1348, 289, 4579}
951:8	$0, 0, 0, 0, \frac{4}{701}\sqrt{2233}e^{12}, \frac{12}{701}\sqrt{1595}e^{13}, \frac{2}{701}\sqrt{52954}e^{34},$ $\frac{12}{701}\sqrt{1595}e^{14} + \frac{2}{701}\sqrt{50083}e^{23}, \frac{4}{701}\sqrt{7337}e^{25}$	$(- \frac{213}{701}, \frac{212}{701}, - \frac{70}{701}, \frac{355}{701}, - \frac{1}{701}, - \frac{283}{701}, \frac{285}{701}, \frac{142}{701}, \frac{211}{701})$ $+ \frac{2}{701}\sqrt{185658}e^4 \otimes e_6$	{134, 168, 35679, 45789}
951:8	$0, 0, 0, 0, \frac{1}{42}\sqrt{130}e^{12}, \frac{1}{42}\sqrt{185}e^{13}, \frac{5}{42}\sqrt{10}e^{34},$ $\frac{1}{42}\sqrt{5}e^{14} + \frac{5}{21}e^{23}, \frac{1}{42}\sqrt{185}e^{25}$	$(\frac{4}{21}, - \frac{1}{7}, \frac{1}{7}, - \frac{4}{21}, \frac{1}{21}, \frac{1}{3}, - \frac{1}{21}, 0, - \frac{2}{21})$ $+ \frac{1}{42}\sqrt{385}e^1 \otimes e_7 + \frac{1}{7}\sqrt{10}e^3 \otimes e_9$	{15689, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:8	$0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{1}{3}\sqrt{2}e^{13}, \frac{2}{3}e^{34}, \frac{1}{3}\sqrt{2}e^{14} + \frac{2}{3}e^{23},$ $\frac{1}{3}\sqrt{2}e^{25}$	$(\frac{1}{3}, 0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{10}e^1 \otimes e_7$	{13459, 15689, 367, 478}
951:8	$0, 0, 0, 0, \frac{23}{1905}\sqrt{202}e^{12}, \frac{46}{1905}\sqrt{259}e^{13}, \frac{23}{1905}\sqrt{935}e^{34},$ $\frac{23}{635}\sqrt{13}e^{14} + \frac{46}{1905}\sqrt{37}e^{23}, \frac{23}{1905}\sqrt{795}e^{25}$	$(-\frac{92}{635}, -\frac{23}{1905}, \frac{69}{635}, \frac{92}{381}, -\frac{299}{1905}, -\frac{23}{635}, \frac{667}{1905}, \frac{184}{1905}, -\frac{322}{1905})$ $+ \frac{23}{1905}\sqrt{1838}e^3 \otimes e_9 + \frac{253}{1905}\sqrt{13}e^4 \otimes e_6$	{134, 45789}
951:8	$0, 0, 0, 0, \frac{6}{377}\sqrt{377}e^{12}, \frac{6}{377}\sqrt{143}e^{13}, \frac{36}{377}\sqrt{13}e^{34},$ $\frac{3}{377}\sqrt{1118}e^{14} + \frac{21}{377}\sqrt{26}e^{23}, \frac{6}{377}\sqrt{923}e^{25}$	$(-\frac{6}{29}, \frac{3}{29}, 0, \frac{9}{29}, -\frac{3}{29}, -\frac{6}{29}, \frac{9}{29}, \frac{3}{29}, 0)$ $+ \frac{3}{377}\sqrt{3770}e^2 \otimes e_6 + \frac{3}{377}\sqrt{4862}e^4 \otimes e_9$	{123789, 15689}
951:8	$0, 0, 0, 0, \frac{4}{2813}\sqrt{46342}e^{12}, \frac{94}{2813}\sqrt{102}e^{13}, \frac{4}{2813}\sqrt{205343}e^{34},$ $\frac{8}{2813}\sqrt{45543}e^{14} + \frac{34}{2813}\sqrt{2491}e^{23}, \frac{2}{2813}\sqrt{989162}e^{25}$	$(-\frac{437}{2813}, -\frac{144}{2813}, \frac{20}{97}, \frac{9}{29}, -\frac{581}{2813}, \frac{143}{2813}, \frac{1453}{2813}, \frac{436}{2813}, -\frac{25}{97})$ $+ \frac{4}{2813}\sqrt{477003}e^4 \otimes e_9$	{1236789, 1589, 23458, 4678}
951:8	$0, 0, 0, 0, \frac{13}{7609}\sqrt{3642}e^{12}, \frac{13}{7609}\sqrt{114}e^{13}, \frac{39}{7609}\sqrt{626}e^{34},$ $\frac{13}{7609}\sqrt{3102}e^{14} + \frac{26}{7609}\sqrt{383}e^{23}, \frac{13}{7609}\sqrt{4562}e^{25}$	$(\frac{481}{7609}, -\frac{247}{7609}, \frac{156}{7609}, -\frac{572}{7609}, \frac{234}{7609}, \frac{91}{1087}, -\frac{416}{7609}, -\frac{13}{1087}, -\frac{13}{7609})$ $+ \frac{13}{7609}\sqrt{7854}e^2 \otimes e_7 + \frac{78}{7609}\sqrt{166}e^3 \otimes e_9$	{2345, 378}
951:8	$0, 0, 0, 0, \frac{1}{18}\sqrt{11}e^{12}, \frac{1}{36}\sqrt{62}e^{13}, \frac{1}{18}\sqrt{21}e^{34},$ $\frac{1}{36}\sqrt{62}e^{14} + \frac{1}{18}\sqrt{22}e^{23}, \frac{1}{36}\sqrt{38}e^{25}$	$(0, \frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{2}{9})$ $- \frac{1}{18}\sqrt{30}e^4 \otimes e_6 + \frac{1}{36}\sqrt{142}e^1 \otimes e_7$	{13459, 15689, 367, 478}
951:8	$0, 0, 0, 0, \frac{10}{97}\sqrt{2}e^{12}, \frac{6}{97}\sqrt{15}e^{13}, \frac{10}{97}\sqrt{2}e^{34},$ $\frac{2}{97}\sqrt{85}e^{14} + \frac{2}{97}\sqrt{65}e^{23}, \frac{4}{97}\sqrt{35}e^{25}$	$(-\frac{11}{97}, \frac{2}{97}, \frac{3}{97}, \frac{16}{97}, -\frac{9}{97}, -\frac{8}{97}, \frac{19}{97}, \frac{5}{97}, -\frac{7}{97})$ $+ \frac{4}{97}\sqrt{55}e^2 \otimes e_6 + \frac{4}{97}\sqrt{55}e^3 \otimes e_9$	{1569, 3678}
951:8	$0, 0, 0, 0, \frac{11}{6601}\sqrt{3658}e^{12}, \frac{11}{6601}\sqrt{2298}e^{13}, \frac{11}{6601}\sqrt{5522}e^{34},$ $\frac{11}{6601}\sqrt{498}e^{14} + \frac{22}{6601}\sqrt{391}e^{23}, \frac{11}{6601}\sqrt{4922}e^{25}$	$(-\frac{319}{6601}, \frac{297}{6601}, -\frac{220}{6601}, \frac{396}{6601}, -\frac{22}{6601}, -\frac{77}{943}, \frac{176}{6601}, \frac{11}{943}, \frac{275}{6601})$ $+ \frac{22}{6601}\sqrt{1398}e^4 \otimes e_9 + \frac{33}{6601}\sqrt{710}e^2 \otimes e_7$	{23458, 4678}
951:8	$0, 0, 0, 0, \frac{133}{1189}\sqrt{14}e^{12}, \frac{228}{1189}e^{13}, \frac{19}{1189}\sqrt{910}e^{34},$ $\frac{228}{1189}e^{14} + \frac{152}{1189}e^{23}, \frac{19}{1189}\sqrt{590}e^{25}$	$(-\frac{57}{1189}, \frac{247}{1189}, -\frac{209}{1189}, \frac{95}{1189}, \frac{190}{1189}, -\frac{266}{1189}, \frac{114}{1189}, \frac{38}{1189}, \frac{437}{1189})$ $+ \frac{57}{1189}\sqrt{158}e^2 \otimes e_7 + \frac{76}{1189}\sqrt{42}e^4 \otimes e_6$	{135679, 145789}
951:8	$0, 0, 0, 0, \frac{1}{18}\sqrt{11}e^{12}, \frac{1}{36}\sqrt{62}e^{13}, \frac{1}{18}\sqrt{21}e^{34},$ $\frac{1}{36}\sqrt{62}e^{14} + \frac{1}{18}\sqrt{22}e^{23}, \frac{1}{36}\sqrt{38}e^{25}$	$(0, \frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{2}{9})$ $+ \frac{1}{18}\sqrt{30}e^4 \otimes e_6 + \frac{1}{36}\sqrt{142}e^1 \otimes e_7$	{13459, 15689, 367, 478}
951:8	$0, 0, 0, 0, \frac{5}{42}\sqrt{10}e^{12}, \frac{1}{42}\sqrt{185}e^{13}, \frac{1}{42}\sqrt{130}e^{34},$ $\frac{1}{42}\sqrt{5}e^{14} + \frac{5}{21}e^{23}, \frac{1}{42}\sqrt{185}e^{25}$	$(\frac{1}{21}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{21}, \frac{4}{21}, -\frac{2}{21}, -\frac{4}{21}, 0, \frac{1}{3})$ $+ \frac{1}{42}\sqrt{385}e^1 \otimes e_7 + \frac{1}{7}\sqrt{10}e^2 \otimes e_6$	{15689, 367}
951:8	$0, 0, 0, 0, \frac{1}{235}\sqrt{21630}e^{12}, \frac{4}{235}\sqrt{618}e^{13}, \frac{1}{235}\sqrt{21630}e^{34},$ $\frac{4}{235}\sqrt{618}e^{14} + \frac{4}{235}\sqrt{206}e^{23}, \frac{1}{235}\sqrt{15038}e^{25}$	$(\frac{5}{47}, \frac{41}{235}, -\frac{39}{235}, -\frac{23}{235}, \frac{66}{235}, -\frac{14}{235}, -\frac{62}{235}, \frac{2}{235}, \frac{107}{235})$ $+ \frac{1}{235}\sqrt{41406}e^2 \otimes e_7$	{2345, 2568, 378, 467}
951:8	$0, 0, 0, 0, \frac{2}{259}\sqrt{6270}e^{12}, \frac{2}{259}\sqrt{6555}e^{13}, \frac{2}{259}\sqrt{570}e^{34},$ $\frac{2}{259}\sqrt{3705}e^{14} + \frac{2}{259}\sqrt{2945}e^{23}, \frac{76}{259}\sqrt{5}e^{25}$	$(-\frac{53}{259}, \frac{86}{259}, -\frac{51}{259}, \frac{88}{259}, \frac{33}{259}, -\frac{104}{259}, \frac{1}{7}, \frac{5}{37}, \frac{17}{37})$ $+ \frac{12}{259}\sqrt{570}e^2 \otimes e_6$	{1239, 15679, 2578, 368}
951:9	$0, 0, 0, 0, \frac{13}{1793}\sqrt{802}e^{12}, \frac{39}{1793}\sqrt{113}e^{13}, \frac{26}{1793}\sqrt{97}e^{23},$ $\frac{13}{1793}\sqrt{1211}e^{14}, \frac{13}{1793}\sqrt{878}e^{15} + \frac{26}{1793}\sqrt{154}e^{34}$	$(-\frac{169}{1793}, \frac{312}{1793}, -\frac{13}{1793}, -\frac{13}{1793}, \frac{13}{163}, -\frac{182}{1793}, \frac{299}{1793}, -\frac{182}{1793}, -\frac{26}{1793})$ $+ \frac{13}{1793}\sqrt{1591}e^4 \otimes e_6 + \frac{13}{1793}\sqrt{1785}e^3 \otimes e_8$	{1347, 168, 2369, 24789}
951:9	$0, 0, 0, 0, \frac{44}{2921}\sqrt{209}e^{12}, \frac{44}{2921}\sqrt{698}e^{13}, \frac{132}{2921}\sqrt{89}e^{23},$ $\frac{44}{2921}\sqrt{534}e^{14}, \frac{88}{2921}\sqrt{82}e^{15} + \frac{44}{2921}\sqrt{29}e^{34}$	$(-\frac{418}{2921}, \frac{814}{2921}, \frac{264}{2921}, -\frac{286}{2921}, \frac{396}{2921}, -\frac{154}{2921}, \frac{1078}{2921}, -\frac{704}{2921}, -\frac{22}{2921})$ $+ \frac{44}{2921}\sqrt{1129}e^2 \otimes e_6 + \frac{44}{2921}\sqrt{1515}e^3 \otimes e_8$	{168, 24789}
951:9	$0, 0, 0, 0, \frac{8}{221}\sqrt{30}e^{12}, \frac{4}{221}\sqrt{137}e^{13}, \frac{4}{221}\sqrt{277}e^{23}, \frac{4}{221}\sqrt{110}e^{14},$ $\frac{4}{221}\sqrt{170}e^{15} + \frac{8}{221}\sqrt{51}e^{34}$	$(\frac{4}{221}, \frac{4}{221}, -\frac{32}{221}, \frac{44}{221}, \frac{8}{221}, -\frac{28}{221}, -\frac{28}{221}, \frac{48}{221}, \frac{12}{221})$ $- \frac{4}{221}\sqrt{331}e^2 \otimes e_6 + \frac{4}{221}\sqrt{471}e^1 \otimes e_7$	{12349, 1456, 2579, 367}
951:9	$0, 0, 0, 0, \frac{8}{221}\sqrt{30}e^{12}, \frac{4}{221}\sqrt{137}e^{13}, \frac{4}{221}\sqrt{277}e^{23}, \frac{4}{221}\sqrt{110}e^{14},$ $\frac{4}{221}\sqrt{170}e^{15} + \frac{8}{221}\sqrt{51}e^{34}$	$(\frac{4}{221}, \frac{4}{221}, -\frac{32}{221}, \frac{44}{221}, \frac{8}{221}, -\frac{28}{221}, -\frac{28}{221}, \frac{48}{221}, \frac{12}{221})$ $+ \frac{4}{221}\sqrt{331}e^2 \otimes e_6 + \frac{4}{221}\sqrt{471}e^1 \otimes e_7$	{12349, 1456, 2579, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:9	$0, 0, 0, 0, \frac{1}{7161}\sqrt{1490}e^{12}, \frac{2}{7161}\sqrt{259}e^{13}, \frac{1}{2387}\sqrt{654}e^{23}, \frac{1}{7161}\sqrt{5002}e^{14},$ $\frac{2}{7161}\sqrt{663}e^{15} + \frac{1}{7161}\sqrt{3790}e^{34}$	$(\frac{4}{2387}, -\frac{26}{7161}, \frac{37}{7161}, -\frac{13}{2387}, -\frac{2}{1023}, \frac{7}{1023}, \frac{1}{651}, -\frac{9}{2387}, -\frac{2}{7161})$ $+ \frac{1}{7161}\sqrt{6190}e^2 \otimes e_8 + \frac{1}{7161}\sqrt{6998}e^1 \otimes e_7$	{123469, 25679}
951:9	$0, 0, 0, 0, \frac{4}{57}\sqrt{5}e^{12}, \frac{4}{399}\sqrt{427}e^{13}, \frac{4}{399}\sqrt{994}e^{23}, \frac{8}{399}\sqrt{231}e^{14},$ $\frac{4}{399}\sqrt{210}e^{15} + \frac{4}{399}\sqrt{371}e^{34}$	$(\frac{2}{19}, -\frac{10}{57}, \frac{8}{57}, -\frac{2}{19}, -\frac{4}{57}, \frac{14}{57}, -\frac{2}{57}, 0, \frac{2}{57})$ $+ \frac{4}{399}\sqrt{1351}e^1 \otimes e_7 + \frac{52}{399}\sqrt{7}e^3 \otimes e_8$	{1689, 2478}
951:9	$0, 0, 0, 0, \frac{86}{4253}\sqrt{37}e^{12}, \frac{43}{4253}\sqrt{102}e^{13}, \frac{43}{4253}\sqrt{1538}e^{23},$ $\frac{86}{4253}\sqrt{739}e^{14}, \frac{86}{4253}\sqrt{197}e^{15} + \frac{142}{4253}\sqrt{11}e^{34}$	$(-\frac{774}{4253}, \frac{1677}{4253}, \frac{473}{4253}, \frac{602}{4253}, \frac{903}{4253}, -\frac{1247}{4253}, \frac{1204}{4253}, -\frac{172}{4253}, \frac{129}{4253})$ $+ \frac{43}{4253}\sqrt{3466}e^4 \otimes e_6 + \frac{43}{4253}\sqrt{4170}e^2 \otimes e_8$	{1234, 489}
951:9	$0, 0, 0, 0, \frac{6}{2309}\sqrt{29830}e^{12}, \frac{6}{2309}\sqrt{50635}e^{13}, \frac{132}{2309}\sqrt{190}e^{23},$ $\frac{12}{2309}\sqrt{22135}e^{14}, \frac{36}{2309}\sqrt{285}e^{15} + \frac{12}{2309}\sqrt{8930}e^{34}$	$(-\frac{474}{2309}, \frac{1027}{2309}, \frac{288}{2309}, -\frac{209}{2309}, \frac{553}{2309}, -\frac{186}{2309}, \frac{1315}{2309}, -\frac{683}{2309}, \frac{79}{2309})$ $+ \frac{18}{2309}\sqrt{20710}e^2 \otimes e_8$	{123469, 135678, 25679, 468}
951:9	$0, 0, 0, 0, \frac{8}{1149}\sqrt{123}e^{12}, \frac{32}{1149}\sqrt{51}e^{13}, \frac{8}{383}\sqrt{165}e^{23}, \frac{8}{383}\sqrt{170}e^{14},$ $\frac{8}{383}\sqrt{15}e^{15} + \frac{8}{1149}\sqrt{69}e^{34}$	$(-\frac{24}{383}, \frac{52}{383}, -\frac{40}{383}, \frac{44}{383}, \frac{28}{383}, -\frac{64}{383}, \frac{12}{383}, \frac{20}{383}, \frac{4}{383})$ $+ \frac{56}{1149}\sqrt{33}e^4 \otimes e_7 + \frac{8}{1149}\sqrt{1590}e^2 \otimes e_8$	{1234569, 13678, 2679, 4568}
951:9	$0, 0, 0, 0, \frac{8}{1149}\sqrt{123}e^{12}, \frac{32}{1149}\sqrt{51}e^{13}, \frac{8}{383}\sqrt{165}e^{23}, \frac{8}{383}\sqrt{170}e^{14},$ $\frac{8}{383}\sqrt{15}e^{15} + \frac{8}{1149}\sqrt{69}e^{34}$	$(-\frac{24}{383}, \frac{52}{383}, -\frac{40}{383}, \frac{44}{383}, \frac{28}{383}, -\frac{64}{383}, \frac{12}{383}, \frac{20}{383}, \frac{4}{383})$ $- \frac{56}{1149}\sqrt{33}e^4 \otimes e_7 + \frac{8}{1149}\sqrt{1590}e^2 \otimes e_8$	{1234569, 13678, 2679, 4568}
951:9	$0, 0, 0, 0, \frac{4}{2393}\sqrt{36795}e^{12}, \frac{28}{2393}\sqrt{669}e^{13}, \frac{6}{2393}\sqrt{66454}e^{23},$ $\frac{2}{2393}\sqrt{430167}e^{14}, \frac{6}{2393}\sqrt{55973}e^{15} + \frac{6}{2393}\sqrt{52405}e^{34}$	$(\frac{581}{2393}, -\frac{743}{2393}, -\frac{14}{2393}, \frac{433}{2393}, -\frac{162}{2393}, \frac{567}{2393}, -\frac{757}{2393}, \frac{1014}{2393}, \frac{419}{2393})$ $+ \frac{6}{2393}\sqrt{150302}e^1 \otimes e_7$	{12349, 1456, 2579, 367}
951:9	$0, 0, 0, 0, \frac{2}{739}\sqrt{25818}e^{12}, \frac{4}{739}\sqrt{18867}e^{13}, \frac{2}{739}\sqrt{25818}e^{23},$ $\frac{6}{739}\sqrt{6951}e^{14}, \frac{2}{739}\sqrt{55277}e^{15} + \frac{6}{739}\sqrt{6951}e^{34}$	$(-\frac{67}{739}, \frac{261}{739}, -\frac{234}{739}, \frac{361}{739}, \frac{194}{739}, -\frac{301}{739}, \frac{27}{739}, \frac{294}{739}, \frac{127}{739})$ $+ \frac{2}{739}\sqrt{209854}e^4 \otimes e_6$	{134, 1678, 23679, 2489}
951:9	$0, 0, 0, 0, \frac{6}{2273}\sqrt{52574}e^{12}, \frac{8}{2273}\sqrt{25203}e^{13}, \frac{2}{2273}\sqrt{583734}e^{23},$ $\frac{6}{2273}\sqrt{77235}e^{14}, \frac{6}{2273}\sqrt{37127}e^{15} + \frac{2}{2273}\sqrt{166665}e^{34}$	$(-\frac{35}{2273}, \frac{187}{2273}, \frac{854}{2273}, \frac{737}{2273}, \frac{152}{2273}, \frac{819}{2273}, \frac{1041}{2273}, -\frac{772}{2273}, \frac{117}{2273})$ $+ \frac{30}{2273}\sqrt{7046}e^3 \otimes e_8$	{1347, 168, 2369, 24789}
951:9	$0, 0, 0, 0, \frac{4}{779}\sqrt{16031}e^{12}, \frac{2}{779}\sqrt{71162}e^{13}, \frac{4}{779}\sqrt{16031}e^{23},$ $\frac{2}{779}\sqrt{23069}e^{14}, \frac{46}{779}\sqrt{17}e^{15} + \frac{2}{779}\sqrt{23069}e^{34}$	$(-\frac{177}{779}, \frac{11}{19}, -\frac{154}{779}, \frac{251}{779}, \frac{274}{779}, -\frac{331}{779}, \frac{297}{779}, \frac{74}{779}, \frac{97}{779})$ $+ \frac{34}{779}\sqrt{874}e^2 \otimes e_6$	{123489, 14568, 25789, 3678}
951:9	$0, 0, 0, 0, \frac{76}{2101}\sqrt{3}e^{12}, \frac{76}{2101}\sqrt{93}e^{13}, \frac{38}{2101}\sqrt{390}e^{23}, \frac{342}{2101}\sqrt{7}e^{14},$ $\frac{38}{2101}\sqrt{205}e^{15} + \frac{114}{2101}\sqrt{21}e^{34}$	$(\frac{19}{191}, -\frac{171}{2101}, -\frac{342}{2101}, \frac{589}{2101}, \frac{38}{2101}, -\frac{133}{2101}, -\frac{513}{2101}, \frac{798}{2101}, \frac{247}{2101})$ $+ \frac{152}{2101}\sqrt{46}e^4 \otimes e_6 + \frac{342}{2101}\sqrt{14}e^1 \otimes e_7$	{12349, 367}
951:9	$0, 0, 0, 0, \frac{13}{1793}\sqrt{802}e^{12}, \frac{39}{1793}\sqrt{113}e^{13}, \frac{26}{1793}\sqrt{97}e^{23},$ $\frac{13}{1793}\sqrt{1211}e^{14}, \frac{13}{1793}\sqrt{878}e^{15} + \frac{26}{1793}\sqrt{154}e^{34}$	$(-\frac{169}{1793}, \frac{312}{1793}, -\frac{13}{1793}, -\frac{13}{1793}, \frac{13}{163}, -\frac{182}{1793}, \frac{299}{1793}, -\frac{182}{1793}, -\frac{26}{1793})$ $- \frac{13}{1793}\sqrt{1591}e^4 \otimes e_6 + \frac{13}{1793}\sqrt{1785}e^3 \otimes e_8$	{1347, 168, 2369, 24789}
951:10	$0, 0, 0, 0, \frac{4}{2411}\sqrt{50601}e^{12}, \frac{4}{2411}\sqrt{178467}e^{13}, \frac{4}{2411}\sqrt{53934}e^{23},$ $\frac{40}{2411}\sqrt{1515}e^{14}, \frac{12}{2411}\sqrt{1111}e^{25} + \frac{12}{2411}\sqrt{16463}e^{34}$	$(-\frac{512}{2411}, \frac{722}{2411}, -\frac{490}{2411}, \frac{1422}{2411}, \frac{210}{2411}, -\frac{1002}{2411}, \frac{232}{2411}, \frac{910}{2411}, \frac{932}{2411})$ $+ \frac{12}{2411}\sqrt{67367}e^4 \otimes e_6$	{123457, 12568, 134, 1678, 23679, 2489, 3569, 45789}
951:10	$0, 0, 0, 0, \frac{1}{1141}\sqrt{294522}e^{12}, \frac{1}{1141}\sqrt{454890}e^{13}, \frac{18}{1141}\sqrt{2570}e^{23},$ $\frac{1}{1141}\sqrt{729366}e^{14}, \frac{3}{1141}\sqrt{34438}e^{25} + \frac{4}{1141}\sqrt{20046}e^{34}$	$(\frac{158}{1141}, -\frac{3}{1141}, -\frac{44}{163}, \frac{460}{1141}, \frac{155}{1141}, -\frac{150}{1141}, -\frac{311}{1141}, \frac{618}{1141}, \frac{152}{1141})$ $+ \frac{6}{1141}\sqrt{42662}e^4 \otimes e_7$	{136789, 149, 2348, 267}
951:10	$0, 0, 0, 0, \frac{4}{915}\sqrt{86}e^{12}, \frac{2}{915}\sqrt{94}e^{13}, \frac{4}{915}\sqrt{314}e^{23}, \frac{2}{915}\sqrt{1466}e^{14},$ $\frac{2}{305}\sqrt{70}e^{25} + \frac{4}{915}\sqrt{247}e^{34}$	$(\frac{4}{183}, -\frac{6}{305}, \frac{2}{61}, -\frac{46}{915}, \frac{2}{915}, \frac{10}{183}, \frac{4}{305}, -\frac{26}{915}, -\frac{16}{915})$ $+ \frac{2}{915}\sqrt{1502}e^1 \otimes e_7 + \frac{4}{915}\sqrt{466}e^2 \otimes e_8$	{123469, 1589}
951:10	$0, 0, 0, 0, \frac{7}{1893}\sqrt{186}e^{12}, \frac{7}{1893}\sqrt{2634}e^{13}, \frac{14}{631}\sqrt{130}e^{23}, \frac{35}{631}\sqrt{22}e^{14},$ $\frac{21}{631}\sqrt{10}e^{25} + \frac{28}{1893}\sqrt{42}e^{34}$	$(-\frac{70}{631}, \frac{63}{631}, -\frac{28}{631}, \frac{84}{631}, -\frac{7}{631}, -\frac{98}{631}, \frac{35}{631}, \frac{14}{631}, \frac{56}{631})$ $+ \frac{14}{1893}\sqrt{1230}e^4 \otimes e_7 + \frac{56}{1893}\sqrt{87}e^2 \otimes e_8$	{13678, 2679}
951:10	$0, 0, 0, 0, \frac{2}{57}\sqrt{26}e^{12}, \frac{2}{57}\sqrt{37}e^{13}, \frac{4}{57}\sqrt{21}e^{23}, \frac{2}{57}\sqrt{79}e^{14},$ $\frac{2}{57}\sqrt{15}e^{25} + \frac{4}{57}\sqrt{5}e^{34}$	$(\frac{8}{57}, -\frac{2}{19}, \frac{2}{19}, -\frac{10}{57}, \frac{2}{57}, \frac{14}{57}, 0, -\frac{2}{57}, -\frac{4}{57})$ $+ \frac{2}{57}\sqrt{103}e^1 \otimes e_7 + \frac{2}{57}\sqrt{106}e^3 \otimes e_8$	{123459, 1689, 2478, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:10	$0, 0, 0, 0, \frac{2}{57}\sqrt{26}e^{12}, \frac{2}{57}\sqrt{37}e^{13}, \frac{4}{57}\sqrt{21}e^{23}, \frac{2}{57}\sqrt{79}e^{14},$ $\frac{2}{57}\sqrt{15}e^{25} + \frac{4}{57}\sqrt{5}e^{34}$	$(\frac{8}{57}, -\frac{2}{19}, \frac{2}{19}, -\frac{10}{57}, \frac{2}{57}, \frac{14}{57}, 0, -\frac{2}{57}, -\frac{4}{57})$ $+ \frac{2}{57}\sqrt{103}e^1 \otimes e_7 - \frac{2}{57}\sqrt{106}e^3 \otimes e_8$	{123459, 1689, 2478, 3567}
951:10	$0, 0, 0, 0, \frac{8}{611}\sqrt{510}e^{12}, \frac{4}{611}\sqrt{6270}e^{13}, \frac{80}{611}\sqrt{30}e^{23}, \frac{4}{611}\sqrt{12270}e^{14},$ $\frac{36}{611}\sqrt{10}e^{25} + \frac{24}{611}\sqrt{235}e^{34}$	$(\frac{268}{611}, -\frac{148}{611}, -\frac{64}{611}, \frac{36}{611}, \frac{120}{611}, \frac{204}{611}, -\frac{212}{611}, \frac{304}{611}, -\frac{28}{611})$ $+ \frac{12}{611}\sqrt{3410}e^1 \otimes e_7$	{12349, 15689, 24578, 367}
951:10	$0, 0, 0, 0, \frac{13}{1213}\sqrt{1254}e^{12}, \frac{1}{1213}\sqrt{249546}e^{13}, \frac{6}{1213}\sqrt{13585}e^{23},$ $\frac{1}{1213}\sqrt{645810}e^{14}, \frac{15}{1213}\sqrt{2090}e^{25} + \frac{2}{1213}\sqrt{94677}e^{34}$	$(-\frac{310}{1213}, \frac{279}{1213}, \frac{286}{1213}, -\frac{38}{1213}, -\frac{31}{1213}, \frac{24}{1213}, \frac{565}{1213}, -\frac{348}{1213}, \frac{248}{1213})$ $+ \frac{6}{1213}\sqrt{36157}e^2 \otimes e_8$	{123469, 1589, 235, 468}
951:10	$0, 0, 0, 0, \frac{1}{307}\sqrt{28542}e^{12}, \frac{1}{307}\sqrt{40470}e^{13}, \frac{6}{307}\sqrt{355}e^{23}, \frac{1}{307}\sqrt{8094}e^{14},$ $\frac{3}{307}\sqrt{5254}e^{25} + \frac{4}{307}\sqrt{1491}e^{34}$	$(-\frac{94}{307}, \frac{99}{307}, -\frac{20}{307}, \frac{124}{307}, \frac{5}{307}, -\frac{114}{307}, \frac{79}{307}, \frac{30}{307}, \frac{104}{307})$ $+ \frac{6}{307}\sqrt{3053}e^2 \otimes e_6$	{123489, 1569, 2457, 3678}
951:10	$0, 0, 0, 0, \frac{8}{221}\sqrt{30}e^{12}, \frac{4}{221}\sqrt{222}e^{13}, \frac{32}{221}\sqrt{3}e^{23}, \frac{4}{221}\sqrt{110}e^{14},$ $\frac{4}{221}\sqrt{170}e^{25} + \frac{8}{221}\sqrt{51}e^{34}$	$(\frac{4}{221}, \frac{4}{221}, -\frac{32}{221}, \frac{44}{221}, \frac{8}{221}, -\frac{28}{221}, -\frac{28}{221}, \frac{48}{221}, \frac{12}{221})$ $- \frac{16}{221}\sqrt{26}e^2 \otimes e_6 + \frac{4}{221}\sqrt{386}e^1 \otimes e_7$	{12349, 15689, 24578, 367}
951:10	$0, 0, 0, 0, \frac{8}{221}\sqrt{30}e^{12}, \frac{4}{221}\sqrt{222}e^{13}, \frac{32}{221}\sqrt{3}e^{23}, \frac{4}{221}\sqrt{110}e^{14},$ $\frac{4}{221}\sqrt{170}e^{25} + \frac{8}{221}\sqrt{51}e^{34}$	$(\frac{4}{221}, \frac{4}{221}, -\frac{32}{221}, \frac{44}{221}, \frac{8}{221}, -\frac{28}{221}, -\frac{28}{221}, \frac{48}{221}, \frac{12}{221})$ $+ \frac{16}{221}\sqrt{26}e^2 \otimes e_6 + \frac{4}{221}\sqrt{386}e^1 \otimes e_7$	{12349, 15689, 24578, 367}
951:10	$0, 0, 0, 0, \frac{4}{2411}\sqrt{50601}e^{12}, \frac{4}{2411}\sqrt{178467}e^{13}, \frac{4}{2411}\sqrt{53934}e^{23},$ $\frac{40}{2411}\sqrt{1515}e^{14}, \frac{12}{2411}\sqrt{1111}e^{25} + \frac{12}{2411}\sqrt{16463}e^{34}$	$(-\frac{512}{2411}, \frac{722}{2411}, -\frac{490}{2411}, \frac{1422}{2411}, \frac{210}{2411}, -\frac{1002}{2411}, \frac{232}{2411}, \frac{910}{2411}, \frac{932}{2411})$ $- \frac{12}{2411}\sqrt{67367}e^4 \otimes e_6$	{123457, 12568, 134, 1678, 23679, 2489, 3569, 45789}
951:11	$0, 0, 0, 0, \frac{102}{1381}\sqrt{14}e^{12}, \frac{17}{1381}\sqrt{627}e^{13}, \frac{34}{1381}\sqrt{167}e^{23},$ $\frac{17}{1381}\sqrt{879}e^{34}, \frac{17}{1381}\sqrt{166}e^{14} + \frac{17}{1381}\sqrt{254}e^{25}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^1 \otimes e_8 + \frac{255}{1381}\sqrt{5}e^4 \otimes e_6$	{1269, 15679, 235678, 368}
951:11	$0, 0, 0, 0, \frac{26}{781}\sqrt{62}e^{12}, \frac{78}{781}\sqrt{10}e^{13}, \frac{26}{781}\sqrt{87}e^{23}, \frac{52}{781}\sqrt{14}e^{34},$ $\frac{13}{781}\sqrt{110}e^{14} + \frac{13}{781}\sqrt{134}e^{25}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{130}{781}, \frac{104}{781}, \frac{104}{781}, \frac{39}{781}, \frac{195}{781})$ $- \frac{13}{781}\sqrt{714}e^2 \otimes e_6 + \frac{39}{781}\sqrt{78}e^1 \otimes e_7$	{1239, 15689, 2578, 367}
951:11	$0, 0, 0, 0, \frac{26}{781}\sqrt{62}e^{12}, \frac{78}{781}\sqrt{10}e^{13}, \frac{26}{781}\sqrt{87}e^{23}, \frac{52}{781}\sqrt{14}e^{34},$ $\frac{13}{781}\sqrt{110}e^{14} + \frac{13}{781}\sqrt{134}e^{25}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{104}{781}, -\frac{39}{781}, \frac{195}{781})$ $+ \frac{13}{781}\sqrt{714}e^2 \otimes e_6 + \frac{39}{781}\sqrt{78}e^1 \otimes e_7$	{1239, 15689, 2578, 367}
951:11	$0, 0, 0, 0, \frac{51}{1381}\sqrt{46}e^{12}, \frac{17}{1381}\sqrt{627}e^{13}, \frac{85}{1381}\sqrt{10}e^{23}, \frac{34}{1381}\sqrt{105}e^{34},$ $\frac{425}{1381}e^{14} + \frac{17}{1381}\sqrt{254}e^{25}$	$(-\frac{289}{1381}, \frac{85}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{255}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^3 \otimes e_9 + \frac{255}{1381}\sqrt{5}e^4 \otimes e_6$	{12345, 1347, 24789, 4589}
951:11	$0, 0, 0, 0, \frac{52}{2177}\sqrt{69}e^{12}, \frac{156}{2177}\sqrt{17}e^{13}, \frac{26}{2177}\sqrt{95}e^{23}, \frac{390}{2177}e^{34},$ $\frac{26}{2177}\sqrt{255}e^{14} + \frac{26}{2177}\sqrt{779}e^{25}$	$(-\frac{403}{2177}, \frac{130}{2177}, \frac{195}{2177}, \frac{260}{2177}, -\frac{39}{2177}, -\frac{208}{2177}, \frac{325}{2177}, \frac{65}{2177}, -\frac{143}{2177})$ $+ \frac{130}{2177}\sqrt{42}e^2 \otimes e_6 + \frac{26}{2177}\sqrt{897}e^3 \otimes e_9$	{145689, 3467}
951:11	$0, 0, 0, 0, \frac{8}{119}\sqrt{129}e^{12}, \frac{4}{119}\sqrt{258}e^{13}, \frac{2}{119}\sqrt{1763}e^{23}, \frac{8}{119}\sqrt{129}e^{34},$ $\frac{4}{119}\sqrt{86}e^{14} + \frac{2}{119}\sqrt{989}e^{25}$	$(\frac{55}{119}, -\frac{10}{119}, -\frac{11}{119}, -\frac{20}{119}, \frac{45}{119}, \frac{44}{119}, -\frac{3}{119}, -\frac{31}{119}, \frac{5}{119})$ $+ \frac{6}{119}\sqrt{473}e^1 \otimes e_8$	{123479, 13459, 2458, 478}
951:11	$0, 0, 0, 0, \frac{102}{1381}\sqrt{14}e^{12}, \frac{17}{1381}\sqrt{627}e^{13}, \frac{34}{1381}\sqrt{167}e^{23},$ $\frac{17}{1381}\sqrt{879}e^{34}, \frac{17}{1381}\sqrt{166}e^{14} + \frac{17}{1381}\sqrt{254}e^{25}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^1 \otimes e_8 - \frac{255}{1381}\sqrt{5}e^4 \otimes e_6$	{1269, 15679, 235678, 368}
951:11	$0, 0, 0, 0, \frac{51}{1381}\sqrt{46}e^{12}, \frac{17}{1381}\sqrt{627}e^{13}, \frac{85}{1381}\sqrt{10}e^{23}, \frac{34}{1381}\sqrt{105}e^{34},$ $\frac{425}{1381}e^{14} + \frac{17}{1381}\sqrt{254}e^{25}$	$(-\frac{289}{1381}, \frac{85}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{255}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^3 \otimes e_9 - \frac{255}{1381}\sqrt{5}e^4 \otimes e_6$	{12345, 1347, 24789, 4589}
951:11	$0, 0, 0, 0, \frac{8}{719}\sqrt{303}e^{12}, \frac{24}{719}\sqrt{37}e^{13}, \frac{8}{719}\sqrt{906}e^{23}, \frac{24}{719}\sqrt{39}e^{34},$ $\frac{8}{719}\sqrt{906}e^{14} + \frac{32}{719}\sqrt{15}e^{25}$	$(\frac{100}{719}, -\frac{64}{719}, \frac{68}{719}, -\frac{128}{719}, \frac{36}{719}, \frac{168}{719}, \frac{4}{719}, -\frac{60}{719}, -\frac{28}{719})$ $+ \frac{8}{719}\sqrt{1065}e^1 \otimes e_7 + \frac{8}{719}\sqrt{921}e^3 \otimes e_9$	{1689, 3567}
951:11	$0, 0, 0, 0, \frac{1}{269}\sqrt{6346}e^{12}, \frac{2}{269}\sqrt{2505}e^{13}, \frac{2}{269}\sqrt{12358}e^{23}, \frac{14}{269}\sqrt{167}e^{34},$ $\frac{2}{269}\sqrt{12358}e^{14} + \frac{4}{269}\sqrt{1837}e^{25}$	$(\frac{110}{269}, -\frac{9}{269}, -\frac{48}{269}, -\frac{18}{269}, \frac{101}{269}, \frac{62}{269}, -\frac{57}{269}, -\frac{66}{269}, \frac{92}{269})$ $+ \frac{1}{269}\sqrt{79158}e^1 \otimes e_7$	{12359, 1689, 278, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:11	$0, 0, 0, 0, \frac{1}{95}\sqrt{1010}e^{12}, \frac{4}{95}\sqrt{15}e^{13}, \frac{2}{19}\sqrt{7}e^{23}, \frac{2}{95}\sqrt{295}e^{34},$ $\frac{2}{95}\sqrt{285}e^{14} + \frac{2}{19}\sqrt{11}e^{25}$	$(0, \frac{1}{19}, -\frac{2}{19}, \frac{2}{19}, \frac{1}{19}, -\frac{2}{19}, -\frac{1}{19}, 0, \frac{2}{19})$ $+ \frac{1}{95}\sqrt{510}e^1 \otimes e_7 + \frac{2}{95}\sqrt{330}e^2 \otimes e_8$	{1234679, 145789}
951:11	$0, 0, 0, 0, \frac{6}{577}\sqrt{1558}e^{12}, \frac{2}{577}\sqrt{2622}e^{13}, \frac{4}{577}\sqrt{1387}e^{23}, \frac{6}{577}\sqrt{1558}e^{34},$ $\frac{6}{577}\sqrt{1330}e^{14} + \frac{4}{577}\sqrt{3287}e^{25}$	$(\frac{85}{577}, \frac{8}{577}, -\frac{84}{577}, \frac{16}{577}, \frac{93}{577}, \frac{1}{577}, -\frac{76}{577}, -\frac{68}{577}, \frac{101}{577})$ $+ \frac{26}{577}\sqrt{114}e^2 \otimes e_8$	{1234679, 145789, 23457, 4678}
951:11	$0, 0, 0, 0, \frac{34}{2027}\sqrt{190}e^{12}, \frac{34}{2027}\sqrt{339}e^{13}, \frac{34}{2027}\sqrt{635}e^{23},$ $\frac{34}{2027}\sqrt{317}e^{34}, \frac{714}{2027}\sqrt{2}e^{14} + \frac{34}{2027}\sqrt{451}e^{25}$	$(\frac{255}{2027}, \frac{170}{2027}, -\frac{493}{2027}, \frac{340}{2027}, \frac{425}{2027}, -\frac{238}{2027}, -\frac{323}{2027}, -\frac{153}{2027}, \frac{595}{2027})$ $+ \frac{34}{2027}\sqrt{1122}e^1 \otimes e_7 + \frac{34}{2027}\sqrt{741}e^4 \otimes e_6$	{1689, 3567}
951:11	$0, 0, 0, 0, \frac{26}{2177}\sqrt{874}e^{12}, \frac{156}{2177}\sqrt{17}e^{13}, \frac{26}{2177}\sqrt{503}e^{23},$ $\frac{52}{2177}\sqrt{131}e^{34}, \frac{26}{2177}\sqrt{554}e^{14} + \frac{26}{2177}\sqrt{779}e^{25}$	$(\frac{195}{2177}, \frac{130}{2177}, -\frac{403}{2177}, \frac{260}{2177}, \frac{325}{2177}, -\frac{208}{2177}, -\frac{39}{2177}, -\frac{143}{2177}, \frac{65}{311})$ $+ \frac{130}{2177}\sqrt{42}e^2 \otimes e_6 + \frac{26}{2177}\sqrt{897}e^1 \otimes e_8$	{123479, 2458}
951:11	$0, 0, 0, 0, \frac{2}{31}\sqrt{46}e^{12}, \frac{2}{31}\sqrt{6}e^{13}, \frac{2}{31}\sqrt{22}e^{23}, \frac{4}{31}\sqrt{11}e^{34},$ $\frac{2}{31}\sqrt{42}e^{14} + \frac{4}{31}\sqrt{11}e^{25}$	$(\frac{5}{31}, 0, -\frac{4}{31}, 0, \frac{5}{31}, \frac{1}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{5}{31})$ $- \frac{2}{31}\sqrt{6}e^4 \otimes e_7 + \frac{4}{31}\sqrt{15}e^2 \otimes e_8$	{1234679, 145789, 23457, 4678}
951:11	$0, 0, 0, 0, \frac{2}{31}\sqrt{46}e^{12}, \frac{2}{31}\sqrt{6}e^{13}, \frac{2}{31}\sqrt{22}e^{23}, \frac{4}{31}\sqrt{11}e^{34},$ $\frac{2}{31}\sqrt{42}e^{14} + \frac{4}{31}\sqrt{11}e^{25}$	$(\frac{5}{31}, 0, -\frac{4}{31}, 0, \frac{5}{31}, \frac{1}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{5}{31})$ $+ \frac{2}{31}\sqrt{6}e^4 \otimes e_7 + \frac{4}{31}\sqrt{15}e^2 \otimes e_8$	{1234679, 145789, 23457, 4678}
951:11	$0, 0, 0, 0, \frac{3}{1363}\sqrt{2478}e^{12}, \frac{6}{1363}\sqrt{231}e^{13}, \frac{3}{1363}\sqrt{4398}e^{23}, \frac{3}{1363}\sqrt{102}e^{34},$ $\frac{3}{1363}\sqrt{4398}e^{14} + \frac{6}{1363}\sqrt{429}e^{25}$	$(-\frac{93}{1363}, \frac{39}{1363}, \frac{12}{1363}, \frac{78}{1363}, -\frac{54}{1363}, -\frac{81}{1363}, \frac{51}{1363}, \frac{90}{1363}, -\frac{15}{1363})$ $+ \frac{3}{1363}\sqrt{3210}e^3 \otimes e_9 + \frac{3}{1363}\sqrt{4530}e^4 \otimes e_7$	{12579, 3578}
951:11	$0, 0, 0, 0, \frac{2}{101}\sqrt{770}e^{12}, \frac{22}{101}\sqrt{6}e^{13}, \frac{2}{101}\sqrt{1606}e^{23}, \frac{4}{101}\sqrt{22}e^{34},$ $\frac{2}{101}\sqrt{1606}e^{14} + \frac{4}{101}\sqrt{253}e^{25}$	$(\frac{3}{101}, \frac{16}{101}, -\frac{28}{101}, \frac{32}{101}, \frac{19}{101}, -\frac{25}{101}, -\frac{12}{101}, \frac{4}{101}, \frac{35}{101})$ $+ \frac{2}{101}\sqrt{2046}e^4 \otimes e_7$	{125789, 13679, 2678, 357}
951:11	$0, 0, 0, 0, \frac{17}{2341}\sqrt{2702}e^{12}, \frac{51}{2341}\sqrt{46}e^{13}, \frac{68}{2341}\sqrt{70}e^{23},$ $\frac{34}{2341}\sqrt{706}e^{34}, \frac{68}{2341}\sqrt{141}e^{14} + \frac{34}{2341}\sqrt{641}e^{25}$	$(\frac{255}{2341}, \frac{85}{2341}, -\frac{374}{2341}, \frac{170}{2341}, \frac{340}{2341}, -\frac{119}{2341}, -\frac{289}{2341}, -\frac{204}{2341}, \frac{425}{2341})$ $+ \frac{17}{2341}\sqrt{366}e^4 \otimes e_6 + \frac{17}{2341}\sqrt{3774}e^2 \otimes e_8$	{145789, 23457}
951:11	$0, 0, 0, 0, \frac{13}{391}\sqrt{194}e^{12}, \frac{13}{391}\sqrt{186}e^{13}, \frac{13}{391}\sqrt{478}e^{23}, \frac{52}{391}e^{34},$ $\frac{104}{391}\sqrt{7}e^{14} + \frac{208}{391}e^{25}$	$(0, \frac{65}{391}, -\frac{104}{391}, \frac{130}{391}, \frac{65}{391}, -\frac{104}{391}, -\frac{39}{391}, \frac{26}{391}, \frac{130}{391})$ $+ \frac{39}{391}\sqrt{10}e^2 \otimes e_6 + \frac{52}{391}\sqrt{39}e^4 \otimes e_7$	{125789, 13679}
951:11	$0, 0, 0, 0, \frac{13}{295}\sqrt{230}e^{12}, \frac{39}{295}\sqrt{22}e^{13}, \frac{13}{295}\sqrt{66}e^{23}, \frac{104}{295}e^{34},$ $\frac{26}{295}\sqrt{58}e^{14} + \frac{26}{295}\sqrt{74}e^{25}$	$(-\frac{52}{295}, \frac{13}{59}, -\frac{52}{295}, \frac{26}{59}, \frac{13}{295}, -\frac{104}{295}, \frac{13}{295}, \frac{78}{295}, \frac{78}{295})$ $+ \frac{13}{295}\sqrt{498}e^2 \otimes e_6$	{123479, 1456789, 2458, 346}
951:11	$0, 0, 0, 0, \frac{6}{119}\sqrt{86}e^{12}, \frac{4}{119}\sqrt{258}e^{13}, \frac{10}{119}\sqrt{43}e^{23}, \frac{2}{119}\sqrt{645}e^{34},$ $\frac{10}{119}\sqrt{43}e^{14} + \frac{2}{119}\sqrt{989}e^{25}$	$(-\frac{11}{119}, -\frac{10}{119}, \frac{55}{119}, -\frac{20}{119}, -\frac{3}{119}, \frac{44}{119}, \frac{45}{119}, \frac{5}{119}, -\frac{31}{119})$ $+ \frac{6}{119}\sqrt{473}e^3 \otimes e_9$	{12345, 1347, 24789, 4589}
951:11	$0, 0, 0, 0, \frac{48}{557}\sqrt{7}e^{12}, \frac{16}{557}\sqrt{114}e^{13}, \frac{16}{557}\sqrt{38}e^{23}, \frac{8}{557}\sqrt{582}e^{34},$ $\frac{8}{557}\sqrt{178}e^{14} + \frac{16}{557}\sqrt{101}e^{25}$	$(\frac{88}{557}, -\frac{64}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{176}{557}, \frac{24}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+ \frac{24}{557}\sqrt{110}e^1 \otimes e_8 + \frac{24}{557}\sqrt{110}e^3 \otimes e_9$	{1269, 15679, 235678, 368}
951:11	$0, 0, 0, 0, \frac{48}{557}\sqrt{7}e^{12}, \frac{16}{557}\sqrt{114}e^{13}, \frac{16}{557}\sqrt{38}e^{23}, \frac{8}{557}\sqrt{582}e^{34},$ $\frac{8}{557}\sqrt{178}e^{14} + \frac{16}{557}\sqrt{101}e^{25}$	$(\frac{88}{557}, -\frac{64}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{176}{557}, \frac{24}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+ \frac{24}{557}\sqrt{110}e^1 \otimes e_8 - \frac{24}{557}\sqrt{110}e^3 \otimes e_9$	{1269, 15679, 235678, 368}
951:11	$0, 0, 0, 0, \frac{21}{3061}\sqrt{278}e^{12}, \frac{56}{3061}\sqrt{3}e^{13}, \frac{14}{3061}\sqrt{181}e^{23}, \frac{84}{3061}\sqrt{21}e^{34},$ $\frac{21}{3061}\sqrt{226}e^{14} + \frac{28}{3061}\sqrt{185}e^{25}$	$(\frac{175}{3061}, -\frac{91}{3061}, \frac{42}{3061}, -\frac{182}{3061}, \frac{84}{3061}, \frac{217}{3061}, -\frac{49}{3061}, -\frac{140}{3061}, -\frac{7}{3061})$ $+ \frac{21}{3061}\sqrt{174}e^3 \otimes e_9 + \frac{7}{3061}\sqrt{3930}e^2 \otimes e_8$	{145789, 23457}
951:11	$0, 0, 0, 0, \frac{204}{575}e^{12}, \frac{34}{575}\sqrt{141}e^{13}, \frac{34}{575}\sqrt{47}e^{23}, \frac{34}{575}\sqrt{123}e^{34},$ $\frac{136}{575}\sqrt{7}e^{14} + \frac{34}{575}\sqrt{11}e^{25}$	$(-\frac{119}{575}, \frac{34}{115}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, -\frac{238}{575}, \frac{51}{575}, \frac{221}{575}, \frac{221}{575})$ $+ \frac{102}{575}\sqrt{53}e^4 \otimes e_6$	{123457, 134, 2489, 45789}
951:11	$0, 0, 0, 0, \frac{1}{17}\sqrt{14}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{1}{17}\sqrt{58}e^{23}, \frac{2}{17}\sqrt{5}e^{34},$ $\frac{2}{17}\sqrt{19}e^{14} + \frac{2}{17}\sqrt{10}e^{25}$	$(\frac{3}{17}, \frac{1}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{1}{17}, -\frac{3}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{102}e^4 \otimes e_7 + \frac{3}{17}\sqrt{6}e^1 \otimes e_8$	{12579, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:12	$0, 0, 0, 0, \frac{145}{7989}\sqrt{42}e^{12}, \frac{29}{7989}\sqrt{1634}e^{13}, \frac{29}{2663}\sqrt{574}e^{24},$ $\frac{145}{7989}\sqrt{94}e^{14} + \frac{58}{7989}\sqrt{730}e^{23}, \frac{29}{7989}\sqrt{3998}e^{15}$	$(\frac{58}{2663}, -\frac{928}{7989}, \frac{1363}{7989}, \frac{87}{2663}, -\frac{754}{7989}, \frac{1537}{7989}, -\frac{667}{7989}, \frac{145}{2663}, -\frac{580}{7989})$ $+\frac{29}{7989}\sqrt{6598}e^4 \otimes e_9 + \frac{58}{7989}\sqrt{1985}e^1 \otimes e_7$	{2579, 478}
951:12	$0, 0, 0, 0, \frac{46}{1317}\sqrt{33}e^{12}, \frac{23}{1317}\sqrt{358}e^{13}, \frac{46}{1317}\sqrt{211}e^{24},$ $\frac{69}{439}\sqrt{2}e^{14} + \frac{46}{1317}\sqrt{33}e^{23}, \frac{322}{1317}\sqrt{2}e^{15}$	$(-\frac{69}{439}, \frac{230}{1317}, -\frac{92}{1317}, \frac{115}{439}, \frac{23}{1317}, -\frac{299}{1317}, \frac{575}{1317}, \frac{46}{439}, -\frac{184}{1317})$ $+\frac{23}{1317}\sqrt{1066}e^4 \otimes e_9 + \frac{23}{1317}\sqrt{1262}e^2 \otimes e_6$	{12379, 25789}
951:12	$0, 0, 0, 0, \frac{1}{129}\sqrt{70}e^{12}, \frac{1}{43}\sqrt{11}e^{13}, \frac{1}{258}\sqrt{391}e^{24},$ $\frac{1}{129}\sqrt{70}e^{14} + \frac{1}{258}\sqrt{193}e^{23}, \frac{1}{258}\sqrt{15}e^{15}$	$(\frac{1}{43}, \frac{1}{129}, -\frac{1}{43}, -\frac{5}{129}, \frac{4}{129}, 0, -\frac{4}{129}, -\frac{2}{129}, \frac{7}{129})$ $+\frac{1}{258}\sqrt{467}e^2 \otimes e_6 + \frac{1}{258}\sqrt{494}e^3 \otimes e_7$	{2789, 3568}
951:12	$0, 0, 0, 0, \frac{1}{596}\sqrt{111435}e^{12}, \frac{21}{298}\sqrt{115}e^{13}, \frac{25}{298}\sqrt{69}e^{24},$ $\frac{13}{596}\sqrt{690}e^{14} + \frac{1}{596}\sqrt{111435}e^{23}, \frac{3}{298}\sqrt{2530}e^{15}$	$(-\frac{205}{1192}, \frac{35}{149}, -\frac{131}{1192}, \frac{177}{596}, \frac{75}{1192}, -\frac{42}{149}, \frac{317}{596}, \frac{1}{8}, -\frac{65}{596})$ $+\frac{23}{596}\sqrt{690}e^4 \otimes e_6$	{1347, 168, 356, 4578}
951:12	$0, 0, 0, 0, \frac{2}{2657}\sqrt{426099}e^{12}, \frac{2}{2657}\sqrt{523798}e^{13}, \frac{2}{2657}\sqrt{687998}e^{24},$ $\frac{2}{2657}\sqrt{179799}e^{14} + \frac{2}{2657}\sqrt{488495}e^{23}, \frac{20}{2657}\sqrt{4926}e^{15}$	$(\frac{681}{2657}, -\frac{333}{2657}, \frac{386}{2657}, -\frac{628}{2657}, \frac{348}{2657}, \frac{1067}{2657}, -\frac{961}{2657}, \frac{53}{2657}, \frac{1029}{2657})$ $+\frac{4}{2657}\sqrt{457297}e^1 \otimes e_7$	{12469, 1568, 2579, 478}
951:12	$0, 0, 0, 0, \frac{148}{3749}\sqrt{93}e^{12}, \frac{185}{3749}\sqrt{114}e^{13}, \frac{666}{3749}\sqrt{6}e^{24},$ $\frac{148}{3749}\sqrt{31}e^{14} + \frac{37}{3749}\sqrt{106}e^{23}, \frac{37}{3749}\sqrt{46}e^{15}$	$(-\frac{592}{3749}, \frac{185}{3749}, \frac{370}{3749}, \frac{1147}{3749}, -\frac{407}{3749}, -\frac{222}{3749}, \frac{1332}{3749}, \frac{555}{3749}, -\frac{999}{3749})$ $+\frac{111}{3749}\sqrt{446}e^4 \otimes e_6 + \frac{74}{3749}\sqrt{691}e^3 \otimes e_9$	{1689, 45789}
951:12	$0, 0, 0, 0, \frac{12}{653}\sqrt{717}e^{12}, \frac{28}{653}\sqrt{239}e^{13}, \frac{2}{653}\sqrt{49234}e^{24},$ $\frac{2}{653}\sqrt{43259}e^{14} + \frac{12}{653}\sqrt{717}e^{23}, \frac{2}{653}\sqrt{7170}e^{15}$	$(-\frac{48}{653}, \frac{231}{653}, -\frac{199}{653}, \frac{80}{653}, \frac{183}{653}, -\frac{247}{653}, \frac{311}{653}, \frac{32}{653}, \frac{135}{653})$ $+\frac{4}{653}\sqrt{32743}e^2 \otimes e_6$	{12379, 156, 25789, 368}
951:12	$0, 0, 0, 0, \frac{36}{911}\sqrt{10}e^{12}, \frac{18}{911}\sqrt{238}e^{13}, \frac{18}{911}\sqrt{159}e^{24},$ $\frac{18}{911}\sqrt{255}e^{14} + \frac{162}{911}\sqrt{3}e^{23}, \frac{234}{911}e^{15}$	$(-\frac{108}{911}, \frac{63}{911}, \frac{9}{911}, \frac{180}{911}, -\frac{45}{911}, -\frac{99}{911}, \frac{243}{911}, \frac{72}{911}, -\frac{153}{911})$ $+\frac{18}{911}\sqrt{406}e^3 \otimes e_9 + \frac{18}{911}\sqrt{421}e^2 \otimes e_6$	{25789, 368}
951:12	$0, 0, 0, 0, \frac{39}{5641}\sqrt{814}e^{12}, \frac{78}{5641}\sqrt{642}e^{13}, \frac{39}{5641}\sqrt{2098}e^{24},$ $\frac{39}{5641}\sqrt{766}e^{14} + \frac{39}{5641}\sqrt{370}e^{23}, \frac{78}{5641}\sqrt{790}e^{15}$	$(\frac{468}{5641}, -\frac{1014}{5641}, \frac{1443}{5641}, -\frac{39}{5641}, -\frac{546}{5641}, \frac{1911}{5641}, -\frac{1053}{5641}, \frac{429}{5641}, -\frac{78}{5641})$ $+\frac{39}{5641}\sqrt{4570}e^3 \otimes e_9 + \frac{39}{5641}\sqrt{5458}e^1 \otimes e_7$	{124689, 25789}
951:12	$0, 0, 0, 0, \frac{30}{197}\sqrt{2}e^{12}, \frac{5}{197}\sqrt{110}e^{13}, \frac{5}{197}\sqrt{127}e^{24},$ $\frac{5}{197}\sqrt{38}e^{14} + \frac{5}{197}\sqrt{21}e^{23}, \frac{5}{197}\sqrt{51}e^{15}$	$(\frac{15}{197}, \frac{15}{197}, -\frac{25}{197}, -\frac{25}{197}, \frac{30}{197}, -\frac{10}{197}, -\frac{10}{197}, -\frac{10}{197}, \frac{45}{197})$ $+\frac{5}{197}\sqrt{186}e^1 \otimes e_7 + \frac{65}{197}e^2 \otimes e_6$	{123489, 3467}
951:12	$0, 0, 0, 0, \frac{4}{2573}\sqrt{42294}e^{12}, \frac{4}{2573}\sqrt{129903}e^{13}, \frac{6}{2573}\sqrt{10070}e^{24},$ $\frac{2}{2573}\sqrt{617291}e^{14} + \frac{4}{2573}\sqrt{230603}e^{23}, \frac{2}{2573}\sqrt{896230}e^{15}$	$(-\frac{220}{2573}, -\frac{433}{2573}, \frac{1141}{2573}, \frac{928}{2573}, -\frac{653}{2573}, \frac{921}{2573}, \frac{495}{2573}, \frac{708}{2573}, -\frac{873}{2573})$ $+\frac{4}{2573}\sqrt{545794}e^3 \otimes e_9$	{12357, 169, 2346, 4579}
951:12	$0, 0, 0, 0, \frac{12}{2501}\sqrt{13490}e^{12}, \frac{12}{2501}\sqrt{24985}e^{13}, \frac{6}{2501}\sqrt{98230}e^{24},$ $\frac{6}{2501}\sqrt{51395}e^{14} + \frac{12}{2501}\sqrt{12065}e^{23}, \frac{18}{2501}\sqrt{570}e^{15}$	$(\frac{460}{2501}, -\frac{625}{2501}, \frac{941}{2501}, -\frac{144}{2501}, \frac{165}{2501}, \frac{1401}{2501}, -\frac{769}{2501}, \frac{316}{2501}, \frac{295}{2501})$ $+\frac{12}{2501}\sqrt{51110}e^3 \otimes e_7$	{23469, 2789, 3568, 457}
951:12	$0, 0, 0, 0, \frac{86}{5405}\sqrt{478}e^{12}, \frac{43}{5405}\sqrt{2270}e^{13}, \frac{129}{5405}\sqrt{454}e^{24},$ $\frac{559}{5405}\sqrt{2}e^{14} + \frac{43}{5405}\sqrt{802}e^{23}, \frac{43}{1081}\sqrt{46}e^{15}$	$(-\frac{43}{5405}, -\frac{946}{5405}, \frac{344}{1081}, \frac{817}{5405}, -\frac{43}{235}, \frac{1677}{5405}, -\frac{129}{5405}, \frac{774}{5405}, -\frac{1032}{5405})$ $+\frac{43}{5405}\sqrt{4298}e^4 \otimes e_9 + \frac{86}{5405}\sqrt{1357}e^3 \otimes e_7$	{2346, 35689}
951:12	$0, 0, 0, 0, \frac{1}{87}\sqrt{410}e^{12}, \frac{1}{435}\sqrt{6330}e^{13}, \frac{2}{435}\sqrt{1410}e^{24},$ $\frac{2}{87}\sqrt{6}e^{14} + \frac{2}{435}\sqrt{195}e^{23}, \frac{1}{145}\sqrt{230}e^{15}$	$(-\frac{1}{29}, -\frac{1}{29}, \frac{11}{145}, \frac{11}{145}, -\frac{2}{29}, \frac{6}{145}, \frac{6}{145}, \frac{6}{145}, -\frac{3}{29})$ $+\frac{1}{435}\sqrt{6510}e^4 \otimes e_6 + \frac{2}{435}\sqrt{1455}e^3 \otimes e_7$	{356, 4578}
951:12	$0, 0, 0, 0, \frac{1}{644}\sqrt{53295}e^{12}, \frac{1}{322}\sqrt{10659}e^{13}, \frac{1}{644}\sqrt{227766}e^{24},$ $\frac{1}{322}\sqrt{36465}e^{14} + \frac{1}{644}\sqrt{53295}e^{23}, \frac{1}{161}\sqrt{12903}e^{15}$	$(-\frac{247}{1288}, -\frac{3}{644}, \frac{381}{1288}, \frac{311}{644}, -\frac{11}{56}, \frac{67}{644}, \frac{11}{23}, \frac{375}{1288}, -\frac{125}{322})$ $+\frac{11}{92}\sqrt{102}e^4 \otimes e_9$	{1245, 189, 2348, 359}
951:12	$0, 0, 0, 0, \frac{7}{6861}\sqrt{786}e^{12}, \frac{7}{6861}\sqrt{5322}e^{13}, \frac{14}{6861}\sqrt{1303}e^{24},$ $\frac{14}{6861}\sqrt{679}e^{14} + \frac{7}{6861}e^{23}, \frac{7}{6861}\sqrt{330}e^{15}$	$(\frac{21}{2287}, \frac{175}{6861}, -\frac{91}{2287}, -\frac{161}{6861}, \frac{238}{6861}, -\frac{70}{2287}, \frac{14}{6861}, -\frac{98}{6861}, \frac{301}{6861})$ $+\frac{14}{6861}\sqrt{1529}e^1 \otimes e_7 + \frac{7}{6861}\sqrt{6674}e^4 \otimes e_6$	{168, 4578}
951:13	$0, 0, 0, 0, \frac{24}{407}\sqrt{42}e^{12}, \frac{6}{407}\sqrt{57}e^{13}, \frac{6}{407}\sqrt{303}e^{14}, \frac{6}{407}\sqrt{615}e^{34},$ $\frac{6}{407}\sqrt{615}e^{15} + \frac{18}{407}\sqrt{61}e^{23}$	$(\frac{3}{407}, \frac{63}{407}, \frac{6}{407}, -\frac{57}{407}, \frac{6}{37}, \frac{9}{407}, -\frac{54}{407}, -\frac{51}{407}, \frac{69}{407})$ $+\frac{18}{407}\sqrt{101}e^1 \otimes e_8 + \frac{18}{407}\sqrt{19}e^2 \otimes e_6$	{123479, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:13	$0, 0, 0, 0, \frac{3}{19}\sqrt{2}e^{12}, \frac{1}{19}\sqrt{15}e^{13}, \frac{1}{19}\sqrt{57}e^{14}, \frac{2}{19}\sqrt{6}e^{34},$ $\frac{3}{19}\sqrt{5}e^{15} + \frac{2}{19}\sqrt{21}e^{23}$	$(\frac{1}{19}, \frac{3}{19}, \frac{2}{19}, -\frac{5}{19}, \frac{4}{19}, \frac{3}{19}, -\frac{4}{19}, -\frac{3}{19}, \frac{5}{19})$ $+ \frac{3}{19}\sqrt{14}e^3 \otimes e_7 + \frac{9}{19}e^2 \otimes e_8$	{125679, 4578}
951:13	$0, 0, 0, 0, \frac{6}{193}\sqrt{231}e^{12}, \frac{12}{193}\sqrt{3}e^{13}, \frac{3}{193}\sqrt{618}e^{14}, \frac{6}{193}\sqrt{255}e^{34},$ $\frac{6}{193}\sqrt{255}e^{15} + \frac{18}{193}\sqrt{29}e^{23}$	$(\frac{12}{193}, 0, \frac{24}{193}, -\frac{39}{193}, \frac{12}{193}, \frac{36}{193}, -\frac{27}{193}, -\frac{15}{193}, \frac{24}{193})$ $+ \frac{36}{193}\sqrt{2}e^2 \otimes e_7 + \frac{9}{193}\sqrt{142}e^1 \otimes e_8$	{123479, 2356789}
951:13	$0, 0, 0, 0, \frac{1}{23}\sqrt{30}e^{12}, \frac{1}{23}\sqrt{195}e^{13}, \frac{1}{23}\sqrt{195}e^{14}, \frac{1}{23}\sqrt{165}e^{34},$ $\frac{1}{23}\sqrt{165}e^{15} + \frac{1}{23}\sqrt{195}e^{23}$	$(-\frac{1}{23}, -\frac{2}{23}, -\frac{2}{23}, \frac{11}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{10}{23}, \frac{9}{23}, -\frac{4}{23})$ $+ \frac{3}{23}\sqrt{65}e^4 \otimes e_9$	{123456, 136789, 2347, 3589}
951:13	$0, 0, 0, 0, \frac{2}{37}\sqrt{3}e^{12}, \frac{1}{37}\sqrt{51}e^{13}, \frac{1}{37}\sqrt{105}e^{14}, \frac{1}{37}\sqrt{15}e^{34},$ $\frac{1}{37}\sqrt{15}e^{15} + \frac{1}{37}\sqrt{105}e^{23}$	$(-\frac{2}{37}, \frac{5}{37}, -\frac{4}{37}, \frac{4}{37}, \frac{3}{37}, -\frac{6}{37}, \frac{2}{37}, 0, \frac{1}{37})$ $+ \frac{3}{37}\sqrt{11}e^4 \otimes e_9 + \frac{6}{37}\sqrt{3}e^2 \otimes e_7$	{2689, 4567}
951:13	$0, 0, 0, 0, \frac{39}{83}\sqrt{2}e^{12}, \frac{5}{83}\sqrt{78}e^{13}, \frac{10}{83}\sqrt{39}e^{14}, \frac{2}{83}\sqrt{273}e^{34},$ $\frac{39}{83}\sqrt{2}e^{15} + \frac{10}{83}\sqrt{39}e^{23}$	$(\frac{11}{83}, -\frac{3}{83}, \frac{22}{83}, -\frac{28}{83}, \frac{8}{83}, \frac{33}{83}, -\frac{17}{83}, -\frac{6}{83}, \frac{19}{83})$ $+ \frac{15}{83}\sqrt{26}e^3 \otimes e_7$	{1256789, 1678, 2479, 457}
951:13	$0, 0, 0, 0, \frac{3}{391}\sqrt{102}e^{12}, \frac{5}{391}\sqrt{30}e^{13}, \frac{20}{391}\sqrt{3}e^{14}, \frac{2}{391}\sqrt{42}e^{34},$ $\frac{3}{391}\sqrt{102}e^{15} + \frac{30}{391}e^{23}$	$(-\frac{3}{391}, \frac{19}{391}, -\frac{6}{391}, -\frac{6}{391}, \frac{16}{391}, -\frac{9}{391}, -\frac{9}{391}, -\frac{12}{391}, \frac{13}{391})$ $+ \frac{15}{391}\sqrt{6}e^3 \otimes e_7 - \frac{30}{391}e^4 \otimes e_6$	{1256789, 1678, 2479, 457}
951:13	$0, 0, 0, 0, \frac{24}{637}\sqrt{57}e^{12}, \frac{80}{637}\sqrt{6}e^{13}, \frac{40}{637}\sqrt{30}e^{14}, \frac{88}{637}\sqrt{3}e^{34},$ $\frac{24}{637}\sqrt{82}e^{15} + \frac{40}{637}\sqrt{39}e^{23}$	$(\frac{4}{637}, \frac{108}{637}, \frac{8}{637}, -\frac{92}{637}, \frac{16}{91}, \frac{12}{637}, -\frac{88}{637}, -\frac{12}{91}, \frac{116}{637})$ $+ \frac{120}{637}\sqrt{3}e^2 \otimes e_6 + \frac{120}{637}\sqrt{5}e^3 \otimes e_7$	{1678, 2479}
951:13	$0, 0, 0, 0, \frac{2}{169}\sqrt{102}e^{12}, \frac{10}{169}\sqrt{51}e^{13}, \frac{20}{169}\sqrt{51}e^{14}, \frac{4}{169}\sqrt{663}e^{34},$ $\frac{4}{169}\sqrt{663}e^{15} + \frac{20}{169}\sqrt{51}e^{23}$	$(-\frac{2}{169}, \frac{71}{169}, -\frac{4}{169}, -\frac{29}{169}, \frac{69}{169}, -\frac{6}{169}, -\frac{31}{169}, -\frac{33}{169}, \frac{67}{169})$ $+ \frac{30}{169}\sqrt{34}e^2 \otimes e_7$	{12459, 178, 2689, 4567}
951:13	$0, 0, 0, 0, \frac{44}{1061}\sqrt{33}e^{12}, \frac{55}{1061}\sqrt{6}e^{13}, \frac{165}{1061}\sqrt{14}e^{14}, \frac{11}{1061}\sqrt{978}e^{34},$ $\frac{264}{1061}\sqrt{3}e^{15} + \frac{220}{1061}\sqrt{6}e^{23}$	$(-\frac{88}{1061}, \frac{374}{1061}, -\frac{176}{1061}, \frac{99}{1061}, \frac{286}{1061}, -\frac{264}{1061}, \frac{11}{1061}, -\frac{77}{1061}, \frac{198}{1061})$ $+ \frac{165}{1061}\sqrt{10}e^4 \otimes e_6 + \frac{660}{1061}e^2 \otimes e_7$	{1678, 457}
951:13	$0, 0, 0, 0, \frac{3}{391}\sqrt{102}e^{12}, \frac{5}{391}\sqrt{30}e^{13}, \frac{20}{391}\sqrt{3}e^{14}, \frac{2}{391}\sqrt{42}e^{34},$ $\frac{3}{391}\sqrt{102}e^{15} + \frac{30}{391}e^{23}$	$(-\frac{3}{391}, \frac{19}{391}, -\frac{6}{391}, -\frac{6}{391}, \frac{16}{391}, -\frac{9}{391}, -\frac{9}{391}, -\frac{12}{391}, \frac{13}{391})$ $+ \frac{15}{391}\sqrt{6}e^3 \otimes e_7 + \frac{30}{391}e^4 \otimes e_6$	{1256789, 1678, 2479, 457}
951:13	$0, 0, 0, 0, \frac{12}{143}\sqrt{5}e^{12}, \frac{1}{143}\sqrt{138}e^{13}, \frac{4}{143}\sqrt{15}e^{14}, \frac{1}{143}\sqrt{858}e^{34},$ $\frac{12}{143}\sqrt{5}e^{15} + \frac{6}{143}\sqrt{21}e^{23}$	$(-\frac{3}{143}, \frac{17}{143}, -\frac{6}{143}, -\frac{3}{143}, \frac{14}{143}, -\frac{9}{143}, -\frac{6}{143}, -\frac{9}{143}, \frac{13}{143})$ $- \frac{3}{143}\sqrt{46}e^4 \otimes e_6 + \frac{9}{143}\sqrt{14}e^1 \otimes e_8$	{123479, 13457, 2356789, 3678}
951:13	$0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{6}e^{13}, \frac{1}{25}\sqrt{114}e^{14}, \frac{2}{25}\sqrt{39}e^{34},$ $\frac{6}{25}\sqrt{5}e^{15} + \frac{6}{25}\sqrt{5}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{22}e^1 \otimes e_8 - \frac{6}{25}\sqrt{2}e^3 \otimes e_7$	{1234679, 134567, 235789, 378}
951:13	$0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{6}e^{13}, \frac{1}{25}\sqrt{114}e^{14}, \frac{2}{25}\sqrt{39}e^{34},$ $\frac{6}{25}\sqrt{5}e^{15} + \frac{6}{25}\sqrt{5}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{22}e^1 \otimes e_8 + \frac{6}{25}\sqrt{2}e^3 \otimes e_7$	{1234679, 134567, 235789, 378}
951:13	$0, 0, 0, 0, \frac{14}{155}\sqrt{3}e^{12}, \frac{1}{155}\sqrt{66}e^{13}, \frac{1}{155}\sqrt{906}e^{14}, \frac{1}{155}\sqrt{6}e^{34},$ $\frac{1}{155}\sqrt{330}e^{15} + \frac{1}{155}\sqrt{906}e^{23}$	$(\frac{1}{31}, -\frac{17}{155}, \frac{2}{31}, -\frac{1}{155}, -\frac{12}{155}, \frac{3}{31}, \frac{4}{155}, \frac{9}{155}, -\frac{7}{155})$ $+ \frac{18}{155}\sqrt{3}e^3 \otimes e_7 + \frac{3}{155}\sqrt{86}e^4 \otimes e_9$	{1256789, 457}
951:13	$0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{6}{61}\sqrt{6}e^{13}, \frac{3}{61}\sqrt{66}e^{14}, \frac{3}{61}\sqrt{30}e^{34},$ $\frac{3}{61}\sqrt{30}e^{15} + \frac{18}{61}\sqrt{3}e^{23}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, \frac{18}{61}, \frac{12}{61}, -\frac{3}{61})$ $+ \frac{9}{61}\sqrt{14}e^2 \otimes e_6 + \frac{9}{61}\sqrt{22}e^4 \otimes e_9$	{1279, 4678}
951:13	$0, 0, 0, 0, \frac{12}{143}\sqrt{5}e^{12}, \frac{1}{143}\sqrt{138}e^{13}, \frac{4}{143}\sqrt{15}e^{14}, \frac{1}{143}\sqrt{858}e^{34},$ $\frac{12}{143}\sqrt{5}e^{15} + \frac{6}{143}\sqrt{21}e^{23}$	$(-\frac{3}{143}, \frac{17}{143}, -\frac{6}{143}, -\frac{3}{143}, \frac{14}{143}, -\frac{9}{143}, -\frac{6}{143}, -\frac{9}{143}, \frac{13}{143})$ $+ \frac{3}{143}\sqrt{46}e^4 \otimes e_6 + \frac{9}{143}\sqrt{14}e^1 \otimes e_8$	{123479, 13457, 2356789, 3678}
951:14	$0, 0, 0, 0, \frac{51}{1381}\sqrt{46}e^{12}, \frac{85}{1381}\sqrt{10}e^{13}, \frac{68}{1381}\sqrt{47}e^{24}, \frac{34}{1381}\sqrt{105}e^{34},$ $\frac{17}{1381}\sqrt{254}e^{15} + \frac{170}{1381}\sqrt{5}e^{23}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{34}{1381}\sqrt{313}e^4 \otimes e_9 + \frac{425}{1381}\sqrt{2}e^3 \otimes e_7$	{12345, 1389, 2346, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:14	$0, 0, 0, 0, \frac{51}{1381}\sqrt{46e^{12}}, \frac{85}{1381}\sqrt{10e^{13}}, \frac{68}{1381}\sqrt{47e^{24}}, \frac{34}{1381}\sqrt{105e^{34}},$ $\frac{17}{1381}\sqrt{254e^{15}} + \frac{170}{1381}\sqrt{5e^{23}}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $-\frac{34}{1381}\sqrt{313e^4} \otimes e_9 + \frac{425}{1381}\sqrt{2e^3} \otimes e_7$	{12345, 1389, 2346, 35689}
951:14	$0, 0, 0, 0, \frac{2}{1153}\sqrt{13719e^{12}}, \frac{10}{1153}\sqrt{4035e^{13}}, \frac{3}{1153}\sqrt{38198e^{24}},$ $\frac{1}{1153}\sqrt{572970e^{34}}, \frac{6}{1153}\sqrt{19099e^{15}} + \frac{5}{1153}\sqrt{8070e^{23}}$	$(-\frac{20}{1153}, -\frac{182}{1153}, -\frac{40}{1153}, \frac{585}{1153}, -\frac{202}{1153}, -\frac{60}{1153}, \frac{403}{1153}, \frac{545}{1153}, -\frac{222}{1153})$ $+\frac{3}{1153}\sqrt{172698e^4} \otimes e_9$	{1279, 14578, 25679, 4678}
951:14	$0, 0, 0, 0, \frac{4}{23}\sqrt{2e^{12}}, \frac{4}{23}\sqrt{2e^{13}}, \frac{2}{23}\sqrt{22e^{24}}, \frac{2}{23}\sqrt{22e^{34}},$ $\frac{2}{23}\sqrt{2e^{15}} + \frac{4}{23}e^{23}$	$(-\frac{2}{23}, \frac{6}{23}, -\frac{4}{23}, \frac{2}{23}, \frac{4}{23}, -\frac{6}{23}, \frac{8}{23}, -\frac{2}{23}, \frac{2}{23})$ $+\frac{2}{23}\sqrt{42e^4} \otimes e_6 + \frac{4}{23}\sqrt{10e^2} \otimes e_8$	{12349, 368}
951:14	$0, 0, 0, 0, \frac{324}{1597}e^{12}, \frac{90}{1597}\sqrt{6e^{13}}, \frac{9}{1597}\sqrt{2982e^{24}}, \frac{9}{1597}\sqrt{870e^{34}},$ $\frac{36}{1597}\sqrt{219e^{15}} + \frac{27}{1597}\sqrt{170e^{23}}$	$(\frac{90}{1597}, -\frac{288}{1597}, \frac{180}{1597}, \frac{135}{1597}, -\frac{198}{1597}, \frac{270}{1597}, -\frac{153}{1597}, \frac{315}{1597}, -\frac{108}{1597})$ $+\frac{18}{1597}\sqrt{1230e^1} \otimes e_7 + \frac{9}{1597}\sqrt{3642e^4} \otimes e_9$	{2356789, 3467}
951:14	$0, 0, 0, 0, \frac{4}{1087}\sqrt{795e^{12}}, \frac{1}{1087}\sqrt{694830e^{13}}, \frac{18}{1087}\sqrt{1855e^{24}},$ $\frac{3}{1087}\sqrt{53530e^{34}}, \frac{3}{1087}\sqrt{31270e^{15}} + \frac{4}{1087}\sqrt{24645e^{23}}$	$(-\frac{114}{1087}, \frac{453}{1087}, -\frac{228}{1087}, \frac{79}{1087}, \frac{339}{1087}, -\frac{342}{1087}, \frac{532}{1087}, -\frac{149}{1087}, \frac{225}{1087})$ $+\frac{3}{1087}\sqrt{164830e^2} \otimes e_6$	{12348, 1237, 346789, 369}
951:14	$0, 0, 0, 0, \frac{2}{137}\sqrt{1122e^{12}}, \frac{2}{137}\sqrt{2958e^{13}}, \frac{6}{137}\sqrt{323e^{24}}, \frac{34}{137}\sqrt{3e^{34}},$ $\frac{6}{137}\sqrt{17e^{15}} + \frac{2}{137}\sqrt{1479e^{23}}$	$(-\frac{13}{137}, \frac{14}{137}, -\frac{26}{137}, \frac{63}{137}, \frac{1}{137}, \frac{39}{137}, \frac{77}{137}, \frac{37}{137}, -\frac{12}{137})$ $+\frac{6}{137}\sqrt{663e^4} \otimes e_6$	{123459, 1347, 236789, 3568}
951:14	$0, 0, 0, 0, \frac{2}{383}\sqrt{20217e^{12}}, \frac{10}{383}\sqrt{586e^{13}}, \frac{1}{383}\sqrt{11134e^{24}},$ $\frac{2}{383}\sqrt{20217e^{34}}, \frac{2}{383}\sqrt{5567e^{15}} + \frac{10}{383}\sqrt{293e^{23}}$	$(-\frac{12}{383}, \frac{176}{383}, -\frac{24}{383}, -\frac{93}{383}, \frac{164}{383}, -\frac{36}{383}, \frac{83}{383}, -\frac{117}{383}, \frac{152}{383})$ $+\frac{1}{383}\sqrt{186934e^2} \otimes e_8$	{1279, 14578, 25679, 4678}
951:14	$0, 0, 0, 0, \frac{2}{2273}\sqrt{268842e^{12}}, \frac{2}{2273}\sqrt{322818e^{13}}, \frac{6}{2273}\sqrt{51554e^{24}},$ $\frac{2}{2273}\sqrt{67470e^{34}}, \frac{24}{2273}\sqrt{2941e^{15}} + \frac{2}{2273}\sqrt{413643e^{23}}$	$(\frac{317}{2273}, -\frac{286}{2273}, \frac{634}{2273}, -\frac{435}{2273}, \frac{31}{2273}, \frac{951}{2273}, -\frac{721}{2273}, \frac{199}{2273}, \frac{348}{2273})$ $+\frac{108}{2273}\sqrt{346e^1} \otimes e_7$	{123489, 135, 235679, 34678}
951:14	$0, 0, 0, 0, \frac{38}{1291}\sqrt{13e^{12}}, \frac{190}{1291}\sqrt{2e^{13}}, \frac{19}{1291}\sqrt{526e^{24}}, \frac{38}{1291}\sqrt{113e^{34}},$ $\frac{38}{1291}\sqrt{37e^{15}} + \frac{190}{1291}\sqrt{5e^{23}}$	$(\frac{76}{1291}, \frac{152}{1291}, \frac{152}{1291}, -\frac{361}{1291}, \frac{228}{1291}, \frac{228}{1291}, -\frac{209}{1291}, -\frac{209}{1291}, \frac{304}{1291})$ $+\frac{19}{1291}\sqrt{1126e^2} \otimes e_8 - \frac{380}{1291}\sqrt{3e^3} \otimes e_7$	{1234, 13589, 23456, 3689}
951:14	$0, 0, 0, 0, \frac{38}{1291}\sqrt{13e^{12}}, \frac{190}{1291}\sqrt{2e^{13}}, \frac{19}{1291}\sqrt{526e^{24}}, \frac{38}{1291}\sqrt{113e^{34}},$ $\frac{38}{1291}\sqrt{37e^{15}} + \frac{190}{1291}\sqrt{5e^{23}}$	$(\frac{76}{1291}, \frac{152}{1291}, \frac{152}{1291}, -\frac{361}{1291}, \frac{228}{1291}, \frac{228}{1291}, -\frac{209}{1291}, -\frac{209}{1291}, \frac{304}{1291})$ $+\frac{19}{1291}\sqrt{1126e^2} \otimes e_8 + \frac{380}{1291}\sqrt{3e^3} \otimes e_7$	{1234, 13589, 23456, 3689}
951:14	$0, 0, 0, 0, \frac{20}{663}\sqrt{23e^{12}}, \frac{16}{663}\sqrt{10e^{13}}, \frac{44}{663}\sqrt{10e^{24}}, \frac{20}{663}\sqrt{23e^{34}},$ $\frac{4}{663}\sqrt{690e^{15}} + \frac{4}{663}\sqrt{835e^{23}}$	$(\frac{2}{221}, \frac{58}{663}, \frac{4}{221}, -\frac{86}{663}, \frac{64}{663}, \frac{6}{221}, -\frac{28}{663}, -\frac{74}{663}, \frac{70}{663})$ $+\frac{4}{663}\sqrt{1555e^2} \otimes e_6 + \frac{4}{663}\sqrt{1555e^3} \otimes e_7$	{1467, 2789}
951:14	$0, 0, 0, 0, \frac{3}{1087}\sqrt{53530e^{12}}, \frac{1}{1087}\sqrt{694830e^{13}}, \frac{18}{1087}\sqrt{1855e^{24}},$ $\frac{4}{1087}\sqrt{795e^{34}}, \frac{3}{1087}\sqrt{31270e^{15}} + \frac{4}{1087}\sqrt{24645e^{23}}$	$(\frac{197}{1087}, -\frac{169}{1087}, \frac{394}{1087}, -\frac{232}{1087}, \frac{28}{1087}, \frac{591}{1087}, -\frac{401}{1087}, \frac{162}{1087}, \frac{225}{1087})$ $+\frac{3}{1087}\sqrt{164830e^3} \otimes e_7$	{125679, 14678, 279, 4578}
951:14	$0, 0, 0, 0, \frac{2}{47}\sqrt{130e^{12}}, \frac{2}{47}\sqrt{15e^{13}}, \frac{6}{47}\sqrt{5e^{24}}, \frac{2}{47}\sqrt{130e^{34}},$ $\frac{2}{47}\sqrt{115e^{15}} + \frac{2}{47}\sqrt{95e^{23}}$	$(\frac{1}{47}, \frac{8}{47}, \frac{2}{47}, -\frac{11}{47}, \frac{9}{47}, \frac{3}{47}, -\frac{3}{47}, -\frac{9}{47}, \frac{10}{47})$ $+\frac{2}{47}\sqrt{205e^1} \otimes e_8$	{1234679, 13456, 23589, 378}
951:14	$0, 0, 0, 0, \frac{2}{249}\sqrt{30e^{12}}, \frac{2}{83}\sqrt{30e^{13}}, \frac{2}{83}\sqrt{35e^{24}}, \frac{2}{249}\sqrt{3e^{34}},$ $\frac{2}{83}\sqrt{15e^{15}} + \frac{2}{249}\sqrt{231e^{23}}$	$(\frac{1}{83}, -\frac{6}{83}, \frac{2}{83}, \frac{5}{83}, -\frac{5}{83}, \frac{3}{83}, -\frac{1}{83}, \frac{7}{83}, -\frac{4}{83})$ $+\frac{16}{249}\sqrt{6e^1} \otimes e_7 + \frac{2}{249}\sqrt{303e^4} \otimes e_6$	{12349, 2356789}
951:14	$0, 0, 0, 0, \frac{6}{293}\sqrt{6e^{12}}, \frac{5}{293}\sqrt{3e^{13}}, \frac{1}{293}\sqrt{39e^{24}}, \frac{1}{293}\sqrt{278e^{34}},$ $\frac{1}{293}\sqrt{265e^{15}} + \frac{1}{293}\sqrt{134e^{23}}$	$(-\frac{3}{293}, \frac{7}{293}, -\frac{6}{293}, \frac{2}{293}, \frac{4}{293}, -\frac{9}{293}, \frac{9}{293}, -\frac{4}{293}, \frac{1}{293})$ $+\frac{1}{293}\sqrt{186e^4} \otimes e_9 + \frac{7}{293}\sqrt{7e^1} \otimes e_8$	{13456, 23589}
951:14	$0, 0, 0, 0, \frac{17}{5619}\sqrt{1358e^{12}}, \frac{34}{5619}\sqrt{983e^{13}}, \frac{34}{5619}\sqrt{1091e^{24}},$ $\frac{68}{5619}\sqrt{130e^{34}}, \frac{204}{1873}e^{15} + \frac{34}{5619}\sqrt{283e^{23}}$	$(\frac{17}{1873}, \frac{442}{5619}, \frac{34}{1873}, -\frac{680}{5619}, \frac{493}{5619}, \frac{51}{1873}, -\frac{238}{5619}, -\frac{578}{5619}, \frac{544}{5619})$ $+\frac{34}{5619}\sqrt{1441e^1} \otimes e_7 + \frac{85}{5619}\sqrt{182e^2} \otimes e_6$	{123489, 34678}
951:14	$0, 0, 0, 0, \frac{56}{869}\sqrt{10e^{12}}, \frac{14}{869}\sqrt{229e^{13}}, \frac{140}{869}e^{24}, \frac{7}{869}\sqrt{1178e^{34}},$ $\frac{140}{869}\sqrt{2e^{15}} + \frac{7}{869}\sqrt{458e^{23}}$	$(-\frac{49}{869}, \frac{91}{869}, -\frac{98}{869}, \frac{91}{869}, \frac{42}{869}, -\frac{147}{869}, \frac{182}{869}, -\frac{7}{869}, -\frac{7}{869})$ $+\frac{7}{869}\sqrt{1534e^2} \otimes e_8 + \frac{7}{869}\sqrt{1614e^4} \otimes e_9$	{1279, 14578, 25679, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:14	$0, 0, 0, 0, \frac{56}{869}\sqrt{10}e^{12}, \frac{14}{869}\sqrt{229}e^{13}, \frac{140}{869}e^{24}, \frac{7}{869}\sqrt{1178}e^{34},$ $\frac{140}{869}\sqrt{2}e^{15} + \frac{7}{869}\sqrt{458}e^{23}$	$(-\frac{49}{869}, \frac{91}{869}, -\frac{98}{869}, \frac{91}{869}, \frac{42}{869}, -\frac{147}{869}, \frac{182}{869}, -\frac{7}{869}, -\frac{7}{869})$ $+\frac{7}{869}\sqrt{1534}e^2 \otimes e_8 - \frac{7}{869}\sqrt{1614}e^4 \otimes e_9$	{1279, 14578, 25679, 4678}
951:14	$0, 0, 0, 0, \frac{76}{2101}\sqrt{3}e^{12}, \frac{38}{2101}\sqrt{185}e^{13}, \frac{342}{2101}\sqrt{7}e^{24}, \frac{152}{2101}e^{34},$ $\frac{38}{2101}\sqrt{205}e^{15} + \frac{76}{2101}\sqrt{93}e^{23}$	$(-\frac{171}{2101}, \frac{19}{191}, -\frac{342}{2101}, \frac{589}{2101}, \frac{38}{2101}, -\frac{513}{2101}, \frac{798}{2101}, \frac{247}{2101}, -\frac{133}{2101})$ $+\frac{38}{2101}\sqrt{929}e^2 \otimes e_6 + \frac{38}{2101}\sqrt{941}e^4 \otimes e_9$	{145678, 2579}
951:14	$0, 0, 0, 0, \frac{62}{4339}\sqrt{611}e^{12}, \frac{496}{4339}\sqrt{2}e^{13}, \frac{217}{4339}\sqrt{46}e^{24},$ $\frac{62}{4339}\sqrt{223}e^{34}, \frac{62}{4339}\sqrt{545}e^{15} + \frac{62}{4339}\sqrt{355}e^{23}$	$(\frac{248}{4339}, \frac{372}{4339}, \frac{496}{4339}, -\frac{1085}{4339}, \frac{620}{4339}, \frac{744}{4339}, -\frac{713}{4339}, -\frac{589}{4339}, \frac{868}{4339})$ $+\frac{124}{4339}\sqrt{291}e^1 \otimes e_7 + \frac{31}{4339}\sqrt{3046}e^2 \otimes e_8$	{12349, 1358}
951:14	$0, 0, 0, 0, \frac{16}{867}\sqrt{58}e^{12}, \frac{16}{867}\sqrt{97}e^{13}, \frac{4}{867}\sqrt{1398}e^{24}, \frac{4}{867}\sqrt{158}e^{34},$ $\frac{4}{867}\sqrt{462}e^{15} + \frac{8}{867}\sqrt{11}e^{23}$	$(\frac{4}{289}, -\frac{76}{867}, \frac{8}{289}, \frac{4}{51}, -\frac{64}{867}, \frac{12}{289}, -\frac{8}{867}, \frac{92}{867}, -\frac{52}{867})$ $+\frac{4}{867}\sqrt{1618}e^4 \otimes e_6 + \frac{8}{867}\sqrt{410}e^3 \otimes e_7$	{125679, 4578}
951:15	$0, 0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{3}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{15}e^{14} - \frac{3}{7}e^{23},$ $\frac{1}{7}\sqrt{15}e^{13} + \frac{3}{7}e^{24}, \frac{2}{7}\sqrt{3}e^{15}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0, \frac{3}{7})$ $+\frac{6}{7}e^2 \otimes e_6$	{23459, 25789, 367, 23459, 25789, 367}
951:15	$0, 0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{3}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{15}e^{14} + \frac{3}{7}e^{23},$ $\frac{1}{7}\sqrt{15}e^{13} + \frac{3}{7}e^{24}, \frac{2}{7}\sqrt{3}e^{15}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0, \frac{3}{7})$ $+\frac{6}{7}e^2 \otimes e_6$	{23459, 25789, 367, 23459, 25789, 367}
951:15	$0, 0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{3}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{3}e^{14} - \frac{3}{7}e^{23},$ $\frac{1}{7}\sqrt{3}e^{13} + \frac{3}{7}e^{24}, \frac{2}{7}\sqrt{3}e^{15}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0, \frac{3}{7})$ $+\frac{6}{7}e^1 \otimes e_6$	{1345, 1578, 368, 1345, 1578, 368}
951:15	$0, 0, 0, 0, \frac{3}{7}\sqrt{2}e^{12}, \frac{3}{7}\sqrt{2}e^{34}, \frac{1}{7}\sqrt{3}e^{14} + \frac{3}{7}e^{23},$ $\frac{1}{7}\sqrt{3}e^{13} + \frac{3}{7}e^{24}, \frac{2}{7}\sqrt{3}e^{15}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0, \frac{3}{7})$ $+\frac{6}{7}e^1 \otimes e_6$	{1345, 1578, 368, 1345, 1578, 368}
951:15	$0, 0, 0, 0, \frac{27}{1337}\sqrt{142}e^{12}, \frac{27}{1337}\sqrt{902}e^{34},$ $\frac{297}{1337}\sqrt{7}e^{14} - \frac{27}{1337}\sqrt{831}e^{23}, \frac{27}{1337}\sqrt{293}e^{13} + \frac{27}{1337}\sqrt{309}e^{24}, \frac{54}{1337}\sqrt{269}e^{15}$	$(-\frac{135}{1337}, -\frac{135}{1337}, \frac{324}{1337}, \frac{324}{1337}, -\frac{270}{1337}, \frac{648}{1337}, \frac{27}{191}, \frac{27}{191}, -\frac{405}{1337})$ $+\frac{54}{1337}\sqrt{570}e^3 \otimes e_9$	{1246789, 13457, 2579, 3678, 1246789, 13457, 2579, 3678}
951:15	$0, 0, 0, 0, \frac{27}{1337}\sqrt{142}e^{12}, \frac{27}{1337}\sqrt{902}e^{34},$ $\frac{297}{1337}\sqrt{7}e^{14} + \frac{27}{1337}\sqrt{831}e^{23}, \frac{27}{1337}\sqrt{293}e^{13} + \frac{27}{1337}\sqrt{309}e^{24}, \frac{54}{1337}\sqrt{269}e^{15}$	$(-\frac{135}{1337}, -\frac{135}{1337}, \frac{324}{1337}, \frac{324}{1337}, -\frac{270}{1337}, \frac{648}{1337}, \frac{27}{191}, \frac{27}{191}, -\frac{405}{1337})$ $+\frac{54}{1337}\sqrt{570}e^3 \otimes e_9$	{1246789, 13457, 2579, 3678, 1246789, 13457, 2579, 3678}
951:16	$0, 0, 0, 0, \frac{4}{25}\sqrt{3}e^{12}, \frac{1}{25}\sqrt{86}e^{13}, \frac{3}{25}\sqrt{2}e^{23}, \frac{2}{25}\sqrt{15}e^{14},$ $\frac{4}{25}\sqrt{5}e^{15} + \frac{4}{25}\sqrt{7}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $+\frac{1}{25}\sqrt{154}e^4 \otimes e_6 + \frac{1}{25}\sqrt{78}e^2 \otimes e_8$	{1678, 23679}
951:16	$0, 0, 0, 0, \frac{22}{5019}\sqrt{101}e^{12}, \frac{11}{5019}\sqrt{34}e^{13}, \frac{22}{5019}\sqrt{1065}e^{23},$ $\frac{22}{5019}\sqrt{913}e^{14}, \frac{44}{5019}\sqrt{114}e^{15} + \frac{22}{5019}\sqrt{778}e^{24}$	$(\frac{22}{1673}, -\frac{374}{5019}, \frac{319}{5019}, \frac{44}{1673}, -\frac{44}{717}, \frac{55}{717}, -\frac{55}{5019}, \frac{66}{1673}, -\frac{242}{5019})$ $+\frac{11}{5019}\sqrt{5174}e^1 \otimes e_7 + \frac{22}{5019}\sqrt{1015}e^3 \otimes e_8$	{123469, 2456789}
951:16	$0, 0, 0, 0, \frac{2}{393}\sqrt{870}e^{12}, \frac{4}{393}\sqrt{30}e^{13}, \frac{1}{131}\sqrt{530}e^{23}, \frac{10}{131}\sqrt{6}e^{14},$ $\frac{1}{131}\sqrt{210}e^{15} + \frac{4}{393}\sqrt{30}e^{24}$	$(\frac{2}{131}, -\frac{12}{131}, \frac{11}{131}, \frac{4}{131}, -\frac{10}{131}, \frac{13}{131}, -\frac{1}{131}, \frac{6}{131}, -\frac{8}{131})$ $+\frac{5}{393}\sqrt{222}e^3 \otimes e_8 + \frac{4}{393}\sqrt{222}e^4 \otimes e_7$	{1256789, 3567}
951:16	$0, 0, 0, 0, \frac{2}{31}\sqrt{7}e^{12}, \frac{3}{31}\sqrt{2}e^{13}, \frac{10}{31}e^{23}, \frac{2}{31}\sqrt{7}e^{14},$ $\frac{10}{31}e^{15} + \frac{6}{31}e^{24}$	$(\frac{2}{31}, -\frac{6}{31}, \frac{3}{31}, \frac{4}{31}, -\frac{4}{31}, \frac{5}{31}, -\frac{3}{31}, \frac{6}{31}, -\frac{2}{31})$ $+\frac{2}{31}\sqrt{29}e^3 \otimes e_9 + \frac{9}{31}\sqrt{2}e^1 \otimes e_7$	{245789, 34678}
951:16	$0, 0, 0, 0, \frac{148}{4061}\sqrt{11}e^{12}, \frac{37}{4061}\sqrt{590}e^{13}, \frac{74}{4061}\sqrt{499}e^{23},$ $\frac{37}{4061}\sqrt{502}e^{14}, \frac{296}{4061}\sqrt{10}e^{15} + \frac{74}{4061}\sqrt{430}e^{24}$	$(-\frac{333}{4061}, \frac{370}{4061}, \frac{1073}{4061}, -\frac{666}{4061}, \frac{37}{4061}, \frac{740}{4061}, \frac{1443}{4061}, -\frac{999}{4061}, -\frac{296}{4061})$ $+\frac{37}{4061}\sqrt{3390}e^2 \otimes e_8 + \frac{37}{4061}\sqrt{3842}e^3 \otimes e_9$	{12345, 4589}
951:16	$0, 0, 0, 0, \frac{2}{47}\sqrt{105}e^{12}, \frac{1}{47}\sqrt{1330}e^{13}, \frac{1}{47}\sqrt{70}e^{23}, \frac{10}{47}\sqrt{7}e^{14},$ $\frac{7}{47}\sqrt{10}e^{15} + \frac{1}{47}\sqrt{1330}e^{24}$	$(-\frac{1}{47}, \frac{21}{47}, -\frac{13}{47}, -\frac{2}{47}, \frac{20}{47}, -\frac{14}{47}, \frac{8}{47}, -\frac{3}{47}, \frac{19}{47})$ $+\frac{20}{47}\sqrt{7}e^2 \otimes e_6$	{12348, 145689, 2457, 34679}
951:16	$0, 0, 0, 0, \frac{14}{815}\sqrt{165}e^{12}, \frac{14}{815}\sqrt{310}e^{13}, \frac{91}{815}\sqrt{10}e^{23}, \frac{14}{815}\sqrt{230}e^{14},$ $\frac{14}{163}\sqrt{13}e^{15} + \frac{70}{163}e^{24}$	$(\frac{56}{815}, \frac{84}{815}, -\frac{217}{815}, \frac{112}{815}, \frac{28}{163}, -\frac{161}{815}, -\frac{133}{815}, \frac{168}{815}, \frac{196}{815})$ $+\frac{133}{815}\sqrt{10}e^2 \otimes e_6 + \frac{42}{815}\sqrt{105}e^4 \otimes e_7$	{279, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:16	$0, 0, 0, 0, \frac{2}{2021}\sqrt{267915}e^{12}, \frac{6}{2021}\sqrt{40015}e^{13}, \frac{90}{2021}\sqrt{265}e^{23},$ $\frac{52}{2021}\sqrt{795}e^{14}, \frac{6}{2021}\sqrt{265}e^{15} + \frac{8}{2021}\sqrt{5565}e^{24}$	$(-\frac{231}{2021}, \frac{897}{2021}, \frac{104}{2021}, -\frac{462}{2021}, \frac{666}{2021}, -\frac{127}{2021}, \frac{1001}{2021}, -\frac{693}{2021}, \frac{435}{2021})$ $+ \frac{30}{2021}\sqrt{5989}e^2 \otimes e_8$	{12346, 1247, 34789, 4689}
951:16	$0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{3}{7}\sqrt{2}e^{23}, \frac{2}{7}\sqrt{3}e^{14},$ $\frac{3}{7}\sqrt{2}e^{15} + \frac{3}{7}\sqrt{2}e^{24}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, 0, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7})$ $+ \frac{9}{7}e^1 \otimes e_7$	{123469, 145, 2456789, 3478}
951:16	$0, 0, 0, 0, \frac{46}{133}\sqrt{2}e^{12}, \frac{6}{133}\sqrt{230}e^{13}, \frac{4}{133}\sqrt{253}e^{23}, \frac{46}{133}\sqrt{2}e^{14},$ $\frac{4}{133}\sqrt{253}e^{15} + \frac{6}{133}\sqrt{230}e^{24}$	$(-\frac{1}{133}, -\frac{24}{133}, \frac{66}{133}, -\frac{2}{133}, -\frac{25}{133}, \frac{65}{133}, \frac{6}{19}, -\frac{3}{133}, -\frac{26}{133})$ $+ \frac{2}{133}\sqrt{5198}e^3 \otimes e_9$	{123458, 14689, 2346, 459}
951:16	$0, 0, 0, 0, \frac{2}{1931}\sqrt{342930}e^{12}, \frac{2}{1931}\sqrt{133170}e^{13}, \frac{6}{1931}\sqrt{57730}e^{23},$ $\frac{10}{1931}\sqrt{23046}e^{14}, \frac{12}{1931}\sqrt{4715}e^{15} + \frac{4}{1931}\sqrt{62445}e^{24}$	$(\frac{367}{1931}, -\frac{352}{1931}, -\frac{294}{1931}, \frac{734}{1931}, \frac{15}{1931}, \frac{73}{1931}, -\frac{646}{1931}, \frac{1101}{1931}, \frac{382}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^4 \otimes e_7$	{125789, 13678, 2679, 357}
951:16	$0, 0, 0, 0, \frac{2}{157}\sqrt{74}e^{12}, \frac{1}{157}\sqrt{510}e^{13}, \frac{2}{157}\sqrt{26}e^{23}, \frac{1}{157}\sqrt{22}e^{14},$ $\frac{1}{157}\sqrt{210}e^{15} + \frac{1}{157}\sqrt{510}e^{24}$	$(\frac{4}{157}, -\frac{10}{157}, \frac{1}{157}, \frac{8}{157}, -\frac{6}{157}, \frac{5}{157}, -\frac{9}{157}, \frac{12}{157}, -\frac{2}{157})$ $+ \frac{1}{157}\sqrt{362}e^3 \otimes e_9 + \frac{1}{157}\sqrt{530}e^4 \otimes e_6$	{125689, 356}
951:16	$0, 0, 0, 0, \frac{2}{263}\sqrt{186}e^{12}, \frac{10}{263}\sqrt{10}e^{13}, \frac{2}{263}\sqrt{6}e^{23}, \frac{4}{263}\sqrt{39}e^{14},$ $\frac{4}{263}\sqrt{47}e^{15} + \frac{2}{263}\sqrt{182}e^{24}$	$(-\frac{4}{263}, \frac{17}{263}, -\frac{8}{263}, -\frac{8}{263}, \frac{13}{263}, -\frac{12}{263}, \frac{9}{263}, -\frac{12}{263}, \frac{9}{263})$ $- \frac{2}{263}\sqrt{298}e^4 \otimes e_6 + \frac{4}{263}\sqrt{51}e^3 \otimes e_8$	{125689, 1678, 23679, 356}
951:16	$0, 0, 0, 0, \frac{26}{491}\sqrt{33}e^{12}, \frac{13}{491}\sqrt{354}e^{13}, \frac{26}{491}\sqrt{6}e^{23}, \frac{78}{491}\sqrt{6}e^{14},$ $\frac{26}{491}\sqrt{35}e^{15} + \frac{78}{491}\sqrt{7}e^{24}$	$(\frac{52}{491}, 0, -\frac{117}{491}, \frac{104}{491}, \frac{52}{491}, -\frac{65}{491}, -\frac{117}{491}, \frac{156}{491}, \frac{104}{491})$ $+ \frac{26}{491}\sqrt{145}e^4 \otimes e_6 + \frac{39}{491}\sqrt{34}e^1 \otimes e_7$	{125689, 23679}
951:16	$0, 0, 0, 0, \frac{14}{1993}\sqrt{123}e^{12}, \frac{14}{1993}\sqrt{1185}e^{13}, \frac{21}{1993}\sqrt{110}e^{23},$ $\frac{42}{1993}\sqrt{74}e^{14}, \frac{28}{1993}\sqrt{6}e^{15} + \frac{14}{1993}\sqrt{1185}e^{24}$	$(-\frac{98}{1993}, \frac{182}{1993}, \frac{133}{1993}, -\frac{196}{1993}, \frac{84}{1993}, \frac{35}{1993}, \frac{315}{1993}, -\frac{294}{1993}, -\frac{14}{1993})$ $+ \frac{14}{1993}\sqrt{1407}e^3 \otimes e_9 + \frac{7}{1993}\sqrt{5430}e^2 \otimes e_6$	{2789, 35678}
951:16	$0, 0, 0, 0, \frac{76}{6321}\sqrt{55}e^{12}, \frac{19}{6321}\sqrt{2314}e^{13}, \frac{19}{6321}\sqrt{4742}e^{23},$ $\frac{19}{6321}\sqrt{5138}e^{14}, \frac{38}{2107}\sqrt{33}e^{15} + \frac{19}{6321}\sqrt{1610}e^{24}$	$(\frac{19}{2107}, \frac{76}{903}, -\frac{779}{6321}, \frac{38}{2107}, \frac{589}{6321}, -\frac{722}{6321}, -\frac{247}{6321}, \frac{57}{6321}, \frac{646}{6321})$ $+ \frac{19}{6321}\sqrt{5666}e^2 \otimes e_8 + \frac{19}{6321}\sqrt{6106}e^4 \otimes e_7$	{13678, 2679}
951:16	$0, 0, 0, 0, \frac{2}{593}\sqrt{24090}e^{12}, \frac{2}{593}\sqrt{41910}e^{13}, \frac{110}{593}\sqrt{6}e^{23}, \frac{12}{593}\sqrt{330}e^{14},$ $\frac{4}{593}\sqrt{7535}e^{15} + \frac{2}{593}\sqrt{41910}e^{24}$	$(\frac{52}{593}, \frac{51}{593}, -\frac{168}{593}, \frac{104}{593}, \frac{103}{593}, -\frac{116}{593}, -\frac{117}{593}, \frac{156}{593}, \frac{155}{593})$ $+ \frac{10}{593}\sqrt{2398}e^4 \otimes e_6$	{125689, 1678, 23679, 356}
951:16	$0, 0, 0, 0, \frac{8}{281}\sqrt{134}e^{12}, \frac{8}{281}\sqrt{70}e^{13}, \frac{8}{281}\sqrt{157}e^{23}, \frac{8}{281}\sqrt{70}e^{14},$ $\frac{16}{281}e^{15} + \frac{8}{281}\sqrt{155}e^{24}$	$(\frac{20}{281}, -\frac{64}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{44}{281}, \frac{60}{281}, -\frac{24}{281}, \frac{60}{281}, -\frac{24}{281})$ $- \frac{8}{281}\sqrt{255}e^4 \otimes e_7 + \frac{8}{281}\sqrt{257}e^3 \otimes e_9$	{12345, 1469, 23468, 4589}
951:16	$0, 0, 0, 0, \frac{8}{281}\sqrt{134}e^{12}, \frac{8}{281}\sqrt{70}e^{13}, \frac{8}{281}\sqrt{157}e^{23}, \frac{8}{281}\sqrt{70}e^{14},$ $\frac{16}{281}e^{15} + \frac{8}{281}\sqrt{155}e^{24}$	$(\frac{20}{281}, -\frac{64}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{44}{281}, \frac{60}{281}, -\frac{24}{281}, \frac{60}{281}, -\frac{24}{281})$ $+ \frac{8}{281}\sqrt{255}e^4 \otimes e_7 + \frac{8}{281}\sqrt{257}e^3 \otimes e_9$	{12345, 1469, 23468, 4589}
951:16	$0, 0, 0, 0, \frac{16}{889}\sqrt{643}e^{12}, \frac{16}{2667}\sqrt{521}e^{13}, \frac{16}{2667}\sqrt{1066}e^{23},$ $\frac{16}{889}\sqrt{94}e^{14}, \frac{32}{2667}\sqrt{165}e^{15} + \frac{16}{2667}\sqrt{653}e^{24}$	$(\frac{8}{889}, \frac{200}{2667}, -\frac{304}{2667}, \frac{16}{889}, \frac{32}{381}, -\frac{40}{381}, -\frac{104}{2667}, \frac{24}{889}, \frac{248}{2667})$ $+ \frac{16}{2667}\sqrt{1015}e^2 \otimes e_8 + \frac{16}{2667}\sqrt{1411}e^1 \otimes e_7$	{123469, 3478}
951:16	$0, 0, 0, 0, \frac{2}{1931}\sqrt{342930}e^{12}, \frac{4}{1931}\sqrt{62445}e^{13}, \frac{6}{1931}\sqrt{57730}e^{23},$ $\frac{10}{1931}\sqrt{23046}e^{14}, \frac{12}{1931}\sqrt{4715}e^{15} + \frac{4}{1931}\sqrt{133170}e^{24}$	$(-\frac{188}{1931}, \frac{203}{1931}, \frac{816}{1931}, -\frac{376}{1931}, \frac{15}{1931}, \frac{628}{1931}, \frac{1019}{1931}, -\frac{564}{1931}, -\frac{173}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^3 \otimes e_8$	{123459, 1347, 24789, 458}
951:16	$0, 0, 0, 0, \frac{2}{263}\sqrt{186}e^{12}, \frac{10}{263}\sqrt{10}e^{13}, \frac{2}{263}\sqrt{6}e^{23}, \frac{4}{263}\sqrt{39}e^{14},$ $\frac{4}{263}\sqrt{47}e^{15} + \frac{2}{263}\sqrt{182}e^{24}$	$(-\frac{4}{263}, \frac{17}{263}, -\frac{8}{263}, -\frac{8}{263}, \frac{13}{263}, -\frac{12}{263}, \frac{9}{263}, -\frac{12}{263}, \frac{9}{263})$ $+ \frac{2}{263}\sqrt{298}e^4 \otimes e_6 + \frac{4}{263}\sqrt{51}e^3 \otimes e_8$	{125689, 1678, 23679, 356}
951:16	$0, 0, 0, 0, \frac{28}{211}\sqrt{6}e^{12}, \frac{7}{211}\sqrt{29}e^{13}, \frac{7}{211}\sqrt{115}e^{23}, \frac{7}{211}\sqrt{38}e^{14},$ $\frac{7}{211}\sqrt{86}e^{15} + \frac{28}{211}\sqrt{3}e^{24}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $- \frac{7}{211}\sqrt{145}e^2 \otimes e_6 + \frac{7}{211}\sqrt{231}e^1 \otimes e_7$	{12349, 1456, 245789, 34678}
951:16	$0, 0, 0, 0, \frac{28}{211}\sqrt{6}e^{12}, \frac{7}{211}\sqrt{29}e^{13}, \frac{7}{211}\sqrt{115}e^{23}, \frac{7}{211}\sqrt{38}e^{14},$ $\frac{7}{211}\sqrt{86}e^{15} + \frac{28}{211}\sqrt{3}e^{24}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, \frac{28}{211}, -\frac{35}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{7}{211}\sqrt{145}e^2 \otimes e_6 + \frac{7}{211}\sqrt{231}e^1 \otimes e_7$	{12349, 1456, 245789, 34678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:16	$0, 0, 0, 0, \frac{14}{815} \sqrt{165}e^{12}, \frac{70}{163}e^{13}, \frac{91}{815} \sqrt{10}e^{23}, \frac{14}{815} \sqrt{230}e^{14},$ $\frac{14}{163} \sqrt{13}e^{15} + \frac{14}{815} \sqrt{310}e^{24}$	$(-\frac{14}{163}, \frac{42}{163}, \frac{7}{163}, -\frac{28}{163}, \frac{28}{163}, -\frac{7}{163}, \frac{49}{163}, -\frac{42}{163}, \frac{14}{163})$ $+ \frac{133}{815} \sqrt{10}e^2 \otimes e_6 + \frac{42}{815} \sqrt{105}e^3 \otimes e_8$	{168, 3567}
951:17	$0, 0, 0, 0, \frac{28}{603} \sqrt{62}e^{12}, \frac{56}{201} \sqrt{6}e^{13}, \frac{14}{603} \sqrt{934}e^{24},$ $\frac{28}{603} \sqrt{158}e^{14} + \frac{14}{603} \sqrt{502}e^{23}, \frac{14}{603} \sqrt{210}e^{15} + \frac{28}{603} \sqrt{127}e^{34}$	$(-\frac{28}{201}, \frac{182}{603}, -\frac{14}{67}, \frac{140}{603}, \frac{98}{603}, -\frac{70}{201}, \frac{322}{603}, \frac{56}{603}, \frac{14}{603})$ $+ \frac{98}{603} \sqrt{42}e^2 \otimes e_6$	{25789, 368}
951:17	$0, 0, 0, 0, \frac{196}{4509} \sqrt{127}e^{12}, \frac{49}{1503} \sqrt{454}e^{13}, \frac{98}{4509} \sqrt{829}e^{24},$ $\frac{98}{4509} \sqrt{607}e^{14} + \frac{1813}{4509} \sqrt{2}e^{23}, \frac{49}{4509} \sqrt{2310}e^{15} + \frac{98}{4509} \sqrt{353}e^{34}$	$(-\frac{196}{1503}, \frac{1225}{4509}, -\frac{98}{501}, \frac{931}{4509}, \frac{637}{4509}, -\frac{490}{1503}, \frac{2156}{4509}, \frac{343}{4509}, \frac{49}{4509})$ $+ \frac{49}{4509} \sqrt{8022}e^4 \otimes e_6$	{1347, 168}
951:17	$0, 0, 0, 0, \frac{49}{4869} \sqrt{1154}e^{12}, \frac{49}{4869} \sqrt{3030}e^{13}, \frac{98}{4869} \sqrt{985}e^{24},$ $\frac{98}{4869} \sqrt{265}e^{14} + \frac{49}{4869} \sqrt{1754}e^{23}, \frac{49}{4869} \sqrt{2730}e^{15} + \frac{49}{4869} \sqrt{2542}e^{34}$	$(\frac{98}{541}, -\frac{980}{4869}, \frac{147}{541}, -\frac{539}{4869}, -\frac{98}{4869}, \frac{245}{541}, -\frac{1519}{4869}, \frac{343}{4869}, \frac{784}{4869})$ $+ \frac{49}{4869} \sqrt{8358}e^1 \otimes e_7$	{2579, 478}
951:18	$0, 0, 0, 0, \frac{14}{521} \sqrt{30}e^{12}, \frac{28}{521} \sqrt{213}e^{13}, \frac{28}{521} \sqrt{123}e^{34},$ $\frac{14}{521} \sqrt{267}e^{14} + \frac{84}{521} \sqrt{6}e^{23}, \frac{28}{521} \sqrt{105}e^{15} + \frac{28}{521} \sqrt{213}e^{24}$	$(\frac{14}{521}, \frac{175}{521}, -\frac{133}{521}, \frac{28}{521}, \frac{189}{521}, -\frac{119}{521}, -\frac{105}{521}, \frac{42}{521}, \frac{203}{521})$ $- \frac{42}{521} \sqrt{154}e^2 \otimes e_6$	{12359, 167, 2789, 3568}
951:18	$0, 0, 0, 0, \frac{14}{521} \sqrt{30}e^{12}, \frac{28}{521} \sqrt{213}e^{13}, \frac{28}{521} \sqrt{123}e^{34},$ $\frac{14}{521} \sqrt{267}e^{14} + \frac{84}{521} \sqrt{6}e^{23}, \frac{28}{521} \sqrt{105}e^{15} + \frac{28}{521} \sqrt{213}e^{24}$	$(\frac{14}{521}, \frac{175}{521}, -\frac{133}{521}, \frac{28}{521}, \frac{189}{521}, -\frac{119}{521}, -\frac{105}{521}, \frac{42}{521}, \frac{203}{521})$ $+ \frac{42}{521} \sqrt{154}e^2 \otimes e_6$	{12359, 167, 2789, 3568}
951:18	$0, 0, 0, 0, \frac{21}{1123} \sqrt{474}e^{12}, \frac{7}{1123} \sqrt{1698}e^{13}, \frac{21}{1123} \sqrt{474}e^{34},$ $\frac{7}{1123} \sqrt{138}e^{14} + \frac{42}{1123} \sqrt{23}e^{23}, \frac{7}{1123} \sqrt{3990}e^{15} + \frac{42}{1123} \sqrt{102}e^{24}$	$(\frac{7}{1123}, \frac{175}{1123}, -\frac{154}{1123}, \frac{14}{1123}, \frac{182}{1123}, -\frac{147}{1123}, -\frac{140}{1123}, \frac{21}{1123}, \frac{189}{1123})$ $+ \frac{21}{1123} \sqrt{658}e^1 \otimes e_7$	{13456, 4678}
951:18	$0, 0, 0, 0, \frac{7}{283} \sqrt{102}e^{12}, \frac{7}{283} \sqrt{339}e^{13}, \frac{7}{283} \sqrt{381}e^{34},$ $\frac{7}{283} \sqrt{555}e^{14} + \frac{84}{283} \sqrt{3}e^{23}, \frac{35}{283} \sqrt{21}e^{15} + \frac{7}{283} \sqrt{339}e^{24}$	$(\frac{7}{283}, -\frac{70}{283}, \frac{91}{283}, \frac{14}{283}, -\frac{63}{283}, \frac{98}{283}, \frac{105}{283}, \frac{21}{283}, -\frac{56}{283})$ $+ \frac{21}{283} \sqrt{161}e^3 \otimes e_9$	{2346, 4579}
951:18	$0, 0, 0, 0, \frac{84}{283} \sqrt{6}e^{12}, \frac{7}{283} \sqrt{627}e^{13}, \frac{84}{283} \sqrt{6}e^{34},$ $\frac{7}{283} \sqrt{555}e^{14} + \frac{84}{283} \sqrt{3}e^{23}, \frac{35}{283} \sqrt{21}e^{15} + \frac{84}{283} e^{24}$	$(\frac{7}{283}, \frac{91}{283}, -\frac{70}{283}, \frac{14}{283}, \frac{98}{283}, -\frac{63}{283}, -\frac{56}{283}, \frac{21}{283}, \frac{105}{283})$ $+ \frac{21}{283} \sqrt{161}e^2 \otimes e_7$	{23459, 467}
951:18	$0, 0, 0, 0, \frac{7}{943} \sqrt{2802}e^{12}, \frac{14}{943} \sqrt{1095}e^{13}, \frac{14}{943} \sqrt{249}e^{34},$ $\frac{7}{943} \sqrt{2190}e^{14} + \frac{336}{943} e^{23}, \frac{7}{943} \sqrt{3570}e^{15} + \frac{14}{943} \sqrt{1095}e^{24}$	$(\frac{7}{943}, \frac{7}{41}, -\frac{140}{943}, \frac{14}{943}, \frac{168}{943}, -\frac{133}{943}, -\frac{126}{943}, \frac{21}{943}, \frac{175}{943})$ $+ \frac{21}{943} \sqrt{602}e^4 \otimes e_6$	{1678, 356}
951:19	$0, 0, 0, 0, \frac{42}{2609} \sqrt{10}e^{12}, \frac{42}{2609} \sqrt{130}e^{13}, \frac{84}{2609} \sqrt{163}e^{14},$ $\frac{42}{2609} \sqrt{211}e^{24}, \frac{42}{2609} \sqrt{562}e^{16} + \frac{126}{2609} \sqrt{29}e^{25}$	$(\frac{231}{2609}, -\frac{210}{2609}, -\frac{651}{2609}, \frac{693}{2609}, \frac{21}{2609}, -\frac{420}{2609}, \frac{924}{2609}, \frac{483}{2609}, -\frac{189}{2609})$ $- \frac{378}{2609} \sqrt{13}e^1 \otimes e_3 + \frac{84}{2609} \sqrt{321}e^4 \otimes e_9$	{12789, 1579, 23457, 3478}
951:19	$0, 0, 0, 0, \frac{15}{61} \sqrt{6}e^{12}, \frac{3}{61} \sqrt{222}e^{13}, \frac{15}{61} \sqrt{6}e^{14}, \frac{6}{61} \sqrt{66}e^{24},$ $\frac{6}{61} \sqrt{39}e^{16} + \frac{9}{61} \sqrt{14}e^{25}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61} e^3 \otimes e_8$	{1234579, 139, 278, 458}
951:19	$0, 0, 0, 0, \frac{42}{2609} \sqrt{10}e^{12}, \frac{42}{2609} \sqrt{130}e^{13}, \frac{84}{2609} \sqrt{163}e^{14},$ $\frac{42}{2609} \sqrt{211}e^{24}, \frac{42}{2609} \sqrt{562}e^{16} + \frac{126}{2609} \sqrt{29}e^{25}$	$(\frac{231}{2609}, -\frac{210}{2609}, -\frac{651}{2609}, \frac{693}{2609}, \frac{21}{2609}, -\frac{420}{2609}, \frac{924}{2609}, \frac{483}{2609}, -\frac{189}{2609})$ $+ \frac{378}{2609} \sqrt{13}e^1 \otimes e_3 + \frac{84}{2609} \sqrt{321}e^4 \otimes e_9$	{12789, 1579, 23457, 3478}
951:19	$0, 0, 0, 0, \frac{12}{37} e^{12}, \frac{3}{37} \sqrt{2}e^{13}, \frac{12}{37} e^{14}, \frac{3}{37} \sqrt{10}e^{24},$ $\frac{3}{37} \sqrt{2}e^{16} + \frac{6}{37} \sqrt{3}e^{25}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+ \frac{18}{37} e^2 \otimes e_7 + \frac{3}{37} \sqrt{30}e^1 \otimes e_8$	{12469, 15679, 23568, 34678}
951:19	$0, 0, 0, 0, \frac{3}{353} \sqrt{4814}e^{12}, \frac{6}{353} \sqrt{377}e^{13}, \frac{24}{353} \sqrt{58}e^{14}, \frac{3}{353} \sqrt{6322}e^{24},$ $\frac{3}{353} \sqrt{6322}e^{16} + \frac{9}{353} \sqrt{290}e^{25}$	$(-\frac{57}{353}, -\frac{12}{353}, \frac{33}{353}, \frac{180}{353}, -\frac{69}{353}, -\frac{24}{353}, \frac{123}{353}, \frac{168}{353}, -\frac{81}{353})$ $+ \frac{42}{353} \sqrt{87}e^4 \otimes e_9$	{12456, 1468, 23689, 3569}
951:19	$0, 0, 0, 0, \frac{12}{37} e^{12}, \frac{3}{37} \sqrt{2}e^{13}, \frac{12}{37} e^{14}, \frac{3}{37} \sqrt{10}e^{24},$ $\frac{3}{37} \sqrt{2}e^{16} + \frac{6}{37} \sqrt{3}e^{25}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $- \frac{18}{37} e^2 \otimes e_7 + \frac{3}{37} \sqrt{30}e^1 \otimes e_8$	{12469, 15679, 23568, 34678}
951:19	$0, 0, 0, 0, \frac{30}{619} \sqrt{62}e^{12}, \frac{15}{619} \sqrt{182}e^{13}, \frac{60}{619} \sqrt{19}e^{14}, \frac{210}{619} e^{24},$ $\frac{210}{619} e^{16} + \frac{45}{619} \sqrt{14}e^{25}$	$(-\frac{150}{619}, \frac{30}{619}, \frac{210}{619}, \frac{135}{619}, -\frac{120}{619}, \frac{60}{619}, -\frac{15}{619}, \frac{165}{619}, -\frac{90}{619})$ $+ \frac{30}{619} \sqrt{159}e^4 \otimes e_9 + \frac{90}{619} \sqrt{13}e^3 \otimes e_7$	{23689, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:19	$0, 0, 0, 0, \frac{6}{37}\sqrt{2}e^{12}, \frac{3}{37}\sqrt{26}e^{13}, \frac{6}{37}e^{14}, \frac{3}{37}\sqrt{22}e^{24},$ $\frac{3}{37}\sqrt{22}e^{16} + \frac{6}{37}\sqrt{3}e^{25}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+ \frac{3}{37}\sqrt{42}e^1 \otimes e_8 + \frac{6}{37}\sqrt{6}e^3 \otimes e_7$	{123459, 4578}
951:19	$0, 0, 0, 0, \frac{3}{61}\sqrt{174}e^{12}, \frac{3}{61}\sqrt{102}e^{13}, \frac{3}{61}\sqrt{174}e^{14}, \frac{6}{61}\sqrt{15}e^{24},$ $\frac{6}{61}\sqrt{42}e^{16} + \frac{9}{61}\sqrt{22}e^{25}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^2 \otimes e_7$	{1234689, 1356789, 256, 467}
951:19	$0, 0, 0, 0, \frac{12}{89}\sqrt{5}e^{12}, \frac{15}{89}\sqrt{14}e^{13}, \frac{12}{89}\sqrt{5}e^{14}, \frac{3}{89}\sqrt{430}e^{24},$ $\frac{3}{89}\sqrt{430}e^{16} + \frac{12}{89}\sqrt{15}e^{25}$	$(\frac{27}{89}, \frac{3}{89}, -\frac{21}{89}, -\frac{21}{89}, \frac{30}{89}, \frac{6}{89}, \frac{6}{89}, -\frac{18}{89}, \frac{33}{89})$ $+ \frac{15}{89}\sqrt{30}e^1 \otimes e_8$	{1234579, 139, 278, 458}
951:19	$0, 0, 0, 0, \frac{6}{163}\sqrt{14}e^{12}, \frac{12}{163}\sqrt{5}e^{13}, \frac{3}{163}\sqrt{10}e^{14}, \frac{6}{163}\sqrt{34}e^{24},$ $\frac{6}{163}\sqrt{34}e^{16} + \frac{18}{163}e^{25}$	$(\frac{12}{163}, -\frac{6}{163}, -\frac{24}{163}, \frac{9}{163}, \frac{6}{163}, -\frac{12}{163}, \frac{21}{163}, \frac{3}{163}, 0)$ $+ \frac{27}{163}\sqrt{2}e^1 \otimes e_8 + \frac{6}{163}\sqrt{33}e^4 \otimes e_9$	{1379, 4578}
951:19	$0, 0, 0, 0, \frac{30}{137}e^{12}, \frac{3}{137}\sqrt{85}e^{13}, \frac{3}{137}\sqrt{202}e^{14}, \frac{3}{137}\sqrt{13}e^{24},$ $\frac{3}{137}\sqrt{86}e^{16} + \frac{9}{137}\sqrt{23}e^{25}$	$(-\frac{21}{137}, \frac{6}{137}, \frac{33}{137}, \frac{9}{137}, -\frac{15}{137}, \frac{12}{137}, -\frac{12}{137}, \frac{15}{137}, -\frac{9}{137})$ $+ \frac{6}{137}\sqrt{51}e^4 \otimes e_9 + \frac{9}{137}\sqrt{33}e^2 \otimes e_7$	{135679, 4678}
951:19	$0, 0, 0, 0, \frac{6}{341}\sqrt{779}e^{12}, \frac{6}{341}\sqrt{1886}e^{13}, \frac{3}{341}\sqrt{8446}e^{14}, \frac{3}{341}\sqrt{902}e^{24},$ $\frac{3}{341}\sqrt{902}e^{16} + \frac{9}{341}\sqrt{246}e^{25}$	$(-\frac{87}{341}, \frac{81}{341}, \frac{249}{341}, -\frac{3}{341}, \frac{6}{341}, \frac{162}{341}, -\frac{120}{341}, \frac{48}{341}, \frac{75}{341})$ $+ \frac{6}{341}\sqrt{5781}e^3 \otimes e_7$	{123458, 134, 24789, 4579}
951:19	$0, 0, 0, 0, \frac{18}{503}\sqrt{462}e^{12}, \frac{36}{503}\sqrt{57}e^{13}, \frac{18}{503}\sqrt{462}e^{14}, \frac{18}{503}\sqrt{267}e^{24},$ $\frac{36}{503}\sqrt{39}e^{16} + \frac{54}{503}\sqrt{13}e^{25}$	$(\frac{219}{503}, -\frac{24}{503}, -\frac{267}{503}, \frac{15}{503}, \frac{195}{503}, -\frac{48}{503}, \frac{234}{503}, -\frac{9}{503}, \frac{171}{503})$ $+ \frac{54}{503}\sqrt{141}e^1 \otimes e_3$	{12489, 1279, 1459, 15789, 234578, 235, 347, 38}
951:19	$0, 0, 0, 0, \frac{18}{503}\sqrt{462}e^{12}, \frac{36}{503}\sqrt{57}e^{13}, \frac{18}{503}\sqrt{462}e^{14}, \frac{18}{503}\sqrt{267}e^{24},$ $\frac{36}{503}\sqrt{39}e^{16} + \frac{54}{503}\sqrt{13}e^{25}$	$(\frac{219}{503}, -\frac{24}{503}, -\frac{267}{503}, \frac{15}{503}, \frac{195}{503}, -\frac{48}{503}, \frac{234}{503}, -\frac{9}{503}, \frac{171}{503})$ $- \frac{54}{503}\sqrt{141}e^1 \otimes e_3$	{12489, 1279, 1459, 15789, 234578, 235, 347, 38}
951:19	$0, 0, 0, 0, \frac{3}{137}\sqrt{197}e^{12}, \frac{6}{137}\sqrt{53}e^{13}, \frac{3}{137}\sqrt{95}e^{14}, \frac{3}{137}\sqrt{310}e^{24},$ $\frac{3}{137}\sqrt{211}e^{16} + \frac{9}{137}\sqrt{10}e^{25}$	$(-\frac{21}{137}, \frac{6}{137}, \frac{33}{137}, \frac{9}{137}, -\frac{15}{137}, \frac{12}{137}, -\frac{12}{137}, \frac{15}{137}, -\frac{9}{137})$ $+ \frac{6}{137}\sqrt{51}e^4 \otimes e_9 + \frac{9}{137}\sqrt{33}e^3 \otimes e_8$	{139, 458}
951:20	$0, 0, 0, 0, \frac{3}{763}\sqrt{2562}e^{12}, \frac{6}{763}\sqrt{678}e^{13}, \frac{18}{763}\sqrt{130}e^{14}, \frac{6}{763}\sqrt{381}e^{24},$ $\frac{18}{763}\sqrt{55}e^{15} + \frac{9}{763}\sqrt{582}e^{36}$	$(-\frac{90}{763}, \frac{18}{109}, \frac{18}{763}, \frac{27}{763}, \frac{36}{763}, -\frac{72}{763}, -\frac{9}{109}, \frac{153}{763}, -\frac{54}{763})$ $+ \frac{6}{763}\sqrt{1365}e^4 \otimes e_9 + \frac{6}{763}\sqrt{1761}e^3 \otimes e_7$	{1256789, 4578}
951:20	$0, 0, 0, 0, \frac{19}{63}\sqrt{5}e^{12}, \frac{2}{189}\sqrt{1615}e^{13}, \frac{1}{189}\sqrt{16530}e^{14}, \frac{1}{189}\sqrt{13015}e^{24},$ $\frac{1}{189}\sqrt{570}e^{15} + \frac{1}{189}\sqrt{4465}e^{36}$	$(-\frac{34}{189}, \frac{16}{27}, \frac{13}{63}, -\frac{44}{189}, \frac{26}{63}, \frac{5}{189}, -\frac{26}{63}, \frac{68}{189}, \frac{44}{189})$ $+ \frac{1}{63}\sqrt{6555}e^2 \otimes e_7$	{12346, 124, 34789, 46789}
951:20	$0, 0, 0, 0, \frac{1}{1543}\sqrt{330770}e^{12}, \frac{1}{1543}\sqrt{151514}e^{13}, \frac{1}{1543}\sqrt{736230}e^{14},$ $\frac{11}{1543}\sqrt{7954}e^{24}, \frac{1}{1543}\sqrt{603922}e^{15} + \frac{2}{1543}\sqrt{224070}e^{36}$	$(-\frac{142}{1543}, -\frac{36}{1543}, -\frac{89}{1543}, \frac{747}{1543}, -\frac{178}{1543}, -\frac{231}{1543}, \frac{605}{1543}, \frac{711}{1543}, -\frac{320}{1543})$ $+ \frac{1}{1543}\sqrt{2737922}e^4 \otimes e_9$	{123456, 1245, 359, 569}
951:20	$0, 0, 0, 0, \frac{1}{61}\sqrt{30}e^{12}, \frac{3}{61}\sqrt{6}e^{13}, \frac{5}{61}\sqrt{6}e^{14}, \frac{3}{61}\sqrt{34}e^{24},$ $\frac{1}{61}\sqrt{258}e^{15} + \frac{2}{61}\sqrt{30}e^{36}$	$(\frac{6}{61}, -\frac{12}{61}, -\frac{3}{61}, \frac{9}{61}, -\frac{6}{61}, \frac{3}{61}, \frac{15}{61}, -\frac{3}{61}, 0)$ $+ \frac{1}{61}\sqrt{498}e^4 \otimes e_9 + \frac{4}{61}\sqrt{30}e^1 \otimes e_8$	{34678, 478}
951:20	$0, 0, 0, 0, \frac{6}{275}\sqrt{37}e^{12}, \frac{24}{275}\sqrt{6}e^{13}, \frac{6}{275}\sqrt{262}e^{14}, \frac{6}{275}\sqrt{267}e^{24},$ $\frac{6}{275}\sqrt{106}e^{15} + \frac{13}{275}\sqrt{21}e^{36}$	$(-\frac{48}{275}, \frac{12}{55}, \frac{6}{275}, \frac{36}{275}, \frac{12}{275}, -\frac{42}{275}, -\frac{12}{275}, \frac{96}{275}, -\frac{36}{275})$ $+ \frac{12}{275}\sqrt{139}e^4 \otimes e_9 + \frac{6}{275}\sqrt{427}e^2 \otimes e_7$	{23589, 25689}
951:20	$0, 0, 0, 0, \frac{4}{1467}\sqrt{2515}e^{12}, \frac{1}{1467}\sqrt{789710}e^{13}, \frac{8}{1467}\sqrt{3018}e^{14},$ $\frac{1}{1467}\sqrt{677038}e^{24}, \frac{4}{1467}\sqrt{21126}e^{15} + \frac{1}{1467}\sqrt{604606}e^{36}$	$(\frac{289}{1467}, -\frac{127}{1467}, \frac{9}{163}, -\frac{295}{1467}, \frac{18}{163}, \frac{370}{1467}, -\frac{2}{489}, -\frac{422}{1467}, \frac{451}{1467})$ $+ \frac{1}{1467}\sqrt{1288686}e^3 \otimes e_8$	{1234579, 125689, 3567, 458}
951:20	$0, 0, 0, 0, \frac{2}{37}\sqrt{21}e^{12}, \frac{1}{37}\sqrt{246}e^{13}, \frac{2}{37}\sqrt{6}e^{14}, \frac{1}{37}\sqrt{258}e^{24},$ $\frac{2}{37}\sqrt{30}e^{15} + \frac{1}{37}\sqrt{210}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+ \frac{1}{37}\sqrt{438}e^3 \otimes e_8 + \frac{2}{37}\sqrt{39}e^2 \otimes e_7$	{125689, 3567}
951:20	$0, 0, 0, 0, \frac{3}{287}\sqrt{1946}e^{12}, \frac{2}{287}\sqrt{7923}e^{13}, \frac{3}{287}\sqrt{3614}e^{14}, \frac{2}{287}\sqrt{417}e^{24},$ $\frac{1}{287}\sqrt{30302}e^{15} + \frac{2}{287}\sqrt{9174}e^{36}$	$(-\frac{23}{287}, \frac{15}{41}, \frac{1}{7}, -\frac{75}{287}, \frac{2}{7}, \frac{18}{287}, -\frac{14}{41}, \frac{30}{287}, \frac{59}{287})$ $+ \frac{1}{287}\sqrt{69778}e^3 \otimes e_7$	{1234589, 125679, 3568, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:20	$0, 0, 0, 0, \frac{3}{37}\sqrt{15}e^{12}, \frac{3}{37}\sqrt{3}e^{13}, \frac{3}{74}\sqrt{38}e^{14}, \frac{3}{74}\sqrt{66}e^{24},$ $\frac{3}{37}\sqrt{11}e^{15} + \frac{3}{37}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $-\frac{3}{74}\sqrt{118}e^2 \otimes e_7 + \frac{3}{74}\sqrt{146}e^1 \otimes e_8$	{1357, 1567, 235689, 2589}
951:20	$0, 0, 0, 0, \frac{3}{37}\sqrt{15}e^{12}, \frac{3}{37}\sqrt{3}e^{13}, \frac{3}{74}\sqrt{38}e^{14}, \frac{3}{74}\sqrt{66}e^{24},$ $\frac{3}{37}\sqrt{11}e^{15} + \frac{3}{37}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{3}{74}\sqrt{118}e^2 \otimes e_7 + \frac{3}{74}\sqrt{146}e^1 \otimes e_8$	{1357, 1567, 235689, 2589}
951:20	$0, 0, 0, 0, \frac{1}{37}\sqrt{42}e^{12}, \frac{2}{37}\sqrt{51}e^{13}, \frac{1}{37}\sqrt{174}e^{14}, \frac{2}{37}\sqrt{15}e^{24},$ $\frac{1}{37}\sqrt{78}e^{15} + \frac{2}{37}\sqrt{42}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{1}{37}\sqrt{354}e^3 \otimes e_7 + \frac{4}{37}\sqrt{15}e^1 \otimes e_8$	{123459, 4578}
951:20	$0, 0, 0, 0, \frac{1}{197}\sqrt{9869}e^{12}, \frac{1}{197}\sqrt{9514}e^{13}, \frac{1}{197}\sqrt{2201}e^{14}, \frac{1}{197}\sqrt{14626}e^{24},$ $\frac{6}{197}\sqrt{426}e^{15} + \frac{5}{197}\sqrt{71}e^{36}$	$(\frac{67}{197}, -\frac{51}{197}, \frac{8}{197}, -\frac{24}{197}, \frac{16}{197}, \frac{75}{197}, \frac{43}{197}, -\frac{75}{197}, \frac{83}{197})$ $+\frac{1}{197}\sqrt{45937}e^1 \otimes e_8$	{1357, 1567, 235689, 2589}
951:20	$0, 0, 0, 0, \frac{15}{6859}\sqrt{2830}e^{12}, \frac{30}{6859}\sqrt{1031}e^{13}, \frac{30}{6859}\sqrt{39}e^{14},$ $\frac{30}{6859}\sqrt{1366}e^{24}, \frac{60}{6859}\sqrt{61}e^{15} + \frac{15}{6859}\sqrt{4898}e^{36}$	$(\frac{390}{6859}, -\frac{690}{6859}, -\frac{150}{6859}, \frac{315}{6859}, -\frac{300}{6859}, \frac{240}{6859}, \frac{705}{6859}, -\frac{375}{6859}, \frac{90}{6859})$ $+\frac{30}{6859}\sqrt{1249}e^4 \otimes e_9 + \frac{30}{6859}\sqrt{1867}e^3 \otimes e_8$	{1256789, 4578}
951:21	$0, 0, 0, 0, -\frac{12}{37}e^{12}, \frac{3}{37}\sqrt{34}e^{13}, \frac{12}{37}e^{14}, \frac{3}{37}\sqrt{42}e^{24},$ $\frac{6}{37}\sqrt{5}e^{25} + \frac{3}{37}\sqrt{30}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{3}{37}\sqrt{62}e^3 \otimes e_8 + \frac{6}{37}e^2 \otimes e_7$	{125689, 146789, 2346, 3567, 125689, 146789, 2346, 3567}
951:21	$0, 0, 0, 0, \frac{12}{37}e^{12}, \frac{3}{37}\sqrt{34}e^{13}, \frac{12}{37}e^{14}, \frac{3}{37}\sqrt{42}e^{24},$ $\frac{6}{37}\sqrt{5}e^{25} + \frac{3}{37}\sqrt{30}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{3}{37}\sqrt{62}e^3 \otimes e_8 + \frac{6}{37}e^2 \otimes e_7$	{125689, 146789, 2346, 3567, 125689, 146789, 2346, 3567}
951:21	$0, 0, 0, 0, -\frac{14}{103}\sqrt{22}e^{12}, \frac{1}{103}\sqrt{2002}e^{13}, \frac{14}{103}\sqrt{22}e^{14}, \frac{2}{103}\sqrt{154}e^{24},$ $\frac{7}{103}\sqrt{110}e^{25} + \frac{2}{103}\sqrt{231}e^{36}$	$(-\frac{26}{103}, \frac{36}{103}, \frac{36}{103}, -\frac{15}{103}, \frac{10}{103}, \frac{10}{103}, -\frac{41}{103}, \frac{21}{103}, \frac{46}{103})$ $+\frac{2}{103}\sqrt{3311}e^2 \otimes e_7$	{123469, 1249, 135679, 1579, 2358, 2568, 3478, 4678, 123469, 1249, 135679, 1579, 2358, 2568, 3478, 4678}
951:21	$0, 0, 0, 0, \frac{14}{103}\sqrt{22}e^{12}, \frac{1}{103}\sqrt{2002}e^{13}, \frac{14}{103}\sqrt{22}e^{14}, \frac{2}{103}\sqrt{154}e^{24},$ $\frac{7}{103}\sqrt{110}e^{25} + \frac{2}{103}\sqrt{231}e^{36}$	$(-\frac{26}{103}, \frac{36}{103}, \frac{36}{103}, -\frac{15}{103}, \frac{10}{103}, \frac{10}{103}, -\frac{41}{103}, \frac{21}{103}, \frac{46}{103})$ $+\frac{2}{103}\sqrt{3311}e^2 \otimes e_7$	{123469, 1249, 135679, 1579, 2358, 2568, 3478, 4678, 123469, 1249, 135679, 1579, 2358, 2568, 3478, 4678}
951:21	$0, 0, 0, 0, -\frac{1}{103}\sqrt{2310}e^{12}, \frac{2}{103}\sqrt{1155}e^{13}, \frac{14}{103}\sqrt{22}e^{14}, \frac{2}{103}\sqrt{154}e^{24},$ $\frac{4}{103}\sqrt{77}e^{25} + \frac{1}{103}\sqrt{5698}e^{36}$	$(-\frac{26}{103}, \frac{36}{103}, \frac{36}{103}, -\frac{15}{103}, \frac{10}{103}, \frac{10}{103}, -\frac{41}{103}, \frac{21}{103}, \frac{46}{103})$ $+\frac{2}{103}\sqrt{3311}e^3 \otimes e_7$	{123459, 1256789, 13489, 1679, 2368, 247, 356, 4578, 123459, 1256789, 13489, 1679, 2368, 247, 356, 4578}
951:21	$0, 0, 0, 0, \frac{1}{103}\sqrt{2310}e^{12}, \frac{2}{103}\sqrt{1155}e^{13}, \frac{14}{103}\sqrt{22}e^{14}, \frac{2}{103}\sqrt{154}e^{24},$ $\frac{4}{103}\sqrt{77}e^{25} + \frac{1}{103}\sqrt{5698}e^{36}$	$(-\frac{26}{103}, \frac{36}{103}, \frac{36}{103}, -\frac{15}{103}, \frac{10}{103}, \frac{10}{103}, -\frac{41}{103}, \frac{21}{103}, \frac{46}{103})$ $+\frac{2}{103}\sqrt{3311}e^3 \otimes e_7$	{123459, 1256789, 13489, 1679, 2368, 247, 356, 4578, 123459, 1256789, 13489, 1679, 2368, 247, 356, 4578}
951:21	$0, 0, 0, 0, -\frac{3}{74}\sqrt{10}e^{12}, \frac{3}{74}\sqrt{82}e^{13}, \frac{3}{37}\sqrt{15}e^{14}, \frac{3}{37}\sqrt{11}e^{24},$ $\frac{3}{74}\sqrt{26}e^{25} + \frac{3}{74}\sqrt{66}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{3}{37}\sqrt{31}e^1 \otimes e_8 + \frac{3}{37}\sqrt{35}e^3 \otimes e_7$	{123459, 1679, 2368, 4578, 123459, 1679, 2368, 4578}
951:21	$0, 0, 0, 0, \frac{3}{74}\sqrt{10}e^{12}, \frac{3}{74}\sqrt{82}e^{13}, \frac{3}{37}\sqrt{15}e^{14}, \frac{3}{37}\sqrt{11}e^{24},$ $\frac{3}{74}\sqrt{26}e^{25} + \frac{3}{74}\sqrt{66}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{3}{37}\sqrt{31}e^1 \otimes e_8 + \frac{3}{37}\sqrt{35}e^3 \otimes e_7$	{123459, 1679, 2368, 4578, 123459, 1679, 2368, 4578}
951:21	$0, 0, 0, 0, -\frac{1}{421}\sqrt{27835}e^{12}, \frac{1}{421}\sqrt{1465}e^{13}, \frac{1}{421}\sqrt{74422}e^{14},$ $\frac{6}{421}\sqrt{1465}e^{24}, \frac{1}{421}\sqrt{41899}e^{25} + \frac{1}{421}\sqrt{68269}e^{36}$	$(-\frac{5}{421}, -\frac{42}{421}, -\frac{42}{421}, \frac{204}{421}, -\frac{47}{421}, -\frac{47}{421}, \frac{199}{421}, \frac{162}{421}, -\frac{89}{421})$ $+\frac{1}{421}\sqrt{204514}e^4 \otimes e_9$	{123456, 1245, 13468, 148, 2389, 2689, 359, 569, 123456, 1245, 13468, 148, 2389, 2689, 359, 569}
951:21	$0, 0, 0, 0, \frac{1}{421}\sqrt{27835}e^{12}, \frac{1}{421}\sqrt{1465}e^{13}, \frac{1}{421}\sqrt{74422}e^{14}, \frac{6}{421}\sqrt{1465}e^{24},$ $\frac{1}{421}\sqrt{41899}e^{25} + \frac{1}{421}\sqrt{68269}e^{36}$	$(-\frac{5}{421}, -\frac{42}{421}, -\frac{42}{421}, \frac{204}{421}, -\frac{47}{421}, -\frac{47}{421}, \frac{199}{421}, \frac{162}{421}, -\frac{89}{421})$ $+\frac{1}{421}\sqrt{204514}e^4 \otimes e_9$	{123456, 1245, 13468, 148, 2389, 2689, 359, 569, 123456, 1245, 13468, 148, 2389, 2689, 359, 569}
951:21	$0, 0, 0, 0, -\frac{3}{1699}\sqrt{734}e^{12}, \frac{6}{1699}\sqrt{265}e^{13}, \frac{6}{1699}\sqrt{43}e^{14}, \frac{120}{1699}e^{24},$ $\frac{12}{1699}\sqrt{31}e^{25} + \frac{3}{1699}\sqrt{1298}e^{36}$	$(\frac{66}{1699}, -\frac{42}{1699}, -\frac{42}{1699}, -\frac{9}{1699}, \frac{24}{1699}, \frac{24}{1699}, \frac{57}{1699}, -\frac{51}{1699}, -\frac{18}{1699})$ $+\frac{6}{1699}\sqrt{281}e^4 \otimes e_9 + \frac{6}{1699}\sqrt{497}e^3 \otimes e_8$	{125689, 139, 2346, 458, 125689, 139, 2346, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:21	$0, 0, 0, 0, \frac{3}{1699} \sqrt{734}e^{12}, \frac{6}{1699} \sqrt{265}e^{13}, \frac{6}{1699} \sqrt{43}e^{14}, \frac{120}{1699} e^{24},$ $\frac{12}{1699} \sqrt{31}e^{25} + \frac{3}{1699} \sqrt{1298}e^{36}$	$(\frac{66}{1699}, -\frac{42}{1699}, -\frac{42}{1699}, -\frac{9}{1699}, \frac{24}{1699}, \frac{24}{1699}, \frac{57}{1699}, -\frac{51}{1699}, -\frac{18}{1699})$ $+ \frac{6}{1699} \sqrt{281}e^4 \otimes e_9 + \frac{6}{1699} \sqrt{497}e^3 \otimes e_8$	{125689, 139, 2346, 458, 125689, 139, 2346, 458}
951:21	$0, 0, 0, 0, -\frac{8}{387} \sqrt{285}e^{12}, \frac{1}{387} \sqrt{36670}e^{13}, \frac{8}{387} \sqrt{285}e^{14}, \frac{1}{387} \sqrt{44270}e^{24},$ $\frac{20}{387} \sqrt{57}e^{25} + \frac{13}{387} \sqrt{190}e^{36}$	$(\frac{41}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{22}{129}, \frac{22}{129}, -\frac{6}{43}, -\frac{70}{387}, \frac{91}{387})$ $+ \frac{5}{387} \sqrt{2622}e^3 \otimes e_8$	{1234579, 125689, 139, 146789, 2346, 278, 3567, 458, 1234579, 125689, 139, 146789, 2346, 278, 3567, 458}
951:21	$0, 0, 0, 0, \frac{8}{387} \sqrt{285}e^{12}, \frac{1}{387} \sqrt{36670}e^{13}, \frac{8}{387} \sqrt{285}e^{14}, \frac{1}{387} \sqrt{44270}e^{24},$ $\frac{20}{387} \sqrt{57}e^{25} + \frac{13}{387} \sqrt{190}e^{36}$	$(\frac{41}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{22}{129}, \frac{22}{129}, -\frac{6}{43}, -\frac{70}{387}, \frac{91}{387})$ $+ \frac{5}{387} \sqrt{2622}e^3 \otimes e_8$	{1234579, 125689, 139, 146789, 2346, 278, 3567, 458, 1234579, 125689, 139, 146789, 2346, 278, 3567, 458}
951:23	$0, 0, 0, 0, \frac{2}{17} \sqrt{10}e^{12}, \frac{3}{17} \sqrt{10}e^{13}, \frac{1}{17} \sqrt{110}e^{24}, \frac{2}{17} \sqrt{15}e^{34},$ $\frac{3}{17} \sqrt{10}e^{16} + \frac{2}{17} \sqrt{15}e^{25}$	$(\frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{5}{17})$ $+ \frac{5}{17} \sqrt{6}e^1 \otimes e_7$	{1234589, 139, 278, 457}
951:23	$0, 0, 0, 0, \frac{1}{1167} \sqrt{489830}e^{12}, \frac{1}{1167} \sqrt{248930}e^{13}, \frac{1}{1167} \sqrt{287474}e^{24},$ $\frac{1}{1167} \sqrt{637582}e^{34}, \frac{2}{1167} \sqrt{110814}e^{16} + \frac{1}{1167} \sqrt{13651}e^{25}$	$(\frac{431}{1167}, \frac{13}{389}, -\frac{353}{1167}, -\frac{19}{1167}, \frac{470}{1167}, \frac{26}{389}, \frac{20}{1167}, -\frac{124}{389}, \frac{509}{1167})$ $+ \frac{44}{1167} \sqrt{803}e^1 \otimes e_8$	{123479, 13459, 24578, 48}
951:23	$0, 0, 0, 0, \frac{3}{301} \sqrt{206}e^{12}, \frac{6}{301} \sqrt{34}e^{13}, \frac{3}{301} \sqrt{30}e^{24}, \frac{48}{301} e^{34},$ $\frac{3}{301} \sqrt{58}e^{16} + \frac{3}{301} \sqrt{230}e^{25}$	$(\frac{3}{43}, -\frac{6}{301}, -\frac{33}{301}, \frac{18}{301}, \frac{15}{301}, -\frac{12}{301}, \frac{12}{301}, -\frac{15}{301}, \frac{9}{301})$ $+ \frac{12}{301} \sqrt{13}e^4 \otimes e_9 + \frac{6}{301} \sqrt{85}e^2 \otimes e_8$	{1356789, 468}
951:23	$0, 0, 0, 0, \frac{1}{17} \sqrt{110}e^{12}, \frac{2}{17} \sqrt{15}e^{13}, \frac{2}{17} \sqrt{10}e^{24}, \frac{3}{17} \sqrt{10}e^{34},$ $\frac{2}{17} \sqrt{15}e^{16} + \frac{3}{17} \sqrt{10}e^{25}$	$(\frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{5}{17})$ $+ \frac{5}{17} \sqrt{6}e^2 \otimes e_8$	{1234679, 1356789, 256, 468}
951:23	$0, 0, 0, 0, \frac{1}{1167} \sqrt{287474}e^{12}, \frac{2}{1167} \sqrt{13651}e^{13}, \frac{1}{1167} \sqrt{489830}e^{24},$ $\frac{2}{1167} \sqrt{110814}e^{34}, \frac{1}{1167} \sqrt{637582}e^{16} + \frac{1}{1167} \sqrt{248930}e^{25}$	$(-\frac{53}{1167}, -\frac{82}{1167}, -\frac{37}{389}, \frac{586}{1167}, -\frac{45}{389}, -\frac{164}{1167}, \frac{168}{389}, \frac{475}{1167}, -\frac{217}{1167})$ $+ \frac{44}{1167} \sqrt{803}e^4 \otimes e_9$	{124568, 14678, 236789, 35689}
951:23	$0, 0, 0, 0, \frac{1}{279} \sqrt{38570}e^{12}, \frac{1}{279} \sqrt{49938}e^{13}, \frac{1}{279} \sqrt{57246}e^{24},$ $\frac{1}{279} \sqrt{2030}e^{34}, \frac{8}{279} \sqrt{406}e^{16} + \frac{2}{93} \sqrt{609}e^{25}$	$(-\frac{49}{279}, \frac{17}{93}, \frac{151}{279}, -\frac{103}{279}, \frac{2}{93}, \frac{34}{279}, -\frac{52}{279}, \frac{16}{93}, \frac{53}{279})$ $+ \frac{2}{279} \sqrt{23954}e^3 \otimes e_7$	{123459, 1389, 27, 4578}
951:23	$0, 0, 0, 0, \frac{3}{301} \sqrt{134}e^{12}, \frac{6}{301} \sqrt{51}e^{13}, \frac{3}{301} \sqrt{310}e^{24}, \frac{6}{301} \sqrt{21}e^{34},$ $\frac{3}{301} \sqrt{282}e^{16} + \frac{3}{301} \sqrt{110}e^{25}$	$(\frac{3}{43}, -\frac{6}{301}, -\frac{33}{301}, \frac{18}{301}, \frac{15}{301}, -\frac{12}{301}, \frac{12}{301}, -\frac{15}{301}, \frac{9}{301})$ $+ \frac{12}{301} \sqrt{13}e^4 \otimes e_9 + \frac{6}{301} \sqrt{85}e^1 \otimes e_7$	{139, 457}
951:23	$0, 0, 0, 0, \frac{1}{37} \sqrt{30}e^{12}, \frac{8}{37} \sqrt{3}e^{13}, \frac{1}{37} \sqrt{114}e^{24}, \frac{2}{37} \sqrt{30}e^{34},$ $\frac{2}{37} \sqrt{39}e^{16} + \frac{1}{37} \sqrt{66}e^{25}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+ \frac{10}{37} \sqrt{3}e^1 \otimes e_8 + \frac{7}{37} \sqrt{6}e^3 \otimes e_7$	{123459, 4578}
951:23	$0, 0, 0, 0, \frac{6}{545} \sqrt{143}e^{12}, \frac{3}{545} \sqrt{858}e^{13}, \frac{6}{545} \sqrt{143}e^{24}, \frac{24}{545} \sqrt{55}e^{34},$ $\frac{24}{545} \sqrt{55}e^{16} + \frac{3}{545} \sqrt{858}e^{25}$	$(\frac{78}{545}, -\frac{6}{109}, -\frac{138}{545}, \frac{117}{545}, \frac{48}{545}, -\frac{12}{109}, \frac{87}{545}, -\frac{21}{545}, \frac{18}{545})$ $+ \frac{66}{545} \sqrt{11}e^1 \otimes e_8 + \frac{66}{545} \sqrt{11}e^4 \otimes e_9$	{2458, 478}
951:23	$0, 0, 0, 0, \frac{30}{1579} \sqrt{218}e^{12}, \frac{60}{1579} \sqrt{46}e^{13}, \frac{60}{1579} \sqrt{79}e^{24}, \frac{15}{1579} \sqrt{386}e^{34},$ $\frac{30}{1579} \sqrt{230}e^{16} + \frac{30}{1579} \sqrt{37}e^{25}$	$(-\frac{240}{1579}, \frac{30}{1579}, \frac{300}{1579}, \frac{45}{1579}, -\frac{210}{1579}, \frac{60}{1579}, \frac{75}{1579}, \frac{345}{1579}, -\frac{180}{1579})$ $+ \frac{15}{1579} \sqrt{1418}e^3 \otimes e_7 + \frac{30}{1579} \sqrt{359}e^4 \otimes e_9$	{1389, 4578}
951:24	$0, 0, 0, 0, -\frac{7}{293} \sqrt{15}e^{12}, \frac{7}{293} \sqrt{15}e^{13}, \frac{7}{293} \sqrt{590}e^{24}, \frac{7}{293} \sqrt{590}e^{34},$ $\frac{21}{293} \sqrt{65}e^{25} + \frac{21}{293} \sqrt{65}e^{36}$	$(\frac{56}{293}, -\frac{63}{293}, -\frac{63}{293}, \frac{175}{293}, -\frac{7}{293}, -\frac{7}{293}, \frac{112}{293}, \frac{112}{293}, -\frac{70}{293})$ $+ \frac{140}{293} \sqrt{6}e^4 \otimes e_9$	{123456, 12458, 1478, 23789, 2679, 569, 123456, 12458, 1478, 23789, 2679, 569}
951:24	$0, 0, 0, 0, \frac{7}{293} \sqrt{15}e^{12}, \frac{7}{293} \sqrt{15}e^{13}, \frac{7}{293} \sqrt{590}e^{24}, \frac{7}{293} \sqrt{590}e^{34},$ $\frac{21}{293} \sqrt{65}e^{25} + \frac{21}{293} \sqrt{65}e^{36}$	$(\frac{56}{293}, -\frac{63}{293}, -\frac{63}{293}, \frac{175}{293}, -\frac{7}{293}, -\frac{7}{293}, \frac{112}{293}, \frac{112}{293}, -\frac{70}{293})$ $+ \frac{140}{293} \sqrt{6}e^4 \otimes e_9$	{123456, 12458, 1478, 23789, 2679, 569, 123456, 12458, 1478, 23789, 2679, 569}
951:24	$0, 0, 0, 0, -\frac{3}{181} \sqrt{14}e^{12}, \frac{42}{181} \sqrt{3}e^{13}, \frac{6}{181} \sqrt{238}e^{24}, \frac{18}{181} \sqrt{7}e^{34},$ $\frac{6}{181} \sqrt{14}e^{25} + \frac{3}{181} \sqrt{546}e^{36}$	$(\frac{66}{181}, -\frac{42}{181}, -\frac{42}{181}, \frac{45}{181}, \frac{24}{181}, \frac{24}{181}, \frac{3}{181}, \frac{3}{181}, -\frac{18}{181})$ $+ \frac{6}{181} \sqrt{259}e^4 \otimes e_9 + \frac{6}{181} \sqrt{301}e^1 \otimes e_7$	{139, 1689, 345678, 457, 139, 1689, 345678, 457}
951:24	$0, 0, 0, 0, \frac{3}{181} \sqrt{14}e^{12}, \frac{42}{181} \sqrt{3}e^{13}, \frac{6}{181} \sqrt{238}e^{24}, \frac{18}{181} \sqrt{7}e^{34},$ $\frac{6}{181} \sqrt{14}e^{25} + \frac{3}{181} \sqrt{546}e^{36}$	$(\frac{66}{181}, -\frac{42}{181}, -\frac{42}{181}, \frac{45}{181}, \frac{24}{181}, \frac{24}{181}, \frac{3}{181}, \frac{3}{181}, -\frac{18}{181})$ $+ \frac{6}{181} \sqrt{259}e^4 \otimes e_9 + \frac{6}{181} \sqrt{301}e^1 \otimes e_7$	{139, 1689, 345678, 457, 139, 1689, 345678, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:24	$0, 0, 0, 0, -\frac{3}{37}\sqrt{30}e^{12}, \frac{6}{37}\sqrt{3}e^{13}, \frac{6}{37}e^{24}, \frac{3}{37}\sqrt{30}e^{34},$ $\frac{3}{37}\sqrt{26}e^{25} + \frac{12}{37}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{12}{37}e^1 \otimes e_7 + \frac{15}{37}\sqrt{2}e^2 \otimes e_8$	{129, 14589, 23457, 378, 129, 14589, 23457, 378}
951:24	$0, 0, 0, 0, \frac{3}{37}\sqrt{30}e^{12}, \frac{6}{37}\sqrt{3}e^{13}, \frac{6}{37}e^{24}, \frac{3}{37}\sqrt{30}e^{34},$ $\frac{3}{37}\sqrt{26}e^{25} + \frac{12}{37}e^{36}$	$(\frac{3}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{9}{37})$ $+\frac{12}{37}e^1 \otimes e_7 + \frac{15}{37}\sqrt{2}e^2 \otimes e_8$	{129, 14589, 23457, 378, 129, 14589, 23457, 378}
951:24	$0, 0, 0, 0, -\frac{3}{17}\sqrt{10}e^{12}, \frac{2}{17}\sqrt{15}e^{13}, \frac{2}{17}\sqrt{10}e^{24}, \frac{1}{17}\sqrt{110}e^{34},$ $\frac{3}{17}\sqrt{10}e^{25} + \frac{2}{17}\sqrt{15}e^{36}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{5}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+\frac{5}{17}\sqrt{6}e^2 \otimes e_8$	{1234679, 129, 1356789, 14589, 23457, 256, 378, 468, 1234679, 129, 1356789, 14589, 23457, 256, 378, 468}
951:24	$0, 0, 0, 0, \frac{3}{17}\sqrt{10}e^{12}, \frac{2}{17}\sqrt{15}e^{13}, \frac{2}{17}\sqrt{10}e^{24}, \frac{1}{17}\sqrt{110}e^{34},$ $\frac{3}{17}\sqrt{10}e^{25} + \frac{2}{17}\sqrt{15}e^{36}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{5}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+\frac{5}{17}\sqrt{6}e^2 \otimes e_8$	{1234679, 129, 1356789, 14589, 23457, 256, 378, 468, 1234679, 129, 1356789, 14589, 23457, 256, 378, 468}
951:26	$0, 0, 0, 0, \frac{12}{2401}\sqrt{13155}e^{12}, \frac{36}{2401}\sqrt{2631}e^{13}, \frac{10}{2401}\sqrt{13155}e^{23},$ $\frac{4}{2401}\sqrt{149090}e^{14}, \frac{24}{2401}\sqrt{5262}e^{16} + \frac{2}{2401}\sqrt{44727}e^{25}$	$(\frac{705}{2401}, \frac{222}{2401}, -\frac{261}{2401}, -\frac{1049}{2401}, \frac{927}{2401}, \frac{444}{2401}, -\frac{39}{2401}, -\frac{344}{2401}, \frac{1149}{2401})$ $+\frac{2}{2401}\sqrt{1811005}e^1 \otimes e_4$	{126, 1567, 2345679, 3469}
951:26	$0, 0, 0, 0, \frac{52}{1221}\sqrt{30}e^{12}, \frac{26}{1221}\sqrt{61}e^{13}, \frac{26}{1221}\sqrt{154}e^{23}, \frac{26}{1221}\sqrt{197}e^{14},$ $\frac{13}{1221}\sqrt{158}e^{16} + \frac{13}{1221}\sqrt{358}e^{25}$	$(\frac{13}{111}, \frac{13}{407}, -\frac{65}{1221}, \frac{91}{1221}, \frac{182}{1221}, \frac{26}{1221}, -\frac{26}{1221}, -\frac{130}{1221}, \frac{221}{1221})$ $+\frac{13}{1221}\sqrt{1290}e^2 \otimes e_8 + \frac{13}{1221}\sqrt{910}e^1 \otimes e_7$	{123469, 2567}
951:26	$0, 0, 0, 0, \frac{17}{7741}\sqrt{4370}e^{12}, \frac{34}{7741}\sqrt{165}e^{13}, \frac{17}{7741}\sqrt{7618}e^{23},$ $\frac{34}{7741}\sqrt{1686}e^{14}, \frac{34}{7741}\sqrt{70}e^{16} + \frac{17}{7741}\sqrt{2342}e^{25}$	$(-\frac{561}{7741}, -\frac{17}{7741}, \frac{527}{7741}, \frac{799}{7741}, -\frac{578}{7741}, -\frac{34}{7741}, \frac{510}{7741}, \frac{238}{7741}, -\frac{595}{7741})$ $+\frac{34}{7741}\sqrt{1785}e^3 \otimes e_8 + \frac{51}{7741}\sqrt{830}e^4 \otimes e_7$	{125789, 357}
951:26	$0, 0, 0, 0, \frac{9}{1265}\sqrt{2730}e^{12}, \frac{18}{1265}\sqrt{10}e^{13}, \frac{18}{1265}\sqrt{690}e^{23}, \frac{9}{1265}\sqrt{4330}e^{14},$ $\frac{9}{1265}\sqrt{1390}e^{16} + \frac{18}{1265}\sqrt{10}e^{25}$	$(-\frac{54}{253}, \frac{9}{253}, \frac{72}{253}, \frac{45}{253}, -\frac{45}{253}, \frac{18}{253}, \frac{81}{253}, -\frac{9}{253}, -\frac{36}{253})$ $+\frac{9}{1265}\sqrt{6070}e^3 \otimes e_8 + \frac{9}{55}\sqrt{10}e^4 \otimes e_9$	{2369, 35679}
951:26	$0, 0, 0, 0, \frac{26}{3105}\sqrt{519}e^{12}, \frac{104}{3105}\sqrt{38}e^{13}, \frac{182}{3105}\sqrt{7}e^{23},$ $\frac{26}{3105}\sqrt{1230}e^{14}, \frac{104}{3105}\sqrt{31}e^{16} + \frac{26}{3105}\sqrt{1086}e^{25}$	$(-\frac{377}{3105}, \frac{26}{1035}, \frac{533}{3105}, \frac{13}{345}, -\frac{13}{135}, \frac{52}{1035}, \frac{611}{3105}, \frac{52}{621}, -\frac{221}{3105})$ $+\frac{26}{3105}\sqrt{1079}e^4 \otimes e_9 + \frac{26}{3105}\sqrt{1758}e^2 \otimes e_8$	{1356789, 468}
951:26	$0, 0, 0, 0, \frac{15}{242}\sqrt{6}e^{12}, \frac{3}{242}\sqrt{165}e^{13}, \frac{3}{121}\sqrt{93}e^{23}, \frac{3}{242}\sqrt{251}e^{14},$ $\frac{15}{121}\sqrt{2}e^{16} + \frac{3}{242}\sqrt{163}e^{25}$	$(\frac{9}{121}, \frac{3}{121}, -\frac{3}{121}, -\frac{21}{121}, \frac{12}{121}, \frac{6}{121}, 0, -\frac{12}{121}, \frac{15}{121})$ $+\frac{3}{242}\sqrt{430}e^3 \otimes e_8 + \frac{3}{242}\sqrt{455}e^1 \otimes e_7$	{123459, 2478}
951:26	$0, 0, 0, 0, \frac{14}{181}\sqrt{5}e^{12}, \frac{7}{543}\sqrt{255}e^{13}, \frac{14}{181}\sqrt{17}e^{23}, \frac{7}{543}\sqrt{771}e^{14},$ $\frac{7}{543}\sqrt{870}e^{16} + \frac{7}{543}\sqrt{57}e^{25}$	$(\frac{14}{181}, -\frac{7}{181}, -\frac{28}{181}, \frac{49}{181}, \frac{7}{181}, -\frac{14}{181}, -\frac{35}{181}, \frac{63}{181}, 0)$ $+\frac{7}{543}\sqrt{1290}e^4 \otimes e_9 + \frac{7}{543}\sqrt{1605}e^1 \otimes e_7$	{146, 35679}
951:26	$0, 0, 0, 0, \frac{117}{1213}\sqrt{30}e^{12}, \frac{13}{1213}\sqrt{1986}e^{13}, \frac{104}{1213}\sqrt{21}e^{23},$ $\frac{13}{1213}\sqrt{3102}e^{14}, \frac{26}{1213}\sqrt{618}e^{16} + \frac{13}{1213}\sqrt{2802}e^{25}$	$(-\frac{26}{1213}, \frac{117}{1213}, \frac{260}{1213}, -\frac{364}{1213}, \frac{91}{1213}, \frac{234}{1213}, \frac{377}{1213}, -\frac{390}{1213}, \frac{208}{1213})$ $+\frac{26}{1213}\sqrt{1590}e^2 \otimes e_8$	{123469, 1356789, 2567, 468}
951:26	$0, 0, 0, 0, \frac{328}{3893}\sqrt{3}e^{12}, \frac{82}{3893}\sqrt{582}e^{13}, \frac{82}{3893}\sqrt{219}e^{23},$ $\frac{41}{3893}\sqrt{118}e^{14}, \frac{41}{3893}\sqrt{1698}e^{16} + \frac{84}{3893}e^{25}$	$(\frac{246}{3893}, \frac{369}{3893}, \frac{492}{3893}, -\frac{1435}{3893}, \frac{615}{3893}, \frac{738}{3893}, \frac{861}{3893}, -\frac{1189}{3893}, \frac{984}{3893})$ $+\frac{41}{3893}\sqrt{3342}e^3 \otimes e_8 + \frac{41}{3893}\sqrt{3598}e^1 \otimes e_4$	{2478, 458}
951:26	$0, 0, 0, 0, \frac{2}{2529}\sqrt{288915}e^{12}, \frac{4}{2529}\sqrt{11330}e^{13}, \frac{22}{2529}\sqrt{103}e^{23},$ $\frac{2}{2529}\sqrt{904134}e^{14}, \frac{2}{2529}\sqrt{487190}e^{16} + \frac{4}{2529}\sqrt{197142}e^{25}$	$(-\frac{499}{2529}, -\frac{2}{281}, \frac{463}{2529}, \frac{577}{843}, -\frac{517}{2529}, -\frac{4}{281}, \frac{445}{2529}, \frac{1232}{2529}, -\frac{535}{2529})$ $+\frac{2}{2529}\sqrt{2373635}e^4 \otimes e_9$	{123456, 13467, 2679, 569}
951:26	$0, 0, 0, 0, \frac{2}{2461}\sqrt{648695}e^{12}, \frac{2}{2461}\sqrt{411945}e^{13}, \frac{2}{2461}\sqrt{936583}e^{23},$ $\frac{2}{2461}\sqrt{201711}e^{14}, \frac{2}{2461}\sqrt{146785}e^{16} + \frac{32}{2461}\sqrt{947}e^{25}$	$(-\frac{381}{2461}, \frac{328}{2461}, \frac{1037}{2461}, -\frac{476}{2461}, -\frac{53}{2461}, \frac{656}{2461}, \frac{1365}{2461}, -\frac{857}{2461}, \frac{275}{2461})$ $+\frac{2}{2461}\sqrt{1974495}e^3 \otimes e_8$	{123459, 13479, 2478, 458}
951:26	$0, 0, 0, 0, \frac{26}{1217}\sqrt{95}e^{12}, \frac{26}{1217}e^{13}, \frac{26}{1217}\sqrt{266}e^{23}, \frac{52}{1217}\sqrt{57}e^{14},$ $\frac{78}{1217}\sqrt{2}e^{16} + \frac{26}{1217}\sqrt{323}e^{25}$	$(-\frac{169}{1217}, \frac{78}{1217}, \frac{325}{1217}, -\frac{91}{1217}, -\frac{91}{1217}, \frac{156}{1217}, \frac{403}{1217}, -\frac{260}{1217}, -\frac{13}{1217})$ $-\frac{26}{1217}\sqrt{455}e^3 \otimes e_9 + \frac{650}{1217}e^2 \otimes e_8$	{124679, 15689, 2356, 34678}
951:26	$0, 0, 0, 0, \frac{26}{1217}\sqrt{95}e^{12}, \frac{26}{1217}e^{13}, \frac{26}{1217}\sqrt{266}e^{23}, \frac{52}{1217}\sqrt{57}e^{14},$ $\frac{78}{1217}\sqrt{2}e^{16} + \frac{26}{1217}\sqrt{323}e^{25}$	$(-\frac{169}{1217}, \frac{78}{1217}, \frac{325}{1217}, -\frac{91}{1217}, -\frac{91}{1217}, \frac{156}{1217}, \frac{403}{1217}, -\frac{260}{1217}, -\frac{13}{1217})$ $+\frac{26}{1217}\sqrt{455}e^3 \otimes e_9 + \frac{650}{1217}e^2 \otimes e_8$	{124679, 15689, 2356, 34678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:26	$0, 0, 0, 0, \frac{78}{865}\sqrt{30}e^{12}, \frac{156}{865}\sqrt{3}e^{13}, \frac{26}{865}\sqrt{93}e^{23}, \frac{52}{865}\sqrt{58}e^{14},$ $\frac{234}{865}\sqrt{2}e^{16} + \frac{26}{865}\sqrt{255}e^{25}$	$(\frac{39}{865}, \frac{78}{865}, \frac{117}{865}, -\frac{299}{865}, \frac{117}{865}, \frac{156}{865}, \frac{39}{173}, -\frac{52}{173}, \frac{39}{173})$ $+ \frac{338}{865}e^1 \otimes e_4 + \frac{78}{865}\sqrt{66}e^2 \otimes e_8$	{1356789, 468}
951:27	$0, 0, 0, 0, \frac{62}{3877}\sqrt{717}e^{12}, \frac{124}{3877}\sqrt{23}e^{13}, \frac{124}{3877}\sqrt{113}e^{23}, \frac{1364}{3877}e^{24},$ $\frac{31}{3877}\sqrt{354}e^{16} + \frac{31}{3877}\sqrt{1766}e^{25}$	$(\frac{713}{3877}, \frac{155}{3877}, -\frac{403}{3877}, -\frac{806}{3877}, \frac{868}{3877}, \frac{310}{3877}, -\frac{248}{3877}, -\frac{651}{3877}, \frac{1023}{3877})$ $+ \frac{31}{3877}\sqrt{2938}e^1 \otimes e_7 + \frac{31}{3877}\sqrt{4182}e^2 \otimes e_4$	{12369, 2567}
951:27	$0, 0, 0, 0, \frac{1}{607}\sqrt{170}e^{12}, \frac{2}{1821}\sqrt{195}e^{13}, \frac{1}{1821}\sqrt{1318}e^{23}, \frac{2}{1821}\sqrt{427}e^{24},$ $\frac{4}{607}\sqrt{7}e^{16} + \frac{1}{1821}\sqrt{1270}e^{25}$	$(-\frac{17}{1821}, -\frac{1}{1821}, \frac{5}{607}, \frac{5}{607}, -\frac{6}{607}, -\frac{2}{1821}, \frac{14}{1821}, \frac{14}{1821}, -\frac{19}{1821})$ $- \frac{1}{1821}\sqrt{1514}e^4 \otimes e_7 + \frac{4}{1821}\sqrt{119}e^3 \otimes e_8$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{1}{607}\sqrt{170}e^{12}, \frac{2}{1821}\sqrt{195}e^{13}, \frac{1}{1821}\sqrt{1318}e^{23}, \frac{2}{1821}\sqrt{427}e^{24},$ $\frac{4}{607}\sqrt{7}e^{16} + \frac{1}{1821}\sqrt{1270}e^{25}$	$(-\frac{17}{1821}, -\frac{1}{1821}, \frac{5}{607}, \frac{5}{607}, -\frac{6}{607}, -\frac{2}{1821}, \frac{14}{1821}, \frac{14}{1821}, -\frac{19}{1821})$ $+ \frac{1}{1821}\sqrt{1514}e^4 \otimes e_7 + \frac{4}{1821}\sqrt{119}e^3 \otimes e_8$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{205}{5137}\sqrt{42}e^{12}, \frac{41}{5137}\sqrt{1918}e^{13}, \frac{82}{5137}\sqrt{293}e^{23},$ $\frac{41}{5137}\sqrt{1994}e^{24}, \frac{123}{5137}\sqrt{438}e^{16} + \frac{41}{5137}\sqrt{502}e^{25}$	$(\frac{533}{5137}, -\frac{205}{5137}, -\frac{943}{5137}, \frac{164}{467}, \frac{328}{5137}, -\frac{410}{5137}, -\frac{1148}{5137}, \frac{1599}{5137}, \frac{123}{5137})$ $+ \frac{328}{5137}\sqrt{73}e^1 \otimes e_7 + \frac{41}{5137}\sqrt{4398}e^4 \otimes e_9$	{123589, 247}
951:27	$0, 0, 0, 0, \frac{8}{73}\sqrt{15}e^{12}, \frac{16}{73}\sqrt{3}e^{13}, \frac{8}{73}\sqrt{3}e^{23}, \frac{8}{73}\sqrt{10}e^{24},$ $\frac{24}{73}e^{16} + \frac{8}{73}\sqrt{6}e^{25}$	$(\frac{12}{73}, \frac{6}{73}, 0, -\frac{26}{73}, \frac{18}{73}, \frac{12}{73}, \frac{6}{73}, -\frac{20}{73}, \frac{24}{73})$ $+ \frac{40}{73}e^2 \otimes e_4 + \frac{8}{73}\sqrt{39}e^1 \otimes e_8$	{258, 478}
951:27	$0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{10}e^{13}, \frac{1}{10}\sqrt{2}e^{23}, \frac{3}{10}\sqrt{2}e^{24},$ $\frac{1}{10}\sqrt{14}e^{16} + \frac{1}{10}\sqrt{10}e^{25}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{10}\sqrt{14}e^4 \otimes e_7 + \frac{1}{10}\sqrt{22}e^1 \otimes e_8$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{10}e^{13}, \frac{1}{10}\sqrt{2}e^{23}, \frac{3}{10}\sqrt{2}e^{24},$ $\frac{1}{10}\sqrt{14}e^{16} + \frac{1}{10}\sqrt{10}e^{25}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $- \frac{1}{10}\sqrt{14}e^4 \otimes e_7 + \frac{1}{10}\sqrt{22}e^1 \otimes e_8$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{29}{5805}\sqrt{4298}e^{12}, \frac{116}{5805}\sqrt{205}e^{13}, \frac{58}{5805}\sqrt{354}e^{23},$ $\frac{29}{1935}\sqrt{598}e^{24}, \frac{29}{5805}\sqrt{3894}e^{16} + \frac{29}{5805}\sqrt{1654}e^{25}$	$(-\frac{899}{5805}, \frac{116}{5805}, \frac{377}{1935}, \frac{58}{1935}, -\frac{29}{215}, \frac{232}{5805}, \frac{29}{135}, \frac{58}{1161}, -\frac{667}{5805})$ $+ \frac{406}{5805}\sqrt{30}e^3 \otimes e_8 + \frac{58}{5805}\sqrt{1163}e^4 \otimes e_9$	{1379, 458}
951:27	$0, 0, 0, 0, \frac{9}{6805}\sqrt{1778}e^{12}, \frac{18}{6805}\sqrt{1005}e^{13}, \frac{36}{6805}\sqrt{129}e^{23},$ $\frac{9}{6805}\sqrt{6142}e^{24}, \frac{27}{6805}\sqrt{606}e^{16} + \frac{9}{6805}\sqrt{974}e^{25}$	$(\frac{261}{6805}, -\frac{54}{6805}, -\frac{369}{6805}, \frac{234}{6805}, \frac{207}{6805}, -\frac{108}{6805}, -\frac{423}{6805}, \frac{36}{1361}, \frac{153}{6805})$ $+ \frac{18}{1361}\sqrt{70}e^1 \otimes e_8 + \frac{36}{6805}\sqrt{337}e^4 \otimes e_9$	{139, 4578}
951:27	$0, 0, 0, 0, \frac{2}{783}\sqrt{6555}e^{12}, \frac{2}{783}\sqrt{49305}e^{13}, \frac{2}{783}\sqrt{68685}e^{23}, \frac{2}{783}\sqrt{285}e^{24},$ $\frac{2}{783}\sqrt{85215}e^{16} + \frac{2}{783}\sqrt{39045}e^{25}$	$(\frac{32}{87}, \frac{2}{783}, -\frac{284}{783}, \frac{43}{261}, \frac{10}{27}, \frac{4}{783}, -\frac{94}{261}, \frac{131}{783}, \frac{292}{783})$ $+ \frac{2}{783}\sqrt{186105}e^1 \otimes e_7$	{14568, 156, 346789, 3679}
951:27	$0, 0, 0, 0, \frac{1}{277}\sqrt{42330}e^{12}, \frac{6}{277}\sqrt{83}e^{13}, \frac{1}{277}\sqrt{54282}e^{23}, \frac{4}{277}\sqrt{3486}e^{24},$ $\frac{1}{277}\sqrt{8715}e^{16} + \frac{1}{277}\sqrt{6}e^{25}$	$(\frac{51}{277}, -\frac{11}{277}, -\frac{73}{277}, \frac{165}{277}, \frac{40}{277}, -\frac{22}{277}, -\frac{84}{277}, \frac{154}{277}, \frac{29}{277})$ $+ \frac{1}{277}\sqrt{117030}e^4 \otimes e_7$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{4}{2047}\sqrt{163590}e^{12}, \frac{12}{2047}\sqrt{6783}e^{13}, \frac{4}{2047}\sqrt{45087}e^{23},$ $\frac{4}{2047}\sqrt{108794}e^{24}, \frac{4}{2047}\sqrt{93765}e^{16} + \frac{4}{2047}\sqrt{143241}e^{25}$	$(\frac{126}{2047}, \frac{219}{2047}, \frac{312}{2047}, -\frac{845}{2047}, \frac{15}{89}, \frac{438}{2047}, \frac{531}{2047}, -\frac{626}{2047}, \frac{564}{2047})$ $+ \frac{28}{2047}\sqrt{5035}e^2 \otimes e_4$	{12369, 1345679, 2567, 46}
951:27	$0, 0, 0, 0, \frac{1}{585}\sqrt{121562}e^{12}, \frac{1}{585}\sqrt{86830}e^{13}, \frac{2}{195}\sqrt{1371}e^{23},$ $\frac{1}{585}\sqrt{216618}e^{24}, \frac{1}{585}\sqrt{200166}e^{16} + \frac{1}{585}\sqrt{55754}e^{25}$	$(-\frac{83}{585}, -\frac{1}{45}, \frac{19}{195}, \frac{116}{195}, -\frac{32}{195}, -\frac{2}{45}, \frac{44}{585}, \frac{67}{117}, -\frac{109}{585})$ $+ \frac{1}{585}\sqrt{445118}e^4 \otimes e_9$	{12456, 14678, 236789, 3569}
951:27	$0, 0, 0, 0, \frac{3}{566}\sqrt{17430}e^{12}, \frac{18}{283}\sqrt{105}e^{13}, \frac{3}{566}\sqrt{11690}e^{23}, \frac{15}{566}\sqrt{770}e^{24},$ $\frac{1}{566}\sqrt{11795}e^{16} + \frac{3}{566}\sqrt{12390}e^{25}$	$(-\frac{28}{283}, \frac{127}{1132}, \frac{183}{566}, -\frac{391}{1132}, \frac{15}{566}, \frac{127}{566}, \frac{493}{1132}, -\frac{66}{283}, \frac{71}{566})$ $+ \frac{21}{566}\sqrt{695}e^3 \otimes e_8$	{123459, 1379, 278, 458}
951:27	$0, 0, 0, 0, \frac{2}{293}\sqrt{685}e^{12}, \frac{3}{293}\sqrt{3562}e^{13}, \frac{4}{293}\sqrt{822}e^{23}, \frac{3}{293}\sqrt{4110}e^{24},$ $\frac{1}{293}\sqrt{32606}e^{16} + \frac{6}{293}\sqrt{411}e^{25}$	$(\frac{67}{293}, \frac{21}{293}, -\frac{25}{293}, -\frac{91}{293}, \frac{88}{293}, \frac{42}{293}, -\frac{4}{293}, -\frac{70}{293}, \frac{109}{293})$ $+ \frac{1}{293}\sqrt{68226}e^1 \otimes e_8$	{1234579, 139, 28, 4578}
951:27	$0, 0, 0, 0, \frac{5}{1193}\sqrt{2870}e^{12}, \frac{20}{1193}\sqrt{230}e^{13}, \frac{20}{1193}\sqrt{235}e^{23},$ $\frac{5}{1193}\sqrt{3130}e^{24}, \frac{10}{1193}\sqrt{1015}e^{16} + \frac{5}{1193}\sqrt{3290}e^{25}$	$(\frac{115}{1193}, \frac{35}{1193}, -\frac{45}{1193}, -\frac{205}{1193}, \frac{150}{1193}, \frac{70}{1193}, -\frac{10}{1193}, -\frac{170}{1193}, \frac{185}{1193})$ $+ \frac{10}{1193}\sqrt{1235}e^1 \otimes e_7 + \frac{5}{1193}\sqrt{5910}e^3 \otimes e_8$	{123459, 278}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:28	$0, 0, 0, 0, -\frac{13}{457}\sqrt{37}e^{12}, \frac{13}{457}\sqrt{37}e^{13}, \frac{26}{457}\sqrt{14}e^{23}, \frac{26}{457}\sqrt{70}e^{14},$ $\frac{143}{457}e^{25} + \frac{143}{457}e^{36}$	$(\frac{65}{457}, -\frac{52}{457}, -\frac{52}{457}, \frac{130}{457}, \frac{13}{457}, \frac{13}{457}, -\frac{104}{457}, \frac{195}{457}, -\frac{39}{457})$ $+\frac{13}{457}\sqrt{374}e^1 \otimes e_7 + \frac{13}{457}\sqrt{430}e^4 \otimes e_9$	{12389, 15689, 24578, 12389, 15689, 24578}
951:28	$0, 0, 0, 0, \frac{13}{457}\sqrt{37}e^{12}, \frac{13}{457}\sqrt{37}e^{13}, \frac{26}{457}\sqrt{14}e^{23}, \frac{26}{457}\sqrt{70}e^{14},$ $\frac{143}{457}e^{25} + \frac{143}{457}e^{36}$	$(\frac{65}{457}, -\frac{52}{457}, -\frac{52}{457}, \frac{130}{457}, \frac{13}{457}, \frac{13}{457}, -\frac{104}{457}, \frac{195}{457}, -\frac{39}{457})$ $+\frac{13}{457}\sqrt{374}e^1 \otimes e_7 + \frac{13}{457}\sqrt{430}e^4 \otimes e_9$	{12389, 15689, 24578, 12389, 15689, 24578}
951:28	$0, 0, 0, 0, -\frac{1}{197}\sqrt{8178}e^{12}, \frac{1}{197}\sqrt{8178}e^{13}, \frac{2}{197}\sqrt{4611}e^{23}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{3}{197}\sqrt{174}e^{25} + \frac{3}{197}\sqrt{174}e^{36}$	$(\frac{100}{197}, -\frac{37}{197}, -\frac{37}{197}, -\frac{15}{197}, \frac{63}{197}, \frac{63}{197}, -\frac{74}{197}, \frac{85}{197}, \frac{26}{197})$ $+\frac{18}{197}\sqrt{174}e^1 \otimes e_7$	{1234, 1238, 1456, 1568, 245789, 2579, 1234, 1238, 1456, 1568, 245789, 2579}
951:28	$0, 0, 0, 0, \frac{1}{197}\sqrt{8178}e^{12}, \frac{1}{197}\sqrt{8178}e^{13}, \frac{2}{197}\sqrt{4611}e^{23}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{3}{197}\sqrt{174}e^{25} + \frac{3}{197}\sqrt{174}e^{36}$	$(\frac{100}{197}, -\frac{37}{197}, -\frac{37}{197}, -\frac{15}{197}, \frac{63}{197}, \frac{63}{197}, -\frac{74}{197}, \frac{85}{197}, \frac{26}{197})$ $+\frac{18}{197}\sqrt{174}e^1 \otimes e_7$	{1234, 1238, 1456, 1568, 245789, 2579, 1234, 1238, 1456, 1568, 245789, 2579}
951:28	$0, 0, 0, 0, -\frac{345}{1301}\sqrt{3}e^{12}, \frac{23}{1301}\sqrt{57}e^{13}, \frac{138}{1301}\sqrt{7}e^{23}, \frac{23}{1301}\sqrt{382}e^{14},$ $\frac{23}{1301}\sqrt{561}e^{25} + \frac{69}{1301}\sqrt{19}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, \frac{276}{1301}, -\frac{391}{1301}, \frac{345}{1301})$ $+\frac{23}{1301}\sqrt{838}e^1 \otimes e_4 + \frac{46}{1301}\sqrt{366}e^2 \otimes e_8$	{1356789, 1589, 3478, 468, 1356789, 1589, 3478, 468}
951:28	$0, 0, 0, 0, \frac{345}{1301}\sqrt{3}e^{12}, \frac{23}{1301}\sqrt{57}e^{13}, \frac{138}{1301}\sqrt{7}e^{23}, \frac{23}{1301}\sqrt{382}e^{14},$ $\frac{23}{1301}\sqrt{561}e^{25} + \frac{69}{1301}\sqrt{19}e^{36}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{207}{1301}, \frac{276}{1301}, -\frac{391}{1301}, \frac{345}{1301})$ $+\frac{23}{1301}\sqrt{838}e^1 \otimes e_4 + \frac{46}{1301}\sqrt{366}e^2 \otimes e_8$	{1356789, 1589, 3478, 468, 1356789, 1589, 3478, 468}
951:28	$0, 0, 0, 0, -\frac{3}{187}\sqrt{2685}e^{12}, \frac{3}{187}\sqrt{2685}e^{13}, \frac{4}{187}\sqrt{1074}e^{23}, \frac{1}{187}\sqrt{12530}e^{14},$ $\frac{1}{187}\sqrt{6981}e^{25} + \frac{1}{187}\sqrt{6981}e^{36}$	$(\frac{87}{187}, -\frac{9}{187}, -\frac{9}{187}, -\frac{92}{187}, \frac{78}{187}, \frac{78}{187}, -\frac{18}{187}, -\frac{5}{187}, \frac{69}{187})$ $+\frac{1}{187}\sqrt{56206}e^1 \otimes e_4$	{12379, 1269, 15679, 234567, 245, 47, 12379, 1269, 15679, 234567, 245, 47}
951:28	$0, 0, 0, 0, \frac{3}{187}\sqrt{2685}e^{12}, \frac{3}{187}\sqrt{2685}e^{13}, \frac{4}{187}\sqrt{1074}e^{23}, \frac{1}{187}\sqrt{12530}e^{14},$ $\frac{1}{187}\sqrt{6981}e^{25} + \frac{1}{187}\sqrt{6981}e^{36}$	$(\frac{87}{187}, -\frac{9}{187}, -\frac{9}{187}, -\frac{92}{187}, \frac{78}{187}, \frac{78}{187}, -\frac{18}{187}, -\frac{5}{187}, \frac{69}{187})$ $+\frac{1}{187}\sqrt{56206}e^1 \otimes e_4$	{12379, 1269, 15679, 234567, 245, 47, 12379, 1269, 15679, 234567, 245, 47}
951:28	$0, 0, 0, 0, -\frac{5}{176}\sqrt{410}e^{12}, \frac{5}{176}\sqrt{410}e^{13}, \frac{15}{176}\sqrt{110}e^{23}, \frac{5}{88}\sqrt{215}e^{14},$ $\frac{5}{176}\sqrt{195}e^{25} + \frac{5}{176}\sqrt{195}e^{36}$	$(\frac{17}{176}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, \frac{1}{352}, \frac{1}{352}, -\frac{35}{176}, \frac{107}{176}, -\frac{9}{88})$ $+\frac{25}{176}\sqrt{62}e^4 \otimes e_7$	{1234569, 125789, 149, 2348, 267, 4568, 1234569, 125789, 149, 2348, 267, 4568}
951:28	$0, 0, 0, 0, \frac{5}{176}\sqrt{410}e^{12}, \frac{5}{176}\sqrt{410}e^{13}, \frac{15}{176}\sqrt{110}e^{23}, \frac{5}{88}\sqrt{215}e^{14},$ $\frac{5}{176}\sqrt{195}e^{25} + \frac{5}{176}\sqrt{195}e^{36}$	$(\frac{17}{176}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, \frac{1}{352}, \frac{1}{352}, -\frac{35}{176}, \frac{107}{176}, -\frac{9}{88})$ $+\frac{25}{176}\sqrt{62}e^4 \otimes e_7$	{1234569, 125789, 149, 2348, 267, 4568, 1234569, 125789, 149, 2348, 267, 4568}
951:28	$0, 0, 0, 0, -\frac{1}{36}\sqrt{46}e^{12}, \frac{1}{18}\sqrt{7}e^{13}, \frac{1}{18}\sqrt{22}e^{23}, \frac{1}{12}\sqrt{10}e^{14},$ $\frac{1}{18}\sqrt{10}e^{25} + \frac{1}{36}\sqrt{34}e^{36}$	$(\frac{1}{9}, 0, 0, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9})$ $+\frac{1}{18}\sqrt{37}e^2 \otimes e_8 + \frac{1}{36}\sqrt{114}e^1 \otimes e_7$	{123469, 1589, 2567, 3478, 123469, 1589, 2567, 3478}
951:28	$0, 0, 0, 0, \frac{1}{36}\sqrt{46}e^{12}, \frac{1}{18}\sqrt{7}e^{13}, \frac{1}{18}\sqrt{22}e^{23}, \frac{1}{12}\sqrt{10}e^{14},$ $\frac{1}{18}\sqrt{10}e^{25} + \frac{1}{36}\sqrt{34}e^{36}$	$(\frac{1}{9}, 0, 0, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9})$ $+\frac{1}{18}\sqrt{37}e^2 \otimes e_8 + \frac{1}{36}\sqrt{114}e^1 \otimes e_7$	{123469, 1589, 2567, 3478, 123469, 1589, 2567, 3478}
951:28	$0, 0, 0, 0, -\frac{1}{765}\sqrt{133354}e^{12}, \frac{1}{765}\sqrt{157438}e^{13}, \frac{2}{765}\sqrt{51067}e^{23},$ $\frac{4}{765}\sqrt{14718}e^{14}, \frac{1}{765}\sqrt{192226}e^{25} + \frac{1}{765}\sqrt{98566}e^{36}$	$(-\frac{124}{765}, \frac{19}{85}, \frac{19}{85}, -\frac{151}{765}, \frac{47}{765}, \frac{47}{765}, \frac{38}{85}, -\frac{55}{153}, \frac{218}{765})$ $+\frac{4}{765}\sqrt{36349}e^2 \otimes e_8$	{123469, 12479, 1356789, 1589, 235, 2567, 3478, 468, 123469, 12479, 1356789, 1589, 235, 2567, 3478, 468}
951:28	$0, 0, 0, 0, \frac{1}{765}\sqrt{133354}e^{12}, \frac{1}{765}\sqrt{157438}e^{13}, \frac{2}{765}\sqrt{51067}e^{23},$ $\frac{4}{765}\sqrt{14718}e^{14}, \frac{1}{765}\sqrt{192226}e^{25} + \frac{1}{765}\sqrt{98566}e^{36}$	$(-\frac{124}{765}, \frac{19}{85}, \frac{19}{85}, -\frac{151}{765}, \frac{47}{765}, \frac{47}{765}, \frac{38}{85}, -\frac{55}{153}, \frac{218}{765})$ $+\frac{4}{765}\sqrt{36349}e^2 \otimes e_8$	{123469, 12479, 1356789, 1589, 235, 2567, 3478, 468, 123469, 12479, 1356789, 1589, 235, 2567, 3478, 468}
951:28	$0, 0, 0, 0, -\frac{1}{196}\sqrt{745}e^{12}, \frac{1}{196}\sqrt{745}e^{13}, \frac{1}{49}\sqrt{447}e^{23}, \frac{1}{196}\sqrt{19966}e^{14},$ $\frac{1}{196}\sqrt{16390}e^{25} + \frac{1}{196}\sqrt{16390}e^{36}$	$(-\frac{29}{196}, \frac{9}{392}, \frac{9}{392}, \frac{129}{196}, -\frac{1}{8}, -\frac{1}{8}, \frac{9}{196}, \frac{25}{49}, -\frac{5}{49})$ $+\frac{1}{196}\sqrt{48574}e^4 \otimes e_9$	{1234567, 1245, 147, 2379, 269, 5679, 1234567, 1245, 147, 2379, 269, 5679}
951:28	$0, 0, 0, 0, \frac{1}{196}\sqrt{745}e^{12}, \frac{1}{196}\sqrt{745}e^{13}, \frac{1}{49}\sqrt{447}e^{23}, \frac{1}{196}\sqrt{19966}e^{14},$ $\frac{1}{196}\sqrt{16390}e^{25} + \frac{1}{196}\sqrt{16390}e^{36}$	$(-\frac{29}{196}, \frac{9}{392}, \frac{9}{392}, \frac{129}{196}, -\frac{1}{8}, -\frac{1}{8}, \frac{9}{196}, \frac{25}{49}, -\frac{5}{49})$ $+\frac{1}{196}\sqrt{48574}e^4 \otimes e_9$	{1234567, 1245, 147, 2379, 269, 5679, 1234567, 1245, 147, 2379, 269, 5679}
951:30	$0, 0, 0, 0, \frac{24}{2681}\sqrt{3255}e^{12}, \frac{72}{2681}\sqrt{465}e^{13}, \frac{18}{2681}\sqrt{6603}e^{23},$ $\frac{12}{2681}\sqrt{21390}e^{24}, \frac{180}{2681}\sqrt{62}e^{15} + \frac{6}{2681}\sqrt{14973}e^{36}$	$(\frac{801}{2681}, -\frac{397}{2681}, \frac{202}{2681}, -\frac{68}{383}, \frac{404}{2681}, \frac{1003}{2681}, -\frac{195}{2681}, -\frac{873}{2681}, \frac{1205}{2681})$ $+\frac{6}{2681}\sqrt{208041}e^1 \otimes e_8$	{123479, 12469, 3468, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:30	$0, 0, 0, 0, \frac{20}{883}\sqrt{953}e^{12}, \frac{2}{2649}\sqrt{178211}e^{13}, \frac{2}{2649}\sqrt{519385}e^{23},$ $\frac{2}{883}\sqrt{116266}e^{24}, \frac{4}{2649}\sqrt{124843}e^{15} + \frac{2}{2649}\sqrt{848170}e^{36}$	$(-\frac{57}{883}, -\frac{13}{2649}, -\frac{92}{2649}, \frac{517}{883}, -\frac{184}{2649}, -\frac{263}{2649}, -\frac{35}{883}, \frac{1538}{2649}, -\frac{355}{2649})$ $+\frac{94}{2649}\sqrt{953}e^4 \otimes e_9$	{139, 1679, 23467, 24}
951:30	$0, 0, 0, 0, \frac{2}{319}\sqrt{9159}e^{12}, \frac{6}{319}\sqrt{71}e^{13}, \frac{12}{319}\sqrt{355}e^{23}, \frac{1}{319}\sqrt{22578}e^{24},$ $\frac{1}{319}\sqrt{55806}e^{15} + \frac{12}{319}\sqrt{7242}e^{36}$	$(\frac{108}{319}, -\frac{106}{319}, \frac{1}{319}, \frac{100}{319}, \frac{2}{319}, \frac{109}{319}, -\frac{105}{319}, -\frac{6}{319}, \frac{10}{29})$ $+\frac{4}{319}\sqrt{7242}e^1 \otimes e_7$	{1234689, 12369, 347, 378}
951:30	$0, 0, 0, 0, \frac{6}{2413}\sqrt{106685}e^{12}, \frac{2}{2413}\sqrt{764763}e^{13}, \frac{18}{2413}\sqrt{14599}e^{23},$ $\frac{4}{2413}\sqrt{147113}e^{24}, \frac{2}{2413}\sqrt{528933}e^{15} + \frac{12}{2413}\sqrt{12353}e^{36}$	$(-\frac{309}{2413}, \frac{1029}{2413}, \frac{360}{2413}, \frac{1217}{2413}, \frac{720}{2413}, \frac{51}{2413}, \frac{1389}{2413}, -\frac{188}{2413}, \frac{411}{2413})$ $+\frac{2}{2413}\sqrt{2332471}e^2 \otimes e_4$	{12369, 1279, 347, 46}
951:30	$0, 0, 0, 0, \frac{14}{971}\sqrt{313}e^{12}, \frac{28}{971}\sqrt{42}e^{13}, \frac{14}{971}\sqrt{427}e^{23}, \frac{14}{971}\sqrt{227}e^{24},$ $\frac{28}{971}\sqrt{79}e^{15} + \frac{28}{971}\sqrt{57}e^{36}$	$(\frac{91}{971}, -\frac{35}{971}, \frac{28}{971}, -\frac{133}{971}, \frac{56}{971}, \frac{119}{971}, -\frac{7}{971}, -\frac{168}{971}, \frac{147}{971})$ $+\frac{14}{971}\sqrt{419}e^2 \otimes e_4 + \frac{14}{971}\sqrt{493}e^1 \otimes e_7$	{12369, 347}
951:30	$0, 0, 0, 0, \frac{387}{4481}\sqrt{30}e^{12}, \frac{43}{4481}\sqrt{390}e^{13}, \frac{258}{4481}\sqrt{7}e^{23},$ $\frac{43}{4481}\sqrt{1030}e^{24}, \frac{344}{4481}\sqrt{30}e^{15} + \frac{129}{4481}\sqrt{42}e^{36}$	$(\frac{516}{4481}, \frac{258}{4481}, \frac{387}{4481}, -\frac{1591}{4481}, \frac{774}{4481}, \frac{903}{4481}, \frac{645}{4481}, -\frac{1333}{4481}, \frac{1290}{4481})$ $+\frac{129}{4481}\sqrt{526}e^1 \otimes e_8 + \frac{43}{4481}\sqrt{3190}e^2 \otimes e_4$	{235689, 25789}
951:30	$0, 0, 0, 0, \frac{420}{1063}e^{12}, \frac{56}{1063}\sqrt{123}e^{13}, \frac{84}{1063}e^{23}, \frac{28}{1063}\sqrt{406}e^{24},$ $\frac{28}{1063}\sqrt{258}e^{15} + \frac{28}{1063}\sqrt{417}e^{36}$	$(\frac{126}{1063}, \frac{42}{1063}, \frac{84}{1063}, -\frac{350}{1063}, \frac{168}{1063}, \frac{210}{1063}, \frac{126}{1063}, -\frac{308}{1063}, \frac{294}{1063})$ $+\frac{28}{1063}\sqrt{79}e^2 \otimes e_4 + \frac{28}{1063}\sqrt{849}e^3 \otimes e_8$	{125689, 4578}
951:30	$0, 0, 0, 0, \frac{240}{1597}\sqrt{3}e^{12}, \frac{15}{1597}\sqrt{1086}e^{13}, \frac{60}{1597}\sqrt{17}e^{23},$ $\frac{15}{1597}\sqrt{1230}e^{24}, \frac{60}{1597}\sqrt{34}e^{15} + \frac{15}{1597}\sqrt{830}e^{36}$	$(\frac{255}{1597}, -\frac{225}{1597}, \frac{15}{1597}, \frac{15}{1597}, \frac{30}{1597}, \frac{270}{1597}, -\frac{210}{1597}, -\frac{210}{1597}, \frac{285}{1597})$ $+\frac{15}{1597}\sqrt{1934}e^3 \otimes e_8 + \frac{60}{1597}\sqrt{61}e^4 \otimes e_7$	{123459, 1256789, 3567, 458}
951:30	$0, 0, 0, 0, \frac{240}{1597}\sqrt{3}e^{12}, \frac{15}{1597}\sqrt{1086}e^{13}, \frac{60}{1597}\sqrt{17}e^{23},$ $\frac{15}{1597}\sqrt{1230}e^{24}, \frac{60}{1597}\sqrt{34}e^{15} + \frac{15}{1597}\sqrt{830}e^{36}$	$(\frac{255}{1597}, -\frac{225}{1597}, \frac{15}{1597}, \frac{15}{1597}, \frac{30}{1597}, \frac{270}{1597}, -\frac{210}{1597}, -\frac{210}{1597}, \frac{285}{1597})$ $+\frac{15}{1597}\sqrt{1934}e^3 \otimes e_8 - \frac{60}{1597}\sqrt{61}e^4 \otimes e_7$	{123459, 1256789, 3567, 458}
951:30	$0, 0, 0, 0, \frac{4}{1283}\sqrt{20118}e^{12}, \frac{1}{1283}\sqrt{652398}e^{13}, \frac{8}{1283}\sqrt{958}e^{23},$ $\frac{1}{1283}\sqrt{537438}e^{24}, \frac{12}{1283}\sqrt{2395}e^{15} + \frac{1}{1283}\sqrt{545102}e^{36}$	$(\frac{185}{1283}, \frac{9}{1283}, \frac{97}{1283}, -\frac{391}{1283}, \frac{194}{1283}, \frac{282}{1283}, \frac{106}{1283}, -\frac{382}{1283}, \frac{379}{1283})$ $+\frac{1}{1283}\sqrt{1066254}e^3 \otimes e_8$	{1234579, 125689, 356, 4578}
951:30	$0, 0, 0, 0, \frac{6}{421}\sqrt{1349}e^{12}, \frac{2}{1263}\sqrt{39121}e^{13}, \frac{2}{1263}\sqrt{283290}e^{23},$ $\frac{1}{1263}\sqrt{903830}e^{24}, \frac{1}{1263}\sqrt{342646}e^{15} + \frac{4}{1263}\sqrt{18886}e^{36}$	$(\frac{304}{1263}, -\frac{382}{1263}, -\frac{13}{421}, \frac{928}{1263}, -\frac{26}{421}, \frac{265}{1263}, -\frac{1}{3}, \frac{182}{421}, \frac{226}{1263})$ $+\frac{2}{1263}\sqrt{709574}e^4 \otimes e_7$	{13679, 1489, 234, 2678}
951:30	$0, 0, 0, 0, \frac{22}{2153}\sqrt{51}e^{12}, \frac{22}{2153}\sqrt{399}e^{13}, \frac{44}{2153}\sqrt{38}e^{23}, \frac{132}{2153}\sqrt{19}e^{24},$ $\frac{22}{2153}\sqrt{6}e^{15} + \frac{22}{2153}\sqrt{665}e^{36}$	$(-\frac{121}{2153}, \frac{297}{2153}, \frac{88}{2153}, -\frac{451}{2153}, \frac{176}{2153}, -\frac{33}{2153}, \frac{385}{2153}, -\frac{154}{2153}, \frac{55}{2153})$ $-\frac{22}{2153}\sqrt{849}e^2 \otimes e_9 + \frac{66}{2153}\sqrt{119}e^3 \otimes e_8$	{1379, 14689, 2346, 278}
951:30	$0, 0, 0, 0, \frac{22}{2153}\sqrt{51}e^{12}, \frac{22}{2153}\sqrt{399}e^{13}, \frac{44}{2153}\sqrt{38}e^{23}, \frac{132}{2153}\sqrt{19}e^{24},$ $\frac{22}{2153}\sqrt{6}e^{15} + \frac{22}{2153}\sqrt{665}e^{36}$	$(-\frac{121}{2153}, \frac{297}{2153}, \frac{88}{2153}, -\frac{451}{2153}, \frac{176}{2153}, -\frac{33}{2153}, \frac{385}{2153}, -\frac{154}{2153}, \frac{55}{2153})$ $+\frac{22}{2153}\sqrt{849}e^2 \otimes e_9 + \frac{66}{2153}\sqrt{119}e^3 \otimes e_8$	{1379, 14689, 2346, 278}
951:30	$0, 0, 0, 0, \frac{28}{173}\sqrt{2}e^{12}, \frac{7}{173}\sqrt{122}e^{13}, \frac{28}{173}\sqrt{2}e^{23}, \frac{7}{173}\sqrt{82}e^{24},$ $\frac{14}{173}\sqrt{5}e^{15} + \frac{7}{173}\sqrt{78}e^{36}$	$(\frac{35}{173}, -\frac{21}{173}, \frac{7}{173}, -\frac{21}{173}, \frac{14}{173}, \frac{42}{173}, -\frac{14}{173}, -\frac{42}{173}, \frac{49}{173})$ $+\frac{70}{173}e^1 \otimes e_7 + \frac{7}{173}\sqrt{206}e^3 \otimes e_8$	{123459, 3567}
951:30	$0, 0, 0, 0, \frac{160}{533}e^{12}, \frac{10}{533}\sqrt{34}e^{13}, \frac{20}{533}\sqrt{53}e^{23}, \frac{10}{533}\sqrt{226}e^{24},$ $\frac{10}{533}\sqrt{670}e^{15} + \frac{20}{533}\sqrt{22}e^{36}$	$(\frac{70}{533}, -\frac{110}{533}, -\frac{20}{533}, \frac{230}{533}, -\frac{40}{533}, \frac{50}{533}, -\frac{10}{533}, \frac{120}{533}, \frac{30}{533})$ $+\frac{10}{533}\sqrt{986}e^1 \otimes e_7 + \frac{20}{533}\sqrt{223}e^4 \otimes e_9$	{12389, 34678}
951:30	$0, 0, 0, 0, \frac{188}{5821}\sqrt{55}e^{12}, \frac{611}{5821}\sqrt{10}e^{13}, \frac{47}{5821}\sqrt{278}e^{23},$ $\frac{188}{5821}\sqrt{230}e^{24}, \frac{94}{5821}\sqrt{515}e^{15} + \frac{47}{5821}\sqrt{138}e^{36}$	$(\frac{1551}{5821}, \frac{1457}{5821}, \frac{47}{5821}, \frac{799}{5821}, \frac{94}{5821}, \frac{1598}{5821}, -\frac{1410}{5821}, -\frac{658}{5821}, \frac{1645}{5821})$ $+\frac{47}{5821}\sqrt{3910}e^4 \otimes e_7 + \frac{94}{5821}\sqrt{1591}e^1 \otimes e_8$	{1567, 2356789}
951:30	$0, 0, 0, 0, \frac{12}{3305}\sqrt{157}e^{12}, \frac{6}{3305}\sqrt{1139}e^{13}, \frac{6}{3305}\sqrt{417}e^{23}, \frac{6}{661}\sqrt{58}e^{24},$ $\frac{12}{3305}\sqrt{79}e^{15} + \frac{6}{3305}\sqrt{1346}e^{36}$	$(\frac{93}{3305}, -\frac{117}{3305}, \frac{12}{3305}, \frac{87}{3305}, -\frac{24}{3305}, \frac{81}{3305}, -\frac{129}{3305}, -\frac{6}{661}, \frac{69}{3305})$ $+\frac{12}{3305}\sqrt{442}e^3 \otimes e_8 + \frac{6}{3305}\sqrt{1249}e^4 \otimes e_9$	{125689, 4578}
951:30	$0, 0, 0, 0, \frac{10}{309}\sqrt{13}e^{12}, \frac{1}{309}\sqrt{2630}e^{13}, \frac{4}{309}\sqrt{235}e^{23}, \frac{1}{309}\sqrt{5970}e^{24},$ $\frac{1}{309}\sqrt{3310}e^{15} + \frac{17}{309}\sqrt{10}e^{36}$	$(\frac{10}{103}, -\frac{40}{309}, -\frac{5}{309}, \frac{15}{103}, -\frac{10}{309}, \frac{25}{309}, -\frac{15}{103}, \frac{5}{309}, \frac{20}{309})$ $+\frac{1}{309}\sqrt{6710}e^4 \otimes e_9 + \frac{17}{309}\sqrt{7230}e^1 \otimes e_8$	{3468, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:31	$0, 0, 0, 0, -\frac{136}{1405}\sqrt{6}e^{12}, \frac{17}{1405}\sqrt{926}e^{13}, \frac{68}{1405}\sqrt{26}e^{23},$ $\frac{17}{1405}\sqrt{862}e^{24}, \frac{408}{1405}e^{25} + \frac{17}{1405}\sqrt{734}e^{36}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{34}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+ \frac{17}{1405}\sqrt{1758}e^3 \otimes e_8 + \frac{272}{1405}\sqrt{3}e^1 \otimes e_7$	{123459, 14689, 278, 3567, 123459, 14689, 278, 3567}
951:31	$0, 0, 0, 0, \frac{136}{1405}\sqrt{6}e^{12}, \frac{17}{1405}\sqrt{926}e^{13}, \frac{68}{1405}\sqrt{26}e^{23}, \frac{17}{1405}\sqrt{862}e^{24},$ $\frac{408}{1405}e^{25} + \frac{17}{1405}\sqrt{734}e^{36}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{34}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+ \frac{17}{1405}\sqrt{1758}e^3 \otimes e_8 + \frac{272}{1405}\sqrt{3}e^1 \otimes e_7$	{123459, 14689, 278, 3567, 123459, 14689, 278, 3567}
951:31	$0, 0, 0, 0, -\frac{2}{161}\sqrt{2310}e^{12}, \frac{1}{161}\sqrt{330}e^{13}, \frac{55}{161}\sqrt{6}e^{23}, \frac{18}{161}\sqrt{55}e^{24},$ $\frac{2}{161}\sqrt{2310}e^{25} + \frac{1}{161}\sqrt{330}e^{36}$	$(\frac{53}{161}, -\frac{29}{161}, -\frac{29}{161}, \frac{107}{161}, \frac{24}{161}, \frac{24}{161}, -\frac{58}{161}, \frac{78}{161}, -\frac{5}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_7$	{1234569, 125789, 13679, 1489, 234, 2678, 357, 4568, 1234569, 125789, 13679, 1489, 234, 2678, 357, 4568}
951:31	$0, 0, 0, 0, \frac{2}{161}\sqrt{2310}e^{12}, \frac{1}{161}\sqrt{330}e^{13}, \frac{55}{161}\sqrt{6}e^{23}, \frac{18}{161}\sqrt{55}e^{24},$ $\frac{2}{161}\sqrt{2310}e^{25} + \frac{1}{161}\sqrt{330}e^{36}$	$(\frac{53}{161}, -\frac{29}{161}, -\frac{29}{161}, \frac{107}{161}, \frac{24}{161}, \frac{24}{161}, -\frac{58}{161}, \frac{78}{161}, -\frac{5}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_7$	{1234569, 125789, 13679, 1489, 234, 2678, 357, 4568, 1234569, 125789, 13679, 1489, 234, 2678, 357, 4568}
951:31	$0, 0, 0, 0, -\frac{6}{325}\sqrt{69}e^{12}, \frac{18}{325}\sqrt{29}e^{13}, \frac{18}{325}\sqrt{35}e^{23}, \frac{48}{325}\sqrt{6}e^{24},$ $\frac{6}{325}\sqrt{69}e^{25} + \frac{18}{325}\sqrt{29}e^{36}$	$(\frac{69}{325}, -\frac{36}{325}, -\frac{36}{325}, \frac{51}{325}, \frac{33}{325}, \frac{33}{325}, -\frac{72}{325}, \frac{3}{65}, -\frac{3}{325})$ $+ \frac{6}{325}\sqrt{438}e^1 \otimes e_8 + \frac{6}{325}\sqrt{438}e^4 \otimes e_9$	{1359, 15679, 3468, 478, 1359, 15679, 3468, 478}
951:31	$0, 0, 0, 0, \frac{6}{325}\sqrt{69}e^{12}, \frac{18}{325}\sqrt{29}e^{13}, \frac{18}{325}\sqrt{35}e^{23}, \frac{48}{325}\sqrt{6}e^{24},$ $\frac{6}{325}\sqrt{69}e^{25} + \frac{18}{325}\sqrt{29}e^{36}$	$(\frac{69}{325}, -\frac{36}{325}, -\frac{36}{325}, \frac{51}{325}, \frac{33}{325}, \frac{33}{325}, -\frac{72}{325}, \frac{3}{65}, -\frac{3}{325})$ $+ \frac{6}{325}\sqrt{438}e^1 \otimes e_8 + \frac{6}{325}\sqrt{438}e^4 \otimes e_9$	{1359, 15679, 3468, 478, 1359, 15679, 3468, 478}
951:31	$0, 0, 0, 0, -\frac{2}{17}\sqrt{39}e^{12}, \frac{2}{17}\sqrt{39}e^{13}, \frac{2}{17}\sqrt{6}e^{23}, \frac{4}{17}\sqrt{13}e^{24},$ $\frac{2}{17}\sqrt{39}e^{25} + \frac{2}{17}\sqrt{39}e^{36}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{38}e^2 \otimes e_4 + \frac{2}{17}\sqrt{66}e^3 \otimes e_8$	{1234579, 139, 23467, 356, 1234579, 139, 23467, 356}
951:31	$0, 0, 0, 0, \frac{2}{17}\sqrt{39}e^{12}, \frac{2}{17}\sqrt{39}e^{13}, \frac{2}{17}\sqrt{6}e^{23}, \frac{4}{17}\sqrt{13}e^{24},$ $\frac{2}{17}\sqrt{39}e^{25} + \frac{2}{17}\sqrt{39}e^{36}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{38}e^2 \otimes e_4 + \frac{2}{17}\sqrt{66}e^3 \otimes e_8$	{1234579, 139, 23467, 356, 1234579, 139, 23467, 356}
951:31	$0, 0, 0, 0, -\frac{1}{157}\sqrt{13029}e^{12}, \frac{3}{157}\sqrt{707}e^{13}, \frac{4}{157}\sqrt{606}e^{23}, \frac{1}{157}\sqrt{10706}e^{24},$ $\frac{1}{157}\sqrt{13029}e^{25} + \frac{3}{157}\sqrt{707}e^{36}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{18}{157}, \frac{18}{157}, \frac{66}{157}, -\frac{35}{157}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{28078}e^2 \otimes e_4$	{12369, 1279, 1345679, 1459, 235, 2567, 347, 46, 12369, 1279, 1345679, 1459, 235, 2567, 347, 46}
951:31	$0, 0, 0, 0, \frac{1}{157}\sqrt{13029}e^{12}, \frac{3}{157}\sqrt{707}e^{13}, \frac{4}{157}\sqrt{606}e^{23}, \frac{1}{157}\sqrt{10706}e^{24},$ $\frac{1}{157}\sqrt{13029}e^{25} + \frac{3}{157}\sqrt{707}e^{36}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{18}{157}, \frac{18}{157}, \frac{66}{157}, -\frac{35}{157}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{28078}e^2 \otimes e_4$	{12369, 1279, 1345679, 1459, 235, 2567, 347, 46, 12369, 1279, 1345679, 1459, 235, 2567, 347, 46}
951:31	$0, 0, 0, 0, -\frac{5}{233}\sqrt{165}e^{12}, \frac{5}{233}\sqrt{385}e^{13}, \frac{10}{233}\sqrt{55}e^{23}, \frac{10}{233}\sqrt{110}e^{24},$ $\frac{25}{233}\sqrt{11}e^{25} + \frac{15}{233}\sqrt{55}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{5}{233}\sqrt{1230}e^4 \otimes e_9 + \frac{5}{233}\sqrt{790}e^1 \otimes e_7$	{12689, 1359, 234567, 478, 12689, 1359, 234567, 478}
951:31	$0, 0, 0, 0, \frac{5}{233}\sqrt{165}e^{12}, \frac{5}{233}\sqrt{385}e^{13}, \frac{10}{233}\sqrt{55}e^{23}, \frac{10}{233}\sqrt{110}e^{24},$ $\frac{25}{233}\sqrt{11}e^{25} + \frac{15}{233}\sqrt{55}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{5}{233}\sqrt{1230}e^4 \otimes e_9 + \frac{5}{233}\sqrt{790}e^1 \otimes e_7$	{12689, 1359, 234567, 478, 12689, 1359, 234567, 478}
951:31	$0, 0, 0, 0, -\frac{4}{169}\sqrt{366}e^{12}, \frac{1}{169}\sqrt{8174}e^{13}, \frac{4}{169}\sqrt{122}e^{23}, \frac{1}{169}\sqrt{10126}e^{24},$ $\frac{4}{169}\sqrt{366}e^{25} + \frac{1}{169}\sqrt{8174}e^{36}$	$(\frac{3}{169}, \frac{19}{169}, \frac{19}{169}, -\frac{61}{169}, \frac{22}{169}, \frac{22}{169}, \frac{38}{169}, -\frac{42}{169}, \frac{41}{169})$ $+ \frac{7}{169}\sqrt{366}e^3 \otimes e_8$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}
951:31	$0, 0, 0, 0, \frac{4}{169}\sqrt{366}e^{12}, \frac{1}{169}\sqrt{8174}e^{13}, \frac{4}{169}\sqrt{122}e^{23}, \frac{1}{169}\sqrt{10126}e^{24},$ $\frac{4}{169}\sqrt{366}e^{25} + \frac{1}{169}\sqrt{8174}e^{36}$	$(\frac{3}{169}, \frac{19}{169}, \frac{19}{169}, -\frac{61}{169}, \frac{22}{169}, \frac{22}{169}, \frac{38}{169}, -\frac{42}{169}, \frac{41}{169})$ $+ \frac{7}{169}\sqrt{366}e^3 \otimes e_8$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}
951:31	$0, 0, 0, 0, -\frac{4}{29}e^{12}, \frac{1}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{3}e^{23}, \frac{1}{29}\sqrt{26}e^{24},$ $\frac{4}{29}e^{25} + \frac{1}{29}\sqrt{14}e^{36}$	$(\frac{3}{29}, -\frac{1}{29}, -\frac{1}{29}, -\frac{29}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{1}{29})$ $+ \frac{1}{29}\sqrt{34}e^3 \otimes e_8 - \frac{2}{29}\sqrt{5}e^4 \otimes e_7$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:31	$0, 0, 0, 0, \frac{4}{29}e^{12}, \frac{1}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{3}e^{23}, \frac{1}{29}\sqrt{26}e^{24}, \frac{4}{29}e^{25} + \frac{1}{29}\sqrt{14}e^{36}$	$(\frac{3}{29}, -\frac{1}{29}, -\frac{1}{29}, -\frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{1}{29})$ $+\frac{1}{29}\sqrt{34}e^3 \otimes e_8 - \frac{2}{29}\sqrt{5}e^4 \otimes e_7$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}
951:31	$0, 0, 0, 0, -\frac{4}{29}e^{12}, \frac{1}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{3}e^{23}, \frac{1}{29}\sqrt{26}e^{24}, \frac{4}{29}e^{25} + \frac{1}{29}\sqrt{14}e^{36}$	$(\frac{3}{29}, -\frac{1}{29}, -\frac{1}{29}, -\frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{1}{29})$ $+\frac{1}{29}\sqrt{34}e^3 \otimes e_8 + \frac{2}{29}\sqrt{5}e^4 \otimes e_7$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}
951:31	$0, 0, 0, 0, \frac{4}{29}e^{12}, \frac{1}{29}\sqrt{14}e^{13}, \frac{2}{29}\sqrt{3}e^{23}, \frac{1}{29}\sqrt{26}e^{24}, \frac{4}{29}e^{25} + \frac{1}{29}\sqrt{14}e^{36}$	$(\frac{3}{29}, -\frac{1}{29}, -\frac{1}{29}, -\frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{1}{29})$ $+\frac{1}{29}\sqrt{34}e^3 \otimes e_8 + \frac{2}{29}\sqrt{5}e^4 \otimes e_7$	{123459, 1256789, 1379, 14689, 2346, 278, 3567, 458, 123459, 1256789, 1379, 14689, 2346, 278, 3567, 458}
951:31	$0, 0, 0, 0, -\frac{19}{1873}\sqrt{1299}e^{12}, \frac{133}{1873}\sqrt{5}e^{13}, \frac{76}{1873}\sqrt{71}e^{23}, \frac{19}{1873}\sqrt{1042}e^{24}, \frac{19}{1873}\sqrt{935}e^{25} + \frac{19}{1873}\sqrt{609}e^{36}$	$(\frac{323}{1873}, -\frac{19}{1873}, -\frac{19}{1873}, -\frac{380}{1873}, \frac{304}{1873}, \frac{304}{1873}, -\frac{38}{1873}, -\frac{399}{1873}, \frac{285}{1873})$ $+\frac{19}{1873}\sqrt{2046}e^2 \otimes e_4 + \frac{76}{1873}\sqrt{91}e^1 \otimes e_7$	{12369, 1459, 2567, 347, 12369, 1459, 2567, 347}
951:31	$0, 0, 0, 0, \frac{19}{1873}\sqrt{1299}e^{12}, \frac{133}{1873}\sqrt{5}e^{13}, \frac{76}{1873}\sqrt{71}e^{23}, \frac{19}{1873}\sqrt{1042}e^{24}, \frac{19}{1873}\sqrt{935}e^{25} + \frac{19}{1873}\sqrt{609}e^{36}$	$(\frac{323}{1873}, -\frac{19}{1873}, -\frac{19}{1873}, -\frac{380}{1873}, \frac{304}{1873}, \frac{304}{1873}, -\frac{38}{1873}, -\frac{399}{1873}, \frac{285}{1873})$ $+\frac{19}{1873}\sqrt{2046}e^2 \otimes e_4 + \frac{76}{1873}\sqrt{91}e^1 \otimes e_7$	{12369, 1459, 2567, 347, 12369, 1459, 2567, 347}
951:31	$0, 0, 0, 0, -\frac{1}{1745}\sqrt{699}e^{12}, \frac{1}{1745}\sqrt{1047}e^{13}, \frac{16}{1745}e^{23}, \frac{1}{1745}\sqrt{1606}e^{24}, \frac{1}{1745}\sqrt{373}e^{25} + \frac{1}{1745}\sqrt{1373}e^{36}$	$(-\frac{24}{1745}, \frac{11}{1745}, \frac{11}{1745}, -\frac{1}{1745}, -\frac{13}{1745}, -\frac{13}{1745}, \frac{22}{1745}, \frac{2}{349}, -\frac{2}{1745})$ $+\frac{1}{1745}\sqrt{1886}e^2 \otimes e_8 + \frac{2}{1745}\sqrt{326}e^4 \otimes e_9$	{125689, 139, 23467, 4578, 125689, 139, 23467, 4578}
951:31	$0, 0, 0, 0, \frac{1}{1745}\sqrt{699}e^{12}, \frac{1}{1745}\sqrt{1047}e^{13}, \frac{16}{1745}e^{23}, \frac{1}{1745}\sqrt{1606}e^{24}, \frac{1}{1745}\sqrt{373}e^{25} + \frac{1}{1745}\sqrt{1373}e^{36}$	$(-\frac{24}{1745}, \frac{11}{1745}, \frac{11}{1745}, -\frac{1}{1745}, -\frac{13}{1745}, -\frac{13}{1745}, \frac{22}{1745}, \frac{2}{349}, -\frac{2}{1745})$ $+\frac{1}{1745}\sqrt{1886}e^2 \otimes e_8 + \frac{2}{1745}\sqrt{326}e^4 \otimes e_9$	{125689, 139, 23467, 4578, 125689, 139, 23467, 4578}
951:33	$0, 0, 0, 0, \frac{84}{949}\sqrt{5}e^{12}, \frac{21}{949}\sqrt{782}e^{13}, \frac{21}{949}\sqrt{910}e^{24}, \frac{84}{949}\sqrt{5}e^{14} + \frac{252}{949}\sqrt{2}e^{23}, \frac{21}{949}\sqrt{814}e^{16} + \frac{168}{949}\sqrt{6}e^{25}$	$(\frac{231}{949}, \frac{63}{949}, -\frac{105}{949}, -\frac{21}{73}, \frac{294}{949}, \frac{126}{949}, -\frac{210}{949}, -\frac{42}{949}, \frac{357}{949})$ $+\frac{21}{949}\sqrt{1614}e^1 \otimes e_7$	{1234589, 139}
951:33	$0, 0, 0, 0, \frac{1}{71}\sqrt{249}e^{12}, \frac{4}{71}\sqrt{15}e^{13}, \frac{18}{71}e^{24}, \frac{1}{71}\sqrt{249}e^{14} + \frac{2}{71}\sqrt{51}e^{23}, \frac{3}{71}\sqrt{29}e^{16} + \frac{6}{71}\sqrt{7}e^{25}$	$(\frac{5}{71}, \frac{1}{71}, -\frac{3}{71}, -\frac{7}{71}, \frac{6}{71}, \frac{2}{71}, -\frac{6}{71}, -\frac{2}{71}, \frac{7}{71})$ $+\frac{1}{71}\sqrt{393}e^3 \otimes e_7$	{278, 457}
951:33	$0, 0, 0, 0, \frac{3}{221}\sqrt{1394}e^{12}, \frac{6}{221}\sqrt{170}e^{13}, \frac{3}{221}\sqrt{2278}e^{24}, \frac{6}{221}\sqrt{442}e^{14} + \frac{18}{221}\sqrt{34}e^{23}, \frac{3}{221}\sqrt{1870}e^{16} + \frac{9}{221}\sqrt{170}e^{25}$	$(-\frac{3}{13}, 0, \frac{3}{13}, \frac{6}{13}, -\frac{3}{13}, 0, \frac{6}{13}, \frac{3}{13}, -\frac{3}{13})$ $+\frac{6}{221}\sqrt{1581}e^4 \otimes e_9$	{12456, 3569}
951:34	$0, 0, 0, 0, \frac{35}{162}\sqrt{5}e^{12}, \frac{7}{81}\sqrt{170}e^{13}, \frac{7}{162}\sqrt{210}e^{24}, \frac{7}{162}\sqrt{65}e^{14} + \frac{7}{81}\sqrt{43}e^{23}, \frac{7}{81}\sqrt{30}e^{15} + \frac{7}{162}\sqrt{53}e^{36}$	$(\frac{7}{27}, -\frac{7}{81}, \frac{7}{81}, -\frac{7}{27}, \frac{14}{81}, \frac{28}{81}, -\frac{28}{81}, 0, \frac{35}{81})$ $+\frac{7}{162}\sqrt{541}e^1 \otimes e_7$	{12469, 478}
951:34	$0, 0, 0, 0, \frac{53}{5061}\sqrt{890}e^{12}, \frac{53}{5061}\sqrt{506}e^{13}, \frac{53}{1687}\sqrt{406}e^{24}, \frac{53}{1687}\sqrt{330}e^{14} + \frac{106}{5061}\sqrt{730}e^{23}, \frac{53}{5061}\sqrt{862}e^{15} + \frac{106}{5061}\sqrt{1015}e^{36}$	$(-\frac{318}{1687}, \frac{848}{5061}, -\frac{53}{5061}, \frac{583}{1687}, -\frac{106}{5061}, -\frac{1007}{5061}, \frac{371}{723}, \frac{265}{1687}, -\frac{1060}{5061})$ $+\frac{53}{5061}\sqrt{8582}e^4 \otimes e_9$	{1689, 23468}
951:34	$0, 0, 0, 0, \frac{820}{4909}\sqrt{6}e^{12}, \frac{123}{4909}\sqrt{590}e^{13}, \frac{41}{4909}\sqrt{4542}e^{24}, \frac{164}{4909}\sqrt{78}e^{14} + \frac{164}{4909}\sqrt{10}e^{23}, \frac{1968}{4909}e^{15} + \frac{41}{4909}\sqrt{4094}e^{36}$	$(\frac{943}{4909}, -\frac{369}{4909}, \frac{287}{4909}, -\frac{1025}{4909}, \frac{574}{4909}, \frac{1230}{4909}, -\frac{1394}{4909}, -\frac{82}{4909}, \frac{1517}{4909})$ $+\frac{41}{4909}\sqrt{8574}e^3 \otimes e_7$	{1234589, 125679}
951:35	$0, 0, 0, 0, -\frac{272}{1405}\sqrt{3}e^{12}, \frac{17}{1405}\sqrt{1310}e^{13}, \frac{17}{1405}\sqrt{1630}e^{24}, \frac{272}{1405}\sqrt{3}e^{14} + \frac{68}{1405}\sqrt{26}e^{23}, \frac{136}{1405}\sqrt{15}e^{25} + \frac{17}{1405}\sqrt{1118}e^{36}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{306}{1405}, -\frac{34}{1405}, \frac{221}{1405})$ $+\frac{17}{1405}\sqrt{2526}e^3 \otimes e_7$	{2346, 278, 3568, 457, 2346, 278, 3568, 457}
951:35	$0, 0, 0, 0, \frac{272}{1405}\sqrt{3}e^{12}, \frac{17}{1405}\sqrt{1310}e^{13}, \frac{17}{1405}\sqrt{1630}e^{24}, \frac{272}{1405}\sqrt{3}e^{14} + \frac{68}{1405}\sqrt{26}e^{23}, \frac{136}{1405}\sqrt{15}e^{25} + \frac{17}{1405}\sqrt{1118}e^{36}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{306}{1405}, -\frac{34}{1405}, \frac{221}{1405})$ $+\frac{17}{1405}\sqrt{2526}e^3 \otimes e_7$	{2346, 278, 3568, 457, 2346, 278, 3568, 457}
951:38	$0, 0, 0, 0, -\frac{2}{31}\sqrt{19}e^{12}, \frac{6}{31}e^{13}, \frac{2}{31}\sqrt{6}e^{24}, \frac{2}{31}\sqrt{22}e^{34}, \frac{2}{31}\sqrt{11}e^{14} + \frac{2}{31}\sqrt{19}e^{25} + \frac{6}{31}e^{36}$	$(\frac{4}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{2}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+\frac{4}{31}\sqrt{7}e^2 \otimes e_8$	{1234679, 14589, 23457, 468, 1234679, 14589, 23457, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:38	$0, 0, 0, 0, \frac{2}{31}\sqrt{19}e^{12}, \frac{6}{31}e^{13}, \frac{2}{31}\sqrt{6}e^{24}, \frac{2}{31}\sqrt{22}e^{34},$ $\frac{2}{31}\sqrt{11}e^{14} + \frac{2}{31}\sqrt{19}e^{25} + \frac{6}{31}e^{36}$	$(\frac{4}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{2}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+ \frac{4}{31}\sqrt{7}e^2 \otimes e_8$	{1234679, 14589, 23457, 468, 1234679, 14589, 23457, 468}
951:38	$0, 0, 0, 0, -\frac{65}{509}\sqrt{2}e^{12}, \frac{13}{509}\sqrt{822}e^{13}, \frac{26}{509}\sqrt{246}e^{24}, \frac{26}{509}\sqrt{190}e^{34},$ $\frac{26}{509}\sqrt{95}e^{14} + \frac{117}{509}\sqrt{6}e^{25} + \frac{13}{509}\sqrt{386}e^{36}$	$(\frac{221}{509}, -\frac{39}{509}, -\frac{39}{509}, -\frac{78}{509}, \frac{182}{509}, \frac{182}{509}, -\frac{117}{509}, -\frac{117}{509}, \frac{143}{509})$ $+ \frac{52}{509}\sqrt{109}e^1 \otimes e_7$	{139, 1689, 2367, 278, 139, 1689, 2367, 278}
951:38	$0, 0, 0, 0, \frac{65}{509}\sqrt{2}e^{12}, \frac{13}{509}\sqrt{822}e^{13}, \frac{26}{509}\sqrt{246}e^{24}, \frac{26}{509}\sqrt{190}e^{34},$ $\frac{26}{509}\sqrt{95}e^{14} + \frac{117}{509}\sqrt{6}e^{25} + \frac{13}{509}\sqrt{386}e^{36}$	$(\frac{221}{509}, -\frac{39}{509}, -\frac{39}{509}, -\frac{78}{509}, \frac{182}{509}, \frac{182}{509}, -\frac{117}{509}, -\frac{117}{509}, \frac{143}{509})$ $+ \frac{52}{509}\sqrt{109}e^1 \otimes e_7$	{139, 1689, 2367, 278, 139, 1689, 2367, 278}
951:40	$0, 0, 0, 0, \frac{17}{1301}\sqrt{3318}e^{14}, \frac{408}{1301}e^{15} + \frac{68}{1301}\sqrt{102}e^{24} + \frac{51}{1301}\sqrt{134}e^{36}$	$(\frac{238}{1301}, -\frac{340}{1301}, -\frac{51}{1301}, \frac{476}{1301}, -\frac{102}{1301}, \frac{187}{1301}, -\frac{391}{1301}, \frac{714}{1301}, \frac{136}{1301})$ $+ \frac{102}{1301}\sqrt{190}e^4 \otimes e_7$	{125789, 357}
951:40	$0, 0, 0, 0, \frac{2}{103}\sqrt{570}e^{12}, \frac{12}{103}\sqrt{10}e^{13}, \frac{20}{103}\sqrt{10}e^{23}, \frac{2}{103}\sqrt{570}e^{14},$ $\frac{20}{103}\sqrt{10}e^{15} + \frac{4}{103}\sqrt{215}e^{24} + \frac{2}{103}\sqrt{290}e^{36}$	$(\frac{14}{103}, -\frac{22}{103}, -\frac{4}{103}, \frac{28}{103}, -\frac{8}{103}, \frac{10}{103}, -\frac{26}{103}, \frac{42}{103}, \frac{6}{103})$ $+ \frac{2}{103}\sqrt{1790}e^1 \otimes e_7$	{123469, 3478}
951:40	$0, 0, 0, 0, \frac{13}{1341}\sqrt{3774}e^{14}, \frac{26}{1341}\sqrt{582}e^{15} + \frac{52}{1341}\sqrt{78}e^{24} + \frac{91}{1341}\sqrt{66}e^{36}$	$(-\frac{130}{1341}, \frac{364}{1341}, \frac{13}{1341}, -\frac{260}{1341}, \frac{26}{1341}, -\frac{13}{1341}, \frac{481}{1341}, -\frac{130}{1341}, \frac{104}{1341})$ $+ \frac{26}{1341}\sqrt{1770}e^3 \otimes e_8$	{123459, 458}
951:41	$0, 0, 0, 0, -\frac{4}{205}\sqrt{69}e^{12}, \frac{4}{205}\sqrt{251}e^{13}, \frac{8}{205}\sqrt{19}e^{23}, \frac{4}{205}\sqrt{274}e^{24},$ $\frac{12}{205}\sqrt{22}e^{14} + \frac{4}{205}\sqrt{69}e^{25} + \frac{4}{205}\sqrt{251}e^{36}$	$(\frac{6}{41}, -\frac{8}{205}, -\frac{8}{205}, -\frac{16}{205}, \frac{22}{205}, \frac{22}{205}, -\frac{16}{205}, -\frac{24}{205}, \frac{14}{205})$ $+ \frac{4}{205}\sqrt{366}e^3 \otimes e_8$	{1234579, 146789, 23467, 4578, 1234579, 146789, 23467, 4578}
951:41	$0, 0, 0, 0, \frac{4}{205}\sqrt{69}e^{12}, \frac{4}{205}\sqrt{251}e^{13}, \frac{8}{205}\sqrt{19}e^{23}, \frac{4}{205}\sqrt{274}e^{24},$ $\frac{12}{205}\sqrt{22}e^{14} + \frac{4}{205}\sqrt{69}e^{25} + \frac{4}{205}\sqrt{251}e^{36}$	$(\frac{6}{41}, -\frac{8}{205}, -\frac{8}{205}, -\frac{16}{205}, \frac{22}{205}, \frac{22}{205}, -\frac{16}{205}, -\frac{24}{205}, \frac{14}{205})$ $+ \frac{4}{205}\sqrt{366}e^3 \otimes e_8$	{1234579, 146789, 23467, 4578, 1234579, 146789, 23467, 4578}
951:43	$0, 0, 0, 0, \frac{17}{1007}\sqrt{1290}e^{12}, \frac{306}{1007}e^{13}, \frac{34}{1007}\sqrt{534}e^{23}, \frac{17}{1007}\sqrt{1974}e^{24},$ $\frac{17}{1007}\sqrt{966}e^{16} + \frac{289}{1007}\sqrt{6}e^{25} + \frac{204}{1007}\sqrt{7}e^{34}$	$(\frac{255}{1007}, -\frac{34}{1007}, -\frac{17}{53}, \frac{510}{1007}, \frac{221}{1007}, -\frac{68}{1007}, -\frac{357}{1007}, \frac{476}{1007}, \frac{187}{1007})$ $+ \frac{34}{1007}\sqrt{1290}e^4 \otimes e_7$	{1489, 234}
951:43	$0, 0, 0, 0, \frac{41}{3109}\sqrt{3122}e^{12}, \frac{82}{3109}\sqrt{667}e^{13}, \frac{82}{3109}\sqrt{501}e^{23},$ $\frac{41}{3109}\sqrt{3338}e^{24}, \frac{41}{3109}\sqrt{2222}e^{16} + \frac{41}{3109}\sqrt{2010}e^{25} + \frac{82}{3109}\sqrt{167}e^{34}$	$(-\frac{451}{3109}, \frac{328}{3109}, \frac{1107}{3109}, -\frac{902}{3109}, -\frac{123}{3109}, \frac{656}{3109}, \frac{1435}{3109}, -\frac{574}{3109}, \frac{205}{3109})$ $+ \frac{82}{3109}\sqrt{1338}e^3 \otimes e_8$	{123459, 458}
951:43	$0, 0, 0, 0, \frac{65}{349}\sqrt{6}e^{12}, \frac{26}{349}\sqrt{71}e^{13}, \frac{91}{349}\sqrt{6}e^{23}, \frac{26}{349}\sqrt{34}e^{24},$ $\frac{13}{349}\sqrt{434}e^{16} + \frac{26}{349}\sqrt{39}e^{25} + \frac{13}{349}\sqrt{298}e^{34}$	$(\frac{65}{349}, -\frac{13}{349}, -\frac{91}{349}, \frac{130}{349}, \frac{52}{349}, -\frac{26}{349}, -\frac{104}{349}, \frac{117}{349}, \frac{39}{349})$ $+ \frac{130}{349}\sqrt{6}e^1 \otimes e_7$	{123459, 247}
951:43	$0, 0, 0, 0, \frac{7}{3061}\sqrt{2290}e^{12}, \frac{42}{3061}\sqrt{113}e^{13}, \frac{56}{3061}\sqrt{3}e^{23}, \frac{21}{3061}\sqrt{510}e^{24},$ $\frac{7}{3061}\sqrt{4526}e^{16} + \frac{21}{3061}\sqrt{174}e^{25} + \frac{420}{3061}e^{34}$	$(-\frac{91}{3061}, \frac{42}{3061}, \frac{175}{3061}, -\frac{182}{3061}, -\frac{49}{3061}, \frac{84}{3061}, \frac{217}{3061}, -\frac{140}{3061}, -\frac{7}{3061})$ $+ \frac{14}{3061}\sqrt{1374}e^1 \otimes e_8$	{1234579, 4578}
951:45	$0, 0, 0, 0, \frac{104}{1455}\sqrt{30}e^{12}, \frac{208}{1455}\sqrt{3}e^{13}, \frac{13}{1455}\sqrt{4542}e^{23},$ $\frac{13}{485}\sqrt{462}e^{14}, \frac{52}{1455}\sqrt{66}e^{16} + \frac{52}{1455}\sqrt{138}e^{25} + \frac{13}{1455}\sqrt{4254}e^{37}$	$(\frac{39}{485}, \frac{39}{485}, \frac{39}{485}, -\frac{169}{485}, \frac{78}{485}, \frac{78}{485}, \frac{78}{485}, -\frac{26}{97}, \frac{117}{485})$ $+ \frac{39}{485}\sqrt{94}e^3 \otimes e_8$	{1234569, 4568}
951:45	$0, 0, 0, 0, \frac{5}{147}\sqrt{158}e^{12}, \frac{5}{147}\sqrt{542}e^{13}, \frac{5}{147}\sqrt{226}e^{23}, \frac{5}{147}\sqrt{354}e^{14},$ $\frac{5}{147}\sqrt{446}e^{16} + \frac{5}{147}\sqrt{62}e^{25} + \frac{5}{147}\sqrt{322}e^{37}$	$(\frac{5}{49}, \frac{5}{49}, \frac{5}{49}, -\frac{20}{49}, \frac{10}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{15}{49}, \frac{15}{49})$ $+ \frac{5}{147}\sqrt{798}e^1 \otimes e_4$	{12379, 47}
951:45	$0, 0, 0, 0, \frac{26}{1455}\sqrt{789}e^{12}, \frac{13}{1455}\sqrt{3306}e^{13}, \frac{26}{1455}\sqrt{501}e^{23},$ $\frac{13}{485}\sqrt{462}e^{14}, \frac{13}{1455}\sqrt{3594}e^{16} + \frac{26}{1455}\sqrt{717}e^{25} + \frac{26}{1455}\sqrt{429}e^{37}$	$(\frac{39}{485}, \frac{39}{485}, \frac{39}{485}, -\frac{169}{485}, \frac{78}{485}, \frac{78}{485}, \frac{78}{485}, -\frac{26}{97}, \frac{117}{485})$ $+ \frac{39}{485}\sqrt{94}e^2 \otimes e_8$	{123469, 468}
951:45	$0, 0, 0, 0, \frac{38}{1515}\sqrt{129}e^{12}, \frac{19}{1515}\sqrt{1722}e^{13}, \frac{19}{1515}\sqrt{690}e^{23},$ $\frac{19}{505}\sqrt{402}e^{14}, \frac{19}{1515}\sqrt{474}e^{16} + \frac{76}{1515}\sqrt{105}e^{25} + \frac{19}{1515}\sqrt{2886}e^{37}$	$(-\frac{19}{505}, -\frac{19}{505}, -\frac{19}{505}, \frac{304}{505}, -\frac{38}{505}, -\frac{38}{505}, -\frac{38}{505}, \frac{57}{101}, -\frac{57}{505})$ $+ \frac{19}{505}\sqrt{842}e^4 \otimes e_9$	{13467, 2679}
951:47	$0, 0, 0, 0, \frac{114}{6541}\sqrt{214}e^{12}, \frac{57}{6541}\sqrt{674}e^{13}, \frac{57}{6541}\sqrt{910}e^{13},$ $\frac{114}{6541}\sqrt{1003}e^{23}, \frac{342}{6541}\sqrt{17}e^{15} + \frac{57}{6541}\sqrt{1394}e^{36}$	$(-\frac{513}{6541}, \frac{1311}{6541}, -\frac{1425}{6541}, \frac{3135}{6541}, \frac{798}{6541}, \frac{1710}{6541}, -\frac{1938}{6541}, -\frac{114}{6541}, \frac{285}{6541})$ $+ \frac{114}{6541}\sqrt{1398}e^4 \otimes e_8 + \frac{171}{6541}\sqrt{682}e^2 \otimes e_7$	{14567, 2589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:47	$0, 0, 0, 0, \frac{3}{67} \sqrt{110e^{12}}, \frac{12}{67} \sqrt{5e^{34}}, \frac{3}{67} \sqrt{110e^{13}}, \frac{3}{67} \sqrt{230e^{23}},$ $\frac{12}{67} \sqrt{15e^{15}} + \frac{12}{67} \sqrt{10e^{36}}$	$(\frac{21}{67}, -\frac{24}{67}, 0, \frac{18}{67}, -\frac{3}{67}, \frac{18}{67}, \frac{21}{67}, -\frac{24}{67}, \frac{18}{67})$ $+ \frac{3}{67} \sqrt{570e^1} \otimes e_8$	{123469, 1567, 24589, 378}
951:47	$0, 0, 0, 0, \frac{6}{403} \sqrt{1270e^{12}}, \frac{6}{403} \sqrt{1270e^{34}}, \frac{1}{403} \sqrt{99822e^{13}}, \frac{1}{403} \sqrt{81534e^{23}},$ $\frac{12}{403} \sqrt{254e^{15}} + \frac{1}{403} \sqrt{54102e^{36}}$	$(\frac{35}{403}, \frac{11}{403}, \frac{154}{403}, -\frac{227}{403}, \frac{46}{403}, -\frac{73}{403}, \frac{189}{403}, \frac{165}{403}, \frac{81}{403})$ $+ \frac{3}{403} \sqrt{29210e^3} \otimes e_4$	{12359, 147, 2379, 45}
951:47	$0, 0, 0, 0, \frac{18}{1243} \sqrt{1365e^{12}}, \frac{9}{1243} \sqrt{5010e^{34}}, \frac{9}{1243} \sqrt{10410e^{13}},$ $\frac{90}{1243} \sqrt{105e^{23}}, \frac{54}{1243} \sqrt{5e^{15}} + \frac{117}{1243} \sqrt{30e^{36}}$	$(-\frac{3}{11}, \frac{711}{1243}, -\frac{15}{113}, \frac{33}{113}, \frac{372}{113}, \frac{18}{1243}, -\frac{504}{1243}, \frac{546}{1243}, \frac{3}{113})$ $+ \frac{27}{1243} \sqrt{3490e^2} \otimes e_7$	{123469, 1567, 24589, 378}
951:47	$0, 0, 0, 0, \frac{48}{3679} \sqrt{133e^{12}}, \frac{96}{3679} \sqrt{173e^{34}}, \frac{1200}{3679} \sqrt{2e^{13}},$ $\frac{48}{3679} \sqrt{1085e^{23}}, \frac{48}{3679} \sqrt{330e^{15}} + \frac{48}{3679} e^{36}$	$(-\frac{528}{3679}, \frac{984}{3679}, \frac{360}{3679}, -\frac{792}{3679}, \frac{456}{3679}, -\frac{432}{3679}, -\frac{168}{3679}, \frac{1344}{3679}, -\frac{72}{3679})$ $+ \frac{48}{3679} \sqrt{1677e^2} \otimes e_7 + \frac{48}{3679} \sqrt{1743e^3} \otimes e_4$	{2489, 3578}
951:47	$0, 0, 0, 0, \frac{12}{1249} \sqrt{151e^{12}}, \frac{3}{1249} \sqrt{107210e^{34}}, \frac{12}{1249} \sqrt{6946e^{13}},$ $\frac{12}{1249} \sqrt{3473e^{23}}, \frac{9}{1249} \sqrt{2114e^{15}} + \frac{3}{1249} \sqrt{8758e^{36}}$	$(-\frac{105}{1249}, \frac{384}{1249}, -\frac{360}{1249}, \frac{894}{1249}, \frac{279}{1249}, \frac{534}{1249}, -\frac{465}{1249}, \frac{24}{1249}, \frac{174}{1249})$ $+ \frac{3}{1249} \sqrt{314382e^4} \otimes e_7$	{127, 13459, 235678, 4689}
951:47	$0, 0, 0, 0, \frac{12}{409} \sqrt{35e^{12}}, \frac{3}{409} \sqrt{710e^{34}}, \frac{3}{409} \sqrt{1010e^{13}}, \frac{30}{409} \sqrt{14e^{23}},$ $\frac{6}{409} \sqrt{195e^{15}} + \frac{3}{409} \sqrt{970e^{36}}$	$(\frac{3}{409}, \frac{3}{409}, -\frac{45}{409}, \frac{99}{409}, \frac{6}{409}, \frac{54}{409}, -\frac{42}{409}, -\frac{42}{409}, \frac{9}{409})$ $+ \frac{30}{409} \sqrt{21e^1} \otimes e_8 + \frac{9}{409} \sqrt{190e^2} \otimes e_7$	{123469, 1567, 24589, 378}
951:47	$0, 0, 0, 0, \frac{12}{409} \sqrt{35e^{12}}, \frac{3}{409} \sqrt{710e^{34}}, \frac{3}{409} \sqrt{1010e^{13}}, \frac{30}{409} \sqrt{14e^{23}},$ $\frac{6}{409} \sqrt{195e^{15}} + \frac{3}{409} \sqrt{970e^{36}}$	$(\frac{3}{409}, \frac{3}{409}, -\frac{45}{409}, \frac{99}{409}, \frac{6}{409}, \frac{54}{409}, -\frac{42}{409}, -\frac{42}{409}, \frac{9}{409})$ $+ \frac{30}{409} \sqrt{21e^1} \otimes e_8 - \frac{9}{409} \sqrt{190e^2} \otimes e_7$	{123469, 1567, 24589, 378}
951:47	$0, 0, 0, 0, \frac{6}{427} \sqrt{14e^{12}}, \frac{6}{427} \sqrt{497e^{34}}, \frac{6}{427} \sqrt{770e^{13}}, \frac{12}{61} \sqrt{5e^{23}},$ $\frac{12}{427} \sqrt{105e^{15}} + \frac{6}{427} \sqrt{238e^{36}}$	$(\frac{12}{61}, -\frac{15}{61}, \frac{9}{61}, -\frac{9}{61}, -\frac{3}{61}, 0, \frac{21}{61}, -\frac{6}{61}, \frac{9}{61})$ $+ \frac{18}{427} \sqrt{133e^3} \otimes e_4 + \frac{6}{427} \sqrt{1533e^1} \otimes e_8$	{24589, 378}
951:47	$0, 0, 0, 0, \frac{12}{2573} \sqrt{1963e^{12}}, \frac{6}{2573} \sqrt{114458e^{34}}, \frac{6}{2573} \sqrt{69611e^{13}},$ $\frac{12}{2573} \sqrt{28690e^{23}}, \frac{108}{2573} \sqrt{151e^{15}} + \frac{12}{2573} \sqrt{2114e^{36}}$	$(\frac{540}{2573}, -\frac{357}{2573}, -\frac{546}{2573}, \frac{1815}{2573}, \frac{183}{2573}, \frac{1269}{2573}, -\frac{6}{2573}, -\frac{903}{2573}, \frac{723}{2573})$ $+ \frac{6}{2573} \sqrt{319818e^4} \otimes e_8$	{1289, 1456, 25789, 467}
951:48	$0, 0, 0, 0, \frac{4}{3269} \sqrt{6215e^{12}}, \frac{10}{3269} \sqrt{45991e^{34}}, \frac{2}{3269} \sqrt{523303e^{13}},$ $\frac{2}{3269} \sqrt{1137345e^{23}}, \frac{2}{3269} \sqrt{53449e^{15}} + \frac{8}{3269} \sqrt{85767e^{46}}$	$(\frac{998}{3269}, -\frac{381}{3269}, -\frac{865}{3269}, \frac{1240}{3269}, \frac{617}{3269}, \frac{375}{3269}, \frac{19}{467}, -\frac{178}{467}, \frac{1615}{3269})$ $+ \frac{2}{3269} \sqrt{3374745e^4} \otimes e_8$	{128, 1356789, 2578, 3689}
951:48	$0, 0, 0, 0, \frac{11}{821} \sqrt{1914e^{12}}, \frac{6}{821} \sqrt{1595e^{34}}, \frac{29}{821} \sqrt{110e^{13}}, \frac{4}{821} \sqrt{16269e^{23}},$ $\frac{2}{821} \sqrt{83897e^{15}} + \frac{9}{821} \sqrt{638e^{46}}$	$(\frac{304}{821}, -\frac{244}{821}, -\frac{90}{821}, \frac{227}{821}, \frac{60}{821}, \frac{137}{821}, \frac{214}{821}, -\frac{334}{821}, \frac{364}{821})$ $+ \frac{3}{821} \sqrt{96338e^1} \otimes e_8$	{123469, 1239, 1457, 1567}
951:48	$0, 0, 0, 0, \frac{7}{242} \sqrt{65e^{12}}, \frac{35}{121} e^{34}, \frac{7}{242} \sqrt{38e^{13}}, \frac{7}{242} \sqrt{255e^{23}},$ $\frac{7}{242} \sqrt{46e^{15}} + \frac{7}{242} \sqrt{213e^{46}}$	$(\frac{7}{121}, \frac{21}{121}, -\frac{35}{121}, \frac{35}{121}, \frac{28}{121}, 0, -\frac{28}{121}, -\frac{14}{121}, \frac{35}{121})$ $+ \frac{14}{121} \sqrt{30e^4} \otimes e_8 + \frac{35}{242} \sqrt{15e^2} \otimes e_7$	{258, 36789}
951:48	$0, 0, 0, 0, \frac{9}{82} \sqrt{7e^{12}}, \frac{9}{41} e^{34}, \frac{3}{82} \sqrt{58e^{13}}, \frac{27}{82} e^{23},$ $\frac{3}{82} \sqrt{46e^{15}} + \frac{3}{82} \sqrt{5e^{46}}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{9}{41}, \frac{6}{41}, 0, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41})$ $- \frac{3}{82} \sqrt{137e^2} \otimes e_7 + \frac{6}{41} \sqrt{10e^1} \otimes e_8$	{123469, 1239, 1457, 1567}
951:48	$0, 0, 0, 0, \frac{9}{82} \sqrt{7e^{12}}, \frac{9}{41} e^{34}, \frac{3}{82} \sqrt{58e^{13}}, \frac{27}{82} e^{23},$ $\frac{3}{82} \sqrt{46e^{15}} + \frac{3}{82} \sqrt{5e^{46}}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{9}{41}, \frac{6}{41}, 0, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41})$ $+ \frac{3}{82} \sqrt{137e^2} \otimes e_7 + \frac{6}{41} \sqrt{10e^1} \otimes e_8$	{123469, 1239, 1457, 1567}
951:48	$0, 0, 0, 0, \frac{20}{1567} \sqrt{209e^{12}}, \frac{2}{1567} \sqrt{212135e^{34}}, \frac{4}{1567} \sqrt{77330e^{13}},$ $\frac{9}{1567} \sqrt{6270e^{23}}, \frac{2}{1567} \sqrt{173470e^{15}} + \frac{1}{1567} \sqrt{1322970e^{46}}$	$(\frac{9}{1567}, \frac{512}{1567}, -\frac{526}{1567}, \frac{528}{1567}, \frac{521}{1567}, \frac{2}{1567}, -\frac{517}{1567}, -\frac{14}{1567}, \frac{530}{1567})$ $+ \frac{2}{1567} \sqrt{699105e^4} \otimes e_7$	{1234589, 178, 236789, 4568}
951:48	$0, 0, 0, 0, \frac{1}{10} \sqrt{35e^{12}}, \frac{1}{5} \sqrt{5e^{34}}, \frac{1}{2} \sqrt{2e^{13}}, \frac{3}{10} \sqrt{5e^{23}},$ $\frac{1}{10} \sqrt{10e^{15}} + \frac{1}{10} \sqrt{15e^{46}}$	$(-\frac{1}{5}, \frac{3}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{2}{5}, 0, -\frac{2}{5}, \frac{2}{5}, \frac{1}{5})$ $+ \frac{1}{10} \sqrt{165e^2} \otimes e_7$	{123, 12346, 14579, 15679}
951:48	$0, 0, 0, 0, \frac{46}{1293} \sqrt{51e^{12}}, \frac{46}{1293} \sqrt{70e^{34}}, \frac{46}{1293} \sqrt{165e^{13}}, \frac{184}{1293} e^{23},$ $\frac{23}{1293} \sqrt{58e^{15}} + \frac{23}{1293} \sqrt{502e^{46}}$	$(\frac{69}{431}, \frac{23}{1293}, -\frac{115}{431}, \frac{391}{1293}, \frac{230}{1293}, \frac{46}{1293}, -\frac{46}{431}, -\frac{322}{1293}, \frac{437}{1293})$ $+ \frac{23}{1293} \sqrt{1022e^1} \otimes e_8 + \frac{375}{1293} \sqrt{2e^4} \otimes e_7$	{12349, 157}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:49	$0, 0, 0, 0, \frac{17}{1821}\sqrt{262}e^{12}, \frac{221}{1821}\sqrt{2}e^{34}, \frac{153}{607}\sqrt{2}e^{13}, \frac{17}{1821}\sqrt{1414}e^{24},$ $\frac{34}{1821}\sqrt{95}e^{15} + \frac{272}{1821}\sqrt{2}e^{36}$	$(\frac{85}{607}, -\frac{425}{1821}, -\frac{51}{607}, \frac{391}{1821}, -\frac{170}{1821}, \frac{238}{1821}, \frac{34}{607}, -\frac{34}{1821}, \frac{85}{1821})$ $+ \frac{34}{1821}\sqrt{389}e^4 \otimes e_7 + \frac{34}{1821}\sqrt{446}e^1 \otimes e_8$	{2378, 4589}
951:49	$0, 0, 0, 0, \frac{1}{331}\sqrt{10298}e^{12}, \frac{5}{331}\sqrt{1626}e^{34}, \frac{1}{331}\sqrt{78590}e^{13},$ $\frac{1}{331}\sqrt{69918}e^{24}, \frac{4}{331}\sqrt{813}e^{15} + \frac{4}{331}\sqrt{813}e^{36}$	$(-\frac{91}{331}, \frac{183}{331}, \frac{3}{331}, -\frac{5}{331}, \frac{92}{331}, -\frac{2}{331}, -\frac{88}{331}, \frac{178}{331}, \frac{1}{331})$ $+ \frac{2}{331}\sqrt{38211}e^2 \otimes e_7$	{1238, 145789, 2568, 346789}
951:49	$0, 0, 0, 0, \frac{1}{1375}\sqrt{277262}e^{12}, \frac{1}{1375}\sqrt{407946}e^{34}, \frac{1}{1375}\sqrt{743486}e^{13},$ $\frac{1}{1375}\sqrt{852978}e^{24}, \frac{16}{1375}\sqrt{2649}e^{15} + \frac{6}{1375}\sqrt{9713}e^{36}$	$(\frac{413}{1375}, -\frac{39}{125}, \frac{219}{1375}, -\frac{41}{1375}, \frac{16}{1375}, \frac{178}{1375}, \frac{632}{1375}, -\frac{94}{275}, \frac{397}{1375})$ $+ \frac{2}{1375}\sqrt{513906}e^1 \otimes e_8$	{123469, 12479, 135, 1567}
951:49	$0, 0, 0, 0, \frac{2}{61}\sqrt{2}e^{12}, \frac{1}{61}\sqrt{30}e^{34}, \frac{5}{61}\sqrt{2}e^{13}, \frac{4}{61}\sqrt{3}e^{24},$ $\frac{2}{61}\sqrt{3}e^{15} + \frac{3}{61}\sqrt{2}e^{36}$	$(-\frac{1}{61}, \frac{3}{61}, \frac{3}{61}, -\frac{5}{61}, \frac{2}{61}, -\frac{2}{61}, \frac{2}{61}, -\frac{2}{61}, \frac{1}{61})$ $+ \frac{2}{61}\sqrt{15}e^1 \otimes e_8 + \frac{3}{61}\sqrt{6}e^2 \otimes e_7$	{123469, 1567}
951:50	$0, 0, 0, 0, \frac{1}{317}\sqrt{13510}e^{12}, \frac{1}{317}\sqrt{21230}e^{34}, \frac{1}{317}\sqrt{51338}e^{13},$ $\frac{1}{317}\sqrt{30494}e^{24}, \frac{10}{317}\sqrt{386}e^{25} + \frac{2}{317}\sqrt{5983}e^{36}$	$(-\frac{121}{317}, \frac{103}{317}, \frac{31}{317}, \frac{23}{317}, -\frac{18}{317}, \frac{54}{317}, -\frac{90}{317}, \frac{126}{317}, \frac{85}{317})$ $+ \frac{6}{317}\sqrt{2895}e^2 \otimes e_7$	{123469, 145789, 2568, 37}
951:50	$0, 0, 0, 0, \frac{1}{247}\sqrt{6090}e^{12}, \frac{1}{247}\sqrt{22330}e^{34}, \frac{1}{247}\sqrt{41006}e^{13},$ $\frac{1}{247}\sqrt{41006}e^{24}, \frac{4}{247}\sqrt{406}e^{25} + \frac{4}{247}\sqrt{406}e^{36}$	$(\frac{131}{247}, -\frac{63}{247}, \frac{7}{247}, -\frac{9}{247}, \frac{68}{247}, -\frac{2}{247}, \frac{138}{247}, -\frac{72}{247}, \frac{5}{247})$ $+ \frac{14}{247}\sqrt{435}e^1 \otimes e_8$	{135, 1567, 346789, 489}
951:50	$0, 0, 0, 0, \frac{9}{2021}\sqrt{30}e^{12}, \frac{9}{2021}\sqrt{110}e^{34}, \frac{9}{2021}\sqrt{202}e^{13}, \frac{3}{2021}\sqrt{1414}e^{24},$ $\frac{6}{2021}\sqrt{130}e^{25} + \frac{6}{2021}\sqrt{173}e^{36}$	$(-\frac{33}{2021}, \frac{39}{2021}, \frac{63}{2021}, -\frac{81}{2021}, \frac{6}{2021}, -\frac{18}{2021}, \frac{30}{2021}, -\frac{42}{2021}, \frac{45}{2021})$ $+ \frac{12}{2021}\sqrt{110}e^1 \otimes e_8 + \frac{6}{2021}\sqrt{505}e^2 \otimes e_7$	{123469, 2568}
951:50	$0, 0, 0, 0, \frac{1}{10}\sqrt{2}e^{12}, \frac{1}{10}\sqrt{2}e^{34}, \frac{1}{10}\sqrt{14}e^{13}, \frac{1}{10}\sqrt{14}e^{24},$ $\frac{1}{10}\sqrt{2}e^{25} + \frac{1}{10}\sqrt{2}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, 0, 0, 0, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{2}e^2 \otimes e_7 + \frac{3}{10}\sqrt{2}e^3 \otimes e_8$	{123456, 1478, 2689}
951:50	$0, 0, 0, 0, \frac{1}{10}\sqrt{2}e^{12}, \frac{1}{10}\sqrt{2}e^{34}, \frac{1}{10}\sqrt{14}e^{13}, \frac{1}{10}\sqrt{14}e^{24},$ $\frac{1}{10}\sqrt{2}e^{25} + \frac{1}{10}\sqrt{2}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, 0, 0, 0, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{2}e^2 \otimes e_7 - \frac{3}{10}\sqrt{2}e^3 \otimes e_8$	{123456, 1478, 2689}
951:50	$0, 0, 0, 0, \frac{1}{43}\sqrt{70}e^{12}, \frac{1}{43}\sqrt{70}e^{34}, \frac{1}{43}\sqrt{266}e^{13}, \frac{1}{43}\sqrt{266}e^{24},$ $\frac{2}{43}\sqrt{14}e^{25} + \frac{2}{43}\sqrt{14}e^{36}$	$(\frac{9}{43}, -\frac{7}{43}, -\frac{7}{43}, \frac{9}{43}, \frac{2}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{5}{43})$ $+ \frac{2}{43}\sqrt{70}e^1 \otimes e_8 + \frac{2}{43}\sqrt{70}e^4 \otimes e_7$	{1234569, 2378}
951:51	$0, 0, 0, 0, \frac{70}{167}\sqrt{2}e^{12}, \frac{7}{167}\sqrt{86}e^{34}, \frac{49}{167}\sqrt{6}e^{13},$ $\frac{14}{167}\sqrt{58}e^{14} + \frac{14}{167}\sqrt{85}e^{23}, \frac{14}{167}\sqrt{23}e^{15} + \frac{7}{167}\sqrt{194}e^{36}$	$(-\frac{35}{167}, \frac{77}{167}, -\frac{35}{167}, \frac{77}{167}, \frac{42}{167}, \frac{42}{167}, -\frac{70}{167}, \frac{42}{167}, \frac{7}{167})$ $+ \frac{7}{167}\sqrt{85}e^2 \otimes e_7$	{1567, 378}
951:52	$0, 0, 0, 0, \frac{9}{178}\sqrt{7}e^{12}, \frac{117}{178}e^{34}, \frac{9}{178}\sqrt{182}e^{13},$ $\frac{9}{178}\sqrt{183}e^{14} + \frac{18}{89}\sqrt{10}e^{23}, \frac{9}{178}\sqrt{93}e^{25} + \frac{9}{178}\sqrt{2}e^{36}$	$(-\frac{27}{89}, \frac{27}{89}, -\frac{9}{89}, \frac{45}{89}, 0, \frac{36}{89}, -\frac{36}{89}, \frac{18}{89}, \frac{27}{89})$ $+ \frac{9}{178}\sqrt{591}e^4 \otimes e_7$	{178, 45689}
951:52	$0, 0, 0, 0, \frac{6}{287}\sqrt{551}e^{12}, \frac{15}{287}\sqrt{38}e^{34}, \frac{3}{287}\sqrt{4142}e^{13},$ $\frac{18}{287}\sqrt{57}e^{14} + \frac{6}{287}\sqrt{551}e^{23}, \frac{6}{287}\sqrt{969}e^{25} + \frac{3}{287}\sqrt{2926}e^{36}$	$(-\frac{75}{287}, \frac{69}{287}, -\frac{27}{287}, \frac{117}{287}, -\frac{6}{287}, \frac{90}{287}, -\frac{102}{287}, \frac{6}{41}, \frac{9}{41})$ $+ \frac{3}{287}\sqrt{9462}e^2 \otimes e_7$	{2568, 378}
951:53	$0, 0, 0, 0, \frac{1}{45}\sqrt{759}e^{12}, \frac{1}{45}\sqrt{66}e^{34}, \frac{2}{15}\sqrt{22}e^{13},$ $\frac{1}{45}\sqrt{462}e^{14} + \frac{11}{45}\sqrt{3}e^{23}, \frac{1}{45}\sqrt{858}e^{25} + \frac{1}{45}\sqrt{33}e^{46}$	$(-\frac{1}{5}, \frac{1}{3}, -\frac{1}{5}, \frac{1}{3}, \frac{2}{15}, \frac{2}{15}, -\frac{2}{5}, \frac{2}{15}, \frac{7}{15})$ $+ \frac{1}{3}\sqrt{11}e^2 \otimes e_7$	{15679, 378}
951:57	$0, 0, 0, 0, \frac{7}{745}\sqrt{1662}e^{12}, \frac{14}{745}\sqrt{777}e^{34}, \frac{14}{745}\sqrt{282}e^{13}, \frac{14}{745}\sqrt{1041}e^{23},$ $\frac{14}{745}\sqrt{1041}e^{14} + \frac{42}{745}\sqrt{53}e^{25} + \frac{14}{745}\sqrt{618}e^{36}$	$(\frac{28}{149}, -\frac{77}{745}, \frac{14}{149}, -\frac{154}{745}, \frac{63}{745}, -\frac{84}{745}, \frac{42}{149}, -\frac{7}{745}, -\frac{14}{745})$ $+ \frac{21}{745}\sqrt{482}e^1 \otimes e_8$	{268, 3578}
951:57	$0, 0, 0, 0, \frac{39}{917}\sqrt{206}e^{12}, \frac{156}{917}\sqrt{2}e^{34}, \frac{13}{917}\sqrt{2022}e^{13}, \frac{13}{917}\sqrt{258}e^{23},$ $\frac{52}{917}\sqrt{114}e^{14} + \frac{156}{917}\sqrt{19}e^{25} + \frac{52}{917}\sqrt{39}e^{36}$	$(-\frac{208}{917}, \frac{195}{917}, -\frac{104}{917}, \frac{390}{917}, -\frac{13}{917}, \frac{286}{917}, -\frac{312}{917}, \frac{13}{131}, \frac{26}{131})$ $+ \frac{117}{917}\sqrt{58}e^2 \otimes e_7$	{2456, 347}
951:57	$0, 0, 0, 0, \frac{51}{887}\sqrt{78}e^{12}, \frac{102}{887}\sqrt{22}e^{34}, \frac{170}{887}\sqrt{15}e^{13}, \frac{34}{887}\sqrt{6}e^{23},$ $\frac{119}{887}\sqrt{30}e^{14} + \frac{102}{887}e^{25} + \frac{17}{887}\sqrt{714}e^{36}$	$(-\frac{238}{887}, \frac{255}{887}, -\frac{119}{887}, \frac{510}{887}, \frac{17}{887}, \frac{391}{887}, -\frac{357}{887}, \frac{136}{887}, \frac{272}{887})$ $+ \frac{51}{887}\sqrt{498}e^4 \otimes e_7$	{123458, 134}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:57	$0, 0, 0, 0, \frac{28}{733}\sqrt{159e^{12}}, \frac{7}{733}\sqrt{1110e^{34}}, \frac{28}{733}\sqrt{69e^{13}}, \frac{56}{733}\sqrt{69e^{23}},$ $\frac{56}{733}\sqrt{69e^{14}} + \frac{21}{733}\sqrt{258e^{25}} + \frac{7}{733}\sqrt{1770e^{36}}$	$(-\frac{112}{733}, \frac{91}{733}, -\frac{56}{733}, \frac{182}{733}, -\frac{21}{733}, \frac{126}{733}, -\frac{168}{733}, \frac{35}{733}, \frac{70}{733})$ $+ \frac{21}{733}\sqrt{478e^4} \otimes e_8$	{2678, 358}
951:58	$0, 0, 0, 0, \frac{22}{571}\sqrt{115e^{12}}, \frac{110}{571}\sqrt{2e^{34}}, \frac{22}{571}\sqrt{155e^{13}}, \frac{22}{571}\sqrt{254e^{24}},$ $\frac{88}{571}\sqrt{14e^{15}} + \frac{22}{571}\sqrt{183e^{23}} + \frac{22}{571}\sqrt{73e^{46}}$	$(\frac{77}{571}, -\frac{110}{571}, \frac{154}{571}, -\frac{55}{571}, -\frac{33}{571}, \frac{99}{571}, \frac{231}{571}, -\frac{165}{571}, \frac{44}{571})$ $+ \frac{66}{571}\sqrt{55e^1} \otimes e_8$	{123469, 235789}
951:58	$0, 0, 0, 0, \frac{11}{871}\sqrt{210e^{12}}, \frac{22}{871}\sqrt{685e^{34}}, \frac{110}{871}\sqrt{35e^{13}}, \frac{110}{871}\sqrt{35e^{24}},$ $\frac{22}{871}\sqrt{295e^{15}} + \frac{66}{871}\sqrt{65e^{23}} + \frac{22}{871}\sqrt{295e^{46}}$	$(-\frac{99}{871}, \frac{308}{871}, -\frac{198}{871}, \frac{154}{871}, \frac{209}{871}, -\frac{44}{871}, -\frac{297}{871}, \frac{462}{871}, \frac{110}{871})$ $+ \frac{11}{871}\sqrt{7590e^2} \otimes e_7$	{1478, 167}
951:64	$0, 0, 0, 0, -\frac{3}{53}\sqrt{61e^{12}}, \frac{3}{53}\sqrt{61e^{13}}, \frac{6}{53}\sqrt{19e^{14}}, \frac{6}{53}\sqrt{26e^{23}},$ $\frac{3}{53}\sqrt{71e^{17}} + \frac{3}{53}\sqrt{42e^{25}} + \frac{3}{53}\sqrt{42e^{36}}$	$(-\frac{9}{53}, \frac{3}{53}, \frac{3}{53}, \frac{15}{53}, -\frac{6}{53}, -\frac{6}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{3}{53})$ $+ \frac{9}{53}\sqrt{11e^4} \otimes e_8$	{1234569, 149, 268, 1234569, 149, 268}
951:64	$0, 0, 0, 0, \frac{3}{53}\sqrt{61e^{12}}, \frac{3}{53}\sqrt{61e^{13}}, \frac{6}{53}\sqrt{19e^{14}}, \frac{6}{53}\sqrt{26e^{23}},$ $\frac{3}{53}\sqrt{71e^{17}} + \frac{3}{53}\sqrt{42e^{25}} + \frac{3}{53}\sqrt{42e^{36}}$	$(-\frac{9}{53}, \frac{3}{53}, \frac{3}{53}, \frac{15}{53}, -\frac{6}{53}, -\frac{6}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{3}{53})$ $+ \frac{9}{53}\sqrt{11e^4} \otimes e_8$	{1234569, 149, 268, 1234569, 149, 268}
951:64	$0, 0, 0, 0, -\frac{15}{236}\sqrt{158e^{12}}, \frac{15}{236}\sqrt{158e^{13}}, \frac{15}{236}\sqrt{5e^{14}}, \frac{15}{236}\sqrt{106e^{23}},$ $\frac{15}{236}\sqrt{26e^{17}} + \frac{15}{236}\sqrt{39e^{25}} + \frac{15}{236}\sqrt{39e^{36}}$	$(\frac{105}{236}, -\frac{15}{472}, -\frac{15}{472}, -\frac{30}{59}, \frac{195}{472}, \frac{195}{472}, -\frac{15}{236}, -\frac{15}{236}, \frac{45}{118})$ $+ \frac{45}{118}\sqrt{11e^1} \otimes e_4$	{12389, 1269, 1359, 15689, 234568, 245, 346, 48, 12389, 1269, 1359, 15689, 234568, 245, 346, 48}
951:64	$0, 0, 0, 0, \frac{15}{236}\sqrt{158e^{12}}, \frac{15}{236}\sqrt{158e^{13}}, \frac{15}{236}\sqrt{5e^{14}}, \frac{15}{236}\sqrt{106e^{23}},$ $\frac{15}{236}\sqrt{26e^{17}} + \frac{15}{236}\sqrt{39e^{25}} + \frac{15}{236}\sqrt{39e^{36}}$	$(\frac{105}{236}, -\frac{15}{472}, -\frac{15}{472}, -\frac{30}{59}, \frac{195}{472}, \frac{195}{472}, -\frac{15}{236}, -\frac{15}{236}, \frac{45}{118})$ $+ \frac{45}{118}\sqrt{11e^1} \otimes e_4$	{12389, 1269, 15689, 234568, 245, 48, 12389, 1269, 15689, 234568, 245, 48}
951:64	$0, 0, 0, 0, \frac{15}{236}\sqrt{158e^{12}}, \frac{15}{236}\sqrt{158e^{13}}, \frac{15}{236}\sqrt{5e^{14}}, \frac{15}{236}\sqrt{106e^{23}},$ $\frac{15}{236}\sqrt{26e^{17}} + \frac{15}{236}\sqrt{39e^{25}} + \frac{15}{236}\sqrt{39e^{36}}$	$(\frac{105}{236}, -\frac{15}{472}, -\frac{15}{472}, -\frac{30}{59}, \frac{195}{472}, \frac{195}{472}, -\frac{15}{236}, -\frac{15}{236}, \frac{45}{118})$ $- \frac{45}{118}\sqrt{11e^1} \otimes e_4$	{12389, 1269, 15689, 234568, 245, 48, 12389, 1269, 15689, 234568, 245, 48}
951:64	$0, 0, 0, 0, -\frac{12}{79}\sqrt{6e^{12}}, \frac{12}{79}\sqrt{6e^{13}}, \frac{3}{79}\sqrt{222e^{14}}, \frac{3}{79}\sqrt{318e^{23}},$ $\frac{3}{79}\sqrt{318e^{17}} + \frac{36}{79}e^{25} + \frac{36}{79}e^{36}$	$(\frac{21}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{27}{79}, \frac{18}{79}, \frac{18}{79}, -\frac{6}{79}, -\frac{6}{79}, \frac{15}{79})$ $+ \frac{9}{79}\sqrt{46e^1} \otimes e_8$	{1234569, 149, 268, 1234569, 149, 268}
951:64	$0, 0, 0, 0, \frac{12}{79}\sqrt{6e^{12}}, \frac{12}{79}\sqrt{6e^{13}}, \frac{3}{79}\sqrt{222e^{14}}, \frac{3}{79}\sqrt{318e^{23}},$ $\frac{3}{79}\sqrt{318e^{17}} + \frac{36}{79}e^{25} + \frac{36}{79}e^{36}$	$(\frac{21}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{27}{79}, \frac{18}{79}, \frac{18}{79}, -\frac{6}{79}, -\frac{6}{79}, \frac{15}{79})$ $+ \frac{9}{79}\sqrt{46e^1} \otimes e_8$	{1234569, 149, 268, 1234569, 149, 268}
951:66	$0, 0, 0, 0, \frac{6}{79}\sqrt{57e^{12}}, \frac{3}{79}\sqrt{114e^{13}}, \frac{6}{79}\sqrt{39e^{24}}, \frac{3}{79}\sqrt{282e^{23}},$ $\frac{9}{79}\sqrt{34e^{15}} + \frac{3}{79}\sqrt{222e^{27}} + \frac{18}{79}\sqrt{3e^{36}}$	$(\frac{9}{79}, -\frac{15}{79}, -\frac{3}{79}, \frac{33}{79}, -\frac{6}{79}, \frac{6}{79}, \frac{18}{79}, -\frac{18}{79}, \frac{3}{79})$ $+ \frac{36}{79}\sqrt{3e^1} \otimes e_8$	{1234679, 378}
951:66	$0, 0, 0, 0, \frac{66}{1021}\sqrt{59e^{12}}, \frac{33}{1021}\sqrt{122e^{13}}, \frac{66}{1021}\sqrt{131e^{24}},$ $\frac{33}{1021}\sqrt{706e^{23}}, \frac{99}{1021}\sqrt{26e^{15}} + \frac{33}{1021}\sqrt{62e^{27}} + \frac{198}{1021}\sqrt{5e^{36}}$	$(\frac{231}{1021}, -\frac{297}{1021}, -\frac{33}{1021}, \frac{759}{1021}, \frac{66}{1021}, \frac{198}{1021}, \frac{462}{1021}, -\frac{330}{1021}, \frac{165}{1021})$ $+ \frac{66}{1021}\sqrt{426e^4} \otimes e_8$	{13689, 234}
951:66	$0, 0, 0, 0, \frac{132}{395}\sqrt{5e^{12}}, \frac{24}{395}\sqrt{115e^{13}}, \frac{12}{395}\sqrt{365e^{24}}, \frac{12}{395}\sqrt{770e^{23}},$ $\frac{12}{395}\sqrt{285e^{15}} + \frac{12}{395}\sqrt{215e^{27}} + \frac{12}{395}\sqrt{330e^{36}}$	$(-\frac{6}{79}, \frac{30}{79}, \frac{12}{79}, -\frac{42}{79}, \frac{24}{79}, \frac{6}{79}, -\frac{12}{79}, \frac{42}{79}, \frac{18}{79})$ $- \frac{12}{395}\sqrt{1695e^2} \otimes e_4$	{12369, 1289, 348, 46}
951:66	$0, 0, 0, 0, \frac{132}{395}\sqrt{5e^{12}}, \frac{24}{395}\sqrt{115e^{13}}, \frac{12}{395}\sqrt{365e^{24}}, \frac{12}{395}\sqrt{770e^{23}},$ $\frac{12}{395}\sqrt{285e^{15}} + \frac{12}{395}\sqrt{215e^{27}} + \frac{12}{395}\sqrt{330e^{36}}$	$(-\frac{6}{79}, \frac{30}{79}, \frac{12}{79}, -\frac{42}{79}, \frac{24}{79}, \frac{6}{79}, -\frac{12}{79}, \frac{42}{79}, \frac{18}{79})$ $+ \frac{12}{395}\sqrt{1695e^2} \otimes e_4$	{12369, 1289, 348, 46}
951:67	$0, 0, 0, 0, -\frac{68}{1405}\sqrt{35e^{12}}, \frac{272}{1405}\sqrt{3e^{13}}, \frac{17}{1405}\sqrt{1518e^{14}},$ $\frac{17}{1405}\sqrt{1630e^{23}}, \frac{68}{1405}\sqrt{26e^{16}} + \frac{68}{1405}\sqrt{47e^{25}} + \frac{17}{1405}\sqrt{1326e^{47}}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{289}{1405}, -\frac{17}{1405}, \frac{238}{1405}, -\frac{34}{1405}, \frac{238}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+ \frac{17}{1405}\sqrt{2526e^4} \otimes e_8$	{1234569, 136789, 268, 4567, 1234569, 136789, 268, 4567}
951:67	$0, 0, 0, 0, \frac{68}{1405}\sqrt{35e^{12}}, \frac{272}{1405}\sqrt{3e^{13}}, \frac{17}{1405}\sqrt{1518e^{14}},$ $\frac{17}{1405}\sqrt{1630e^{23}}, \frac{68}{1405}\sqrt{26e^{16}} + \frac{68}{1405}\sqrt{47e^{25}} + \frac{17}{1405}\sqrt{1326e^{47}}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{289}{1405}, -\frac{17}{1405}, \frac{238}{1405}, -\frac{34}{1405}, \frac{238}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+ \frac{17}{1405}\sqrt{2526e^4} \otimes e_8$	{1234569, 136789, 268, 4567, 1234569, 136789, 268, 4567}
951:69	$0, 0, 0, 0, \frac{49}{1791}\sqrt{518e^{23}}, \frac{98}{5373}\sqrt{3130e^{12}}, \frac{98}{5373}\sqrt{13e^{13}}, \frac{98}{5373}\sqrt{1159e^{24}},$ $\frac{49}{5373}\sqrt{196e^{16}} + \frac{49}{5373}\sqrt{4694e^{25}} + \frac{196}{5373}\sqrt{290e^{47}}$	$(\frac{1519}{5373}, -\frac{49}{5373}, -\frac{539}{1791}, \frac{245}{1791}, \frac{490}{1791}, -\frac{98}{5373}, \frac{686}{5373}, -\frac{1666}{5373}, \frac{1421}{5373})$ $+ \frac{49}{5373}\sqrt{9370e^4} \otimes e_8$	{125789, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
951:70	$0, 0, 0, 0, -\frac{4}{81}\sqrt{15}e^{12}, -\frac{4}{81}\sqrt{15}e^{13}, \frac{1}{81}\sqrt{430}e^{14}, \frac{1}{81}\sqrt{590}e^{23},$ $\frac{4}{81}\sqrt{15}e^{25} + \frac{4}{81}\sqrt{15}e^{36} + \frac{1}{81}\sqrt{430}e^{47}$	$(\frac{11}{81}, -\frac{5}{81}, -\frac{5}{81}, -\frac{5}{81}, \frac{2}{27}, \frac{2}{27}, \frac{2}{27}, -\frac{10}{81}, \frac{1}{81})$ $+ \frac{5}{81}\sqrt{30}e^4 \otimes e_8$	{1234569, 125789, 149, 2347, 268, 4567, 1234569, 125789, 149, 2347, 268, 4567, 1234569, 125789, 149, 2347, 268, 4567}
951:70	$0, 0, 0, 0, \frac{4}{81}\sqrt{15}e^{12}, -\frac{4}{81}\sqrt{15}e^{13}, \frac{1}{81}\sqrt{430}e^{14}, \frac{1}{81}\sqrt{590}e^{23},$ $\frac{4}{81}\sqrt{15}e^{25} + \frac{4}{81}\sqrt{15}e^{36} + \frac{1}{81}\sqrt{430}e^{47}$	$(\frac{11}{81}, -\frac{5}{81}, -\frac{5}{81}, -\frac{5}{81}, \frac{2}{27}, \frac{2}{27}, \frac{2}{27}, -\frac{10}{81}, \frac{1}{81})$ $+ \frac{5}{81}\sqrt{30}e^4 \otimes e_8$	{1234569, 125789, 136789, 149, 2347, 268, 358, 4567, 1234569, 125789, 136789, 149, 2347, 268, 358, 4567, 1234569, 125789, 136789, 149, 2347, 268, 358, 4567}
951:70	$0, 0, 0, 0, \frac{4}{81}\sqrt{15}e^{12}, \frac{4}{81}\sqrt{15}e^{13}, \frac{1}{81}\sqrt{430}e^{14}, \frac{1}{81}\sqrt{590}e^{23},$ $\frac{4}{81}\sqrt{15}e^{25} + \frac{4}{81}\sqrt{15}e^{36} + \frac{1}{81}\sqrt{430}e^{47}$	$(\frac{11}{81}, -\frac{5}{81}, -\frac{5}{81}, -\frac{5}{81}, \frac{2}{27}, \frac{2}{27}, \frac{2}{27}, -\frac{10}{81}, \frac{1}{81})$ $+ \frac{5}{81}\sqrt{30}e^4 \otimes e_8$	{1234569, 125789, 149, 2347, 268, 4567, 1234569, 125789, 149, 2347, 268, 4567, 1234569, 125789, 149, 2347, 268, 4567}
951:73	$0, 0, 0, 0, -\frac{1}{12}\sqrt{30}e^{12}, \frac{1}{6}e^{13}, \frac{5}{12}\sqrt{2}e^{24}, \frac{1}{2}\sqrt{2}e^{23},$ $\frac{1}{12}\sqrt{2}e^{15} + \frac{1}{6}\sqrt{10}e^{36} + \frac{1}{12}\sqrt{78}e^{47}$	$(\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, \frac{1}{3}, 0, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{41}e^4 \otimes e_8$	{1234569, 125789, 358, 4567, 1234569, 125789, 358, 4567}
951:73	$0, 0, 0, 0, \frac{1}{12}\sqrt{30}e^{12}, \frac{1}{6}e^{13}, \frac{5}{12}\sqrt{2}e^{24}, \frac{1}{2}\sqrt{2}e^{23},$ $\frac{1}{12}\sqrt{2}e^{15} + \frac{1}{6}\sqrt{10}e^{36} + \frac{1}{12}\sqrt{78}e^{47}$	$(\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, \frac{1}{3}, 0, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{41}e^4 \otimes e_8$	{1234569, 125789, 358, 4567, 1234569, 125789, 358, 4567}
951:73	$0, 0, 0, 0, -\frac{1}{6}\sqrt{13}e^{12}, \frac{1}{6}e^{13}, \frac{1}{3}\sqrt{2}e^{24}, \frac{1}{2}\sqrt{2}e^{23},$ $\frac{1}{3}\sqrt{5}e^{15} + \frac{1}{6}\sqrt{10}e^{36} + \frac{1}{6}e^{47}$	$(\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, \frac{1}{3}, 0, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{41}e^1 \otimes e_8$	{1234679, 12369, 348, 378, 1234679, 12369, 348, 378}
951:73	$0, 0, 0, 0, \frac{1}{6}\sqrt{13}e^{12}, \frac{1}{6}e^{13}, \frac{1}{3}\sqrt{2}e^{24}, \frac{1}{2}\sqrt{2}e^{23},$ $\frac{1}{3}\sqrt{5}e^{15} + \frac{1}{6}\sqrt{10}e^{36} + \frac{1}{6}e^{47}$	$(\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, \frac{1}{3}, 0, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{41}e^1 \otimes e_8$	{1234679, 12369, 348, 378, 1234679, 12369, 348, 378}
951:75	$0, 0, 0, 0, -\frac{5}{297}\sqrt{690}e^{12}, \frac{10}{297}\sqrt{35}e^{13}, \frac{50}{297}\sqrt{11}e^{24}, \frac{5}{297}\sqrt{1430}e^{23},$ $\frac{5}{297}\sqrt{1070}e^{25} + \frac{10}{297}\sqrt{130}e^{36} + \frac{20}{297}\sqrt{95}e^{47}$	$(\frac{115}{297}, -\frac{5}{33}, -\frac{5}{33}, \frac{35}{297}, \frac{70}{297}, \frac{70}{297}, -\frac{10}{297}, -\frac{10}{33}, \frac{25}{297})$ $+ \frac{25}{297}\sqrt{106}e^4 \otimes e_8$	{1234569, 125789, 358, 4567, 1234569, 125789, 358, 4567}
951:75	$0, 0, 0, 0, \frac{5}{297}\sqrt{690}e^{12}, \frac{10}{297}\sqrt{35}e^{13}, \frac{50}{297}\sqrt{11}e^{24}, \frac{5}{297}\sqrt{1430}e^{23},$ $\frac{5}{297}\sqrt{1070}e^{25} + \frac{10}{297}\sqrt{130}e^{36} + \frac{20}{297}\sqrt{95}e^{47}$	$(\frac{115}{297}, -\frac{5}{33}, -\frac{5}{33}, \frac{35}{297}, \frac{70}{297}, \frac{70}{297}, -\frac{10}{297}, -\frac{10}{33}, \frac{25}{297})$ $+ \frac{25}{297}\sqrt{106}e^4 \otimes e_8$	{1234569, 125789, 358, 4567, 1234569, 125789, 358, 4567}
951:77	$0, 0, 0, 0, \frac{5}{49}\sqrt{14}e^{12}, \frac{6}{49}\sqrt{5}e^{13}, \frac{2}{49}\sqrt{55}e^{24}, \frac{5}{49}\sqrt{14}e^{34},$ $\frac{1}{49}\sqrt{330}e^{15} + \frac{4}{49}\sqrt{10}e^{27} + \frac{4}{49}\sqrt{10}e^{36}$	$(-\frac{1}{49}, \frac{1}{7}, \frac{3}{49}, -\frac{9}{49}, \frac{6}{49}, \frac{2}{49}, -\frac{2}{49}, -\frac{6}{49}, \frac{5}{49})$ $+ \frac{15}{49}\sqrt{2}e^1 \otimes e_8$	{1234679, 378}
951:77	$0, 0, 0, 0, \frac{25}{1069}\sqrt{638}e^{12}, \frac{25}{1069}\sqrt{526}e^{13}, \frac{25}{1069}\sqrt{166}e^{24},$ $\frac{25}{1069}\sqrt{1002}e^{34}, \frac{400}{1069}e^{15} + \frac{50}{1069}\sqrt{146}e^{27} + \frac{50}{1069}\sqrt{127}e^{36}$	$(-\frac{25}{1069}, \frac{375}{1069}, \frac{175}{1069}, -\frac{425}{1069}, \frac{350}{1069}, \frac{150}{1069}, -\frac{50}{1069}, -\frac{250}{1069}, \frac{325}{1069})$ $+ \frac{50}{1069}\sqrt{455}e^2 \otimes e_8$	{123469, 38}
951:78	$0, 0, 0, 0, -\frac{1}{61}\sqrt{78}e^{12}, \frac{2}{61}\sqrt{13}e^{13}, \frac{2}{61}\sqrt{15}e^{24}, \frac{1}{61}\sqrt{110}e^{34},$ $\frac{3}{61}\sqrt{10}e^{15} + \frac{4}{61}\sqrt{3}e^{36} + \frac{4}{61}\sqrt{3}e^{47}$	$(\frac{3}{61}, -\frac{5}{61}, -\frac{1}{61}, \frac{3}{61}, -\frac{2}{61}, \frac{2}{61}, -\frac{2}{61}, \frac{2}{61}, \frac{1}{61})$ $+ \frac{1}{61}\sqrt{114}e^1 \otimes e_8$	{1234679, 129, 378, 468, 1234679, 129, 378, 468}
951:78	$0, 0, 0, 0, \frac{1}{61}\sqrt{78}e^{12}, \frac{2}{61}\sqrt{13}e^{13}, \frac{2}{61}\sqrt{15}e^{24}, \frac{1}{61}\sqrt{110}e^{34},$ $\frac{3}{61}\sqrt{10}e^{15} + \frac{4}{61}\sqrt{3}e^{36} + \frac{4}{61}\sqrt{3}e^{47}$	$(\frac{3}{61}, -\frac{5}{61}, -\frac{1}{61}, \frac{3}{61}, -\frac{2}{61}, \frac{2}{61}, -\frac{2}{61}, \frac{2}{61}, \frac{1}{61})$ $+ \frac{1}{61}\sqrt{114}e^1 \otimes e_8$	{1234679, 129, 378, 468, 1234679, 129, 378, 468}
951:78	$0, 0, 0, 0, -\frac{13}{261}\sqrt{258}e^{12}, \frac{13}{261}\sqrt{230}e^{13}, \frac{13}{261}\sqrt{22}e^{24}, \frac{13}{261}\sqrt{330}e^{34},$ $\frac{26}{261}\sqrt{43}e^{15} + \frac{26}{87}\sqrt{3}e^{36} + \frac{26}{87}\sqrt{3}e^{47}$	$(-\frac{65}{261}, \frac{143}{261}, \frac{13}{87}, -\frac{65}{261}, \frac{26}{87}, -\frac{26}{261}, \frac{26}{87}, -\frac{26}{261}, \frac{13}{261})$ $+ \frac{26}{261}\sqrt{113}e^2 \otimes e_8$	{1234679, 129, 378, 468, 1234679, 129, 378, 468}
951:78	$0, 0, 0, 0, \frac{13}{261}\sqrt{258}e^{12}, \frac{13}{261}\sqrt{230}e^{13}, \frac{13}{261}\sqrt{22}e^{24}, \frac{13}{261}\sqrt{330}e^{34},$ $\frac{26}{261}\sqrt{43}e^{15} + \frac{26}{87}\sqrt{3}e^{36} + \frac{26}{87}\sqrt{3}e^{47}$	$(-\frac{65}{261}, \frac{143}{261}, \frac{13}{87}, -\frac{65}{261}, \frac{26}{87}, -\frac{26}{261}, \frac{26}{87}, -\frac{26}{261}, \frac{13}{261})$ $+ \frac{26}{261}\sqrt{113}e^2 \otimes e_8$	{1234679, 129, 378, 468, 1234679, 129, 378, 468}
94321:1	$0, 0, 0, 0, 0, \frac{2}{551}\sqrt{19779}e^{12}, \frac{4}{551}\sqrt{3470}e^{16}, \frac{2}{551}\sqrt{17697}e^{17},$ $\frac{12}{551}\sqrt{2082}e^{18}$	$(-\frac{74}{551}, \frac{153}{551}, 1, \frac{96}{551}, \frac{96}{551}, \frac{79}{551}, \frac{5}{551}, -\frac{69}{551}, -\frac{143}{551})$ $+ \frac{2}{551}\sqrt{157885}e^3 \otimes e_9$	{1245679, 124679, 12679, 13458, 1348, 138, 245789, 24789, 2789, 3456, 346, 36}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94321:1	$0, 0, 0, 0, 0, \frac{3}{205}\sqrt{986}e^{12}, \frac{6}{205}\sqrt{17}e^{16}, \frac{6}{205}\sqrt{17}e^{17}, \frac{3}{205}\sqrt{986}e^{18}$	$(-\frac{31}{205}, \frac{17}{41}, \frac{114}{205}, -\frac{68}{205}, \frac{23}{205}, \frac{54}{205}, \frac{23}{205}, -\frac{8}{205}, -\frac{39}{205})$ $+\frac{3}{205}\sqrt{3094}e^2 \otimes e_4 + \frac{3}{205}\sqrt{3094}e^3 \otimes e_9$	{1259, 129, 1345678, 134678, 25689, 2689, 3457, 347}
94321:1	$0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{40602}e^{12}, \frac{2}{1335}\sqrt{21306}e^{16}, \frac{2}{1335}\sqrt{62310}e^{17}, \frac{2}{1335}\sqrt{82410}e^{18}$	$(\frac{104}{1335}, -\frac{298}{1335}, \frac{21}{89}, -\frac{29}{445}, \frac{104}{267}, -\frac{194}{1335}, -\frac{6}{89}, \frac{14}{1335}, \frac{118}{1335})$ $+\frac{134}{445}e^3 \otimes e_4 + \frac{2}{1335}\sqrt{123414}e^1 \otimes e_2 + \frac{2}{1335}\sqrt{81606}e^5 \otimes e_9$	{1379, 1479, 235, 245}
94321:1	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{8517}e^{12}, \frac{4}{803}\sqrt{4342}e^{16}, \frac{2}{803}\sqrt{26553}e^{17}, \frac{12}{803}\sqrt{1002}e^{18}$	$(-\frac{2}{803}, \frac{45}{803}, \frac{371}{803}, -\frac{336}{803}, \frac{96}{803}, \frac{43}{803}, \frac{41}{803}, \frac{39}{803}, \frac{37}{803})$ $+\frac{10}{803}\sqrt{1837}e^3 \otimes e_9 + \frac{24}{803}\sqrt{501}e^1 \otimes e_4$	{12579, 1279, 13568, 1368, 2456789, 246789, 34, 345}
94321:1	$0, 0, 0, 0, 0, \frac{212}{581}\sqrt{2}e^{12}, \frac{8}{581}\sqrt{1749}e^{16}, \frac{4}{581}\sqrt{12137}e^{17}, \frac{4}{581}\sqrt{9805}e^{18}$	$(\frac{141}{581}, -\frac{283}{581}, \frac{96}{581}, \frac{96}{581}, \frac{96}{581}, -\frac{142}{581}, -\frac{1}{581}, \frac{20}{83}, \frac{281}{581})$ $+\frac{4}{581}\sqrt{25705}e^1 \otimes e_2$	{134579, 13479, 1379, 179, 2, 23, 234, 2345}
94321:1	$0, 0, 0, 0, 0, \frac{24}{473}\sqrt{38}e^{12}, \frac{12}{473}\sqrt{118}e^{16}, \frac{12}{473}\sqrt{118}e^{17}, \frac{24}{473}\sqrt{38}e^{18}$	$(-\frac{17}{473}, \frac{80}{473}, -\frac{161}{473}, -\frac{64}{473}, \frac{156}{473}, \frac{63}{473}, \frac{46}{473}, \frac{29}{473}, \frac{12}{473})$ $+\frac{24}{473}\sqrt{55}e^2 \otimes e_4 + \frac{24}{473}\sqrt{55}e^5 \otimes e_9 + \frac{36}{473}\sqrt{46}e^1 \otimes e_3$	{1279, 14568, 236789, 345}
94321:1	$0, 0, 0, 0, 0, \frac{4}{15}\sqrt{2}e^{12}, \frac{4}{15}\sqrt{3}e^{16}, \frac{4}{15}\sqrt{3}e^{17}, \frac{4}{15}\sqrt{2}e^{18}$	$(\frac{1}{15}, 0, \frac{2}{5}, -\frac{7}{15}, -\frac{2}{15}, \frac{1}{15}, \frac{2}{5}, \frac{1}{5}, \frac{4}{15})$ $+\frac{4}{5}e^1 \otimes e_4 + \frac{8}{15}e^3 \otimes e_5$	{12379, 12579, 1368, 1568, 2346789, 2456789, 34, 45}
94321:1	$0, 0, 0, 0, 0, \frac{1}{567}\sqrt{40602}e^{12}, \frac{1}{567}\sqrt{21306}e^{16}, \frac{1}{567}\sqrt{62310}e^{17}, \frac{1}{567}\sqrt{82410}e^{18}$	$(\frac{52}{567}, -\frac{149}{567}, \frac{260}{567}, \frac{19}{189}, \frac{19}{189}, -\frac{97}{567}, -\frac{5}{63}, \frac{1}{81}, \frac{59}{567})$ $+\frac{1}{567}\sqrt{123414}e^1 \otimes e_2 + \frac{1}{567}\sqrt{81606}e^3 \otimes e_9$	{14579, 1479, 179, 23, 234, 2345}
94321:1	$0, 0, 0, 0, 0, \frac{1}{449}\sqrt{19779}e^{12}, \frac{2}{449}\sqrt{3470}e^{16}, \frac{1}{449}\sqrt{17697}e^{17}, \frac{6}{449}\sqrt{2082}e^{18}$	$(-\frac{37}{449}, \frac{153}{898}, \frac{443}{898}, \frac{551}{898}, -\frac{251}{898}, \frac{79}{898}, \frac{5}{898}, -\frac{69}{898}, -\frac{143}{898})$ $+\frac{1}{449}\sqrt{157885}e^4 \otimes e_9 + \frac{347}{449}e^3 \otimes e_5$	{123679, 125679, 1348, 1458, 23789, 25789, 346, 456}
94321:1	$0, 0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{2}{803}\sqrt{26553}e^{16}, \frac{4}{803}\sqrt{4342}e^{17}, \frac{2}{803}\sqrt{8517}e^{18}$	$(-\frac{2}{803}, \frac{155}{803}, \frac{336}{803}, \frac{179}{803}, \frac{96}{803}, \frac{153}{803}, \frac{151}{803}, \frac{149}{803}, \frac{147}{803})$ $+\frac{10}{803}\sqrt{1837}e^2 \otimes e_4 + \frac{24}{803}\sqrt{501}e^1 \otimes e_3$	{12579, 1279, 14568, 1468, 2356789, 236789, 34, 345}
94321:1	$0, 0, 0, 0, 0, \frac{212}{793}\sqrt{2}e^{12}, \frac{8}{793}\sqrt{1749}e^{16}, \frac{4}{793}\sqrt{12137}e^{17}, \frac{4}{793}\sqrt{9805}e^{18}$	$(\frac{141}{793}, -\frac{283}{793}, \frac{308}{793}, -\frac{116}{793}, \frac{96}{793}, -\frac{142}{793}, -\frac{1}{793}, \frac{140}{793}, \frac{281}{793})$ $+\frac{424}{793}e^3 \otimes e_4 + \frac{4}{793}\sqrt{25705}e^1 \otimes e_2$	{13579, 1379, 14579, 1479, 23, 235, 24, 245}
94321:1	$0, 0, 0, 0, 0, \frac{12}{551}\sqrt{2082}e^{12}, \frac{2}{551}\sqrt{17697}e^{16}, \frac{4}{551}\sqrt{3470}e^{17}, \frac{2}{551}\sqrt{19779}e^{18}$	$(-\frac{74}{551}, \frac{335}{551}, -\frac{359}{551}, \frac{96}{551}, \frac{96}{551}, \frac{9}{551}, \frac{187}{551}, \frac{113}{551}, \frac{39}{551})$ $+\frac{2}{551}\sqrt{157885}e^2 \otimes e_3$	{1245789, 124789, 12789, 13456, 1346, 136, 245679, 24679, 2679, 3458, 348, 38}
94321:1	$0, 0, 0, 0, 0, \frac{4}{111}\sqrt{89}e^{12}, \frac{2}{111}\sqrt{534}e^{16}, \frac{2}{111}\sqrt{534}e^{17}, \frac{4}{111}\sqrt{89}e^{18}$	$(\frac{2}{111}, \frac{6}{37}, 1, -\frac{67}{111}, \frac{22}{111}, \frac{20}{111}, \frac{22}{111}, \frac{8}{37}, \frac{26}{111})$ $+\frac{178}{111}e^3 \otimes e_4$	{123579, 12379, 124579, 12479, 13568, 1368, 14568, 1468, 2356789, 236789, 2456789, 246789, 3, 35, 4, 45}
94321:1	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{3}e^{16}, \frac{4}{11}\sqrt{3}e^{17}, \frac{4}{11}\sqrt{2}e^{18}$	$(\frac{1}{11}, 0, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{1}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11})$ $+\frac{12}{11}e^1 \otimes e_3$	{124579, 12479, 1279, 14568, 1468, 168, 23456789, 2346789, 236789, 3, 34, 345}
94321:1	$0, 0, 0, 0, 0, \frac{6}{449}\sqrt{2082}e^{12}, \frac{1}{449}\sqrt{17697}e^{16}, \frac{2}{449}\sqrt{3470}e^{17}, \frac{1}{449}\sqrt{19779}e^{18}$	$(-\frac{37}{449}, \frac{335}{898}, \frac{443}{898}, -\frac{359}{898}, -\frac{251}{898}, \frac{261}{898}, \frac{187}{898}, \frac{113}{898}, \frac{39}{898})$ $+\frac{1}{449}\sqrt{157885}e^2 \otimes e_4 + \frac{347}{449}e^3 \otimes e_5$	{123789, 125789, 1346, 1456, 23679, 25679, 348, 458}
94321:2	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{4565}e^{12}, \frac{2}{181}\sqrt{249}e^{16}, \frac{1}{181}\sqrt{2490}e^{17}, \frac{1}{181}\sqrt{7802}e^{18} + \frac{1}{181}\sqrt{17430}e^{34}$	$(-\frac{83}{362}, \frac{126}{181}, -\frac{20}{181}, -\frac{20}{181}, \frac{65}{362}, \frac{169}{362}, \frac{43}{181}, \frac{3}{362}, -\frac{40}{181})$ $-\frac{3}{181}\sqrt{5478}e^2 \otimes e_9$	{1234578, 123478, 12578, 1278, 13569, 1369, 234567, 23467, 2567, 267, 3589, 389}
94321:2	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{4565}e^{12}, \frac{2}{181}\sqrt{249}e^{16}, \frac{1}{181}\sqrt{2490}e^{17}, \frac{1}{181}\sqrt{7802}e^{18} + \frac{1}{181}\sqrt{17430}e^{34}$	$(-\frac{83}{362}, \frac{126}{181}, -\frac{20}{181}, -\frac{20}{181}, \frac{65}{362}, \frac{169}{362}, \frac{43}{181}, \frac{3}{362}, -\frac{40}{181})$ $+\frac{3}{181}\sqrt{5478}e^2 \otimes e_9$	{1234578, 123478, 12578, 1278, 13569, 1369, 234567, 23467, 2567, 267, 3589, 389}
94321:2	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{506}e^{12}, \frac{4}{231}\sqrt{690}e^{16}, \frac{8}{231}\sqrt{138}e^{17}, \frac{8}{231}\sqrt{23}e^{18} + \frac{4}{231}\sqrt{690}e^{34}$	$(\frac{1}{33}, \frac{12}{77}, \frac{72}{77}, -\frac{152}{231}, \frac{47}{231}, \frac{43}{231}, \frac{50}{231}, \frac{19}{77}, \frac{64}{231})$ $+\frac{368}{231}e^3 \otimes e_4$	{123579, 12379, 124579, 12479, 2356789, 236789, 2456789, 246789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94321:2	$0, 0, 0, 0, 0, \frac{8}{4389}\sqrt{17281}e^{12}, \frac{20}{4389}\sqrt{1571}e^{16}, \frac{4}{4389}\sqrt{89547}e^{17},$ $\frac{4}{4389}\sqrt{317342}e^{18} + \frac{2}{4389}\sqrt{1052570}e^{34}$	$(-\frac{12}{209}, \frac{12}{77}, \frac{1409}{4389}, -\frac{1733}{4389}, \frac{2818}{4389}, \frac{144}{1463}, \frac{60}{1463}, -\frac{24}{1463}, -\frac{108}{1463})$ $+ \frac{2}{4389}\sqrt{3629010}e^5 \otimes e_9 + \frac{3142}{4389}e^3 \otimes e_4$	{123679, 124679, 23789, 24789}
94321:2	$0, 0, 0, 0, 0, \frac{3}{463}\sqrt{23898}e^{12}, \frac{1}{463}\sqrt{58038}e^{16}, \frac{1}{463}\sqrt{39830}e^{17},$ $\frac{1}{463}\sqrt{78522}e^{18} + \frac{1}{463}\sqrt{58038}e^{34}$	$(-\frac{52}{463}, \frac{274}{463}, \frac{33}{463}, \frac{33}{463}, -\frac{295}{463}, \frac{222}{463}, \frac{170}{463}, \frac{118}{463}, \frac{66}{463})$ $+ \frac{1}{463}\sqrt{431302}e^2 \otimes e_5$	{123789, 13456, 156, 23679, 3458, 58}
94321:2	$0, 0, 0, 0, 0, \frac{1}{1421}\sqrt{483062}e^{12}, \frac{4}{1421}\sqrt{33497}e^{16}, \frac{3}{1421}\sqrt{17630}e^{17},$ $\frac{4}{1421}\sqrt{40549}e^{18} + \frac{1}{1421}\sqrt{1886410}e^{34}$	$(\frac{122}{1421}, \frac{135}{1421}, \frac{886}{1421}, -\frac{263}{1421}, -\frac{877}{1421}, \frac{257}{1421}, \frac{379}{1421}, \frac{501}{1421}, \frac{89}{203})$ $+ \frac{1}{1421}\sqrt{4051374}e^3 \otimes e_5$	{12347, 1257, 13689, 145689, 234678, 25678, 39, 459}
94321:2	$0, 0, 0, 0, 0, \frac{104}{3859}\sqrt{163}e^{12}, \frac{52}{3859}\sqrt{371}e^{16}, \frac{52}{3859}\sqrt{1030}e^{17},$ $\frac{260}{3859}\sqrt{53}e^{18} + \frac{52}{3859}\sqrt{165}e^{34}$	$(\frac{364}{3859}, -\frac{988}{3859}, \frac{234}{3859}, \frac{234}{3859}, \frac{1820}{3859}, -\frac{624}{3859}, -\frac{260}{3859}, \frac{104}{3859}, \frac{468}{3859})$ $+ \frac{364}{3859}\sqrt{29}e^5 \otimes e_9 + \frac{52}{3859}\sqrt{2039}e^1 \otimes e_2$	{1379, 2345, 25}
94321:2	$0, 0, 0, 0, 0, \frac{1}{515}\sqrt{30666}e^{12}, \frac{4}{515}\sqrt{2959}e^{16}, \frac{1}{515}\sqrt{74782}e^{17},$ $\frac{8}{515}\sqrt{807}e^{18} + \frac{1}{515}\sqrt{22058}e^{34}$	$(\frac{94}{515}, -\frac{35}{103}, \frac{178}{515}, \frac{23}{515}, -\frac{91}{515}, -\frac{81}{515}, \frac{13}{515}, \frac{107}{515}, \frac{201}{515})$ $+ \frac{1}{515}\sqrt{83390}e^3 \otimes e_5 + \frac{4}{515}\sqrt{9953}e^1 \otimes e_2$	{1379, 14579, 234, 25}
94321:2	$0, 0, 0, 0, 0, \frac{104}{4535}\sqrt{163}e^{12}, \frac{52}{4535}\sqrt{371}e^{16}, \frac{52}{4535}\sqrt{1030}e^{17},$ $\frac{260}{907}\sqrt{53}e^{18} + \frac{52}{4535}\sqrt{165}e^{34}$	$(\frac{364}{4535}, -\frac{988}{4535}, \frac{182}{907}, -\frac{442}{4535}, \frac{364}{907}, -\frac{624}{4535}, -\frac{52}{907}, \frac{104}{4535}, \frac{468}{4535})$ $+ \frac{1352}{4535}e^3 \otimes e_4 + \frac{364}{4535}\sqrt{29}e^5 \otimes e_9 + \frac{52}{4535}\sqrt{2039}e^1 \otimes e_2$	{1379, 1479}
94321:2	$0, 0, 0, 0, 0, \frac{2}{3849}\sqrt{564526}e^{12}, \frac{4}{3849}\sqrt{156926}e^{16}, \frac{4}{3849}\sqrt{287358}e^{17},$ $\frac{2}{3849}\sqrt{1000658}e^{18} + \frac{2}{3849}\sqrt{181382}e^{34}$	$(\frac{658}{3849}, -\frac{460}{1283}, \frac{1645}{3849}, -\frac{131}{1283}, \frac{448}{3849}, -\frac{722}{3849}, -\frac{64}{3849}, \frac{198}{1283}, \frac{1252}{3849})$ $+ \frac{2038}{3849}e^3 \otimes e_4 + \frac{2}{3849}\sqrt{2427258}e^1 \otimes e_2$	{23, 235, 24, 245}
94321:2	$0, 0, 0, 0, 0, \frac{24}{4499}\sqrt{6629}e^{12}, \frac{168}{4499}\sqrt{21}e^{16}, \frac{24}{4499}\sqrt{1043}e^{17},$ $\frac{24}{4499}\sqrt{413}e^{18} + \frac{48}{4499}\sqrt{2590}e^{34}$	$(-\frac{504}{4499}, \frac{164}{409}, \frac{768}{4499}, -\frac{980}{4499}, -\frac{1248}{4499}, \frac{1300}{4499}, \frac{796}{4499}, \frac{292}{4499}, -\frac{212}{4499})$ $- \frac{24}{4499}\sqrt{15757}e^2 \otimes e_9 + \frac{48}{4499}\sqrt{3059}e^3 \otimes e_5$	{123478, 12578, 1369, 14569, 23467, 2567, 389, 4589}
94321:2	$0, 0, 0, 0, 0, \frac{24}{4499}\sqrt{6629}e^{12}, \frac{168}{4499}\sqrt{21}e^{16}, \frac{24}{4499}\sqrt{1043}e^{17},$ $\frac{24}{4499}\sqrt{413}e^{18} + \frac{48}{4499}\sqrt{2590}e^{34}$	$(-\frac{504}{4499}, \frac{164}{409}, \frac{768}{4499}, -\frac{980}{4499}, -\frac{1248}{4499}, \frac{1300}{4499}, \frac{796}{4499}, \frac{292}{4499}, -\frac{212}{4499})$ $+ \frac{24}{4499}\sqrt{15757}e^2 \otimes e_9 + \frac{48}{4499}\sqrt{3059}e^3 \otimes e_5$	{123478, 12578, 1369, 14569, 23467, 2567, 389, 4589}
94321:2	$0, 0, 0, 0, 0, \frac{1}{132}\sqrt{4565}e^{12}, \frac{1}{132}\sqrt{249}e^{16}, \frac{1}{264}\sqrt{2490}e^{17},$ $\frac{1}{264}\sqrt{7802}e^{18} + \frac{1}{264}\sqrt{17430}e^{34}$	$(-\frac{83}{528}, \frac{21}{44}, \frac{21}{88}, -\frac{103}{264}, \frac{65}{528}, \frac{169}{528}, \frac{43}{264}, \frac{1}{176}, -\frac{5}{33})$ $+ \frac{1}{88}\sqrt{5478}e^2 \otimes e_9 + \frac{83}{132}e^3 \otimes e_4$	{13569, 1369, 14569, 1469, 3589, 389, 4589, 489}
94321:2	$0, 0, 0, 0, 0, \frac{1}{132}\sqrt{4565}e^{12}, \frac{1}{132}\sqrt{249}e^{16}, \frac{1}{264}\sqrt{2490}e^{17},$ $\frac{1}{264}\sqrt{7802}e^{18} + \frac{1}{264}\sqrt{17430}e^{34}$	$(-\frac{83}{528}, \frac{21}{44}, \frac{21}{88}, -\frac{103}{264}, \frac{65}{528}, \frac{169}{528}, \frac{43}{264}, \frac{1}{176}, -\frac{5}{33})$ $- \frac{1}{88}\sqrt{5478}e^2 \otimes e_9 + \frac{83}{132}e^3 \otimes e_4$	{13569, 1369, 14569, 1469, 3589, 389, 4589, 489}
94321:2	$0, 0, 0, 0, 0, \frac{4}{1409}\sqrt{17281}e^{12}, \frac{10}{1409}\sqrt{1571}e^{16}, \frac{2}{1409}\sqrt{89547}e^{17},$ $\frac{2}{1409}\sqrt{317342}e^{18} + \frac{1}{1409}\sqrt{1052570}e^{34}$	$(-\frac{126}{1409}, \frac{342}{1409}, -\frac{81}{1409}, -\frac{81}{1409}, \frac{1}{1409}, \frac{216}{1409}, \frac{90}{1409}, -\frac{36}{1409}, -\frac{162}{1409})$ $+ \frac{1}{1409}\sqrt{3629010}e^5 \otimes e_9$	{123679, 13458, 158, 23789, 3456, 56}
94321:2	$0, 0, 0, 0, 0, \frac{1}{1415}\sqrt{564526}e^{12}, \frac{2}{1415}\sqrt{156926}e^{16}, \frac{2}{1415}\sqrt{287358}e^{17},$ $\frac{1}{1415}\sqrt{1000658}e^{18} + \frac{1}{1415}\sqrt{181382}e^{34}$	$(\frac{329}{1415}, -\frac{138}{283}, \frac{313}{1415}, \frac{313}{1415}, \frac{224}{1415}, -\frac{361}{1415}, -\frac{32}{1415}, \frac{297}{1415}, \frac{626}{1415})$ $+ \frac{1}{1415}\sqrt{2427258}e^1 \otimes e_2$	{134579, 13479, 1579, 179, 23, 235}
94321:2	$0, 0, 0, 0, 0, \frac{6}{1495}\sqrt{23898}e^{12}, \frac{2}{1495}\sqrt{58038}e^{16}, \frac{2}{1495}\sqrt{39830}e^{17},$ $\frac{2}{1495}\sqrt{78522}e^{18} + \frac{2}{1495}\sqrt{58038}e^{34}$	$(-\frac{8}{115}, \frac{548}{1495}, \frac{127}{299}, -\frac{503}{1495}, -\frac{118}{299}, \frac{444}{1495}, \frac{68}{299}, \frac{236}{1495}, \frac{132}{1495})$ $+ \frac{1138}{1495}e^3 \otimes e_4 + \frac{2}{1495}\sqrt{431302}e^2 \otimes e_5$	{123789, 124789, 23679, 24679}
94321:3	$0, 0, 0, 0, 0, \frac{22}{265}\sqrt{14}e^{12}, \frac{22}{265}\sqrt{11}e^{16}, \frac{11}{795}\sqrt{398}e^{17},$ $\frac{11}{795}\sqrt{510}e^{18} + \frac{11}{795}\sqrt{14}e^{23}$	$(-\frac{11}{318}, \frac{44}{265}, -\frac{22}{159}, -\frac{539}{1590}, \frac{88}{265}, \frac{209}{1590}, \frac{77}{795}, \frac{33}{530}, \frac{22}{795})$ $+ \frac{11}{795}\sqrt{746}e^5 \otimes e_9 + \frac{22}{795}\sqrt{347}e^1 \otimes e_4 + \frac{44}{795}\sqrt{46}e^2 \otimes e_3$	{1279, 246789}
94321:3	$0, 0, 0, 0, 0, \frac{6}{503}\sqrt{465}e^{12}, \frac{12}{503}\sqrt{30}e^{16}, \frac{12}{503}\sqrt{30}e^{17},$ $\frac{6}{503}\sqrt{465}e^{18} + \frac{126}{503}\sqrt{5}e^{23}$	$(-\frac{23}{503}, \frac{101}{503}, -\frac{92}{503}, \frac{279}{503}, -\frac{169}{503}, \frac{78}{503}, \frac{55}{503}, \frac{32}{503}, \frac{9}{503})$ $+ \frac{24}{503}\sqrt{210}e^2 \otimes e_5 + \frac{24}{503}\sqrt{210}e^4 \otimes e_9$	{1279, 14568, 26789, 45}
94321:3	$0, 0, 0, 0, 0, \frac{48}{3791}\sqrt{1457}e^{12}, \frac{8}{3791}\sqrt{33699}e^{16}, \frac{8}{3791}\sqrt{21385}e^{17},$ $\frac{8}{3791}\sqrt{15510}e^{18} + \frac{24}{3791}\sqrt{1786}e^{23}$	$(-\frac{137}{3791}, \frac{956}{3791}, -\frac{548}{3791}, -\frac{1641}{3791}, \frac{420}{3791}, \frac{819}{3791}, \frac{682}{3791}, \frac{545}{3791}, \frac{24}{223})$ $+ \frac{24}{3791}\sqrt{10763}e^1 \otimes e_4 + \frac{8}{3791}\sqrt{61570}e^2 \otimes e_3$	{13568, 1368, 34, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94321:3	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{321}e^{12}, \frac{2}{67}\sqrt{214}e^{16}, \frac{2}{67}\sqrt{214}e^{17},$ $\frac{1}{67}\sqrt{321}e^{18} + \frac{1}{67}\sqrt{749}e^{23}$	$(\frac{5}{134}, \frac{17}{134}, \frac{10}{67}, 1, -\frac{40}{67}, \frac{11}{67}, \frac{27}{134}, \frac{16}{67}, \frac{37}{134})$ $+ \frac{107}{67}e^4 \otimes e_5$	{12479, 12579, 1468, 1568, 246789, 256789, 4, 5}
94321:3	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{2226}e^{12}, \frac{1}{103}\sqrt{1722}e^{16}, \frac{2}{103}\sqrt{273}e^{17},$ $\frac{4}{103}\sqrt{21}e^{18} + \frac{1}{103}\sqrt{546}e^{23}$	$(\frac{3}{206}, \frac{17}{103}, \frac{6}{103}, -\frac{81}{206}, -\frac{25}{103}, \frac{37}{206}, \frac{20}{103}, \frac{43}{206}, \frac{23}{103})$ $+ \frac{15}{103}\sqrt{14}e^2 \otimes e_5 + \frac{2}{103}\sqrt{1113}e^1 \otimes e_4$	{1279, 1568, 246789, 45}
94321:3	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{21}e^{12}, \frac{2}{103}\sqrt{273}e^{16}, \frac{1}{103}\sqrt{1722}e^{17},$ $\frac{1}{103}\sqrt{2226}e^{18} + \frac{1}{103}\sqrt{546}e^{23}$	$(\frac{3}{206}, \frac{2}{103}, \frac{6}{103}, \frac{50}{103}, -\frac{81}{206}, \frac{7}{103}, \frac{5}{206}, \frac{13}{103}, \frac{8}{103})$ $+ \frac{15}{103}\sqrt{14}e^4 \otimes e_9 + \frac{2}{103}\sqrt{1113}e^1 \otimes e_5$	{1279, 1468, 256789, 45}
94321:3	$0, 0, 0, 0, 0, \frac{1}{373}\sqrt{15370}e^{12}, \frac{2}{373}\sqrt{265}e^{16}, \frac{5}{373}\sqrt{106}e^{17},$ $\frac{10}{373}\sqrt{265}e^{18} + \frac{1}{373}\sqrt{530}e^{23}$	$(-\frac{38}{373}, \frac{113}{373}, -\frac{152}{373}, \frac{226}{373}, \frac{44}{373}, \frac{75}{373}, \frac{37}{373}, -\frac{1}{373}, -\frac{39}{373})$ $+ \frac{2}{373}\sqrt{24115}e^4 \otimes e_9 + \frac{7}{373}\sqrt{1590}e^2 \otimes e_3$	{135679, 13679, 35789, 3789}
94321:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2759}e^{12}, \frac{4}{169}\sqrt{178}e^{16}, \frac{4}{169}\sqrt{445}e^{17},$ $\frac{2}{169}\sqrt{4717}e^{18} + \frac{14}{169}\sqrt{89}e^{23}$	$(-\frac{5}{169}, \frac{11}{169}, -\frac{20}{169}, 1, \frac{29}{169}, \frac{6}{169}, \frac{1}{169}, -\frac{4}{169}, -\frac{9}{169})$ $+ \frac{4}{169}\sqrt{3115}e^4 \otimes e_9$	{125679, 12679, 1458, 148, 25789, 2789, 456, 46}
94321:3	$0, 0, 0, 0, 0, \frac{2}{4361}\sqrt{644046}e^{12}, \frac{2}{4361}\sqrt{395259}e^{16}, \frac{4}{4361}\sqrt{15078}e^{17},$ $\frac{2}{4361}\sqrt{722667}e^{18} + \frac{2}{4361}\sqrt{1591806}e^{23}$	$(\frac{192}{4361}, \frac{67}{623}, \frac{768}{4361}, -\frac{1685}{4361}, -\frac{198}{623}, \frac{661}{4361}, \frac{853}{4361}, \frac{1045}{4361}, \frac{1237}{4361})$ $+ \frac{4}{4361}\sqrt{488958}e^3 \otimes e_5 + \frac{6}{4361}\sqrt{253095}e^2 \otimes e_4$	{125789, 1456, 25679, 458}
94321:3	$0, 0, 0, 0, 0, \frac{2}{143}\sqrt{1479}e^{12}, \frac{2}{143}\sqrt{1938}e^{16}, \frac{2}{143}\sqrt{1938}e^{17},$ $\frac{2}{143}\sqrt{1479}e^{18} + \frac{2}{143}\sqrt{561}e^{23}$	$(\frac{9}{143}, \frac{7}{143}, \frac{36}{143}, -\frac{93}{143}, \frac{25}{143}, \frac{16}{143}, \frac{25}{143}, \frac{34}{143}, \frac{43}{143})$ $+ \frac{2}{143}\sqrt{6018}e^1 \otimes e_4$	{123579, 12379, 13568, 1368, 23456789, 2346789, 34, 345}
94321:3	$0, 0, 0, 0, 0, \frac{3}{1307}\sqrt{193402}e^{12}, \frac{2}{1307}\sqrt{93423}e^{16}, \frac{1}{1307}\sqrt{337634}e^{17},$ $\frac{4}{1307}\sqrt{24585}e^{18} + \frac{3}{1307}\sqrt{22946}e^{23}$	$(-\frac{200}{1307}, \frac{839}{1307}, -\frac{800}{1307}, \frac{222}{1307}, \frac{222}{1307}, \frac{639}{1307}, \frac{439}{1307}, \frac{239}{1307}, \frac{39}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^2 \otimes e_3$	{13456, 1346, 136, 3458, 348, 38}
94321:3	$0, 0, 0, 0, 0, \frac{1}{271}\sqrt{12882}e^{12}, \frac{1}{271}\sqrt{15594}e^{16}, \frac{1}{271}\sqrt{15594}e^{17},$ $\frac{1}{271}\sqrt{12882}e^{18} + \frac{1}{271}\sqrt{69834}e^{23}$	$(\frac{42}{271}, -\frac{34}{271}, \frac{168}{271}, -\frac{171}{271}, \frac{50}{271}, \frac{8}{271}, \frac{50}{271}, \frac{92}{271}, \frac{134}{271})$ $+ \frac{1}{271}\sqrt{149838}e^3 \otimes e_4$	{1245689, 124689, 1457, 147, 2459, 249, 45678, 4678}
94321:3	$0, 0, 0, 0, 0, \frac{6}{4253}\sqrt{193402}e^{12}, \frac{4}{4253}\sqrt{93423}e^{16}, \frac{2}{4253}\sqrt{337634}e^{17},$ $\frac{8}{4253}\sqrt{24585}e^{18} + \frac{6}{4253}\sqrt{22946}e^{23}$	$(-\frac{400}{4253}, \frac{1678}{4253}, -\frac{1600}{4253}, \frac{2083}{4253}, -\frac{1195}{4253}, \frac{1278}{4253}, \frac{878}{4253}, \frac{478}{4253}, \frac{78}{4253})$ $+ \frac{2}{4253}\sqrt{3556630}e^2 \otimes e_3 + \frac{3278}{4253}e^4 \otimes e_5$	{1346, 1356, 348, 358}
94321:3	$0, 0, 0, 0, 0, \frac{16}{611}\sqrt{165}e^{12}, \frac{88}{611}\sqrt{10}e^{16}, \frac{88}{611}\sqrt{10}e^{17},$ $\frac{16}{611}\sqrt{165}e^{18} + \frac{16}{611}\sqrt{110}e^{23}$	$(\frac{55}{611}, -\frac{28}{611}, \frac{220}{611}, -\frac{265}{611}, -\frac{100}{611}, \frac{27}{611}, \frac{82}{611}, \frac{137}{611}, \frac{192}{611})$ $+ \frac{16}{611}\sqrt{455}e^3 \otimes e_5 + \frac{8}{611}\sqrt{3470}e^1 \otimes e_4$	{12579, 1568, 2456789, 45}
94321:3	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{4717}e^{12}, \frac{4}{169}\sqrt{445}e^{16}, \frac{4}{169}\sqrt{178}e^{17},$ $\frac{2}{169}\sqrt{2759}e^{18} + \frac{14}{169}\sqrt{89}e^{23}$	$(-\frac{5}{169}, \frac{67}{169}, -\frac{20}{169}, -\frac{111}{169}, \frac{29}{169}, \frac{62}{169}, \frac{57}{169}, \frac{4}{13}, \frac{47}{169})$ $+ \frac{4}{169}\sqrt{3115}e^2 \otimes e_4$	{125789, 12789, 1456, 146, 25679, 2679, 458, 48}
94321:3	$0, 0, 0, 0, 0, \frac{2}{4361}\sqrt{722667}e^{12}, \frac{4}{4361}\sqrt{15078}e^{16}, \frac{2}{4361}\sqrt{395259}e^{17},$ $\frac{2}{4361}\sqrt{644046}e^{18} + \frac{2}{4361}\sqrt{1591806}e^{23}$	$(\frac{192}{4361}, -\frac{377}{4361}, \frac{768}{4361}, \frac{2545}{4361}, -\frac{198}{623}, -\frac{185}{4361}, \frac{1}{623}, \frac{199}{4361}, \frac{391}{4361})$ $+ \frac{4}{4361}\sqrt{488958}e^3 \otimes e_5 + \frac{6}{4361}\sqrt{253095}e^4 \otimes e_9$	{125679, 1458, 25789, 456}
94321:4	$0, 0, 0, 0, 0, \frac{8}{3093}\sqrt{17213}e^{12}, \frac{8}{3093}\sqrt{31967}e^{16}, \frac{2}{3093}\sqrt{427866}e^{17},$ $\frac{2}{3093}\sqrt{24590}e^{18} + \frac{2}{3093}\sqrt{280326}e^{23} + \frac{2}{3093}\sqrt{418030}e^{45}$	$(\frac{130}{3093}, \frac{136}{1031}, \frac{520}{3093}, \frac{2923}{3093}, -\frac{665}{1031}, \frac{538}{3093}, \frac{668}{3093}, \frac{266}{1031}, \frac{928}{3093})$ $+ \frac{4918}{3093}e^4 \otimes e_5$	{12479, 12579, 246789, 256789}
94321:4	$0, 0, 0, 0, 0, \frac{516}{3049}\sqrt{37}e^{12}, \frac{86}{3049}\sqrt{318}e^{16}, \frac{86}{3049}\sqrt{266}e^{17},$ $\frac{172}{3049}\sqrt{105}e^{18} + \frac{258}{3049}\sqrt{29}e^{23} + \frac{774}{3049}\sqrt{5}e^{45}$	$(-\frac{430}{3049}, \frac{1978}{3049}, -\frac{1720}{3049}, \frac{129}{3049}, \frac{129}{3049}, \frac{1548}{3049}, \frac{1118}{3049}, \frac{688}{3049}, \frac{258}{3049})$ $+ \frac{86}{3049}\sqrt{2515}e^2 \otimes e_3$	{13456, 136, 3458, 38}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1361}\sqrt{74409}e^{12}, \frac{2}{1361}\sqrt{138605}e^{16}, \frac{1}{1361}\sqrt{323898}e^{17},$ $\frac{2}{1361}\sqrt{310767}e^{18} + \frac{5}{1361}\sqrt{43770}e^{26}$	$(-\frac{14}{1361}, -\frac{42}{1361}, 1, \frac{231}{1361}, \frac{231}{1361}, -\frac{56}{1361}, -\frac{70}{1361}, -\frac{84}{1361}, -\frac{98}{1361})$ $+ \frac{2}{1361}\sqrt{824335}e^3 \otimes e_9$	{13458, 1348, 138, 245789, 24789, 2789}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1441}\sqrt{122366}e^{12}, \frac{12}{1441}\sqrt{6018}e^{16}, \frac{1}{1441}\sqrt{800394}e^{17},$ $\frac{2}{1441}\sqrt{155465}e^{18} + \frac{1}{1441}\sqrt{330990}e^{26}$	$(\frac{56}{1441}, \frac{168}{1441}, -\frac{947}{1441}, \frac{247}{1441}, \frac{247}{1441}, \frac{224}{1441}, \frac{280}{1441}, \frac{336}{1441}, \frac{392}{1441})$ $+ \frac{2}{1441}\sqrt{598791}e^1 \otimes e_3$	{14568, 1468, 168, 23456789, 2346789, 236789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94321:5	$0, 0, 0, 0, 0, \frac{4}{3885}\sqrt{122366}e^{12}, \frac{8}{1295}\sqrt{6018}e^{16}, \frac{2}{3885}\sqrt{800394}e^{17}, \frac{4}{3885}\sqrt{155465}e^{18} + \frac{2}{3885}\sqrt{330990}e^{26}$	$(\frac{16}{555}, \frac{16}{185}, \frac{499}{1295}, -\frac{1894}{3885}, -\frac{509}{3885}, \frac{64}{555}, \frac{16}{111}, \frac{32}{185}, \frac{112}{555}) + \frac{2006}{3885}e^3 \otimes e_5 + \frac{4}{3885}\sqrt{598791}e^1 \otimes e_4$	{1368, 1568, 2346789, 2456789}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{104077}e^{12}, \frac{4}{1335}\sqrt{13598}e^{16}, \frac{2}{1335}\sqrt{34518}e^{17}, \frac{1}{445}\sqrt{1046}e^{18} + \frac{1}{1335}\sqrt{168406}e^{26}$	$(\frac{47}{1335}, \frac{47}{445}, -\frac{476}{1335}, -\frac{382}{1335}, \frac{53}{445}, \frac{188}{1335}, \frac{47}{267}, \frac{94}{445}, \frac{329}{1335}) + \frac{1}{1335}\sqrt{565886}e^2 \otimes e_4 + \frac{1}{1335}\sqrt{664210}e^1 \otimes e_3$	{12579, 1279, 34, 345}
94321:5	$0, 0, 0, 0, 0, \frac{4}{4181}\sqrt{74409}e^{12}, \frac{4}{4181}\sqrt{138605}e^{16}, \frac{2}{4181}\sqrt{323898}e^{17}, \frac{4}{4181}\sqrt{310767}e^{18} + \frac{10}{4181}\sqrt{43770}e^{26}$	$(-\frac{28}{4181}, -\frac{84}{4181}, \frac{17}{37}, \frac{2722}{4181}, -\frac{997}{4181}, -\frac{112}{4181}, -\frac{140}{4181}, -\frac{168}{4181}, -\frac{196}{4181}) + \frac{2918}{4181}e^3 \otimes e_5 + \frac{4}{4181}\sqrt{824335}e^4 \otimes e_9$	{1348, 1458, 23789, 25789}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1621}\sqrt{34221}e^{12}, \frac{2}{1621}\sqrt{63745}e^{16}, \frac{3}{1621}\sqrt{46970}e^{17}, \frac{2}{1621}\sqrt{142923}e^{18} + \frac{1}{1621}\sqrt{68442}e^{26}$	$(\frac{14}{1621}, \frac{42}{1621}, \frac{769}{1621}, -\frac{657}{1621}, \frac{195}{1621}, \frac{56}{1621}, \frac{70}{1621}, \frac{84}{1621}, \frac{98}{1621}) + \frac{2}{1621}\sqrt{192577}e^3 \otimes e_9 + \frac{2}{1621}\sqrt{285846}e^1 \otimes e_4$	{12579, 1279, 34, 345}
94321:5	$0, 0, 0, 0, 0, \frac{4}{3821}\sqrt{337038}e^{12}, \frac{4}{3821}\sqrt{7917}e^{16}, \frac{2}{3821}\sqrt{296322}e^{17}, \frac{312}{3821}\sqrt{29}e^{18} + \frac{2}{3821}\sqrt{1259934}e^{26}$	$(\frac{128}{3821}, \frac{384}{3821}, \frac{1537}{3821}, -\frac{1878}{3821}, -\frac{725}{3821}, \frac{512}{3821}, \frac{640}{3821}, \frac{768}{3821}, \frac{896}{3821}) + \frac{2262}{3821}e^3 \otimes e_5 + \frac{4}{3821}\sqrt{645801}e^2 \otimes e_4$	{1346789, 1456789, 2368, 2568}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1723}\sqrt{135590}e^{12}, \frac{2}{1723}\sqrt{57365}e^{16}, \frac{5}{1723}\sqrt{3874}e^{17}, \frac{4}{1723}\sqrt{745}e^{18} + \frac{2}{1723}\sqrt{928270}e^{26}$	$(\frac{16}{1723}, \frac{48}{1723}, \frac{857}{1723}, \frac{697}{1723}, \frac{169}{1723}, \frac{64}{1723}, \frac{80}{1723}, \frac{96}{1723}, \frac{112}{1723}) + \frac{2}{1723}\sqrt{322585}e^2 \otimes e_4 + \frac{4}{1723}\sqrt{64070}e^3 \otimes e_9$	{1259, 129, 3457, 347}
94321:5	$0, 0, 0, 0, 0, \frac{2}{1345}\sqrt{337038}e^{12}, \frac{2}{1345}\sqrt{7917}e^{16}, \frac{1}{1345}\sqrt{296322}e^{17}, \frac{156}{1345}\sqrt{29}e^{18} + \frac{1}{1345}\sqrt{1259934}e^{26}$	$(\frac{64}{1345}, \frac{192}{1345}, -\frac{939}{1345}, \frac{203}{1345}, \frac{203}{1345}, \frac{256}{1345}, \frac{64}{1345}, \frac{384}{1345}, \frac{448}{1345}) + \frac{2}{1345}\sqrt{645801}e^2 \otimes e_3$	{13456789, 1346789, 136789, 24568, 2468, 268}
94321:5	$0, 0, 0, 0, 0, \frac{74}{5331}\sqrt{505}e^{12}, \frac{74}{5331}\sqrt{149}e^{16}, \frac{37}{5331}\sqrt{858}e^{17}, \frac{222}{1777}\sqrt{3}e^{18} + \frac{37}{5331}\sqrt{1834}e^{26}$	$(\frac{74}{5331}, \frac{74}{1777}, -\frac{1295}{5331}, -\frac{1147}{5331}, \frac{629}{1777}, \frac{296}{5331}, \frac{370}{1777}, \frac{148}{5331}, \frac{518}{1777}) + \frac{148}{5331}\sqrt{206}e^2 \otimes e_4 + \frac{74}{1777}\sqrt{77}e^5 \otimes e_9 + \frac{37}{5331}\sqrt{898}e^1 \otimes e_3$	{1279, 345}
94321:5	$0, 0, 0, 0, 0, \frac{2}{339}\sqrt{3794}e^{12}, \frac{2}{339}\sqrt{4065}e^{16}, \frac{2}{113}\sqrt{542}e^{17}, \frac{4}{339}\sqrt{542}e^{18} + \frac{2}{339}\sqrt{4065}e^{26}$	$(\frac{13}{339}, \frac{13}{113}, 1, -\frac{203}{339}, \frac{68}{339}, \frac{52}{339}, \frac{65}{339}, \frac{26}{113}, \frac{91}{339}) + \frac{542}{339}e^3 \otimes e_4$	{123579, 12379, 124579, 12479, 3, 35, 4, 45}
94321:8	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{18} + \frac{1}{5}\sqrt{5}e^{26} + \frac{1}{15}\sqrt{35}e^{34}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0, 0, 0) + \frac{1}{15}\sqrt{165}e^5 \otimes e_9 + \frac{2}{3}e^3 \otimes e_4$	{23789, 24789}
94321:8	$0, 0, 0, 0, 0, \frac{6}{257}\sqrt{1362}e^{12}, \frac{6}{257}\sqrt{42}e^{16}, \frac{60}{257}\sqrt{3}e^{17}, \frac{18}{257}\sqrt{78}e^{18} + \frac{6}{257}\sqrt{1290}e^{26} + \frac{6}{257}\sqrt{42}e^{34}$	$(\frac{12}{257}, \frac{36}{257}, \frac{42}{257}, \frac{42}{257}, -\frac{180}{257}, \frac{48}{257}, \frac{60}{257}, \frac{72}{257}, \frac{84}{257}) + \frac{6}{257}\sqrt{2622}e^2 \otimes e_5$	{13456789, 156789, 2368}
94321:8	$0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{18} + \frac{3}{10}\sqrt{5}e^{26} + \frac{1}{10}\sqrt{35}e^{34}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0) + \frac{1}{10}\sqrt{165}e^5 \otimes e_9$	{13458, 158, 23789}
94321:8	$0, 0, 0, 0, 0, \frac{2}{3185}\sqrt{567530}e^{12}, \frac{2}{3185}\sqrt{784757}e^{16}, \frac{2}{3185}\sqrt{199614}e^{17}, \frac{4}{3185}\sqrt{183958}e^{18} + \frac{2}{3185}\sqrt{452067}e^{26} + \frac{8}{3185}\sqrt{154603}e^{34}$	$(\frac{179}{3185}, \frac{537}{3185}, \frac{1921}{3185}, -\frac{668}{3185}, -\frac{1993}{3185}, \frac{716}{3185}, \frac{179}{637}, \frac{1074}{3185}, \frac{179}{455}) + \frac{2}{3185}\sqrt{5066673}e^3 \otimes e_5$	{12347, 1257, 39, 459}
94321:8	$0, 0, 0, 0, 0, \frac{17}{49}\sqrt{2}e^{12}, \frac{2}{49}\sqrt{255}e^{16}, \frac{3}{49}\sqrt{102}e^{17}, \frac{2}{49}\sqrt{170}e^{18} + \frac{2}{49}\sqrt{102}e^{26} + \frac{1}{49}\sqrt{102}e^{34}$	$(\frac{2}{49}, \frac{6}{49}, \frac{1}{7}, \frac{1}{7}, -\frac{32}{49}, \frac{8}{49}, \frac{10}{49}, \frac{12}{49}, \frac{2}{7}) + \frac{9}{49}\sqrt{34}e^1 \otimes e_5$	{13468, 168, 2356789}
94321:8	$0, 0, 0, 0, 0, \frac{17}{33}\sqrt{2}e^{12}, \frac{1}{33}\sqrt{255}e^{16}, \frac{1}{66}\sqrt{102}e^{17}, \frac{1}{33}\sqrt{170}e^{18} + \frac{1}{33}\sqrt{102}e^{26} + \frac{1}{66}\sqrt{102}e^{34}$	$(\frac{1}{33}, \frac{1}{11}, \frac{4}{11}, -\frac{5}{33}, -\frac{16}{33}, \frac{4}{33}, \frac{5}{22}, \frac{2}{11}, \frac{7}{33}) + \frac{17}{33}e^3 \otimes e_4 + \frac{3}{22}\sqrt{34}e^1 \otimes e_5$	{2356789, 2456789}
94321:8	$0, 0, 0, 0, 0, \frac{6}{365}\sqrt{1362}e^{12}, \frac{6}{365}\sqrt{42}e^{16}, \frac{12}{73}\sqrt{3}e^{17}, \frac{18}{365}\sqrt{78}e^{18} + \frac{6}{365}\sqrt{1290}e^{26} + \frac{6}{365}\sqrt{42}e^{34}$	$(\frac{12}{365}, \frac{36}{365}, \frac{30}{73}, -\frac{66}{365}, -\frac{36}{73}, \frac{48}{365}, \frac{12}{365}, \frac{72}{365}, \frac{84}{365}) + \frac{216}{365}e^3 \otimes e_4 + \frac{6}{365}\sqrt{2622}e^2 \otimes e_5$	{2368, 2468}
94321:8	$0, 0, 0, 0, 0, \frac{28}{1047}\sqrt{221}e^{12}, \frac{28}{1047}\sqrt{255}e^{16}, \frac{14}{1047}\sqrt{102}e^{17}, \frac{28}{1047}\sqrt{17}e^{18} + \frac{14}{1047}\sqrt{510}e^{26} + \frac{28}{1047}\sqrt{255}e^{34}$	$(\frac{44}{1047}, \frac{44}{349}, \frac{329}{349}, -\frac{679}{1047}, \frac{214}{1047}, \frac{176}{1047}, \frac{220}{1047}, \frac{88}{349}, \frac{308}{1047}) + \frac{1666}{1047}e^3 \otimes e_4$	{123579, 12379, 124579, 12479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:1	$0, 0, 0, 0, 0, \frac{2}{883}\sqrt{21886}e^{12}, \frac{18}{883}\sqrt{186}e^{16}, \frac{2}{883}\sqrt{8742}e^{26}, \frac{12}{883}\sqrt{527}e^{17}$	$(-\frac{16}{883}, \frac{86}{883}, -\frac{264}{883}, -\frac{162}{883}, \frac{286}{883}, \frac{70}{883}, \frac{54}{883}, \frac{156}{883}, \frac{38}{883})$ $+ \frac{2}{883}\sqrt{24862}e^5 \otimes e_9 + \frac{2}{883}\sqrt{43338}e^1 \otimes e_3 + \frac{6}{883}\sqrt{3410}e^2 \otimes e_4$	{12578, 14689, 23679, 345}
9431:1	$0, 0, 0, 0, 0, \frac{2}{1601}\sqrt{142426}e^{12}, \frac{6}{1601}\sqrt{3009}e^{16}, \frac{17}{1601}\sqrt{2478}e^{26}, \frac{1}{1601}\sqrt{330990}e^{17}$	$(-\frac{200}{1601}, \frac{376}{1601}, \frac{779}{1601}, -\frac{627}{1601}, \frac{195}{1601}, \frac{176}{1601}, -\frac{24}{1601}, \frac{552}{1601}, -\frac{224}{1601})$ $+ \frac{2}{1601}\sqrt{412233}e^2 \otimes e_4 + \frac{4}{1601}\sqrt{73219}e^3 \otimes e_9$	{12589, 1289, 1345678, 134678, 2356, 236, 4579, 479}
9431:1	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{51}e^{12}, \frac{12}{95}\sqrt{3}e^{16}, \frac{36}{95}\sqrt{2}e^{26}, \frac{6}{95}\sqrt{51}e^{17}$	$(-\frac{18}{95}, \frac{27}{95}, \frac{39}{95}, -\frac{3}{95}, \frac{12}{95}, \frac{9}{95}, -\frac{9}{95}, \frac{36}{95}, -\frac{27}{95})$ $+ \frac{12}{95}\sqrt{42}e^2 \otimes e_9 + \frac{54}{95}e^3 \otimes e_4$	{2356, 236, 2456, 246, 3579, 379, 4579, 479}
9431:1	$0, 0, 0, 0, 0, \frac{2}{1779}\sqrt{100111}e^{12}, \frac{1}{1779}\sqrt{114002}e^{16}, \frac{1}{1779}\sqrt{351586}e^{26}, \frac{2}{1779}\sqrt{24429}e^{17}$	$(\frac{85}{1779}, \frac{4}{593}, -\frac{394}{1779}, -\frac{467}{1779}, \frac{196}{593}, \frac{97}{1779}, \frac{182}{1779}, \frac{109}{1779}, \frac{89}{593})$ $+ \frac{1}{1779}\sqrt{535522}e^1 \otimes e_3 + \frac{1}{593}\sqrt{45026}e^5 \otimes e_8 + \frac{4}{1779}\sqrt{37841}e^2 \otimes e_4$	{1278, 14689, 235679, 345}
9431:1	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{46}e^{12}, \frac{2}{177}\sqrt{345}e^{16}, \frac{2}{177}\sqrt{345}e^{26}, \frac{2}{177}\sqrt{2622}e^{17}$	$(-\frac{17}{177}, \frac{7}{59}, \frac{89}{177}, \frac{36}{59}, -\frac{49}{177}, \frac{4}{177}, -\frac{13}{177}, \frac{25}{177}, -\frac{10}{59})$ $+ \frac{46}{59}e^3 \otimes e_5 + \frac{4}{177}\sqrt{1518}e^4 \otimes e_9$	{12369, 12569, 1347, 1457, 2348, 2458, 36789, 56789}
9431:1	$0, 0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{5}e^{16}, \frac{2}{5}e^{26}, \frac{2}{5}e^{17}$	$(\frac{1}{20}, \frac{1}{10}, 1, -\frac{3}{5}, \frac{1}{5}, \frac{3}{20}, \frac{1}{5}, \frac{1}{4}, \frac{1}{4})$ $+ \frac{8}{5}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689, 235679, 23679, 245679, 24679, 3, 35, 4, 45}
9431:1	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{51}e^{12}, \frac{9}{17}\sqrt{2}e^{16}, \frac{3}{17}\sqrt{3}e^{26}, \frac{3}{34}\sqrt{51}e^{17}$	$(\frac{5}{34}, -\frac{1}{68}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{9}{68}, \frac{19}{17}, \frac{2}{68}, \frac{29}{68})$ $+ \frac{3}{17}\sqrt{42}e^1 \otimes e_3$	{12457, 1247, 127, 14569, 1469, 169, 23456789, 2346789, 236789, 3458, 348, 38}
9431:1	$0, 0, 0, 0, 0, \frac{2}{177}\sqrt{345}e^{12}, \frac{2}{59}\sqrt{46}e^{16}, \frac{2}{177}\sqrt{2622}e^{26}, \frac{2}{177}\sqrt{345}e^{17}$	$(\frac{16}{177}, -\frac{23}{177}, \frac{89}{177}, \frac{36}{59}, -\frac{49}{177}, -\frac{7}{177}, \frac{3}{59}, -\frac{10}{59}, \frac{25}{177})$ $+ \frac{46}{59}e^3 \otimes e_5 + \frac{4}{177}\sqrt{1518}e^4 \otimes e_8$	{12389, 12589, 13678, 15678, 2346, 2456, 3479, 4579}
9431:1	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{158821}e^{12}, \frac{16}{1641}\sqrt{1286}e^{16}, \frac{1}{1641}\sqrt{261058}e^{26}, \frac{1}{1641}\sqrt{204474}e^{17}$	$(\frac{62}{1641}, \frac{56}{547}, -\frac{581}{1641}, -\frac{475}{1641}, \frac{65}{547}, \frac{230}{1641}, \frac{292}{1641}, \frac{398}{1641}, \frac{118}{547})$ $+ \frac{2}{1641}\sqrt{215405}e^2 \otimes e_4 + \frac{4}{1641}\sqrt{62371}e^1 \otimes e_3$	{12578, 1278, 145689, 14689, 235679, 23679, 34, 345}
9431:1	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{206}e^{12}, \frac{2}{149}\sqrt{206}e^{16}, \frac{1}{149}\sqrt{5974}e^{26}, \frac{1}{149}\sqrt{5974}e^{17}$	$(-\frac{4}{149}, -\frac{8}{149}, \frac{83}{149}, \frac{83}{149}, \frac{17}{149}, -\frac{12}{149}, -\frac{16}{149}, -\frac{20}{149}, -\frac{20}{149})$ $+ \frac{2}{149}\sqrt{3399}e^3 \otimes e_8 + \frac{2}{149}\sqrt{3399}e^4 \otimes e_9$	{1234567, 123467, 1359, 139, 25789, 2789, 4568, 468}
9431:1	$0, 0, 0, 0, 0, \frac{1}{158}\sqrt{3081}e^{12}, \frac{1}{79}\sqrt{429}e^{16}, \frac{1}{79}\sqrt{429}e^{26}, \frac{1}{158}\sqrt{3081}e^{17}$	$(-\frac{13}{158}, \frac{53}{316}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, \frac{27}{316}, \frac{1}{316}, \frac{20}{79}, -\frac{25}{316})$ $+ \frac{1}{79}\sqrt{1365}e^1 \otimes e_3 + \frac{1}{79}\sqrt{1365}e^2 \otimes e_9$	{124578, 12478, 1278, 145689, 14689, 1689}
9431:1	$0, 0, 0, 0, 0, \frac{2}{355}\sqrt{3081}e^{12}, \frac{4}{355}\sqrt{429}e^{16}, \frac{4}{355}\sqrt{429}e^{26}, \frac{2}{355}\sqrt{3081}e^{17}$	$(-\frac{26}{355}, \frac{53}{355}, -\frac{104}{355}, -\frac{3}{355}, \frac{15}{71}, \frac{27}{355}, \frac{1}{355}, \frac{16}{71}, -\frac{5}{71})$ $+ \frac{4}{355}\sqrt{1365}e^1 \otimes e_3 + \frac{4}{355}\sqrt{1365}e^2 \otimes e_9 + \frac{78}{355}e^5 \otimes e_4$	{12478, 12578, 14689, 15689}
9431:1	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{54}\sqrt{345}e^{16}, \frac{1}{54}\sqrt{345}e^{26}, \frac{1}{54}\sqrt{2622}e^{17}$	$(-\frac{17}{108}, \frac{7}{36}, 1, \frac{5}{27}, \frac{5}{27}, \frac{1}{27}, -\frac{13}{108}, \frac{25}{108}, -\frac{5}{18})$ $+ \frac{1}{27}\sqrt{1518}e^3 \otimes e_9$	{124569, 12469, 1269, 13457, 1347, 137, 23458, 2348, 238, 456789, 46789, 6789}
9431:1	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{345}e^{12}, \frac{1}{18}\sqrt{46}e^{16}, \frac{1}{54}\sqrt{2622}e^{26}, \frac{1}{54}\sqrt{345}e^{17}$	$(\frac{4}{27}, -\frac{23}{108}, 1, \frac{5}{27}, \frac{5}{27}, -\frac{7}{108}, \frac{1}{12}, -\frac{5}{18}, \frac{25}{108})$ $+ \frac{1}{27}\sqrt{1518}e^3 \otimes e_8$	{124589, 12489, 1289, 145678, 14678, 1678, 23456, 2346, 236, 34579, 3479, 379}
9431:1	$0, 0, 0, 0, 0, \frac{2}{105}\sqrt{231}e^{12}, \frac{1}{35}\sqrt{55}e^{16}, \frac{8}{105}\sqrt{33}e^{26}, \frac{2}{105}\sqrt{231}e^{17}$	$(-\frac{11}{105}, \frac{2}{21}, \frac{26}{105}, -\frac{1}{15}, \frac{2}{5}, -\frac{1}{105}, -\frac{4}{35}, \frac{3}{35}, -\frac{23}{105})$ $+ \frac{11}{35}e^3 \otimes e_4 + \frac{1}{105}\sqrt{2145}e^5 \otimes e_8 + \frac{1}{35}\sqrt{341}e^2 \otimes e_9$	{2356, 2456, 3579, 4579}
9431:1	$0, 0, 0, 0, 0, \frac{2}{389}\sqrt{7161}e^{12}, \frac{7}{389}\sqrt{682}e^{16}, \frac{1}{389}\sqrt{14322}e^{26}, \frac{2}{389}\sqrt{7161}e^{17}$	$(\frac{55}{389}, -\frac{48}{389}, \frac{176}{389}, -\frac{162}{389}, \frac{51}{389}, \frac{7}{389}, \frac{62}{389}, -\frac{41}{389}, \frac{117}{389})$ $+ \frac{1}{389}\sqrt{92442}e^1 \otimes e_4 + \frac{5}{389}\sqrt{2170}e^3 \otimes e_8$	{12578, 1278, 15689, 1689, 2345679, 234679, 34, 345}
9431:1	$0, 0, 0, 0, 0, \frac{14}{2153}\sqrt{4370}e^{12}, \frac{266}{2153}\sqrt{5}e^{16}, \frac{7}{2153}\sqrt{29678}e^{26}, \frac{7}{2153}\sqrt{3154}e^{17}$	$(\frac{24}{2153}, \frac{56}{2153}, \frac{1067}{2153}, -\frac{875}{2153}, \frac{211}{2153}, \frac{80}{2153}, \frac{104}{2153}, \frac{136}{2153}, \frac{128}{2153})$ $+ \frac{14}{2153}\sqrt{10317}e^2 \otimes e_4 + \frac{28}{2153}\sqrt{2033}e^3 \otimes e_8$	{1258, 128, 1456789, 146789, 23569, 2369, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:1	$0, 0, 0, 0, 0, \frac{2}{529}\sqrt{7106}e^{12}, \frac{6}{529}\sqrt{374}e^{16}, \frac{51}{529}\sqrt{22}e^{26}, \frac{5}{529}\sqrt{374}e^{17}$	$(-\frac{20}{529}, \frac{24}{529}, \frac{215}{529}, -\frac{163}{529}, \frac{151}{529}, \frac{4}{529}, -\frac{16}{529}, \frac{28}{529}, -\frac{36}{529})$ $+\frac{2}{529}\sqrt{9911}e^5 \otimes e_9 + \frac{34}{529}\sqrt{55}e^3 \otimes e_8 + \frac{4}{529}\sqrt{4862}e^2 \otimes e_4$	{1289, 145678, 2356, 3479}
9431:1	$0, 0, 0, 0, 0, \frac{2}{1941}\sqrt{59719}e^{12}, \frac{2}{1941}\sqrt{101321}e^{16}, \frac{1}{1941}\sqrt{119438}e^{26}, \frac{1}{1941}\sqrt{618662}e^{17}$	$(\frac{18}{647}, -\frac{26}{647}, \frac{569}{1941}, -\frac{617}{1941}, \frac{755}{1941}, -\frac{8}{647}, \frac{10}{647}, -\frac{34}{647}, \frac{28}{647})$ $+\frac{2}{1941}\sqrt{127490}e^3 \otimes e_8 + \frac{2}{1941}\sqrt{189893}e^5 \otimes e_9 + \frac{2}{1941}\sqrt{270413}e^1 \otimes e_4$	{12578, 1689, 234679, 345}
9431:1	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{1131}e^{12}, \frac{1}{41}\sqrt{195}e^{16}, \frac{1}{41}\sqrt{1131}e^{26}, \frac{1}{41}\sqrt{195}e^{17}$	$(-\frac{5}{82}, \frac{12}{41}, \frac{27}{41}, \frac{7}{41}, \frac{7}{41}, \frac{19}{82}, \frac{7}{41}, \frac{43}{82}, \frac{9}{82})$ $+\frac{2}{41}\sqrt{663}e^2 \otimes e_3$	{12458, 1248, 128, 13456789, 1346789, 136789, 24569, 2469, 269, 3457, 347, 37}
9431:1	$0, 0, 0, 0, 0, \frac{4}{177}\sqrt{231}e^{12}, \frac{2}{59}\sqrt{55}e^{16}, \frac{16}{177}\sqrt{33}e^{26}, \frac{4}{177}\sqrt{231}e^{17}$	$(-\frac{22}{177}, \frac{20}{177}, \frac{28}{59}, \frac{19}{177}, \frac{19}{177}, -\frac{2}{177}, -\frac{8}{59}, \frac{6}{59}, -\frac{46}{177})$ $+\frac{2}{177}\sqrt{2145}e^3 \otimes e_8 + \frac{2}{59}\sqrt{341}e^2 \otimes e_9$	{23456, 2346, 236, 34579, 3479, 379}
9431:1	$0, 0, 0, 0, 0, \frac{2}{397}\sqrt{3841}e^{12}, \frac{6}{397}\sqrt{835}e^{16}, \frac{1}{397}\sqrt{5010}e^{26}, \frac{3}{397}\sqrt{4342}e^{17}$	$(\frac{2}{397}, \frac{14}{397}, \frac{187}{397}, -\frac{165}{397}, \frac{45}{397}, \frac{16}{397}, \frac{18}{397}, \frac{30}{397}, \frac{20}{397})$ $+\frac{2}{397}\sqrt{11857}e^3 \otimes e_9 + \frac{2}{397}\sqrt{17535}e^1 \otimes e_4$	{12357, 1237, 1569, 169, 2456789, 246789, 3458, 348}
9431:1	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{51}e^{12}, \frac{3}{17}\sqrt{3}e^{16}, \frac{9}{17}\sqrt{2}e^{26}, \frac{3}{34}\sqrt{51}e^{17}$	$(-\frac{9}{34}, \frac{27}{68}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{9}{68}, -\frac{9}{68}, \frac{9}{17}, -\frac{27}{68})$ $+\frac{3}{17}\sqrt{42}e^2 \otimes e_9$	{23456, 2346, 236, 26, 34579, 3479, 379, 79}
9431:1	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{51}e^{12}, \frac{36}{95}\sqrt{2}e^{16}, \frac{12}{95}\sqrt{3}e^{26}, \frac{6}{95}\sqrt{51}e^{17}$	$(\frac{2}{19}, -\frac{1}{95}, \frac{39}{95}, \frac{44}{95}, -\frac{3}{19}, \frac{9}{95}, \frac{1}{5}, \frac{8}{95}, \frac{29}{95})$ $+\frac{12}{95}\sqrt{42}e^1 \otimes e_4 + \frac{54}{95}e^3 \otimes e_5$	{1237, 1257, 1369, 1569, 2346789, 2456789, 348, 458}
9431:1	$0, 0, 0, 0, 0, \frac{2}{121}\sqrt{1131}e^{12}, \frac{2}{121}\sqrt{195}e^{16}, \frac{2}{121}\sqrt{1131}e^{26}, \frac{2}{121}\sqrt{195}e^{17}$	$(-\frac{5}{121}, \frac{24}{121}, \frac{53}{121}, -\frac{54}{121}, -\frac{25}{121}, \frac{19}{121}, \frac{14}{121}, \frac{43}{121}, \frac{9}{121})$ $+\frac{4}{121}\sqrt{663}e^2 \otimes e_4 + \frac{78}{121}e^3 \otimes e_5$	{1238, 1258, 1346789, 1456789, 2369, 2569, 347, 457}
9431:1	$0, 0, 0, 0, 0, \frac{3}{979}\sqrt{7562}e^{12}, \frac{3}{979}\sqrt{2774}e^{16}, \frac{3}{979}\sqrt{7410}e^{26}, \frac{3}{979}\sqrt{7562}e^{17}$	$(-\frac{57}{979}, \frac{81}{979}, -\frac{228}{979}, \frac{93}{979}, \frac{276}{979}, \frac{24}{979}, -\frac{3}{89}, \frac{105}{979}, -\frac{90}{979})$ $+\frac{3}{979}\sqrt{12198}e^1 \otimes e_3 + \frac{3}{979}\sqrt{6954}e^5 \otimes e_8 + \frac{6}{979}\sqrt{3629}e^2 \otimes e_9$	{12478, 1278, 14689, 1689}
9431:2	$0, 0, 0, 0, 0, \frac{2}{61}\sqrt{187}e^{12}, \frac{8}{61}\sqrt{17}e^{16}, \frac{4}{61}\sqrt{17}e^{26} + \frac{4}{61}\sqrt{17}e^{34}, \frac{2}{61}\sqrt{187}e^{17}$	$(\frac{6}{61}, \frac{1}{61}, \frac{21}{61}, -\frac{13}{61}, -\frac{28}{61}, \frac{7}{61}, \frac{13}{61}, \frac{8}{61}, \frac{19}{61})$ $+\frac{12}{61}\sqrt{17}e^1 \otimes e_5 + \frac{34}{61}e^3 \otimes e_4$	{2356789, 2456789, 358, 458}
9431:2	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{370}e^{12}, \frac{2}{237}\sqrt{2035}e^{16}, \frac{2}{237}\sqrt{962}e^{26} + \frac{1}{237}\sqrt{7474}e^{34}, \frac{1}{237}\sqrt{10582}e^{17}$	$(-\frac{10}{237}, \frac{31}{237}, \frac{25}{79}, -\frac{23}{237}, -\frac{28}{79}, \frac{7}{79}, \frac{11}{237}, \frac{52}{237}, \frac{1}{237})$ $+\frac{14}{237}\sqrt{74}e^3 \otimes e_9 + \frac{1}{237}\sqrt{16502}e^1 \otimes e_5$	{12347, 169, 2456789, 358}
9431:2	$0, 0, 0, 0, 0, \frac{4}{265}\sqrt{190}e^{12}, \frac{4}{265}\sqrt{95}e^{16}, \frac{4}{265}\sqrt{1045}e^{26} + \frac{2}{265}\sqrt{3990}e^{34}, \frac{4}{265}\sqrt{190}e^{17}$	$(\frac{4}{53}, -\frac{4}{53}, \frac{17}{53}, -\frac{21}{53}, \frac{34}{53}, 0, \frac{4}{53}, -\frac{4}{53}, \frac{8}{53})$ $+\frac{2}{265}\sqrt{13110}e^5 \otimes e_8 + \frac{38}{53}e^3 \otimes e_4$	{12389, 12489, 13678, 14678}
9431:2	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{7881}e^{12}, \frac{1}{71}\sqrt{555}e^{16}, \frac{9}{71}\sqrt{37}e^{26} + \frac{1}{71}\sqrt{555}e^{34}, \frac{1}{142}\sqrt{7881}e^{17}$	$(-\frac{37}{142}, \frac{105}{284}, \frac{17}{71}, \frac{17}{71}, \frac{12}{71}, \frac{31}{284}, -\frac{43}{284}, \frac{34}{71}, -\frac{117}{284})$ $+\frac{1}{71}\sqrt{6549}e^2 \otimes e_9$	{2356, 236, 3579, 379}
9431:2	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{110}e^{12}, \frac{2}{125}\sqrt{55}e^{16}, \frac{4}{125}\sqrt{55}e^{26} + \frac{1}{125}\sqrt{4290}e^{34}, \frac{2}{125}\sqrt{715}e^{17}$	$(-\frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{1}{5}, \frac{13}{25}, 0, -\frac{2}{25}, \frac{2}{25}, -\frac{4}{25})$ $+\frac{1}{125}\sqrt{5610}e^5 \otimes e_8 + \frac{2}{25}\sqrt{66}e^3 \otimes e_9$	{12569, 13457, 238, 46789}
9431:2	$0, 0, 0, 0, 0, \frac{6}{547}\sqrt{5529}e^{12}, \frac{12}{547}\sqrt{285}e^{16}, \frac{57}{547}\sqrt{66}e^{26} + \frac{12}{547}\sqrt{285}e^{34}, \frac{3}{547}\sqrt{3990}e^{17}$	$(-\frac{30}{547}, \frac{144}{547}, \frac{129}{547}, \frac{129}{547}, -\frac{369}{547}, \frac{114}{547}, \frac{84}{547}, \frac{258}{547}, \frac{54}{547})$ $+\frac{6}{547}\sqrt{13053}e^2 \otimes e_5$	{12348, 128, 13456789, 156789, 2369, 357}
9431:2	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{47}e^{12}, \frac{2}{37}\sqrt{47}e^{16}, \frac{1}{37}\sqrt{94}e^{26} + \frac{2}{37}\sqrt{47}e^{34}, \frac{1}{37}\sqrt{1222}e^{17}$	$(-\frac{6}{37}, \frac{8}{37}, \frac{5}{37}, \frac{5}{37}, 1, \frac{2}{37}, -\frac{4}{37}, \frac{10}{37}, -\frac{10}{37})$ $+\frac{2}{37}\sqrt{705}e^5 \otimes e_9$	{123469, 1269, 13457, 157, 2358, 36789}
9431:2	$0, 0, 0, 0, 0, \frac{3}{955}\sqrt{19234}e^{12}, \frac{6}{955}\sqrt{767}e^{16}, \frac{3}{955}\sqrt{23718}e^{26} + \frac{3}{191}\sqrt{354}e^{34}, \frac{3}{955}\sqrt{19234}e^{17}$	$(-\frac{177}{955}, \frac{288}{955}, \frac{351}{955}, \frac{48}{955}, -\frac{36}{191}, \frac{111}{955}, -\frac{66}{955}, \frac{399}{955}, -\frac{243}{955})$ $+\frac{3}{955}\sqrt{35754}e^3 \otimes e_5 + \frac{69}{955}\sqrt{118}e^2 \otimes e_9$	{2346, 256, 3479, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:2	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{187}e^{12}, \frac{2}{11}\sqrt{17}e^{16}, \frac{1}{11}\sqrt{17}e^{26} + \frac{1}{11}\sqrt{17}e^{34},$ $\frac{1}{22}\sqrt{187}e^{17}$	$(\frac{3}{22}, \frac{1}{44}, \frac{1}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{7}{44}, \frac{13}{44}, \frac{2}{11}, \frac{19}{44})$ $+ \frac{3}{11}\sqrt{17}e^1 \otimes e_5$	{12347, 127, 13469, 169, 2356789, 358}
9431:2	$0, 0, 0, 0, 0, \frac{4}{419}\sqrt{1315}e^{12}, \frac{2}{419}\sqrt{10257}e^{16},$ $\frac{2}{419}\sqrt{9731}e^{26} + \frac{4}{419}\sqrt{9994}e^{34}, \frac{4}{419}\sqrt{1315}e^{17}$	$(\frac{1}{419}, \frac{97}{419}, \frac{267}{419}, -\frac{72}{419}, -\frac{259}{419}, \frac{98}{419}, \frac{99}{419}, \frac{195}{419}, \frac{100}{419})$ $+ \frac{2}{419}\sqrt{89157}e^3 \otimes e_5$	{12347, 1257, 13469, 1569, 236789, 2456789, 38, 458}
9431:2	$0, 0, 0, 0, 0, \frac{4}{121}\sqrt{47}e^{12}, \frac{4}{121}\sqrt{47}e^{16}, \frac{2}{121}\sqrt{94}e^{26} + \frac{4}{121}\sqrt{47}e^{34},$ $\frac{2}{121}\sqrt{1222}e^{17}$	$(-\frac{12}{121}, \frac{16}{121}, \frac{57}{121}, -\frac{37}{121}, \frac{74}{121}, \frac{4}{121}, -\frac{8}{121}, \frac{20}{121}, -\frac{20}{121})$ $+ \frac{4}{121}\sqrt{705}e^5 \otimes e_9 + \frac{94}{121}e^3 \otimes e_4$	{2358, 2458, 36789, 46789}
9431:2	$0, 0, 0, 0, 0, \frac{3}{73}\sqrt{73}e^{12}, \frac{6}{73}\sqrt{10}e^{16}, \frac{3}{73}\sqrt{42}e^{26} + \frac{3}{73}\sqrt{3}e^{34},$ $\frac{3}{73}\sqrt{73}e^{17}$	$(-\frac{6}{73}, \frac{12}{73}, \frac{9}{73}, \frac{9}{73}, -\frac{24}{73}, \frac{73}{73}, 0, \frac{18}{73}, -\frac{6}{73})$ $+ \frac{3}{73}\sqrt{129}e^1 \otimes e_5 + \frac{3}{73}\sqrt{130}e^2 \otimes e_9$	{123478, 1278, 134689, 1689}
9431:2	$0, 0, 0, 0, 0, \frac{18}{1511}\sqrt{1177}e^{12}, \frac{36}{1511}\sqrt{11}e^{16},$ $\frac{9}{1511}\sqrt{4774}e^{26} + \frac{9}{1511}\sqrt{4642}e^{34}, \frac{18}{1511}\sqrt{1166}e^{17}$	$(-\frac{225}{1511}, \frac{423}{1511}, \frac{639}{1511}, -\frac{18}{1511}, -\frac{468}{1511}, \frac{198}{1511}, -\frac{27}{1511}, \frac{621}{1511}, -\frac{252}{1511})$ $+ \frac{27}{1511}\sqrt{1606}e^3 \otimes e_9 + \frac{9}{1511}\sqrt{14542}e^2 \otimes e_5$	{12489, 135678, 2346, 579}
9431:2	$0, 0, 0, 0, 0, \frac{12}{1607}\sqrt{5529}e^{12}, \frac{24}{1607}\sqrt{285}e^{16},$ $\frac{114}{1607}\sqrt{66}e^{26} + \frac{24}{1607}\sqrt{285}e^{34}, \frac{6}{1607}\sqrt{3990}e^{17}$	$(-\frac{60}{1607}, \frac{288}{1607}, \frac{771}{1607}, -\frac{255}{1607}, -\frac{738}{1607}, \frac{228}{1607}, \frac{168}{1607}, \frac{516}{1607}, \frac{108}{1607})$ $+ \frac{1026}{1607}e^3 \otimes e_4 + \frac{12}{1607}\sqrt{13053}e^2 \otimes e_5$	{2369, 2469, 357, 457}
9431:2	$0, 0, 0, 0, 0, \frac{2}{5561}\sqrt{239990}e^{12}, \frac{2}{5561}\sqrt{467165}e^{16},$ $\frac{2}{5561}\sqrt{735115}e^{26} + \frac{8}{5561}\sqrt{150285}e^{34}, \frac{10}{5561}\sqrt{55454}e^{17}$	$(-\frac{813}{5561}, \frac{1409}{5561}, \frac{705}{5561}, \frac{1300}{5561}, -\frac{1625}{5561}, \frac{596}{5561}, -\frac{217}{5561}, \frac{2005}{5561}, -\frac{1030}{5561})$ $+ \frac{26}{5561}\sqrt{15145}e^3 \otimes e_5 + \frac{4}{5561}\sqrt{813170}e^4 \otimes e_9$	{123689, 14578, 234, 5679}
9431:2	$0, 0, 0, 0, 0, \frac{10}{1697}\sqrt{3158}e^{12}, \frac{4}{1697}\sqrt{30001}e^{16},$ $\frac{1}{1697}\sqrt{495806}e^{26} + \frac{9}{1697}\sqrt{487911}e^{34}, \frac{1}{1697}\sqrt{1891642}e^{17}$	$(-\frac{352}{1697}, \frac{556}{1697}, \frac{1079}{1697}, -\frac{319}{1697}, \frac{299}{1697}, \frac{204}{1697}, -\frac{148}{1697}, \frac{760}{1697}, -\frac{500}{1697})$ $+ \frac{1}{1697}\sqrt{1103721}e^3 \otimes e_9$	{1245689, 124689, 13578, 1378, 234, 2345, 5679, 679}
9431:2	$0, 0, 0, 0, 0, \frac{2}{137}\sqrt{763}e^{12}, \frac{4}{137}\sqrt{218}e^{16}, \frac{4}{137}\sqrt{109}e^{26} + \frac{4}{137}\sqrt{218}e^{34},$ $\frac{2}{137}\sqrt{763}e^{17}$	$(\frac{6}{137}, \frac{17}{137}, \frac{129}{137}, -\frac{89}{137}, \frac{28}{137}, \frac{23}{137}, \frac{29}{137}, \frac{40}{137}, \frac{35}{137})$ $+ \frac{218}{137}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689}
9431:2	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{190}e^{12}, \frac{2}{85}\sqrt{95}e^{16}, \frac{2}{85}\sqrt{1045}e^{26} + \frac{1}{85}\sqrt{3990}e^{34},$ $\frac{2}{85}\sqrt{190}e^{17}$	$(\frac{2}{17}, -\frac{2}{17}, -\frac{1}{17}, -\frac{1}{17}, 1, 0, \frac{2}{17}, -\frac{2}{17}, \frac{4}{17})$ $+ \frac{1}{85}\sqrt{13110}e^5 \otimes e_8$	{12389, 13678, 23456, 256, 34579, 579}
9431:2	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{190}e^{12}, \frac{6}{245}\sqrt{95}e^{16}, \frac{12}{245}\sqrt{105}e^{26} + \frac{12}{245}\sqrt{15}e^{34},$ $\frac{6}{245}\sqrt{190}e^{17}$	$(-\frac{6}{49}, \frac{6}{49}, \frac{3}{49}, \frac{3}{49}, \frac{24}{49}, 0, -\frac{6}{49}, \frac{6}{49}, -\frac{12}{49})$ $+ \frac{30}{49}e^2 \otimes e_9 + \frac{6}{245}\sqrt{465}e^5 \otimes e_8$	{23456, 256, 34579, 579}
9431:2	$0, 0, 0, 0, 0, \frac{2}{395}\sqrt{7881}e^{12}, \frac{4}{395}\sqrt{555}e^{16}, \frac{36}{395}\sqrt{37}e^{26} + \frac{4}{395}\sqrt{555}e^{34},$ $\frac{2}{395}\sqrt{7881}e^{17}$	$(-\frac{74}{395}, \frac{21}{79}, \frac{179}{395}, -\frac{43}{395}, \frac{48}{395}, \frac{31}{395}, -\frac{43}{395}, \frac{136}{395}, -\frac{117}{395})$ $- \frac{222}{395}e^3 \otimes e_4 + \frac{4}{395}\sqrt{6549}e^2 \otimes e_9$	{2356, 236, 2456, 246, 3579, 379, 4579, 479}
9431:2	$0, 0, 0, 0, 0, \frac{2}{395}\sqrt{7881}e^{12}, \frac{4}{395}\sqrt{555}e^{16}, \frac{36}{395}\sqrt{37}e^{26} + \frac{4}{395}\sqrt{555}e^{34},$ $\frac{2}{395}\sqrt{7881}e^{17}$	$(-\frac{74}{395}, \frac{21}{79}, \frac{179}{395}, -\frac{43}{395}, \frac{48}{395}, \frac{31}{395}, -\frac{43}{395}, \frac{136}{395}, -\frac{117}{395})$ $+ \frac{222}{395}e^3 \otimes e_4 + \frac{4}{395}\sqrt{6549}e^2 \otimes e_9$	{2356, 236, 2456, 246, 3579, 379, 4579, 479}
9431:3	$0, 0, 0, 0, 0, \frac{40}{3551}\sqrt{14}e^{12}, \frac{160}{3551}\sqrt{13}e^{16},$ $\frac{40}{3551}\sqrt{911}e^{13} + \frac{40}{3551}\sqrt{7}e^{26}, \frac{40}{3551}\sqrt{589}e^{17}$	$(-\frac{180}{3551}, \frac{260}{3551}, \frac{520}{3551}, -\frac{980}{3551}, \frac{1140}{3551}, \frac{80}{3551}, -\frac{100}{3551}, \frac{340}{3551}, -\frac{280}{3551})$ $+ \frac{200}{3551}\sqrt{46}e^3 \otimes e_9 + \frac{40}{3551}\sqrt{1261}e^1 \otimes e_4 + \frac{40}{3551}\sqrt{859}e^5 \otimes e_8$	{1689, 245679}
9431:3	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{95}e^{12}, \frac{2}{81}\sqrt{57}e^{16}, \frac{1}{27}\sqrt{209}e^{13} + \frac{2}{81}\sqrt{57}e^{26},$ $\frac{1}{81}\sqrt{1653}e^{17}$	$(-\frac{13}{81}, \frac{2}{9}, \frac{4}{9}, \frac{37}{81}, -\frac{20}{81}, \frac{5}{81}, -\frac{8}{81}, \frac{23}{81}, -\frac{7}{27})$ $+ \frac{19}{27}e^4 \otimes e_5 + \frac{2}{81}\sqrt{1254}e^3 \otimes e_9$	{1489, 1589, 2479, 2579}
9431:3	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{16}, \frac{8}{19}\sqrt{6}e^{13} + \frac{2}{19}\sqrt{15}e^{26},$ $\frac{2}{19}\sqrt{15}e^{17}$	$(-\frac{5}{76}, \frac{11}{38}, \frac{11}{19}, -\frac{13}{19}, \frac{3}{19}, \frac{17}{76}, \frac{3}{19}, \frac{39}{76}, \frac{7}{76})$ $+ \frac{16}{19}\sqrt{3}e^3 \otimes e_4$	{12456789, 1246789, 1458, 148, 2457, 247, 4569, 469}
9431:3	$0, 0, 0, 0, 0, \frac{3}{215}\sqrt{1199}e^{12}, \frac{36}{215}\sqrt{11}e^{16}, \frac{3}{215}\sqrt{1155}e^{13} + \frac{6}{215}\sqrt{11}e^{26},$ $\frac{3}{215}\sqrt{1199}e^{17}$	$(\frac{37}{215}, -\frac{31}{215}, -\frac{62}{215}, \frac{15}{43}, -\frac{24}{215}, \frac{6}{215}, \frac{1}{5}, -\frac{5}{43}, \frac{16}{43})$ $+ \frac{6}{215}\sqrt{770}e^1 \otimes e_3 + \frac{99}{215}e^4 \otimes e_5$	{234679, 235679, 34, 35}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:3	$0, 0, 0, 0, 0, \frac{4}{3181} \sqrt{108265}e^{12}, \frac{4}{3181} \sqrt{69730}e^{16}, \frac{2}{3181} \sqrt{336539}e^{13} + \frac{2}{3181} \sqrt{210658}e^{26}, \frac{6}{3181} \sqrt{22754}e^{17}$	$(\frac{356}{3181}, -\frac{189}{3181}, -\frac{378}{3181}, -\frac{923}{3181}, \frac{321}{3181}, \frac{167}{3181}, \frac{523}{3181}, -\frac{22}{3181}, \frac{879}{3181}) + \frac{4}{3181} \sqrt{114137}e^2 \otimes e_4 + \frac{8}{3181} \sqrt{37067}e^1 \otimes e_3$	{235679, 23679, 34, 345}
9431:3	$0, 0, 0, 0, 0, \frac{3}{427} \sqrt{4994}e^{12}, \frac{11}{427} \sqrt{454}e^{16}, \frac{2}{427} \sqrt{7491}e^{13} + \frac{1}{427} \sqrt{14982}e^{26}, \frac{3}{427} \sqrt{4994}e^{17}$	$(\frac{11}{61}, -\frac{75}{427}, -\frac{150}{427}, \frac{22}{61}, \frac{57}{427}, \frac{2}{427}, \frac{79}{427}, -\frac{73}{427}, \frac{156}{427}) + \frac{1}{427} \sqrt{123942}e^1 \otimes e_3 + \frac{1}{427} \sqrt{44038}e^4 \otimes e_8$	{2345679, 234679, 34, 345}
9431:3	$0, 0, 0, 0, 0, \frac{58}{3853} \sqrt{627}e^{12}, \frac{29}{3853} \sqrt{1390}e^{16}, \frac{58}{3853} \sqrt{418}e^{13} + \frac{29}{3853} \sqrt{1554}e^{26}, \frac{116}{3853} \sqrt{67}e^{17}$	$(\frac{377}{3853}, -\frac{232}{3853}, \frac{464}{3853}, -\frac{1073}{3853}, \frac{754}{3853}, \frac{145}{3853}, \frac{522}{3853}, -\frac{87}{3853}, \frac{899}{3853}) + \frac{29}{3853} \sqrt{3326}e^1 \otimes e_3 + \frac{29}{3853} \sqrt{782}e^5 \otimes e_8 + \frac{58}{3853} \sqrt{718}e^2 \otimes e_4$	{235679, 345}
9431:3	$0, 0, 0, 0, 0, \frac{8}{839} \sqrt{934}e^{12}, \frac{152}{839} \sqrt{2}e^{16}, \frac{16}{839} \sqrt{218}e^{13} + \frac{8}{839} \sqrt{462}e^{26}, \frac{16}{839} \sqrt{195}e^{17}$	$(\frac{48}{839}, -\frac{40}{839}, -\frac{80}{839}, -\frac{168}{839}, \frac{232}{839}, \frac{8}{839}, \frac{56}{839}, -\frac{32}{839}, \frac{104}{839}) + \frac{24}{839} \sqrt{106}e^2 \otimes e_4 + \frac{8}{839} \sqrt{1474}e^1 \otimes e_3 + \frac{8}{839} \sqrt{646}e^5 \otimes e_9$	{23679, 345}
9431:3	$0, 0, 0, 0, 0, \frac{2}{3265} \sqrt{196742}e^{12}, \frac{2}{3265} \sqrt{232415}e^{16}, \frac{2}{3265} \sqrt{463749}e^{13} + \frac{2}{3265} \sqrt{623737}e^{26}, \frac{2}{3265} \sqrt{516718}e^{17}$	$(-\frac{149}{3265}, -\frac{34}{3265}, -\frac{68}{3265}, \frac{389}{653}, \frac{1681}{3265}, -\frac{183}{3265}, -\frac{332}{3265}, -\frac{217}{3265}, -\frac{481}{3265}) + \frac{24}{3265} \sqrt{11891}e^4 \otimes e_8 + \frac{4}{3265} \sqrt{356730}e^5 \otimes e_9$	{1234567, 1349, 23789, 3568}
9431:3	$0, 0, 0, 0, 0, \frac{35}{4177} \sqrt{1462}e^{12}, \frac{35}{4177} \sqrt{2294}e^{16}, \frac{70}{4177} \sqrt{461}e^{13} + \frac{105}{4177} \sqrt{30}e^{26}, \frac{35}{4177} \sqrt{2766}e^{17}$	$(\frac{315}{4177}, -\frac{455}{4177}, \frac{910}{4177}, \frac{630}{4177}, \frac{1715}{4177}, -\frac{140}{4177}, \frac{175}{4177}, -\frac{595}{4177}, \frac{490}{4177}) + \frac{140}{4177} \sqrt{163}e^5 \otimes e_9 + \frac{35}{4177} \sqrt{438}e^4 \otimes e_8 + \frac{35}{4177} \sqrt{4486}e^1 \otimes e_3$	{234679, 345}
9431:3	$0, 0, 0, 0, 0, \frac{2}{323} \sqrt{2030}e^{12}, \frac{2}{323} \sqrt{4669}e^{16}, \frac{2}{323} \sqrt{6699}e^{13} + \frac{2}{323} \sqrt{4669}e^{26}, \frac{2}{323} \sqrt{24766}e^{17}$	$(-\frac{43}{323}, \frac{46}{323}, \frac{92}{323}, \frac{1}{323}, \frac{59}{323}, \frac{3}{323}, -\frac{40}{323}, \frac{49}{323}, -\frac{83}{323}) + \frac{4}{323} \sqrt{13398}e^4 \otimes e_9$	{12569, 1269, 1457, 147, 2458, 248, 56789, 6789}
9431:3	$0, 0, 0, 0, 0, \frac{1}{240} \sqrt{7917}e^{12}, \frac{1}{80} \sqrt{290}e^{16}, \frac{1}{80} \sqrt{406}e^{13} + \frac{1}{120} \sqrt{4002}e^{26}, \frac{1}{240} \sqrt{7917}e^{17}$	$(-\frac{29}{240}, \frac{47}{480}, \frac{47}{240}, \frac{7}{16}, \frac{13}{120}, -\frac{11}{480}, -\frac{23}{160}, \frac{3}{40}, -\frac{127}{480}) + \frac{1}{240} \sqrt{13746}e^4 \otimes e_8 + \frac{3}{80} \sqrt{290}e^2 \otimes e_9$	{23456, 2346, 34579, 3479}
9431:3	$0, 0, 0, 0, 0, \frac{6}{331} \sqrt{1199}e^{12}, \frac{72}{331} \sqrt{11}e^{16}, \frac{6}{331} \sqrt{1155}e^{13} + \frac{12}{331} \sqrt{11}e^{26}, \frac{6}{331} \sqrt{1199}e^{17}$	$(\frac{74}{331}, -\frac{62}{331}, \frac{124}{331}, \frac{51}{331}, \frac{51}{331}, \frac{12}{331}, \frac{86}{331}, -\frac{50}{331}, \frac{160}{331}) + \frac{12}{331} \sqrt{770}e^1 \otimes e_3$	{2345679, 234679, 23679, 3, 34, 345}
9431:3	$0, 0, 0, 0, 0, \frac{4}{339} \sqrt{2489}e^{12}, \frac{2}{339} \sqrt{14541}e^{16}, \frac{2}{339} \sqrt{4585}e^{13} + \frac{2}{339} \sqrt{3799}e^{26}, \frac{4}{339} \sqrt{2489}e^{17}$	$(\frac{41}{339}, \frac{4}{113}, \frac{8}{113}, -\frac{221}{339}, \frac{59}{339}, \frac{53}{339}, \frac{94}{339}, \frac{65}{339}, \frac{45}{113}) + \frac{4}{339} \sqrt{9170}e^1 \otimes e_4$	{12357, 1237, 13569, 1369, 23456789, 2346789, 3458, 348}
9431:3	$0, 0, 0, 0, 0, \frac{3}{215} \sqrt{1199}e^{12}, \frac{6}{215} \sqrt{11}e^{16}, \frac{3}{215} \sqrt{1155}e^{13} + \frac{36}{215} \sqrt{11}e^{26}, \frac{3}{215} \sqrt{1199}e^{17}$	$(-\frac{33}{215}, \frac{39}{215}, \frac{78}{215}, \frac{15}{43}, -\frac{24}{215}, \frac{6}{215}, -\frac{27}{215}, \frac{9}{43}, -\frac{12}{43}) + \frac{6}{215} \sqrt{770}e^2 \otimes e_9 + \frac{99}{215} e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:3	$0, 0, 0, 0, 0, \frac{11}{824} \sqrt{590}e^{12}, \frac{33}{824} \sqrt{15}e^{16}, \frac{11}{824} \sqrt{1410}e^{13} + \frac{33}{824} \sqrt{15}e^{26}, \frac{11}{824} \sqrt{1230}e^{17}$	$(-\frac{209}{1648}, \frac{319}{1648}, \frac{319}{824}, \frac{451}{824}, -\frac{143}{412}, \frac{55}{824}, -\frac{99}{1648}, \frac{429}{1648}, -\frac{77}{412}) + \frac{11}{412} \sqrt{910}e^4 \otimes e_9 + \frac{11}{824} \sqrt{3730}e^3 \otimes e_5$	{1245678, 1589, 2579, 456}
9431:3	$0, 0, 0, 0, 0, \frac{6}{331} \sqrt{1199}e^{12}, \frac{12}{331} \sqrt{11}e^{16}, \frac{6}{331} \sqrt{1155}e^{13} + \frac{72}{331} \sqrt{11}e^{26}, \frac{6}{331} \sqrt{1199}e^{17}$	$(-\frac{66}{331}, \frac{78}{331}, \frac{156}{331}, \frac{51}{331}, \frac{51}{331}, \frac{12}{331}, -\frac{54}{331}, \frac{90}{331}, -\frac{120}{331}) + \frac{12}{331} \sqrt{770}e^2 \otimes e_9$	{1234578, 123478, 12378, 1345689, 134689, 13689}
9431:3	$0, 0, 0, 0, 0, \frac{13}{840} \sqrt{389}e^{12}, \frac{1}{840} \sqrt{109698}e^{16}, \frac{1}{840} \sqrt{159490}e^{13} + \frac{1}{840} \sqrt{66130}e^{26}, \frac{13}{840} \sqrt{389}e^{17}$	$(\frac{1}{30}, \frac{61}{560}, \frac{61}{280}, -\frac{361}{840}, -\frac{103}{420}, \frac{239}{1680}, \frac{59}{336}, \frac{211}{840}, \frac{117}{560}) + \frac{1}{280} \sqrt{25674}e^3 \otimes e_5 + \frac{1}{420} \sqrt{87914}e^1 \otimes e_4$	{1237, 1369, 2346789, 348}
9431:3	$0, 0, 0, 0, 0, \frac{2}{289} \sqrt{2345}e^{12}, \frac{2}{289} \sqrt{2345}e^{16}, \frac{6}{289} \sqrt{737}e^{13} + \frac{2}{289} \sqrt{2077}e^{26}, \frac{2}{289} \sqrt{2077}e^{17}$	$(-\frac{35}{289}, \frac{29}{289}, \frac{58}{289}, \frac{157}{289}, \frac{25}{289}, -\frac{6}{289}, -\frac{41}{289}, \frac{23}{289}, -\frac{76}{289}) + \frac{4}{289} \sqrt{2211}e^3 \otimes e_9 + \frac{4}{289} \sqrt{2211}e^4 \otimes e_8$	{1234567, 123467, 3568, 368}
9431:3	$0, 0, 0, 0, 0, \frac{2}{325} \sqrt{6447}e^{12}, \frac{2}{325} \sqrt{3297}e^{16}, \frac{2}{325} \sqrt{987}e^{13} + \frac{2}{325} \sqrt{2919}e^{26}, \frac{2}{325} \sqrt{2121}e^{17}$	$(\frac{3}{65}, \frac{27}{325}, \frac{54}{325}, -\frac{111}{325}, -\frac{99}{325}, \frac{42}{325}, \frac{57}{325}, \frac{69}{325}, \frac{72}{325}) + \frac{112}{325} \sqrt{3}e^1 \otimes e_4 + \frac{4}{325} \sqrt{2163}e^2 \otimes e_5$	{12378, 135689, 234679, 345}
9431:3	$0, 0, 0, 0, 0, \frac{2}{81} \sqrt{1155}e^{12}, \frac{2}{81} \sqrt{35}e^{16}, \frac{2}{81} \sqrt{595}e^{13} + \frac{2}{81} \sqrt{1155}e^{26}, \frac{2}{81} \sqrt{35}e^{17}$	$(-\frac{1}{81}, \frac{5}{27}, \frac{10}{27}, -\frac{55}{81}, \frac{13}{81}, \frac{14}{81}, \frac{13}{81}, \frac{29}{81}, \frac{4}{27}) + \frac{4}{81} \sqrt{595}e^2 \otimes e_4$	{12358, 1238, 13456789, 1346789, 23569, 2369, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:3	$0, 0, 0, 0, 0, \frac{126}{1361}\sqrt{5}e^{12}, \frac{105}{1361}\sqrt{11}e^{16},$ $\frac{42}{1361}\sqrt{103}e^{13} + \frac{42}{1361}\sqrt{157}e^{26}, \frac{126}{1361}\sqrt{3}e^{17}$	$(-\frac{105}{1361}, \frac{126}{1361}, \frac{252}{1361}, -\frac{315}{1361}, \frac{588}{1361}, \frac{21}{1361}, -\frac{84}{1361}, \frac{147}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{70}e^3 \otimes e_9 + \frac{273}{1361}\sqrt{5}e^2 \otimes e_4 + \frac{651}{1361}e^5 \otimes e_8$	{1289, 4579}
9431:3	$0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{270655}e^{12}, \frac{18}{2245}\sqrt{703}e^{16},$ $\frac{6}{2245}\sqrt{2109}e^{13} + \frac{2}{2245}\sqrt{343767}e^{26}, \frac{18}{2245}\sqrt{162393}e^{17}$	$(-\frac{289}{2245}, \frac{539}{2245}, \frac{1078}{2245}, -\frac{867}{2245}, \frac{273}{2245}, \frac{50}{2245}, -\frac{39}{2245}, \frac{789}{2245}, -\frac{328}{2245})$ $+ \frac{16}{2245}\sqrt{9139}e^3 \otimes e_9 + \frac{76}{2245}\sqrt{555}e^2 \otimes e_4$	{12589, 1289, 4579, 479}
9431:3	$0, 0, 0, 0, 0, \frac{3}{787}\sqrt{8474}e^{12}, \frac{6}{787}\sqrt{1121}e^{16}, \frac{3}{787}\sqrt{3990}e^{13} + \frac{9}{787}\sqrt{646}e^{26},$ $\frac{3}{787}\sqrt{8474}e^{17}$	$(-\frac{57}{787}, \frac{96}{787}, \frac{192}{787}, -\frac{228}{787}, \frac{87}{787}, \frac{39}{787}, -\frac{18}{787}, \frac{135}{787}, -\frac{75}{787})$ $+ \frac{3}{787}\sqrt{14630}e^2 \otimes e_9 + \frac{9}{787}\sqrt{1330}e^1 \otimes e_4$	{123578, 12378, 135689, 13689}
9431:3	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{7171}e^{12}, \frac{1}{157}\sqrt{1515}e^{16}, \frac{1}{157}\sqrt{1010}e^{13} + \frac{1}{157}\sqrt{7171}e^{26},$ $\frac{1}{157}\sqrt{1515}e^{17}$	$(-\frac{15}{314}, \frac{33}{157}, \frac{66}{157}, -\frac{68}{157}, -\frac{35}{157}, \frac{51}{314}, \frac{18}{157}, \frac{117}{314}, \frac{21}{314})$ $+ \frac{1}{157}\sqrt{10706}e^3 \otimes e_5 + \frac{2}{157}\sqrt{4343}e^2 \otimes e_4$	{1258, 1456789, 2569, 457}
9431:3	$0, 0, 0, 0, 0, \frac{2}{3373}\sqrt{496541}e^{12}, \frac{2}{3373}\sqrt{234821}e^{16},$ $\frac{6}{3373}\sqrt{7997}e^{13} + \frac{2}{3373}\sqrt{871673}e^{26}, \frac{2}{3373}\sqrt{109777}e^{17}$	$(\frac{21}{3373}, \frac{115}{3373}, \frac{230}{3373}, \frac{1705}{3373}, -\frac{1339}{3373}, \frac{136}{3373}, \frac{157}{3373}, \frac{251}{3373}, \frac{178}{3373})$ $+ \frac{4}{3373}\sqrt{303159}e^2 \otimes e_5 + \frac{8}{3373}\sqrt{62522}e^4 \otimes e_8$	{128, 156789, 2469, 457}
9431:3	$0, 0, 0, 0, 0, \frac{1}{336}\sqrt{8745}e^{12}, \frac{1}{28}\sqrt{106}e^{16}, \frac{3}{112}\sqrt{530}e^{13} + \frac{1}{168}\sqrt{2703}e^{26},$ $\frac{1}{336}\sqrt{8745}e^{17}$	$(-\frac{1}{48}, \frac{37}{672}, \frac{37}{336}, \frac{9}{16}, -\frac{61}{168}, \frac{23}{672}, \frac{3}{224}, \frac{5}{56}, -\frac{5}{672})$ $+ \frac{1}{168}\sqrt{13038}e^4 \otimes e_8 + \frac{1}{16}\sqrt{106}e^3 \otimes e_5$	{1234679, 134, 2378, 3689}
9431:3	$0, 0, 0, 0, 0, \frac{3}{29}\sqrt{6}e^{12}, \frac{3}{29}\sqrt{5}e^{16}, \frac{6}{29}e^{13} + \frac{12}{29}e^{26}, \frac{3}{29}\sqrt{6}e^{17}$	$(-\frac{3}{29}, \frac{3}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{12}{29}, 0, -\frac{3}{29}, \frac{3}{29}, -\frac{6}{29})$ $+ \frac{3}{29}\sqrt{11}e^3 \otimes e_4 + \frac{3}{29}\sqrt{19}e^5 \otimes e_8 + \frac{3}{29}\sqrt{23}e^2 \otimes e_9$	{2456, 4579}
9431:3	$0, 0, 0, 0, 0, \frac{8}{3141}\sqrt{4435}e^{12}, \frac{4}{3141}\sqrt{4435}e^{16},$ $\frac{2}{3141}\sqrt{494059}e^{13} + \frac{2}{3141}\sqrt{761046}e^{26}, \frac{2}{3141}\sqrt{384958}e^{17}$	$(-\frac{256}{3141}, \frac{51}{349}, \frac{102}{349}, \frac{1465}{3141}, -\frac{1315}{3141}, \frac{203}{3141}, -\frac{53}{3141}, \frac{662}{3141}, -\frac{103}{1047})$ $+ \frac{4}{3141}\sqrt{371653}e^2 \otimes e_5 + \frac{8}{3141}\sqrt{61203}e^4 \otimes e_9$	{123478, 135689, 23679, 345}
9431:3	$0, 0, 0, 0, 0, \frac{1}{160}\sqrt{6699}e^{12}, \frac{1}{80}\sqrt{87}e^{16}, \frac{3}{32}\sqrt{174}e^{13} + \frac{1}{80}\sqrt{2262}e^{26},$ $\frac{1}{160}\sqrt{6699}e^{17}$	$(-\frac{29}{160}, \frac{77}{320}, \frac{77}{160}, \frac{1}{16}, \frac{21}{160}, \frac{19}{320}, \frac{39}{320}, \frac{3}{10}, -\frac{97}{320})$ $+ \frac{1}{160}\sqrt{5394}e^3 \otimes e_4 + \frac{9}{80}\sqrt{58}e^2 \otimes e_9$	{2356, 236, 3579, 379}
9431:3	$0, 0, 0, 0, 0, \frac{6}{3817}\sqrt{37914}e^{12}, \frac{6}{3817}\sqrt{75561}e^{16},$ $\frac{6}{3817}\sqrt{7565}e^{13} + \frac{6}{3817}\sqrt{14863}e^{26}, \frac{6}{3817}\sqrt{98078}e^{17}$	$(\frac{3}{3817}, \frac{174}{3817}, \frac{348}{3817}, \frac{1785}{3817}, -\frac{1599}{3817}, \frac{177}{3817}, \frac{180}{3817}, \frac{351}{3817}, \frac{183}{3817})$ $+ \frac{156}{3817}\sqrt{178}e^4 \otimes e_9 + \frac{24}{3817}\sqrt{11303}e^1 \otimes e_5$	{12347, 1369, 2356789, 3458}
9431:3	$0, 0, 0, 0, 0, \frac{15}{1316}\sqrt{583}e^{12}, \frac{15}{1316}\sqrt{226}e^{16},$ $\frac{15}{1316}\sqrt{138}e^{13} + \frac{15}{658}\sqrt{141}e^{26}, \frac{15}{1316}\sqrt{583}e^{17}$	$(-\frac{75}{1316}, \frac{195}{2632}, \frac{195}{1316}, -\frac{75}{329}, \frac{345}{1316}, \frac{45}{2632}, -\frac{15}{376}, \frac{30}{329}, -\frac{255}{2632})$ $+ \frac{15}{1316}\sqrt{1090}e^2 \otimes e_9 + \frac{15}{1316}\sqrt{438}e^5 \otimes e_8 + \frac{15}{658}\sqrt{213}e^1 \otimes e_4$	{12378, 13689}
9431:3	$0, 0, 0, 0, 0, \frac{4}{105}\sqrt{57}e^{12}, \frac{2}{35}\sqrt{95}e^{16}, \frac{2}{35}\sqrt{209}e^{13} + \frac{2}{105}\sqrt{1653}e^{26},$ $\frac{4}{105}\sqrt{57}e^{17}$	$(\frac{1}{15}, -\frac{8}{105}, -\frac{16}{105}, 1, \frac{17}{105}, -\frac{105}{35}, \frac{2}{35}, -\frac{3}{35}, \frac{13}{105})$ $+ \frac{4}{105}\sqrt{1254}e^4 \otimes e_8$	{12345679, 1234679, 134, 1345, 23578, 2378, 35689, 3689}
9431:3	$0, 0, 0, 0, 0, \frac{10}{727}\sqrt{546}e^{12}, \frac{70}{727}\sqrt{13}e^{16}, \frac{70}{727}\sqrt{21}e^{13} + \frac{10}{727}\sqrt{273}e^{26},$ $\frac{10}{727}\sqrt{546}e^{17}$	$(\frac{65}{727}, -\frac{30}{727}, -\frac{60}{727}, \frac{355}{727}, -\frac{285}{727}, \frac{35}{727}, \frac{100}{727}, \frac{5}{727}, \frac{165}{727})$ $+ \frac{20}{727}\sqrt{469}e^4 \otimes e_8 + \frac{20}{727}\sqrt{651}e^1 \otimes e_5$	{1278, 1689, 245679, 45}
9431:3	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{95}e^{12}, \frac{4}{105}\sqrt{57}e^{16}, \frac{2}{35}\sqrt{209}e^{13} + \frac{4}{105}\sqrt{57}e^{26},$ $\frac{4}{105}\sqrt{1653}e^{17}$	$(-\frac{26}{105}, \frac{12}{35}, \frac{24}{35}, \frac{17}{105}, \frac{17}{21}, -\frac{16}{105}, \frac{46}{105}, -\frac{2}{5})$ $+ \frac{4}{105}\sqrt{1254}e^3 \otimes e_9$	{14589, 1489, 189, 24579, 2479, 279}
9431:3	$0, 0, 0, 0, 0, \frac{4}{3773}\sqrt{101179}e^{12}, \frac{4}{3773}\sqrt{160433}e^{16},$ $\frac{2}{3773}\sqrt{539435}e^{13} + \frac{2}{3773}\sqrt{36894}e^{26}, \frac{2}{3773}\sqrt{747942}e^{17}$	$(\frac{300}{3773}, -\frac{409}{3773}, -\frac{818}{3773}, \frac{1609}{3773}, \frac{381}{3773}, -\frac{109}{3773}, \frac{191}{3773}, -\frac{74}{539}, \frac{491}{3773})$ $+ \frac{4}{3773}\sqrt{171613}e^4 \otimes e_9 + \frac{4}{3773}\sqrt{302419}e^1 \otimes e_3$	{235679, 23679, 34, 345}
9431:3	$0, 0, 0, 0, 0, \frac{2}{3757}\sqrt{114211}e^{12}, \frac{6}{3757}\sqrt{42277}e^{16},$ $\frac{2}{3757}\sqrt{501645}e^{13} + \frac{2}{3757}\sqrt{213909}e^{26}, \frac{6}{3757}\sqrt{64993}e^{17}$	$(-\frac{241}{3757}, \frac{539}{3757}, \frac{1078}{3757}, -\frac{1503}{3757}, \frac{381}{3757}, \frac{298}{3757}, \frac{57}{3757}, \frac{837}{3757}, -\frac{184}{3757})$ $+ \frac{4}{3757}\sqrt{235363}e^3 \otimes e_9 + \frac{4}{3757}\sqrt{297201}e^1 \otimes e_4$	{12357, 1237, 3458, 348}
9431:4	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{55}e^{12}, \frac{2}{125}\sqrt{110}e^{16}, \frac{2}{125}\sqrt{715}e^{26},$ $\frac{4}{125}\sqrt{55}e^{17} + \frac{1}{125}\sqrt{4290}e^{34}$	$(\frac{8}{125}, -\frac{14}{125}, \frac{7}{25}, -\frac{1}{5}, \frac{13}{25}, -\frac{6}{125}, \frac{2}{125}, -\frac{4}{25}, \frac{2}{25})$ $+ \frac{1}{125}\sqrt{5610}e^5 \otimes e_9 + \frac{2}{25}\sqrt{66}e^3 \otimes e_8$	{12489, 15678, 23456, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:4	$0, 0, 0, 0, 0, \frac{2}{1697}\sqrt{487911e^{12}}, \frac{10}{1697}\sqrt{3158e^{16}}, \frac{1}{1697}\sqrt{1891642e^{26}},$ $\frac{1}{1697}\sqrt{495806e^{17}} + \frac{4}{1697}\sqrt{30001e^{34}}$	$(-\frac{62}{1697}, \frac{480}{1697}, \frac{147}{1697}, \frac{147}{1697}, -\frac{1099}{1697}, \frac{418}{1697}, \frac{356}{1697}, \frac{898}{1697}, \frac{294}{1697})$ $+ \frac{2}{1697}\sqrt{1103721e^2} \otimes e_5$	{12348, 128, 1356789, 2369, 3457, 57}
9431:4	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{1173e^{12}}, \frac{1}{119}\sqrt{966e^{16}}, \frac{6}{119}\sqrt{161e^{26}},$ $\frac{1}{119}\sqrt{2346e^{17}} + \frac{2}{119}\sqrt{1173e^{34}}$	$(-\frac{23}{119}, \frac{43}{119}, -\frac{13}{119}, -\frac{13}{119}, \frac{3}{119}, \frac{20}{119}, -\frac{3}{119}, \frac{9}{119}, -\frac{26}{119})$ $+ \frac{2}{17}\sqrt{69e^2} \otimes e_9$	{23456, 2346, 256, 26, 3579, 379}
9431:4	$0, 0, 0, 0, 0, \frac{2}{419}\sqrt{10257e^{12}}, \frac{4}{419}\sqrt{1315e^{16}}, \frac{4}{419}\sqrt{1315e^{26}},$ $\frac{2}{419}\sqrt{9731e^{17}} + \frac{4}{419}\sqrt{9994e^{34}}$	$(\frac{58}{419}, \frac{21}{419}, \frac{267}{419}, -\frac{72}{419}, -\frac{259}{419}, \frac{79}{419}, \frac{137}{419}, \frac{100}{419}, \frac{195}{419})$ $+ \frac{2}{419}\sqrt{89157e^3} \otimes e_5$	{123789, 1245789, 13468, 1568, 23467, 2567, 39, 459}
9431:4	$0, 0, 0, 0, 0, \frac{4}{4973}\sqrt{487911e^{12}}, \frac{20}{4973}\sqrt{3158e^{16}}, \frac{2}{4973}\sqrt{1891642e^{26}},$ $\frac{2}{4973}\sqrt{495806e^{17}} + \frac{8}{4973}\sqrt{30001e^{34}}$	$(-\frac{124}{4973}, \frac{960}{4973}, \frac{1873}{4973}, -\frac{1285}{4973}, -\frac{2198}{4973}, \frac{836}{4973}, \frac{712}{4973}, \frac{1796}{4973}, \frac{588}{4973})$ $+ \frac{3158}{4973}e^3 \otimes e_4 + \frac{4}{4973}\sqrt{1103721e^2} \otimes e_5$	{1356789, 1456789, 2369, 2469}
9431:4	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{95e^{12}}, \frac{2}{85}\sqrt{190e^{16}}, \frac{2}{85}\sqrt{190e^{26}},$ $\frac{2}{85}\sqrt{1045e^{17}} + \frac{1}{85}\sqrt{3990e^{34}}$	$(-\frac{8}{85}, \frac{14}{85}, -\frac{1}{17}, -\frac{1}{17}, 1, \frac{6}{85}, -\frac{2}{85}, \frac{4}{17}, -\frac{2}{17})$ $+ \frac{1}{85}\sqrt{13110e^5} \otimes e_9$	{12369, 13457, 157, 23458, 258, 36789}
9431:4	$0, 0, 0, 0, 0, \frac{4}{121}\sqrt{47e^{12}}, \frac{4}{121}\sqrt{47e^{16}}, \frac{2}{121}\sqrt{1222e^{26}},$ $\frac{2}{121}\sqrt{94e^{17}} + \frac{4}{121}\sqrt{47e^{34}}$	$(\frac{12}{121}, -\frac{16}{121}, \frac{57}{121}, -\frac{37}{121}, \frac{74}{121}, -\frac{4}{121}, \frac{8}{121}, -\frac{20}{121}, \frac{20}{121})$ $+ \frac{4}{121}\sqrt{705e^5} \otimes e_8 + \frac{94}{121}e^3 \otimes e_4$	{12389, 12489, 3579, 4579}
9431:4	$0, 0, 0, 0, 0, \frac{6}{989}\sqrt{3553e^{12}}, \frac{12}{989}\sqrt{170e^{16}}, \frac{24}{989}\sqrt{255e^{26}},$ $\frac{6}{989}\sqrt{901e^{17}} + \frac{12}{989}\sqrt{1326e^{34}}$	$(-\frac{102}{989}, \frac{231}{989}, \frac{117}{989}, -\frac{192}{989}, -\frac{189}{989}, \frac{3}{989}, \frac{27}{989}, \frac{360}{989}, -\frac{75}{989})$ $+ \frac{24}{989}\sqrt{595e^2} \otimes e_9 + \frac{6}{989}\sqrt{5253e^3} \otimes e_5$	{2346, 256, 379, 4579}
9431:4	$0, 0, 0, 0, 0, \frac{4}{141}\sqrt{219e^{12}}, \frac{1}{141}\sqrt{3358e^{16}}, \frac{1}{141}\sqrt{2482e^{26}},$ $\frac{2}{141}\sqrt{511e^{17}} + \frac{2}{141}\sqrt{730e^{34}}$	$(\frac{25}{141}, -\frac{22}{141}, \frac{18}{47}, -\frac{1}{141}, -\frac{16}{47}, \frac{1}{47}, \frac{28}{141}, -\frac{19}{141}, \frac{53}{141})$ $+ \frac{1}{141}\sqrt{8030e^3} \otimes e_8 + \frac{1}{141}\sqrt{9782e^1} \otimes e_5$	{1278, 14689, 235679, 345}
9431:4	$0, 0, 0, 0, 0, \frac{72}{577}\sqrt{7e^{12}}, \frac{18}{577}\sqrt{47e^{16}}, \frac{72}{577}\sqrt{13e^{26}},$ $\frac{36}{577}\sqrt{14e^{17}} + \frac{72}{577}\sqrt{7e^{34}}$	$(-\frac{54}{577}, \frac{72}{577}, -\frac{45}{577}, -\frac{45}{577}, \frac{252}{577}, \frac{18}{577}, -\frac{36}{577}, \frac{90}{577}, -\frac{90}{577})$ $+ \frac{18}{577}\sqrt{185e^5} \otimes e_8 + \frac{90}{577}\sqrt{13e^2} \otimes e_9$	{23456, 256, 3579}
9431:4	$0, 0, 0, 0, 0, \frac{4}{1697}\sqrt{30001e^{12}}, \frac{10}{1697}\sqrt{3158e^{16}}, \frac{1}{1697}\sqrt{1891642e^{26}},$ $\frac{1}{1697}\sqrt{495806e^{17}} + \frac{2}{1697}\sqrt{487911e^{34}}$	$(\frac{404}{1697}, -\frac{452}{1697}, \frac{1079}{1697}, -\frac{319}{1697}, \frac{299}{1697}, -\frac{48}{1697}, \frac{356}{1697}, -\frac{500}{1697}, \frac{760}{1697})$ $+ \frac{2}{1697}\sqrt{1103721e^3} \otimes e_8$	{1258, 128, 1456789, 146789, 23569, 2369, 3457, 347}
9431:4	$0, 0, 0, 0, 0, \frac{1}{519}\sqrt{37490e^{12}}, \frac{1}{173}\sqrt{1630e^{16}}, \frac{2}{519}\sqrt{15322e^{26}},$ $\frac{1}{519}\sqrt{19234e^{17}} + \frac{1}{519}\sqrt{37490e^{34}}$	$(\frac{14}{173}, -\frac{17}{519}, \frac{57}{173}, -\frac{62}{519}, -\frac{60}{173}, \frac{25}{519}, \frac{67}{519}, \frac{8}{519}, \frac{109}{519})$ $+ \frac{1}{519}\sqrt{75958e^2} \otimes e_5 + \frac{1}{519}\sqrt{75958e^3} \otimes e_8$	{128, 1456789, 2369, 3457}
9431:4	$0, 0, 0, 0, 0, \frac{42}{4297}\sqrt{1147e^{12}}, \frac{42}{4297}\sqrt{505e^{16}}, \frac{42}{4297}\sqrt{699e^{26}},$ $\frac{84}{4297}\sqrt{214e^{17}} + \frac{42}{4297}\sqrt{582e^{34}}$	$(-\frac{294}{4297}, \frac{756}{4297}, -\frac{63}{4297}, -\frac{63}{4297}, -\frac{1176}{4297}, \frac{462}{4297}, \frac{168}{4297}, \frac{1218}{4297}, -\frac{126}{4297})$ $+ \frac{42}{4297}\sqrt{1695e^1} \otimes e_5 + \frac{42}{4297}\sqrt{2083e^2} \otimes e_9$	{123478, 1278, 13689}
9431:4	$0, 0, 0, 0, 0, \frac{4}{137}\sqrt{218e^{12}}, \frac{2}{137}\sqrt{763e^{16}}, \frac{2}{137}\sqrt{763e^{26}},$ $\frac{4}{137}\sqrt{109e^{17}} + \frac{4}{137}\sqrt{218e^{34}}$	$(\frac{9}{137}, \frac{13}{137}, \frac{129}{137}, -\frac{89}{137}, \frac{28}{137}, \frac{22}{137}, \frac{31}{137}, \frac{35}{137}, \frac{40}{137})$ $+ \frac{218}{137}e^3 \otimes e_4$	{135689, 13689, 145689, 14689, 235679, 23679, 245679, 24679}
9431:4	$0, 0, 0, 0, 0, \frac{4}{1721}\sqrt{72239e^{12}}, \frac{8}{1721}\sqrt{25897e^{16}}, \frac{1}{1721}\sqrt{280778e^{26}},$ $\frac{1}{1721}\sqrt{1223974e^{17}} + \frac{10}{1721}\sqrt{1363e^{34}}$	$(\frac{240}{1721}, -\frac{22}{1721}, \frac{349}{1721}, \frac{349}{1721}, -\frac{1123}{1721}, \frac{218}{1721}, \frac{458}{1721}, \frac{196}{1721}, \frac{698}{1721})$ $+ \frac{6}{1721}\sqrt{107677e^1} \otimes e_5$	{1237, 13469, 169, 23456789, 256789, 358}
9431:4	$0, 0, 0, 0, 0, \frac{2}{5561}\sqrt{467165e^{12}}, \frac{2}{5561}\sqrt{239990e^{16}}, \frac{10}{5561}\sqrt{55454e^{26}},$ $\frac{2}{5561}\sqrt{735115e^{17}} + \frac{8}{5561}\sqrt{150285e^{34}}$	$(\frac{1008}{5561}, -\frac{1019}{5561}, \frac{705}{5561}, \frac{1300}{5561}, -\frac{1625}{5561}, -\frac{11}{5561}, \frac{997}{5561}, -\frac{1030}{5561}, \frac{2005}{5561})$ $+ \frac{26}{5561}\sqrt{15145e^3} \otimes e_5 + \frac{4}{5561}\sqrt{813170e^4} \otimes e_8$	{1258, 136789, 24569, 347}
9431:4	$0, 0, 0, 0, 0, \frac{36}{329}\sqrt{7e^{12}}, \frac{9}{329}\sqrt{47e^{16}}, \frac{36}{329}\sqrt{13e^{26}},$ $\frac{18}{329}\sqrt{14e^{17}} + \frac{36}{329}\sqrt{7e^{34}}$	$(-\frac{27}{329}, \frac{36}{329}, \frac{18}{329}, -\frac{9}{47}, \frac{18}{47}, \frac{9}{329}, -\frac{18}{329}, \frac{45}{329}, -\frac{45}{329})$ $+ \frac{45}{329}\sqrt{13e^2} \otimes e_9 + \frac{81}{329}e^3 \otimes e_4 + \frac{9}{329}\sqrt{185e^5} \otimes e_8$	{3579, 4579}
9431:4	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{47e^{12}}, \frac{2}{37}\sqrt{47e^{16}}, \frac{1}{37}\sqrt{1222e^{26}},$ $\frac{1}{37}\sqrt{94e^{17}} + \frac{2}{37}\sqrt{47e^{34}}$	$(\frac{6}{37}, -\frac{8}{37}, \frac{5}{37}, \frac{5}{37}, 1, -\frac{2}{37}, \frac{4}{37}, -\frac{10}{37}, \frac{10}{37})$ $+ \frac{2}{37}\sqrt{705e^5} \otimes e_8$	{12389, 134678, 1678, 23456, 256, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:4	$0, 0, 0, 0, 0, \frac{4}{307} \sqrt{1173}e^{12}, \frac{2}{307} \sqrt{966}e^{16}, \frac{12}{307} \sqrt{161}e^{26},$ $\frac{2}{307} \sqrt{2346}e^{17} + \frac{4}{307} \sqrt{1173}e^{34}$	$(-\frac{46}{307}, \frac{86}{307}, \frac{43}{307}, -\frac{95}{307}, \frac{42}{307}, \frac{40}{307}, -\frac{6}{307}, \frac{126}{307}, -\frac{52}{307})$ $+\frac{138}{307}e^3 \otimes e_4 + \frac{28}{307} \sqrt{69}e^2 \otimes e_9$	{3579, 379, 4579, 479}
9431:4	$0, 0, 0, 0, 0, \frac{6}{5533} \sqrt{32953}e^{12}, \frac{6}{5533} \sqrt{14849}e^{16}, \frac{12}{5533} \sqrt{15531}e^{26},$ $\frac{78}{5533} \sqrt{31}e^{17} + \frac{12}{5533} \sqrt{13857}e^{34}$	$(-\frac{186}{5533}, \frac{291}{5533}, \frac{954}{5533}, -\frac{111}{503}, \frac{567}{5533}, \frac{105}{5533}, -\frac{81}{5533}, \frac{36}{503}, -\frac{267}{5533})$ $+\frac{30}{5533} \sqrt{2697}e^3 \otimes e_8 + \frac{6}{5533} \sqrt{86521}e^2 \otimes e_9$	{23456, 2346, 3579, 379}
9431:4	$0, 0, 0, 0, 0, \frac{8}{4805} \sqrt{72239}e^{12}, \frac{16}{4805} \sqrt{25897}e^{16}, \frac{2}{4805} \sqrt{280778}e^{26},$ $\frac{2}{4805} \sqrt{1223974}e^{17} + \frac{4}{961} \sqrt{1363}e^{34}$	$(\frac{96}{961}, -\frac{44}{4805}, \frac{2061}{4805}, \frac{133}{961}, -\frac{2246}{4805}, \frac{436}{4805}, \frac{916}{4805}, \frac{392}{4805}, \frac{1396}{4805})$ $+\frac{12}{4805} \sqrt{107677}e^1 \otimes e_5 + \frac{2726}{4805}e^3 \otimes e_4$	{1237, 1247, 358, 458}
9431:4	$0, 0, 0, 0, 0, \frac{4}{265} \sqrt{95}e^{12}, \frac{4}{265} \sqrt{190}e^{16}, \frac{4}{265} \sqrt{190}e^{26},$ $\frac{4}{265} \sqrt{1045}e^{17} + \frac{2}{265} \sqrt{3990}e^{34}$	$(-\frac{16}{265}, \frac{28}{265}, \frac{17}{53}, -\frac{21}{53}, \frac{34}{265}, \frac{12}{265}, -\frac{4}{265}, \frac{8}{53}, -\frac{4}{53})$ $+\frac{2}{265} \sqrt{13110}e^5 \otimes e_9 + \frac{38}{53}e^3 \otimes e_4$	{12369, 12469, 36789, 46789}
9431:5	$0, 0, 0, 0, 0, \frac{2}{95} \sqrt{170}e^{12}, \frac{4}{95} \sqrt{85}e^{16}, \frac{1}{95} \sqrt{1190}e^{26} + \frac{2}{19} \sqrt{51}e^{34},$ $\frac{1}{95} \sqrt{4930}e^{17} + \frac{2}{95} \sqrt{510}e^{35}$	$(-\frac{16}{95}, \frac{28}{95}, -\frac{5}{19}, \frac{13}{19}, \frac{1}{19}, \frac{12}{95}, -\frac{4}{95}, \frac{8}{19}, -\frac{4}{19})$ $+\frac{2}{95} \sqrt{3315}e^4 \otimes e_9$	{123689, 1478, 2345, 5679}
9431:5	$0, 0, 0, 0, 0, \frac{14}{585} \sqrt{105}e^{12}, \frac{7}{585} \sqrt{210}e^{16}, \frac{7}{585} \sqrt{1235}e^{26} + \frac{7}{585} \sqrt{55}e^{34},$ $\frac{7}{585} \sqrt{655}e^{17} + \frac{7}{117} \sqrt{86}e^{35}$	$(\frac{7}{39}, -\frac{7}{39}, \frac{14}{117}, -\frac{35}{117}, \frac{28}{117}, 0, \frac{7}{39}, -\frac{7}{39}, \frac{14}{39})$ $+\frac{14}{117} \sqrt{23}e^3 \otimes e_4 + \frac{7}{585} \sqrt{2945}e^5 \otimes e_8$	{1248, 136789}
9431:5	$0, 0, 0, 0, 0, \frac{6}{109} \sqrt{11}e^{12}, \frac{3}{109} \sqrt{22}e^{16}, \frac{3}{109} \sqrt{87}e^{26} + \frac{3}{109} \sqrt{21}e^{34},$ $\frac{3}{109} \sqrt{5}e^{17} + \frac{3}{109} \sqrt{78}e^{35}$	$(-\frac{3}{109}, \frac{3}{109}, -\frac{18}{109}, \frac{21}{109}, \frac{12}{109}, 0, -\frac{3}{109}, \frac{3}{109}, -\frac{6}{109})$ $+\frac{27}{109}e^5 \otimes e_8 + \frac{6}{109} \sqrt{29}e^2 \otimes e_9$	{2356, 4579}
9431:5	$0, 0, 0, 0, 0, \frac{7}{585} \sqrt{210}e^{12}, \frac{14}{585} \sqrt{105}e^{16}, \frac{7}{585} \sqrt{655}e^{26} + \frac{7}{117} \sqrt{86}e^{34},$ $\frac{7}{585} \sqrt{1235}e^{17} + \frac{7}{585} \sqrt{55}e^{35}$	$(-\frac{28}{195}, \frac{49}{195}, \frac{14}{117}, \frac{28}{117}, -\frac{35}{117}, \frac{7}{65}, -\frac{7}{195}, \frac{14}{39}, -\frac{7}{39})$ $+\frac{14}{117} \sqrt{23}e^3 \otimes e_5 + \frac{7}{585} \sqrt{2945}e^4 \otimes e_9$	{123689, 5679}
9431:5	$0, 0, 0, 0, 0, \frac{6}{3793} \sqrt{113423}e^{12}, \frac{6}{3793} \sqrt{36259}e^{16},$ $\frac{6}{3793} \sqrt{167559}e^{26} + \frac{30}{3793} \sqrt{3333}e^{34}, \frac{12}{3793} \sqrt{10706}e^{17} + \frac{6}{3793} \sqrt{141198}e^{35}$	$(-\frac{606}{3793}, \frac{1011}{3793}, \frac{9}{3793}, \frac{1407}{3793}, -\frac{816}{3793}, \frac{405}{3793}, -\frac{201}{3793}, \frac{1416}{3793}, -\frac{807}{3793})$ $+\frac{78}{3793} \sqrt{1919}e^2 \otimes e_9$	{2356, 246, 379, 4579}
9431:5	$0, 0, 0, 0, 0, \frac{4}{95} \sqrt{85}e^{12}, \frac{2}{95} \sqrt{170}e^{16}, \frac{1}{95} \sqrt{4930}e^{26} + \frac{2}{95} \sqrt{510}e^{34},$ $\frac{1}{95} \sqrt{1190}e^{17} + \frac{2}{19} \sqrt{51}e^{35}$	$(\frac{4}{19}, -\frac{4}{19}, -\frac{5}{19}, \frac{1}{19}, \frac{13}{19}, 0, \frac{4}{19}, -\frac{4}{19}, \frac{8}{19})$ $+\frac{2}{95} \sqrt{3315}e^5 \otimes e_8$	{1248, 136789, 2569, 3457}
9431:5	$0, 0, 0, 0, 0, \frac{3}{82} \sqrt{73}e^{12}, \frac{21}{164} \sqrt{2}e^{16}, \frac{3}{164} \sqrt{426}e^{26} + \frac{9}{164} \sqrt{30}e^{34},$ $\frac{3}{164} \sqrt{34}e^{17} + \frac{3}{82} \sqrt{129}e^{35}$	$(-\frac{3}{41}, \frac{6}{41}, \frac{9}{41}, 0, -\frac{12}{41}, \frac{3}{41}, 0, \frac{9}{41}, -\frac{3}{41})$ $+\frac{3}{164} \sqrt{402}e^3 \otimes e_4 + \frac{3}{164} \sqrt{778}e^2 \otimes e_9$	{2356, 246, 379, 4579}
9431:5	$0, 0, 0, 0, 0, \frac{3}{82} \sqrt{73}e^{12}, \frac{21}{164} \sqrt{2}e^{16}, \frac{3}{164} \sqrt{426}e^{26} + \frac{9}{164} \sqrt{30}e^{34},$ $\frac{3}{164} \sqrt{34}e^{17} + \frac{3}{82} \sqrt{129}e^{35}$	$(-\frac{3}{41}, \frac{6}{41}, \frac{9}{41}, 0, -\frac{12}{41}, \frac{3}{41}, 0, \frac{9}{41}, -\frac{3}{41})$ $-\frac{3}{164} \sqrt{402}e^3 \otimes e_4 + \frac{3}{164} \sqrt{778}e^2 \otimes e_9$	{2356, 246, 379, 4579}
9431:5	$0, 0, 0, 0, 0, \frac{2}{3641} \sqrt{783505}e^{12}, \frac{20}{3641} \sqrt{2694}e^{16},$ $\frac{8}{3641} \sqrt{42655}e^{26} + \frac{8}{3641} \sqrt{51635}e^{34}, \frac{2}{3641} \sqrt{859835}e^{17} + \frac{4}{3641} \sqrt{821670}e^{35}$	$(\frac{578}{3641}, \frac{1}{331}, \frac{2545}{3641}, -\frac{1945}{3641}, -\frac{800}{3641}, \frac{589}{3641}, \frac{1167}{3641}, \frac{600}{3641}, \frac{1745}{3641})$ $+\frac{2}{3641} \sqrt{6683365}e^3 \otimes e_4$	{23567, 2467, 39, 459}
9431:5	$0, 0, 0, 0, 0, \frac{51}{5969} \sqrt{3990}e^{26} + \frac{51}{5969} \sqrt{1230}e^{34}, \frac{51}{5969} \sqrt{1246}e^{17} + \frac{612}{5969} \sqrt{23}e^{35}$	$(-\frac{867}{5969}, \frac{1530}{5969}, \frac{765}{5969}, \frac{1428}{5969}, -\frac{1836}{5969}, \frac{663}{5969}, -\frac{204}{5969}, \frac{2193}{5969}, -\frac{1071}{5969})$ $+\frac{51}{5969} \sqrt{1986}e^3 \otimes e_5 + \frac{51}{5969} \sqrt{8326}e^2 \otimes e_9$	{379, 4579}
9431:5	$0, 0, 0, 0, 0, \frac{20}{3641} \sqrt{2694}e^{12}, \frac{2}{3641} \sqrt{783505}e^{16},$ $\frac{2}{3641} \sqrt{859835}e^{26} + \frac{4}{3641} \sqrt{821670}e^{34}, \frac{8}{3641} \sqrt{42655}e^{17} + \frac{8}{3641} \sqrt{51635}e^{35}$	$(-\frac{109}{3641}, \frac{927}{3641}, \frac{2545}{3641}, -\frac{800}{3641}, -\frac{1945}{3641}, \frac{818}{3641}, \frac{709}{3641}, \frac{1745}{3641}, \frac{600}{3641})$ $+\frac{2}{3641} \sqrt{6683365}e^3 \otimes e_5$	{12347, 1257, 38, 458}
9431:6	$0, 0, 0, 0, 0, \frac{26}{313} \sqrt{105}e^{13} + \frac{52}{313} \sqrt{2}e^{26} + \frac{104}{313}e^{45}, \frac{26}{313} \sqrt{85}e^{17}$	$(-\frac{78}{313}, \frac{104}{313}, \frac{208}{313}, \frac{65}{313}, \frac{65}{313}, \frac{26}{313}, -\frac{52}{313}, \frac{130}{313}, -\frac{130}{313})$ $+\frac{52}{313} \sqrt{66}e^3 \otimes e_9$	{14589, 189, 2479}
9431:6	$0, 0, 0, 0, 0, \frac{8}{3013} \sqrt{1207}e^{12}, \frac{8}{3013} \sqrt{37417}e^{16},$ $\frac{2}{3013} \sqrt{981291}e^{13} + \frac{34}{3013} \sqrt{710}e^{26} + \frac{12}{3013} \sqrt{44659}e^{45}, \frac{2}{3013} \sqrt{1532890}e^{17}$	$(-\frac{464}{3013}, \frac{659}{3013}, \frac{1318}{3013}, \frac{1681}{3013}, -\frac{827}{3013}, \frac{195}{3013}, -\frac{269}{3013}, \frac{854}{3013}, -\frac{733}{3013})$ $+\frac{4}{3013} \sqrt{756789}e^4 \otimes e_9$	{12457, 169, 256789, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:6	$0, 0, 0, 0, 0, \frac{7}{517}\sqrt{790}e^{12}, \frac{7}{517}\sqrt{353}e^{16},$ $\frac{7}{517}\sqrt{365}e^{13} + \frac{7}{517}\sqrt{66}e^{26} + \frac{7}{1034}\sqrt{1254}e^{45}, \frac{21}{1034}\sqrt{178}e^{17}$	$(\frac{21}{517}, -\frac{14}{517}, -\frac{28}{517}, \frac{98}{517}, -\frac{105}{517}, \frac{7}{517}, \frac{28}{517}, -\frac{7}{517}, \frac{49}{517})$ $+ \frac{7}{1034}\sqrt{2098}e^1 \otimes e_3 + \frac{7}{517}\sqrt{406}e^4 \otimes e_9$	{12457, 169}
9431:6	$0, 0, 0, 0, 0, \frac{10}{251}\sqrt{249}e^{12}, \frac{20}{251}\sqrt{3}e^{16},$ $\frac{90}{251}\sqrt{3}e^{13} + \frac{180}{251}e^{26} + \frac{20}{251}\sqrt{3}e^{45}, \frac{10}{251}\sqrt{249}e^{17}$	$(-\frac{50}{251}, \frac{60}{251}, \frac{120}{251}, \frac{35}{251}, \frac{35}{251}, \frac{10}{251}, -\frac{40}{251}, \frac{70}{251}, -\frac{90}{251})$ $+ \frac{20}{251}\sqrt{159}e^2 \otimes e_9$	{123478, 134689}
9431:6	$0, 0, 0, 0, 0, \frac{5}{163}\sqrt{249}e^{12}, \frac{10}{163}\sqrt{3}e^{16},$ $\frac{45}{163}\sqrt{3}e^{13} + \frac{90}{163}e^{26} + \frac{10}{163}\sqrt{3}e^{45}, \frac{5}{163}\sqrt{249}e^{17}$	$(-\frac{25}{163}, \frac{30}{163}, \frac{60}{163}, \frac{55}{163}, -\frac{20}{163}, \frac{5}{163}, -\frac{20}{163}, \frac{35}{163}, -\frac{45}{163})$ $+ \frac{10}{163}\sqrt{159}e^2 \otimes e_9 + \frac{75}{163}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:6	$0, 0, 0, 0, 0, \frac{5}{163}\sqrt{249}e^{12}, \frac{10}{163}\sqrt{3}e^{16},$ $\frac{45}{163}\sqrt{3}e^{13} + \frac{90}{163}e^{26} + \frac{10}{163}\sqrt{3}e^{45}, \frac{5}{163}\sqrt{249}e^{17}$	$(-\frac{25}{163}, \frac{30}{163}, \frac{60}{163}, \frac{55}{163}, -\frac{20}{163}, \frac{5}{163}, -\frac{20}{163}, \frac{35}{163}, -\frac{45}{163})$ $+ \frac{10}{163}\sqrt{159}e^2 \otimes e_9 - \frac{75}{163}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:6	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{679}e^{12}, \frac{2}{61}\sqrt{194}e^{16},$ $\frac{1}{61}\sqrt{291}e^{13} + \frac{2}{61}\sqrt{97}e^{26} + \frac{2}{61}\sqrt{194}e^{45}, \frac{1}{61}\sqrt{679}e^{17}$	$(\frac{3}{61}, \frac{7}{61}, \frac{14}{61}, \frac{57}{61}, -\frac{40}{61}, \frac{10}{61}, \frac{13}{61}, \frac{17}{61}, \frac{16}{61})$ $+ \frac{97}{61}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:6	$0, 0, 0, 0, 0, \frac{13}{241}\sqrt{47}e^{12}, \frac{52}{241}e^{16},$ $\frac{13}{241}\sqrt{105}e^{13} + \frac{26}{241}\sqrt{2}e^{26} + \frac{52}{241}e^{45}, \frac{13}{241}\sqrt{85}e^{17}$	$(-\frac{39}{241}, \frac{52}{241}, \frac{104}{241}, \frac{117}{241}, -\frac{52}{241}, \frac{13}{241}, -\frac{26}{241}, \frac{65}{241}, -\frac{65}{241})$ $+ \frac{169}{241}e^4 \otimes e_5 + \frac{26}{241}\sqrt{66}e^3 \otimes e_9$	{2479, 2579}
9431:6	$0, 0, 0, 0, 0, \frac{14}{193}\sqrt{67}e^{12}, \frac{28}{193}\sqrt{23}e^{16},$ $\frac{70}{193}\sqrt{3}e^{13} + \frac{28}{193}\sqrt{2}e^{26} + \frac{14}{193}\sqrt{38}e^{45}, \frac{14}{193}\sqrt{67}e^{17}$	$(\frac{42}{193}, -\frac{28}{193}, -\frac{56}{193}, -\frac{7}{193}, -\frac{7}{193}, \frac{14}{193}, \frac{56}{193}, -\frac{14}{193}, \frac{98}{193})$ $+ \frac{126}{193}\sqrt{2}e^1 \otimes e_3$	{12457, 127, 14569, 169}
9431:7	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{55}e^{12}, \frac{4}{53}\sqrt{33}e^{16}, \frac{2}{53}\sqrt{33}e^{26},$ $\frac{2}{53}\sqrt{165}e^{17} + \frac{2}{53}\sqrt{33}e^{23}$	$(\frac{1}{53}, \frac{1}{53}, \frac{3}{53}, \frac{26}{53}, -\frac{21}{53}, \frac{2}{53}, \frac{3}{53}, \frac{3}{53}, \frac{4}{53})$ $+ \frac{4}{53}\sqrt{55}e^4 \otimes e_9 + \frac{6}{53}\sqrt{33}e^1 \otimes e_5$	{12347, 1369, 256789, 458}
9431:7	$0, 0, 0, 0, 0, \frac{74}{7261}\sqrt{1045}e^{12}, \frac{37}{7261}\sqrt{430}e^{16}, \frac{37}{7261}\sqrt{4202}e^{26},$ $\frac{370}{7261}\sqrt{14}e^{17} + \frac{1406}{7261}\sqrt{2}e^{23}$	$(-\frac{259}{7261}, \frac{592}{7261}, -\frac{777}{7261}, -\frac{1628}{7261}, \frac{2294}{7261}, \frac{333}{7261}, \frac{74}{7261}, \frac{925}{7261}, -\frac{185}{7261})$ $+ \frac{37}{7261}\sqrt{3470}e^5 \otimes e_8 + \frac{74}{7261}\sqrt{1390}e^2 \otimes e_3 + \frac{999}{7261}\sqrt{6}e^1 \otimes e_4$	{1278, 345}
9431:7	$0, 0, 0, 0, 0, \frac{84}{1361}\sqrt{37}e^{12}, \frac{105}{1361}\sqrt{11}e^{16}, \frac{84}{1361}\sqrt{65}e^{26},$ $\frac{126}{1361}\sqrt{3}e^{17} + \frac{42}{1361}\sqrt{103}e^{23}$	$(-\frac{105}{1361}, \frac{126}{1361}, -\frac{315}{1361}, \frac{588}{1361}, \frac{252}{1361}, \frac{21}{1361}, -\frac{84}{1361}, \frac{147}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{1257}e^2 \otimes e_3 + \frac{357}{1361}e^5 \otimes e_9 + \frac{651}{1361}e^4 \otimes e_8$	{135678, 2456}
9431:7	$0, 0, 0, 0, 0, \frac{1}{1345}\sqrt{1259934}e^{12}, \frac{1345}{1345}\sqrt{296322}e^{16}, \frac{2}{1345}\sqrt{337038}e^{26},$ $\frac{2}{1345}\sqrt{7917}e^{17} + \frac{156}{1345}\sqrt{29}e^{23}$	$(-\frac{209}{1345}, \frac{504}{1345}, -\frac{627}{1345}, \frac{203}{1345}, \frac{203}{1345}, \frac{59}{269}, \frac{86}{1345}, \frac{799}{1345}, -\frac{123}{1345})$ $+ \frac{2}{1345}\sqrt{645801}e^2 \otimes e_3$	{12458, 1248, 128, 3457, 347, 37}
9431:7	$0, 0, 0, 0, 0, \frac{2}{3349}\sqrt{619755}e^{12}, \frac{40}{3349}\sqrt{523}e^{16}, \frac{2}{3349}\sqrt{360347}e^{26},$ $\frac{2}{3349}\sqrt{237965}e^{17} + \frac{2}{3349}\sqrt{345703}e^{23}$	$(-\frac{151}{3349}, \frac{593}{3349}, -\frac{453}{3349}, -\frac{1197}{3349}, \frac{346}{3349}, \frac{26}{3349}, \frac{291}{3349}, \frac{1035}{3349}, \frac{140}{3349})$ $+ \frac{2}{3349}\sqrt{806989}e^1 \otimes e_4 + \frac{4}{3349}\sqrt{190895}e^2 \otimes e_3$	{12578, 1278, 34, 345}
9431:7	$0, 0, 0, 0, 0, \frac{4}{3299}\sqrt{68134}e^{12}, \frac{4}{3299}\sqrt{1254}e^{16}, \frac{4}{3299}\sqrt{82137}e^{26},$ $\frac{4}{3299}\sqrt{40755}e^{17} + \frac{4}{3299}\sqrt{166155}e^{23}$	$(-\frac{140}{3299}, \frac{454}{3299}, -\frac{420}{3299}, \frac{1706}{3299}, -\frac{1218}{3299}, \frac{314}{3299}, \frac{174}{3299}, \frac{768}{3299}, \frac{34}{3299})$ $+ \frac{12}{3299}\sqrt{36993}e^2 \otimes e_5 + \frac{484}{3299}\sqrt{19}e^4 \otimes e_9$	{1289, 145678, 2346, 3579}
9431:7	$0, 0, 0, 0, 0, \frac{4}{3129}\sqrt{144055}e^{12}, \frac{4}{3129}\sqrt{74786}e^{16}, \frac{2}{3129}\sqrt{236005}e^{26},$ $\frac{20}{3129}\sqrt{1839}e^{17} + \frac{2}{1043}\sqrt{613}e^{23}$	$(\frac{121}{3129}, \frac{106}{1043}, \frac{121}{1043}, -\frac{1105}{3129}, -\frac{908}{3129}, \frac{439}{3129}, \frac{80}{447}, \frac{757}{3129}, \frac{227}{1043})$ $+ \frac{2}{3129}\sqrt{905401}e^1 \otimes e_4 + \frac{32}{3129}\sqrt{3065}e^2 \otimes e_5$	{12378, 135689, 24679, 45}
9431:7	$0, 0, 0, 0, 0, \frac{1}{851}\sqrt{8890}e^{12}, \frac{4}{851}\sqrt{635}e^{16}, \frac{1}{851}\sqrt{151130}e^{26},$ $\frac{1}{851}\sqrt{8890}e^{17} + \frac{1}{851}\sqrt{156210}e^{23}$	$(\frac{117}{851}, -\frac{140}{851}, \frac{351}{851}, \frac{472}{851}, -\frac{284}{851}, -\frac{1}{851}, \frac{94}{851}, -\frac{163}{851}, \frac{211}{851})$ $+ \frac{1}{851}\sqrt{478790}e^4 \otimes e_8 + \frac{1}{851}\sqrt{481330}e^3 \otimes e_5$	{1245679, 145, 2378, 3689}
9431:7	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{15}e^{12}, \frac{36}{71}\sqrt{2}e^{16}, \frac{6}{71}\sqrt{3}e^{26},$ $\frac{12}{71}\sqrt{15}e^{17} + \frac{18}{71}\sqrt{3}e^{23}$	$(\frac{7}{71}, \frac{2}{71}, \frac{21}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{9}{71}, \frac{16}{71}, \frac{11}{71}, \frac{23}{71})$ $+ \frac{6}{71}\sqrt{177}e^1 \otimes e_4$	{1257, 127, 1569, 169, 23456789, 2346789, 3458, 348}
9431:7	$0, 0, 0, 0, 0, \frac{1}{811}\sqrt{138270}e^{12}, \frac{1}{811}\sqrt{121510}e^{16}, \frac{1}{811}\sqrt{93018}e^{26},$ $\frac{1}{811}\sqrt{138270}e^{17} + \frac{2}{811}\sqrt{23883}e^{23}$	$(\frac{71}{811}, -\frac{63}{811}, \frac{213}{811}, \frac{364}{811}, -\frac{348}{811}, \frac{8}{811}, \frac{79}{811}, -\frac{55}{811}, \frac{150}{811})$ $+ \frac{1}{811}\sqrt{222070}e^4 \otimes e_8 + \frac{1}{811}\sqrt{374586}e^1 \otimes e_5$	{1278, 1689, 2345679, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:7	$0, 0, 0, 0, 0, \frac{1}{338}\sqrt{21471e^{12}}, \frac{5}{338}\sqrt{842e^{16}}, \frac{3}{338}\sqrt{12630e^{26}},$ $\frac{1}{338}\sqrt{21471e^{17}} + \frac{1}{169}\sqrt{8841e^{23}}$	$(\frac{17}{169}, -\frac{9}{52}, \frac{51}{169}, 1, \frac{30}{169}, -\frac{49}{676}, \frac{19}{676}, -\frac{83}{338}, \frac{87}{676})$ $+ \frac{1}{169}\sqrt{58519e^4} \otimes e_8$	{123589, 12389, 135678, 13678, 2456, 246, 4579, 479}
9431:7	$0, 0, 0, 0, 0, \frac{300}{3361}\sqrt{10e^{12}}, \frac{30}{3361}\sqrt{130e^{16}}, \frac{120}{3361}\sqrt{145e^{26}},$ $\frac{30}{3361}\sqrt{3045e^{17}} + \frac{30}{3361}\sqrt{1885e^{23}}$	$(\frac{3}{3361}, -\frac{255}{3361}, \frac{9}{3361}, \frac{1743}{3361}, \frac{2004}{3361}, -\frac{252}{3361}, -\frac{249}{3361}, -\frac{507}{3361}, -\frac{246}{3361})$ $+ \frac{30}{3361}\sqrt{6785e^4} \otimes e_8 + \frac{30}{3361}\sqrt{8090e^5} \otimes e_9$	{1234567, 1349, 2789, 568}
9431:7	$0, 0, 0, 0, 0, \frac{6}{4225}\sqrt{88779e^{12}}, \frac{6}{4225}\sqrt{35754e^{16}}, \frac{12}{4225}\sqrt{37370e^{26}},$ $\frac{12}{845}\sqrt{202e^{17}} + \frac{6}{4225}\sqrt{14039e^{23}}$	$(\frac{93}{4225}, \frac{6}{325}, \frac{279}{4225}, \frac{159}{325}, -\frac{348}{845}, \frac{171}{4225}, \frac{264}{4225}, \frac{249}{4225}, \frac{357}{4225})$ $+ \frac{6}{4225}\sqrt{166549e^4} \otimes e_8 + \frac{6}{4225}\sqrt{217958e^2} \otimes e_5$	{1238, 1356789, 2469, 457}
9431:7	$0, 0, 0, 0, 0, \frac{3}{16}\sqrt{5e^{12}}, \frac{3}{8}\sqrt{2e^{16}}, \frac{3}{16}\sqrt{2e^{26}},$ $\frac{3}{16}\sqrt{5e^{17}} + \frac{3}{16}\sqrt{2e^{23}}$	$(\frac{1}{8}, -\frac{1}{32}, \frac{3}{8}, -\frac{7}{16}, -\frac{3}{16}, \frac{3}{32}, \frac{7}{32}, \frac{1}{16}, \frac{11}{32})$ $+ \frac{3}{16}\sqrt{10e^3} \otimes e_5 + \frac{9}{16}\sqrt{2e^1} \otimes e_4$	{1237, 1369, 2456789, 458}
9431:7	$0, 0, 0, 0, 0, \frac{2}{1361}\sqrt{138605e^{12}}, \frac{1}{1361}\sqrt{323898e^{16}}, \frac{2}{1361}\sqrt{74409e^{26}},$ $\frac{5}{1361}\sqrt{43770e^{17}} + \frac{1}{1361}\sqrt{310767e^{23}}$	$(-\frac{65}{1361}, \frac{97}{1361}, -\frac{195}{1361}, 1, \frac{231}{1361}, \frac{32}{1361}, -\frac{33}{1361}, \frac{129}{1361}, -\frac{98}{1361})$ $+ \frac{2}{1361}\sqrt{824335e^4} \otimes e_9$	{125689, 12689, 14578, 1478, 234, 2345, 35679, 3679}
9431:7	$0, 0, 0, 0, 0, \frac{14}{3837}\sqrt{10735e^{12}}, \frac{14}{3837}\sqrt{247e^{16}}, \frac{14}{3837}\sqrt{8151e^{26}},$ $\frac{14}{3837}\sqrt{7999e^{17}} + \frac{112}{3837}\sqrt{323e^{23}}$	$(\frac{259}{3837}, \frac{280}{3837}, \frac{259}{1279}, -\frac{1582}{3837}, \frac{1085}{3837}, \frac{539}{3837}, \frac{266}{1279}, \frac{273}{3837}, \frac{1057}{3837})$ $+ \frac{28}{3837}\sqrt{9367e^2} \otimes e_4 + \frac{70}{3837}\sqrt{1121e^3} \otimes e_5$	{1238, 1346789, 2569, 457}
9431:7	$0, 0, 0, 0, 0, \frac{2}{877}\sqrt{24662e^{12}}, \frac{2}{877}\sqrt{12749e^{16}}, \frac{2}{877}\sqrt{22363e^{26}},$ $\frac{2}{877}\sqrt{19646e^{17}} + \frac{8}{877}\sqrt{4389e^{23}}$	$(\frac{39}{877}, -\frac{35}{877}, \frac{117}{877}, \frac{500}{877}, -\frac{301}{877}, \frac{4}{877}, \frac{43}{877}, -\frac{31}{877}, \frac{82}{877})$ $+ \frac{2}{877}\sqrt{78793e^3} \otimes e_5 + \frac{4}{877}\sqrt{22154e^4} \otimes e_9$	{125689, 14578, 234, 3679}
9431:7	$0, 0, 0, 0, 0, \frac{2}{4409}\sqrt{892510e^{12}}, \frac{4}{4409}\sqrt{99830e^{16}}, \frac{4}{4409}\sqrt{365795e^{26}},$ $\frac{10}{4409}\sqrt{1043e^{17}} + \frac{2}{4409}\sqrt{705515e^{23}}$	$(-\frac{341}{4409}, \frac{467}{4409}, -\frac{1023}{4409}, \frac{2083}{4409}, \frac{356}{4409}, \frac{126}{4409}, -\frac{215}{4409}, \frac{593}{4409}, -\frac{556}{4409})$ $+ \frac{2}{4409}\sqrt{1286615e^4} \otimes e_8 + \frac{4}{4409}\sqrt{1732870e^2} \otimes e_3$	{135678, 13678, 2456, 246}
9431:7	$0, 0, 0, 0, 0, \frac{10}{67}\sqrt{6e^{12}}, \frac{10}{67}\sqrt{3e^{16}}, \frac{2}{67}\sqrt{78e^{26}},$ $\frac{2}{67}\sqrt{105e^{17}} + \frac{2}{67}\sqrt{57e^{23}}$	$(-\frac{3}{67}, \frac{9}{67}, -\frac{9}{67}, -\frac{21}{67}, \frac{18}{67}, \frac{6}{67}, \frac{3}{67}, \frac{15}{67}, 0)$ $+ \frac{2}{67}\sqrt{105e^5} \otimes e_9 + \frac{2}{67}\sqrt{195e^2} \otimes e_3 + \frac{67}{67}\sqrt{246e^1} \otimes e_4$	{12578, 345}
9431:7	$0, 0, 0, 0, 0, \frac{12}{331}\sqrt{115e^{12}}, \frac{6}{331}\sqrt{713e^{16}}, \frac{6}{331}\sqrt{851e^{26}},$ $\frac{12}{331}\sqrt{115e^{17}} + \frac{12}{331}\sqrt{782e^{23}}$	$(\frac{65}{331}, -\frac{23}{331}, \frac{195}{331}, -\frac{219}{331}, \frac{56}{331}, \frac{42}{331}, \frac{107}{331}, \frac{19}{331}, \frac{172}{331})$ $+ \frac{30}{331}\sqrt{253e^3} \otimes e_4$	{123568, 12368, 135789, 13789, 2459, 249, 4567, 467}
9431:7	$0, 0, 0, 0, 0, \frac{2}{3821}\sqrt{1259934e^{12}}, \frac{2}{3821}\sqrt{296322e^{16}}, \frac{4}{3821}\sqrt{337038e^{26}},$ $\frac{4}{3821}\sqrt{7917e^{17}} + \frac{312}{3821}\sqrt{29e^{23}}$	$(-\frac{418}{3821}, \frac{1008}{3821}, -\frac{1254}{3821}, \frac{1537}{3821}, -\frac{725}{3821}, \frac{590}{3821}, \frac{172}{3821}, \frac{1598}{3821}, -\frac{246}{3821})$ $+ \frac{2262}{3821}e^4 \otimes e_5 + \frac{4}{3821}\sqrt{645801e^2} \otimes e_3$	{1248, 1258, 347, 357}
9431:7	$0, 0, 0, 0, 0, \frac{1}{1393}\sqrt{1081410e^{12}}, \frac{1}{1393}\sqrt{141702e^{16}}, \frac{2}{1393}\sqrt{252329e^{26}},$ $\frac{12}{1393}\sqrt{2486e^{17}} + \frac{4}{1393}\sqrt{36047e^{23}}$	$(\frac{1}{1393}, \frac{320}{1393}, \frac{3}{1393}, -\frac{923}{1393}, \frac{235}{1393}, \frac{321}{1393}, \frac{46}{1393}, \frac{641}{1393}, \frac{323}{1393})$ $+ \frac{2}{1393}\sqrt{719697e^2} \otimes e_4$	{12358, 1238, 13456789, 1346789, 2569, 269, 457, 47}
9431:7	$0, 0, 0, 0, 0, \frac{2}{339}\sqrt{4065e^{12}}, \frac{2}{113}\sqrt{542e^{16}}, \frac{2}{339}\sqrt{3794e^{26}},$ $\frac{2}{339}\sqrt{4065e^{17}} + \frac{4}{339}\sqrt{542e^{23}}$	$(\frac{20}{339}, \frac{31}{339}, \frac{20}{113}, 1, -\frac{203}{339}, \frac{17}{113}, \frac{71}{339}, \frac{82}{339}, \frac{91}{339})$ $+ \frac{542}{339}e^4 \otimes e_5$	{123478, 123578, 134689, 135689, 24679, 25679, 4, 5}
9431:7	$0, 0, 0, 0, 0, \frac{4}{2245}\sqrt{72409e^{12}}, \frac{18}{2245}\sqrt{703e^{16}}, \frac{4}{2245}\sqrt{90687e^{26}},$ $\frac{4}{2245}\sqrt{162393e^{17}} + \frac{6}{2245}\sqrt{2109e^{23}}$	$(-\frac{289}{2245}, \frac{539}{2245}, -\frac{867}{2245}, \frac{1078}{2245}, \frac{273}{2245}, \frac{50}{2245}, -\frac{39}{2245}, \frac{789}{2245}, -\frac{328}{2245})$ $+ \frac{2}{2245}\sqrt{565915e^4} \otimes e_9 + \frac{2}{2245}\sqrt{820401e^2} \otimes e_3$	{1345678, 134678, 2456, 246}
9431:8	$0, 0, 0, 0, 0, \frac{51}{9437}\sqrt{322e^{12}}, \frac{51}{9437}\sqrt{2174e^{16}},$ $\frac{51}{9437}\sqrt{5486e^{13}} + \frac{102}{9437}\sqrt{623e^{26}}, \frac{102}{9437}\sqrt{766e^{17}} + \frac{102}{9437}\sqrt{1371e^{34}}$	$(\frac{765}{9437}, -\frac{357}{9437}, -\frac{714}{9437}, \frac{2652}{9437}, -\frac{3315}{9437}, \frac{408}{9437}, \frac{1173}{9437}, \frac{51}{9437}, \frac{1938}{9437})$ $+ \frac{102}{9437}\sqrt{2333e^4} \otimes e_8 + \frac{51}{9437}\sqrt{8086e^3} \otimes e_5$	{134, 3689}
9431:8	$0, 0, 0, 0, 0, \frac{1}{187}\sqrt{11577e^{12}}, \frac{4}{187}\sqrt{454e^{16}}, \frac{1}{187}\sqrt{12939e^{13}} + \frac{4}{187}\sqrt{454e^{26}},$ $\frac{5}{187}\sqrt{227e^{17}} + \frac{2}{187}\sqrt{8626e^{34}}$	$(\frac{35}{187}, -\frac{6}{187}, -\frac{12}{187}, \frac{111}{187}, -\frac{116}{187}, \frac{29}{187}, \frac{64}{187}, \frac{23}{187}, \frac{9}{17})$ $+ \frac{1}{187}\sqrt{68781e^4} \otimes e_5$	{1235789, 13468, 23467, 359}
9431:8	$0, 0, 0, 0, 0, \frac{1}{712}\sqrt{4638e^{12}}, \frac{1}{712}\sqrt{42515e^{16}},$ $\frac{15}{712}\sqrt{1546e^{13}} + \frac{1}{712}\sqrt{42515e^{26}}, \frac{1}{712}\sqrt{156146e^{17}} + \frac{7}{356}\sqrt{1546e^{34}}$	$(\frac{43}{1424}, \frac{291}{1424}, \frac{291}{712}, -\frac{81}{712}, -\frac{241}{356}, \frac{167}{712}, \frac{377}{1424}, \frac{625}{1424}, \frac{105}{356})$ $+ \frac{1}{712}\sqrt{922962e^3} \otimes e_5$	{12456789, 158, 257, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:8	$0, 0, 0, 0, 0, \frac{66}{1541}\sqrt{31}e^{12}, \frac{132}{1541}e^{16}, \frac{33}{1541}\sqrt{290}e^{13} + \frac{132}{1541}e^{26},$ $\frac{66}{1541}\sqrt{109}e^{17} + \frac{33}{1541}\sqrt{374}e^{34}$	$(-\frac{132}{1541}, \frac{231}{1541}, \frac{462}{1541}, -\frac{627}{1541}, \frac{924}{1541}, \frac{99}{1541}, -\frac{33}{1541}, \frac{330}{1541}, -\frac{165}{1541})$ $+ \frac{33}{1541}\sqrt{1234}e^3 \otimes e_4 + \frac{99}{1541}\sqrt{166}e^5 \otimes e_9$	{12369, 36789}
9431:8	$0, 0, 0, 0, 0, \frac{12}{3013}\sqrt{44659}e^{12}, \frac{8}{3013}\sqrt{1207}e^{16},$ $\frac{2}{3013}\sqrt{981291}e^{13} + \frac{2}{3013}\sqrt{1532890}e^{26}, \frac{34}{3013}\sqrt{710}e^{17} + \frac{8}{3013}\sqrt{37417}e^{34}$	$(\frac{140}{3013}, \frac{411}{3013}, \frac{822}{3013}, \frac{9}{3013}, -\frac{2003}{3013}, \frac{551}{3013}, \frac{691}{3013}, \frac{962}{3013}, \frac{831}{3013})$ $+ \frac{4}{3013}\sqrt{756789}e^2 \otimes e_5$	{123789, 134568, 23467, 359}
9431:8	$0, 0, 0, 0, 0, \frac{4}{757}\sqrt{2737}e^{12}, \frac{4}{757}\sqrt{7429}e^{16},$ $\frac{2}{757}\sqrt{64515}e^{13} + \frac{4}{757}\sqrt{7429}e^{26}, \frac{4}{757}\sqrt{21505}e^{17} + \frac{6}{757}\sqrt{10166}e^{34}$	$(-\frac{20}{757}, \frac{35}{757}, \frac{70}{757}, -\frac{95}{757}, 1, \frac{15}{757}, -\frac{5}{757}, \frac{50}{757}, -\frac{25}{757})$ $+ \frac{2}{757}\sqrt{241638}e^5 \otimes e_9$	{1234578, 13689, 23679, 345}
9431:8	$0, 0, 0, 0, 0, \frac{27}{4301}\sqrt{3262}e^{12}, \frac{27}{4301}\sqrt{310}e^{16},$ $\frac{135}{4301}\sqrt{138}e^{13} + \frac{54}{4301}\sqrt{915}e^{26}, \frac{108}{4301}\sqrt{94}e^{17} + \frac{54}{4301}\sqrt{879}e^{34}$	$(-\frac{243}{4301}, \frac{27}{253}, \frac{54}{253}, -\frac{108}{391}, \frac{189}{4301}, \frac{216}{4301}, -\frac{27}{4301}, \frac{675}{4301}, -\frac{270}{4301})$ $+ \frac{270}{4301}\sqrt{67}e^2 \otimes e_9 + \frac{27}{4301}\sqrt{762}e^3 \otimes e_5$	{123478, 13689}
9431:8	$0, 0, 0, 0, 0, \frac{21}{4961}\sqrt{3622}e^{12}, \frac{42}{4961}\sqrt{295}e^{16},$ $\frac{315}{4961}\sqrt{14}e^{13} + \frac{483}{4961}\sqrt{6}e^{26}, \frac{21}{4961}\sqrt{2206}e^{17} + \frac{84}{4961}\sqrt{177}e^{34}$	$(-\frac{147}{4961}, \frac{378}{4961}, \frac{756}{4961}, -\frac{819}{4961}, -\frac{588}{4961}, \frac{21}{451}, \frac{84}{4961}, \frac{609}{4961}, -\frac{63}{4961})$ $+ \frac{21}{4961}\sqrt{2370}e^1 \otimes e_5 + \frac{357}{4961}\sqrt{22}e^2 \otimes e_9$	{123478, 13689}
9431:8	$0, 0, 0, 0, 0, \frac{100}{2693}\sqrt{78}e^{12}, \frac{50}{2693}\sqrt{299}e^{16},$ $\frac{50}{2693}\sqrt{473}e^{13} + \frac{50}{2693}\sqrt{221}e^{26}, \frac{50}{2693}\sqrt{182}e^{17} + \frac{100}{2693}\sqrt{65}e^{34}$	$(\frac{325}{2693}, -\frac{200}{2693}, -\frac{400}{2693}, \frac{1175}{2693}, \frac{925}{2693}, \frac{125}{2693}, \frac{450}{2693}, -\frac{75}{2693}, \frac{775}{2693})$ $+ \frac{50}{2693}\sqrt{1102}e^4 \otimes e_8 + \frac{50}{2693}\sqrt{1258}e^1 \otimes e_5$	{1278, 245679}
9431:8	$0, 0, 0, 0, 0, \frac{104}{313}e^{12}, \frac{26}{313}\sqrt{47}e^{16}, \frac{26}{313}\sqrt{105}e^{13} + \frac{26}{313}\sqrt{85}e^{26},$ $\frac{52}{313}\sqrt{2}e^{17} + \frac{104}{313}e^{34}$	$(\frac{15}{313}, -\frac{20}{313}, -\frac{40}{313}, \frac{65}{313}, 1, -\frac{5}{313}, \frac{10}{313}, -\frac{25}{313}, \frac{25}{313})$ $+ \frac{52}{313}\sqrt{66}e^5 \otimes e_8$	{12345679, 135, 2378, 34689}
9431:8	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{77}e^{12}, \frac{3}{221}\sqrt{58}e^{16}, \frac{3}{221}\sqrt{430}e^{13} + \frac{6}{221}\sqrt{85}e^{26},$ $\frac{3}{221}\sqrt{154}e^{17} + \frac{6}{221}\sqrt{77}e^{34}$	$(-\frac{3}{221}, 0, 0, -\frac{9}{221}, \frac{42}{221}, -\frac{3}{221}, -\frac{6}{221}, -\frac{3}{221}, -\frac{9}{221})$ $+ \frac{3}{221}\sqrt{206}e^3 \otimes e_4 + \frac{6}{221}\sqrt{141}e^2 \otimes e_9$	{1234578, 123478}
9431:8	$0, 0, 0, 0, 0, \frac{18}{509}\sqrt{91}e^{12}, \frac{36}{509}e^{16}, \frac{27}{509}\sqrt{42}e^{13} + \frac{18}{509}\sqrt{115}e^{26},$ $\frac{9}{509}\sqrt{182}e^{17} + \frac{18}{509}\sqrt{91}e^{34}$	$(-\frac{27}{509}, \frac{36}{509}, \frac{72}{509}, -\frac{117}{509}, \frac{126}{509}, \frac{9}{509}, -\frac{18}{509}, \frac{45}{509}, -\frac{45}{509})$ $+ \frac{9}{509}\sqrt{122}e^5 \otimes e_8 + \frac{9}{509}\sqrt{766}e^2 \otimes e_9$	{123478, 13689}
9431:8	$0, 0, 0, 0, 0, \frac{29}{1913}\sqrt{46}e^{12}, \frac{58}{1913}\sqrt{35}e^{16},$ $\frac{58}{1913}\sqrt{15}e^{13} + \frac{29}{1913}\sqrt{787}e^{26}, \frac{29}{1913}\sqrt{229}e^{17} + \frac{87}{1913}\sqrt{131}e^{34}$	$(\frac{116}{1913}, -\frac{203}{1913}, -\frac{406}{1913}, \frac{551}{1913}, \frac{986}{1913}, -\frac{87}{1913}, \frac{29}{1913}, -\frac{290}{1913}, \frac{145}{1913})$ $+ \frac{29}{1913}\sqrt{1545}e^5 \otimes e_9 + \frac{87}{1913}\sqrt{206}e^4 \otimes e_8$	{15678, 479}
9431:8	$0, 0, 0, 0, 0, \frac{4}{3025}\sqrt{182174}e^{12}, \frac{2}{3025}\sqrt{1121869}e^{16},$ $\frac{2}{3025}\sqrt{453129}e^{13} + \frac{2}{3025}\sqrt{330911}e^{26}, \frac{8}{3025}\sqrt{53038}e^{17} + \frac{8}{3025}\sqrt{14989}e^{34}$	$(\frac{291}{3025}, \frac{32}{605}, \frac{64}{605}, \frac{713}{3025}, -\frac{403}{605}, \frac{41}{275}, \frac{742}{3025}, \frac{611}{3025}, \frac{1033}{3025})$ $+ \frac{12}{3025}\sqrt{80710}e^1 \otimes e_5$	{1237, 13469, 23456789, 358}
9431:8	$0, 0, 0, 0, 0, \frac{7}{157}\sqrt{74}e^{12}, \frac{1}{157}\sqrt{1190}e^{16}, \frac{4}{157}\sqrt{35}e^{13} + \frac{4}{157}\sqrt{357}e^{26},$ $\frac{7}{157}\sqrt{34}e^{17} + \frac{1}{157}\sqrt{3514}e^{34}$	$(\frac{14}{157}, -\frac{7}{157}, -\frac{14}{157}, \frac{49}{157}, -\frac{56}{157}, \frac{7}{157}, \frac{21}{157}, 0, \frac{35}{157})$ $+ \frac{1}{157}\sqrt{6734}e^4 \otimes e_8 + \frac{1}{157}\sqrt{7070}e^2 \otimes e_5$	{1356789, 3457}
9431:8	$0, 0, 0, 0, 0, \frac{3}{112}\sqrt{310}e^{12}, \frac{3}{224}\sqrt{1085}e^{16}, \frac{3}{224}\sqrt{6386}e^{13} + \frac{3}{224}\sqrt{1085}e^{26},$ $\frac{3}{112}\sqrt{155}e^{17} + \frac{3}{112}\sqrt{310}e^{34}$	$(-\frac{45}{448}, \frac{141}{448}, \frac{141}{224}, -\frac{69}{112}, \frac{33}{224}, \frac{3}{14}, \frac{51}{448}, \frac{237}{448}, \frac{3}{224})$ $+ \frac{3}{224}\sqrt{11842}e^3 \otimes e_4$	{1458, 148, 2457, 247}
9431:8	$0, 0, 0, 0, 0, \frac{456}{7421}\sqrt{17}e^{12}, \frac{57}{7421}\sqrt{2290}e^{16},$ $\frac{57}{7421}\sqrt{4298}e^{13} + \frac{114}{7421}\sqrt{431}e^{26}, \frac{57}{7421}\sqrt{1882}e^{17} + \frac{114}{7421}\sqrt{397}e^{34}$	$(-\frac{57}{7421}, \frac{1026}{7421}, \frac{2052}{7421}, -\frac{1197}{7421}, -\frac{3306}{7421}, \frac{969}{7421}, \frac{912}{7421}, \frac{1995}{7421}, \frac{855}{7421})$ $+ \frac{342}{7421}\sqrt{223}e^1 \otimes e_5 + \frac{57}{7421}\sqrt{5398}e^3 \otimes e_4$	{1237, 358}
9431:8	$0, 0, 0, 0, 0, \frac{4}{1031}\sqrt{10137}e^{12}, \frac{10}{1031}\sqrt{186}e^{16},$ $\frac{6}{1031}\sqrt{5115}e^{13} + \frac{12}{1031}\sqrt{1271}e^{26}, \frac{2}{1031}\sqrt{20274}e^{17} + \frac{4}{1031}\sqrt{10137}e^{34}$	$(-\frac{62}{1031}, \frac{103}{1031}, \frac{206}{1031}, -\frac{289}{1031}, \frac{147}{1031}, \frac{41}{1031}, -\frac{21}{1031}, \frac{144}{1031}, -\frac{83}{1031})$ $+ \frac{4}{1031}\sqrt{20553}e^2 \otimes e_9$	{1234578, 123478, 135689, 13689}
9431:8	$0, 0, 0, 0, 0, \frac{42}{989}\sqrt{55}e^{12}, \frac{21}{989}\sqrt{314}e^{16}, \frac{21}{989}\sqrt{890}e^{13} + \frac{42}{989}\sqrt{43}e^{26},$ $\frac{21}{989}\sqrt{110}e^{17} + \frac{42}{989}\sqrt{55}e^{34}$	$(-\frac{63}{989}, \frac{84}{989}, \frac{168}{989}, -\frac{273}{989}, \frac{546}{989}, \frac{21}{989}, -\frac{42}{989}, \frac{105}{989}, -\frac{105}{989})$ $+ \frac{21}{989}\sqrt{886}e^3 \otimes e_4 + \frac{42}{989}\sqrt{3}e^5 \otimes e_8$	{135, 2378}
9431:8	$0, 0, 0, 0, 0, \frac{9}{2009}\sqrt{1393}e^{12}, \frac{18}{2009}\sqrt{46}e^{16},$ $\frac{9}{2009}\sqrt{1635}e^{13} + \frac{54}{2009}\sqrt{42}e^{26}, \frac{9}{2009}\sqrt{541}e^{17} + \frac{18}{2009}\sqrt{426}e^{34}$	$(-\frac{27}{2009}, \frac{90}{2009}, \frac{180}{2009}, -\frac{171}{2009}, -\frac{36}{2009}, -\frac{287}{2009}, \frac{9}{2009}, \frac{36}{2009}, \frac{153}{2009}, \frac{9}{2009})$ $+ \frac{36}{2009}\sqrt{166}e^2 \otimes e_9 + \frac{9}{2009}\sqrt{933}e^4 \otimes e_5$	{123478, 135689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:8	$0, 0, 0, 0, 0, \frac{4}{2953}\sqrt{28006e^{12}}, \frac{134}{2953}\sqrt{95e^{16}},$ $\frac{6}{2953}\sqrt{82745e^{13}} + \frac{2}{2953}\sqrt{1146973e^{26}}, \frac{8}{2953}\sqrt{29279e^{17}} + \frac{152}{2953}\sqrt{201e^{34}}$	$(\frac{511}{2953}, -\frac{508}{2953}, -\frac{1016}{2953}, \frac{2041}{2953}, \frac{481}{2953}, \frac{3}{2953}, \frac{514}{2953}, -\frac{505}{2953}, \frac{1025}{2953})$ $+\frac{4}{2953}\sqrt{786714e^4} \otimes e_8$	{1258, 128, 24569, 2469}
9431:8	$0, 0, 0, 0, 0, \frac{9}{6629}\sqrt{3934e^{12}}, \frac{18}{6629}\sqrt{59e^{16}},$ $\frac{9}{6629}\sqrt{3606e^{13}} + \frac{90}{6629}\sqrt{57e^{26}}, \frac{18}{6629}\sqrt{337e^{17}} + \frac{18}{6629}\sqrt{1293e^{34}}$	$(-\frac{27}{6629}, -\frac{45}{6629}, -\frac{90}{6629}, -\frac{36}{6629}, \frac{99}{947}, -\frac{72}{6629}, -\frac{99}{6629}, -\frac{117}{6629}, -\frac{18}{947})$ $+\frac{9}{6629}\sqrt{3714e^4} \otimes e_8 + \frac{9}{6629}\sqrt{8158e^2} \otimes e_9$	{23456, 2346}
9431:8	$0, 0, 0, 0, 0, \frac{114}{5117}\sqrt{647e^{12}}, \frac{114}{5117}\sqrt{2e^{16}},$ $\frac{57}{5117}\sqrt{94e^{13}} + \frac{57}{5117}\sqrt{2506e^{26}}, \frac{57}{5117}\sqrt{638e^{17}} + \frac{228}{5117}\sqrt{41e^{34}}$	$(-\frac{114}{5117}, \frac{57}{301}, \frac{114}{301}, -\frac{1311}{5117}, -\frac{2280}{5117}, \frac{855}{5117}, \frac{741}{5117}, \frac{1824}{5117}, \frac{627}{5117})$ $+\frac{342}{5117}\sqrt{161e^2} \otimes e_5 + \frac{57}{5117}\sqrt{3202e^3} \otimes e_4$	{1356789, 2369}
9431:9	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{15e^{12}}, \frac{1}{27}\sqrt{210e^{16}}, \frac{2}{27}\sqrt{15e^{26}} + \frac{1}{9}\sqrt{5e^{34}},$ $\frac{1}{9}\sqrt{15e^{17}} + \frac{1}{27}\sqrt{30e^{23}}$	$(\frac{1}{9}, 0, \frac{1}{3}, -\frac{2}{9}, -\frac{4}{9}, \frac{2}{9}, \frac{2}{9}, \frac{1}{3})$ $+\frac{1}{27}\sqrt{465e^1} \otimes e_5 + \frac{4}{27}\sqrt{15e^3} \otimes e_4$	{2456789, 458}
9431:9	$0, 0, 0, 0, 0, \frac{5}{401}\sqrt{355e^{12}}, \frac{5}{401}\sqrt{930e^{16}}, \frac{10}{401}\sqrt{115e^{26}} + \frac{65}{401}\sqrt{5e^{34}},$ $\frac{5}{401}\sqrt{1195e^{17}} + \frac{5}{401}\sqrt{70e^{23}}$	$(-\frac{15}{401}, \frac{50}{401}, -\frac{45}{401}, \frac{130}{401}, -\frac{140}{401}, \frac{35}{401}, \frac{20}{401}, \frac{85}{401}, \frac{5}{401})$ $+\frac{20}{401}\sqrt{105e^4} \otimes e_9 + \frac{5}{401}\sqrt{1865e^1} \otimes e_5$	{12347, 458}
9431:9	$0, 0, 0, 0, 0, \frac{52}{1337}\sqrt{38e^{12}}, \frac{208}{1337}\sqrt{2e^{16}},$ $\frac{26}{1337}\sqrt{271e^{26}} + \frac{234}{1337}\sqrt{5e^{34}}, \frac{104}{1337}\sqrt{11e^{17}} + \frac{26}{1337}\sqrt{393e^{23}}$	$(-\frac{39}{1337}, \frac{143}{1337}, \frac{117}{1337}, \frac{52}{191}, -\frac{65}{191}, \frac{104}{1337}, \frac{65}{1337}, \frac{247}{1337}, \frac{26}{1337})$ $+\frac{104}{1337}\sqrt{41e^4} \otimes e_9 + \frac{52}{1337}\sqrt{142e^3} \otimes e_5$	{14578, 234}
9431:9	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{53e^{12}}, \frac{4}{101}\sqrt{159e^{16}}, \frac{2}{101}\sqrt{1007e^{26}} + \frac{2}{101}\sqrt{1537e^{34}},$ $\frac{4}{101}\sqrt{53e^{17}} + \frac{2}{101}\sqrt{1749e^{23}}$	$(\frac{13}{101}, \frac{7}{101}, \frac{39}{101}, -\frac{12}{101}, -\frac{67}{101}, \frac{20}{101}, \frac{33}{101}, \frac{27}{101}, \frac{46}{101})$ $+\frac{4}{101}\sqrt{1113e^3} \otimes e_5$	{12368, 13789, 259, 567}
9431:9	$0, 0, 0, 0, 0, \frac{14}{345}\sqrt{10e^{12}}, \frac{14}{345}\sqrt{5e^{16}}, \frac{7}{345}\sqrt{470e^{26}} + \frac{14}{345}\sqrt{115e^{34}},$ $\frac{14}{345}\sqrt{10e^{17}} + \frac{7}{69}\sqrt{10e^{23}}$	$(\frac{7}{69}, -\frac{7}{69}, \frac{7}{23}, -\frac{28}{69}, \frac{14}{23}, 0, \frac{7}{69}, -\frac{7}{69}, \frac{14}{69})$ $+\frac{7}{23}\sqrt{6e^3} \otimes e_4 + \frac{91}{345}\sqrt{10e^5} \otimes e_8$	{12489, 14678}
9431:9	$0, 0, 0, 0, 0, \frac{108}{2957}\sqrt{61e^{12}}, \frac{108}{2957}\sqrt{10e^{16}},$ $\frac{54}{2957}\sqrt{229e^{26}} + \frac{54}{2957}\sqrt{259e^{34}}, \frac{54}{2957}\sqrt{254e^{17}} + \frac{162}{2957}\sqrt{73e^{23}}$	$(-\frac{189}{2957}, \frac{513}{2957}, -\frac{567}{2957}, \frac{1404}{2957}, -\frac{945}{2957}, \frac{324}{2957}, \frac{135}{2957}, \frac{837}{2957}, -\frac{54}{2957})$ $+\frac{162}{2957}\sqrt{146e^4} \otimes e_9 + \frac{54}{2957}\sqrt{1294e^2} \otimes e_5$	{135689, 2679}
9431:9	$0, 0, 0, 0, 0, \frac{5}{43}\sqrt{31e^{12}}, \frac{1}{43}\sqrt{930e^{16}}, \frac{2}{43}\sqrt{31e^{26}} + \frac{1}{43}\sqrt{341e^{34}},$ $\frac{5}{43}\sqrt{31e^{17}} + \frac{1}{43}\sqrt{434e^{23}}$	$(\frac{3}{43}, \frac{4}{43}, \frac{9}{43}, \frac{2}{43}, -\frac{28}{43}, \frac{7}{43}, \frac{10}{43}, \frac{11}{43}, \frac{13}{43})$ $+\frac{1}{43}\sqrt{2201e^1} \otimes e_5$	{127, 169, 2356789, 358}
9431:9	$0, 0, 0, 0, 0, \frac{1}{824}\sqrt{117415e^{12}}, \frac{1}{824}\sqrt{140898e^{16}},$ $\frac{1}{412}\sqrt{26546e^{26}} + \frac{1}{824}\sqrt{647314e^{34}}, \frac{1}{824}\sqrt{117415e^{17}} + \frac{5}{824}\sqrt{6126e^{23}}$	$(-\frac{29}{824}, \frac{449}{1648}, -\frac{87}{824}, \frac{507}{824}, -\frac{257}{412}, \frac{391}{1648}, \frac{333}{1648}, \frac{105}{206}, \frac{275}{1648})$ $+\frac{1}{824}\sqrt{1366098e^4} \otimes e_5$	{1257, 1569, 2356789, 358}
9431:9	$0, 0, 0, 0, 0, \frac{1}{776}\sqrt{99395e^{12}}, \frac{1}{388}\sqrt{32810e^{16}},$ $\frac{1}{776}\sqrt{148610e^{26}} + \frac{1}{776}\sqrt{82990e^{34}}, \frac{1}{776}\sqrt{99395e^{17}} + \frac{3}{776}\sqrt{71410e^{23}}$	$(\frac{81}{388}, -\frac{155}{1552}, \frac{243}{388}, -\frac{479}{776}, \frac{127}{776}, \frac{169}{1552}, \frac{493}{1552}, \frac{7}{1552}, \frac{817}{1552})$ $+\frac{1}{776}\sqrt{1252570e^3} \otimes e_4$	{2459, 249, 4567, 467}
9431:9	$0, 0, 0, 0, 0, \frac{23}{1141}\sqrt{326e^{12}}, \frac{46}{1141}\sqrt{35e^{16}},$ $\frac{92}{1141}\sqrt{15e^{26}} + \frac{23}{1141}\sqrt{170e^{34}}, \frac{46}{1141}\sqrt{57e^{17}} + \frac{23}{1141}\sqrt{930e^{23}}$	$(\frac{69}{1141}, -\frac{92}{1141}, \frac{207}{1141}, -\frac{46}{163}, \frac{92}{163}, -\frac{23}{1141}, \frac{46}{1141}, -\frac{115}{1141}, \frac{115}{1141})$ $+\frac{23}{1141}\sqrt{994e^3} \otimes e_4 + \frac{46}{1141}\sqrt{277e^5} \otimes e_9$	{235, 3679}
9431:9	$0, 0, 0, 0, 0, \frac{252}{3217}\sqrt{85e^{12}}, \frac{36}{3217}\sqrt{782e^{16}},$ $\frac{18}{3217}\sqrt{17833e^{26}} + \frac{18}{3217}\sqrt{6851e^{34}}, \frac{36}{3217}\sqrt{1615e^{17}} + \frac{54}{3217}\sqrt{1241e^{23}}$	$(\frac{81}{3217}, \frac{531}{3217}, \frac{243}{3217}, \frac{900}{3217}, -\frac{2223}{3217}, \frac{612}{3217}, \frac{693}{3217}, \frac{1143}{3217}, \frac{774}{3217})$ $+\frac{1224}{3217}\sqrt{10e^2} \otimes e_5$	{12348, 13456789, 2469, 457}
9431:9	$0, 0, 0, 0, 0, \frac{28}{3321}\sqrt{2770e^{12}}, \frac{20}{1107}\sqrt{554e^{16}},$ $\frac{2}{3321}\sqrt{729895e^{26}} + \frac{28}{3321}\sqrt{1436245e^{34}}, \frac{8}{3321}\sqrt{85870e^{17}} + \frac{2}{3321}\sqrt{1020745e^{23}}$	$(-\frac{407}{3321}, \frac{245}{1107}, -\frac{407}{1107}, \frac{2284}{3321}, \frac{553}{3321}, \frac{8}{81}, -\frac{79}{3321}, \frac{1063}{3321}, -\frac{6}{41})$ $+\frac{8}{3321}\sqrt{239605e^4} \otimes e_9$	{14578, 1478, 234, 2345}
9431:9	$0, 0, 0, 0, 0, \frac{8}{165}\sqrt{85e^{12}}, \frac{4}{165}\sqrt{170e^{16}}, \frac{2}{165}\sqrt{4505e^{26}} + \frac{14}{165}\sqrt{85e^{34}},$ $\frac{8}{165}\sqrt{85e^{17}} + \frac{2}{33}\sqrt{119e^{23}}$	$(\frac{1}{33}, -\frac{1}{33}, \frac{1}{11}, -\frac{4}{33}, 1, 0, \frac{1}{33}, -\frac{1}{33}, \frac{2}{33})$ $+\frac{68}{165}\sqrt{10e^5} \otimes e_8$	{12389, 13678, 256, 579}
9431:9	$0, 0, 0, 0, 0, \frac{126}{8861}\sqrt{617e^{12}}, \frac{252}{8861}\sqrt{22e^{16}},$ $\frac{630}{8861}\sqrt{26e^{26}} + \frac{441}{8861}\sqrt{46e^{34}}, \frac{63}{8861}\sqrt{2210e^{17}} + \frac{189}{8861}\sqrt{634e^{23}}$	$(\frac{819}{8861}, \frac{63}{8861}, \frac{2457}{8861}, -\frac{1512}{8861}, -\frac{3906}{8861}, \frac{882}{8861}, \frac{1701}{8861}, \frac{945}{8861}, \frac{2520}{8861})$ $+\frac{126}{8861}\sqrt{2339e^2} \otimes e_5 + \frac{189}{8861}\sqrt{758e^3} \otimes e_4$	{2469, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:9	$0, 0, 0, 0, 0, \frac{12}{205}\sqrt{10}e^{12}, \frac{12}{205}\sqrt{5}e^{16}, \frac{6}{205}\sqrt{55}e^{26} + \frac{18}{205}\sqrt{35}e^{34},$ $\frac{6}{205}\sqrt{210}e^{17} + \frac{6}{41}e^{23}$	$(-\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{12}{41}, \frac{21}{41}, 0, -\frac{3}{41}, \frac{3}{41}, -\frac{6}{41})$ $+\frac{12}{41}\sqrt{5}e^4 \otimes e_9 + \frac{6}{205}\sqrt{410}e^5 \otimes e_8$	{12569, 36789}
9431:9	$0, 0, 0, 0, 0, \frac{2}{1071}\sqrt{41829}e^{26} + \frac{2}{1071}\sqrt{17763}e^{34}, \frac{2}{1071}\sqrt{167889}e^{17} + \frac{2}{357}\sqrt{21965}e^{23}$	$(-\frac{5}{119}, \frac{20}{357}, -\frac{15}{119}, \frac{10}{51}, 1, \frac{5}{357}, -\frac{10}{357}, \frac{25}{357}, -\frac{25}{357})$ $+\frac{4}{1071}\sqrt{127779}e^5 \otimes e_9$	{12689, 1578, 235, 3679}
9431:10	$0, 0, 0, 0, 0, \frac{19}{2393}\sqrt{410}e^{12}, \frac{38}{2393}\sqrt{167}e^{16}, \frac{38}{2393}\sqrt{465}e^{13} + \frac{437}{2393}e^{26},$ $\frac{133}{2393}\sqrt{5}e^{17} + \frac{19}{2393}\sqrt{1677}e^{45}$	$(-\frac{76}{2393}, \frac{133}{2393}, \frac{266}{2393}, \frac{551}{2393}, -\frac{646}{2393}, \frac{57}{2393}, -\frac{19}{2393}, \frac{190}{2393}, -\frac{95}{2393})$ $+\frac{57}{2393}\sqrt{223}e^3 \otimes e_9 + \frac{57}{2393}\sqrt{266}e^4 \otimes e_8$	{1345, 2378}
9431:10	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{7429}e^{12}, \frac{2}{203}\sqrt{1615}e^{16}, \frac{1}{203}\sqrt{969}e^{13} + \frac{2}{203}\sqrt{1615}e^{26},$ $\frac{1}{203}\sqrt{3553}e^{17} + \frac{2}{203}\sqrt{1938}e^{45}$	$(\frac{13}{203}, \frac{20}{203}, \frac{40}{203}, \frac{191}{203}, -\frac{132}{203}, \frac{33}{203}, \frac{46}{203}, \frac{53}{203}, \frac{59}{203})$ $+\frac{323}{203}e^4 \otimes e_5$	{14689, 15689, 24679, 25679}
9431:10	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{95}e^{12}, \frac{1}{31}\sqrt{38}e^{16}, \frac{1}{31}\sqrt{285}e^{13} + \frac{1}{31}\sqrt{38}e^{26},$ $\frac{1}{31}\sqrt{133}e^{17} + \frac{2}{31}\sqrt{57}e^{45}$	$(-\frac{4}{31}, \frac{7}{31}, \frac{14}{31}, \frac{7}{31}, -\frac{12}{31}, \frac{3}{31}, -\frac{1}{31}, \frac{10}{31}, -\frac{5}{31})$ $-\frac{19}{31}e^4 \otimes e_5 + \frac{6}{31}\sqrt{19}e^3 \otimes e_9$	{1489, 1589, 2479, 2579}
9431:10	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{95}e^{12}, \frac{1}{31}\sqrt{38}e^{16}, \frac{1}{31}\sqrt{285}e^{13} + \frac{1}{31}\sqrt{38}e^{26},$ $\frac{1}{31}\sqrt{133}e^{17} + \frac{2}{31}\sqrt{57}e^{45}$	$(-\frac{4}{31}, \frac{7}{31}, \frac{14}{31}, \frac{7}{31}, -\frac{12}{31}, \frac{3}{31}, -\frac{1}{31}, \frac{10}{31}, -\frac{5}{31})$ $+\frac{19}{31}e^4 \otimes e_5 + \frac{6}{31}\sqrt{19}e^3 \otimes e_9$	{1489, 1589, 2479, 2579}
9431:10	$0, 0, 0, 0, 0, \frac{27}{2081}\sqrt{1213}e^{12}, \frac{108}{2081}e^{16}, \frac{135}{2081}\sqrt{39}e^{13} + \frac{54}{2081}\sqrt{366}e^{26},$ $\frac{27}{2081}\sqrt{769}e^{17} + \frac{54}{2081}\sqrt{222}e^{45}$	$(-\frac{243}{2081}, \frac{378}{2081}, \frac{756}{2081}, \frac{189}{2081}, -\frac{540}{2081}, \frac{135}{2081}, -\frac{108}{2081}, \frac{513}{2081}, -\frac{351}{2081})$ $+\frac{108}{2081}\sqrt{181}e^2 \otimes e_9 + \frac{729}{2081}e^4 \otimes e_5$	{134689, 135689}
9431:10	$0, 0, 0, 0, 0, \frac{248}{1861}\sqrt{11}e^{12}, \frac{341}{1861}\sqrt{6}e^{16},$ $\frac{124}{1861}\sqrt{11}e^{13} + \frac{31}{1861}\sqrt{418}e^{26}, \frac{682}{1861}e^{17} + \frac{62}{1861}\sqrt{110}e^{45}$	$(\frac{341}{1861}, -\frac{310}{1861}, -\frac{620}{1861}, \frac{682}{1861}, \frac{31}{1861}, \frac{31}{1861}, \frac{372}{1861}, -\frac{279}{1861}, \frac{713}{1861})$ $+\frac{31}{1861}\sqrt{1302}e^4 \otimes e_8 + \frac{31}{1861}\sqrt{1918}e^1 \otimes e_3$	{234679, 345}
9431:10	$0, 0, 0, 0, 0, \frac{62}{3281}\sqrt{1079}e^{13} + \frac{124}{3281}\sqrt{10}e^{26}, \frac{62}{3281}\sqrt{1177}e^{17} + \frac{124}{3281}\sqrt{58}e^{45}$	$(\frac{682}{3281}, -\frac{620}{3281}, -\frac{1240}{3281}, \frac{713}{3281}, \frac{713}{3281}, \frac{62}{3281}, \frac{744}{3281}, -\frac{558}{3281}, \frac{1426}{3281})$ $+\frac{1240}{3281}\sqrt{7}e^1 \otimes e_3$	{2345679, 23679, 34}
9431:10	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{95}e^{12}, \frac{2}{43}\sqrt{38}e^{16}, \frac{2}{43}\sqrt{285}e^{13} + \frac{2}{43}\sqrt{38}e^{26},$ $\frac{2}{43}\sqrt{133}e^{17} + \frac{4}{43}\sqrt{57}e^{45}$	$(-\frac{8}{43}, \frac{14}{43}, \frac{28}{43}, -\frac{5}{43}, -\frac{5}{43}, \frac{6}{43}, -\frac{2}{43}, \frac{20}{43}, -\frac{10}{43})$ $+\frac{12}{43}\sqrt{19}e^3 \otimes e_9$	{1489, 2479}
9431:10	$0, 0, 0, 0, 0, \frac{54}{7229}\sqrt{697}e^{12}, \frac{54}{7229}\sqrt{311}e^{16},$ $\frac{27}{7229}\sqrt{30}e^{13} + \frac{54}{7229}\sqrt{1311}e^{26}, \frac{27}{7229}\sqrt{454}e^{17} + \frac{54}{7229}\sqrt{1167}e^{45}$	$(-\frac{243}{7229}, \frac{378}{7229}, \frac{756}{7229}, \frac{1242}{7229}, -\frac{1593}{7229}, \frac{135}{7229}, -\frac{108}{7229}, \frac{513}{7229}, -\frac{351}{7229})$ $+\frac{243}{7229}\sqrt{70}e^4 \otimes e_8 + \frac{27}{7229}\sqrt{7306}e^2 \otimes e_9$	{23456, 3479}
9431:10	$0, 0, 0, 0, 0, \frac{2}{3253}\sqrt{18479}e^{12}, \frac{2}{3253}\sqrt{572849}e^{16},$ $\frac{2}{3253}\sqrt{1307661}e^{13} + \frac{2}{3253}\sqrt{933733}e^{26}, \frac{2}{3253}\sqrt{729377}e^{17} + \frac{4}{3253}\sqrt{355449}e^{45}$	$(\frac{493}{3253}, -\frac{361}{3253}, -\frac{722}{3253}, \frac{1945}{3253}, -\frac{827}{3253}, \frac{132}{3253}, \frac{625}{3253}, -\frac{229}{3253}, \frac{1118}{3253})$ $+\frac{12}{3253}\sqrt{83699}e^4 \otimes e_8$	{1234679, 1345, 2378, 35689}
9431:10	$0, 0, 0, 0, 0, \frac{31}{2121}\sqrt{1061}e^{12}, \frac{124}{2121}\sqrt{10}e^{16},$ $\frac{31}{2121}\sqrt{1079}e^{13} + \frac{62}{2121}\sqrt{10}e^{26}, \frac{31}{2121}\sqrt{1177}e^{17} + \frac{62}{2121}\sqrt{58}e^{45}$	$(\frac{341}{2121}, -\frac{310}{2121}, -\frac{620}{2121}, \frac{279}{707}, -\frac{124}{2121}, \frac{31}{2121}, \frac{124}{707}, -\frac{93}{707}, \frac{713}{2121})$ $+\frac{620}{2121}\sqrt{7}e^1 \otimes e_3 + \frac{961}{2121}e^4 \otimes e_5$	{34, 35}
9431:10	$0, 0, 0, 0, 0, \frac{54}{3433}\sqrt{1213}e^{12}, \frac{216}{3433}e^{16}, \frac{270}{3433}\sqrt{39}e^{13} + \frac{108}{3433}\sqrt{366}e^{26},$ $\frac{54}{3433}\sqrt{769}e^{17} + \frac{108}{3433}\sqrt{222}e^{45}$	$(-\frac{486}{3433}, \frac{756}{3433}, \frac{1512}{3433}, -\frac{351}{3433}, -\frac{351}{3433}, \frac{270}{3433}, -\frac{216}{3433}, \frac{1026}{3433}, -\frac{702}{3433})$ $+\frac{216}{3433}\sqrt{181}e^2 \otimes e_9$	{1234578, 12378, 134689}
9431:11	$0, 0, 0, 0, 0, \frac{8}{175}\sqrt{30}e^{12}, \frac{8}{175}\sqrt{15}e^{16}, \frac{8}{175}\sqrt{110}e^{26} + \frac{8}{175}\sqrt{255}e^{34},$ $\frac{8}{175}\sqrt{30}e^{17} + \frac{8}{35}\sqrt{11}e^{25}$	$(\frac{8}{35}, -\frac{8}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{24}{35}, 0, \frac{8}{35}, -\frac{8}{35}, \frac{16}{35})$ $+\frac{96}{175}\sqrt{5}e^5 \otimes e_8$	{123456, 1256, 134579, 1579, 2389, 3678}
9431:11	$0, 0, 0, 0, 0, \frac{8}{175}\sqrt{30}e^{12}, \frac{8}{175}\sqrt{15}e^{16}, \frac{8}{175}\sqrt{110}e^{26} + \frac{8}{175}\sqrt{255}e^{34},$ $\frac{8}{175}\sqrt{30}e^{17} + \frac{8}{35}\sqrt{11}e^{25}$	$(\frac{8}{35}, -\frac{8}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{24}{35}, 0, \frac{8}{35}, -\frac{8}{35}, \frac{16}{35})$ $-\frac{96}{175}\sqrt{5}e^5 \otimes e_8$	{123456, 1256, 134579, 1579, 2389, 3678}
9431:11	$0, 0, 0, 0, 0, \frac{24}{1505}\sqrt{1362}e^{12}, \frac{24}{1505}\sqrt{393}e^{16},$ $\frac{24}{1505}\sqrt{1614}e^{26} + \frac{24}{1505}\sqrt{393}e^{34}, \frac{24}{1505}\sqrt{30}e^{17} + \frac{72}{1505}\sqrt{93}e^{25}$	$(-\frac{24}{215}, \frac{72}{301}, \frac{708}{1505}, -\frac{156}{1505}, -\frac{72}{215}, \frac{192}{1505}, \frac{24}{1505}, \frac{552}{1505}, -\frac{144}{1505})$ $+\frac{864}{1505}e^3 \otimes e_4 + \frac{96}{1505}\sqrt{174}e^2 \otimes e_5$	{357, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:11	$0, 0, 0, 0, 0, \frac{4}{255}\sqrt{170}e^{12}, \frac{4}{255}\sqrt{85}e^{16}, \frac{4}{85}\sqrt{15}e^{26} + \frac{4}{255}\sqrt{470}e^{34},$ $\frac{4}{255}\sqrt{155}e^{17} + \frac{4}{51}\sqrt{19}e^{25}$	$(\frac{2}{51}, -\frac{2}{51}, \frac{4}{17}, -\frac{14}{51}, \frac{2}{17}, 0, \frac{2}{51}, -\frac{2}{51}, \frac{4}{51})$ $+ \frac{4}{255}\sqrt{505}e^5 \otimes e_8 + \frac{4}{51}\sqrt{26}e^3 \otimes e_9$	{124689, 1378, 2345, 5679}
9431:11	$0, 0, 0, 0, 0, \frac{4}{255}\sqrt{170}e^{12}, \frac{4}{255}\sqrt{85}e^{16}, \frac{4}{85}\sqrt{15}e^{26} + \frac{4}{255}\sqrt{470}e^{34},$ $\frac{4}{255}\sqrt{155}e^{17} + \frac{4}{51}\sqrt{19}e^{25}$	$(\frac{2}{51}, -\frac{2}{51}, \frac{4}{17}, -\frac{14}{51}, \frac{2}{17}, 0, \frac{2}{51}, -\frac{2}{51}, \frac{4}{51})$ $- \frac{4}{255}\sqrt{505}e^5 \otimes e_8 + \frac{4}{51}\sqrt{26}e^3 \otimes e_9$	{124689, 1378, 2345, 5679}
9431:11	$0, 0, 0, 0, 0, \frac{8}{141}\sqrt{42}e^{12}, \frac{8}{47}\sqrt{7}e^{16}, \frac{8}{141}\sqrt{14}e^{26} + \frac{8}{47}\sqrt{7}e^{34},$ $\frac{8}{141}\sqrt{42}e^{17} + \frac{8}{141}\sqrt{35}e^{25}$	$(\frac{8}{141}, \frac{16}{141}, \frac{44}{47}, -\frac{92}{141}, \frac{8}{47}, \frac{8}{47}, \frac{32}{141}, \frac{40}{141}, \frac{40}{141})$ $+ \frac{224}{141}e^3 \otimes e_4$	{123578, 124578, 135689, 145689}
9431:11	$0, 0, 0, 0, 0, \frac{24}{1073}\sqrt{1362}e^{12}, \frac{24}{1073}\sqrt{393}e^{16},$ $\frac{24}{1073}\sqrt{1614}e^{26} + \frac{24}{1073}\sqrt{393}e^{34}, \frac{24}{1073}\sqrt{30}e^{17} + \frac{72}{1073}\sqrt{93}e^{25}$	$(-\frac{168}{1073}, \frac{360}{1073}, \frac{276}{1073}, \frac{276}{1073}, -\frac{504}{1073}, \frac{192}{1073}, \frac{24}{1073}, \frac{552}{1073}, -\frac{144}{1073})$ $+ \frac{96}{1073}\sqrt{174}e^2 \otimes e_5$	{12348, 128, 357}
9431:11	$0, 0, 0, 0, 0, \frac{8}{3467}\sqrt{38190}e^{12}, \frac{8}{3467}\sqrt{32629}e^{16},$ $\frac{8}{3467}\sqrt{61774}e^{26} + \frac{8}{3467}\sqrt{98021}e^{34}, \frac{8}{3467}\sqrt{59898}e^{17} + \frac{8}{3467}\sqrt{90785}e^{25}$	$(-\frac{272}{3467}, \frac{676}{3467}, \frac{2004}{3467}, -\frac{924}{3467}, -\frac{816}{3467}, \frac{404}{3467}, \frac{132}{3467}, \frac{1080}{3467}, -\frac{140}{3467})$ $+ \frac{32}{3467}\sqrt{12261}e^3 \otimes e_9$	{124689, 1378, 2345, 5679}
9431:11	$0, 0, 0, 0, 0, \frac{8}{255}\sqrt{30}e^{12}, \frac{8}{255}\sqrt{15}e^{16}, \frac{8}{255}\sqrt{110}e^{26} + \frac{8}{255}\sqrt{255}e^{34},$ $\frac{8}{255}\sqrt{30}e^{17} + \frac{8}{51}\sqrt{11}e^{25}$	$(\frac{8}{51}, -\frac{8}{51}, \frac{4}{17}, -\frac{20}{51}, \frac{8}{17}, 0, \frac{8}{51}, -\frac{8}{51}, \frac{16}{51})$ $+ \frac{32}{51}e^3 \otimes e_4 + \frac{32}{85}\sqrt{5}e^5 \otimes e_8$	{2389, 2489, 3678, 4678}
9431:11	$0, 0, 0, 0, 0, \frac{8}{255}\sqrt{30}e^{12}, \frac{8}{255}\sqrt{15}e^{16}, \frac{8}{255}\sqrt{110}e^{26} + \frac{8}{255}\sqrt{255}e^{34},$ $\frac{8}{255}\sqrt{30}e^{17} + \frac{8}{51}\sqrt{11}e^{25}$	$(\frac{8}{51}, -\frac{8}{51}, \frac{4}{17}, -\frac{20}{51}, \frac{8}{17}, 0, \frac{8}{51}, -\frac{8}{51}, \frac{16}{51})$ $+ \frac{32}{51}e^3 \otimes e_4 - \frac{32}{85}\sqrt{5}e^5 \otimes e_8$	{2389, 2489, 3678, 4678}
9431:11	$0, 0, 0, 0, 0, \frac{36}{1147}\sqrt{22}e^{26} + \frac{36}{1147}\sqrt{281}e^{34}, \frac{504}{1147}e^{17} + \frac{108}{1147}\sqrt{23}e^{25}$	$(-\frac{126}{1147}, \frac{270}{1147}, \frac{540}{1147}, -\frac{126}{1147}, -\frac{378}{1147}, \frac{144}{1147}, \frac{18}{1147}, \frac{414}{1147}, -\frac{108}{1147})$ $+ \frac{108}{1147}\sqrt{74}e^3 \otimes e_9 + \frac{36}{1147}\sqrt{326}e^2 \otimes e_5$	{1569, 246789}
9431:12	$0, 0, 0, 0, 0, \frac{43}{1537}\sqrt{409}e^{12}, \frac{258}{1537}\sqrt{6}e^{16},$ $\frac{43}{1537}\sqrt{411}e^{13} + \frac{86}{1537}\sqrt{82}e^{26} + \frac{172}{1537}\sqrt{14}e^{45}, \frac{43}{1537}\sqrt{251}e^{17} + \frac{86}{1537}\sqrt{330}e^{34}$	$(\frac{301}{1537}, -\frac{86}{1537}, -\frac{172}{1537}, \frac{989}{1537}, -\frac{860}{1537}, \frac{215}{1537}, \frac{516}{1537}, \frac{129}{1537}, \frac{817}{1537})$ $+ \frac{43}{1537}\sqrt{2509}e^4 \otimes e_5$	{23467, 359}
9431:12	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{255}e^{13} + \frac{2}{47}\sqrt{17}e^{26} + \frac{2}{47}\sqrt{34}e^{12}, \frac{4}{47}\sqrt{34}e^{16},$ $\frac{2}{47}\sqrt{255}e^{13} + \frac{2}{47}\sqrt{17}e^{26} + \frac{6}{47}\sqrt{34}e^{45}, \frac{34}{47}e^{17} + \frac{6}{47}\sqrt{17}e^{34}$	$(-\frac{4}{47}, \frac{7}{47}, \frac{14}{47}, -\frac{19}{47}, \frac{29}{47}, \frac{3}{47}, -\frac{1}{47}, \frac{10}{47}, -\frac{5}{47})$ $+ \frac{2}{47}\sqrt{663}e^5 \otimes e_9$	{246789, 58}
9431:12	$0, 0, 0, 0, 0, \frac{15}{1577}\sqrt{1327}e^{12}, \frac{15}{1577}\sqrt{61}e^{16},$ $\frac{15}{1577}\sqrt{1419}e^{13} + \frac{45}{1577}\sqrt{183}e^{26} + \frac{15}{1577}\sqrt{429}e^{45}, \frac{60}{1577}\sqrt{37}e^{17} + \frac{105}{1577}\sqrt{30}e^{34}$	$(-\frac{75}{1577}, \frac{90}{1577}, \frac{180}{1577}, -\frac{315}{1577}, \frac{420}{1577}, \frac{15}{1577}, -\frac{60}{1577}, \frac{105}{1577}, -\frac{135}{1577})$ $+ \frac{15}{1577}\sqrt{2743}e^2 \otimes e_9$	{1234578, 13689}
9431:13	$0, 0, 0, 0, 0, \frac{114}{4973}\sqrt{179}e^{12}, \frac{57}{4973}\sqrt{446}e^{16},$ $\frac{57}{4973}\sqrt{1038}e^{13} + \frac{114}{4973}\sqrt{353}e^{26}, \frac{114}{4973}\sqrt{366}e^{17} + \frac{57}{4973}\sqrt{758}e^{23}$	$(-\frac{114}{4973}, -\frac{171}{4973}, -\frac{342}{4973}, \frac{2793}{4973}, \frac{2736}{4973}, -\frac{285}{4973}, -\frac{399}{4973}, \frac{456}{4973}, -\frac{513}{4973})$ $+ \frac{114}{4973}\sqrt{1090}e^5 \otimes e_9 + \frac{57}{4973}\sqrt{4474}e^4 \otimes e_8$	{1234567, 1349}
9431:13	$0, 0, 0, 0, 0, \frac{52}{3195}\sqrt{6}e^{12}, \frac{52}{3195}\sqrt{154}e^{16},$ $\frac{104}{3195}\sqrt{166}e^{13} + \frac{52}{3195}\sqrt{537}e^{26}, \frac{52}{3195}\sqrt{307}e^{17} + \frac{52}{3195}\sqrt{843}e^{23}$	$(\frac{52}{3195}, \frac{26}{1065}, \frac{52}{1065}, \frac{1586}{3195}, -\frac{1274}{3195}, \frac{26}{639}, \frac{182}{3195}, \frac{208}{3195}, \frac{26}{355})$ $+ \frac{52}{1065}\sqrt{139}e^4 \otimes e_9 + \frac{52}{3195}\sqrt{1609}e^2 \otimes e_5$	{123478, 135689}
9431:13	$0, 0, 0, 0, 0, \frac{5}{581}\sqrt{3270}e^{12}, \frac{5}{581}\sqrt{1686}e^{16}, \frac{5}{581}\sqrt{546}e^{13} + \frac{5}{83}\sqrt{30}e^{26},$ $\frac{10}{581}\sqrt{258}e^{17} + \frac{45}{581}\sqrt{2}e^{23}$	$(\frac{30}{581}, \frac{45}{581}, \frac{90}{581}, -\frac{195}{581}, -\frac{180}{581}, \frac{75}{581}, \frac{15}{581}, \frac{120}{581}, \frac{135}{581})$ $+ \frac{10}{581}\sqrt{1119}e^2 \otimes e_5 + \frac{5}{581}\sqrt{4746}e^1 \otimes e_4$	{12378, 135689}
9431:13	$0, 0, 0, 0, 0, \frac{153}{6269}\sqrt{130}e^{12}, \frac{51}{6269}\sqrt{2814}e^{16},$ $\frac{51}{6269}\sqrt{130}e^{13} + \frac{51}{6269}\sqrt{734}e^{26}, \frac{408}{6269}\sqrt{55}e^{17} + \frac{51}{6269}\sqrt{678}e^{23}$	$(\frac{102}{6269}, \frac{153}{6269}, \frac{306}{6269}, \frac{3060}{6269}, -\frac{2499}{6269}, \frac{255}{6269}, \frac{357}{6269}, \frac{408}{6269}, \frac{459}{6269})$ $+ \frac{510}{6269}\sqrt{47}e^4 \otimes e_9 + \frac{51}{6269}\sqrt{6418}e^1 \otimes e_5$	{12347, 1369}
9431:13	$0, 0, 0, 0, 0, \frac{102}{6053}\sqrt{609}e^{12}, \frac{51}{6053}\sqrt{1086}e^{16},$ $\frac{51}{6053}\sqrt{246}e^{13} + \frac{102}{6053}\sqrt{1051}e^{26}, \frac{204}{6053}\sqrt{38}e^{17} + \frac{51}{6053}\sqrt{334}e^{23}$	$(\frac{102}{6053}, \frac{153}{6053}, \frac{306}{6053}, \frac{3009}{6053}, -\frac{2448}{6053}, \frac{255}{6053}, \frac{357}{6053}, \frac{408}{6053}, \frac{459}{6053})$ $+ \frac{102}{6053}\sqrt{1522}e^2 \otimes e_5 + \frac{51}{6053}\sqrt{4826}e^4 \otimes e_8$	{2469, 457}
9431:13	$0, 0, 0, 0, 0, \frac{3}{167}\sqrt{445}e^{12}, \frac{3}{167}\sqrt{534}e^{16}, \frac{1}{167}\sqrt{267}e^{13} + \frac{1}{167}\sqrt{3738}e^{26},$ $\frac{3}{167}\sqrt{445}e^{17} + \frac{2}{167}\sqrt{534}e^{23}$	$(\frac{10}{167}, \frac{15}{167}, \frac{30}{167}, 1, -\frac{100}{167}, \frac{25}{167}, \frac{35}{167}, \frac{40}{167}, \frac{45}{167})$ $+ \frac{267}{167}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:13	$0, 0, 0, 0, 0, \frac{10}{123}\sqrt{22}e^{12}, \frac{2}{123}\sqrt{110}e^{16}, \frac{1}{123}\sqrt{1870}e^{13} + \frac{1}{123}\sqrt{2090}e^{26},$ $\frac{1}{123}\sqrt{770}e^{17} + \frac{2}{123}\sqrt{1265}e^{23}$	$(\frac{2}{123}, \frac{1}{41}, \frac{2}{41}, \frac{64}{123}, -\frac{49}{123}, \frac{5}{123}, \frac{7}{123}, \frac{8}{123}, \frac{3}{41})$ $+ \frac{1}{123}\sqrt{6490}e^3 \otimes e_5 + \frac{2}{41}\sqrt{165}e^4 \otimes e_9$	{125689, 14578}
9431:13	$0, 0, 0, 0, 0, \frac{25}{1484}\sqrt{417}e^{12}, \frac{25}{1484}\sqrt{274}e^{16},$ $\frac{25}{1484}\sqrt{678}e^{13} + \frac{25}{371}\sqrt{21}e^{26}, \frac{25}{1484}\sqrt{417}e^{17} + \frac{25}{1484}\sqrt{510}e^{23}$	$(\frac{25}{1484}, \frac{75}{2968}, \frac{75}{1484}, \frac{725}{1484}, -\frac{150}{371}, \frac{125}{2968}, \frac{25}{424}, \frac{25}{371}, \frac{225}{2968})$ $+ \frac{25}{1484}\sqrt{1518}e^1 \otimes e_5 + \frac{25}{742}\sqrt{283}e^4 \otimes e_8$	{1278, 1689}
9431:13	$0, 0, 0, 0, 0, \frac{16}{141}\sqrt{5}e^{12}, \frac{8}{141}\sqrt{46}e^{16}, \frac{8}{141}\sqrt{70}e^{13} + \frac{16}{47}e^{26},$ $\frac{16}{141}\sqrt{5}e^{17} + \frac{8}{141}\sqrt{22}e^{23}$	$(\frac{8}{141}, \frac{4}{47}, \frac{8}{47}, -\frac{56}{141}, -\frac{40}{141}, \frac{20}{141}, \frac{28}{141}, \frac{32}{141}, \frac{12}{47})$ $+ \frac{8}{141}\sqrt{110}e^3 \otimes e_5 + \frac{8}{141}\sqrt{142}e^1 \otimes e_4$	{1237, 1369}
9431:13	$0, 0, 0, 0, 0, \frac{20}{2669}\sqrt{4015}e^{12}, \frac{10}{2669}\sqrt{17490}e^{16},$ $\frac{10}{2669}\sqrt{21395}e^{13} + \frac{20}{2669}\sqrt{1705}e^{26}, \frac{10}{2669}\sqrt{45210}e^{17} + \frac{20}{2669}\sqrt{12155}e^{23}$	$(-\frac{18}{2669}, -\frac{27}{2669}, -\frac{54}{2669}, \frac{1}{2669}, \frac{441}{2669}, -\frac{45}{2669}, -\frac{63}{2669}, -\frac{72}{2669}, -\frac{81}{2669})$ $+ \frac{20}{2669}\sqrt{30635}e^4 \otimes e_9$	{234, 2345, 35679, 3679}
9431:13	$0, 0, 0, 0, 0, \frac{1}{643}\sqrt{3954}e^{12}, \frac{1}{643}\sqrt{148934}e^{16},$ $\frac{1}{643}\sqrt{288642}e^{13} + \frac{12}{643}\sqrt{1977}e^{26}, \frac{1}{643}\sqrt{3954}e^{17} + \frac{1}{643}\sqrt{146298}e^{23}$	$(-\frac{4}{643}, -\frac{6}{643}, -\frac{12}{643}, \frac{1}{643}, \frac{96}{643}, -\frac{10}{643}, -\frac{14}{643}, -\frac{16}{643}, -\frac{18}{643})$ $+ \frac{1}{643}\sqrt{720946}e^4 \otimes e_8$	{12345679, 1234679, 134, 1345}
9431:13	$0, 0, 0, 0, 0, \frac{11}{624}\sqrt{985}e^{12}, \frac{55}{312}e^{16}, \frac{11}{624}\sqrt{2410}e^{13} + \frac{11}{39}\sqrt{5}e^{26},$ $\frac{11}{624}\sqrt{985}e^{17} + \frac{11}{312}\sqrt{590}e^{23}$	$(\frac{49}{624}, \frac{49}{416}, \frac{49}{208}, -\frac{229}{624}, \frac{83}{1248}, \frac{245}{1248}, \frac{343}{156}, \frac{49}{156}, \frac{147}{416})$ $+ \frac{11}{624}\sqrt{5410}e^3 \otimes e_4$	{12456789, 1246789, 1458, 148}
9431:13	$0, 0, 0, 0, 0, \frac{98}{4973}\sqrt{319}e^{12}, \frac{98}{4973}\sqrt{30}e^{16},$ $\frac{49}{4973}\sqrt{434}e^{13} + \frac{49}{4973}\sqrt{922}e^{26}, \frac{49}{4973}\sqrt{1182}e^{17} + \frac{196}{4973}\sqrt{177}e^{23}$	$(\frac{294}{4973}, \frac{441}{4973}, \frac{882}{4973}, -\frac{1960}{4973}, -\frac{1519}{4973}, \frac{735}{4973}, \frac{1029}{4973}, \frac{1176}{4973}, \frac{1323}{4973})$ $+ \frac{49}{4973}\sqrt{4034}e^3 \otimes e_5 + \frac{98}{4973}\sqrt{1229}e^2 \otimes e_4$	{2569, 457}
9431:13	$0, 0, 0, 0, 0, \frac{2}{387}\sqrt{116930}e^{12}, \frac{2}{903}\sqrt{48898}e^{16},$ $\frac{2}{387}\sqrt{13819}e^{13} + \frac{4}{2709}\sqrt{245553}e^{26}, \frac{4}{2709}\sqrt{40394}e^{17} + \frac{8}{2709}\sqrt{35079}e^{23}$	$(\frac{178}{2709}, \frac{89}{903}, \frac{178}{903}, -\frac{1859}{2709}, \frac{425}{2709}, \frac{445}{2709}, \frac{89}{387}, \frac{712}{2709}, \frac{89}{301})$ $+ \frac{4}{2709}\sqrt{606973}e^2 \otimes e_4$	{23567, 2367, 3459, 349}
9431:13	$0, 0, 0, 0, 0, \frac{1}{696}\sqrt{180695}e^{12}, \frac{1}{696}\sqrt{216834}e^{16},$ $\frac{1}{696}\sqrt{86530}e^{13} + \frac{1}{348}\sqrt{7126}e^{26}, \frac{1}{696}\sqrt{180695}e^{17} + \frac{1}{232}\sqrt{11198}e^{23}$	$(\frac{43}{696}, \frac{43}{464}, \frac{43}{232}, -\frac{233}{348}, \frac{115}{696}, \frac{215}{1392}, \frac{301}{174}, \frac{43}{174}, \frac{129}{464})$ $+ \frac{1}{696}\sqrt{591458}e^1 \otimes e_4$	{23456789, 2346789, 3458, 348}
9431:13	$0, 0, 0, 0, 0, \frac{189}{1604}\sqrt{7}e^{12}, \frac{189}{802}\sqrt{2}e^{16}, \frac{27}{1604}\sqrt{1262}e^{13} + \frac{27}{802}\sqrt{38}e^{26},$ $\frac{189}{1604}\sqrt{7}e^{17} + \frac{27}{802}\sqrt{87}e^{23}$	$(\frac{27}{1604}, \frac{81}{3208}, \frac{81}{1604}, \frac{837}{1604}, -\frac{162}{401}, \frac{135}{3208}, \frac{189}{3208}, \frac{27}{401}, \frac{243}{3208})$ $+ \frac{27}{1604}\sqrt{1534}e^3 \otimes e_5 + \frac{27}{802}\sqrt{359}e^4 \otimes e_8$	{2378, 3689}
9431:14	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{14}\sqrt{14}e^{16}, \frac{1}{28}\sqrt{210}e^{13} + \frac{1}{42}\sqrt{42}e^{26},$ $\frac{1}{12}\sqrt{15}e^{17} + \frac{1}{14}\sqrt{35}e^{24}$	$(\frac{1}{12}, -\frac{1}{24}, -\frac{1}{12}, \frac{1}{4}, -\frac{1}{3}, \frac{1}{24}, \frac{1}{8}, 0, \frac{5}{24})$ $+ \frac{1}{28}\sqrt{154}e^3 \otimes e_5 - \frac{1}{42}\sqrt{483}e^4 \otimes e_8$	{1256789, 158, 2457, 4569}
9431:14	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{14}\sqrt{14}e^{16}, \frac{1}{28}\sqrt{210}e^{13} + \frac{1}{42}\sqrt{42}e^{26},$ $\frac{1}{12}\sqrt{15}e^{17} + \frac{1}{14}\sqrt{35}e^{24}$	$(\frac{1}{12}, -\frac{1}{24}, -\frac{1}{12}, \frac{1}{4}, -\frac{1}{3}, \frac{1}{24}, \frac{1}{8}, 0, \frac{5}{24})$ $+ \frac{1}{28}\sqrt{154}e^3 \otimes e_5 + \frac{1}{42}\sqrt{483}e^4 \otimes e_8$	{1256789, 158, 2457, 4569}
9431:14	$0, 0, 0, 0, 0, \frac{6}{577}\sqrt{626}e^{12}, \frac{2}{577}\sqrt{25979}e^{16},$ $\frac{2}{577}\sqrt{55401}e^{13} + \frac{2}{577}\sqrt{51645}e^{26}, \frac{6}{577}\sqrt{626}e^{17} + \frac{4}{577}\sqrt{939}e^{24}$	$(\frac{35}{577}, -\frac{42}{577}, -\frac{84}{577}, \frac{105}{577}, 1, -\frac{7}{577}, \frac{28}{577}, -\frac{49}{577}, \frac{63}{577})$ $+ \frac{44}{577}\sqrt{313}e^5 \otimes e_8$	{12345679, 1345, 2378, 3689}
9431:14	$0, 0, 0, 0, 0, \frac{3}{584}\sqrt{14645}e^{12}, \frac{9}{292}\sqrt{406}e^{16},$ $\frac{3}{584}\sqrt{14790}e^{13} + \frac{3}{584}\sqrt{4814}e^{26}, \frac{3}{584}\sqrt{14645}e^{17} + \frac{9}{584}\sqrt{1102}e^{24}$	$(\frac{41}{292}, -\frac{179}{1168}, -\frac{179}{584}, \frac{123}{292}, \frac{75}{584}, -\frac{15}{1168}, \frac{149}{1168}, -\frac{97}{584}, \frac{313}{1168})$ $+ \frac{3}{584}\sqrt{29522}e^1 \otimes e_3$	{2345679, 234679, 34, 345}
9431:14	$0, 0, 0, 0, 0, \frac{164}{3145}\sqrt{134}e^{12}, \frac{41}{3145}\sqrt{62}e^{16},$ $\frac{41}{3145}\sqrt{1610}e^{13} + \frac{41}{3145}\sqrt{2482}e^{26}, \frac{82}{3145}\sqrt{238}e^{17} + \frac{41}{3145}\sqrt{1094}e^{24}$	$(-\frac{369}{3145}, \frac{574}{3145}, \frac{1148}{3145}, -\frac{1107}{3145}, \frac{1148}{3145}, \frac{41}{629}, -\frac{164}{3145}, \frac{779}{3145}, -\frac{533}{3145})$ $+ \frac{41}{3145}\sqrt{1610}e^5 \otimes e_9 + \frac{41}{3145}\sqrt{3994}e^2 \otimes e_4$	{1345678, 2356}
9431:14	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{95}e^{12}, \frac{2}{85}\sqrt{57}e^{16}, \frac{2}{85}\sqrt{399}e^{13} + \frac{2}{85}\sqrt{57}e^{26},$ $\frac{2}{85}\sqrt{57}e^{17} + \frac{2}{85}\sqrt{570}e^{24}$	$(-\frac{7}{85}, \frac{1}{5}, \frac{2}{5}, -\frac{21}{85}, -\frac{21}{85}, \frac{2}{17}, \frac{3}{85}, \frac{27}{85}, -\frac{4}{85})$ $+ \frac{2}{85}\sqrt{570}e^2 \otimes e_5 + \frac{2}{85}\sqrt{874}e^3 \otimes e_9$	{14589, 279}
9431:14	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{48070}e^{12}, \frac{10}{2361}\sqrt{9361}e^{16},$ $\frac{2}{2361}\sqrt{46805}e^{13} + \frac{2}{2361}\sqrt{241615}e^{26}, \frac{22}{2361}\sqrt{6670}e^{17} + \frac{8}{2361}\sqrt{59455}e^{24}$	$(-\frac{39}{787}, \frac{182}{2361}, \frac{364}{2361}, -\frac{117}{787}, 1, \frac{65}{2361}, -\frac{52}{2361}, \frac{247}{2361}, -\frac{169}{2361})$ $+ \frac{140}{2361}\sqrt{506}e^5 \otimes e_9$	{12689, 1578, 245, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:14	$0, 0, 0, 0, 0, \frac{6}{67}\sqrt{5}e^{12}, \frac{10}{67}\sqrt{3}e^{16}, \frac{2}{67}\sqrt{195}e^{13} + \frac{6}{67}\sqrt{13}e^{26},$ $\frac{2}{67}\sqrt{105}e^{17} + \frac{2}{67}\sqrt{138}e^{24}$	$(-\frac{3}{67}, \frac{9}{67}, \frac{18}{67}, -\frac{9}{67}, -\frac{21}{67}, \frac{6}{67}, \frac{3}{67}, \frac{15}{67}, 0)$ $+ \frac{20}{67}\sqrt{3}e^3 \otimes e_9 + \frac{2}{67}\sqrt{246}e^1 \otimes e_5$	{12689, 45679}
9431:14	$0, 0, 0, 0, 0, \frac{2}{2389}\sqrt{891195}e^{12}, \frac{2}{2389}\sqrt{21147}e^{16},$ $\frac{18}{2389}\sqrt{5035}e^{13} + \frac{2}{2389}\sqrt{858971}e^{26}, \frac{6}{2389}\sqrt{13091}e^{17} + \frac{32}{2389}\sqrt{1007}e^{24}$	$(\frac{43}{2389}, \frac{395}{2389}, \frac{790}{2389}, \frac{129}{2389}, -\frac{1619}{2389}, \frac{438}{2389}, \frac{481}{2389}, \frac{833}{2389}, \frac{524}{2389})$ $+ \frac{4}{2389}\sqrt{504507}e^2 \otimes e_5$	{12348, 13456789, 2369, 357}
9431:14	$0, 0, 0, 0, 0, \frac{82}{2941}\sqrt{570}e^{12}, \frac{82}{2941}\sqrt{73}e^{16},$ $\frac{41}{2941}\sqrt{958}e^{13} + \frac{41}{2941}\sqrt{2462}e^{26}, \frac{41}{2941}\sqrt{254}e^{17} + \frac{164}{2941}\sqrt{91}e^{24}$	$(-\frac{328}{2941}, \frac{41}{173}, \frac{82}{173}, -\frac{984}{2941}, -\frac{287}{2941}, \frac{369}{2941}, \frac{41}{2941}, \frac{1066}{2941}, -\frac{287}{2941})$ $+ \frac{41}{2941}\sqrt{1202}e^3 \otimes e_5 + \frac{82}{2941}\sqrt{1013}e^2 \otimes e_4$	{134678, 236}
9431:14	$0, 0, 0, 0, 0, \frac{5}{5509}\sqrt{5538}e^{12}, \frac{20}{5509}\sqrt{3}e^{16},$ $\frac{5}{5509}\sqrt{4766}e^{13} + \frac{10}{5509}\sqrt{989}e^{26}, \frac{20}{5509}\sqrt{197}e^{17} + \frac{5}{5509}\sqrt{3982}e^{24}$	$(-\frac{15}{5509}, -\frac{20}{5509}, -\frac{40}{5509}, -\frac{45}{5509}, \frac{50}{787}, -\frac{5}{787}, -\frac{50}{5509}, -\frac{55}{5509}, -\frac{65}{5509})$ $+ \frac{10}{5509}\sqrt{1193}e^2 \otimes e_4 + \frac{5}{5509}\sqrt{5546}e^1 \otimes e_3$	{34, 345}
9431:14	$0, 0, 0, 0, 0, \frac{21}{1361}\sqrt{665}e^{12}, \frac{105}{1361}\sqrt{11}e^{16},$ $\frac{21}{1361}\sqrt{1257}e^{13} + \frac{21}{1361}\sqrt{217}e^{26}, \frac{126}{1361}\sqrt{3}e^{17} + \frac{273}{1361}\sqrt{5}e^{24}$	$(-\frac{105}{1361}, \frac{126}{1361}, \frac{252}{1361}, -\frac{315}{1361}, \frac{588}{1361}, \frac{21}{1361}, -\frac{84}{1361}, \frac{147}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{1546}e^3 \otimes e_9 + \frac{651}{1361}e^5 \otimes e_8$	{1489, 2579}
9431:14	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{15}e^{12}, \frac{4}{7}e^{16}, \frac{1}{7}\sqrt{15}e^{13} + \frac{2}{7}e^{26},$ $\frac{1}{7}\sqrt{15}e^{17} + \frac{2}{7}\sqrt{2}e^{24}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, 0, 0, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{5}e^4 \otimes e_5 + \frac{4}{7}\sqrt{2}e^1 \otimes e_3$	{234679, 34}
9431:14	$0, 0, 0, 0, 0, \frac{1}{560}\sqrt{99681}e^{12}, \frac{1}{280}\sqrt{11373}e^{16},$ $\frac{1}{560}\sqrt{370626}e^{13} + \frac{1}{140}\sqrt{7359}e^{26}, \frac{1}{560}\sqrt{99681}e^{17} + \frac{9}{280}\sqrt{446}e^{24}$	$(-\frac{1}{80}, \frac{283}{1120}, \frac{283}{560}, -\frac{3}{80}, -\frac{193}{280}, \frac{269}{1120}, \frac{51}{224}, \frac{69}{140}, \frac{241}{1120})$ $+ \frac{1}{560}\sqrt{632874}e^3 \otimes e_5$	{1256789, 158, 2457, 4569}
9431:14	$0, 0, 0, 0, 0, \frac{3347}{3347}\sqrt{1054}e^{12}, \frac{4}{3347}\sqrt{399}e^{16},$ $\frac{24}{3347}\sqrt{51}e^{13} + \frac{4}{3347}\sqrt{485}e^{26}, \frac{4}{3347}\sqrt{223}e^{17} + \frac{4}{3347}\sqrt{1703}e^{24}$	$(-\frac{6}{3347}, -\frac{10}{3347}, -\frac{20}{3347}, -\frac{18}{3347}, \frac{154}{3347}, -\frac{16}{3347}, -\frac{22}{3347}, -\frac{26}{3347}, -\frac{28}{3347})$ $- \frac{4}{3347}\sqrt{1531}e^4 \otimes e_8 + \frac{4}{3347}\sqrt{1662}e^3 \otimes e_9$	{1256789, 126789, 4569, 469}
9431:14	$0, 0, 0, 0, 0, \frac{4}{3347}\sqrt{1054}e^{12}, \frac{4}{3347}\sqrt{399}e^{16},$ $\frac{24}{3347}\sqrt{51}e^{13} + \frac{4}{3347}\sqrt{485}e^{26}, \frac{4}{3347}\sqrt{223}e^{17} + \frac{4}{3347}\sqrt{1703}e^{24}$	$(-\frac{6}{3347}, -\frac{10}{3347}, -\frac{20}{3347}, -\frac{18}{3347}, \frac{154}{3347}, -\frac{16}{3347}, \frac{22}{3347}, -\frac{26}{3347}, -\frac{28}{3347})$ $+ \frac{4}{3347}\sqrt{1531}e^4 \otimes e_8 + \frac{4}{3347}\sqrt{1662}e^3 \otimes e_9$	{1256789, 126789, 4569, 469}
9431:14	$0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{855551}e^{12}, \frac{18}{2245}\sqrt{703}e^{16},$ $\frac{2}{2245}\sqrt{565915}e^{13} + \frac{2}{2245}\sqrt{928663}e^{26}, \frac{2}{2245}\sqrt{162393}e^{17} + \frac{16}{2245}\sqrt{9139}e^{24}$	$(-\frac{289}{2245}, \frac{539}{2245}, \frac{1078}{2245}, -\frac{867}{2245}, \frac{273}{2245}, \frac{50}{449}, -\frac{39}{2245}, \frac{789}{2245}, -\frac{328}{2245})$ $+ \frac{4}{2245}\sqrt{346579}e^2 \otimes e_4$	{1345678, 134678, 2356, 236}
9431:14	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{145}e^{12}, \frac{10}{77}\sqrt{29}e^{16}, \frac{2}{77}\sqrt{145}e^{13} + \frac{2}{77}\sqrt{87}e^{26},$ $\frac{4}{77}\sqrt{145}e^{17} + \frac{4}{77}\sqrt{58}e^{24}$	$(\frac{1}{11}, \frac{4}{77}, \frac{8}{77}, \frac{3}{11}, -\frac{51}{77}, \frac{1}{7}, \frac{18}{77}, \frac{15}{77}, \frac{25}{77})$ $+ \frac{16}{77}\sqrt{29}e^1 \otimes e_5$	{1237, 1369, 23456789, 3458}
9431:14	$0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{530765}e^{12}, \frac{18}{2245}\sqrt{703}e^{16},$ $\frac{2}{2245}\sqrt{820401}e^{13} + \frac{2}{2245}\sqrt{457653}e^{26}, \frac{2}{2245}\sqrt{162393}e^{17} + \frac{76}{2245}\sqrt{555}e^{24}$	$(-\frac{289}{2245}, \frac{539}{2245}, \frac{1078}{2245}, -\frac{867}{2245}, \frac{273}{2245}, \frac{50}{449}, -\frac{39}{2245}, \frac{789}{2245}, -\frac{328}{2245})$ $+ \frac{4}{2245}\sqrt{346579}e^3 \otimes e_9$	{14589, 1489, 2579, 279}
9431:14	$0, 0, 0, 0, 0, \frac{21}{1361}\sqrt{881}e^{12}, \frac{105}{1361}\sqrt{11}e^{16}, \frac{357}{1361}e^{13} + \frac{21}{1361}\sqrt{1329}e^{26},$ $\frac{126}{1361}\sqrt{3}e^{17} + \frac{21}{1361}\sqrt{701}e^{24}$	$(-\frac{105}{1361}, \frac{126}{1361}, \frac{252}{1361}, -\frac{315}{1361}, \frac{588}{1361}, \frac{21}{1361}, -\frac{84}{1361}, \frac{147}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{1546}e^2 \otimes e_4 + \frac{651}{1361}e^5 \otimes e_8$	{134678, 2356}
9431:14	$0, 0, 0, 0, 0, \frac{3}{143}\sqrt{665}e^{12}, \frac{12}{143}\sqrt{19}e^{16}, \frac{3}{143}\sqrt{969}e^{13} + \frac{6}{143}\sqrt{247}e^{26},$ $\frac{3}{143}\sqrt{665}e^{17} + \frac{6}{143}\sqrt{646}e^{24}$	$(\frac{25}{143}, -\frac{1}{143}, -\frac{2}{143}, \frac{75}{143}, -\frac{96}{143}, \frac{24}{143}, \frac{49}{143}, \frac{23}{143}, \frac{74}{143})$ $+ \frac{3}{143}\sqrt{4541}e^4 \otimes e_5$	{12468, 14789, 259, 567}
9431:14	$0, 0, 0, 0, 0, \frac{62}{4925}\sqrt{1033}e^{12}, \frac{496}{4925}\sqrt{10}e^{16},$ $\frac{31}{4925}\sqrt{3482}e^{13} + \frac{62}{4925}\sqrt{562}e^{26}, \frac{279}{4925}\sqrt{30}e^{17} + \frac{93}{4925}\sqrt{166}e^{24}$	$(\frac{403}{4925}, -\frac{279}{4925}, -\frac{558}{4925}, \frac{1209}{4925}, -\frac{248}{985}, \frac{124}{4925}, \frac{527}{4925}, -\frac{31}{985}, \frac{186}{985})$ $+ \frac{31}{4925}\sqrt{5522}e^1 \otimes e_3 + \frac{62}{4925}\sqrt{851}e^2 \otimes e_5$	{234679, 345}
9431:14	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{255}e^{12}, \frac{10}{67}\sqrt{3}e^{16}, \frac{2}{67}\sqrt{105}e^{13} + \frac{2}{67}\sqrt{183}e^{26},$ $\frac{2}{67}\sqrt{105}e^{17} + \frac{18}{67}\sqrt{2}e^{24}$	$(-\frac{3}{67}, \frac{9}{67}, \frac{18}{67}, -\frac{9}{67}, -\frac{21}{67}, \frac{6}{67}, \frac{3}{67}, \frac{15}{67}, 0)$ $+ \frac{20}{67}\sqrt{3}e^2 \otimes e_4 + \frac{2}{67}\sqrt{246}e^1 \otimes e_5$	{12378, 345}
9431:14	$0, 0, 0, 0, 0, \frac{37}{4861}\sqrt{2410}e^{12}, \frac{74}{4861}\sqrt{779}e^{16},$ $\frac{37}{4861}\sqrt{2990}e^{13} + \frac{148}{4861}\sqrt{39}e^{26}, \frac{222}{4861}\sqrt{105}e^{17} + \frac{37}{4861}\sqrt{1038}e^{24}$	$(\frac{333}{4861}, -\frac{518}{4861}, -\frac{1036}{4861}, \frac{999}{4861}, \frac{1850}{4861}, -\frac{185}{4861}, \frac{148}{4861}, -\frac{703}{4861}, \frac{481}{4861})$ $+ \frac{37}{4861}\sqrt{6022}e^1 \otimes e_3 + \frac{74}{4861}\sqrt{685}e^5 \otimes e_9$	{234679, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:14	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{1007}e^{12}, \frac{2}{91}\sqrt{19}e^{16}, \frac{5}{91}\sqrt{57}e^{13} + \frac{2}{91}\sqrt{247}e^{26},$ $\frac{1}{91}\sqrt{19}e^{17} + \frac{4}{91}\sqrt{114}e^{24}$	$(-\frac{3}{91}, \frac{10}{91}, \frac{20}{91}, -\frac{9}{91}, -\frac{4}{13}, \frac{1}{13}, \frac{4}{91}, \frac{17}{91}, \frac{1}{91})$ $+\frac{1}{91}\sqrt{1273}e^4 \otimes e_5 + \frac{2}{91}\sqrt{494}e^3 \otimes e_9$	{1256789, 469}
9431:14	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{598}e^{12}, \frac{6}{127}\sqrt{23}e^{16}, \frac{2}{127}\sqrt{897}e^{13} + \frac{2}{127}\sqrt{23}e^{26},$ $\frac{2}{127}\sqrt{46}e^{17} + \frac{4}{127}\sqrt{299}e^{24}$	$(\frac{9}{127}, -\frac{14}{127}, -\frac{28}{127}, \frac{27}{127}, \frac{59}{127}, -\frac{5}{127}, \frac{4}{127}, -\frac{19}{127}, \frac{13}{127})$ $+\frac{4}{127}\sqrt{391}e^4 \otimes e_8 + \frac{8}{127}\sqrt{69}e^5 \otimes e_9$	{126789, 158, 2457, 469}
9431:14	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{598}e^{12}, \frac{6}{127}\sqrt{23}e^{16}, \frac{2}{127}\sqrt{897}e^{13} + \frac{2}{127}\sqrt{23}e^{26},$ $\frac{2}{127}\sqrt{46}e^{17} + \frac{4}{127}\sqrt{299}e^{24}$	$(\frac{9}{127}, -\frac{14}{127}, -\frac{28}{127}, \frac{27}{127}, \frac{59}{127}, -\frac{5}{127}, \frac{4}{127}, -\frac{19}{127}, \frac{13}{127})$ $-\frac{4}{127}\sqrt{391}e^4 \otimes e_8 + \frac{8}{127}\sqrt{69}e^5 \otimes e_9$	{126789, 158, 2457, 469}
9431:14	$0, 0, 0, 0, 0, \frac{34}{677}\sqrt{123}e^{12}, \frac{17}{677}\sqrt{466}e^{16}, \frac{34}{677}\sqrt{111}e^{13} + \frac{17}{677}\sqrt{222}e^{26},$ $\frac{34}{677}\sqrt{123}e^{17} + \frac{34}{677}\sqrt{87}e^{24}$	$(\frac{85}{677}, -\frac{102}{677}, -\frac{204}{677}, \frac{255}{677}, \frac{170}{677}, -\frac{17}{677}, \frac{68}{677}, -\frac{119}{677}, \frac{153}{677})$ $+\frac{17}{677}\sqrt{178}e^5 \otimes e_8 + \frac{221}{677}\sqrt{6}e^1 \otimes e_3$	{2345679, 345}
9431:15	$0, 0, 0, 0, 0, \frac{7}{1929}\sqrt{5990}e^{12}, \frac{7}{643}\sqrt{290}e^{16}, \frac{14}{1929}\sqrt{2335}e^{26},$ $\frac{35}{1929}\sqrt{58}e^{17} + \frac{14}{643}\sqrt{170}e^{23} + \frac{7}{1929}\sqrt{5990}e^{45}$	$(-\frac{14}{643}, \frac{119}{1929}, -\frac{42}{643}, \frac{147}{643}, -\frac{448}{1929}, \frac{77}{1929}, \frac{35}{1929}, \frac{196}{1929}, -\frac{7}{1929})$ $+\frac{7}{1929}\sqrt{8890}e^2 \otimes e_3 + \frac{7}{1929}\sqrt{8890}e^4 \otimes e_8$	{128, 3457}
9431:15	$0, 0, 0, 0, 0, \frac{70}{3161}\sqrt{1418}e^{12}, \frac{1260}{3161}e^{16}, \frac{70}{3161}\sqrt{1466}e^{26},$ $\frac{420}{3161}\sqrt{5}e^{17} + \frac{70}{3161}\sqrt{913}e^{23} + \frac{1610}{3161}e^{45}$	$(-\frac{420}{3161}, \frac{1190}{3161}, -\frac{1260}{3161}, \frac{35}{3161}, -\frac{35}{3161}, \frac{770}{3161}, \frac{350}{3161}, \frac{1960}{3161}, -\frac{70}{3161})$ $+\frac{70}{3161}\sqrt{2667}e^2 \otimes e_3$	{12458, 128, 3457, 37}
9431:15	$0, 0, 0, 0, 0, \frac{1610}{3161}e^{12}, \frac{1260}{3161}e^{16}, \frac{70}{3161}\sqrt{1466}e^{26},$ $\frac{420}{3161}\sqrt{5}e^{17} + \frac{70}{3161}\sqrt{913}e^{23} + \frac{1610}{3161}\sqrt{1418}e^{45}$	$(\frac{469}{3161}, -\frac{588}{3161}, \frac{1407}{3161}, \frac{1743}{3161}, -\frac{924}{3161}, -\frac{119}{3161}, \frac{350}{3161}, -\frac{707}{3161}, \frac{819}{3161})$ $+\frac{70}{3161}\sqrt{2667}e^4 \otimes e_8$	{128, 156789, 23469, 3457}
9431:15	$0, 0, 0, 0, 0, \frac{28}{1047}\sqrt{255}e^{12}, \frac{14}{1047}\sqrt{102}e^{16}, \frac{28}{1047}\sqrt{221}e^{26},$ $\frac{14}{1047}\sqrt{510}e^{17} + \frac{28}{1047}\sqrt{17}e^{23} + \frac{28}{1047}\sqrt{255}e^{45}$	$(\frac{70}{1047}, \frac{98}{1047}, \frac{70}{349}, \frac{329}{1047}, -\frac{679}{1047}, \frac{56}{349}, \frac{238}{1047}, \frac{266}{1047}, \frac{308}{1047})$ $+\frac{1666}{1047}e^4 \otimes e_5$	{134689, 135689, 24679, 25679}
9431:16	$0, 0, 0, 0, 0, \frac{91}{6765}\sqrt{706}e^{12}, \frac{91}{6765}\sqrt{1194}e^{16},$ $\frac{91}{6765}\sqrt{1126}e^{26} + \frac{637}{6765}\sqrt{114}e^{34}, \frac{182}{6765}\sqrt{321}e^{17} + \frac{91}{6765}\sqrt{946}e^{23} + \frac{3094}{6765}e^{45}$	$(-\frac{364}{6765}, \frac{637}{2255}, -\frac{364}{2255}, \frac{910}{1353}, -\frac{91}{165}, \frac{1547}{6765}, \frac{1183}{6765}, \frac{3458}{6765}, \frac{273}{2255})$ $+\frac{637}{6765}\sqrt{226}e^4 \otimes e_5$	{1257, 358}
9431:16	$0, 0, 0, 0, 0, \frac{14}{345}\sqrt{145}e^{12}, \frac{7}{345}\sqrt{290}e^{16}, \frac{7}{345}\sqrt{1415}e^{26} + \frac{7}{345}\sqrt{595}e^{34},$ $\frac{7}{345}\sqrt{95}e^{17} + \frac{14}{69}\sqrt{11}e^{23} + \frac{7}{23}\sqrt{6}e^{45}$	$(\frac{7}{69}, -\frac{7}{69}, \frac{7}{23}, -\frac{28}{69}, \frac{14}{23}, 0, \frac{7}{69}, -\frac{7}{69}, \frac{14}{69})$ $+\frac{7}{345}\sqrt{2905}e^5 \otimes e_8$	{146789, 3457}
9431:17	$0, 0, 0, 0, 0, \frac{48}{2959}\sqrt{282}e^{12}, \frac{48}{2959}\sqrt{743}e^{16},$ $\frac{96}{2959}\sqrt{271}e^{13} + \frac{48}{2959}\sqrt{730}e^{26} + \frac{48}{2959}\sqrt{1591}e^{45}, \frac{144}{2959}\sqrt{110}e^{17} + \frac{48}{2959}\sqrt{1355}e^{23}$	$(\frac{48}{2959}, \frac{72}{2959}, \frac{144}{2959}, \frac{1368}{2959}, -\frac{1176}{2959}, \frac{120}{2959}, \frac{168}{2959}, \frac{192}{2959}, \frac{216}{2959})$ $+\frac{192}{2959}\sqrt{159}e^4 \otimes e_9$	{2345, 3679}
9431:17	$0, 0, 0, 0, 0, \frac{48}{121}e^{12}, \frac{24}{121}\sqrt{6}e^{16},$ $\frac{16}{121}\sqrt{6}e^{13} + \frac{16}{121}\sqrt{3}e^{26} + \frac{24}{121}\sqrt{6}e^{45}, \frac{48}{121}e^{17} + \frac{8}{121}\sqrt{30}e^{23}$	$(\frac{8}{121}, \frac{12}{121}, \frac{24}{121}, \frac{112}{121}, -\frac{80}{121}, \frac{20}{121}, \frac{28}{121}, \frac{32}{121}, \frac{36}{121})$ $+\frac{192}{121}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:17	$0, 0, 0, 0, 0, \frac{48}{121}e^{12}, \frac{24}{121}\sqrt{6}e^{16},$ $\frac{16}{121}\sqrt{6}e^{13} + \frac{16}{121}\sqrt{3}e^{26} + \frac{24}{121}\sqrt{6}e^{45}, \frac{48}{121}e^{17} + \frac{8}{121}\sqrt{30}e^{23}$	$(\frac{8}{121}, \frac{12}{121}, \frac{24}{121}, \frac{112}{121}, -\frac{80}{121}, \frac{20}{121}, \frac{28}{121}, \frac{32}{121}, \frac{36}{121})$ $-\frac{192}{121}e^4 \otimes e_5$	{123478, 123578, 134689, 135689}
9431:18	$0, 0, 0, 0, 0, \frac{17}{253}\sqrt{89}e^{12}, \frac{34}{253}\sqrt{2}e^{16},$ $\frac{17}{253}\sqrt{141}e^{14} + \frac{34}{253}\sqrt{23}e^{26} + \frac{34}{253}\sqrt{22}e^{35}, \frac{17}{253}\sqrt{89}e^{17} + \frac{204}{253}\sqrt{2}e^{23}$	$(\frac{51}{253}, -\frac{17}{253}, \frac{153}{253}, -\frac{34}{253}, -\frac{136}{253}, \frac{34}{253}, \frac{85}{253}, \frac{17}{253}, \frac{136}{253})$ $+\frac{17}{253}\sqrt{433}e^3 \otimes e_5$	{259, 567}
9431:18	$0, 0, 0, 0, 0, \frac{826}{4477}\sqrt{2}e^{12}, \frac{472}{4477}\sqrt{22}e^{16},$ $\frac{59}{4477}\sqrt{1834}e^{14} + \frac{118}{4477}\sqrt{230}e^{26} + \frac{59}{4477}\sqrt{3526}e^{35}, \frac{295}{4477}\sqrt{134}e^{17} + \frac{59}{4477}\sqrt{1130}e^{23}$	$(-\frac{531}{4477}, \frac{826}{4477}, -\frac{1593}{4477}, \frac{1652}{4477}, \frac{2714}{4477}, \frac{295}{4477}, -\frac{236}{4477}, \frac{1121}{4477}, -\frac{767}{4477})$ $+\frac{118}{4477}\sqrt{1871}e^5 \otimes e_9$	{14578, 2345}
9431:18	$0, 0, 0, 0, 0, \frac{182}{421}\sqrt{2}e^{12}, \frac{78}{421}\sqrt{3}e^{16},$ $\frac{13}{421}\sqrt{634}e^{14} + \frac{26}{1263}\sqrt{570}e^{26} + \frac{13}{1263}\sqrt{2766}e^{35}, \frac{13}{1263}\sqrt{6}e^{17} + \frac{13}{421}\sqrt{598}e^{23}$	$(-\frac{39}{421}, \frac{52}{421}, -\frac{117}{421}, \frac{104}{421}, \frac{182}{421}, \frac{13}{421}, -\frac{26}{421}, \frac{65}{421}, -\frac{65}{421})$ $+\frac{26}{1263}\sqrt{1767}e^4 \otimes e_9$	{13589, 2579}
9431:18	$0, 0, 0, 0, 0, \frac{7}{277}\sqrt{295}e^{12}, \frac{7}{277}\sqrt{282}e^{16},$ $\frac{42}{277}\sqrt{10}e^{14} + \frac{14}{277}\sqrt{17}e^{26} + \frac{7}{277}\sqrt{209}e^{35}, \frac{7}{277}\sqrt{295}e^{17} + \frac{7}{277}\sqrt{266}e^{23}$	$(\frac{21}{277}, -\frac{14}{277}, \frac{63}{277}, -\frac{28}{277}, -\frac{70}{277}, \frac{7}{277}, \frac{28}{277}, -\frac{7}{277}, \frac{49}{277})$ $+\frac{7}{277}\sqrt{485}e^1 \otimes e_4$	{2345679, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:19	$0, 0, 0, 0, 0, \frac{637}{1509}e^{12}, \frac{245}{1509}\sqrt{6}e^{16}, \frac{49}{1509}\sqrt{21}e^{13} + \frac{49}{1509}\sqrt{146}e^{26},$ $\frac{147}{503}e^{17} + \frac{98}{1509}\sqrt{2}e^{23} + \frac{196}{1509}\sqrt{11}e^{45}$	$(\frac{98}{1509}, \frac{49}{503}, \frac{98}{503}, \frac{1421}{1509}, -\frac{980}{1509}, \frac{245}{1509}, \frac{343}{1509}, \frac{392}{1509}, \frac{147}{503})$ $+ \frac{2401}{1509}e^4 \otimes e_5$	{24679, 25679}
9431:19	$0, 0, 0, 0, 0, \frac{98}{5821}\sqrt{226}e^{12}, \frac{147}{5821}\sqrt{310}e^{16},$ $\frac{147}{5821}\sqrt{574}e^{13} + \frac{98}{5821}\sqrt{1139}e^{26}, \frac{294}{5821}\sqrt{59}e^{17} + \frac{49}{5821}\sqrt{4402}e^{23} + \frac{98}{5821}\sqrt{1514}e^{45}$	$(\frac{98}{5821}, \frac{147}{5821}, \frac{294}{5821}, \frac{2793}{5821}, -\frac{2352}{5821}, \frac{245}{5821}, \frac{343}{5821}, \frac{392}{5821}, \frac{441}{5821})$ $+ \frac{343}{5821}\sqrt{210}e^4 \otimes e_8$	{128, 156789}
9431:20	$0, 0, 0, 0, 0, \frac{42}{1207}\sqrt{447}e^{12}, \frac{42}{1207}\sqrt{165}e^{16},$ $\frac{21}{1207}\sqrt{4746}e^{13} + \frac{21}{1207}\sqrt{1866}e^{26}, \frac{21}{1207}\sqrt{894}e^{17} + \frac{126}{1207}\sqrt{67}e^{24} + \frac{42}{1207}\sqrt{447}e^{35}$	$(-\frac{84}{1207}, \frac{21}{71}, \frac{42}{71}, -\frac{252}{1207}, -\frac{609}{1207}, \frac{273}{1207}, \frac{189}{1207}, \frac{630}{1207}, \frac{105}{1207})$ $+ \frac{21}{1207}\sqrt{6342}e^3 \otimes e_5$	{158, 2457}
9431:20	$0, 0, 0, 0, 0, \frac{280}{3961}\sqrt{89}e^{12}, \frac{140}{3961}\sqrt{3}e^{16},$ $\frac{35}{3961}\sqrt{4830}e^{13} + \frac{35}{3961}\sqrt{5882}e^{26}, \frac{35}{3961}\sqrt{510}e^{17} + \frac{35}{3961}\sqrt{4846}e^{24} + \frac{35}{3961}\sqrt{3358}e^{35}$	$(-\frac{210}{3961}, \frac{35}{233}, \frac{70}{233}, -\frac{630}{3961}, -\frac{1225}{3961}, \frac{385}{3961}, \frac{175}{3961}, \frac{980}{3961}, -\frac{35}{3961})$ $+ \frac{35}{3961}\sqrt{7014}e^2 \otimes e_4$	{1345678, 2356}
9431:20	$0, 0, 0, 0, 0, \frac{28}{197}\sqrt{19}e^{12}, \frac{14}{197}\sqrt{39}e^{16}, \frac{98}{197}\sqrt{3}e^{13} + \frac{14}{197}\sqrt{15}e^{26},$ $\frac{14}{197}\sqrt{38}e^{17} + \frac{14}{197}\sqrt{134}e^{24} + \frac{28}{197}\sqrt{19}e^{35}$	$(\frac{21}{197}, -\frac{28}{197}, -\frac{56}{197}, \frac{63}{197}, \frac{91}{197}, -\frac{7}{197}, \frac{14}{197}, -\frac{35}{197}, \frac{35}{197})$ $- \frac{14}{197}\sqrt{182}e^4 \otimes e_8$	{126789, 158, 2457, 469}
9431:20	$0, 0, 0, 0, 0, \frac{28}{197}\sqrt{19}e^{12}, \frac{14}{197}\sqrt{39}e^{16}, \frac{98}{197}\sqrt{3}e^{13} + \frac{14}{197}\sqrt{15}e^{26},$ $\frac{14}{197}\sqrt{38}e^{17} + \frac{14}{197}\sqrt{134}e^{24} + \frac{28}{197}\sqrt{19}e^{35}$	$(\frac{21}{197}, -\frac{28}{197}, -\frac{56}{197}, \frac{63}{197}, \frac{91}{197}, -\frac{7}{197}, \frac{14}{197}, -\frac{35}{197}, \frac{35}{197})$ $+ \frac{14}{197}\sqrt{182}e^4 \otimes e_8$	{126789, 158, 2457, 469}
9431:20	$0, 0, 0, 0, 0, \frac{14}{509}\sqrt{286}e^{12}, \frac{42}{509}\sqrt{26}e^{16}, \frac{42}{509}\sqrt{14}e^{13} + \frac{14}{509}\sqrt{890}e^{26},$ $\frac{168}{509}e^{17} + \frac{14}{509}\sqrt{526}e^{24} + \frac{28}{509}\sqrt{215}e^{35}$	$(\frac{70}{509}, -\frac{84}{509}, -\frac{168}{509}, \frac{210}{509}, \frac{294}{509}, -\frac{14}{509}, \frac{56}{509}, -\frac{98}{509}, \frac{126}{509})$ $+ \frac{14}{509}\sqrt{1722}e^5 \otimes e_8$	{128, 24569}
9431:44	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{2834}e^{12}, -\frac{6}{311}\sqrt{109}e^{16}, \frac{6}{311}\sqrt{109}e^{26},$ $\frac{2}{311}\sqrt{6213}e^{17} + \frac{2}{311}\sqrt{6213}e^{28}$	$(-\frac{4}{311}, -\frac{4}{311}, \frac{145}{311}, \frac{202}{311}, -\frac{73}{311}, -\frac{8}{311}, -\frac{12}{311}, -\frac{12}{311}, -\frac{16}{311})$ $+ \frac{218}{311}e^3 \otimes e_5 + \frac{2}{311}\sqrt{18094}e^4 \otimes e_9$	{12369, 12569, 1347, 1457, 36789, 56789, 12369, 12569, 1347, 1457, 36789, 56789}
9431:44	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{2834}e^{12}, \frac{6}{311}\sqrt{109}e^{16}, \frac{6}{311}\sqrt{109}e^{26},$ $\frac{2}{311}\sqrt{6213}e^{17} + \frac{2}{311}\sqrt{6213}e^{28}$	$(-\frac{4}{311}, -\frac{4}{311}, \frac{145}{311}, \frac{202}{311}, -\frac{73}{311}, -\frac{8}{311}, -\frac{12}{311}, -\frac{12}{311}, -\frac{16}{311})$ $+ \frac{218}{311}e^3 \otimes e_5 + \frac{2}{311}\sqrt{18094}e^4 \otimes e_9$	{12369, 12569, 1347, 1457, 36789, 56789, 12369, 12569, 1347, 1457, 36789, 56789}
9431:44	$0, 0, 0, 0, 0, \frac{5}{199}\sqrt{130}e^{12}, -\frac{10}{199}\sqrt{21}e^{16}, \frac{10}{199}\sqrt{21}e^{26},$ $\frac{5}{199}\sqrt{102}e^{17} + \frac{5}{199}\sqrt{102}e^{28}$	$(\frac{5}{199}, \frac{5}{199}, -\frac{45}{199}, -\frac{45}{199}, \frac{70}{199}, \frac{10}{199}, \frac{15}{199}, \frac{15}{199}, \frac{20}{199})$ $+ \frac{5}{199}\sqrt{202}e^5 \otimes e_9 + \frac{5}{199}\sqrt{258}e^1 \otimes e_3 + \frac{5}{199}\sqrt{258}e^2 \otimes e_4$	{12578, 14689, 345, 12578, 14689, 345}
9431:44	$0, 0, 0, 0, 0, \frac{5}{199}\sqrt{130}e^{12}, \frac{10}{199}\sqrt{21}e^{16}, \frac{10}{199}\sqrt{21}e^{26},$ $\frac{5}{199}\sqrt{102}e^{17} + \frac{5}{199}\sqrt{102}e^{28}$	$(\frac{5}{199}, \frac{5}{199}, -\frac{45}{199}, -\frac{45}{199}, \frac{70}{199}, \frac{10}{199}, \frac{15}{199}, \frac{15}{199}, \frac{20}{199})$ $+ \frac{5}{199}\sqrt{202}e^5 \otimes e_9 + \frac{5}{199}\sqrt{258}e^1 \otimes e_3 + \frac{5}{199}\sqrt{258}e^2 \otimes e_4$	{12578, 14689, 345, 12578, 14689, 345}
9431:44	$0, 0, 0, 0, 0, \frac{4}{1125}\sqrt{17806}e^{12}, -\frac{2}{1125}\sqrt{89030}e^{16}, \frac{4}{1125}\sqrt{3991}e^{26},$ $\frac{4}{1125}\sqrt{17806}e^{17} + \frac{2}{1125}\sqrt{33770}e^{28}$	$(\frac{64}{1125}, \frac{64}{1125}, \frac{49}{125}, -\frac{22}{45}, -\frac{173}{1125}, \frac{128}{1125}, \frac{64}{375}, \frac{64}{375}, \frac{256}{1125})$ $+ \frac{4}{375}\sqrt{5833}e^1 \otimes e_4 + \frac{64}{1125}e^3 \otimes e_5$	{1237, 1257, 1369, 1569, 2346789, 2456789, 348, 458, 1237, 1257, 1369, 1569, 2346789, 2456789, 348, 458}
9431:44	$0, 0, 0, 0, 0, \frac{4}{1125}\sqrt{17806}e^{12}, \frac{2}{1125}\sqrt{89030}e^{16}, \frac{4}{1125}\sqrt{3991}e^{26},$ $\frac{4}{1125}\sqrt{17806}e^{17} + \frac{2}{1125}\sqrt{33770}e^{28}$	$(\frac{64}{1125}, \frac{64}{1125}, \frac{49}{125}, -\frac{22}{45}, -\frac{173}{1125}, \frac{128}{1125}, \frac{64}{375}, \frac{64}{375}, \frac{256}{1125})$ $+ \frac{4}{375}\sqrt{5833}e^1 \otimes e_4 + \frac{64}{1125}e^3 \otimes e_5$	{1237, 1257, 1369, 1569, 2346789, 2456789, 348, 458, 1237, 1257, 1369, 1569, 2346789, 2456789, 348, 458}
9431:44	$0, 0, 0, 0, 0, \frac{4}{99}\sqrt{79}e^{12}, -\frac{2}{99}\sqrt{395}e^{16}, \frac{2}{99}\sqrt{395}e^{26},$ $\frac{4}{99}\sqrt{79}e^{17} + \frac{4}{99}\sqrt{79}e^{28}$	$(\frac{7}{99}, \frac{7}{99}, 1, -\frac{59}{99}, \frac{20}{99}, \frac{14}{99}, \frac{7}{33}, \frac{7}{33}, \frac{28}{99})$ $+ \frac{158}{99}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689, 3, 35, 4, 45, 123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689, 3, 35, 4, 45}
9431:44	$0, 0, 0, 0, 0, \frac{4}{99}\sqrt{79}e^{12}, \frac{2}{99}\sqrt{395}e^{16}, \frac{2}{99}\sqrt{395}e^{26},$ $\frac{4}{99}\sqrt{79}e^{17} + \frac{4}{99}\sqrt{79}e^{28}$	$(\frac{7}{99}, \frac{7}{99}, 1, -\frac{59}{99}, \frac{20}{99}, \frac{14}{99}, \frac{7}{33}, \frac{7}{33}, \frac{28}{99})$ $+ \frac{158}{99}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689, 3, 35, 4, 45, 123578, 12378, 124578, 12478, 135689, 13689, 145689, 14689, 3, 35, 4, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:44	$0, 0, 0, 0, 0, \frac{2}{409}\sqrt{17806}e^{12}, -\frac{1}{409}\sqrt{89030}e^{16}, \frac{2}{409}\sqrt{3991}e^{26},$ $\frac{2}{409}\sqrt{17806}e^{17} + \frac{1}{409}\sqrt{33770}e^{28}$	$(\frac{32}{409}, \frac{32}{409}, -\frac{275}{409}, \frac{67}{409}, \frac{67}{409}, \frac{64}{409}, \frac{96}{409}, \frac{96}{409}, \frac{128}{409})$ $+ \frac{6}{409}\sqrt{5833}e^1 \otimes e_3$	{12457, 1247, 127, 14569, 1469, 169, 23456789, 2346789, 236789, 3458, 348, 38, 12457, 1247, 127, 14569, 1469, 169, 23456789, 2346789, 236789, 3458, 348, 38}
9431:44	$0, 0, 0, 0, 0, \frac{2}{409}\sqrt{17806}e^{12}, \frac{1}{409}\sqrt{89030}e^{16}, \frac{2}{409}\sqrt{3991}e^{26},$ $\frac{2}{409}\sqrt{17806}e^{17} + \frac{1}{409}\sqrt{33770}e^{28}$	$(\frac{32}{409}, \frac{32}{409}, -\frac{275}{409}, \frac{67}{409}, \frac{67}{409}, \frac{64}{409}, \frac{96}{409}, \frac{96}{409}, \frac{128}{409})$ $+ \frac{6}{409}\sqrt{5833}e^1 \otimes e_3$	{12457, 1247, 127, 14569, 1469, 169, 23456789, 2346789, 236789, 3458, 348, 38, 12457, 1247, 127, 14569, 1469, 169, 23456789, 2346789, 236789, 3458, 348, 38}
9431:44	$0, 0, 0, 0, 0, \frac{4}{389}\sqrt{2086}e^{12}, -\frac{1}{389}\sqrt{16241}e^{16}, \frac{1}{389}\sqrt{16241}e^{26},$ $\frac{1}{389}\sqrt{7897}e^{17} + \frac{1}{389}\sqrt{7897}e^{28}$	$(\frac{25}{389}, \frac{25}{389}, -\frac{124}{389}, -\frac{124}{389}, \frac{47}{389}, \frac{50}{389}, \frac{75}{389}, \frac{75}{389}, \frac{100}{389})$ $+ \frac{3}{389}\sqrt{5662}e^1 \otimes e_3 + \frac{3}{389}\sqrt{5662}e^2 \otimes e_4$	{12578, 1278, 145689, 14689, 34, 345, 12578, 1278, 145689, 14689, 34, 345}
9431:44	$0, 0, 0, 0, 0, \frac{4}{389}\sqrt{2086}e^{12}, \frac{1}{389}\sqrt{16241}e^{16}, \frac{1}{389}\sqrt{16241}e^{26},$ $\frac{1}{389}\sqrt{7897}e^{17} + \frac{1}{389}\sqrt{7897}e^{28}$	$(\frac{25}{389}, \frac{25}{389}, -\frac{124}{389}, -\frac{124}{389}, \frac{47}{389}, \frac{50}{389}, \frac{75}{389}, \frac{75}{389}, \frac{100}{389})$ $+ \frac{3}{389}\sqrt{5662}e^1 \otimes e_3 + \frac{3}{389}\sqrt{5662}e^2 \otimes e_4$	{12578, 1278, 145689, 14689, 34, 345, 12578, 1278, 145689, 14689, 34, 345}
9431:44	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{2834}e^{12}, -\frac{3}{101}\sqrt{109}e^{16}, \frac{3}{101}\sqrt{109}e^{26},$ $\frac{1}{101}\sqrt{6213}e^{17} + \frac{1}{101}\sqrt{6213}e^{28}$	$(-\frac{2}{101}, -\frac{2}{101}, 1, \frac{18}{101}, \frac{18}{101}, -\frac{4}{101}, -\frac{6}{101}, -\frac{6}{101}, -\frac{8}{101})$ $+ \frac{1}{101}\sqrt{18094}e^3 \otimes e_9$	{124569, 12469, 1269, 13457, 1347, 137, 456789, 46789, 6789, 124569, 12469, 1269, 13457, 1347, 137, 456789, 46789, 6789}
9431:44	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{2834}e^{12}, \frac{3}{101}\sqrt{109}e^{16}, \frac{3}{101}\sqrt{109}e^{26},$ $\frac{1}{101}\sqrt{6213}e^{17} + \frac{1}{101}\sqrt{6213}e^{28}$	$(-\frac{2}{101}, -\frac{2}{101}, 1, \frac{18}{101}, \frac{18}{101}, -\frac{4}{101}, -\frac{6}{101}, -\frac{6}{101}, -\frac{8}{101})$ $+ \frac{1}{101}\sqrt{18094}e^3 \otimes e_9$	{124569, 12469, 1269, 13457, 1347, 137, 456789, 46789, 6789, 124569, 12469, 1269, 13457, 1347, 137, 456789, 46789, 6789}
9431:46	$0, 0, 0, 0, 0, \frac{2}{39}\sqrt{62}e^{12}, -\frac{2}{39}\sqrt{62}e^{16}, \frac{2}{39}\sqrt{62}e^{26},$ $\frac{2}{39}\sqrt{31}e^{17} + \frac{2}{39}\sqrt{31}e^{28} + \frac{2}{39}\sqrt{62}e^{34}$	$(\frac{1}{13}, \frac{1}{13}, \frac{37}{39}, -\frac{25}{39}, \frac{8}{39}, \frac{2}{39}, \frac{3}{13}, \frac{3}{13}, \frac{4}{13})$ $+ \frac{62}{39}e^3 \otimes e_4$	{135689, 13689, 145689, 14689, 135689, 13689, 145689, 14689}
9431:46	$0, 0, 0, 0, 0, \frac{2}{39}\sqrt{62}e^{12}, \frac{2}{39}\sqrt{62}e^{16}, \frac{2}{39}\sqrt{62}e^{26},$ $\frac{2}{39}\sqrt{31}e^{17} + \frac{2}{39}\sqrt{31}e^{28} + \frac{2}{39}\sqrt{62}e^{34}$	$(\frac{1}{13}, \frac{1}{13}, \frac{37}{39}, -\frac{25}{39}, \frac{8}{39}, \frac{2}{39}, \frac{3}{13}, \frac{3}{13}, \frac{4}{13})$ $+ \frac{62}{39}e^3 \otimes e_4$	{135689, 13689, 145689, 14689, 135689, 13689, 145689, 14689}
9431:46	$0, 0, 0, 0, 0, \frac{19}{481}\sqrt{274}e^{12}, -\frac{19}{481}\sqrt{341}e^{16}, \frac{19}{481}\sqrt{61}e^{26},$ $\frac{19}{481}\sqrt{271}e^{17} + \frac{19}{481}\sqrt{131}e^{28} + \frac{19}{481}\sqrt{6}e^{34}$	$(\frac{38}{481}, \frac{38}{481}, \frac{76}{481}, \frac{76}{481}, -\frac{323}{481}, \frac{76}{481}, \frac{114}{481}, \frac{114}{481}, \frac{152}{481})$ $+ \frac{38}{481}\sqrt{201}e^1 \otimes e_5$	{12347, 127, 1369, 2356789, 3458, 58, 12347, 127, 1369, 2356789, 3458, 58}
9431:46	$0, 0, 0, 0, 0, \frac{19}{481}\sqrt{274}e^{12}, \frac{19}{481}\sqrt{341}e^{16}, \frac{19}{481}\sqrt{61}e^{26},$ $\frac{19}{481}\sqrt{271}e^{17} + \frac{19}{481}\sqrt{131}e^{28} + \frac{19}{481}\sqrt{6}e^{34}$	$(\frac{38}{481}, \frac{38}{481}, \frac{76}{481}, \frac{76}{481}, -\frac{323}{481}, \frac{76}{481}, \frac{114}{481}, \frac{114}{481}, \frac{152}{481})$ $+ \frac{38}{481}\sqrt{201}e^1 \otimes e_5$	{12347, 127, 1369, 2356789, 3458, 58, 12347, 127, 1369, 2356789, 3458, 58}
9431:46	$0, 0, 0, 0, 0, \frac{38}{1323}\sqrt{274}e^{12}, -\frac{38}{1323}\sqrt{341}e^{16}, \frac{38}{1323}\sqrt{61}e^{26},$ $\frac{38}{1323}\sqrt{271}e^{17} + \frac{38}{1323}\sqrt{131}e^{28} + \frac{38}{1323}\sqrt{6}e^{34}$	$(\frac{76}{1323}, \frac{76}{1323}, \frac{19}{49}, -\frac{209}{1323}, -\frac{646}{1323}, \frac{152}{1323}, \frac{76}{441}, \frac{76}{441}, \frac{304}{1323})$ $+ \frac{722}{1323}e^3 \otimes e_4 + \frac{76}{1323}\sqrt{201}e^1 \otimes e_5$	{1369, 1469, 2356789, 2456789, 1369, 1469, 2356789, 2456789}
9431:46	$0, 0, 0, 0, 0, \frac{38}{1323}\sqrt{274}e^{12}, \frac{38}{1323}\sqrt{341}e^{16}, \frac{38}{1323}\sqrt{61}e^{26},$ $\frac{38}{1323}\sqrt{271}e^{17} + \frac{38}{1323}\sqrt{131}e^{28} + \frac{38}{1323}\sqrt{6}e^{34}$	$(\frac{76}{1323}, \frac{76}{1323}, \frac{19}{49}, -\frac{209}{1323}, -\frac{646}{1323}, \frac{152}{1323}, \frac{76}{441}, \frac{76}{441}, \frac{304}{1323})$ $+ \frac{722}{1323}e^3 \otimes e_4 + \frac{76}{1323}\sqrt{201}e^1 \otimes e_5$	{1369, 1469, 2356789, 2456789, 1369, 1469, 2356789, 2456789}
9431:46	$0, 0, 0, 0, 0, \frac{3}{236}\sqrt{1758}e^{12}, -\frac{1}{236}\sqrt{6446}e^{16}, \frac{1}{236}\sqrt{6446}e^{26},$ $\frac{1}{236}\sqrt{10841}e^{17} + \frac{1}{236}\sqrt{10841}e^{28} + \frac{1}{236}\sqrt{53326}e^{34}$	$(\frac{49}{472}, \frac{49}{472}, \frac{145}{236}, -\frac{47}{236}, -\frac{37}{59}, \frac{49}{236}, \frac{147}{472}, \frac{147}{472}, \frac{49}{118})$ $+ \frac{2}{59}\sqrt{1758}e^3 \otimes e_5$	{123789, 1245789, 13468, 1568, 39, 459, 123789, 1245789, 13468, 1568, 39, 459}
9431:46	$0, 0, 0, 0, 0, \frac{3}{236}\sqrt{1758}e^{12}, \frac{1}{236}\sqrt{6446}e^{16}, \frac{1}{236}\sqrt{6446}e^{26},$ $\frac{1}{236}\sqrt{10841}e^{17} + \frac{1}{236}\sqrt{10841}e^{28} + \frac{1}{236}\sqrt{53326}e^{34}$	$(\frac{49}{472}, \frac{49}{472}, \frac{145}{236}, -\frac{47}{236}, -\frac{37}{59}, \frac{49}{236}, \frac{147}{472}, \frac{147}{472}, \frac{49}{118})$ $+ \frac{2}{59}\sqrt{1758}e^3 \otimes e_5$	{123789, 1245789, 13468, 1568, 39, 459, 123789, 1245789, 13468, 1568, 39, 459}
9431:46	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{22}e^{12}, -\frac{2}{33}\sqrt{11}e^{16}, \frac{2}{33}\sqrt{11}e^{26},$ $\frac{2}{33}\sqrt{55}e^{17} + \frac{2}{33}\sqrt{55}e^{28} + \frac{4}{33}\sqrt{11}e^{34}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0, 0, 0)$ $+ \frac{2}{11}\sqrt{22}e^5 \otimes e_9 + \frac{2}{3}e^3 \otimes e_4$	{12369, 12469, 36789, 46789, 12369, 12469, 36789, 46789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9431:46	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{22}e^{12}, \frac{2}{33}\sqrt{11}e^{16}, \frac{2}{33}\sqrt{11}e^{26},$ $\frac{2}{33}\sqrt{55}e^{17} + \frac{2}{33}\sqrt{55}e^{28} + \frac{4}{33}\sqrt{11}e^{34}$	$(0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0, 0, 0)$ $+ \frac{2}{11}\sqrt{22}e^5 \otimes e_9 + \frac{2}{3}e^3 \otimes e_4$	{12369, 12469, 36789, 46789, 12369, 12469, 36789, 46789}
9431:46	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{22}e^{12}, -\frac{1}{11}\sqrt{11}e^{16}, \frac{1}{11}\sqrt{11}e^{26},$ $\frac{1}{11}\sqrt{55}e^{17} + \frac{1}{11}\sqrt{55}e^{28} + \frac{2}{11}\sqrt{11}e^{34}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{3}{11}\sqrt{22}e^5 \otimes e_9$	{12369, 13457, 157, 36789, 12369, 13457, 157, 36789}
9431:46	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{22}e^{12}, \frac{1}{11}\sqrt{11}e^{16}, \frac{1}{11}\sqrt{11}e^{26},$ $\frac{1}{11}\sqrt{55}e^{17} + \frac{1}{11}\sqrt{55}e^{28} + \frac{2}{11}\sqrt{11}e^{34}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{3}{11}\sqrt{22}e^5 \otimes e_9$	{12369, 13457, 157, 36789, 12369, 13457, 157, 36789}
9421:1	$0, 0, 0, 0, 0, \frac{8}{391}\sqrt{798}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{4}{391}\sqrt{570}e^{16}, \frac{4}{391}\sqrt{494}e^{18}$	$(-\frac{41}{391}, \frac{155}{391}, \frac{182}{391}, -\frac{122}{391}, -\frac{149}{391}, \frac{114}{391}, \frac{60}{391}, \frac{73}{391}, \frac{32}{391})$ $+ \frac{304}{391}e^3 \otimes e_4 + \frac{8}{391}\sqrt{1843}e^2 \otimes e_5$	{123789, 124789, 13567, 14567, 23678, 24678, 3579, 4579}
9421:1	$0, 0, 0, 0, 0, \frac{4}{311}\sqrt{370}e^{12}, \frac{2}{311}\sqrt{2442}e^{34}, \frac{2}{311}\sqrt{2442}e^{16}, \frac{2}{311}\sqrt{2886}e^{18}$	$(\frac{14}{311}, -\frac{4}{311}, \frac{7}{311}, -\frac{67}{311}, \frac{112}{311}, \frac{10}{311}, -\frac{60}{311}, \frac{24}{311}, \frac{38}{311})$ $+ \frac{18}{311}\sqrt{74}e^1 \otimes e_7 + \frac{4}{311}\sqrt{703}e^5 \otimes e_9 + \frac{4}{311}e^3 \otimes e_4$	{236789, 246789, 357, 457}
9421:1	$0, 0, 0, 0, 0, \frac{3}{2021}\sqrt{16282}e^{12}, \frac{1}{2021}\sqrt{779210}e^{34}, \frac{4}{2021}\sqrt{61639}e^{16},$ $\frac{1}{2021}\sqrt{1035070}e^{18}$	$(\frac{466}{2021}, -\frac{697}{2021}, \frac{79}{2021}, -\frac{79}{2021}, \frac{1005}{2021}, -\frac{231}{2021}, \frac{158}{2021}, \frac{5}{2021}, \frac{701}{2021})$ $+ \frac{1}{2021}\sqrt{1742174}e^5 \otimes e_7 + \frac{4}{2021}\sqrt{147701}e^1 \otimes e_2$	{13458, 1378, 158, 2345, 237, 25}
9421:1	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{141}e^{12}, \frac{4}{59}\sqrt{47}e^{34}, \frac{4}{59}\sqrt{47}e^{16}, \frac{2}{59}\sqrt{141}e^{18}$	$(\frac{2}{59}, \frac{9}{59}, \frac{55}{59}, -\frac{39}{59}, \frac{12}{59}, \frac{11}{59}, \frac{16}{59}, \frac{13}{59}, \frac{15}{59})$ $+ \frac{94}{59}e^3 \otimes e_4$	{123578, 12378, 124578, 12478, 135679, 13679, 145679, 14679, 2356789, 236789, 2456789, 246789, 357, 37, 457, 47}
9421:1	$0, 0, 0, 0, 0, \frac{1}{66}\sqrt{1023}e^{12}, \frac{1}{33}\sqrt{341}e^{34}, \frac{1}{33}\sqrt{341}e^{16}, \frac{1}{66}\sqrt{1023}e^{18}$	$(\frac{1}{6}, -\frac{3}{44}, -\frac{5}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{13}{132}, -\frac{10}{33}, \frac{35}{132}, \frac{19}{44})$ $+ \frac{1}{11}\sqrt{93}e^1 \otimes e_7$	{123458, 12348, 1258, 128, 134569, 13469, 1569, 169, 2356789, 236789, 357, 37}
9421:1	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{57}e^{12}, \frac{2}{67}\sqrt{57}e^{34}, \frac{8}{67}\sqrt{19}e^{16}, \frac{4}{67}\sqrt{57}e^{18}$	$(\frac{8}{67}, -\frac{3}{67}, \frac{25}{67}, -\frac{13}{67}, \frac{30}{67}, \frac{5}{67}, \frac{12}{67}, \frac{13}{67}, \frac{21}{67})$ $+ \frac{2}{67}\sqrt{741}e^1 \otimes e_5 + \frac{38}{67}e^3 \otimes e_4$	{12378, 12478, 13679, 14679, 2356789, 2456789, 357, 457}
9421:1	$0, 0, 0, 0, 0, \frac{2}{163}\sqrt{1023}e^{12}, \frac{4}{163}\sqrt{341}e^{34}, \frac{4}{163}\sqrt{341}e^{16}, \frac{2}{163}\sqrt{1023}e^{18}$	$(\frac{22}{163}, -\frac{9}{163}, \frac{11}{163}, -\frac{51}{163}, \frac{24}{163}, \frac{13}{163}, -\frac{40}{163}, \frac{35}{163}, \frac{57}{163})$ $+ \frac{12}{163}\sqrt{93}e^1 \otimes e_7 + \frac{62}{163}e^3 \otimes e_4$	{2356789, 236789, 2456789, 246789, 357, 37, 457, 47}
9421:1	$0, 0, 0, 0, 0, \frac{8}{5909}\sqrt{27326}e^{12}, \frac{2}{5909}\sqrt{178670}e^{34}, \frac{8}{5909}\sqrt{64111}e^{16},$ $\frac{2}{5909}\sqrt{1847658}e^{18}$	$(\frac{610}{5909}, -\frac{1492}{5909}, \frac{1391}{5909}, -\frac{711}{5909}, \frac{2440}{5909}, -\frac{882}{5909}, \frac{680}{5909}, -\frac{272}{5909}, \frac{338}{5909})$ $+ \frac{2102}{5909}e^3 \otimes e_4 + \frac{2}{5909}\sqrt{2028430}e^5 \otimes e_9 + \frac{2}{5909}\sqrt{2541318}e^1 \otimes e_2$	{13578, 14578, 2357, 2457}
9421:1	$0, 0, 0, 0, 0, \frac{1}{2319}\sqrt{112674}e^{12}, \frac{1}{2319}\sqrt{326206}e^{34}, \frac{1}{773}\sqrt{23210}e^{16},$ $\frac{2}{773}\sqrt{8018}e^{18}$	$(\frac{13}{773}, \frac{1}{773}, \frac{331}{2319}, -\frac{503}{2319}, \frac{90}{773}, \frac{14}{773}, -\frac{172}{2319}, \frac{27}{773}, \frac{40}{773})$ $+ \frac{2}{2319}\sqrt{87987}e^3 \otimes e_9 + \frac{3}{773}\sqrt{6330}e^1 \otimes e_7$	{123458, 12348, 1569, 169, 2456789, 246789, 357, 37}
9421:1	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{15}e^{12}, \frac{1}{49}\sqrt{165}e^{34}, \frac{1}{49}\sqrt{165}e^{16}, \frac{1}{14}\sqrt{15}e^{18}$	$(-\frac{5}{98}, \frac{39}{196}, -\frac{5}{49}, -\frac{5}{49}, \frac{6}{49}, \frac{29}{196}, -\frac{10}{49}, \frac{19}{196}, \frac{9}{196})$ $+ \frac{4}{49}\sqrt{15}e^2 \otimes e_9 + \frac{9}{49}\sqrt{5}e^1 \otimes e_7$	{123458, 12348, 1258, 128, 134569, 13469, 1569, 169}
9421:1	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{2139}e^{12}, \frac{1}{31}\sqrt{138}e^{34}, \frac{1}{31}\sqrt{138}e^{16}, \frac{1}{62}\sqrt{2139}e^{18}$	$(-\frac{23}{62}, \frac{3}{4}, \frac{4}{31}, \frac{4}{31}, \frac{6}{31}, \frac{47}{31}, \frac{8}{31}, \frac{1}{124}, -\frac{45}{124})$ $+ \frac{5}{31}\sqrt{69}e^2 \otimes e_9$	{123458, 12348, 123578, 12378, 1258, 128, 134569, 13469, 135679, 13679, 1569, 169}
9421:1	$0, 0, 0, 0, 0, \frac{12}{355}\sqrt{95}e^{12}, \frac{12}{355}\sqrt{114}e^{34}, \frac{3}{355}\sqrt{437}e^{16}, \frac{12}{355}\sqrt{95}e^{18}$	$(-\frac{57}{355}, \frac{24}{71}, \frac{72}{355}, -\frac{99}{355}, \frac{144}{355}, \frac{63}{355}, -\frac{27}{355}, \frac{6}{355}, -\frac{51}{355})$ $+ \frac{171}{355}e^3 \otimes e_4 + \frac{3}{355}\sqrt{4161}e^5 \otimes e_7 + \frac{3}{355}\sqrt{4769}e^2 \otimes e_9$	{12378, 12478, 13679, 14679}
9421:1	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{31639}e^{12}, \frac{1}{2433}\sqrt{1769602}e^{34}, \frac{2}{811}\sqrt{5455}e^{16},$ $\frac{2}{2433}\sqrt{45822}e^{18}$	$(-\frac{86}{811}, \frac{320}{811}, \frac{410}{2433}, -\frac{541}{2433}, -\frac{227}{811}, \frac{234}{811}, -\frac{131}{2433}, \frac{148}{811}, \frac{62}{811})$ $+ \frac{1}{2433}\sqrt{2075082}e^3 \otimes e_5 + \frac{2}{2433}\sqrt{661146}e^2 \otimes e_7$	{123489, 12589, 1367, 14567, 23468, 2568, 379, 4579}
9421:1	$0, 0, 0, 0, 0, \frac{24}{1093}\sqrt{638}e^{12}, \frac{8}{1093}\sqrt{5434}e^{34}, \frac{24}{1093}\sqrt{110}e^{16},$ $\frac{16}{1093}\sqrt{231}e^{18}$	$(-\frac{129}{1093}, \frac{480}{1093}, \frac{240}{1093}, -\frac{464}{1093}, \frac{135}{1093}, \frac{351}{1093}, -\frac{224}{1093}, \frac{222}{1093}, \frac{93}{1093})$ $+ \frac{16}{1093}\sqrt{3333}e^2 \otimes e_7 + \frac{704}{1093}e^3 \otimes e_4$	{13567, 1367, 14567, 1467, 3579, 379, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:1	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{466}e^{12}, \frac{1}{183}\sqrt{28426}e^{34}, \frac{2}{183}\sqrt{1398}e^{16}, \frac{1}{61}\sqrt{466}e^{18}$	$(\frac{2}{61}, \frac{9}{61}, \frac{2}{3}, -\frac{25}{183}, -\frac{37}{61}, \frac{11}{61}, \frac{97}{183}, \frac{13}{61}, \frac{15}{61})$ $+\frac{1}{183}\sqrt{1398}e^3 \otimes e_5$	{12348, 12378, 124578, 1258, 13469, 13679, 145679, 1569, 234689, 236789, 2456789, 25689, 34, 37, 457, 5}
9421:1	$0, 0, 0, 0, 0, \frac{8}{907}\sqrt{2830}e^{12}, \frac{16}{907}\sqrt{849}e^{34}, \frac{2}{907}\sqrt{11037}e^{16}, \frac{8}{907}\sqrt{1698}e^{18}$	$(-\frac{178}{907}, \frac{416}{907}, -\frac{75}{907}, -\frac{75}{907}, \frac{448}{907}, \frac{238}{907}, -\frac{150}{907}, \frac{60}{907}, -\frac{118}{907})$ $+\frac{2}{907}\sqrt{93673}e^5 \otimes e_9 + \frac{6}{907}\sqrt{14433}e^2 \otimes e_7$	{123458, 1258, 13679, 234689, 2689, 357}
9421:1	$0, 0, 0, 0, 0, \frac{4}{595}\sqrt{2830}e^{12}, \frac{8}{595}\sqrt{849}e^{34}, \frac{1}{595}\sqrt{11037}e^{16}, \frac{4}{595}\sqrt{1698}e^{18}$	$(-\frac{89}{595}, \frac{208}{595}, \frac{104}{595}, -\frac{179}{595}, \frac{32}{85}, \frac{1}{5}, -\frac{15}{119}, \frac{6}{119}, -\frac{59}{595})$ $+\frac{1}{595}\sqrt{93673}e^5 \otimes e_9 + \frac{283}{595}e^3 \otimes e_4 + \frac{3}{595}\sqrt{14433}e^2 \otimes e_7$	{13679, 14679, 357, 457}
9421:1	$0, 0, 0, 0, 0, \frac{4}{391}\sqrt{494}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{4}{391}\sqrt{570}e^{16}, \frac{8}{391}\sqrt{798}e^{18}$	$(-\frac{41}{391}, \frac{58}{391}, \frac{182}{391}, -\frac{122}{391}, \frac{239}{391}, \frac{1}{23}, \frac{60}{391}, -\frac{24}{391}, -\frac{65}{391})$ $+\frac{304}{391}e^3 \otimes e_4 + \frac{8}{391}\sqrt{1843}e^5 \otimes e_9$	{123679, 124679, 13578, 14578, 2357, 2457, 36789, 46789}
9421:1	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{57}e^{12}, \frac{1}{24}\sqrt{57}e^{34}, \frac{1}{6}\sqrt{19}e^{16}, \frac{1}{12}\sqrt{57}e^{18}$	$(\frac{1}{6}, -\frac{1}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{5}{48}, \frac{5}{48}, \frac{1}{4}, \frac{13}{48}, \frac{7}{16})$ $+\frac{1}{24}\sqrt{741}e^1 \otimes e_5$	{12348, 12378, 128, 13469, 13679, 169, 2345689, 2356789, 25689, 345, 357, 5}
9421:1	$0, 0, 0, 0, 0, \frac{16}{741}\sqrt{231}e^{12}, \frac{8}{247}\sqrt{110}e^{34}, \frac{8}{741}\sqrt{5434}e^{16}, \frac{8}{247}\sqrt{638}e^{18}$	$(\frac{275}{741}, -\frac{11}{19}, \frac{30}{247}, \frac{30}{247}, \frac{45}{247}, -\frac{154}{741}, \frac{60}{247}, \frac{121}{741}, \frac{132}{247})$ $+\frac{16}{741}\sqrt{3333}e^1 \otimes e_2$	{13458, 1348, 13578, 1378, 158, 18, 2, 234, 2345, 2357, 237, 25}
9421:1	$0, 0, 0, 0, 0, \frac{2}{2433}\sqrt{45822}e^{12}, \frac{1}{2433}\sqrt{1769602}e^{34}, \frac{2}{811}\sqrt{5455}e^{16}, \frac{2}{811}\sqrt{31639}e^{18}$	$(-\frac{86}{811}, \frac{118}{811}, \frac{410}{2433}, \frac{671}{2433}, -\frac{227}{811}, \frac{32}{811}, \frac{1081}{2433}, -\frac{54}{811}, -\frac{140}{811})$ $+\frac{1}{2433}\sqrt{2075082}e^3 \otimes e_5 + \frac{2}{2433}\sqrt{661146}e^4 \otimes e_9$	{123679, 12569, 1348, 14578, 234, 2457, 36789, 5689}
9421:1	$0, 0, 0, 0, 0, \frac{3}{2021}\sqrt{16282}e^{12}, \frac{1}{2021}\sqrt{779210}e^{34}, \frac{4}{2021}\sqrt{61639}e^{16}, \frac{1}{2021}\sqrt{1035070}e^{18}$	$(\frac{466}{2021}, -\frac{697}{2021}, \frac{670}{2021}, -\frac{79}{2021}, -\frac{493}{2021}, -\frac{231}{2021}, \frac{591}{2021}, \frac{5}{43}, \frac{701}{2021})$ $+\frac{1}{2021}\sqrt{1742174}e^3 \otimes e_5 + \frac{4}{2021}\sqrt{147701}e^1 \otimes e_2$	{1348, 1378, 14578, 158, 234, 237, 2457, 25}
9421:1	$0, 0, 0, 0, 0, \frac{4}{239}\sqrt{494}e^{12}, \frac{4}{239}\sqrt{570}e^{34}, \frac{4}{239}\sqrt{570}e^{16}, \frac{8}{239}\sqrt{798}e^{18}$	$(-\frac{41}{239}, \frac{58}{239}, \frac{30}{239}, \frac{30}{239}, 1, \frac{17}{239}, \frac{60}{239}, -\frac{24}{239}, -\frac{65}{239})$ $+\frac{8}{239}\sqrt{1843}e^5 \otimes e_9$	{123469, 123679, 1269, 13458, 13578, 158, 2345, 2357, 25, 34689, 36789, 689}
9421:1	$0, 0, 0, 0, 0, \frac{4}{259}\sqrt{858}e^{12}, \frac{4}{259}\sqrt{506}e^{34}, \frac{4}{259}\sqrt{561}e^{16}, \frac{20}{259}\sqrt{11}e^{18}$	$(-\frac{1}{259}, \frac{60}{259}, -\frac{2}{37}, -\frac{2}{37}, -\frac{89}{259}, \frac{59}{259}, -\frac{4}{37}, \frac{58}{259}, \frac{57}{259})$ $+\frac{44}{259}\sqrt{11}e^1 \otimes e_5 + \frac{4}{259}\sqrt{1166}e^2 \otimes e_7$	{12348, 128, 13679, 2345689, 25689, 357}
9421:1	$0, 0, 0, 0, 0, \frac{8}{239}\sqrt{798}e^{12}, \frac{4}{239}\sqrt{570}e^{34}, \frac{4}{239}\sqrt{570}e^{16}, \frac{4}{239}\sqrt{494}e^{18}$	$(-\frac{41}{239}, \frac{155}{239}, \frac{30}{239}, \frac{30}{239}, -\frac{149}{239}, \frac{114}{239}, \frac{60}{239}, \frac{73}{239}, \frac{32}{239})$ $+\frac{8}{239}\sqrt{1843}e^2 \otimes e_5$	{123489, 123789, 1289, 13456, 13567, 156, 23468, 23678, 268, 3459, 3579, 59}
9421:1	$0, 0, 0, 0, 0, \frac{2}{137}\sqrt{370}e^{12}, \frac{1}{137}\sqrt{2442}e^{34}, \frac{1}{137}\sqrt{2442}e^{16}, \frac{1}{137}\sqrt{2886}e^{18}$	$(\frac{7}{137}, -\frac{2}{137}, -\frac{15}{137}, -\frac{15}{137}, \frac{56}{137}, \frac{5}{137}, \frac{30}{137}, \frac{12}{137}, \frac{19}{137})$ $+\frac{2}{137}\sqrt{703}e^5 \otimes e_9 + \frac{9}{137}\sqrt{74}e^1 \otimes e_7$	{123458, 1258, 13469, 169, 236789, 357}
9421:1	$0, 0, 0, 0, 0, \frac{4}{2429}\sqrt{27326}e^{12}, \frac{1}{2429}\sqrt{178670}e^{34}, \frac{4}{2429}\sqrt{64111}e^{16}, \frac{1}{2429}\sqrt{1847658}e^{18}$	$(\frac{305}{2429}, -\frac{746}{2429}, \frac{170}{2429}, \frac{170}{2429}, \frac{1220}{2429}, -\frac{63}{347}, \frac{340}{2429}, -\frac{136}{2429}, \frac{169}{2429})$ $+\frac{1}{2429}\sqrt{2028430}e^5 \otimes e_9 + \frac{1}{2429}\sqrt{2541318}e^1 \otimes e_2$	{13458, 13578, 158, 2345, 2357, 25}
9421:1	$0, 0, 0, 0, 0, \frac{6}{599}\sqrt{466}e^{12}, \frac{2}{599}\sqrt{28426}e^{34}, \frac{4}{599}\sqrt{1398}e^{16}, \frac{6}{599}\sqrt{466}e^{18}$	$(\frac{12}{599}, \frac{54}{599}, \frac{183}{599}, -\frac{283}{599}, \frac{366}{599}, \frac{66}{599}, -\frac{100}{599}, \frac{78}{599}, \frac{90}{599})$ $+\frac{14}{599}\sqrt{1398}e^5 \otimes e_7 + \frac{466}{599}e^3 \otimes e_4$	{12378, 12478, 13679, 14679, 236789, 246789, 37, 47}
9421:1	$0, 0, 0, 0, 0, \frac{16}{741}\sqrt{231}e^{12}, \frac{8}{741}\sqrt{5434}e^{34}, \frac{8}{247}\sqrt{110}e^{16}, \frac{8}{247}\sqrt{638}e^{18}$	$(-\frac{43}{247}, \frac{59}{247}, \frac{2}{3}, -\frac{112}{741}, \frac{45}{247}, \frac{16}{741}, \frac{382}{741}, -\frac{27}{247}, -\frac{70}{247})$ $+\frac{16}{741}\sqrt{3333}e^3 \otimes e_9$	{1245679, 124679, 12569, 1269, 13458, 1348, 13578, 1378, 234, 2345, 2357, 237, 456789, 46789, 5689, 689}
9421:1	$0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2139}e^{12}, \frac{4}{193}\sqrt{138}e^{34}, \frac{4}{193}\sqrt{138}e^{16}, \frac{2}{193}\sqrt{2139}e^{18}$	$(-\frac{46}{193}, \frac{93}{193}, \frac{85}{193}, -\frac{53}{193}, \frac{24}{193}, \frac{47}{193}, \frac{32}{193}, \frac{1}{193}, -\frac{45}{193})$ $+\frac{138}{193}e^3 \otimes e_4 + \frac{20}{193}\sqrt{69}e^2 \otimes e_9$	{123578, 12378, 124578, 12478, 135679, 13679, 145679, 14679}
9421:1	$0, 0, 0, 0, 0, \frac{8}{907}\sqrt{1698}e^{12}, \frac{16}{907}\sqrt{849}e^{34}, \frac{2}{907}\sqrt{11037}e^{16}, \frac{8}{907}\sqrt{2830}e^{18}$	$(-\frac{178}{907}, \frac{352}{907}, \frac{384}{907}, -\frac{75}{907}, -\frac{214}{907}, \frac{174}{907}, \frac{309}{907}, -\frac{4}{907}, -\frac{182}{907})$ $+\frac{8}{907}\sqrt{93673}e^2 \otimes e_5 + \frac{3}{907}\sqrt{14433}e^3 \otimes e_9$	{12348, 12378, 145679, 1569, 246789, 2689, 345, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:1	$0, 0, 0, 0, 0, \frac{1}{185}\sqrt{2926}e^{12}, \frac{1}{555}\sqrt{49210}e^{34}, \frac{2}{555}\sqrt{8778}e^{16}, \frac{1}{185}\sqrt{2926}e^{18}$	$(\frac{22}{185}, -\frac{9}{185}, \frac{46}{555}, -\frac{113}{555}, -\frac{29}{185}, \frac{13}{185}, -\frac{67}{555}, \frac{7}{37}, \frac{57}{185})$ $+ \frac{1}{555}\sqrt{42294}e^3 \otimes e_5 + \frac{6}{185}\sqrt{266}e^1 \otimes e_7$	{12348, 1258, 13469, 1569, 236789, 2456789, 37, 457}
9421:1	$0, 0, 0, 0, 0, \frac{2}{5321}\sqrt{201189}e^{12}, \frac{6}{5321}\sqrt{79998}e^{34}, \frac{66}{5321}\sqrt{398}e^{16}, \frac{2}{5321}\sqrt{887142}e^{18}$	$(\frac{303}{5321}, -\frac{891}{5321}, \frac{1212}{5321}, -\frac{43}{313}, \frac{1675}{5321}, -\frac{588}{5321}, \frac{481}{5321}, -\frac{285}{5321}, \frac{18}{5321})$ $+ \frac{120}{5321}\sqrt{199}e^5 \otimes e_7 + \frac{2}{5321}\sqrt{1016691}e^1 \otimes e_2 + \frac{2}{5321}\sqrt{1159971}e^3 \otimes e_9$	{13458, 1378, 2345, 237}
9421:1	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{466}e^{12}, \frac{1}{183}\sqrt{28426}e^{34}, \frac{2}{183}\sqrt{1398}e^{16}, \frac{1}{61}\sqrt{466}e^{18}$	$(\frac{2}{61}, \frac{9}{61}, -\frac{25}{183}, -\frac{25}{183}, 1, \frac{11}{61}, -\frac{50}{183}, \frac{13}{61}, \frac{15}{61})$ $+ \frac{7}{183}\sqrt{1398}e^5 \otimes e_7$	{123458, 12378, 1258, 134569, 13679, 1569, 2345689, 236789, 25689, 345, 37, 5}
9421:1	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{2886}e^{12}, \frac{1}{137}\sqrt{2442}e^{34}, \frac{1}{137}\sqrt{2442}e^{16}, \frac{2}{137}\sqrt{370}e^{18}$	$(\frac{7}{137}, \frac{17}{137}, -\frac{15}{137}, -\frac{15}{137}, -\frac{20}{137}, \frac{24}{137}, -\frac{30}{137}, \frac{31}{137}, \frac{38}{137})$ $+ \frac{2}{137}\sqrt{703}e^2 \otimes e_5 + \frac{9}{137}\sqrt{74}e^1 \otimes e_7$	{12348, 128, 134569, 1569, 236789, 357}
9421:1	$0, 0, 0, 0, 0, \frac{16}{1093}\sqrt{231}e^{12}, \frac{24}{1093}\sqrt{110}e^{34}, \frac{8}{1093}\sqrt{5434}e^{16}, \frac{24}{1093}\sqrt{638}e^{18}$	$(\frac{275}{1093}, -\frac{429}{1093}, \frac{442}{1093}, -\frac{262}{1093}, \frac{135}{1093}, -\frac{154}{1093}, \frac{180}{1093}, \frac{121}{1093}, \frac{396}{1093})$ $+ \frac{16}{1093}\sqrt{3333}e^1 \otimes e_2 + \frac{704}{1093}e^3 \otimes e_4$	{13578, 1378, 14578, 1478, 2357, 237, 2457, 247}
9421:1	$0, 0, 0, 0, 0, \frac{20}{259}\sqrt{11}e^{12}, \frac{4}{259}\sqrt{506}e^{34}, \frac{4}{259}\sqrt{561}e^{16}, \frac{4}{259}\sqrt{858}e^{18}$	$(-\frac{1}{259}, \frac{1}{37}, \frac{92}{259}, -\frac{2}{37}, -\frac{89}{259}, \frac{6}{259}, \frac{78}{259}, \frac{5}{259}, \frac{4}{259})$ $+ \frac{44}{259}\sqrt{11}e^1 \otimes e_5 + \frac{4}{259}\sqrt{1166}e^3 \otimes e_9$	{12348, 12378, 14679, 169, 2456789, 25689, 345, 357}
9421:1	$0, 0, 0, 0, 0, \frac{8}{687}\sqrt{843}e^{12}, \frac{1}{687}\sqrt{128698}e^{34}, \frac{1}{229}\sqrt{1686}e^{16}, \frac{8}{687}\sqrt{843}e^{18}$	$(-\frac{46}{229}, \frac{96}{229}, \frac{155}{687}, -\frac{148}{687}, \frac{27}{229}, \frac{50}{229}, \frac{7}{687}, \frac{4}{229}, -\frac{42}{229})$ $+ \frac{1}{687}\sqrt{170286}e^2 \otimes e_7 + \frac{1}{687}\sqrt{170286}e^3 \otimes e_9$	{123458, 12348, 145679, 14679, 25689, 2689, 357, 37}
9421:1	$0, 0, 0, 0, 0, \frac{24}{539}\sqrt{95}e^{12}, \frac{24}{539}\sqrt{114}e^{34}, \frac{6}{539}\sqrt{437}e^{16}, \frac{24}{539}\sqrt{95}e^{18}$	$(-\frac{114}{539}, \frac{240}{539}, -\frac{27}{539}, -\frac{27}{539}, \frac{288}{539}, \frac{18}{539}, -\frac{54}{539}, \frac{12}{539}, -\frac{102}{539})$ $+ \frac{6}{539}\sqrt{4161}e^5 \otimes e_7 + \frac{6}{539}\sqrt{4769}e^2 \otimes e_9$	{123458, 12378, 1258, 134569, 13679, 1569}
9421:1	$0, 0, 0, 0, 0, \frac{24}{539}\sqrt{95}e^{12}, \frac{24}{539}\sqrt{114}e^{34}, \frac{6}{539}\sqrt{437}e^{16}, \frac{24}{539}\sqrt{95}e^{18}$	$(-\frac{114}{539}, \frac{240}{539}, \frac{192}{539}, -\frac{27}{539}, -\frac{150}{539}, \frac{18}{539}, \frac{15}{539}, \frac{12}{539}, -\frac{102}{539})$ $+ \frac{6}{539}\sqrt{4161}e^3 \otimes e_5 + \frac{6}{539}\sqrt{4769}e^2 \otimes e_9$	{12348, 12378, 124578, 1258, 13469, 13679, 145679, 1569}
9421:1	$0, 0, 0, 0, 0, \frac{3}{158}\sqrt{395}e^{12}, \frac{3}{79}\sqrt{15}e^{34}, \frac{12}{79}\sqrt{5}e^{16}, \frac{3}{158}\sqrt{395}e^{18}$	$(-\frac{15}{158}, \frac{81}{316}, \frac{6}{79}, \frac{6}{79}, -\frac{30}{79}, \frac{51}{316}, \frac{12}{79}, \frac{21}{316}, -\frac{9}{316})$ $+ \frac{3}{79}\sqrt{155}e^2 \otimes e_9 + \frac{3}{79}\sqrt{195}e^1 \otimes e_5$	{12348, 12378, 128, 13469, 13679, 169}
9421:1	$0, 0, 0, 0, 0, \frac{2}{2433}\sqrt{45822}e^{12}, \frac{1}{2433}\sqrt{1769602}e^{34}, \frac{2}{811}\sqrt{5455}e^{16}, \frac{2}{811}\sqrt{31639}e^{18}$	$(-\frac{86}{811}, \frac{118}{811}, \frac{671}{2433}, -\frac{541}{2433}, \frac{407}{811}, \frac{32}{811}, \frac{130}{2433}, -\frac{54}{811}, -\frac{140}{811})$ $+ \frac{1}{2433}\sqrt{2075082}e^5 \otimes e_7 + \frac{2}{2433}\sqrt{661146}e^3 \otimes e_9$	{124679, 12569, 13458, 1378, 2345, 237, 46789, 5689}
9421:1	$0, 0, 0, 0, 0, \frac{2}{1735}\sqrt{16282}e^{12}, \frac{2}{5205}\sqrt{779210}e^{34}, \frac{8}{5205}\sqrt{61639}e^{16}, \frac{2}{5205}\sqrt{1035070}e^{18}$	$(\frac{932}{5205}, -\frac{1394}{5205}, \frac{67}{347}, -\frac{1321}{5205}, \frac{134}{347}, -\frac{154}{1735}, -\frac{316}{5205}, \frac{94}{1041}, \frac{1402}{5205})$ $+ \frac{2326}{5205}e^3 \otimes e_4 + \frac{2}{5205}\sqrt{1742174}e^5 \otimes e_7 + \frac{8}{5205}\sqrt{147701}e^1 \otimes e_2$	{1378, 1478, 237, 247}
9421:1	$0, 0, 0, 0, 0, \frac{2}{227}\sqrt{741}e^{12}, \frac{6}{227}\sqrt{182}e^{34}, \frac{6}{227}\sqrt{182}e^{16}, \frac{2}{227}\sqrt{3198}e^{18}$	$(\frac{21}{227}, -\frac{57}{227}, \frac{84}{227}, -\frac{17}{227}, \frac{25}{227}, -\frac{36}{227}, \frac{67}{227}, -\frac{15}{227}, \frac{6}{227})$ $+ \frac{2}{227}\sqrt{3939}e^1 \otimes e_2 + \frac{2}{227}\sqrt{3939}e^3 \otimes e_9$	{13458, 1348, 13578, 1378, 234, 2345, 2357, 237}
9421:1	$0, 0, 0, 0, 0, \frac{8}{247}\sqrt{638}e^{12}, \frac{8}{741}\sqrt{5434}e^{34}, \frac{8}{247}\sqrt{110}e^{16}, \frac{16}{741}\sqrt{231}e^{18}$	$(-\frac{43}{247}, \frac{160}{247}, -\frac{112}{741}, -\frac{112}{741}, \frac{45}{247}, \frac{9}{19}, -\frac{224}{741}, \frac{74}{247}, \frac{31}{247})$ $+ \frac{16}{741}\sqrt{3333}e^2 \otimes e_7$	{1234589, 123489, 12589, 1289, 13567, 1367, 234568, 23468, 2568, 268, 3579, 379}
9421:2	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{7458}e^{12}, \frac{1}{143}\sqrt{2486}e^{13}, \frac{2}{143}\sqrt{2486}e^{16}, \frac{1}{143}\sqrt{7458}e^{18}$	$(\frac{2}{13}, -\frac{7}{143}, \frac{15}{143}, -\frac{7}{11}, \frac{2}{11}, \frac{15}{143}, \frac{37}{143}, \frac{37}{143}, \frac{59}{143})$ $+ \frac{3}{143}\sqrt{2938}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 13569, 1369, 15679, 1679, 23456789, 2346789, 245689, 24689, 3457, 347, 4, 45}
9421:2	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{3}e^{13}, \frac{3}{13}\sqrt{2}e^{16}, \frac{3}{13}\sqrt{5}e^{18}$	$(-\frac{3}{13}, \frac{6}{13}, \frac{3}{13}, \frac{6}{13}, -\frac{3}{13}, \frac{3}{13}, 0, 0, -\frac{3}{13})$ $+ \frac{3}{13}\sqrt{14}e^2 \otimes e_9 + \frac{9}{13}e^4 \otimes e_5$	{123478, 123578, 1248, 1258, 134679, 135679, 1469, 1569}
9421:2	$0, 0, 0, 0, 0, \frac{8}{781}\sqrt{2001}e^{12}, \frac{56}{781}\sqrt{29}e^{13}, \frac{4}{781}\sqrt{6989}e^{16}, \frac{4}{781}\sqrt{4321}e^{18}$	$(\frac{57}{781}, \frac{56}{781}, -\frac{175}{781}, -\frac{16}{71}, \frac{78}{781}, \frac{113}{781}, -\frac{118}{781}, \frac{170}{781}, \frac{227}{781})$ $+ \frac{4}{781}\sqrt{13021}e^1 \otimes e_3 + \frac{4}{781}\sqrt{7366}e^2 \otimes e_4$	{1258, 128, 14569, 1469, 235689, 23689, 34, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:2	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{1}{89}\sqrt{1763}e^{13}, \frac{2}{89}\sqrt{615}e^{16}, \frac{3}{89}\sqrt{205}e^{18}$	$(\frac{15}{89}, -\frac{12}{89}, -\frac{26}{89}, \frac{31}{89}, -\frac{10}{89}, \frac{3}{89}, -\frac{11}{89}, \frac{18}{89}, \frac{33}{89})$ $+\frac{2}{89}\sqrt{1189}e^1 \otimes e_3 + \frac{41}{89}e^4 \otimes e_5$	{1248, 1258, 1469, 1569, 234689, 235689, 34, 35}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1403}\sqrt{439206}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13}, \frac{3}{1403}\sqrt{6186}e^{16}, \frac{14}{1403}\sqrt{1031}e^{18}$	$(-\frac{169}{1403}, \frac{559}{1403}, \frac{550}{1403}, -\frac{472}{1403}, -\frac{481}{1403}, \frac{390}{1403}, \frac{381}{1403}, \frac{221}{1403}, \frac{52}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^3 \otimes e_5 + \frac{2}{1403}\sqrt{320641}e^2 \otimes e_4$	{123, 1257, 134689, 1456789, 23679, 2569, 3478, 458}
9421:2	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1221}e^{12}, \frac{1}{68}\sqrt{814}e^{13}, \frac{1}{34}\sqrt{407}e^{16}, \frac{1}{68}\sqrt{1221}e^{18}$	$(\frac{11}{68}, -\frac{15}{136}, -\frac{13}{34}, \frac{11}{34}, \frac{9}{68}, \frac{7}{68}, -\frac{15}{68}, \frac{29}{136}, \frac{3}{8})$ $+\frac{1}{34}\sqrt{851}e^1 \otimes e_3 + \frac{1}{68}\sqrt{962}e^4 \otimes e_7$	{12458, 1248, 14569, 1469, 2345689, 234689, 34, 345}
9421:2	$0, 0, 0, 0, 0, \frac{38}{4137}\sqrt{607}e^{12}, \frac{38}{4137}\sqrt{1246}e^{13}, \frac{76}{4137}\sqrt{42}e^{16}, \frac{38}{4137}\sqrt{838}e^{18}$	$(\frac{5}{197}, -\frac{617}{4137}, \frac{20}{197}, \frac{263}{4137}, \frac{1247}{4137}, -\frac{512}{4137}, \frac{25}{197}, -\frac{407}{4137}, -\frac{302}{4137})$ $+\frac{38}{4137}\sqrt{1403}e^3 \otimes e_9 + \frac{38}{4137}\sqrt{1487}e^1 \otimes e_2 + \frac{76}{4137}\sqrt{246}e^5 \otimes e_7$	{13458, 1358, 2347, 237}
9421:2	$0, 0, 0, 0, 0, \frac{4}{1531}\sqrt{15603}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13}, \frac{13}{1531}\sqrt{1486}e^{16}, \frac{15}{1531}\sqrt{1486}e^{18}$	$(\frac{281}{1531}, -\frac{462}{1531}, \frac{310}{1531}, -\frac{433}{1531}, \frac{156}{1531}, -\frac{181}{1531}, \frac{591}{1531}, \frac{100}{1531}, \frac{381}{1531})$ $+\frac{1}{1531}\sqrt{875254}e^3 \otimes e_4 + \frac{2}{1531}\sqrt{291999}e^1 \otimes e_2$	{1358, 138, 14578, 1478, 2357, 237, 24, 245}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{377274}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13}, \frac{3}{1699}\sqrt{30470}e^{16}, \frac{6}{1699}\sqrt{8587}e^{18}$	$(-\frac{289}{1699}, \frac{367}{1699}, \frac{331}{1699}, \frac{873}{1699}, \frac{140}{1699}, \frac{78}{1699}, \frac{42}{1699}, \frac{211}{1699}, -\frac{500}{1699})$ $+\frac{1}{1699}\sqrt{1218246}e^4 \otimes e_7 + \frac{2}{1699}\sqrt{343203}e^3 \otimes e_9$	{1234568, 123468, 1579, 179, 24589, 2489, 3567, 367}
9421:2	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{2}{527}\sqrt{45633}e^{13}, \frac{4}{527}\sqrt{1722}e^{16}, \frac{14}{527}\sqrt{861}e^{18}$	$(-\frac{122}{527}, \frac{160}{527}, \frac{368}{527}, \frac{87}{527}, \frac{87}{527}, \frac{38}{527}, \frac{246}{527}, -\frac{84}{527}, -\frac{206}{527})$ $+\frac{4}{527}\sqrt{31570}e^3 \otimes e_9$	{1234568, 123468, 12368, 14579, 1479, 179, 24589, 2489, 289, 34567, 3467, 367}
9421:2	$0, 0, 0, 0, 0, \frac{1}{221}\sqrt{3243}e^{12}, \frac{6}{221}\sqrt{138}e^{13}, \frac{12}{221}\sqrt{23}e^{16}, \frac{2}{221}\sqrt{1794}e^{18}$	$(\frac{3}{34}, -\frac{99}{442}, -\frac{37}{442}, \frac{70}{221}, \frac{6}{221}, -\frac{30}{221}, \frac{1}{221}, -\frac{21}{442}, \frac{9}{221})$ $+\frac{11}{221}\sqrt{69}e^5 \otimes e_9 + \frac{1}{221}\sqrt{12489}e^1 \otimes e_2 + \frac{3}{221}\sqrt{805}e^4 \otimes e_7$	{13458, 1578, 2357, 245}
9421:2	$0, 0, 0, 0, 0, \frac{3}{752}\sqrt{6573}e^{12}, \frac{63}{752}\sqrt{2}e^{13}, \frac{15}{752}\sqrt{210}e^{16}, \frac{3}{752}\sqrt{6573}e^{18}$	$(-\frac{63}{752}, \frac{333}{1504}, \frac{51}{752}, -\frac{63}{188}, \frac{177}{752}, \frac{207}{1504}, -\frac{3}{188}, \frac{81}{1504}, -\frac{45}{1504})$ $+\frac{27}{376}\sqrt{42}e^1 \otimes e_4 + \frac{3}{752}\sqrt{10542}e^2 \otimes e_9 + \frac{63}{752}\sqrt{10}e^5 \otimes e_7$	{12358, 1278, 13569, 1679}
9421:2	$0, 0, 0, 0, 0, \frac{18}{1259}\sqrt{895}e^{12}, \frac{5}{1259}\sqrt{11814}e^{13}, \frac{2}{1259}\sqrt{2685}e^{16}, \frac{1}{1259}\sqrt{191530}e^{18}$	$(-\frac{281}{1259}, \frac{596}{1259}, -\frac{18}{1259}, \frac{648}{1259}, \frac{147}{1259}, \frac{315}{1259}, -\frac{299}{1259}, \frac{34}{1259}, -\frac{247}{1259})$ $+\frac{1}{1259}\sqrt{1093690}e^2 \otimes e_7 + \frac{1}{1259}\sqrt{896790}e^4 \otimes e_9$	{12359, 1239, 145678, 14678, 2456, 246, 35789, 3789}
9421:2	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{128}\sqrt{16626}e^{13}, \frac{1}{64}\sqrt{815}e^{16}, \frac{1}{128}\sqrt{2445}e^{18}$	$(-\frac{5}{128}, \frac{57}{256}, \frac{77}{128}, -\frac{43}{64}, \frac{21}{128}, \frac{47}{256}, \frac{16}{16}, \frac{37}{256}, \frac{27}{256})$ $+\frac{1}{128}\sqrt{34882}e^3 \otimes e_4$	{1235689, 123689, 12456789, 1246789, 13, 135, 1457, 147, 23578, 2378, 2458, 248, 35679, 3679, 4569, 469}
9421:2	$0, 0, 0, 0, 0, \frac{7}{407}\sqrt{861}e^{12}, \frac{1}{407}\sqrt{45633}e^{13}, \frac{2}{407}\sqrt{1722}e^{16}, \frac{1}{407}\sqrt{20951}e^{18}$	$(-\frac{61}{407}, \frac{190}{407}, -\frac{36}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{129}{407}, -\frac{97}{407}, \frac{68}{407}, \frac{7}{407})$ $+\frac{287}{407}e^4 \otimes e_5 + \frac{2}{407}\sqrt{31570}e^2 \otimes e_7$	{1234, 1235, 146789, 156789, 2469, 2569, 3478, 3578}
9421:2	$0, 0, 0, 0, 0, \frac{6}{451}\sqrt{435}e^{12}, \frac{18}{451}\sqrt{43}e^{13}, \frac{12}{451}\sqrt{102}e^{16}, \frac{6}{451}\sqrt{435}e^{18}$	$(-\frac{18}{451}, \frac{6}{41}, -\frac{72}{451}, \frac{39}{451}, \frac{39}{451}, \frac{48}{451}, -\frac{90}{451}, \frac{30}{451}, \frac{12}{451})$ $+\frac{12}{451}\sqrt{129}e^2 \otimes e_9 + \frac{72}{451}\sqrt{5}e^1 \otimes e_3$	{12458, 1248, 128, 14569, 1469, 169}
9421:2	$0, 0, 0, 0, 0, \frac{17}{64}e^{12}, \frac{1}{128}\sqrt{1870}e^{13}, \frac{1}{32}\sqrt{51}e^{16}, \frac{1}{128}\sqrt{2278}e^{18}$	$(\frac{15}{256}, -\frac{53}{256}, \frac{15}{64}, -\frac{7}{128}, \frac{27}{128}, -\frac{19}{128}, \frac{75}{256}, -\frac{23}{256}, -\frac{1}{32})$ $+\frac{17}{64}e^5 \otimes e_4 + \frac{1}{128}\sqrt{3230}e^3 \otimes e_9 + \frac{1}{128}\sqrt{3638}e^1 \otimes e_2$	{1348, 1358, 2347, 2357}
9421:2	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{39}e^{12}, \frac{2}{29}\sqrt{65}e^{13}, \frac{4}{29}\sqrt{26}e^{16}, \frac{6}{29}\sqrt{13}e^{18}$	$(\frac{10}{29}, -\frac{16}{29}, 0, \frac{5}{29}, \frac{5}{29}, -\frac{6}{29}, \frac{10}{29}, \frac{4}{29}, \frac{14}{29})$ $+\frac{4}{29}\sqrt{78}e^1 \otimes e_2$	{13458, 1348, 138, 14578, 1478, 178, 2, 23457, 2347, 237, 24, 245}
9421:2	$0, 0, 0, 0, 0, \frac{220}{677}e^{12}, \frac{40}{677}\sqrt{38}e^{13}, \frac{20}{677}\sqrt{197}e^{16}, \frac{40}{677}\sqrt{57}e^{18}$	$(\frac{45}{677}, -\frac{55}{677}, -\frac{155}{677}, \frac{90}{677}, \frac{280}{677}, -\frac{10}{677}, -\frac{110}{677}, \frac{35}{677}, \frac{80}{677})$ $+\frac{20}{677}\sqrt{214}e^5 \otimes e_9 + \frac{20}{677}\sqrt{373}e^1 \otimes e_3 + \frac{40}{677}\sqrt{6}e^4 \otimes e_7$	{12458, 1469, 234689, 345}
9421:2	$0, 0, 0, 0, 0, \frac{3}{239}\sqrt{435}e^{12}, \frac{9}{239}\sqrt{43}e^{13}, \frac{6}{239}\sqrt{102}e^{16}, \frac{3}{239}\sqrt{435}e^{18}$	$(-\frac{9}{239}, \frac{33}{239}, -\frac{36}{239}, \frac{6}{239}, \frac{33}{239}, \frac{24}{239}, -\frac{45}{239}, \frac{15}{239}, \frac{6}{239})$ $+\frac{27}{239}e^5 \otimes e_4 + \frac{36}{239}\sqrt{5}e^1 \otimes e_3 + \frac{6}{239}\sqrt{129}e^2 \otimes e_9$	{1248, 1258, 1469, 1569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:2	$0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30}e^{12}, \frac{9}{38}\sqrt{2}e^{13}, \frac{3}{38}\sqrt{3}e^{16}, \frac{3}{38}\sqrt{30}e^{18}$	$(-\frac{9}{38}, \frac{9}{19}, \frac{33}{76}, -\frac{21}{76}, \frac{9}{76}, \frac{9}{38}, \frac{15}{76}, 0, -\frac{9}{38})$ $+\frac{3}{38}\sqrt{111}e^2 \otimes e_9 + \frac{9}{38}\sqrt{10}e^3 \otimes e_4$	{12358, 1238, 124578, 12478, 13569, 1369, 145679, 14679}
9421:2	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109}e^{12}, \frac{1}{109}\sqrt{703}e^{13}, \frac{4}{109}\sqrt{111}e^{16}, \frac{1}{109}\sqrt{1073}e^{18}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, -\frac{8}{109}, \frac{29}{109}, \frac{15}{109}, -\frac{27}{109}, \frac{20}{109}, \frac{25}{109})$ $+\frac{2}{109}\sqrt{518}e^2 \otimes e_7 + \frac{2}{109}\sqrt{962}e^1 \otimes e_3 + \frac{37}{109}e^5 \otimes e_4$	{1248, 1258, 234689, 235689}
9421:2	$0, 0, 0, 0, 0, \frac{34}{111}e^{12}, \frac{1}{111}\sqrt{1870}e^{13}, \frac{4}{111}\sqrt{51}e^{16}, \frac{1}{111}\sqrt{2278}e^{18}$	$(\frac{5}{74}, -\frac{53}{222}, \frac{10}{37}, \frac{10}{111}, \frac{10}{111}, -\frac{19}{111}, \frac{25}{74}, -\frac{23}{111}, -\frac{4}{111})$ $+\frac{1}{111}\sqrt{3230}e^3 \otimes e_9 + \frac{1}{111}\sqrt{3638}e^1 \otimes e_2$	{13458, 1348, 138, 23457, 2347, 237}
9421:2	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{2}{181}\sqrt{703}e^{13}, \frac{8}{181}\sqrt{111}e^{16}, \frac{2}{181}\sqrt{1073}e^{18}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, -\frac{54}{181}, \frac{40}{181}, \frac{50}{181})$ $+\frac{4}{181}\sqrt{518}e^2 \otimes e_7 + \frac{4}{181}\sqrt{962}e^1 \otimes e_3$	{12458, 1248, 128, 2345689, 234689, 23689}
9421:2	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{53}e^{13}, \frac{2}{33}\sqrt{53}e^{16}, \frac{1}{33}\sqrt{159}e^{18}$	$(\frac{1}{33}, \frac{5}{33}, \frac{2}{11}, 1, -\frac{20}{33}, \frac{2}{11}, \frac{7}{33}, \frac{7}{33}, \frac{8}{33})$ $+\frac{53}{33}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 13469, 13569, 14679, 15679, 2346789, 2356789, 24689, 25689, 347, 357, 4, 5}
9421:2	$0, 0, 0, 0, 0, \frac{4}{1531}\sqrt{15603}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13}, \frac{13}{1531}\sqrt{1486}e^{16}, \frac{15}{1531}\sqrt{1486}e^{18}$	$(\frac{281}{1531}, -\frac{462}{1531}, -\frac{279}{1531}, \frac{745}{1531}, \frac{156}{1531}, -\frac{181}{1531}, \frac{2}{1531}, \frac{100}{1531}, \frac{381}{1531})$ $+\frac{1}{1531}\sqrt{875254}e^4 \otimes e_7 + \frac{2}{1531}\sqrt{291999}e^1 \otimes e_2$	{13458, 1348, 1578, 178, 2357, 237, 24, 245}
9421:2	$0, 0, 0, 0, 0, \frac{6}{137}\sqrt{205}e^{12}, \frac{2}{137}\sqrt{1763}e^{13}, \frac{4}{137}\sqrt{615}e^{16}, \frac{6}{137}\sqrt{205}e^{18}$	$(\frac{30}{137}, -\frac{24}{137}, -\frac{52}{137}, \frac{21}{137}, \frac{21}{137}, \frac{6}{137}, -\frac{22}{137}, \frac{36}{137}, \frac{66}{137})$ $+\frac{4}{137}\sqrt{1189}e^1 \otimes e_3$	{12458, 1248, 128, 14569, 1469, 169, 2345689, 234689, 23689, 3, 34, 345}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{2}{1181}\sqrt{28551}e^{13}, \frac{1}{1181}\sqrt{178674}e^{16}, \frac{1}{1181}\sqrt{190954}e^{18}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, \frac{108}{1181}, \frac{417}{1181}, \frac{66}{1181}, -\frac{263}{1181}, \frac{88}{1181}, \frac{110}{1181})$ $+\frac{1}{1181}\sqrt{113590}e^2 \otimes e_7 + \frac{1}{1181}\sqrt{189726}e^5 \otimes e_9 + \frac{1}{1181}\sqrt{355506}e^1 \otimes e_3$	{12458, 1258, 234689, 23689}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1629}\sqrt{255670}e^{12}, \frac{1}{1629}\sqrt{17966}e^{13}, \frac{4}{1629}\sqrt{29713}e^{16}, \frac{1}{543}\sqrt{73246}e^{18}$	$(\frac{26}{1629}, \frac{5}{1629}, \frac{59}{543}, \frac{86}{181}, -\frac{665}{1629}, \frac{31}{1629}, \frac{203}{1629}, \frac{19}{543}, \frac{83}{1629})$ $+\frac{1}{543}\sqrt{131290}e^1 \otimes e_5 + \frac{4}{1629}\sqrt{50443}e^4 \otimes e_9$	{12348, 12478, 1369, 1679, 2356789, 25689, 3457, 45}
9421:2	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{20951}e^{12}, \frac{1}{407}\sqrt{45633}e^{13}, \frac{2}{407}\sqrt{1722}e^{16}, \frac{7}{407}\sqrt{861}e^{18}$	$(-\frac{61}{407}, \frac{80}{407}, \frac{184}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{19}{407}, \frac{123}{407}, -\frac{42}{407}, -\frac{103}{407})$ $+\frac{287}{407}e^4 \otimes e_5 + \frac{2}{407}\sqrt{31570}e^3 \otimes e_9$	{123468, 123568, 1479, 1579, 2489, 2589, 3467, 3567}
9421:2	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{128}\sqrt{16626}e^{13}, \frac{1}{64}\sqrt{815}e^{16}, \frac{1}{128}\sqrt{2445}e^{18}$	$(-\frac{5}{128}, \frac{57}{256}, -\frac{15}{64}, 1, \frac{21}{128}, \frac{47}{256}, -\frac{35}{128}, \frac{37}{256}, \frac{27}{256})$ $+\frac{1}{128}\sqrt{34882}e^4 \otimes e_7$	{12345689, 1234689, 1256789, 126789, 134, 1345, 157, 17, 23578, 2378, 2458, 248, 35679, 3679, 4569, 469}
9421:2	$0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13}, \frac{3}{1403}\sqrt{6186}e^{16}, \frac{1}{1403}\sqrt{439206}e^{18}$	$(-\frac{169}{1403}, \frac{248}{1403}, -\frac{81}{1403}, \frac{781}{1403}, \frac{772}{1403}, \frac{79}{1403}, -\frac{250}{1403}, -\frac{90}{1403}, -\frac{259}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^4 \otimes e_7 + \frac{2}{1403}\sqrt{320641}e^5 \otimes e_9$	{1234568, 125678, 1349, 179, 23789, 2489, 3567, 456}
9421:2	$0, 0, 0, 0, 0, \frac{2}{177}\sqrt{7414}e^{12}, \frac{2}{531}\sqrt{14491}e^{13}, \frac{2}{531}\sqrt{15502}e^{16}, \frac{4}{531}\sqrt{1685}e^{18}$	$(-\frac{86}{531}, \frac{37}{59}, \frac{46}{177}, -\frac{341}{531}, \frac{95}{531}, \frac{247}{531}, \frac{52}{531}, \frac{161}{531}, \frac{25}{177})$ $+\frac{4}{531}\sqrt{36733}e^2 \otimes e_4$	{1235789, 123789, 12589, 1289, 134567, 13467, 1456, 146, 23568, 2368, 25678, 2678, 3459, 349, 4579, 479}
9421:2	$0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{3}e^{13}, \frac{6}{17}\sqrt{2}e^{16}, \frac{6}{17}\sqrt{5}e^{18}$	$(-\frac{6}{17}, \frac{12}{17}, \frac{6}{17}, \frac{3}{17}, \frac{3}{17}, \frac{6}{17}, 0, 0, -\frac{6}{17})$ $+\frac{6}{17}\sqrt{14}e^2 \otimes e_9$	{1234578, 123478, 12378, 12458, 1248, 128, 1345679, 134679, 13679, 14569, 1469, 169}
9421:2	$0, 0, 0, 0, 0, \frac{2}{1585}\sqrt{113163}e^{12}, \frac{1}{1585}\sqrt{327666}e^{13}, \frac{2}{1585}\sqrt{62493}e^{16}, \frac{4}{1585}\sqrt{6193}e^{18}$	$(-\frac{46}{1585}, \frac{80}{317}, -\frac{117}{1585}, -\frac{609}{1585}, \frac{174}{1585}, \frac{354}{1585}, -\frac{163}{1585}, \frac{308}{1585}, \frac{262}{1585})$ $+\frac{2}{1585}\sqrt{176782}e^2 \otimes e_7 + \frac{3}{1585}\sqrt{97962}e^1 \otimes e_4$	{12358, 1238, 15679, 1679, 245689, 24689, 3457, 347}
9421:2	$0, 0, 0, 0, 0, \frac{40}{677}\sqrt{57}e^{12}, \frac{40}{677}\sqrt{38}e^{13}, \frac{20}{677}\sqrt{197}e^{16}, \frac{220}{677}e^{18}$	$(\frac{45}{677}, \frac{52}{677}, -\frac{155}{677}, -\frac{148}{677}, \frac{90}{677}, \frac{97}{677}, -\frac{110}{677}, \frac{142}{677}, \frac{187}{677})$ $+\frac{20}{677}\sqrt{214}e^2 \otimes e_4 + \frac{20}{677}\sqrt{373}e^1 \otimes e_3 + \frac{40}{677}\sqrt{6}e^5 \otimes e_7$	{1258, 14569, 235689, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:2	$0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30}e^{12}, \frac{9}{38}\sqrt{2}e^{13}, \frac{3}{38}\sqrt{3}e^{16}, \frac{3}{38}\sqrt{30}e^{18}$	$(-\frac{9}{38}, \frac{9}{19}, \frac{3}{76}, \frac{39}{76}, \frac{9}{76}, \frac{9}{38}, -\frac{15}{76}, 0, -\frac{9}{38})$ $+\frac{3}{38}\sqrt{111}e^2 \otimes e_9 + \frac{9}{38}\sqrt{10}e^4 \otimes e_7$	{123458, 12348, 12578, 1278, 134569, 13469, 15679, 1679}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1403}\sqrt{439206}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13}, \frac{3}{1403}\sqrt{6186}e^{16}, \frac{14}{1403}\sqrt{1031}e^{18}$	$(-\frac{169}{1403}, \frac{559}{1403}, -\frac{81}{1403}, \frac{781}{1403}, -\frac{472}{1403}, \frac{390}{1403}, -\frac{250}{1403}, \frac{221}{1403}, \frac{52}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^4 \otimes e_7 + \frac{2}{1403}\sqrt{320641}e^2 \otimes e_5$	{1234, 127, 1345689, 156789, 23679, 2469, 3578, 458}
9421:2	$0, 0, 0, 0, 0, \frac{1}{1259}\sqrt{191530}e^{12}, \frac{5}{1259}\sqrt{11814}e^{13}, \frac{2}{1259}\sqrt{2685}e^{16}, \frac{18}{1259}\sqrt{895}e^{18}$	$(-\frac{281}{1259}, \frac{541}{1259}, \frac{593}{1259}, -\frac{354}{1259}, \frac{147}{1259}, \frac{260}{1259}, \frac{312}{1259}, -\frac{21}{1259}, -\frac{302}{1259})$ $+\frac{1}{1259}\sqrt{1093690}e^3 \otimes e_9 + \frac{2}{1259}\sqrt{896790}e^2 \otimes e_4$	{12579, 1279, 134568, 13468, 23567, 2367, 4589, 489}
9421:2	$0, 0, 0, 0, 0, \frac{1}{543}\sqrt{73246}e^{12}, \frac{1}{1629}\sqrt{17966}e^{13}, \frac{4}{1629}\sqrt{29713}e^{16}, \frac{1}{1629}\sqrt{255670}e^{18}$	$(\frac{26}{1629}, \frac{33}{181}, \frac{59}{543}, -\frac{665}{1629}, -\frac{394}{1629}, \frac{323}{1629}, \frac{203}{1629}, \frac{349}{1629}, \frac{125}{543})$ $+\frac{1}{543}\sqrt{131290}e^1 \otimes e_4 + \frac{4}{1629}\sqrt{50443}e^2 \otimes e_5$	{1238, 1278, 13569, 15679, 2346789, 24689, 3457, 45}
9421:2	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{39}e^{12}, \frac{1}{21}\sqrt{65}e^{13}, \frac{2}{21}\sqrt{26}e^{16}, \frac{1}{7}\sqrt{13}e^{18}$	$(\frac{5}{21}, -\frac{8}{21}, 0, \frac{3}{7}, -\frac{4}{21}, -\frac{1}{7}, \frac{5}{21}, \frac{2}{21}, \frac{1}{3})$ $+\frac{13}{21}e^4 \otimes e_5 + \frac{2}{21}\sqrt{78}e^1 \otimes e_2$	{1348, 1358, 1478, 1578, 2347, 2357, 24, 25}
9421:2	$0, 0, 0, 0, 0, \frac{4}{1585}\sqrt{6193}e^{12}, \frac{1}{1585}\sqrt{327666}e^{13}, \frac{2}{1585}\sqrt{62493}e^{16}, \frac{2}{1585}\sqrt{113163}e^{18}$	$(-\frac{46}{1585}, \frac{86}{1585}, \frac{511}{1585}, \frac{609}{1585}, \frac{174}{1585}, \frac{8}{317}, \frac{93}{317}, -\frac{6}{1585}, -\frac{52}{1585})$ $+\frac{2}{1585}\sqrt{176782}e^3 \otimes e_9 + \frac{3}{1585}\sqrt{97962}e^1 \otimes e_4$	{12358, 1238, 15679, 1679, 245689, 24689, 3457, 347}
9421:2	$0, 0, 0, 0, 0, \frac{12}{443}\sqrt{203}e^{12}, \frac{42}{443}\sqrt{3}e^{13}, \frac{6}{443}\sqrt{665}e^{16}, \frac{12}{443}\sqrt{203}e^{18}$	$(-\frac{42}{443}, \frac{111}{443}, \frac{69}{443}, -\frac{168}{443}, \frac{48}{443}, \frac{69}{443}, \frac{27}{443}, \frac{27}{443}, -\frac{15}{443})$ $+\frac{36}{443}\sqrt{42}e^1 \otimes e_4 + \frac{6}{443}\sqrt{1253}e^2 \otimes e_9$	{123578, 12378, 1258, 128, 135679, 13679, 1569, 169}
9421:2	$0, 0, 0, 0, 0, \frac{1}{221}\sqrt{3243}e^{12}, \frac{6}{221}\sqrt{138}e^{13}, \frac{12}{221}\sqrt{23}e^{16}, \frac{2}{221}\sqrt{1794}e^{18}$	$(\frac{3}{34}, -\frac{99}{442}, \frac{2}{13}, -\frac{35}{221}, \frac{6}{17}, -\frac{30}{221}, \frac{107}{442}, -\frac{21}{442}, \frac{9}{221})$ $+\frac{11}{221}\sqrt{69}e^5 \otimes e_9 + \frac{1}{221}\sqrt{12489}e^1 \otimes e_2 + \frac{3}{221}\sqrt{805}e^3 \otimes e_4$	{1358, 14578, 2357, 245}
9421:2	$0, 0, 0, 0, 0, \frac{12}{191}\sqrt{5}e^{12}, \frac{20}{191}\sqrt{21}e^{13}, \frac{2}{191}\sqrt{510}e^{16}, \frac{4}{191}\sqrt{130}e^{18}$	$(-\frac{34}{191}, \frac{113}{382}, \frac{69}{382}, -\frac{47}{382}, \frac{161}{382}, \frac{45}{382}, \frac{1}{382}, -\frac{23}{382}, -\frac{91}{382})$ $+\frac{10}{191}\sqrt{106}e^5 \otimes e_7 + \frac{2}{191}\sqrt{1510}e^2 \otimes e_4 + \frac{2}{191}\sqrt{2910}e^3 \otimes e_9$	{123568, 1479, 2589, 3467}
9421:2	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{210}e^{12}, \frac{3}{49}\sqrt{14}e^{13}, \frac{3}{49}\sqrt{42}e^{16}, \frac{1}{49}\sqrt{714}e^{18}$	$(\frac{6}{49}, -\frac{15}{49}, \frac{2}{49}, \frac{24}{49}, \frac{5}{49}, -\frac{9}{49}, \frac{8}{49}, -\frac{3}{49}, \frac{3}{49})$ $+\frac{1}{49}\sqrt{798}e^4 \otimes e_9 + \frac{5}{49}\sqrt{42}e^1 \otimes e_2$	{13458, 1348, 14578, 1478, 23457, 2347, 24, 245}
9421:2	$0, 0, 0, 0, 0, \frac{5}{32}\sqrt{3}e^{12}, \frac{1}{32}\sqrt{78}e^{13}, \frac{3}{16}\sqrt{2}e^{16}, \frac{5}{32}\sqrt{3}e^{18}$	$(-\frac{1}{32}, \frac{9}{64}, -\frac{1}{8}, \frac{3}{32}, -\frac{1}{16}, \frac{7}{64}, -\frac{5}{32}, \frac{5}{64}, \frac{3}{64})$ $+\frac{1}{16}\sqrt{21}e^2 \otimes e_9 + \frac{1}{16}\sqrt{30}e^1 \otimes e_3 + \frac{1}{32}\sqrt{30}e^5 \otimes e_7$	{1248, 128, 1469, 169}
9421:2	$0, 0, 0, 0, 0, \frac{6}{1699}\sqrt{8587}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13}, \frac{3}{1699}\sqrt{30470}e^{16}, \frac{1}{1699}\sqrt{377274}e^{18}$	$(-\frac{289}{1699}, \frac{780}{1699}, \frac{238}{1699}, -\frac{593}{1699}, \frac{140}{1699}, \frac{491}{1699}, -\frac{51}{1699}, \frac{202}{1699}, -\frac{87}{1699})$ $+\frac{1}{1699}\sqrt{1218246}e^3 \otimes e_4 + \frac{2}{1699}\sqrt{343203}e^2 \otimes e_7$	{123, 1235, 1456789, 146789, 24569, 2469, 3578, 378}
9421:2	$0, 0, 0, 0, 0, \frac{4}{781}\sqrt{4321}e^{12}, \frac{56}{781}\sqrt{29}e^{13}, \frac{4}{781}\sqrt{6989}e^{16}, \frac{8}{781}\sqrt{2001}e^{18}$	$(\frac{57}{781}, -\frac{1}{11}, -\frac{175}{781}, \frac{332}{781}, \frac{78}{781}, -\frac{14}{781}, -\frac{118}{781}, \frac{43}{781}, \frac{100}{781})$ $+\frac{4}{781}\sqrt{13021}e^1 \otimes e_3 + \frac{4}{781}\sqrt{7366}e^4 \otimes e_9$	{12458, 1248, 1569, 169, 235689, 23689, 34, 345}
9421:2	$0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{12}, \frac{2}{23}\sqrt{57}e^{13}, \frac{2}{115}\sqrt{399}e^{16}, \frac{3}{115}\sqrt{133}e^{18}$	$(-\frac{7}{115}, \frac{37}{230}, \frac{10}{230}, \frac{123}{230}, -\frac{91}{230}, \frac{1}{10}, \frac{9}{230}, \frac{9}{230}, -\frac{1}{46})$ $+\frac{1}{115}\sqrt{6099}e^3 \otimes e_5 + \frac{1}{115}\sqrt{6099}e^4 \otimes e_7$	{1234689, 1256789, 134, 157, 2378, 2458, 3679, 4569}
9421:2	$0, 0, 0, 0, 0, \frac{2}{1151}\sqrt{31610}e^{12}, \frac{2}{1151}\sqrt{28667}e^{13}, \frac{2}{1151}\sqrt{32918}e^{16}, \frac{2}{1151}\sqrt{31610}e^{18}$	$(\frac{24}{1151}, \frac{57}{1151}, -\frac{194}{1151}, \frac{161}{1151}, \frac{347}{1151}, \frac{81}{1151}, -\frac{170}{1151}, \frac{105}{1151}, \frac{129}{1151})$ $+\frac{10}{1151}\sqrt{2398}e^1 \otimes e_3 + \frac{2}{1151}\sqrt{27686}e^2 \otimes e_4 + \frac{2}{1151}\sqrt{27686}e^5 \otimes e_9$	{1258, 1469, 23689, 345}
9421:2	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{1}{71}\sqrt{1038}e^{13}, \frac{2}{355}\sqrt{4498}e^{16}, \frac{1}{355}\sqrt{13494}e^{18}$	$(\frac{26}{355}, \frac{3}{355}, \frac{91}{355}, -\frac{147}{355}, -\frac{82}{355}, \frac{29}{355}, \frac{117}{355}, \frac{11}{355}, \frac{81}{355})$ $+\frac{2}{355}\sqrt{10726}e^3 \otimes e_5 + \frac{3}{355}\sqrt{7266}e^1 \otimes e_4$	{1238, 12578, 1369, 15679, 2346789, 245689, 347, 45}
9421:2	$0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13}, \frac{3}{1403}\sqrt{6186}e^{16}, \frac{1}{1403}\sqrt{439206}e^{18}$	$(-\frac{169}{1403}, \frac{248}{1403}, \frac{550}{1403}, \frac{772}{1403}, -\frac{481}{1403}, \frac{79}{1403}, \frac{381}{1403}, -\frac{90}{1403}, -\frac{259}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^3 \otimes e_5 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_9$	{123468, 1245678, 139, 1579, 23789, 2589, 3467, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:2	$0, 0, 0, 0, 0, \frac{3}{980}\sqrt{6142}e^{12}, \frac{1}{490}\sqrt{42330}e^{13}, \frac{1}{980}\sqrt{8466}e^{16}, \frac{9}{490}\sqrt{83}e^{18}$	$(\frac{13}{140}, \frac{79}{490}, \frac{31}{1960}, -\frac{467}{1960}, \frac{711}{1960}, -\frac{67}{980}, \frac{213}{1960}, \frac{6}{245}, \frac{23}{196})$ $+ \frac{1}{980}\sqrt{146661}e^3 \otimes e_4 + \frac{1}{980}\sqrt{146661}e^5 \otimes e_7 + \frac{3}{490}\sqrt{4565}e^1 \otimes e_2$	{1358, 1478, 237, 245}
9421:2	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{890}e^{12}, \frac{1}{123}\sqrt{2047}e^{13}, \frac{1}{123}\sqrt{1513}e^{16}, \frac{2}{123}\sqrt{890}e^{18}$	$(-\frac{23}{123}, \frac{97}{246}, \frac{17}{82}, \frac{137}{246}, -\frac{27}{82}, \frac{17}{82}, \frac{5}{246}, \frac{5}{246}, -\frac{1}{6})$ $+ \frac{1}{123}\sqrt{9701}e^2 \otimes e_5 + \frac{1}{123}\sqrt{9701}e^4 \otimes e_9$	{123478, 1248, 135679, 1569, 23689, 26789, 345, 457}
9421:2	$0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{12}, \frac{2}{527}\sqrt{45633}e^{13}, \frac{4}{527}\sqrt{1722}e^{16}, \frac{2}{527}\sqrt{20951}e^{18}$	$(-\frac{122}{527}, \frac{380}{527}, -\frac{72}{527}, \frac{87}{527}, \frac{87}{527}, \frac{258}{527}, -\frac{194}{527}, \frac{8}{31}, \frac{14}{527})$ $+ \frac{4}{527}\sqrt{31570}e^2 \otimes e_7$	{123, 1234, 12345, 1456789, 146789, 16789, 24569, 2469, 269, 34578, 3478, 378}
9421:2	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{1}{71}\sqrt{1038}e^{13}, \frac{2}{355}\sqrt{4498}e^{16}, \frac{1}{355}\sqrt{13494}e^{18}$	$(\frac{26}{355}, \frac{3}{355}, -\frac{33}{355}, \frac{166}{355}, -\frac{147}{355}, \frac{29}{355}, -\frac{7}{355}, \frac{11}{71}, \frac{81}{355})$ $+ \frac{2}{355}\sqrt{10726}e^4 \otimes e_7 + \frac{3}{355}\sqrt{7266}e^1 \otimes e_5$	{12348, 1278, 13469, 1679, 2356789, 245689, 357, 45}
9421:2	$0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{14491}e^{13}, \frac{2}{531}\sqrt{15502}e^{16}, \frac{2}{177}\sqrt{7414}e^{18}$	$(-\frac{86}{531}, \frac{115}{531}, \frac{46}{177}, \frac{1}{531}, \frac{95}{531}, \frac{29}{531}, \frac{52}{531}, -\frac{19}{177}, -\frac{143}{531})$ $+ \frac{4}{531}\sqrt{36733}e^4 \otimes e_9$	{1235679, 123679, 12569, 1269, 134578, 13478, 1458, 148, 234, 2345, 2457, 247, 35689, 3689, 56789, 6789}
9421:2	$0, 0, 0, 0, 0, \frac{18}{451}\sqrt{61}e^{12}, \frac{2}{451}\sqrt{3111}e^{13}, \frac{4}{451}\sqrt{915}e^{16}, \frac{16}{451}\sqrt{61}e^{18}$	$(-\frac{25}{451}, \frac{8}{41}, -\frac{9}{451}, -\frac{147}{451}, \frac{135}{451}, \frac{63}{451}, -\frac{34}{451}, \frac{38}{451}, \frac{13}{451})$ $+ \frac{2}{451}\sqrt{5673}e^5 \otimes e_9 + \frac{2}{451}\sqrt{7747}e^2 \otimes e_7 + \frac{6}{451}\sqrt{1281}e^1 \otimes e_4$	{12358, 1679, 24689, 3457}
9421:2	$0, 0, 0, 0, 0, \frac{4}{191}\sqrt{130}e^{12}, \frac{20}{191}\sqrt{21}e^{13}, \frac{2}{191}\sqrt{510}e^{16}, \frac{12}{191}\sqrt{5}e^{18}$	$(-\frac{34}{191}, \frac{74}{191}, \frac{28}{191}, -\frac{52}{191}, \frac{52}{191}, \frac{40}{191}, -\frac{6}{191}, \frac{6}{191}, -\frac{28}{191})$ $+ \frac{10}{191}\sqrt{106}e^3 \otimes e_4 + \frac{2}{191}\sqrt{1510}e^5 \otimes e_9 + \frac{2}{191}\sqrt{2910}e^2 \otimes e_7$	{1235, 146789, 2469, 3578}
9421:2	$0, 0, 0, 0, 0, \frac{1}{253}\sqrt{114}e^{12}, \frac{1}{253}\sqrt{7410}e^{13}, \frac{3}{253}\sqrt{190}e^{16}, \frac{6}{253}\sqrt{133}e^{18}$	$(-\frac{13}{253}, \frac{19}{253}, \frac{37}{253}, -\frac{70}{253}, \frac{81}{253}, \frac{6}{253}, \frac{24}{253}, -\frac{7}{253}, -\frac{20}{253})$ $+ \frac{1}{253}\sqrt{6954}e^5 \otimes e_7 + \frac{2}{253}\sqrt{2337}e^3 \otimes e_9 + \frac{6}{253}\sqrt{285}e^1 \otimes e_4$	{12358, 1679, 245689, 347}
9421:3	$0, 0, 0, 0, 0, \frac{2}{963}\sqrt{7701}e^{12}, \frac{8}{963}\sqrt{2869}e^{13}, \frac{4}{963}\sqrt{8305}e^{26}, \frac{2}{963}\sqrt{30653}e^{28}$	$(-\frac{235}{963}, \frac{62}{321}, \frac{119}{963}, -\frac{61}{321}, \frac{40}{321}, -\frac{49}{963}, \frac{116}{963}, \frac{137}{963}, \frac{323}{963})$ $+ \frac{2}{963}\sqrt{45753}e^3 \otimes e_4 + \frac{4}{321}\sqrt{2265}e^2 \otimes e_7$	{12358, 1238, 1456789, 146789, 24569, 2469, 357, 37}
9421:3	$0, 0, 0, 0, 0, \frac{4}{967}\sqrt{15522}e^{12}, \frac{2}{967}\sqrt{13731}e^{13}, \frac{4}{967}\sqrt{10149}e^{26}, \frac{20}{967}\sqrt{199}e^{28}$	$(\frac{217}{967}, -\frac{4}{967}, -\frac{181}{967}, -\frac{402}{967}, \frac{105}{967}, \frac{213}{967}, \frac{36}{967}, \frac{209}{967}, \frac{205}{967})$ $+ \frac{26}{967}\sqrt{597}e^2 \otimes e_4 + \frac{2}{967}\sqrt{70645}e^1 \otimes e_3$	{1258, 128, 145689, 14689, 23569, 2369, 34, 345}
9421:3	$0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{105927}e^{12}, \frac{7}{2097}\sqrt{29614}e^{13}, \frac{2}{2097}\sqrt{43282}e^{26}, \frac{2}{2097}\sqrt{7973}e^{28}$	$(\frac{386}{2097}, -\frac{16}{699}, \frac{479}{2097}, -\frac{251}{699}, -\frac{220}{699}, \frac{338}{2097}, \frac{865}{2097}, \frac{290}{2097}, \frac{242}{2097})$ $+ \frac{1}{699}\sqrt{248302}e^1 \otimes e_4 + \frac{4}{2097}\sqrt{126429}e^3 \otimes e_5$	{1238, 12578, 13689, 156789, 234679, 24569, 347, 45}
9421:3	$0, 0, 0, 0, 0, \frac{76}{1193}\sqrt{7}e^{12}, \frac{6}{1193}\sqrt{6251}e^{13}, \frac{21}{1193}\sqrt{38}e^{26}, \frac{2}{1193}\sqrt{27398}e^{28}$	$(\frac{54}{1193}, -\frac{67}{1193}, \frac{119}{1193}, -\frac{212}{1193}, \frac{439}{1193}, -\frac{13}{1193}, \frac{173}{1193}, -\frac{80}{1193}, -\frac{147}{1193})$ $+ \frac{1}{1193}\sqrt{163058}e^1 \otimes e_4 + \frac{1}{1193}\sqrt{183274}e^5 \otimes e_7 + \frac{1}{1193}\sqrt{238070}e^3 \otimes e_9$	{12679, 135, 23478, 45689}
9421:3	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22274}e^{12}, \frac{1}{391}\sqrt{45066}e^{13}, \frac{1}{391}\sqrt{7770}e^{26}, \frac{1}{391}\sqrt{45066}e^{28}$	$(\frac{1}{391}, -\frac{14}{391}, \frac{131}{391}, \frac{218}{391}, -\frac{128}{391}, -\frac{13}{391}, \frac{132}{391}, -\frac{27}{391}, -\frac{41}{391})$ $+ \frac{1}{391}\sqrt{89614}e^3 \otimes e_5 + \frac{1}{391}\sqrt{89614}e^4 \otimes e_9$	{12369, 125679, 134, 1457, 23478, 2458, 36789, 5689}
9421:3	$0, 0, 0, 0, 0, \frac{9}{353}\sqrt{14}e^{12}, \frac{36}{353}\sqrt{15}e^{13}, \frac{9}{353}\sqrt{19}e^{26}, \frac{9}{353}\sqrt{106}e^{28}$	$(\frac{39}{353}, -\frac{27}{353}, \frac{9}{353}, -\frac{72}{353}, \frac{129}{353}, \frac{12}{353}, \frac{48}{353}, -\frac{15}{353}, -\frac{42}{353})$ $+ \frac{9}{353}\sqrt{201}e^3 \otimes e_4 + \frac{9}{353}\sqrt{201}e^5 \otimes e_7 + \frac{9}{353}\sqrt{247}e^1 \otimes e_9$	{135, 147, 36789, 45689}
9421:3	$0, 0, 0, 0, 0, \frac{1}{288}\sqrt{10065}e^{12}, \frac{1}{288}\sqrt{32635}e^{13}, \frac{1}{576}\sqrt{11590}e^{26}, \frac{1}{576}\sqrt{25010}e^{28}$	$(-\frac{91}{576}, \frac{7}{64}, \frac{205}{1152}, \frac{211}{384}, -\frac{45}{128}, -\frac{7}{144}, \frac{23}{1152}, \frac{35}{576}, \frac{49}{288})$ $+ \frac{1}{576}\sqrt{158295}e^3 \otimes e_5 + \frac{1}{576}\sqrt{158295}e^4 \otimes e_7$	{123469, 125679, 134, 157, 2378, 2458, 36789, 45689}
9421:3	$0, 0, 0, 0, 0, \frac{2}{209}\sqrt{1002}e^{12}, \frac{4}{209}\sqrt{501}e^{13}, \frac{2}{209}\sqrt{2338}e^{26}, \frac{4}{209}\sqrt{501}e^{28}$	$(\frac{24}{209}, \frac{10}{209}, \frac{30}{209}, 1, -\frac{125}{209}, \frac{34}{209}, \frac{54}{209}, \frac{4}{19}, \frac{54}{209})$ $+ \frac{334}{209}e^4 \otimes e_5$	{12348, 12358, 12478, 12578, 134689, 135689, 146789, 156789, 234679, 235679, 2469, 2569, 347, 357, 4, 5}
9421:3	$0, 0, 0, 0, 0, \frac{4}{899}\sqrt{286}e^{12}, \frac{8}{899}\sqrt{1254}e^{13}, \frac{44}{899}\sqrt{30}e^{26}, \frac{8}{899}\sqrt{1254}e^{28}$	$(-\frac{151}{899}, \frac{89}{899}, \frac{64}{899}, -\frac{112}{899}, \frac{292}{899}, -\frac{2}{29}, -\frac{3}{31}, \frac{27}{899}, \frac{4}{31})$ $+ \frac{36}{899}\sqrt{110}e^2 \otimes e_7 + \frac{8}{899}\sqrt{1111}e^3 \otimes e_4 + \frac{8}{899}\sqrt{1111}e^5 \otimes e_9$	{12358, 146789, 2469, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:3	$0, 0, 0, 0, 0, \frac{8}{1949}\sqrt{5789}e^{12}, \frac{1}{1949}\sqrt{1654}e^{13}, \frac{8}{1949}\sqrt{10751}e^{26}, \frac{5}{1949}\sqrt{38042}e^{28}$	$(\frac{2}{1949}, \frac{33}{1949}, \frac{226}{1949}, \frac{928}{1949}, -\frac{794}{1949}, \frac{35}{1949}, \frac{228}{1949}, \frac{68}{1949}, \frac{101}{1949}) + \frac{1}{1949}\sqrt{1159454}e^4 \otimes e_9 + \frac{1}{1949}\sqrt{1688734}e^2 \otimes e_5$	{12348, 12478, 135689, 156789, 23679, 269, 3457, 45}
9421:3	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{221}e^{12}, \frac{12}{521}\sqrt{546}e^{13}, \frac{12}{521}\sqrt{65}e^{26}, \frac{6}{521}\sqrt{1313}e^{28}$	$(\frac{135}{521}, -\frac{78}{521}, -\frac{108}{521}, \frac{261}{521}, \frac{60}{521}, \frac{57}{521}, \frac{27}{521}, -\frac{21}{521}, -\frac{99}{521}) + \frac{156}{521}\sqrt{5}e^4 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^4 \otimes e_7$	{123458, 12348, 12578, 1278, 235679, 23679, 24569, 2469}
9421:3	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{51}e^{12}, \frac{1}{14}\sqrt{102}e^{13}, \frac{1}{56}\sqrt{357}e^{26}, \frac{1}{14}\sqrt{102}e^{28}$	$(\frac{4}{7}, -\frac{17}{56}, -\frac{11}{56}, \frac{3}{16}, \frac{3}{16}, \frac{15}{56}, \frac{53}{112}, -\frac{1}{28}, -\frac{19}{56}) + \frac{1}{56}\sqrt{4641}e^4 \otimes e_9$	{123458, 12348, 1238, 124578, 12478, 1278, 2345679, 234679, 23679, 24569, 2469, 269}
9421:3	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{10218}e^{12}, \frac{2}{337}\sqrt{1834}e^{13}, \frac{4}{337}\sqrt{393}e^{26}, \frac{2}{337}\sqrt{1834}e^{28}$	$(\frac{142}{337}, -\frac{40}{337}, -\frac{120}{337}, \frac{167}{337}, -\frac{95}{337}, \frac{102}{337}, \frac{22}{337}, \frac{62}{337}, \frac{22}{337}) + \frac{262}{337}e^4 \otimes e_5 + \frac{2}{337}\sqrt{22270}e^1 \otimes e_3$	{12489, 12589, 1468, 1568, 2346, 2356, 349, 359}
9421:3	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{22971}e^{12}, \frac{4}{639}\sqrt{23374}e^{13}, \frac{4}{639}\sqrt{4030}e^{26}, \frac{2}{639}\sqrt{23777}e^{28}$	$(-\frac{55}{639}, \frac{26}{213}, -\frac{112}{639}, 1, \frac{40}{213}, \frac{23}{639}, -\frac{167}{639}, \frac{101}{639}, \frac{179}{639}) + \frac{2}{639}\sqrt{209157}e^4 \otimes e_7$	{1234569, 123469, 125679, 12679, 134, 1345, 157, 17, 23578, 2378, 2458, 248, 356789, 36789, 45689, 4689}
9421:3	$0, 0, 0, 0, 0, \frac{20}{2117}\sqrt{1574}e^{12}, \frac{1}{2117}\sqrt{1320586}e^{13}, \frac{1}{2117}\sqrt{108606}e^{26}, \frac{4}{2117}\sqrt{55877}e^{28}$	$(-\frac{8}{73}, -\frac{30}{2117}, \frac{465}{2117}, \frac{1020}{2117}, \frac{207}{2117}, -\frac{262}{2117}, \frac{233}{2117}, -\frac{4}{29}, -\frac{322}{2117}) + \frac{1}{2117}\sqrt{1279662}e^4 \otimes e_7 + \frac{1}{2117}\sqrt{1726678}e^3 \otimes e_9$	{125679, 12679, 134, 1345, 23578, 2378, 45689, 4689}
9421:3	$0, 0, 0, 0, 0, \frac{6}{787}\sqrt{2365}e^{12}, \frac{4}{787}\sqrt{4730}e^{13}, \frac{8}{787}\sqrt{2365}e^{26}, \frac{2}{787}\sqrt{30745}e^{28}$	$(-\frac{83}{787}, \frac{110}{787}, \frac{16}{787}, \frac{363}{787}, -\frac{320}{787}, \frac{27}{787}, -\frac{67}{787}, \frac{137}{787}, \frac{247}{787}) + \frac{2}{787}\sqrt{55685}e^4 \otimes e_7 + \frac{4}{787}\sqrt{22790}e^2 \otimes e_5$	{12348, 1278, 1345689, 156789, 23679, 2469, 357, 45}
9421:3	$0, 0, 0, 0, 0, \frac{9}{1691}\sqrt{7530}e^{12}, \frac{1}{1691}\sqrt{584830}e^{13}, \frac{2}{1691}\sqrt{41415}e^{26}, \frac{5}{1691}\sqrt{1506}e^{28}$	$(\frac{471}{1691}, -\frac{96}{1691}, -\frac{784}{1691}, \frac{942}{1691}, \frac{198}{1691}, \frac{375}{1691}, -\frac{313}{1691}, \frac{279}{1691}, \frac{183}{1691}) + \frac{1}{1691}\sqrt{1879990}e^1 \otimes e_3 + \frac{4}{1691}\sqrt{116715}e^4 \otimes e_7$	{125789, 12789, 15678, 1678, 23567, 2367, 3579, 379}
9421:3	$0, 0, 0, 0, 0, \frac{4}{4225}\sqrt{134247}e^{12}, \frac{2}{4225}\sqrt{101145}e^{13}, \frac{22}{4225}\sqrt{3678}e^{26}, \frac{2}{4225}\sqrt{469558}e^{28}$	$(\frac{721}{4225}, -\frac{38}{845}, -\frac{101}{845}, -\frac{1416}{4225}, \frac{1377}{4225}, \frac{531}{4225}, \frac{216}{4225}, \frac{341}{4225}, \frac{151}{4225}) + \frac{2}{4225}\sqrt{1101561}e^2 \otimes e_4 + \frac{2}{4225}\sqrt{644263}e^1 \otimes e_3 + \frac{4}{4225}\sqrt{152637}e^5 \otimes e_9$	{1258, 14689, 2369, 345}
9421:3	$0, 0, 0, 0, 0, \frac{4}{299}\sqrt{561}e^{12}, \frac{4}{299}\sqrt{1122}e^{13}, \frac{4}{299}\sqrt{1309}e^{26}, \frac{4}{299}\sqrt{1122}e^{28}$	$(-\frac{57}{299}, \frac{55}{299}, -\frac{24}{299}, \frac{110}{299}, -\frac{2}{23}, -\frac{2}{299}, -\frac{81}{299}, \frac{53}{299}, \frac{108}{299}) + \frac{12}{299}\sqrt{357}e^2 \otimes e_7 + \frac{136}{299}e^4 \otimes e_5$	{12348, 12358, 146789, 156789, 2469, 2569, 347, 357}
9421:3	$0, 0, 0, 0, 0, \frac{15}{2033}\sqrt{2006}e^{12}, \frac{6}{2033}\sqrt{6549}e^{13}, \frac{84}{2033}\sqrt{59}e^{26}, \frac{12}{2033}\sqrt{3953}e^{28}$	$(\frac{444}{2033}, -\frac{177}{2033}, \frac{12}{2033}, -\frac{708}{2033}, \frac{234}{2033}, \frac{267}{2033}, \frac{24}{107}, \frac{90}{2033}, -\frac{87}{2033}) + \frac{3}{2033}\sqrt{101126}e^1 \otimes e_9 + \frac{6}{2033}\sqrt{27789}e^2 \otimes e_4$	{12358, 1238, 12578, 1278, 235679, 23679, 2569, 269}
9421:3	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{10218}e^{12}, \frac{1}{103}\sqrt{1834}e^{13}, \frac{2}{103}\sqrt{393}e^{26}, \frac{1}{103}\sqrt{1834}e^{28}$	$(\frac{71}{103}, -\frac{20}{103}, -\frac{60}{103}, \frac{18}{103}, \frac{18}{103}, \frac{51}{103}, \frac{11}{103}, \frac{31}{103}, \frac{11}{103}) + \frac{1}{103}\sqrt{22270}e^1 \otimes e_3$	{124589, 12489, 1289, 14568, 1468, 168, 23456, 2346, 236, 3459, 349, 39}
9421:3	$0, 0, 0, 0, 0, \frac{8}{3615}\sqrt{33654}e^{12}, \frac{8}{3615}\sqrt{2054}e^{13}, \frac{4}{3615}\sqrt{100014}e^{26}, \frac{4}{3615}\sqrt{55142}e^{28}$	$(\frac{168}{1205}, \frac{13}{723}, -\frac{152}{723}, -\frac{1199}{3615}, \frac{336}{1205}, \frac{569}{3615}, -\frac{256}{3615}, \frac{634}{3615}, \frac{233}{1205}) + \frac{184}{3615}\sqrt{79}e^1 \otimes e_3 + \frac{4}{3615}\sqrt{244742}e^2 \otimes e_4 + \frac{8}{3615}\sqrt{25991}e^5 \otimes e_7$	{1278, 146789, 23679, 347}
9421:3	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{11562}e^{12}, \frac{1}{229}\sqrt{3290}e^{13}, \frac{1}{229}\sqrt{8930}e^{26}, \frac{6}{229}\sqrt{141}e^{28}$	$(\frac{35}{229}, \frac{13}{458}, \frac{10}{229}, -\frac{59}{229}, -\frac{175}{458}, \frac{83}{458}, \frac{45}{229}, \frac{48}{229}, \frac{109}{458}) + \frac{1}{229}\sqrt{16262}e^1 \otimes e_4 + \frac{2}{229}\sqrt{5405}e^2 \otimes e_5$	{1238, 1278, 135689, 156789, 234679, 2469, 3457, 45}
9421:3	$0, 0, 0, 0, 0, \frac{4}{217}\sqrt{365}e^{12}, \frac{12}{217}\sqrt{73}e^{13}, \frac{6}{217}\sqrt{73}e^{26}, \frac{8}{217}\sqrt{146}e^{28}$	$(\frac{72}{217}, -\frac{34}{217}, -\frac{9}{217}, \frac{116}{217}, -\frac{74}{217}, \frac{38}{217}, \frac{9}{31}, \frac{4}{217}, -\frac{30}{217}) + \frac{2}{217}\sqrt{6497}e^4 \otimes e_9 + \frac{2}{217}\sqrt{7373}e^1 \otimes e_5$	{12348, 12478, 13689, 16789, 235679, 2569, 3457, 45}
9421:3	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{561}e^{12}, \frac{4}{231}\sqrt{1122}e^{13}, \frac{4}{231}\sqrt{1309}e^{26}, \frac{4}{231}\sqrt{1122}e^{28}$	$(-\frac{19}{77}, \frac{5}{21}, -\frac{8}{77}, \frac{2}{11}, \frac{2}{11}, -\frac{2}{231}, -\frac{27}{77}, \frac{53}{231}, \frac{36}{77}) + \frac{4}{77}\sqrt{357}e^2 \otimes e_7$	{123458, 12348, 1238, 1456789, 146789, 16789, 24569, 2469, 269, 3457, 347, 37}
9421:3	$0, 0, 0, 0, 0, \frac{2}{405}\sqrt{3705}e^{12}, \frac{1}{405}\sqrt{20710}e^{13}, \frac{4}{405}\sqrt{1045}e^{26}, \frac{2}{405}\sqrt{2945}e^{28}$	$(\frac{2}{405}, \frac{4}{45}, -\frac{61}{405}, -\frac{31}{135}, \frac{16}{135}, \frac{38}{405}, -\frac{59}{405}, \frac{74}{405}, \frac{22}{81}) + \frac{1}{405}\sqrt{26790}e^1 \otimes e_4 + \frac{4}{135}\sqrt{285}e^2 \otimes e_7$	{12358, 1238, 156789, 16789, 24569, 2469, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:3	$0, 0, 0, 0, 0, \frac{1}{1583}\sqrt{39970}e^{12}, \frac{3}{1583}\sqrt{35402}e^{13}, \frac{10}{1583}\sqrt{3426}e^{26},$ $\frac{2}{1583}\sqrt{147318}e^{28}$	$(-\frac{125}{1583}, \frac{49}{1583}, \frac{593}{1583}, -\frac{522}{1583}, \frac{189}{1583}, -\frac{76}{1583}, \frac{468}{1583}, -\frac{27}{1583}, \frac{22}{1583})$ $+\frac{1}{1583}\sqrt{779986}e^3 \otimes e_9 + \frac{3}{1583}\sqrt{90218}e^2 \otimes e_4$	{12358, 1238, 1456789, 146789, 2569, 269, 3457, 347}
9421:3	$0, 0, 0, 0, 0, \frac{7}{81}\sqrt{78}e^{12}, \frac{2}{81}\sqrt{910}e^{13}, \frac{1}{81}\sqrt{910}e^{26}, \frac{2}{81}\sqrt{91}e^{28}$	$(\frac{40}{81}, -\frac{1}{9}, -\frac{5}{81}, -\frac{17}{27}, \frac{5}{27}, \frac{31}{81}, \frac{35}{81}, \frac{22}{81}, \frac{13}{81})$ $+\frac{2}{81}\sqrt{3003}e^1 \otimes e_4$	{123589, 12389, 125789, 12789, 13568, 1368, 15678, 1678, 234567, 23467, 2456, 246, 34579, 3479, 459, 49}
9421:3	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{22971}e^{12}, \frac{2}{639}\sqrt{23777}e^{13}, \frac{4}{639}\sqrt{4030}e^{26},$ $\frac{4}{639}\sqrt{23374}e^{28}$	$(\frac{118}{639}, -\frac{95}{639}, \frac{61}{639}, 1, \frac{40}{213}, \frac{23}{639}, \frac{179}{639}, -\frac{8}{71}, -\frac{167}{639})$ $+\frac{2}{639}\sqrt{209157}e^4 \otimes e_9$	{123569, 12369, 125679, 12679, 134, 1345, 1457, 147, 234578, 23478, 2458, 248, 356789, 36789, 5689, 689}
9421:3	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22274}e^{12}, \frac{1}{391}\sqrt{45066}e^{13}, \frac{1}{391}\sqrt{7770}e^{26},$ $\frac{1}{391}\sqrt{45066}e^{28}$	$(\frac{1}{391}, -\frac{14}{391}, -\frac{42}{391}, \frac{218}{391}, \frac{218}{391}, -\frac{13}{391}, -\frac{41}{391}, -\frac{27}{391}, -\frac{41}{391})$ $+\frac{1}{391}\sqrt{89614}e^4 \otimes e_7 + \frac{1}{391}\sqrt{89614}e^5 \otimes e_9$	{123469, 12679, 1345, 157, 23578, 2458, 36789, 4689}
9421:3	$0, 0, 0, 0, 0, \frac{1}{565}\sqrt{53922}e^{12}, \frac{1}{565}\sqrt{37202}e^{13}, \frac{22}{565}\sqrt{114}e^{26},$ $\frac{1}{565}\sqrt{37202}e^{28}$	$(\frac{23}{565}, \frac{46}{565}, -\frac{186}{565}, \frac{72}{565}, \frac{72}{565}, \frac{69}{565}, -\frac{163}{565}, \frac{23}{565}, \frac{161}{565})$ $+\frac{13}{565}\sqrt{418}e^1 \otimes e_3 + \frac{18}{565}\sqrt{418}e^2 \otimes e_7$	{1456789, 146789, 16789, 3457, 347, 37}
9421:3	$0, 0, 0, 0, 0, \frac{4}{669}\sqrt{11658}e^{12}, \frac{4}{223}\sqrt{134}e^{13}, \frac{4}{669}\sqrt{14941}e^{26},$ $\frac{4}{669}\sqrt{11055}e^{28}$	$(-\frac{12}{223}, \frac{107}{669}, \frac{46}{223}, -\frac{143}{223}, \frac{40}{223}, \frac{71}{669}, \frac{34}{223}, \frac{178}{669}, \frac{95}{223})$ $+\frac{4}{223}\sqrt{4087}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 13456789, 1346789, 145689, 14689, 23569, 2369, 25679, 2679, 34, 345, 457, 47}
9421:3	$0, 0, 0, 0, 0, \frac{2}{1339}\sqrt{53922}e^{12}, \frac{2}{1339}\sqrt{37202}e^{13}, \frac{44}{1339}\sqrt{114}e^{26},$ $\frac{2}{1339}\sqrt{37202}e^{28}$	$(\frac{46}{1339}, \frac{92}{1339}, -\frac{372}{1339}, -\frac{5}{103}, \frac{353}{1339}, \frac{138}{1339}, -\frac{326}{1339}, \frac{230}{1339}, \frac{322}{1339})$ $+\frac{2}{103}\sqrt{418}e^1 \otimes e_3 + \frac{36}{1339}\sqrt{418}e^2 \otimes e_7 + \frac{418}{1339}e^5 \otimes e_4$	{146789, 156789, 347, 357}
9421:3	$0, 0, 0, 0, 0, \frac{10}{49}e^{12}, \frac{10}{49}\sqrt{3}e^{13}, \frac{5}{49}\sqrt{3}e^{26}, \frac{10}{49}\sqrt{3}e^{28}$	$(\frac{10}{49}, -\frac{5}{49}, -\frac{15}{49}, \frac{20}{49}, \frac{20}{49}, \frac{5}{49}, -\frac{5}{49}, 0, -\frac{5}{49})$ $+\frac{15}{49}\sqrt{3}e^1 \otimes e_3 + \frac{5}{49}\sqrt{31}e^4 \otimes e_7 + \frac{5}{49}\sqrt{31}e^5 \otimes e_9$	{12578, 16789, 23679, 357}
9421:3	$0, 0, 0, 0, 0, \frac{9}{1889}\sqrt{2778}e^{12}, \frac{2}{1889}\sqrt{65283}e^{13}, \frac{11}{1889}\sqrt{2778}e^{26},$ $\frac{1}{1889}\sqrt{399106}e^{28}$	$(\frac{26}{1889}, \frac{52}{1889}, -\frac{437}{1889}, \frac{198}{1889}, \frac{645}{1889}, \frac{78}{1889}, -\frac{411}{1889}, \frac{130}{1889}, \frac{182}{1889})$ $+\frac{1}{1889}\sqrt{326878}e^1 \otimes e_3 + \frac{1}{1889}\sqrt{413922}e^5 \otimes e_9 + \frac{9}{1889}\sqrt{10186}e^2 \otimes e_7$	{146789, 16789, 3457, 357}
9421:3	$0, 0, 0, 0, 0, \frac{1}{763}\sqrt{12426}e^{12}, \frac{2}{763}\sqrt{6213}e^{13}, \frac{2}{763}\sqrt{4389}e^{26},$ $\frac{2}{763}\sqrt{6213}e^{28}$	$(\frac{58}{763}, -\frac{19}{763}, -\frac{134}{763}, \frac{12}{109}, \frac{12}{109}, \frac{39}{763}, -\frac{76}{763}, \frac{20}{763}, \frac{1}{763})$ $+\frac{18}{763}\sqrt{133}e^2 \otimes e_7 + \frac{1}{763}\sqrt{34314}e^1 \otimes e_9$	{123458, 12348, 1238, 24569, 2469, 269}
9421:3	$0, 0, 0, 0, 0, \frac{92}{215}\sqrt{2}e^{12}, \frac{4}{215}\sqrt{2001}e^{13}, \frac{8}{215}\sqrt{69}e^{26}, \frac{4}{215}\sqrt{2001}e^{28}$	$(-\frac{1}{43}, -\frac{17}{215}, \frac{128}{215}, \frac{36}{215}, \frac{36}{215}, -\frac{22}{215}, \frac{123}{215}, -\frac{39}{215}, -\frac{56}{215})$ $+\frac{4}{215}\sqrt{4117}e^3 \otimes e_9$	{1245679, 124679, 12679, 13, 134, 1345, 234578, 23478, 2378, 45689, 4689, 689}
9421:3	$0, 0, 0, 0, 0, \frac{6}{787}\sqrt{2365}e^{12}, \frac{4}{787}\sqrt{4730}e^{13}, \frac{8}{787}\sqrt{2365}e^{26},$ $\frac{2}{787}\sqrt{30745}e^{28}$	$(-\frac{83}{787}, \frac{110}{787}, \frac{275}{787}, -\frac{320}{787}, -\frac{155}{787}, \frac{27}{787}, \frac{192}{787}, \frac{137}{787}, \frac{247}{787})$ $+\frac{2}{787}\sqrt{55685}e^3 \otimes e_5 + \frac{4}{787}\sqrt{22790}e^2 \otimes e_4$	{1238, 12578, 134689, 1456789, 23679, 2569, 347, 45}
9421:3	$0, 0, 0, 0, 0, \frac{9}{1691}\sqrt{7530}e^{12}, \frac{5}{1691}\sqrt{1506}e^{13}, \frac{2}{1691}\sqrt{41415}e^{26},$ $\frac{1}{1691}\sqrt{584830}e^{28}$	$(\frac{719}{1691}, -\frac{344}{1691}, -\frac{536}{1691}, \frac{942}{1691}, \frac{198}{1691}, \frac{375}{1691}, \frac{183}{1691}, \frac{31}{1691}, -\frac{313}{1691})$ $+\frac{1}{1691}\sqrt{1879990}e^1 \otimes e_3 + \frac{4}{1691}\sqrt{116715}e^4 \otimes e_9$	{12458, 1248, 15689, 1689, 23569, 2369, 34, 345}
9421:3	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{221}e^{12}, \frac{12}{521}\sqrt{546}e^{13}, \frac{12}{521}\sqrt{65}e^{26}, \frac{6}{521}\sqrt{1313}e^{28}$	$(\frac{135}{521}, -\frac{78}{521}, \frac{93}{521}, -\frac{141}{521}, \frac{60}{521}, \frac{57}{521}, \frac{228}{521}, -\frac{21}{521}, -\frac{99}{521})$ $+\frac{156}{521}\sqrt{5}e^1 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^3 \otimes e_4$	{12358, 1238, 124578, 12478, 235679, 23679, 24569, 2469}
9421:3	$0, 0, 0, 0, 0, \frac{2}{1745}\sqrt{11018}e^{12}, \frac{1}{1745}\sqrt{930234}e^{13}, \frac{2}{1745}\sqrt{25971}e^{26},$ $\frac{2}{1745}\sqrt{144021}e^{28}$	$(\frac{62}{349}, -\frac{206}{1745}, \frac{479}{1745}, -\frac{477}{1745}, \frac{198}{1745}, \frac{104}{1745}, \frac{789}{1745}, -\frac{102}{1745}, -\frac{308}{1745})$ $+\frac{3}{349}\sqrt{4722}e^1 \otimes e_4 + \frac{4}{1745}\sqrt{85783}e^3 \otimes e_9$	{125679, 12679, 13, 135, 234578, 23478, 45689, 4689}
9421:3	$0, 0, 0, 0, 0, \frac{2}{4273}\sqrt{190205}e^{12}, \frac{6}{4273}\sqrt{38041}e^{13}, \frac{12}{4273}\sqrt{7678}e^{26},$ $\frac{4}{4273}\sqrt{76082}e^{28}$	$(\frac{18}{4273}, \frac{167}{4273}, -\frac{549}{4273}, -\frac{680}{4273}, \frac{1217}{4273}, \frac{185}{4273}, -\frac{531}{4273}, \frac{352}{4273}, \frac{519}{4273})$ $+\frac{2}{4273}\sqrt{273965}e^5 \otimes e_9 + \frac{36}{4273}\sqrt{2094}e^2 \otimes e_7 + \frac{4}{4273}\sqrt{97022}e^1 \otimes e_4$	{12358, 16789, 2469, 3457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:3	$0, 0, 0, 0, 0, \frac{4}{1761}\sqrt{4070}e^{12}, \frac{1}{1761}\sqrt{360602}e^{13}, \frac{5}{587}\sqrt{814}e^{26}, \frac{4}{1761}\sqrt{24013}e^{28}$	$(-\frac{200}{1761}, \frac{58}{1761}, \frac{127}{587}, -\frac{349}{1761}, \frac{196}{587}, -\frac{142}{1761}, \frac{181}{1761}, -\frac{28}{587}, -\frac{26}{1761})$ $+ \frac{1}{1761}\sqrt{538054}e^3 \otimes e_9 + \frac{32}{1761}\sqrt{407}e^2 \otimes e_4 + \frac{5}{1761}\sqrt{13838}e^5 \otimes e_7$	{12679, 1345, 2378, 45689}
9421:3	$0, 0, 0, 0, 0, \frac{8}{163}\sqrt{51}e^{12}, \frac{8}{163}\sqrt{102}e^{13}, \frac{2}{163}\sqrt{357}e^{26}, \frac{8}{163}\sqrt{102}e^{28}$	$(\frac{64}{163}, -\frac{34}{163}, -\frac{11}{163}, \frac{72}{163}, -\frac{30}{163}, \frac{30}{163}, \frac{53}{163}, -\frac{4}{163}, -\frac{38}{163})$ $+ \frac{102}{163}e^4 \otimes e_5 + \frac{2}{163}\sqrt{4641}e^1 \otimes e_9$	{12348, 12358, 12478, 12578, 234679, 235679, 2469, 2569}
9421:3	$0, 0, 0, 0, 0, \frac{2}{963}\sqrt{7701}e^{12}, \frac{2}{963}\sqrt{30653}e^{13}, \frac{4}{963}\sqrt{8305}e^{26}, \frac{8}{963}\sqrt{2869}e^{28}$	$(-\frac{134}{963}, \frac{85}{963}, -\frac{83}{963}, \frac{47}{107}, \frac{40}{321}, -\frac{49}{963}, \frac{217}{963}, \frac{4}{107}, \frac{121}{963})$ $+ \frac{2}{963}\sqrt{45753}e^4 \otimes e_9 + \frac{4}{321}\sqrt{2265}e^2 \otimes e_7$	{123458, 12348, 156789, 16789, 2569, 269, 3457, 347}
9421:3	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{22971}e^{12}, \frac{4}{639}\sqrt{23374}e^{13}, \frac{4}{639}\sqrt{4030}e^{26}, \frac{2}{639}\sqrt{23777}e^{28}$	$(-\frac{55}{639}, \frac{26}{213}, \frac{407}{639}, -\frac{133}{213}, \frac{40}{213}, \frac{23}{639}, \frac{352}{639}, \frac{101}{639}, \frac{179}{639})$ $+ \frac{2}{639}\sqrt{209157}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 13, 135, 1457, 147, 23578, 2378, 2458, 248, 356789, 36789, 45689, 4689}
9421:3	$0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{105927}e^{12}, \frac{7}{2097}\sqrt{29614}e^{13}, \frac{2}{2097}\sqrt{43282}e^{26}, \frac{2}{2097}\sqrt{7973}e^{28}$	$(\frac{386}{2097}, -\frac{16}{699}, -\frac{409}{2097}, \frac{124}{233}, -\frac{251}{699}, \frac{338}{2097}, -\frac{23}{2097}, \frac{290}{2097}, \frac{242}{2097})$ $+ \frac{1}{699}\sqrt{248302}e^1 \otimes e_5 + \frac{4}{2097}\sqrt{126429}e^4 \otimes e_7$	{12348, 1278, 134689, 16789, 235679, 24569, 357, 45}
9421:3	$0, 0, 0, 0, 0, \frac{92}{307}\sqrt{2}e^{12}, \frac{4}{307}\sqrt{2001}e^{13}, \frac{8}{307}\sqrt{69}e^{26}, \frac{4}{307}\sqrt{2001}e^{28}$	$(-\frac{5}{307}, -\frac{17}{307}, \frac{128}{307}, \frac{128}{307}, -\frac{56}{307}, \frac{22}{307}, \frac{123}{307}, -\frac{39}{307}, -\frac{56}{307})$ $+ \frac{184}{307}e^4 \otimes e_5 + \frac{4}{307}\sqrt{4117}e^3 \otimes e_9$	{124679, 125679, 134, 135, 23478, 23578, 4689, 5689}
9421:3	$0, 0, 0, 0, 0, \frac{2}{1583}\sqrt{12426}e^{12}, \frac{4}{1583}\sqrt{6213}e^{13}, \frac{4}{1583}\sqrt{4389}e^{26}, \frac{4}{1583}\sqrt{6213}e^{28}$	$(\frac{116}{1583}, -\frac{38}{1583}, -\frac{268}{1583}, \frac{111}{1583}, \frac{225}{1583}, \frac{78}{1583}, -\frac{152}{1583}, \frac{40}{1583}, \frac{2}{1583})$ $+ \frac{114}{1583}e^5 \otimes e_4 + \frac{2}{1583}\sqrt{34314}e^1 \otimes e_9 + \frac{36}{1583}\sqrt{133}e^2 \otimes e_7$	{12348, 12358, 2469, 2569}
9421:3	$0, 0, 0, 0, 0, \frac{18}{4169}\sqrt{2965}e^{12}, \frac{36}{4169}\sqrt{870}e^{13}, \frac{36}{4169}\sqrt{790}e^{26}, \frac{18}{4169}\sqrt{4705}e^{28}$	$(\frac{639}{4169}, -\frac{270}{4169}, -\frac{288}{4169}, -\frac{1080}{4169}, \frac{1161}{4169}, \frac{369}{4169}, \frac{351}{4169}, \frac{9}{379}, -\frac{171}{4169})$ $+ \frac{18}{4169}\sqrt{3765}e^5 \otimes e_7 + \frac{360}{4169}\sqrt{19}e^1 \otimes e_9 + \frac{72}{4169}\sqrt{465}e^2 \otimes e_4$	{12358, 1278, 23679, 2569}
9421:4	$0, 0, 0, 0, 0, \frac{2}{581}\sqrt{15202}e^{12}, \frac{1}{1743}\sqrt{949434}e^{34}, \frac{1}{1743}\sqrt{802942}e^{16}, \frac{1}{1743}\sqrt{767010}e^{18} + \frac{2}{1743}\sqrt{109869}e^{35}$	$(\frac{211}{1743}, -\frac{36}{581}, -\frac{27}{581}, -\frac{19}{83}, \frac{202}{581}, \frac{103}{1743}, -\frac{160}{581}, \frac{314}{1743}, \frac{25}{83})$ $+ \frac{1}{1743}\sqrt{2010810}e^1 \otimes e_7$	{12348, 1258, 134569, 169, 2356789, 246789, 37, 457}
9421:4	$0, 0, 0, 0, 0, \frac{6}{5369}\sqrt{56785}e^{12}, \frac{10}{5369}\sqrt{22714}e^{34}, \frac{2}{5369}\sqrt{257610}e^{16}, \frac{6}{5369}\sqrt{84485}e^{18} + \frac{12}{5369}\sqrt{70635}e^{35}$	$(\frac{552}{5369}, \frac{27}{767}, \frac{615}{5369}, -\frac{2155}{5369}, \frac{1230}{5369}, \frac{57}{413}, -\frac{220}{767}, \frac{1293}{5369}, \frac{1845}{5369})$ $+ \frac{2}{767}\sqrt{65095}e^3 \otimes e_4 + \frac{4}{5369}\sqrt{868395}e^5 \otimes e_7$	{123789, 1467, 24678, 379}
9421:4	$0, 0, 0, 0, 0, \frac{18}{1697}\sqrt{627}e^{12}, \frac{36}{1697}\sqrt{1159}e^{34}, \frac{36}{1697}\sqrt{247}e^{16}, \frac{18}{1697}\sqrt{4845}e^{18} + \frac{9}{1697}\sqrt{8854}e^{35}$	$(-\frac{236}{1697}, \frac{378}{1697}, -\frac{409}{1697}, \frac{1209}{1697}, \frac{79}{1697}, \frac{142}{1697}, \frac{800}{1697}, -\frac{94}{1697}, -\frac{330}{1697})$ $+ \frac{9}{1697}\sqrt{52630}e^4 \otimes e_9$	{123679, 12569, 13458, 1478, 2345, 247, 36789, 5689}
9421:4	$0, 0, 0, 0, 0, \frac{2}{5441}\sqrt{1297054}e^{12}, \frac{2}{5441}\sqrt{2313982}e^{34}, \frac{2}{5441}\sqrt{223630}e^{16}, \frac{10}{5441}\sqrt{1177}e^{18} + \frac{2}{5441}\sqrt{537889}e^{35}$	$(-\frac{697}{5441}, \frac{2179}{5441}, \frac{1221}{5441}, -\frac{1396}{5441}, \frac{1133}{5441}, \frac{1482}{5441}, \frac{175}{5441}, \frac{785}{5441}, \frac{88}{5441})$ $+ \frac{24}{5441}\sqrt{17655}e^3 \otimes e_5 + \frac{2}{5441}\sqrt{3190847}e^2 \otimes e_7$	{1367, 14567, 23468, 2568}
9421:4	$0, 0, 0, 0, 0, \frac{1}{1637}\sqrt{251198}e^{12}, \frac{1}{1637}\sqrt{2433738}e^{34}, \frac{4}{1637}\sqrt{26767}e^{16}, \frac{1}{1637}\sqrt{531222}e^{18} + \frac{4}{1637}\sqrt{35003}e^{35}$	$(\frac{18}{1637}, \frac{251}{1637}, \frac{1182}{1637}, -\frac{279}{1637}, -\frac{877}{1637}, \frac{269}{1637}, \frac{903}{1637}, \frac{287}{1637}, \frac{305}{1637})$ $+ \frac{5}{1637}\sqrt{218254}e^3 \otimes e_5$	{12348, 12378, 124578, 1258, 34, 37, 457, 5}
9421:4	$0, 0, 0, 0, 0, \frac{36}{1697}\sqrt{1159}e^{12}, \frac{18}{1697}\sqrt{627}e^{34}, \frac{36}{1697}\sqrt{247}e^{16}, \frac{18}{1697}\sqrt{8854}e^{18} + \frac{9}{1697}\sqrt{4845}e^{35}$	$(-\frac{513}{1697}, \frac{1209}{1697}, -\frac{132}{1697}, \frac{378}{1697}, -\frac{198}{1697}, \frac{696}{1697}, \frac{246}{1697}, \frac{183}{1697}, -\frac{330}{1697})$ $+ \frac{9}{1697}\sqrt{52630}e^2 \otimes e_9$	{1234578, 12358, 1248, 1278, 134679, 1369, 14569, 15679}
9421:4	$0, 0, 0, 0, 0, \frac{12}{1877}\sqrt{655}e^{12}, \frac{3}{1877}\sqrt{4454}e^{34}, \frac{3}{1877}\sqrt{104538}e^{16}, \frac{24}{1877}\sqrt{1441}e^{18} + \frac{3}{1877}\sqrt{47422}e^{35}$	$(\frac{486}{1877}, -\frac{693}{1877}, \frac{714}{1877}, -\frac{465}{1877}, \frac{51}{1877}, -\frac{207}{1877}, \frac{249}{1877}, \frac{279}{1877}, \frac{765}{1877})$ $+ \frac{12}{1877}\sqrt{11135}e^3 \otimes e_4 + \frac{3}{1877}\sqrt{252830}e^1 \otimes e_2$	{13578, 1478, 2357, 247}
9421:4	$0, 0, 0, 0, 0, \frac{14}{4849}\sqrt{6851}e^{12}, \frac{28}{4849}\sqrt{3791}e^{34}, \frac{112}{4849}\sqrt{238}e^{16}, \frac{56}{4849}\sqrt{1853}e^{18} + \frac{28}{4849}\sqrt{85}e^{35}$	$(\frac{451}{4849}, -\frac{1215}{4849}, -\frac{29}{373}, \frac{1804}{4849}, \frac{515}{4849}, -\frac{764}{4849}, \frac{1427}{4849}, -\frac{313}{4849}, \frac{138}{4849})$ $+ \frac{14}{4849}\sqrt{36601}e^1 \otimes e_2 + \frac{14}{4849}\sqrt{36737}e^4 \otimes e_9$	{13458, 1478, 2345, 247}
9421:4	$0, 0, 0, 0, 0, \frac{3}{2441}\sqrt{36190}e^{12}, \frac{3}{2441}\sqrt{89770}e^{34}, \frac{12}{2441}\sqrt{3431}e^{16}, \frac{3}{2441}\sqrt{56118}e^{18} + \frac{12}{2441}\sqrt{2491}e^{35}$	$(\frac{186}{2441}, -\frac{105}{2441}, \frac{438}{2441}, -\frac{675}{2441}, \frac{15}{2441}, \frac{81}{2441}, -\frac{237}{2441}, \frac{267}{2441}, \frac{453}{2441})$ $+ \frac{24}{2441}\sqrt{2162}e^1 \otimes e_7 + \frac{3}{2441}\sqrt{64766}e^3 \otimes e_5$	{12348, 1258, 37, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:4	$0, 0, 0, 0, 0, \frac{4}{1673}\sqrt{31467}e^{12}, \frac{1}{1673}\sqrt{1506714}e^{34}, \frac{2}{1673}\sqrt{98103}e^{16},$ $\frac{6}{1673}\sqrt{9255}e^{18} + \frac{2}{1673}\sqrt{418326}e^{35}$	$(\frac{166}{1673}, \frac{26}{239}, -\frac{541}{1673}, -\frac{89}{1673}, \frac{1221}{1673}, \frac{348}{1673}, -\frac{90}{239}, \frac{514}{1673}, \frac{680}{1673})$ $+ \frac{1}{1673}\sqrt{5016210}e^5 \otimes e_7$	{123789, 12589, 13456, 1467, 234568, 24678, 379, 59}
9421:4	$0, 0, 0, 0, 0, \frac{18}{3877}\sqrt{1103}e^{12}, \frac{2}{3877}\sqrt{656285}e^{34}, \frac{4}{3877}\sqrt{217291}e^{16},$ $\frac{4}{3877}\sqrt{204055}e^{18} + \frac{30}{3877}\sqrt{1103}e^{35}$	$(\frac{917}{3877}, -\frac{1289}{3877}, -\frac{323}{3877}, -\frac{98}{3877}, \frac{1785}{3877}, -\frac{372}{3877}, -\frac{421}{3877}, \frac{545}{3877}, \frac{1462}{3877})$ $+ \frac{2}{3877}\sqrt{1668839}e^5 \otimes e_7 + \frac{2}{3877}\sqrt{2059301}e^1 \otimes e_2$	{13458, 1478, 2345, 247}
9421:4	$0, 0, 0, 0, 0, \frac{2}{2749}\sqrt{283305}e^{12}, \frac{40}{2749}\sqrt{1111}e^{34}, \frac{12}{2749}\sqrt{11110}e^{16},$ $\frac{6}{2749}\sqrt{38885}e^{18} + \frac{4}{2749}\sqrt{33330}e^{35}$	$(\frac{330}{2749}, -\frac{153}{2749}, \frac{165}{2749}, -\frac{845}{2749}, \frac{672}{2749}, \frac{177}{2749}, -\frac{680}{2749}, \frac{507}{2749}, \frac{837}{2749})$ $+ \frac{2}{2749}\sqrt{188365}e^3 \otimes e_4 + \frac{8}{2749}\sqrt{62115}e^1 \otimes e_7$	{2356789, 246789, 37, 457}
9421:4	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{2}e^{12}, \frac{7}{137}\sqrt{73}e^{34}, \frac{7}{137}\sqrt{10}e^{16},$ $\frac{42}{137}e^{18} + \frac{7}{137}\sqrt{55}e^{35}$	$(-\frac{7}{137}, \frac{16}{137}, -\frac{49}{137}, \frac{44}{137}, \frac{44}{137}, \frac{9}{137}, -\frac{5}{137}, \frac{2}{137}, -\frac{5}{137})$ $+ \frac{7}{137}\sqrt{113}e^5 \otimes e_7 + \frac{7}{137}\sqrt{131}e^4 \otimes e_9$	{123679, 12569, 13458, 1478, 2345, 247, 36789, 5689}
9421:4	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{2}e^{12}, \frac{7}{137}\sqrt{73}e^{34}, \frac{7}{137}\sqrt{10}e^{16},$ $\frac{42}{137}e^{18} + \frac{7}{137}\sqrt{55}e^{35}$	$(-\frac{7}{137}, \frac{16}{137}, -\frac{49}{137}, \frac{44}{137}, \frac{44}{137}, \frac{9}{137}, -\frac{5}{137}, \frac{2}{137}, -\frac{5}{137})$ $- \frac{7}{137}\sqrt{113}e^5 \otimes e_7 + \frac{7}{137}\sqrt{131}e^4 \otimes e_9$	{123679, 12569, 13458, 1478, 2345, 247, 36789, 5689}
9421:4	$0, 0, 0, 0, 0, \frac{30}{5209}\sqrt{5105}e^{12}, \frac{360}{5209}\sqrt{15}e^{34}, \frac{60}{5209}\sqrt{230}e^{16},$ $\frac{30}{5209}\sqrt{485}e^{18} + \frac{60}{5209}\sqrt{2310}e^{35}$	$(-\frac{750}{5209}, \frac{2139}{5209}, \frac{1185}{5209}, -\frac{1065}{5209}, \frac{1296}{5209}, \frac{1389}{5209}, \frac{120}{5209}, \frac{639}{5209}, -\frac{111}{5209})$ $+ \frac{120}{5209}\sqrt{815}e^2 \otimes e_9 + \frac{30}{5209}\sqrt{10245}e^3 \otimes e_4$	{12358, 1248, 1369, 14569}
9421:4	$0, 0, 0, 0, 0, \frac{16}{4521}\sqrt{9170}e^{12}, \frac{4}{4521}\sqrt{331954}e^{34}, \frac{4}{1507}\sqrt{4585}e^{16},$ $\frac{14}{4521}\sqrt{10873}e^{18} + \frac{2}{4521}\sqrt{162309}e^{35}$	$(-\frac{287}{1507}, \frac{1861}{4521}, -\frac{1085}{4521}, \frac{1112}{4521}, \frac{11}{137}, \frac{1000}{4521}, \frac{9}{1507}, \frac{139}{4521}, -\frac{722}{4521})$ $+ \frac{2}{4521}\sqrt{1798237}e^2 \otimes e_7 + \frac{4}{4521}\sqrt{463085}e^4 \otimes e_9$	{123458, 13679, 25689, 47}
9421:4	$0, 0, 0, 0, 0, \frac{1}{563}\sqrt{16885}e^{12}, \frac{2}{563}\sqrt{17499}e^{34}, \frac{1}{563}\sqrt{72145}e^{16},$ $\frac{3}{563}\sqrt{10131}e^{18} + \frac{1}{563}\sqrt{40217}e^{35}$	$(\frac{114}{563}, -\frac{193}{563}, \frac{228}{563}, -\frac{48}{563}, -\frac{79}{563}, -\frac{79}{563}, \frac{180}{563}, \frac{35}{563}, \frac{149}{563})$ $+ \frac{1}{563}\sqrt{129247}e^3 \otimes e_5 + \frac{1}{563}\sqrt{175911}e^1 \otimes e_2$	{1348, 1378, 14578, 158, 234, 237, 2457, 25}
9421:4	$0, 0, 0, 0, 0, \frac{1}{563}\sqrt{16885}e^{12}, \frac{2}{563}\sqrt{17499}e^{34}, \frac{1}{563}\sqrt{72145}e^{16},$ $\frac{3}{563}\sqrt{10131}e^{18} + \frac{1}{563}\sqrt{40217}e^{35}$	$(\frac{114}{563}, -\frac{193}{563}, \frac{228}{563}, -\frac{48}{563}, -\frac{79}{563}, -\frac{79}{563}, \frac{180}{563}, \frac{35}{563}, \frac{149}{563})$ $- \frac{1}{563}\sqrt{129247}e^3 \otimes e_5 + \frac{1}{563}\sqrt{175911}e^1 \otimes e_2$	{1348, 1378, 14578, 158, 234, 237, 2457, 25}
9421:4	$0, 0, 0, 0, 0, \frac{12}{4723}\sqrt{2773}e^{12}, \frac{1128}{4723}e^{34}, \frac{8}{4723}\sqrt{12173}e^{16},$ $\frac{4}{4723}\sqrt{71205}e^{18} + \frac{1128}{4723}\sqrt{16591}e^{35}$	$(\frac{26}{4723}, \frac{2}{4723}, -\frac{806}{4723}, \frac{456}{4723}, \frac{886}{4723}, \frac{28}{4723}, -\frac{350}{4723}, \frac{54}{4723}, \frac{80}{4723})$ $+ \frac{20}{4723}\sqrt{4841}e^1 \otimes e_7 + \frac{4}{4723}\sqrt{75905}e^4 \otimes e_9$	{12348, 169, 2356789, 457}
9421:4	$0, 0, 0, 0, 0, \frac{2}{1639}\sqrt{108885}e^{12}, \frac{4}{1639}\sqrt{11067}e^{34}, \frac{2}{1639}\sqrt{23205}e^{16},$ $\frac{42}{1639}\sqrt{51}e^{18} + \frac{4}{149}\sqrt{357}e^{35}$	$(-\frac{238}{1639}, \frac{673}{1639}, -\frac{413}{1639}, \frac{71}{1639}, \frac{372}{1639}, \frac{435}{1639}, -\frac{342}{1639}, \frac{197}{1639}, -\frac{41}{1639})$ $+ \frac{18}{1639}\sqrt{3451}e^2 \otimes e_9 + \frac{2}{1639}\sqrt{235977}e^5 \otimes e_7$	{123458, 12478, 13679, 1569}
9421:4	$0, 0, 0, 0, 0, \frac{570}{8389}\sqrt{2}e^{12}, \frac{114}{8389}\sqrt{323}e^{34}, \frac{114}{8389}\sqrt{534}e^{16},$ $\frac{57}{8389}\sqrt{994}e^{18} + \frac{1}{8389}\sqrt{3226}e^{35}$	$(\frac{1539}{8389}, -\frac{1710}{8389}, \frac{969}{8389}, -\frac{2280}{8389}, \frac{1938}{8389}, -\frac{171}{8389}, \frac{1311}{8389}, \frac{1368}{8389}, \frac{2907}{8389})$ $+ \frac{1026}{8389}\sqrt{17}e^5 \otimes e_7 + \frac{57}{8389}\sqrt{4814}e^1 \otimes e_2 + \frac{57}{8389}\sqrt{4862}e^3 \otimes e_4$	{13679, 236789}
9421:4	$0, 0, 0, 0, 0, \frac{4}{1653}\sqrt{22965}e^{12}, \frac{1}{551}\sqrt{52054}e^{34}, \frac{1}{1653}\sqrt{1687162}e^{16},$ $\frac{12}{551}\sqrt{1531}e^{18} + \frac{1}{551}\sqrt{58178}e^{35}$	$(\frac{574}{1653}, -\frac{11}{19}, \frac{102}{551}, \frac{45}{551}, \frac{153}{551}, -\frac{383}{1653}, \frac{147}{551}, \frac{191}{1653}, \frac{255}{551})$ $+ \frac{1}{1653}\sqrt{4179630}e^1 \otimes e_2$	{1348, 1378, 14578, 158, 234, 237, 2457, 25}
9421:4	$0, 0, 0, 0, 0, \frac{24}{4129}\sqrt{6302}e^{12}, \frac{24}{4129}\sqrt{4110}e^{34}, \frac{6}{4129}\sqrt{24797}e^{16},$ $\frac{48}{4129}\sqrt{959}e^{18} + \frac{144}{4129}\sqrt{137}e^{35}$	$(-\frac{822}{4129}, \frac{1920}{4129}, \frac{960}{4129}, \frac{63}{4129}, -\frac{1506}{4129}, \frac{1098}{4129}, \frac{1023}{4129}, \frac{276}{4129}, -\frac{546}{4129})$ $+ \frac{6}{4129}\sqrt{201801}e^3 \otimes e_5 + \frac{6}{4129}\sqrt{289481}e^2 \otimes e_9$	{13469, 13679, 145679, 1569}
9421:4	$0, 0, 0, 0, 0, \frac{4}{4039}\sqrt{293799}e^{12}, \frac{4}{4039}\sqrt{201085}e^{34}, \frac{4}{4039}\sqrt{50655}e^{16},$ $\frac{12}{4039}\sqrt{11666}e^{18} + \frac{8}{4039}\sqrt{43287}e^{35}$	$(-\frac{285}{4039}, \frac{1572}{4039}, \frac{786}{4039}, -\frac{1670}{4039}, -\frac{69}{4039}, \frac{1287}{4039}, -\frac{884}{4039}, \frac{1002}{4039}, \frac{717}{4039})$ $+ \frac{12}{4039}\sqrt{69382}e^2 \otimes e_7 + \frac{4}{4039}\sqrt{463570}e^3 \otimes e_4$	{13567, 1467, 379, 4579}
9421:4	$0, 0, 0, 0, 0, \frac{96}{2063}\sqrt{35}e^{12}, \frac{9}{2063}\sqrt{3710}e^{34}, \frac{3}{2063}\sqrt{32690}e^{16},$ $\frac{3}{2063}\sqrt{36890}e^{18} + \frac{30}{2063}\sqrt{21}e^{35}$	$(-\frac{105}{2063}, \frac{402}{2063}, -\frac{195}{2063}, -\frac{225}{2063}, \frac{282}{2063}, \frac{297}{2063}, -\frac{420}{2063}, \frac{192}{2063}, \frac{87}{2063})$ $+ \frac{3}{2063}\sqrt{80430}e^1 \otimes e_7 + \frac{6}{2063}\sqrt{11585}e^2 \otimes e_9$	{12348, 1258, 134569, 169}
9421:4	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{4582}e^{12}, \frac{2}{167}\sqrt{4582}e^{34}, \frac{2}{167}\sqrt{790}e^{16},$ $\frac{2}{167}\sqrt{553}e^{18} + \frac{2}{167}\sqrt{553}e^{35}$	$(-\frac{31}{167}, \frac{109}{167}, -\frac{21}{167}, -\frac{28}{167}, \frac{37}{167}, \frac{78}{167}, -\frac{49}{167}, \frac{47}{167}, \frac{16}{167})$ $+ \frac{2}{167}\sqrt{10823}e^2 \otimes e_7$	{1234589, 1289, 1367, 14567, 23468, 2568, 3579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:4	$0, 0, 0, 0, 0, \frac{253}{2537}\sqrt{2}e^{12}, \frac{23}{2537}\sqrt{1057}e^{34}, \frac{23}{2537}\sqrt{634}e^{16},$ $\frac{138}{2537}\sqrt{33}e^{18} + \frac{23}{2537}\sqrt{463}e^{35}$	$(\frac{161}{2537}, -\frac{368}{2537}, -\frac{529}{2537}, \frac{644}{2537}, \frac{644}{2537}, -\frac{207}{2537}, \frac{115}{2537}, -\frac{46}{2537}, \frac{115}{2537})$ $-\frac{23}{2537}\sqrt{1289}e^5 \otimes e_7 + \frac{23}{2537}\sqrt{1883}e^4 \otimes e_9 + \frac{276}{2537}\sqrt{10}e^1 \otimes e_2$	{13458, 1478, 2345, 247}
9421:4	$0, 0, 0, 0, 0, \frac{253}{2537}\sqrt{2}e^{12}, \frac{23}{2537}\sqrt{1057}e^{34}, \frac{23}{2537}\sqrt{634}e^{16},$ $\frac{138}{2537}\sqrt{33}e^{18} + \frac{23}{2537}\sqrt{463}e^{35}$	$(\frac{161}{2537}, -\frac{368}{2537}, -\frac{529}{2537}, \frac{644}{2537}, \frac{644}{2537}, -\frac{207}{2537}, \frac{115}{2537}, -\frac{46}{2537}, \frac{115}{2537})$ $+\frac{23}{2537}\sqrt{1289}e^5 \otimes e_7 + \frac{23}{2537}\sqrt{1883}e^4 \otimes e_9 + \frac{276}{2537}\sqrt{10}e^1 \otimes e_2$	{13458, 1478, 2345, 247}
9421:4	$0, 0, 0, 0, 0, \frac{20}{5261}\sqrt{1927}e^{12}, \frac{20}{5261}\sqrt{20022}e^{34}, \frac{10}{5261}\sqrt{9259}e^{16},$ $\frac{190}{5261}\sqrt{141}e^{18} + \frac{10}{5261}\sqrt{7003}e^{35}$	$(-\frac{525}{5261}, \frac{755}{5261}, \frac{765}{5261}, \frac{1530}{5261}, -\frac{1585}{5261}, \frac{230}{5261}, \frac{2295}{5261}, \frac{295}{5261}, -\frac{820}{5261})$ $+\frac{10}{5261}\sqrt{124221}e^4 \otimes e_9 + \frac{10}{5261}\sqrt{95269}e^3 \otimes e_5$	{123679, 12569, 36789, 5689}
9421:4	$0, 0, 0, 0, 0, \frac{10}{799}\sqrt{1497}e^{12}, \frac{4}{799}\sqrt{6986}e^{34}, \frac{8}{799}\sqrt{1497}e^{16},$ $\frac{18}{799}\sqrt{499}e^{18} + \frac{4}{799}\sqrt{38922}e^{35}$	$(\frac{6}{47}, \frac{69}{799}, \frac{543}{799}, -\frac{455}{799}, -\frac{168}{799}, \frac{171}{799}, \frac{88}{799}, \frac{273}{799}, \frac{375}{799})$ $+\frac{2}{799}\sqrt{326845}e^3 \otimes e_4$	{12389, 124589, 1356, 146, 23568, 2468, 39, 459}
9421:4	$0, 0, 0, 0, 0, \frac{135}{3181}\sqrt{38}e^{12}, \frac{162}{3181}\sqrt{2}e^{34}, \frac{27}{3181}\sqrt{173}e^{16},$ $\frac{27}{3181}\sqrt{118}e^{18} + \frac{54}{3181}\sqrt{534}e^{35}$	$(-\frac{243}{3181}, \frac{891}{3181}, \frac{54}{3181}, -\frac{675}{3181}, \frac{108}{3181}, \frac{648}{3181}, -\frac{621}{3181}, \frac{405}{3181}, \frac{162}{3181})$ $+\frac{27}{3181}\sqrt{1797}e^3 \otimes e_4 + \frac{27}{3181}\sqrt{1833}e^5 \otimes e_7 + \frac{27}{3181}\sqrt{2213}e^2 \otimes e_9$	{24678, 379}
9421:5	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{695}e^{12}, \frac{1}{97}\sqrt{1185}e^{13} + \frac{2}{97}\sqrt{70}e^{45}, \frac{20}{97}e^{16},$ $\frac{1}{97}\sqrt{1245}e^{18}$	$(\frac{5}{97}, -\frac{20}{97}, \frac{20}{97}, 0, \frac{25}{97}, -\frac{15}{97}, \frac{25}{97}, -\frac{10}{97}, -\frac{5}{97})$ $+\frac{25}{97}e^5 \otimes e_4 + \frac{2}{97}\sqrt{510}e^1 \otimes e_2 + \frac{4}{97}\sqrt{115}e^3 \otimes e_9$	{1348, 1358}
9421:5	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{695}e^{12}, \frac{2}{169}\sqrt{1185}e^{13} + \frac{4}{169}\sqrt{70}e^{45}, \frac{40}{169}e^{16},$ $\frac{2}{169}\sqrt{1245}e^{18}$	$(\frac{10}{169}, -\frac{40}{169}, \frac{40}{169}, \frac{25}{169}, \frac{25}{169}, -\frac{30}{169}, \frac{50}{169}, -\frac{20}{169}, -\frac{10}{169})$ $+\frac{4}{169}\sqrt{510}e^1 \otimes e_2 + \frac{8}{169}\sqrt{115}e^3 \otimes e_9$	{1348, 23457, 237}
9421:5	$0, 0, 0, 0, 0, \frac{2}{209}\sqrt{3503}e^{12}, \frac{2}{209}\sqrt{7797}e^{13} + \frac{4}{209}\sqrt{339}e^{45}, \frac{4}{209}\sqrt{339}e^{16},$ $\frac{2}{209}\sqrt{6441}e^{18}$	$(-\frac{50}{209}, \frac{64}{209}, \frac{140}{209}, \frac{45}{209}, \frac{45}{209}, \frac{14}{209}, \frac{90}{209}, -\frac{36}{209}, -\frac{86}{209})$ $+\frac{8}{209}\sqrt{1243}e^3 \otimes e_9$	{123468, 14579, 179, 2489, 34567, 367}
9421:5	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{149}e^{12}, \frac{40}{349}\sqrt{3}e^{13} + \frac{5}{349}\sqrt{197}e^{45}, \frac{5}{349}\sqrt{186}e^{16},$ $\frac{5}{349}\sqrt{213}e^{18}$	$(\frac{5}{349}, \frac{10}{349}, -\frac{20}{349}, -\frac{65}{349}, \frac{50}{349}, \frac{15}{349}, -\frac{15}{349}, \frac{20}{349}, \frac{25}{349})$ $+\frac{5}{349}\sqrt{102}e^2 \otimes e_7 + \frac{5}{349}\sqrt{230}e^5 \otimes e_9 + \frac{5}{349}\sqrt{299}e^1 \otimes e_3$	{12458, 23689}
9421:5	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{1995}e^{12}, \frac{18}{113}\sqrt{19}e^{13} + \frac{8}{113}\sqrt{57}e^{45}, \frac{8}{113}\sqrt{57}e^{16},$ $\frac{2}{113}\sqrt{1995}e^{18}$	$(-\frac{38}{113}, \frac{78}{113}, \frac{48}{113}, \frac{5}{113}, \frac{5}{113}, \frac{40}{113}, \frac{10}{113}, \frac{2}{113}, -\frac{36}{113})$ $+\frac{4}{113}\sqrt{1311}e^2 \otimes e_9$	{123478, 12458, 128, 134679, 14569, 169}
9421:5	$0, 0, 0, 0, 0, \frac{6}{281}\sqrt{95}e^{12}, \frac{18}{281}\sqrt{11}e^{13} + \frac{6}{281}\sqrt{42}e^{45}, \frac{12}{281}\sqrt{23}e^{16},$ $\frac{6}{281}\sqrt{95}e^{18}$	$(-\frac{6}{281}, \frac{36}{281}, -\frac{24}{281}, -\frac{15}{281}, -\frac{15}{281}, \frac{30}{281}, -\frac{30}{281}, \frac{24}{281}, \frac{18}{281})$ $+\frac{12}{281}\sqrt{26}e^2 \otimes e_9 + \frac{30}{281}\sqrt{6}e^1 \otimes e_3$	{12458, 128, 14569, 169}
9421:5	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{714}e^{12}, \frac{12}{497}\sqrt{70}e^{13} + \frac{12}{71}\sqrt{5}e^{45}, \frac{12}{497}\sqrt{231}e^{16},$ $\frac{4}{497}\sqrt{3927}e^{18}$	$(\frac{45}{497}, -\frac{123}{497}, \frac{85}{497}, \frac{180}{497}, -\frac{50}{497}, -\frac{78}{497}, \frac{130}{497}, -\frac{33}{497}, \frac{12}{497})$ $+\frac{4}{497}\sqrt{4830}e^4 \otimes e_9 + \frac{8}{497}\sqrt{1113}e^1 \otimes e_2$	{13478, 1458, 2345, 247}
9421:5	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{3503}e^{12}, \frac{1}{161}\sqrt{7797}e^{13} + \frac{2}{161}\sqrt{339}e^{45}, \frac{2}{161}\sqrt{339}e^{16},$ $\frac{1}{161}\sqrt{6441}e^{18}$	$(-\frac{25}{161}, \frac{32}{161}, \frac{10}{23}, \frac{79}{161}, -\frac{34}{161}, \frac{1}{23}, \frac{45}{161}, -\frac{18}{161}, -\frac{43}{161})$ $+\frac{113}{161}e^4 \otimes e_5 + \frac{4}{161}\sqrt{1243}e^3 \otimes e_9$	{123468, 123568, 2489, 2589}
9421:5	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{4879}e^{45}, \frac{8}{673}\sqrt{1717}e^{16},$ $\frac{8}{673}\sqrt{4845}e^{18}$	$(-\frac{89}{673}, \frac{109}{673}, \frac{303}{673}, \frac{386}{673}, -\frac{172}{673}, \frac{20}{673}, \frac{214}{673}, -\frac{69}{673}, -\frac{158}{673})$ $+\frac{24}{673}\sqrt{1054}e^4 \otimes e_9$	{123478, 12458, 135679, 169, 23689, 256789, 345, 47}
9421:5	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57}e^{12}, \frac{10}{169}\sqrt{31}e^{13} + \frac{60}{169}e^{45}, \frac{40}{169}\sqrt{3}e^{16},$ $\frac{10}{169}\sqrt{29}e^{18}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{40}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{40}{169}, \frac{50}{169})$ $+\frac{20}{169}\sqrt{14}e^2 \otimes e_7 + \frac{20}{169}\sqrt{23}e^1 \otimes e_3$	{12458, 128, 2345689, 23689}
9421:5	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15}e^{12}, \frac{8}{77}\sqrt{7}e^{13} + \frac{4}{77}\sqrt{22}e^{45}, \frac{20}{77}e^{16},$ $\frac{4}{77}\sqrt{30}e^{18}$	$(\frac{5}{77}, -\frac{1}{11}, -\frac{3}{77}, \frac{16}{77}, -\frac{2}{11}, -\frac{2}{77}, \frac{2}{77}, \frac{3}{77}, \frac{8}{77})$ $+\frac{4}{77}\sqrt{30}e^4 \otimes e_9 + \frac{4}{77}\sqrt{39}e^1 \otimes e_3$	{12458, 169, 23689, 345}
9421:5	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{1995}e^{12}, \frac{9}{85}\sqrt{19}e^{13} + \frac{4}{85}\sqrt{57}e^{45}, \frac{4}{85}\sqrt{57}e^{16},$ $\frac{1}{85}\sqrt{1995}e^{18}$	$(-\frac{19}{85}, \frac{39}{85}, \frac{24}{85}, \frac{31}{85}, -\frac{26}{85}, \frac{4}{17}, \frac{1}{85}, -\frac{18}{85})$ $+\frac{2}{85}\sqrt{1311}e^2 \otimes e_9 + \frac{57}{85}e^4 \otimes e_5$	{123478, 123578, 134679, 135679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:5	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{129}e^{12}, \frac{1}{27}\sqrt{43}e^{13} + \frac{2}{27}\sqrt{43}e^{45}, \frac{2}{27}\sqrt{43}e^{16},$ $\frac{1}{27}\sqrt{129}e^{18}$	$(\frac{1}{27}, \frac{4}{27}, \frac{2}{9}, \frac{25}{27}, -\frac{2}{3}, \frac{5}{27}, \frac{7}{27}, \frac{2}{9}, \frac{7}{27})$ $+ \frac{43}{27}e^4 \otimes e_5$	{123478, 123578, 134679, 135679, 246789, 256789, 47, 57}
9421:5	$0, 0, 0, 0, 0, \frac{56}{1545}\sqrt{89}e^{12}, \frac{8}{1545}\sqrt{1869}e^{13} + \frac{1}{1545}\sqrt{681562}e^{45},$ $\frac{1}{1545}\sqrt{115878}e^{16}, \frac{16}{1545}\sqrt{1246}e^{18}$	$(-\frac{98}{515}, \frac{608}{1545}, \frac{93}{515}, \frac{349}{1545}, -\frac{364}{1545}, \frac{314}{1545}, -\frac{1}{103}, \frac{4}{309}, -\frac{274}{1545})$ $+ \frac{1}{1545}\sqrt{808654}e^2 \otimes e_7 + \frac{1}{1545}\sqrt{888398}e^4 \otimes e_9$	{12458, 135679, 23689, 47}
9421:5	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{165}e^{12}, \frac{2}{43}\sqrt{187}e^{13} + \frac{4}{43}\sqrt{22}e^{45}, \frac{4}{43}\sqrt{55}e^{16},$ $\frac{2}{43}\sqrt{165}e^{18}$	$(\frac{10}{43}, -\frac{8}{43}, -\frac{12}{43}, -\frac{1}{43}, -\frac{1}{43}, \frac{2}{43}, -\frac{2}{43}, \frac{12}{43}, \frac{22}{43})$ $+ \frac{12}{43}\sqrt{11}e^1 \otimes e_3$	{12458, 128, 14569, 169, 2345689, 23689, 3, 345}
9421:6	$0, 0, 0, 0, 0, \frac{4}{799}\sqrt{38922}e^{12}, \frac{18}{799}\sqrt{499}e^{13} + \frac{10}{799}\sqrt{1497}e^{45},$ $\frac{8}{799}\sqrt{1497}e^{26}, \frac{4}{799}\sqrt{6986}e^{28}$	$(\frac{568}{799}, -\frac{160}{799}, -\frac{430}{799}, \frac{69}{799}, \frac{69}{799}, \frac{24}{47}, \frac{138}{799}, \frac{248}{799}, \frac{88}{799})$ $+ \frac{2}{799}\sqrt{326845}e^1 \otimes e_3$	{124589, 1289, 14568, 168, 23456, 236, 3459, 39}
9421:6	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{39}e^{12}, \frac{4}{79}\sqrt{39}e^{13} + \frac{6}{79}\sqrt{26}e^{45}, \frac{2}{79}\sqrt{286}e^{26},$ $\frac{6}{79}\sqrt{26}e^{28}$	$(-\frac{12}{79}, \frac{14}{79}, 0, \frac{7}{79}, -\frac{19}{79}, \frac{2}{79}, -\frac{12}{79}, \frac{16}{79}, \frac{30}{79})$ $+ \frac{26}{79}e^4 \otimes e_5 + \frac{6}{79}\sqrt{78}e^2 \otimes e_7$	{146789, 156789, 347, 357}
9421:6	$0, 0, 0, 0, 0, \frac{9}{2651}\sqrt{862}e^{12}, \frac{18}{2651}\sqrt{309}e^{13} + \frac{18}{2651}\sqrt{183}e^{45},$ $\frac{18}{2651}\sqrt{286}e^{26}, \frac{18}{2651}\sqrt{370}e^{28}$	$(\frac{18}{241}, -\frac{27}{2651}, \frac{306}{2651}, -\frac{54}{2651}, -\frac{54}{2651}, \frac{171}{2651}, -\frac{108}{2651}, \frac{144}{2651}, \frac{117}{2651})$ $+ \frac{54}{2651}\sqrt{78}e^2 \otimes e_7 + \frac{9}{2651}\sqrt{1870}e^1 \otimes e_9$	{123458, 1238, 24569, 269}
9421:6	$0, 0, 0, 0, 0, \frac{8}{4039}\sqrt{43287}e^{12}, \frac{12}{4039}\sqrt{11666}e^{13} + \frac{4}{4039}\sqrt{293799}e^{45},$ $\frac{4}{4039}\sqrt{50655}e^{26}, \frac{4}{4039}\sqrt{201085}e^{28}$	$(\frac{1783}{4039}, -\frac{127}{577}, -\frac{673}{4039}, \frac{1572}{4039}, -\frac{66}{577}, \frac{894}{4039}, \frac{1110}{4039}, \frac{5}{4039}, -\frac{884}{4039})$ $+ \frac{12}{4039}\sqrt{69382}e^4 \otimes e_9 + \frac{4}{4039}\sqrt{463570}e^1 \otimes e_3$	{12458, 1689, 2369, 345}
9421:6	$0, 0, 0, 0, 0, \frac{9}{1697}\sqrt{8854}e^{12}, \frac{18}{1697}\sqrt{4845}e^{13} + \frac{18}{1697}\sqrt{627}e^{45},$ $\frac{36}{1697}\sqrt{247}e^{26}, \frac{36}{1697}\sqrt{1159}e^{28}$	$(\frac{954}{1697}, -\frac{513}{1697}, -\frac{198}{1697}, \frac{378}{1697}, \frac{378}{1697}, \frac{441}{1697}, \frac{756}{1697}, -\frac{72}{1697}, -\frac{585}{1697})$ $+ \frac{9}{1697}\sqrt{52630}e^1 \otimes e_9$	{12348, 124578, 1278, 2345679, 23679, 2469}
9421:6	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{7}e^{12}, \frac{3}{77}\sqrt{35}e^{13} + \frac{3}{77}\sqrt{14}e^{45}, \frac{1}{77}\sqrt{231}e^{26},$ $\frac{1}{77}\sqrt{357}e^{28}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{2}{11}, 0, 0, -\frac{1}{11}, 0, 0, \frac{1}{11})$ $- \frac{1}{77}\sqrt{385}e^3 \otimes e_9 + \frac{9}{77}\sqrt{7}e^2 \otimes e_7$	{123458, 1238, 146789, 24569, 269, 347}
9421:6	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{7}e^{12}, \frac{3}{77}\sqrt{35}e^{13} + \frac{3}{77}\sqrt{14}e^{45}, \frac{1}{77}\sqrt{231}e^{26},$ $\frac{1}{77}\sqrt{357}e^{28}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{2}{11}, 0, 0, -\frac{1}{11}, 0, 0, \frac{1}{11})$ $+ \frac{1}{77}\sqrt{385}e^3 \otimes e_9 + \frac{9}{77}\sqrt{7}e^2 \otimes e_7$	{123458, 1238, 146789, 24569, 269, 347}
9421:6	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{7}e^{12}, \frac{6}{161}\sqrt{35}e^{13} + \frac{6}{161}\sqrt{14}e^{45}, \frac{2}{161}\sqrt{231}e^{26},$ $\frac{2}{161}\sqrt{357}e^{28}$	$(-\frac{4}{23}, \frac{2}{23}, \frac{4}{23}, -\frac{1}{23}, \frac{1}{23}, -\frac{2}{23}, 0, 0, \frac{2}{23})$ $+ \frac{18}{161}\sqrt{7}e^2 \otimes e_7 + \frac{2}{161}\sqrt{385}e^3 \otimes e_9 + \frac{2}{23}e^5 \otimes e_4$	{146789, 156789, 347, 357}
9421:6	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{7}e^{12}, \frac{6}{161}\sqrt{35}e^{13} + \frac{6}{161}\sqrt{14}e^{45}, \frac{2}{161}\sqrt{231}e^{26},$ $\frac{2}{161}\sqrt{357}e^{28}$	$(-\frac{4}{23}, \frac{2}{23}, \frac{4}{23}, -\frac{1}{23}, \frac{1}{23}, -\frac{2}{23}, 0, 0, \frac{2}{23})$ $+ \frac{18}{161}\sqrt{7}e^2 \otimes e_7 - \frac{2}{161}\sqrt{385}e^3 \otimes e_9 + \frac{2}{23}e^5 \otimes e_4$	{146789, 156789, 347, 357}
9421:6	$0, 0, 0, 0, 0, \frac{18}{4933}\sqrt{8854}e^{12}, \frac{36}{4933}\sqrt{4845}e^{13} + \frac{36}{4933}\sqrt{627}e^{45},$ $\frac{72}{4933}\sqrt{247}e^{26}, \frac{72}{4933}\sqrt{1159}e^{28}$	$(\frac{1908}{4933}, -\frac{1026}{4933}, -\frac{396}{4933}, \frac{2295}{4933}, -\frac{783}{4933}, \frac{882}{4933}, \frac{1512}{4933}, -\frac{144}{4933}, -\frac{1170}{4933})$ $+ \frac{18}{4933}\sqrt{52630}e^1 \otimes e_9 + \frac{3078}{4933}e^4 \otimes e_5$	{12348, 12358, 2469, 2569}
9421:6	$0, 0, 0, 0, 0, \frac{92}{4213}\sqrt{258}e^{12}, \frac{414}{4213}\sqrt{5}e^{13} + \frac{46}{4213}\sqrt{921}e^{45},$ $\frac{184}{4213}\sqrt{66}e^{26}, \frac{92}{4213}\sqrt{178}e^{28}$	$(\frac{184}{4213}, \frac{368}{4213}, -\frac{874}{4213}, -\frac{345}{4213}, -\frac{345}{4213}, \frac{552}{4213}, -\frac{690}{4213}, \frac{920}{4213}, \frac{1288}{4213})$ $+ \frac{1656}{4213}\sqrt{2}e^2 \otimes e_7 + \frac{46}{4213}\sqrt{1045}e^1 \otimes e_3$	{146789, 347}
9421:6	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{553}e^{12}, \frac{2}{167}\sqrt{553}e^{13} + \frac{2}{167}\sqrt{4582}e^{45}, \frac{2}{167}\sqrt{790}e^{26},$ $\frac{2}{167}\sqrt{4582}e^{28}$	$(\frac{44}{167}, -\frac{31}{167}, \frac{37}{167}, \frac{109}{167}, -\frac{28}{167}, \frac{13}{167}, \frac{81}{167}, -\frac{18}{167}, -\frac{49}{167})$ $+ \frac{2}{167}\sqrt{10823}e^4 \otimes e_9$	{1235679, 1269, 1347, 145, 23458, 2478, 3689, 56789}
9421:6	$0, 0, 0, 0, 0, \frac{1}{1607}\sqrt{998894}e^{12}, \frac{3}{1607}\sqrt{211562}e^{13} + \frac{3}{1607}\sqrt{45526}e^{45},$ $\frac{2}{1607}\sqrt{56238}e^{26}, \frac{2}{1607}\sqrt{441870}e^{28}$	$(-\frac{86}{1607}, -\frac{119}{1607}, \frac{896}{1607}, \frac{405}{1607}, \frac{405}{1607}, -\frac{205}{1607}, \frac{810}{1607}, -\frac{324}{1607}, -\frac{443}{1607})$ $+ \frac{1}{1607}\sqrt{3628690}e^3 \otimes e_9$	{1245679, 12679, 134, 234578, 2378, 4689}
9421:6	$0, 0, 0, 0, 0, \frac{2}{4553}\sqrt{998894}e^{12}, \frac{6}{4553}\sqrt{211562}e^{13} + \frac{6}{4553}\sqrt{45526}e^{45},$ $\frac{4}{4553}\sqrt{56238}e^{26}, \frac{4}{4553}\sqrt{441870}e^{28}$	$(-\frac{172}{4553}, -\frac{238}{4553}, \frac{1792}{4553}, \frac{2149}{4553}, -\frac{529}{4553}, -\frac{410}{4553}, \frac{1620}{4553}, -\frac{648}{4553}, -\frac{886}{4553})$ $+ \frac{2678}{4553}e^4 \otimes e_5 + \frac{2}{4553}\sqrt{3628690}e^3 \otimes e_9$	{134, 135, 4689, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:6	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{39}e^{12}, \frac{2}{33}\sqrt{39}e^{13} + \frac{1}{11}\sqrt{26}e^{45}, \frac{1}{33}\sqrt{286}e^{26},$ $\frac{1}{11}\sqrt{26}e^{28}$	$(-\frac{2}{11}, \frac{7}{33}, 0, -\frac{1}{11}, -\frac{1}{11}, \frac{1}{33}, -\frac{2}{11}, \frac{8}{33}, \frac{5}{11})$ $+ \frac{1}{11}\sqrt{78}e^2 \otimes e_7$	{123458, 1238, 146789, 24569, 269, 347}
9421:6	$0, 0, 0, 0, 0, \frac{32}{161}\sqrt{3}e^{12}, \frac{32}{161}\sqrt{3}e^{13} + \frac{48}{161}\sqrt{2}e^{45}, \frac{16}{161}\sqrt{22}e^{26},$ $\frac{48}{161}\sqrt{2}e^{28}$	$(\frac{3}{23}, \frac{1}{23}, \frac{27}{161}, \frac{152}{161}, -\frac{104}{161}, \frac{4}{23}, \frac{48}{161}, \frac{5}{23}, \frac{6}{23})$ $+ \frac{256}{161}e^4 \otimes e_5$	{12478, 12578, 146789, 156789, 234679, 235679, 347, 357}
9421:6	$0, 0, 0, 0, 0, \frac{23}{8951}\sqrt{2202}e^{12}, \frac{138}{8951}\sqrt{34}e^{13} + \frac{46}{8951}\sqrt{1254}e^{45},$ $\frac{253}{8951}\sqrt{30}e^{26}, \frac{23}{8951}\sqrt{4690}e^{28}$	$(\frac{92}{8951}, \frac{184}{8951}, -\frac{437}{8951}, \frac{1518}{8951}, \frac{1173}{8951}, \frac{276}{8951}, -\frac{345}{8951}, \frac{460}{8951}, \frac{644}{8951})$ $+ \frac{207}{8951}\sqrt{110}e^2 \otimes e_7 + \frac{23}{8951}\sqrt{1630}e^1 \otimes e_3 + \frac{69}{8951}\sqrt{598}e^5 \otimes e_9$	{146789, 357}
9421:6	$0, 0, 0, 0, 0, \frac{2}{1001}\sqrt{3293}e^{12}, \frac{2}{1001}\sqrt{3293}e^{13} + \frac{8}{1001}\sqrt{703}e^{45},$ $\frac{4}{1001}\sqrt{2035}e^{26}, \frac{8}{1001}\sqrt{703}e^{28}$	$(-\frac{58}{1001}, \frac{47}{1001}, \frac{31}{1001}, \frac{157}{1001}, -\frac{184}{1001}, -\frac{1}{91}, -\frac{27}{1001}, \frac{36}{1001}, \frac{83}{1001})$ $+ \frac{12}{1001}\sqrt{555}e^2 \otimes e_7 + \frac{2}{1001}\sqrt{12617}e^4 \otimes e_9$	{123458, 156789, 269, 347}
9421:6	$0, 0, 0, 0, 0, \frac{46}{2371}\sqrt{258}e^{12}, \frac{207}{2371}\sqrt{5}e^{13} + \frac{23}{2371}\sqrt{921}e^{45},$ $\frac{92}{2371}\sqrt{66}e^{26}, \frac{46}{2371}\sqrt{178}e^{28}$	$(\frac{92}{2371}, \frac{184}{2371}, -\frac{437}{2371}, -\frac{437}{2371}, \frac{92}{2371}, \frac{276}{2371}, -\frac{345}{2371}, \frac{460}{2371}, \frac{644}{2371})$ $+ \frac{23}{2371}\sqrt{1045}e^1 \otimes e_3 + \frac{529}{2371}e^5 \otimes e_4 + \frac{828}{2371}\sqrt{2}e^2 \otimes e_7$	{146789, 156789, 347, 357}
9421:6	$0, 0, 0, 0, 0, \frac{46}{2371}\sqrt{258}e^{12}, \frac{207}{2371}\sqrt{5}e^{13} + \frac{23}{2371}\sqrt{921}e^{45},$ $\frac{92}{2371}\sqrt{66}e^{26}, \frac{46}{2371}\sqrt{178}e^{28}$	$(\frac{92}{2371}, \frac{184}{2371}, -\frac{437}{2371}, -\frac{437}{2371}, \frac{92}{2371}, \frac{276}{2371}, -\frac{345}{2371}, \frac{460}{2371}, \frac{644}{2371})$ $+ \frac{23}{2371}\sqrt{1045}e^1 \otimes e_3 - \frac{529}{2371}e^5 \otimes e_4 + \frac{828}{2371}\sqrt{2}e^2 \otimes e_7$	{146789, 156789, 347, 357}
9421:7	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{21}e^{12}, \frac{3}{34}\sqrt{14}e^{13}, \frac{1}{34}\sqrt{105}e^{16},$ $\frac{1}{17}\sqrt{42}e^{18} + \frac{2}{17}\sqrt{21}e^{34}$	$(-\frac{7}{34}, \frac{1}{2}, \frac{1}{4}, -\frac{25}{68}, \frac{9}{68}, \frac{5}{17}, \frac{3}{68}, \frac{34}{17}, -\frac{2}{17})$ $+ \frac{1}{34}\sqrt{861}e^2 \otimes e_9 + \frac{3}{34}\sqrt{42}e^3 \otimes e_4$	{135679, 13679, 14569, 1469}
9421:7	$0, 0, 0, 0, 0, \frac{36}{3317}\sqrt{77}e^{12}, \frac{18}{3317}\sqrt{2233}e^{13}, \frac{18}{3317}\sqrt{561}e^{16},$ $\frac{18}{3317}\sqrt{2607}e^{18} + \frac{18}{3317}\sqrt{10549}e^{34}$	$(-\frac{1}{31}, \frac{384}{3317}, -\frac{26}{107}, \frac{869}{3317}, \frac{1845}{3317}, \frac{277}{3317}, -\frac{913}{3317}, \frac{170}{3317}, \frac{63}{3317})$ $+ \frac{144}{3317}\sqrt{253}e^4 \otimes e_7 + \frac{18}{3317}\sqrt{16379}e^5 \otimes e_9$	{13458, 1578, 36789, 4689}
9421:7	$0, 0, 0, 0, 0, \frac{16}{2911}\sqrt{3278}e^{12}, \frac{16}{2911}\sqrt{8855}e^{13}, \frac{176}{2911}\sqrt{29}e^{16},$ $\frac{16}{2911}\sqrt{4290}e^{18} + \frac{16}{2911}\sqrt{935}e^{34}$	$(\frac{546}{2911}, -\frac{862}{2911}, -\frac{589}{2911}, \frac{1365}{2911}, \frac{301}{2911}, -\frac{316}{2911}, \frac{43}{2911}, \frac{230}{2911}, \frac{776}{2911})$ $+ \frac{16}{2911}\sqrt{12639}e^4 \otimes e_7 + \frac{16}{2911}\sqrt{16071}e^1 \otimes e_2$	{13458, 1348, 1578, 178}
9421:7	$0, 0, 0, 0, 0, \frac{16}{2911}\sqrt{3278}e^{12}, \frac{16}{2911}\sqrt{8855}e^{13}, \frac{176}{2911}\sqrt{29}e^{16},$ $\frac{16}{2911}\sqrt{4290}e^{18} + \frac{16}{2911}\sqrt{935}e^{34}$	$(\frac{546}{2911}, -\frac{862}{2911}, \frac{560}{2911}, \frac{216}{2911}, -\frac{848}{2911}, -\frac{316}{2911}, \frac{1106}{2911}, \frac{230}{2911}, \frac{776}{2911})$ $+ \frac{16}{2911}\sqrt{12639}e^3 \otimes e_5 + \frac{16}{2911}\sqrt{16071}e^1 \otimes e_2$	{1348, 1578, 2347, 25}
9421:7	$0, 0, 0, 0, 0, \frac{2}{325}\sqrt{4991}e^{12}, \frac{1}{325}\sqrt{8246}e^{13}, \frac{7}{325}\sqrt{62}e^{16},$ $\frac{4}{325}\sqrt{651}e^{18} + \frac{1}{325}\sqrt{20398}e^{34}$	$(-\frac{56}{325}, \frac{27}{65}, -\frac{2}{25}, -\frac{7}{325}, \frac{184}{325}, \frac{79}{325}, -\frac{82}{325}, \frac{23}{325}, -\frac{33}{325})$ $+ \frac{12}{325}\sqrt{434}e^5 \otimes e_9 + \frac{1}{325}\sqrt{61194}e^2 \otimes e_7$	{123458, 14679, 24689, 3457}
9421:7	$0, 0, 0, 0, 0, \frac{5}{163}\sqrt{70}e^{12}, \frac{5}{163}\sqrt{122}e^{13}, \frac{10}{163}\sqrt{62}e^{16},$ $\frac{5}{163}\sqrt{246}e^{18} + \frac{10}{163}\sqrt{19}e^{34}$	$(\frac{40}{163}, -\frac{60}{163}, -\frac{5}{163}, \frac{65}{163}, -\frac{35}{163}, -\frac{20}{163}, \frac{35}{163}, \frac{20}{163}, \frac{60}{163})$ $+ \frac{10}{163}\sqrt{177}e^1 \otimes e_2 + \frac{5}{163}\sqrt{438}e^4 \otimes e_5$	{1348, 1578, 2347, 25}
9421:7	$0, 0, 0, 0, 0, \frac{1}{1088}\sqrt{23870}e^{12}, \frac{1}{272}\sqrt{15686}e^{13}, \frac{1}{1088}\sqrt{66154}e^{16},$ $\frac{31}{544}\sqrt{33}e^{18} + \frac{1}{544}\sqrt{51491}e^{34}$	$(\frac{27}{1088}, \frac{7}{68}, -\frac{175}{2176}, \frac{33}{128}, -\frac{857}{2176}, \frac{139}{1088}, -\frac{121}{2176}, \frac{83}{544}, \frac{193}{1088})$ $+ \frac{1}{1088}\sqrt{344751}e^3 \otimes e_5 + \frac{1}{1088}\sqrt{344751}e^4 \otimes e_7$	{134, 157, 3679, 4569}
9421:7	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{12802}e^{12}, \frac{1}{407}\sqrt{5882}e^{13}, \frac{1}{407}\sqrt{26123}e^{16},$ $\frac{1}{407}\sqrt{47229}e^{18} + \frac{1}{407}\sqrt{6055}e^{34}$	$(\frac{103}{814}, -\frac{243}{814}, \frac{8}{407}, \frac{25}{407}, \frac{206}{407}, -\frac{70}{407}, \frac{119}{814}, -\frac{1}{22}, \frac{3}{37})$ $+ \frac{1}{407}\sqrt{56571}e^5 \otimes e_9 + \frac{1}{407}\sqrt{69546}e^1 \otimes e_2$	{13458, 1578, 23457, 25}
9421:7	$0, 0, 0, 0, 0, \frac{1}{1301}\sqrt{580830}e^{12}, \frac{5}{1301}\sqrt{10190}e^{13}, \frac{28}{1301}\sqrt{1019}e^{16},$ $\frac{1}{1301}\sqrt{654198}e^{18} + \frac{12}{1301}\sqrt{1019}e^{34}$	$(\frac{178}{1301}, -\frac{55}{1301}, \frac{177}{1301}, \frac{302}{1301}, \frac{841}{1301}, \frac{123}{1301}, \frac{355}{1301}, \frac{301}{1301}, \frac{479}{1301})$ $+ \frac{3}{1301}\sqrt{242522}e^1 \otimes e_5$	{1238, 12478, 13469, 1679, 23456789, 25689, 357, 45}
9421:7	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{651}e^{12}, \frac{4}{71}\sqrt{93}e^{13}, \frac{1}{71}\sqrt{403}e^{16},$ $\frac{3}{71}\sqrt{93}e^{18} + \frac{1}{71}\sqrt{651}e^{34}$	$(\frac{10}{71}, -\frac{21}{71}, \frac{20}{71}, -\frac{11}{71}, \frac{6}{71}, -\frac{11}{71}, \frac{30}{71}, -\frac{1}{71}, \frac{9}{71})$ $- \frac{1}{71}\sqrt{1705}e^3 \otimes e_4 + \frac{5}{71}\sqrt{93}e^1 \otimes e_2$	{1358, 138, 14578, 1478, 2357, 237, 24, 245}
9421:7	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{651}e^{12}, \frac{4}{71}\sqrt{93}e^{13}, \frac{1}{71}\sqrt{403}e^{16},$ $\frac{3}{71}\sqrt{93}e^{18} + \frac{1}{71}\sqrt{651}e^{34}$	$(\frac{10}{71}, -\frac{21}{71}, \frac{20}{71}, -\frac{11}{71}, \frac{6}{71}, -\frac{11}{71}, \frac{30}{71}, -\frac{1}{71}, \frac{9}{71})$ $+ \frac{1}{71}\sqrt{1705}e^3 \otimes e_4 + \frac{5}{71}\sqrt{93}e^1 \otimes e_2$	{1358, 138, 14578, 1478, 2357, 237, 24, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:7	$0, 0, 0, 0, 0, \frac{3}{172}\sqrt{371}e^{12}, \frac{1}{172}\sqrt{13197}e^{13}, \frac{7}{344}\sqrt{318}e^{16},$ $\frac{3}{344}\sqrt{742}e^{18} + \frac{3}{172}\sqrt{371}e^{34}$	$(-\frac{35}{344}, \frac{61}{344}, \frac{115}{688}, -\frac{203}{688}, \frac{363}{688}, \frac{13}{172}, \frac{45}{688}, -\frac{9}{344}, -\frac{11}{86})$ $+ \frac{5}{344}\sqrt{2067}e^3 \otimes e_4 + \frac{5}{344}\sqrt{2067}e^5 \otimes e_7$	{135, 147, 2378, 2458}
9421:7	$0, 0, 0, 0, 0, \frac{3}{142}\sqrt{434}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{3}{142}\sqrt{119}e^{16},$ $\frac{21}{142}\sqrt{2}e^{18} + \frac{6}{71}\sqrt{42}e^{34}$	$(-\frac{21}{142}, \frac{30}{71}, -\frac{45}{284}, \frac{39}{284}, \frac{33}{284}, \frac{39}{142}, -\frac{87}{284}, \frac{9}{71}, -\frac{3}{142})$ $+ \frac{3}{142}\sqrt{1043}e^2 \otimes e_9 + \frac{3}{142}\sqrt{714}e^4 \otimes e_7$	{135679, 13679, 14569, 1469}
9421:7	$0, 0, 0, 0, 0, \frac{3}{142}\sqrt{434}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{3}{142}\sqrt{119}e^{16},$ $\frac{21}{142}\sqrt{2}e^{18} + \frac{6}{71}\sqrt{42}e^{34}$	$(-\frac{21}{142}, \frac{30}{71}, \frac{57}{284}, -\frac{63}{284}, -\frac{69}{284}, \frac{39}{142}, \frac{15}{142}, \frac{9}{71}, -\frac{3}{142})$ $+ \frac{3}{142}\sqrt{1043}e^2 \otimes e_9 + \frac{3}{142}\sqrt{714}e^3 \otimes e_5$	{123478, 1258, 13679, 14569}
9421:7	$0, 0, 0, 0, 0, \frac{22}{389}\sqrt{22}e^{12}, \frac{11}{389}\sqrt{138}e^{13}, \frac{11}{389}\sqrt{82}e^{16},$ $\frac{11}{389}\sqrt{186}e^{18} + \frac{22}{389}\sqrt{5}e^{34}$	$(\frac{33}{389}, -\frac{88}{389}, \frac{66}{389}, -\frac{55}{389}, \frac{132}{389}, -\frac{55}{389}, \frac{99}{389}, -\frac{22}{389}, \frac{11}{389})$ $- \frac{11}{389}\sqrt{190}e^3 \otimes e_4 + \frac{198}{389}e^1 \otimes e_2 + \frac{22}{389}\sqrt{51}e^5 \otimes e_9$	{1358, 14578, 2357, 245}
9421:7	$0, 0, 0, 0, 0, \frac{22}{389}\sqrt{22}e^{12}, \frac{11}{389}\sqrt{138}e^{13}, \frac{11}{389}\sqrt{82}e^{16},$ $\frac{11}{389}\sqrt{186}e^{18} + \frac{22}{389}\sqrt{5}e^{34}$	$(\frac{33}{389}, -\frac{88}{389}, \frac{66}{389}, -\frac{55}{389}, \frac{132}{389}, -\frac{55}{389}, \frac{99}{389}, -\frac{22}{389}, \frac{11}{389})$ $+ \frac{11}{389}\sqrt{190}e^3 \otimes e_4 + \frac{198}{389}e^1 \otimes e_2 + \frac{22}{389}\sqrt{51}e^5 \otimes e_9$	{1358, 14578, 2357, 245}
9421:7	$0, 0, 0, 0, 0, \frac{26}{1211}\sqrt{1319}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{1}{1211}\sqrt{145090}e^{16},$ $\frac{4}{1211}\sqrt{27699}e^{18} + \frac{1}{1211}\sqrt{2638}e^{34}$	$(-\frac{40}{173}, \frac{873}{1211}, -\frac{166}{1211}, \frac{199}{1211}, \frac{200}{1211}, \frac{593}{1211}, -\frac{446}{1211}, \frac{313}{1211}, \frac{33}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^2 \otimes e_7$	{1234, 12345, 1456789, 146789, 24569, 2469, 34578, 3478}
9421:7	$0, 0, 0, 0, 0, \frac{1}{1601}\sqrt{211782}e^{12}, \frac{1}{1601}\sqrt{590286}e^{13}, \frac{2}{1601}\sqrt{79606}e^{16},$ $\frac{1}{1601}\sqrt{319926}e^{18} + \frac{12}{1601}\sqrt{1502}e^{34}$	$(\frac{70}{1601}, \frac{33}{1601}, \frac{497}{1601}, -\frac{254}{1601}, -\frac{681}{1601}, \frac{103}{1601}, \frac{567}{1601}, \frac{173}{1601}, \frac{243}{1601})$ $+ \frac{2}{1601}\sqrt{214786}e^3 \otimes e_4 + \frac{3}{1601}\sqrt{142690}e^1 \otimes e_5$	{1238, 12478, 357, 45}
9421:7	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{291}e^{12}, \frac{1}{77}\sqrt{6402}e^{13}, \frac{1}{77}\sqrt{1358}e^{16},$ $\frac{1}{77}\sqrt{582}e^{18} + \frac{2}{77}\sqrt{291}e^{34}$	$(-\frac{5}{77}, \frac{18}{77}, \frac{50}{77}, -\frac{47}{77}, \frac{12}{77}, \frac{13}{77}, \frac{45}{77}, \frac{8}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{12610}e^3 \otimes e_4$	{13, 135, 1457, 147, 23578, 2378, 2458, 248}
9421:7	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{1}{1211}\sqrt{145090}e^{16},$ $\frac{4}{1211}\sqrt{27699}e^{18} + \frac{26}{1211}\sqrt{1319}e^{34}$	$(\frac{57}{1211}, \frac{199}{1211}, -\frac{503}{1211}, \frac{873}{1211}, \frac{200}{1211}, \frac{256}{1211}, -\frac{446}{1211}, \frac{313}{1211}, \frac{370}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^4 \otimes e_7$	{1234, 12345, 1257, 127, 235679, 23679, 24569, 2469}
9421:7	$0, 0, 0, 0, 0, \frac{4}{3073}\sqrt{133222}e^{12}, \frac{2}{3073}\sqrt{562242}e^{13}, \frac{4}{3073}\sqrt{15806}e^{16},$ $\frac{2}{3073}\sqrt{247251}e^{18} + \frac{2}{3073}\sqrt{19193}e^{34}$	$(-\frac{365}{3073}, \frac{1223}{3073}, \frac{1193}{3073}, -\frac{1065}{3073}, -\frac{1035}{3073}, \frac{858}{3073}, \frac{828}{3073}, \frac{493}{3073}, \frac{128}{3073})$ $+ \frac{2}{3073}\sqrt{1541085}e^2 \otimes e_5 + \frac{2}{3073}\sqrt{1555762}e^3 \otimes e_4$	{135689, 1456789, 23679, 2469}
9421:7	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{2}{157}\sqrt{2407}e^{13}, \frac{2}{157}\sqrt{1577}e^{16},$ $\frac{6}{157}\sqrt{415}e^{18} + \frac{2}{157}\sqrt{3901}e^{34}$	$(-\frac{11}{157}, \frac{24}{157}, \frac{10}{157}, -\frac{19}{157}, 1, \frac{13}{157}, -\frac{1}{157}, \frac{2}{157}, -\frac{9}{157})$ $+ \frac{2}{157}\sqrt{10707}e^5 \otimes e_9$	{1234578, 1258, 13679, 1469, 23689, 246789, 345, 57}
9421:7	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{1}{1211}\sqrt{145090}e^{16},$ $\frac{4}{1211}\sqrt{27699}e^{18} + \frac{26}{1211}\sqrt{1319}e^{34}$	$(\frac{57}{1211}, \frac{199}{1211}, \frac{508}{1211}, -\frac{138}{1211}, -\frac{811}{1211}, \frac{256}{1211}, \frac{565}{1211}, \frac{313}{1211}, \frac{370}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_5$	{1234, 1257, 13689, 1456789, 23679, 24569, 3478, 58}
9421:7	$0, 0, 0, 0, 0, \frac{2}{3605}\sqrt{546117}e^{12}, \frac{2}{3605}\sqrt{459591}e^{13}, \frac{2}{3605}\sqrt{301587}e^{16},$ $\frac{2}{3605}\sqrt{162393}e^{18} + \frac{2}{3605}\sqrt{128535}e^{34}$	$(-\frac{24}{515}, \frac{187}{721}, -\frac{151}{3605}, \frac{582}{3605}, -\frac{1422}{3605}, \frac{767}{3605}, -\frac{319}{3605}, \frac{599}{3605}, \frac{431}{3605})$ $+ \frac{2}{3605}\sqrt{1127973}e^1 \otimes e_5 + \frac{2}{3605}\sqrt{895983}e^2 \otimes e_7$	{1238, 1679, 25689, 357}
9421:7	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{291}e^{12}, \frac{1}{77}\sqrt{6402}e^{13}, \frac{1}{77}\sqrt{1358}e^{16},$ $\frac{1}{77}\sqrt{582}e^{18} + \frac{2}{77}\sqrt{291}e^{34}$	$(-\frac{5}{77}, \frac{18}{77}, -\frac{15}{77}, \frac{18}{77}, 1, \frac{13}{77}, -\frac{20}{77}, \frac{8}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{12610}e^5 \otimes e_7$	{12345689, 126789, 135, 147, 2378, 2458, 34679, 569}
9421:7	$0, 0, 0, 0, 0, \frac{36}{3401}\sqrt{1270}e^{12}, \frac{18}{3401}\sqrt{1995}e^{13}, \frac{18}{3401}\sqrt{3745}e^{16},$ $\frac{72}{3401}\sqrt{235}e^{18} + \frac{72}{3401}\sqrt{165}e^{34}$	$(-\frac{270}{3401}, \frac{921}{3401}, \frac{255}{3401}, -\frac{144}{3401}, -\frac{1080}{3401}, \frac{651}{3401}, -\frac{15}{3401}, \frac{381}{3401}, \frac{111}{3401})$ $+ \frac{18}{3401}\sqrt{7765}e^2 \otimes e_9 + \frac{36}{3401}\sqrt{1830}e^1 \otimes e_5$	{123478, 128, 13679, 1469}
9421:7	$0, 0, 0, 0, 0, \frac{2}{479}\sqrt{5038}e^{12}, \frac{8}{479}\sqrt{1374}e^{13}, \frac{2}{479}\sqrt{5954}e^{16},$ $\frac{1}{479}\sqrt{25419}e^{18} + \frac{1}{479}\sqrt{15343}e^{34}$	$(-\frac{185}{958}, \frac{449}{958}, \frac{88}{479}, -\frac{141}{479}, \frac{36}{479}, \frac{132}{479}, -\frac{9}{958}, \frac{79}{958}, -\frac{53}{479})$ $+ \frac{1}{479}\sqrt{106485}e^2 \otimes e_7 + \frac{1}{479}\sqrt{96409}e^3 \otimes e_4$	{123, 1235, 3578, 378}
9421:7	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{1687}e^{12}, \frac{1}{341}\sqrt{15906}e^{13}, \frac{2}{341}\sqrt{241}e^{16},$ $\frac{4}{341}\sqrt{1446}e^{18} + \frac{1}{341}\sqrt{19762}e^{34}$	$(-\frac{30}{341}, \frac{53}{341}, \frac{102}{341}, -\frac{139}{341}, \frac{204}{341}, \frac{23}{341}, \frac{72}{341}, -\frac{7}{341}, -\frac{37}{341})$ $+ \frac{1}{341}\sqrt{66034}e^3 \otimes e_4 + \frac{1}{341}\sqrt{79530}e^5 \otimes e_9$	{12369, 124679, 36789, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:7	$0, 0, 0, 0, 0, \frac{1}{409}\sqrt{39786}e^{12}, \frac{1}{409}\sqrt{63518}e^{13}, \frac{2}{409}\sqrt{18497}e^{16},$ $\frac{12}{409}\sqrt{698}e^{18} + \frac{1}{409}\sqrt{39786}e^{34}$	$(\frac{125}{409}, -\frac{224}{409}, \frac{30}{409}, \frac{121}{409}, \frac{64}{409}, -\frac{99}{409}, \frac{155}{409}, \frac{26}{409}, \frac{151}{409})$ $+ \frac{1}{409}\sqrt{240810}e^1 \otimes e_2$	{1358, 138, 14578, 1478, 2357, 237, 24, 245}
9421:7	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{651}e^{12}, \frac{4}{71}\sqrt{93}e^{13}, \frac{1}{71}\sqrt{403}e^{16},$ $\frac{3}{71}\sqrt{93}e^{18} + \frac{1}{71}\sqrt{651}e^{34}$	$(\frac{10}{71}, -\frac{21}{71}, -\frac{15}{142}, \frac{33}{142}, \frac{67}{142}, -\frac{11}{71}, \frac{5}{142}, -\frac{1}{71}, \frac{9}{71})$ $+ \frac{1}{71}\sqrt{1705}e^5 \otimes e_7 + \frac{5}{71}\sqrt{93}e^1 \otimes e_2$	{1358, 1478, 237, 245}
9421:7	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{21}e^{12}, \frac{3}{34}\sqrt{14}e^{13}, \frac{1}{34}\sqrt{105}e^{16},$ $\frac{1}{17}\sqrt{42}e^{18} + \frac{2}{17}\sqrt{21}e^{34}$	$(-\frac{7}{34}, \frac{1}{2}, -\frac{1}{68}, -\frac{7}{68}, \frac{27}{68}, \frac{5}{17}, -\frac{15}{68}, \frac{3}{34}, -\frac{2}{17})$ $+ \frac{1}{34}\sqrt{861}e^2 \otimes e_9 + \frac{3}{34}\sqrt{42}e^5 \otimes e_7$	{123478, 1258, 13679, 14569}
9421:7	$0, 0, 0, 0, 0, \frac{43}{6341}\sqrt{1002}e^{12}, \frac{43}{6341}\sqrt{1582}e^{13}, \frac{43}{6341}\sqrt{1338}e^{16},$ $\frac{43}{6341}\sqrt{2474}e^{18} + \frac{172}{6341}\sqrt{85}e^{34}$	$(\frac{602}{6341}, -\frac{1247}{6341}, -\frac{946}{6341}, \frac{1505}{6341}, \frac{2408}{6341}, -\frac{645}{6341}, -\frac{344}{6341}, -\frac{43}{6341}, \frac{559}{6341})$ $+ \frac{43}{6341}\sqrt{3766}e^5 \otimes e_9 + \frac{43}{6341}\sqrt{4546}e^1 \otimes e_2 + \frac{86}{6341}\sqrt{830}e^4 \otimes e_7$	{13458, 1578}
9421:7	$0, 0, 0, 0, 0, \frac{12}{739}\sqrt{434}e^{12}, \frac{28}{739}\sqrt{210}e^{13}, \frac{24}{739}\sqrt{70}e^{16},$ $\frac{8}{739}\sqrt{1281}e^{18} + \frac{12}{739}\sqrt{434}e^{34}$	$(-\frac{91}{739}, \frac{309}{739}, \frac{64}{739}, -\frac{28}{739}, -\frac{272}{739}, \frac{218}{739}, -\frac{27}{739}, \frac{127}{739}, \frac{36}{739})$ $+ \frac{4}{739}\sqrt{14154}e^2 \otimes e_7 + \frac{4}{739}\sqrt{14154}e^3 \otimes e_5$	{1234, 1456789, 24569, 3478}
9421:7	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30257}e^{12}, \frac{1}{311}\sqrt{29491}e^{13}, \frac{8}{311}\sqrt{383}e^{16},$ $\frac{3}{311}\sqrt{1915}e^{18} + \frac{2}{311}\sqrt{23746}e^{34}$	$(\frac{47}{311}, \frac{18}{311}, -\frac{28}{311}, \frac{187}{311}, -\frac{196}{311}, \frac{65}{311}, \frac{19}{311}, \frac{112}{311}, \frac{159}{311})$ $+ \frac{13}{311}\sqrt{1149}e^4 \otimes e_5$	{1235789, 12489, 13467, 156, 23468, 25678, 359, 479}
9421:7	$0, 0, 0, 0, 0, \frac{6}{43}\sqrt{3}e^{12}, \frac{3}{43}\sqrt{46}e^{13}, \frac{3}{43}\sqrt{11}e^{16},$ $\frac{6}{43}e^{18} + \frac{3}{43}\sqrt{2}e^{34}$	$(-\frac{15}{86}, \frac{33}{86}, \frac{6}{43}, -\frac{12}{43}, \frac{12}{43}, \frac{9}{43}, -\frac{3}{86}, \frac{3}{86}, -\frac{6}{43})$ $+ \frac{3}{43}\sqrt{35}e^5 \otimes e_9 + \frac{3}{43}\sqrt{59}e^3 \otimes e_4 + \frac{3}{43}\sqrt{65}e^2 \otimes e_7$	{146789, 2469}
9421:7	$0, 0, 0, 0, 0, \frac{13}{1441}\sqrt{1374}e^{12}, \frac{1}{1441}\sqrt{386094}e^{13}, \frac{4}{1441}\sqrt{17862}e^{16},$ $\frac{3}{1441}\sqrt{17862}e^{18} + \frac{4}{1441}\sqrt{8931}e^{34}$	$(\frac{130}{1441}, \frac{5}{1441}, -\frac{211}{1441}, \frac{606}{1441}, -\frac{557}{1441}, \frac{135}{1441}, -\frac{81}{1441}, \frac{265}{1441}, \frac{395}{1441})$ $+ \frac{1}{1441}\sqrt{1004394}e^1 \otimes e_5 + \frac{4}{1441}\sqrt{46029}e^4 \otimes e_7$	{12348, 1278, 2356789, 245689}
9421:7	$0, 0, 0, 0, 0, \frac{9}{245}\sqrt{133}e^{12}, \frac{9}{245}\sqrt{123}e^{13}, \frac{9}{245}\sqrt{58}e^{16},$ $\frac{9}{245}\sqrt{37}e^{18} + \frac{72}{245}\sqrt{3}e^{34}$	$(-\frac{27}{245}, \frac{18}{49}, -\frac{9}{245}, \frac{18}{245}, -\frac{9}{35}, \frac{9}{35}, -\frac{36}{245}, \frac{36}{245}, \frac{9}{245})$ $+ \frac{9}{245}\sqrt{177}e^4 \otimes e_5 + \frac{9}{245}\sqrt{262}e^2 \otimes e_9$	{123478, 1258, 135679, 1469}
9421:7	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{390}e^{12}, \frac{6}{107}\sqrt{143}e^{13}, \frac{2}{107}\sqrt{663}e^{16},$ $\frac{4}{107}\sqrt{195}e^{18} + \frac{4}{107}\sqrt{390}e^{34}$	$(-\frac{26}{107}, \frac{67}{107}, \frac{11}{107}, -\frac{22}{107}, \frac{18}{107}, \frac{41}{107}, -\frac{15}{107}, \frac{15}{107}, -\frac{11}{107})$ $+ \frac{2}{107}\sqrt{3471}e^2 \otimes e_9$	{1234578, 123478, 1258, 128, 135679, 13679, 14569, 1469}
9421:7	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{23746}e^{12}, \frac{1}{311}\sqrt{29491}e^{13}, \frac{8}{311}\sqrt{383}e^{16},$ $\frac{3}{311}\sqrt{1915}e^{18} + \frac{1}{311}\sqrt{30257}e^{34}$	$(-\frac{75}{622}, \frac{187}{311}, \frac{113}{622}, \frac{18}{311}, -\frac{196}{311}, \frac{299}{622}, \frac{19}{311}, \frac{112}{311}, \frac{149}{622})$ $+ \frac{13}{311}\sqrt{1149}e^2 \otimes e_5$	{123789, 12489, 134567, 156, 23468, 2678, 359, 4579}
9421:8	$0, 0, 0, 0, 0, \frac{7}{331}\sqrt{102}e^{12}, \frac{21}{331}\sqrt{66}e^{13}, \frac{7}{331}\sqrt{78}e^{26},$ $\frac{14}{331}\sqrt{87}e^{28} + \frac{7}{331}\sqrt{102}e^{34}$	$(\frac{92}{331}, -\frac{49}{331}, \frac{46}{331}, -\frac{101}{331}, \frac{39}{331}, \frac{43}{331}, \frac{138}{331}, -\frac{6}{331}, -\frac{55}{331})$ $+ \frac{21}{331}\sqrt{82}e^3 \otimes e_4 + \frac{91}{331}\sqrt{6}e^1 \otimes e_9$	{235679, 23679, 24569, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{54}{923}e^{12}, \frac{18}{923}\sqrt{290}e^{13}, \frac{9}{923}\sqrt{710}e^{26},$ $\frac{63}{923}\sqrt{22}e^{28} + \frac{9}{923}\sqrt{410}e^{34}$	$(-\frac{387}{1846}, \frac{189}{1846}, \frac{126}{923}, -\frac{36}{923}, \frac{252}{923}, -\frac{99}{923}, -\frac{135}{1846}, -\frac{9}{1846}, \frac{90}{923})$ $+ \frac{18}{923}\sqrt{226}e^3 \otimes e_4 + \frac{18}{923}\sqrt{445}e^2 \otimes e_7 + \frac{9}{923}\sqrt{658}e^5 \otimes e_9$	{1457, 2458}
9421:8	$0, 0, 0, 0, 0, \frac{2}{237}\sqrt{1281}e^{12}, \frac{2}{237}\sqrt{5307}e^{13}, \frac{2}{237}\sqrt{4819}e^{26},$ $\frac{2}{237}\sqrt{5307}e^{28} + \frac{2}{237}\sqrt{305}e^{34}$	$(-\frac{23}{79}, \frac{50}{237}, -\frac{1}{79}, \frac{28}{79}, \frac{13}{79}, -\frac{19}{237}, -\frac{24}{79}, \frac{31}{237}, \frac{27}{79})$ $+ \frac{2}{79}\sqrt{1342}e^2 \otimes e_7$	{12358, 1238, 156789, 16789, 2569, 269, 357, 37}
9421:8	$0, 0, 0, 0, 0, \frac{2}{411}\sqrt{1343}e^{12}, \frac{2}{411}\sqrt{8453}e^{13}, \frac{2}{411}\sqrt{1027}e^{26},$ $\frac{2}{411}\sqrt{1343}e^{28} + \frac{2}{411}\sqrt{8453}e^{34}$	$(-\frac{17}{137}, \frac{20}{137}, \frac{11}{411}, \frac{118}{411}, -\frac{49}{137}, \frac{3}{137}, -\frac{40}{411}, \frac{23}{137}, \frac{43}{137})$ $+ \frac{2}{411}\sqrt{14694}e^3 \otimes e_5 + \frac{2}{411}\sqrt{14694}e^4 \otimes e_7$	{12346, 12567, 23789, 24589}
9421:8	$0, 0, 0, 0, 0, \frac{8}{207}\sqrt{2}e^{12}, \frac{8}{207}\sqrt{139}e^{13}, \frac{8}{207}\sqrt{97}e^{26},$ $\frac{56}{207}\sqrt{2}e^{28} + \frac{8}{207}\sqrt{21}e^{34}$	$(-\frac{53}{207}, \frac{13}{69}, \frac{28}{207}, \frac{4}{23}, -\frac{4}{23}, -\frac{14}{207}, -\frac{25}{207}, \frac{25}{207}, \frac{64}{207})$ $+ \frac{32}{207}\sqrt{15}e^2 \otimes e_7 + \frac{8}{207}\sqrt{123}e^3 \otimes e_5$	{1238, 156789, 2569, 37}
9421:8	$0, 0, 0, 0, 0, \frac{8}{441}\sqrt{1082}e^{12}, \frac{1}{441}\sqrt{61674}e^{13}, \frac{2}{441}\sqrt{7033}e^{26},$ $\frac{8}{441}\sqrt{61674}e^{28} + \frac{1}{441}\sqrt{200170}e^{34}$	$(\frac{71}{441}, \frac{5}{49}, -\frac{50}{441}, \frac{256}{441}, -\frac{95}{147}, \frac{116}{441}, \frac{1}{21}, \frac{23}{63}, \frac{206}{441})$ $+ \frac{11}{441}\sqrt{3246}e^4 \otimes e_5$	{1235789, 12489, 134678, 1568, 2346, 2567, 359, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:8	$0, 0, 0, 0, 0, \frac{1}{441}\sqrt{61674}e^{12}, \frac{1}{441}\sqrt{200170}e^{13}, \frac{2}{441}\sqrt{7033}e^{26},$ $\frac{8}{441}\sqrt{1082}e^{28} + \frac{1}{441}\sqrt{61674}e^{34}$	$(-\frac{50}{441}, \frac{5}{49}, -\frac{50}{441}, \frac{15}{49}, 1, -\frac{5}{441}, -\frac{100}{441}, \frac{40}{441}, \frac{85}{441})$ $+ \frac{11}{441}\sqrt{3246}e^5 \otimes e_7$	{1234569, 12679, 135, 147, 2378, 2458, 346789, 5689}
9421:8	$0, 0, 0, 0, 0, \frac{1}{441}\sqrt{61674}e^{12}, \frac{1}{441}\sqrt{200170}e^{13}, \frac{2}{441}\sqrt{7033}e^{26},$ $\frac{8}{441}\sqrt{1082}e^{28} + \frac{1}{441}\sqrt{61674}e^{34}$	$(-\frac{50}{441}, \frac{5}{49}, \frac{313}{441}, -\frac{76}{147}, \frac{26}{147}, -\frac{5}{441}, \frac{263}{441}, \frac{40}{441}, \frac{85}{441})$ $+ \frac{11}{441}\sqrt{3246}e^3 \otimes e_4$	{13, 135, 1457, 147, 23578, 2378, 2458, 248}
9421:8	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{3}e^{13}, \frac{6}{53}\sqrt{2}e^{26},$ $\frac{6}{53}\sqrt{5}e^{28} + \frac{12}{53}\sqrt{3}e^{34}$	$(\frac{15}{53}, -\frac{6}{53}, \frac{3}{53}, -\frac{6}{53}, -\frac{15}{53}, \frac{9}{53}, \frac{18}{53}, \frac{3}{53}, -\frac{3}{53})$ $+ \frac{6}{53}\sqrt{21}e^3 \otimes e_5 + \frac{6}{53}\sqrt{26}e^1 \otimes e_9$	{12348, 12578, 23679, 24569}
9421:8	$0, 0, 0, 0, 0, \frac{8}{3951}\sqrt{435}e^{12}, \frac{16}{3951}\sqrt{11455}e^{13}, \frac{232}{3951}\sqrt{31}e^{26},$ $\frac{8}{3951}\sqrt{33698}e^{28} + \frac{8}{1317}\sqrt{2494}e^{34}$	$(-\frac{1145}{3951}, \frac{217}{1317}, \frac{868}{3951}, -\frac{20}{1317}, \frac{140}{1317}, -\frac{494}{3951}, -\frac{277}{3951}, \frac{157}{3951}, \frac{808}{3951})$ $+ \frac{8}{1317}\sqrt{7337}e^2 \otimes e_7 + \frac{8}{3951}\sqrt{36366}e^3 \otimes e_4$	{1457, 147, 2458, 248}
9421:8	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{33}e^{12}, \frac{10}{83}\sqrt{3}e^{13}, \frac{2}{83}\sqrt{51}e^{26},$ $\frac{10}{83}\sqrt{3}e^{28} + \frac{6}{83}e^{34}$	$(\frac{5}{83}, -\frac{2}{83}, -\frac{13}{83}, \frac{12}{83}, \frac{9}{83}, \frac{3}{83}, -\frac{8}{83}, \frac{1}{83}, -\frac{1}{83})$ $+ \frac{6}{83}\sqrt{14}e^2 \otimes e_7 + \frac{8}{83}\sqrt{6}e^1 \otimes e_9$	{12358, 1238, 2569, 269}
9421:8	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{7}e^{12}, \frac{2}{27}\sqrt{21}e^{13}, \frac{2}{27}\sqrt{7}e^{26},$ $\frac{2}{27}\sqrt{21}e^{28} + \frac{14}{27}e^{34}$	$(\frac{1}{27}, 0, -\frac{7}{27}, \frac{8}{27}, \frac{5}{9}, \frac{1}{27}, -\frac{2}{9}, \frac{1}{27}, \frac{1}{27})$ $+ \frac{4}{27}\sqrt{21}e^4 \otimes e_7 + \frac{4}{27}\sqrt{21}e^5 \otimes e_9$	{1345, 157, 36789, 4689}
9421:8	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{33}e^{12}, \frac{1}{10}\sqrt{33}e^{13}, \frac{1}{40}\sqrt{165}e^{26},$ $\frac{1}{10}\sqrt{33}e^{28} + \frac{1}{10}\sqrt{33}e^{34}$	$(\frac{3}{5}, -\frac{11}{40}, -\frac{17}{80}, -\frac{1}{80}, \frac{3}{16}, \frac{13}{40}, \frac{31}{80}, \frac{1}{20}, -\frac{9}{40})$ $+ \frac{1}{40}\sqrt{2145}e^1 \otimes e_9$	{123458, 12348, 12578, 1278, 235679, 23679, 24569, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{2}{1019}\sqrt{38753}e^{12}, \frac{4}{1019}\sqrt{5962}e^{13}, \frac{4}{1019}\sqrt{14905}e^{26},$ $\frac{2}{1019}\sqrt{38753}e^{28} + \frac{4}{1019}\sqrt{5962}e^{34}$	$(-\frac{95}{1019}, \frac{154}{1019}, -\frac{40}{1019}, \frac{407}{1019}, -\frac{388}{1019}, \frac{59}{1019}, -\frac{135}{1019}, \frac{213}{1019}, \frac{367}{1019})$ $+ \frac{2}{1019}\sqrt{97289}e^4 \otimes e_7 + \frac{4}{1019}\sqrt{35501}e^2 \otimes e_5$	{12348, 1278, 23679, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{29}e^{12}, \frac{8}{57}\sqrt{29}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{2}e^{28} + \frac{8}{57}\sqrt{2}e^{34}$	$(\frac{28}{57}, -\frac{13}{114}, -\frac{1}{19}, \frac{23}{114}, -\frac{12}{19}, \frac{43}{57}, \frac{25}{19}, \frac{5}{19}, \frac{17}{114})$ $+ \frac{8}{57}\sqrt{93}e^1 \otimes e_5$	{123489, 12789, 1368, 14678, 23567, 2456, 34579, 59}
9421:8	$0, 0, 0, 0, 0, \frac{14}{331}\sqrt{87}e^{12}, \frac{7}{331}\sqrt{102}e^{13}, \frac{7}{331}\sqrt{78}e^{26},$ $\frac{7}{331}\sqrt{102}e^{28} + \frac{21}{331}\sqrt{66}e^{34}$	$(\frac{133}{331}, -\frac{49}{331}, -\frac{77}{331}, \frac{63}{331}, -\frac{84}{331}, \frac{84}{331}, \frac{56}{331}, \frac{35}{331}, -\frac{14}{331})$ $+ \frac{21}{331}\sqrt{82}e^4 \otimes e_5 + \frac{91}{331}\sqrt{6}e^1 \otimes e_9$	{12348, 12578, 235679, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{2}e^{12}, \frac{8}{57}\sqrt{29}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{2}e^{28} + \frac{8}{57}\sqrt{29}e^{34}$	$(-\frac{1}{19}, \frac{3}{19}, \frac{28}{57}, -\frac{4}{57}, -\frac{12}{19}, \frac{2}{19}, \frac{25}{57}, \frac{5}{19}, \frac{8}{19})$ $+ \frac{8}{57}\sqrt{93}e^3 \otimes e_5$	{12346, 12567, 139, 14579, 23789, 24589, 34678, 568}
9421:8	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{21}e^{12}, \frac{14}{27}e^{13}, \frac{2}{27}\sqrt{7}e^{26},$ $\frac{2}{27}\sqrt{7}e^{28} + \frac{2}{27}\sqrt{21}e^{34}$	$(\frac{5}{27}, 0, -\frac{7}{27}, \frac{4}{9}, -\frac{1}{3}, \frac{5}{27}, -\frac{2}{27}, \frac{5}{27}, \frac{5}{27})$ $+ \frac{4}{27}\sqrt{21}e^1 \otimes e_5 + \frac{4}{27}\sqrt{21}e^4 \otimes e_7$	{13468, 1678, 3579, 459}
9421:8	$0, 0, 0, 0, 0, \frac{1}{447}\sqrt{24026}e^{12}, \frac{1}{447}\sqrt{49810}e^{13}, \frac{1}{447}\sqrt{10255}e^{26},$ $\frac{1}{447}\sqrt{53033}e^{28} + \frac{1}{447}\sqrt{16115}e^{34}$	$(\frac{17}{894}, -\frac{29}{894}, \frac{43}{149}, -\frac{164}{447}, \frac{86}{149}, -\frac{2}{149}, \frac{275}{894}, -\frac{41}{894}, -\frac{35}{447})$ $+ \frac{1}{149}\sqrt{12306}e^3 \otimes e_4 + \frac{1}{447}\sqrt{120423}e^5 \otimes e_9$	{12369, 124679, 36789, 4689}
9421:8	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{3}e^{13}, \frac{6}{53}\sqrt{2}e^{26},$ $\frac{6}{53}\sqrt{5}e^{28} + \frac{12}{53}\sqrt{3}e^{34}$	$(\frac{15}{53}, -\frac{6}{53}, -\frac{18}{53}, \frac{15}{53}, \frac{6}{53}, \frac{9}{53}, -\frac{3}{53}, \frac{3}{53}, -\frac{3}{53})$ $- \frac{6}{53}\sqrt{21}e^4 \otimes e_7 + \frac{6}{53}\sqrt{26}e^1 \otimes e_9$	{123458, 12348, 12578, 1278, 235679, 23679, 24569, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{5}e^{12}, \frac{12}{53}\sqrt{3}e^{13}, \frac{6}{53}\sqrt{2}e^{26},$ $\frac{6}{53}\sqrt{5}e^{28} + \frac{12}{53}\sqrt{3}e^{34}$	$(\frac{15}{53}, -\frac{6}{53}, -\frac{18}{53}, \frac{15}{53}, \frac{6}{53}, \frac{9}{53}, -\frac{3}{53}, \frac{3}{53}, -\frac{3}{53})$ $+ \frac{6}{53}\sqrt{21}e^4 \otimes e_7 + \frac{6}{53}\sqrt{26}e^1 \otimes e_9$	{123458, 12348, 12578, 1278, 235679, 23679, 24569, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{6}{1379}\sqrt{6023}e^{12}, \frac{6}{1379}\sqrt{2109}e^{13}, \frac{12}{1379}\sqrt{1235}e^{26},$ $\frac{6}{1379}\sqrt{6023}e^{28} + \frac{6}{1379}\sqrt{2109}e^{34}$	$(\frac{333}{1379}, -\frac{114}{1379}, -\frac{60}{1379}, \frac{51}{1379}, -\frac{456}{1379}, \frac{219}{1379}, \frac{39}{197}, \frac{15}{197}, -\frac{9}{1379})$ $+ \frac{6}{1379}\sqrt{11381}e^1 \otimes e_9 + \frac{6}{1379}\sqrt{11742}e^2 \otimes e_5$	{12348, 1278, 23679, 2469}
9421:8	$0, 0, 0, 0, 0, \frac{8}{207}\sqrt{2}e^{12}, \frac{56}{207}\sqrt{2}e^{13}, \frac{8}{207}\sqrt{97}e^{26},$ $\frac{8}{207}\sqrt{139}e^{28} + \frac{8}{207}\sqrt{21}e^{34}$	$(-\frac{65}{414}, \frac{37}{414}, -\frac{13}{207}, \frac{4}{23}, \frac{29}{69}, -\frac{14}{207}, -\frac{91}{414}, \frac{1}{46}, \frac{1}{9})$ $+ \frac{32}{207}\sqrt{15}e^2 \otimes e_7 + \frac{8}{207}\sqrt{123}e^5 \otimes e_9$	{12358, 16789, 269, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:8	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{2}e^{12}, \frac{8}{57}\sqrt{2}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{29}e^{28} + \frac{8}{57}\sqrt{29}e^{34}$	$(\frac{25}{114}, -\frac{13}{114}, -\frac{1}{19}, -\frac{4}{57}, 1, \frac{2}{19}, \frac{1}{6}, -\frac{1}{114}, -\frac{7}{57})$ $+ \frac{8}{57}\sqrt{93}e^5 \otimes e_9$	{123679, 12469, 13457, 15, 23458, 2578, 3689, 46789}
9421:8	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{51}e^{12}, \frac{1}{9}\sqrt{34}e^{13}, \frac{1}{36}\sqrt{34}e^{26},$ $\frac{1}{36}\sqrt{170}e^{28} + \frac{1}{18}\sqrt{51}e^{34}$	$(-\frac{7}{36}, \frac{1}{12}, \frac{19}{72}, -\frac{5}{24}, \frac{13}{24}, -\frac{1}{9}, \frac{5}{72}, -\frac{1}{36}, \frac{1}{18})$ $+ \frac{1}{36}\sqrt{561}e^3 \otimes e_4 + \frac{1}{36}\sqrt{561}e^5 \otimes e_7$	{135, 147, 2378, 2458}
9421:8	$0, 0, 0, 0, 0, \frac{2}{4113}\sqrt{236901}e^{12}, \frac{2}{4113}\sqrt{534097}e^{13}, \frac{2}{4113}\sqrt{354379}e^{26},$ $\frac{2}{4113}\sqrt{355157}e^{28} + \frac{2}{4113}\sqrt{239235}e^{34}$	$(-\frac{161}{4113}, \frac{100}{1371}, \frac{317}{4113}, \frac{352}{1371}, -\frac{313}{1371}, \frac{139}{4113}, \frac{478}{4113}, \frac{439}{4113}, \frac{739}{4113})$ $+ \frac{4}{4113}\sqrt{134205}e^1 \otimes e_5 + \frac{4}{4113}\sqrt{222897}e^2 \otimes e_7$	{1238, 16789, 2569, 357}
9421:8	$0, 0, 0, 0, 0, \frac{4}{211}\sqrt{42}e^{12}, \frac{60}{211}\sqrt{2}e^{13}, \frac{4}{211}\sqrt{33}e^{26},$ $\frac{8}{211}\sqrt{51}e^{28} + \frac{4}{211}\sqrt{42}e^{34}$	$(\frac{20}{211}, -\frac{16}{211}, \frac{10}{211}, -\frac{38}{211}, \frac{78}{211}, \frac{4}{211}, \frac{30}{211}, -\frac{12}{211}, -\frac{28}{211})$ $+ \frac{12}{211}\sqrt{41}e^3 \otimes e_4 + \frac{12}{211}\sqrt{41}e^5 \otimes e_7 + \frac{4}{211}\sqrt{429}e^1 \otimes e_9$	{135, 147}
9421:8	$0, 0, 0, 0, 0, \frac{8}{1617}\sqrt{4315}e^{12}, \frac{1}{1617}\sqrt{415966}e^{13}, \frac{1}{1617}\sqrt{612730}e^{26},$ $\frac{4}{1617}\sqrt{37109}e^{28} + \frac{1}{1617}\sqrt{219202}e^{34}$	$(-\frac{197}{1617}, \frac{206}{1617}, \frac{214}{539}, -\frac{221}{1617}, -\frac{219}{539}, \frac{3}{539}, \frac{445}{1617}, \frac{215}{1617}, \frac{421}{1617})$ $+ \frac{1}{1617}\sqrt{1486086}e^2 \otimes e_5 + \frac{4}{1617}\sqrt{59547}e^3 \otimes e_4$	{1238, 12478, 357, 45}
9421:8	$0, 0, 0, 0, 0, \frac{4}{471}\sqrt{5655}e^{12}, \frac{1}{157}\sqrt{754}e^{13}, \frac{1}{471}\sqrt{118378}e^{26},$ $\frac{4}{471}\sqrt{5655}e^{28} + \frac{1}{157}\sqrt{754}e^{34}$	$(-\frac{9}{157}, \frac{74}{471}, \frac{34}{157}, \frac{31}{157}, -\frac{101}{471}, \frac{47}{157}, \frac{25}{471}, \frac{121}{157}, \frac{65}{157})$ $+ \frac{1}{157}\sqrt{32422}e^2 \otimes e_5$	{12378, 1248, 13456789, 15689, 23469, 2679, 35, 457}
9421:8	$0, 0, 0, 0, 0, \frac{2}{4329}\sqrt{278718}e^{12}, \frac{2}{4329}\sqrt{1701766}e^{13}, \frac{2}{4329}\sqrt{165418}e^{26},$ $\frac{2}{4329}\sqrt{232265}e^{28} + \frac{2}{1443}\sqrt{53251}e^{34}$	$(\frac{697}{4329}, -\frac{53}{1443}, \frac{1243}{4329}, -\frac{341}{1443}, -\frac{523}{1443}, \frac{538}{4329}, \frac{1940}{4329}, \frac{379}{4329}, \frac{220}{4329})$ $+ \frac{2}{1443}\sqrt{252659}e^1 \otimes e_5 + \frac{4}{4329}\sqrt{533643}e^3 \otimes e_4$	{1238, 12478, 357, 45}
9421:8	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{2}e^{12}, \frac{8}{57}\sqrt{29}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{2}e^{28} + \frac{8}{57}\sqrt{29}e^{34}$	$(-\frac{1}{19}, \frac{3}{19}, -\frac{37}{114}, \frac{85}{114}, \frac{7}{38}, \frac{2}{19}, -\frac{43}{114}, \frac{5}{19}, \frac{8}{19})$ $+ \frac{8}{57}\sqrt{93}e^4 \otimes e_7$	{123456, 12346, 12567, 1267, 235789, 23789, 24589, 2489}
9421:8	$0, 0, 0, 0, 0, \frac{8}{71}\sqrt{7}e^{12}, \frac{24}{71}\sqrt{2}e^{13}, \frac{8}{71}\sqrt{19}e^{26},$ $\frac{24}{71}\sqrt{2}e^{28} + \frac{16}{71}e^{34}$	$(-\frac{15}{71}, \frac{13}{71}, -\frac{4}{71}, \frac{28}{71}, -\frac{4}{71}, -\frac{2}{71}, -\frac{19}{71}, \frac{11}{71}, \frac{24}{71})$ $+ \frac{8}{71}\sqrt{14}e^4 \otimes e_5 + \frac{8}{71}\sqrt{47}e^2 \otimes e_7$	{12358, 156789, 2569, 357}
9421:8	$0, 0, 0, 0, 0, \frac{7}{331}\sqrt{102}e^{12}, \frac{21}{331}\sqrt{66}e^{13}, \frac{7}{331}\sqrt{78}e^{26},$ $\frac{14}{331}\sqrt{87}e^{28} + \frac{7}{331}\sqrt{102}e^{34}$	$(\frac{92}{331}, -\frac{49}{331}, -\frac{77}{331}, \frac{22}{331}, \frac{162}{331}, \frac{43}{331}, \frac{15}{331}, -\frac{6}{331}, -\frac{55}{331})$ $+ \frac{21}{331}\sqrt{82}e^5 \otimes e_7 + \frac{91}{331}\sqrt{6}e^1 \otimes e_9$	{123458, 1278, 23679, 24569}
9421:9	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{42}e^{12}, \frac{3}{34}\sqrt{14}e^{13} + \frac{2}{17}\sqrt{21}e^{24}, \frac{1}{34}\sqrt{105}e^{16},$ $\frac{2}{17}\sqrt{21}e^{18}$	$(-\frac{7}{34}, \frac{13}{34}, \frac{33}{68}, -\frac{7}{68}, -\frac{9}{68}, \frac{3}{17}, \frac{19}{68}, -\frac{1}{34}, -\frac{4}{17})$ $+ \frac{1}{34}\sqrt{861}e^2 \otimes e_9 + \frac{3}{34}\sqrt{42}e^3 \otimes e_5$	{12378, 12458, 134679, 1569}
9421:9	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{10218}e^{12}, \frac{1}{441}\sqrt{28951}e^{13} + \frac{1}{441}\sqrt{131}e^{24},$ $\frac{4}{441}\sqrt{2227}e^{16}, \frac{2}{441}\sqrt{5502}e^{18}$	$(\frac{32}{441}, \frac{32}{441}, -\frac{11}{49}, -\frac{11}{49}, \frac{44}{441}, \frac{64}{441}, -\frac{67}{441}, \frac{32}{147}, \frac{128}{441})$ $+ \frac{13}{441}\sqrt{393}e^1 \otimes e_3 - \frac{1}{441}\sqrt{37597}e^2 \otimes e_4$	{1258, 128, 14569, 1469, 235689, 23689, 34, 345}
9421:9	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{10218}e^{12}, \frac{1}{441}\sqrt{28951}e^{13} + \frac{1}{441}\sqrt{131}e^{24},$ $\frac{4}{441}\sqrt{2227}e^{16}, \frac{2}{441}\sqrt{5502}e^{18}$	$(\frac{32}{441}, \frac{32}{441}, -\frac{11}{49}, -\frac{11}{49}, \frac{44}{441}, \frac{64}{441}, -\frac{67}{441}, \frac{32}{147}, \frac{128}{441})$ $+ \frac{13}{441}\sqrt{393}e^1 \otimes e_3 + \frac{1}{441}\sqrt{37597}e^2 \otimes e_4$	{1258, 128, 14569, 1469, 235689, 23689, 34, 345}
9421:9	$0, 0, 0, 0, 0, \frac{4}{1211}\sqrt{27699}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13} + \frac{1}{1211}\sqrt{2638}e^{24},$ $\frac{1}{1211}\sqrt{145090}e^{16}, \frac{26}{1211}\sqrt{1319}e^{18}$	$(-\frac{40}{173}, \frac{367}{1211}, \frac{846}{1211}, \frac{199}{1211}, \frac{200}{1211}, \frac{87}{1211}, \frac{566}{1211}, -\frac{193}{1211}, -\frac{473}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_9$	{1234568, 123468, 14579, 1479, 24589, 2489, 34567, 3467}
9421:9	$0, 0, 0, 0, 0, \frac{100}{3799}\sqrt{19}e^{12}, \frac{100}{3799}\sqrt{118}e^{13} + \frac{25}{3799}\sqrt{2010}e^{24},$ $\frac{25}{3799}\sqrt{1918}e^{16}, \frac{100}{3799}\sqrt{177}e^{18}$	$(\frac{350}{3799}, -\frac{800}{3799}, -\frac{275}{3799}, \frac{875}{3799}, \frac{700}{3799}, -\frac{450}{3799}, \frac{75}{3799}, -\frac{100}{3799}, \frac{250}{3799})$ $+ \frac{100}{3799}\sqrt{197}e^1 \otimes e_3 + \frac{175}{3799}\sqrt{14}e^5 \otimes e_7 + \frac{25}{3799}\sqrt{3046}e^4 \otimes e_9$	{12458, 1569}
9421:9	$0, 0, 0, 0, 0, \frac{4}{3629}\sqrt{79926}e^{12}, \frac{2}{3629}\sqrt{513291}e^{13} + \frac{10}{3629}\sqrt{5190}e^{24},$ $\frac{4}{3629}\sqrt{148434}e^{16}, \frac{2}{3629}\sqrt{692346}e^{18}$	$(\frac{338}{3629}, -\frac{489}{3629}, -\frac{700}{3629}, \frac{127}{3629}, \frac{1563}{3629}, -\frac{151}{3629}, -\frac{362}{3629}, \frac{187}{3629}, \frac{525}{3629})$ $+ \frac{2}{3629}\sqrt{1072254}e^1 \otimes e_3 + \frac{2}{3629}\sqrt{615534}e^5 \otimes e_9$	{12458, 169, 234689, 35}
9421:9	$0, 0, 0, 0, 0, \frac{2}{201}\sqrt{9906}e^{12}, \frac{2}{201}\sqrt{1651}e^{13} + \frac{2}{201}\sqrt{1270}e^{24}, \frac{8}{201}\sqrt{127}e^{16},$ $\frac{2}{201}\sqrt{1270}e^{18}$	$(-\frac{12}{67}, \frac{133}{201}, \frac{16}{67}, -\frac{121}{201}, \frac{35}{201}, \frac{97}{201}, \frac{4}{67}, \frac{61}{201}, \frac{25}{201})$ $+ \frac{2}{201}\sqrt{21082}e^2 \otimes e_4$	{12589, 1289, 1456, 146, 23568, 2368, 3459, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:9	$0, 0, 0, 0, 0, \frac{3}{311}\sqrt{1915}e^{12}, \frac{1}{311}\sqrt{29491}e^{13} + \frac{2}{311}\sqrt{23746}e^{24},$ $\frac{8}{311}\sqrt{383}e^{16}, \frac{1}{311}\sqrt{30257}e^{18}$	$(\frac{47}{311}, -\frac{44}{311}, \frac{96}{311}, \frac{187}{311}, -\frac{196}{311}, \frac{3}{311}, \frac{143}{311}, \frac{50}{311}, \frac{97}{311})$ $+ \frac{13}{311}\sqrt{1149}e^4 \otimes e_5$	{1235679, 12469, 13478, 158, 234, 257, 35689, 46789}
9421:9	$0, 0, 0, 0, 0, \frac{212}{709}\sqrt{2}e^{12}, \frac{8}{709}\sqrt{318}e^{13} + \frac{4}{709}\sqrt{11289}e^{24}, \frac{24}{709}\sqrt{53}e^{16},$ $\frac{4}{709}\sqrt{11289}e^{18}$	$(-\frac{35}{709}, -\frac{23}{709}, \frac{308}{709}, \frac{296}{709}, -\frac{116}{709}, -\frac{58}{709}, \frac{273}{709}, -\frac{93}{709}, -\frac{128}{709})$ $+ \frac{20}{709}\sqrt{901}e^4 \otimes e_9 + \frac{40}{709}\sqrt{106}e^3 \otimes e_5$	{123679, 13478, 234, 3689}
9421:9	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{12}\sqrt{21}e^{13} + \frac{1}{24}\sqrt{42}e^{24}, \frac{1}{8}\sqrt{10}e^{16},$ $\frac{1}{12}\sqrt{15}e^{18}$	$(\frac{5}{48}, 0, -\frac{7}{48}, -\frac{1}{24}, -\frac{1}{4}, \frac{5}{48}, -\frac{1}{24}, \frac{5}{16}, \frac{5}{16})$ $+ \frac{1}{12}\sqrt{39}e^1 \otimes e_3 + \frac{1}{24}\sqrt{102}e^2 \otimes e_5$	{1248, 1569, 234689, 35}
9421:9	$0, 0, 0, 0, 0, \frac{16}{1735}\sqrt{2310}e^{12}, \frac{16}{1735}\sqrt{2002}e^{13} + \frac{48}{1735}\sqrt{154}e^{24},$ $\frac{112}{1735}\sqrt{77}e^{16}, \frac{16}{1735}\sqrt{3003}e^{18}$	$(\frac{319}{1735}, -\frac{294}{1735}, -\frac{577}{1735}, \frac{36}{1735}, \frac{638}{1735}, \frac{5}{1735}, -\frac{258}{1735}, \frac{344}{1735}, \frac{663}{1735})$ $+ \frac{16}{1735}\sqrt{7679}e^1 \otimes e_3 + \frac{32}{1735}\sqrt{707}e^5 \otimes e_7$	{12458, 1569, 2345689, 35}
9421:9	$0, 0, 0, 0, 0, \frac{5}{1341}\sqrt{934}e^{12}, \frac{1}{1341}\sqrt{107410}e^{13} + \frac{8}{447}\sqrt{467}e^{24},$ $\frac{4}{1341}\sqrt{16345}e^{16}, \frac{1}{447}\sqrt{49502}e^{18}$	$(\frac{58}{1341}, -\frac{155}{1341}, \frac{91}{447}, \frac{54}{149}, -\frac{409}{1341}, -\frac{97}{1341}, \frac{331}{1341}, -\frac{13}{447}, \frac{19}{1341})$ $+ \frac{1}{149}\sqrt{6538}e^1 \otimes e_5 + \frac{4}{1341}\sqrt{35959}e^4 \otimes e_9$	{1248, 169, 256789, 457}
9421:9	$0, 0, 0, 0, 0, \frac{2}{3285}\sqrt{605370}e^{12}, \frac{2}{3285}\sqrt{390523}e^{13} + \frac{2}{3285}\sqrt{78342}e^{24},$ $\frac{4}{3285}\sqrt{70033}e^{16}, \frac{2}{3285}\sqrt{657598}e^{18}$	$(-\frac{592}{3285}, \frac{83}{219}, \frac{236}{1095}, \frac{1129}{3285}, \frac{1843}{3285}, \frac{653}{3285}, \frac{116}{3285}, \frac{61}{3285}, -\frac{59}{365})$ $+ \frac{2}{3285}\sqrt{1711654}e^2 \otimes e_4 + \frac{4}{3285}\sqrt{434442}e^5 \otimes e_9$	{123578, 134679, 26789, 457}
9421:9	$0, 0, 0, 0, 0, \frac{76}{207}\sqrt{2}e^{12}, \frac{8}{207}\sqrt{247}e^{13} + \frac{4}{69}\sqrt{209}e^{24}, \frac{8}{207}\sqrt{133}e^{16},$ $\frac{4}{69}\sqrt{209}e^{18}$	$(-\frac{5}{207}, -\frac{29}{207}, \frac{28}{69}, \frac{12}{23}, \frac{32}{207}, -\frac{34}{207}, \frac{79}{207}, -\frac{13}{69}, -\frac{44}{207})$ $+ \frac{20}{207}\sqrt{133}e^4 \otimes e_9$	{1235679, 123679, 134578, 13478, 234, 2345, 35689, 3689}
9421:9	$0, 0, 0, 0, 0, \frac{21}{121}\sqrt{5}e^{12}, \frac{7}{121}\sqrt{67}e^{13} + \frac{14}{121}\sqrt{10}e^{24}, \frac{28}{121}\sqrt{5}e^{16},$ $\frac{7}{121}\sqrt{65}e^{18}$	$(\frac{25}{121}, -\frac{28}{121}, -\frac{24}{121}, \frac{29}{121}, -\frac{20}{121}, -\frac{3}{121}, \frac{1}{121}, \frac{2}{11}, \frac{47}{121})$ $+ \frac{7}{121}\sqrt{69}e^4 \otimes e_5 + \frac{84}{121}e^1 \otimes e_3$	{1248, 1569, 234689, 35}
9421:9	$0, 0, 0, 0, 0, \frac{1}{1301}\sqrt{654198}e^{12}, \frac{5}{1301}\sqrt{10190}e^{13} + \frac{12}{1301}\sqrt{1019}e^{24},$ $\frac{28}{1301}\sqrt{1019}e^{16}, \frac{1}{1301}\sqrt{580830}e^{18}$	$(\frac{178}{1301}, -\frac{19}{1301}, \frac{105}{1301}, \frac{302}{1301}, \frac{841}{1301}, \frac{159}{1301}, \frac{283}{1301}, \frac{337}{1301}, \frac{515}{1301})$ $+ \frac{3}{1301}\sqrt{242522}e^1 \otimes e_5$	{1238, 12478, 13469, 1679, 23456789, 25689, 357, 45}
9421:9	$0, 0, 0, 0, 0, \frac{450}{3989}e^{12}, \frac{81}{3989}\sqrt{42}e^{13} + \frac{90}{3989}\sqrt{15}e^{24}, \frac{36}{3989}\sqrt{178}e^{16},$ $\frac{45}{3989}\sqrt{130}e^{18}$	$(-\frac{27}{3989}, \frac{234}{3989}, -\frac{108}{3989}, -\frac{369}{3989}, -\frac{54}{3989}, \frac{207}{3989}, -\frac{135}{3989}, \frac{180}{3989}, \frac{153}{3989})$ $+ \frac{18}{3989}\sqrt{1095}e^1 \otimes e_3 + \frac{9}{3989}\sqrt{3706}e^2 \otimes e_9 + \frac{9}{3989}\sqrt{870}e^5 \otimes e_7$	{1248, 169}
9421:9	$0, 0, 0, 0, 0, \frac{40}{3357}\sqrt{46}e^{12}, \frac{10}{3357}\sqrt{18331}e^{13} + \frac{10}{3357}\sqrt{31602}e^{24},$ $\frac{20}{3357}\sqrt{2185}e^{16}, \frac{20}{3357}\sqrt{5451}e^{18}$	$(-\frac{220}{3357}, \frac{215}{3357}, \frac{380}{1119}, \frac{235}{1119}, -\frac{935}{3357}, -\frac{5}{3357}, \frac{920}{3357}, -\frac{25}{373}, -\frac{445}{3357})$ $+ \frac{10}{1119}\sqrt{3266}e^2 \otimes e_5 + \frac{20}{3357}\sqrt{9982}e^4 \otimes e_9$	{1248, 1569, 26789, 457}
9421:9	$0, 0, 0, 0, 0, \frac{6}{157}\sqrt{415}e^{12}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{2}{157}\sqrt{3901}e^{24}, \frac{2}{157}\sqrt{1577}e^{16},$ $\frac{4}{157}\sqrt{83}e^{18}$	$(-\frac{11}{157}, \frac{65}{157}, \frac{57}{157}, -\frac{19}{157}, -\frac{101}{157}, \frac{54}{157}, \frac{46}{157}, \frac{43}{157}, \frac{32}{157})$ $+ \frac{2}{157}\sqrt{10707}e^2 \otimes e_5$	{12378, 1248, 1345679, 1569, 234689, 26789, 35, 457}
9421:9	$0, 0, 0, 0, 0, \frac{2}{3605}\sqrt{162393}e^{12}, \frac{2}{3605}\sqrt{459591}e^{13} + \frac{2}{3605}\sqrt{128535}e^{24},$ $\frac{2}{3605}\sqrt{301587}e^{16}, \frac{2}{3605}\sqrt{546117}e^{18}$	$(-\frac{24}{515}, \frac{323}{3605}, \frac{1073}{3605}, \frac{582}{3605}, -\frac{1422}{3605}, \frac{31}{721}, \frac{181}{721}, -\frac{13}{3605}, -\frac{181}{3605})$ $+ \frac{2}{3605}\sqrt{1127973}e^1 \otimes e_5 + \frac{2}{3605}\sqrt{895983}e^3 \otimes e_9$	{1238, 1679, 25689, 357}
9421:9	$0, 0, 0, 0, 0, \frac{4}{1581}\sqrt{21719}e^{12}, \frac{2}{1581}\sqrt{8218}e^{13} + \frac{1}{1581}\sqrt{745490}e^{24},$ $\frac{1}{1581}\sqrt{71614}e^{16}, \frac{2}{1581}\sqrt{127966}e^{18}$	$(-\frac{6}{527}, -\frac{184}{1581}, \frac{61}{527}, \frac{349}{1581}, \frac{752}{1581}, -\frac{202}{1581}, \frac{55}{527}, -\frac{220}{1581}, -\frac{93}{93})$ $+ \frac{1}{1581}\sqrt{700878}e^5 \otimes e_7 + \frac{1}{1581}\sqrt{973246}e^4 \otimes e_9$	{123679, 13478, 2345, 35689}
9421:9	$0, 0, 0, 0, 0, \frac{6}{3869}\sqrt{7070}e^{12}, \frac{18}{3869}\sqrt{1043}e^{13} + \frac{12}{3869}\sqrt{1365}e^{24},$ $\frac{24}{3869}\sqrt{518}e^{16}, \frac{420}{3869}\sqrt{2}e^{18}$	$(-\frac{42}{3869}, \frac{3}{53}, -\frac{168}{3869}, -\frac{429}{3869}, \frac{351}{3869}, \frac{177}{3869}, -\frac{210}{3869}, \frac{135}{3869}, \frac{93}{3869})$ $+ \frac{12}{3869}\sqrt{3255}e^1 \otimes e_3 + \frac{6}{3869}\sqrt{11606}e^2 \otimes e_9$	{12458, 1248, 1569, 169}
9421:9	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{3926}e^{12}, \frac{1}{369}\sqrt{3926}e^{13} + \frac{2}{369}\sqrt{2265}e^{24}, \frac{2}{369}\sqrt{5587}e^{16},$ $\frac{1}{369}\sqrt{10570}e^{18}$	$(-\frac{4}{369}, \frac{29}{123}, \frac{3}{41}, -\frac{64}{369}, -\frac{155}{369}, \frac{83}{369}, \frac{23}{369}, \frac{79}{369}, \frac{25}{123})$ $+ \frac{1}{369}\sqrt{58890}e^1 \otimes e_5 + \frac{2}{369}\sqrt{10117}e^2 \otimes e_4$	{1238, 13469, 25689, 45}
9421:9	$0, 0, 0, 0, 0, \frac{8}{739}\sqrt{1281}e^{12}, \frac{28}{739}\sqrt{210}e^{13} + \frac{12}{739}\sqrt{434}e^{24}, \frac{24}{739}\sqrt{70}e^{16},$ $\frac{12}{739}\sqrt{434}e^{18}$	$(-\frac{91}{739}, \frac{94}{739}, \frac{157}{739}, -\frac{28}{739}, \frac{402}{739}, \frac{3}{739}, \frac{66}{739}, -\frac{88}{739}, -\frac{179}{739})$ $+ \frac{4}{739}\sqrt{14154}e^3 \otimes e_9 + \frac{4}{739}\sqrt{14154}e^5 \otimes e_7$	{1234568, 1479, 24589, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:9	$0, 0, 0, 0, 0, \frac{72}{3401}\sqrt{235e^{12}}, \frac{18}{3401}\sqrt{1995e^{13}} + \frac{72}{3401}\sqrt{165e^{24}},$ $\frac{18}{3401}\sqrt{3745e^{16}}, \frac{36}{3401}\sqrt{1270e^{18}}$	$(-\frac{270}{3401}, \frac{657}{3401}, \frac{783}{3401}, -\frac{144}{3401}, -\frac{1080}{3401}, \frac{387}{3401}, \frac{27}{179}, \frac{117}{3401}, -\frac{153}{3401})$ $+\frac{18}{3401}\sqrt{7765e^2} \otimes e_9 + \frac{36}{3401}\sqrt{1830e^1} \otimes e_5$	{12378, 1248, 134679, 169}
9421:9	$0, 0, 0, 0, 0, \frac{3}{311}\sqrt{1915e^{12}}, \frac{1}{311}\sqrt{29491e^{13}} + \frac{1}{311}\sqrt{30257e^{24}},$ $\frac{8}{311}\sqrt{383e^{16}}, \frac{2}{311}\sqrt{23746e^{18}}$	$(-\frac{75}{622}, \frac{81}{622}, \frac{96}{311}, \frac{18}{311}, 1, \frac{3}{311}, \frac{117}{622}, -\frac{69}{622}, -\frac{72}{311})$ $+\frac{13}{311}\sqrt{1149e^5} \otimes e_9$	{123679, 12469, 134578, 158, 2345, 257, 3689, 46789}
9421:9	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{582e^{12}}, \frac{1}{77}\sqrt{6402e^{13}} + \frac{2}{77}\sqrt{291e^{24}}, \frac{1}{77}\sqrt{1358e^{16}},$ $\frac{2}{77}\sqrt{291e^{18}}$	$(-\frac{5}{77}, \frac{3}{11}, \frac{4}{77}, \frac{18}{77}, -\frac{53}{77}, \frac{16}{77}, \frac{39}{77}, \frac{1}{7}, \frac{6}{77})$ $+\frac{1}{77}\sqrt{12610e^3} \otimes e_5$	{123689, 12456789, 134, 157, 23478, 258, 3679, 4569}
9421:9	$0, 0, 0, 0, 0, \frac{10}{103}\sqrt{5e^{12}}, \frac{100}{309}\sqrt{2e^{13}} + \frac{10}{309}\sqrt{65e^{24}}, \frac{5}{309}\sqrt{185e^{16}},$ $\frac{10}{309}\sqrt{65e^{18}}$	$(-\frac{15}{103}, \frac{70}{309}, \frac{20}{103}, -\frac{55}{309}, \frac{140}{309}, \frac{25}{309}, \frac{5}{103}, -\frac{20}{309}, -\frac{65}{309})$ $+\frac{5}{309}\sqrt{1155e^3} \otimes e_9 + \frac{5}{309}\sqrt{1155e^5} \otimes e_7 + \frac{5}{309}\sqrt{535e^2} \otimes e_4$	{1479, 3467}
9421:9	$0, 0, 0, 0, 0, \frac{4}{2859}\sqrt{71205e^{12}}, \frac{10}{2859}\sqrt{16766e^{13}} + \frac{50}{2859}\sqrt{202e^{24}},$ $\frac{2}{2859}\sqrt{31310e^{16}}, \frac{2}{2859}\sqrt{340370e^{18}}$	$(-\frac{227}{953}, \frac{1316}{2859}, \frac{431}{953}, -\frac{704}{2859}, \frac{322}{2859}, \frac{635}{2859}, \frac{204}{953}, -\frac{46}{2859}, -\frac{727}{2859})$ $+\frac{2}{2859}\sqrt{1162510e^2} \otimes e_4 + \frac{4}{953}\sqrt{38885e^3} \otimes e_9$	{134568, 13468, 4589, 489}
9421:9	$0, 0, 0, 0, 0, \frac{4}{2859}\sqrt{71205e^{12}}, \frac{10}{2859}\sqrt{16766e^{13}} + \frac{2}{2859}\sqrt{340370e^{24}},$ $\frac{2}{2859}\sqrt{31310e^{16}}, \frac{50}{2859}\sqrt{202e^{18}}$	$(-\frac{73}{953}, \frac{854}{2859}, -\frac{31}{953}, \frac{1166}{2859}, \frac{1708}{2859}, \frac{635}{2859}, -\frac{104}{953}, \frac{416}{2859}, \frac{197}{2859})$ $+\frac{2}{2859}\sqrt{1162510e^2} \otimes e_4 + \frac{4}{953}\sqrt{38885e^5} \otimes e_7$	{127, 146789, 23679, 3478}
9421:9	$0, 0, 0, 0, 0, \frac{1}{527}\sqrt{70122e^{12}}, \frac{1}{527}\sqrt{79170e^{13}} + \frac{7}{527}\sqrt{754e^{24}}, \frac{6}{527}\sqrt{377e^{16}},$ $\frac{7}{527}\sqrt{754e^{18}}$	$(-\frac{80}{527}, \frac{242}{527}, \frac{11}{31}, -\frac{135}{527}, -\frac{190}{527}, \frac{162}{527}, \frac{107}{527}, \frac{82}{527}, \frac{2}{527})$ $+\frac{1}{527}\sqrt{177190e^2} \otimes e_4 + \frac{1}{527}\sqrt{181714e^3} \otimes e_5$	{123, 134689, 2569, 458}
9421:9	$0, 0, 0, 0, 0, \frac{4}{1211}\sqrt{27699e^{12}}, \frac{1}{1211}\sqrt{962870e^{13}} + \frac{26}{1211}\sqrt{1319e^{24}},$ $\frac{1}{1211}\sqrt{145090e^{16}}, \frac{1}{1211}\sqrt{2638e^{18}}$	$(\frac{57}{1211}, \frac{30}{1211}, -\frac{165}{1211}, -\frac{138}{1211}, 1, \frac{87}{1211}, -\frac{108}{1211}, \frac{144}{1211}, \frac{201}{1211})$ $+\frac{1}{1211}\sqrt{2667018e^5} \otimes e_7$	{1234568, 12678, 1359, 1479, 23789, 24589, 3467, 56}
9421:9	$0, 0, 0, 0, 0, \frac{21}{142}\sqrt{2e^{12}}, \frac{9}{142}\sqrt{14e^{13}} + \frac{6}{71}\sqrt{42e^{24}}, \frac{3}{142}\sqrt{119e^{16}},$ $\frac{3}{142}\sqrt{434e^{18}}$	$(-\frac{21}{142}, \frac{18}{71}, \frac{51}{284}, -\frac{63}{284}, \frac{135}{284}, \frac{15}{142}, \frac{9}{142}, -\frac{71}{142}, -\frac{27}{142})$ $+\frac{3}{142}\sqrt{1043e^2} \otimes e_9 + \frac{3}{142}\sqrt{714e^5} \otimes e_7$	{12378, 12458, 134679, 1569}
9421:9	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{195e^{12}}, \frac{6}{107}\sqrt{143e^{13}} + \frac{4}{107}\sqrt{390e^{24}}, \frac{2}{107}\sqrt{663e^{16}},$ $\frac{4}{107}\sqrt{390e^{18}}$	$(-\frac{26}{107}, \frac{47}{107}, \frac{51}{107}, -\frac{22}{107}, \frac{18}{107}, \frac{21}{107}, \frac{25}{107}, -\frac{5}{107}, -\frac{31}{107})$ $+\frac{2}{107}\sqrt{3471e^2} \otimes e_9$	{123578, 12378, 12458, 1248, 1345679, 134679, 1569, 169}
9421:9	$0, 0, 0, 0, 0, \frac{2}{3009}\sqrt{60490e^{12}}, \frac{2}{3009}\sqrt{247483e^{13}} + \frac{2}{3009}\sqrt{199354e^{24}},$ $\frac{16}{3009}\sqrt{3682e^{16}}, \frac{4}{3009}\sqrt{81530e^{18}}$	$(\frac{322}{3009}, -\frac{229}{1003}, -\frac{4}{59}, \frac{805}{3009}, \frac{301}{3009}, -\frac{365}{3009}, \frac{2}{51}, -\frac{43}{3009}, \frac{93}{1003})$ $+\frac{2}{3009}\sqrt{331906e^4} \otimes e_9 + \frac{2}{3009}\sqrt{380298e^1} \otimes e_3$	{12458, 1248, 1569, 169}
9421:9	$0, 0, 0, 0, 0, \frac{4}{325}\sqrt{651e^{12}}, \frac{1}{325}\sqrt{8246e^{13}} + \frac{1}{325}\sqrt{20398e^{24}}, \frac{7}{325}\sqrt{62e^{16}},$ $\frac{4}{325}\sqrt{4991e^{18}}$	$(-\frac{56}{325}, \frac{113}{325}, \frac{162}{325}, -\frac{7}{25}, -\frac{8}{25}, \frac{57}{325}, \frac{106}{325}, \frac{1}{325}, -\frac{11}{65})$ $+\frac{12}{325}\sqrt{434e^2} \otimes e_5 + \frac{1}{325}\sqrt{61194e^3} \otimes e_9$	{12348, 145679, 24689, 3457}
9421:9	$0, 0, 0, 0, 0, \frac{9}{245}\sqrt{37e^{12}}, \frac{9}{245}\sqrt{123e^{13}} + \frac{72}{245}\sqrt{3e^{24}}, \frac{9}{245}\sqrt{58e^{16}},$ $\frac{9}{245}\sqrt{133e^{18}}$	$(-\frac{27}{245}, \frac{6}{35}, \frac{87}{245}, \frac{18}{245}, -\frac{9}{35}, \frac{3}{49}, \frac{12}{49}, -\frac{12}{245}, -\frac{39}{245})$ $+\frac{9}{245}\sqrt{177e^4} \otimes e_5 + \frac{9}{245}\sqrt{262e^2} \otimes e_9$	{123578, 1248, 134679, 1569}
9421:9	$0, 0, 0, 0, 0, \frac{12}{637}\sqrt{1034e^{12}}, \frac{8}{637}\sqrt{2491e^{13}} + \frac{4}{637}\sqrt{1786e^{24}},$ $\frac{4}{637}\sqrt{13301e^{16}}, \frac{4}{637}\sqrt{10199e^{18}}$	$(\frac{151}{637}, -\frac{136}{637}, -\frac{225}{637}, \frac{62}{637}, \frac{100}{637}, \frac{15}{637}, -\frac{74}{637}, \frac{166}{637}, \frac{317}{637})$ $+\frac{4}{637}\sqrt{25239e^1} \otimes e_3$	{12458, 1248, 1569, 169, 2345689, 234689, 3, 35}
9421:10	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1870e^{12}}, \frac{2}{97}\sqrt{110e^{34}}, \frac{1}{97}\sqrt{2530e^{16}},$ $\frac{1}{97}\sqrt{1870e^{18}} + \frac{1}{97}\sqrt{110e^{23}}$	$(\frac{12}{97}, -\frac{5}{97}, \frac{36}{97}, -\frac{19}{97}, -\frac{43}{97}, \frac{7}{97}, \frac{17}{97}, \frac{19}{97}, \frac{31}{97})$ $+\frac{2}{97}\sqrt{770e^3} \otimes e_4 + \frac{4}{97}\sqrt{385e^1} \otimes e_5$	{12378, 13679, 2456789, 457}
9421:10	$0, 0, 0, 0, 0, \frac{1}{1132}\sqrt{55969e^{12}}, \frac{1}{1132}\sqrt{93314e^{34}}, \frac{1}{1132}\sqrt{54514e^{16}},$ $\frac{1}{1132}\sqrt{55969e^{18}} + \frac{1}{1132}\sqrt{60334e^{23}}$	$(-\frac{15}{1132}, \frac{295}{2264}, -\frac{45}{1132}, -\frac{67}{1132}, -\frac{41}{283}, \frac{265}{2264}, -\frac{28}{283}, \frac{235}{2264}, \frac{205}{2264})$ $+\frac{17}{1132}\sqrt{194e^4} \otimes e_5 + \frac{1}{566}\sqrt{34823e^1} \otimes e_7$	{1258, 1569, 2356789, 357}
9421:10	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{402e^{12}}, \frac{2}{53}\sqrt{134e^{34}}, \frac{1}{53}\sqrt{402e^{16}},$ $\frac{1}{53}\sqrt{402e^{18}} + \frac{1}{53}\sqrt{2814e^{23}}$	$(\frac{12}{53}, -\frac{9}{53}, \frac{36}{53}, -\frac{31}{53}, \frac{9}{53}, \frac{3}{53}, \frac{5}{53}, \frac{15}{53}, \frac{27}{53})$ $+\frac{2}{53}\sqrt{1474e^3} \otimes e_4$	{12356, 1236, 13589, 1389, 2459, 249, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:10	$0, 0, 0, 0, 0, \frac{1}{392}\sqrt{28851e^{12}}, \frac{1}{392}\sqrt{141810e^{34}}, \frac{5}{392}\sqrt{978e^{16}},$ $\frac{1}{392}\sqrt{28851e^{18}} + \frac{1}{392}\sqrt{42054e^{23}}$	$(-\frac{9}{392}, \frac{177}{784}, -\frac{27}{392}, \frac{247}{392}, -\frac{121}{196}, \frac{159}{784}, \frac{55}{98}, \frac{141}{784}, \frac{123}{784})$ $+ \frac{1}{392}\sqrt{310026e^4} \otimes e_5$	{12478, 1258, 14679, 1569, 234689, 2356789, 34, 357}
9421:10	$0, 0, 0, 0, 0, \frac{5}{1004}\sqrt{447e^{12}}, \frac{1}{1004}\sqrt{204130e^{34}}, \frac{1}{1004}\sqrt{58110e^{16}},$ $\frac{5}{1004}\sqrt{447e^{18}} + \frac{7}{1004}\sqrt{4470e^{23}}$	$(\frac{93}{1004}, -\frac{45}{2008}, \frac{279}{1004}, -\frac{233}{502}, \frac{279}{502}, \frac{141}{2008}, -\frac{187}{1004}, \frac{327}{2008}, \frac{513}{2008})$ $+ \frac{1}{502}\sqrt{166135e^3} \otimes e_4 + \frac{21}{1004}\sqrt{1490e^5} \otimes e_7$	{12367, 13789, 2479, 4678}
9421:10	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{3270e^{12}}, \frac{2}{137}\sqrt{1090e^{34}}, \frac{1}{411}\sqrt{29866e^{16}},$ $\frac{1}{137}\sqrt{3270e^{18}} + \frac{1}{411}\sqrt{28122e^{23}}$	$(\frac{4}{411}, \frac{19}{137}, \frac{4}{137}, -\frac{39}{137}, \frac{21}{411}, \frac{61}{411}, -\frac{35}{137}, \frac{65}{411}, \frac{23}{137})$ $+ \frac{2}{411}\sqrt{18966e^1} \otimes e_7$	{1258, 128, 1569, 169, 2356789, 236789, 357, 37}
9421:10	$0, 0, 0, 0, 0, \frac{2}{1529}\sqrt{351663e^{12}}, \frac{2}{1529}\sqrt{54483e^{34}}, \frac{1}{1529}\sqrt{287274e^{16}},$ $\frac{52}{1529}\sqrt{254e^{18}} + \frac{3}{1529}\sqrt{168402e^{23}}$	$(-\frac{4}{139}, \frac{644}{1529}, -\frac{12}{139}, \frac{327}{1529}, -\frac{1007}{1529}, \frac{600}{1529}, \frac{195}{1529}, \frac{4}{11}, \frac{512}{1529})$ $+ \frac{2}{1529}\sqrt{1046734e^2} \otimes e_5$	{12489, 12789, 1456, 1567, 234678, 2368, 34579, 359}
9421:10	$0, 0, 0, 0, 0, \frac{3}{487}\sqrt{1870e^{12}}, \frac{1}{487}\sqrt{29370e^{34}}, \frac{1}{487}\sqrt{32010e^{16}},$ $\frac{1}{487}\sqrt{49170e^{18}} + \frac{11}{487}\sqrt{30e^{23}}$	$(-\frac{6}{487}, \frac{20}{487}, -\frac{18}{487}, \frac{167}{487}, -\frac{171}{487}, \frac{14}{487}, \frac{149}{487}, \frac{8}{487}, \frac{2}{487})$ $+ \frac{14}{487}\sqrt{330e^4} \otimes e_9 + \frac{33}{487}\sqrt{70e^1} \otimes e_5$	{12478, 169, 2356789, 345}
9421:10	$0, 0, 0, 0, 0, \frac{1}{392}\sqrt{28851e^{12}}, \frac{1}{392}\sqrt{141810e^{34}}, \frac{5}{392}\sqrt{978e^{16}},$ $\frac{1}{392}\sqrt{28851e^{18}} + \frac{1}{392}\sqrt{42054e^{23}}$	$(-\frac{9}{392}, \frac{177}{784}, -\frac{27}{392}, -\frac{5}{28}, \frac{1}{784}, \frac{159}{392}, \frac{97}{784}, \frac{141}{784}, \frac{123}{784})$ $+ \frac{1}{392}\sqrt{310026e^5} \otimes e_7$	{12478, 1258, 14679, 1569, 2345689, 236789, 345, 37}
9421:10	$0, 0, 0, 0, 0, \frac{1}{2215}\sqrt{697818e^{12}}, \frac{1}{2215}\sqrt{527098e^{34}}, \frac{2}{2215}\sqrt{41613e^{16}},$ $\frac{4}{2215}\sqrt{32010e^{18}} + \frac{11}{2215}\sqrt{11058e^{23}}$	$(\frac{69}{2215}, \frac{414}{2215}, \frac{207}{2215}, -\frac{172}{443}, \frac{234}{2215}, \frac{483}{2215}, -\frac{653}{2215}, \frac{552}{2215}, \frac{621}{2215})$ $+ \frac{11}{2215}\sqrt{14938e^3} \otimes e_4 + \frac{18}{2215}\sqrt{7469e^2} \otimes e_7$	{14567, 1467, 3579, 379}
9421:10	$0, 0, 0, 0, 0, \frac{2}{4889}\sqrt{1094765e^{12}}, \frac{8}{4889}\sqrt{105245e^{34}}, \frac{14}{4889}\sqrt{4030e^{16}},$ $\frac{4}{4889}\sqrt{62930e^{18}} + \frac{2}{4889}\sqrt{252805e^{23}}$	$(-\frac{413}{4889}, \frac{1786}{4889}, -\frac{1239}{4889}, \frac{855}{4889}, -\frac{1315}{4889}, \frac{1373}{4889}, -\frac{384}{4889}, \frac{960}{4889}, \frac{547}{4889})$ $+ \frac{2}{4889}\sqrt{2019185e^4} \otimes e_5 + \frac{2}{4889}\sqrt{2692970e^2} \otimes e_7$	{12589, 1467, 23468, 3579}
9421:10	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{5e^{12}}, \frac{3}{53}\sqrt{58e^{34}}, \frac{6}{53}\sqrt{2e^{16}},$ $\frac{6}{53}\sqrt{5e^{18}} + \frac{3}{53}\sqrt{38e^{23}}$	$(-\frac{6}{53}, \frac{15}{53}, -\frac{18}{53}, \frac{15}{53}, \frac{6}{53}, \frac{9}{53}, -\frac{3}{53}, \frac{3}{53}, -\frac{3}{53})$ $+ \frac{3}{53}\sqrt{94e^2} \otimes e_7 - \frac{3}{53}\sqrt{94e^4} \otimes e_9$	{123458, 12348, 135679, 13679, 25689, 2689, 457, 47}
9421:10	$0, 0, 0, 0, 0, \frac{6}{53}\sqrt{5e^{12}}, \frac{3}{53}\sqrt{58e^{34}}, \frac{6}{53}\sqrt{2e^{16}},$ $\frac{6}{53}\sqrt{5e^{18}} + \frac{3}{53}\sqrt{38e^{23}}$	$(-\frac{6}{53}, \frac{15}{53}, -\frac{18}{53}, \frac{15}{53}, \frac{6}{53}, \frac{9}{53}, -\frac{3}{53}, \frac{3}{53}, -\frac{3}{53})$ $+ \frac{3}{53}\sqrt{94e^2} \otimes e_7 + \frac{3}{53}\sqrt{94e^4} \otimes e_9$	{123458, 12348, 135679, 13679, 25689, 2689, 457, 47}
9421:10	$0, 0, 0, 0, 0, \frac{5}{101}\sqrt{38e^{12}}, \frac{4}{101}\sqrt{95e^{34}}, \frac{3}{101}\sqrt{114e^{16}},$ $\frac{5}{101}\sqrt{38e^{18}} + \frac{19}{101}\sqrt{2e^{23}}$	$(\frac{4}{101}, \frac{7}{101}, \frac{12}{101}, -\frac{27}{101}, -\frac{7}{101}, \frac{11}{101}, -\frac{15}{101}, \frac{15}{101}, \frac{19}{101})$ $+ \frac{2}{101}\sqrt{190e^3} \otimes e_5 + \frac{2}{101}\sqrt{646e^1} \otimes e_7$	{1258, 1569, 236789, 37}
9421:10	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1110e^{12}}, \frac{2}{51}\sqrt{111e^{34}}, \frac{1}{51}\sqrt{1258e^{16}},$ $\frac{1}{51}\sqrt{1110e^{18}} + \frac{1}{17}\sqrt{74e^{23}}$	$(\frac{4}{51}, \frac{1}{17}, \frac{4}{17}, \frac{1}{17}, -\frac{11}{17}, \frac{7}{51}, \frac{5}{17}, \frac{11}{51}, \frac{5}{17})$ $+ \frac{2}{51}\sqrt{777e^1} \otimes e_5$	{12478, 128, 14679, 169, 2345689, 2356789, 345, 357}
9421:10	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{13e^{12}}, \frac{2}{23}\sqrt{19e^{34}}, \frac{1}{23}\sqrt{62e^{16}},$ $\frac{6}{23}\sqrt{2e^{18}} + \frac{1}{23}\sqrt{42e^{23}}$	$(0, \frac{2}{23}, 0, -\frac{5}{23}, \frac{7}{23}, \frac{2}{23}, -\frac{5}{23}, \frac{2}{23}, \frac{2}{23})$ $+ \frac{2}{23}\sqrt{10e^5} \otimes e_9 + \frac{2}{23}\sqrt{39e^1} \otimes e_7 + \frac{2}{23}e^3 \otimes e_4$	{236789, 357}
9421:10	$0, 0, 0, 0, 0, \frac{4}{4889}\sqrt{62930e^{12}}, \frac{8}{4889}\sqrt{105245e^{34}}, \frac{14}{4889}\sqrt{4030e^{16}},$ $\frac{4}{4889}\sqrt{1094765e^{18}} + \frac{2}{4889}\sqrt{252805e^{23}}$	$(-\frac{413}{4889}, \frac{545}{4889}, -\frac{1239}{4889}, \frac{1476}{4889}, \frac{2407}{4889}, \frac{132}{4889}, \frac{237}{4889}, -\frac{281}{4889}, -\frac{694}{4889})$ $+ \frac{2}{4889}\sqrt{2019185e^5} \otimes e_7 + \frac{2}{4889}\sqrt{2692970e^4} \otimes e_9$	{12569, 1478, 2345, 36789}
9421:10	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{110e^{12}}, \frac{2}{49}\sqrt{330e^{34}}, \frac{1}{49}\sqrt{330e^{16}},$ $\frac{1}{49}\sqrt{110e^{18}} + \frac{1}{49}\sqrt{1430e^{23}}$	$(\frac{8}{49}, -\frac{3}{49}, \frac{24}{49}, -\frac{3}{49}, -\frac{31}{49}, \frac{5}{49}, \frac{3}{7}, \frac{13}{49}, \frac{3}{7})$ $+ \frac{20}{49}\sqrt{11e^3} \otimes e_5$	{12346, 12367, 13489, 13789, 24579, 259, 45678, 568}
9421:10	$0, 0, 0, 0, 0, \frac{8}{271}\sqrt{118e^{12}}, \frac{1}{271}\sqrt{10974e^{34}}, \frac{5}{271}\sqrt{354e^{16}},$ $\frac{1}{271}\sqrt{10266e^{18}} + \frac{6}{271}\sqrt{177e^{23}}$	$(-\frac{1}{271}, \frac{26}{271}, -\frac{3}{271}, -\frac{57}{271}, \frac{82}{271}, \frac{25}{271}, -\frac{60}{271}, \frac{24}{271}, \frac{23}{271})$ $+ \frac{2}{271}\sqrt{1357e^5} \otimes e_9 + \frac{3}{271}\sqrt{2478e^1} \otimes e_7$	{1258, 169, 236789, 357}
9421:10	$0, 0, 0, 0, 0, \frac{1}{491}\sqrt{31070e^{12}}, \frac{1}{491}\sqrt{22466e^{34}}, \frac{2}{491}\sqrt{1673e^{16}},$ $\frac{6}{491}\sqrt{717e^{18}} + \frac{1}{491}\sqrt{87474e^{23}}$	$(\frac{39}{491}, -\frac{76}{491}, \frac{117}{491}, -\frac{122}{491}, \frac{280}{491}, -\frac{37}{491}, -\frac{5}{491}, \frac{2}{491}, \frac{41}{491})$ $+ \frac{1}{491}\sqrt{100858e^3} \otimes e_4 + \frac{2}{491}\sqrt{28441e^5} \otimes e_9$	{12469, 1458, 235, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:10	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{2622e^{12}}, \frac{1}{391}\sqrt{5738e^{34}}, \frac{1}{391}\sqrt{3458e^{16}},$ $\frac{16}{391}\sqrt{19e^{18}} + \frac{2}{391}\sqrt{589e^{23}}$	$(-\frac{15}{391}, \frac{37}{391}, -\frac{45}{391}, \frac{11}{391}, \frac{44}{391}, \frac{22}{391}, -\frac{2}{23}, \frac{7}{391}, -\frac{8}{391})$ $+ \frac{1}{391}\sqrt{8702e^1} \otimes e_7 + \frac{2}{391}\sqrt{1121e^4} \otimes e_9$	{1569, 169, 2356789, 236789}
9421:10	$0, 0, 0, 0, 0, \frac{26}{1197}\sqrt{30e^{12}}, \frac{52}{399}e^{34}, \frac{13}{1197}\sqrt{122e^{16}},$ $\frac{26}{399}\sqrt{2e^{18}} + \frac{26}{1197}\sqrt{371e^{23}}$	$(\frac{13}{1197}, \frac{26}{399}, \frac{13}{399}, -\frac{299}{1197}, \frac{65}{171}, \frac{13}{171}, -\frac{260}{1197}, \frac{104}{1197}, \frac{13}{133})$ $+ \frac{13}{1197}\sqrt{1418e^3} \otimes e_4 + \frac{13}{1197}\sqrt{1454e^5} \otimes e_9 + \frac{65}{1197}\sqrt{62e^2} \otimes e_7$	{13679, 457}
9421:10	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{66e^{12}}, \frac{2}{19}\sqrt{22e^{34}}, \frac{1}{19}\sqrt{66e^{16}},$ $\frac{1}{19}\sqrt{66e^{18}} + \frac{1}{19}\sqrt{66e^{23}}$	$(0, \frac{3}{19}, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{2}{19}\sqrt{2e^3} \otimes e_4 + \frac{2}{19}\sqrt{42e^1} \otimes e_7$	{1258, 128, 1569, 169}
9421:10	$0, 0, 0, 0, 0, \frac{6}{649}\sqrt{730e^{12}}, \frac{1}{649}\sqrt{73146e^{34}}, \frac{2}{649}\sqrt{2409e^{16}},$ $\frac{14}{649}\sqrt{219e^{18}} + \frac{2}{649}\sqrt{16206e^{23}}$	$(\frac{6}{649}, -\frac{2}{59}, \frac{18}{649}, \frac{215}{649}, -\frac{201}{649}, -\frac{16}{649}, \frac{233}{649}, -\frac{10}{649}, -\frac{4}{649})$ $+ \frac{2}{649}\sqrt{34602e^4} \otimes e_9 + \frac{3}{649}\sqrt{12994e^3} \otimes e_5$	{12569, 14578, 234, 36789}
9421:10	$0, 0, 0, 0, 0, \frac{2}{1909}\sqrt{91105e^{12}}, \frac{1}{1909}\sqrt{109326e^{34}}, \frac{5}{1909}\sqrt{5754e^{16}},$ $\frac{2}{1909}\sqrt{54663e^{18}} + \frac{3}{1909}\sqrt{97818e^{23}}$	$(-\frac{154}{1909}, \frac{494}{1909}, -\frac{462}{1909}, -\frac{3}{1909}, \frac{991}{1909}, \frac{340}{1909}, -\frac{465}{1909}, \frac{186}{1909}, \frac{32}{1909})$ $+ \frac{2}{1909}\sqrt{367297e^5} \otimes e_9 + \frac{6}{1909}\sqrt{48909e^2} \otimes e_7$	{123458, 13679, 2689, 457}
9421:10	$0, 0, 0, 0, 0, \frac{14}{649}\sqrt{219e^{12}}, \frac{1}{649}\sqrt{73146e^{34}}, \frac{2}{649}\sqrt{2409e^{16}},$ $\frac{6}{649}\sqrt{730e^{18}} + \frac{2}{649}\sqrt{16206e^{23}}$	$(\frac{6}{649}, \frac{136}{649}, \frac{18}{649}, \frac{101}{649}, -\frac{201}{649}, \frac{142}{649}, -\frac{83}{649}, \frac{148}{649}, \frac{14}{59})$ $+ \frac{2}{649}\sqrt{34602e^2} \otimes e_7 + \frac{3}{649}\sqrt{12994e^3} \otimes e_5$	{12589, 14567, 23468, 379}
9421:10	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{49170e^{12}}, \frac{1}{487}\sqrt{29370e^{34}}, \frac{1}{487}\sqrt{32010e^{16}},$ $\frac{3}{487}\sqrt{1870e^{18}} + \frac{11}{487}\sqrt{30e^{23}}$	$(-\frac{6}{487}, \frac{118}{487}, -\frac{18}{487}, -\frac{29}{487}, -\frac{171}{487}, \frac{112}{487}, -\frac{47}{487}, \frac{106}{487}, \frac{100}{487})$ $+ \frac{14}{487}\sqrt{330e^2} \otimes e_7 + \frac{33}{487}\sqrt{70e^1} \otimes e_5$	{128, 14679, 2345689, 357}
9421:10	$0, 0, 0, 0, 0, \frac{1}{271}\sqrt{10266e^{12}}, \frac{1}{271}\sqrt{10974e^{34}}, \frac{5}{271}\sqrt{354e^{16}},$ $\frac{8}{271}\sqrt{118e^{18}} + \frac{6}{271}\sqrt{177e^{23}}$	$(-\frac{1}{271}, \frac{49}{271}, -\frac{3}{271}, -\frac{57}{271}, -\frac{10}{271}, \frac{48}{271}, -\frac{60}{271}, \frac{47}{271}, \frac{46}{271})$ $+ \frac{2}{271}\sqrt{1357e^2} \otimes e_5 + \frac{3}{271}\sqrt{2478e^1} \otimes e_7$	{128, 1569, 236789, 357}
9421:10	$0, 0, 0, 0, 0, \frac{6}{491}\sqrt{717e^{12}}, \frac{1}{491}\sqrt{22466e^{34}}, \frac{2}{491}\sqrt{1673e^{16}},$ $\frac{1}{491}\sqrt{31070e^{18}} + \frac{1}{491}\sqrt{87474e^{23}}$	$(\frac{39}{491}, \frac{43}{491}, \frac{117}{491}, -\frac{122}{491}, -\frac{196}{491}, \frac{82}{491}, -\frac{5}{491}, \frac{121}{491}, \frac{160}{491})$ $+ \frac{1}{491}\sqrt{100858e^3} \otimes e_4 + \frac{2}{491}\sqrt{28441e^2} \otimes e_5$	{12489, 1456, 2368, 359}
9421:10	$0, 0, 0, 0, 0, \frac{52}{1529}\sqrt{254e^{12}}, \frac{2}{1529}\sqrt{54483e^{34}}, \frac{1}{1529}\sqrt{287274e^{16}},$ $\frac{2}{1529}\sqrt{351663e^{18}} + \frac{2}{1529}\sqrt{168402e^{23}}$	$(-\frac{4}{139}, \frac{10}{1529}, -\frac{12}{139}, \frac{327}{1529}, 1, -\frac{34}{1529}, \frac{195}{1529}, -\frac{78}{1529}, -\frac{122}{1529})$ $+ \frac{2}{1529}\sqrt{1046734e^5} \otimes e_9$	{12469, 12679, 1458, 1578, 23457, 235, 346789, 3689}
9421:10	$0, 0, 0, 0, 0, \frac{2}{1909}\sqrt{54663e^{12}}, \frac{1}{1909}\sqrt{109326e^{34}}, \frac{5}{1909}\sqrt{5754e^{16}},$ $\frac{2}{1909}\sqrt{91105e^{18}} + \frac{3}{1909}\sqrt{97818e^{23}}$	$(-\frac{154}{1909}, \frac{418}{1909}, -\frac{462}{1909}, \frac{915}{1909}, -\frac{541}{1909}, \frac{264}{1909}, \frac{453}{1909}, \frac{110}{1909}, -\frac{44}{1909})$ $+ \frac{2}{1909}\sqrt{367297e^2} \otimes e_5 + \frac{6}{1909}\sqrt{48909e^4} \otimes e_9$	{12348, 135679, 2689, 457}
9421:10	$0, 0, 0, 0, 0, \frac{4}{1601}\sqrt{87978e^{12}}, \frac{2}{1601}\sqrt{313599e^{34}}, \frac{1}{1601}\sqrt{269610e^{16}},$ $\frac{18}{1601}\sqrt{1419e^{18}} + \frac{55}{1601}\sqrt{258e^{23}}$	$(-\frac{144}{1601}, \frac{830}{1601}, -\frac{432}{1601}, -\frac{157}{1601}, \frac{285}{1601}, \frac{686}{1601}, \frac{589}{1601}, \frac{542}{1601}, \frac{398}{1601})$ $+ \frac{2}{1601}\sqrt{933702e^2} \otimes e_7$	{12589, 1289, 14567, 1467, 234568, 23468, 3579, 379}
9421:10	$0, 0, 0, 0, 0, \frac{18}{1601}\sqrt{1419e^{12}}, \frac{2}{1601}\sqrt{313599e^{34}}, \frac{1}{1601}\sqrt{269610e^{16}},$ $\frac{4}{1601}\sqrt{87978e^{18}} + \frac{55}{1601}\sqrt{258e^{23}}$	$(-\frac{144}{1601}, \frac{172}{1601}, -\frac{432}{1601}, \frac{1159}{1601}, \frac{285}{1601}, \frac{28}{1601}, \frac{727}{1601}, -\frac{116}{1601}, -\frac{260}{1601})$ $+ \frac{2}{1601}\sqrt{933702e^4} \otimes e_9$	{12569, 1269, 14578, 1478, 234, 2345, 356789, 36789}
9421:11	$0, 0, 0, 0, 0, \frac{15}{2153}\sqrt{1333e^{12}}, \frac{15}{2153}\sqrt{1119e^{13}}, \frac{30}{2153}\sqrt{298e^{16}},$ $\frac{15}{2153}\sqrt{1201e^{18}} + \frac{15}{2153}\sqrt{66e^{45}}$	$(-\frac{75}{2153}, \frac{330}{2153}, -\frac{300}{2153}, -\frac{60}{2153}, \frac{165}{2153}, \frac{255}{2153}, -\frac{375}{2153}, \frac{180}{2153}, \frac{105}{2153})$ $+ \frac{225}{2153}e^5 \otimes e_4 + \frac{30}{2153}\sqrt{406e^2} \otimes e_9 + \frac{90}{2153}\sqrt{58e^1} \otimes e_3$	{1469, 1569}
9421:11	$0, 0, 0, 0, 0, \frac{3}{383}\sqrt{1855e^{12}}, \frac{3}{766}\sqrt{8610e^{13}}, \frac{15}{766}\sqrt{35e^{16}},$ $\frac{3}{383}\sqrt{455e^{18}} + \frac{6}{383}\sqrt{1155e^{45}}$	$(-\frac{105}{766}, \frac{309}{766}, -\frac{75}{1532}, \frac{345}{1532}, -\frac{357}{1532}, \frac{102}{383}, -\frac{285}{1532}, \frac{99}{766}, -\frac{3}{383})$ $+ \frac{3}{766}\sqrt{23065e^2} \otimes e_9 + \frac{9}{766}\sqrt{2730e^4} \otimes e_7$	{12345, 127, 134689, 156789}
9421:11	$0, 0, 0, 0, 0, \frac{30}{481}\sqrt{19e^{12}}, \frac{3}{481}\sqrt{2010e^{13}}, \frac{12}{481}\sqrt{115e^{16}},$ $\frac{3}{481}\sqrt{1930e^{18}} + \frac{6}{481}\sqrt{15e^{45}}$	$(-\frac{15}{481}, \frac{66}{481}, -\frac{60}{481}, \frac{51}{481}, -\frac{30}{481}, \frac{51}{481}, -\frac{75}{481}, \frac{36}{481}, \frac{21}{481})$ $+ \frac{18}{481}\sqrt{85e^1} \otimes e_3 + \frac{27}{481}\sqrt{10e^5} \otimes e_7 + \frac{3}{481}\sqrt{2110e^2} \otimes e_9$	{1248, 169}
9421:11	$0, 0, 0, 0, 0, \frac{8}{1323}\sqrt{1111e^{12}}, \frac{1}{1323}\sqrt{1326534e^{13}}, \frac{1}{1323}\sqrt{295526e^{16}},$ $\frac{101}{1323}\sqrt{66e^{18}} + \frac{2}{1323}\sqrt{301081e^{45}}$	$(\frac{23}{441}, \frac{230}{1323}, -\frac{19}{63}, \frac{781}{1323}, -\frac{344}{1323}, \frac{299}{1323}, -\frac{110}{441}, \frac{368}{1323}, \frac{437}{1323})$ $+ \frac{5}{441}\sqrt{11110e^4} \otimes e_7$	{1234689, 1256789, 1345, 17, 2378, 2458, 35679, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:11	$0, 0, 0, 0, 0, \frac{28}{1039}\sqrt{330}e^{12}, \frac{40}{1039}\sqrt{77}e^{13}, \frac{12}{1039}\sqrt{2310}e^{16},$ $\frac{24}{1039}\sqrt{385}e^{18} + \frac{8}{1039}\sqrt{1155}e^{45}$	$(\frac{165}{1039}, -\frac{93}{1039}, -\frac{395}{1039}, \frac{330}{1039}, \frac{72}{1039}, \frac{72}{1039}, -\frac{230}{1039}, \frac{237}{1039}, \frac{402}{1039})$ $+ \frac{4}{1039}\sqrt{45010}e^1 \otimes e_3 + \frac{8}{1039}\sqrt{4515}e^4 \otimes e_7$	{12458, 1469, 234689, 345}
9421:11	$0, 0, 0, 0, 0, \frac{6}{353}\sqrt{1921}e^{12}, \frac{102}{353}\sqrt{3}e^{13}, \frac{6}{353}\sqrt{646}e^{16},$ $\frac{6}{353}\sqrt{1105}e^{18} + \frac{24}{353}\sqrt{102}e^{45}$	$(-\frac{102}{353}, \frac{240}{353}, \frac{114}{353}, -\frac{33}{353}, -\frac{33}{353}, \frac{138}{353}, \frac{12}{353}, \frac{36}{353}, -\frac{66}{353})$ $+ \frac{6}{353}\sqrt{4930}e^2 \otimes e_9$	{1234578, 12378, 12458, 128, 134679, 1469}
9421:11	$0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{2}{9}\sqrt{6}e^{13}, \frac{2}{9}\sqrt{10}e^{16}, \frac{4}{9}\sqrt{3}e^{18} + \frac{2}{9}\sqrt{2}e^{45}$	$(\frac{1}{3}, -\frac{5}{9}, 0, \frac{2}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{3}, \frac{1}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30}e^1 \otimes e_2$	{1348, 1478, 2347, 24}
9421:11	$0, 0, 0, 0, 0, \frac{7}{139}\sqrt{14}e^{12}, \frac{7}{139}\sqrt{78}e^{13}, \frac{21}{139}\sqrt{2}e^{16},$ $\frac{7}{139}e^{18} + \frac{21}{139}\sqrt{5}e^{45}$	$(-\frac{49}{278}, \frac{105}{278}, \frac{28}{139}, -\frac{35}{139}, \frac{14}{139}, \frac{28}{139}, \frac{7}{278}, \frac{7}{278}, -\frac{21}{139})$ $+ \frac{49}{139}e^5 \otimes e_4 - \frac{7}{139}\sqrt{110}e^3 \otimes e_9 + \frac{7}{139}\sqrt{95}e^2 \otimes e_7$	{146789, 156789, 2469, 2569}
9421:11	$0, 0, 0, 0, 0, \frac{7}{139}\sqrt{14}e^{12}, \frac{7}{139}\sqrt{78}e^{13}, \frac{21}{139}\sqrt{2}e^{16},$ $\frac{7}{139}e^{18} + \frac{21}{139}\sqrt{5}e^{45}$	$(-\frac{49}{278}, \frac{105}{278}, \frac{28}{139}, -\frac{35}{139}, \frac{14}{139}, \frac{28}{139}, \frac{7}{278}, \frac{7}{278}, -\frac{21}{139})$ $+ \frac{49}{139}e^5 \otimes e_4 + \frac{7}{139}\sqrt{110}e^3 \otimes e_9 + \frac{7}{139}\sqrt{95}e^2 \otimes e_7$	{146789, 156789, 2469, 2569}
9421:11	$0, 0, 0, 0, 0, \frac{7}{129}\sqrt{89}e^{12}, \frac{1}{129}\sqrt{4717}e^{13}, \frac{2}{129}\sqrt{178}e^{16},$ $\frac{1}{129}\sqrt{2759}e^{18} + \frac{2}{129}\sqrt{445}e^{45}$	$(-\frac{17}{129}, \frac{20}{43}, -\frac{4}{43}, \frac{49}{129}, -\frac{40}{129}, \frac{1}{3}, -\frac{29}{129}, \frac{26}{129}, \frac{3}{43})$ $+ \frac{2}{129}\sqrt{3115}e^2 \otimes e_7 + \frac{89}{129}e^4 \otimes e_5$	{146789, 156789, 2469, 2569}
9421:11	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{2}{13}\sqrt{10}e^{16},$ $\frac{4}{13}\sqrt{3}e^{18} + \frac{2}{13}\sqrt{2}e^{45}$	$(\frac{3}{13}, -\frac{5}{13}, 0, \frac{6}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{30}e^1 \otimes e_2 + \frac{8}{13}e^4 \otimes e_5$	{1348, 1358, 1478, 1578, 2347, 2357, 24, 25}
9421:11	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{2}{13}\sqrt{10}e^{16},$ $\frac{4}{13}\sqrt{3}e^{18} + \frac{2}{13}\sqrt{2}e^{45}$	$(\frac{3}{13}, -\frac{5}{13}, 0, \frac{6}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{30}e^1 \otimes e_2 - \frac{8}{13}e^4 \otimes e_5$	{1348, 1358, 1478, 1578, 2347, 2357, 24, 25}
9421:11	$0, 0, 0, 0, 0, \frac{14}{229}\sqrt{14}e^{12}, \frac{14}{229}\sqrt{78}e^{13}, \frac{42}{229}\sqrt{2}e^{16},$ $\frac{14}{229}e^{18} + \frac{42}{229}\sqrt{5}e^{45}$	$(-\frac{49}{229}, \frac{105}{229}, \frac{56}{229}, -\frac{21}{229}, -\frac{21}{229}, \frac{56}{229}, \frac{7}{229}, \frac{7}{229}, -\frac{42}{229})$ $+ \frac{14}{229}\sqrt{110}e^3 \otimes e_9 + \frac{14}{229}\sqrt{95}e^2 \otimes e_7$	{123, 12345, 146789, 2469, 34578, 378}
9421:11	$0, 0, 0, 0, 0, \frac{14}{229}\sqrt{14}e^{12}, \frac{14}{229}\sqrt{78}e^{13}, \frac{42}{229}\sqrt{2}e^{16},$ $\frac{14}{229}e^{18} + \frac{42}{229}\sqrt{5}e^{45}$	$(-\frac{49}{229}, \frac{105}{229}, \frac{56}{229}, -\frac{21}{229}, -\frac{21}{229}, \frac{56}{229}, \frac{7}{229}, \frac{7}{229}, -\frac{42}{229})$ $- \frac{14}{229}\sqrt{110}e^3 \otimes e_9 + \frac{14}{229}\sqrt{95}e^2 \otimes e_7$	{123, 12345, 146789, 2469, 34578, 378}
9421:11	$0, 0, 0, 0, 0, \frac{2}{21}e^{12}, \frac{1}{21}\sqrt{66}e^{13}, \frac{2}{21}\sqrt{6}e^{16},$ $\frac{1}{21}\sqrt{66}e^{18} + \frac{2}{21}\sqrt{6}e^{45}$	$(\frac{1}{14}, -\frac{3}{14}, \frac{2}{7}, 0, 0, -\frac{1}{7}, \frac{5}{14}, -\frac{1}{14}, 0)$ $+ \frac{1}{21}\sqrt{114}e^1 \otimes e_2 + \frac{1}{21}\sqrt{114}e^3 \otimes e_9$	{13458, 138, 23457, 237}
9421:11	$0, 0, 0, 0, 0, \frac{2}{679}\sqrt{43581}e^{12}, \frac{2}{679}\sqrt{43979}e^{13}, \frac{20}{679}\sqrt{597}e^{16},$ $\frac{18}{679}\sqrt{597}e^{18} + \frac{8}{679}\sqrt{597}e^{45}$	$(\frac{138}{679}, -\frac{120}{679}, -\frac{260}{679}, \frac{21}{97}, \frac{21}{97}, \frac{18}{679}, -\frac{122}{679}, \frac{156}{679}, \frac{42}{97})$ $+ \frac{4}{679}\sqrt{28855}e^1 \otimes e_3$	{1248, 14569, 169, 2345689, 23689, 34}
9421:11	$0, 0, 0, 0, 0, \frac{3}{253}\sqrt{1921}e^{12}, \frac{51}{253}\sqrt{3}e^{13}, \frac{3}{253}\sqrt{646}e^{16},$ $\frac{3}{253}\sqrt{1105}e^{18} + \frac{12}{253}\sqrt{102}e^{45}$	$(-\frac{51}{253}, \frac{120}{253}, \frac{57}{253}, \frac{60}{253}, -\frac{93}{253}, \frac{3}{253}, \frac{6}{253}, \frac{18}{253}, -\frac{3}{23})$ $+ \frac{153}{253}e^4 \otimes e_5 + \frac{3}{253}\sqrt{4930}e^2 \otimes e_9$	{134679, 135679, 1469, 1569}
9421:11	$0, 0, 0, 0, 0, \frac{46}{2593}\sqrt{813}e^{12}, \frac{46}{2593}\sqrt{287}e^{13}, \frac{92}{2593}\sqrt{174}e^{16},$ $\frac{966}{2593}e^{18} + \frac{184}{2593}\sqrt{3}e^{45}$	$(\frac{138}{2593}, \frac{276}{2593}, -\frac{920}{2593}, \frac{345}{2593}, \frac{345}{2593}, \frac{414}{2593}, -\frac{782}{2593}, \frac{552}{2593}, \frac{690}{2593})$ $+ \frac{184}{2593}\sqrt{94}e^1 \otimes e_3 + \frac{276}{2593}\sqrt{22}e^2 \otimes e_7$	{1248, 2345689, 23689}
9421:11	$0, 0, 0, 0, 0, \frac{4}{109}\sqrt{13}e^{12}, \frac{2}{327}\sqrt{1398}e^{13}, \frac{2}{327}\sqrt{66}e^{16},$ $\frac{4}{327}\sqrt{66}e^{18} + \frac{2}{327}\sqrt{906}e^{45}$	$(\frac{2}{109}, -\frac{6}{109}, \frac{8}{109}, -\frac{18}{109}, \frac{18}{109}, -\frac{4}{109}, \frac{10}{109}, -\frac{2}{109}, 0)$ $+ \frac{24}{109}e^5 \otimes e_7 + \frac{2}{327}\sqrt{942}e^1 \otimes e_2 + \frac{4}{327}\sqrt{357}e^3 \otimes e_9$	{1479, 2589}
9421:11	$0, 0, 0, 0, 0, \frac{14}{169}\sqrt{89}e^{12}, \frac{2}{169}\sqrt{4717}e^{13}, \frac{4}{169}\sqrt{178}e^{16},$ $\frac{2}{169}\sqrt{2759}e^{18} + \frac{4}{169}\sqrt{445}e^{45}$	$(-\frac{34}{169}, \frac{120}{169}, -\frac{24}{169}, \frac{9}{169}, \frac{9}{169}, \frac{86}{169}, -\frac{58}{169}, \frac{4}{169}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115}e^2 \otimes e_7$	{123, 12345, 146789, 2469, 34578, 378}
9421:11	$0, 0, 0, 0, 0, \frac{8}{369}\sqrt{157}e^{12}, \frac{4}{369}\sqrt{2355}e^{13}, \frac{2}{369}\sqrt{2041}e^{16},$ $\frac{8}{369}\sqrt{4710}e^{18} + \frac{1}{369}\sqrt{20410}e^{45}$	$(\frac{23}{123}, -\frac{88}{369}, -\frac{9}{41}, \frac{145}{369}, -\frac{26}{369}, -\frac{19}{369}, -\frac{4}{123}, \frac{50}{369}, \frac{119}{369})$ $+ \frac{1}{123}\sqrt{5966}e^4 \otimes e_7 + \frac{1}{369}\sqrt{49926}e^1 \otimes e_2$	{13458, 178, 237, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:11	$0, 0, 0, 0, 0, \frac{30}{4081}\sqrt{1333}e^{12}, \frac{30}{4081}\sqrt{1119}e^{13}, \frac{60}{4081}\sqrt{298}e^{16},$ $\frac{30}{4081}\sqrt{1201}e^{18} + \frac{60}{4081}\sqrt{66}e^{45}$	$(-\frac{150}{4081}, \frac{60}{371}, -\frac{600}{4081}, \frac{15}{583}, \frac{15}{583}, \frac{510}{4081}, -\frac{750}{4081}, \frac{360}{4081}, \frac{30}{583})$ $+ \frac{180}{4081}\sqrt{58}e^1 \otimes e_3 + \frac{60}{4081}\sqrt{406}e^2 \otimes e_9$	{12458, 128, 1469}
9421:11	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{4}{13}\sqrt{3}e^{13}, \frac{2}{13}\sqrt{2}e^{16},$ $\frac{2}{13}\sqrt{6}e^{18} + \frac{2}{13}\sqrt{10}e^{45}$	$(-\frac{3}{26}, \frac{5}{26}, \frac{6}{13}, \frac{3}{13}, -\frac{5}{13}, \frac{1}{13}, \frac{9}{26}, -\frac{1}{26}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 + \frac{8}{13}e^4 \otimes e_5$	{1479, 1579, 2489, 2589}
9421:11	$0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{4}{9}\sqrt{3}e^{13}, \frac{2}{9}\sqrt{2}e^{16}, \frac{2}{9}\sqrt{6}e^{18} + \frac{2}{9}\sqrt{10}e^{45}$	$(-\frac{1}{6}, \frac{5}{18}, \frac{2}{3}, -\frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{2}, -\frac{1}{18}, -\frac{2}{9})$ $+ \frac{2}{9}\sqrt{30}e^3 \otimes e_9$	{1234568, 12368, 1479, 2489, 34567, 367}
9421:11	$0, 0, 0, 0, 0, \frac{14}{4329}\sqrt{3355}e^{12}, \frac{2}{4329}\sqrt{701085}e^{13}, \frac{14}{4329}\sqrt{3905}e^{16},$ $\frac{70}{4329}\sqrt{66}e^{18} + \frac{2}{4329}\sqrt{582505}e^{45}$	$(-\frac{119}{1443}, \frac{757}{4329}, \frac{152}{1443}, \frac{869}{4329}, -\frac{91}{333}, \frac{400}{4329}, \frac{11}{481}, \frac{43}{4329}, -\frac{314}{4329})$ $+ \frac{22}{4329}\sqrt{6195}e^3 \otimes e_9 + \frac{4}{1443}\sqrt{21945}e^4 \otimes e_7$	{1256789, 1345, 2378, 469}
9421:11	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{749}e^{12}, \frac{1}{67}\sqrt{321}e^{13}, \frac{2}{67}\sqrt{214}e^{16},$ $\frac{1}{67}\sqrt{321}e^{18} + \frac{2}{67}\sqrt{214}e^{45}$	$(\frac{3}{67}, \frac{10}{67}, \frac{12}{67}, \frac{63}{67}, -\frac{44}{67}, \frac{13}{67}, \frac{15}{67}, \frac{16}{67}, \frac{19}{67})$ $+ \frac{107}{67}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 2346789, 2356789, 24689, 25689}
9421:11	$0, 0, 0, 0, 0, \frac{23}{1561}\sqrt{813}e^{12}, \frac{23}{1561}\sqrt{287}e^{13}, \frac{46}{1561}\sqrt{174}e^{16},$ $\frac{69}{223}e^{18} + \frac{92}{1561}\sqrt{3}e^{45}$	$(\frac{69}{1561}, \frac{138}{1561}, -\frac{460}{1561}, -\frac{92}{1561}, \frac{437}{1561}, \frac{207}{1561}, -\frac{391}{1561}, \frac{276}{1561}, \frac{345}{1561})$ $+ \frac{138}{1561}\sqrt{22}e^2 \otimes e_7 + \frac{529}{1561}e^5 \otimes e_4 + \frac{92}{1561}\sqrt{94}e^1 \otimes e_3$	{1248, 1258}
9421:11	$0, 0, 0, 0, 0, \frac{1}{439}\sqrt{43581}e^{12}, \frac{1}{439}\sqrt{43979}e^{13}, \frac{10}{439}\sqrt{597}e^{16},$ $\frac{9}{439}\sqrt{597}e^{18} + \frac{4}{439}\sqrt{597}e^{45}$	$(\frac{69}{439}, -\frac{60}{439}, -\frac{130}{439}, \frac{173}{439}, -\frac{26}{439}, \frac{9}{439}, -\frac{61}{439}, \frac{78}{439}, \frac{147}{439})$ $+ \frac{199}{439}e^4 \otimes e_5 + \frac{2}{439}\sqrt{28855}e^1 \otimes e_3$	{1248, 1258, 34, 35}
9421:12	$0, 0, 0, 0, 0, \frac{16}{283}\sqrt{30}e^{12}, \frac{48}{283}\sqrt{7}e^{13}, \frac{16}{283}\sqrt{73}e^{26},$ $\frac{16}{283}\sqrt{66}e^{28} + \frac{48}{283}e^{45}$	$(-\frac{54}{283}, \frac{50}{283}, -\frac{24}{283}, \frac{112}{283}, -\frac{16}{283}, -\frac{4}{283}, -\frac{78}{283}, \frac{46}{283}, \frac{96}{283})$ $+ \frac{128}{283}e^4 \otimes e_5 + \frac{96}{283}\sqrt{5}e^2 \otimes e_7$	{12348, 12358, 347, 357}
9421:12	$0, 0, 0, 0, 0, \frac{8}{4039}\sqrt{43287}e^{12}, \frac{4}{4039}\sqrt{201085}e^{13}, \frac{4}{4039}\sqrt{50655}e^{26},$ $\frac{12}{4039}\sqrt{11666}e^{28} + \frac{4}{4039}\sqrt{293799}e^{45}$	$(\frac{786}{4039}, \frac{108}{4039}, -\frac{1670}{4039}, \frac{1572}{4039}, -\frac{66}{577}, \frac{894}{4039}, -\frac{884}{4039}, \frac{1002}{4039}, \frac{1110}{4039})$ $+ \frac{12}{4039}\sqrt{69382}e^4 \otimes e_7 + \frac{4}{4039}\sqrt{463570}e^1 \otimes e_3$	{125789, 1678, 2367, 3579}
9421:12	$0, 0, 0, 0, 0, \frac{76}{287}\sqrt{2}e^{12}, \frac{4}{287}\sqrt{1577}e^{13}, \frac{8}{287}\sqrt{57}e^{26},$ $\frac{4}{287}\sqrt{1273}e^{28} + \frac{16}{287}\sqrt{57}e^{45}$	$(-\frac{9}{287}, -\frac{5}{287}, \frac{128}{287}, \frac{64}{287}, -\frac{88}{287}, -\frac{2}{41}, \frac{17}{41}, -\frac{19}{287}, -\frac{24}{287})$ $+ \frac{152}{287}e^4 \otimes e_5 + \frac{20}{287}\sqrt{133}e^3 \otimes e_9$	{124679, 125679, 4689, 5689}
9421:12	$0, 0, 0, 0, 0, \frac{24}{239}\sqrt{14}e^{12}, \frac{24}{239}\sqrt{21}e^{13}, \frac{6}{239}\sqrt{77}e^{26},$ $\frac{24}{239}\sqrt{14}e^{28} + \frac{24}{239}\sqrt{21}e^{45}$	$(\frac{96}{239}, -\frac{42}{239}, -\frac{15}{239}, \frac{48}{239}, -\frac{78}{239}, \frac{54}{239}, \frac{81}{239}, \frac{12}{239}, -\frac{30}{239})$ $+ \frac{126}{239}e^4 \otimes e_5 + \frac{6}{239}\sqrt{1001}e^1 \otimes e_9$	{234679, 235679, 2469, 2569}
9421:12	$0, 0, 0, 0, 0, \frac{4}{799}\sqrt{38922}e^{12}, \frac{4}{799}\sqrt{6986}e^{13}, \frac{8}{799}\sqrt{1497}e^{26},$ $\frac{18}{799}\sqrt{499}e^{28} + \frac{10}{799}\sqrt{1497}e^{45}$	$(\frac{543}{799}, -\frac{135}{799}, -\frac{455}{799}, \frac{69}{799}, \frac{69}{799}, \frac{24}{47}, \frac{88}{799}, \frac{273}{799}, \frac{138}{799})$ $+ \frac{2}{799}\sqrt{326845}e^1 \otimes e_3$	{12489, 14568, 168, 23456, 236, 349}
9421:12	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{553}e^{12}, \frac{2}{167}\sqrt{4582}e^{13}, \frac{2}{167}\sqrt{790}e^{26},$ $\frac{2}{167}\sqrt{553}e^{28} + \frac{2}{167}\sqrt{4582}e^{45}$	$(-\frac{21}{167}, \frac{34}{167}, -\frac{28}{167}, \frac{109}{167}, -\frac{28}{167}, \frac{13}{167}, -\frac{49}{167}, \frac{47}{167}, \frac{81}{167})$ $+ \frac{2}{167}\sqrt{10823}e^4 \otimes e_7$	{123456, 1267, 1349, 1579, 235789, 2489, 3678, 4568}
9421:12	$0, 0, 0, 0, 0, \frac{192}{5323}\sqrt{13}e^{12}, \frac{24}{5323}\sqrt{1497}e^{13}, \frac{24}{5323}\sqrt{1033}e^{26},$ $\frac{24}{5323}\sqrt{1330}e^{28} + \frac{24}{5323}\sqrt{501}e^{45}$	$(\frac{504}{5323}, -\frac{96}{5323}, -\frac{888}{5323}, \frac{108}{5323}, \frac{108}{5323}, \frac{408}{5323}, -\frac{384}{5323}, \frac{312}{5323}, \frac{216}{5323})$ $+ \frac{24}{5323}\sqrt{2490}e^2 \otimes e_7 + \frac{96}{5323}\sqrt{139}e^1 \otimes e_9$	{123458, 1238, 2469}
9421:12	$0, 0, 0, 0, 0, \frac{32}{161}\sqrt{3}e^{12}, \frac{48}{161}\sqrt{2}e^{13}, \frac{16}{161}\sqrt{22}e^{26},$ $\frac{32}{161}\sqrt{3}e^{28} + \frac{48}{161}\sqrt{2}e^{45}$	$(\frac{18}{161}, \frac{10}{161}, \frac{24}{161}, \frac{152}{161}, -\frac{104}{161}, \frac{4}{23}, \frac{6}{23}, \frac{38}{161}, \frac{48}{161})$ $+ \frac{256}{161}e^4 \otimes e_5$	{134689, 135689, 146789, 156789, 234679, 235679, 2469, 2569}
9421:12	$0, 0, 0, 0, 0, \frac{2}{649}\sqrt{38922}e^{12}, \frac{2}{649}\sqrt{6986}e^{13}, \frac{4}{649}\sqrt{1497}e^{26},$ $\frac{9}{649}\sqrt{499}e^{28} + \frac{5}{649}\sqrt{1497}e^{45}$	$(\frac{543}{1298}, -\frac{135}{1298}, -\frac{455}{1298}, \frac{284}{649}, -\frac{215}{649}, \frac{204}{649}, \frac{4}{59}, \frac{273}{1298}, \frac{69}{649})$ $+ \frac{1}{649}\sqrt{326845}e^1 \otimes e_3 + \frac{499}{649}e^4 \otimes e_5$	{12489, 12589, 349, 359}
9421:12	$0, 0, 0, 0, 0, \frac{192}{5467}\sqrt{13}e^{12}, \frac{24}{5467}\sqrt{1497}e^{13}, \frac{24}{5467}\sqrt{1033}e^{26},$ $\frac{24}{5467}\sqrt{1330}e^{28} + \frac{24}{5467}\sqrt{501}e^{45}$	$(\frac{72}{781}, -\frac{96}{5467}, -\frac{888}{5467}, -\frac{36}{5467}, \frac{36}{781}, \frac{408}{5467}, -\frac{384}{5467}, \frac{312}{5467}, \frac{216}{5467})$ $+ \frac{24}{5467}\sqrt{2490}e^2 \otimes e_7 + \frac{288}{5467}e^5 \otimes e_4 + \frac{96}{5467}\sqrt{139}e^1 \otimes e_9$	{2469, 2569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:12	$0, 0, 0, 0, 0, \frac{16}{219}\sqrt{30}e^{12}, \frac{16}{73}\sqrt{7}e^{13}, \frac{16}{219}\sqrt{73}e^{26},$ $\frac{16}{219}\sqrt{66}e^{28} + \frac{16}{73}e^{45}$	$(-\frac{18}{73}, \frac{50}{219}, -\frac{8}{73}, \frac{16}{73}, \frac{16}{73}, -\frac{4}{219}, -\frac{26}{73}, \frac{46}{219}, \frac{32}{73})$ $+ \frac{32}{73}\sqrt{5}e^2 \otimes e_7$	{12348, 1456789, 16789, 24569, 269, 347}
9421:12	$0, 0, 0, 0, 0, \frac{76}{211}\sqrt{2}e^{12}, \frac{4}{211}\sqrt{1577}e^{13}, \frac{8}{211}\sqrt{57}e^{26},$ $\frac{4}{211}\sqrt{1273}e^{28} + \frac{16}{211}\sqrt{57}e^{45}$	$(-\frac{9}{211}, -\frac{5}{211}, \frac{128}{211}, -\frac{12}{211}, -\frac{12}{211}, -\frac{14}{211}, \frac{119}{211}, -\frac{19}{211}, -\frac{24}{211})$ $+ \frac{20}{211}\sqrt{133}e^3 \otimes e_9$	{124679, 13, 1345, 234578, 2378, 4689}
9421:12	$0, 0, 0, 0, 0, \frac{16}{5459}\sqrt{5530}e^{12}, \frac{16}{5459}\sqrt{14581}e^{13}, \frac{560}{5459}e^{26},$ $\frac{324}{5459}\sqrt{29}e^{28} + \frac{16}{5459}\sqrt{10843}e^{45}$	$(-\frac{768}{5459}, \frac{328}{5459}, \frac{1112}{5459}, \frac{1240}{5459}, -\frac{1024}{5459}, -\frac{440}{5459}, \frac{344}{5459}, -\frac{112}{5459}, \frac{216}{5459})$ $+ \frac{16}{5459}\sqrt{18690}e^3 \otimes e_9 + \frac{32}{5459}\sqrt{3962}e^4 \otimes e_7$	{125679, 1345, 2378, 4689}
9421:12	$0, 0, 0, 0, 0, \frac{6}{271}\sqrt{57}e^{12}, \frac{36}{271}\sqrt{7}e^{13}, \frac{6}{271}\sqrt{30}e^{26},$ $\frac{6}{271}\sqrt{57}e^{28} + \frac{36}{271}\sqrt{7}e^{45}$	$(\frac{57}{271}, -\frac{18}{271}, -\frac{54}{271}, \frac{57}{271}, -\frac{54}{271}, \frac{39}{271}, \frac{3}{271}, \frac{21}{271}, \frac{3}{271})$ $+ \frac{18}{271}\sqrt{37}e^4 \otimes e_7 + \frac{6}{271}\sqrt{390}e^1 \otimes e_9$	{123458, 1278, 235679, 2469}
9421:12	$0, 0, 0, 0, 0, \frac{448}{4243}\sqrt{15}e^{12}, \frac{56}{4243}\sqrt{673}e^{13}, \frac{56}{4243}\sqrt{993}e^{26},$ $\frac{56}{4243}\sqrt{690}e^{28} + \frac{56}{4243}\sqrt{51}e^{45}$	$(\frac{168}{4243}, \frac{336}{4243}, -\frac{1400}{4243}, \frac{588}{4243}, \frac{588}{4243}, \frac{504}{4243}, -\frac{1232}{4243}, \frac{840}{4243}, \frac{1176}{4243})$ $+ \frac{224}{4243}\sqrt{79}e^1 \otimes e_3 + \frac{56}{4243}\sqrt{2442}e^2 \otimes e_7$	{1456789, 16789, 347}
9421:12	$0, 0, 0, 0, 0, \frac{3}{22}\sqrt{14}e^{12}, \frac{3}{22}\sqrt{21}e^{13}, \frac{3}{88}\sqrt{77}e^{26},$ $\frac{3}{22}\sqrt{14}e^{28} + \frac{3}{22}\sqrt{21}e^{45}$	$(\frac{6}{11}, -\frac{21}{88}, -\frac{15}{176}, \frac{15}{176}, -\frac{15}{176}, \frac{27}{88}, \frac{81}{176}, \frac{3}{44}, -\frac{15}{88})$ $+ \frac{3}{88}\sqrt{1001}e^1 \otimes e_9$	{123458, 1238, 124578, 1278, 234679, 2469}
9421:12	$0, 0, 0, 0, 0, \frac{448}{5027}\sqrt{15}e^{12}, \frac{56}{5027}\sqrt{673}e^{13}, \frac{56}{5027}\sqrt{993}e^{26},$ $\frac{56}{5027}\sqrt{690}e^{28} + \frac{56}{5027}\sqrt{51}e^{45}$	$(\frac{168}{5027}, \frac{336}{5027}, -\frac{1400}{5027}, -\frac{196}{5027}, \frac{1372}{5027}, \frac{504}{5027}, -\frac{112}{457}, \frac{840}{5027}, \frac{1176}{5027})$ $+ \frac{1568}{5027}e^5 \otimes e_4 + \frac{224}{5027}\sqrt{79}e^1 \otimes e_3 + \frac{56}{5027}\sqrt{2442}e^2 \otimes e_7$	{347, 357}
9421:13	$0, 0, 0, 0, 0, \frac{1}{154}\sqrt{10063}e^{12}, \frac{1}{231}\sqrt{26719}e^{34}, \frac{1}{154}\sqrt{2082}e^{16},$ $\frac{1}{231}\sqrt{10410}e^{18} + \frac{1}{154}\sqrt{10063}e^{25}$	$(-\frac{1}{28}, \frac{67}{154}, -\frac{73}{462}, -\frac{73}{462}, -\frac{28}{308}, \frac{123}{308}, -\frac{73}{231}, \frac{4}{11}, \frac{101}{308})$ $+ \frac{1}{462}\sqrt{264414}e^2 \otimes e_7$	{123489, 1289, 1367, 234568, 2568, 3579}
9421:13	$0, 0, 0, 0, 0, \frac{8}{2001}\sqrt{2618}e^{12}, \frac{8}{2001}\sqrt{7337}e^{34}, \frac{8}{2001}\sqrt{715}e^{16},$ $\frac{16}{2001}\sqrt{671}e^{18} + \frac{8}{2001}\sqrt{7315}e^{25}$	$(\frac{124}{2001}, -\frac{8}{69}, \frac{164}{667}, -\frac{472}{2001}, \frac{124}{667}, \frac{36}{2001}, \frac{20}{667}, \frac{16}{2001}, \frac{140}{2001})$ $+ \frac{16}{2001}\sqrt{2651}e^3 \otimes e_9 + \frac{8}{2001}\sqrt{9262}e^5 \otimes e_7$	{124679, 1378, 2345, 5689}
9421:13	$0, 0, 0, 0, 0, \frac{8}{959}\sqrt{542}e^{12}, \frac{8}{959}\sqrt{3794}e^{34}, \frac{2}{959}\sqrt{11653}e^{16},$ $\frac{8}{959}\sqrt{2710}e^{18} + \frac{8}{959}\sqrt{2710}e^{25}$	$(-\frac{106}{959}, \frac{32}{137}, \frac{64}{137}, -\frac{95}{959}, -\frac{318}{959}, \frac{118}{959}, \frac{353}{959}, \frac{12}{959}, -\frac{94}{959})$ $+ \frac{2}{959}\sqrt{147153}e^3 \otimes e_9 + \frac{2}{959}\sqrt{77777}e^2 \otimes e_5$	{145679, 1569, 246789, 2689}
9421:13	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{170}e^{12}, \frac{2}{159}\sqrt{1802}e^{34}, \frac{2}{159}\sqrt{1802}e^{16},$ $\frac{2}{53}\sqrt{170}e^{18} + \frac{2}{159}\sqrt{714}e^{25}$	$(\frac{16}{159}, \frac{1}{53}, -\frac{26}{159}, -\frac{26}{159}, \frac{16}{53}, \frac{19}{159}, -\frac{52}{159}, \frac{35}{159}, \frac{17}{53})$ $+ \frac{4}{159}\sqrt{1122}e^1 \otimes e_7$	{12348, 128, 13469, 169, 2356789, 357}
9421:13	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{19610}e^{12}, \frac{3}{146}\sqrt{370}e^{34}, \frac{3}{146}\sqrt{370}e^{16},$ $\frac{1}{146}\sqrt{2405}e^{18} + \frac{1}{146}\sqrt{2405}e^{25}$	$(-\frac{57}{292}, \frac{199}{292}, \frac{9}{73}, \frac{9}{73}, -\frac{171}{292}, \frac{71}{146}, \frac{18}{73}, \frac{85}{292}, \frac{7}{73})$ $+ \frac{1}{146}\sqrt{44030}e^2 \otimes e_5$	{13456, 13567, 156, 23468, 23678, 268}
9421:13	$0, 0, 0, 0, 0, \frac{2}{453}\sqrt{4494}e^{12}, \frac{2}{453}\sqrt{32314}e^{34}, \frac{2}{151}\sqrt{642}e^{16},$ $\frac{2}{453}\sqrt{4494}e^{18} + \frac{2}{453}\sqrt{35310}e^{25}$	$(\frac{32}{151}, -\frac{21}{151}, -\frac{70}{453}, -\frac{70}{453}, \frac{96}{151}, \frac{11}{151}, -\frac{140}{453}, \frac{43}{151}, \frac{75}{151})$ $+ \frac{4}{453}\sqrt{19902}e^5 \otimes e_7$	{123456, 1256, 134589, 1589, 2379, 3678}
9421:13	$0, 0, 0, 0, 0, \frac{2}{477}\sqrt{19610}e^{12}, \frac{2}{159}\sqrt{370}e^{34}, \frac{2}{159}\sqrt{370}e^{16},$ $\frac{2}{477}\sqrt{2405}e^{18} + \frac{2}{477}\sqrt{2405}e^{25}$	$(-\frac{19}{159}, \frac{199}{477}, \frac{221}{477}, -\frac{149}{477}, -\frac{19}{159}, \frac{142}{477}, \frac{8}{53}, \frac{85}{477}, \frac{28}{477})$ $+ \frac{2}{477}\sqrt{44030}e^2 \otimes e_5 + \frac{370}{477}e^3 \otimes e_4$	{13567, 14567, 23678, 24678}
9421:13	$0, 0, 0, 0, 0, \frac{32}{1649}\sqrt{390}e^{12}, \frac{48}{1649}\sqrt{133}e^{34}, \frac{48}{1649}\sqrt{133}e^{16},$ $\frac{336}{1649}\sqrt{2}e^{18} + \frac{16}{1649}\sqrt{615}e^{25}$	$(-\frac{16}{1649}, \frac{336}{1649}, -\frac{200}{1649}, \frac{200}{1649}, -\frac{48}{1649}, \frac{320}{1649}, -\frac{400}{1649}, \frac{304}{1649}, \frac{288}{1649})$ $+ \frac{16}{1649}\sqrt{2994}e^1 \otimes e_7 + \frac{32}{1649}\sqrt{339}e^2 \otimes e_5$	{12348, 128, 357}
9421:13	$0, 0, 0, 0, 0, \frac{6}{1271}\sqrt{10063}e^{12}, \frac{4}{1271}\sqrt{26719}e^{34}, \frac{6}{1271}\sqrt{2082}e^{16},$ $\frac{4}{1271}\sqrt{10410}e^{18} + \frac{6}{1271}\sqrt{10063}e^{25}$	$(-\frac{33}{1271}, \frac{402}{1271}, \frac{201}{1271}, -\frac{493}{1271}, -\frac{99}{1271}, \frac{9}{31}, -\frac{292}{1271}, \frac{336}{1271}, \frac{303}{1271})$ $+ \frac{2}{1271}\sqrt{264414}e^2 \otimes e_7 + \frac{694}{1271}e^3 \otimes e_4$	{1367, 1467, 3579, 4579}
9421:13	$0, 0, 0, 0, 0, \frac{6}{193}\sqrt{170}e^{12}, \frac{2}{193}\sqrt{1802}e^{34}, \frac{2}{193}\sqrt{1802}e^{16},$ $\frac{6}{193}\sqrt{170}e^{18} + \frac{2}{193}\sqrt{714}e^{25}$	$(\frac{16}{193}, \frac{3}{193}, \frac{8}{193}, -\frac{60}{193}, \frac{48}{193}, \frac{19}{193}, -\frac{52}{193}, \frac{35}{193}, \frac{51}{193})$ $+ \frac{4}{193}\sqrt{1122}e^1 \otimes e_7 + \frac{68}{193}e^3 \otimes e_4$	{2356789, 2456789, 357, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:13	$0, 0, 0, 0, 0, \frac{1}{231}\sqrt{10410}e^{12}, \frac{1}{231}\sqrt{26719}e^{34}, \frac{1}{154}\sqrt{2082}e^{16},$ $\frac{1}{154}\sqrt{10063}e^{18} + \frac{1}{154}\sqrt{10063}e^{25}$	$(-\frac{1}{28}, \frac{1}{44}, \frac{2}{3}, -\frac{73}{462}, -\frac{3}{28}, -\frac{1}{77}, \frac{235}{462}, -\frac{15}{308}, -\frac{13}{154})$ $+ \frac{1}{462}\sqrt{264414}e^3 \otimes e_9$	{124679, 1269, 1348, 1378, 2345, 2357, 456789, 5689}
9421:13	$0, 0, 0, 0, 0, \frac{32}{4683}\sqrt{390}e^{12}, \frac{8}{4683}\sqrt{20293}e^{34}, \frac{8}{1561}\sqrt{1417}e^{16},$ $\frac{40}{1561}\sqrt{78}e^{18} + \frac{8}{1561}\sqrt{221}e^{25}$	$(\frac{44}{1561}, -\frac{4}{223}, \frac{104}{669}, -\frac{1012}{4683}, \frac{132}{1561}, \frac{16}{1561}, -\frac{284}{4683}, \frac{60}{1561}, \frac{104}{1561})$ $+ \frac{16}{4683}\sqrt{5655}e^3 \otimes e_9 + \frac{8}{1561}\sqrt{3458}e^4 \otimes e_7$	{123458, 1569, 246789, 37}
9421:13	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{174}e^{12}, \frac{2}{73}\sqrt{290}e^{34}, \frac{2}{73}\sqrt{290}e^{16},$ $\frac{2}{73}\sqrt{174}e^{18} + \frac{2}{73}\sqrt{174}e^{25}$	$(\frac{4}{73}, \frac{9}{73}, \frac{68}{73}, -\frac{48}{73}, \frac{12}{73}, \frac{13}{73}, \frac{20}{73}, \frac{17}{73}, \frac{21}{73})$ $+ \frac{116}{73}e^3 \otimes e_4$	{123578, 124578, 135679, 145679, 236789, 246789, 37, 47}
9421:13	$0, 0, 0, 0, 0, \frac{4}{1713}\sqrt{4902}e^{12}, \frac{4}{1713}\sqrt{24553}e^{34}, \frac{4}{571}\sqrt{301}e^{16},$ $\frac{4}{1713}\sqrt{4902}e^{18} + \frac{4}{571}\sqrt{2365}e^{25}$	$(-\frac{34}{571}, \frac{114}{571}, \frac{380}{1713}, -\frac{382}{1713}, -\frac{102}{571}, \frac{80}{571}, -\frac{2}{1713}, \frac{46}{571}, \frac{12}{571})$ $+ \frac{4}{1713}\sqrt{32766}e^2 \otimes e_7 + \frac{4}{1713}\sqrt{32766}e^3 \otimes e_9$	{123458, 145679, 2689, 37}
9421:13	$0, 0, 0, 0, 0, \frac{2}{667}\sqrt{4494}e^{12}, \frac{2}{667}\sqrt{32314}e^{34}, \frac{6}{667}\sqrt{642}e^{16},$ $\frac{2}{667}\sqrt{4494}e^{18} + \frac{2}{667}\sqrt{35310}e^{25}$	$(\frac{96}{667}, -\frac{63}{667}, \frac{144}{667}, -\frac{284}{667}, \frac{288}{667}, \frac{33}{667}, -\frac{140}{667}, \frac{129}{667}, \frac{225}{667})$ $+ \frac{428}{667}e^3 \otimes e_4 + \frac{4}{667}\sqrt{19902}e^5 \otimes e_7$	{2379, 2479, 3678, 4678}
9421:14	$0, 0, 0, 0, 0, \frac{27}{2209}\sqrt{1193}e^{12}, \frac{513}{2209}\sqrt{3}e^{13} + \frac{162}{2209}\sqrt{2}e^{45},$ $\frac{432}{2209}\sqrt{2}e^{16}, \frac{27}{2209}\sqrt{317}e^{18} + \frac{54}{2209}\sqrt{438}e^{34}$	$(-\frac{243}{2209}, \frac{810}{2209}, -\frac{108}{2209}, \frac{189}{2209}, -\frac{540}{2209}, \frac{567}{2209}, -\frac{351}{2209}, \frac{324}{2209}, \frac{81}{2209})$ $+ \frac{27}{2209}\sqrt{1605}e^4 \otimes e_5 + \frac{54}{2209}\sqrt{590}e^2 \otimes e_9$	{1258, 1469}
9421:14	$0, 0, 0, 0, 0, \frac{47}{6557}\sqrt{818}e^{12}, \frac{47}{6557}\sqrt{922}e^{13} + \frac{658}{6557}\sqrt{14}e^{45},$ $\frac{376}{6557}\sqrt{41}e^{16}, \frac{94}{6557}\sqrt{1211}e^{18} + \frac{47}{6557}\sqrt{322}e^{34}$	$(\frac{611}{6557}, -\frac{1598}{6557}, \frac{1034}{6557}, -\frac{799}{6557}, \frac{2444}{6557}, -\frac{987}{6557}, \frac{1645}{6557}, -\frac{376}{6557}, \frac{235}{6557})$ $+ \frac{47}{6557}\sqrt{5482}e^1 \otimes e_2 + \frac{94}{6557}\sqrt{1541}e^5 \otimes e_9$	{2345, 257}
9421:14	$0, 0, 0, 0, 0, \frac{31}{1609}\sqrt{709}e^{12}, \frac{31}{1609}\sqrt{265}e^{13} + \frac{124}{1609}\sqrt{30}e^{45},$ $\frac{62}{1609}\sqrt{10}e^{16}, \frac{31}{1609}\sqrt{319}e^{18} + \frac{124}{1609}\sqrt{23}e^{34}$	$(-\frac{155}{1609}, \frac{682}{1609}, -\frac{124}{1609}, \frac{341}{1609}, -\frac{620}{1609}, \frac{527}{1609}, -\frac{279}{1609}, \frac{372}{1609}, \frac{217}{1609})$ $+ \frac{31}{1609}\sqrt{1145}e^4 \otimes e_5 + \frac{62}{1609}\sqrt{422}e^2 \otimes e_7$	{1567, 3579}
9421:14	$0, 0, 0, 0, 0, \frac{156}{571}\sqrt{7}e^{12}, \frac{12}{571}\sqrt{770}e^{13} + \frac{156}{571}\sqrt{7}e^{45}, \frac{12}{571}\sqrt{35}e^{16},$ $\frac{12}{571}\sqrt{322}e^{18} + \frac{12}{571}\sqrt{322}e^{34}$	$(-\frac{133}{571}, \frac{402}{571}, \frac{31}{571}, -\frac{28}{571}, \frac{74}{571}, \frac{269}{571}, -\frac{102}{571}, \frac{136}{571}, \frac{3}{571})$ $+ \frac{168}{571}\sqrt{17}e^2 \otimes e_7$	{123, 156789, 269, 3578}
9421:14	$0, 0, 0, 0, 0, \frac{14}{867}\sqrt{455}e^{12}, \frac{35}{867}\sqrt{42}e^{13} + \frac{28}{867}\sqrt{259}e^{45}, \frac{14}{867}\sqrt{210}e^{16},$ $\frac{7}{867}\sqrt{1918}e^{18} + \frac{14}{289}\sqrt{21}e^{34}$	$(-\frac{49}{289}, \frac{322}{867}, \frac{42}{289}, -\frac{245}{867}, \frac{224}{867}, \frac{175}{867}, -\frac{7}{289}, \frac{28}{867}, -\frac{7}{51})$ $+ \frac{7}{867}\sqrt{4858}e^2 \otimes e_7 + \frac{7}{867}\sqrt{5810}e^5 \otimes e_9$	{23689, 57}
9421:14	$0, 0, 0, 0, 0, \frac{12}{2957}\sqrt{3927}e^{12}, \frac{6}{2957}\sqrt{113883}e^{13} + \frac{12}{2957}\sqrt{33082}e^{45},$ $\frac{12}{2957}\sqrt{14518}e^{16}, \frac{12}{2957}\sqrt{31773}e^{18} + \frac{102}{2957}\sqrt{238}e^{34}$	$(-\frac{224}{2957}, \frac{375}{2957}, \frac{886}{2957}, -\frac{1183}{2957}, \frac{1845}{2957}, \frac{151}{2957}, \frac{662}{2957}, -\frac{73}{2957}, -\frac{297}{2957})$ $+ \frac{210}{2957}\sqrt{238}e^5 \otimes e_9$	{23689, 246789, 345, 57}
9421:14	$0, 0, 0, 0, 0, \frac{8}{1409}\sqrt{7194}e^{12}, \frac{4}{1409}\sqrt{44363}e^{13} + \frac{3}{1409}\sqrt{11990}e^{45},$ $\frac{1}{1409}\sqrt{889658}e^{16}, \frac{12}{1409}\sqrt{8393}e^{18} + \frac{3}{1409}\sqrt{55154}e^{34}$	$(\frac{430}{1409}, -\frac{769}{1409}, \frac{135}{1409}, \frac{386}{1409}, \frac{179}{1409}, -\frac{339}{1409}, \frac{565}{1409}, \frac{91}{1409}, \frac{521}{1409})$ $+ \frac{1}{1409}\sqrt{2841630}e^1 \otimes e_2$	{138, 1478, 2357, 245}
9421:14	$0, 0, 0, 0, 0, \frac{30}{367}\sqrt{10}e^{12}, \frac{90}{367}\sqrt{2}e^{13} + \frac{15}{367}\sqrt{10}e^{45}, \frac{15}{367}\sqrt{138}e^{16},$ $\frac{30}{367}\sqrt{34}e^{18} + \frac{15}{367}\sqrt{46}e^{34}$	$(\frac{90}{367}, -\frac{135}{367}, -\frac{15}{367}, \frac{150}{367}, -\frac{75}{367}, -\frac{45}{367}, \frac{75}{367}, \frac{45}{367}, \frac{135}{367})$ $+ \frac{15}{367}\sqrt{398}e^1 \otimes e_2 + \frac{30}{367}\sqrt{62}e^4 \otimes e_5$	{1348, 25}
9421:14	$0, 0, 0, 0, 0, \frac{12}{2957}\sqrt{33082}e^{12}, \frac{6}{2957}\sqrt{113883}e^{13} + \frac{12}{2957}\sqrt{3927}e^{45},$ $\frac{12}{2957}\sqrt{14518}e^{16}, \frac{102}{2957}\sqrt{238}e^{18} + \frac{12}{2957}\sqrt{31773}e^{34}$	$(-\frac{714}{2957}, \frac{1845}{2957}, \frac{396}{2957}, -\frac{693}{2957}, \frac{375}{2957}, \frac{1131}{2957}, -\frac{318}{2957}, \frac{417}{2957}, -\frac{297}{2957})$ $+ \frac{210}{2957}\sqrt{238}e^2 \otimes e_9$	{123478, 128, 135679, 14569}
9421:14	$0, 0, 0, 0, 0, \frac{1}{351}\sqrt{37497}e^{12}, \frac{1}{351}\sqrt{33187}e^{13} + \frac{2}{351}\sqrt{3017}e^{45},$ $\frac{2}{351}\sqrt{7327}e^{16}, \frac{1}{351}\sqrt{24567}e^{18} + \frac{4}{117}\sqrt{862}e^{34}$	$(\frac{53}{351}, \frac{20}{351}, -\frac{14}{117}, \frac{17}{27}, -\frac{70}{351}, \frac{73}{351}, \frac{11}{351}, \frac{14}{39}, \frac{179}{351})$ $+ \frac{5}{351}\sqrt{9913}e^4 \otimes e_5$	{12489, 156, 23468, 359}
9421:15	$0, 0, 0, 0, 0, \frac{72}{8269}\sqrt{35}e^{12}, \frac{72}{8269}\sqrt{69}e^{13} + \frac{9}{8269}\sqrt{2958}e^{45},$ $\frac{9}{8269}\sqrt{3794}e^{26}, \frac{9}{8269}\sqrt{5402}e^{28} + \frac{54}{8269}\sqrt{53}e^{34}$	$(\frac{198}{8269}, -\frac{27}{8269}, -\frac{306}{8269}, \frac{423}{8269}, -\frac{531}{8269}, \frac{171}{8269}, -\frac{108}{8269}, \frac{144}{8269}, \frac{117}{8269})$ $+ \frac{18}{8269}\sqrt{1289}e^1 \otimes e_9 + \frac{27}{8269}\sqrt{1054}e^2 \otimes e_7$	{1238, 269}
9421:15	$0, 0, 0, 0, 0, \frac{18}{4073}\sqrt{265}e^{12}, \frac{18}{4073}\sqrt{619}e^{13} + \frac{36}{4073}\sqrt{337}e^{45},$ $\frac{144}{4073}\sqrt{15}e^{26}, \frac{18}{4073}\sqrt{1466}e^{28} + \frac{18}{4073}\sqrt{590}e^{34}$	$(-\frac{414}{4073}, \frac{189}{4073}, \frac{441}{4073}, -\frac{288}{4073}, \frac{315}{4073}, -\frac{225}{4073}, \frac{27}{4073}, -\frac{36}{4073}, \frac{153}{4073})$ $+ \frac{18}{4073}\sqrt{1193}e^5 \otimes e_9 + \frac{18}{4073}\sqrt{2410}e^2 \otimes e_7$	{269, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:15	$0, 0, 0, 0, 0, \frac{6}{67}\sqrt{39}e^{12}, \frac{18}{67}\sqrt{5}e^{13} + \frac{18}{67}\sqrt{2}e^{45}, \frac{12}{67}\sqrt{3}e^{26},$ $\frac{6}{67}\sqrt{39}e^{28} + \frac{18}{67}\sqrt{5}e^{34}$	$(\frac{39}{67}, -\frac{18}{67}, -\frac{18}{67}, \frac{3}{67}, \frac{18}{67}, \frac{21}{67}, \frac{21}{67}, \frac{3}{67}, -\frac{15}{67})$ $+ \frac{6}{67}\sqrt{165}e^1 \otimes e_9$	{12348, 1278, 23679, 2469}
9421:15	$0, 0, 0, 0, 0, \frac{126}{9421}\sqrt{794}e^{12}, \frac{63}{9421}\sqrt{1446}e^{13} + \frac{126}{9421}\sqrt{462}e^{45},$ $\frac{126}{9421}\sqrt{170}e^{26}, \frac{63}{9421}\sqrt{830}e^{28} + \frac{189}{9421}\sqrt{682}e^{34}$	$(\frac{3591}{9421}, -\frac{1323}{9421}, -\frac{2772}{9421}, \frac{2394}{9421}, -\frac{1575}{9421}, \frac{2268}{9421}, \frac{819}{9421}, \frac{945}{9421}, -\frac{378}{9421})$ $+ \frac{126}{9421}\sqrt{2441}e^1 \otimes e_9 + \frac{189}{9421}\sqrt{782}e^4 \otimes e_5$	{12348, 2469}
9421:15	$0, 0, 0, 0, 0, \frac{8}{1749}\sqrt{2514}e^{12}, \frac{1}{1749}\sqrt{409782}e^{13} + \frac{1}{583}\sqrt{54470}e^{45},$ $\frac{1}{1749}\sqrt{488554}e^{26}, \frac{2}{583}\sqrt{15922}e^{28} + \frac{1}{583}\sqrt{46090}e^{34}$	$(-\frac{136}{583}, \frac{290}{1749}, \frac{93}{583}, \frac{61}{583}, -\frac{104}{583}, -\frac{118}{1749}, -\frac{43}{583}, \frac{172}{1749}, \frac{14}{53})$ $+ \frac{2}{583}\sqrt{34358}e^2 \otimes e_7$	{1238, 156789, 269, 357}
9421:15	$0, 0, 0, 0, 0, \frac{2}{3369}\sqrt{7465}e^{12}, \frac{14}{3369}\sqrt{10451}e^{13} + \frac{4}{1123}\sqrt{43297}e^{45},$ $\frac{20}{3369}\sqrt{2986}e^{26}, \frac{8}{3369}\sqrt{86594}e^{28} + \frac{4}{3369}\sqrt{216485}e^{34}$	$(\frac{938}{3369}, -\frac{533}{3369}, \frac{121}{1123}, -\frac{1024}{3369}, \frac{775}{1123}, \frac{135}{1123}, \frac{1301}{3369}, -\frac{128}{3369}, -\frac{661}{3369})$ $+ \frac{2}{3369}\sqrt{4134117}e^5 \otimes e_9$	{2369, 24679, 345, 57}
9421:15	$0, 0, 0, 0, 0, \frac{8}{1581}\sqrt{13517}e^{12}, \frac{1}{1581}\sqrt{722194}e^{13} + \frac{5}{1581}\sqrt{11586}e^{45},$ $\frac{1}{1581}\sqrt{351442}e^{26}, \frac{2}{1581}\sqrt{204686}e^{28} + \frac{1}{1581}\sqrt{2645470}e^{34}$	$(\frac{236}{1581}, \frac{10}{93}, -\frac{75}{527}, \frac{971}{1581}, -\frac{320}{527}, \frac{406}{1581}, \frac{11}{1581}, \frac{192}{527}, \frac{746}{1581})$ $+ \frac{2}{1581}\sqrt{1262874}e^4 \otimes e_5$	{12489, 1568, 2346, 359}
9421:15	$0, 0, 0, 0, 0, \frac{124}{4039}\sqrt{55}e^{12}, \frac{31}{4039}\sqrt{2398}e^{13} + \frac{31}{4039}\sqrt{2838}e^{45},$ $\frac{31}{4039}\sqrt{2794}e^{26}, \frac{124}{4039}\sqrt{209}e^{28} + \frac{31}{4039}\sqrt{2530}e^{34}$	$(-\frac{992}{4039}, \frac{682}{4039}, \frac{713}{4039}, \frac{341}{4039}, -\frac{620}{4039}, -\frac{310}{4039}, \frac{279}{4039}, \frac{372}{4039}, \frac{1054}{4039})$ $+ \frac{124}{4039}\sqrt{19}e^4 \otimes e_5 + \frac{124}{4039}\sqrt{443}e^2 \otimes e_7$	{1238, 269}
9421:16	$0, 0, 0, 0, 0, \frac{19}{1397}\sqrt{435}e^{12}, \frac{19}{1397}\sqrt{258}e^{13}, \frac{19}{1397}\sqrt{354}e^{16},$ $\frac{19}{1397}\sqrt{349}e^{18} + \frac{19}{1397}\sqrt{231}e^{23}$	$(-\frac{38}{1397}, \frac{19}{127}, -\frac{114}{1397}, -\frac{399}{1397}, \frac{456}{1397}, \frac{171}{1397}, -\frac{152}{1397}, \frac{133}{1397}, \frac{95}{1397})$ $+ \frac{19}{1397}\sqrt{1059}e^1 \otimes e_4 + \frac{19}{1397}\sqrt{651}e^5 \otimes e_9 + \frac{19}{1397}\sqrt{823}e^2 \otimes e_7$	{12358, 24689}
9421:16	$0, 0, 0, 0, 0, \frac{1}{980}\sqrt{101923}e^{12}, \frac{1}{980}\sqrt{354710}e^{13}, \frac{3}{490}\sqrt{2694}e^{16},$ $\frac{1}{980}\sqrt{101923}e^{18} + \frac{1}{490}\sqrt{29185}e^{23}$	$(\frac{11}{980}, \frac{109}{1960}, \frac{33}{980}, \frac{493}{980}, -\frac{104}{245}, \frac{131}{1960}, \frac{11}{245}, \frac{153}{1960}, \frac{5}{56})$ $+ \frac{1}{490}\sqrt{94739}e^4 \otimes e_7 + \frac{1}{980}\sqrt{437326}e^3 \otimes e_5$	{1256789, 157, 2378, 3679}
9421:16	$0, 0, 0, 0, 0, \frac{20}{161}\sqrt{2}e^{12}, \frac{2}{161}\sqrt{1265}e^{13}, \frac{16}{161}\sqrt{5}e^{16},$ $\frac{2}{161}\sqrt{755}e^{18} + \frac{2}{161}\sqrt{1105}e^{23}$	$(-\frac{17}{805}, \frac{26}{115}, -\frac{51}{805}, -\frac{43}{115}, \frac{61}{805}, \frac{33}{161}, -\frac{68}{805}, \frac{148}{805}, \frac{131}{805})$ $+ \frac{2}{161}\sqrt{1810}e^3 \otimes e_4 + \frac{2}{161}\sqrt{1910}e^2 \otimes e_7$	{123, 1235, 24569, 2469}
9421:16	$0, 0, 0, 0, 0, \frac{50}{987}\sqrt{95}e^{12}, \frac{50}{2961}\sqrt{7}e^{13}, \frac{50}{2961}\sqrt{622}e^{16},$ $\frac{200}{2961}\sqrt{19}e^{18} + \frac{50}{987}\sqrt{11}e^{23}$	$(\frac{85}{2961}, \frac{55}{329}, \frac{85}{987}, -\frac{1165}{2961}, -\frac{755}{2961}, \frac{580}{2961}, \frac{340}{2961}, \frac{95}{423}, \frac{250}{987})$ $+ \frac{100}{987}\sqrt{42}e^1 \otimes e_4 + \frac{50}{2961}\sqrt{1102}e^2 \otimes e_5$	{12378, 135679, 246789, 457}
9421:16	$0, 0, 0, 0, 0, \frac{16}{2969}\sqrt{2355}e^{12}, \frac{10}{2969}\sqrt{5181}e^{13}, \frac{6}{2969}\sqrt{4710}e^{16},$ $\frac{2}{2969}\sqrt{107545}e^{18} + \frac{10}{2969}\sqrt{25905}e^{23}$	$(-\frac{221}{2969}, \frac{686}{2969}, -\frac{663}{2969}, \frac{1593}{2969}, \frac{327}{2969}, \frac{465}{2969}, -\frac{884}{2969}, \frac{244}{2969}, \frac{23}{2969})$ $+ \frac{2}{2969}\sqrt{993810}e^4 \otimes e_9 + \frac{8}{2969}\sqrt{67510}e^2 \otimes e_7$	{123458, 12348, 25689, 2689}
9421:16	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{23433}e^{12}, \frac{1}{304}\sqrt{64842}e^{13}, \frac{3}{152}\sqrt{321}e^{16},$ $\frac{1}{304}\sqrt{23433}e^{18} + \frac{1}{152}\sqrt{14766}e^{23}$	$(\frac{37}{304}, -\frac{17}{608}, \frac{111}{304}, -\frac{105}{152}, \frac{47}{304}, \frac{3}{76}, \frac{37}{608}, \frac{131}{608}, \frac{205}{608})$ $+ \frac{1}{304}\sqrt{164994}e^3 \otimes e_4$	{12456789, 1246789, 1457, 147, 23578, 2378, 35679, 3679}
9421:16	$0, 0, 0, 0, 0, \frac{12}{3137}\sqrt{12254}e^{12}, \frac{2}{3137}\sqrt{319161}e^{13}, \frac{2}{3137}\sqrt{243966}e^{16},$ $\frac{2}{3137}\sqrt{93019}e^{18} + \frac{2}{3137}\sqrt{11697}e^{23}$	$(-\frac{83}{3137}, \frac{782}{3137}, -\frac{249}{3137}, -\frac{1197}{3137}, \frac{345}{3137}, \frac{699}{3137}, -\frac{332}{3137}, \frac{616}{3137}, \frac{533}{3137})$ $+ \frac{2}{3137}\sqrt{858894}e^1 \otimes e_4 + \frac{50}{3137}\sqrt{114}e^2 \otimes e_7$	{12358, 1238, 245689, 24689}
9421:16	$0, 0, 0, 0, 0, \frac{1}{299}\sqrt{11370}e^{12}, \frac{1}{299}\sqrt{93234}e^{13}, \frac{5}{299}\sqrt{758}e^{16},$ $\frac{1}{299}\sqrt{11370}e^{18} + \frac{1}{299}\sqrt{11370}e^{23}$	$(-\frac{20}{299}, \frac{6}{23}, -\frac{60}{299}, 1, \frac{48}{299}, \frac{58}{299}, -\frac{80}{299}, \frac{38}{299}, \frac{18}{299})$ $+ \frac{1}{299}\sqrt{190258}e^4 \otimes e_7$	{12345689, 1234689, 134, 1345, 2458, 248, 4569, 469}
9421:16	$0, 0, 0, 0, 0, \frac{4}{1167}\sqrt{8033}e^{12}, \frac{2}{1167}\sqrt{55123}e^{13}, \frac{2}{1167}\sqrt{29362}e^{16},$ $\frac{4}{1167}\sqrt{8033}e^{18} + \frac{2}{389}\sqrt{11634}e^{23}$	$(-\frac{20}{1167}, \frac{149}{1167}, -\frac{20}{389}, \frac{643}{1167}, -\frac{135}{389}, \frac{43}{389}, -\frac{80}{1167}, \frac{109}{1167}, \frac{89}{1167})$ $+ \frac{4}{1167}\sqrt{36287}e^2 \otimes e_5 + \frac{4}{1167}\sqrt{36287}e^4 \otimes e_9$	{123478, 135679, 26789, 457}
9421:16	$0, 0, 0, 0, 0, \frac{14}{929}\sqrt{903}e^{12}, \frac{4}{929}\sqrt{11739}e^{13}, \frac{6}{929}\sqrt{602}e^{16},$ $\frac{4}{929}\sqrt{8729}e^{18} + \frac{14}{929}\sqrt{903}e^{23}$	$(-\frac{67}{929}, \frac{334}{929}, -\frac{201}{929}, \frac{403}{929}, -\frac{199}{929}, \frac{267}{929}, -\frac{268}{929}, \frac{200}{929}, \frac{133}{929})$ $+ \frac{2}{929}\sqrt{158326}e^2 \otimes e_7 + \frac{602}{929}e^4 \otimes e_5$	{1234, 1235, 2469, 2569}
9421:16	$0, 0, 0, 0, 0, \frac{7}{314}\sqrt{903}e^{12}, \frac{1}{157}\sqrt{11739}e^{13}, \frac{3}{314}\sqrt{602}e^{16},$ $\frac{1}{157}\sqrt{8729}e^{18} + \frac{7}{314}\sqrt{903}e^{23}$	$(-\frac{67}{628}, \frac{167}{314}, -\frac{201}{628}, \frac{51}{314}, \frac{51}{314}, \frac{267}{628}, -\frac{67}{157}, \frac{50}{157}, \frac{133}{628})$ $+ \frac{1}{314}\sqrt{158326}e^2 \otimes e_7$	{123, 1234, 12345, 24569, 2469, 269}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:16	$0, 0, 0, 0, 0, \frac{80}{3329}\sqrt{231}e^{12}, \frac{10}{3329}\sqrt{9933}e^{13}, \frac{30}{3329}\sqrt{22}e^{16},$ $\frac{10}{3329}\sqrt{10065}e^{18} + \frac{10}{3329}\sqrt{34881}e^{23}$	$(\frac{155}{3329}, -\frac{290}{3329}, \frac{465}{3329}, \frac{1825}{3329}, -\frac{1185}{3329}, -\frac{135}{3329}, \frac{620}{3329}, \frac{20}{3329}, \frac{175}{3329})$ $+\frac{30}{3329}\sqrt{5522}e^4 \otimes e_9 + \frac{40}{3329}\sqrt{3102}e^3 \otimes e_5$	{125679, 14578, 2347, 36789}
9421:16	$0, 0, 0, 0, 0, \frac{5}{78}\sqrt{30}e^{12}, \frac{5}{78}\sqrt{5}e^{13}, \frac{25}{78}\sqrt{2}e^{16},$ $\frac{5}{78}\sqrt{30}e^{18} + \frac{5}{78}\sqrt{30}e^{23}$	$(\frac{2}{39}, \frac{19}{156}, \frac{2}{13}, 1, -\frac{47}{78}, \frac{9}{52}, \frac{8}{39}, \frac{35}{156}, \frac{43}{156})$ $+\frac{125}{78}e^4 \otimes e_5$	{12348, 12358, 13469, 13569, 24689, 25689, 4, 5}
9421:16	$0, 0, 0, 0, 0, \frac{10}{3329}\sqrt{10065}e^{12}, \frac{10}{3329}\sqrt{9933}e^{13}, \frac{30}{3329}\sqrt{22}e^{16},$ $\frac{10}{3329}\sqrt{231}e^{18} + \frac{10}{3329}\sqrt{34881}e^{23}$	$(\frac{155}{3329}, \frac{463}{3329}, \frac{465}{3329}, -\frac{1187}{3329}, -\frac{1185}{3329}, \frac{618}{3329}, \frac{620}{3329}, \frac{773}{3329}, \frac{928}{3329})$ $+\frac{30}{3329}\sqrt{5522}e^2 \otimes e_4 + \frac{40}{3329}\sqrt{3102}e^3 \otimes e_5$	{125789, 14567, 23678, 3479}
9421:16	$0, 0, 0, 0, 0, \frac{200}{2961}\sqrt{19}e^{12}, \frac{50}{2961}\sqrt{7}e^{13}, \frac{50}{2961}\sqrt{622}e^{16},$ $\frac{50}{987}\sqrt{95}e^{18} + \frac{50}{987}\sqrt{11}e^{23}$	$(\frac{85}{2961}, -\frac{8}{423}, \frac{85}{987}, \frac{23}{47}, -\frac{1165}{2961}, \frac{29}{2961}, \frac{340}{2961}, \frac{38}{987}, \frac{199}{2961})$ $+\frac{100}{987}\sqrt{42}e^1 \otimes e_5 + \frac{50}{2961}\sqrt{1102}e^4 \otimes e_9$	{123478, 13679, 256789, 457}
9421:16	$0, 0, 0, 0, 0, \frac{1}{704}\sqrt{103305}e^{12}, \frac{1}{704}\sqrt{66930}e^{13}, \frac{1}{704}\sqrt{2910}e^{16},$ $\frac{1}{352}\sqrt{16490}e^{18} + \frac{1}{704}\sqrt{103305}e^{23}$	$(-\frac{65}{1408}, \frac{107}{352}, -\frac{195}{1408}, \frac{355}{704}, -\frac{271}{704}, \frac{33}{128}, -\frac{65}{704}, \frac{149}{352}, \frac{233}{1408})$ $+\frac{1}{704}\sqrt{268690}e^4 \otimes e_7 + \frac{1}{704}\sqrt{338530}e^2 \otimes e_5$	{12789, 1567, 23678, 3579}
9421:16	$0, 0, 0, 0, 0, \frac{8}{315}\sqrt{326}e^{12}, \frac{2}{45}\sqrt{163}e^{13}, \frac{2}{315}\sqrt{5542}e^{16},$ $\frac{8}{105}\sqrt{1793}e^{18} + \frac{2}{105}\sqrt{1793}e^{23}$	$(\frac{1}{315}, -\frac{2}{45}, \frac{1}{105}, 1, \frac{53}{315}, -\frac{13}{315}, \frac{4}{315}, -\frac{4}{105}, -\frac{11}{315})$ $+\frac{2}{315}\sqrt{42706}e^4 \otimes e_9$	{12569, 1269, 1458, 148, 234, 2345, 35689, 3689}
9421:16	$0, 0, 0, 0, 0, \frac{285}{812}e^{12}, \frac{19}{812}\sqrt{390}e^{13}, \frac{19}{812}\sqrt{226}e^{16},$ $\frac{285}{812}e^{18} + \frac{19}{812}\sqrt{222}e^{23}$	$(\frac{1}{812}, \frac{171}{1624}, \frac{3}{812}, \frac{365}{812}, -\frac{90}{203}, \frac{173}{1624}, \frac{1}{203}, \frac{25}{232}, \frac{177}{1624})$ $+\frac{19}{406}\sqrt{139}e^4 \otimes e_7 + \frac{19}{812}\sqrt{894}e^1 \otimes e_5$	{1278, 1679, 2356789, 357}
9421:16	$0, 0, 0, 0, 0, \frac{2}{105}\sqrt{1793}e^{12}, \frac{2}{45}\sqrt{163}e^{13}, \frac{2}{315}\sqrt{5542}e^{16},$ $\frac{2}{815}\sqrt{326}e^{18} + \frac{2}{105}\sqrt{1793}e^{23}$	$(\frac{1}{315}, \frac{13}{35}, \frac{1}{105}, -\frac{209}{315}, \frac{53}{315}, \frac{118}{315}, \frac{4}{315}, \frac{17}{45}, \frac{8}{21})$ $+\frac{2}{315}\sqrt{42706}e^2 \otimes e_4$	{12589, 1289, 1456, 146, 23568, 2368, 3459, 349}
9421:16	$0, 0, 0, 0, 0, \frac{2}{633}\sqrt{10010}e^{12}, \frac{14}{633}\sqrt{418}e^{13}, \frac{14}{633}\sqrt{286}e^{16},$ $\frac{2}{633}\sqrt{10010}e^{18} + \frac{2}{633}\sqrt{2002}e^{23}$	$(\frac{52}{633}, -\frac{211}{211}, \frac{52}{211}, -\frac{256}{633}, -\frac{152}{633}, \frac{49}{633}, \frac{208}{633}, \frac{101}{633}, \frac{51}{211})$ $+\frac{2}{633}\sqrt{34958}e^3 \otimes e_5 + \frac{2}{633}\sqrt{50974}e^1 \otimes e_4$	{1238, 1369, 245689, 45}
9421:16	$0, 0, 0, 0, 0, \frac{1}{352}\sqrt{16490}e^{12}, \frac{1}{704}\sqrt{66930}e^{13}, \frac{1}{704}\sqrt{2910}e^{16},$ $\frac{1}{704}\sqrt{103305}e^{18} + \frac{1}{704}\sqrt{103305}e^{23}$	$(-\frac{65}{1408}, \frac{79}{1408}, -\frac{195}{1408}, \frac{355}{704}, \frac{427}{704}, \frac{7}{704}, -\frac{65}{352}, -\frac{51}{1408}, -\frac{29}{352})$ $+\frac{1}{704}\sqrt{268690}e^4 \otimes e_7 + \frac{1}{704}\sqrt{338530}e^5 \otimes e_9$	{12679, 1578, 2357, 36789}
9421:16	$0, 0, 0, 0, 0, \frac{3}{328}\sqrt{4579}e^{12}, \frac{1}{328}\sqrt{17834}e^{13}, \frac{1}{328}\sqrt{46754}e^{16},$ $\frac{3}{328}\sqrt{4579}e^{18} + \frac{1}{328}\sqrt{24582}e^{23}$	$(\frac{23}{328}, \frac{1}{16}, \frac{69}{328}, -\frac{109}{164}, \frac{55}{328}, \frac{87}{656}, \frac{23}{82}, \frac{133}{656}, \frac{179}{656})$ $+\frac{1}{328}\sqrt{131586}e^1 \otimes e_4$	{12578, 1278, 15679, 1679, 23456789, 2346789, 3457, 347}
9421:17	$0, 0, 0, 0, 0, \frac{6}{481}\sqrt{266}e^{12}, \frac{12}{481}\sqrt{323}e^{13}, \frac{3}{481}\sqrt{1178}e^{16},$ $\frac{6}{481}\sqrt{969}e^{18} + \frac{3}{481}\sqrt{7030}e^{24}$	$(\frac{12}{481}, \frac{90}{481}, -\frac{93}{481}, \frac{36}{481}, -\frac{135}{481}, \frac{102}{481}, -\frac{81}{481}, \frac{114}{481}, \frac{126}{481})$ $+\frac{6}{481}\sqrt{1691}e^4 \otimes e_5 + \frac{6}{481}\sqrt{2470}e^2 \otimes e_7$	{1234, 146789, 2569, 3578}
9421:17	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{682}e^{12}, \frac{2}{41}\sqrt{31}e^{13}, \frac{1}{41}\sqrt{806}e^{16},$ $\frac{1}{41}\sqrt{682}e^{18} + \frac{1}{41}\sqrt{310}e^{24}$	$(\frac{4}{41}, \frac{1}{41}, \frac{5}{41}, \frac{12}{41}, -\frac{27}{41}, \frac{5}{41}, \frac{9}{41}, \frac{9}{41}, \frac{13}{41})$ $+\frac{2}{41}\sqrt{527}e^1 \otimes e_5$	{1238, 1278, 1369, 1679, 23456789, 245689, 3457, 45}
9421:17	$0, 0, 0, 0, 0, \frac{3}{980}\sqrt{10707}e^{12}, \frac{1}{980}\sqrt{251490}e^{13}, \frac{1}{490}\sqrt{18426}e^{16},$ $\frac{3}{980}\sqrt{10707}e^{18} + \frac{3}{490}\sqrt{4565}e^{24}$	$(\frac{13}{140}, -\frac{151}{1960}, -\frac{67}{980}, \frac{39}{140}, -\frac{79}{245}, \frac{31}{1960}, \frac{6}{245}, \frac{213}{1960}, \frac{79}{392})$ $+\frac{1}{490}\sqrt{67479}e^4 \otimes e_7 + \frac{1}{980}\sqrt{187746}e^3 \otimes e_5$	{1256789, 157, 2458, 4569}
9421:17	$0, 0, 0, 0, 0, \frac{1}{1229}\sqrt{1500590}e^{12}, \frac{4}{1229}\sqrt{23205}e^{13}, \frac{1}{1229}\sqrt{343434}e^{16},$ $\frac{1}{1229}\sqrt{71162}e^{18} + \frac{1}{1229}\sqrt{256802}e^{24}$	$(-\frac{240}{1229}, \frac{827}{1229}, \frac{333}{1229}, -\frac{720}{1229}, \frac{213}{1229}, \frac{587}{1229}, \frac{93}{1229}, \frac{347}{1229}, \frac{107}{1229})$ $+\frac{4}{1229}\sqrt{196469}e^2 \otimes e_4$	{134567, 13467, 1456, 146, 23568, 2368, 25678, 2678}
9421:17	$0, 0, 0, 0, 0, \frac{2}{1265}\sqrt{108309}e^{12}, \frac{2}{1265}\sqrt{15081}e^{13}, \frac{9}{1265}\sqrt{2742}e^{16},$ $\frac{2}{1265}\sqrt{249522}e^{18} + \frac{1}{1265}\sqrt{967926}e^{24}$	$(-\frac{4}{115}, \frac{26}{1265}, \frac{243}{1265}, -\frac{12}{115}, 1, -\frac{18}{1265}, \frac{199}{1265}, -\frac{62}{1265}, -\frac{106}{1265})$ $+\frac{6}{1265}\sqrt{79518}e^5 \otimes e_9$	{123679, 1269, 13578, 158, 2345, 2457, 34689, 46789}
9421:17	$0, 0, 0, 0, 0, \frac{8}{1249}\sqrt{9710}e^{12}, \frac{18}{1249}\sqrt{2913}e^{13}, \frac{3}{1249}\sqrt{21362}e^{16},$ $\frac{8}{1249}\sqrt{101955}e^{18} + \frac{1}{1249}\sqrt{879726}e^{24}$	$(-\frac{88}{1249}, \frac{56}{1249}, \frac{763}{1249}, -\frac{264}{1249}, \frac{189}{1249}, -\frac{32}{1249}, \frac{675}{1249}, -\frac{120}{1249}, -\frac{208}{1249})$ $+\frac{2}{1249}\sqrt{514630}e^3 \otimes e_9$	{1234568, 123468, 14579, 1479, 2589, 289, 3567, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:17	$0, 0, 0, 0, 0, \frac{10}{1367} \sqrt{4029}e^{12}, \frac{1}{1367} \sqrt{297830}e^{13}, \frac{2}{1367} \sqrt{88085}e^{16},$ $\frac{1}{1367} \sqrt{242530}e^{18} + \frac{1}{1367} \sqrt{73470}e^{24}$	$(\frac{75}{1367}, \frac{121}{1367}, -\frac{320}{1367}, \frac{225}{1367}, -\frac{274}{1367}, \frac{196}{1367}, -\frac{245}{1367}, \frac{271}{1367}, \frac{346}{1367})$ $+ \frac{1}{1367} \sqrt{654910}e^1 \otimes e_3 + \frac{2}{1367} \sqrt{80185}e^2 \otimes e_5$	{128, 1569, 234689, 345}
9421:17	$0, 0, 0, 0, 0, \frac{1}{304} \sqrt{21489}e^{12}, \frac{1}{304} \sqrt{97266}e^{13}, \frac{13}{152} \sqrt{29}e^{16},$ $\frac{1}{304} \sqrt{21489}e^{18} + \frac{3}{152} \sqrt{754}e^{24}$	$(\frac{5}{304}, \frac{87}{608}, -\frac{39}{304}, \frac{15}{304}, 1, \frac{97}{608}, -\frac{73}{304}, \frac{107}{608}, \frac{117}{608})$ $+ \frac{1}{304} \sqrt{190762}e^5 \otimes e_7$	{1235689, 126789, 135, 17, 23478, 2458, 34679, 4569}
9421:17	$0, 0, 0, 0, 0, \frac{4}{2245} \sqrt{18278}e^{12}, \frac{4}{2245} \sqrt{90687}e^{13}, \frac{18}{2245} \sqrt{703}e^{16},$ $\frac{2}{2245} \sqrt{162393}e^{18} + \frac{2}{2245} \sqrt{343767}e^{24}$	$(-\frac{289}{2245}, \frac{539}{2245}, \frac{1078}{2245}, -\frac{867}{2245}, \frac{273}{2245}, \frac{50}{2245}, \frac{789}{2245}, -\frac{39}{2245}, -\frac{328}{2245})$ $+ \frac{2}{2245} \sqrt{457653}e^2 \otimes e_4 + \frac{2}{2245} \sqrt{928663}e^3 \otimes e_9$	{14579, 1479, 2589, 289}
9421:17	$0, 0, 0, 0, 0, \frac{9}{1223} \sqrt{3462}e^{12}, \frac{9}{1223} \sqrt{2874}e^{13}, \frac{18}{1223} \sqrt{705}e^{16},$ $\frac{54}{1223} \sqrt{62}e^{18} + \frac{9}{1223} \sqrt{1698}e^{24}$	$(-\frac{9}{1223}, \frac{216}{1223}, -\frac{252}{1223}, -\frac{27}{1223}, -\frac{18}{1223}, \frac{207}{1223}, -\frac{261}{1223}, \frac{198}{1223}, \frac{189}{1223})$ $+ \frac{18}{1223} \sqrt{177}e^5 \otimes e_7 + \frac{18}{1223} \sqrt{615}e^2 \otimes e_4 + \frac{27}{1223} \sqrt{554}e^1 \otimes e_3$	{128, 34}
9421:17	$0, 0, 0, 0, 0, \frac{2}{1249} \sqrt{101955}e^{12}, \frac{18}{1249} \sqrt{2913}e^{13}, \frac{3}{1249} \sqrt{21362}e^{16},$ $\frac{8}{1249} \sqrt{9710}e^{18} + \frac{1}{1249} \sqrt{879726}e^{24}$	$(-\frac{88}{1249}, \frac{586}{1249}, -\frac{297}{1249}, -\frac{264}{1249}, \frac{189}{1249}, \frac{498}{1249}, -\frac{385}{1249}, \frac{410}{1249}, \frac{322}{1249})$ $+ \frac{2}{1249} \sqrt{514630}e^2 \otimes e_7$	{1234, 12345, 1456789, 146789, 2569, 269, 3578, 378}
9421:17	$0, 0, 0, 0, 0, \frac{4}{3009} \sqrt{86018}e^{12}, \frac{20}{3009} \sqrt{2098}e^{13}, \frac{2}{3009} \sqrt{194065}e^{16},$ $\frac{2}{3009} \sqrt{463658}e^{18} + \frac{2}{1003} \sqrt{39862}e^{24}$	$(-\frac{400}{3009}, \frac{898}{3009}, \frac{185}{1003}, \frac{400}{1003}, \frac{1796}{3009}, \frac{166}{3009}, \frac{155}{3009}, \frac{98}{3009}, -\frac{302}{3009})$ $+ \frac{2}{3009} \sqrt{1272437}e^2 \otimes e_4 + \frac{2}{3009} \sqrt{1511609}e^5 \otimes e_9$	{134679, 1469, 23689, 26789}
9421:17	$0, 0, 0, 0, 0, \frac{28}{3825} \sqrt{2730}e^{12}, \frac{28}{3825} \sqrt{5330}e^{13}, \frac{182}{3825} \sqrt{34}e^{16},$ $\frac{14}{3825} \sqrt{2431}e^{18} + \frac{14}{3825} \sqrt{13091}e^{24}$	$(-\frac{77}{1275}, \frac{49}{1275}, \frac{728}{3825}, -\frac{77}{425}, \frac{1771}{3825}, -\frac{28}{1275}, \frac{497}{3825}, -\frac{7}{85}, -\frac{182}{1275})$ $+ \frac{14}{3825} \sqrt{18941}e^5 \otimes e_7 + \frac{182}{3825} \sqrt{158}e^3 \otimes e_9$	{1234568, 1479, 2589, 367}
9421:17	$0, 0, 0, 0, 0, \frac{6}{1483} \sqrt{1995}e^{12}, \frac{10}{1483} \sqrt{4389}e^{13}, \frac{19}{1483} \sqrt{210}e^{16},$ $\frac{28}{1483} \sqrt{95}e^{18} + \frac{15}{1483} \sqrt{2926}e^{24}$	$(-\frac{112}{1483}, \frac{382}{1483}, -\frac{171}{1483}, -\frac{336}{1483}, \frac{711}{1483}, \frac{270}{1483}, -\frac{283}{1483}, \frac{158}{1483}, \frac{46}{1483})$ $+ \frac{2}{1483} \sqrt{256690}e^2 \otimes e_7 + \frac{4}{1483} \sqrt{45885}e^5 \otimes e_9$	{12345, 146789, 269, 3578}
9421:17	$0, 0, 0, 0, 0, \frac{10}{69} \sqrt{7}e^{12}, \frac{5}{69} \sqrt{42}e^{13}, \frac{5}{69} \sqrt{10}e^{16},$ $\frac{5}{69} \sqrt{2}e^{18} + \frac{10}{69} \sqrt{14}e^{24}$	$(\frac{5}{69}, -\frac{8}{69}, -\frac{5}{23}, \frac{5}{23}, \frac{32}{69}, -\frac{1}{23}, -\frac{10}{69}, \frac{2}{69}, \frac{7}{69})$ $+ \frac{10}{69} \sqrt{13}e^5 \otimes e_9 + \frac{5}{69} \sqrt{74}e^4 \otimes e_7$	{126789, 157, 2458, 469}
9421:17	$0, 0, 0, 0, 0, \frac{6}{481} \sqrt{969}e^{12}, \frac{12}{481} \sqrt{323}e^{13}, \frac{3}{481} \sqrt{1178}e^{16},$ $\frac{6}{481} \sqrt{266}e^{18} + \frac{3}{481} \sqrt{7030}e^{24}$	$(\frac{12}{481}, -\frac{40}{481}, \frac{167}{481}, \frac{36}{481}, -\frac{135}{481}, -\frac{28}{481}, \frac{179}{481}, -\frac{16}{481}, -\frac{4}{481})$ $+ \frac{6}{481} \sqrt{1691}e^4 \otimes e_5 + \frac{6}{481} \sqrt{2470}e^3 \otimes e_9$	{123468, 1479, 2589, 3567}
9421:17	$0, 0, 0, 0, 0, \frac{31}{5821} \sqrt{3694}e^{12}, \frac{341}{5821} \sqrt{26}e^{13}, \frac{62}{5821} \sqrt{842}e^{16},$ $\frac{62}{5821} \sqrt{807}e^{18} + \frac{31}{5821} \sqrt{1398}e^{24}$	$(-\frac{93}{5821}, \frac{682}{5821}, -\frac{1054}{5821}, -\frac{279}{5821}, \frac{1364}{5821}, \frac{589}{5821}, -\frac{1147}{5821}, \frac{496}{5821}, \frac{403}{5821})$ $+ \frac{186}{5821} \sqrt{78}e^2 \otimes e_4 + \frac{31}{5821} \sqrt{6106}e^1 \otimes e_3 + \frac{62}{5821} \sqrt{469}e^5 \otimes e_9$	{1258, 345}
9421:17	$0, 0, 0, 0, 0, \frac{6}{3161} \sqrt{60114}e^{12}, \frac{12}{3161} \sqrt{17157}e^{13}, \frac{48}{3161} \sqrt{129}e^{16},$ $\frac{18}{3161} \sqrt{3311}e^{18} + \frac{6}{3161} \sqrt{4515}e^{24}$	$(-\frac{363}{3161}, \frac{1233}{3161}, \frac{1235}{3161}, -\frac{1089}{3161}, -\frac{1087}{3161}, \frac{30}{109}, \frac{8}{29}, \frac{507}{3161}, \frac{144}{3161})$ $+ \frac{6}{3161} \sqrt{179826}e^2 \otimes e_4 + \frac{6}{3161} \sqrt{184083}e^3 \otimes e_5$	{134689, 1456789, 23679, 2569}
9421:17	$0, 0, 0, 0, 0, \frac{6}{3161} \sqrt{60114}e^{12}, \frac{12}{3161} \sqrt{17157}e^{13}, \frac{48}{3161} \sqrt{129}e^{16},$ $\frac{18}{3161} \sqrt{3311}e^{18} + \frac{6}{3161} \sqrt{4515}e^{24}$	$(-\frac{363}{3161}, \frac{1233}{3161}, -\frac{192}{3161}, -\frac{1089}{3161}, \frac{1767}{3161}, \frac{30}{109}, -\frac{555}{3161}, \frac{507}{3161}, \frac{144}{3161})$ $+ \frac{6}{3161} \sqrt{179826}e^2 \otimes e_4 + \frac{6}{3161} \sqrt{184083}e^5 \otimes e_7$	{1345689, 146789, 23679, 2569}
9421:17	$0, 0, 0, 0, 0, \frac{14}{3825} \sqrt{2431}e^{12}, \frac{28}{3825} \sqrt{5330}e^{13}, \frac{182}{3825} \sqrt{34}e^{16},$ $\frac{14}{3825} \sqrt{2730}e^{18} + \frac{14}{3825} \sqrt{13091}e^{24}$	$(-\frac{77}{1275}, \frac{1174}{3825}, \frac{131}{3825}, -\frac{77}{425}, -\frac{127}{425}, \frac{943}{3825}, -\frac{4}{153}, \frac{712}{3825}, \frac{481}{3825})$ $+ \frac{14}{3825} \sqrt{18941}e^3 \otimes e_5 + \frac{182}{3825} \sqrt{158}e^2 \otimes e_7$	{1234, 1456789, 2569, 378}
9421:17	$0, 0, 0, 0, 0, \frac{7}{39} \sqrt{6}e^{12}, \frac{14}{39} \sqrt{2}e^{13}, \frac{7}{39} \sqrt{2}e^{16},$ $\frac{7}{39} \sqrt{6}e^{18} + \frac{7}{39} \sqrt{30}e^{24}$	$(\frac{8}{39}, -\frac{5}{39}, \frac{1}{13}, \frac{8}{13}, -\frac{25}{39}, \frac{11}{13}, \frac{11}{39}, \frac{19}{39})$ $+ \frac{56}{39} e^4 \otimes e_5$	{12346, 12467, 13489, 14789, 23579, 259, 35678, 568}
9421:17	$0, 0, 0, 0, 0, \frac{1}{304} \sqrt{21489}e^{12}, \frac{1}{304} \sqrt{97266}e^{13}, \frac{13}{152} \sqrt{29}e^{16},$ $\frac{1}{304} \sqrt{21489}e^{18} + \frac{3}{152} \sqrt{754}e^{24}$	$(\frac{5}{304}, \frac{87}{608}, \frac{175}{304}, \frac{15}{304}, -\frac{101}{152}, \frac{97}{608}, \frac{45}{76}, \frac{107}{608}, \frac{117}{608})$ $+ \frac{1}{304} \sqrt{190762}e^3 \otimes e_5$	{123689, 1256789, 13, 157, 23478, 2458, 34679, 4569}
9421:17	$0, 0, 0, 0, 0, \frac{1}{23} \sqrt{170}e^{12}, \frac{2}{23} \sqrt{102}e^{13}, \frac{1}{23} \sqrt{102}e^{16},$ $\frac{1}{23} \sqrt{170}e^{18} + \frac{1}{23} \sqrt{374}e^{24}$	$(\frac{4}{23}, -\frac{3}{23}, -\frac{9}{23}, \frac{12}{23}, \frac{3}{23}, \frac{1}{23}, -\frac{5}{23}, \frac{5}{23}, \frac{9}{23})$ $+ \frac{2}{23} \sqrt{170}e^4 \otimes e_7$	{1256789, 126789, 157, 17, 2458, 248, 4569, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:17	$0, 0, 0, 0, 0, \frac{1}{124}\sqrt{5133e^{12}}, \frac{1}{124}\sqrt{4366e^{13}}, \frac{5}{62}\sqrt{59e^{16}},$ $\frac{1}{124}\sqrt{5133e^{18}} + \frac{1}{31}\sqrt{177e^{24}}$	$(\frac{13}{124}, -\frac{9}{248}, -\frac{23}{62}, \frac{39}{124}, \frac{13}{62}, \frac{17}{248}, -\frac{33}{124}, \frac{43}{248}, \frac{69}{248})$ $+ \frac{1}{124}\sqrt{1298e^5} \otimes e_7 + \frac{7}{62}\sqrt{59e^1} \otimes e_3$	{1258, 1569, 2345689, 345}
9421:17	$0, 0, 0, 0, 0, \frac{168}{1361}\sqrt{7e^{12}}, \frac{84}{1361}\sqrt{65e^{13}}, \frac{105}{1361}\sqrt{11e^{16}},$ $\frac{126}{1361}\sqrt{3e^{18}} + \frac{42}{1361}\sqrt{157e^{24}}$	$(-\frac{105}{1361}, \frac{126}{1361}, \frac{252}{1361}, -\frac{315}{1361}, \frac{588}{1361}, \frac{21}{1361}, \frac{147}{1361}, -\frac{84}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{1329e^3} \otimes e_9 + \frac{21}{1361}\sqrt{217e^2} \otimes e_4 + \frac{651}{1361}e^5 \otimes e_7$	{1479, 2589}
9421:17	$0, 0, 0, 0, 0, \frac{1}{467}\sqrt{56110e^{12}}, \frac{2}{467}\sqrt{905e^{13}}, \frac{1}{467}\sqrt{37286e^{16}},$ $\frac{1}{467}\sqrt{25702e^{18}} + \frac{1}{467}\sqrt{21358e^{24}}$	$(-\frac{20}{467}, \frac{121}{467}, \frac{59}{467}, -\frac{60}{467}, -\frac{201}{467}, \frac{101}{467}, \frac{39}{467}, \frac{81}{467}, \frac{61}{467})$ $+ \frac{10}{467}\sqrt{905e^1} \otimes e_5 + \frac{4}{467}\sqrt{3801e^2} \otimes e_4$	{12378, 128, 345, 457}
9421:17	$0, 0, 0, 0, 0, \frac{1}{209}\sqrt{11730e^{12}}, \frac{1}{209}\sqrt{4930e^{13}}, \frac{10}{209}\sqrt{102e^{16}},$ $\frac{20}{209}\sqrt{17e^{18}} + \frac{3}{209}\sqrt{170e^{24}}$	$(\frac{1}{19}, \frac{2}{19}, -\frac{74}{209}, \frac{3}{19}, \frac{24}{209}, \frac{3}{19}, -\frac{63}{209}, \frac{4}{19}, \frac{5}{19})$ $+ \frac{1}{209}\sqrt{21590e^1} \otimes e_3 + \frac{2}{209}\sqrt{2465e^2} \otimes e_7$	{1258, 128, 2345689, 234689}
9421:17	$0, 0, 0, 0, 0, \frac{55}{1741}\sqrt{174e^{12}}, \frac{198}{1741}\sqrt{10e^{13}}, \frac{33}{1741}\sqrt{386e^{16}},$ $\frac{33}{1741}\sqrt{302e^{18}} + \frac{11}{1741}\sqrt{2082e^{24}}$	$(-\frac{20}{1741}, \frac{303}{1741}, -\frac{383}{1741}, -\frac{60}{1741}, \frac{137}{1741}, \frac{283}{1741}, -\frac{403}{1741}, \frac{263}{1741}, \frac{243}{1741})$ $+ \frac{22}{1741}\sqrt{1590e^1} \otimes e_3 + \frac{88}{1741}\sqrt{51e^2} \otimes e_4$	{1258, 128, 34, 345}
9421:17	$0, 0, 0, 0, 0, \frac{13}{653}\sqrt{258e^{12}}, \frac{13}{653}\sqrt{174e^{13}}, \frac{130}{653}\sqrt{3e^{16}},$ $\frac{28}{653}\sqrt{79e^{18}} + \frac{13}{653}\sqrt{42e^{24}}$	$(\frac{13}{653}, \frac{26}{653}, -\frac{156}{653}, \frac{39}{653}, \frac{234}{653}, \frac{39}{653}, \frac{143}{653}, \frac{52}{653}, \frac{65}{653})$ $+ \frac{13}{653}\sqrt{606e^1} \otimes e_3 + \frac{26}{653}\sqrt{58e^2} \otimes e_7 + \frac{26}{653}\sqrt{87e^5} \otimes e_9$	{12458, 23689}
9421:17	$0, 0, 0, 0, 0, \frac{2}{1265}\sqrt{249522e^{12}}, \frac{2}{1265}\sqrt{15081e^{13}}, \frac{9}{1265}\sqrt{2742e^{16}},$ $\frac{2}{1265}\sqrt{108309e^{18}} + \frac{1}{1265}\sqrt{967926e^{24}}$	$(-\frac{4}{115}, \frac{548}{1265}, \frac{243}{1265}, -\frac{12}{115}, -\frac{823}{1265}, \frac{504}{1265}, \frac{199}{1265}, \frac{4}{11}, \frac{416}{1265})$ $+ \frac{6}{1265}\sqrt{79518e^2} \otimes e_5$	{123789, 1289, 13567, 156, 23468, 24678, 3459, 4579}
9421:17	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{6e^{12}}, \frac{18}{61}\sqrt{3e^{13}}, \frac{3}{61}\sqrt{30e^{16}},$ $\frac{3}{61}\sqrt{6e^{18}} + \frac{3}{61}\sqrt{66e^{24}}$	$(\frac{8}{61}, -\frac{5}{61}, -\frac{11}{61}, \frac{24}{61}, -\frac{19}{61}, \frac{3}{61}, -\frac{3}{61}, \frac{11}{61}, \frac{19}{61})$ $+ \frac{6}{61}\sqrt{39e^1} \otimes e_5 + \frac{6}{61}\sqrt{42e^4} \otimes e_7$	{12348, 13469, 2356789, 357}
9421:17	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{114e^{12}}, \frac{18}{61}\sqrt{3e^{13}}, \frac{3}{61}\sqrt{138e^{16}},$ $\frac{3}{61}\sqrt{114e^{18}} + \frac{3}{61}\sqrt{42e^{24}}$	$(\frac{8}{61}, -\frac{5}{61}, \frac{19}{61}, \frac{24}{61}, -\frac{3}{61}, \frac{3}{61}, -\frac{11}{61}, \frac{11}{61}, \frac{19}{61})$ $+ \frac{6}{61}\sqrt{15e^4} \otimes e_5 + \frac{6}{61}\sqrt{66e^1} \otimes e_3$	{1258, 1569, 234689, 34}
9421:17	$0, 0, 0, 0, 0, \frac{1}{307}\sqrt{36654e^{12}}, \frac{2}{307}\sqrt{8642e^{13}}, \frac{1}{307}\sqrt{42018e^{16}},$ $\frac{1}{307}\sqrt{36654e^{18}} + \frac{1}{307}\sqrt{20562e^{24}}$	$(\frac{36}{307}, -\frac{15}{307}, -\frac{113}{307}, \frac{108}{307}, \frac{39}{307}, \frac{21}{307}, -\frac{77}{307}, \frac{57}{307}, \frac{93}{307})$ $+ \frac{2}{307}\sqrt{19966e^1} \otimes e_3$	{1258, 128, 1569, 169, 2345689, 234689, 34, 345}
9421:17	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{70e^{12}}, \frac{2}{23}\sqrt{95e^{13}}, \frac{1}{23}\sqrt{290e^{16}},$ $\frac{10}{23}\sqrt{3e^{18}} + \frac{3}{23}\sqrt{30e^{24}}$	$(0, \frac{2}{23}, -\frac{5}{23}, 0, \frac{7}{23}, \frac{2}{23}, -\frac{5}{23}, \frac{2}{23}, \frac{2}{23})$ $+ \frac{10}{23}\sqrt{3e^4} \otimes e_7 + \frac{2}{23}\sqrt{10e^5} \otimes e_9 + \frac{2}{23}\sqrt{115e^1} \otimes e_3$	{1258, 169}
9421:17	$0, 0, 0, 0, 0, \frac{1}{1367}\sqrt{242530e^{12}}, \frac{1}{1367}\sqrt{297830e^{13}}, \frac{2}{1367}\sqrt{88085e^{16}},$ $\frac{10}{1367}\sqrt{4029e^{18}} + \frac{1}{1367}\sqrt{73470e^{24}}$	$(\frac{75}{1367}, -\frac{82}{1367}, -\frac{320}{1367}, \frac{225}{1367}, \frac{538}{1367}, -\frac{7}{1367}, \frac{245}{1367}, \frac{68}{1367}, \frac{143}{1367})$ $+ \frac{1}{1367}\sqrt{654910e^1} \otimes e_3 + \frac{2}{1367}\sqrt{80185e^5} \otimes e_9$	{1258, 169, 234689, 345}
9421:17	$0, 0, 0, 0, 0, \frac{28}{1483}\sqrt{95e^{12}}, \frac{10}{1483}\sqrt{4389e^{13}}, \frac{19}{1483}\sqrt{210e^{16}},$ $\frac{6}{1483}\sqrt{1995e^{18}} + \frac{15}{1483}\sqrt{2926e^{24}}$	$(-\frac{112}{1483}, \frac{272}{1483}, \frac{601}{1483}, -\frac{336}{1483}, -\frac{393}{1483}, \frac{160}{1483}, \frac{489}{1483}, \frac{48}{1483}, -\frac{64}{1483})$ $+ \frac{2}{1483}\sqrt{256690e^3} \otimes e_9 + \frac{4}{1483}\sqrt{45885e^2} \otimes e_5$	{123468, 14579, 289, 3567}
9421:17	$0, 0, 0, 0, 0, \frac{1}{395}\sqrt{3270e^{12}}, \frac{1}{395}\sqrt{5790e^{13}}, \frac{3}{395}\sqrt{190e^{16}},$ $\frac{6}{395}\sqrt{15e^{18}} + \frac{6}{395}\sqrt{145e^{24}}$	$(\frac{13}{395}, -\frac{43}{395}, \frac{11}{395}, \frac{39}{395}, \frac{22}{395}, -\frac{6}{395}, \frac{24}{395}, -\frac{17}{395}, -\frac{4}{395})$ $+ \frac{1}{395}\sqrt{5730e^4} \otimes e_7 + \frac{2}{395}\sqrt{1365e^3} \otimes e_9$	{1256789, 126789, 4569, 469}
9421:17	$0, 0, 0, 0, 0, \frac{5}{69}\sqrt{2e^{12}}, \frac{5}{69}\sqrt{42e^{13}}, \frac{5}{69}\sqrt{10e^{16}},$ $\frac{10}{69}\sqrt{7e^{18}} + \frac{10}{69}\sqrt{14e^{24}}$	$(\frac{5}{69}, \frac{5}{69}, -\frac{5}{23}, \frac{5}{23}, -\frac{20}{69}, \frac{10}{69}, -\frac{10}{69}, \frac{5}{23}, \frac{20}{69})$ $+ \frac{10}{69}\sqrt{13e^2} \otimes e_5 + \frac{5}{69}\sqrt{74e^4} \otimes e_7$	{126789, 157, 248, 4569}
9421:17	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{330e^{12}}, \frac{2}{19}\sqrt{110e^{13}}, \frac{1}{19}\sqrt{330e^{16}},$ $\frac{1}{19}\sqrt{330e^{18}} + \frac{1}{19}\sqrt{330e^{24}}$	$(0, \frac{3}{19}, -\frac{5}{19}, 0, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{2}{19}\sqrt{130e^1} \otimes e_3 + \frac{6}{19}\sqrt{10e^4} \otimes e_7$	{1258, 128, 1569, 169}
9421:18	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{2301e^{12}}, \frac{1}{29}\sqrt{295e^{13}}, \frac{1}{58}\sqrt{354e^{26}},$ $\frac{1}{58}\sqrt{2301e^{14}} + \frac{1}{29}\sqrt{295e^{28}}$	$(\frac{1}{2}, -\frac{7}{116}, -\frac{15}{29}, -\frac{21}{116}, \frac{9}{58}, \frac{51}{116}, -\frac{1}{58}, \frac{11}{29}, \frac{37}{116})$ $+ \frac{7}{58}\sqrt{118e^1} \otimes e_3$	{12589, 1289, 14568, 1468, 2356, 236, 3459, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:18	$0, 0, 0, 0, 0, \frac{46}{2373}\sqrt{74}e^{12}, \frac{46}{2373}\sqrt{422}e^{13}, \frac{115}{2373}\sqrt{5}e^{26},$ $\frac{23}{2373}\sqrt{22}e^{14} + \frac{23}{2373}\sqrt{822}e^{28}$	$(\frac{115}{2373}, -\frac{46}{791}, \frac{230}{2373}, -\frac{138}{791}, \frac{874}{2373}, -\frac{23}{2373}, \frac{115}{791}, -\frac{23}{339}, -\frac{299}{2373})$ $+ \frac{115}{339}e^1 \otimes e_4 + \frac{23}{2373}\sqrt{1373}e^5 \otimes e_7 + \frac{23}{791}\sqrt{197}e^3 \otimes e_9$	{135, 23478}
9421:18	$0, 0, 0, 0, 0, \frac{2}{467}\sqrt{4151}e^{12}, \frac{2}{467}\sqrt{8302}e^{13}, \frac{3}{467}\sqrt{3558}e^{26},$ $\frac{1}{467}\sqrt{212294}e^{14} + \frac{2}{467}\sqrt{8302}e^{28}$	$(-\frac{56}{467}, \frac{96}{467}, \frac{109}{467}, \frac{288}{467}, -\frac{305}{467}, \frac{40}{467}, \frac{53}{467}, \frac{136}{467}, \frac{232}{467})$ $+ \frac{2}{467}\sqrt{114449}e^4 \otimes e_5$	{123467, 1246, 13579, 159, 23489, 24789, 3568, 5678}
9421:18	$0, 0, 0, 0, 0, \frac{14}{369}\sqrt{318}e^{12}, \frac{1}{369}\sqrt{49714}e^{13}, \frac{2}{369}\sqrt{4081}e^{26},$ $\frac{14}{369}\sqrt{318}e^{14} + \frac{2}{369}\sqrt{6307}e^{28}$	$(\frac{134}{369}, -\frac{2}{123}, -\frac{1}{369}, -\frac{2}{41}, -\frac{79}{123}, \frac{128}{369}, \frac{133}{369}, \frac{122}{369}, \frac{116}{369})$ $+ \frac{1}{369}\sqrt{224826}e^1 \otimes e_5$	{12389, 12789, 13468, 14678, 23567, 256, 34579, 459}
9421:18	$0, 0, 0, 0, 0, \frac{4}{315}\sqrt{285}e^{12}, \frac{1}{315}\sqrt{14630}e^{13}, \frac{38}{315}\sqrt{10}e^{26},$ $\frac{1}{105}\sqrt{570}e^{14} + \frac{2}{315}\sqrt{5035}e^{28}$	$(-\frac{1}{9}, \frac{22}{315}, -\frac{38}{315}, \frac{22}{105}, \frac{2}{5}, -\frac{13}{315}, -\frac{73}{315}, \frac{1}{35}, \frac{31}{315})$ $+ \frac{1}{105}\sqrt{3990}e^2 \otimes e_7 + \frac{1}{315}\sqrt{16530}e^5 \otimes e_9$	{12358, 146789, 269, 3457}
9421:18	$0, 0, 0, 0, 0, \frac{8}{1449}\sqrt{9426}e^{12}, \frac{2}{1449}\sqrt{10997}e^{13}, \frac{1}{1449}\sqrt{267070}e^{26},$ $\frac{8}{161}\sqrt{15710}e^{14} + \frac{2}{1449}\sqrt{323626}e^{28}$	$(\frac{4}{207}, -\frac{50}{1449}, \frac{241}{1449}, -\frac{50}{483}, 1, -\frac{22}{1449}, \frac{269}{1449}, -\frac{8}{161}, -\frac{122}{1449})$ $+ \frac{2}{1449}\sqrt{937887}e^5 \otimes e_9$	{12369, 12679, 1345, 1457, 23578, 258, 346789, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1395}\sqrt{18737}e^{12}, \frac{4}{4185}\sqrt{178687}e^{13}, \frac{2}{4185}\sqrt{448774}e^{26},$ $\frac{4}{4185}\sqrt{100083}e^{14} + \frac{2}{4185}\sqrt{526007}e^{28}$	$(-\frac{601}{4185}, \frac{148}{1395}, \frac{131}{4185}, \frac{148}{465}, -\frac{29}{155}, -\frac{157}{4185}, -\frac{94}{837}, \frac{287}{4185}, \frac{731}{4185})$ $+ \frac{2}{4185}\sqrt{1137930}e^2 \otimes e_7 + \frac{2}{4185}\sqrt{566223}e^3 \otimes e_5$	{1238, 1456789, 2569, 347}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1723}\sqrt{189735}e^{12}, \frac{1}{1723}\sqrt{221010}e^{13}, \frac{2}{1723}\sqrt{120930}e^{26},$ $\frac{3}{1723}\sqrt{18070}e^{14} + \frac{1}{1723}\sqrt{176530}e^{28}$	$(\frac{361}{1723}, \frac{23}{1723}, -\frac{334}{1723}, \frac{69}{1723}, -\frac{672}{1723}, \frac{384}{1723}, \frac{27}{1723}, \frac{407}{1723}, \frac{430}{1723})$ $+ \frac{1}{1723}\sqrt{943810}e^1 \otimes e_3 + \frac{2}{1723}\sqrt{298155}e^2 \otimes e_5$	{1248, 15689, 23469, 35}
9421:18	$0, 0, 0, 0, 0, \frac{4}{4529}\sqrt{185546}e^{12}, \frac{8}{4529}\sqrt{87847}e^{13}, \frac{10}{4529}\sqrt{4926}e^{26},$ $\frac{6}{4529}\sqrt{27093}e^{14} + \frac{2}{4529}\sqrt{946613}e^{28}$	$(-\frac{655}{4529}, \frac{51}{4529}, \frac{1140}{4529}, \frac{153}{4529}, \frac{2127}{4529}, -\frac{604}{4529}, \frac{485}{4529}, -\frac{79}{647}, -\frac{502}{4529})$ $+ \frac{2}{4529}\sqrt{1376817}e^5 \otimes e_7 + \frac{2}{4529}\sqrt{1972042}e^3 \otimes e_9$	{12679, 1345, 2378, 45689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{1165}e^{12}, \frac{2}{169}\sqrt{2330}e^{13}, \frac{1}{39}\sqrt{466}e^{26},$ $\frac{2}{507}\sqrt{57318}e^{14} + \frac{2}{169}\sqrt{2330}e^{28}$	$(-\frac{22}{169}, \frac{68}{507}, -\frac{33}{169}, \frac{68}{169}, \frac{27}{507}, \frac{2}{169}, -\frac{55}{169}, \frac{70}{507}, \frac{46}{169})$ $+ \frac{2}{507}\sqrt{49629}e^2 \otimes e_7$	{12358, 1238, 1456789, 146789, 2569, 269, 3457, 347}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1579}\sqrt{7966}e^{12}, \frac{2}{1579}\sqrt{78522}e^{13}, \frac{3}{1579}\sqrt{37554}e^{26},$ $\frac{1}{1579}\sqrt{23898}e^{14} + \frac{2}{1579}\sqrt{145095}e^{28}$	$(-\frac{136}{1579}, \frac{56}{1579}, \frac{601}{1579}, \frac{168}{1579}, -\frac{513}{1579}, -\frac{80}{1579}, \frac{465}{1579}, -\frac{24}{1579}, \frac{32}{1579})$ $+ \frac{4}{1579}\sqrt{48934}e^3 \otimes e_9 + \frac{6}{1579}\sqrt{22191}e^2 \otimes e_5$	{12348, 156789, 2469, 357}
9421:18	$0, 0, 0, 0, 0, \frac{5}{441}\sqrt{30}e^{12}, \frac{5}{147}\sqrt{10}e^{13}, \frac{5}{441}\sqrt{110}e^{26},$ $\frac{5}{441}\sqrt{14}e^{14} + \frac{5}{147}\sqrt{10}e^{28}$	$(\frac{5}{147}, \frac{10}{441}, -\frac{110}{441}, \frac{10}{147}, \frac{170}{441}, \frac{25}{441}, -\frac{95}{441}, \frac{5}{63}, \frac{5}{49})$ $+ \frac{10}{441}\sqrt{335}e^1 \otimes e_3 + \frac{5}{441}\sqrt{1370}e^4 \otimes e_7 + \frac{5}{441}\sqrt{1370}e^5 \otimes e_9$	{16789, 357}
9421:18	$0, 0, 0, 0, 0, \frac{4}{4091}\sqrt{218685}e^{12}, \frac{12}{4091}\sqrt{9821}e^{13}, \frac{24}{4091}\sqrt{4270}e^{26},$ $\frac{8}{4091}\sqrt{28731}e^{14} + \frac{12}{4091}\sqrt{13237}e^{28}$	$(\frac{966}{4091}, -\frac{166}{4091}, -\frac{38}{4091}, -\frac{498}{4091}, -\frac{1630}{4091}, \frac{800}{4091}, \frac{928}{4091}, \frac{634}{4091}, \frac{468}{4091})$ $+ \frac{20}{4091}\sqrt{15189}e^2 \otimes e_5 + \frac{4}{4091}\sqrt{287493}e^1 \otimes e_4$	{1238, 1278, 3457, 45}
9421:18	$0, 0, 0, 0, 0, \frac{2}{663}\sqrt{17287}e^{12}, \frac{2}{663}\sqrt{17873}e^{13}, \frac{1}{663}\sqrt{13478}e^{26},$ $\frac{1}{663}\sqrt{104894}e^{14} + \frac{2}{663}\sqrt{17873}e^{28}$	$(-\frac{38}{221}, \frac{14}{221}, \frac{305}{663}, \frac{42}{221}, -\frac{167}{663}, -\frac{24}{221}, \frac{191}{663}, -\frac{10}{221}, \frac{4}{221})$ $+ \frac{2}{663}\sqrt{34574}e^4 \otimes e_5 + \frac{2}{663}\sqrt{52447}e^3 \otimes e_9$	{125679, 134, 23578, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{753}\sqrt{22165}e^{12}, \frac{1}{753}\sqrt{81158}e^{13}, \frac{2}{753}\sqrt{3410}e^{26},$ $\frac{1}{753}\sqrt{195734}e^{14} + \frac{1}{753}\sqrt{81158}e^{28}$	$(\frac{47}{251}, \frac{29}{753}, -\frac{200}{753}, \frac{29}{251}, -\frac{254}{753}, \frac{170}{753}, -\frac{59}{753}, \frac{199}{753}, \frac{76}{251})$ $+ \frac{1}{753}\sqrt{258478}e^1 \otimes e_3 + \frac{2}{753}\sqrt{53537}e^4 \otimes e_5$	{12589, 1468, 2356, 349}
9421:18	$0, 0, 0, 0, 0, \frac{1}{360}\sqrt{25593}e^{12}, \frac{1}{360}\sqrt{124822}e^{13}, \frac{1}{180}\sqrt{4939}e^{26},$ $\frac{1}{360}\sqrt{25593}e^{14} + \frac{1}{360}\sqrt{36818}e^{28}$	$(-\frac{2}{45}, \frac{7}{80}, \frac{221}{360}, \frac{21}{80}, -\frac{19}{30}, \frac{31}{720}, \frac{41}{72}, \frac{47}{360}, \frac{157}{720})$ $+ \frac{7}{180}\sqrt{1347}e^3 \otimes e_5$	{123469, 1245679, 13, 157, 23478, 2458, 36789, 5689}
9421:18	$0, 0, 0, 0, 0, \frac{6}{397}\sqrt{715}e^{12}, \frac{4}{397}\sqrt{1430}e^{13}, \frac{33}{397}\sqrt{26}e^{26},$ $\frac{11}{397}\sqrt{78}e^{14} + \frac{4}{397}\sqrt{1430}e^{28}$	$(\frac{14}{397}, \frac{28}{397}, -\frac{129}{397}, \frac{84}{397}, \frac{51}{397}, \frac{42}{397}, -\frac{115}{397}, \frac{70}{397}, \frac{98}{397})$ $+ \frac{10}{397}\sqrt{286}e^1 \otimes e_3 + \frac{2}{397}\sqrt{17589}e^2 \otimes e_7$	{1456789, 146789, 3457, 347}
9421:18	$0, 0, 0, 0, 0, \frac{20}{3533}\sqrt{791}e^{12}, \frac{4}{3533}\sqrt{230181}e^{13}, \frac{6}{3533}\sqrt{11865}e^{26},$ $\frac{1}{3533}\sqrt{111531}e^{14} + \frac{4}{3533}\sqrt{571893}e^{28}$	$(\frac{523}{3533}, -\frac{353}{3533}, \frac{1046}{3533}, -\frac{1059}{3533}, \frac{405}{3533}, \frac{170}{3533}, \frac{1569}{3533}, -\frac{183}{3533}, -\frac{536}{3533})$ $+ \frac{38}{3533}\sqrt{3955}e^3 \otimes e_9 + \frac{42}{3533}\sqrt{2373}e^1 \otimes e_4$	{125679, 12679, 45689, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:18	$0, 0, 0, 0, 0, \frac{2}{1903}\sqrt{98430}e^{12}, \frac{10}{1903}\sqrt{4053}e^{13}, \frac{3}{1903}\sqrt{13510}e^{26},$ $\frac{5}{1903}\sqrt{47478}e^{14} + \frac{8}{1903}\sqrt{1930}e^{28}$	$(\frac{472}{1903}, -\frac{142}{1903}, -\frac{493}{1903}, -\frac{426}{1903}, \frac{1011}{1903}, \frac{30}{173}, -\frac{21}{1903}, \frac{188}{1903}, \frac{46}{1903})$ $+ \frac{2}{1903}\sqrt{396615}e^5 \otimes e_9 + \frac{2}{1903}\sqrt{430390}e^1 \otimes e_3$	{12458, 1689, 23469, 35}
9421:18	$0, 0, 0, 0, 0, \frac{1}{360}\sqrt{25593}e^{12}, \frac{1}{360}\sqrt{124822}e^{13}, \frac{1}{180}\sqrt{4939}e^{26},$ $\frac{1}{360}\sqrt{25593}e^{14} + \frac{1}{360}\sqrt{36818}e^{28}$	$(-\frac{2}{45}, \frac{7}{80}, -\frac{73}{360}, \frac{21}{80}, \frac{31}{720}, -\frac{89}{360}, \frac{47}{360}, \frac{157}{720})$ $+ \frac{7}{180}\sqrt{1347}e^5 \otimes e_7$	{1234569, 124679, 135, 17, 23478, 2458, 36789, 5689}
9421:18	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{15710}e^{12}, \frac{2}{1449}\sqrt{323626}e^{13}, \frac{1}{1449}\sqrt{267070}e^{26},$ $\frac{8}{1449}\sqrt{9426}e^{14} + \frac{2}{1449}\sqrt{10997}e^{28}$	$(\frac{824}{1449}, -\frac{83}{483}, -\frac{157}{1449}, -\frac{83}{1449}, \frac{85}{483}, \frac{25}{63}, \frac{29}{63}, \frac{326}{1449}, \frac{11}{207})$ $+ \frac{2}{1449}\sqrt{937887}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 3457, 347, 4, 45}
9421:18	$0, 0, 0, 0, 0, \frac{9}{776}\sqrt{1623}e^{12}, \frac{1}{776}\sqrt{50854}e^{13}, \frac{1}{388}\sqrt{8115}e^{26},$ $\frac{9}{776}\sqrt{1623}e^{14} + \frac{1}{776}\sqrt{55182}e^{28}$	$(\frac{24}{97}, -\frac{21}{1552}, -\frac{349}{776}, -\frac{63}{1552}, \frac{48}{97}, \frac{363}{1552}, -\frac{157}{776}, \frac{171}{776}, \frac{321}{1552})$ $+ \frac{7}{194}\sqrt{541}e^1 \otimes e_3 + \frac{7}{388}\sqrt{1623}e^5 \otimes e_7$	{12789, 14678, 2367, 3479}
9421:18	$0, 0, 0, 0, 0, \frac{8}{1449}\sqrt{9426}e^{12}, \frac{2}{1449}\sqrt{323626}e^{13}, \frac{1}{1449}\sqrt{267070}e^{26},$ $\frac{1}{161}\sqrt{15710}e^{14} + \frac{2}{1449}\sqrt{10997}e^{28}$	$(-\frac{370}{1449}, \frac{116}{483}, -\frac{157}{1449}, \frac{116}{161}, \frac{85}{483}, -\frac{22}{1449}, -\frac{527}{1449}, \frac{326}{1449}, \frac{674}{1449})$ $+ \frac{2}{1449}\sqrt{937887}e^4 \otimes e_7$	{125679, 12679, 134, 1345, 23578, 2378, 45689, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{491}\sqrt{22715}e^{12}, \frac{2}{491}\sqrt{33495}e^{13}, \frac{3}{491}\sqrt{2310}e^{26},$ $\frac{1}{491}\sqrt{66990}e^{14} + \frac{2}{491}\sqrt{33495}e^{28}$	$(-\frac{62}{491}, -\frac{2}{491}, \frac{317}{491}, -\frac{6}{491}, \frac{81}{491}, -\frac{64}{491}, \frac{255}{491}, -\frac{66}{491}, -\frac{68}{491})$ $+ \frac{10}{491}\sqrt{3157}e^3 \otimes e_9$	{125679, 12679, 134, 1345, 23578, 2378, 45689, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1903}\sqrt{98430}e^{12}, \frac{8}{1903}\sqrt{1930}e^{13}, \frac{3}{1903}\sqrt{13510}e^{26},$ $\frac{5}{1903}\sqrt{47478}e^{14} + \frac{10}{1903}\sqrt{4053}e^{28}$	$(\frac{18}{173}, \frac{12}{173}, -\frac{767}{1903}, \frac{36}{173}, \frac{189}{1903}, \frac{30}{173}, -\frac{569}{1903}, \frac{42}{173}, \frac{54}{173})$ $+ \frac{2}{1903}\sqrt{396615}e^4 \otimes e_7 + \frac{2}{1903}\sqrt{430390}e^1 \otimes e_3$	{125789, 12789, 23567, 2367}
9421:18	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{3}e^{13}, \frac{2}{7}\sqrt{3}e^{26},$ $\frac{1}{7}\sqrt{6}e^{14} + \frac{2}{7}\sqrt{3}e^{28}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, 0, 0, -\frac{2}{7}, \frac{1}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{30}e^2 \otimes e_7 + \frac{1}{7}\sqrt{6}e^4 \otimes e_5$	{12358, 146789, 2569, 347}
9421:18	$0, 0, 0, 0, 0, \frac{8}{455}\sqrt{302}e^{12}, \frac{16}{455}\sqrt{151}e^{13}, \frac{2}{455}\sqrt{2869}e^{26},$ $\frac{8}{455}\sqrt{302}e^{14} + \frac{16}{455}\sqrt{151}e^{28}$	$(\frac{128}{455}, -\frac{58}{455}, -\frac{1}{65}, -\frac{174}{455}, \frac{256}{455}, \frac{2}{455}, \frac{121}{455}, \frac{12}{455}, -\frac{46}{455})$ $+ \frac{2}{455}\sqrt{30049}e^1 \otimes e_4 + \frac{2}{455}\sqrt{30049}e^5 \otimes e_9$	{13689, 16789, 234679, 2469}
9421:18	$0, 0, 0, 0, 0, \frac{170}{1181}\sqrt{3}e^{12}, \frac{17}{1181}\sqrt{330}e^{13}, \frac{34}{1181}\sqrt{111}e^{26},$ $\frac{17}{1181}\sqrt{42}e^{14} + \frac{34}{1181}\sqrt{130}e^{28}$	$(\frac{17}{1181}, \frac{34}{1181}, -\frac{272}{1181}, \frac{102}{1181}, \frac{408}{1181}, \frac{51}{1181}, -\frac{255}{1181}, \frac{85}{1181}, \frac{119}{1181})$ $+ \frac{17}{1181}\sqrt{1086}e^2 \otimes e_7 + \frac{17}{1181}\sqrt{570}e^5 \otimes e_9 + \frac{34}{1181}\sqrt{115}e^1 \otimes e_3$	{16789, 357}
9421:18	$0, 0, 0, 0, 0, \frac{1}{99}\sqrt{38}e^{12}, \frac{1}{99}\sqrt{1729}e^{13}, \frac{1}{99}\sqrt{247}e^{26},$ $\frac{1}{99}\sqrt{1995}e^{14} + \frac{2}{99}\sqrt{133}e^{28}$	$(\frac{2}{99}, \frac{1}{11}, -\frac{13}{99}, \frac{3}{11}, -\frac{4}{11}, \frac{1}{9}, -\frac{1}{9}, \frac{20}{9}, \frac{29}{99})$ $+ \frac{1}{99}\sqrt{3306}e^4 \otimes e_7 + \frac{1}{99}\sqrt{3477}e^1 \otimes e_5$	{12789, 13468, 23567, 459}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{39485}e^{12}, \frac{1}{1193}\sqrt{234526}e^{13}, \frac{12}{1193}\sqrt{149}e^{26},$ $\frac{1}{1193}\sqrt{165390}e^{14} + \frac{4}{1193}\sqrt{8642}e^{28}$	$(-\frac{298}{1193}, \frac{105}{1193}, \frac{315}{1193}, \frac{315}{1193}, \frac{108}{1193}, -\frac{193}{1193}, \frac{17}{1193}, -\frac{88}{1193}, \frac{17}{1193})$ $- \frac{1}{1193}\sqrt{288762}e^4 \otimes e_7 + \frac{1}{1193}\sqrt{357898}e^3 \otimes e_9$	{125679, 12679, 134, 1345, 23578, 2378, 45689, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{39485}e^{12}, \frac{1}{1193}\sqrt{234526}e^{13}, \frac{12}{1193}\sqrt{149}e^{26},$ $\frac{1}{1193}\sqrt{165390}e^{14} + \frac{4}{1193}\sqrt{8642}e^{28}$	$(-\frac{298}{1193}, \frac{105}{1193}, \frac{315}{1193}, \frac{315}{1193}, \frac{108}{1193}, -\frac{193}{1193}, \frac{17}{1193}, -\frac{88}{1193}, \frac{17}{1193})$ $+ \frac{1}{1193}\sqrt{288762}e^4 \otimes e_7 + \frac{1}{1193}\sqrt{357898}e^3 \otimes e_9$	{125679, 12679, 134, 1345, 23578, 2378, 45689, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1563}\sqrt{80185}e^{12}, \frac{4}{1563}\sqrt{52535}e^{13}, \frac{4}{1563}\sqrt{5135}e^{26},$ $\frac{10}{1563}\sqrt{2686}e^{14} + \frac{2}{521}\sqrt{2765}e^{28}$	$(-\frac{343}{1563}, \frac{244}{1563}, \frac{95}{521}, \frac{244}{521}, -\frac{505}{1563}, -\frac{33}{521}, -\frac{58}{1563}, \frac{145}{1563}, \frac{389}{1563})$ $+ \frac{2}{1563}\sqrt{261095}e^3 \otimes e_5 + \frac{2}{1563}\sqrt{294670}e^4 \otimes e_7$	{125679, 134, 2378, 45689}
9421:18	$0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{239190}e^{12}, \frac{2}{1497}\sqrt{6834}e^{13}, \frac{1}{1497}\sqrt{1136722}e^{26},$ $\frac{67}{1497}\sqrt{102}e^{14} + \frac{2}{1497}\sqrt{242607}e^{28}$	$(\frac{8}{499}, \frac{152}{1497}, \frac{81}{499}, \frac{152}{499}, -\frac{329}{499}, \frac{176}{499}, \frac{89}{499}, \frac{328}{499}, \frac{160}{499})$ $+ \frac{2}{499}\sqrt{78591}e^2 \otimes e_5$	{1238, 1278, 1345689, 1456789, 23679, 269, 3457, 45}
9421:18	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{1}{45}\sqrt{265}e^{13}, \frac{1}{45}\sqrt{205}e^{26},$ $\frac{1}{9}\sqrt{3}e^{14} + \frac{1}{45}\sqrt{170}e^{28}$	$(\frac{1}{45}, \frac{1}{15}, -\frac{8}{45}, \frac{1}{5}, -\frac{1}{5}, \frac{4}{45}, -\frac{7}{45}, \frac{7}{45}, \frac{2}{9})$ $+ \frac{1}{45}\sqrt{285}e^1 \otimes e_5 + \frac{1}{45}\sqrt{510}e^2 \otimes e_7$	{1238, 146789, 2569, 3457}
9421:18	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{110}e^{12}, \frac{1}{62}\sqrt{759}e^{13}, \frac{3}{62}\sqrt{11}e^{26},$ $\frac{1}{62}\sqrt{561}e^{14} + \frac{3}{31}\sqrt{11}e^{28}$	$(\frac{2}{31}, -\frac{1}{31}, \frac{10}{31}, -\frac{3}{31}, -\frac{9}{31}, \frac{1}{31}, \frac{12}{31}, 0, -\frac{1}{31})$ $+ \frac{1}{62}\sqrt{1342}e^3 \otimes e_9 + \frac{33}{62}e^1 \otimes e_5$	{12679, 134, 23578, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:18	$0, 0, 0, 0, 0, \frac{324}{6461}\sqrt{17}e^{12}, \frac{27}{6461}\sqrt{3934}e^{13}, \frac{108}{6461}\sqrt{166}e^{26},$ $\frac{27}{6461}\sqrt{2362}e^{14} + \frac{54}{6461}\sqrt{743}e^{28}$	$(\frac{81}{923}, -\frac{54}{6461}, -\frac{1350}{6461}, -\frac{162}{6461}, \frac{162}{923}, \frac{513}{6461}, -\frac{783}{6461}, \frac{459}{6461}, \frac{405}{6461})$ $+ \frac{108}{923}\sqrt{5}e^1 \otimes e_4 + \frac{27}{6461}\sqrt{1034}e^5 \otimes e_9 + \frac{27}{6461}\sqrt{6734}e^2 \otimes e_7$	{12358, 3457}
9421:18	$0, 0, 0, 0, 0, \frac{10}{1563}\sqrt{2686}e^{12}, \frac{4}{1563}\sqrt{52535}e^{13}, \frac{4}{1563}\sqrt{5135}e^{26},$ $\frac{2}{1563}\sqrt{80185}e^{14} + \frac{2}{521}\sqrt{2765}e^{28}$	$(\frac{403}{1563}, -\frac{43}{521}, -\frac{376}{1563}, -\frac{129}{521}, \frac{817}{1563}, \frac{274}{1563}, \frac{9}{521}, \frac{145}{1563}, \frac{16}{1563})$ $+ \frac{2}{1563}\sqrt{261095}e^5 \otimes e_7 + \frac{2}{1563}\sqrt{294670}e^1 \otimes e_4$	{12358, 1278, 347, 45}
9421:18	$0, 0, 0, 0, 0, \frac{1}{1399}\sqrt{251790}e^{12}, \frac{14}{1399}\sqrt{1199}e^{13}, \frac{14}{1399}\sqrt{2398}e^{26},$ $\frac{1}{1399}\sqrt{50358}e^{14} + \frac{22}{1399}\sqrt{763}e^{28}$	$(-\frac{167}{1399}, \frac{209}{1399}, \frac{31}{1399}, \frac{627}{1399}, -\frac{554}{1399}, \frac{42}{1399}, -\frac{136}{1399}, \frac{251}{1399}, \frac{460}{1399})$ $+ \frac{1}{1399}\sqrt{1127714}e^2 \otimes e_5 + \frac{3}{1399}\sqrt{28994}e^4 \otimes e_7$	{12348, 156789, 2469, 357}
9421:18	$0, 0, 0, 0, 0, \frac{69}{443}\sqrt{6}e^{12}, \frac{3}{443}\sqrt{2806}e^{13}, \frac{3}{443}\sqrt{690}e^{26},$ $\frac{6}{443}\sqrt{1495}e^{14} + \frac{3}{443}\sqrt{2806}e^{28}$	$(-\frac{77}{443}, \frac{38}{443}, -\frac{16}{443}, \frac{114}{443}, \frac{244}{443}, -\frac{39}{443}, -\frac{93}{443}, -\frac{1}{443}, \frac{37}{443})$ $+ \frac{3}{443}\sqrt{9154}e^4 \otimes e_7 + \frac{3}{443}\sqrt{9154}e^5 \otimes e_9$	{12679, 1345, 23578, 4689}
9421:18	$0, 0, 0, 0, 0, \frac{10}{1563}\sqrt{2686}e^{12}, \frac{4}{1563}\sqrt{52535}e^{13}, \frac{4}{1563}\sqrt{5135}e^{26},$ $\frac{2}{1563}\sqrt{80185}e^{14} + \frac{2}{521}\sqrt{2765}e^{28}$	$(\frac{403}{1563}, -\frac{43}{521}, \frac{95}{521}, -\frac{129}{521}, -\frac{505}{1563}, \frac{274}{1563}, \frac{688}{1563}, \frac{145}{1563}, \frac{16}{1563})$ $+ \frac{2}{1563}\sqrt{261095}e^3 \otimes e_5 + \frac{2}{1563}\sqrt{294670}e^1 \otimes e_4$	{1238, 12578, 347, 45}
9421:18	$0, 0, 0, 0, 0, \frac{2}{4437}\sqrt{269103}e^{12}, \frac{2}{4437}\sqrt{401893}e^{13}, \frac{8}{4437}\sqrt{16531}e^{26},$ $\frac{2}{4437}\sqrt{272355}e^{14} + \frac{28}{4437}\sqrt{1355}e^{28}$	$(\frac{479}{4437}, -\frac{7}{1479}, -\frac{1042}{4437}, \frac{7}{493}, \frac{49}{493}, \frac{458}{4437}, -\frac{563}{4437}, \frac{437}{4437}, \frac{416}{4437})$ $+ \frac{2}{4437}\sqrt{408939}e^1 \otimes e_4 + \frac{2}{4437}\sqrt{673977}e^2 \otimes e_7$	{12358, 1238, 3457, 347}
9421:19	$0, 0, 0, 0, 0, -\frac{17}{109}\sqrt{15}e^{12}, \frac{1}{109}\sqrt{1955}e^{13} + \frac{3}{109}\sqrt{85}e^{24}, \frac{5}{109}\sqrt{221}e^{16},$ $\frac{17}{109}\sqrt{15}e^{18} + \frac{3}{109}\sqrt{85}e^{34}$	$(\frac{14}{109}, -\frac{2}{109}, \frac{12}{109}, \frac{28}{109}, -\frac{71}{109}, \frac{12}{109}, \frac{26}{109}, \frac{26}{109}, \frac{40}{109})$ $+ \frac{30}{109}\sqrt{17}e^1 \otimes e_5$	{1238, 12478, 13469, 1679, 23456789, 25689, 357, 45, 1238, 12478, 13469, 1679, 23456789, 25689, 357, 45}
9421:19	$0, 0, 0, 0, 0, \frac{17}{109}\sqrt{15}e^{12}, \frac{1}{109}\sqrt{1955}e^{13} + \frac{3}{109}\sqrt{85}e^{24}, \frac{5}{109}\sqrt{221}e^{16},$ $\frac{17}{109}\sqrt{15}e^{18} + \frac{3}{109}\sqrt{85}e^{34}$	$(\frac{14}{109}, -\frac{2}{109}, \frac{12}{109}, \frac{28}{109}, -\frac{71}{109}, \frac{12}{109}, \frac{26}{109}, \frac{26}{109}, \frac{40}{109})$ $+ \frac{30}{109}\sqrt{17}e^1 \otimes e_5$	{1238, 12478, 13469, 1679, 23456789, 25689, 357, 45, 1238, 12478, 13469, 1679, 23456789, 25689, 357, 45}
9421:20	$0, 0, 0, 0, 0, \frac{28}{137}\sqrt{6}e^{12}, \frac{14}{685}\sqrt{690}e^{13} + \frac{112}{685}\sqrt{5}e^{24}, \frac{28}{685}\sqrt{30}e^{16},$ $\frac{42}{685}\sqrt{35}e^{18} + \frac{14}{685}\sqrt{15}e^{35}$	$(-\frac{21}{137}, \frac{63}{137}, \frac{49}{137}, -\frac{35}{137}, -\frac{49}{137}, \frac{42}{137}, \frac{28}{137}, \frac{21}{137}, 0)$ $+ \frac{14}{137}\sqrt{61}e^2 \otimes e_4 + \frac{14}{685}\sqrt{1570}e^3 \otimes e_5$	{123, 458}
9421:20	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{8}{85}\sqrt{30}e^{13} + \frac{4}{85}\sqrt{185}e^{24}, \frac{8}{85}\sqrt{15}e^{16},$ $\frac{4}{85}\sqrt{145}e^{18} + \frac{8}{85}\sqrt{30}e^{35}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{8}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{5}{17}, -\frac{1}{17}, 0)$ $+ \frac{4}{17}\sqrt{13}e^4 \otimes e_9 + \frac{8}{85}\sqrt{10}e^3 \otimes e_5$	{123679, 3689}
9421:20	$0, 0, 0, 0, 0, \frac{12}{151}\sqrt{30}e^{12}, \frac{18}{151}\sqrt{23}e^{13} + \frac{36}{151}\sqrt{5}e^{24}, \frac{6}{151}\sqrt{93}e^{16},$ $\frac{12}{151}\sqrt{30}e^{18} + \frac{36}{151}\sqrt{5}e^{35}$	$(-\frac{18}{151}, \frac{51}{151}, \frac{33}{151}, -\frac{36}{151}, -\frac{36}{151}, \frac{33}{151}, \frac{15}{151}, \frac{15}{151}, -\frac{3}{151})$ $+ \frac{6}{151}\sqrt{381}e^2 \otimes e_9$	{123578, 1248, 134679, 1569}
9421:20	$0, 0, 0, 0, 0, \frac{32}{3723}\sqrt{470}e^{12}, \frac{64}{3723}\sqrt{130}e^{13} + \frac{32}{3723}\sqrt{1571}e^{24},$ $\frac{32}{3723}\sqrt{295}e^{16}, \frac{64}{3723}\sqrt{181}e^{18} + \frac{32}{3723}\sqrt{1173}e^{35}$	$(\frac{112}{1241}, -\frac{736}{3723}, -\frac{96}{1241}, \frac{784}{3723}, \frac{560}{3723}, -\frac{400}{3723}, \frac{16}{1241}, -\frac{64}{3723}, \frac{16}{219})$ $+ \frac{32}{3723}\sqrt{1990}e^4 \otimes e_9 + \frac{64}{1241}\sqrt{38}e^5 \otimes e_7$	{123679, 2345}
9421:20	$0, 0, 0, 0, 0, \frac{124}{1609}\sqrt{23}e^{12}, \frac{31}{1609}\sqrt{265}e^{13} + \frac{124}{1609}\sqrt{30}e^{24},$ $\frac{62}{1609}\sqrt{10}e^{16}, \frac{31}{1609}\sqrt{319}e^{18} + \frac{31}{1609}\sqrt{709}e^{35}$	$(\frac{31}{3218}, \frac{341}{1609}, -\frac{589}{3218}, -\frac{620}{1609}, \frac{682}{1609}, \frac{713}{3218}, -\frac{279}{1609}, \frac{372}{1609}, \frac{775}{3218})$ $+ \frac{31}{1609}\sqrt{1145}e^2 \otimes e_4 + \frac{62}{1609}\sqrt{422}e^5 \otimes e_7$	{1467, 3479}
9421:20	$0, 0, 0, 0, 0, \frac{4}{117}\sqrt{862}e^{12}, \frac{1}{351}\sqrt{33187}e^{13} + \frac{2}{351}\sqrt{3017}e^{24}, \frac{2}{351}\sqrt{7327}e^{16},$ $\frac{1}{351}\sqrt{24567}e^{18} + \frac{1}{351}\sqrt{37497}e^{35}$	$(-\frac{95}{702}, \frac{17}{27}, \frac{1}{6}, -\frac{70}{117}, \frac{20}{351}, \frac{347}{702}, \frac{11}{351}, \frac{14}{39}, \frac{157}{702})$ $+ \frac{5}{351}\sqrt{9913}e^2 \otimes e_4$	{12589, 146, 23568, 349}
9421:20	$0, 0, 0, 0, 0, \frac{12}{571}\sqrt{322}e^{12}, \frac{12}{571}\sqrt{770}e^{13} + \frac{156}{571}\sqrt{7}e^{24}, \frac{12}{571}\sqrt{35}e^{16},$ $\frac{12}{571}\sqrt{322}e^{18} + \frac{156}{571}\sqrt{7}e^{35}$	$(\frac{82}{571}, -\frac{28}{571}, -\frac{184}{571}, \frac{74}{571}, \frac{402}{571}, \frac{54}{571}, -\frac{102}{571}, \frac{136}{571}, \frac{218}{571})$ $+ \frac{168}{571}\sqrt{17}e^5 \otimes e_7$	{135, 147, 34679, 569}
9421:20	$0, 0, 0, 0, 0, \frac{6}{13}e^{12}, \frac{3}{26}\sqrt{30}e^{13} + \frac{3}{13}\sqrt{6}e^{24}, \frac{3}{26}\sqrt{13}e^{16},$ $\frac{6}{13}e^{18} + \frac{3}{13}\sqrt{6}e^{35}$	$(-\frac{3}{26}, \frac{9}{26}, \frac{9}{52}, -\frac{15}{52}, -\frac{9}{52}, \frac{3}{13}, \frac{3}{52}, \frac{3}{26}, 0)$ $+ \frac{21}{26}e^2 \otimes e_9 + \frac{3}{26}\sqrt{6}e^3 \otimes e_5$	{123578, 1248}
9421:20	$0, 0, 0, 0, 0, \frac{3}{22}\sqrt{2}e^{12}, \frac{1}{22}\sqrt{30}e^{13} + \frac{2}{11}\sqrt{3}e^{24}, \frac{1}{22}\sqrt{15}e^{16},$ $\frac{3}{22}\sqrt{2}e^{18} + \frac{2}{11}\sqrt{3}e^{35}$	$(-\frac{1}{22}, \frac{2}{11}, -\frac{1}{44}, -\frac{1}{4}, \frac{3}{44}, \frac{22}{22}, -\frac{3}{44}, \frac{1}{11}, \frac{1}{22})$ $+ \frac{5}{22}\sqrt{42}e^5 \otimes e_7 + \frac{2}{22}\sqrt{3}e^2 \otimes e_9$	{134679, 1569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:20	$0, 0, 0, 0, 0, \frac{44}{183}\sqrt{2}e^{12}, \frac{8}{183}\sqrt{187}e^{13} + \frac{4}{183}\sqrt{1001}e^{24}, \frac{16}{183}\sqrt{22}e^{16},$ $\frac{4}{183}\sqrt{781}e^{18} + \frac{8}{183}\sqrt{165}e^{35}$	$(\frac{5}{61}, -\frac{41}{183}, \frac{12}{61}, \frac{92}{183}, -\frac{32}{183}, -\frac{26}{183}, \frac{17}{61}, -\frac{11}{183}, \frac{4}{183})$ $+ \frac{4}{183}\sqrt{1705}e^4 \otimes e_9$	{123679, 134578, 2345, 3689}
9421:20	$0, 0, 0, 0, 0, \frac{16}{103}\sqrt{6}e^{12}, \frac{64}{103}\sqrt{3}e^{13} + \frac{48}{103}e^{24}, \frac{16}{103}\sqrt{11}e^{16},$ $\frac{16}{103}\sqrt{6}e^{18} + \frac{48}{103}e^{35}$	$(-\frac{10}{103}, \frac{30}{103}, \frac{64}{103}, \frac{24}{103}, -\frac{64}{103}, \frac{20}{103}, \frac{54}{103}, \frac{10}{103}, 0)$ $+ \frac{32}{103}\sqrt{22}e^3 \otimes e_5$	{134, 157, 23478, 258}
9421:21	$0, 0, 0, 0, 0, \frac{44}{343}\sqrt{6}e^{12}, \frac{44}{343}\sqrt{14}e^{14} + \frac{11}{343}\sqrt{174}e^{23}, \frac{33}{343}\sqrt{26}e^{16},$ $\frac{44}{343}\sqrt{15}e^{18} + \frac{11}{343}\sqrt{114}e^{35}$	$(\frac{66}{343}, -\frac{99}{343}, \frac{110}{343}, -\frac{55}{343}, -\frac{11}{343}, -\frac{33}{343}, \frac{11}{343}, \frac{33}{343}, \frac{99}{343})$ $+ \frac{11}{343}\sqrt{406}e^1 \otimes e_4 + \frac{44}{343}\sqrt{13}e^3 \otimes e_5$	{1238, 45}
9421:21	$0, 0, 0, 0, 0, \frac{4}{1221}\sqrt{29369}e^{12}, \frac{4}{1221}\sqrt{38931}e^{14} + \frac{1}{1221}\sqrt{203534}e^{23},$ $\frac{1}{1221}\sqrt{763594}e^{16}, \frac{4}{1221}\sqrt{42346}e^{18} + \frac{1}{1221}\sqrt{211730}e^{35}$	$(\frac{278}{1221}, -\frac{313}{1221}, \frac{62}{407}, -\frac{135}{407}, \frac{335}{1221}, -\frac{35}{1221}, -\frac{127}{1221}, \frac{81}{407}, \frac{521}{1221})$ $+ \frac{1}{1221}\sqrt{1422006}e^1 \otimes e_4$	{1238, 169, 2345689, 45}
9421:21	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{14}e^{12}, \frac{9}{187}\sqrt{14}e^{14} + \frac{3}{187}\sqrt{546}e^{23}, \frac{6}{187}\sqrt{14}e^{16},$ $\frac{3}{187}\sqrt{182}e^{18} + \frac{9}{187}\sqrt{70}e^{35}$	$(-\frac{21}{187}, \frac{54}{187}, -\frac{63}{187}, \frac{12}{187}, \frac{54}{187}, \frac{3}{187}, -\frac{9}{187}, \frac{12}{187}, -\frac{9}{187})$ $+ \frac{12}{187}\sqrt{77}e^2 \otimes e_9 + \frac{6}{187}\sqrt{273}e^5 \otimes e_7$	{123458, 1278, 13679, 14569}
9421:21	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{14}e^{12}, \frac{9}{187}\sqrt{14}e^{14} + \frac{3}{187}\sqrt{546}e^{23}, \frac{6}{187}\sqrt{14}e^{16},$ $\frac{3}{187}\sqrt{182}e^{18} + \frac{9}{187}\sqrt{70}e^{35}$	$(-\frac{21}{187}, \frac{54}{187}, -\frac{63}{187}, \frac{12}{187}, \frac{54}{187}, \frac{3}{187}, -\frac{9}{187}, \frac{12}{187}, -\frac{9}{187})$ $+ \frac{12}{187}\sqrt{77}e^2 \otimes e_9 - \frac{6}{187}\sqrt{273}e^5 \otimes e_7$	{123458, 1278, 13679, 14569}
9421:21	$0, 0, 0, 0, 0, \frac{4}{207}\sqrt{70}e^{12}, \frac{1}{207}\sqrt{6510}e^{14} + \frac{5}{207}\sqrt{42}e^{23}, \frac{2}{207}\sqrt{455}e^{16},$ $\frac{5}{207}\sqrt{42}e^{18} + \frac{1}{207}\sqrt{5530}e^{35}$	$(-\frac{7}{69}, \frac{2}{9}, -\frac{49}{207}, \frac{2}{23}, \frac{32}{207}, \frac{25}{207}, -\frac{1}{69}, \frac{4}{207}, -\frac{17}{207})$ $+ \frac{8}{207}\sqrt{105}e^4 \otimes e_9 + \frac{2}{207}\sqrt{105}e^5 \otimes e_7$	{1236789, 1345}
9421:21	$0, 0, 0, 0, 0, \frac{28}{297}\sqrt{10}e^{12}, \frac{7}{297}\sqrt{1230}e^{14} + \frac{7}{297}\sqrt{30}e^{23}, \frac{14}{297}\sqrt{65}e^{16},$ $\frac{7}{297}\sqrt{570}e^{18} + \frac{7}{297}\sqrt{1090}e^{35}$	$(\frac{7}{99}, \frac{34}{297}, -\frac{91}{297}, -\frac{26}{99}, \frac{188}{297}, \frac{5}{27}, -\frac{19}{99}, \frac{76}{297}, \frac{97}{297})$ $+ \frac{14}{99}\sqrt{70}e^5 \otimes e_7$	{2358, 2478, 34679, 569}
9421:21	$0, 0, 0, 0, 0, \frac{28}{297}\sqrt{10}e^{12}, \frac{7}{297}\sqrt{1230}e^{14} + \frac{7}{297}\sqrt{570}e^{23}, \frac{14}{297}\sqrt{65}e^{16},$ $\frac{7}{99}\sqrt{30}e^{18} + \frac{7}{297}\sqrt{1090}e^{35}$	$(-\frac{7}{33}, \frac{118}{297}, -\frac{7}{297}, \frac{58}{99}, -\frac{64}{297}, \frac{5}{27}, \frac{37}{99}, -\frac{8}{297}, -\frac{71}{297})$ $+ \frac{14}{99}\sqrt{70}e^4 \otimes e_9$	{12468, 1579, 2589, 467}
9421:21	$0, 0, 0, 0, 0, \frac{14}{211}\sqrt{69}e^{12}, \frac{21}{211}\sqrt{38}e^{14} + \frac{7}{211}\sqrt{390}e^{23}, \frac{7}{211}\sqrt{186}e^{16},$ $\frac{7}{211}\sqrt{390}e^{18} + \frac{63}{211}\sqrt{2}e^{35}$	$(-\frac{49}{211}, \frac{100}{211}, -\frac{56}{211}, \frac{93}{211}, \frac{9}{211}, \frac{51}{211}, \frac{44}{211}, \frac{2}{211}, -\frac{47}{211})$ $+ \frac{35}{211}\sqrt{42}e^2 \otimes e_9$	{12358, 12478, 134679, 1569}
9421:21	$0, 0, 0, 0, 0, \frac{248}{1861}\sqrt{11}e^{12}, \frac{93}{1861}\sqrt{66}e^{14} + \frac{31}{1861}\sqrt{418}e^{23},$ $\frac{62}{1861}\sqrt{286}e^{16}, \frac{31}{1861}\sqrt{902}e^{18} + \frac{31}{1861}\sqrt{22}e^{35}$	$(\frac{341}{1861}, -\frac{310}{1861}, \frac{31}{1861}, -\frac{620}{1861}, \frac{682}{1861}, \frac{31}{1861}, -\frac{279}{1861}, \frac{372}{1861}, \frac{713}{1861})$ $+ \frac{124}{1861}\sqrt{146}e^1 \otimes e_4 + \frac{62}{1861}\sqrt{221}e^5 \otimes e_7$	{12358, 1569}
9421:21	$0, 0, 0, 0, 0, \frac{3}{109}\sqrt{62}e^{12}, \frac{3}{109}\sqrt{222}e^{14} + \frac{6}{109}\sqrt{87}e^{23}, \frac{6}{109}\sqrt{26}e^{16},$ $\frac{33}{109}\sqrt{2}e^{18} + \frac{6}{109}\sqrt{3}e^{35}$	$(-\frac{12}{109}, \frac{18}{109}, \frac{9}{109}, \frac{39}{109}, -\frac{27}{109}, \frac{6}{109}, \frac{27}{109}, -\frac{6}{109}, -\frac{18}{109})$ $+ \frac{12}{109}\sqrt{29}e^2 \otimes e_9 + \frac{3}{109}\sqrt{318}e^3 \otimes e_5$	{1238, 124578}
9421:21	$0, 0, 0, 0, 0, \frac{26}{277}\sqrt{13}e^{12}, \frac{13}{277}\sqrt{106}e^{14} + \frac{13}{277}\sqrt{38}e^{23}, \frac{13}{277}\sqrt{14}e^{16},$ $\frac{26}{277}\sqrt{19}e^{18} + \frac{26}{277}\sqrt{21}e^{35}$	$(-\frac{26}{277}, \frac{39}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{104}{277}, -\frac{13}{277}, -\frac{39}{277})$ $+ \frac{13}{277}\sqrt{302}e^4 \otimes e_9 + \frac{26}{277}\sqrt{47}e^3 \otimes e_5$	{1379, 2389}
9421:21	$0, 0, 0, 0, 0, \frac{1}{147}\sqrt{6106}e^{12}, \frac{1}{147}\sqrt{9030}e^{14} + \frac{2}{147}\sqrt{6235}e^{23}, \frac{2}{147}\sqrt{1462}e^{16},$ $\frac{1}{147}\sqrt{10922}e^{18} + \frac{2}{147}\sqrt{2279}e^{35}$	$(\frac{20}{147}, -\frac{10}{49}, \frac{101}{147}, \frac{17}{49}, -\frac{71}{147}, -\frac{10}{147}, \frac{71}{147}, \frac{10}{147}, \frac{10}{49})$ $+ \frac{1}{147}\sqrt{42054}e^3 \otimes e_5$	{13478, 158, 234, 257}
9421:21	$0, 0, 0, 0, 0, \frac{30}{7141}\sqrt{914}e^{12}, \frac{45}{7141}\sqrt{562}e^{14} + \frac{15}{7141}\sqrt{3030}e^{23},$ $\frac{30}{7141}\sqrt{1106}e^{16}, \frac{15}{7141}\sqrt{5342}e^{18} + \frac{45}{7141}\sqrt{38}e^{35}$	$(-\frac{75}{7141}, \frac{330}{7141}, -\frac{705}{7141}, -\frac{300}{7141}, \frac{810}{7141}, \frac{255}{7141}, -\frac{375}{7141}, \frac{180}{7141}, \frac{105}{7141})$ $+ \frac{30}{7141}\sqrt{1517}e^2 \otimes e_9 + \frac{510}{7141}\sqrt{6}e^1 \otimes e_4$	{1238, 169}
9421:22	$0, 0, 0, 0, 0, \frac{84}{9733}\sqrt{283}e^{12}, \frac{21}{9733}\sqrt{9022}e^{34}, \frac{21}{9733}\sqrt{4838}e^{16},$ $\frac{21}{9733}\sqrt{5862}e^{18} + \frac{126}{9733}\sqrt{137}e^{23} + \frac{42}{9733}\sqrt{667}e^{45}$	$(-\frac{357}{9733}, \frac{1176}{9733}, -\frac{1071}{9733}, \frac{273}{9733}, -\frac{168}{9733}, \frac{819}{9733}, -\frac{798}{9733}, \frac{462}{9733}, \frac{105}{9733})$ $+ \frac{21}{9733}\sqrt{12566}e^1 \otimes e_7 + \frac{42}{9733}\sqrt{1238}e^4 \otimes e_5$	{1258, 357}
9421:22	$0, 0, 0, 0, 0, \frac{10}{1767}\sqrt{474}e^{12}, \frac{1}{1767}\sqrt{665970}e^{34}, \frac{1}{1767}\sqrt{465310}e^{16},$ $\frac{1}{1767}\sqrt{523770}e^{18} + \frac{2}{1767}\sqrt{101910}e^{23} + \frac{1}{1767}\sqrt{48585}e^{45}$	$(-\frac{25}{1767}, \frac{4}{31}, -\frac{25}{589}, -\frac{115}{589}, \frac{166}{589}, \frac{203}{1767}, -\frac{140}{589}, \frac{178}{1767}, \frac{51}{589})$ $+ \frac{5}{1767}\sqrt{47874}e^1 \otimes e_7$	{1258, 169, 236789, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:22	$0, 0, 0, 0, 0, \frac{67}{10581} \sqrt{446e^{12}}, \frac{67}{10581} \sqrt{7262e^{34}}, \frac{134}{10581} \sqrt{185e^{16}},$ $\frac{67}{10581} \sqrt{390e^{18}} + \frac{67}{10581} \sqrt{1390e^{23}} + \frac{67}{10581} \sqrt{2014e^{45}}$	$(-\frac{1072}{10581}, \frac{1273}{3527}, -\frac{1072}{3527}, \frac{2546}{10581}, -\frac{1943}{10581}, \frac{2747}{10581}, -\frac{670}{10581}, \frac{1675}{10581}, \frac{201}{3527})$ $+\frac{134}{10581} \sqrt{2030e^4} \otimes e_5 + \frac{67}{10581} \sqrt{10822e^2} \otimes e_7$	{1467, 23468}
9421:22	$0, 0, 0, 0, 0, \frac{1}{347} \sqrt{62418e^{12}}, \frac{1}{347} \sqrt{62418e^{34}}, \frac{2}{347} \sqrt{3030e^{16}},$ $\frac{9}{347} \sqrt{202e^{18}} + \frac{1}{347} \sqrt{39390e^{23}} + \frac{9}{347} \sqrt{202e^{45}}$	$(-\frac{36}{347}, \frac{179}{347}, -\frac{108}{347}, -\frac{16}{347}, \frac{87}{347}, \frac{143}{347}, -\frac{124}{347}, \frac{107}{347}, \frac{71}{347})$ $+\frac{1}{347} \sqrt{173922e^2} \otimes e_7$	{1289, 1467, 23468, 379}
9421:22	$0, 0, 0, 0, 0, \frac{38}{3449} \sqrt{2165e^{12}}, \frac{38}{3449} \sqrt{4990e^{34}}, \frac{152}{3449} \sqrt{65e^{16}},$ $\frac{76}{3449} \sqrt{110e^{18}} + \frac{38}{3449} \sqrt{2935e^{23}} + \frac{38}{3449} \sqrt{5210e^{45}}$	$(\frac{71}{3449}, \frac{778}{3449}, \frac{213}{3449}, -\frac{1416}{3449}, \frac{2407}{3449}, \frac{849}{3449}, -\frac{1203}{3449}, \frac{920}{3449}, \frac{991}{3449})$ $+\frac{190}{3449} \sqrt{565e^5} \otimes e_7$	{13456, 1367, 479, 59}
9421:22	$0, 0, 0, 0, 0, \frac{2}{3401} \sqrt{450470e^{12}}, \frac{20}{3401} \sqrt{27786e^{34}}, \frac{4}{3401} \sqrt{111565e^{16}},$ $\frac{2}{3401} \sqrt{688335e^{18}} + \frac{6}{3401} \sqrt{77885e^{23}} + \frac{2}{3401} \sqrt{475730e^{45}}$	$(-\frac{117}{3401}, \frac{755}{3401}, -\frac{351}{3401}, \frac{2307}{3401}, -\frac{1903}{3401}, \frac{638}{3401}, \frac{1956}{3401}, \frac{521}{3401}, \frac{404}{3401})$ $+\frac{10}{3401} \sqrt{232813e^4} \otimes e_5$	{12478, 1258, 34, 357}
9421:23	$0, 0, 0, 0, 0, \frac{51}{394} \sqrt{23e^{12}}, \frac{34}{197} \sqrt{5e^{13}} + \frac{17}{197} \sqrt{59e^{45}}, \frac{51}{394} \sqrt{2e^{16}},$ $\frac{17}{197} \sqrt{30e^{18}} + \frac{51}{394} \sqrt{23e^{23}}$	$(-\frac{51}{788}, \frac{187}{394}, -\frac{153}{788}, -\frac{51}{394}, -\frac{51}{394}, \frac{323}{394}, -\frac{51}{197}, \frac{68}{197}, \frac{221}{788})$ $+\frac{17}{394} \sqrt{654e^2} \otimes e_7$	{1467, 3479}
9421:23	$0, 0, 0, 0, 0, \frac{8}{791} \sqrt{597e^{12}}, \frac{2}{791} \sqrt{59899e^{13}} + \frac{4}{791} \sqrt{18109e^{45}},$ $\frac{2}{791} \sqrt{28258e^{16}}, \frac{2}{791} \sqrt{56715e^{18}} + \frac{2}{791} \sqrt{56715e^{23}}$	$(\frac{47}{791}, -\frac{16}{113}, \frac{141}{791}, \frac{61}{113}, -\frac{239}{791}, -\frac{65}{791}, \frac{188}{791}, -\frac{18}{791}, \frac{29}{791})$ $+\frac{6}{791} \sqrt{14726e^4} \otimes e_9$	{1269, 1458, 2345, 3689}
9421:23	$0, 0, 0, 0, 0, \frac{10}{63} \sqrt{6e^{12}}, \frac{20}{63} e^{13} + \frac{10}{63} \sqrt{10e^{45}}, \frac{10}{63} \sqrt{10e^{16}},$ $\frac{10}{63} \sqrt{6e^{18}} + \frac{10}{63} \sqrt{6e^{23}}$	$(\frac{4}{63}, \frac{1}{9}, \frac{4}{21}, \frac{58}{63}, -\frac{2}{3}, \frac{11}{63}, \frac{16}{63}, \frac{5}{21}, \frac{19}{63})$ $-\frac{100}{63} e^4 \otimes e_5$	{123478, 123578, 134679, 135679, 246789, 256789, 47, 57}
9421:23	$0, 0, 0, 0, 0, \frac{10}{63} \sqrt{6e^{12}}, \frac{20}{63} e^{13} + \frac{10}{63} \sqrt{10e^{45}}, \frac{10}{63} \sqrt{10e^{16}},$ $\frac{10}{63} \sqrt{6e^{18}} + \frac{10}{63} \sqrt{6e^{23}}$	$(\frac{4}{63}, \frac{1}{9}, \frac{4}{21}, \frac{58}{63}, -\frac{2}{3}, \frac{11}{63}, \frac{16}{63}, \frac{5}{21}, \frac{19}{63})$ $+\frac{100}{63} e^4 \otimes e_5$	{123478, 123578, 134679, 135679, 246789, 256789, 47, 57}
9421:23	$0, 0, 0, 0, 0, \frac{34}{359} \sqrt{23e^{12}}, \frac{136}{1077} \sqrt{5e^{13}} + \frac{68}{1077} \sqrt{59e^{45}}, \frac{34}{359} \sqrt{2e^{16}},$ $\frac{68}{1077} \sqrt{30e^{18}} + \frac{34}{359} \sqrt{23e^{23}}$	$(-\frac{17}{359}, \frac{374}{1077}, -\frac{51}{359}, \frac{187}{1077}, -\frac{391}{1077}, \frac{323}{1077}, -\frac{68}{359}, \frac{272}{1077}, \frac{221}{1077})$ $+\frac{34}{1077} \sqrt{654e^2} \otimes e_7 + \frac{578}{1077} e^4 \otimes e_5$	{1467, 1567, 3479, 3579}
9421:23	$0, 0, 0, 0, 0, \frac{34}{359} \sqrt{23e^{12}}, \frac{136}{1077} \sqrt{5e^{13}} + \frac{68}{1077} \sqrt{59e^{45}}, \frac{34}{359} \sqrt{2e^{16}},$ $\frac{68}{1077} \sqrt{30e^{18}} + \frac{34}{359} \sqrt{23e^{23}}$	$(-\frac{17}{359}, \frac{374}{1077}, -\frac{51}{359}, \frac{187}{1077}, -\frac{391}{1077}, \frac{323}{1077}, -\frac{68}{359}, \frac{272}{1077}, \frac{221}{1077})$ $+\frac{34}{1077} \sqrt{654e^2} \otimes e_7 - \frac{578}{1077} e^4 \otimes e_5$	{1467, 1567, 3479, 3579}
9421:23	$0, 0, 0, 0, 0, \frac{68}{3597} \sqrt{65e^{12}}, \frac{34}{3597} \sqrt{609e^{13}} + \frac{34}{3597} \sqrt{1402e^{45}},$ $\frac{136}{3597} \sqrt{21e^{16}}, \frac{34}{3597} \sqrt{463e^{18}} + \frac{34}{1199} \sqrt{129e^{23}}$	$(-\frac{17}{1199}, \frac{34}{327}, -\frac{51}{1199}, \frac{799}{3597}, -\frac{1003}{3597}, \frac{323}{3597}, -\frac{68}{1199}, \frac{272}{3597}, \frac{221}{3597})$ $+\frac{34}{3597} \sqrt{1802e^4} \otimes e_9 + \frac{68}{3597} \sqrt{349e^2} \otimes e_7$	{135679, 47}
9421:24	$0, 0, 0, 0, 0, \frac{12}{187} \sqrt{14e^{12}}, \frac{9}{187} \sqrt{14e^{14}} + \frac{3}{187} \sqrt{658e^{35}}, \frac{6}{187} \sqrt{14e^{16}},$ $\frac{3}{187} \sqrt{182e^{18}} + \frac{3}{187} \sqrt{518e^{23}}$	$(-\frac{21}{187}, \frac{54}{187}, -\frac{63}{187}, \frac{12}{187}, \frac{54}{187}, \frac{3}{17}, -\frac{9}{187}, \frac{12}{187}, -\frac{9}{187})$ $+\frac{12}{187} \sqrt{70e^5} \otimes e_9 + \frac{6}{187} \sqrt{301e^2} \otimes e_7$	{123458, 13679, 2689, 457}
9421:24	$0, 0, 0, 0, 0, \frac{12}{187} \sqrt{14e^{12}}, \frac{9}{187} \sqrt{14e^{14}} + \frac{3}{187} \sqrt{658e^{35}}, \frac{6}{187} \sqrt{14e^{16}},$ $\frac{3}{187} \sqrt{182e^{18}} + \frac{3}{187} \sqrt{518e^{23}}$	$(-\frac{21}{187}, \frac{54}{187}, -\frac{63}{187}, \frac{12}{187}, \frac{54}{187}, \frac{3}{17}, -\frac{9}{187}, \frac{12}{187}, -\frac{9}{187})$ $-\frac{12}{187} \sqrt{70e^5} \otimes e_9 + \frac{6}{187} \sqrt{301e^2} \otimes e_7$	{123458, 13679, 2689, 457}
9421:24	$0, 0, 0, 0, 0, \frac{2}{25} \sqrt{30e^{12}}, \frac{1}{25} \sqrt{130e^{14}} + \frac{3}{25} \sqrt{10e^{35}}, \frac{2}{25} \sqrt{30e^{16}},$ $\frac{1}{25} \sqrt{110e^{18}} + \frac{3}{25} \sqrt{10e^{23}}$	$(\frac{1}{25}, \frac{2}{25}, \frac{3}{25}, -\frac{4}{25}, -\frac{6}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{1}{5})$ $+\frac{2}{25} \sqrt{5e^2} \otimes e_7 + \frac{2}{5} \sqrt{2e^1} \otimes e_4$	{128, 2345689}
9421:24	$0, 0, 0, 0, 0, \frac{4}{203} \sqrt{269e^{12}}, \frac{36}{203} \sqrt{5e^{14}} + \frac{4}{203} \sqrt{278e^{35}}, \frac{8}{203} \sqrt{31e^{16}},$ $\frac{12}{203} \sqrt{3e^{18}} + \frac{4}{203} \sqrt{462e^{23}}$	$(\frac{12}{203}, -\frac{40}{203}, \frac{36}{203}, \frac{4}{29}, \frac{4}{203}, -\frac{4}{29}, \frac{40}{203}, -\frac{16}{203}, -\frac{4}{203})$ $+\frac{4}{203} \sqrt{295e^3} \otimes e_5 + \frac{88}{203} e^4 \otimes e_9$	{145, 369}
9421:24	$0, 0, 0, 0, 0, \frac{4}{211} \sqrt{1190e^{12}}, \frac{1}{211} \sqrt{30702e^{14}} + \frac{5}{211} \sqrt{714e^{35}}, \frac{6}{211} \sqrt{238e^{16}},$ $\frac{1}{211} \sqrt{3570e^{18}} + \frac{3}{211} \sqrt{3094e^{23}}$	$(-\frac{7}{211}, -\frac{16}{211}, -\frac{21}{211}, \frac{82}{211}, \frac{96}{211}, -\frac{23}{211}, \frac{75}{211}, -\frac{30}{211}, -\frac{37}{211})$ $+\frac{2}{211} \sqrt{11305e^4} \otimes e_9$	{123468, 13579, 2589, 467}
9421:24	$0, 0, 0, 0, 0, \frac{1}{7} \sqrt{10e^{12}}, \frac{2}{7} \sqrt{3e^{14}} + \frac{2}{7} \sqrt{2e^{35}}, \frac{1}{7} \sqrt{10e^{16}},$ $\frac{1}{7} \sqrt{10e^{18}} + \frac{1}{7} \sqrt{10e^{23}}$	$(0, \frac{1}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7})$ $-\frac{2}{7} e^3 \otimes e_5 + \frac{4}{7} e^1 \otimes e_4$	{128, 169, 2345689, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:24	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{2}{7}\sqrt{3}e^{14} + \frac{2}{7}\sqrt{2}e^{35}, \frac{1}{7}\sqrt{10}e^{16},$ $\frac{1}{7}\sqrt{10}e^{18} + \frac{1}{7}\sqrt{10}e^{23}$	$(0, \frac{1}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7})$ $+ \frac{2}{7}e^3 \otimes e_5 + \frac{4}{7}e^1 \otimes e_4$	{128, 169, 2345689, 345}
9421:24	$0, 0, 0, 0, 0, \frac{1}{325}\sqrt{214}e^{12}, \frac{1}{325}\sqrt{326}e^{14} + \frac{6}{325}\sqrt{7}e^{35}, \frac{2}{325}\sqrt{65}e^{16},$ $\frac{2}{325}\sqrt{78}e^{18} + \frac{1}{325}\sqrt{174}e^{23}$	$(-\frac{3}{325}, \frac{2}{65}, -\frac{9}{325}, -\frac{4}{325}, \frac{2}{325}, \frac{7}{325}, -\frac{7}{325}, \frac{4}{325}, \frac{1}{325})$ $+ \frac{14}{325}e^5 \otimes e_9 + \frac{1}{325}\sqrt{394}e^1 \otimes e_4$	{169, 345}
9421:24	$0, 0, 0, 0, 0, \frac{4}{1203}\sqrt{2877}e^{12}, \frac{1}{1203}\sqrt{561974}e^{14} + \frac{1}{1203}\sqrt{895706}e^{35},$ $\frac{2}{1203}\sqrt{79597}e^{16}, \frac{5}{1203}\sqrt{36442}e^{18} + \frac{1}{1203}\sqrt{182210}e^{23}$	$(-\frac{119}{1203}, \frac{134}{1203}, -\frac{119}{401}, \frac{166}{401}, \frac{736}{1203}, \frac{5}{401}, \frac{379}{1203}, -\frac{104}{1203}, -\frac{223}{1203})$ $+ \frac{2}{1203}\sqrt{478541}e^5 \otimes e_9$	{1269, 14578, 2345, 36789}
9421:24	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1110}e^{12}, \frac{2}{73}\sqrt{330}e^{14} + \frac{2}{73}\sqrt{210}e^{35}, \frac{3}{73}\sqrt{130}e^{16},$ $\frac{1}{73}\sqrt{1110}e^{18} + \frac{1}{73}\sqrt{930}e^{23}$	$(\frac{4}{73}, \frac{3}{73}, \frac{12}{73}, -\frac{11}{73}, -\frac{19}{73}, \frac{7}{73}, -\frac{7}{73}, \frac{11}{73}, \frac{15}{73})$ $+ \frac{8}{73}\sqrt{30}e^1 \otimes e_4$	{128, 169, 2345689, 345}
9421:24	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{166}e^{12}, \frac{2}{69}\sqrt{581}e^{14} + \frac{2}{69}\sqrt{498}e^{35}, \frac{1}{69}\sqrt{166}e^{16},$ $\frac{1}{23}\sqrt{166}e^{18} + \frac{1}{69}\sqrt{5478}e^{23}$	$(\frac{16}{69}, -\frac{13}{69}, \frac{16}{23}, -\frac{1}{23}, -\frac{35}{69}, \frac{1}{23}, \frac{13}{69}, \frac{19}{69}, \frac{35}{69})$ $+ \frac{2}{69}\sqrt{2407}e^3 \otimes e_5$	{1245689, 145, 238, 369}
9421:24	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{42}e^{12}, \frac{1}{47}\sqrt{1022}e^{14} + \frac{1}{47}\sqrt{434}e^{35}, \frac{2}{47}\sqrt{42}e^{16},$ $\frac{1}{47}\sqrt{714}e^{18} + \frac{1}{47}\sqrt{966}e^{23}$	$(-\frac{21}{235}, \frac{118}{235}, -\frac{63}{235}, -\frac{36}{235}, \frac{6}{235}, \frac{97}{235}, -\frac{57}{235}, \frac{76}{235}, \frac{11}{47})$ $+ \frac{6}{47}\sqrt{77}e^2 \otimes e_7$	{12345, 136789, 269, 4578}
9421:24	$0, 0, 0, 0, 0, \frac{6}{203}\sqrt{41}e^{12}, \frac{6}{203}\sqrt{239}e^{14} + \frac{18}{203}\sqrt{2}e^{35}, \frac{12}{203}\sqrt{14}e^{16},$ $\frac{6}{203}\sqrt{177}e^{18} + \frac{6}{203}\sqrt{322}e^{23}$	$(\frac{6}{203}, \frac{36}{203}, \frac{18}{203}, -\frac{6}{29}, -\frac{54}{203}, \frac{6}{29}, -\frac{36}{203}, \frac{48}{203}, \frac{54}{203})$ $+ \frac{12}{203}\sqrt{109}e^2 \otimes e_7 + \frac{6}{203}\sqrt{305}e^3 \otimes e_5$	{1234, 2569}
9421:25	$0, 0, 0, 0, 0, \frac{46}{4091}\sqrt{510}e^{12}, \frac{138}{4091}\sqrt{55}e^{14} + \frac{230}{4091}\sqrt{30}e^{35},$ $\frac{23}{4091}\sqrt{2694}e^{26}, \frac{69}{4091}\sqrt{322}e^{13} + \frac{46}{4091}\sqrt{745}e^{28}$	$(\frac{92}{4091}, \frac{184}{4091}, \frac{552}{4091}, -\frac{437}{4091}, -\frac{897}{4091}, \frac{276}{4091}, -\frac{345}{4091}, \frac{460}{4091}, \frac{644}{4091})$ $+ \frac{138}{4091}\sqrt{191}e^2 \otimes e_7 + \frac{230}{4091}e^1 \otimes e_4$	{136789, 347}
9421:25	$0, 0, 0, 0, 0, \frac{118}{8979}\sqrt{967}e^{12}, \frac{118}{8979}\sqrt{1045}e^{14} + \frac{236}{8979}\sqrt{174}e^{35},$ $\frac{59}{8979}\sqrt{518}e^{26}, \frac{59}{8979}\sqrt{5726}e^{13} + \frac{118}{8979}\sqrt{813}e^{28}$	$(-\frac{2242}{8979}, \frac{826}{2993}, \frac{826}{2993}, \frac{1239}{2993}, -\frac{1003}{8979}, -\frac{472}{2993}, \frac{1475}{2993}, -\frac{590}{8979}, \frac{236}{8979})$ $+ \frac{118}{8979}\sqrt{1586}e^3 \otimes e_5 + \frac{118}{8979}\sqrt{2515}e^4 \otimes e_9$	{134, 3689}
9421:25	$0, 0, 0, 0, 0, \frac{6}{131}\sqrt{22}e^{12}, \frac{6}{131}\sqrt{22}e^{14} + \frac{6}{131}\sqrt{33}e^{35}, \frac{3}{131}\sqrt{110}e^{26},$ $\frac{3}{131}\sqrt{154}e^{13} + \frac{6}{131}\sqrt{33}e^{28}$	$(\frac{12}{131}, 0, 0, -\frac{21}{131}, -\frac{9}{131}, \frac{12}{131}, -\frac{9}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{6}{131}\sqrt{17}e^3 \otimes e_5 + \frac{6}{131}\sqrt{71}e^2 \otimes e_7$	{1248, 269}
9421:25	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{70}e^{12}, \frac{2}{203}\sqrt{210}e^{14} + \frac{3}{203}\sqrt{70}e^{35}, \frac{1}{203}\sqrt{714}e^{26},$ $\frac{2}{29}\sqrt{3}e^{13} + \frac{5}{203}\sqrt{42}e^{28}$	$(-\frac{2}{29}, \frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{3}{29}, -\frac{1}{29}, 0, 0, \frac{1}{29})$ $- \frac{10}{203}\sqrt{7}e^4 \otimes e_9 + \frac{1}{203}\sqrt{1806}e^2 \otimes e_7$	{1248, 136789, 269, 347}
9421:25	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{70}e^{12}, \frac{2}{203}\sqrt{210}e^{14} + \frac{3}{203}\sqrt{70}e^{35}, \frac{1}{203}\sqrt{714}e^{26},$ $\frac{2}{29}\sqrt{3}e^{13} + \frac{5}{203}\sqrt{42}e^{28}$	$(-\frac{2}{29}, \frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{3}{29}, -\frac{1}{29}, 0, 0, \frac{1}{29})$ $+ \frac{10}{203}\sqrt{7}e^4 \otimes e_9 + \frac{1}{203}\sqrt{1806}e^2 \otimes e_7$	{1248, 136789, 269, 347}
9421:25	$0, 0, 0, 0, 0, \frac{68}{651}\sqrt{13}e^{12}, \frac{17}{651}\sqrt{185}e^{14} + \frac{51}{217}e^{35}, \frac{68}{651}\sqrt{2}e^{26},$ $\frac{34}{651}\sqrt{131}e^{13} + \frac{34}{651}\sqrt{53}e^{28}$	$(\frac{34}{217}, \frac{34}{651}, \frac{34}{217}, -\frac{187}{651}, -\frac{187}{651}, \frac{136}{651}, -\frac{85}{651}, \frac{170}{651}, \frac{68}{217})$ $+ \frac{17}{651}\sqrt{551}e^3 \otimes e_5 + \frac{17}{651}\sqrt{655}e^1 \otimes e_4$	{12589, 1368, 2456, 349}
9421:25	$0, 0, 0, 0, 0, \frac{68}{651}\sqrt{13}e^{12}, \frac{17}{651}\sqrt{185}e^{14} + \frac{51}{217}e^{35}, \frac{68}{651}\sqrt{2}e^{26},$ $\frac{34}{651}\sqrt{131}e^{13} + \frac{34}{651}\sqrt{53}e^{28}$	$(\frac{34}{217}, \frac{34}{651}, \frac{34}{217}, -\frac{187}{651}, -\frac{187}{651}, \frac{136}{651}, -\frac{85}{651}, \frac{170}{651}, \frac{68}{217})$ $- \frac{17}{651}\sqrt{551}e^3 \otimes e_5 + \frac{17}{651}\sqrt{655}e^1 \otimes e_4$	{12589, 1368, 2456, 349}
9421:25	$0, 0, 0, 0, 0, \frac{2}{299}\sqrt{23}e^{12}, \frac{2}{299}\sqrt{23}e^{14} + \frac{2}{299}\sqrt{53}e^{35}, \frac{5}{299}\sqrt{6}e^{26},$ $\frac{1}{299}\sqrt{130}e^{13} + \frac{2}{299}\sqrt{53}e^{28}$	$(\frac{8}{299}, -\frac{2}{299}, -\frac{6}{299}, -\frac{11}{299}, \frac{3}{299}, \frac{6}{299}, -\frac{3}{299}, \frac{4}{299}, \frac{2}{299})$ $+ \frac{2}{299}\sqrt{37}e^5 \otimes e_9 + \frac{2}{299}\sqrt{95}e^2 \otimes e_7$	{136789, 269}
9421:25	$0, 0, 0, 0, 0, \frac{2}{121}\sqrt{235}e^{12}, \frac{2}{121}\sqrt{235}e^{14} + \frac{1}{121}\sqrt{1410}e^{35}, \frac{1}{33}\sqrt{94}e^{26},$ $\frac{2}{363}\sqrt{3102}e^{13} + \frac{1}{121}\sqrt{1410}e^{28}$	$(\frac{2}{121}, \frac{17}{363}, \frac{17}{121}, -\frac{12}{121}, -\frac{27}{121}, \frac{23}{363}, -\frac{10}{121}, \frac{40}{363}, \frac{19}{121})$ $+ \frac{1}{363}\sqrt{29046}e^2 \otimes e_7$	{1248, 136789, 269, 347}
9421:25	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{2849}e^{12}, \frac{2}{323}\sqrt{2849}e^{14} + \frac{1}{323}\sqrt{17094}e^{35}, \frac{6}{323}\sqrt{407}e^{26},$ $\frac{1}{323}\sqrt{106634}e^{13} + \frac{1}{323}\sqrt{17094}e^{28}$	$(-\frac{49}{323}, \frac{71}{323}, \frac{213}{323}, \frac{4}{19}, -\frac{194}{323}, \frac{22}{323}, \frac{1}{17}, \frac{93}{323}, \frac{164}{323})$ $+ \frac{1}{323}\sqrt{218966}e^3 \otimes e_5$	{1236, 159, 23489, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:25	$0, 0, 0, 0, 0, \frac{2}{1627}\sqrt{451815e^{12}}, \frac{3}{1627}\sqrt{102610e^{14}} + \frac{2}{1627}\sqrt{4965e^{35}},$ $\frac{2}{1627}\sqrt{69510e^{26}}, \frac{3}{1627}\sqrt{201910e^{13}} + \frac{1}{1627}\sqrt{930110e^{28}}$	$(\frac{811}{1627}, -\frac{97}{1627}, -\frac{291}{1627}, -\frac{844}{1627}, \frac{258}{1627}, \frac{714}{1627}, -\frac{33}{1627}, \frac{617}{1627}, \frac{520}{1627})$ $+ \frac{25}{1627}\sqrt{7282e^1} \otimes e_4$	{12589, 1368, 2456, 349}
9421:25	$0, 0, 0, 0, 0, \frac{122}{8099}\sqrt{447e^{12}}, \frac{2928}{8099}e^{14} + \frac{122}{8099}\sqrt{606e^{35}}, \frac{61}{8099}\sqrt{570e^{26}},$ $\frac{183}{1157}\sqrt{10e^{13}} + \frac{122}{8099}\sqrt{265e^{28}}$	$(\frac{2318}{8099}, -\frac{122}{1157}, -\frac{366}{1157}, -\frac{1403}{8099}, \frac{3477}{8099}, \frac{1464}{8099}, \frac{915}{8099}, \frac{610}{8099}, -\frac{244}{8099})$ $+ \frac{122}{8099}\sqrt{1705e^1} \otimes e_4 + \frac{366}{8099}\sqrt{213e^5} \otimes e_9$	{12358, 1689}
9421:25	$0, 0, 0, 0, 0, \frac{9}{347}\sqrt{202e^{12}}, \frac{9}{347}\sqrt{202e^{14}} + \frac{1}{347}\sqrt{62418e^{35}}, \frac{2}{347}\sqrt{3030e^{26}},$ $\frac{1}{347}\sqrt{39390e^{13}} + \frac{1}{347}\sqrt{62418e^{28}}$	$(\frac{49}{347}, -\frac{36}{347}, -\frac{108}{347}, \frac{87}{347}, \frac{244}{347}, \frac{13}{347}, \frac{136}{347}, -\frac{23}{347}, -\frac{59}{347})$ $+ \frac{1}{347}\sqrt{173922e^5} \otimes e_9$	{1269, 135, 2578, 36789}
9421:25	$0, 0, 0, 0, 0, \frac{4}{1663}\sqrt{69890e^{12}}, \frac{8}{1663}\sqrt{25305e^{14}} + \frac{30}{1663}\sqrt{723e^{35}},$ $\frac{9}{1663}\sqrt{2410e^{26}}, \frac{1}{1663}\sqrt{918210e^{13}} + \frac{2}{1663}\sqrt{350655e^{28}}$	$(-\frac{346}{1663}, \frac{44}{1663}, \frac{132}{1663}, \frac{991}{1663}, \frac{513}{1663}, -\frac{302}{1663}, \frac{645}{1663}, -\frac{258}{1663}, -\frac{214}{1663})$ $+ \frac{10}{1663}\sqrt{34222e^4} \otimes e_9$	{12679, 134, 2478, 3689}
9421:26	$0, 0, 0, 0, 0, \frac{44}{1043}\sqrt{34e^{12}}, \frac{22}{1043}\sqrt{230e^{34}}, \frac{110}{1043}\sqrt{10e^{16}},$ $\frac{22}{1043}\sqrt{282e^{18}} + \frac{44}{1043}\sqrt{15e^{26}}$	$(\frac{22}{1043}, \frac{44}{1043}, \frac{11}{1043}, -\frac{33}{149}, \frac{352}{1043}, \frac{66}{1043}, -\frac{220}{1043}, \frac{88}{1043}, \frac{110}{1043})$ $+ \frac{22}{1043}\sqrt{570e^1} \otimes e_7 + \frac{242}{1043}e^3 \otimes e_4 + \frac{44}{1043}\sqrt{58e^5} \otimes e_9$	{236789, 246789}
9421:26	$0, 0, 0, 0, 0, \frac{96}{247}e^{12}, \frac{6}{247}\sqrt{230e^{34}}, \frac{12}{247}\sqrt{23e^{16}},$ $\frac{6}{247}\sqrt{78e^{18}} + \frac{6}{247}\sqrt{386e^{26}}$	$(\frac{6}{247}, \frac{12}{247}, -\frac{30}{247}, -\frac{30}{247}, \frac{102}{247}, \frac{18}{247}, -\frac{60}{247}, \frac{24}{247}, \frac{30}{247})$ $+ \frac{12}{247}\sqrt{145e^2} \otimes e_7 + \frac{6}{247}\sqrt{298e^5} \otimes e_9$	{136789, 3578}
9421:26	$0, 0, 0, 0, 0, \frac{16}{287}\sqrt{57e^{12}}, \frac{8}{287}\sqrt{57e^{34}}, \frac{4}{287}\sqrt{1577e^{16}},$ $\frac{4}{287}\sqrt{1273e^{18}} + \frac{76}{287}\sqrt{2e^{26}}$	$(\frac{13}{287}, \frac{26}{287}, \frac{100}{287}, -\frac{52}{287}, -\frac{139}{287}, \frac{39}{287}, \frac{48}{287}, \frac{52}{287}, \frac{65}{287})$ $+ \frac{152}{287}e^3 \otimes e_4 + \frac{20}{287}\sqrt{133e^1} \otimes e_5$	{12378, 12478, 2356789, 2456789}
9421:26	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57e^{12}}, \frac{60}{169}e^{34}, \frac{10}{169}\sqrt{17e^{16}},$ $\frac{10}{169}\sqrt{2e^{18}} + \frac{10}{169}\sqrt{31e^{26}}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{15}{169}, -\frac{15}{169}, -\frac{40}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{40}{169}, \frac{50}{169})$ $+ \frac{10}{169}\sqrt{61e^1} \otimes e_5 + \frac{10}{169}\sqrt{87e^2} \otimes e_7$	{123489, 1289, 234568, 2568}
9421:26	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{47e^{12}}, \frac{1}{111}\sqrt{10434e^{34}}, \frac{2}{37}\sqrt{47e^{16}},$ $\frac{2}{111}\sqrt{282e^{18}} + \frac{2}{111}\sqrt{282e^{26}}$	$(\frac{2}{37}, \frac{4}{37}, \frac{2}{37}, -\frac{5}{37}, -\frac{67}{111}, \frac{6}{111}, \frac{59}{111}, \frac{8}{37}, \frac{10}{37})$ $+ \frac{1}{111}\sqrt{25098e^3} \otimes e_5$	{13469, 13679, 145679, 1569, 34, 37, 457, 5}
9421:26	$0, 0, 0, 0, 0, \frac{38}{2677}\sqrt{771e^{12}}, \frac{76}{2677}\sqrt{159e^{34}}, \frac{114}{2677}\sqrt{69e^{16}},$ $\frac{76}{2677}\sqrt{91e^{18}} + \frac{114}{2677}\sqrt{5e^{26}}$	$(\frac{152}{2677}, \frac{304}{2677}, -\frac{285}{2677}, -\frac{285}{2677}, -\frac{418}{2677}, \frac{456}{2677}, -\frac{570}{2677}, \frac{608}{2677}, \frac{760}{2677})$ $+ \frac{114}{2677}\sqrt{173e^1} \otimes e_7 + \frac{38}{2677}\sqrt{769e^2} \otimes e_5$	{134569, 1569, 357}
9421:26	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{46e^{12}}, \frac{1}{177}\sqrt{8142e^{34}}, \frac{1}{59}\sqrt{46e^{16}},$ $\frac{1}{177}\sqrt{4002e^{18}} + \frac{1}{177}\sqrt{4002e^{26}}$	$(-\frac{1}{59}, -\frac{2}{59}, \frac{25}{177}, \frac{18}{59}, -\frac{44}{177}, -\frac{3}{59}, \frac{79}{177}, -\frac{4}{59}, -\frac{5}{59})$ $+ \frac{1}{59}\sqrt{1426e^4} \otimes e_9 + \frac{8}{177}\sqrt{138e^3} \otimes e_5$	{123468, 1245678, 23789, 2589}
9421:26	$0, 0, 0, 0, 0, \frac{4}{121}\sqrt{47e^{12}}, \frac{2}{363}\sqrt{10434e^{34}}, \frac{4}{121}\sqrt{47e^{16}},$ $\frac{4}{363}\sqrt{282e^{18}} + \frac{4}{363}\sqrt{282e^{26}}$	$(\frac{4}{121}, \frac{8}{121}, \frac{37}{121}, -\frac{57}{121}, \frac{74}{121}, \frac{12}{121}, -\frac{20}{121}, \frac{16}{121}, \frac{20}{121})$ $+ \frac{2}{363}\sqrt{25098e^5} \otimes e_7 + \frac{94}{121}e^3 \otimes e_4$	{13679, 14679, 37, 47}
9421:26	$0, 0, 0, 0, 0, \frac{1}{463}\sqrt{13973e^{12}}, \frac{1}{463}\sqrt{26219e^{34}}, \frac{1}{463}\sqrt{27318e^{16}},$ $\frac{1}{463}\sqrt{42861e^{18}} + \frac{3}{463}\sqrt{314e^{26}}$	$(\frac{2}{463}, \frac{4}{463}, \frac{167}{463}, -\frac{26}{463}, -\frac{155}{463}, \frac{6}{463}, \frac{141}{463}, \frac{8}{463}, \frac{10}{463})$ $+ \frac{1}{463}\sqrt{60602e^3} \otimes e_9 + \frac{5}{463}\sqrt{2669e^1} \otimes e_5$	{14679, 169, 345, 357}
9421:26	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{46e^{12}}, \frac{1}{177}\sqrt{8142e^{34}}, \frac{1}{59}\sqrt{46e^{16}},$ $\frac{1}{177}\sqrt{4002e^{18}} + \frac{1}{177}\sqrt{4002e^{26}}$	$(-\frac{1}{59}, -\frac{2}{59}, \frac{18}{59}, -\frac{13}{59}, \frac{28}{59}, -\frac{3}{59}, \frac{5}{59}, -\frac{4}{59}, -\frac{5}{59})$ $+ \frac{1}{59}\sqrt{1426e^3} \otimes e_9 + \frac{8}{177}\sqrt{138e^5} \otimes e_7$	{1234568, 123678, 24789, 2589}
9421:26	$0, 0, 0, 0, 0, \frac{1}{113}\sqrt{542e^{12}}, \frac{1}{339}\sqrt{61246e^{34}}, \frac{1}{113}\sqrt{542e^{16}},$ $\frac{1}{339}\sqrt{47154e^{18}} + \frac{1}{339}\sqrt{47154e^{26}}$	$(-\frac{3}{113}, -\frac{6}{113}, \frac{2}{339}, -\frac{53}{113}, \frac{20}{113}, -\frac{9}{113}, \frac{173}{339}, -\frac{12}{113}, -\frac{15}{113})$ $+ \frac{1}{113}\sqrt{16802e^3} \otimes e_9$	{1234568, 123468, 1235678, 123678, 245789, 24789, 2589, 289}
9421:26	$0, 0, 0, 0, 0, \frac{24}{3941}\sqrt{3385e^{12}}, \frac{4}{3941}\sqrt{123891e^{34}}, \frac{2}{3941}\sqrt{221379e^{16}},$ $\frac{4}{3941}\sqrt{3385e^{18}} + \frac{4}{3941}\sqrt{239658e^{26}}$	$(\frac{22}{3941}, \frac{44}{3941}, \frac{1464}{3941}, -\frac{297}{3941}, -\frac{1310}{3941}, \frac{66}{3941}, \frac{1167}{3941}, \frac{88}{3941}, \frac{110}{3941})$ $+ \frac{2}{3941}\sqrt{1181365e^2} \otimes e_5 + \frac{2}{3941}\sqrt{1192197e^3} \otimes e_9$	{12479, 129, 2346, 2367}
9421:26	$0, 0, 0, 0, 0, \frac{22}{461}\sqrt{34e^{12}}, \frac{11}{461}\sqrt{230e^{34}}, \frac{55}{461}\sqrt{10e^{16}},$ $\frac{11}{461}\sqrt{282e^{18}} + \frac{22}{461}\sqrt{15e^{26}}$	$(\frac{11}{461}, \frac{22}{461}, -\frac{55}{461}, -\frac{55}{461}, \frac{176}{461}, \frac{33}{461}, -\frac{110}{461}, \frac{44}{461}, \frac{55}{461})$ $+ \frac{11}{461}\sqrt{570e^1} \otimes e_7 + \frac{22}{461}\sqrt{58e^5} \otimes e_9$	{123458, 1258, 236789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:26	$0, 0, 0, 0, 0, \frac{2}{793}\sqrt{10538e^{12}}, \frac{1}{2379}\sqrt{759694e^{34}}, \frac{1}{2379}\sqrt{658146e^{16}},$ $\frac{1}{2379}\sqrt{531690e^{18}} + \frac{2}{2379}\sqrt{76161e^{26}}$	$(\frac{35}{793}, \frac{70}{793}, \frac{131}{2379}, -\frac{505}{2379}, -\frac{116}{793}, \frac{105}{793}, -\frac{374}{2379}, \frac{140}{793}, \frac{175}{793})$ $+ \frac{1}{2379}\sqrt{1393890e^1} \otimes e_7 + \frac{2}{2379}\sqrt{152322e^3} \otimes e_5$	{12348, 1258, 236789, 2456789}
9421:26	$0, 0, 0, 0, 0, \frac{2}{277}\sqrt{8018e^{12}}, \frac{2}{831}\sqrt{58447e^{34}}, \frac{6}{277}\sqrt{211e^{16}},$ $\frac{2}{831}\sqrt{41145e^{18}} + \frac{2}{277}\sqrt{8651e^{26}}$	$(\frac{20}{277}, \frac{40}{277}, -\frac{151}{831}, -\frac{151}{831}, \frac{42}{277}, \frac{60}{277}, -\frac{302}{831}, \frac{80}{277}, \frac{100}{277})$ $+ \frac{2}{831}\sqrt{148755e^2} \otimes e_7$	{1356789, 136789, 3578, 378}
9421:26	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{47e^{12}}, \frac{1}{111}\sqrt{10434e^{34}}, \frac{2}{37}\sqrt{47e^{16}},$ $\frac{2}{111}\sqrt{282e^{18}} + \frac{2}{111}\sqrt{282e^{26}}$	$(\frac{2}{37}, \frac{4}{37}, -\frac{5}{37}, -\frac{5}{37}, \frac{1}{37}, \frac{6}{37}, -\frac{10}{37}, \frac{8}{37}, \frac{10}{37})$ $+ \frac{1}{111}\sqrt{25098e^5} \otimes e_7$	{134569, 13679, 1569, 345, 37, 5}
9421:26	$0, 0, 0, 0, 0, \frac{2}{1607}\sqrt{441870e^{12}}, \frac{2}{1607}\sqrt{56238e^{34}}, \frac{3}{1607}\sqrt{45526e^{16}},$ $\frac{1}{1607}\sqrt{998894e^{18}} + \frac{3}{1607}\sqrt{211562e^{26}}$	$(\frac{118}{1607}, \frac{236}{1607}, \frac{168}{1607}, \frac{168}{1607}, -\frac{1103}{1607}, \frac{354}{1607}, \frac{336}{1607}, \frac{472}{1607}, \frac{590}{1607})$ $+ \frac{1}{1607}\sqrt{3628690e^2} \otimes e_5$	{1345689, 1356789, 15689, 3458, 3578, 58}
9421:26	$0, 0, 0, 0, 0, \frac{2}{581}\sqrt{15202e^{12}}, \frac{1}{1743}\sqrt{802942e^{34}}, \frac{1}{1743}\sqrt{949434e^{16}},$ $\frac{1}{1743}\sqrt{767010e^{18}} + \frac{2}{1743}\sqrt{109869e^{26}}$	$(\frac{5}{83}, \frac{10}{83}, -\frac{293}{1743}, -\frac{293}{1743}, \frac{96}{1743}, \frac{15}{83}, -\frac{586}{1743}, \frac{20}{83}, \frac{25}{83})$ $+ \frac{1}{1743}\sqrt{2010810e^1} \otimes e_7$	{123458, 12348, 1258, 128, 2356789, 236789}
9421:26	$0, 0, 0, 0, 0, \frac{3}{521}\sqrt{8018e^{12}}, \frac{1}{521}\sqrt{58447e^{34}}, \frac{9}{521}\sqrt{211e^{16}},$ $\frac{1}{521}\sqrt{41145e^{18}} + \frac{3}{521}\sqrt{8651e^{26}}$	$(\frac{30}{521}, \frac{60}{521}, \frac{30}{521}, -\frac{181}{521}, \frac{63}{521}, \frac{90}{521}, -\frac{151}{521}, \frac{120}{521}, \frac{150}{521})$ $+ \frac{1}{521}\sqrt{148755e^2} \otimes e_7 - \frac{211}{521}e^3 \otimes e_4$	{1356789, 136789, 1456789, 146789, 3578, 378, 4578, 478}
9421:26	$0, 0, 0, 0, 0, \frac{3}{521}\sqrt{8018e^{12}}, \frac{1}{521}\sqrt{58447e^{34}}, \frac{9}{521}\sqrt{211e^{16}},$ $\frac{1}{521}\sqrt{41145e^{18}} + \frac{3}{521}\sqrt{8651e^{26}}$	$(\frac{30}{521}, \frac{60}{521}, \frac{30}{521}, -\frac{181}{521}, \frac{63}{521}, \frac{90}{521}, -\frac{151}{521}, \frac{120}{521}, \frac{150}{521})$ $+ \frac{1}{521}\sqrt{148755e^2} \otimes e_7 + \frac{211}{521}e^3 \otimes e_4$	{1356789, 136789, 1456789, 146789, 3578, 378, 4578, 478}
9421:26	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{23e^{12}}, \frac{1}{64}\sqrt{230e^{34}}, \frac{1}{32}\sqrt{23e^{16}},$ $\frac{1}{64}\sqrt{966e^{18}} + \frac{1}{64}\sqrt{966e^{26}}$	$(-\frac{1}{64}, -\frac{1}{32}, \frac{7}{16}, -\frac{9}{32}, \frac{41}{32}, \frac{64}{32}, -\frac{3}{64}, \frac{5}{32}, -\frac{1}{16}, -\frac{5}{64})$ $+ \frac{1}{64}\sqrt{3082e^5} \otimes e_9 + \frac{23}{32}e^3 \otimes e_4$	{1235678, 1245678, 23789, 24789}
9421:26	$0, 0, 0, 0, 0, \frac{12}{4177}\sqrt{15202e^{12}}, \frac{2}{4177}\sqrt{802942e^{34}}, \frac{2}{4177}\sqrt{949434e^{16}},$ $\frac{2}{4177}\sqrt{767010e^{18}} + \frac{4}{4177}\sqrt{109869e^{26}}$	$(\frac{210}{4177}, \frac{420}{4177}, \frac{105}{4177}, -\frac{1277}{4177}, \frac{576}{4177}, \frac{630}{4177}, -\frac{1172}{4177}, \frac{840}{4177}, \frac{1050}{4177})$ $+ \frac{1382}{4177}e^3 \otimes e_4 + \frac{4}{4177}\sqrt{2010810e^1} \otimes e_7$	{2356789, 236789, 2456789, 246789}
9421:26	$0, 0, 0, 0, 0, \frac{4}{4553}\sqrt{441870e^{12}}, \frac{4}{4553}\sqrt{56238e^{34}}, \frac{6}{4553}\sqrt{45526e^{16}},$ $\frac{2}{4553}\sqrt{998894e^{18}} + \frac{6}{4553}\sqrt{211562e^{26}}$	$(\frac{236}{4553}, \frac{472}{4553}, \frac{1675}{4553}, -\frac{1003}{4553}, -\frac{2206}{4553}, \frac{708}{4553}, \frac{672}{4553}, \frac{944}{4553}, \frac{1180}{4553})$ $+ \frac{2678}{4553}e^3 \otimes e_4 + \frac{2}{4553}\sqrt{3628690e^2} \otimes e_5$	{1356789, 1456789, 3578, 4578}
9421:26	$0, 0, 0, 0, 0, \frac{48}{161}\sqrt{2e^{12}}, \frac{16}{161}\sqrt{22e^{34}}, \frac{48}{161}\sqrt{2e^{16}},$ $\frac{16}{161}\sqrt{3e^{18}} + \frac{16}{161}\sqrt{3e^{26}}$	$(\frac{9}{161}, \frac{18}{161}, \frac{150}{161}, -\frac{106}{161}, \frac{33}{161}, \frac{27}{161}, \frac{44}{161}, \frac{36}{161}, \frac{45}{161})$ $+ \frac{256}{161}e^3 \otimes e_4$	{135679, 13679, 145679, 14679, 357, 37, 457, 47}
9421:26	$0, 0, 0, 0, 0, \frac{16}{211}\sqrt{57e^{12}}, \frac{8}{211}\sqrt{57e^{34}}, \frac{4}{211}\sqrt{1577e^{16}},$ $\frac{4}{211}\sqrt{1273e^{18}} + \frac{76}{211}\sqrt{2e^{26}}$	$(\frac{13}{211}, \frac{26}{211}, \frac{24}{211}, \frac{24}{211}, -\frac{139}{211}, \frac{39}{211}, \frac{48}{211}, \frac{52}{211}, \frac{65}{211})$ $+ \frac{20}{211}\sqrt{133e^1} \otimes e_5$	{12348, 12378, 128, 2345689, 2356789, 25689}
9421:26	$0, 0, 0, 0, 0, \frac{4}{4269}\sqrt{23739e^{12}}, \frac{2}{4269}\sqrt{274639e^{34}}, \frac{2}{1423}\sqrt{20265e^{16}},$ $\frac{4}{4269}\sqrt{61953e^{18}} + \frac{10}{4269}\sqrt{579e^{26}}$	$(\frac{13}{1423}, \frac{26}{1423}, \frac{581}{4269}, -\frac{928}{4269}, \frac{165}{1423}, \frac{39}{1423}, -\frac{347}{4269}, \frac{52}{1423}, \frac{65}{1423})$ $+ \frac{2}{4269}\sqrt{291237e^3} \otimes e_9 + \frac{2}{4269}\sqrt{437145e^1} \otimes e_7$	{123458, 12348, 2456789, 246789}
9421:26	$0, 0, 0, 0, 0, \frac{96}{283}e^{12}, \frac{6}{283}\sqrt{230e^{34}}, \frac{12}{283}\sqrt{23e^{16}},$ $\frac{6}{283}\sqrt{78e^{18}} + \frac{6}{283}\sqrt{386e^{26}}$	$(\frac{6}{283}, \frac{12}{283}, \frac{6}{283}, -\frac{66}{283}, \frac{102}{283}, \frac{18}{283}, -\frac{60}{283}, \frac{24}{283}, \frac{30}{283})$ $+ \frac{12}{283}\sqrt{145e^2} \otimes e_7 + \frac{6}{283}\sqrt{298e^5} \otimes e_9 - \frac{72}{283}e^3 \otimes e_4$	{136789, 146789, 3578, 4578}
9421:26	$0, 0, 0, 0, 0, \frac{96}{283}e^{12}, \frac{6}{283}\sqrt{230e^{34}}, \frac{12}{283}\sqrt{23e^{16}},$ $\frac{6}{283}\sqrt{78e^{18}} + \frac{6}{283}\sqrt{386e^{26}}$	$(\frac{6}{283}, \frac{12}{283}, \frac{6}{283}, -\frac{66}{283}, \frac{102}{283}, \frac{18}{283}, -\frac{60}{283}, \frac{24}{283}, \frac{30}{283})$ $+ \frac{12}{283}\sqrt{145e^2} \otimes e_7 + \frac{6}{283}\sqrt{298e^5} \otimes e_9 + \frac{72}{283}e^3 \otimes e_4$	{136789, 146789, 3578, 4578}
9421:26	$0, 0, 0, 0, 0, \frac{6}{751}\sqrt{681e^{12}}, \frac{1}{2253}\sqrt{340954e^{34}}, \frac{1}{751}\sqrt{10442e^{16}},$ $\frac{2}{2253}\sqrt{8853e^{18}} + \frac{1}{751}\sqrt{10669e^{26}}$	$(\frac{8}{751}, \frac{16}{751}, \frac{347}{2253}, -\frac{526}{2253}, \frac{75}{751}, \frac{24}{751}, -\frac{179}{2253}, \frac{32}{751}, \frac{40}{751})$ $+ \frac{1}{2253}\sqrt{524370e^2} \otimes e_7 + \frac{1}{751}\sqrt{44038e^3} \otimes e_9$	{1456789, 146789, 3578, 378}
9421:26	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{23e^{12}}, \frac{1}{41}\sqrt{230e^{34}}, \frac{2}{41}\sqrt{23e^{16}},$ $\frac{1}{41}\sqrt{966e^{18}} + \frac{1}{41}\sqrt{966e^{26}}$	$(-\frac{1}{41}, -\frac{2}{41}, \frac{5}{41}, \frac{5}{41}, 1, -\frac{3}{41}, \frac{10}{41}, -\frac{4}{41}, -\frac{5}{41})$ $+ \frac{1}{41}\sqrt{3082e^5} \otimes e_9$	{1234568, 1235678, 12568, 23489, 23789, 289}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:26	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{23218e^{12}}, \frac{1}{2361}\sqrt{961714e^{34}}, \frac{6}{787}\sqrt{611e^{16}},$ $\frac{26}{2361}\sqrt{705e^{18}} + \frac{2}{787}\sqrt{25051e^{26}}$	$(\frac{40}{787}, \frac{80}{787}, \frac{164}{2361}, -\frac{535}{2361}, -\frac{149}{787}, \frac{120}{787}, -\frac{371}{2361}, \frac{160}{787}, \frac{200}{787})$ $+ \frac{1}{2361}\sqrt{854178e^3} \otimes e_5 + \frac{94}{2361}\sqrt{195e^2} \otimes e_7$	{136789, 1456789, 378, 4578}
9421:27	$0, 0, 0, 0, 0, \frac{6}{689}\sqrt{2105e^{12}}, \frac{2}{689}\sqrt{33259e^{13}} + \frac{2}{689}\sqrt{120406e^{24}},$ $\frac{4}{689}\sqrt{7157e^{16}}, \frac{14}{689}\sqrt{842e^{18}} + \frac{6}{689}\sqrt{2105e^{23}}$	$(\frac{83}{689}, -\frac{71}{689}, \frac{249}{689}, \frac{31}{53}, -\frac{439}{689}, \frac{12}{689}, \frac{332}{689}, \frac{95}{689}, \frac{178}{689})$ $+ \frac{4}{689}\sqrt{59361e^4} \otimes e_5$	{1235679, 13478, 257, 46789}
9421:27	$0, 0, 0, 0, 0, \frac{28}{1149}\sqrt{282e^{12}}, \frac{28}{1149}\sqrt{230e^{13}} + \frac{28}{1149}\sqrt{146e^{24}},$ $\frac{28}{1149}\sqrt{10e^{16}}, \frac{28}{1149}\sqrt{178e^{18}} + \frac{28}{1149}\sqrt{282e^{23}}$	$(-\frac{14}{383}, \frac{308}{1149}, -\frac{42}{383}, -\frac{476}{1149}, \frac{616}{1149}, \frac{266}{1149}, -\frac{56}{383}, \frac{224}{1149}, \frac{182}{1149})$ $+ \frac{168}{383}\sqrt{3e^5} \otimes e_7 + \frac{28}{1149}\sqrt{1066e^2} \otimes e_4$	{12789, 1467, 23678, 3479}
9421:27	$0, 0, 0, 0, 0, \frac{28}{1149}\sqrt{282e^{12}}, \frac{28}{1149}\sqrt{230e^{13}} + \frac{28}{1149}\sqrt{146e^{24}},$ $\frac{28}{1149}\sqrt{10e^{16}}, \frac{28}{1149}\sqrt{178e^{18}} + \frac{28}{1149}\sqrt{282e^{23}}$	$(-\frac{14}{383}, \frac{308}{1149}, -\frac{42}{383}, -\frac{476}{1149}, \frac{616}{1149}, \frac{266}{1149}, -\frac{56}{383}, \frac{224}{1149}, \frac{182}{1149})$ $+ \frac{168}{383}\sqrt{3e^5} \otimes e_7 - \frac{28}{1149}\sqrt{1066e^2} \otimes e_4$	{12789, 1467, 23678, 3479}
9421:27	$0, 0, 0, 0, 0, \frac{41}{4869}\sqrt{46e^{12}}, \frac{82}{4869}\sqrt{241e^{13}} + \frac{41}{541}\sqrt{26e^{24}},$ $\frac{82}{4869}\sqrt{505e^{16}}, \frac{82}{1623}\sqrt{95e^{18}} + \frac{82}{1623}\sqrt{11e^{23}}$	$(\frac{287}{4869}, -\frac{697}{4869}, \frac{287}{1623}, \frac{205}{541}, -\frac{1394}{4869}, -\frac{410}{4869}, \frac{1148}{4869}, -\frac{41}{1623}, \frac{164}{4869})$ $+ \frac{41}{1623}\sqrt{438e^1} \otimes e_5 + \frac{41}{4869}\sqrt{4642e^4} \otimes e_9$	{256789, 457}
9421:27	$0, 0, 0, 0, 0, \frac{18}{1163}\sqrt{465e^{12}}, \frac{90}{1163}\sqrt{21e^{13}} + \frac{72}{1163}\sqrt{42e^{24}},$ $\frac{54}{1163}\sqrt{10e^{16}}, \frac{72}{1163}\sqrt{42e^{18}} + \frac{18}{1163}\sqrt{1281e^{23}}$	$(\frac{9}{1163}, \frac{261}{1163}, \frac{27}{1163}, -\frac{225}{1163}, -\frac{459}{1163}, \frac{270}{1163}, \frac{36}{1163}, \frac{279}{1163}, \frac{288}{1163})$ $+ \frac{54}{1163}\sqrt{178e^2} \otimes e_4 + \frac{72}{1163}\sqrt{102e^3} \otimes e_5$	{123, 134689, 2569, 458}
9421:27	$0, 0, 0, 0, 0, \frac{18}{1163}\sqrt{465e^{12}}, \frac{90}{1163}\sqrt{21e^{13}} + \frac{72}{1163}\sqrt{42e^{24}},$ $\frac{54}{1163}\sqrt{10e^{16}}, \frac{72}{1163}\sqrt{42e^{18}} + \frac{18}{1163}\sqrt{1281e^{23}}$	$(\frac{9}{1163}, \frac{261}{1163}, \frac{27}{1163}, -\frac{225}{1163}, -\frac{459}{1163}, \frac{270}{1163}, \frac{36}{1163}, \frac{279}{1163}, \frac{288}{1163})$ $- \frac{54}{1163}\sqrt{178e^2} \otimes e_4 + \frac{72}{1163}\sqrt{102e^3} \otimes e_5$	{123, 134689, 2569, 458}
9421:27	$0, 0, 0, 0, 0, \frac{5}{234}\sqrt{14e^{12}}, \frac{40}{117}e^{13} + \frac{5}{234}\sqrt{327e^{24}}, \frac{5}{234}\sqrt{115e^{16}},$ $\frac{5}{117}\sqrt{51e^{18}} + \frac{25}{78}e^{23}$	$(\frac{5}{117}, -\frac{10}{117}, \frac{5}{39}, \frac{10}{39}, -\frac{35}{117}, -\frac{5}{117}, \frac{20}{117}, 0, \frac{5}{117})$ $+ \frac{5}{234}\sqrt{478e^4} \otimes e_9 + \frac{5}{78}\sqrt{41e^2} \otimes e_5$	{234, 35689}
9421:27	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{2145e^{12}}, \frac{2}{111}\sqrt{715e^{13}} + \frac{8}{111}\sqrt{55e^{24}}, \frac{10}{111}\sqrt{22e^{16}},$ $\frac{8}{111}\sqrt{55e^{18}} + \frac{2}{111}\sqrt{2145e^{23}}$	$(-\frac{1}{37}, \frac{49}{111}, -\frac{3}{37}, -\frac{61}{111}, \frac{17}{111}, \frac{46}{111}, -\frac{4}{37}, \frac{43}{111}, \frac{40}{111})$ $+ \frac{2}{111}\sqrt{5170e^2} \otimes e_4$	{12589, 1289, 1456, 146, 23568, 2368, 3459, 349}
9421:27	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{2145e^{12}}, \frac{2}{111}\sqrt{715e^{13}} + \frac{8}{111}\sqrt{55e^{24}}, \frac{10}{111}\sqrt{22e^{16}},$ $\frac{8}{111}\sqrt{55e^{18}} + \frac{2}{111}\sqrt{2145e^{23}}$	$(-\frac{1}{37}, \frac{49}{111}, -\frac{3}{37}, -\frac{61}{111}, \frac{17}{111}, \frac{46}{111}, -\frac{4}{37}, \frac{43}{111}, \frac{40}{111})$ $- \frac{2}{111}\sqrt{5170e^2} \otimes e_4$	{12589, 1289, 1456, 146, 23568, 2368, 3459, 349}
9421:27	$0, 0, 0, 0, 0, \frac{50}{621}\sqrt{39e^{12}}, \frac{10}{621}\sqrt{65e^{13}} + \frac{100}{621}\sqrt{3e^{24}}, \frac{10}{621}\sqrt{610e^{16}},$ $\frac{20}{621}\sqrt{55e^{18}} + \frac{10}{621}\sqrt{195e^{23}}$	$(\frac{5}{621}, \frac{5}{23}, \frac{5}{207}, -\frac{5}{27}, -\frac{245}{621}, \frac{140}{621}, \frac{20}{621}, \frac{145}{621}, \frac{50}{207})$ $- \frac{110}{621}\sqrt{10e^2} \otimes e_4 + \frac{20}{621}\sqrt{390e^1} \otimes e_5$	{1238, 13469, 25689, 45}
9421:27	$0, 0, 0, 0, 0, \frac{50}{621}\sqrt{39e^{12}}, \frac{10}{621}\sqrt{65e^{13}} + \frac{100}{621}\sqrt{3e^{24}}, \frac{10}{621}\sqrt{610e^{16}},$ $\frac{20}{621}\sqrt{55e^{18}} + \frac{10}{621}\sqrt{195e^{23}}$	$(\frac{5}{621}, \frac{5}{23}, \frac{5}{207}, -\frac{5}{27}, -\frac{245}{621}, \frac{140}{621}, \frac{20}{621}, \frac{145}{621}, \frac{50}{207})$ $+ \frac{110}{621}\sqrt{10e^2} \otimes e_4 + \frac{20}{621}\sqrt{390e^1} \otimes e_5$	{1238, 13469, 25689, 45}
9421:27	$0, 0, 0, 0, 0, \frac{2}{665}\sqrt{29442e^{12}}, \frac{1}{665}\sqrt{301430e^{13}} + \frac{2}{665}\sqrt{72203e^{24}},$ $\frac{1}{665}\sqrt{51874e^{16}}, \frac{1}{665}\sqrt{26638e^{18}} + \frac{2}{665}\sqrt{29442e^{23}}$	$(-\frac{9}{665}, \frac{66}{665}, -\frac{27}{665}, -\frac{102}{665}, 1, \frac{3}{35}, -\frac{36}{665}, \frac{48}{665}, \frac{39}{665})$ $+ \frac{1}{665}\sqrt{786522e^5} \otimes e_7$	{12678, 1479, 23789, 3467}
9421:27	$0, 0, 0, 0, 0, \frac{60}{1531}\sqrt{102e^{12}}, \frac{30}{1531}\sqrt{69e^{13}} + \frac{15}{1531}\sqrt{1830e^{24}},$ $\frac{45}{1531}\sqrt{46e^{16}}, \frac{15}{1531}\sqrt{1830e^{18}} + \frac{15}{1531}\sqrt{2478e^{23}}$	$(\frac{105}{1531}, -\frac{285}{1531}, \frac{315}{1531}, \frac{705}{1531}, -\frac{360}{1531}, -\frac{180}{1531}, \frac{420}{1531}, -\frac{75}{1531}, \frac{30}{1531})$ $+ \frac{15}{1531}\sqrt{3126e^3} \otimes e_5 + \frac{45}{1531}\sqrt{566e^4} \otimes e_9$	{234, 3689}
9421:27	$0, 0, 0, 0, 0, \frac{2}{259}\sqrt{6555e^{12}}, \frac{2}{259}\sqrt{2945e^{13}} + \frac{259}{259}\sqrt{570e^{24}}, \frac{76}{259}\sqrt{5e^{16}},$ $\frac{2}{259}\sqrt{6270e^{18}} + \frac{2}{259}\sqrt{3705e^{23}}$	$(\frac{17}{259}, \frac{19}{259}, \frac{51}{259}, \frac{7}{37}, -\frac{173}{259}, \frac{36}{259}, \frac{68}{259}, \frac{53}{259}, \frac{10}{37})$ $+ \frac{12}{259}\sqrt{570e^1} \otimes e_5$	{12478, 1679, 23456789, 357}
9421:27	$0, 0, 0, 0, 0, \frac{4}{2765}\sqrt{110994e^{12}}, \frac{2}{2765}\sqrt{667387e^{13}} + \frac{4}{2765}\sqrt{49805e^{24}},$ $\frac{2}{2765}\sqrt{446822e^{16}}, \frac{4}{2765}\sqrt{321598e^{18}} + \frac{2}{2765}\sqrt{1186782e^{23}}$	$(\frac{36}{2765}, -\frac{27}{395}, \frac{108}{2765}, \frac{333}{2765}, 1, -\frac{153}{2765}, \frac{144}{2765}, -\frac{117}{2765}, -\frac{81}{2765})$ $+ \frac{4}{2765}\sqrt{815379e^5} \otimes e_9$	{12469, 158, 2345, 3689}
9421:27	$0, 0, 0, 0, 0, \frac{6}{851}\sqrt{3431e^{12}}, \frac{6}{851}\sqrt{15557e^{13}} + \frac{6}{851}\sqrt{6862e^{24}}, \frac{36}{851}\sqrt{94e^{16}},$ $\frac{6}{851}\sqrt{6862e^{18}} + \frac{6}{851}\sqrt{13865e^{23}}$	$(\frac{75}{851}, \frac{39}{851}, \frac{225}{851}, \frac{261}{851}, -\frac{27}{37}, \frac{114}{851}, \frac{300}{851}, \frac{189}{851}, \frac{264}{851})$ $+ \frac{24}{851}\sqrt{2162e^3} \otimes e_5$	{12456789, 157, 23478, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:27	$0, 0, 0, 0, 0, \frac{1034}{6141}\sqrt{5}e^{12}, \frac{47}{6141}\sqrt{562}e^{13} + \frac{94}{6141}\sqrt{1193}e^{24},$ $\frac{47}{6141}\sqrt{598}e^{16}, \frac{47}{6141}\sqrt{3334}e^{18} + \frac{94}{6141}\sqrt{237}e^{23}$	$(\frac{47}{2047}, -\frac{1034}{6141}, \frac{141}{2047}, \frac{1598}{6141}, \frac{2773}{6141}, -\frac{893}{6141}, \frac{188}{2047}, -\frac{752}{6141}, -\frac{611}{6141})$ $+ \frac{188}{6141}\sqrt{421}e^4 \otimes e_9 + \frac{47}{6141}\sqrt{4314}e^5 \otimes e_7$	{2345, 35689}
9421:27	$0, 0, 0, 0, 0, \frac{12}{701}\sqrt{1595}e^{12}, \frac{2}{701}\sqrt{50083}e^{13} + \frac{2}{701}\sqrt{52954}e^{24},$ $\frac{4}{701}\sqrt{7337}e^{16}, \frac{4}{701}\sqrt{2233}e^{18} + \frac{12}{701}\sqrt{1595}e^{23}$	$(\frac{32}{701}, \frac{175}{701}, \frac{96}{701}, -\frac{47}{701}, -\frac{463}{701}, \frac{207}{701}, \frac{128}{701}, \frac{239}{701}, \frac{271}{701})$ $+ \frac{2}{701}\sqrt{185658}e^2 \otimes e_5$	{12489, 156, 23468, 359}
9421:27	$0, 0, 0, 0, 0, \frac{28}{927}\sqrt{293}e^{12}, \frac{2}{927}\sqrt{77059}e^{13} + \frac{4}{309}\sqrt{3223}e^{24},$ $\frac{2}{927}\sqrt{39262}e^{16}, \frac{4}{309}\sqrt{3223}e^{18} + \frac{2}{309}\sqrt{6446}e^{23}$	$(\frac{68}{927}, -\frac{259}{927}, \frac{68}{309}, \frac{59}{103}, \frac{139}{927}, \frac{191}{927}, \frac{272}{927}, -\frac{41}{309}, -\frac{55}{927})$ $+ \frac{4}{927}\sqrt{57721}e^4 \otimes e_9$	{234, 2345, 35689, 3689}
9421:28	$0, 0, 0, 0, 0, \frac{1}{684}\sqrt{13130}e^{12}, \frac{1}{342}\sqrt{89385}e^{13}, \frac{1}{171}\sqrt{5555}e^{16},$ $\frac{101}{684}\sqrt{15}e^{18} + \frac{101}{684}\sqrt{15}e^{23} + \frac{1}{684}\sqrt{332290}e^{45}$	$(-\frac{25}{456}, \frac{457}{1368}, -\frac{25}{152}, \frac{355}{684}, -\frac{239}{684}, \frac{191}{684}, -\frac{25}{114}, \frac{307}{1368}, \frac{29}{171})$ $+ \frac{1}{114}\sqrt{16665}e^4 \otimes e_7$	{127, 156789, 235679, 378}
9421:28	$0, 0, 0, 0, 0, \frac{2}{713}\sqrt{19346}e^{12}, \frac{4}{713}\sqrt{1707}e^{13}, \frac{4}{713}\sqrt{6259}e^{16},$ $\frac{2}{713}\sqrt{8535}e^{18} + \frac{4}{713}\sqrt{8535}e^{23} + \frac{4}{713}\sqrt{21622}e^{45}$	$(\frac{39}{713}, \frac{95}{713}, \frac{117}{713}, \frac{675}{713}, -\frac{463}{713}, \frac{134}{713}, \frac{156}{713}, \frac{173}{713}, \frac{212}{713})$ $+ \frac{1138}{713}e^4 \otimes e_5$	{13469, 13569, 24689, 25689}
9421:28	$0, 0, 0, 0, 0, \frac{37}{2121}\sqrt{695}e^{12}, \frac{37}{2121}\sqrt{739}e^{13}, \frac{74}{2121}\sqrt{22}e^{16},$ $\frac{185}{2121}\sqrt{23}e^{18} + \frac{148}{2121}\sqrt{39}e^{23} + \frac{37}{2121}\sqrt{142}e^{45}$	$(-\frac{148}{2121}, \frac{37}{101}, -\frac{148}{707}, \frac{851}{2121}, -\frac{74}{303}, \frac{629}{2121}, -\frac{592}{2121}, \frac{481}{2121}, \frac{111}{707})$ $+ \frac{1369}{2121}e^4 \otimes e_5 + \frac{37}{2121}\sqrt{2398}e^2 \otimes e_7$	{2469, 2569}
9421:28	$0, 0, 0, 0, 0, \frac{74}{2873}\sqrt{695}e^{12}, \frac{74}{2873}\sqrt{739}e^{13}, \frac{148}{2873}\sqrt{22}e^{16},$ $\frac{370}{2873}\sqrt{23}e^{18} + \frac{296}{2873}\sqrt{39}e^{23} + \frac{74}{2873}\sqrt{142}e^{45}$	$(-\frac{296}{2873}, \frac{1554}{2873}, -\frac{888}{2873}, \frac{333}{2873}, \frac{333}{2873}, \frac{74}{169}, -\frac{1184}{2873}, \frac{74}{221}, \frac{666}{2873})$ $+ \frac{74}{2873}\sqrt{2398}e^2 \otimes e_7$	{123, 12345, 2469}
9421:29	$0, 0, 0, 0, 0, \frac{6}{2441}\sqrt{1329}e^{12}, \frac{2}{2441}\sqrt{991434}e^{13}, \frac{6}{2441}\sqrt{16834}e^{16},$ $\frac{4}{2441}\sqrt{114294}e^{18} + \frac{2}{2441}\sqrt{38541}e^{24} + \frac{6}{2441}\sqrt{890430}e^{35}$	$(\frac{125}{2441}, \frac{384}{2441}, -\frac{1012}{2441}, \frac{375}{2441}, \frac{1771}{2441}, \frac{509}{2441}, -\frac{887}{2441}, \frac{634}{2441}, \frac{759}{2441})$ $+ \frac{6}{2441}\sqrt{300797}e^5 \otimes e_7$	{135, 17, 34679, 4569}
9421:29	$0, 0, 0, 0, 0, \frac{42}{2383}\sqrt{129}e^{12}, \frac{7}{2383}\sqrt{9678}e^{13}, \frac{7}{2383}\sqrt{3126}e^{16},$ $\frac{21}{2383}\sqrt{258}e^{18} + \frac{42}{2383}\sqrt{191}e^{24} + \frac{42}{2383}\sqrt{129}e^{35}$	$(\frac{119}{2383}, -\frac{322}{2383}, \frac{91}{2383}, \frac{357}{2383}, -\frac{56}{2383}, -\frac{203}{2383}, \frac{210}{2383}, -\frac{84}{2383}, \frac{35}{2383})$ $+ \frac{28}{2383}\sqrt{330}e^3 \otimes e_5 + \frac{7}{2383}\sqrt{8718}e^4 \otimes e_7$	{157, 2458}
9421:29	$0, 0, 0, 0, 0, \frac{2}{779}\sqrt{53238}e^{12}, \frac{16}{779}\sqrt{2802}e^{13}, \frac{4}{779}\sqrt{10274}e^{16},$ $\frac{2}{779}\sqrt{26619}e^{18} + \frac{6}{779}\sqrt{7005}e^{24} + \frac{2}{779}\sqrt{53238}e^{35}$	$(-\frac{5}{779}, \frac{99}{779}, \frac{509}{779}, -\frac{15}{779}, -\frac{425}{779}, \frac{94}{779}, \frac{504}{779}, \frac{89}{779}, \frac{84}{779})$ $+ \frac{2}{779}\sqrt{307753}e^3 \otimes e_5$	{13, 157, 23478, 2458}
9421:29	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{481}e^{12}, \frac{1}{73}\sqrt{3774}e^{13}, \frac{1}{73}\sqrt{1110}e^{16},$ $\frac{1}{73}\sqrt{962}e^{18} + \frac{2}{73}\sqrt{851}e^{24} + \frac{2}{73}\sqrt{481}e^{35}$	$(\frac{9}{73}, -\frac{14}{73}, -\frac{19}{73}, \frac{27}{73}, \frac{32}{73}, -\frac{5}{73}, -\frac{10}{73}, \frac{4}{73}, \frac{13}{73})$ $+ \frac{1}{73}\sqrt{4958}e^4 \otimes e_7$	{126789, 157, 2458, 469}
9421:29	$0, 0, 0, 0, 0, \frac{6}{239}\sqrt{247}e^{12}, \frac{3}{239}\sqrt{4294}e^{13}, \frac{9}{239}\sqrt{114}e^{16},$ $\frac{12}{239}\sqrt{133}e^{18} + \frac{12}{239}\sqrt{247}e^{24} + \frac{3}{239}\sqrt{1634}e^{35}$	$(-\frac{24}{239}, \frac{109}{239}, -\frac{38}{239}, -\frac{72}{239}, \frac{75}{239}, \frac{85}{239}, -\frac{62}{239}, \frac{61}{239}, \frac{37}{239})$ $+ \frac{9}{239}\sqrt{874}e^2 \otimes e_7$	{1234, 146789, 269, 378}
9421:29	$0, 0, 0, 0, 0, \frac{12}{2465}\sqrt{45663}e^{12}, \frac{2}{2465}\sqrt{633390}e^{13}, \frac{24}{2465}\sqrt{2946}e^{16},$ $\frac{2}{2465}\sqrt{175287}e^{18} + \frac{2}{2465}\sqrt{491982}e^{24} + \frac{2}{2465}\sqrt{646647}e^{35}$	$(-\frac{421}{2465}, \frac{99}{145}, \frac{5}{29}, -\frac{1263}{2465}, -\frac{1}{493}, \frac{1262}{2465}, \frac{4}{2465}, \frac{29}{85}, \frac{84}{493})$ $+ \frac{6}{2465}\sqrt{332407}e^2 \otimes e_4$	{134567, 146, 23568, 2678}
9421:29	$0, 0, 0, 0, 0, \frac{32}{697}\sqrt{103}e^{12}, \frac{96}{697}\sqrt{13}e^{13}, \frac{32}{697}\sqrt{14}e^{16},$ $\frac{32}{697}\sqrt{51}e^{18} + \frac{16}{697}\sqrt{30}e^{24} + \frac{16}{697}\sqrt{2}e^{35}$	$(-\frac{80}{697}, \frac{16}{41}, \frac{16}{41}, -\frac{240}{697}, -\frac{240}{697}, \frac{192}{697}, \frac{192}{697}, \frac{112}{697}, \frac{32}{697})$ $+ \frac{16}{697}\sqrt{1230}e^2 \otimes e_4 - \frac{16}{697}\sqrt{1258}e^3 \otimes e_5$	{134689, 1456789, 23679, 2569}
9421:29	$0, 0, 0, 0, 0, \frac{32}{697}\sqrt{103}e^{12}, \frac{96}{697}\sqrt{13}e^{13}, \frac{32}{697}\sqrt{14}e^{16},$ $\frac{32}{697}\sqrt{51}e^{18} + \frac{16}{697}\sqrt{30}e^{24} + \frac{16}{697}\sqrt{2}e^{35}$	$(-\frac{80}{697}, \frac{16}{41}, \frac{16}{41}, -\frac{240}{697}, -\frac{240}{697}, \frac{192}{697}, \frac{192}{697}, \frac{112}{697}, \frac{32}{697})$ $+ \frac{16}{697}\sqrt{1230}e^2 \otimes e_4 + \frac{16}{697}\sqrt{1258}e^3 \otimes e_5$	{134689, 1456789, 23679, 2569}
9421:29	$0, 0, 0, 0, 0, \frac{86}{7301}\sqrt{77}e^{12}, \frac{43}{7301}\sqrt{7662}e^{13}, \frac{43}{7301}\sqrt{2258}e^{16},$ $\frac{172}{7301}\sqrt{177}e^{18} + \frac{86}{7301}\sqrt{1254}e^{24} + \frac{43}{7301}\sqrt{2986}e^{35}$	$(-\frac{688}{7301}, \frac{43}{149}, \frac{946}{7301}, -\frac{2064}{7301}, -\frac{129}{1043}, \frac{1419}{7301}, \frac{258}{7301}, \frac{731}{7301}, \frac{43}{7301})$ $+ \frac{172}{7301}\sqrt{355}e^3 \otimes e_5 + \frac{43}{7301}\sqrt{8034}e^2 \otimes e_7$	{157, 2458}
9421:29	$0, 0, 0, 0, 0, \frac{21}{2095}\sqrt{2658}e^{12}, \frac{42}{2095}\sqrt{255}e^{13}, \frac{21}{2095}\sqrt{114}e^{16},$ $\frac{63}{2095}\sqrt{158}e^{18} + \frac{84}{2095}\sqrt{57}e^{24} + \frac{63}{2095}\sqrt{318}e^{35}$	$(-\frac{168}{2095}, \frac{819}{2095}, -\frac{84}{419}, -\frac{504}{2095}, \frac{147}{419}, \frac{651}{2095}, -\frac{588}{2095}, \frac{483}{2095}, \frac{63}{419})$ $+ \frac{21}{2095}\sqrt{5298}e^2 \otimes e_4 + \frac{21}{2095}\sqrt{5910}e^5 \otimes e_7$	{13456, 1467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:30	$0, 0, 0, 0, 0, \frac{370}{8361}\sqrt{6}e^{12}, \frac{37}{8361}\sqrt{7318}e^{13}, \frac{37}{8361}\sqrt{3898}e^{26},$ $\frac{37}{8361}\sqrt{3066}e^{14} + \frac{37}{8361}\sqrt{5642}e^{28} + \frac{37}{8361}\sqrt{2766}e^{35}$	$(-\frac{1628}{8361}, \frac{259}{2787}, \frac{1036}{8361}, \frac{259}{929}, -\frac{37}{929}, -\frac{851}{8361}, -\frac{592}{8361}, -\frac{74}{8361}, \frac{703}{8361})$ $+\frac{37}{2787}\sqrt{1122}e^2 \otimes e_7 + \frac{74}{8361}\sqrt{1257}e^3 \otimes e_5$	{1238, 347}
9421:30	$0, 0, 0, 0, 0, \frac{2}{987}\sqrt{148730}e^{12}, \frac{2}{987}\sqrt{148730}e^{13}, \frac{2}{987}\sqrt{31030}e^{26},$ $\frac{4}{987}\sqrt{17655}e^{14} + \frac{2}{987}\sqrt{3745}e^{28} + \frac{2}{987}\sqrt{3745}e^{35}$	$(\frac{563}{987}, -\frac{169}{987}, -\frac{37}{329}, -\frac{169}{329}, \frac{167}{329}, \frac{394}{987}, \frac{452}{987}, \frac{75}{329}, \frac{8}{141})$ $+\frac{2}{987}\sqrt{434955}e^1 \otimes e_4$	{12358, 1278, 3457, 4}
9421:30	$0, 0, 0, 0, 0, \frac{2}{963}\sqrt{66918}e^{12}, \frac{8}{963}\sqrt{15262}e^{13}, \frac{4}{963}\sqrt{8218}e^{26},$ $\frac{2}{963}\sqrt{33459}e^{14} + \frac{2}{963}\sqrt{88637}e^{28} + \frac{2}{963}\sqrt{66918}e^{35}$	$(-\frac{77}{963}, \frac{25}{321}, \frac{661}{963}, \frac{25}{107}, -\frac{57}{963}, -\frac{2}{963}, \frac{584}{963}, \frac{73}{963}, \frac{148}{963})$ $+\frac{2}{963}\sqrt{466665}e^3 \otimes e_5$	{13, 157, 23478, 2458}
9421:30	$0, 0, 0, 0, 0, \frac{8}{477}\sqrt{1437}e^{12}, \frac{2}{477}\sqrt{41194}e^{13}, \frac{5}{477}\sqrt{958}e^{26},$ $\frac{1}{159}\sqrt{16286}e^{14} + \frac{2}{477}\sqrt{9101}e^{28} + \frac{8}{477}\sqrt{1437}e^{35}$	$(-\frac{154}{477}, \frac{12}{53}, -\frac{1}{477}, \frac{36}{53}, \frac{19}{53}, -\frac{46}{477}, -\frac{155}{477}, \frac{62}{477}, \frac{170}{477})$ $+\frac{2}{477}\sqrt{96279}e^4 \otimes e_7$	{12679, 134, 2378, 4689}
9421:30	$0, 0, 0, 0, 0, \frac{22}{507}\sqrt{57}e^{12}, \frac{2}{507}\sqrt{21945}e^{13}, \frac{1}{39}\sqrt{418}e^{26},$ $\frac{1}{507}\sqrt{46398}e^{14} + \frac{2}{507}\sqrt{21945}e^{28} + \frac{2}{507}\sqrt{8151}e^{35}$	$(-\frac{30}{169}, \frac{62}{507}, -\frac{19}{169}, \frac{62}{169}, \frac{51}{169}, -\frac{28}{507}, -\frac{49}{169}, \frac{34}{507}, \frac{32}{169})$ $+\frac{4}{169}\sqrt{1254}e^2 \otimes e_7$	{1238, 146789, 269, 347}
9421:30	$0, 0, 0, 0, 0, \frac{58}{8793}\sqrt{822}e^{12}, \frac{29}{8793}\sqrt{6670}e^{13}, \frac{29}{8793}\sqrt{3922}e^{26},$ $\frac{29}{8793}\sqrt{3678}e^{14} + \frac{29}{8793}\sqrt{4730}e^{28} + \frac{29}{2931}\sqrt{226}e^{35}$	$(\frac{580}{8793}, -\frac{29}{2931}, -\frac{1508}{8793}, \frac{29}{977}, \frac{203}{977}, \frac{493}{8793}, -\frac{928}{8793}, \frac{406}{8793}, \frac{319}{8793})$ $+\frac{29}{8793}\sqrt{10146}e^2 \otimes e_7 + \frac{58}{2931}\sqrt{1455}e^1 \otimes e_4$	{1238, 347}
9421:30	$0, 0, 0, 0, 0, \frac{2}{987}\sqrt{3745}e^{12}, \frac{2}{987}\sqrt{148730}e^{13}, \frac{2}{987}\sqrt{31030}e^{26},$ $\frac{4}{987}\sqrt{17655}e^{14} + \frac{2}{987}\sqrt{3745}e^{28} + \frac{2}{987}\sqrt{148730}e^{35}$	$(\frac{1}{47}, \frac{34}{329}, -\frac{382}{987}, \frac{102}{329}, \frac{709}{987}, \frac{41}{329}, -\frac{361}{987}, \frac{75}{329}, \frac{109}{329})$ $+\frac{2}{987}\sqrt{434955}e^5 \otimes e_7$	{12358, 1278, 23679, 2569}
9421:30	$0, 0, 0, 0, 0, \frac{68}{585}\sqrt{6}e^{12}, \frac{17}{585}\sqrt{433}e^{13}, \frac{17}{585}\sqrt{37}e^{26},$ $\frac{17}{1170}\sqrt{546}e^{14} + \frac{68}{585}\sqrt{5}e^{28} + \frac{17}{1170}\sqrt{354}e^{35}$	$(\frac{136}{585}, -\frac{17}{195}, \frac{136}{585}, -\frac{17}{65}, -\frac{17}{117}, \frac{272}{585}, \frac{34}{585}, -\frac{17}{585})$ $+\frac{17}{1170}\sqrt{2022}e^3 \otimes e_5 + \frac{17}{390}\sqrt{246}e^1 \otimes e_4$	{1238, 12578, 347, 45}
9421:30	$0, 0, 0, 0, 0, \frac{68}{585}\sqrt{6}e^{12}, \frac{17}{585}\sqrt{433}e^{13}, \frac{17}{585}\sqrt{37}e^{26},$ $\frac{17}{1170}\sqrt{546}e^{14} + \frac{68}{585}\sqrt{5}e^{28} + \frac{17}{1170}\sqrt{354}e^{35}$	$(\frac{136}{585}, -\frac{17}{195}, \frac{136}{585}, \frac{17}{65}, -\frac{17}{117}, \frac{272}{585}, \frac{34}{585}, -\frac{17}{585})$ $-\frac{17}{1170}\sqrt{2022}e^3 \otimes e_5 + \frac{17}{390}\sqrt{246}e^1 \otimes e_4$	{1238, 12578, 347, 45}
9421:30	$0, 0, 0, 0, 0, \frac{65}{1809}\sqrt{102}e^{12}, \frac{26}{1809}\sqrt{1315}e^{13}, \frac{13}{1809}\sqrt{610}e^{26},$ $\frac{13}{603}\sqrt{310}e^{14} + \frac{52}{1809}\sqrt{10}e^{28} + \frac{65}{1809}\sqrt{102}e^{35}$	$(\frac{494}{1809}, -\frac{13}{201}, -\frac{598}{1809}, -\frac{13}{67}, \frac{247}{603}, \frac{377}{1809}, -\frac{104}{1809}, \frac{260}{1809}, \frac{143}{1809})$ $+\frac{13}{1809}\sqrt{8130}e^1 \otimes e_4 + \frac{65}{1809}\sqrt{8130}e^5 \otimes e_7$	{13568, 1678}
9421:30	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{406}e^{12}, \frac{1}{49}\sqrt{854}e^{13}, \frac{2}{49}\sqrt{14}e^{26},$ $\frac{2}{49}\sqrt{77}e^{14} + \frac{4}{49}\sqrt{14}e^{28} + \frac{2}{49}\sqrt{406}e^{35}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, -\frac{1}{7}, 0, 0, \frac{1}{7})$ $+\frac{1}{49}\sqrt{1022}e^4 \otimes e_7 + \frac{2}{49}\sqrt{217}e^3 \otimes e_5$	{134, 2378}
9421:31	$0, 0, 0, 0, 0, \frac{12}{239}\sqrt{133}e^{12}, \frac{3}{239}\sqrt{4294}e^{13} + \frac{6}{239}\sqrt{247}e^{24}, \frac{9}{239}\sqrt{114}e^{16},$ $\frac{3}{239}\sqrt{1634}e^{18} + \frac{12}{239}\sqrt{247}e^{25}$	$(\frac{45}{239}, -\frac{42}{239}, -\frac{81}{239}, \frac{6}{239}, \frac{135}{239}, \frac{3}{239}, -\frac{36}{239}, \frac{48}{239}, \frac{93}{239})$ $+\frac{9}{239}\sqrt{874}e^5 \otimes e_7$	{126789, 147, 2458, 569}
9421:31	$0, 0, 0, 0, 0, \frac{12}{239}\sqrt{133}e^{12}, \frac{3}{239}\sqrt{4294}e^{13} + \frac{3}{239}\sqrt{1634}e^{24}, \frac{9}{239}\sqrt{114}e^{16},$ $\frac{6}{239}\sqrt{247}e^{18} + \frac{12}{239}\sqrt{247}e^{25}$	$(-\frac{24}{239}, \frac{27}{239}, \frac{126}{239}, \frac{75}{239}, -\frac{72}{239}, \frac{3}{239}, \frac{102}{239}, -\frac{21}{239}, -\frac{45}{239})$ $+\frac{9}{239}\sqrt{874}e^3 \otimes e_9$	{123568, 1579, 289, 367}
9421:31	$0, 0, 0, 0, 0, \frac{156}{2429}\sqrt{13}e^{12}, \frac{39}{2429}\sqrt{22}e^{13} + \frac{39}{2429}\sqrt{46}e^{24}, \frac{351}{2429}\sqrt{2}e^{16},$ $\frac{78}{2429}\sqrt{127}e^{18} + \frac{1248}{2429}e^{25}$	$(-\frac{312}{2429}, \frac{585}{2429}, \frac{1170}{2429}, \frac{39}{347}, -\frac{936}{2429}, \frac{39}{347}, \frac{858}{2429}, -\frac{39}{2429}, -\frac{351}{2429})$ $+\frac{117}{2429}\sqrt{314}e^3 \otimes e_9 + \frac{468}{2429}\sqrt{10}e^2 \otimes e_5$	{14579, 2489}
9421:31	$0, 0, 0, 0, 0, \frac{6}{419}\sqrt{1419}e^{12}, \frac{132}{419}\sqrt{3}e^{13} + \frac{6}{419}\sqrt{3003}e^{24}, \frac{9}{419}\sqrt{374}e^{16},$ $\frac{6}{419}\sqrt{3003}e^{18} + \frac{3}{419}\sqrt{3102}e^{25}$	$(\frac{6}{419}, -\frac{78}{419}, \frac{153}{419}, \frac{237}{419}, \frac{18}{419}, -\frac{72}{419}, \frac{159}{419}, -\frac{66}{419}, -\frac{60}{419})$ $+\frac{18}{419}\sqrt{649}e^4 \otimes e_9$	{123679, 13478, 2345, 35689}
9421:31	$0, 0, 0, 0, 0, \frac{8}{371}\sqrt{139}e^{12}, \frac{8}{1113}\sqrt{1362}e^{13} + \frac{8}{1113}\sqrt{843}e^{24}, \frac{8}{371}\sqrt{130}e^{16},$ $\frac{8}{1113}\sqrt{1077}e^{18} + \frac{48}{371}\sqrt{3}e^{25}$	$(-\frac{4}{1113}, \frac{36}{371}, -\frac{92}{1113}, -\frac{28}{159}, \frac{4}{371}, \frac{16}{159}, -\frac{88}{1113}, \frac{116}{1113}, \frac{40}{371})$ $+\frac{8}{1113}\sqrt{1191}e^2 \otimes e_5 + \frac{8}{1113}\sqrt{1893}e^1 \otimes e_3$	{1248, 35}
9421:31	$0, 0, 0, 0, 0, \frac{180}{5977}\sqrt{19}e^{12}, \frac{45}{5977}\sqrt{3034}e^{13} + \frac{45}{5977}\sqrt{5078}e^{24},$ $\frac{45}{5977}\sqrt{1410}e^{16} + \frac{45}{5977}\sqrt{3506}e^{18} + \frac{225}{5977}\sqrt{22}e^{25}$	$(-\frac{495}{5977}, \frac{540}{5977}, \frac{2115}{5977}, \frac{1080}{5977}, -\frac{1485}{5977}, \frac{45}{419}, \frac{1620}{5977}, -\frac{450}{5977}, -\frac{945}{5977})$ $+\frac{270}{5977}\sqrt{131}e^2 \otimes e_5 + \frac{45}{5977}\sqrt{6042}e^4 \otimes e_9$	{1248, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:31	$0, 0, 0, 0, 0, \frac{6}{1231}\sqrt{13511}e^{12}, \frac{3}{1231}\sqrt{65018}e^{13} + \frac{6}{1231}\sqrt{5959}e^{24},$ $\frac{18}{1231}\sqrt{1947}e^{16}, \frac{3}{1231}\sqrt{65962}e^{18} + \frac{3}{1231}\sqrt{41654}e^{25}$	$(\frac{171}{1231}, -\frac{147}{1231}, -\frac{360}{1231}, -\frac{42}{1231}, \frac{513}{1231}, \frac{24}{1231}, -\frac{189}{1231}, \frac{195}{1231}, \frac{366}{1231})$ $+ \frac{9}{1231}\sqrt{14042}e^1 \otimes e_3$	{1248, 169, 2345689, 35}
9421:31	$0, 0, 0, 0, 0, \frac{90}{401}\sqrt{13}e^{12}, \frac{18}{401}\sqrt{65}e^{13} + \frac{9}{401}\sqrt{790}e^{24}, \frac{18}{401}\sqrt{30}e^{16},$ $\frac{9}{401}\sqrt{790}e^{18} + \frac{9}{401}\sqrt{1430}e^{25}$	$(-\frac{27}{401}, \frac{207}{401}, \frac{36}{401}, -\frac{198}{401}, -\frac{81}{401}, \frac{180}{401}, \frac{9}{401}, \frac{153}{401}, \frac{126}{401})$ $+ \frac{9}{401}\sqrt{3390}e^2 \otimes e_4$	{12389, 1346, 2568, 459}
9421:31	$0, 0, 0, 0, 0, \frac{18}{1127}\sqrt{5}e^{12}, \frac{18}{1127}\sqrt{890}e^{13} + \frac{18}{1127}\sqrt{115}e^{24},$ $\frac{9}{1127}\sqrt{870}e^{16}, \frac{18}{1127}\sqrt{610}e^{18} + \frac{9}{1127}\sqrt{4730}e^{25}$	$(\frac{72}{1127}, \frac{108}{1127}, -\frac{261}{1127}, -\frac{297}{1127}, \frac{216}{1127}, \frac{180}{1127}, -\frac{27}{1127}, \frac{36}{1127}, \frac{324}{1127})$ $+ \frac{18}{1127}\sqrt{1095}e^2 \otimes e_4 + \frac{54}{1127}\sqrt{165}e^5 \otimes e_7$	{258, 4569}
9421:31	$0, 0, 0, 0, 0, \frac{2}{97}\sqrt{39}e^{12}, \frac{10}{97}\sqrt{3}e^{13} + \frac{6}{97}e^{24}, \frac{3}{97}\sqrt{10}e^{16},$ $\frac{6}{97}e^{18} + \frac{3}{97}\sqrt{30}e^{25}$	$(\frac{2}{97}, -\frac{8}{97}, \frac{1}{97}, \frac{11}{97}, \frac{6}{97}, -\frac{6}{97}, \frac{3}{97}, -\frac{4}{97}, -\frac{2}{97})$ $+ \frac{2}{97}\sqrt{69}e^3 \otimes e_9 + \frac{2}{97}\sqrt{69}e^5 \otimes e_7$	{1246789, 4569}
9421:31	$0, 0, 0, 0, 0, \frac{18}{713}\sqrt{173}e^{12}, \frac{126}{713}\sqrt{2}e^{13} + \frac{9}{713}\sqrt{782}e^{24}, \frac{36}{713}\sqrt{3}e^{16},$ $\frac{18}{713}\sqrt{86}e^{18} + \frac{9}{713}\sqrt{806}e^{25}$	$(\frac{63}{713}, -\frac{162}{713}, -\frac{36}{713}, \frac{189}{713}, \frac{189}{713}, -\frac{99}{713}, \frac{27}{713}, -\frac{36}{713}, \frac{27}{713})$ $+ \frac{27}{713}\sqrt{146}e^5 \otimes e_7 + \frac{9}{713}\sqrt{1290}e^4 \otimes e_9$	{1234568, 1359, 23789, 3467}
9421:31	$0, 0, 0, 0, 0, \frac{18}{713}\sqrt{173}e^{12}, \frac{126}{713}\sqrt{2}e^{13} + \frac{9}{713}\sqrt{782}e^{24}, \frac{36}{713}\sqrt{3}e^{16},$ $\frac{18}{713}\sqrt{86}e^{18} + \frac{9}{713}\sqrt{806}e^{25}$	$(\frac{63}{713}, -\frac{162}{713}, -\frac{36}{713}, \frac{189}{713}, \frac{189}{713}, -\frac{99}{713}, \frac{27}{713}, -\frac{36}{713}, \frac{27}{713})$ $- \frac{27}{713}\sqrt{146}e^5 \otimes e_7 + \frac{9}{713}\sqrt{1290}e^4 \otimes e_9$	{1234568, 1359, 23789, 3467}
9421:31	$0, 0, 0, 0, 0, \frac{18}{1127}\sqrt{5}e^{12}, \frac{18}{1127}\sqrt{890}e^{13} + \frac{18}{1127}\sqrt{610}e^{24},$ $\frac{9}{1127}\sqrt{870}e^{16}, \frac{18}{1127}\sqrt{115}e^{18} + \frac{9}{1127}\sqrt{4730}e^{25}$	$(-\frac{18}{161}, \frac{306}{1127}, \frac{333}{1127}, -\frac{99}{1127}, -\frac{54}{161}, \frac{180}{1127}, \frac{9}{1127}, \frac{54}{1127}, -\frac{72}{1127})$ $+ \frac{18}{1127}\sqrt{1095}e^2 \otimes e_4 + \frac{54}{1127}\sqrt{165}e^3 \otimes e_9$	{134, 4569}
9421:31	$0, 0, 0, 0, 0, \frac{6}{131}\sqrt{143}e^{12}, \frac{6}{131}\sqrt{209}e^{13} + \frac{6}{131}\sqrt{22}e^{24}, \frac{9}{131}\sqrt{66}e^{16},$ $\frac{6}{131}\sqrt{154}e^{18} + \frac{3}{131}\sqrt{638}e^{25}$	$(0, \frac{12}{131}, -\frac{9}{131}, -\frac{21}{131}, 0, \frac{12}{131}, -\frac{9}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{18}{131}\sqrt{19}e^5 \otimes e_7 + \frac{90}{131}e^1 \otimes e_3$	{1248, 169}
9421:31	$0, 0, 0, 0, 0, \frac{270}{5011}\sqrt{13}e^{12}, \frac{54}{5011}\sqrt{922}e^{13} + \frac{54}{5011}\sqrt{701}e^{24},$ $\frac{27}{5011}\sqrt{3318}e^{16}, \frac{54}{5011}\sqrt{1145}e^{18} + \frac{27}{5011}\sqrt{1330}e^{25}$	$(\frac{378}{5011}, -\frac{918}{5011}, \frac{351}{5011}, \frac{945}{5011}, \frac{1134}{5011}, -\frac{540}{5011}, \frac{27}{5011}, -\frac{162}{5011}, \frac{216}{5011})$ $+ \frac{324}{5011}\sqrt{37}e^1 \otimes e_3 + \frac{54}{5011}\sqrt{939}e^4 \otimes e_9$	{1248, 169}
9421:31	$0, 0, 0, 0, 0, \frac{6}{2453}\sqrt{107027}e^{12}, \frac{6}{2453}\sqrt{86591}e^{13} + \frac{6}{2453}\sqrt{124057}e^{24},$ $\frac{18}{2453}\sqrt{5109}e^{16}, \frac{12}{2453}\sqrt{8515}e^{18} + \frac{24}{2453}\sqrt{4454}e^{25}$	$(-\frac{375}{2453}, \frac{1233}{2453}, \frac{1053}{2453}, -\frac{555}{2453}, -\frac{1125}{2453}, \frac{78}{223}, \frac{678}{2453}, \frac{483}{2453}, \frac{108}{2453})$ $+ \frac{18}{2453}\sqrt{29999}e^2 \otimes e_5$	{12378, 1248, 35, 457}
9421:32	$0, 0, 0, 0, 0, \frac{22}{179}\sqrt{13}e^{12}, \frac{22}{179}\sqrt{35}e^{13} + \frac{22}{179}\sqrt{13}e^{45}, \frac{11}{179}\sqrt{30}e^{16},$ $\frac{22}{179}\sqrt{17}e^{18} + \frac{11}{179}\sqrt{130}e^{24} + \frac{22}{179}\sqrt{17}e^{35}$	$(-\frac{22}{179}, \frac{88}{179}, -\frac{11}{179}, -\frac{66}{179}, \frac{33}{179}, \frac{66}{179}, -\frac{33}{179}, \frac{44}{179}, \frac{22}{179})$ $+ \frac{22}{179}\sqrt{77}e^2 \otimes e_7$	{146789, 269}
9421:33	$0, 0, 0, 0, 0, \frac{8}{867}\sqrt{39}e^{12}, -\frac{2}{867}\sqrt{1146}e^{13} + \frac{18}{867}\sqrt{2}e^{45}, \frac{4}{51}e^{26},$ $\frac{2}{867}\sqrt{1182}e^{14} + \frac{8}{867}\sqrt{102}e^{28} + \frac{2}{867}\sqrt{870}e^{35}$	$(-\frac{12}{289}, \frac{14}{867}, \frac{14}{289}, \frac{14}{289}, -\frac{12}{289}, -\frac{22}{867}, \frac{2}{289}, -\frac{8}{867}, \frac{2}{289})$ $+ \frac{8}{289}\sqrt{21}e^2 \otimes e_7$	{1238, 146789, 269, 347, 1238, 146789, 269, 347}
9421:33	$0, 0, 0, 0, 0, \frac{8}{867}\sqrt{39}e^{12}, \frac{2}{867}\sqrt{1146}e^{13} + \frac{18}{289}\sqrt{2}e^{45}, \frac{4}{51}e^{26},$ $\frac{2}{867}\sqrt{1182}e^{14} + \frac{8}{867}\sqrt{102}e^{28} + \frac{2}{867}\sqrt{870}e^{35}$	$(-\frac{12}{289}, \frac{14}{867}, \frac{14}{289}, \frac{14}{289}, -\frac{12}{289}, -\frac{22}{867}, \frac{2}{289}, -\frac{8}{867}, \frac{2}{289})$ $+ \frac{8}{289}\sqrt{21}e^2 \otimes e_7$	{1238, 146789, 269, 347, 1238, 146789, 269, 347}
9421:34	$0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{5}{1091}\sqrt{51034}e^{13}, \frac{1}{1091}\sqrt{400214}e^{16},$ $\frac{1}{1091}\sqrt{351866}e^{18} + \frac{2}{1091}\sqrt{103411}e^{26}$	$(\frac{41}{1091}, \frac{82}{1091}, -\frac{293}{1091}, \frac{1}{1091}, \frac{182}{1091}, \frac{123}{1091}, -\frac{252}{1091}, \frac{164}{1091}, \frac{205}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_7$	{134, 1345, 157, 17, 35679, 3679, 4569, 469}
9421:34	$0, 0, 0, 0, 0, \frac{16}{1591}\sqrt{2001}e^{12}, \frac{120}{1591}\sqrt{29}e^{13}, \frac{4}{1591}\sqrt{33002}e^{16},$ $\frac{4}{1591}\sqrt{22330}e^{18} + \frac{232}{1591}\sqrt{2}e^{26}$	$(\frac{85}{1591}, \frac{170}{1591}, -\frac{379}{1591}, \frac{294}{1591}, \frac{156}{1591}, \frac{255}{1591}, -\frac{294}{1591}, \frac{340}{1591}, \frac{425}{1591})$ $+ \frac{120}{1591}\sqrt{29}e^2 \otimes e_4 + \frac{4}{1591}\sqrt{57130}e^1 \otimes e_3$	{1258, 128, 235689, 23689}
9421:34	$0, 0, 0, 0, 0, \frac{2}{809}\sqrt{24054}e^{12}, \frac{1}{809}\sqrt{107610}e^{13}, \frac{6}{809}\sqrt{633}e^{16},$ $\frac{2}{809}\sqrt{13715}e^{18} + \frac{2}{809}\sqrt{25953}e^{26}$	$(\frac{40}{809}, \frac{80}{809}, -\frac{171}{809}, -\frac{171}{809}, \frac{84}{809}, \frac{120}{809}, -\frac{131}{809}, \frac{160}{809}, \frac{200}{809})$ $+ \frac{1}{809}\sqrt{107610}e^1 \otimes e_4 + \frac{2}{809}\sqrt{49585}e^2 \otimes e_7$	{156789, 16789, 34578, 3478}
9421:34	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{1281}e^{12}, \frac{8}{497}\sqrt{1155}e^{13}, \frac{12}{71}\sqrt{5}e^{16},$ $\frac{12}{497}\sqrt{7}e^{18} + \frac{36}{497}\sqrt{35}e^{26}$	$(-\frac{17}{497}, -\frac{34}{497}, \frac{83}{497}, \frac{234}{497}, \frac{40}{497}, -\frac{51}{497}, \frac{66}{497}, -\frac{68}{497}, -\frac{85}{497})$ $+ \frac{4}{497}\sqrt{4074}e^4 \otimes e_7 + \frac{4}{497}\sqrt{5523}e^3 \otimes e_9$	{1234568, 123468, 24589, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:34	$0, 0, 0, 0, 0, \frac{6}{437}\sqrt{1335e^{12}}, \frac{4}{437}\sqrt{267e^{13}}, \frac{2}{437}\sqrt{5785e^{16}},$ $\frac{4}{437}\sqrt{445e^{18}} + \frac{14}{437}\sqrt{89e^{26}}$	$(\frac{24}{437}, \frac{48}{437}, \frac{39}{437}, -\frac{154}{437}, -\frac{130}{437}, \frac{72}{437}, \frac{63}{437}, \frac{96}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{16109e^2} \otimes e_5 + \frac{2}{437}\sqrt{18245e^1} \otimes e_4$	{13569, 15679, 3457, 45}
9421:34	$0, 0, 0, 0, 0, \frac{200}{3301}\sqrt{26e^{12}}, \frac{50}{3301}\sqrt{371e^{13}}, \frac{275}{3301}\sqrt{14e^{16}},$ $\frac{50}{3301}\sqrt{407e^{18}} + \frac{75}{3301}\sqrt{6e^{26}}$	$(\frac{75}{3301}, \frac{150}{3301}, -\frac{550}{3301}, -\frac{475}{3301}, \frac{1000}{3301}, \frac{225}{3301}, -\frac{475}{3301}, \frac{300}{3301}, \frac{375}{3301})$ $+ \frac{25}{3301}\sqrt{1466e^5} \otimes e_9 + \frac{25}{3301}\sqrt{3118e^1} \otimes e_3 + \frac{50}{3301}\sqrt{371e^2} \otimes e_4$	{1469, 345}
9421:34	$0, 0, 0, 0, 0, \frac{22}{1777}\sqrt{39e^{12}}, \frac{11}{1777}\sqrt{3270e^{13}}, \frac{66}{1777}\sqrt{5e^{16}},$ $\frac{66}{1777}\sqrt{33e^{18}} + \frac{66}{1777}\sqrt{35e^{26}}$	$(-\frac{22}{1777}, -\frac{44}{1777}, \frac{253}{1777}, -\frac{385}{1777}, \frac{594}{1777}, -\frac{66}{1777}, \frac{231}{1777}, -\frac{88}{1777}, -\frac{110}{1777})$ $+ \frac{165}{1777}\sqrt{14e^1} \otimes e_4 + \frac{22}{1777}\sqrt{681e^5} \otimes e_7 + \frac{22}{1777}\sqrt{987e^3} \otimes e_9$	{123568, 24589}
9421:34	$0, 0, 0, 0, 0, \frac{3}{1477}\sqrt{18190e^{12}}, \frac{3}{1477}\sqrt{65270e^{13}}, \frac{6}{1477}\sqrt{7811e^{16}},$ $\frac{6}{1477}\sqrt{5885e^{18}} + \frac{3}{1477}\sqrt{62702e^{26}}$	$(-\frac{24}{1477}, -\frac{48}{1477}, \frac{489}{1477}, \frac{843}{1477}, -\frac{474}{1477}, -\frac{72}{1477}, \frac{465}{1477}, -\frac{96}{1477}, -\frac{120}{1477})$ $+ \frac{3}{1477}\sqrt{146162e^4} \otimes e_9 + \frac{6}{1477}\sqrt{33919e^3} \otimes e_5$	{123468, 1245678, 23789, 2589}
9421:34	$0, 0, 0, 0, 0, \frac{4}{2851}\sqrt{49226e^{12}}, \frac{4}{2851}\sqrt{1963e^{13}}, \frac{4}{2851}\sqrt{94526e^{16}},$ $\frac{4}{2851}\sqrt{128803e^{18}} + \frac{4}{2851}\sqrt{7097e^{26}}$	$(\frac{26}{2851}, \frac{52}{2851}, \frac{318}{2851}, \frac{1338}{2851}, -\frac{1182}{2851}, \frac{78}{2851}, \frac{344}{2851}, \frac{104}{2851}, \frac{130}{2851})$ $+ \frac{4}{2851}\sqrt{152057e^4} \otimes e_9 + \frac{4}{2851}\sqrt{228463e^1} \otimes e_5$	{12348, 12478, 2356789, 25689}
9421:34	$0, 0, 0, 0, 0, \frac{1}{1541}\sqrt{120270e^{12}}, \frac{1}{1541}\sqrt{313546e^{13}}, \frac{1}{1541}\sqrt{185258e^{16}},$ $\frac{2}{1541}\sqrt{56337e^{18}} + \frac{1}{1541}\sqrt{286538e^{26}}$	$(\frac{50}{1541}, \frac{100}{1541}, -\frac{7}{67}, -\frac{372}{1541}, \frac{105}{1541}, \frac{150}{1541}, -\frac{111}{1541}, \frac{200}{1541}, \frac{250}{1541})$ $+ \frac{1}{1541}\sqrt{404698e^2} \otimes e_7 + \frac{3}{1541}\sqrt{22366e^3} \otimes e_4$	{1456789, 146789, 3578, 378}
9421:34	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109e^{12}}, \frac{5}{109}\sqrt{111e^{13}}, \frac{2}{109}\sqrt{962e^{16}},$ $\frac{1}{109}\sqrt{3145e^{18}} + \frac{2}{109}\sqrt{518e^{26}}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, \frac{29}{109}, -\frac{8}{109}, \frac{15}{109}, -\frac{27}{109}, \frac{20}{109}, \frac{25}{109})$ $+ \frac{37}{109}e^4 \otimes e_5 + \frac{4}{109}\sqrt{370e^1} \otimes e_3$	{1248, 1258, 234689, 235689}
9421:34	$0, 0, 0, 0, 0, \frac{32}{537}\sqrt{21e^{12}}, \frac{8}{537}\sqrt{393e^{13}}, \frac{8}{537}\sqrt{114e^{16}},$ $\frac{8}{179}\sqrt{13e^{18}} + \frac{8}{537}\sqrt{483e^{26}}$	$(\frac{4}{179}, \frac{8}{179}, -\frac{28}{179}, -\frac{28}{179}, \frac{52}{179}, \frac{12}{179}, -\frac{24}{179}, \frac{16}{179}, \frac{20}{179})$ $+ \frac{40}{537}\sqrt{30e^2} \otimes e_7 + \frac{8}{537}\sqrt{327e^5} \otimes e_9 + \frac{8}{537}\sqrt{393e^1} \otimes e_4$	{16789, 34578}
9421:34	$0, 0, 0, 0, 0, \frac{30}{1339}\sqrt{213e^{12}}, \frac{3}{1339}\sqrt{35074e^{13}}, \frac{3}{1339}\sqrt{35358e^{16}},$ $\frac{3}{1339}\sqrt{28258e^{18}} + \frac{42}{1339}\sqrt{71e^{26}}$	$(\frac{51}{1339}, \frac{102}{1339}, \frac{350}{1339}, -\frac{588}{1339}, \frac{289}{1339}, \frac{153}{1339}, \frac{401}{1339}, \frac{204}{1339}, \frac{255}{1339})$ $+ \frac{3}{1339}\sqrt{62906e^3} \otimes e_5 + \frac{6}{1339}\sqrt{26341e^1} \otimes e_4$	{1238, 12578, 2346789, 245689}
9421:34	$0, 0, 0, 0, 0, \frac{1}{93}\sqrt{149e^{12}}, \frac{1}{93}\sqrt{745e^{13}}, \frac{2}{93}\sqrt{298e^{16}},$ $\frac{1}{93}\sqrt{745e^{18}} + \frac{2}{93}\sqrt{298e^{26}}$	$(\frac{5}{93}, \frac{10}{93}, \frac{16}{93}, 1, -\frac{56}{93}, \frac{5}{31}, \frac{7}{31}, \frac{20}{93}, \frac{25}{93})$ $+ \frac{149}{93}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 347, 357, 4, 5}
9421:34	$0, 0, 0, 0, 0, \frac{6}{223}\sqrt{935e^{12}}, \frac{4}{223}\sqrt{187e^{13}}, \frac{5}{223}\sqrt{374e^{16}},$ $\frac{11}{223}\sqrt{170e^{18}} + \frac{4}{223}\sqrt{37774e^{26}}$	$(\frac{16}{223}, \frac{32}{223}, \frac{26}{223}, -\frac{155}{223}, \frac{34}{223}, \frac{48}{223}, \frac{42}{223}, \frac{64}{223}, \frac{80}{223})$ $+ \frac{3}{223}\sqrt{7854e^2} \otimes e_4$	{1345689, 134689, 1456789, 146789, 34578, 3478, 458, 48}
9421:34	$0, 0, 0, 0, 0, \frac{2}{3009}\sqrt{421838e^{12}}, \frac{8}{3009}\sqrt{653e^{13}}, \frac{2}{3009}\sqrt{184799e^{16}},$ $\frac{2}{3009}\sqrt{71830e^{18}} + \frac{6}{1003}\sqrt{9142e^{26}}$	$(\frac{32}{3009}, \frac{64}{3009}, \frac{95}{1003}, \frac{1466}{3009}, -\frac{414}{1003}, \frac{32}{1003}, \frac{317}{3009}, \frac{128}{3009}, \frac{160}{3009})$ $+ \frac{2}{3009}\sqrt{1007579e^2} \otimes e_5 + \frac{2}{3009}\sqrt{760745e^4} \otimes e_9$	{135689, 156789, 34578, 458}
9421:34	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109e^{12}}, \frac{2}{181}\sqrt{3145e^{13}}, \frac{4}{181}\sqrt{518e^{16}},$ $\frac{10}{181}\sqrt{111e^{18}} + \frac{4}{181}\sqrt{962e^{26}}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, -\frac{54}{181}, \frac{40}{181}, \frac{50}{181})$ $+ \frac{8}{181}\sqrt{370e^2} \otimes e_7$	{1456789, 146789, 16789, 34578, 3478, 378}
9421:34	$0, 0, 0, 0, 0, \frac{4}{2631}\sqrt{38533e^{12}}, \frac{4}{2631}\sqrt{67574e^{13}}, \frac{4}{2631}\sqrt{54579e^{16}},$ $\frac{4}{2631}\sqrt{22035e^{18}} + \frac{4}{2631}\sqrt{124639e^{26}}$	$(-\frac{3}{877}, -\frac{6}{877}, \frac{859}{2631}, -\frac{922}{2631}, \frac{84}{877}, -\frac{9}{877}, \frac{850}{2631}, -\frac{12}{877}, -\frac{15}{877})$ $+ \frac{4}{2631}\sqrt{132662e^2} \otimes e_4 + \frac{4}{2631}\sqrt{136165e^3} \otimes e_9$	{1456789, 146789, 34578, 3478}
9421:34	$0, 0, 0, 0, 0, \frac{1}{393}\sqrt{15663e^{12}}, \frac{5}{131}\sqrt{227e^{13}}, \frac{1}{393}\sqrt{25878e^{16}},$ $\frac{1}{393}\sqrt{15209e^{18}} + \frac{1}{393}\sqrt{45854e^{26}}$	$(-\frac{4}{131}, -\frac{8}{131}, \frac{167}{393}, \frac{52}{131}, -\frac{71}{393}, -\frac{12}{131}, \frac{155}{393}, -\frac{16}{131}, -\frac{20}{131})$ $+ \frac{1}{393}\sqrt{107598e^3} \otimes e_9 + \frac{227}{393}e^4 \otimes e_5$	{123468, 123568, 2489, 2589}
9421:34	$0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029e^{12}}, \frac{5}{1091}\sqrt{51034e^{13}}, \frac{1}{1091}\sqrt{400214e^{16}},$ $\frac{1}{1091}\sqrt{351866e^{18}} + \frac{2}{1091}\sqrt{103411e^{26}}$	$(\frac{41}{1091}, \frac{82}{1091}, \frac{616}{1091}, -\frac{727}{1091}, \frac{182}{1091}, \frac{123}{1091}, \frac{657}{1091}, \frac{164}{1091}, \frac{205}{1091})$ $+ \frac{3}{1091}\sqrt{271286e^3} \otimes e_4$	{13, 135, 1457, 147, 35679, 3679, 4569, 469}
9421:34	$0, 0, 0, 0, 0, \frac{30}{1339}\sqrt{213e^{12}}, \frac{3}{1339}\sqrt{35074e^{13}}, \frac{3}{1339}\sqrt{35358e^{16}},$ $\frac{3}{1339}\sqrt{28258e^{18}} + \frac{42}{1339}\sqrt{71e^{26}}$	$(\frac{51}{1339}, \frac{102}{1339}, -\frac{93}{1339}, \frac{597}{1339}, -\frac{588}{1339}, \frac{153}{1339}, -\frac{42}{1339}, \frac{204}{1339}, \frac{255}{1339})$ $+ \frac{3}{1339}\sqrt{62906e^4} \otimes e_7 + \frac{6}{1339}\sqrt{26341e^1} \otimes e_5$	{12348, 1278, 2356789, 245689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:34	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}, \frac{4}{23}\sqrt{7}e^{13}, \frac{4}{23}\sqrt{5}e^{16},$ $\frac{2}{23}\sqrt{30}e^{18} + \frac{2}{23}\sqrt{46}e^{26}$	$(\frac{1}{23}, \frac{2}{23}, -\frac{7}{69}, \frac{32}{69}, -\frac{10}{23}, \frac{3}{23}, -\frac{4}{69}, \frac{4}{23}, \frac{5}{23})$ $+ \frac{10}{23}\sqrt{2}e^4 \otimes e_7 + \frac{2}{23}\sqrt{74}e^2 \otimes e_5$	{1345689, 156789, 3578, 458}
9421:34	$0, 0, 0, 0, 0, \frac{2}{559}\sqrt{15663}e^{12}, \frac{30}{559}\sqrt{227}e^{13}, \frac{2}{559}\sqrt{25878}e^{16},$ $\frac{2}{559}\sqrt{15209}e^{18} + \frac{2}{559}\sqrt{45854}e^{26}$	$(-\frac{24}{559}, -\frac{48}{559}, \frac{334}{559}, \frac{85}{559}, \frac{85}{559}, -\frac{72}{559}, \frac{310}{559}, -\frac{96}{559}, -\frac{120}{559})$ $+ \frac{2}{559}\sqrt{107598}e^3 \otimes e_9$	{1234568, 123468, 12368, 24589, 2489, 289}
9421:34	$0, 0, 0, 0, 0, \frac{9}{980}\sqrt{898}e^{12}, \frac{1}{490}\sqrt{103270}e^{13}, \frac{1}{980}\sqrt{155354}e^{16},$ $\frac{1}{490}\sqrt{32777}e^{18} + \frac{1}{490}\sqrt{29185}e^{26}$	$(\frac{11}{980}, \frac{11}{490}, \frac{131}{1960}, \frac{1051}{1960}, -\frac{767}{1960}, \frac{33}{980}, \frac{153}{1960}, \frac{11}{1181}, \frac{11}{196})$ $+ \frac{3}{980}\sqrt{45349}e^3 \otimes e_5 + \frac{3}{980}\sqrt{45349}e^4 \otimes e_7$	{134, 157, 3679, 4569}
9421:34	$0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{1}{1181}\sqrt{241302}e^{13}, \frac{24}{1181}\sqrt{307}e^{16},$ $\frac{2}{1181}\sqrt{41138}e^{18} + \frac{1}{1181}\sqrt{355506}e^{26}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, \frac{417}{1181}, \frac{108}{1181}, \frac{66}{1181}, -\frac{263}{1181}, \frac{88}{1181}, \frac{110}{1181})$ $+ \frac{1}{1181}\sqrt{189726}e^4 \otimes e_9 + \frac{2}{1181}\sqrt{117274}e^2 \otimes e_7$	{156789, 16789, 34578, 3478}
9421:34	$0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{1}{1181}\sqrt{227794}e^{13}, \frac{2}{1181}\sqrt{73066}e^{16},$ $\frac{4}{1181}\sqrt{19034}e^{18} + \frac{1}{1181}\sqrt{113590}e^{26}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, \frac{417}{1181}, \frac{108}{1181}, \frac{66}{1181}, -\frac{263}{1181}, \frac{88}{1181}, \frac{110}{1181})$ $+ \frac{1}{1181}\sqrt{189726}e^4 \otimes e_9 + \frac{2}{1181}\sqrt{117274}e^1 \otimes e_3$	{12458, 1248, 235689, 23689}
9421:34	$0, 0, 0, 0, 0, \frac{48}{1135}\sqrt{145}e^{12}, \frac{8}{1135}\sqrt{6902}e^{13}, \frac{12}{1135}\sqrt{4234}e^{16},$ $\frac{4}{1135}\sqrt{31146}e^{18} + \frac{8}{1135}\sqrt{5133}e^{26}$	$(\frac{63}{1135}, \frac{126}{1135}, -\frac{401}{1135}, \frac{126}{1135}, \frac{132}{1135}, \frac{189}{1135}, -\frac{338}{1135}, \frac{252}{1135}, \frac{63}{227})$ $+ \frac{4}{1135}\sqrt{58522}e^1 \otimes e_3 + \frac{8}{1135}\sqrt{87}e^4 \otimes e_7$	{1258, 128, 235689, 23689}
9421:34	$0, 0, 0, 0, 0, \frac{3}{185}\sqrt{10}e^{12}, \frac{3}{185}\sqrt{38}e^{13}, \frac{1}{185}\sqrt{222}e^{16},$ $\frac{1}{185}\sqrt{158}e^{18} + \frac{2}{185}\sqrt{93}e^{26}$	$(-\frac{1}{185}, -\frac{2}{185}, -\frac{3}{185}, \frac{11}{185}, \frac{13}{185}, -\frac{3}{185}, -\frac{4}{185}, -\frac{4}{185}, -\frac{1}{37})$ $- \frac{1}{185}\sqrt{282}e^3 \otimes e_9 + \frac{1}{185}\sqrt{406}e^2 \otimes e_7 + \frac{2}{185}e^5 \otimes e_4$	{146789, 156789, 3478, 3578}
9421:34	$0, 0, 0, 0, 0, \frac{3}{185}\sqrt{10}e^{12}, \frac{3}{185}\sqrt{38}e^{13}, \frac{1}{185}\sqrt{222}e^{16},$ $\frac{1}{185}\sqrt{158}e^{18} + \frac{2}{185}\sqrt{93}e^{26}$	$(-\frac{1}{185}, -\frac{2}{185}, -\frac{3}{185}, \frac{11}{185}, \frac{13}{185}, -\frac{3}{185}, -\frac{4}{185}, -\frac{4}{185}, -\frac{1}{37})$ $+ \frac{1}{185}\sqrt{282}e^3 \otimes e_9 + \frac{1}{185}\sqrt{406}e^2 \otimes e_7 + \frac{2}{185}e^5 \otimes e_4$	{146789, 156789, 3478, 3578}
9421:34	$0, 0, 0, 0, 0, \frac{12}{1219}\sqrt{329}e^{12}, \frac{6}{1219}\sqrt{6063}e^{13}, \frac{9}{1219}\sqrt{1222}e^{16},$ $\frac{12}{1219}\sqrt{1598}e^{18} + \frac{3}{1219}\sqrt{8366}e^{26}$	$(-\frac{5}{1219}, -\frac{10}{1219}, \frac{398}{1219}, \frac{428}{1219}, \frac{135}{1219}, -\frac{15}{1219}, \frac{393}{1219}, -\frac{20}{1219}, -\frac{25}{1219})$ $+ \frac{3}{1219}\sqrt{48974}e^3 \otimes e_9 + \frac{1}{1219}\sqrt{52922}e^1 \otimes e_4$	{15679, 1679, 3457, 347}
9421:34	$0, 0, 0, 0, 0, \frac{3}{1133}\sqrt{7698}e^{12}, \frac{1}{1133}\sqrt{38490}e^{13}, \frac{4}{1133}\sqrt{3849}e^{16},$ $\frac{4}{1133}\sqrt{47471}e^{18} + \frac{1}{1133}\sqrt{736442}e^{26}$	$(-\frac{30}{1133}, -\frac{60}{1133}, \frac{215}{1133}, 1, \frac{200}{1133}, -\frac{90}{1133}, \frac{185}{1133}, -\frac{120}{1133}, -\frac{150}{1133})$ $+ \frac{1}{1133}\sqrt{2394078}e^4 \otimes e_9$	{12345678, 1234678, 124568, 12468, 23589, 2389, 25789, 2789}
9421:34	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}, \frac{4}{23}\sqrt{7}e^{13}, \frac{4}{23}\sqrt{5}e^{16},$ $\frac{2}{23}\sqrt{30}e^{18} + \frac{2}{23}\sqrt{46}e^{26}$	$(\frac{1}{23}, \frac{2}{23}, \frac{6}{23}, -\frac{10}{23}, -\frac{6}{23}, \frac{3}{23}, \frac{7}{23}, \frac{4}{23}, \frac{5}{23})$ $+ \frac{10}{23}\sqrt{2}e^3 \otimes e_5 + \frac{2}{23}\sqrt{74}e^2 \otimes e_4$	{134689, 1456789, 3478, 458}
9421:34	$0, 0, 0, 0, 0, \frac{3}{1477}\sqrt{18190}e^{12}, \frac{3}{1477}\sqrt{65270}e^{13}, \frac{6}{1477}\sqrt{7811}e^{16},$ $\frac{6}{1477}\sqrt{5885}e^{18} + \frac{3}{1477}\sqrt{62702}e^{26}$	$(-\frac{24}{1477}, -\frac{48}{1477}, -\frac{145}{1477}, \frac{794}{1477}, \frac{843}{1477}, -\frac{72}{1477}, -\frac{169}{1477}, \frac{96}{1477}, -\frac{120}{1477})$ $+ \frac{3}{1477}\sqrt{146162}e^5 \otimes e_9 + \frac{6}{1477}\sqrt{33919}e^4 \otimes e_7$	{1234568, 125678, 23789, 2489}
9421:34	$0, 0, 0, 0, 0, \frac{34}{1465}\sqrt{30}e^{12}, \frac{34}{1465}\sqrt{231}e^{13}, \frac{17}{1465}\sqrt{573}e^{16},$ $\frac{34}{1465}\sqrt{59}e^{18} + \frac{34}{1465}\sqrt{249}e^{26}$	$(-\frac{17}{1465}, -\frac{34}{1465}, \frac{204}{1465}, -\frac{323}{1465}, \frac{476}{1465}, -\frac{51}{1465}, \frac{187}{1465}, -\frac{68}{1465}, -\frac{17}{293})$ $+ \frac{17}{1465}\sqrt{1131}e^3 \otimes e_9 + \frac{17}{1465}\sqrt{751}e^5 \otimes e_7 + \frac{187}{1465}\sqrt{7}e^2 \otimes e_4$	{146789, 3478}
9421:34	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{10}{181}\sqrt{111}e^{13}, \frac{4}{181}\sqrt{962}e^{16},$ $\frac{2}{181}\sqrt{3145}e^{18} + \frac{4}{181}\sqrt{518}e^{26}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, -\frac{54}{181}, \frac{40}{181}, \frac{50}{181})$ $+ \frac{8}{181}\sqrt{370}e^1 \otimes e_3$	{12458, 1248, 128, 2345689, 234689, 23689}
9421:34	$0, 0, 0, 0, 0, \frac{11}{415}\sqrt{285}e^{12}, \frac{22}{415}\sqrt{57}e^{13}, \frac{11}{415}\sqrt{291}e^{16},$ $\frac{154}{415}e^{18} + \frac{11}{415}\sqrt{57}e^{26}$	$(\frac{22}{415}, \frac{44}{415}, -\frac{99}{415}, -\frac{77}{415}, \frac{44}{415}, \frac{66}{415}, -\frac{77}{415}, \frac{88}{415}, \frac{22}{83})$ $+ \frac{11}{415}\sqrt{235}e^2 \otimes e_4 + \frac{11}{415}\sqrt{7}e^5 \otimes e_7 + \frac{143}{415}\sqrt{3}e^1 \otimes e_3$	{1258, 235689}
9421:34	$0, 0, 0, 0, 0, \frac{25}{2431}\sqrt{1126}e^{12}, \frac{25}{2431}\sqrt{1762}e^{13}, \frac{50}{2431}\sqrt{538}e^{16},$ $\frac{100}{2431}\sqrt{138}e^{18} + \frac{25}{2431}\sqrt{870}e^{26}$	$(\frac{50}{2431}, \frac{100}{2431}, -\frac{575}{2431}, \frac{100}{2431}, \frac{875}{2431}, \frac{150}{2431}, -\frac{525}{2431}, \frac{200}{2431}, \frac{250}{2431})$ $+ \frac{25}{2431}\sqrt{1294}e^5 \otimes e_9 + \frac{50}{2431}e^4 \otimes e_7 + \frac{50}{2431}\sqrt{842}e^1 \otimes e_3$	{1258, 23689}
9421:34	$0, 0, 0, 0, 0, \frac{3}{184}\sqrt{10}e^{12}, \frac{3}{184}\sqrt{38}e^{13}, \frac{1}{184}\sqrt{222}e^{16},$ $\frac{1}{184}\sqrt{158}e^{18} + \frac{1}{92}\sqrt{93}e^{26}$	$(-\frac{1}{184}, -\frac{1}{92}, -\frac{3}{184}, \frac{3}{46}, \frac{3}{46}, -\frac{3}{184}, -\frac{1}{46}, -\frac{1}{46}, -\frac{5}{184})$ $- \frac{1}{184}\sqrt{282}e^3 \otimes e_9 + \frac{1}{184}\sqrt{406}e^2 \otimes e_7$	{1456789, 146789, 16789, 34578, 3478, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:34	$0, 0, 0, 0, 0, \frac{3}{184}\sqrt{10}e^{12}, \frac{3}{184}\sqrt{38}e^{13}, \frac{1}{184}\sqrt{222}e^{16},$ $\frac{1}{184}\sqrt{158}e^{18} + \frac{1}{92}\sqrt{93}e^{26}$	$(-\frac{1}{184}, -\frac{1}{92}, -\frac{3}{184}, \frac{3}{46}, \frac{3}{46}, -\frac{3}{184}, -\frac{1}{46}, -\frac{1}{46}, -\frac{5}{184})$ $+ \frac{1}{184}\sqrt{282}e^3 \otimes e_9 + \frac{1}{184}\sqrt{406}e^2 \otimes e_7$	{1456789, 146789, 16789, 34578, 3478, 378}
9421:34	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109}e^{12}, \frac{1}{109}\sqrt{3145}e^{13}, \frac{2}{109}\sqrt{518}e^{16},$ $\frac{5}{109}\sqrt{111}e^{18} + \frac{2}{109}\sqrt{962}e^{26}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, \frac{29}{109}, -\frac{8}{109}, \frac{15}{109}, -\frac{27}{109}, \frac{20}{109}, \frac{25}{109})$ $+ \frac{37}{109}e^4 \otimes e_5 + \frac{4}{109}\sqrt{370}e^2 \otimes e_7$	{146789, 156789, 3478, 3578}
9421:34	$0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{109779}e^{12}, \frac{1}{1169}\sqrt{59570}e^{13}, \frac{2}{1169}\sqrt{189773}e^{16},$ $\frac{12}{1169}\sqrt{4255}e^{18} + \frac{2}{1169}\sqrt{86802}e^{26}$	$(\frac{10}{167}, \frac{20}{167}, \frac{159}{1169}, -\frac{781}{1169}, \frac{194}{1169}, \frac{30}{167}, \frac{229}{1169}, \frac{40}{167}, \frac{50}{167})$ $+ \frac{5}{1169}\sqrt{66378}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 23456789, 2346789, 245689, 24689}
9421:34	$0, 0, 0, 0, 0, \frac{6}{169}\sqrt{26}e^{12}, \frac{3}{169}\sqrt{278}e^{13}, \frac{3}{169}\sqrt{173}e^{16},$ $\frac{3}{169}\sqrt{178}e^{18} + \frac{6}{169}\sqrt{71}e^{26}$	$(\frac{3}{169}, \frac{6}{169}, -\frac{15}{169}, -\frac{33}{169}, \frac{33}{169}, \frac{9}{169}, -\frac{12}{169}, \frac{12}{169}, \frac{15}{169})$ $+ \frac{15}{169}\sqrt{7}e^3 \otimes e_4 + \frac{3}{169}\sqrt{89}e^5 \otimes e_9 + \frac{9}{169}\sqrt{41}e^2 \otimes e_7$	{146789, 3578}
9421:35	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{79194}e^{12}, \frac{2}{343}\sqrt{12805}e^{13}, \frac{3}{343}\sqrt{2758}e^{26},$ $\frac{2}{343}\sqrt{21867}e^{16} + \frac{2}{343}\sqrt{12805}e^{28}$	$(\frac{50}{343}, \frac{25}{343}, -\frac{3}{7}, \frac{33}{343}, \frac{33}{343}, \frac{75}{343}, -\frac{97}{343}, \frac{100}{343}, \frac{125}{343})$ $+ \frac{2}{343}\sqrt{30535}e^1 \otimes e_3$	{2345689, 234689, 23689, 3458, 348, 38}
9421:35	$0, 0, 0, 0, 0, \frac{6}{13}e^{12}, \frac{4}{13}\sqrt{5}e^{13}, \frac{2}{13}\sqrt{17}e^{26},$ $\frac{2}{13}\sqrt{23}e^{16} + \frac{4}{13}\sqrt{5}e^{28}$	$(0, 0, -\frac{2}{13}, \frac{3}{13}, \frac{3}{13}, 0, -\frac{2}{13}, 0, 0)$ $+ \frac{10}{13}e^2 \otimes e_7 + \frac{2}{13}\sqrt{15}e^1 \otimes e_3$	{1234569, 123469, 12369}
9421:35	$0, 0, 0, 0, 0, \frac{6}{571}\sqrt{323}e^{12}, \frac{2}{571}\sqrt{4845}e^{13}, \frac{6}{571}\sqrt{646}e^{26},$ $\frac{2}{571}\sqrt{49742}e^{16} + \frac{2}{571}\sqrt{45866}e^{28}$	$(-\frac{30}{571}, -\frac{15}{571}, \frac{115}{571}, 1, \frac{100}{571}, -\frac{45}{571}, \frac{85}{571}, -\frac{60}{571}, -\frac{75}{571})$ $+ \frac{2}{571}\sqrt{152133}e^4 \otimes e_9$	{12345678, 1234678, 124568, 12468, 135789, 13789, 1589, 189}
9421:35	$0, 0, 0, 0, 0, \frac{22}{1553}\sqrt{155}e^{12}, \frac{22}{1553}\sqrt{437}e^{13}, \frac{44}{1553}\sqrt{94}e^{26},$ $\frac{22}{1553}\sqrt{158}e^{16} + \frac{22}{1553}\sqrt{406}e^{28}$	$(\frac{66}{1553}, \frac{33}{1553}, -\frac{275}{1553}, -\frac{176}{1553}, \frac{407}{1553}, \frac{99}{1553}, -\frac{209}{1553}, \frac{132}{1553}, \frac{165}{1553})$ $+ \frac{154}{1553}\sqrt{5}e^5 \otimes e_9 + \frac{286}{1553}\sqrt{2}e^1 \otimes e_4 + \frac{44}{1553}\sqrt{202}e^2 \otimes e_7$	{12358, 16789}
9421:35	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{345}e^{12}, \frac{78}{511}\sqrt{3}e^{13}, \frac{13}{511}\sqrt{95}e^{26},$ $\frac{13}{511}\sqrt{187}e^{16} + \frac{26}{511}\sqrt{5}e^{28}$	$(\frac{52}{511}, \frac{26}{511}, -\frac{117}{511}, -\frac{143}{511}, \frac{104}{511}, \frac{78}{511}, -\frac{65}{511}, \frac{104}{511}, \frac{130}{511})$ $+ \frac{13}{511}\sqrt{115}e^5 \otimes e_7 + \frac{13}{511}\sqrt{379}e^2 \otimes e_4 + \frac{13}{511}\sqrt{435}e^1 \otimes e_3$	{12589, 14568}
9421:35	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{14}e^{12}, \frac{2}{21}\sqrt{66}e^{13}, \frac{1}{21}\sqrt{222}e^{26},$ $\frac{2}{21}\sqrt{78}e^{16} + \frac{1}{21}\sqrt{258}e^{28}$	$(0, 0, -\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, 0, -\frac{1}{7}, 0, 0)$ $+ \frac{1}{21}\sqrt{210}e^1 \otimes e_3 + \frac{1}{21}\sqrt{318}e^2 \otimes e_7 + \frac{1}{7}\sqrt{2}e^5 \otimes e_9$	{1234569, 123569}
9421:35	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{849}e^{12}, \frac{72}{2951}\sqrt{435}e^{13}, \frac{36}{2951}\sqrt{195}e^{26},$ $\frac{36}{2951}\sqrt{435}e^{16} + \frac{108}{2951}\sqrt{203}e^{28}$	$(-\frac{102}{2951}, -\frac{51}{2951}, \frac{1022}{2951}, \frac{1689}{2951}, -\frac{922}{2951}, -\frac{153}{2951}, \frac{920}{2951}, -\frac{204}{2951}, -\frac{255}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^3 \otimes e_5 + \frac{36}{2951}\sqrt{4047}e^4 \otimes e_9$	{23478, 2458, 36789, 5689}
9421:35	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{258}e^{12}, \frac{2}{119}\sqrt{301}e^{13}, \frac{8}{119}\sqrt{129}e^{26},$ $\frac{10}{119}\sqrt{43}e^{16} + \frac{4}{119}\sqrt{430}e^{28}$	$(\frac{2}{17}, \frac{1}{17}, \frac{13}{119}, -\frac{79}{119}, \frac{20}{119}, \frac{3}{17}, \frac{27}{119}, \frac{4}{17}, \frac{5}{17})$ $+ \frac{6}{119}\sqrt{473}e^2 \otimes e_4$	{12358, 1238, 12578, 1278, 1345689, 134689, 1456789, 146789}
9421:35	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{849}e^{12}, \frac{72}{2951}\sqrt{435}e^{13}, \frac{36}{2951}\sqrt{195}e^{26},$ $\frac{36}{2951}\sqrt{435}e^{16} + \frac{108}{2951}\sqrt{203}e^{28}$	$(-\frac{102}{2951}, -\frac{51}{2951}, -\frac{240}{2951}, \frac{1602}{2951}, \frac{1689}{2951}, -\frac{153}{2951}, -\frac{342}{2951}, -\frac{204}{2951}, -\frac{255}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^4 \otimes e_7 + \frac{36}{2951}\sqrt{4047}e^5 \otimes e_9$	{23578, 2458, 36789, 4689}
9421:35	$0, 0, 0, 0, 0, \frac{1}{1025}\sqrt{168726}e^{12}, \frac{1}{205}\sqrt{17518}e^{13}, \frac{2}{1025}\sqrt{23511}e^{26},$ $\frac{1}{1025}\sqrt{200074}e^{16} + \frac{1}{1025}\sqrt{150286}e^{28}$	$(\frac{14}{1025}, \frac{7}{1025}, \frac{2}{25}, \frac{557}{1025}, -\frac{379}{1025}, \frac{21}{1025}, \frac{96}{1025}, \frac{28}{1025}, \frac{7}{205})$ $+ \frac{6}{1025}\sqrt{11986}e^3 \otimes e_5 + \frac{6}{1025}\sqrt{11986}e^4 \otimes e_7$	{123469, 125679, 134, 157}
9421:35	$0, 0, 0, 0, 0, \frac{4}{2621}\sqrt{2742}e^{12}, \frac{46}{2621}\sqrt{457}e^{13}, \frac{28}{2621}\sqrt{1371}e^{26},$ $\frac{2}{2621}\sqrt{101911}e^{16} + \frac{4}{2621}\sqrt{107395}e^{28}$	$(-\frac{22}{2621}, -\frac{11}{2621}, \frac{859}{2621}, \frac{925}{2621}, \frac{308}{2621}, -\frac{33}{2621}, \frac{837}{2621}, -\frac{44}{2621}, -\frac{55}{2621})$ $+ \frac{12}{2621}\sqrt{13710}e^3 \otimes e_9 + \frac{6}{2621}\sqrt{62609}e^2 \otimes e_4$	{12358, 1238, 1456789, 146789}
9421:35	$0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{36498}e^{12}, \frac{3}{1411}\sqrt{49454}e^{13}, \frac{6}{1411}\sqrt{1185}e^{26},$ $\frac{3}{1411}\sqrt{38078}e^{16} + \frac{3}{1411}\sqrt{16906}e^{28}$	$(\frac{114}{1411}, \frac{57}{1411}, -\frac{162}{1411}, \frac{39}{83}, -\frac{597}{1411}, \frac{171}{1411}, -\frac{48}{1411}, \frac{228}{1411}, \frac{285}{1411})$ $+ \frac{6}{1411}\sqrt{29546}e^1 \otimes e_5 + \frac{96}{1411}\sqrt{79}e^4 \otimes e_7$	{2356789, 245689, 3578, 458}
9421:35	$0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{451110}e^{12}, \frac{1}{1139}\sqrt{1380670}e^{13}, \frac{2}{1139}\sqrt{94323}e^{26},$ $\frac{1}{1139}\sqrt{576874}e^{16} + \frac{1}{1139}\sqrt{527662}e^{28}$	$(\frac{74}{1139}, \frac{37}{1139}, -\frac{302}{1139}, 1, \frac{203}{1139}, \frac{111}{1139}, -\frac{228}{1139}, \frac{148}{1139}, \frac{185}{1139})$ $+ \frac{12}{1139}\sqrt{17771}e^4 \otimes e_7$	{1234569, 123469, 125679, 12679, 134, 1345, 157, 17}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:35	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{30}e^{12}, \frac{3}{25}\sqrt{10}e^{13}, \frac{4}{25}\sqrt{5}e^{26},$ $\frac{1}{5}\sqrt{2}e^{16} + \frac{1}{25}\sqrt{70}e^{28}$	$(\frac{2}{25}, \frac{1}{25}, -\frac{6}{25}, -\frac{3}{25}, \frac{3}{25}, \frac{3}{25}, -\frac{4}{25}, \frac{4}{25}, \frac{1}{5})$ $+ \frac{2}{25}\sqrt{15}e^1 \otimes e_4 + \frac{4}{25}\sqrt{10}e^2 \otimes e_7$	{12358, 1238, 156789, 16789}
9421:35	$0, 0, 0, 0, 0, \frac{2}{883}\sqrt{79194}e^{12}, \frac{4}{883}\sqrt{12805}e^{13}, \frac{6}{883}\sqrt{2758}e^{26},$ $\frac{4}{883}\sqrt{21867}e^{16} + \frac{4}{883}\sqrt{12805}e^{28}$	$(\frac{100}{883}, \frac{50}{883}, -\frac{294}{883}, \frac{263}{883}, -\frac{131}{883}, \frac{150}{883}, -\frac{194}{883}, \frac{200}{883}, \frac{250}{883})$ $+ \frac{394}{883}e^4 \otimes e_5 + \frac{4}{883}\sqrt{30535}e^1 \otimes e_3$	{234689, 235689, 348, 358}
9421:35	$0, 0, 0, 0, 0, \frac{8}{323}\sqrt{483}e^{12}, \frac{8}{323}\sqrt{231}e^{13}, \frac{28}{323}\sqrt{6}e^{26},$ $\frac{24}{323}\sqrt{35}e^{16} + \frac{20}{323}\sqrt{14}e^{28}$	$(\frac{2}{17}, \frac{1}{17}, -\frac{74}{323}, -\frac{93}{323}, \frac{30}{323}, \frac{3}{17}, -\frac{36}{323}, \frac{4}{17}, \frac{5}{17})$ $+ \frac{4}{323}\sqrt{1722}e^2 \otimes e_4 + \frac{8}{323}\sqrt{595}e^1 \otimes e_3$	{12589, 1289, 14568, 1468}
9421:35	$0, 0, 0, 0, 0, \frac{8}{1433}\sqrt{3035}e^{12}, \frac{1}{1433}\sqrt{15782}e^{13}, \frac{8}{1433}\sqrt{6070}e^{26},$ $\frac{8}{1433}\sqrt{607}e^{16} + \frac{1}{1433}\sqrt{528090}e^{28}$	$(\frac{26}{1433}, \frac{13}{1433}, \frac{154}{1433}, \frac{672}{1433}, -\frac{594}{1433}, \frac{39}{1433}, \frac{180}{1433}, \frac{52}{1433}, \frac{65}{1433})$ $+ \frac{1}{1433}\sqrt{613070}e^4 \otimes e_9 + \frac{1}{1433}\sqrt{923854}e^2 \otimes e_5$	{12348, 12478, 135689, 156789}
9421:35	$0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{451110}e^{12}, \frac{1}{1139}\sqrt{1380670}e^{13}, \frac{2}{1139}\sqrt{94323}e^{26},$ $\frac{1}{1139}\sqrt{576874}e^{16} + \frac{1}{1139}\sqrt{527662}e^{28}$	$(\frac{74}{1139}, \frac{37}{1139}, \frac{634}{1139}, -\frac{733}{1139}, \frac{203}{1139}, \frac{111}{1139}, \frac{708}{1139}, \frac{148}{1139}, \frac{185}{1139})$ $+ \frac{12}{1139}\sqrt{17771}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 13, 135, 1457, 147}
9421:35	$0, 0, 0, 0, 0, \frac{24}{311}\sqrt{10}e^{12}, \frac{8}{311}\sqrt{282}e^{13}, \frac{20}{311}\sqrt{66}e^{26},$ $\frac{8}{311}\sqrt{303}e^{16} + \frac{12}{311}\sqrt{170}e^{28}$	$(\frac{22}{311}, \frac{11}{311}, \frac{78}{311}, -\frac{133}{311}, -\frac{66}{311}, \frac{33}{311}, \frac{100}{311}, \frac{44}{311}, \frac{55}{311})$ $+ \frac{4}{311}\sqrt{3066}e^2 \otimes e_4 + \frac{8}{311}\sqrt{465}e^3 \otimes e_5$	{1238, 12578, 134689, 1456789}
9421:35	$0, 0, 0, 0, 0, \frac{6}{389}\sqrt{555}e^{12}, \frac{6}{389}\sqrt{327}e^{13}, \frac{3}{389}\sqrt{30}e^{26},$ $\frac{3}{389}\sqrt{2202}e^{16} + \frac{6}{389}\sqrt{30}e^{28}$	$(\frac{18}{389}, \frac{9}{389}, -\frac{63}{389}, -\frac{72}{389}, \frac{126}{389}, \frac{27}{389}, -\frac{45}{389}, \frac{36}{389}, \frac{45}{389})$ $+ \frac{3}{389}\sqrt{1770}e^5 \otimes e_9 + \frac{3}{389}\sqrt{1794}e^2 \otimes e_4 + \frac{42}{389}\sqrt{15}e^1 \otimes e_3$	{1289, 14568}
9421:35	$0, 0, 0, 0, 0, \frac{3}{7}e^{12}, \frac{2}{7}\sqrt{5}e^{13}, \frac{1}{7}\sqrt{17}e^{26},$ $\frac{1}{7}\sqrt{23}e^{16} + \frac{2}{7}\sqrt{5}e^{28}$	$(0, 0, -\frac{1}{7}, \frac{1}{7}, \frac{2}{7}, 0, -\frac{1}{7}, 0, 0)$ $+ \frac{1}{7}\sqrt{15}e^1 \otimes e_3 + \frac{1}{7}e^5 \otimes e_4 + \frac{5}{7}e^2 \otimes e_7$	{123469, 123569}
9421:35	$0, 0, 0, 0, 0, \frac{70}{5791}\sqrt{186}e^{12}, \frac{35}{5791}\sqrt{3322}e^{13}, \frac{35}{5791}\sqrt{1974}e^{26},$ $\frac{140}{5791}\sqrt{79}e^{16} + \frac{140}{5791}\sqrt{223}e^{28}$	$(-\frac{140}{5791}, -\frac{70}{5791}, \frac{875}{5791}, -\frac{1295}{5791}, \frac{1960}{5791}, -\frac{210}{5791}, \frac{735}{5791}, -\frac{280}{5791}, \frac{350}{5791})$ $+ \frac{35}{5791}\sqrt{2886}e^5 \otimes e_7 + \frac{35}{5791}\sqrt{4038}e^3 \otimes e_9 + \frac{70}{5791}\sqrt{906}e^2 \otimes e_4$	{12679, 1345}
9421:35	$0, 0, 0, 0, 0, \frac{30}{761}\sqrt{139}e^{12}, \frac{30}{761}\sqrt{103}e^{13}, \frac{15}{761}\sqrt{233}e^{26},$ $\frac{300}{761}\sqrt{2}e^{16} + \frac{90}{761}\sqrt{7}e^{28}$	$(\frac{30}{761}, \frac{15}{761}, -\frac{195}{761}, \frac{60}{761}, \frac{300}{761}, \frac{45}{761}, -\frac{165}{761}, \frac{60}{761}, \frac{75}{761})$ $+ \frac{15}{761}\sqrt{19}e^4 \otimes e_7 + \frac{15}{761}\sqrt{499}e^5 \otimes e_9 + \frac{15}{761}\sqrt{903}e^1 \otimes e_3$	{234689, 3458}
9421:35	$0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{36498}e^{12}, \frac{3}{1411}\sqrt{49454}e^{13}, \frac{6}{1411}\sqrt{1185}e^{26},$ $\frac{3}{1411}\sqrt{38078}e^{16} + \frac{3}{1411}\sqrt{16906}e^{28}$	$(\frac{114}{1411}, \frac{57}{1411}, \frac{350}{1411}, -\frac{597}{1411}, -\frac{361}{1411}, \frac{171}{1411}, \frac{464}{1411}, \frac{228}{1411}, \frac{285}{1411})$ $+ \frac{6}{1411}\sqrt{29546}e^1 \otimes e_4 + \frac{96}{1411}\sqrt{79}e^3 \otimes e_5$	{2346789, 245689, 3478, 458}
9421:35	$0, 0, 0, 0, 0, \frac{1}{1411}\sqrt{125646}e^{12}, \frac{1}{1411}\sqrt{299018}e^{13}, \frac{12}{1411}\sqrt{487}e^{26},$ $\frac{19}{1411}\sqrt{974}e^{16} + \frac{1}{1411}\sqrt{90582}e^{28}$	$(-\frac{10}{1411}, -\frac{5}{1411}, \frac{462}{1411}, -\frac{497}{1411}, \frac{145}{1411}, -\frac{15}{1411}, \frac{452}{1411}, -\frac{20}{1411}, -\frac{25}{1411})$ $+ \frac{2}{1411}\sqrt{156327}e^1 \otimes e_4 + \frac{4}{1411}\sqrt{37986}e^3 \otimes e_9$	{12579, 1279, 1356, 136}
9421:35	$0, 0, 0, 0, 0, \frac{6}{1315}\sqrt{23986}e^{12}, \frac{4}{1315}\sqrt{28103}e^{13}, \frac{12}{1315}\sqrt{1790}e^{26},$ $\frac{2}{1315}\sqrt{237354}e^{16} + \frac{2}{1315}\sqrt{136398}e^{28}$	$(\frac{162}{1315}, \frac{81}{1315}, -\frac{554}{1315}, \frac{324}{1315}, \frac{123}{1315}, \frac{243}{1315}, -\frac{392}{1315}, \frac{324}{1315}, \frac{81}{263})$ $+ \frac{2}{1315}\sqrt{354778}e^1 \otimes e_3 + \frac{2}{1315}\sqrt{71958}e^4 \otimes e_7$	{2345689, 234689, 3458, 348}
9421:35	$0, 0, 0, 0, 0, \frac{5}{389}\sqrt{1974}e^{12}, \frac{1}{389}\sqrt{95410}e^{13}, \frac{2}{389}\sqrt{1974}e^{26},$ $\frac{1}{389}\sqrt{19082}e^{16} + \frac{1}{389}\sqrt{95410}e^{28}$	$(-\frac{34}{389}, -\frac{17}{389}, \frac{244}{389}, \frac{65}{389}, \frac{65}{389}, -\frac{51}{389}, \frac{210}{389}, -\frac{68}{389}, -\frac{85}{389})$ $+ \frac{18}{389}\sqrt{658}e^3 \otimes e_9$	{234578, 23478, 2378, 45689, 4689, 689}
9421:35	$0, 0, 0, 0, 0, \frac{2}{2149}\sqrt{5061}e^{12}, \frac{2}{2149}\sqrt{188221}e^{13}, \frac{4}{2149}\sqrt{47477}e^{26},$ $\frac{8}{2149}\sqrt{9158}e^{16} + \frac{8}{2149}\sqrt{13737}e^{28}$	$(\frac{10}{307}, \frac{5}{307}, -\frac{517}{2149}, \frac{657}{2149}, \frac{264}{2149}, \frac{15}{307}, -\frac{447}{2149}, \frac{20}{307}, \frac{25}{307})$ $+ \frac{2}{2149}\sqrt{94713}e^4 \otimes e_9 + \frac{4}{2149}\sqrt{89893}e^2 \otimes e_7$	{123458, 12348, 156789, 16789}
9421:35	$0, 0, 0, 0, 0, \frac{10}{1107}\sqrt{1974}e^{12}, \frac{2}{1107}\sqrt{95410}e^{13}, \frac{4}{1107}\sqrt{1974}e^{26},$ $\frac{2}{1107}\sqrt{19082}e^{16} + \frac{2}{1107}\sqrt{95410}e^{28}$	$(-\frac{68}{1107}, -\frac{34}{1107}, \frac{488}{1107}, \frac{17}{41}, -\frac{199}{1107}, -\frac{34}{1107}, \frac{140}{369}, -\frac{136}{1107}, -\frac{170}{1107})$ $+ \frac{4}{123}\sqrt{658}e^3 \otimes e_9 + \frac{4}{1107}e^4 \otimes e_5$	{23478, 23578, 4689, 5689}
9421:35	$0, 0, 0, 0, 0, \frac{12}{2623}\sqrt{10573}e^{12}, \frac{12}{2623}\sqrt{7954}e^{13}, \frac{4}{2623}\sqrt{39867}e^{26},$ $\frac{4}{2623}\sqrt{136479}e^{16} + \frac{4}{2623}\sqrt{43553}e^{28}$	$(\frac{106}{2623}, \frac{53}{2623}, -\frac{670}{2623}, \frac{1041}{2623}, \frac{174}{2623}, \frac{159}{2623}, -\frac{564}{2623}, \frac{212}{2623}, \frac{265}{2623})$ $+ \frac{4}{2623}\sqrt{153454}e^1 \otimes e_3 + \frac{68}{2623}\sqrt{291}e^4 \otimes e_9$	{235689, 23689, 3458, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:35	$0, 0, 0, 0, 0, \frac{1}{1625}\sqrt{17526e^{12}}, \frac{1}{1625}\sqrt{194818e^{13}}, \frac{1}{1625}\sqrt{151130e^{26}},$ $\frac{1}{1625}\sqrt{154178e^{16}} + \frac{2}{1625}\sqrt{39243e^{28}}$	$(\frac{68}{1625}, \frac{34}{1625}, -\frac{161}{1625}, -\frac{288}{1625}, \frac{159}{1625}, \frac{102}{1625}, -\frac{93}{1625}, \frac{136}{1625}, \frac{34}{325})$ $+ \frac{1}{1625}\sqrt{113538e^3} \otimes e_4 + \frac{1}{1625}\sqrt{258826e^2} \otimes e_7$	{123569, 12369, 1457, 147}
9421:35	$0, 0, 0, 0, 0, \frac{2}{1813}\sqrt{122061e^{12}}, \frac{1}{1813}\sqrt{1007170e^{13}}, \frac{29}{1813}\sqrt{138e^{26}},$ $\frac{2}{1813}\sqrt{28681e^{16}} + \frac{2}{1813}\sqrt{172753e^{28}}$	$(-\frac{128}{1813}, -\frac{64}{1813}, \frac{347}{1813}, \frac{886}{1813}, \frac{25}{259}, -\frac{192}{1813}, \frac{219}{1813}, -\frac{256}{1813}, -\frac{320}{1813})$ $+ \frac{3}{1813}\sqrt{105386e^4} \otimes e_7 + \frac{3}{1813}\sqrt{137402e^3} \otimes e_9$	{125679, 12679, 134, 1345}
9421:35	$0, 0, 0, 0, 0, \frac{3}{71}\sqrt{354e^{12}}, \frac{1}{71}\sqrt{590e^{13}}, \frac{2}{71}\sqrt{177e^{26}},$ $\frac{1}{71}\sqrt{3422e^{16}} + \frac{1}{71}\sqrt{1770e^{28}}$	$(\frac{10}{71}, \frac{5}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{11}{71}, \frac{15}{71}, \frac{16}{71}, \frac{20}{71}, \frac{25}{71})$ $+ \frac{2}{71}\sqrt{1770e^1} \otimes e_4$	{23456789, 2346789, 245689, 24689, 34578, 3478, 458, 48}
9421:35	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{906e^{12}}, \frac{2}{189}\sqrt{1510e^{13}}, \frac{4}{189}\sqrt{453e^{26}},$ $\frac{2}{189}\sqrt{302e^{16}} + \frac{2}{189}\sqrt{1510e^{28}}$	$(\frac{20}{189}, \frac{10}{189}, \frac{4}{27}, 1, -\frac{113}{189}, \frac{10}{63}, \frac{16}{63}, \frac{40}{189}, \frac{50}{189})$ $+ \frac{302}{189}e^4 \otimes e_5$	{234679, 235679, 2469, 2569, 347, 357, 4, 5}
9421:35	$0, 0, 0, 0, 0, \frac{57}{4919}\sqrt{46e^{12}}, \frac{19}{4919}\sqrt{4330e^{13}}, \frac{95}{4919}\sqrt{134e^{26}},$ $\frac{19}{4919}\sqrt{3290e^{16}} + \frac{114}{4919}\sqrt{102e^{28}}$	$(\frac{152}{4919}, \frac{76}{4919}, -\frac{437}{4919}, -\frac{798}{4919}, \frac{741}{4919}, \frac{228}{4919}, -\frac{285}{4919}, \frac{304}{4919}, \frac{380}{4919})$ $+ \frac{19}{4919}\sqrt{2526e^3} \otimes e_4 + \frac{19}{4919}\sqrt{5830e^2} \otimes e_7 + \frac{38}{4919}\sqrt{138e^5} \otimes e_9$	{12369, 1457}
9421:35	$0, 0, 0, 0, 0, \frac{3}{397}\sqrt{226e^{12}}, \frac{1}{397}\sqrt{41810e^{13}}, \frac{2}{397}\sqrt{10622e^{26}},$ $\frac{3}{397}\sqrt{37742e^{16}} + \frac{1}{397}\sqrt{41810e^{28}}$	$(\frac{30}{397}, \frac{15}{397}, -\frac{128}{397}, \frac{57}{397}, \frac{57}{397}, \frac{45}{397}, -\frac{98}{397}, \frac{60}{397}, \frac{75}{397})$ $+ \frac{2}{397}\sqrt{19210e^2} \otimes e_7$	{123458, 12348, 1238, 1456789, 146789, 16789}
9421:35	$0, 0, 0, 0, 0, \frac{6}{907}\sqrt{226e^{12}}, \frac{2}{907}\sqrt{41810e^{13}}, \frac{4}{907}\sqrt{10622e^{26}},$ $\frac{2}{907}\sqrt{37742e^{16}} + \frac{2}{907}\sqrt{41810e^{28}}$	$(\frac{60}{907}, \frac{30}{907}, -\frac{256}{907}, \frac{227}{907}, \frac{1}{907}, \frac{90}{907}, -\frac{196}{907}, \frac{120}{907}, \frac{150}{907})$ $+ \frac{226}{907}e^4 \otimes e_5 + \frac{4}{907}\sqrt{19210e^2} \otimes e_7$	{12348, 12358, 146789, 156789}
9421:35	$0, 0, 0, 0, 0, \frac{18}{139}\sqrt{14e^{12}}, \frac{2}{139}\sqrt{210e^{13}}, \frac{2}{139}\sqrt{658e^{26}},$ $\frac{4}{139}\sqrt{77e^{16}} + \frac{4}{139}\sqrt{70e^{28}}$	$(\frac{15}{139}, \frac{15}{278}, \frac{9}{139}, -\frac{41}{139}, -\frac{97}{278}, \frac{45}{139}, \frac{24}{139}, \frac{30}{139}, \frac{75}{278})$ $+ \frac{2}{139}\sqrt{1610e^1} \otimes e_4 + \frac{4}{139}\sqrt{455e^2} \otimes e_5$	{234679, 2469, 3457, 45}
9421:35	$0, 0, 0, 0, 0, \frac{18}{793}\sqrt{6e^{12}}, \frac{18}{793}\sqrt{235e^{13}}, \frac{9}{793}\sqrt{42e^{26}},$ $\frac{18}{793}\sqrt{94e^{16}} + \frac{36}{793}\sqrt{22e^{28}}$	$(-\frac{18}{793}, -\frac{9}{793}, \frac{9}{61}, \frac{180}{793}, \frac{261}{793}, -\frac{27}{793}, \frac{99}{793}, -\frac{36}{793}, -\frac{45}{793})$ $+ \frac{9}{793}\sqrt{1158e^3} \otimes e_9 + \frac{9}{793}\sqrt{794e^5} \otimes e_7 + \frac{9}{793}\sqrt{970e^1} \otimes e_4$	{123568, 1789}
9421:35	$0, 0, 0, 0, 0, \frac{24}{311}\sqrt{10e^{12}}, \frac{8}{311}\sqrt{282e^{13}}, \frac{20}{311}\sqrt{66e^{26}},$ $\frac{8}{311}\sqrt{303e^{16}} + \frac{12}{311}\sqrt{170e^{28}}$	$(\frac{22}{311}, \frac{11}{311}, -\frac{76}{933}, \frac{422}{933}, -\frac{133}{311}, \frac{33}{311}, -\frac{10}{933}, \frac{44}{311}, \frac{55}{311})$ $+ \frac{4}{311}\sqrt{3066e^2} \otimes e_5 + \frac{8}{311}\sqrt{465e^4} \otimes e_7$	{12348, 1278, 1345689, 156789}
9421:35	$0, 0, 0, 0, 0, \frac{4}{189}\sqrt{410e^{12}}, \frac{2}{189}\sqrt{82e^{13}}, \frac{2}{189}\sqrt{697e^{26}},$ $\frac{2}{189}\sqrt{2870e^{16}} + \frac{2}{189}\sqrt{246e^{28}}$	$(\frac{4}{189}, \frac{2}{189}, \frac{17}{189}, \frac{92}{189}, -\frac{26}{63}, \frac{2}{63}, \frac{1}{9}, \frac{8}{189}, \frac{10}{189})$ $+ \frac{2}{189}\sqrt{2993e^4} \otimes e_9 + \frac{2}{189}\sqrt{3977e^1} \otimes e_5$	{2356789, 25689, 34578, 458}
9421:36	$0, 0, 0, 0, 0, \frac{2}{693}\sqrt{12990e^{12}}, \frac{2}{693}\sqrt{109982e^{34}}, \frac{2}{693}\sqrt{12990e^{16}},$ $\frac{2}{693}\sqrt{18619e^{18}} + \frac{2}{693}\sqrt{18619e^{26}} + \frac{2}{693}\sqrt{29877e^{35}}$	$(\frac{10}{231}, \frac{20}{231}, \frac{508}{693}, -\frac{11}{63}, -\frac{358}{693}, \frac{10}{77}, \frac{43}{77}, \frac{40}{231}, \frac{50}{231})$ $+ \frac{8}{693}\sqrt{15155e^3} \otimes e_5$	{34, 37, 457, 5}
9421:36	$0, 0, 0, 0, 0, \frac{13}{2169}\sqrt{390e^{12}}, \frac{13}{2169}\sqrt{7310e^{34}}, \frac{13}{2169}\sqrt{390e^{16}},$ $\frac{247}{2169}\sqrt{10e^{18}} + \frac{247}{2169}\sqrt{10e^{26}} + \frac{52}{2169}\sqrt{15e^{35}}$	$(-\frac{13}{723}, -\frac{26}{723}, \frac{325}{2169}, \frac{650}{2169}, -\frac{520}{2169}, -\frac{13}{241}, \frac{325}{723}, -\frac{52}{723}, -\frac{65}{723})$ $+ \frac{13}{2169}\sqrt{11370e^4} \otimes e_9 + \frac{26}{2169}\sqrt{1970e^3} \otimes e_5$	{123468, 1245678}
9421:36	$0, 0, 0, 0, 0, \frac{92}{1337}\sqrt{57e^{12}}, \frac{23}{1337}\sqrt{829e^{34}}, \frac{23}{1337}\sqrt{249e^{16}},$ $\frac{69}{1337}\sqrt{53e^{18}} + \frac{69}{1337}\sqrt{119e^{26}} + \frac{46}{1337}\sqrt{57e^{35}}$	$(\frac{69}{1337}, \frac{138}{1337}, \frac{69}{1337}, -\frac{460}{1337}, \frac{276}{1337}, \frac{207}{1337}, -\frac{391}{1337}, \frac{276}{1337}, \frac{345}{1337})$ $+ \frac{23}{1337}\sqrt{415e^3} \otimes e_4 + \frac{69}{1337}\sqrt{215e^2} \otimes e_7$	{1356789, 146789, 378, 4578}
9421:36	$0, 0, 0, 0, 0, \frac{92}{1337}\sqrt{57e^{12}}, \frac{23}{1337}\sqrt{829e^{34}}, \frac{23}{1337}\sqrt{249e^{16}},$ $\frac{69}{1337}\sqrt{53e^{18}} + \frac{69}{1337}\sqrt{119e^{26}} + \frac{46}{1337}\sqrt{57e^{35}}$	$(\frac{69}{1337}, \frac{138}{1337}, \frac{69}{1337}, -\frac{460}{1337}, \frac{276}{1337}, \frac{207}{1337}, -\frac{391}{1337}, \frac{276}{1337}, \frac{345}{1337})$ $- \frac{23}{1337}\sqrt{415e^3} \otimes e_4 + \frac{69}{1337}\sqrt{215e^2} \otimes e_7$	{1356789, 146789, 378, 4578}
9421:36	$0, 0, 0, 0, 0, \frac{1}{117}\sqrt{258e^{12}}, \frac{2}{117}\sqrt{1806e^{34}}, \frac{1}{39}\sqrt{258e^{16}},$ $\frac{1}{117}\sqrt{1290e^{18}} + \frac{1}{117}\sqrt{1290e^{26}} + \frac{1}{39}\sqrt{946e^{35}}$	$(\frac{1}{13}, \frac{2}{13}, -\frac{1}{3}, -\frac{2}{39}, \frac{28}{39}, \frac{3}{13}, -\frac{5}{13}, \frac{4}{13}, \frac{5}{13})$ $+ \frac{1}{117}\sqrt{24510e^5} \otimes e_7$	{13456, 1467, 379, 59}
9421:36	$0, 0, 0, 0, 0, \frac{26}{4249}\sqrt{478e^{12}}, \frac{1014}{4249}e^{34}, \frac{26}{4249}\sqrt{943e^{16}},$ $\frac{26}{4249}\sqrt{1370e^{18}} + \frac{130}{4249}e^{26} + \frac{26}{4249}\sqrt{314e^{35}}$	$(\frac{13}{4249}, \frac{26}{4249}, -\frac{104}{607}, \frac{403}{4249}, \frac{793}{4249}, \frac{39}{4249}, -\frac{325}{4249}, \frac{52}{4249}, \frac{65}{4249})$ $+ \frac{130}{4249}\sqrt{93e^1} \otimes e_7 + \frac{442}{4249}\sqrt{5e^4} \otimes e_9$	{12348, 2356789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:36	$0, 0, 0, 0, 0, \frac{129}{5687}\sqrt{2}e^{12}, \frac{86}{5687}\sqrt{886}e^{34}, \frac{688}{5687}\sqrt{15}e^{16},$ $\frac{172}{5687}\sqrt{210}e^{18} + \frac{43}{5687}\sqrt{1626}e^{26} + \frac{129}{5687}\sqrt{82}e^{35}$	$(\frac{258}{5687}, \frac{516}{5687}, \frac{129}{5687}, -\frac{1720}{5687}, \frac{1161}{5687}, \frac{774}{5687}, -\frac{1591}{5687}, \frac{1032}{5687}, \frac{1290}{5687})$ $+ \frac{43}{5687}\sqrt{8310}e^1 \otimes e_7 + \frac{86}{5687}\sqrt{370}e^3 \otimes e_4$	{2356789, 246789}
9421:36	$0, 0, 0, 0, 0, \frac{25}{5747}\sqrt{6}e^{12}, \frac{50}{5747}\sqrt{15}e^{34}, \frac{25}{5747}\sqrt{6}e^{16},$ $\frac{5}{5747}\sqrt{1830}e^{18} + \frac{5}{5747}\sqrt{1830}e^{26} + \frac{25}{5747}\sqrt{910}e^{35}$	$(\frac{5}{83}, \frac{10}{83}, \frac{25}{249}, -\frac{100}{249}, \frac{50}{249}, \frac{15}{83}, -\frac{25}{83}, \frac{20}{83}, \frac{25}{83})$ $+ \frac{10}{83}\sqrt{30}e^3 \otimes e_4 + \frac{5}{5747}\sqrt{10470}e^5 \otimes e_7$	{1467, 379}
9421:36	$0, 0, 0, 0, 0, \frac{4}{667}\sqrt{5871}e^{12}, \frac{4}{667}\sqrt{5459}e^{34}, \frac{4}{667}\sqrt{5871}e^{16},$ $\frac{12}{667}\sqrt{618}e^{18} + \frac{12}{667}\sqrt{618}e^{26} + \frac{8}{667}\sqrt{7107}e^{35}$	$(\frac{57}{667}, \frac{114}{667}, \frac{444}{667}, -\frac{380}{667}, -\frac{159}{667}, \frac{171}{667}, \frac{64}{667}, \frac{228}{667}, \frac{285}{667})$ $+ \frac{20}{667}\sqrt{2266}e^3 \otimes e_4$	{1356, 146, 39, 459}
9421:36	$0, 0, 0, 0, 0, \frac{43}{9697}\sqrt{5374}e^{12}, \frac{43}{9697}\sqrt{7642}e^{34}, \frac{86}{9697}\sqrt{446}e^{16},$ $\frac{43}{9697}\sqrt{2398}e^{18} + \frac{129}{9697}\sqrt{794}e^{26} + \frac{86}{9697}\sqrt{883}e^{35}$	$(\frac{301}{9697}, \frac{602}{9697}, \frac{1677}{9697}, -\frac{2924}{9697}, -\frac{172}{9697}, \frac{903}{9697}, -\frac{1247}{9697}, \frac{1204}{9697}, \frac{1505}{9697})$ $+ \frac{387}{9697}\sqrt{70}e^3 \otimes e_5 + \frac{43}{9697}\sqrt{11930}e^2 \otimes e_7$	{378, 4578}
9421:36	$0, 0, 0, 0, 0, \frac{27}{8797}\sqrt{3830}e^{12}, \frac{81}{8797}\sqrt{714}e^{34}, \frac{27}{8797}\sqrt{1834}e^{16},$ $\frac{27}{8797}\sqrt{386}e^{18} + \frac{27}{8797}\sqrt{7166}e^{26} + \frac{54}{8797}\sqrt{421}e^{35}$	$(\frac{27}{8797}, \frac{54}{8797}, -\frac{81}{463}, \frac{864}{8797}, \frac{1674}{8797}, \frac{81}{8797}, -\frac{675}{8797}, \frac{108}{8797}, \frac{135}{8797})$ $+ \frac{108}{8797}\sqrt{590}e^2 \otimes e_7 + \frac{27}{8797}\sqrt{6490}e^4 \otimes e_9$	{1356789, 4578}
9421:36	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{3962}e^{12}, \frac{1}{359}\sqrt{62826}e^{34}, \frac{1}{359}\sqrt{3962}e^{16},$ $\frac{1}{359}\sqrt{48110}e^{18} + \frac{1}{359}\sqrt{48110}e^{26} + \frac{2}{359}\sqrt{3679}e^{35}$	$(-\frac{7}{359}, -\frac{14}{359}, -\frac{73}{359}, \frac{248}{359}, \frac{38}{359}, -\frac{21}{359}, \frac{175}{359}, -\frac{28}{359}, -\frac{35}{359})$ $+ \frac{1}{359}\sqrt{166970}e^4 \otimes e_9$	{1234568, 124678, 23789, 2589}
9421:36	$0, 0, 0, 0, 0, \frac{1}{361}\sqrt{19558}e^{12}, \frac{2}{361}\sqrt{8763}e^{34}, \frac{2}{361}\sqrt{8763}e^{16},$ $\frac{2}{361}\sqrt{8255}e^{18} + \frac{1}{361}\sqrt{13462}e^{26} + \frac{1}{361}\sqrt{13462}e^{35}$	$(\frac{16}{361}, \frac{32}{361}, -\frac{29}{361}, -\frac{82}{361}, \frac{109}{361}, \frac{48}{361}, -\frac{111}{361}, \frac{64}{361}, \frac{80}{361})$ $+ \frac{1}{361}\sqrt{77470}e^1 \otimes e_7$	{12348, 1258, 2356789, 246789}
9421:36	$0, 0, 0, 0, 0, \frac{4}{683}\sqrt{10027}e^{12}, \frac{4}{683}\sqrt{10027}e^{34}, \frac{4}{683}\sqrt{3071}e^{16},$ $\frac{4}{683}\sqrt{4810}e^{18} + \frac{12}{683}\sqrt{1406}e^{26} + \frac{4}{683}\sqrt{4810}e^{35}$	$(\frac{35}{683}, \frac{70}{683}, -\frac{48}{683}, -\frac{178}{683}, \frac{223}{683}, \frac{105}{683}, -\frac{226}{683}, \frac{140}{683}, \frac{175}{683})$ $+ \frac{4}{683}\sqrt{21830}e^2 \otimes e_7$	{1356789, 146789, 378, 4578}
9421:36	$0, 0, 0, 0, 0, \frac{156}{9853}\sqrt{187}e^{12}, \frac{39}{9853}\sqrt{7558}e^{34}, \frac{39}{9853}\sqrt{5438}e^{16},$ $\frac{39}{9853}\sqrt{5430}e^{18} + \frac{234}{9853}\sqrt{53}e^{26} + \frac{78}{9853}\sqrt{742}e^{35}$	$(\frac{273}{9853}, \frac{546}{9853}, \frac{1443}{9853}, \frac{2691}{9853}, -\frac{78}{9853}, \frac{819}{9853}, -\frac{1248}{9853}, \frac{1092}{9853}, \frac{1365}{9853})$ $+ \frac{390}{9853}\sqrt{53}e^3 \otimes e_5 + \frac{39}{9853}\sqrt{12230}e^1 \otimes e_7$	{12348, 1258}
9421:37	$0, 0, 0, 0, 0, \frac{16}{227}\sqrt{23}e^{12}, \frac{80}{227}\sqrt{3}e^{13} + \frac{8}{227}\sqrt{70}e^{45}, \frac{16}{227}\sqrt{38}e^{16},$ $\frac{8}{227}\sqrt{66}e^{18} + \frac{8}{227}\sqrt{246}e^{26}$	$(-\frac{8}{227}, -\frac{16}{227}, \frac{88}{227}, \frac{104}{227}, -\frac{24}{227}, -\frac{24}{227}, \frac{80}{227}, -\frac{32}{227}, -\frac{40}{227})$ $+ \frac{128}{227}e^4 \otimes e_5 + \frac{8}{227}\sqrt{562}e^3 \otimes e_9$	{123468, 123568, 2489, 2589}
9421:37	$0, 0, 0, 0, 0, \frac{16}{227}\sqrt{23}e^{12}, \frac{80}{227}\sqrt{3}e^{13} + \frac{8}{227}\sqrt{70}e^{45}, \frac{16}{227}\sqrt{38}e^{16},$ $\frac{8}{227}\sqrt{66}e^{18} + \frac{8}{227}\sqrt{246}e^{26}$	$(-\frac{8}{227}, -\frac{16}{227}, \frac{88}{227}, \frac{104}{227}, -\frac{24}{227}, -\frac{24}{227}, \frac{80}{227}, -\frac{32}{227}, -\frac{40}{227})$ $- \frac{128}{227}e^4 \otimes e_5 + \frac{8}{227}\sqrt{562}e^3 \otimes e_9$	{123468, 123568, 2489, 2589}
9421:37	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57}e^{12}, \frac{10}{169}\sqrt{61}e^{13} + \frac{60}{169}e^{45}, \frac{20}{169}\sqrt{11}e^{16},$ $\frac{30}{169}\sqrt{7}e^{18} + \frac{20}{169}\sqrt{23}e^{26}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{40}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{40}{169}, \frac{50}{169})$ $+ \frac{20}{169}\sqrt{37}e^2 \otimes e_7$	{146789, 3478}
9421:37	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{149}e^{12}, \frac{35}{349}\sqrt{6}e^{13} + \frac{5}{349}\sqrt{197}e^{45}, \frac{60}{349}\sqrt{2}e^{16},$ $\frac{15}{349}\sqrt{35}e^{18} + \frac{5}{349}\sqrt{102}e^{26}$	$(\frac{5}{349}, \frac{10}{349}, -\frac{20}{349}, \frac{50}{349}, -\frac{65}{349}, \frac{15}{349}, -\frac{15}{349}, \frac{20}{349}, \frac{25}{349})$ $+ \frac{5}{349}\sqrt{230}e^4 \otimes e_9 + \frac{5}{349}\sqrt{401}e^1 \otimes e_3$	{12458, 23689}
9421:37	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{57}e^{12}, \frac{5}{97}\sqrt{61}e^{13} + \frac{30}{97}e^{45}, \frac{10}{97}\sqrt{11}e^{16},$ $\frac{15}{97}\sqrt{7}e^{18} + \frac{10}{97}\sqrt{23}e^{26}$	$(\frac{5}{97}, \frac{10}{97}, -\frac{20}{97}, \frac{5}{97}, -\frac{20}{97}, \frac{15}{97}, -\frac{15}{97}, \frac{20}{97}, \frac{25}{97})$ $+ \frac{10}{97}\sqrt{37}e^2 \otimes e_7 + \frac{25}{97}e^4 \otimes e_5$	{146789, 156789, 3478, 3578}
9421:37	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{57}e^{12}, \frac{5}{97}\sqrt{61}e^{13} + \frac{30}{97}e^{45}, \frac{10}{97}\sqrt{11}e^{16},$ $\frac{15}{97}\sqrt{7}e^{18} + \frac{10}{97}\sqrt{23}e^{26}$	$(\frac{5}{97}, \frac{10}{97}, -\frac{20}{97}, \frac{5}{97}, -\frac{20}{97}, \frac{15}{97}, -\frac{15}{97}, \frac{20}{97}, \frac{25}{97})$ $+ \frac{10}{97}\sqrt{37}e^2 \otimes e_7 - \frac{25}{97}e^4 \otimes e_5$	{146789, 156789, 3478, 3578}
9421:37	$0, 0, 0, 0, 0, \frac{7}{339}\sqrt{429}e^{12}, \frac{7}{339}\sqrt{55}e^{13} + \frac{28}{339}\sqrt{33}e^{45}, \frac{14}{339}\sqrt{110}e^{16},$ $\frac{7}{113}\sqrt{33}e^{18} + \frac{14}{339}\sqrt{66}e^{26}$	$(\frac{19}{339}, \frac{38}{339}, \frac{24}{113}, \frac{105}{113}, -\frac{224}{339}, \frac{19}{113}, \frac{91}{339}, \frac{76}{339}, \frac{95}{339})$ $+ \frac{539}{339}e^4 \otimes e_5$	{134679, 135679, 47, 57}
9421:37	$0, 0, 0, 0, 0, \frac{5}{1417}\sqrt{2046}e^{12}, \frac{1}{1417}\sqrt{624030}e^{13} + \frac{2}{1417}\sqrt{293601}e^{45},$ $\frac{2}{1417}\sqrt{43989}e^{16}, \frac{2}{1417}\sqrt{240405}e^{18} + \frac{1}{1417}\sqrt{587202}e^{26}$	$(-\frac{36}{1417}, -\frac{72}{1417}, \frac{5}{13}, \frac{843}{1417}, -\frac{334}{1417}, -\frac{108}{1417}, \frac{509}{1417}, -\frac{144}{1417}, -\frac{180}{1417})$ $+ \frac{11}{1417}\sqrt{19902}e^4 \otimes e_9$	{135679, 169, 345, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:37	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{149}e^{12}, \frac{5}{349}\sqrt{107}e^{13} + \frac{5}{349}\sqrt{197}e^{45}, \frac{5}{349}\sqrt{113}e^{16},$ $\frac{5}{349}\sqrt{86}e^{18} + \frac{5}{349}\sqrt{299}e^{26}$	$(\frac{5}{349}, \frac{10}{349}, -\frac{20}{349}, \frac{50}{349}, -\frac{65}{349}, \frac{15}{349}, -\frac{15}{349}, \frac{20}{349}, \frac{25}{349})$ $+ \frac{5}{349}\sqrt{230}e^4 \otimes e_9 + \frac{5}{349}\sqrt{401}e^2 \otimes e_7$	{156789, 3478}
9421:37	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57}e^{12}, \frac{10}{169}\sqrt{87}e^{13} + \frac{60}{169}e^{45}, \frac{20}{169}\sqrt{26}e^{16},$ $\frac{10}{169}\sqrt{85}e^{18} + \frac{20}{169}\sqrt{14}e^{26}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{40}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{40}{169}, \frac{50}{169})$ $+ \frac{20}{169}\sqrt{37}e^1 \otimes e_3$	{12458, 128, 2345689, 23689}
9421:37	$0, 0, 0, 0, 0, \frac{16}{163}\sqrt{23}e^{12}, \frac{80}{163}\sqrt{3}e^{13} + \frac{8}{163}\sqrt{70}e^{45}, \frac{16}{163}\sqrt{38}e^{16},$ $\frac{8}{163}\sqrt{66}e^{18} + \frac{8}{163}\sqrt{246}e^{26}$	$(-\frac{8}{163}, -\frac{16}{163}, \frac{88}{163}, \frac{40}{163}, \frac{40}{163}, -\frac{24}{163}, \frac{80}{163}, -\frac{32}{163}, -\frac{40}{163})$ $+ \frac{8}{163}\sqrt{562}e^3 \otimes e_9$	{123468, 2489}
9421:38	$0, 0, 0, 0, 0, \frac{85}{349}\sqrt{6}e^{12}, \frac{17}{349}\sqrt{290}e^{13} + \frac{34}{349}\sqrt{15}e^{45}, \frac{34}{349}\sqrt{6}e^{26},$ $\frac{17}{349}\sqrt{38}e^{16} + \frac{51}{349}\sqrt{30}e^{28}$	$(-\frac{34}{349}, -\frac{17}{349}, \frac{204}{349}, \frac{85}{349}, \frac{85}{349}, -\frac{51}{349}, \frac{170}{349}, -\frac{68}{349}, -\frac{85}{349})$ $+ \frac{238}{349}\sqrt{3}e^3 \otimes e_9$	{234578, 2378, 4689}
9421:38	$0, 0, 0, 0, 0, \frac{4}{187}\sqrt{51}e^{12}, \frac{4}{187}\sqrt{271}e^{13} + \frac{4}{187}\sqrt{159}e^{45}, \frac{4}{187}\sqrt{341}e^{26},$ $\frac{20}{187}\sqrt{11}e^{16} + \frac{72}{187}e^{28}$	$(\frac{16}{187}, \frac{8}{187}, -\frac{40}{187}, -\frac{12}{187}, -\frac{12}{187}, \frac{24}{187}, -\frac{24}{187}, \frac{32}{187}, \frac{40}{187})$ $+ \frac{28}{187}\sqrt{13}e^2 \otimes e_7$	{123458, 1238, 146789}
9421:38	$0, 0, 0, 0, 0, \frac{4}{203}\sqrt{51}e^{12}, \frac{4}{203}\sqrt{271}e^{13} + \frac{4}{203}\sqrt{159}e^{45}, \frac{4}{203}\sqrt{341}e^{26},$ $\frac{20}{203}\sqrt{11}e^{16} + \frac{72}{203}e^{28}$	$(\frac{16}{203}, \frac{8}{203}, -\frac{40}{203}, \frac{4}{203}, \frac{4}{203}, -\frac{24}{203}, \frac{24}{203}, -\frac{32}{203}, \frac{40}{203})$ $+ \frac{32}{203}e^4 \otimes e_5 + \frac{4}{29}\sqrt{13}e^2 \otimes e_7$	{146789, 156789}
9421:38	$0, 0, 0, 0, 0, \frac{2}{157}\sqrt{39}e^{12}, \frac{2}{157}\sqrt{115}e^{13} + \frac{6}{157}\sqrt{19}e^{45}, \frac{2}{157}\sqrt{185}e^{26},$ $\frac{2}{157}\sqrt{95}e^{16} + \frac{4}{157}\sqrt{57}e^{28}$	$(\frac{4}{157}, \frac{2}{157}, -\frac{10}{157}, \frac{18}{157}, -\frac{24}{157}, \frac{6}{157}, -\frac{6}{157}, \frac{8}{157}, \frac{10}{157})$ $+ \frac{2}{157}\sqrt{385}e^2 \otimes e_7 + \frac{4}{157}\sqrt{42}e^4 \otimes e_9$	{123458, 156789}
9421:38	$0, 0, 0, 0, 0, \frac{170}{987}\sqrt{6}e^{12}, \frac{34}{987}\sqrt{290}e^{13} + \frac{68}{987}\sqrt{15}e^{45}, \frac{68}{987}\sqrt{6}e^{26},$ $\frac{34}{987}\sqrt{38}e^{16} + \frac{34}{329}\sqrt{30}e^{28}$	$(-\frac{68}{987}, -\frac{34}{987}, \frac{136}{329}, \frac{153}{329}, -\frac{17}{141}, -\frac{34}{329}, \frac{340}{987}, -\frac{136}{987}, -\frac{170}{987})$ $+ \frac{578}{987}e^4 \otimes e_5 + \frac{68}{141}\sqrt{3}e^3 \otimes e_9$	{4689, 5689}
9421:38	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{634}e^{12}, \frac{2}{399}\sqrt{3170}e^{13} + \frac{4}{399}\sqrt{1902}e^{45}, \frac{4}{399}\sqrt{1902}e^{26},$ $\frac{2}{399}\sqrt{3170}e^{16} + \frac{2}{133}\sqrt{634}e^{28}$	$(\frac{44}{399}, \frac{22}{399}, \frac{24}{133}, \frac{125}{399}, \frac{37}{133}, \frac{22}{399}, \frac{116}{399}, \frac{88}{399}, \frac{110}{399})$ $+ \frac{634}{399}e^4 \otimes e_5$	{234679, 235679, 347, 357}
9421:38	$0, 0, 0, 0, 0, \frac{6}{2861}\sqrt{21809}e^{12}, \frac{6}{2861}\sqrt{74015}e^{13} + \frac{12}{2861}\sqrt{33109}e^{45},$ $\frac{60}{2861}\sqrt{226}e^{26}, \frac{12}{2861}\sqrt{29945}e^{16} + \frac{12}{2861}\sqrt{15142}e^{28}$	$(-\frac{138}{2861}, -\frac{69}{2861}, \frac{1115}{2861}, \frac{1689}{2861}, -\frac{712}{2861}, -\frac{207}{2861}, \frac{977}{2861}, -\frac{276}{2861}, -\frac{345}{2861})$ $+ \frac{294}{2861}\sqrt{113}e^4 \otimes e_9$	{123579, 129, 13467, 1456}
9421:38	$0, 0, 0, 0, 0, \frac{50}{6191}\sqrt{1194}e^{12}, \frac{25}{6191}\sqrt{4866}e^{13} + \frac{25}{6191}\sqrt{3558}e^{45},$ $\frac{150}{6191}\sqrt{58}e^{26}, \frac{25}{6191}\sqrt{7122}e^{16} + \frac{25}{6191}\sqrt{2030}e^{28}$	$(\frac{200}{6191}, \frac{100}{6191}, -\frac{425}{6191}, \frac{1125}{6191}, -\frac{1350}{6191}, \frac{300}{6191}, -\frac{225}{6191}, \frac{400}{6191}, \frac{500}{6191})$ $+ \frac{25}{6191}\sqrt{6574}e^1 \otimes e_3 + \frac{375}{6191}\sqrt{22}e^4 \otimes e_9$	{23689, 3458}
9421:38	$0, 0, 0, 0, 0, \frac{100}{2581}\sqrt{402}e^{12}, \frac{50}{2581}\sqrt{1203}e^{13} + \frac{50}{2581}\sqrt{489}e^{45},$ $\frac{300}{2581}\sqrt{14}e^{26}, \frac{200}{2581}\sqrt{111}e^{16} + \frac{200}{2581}\sqrt{65}e^{28}$	$(\frac{400}{2581}, \frac{200}{2581}, -\frac{850}{2581}, -\frac{225}{2581}, \frac{225}{2581}, \frac{600}{2581}, -\frac{450}{2581}, \frac{800}{2581}, \frac{1000}{2581})$ $+ \frac{50}{2581}\sqrt{2317}e^1 \otimes e_3$	{2345689, 23689, 3458, 38}
9421:39	$0, 0, 0, 0, 0, \frac{236}{4869}\sqrt{10}e^{12}, \frac{59}{4869}\sqrt{4614}e^{13} + \frac{118}{1623}\sqrt{31}e^{24},$ $\frac{59}{4869}\sqrt{1106}e^{16}, \frac{59}{4869}\sqrt{1698}e^{18} + \frac{236}{4869}\sqrt{141}e^{23} + \frac{236}{4869}\sqrt{262}e^{45}$	$(-\frac{59}{1623}, \frac{1298}{4869}, -\frac{59}{541}, -\frac{2006}{4869}, \frac{2773}{4869}, \frac{1121}{4869}, -\frac{236}{1623}, \frac{944}{4869}, \frac{767}{4869})$ $+ \frac{59}{1623}\sqrt{938}e^5 \otimes e_7$	{2458, 569}
9421:39	$0, 0, 0, 0, 0, \frac{19}{618}\sqrt{286}e^{12}, \frac{19}{618}\sqrt{426}e^{13} + \frac{19}{309}\sqrt{307}e^{24}, \frac{19}{309}\sqrt{70}e^{16},$ $\frac{19}{618}\sqrt{542}e^{18} + \frac{19}{103}\sqrt{2}e^{23} + \frac{19}{309}\sqrt{107}e^{45}$	$(\frac{38}{309}, -\frac{19}{103}, \frac{38}{103}, \frac{209}{309}, -\frac{152}{309}, -\frac{19}{309}, \frac{152}{309}, \frac{19}{309}, \frac{19}{103})$ $+ \frac{133}{618}\sqrt{42}e^4 \otimes e_5$	{13478, 257}
9421:40	$0, 0, 0, 0, 0, -\frac{2}{49}\sqrt{210}e^{12}, \frac{1}{49}\sqrt{1302}e^{13} + \frac{2}{49}\sqrt{105}e^{24}, \frac{3}{49}\sqrt{42}e^{16},$ $\frac{1}{49}\sqrt{210}e^{18} + \frac{2}{7}\sqrt{6}e^{25} + \frac{2}{49}\sqrt{210}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, 0, 0, \frac{1}{7})$ $+ \frac{3}{49}\sqrt{210}e^5 \otimes e_7$	{126789, 147, 2458, 569, 126789, 147, 2458, 569}
9421:40	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{210}e^{12}, \frac{1}{49}\sqrt{1302}e^{13} + \frac{2}{49}\sqrt{105}e^{24}, \frac{3}{49}\sqrt{42}e^{16},$ $\frac{1}{49}\sqrt{210}e^{18} + \frac{2}{7}\sqrt{6}e^{25} + \frac{2}{49}\sqrt{210}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, 0, 0, \frac{1}{7})$ $+ \frac{3}{49}\sqrt{210}e^5 \otimes e_7$	{126789, 147, 2458, 569, 126789, 147, 2458, 569}
9421:41	$0, 0, 0, 0, 0, \frac{8}{3681}\sqrt{46246}e^{12}, \frac{8}{3681}\sqrt{20689}e^{13}, \frac{2}{3681}\sqrt{290863}e^{16},$ $\frac{8}{1227}\sqrt{55982}e^{18} + \frac{2}{3681}\sqrt{708294}e^{37}$	$(-\frac{544}{3681}, \frac{1358}{3681}, \frac{15}{409}, \frac{240}{409}, -\frac{1076}{3681}, \frac{814}{3681}, -\frac{1}{9}, \frac{30}{409}, -\frac{274}{3681})$ $+ \frac{14}{3681}\sqrt{42595}e^4 \otimes e_9 + \frac{26}{1227}\sqrt{1217}e^2 \otimes e_5$	{123478, 1248, 23689, 26789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:41	$0, 0, 0, 0, 0, \frac{8}{369}\sqrt{157e^{12}}, \frac{4}{369}\sqrt{2355e^{13}}, \frac{2}{369}\sqrt{2041e^{16}},$ $\frac{1}{369}\sqrt{4710e^{18}} + \frac{1}{369}\sqrt{20410e^{37}}$	$(\frac{23}{123}, -\frac{88}{369}, \frac{25}{369}, -\frac{44}{123}, \frac{13}{123}, -\frac{19}{369}, \frac{94}{369}, \frac{50}{369}, \frac{119}{369})$ $+ \frac{1}{123}\sqrt{5966e^3} \otimes e_4 + \frac{1}{369}\sqrt{49926e^1} \otimes e_2$	{2357, 237, 24, 245}
9421:41	$0, 0, 0, 0, 0, \frac{4}{3843}\sqrt{87271e^{12}}, \frac{8}{3843}\sqrt{2561e^{13}}, \frac{4}{3843}\sqrt{154054e^{16}},$ $\frac{4}{1281}\sqrt{22261e^{18}} + \frac{4}{1281}\sqrt{6501e^{37}}$	$(\frac{104}{3843}, \frac{20}{3843}, \frac{38}{1281}, \frac{212}{427}, -\frac{1472}{3843}, \frac{124}{3843}, \frac{218}{3843}, \frac{76}{1281}, \frac{332}{3843})$ $+ \frac{4}{1281}\sqrt{42355e^1} \otimes e_5 + \frac{68}{3843}\sqrt{985e^4} \otimes e_9$	{1369, 1679, 3457, 45}
9421:41	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{749e^{12}}, \frac{1}{67}\sqrt{321e^{13}}, \frac{2}{67}\sqrt{214e^{16}},$ $\frac{1}{67}\sqrt{321e^{18}} + \frac{2}{67}\sqrt{214e^{37}}$	$(\frac{3}{67}, \frac{10}{67}, \frac{8}{67}, 1, -\frac{40}{67}, \frac{13}{67}, \frac{11}{67}, \frac{16}{67}, \frac{19}{67})$ $+ \frac{107}{67}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 347, 357, 4, 5}
9421:41	$0, 0, 0, 0, 0, \frac{4}{3139}\sqrt{88239e^{12}}, \frac{2}{3139}\sqrt{698010e^{13}}, \frac{20}{3139}\sqrt{1317e^{16}},$ $\frac{2}{3139}\sqrt{506606e^{18}} + \frac{2}{3139}\sqrt{771762e^{37}}$	$(-\frac{125}{3139}, \frac{14}{43}, \frac{386}{3139}, -\frac{734}{3139}, -\frac{1370}{3139}, \frac{897}{3139}, \frac{261}{3139}, \frac{772}{3139}, \frac{647}{3139})$ $+ \frac{14}{3139}\sqrt{30730e^3} \otimes e_5 + \frac{2}{3139}\sqrt{947362e^2} \otimes e_4$	{134689, 1456789, 3478, 458}
9421:41	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{19e^{12}}, \frac{4}{51}\sqrt{19e^{13}}, \frac{2}{51}\sqrt{114e^{16}},$ $\frac{2}{51}\sqrt{399e^{18}} + \frac{1}{51}\sqrt{1406e^{37}}$	$(-\frac{16}{153}, \frac{10}{51}, -\frac{1}{153}, 1, \frac{28}{153}, \frac{14}{153}, -\frac{1}{9}, -\frac{2}{153}, -\frac{2}{17})$ $+ \frac{5}{51}\sqrt{190e^4} \otimes e_9$	{134578, 13478, 1458, 148, 35689, 3689, 56789, 6789}
9421:41	$0, 0, 0, 0, 0, \frac{1}{271}\sqrt{69834e^{12}}, \frac{1}{271}\sqrt{12882e^{13}}, \frac{1}{271}\sqrt{15594e^{16}},$ $\frac{1}{271}\sqrt{12882e^{18}} + \frac{1}{271}\sqrt{15594e^{37}}$	$(-\frac{38}{271}, \frac{168}{271}, \frac{46}{271}, -\frac{171}{271}, \frac{50}{271}, \frac{130}{271}, \frac{8}{271}, \frac{92}{271}, \frac{54}{271})$ $+ \frac{1}{271}\sqrt{149838e^2} \otimes e_4$	{134567, 13467, 1456, 146, 3459, 349, 4579, 479}
9421:41	$0, 0, 0, 0, 0, \frac{8}{1323}\sqrt{1111e^{12}}, \frac{1}{1323}\sqrt{1326534e^{13}}, \frac{1}{1323}\sqrt{295526e^{16}},$ $\frac{101}{1323}\sqrt{66e^{18}} + \frac{2}{1323}\sqrt{301081e^{37}}$	$(\frac{23}{441}, \frac{230}{1323}, \frac{184}{1323}, -\frac{103}{147}, \frac{22}{147}, \frac{299}{1323}, \frac{253}{1323}, \frac{368}{1323}, \frac{437}{1323})$ $+ \frac{5}{441}\sqrt{11110e^3} \otimes e_4$	{1235689, 123689, 12456789, 1246789, 23578, 2378, 2458, 248}
9421:41	$0, 0, 0, 0, 0, \frac{3}{253}\sqrt{1921e^{12}}, \frac{51}{253}\sqrt{3e^{13}}, \frac{3}{253}\sqrt{646e^{16}},$ $\frac{3}{253}\sqrt{1105e^{18}} + \frac{12}{253}\sqrt{102e^{37}}$	$(-\frac{51}{253}, \frac{120}{253}, \frac{9}{253}, \frac{108}{253}, -\frac{45}{253}, \frac{3}{11}, -\frac{42}{253}, \frac{18}{253}, -\frac{3}{23})$ $+ \frac{153}{253}e^4 \otimes e_5 + \frac{3}{253}\sqrt{4930e^2} \otimes e_9$	{123478, 123578, 1248, 1258}
9421:41	$0, 0, 0, 0, 0, \frac{3}{383}\sqrt{1855e^{12}}, \frac{3}{766}\sqrt{8610e^{13}}, \frac{15}{766}\sqrt{35e^{16}},$ $\frac{3}{383}\sqrt{455e^{18}} + \frac{6}{383}\sqrt{1155e^{37}}$	$(-\frac{105}{766}, \frac{309}{766}, \frac{99}{1532}, -\frac{531}{1532}, \frac{171}{383}, \frac{102}{11}, -\frac{111}{1532}, \frac{99}{766}, -\frac{3}{383})$ $+ \frac{3}{766}\sqrt{23065e^2} \otimes e_9 + \frac{9}{766}\sqrt{2730e^3} \otimes e_4$	{135689, 13689, 1456789, 146789}
9421:41	$0, 0, 0, 0, 0, \frac{2}{1375}\sqrt{66729e^{12}}, \frac{118}{1375}\sqrt{3e^{13}}, \frac{2}{1375}\sqrt{49737e^{16}},$ $\frac{6}{1375}\sqrt{5959e^{18}} + \frac{4}{1375}\sqrt{6549e^{37}}$	$(-\frac{118}{1375}, \frac{74}{275}, \frac{67}{1375}, -\frac{472}{1375}, \frac{156}{1375}, \frac{252}{1375}, -\frac{51}{1375}, \frac{134}{1375}, \frac{16}{1375})$ $+ \frac{4}{1375}\sqrt{27789e^1} \otimes e_4 + \frac{6}{1375}\sqrt{11623e^2} \otimes e_9$	{123578, 12378, 1258, 128}
9421:41	$0, 0, 0, 0, 0, \frac{164}{6813}\sqrt{70e^{12}}, \frac{41}{6813}\sqrt{2778e^{13}}, \frac{41}{6813}\sqrt{910e^{16}},$ $\frac{41}{2271}\sqrt{190e^{18}} + \frac{164}{6813}\sqrt{157e^{37}}$	$(\frac{205}{6813}, -\frac{1066}{6813}, \frac{82}{6813}, -\frac{533}{2271}, \frac{820}{2271}, -\frac{451}{6813}, \frac{697}{6813}, \frac{164}{6813}, \frac{779}{6813})$ $+ \frac{164}{6813}\sqrt{237e^5} \otimes e_9 + \frac{41}{6813}\sqrt{4326e^3} \otimes e_4 + \frac{82}{6813}\sqrt{1095e^1} \otimes e_2$	{2357, 245}
9421:41	$0, 0, 0, 0, 0, \frac{2}{567}\sqrt{6307e^{12}}, \frac{4}{189}\sqrt{119e^{13}}, \frac{2}{567}\sqrt{12019e^{16}},$ $\frac{2}{567}\sqrt{21777e^{18}} + \frac{2}{81}\sqrt{85e^{37}}$	$(\frac{8}{63}, -\frac{166}{567}, -\frac{11}{567}, \frac{32}{63}, \frac{20}{189}, -\frac{94}{567}, \frac{61}{567}, -\frac{22}{567}, \frac{50}{567})$ $+ \frac{2}{189}\sqrt{3689e^1} \otimes e_2 + \frac{4}{567}\sqrt{6783e^4} \otimes e_9$	{23457, 2347, 24, 245}
9421:41	$0, 0, 0, 0, 0, \frac{4}{4069}\sqrt{257174e^{12}}, \frac{2}{4069}\sqrt{28479e^{13}}, \frac{2}{4069}\sqrt{741317e^{16}},$ $\frac{4}{4069}\sqrt{99245e^{18}} + \frac{2}{4069}\sqrt{4315e^{37}}$	$(\frac{66}{4069}, \frac{742}{4069}, \frac{437}{4069}, -\frac{1660}{4069}, -\frac{984}{4069}, \frac{808}{4069}, \frac{503}{4069}, \frac{874}{4069}, \frac{940}{4069})$ $+ \frac{2}{4069}\sqrt{1259117e^2} \otimes e_5 + \frac{2}{4069}\sqrt{1842505e^1} \otimes e_4$	{13569, 15679, 3457, 45}
9421:41	$0, 0, 0, 0, 0, \frac{6}{353}\sqrt{1921e^{12}}, \frac{102}{353}\sqrt{3e^{13}}, \frac{6}{353}\sqrt{646e^{16}},$ $\frac{6}{353}\sqrt{1105e^{18}} + \frac{6}{353}\sqrt{102e^{37}}$	$(-\frac{102}{353}, \frac{240}{353}, \frac{18}{353}, \frac{63}{353}, \frac{63}{353}, \frac{138}{353}, -\frac{84}{353}, \frac{36}{353}, -\frac{66}{353})$ $+ \frac{6}{353}\sqrt{4930e^2} \otimes e_9$	{1234578, 123478, 12378, 12458, 1248, 128}
9421:41	$0, 0, 0, 0, 0, \frac{2}{351}\sqrt{1099e^{12}}, \frac{2}{351}\sqrt{6594e^{13}}, \frac{4}{351}\sqrt{314e^{16}},$ $\frac{2}{351}\sqrt{471e^{18}} + \frac{1}{351}\sqrt{37366e^{37}}$	$(-\frac{4}{117}, \frac{50}{351}, \frac{1}{27}, \frac{19}{39}, -\frac{16}{39}, \frac{38}{351}, \frac{1}{351}, \frac{2}{27}, \frac{14}{351})$ $+ \frac{1}{117}\sqrt{4710e^4} \otimes e_9 + \frac{2}{117}\sqrt{1570e^3} \otimes e_5$	{123689, 1256789, 23478, 2458}
9421:41	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6e^{13}}, \frac{2}{13}\sqrt{10e^{16}},$ $\frac{4}{13}\sqrt{3e^{18}} + \frac{2}{13}\sqrt{2e^{37}}$	$(\frac{3}{13}, -\frac{5}{13}, \frac{1}{26}, \frac{11}{26}, -\frac{5}{26}, -\frac{2}{13}, \frac{7}{26}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{30e^1} \otimes e_2 + \frac{8}{13}e^4 \otimes e_5$	{1348, 1358, 1478, 1578}
9421:41	$0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{2}{9}\sqrt{6e^{13}}, \frac{2}{9}\sqrt{10e^{16}}, \frac{4}{9}\sqrt{3e^{18}} + \frac{2}{9}\sqrt{2e^{37}}$	$(\frac{1}{3}, -\frac{5}{9}, \frac{1}{18}, \frac{1}{6}, \frac{1}{6}, -\frac{2}{9}, \frac{7}{18}, \frac{1}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30e^1} \otimes e_2$	{13458, 1348, 138, 14578, 1478, 178}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:41	$0, 0, 0, 0, 0, \frac{4}{1433}\sqrt{46371e^{12}}, \frac{1}{1433}\sqrt{242034e^{13}}, \frac{26}{1433}\sqrt{1479e^{16}},$ $\frac{6}{1433}\sqrt{21489e^{18}} + \frac{2}{1433}\sqrt{15834e^{37}}$	$(\frac{214}{1433}, -\frac{70}{1433}, \frac{179}{1433}, -\frac{917}{1433}, \frac{258}{1433}, \frac{144}{1433}, \frac{393}{1433}, \frac{358}{1433}, \frac{572}{1433})$ $+ \frac{5}{1433}\sqrt{106314e^1} \otimes e_4$	{12358, 1238, 12578, 1278, 23456789, 2346789, 245689, 24689}
9421:41	$0, 0, 0, 0, 0, \frac{4}{1391}\sqrt{9979e^{12}}, \frac{3}{1391}\sqrt{48134e^{13}}, \frac{1}{1391}\sqrt{163186e^{16}},$ $\frac{3}{1391}\sqrt{1174e^{18}} + \frac{2}{1391}\sqrt{74549e^{37}}$	$(\frac{133}{1391}, \frac{30}{1391}, \frac{148}{1391}, -\frac{454}{1391}, -\frac{439}{1391}, \frac{163}{1391}, \frac{281}{1391}, \frac{296}{1391}, \frac{33}{107})$ $+ \frac{11}{1391}\sqrt{5870e^3} \otimes e_5 + \frac{2}{1391}\sqrt{181970e^1} \otimes e_4$	{1369, 15679, 347, 45}
9421:42	$0, 0, 0, 0, 0, \frac{1}{339}\sqrt{47154e^{12}}, \frac{1}{113}\sqrt{542e^{13}}, \frac{1}{339}\sqrt{61246e^{26}},$ $\frac{1}{339}\sqrt{47154e^{28}} + \frac{1}{113}\sqrt{542e^{37}}$	$(-\frac{6}{113}, \frac{52}{339}, \frac{26}{113}, -\frac{73}{113}, \frac{20}{113}, \frac{34}{339}, \frac{20}{113}, \frac{86}{339}, \frac{46}{113})$ $+ \frac{1}{113}\sqrt{16802e^2} \otimes e_4$	{13456789, 1346789, 145689, 14689, 34, 345, 457, 47}
9421:42	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{553e^{12}}, \frac{2}{167}\sqrt{4582e^{13}}, \frac{2}{167}\sqrt{790e^{26}},$ $\frac{2}{167}\sqrt{553e^{28}} + \frac{2}{167}\sqrt{4582e^{37}}$	$(-\frac{21}{167}, \frac{34}{167}, \frac{51}{167}, -\frac{107}{167}, \frac{30}{167}, \frac{13}{167}, \frac{30}{167}, \frac{47}{167}, \frac{81}{167})$ $+ \frac{2}{167}\sqrt{10823e^3} \otimes e_4$	{1359, 139, 14579, 1479, 35678, 3678, 4568, 468}
9421:42	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{114e^{12}}, \frac{1}{133}\sqrt{3306e^{13}}, \frac{1}{133}\sqrt{570e^{26}},$ $\frac{1}{133}\sqrt{1482e^{28}} + \frac{4}{133}\sqrt{285e^{37}}$	$(-\frac{5}{133}, \frac{6}{133}, \frac{9}{133}, \frac{10}{19}, -\frac{48}{133}, \frac{1}{133}, \frac{4}{133}, \frac{1}{19}, \frac{13}{133})$ $+ \frac{1}{133}\sqrt{6270e^4} \otimes e_9 + \frac{3}{133}\sqrt{798e^3} \otimes e_5$	{12369, 125679, 23478, 2458}
9421:42	$0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{418326e^{12}}, \frac{1}{1673}\sqrt{1506714e^{13}}, \frac{2}{1673}\sqrt{98103e^{26}},$ $\frac{6}{1673}\sqrt{9255e^{28}} + \frac{4}{1673}\sqrt{31467e^{37}}$	$(\frac{814}{1673}, -\frac{150}{1673}, -\frac{225}{1673}, -\frac{1037}{1673}, \frac{318}{1673}, \frac{664}{1673}, \frac{589}{1673}, \frac{514}{1673}, \frac{52}{239})$ $+ \frac{1}{1673}\sqrt{5016210e^1} \otimes e_4$	{123589, 12389, 125789, 12789, 234567, 23467, 2456, 246}
9421:42	$0, 0, 0, 0, 0, \frac{16}{623}\sqrt{191e^{12}}, \frac{8}{623}\sqrt{1146e^{13}}, \frac{6}{623}\sqrt{573e^{26}},$ $\frac{16}{623}\sqrt{191e^{28}} + \frac{8}{623}\sqrt{1146e^{37}}$	$(\frac{192}{623}, -\frac{74}{623}, -\frac{111}{623}, \frac{352}{623}, -\frac{190}{623}, \frac{118}{623}, \frac{81}{623}, \frac{44}{623}, -\frac{30}{623})$ $+ \frac{2}{623}\sqrt{51761e^1} \otimes e_5 + \frac{2}{623}\sqrt{51761e^4} \otimes e_9$	{13689, 16789, 3457, 45}
9421:42	$0, 0, 0, 0, 0, \frac{4}{4619}\sqrt{294117e^{12}}, \frac{4}{4619}\sqrt{83661e^{13}}, \frac{4}{4619}\sqrt{227046e^{26}},$ $\frac{12}{4619}\sqrt{14299e^{28}} + \frac{8}{4619}\sqrt{237e^{37}}$	$(\frac{706}{4619}, \frac{132}{4619}, \frac{198}{4619}, -\frac{1190}{4619}, -\frac{1764}{4619}, \frac{838}{4619}, \frac{904}{4619}, \frac{970}{4619}, \frac{1102}{4619})$ $+ \frac{12}{4619}\sqrt{61067e^2} \otimes e_5 + \frac{4}{4619}\sqrt{413565e^1} \otimes e_4$	{135689, 156789, 3457, 45}
9421:42	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{1482e^{12}}, \frac{4}{133}\sqrt{285e^{13}}, \frac{1}{133}\sqrt{570e^{26}},$ $\frac{1}{133}\sqrt{114e^{28}} + \frac{1}{133}\sqrt{3306e^{37}}$	$(\frac{17}{133}, \frac{6}{133}, \frac{9}{133}, -\frac{40}{133}, -\frac{48}{133}, \frac{23}{133}, \frac{26}{133}, \frac{29}{133}, \frac{5}{19})$ $+ \frac{1}{133}\sqrt{6270e^1} \otimes e_4 + \frac{3}{133}\sqrt{798e^3} \otimes e_5$	{12389, 125789, 23467, 2456}
9421:42	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{105e^{12}}, \frac{4}{59}\sqrt{30e^{13}}, \frac{12}{59}\sqrt{5e^{26}},$ $\frac{2}{59}\sqrt{105e^{28}} + \frac{4}{59}\sqrt{30e^{37}}$	$(-\frac{7}{59}, \frac{10}{59}, \frac{15}{59}, -\frac{20}{59}, -\frac{15}{59}, \frac{3}{59}, \frac{8}{59}, \frac{13}{59}, \frac{23}{59})$ $+ \frac{2}{59}\sqrt{345e^3} \otimes e_5 + \frac{4}{59}\sqrt{105e^2} \otimes e_4$	{134689, 1456789, 347, 45}
9421:42	$0, 0, 0, 0, 0, \frac{32}{161}\sqrt{3e^{12}}, \frac{48}{161}\sqrt{2e^{13}}, \frac{16}{161}\sqrt{22e^{26}},$ $\frac{32}{161}\sqrt{3e^{28}} + \frac{48}{161}\sqrt{2e^{37}}$	$(\frac{18}{161}, \frac{10}{161}, \frac{15}{161}, 1, -\frac{95}{161}, \frac{4}{161}, \frac{33}{161}, \frac{38}{161}, \frac{48}{161})$ $+ \frac{256}{161}e^4 \otimes e_5$	{134689, 135689, 146789, 156789, 347, 357, 4, 5}
9421:42	$0, 0, 0, 0, 0, \frac{12}{4619}\sqrt{14299e^{12}}, \frac{8}{4619}\sqrt{237e^{13}}, \frac{4}{4619}\sqrt{227046e^{26}},$ $\frac{2}{4619}\sqrt{294117e^{28}} + \frac{8}{4619}\sqrt{83661e^{37}}$	$(\frac{8}{4619}, \frac{132}{4619}, \frac{198}{4619}, \frac{2300}{4619}, -\frac{1764}{4619}, \frac{140}{4619}, \frac{206}{4619}, \frac{272}{4619}, \frac{404}{4619})$ $+ \frac{12}{4619}\sqrt{61067e^2} \otimes e_5 + \frac{4}{4619}\sqrt{413565e^4} \otimes e_9$	{135689, 156789, 3457, 45}
9421:42	$0, 0, 0, 0, 0, \frac{6}{1673}\sqrt{9255e^{12}}, \frac{4}{1673}\sqrt{31467e^{13}}, \frac{2}{1673}\sqrt{98103e^{26}},$ $\frac{2}{1673}\sqrt{418326e^{28}} + \frac{1}{1673}\sqrt{1506714e^{37}}$	$(\frac{272}{1673}, -\frac{150}{1673}, -\frac{225}{1673}, 1, \frac{318}{1673}, \frac{122}{1673}, \frac{47}{1673}, -\frac{4}{239}, -\frac{178}{1673})$ $+ \frac{1}{1673}\sqrt{5016210e^4} \otimes e_9$	{123569, 12369, 125679, 12679, 234578, 23478, 2458, 248}
9421:43	$0, 0, 0, 0, 0, \frac{4}{2317}\sqrt{15223e^{12}}, \frac{2}{2317}\sqrt{333735e^{13}}, \frac{2}{2317}\sqrt{127639e^{16}},$ $\frac{2}{331}\sqrt{12881e^{18}} + \frac{8}{2317}\sqrt{26933e^{26}} + \frac{2}{2317}\sqrt{661615e^{34}}$	$(-\frac{5}{2317}, -\frac{10}{2317}, \frac{130}{2317}, -\frac{155}{2317}, 1, -\frac{15}{2317}, \frac{125}{2317}, -\frac{20}{2317}, -\frac{25}{2317})$ $+ \frac{2}{2317}\sqrt{2233097e^5} \otimes e_9$	{13679, 1469, 345, 57}
9421:43	$0, 0, 0, 0, 0, \frac{114}{5021}\sqrt{115e^{12}}, \frac{57}{5021}\sqrt{1730e^{13}}, \frac{57}{5021}\sqrt{806e^{16}},$ $\frac{57}{5021}\sqrt{770e^{18}} + \frac{228}{5021}\sqrt{113e^{26}} + \frac{342}{5021}\sqrt{15e^{34}}$	$(-\frac{57}{5021}, -\frac{114}{5021}, \frac{1482}{5021}, -\frac{1767}{5021}, \frac{2964}{5021}, -\frac{171}{5021}, \frac{1425}{5021}, -\frac{228}{5021}, -\frac{285}{5021})$ $+ \frac{114}{5021}\sqrt{1202e^5} \otimes e_9 + \frac{627}{5021}\sqrt{34e^3} \otimes e_4$	{23789, 2489}
9421:43	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{869e^{12}}, \frac{3}{133}\sqrt{2370e^{13}}, \frac{1}{133}\sqrt{158e^{16}},$ $\frac{1}{133}\sqrt{4503e^{18}} + \frac{1}{133}\sqrt{8295e^{26}} + \frac{79}{133}e^{34}$	$(\frac{5}{266}, \frac{5}{133}, \frac{341}{532}, -\frac{291}{532}, \frac{81}{532}, \frac{15}{266}, \frac{351}{532}, \frac{10}{133}, \frac{25}{266})$ $+ \frac{1}{133}\sqrt{35629e^3} \otimes e_4$	{13, 135, 1457, 147}
9421:43	$0, 0, 0, 0, 0, \frac{25}{1002}\sqrt{130e^{12}}, \frac{125}{1002}\sqrt{14e^{13}}, \frac{25}{1002}\sqrt{410e^{16}},$ $\frac{25}{1002}\sqrt{181e^{18}} + \frac{25}{1002}\sqrt{29e^{26}} + \frac{25}{501}\sqrt{67e^{34}}$	$(\frac{25}{668}, \frac{25}{334}, -\frac{325}{4008}, \frac{1075}{4008}, -\frac{525}{1336}, \frac{75}{668}, -\frac{175}{4008}, \frac{25}{167}, \frac{125}{668})$ $+ \frac{25}{2004}\sqrt{1861e^3} \otimes e_5 - \frac{25}{2004}\sqrt{1861e^4} \otimes e_7$	{134, 157, 3679, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:43	$0, 0, 0, 0, 0, \frac{25}{1002}\sqrt{130}e^{12}, \frac{125}{1002}\sqrt{14}e^{13}, \frac{25}{2004}\sqrt{410}e^{16},$ $\frac{25}{1002}\sqrt{181}e^{18} + \frac{25}{1002}\sqrt{29}e^{26} + \frac{25}{501}\sqrt{67}e^{34}$	$(\frac{25}{668}, \frac{25}{334}, -\frac{325}{4008}, \frac{1075}{4008}, -\frac{525}{1336}, \frac{75}{668}, -\frac{175}{4008}, \frac{25}{167}, \frac{125}{668})$ $+ \frac{25}{2004}\sqrt{1861}e^3 \otimes e_5 + \frac{25}{2004}\sqrt{1861}e^4 \otimes e_7$	{134, 157, 3679, 4569}
9421:43	$0, 0, 0, 0, 0, \frac{39}{625}\sqrt{37}e^{12}, \frac{13}{625}\sqrt{753}e^{13}, \frac{78}{625}\sqrt{14}e^{16},$ $\frac{13}{625}\sqrt{503}e^{18} + \frac{156}{625}\sqrt{6}e^{26} + \frac{52}{625}\sqrt{21}e^{34}$	$(\frac{13}{625}, \frac{26}{625}, -\frac{156}{625}, \frac{221}{625}, \frac{52}{625}, \frac{39}{625}, -\frac{143}{625}, \frac{52}{125}, \frac{13}{125})$ $+ \frac{13}{625}e^4 \otimes e_5 + \frac{26}{625}\sqrt{286}e^2 \otimes e_7$	{156789, 3578}
9421:43	$0, 0, 0, 0, 0, \frac{16}{2071}\sqrt{2415}e^{12}, \frac{4}{2071}\sqrt{87430}e^{13}, \frac{8}{2071}\sqrt{14630}e^{16},$ $\frac{8}{2071}\sqrt{14595}e^{18} + \frac{4}{2071}\sqrt{100310}e^{26} + \frac{24}{2071}\sqrt{1085}e^{34}$	$(\frac{43}{2071}, \frac{86}{2071}, -\frac{517}{2071}, \frac{732}{2071}, \frac{174}{2071}, \frac{129}{2071}, -\frac{474}{2071}, \frac{172}{2071}, \frac{215}{2071})$ $+ \frac{28}{2071}\sqrt{2710}e^2 \otimes e_7$	{156789, 16789, 3578, 378}
9421:43	$0, 0, 0, 0, 0, \frac{23}{4751}\sqrt{1722}e^{12}, \frac{23}{4751}\sqrt{5170}e^{13}, \frac{23}{4751}\sqrt{3170}e^{16},$ $\frac{46}{4751}\sqrt{834}e^{18} + \frac{23}{4751}\sqrt{4910}e^{26} + \frac{138}{4751}\sqrt{34}e^{34}$	$(\frac{92}{4751}, \frac{184}{4751}, -\frac{437}{4751}, \frac{897}{4751}, -\frac{966}{4751}, \frac{276}{4751}, -\frac{345}{4751}, \frac{368}{4751}, \frac{460}{4751})$ $+ \frac{23}{4751}\sqrt{6430}e^2 \otimes e_7 + \frac{69}{4751}\sqrt{278}e^3 \otimes e_5$	{156789, 378}
9421:43	$0, 0, 0, 0, 0, \frac{56}{3019}\sqrt{29}e^{12}, \frac{56}{3019}\sqrt{285}e^{13}, \frac{56}{3019}\sqrt{86}e^{16},$ $\frac{448}{3019}\sqrt{2}e^{18} + \frac{56}{3019}\sqrt{299}e^{26} + \frac{56}{3019}\sqrt{769}e^{34}$	$(\frac{28}{3019}, \frac{56}{3019}, -\frac{728}{3019}, \frac{868}{3019}, \frac{1708}{3019}, \frac{84}{3019}, -\frac{700}{3019}, \frac{112}{3019}, \frac{140}{3019})$ $- \frac{56}{3019}\sqrt{1311}e^4 \otimes e_7 + \frac{56}{3019}\sqrt{1382}e^5 \otimes e_9$	{1234568, 125678, 23789, 2489}
9421:43	$0, 0, 0, 0, 0, \frac{56}{3019}\sqrt{29}e^{12}, \frac{56}{3019}\sqrt{285}e^{13}, \frac{56}{3019}\sqrt{86}e^{16},$ $\frac{448}{3019}\sqrt{2}e^{18} + \frac{56}{3019}\sqrt{299}e^{26} + \frac{56}{3019}\sqrt{769}e^{34}$	$(\frac{28}{3019}, \frac{56}{3019}, -\frac{728}{3019}, \frac{868}{3019}, \frac{1708}{3019}, \frac{84}{3019}, -\frac{700}{3019}, \frac{112}{3019}, \frac{140}{3019})$ $+ \frac{56}{3019}\sqrt{1311}e^4 \otimes e_7 + \frac{56}{3019}\sqrt{1382}e^5 \otimes e_9$	{1234568, 125678, 23789, 2489}
9421:43	$0, 0, 0, 0, 0, \frac{6}{653}\sqrt{5}e^{12}, \frac{1}{653}\sqrt{802}e^{13}, \frac{1}{653}\sqrt{494}e^{16},$ $\frac{1}{653}\sqrt{438}e^{18} + \frac{2}{653}\sqrt{182}e^{26} + \frac{2}{653}\sqrt{87}e^{34}$	$(-\frac{1}{653}, -\frac{2}{653}, -\frac{2}{653}, -\frac{3}{653}, \frac{24}{653}, -\frac{3}{653}, -\frac{3}{653}, -\frac{4}{653}, -\frac{5}{653})$ $+ \frac{1}{653}\sqrt{402}e^3 \otimes e_4 + \frac{2}{653}\sqrt{214}e^2 \otimes e_7$	{3578, 378}
9421:43	$0, 0, 0, 0, 0, \frac{2}{783}\sqrt{49305}e^{12}, \frac{2}{783}\sqrt{6555}e^{13}, \frac{2}{783}\sqrt{85215}e^{16},$ $\frac{2}{783}\sqrt{68685}e^{18} + \frac{2}{783}\sqrt{39045}e^{26} + \frac{2}{783}\sqrt{285}e^{34}$	$(\frac{47}{783}, \frac{94}{783}, \frac{106}{783}, \frac{43}{261}, -\frac{523}{783}, \frac{47}{783}, \frac{17}{87}, \frac{188}{783}, \frac{235}{783})$ $+ \frac{2}{783}\sqrt{186105}e^1 \otimes e_5$	{12348, 1278, 2356789, 245689}
9421:43	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{869}e^{12}, \frac{3}{133}\sqrt{2370}e^{13}, \frac{1}{133}\sqrt{158}e^{16},$ $\frac{1}{133}\sqrt{4503}e^{18} + \frac{1}{133}\sqrt{8295}e^{26} + \frac{19}{133}e^{34}$	$(\frac{5}{266}, \frac{5}{133}, -\frac{55}{266}, \frac{40}{133}, \frac{1}{19}, \frac{15}{266}, -\frac{25}{133}, \frac{10}{133}, \frac{25}{266})$ $+ \frac{1}{133}\sqrt{35629}e^5 \otimes e_7$	{135, 147, 34679, 569}
9421:43	$0, 0, 0, 0, 0, \frac{54}{3341}\sqrt{355}e^{12}, \frac{243}{3341}\sqrt{38}e^{13}, \frac{54}{3341}\sqrt{542}e^{16},$ $\frac{27}{3341}\sqrt{1858}e^{18} + \frac{108}{3341}\sqrt{247}e^{26} + \frac{54}{3341}\sqrt{287}e^{34}$	$(\frac{27}{3341}, \frac{54}{3341}, -\frac{54}{257}, \frac{837}{3341}, \frac{864}{3341}, \frac{81}{3341}, -\frac{675}{3341}, \frac{108}{3341}, \frac{135}{3341})$ $+ \frac{27}{3341}\sqrt{1202}e^5 \otimes e_9 + \frac{27}{3341}\sqrt{4954}e^2 \otimes e_7$	{16789, 3578}
9421:43	$0, 0, 0, 0, 0, \frac{23}{2809}\sqrt{1418}e^{12}, \frac{23}{2809}\sqrt{2530}e^{13}, \frac{46}{2809}\sqrt{269}e^{16},$ $\frac{23}{2809}\sqrt{1166}e^{18} + \frac{23}{2809}\sqrt{2542}e^{26} + \frac{46}{2809}\sqrt{287}e^{34}$	$(\frac{69}{2809}, \frac{138}{2809}, -\frac{460}{2809}, \frac{805}{2809}, -\frac{460}{2809}, \frac{207}{2809}, -\frac{391}{2809}, \frac{276}{2809}, \frac{345}{2809})$ $+ \frac{23}{2809}\sqrt{1382}e^1 \otimes e_5 + \frac{23}{2809}\sqrt{3774}e^2 \otimes e_7$	{16789, 3578}
9421:43	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{3190}e^{12}, \frac{1}{139}\sqrt{1798}e^{13}, \frac{2}{139}\sqrt{1015}e^{16},$ $\frac{3}{139}\sqrt{870}e^{18} + \frac{2}{139}\sqrt{3799}e^{26} + \frac{5}{139}\sqrt{58}e^{34}$	$(\frac{37}{556}, \frac{37}{278}, \frac{77}{556}, \frac{27}{139}, -\frac{195}{278}, \frac{111}{556}, \frac{57}{278}, \frac{37}{139}, \frac{185}{556})$ $+ \frac{1}{139}\sqrt{27434}e^2 \otimes e_5$	{1345689, 156789, 3578, 458}
9421:43	$0, 0, 0, 0, 0, \frac{34}{581}\sqrt{55}e^{12}, \frac{17}{581}\sqrt{302}e^{13}, \frac{17}{581}\sqrt{210}e^{16},$ $\frac{68}{581}\sqrt{15}e^{18} + \frac{17}{581}\sqrt{434}e^{26} + \frac{17}{581}\sqrt{130}e^{34}$	$(\frac{17}{581}, \frac{34}{581}, \frac{187}{581}, -\frac{102}{581}, -\frac{255}{581}, \frac{51}{581}, \frac{204}{581}, \frac{68}{581}, \frac{85}{581})$ $+ \frac{34}{581}\sqrt{110}e^3 \otimes e_4 + \frac{34}{581}\sqrt{154}e^2 \otimes e_5$	{3578, 458}
9421:43	$0, 0, 0, 0, 0, \frac{98}{5149}\sqrt{239}e^{12}, \frac{49}{5149}\sqrt{2314}e^{13}, \frac{49}{5149}\sqrt{1618}e^{16},$ $\frac{49}{5149}\sqrt{1558}e^{18} + \frac{98}{5149}\sqrt{107}e^{26} + \frac{98}{5149}\sqrt{194}e^{34}$	$(\frac{147}{5149}, \frac{294}{5149}, \frac{1568}{5149}, -\frac{833}{5149}, -\frac{2254}{5149}, \frac{441}{5149}, \frac{1715}{5149}, \frac{588}{5149}, \frac{735}{5149})$ $+ \frac{49}{5149}\sqrt{3558}e^3 \otimes e_4 + \frac{98}{5149}\sqrt{1406}e^1 \otimes e_5$	{1238, 12478}
9421:43	$0, 0, 0, 0, 0, \frac{4}{2231}\sqrt{303}e^{12}, \frac{12}{2231}\sqrt{23735}e^{13}, \frac{8}{2231}\sqrt{10605}e^{16},$ $\frac{52}{2231}\sqrt{606}e^{18} + \frac{4}{2231}\sqrt{25755}e^{26} + \frac{4}{2231}\sqrt{179679}e^{34}$	$(\frac{142}{2231}, \frac{284}{2231}, \frac{933}{2231}, -\frac{223}{2231}, \frac{1491}{2231}, \frac{426}{2231}, \frac{1075}{2231}, \frac{568}{2231}, \frac{710}{2231})$ $+ \frac{4}{2231}\sqrt{563883}e^3 \otimes e_5$	{13689, 1456789, 3478, 58}
9421:43	$0, 0, 0, 0, 0, \frac{594}{1901}e^{12}, \frac{135}{1901}\sqrt{86}e^{13}, \frac{27}{1901}\sqrt{914}e^{16},$ $\frac{162}{1901}\sqrt{14}e^{18} + \frac{27}{1901}\sqrt{786}e^{26} + \frac{27}{1901}\sqrt{746}e^{34}$	$(-\frac{27}{1901}, -\frac{54}{1901}, \frac{297}{1901}, -\frac{432}{1901}, \frac{999}{1901}, -\frac{81}{1901}, \frac{270}{1901}, -\frac{108}{1901}, -\frac{135}{1901})$ $+ \frac{54}{1901}\sqrt{451}e^3 \otimes e_4 + \frac{54}{1901}\sqrt{451}e^5 \otimes e_7$	{135, 147}
9421:43	$0, 0, 0, 0, 0, \frac{16}{837}\sqrt{309}e^{12}, \frac{16}{837}\sqrt{381}e^{13}, \frac{16}{837}\sqrt{498}e^{16},$ $\frac{32}{837}\sqrt{78}e^{18} + \frac{16}{837}\sqrt{255}e^{26} + \frac{16}{837}\sqrt{249}e^{34}$	$(\frac{40}{837}, \frac{80}{837}, -\frac{112}{837}, \frac{104}{837}, -\frac{344}{837}, \frac{40}{837}, -\frac{8}{93}, \frac{160}{837}, \frac{200}{837})$ $+ \frac{16}{837}\sqrt{1326}e^1 \otimes e_5 - \frac{16}{93}\sqrt{11}e^4 \otimes e_7$	{12348, 1278, 2356789, 245689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:43	$0, 0, 0, 0, 0, \frac{16}{837}\sqrt{309}e^{12}, \frac{16}{837}\sqrt{381}e^{13}, \frac{16}{837}\sqrt{498}e^{16},$ $\frac{32}{837}\sqrt{78}e^{18} + \frac{16}{837}\sqrt{255}e^{26} + \frac{16}{837}\sqrt{249}e^{34}$	$(\frac{40}{837}, \frac{80}{837}, -\frac{112}{837}, \frac{104}{279}, -\frac{344}{837}, \frac{40}{279}, -\frac{8}{93}, \frac{160}{837}, \frac{200}{837})$ $+ \frac{16}{837}\sqrt{1326}e^1 \otimes e_5 + \frac{16}{93}\sqrt{11}e^4 \otimes e_7$	{12348, 1278, 2356789, 245689}
9421:43	$0, 0, 0, 0, 0, \frac{26}{47}e^{12}, \frac{65}{141}\sqrt{2}e^{13}, \frac{13}{141}\sqrt{46}e^{16},$ $\frac{26}{141}\sqrt{2}e^{18} + \frac{13}{141}\sqrt{38}e^{26} + \frac{13}{47}\sqrt{14}e^{34}$	$(\frac{13}{141}, \frac{26}{141}, -\frac{13}{141}, \frac{26}{47}, -\frac{91}{141}, \frac{13}{47}, 0, \frac{52}{141}, \frac{65}{141})$ $+ \frac{26}{141}\sqrt{58}e^4 \otimes e_5$	{13467, 156, 359, 479}
9421:44	$0, 0, 0, 0, 0, \frac{7}{297}\sqrt{1090}e^{12}, \frac{7}{99}\sqrt{30}e^{13}, \frac{14}{297}\sqrt{65}e^{26},$ $\frac{7}{297}\sqrt{1230}e^{16} + \frac{7}{297}\sqrt{570}e^{28} + \frac{28}{297}\sqrt{10}e^{34}$	$(\frac{38}{297}, \frac{19}{297}, \frac{34}{297}, \frac{61}{297}, -\frac{23}{33}, \frac{19}{99}, \frac{8}{33}, \frac{76}{297}, \frac{95}{297})$ $+ \frac{14}{99}\sqrt{70}e^1 \otimes e_5$	{23456789, 25689, 3578, 458}
9421:44	$0, 0, 0, 0, 0, \frac{57}{6277}\sqrt{382}e^{12}, \frac{114}{6277}\sqrt{310}e^{13}, \frac{57}{6277}\sqrt{362}e^{26},$ $\frac{57}{6277}\sqrt{310}e^{16} + \frac{57}{6277}\sqrt{1302}e^{28} + \frac{399}{6277}\sqrt{66}e^{34}$	$(\frac{114}{6277}, \frac{57}{6277}, -\frac{1539}{6277}, \frac{1824}{6277}, \frac{3534}{6277}, \frac{171}{6277}, -\frac{1425}{6277}, \frac{228}{6277}, \frac{285}{6277})$ $+ \frac{114}{6277}\sqrt{1418}e^5 \otimes e_9 + \frac{57}{6277}\sqrt{5486}e^4 \otimes e_7$	{36789, 4689}
9421:44	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{14582}e^{12}, \frac{1}{303}\sqrt{64985}e^{13}, \frac{1}{303}\sqrt{24409}e^{26},$ $\frac{1}{101}\sqrt{4438}e^{16} + \frac{1}{303}\sqrt{12046}e^{28} + \frac{1}{303}\sqrt{51671}e^{34}$	$(\frac{12}{101}, \frac{6}{101}, \frac{119}{303}, -\frac{29}{303}, -\frac{66}{101}, \frac{18}{101}, \frac{155}{303}, \frac{24}{101}, \frac{30}{101})$ $+ \frac{1}{303}\sqrt{158817}e^3 \otimes e_5$	{12369, 1245679, 134, 157}
9421:44	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{1958}e^{12}, \frac{2}{407}\sqrt{9790}e^{13}, \frac{8}{407}\sqrt{534}e^{26},$ $\frac{13}{407}\sqrt{178}e^{16} + \frac{2}{407}\sqrt{9790}e^{28} + \frac{1}{407}\sqrt{12994}e^{34}$	$(\frac{12}{407}, \frac{6}{407}, -\frac{95}{407}, \frac{125}{407}, \frac{52}{407}, \frac{18}{407}, -\frac{83}{407}, \frac{24}{407}, \frac{30}{407})$ $+ \frac{1}{407}\sqrt{63190}e^2 \otimes e_7$	{1234569, 123469, 1457, 147}
9421:44	$0, 0, 0, 0, 0, \frac{45}{1117}\sqrt{6}e^{12}, \frac{18}{1117}\sqrt{870}e^{13}, \frac{288}{1117}\sqrt{3}e^{26},$ $\frac{9}{1117}\sqrt{2706}e^{16} + \frac{18}{1117}\sqrt{870}e^{28} + \frac{9}{1117}\sqrt{1074}e^{34}$	$(\frac{36}{1117}, \frac{18}{1117}, -\frac{261}{1117}, \frac{351}{1117}, \frac{108}{1117}, \frac{54}{1117}, -\frac{225}{1117}, \frac{72}{1117}, \frac{90}{1117})$ $+ \frac{72}{1117}\sqrt{3}e^4 \otimes e_5 + \frac{81}{1117}\sqrt{70}e^2 \otimes e_7$	{123469, 147}
9421:44	$0, 0, 0, 0, 0, \frac{49}{5413}\sqrt{858}e^{12}, \frac{98}{5413}\sqrt{473}e^{13}, \frac{49}{5413}\sqrt{3118}e^{26},$ $\frac{49}{5413}\sqrt{2418}e^{16} + \frac{49}{5413}\sqrt{2470}e^{28} + \frac{49}{5413}\sqrt{1086}e^{34}$	$(\frac{490}{5413}, \frac{245}{5413}, -\frac{833}{5413}, \frac{2058}{5413}, -\frac{2156}{5413}, \frac{735}{5413}, -\frac{343}{5413}, \frac{980}{5413}, \frac{1225}{5413})$ $+ \frac{49}{5413}\sqrt{3890}e^4 \otimes e_7 + \frac{98}{5413}\sqrt{1406}e^2 \otimes e_5$	{12348, 1278}
9421:44	$0, 0, 0, 0, 0, \frac{53}{5821}\sqrt{1538}e^{12}, \frac{53}{5821}\sqrt{3086}e^{13}, \frac{106}{5821}\sqrt{73}e^{26},$ $\frac{53}{5821}\sqrt{2030}e^{16} + \frac{53}{5821}\sqrt{410}e^{28} + \frac{212}{5821}\sqrt{74}e^{34}$	$(\frac{318}{5821}, \frac{159}{5821}, \frac{1802}{5821}, \frac{1007}{5821}, \frac{2491}{5821}, \frac{477}{5821}, \frac{2120}{5821}, \frac{636}{5821}, \frac{795}{5821})$ $+ \frac{106}{5821}\sqrt{1534}e^1 \otimes e_5 + \frac{848}{5821}\sqrt{17}e^3 \otimes e_4$	{3578, 458}
9421:44	$0, 0, 0, 0, 0, \frac{145}{2109}\sqrt{38}e^{12}, \frac{29}{2109}\sqrt{2230}e^{13}, \frac{58}{2109}\sqrt{97}e^{26},$ $\frac{29}{2109}\sqrt{858}e^{16} + \frac{29}{2109}\sqrt{926}e^{28} + \frac{58}{2109}\sqrt{166}e^{34}$	$(-\frac{58}{2109}, -\frac{29}{2109}, \frac{116}{703}, -\frac{493}{2109}, \frac{377}{703}, -\frac{29}{703}, \frac{290}{2109}, -\frac{116}{2109}, -\frac{145}{2109})$ $+ \frac{58}{2109}\sqrt{489}e^3 \otimes e_4 + \frac{58}{2109}\sqrt{489}e^5 \otimes e_7$	{135, 147}
9421:44	$0, 0, 0, 0, 0, \frac{7}{6661}\sqrt{1262}e^{12}, \frac{7}{6661}\sqrt{7318}e^{13}, \frac{14}{6661}\sqrt{1209}e^{26},$ $\frac{7}{6661}\sqrt{4894}e^{16} + \frac{7}{6661}\sqrt{6082}e^{28} + \frac{14}{6661}\sqrt{619}e^{34}$	$(-\frac{42}{6661}, -\frac{21}{6661}, -\frac{28}{6661}, -\frac{77}{6661}, \frac{539}{6661}, -\frac{63}{6661}, -\frac{70}{6661}, -\frac{84}{6661}, -\frac{105}{6661})$ $+ \frac{14}{6661}\sqrt{2134}e^2 \otimes e_7 + \frac{42}{6661}\sqrt{103}e^3 \otimes e_4$	{1457, 147}
9421:44	$0, 0, 0, 0, 0, \frac{2}{147}\sqrt{2279}e^{12}, \frac{2}{147}\sqrt{6235}e^{13}, \frac{2}{147}\sqrt{1462}e^{26},$ $\frac{1}{147}\sqrt{9030}e^{16} + \frac{1}{147}\sqrt{10922}e^{28} + \frac{1}{147}\sqrt{6106}e^{34}$	$(\frac{5}{147}, \frac{5}{294}, \frac{123}{196}, -\frac{319}{588}, \frac{33}{196}, \frac{5}{98}, \frac{389}{588}, \frac{10}{147}, \frac{25}{294})$ $+ \frac{1}{147}\sqrt{42054}e^3 \otimes e_4$	{13, 135, 1457, 147}
9421:44	$0, 0, 0, 0, 0, \frac{20}{501}\sqrt{181}e^{12}, \frac{2}{501}\sqrt{5611}e^{13}, \frac{2}{501}\sqrt{36562}e^{26},$ $\frac{2}{501}\sqrt{19005}e^{16} + \frac{2}{501}\sqrt{30770}e^{28} + \frac{4}{501}\sqrt{181}e^{34}$	$(\frac{58}{501}, \frac{29}{501}, \frac{19}{167}, \frac{88}{501}, -\frac{111}{167}, \frac{29}{167}, \frac{115}{501}, \frac{116}{501}, \frac{145}{501})$ $+ \frac{2}{501}\sqrt{75477}e^2 \otimes e_5$	{1238, 12478, 1345689, 156789}
9421:44	$0, 0, 0, 0, 0, \frac{25}{2181}\sqrt{470}e^{12}, \frac{125}{2181}\sqrt{62}e^{13}, \frac{50}{2181}\sqrt{115}e^{26},$ $\frac{25}{2181}\sqrt{114}e^{16} + \frac{25}{2181}\sqrt{214}e^{28} + \frac{50}{2181}\sqrt{302}e^{34}$	$(\frac{50}{2181}, \frac{25}{2181}, -\frac{200}{2181}, \frac{575}{2181}, -\frac{275}{727}, \frac{75}{727}, -\frac{50}{2181}, \frac{100}{2181}, \frac{125}{2181})$ $+ \frac{50}{2181}\sqrt{501}e^3 \otimes e_5 + \frac{50}{2181}\sqrt{501}e^4 \otimes e_7$	{134, 157}
9421:44	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{38}e^{12}, \frac{5}{349}\sqrt{347}e^{13}, \frac{15}{349}\sqrt{29}e^{26},$ $\frac{5}{349}\sqrt{262}e^{16} + \frac{60}{349}\sqrt{2}e^{28} + \frac{5}{349}\sqrt{43}e^{34}$	$(\frac{10}{349}, \frac{5}{349}, -\frac{30}{349}, \frac{55}{349}, -\frac{55}{349}, \frac{15}{349}, -\frac{20}{349}, \frac{20}{349}, \frac{25}{349})$ $+ \frac{5}{349}\sqrt{177}e^3 \otimes e_5 + \frac{5}{349}\sqrt{454}e^2 \otimes e_7$	{123469, 1457}
9421:44	$0, 0, 0, 0, 0, \frac{26}{1697}\sqrt{35}e^{12}, \frac{26}{1697}\sqrt{767}e^{13}, \frac{156}{1697}\sqrt{19}e^{26},$ $\frac{52}{1697}\sqrt{139}e^{16} + \frac{26}{1697}\sqrt{834}e^{28} + \frac{26}{1697}\sqrt{214}e^{34}$	$(\frac{26}{1697}, \frac{13}{1697}, -\frac{351}{1697}, \frac{416}{1697}, \frac{403}{1697}, \frac{39}{1697}, -\frac{325}{1697}, \frac{52}{1697}, \frac{65}{1697})$ $+ \frac{26}{1697}\sqrt{1294}e^2 \otimes e_7 + \frac{26}{1697}\sqrt{201}e^5 \otimes e_9$	{123469, 1457}
9421:44	$0, 0, 0, 0, 0, \frac{23}{3541}\sqrt{478}e^{12}, \frac{23}{3541}\sqrt{3082}e^{13}, \frac{644}{3541}\sqrt{3}e^{26},$ $\frac{23}{3541}\sqrt{1522}e^{16} + \frac{23}{3541}\sqrt{2566}e^{28} + \frac{92}{3541}\sqrt{70}e^{34}$	$(\frac{138}{3541}, \frac{69}{3541}, -\frac{598}{3541}, \frac{943}{3541}, -\frac{391}{3541}, \frac{207}{3541}, -\frac{460}{3541}, \frac{276}{3541}, \frac{345}{3541})$ $+ \frac{138}{3541}\sqrt{43}e^1 \otimes e_5 + \frac{92}{3541}\sqrt{298}e^2 \otimes e_7$	{1238, 16789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:44	$0, 0, 0, 0, 0, \frac{59}{5349}\sqrt{794e^{12}} + \frac{767}{5349}\sqrt{10e^{13}} + \frac{118}{5349}\sqrt{55e^{26}},$ $\frac{590}{5349}\sqrt{6e^{16}} + \frac{236}{5349}\sqrt{122e^{28}} + \frac{59}{5349}\sqrt{710e^{34}}$	$(-\frac{118}{5349}, -\frac{59}{5349}, \frac{531}{1783}, -\frac{1888}{5349}, \frac{1062}{1783}, -\frac{59}{1783}, \frac{1475}{5349}, -\frac{236}{5349}, -\frac{295}{5349})$ $+\frac{118}{1783}\sqrt{142e^5} \otimes e_9 + \frac{59}{5349}\sqrt{4326e^3} \otimes e_4$	{36789, 4689}
9421:44	$0, 0, 0, 0, 0, \frac{36}{793}\sqrt{165e^{12}} + \frac{18}{793}\sqrt{570e^{13}} + \frac{18}{793}\sqrt{318e^{26}},$ $\frac{18}{793}\sqrt{114e^{16}} + \frac{18}{793}\sqrt{570e^{28}} + \frac{36}{793}\sqrt{501e^{34}}$	$(\frac{144}{793}, \frac{72}{793}, -\frac{99}{793}, \frac{459}{793}, -\frac{513}{793}, \frac{216}{793}, \frac{45}{793}, \frac{288}{793}, \frac{360}{793})$ $+\frac{18}{793}\sqrt{3918e^4} \otimes e_5$	{2346, 2567, 359, 479}
9421:44	$0, 0, 0, 0, 0, \frac{2}{411}\sqrt{138877e^{12}} + \frac{2}{2433}\sqrt{362555e^{13}} + \frac{16}{2433}\sqrt{1229e^{26}},$ $\frac{4}{811}\sqrt{20893e^{16}} + \frac{4}{2433}\sqrt{115526e^{28}} + \frac{4}{2433}\sqrt{178205e^{34}}$	$(-\frac{10}{2433}, -\frac{5}{2433}, \frac{45}{811}, -\frac{160}{2433}, 1, -\frac{5}{811}, \frac{125}{2433}, -\frac{20}{2433}, -\frac{25}{2433})$ $+\frac{2}{2433}\sqrt{2473977e^5} \otimes e_9$	{12379, 1249, 134567, 156}
9421:44	$0, 0, 0, 0, 0, \frac{2}{147}\sqrt{2279e^{12}} + \frac{2}{147}\sqrt{6235e^{13}} + \frac{2}{147}\sqrt{1462e^{26}},$ $\frac{1}{147}\sqrt{9030e^{16}} + \frac{1}{147}\sqrt{10922e^{28}} + \frac{1}{147}\sqrt{6106e^{34}}$	$(\frac{5}{147}, \frac{5}{294}, -\frac{10}{49}, \frac{85}{294}, 1, \frac{5}{98}, -\frac{25}{147}, \frac{10}{147}, \frac{25}{294})$ $+\frac{1}{147}\sqrt{42054e^5} \otimes e_7$	{1234569, 12679, 135, 147}
9421:44	$0, 0, 0, 0, 0, \frac{51}{5293}\sqrt{1794e^{12}} + \frac{51}{5293}\sqrt{2126e^{13}} + \frac{102}{5293}\sqrt{33e^{26}},$ $\frac{255}{5293}\sqrt{62e^{16}} + \frac{51}{5293}\sqrt{1018e^{28}} + \frac{612}{5293}\sqrt{6e^{34}}$	$(\frac{510}{5293}, \frac{255}{5293}, -\frac{918}{5293}, \frac{2193}{5293}, -\frac{2091}{5293}, \frac{765}{5293}, -\frac{408}{5293}, \frac{1020}{5293}, \frac{1275}{5293})$ $+\frac{102}{5293}\sqrt{1334e^1} \otimes e_5 + \frac{3264}{5293}e^4 \otimes e_7$	{2356789, 245689}
9421:44	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{14582e^{12}} + \frac{1}{303}\sqrt{64985e^{13}} + \frac{1}{303}\sqrt{24409e^{26}},$ $\frac{1}{101}\sqrt{4438e^{16}} + \frac{1}{303}\sqrt{12046e^{28}} + \frac{1}{303}\sqrt{51671e^{34}}$	$(\frac{12}{101}, \frac{6}{101}, -\frac{263}{606}, \frac{443}{606}, \frac{35}{202}, \frac{18}{101}, -\frac{191}{606}, \frac{24}{101}, \frac{30}{101})$ $+\frac{1}{303}\sqrt{158817e^4} \otimes e_7$	{134, 1345, 157, 17}
9421:44	$0, 0, 0, 0, 0, \frac{51}{1911}\sqrt{6e^{12}} + \frac{17}{1911}\sqrt{2658e^{13}} + \frac{34}{1911}\sqrt{831e^{26}},$ $\frac{34}{1911}\sqrt{609e^{16}} + \frac{34}{637}\sqrt{95e^{28}} + \frac{17}{637}\sqrt{86e^{34}}$	$(\frac{34}{637}, \frac{17}{637}, \frac{187}{637}, -\frac{102}{637}, -\frac{272}{637}, \frac{51}{637}, \frac{17}{49}, \frac{68}{637}, \frac{85}{637})$ $+\frac{17}{1911}\sqrt{3930e^3} \otimes e_4 + \frac{34}{1911}\sqrt{1554e^2} \otimes e_5$	{1238, 12478}
9421:45	$0, 0, 0, 0, 0, \frac{5}{3511}\sqrt{366e^{12}} + \frac{15}{3511}\sqrt{394e^{13}} + \frac{20}{3511}\sqrt{181e^{24}},$ $\frac{40}{3511}\sqrt{57e^{16}} + \frac{40}{3511}\sqrt{67e^{18}} + \frac{55}{3511}\sqrt{22e^{26}}$	$(-\frac{10}{3511}, -\frac{20}{3511}, -\frac{35}{3511}, -\frac{25}{3511}, \frac{280}{3511}, -\frac{30}{3511}, -\frac{45}{3511}, -\frac{40}{3511}, -\frac{50}{3511})$ $+\frac{15}{3511}\sqrt{254e^4} \otimes e_9 + \frac{60}{3511}\sqrt{29e^1} \otimes e_3$	{12458, 1248}
9421:45	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{186e^{12}} + \frac{9}{166}\sqrt{110e^{13}} + \frac{3}{166}\sqrt{210e^{24}},$ $\frac{3}{83}\sqrt{2e^{18}} + \frac{3}{166}\sqrt{690e^{26}}$	$(-\frac{3}{83}, -\frac{6}{83}, \frac{12}{83}, \frac{15}{83}, \frac{36}{83}, -\frac{9}{83}, \frac{9}{83}, -\frac{12}{83}, -\frac{15}{83})$ $+\frac{3}{166}\sqrt{714e^5} \otimes e_7 + \frac{3}{83}\sqrt{282e^3} \otimes e_9$	{1345, 4569}
9421:45	$0, 0, 0, 0, 0, \frac{13}{853}\sqrt{690e^{12}} + \frac{13}{853}\sqrt{30e^{13}} + \frac{26}{853}\sqrt{330e^{24}},$ $\frac{52}{853}\sqrt{6e^{16}}, \frac{26}{853}\sqrt{330e^{18}} + \frac{13}{853}\sqrt{282e^{26}}$	$(-\frac{26}{853}, -\frac{52}{853}, \frac{351}{853}, \frac{377}{853}, -\frac{156}{853}, -\frac{78}{853}, \frac{325}{853}, -\frac{104}{853}, -\frac{130}{853})$ $+\frac{13}{853}\sqrt{2982e^4} \otimes e_9 + \frac{208}{853}\sqrt{6e^3} \otimes e_5$	{14578, 5689}
9421:45	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{645e^{12}} + \frac{4}{533}\sqrt{13502e^{13}} + \frac{4}{533}\sqrt{7826e^{24}},$ $\frac{4}{533}\sqrt{8041e^{16}}, \frac{20}{533}\sqrt{43e^{18}} + \frac{4}{533}\sqrt{13287e^{26}}$	$(-\frac{25}{533}, -\frac{50}{533}, \frac{219}{533}, \frac{244}{533}, \frac{62}{533}, -\frac{75}{533}, \frac{194}{533}, -\frac{100}{533}, -\frac{125}{533})$ $+\frac{4}{533}\sqrt{20253e^3} \otimes e_9$	{134, 1345, 4569, 469}
9421:45	$0, 0, 0, 0, 0, \frac{174}{3649}\sqrt{82e^{12}} + \frac{29}{3649}\sqrt{1582e^{13}} + \frac{29}{3649}\sqrt{2990e^{24}},$ $\frac{29}{3649}\sqrt{2006e^{16}}, \frac{58}{3649}\sqrt{570e^{18}} + \frac{29}{3649}\sqrt{4858e^{26}}$	$(\frac{87}{3649}, \frac{174}{3649}, -\frac{580}{3649}, -\frac{667}{3649}, \frac{1276}{3649}, \frac{261}{3649}, -\frac{493}{3649}, \frac{348}{3649}, \frac{435}{3649})$ $+\frac{29}{3649}\sqrt{2130e^5} \otimes e_9 + \frac{29}{3649}\sqrt{4746e^2} \otimes e_4$	{134689, 458}
9421:45	$0, 0, 0, 0, 0, \frac{19}{287}\sqrt{66e^{12}} + \frac{9}{287}\sqrt{418e^{13}} + \frac{2}{287}\sqrt{15466e^{24}},$ $\frac{4}{287}\sqrt{1254e^{16}}, \frac{2}{287}\sqrt{15466e^{18}} + \frac{19}{287}\sqrt{22e^{26}}$	$(-\frac{2}{41}, -\frac{4}{41}, \frac{125}{287}, \frac{139}{287}, \frac{44}{287}, -\frac{6}{41}, \frac{111}{287}, -\frac{8}{41}, -\frac{10}{41})$ $+\frac{9}{287}\sqrt{1254e^4} \otimes e_9$	{1235679, 123679, 234, 2345}
9421:45	$0, 0, 0, 0, 0, \frac{124}{3109}\sqrt{30e^{12}} + \frac{62}{3109}\sqrt{505e^{13}} + \frac{124}{3109}\sqrt{67e^{24}},$ $\frac{155}{3109}\sqrt{2e^{16}}, \frac{620}{3109}\sqrt{2e^{18}} + \frac{31}{3109}\sqrt{1318e^{26}}$	$(-\frac{31}{3109}, -\frac{62}{3109}, \frac{806}{3109}, \frac{837}{3109}, -\frac{992}{3109}, -\frac{93}{3109}, \frac{775}{3109}, -\frac{124}{3109}, -\frac{155}{3109})$ $+\frac{31}{3109}\sqrt{2586e^1} \otimes e_5 + \frac{31}{3109}\sqrt{3030e^3} \otimes e_9$	{12479, 234567}
9421:45	$0, 0, 0, 0, 0, \frac{17}{505}\sqrt{69e^{12}} + \frac{17}{505}\sqrt{359e^{13}} + \frac{34}{505}\sqrt{23e^{24}},$ $\frac{238}{505}e^{16}, \frac{17}{505}\sqrt{47e^{18}} + \frac{68}{505}\sqrt{21e^{26}}$	$(-\frac{17}{505}, -\frac{34}{505}, \frac{204}{505}, \frac{221}{505}, -\frac{68}{505}, -\frac{51}{505}, \frac{187}{505}, -\frac{68}{505}, -\frac{17}{101})$ $+\frac{153}{505}\sqrt{3e^4} \otimes e_5 + \frac{34}{505}\sqrt{165e^3} \otimes e_9$	{123568, 2589}
9421:45	$0, 0, 0, 0, 0, \frac{16}{425}\sqrt{66e^{12}} + \frac{16}{425}\sqrt{146e^{13}} + \frac{16}{425}\sqrt{77e^{24}},$ $\frac{64}{425}\sqrt{7e^{16}}, \frac{16}{425}\sqrt{61e^{18}} + \frac{48}{85}e^{26}$	$(-\frac{4}{425}, -\frac{8}{425}, \frac{108}{425}, \frac{112}{425}, -\frac{8}{25}, -\frac{12}{425}, \frac{104}{425}, -\frac{16}{425}, -\frac{4}{85})$ $+\frac{16}{425}\sqrt{219e^3} \otimes e_9 + \frac{48}{425}\sqrt{19e^2} \otimes e_5$	{156789, 3578}
9421:45	$0, 0, 0, 0, 0, \frac{46}{3157}\sqrt{249e^{12}} + \frac{46}{3157}\sqrt{761e^{13}} + \frac{46}{3157}\sqrt{415e^{24}},$ $\frac{23}{3157}\sqrt{3514e^{16}}, \frac{414}{3157}\sqrt{11e^{18}} + \frac{23}{3157}\sqrt{2330e^{26}}$	$(\frac{69}{3157}, \frac{138}{3157}, -\frac{460}{3157}, -\frac{529}{3157}, \frac{874}{3157}, \frac{207}{3157}, -\frac{391}{3157}, \frac{276}{3157}, \frac{345}{3157})$ $+\frac{23}{3157}\sqrt{1146e^5} \otimes e_9 + \frac{23}{3157}\sqrt{4566e^1} \otimes e_3$	{12458, 234689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:45	$0, 0, 0, 0, 0, \frac{68}{1817}\sqrt{3e^{12}}, \frac{102}{1817}\sqrt{30e^{13}} + \frac{34}{1817}\sqrt{523e^{24}},$ $\frac{68}{1817}\sqrt{129e^{16}}, \frac{34}{1817}\sqrt{790e^{18}} + \frac{34}{1817}\sqrt{271e^{26}}$	$(-\frac{17}{1817}, -\frac{34}{1817}, \frac{476}{1817}, \frac{493}{1817}, -\frac{595}{1817}, -\frac{51}{1817}, \frac{459}{1817}, -\frac{68}{1817}, -\frac{85}{1817})$ $+\frac{102}{1817}\sqrt{89e^1} \otimes e_5 + \frac{306}{1817}\sqrt{10e^4} \otimes e_9$	{123679, 2345}
9421:45	$0, 0, 0, 0, 0, \frac{5}{137}\sqrt{111e^{12}}, \frac{15}{137}\sqrt{3e^{13}} + \frac{5}{137}\sqrt{241e^{24}}, \frac{5}{137}\sqrt{39e^{16}},$ $\frac{10}{137}\sqrt{43e^{18}} + \frac{5}{137}\sqrt{37e^{26}}$	$(-\frac{5}{137}, -\frac{10}{137}, \frac{20}{137}, \frac{25}{137}, \frac{65}{137}, -\frac{15}{137}, \frac{15}{137}, -\frac{20}{137}, -\frac{25}{137})$ $+\frac{15}{137}\sqrt{23e^5} \otimes e_7 + \frac{60}{137}\sqrt{2e^4} \otimes e_9$	{123679, 2345}
9421:45	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{6e^{12}}, \frac{1}{19}\sqrt{95e^{13}} + \frac{1}{19}\sqrt{85e^{24}}, \frac{4}{19}\sqrt{7e^{16}},$ $\frac{2}{19}\sqrt{30e^{18}} + \frac{8}{19}\sqrt{2e^{26}}$	$(0, 0, -\frac{1}{19}, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, 0, 0)$ $+\frac{1}{19}\sqrt{105e^1} \otimes e_3 + \frac{5}{19}\sqrt{3e^2} \otimes e_4$	{124569, 12469, 234, 2345}
9421:45	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{6e^{12}}, \frac{1}{19}\sqrt{95e^{13}} + \frac{1}{19}\sqrt{85e^{24}}, \frac{4}{19}\sqrt{7e^{16}},$ $\frac{2}{19}\sqrt{30e^{18}} + \frac{8}{19}\sqrt{2e^{26}}$	$(0, 0, -\frac{1}{19}, -\frac{1}{19}, \frac{4}{19}, 0, -\frac{1}{19}, 0, 0)$ $+\frac{1}{19}\sqrt{105e^1} \otimes e_3 - \frac{5}{19}\sqrt{3e^2} \otimes e_4$	{124569, 12469, 234, 2345}
9421:45	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{330e^{12}}, \frac{2}{101}\sqrt{682e^{13}} + \frac{22}{101}\sqrt{10e^{24}}, \frac{2}{101}\sqrt{770e^{16}},$ $\frac{22}{101}\sqrt{10e^{18}} + \frac{4}{101}\sqrt{451e^{26}}$	$(\frac{7}{101}, \frac{14}{101}, -\frac{23}{101}, -\frac{30}{101}, \frac{21}{101}, -\frac{16}{101}, \frac{28}{101}, \frac{35}{101})$ $+\frac{2}{101}\sqrt{2046e^2} \otimes e_4$	{1345689, 134689, 458, 48}
9421:45	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{399e^{12}}, \frac{1}{35}\sqrt{741e^{13}} + \frac{1}{35}\sqrt{817e^{24}}, \frac{1}{35}\sqrt{57e^{16}},$ $\frac{2}{35}\sqrt{19e^{18}} + \frac{1}{35}\sqrt{133e^{26}}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{4}{35}, -\frac{1}{7}, 1, \frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{1}{7})$ $+\frac{3}{35}\sqrt{247e^5} \otimes e_7$	{1359, 1479, 3467, 56}
9421:45	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{330e^{12}}, \frac{39}{133}\sqrt{2e^{13}} + \frac{3}{133}\sqrt{390e^{24}}, \frac{6}{133}\sqrt{70e^{16}},$ $\frac{3}{133}\sqrt{390e^{18}} + \frac{6}{133}\sqrt{134e^{26}}$	$(\frac{6}{133}, \frac{12}{133}, -\frac{9}{133}, -\frac{15}{133}, -\frac{36}{133}, \frac{18}{133}, -\frac{3}{133}, \frac{24}{133}, \frac{30}{133})$ $+\frac{15}{133}\sqrt{10e^3} \otimes e_5 + \frac{3}{133}\sqrt{514e^2} \otimes e_4$	{134689, 458}
9421:45	$0, 0, 0, 0, 0, \frac{105}{3949}\sqrt{62e^{12}}, \frac{140}{3949}\sqrt{78e^{13}} + \frac{35}{3949}\sqrt{2426e^{24}},$ $\frac{140}{3949}\sqrt{15e^{16}}, \frac{35}{3949}\sqrt{1302e^{18}} + \frac{35}{3949}\sqrt{1310e^{26}}$	$(-\frac{35}{3949}, -\frac{70}{3949}, \frac{1015}{3949}, \frac{1050}{3949}, -\frac{1295}{3949}, -\frac{105}{3949}, \frac{980}{3949}, -\frac{140}{3949}, -\frac{175}{3949})$ $+\frac{420}{3949}\sqrt{26e^4} \otimes e_9 + \frac{70}{3949}\sqrt{843e^2} \otimes e_5$	{1569, 457}
9421:45	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{399e^{12}}, \frac{1}{35}\sqrt{741e^{13}} + \frac{1}{35}\sqrt{1558e^{24}}, \frac{6}{35}\sqrt{19e^{16}},$ $\frac{1}{35}\sqrt{817e^{18}} + \frac{1}{35}\sqrt{874e^{26}}$	$(\frac{1}{35}, \frac{2}{35}, \frac{31}{70}, \frac{29}{70}, -\frac{47}{70}, \frac{3}{35}, \frac{33}{70}, \frac{4}{35}, \frac{1}{7})$ $+\frac{3}{35}\sqrt{247e^4} \otimes e_5$	{1235679, 12469, 234, 257}
9421:45	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{186e^{12}}, \frac{5}{218}\sqrt{534e^{13}} + \frac{5}{218}\sqrt{298e^{24}}, \frac{15}{218}\sqrt{70e^{16}},$ $\frac{5}{109}\sqrt{142e^{18}} + \frac{5}{218}\sqrt{466e^{26}}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{20}{109}, -\frac{25}{109}, \frac{10}{109}, \frac{15}{109}, -\frac{15}{109}, \frac{20}{109}, \frac{25}{109})$ $+\frac{15}{109}\sqrt{22e^1} \otimes e_3 + \frac{15}{218}\sqrt{2e^5} \otimes e_7$	{1248, 234689}
9421:45	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{30e^{12}}, \frac{2}{55}\sqrt{130e^{13}} + \frac{1}{55}\sqrt{310e^{24}}, \frac{1}{55}\sqrt{590e^{16}},$ $\frac{2}{11}\sqrt{5e^{18}} + \frac{6}{55}\sqrt{10e^{26}}$	$(\frac{1}{22}, \frac{1}{11}, -\frac{3}{22}, -\frac{2}{11}, -\frac{1}{11}, \frac{3}{22}, -\frac{1}{11}, \frac{2}{11}, \frac{5}{22})$ $+\frac{1}{55}\sqrt{210e^2} \otimes e_5 + \frac{2}{55}\sqrt{195e^1} \otimes e_3$	{1248, 234689}
9421:45	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{21e^{12}}, \frac{1}{35}\sqrt{111e^{13}} + \frac{2}{35}\sqrt{22e^{24}}, \frac{2}{35}\sqrt{31e^{16}},$ $\frac{3}{35}\sqrt{13e^{18}} + \frac{2}{35}\sqrt{26e^{26}}$	$(\frac{1}{35}, \frac{2}{35}, -\frac{2}{35}, -\frac{3}{35}, -\frac{6}{35}, \frac{3}{35}, -\frac{1}{35}, \frac{4}{35}, \frac{1}{7})$ $+\frac{1}{35}\sqrt{53e^4} \otimes e_5 + \frac{2}{35}\sqrt{35e^1} \otimes e_3$	{1248, 234689}
9421:45	$0, 0, 0, 0, 0, \frac{105}{242}\sqrt{2e^{12}}, \frac{7}{242}\sqrt{298e^{13}} + \frac{7}{242}\sqrt{390e^{24}}, \frac{7}{242}\sqrt{290e^{16}},$ $\frac{7}{121}\sqrt{110e^{18}} + \frac{7}{242}\sqrt{646e^{26}}$	$(\frac{7}{121}, \frac{14}{121}, -\frac{28}{121}, -\frac{35}{121}, \frac{28}{121}, \frac{21}{121}, -\frac{21}{121}, \frac{28}{121}, \frac{35}{121})$ $+\frac{35}{242}\sqrt{6e^5} \otimes e_7 + \frac{7}{121}\sqrt{186e^2} \otimes e_4$	{1345689, 458}
9421:45	$0, 0, 0, 0, 0, \frac{4}{529}\sqrt{906e^{12}}, \frac{604}{529}e^{13} + \frac{2}{529}\sqrt{39562e^{24}}, \frac{2}{529}\sqrt{38354e^{16}},$ $\frac{2}{529}\sqrt{39562e^{18}} + \frac{2}{529}\sqrt{46810e^{26}}$	$(\frac{20}{529}, \frac{40}{529}, \frac{227}{529}, \frac{9}{23}, -\frac{377}{529}, \frac{60}{529}, \frac{247}{529}, \frac{80}{529}, \frac{100}{529})$ $+\frac{302}{529}\sqrt{6e^3} \otimes e_5$	{134689, 156789, 378, 458}
9421:45	$0, 0, 0, 0, 0, \frac{16}{557}\sqrt{114e^{12}}, \frac{16}{557}\sqrt{330e^{13}} + \frac{16}{557}\sqrt{190e^{24}}, \frac{16}{557}\sqrt{393e^{16}},$ $\frac{16}{557}\sqrt{355e^{18}} + \frac{32}{557}\sqrt{73e^{26}}$	$(\frac{25}{557}, \frac{50}{557}, -\frac{103}{557}, -\frac{128}{557}, \frac{62}{557}, \frac{75}{557}, -\frac{78}{557}, \frac{100}{557}, \frac{125}{557})$ $+\frac{48}{557}\sqrt{55e^1} \otimes e_3$	{12458, 1248, 2345689, 234689}
9421:45	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{78e^{12}}, \frac{1}{17}\sqrt{34e^{13}} + \frac{1}{17}\sqrt{58e^{24}}, \frac{1}{17}\sqrt{14e^{16}},$ $\frac{2}{17}\sqrt{10e^{18}} + \frac{2}{17}\sqrt{19e^{26}}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{4}{17}, \frac{5}{17})$ $+\frac{1}{17}\sqrt{102e^2} \otimes e_4 + \frac{3}{17}\sqrt{6e^1} \otimes e_5$	{134689, 458}
9421:46	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{134e^{12}}, \frac{1}{84}\sqrt{670e^{13}}, \frac{1}{21}\sqrt{67e^{16}},$ $\frac{1}{42}\sqrt{67e^{18}} + \frac{1}{84}\sqrt{670e^{26}} + \frac{1}{28}\sqrt{134e^{45}}$	$(\frac{5}{84}, \frac{5}{42}, \frac{29}{168}, \frac{53}{56}, -\frac{109}{168}, \frac{5}{28}, \frac{13}{56}, \frac{5}{21}, \frac{25}{84})$ $+\frac{67}{42}e^4 \otimes e_5$	{13469, 13569, 14679, 15679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:46	$0, 0, 0, 0, 0, \frac{62}{2737} \sqrt{287}e^{12}, \frac{930}{2737} \sqrt{5}e^{13}, \frac{992}{2737} \sqrt{2}e^{16},$ $\frac{62}{2737} \sqrt{161}e^{18} + \frac{124}{2737} \sqrt{209}e^{26} + \frac{124}{2737} \sqrt{145}e^{45}$	$(-\frac{62}{2737}, -\frac{124}{2737}, \frac{1612}{2737}, -\frac{155}{2737}, -\frac{155}{2737}, -\frac{186}{2737}, \frac{1550}{2737}, -\frac{248}{2737}, -\frac{310}{2737})$ $+ \frac{124}{161} \sqrt{2}e^3 \otimes e_9$	{1234568, 12368, 2489}
9421:46	$0, 0, 0, 0, 0, \frac{46}{2593} \sqrt{813}e^{12}, \frac{46}{2593} \sqrt{1079}e^{13}, \frac{184}{2593} \sqrt{93}e^{16},$ $\frac{138}{2593} \sqrt{137}e^{18} + \frac{276}{2593} \sqrt{22}e^{26} + \frac{184}{2593} \sqrt{3}e^{45}$	$(\frac{138}{2593}, \frac{276}{2593}, -\frac{920}{2593}, \frac{345}{2593}, \frac{345}{2593}, \frac{414}{2593}, -\frac{782}{2593}, \frac{552}{2593}, \frac{690}{2593})$ $+ \frac{92}{2593} \sqrt{574}e^1 \otimes e_3$	{1248, 2345689, 23689}
9421:46	$0, 0, 0, 0, 0, \frac{46}{2593} \sqrt{813}e^{12}, \frac{46}{2593} \sqrt{1217}e^{13}, \frac{92}{2593} \sqrt{202}e^{16},$ $\frac{46}{2593} \sqrt{1063}e^{18} + \frac{184}{2593} \sqrt{94}e^{26} + \frac{184}{2593} \sqrt{3}e^{45}$	$(\frac{138}{2593}, \frac{276}{2593}, -\frac{920}{2593}, \frac{345}{2593}, \frac{345}{2593}, \frac{414}{2593}, -\frac{782}{2593}, \frac{552}{2593}, \frac{690}{2593})$ $+ \frac{92}{2593} \sqrt{574}e^2 \otimes e_7$	{1456789, 16789, 3478}
9421:46	$0, 0, 0, 0, 0, \frac{31}{1849} \sqrt{287}e^{12}, \frac{465}{1849} \sqrt{5}e^{13}, \frac{496}{1849} \sqrt{2}e^{16},$ $\frac{31}{1849} \sqrt{161}e^{18} + \frac{62}{1849} \sqrt{209}e^{26} + \frac{62}{1849} \sqrt{145}e^{45}$	$(-\frac{31}{1849}, -\frac{62}{1849}, \frac{806}{1849}, \frac{403}{1849}, -\frac{558}{1849}, -\frac{93}{1849}, \frac{775}{1849}, -\frac{124}{1849}, -\frac{155}{1849})$ $+ \frac{1054}{1849} \sqrt{2}e^3 \otimes e_9 + \frac{961}{1849} e^4 \otimes e_5$	{2489, 2589}
9421:46	$0, 0, 0, 0, 0, \frac{23}{1561} \sqrt{813}e^{12}, \frac{23}{1561} \sqrt{1079}e^{13}, \frac{92}{1561} \sqrt{93}e^{16},$ $\frac{69}{1561} \sqrt{137}e^{18} + \frac{138}{1561} \sqrt{22}e^{26} + \frac{92}{1561} \sqrt{3}e^{45}$	$(\frac{69}{1561}, \frac{138}{1561}, -\frac{460}{1561}, \frac{437}{1561}, -\frac{92}{1561}, \frac{207}{1561}, -\frac{391}{1561}, \frac{276}{1561}, \frac{345}{1561})$ $+ \frac{46}{1561} \sqrt{574}e^1 \otimes e_3 + \frac{529}{1561} e^4 \otimes e_5$	{1248, 1258}
9421:46	$0, 0, 0, 0, 0, \frac{23}{1301} \sqrt{870}e^{12}, \frac{46}{1301} \sqrt{305}e^{13}, \frac{69}{1301} \sqrt{178}e^{16},$ $\frac{345}{1301} \sqrt{6}e^{18} + \frac{69}{1301} \sqrt{94}e^{26} + \frac{23}{1301} \sqrt{114}e^{45}$	$(\frac{69}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{138}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301} \sqrt{138}e^4 \otimes e_7 + \frac{46}{1301} \sqrt{610}e^1 \otimes e_3$	{1258, 23689}
9421:46	$0, 0, 0, 0, 0, \frac{31}{8213} \sqrt{1574}e^{12}, \frac{186}{8213} \sqrt{210}e^{13}, \frac{31}{8213} \sqrt{3086}e^{16},$ $\frac{31}{8213} \sqrt{1594}e^{18} + \frac{31}{8213} \sqrt{2942}e^{26} + \frac{31}{8213} \sqrt{5026}e^{45}$	$(-\frac{31}{8213}, -\frac{62}{8213}, \frac{806}{8213}, \frac{1736}{8213}, -\frac{1891}{8213}, -\frac{93}{8213}, \frac{775}{8213}, -\frac{124}{8213}, -\frac{155}{8213})$ $+ \frac{62}{8213} \sqrt{1982}e^3 \otimes e_9 + \frac{93}{8213} \sqrt{806}e^4 \otimes e_7$	{1345, 469}
9421:46	$0, 0, 0, 0, 0, \frac{23}{1561} \sqrt{813}e^{12}, \frac{23}{1561} \sqrt{1217}e^{13}, \frac{46}{1561} \sqrt{202}e^{16},$ $\frac{23}{1561} \sqrt{1063}e^{18} + \frac{92}{1561} \sqrt{94}e^{26} + \frac{92}{1561} \sqrt{3}e^{45}$	$(\frac{69}{1561}, \frac{138}{1561}, -\frac{460}{1561}, \frac{437}{1561}, -\frac{92}{1561}, \frac{207}{1561}, -\frac{391}{1561}, \frac{276}{1561}, \frac{345}{1561})$ $+ \frac{46}{1561} \sqrt{574}e^2 \otimes e_7 + \frac{529}{1561} e^4 \otimes e_5$	{3478, 3578}
9421:46	$0, 0, 0, 0, 0, \frac{1}{332} \sqrt{4170}e^{12}, \frac{1}{332} \sqrt{84790}e^{13}, \frac{1}{166} \sqrt{5282}e^{16},$ $\frac{2}{83} \sqrt{695}e^{18} + \frac{1}{332} \sqrt{6394}e^{26} + \frac{1}{332} \sqrt{74226}e^{45}$	$(\frac{23}{332}, \frac{23}{166}, -\frac{205}{664}, \frac{397}{664}, -\frac{167}{664}, \frac{69}{332}, -\frac{159}{664}, \frac{23}{83}, \frac{115}{332})$ $+ \frac{1}{166} \sqrt{39198}e^4 \otimes e_7$	{1345, 17, 35679, 469}
9421:47	$0, 0, 0, 0, 0, \frac{13}{311} \sqrt{267}e^{12}, \frac{65}{311} \sqrt{5}e^{13}, \frac{65}{311} \sqrt{3}e^{26},$ $\frac{13}{311} \sqrt{285}e^{16} + \frac{39}{311} \sqrt{19}e^{28} + \frac{13}{311} \sqrt{21}e^{45}$	$(\frac{39}{311}, \frac{39}{622}, -\frac{130}{311}, \frac{78}{311}, \frac{39}{622}, \frac{117}{622}, -\frac{91}{311}, \frac{78}{311}, \frac{195}{622})$ $+ \frac{13}{311} \sqrt{445}e^1 \otimes e_3 + \frac{39}{311} \sqrt{13}e^4 \otimes e_7$	{234689, 3458}
9421:47	$0, 0, 0, 0, 0, \frac{52}{2407} \sqrt{1410}e^{12}, \frac{52}{2407} \sqrt{941}e^{13}, \frac{52}{2407} \sqrt{471}e^{26},$ $\frac{52}{2407} \sqrt{1626}e^{16} + \frac{1092}{2407} \sqrt{2}e^{28} + \frac{52}{2407} \sqrt{177}e^{45}$	$(\frac{312}{2407}, \frac{156}{2407}, -\frac{1040}{2407}, \frac{390}{2407}, \frac{390}{2407}, \frac{468}{2407}, -\frac{728}{2407}, \frac{624}{2407}, \frac{780}{2407})$ $+ \frac{52}{2407} \sqrt{2194}e^1 \otimes e_3$	{2345689, 23689, 348}
9421:47	$0, 0, 0, 0, 0, \frac{240}{3251} \sqrt{2}e^{12}, \frac{40}{3251} \sqrt{1337}e^{13}, \frac{40}{3251} \sqrt{1361}e^{26},$ $\frac{160}{3251} \sqrt{77}e^{16} + \frac{40}{3251} \sqrt{1298}e^{28} + \frac{120}{3251} \sqrt{13}e^{45}$	$(\frac{240}{3251}, \frac{120}{3251}, -\frac{920}{3251}, \frac{700}{3251}, -\frac{100}{3251}, \frac{360}{3251}, -\frac{680}{3251}, \frac{480}{3251}, \frac{600}{3251})$ $+ \frac{40}{3251} \sqrt{2434}e^2 \otimes e_7 + \frac{800}{3251} e^4 \otimes e_5$	{146789, 156789}
9421:47	$0, 0, 0, 0, 0, \frac{32}{4251} \sqrt{782}e^{12}, \frac{32}{4251} \sqrt{1915}e^{13}, \frac{32}{4251} \sqrt{367}e^{26},$ $\frac{64}{4251} \sqrt{178}e^{16} + \frac{64}{4251} \sqrt{205}e^{28} + \frac{32}{4251} \sqrt{1381}e^{45}$	$(-\frac{32}{4251}, -\frac{16}{4251}, \frac{144}{1417}, \frac{304}{1417}, -\frac{992}{4251}, -\frac{16}{1417}, \frac{400}{4251}, -\frac{64}{4251}, -\frac{80}{4251})$ $+ \frac{128}{4251} \sqrt{119}e^4 \otimes e_7 + \frac{32}{4251} \sqrt{1958}e^3 \otimes e_9$	{125679, 1345}
9421:47	$0, 0, 0, 0, 0, \frac{64}{3867} \sqrt{510}e^{12}, \frac{64}{3867} \sqrt{1115}e^{13}, \frac{64}{3867} \sqrt{159}e^{26},$ $\frac{128}{3867} \sqrt{2}e^{16} + \frac{640}{1289} e^{28} + \frac{64}{3867} \sqrt{645}e^{45}$	$(-\frac{128}{3867}, -\frac{64}{3867}, \frac{576}{1289}, \frac{288}{1289}, -\frac{1184}{3867}, -\frac{64}{1289}, \frac{1600}{3867}, -\frac{256}{3867}, -\frac{320}{3867})$ $+ \frac{2048}{3867} e^4 \otimes e_5 + \frac{64}{1289} \sqrt{262}e^3 \otimes e_9$	{4689, 5689}
9421:47	$0, 0, 0, 0, 0, \frac{64}{2843} \sqrt{510}e^{12}, \frac{64}{2843} \sqrt{1115}e^{13}, \frac{64}{2843} \sqrt{159}e^{26},$ $\frac{128}{2843} \sqrt{2}e^{16} + \frac{1920}{2843} e^{28} + \frac{64}{2843} \sqrt{645}e^{45}$	$(-\frac{128}{2843}, -\frac{64}{2843}, \frac{1728}{2843}, -\frac{160}{2843}, -\frac{160}{2843}, \frac{192}{2843}, \frac{1600}{2843}, -\frac{256}{2843}, -\frac{320}{2843})$ $+ \frac{192}{2843} \sqrt{262}e^3 \otimes e_9$	{234578, 2378, 4689}
9421:47	$0, 0, 0, 0, 0, \frac{240}{2851} \sqrt{2}e^{12}, \frac{40}{2851} \sqrt{1337}e^{13}, \frac{40}{2851} \sqrt{1361}e^{26},$ $\frac{160}{2851} \sqrt{77}e^{16} + \frac{40}{2851} \sqrt{1298}e^{28} + \frac{120}{2851} \sqrt{13}e^{45}$	$(\frac{240}{2851}, \frac{120}{2851}, -\frac{920}{2851}, \frac{300}{2851}, \frac{300}{2851}, \frac{360}{2851}, -\frac{680}{2851}, \frac{480}{2851}, \frac{600}{2851})$ $+ \frac{40}{2851} \sqrt{2434}e^2 \otimes e_7$	{123458, 1238, 146789}
9421:47	$0, 0, 0, 0, 0, \frac{8}{31} \sqrt{3}e^{12}, \frac{12}{31} \sqrt{5}e^{13}, \frac{4}{31} \sqrt{15}e^{26},$ $\frac{4}{31} \sqrt{30}e^{16} + \frac{4}{31} \sqrt{6}e^{28} + \frac{4}{31} \sqrt{39}e^{45}$	$(\frac{4}{31}, \frac{2}{31}, -\frac{10}{31}, \frac{18}{31}, -\frac{8}{31}, \frac{6}{31}, -\frac{6}{31}, \frac{8}{31}, \frac{10}{31})$ $+ \frac{4}{31} \sqrt{78}e^4 \otimes e_7$	{123469, 125679, 1345, 17}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:47	$0, 0, 0, 0, 0, \frac{14}{339}\sqrt{66}e^{12}, \frac{14}{339}\sqrt{110}e^{13}, \frac{28}{339}\sqrt{33}e^{26},$ $\frac{7}{339}\sqrt{55}e^{16} + \frac{7}{113}\sqrt{33}e^{28} + \frac{7}{339}\sqrt{429}e^{45}$	$(\frac{40}{339}, \frac{20}{339}, \frac{33}{226}, \frac{213}{226}, -\frac{439}{678}, \frac{20}{113}, \frac{179}{678}, \frac{80}{339}, \frac{100}{339})$ $+ \frac{539}{339}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
9421:47	$0, 0, 0, 0, 0, \frac{52}{3083}\sqrt{1410}e^{12}, \frac{52}{3083}\sqrt{941}e^{13}, \frac{52}{3083}\sqrt{471}e^{26},$ $\frac{52}{3083}\sqrt{1626}e^{16} + \frac{1092}{3083}\sqrt{2}e^{28} + \frac{52}{3083}\sqrt{177}e^{45}$	$(\frac{312}{3083}, \frac{156}{3083}, -\frac{1040}{3083}, \frac{1066}{3083}, -\frac{286}{3083}, \frac{468}{3083}, -\frac{728}{3083}, \frac{624}{3083}, \frac{780}{3083})$ $+ \frac{1352}{3083}e^4 \otimes e_5 + \frac{52}{3083}\sqrt{2194}e^1 \otimes e_3$	{348, 358}
9421:48	$0, 0, 0, 0, 0, \frac{61}{5453}\sqrt{454}e^{12}, \frac{1464}{5453}\sqrt{5}e^{13} + \frac{61}{5453}\sqrt{4074}e^{45},$ $\frac{61}{5453}\sqrt{1030}e^{16}, \frac{61}{5453}\sqrt{3374}e^{18} + \frac{61}{5453}\sqrt{1646}e^{26} + \frac{122}{5453}\sqrt{391}e^{34}$	$(-\frac{61}{5453}, -\frac{122}{5453}, \frac{1586}{5453}, -\frac{1891}{5453}, \frac{488}{779}, -\frac{183}{5453}, \frac{1525}{5453}, -\frac{244}{5453}, -\frac{305}{5453})$ $+ \frac{305}{5453}\sqrt{362}e^5 \otimes e_9$	{345, 57}
9421:48	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{690}e^{12}, \frac{11}{122}\sqrt{10}e^{13} + \frac{1}{122}\sqrt{690}e^{45}, \frac{1}{122}\sqrt{890}e^{16},$ $\frac{1}{61}\sqrt{210}e^{18} + \frac{1}{122}\sqrt{1670}e^{26} + \frac{1}{61}\sqrt{210}e^{34}$	$(\frac{1}{61}, \frac{2}{61}, -\frac{4}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{3}{61}, -\frac{3}{61}, \frac{4}{61}, \frac{5}{61})$ $+ \frac{1}{122}\sqrt{2230}e^2 \otimes e_7$	{156789, 3578}
9421:48	$0, 0, 0, 0, 0, \frac{39}{1273}\sqrt{317}e^{12}, \frac{39}{1273}\sqrt{415}e^{13} + \frac{78}{1273}\sqrt{26}e^{45}, \frac{780}{1273}e^{16},$ $\frac{39}{1273}\sqrt{95}e^{18} + \frac{78}{1273}\sqrt{86}e^{26} + \frac{156}{1273}\sqrt{73}e^{34}$	$(\frac{117}{1273}, \frac{234}{1273}, -\frac{156}{1273}, \frac{39}{67}, -\frac{780}{1273}, \frac{351}{1273}, -\frac{39}{1273}, \frac{468}{1273}, \frac{585}{1273})$ $+ \frac{39}{1273}\sqrt{2105}e^4 \otimes e_5$	{156, 359}
9421:49	$0, 0, 0, 0, 0, \frac{648}{5383}\sqrt{22}e^{12}, \frac{81}{5383}\sqrt{1090}e^{13} + \frac{243}{5383}\sqrt{66}e^{45},$ $\frac{81}{5383}\sqrt{754}e^{26}, \frac{324}{5383}\sqrt{26}e^{16} + \frac{162}{5383}\sqrt{322}e^{28} + \frac{81}{5383}\sqrt{4718}e^{34}$	$(\frac{972}{5383}, \frac{486}{5383}, -\frac{891}{5383}, \frac{3321}{5383}, \frac{3240}{5383}, \frac{1458}{5383}, \frac{81}{5383}, \frac{1944}{5383}, \frac{2430}{5383})$ $+ \frac{162}{5383}\sqrt{2230}e^4 \otimes e_5$	{2346, 359}
9421:49	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{7}e^{12}, \frac{6}{179}\sqrt{35}e^{13} + \frac{2}{179}\sqrt{195}e^{45}, \frac{2}{179}\sqrt{321}e^{26},$ $\frac{2}{179}\sqrt{247}e^{16} + \frac{4}{179}\sqrt{95}e^{28} + \frac{4}{179}\sqrt{46}e^{34}$	$(\frac{4}{179}, \frac{2}{179}, -\frac{10}{179}, \frac{20}{179}, -\frac{26}{179}, \frac{6}{179}, -\frac{6}{179}, \frac{8}{179}, \frac{10}{179})$ $+ \frac{50}{179}e^2 \otimes e_7$	{1238, 156789}
9421:52	$0, 0, 0, 0, 0, \frac{12}{3865}\sqrt{26962}e^{12}, \frac{2}{3865}\sqrt{211731}e^{13}, \frac{4}{3865}\sqrt{159393}e^{26},$ $\frac{8}{3865}\sqrt{4758}e^{17} + \frac{52}{3865}\sqrt{427}e^{28}$	$(\frac{823}{3865}, \frac{4}{773}, -\frac{763}{3865}, -\frac{1566}{3865}, \frac{423}{3865}, \frac{843}{773}, \frac{12}{3865}, \frac{863}{3865}, \frac{883}{3865})$ $+ \frac{2}{3865}\sqrt{1152229}e^1 \otimes e_3 + \frac{4}{3865}\sqrt{1037}e^2 \otimes e_4$	{145689, 14689, 34, 345}
9421:52	$0, 0, 0, 0, 0, \frac{3}{1529}\sqrt{168402}e^{12}, \frac{2}{1529}\sqrt{54483}e^{13}, \frac{1}{1529}\sqrt{287274}e^{26},$ $\frac{2}{1529}\sqrt{351663}e^{17} + \frac{52}{1529}\sqrt{254}e^{28}$	$(\frac{710}{1529}, -\frac{7}{139}, -\frac{941}{1529}, \frac{261}{1529}, \frac{261}{1529}, \frac{633}{1529}, -\frac{21}{139}, \frac{4}{11}, \frac{479}{1529})$ $+ \frac{2}{1529}\sqrt{1046734}e^1 \otimes e_3$	{124589, 12489, 1289, 23456, 2346, 236}
9421:52	$0, 0, 0, 0, 0, \frac{2}{3805}\sqrt{304337}e^{12}, \frac{2}{3805}\sqrt{18469}e^{13}, \frac{4}{3805}\sqrt{159797}e^{26},$ $\frac{2}{3805}\sqrt{103587}e^{17} + \frac{2}{3805}\sqrt{882497}e^{28}$	$(-\frac{83}{3805}, \frac{114}{3805}, \frac{85}{761}, \frac{373}{761}, -\frac{1492}{3805}, \frac{31}{3805}, \frac{342}{3805}, \frac{29}{761}, \frac{259}{3805})$ $+ \frac{2}{3805}\sqrt{1137851}e^4 \otimes e_9 + \frac{4}{3805}\sqrt{389455}e^2 \otimes e_5$	{12478, 135689, 23679, 45}
9421:52	$0, 0, 0, 0, 0, \frac{23}{1949}\sqrt{663}e^{12}, \frac{23}{1949}\sqrt{102}e^{13}, \frac{23}{1949}\sqrt{606}e^{26},$ $\frac{23}{1949}\sqrt{393}e^{17} + \frac{23}{1949}\sqrt{595}e^{28}$	$(\frac{230}{1949}, -\frac{23}{1949}, -\frac{299}{1949}, -\frac{552}{1949}, \frac{690}{1949}, \frac{207}{1949}, -\frac{69}{1949}, \frac{184}{1949}, \frac{161}{1949})$ $+ \frac{23}{1949}\sqrt{1023}e^5 \otimes e_9 + \frac{23}{1949}\sqrt{1057}e^1 \otimes e_3 + \frac{23}{1949}\sqrt{1461}e^2 \otimes e_4$	{14689, 345}
9421:52	$0, 0, 0, 0, 0, \frac{6}{4709}\sqrt{168402}e^{12}, \frac{4}{4709}\sqrt{54483}e^{13}, \frac{2}{4709}\sqrt{287274}e^{26},$ $\frac{4}{4709}\sqrt{351663}e^{17} + \frac{104}{4709}\sqrt{254}e^{28}$	$(\frac{1420}{4709}, -\frac{154}{4709}, \frac{1882}{4709}, \frac{2173}{4709}, \frac{1129}{4709}, \frac{1266}{4709}, \frac{462}{4709}, \frac{1112}{4709}, \frac{958}{4709})$ $+ \frac{3302}{4709}e^4 \otimes e_5 + \frac{4}{4709}\sqrt{1046734}e^1 \otimes e_3$	{12489, 12589, 2346, 2356}
9421:52	$0, 0, 0, 0, 0, \frac{1}{1144}\sqrt{247214}e^{12}, \frac{3}{1144}\sqrt{38338}e^{13}, \frac{3}{1144}\sqrt{6610}e^{26},$ $\frac{1}{1144}\sqrt{287535}e^{17} + \frac{1}{1144}\sqrt{287535}e^{28}$	$(-\frac{313}{2288}, \frac{119}{2288}, \frac{335}{1144}, \frac{683}{1144}, -\frac{163}{572}, -\frac{97}{1144}, \frac{357}{2288}, -\frac{75}{2288}, \frac{1}{52})$ $+ \frac{1}{1144}\sqrt{609442}e^3 \otimes e_5 + \frac{1}{572}\sqrt{181114}e^4 \otimes e_9$	{12369, 1457, 2458, 36789}
9421:52	$0, 0, 0, 0, 0, \frac{138}{395}\sqrt{3}e^{12}, \frac{6}{395}\sqrt{1081}e^{13}, \frac{12}{395}\sqrt{138}e^{26},$ $\frac{12}{395}\sqrt{667}e^{17} + \frac{12}{395}\sqrt{667}e^{28}$	$(-\frac{22}{395}, \frac{1}{395}, \frac{5}{395}, \frac{1}{79}, \frac{72}{395}, -\frac{21}{395}, \frac{3}{395}, -\frac{4}{79}, -\frac{19}{395})$ $+ \frac{6}{395}\sqrt{7429}e^4 \otimes e_9$	{123569, 12369, 1457, 147, 2458, 248, 356789, 36789}
9421:52	$0, 0, 0, 0, 0, \frac{10}{4289}\sqrt{941}e^{12}, \frac{6}{4289}\sqrt{87513}e^{13}, \frac{4}{4289}\sqrt{39522}e^{26},$ $\frac{4}{4289}\sqrt{310530}e^{17} + \frac{8}{4289}\sqrt{17879}e^{28}$	$(\frac{354}{4289}, \frac{7}{4289}, -\frac{333}{4289}, \frac{2257}{4289}, \frac{1528}{4289}, \frac{361}{4289}, \frac{21}{4289}, \frac{368}{4289}, \frac{375}{4289})$ $+ \frac{2}{4289}\sqrt{1649573}e^4 \otimes e_9 + \frac{8}{4289}\sqrt{119507}e^1 \otimes e_5$	{12478, 13689, 235679, 45}
9421:52	$0, 0, 0, 0, 0, \frac{1}{392}\sqrt{42054}e^{12}, \frac{1}{392}\sqrt{141810}e^{13}, \frac{5}{392}\sqrt{978}e^{26},$ $\frac{1}{392}\sqrt{28851}e^{17} + \frac{1}{392}\sqrt{28851}e^{28}$	$(-\frac{113}{784}, \frac{127}{784}, \frac{247}{392}, -\frac{121}{196}, \frac{75}{392}, \frac{1}{56}, \frac{381}{784}, \frac{141}{784}, \frac{67}{196})$ $+ \frac{1}{392}\sqrt{310026}e^3 \otimes e_4$	{123569, 12369, 1457, 147, 2458, 248, 356789, 36789}
9421:52	$0, 0, 0, 0, 0, \frac{18}{4181}\sqrt{3345}e^{12}, \frac{10}{4181}\sqrt{3345}e^{13}, \frac{4}{4181}\sqrt{43485}e^{26},$ $\frac{90}{4181}\sqrt{669}e^{17} + \frac{2}{4181}\sqrt{326695}e^{28}$	$(\frac{779}{4181}, -\frac{224}{4181}, -\frac{1451}{4181}, \frac{2337}{4181}, \frac{468}{4181}, \frac{15}{113}, -\frac{672}{4181}, \frac{331}{4181}, \frac{107}{4181})$ $+ \frac{2}{4181}\sqrt{2083935}e^4 \otimes e_9 + \frac{4}{4181}\sqrt{514015}e^1 \otimes e_3$	{124578, 12478, 235679, 23679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:52	$0, 0, 0, 0, 0, \frac{2}{3577}\sqrt{528915e^{12}}, \frac{4}{3577}\sqrt{81005e^{13}}, \frac{2}{3577}\sqrt{779554e^{26}},$ $\frac{4}{3577}\sqrt{65757e^{17}} + \frac{10}{3577}\sqrt{27637e^{28}}$	$(-\frac{167}{3577}, \frac{356}{3577}, \frac{1235}{3577}, -\frac{1550}{3577}, -\frac{671}{3577}, \frac{27}{511}, \frac{1068}{3577}, \frac{545}{3577}, \frac{901}{3577})$ $+\frac{2}{3577}\sqrt{1070219e^3} \otimes e_5 + \frac{2}{3577}\sqrt{1907906e^2} \otimes e_4$	{1238, 1456789, 2569, 347}
9421:52	$0, 0, 0, 0, 0, \frac{2}{4889}\sqrt{252805e^{12}}, \frac{8}{4889}\sqrt{105245e^{13}}, \frac{14}{4889}\sqrt{4030e^{26}},$ $\frac{2}{4889}\sqrt{1094765e^{17}} + \frac{4}{4889}\sqrt{62930e^{28}}$	$(\frac{234}{4889}, \frac{363}{4889}, \frac{855}{4889}, -\frac{1936}{4889}, -\frac{1315}{4889}, \frac{597}{4889}, \frac{1089}{4889}, \frac{960}{4889}, \frac{1323}{4889})$ $+\frac{2}{4889}\sqrt{2019185e^3} \otimes e_5 + \frac{2}{4889}\sqrt{2692970e^1} \otimes e_4$	{12389, 15678, 2456, 3479}
9421:52	$0, 0, 0, 0, 0, \frac{4}{3427}\sqrt{148953e^{12}}, \frac{4}{3427}\sqrt{54149e^{13}}, \frac{4}{3427}\sqrt{117986e^{26}},$ $\frac{8}{3427}\sqrt{8823e^{17}} + \frac{4}{3427}\sqrt{56571e^{28}}$	$(\frac{422}{3427}, \frac{176}{3427}, \frac{106}{3427}, -\frac{962}{3427}, -\frac{1208}{3427}, \frac{26}{149}, \frac{528}{3427}, \frac{774}{3427}, \frac{950}{3427})$ $+\frac{4}{3427}\sqrt{238913e^1} \otimes e_4 + \frac{4}{3427}\sqrt{281471e^2} \otimes e_5$	{1278, 135689, 234679, 45}
9421:52	$0, 0, 0, 0, 0, \frac{2}{383}\sqrt{1830e^{12}}, \frac{4}{383}\sqrt{1830e^{13}}, \frac{2}{383}\sqrt{7930e^{26}},$ $\frac{6}{383}\sqrt{610e^{17}} + \frac{6}{383}\sqrt{610e^{28}}$	$(\frac{30}{383}, \frac{28}{383}, \frac{54}{383}, 1, -\frac{227}{383}, \frac{58}{383}, \frac{84}{383}, \frac{86}{383}, \frac{114}{383})$ $+\frac{610}{383}e^4 \otimes e_5$	{12478, 12578, 134689, 135689, 234679, 235679, 4, 5}
9421:52	$0, 0, 0, 0, 0, \frac{55}{1601}\sqrt{258e^{12}}, \frac{2}{1601}\sqrt{313599e^{13}}, \frac{1}{1601}\sqrt{269610e^{26}},$ $\frac{4}{1601}\sqrt{87978e^{17}} + \frac{18}{1601}\sqrt{1419e^{28}}$	$(\frac{388}{1601}, \frac{77}{1601}, -\frac{157}{1601}, -\frac{1031}{1601}, \frac{285}{1601}, \frac{465}{1601}, \frac{231}{1601}, \frac{542}{1601}, \frac{619}{1601})$ $+\frac{2}{1601}\sqrt{933702e^1} \otimes e_4$	{123589, 12389, 15678, 1678, 2456, 246, 34579, 3479}
9421:52	$0, 0, 0, 0, 0, \frac{1}{527}\sqrt{126670e^{12}}, \frac{4}{527}\sqrt{1195e^{13}}, \frac{1}{1581}\sqrt{1259530e^{26}},$ $\frac{1}{1581}\sqrt{523410e^{17}} + \frac{7}{527}\sqrt{2390e^{28}}$	$(\frac{25}{527}, \frac{8}{93}, \frac{111}{527}, -\frac{353}{527}, \frac{87}{527}, \frac{211}{1581}, \frac{8}{31}, \frac{347}{1581}, \frac{161}{527})$ $+\frac{20}{1581}\sqrt{7887e^2} \otimes e_4$	{1258, 128, 13456789, 1346789, 23569, 2369, 457, 47}
9421:53	$0, 0, 0, 0, 0, \frac{4}{285}\sqrt{1001e^{12}}, \frac{2}{285}\sqrt{1001e^{34}}, \frac{16}{285}\sqrt{77e^{16}},$ $\frac{4}{95}\sqrt{77e^{18}} + \frac{8}{285}\sqrt{154e^{37}}$	$(\frac{8}{57}, -\frac{13}{285}, \frac{29}{95}, -\frac{67}{285}, -\frac{2}{5}, \frac{9}{95}, \frac{4}{57}, \frac{67}{285}, \frac{107}{285})$ $+\frac{2}{285}\sqrt{7161e^3} \otimes e_4 + \frac{2}{95}\sqrt{1309e^1} \otimes e_5$	{12378, 14679, 2456789, 357}
9421:53	$0, 0, 0, 0, 0, \frac{4}{4455}\sqrt{29842e^{12}}, \frac{4}{1485}\sqrt{7287e^{34}}, \frac{4}{4455}\sqrt{328609e^{16}},$ $\frac{4}{891}\sqrt{11451e^{18}} + \frac{8}{4455}\sqrt{39211e^{37}}$	$(\frac{7}{27}, -\frac{1621}{4455}, \frac{28}{81}, -\frac{412}{1485}, \frac{7}{55}, -\frac{466}{4455}, \frac{304}{4455}, \frac{689}{4455}, \frac{1844}{4455})$ $+\frac{4}{4455}\sqrt{560058e^3} \otimes e_4 + \frac{4}{4455}\sqrt{789078e^1} \otimes e_2$	{13578, 1378, 2357, 237}
9421:53	$0, 0, 0, 0, 0, \frac{8}{309}\sqrt{1351e^{12}}, \frac{4}{309}\sqrt{965e^{34}}, \frac{4}{309}\sqrt{965e^{16}},$ $\frac{2}{103}\sqrt{579e^{18}} + \frac{4}{309}\sqrt{5597e^{37}}$	$(-\frac{15}{103}, \frac{197}{309}, \frac{11}{309}, \frac{40}{309}, -\frac{63}{103}, \frac{152}{309}, \frac{17}{103}, \frac{107}{309}, \frac{62}{309})$ $+\frac{2}{309}\sqrt{48057e^2} \otimes e_5$	{123489, 124789, 13567, 156, 23678, 268, 3459, 4579}
9421:53	$0, 0, 0, 0, 0, \frac{8}{377}\sqrt{651e^{12}}, \frac{4}{377}\sqrt{465e^{34}}, \frac{4}{377}\sqrt{465e^{16}},$ $\frac{4}{377}\sqrt{1271e^{18}} + \frac{8}{377}\sqrt{651e^{37}}$	$(-\frac{1}{29}, \frac{127}{377}, \frac{112}{377}, -\frac{136}{377}, -\frac{121}{377}, \frac{114}{377}, -\frac{24}{377}, \frac{101}{377}, \frac{88}{377})$ $+\frac{4}{377}\sqrt{5146e^2} \otimes e_5 + \frac{4}{377}\sqrt{5146e^3} \otimes e_4$	{124789, 13567, 23678, 4579}
9421:53	$0, 0, 0, 0, 0, \frac{4}{1011}\sqrt{545e^{12}}, \frac{2}{1011}\sqrt{10355e^{34}}, \frac{2}{1011}\sqrt{10355e^{16}},$ $\frac{10}{337}\sqrt{109e^{18}} + \frac{1}{1011}\sqrt{334630e^{37}}$	$(-\frac{22}{1011}, \frac{106}{1011}, \frac{65}{337}, -\frac{350}{1011}, \frac{195}{337}, \frac{28}{337}, -\frac{155}{1011}, \frac{62}{1011}, \frac{40}{1011})$ $+\frac{1}{1011}\sqrt{513390e^5} \otimes e_9 + \frac{2}{1011}\sqrt{116085e^3} \otimes e_4$	{123578, 14679, 246789, 357}
9421:53	$0, 0, 0, 0, 0, \frac{2}{309}\sqrt{3045e^{12}}, \frac{2}{103}\sqrt{290e^{34}}, \frac{2}{309}\sqrt{14935e^{16}},$ $\frac{2}{103}\sqrt{1885e^{18}} + \frac{2}{309}\sqrt{3045e^{37}}$	$(\frac{110}{309}, -\frac{60}{103}, \frac{19}{103}, \frac{12}{103}, \frac{18}{103}, -\frac{70}{309}, \frac{31}{103}, \frac{40}{309}, \frac{50}{103})$ $+\frac{10}{309}\sqrt{1479e^1} \otimes e_2$	{13458, 1348, 14578, 1478, 234, 2345, 2457, 247}
9421:53	$0, 0, 0, 0, 0, \frac{21}{491}\sqrt{74e^{12}}, \frac{3}{491}\sqrt{546e^{34}}, \frac{6}{491}\sqrt{665e^{16}},$ $\frac{3}{491}\sqrt{2870e^{18}} + \frac{18}{491}\sqrt{42e^{37}}$	$(-\frac{42}{491}, \frac{135}{491}, -\frac{15}{491}, \frac{39}{491}, -\frac{168}{491}, \frac{93}{491}, \frac{24}{491}, \frac{51}{491}, \frac{9}{491})$ $+\frac{3}{491}\sqrt{6342e^1} \otimes e_5 + \frac{6}{491}\sqrt{1442e^2} \otimes e_9$	{12378, 128, 13469, 14679}
9421:53	$0, 0, 0, 0, 0, \frac{16}{81}\sqrt{10e^{12}}, \frac{8}{81}\sqrt{10e^{34}}, \frac{8}{27}\sqrt{6e^{16}},$ $\frac{8}{81}\sqrt{42e^{18}} + \frac{16}{81}e^{37}$	$(\frac{13}{81}, -\frac{5}{81}, \frac{4}{27}, \frac{10}{81}, -\frac{17}{27}, \frac{8}{81}, \frac{22}{81}, \frac{7}{27}, \frac{34}{81})$ $+\frac{16}{81}\sqrt{33e^1} \otimes e_5$	{12348, 12478, 13679, 169, 2356789, 25689, 345, 457}
9421:53	$0, 0, 0, 0, 0, \frac{2}{627}\sqrt{4879e^{12}}, \frac{4}{627}\sqrt{3485e^{34}}, \frac{4}{627}\sqrt{3485e^{16}},$ $\frac{6}{209}\sqrt{697e^{18}} + \frac{1}{627}\sqrt{216070e^{37}}$	$(-\frac{68}{627}, \frac{134}{627}, -\frac{25}{209}, \frac{80}{627}, \frac{1}{19}, \frac{2}{627}, \frac{5}{627}, -\frac{2}{627}, -\frac{70}{627})$ $+\frac{13}{627}\sqrt{4182e^5} \otimes e_9$	{123469, 124679, 13578, 158, 2357, 25, 34689, 46789}
9421:53	$0, 0, 0, 0, 0, \frac{61}{11889}\sqrt{1054e^{12}}, \frac{61}{11889}\sqrt{714e^{34}}, \frac{61}{11889}\sqrt{3406e^{16}},$ $\frac{122}{11889}\sqrt{1326e^{18}} + \frac{61}{11889}\sqrt{3466e^{37}}$	$(\frac{427}{3963}, -\frac{2440}{11889}, \frac{1708}{11889}, -\frac{671}{3963}, \frac{1708}{3963}, -\frac{1159}{11889}, -\frac{305}{11889}, \frac{122}{11889}, \frac{1403}{11889})$ $+\frac{122}{11889}\sqrt{2019e^1} \otimes e_2 + \frac{61}{11889}\sqrt{8106e^5} \otimes e_9 + \frac{61}{3963}\sqrt{606e^3} \otimes e_4$	{13578, 2357}
9421:53	$0, 0, 0, 0, 0, \frac{6}{1871}\sqrt{12617e^{12}}, \frac{12}{1871}\sqrt{3219e^{34}}, \frac{6}{1871}\sqrt{2849e^{16}},$ $\frac{6}{1871}\sqrt{1295e^{18}} + \frac{36}{1871}\sqrt{629e^{37}}$	$(-\frac{222}{1871}, \frac{717}{1871}, \frac{84}{1871}, -\frac{117}{1871}, -\frac{582}{1871}, \frac{495}{1871}, -\frac{33}{1871}, \frac{273}{1871}, \frac{51}{1871})$ $+\frac{6}{1871}\sqrt{30081e^3} \otimes e_5 + \frac{6}{1871}\sqrt{30599e^2} \otimes e_9$	{12378, 1258, 13469, 145679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:53	$0, 0, 0, 0, 0, \frac{16}{1747} \sqrt{2415e^{12}}, \frac{24}{1747} \sqrt{966e^{34}}, \frac{2}{1747} \sqrt{38157e^{16}},$ $\frac{8}{1747} \sqrt{4830e^{18}} + \frac{16}{1747} \sqrt{2415e^{37}}$	$(-\frac{322}{1747}, \frac{800}{1747}, -\frac{371}{1747}, \frac{576}{1747}, -\frac{390}{1747}, \frac{478}{1747}, \frac{205}{1747}, \frac{156}{1747}, -\frac{166}{1747})$ $+\frac{2}{1747} \sqrt{426489e^2} \otimes e_9 + \frac{6}{1747} \sqrt{33649e^4} \otimes e_5$	{123578, 1258, 13469, 14679}
9421:53	$0, 0, 0, 0, 0, \frac{2}{5625} \sqrt{514183e^{12}}, \frac{4}{5625} \sqrt{60843e^{34}}, \frac{2}{5625} \sqrt{1315879e^{16}},$ $\frac{2}{5625} \sqrt{2272665e^{18}} + \frac{2}{5625} \sqrt{406813e^{37}}$	$(\frac{244}{1875}, -\frac{1654}{5625}, \frac{67}{5625}, \frac{136}{1875}, \frac{976}{1875}, -\frac{922}{5625}, \frac{19}{225}, -\frac{38}{1125}, \frac{542}{5625})$ $+\frac{2}{5625} \sqrt{3217521e^1} \otimes e_2 + \frac{4}{5625} \sqrt{690747e^5} \otimes e_9$	{13578, 158, 2357, 25}
9421:53	$0, 0, 0, 0, 0, \frac{2}{209} \sqrt{1586e^{12}}, \frac{1}{627} \sqrt{331474e^{34}}, \frac{2}{627} \sqrt{16653e^{16}},$ $\frac{2}{209} \sqrt{793e^{18}} + \frac{2}{209} \sqrt{1586e^{37}}$	$(\frac{10}{209}, \frac{30}{209}, -\frac{119}{627}, \frac{2}{3}, -\frac{125}{209}, \frac{40}{627}, \frac{299}{209}, \frac{50}{209}, \frac{60}{209})$ $+\frac{1}{627} \sqrt{794586e^4} \otimes e_5$	{123578, 1258, 13469, 14679, 234689, 246789, 357, 5}
9421:53	$0, 0, 0, 0, 0, \frac{2}{2011} \sqrt{174777e^{12}}, \frac{8}{2011} \sqrt{2235e^{34}}, \frac{8}{2011} \sqrt{2235e^{16}},$ $\frac{2}{2011} \sqrt{29949e^{18}} + \frac{36}{2011} \sqrt{894e^{37}}$	$(-\frac{298}{2011}, \frac{849}{2011}, \frac{283}{2011}, -\frac{611}{2011}, \frac{240}{2011}, \frac{551}{2011}, -\frac{328}{2011}, \frac{253}{2011}, -\frac{45}{2011})$ $+\frac{20}{2011} \sqrt{4470e^2} \otimes e_9 + \frac{6}{2011} \sqrt{38293e^3} \otimes e_4$	{123578, 12378, 145679, 14679}
9421:53	$0, 0, 0, 0, 0, \frac{2}{217} \sqrt{6045e^{12}}, \frac{2}{217} \sqrt{1365e^{34}}, \frac{2}{217} \sqrt{1365e^{16}},$ $\frac{1}{217} \sqrt{12090e^{18}} + \frac{2}{217} \sqrt{6045e^{37}}$	$(-\frac{65}{217}, \frac{5}{7}, -\frac{34}{217}, \frac{4}{31}, \frac{6}{31}, \frac{90}{217}, -\frac{6}{217}, \frac{25}{217}, -\frac{40}{217})$ $+\frac{5}{217} \sqrt{2730e^2} \otimes e_9$	{123578, 12378, 1258, 128, 134569, 13469, 145679, 14679}
9421:53	$0, 0, 0, 0, 0, \frac{6}{1675} \sqrt{3353e^{12}}, \frac{2}{1675} \sqrt{131246e^{34}}, \frac{2}{1675} \sqrt{169087e^{16}},$ $\frac{2}{1675} \sqrt{189205e^{18}} + \frac{6}{1675} \sqrt{3353e^{37}}$	$(\frac{374}{1675}, -\frac{584}{1675}, -\frac{1}{335}, \frac{548}{1675}, -\frac{82}{335}, -\frac{42}{335}, \frac{543}{1675}, \frac{164}{1675}, \frac{538}{1675})$ $+\frac{2}{1675} \sqrt{408587e^1} \otimes e_2 + \frac{4}{1675} \sqrt{73766e^4} \otimes e_5$	{1348, 1478, 234, 247}
9421:53	$0, 0, 0, 0, 0, \frac{1}{1989} \sqrt{14938e^{12}}, \frac{5}{1989} \sqrt{32010e^{34}}, \frac{4}{1989} \sqrt{50149e^{16}},$ $\frac{1}{1989} \sqrt{608190e^{18}} + \frac{4}{1989} \sqrt{37345e^{37}}$	$(\frac{158}{663}, -\frac{593}{1989}, \frac{470}{1989}, -\frac{37}{663}, -\frac{199}{663}, -\frac{7}{117}, \frac{359}{1989}, \frac{355}{1989}, \frac{829}{1989})$ $+\frac{1}{1989} \sqrt{1837374e^3} \otimes e_5 + \frac{8}{663} \sqrt{3201e^1} \otimes e_2$	{1378, 158, 237, 25}
9421:53	$0, 0, 0, 0, 0, \frac{2}{309} \sqrt{5597e^{12}}, \frac{4}{309} \sqrt{965e^{34}}, \frac{4}{309} \sqrt{965e^{16}},$ $\frac{2}{103} \sqrt{579e^{18}} + \frac{4}{309} \sqrt{1351e^{37}}$	$(\frac{38}{309}, \frac{31}{309}, \frac{59}{103}, -\frac{209}{309}, \frac{20}{103}, \frac{23}{103}, -\frac{32}{309}, \frac{107}{309}, \frac{145}{309})$ $+\frac{2}{309} \sqrt{48057e^3} \otimes e_4$	{1245789, 124789, 13567, 1367, 235678, 23678, 4579, 479}
9421:53	$0, 0, 0, 0, 0, \frac{1}{639} \sqrt{69974e^{12}}, \frac{1}{639} \sqrt{252618e^{34}}, \frac{4}{639} \sqrt{2965e^{16}},$ $\frac{1}{639} \sqrt{67602e^{18}} + \frac{4}{639} \sqrt{17197e^{37}}$	$(\frac{26}{213}, \frac{61}{639}, \frac{194}{639}, -\frac{31}{213}, -\frac{133}{639}, \frac{139}{639}, \frac{101}{639}, \frac{217}{639}, \frac{295}{639})$ $+\frac{1}{639} \sqrt{615534e^3} \otimes e_5$	{123489, 1245789, 1367, 156, 23678, 2568, 349, 4579}
9421:54	$0, 0, 0, 0, 0, -\frac{26}{205} \sqrt{6e^{12}}, \frac{13}{205} \sqrt{166e^{13}} + \frac{52}{205} \sqrt{13e^{24}}, \frac{13}{205} \sqrt{134e^{16}},$ $\frac{26}{205} \sqrt{23e^{18}} + \frac{13}{205} \sqrt{174e^{26}} + \frac{13}{41} \sqrt{6e^{34}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{39}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205} \sqrt{87e^4} \otimes e_5$	{1235679, 12469, 234, 257, 1235679, 12469, 234, 257}
9421:54	$0, 0, 0, 0, 0, \frac{26}{205} \sqrt{6e^{12}}, \frac{13}{205} \sqrt{166e^{13}} + \frac{52}{205} \sqrt{13e^{24}}, \frac{13}{205} \sqrt{134e^{16}},$ $\frac{26}{205} \sqrt{23e^{18}} + \frac{13}{205} \sqrt{174e^{26}} + \frac{13}{41} \sqrt{6e^{34}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{39}{205}, \frac{26}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{52}{205}, \frac{52}{205}, \frac{13}{41})$ $+\frac{26}{205} \sqrt{87e^4} \otimes e_5$	{1235679, 12469, 234, 257, 1235679, 12469, 234, 257}
9421:54	$0, 0, 0, 0, 0, -\frac{1}{29} \sqrt{87e^{12}}, \frac{1}{29} \sqrt{145e^{13}} + \frac{1}{29} \sqrt{145e^{24}}, \frac{1}{29} \sqrt{29e^{16}},$ $\frac{1}{29} \sqrt{319e^{18}} + \frac{1}{29} \sqrt{87e^{26}} + \frac{1}{29} \sqrt{435e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{4}{29} \sqrt{87e^5} \otimes e_9$	{13679, 1469, 345, 57, 13679, 1469, 345, 57}
9421:54	$0, 0, 0, 0, 0, \frac{1}{29} \sqrt{87e^{12}}, \frac{1}{29} \sqrt{145e^{13}} + \frac{1}{29} \sqrt{145e^{24}}, \frac{1}{29} \sqrt{29e^{16}},$ $\frac{1}{29} \sqrt{319e^{18}} + \frac{1}{29} \sqrt{87e^{26}} + \frac{1}{29} \sqrt{435e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{4}{29} \sqrt{87e^5} \otimes e_9$	{13679, 1469, 345, 57, 13679, 1469, 345, 57}
9421:55	$0, 0, 0, 0, 0, \frac{156}{601} \sqrt{5e^{12}}, \frac{91}{601} \sqrt{13e^{13}} + \frac{26}{601} \sqrt{215e^{24}}, \frac{26}{601} \sqrt{155e^{16}},$ $\frac{91}{601} \sqrt{15e^{18}} + \frac{52}{601} \sqrt{79e^{26}} + \frac{65}{601} \sqrt{15e^{35}}$	$(\frac{39}{1202}, \frac{39}{601}, -\frac{221}{1202}, -\frac{130}{601}, \frac{208}{601}, \frac{117}{1202}, -\frac{91}{601}, \frac{78}{601}, \frac{195}{1202})$ $+\frac{39}{601} \sqrt{129e^2} \otimes e_4$	{1345689, 458}
9421:55	$0, 0, 0, 0, 0, \frac{96}{1523} \sqrt{30e^{12}}, \frac{128}{1523} \sqrt{57e^{13}} + \frac{32}{1523} \sqrt{1091e^{24}},$ $\frac{288}{1523} \sqrt{7e^{16}}, \frac{64}{1523} \sqrt{213e^{18}} + \frac{64}{1523} \sqrt{142e^{26}} + \frac{32}{1523} \sqrt{717e^{35}}$	$(-\frac{16}{1523}, -\frac{32}{1523}, \frac{416}{1523}, \frac{432}{1523}, -\frac{496}{1523}, -\frac{48}{1523}, \frac{400}{1523}, -\frac{64}{1523}, -\frac{80}{1523})$ $+\frac{32}{1523} \sqrt{1302e^4} \otimes e_9$	{123679, 2345}
9421:56	$0, 0, 0, 0, 0, \frac{1}{7} \sqrt{21e^{12}}, \frac{1}{7} \sqrt{35e^{14}} + \frac{1}{7} \sqrt{70e^{23}}, \frac{2}{7} \sqrt{7e^{16}},$ $\frac{1}{7} \sqrt{42e^{18}} + \frac{1}{7} \sqrt{35e^{26}} + \frac{1}{7} \sqrt{21e^{35}}$	$(0, 0, \frac{1}{2}, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0, 0)$ $+\frac{2}{7} \sqrt{21e^3} \otimes e_5$	{234, 257}
9421:56	$0, 0, 0, 0, 0, \frac{46}{3157} \sqrt{249e^{12}}, \frac{23}{3157} \sqrt{4190e^{14}} + \frac{23}{3157} \sqrt{2806e^{23}},$ $\frac{288}{3157} \sqrt{1165e^{16}}, \frac{46}{3157} \sqrt{4710e^{18}} + \frac{46}{3157} \sqrt{869e^{26}} + \frac{23}{3157} \sqrt{1146e^{35}}$	$(\frac{69}{3157}, \frac{138}{3157}, -\frac{529}{3157}, -\frac{460}{3157}, \frac{874}{3157}, \frac{207}{3157}, -\frac{391}{3157}, \frac{276}{3157}, \frac{345}{3157})$ $+\frac{92}{3157} \sqrt{357e^1} \otimes e_4$	{1238, 2345689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:56	$0, 0, 0, 0, 0, \frac{124}{3109}\sqrt{30e^{12}}, \frac{217}{3109}\sqrt{94e^{14}} + \frac{31}{3109}\sqrt{3658e^{23}},$ $\frac{62}{3109}\sqrt{659e^{16}}, \frac{31}{3109}\sqrt{1786e^{18}} + \frac{248}{3109}\sqrt{61e^{26}} + \frac{31}{3109}\sqrt{2586e^{35}}$	$(-\frac{31}{3109}, -\frac{62}{3109}, \frac{837}{3109}, \frac{806}{3109}, -\frac{992}{3109}, -\frac{93}{3109}, \frac{775}{3109}, -\frac{124}{3109}, -\frac{155}{3109})$ $+ \frac{372}{3109}\sqrt{39e^4} \otimes e_9$	{156789, 478}
9421:56	$0, 0, 0, 0, 0, \frac{26}{205}\sqrt{6e^{12}}, \frac{13}{205}\sqrt{166e^{14}} + \frac{13}{205}\sqrt{42e^{23}}, \frac{52}{205}\sqrt{2e^{16}},$ $\frac{13}{205}\sqrt{74e^{18}} + \frac{26}{205}\sqrt{2e^{26}} + \frac{13}{41}\sqrt{6e^{35}}$	$(\frac{13}{205}, \frac{26}{205}, -\frac{13}{41}, -\frac{52}{205}, \frac{26}{41}, \frac{39}{205}, -\frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^5} \otimes e_7$	{2358, 2478}
9421:57	$0, 0, 0, 0, 0, \frac{18}{217}\sqrt{73e^{12}}, \frac{54}{217}\sqrt{3e^{13}}, \frac{18}{217}\sqrt{22e^{16}},$ $\frac{90}{217}e^{18} + \frac{72}{217}\sqrt{3e^{37}} + \frac{72}{217}\sqrt{3e^{45}}$	$(-\frac{54}{217}, \frac{144}{217}, \frac{18}{217}, -\frac{9}{217}, -\frac{9}{217}, \frac{90}{217}, -\frac{36}{217}, \frac{36}{217}, -\frac{18}{217})$ $+ \frac{18}{217}\sqrt{178e^2} \otimes e_9$	{1234578, 12378, 12458, 128}
9421:57	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{7429e^{12}}, \frac{1}{203}\sqrt{3553e^{13}}, \frac{2}{203}\sqrt{1938e^{16}},$ $\frac{1}{203}\sqrt{969e^{18}} + \frac{2}{203}\sqrt{1615e^{37}} + \frac{2}{203}\sqrt{1615e^{45}}$	$(\frac{11}{203}, \frac{30}{203}, \frac{26}{203}, \frac{193}{203}, -\frac{130}{203}, \frac{41}{203}, \frac{37}{203}, \frac{52}{203}, \frac{9}{29})$ $+ \frac{323}{203}e^4 \otimes e_5$	{13469, 13569, 14679, 15679}
9421:57	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{95e^{12}}, \frac{1}{31}\sqrt{133e^{13}}, \frac{2}{31}\sqrt{57e^{16}},$ $\frac{1}{31}\sqrt{285e^{18}} + \frac{1}{31}\sqrt{38e^{37}} + \frac{1}{31}\sqrt{38e^{45}}$	$(\frac{7}{31}, -\frac{12}{31}, \frac{1}{31}, \frac{14}{31}, -\frac{5}{31}, -\frac{5}{31}, \frac{8}{31}, \frac{2}{31}, \frac{9}{31})$ $+ \frac{19}{31}e^4 \otimes e_5 + \frac{6}{31}\sqrt{19e^1} \otimes e_2$	{1348, 1358, 1478, 1578}
9421:57	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{95e^{12}}, \frac{1}{31}\sqrt{133e^{13}}, \frac{2}{31}\sqrt{57e^{16}},$ $\frac{1}{31}\sqrt{285e^{18}} + \frac{1}{31}\sqrt{38e^{37}} + \frac{1}{31}\sqrt{38e^{45}}$	$(\frac{7}{31}, -\frac{12}{31}, \frac{1}{31}, \frac{14}{31}, -\frac{5}{31}, -\frac{5}{31}, \frac{8}{31}, \frac{2}{31}, \frac{9}{31})$ $- \frac{19}{31}e^4 \otimes e_5 + \frac{6}{31}\sqrt{19e^1} \otimes e_2$	{1348, 1358, 1478, 1578}
9421:57	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{95e^{12}}, \frac{2}{43}\sqrt{133e^{13}}, \frac{4}{43}\sqrt{57e^{16}},$ $\frac{2}{43}\sqrt{285e^{18}} + \frac{2}{43}\sqrt{38e^{37}} + \frac{2}{43}\sqrt{38e^{45}}$	$(\frac{14}{43}, -\frac{24}{43}, \frac{2}{43}, \frac{9}{43}, \frac{9}{43}, -\frac{10}{43}, \frac{16}{43}, \frac{4}{43}, \frac{18}{43})$ $+ \frac{12}{43}\sqrt{19e^1} \otimes e_2$	{1348, 1478}
9421:58	$0, 0, 0, 0, 0, \frac{2}{983}\sqrt{32718e^{12}}, \frac{6}{983}\sqrt{4674e^{13}}, \frac{4}{983}\sqrt{13243e^{26}},$ $\frac{4}{983}\sqrt{4674e^{28}} + \frac{6}{983}\sqrt{3895e^{37}} + \frac{4}{983}\sqrt{3895e^{45}}$	$(\frac{108}{983}, \frac{70}{983}, \frac{105}{983}, \frac{938}{983}, -\frac{620}{983}, \frac{178}{983}, \frac{213}{983}, \frac{248}{983}, \frac{318}{983})$ $+ \frac{1558}{983}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
9421:66	$0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{1378806e^{12}}, \frac{5}{1483}\sqrt{3214e^{13}}, \frac{1}{1483}\sqrt{305330e^{16}},$ $\frac{3}{1483}\sqrt{67494e^{18}} + \frac{2}{1483}\sqrt{329435e^{24}} + \frac{1}{1483}\sqrt{41782e^{37}}$	$(-\frac{50}{1483}, \frac{644}{1483}, \frac{272}{1483}, -\frac{150}{1483}, -\frac{963}{1483}, \frac{594}{1483}, \frac{222}{1483}, \frac{544}{1483}, \frac{494}{1483})$ $+ \frac{1}{1483}\sqrt{3930722e^2} \otimes e_5$	{13567, 156, 3459, 4579}
9421:66	$0, 0, 0, 0, 0, \frac{4}{2921}\sqrt{542694e^{12}}, \frac{2}{2921}\sqrt{478002e^{13}}, \frac{2}{2921}\sqrt{470814e^{16}},$ $\frac{4}{2921}\sqrt{68286e^{18}} + \frac{6}{2921}\sqrt{56905e^{24}} + \frac{2}{2921}\sqrt{573243e^{37}}$	$(-\frac{532}{2921}, \frac{1998}{2921}, \frac{467}{2921}, -\frac{1596}{2921}, \frac{520}{2921}, \frac{1466}{2921}, -\frac{65}{2921}, \frac{934}{2921}, \frac{402}{2921})$ $+ \frac{98}{2921}\sqrt{1797e^2} \otimes e_4$	{134567, 13467, 1456, 146}
9421:66	$0, 0, 0, 0, 0, \frac{29}{2185}\sqrt{1478e^{12}}, \frac{29}{2185}\sqrt{87e^{13}}, \frac{29}{2185}\sqrt{959e^{16}},$ $\frac{29}{2185}\sqrt{614e^{18}} + \frac{29}{2185}\sqrt{591e^{24}} + \frac{58}{2185}\sqrt{37e^{37}}$	$(-\frac{87}{2185}, \frac{116}{2185}, \frac{203}{2185}, -\frac{261}{2185}, -\frac{928}{2185}, \frac{493}{2185}, \frac{116}{2185}, \frac{406}{2185}, \frac{319}{2185})$ $+ \frac{29}{2185}\sqrt{2323e^1} \otimes e_5 + \frac{58}{2185}\sqrt{395e^2} \otimes e_4$	{12378, 128}
9421:66	$0, 0, 0, 0, 0, \frac{61}{6725}\sqrt{1994e^{12}}, \frac{122}{6725}\sqrt{805e^{13}}, \frac{183}{6725}\sqrt{66e^{16}},$ $\frac{122}{6725}\sqrt{582e^{18}} + \frac{61}{6725}\sqrt{718e^{24}} + \frac{61}{6725}\sqrt{3926e^{37}}$	$(-\frac{427}{6725}, \frac{488}{6725}, \frac{793}{6725}, -\frac{1281}{6725}, -\frac{2928}{6725}, \frac{2013}{6725}, \frac{366}{6725}, \frac{1586}{6725}, \frac{1159}{6725})$ $+ \frac{61}{6725}\sqrt{4718e^2} \otimes e_4 + \frac{61}{6725}\sqrt{7294e^3} \otimes e_5$	{3478, 458}
9421:66	$0, 0, 0, 0, 0, \frac{17}{445}\sqrt{114e^{12}}, \frac{17}{445}\sqrt{51e^{13}}, \frac{17}{890}\sqrt{214e^{16}},$ $\frac{17}{445}\sqrt{95e^{18}} + \frac{17}{890}\sqrt{278e^{24}} + \frac{17}{890}\sqrt{506e^{37}}$	$(-\frac{51}{445}, \frac{136}{445}, \frac{17}{445}, -\frac{153}{445}, \frac{272}{445}, \frac{17}{89}, -\frac{34}{445}, \frac{34}{445}, -\frac{17}{445})$ $+ \frac{17}{445}\sqrt{346e^2} \otimes e_4 + \frac{17}{890}\sqrt{1738e^5} \otimes e_9$	{23689, 26789}
9421:66	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{1615e^{12}}, \frac{1}{189}\sqrt{570e^{13}}, \frac{1}{189}\sqrt{4465e^{16}},$ $\frac{1}{189}\sqrt{16530e^{18}} + \frac{19}{63}\sqrt{5e^{24}} + \frac{1}{189}\sqrt{13015e^{37}}$	$(-\frac{1}{63}, \frac{8}{189}, \frac{1}{189}, -\frac{1}{21}, 1, \frac{5}{189}, -\frac{2}{189}, \frac{2}{189}, -\frac{1}{189})$ $+ \frac{1}{63}\sqrt{6555e^9} \otimes e_9$	{13578, 158, 34689, 46789}
9421:66	$0, 0, 0, 0, 0, \frac{2}{2889}\sqrt{81271e^{12}}, \frac{2}{2889}\sqrt{1579326e^{13}}, \frac{2}{2889}\sqrt{351770e^{16}},$ $\frac{4}{2889}\sqrt{200145e^{18}} + \frac{2}{963}\sqrt{1213e^{24}} + \frac{2}{2889}\sqrt{1438618e^{37}}$	$(\frac{49}{963}, \frac{508}{2889}, \frac{401}{2889}, \frac{49}{321}, -\frac{75}{107}, \frac{655}{2889}, \frac{548}{2889}, \frac{802}{2889}, \frac{949}{2889})$ $+ \frac{2}{963}\sqrt{331149e^3} \otimes e_5$	{1234689, 12456789, 2378, 258}
9421:66	$0, 0, 0, 0, 0, \frac{8}{361}\sqrt{451e^{12}}, \frac{6}{361}\sqrt{902e^{13}}, \frac{3}{361}\sqrt{902e^{16}},$ $\frac{22}{361}\sqrt{41e^{18}} + \frac{1}{361}\sqrt{130790e^{24}} + \frac{2}{361}\sqrt{4510e^{37}}$	$(\frac{72}{361}, -\frac{50}{361}, \frac{47}{361}, \frac{216}{361}, -\frac{235}{361}, \frac{22}{361}, \frac{119}{361}, \frac{94}{361}, \frac{166}{361})$ $+ \frac{2}{361}\sqrt{67199e^4} \otimes e_5$	{12346, 12467, 23579, 259}
9421:66	$0, 0, 0, 0, 0, \frac{4}{385}\sqrt{3783e^{12}}, \frac{1}{385}\sqrt{11058e^{13}}, \frac{2}{385}\sqrt{17751e^{16}},$ $\frac{6}{385}\sqrt{1649e^{18}} + \frac{12}{385}\sqrt{194e^{24}} + \frac{2}{385}\sqrt{582e^{37}}$	$(\frac{38}{385}, \frac{2}{77}, \frac{43}{385}, \frac{114}{385}, -\frac{23}{35}, \frac{48}{385}, \frac{81}{385}, \frac{86}{385}, \frac{124}{385})$ $+ \frac{1}{385}\sqrt{185658e^1} \otimes e_5$	{1369, 1679, 3457, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:67	$0, 0, 0, 0, 0, \frac{10}{433}\sqrt{870}e^{12}, \frac{1}{433}\sqrt{68730}e^{13}, \frac{2}{433}\sqrt{5655}e^{26},$ $\frac{24}{433}\sqrt{145}e^{14} + \frac{6}{433}\sqrt{1015}e^{28} + \frac{4}{433}\sqrt{435}e^{37}$	$(\frac{158}{433}, -\frac{6}{433}, -\frac{9}{433}, -\frac{18}{433}, -\frac{277}{433}, \frac{152}{433}, \frac{149}{433}, \frac{146}{433}, \frac{140}{433})$ $+\frac{5}{433}\sqrt{12354}e^1 \otimes e_5$	{12389, 12789, 23567, 256}
9421:67	$0, 0, 0, 0, 0, \frac{38}{3449}\sqrt{5210}e^{12}, \frac{38}{3449}\sqrt{4990}e^{13}, \frac{152}{3449}\sqrt{65}e^{26},$ $\frac{38}{3449}\sqrt{2935}e^{14} + \frac{76}{3449}\sqrt{110}e^{28} + \frac{38}{3449}\sqrt{2165}e^{37}$	$(\frac{1996}{3449}, -\frac{538}{3449}, -\frac{807}{3449}, -\frac{1614}{3449}, \frac{624}{3449}, \frac{1458}{3449}, \frac{1189}{3449}, \frac{920}{3449}, \frac{382}{3449})$ $+\frac{190}{3449}\sqrt{565}e^1 \otimes e_4$	{234567, 23467, 2456, 246}
9421:67	$0, 0, 0, 0, 0, \frac{116}{4761}\sqrt{357}e^{12}, \frac{116}{4761}\sqrt{145}e^{13}, \frac{116}{529}\sqrt{3}e^{26},$ $\frac{58}{4761}\sqrt{793}e^{14} + \frac{58}{4761}\sqrt{690}e^{28} + \frac{58}{4761}\sqrt{211}e^{37}$	$(\frac{1160}{4761}, -\frac{58}{4761}, -\frac{29}{529}, -\frac{58}{529}, -\frac{1856}{4761}, \frac{986}{4761}, \frac{899}{4761}, \frac{812}{4761}, \frac{638}{4761})$ $+\frac{58}{4761}\sqrt{205}e^1 \otimes e_4 + \frac{58}{4761}\sqrt{2386}e^2 \otimes e_5$	{3457, 45}
9421:67	$0, 0, 0, 0, 0, \frac{2}{685}\sqrt{1465}e^{12}, \frac{2}{685}\sqrt{81454}e^{13}, \frac{2}{685}\sqrt{11134}e^{26},$ $\frac{24}{685}\sqrt{293}e^{14} + \frac{2}{685}\sqrt{1465}e^{28} + \frac{2}{685}\sqrt{81454}e^{37}$	$(-\frac{3}{137}, \frac{86}{685}, \frac{129}{685}, \frac{258}{685}, -\frac{457}{685}, \frac{71}{685}, \frac{114}{685}, \frac{157}{685}, \frac{243}{685})$ $+\frac{2}{685}\sqrt{167303}e^3 \otimes e_5$	{1349, 14579, 34678, 4568}
9421:67	$0, 0, 0, 0, 0, \frac{1}{117}\sqrt{5874}e^{12}, \frac{1}{117}\sqrt{178}e^{13}, \frac{1}{117}\sqrt{6942}e^{26},$ $\frac{4}{117}\sqrt{178}e^{14} + \frac{1}{117}\sqrt{5874}e^{28} + \frac{1}{117}\sqrt{178}e^{37}$	$(\frac{2}{117}, \frac{4}{39}, \frac{2}{13}, \frac{4}{13}, -\frac{77}{117}, \frac{14}{117}, \frac{20}{117}, \frac{2}{9}, \frac{38}{117})$ $+\frac{1}{117}\sqrt{17266}e^2 \otimes e_5$	{1345689, 1456789, 3457, 45}
9421:67	$0, 0, 0, 0, 0, \frac{6}{433}\sqrt{1015}e^{12}, \frac{4}{433}\sqrt{435}e^{13}, \frac{2}{433}\sqrt{5655}e^{26},$ $\frac{24}{433}\sqrt{145}e^{14} + \frac{10}{433}\sqrt{870}e^{28} + \frac{1}{433}\sqrt{68730}e^{37}$	$(\frac{16}{433}, -\frac{6}{433}, -\frac{9}{433}, -\frac{18}{433}, \frac{1}{433}, \frac{10}{433}, \frac{7}{433}, \frac{4}{433}, -\frac{2}{433})$ $+\frac{5}{433}\sqrt{12354}e^5 \otimes e_9$	{12369, 12679, 23578, 258}
9421:67	$0, 0, 0, 0, 0, \frac{68}{945}\sqrt{22}e^{12}, \frac{68}{945}\sqrt{34}e^{13}, \frac{34}{945}\sqrt{41}e^{26},$ $\frac{68}{945}\sqrt{7}e^{14} + \frac{136}{945}\sqrt{6}e^{28} + \frac{68}{945}\sqrt{35}e^{37}$	$(\frac{272}{945}, -\frac{34}{315}, -\frac{17}{105}, -\frac{34}{105}, \frac{544}{945}, \frac{34}{189}, \frac{17}{135}, \frac{68}{945}, -\frac{34}{945})$ $+\frac{34}{945}\sqrt{401}e^1 \otimes e_4 + \frac{34}{945}\sqrt{421}e^5 \otimes e_9$	{13689, 16789}
9421:67	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{2849}e^{12}, \frac{1}{323}\sqrt{17094}e^{13}, \frac{6}{323}\sqrt{407}e^{26},$ $\frac{1}{323}\sqrt{106634}e^{14} + \frac{2}{323}\sqrt{2849}e^{28} + \frac{1}{323}\sqrt{17094}e^{37}$	$(-\frac{42}{323}, \frac{64}{323}, \frac{96}{323}, \frac{192}{323}, -\frac{215}{323}, \frac{22}{323}, \frac{54}{323}, \frac{86}{323}, \frac{150}{323})$ $+\frac{1}{323}\sqrt{218966}e^4 \otimes e_5$	{13579, 159, 3568, 5678}
9421:67	$0, 0, 0, 0, 0, \frac{59}{10365}\sqrt{2758}e^{12}, \frac{118}{10365}\sqrt{1865}e^{13}, \frac{413}{10365}\sqrt{14}e^{26},$ $\frac{118}{10365}\sqrt{1102}e^{14} + \frac{59}{10365}\sqrt{678}e^{28} + \frac{59}{3455}\sqrt{638}e^{37}$	$(\frac{2419}{10365}, -\frac{118}{3455}, -\frac{177}{3455}, -\frac{354}{3455}, -\frac{4012}{10365}, \frac{413}{10365}, \frac{1888}{10365}, \frac{1711}{10365}, \frac{1357}{10365})$ $+\frac{4189}{10365}\sqrt{2}e^3 \otimes e_5 + \frac{59}{10365}\sqrt{8590}e^1 \otimes e_4$	{23467, 2456}
9421:68	$0, 0, 0, 0, 0, \frac{1}{90}\sqrt{202}e^{12}, \frac{1}{30}\sqrt{505}e^{13}, \frac{1}{90}\sqrt{1111}e^{26},$ $\frac{1}{90}\sqrt{303}e^{17} + \frac{1}{90}\sqrt{303}e^{28} + \frac{1}{90}\sqrt{4747}e^{34}$	$(-\frac{7}{180}, \frac{3}{20}, \frac{22}{45}, -\frac{7}{90}, -\frac{19}{30}, \frac{1}{9}, \frac{9}{20}, \frac{47}{180}, \frac{37}{90})$ $+\frac{7}{90}\sqrt{303}e^3 \otimes e_5$	{12346, 14579, 24589, 34678}
9421:68	$0, 0, 0, 0, 0, \frac{33}{1885}\sqrt{626}e^{12}, \frac{33}{1885}\sqrt{874}e^{13}, \frac{66}{1885}\sqrt{37}e^{26},$ $\frac{66}{1885}\sqrt{181}e^{17} + \frac{66}{1885}\sqrt{181}e^{28} + \frac{33}{1885}\sqrt{26}e^{34}$	$(-\frac{264}{1885}, \frac{99}{1885}, \frac{561}{1885}, -\frac{528}{1885}, \frac{1122}{1885}, -\frac{33}{377}, \frac{297}{1885}, -\frac{66}{1885}, \frac{33}{1885})$ $+\frac{198}{377}\sqrt{2}e^5 \otimes e_9 + \frac{33}{1885}\sqrt{1526}e^3 \otimes e_4$	{1457, 2458}
9421:68	$0, 0, 0, 0, 0, \frac{2}{2913}\sqrt{1010337}e^{12}, \frac{2}{2913}\sqrt{200751}e^{13}, \frac{2}{2913}\sqrt{1065187}e^{26},$ $\frac{14}{971}\sqrt{1097}e^{17} + \frac{2}{971}\sqrt{94342}e^{28} + \frac{2}{2913}\sqrt{121767}e^{34}$	$(\frac{62}{971}, \frac{247}{2913}, \frac{185}{971}, \frac{124}{971}, -\frac{649}{971}, \frac{433}{2913}, \frac{247}{971}, \frac{680}{2913}, \frac{309}{971})$ $+\frac{6}{971}\sqrt{32910}e^2 \otimes e_5$	{128, 1356789, 2369, 57}
9421:68	$0, 0, 0, 0, 0, \frac{57}{8785}\sqrt{566}e^{12}, \frac{57}{8785}\sqrt{7234}e^{13}, \frac{114}{8785}\sqrt{142}e^{26},$ $\frac{57}{8785}\sqrt{4834}e^{17} + \frac{57}{8785}\sqrt{334}e^{28} + \frac{57}{8785}\sqrt{3566}e^{34}$	$(-\frac{57}{1255}, \frac{684}{8785}, \frac{2451}{8785}, -\frac{114}{1255}, -\frac{3648}{8785}, \frac{57}{1757}, \frac{2052}{8785}, \frac{969}{8785}, \frac{1653}{8785})$ $+\frac{342}{1757}\sqrt{10}e^1 \otimes e_5 + \frac{57}{8785}\sqrt{6866}e^3 \otimes e_4$	{147, 2458}
9421:68	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{602}e^{12}, \frac{1}{18}\sqrt{129}e^{13}, \frac{1}{18}\sqrt{43}e^{26},$ $\frac{1}{12}\sqrt{43}e^{17} + \frac{1}{12}\sqrt{43}e^{28} + \frac{1}{36}\sqrt{1462}e^{34}$	$(\frac{19}{72}, \frac{1}{24}, -\frac{5}{36}, \frac{19}{36}, -\frac{2}{3}, \frac{11}{3}, \frac{1}{8}, \frac{25}{72}, \frac{7}{18})$ $+\frac{1}{18}\sqrt{645}e^4 \otimes e_5$	{1235789, 1568, 2567, 359}
9421:68	$0, 0, 0, 0, 0, \frac{3}{235}\sqrt{2666}e^{12}, \frac{3}{235}\sqrt{6634}e^{13}, \frac{6}{235}\sqrt{217}e^{26},$ $\frac{24}{235}\sqrt{31}e^{17} + \frac{24}{235}\sqrt{31}e^{28} + \frac{3}{235}\sqrt{2666}e^{34}$	$(-\frac{54}{235}, \frac{39}{235}, \frac{171}{235}, -\frac{108}{235}, \frac{42}{235}, -\frac{3}{47}, \frac{117}{235}, \frac{24}{235}, \frac{63}{235})$ $+\frac{3}{235}\sqrt{11966}e^3 \otimes e_4$	{1457, 147, 2458, 248}
9421:68	$0, 0, 0, 0, 0, \frac{2}{2889}\sqrt{374755}e^{12}, \frac{2}{2889}\sqrt{1232715}e^{13}, \frac{2}{2889}\sqrt{194005}e^{26},$ $\frac{4}{2889}\sqrt{321735}e^{17} + \frac{10}{963}\sqrt{723}e^{28} + \frac{2}{2889}\sqrt{591655}e^{34}$	$(\frac{487}{2889}, \frac{146}{2889}, -\frac{49}{2889}, \frac{974}{2889}, -\frac{641}{963}, \frac{211}{963}, \frac{146}{963}, \frac{779}{2889}, \frac{925}{2889})$ $+\frac{2}{2889}\sqrt{2899230}e^1 \otimes e_5$	{123489, 14678, 2456, 34579}
9421:68	$0, 0, 0, 0, 0, \frac{57}{6157}\sqrt{1582}e^{12}, \frac{57}{6157}\sqrt{1546}e^{13}, \frac{114}{6157}\sqrt{691}e^{26},$ $\frac{114}{6157}\sqrt{173}e^{17} + \frac{114}{6157}\sqrt{673}e^{28} + \frac{57}{6157}\sqrt{674}e^{34}$	$(-\frac{456}{6157}, \frac{627}{6157}, \frac{2337}{6157}, -\frac{912}{6157}, -\frac{2622}{6157}, \frac{171}{6157}, \frac{1881}{6157}, \frac{798}{6157}, \frac{1425}{6157})$ $+\frac{57}{6157}\sqrt{4022}e^3 \otimes e_4 + \frac{684}{6157}\sqrt{47}e^2 \otimes e_5$	{1238, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:68	$0, 0, 0, 0, 0, \frac{2}{729}\sqrt{30295}e^{12}, \frac{2}{729}\sqrt{12045}e^{13}, \frac{4}{729}\sqrt{4015}e^{26},$ $\frac{2}{729}\sqrt{63510}e^{17} + \frac{2}{729}\sqrt{63510}e^{28} + \frac{4}{729}\sqrt{10585}e^{34}$	$(\frac{8}{729}, -\frac{1}{243}, -\frac{17}{729}, \frac{16}{729}, 1, \frac{5}{729}, -\frac{1}{81}, \frac{2}{729}, -\frac{1}{729})$ $+ \frac{2}{729}\sqrt{217905}e^5 \otimes e_9$	{12369, 157, 258, 36789}
9421:69	$0, 0, 0, 0, 0, \frac{4}{451}\sqrt{1074}e^{12}, \frac{6}{451}\sqrt{1074}e^{13}, \frac{2}{451}\sqrt{11098}e^{26},$ $\frac{2}{451}\sqrt{5370}e^{17} + \frac{2}{451}\sqrt{5370}e^{28} + \frac{2}{451}\sqrt{7518}e^{45}$	$(\frac{39}{451}, \frac{35}{451}, \frac{6}{41}, \frac{430}{451}, -\frac{26}{41}, \frac{74}{451}, \frac{105}{451}, \frac{109}{451}, \frac{144}{451})$ $+ \frac{716}{451}e^4 \otimes e_5$	{134689, 135689, 234679, 235679}
9421:69	$0, 0, 0, 0, 0, \frac{88}{3587}\sqrt{1086}e^{12}, \frac{88}{3587}\sqrt{157}e^{13}, \frac{88}{3587}\sqrt{205}e^{26},$ $\frac{88}{3587}\sqrt{986}e^{17} + \frac{880}{3587}\sqrt{5}e^{28} + \frac{88}{3587}\sqrt{43}e^{45}$	$(\frac{1672}{3587}, -\frac{176}{3587}, -\frac{2200}{3587}, \frac{572}{3587}, \frac{572}{3587}, \frac{88}{211}, -\frac{528}{3587}, \frac{1320}{3587}, \frac{1144}{3587})$ $+ \frac{176}{3587}\sqrt{743}e^1 \otimes e_3$	{12489, 23456, 236}
9421:69	$0, 0, 0, 0, 0, \frac{88}{5523}\sqrt{1086}e^{12}, \frac{88}{5523}\sqrt{157}e^{13}, \frac{88}{5523}\sqrt{205}e^{26},$ $\frac{88}{5523}\sqrt{986}e^{17} + \frac{880}{5523}\sqrt{5}e^{28} + \frac{88}{5523}\sqrt{43}e^{45}$	$(\frac{1672}{5523}, -\frac{176}{5523}, -\frac{2200}{5523}, \frac{836}{1841}, -\frac{1364}{5523}, \frac{1496}{5523}, -\frac{176}{1841}, \frac{440}{1841}, \frac{1144}{5523})$ $+ \frac{176}{5523}\sqrt{743}e^1 \otimes e_3 + \frac{3872}{5523}e^4 \otimes e_5$	{12489, 12589}
9421:70	$0, 0, 0, 0, 0, \frac{6}{347}\sqrt{1605}e^{12}, \frac{18}{347}\sqrt{10}e^{34}, \frac{3}{347}\sqrt{1290}e^{16},$ $\frac{6}{347}\sqrt{390}e^{18} + \frac{45}{347}\sqrt{22}e^{35} + \frac{9}{347}\sqrt{530}e^{47}$	$(-\frac{90}{347}, \frac{240}{347}, -\frac{12}{347}, -\frac{9}{347}, -\frac{18}{347}, \frac{150}{347}, -\frac{21}{347}, \frac{60}{347}, -\frac{30}{347})$ $+ \frac{15}{347}\sqrt{678}e^2 \otimes e_9$	{1234578, 12358, 14569, 15679}
9421:70	$0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{448630}e^{12}, \frac{20}{3969}\sqrt{35989}e^{34}, \frac{2}{3969}\sqrt{635970}e^{16},$ $\frac{4}{3969}\sqrt{140505}e^{18} + \frac{2}{3969}\sqrt{1013115}e^{35} + \frac{58}{3969}\sqrt{935}e^{47}$	$(\frac{106}{3969}, \frac{592}{3969}, \frac{2920}{3969}, -\frac{335}{1323}, -\frac{670}{3969}, \frac{698}{3969}, \frac{1915}{3969}, \frac{268}{1323}, \frac{130}{567})$ $+ \frac{10}{1323}\sqrt{35003}e^3 \otimes e_5$	{124578, 1258, 457, 5}
9421:70	$0, 0, 0, 0, 0, \frac{18}{305}\sqrt{62}e^{12}, \frac{108}{305}e^{34}, \frac{18}{305}\sqrt{14}e^{16},$ $\frac{36}{305}\sqrt{5}e^{18} + \frac{18}{305}\sqrt{33}e^{35} + \frac{18}{305}\sqrt{51}e^{47}$	$(-\frac{54}{305}, \frac{144}{305}, \frac{72}{305}, -\frac{9}{61}, -\frac{18}{61}, \frac{18}{61}, \frac{27}{305}, \frac{36}{305}, -\frac{18}{305})$ $+ \frac{36}{305}\sqrt{41}e^2 \otimes e_9 + \frac{54}{305}\sqrt{11}e^3 \otimes e_5$	{13469, 13679}
9421:70	$0, 0, 0, 0, 0, \frac{38}{1325}\sqrt{67}e^{12}, \frac{38}{1325}\sqrt{266}e^{34}, \frac{38}{1325}\sqrt{277}e^{16},$ $\frac{38}{1325}\sqrt{355}e^{18} + \frac{38}{265}\sqrt{6}e^{35} + \frac{38}{1325}\sqrt{17}e^{47}$	$(\frac{266}{1325}, -\frac{456}{1325}, \frac{532}{1325}, -\frac{19}{265}, -\frac{38}{265}, -\frac{38}{265}, \frac{437}{1325}, \frac{76}{1325}, \frac{342}{1325})$ $+ \frac{38}{1325}\sqrt{494}e^3 \otimes e_5 + \frac{38}{1325}\sqrt{677}e^1 \otimes e_2$	{1348, 1378, 234, 237}
9421:70	$0, 0, 0, 0, 0, \frac{38}{1325}\sqrt{67}e^{12}, \frac{38}{1325}\sqrt{266}e^{34}, \frac{38}{1325}\sqrt{277}e^{16},$ $\frac{38}{1325}\sqrt{355}e^{18} + \frac{38}{265}\sqrt{6}e^{35} + \frac{38}{1325}\sqrt{17}e^{47}$	$(\frac{266}{1325}, -\frac{456}{1325}, \frac{532}{1325}, -\frac{19}{265}, -\frac{38}{265}, -\frac{38}{265}, \frac{437}{1325}, \frac{76}{1325}, \frac{342}{1325})$ $- \frac{38}{1325}\sqrt{494}e^3 \otimes e_5 + \frac{38}{1325}\sqrt{677}e^1 \otimes e_2$	{1348, 1378, 234, 237}
9421:70	$0, 0, 0, 0, 0, \frac{38}{3921}\sqrt{1545}e^{12}, \frac{38}{1307}\sqrt{190}e^{34}, \frac{38}{3921}\sqrt{6535}e^{16},$ $\frac{38}{1307}\sqrt{885}e^{18} + \frac{380}{1307}\sqrt{2}e^{35} + \frac{38}{1307}\sqrt{105}e^{47}$	$(\frac{1330}{3921}, -\frac{760}{1307}, \frac{228}{1307}, \frac{171}{1307}, \frac{342}{1307}, -\frac{950}{3921}, \frac{399}{1307}, \frac{380}{3921}, \frac{570}{1307})$ $+ \frac{190}{3921}\sqrt{651}e^1 \otimes e_2$	{1348, 1378, 234, 237}
9421:83	$0, 0, 0, 0, 0, \frac{14}{351}\sqrt{379}e^{12}, \frac{1}{351}\sqrt{11370}e^{34}, \frac{2}{351}\sqrt{3790}e^{16},$ $\frac{4}{351}\sqrt{2274}e^{18} + \frac{1}{351}\sqrt{79590}e^{23} + \frac{1}{351}\sqrt{758}e^{47}$	$(-\frac{10}{351}, \frac{148}{351}, -\frac{10}{117}, \frac{74}{351}, -\frac{77}{117}, \frac{46}{117}, \frac{44}{351}, \frac{128}{351}, \frac{118}{351})$ $+ \frac{1}{351}\sqrt{220578}e^2 \otimes e_5$	{12489, 12789, 234678, 2368}
9421:83	$0, 0, 0, 0, 0, \frac{1}{471}\sqrt{96162}e^{12}, \frac{1}{471}\sqrt{38874}e^{34}, \frac{1}{471}\sqrt{107074}e^{16},$ $\frac{1}{157}\sqrt{10230}e^{18} + \frac{1}{471}\sqrt{59334}e^{23} + \frac{2}{471}\sqrt{2046}e^{47}$	$(\frac{38}{471}, \frac{10}{157}, \frac{38}{157}, \frac{5}{157}, -\frac{101}{157}, \frac{68}{471}, \frac{43}{157}, \frac{106}{471}, \frac{48}{157})$ $+ \frac{1}{157}\sqrt{29326}e^1 \otimes e_5$	{12478, 128, 2345689, 2356789}
9421:83	$0, 0, 0, 0, 0, \frac{2}{3681}\sqrt{884399}e^{12}, \frac{2}{3681}\sqrt{2264178}e^{34}, \frac{4}{3681}\sqrt{77221}e^{16},$ $\frac{4}{3681}\sqrt{74307}e^{18} + \frac{2}{1227}\sqrt{158813}e^{23} + \frac{4}{3681}\sqrt{2363254}e^{47}$	$(\frac{7}{1227}, \frac{1010}{3681}, \frac{7}{409}, \frac{505}{3681}, -\frac{803}{1227}, \frac{1031}{3681}, \frac{568}{3681}, \frac{1052}{3681}, \frac{1073}{3681})$ $+ \frac{2}{3681}\sqrt{4436565}e^4 \otimes e_5$	{123489, 1235789, 24678, 2568}
9421:83	$0, 0, 0, 0, 0, \frac{1}{225}\sqrt{9718}e^{12}, \frac{1}{75}\sqrt{226}e^{34}, \frac{1}{225}\sqrt{5989}e^{16},$ $\frac{2}{225}\sqrt{5763}e^{18} + \frac{1}{225}\sqrt{24069}e^{23} + \frac{1}{225}\sqrt{18193}e^{47}$	$(-\frac{1}{75}, \frac{8}{225}, -\frac{1}{25}, \frac{4}{225}, 1, \frac{1}{45}, -\frac{1}{45}, \frac{2}{225}, -\frac{1}{225})$ $+ \frac{1}{225}\sqrt{83733}e^5 \otimes e_9$	{12469, 12679, 23457, 235}
9421:83	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{334}e^{12}, \frac{6}{149}\sqrt{334}e^{34}, \frac{3}{149}\sqrt{334}e^{16},$ $\frac{2}{149}\sqrt{167}e^{18} + \frac{1}{149}\sqrt{13694}e^{23} + \frac{2}{149}\sqrt{334}e^{47}$	$(\frac{24}{149}, -\frac{10}{149}, \frac{72}{149}, -\frac{5}{149}, -\frac{95}{149}, \frac{14}{149}, \frac{67}{149}, \frac{38}{149}, \frac{62}{149})$ $+ \frac{2}{149}\sqrt{10187}e^3 \otimes e_5$	{12346, 12367, 24579, 259}
9421:84	$0, 0, 0, 0, 0, \frac{5}{87}\sqrt{86}e^{12}, \frac{1}{174}\sqrt{4730}e^{34}, \frac{1}{174}\sqrt{4730}e^{16},$ $\frac{1}{58}\sqrt{645}e^{18} + \frac{1}{58}\sqrt{645}e^{25} + \frac{1}{174}\sqrt{28810}e^{37}$	$(\frac{31}{348}, \frac{53}{348}, \frac{16}{29}, -\frac{119}{174}, \frac{31}{116}, \frac{7}{29}, -\frac{23}{174}, \frac{115}{348}, \frac{73}{174})$ $+ \frac{1}{174}\sqrt{60630}e^3 \otimes e_4$	{1245789, 13567, 23678, 479}
9421:84	$0, 0, 0, 0, 0, \frac{1}{174}\sqrt{28810}e^{12}, \frac{1}{174}\sqrt{4730}e^{34}, \frac{1}{174}\sqrt{4730}e^{16},$ $\frac{1}{58}\sqrt{645}e^{18} + \frac{1}{58}\sqrt{645}e^{25} + \frac{5}{87}\sqrt{86}e^{37}$	$(-\frac{21}{116}, \frac{241}{348}, \frac{1}{87}, \frac{11}{87}, -\frac{63}{116}, \frac{89}{174}, \frac{4}{29}, \frac{115}{348}, \frac{13}{87})$ $+ \frac{1}{174}\sqrt{60630}e^2 \otimes e_5$	{13567, 156, 23678, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:84	$0, 0, 0, 0, 0, \frac{3}{212}\sqrt{1590}e^{12}, \frac{3}{53}\sqrt{15}e^{34}, \frac{3}{53}\sqrt{15}e^{16},$ $\frac{3}{212}\sqrt{615}e^{18} + \frac{3}{212}\sqrt{615}e^{25} + \frac{3}{212}\sqrt{1590}e^{37}$	$(-\frac{33}{424}, \frac{171}{424}, \frac{57}{212}, -\frac{39}{106}, -\frac{99}{424}, \frac{69}{212}, -\frac{21}{212}, \frac{105}{424}, \frac{9}{53})$ $+ \frac{3}{106}\sqrt{705}e^2 \otimes e_5 + \frac{3}{106}\sqrt{705}e^3 \otimes e_4$	{13567, 23678}
9421:85	$0, 0, 0, 0, 0, -\frac{1}{231}\sqrt{718}e^{12}, \frac{1}{693}\sqrt{3590}e^{13}, \frac{4}{693}\sqrt{359}e^{16},$ $\frac{2}{693}\sqrt{50619}e^{18} + \frac{1}{231}\sqrt{22258}e^{26} + \frac{5}{693}\sqrt{7898}e^{37}$	$(-\frac{5}{693}, -\frac{10}{693}, -\frac{10}{693}, 1, \frac{125}{693}, -\frac{5}{231}, -\frac{5}{231}, -\frac{20}{693}, -\frac{25}{693})$ $+ \frac{4}{693}\sqrt{50978}e^4 \otimes e_9$	{12345678, 1234678, 124568, 12468, 23589, 2389, 25789, 2789, 12345678, 1234678, 124568, 12468, 23589, 2389, 25789, 2789}
9421:85	$0, 0, 0, 0, 0, \frac{1}{231}\sqrt{718}e^{12}, \frac{1}{693}\sqrt{3590}e^{13}, \frac{4}{693}\sqrt{359}e^{16},$ $\frac{2}{693}\sqrt{50619}e^{18} + \frac{1}{231}\sqrt{22258}e^{26} + \frac{5}{693}\sqrt{7898}e^{37}$	$(-\frac{5}{693}, -\frac{10}{693}, -\frac{10}{693}, 1, \frac{125}{693}, -\frac{5}{231}, -\frac{5}{231}, -\frac{20}{693}, -\frac{25}{693})$ $+ \frac{4}{693}\sqrt{50978}e^4 \otimes e_9$	{12345678, 1234678, 124568, 12468, 23589, 2389, 25789, 2789, 12345678, 1234678, 124568, 12468, 23589, 2389, 25789, 2789}
9421:85	$0, 0, 0, 0, 0, -\frac{1}{28}\sqrt{134}e^{12}, \frac{1}{84}\sqrt{670}e^{13}, \frac{1}{21}\sqrt{67}e^{16},$ $\frac{1}{42}\sqrt{67}e^{18} + \frac{1}{84}\sqrt{670}e^{26} + \frac{1}{28}\sqrt{134}e^{37}$	$(\frac{5}{84}, \frac{5}{42}, \frac{5}{42}, 1, -\frac{25}{42}, \frac{5}{28}, \frac{5}{28}, \frac{5}{21}, \frac{25}{84})$ $+ \frac{67}{42}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 347, 357, 4, 5, 13469, 13569, 14679, 15679, 347, 357, 4, 5}
9421:85	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{134}e^{12}, \frac{1}{84}\sqrt{670}e^{13}, \frac{1}{21}\sqrt{67}e^{16},$ $\frac{1}{42}\sqrt{67}e^{18} + \frac{1}{84}\sqrt{670}e^{26} + \frac{1}{28}\sqrt{134}e^{37}$	$(\frac{5}{84}, \frac{5}{42}, \frac{5}{42}, 1, -\frac{25}{42}, \frac{5}{28}, \frac{5}{28}, \frac{5}{21}, \frac{25}{84})$ $+ \frac{67}{42}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 347, 357, 4, 5, 13469, 13569, 14679, 15679, 347, 357, 4, 5}
9421:85	$0, 0, 0, 0, 0, -\frac{4}{35}\sqrt{13}e^{12}, \frac{4}{105}\sqrt{159}e^{13}, \frac{8}{105}\sqrt{21}e^{16},$ $\frac{12}{35}\sqrt{2}e^{18} + \frac{4}{105}\sqrt{159}e^{26} + \frac{4}{35}\sqrt{13}e^{37}$	$(\frac{2}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{12}{35}, -\frac{12}{35}, \frac{6}{35}, \frac{6}{35}, \frac{8}{35}, \frac{2}{7})$ $+ \frac{4}{105}\sqrt{282}e^2 \otimes e_4 + \frac{4}{105}\sqrt{282}e^3 \otimes e_5$	{134689, 1456789, 3478, 458, 134689, 1456789, 3478, 458}
9421:85	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{13}e^{12}, \frac{4}{105}\sqrt{159}e^{13}, \frac{8}{105}\sqrt{21}e^{16},$ $\frac{12}{35}\sqrt{2}e^{18} + \frac{4}{105}\sqrt{159}e^{26} + \frac{4}{35}\sqrt{13}e^{37}$	$(\frac{2}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{12}{35}, -\frac{12}{35}, \frac{6}{35}, \frac{6}{35}, \frac{8}{35}, \frac{2}{7})$ $+ \frac{4}{105}\sqrt{282}e^2 \otimes e_4 + \frac{4}{105}\sqrt{282}e^3 \otimes e_5$	{134689, 1456789, 3478, 458, 134689, 1456789, 3478, 458}
9421:85	$0, 0, 0, 0, 0, -\frac{27}{1717}\sqrt{731}e^{12}, \frac{81}{1717}\sqrt{3}e^{13}, \frac{27}{1717}\sqrt{298}e^{16},$ $\frac{27}{1717}\sqrt{158}e^{18} + \frac{27}{1717}\sqrt{1223}e^{26} + \frac{27}{1717}\sqrt{221}e^{37}$	$(\frac{27}{1717}, \frac{54}{1717}, \frac{54}{1717}, \frac{864}{1717}, -\frac{675}{1717}, \frac{81}{1717}, \frac{81}{1717}, \frac{108}{1717}, \frac{135}{1717})$ $+ \frac{27}{1717}\sqrt{1706}e^2 \otimes e_5 + \frac{378}{1717}\sqrt{7}e^4 \otimes e_9$	{135689, 156789, 34578, 458, 135689, 156789, 34578, 458}
9421:85	$0, 0, 0, 0, 0, \frac{27}{1717}\sqrt{731}e^{12}, \frac{81}{1717}\sqrt{3}e^{13}, \frac{27}{1717}\sqrt{298}e^{16},$ $\frac{27}{1717}\sqrt{158}e^{18} + \frac{27}{1717}\sqrt{1223}e^{26} + \frac{27}{1717}\sqrt{221}e^{37}$	$(\frac{27}{1717}, \frac{54}{1717}, \frac{54}{1717}, \frac{864}{1717}, -\frac{675}{1717}, \frac{81}{1717}, \frac{81}{1717}, \frac{108}{1717}, \frac{135}{1717})$ $+ \frac{27}{1717}\sqrt{1706}e^2 \otimes e_5 + \frac{378}{1717}\sqrt{7}e^4 \otimes e_9$	{135689, 156789, 34578, 458, 135689, 156789, 34578, 458}
9421:87	$0, 0, 0, 0, 0, \frac{94}{5171}\sqrt{293}e^{12}, \frac{47}{5171}\sqrt{2930}e^{13}, \frac{94}{5171}\sqrt{65}e^{26},$ $\frac{94}{5171}\sqrt{95}e^{16} + \frac{94}{5171}\sqrt{209}e^{28} + \frac{2162}{5171}e^{37}$	$(\frac{564}{5171}, \frac{282}{5171}, \frac{423}{5171}, -\frac{1645}{5171}, -\frac{1786}{5171}, \frac{846}{5171}, \frac{987}{5171}, \frac{1128}{5171}, \frac{1410}{5171})$ $+ \frac{1222}{5171}\sqrt{7}e^3 \otimes e_5 + \frac{235}{5171}\sqrt{178}e^1 \otimes e_4$	{12389, 125789}
9421:87	$0, 0, 0, 0, 0, \frac{2}{1389}\sqrt{4317}e^{12}, \frac{2}{1389}\sqrt{7195}e^{13}, \frac{2}{1389}\sqrt{8634}e^{26},$ $\frac{2}{1389}\sqrt{205777}e^{16} + \frac{2}{1389}\sqrt{200021}e^{28} + \frac{2}{1389}\sqrt{31658}e^{37}$	$(-\frac{20}{1389}, -\frac{10}{1389}, -\frac{463}{1389}, 1, \frac{250}{1389}, -\frac{463}{1389}, -\frac{35}{1389}, -\frac{40}{1389}, -\frac{50}{1389})$ $+ \frac{1}{1389}\sqrt{3278042}e^4 \otimes e_9$	{12345678, 1234678, 124568, 12468}
9421:87	$0, 0, 0, 0, 0, \frac{14}{339}\sqrt{66}e^{12}, \frac{14}{339}\sqrt{110}e^{13}, \frac{28}{339}\sqrt{33}e^{26},$ $\frac{7}{339}\sqrt{55}e^{16} + \frac{7}{113}\sqrt{33}e^{28} + \frac{7}{339}\sqrt{429}e^{37}$	$(\frac{40}{339}, \frac{20}{339}, \frac{10}{113}, 1, -\frac{200}{339}, \frac{20}{113}, \frac{70}{339}, \frac{80}{339}, \frac{100}{339})$ $+ \frac{539}{339}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
9421:87	$0, 0, 0, 0, 0, \frac{106}{6747}\sqrt{309}e^{12}, \frac{106}{6747}\sqrt{905}e^{13}, \frac{106}{2249}\sqrt{26}e^{26},$ $\frac{106}{6747}\sqrt{323}e^{16} + \frac{106}{6747}\sqrt{401}e^{28} + \frac{53}{519}\sqrt{26}e^{37}$	$(\frac{212}{6747}, \frac{106}{6747}, \frac{53}{2249}, \frac{1113}{2249}, -\frac{2650}{6747}, \frac{106}{6747}, \frac{371}{6747}, \frac{424}{6747}, \frac{530}{6747})$ $+ \frac{212}{6747}\sqrt{426}e^3 \otimes e_5 + \frac{53}{6747}\sqrt{5162}e^4 \otimes e_9$	{12369, 125679}
9421:87	$0, 0, 0, 0, 0, \frac{5}{197}\sqrt{42}e^{12}, \frac{10}{197}\sqrt{78}e^{13}, \frac{20}{197}\sqrt{21}e^{26},$ $\frac{5}{197}\sqrt{330}e^{16} + \frac{20}{197}\sqrt{15}e^{28} + \frac{5}{197}\sqrt{246}e^{37}$	$(\frac{20}{197}, \frac{10}{197}, \frac{15}{197}, -\frac{65}{197}, -\frac{60}{197}, \frac{30}{197}, \frac{35}{197}, \frac{40}{197}, \frac{50}{197})$ $+ \frac{30}{197}\sqrt{14}e^3 \otimes e_5 + \frac{5}{197}\sqrt{534}e^2 \otimes e_4$	{134689, 1456789}
9421:87	$0, 0, 0, 0, 0, \frac{10}{1343}\sqrt{11373}e^{12}, \frac{2}{1343}\sqrt{51290}e^{13}, \frac{3}{1343}\sqrt{28990}e^{26},$ $\frac{1}{1343}\sqrt{1242110}e^{16} + \frac{3}{1343}\sqrt{69130}e^{28} + \frac{3}{1343}\sqrt{3345}e^{37}$	$(\frac{184}{1343}, \frac{92}{1343}, \frac{138}{1343}, -\frac{931}{1343}, \frac{206}{1343}, \frac{276}{1343}, \frac{322}{1343}, \frac{368}{1343}, \frac{460}{1343})$ $+ \frac{1}{1343}\sqrt{2535510}e^1 \otimes e_4$	{23456789, 2346789, 245689, 24689}
9421:87	$0, 0, 0, 0, 0, \frac{108}{3437}\sqrt{179}e^{12}, \frac{162}{3437}\sqrt{6}e^{13}, \frac{54}{3437}\sqrt{277}e^{26},$ $\frac{54}{3437}\sqrt{1190}e^{16} + \frac{54}{3437}\sqrt{134}e^{28} + \frac{216}{3437}\sqrt{14}e^{37}$	$(\frac{108}{3437}, \frac{54}{3437}, \frac{81}{3437}, \frac{1728}{3437}, -\frac{1350}{3437}, \frac{162}{3437}, \frac{27}{3437}, \frac{216}{3437}, \frac{270}{3437})$ $+ \frac{1998}{3437}e^4 \otimes e_9 + \frac{54}{3437}\sqrt{1709}e^1 \otimes e_5$	{34578, 458}
9421:87	$0, 0, 0, 0, 0, \frac{8}{31}\sqrt{3}e^{12}, \frac{12}{31}\sqrt{5}e^{13}, \frac{4}{31}\sqrt{15}e^{26},$ $\frac{4}{31}\sqrt{30}e^{16} + \frac{4}{31}\sqrt{6}e^{28} + \frac{4}{31}\sqrt{39}e^{37}$	$(\frac{4}{31}, \frac{2}{31}, \frac{3}{31}, -\frac{21}{31}, \frac{5}{31}, \frac{6}{31}, \frac{7}{31}, \frac{8}{31}, \frac{10}{31})$ $+ \frac{4}{31}\sqrt{78}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9421:87	$0, 0, 0, 0, 0, \frac{1}{1417}\sqrt{587202}e^{12}, \frac{2}{1417}\sqrt{43989}e^{13}, \frac{2}{1417}\sqrt{293601}e^{26},$ $\frac{1}{1417}\sqrt{624030}e^{16} + \frac{2}{1417}\sqrt{240405}e^{28} + \frac{2}{1417}\sqrt{2046}e^{37}$	$(\frac{172}{1417}, \frac{86}{1417}, \frac{129}{1417}, -\frac{937}{1417}, \frac{240}{1417}, \frac{258}{1417}, \frac{301}{1417}, \frac{344}{1417}, \frac{430}{1417})$ $+ \frac{11}{1417}\sqrt{19902}e^2 \otimes e_4$	{1345689, 134689, 1456789, 146789}
9421:87	$0, 0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{46}{2629}\sqrt{439}e^{26},$ $\frac{46}{2629}\sqrt{221}e^{16} + \frac{644}{2629}e^{28} + \frac{276}{2629}e^{37}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{782}{2629}, -\frac{920}{2629}, \frac{414}{2629}, \frac{483}{2629}, \frac{552}{2629}, \frac{690}{2629})$ $+ \frac{46}{2629}\sqrt{1091}e^1 \otimes e_4 + \frac{46}{2629}\sqrt{1229}e^2 \otimes e_5$	{234679, 2469}
9421:87	$0, 0, 0, 0, 0, \frac{52}{3311}\sqrt{371}e^{12}, \frac{104}{3311}\sqrt{13}e^{13}, \frac{52}{3311}\sqrt{742}e^{26},$ $\frac{416}{3311}\sqrt{2}e^{16} + \frac{52}{3311}\sqrt{933}e^{28} + \frac{52}{3311}\sqrt{269}e^{37}$	$(\frac{104}{3311}, \frac{52}{3311}, \frac{78}{3311}, \frac{1612}{3311}, -\frac{1300}{3311}, \frac{156}{3311}, \frac{26}{3311}, \frac{208}{3311}, \frac{260}{3311})$ $+ \frac{52}{3311}\sqrt{1213}e^4 \otimes e_9 + \frac{52}{3311}\sqrt{1699}e^2 \otimes e_5$	{135689, 156789}
9421:102	$0, 0, 0, 0, 0, \frac{16}{101}\sqrt{5}e^{12}, \frac{4}{303}\sqrt{230}e^{34}, \frac{16}{303}\sqrt{5}e^{16},$ $\frac{20}{101}\sqrt{2}e^{18} + \frac{20}{101}\sqrt{2}e^{26} + \frac{8}{303}\sqrt{430}e^{37}$	$(\frac{4}{303}, \frac{8}{303}, \frac{20}{101}, -\frac{100}{303}, \frac{60}{101}, \frac{4}{101}, -\frac{40}{303}, \frac{16}{303}, \frac{20}{303})$ $+ \frac{4}{303}\sqrt{2910}e^5 \otimes e_9 + \frac{8}{303}\sqrt{615}e^3 \otimes e_4$	{14679, 357}
9421:102	$0, 0, 0, 0, 0, \frac{2}{507}\sqrt{21170}e^{12}, \frac{1}{507}\sqrt{21170}e^{34}, \frac{20}{507}\sqrt{365}e^{16},$ $\frac{1}{507}\sqrt{116070}e^{18} + \frac{1}{507}\sqrt{67890}e^{26} + \frac{1}{507}\sqrt{5110}e^{37}$	$(\frac{32}{507}, \frac{64}{507}, \frac{17}{169}, \frac{58}{507}, -\frac{111}{169}, \frac{32}{109}, \frac{109}{128}, \frac{160}{507}, \frac{160}{507})$ $+ \frac{10}{507}\sqrt{3066}e^1 \otimes e_5$	{12378, 128, 2345689, 2456789}
9421:102	$0, 0, 0, 0, 0, \frac{2}{813}\sqrt{25737}e^{12}, \frac{2}{813}\sqrt{101083}e^{34}, \frac{2}{813}\sqrt{25737}e^{16},$ $\frac{2}{813}\sqrt{21261}e^{18} + \frac{2}{813}\sqrt{21261}e^{26} + \frac{2}{813}\sqrt{115257}e^{37}$	$(\frac{23}{271}, \frac{46}{271}, \frac{233}{813}, -\frac{121}{813}, -\frac{171}{271}, \frac{69}{271}, \frac{112}{813}, \frac{92}{271}, \frac{115}{271})$ $+ \frac{2}{813}\sqrt{247299}e^3 \otimes e_5$	{1367, 156, 349, 4579}
9421:102	$0, 0, 0, 0, 0, \frac{284}{9079}\sqrt{318}e^{12}, \frac{71}{9079}\sqrt{690}e^{34}, \frac{142}{9079}\sqrt{210}e^{16},$ $\frac{71}{9079}\sqrt{3314}e^{18} + \frac{213}{9079}\sqrt{510}e^{26} + \frac{71}{9079}\sqrt{2334}e^{37}$	$(\frac{568}{9079}, \frac{1136}{9079}, \frac{2627}{9079}, -\frac{2414}{9079}, -\frac{3905}{9079}, \frac{1704}{9079}, \frac{213}{9079}, \frac{2272}{9079}, \frac{2840}{9079})$ $+ \frac{142}{9079}\sqrt{2470}e^2 \otimes e_5 + \frac{568}{9079}\sqrt{97}e^3 \otimes e_4$	{1456789, 3578}
9421:102	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{381}e^{12}, \frac{2}{201}\sqrt{8509}e^{34}, \frac{4}{201}\sqrt{381}e^{16},$ $\frac{1}{67}\sqrt{254}e^{18} + \frac{1}{67}\sqrt{254}e^{26} + \frac{1}{201}\sqrt{5334}e^{37}$	$(\frac{4}{67}, \frac{8}{67}, -\frac{37}{201}, \frac{2}{3}, -\frac{40}{67}, \frac{12}{67}, \frac{97}{201}, \frac{16}{67}, \frac{20}{67})$ $+ \frac{1}{201}\sqrt{81534}e^4 \otimes e_5$	{13469, 14679, 357, 5}
9421:102	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{8279}e^{12}, \frac{5}{393}\sqrt{974}e^{34}, \frac{2}{393}\sqrt{8279}e^{16},$ $\frac{1}{131}\sqrt{2922}e^{18} + \frac{1}{131}\sqrt{2922}e^{26} + \frac{1}{393}\sqrt{145126}e^{37}$	$(\frac{34}{393}, \frac{68}{393}, \frac{73}{131}, -\frac{268}{393}, \frac{25}{131}, \frac{34}{393}, -\frac{49}{393}, \frac{136}{393}, \frac{170}{393})$ $+ \frac{2}{393}\sqrt{77433}e^3 \otimes e_4$	{13567, 1367, 4579, 479}
9421:102	$0, 0, 0, 0, 0, \frac{170}{591}\sqrt{2}e^{12}, \frac{85}{591}\sqrt{2}e^{34}, \frac{34}{591}\sqrt{83}e^{16},$ $\frac{17}{591}\sqrt{210}e^{18} + \frac{17}{591}\sqrt{186}e^{26} + \frac{17}{591}\sqrt{166}e^{37}$	$(\frac{34}{591}, \frac{68}{591}, \frac{51}{197}, -\frac{136}{591}, -\frac{85}{197}, \frac{34}{197}, \frac{17}{591}, \frac{136}{591}, \frac{170}{591})$ $+ \frac{34}{591}\sqrt{165}e^1 \otimes e_5 + \frac{34}{591}\sqrt{93}e^3 \otimes e_4$	{12378, 2456789}
9421:102	$0, 0, 0, 0, 0, \frac{28}{1917}\sqrt{3190}e^{12}, \frac{11}{639}\sqrt{290}e^{34}, \frac{2}{1917}\sqrt{149930}e^{16},$ $\frac{145}{1917}\sqrt{66}e^{18} + \frac{1}{1917}\sqrt{2746590}e^{26} + \frac{2}{1917}\sqrt{137170}e^{37}$	$(\frac{136}{1917}, \frac{272}{1917}, \frac{241}{1917}, \frac{22}{213}, -\frac{49}{71}, \frac{136}{639}, \frac{439}{1917}, \frac{544}{1917}, \frac{680}{1917})$ $+ \frac{10}{213}\sqrt{638}e^2 \otimes e_5$	{1356789, 15689, 3458, 4578}
9421:102	$0, 0, 0, 0, 0, \frac{2}{201}\sqrt{103}e^{12}, \frac{5}{201}\sqrt{206}e^{34}, \frac{2}{201}\sqrt{103}e^{16},$ $\frac{3}{67}\sqrt{206}e^{18} + \frac{3}{67}\sqrt{206}e^{26} + \frac{2}{401}\sqrt{1030}e^{37}$	$(-\frac{1}{201}, -\frac{2}{201}, -\frac{5}{67}, \frac{25}{201}, 1, -\frac{1}{67}, \frac{10}{201}, -\frac{4}{201}, -\frac{5}{201})$ $+ \frac{1}{201}\sqrt{67362}e^5 \otimes e_9$	{1235678, 12568, 23489, 24789}
9421:104	$0, 0, 0, 0, 0, -\frac{25}{393}\sqrt{5}e^{12}, \frac{125}{393}e^{13}, \frac{50}{393}\sqrt{10}e^{16},$ $\frac{25}{393}e^{18} + \frac{100}{393}e^{26} + \frac{50}{131}e^{37} + \frac{50}{131}e^{45}$	$(\frac{25}{393}, \frac{50}{393}, \frac{50}{393}, \frac{125}{131}, -\frac{250}{393}, \frac{25}{131}, \frac{25}{131}, \frac{100}{393}, \frac{125}{393})$ $+ \frac{625}{393}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 13469, 13569, 14679, 15679}
9421:104	$0, 0, 0, 0, 0, \frac{25}{393}\sqrt{5}e^{12}, \frac{125}{393}e^{13}, \frac{50}{131}\sqrt{10}e^{16},$ $\frac{25}{393}e^{18} + \frac{100}{393}e^{26} + \frac{50}{131}e^{37} + \frac{50}{131}e^{45}$	$(\frac{25}{393}, \frac{50}{393}, \frac{50}{393}, \frac{125}{131}, -\frac{250}{393}, \frac{25}{131}, \frac{25}{131}, \frac{100}{393}, \frac{125}{393})$ $+ \frac{625}{393}e^4 \otimes e_5$	{13469, 13569, 14679, 15679, 13469, 13569, 14679, 15679}
9421:106	$0, 0, 0, 0, 0, \frac{50}{789}\sqrt{30}e^{12}, \frac{250}{789}\sqrt{2}e^{13}, \frac{100}{789}\sqrt{15}e^{26},$ $\frac{200}{789}e^{16} + \frac{100}{789}\sqrt{6}e^{28} + \frac{50}{789}\sqrt{39}e^{37} + \frac{50}{789}\sqrt{39}e^{45}$	$(\frac{100}{789}, \frac{50}{789}, \frac{25}{263}, \frac{250}{263}, -\frac{500}{789}, \frac{50}{263}, \frac{175}{789}, \frac{200}{789}, \frac{250}{789})$ $+ \frac{1250}{789}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
9421:106	$0, 0, 0, 0, 0, \frac{50}{789}\sqrt{30}e^{12}, \frac{250}{789}\sqrt{2}e^{13}, \frac{100}{789}\sqrt{15}e^{26},$ $\frac{200}{789}e^{16} + \frac{100}{789}\sqrt{6}e^{28} + \frac{50}{789}\sqrt{39}e^{37} + \frac{50}{789}\sqrt{39}e^{45}$	$(\frac{100}{789}, \frac{50}{789}, \frac{25}{263}, \frac{250}{263}, -\frac{500}{789}, \frac{50}{263}, \frac{175}{789}, \frac{200}{789}, \frac{250}{789})$ $- \frac{1250}{789}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
9421:114	$0, 0, 0, 0, 0, \frac{25}{101}\sqrt{2}e^{12}, \frac{25}{101}\sqrt{15}e^{34}, \frac{25}{101}\sqrt{2}e^{16},$ $\frac{5}{202}\sqrt{190}e^{18} + \frac{5}{202}\sqrt{190}e^{26} + \frac{5}{101}\sqrt{115}e^{35} + \frac{5}{202}\sqrt{290}e^{47}$	$(\frac{5}{101}, \frac{10}{101}, \frac{75}{101}, -\frac{25}{101}, -\frac{50}{101}, \frac{15}{101}, \frac{50}{101}, \frac{20}{101}, \frac{25}{101})$ $+ \frac{25}{202}\sqrt{130}e^3 \otimes e_5$	{457, 5}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:1	$0, 0, 0, 0, 0, \frac{1}{496}\sqrt{27390}e^{12}, \frac{1}{248}\sqrt{25647}e^{13}, \frac{1}{496}\sqrt{33366}e^{16}, \frac{3}{248}\sqrt{498}e^{26}$	$(-\frac{43}{496}, \frac{15}{124}, \frac{125}{992}, \frac{537}{992}, -\frac{373}{992}, \frac{17}{496}, \frac{39}{992}, -\frac{13}{248}, \frac{77}{496})$ $+\frac{1}{496}\sqrt{113295}e^3 \otimes e_5 + \frac{1}{496}\sqrt{113295}e^4 \otimes e_7$	{123468, 125678, 134, 157, 23789, 24589, 3679, 4569}
942:1	$0, 0, 0, 0, 0, \frac{6}{55}\sqrt{13}e^{12}, \frac{3}{55}\sqrt{34}e^{13}, \frac{3}{55}\sqrt{86}e^{16}, \frac{3}{55}\sqrt{23}e^{26}$	$(\frac{9}{110}, -\frac{3}{55}, -\frac{27}{110}, \frac{24}{55}, \frac{3}{110}, -\frac{9}{55}, \frac{6}{55}, -\frac{3}{110})$ $+\frac{3}{55}\sqrt{105}e^1 \otimes e_3 + \frac{3}{55}\sqrt{19}e^4 \otimes e_7 + \frac{3}{55}\sqrt{79}e^5 \otimes e_8$	{1248, 1456, 234689, 3459}
942:1	$0, 0, 0, 0, 0, \frac{3}{1517}\sqrt{6162}e^{12}, \frac{3}{1517}\sqrt{59566}e^{13}, \frac{4}{1517}\sqrt{17459}e^{16}, \frac{1}{1517}\sqrt{458042}e^{26}$	$(-\frac{190}{1517}, -\frac{16}{1517}, \frac{631}{1517}, \frac{805}{1517}, \frac{180}{1517}, -\frac{206}{1517}, \frac{441}{1517}, -\frac{396}{1517}, -\frac{6}{41})$ $+\frac{25}{1517}\sqrt{2054}e^4 \otimes e_9 + \frac{4}{1517}\sqrt{91403}e^3 \otimes e_8$	{123456, 12346, 14578, 1478, 23579, 2379, 5689, 689}
942:1	$0, 0, 0, 0, 0, \frac{3}{277}\sqrt{1398}e^{12}, \frac{1}{277}\sqrt{57318}e^{13}, \frac{1}{277}\sqrt{30290}e^{16}, \frac{2}{277}\sqrt{13281}e^{26}$	$(\frac{11}{277}, -\frac{45}{277}, \frac{154}{277}, \frac{42}{277}, \frac{42}{277}, -\frac{34}{277}, \frac{165}{277}, -\frac{23}{277}, -\frac{79}{277})$ $+\frac{1}{277}\sqrt{109510}e^3 \otimes e_9$	{1234568, 123468, 12368, 13, 134, 1345, 24589, 2489, 289, 4569, 469, 69}
942:1	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{9389}e^{12}, \frac{1}{353}\sqrt{2290}e^{13}, \frac{1}{353}\sqrt{39846}e^{16}, \frac{1}{353}\sqrt{6870}e^{26}$	$(\frac{77}{353}, -\frac{25}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{42}{353}, \frac{52}{353}, -\frac{75}{353}, \frac{129}{353}, \frac{27}{353})$ $+\frac{1}{353}\sqrt{91142}e^1 \otimes e_3 + \frac{4}{353}\sqrt{3206}e^4 \otimes e_7$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:1	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1455}e^{12}, \frac{4}{293}\sqrt{582}e^{13}, \frac{3}{293}\sqrt{582}e^{16}, \frac{1}{293}\sqrt{18430}e^{26}$	$(-\frac{24}{293}, \frac{13}{293}, \frac{99}{293}, -\frac{84}{293}, \frac{62}{293}, -\frac{11}{293}, \frac{75}{293}, -\frac{35}{293}, \frac{293}{293})$ $+\frac{1}{293}\sqrt{21534}e^2 \otimes e_4 + \frac{1}{293}\sqrt{6790}e^5 \otimes e_8 + \frac{4}{293}\sqrt{1455}e^3 \otimes e_9$	{12579, 146789, 23567, 3478}
942:1	$0, 0, 0, 0, 0, \frac{1}{1821}\sqrt{301070}e^{12}, \frac{1}{1821}\sqrt{486710}e^{13}, \frac{4}{1821}\sqrt{23205}e^{16}, \frac{1}{607}\sqrt{94010}e^{26}$	$(-\frac{166}{1821}, \frac{68}{607}, -\frac{75}{607}, \frac{279}{607}, \frac{184}{1821}, \frac{38}{1821}, -\frac{391}{1821}, -\frac{128}{1821}, \frac{242}{1821})$ $+\frac{1}{1821}\sqrt{777070}e^4 \otimes e_9 + \frac{4}{1821}\sqrt{73185}e^2 \otimes e_7$	{12359, 1239, 156789, 16789, 2456, 246, 34578, 3478}
942:1	$0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1749}e^{12}, \frac{4}{581}\sqrt{9805}e^{13}, \frac{212}{581}\sqrt{2}e^{16}, \frac{4}{581}\sqrt{12137}e^{26}$	$(-\frac{115}{581}, \frac{220}{581}, -\frac{89}{581}, \frac{96}{581}, \frac{96}{581}, \frac{15}{581}, -\frac{204}{581}, -\frac{10}{581}, \frac{325}{581})$ $+\frac{4}{581}\sqrt{25705}e^2 \otimes e_7$	{123459, 12349, 1239, 1456789, 146789, 16789, 2456, 246, 26, 34578, 3478, 378}
942:1	$0, 0, 0, 0, 0, \frac{6}{205}\sqrt{17}e^{12}, \frac{3}{205}\sqrt{986}e^{13}, \frac{3}{205}\sqrt{986}e^{16}, \frac{6}{205}\sqrt{17}e^{26}$	$(-\frac{33}{205}, \frac{27}{205}, -\frac{6}{205}, \frac{114}{205}, \frac{114}{205}, -\frac{6}{205}, -\frac{39}{205}, -\frac{39}{205}, \frac{21}{205})$ $+\frac{3}{205}\sqrt{3094}e^4 \otimes e_7 + \frac{3}{205}\sqrt{3094}e^5 \otimes e_8$	{1234569, 125679, 13489, 1789, 2357, 245, 3678, 468}
942:1	$0, 0, 0, 0, 0, \frac{3}{1313}\sqrt{11414}e^{12}, \frac{1}{1313}\sqrt{346810}e^{13}, \frac{1}{1313}\sqrt{122042}e^{16}, \frac{1}{1313}\sqrt{259010}e^{26}$	$(-\frac{250}{1313}, \frac{334}{1313}, \frac{145}{1313}, -\frac{294}{1313}, \frac{21}{101}, \frac{84}{1313}, -\frac{105}{1313}, -\frac{166}{1313}, \frac{418}{1313})$ $+\frac{10}{1313}\sqrt{1317}e^5 \otimes e_8 + \frac{1}{1313}\sqrt{366126}e^3 \otimes e_4 + \frac{1}{1313}\sqrt{546994}e^2 \otimes e_7$	{12359, 146789, 2456, 378}
942:1	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109}e^{12}, \frac{1}{109}\sqrt{370}e^{13}, \frac{1}{109}\sqrt{703}e^{16}, \frac{1}{109}\sqrt{1073}e^{26}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, -\frac{8}{109}, \frac{29}{109}, \frac{15}{109}, -\frac{27}{109}, \frac{20}{109}, \frac{25}{109})$ $+\frac{1}{109}\sqrt{3145}e^2 \otimes e_7 + \frac{37}{109}e^5 \otimes e_4 + \frac{5}{109}\sqrt{111}e^1 \otimes e_3$	{14679, 15679, 347, 357}
942:1	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{2}{181}\sqrt{370}e^{13}, \frac{2}{181}\sqrt{703}e^{16}, \frac{2}{181}\sqrt{1073}e^{26}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, -\frac{54}{181}, \frac{40}{181}, \frac{50}{181})$ $+\frac{10}{181}\sqrt{111}e^1 \otimes e_3 + \frac{2}{181}\sqrt{3145}e^2 \otimes e_7$	{145679, 14679, 1679, 3457, 347, 37}
942:1	$0, 0, 0, 0, 0, \frac{2}{1897}\sqrt{82041}e^{12}, \frac{1}{1897}\sqrt{489578}e^{13}, \frac{10}{1897}\sqrt{7337}e^{16}, \frac{4}{1897}\sqrt{10005}e^{26}$	$(-\frac{58}{1897}, \frac{64}{1897}, \frac{615}{1897}, -\frac{725}{1897}, \frac{190}{1897}, \frac{6}{1897}, \frac{557}{1897}, -\frac{52}{1897}, \frac{10}{271})$ $+\frac{12}{1897}\sqrt{7337}e^3 \otimes e_8 + \frac{1}{1897}\sqrt{1220610}e^1 \otimes e_4$	{12578, 1278, 1356, 136, 245689, 24689, 34579, 3479}
942:1	$0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470}e^{12}, \frac{12}{551}\sqrt{2082}e^{13}, \frac{2}{551}\sqrt{19779}e^{16}, \frac{2}{551}\sqrt{17697}e^{26}$	$(-\frac{23}{551}, \frac{85}{551}, -\frac{120}{551}, 1, \frac{96}{551}, \frac{62}{551}, -\frac{143}{551}, \frac{39}{551}, \frac{147}{551})$ $+\frac{2}{551}\sqrt{157885}e^4 \otimes e_7$	{1234568, 123468, 125678, 12678, 134, 1345, 157, 17, 235789, 23789, 24589, 2489, 35679, 3679, 4569, 469}
942:1	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{22}e^{12}, \frac{2}{23}\sqrt{11}e^{13}, \frac{2}{23}\sqrt{11}e^{16}, \frac{4}{23}\sqrt{22}e^{26}$	$(-\frac{2}{23}, \frac{7}{23}, \frac{5}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{5}{23}, \frac{3}{23}, \frac{3}{23}, \frac{12}{23})$ $+\frac{2}{23}\sqrt{209}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 13456789, 1346789, 145689, 14689, 2356, 236, 2567, 267, 3458, 348, 4578, 478}
942:1	$0, 0, 0, 0, 0, \frac{8}{793}\sqrt{1749}e^{12}, \frac{4}{793}\sqrt{9805}e^{13}, \frac{212}{793}\sqrt{2}e^{16}, \frac{4}{793}\sqrt{12137}e^{26}$	$(-\frac{115}{793}, \frac{220}{793}, -\frac{89}{793}, \frac{308}{793}, -\frac{116}{793}, \frac{105}{793}, -\frac{204}{793}, -\frac{10}{793}, \frac{25}{61})$ $+\frac{424}{793}e^4 \otimes e_5 + \frac{4}{793}\sqrt{25705}e^2 \otimes e_7$	{12349, 12359, 146789, 156789, 246, 256, 3478, 3578}
942:1	$0, 0, 0, 0, 0, \frac{16}{2119}\sqrt{102}e^{12}, \frac{48}{2119}\sqrt{113}e^{13}, \frac{32}{2119}\sqrt{183}e^{16}, \frac{16}{2119}\sqrt{1051}e^{26}$	$(-\frac{213}{2119}, \frac{170}{2119}, \frac{255}{2119}, \frac{174}{2119}, -\frac{128}{2119}, -\frac{43}{2119}, \frac{42}{2119}, -\frac{256}{2119}, \frac{127}{2119})$ $+\frac{16}{2119}\sqrt{1149}e^2 \otimes e_7 + \frac{16}{2119}\sqrt{302}e^5 \otimes e_8 + \frac{48}{2119}\sqrt{122}e^3 \otimes e_9$	{1456789, 156789, 34578, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:1	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{858}e^{12}, \frac{2}{127}\sqrt{429}e^{13}, \frac{2}{127}\sqrt{429}e^{16}, \frac{2}{127}\sqrt{858}e^{26}$	$(-\frac{28}{127}, \frac{33}{127}, \frac{55}{127}, -\frac{45}{127}, \frac{16}{127}, \frac{5}{127}, \frac{27}{127}, -\frac{23}{127}, \frac{38}{127})$ $+\frac{10}{127}\sqrt{78}e^3 \otimes e_8 + \frac{2}{127}\sqrt{2379}e^2 \otimes e_4$	{125789, 12789, 134569, 13469, 2568, 268, 3457, 347}
942:1	$0, 0, 0, 0, 0, \frac{2}{487}\sqrt{2895}e^{12}, \frac{1}{487}\sqrt{49794}e^{13}, \frac{4}{487}\sqrt{193}e^{16}, \frac{1}{487}\sqrt{19686}e^{26}$	$(-\frac{68}{487}, \frac{18}{487}, \frac{75}{487}, \frac{200}{487}, \frac{161}{487}, -\frac{50}{487}, \frac{7}{487}, -\frac{118}{487}, -\frac{32}{487})$ $+\frac{1}{487}\sqrt{62146}e^4 \otimes e_7 + \frac{1}{487}\sqrt{63690}e^3 \otimes e_8 + \frac{2}{487}\sqrt{11773}e^5 \otimes e_9$	{123456, 1578, 2379, 4689}
942:1	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{6634}e^{12}, \frac{1}{303}\sqrt{13910}e^{13}, \frac{1}{303}\sqrt{10914}e^{16}, \frac{2}{303}\sqrt{6313}e^{26}$	$(-\frac{5}{101}, \frac{3}{101}, \frac{110}{303}, -\frac{98}{303}, \frac{10}{101}, -\frac{2}{101}, \frac{95}{303}, -\frac{7}{101}, \frac{1}{101})$ $+\frac{16}{303}\sqrt{107}e^2 \otimes e_4 + \frac{1}{303}\sqrt{31030}e^3 \otimes e_9$	{12579, 1279, 1456789, 146789, 23567, 2367, 34578, 3478}
942:1	$0, 0, 0, 0, 0, \frac{1}{293}\sqrt{18430}e^{12}, \frac{3}{293}\sqrt{582}e^{13}, \frac{4}{293}\sqrt{582}e^{16}, \frac{2}{293}\sqrt{1455}e^{26}$	$(\frac{31}{293}, \frac{13}{293}, -\frac{66}{293}, -\frac{84}{293}, \frac{62}{293}, \frac{44}{293}, -\frac{35}{293}, \frac{75}{293}, \frac{57}{293})$ $+\frac{1}{293}\sqrt{21534}e^2 \otimes e_4 + \frac{1}{293}\sqrt{6790}e^5 \otimes e_7 + \frac{4}{293}\sqrt{1455}e^1 \otimes e_3$	{12589, 14569, 23568, 345}
942:1	$0, 0, 0, 0, 0, \frac{2}{381}\sqrt{2555}e^{12}, \frac{2}{381}\sqrt{2765}e^{13}, \frac{4}{381}\sqrt{105}e^{16}, \frac{8}{381}\sqrt{210}e^{26}$	$(-\frac{1}{381}, \frac{8}{127}, -\frac{15}{127}, -\frac{71}{381}, \frac{39}{127}, \frac{23}{381}, -\frac{46}{381}, \frac{22}{381}, \frac{47}{381})$ $+\frac{2}{381}\sqrt{2905}e^3 \otimes e_9 + \frac{2}{381}\sqrt{5565}e^2 \otimes e_7 + \frac{70}{381}\sqrt{3}e^1 \otimes e_4$	{1239, 16789, 2456, 34578}
942:1	$0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{271830}e^{12}, \frac{1}{1819}\sqrt{995070}e^{13}, \frac{3}{1819}\sqrt{52890}e^{16}, \frac{6}{1819}\sqrt{17015}e^{26}$	$(-\frac{55}{1819}, -\frac{131}{1819}, \frac{298}{1819}, \frac{858}{1819}, \frac{146}{1819}, -\frac{186}{1819}, \frac{243}{1819}, \frac{241}{1819}, -\frac{317}{1819})$ $+\frac{31}{1819}\sqrt{1230}e^3 \otimes e_9 + \frac{4}{1819}\sqrt{54735}e^4 \otimes e_7$	{1234568, 123468, 134, 1345, 24589, 2489, 4569, 469}
942:1	$0, 0, 0, 0, 0, \frac{1}{1425}\sqrt{434654}e^{12}, \frac{2}{1425}\sqrt{66143}e^{13}, \frac{2}{475}\sqrt{9449}e^{16}, \frac{1}{1425}\sqrt{283470}e^{26}$	$(\frac{308}{1425}, -\frac{79}{475}, \frac{9}{475}, \frac{231}{475}, -\frac{29}{75}, \frac{71}{1425}, \frac{67}{285}, \frac{379}{1425}, -\frac{166}{1425})$ $+\frac{2}{1425}\sqrt{314394}e^1 \otimes e_5 + \frac{32}{1425}\sqrt{859}e^4 \otimes e_9$	{12389, 12789, 1369, 1679, 2345678, 24568, 3457, 45}
942:1	$0, 0, 0, 0, 0, \frac{1}{337}\sqrt{6690}e^{12}, \frac{9}{337}\sqrt{446}e^{13}, \frac{4}{337}\sqrt{1115}e^{16}, \frac{5}{337}\sqrt{1338}e^{26}$	$(\frac{10}{337}, -\frac{24}{337}, \frac{107}{337}, \frac{185}{337}, -\frac{116}{337}, -\frac{14}{337}, \frac{117}{337}, -\frac{4}{337}, -\frac{38}{337})$ $+\frac{1}{337}\sqrt{66454}e^4 \otimes e_9 + \frac{4}{337}\sqrt{4237}e^3 \otimes e_5$	{123468, 1245678, 134, 1457, 23789, 2589, 3679, 569}
942:1	$0, 0, 0, 0, 0, \frac{30}{2809}\sqrt{897}e^{12}, \frac{10}{2809}\sqrt{5837}e^{13}, \frac{20}{2809}\sqrt{1118}e^{16}, \frac{260}{2809}\sqrt{6}e^{26}$	$(-\frac{118}{2809}, \frac{347}{2809}, -\frac{185}{2809}, -\frac{768}{2809}, \frac{761}{2809}, \frac{229}{2809}, \frac{303}{2809}, \frac{111}{2809}, \frac{576}{2809})$ $+\frac{10}{2809}\sqrt{6461}e^5 \otimes e_8 + \frac{20}{2809}\sqrt{3302}e^2 \otimes e_7 + \frac{20}{2809}\sqrt{3354}e^1 \otimes e_4$	{12389, 15679, 2468, 3457}
942:1	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{39846}e^{13}, \frac{1}{353}\sqrt{2290}e^{16}, \frac{2}{353}\sqrt{9389}e^{26}$	$(-\frac{25}{353}, -\frac{25}{353}, \frac{154}{353}, \frac{154}{353}, \frac{42}{353}, -\frac{50}{353}, \frac{129}{353}, -\frac{75}{353}, -\frac{75}{353})$ $+\frac{1}{353}\sqrt{91142}e^3 \otimes e_9 + \frac{4}{353}\sqrt{3206}e^4 \otimes e_8$	{123568, 12368, 134, 1345, 2589, 289, 4569, 469}
942:1	$0, 0, 0, 0, 0, \frac{1}{786}\sqrt{92734}e^{12}, \frac{1}{262}\sqrt{3781}e^{13}, \frac{2}{393}\sqrt{2189}e^{16}, \frac{1}{393}\sqrt{14527}e^{26}$	$(\frac{89}{786}, -\frac{17}{524}, -\frac{55}{393}, -\frac{449}{1572}, \frac{79}{262}, \frac{127}{1572}, -\frac{7}{262}, \frac{305}{1572}, \frac{19}{393})$ $+\frac{17}{786}\sqrt{398}e^2 \otimes e_4 + \frac{1}{393}\sqrt{25870}e^1 \otimes e_3 + \frac{1}{786}\sqrt{68655}e^5 \otimes e_9$	{1289, 1469, 23568, 345}
942:1	$0, 0, 0, 0, 0, \frac{6}{1423}\sqrt{5494}e^{12}, \frac{6}{1423}\sqrt{14338}e^{13}, \frac{15}{1423}\sqrt{134}e^{16}, \frac{9}{1423}\sqrt{4690}e^{26}$	$(-\frac{402}{1423}, \frac{441}{1423}, \frac{240}{1423}, \frac{165}{1423}, \frac{165}{1423}, \frac{39}{1423}, -\frac{162}{1423}, -\frac{363}{1423}, \frac{480}{1423})$ $+\frac{3}{1423}\sqrt{101170}e^2 \otimes e_7 + \frac{3}{1423}\sqrt{67402}e^3 \otimes e_8$	{123459, 12349, 1239, 1456789, 146789, 16789}
942:1	$0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470}e^{12}, \frac{12}{551}\sqrt{2082}e^{13}, \frac{2}{551}\sqrt{19779}e^{16}, \frac{2}{551}\sqrt{17697}e^{26}$	$(-\frac{23}{551}, \frac{85}{551}, \frac{335}{551}, -\frac{359}{551}, \frac{96}{551}, \frac{62}{551}, \frac{312}{551}, \frac{39}{551}, \frac{147}{551})$ $+\frac{2}{551}\sqrt{157885}e^3 \otimes e_4$	{123568, 12368, 1245678, 124678, 13, 135, 1457, 147, 235789, 23789, 24589, 2489, 35679, 3679, 4569, 469}
942:1	$0, 0, 0, 0, 0, \frac{14}{1609}\sqrt{1654}e^{12}, \frac{9}{1609}\sqrt{8270}e^{13}, \frac{6}{1609}\sqrt{9097}e^{16}, \frac{2}{1609}\sqrt{2481}e^{26}$	$(\frac{194}{1609}, -\frac{10}{1609}, -\frac{225}{1609}, \frac{796}{1609}, -\frac{633}{1609}, \frac{184}{1609}, -\frac{31}{1609}, \frac{378}{1609}, \frac{174}{1609})$ $+\frac{1}{1609}\sqrt{1344702}e^1 \otimes e_5 + \frac{4}{1609}\sqrt{63679}e^4 \otimes e_7$	{12348, 1278, 1346, 167, 2356789, 245689, 3579, 459}
942:1	$0, 0, 0, 0, 0, \frac{12}{3469}\sqrt{5487}e^{12}, \frac{6}{3469}\sqrt{35105}e^{13}, \frac{18}{3469}\sqrt{5015}e^{16}, \frac{24}{3469}\sqrt{118}e^{26}$	$(-\frac{21}{3469}, -\frac{90}{3469}, \frac{930}{3469}, -\frac{1083}{3469}, \frac{861}{3469}, -\frac{111}{3469}, \frac{909}{3469}, -\frac{132}{3469}, -\frac{201}{3469})$ $+\frac{6}{3469}\sqrt{32273}e^5 \otimes e_9 + \frac{6}{3469}\sqrt{71449}e^3 \otimes e_8 + \frac{6}{3469}\sqrt{82423}e^1 \otimes e_4$	{12789, 1369, 24568, 3457}
942:1	$0, 0, 0, 0, 0, \frac{6}{787}\sqrt{1398}e^{12}, \frac{2}{787}\sqrt{57318}e^{13}, \frac{2}{787}\sqrt{30290}e^{16}, \frac{4}{787}\sqrt{13281}e^{26}$	$(\frac{22}{787}, -\frac{90}{787}, \frac{308}{787}, \frac{317}{787}, -\frac{149}{787}, -\frac{68}{787}, \frac{330}{787}, -\frac{46}{787}, -\frac{158}{787})$ $+\frac{2}{787}\sqrt{109510}e^3 \otimes e_9 + \frac{466}{787}e^4 \otimes e_5$	{123468, 123568, 134, 135, 2489, 2589, 469, 569}
942:1	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{1790}e^{12}, \frac{1}{141}\sqrt{3938}e^{13}, \frac{2}{141}\sqrt{1074}e^{16}, \frac{1}{141}\sqrt{18258}e^{26}$	$(\frac{22}{141}, -\frac{10}{47}, \frac{5}{47}, 1, \frac{26}{141}, -\frac{8}{141}, \frac{37}{141}, \frac{14}{141}, -\frac{38}{141})$ $+\frac{1}{141}\sqrt{41170}e^4 \otimes e_9$	{12359, 1239, 12579, 1279, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 34578, 3478, 458, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:1	$0, 0, 0, 0, 0, \frac{22}{2785} \sqrt{1299}e^{12}, \frac{6}{2785} \sqrt{24681}e^{13}, \frac{4}{557} \sqrt{1299}e^{16}, \frac{2}{2785} \sqrt{404422}e^{26}$	$(-\frac{312}{2785}, \frac{61}{557}, -\frac{249}{2785}, \frac{547}{2785}, \frac{1164}{2785}, -\frac{7}{2785}, -\frac{561}{2785}, -\frac{319}{2785}, \frac{298}{2785})$ $+ \frac{12}{557} \sqrt{433}e^5 \otimes e_9 + \frac{2}{2785} \sqrt{122539}e^4 \otimes e_8 + \frac{2}{2785} \sqrt{579354}e^2 \otimes e_7$	{12349, 16789, 2456, 3578}
942:1	$0, 0, 0, 0, 0, \frac{2}{99} \sqrt{66}e^{12}, \frac{10}{99} \sqrt{11}e^{13}, \frac{2}{33} \sqrt{22}e^{16}, \frac{1}{99} \sqrt{154}e^{26}$	$(-\frac{2}{33}, \frac{5}{99}, \frac{5}{33}, -\frac{28}{99}, \frac{31}{99}, -\frac{1}{99}, \frac{1}{11}, -\frac{7}{99}, \frac{4}{99})$ $+ \frac{1}{99} \sqrt{1034}e^5 \otimes e_7 + \frac{1}{99} \sqrt{1430}e^3 \otimes e_8 + \frac{1}{99} \sqrt{1562}e^1 \otimes e_4$	{1278, 1356, 245689, 3479}
942:1	$0, 0, 0, 0, 0, \frac{16}{113} \sqrt{3}e^{12}, \frac{16}{113} \sqrt{29}e^{13}, \frac{16}{113} \sqrt{29}e^{16}, \frac{16}{113} \sqrt{3}e^{26}$	$(-\frac{35}{113}, \frac{26}{113}, \frac{84}{113}, \frac{20}{113}, \frac{20}{113}, -\frac{9}{113}, \frac{49}{113}, -\frac{44}{113}, \frac{17}{113})$ $+ \frac{16}{113} \sqrt{93}e^3 \otimes e_8$	{1234569, 123469, 12369, 145789, 14789, 1789, 23457, 2347, 237, 4568, 468, 68}
942:1	$0, 0, 0, 0, 0, \frac{1}{31} \sqrt{190}e^{12}, \frac{1}{93} \sqrt{1482}e^{13}, \frac{4}{93} \sqrt{57}e^{16}, \frac{2}{93} \sqrt{627}e^{26}$	$(-\frac{3}{31}, \frac{7}{31}, -\frac{2}{93}, \frac{46}{93}, -\frac{12}{31}, \frac{4}{31}, -\frac{11}{93}, \frac{1}{31}, \frac{11}{31})$ $+ \frac{1}{93} \sqrt{3990}e^4 \otimes e_7 + \frac{1}{93} \sqrt{5358}e^2 \otimes e_5$	{12349, 1279, 1345689, 156789, 2367, 246, 3578, 458}
942:1	$0, 0, 0, 0, 0, \frac{2}{303} \sqrt{6313}e^{12}, \frac{1}{303} \sqrt{10914}e^{13}, \frac{1}{303} \sqrt{13910}e^{16}, \frac{1}{303} \sqrt{6634}e^{26}$	$(\frac{43}{303}, \frac{3}{101}, -\frac{64}{303}, -\frac{98}{303}, \frac{10}{101}, \frac{52}{303}, -\frac{7}{101}, \frac{95}{303}, \frac{61}{303})$ $+ \frac{16}{303} \sqrt{107}e^2 \otimes e_4 + \frac{1}{303} \sqrt{31030}e^1 \otimes e_3$	{12589, 1289, 14569, 1469, 23568, 2368, 34, 345}
942:1	$0, 0, 0, 0, 0, \frac{1}{379} \sqrt{19910}e^{12}, \frac{1}{379} \sqrt{3982}e^{13}, \frac{2}{379} \sqrt{3982}e^{16}, \frac{1}{379} \sqrt{11946}e^{26}$	$(\frac{66}{379}, -\frac{52}{379}, -\frac{115}{379}, \frac{132}{379}, \frac{143}{379}, \frac{14}{379}, -\frac{49}{379}, \frac{80}{379}, -\frac{38}{379})$ $+ \frac{1}{379} \sqrt{38734}e^5 \otimes e_9 + \frac{2}{379} \sqrt{12670}e^1 \otimes e_3 + \frac{8}{379} \sqrt{543}e^4 \otimes e_7$	{12789, 1679, 235678, 357}
942:1	$0, 0, 0, 0, 0, \frac{6}{205} \sqrt{17}e^{12}, \frac{3}{205} \sqrt{986}e^{13}, \frac{3}{205} \sqrt{986}e^{16}, \frac{6}{205} \sqrt{17}e^{26}$	$(-\frac{33}{205}, \frac{27}{205}, \frac{17}{41}, \frac{114}{205}, -\frac{68}{205}, -\frac{6}{205}, \frac{52}{205}, -\frac{39}{205}, \frac{21}{205})$ $+ \frac{3}{205} \sqrt{3094}e^3 \otimes e_5 + \frac{6}{205} \sqrt{3094}e^4 \otimes e_8$	{123469, 1245679, 1389, 15789, 2347, 245, 3678, 568}
942:1	$0, 0, 0, 0, 0, \frac{2}{1569} \sqrt{89749}e^{12}, \frac{5}{1569} \sqrt{13530}e^{13}, \frac{2}{1569} \sqrt{10373}e^{16}, \frac{4}{1569} \sqrt{16687}e^{26}$	$(-\frac{10}{1569}, \frac{80}{523}, -\frac{67}{523}, -\frac{461}{1569}, \frac{58}{523}, \frac{230}{1569}, -\frac{211}{1569}, \frac{220}{1569}, \frac{470}{1569})$ $+ \frac{1}{1569} \sqrt{572770}e^1 \otimes e_4 + \frac{4}{1569} \sqrt{42845}e^2 \otimes e_7$	{123589, 12389, 15679, 1679, 24568, 2468, 3457, 347}
942:1	$0, 0, 0, 0, 0, \frac{6}{1819} \sqrt{17015}e^{12}, \frac{3}{1819} \sqrt{52890}e^{13}, \frac{1}{1819} \sqrt{995070}e^{16}, \frac{1}{1819} \sqrt{271830}e^{26}$	$(\frac{11}{107}, -\frac{131}{1819}, -\frac{4}{17}, \frac{858}{1819}, \frac{146}{1819}, \frac{56}{1819}, \frac{241}{1819}, \frac{243}{1819}, -\frac{75}{1819})$ $+ \frac{31}{1819} \sqrt{1230}e^1 \otimes e_3 + \frac{4}{1819} \sqrt{54735}e^4 \otimes e_8$	{1258, 128, 1456, 146, 235689, 23689, 3459, 349}
942:1	$0, 0, 0, 0, 0, \frac{2}{277} \sqrt{13281}e^{12}, \frac{1}{277} \sqrt{30290}e^{13}, \frac{1}{277} \sqrt{57318}e^{16}, \frac{3}{277} \sqrt{1398}e^{26}$	$(\frac{105}{277}, -\frac{45}{277}, -\frac{128}{277}, \frac{42}{277}, \frac{42}{277}, \frac{60}{277}, -\frac{23}{277}, \frac{165}{277}, \frac{15}{277})$ $+ \frac{1}{277} \sqrt{109510}e^1 \otimes e_3$	{12458, 1248, 128, 1456, 146, 16, 2345689, 234689, 23689, 3459, 349, 39}
942:1	$0, 0, 0, 0, 0, \frac{2}{93} \sqrt{627}e^{12}, \frac{4}{93} \sqrt{57}e^{13}, \frac{1}{93} \sqrt{1482}e^{16}, \frac{1}{31} \sqrt{190}e^{26}$	$(-\frac{16}{93}, \frac{7}{31}, \frac{19}{93}, \frac{46}{93}, -\frac{12}{31}, \frac{5}{93}, \frac{1}{31}, -\frac{11}{93}, \frac{26}{93})$ $+ \frac{1}{93} \sqrt{3990}e^4 \otimes e_8 + \frac{1}{93} \sqrt{5358}e^2 \otimes e_5$	{123789, 1289, 1345679, 14569, 2368, 2678, 345, 457}
942:1	$0, 0, 0, 0, 0, \frac{1}{31} \sqrt{190}e^{12}, \frac{1}{93} \sqrt{1482}e^{13}, \frac{4}{93} \sqrt{57}e^{16}, \frac{2}{93} \sqrt{627}e^{26}$	$(-\frac{3}{31}, \frac{7}{31}, \frac{11}{31}, -\frac{12}{31}, -\frac{8}{31}, \frac{4}{31}, \frac{8}{31}, \frac{1}{31}, \frac{11}{31})$ $+ \frac{1}{93} \sqrt{3990}e^3 \otimes e_5 + \frac{1}{93} \sqrt{5358}e^2 \otimes e_4$	{1239, 12579, 134689, 1456789, 2367, 256, 3478, 458}
942:1	$0, 0, 0, 0, 0, \frac{2}{293} \sqrt{1455}e^{12}, \frac{4}{293} \sqrt{582}e^{13}, \frac{1}{293} \sqrt{9118}e^{16}, \frac{1}{293} \sqrt{4074}e^{26}$	$(\frac{13}{293}, -\frac{24}{293}, \frac{62}{293}, -\frac{84}{293}, \frac{99}{293}, -\frac{11}{293}, \frac{75}{293}, \frac{2}{293}, -\frac{35}{293})$ $+ \frac{12}{293} \sqrt{97}e^5 \otimes e_8 + \frac{1}{293} \sqrt{16102}e^3 \otimes e_9 + \frac{1}{293} \sqrt{21534}e^1 \otimes e_4$	{12789, 15679, 234678, 3457}
942:1	$0, 0, 0, 0, 0, \frac{2}{111} \sqrt{534}e^{12}, \frac{4}{111} \sqrt{89}e^{13}, \frac{4}{111} \sqrt{89}e^{16}, \frac{2}{111} \sqrt{534}e^{26}$	$(\frac{8}{111}, \frac{10}{111}, \frac{6}{37}, 1, -\frac{67}{111}, \frac{6}{37}, \frac{26}{111}, \frac{26}{111}, \frac{28}{111})$ $+ \frac{178}{111} e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 234678, 235678, 2468, 2568, 347, 357, 4, 5}
942:1	$0, 0, 0, 0, 0, \frac{1}{385} \sqrt{21749}e^{12}, \frac{1}{770} \sqrt{64769}e^{13}, \frac{1}{770} \sqrt{135274}e^{16}, \frac{1}{385} \sqrt{5019}e^{26}$	$(\frac{81}{770}, -\frac{163}{1540}, -\frac{79}{385}, \frac{639}{1540}, \frac{157}{770}, -\frac{1}{1540}, -\frac{1}{10}, \frac{23}{220}, -\frac{41}{385})$ $+ \frac{1}{770} \sqrt{47083}e^5 \otimes e_9 + \frac{3}{770} \sqrt{13862}e^4 \otimes e_8 + \frac{4}{385} \sqrt{2629}e^1 \otimes e_3$	{1258, 1456, 23689, 349}
942:1	$0, 0, 0, 0, 0, \frac{14}{1609} \sqrt{1654}e^{12}, \frac{9}{1609} \sqrt{8270}e^{13}, \frac{6}{1609} \sqrt{9097}e^{16}, \frac{2}{1609} \sqrt{2481}e^{26}$	$(\frac{194}{1609}, -\frac{10}{1609}, \frac{391}{1609}, -\frac{633}{1609}, -\frac{436}{1609}, \frac{184}{1609}, \frac{585}{1609}, \frac{378}{1609}, \frac{174}{1609})$ $+ \frac{1}{1609} \sqrt{1344702}e^1 \otimes e_4 + \frac{4}{1609} \sqrt{63679}e^3 \otimes e_5$	{1238, 12578, 136, 1567, 2346789, 245689, 3479, 459}
942:1	$0, 0, 0, 0, 0, \frac{24}{935} \sqrt{13}e^{12}, \frac{12}{935} \sqrt{403}e^{13}, \frac{2}{935} \sqrt{8931}e^{16}, \frac{4}{935} \sqrt{3783}e^{26}$	$(-\frac{118}{935}, \frac{16}{187}, \frac{24}{187}, \frac{73}{935}, \frac{73}{935}, -\frac{38}{935}, \frac{2}{935}, -\frac{156}{935}, \frac{42}{935})$ $+ \frac{2}{935} \sqrt{16341}e^3 \otimes e_9 + \frac{2}{935} \sqrt{17277}e^2 \otimes e_7$	{1456789, 146789, 16789, 34578, 3478, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:1	$0, 0, 0, 0, 0, \frac{2}{551}\sqrt{17697}e^{12}, \frac{2}{551}\sqrt{19779}e^{13}, \frac{12}{551}\sqrt{2082}e^{16}, \frac{4}{551}\sqrt{3470}e^{26}$	$(-\frac{6}{29}, \frac{85}{551}, \frac{153}{551}, 1, \frac{96}{551}, -\frac{1}{19}, \frac{39}{551}, -\frac{143}{551}, \frac{56}{551}) + \frac{2}{551}\sqrt{157885}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 235689, 23689, 256789, 26789, 3459, 349, 4579, 479}
942:1	$0, 0, 0, 0, 0, \frac{36}{1813}\sqrt{214}e^{12}, \frac{3}{1813}\sqrt{129898}e^{13}, \frac{12}{1813}\sqrt{1819}e^{16}, \frac{3}{1813}\sqrt{2782}e^{26}$	$(-\frac{424}{1813}, \frac{306}{1813}, \frac{421}{1813}, \frac{960}{1813}, \frac{25}{259}, -\frac{118}{1813}, -\frac{3}{1813}, -\frac{542}{1813}, \frac{188}{1813}) + \frac{3}{1813}\sqrt{167990}e^4 \otimes e_7 + \frac{1}{1813}\sqrt{182542}e^3 \otimes e_8$	{123456, 12346, 1578, 178, 23579, 2379, 45689, 4689}
942:1	$0, 0, 0, 0, 0, \frac{4}{527}\sqrt{515}e^{12}, \frac{2}{527}\sqrt{7622}e^{13}, \frac{1}{527}\sqrt{18643}e^{16}, \frac{2}{527}\sqrt{8446}e^{26}$	$(-\frac{57}{527}, \frac{64}{527}, \frac{18}{527}, -\frac{5}{31}, \frac{174}{527}, \frac{7}{527}, -\frac{39}{527}, -\frac{50}{527}, \frac{71}{527}) + \frac{1}{527}\sqrt{25853}e^3 \otimes e_4 + \frac{1}{527}\sqrt{27501}e^5 \otimes e_9 + \frac{1}{527}\sqrt{46865}e^2 \otimes e_7$	{1239, 146789, 2456, 3578}
942:1	$0, 0, 0, 0, 0, \frac{1}{567}\sqrt{21306}e^{12}, \frac{1}{567}\sqrt{82410}e^{13}, \frac{1}{567}\sqrt{40602}e^{16}, \frac{1}{567}\sqrt{62310}e^{26}$	$(-\frac{100}{567}, \frac{52}{189}, \frac{55}{567}, -\frac{146}{567}, \frac{19}{189}, \frac{8}{81}, -\frac{5}{63}, -\frac{44}{567}, \frac{212}{567}) + \frac{1}{567}\sqrt{123414}e^2 \otimes e_7 + \frac{1}{567}\sqrt{81606}e^3 \otimes e_4$	{12359, 1239, 1456789, 146789, 2456, 246, 3578, 378}
942:1	$0, 0, 0, 0, 0, \frac{4}{787}\sqrt{13281}e^{12}, \frac{2}{787}\sqrt{30290}e^{13}, \frac{2}{787}\sqrt{57318}e^{16}, \frac{6}{787}\sqrt{1398}e^{26}$	$(\frac{210}{787}, -\frac{90}{787}, -\frac{256}{787}, \frac{317}{787}, -\frac{149}{787}, \frac{120}{787}, -\frac{46}{787}, \frac{330}{787}, \frac{30}{787}) + \frac{2}{787}\sqrt{109510}e^1 \otimes e_3 + \frac{466}{787}e^4 \otimes e_5$	{1248, 1258, 146, 156, 234689, 235689, 349, 359}
942:1	$0, 0, 0, 0, 0, \frac{3}{1697}\sqrt{15322}e^{12}, \frac{3}{1697}\sqrt{37882}e^{13}, \frac{6}{1697}\sqrt{3149}e^{16}, \frac{9}{1697}\sqrt{5170}e^{26}$	$(-\frac{282}{1697}, \frac{234}{1697}, \frac{93}{1697}, \frac{150}{1697}, \frac{609}{1697}, -\frac{48}{1697}, -\frac{189}{1697}, -\frac{330}{1697}, \frac{186}{1697}) + \frac{6}{1697}\sqrt{17437}e^2 \otimes e_7 + \frac{6}{1697}\sqrt{8131}e^3 \otimes e_8 + \frac{9}{1697}\sqrt{4794}e^5 \otimes e_9$	{12349, 1239, 146789, 16789}
942:1	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{3}{55}\sqrt{86}e^{13}, \frac{3}{55}\sqrt{34}e^{16}, \frac{6}{55}\sqrt{13}e^{26}$	$(-\frac{3}{55}, -\frac{3}{55}, \frac{9}{55}, \frac{24}{55}, \frac{55}{55}, -\frac{6}{55}, \frac{6}{55}, -\frac{9}{55}, -\frac{9}{55}) + \frac{3}{55}\sqrt{105}e^3 \otimes e_9 + \frac{3}{55}\sqrt{19}e^5 \otimes e_8 + \frac{3}{55}\sqrt{79}e^4 \otimes e_7$	{123468, 1345, 2489, 4569}
942:1	$0, 0, 0, 0, 0, \frac{20}{39}e^{12}, \frac{4}{39}\sqrt{3}e^{13}, \frac{4}{39}\sqrt{10}e^{16}, \frac{4}{39}\sqrt{11}e^{26}$	$(\frac{1}{13}, \frac{7}{78}, \frac{1}{13}, -\frac{1}{3}, -\frac{25}{78}, \frac{1}{6}, \frac{2}{13}, \frac{19}{78}, \frac{10}{39}) + \frac{4}{39}\sqrt{34}e^2 \otimes e_5 + \frac{4}{39}\sqrt{35}e^1 \otimes e_4$	{12389, 12789, 13569, 15679, 234678, 2468, 3457, 45}
942:1	$0, 0, 0, 0, 0, \frac{16}{2071}\sqrt{2415}e^{12}, \frac{4}{2071}\sqrt{10010}e^{13}, \frac{8}{2071}\sqrt{9730}e^{16}, \frac{4}{2071}\sqrt{2870}e^{26}$	$(\frac{43}{2071}, \frac{86}{2071}, -\frac{517}{2071}, \frac{174}{2071}, \frac{732}{2071}, \frac{129}{2071}, -\frac{474}{2071}, \frac{172}{2071}, \frac{215}{2071}) + \frac{20}{2071}\sqrt{1414}e^2 \otimes e_7 + \frac{24}{2071}\sqrt{1085}e^5 \otimes e_8 + \frac{8}{2071}\sqrt{14595}e^1 \otimes e_3$	{12489, 1289, 23468, 2368}
942:1	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{2814}e^{12}, \frac{2}{73}\sqrt{335}e^{13}, \frac{2}{73}\sqrt{737}e^{16}, \frac{1}{73}\sqrt{402}e^{26}$	$(\frac{20}{73}, -\frac{5}{73}, \frac{3}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{15}{73}, \frac{23}{73}, \frac{35}{73}, \frac{10}{73}) + \frac{2}{73}\sqrt{2010}e^1 \otimes e_4$	{12358, 1238, 12578, 1278, 1356, 136, 1567, 167, 23456789, 2346789, 245689, 24689, 34579, 3479, 459, 49}
942:1	$0, 0, 0, 0, 0, \frac{2}{79}\sqrt{105}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{70}e^{16}, \frac{5}{79}\sqrt{42}e^{26}$	$(\frac{11}{79}, -\frac{12}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{9}{79}, -\frac{1}{79}, \frac{33}{79}, \frac{10}{79}, -\frac{13}{79}) + \frac{1}{79}\sqrt{2310}e^1 \otimes e_4 + \frac{1}{79}\sqrt{2590}e^3 \otimes e_9$	{125789, 12789, 15679, 1679, 2345678, 234678, 3457, 347}
942:1	$0, 0, 0, 0, 0, \frac{12}{487}\sqrt{13}e^{12}, \frac{6}{487}\sqrt{403}e^{13}, \frac{1}{487}\sqrt{8931}e^{16}, \frac{2}{487}\sqrt{3783}e^{26}$	$(-\frac{59}{487}, \frac{40}{487}, \frac{60}{487}, \frac{17}{487}, \frac{56}{487}, -\frac{19}{487}, \frac{1}{487}, -\frac{78}{487}, \frac{21}{487}) + \frac{1}{487}\sqrt{16341}e^3 \otimes e_9 + \frac{1}{487}\sqrt{17277}e^2 \otimes e_7 + \frac{39}{487}e^5 \otimes e_4$	{146789, 156789, 3478, 3578}
942:1	$0, 0, 0, 0, 0, \frac{2}{211}\sqrt{55}e^{12}, \frac{2}{211}\sqrt{1397}e^{13}, \frac{1}{211}\sqrt{3322}e^{16}, \frac{2}{211}\sqrt{1430}e^{26}$	$(-\frac{13}{211}, \frac{7}{422}, \frac{38}{211}, -\frac{81}{422}, \frac{69}{211}, -\frac{19}{422}, \frac{25}{211}, -\frac{45}{422}, -\frac{6}{211}) + \frac{1}{211}\sqrt{4730}e^5 \otimes e_7 + \frac{1}{211}\sqrt{4906}e^2 \otimes e_4 + \frac{1}{211}\sqrt{7590}e^3 \otimes e_9$	{1279, 146789, 2367, 3478}
942:1	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30710}e^{12}, \frac{1}{311}\sqrt{15170}e^{13}, \frac{2}{311}\sqrt{7030}e^{16}, \frac{1}{311}\sqrt{7770}e^{26}$	$(\frac{90}{311}, -\frac{68}{311}, -\frac{95}{311}, \frac{139}{311}, \frac{36}{311}, \frac{22}{311}, -\frac{5}{311}, \frac{112}{311}, -\frac{46}{311}) + \frac{1}{311}\sqrt{38110}e^4 \otimes e_9 + \frac{2}{311}\sqrt{15910}e^1 \otimes e_3$	{12589, 1289, 1569, 169, 234568, 23468, 34, 345}
942:1	$0, 0, 0, 0, 0, \frac{3}{187}\sqrt{277}e^{12}, \frac{1}{374}\sqrt{5817}e^{13}, \frac{1}{374}\sqrt{31578}e^{16}, \frac{5}{187}\sqrt{277}e^{26}$	$(-\frac{21}{374}, -\frac{49}{748}, \frac{27}{187}, \frac{421}{748}, \frac{207}{374}, -\frac{91}{748}, \frac{3}{34}, -\frac{133}{748}, -\frac{35}{187}) + \frac{1}{374}\sqrt{90579}e^5 \otimes e_9 + \frac{1}{374}\sqrt{92518}e^4 \otimes e_8$	{123789, 1289, 134679, 1469, 23568, 25678, 345, 457}
942:1	$0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{5}{1181}\sqrt{3070}e^{13}, \frac{2}{1181}\sqrt{3070}e^{16}, \frac{1}{1181}\sqrt{190954}e^{26}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, \frac{108}{1181}, \frac{417}{1181}, \frac{66}{1181}, -\frac{263}{1181}, \frac{88}{1181}, \frac{110}{1181}) + \frac{1}{1181}\sqrt{189726}e^5 \otimes e_9 + \frac{2}{1181}\sqrt{41138}e^1 \otimes e_3 + \frac{4}{1181}\sqrt{19034}e^2 \otimes e_7$	{146789, 16789, 34578, 3578}
942:1	$0, 0, 0, 0, 0, \frac{12}{3449}\sqrt{5494}e^{12}, \frac{12}{3449}\sqrt{14338}e^{13}, \frac{30}{3449}\sqrt{134}e^{16}, \frac{18}{3449}\sqrt{4690}e^{26}$	$(-\frac{804}{3449}, \frac{882}{3449}, \frac{480}{3449}, -\frac{273}{3449}, \frac{933}{3449}, \frac{78}{3449}, -\frac{324}{3449}, -\frac{726}{3449}, \frac{960}{3449}) + \frac{1206}{3449}e^5 \otimes e_4 + \frac{6}{3449}\sqrt{101170}e^2 \otimes e_7 + \frac{6}{3449}\sqrt{67402}e^3 \otimes e_8$	{12349, 12359, 146789, 156789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:1	$0, 0, 0, 0, 0, \frac{16}{177}\sqrt{3}e^{12}, \frac{16}{177}\sqrt{29}e^{13}, \frac{16}{177}\sqrt{29}e^{16}, \frac{16}{177}\sqrt{3}e^{26}$	$(-\frac{35}{177}, \frac{26}{177}, \frac{28}{59}, \frac{28}{59}, -\frac{44}{177}, -\frac{3}{59}, \frac{49}{177}, -\frac{44}{177}, \frac{17}{177})$ $+\frac{128}{177}e^4 \otimes e_5 + \frac{16}{177}\sqrt{93}e^3 \otimes e_8$	{123469, 123569, 14789, 15789, 2347, 2357, 468, 568}
942:1	$0, 0, 0, 0, 0, \frac{1}{94}\sqrt{1558}e^{12}, \frac{1}{94}\sqrt{41}e^{13}, \frac{2}{47}\sqrt{41}e^{16}, \frac{1}{47}\sqrt{697}e^{26}$	$(-\frac{1}{94}, \frac{7}{188}, \frac{5}{47}, \frac{1}{2}, -\frac{75}{188}, \frac{5}{188}, \frac{9}{188}, \frac{3}{47}, \frac{3}{47})$ $+\frac{1}{94}\sqrt{3854}e^2 \otimes e_5 + \frac{5}{94}\sqrt{123}e^4 \otimes e_9$	{12379, 129, 1356789, 15689, 2346, 2467, 3458, 4578}
942:1	$0, 0, 0, 0, 0, \frac{2}{211}\sqrt{1430}e^{12}, \frac{1}{211}\sqrt{3322}e^{13}, \frac{2}{211}\sqrt{1397}e^{16}, \frac{2}{211}\sqrt{55}e^{26}$	$(\frac{43}{844}, \frac{7}{422}, -\frac{133}{844}, -\frac{81}{422}, \frac{69}{211}, \frac{57}{844}, -\frac{45}{422}, \frac{25}{211}, \frac{71}{844})$ $+\frac{1}{211}\sqrt{4730}e^5 \otimes e_8 + \frac{1}{211}\sqrt{4906}e^2 \otimes e_4 + \frac{1}{211}\sqrt{7590}e^1 \otimes e_3$	{1289, 14569, 2368, 345}
942:1	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{2870}e^{12}, \frac{8}{2071}\sqrt{9730}e^{13}, \frac{4}{2071}\sqrt{10010}e^{16}, \frac{16}{2071}\sqrt{2415}e^{26}$	$(-\frac{280}{2071}, \frac{86}{2071}, \frac{452}{2071}, \frac{174}{2071}, \frac{732}{2071}, -\frac{194}{2071}, \frac{172}{2071}, -\frac{474}{2071}, -\frac{108}{2071})$ $-\frac{20}{2071}\sqrt{1414}e^2 \otimes e_8 + \frac{24}{2071}\sqrt{1085}e^5 \otimes e_7 + \frac{8}{2071}\sqrt{14595}e^3 \otimes e_9$	{12479, 1279, 146789, 16789, 23467, 2367, 3478, 378}
942:1	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{2870}e^{12}, \frac{8}{2071}\sqrt{9730}e^{13}, \frac{4}{2071}\sqrt{10010}e^{16}, \frac{16}{2071}\sqrt{2415}e^{26}$	$(-\frac{280}{2071}, \frac{86}{2071}, \frac{452}{2071}, \frac{174}{2071}, \frac{732}{2071}, -\frac{194}{2071}, \frac{172}{2071}, -\frac{474}{2071}, -\frac{108}{2071})$ $+\frac{20}{2071}\sqrt{1414}e^2 \otimes e_8 + \frac{24}{2071}\sqrt{1085}e^5 \otimes e_7 + \frac{8}{2071}\sqrt{14595}e^3 \otimes e_9$	{12479, 1279, 146789, 16789, 23467, 2367, 3478, 378}
942:1	$0, 0, 0, 0, 0, \frac{1}{337}\sqrt{6690}e^{12}, \frac{9}{337}\sqrt{446}e^{13}, \frac{4}{337}\sqrt{1115}e^{16}, \frac{5}{337}\sqrt{1338}e^{26}$	$(\frac{10}{337}, -\frac{24}{337}, -\frac{45}{337}, \frac{188}{337}, \frac{185}{337}, -\frac{14}{337}, \frac{35}{337}, -\frac{4}{337}, -\frac{38}{337})$ $+\frac{1}{337}\sqrt{66454}e^5 \otimes e_9 + \frac{4}{337}\sqrt{4237}e^4 \otimes e_7$	{1234568, 125678, 1345, 157, 23789, 2489, 3679, 469}
942:1	$0, 0, 0, 0, 0, \frac{2}{3161}\sqrt{257342}e^{12}, \frac{2}{3161}\sqrt{99821}e^{13}, \frac{6}{3161}\sqrt{1731}e^{16}, \frac{6}{3161}\sqrt{54238}e^{26}$	$(-\frac{304}{3161}, \frac{219}{3161}, \frac{765}{3161}, -\frac{935}{3161}, \frac{1288}{3161}, -\frac{85}{3161}, \frac{461}{3161}, -\frac{389}{3161}, \frac{134}{3161})$ $+\frac{10}{3161}\sqrt{15002}e^3 \otimes e_8 + \frac{20}{3161}\sqrt{5770}e^5 \otimes e_9 + \frac{2}{3161}\sqrt{705671}e^2 \otimes e_4$	{1239, 146789, 23567, 458}
942:1	$0, 0, 0, 0, 0, \frac{4}{1457}\sqrt{5830}e^{12}, \frac{1}{1457}\sqrt{357962}e^{13}, \frac{4}{1457}\sqrt{2915}e^{16}, \frac{13}{1457}\sqrt{1166}e^{26}$	$(-\frac{296}{1457}, \frac{298}{1457}, \frac{289}{1457}, -\frac{285}{1457}, \frac{576}{1457}, \frac{2}{1457}, -\frac{7}{1457}, -\frac{294}{1457}, \frac{300}{1457})$ $+\frac{1}{1457}\sqrt{518870}e^5 \otimes e_7 + \frac{1}{1457}\sqrt{542190}e^3 \otimes e_8 + \frac{8}{1457}\sqrt{7579}e^2 \otimes e_4$	{12789, 134569, 2568, 347}
942:1	$0, 0, 0, 0, 0, \frac{11}{1615}\sqrt{102}e^{12}, \frac{11}{1615}\sqrt{3486}e^{13}, \frac{33}{1615}\sqrt{74}e^{16}, \frac{66}{1615}\sqrt{47}e^{26}$	$(\frac{77}{1615}, -\frac{143}{1615}, \frac{154}{1615}, -\frac{286}{1615}, \frac{594}{1615}, \frac{66}{1615}, \frac{231}{1615}, \frac{11}{1615}, -\frac{11}{85})$ $+\frac{11}{1615}\sqrt{3678}e^3 \otimes e_9 + \frac{132}{1615}\sqrt{17}e^1 \otimes e_4 + \frac{44}{1615}\sqrt{177}e^5 \otimes e_7$	{123568, 135, 24589, 4569}
942:1	$0, 0, 0, 0, 0, \frac{28}{225}\sqrt{11}e^{12}, \frac{28}{225}e^{13}, \frac{56}{225}\sqrt{5}e^{16}, \frac{14}{225}\sqrt{19}e^{26}$	$(\frac{8}{225}, -\frac{2}{225}, \frac{19}{225}, \frac{112}{225}, -\frac{2}{5}, \frac{2}{75}, \frac{3}{25}, \frac{14}{225}, \frac{4}{225})$ $+\frac{14}{225}\sqrt{113}e^1 \otimes e_5 + \frac{14}{225}\sqrt{89}e^4 \otimes e_8$	{1238, 1278, 1346, 1467, 2356789, 25689, 34579, 459}
942:2	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{3058}e^{12}, \frac{2}{939}\sqrt{43507}e^{34}, \frac{2}{939}\sqrt{22935}e^{16}, \frac{2}{313}\sqrt{1529}e^{26}$	$(\frac{77}{313}, -\frac{60}{313}, \frac{149}{939}, -\frac{196}{939}, \frac{39}{313}, \frac{17}{313}, -\frac{47}{939}, \frac{94}{313}, -\frac{43}{313})$ $+\frac{2}{313}\sqrt{7367}e^1 \otimes e_7 + \frac{2}{939}\sqrt{47955}e^3 \otimes e_9$	{12589, 1289, 1569, 169, 235678, 23678, 357, 37}
942:2	$0, 0, 0, 0, 0, \frac{2}{183}\sqrt{1398}e^{12}, \frac{1}{183}\sqrt{28426}e^{34}, \frac{1}{61}\sqrt{466}e^{16}, \frac{1}{61}\sqrt{466}e^{26}$	$(\frac{5}{61}, \frac{5}{61}, -\frac{25}{183}, -\frac{25}{183}, \frac{1}{61}, \frac{10}{61}, -\frac{50}{183}, \frac{15}{61}, \frac{15}{61})$ $+\frac{7}{183}\sqrt{1398}e^5 \otimes e_7$	{1234589, 123789, 12589, 134569, 13679, 1569, 345, 37, 5}
942:2	$0, 0, 0, 0, 0, \frac{28}{839}\sqrt{37}e^{12}, \frac{1}{2517}\sqrt{434602}e^{34}, \frac{4}{2517}\sqrt{29526}e^{16}, \frac{1}{2517}\sqrt{113442}e^{26}$	$(\frac{32}{839}, -\frac{10}{839}, \frac{421}{2517}, -\frac{584}{2517}, \frac{85}{839}, \frac{22}{839}, -\frac{163}{2517}, \frac{54}{839}, \frac{12}{839})$ $+\frac{1}{2517}\sqrt{520590}e^3 \otimes e_8 + \frac{1}{2517}\sqrt{651126}e^1 \otimes e_7$	{1258, 128, 13456, 1346, 2456789, 246789, 3579, 379}
942:2	$0, 0, 0, 0, 0, \frac{16}{1937}\sqrt{597}e^{12}, \frac{3}{1937}\sqrt{28258}e^{34}, \frac{2}{1937}\sqrt{68854}e^{16}, \frac{1}{1937}\sqrt{63282}e^{26}$	$(\frac{76}{1937}, -\frac{30}{1937}, \frac{321}{1937}, -\frac{444}{1937}, \frac{215}{1937}, \frac{46}{1937}, -\frac{123}{1937}, \frac{122}{1937}, \frac{16}{1937})$ $+\frac{1}{1937}\sqrt{380886}e^1 \otimes e_7 + \frac{2}{1937}\sqrt{1990}e^5 \otimes e_9 + \frac{3}{1937}\sqrt{33830}e^3 \otimes e_8$	{1258, 13456, 246789, 379}
942:2	$0, 0, 0, 0, 0, \frac{4}{59}\sqrt{47}e^{12}, \frac{4}{59}\sqrt{47}e^{34}, \frac{2}{59}\sqrt{141}e^{16}, \frac{2}{59}\sqrt{141}e^{26}$	$(\frac{5}{59}, \frac{5}{59}, \frac{55}{59}, -\frac{39}{59}, \frac{12}{59}, \frac{10}{59}, \frac{16}{59}, \frac{15}{59}, \frac{15}{59})$ $+\frac{94}{59}e^3 \otimes e_4$	{1235789, 123789, 1245789, 124789, 135679, 13679, 145679, 14679, 357, 37, 457, 47}
942:2	$0, 0, 0, 0, 0, \frac{8}{1093}\sqrt{5434}e^{12}, \frac{24}{1093}\sqrt{110}e^{34}, \frac{24}{1093}\sqrt{638}e^{16}, \frac{16}{1093}\sqrt{231}e^{26}$	$(\frac{233}{1093}, -\frac{70}{1093}, \frac{442}{1093}, -\frac{262}{1093}, -\frac{471}{1093}, \frac{163}{1093}, \frac{180}{1093}, \frac{396}{1093}, \frac{93}{1093})$ $+\frac{16}{1093}\sqrt{3333}e^1 \otimes e_5 + \frac{704}{1093}e^3 \otimes e_4$	{12378, 12478, 1367, 1467, 2356789, 2456789, 3579, 4579}
942:2	$0, 0, 0, 0, 0, \frac{4}{1339}\sqrt{16962}e^{12}, \frac{4}{1339}\sqrt{16962}e^{34}, \frac{22}{1339}\sqrt{514}e^{16}, \frac{2}{1339}\sqrt{16962}e^{26}$	$(\frac{22}{103}, -\frac{180}{1339}, \frac{11}{103}, -\frac{371}{1339}, \frac{440}{1339}, \frac{106}{1339}, -\frac{228}{1339}, \frac{392}{1339}, -\frac{74}{1339})$ $+\frac{2}{1339}\sqrt{164994}e^1 \otimes e_7 + \frac{2}{1339}\sqrt{74530}e^5 \otimes e_9 + \frac{514}{1339}e^3 \otimes e_4$	{235678, 245678, 357, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:2	$0, 0, 0, 0, 0, \frac{8}{247}\sqrt{110}e^{12}, \frac{8}{741}\sqrt{5434}e^{34}, \frac{8}{247}\sqrt{638}e^{16}, \frac{16}{741}\sqrt{231}e^{26}$	$(-\frac{3}{13}, \frac{44}{247}, \frac{2}{3}, -\frac{112}{741}, \frac{45}{247}, -\frac{1}{19}, \frac{382}{741}, -\frac{70}{247}, \frac{31}{247})$ $+\frac{16}{741}\sqrt{3333}e^3 \otimes e_8$	{124578, 12478, 1258, 128, 13456, 1346, 13567, 1367, 2456789, 246789, 25689, 2689, 3459, 349, 3579, 379}
942:2	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{5455}e^{12}, \frac{1}{2433}\sqrt{1769602}e^{34}, \frac{2}{811}\sqrt{31639}e^{16}, \frac{2}{2433}\sqrt{45822}e^{26}$	$(-\frac{114}{811}, \frac{88}{811}, \frac{671}{2433}, -\frac{541}{2433}, \frac{407}{811}, -\frac{26}{811}, \frac{130}{2433}, -\frac{140}{811}, \frac{62}{811})$ $+\frac{1}{2433}\sqrt{2075082}e^5 \otimes e_7 + \frac{2}{2433}\sqrt{661146}e^3 \otimes e_8$	{12478, 1258, 13456, 1367, 246789, 25689, 3459, 379}
942:2	$0, 0, 0, 0, 0, \frac{6}{227}\sqrt{182}e^{12}, \frac{6}{227}\sqrt{182}e^{34}, \frac{2}{227}\sqrt{3198}e^{16}, \frac{2}{227}\sqrt{741}e^{26}$	$(\frac{2}{227}, \frac{2}{227}, \frac{84}{227}, -\frac{17}{227}, -\frac{76}{227}, \frac{4}{227}, \frac{67}{227}, \frac{6}{227}, \frac{6}{227})$ $+\frac{2}{227}\sqrt{3939}e^1 \otimes e_5 + \frac{2}{227}\sqrt{3939}e^3 \otimes e_8$	{12478, 128, 1346, 1367, 2456789, 25689, 3459, 3579}
942:2	$0, 0, 0, 0, 0, \frac{8}{67}\sqrt{17}e^{12}, \frac{8}{67}\sqrt{17}e^{34}, \frac{24}{67}\sqrt{2}e^{16}, \frac{8}{67}\sqrt{3}e^{26}$	$(\frac{16}{67}, -\frac{5}{67}, \frac{8}{67}, -\frac{24}{67}, \frac{9}{67}, \frac{11}{67}, -\frac{16}{67}, \frac{27}{67}, \frac{6}{67})$ $+\frac{32}{67}e^3 \otimes e_4 + \frac{8}{67}\sqrt{42}e^1 \otimes e_7$	{2356789, 236789, 2456789, 246789, 3579, 379, 4579, 479}
942:2	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{1686}e^{12}, \frac{1}{687}\sqrt{128698}e^{34}, \frac{8}{687}\sqrt{843}e^{16}, \frac{8}{687}\sqrt{843}e^{26}$	$(-\frac{14}{229}, -\frac{14}{229}, \frac{155}{687}, \frac{155}{687}, \frac{27}{229}, -\frac{28}{229}, \frac{310}{687}, -\frac{42}{229}, -\frac{42}{229})$ $+\frac{1}{687}\sqrt{170286}e^3 \otimes e_8 + \frac{1}{687}\sqrt{170286}e^4 \otimes e_9$	{12589, 1289, 135679, 13679, 34, 345}
942:2	$0, 0, 0, 0, 0, \frac{2}{453}\sqrt{7293}e^{12}, \frac{1}{453}\sqrt{43186}e^{34}, \frac{2}{151}\sqrt{858}e^{16}, \frac{2}{151}\sqrt{143}e^{26}$	$(\frac{32}{151}, -\frac{10}{151}, \frac{50}{453}, -\frac{97}{453}, -\frac{31}{151}, \frac{22}{151}, -\frac{47}{453}, \frac{54}{151}, \frac{12}{151})$ $+\frac{2}{151}\sqrt{2002}e^1 \otimes e_7 + \frac{7}{453}\sqrt{858}e^3 \otimes e_5$	{12348, 1258, 1346, 156, 236789, 2456789, 379, 4579}
942:2	$0, 0, 0, 0, 0, \frac{8}{741}\sqrt{5434}e^{12}, \frac{8}{247}\sqrt{110}e^{34}, \frac{8}{247}\sqrt{638}e^{16}, \frac{16}{741}\sqrt{231}e^{26}$	$(\frac{233}{741}, -\frac{70}{741}, \frac{30}{247}, \frac{30}{247}, -\frac{157}{247}, \frac{163}{741}, \frac{60}{247}, \frac{132}{247}, \frac{31}{247})$ $+\frac{16}{741}\sqrt{3333}e^1 \otimes e_5$	{12348, 12378, 128, 1346, 1367, 16, 2345689, 2356789, 25689, 3459, 3579, 59}
942:2	$0, 0, 0, 0, 0, \frac{12}{377}\sqrt{133}e^{12}, \frac{12}{377}\sqrt{133}e^{34}, \frac{4}{377}\sqrt{1938}e^{16}, \frac{2}{377}\sqrt{1767}e^{26}$	$(\frac{32}{377}, -\frac{10}{377}, -\frac{41}{377}, -\frac{41}{377}, \frac{168}{377}, \frac{22}{377}, -\frac{82}{377}, \frac{54}{377}, \frac{12}{377})$ $+\frac{10}{377}\sqrt{285}e^5 \otimes e_8 + \frac{38}{377}\sqrt{33}e^1 \otimes e_7$	{12348, 128, 13456, 156, 236789, 3579}
942:2	$0, 0, 0, 0, 0, \frac{2}{939}\sqrt{43507}e^{12}, \frac{2}{313}\sqrt{3058}e^{34}, \frac{2}{313}\sqrt{1529}e^{16}, \frac{2}{939}\sqrt{22935}e^{26}$	$(\frac{50}{939}, \frac{116}{939}, -\frac{27}{313}, -\frac{27}{313}, -\frac{76}{313}, \frac{166}{939}, -\frac{54}{313}, \frac{72}{313}, \frac{94}{313})$ $+\frac{2}{313}\sqrt{7367}e^2 \otimes e_7 + \frac{2}{939}\sqrt{47955}e^1 \otimes e_5$	{123489, 1289, 13679, 234568, 2568, 357}
942:2	$0, 0, 0, 0, 0, \frac{4}{239}\sqrt{570}e^{12}, \frac{4}{239}\sqrt{570}e^{34}, \frac{8}{239}\sqrt{798}e^{16}, \frac{4}{239}\sqrt{494}e^{26}$	$(-\frac{54}{239}, \frac{43}{239}, \frac{30}{239}, \frac{30}{239}, 1, -\frac{11}{239}, \frac{60}{239}, -\frac{65}{239}, \frac{32}{239})$ $+\frac{8}{239}\sqrt{1843}e^5 \otimes e_8$	{12348, 12378, 128, 13456, 13567, 156, 234689, 236789, 2689, 3459, 3579, 59}
942:2	$0, 0, 0, 0, 0, \frac{4}{391}\sqrt{570}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{8}{391}\sqrt{798}e^{16}, \frac{4}{391}\sqrt{494}e^{26}$	$(-\frac{54}{391}, \frac{43}{391}, \frac{182}{391}, -\frac{122}{391}, \frac{239}{391}, -\frac{11}{391}, \frac{60}{391}, -\frac{65}{391}, \frac{32}{391})$ $+\frac{304}{391}e^3 \otimes e_4 + \frac{8}{391}\sqrt{1843}e^5 \otimes e_8$	{12378, 12478, 13567, 14567, 236789, 246789, 3579, 4579}
942:2	$0, 0, 0, 0, 0, \frac{10}{233}\sqrt{110}e^{12}, \frac{10}{233}\sqrt{110}e^{34}, \frac{5}{233}\sqrt{330}e^{16}, \frac{5}{233}\sqrt{330}e^{26}$	$(\frac{55}{233}, -\frac{46}{233}, \frac{88}{233}, -\frac{13}{233}, -\frac{70}{233}, \frac{9}{233}, \frac{75}{233}, \frac{64}{233}, -\frac{37}{233})$ $+\frac{5}{233}\sqrt{1010}e^1 \otimes e_5 + \frac{5}{233}\sqrt{1010}e^3 \otimes e_9$	{124789, 1289, 14679, 169, 234568, 235678, 345, 357}
942:2	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{16962}e^{12}, \frac{2}{541}\sqrt{16962}e^{34}, \frac{11}{541}\sqrt{514}e^{16}, \frac{1}{541}\sqrt{16962}e^{26}$	$(\frac{143}{541}, -\frac{90}{541}, -\frac{57}{541}, -\frac{57}{541}, \frac{220}{541}, \frac{53}{541}, -\frac{114}{541}, \frac{196}{541}, -\frac{37}{541})$ $+\frac{1}{541}\sqrt{164994}e^1 \otimes e_7 + \frac{1}{541}\sqrt{74530}e^5 \otimes e_9$	{123489, 1289, 13469, 169, 235678, 357}
942:2	$0, 0, 0, 0, 0, \frac{2}{907}\sqrt{11037}e^{12}, \frac{16}{907}\sqrt{849}e^{34}, \frac{8}{907}\sqrt{2830}e^{16}, \frac{8}{907}\sqrt{1698}e^{26}$	$(-\frac{82}{907}, -\frac{18}{907}, \frac{384}{907}, -\frac{75}{907}, \frac{448}{907}, -\frac{100}{907}, \frac{309}{907}, -\frac{182}{907}, -\frac{118}{907})$ $+\frac{2}{907}\sqrt{93673}e^5 \otimes e_9 + \frac{6}{907}\sqrt{14433}e^3 \otimes e_8$	{124789, 1289, 13469, 13679, 245678, 2568, 345, 357}
942:2	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{5455}e^{12}, \frac{1}{2433}\sqrt{1769602}e^{34}, \frac{2}{811}\sqrt{31639}e^{16}, \frac{2}{2433}\sqrt{45822}e^{26}$	$(-\frac{114}{811}, \frac{88}{811}, \frac{410}{2433}, \frac{671}{2433}, -\frac{227}{811}, -\frac{26}{811}, \frac{1081}{2433}, -\frac{140}{811}, \frac{62}{811})$ $+\frac{1}{2433}\sqrt{2075082}e^3 \otimes e_5 + \frac{2}{2433}\sqrt{661146}e^4 \otimes e_8$	{12378, 1258, 1346, 14567, 236789, 25689, 349, 4579}
942:2	$0, 0, 0, 0, 0, \frac{4}{599}\sqrt{1398}e^{12}, \frac{2}{599}\sqrt{28426}e^{34}, \frac{6}{599}\sqrt{466}e^{16}, \frac{6}{599}\sqrt{466}e^{26}$	$(\frac{30}{599}, \frac{30}{599}, \frac{183}{599}, -\frac{283}{599}, \frac{366}{599}, \frac{60}{599}, -\frac{100}{599}, \frac{90}{599}, \frac{90}{599})$ $+\frac{14}{599}\sqrt{1398}e^5 \otimes e_7 + \frac{466}{599}e^3 \otimes e_4$	{123789, 124789, 13679, 14679, 37, 47}
942:2	$0, 0, 0, 0, 0, \frac{6}{217}\sqrt{133}e^{12}, \frac{6}{217}\sqrt{133}e^{34}, \frac{2}{217}\sqrt{1938}e^{16}, \frac{1}{217}\sqrt{1767}e^{26}$	$(\frac{16}{217}, -\frac{5}{217}, \frac{8}{217}, -\frac{7}{31}, \frac{12}{31}, \frac{11}{217}, -\frac{41}{217}, \frac{27}{217}, \frac{6}{217})$ $+\frac{19}{217}\sqrt{33}e^1 \otimes e_7 + \frac{5}{217}e^3 \otimes e_4 + \frac{3}{217}\sqrt{285}e^5 \otimes e_8$	{236789, 246789, 3579, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:2	$0, 0, 0, 0, 0, \frac{2}{183}\sqrt{1398}e^{12}, \frac{1}{183}\sqrt{28426}e^{34}, \frac{1}{61}\sqrt{466}e^{16}, \frac{1}{61}\sqrt{466}e^{26}$	$(\frac{5}{61}, \frac{5}{61}, \frac{2}{3}, -\frac{25}{183}, -\frac{37}{61}, \frac{10}{61}, \frac{97}{183}, \frac{15}{61}, \frac{15}{61})$ $+\frac{7}{183}\sqrt{1398}e^3 \otimes e_5$	{123489, 123789, 1245789, 12589, 13469, 13679, 145679, 1569, 34, 37, 457, 5}
942:2	$0, 0, 0, 0, 0, \frac{7}{157}\sqrt{6}e^{12}, \frac{14}{471}\sqrt{157}e^{34}, \frac{56}{471}\sqrt{3}e^{16}, \frac{56}{471}\sqrt{3}e^{26}$	$(-\frac{7}{157}, -\frac{7}{157}, \frac{35}{471}, \frac{35}{471}, \frac{56}{157}, -\frac{14}{157}, \frac{70}{471}, -\frac{21}{157}, -\frac{21}{157})$ $+\frac{7}{471}\sqrt{510}e^5 \otimes e_7 + \frac{7}{471}\sqrt{606}e^3 \otimes e_8 + \frac{7}{471}\sqrt{606}e^4 \otimes e_9$	{12589, 13679, 345}
942:2	$0, 0, 0, 0, 0, \frac{12}{4087}\sqrt{8063}e^{12}, \frac{132}{4087}\sqrt{97}e^{34}, \frac{168}{4087}\sqrt{55}e^{16}, \frac{12}{4087}\sqrt{1595}e^{26}$	$(\frac{486}{4087}, -\frac{465}{4087}, \frac{348}{4087}, -\frac{654}{4087}, \frac{1299}{4087}, \frac{21}{4087}, -\frac{306}{4087}, \frac{507}{4087}, -\frac{444}{4087})$ $+\frac{12}{4087}\sqrt{11022}e^3 \otimes e_9 + \frac{12}{4087}\sqrt{19646}e^1 \otimes e_7 + \frac{12}{4087}\sqrt{9746}e^5 \otimes e_8$	{1289, 1569, 23678, 357}
942:2	$0, 0, 0, 0, 0, \frac{8}{51}\sqrt{17}e^{12}, \frac{8}{51}\sqrt{17}e^{34}, \frac{8}{17}\sqrt{2}e^{16}, \frac{8}{51}\sqrt{3}e^{26}$	$(\frac{16}{51}, -\frac{5}{51}, -\frac{8}{51}, -\frac{8}{51}, \frac{3}{17}, \frac{11}{51}, -\frac{16}{51}, \frac{9}{17}, \frac{2}{17})$ $+\frac{8}{51}\sqrt{42}e^1 \otimes e_7$	{123458, 12348, 1258, 128, 13456, 1346, 156, 16, 2356789, 236789, 3579, 379}
942:3	$0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{6}{1123}\sqrt{24171}e^{13}, \frac{2}{1123}\sqrt{3453}e^{26}, \frac{1}{1123}\sqrt{448890}e^{16} + \frac{1}{1123}\sqrt{877062}e^{23}$	$(\frac{182}{1123}, -\frac{10}{1123}, \frac{364}{1123}, -\frac{787}{1123}, \frac{168}{1123}, \frac{172}{1123}, \frac{546}{1123}, \frac{162}{1123}, \frac{354}{1123})$ $+\frac{1}{1123}\sqrt{2198410}e^3 \otimes e_4$	{12456789, 1246789, 14578, 1478, 2459, 249, 456, 46}
942:3	$0, 0, 0, 0, 0, \frac{132}{685}\sqrt{2}e^{12}, \frac{77}{685}\sqrt{6}e^{13}, \frac{11}{685}\sqrt{354}e^{26}, \frac{11}{685}\sqrt{3}e^{16} + \frac{11}{685}\sqrt{86}e^{23}$	$(-\frac{22}{685}, \frac{11}{137}, -\frac{44}{685}, -\frac{143}{685}, \frac{209}{685}, \frac{33}{685}, -\frac{66}{685}, \frac{88}{685}, \frac{11}{685})$ $+\frac{11}{685}\sqrt{298}e^5 \otimes e_8 + \frac{11}{685}\sqrt{406}e^1 \otimes e_4 + \frac{11}{685}\sqrt{546}e^2 \otimes e_7$	{16789, 2456}
942:3	$0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246}e^{12}, \frac{37}{4565}\sqrt{1434}e^{13}, \frac{37}{415}\sqrt{22}e^{26}, \frac{222}{913}e^{16} + \frac{37}{913}\sqrt{30}e^{23}$	$(-\frac{333}{4565}, \frac{74}{913}, -\frac{666}{4565}, \frac{1776}{4565}, \frac{1073}{4565}, \frac{37}{4565}, -\frac{999}{4565}, \frac{37}{415}, -\frac{296}{4565})$ $+\frac{222}{4565}\sqrt{119}e^2 \otimes e_7 + \frac{37}{913}\sqrt{3}e^4 \otimes e_8 + \frac{37}{4565}\sqrt{1294}e^5 \otimes e_9$	{12358, 3479}
942:3	$0, 0, 0, 0, 0, \frac{3}{1147}\sqrt{35238}e^{12}, \frac{1}{1147}\sqrt{780270}e^{13}, \frac{2}{1147}\sqrt{168639}e^{26}, \frac{1}{1147}\sqrt{541994}e^{16} + \frac{4}{1147}\sqrt{27687}e^{23}$	$(\frac{209}{1147}, -\frac{315}{1147}, \frac{418}{1147}, \frac{162}{1147}, \frac{162}{1147}, -\frac{106}{1147}, \frac{627}{1147}, -\frac{421}{1147}, \frac{103}{1147})$ $+\frac{1}{1147}\sqrt{1652830}e^3 \otimes e_8$	{24589, 2489, 289, 4568, 468, 68}
942:3	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{1317}e^{12}, \frac{1}{626}\sqrt{38193}e^{13}, \frac{1}{313}\sqrt{8341}e^{26}, \frac{3}{626}\sqrt{9658}e^{16} + \frac{4}{313}\sqrt{1317}e^{23}$	$(\frac{9}{626}, -\frac{139}{1252}, \frac{9}{313}, \frac{309}{626}, \frac{775}{1252}, \frac{121}{1252}, \frac{27}{626}, -\frac{65}{313}, -\frac{103}{1252})$ $+\frac{1}{626}\sqrt{278326}e^5 \otimes e_9 + \frac{3}{626}\sqrt{23267}e^4 \otimes e_8$	{1289, 1568, 24679, 457}
942:3	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{2}{25}\sqrt{6}e^{26}, \frac{2}{25}\sqrt{13}e^{16} + \frac{6}{25}e^{23}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{1}{25})$ $+\frac{2}{25}\sqrt{31}e^3 \otimes e_8 + \frac{6}{25}\sqrt{33}e^1 \otimes e_4 + \frac{6}{25}\sqrt{3}e^5 \otimes e_9$	{12789, 15678}
942:3	$0, 0, 0, 0, 0, \frac{7}{327}\sqrt{589}e^{12}, \frac{1}{327}\sqrt{4389}e^{13}, \frac{19}{327}\sqrt{35}e^{26}, \frac{1}{327}\sqrt{12502}e^{16} + \frac{1}{327}\sqrt{3990}e^{23}$	$(\frac{6}{109}, \frac{67}{654}, \frac{12}{109}, -\frac{115}{327}, -\frac{199}{654}, \frac{103}{654}, \frac{18}{109}, \frac{85}{327}, \frac{139}{654})$ $+\frac{1}{327}\sqrt{36442}e^2 \otimes e_5 + \frac{1}{327}\sqrt{40565}e^1 \otimes e_4$	{12389, 13568, 234679, 3457}
942:3	$0, 0, 0, 0, 0, \frac{34}{1817}\sqrt{26}e^{12}, \frac{68}{1817}\sqrt{62}e^{13}, \frac{68}{1817}\sqrt{58}e^{26}, \frac{17}{1817}\sqrt{727}e^{16} + \frac{68}{1817}\sqrt{33}e^{23}$	$(-\frac{51}{1817}, \frac{136}{1817}, -\frac{102}{1817}, -\frac{17}{79}, \frac{510}{1817}, \frac{85}{1817}, -\frac{153}{1817}, \frac{221}{1817}, \frac{34}{1817})$ $+\frac{17}{1817}\sqrt{1049}e^3 \otimes e_4 + \frac{17}{1817}\sqrt{1565}e^2 \otimes e_7 + \frac{17}{1817}\sqrt{753}e^5 \otimes e_8$	{1238, 3579}
942:3	$0, 0, 0, 0, 0, \frac{31}{4685}\sqrt{258}e^{12}, \frac{31}{4685}\sqrt{942}e^{13}, \frac{62}{4685}\sqrt{535}e^{26}, \frac{93}{4685}\sqrt{114}e^{16} + \frac{868}{4685}\sqrt{3}e^{23}$	$(\frac{279}{4685}, -\frac{341}{4685}, \frac{558}{4685}, -\frac{1302}{4685}, \frac{1178}{4685}, -\frac{62}{4685}, \frac{837}{4685}, -\frac{403}{4685}, \frac{217}{4685})$ $+\frac{31}{4685}\sqrt{3678}e^3 \otimes e_8 + \frac{62}{4685}\sqrt{406}e^5 \otimes e_9 + \frac{62}{4685}\sqrt{834}e^2 \otimes e_4$	{23567, 3479}
942:3	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{42}e^{12}, \frac{6}{155}\sqrt{69}e^{13}, \frac{3}{155}\sqrt{258}e^{26}, \frac{3}{155}\sqrt{546}e^{16} + \frac{9}{155}\sqrt{70}e^{23}$	$(-\frac{21}{310}, \frac{33}{620}, -\frac{21}{155}, \frac{153}{310}, \frac{381}{620}, -\frac{9}{620}, -\frac{63}{310}, \frac{6}{155}, -\frac{51}{620})$ $+\frac{3}{155}\sqrt{1434}e^4 \otimes e_7 + \frac{6}{155}\sqrt{471}e^5 \otimes e_9$	{1234568, 13489, 2357, 3679}
942:3	$0, 0, 0, 0, 0, \frac{6}{293}\sqrt{366}e^{12}, \frac{4}{293}\sqrt{1281}e^{13}, \frac{6}{293}\sqrt{2318}e^{26}, \frac{4}{293}\sqrt{915}e^{16} + \frac{2}{293}\sqrt{5307}e^{23}$	$(\frac{27}{293}, -\frac{50}{293}, \frac{54}{293}, \frac{1}{293}, \frac{53}{293}, -\frac{23}{293}, \frac{81}{293}, -\frac{73}{293}, \frac{4}{293})$ $+\frac{24}{293}\sqrt{305}e^4 \otimes e_8$	{12578, 1278, 156789, 16789, 2456, 246, 459, 49}
942:3	$0, 0, 0, 0, 0, \frac{10}{4037}\sqrt{6}e^{12}, \frac{15}{4037}\sqrt{374}e^{13}, \frac{5}{4037}\sqrt{3358}e^{26}, \frac{10}{4037}\sqrt{678}e^{16} + \frac{5}{4037}\sqrt{1362}e^{23}$	$(-\frac{15}{4037}, -\frac{20}{4037}, -\frac{30}{4037}, \frac{300}{4037}, -\frac{25}{4037}, -\frac{35}{4037}, -\frac{45}{4037}, -\frac{5}{367}, -\frac{50}{4037})$ $+\frac{130}{4037}\sqrt{6}e^2 \otimes e_7 + \frac{25}{4037}\sqrt{26}e^5 \otimes e_9 + \frac{30}{4037}\sqrt{113}e^3 \otimes e_8$	{24589, 2589}
942:3	$0, 0, 0, 0, 0, \frac{24}{311}\sqrt{10}e^{12}, \frac{4}{311}\sqrt{618}e^{13}, \frac{4}{311}\sqrt{834}e^{26}, \frac{8}{311}\sqrt{201}e^{16} + \frac{12}{311}\sqrt{170}e^{23}$	$(\frac{22}{311}, \frac{28}{311}, \frac{44}{311}, -\frac{116}{311}, -\frac{100}{311}, \frac{50}{311}, \frac{66}{311}, \frac{78}{311}, \frac{72}{311})$ $+\frac{4}{311}\sqrt{2370}e^3 \otimes e_5 + \frac{4}{311}\sqrt{2658}e^2 \otimes e_4$	{1238, 134689, 2367, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:3	$0, 0, 0, 0, 0, \frac{930}{4157}\sqrt{2}e^{12}, \frac{31}{4157}\sqrt{1298}e^{13}, \frac{31}{4157}\sqrt{894}e^{26},$ $\frac{62}{4157}\sqrt{251}e^{16} + \frac{31}{4157}\sqrt{102}e^{23}$	$(-\frac{155}{4157}, \frac{496}{4157}, -\frac{310}{4157}, -\frac{1116}{4157}, \frac{1147}{4157}, \frac{341}{4157}, -\frac{465}{4157}, \frac{837}{4157}, \frac{186}{4157})$ $+ \frac{248}{4157}\sqrt{47}e^2 \otimes e_7 + \frac{31}{4157}\sqrt{1514}e^5 \otimes e_9 + \frac{62}{4157}\sqrt{753}e^1 \otimes e_4$	{15678, 2469}
942:3	$0, 0, 0, 0, 0, \frac{1}{914}\sqrt{135286}e^{12}, \frac{1}{914}\sqrt{13685}e^{13}, \frac{1}{457}\sqrt{61387}e^{26},$ $\frac{2}{457}\sqrt{4301}e^{16} + \frac{1}{457}\sqrt{11730}e^{23}$	$(\frac{25}{914}, \frac{29}{1828}, \frac{25}{457}, \frac{445}{914}, -\frac{753}{1828}, \frac{79}{1828}, \frac{75}{914}, \frac{27}{457}, \frac{129}{1828})$ $+ \frac{1}{914}\sqrt{275655}e^4 \otimes e_8 + \frac{1}{914}\sqrt{366758}e^2 \otimes e_5$	{12378, 1356789, 2346, 3459}
942:3	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{17563}e^{12}, \frac{6}{751}\sqrt{4053}e^{13}, \frac{2}{751}\sqrt{579}e^{26},$ $\frac{4}{751}\sqrt{4439}e^{16} + \frac{2}{751}\sqrt{193}e^{23}$	$(\frac{91}{751}, -\frac{5}{751}, \frac{182}{751}, -\frac{295}{751}, -\frac{204}{751}, \frac{86}{751}, \frac{273}{751}, \frac{81}{751}, \frac{177}{751})$ $+ \frac{24}{751}\sqrt{386}e^3 \otimes e_5 + \frac{2}{751}\sqrt{73147}e^1 \otimes e_4$	{12579, 1567, 245689, 458}
942:3	$0, 0, 0, 0, 0, \frac{10}{1937}\sqrt{6}e^{12}, \frac{10}{1937}\sqrt{354}e^{13}, \frac{40}{1937}\sqrt{22}e^{26},$ $\frac{5}{1937}\sqrt{1087}e^{16} + \frac{10}{1937}\sqrt{178}e^{23}$	$(-\frac{15}{1937}, -\frac{20}{1937}, -\frac{30}{1937}, \frac{125}{1937}, \frac{150}{1937}, -\frac{35}{1937}, -\frac{45}{1937}, -\frac{55}{1937}, -\frac{50}{1937})$ $+ \frac{25}{1937}e^5 \otimes e_4 + \frac{5}{1937}\sqrt{1781}e^2 \otimes e_7 + \frac{5}{1937}\sqrt{1793}e^3 \otimes e_8$	{2489, 2589}
942:3	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{28}\sqrt{70}e^{13}, \frac{1}{56}\sqrt{518}e^{26},$ $\frac{1}{14}\sqrt{21}e^{16} + \frac{1}{56}\sqrt{14}e^{23}$	$(\frac{5}{56}, -\frac{9}{112}, \frac{5}{28}, -\frac{37}{112}, \frac{5}{56}, \frac{1}{112}, \frac{15}{56}, -\frac{1}{14}, \frac{11}{112})$ $+ \frac{1}{56}\sqrt{658}e^2 \otimes e_4 + \frac{1}{56}\sqrt{770}e^3 \otimes e_8$	{23567, 2367, 34579, 3479}
942:3	$0, 0, 0, 0, 0, \frac{2}{2821}\sqrt{303755}e^{12}, \frac{10}{2821}\sqrt{10981}e^{13}, \frac{2}{2821}\sqrt{217645}e^{26},$ $\frac{4}{2821}\sqrt{14615}e^{16} + \frac{2}{2821}\sqrt{71495}e^{23}$	$(-\frac{103}{2821}, \frac{37}{217}, -\frac{206}{2821}, -\frac{893}{2821}, \frac{44}{403}, \frac{54}{403}, -\frac{309}{2821}, \frac{859}{2821}, \frac{275}{2821})$ $+ \frac{2}{2821}\sqrt{474395}e^1 \otimes e_4 + \frac{8}{2821}\sqrt{32390}e^2 \otimes e_7$	{123589, 12389, 3457, 347}
942:3	$0, 0, 0, 0, 0, \frac{3}{58}\sqrt{62}e^{12}, \frac{1}{29}\sqrt{93}e^{13}, \frac{3}{58}\sqrt{62}e^{26},$ $\frac{1}{29}\sqrt{93}e^{16} + \frac{1}{58}\sqrt{93}e^{23}$	$(\frac{9}{116}, \frac{5}{58}, \frac{9}{58}, 1, -\frac{35}{58}, \frac{19}{116}, \frac{27}{116}, \frac{1}{4}, \frac{7}{29})$ $+ \frac{93}{58}e^4 \otimes e_5$	{124789, 125789, 14678, 15678, 2469, 2569, 4, 5}
942:3	$0, 0, 0, 0, 0, \frac{140}{417}e^{12}, \frac{20}{417}\sqrt{31}e^{13}, \frac{140}{417}e^{26},$ $\frac{20}{417}\sqrt{31}e^{16} + \frac{20}{417}\sqrt{151}e^{23}$	$(\frac{22}{417}, -\frac{6}{139}, \frac{44}{417}, \frac{226}{417}, -\frac{52}{139}, \frac{4}{417}, \frac{22}{139}, -\frac{14}{417}, \frac{26}{417})$ $+ \frac{20}{417}\sqrt{191}e^3 \otimes e_5 + \frac{20}{417}\sqrt{191}e^4 \otimes e_9$	{123468, 1389, 2347, 3679}
942:3	$0, 0, 0, 0, 0, \frac{2}{221}\sqrt{1173}e^{12}, \frac{2}{221}\sqrt{3243}e^{13}, \frac{3}{221}\sqrt{851}e^{26},$ $\frac{3}{221}\sqrt{805}e^{16} + \frac{3}{221}\sqrt{391}e^{23}$	$(\frac{10}{221}, -\frac{59}{442}, \frac{20}{221}, \frac{99}{221}, \frac{35}{442}, -\frac{3}{34}, \frac{30}{221}, -\frac{49}{221}, -\frac{19}{442})$ $+ \frac{1}{221}\sqrt{11247}e^4 \otimes e_7 + \frac{2}{221}\sqrt{4209}e^3 \otimes e_8$	{24589, 2489, 4568, 468}
942:3	$0, 0, 0, 0, 0, \frac{2}{3277}\sqrt{403374}e^{12}, \frac{38}{3277}\sqrt{1702}e^{13}, \frac{8}{3277}\sqrt{46805}e^{26},$ $\frac{2}{3277}\sqrt{26381}e^{16} + \frac{2}{3277}\sqrt{239982}e^{23}$	$(-\frac{304}{3277}, \frac{790}{3277}, -\frac{608}{3277}, \frac{43}{113}, -\frac{455}{3277}, \frac{486}{3277}, -\frac{912}{3277}, \frac{44}{113}, \frac{182}{3277})$ $+ \frac{1702}{3277}e^4 \otimes e_5 + \frac{2}{3277}\sqrt{1727530}e^2 \otimes e_7$	{12348, 12358, 3479, 3579}
942:3	$0, 0, 0, 0, 0, \frac{2}{2869}\sqrt{512670}e^{12}, \frac{4}{2869}\sqrt{78015}e^{13}, \frac{30}{2869}\sqrt{1486}e^{26},$ $\frac{12}{2869}\sqrt{11145}e^{16} + \frac{2}{2869}\sqrt{437627}e^{23}$	$(\frac{251}{2869}, -\frac{218}{2869}, \frac{502}{2869}, \frac{1301}{2869}, -\frac{65}{151}, \frac{33}{2869}, \frac{753}{2869}, -\frac{185}{2869}, \frac{284}{2869})$ $+ \frac{44}{2869}\sqrt{1486}e^4 \otimes e_8 + \frac{56}{2869}\sqrt{1486}e^1 \otimes e_5$	{12389, 1368, 2345679, 3457}
942:3	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78}e^{12}, \frac{3}{95}\sqrt{186}e^{13}, \frac{3}{95}\sqrt{102}e^{26},$ $\frac{3}{95}\sqrt{21}e^{16} + \frac{2}{95}\sqrt{10}e^{23}$	$(\frac{3}{95}, -\frac{12}{95}, \frac{6}{95}, \frac{36}{95}, \frac{21}{95}, -\frac{9}{95}, \frac{9}{95}, -\frac{21}{95}, -\frac{6}{95})$ $+ \frac{3}{95}\sqrt{174}e^4 \otimes e_7 + \frac{6}{95}\sqrt{21}e^5 \otimes e_9 + \frac{9}{95}\sqrt{30}e^3 \otimes e_8$	{2489, 4568}
942:3	$0, 0, 0, 0, 0, \frac{2}{25}e^{12}, \frac{2}{25}\sqrt{13}e^{13}, \frac{2}{25}\sqrt{14}e^{26},$ $\frac{1}{25}\sqrt{42}e^{16} + \frac{4}{25}\sqrt{2}e^{23}$	$(\frac{1}{25}, -\frac{3}{50}, \frac{2}{25}, -\frac{11}{50}, \frac{7}{25}, -\frac{1}{50}, \frac{3}{25}, -\frac{2}{25}, \frac{1}{50})$ $+ \frac{1}{25}\sqrt{42}e^5 \otimes e_7 + \frac{1}{25}\sqrt{58}e^2 \otimes e_4 + \frac{1}{25}\sqrt{86}e^3 \otimes e_8$	{2589, 4568}
942:3	$0, 0, 0, 0, 0, \frac{6}{3133}\sqrt{35238}e^{12}, \frac{2}{3133}\sqrt{780270}e^{13}, \frac{4}{3133}\sqrt{168639}e^{26},$ $\frac{2}{3133}\sqrt{541994}e^{16} + \frac{8}{3133}\sqrt{27687}e^{23}$	$(\frac{418}{3133}, -\frac{630}{3133}, \frac{836}{3133}, \frac{1163}{3133}, -\frac{515}{3133}, -\frac{212}{3133}, \frac{1254}{3133}, -\frac{842}{3133}, \frac{206}{3133})$ $+ \frac{1678}{3133}e^4 \otimes e_5 + \frac{2}{3133}\sqrt{1652830}e^3 \otimes e_8$	{2489, 2589, 468, 568}
942:3	$0, 0, 0, 0, 0, \frac{6}{581}\sqrt{1086}e^{12}, \frac{6}{581}\sqrt{2715}e^{13}, \frac{8}{581}\sqrt{1086}e^{26},$ $\frac{2}{581}\sqrt{15566}e^{16} + \frac{2}{581}\sqrt{15747}e^{23}$	$(\frac{65}{581}, -\frac{69}{581}, \frac{130}{581}, \frac{289}{581}, -\frac{232}{581}, -\frac{4}{581}, \frac{195}{581}, -\frac{73}{581}, \frac{61}{581})$ $+ \frac{2}{581}\sqrt{41449}e^4 \otimes e_8 + \frac{4}{581}\sqrt{13213}e^3 \otimes e_5$	{1245679, 1457, 2589, 568}
942:3	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{3127}e^{12}, \frac{6}{149}\sqrt{177}e^{13}, \frac{2}{149}\sqrt{177}e^{26},$ $\frac{4}{149}\sqrt{767}e^{16} + \frac{2}{149}\sqrt{2183}e^{23}$	$(\frac{17}{149}, \frac{5}{149}, \frac{34}{149}, -\frac{101}{149}, \frac{24}{149}, \frac{22}{149}, \frac{51}{149}, \frac{27}{149}, \frac{39}{149})$ $+ \frac{10}{149}\sqrt{295}e^1 \otimes e_4$	{123589, 12389, 13568, 1368, 2345679, 234679, 3457, 347}
942:3	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{29962}e^{12}, \frac{1}{239}\sqrt{8018}e^{13}, \frac{1}{239}\sqrt{29962}e^{26},$ $\frac{1}{239}\sqrt{8018}e^{16} + \frac{3}{239}\sqrt{2110}e^{23}$	$(\frac{7}{239}, \frac{52}{239}, \frac{14}{239}, -\frac{159}{239}, \frac{40}{239}, \frac{59}{239}, \frac{21}{239}, \frac{111}{239}, \frac{66}{239})$ $+ \frac{1}{239}\sqrt{83978}e^2 \otimes e_4$	{123578, 12378, 13456789, 1346789, 2356, 236, 3459, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:3	$0, 0, 0, 0, 0, \frac{4}{311}\sqrt{834}e^{12}, \frac{8}{311}\sqrt{201}e^{13}, \frac{24}{311}\sqrt{10}e^{26},$ $\frac{4}{311}\sqrt{618}e^{16} + \frac{12}{311}\sqrt{170}e^{23}$	$(-\frac{13}{933}, \frac{28}{311}, -\frac{26}{933}, \frac{490}{933}, -\frac{116}{311}, \frac{71}{933}, -\frac{13}{311}, \frac{155}{933}, \frac{58}{933})$ $+ \frac{4}{311}\sqrt{2370}e^4 \otimes e_9 + \frac{4}{311}\sqrt{2658}e^2 \otimes e_5$	{1289, 14568, 2679, 457}
942:3	$0, 0, 0, 0, 0, \frac{8}{1119}\sqrt{141}e^{12}, \frac{2}{1119}\sqrt{51465}e^{13}, \frac{4}{1119}\sqrt{7755}e^{26},$ $\frac{2}{1119}\sqrt{34827}e^{16} + \frac{2}{373}\sqrt{3995}e^{23}$	$(-\frac{35}{1119}, \frac{59}{373}, -\frac{70}{1119}, -\frac{352}{1119}, \frac{33}{373}, \frac{142}{1119}, -\frac{35}{373}, \frac{319}{1119}, \frac{107}{1119})$ $+ \frac{2}{1119}\sqrt{63591}e^3 \otimes e_4 + \frac{2}{1119}\sqrt{80229}e^2 \otimes e_7$	{12358, 1238, 3579, 379}
942:3	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903}e^{12}, \frac{1}{89}\sqrt{1290}e^{13}, \frac{1}{89}\sqrt{989}e^{26},$ $\frac{1}{89}\sqrt{301}e^{16} + \frac{1}{89}\sqrt{2193}e^{23}$	$(\frac{8}{89}, -\frac{35}{178}, \frac{16}{89}, \frac{83}{178}, \frac{9}{89}, -\frac{19}{178}, \frac{24}{89}, \frac{27}{89}, -\frac{3}{178})$ $+ \frac{1}{89}\sqrt{2795}e^4 \otimes e_9 + \frac{1}{89}\sqrt{4085}e^3 \otimes e_8$	{2589, 289, 4568, 468}
942:3	$0, 0, 0, 0, 0, \frac{20}{3849}\sqrt{6}e^{12}, \frac{20}{3849}\sqrt{354}e^{13}, \frac{80}{3849}\sqrt{22}e^{26},$ $\frac{10}{3849}\sqrt{1087}e^{16} + \frac{20}{3849}\sqrt{178}e^{23}$	$(-\frac{10}{1283}, -\frac{40}{3849}, -\frac{20}{1283}, \frac{275}{3849}, \frac{275}{3849}, -\frac{70}{3849}, -\frac{30}{1283}, -\frac{110}{3849}, -\frac{100}{3849})$ $+ \frac{10}{3849}\sqrt{1781}e^2 \otimes e_7 + \frac{10}{3849}\sqrt{1793}e^3 \otimes e_8$	{24589, 2489, 289}
942:3	$0, 0, 0, 0, 0, \frac{2}{3649}\sqrt{285826}e^{12}, \frac{2}{3649}\sqrt{477365}e^{13}, \frac{4}{3649}\sqrt{206957}e^{26},$ $\frac{2}{3649}\sqrt{383078}e^{16} + \frac{2}{3649}\sqrt{63451}e^{23}$	$(-\frac{271}{3649}, \frac{373}{3649}, -\frac{542}{3649}, \frac{1661}{3649}, \frac{370}{3649}, \frac{102}{3649}, -\frac{813}{3649}, \frac{475}{3649}, -\frac{169}{3649})$ $+ \frac{2}{3649}\sqrt{765563}e^4 \otimes e_8 + \frac{4}{3649}\sqrt{294721}e^2 \otimes e_7$	{12358, 1238, 34579, 3479}
942:3	$0, 0, 0, 0, 0, \frac{96}{2479}e^{12}, \frac{32}{2479}\sqrt{565}e^{13}, \frac{160}{2479}\sqrt{11}e^{26},$ $\frac{32}{2479}\sqrt{287}e^{16} + \frac{32}{2479}\sqrt{645}e^{23}$	$(-\frac{80}{2479}, \frac{272}{2479}, -\frac{160}{2479}, -\frac{672}{2479}, \frac{624}{2479}, \frac{192}{2479}, -\frac{240}{2479}, \frac{464}{2479}, \frac{112}{2479})$ $+ \frac{32}{2479}\sqrt{435}e^5 \otimes e_9 + \frac{32}{2479}\sqrt{861}e^3 \otimes e_4 + \frac{32}{2479}\sqrt{994}e^2 \otimes e_7$	{1457, 2489}
942:3	$0, 0, 0, 0, 0, \frac{8}{333}\sqrt{290}e^{12}, \frac{5}{333}\sqrt{58}e^{13}, \frac{29}{333}\sqrt{10}e^{26},$ $\frac{8}{333}\sqrt{8555}e^{16} + \frac{1}{333}\sqrt{870}e^{23}$	$(\frac{13}{333}, -\frac{4}{333}, \frac{26}{333}, \frac{167}{333}, -\frac{44}{111}, \frac{1}{37}, \frac{13}{111}, \frac{5}{333}, \frac{22}{333})$ $+ \frac{1}{333}\sqrt{38570}e^4 \otimes e_9 + \frac{2}{333}\sqrt{12035}e^1 \otimes e_5$	{1279, 1467, 25689, 458}
942:3	$0, 0, 0, 0, 0, \frac{5}{169}\sqrt{202}e^{12}, \frac{1}{169}\sqrt{3838}e^{13}, \frac{1}{169}\sqrt{7474}e^{26},$ $\frac{1}{169}\sqrt{3434}e^{16} + \frac{1}{169}\sqrt{3030}e^{23}$	$(-\frac{7}{169}, \frac{32}{169}, -\frac{14}{169}, \frac{80}{169}, -\frac{69}{169}, \frac{25}{169}, -\frac{21}{169}, \frac{57}{169}, \frac{18}{169})$ $+ \frac{1}{169}\sqrt{17978}e^2 \otimes e_5 + \frac{2}{169}\sqrt{3030}e^4 \otimes e_7$	{12348, 1345689, 2367, 3579}
942:3	$0, 0, 0, 0, 0, \frac{14}{3501}\sqrt{1610}e^{12}, \frac{14}{3501}\sqrt{20654}e^{13}, \frac{14}{3501}\sqrt{20010}e^{26},$ $\frac{28}{1167}\sqrt{230}e^{16} + \frac{70}{3501}\sqrt{299}e^{23}$	$(-\frac{35}{1167}, -\frac{112}{3501}, -\frac{70}{1167}, \frac{1939}{3501}, \frac{1925}{3501}, \frac{217}{3501}, -\frac{35}{3501}, -\frac{329}{3501}, -\frac{322}{3501})$ $+ \frac{14}{3501}\sqrt{35926}e^5 \otimes e_8 + \frac{28}{3501}\sqrt{9062}e^4 \otimes e_7$	{1234569, 1345, 23789, 3678}
942:3	$0, 0, 0, 0, 0, \frac{2}{1123}\sqrt{3453}e^{12}, \frac{1}{1123}\sqrt{448890}e^{13}, \frac{1}{1123}\sqrt{453494}e^{26},$ $\frac{6}{1123}\sqrt{24171}e^{16} + \frac{1}{1123}\sqrt{877062}e^{23}$	$(-\frac{9}{1123}, -\frac{10}{1123}, -\frac{18}{1123}, 1, \frac{168}{1123}, -\frac{19}{1123}, -\frac{27}{1123}, -\frac{29}{1123}, -\frac{28}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_9$	{12345678, 1234678, 135789, 13789, 234, 2345, 3569, 369}
942:3	$0, 0, 0, 0, 0, \frac{24}{3221}\sqrt{2923}e^{12}, \frac{6}{3221}\sqrt{70942}e^{13}, \frac{12}{3221}\sqrt{2607}e^{26},$ $\frac{12}{3221}\sqrt{10823}e^{16} + \frac{6}{3221}\sqrt{48427}e^{23}$	$(\frac{23}{3221}, \frac{220}{3221}, \frac{46}{3221}, \frac{1491}{3221}, -\frac{1399}{3221}, \frac{243}{3221}, \frac{69}{3221}, \frac{463}{3221}, \frac{266}{3221})$ $+ \frac{12}{3221}\sqrt{22910}e^4 \otimes e_7 + \frac{6}{3221}\sqrt{136670}e^1 \otimes e_5$	{123489, 13468, 235679, 357}
942:3	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718}e^{12}, \frac{2}{287}\sqrt{20822}e^{13}, \frac{3}{287}\sqrt{2513}e^{26},$ $\frac{2}{287}\sqrt{19027}e^{16} + \frac{1}{287}\sqrt{13283}e^{23}$	$(-\frac{24}{287}, \frac{15}{82}, -\frac{48}{287}, 1, \frac{99}{574}, \frac{57}{574}, -\frac{72}{287}, \frac{81}{287}, \frac{9}{574})$ $+ \frac{5}{287}\sqrt{6821}e^4 \otimes e_7$	{1234569, 123469, 134, 1345, 235789, 23789, 35678, 3678}
942:3	$0, 0, 0, 0, 0, \frac{20}{331}\sqrt{39}e^{12}, \frac{80}{331}\sqrt{6}e^{13}, \frac{30}{331}\sqrt{3}e^{26},$ $\frac{10}{331}\sqrt{165}e^{16} + \frac{90}{331}\sqrt{2}e^{23}$	$(\frac{5}{331}, \frac{15}{331}, \frac{10}{331}, \frac{165}{331}, -\frac{140}{331}, \frac{20}{331}, \frac{15}{331}, \frac{35}{331}, \frac{25}{331})$ $+ \frac{10}{331}\sqrt{417}e^4 \otimes e_7 + \frac{10}{331}\sqrt{498}e^3 \otimes e_5$	{125679, 157, 24589, 4568}
942:3	$0, 0, 0, 0, 0, \frac{1}{1213}\sqrt{403374}e^{12}, \frac{19}{1213}\sqrt{1702}e^{13}, \frac{4}{1213}\sqrt{46805}e^{26},$ $\frac{4}{1213}\sqrt{26381}e^{16} + \frac{1}{1213}\sqrt{239982}e^{23}$	$(-\frac{152}{1213}, \frac{395}{1213}, -\frac{304}{1213}, \frac{198}{1213}, \frac{198}{1213}, \frac{243}{1213}, -\frac{456}{1213}, \frac{638}{1213}, \frac{91}{1213})$ $+ \frac{1}{1213}\sqrt{1727530}e^2 \otimes e_7$	{123458, 12348, 1238, 34579, 3479, 379}
942:4	$0, 0, 0, 0, 0, \frac{3}{1313}\sqrt{11414}e^{12}, \frac{1}{1313}\sqrt{478510}e^{13}, \frac{17}{1313}\sqrt{878}e^{16},$ $\frac{1}{1313}\sqrt{390710}e^{26} + \frac{10}{1313}\sqrt{1317}e^{34}$	$(-\frac{250}{1313}, \frac{334}{1313}, \frac{145}{1313}, \frac{21}{101}, -\frac{294}{1313}, \frac{84}{1313}, -\frac{105}{1313}, -\frac{166}{1313}, \frac{418}{1313})$ $+ \frac{1}{1313}\sqrt{366126}e^3 \otimes e_5 + \frac{1}{1313}\sqrt{678694}e^2 \otimes e_7$	{12349, 156789, 2456, 378}
942:4	$0, 0, 0, 0, 0, \frac{30}{1813}\sqrt{173}e^{12}, \frac{30}{1813}\sqrt{398}e^{13}, \frac{30}{1813}\sqrt{109}e^{16},$ $\frac{30}{1813}\sqrt{489}e^{26} + \frac{30}{1813}\sqrt{57}e^{34}$	$(-\frac{300}{1813}, \frac{255}{1813}, \frac{15}{259}, \frac{15}{259}, \frac{660}{1813}, -\frac{45}{1813}, -\frac{195}{1813}, -\frac{345}{1813}, \frac{30}{259})$ $+ \frac{30}{1813}\sqrt{398}e^3 \otimes e_8 + \frac{30}{1813}\sqrt{498}e^5 \otimes e_9 + \frac{30}{1813}\sqrt{755}e^2 \otimes e_7$	{1239, 146789}
942:4	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{629}e^{12}, \frac{2}{361}\sqrt{6734}e^{13}, \frac{2}{361}\sqrt{3737}e^{16},$ $\frac{2}{361}\sqrt{5365}e^{26} + \frac{2}{361}\sqrt{3737}e^{34}$	$(-\frac{74}{361}, \frac{71}{361}, \frac{71}{361}, -\frac{3}{361}, \frac{24}{361}, -\frac{3}{361}, -\frac{3}{361}, -\frac{77}{361}, \frac{68}{361})$ $+ \frac{16}{361}\sqrt{74}e^3 \otimes e_4 + \frac{2}{361}\sqrt{7733}e^2 \otimes e_7$	{2456, 246, 3578, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:4	$0, 0, 0, 0, 0, \frac{16}{1639}\sqrt{1749}e^{12}, \frac{92}{1639}\sqrt{106}e^{13}, \frac{424}{1639}\sqrt{2}e^{16},$ $\frac{4}{1639}\sqrt{65402}e^{26} + \frac{424}{1639}\sqrt{3}e^{34}$	$(-\frac{389}{1639}, \frac{40}{149}, -\frac{19}{1639}, \frac{510}{1639}, \frac{510}{1639}, \frac{51}{1639}, -\frac{408}{1639}, -\frac{338}{1639}, \frac{491}{1639})$ $+\frac{424}{1639}\sqrt{3}e^5 \otimes e_8 + \frac{4}{1639}\sqrt{119674}e^2 \otimes e_7$	{123459, 16789, 2456, 378}
942:4	$0, 0, 0, 0, 0, \frac{6}{571}\sqrt{646}e^{12}, \frac{2}{571}\sqrt{49742}e^{13}, \frac{2}{571}\sqrt{4845}e^{16},$ $\frac{6}{571}\sqrt{323}e^{26} + \frac{2}{571}\sqrt{45866}e^{34}$	$(-\frac{21}{571}, \frac{127}{571}, \frac{275}{571}, -\frac{42}{571}, -\frac{371}{571}, \frac{106}{571}, \frac{254}{571}, \frac{85}{571}, \frac{233}{571})$ $+\frac{2}{571}\sqrt{152133}e^3 \otimes e_5$	{123689, 12456789, 139, 14579, 23478, 258, 3467, 56}
942:4	$0, 0, 0, 0, 0, \frac{30}{2809}\sqrt{897}e^{12}, \frac{90}{2809}\sqrt{91}e^{13}, \frac{40}{2809}\sqrt{1105}e^{16},$ $\frac{30}{2809}\sqrt{143}e^{26} + \frac{20}{2809}\sqrt{3302}e^{34}$	$(-\frac{118}{2809}, \frac{347}{2809}, -\frac{185}{2809}, \frac{761}{2809}, -\frac{768}{2809}, \frac{229}{2809}, -\frac{303}{2809}, \frac{111}{2809}, \frac{576}{2809})$ $+\frac{10}{2809}\sqrt{19669}e^4 \otimes e_8 + \frac{20}{2809}\sqrt{3354}e^1 \otimes e_5$	{128, 13467, 235689, 4579}
942:4	$0, 0, 0, 0, 0, \frac{3}{1193}\sqrt{85098}e^{12}, \frac{2}{1193}\sqrt{76370}e^{13}, \frac{2}{1193}\sqrt{204017}e^{16},$ $\frac{1}{1193}\sqrt{150558}e^{26} + \frac{4}{1193}\sqrt{6546}e^{34}$	$(\frac{328}{1193}, -\frac{67}{1193}, \frac{27}{1193}, \frac{167}{1193}, -\frac{763}{1193}, \frac{261}{1193}, \frac{355}{1193}, \frac{589}{1193}, \frac{194}{1193})$ $+\frac{2}{1193}\sqrt{533499}e^1 \otimes e_5$	{12348, 1278, 1346, 167, 2356789, 245689, 3579, 459}
942:4	$0, 0, 0, 0, 0, \frac{2}{3097}\sqrt{251482}e^{12}, \frac{60}{3097}\sqrt{781}e^{13}, \frac{14}{3097}\sqrt{4686}e^{16},$ $\frac{4}{3097}\sqrt{16401}e^{26} + \frac{2}{3097}\sqrt{171039}e^{34}$	$(\frac{350}{3097}, -\frac{79}{3097}, \frac{877}{3097}, -\frac{685}{3097}, -\frac{1212}{3097}, \frac{271}{3097}, \frac{1227}{3097}, \frac{621}{3097}, \frac{192}{3097})$ $+\frac{18}{3097}\sqrt{14839}e^1 \otimes e_5 + \frac{2}{3097}\sqrt{961411}e^3 \otimes e_4$	{235678, 24568, 357, 45}
942:4	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{55}e^{12}, \frac{2}{19}\sqrt{22}e^{13}, \frac{1}{19}\sqrt{55}e^{16},$ $\frac{1}{19}e^{26} + \frac{1}{19}\sqrt{55}e^{34}$	$(-\frac{2}{19}, \frac{7}{38}, \frac{8}{19}, -\frac{3}{19}, -\frac{15}{38}, \frac{3}{38}, \frac{6}{19}, -\frac{1}{38}, \frac{5}{19})$ $+\frac{1}{19}\sqrt{165}e^3 \otimes e_4 + \frac{1}{19}\sqrt{209}e^2 \otimes e_5$	{2367, 246, 3578, 458}
942:4	$0, 0, 0, 0, 0, \frac{2}{15}e^{12}, \frac{1}{3}\sqrt{2}e^{13}, \frac{1}{15}\sqrt{30}e^{16},$ $\frac{2}{15}\sqrt{10}e^{26} + \frac{2}{15}\sqrt{7}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{1}{15}\sqrt{34}e^3 \otimes e_4 + \frac{1}{15}\sqrt{6}e^5 \otimes e_8 + \frac{2}{15}\sqrt{14}e^2 \otimes e_7$	{246, 3578}
942:4	$0, 0, 0, 0, 0, \frac{2}{1139}\sqrt{94323}e^{12}, \frac{1}{1139}\sqrt{576874}e^{13}, \frac{1}{1139}\sqrt{1380670}e^{16},$ $\frac{1}{1139}\sqrt{451110}e^{26} + \frac{1}{1139}\sqrt{527662}e^{34}$	$(-\frac{229}{1139}, \frac{230}{1139}, \frac{13}{67}, \frac{10}{1139}, 1, \frac{1}{1139}, -\frac{8}{1139}, -\frac{228}{1139}, \frac{231}{1139})$ $+\frac{12}{1139}\sqrt{17771}e^5 \otimes e_8$	{123478, 128, 134567, 156, 23689, 246789, 359, 4579}
942:4	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{949}e^{12}, \frac{1}{77}\sqrt{146}e^{13}, \frac{1}{77}\sqrt{730}e^{16},$ $\frac{1}{77}\sqrt{4234}e^{26} + \frac{1}{77}\sqrt{730}e^{34}$	$(-\frac{1}{11}, \frac{2}{7}, \frac{19}{77}, \frac{18}{77}, -\frac{51}{77}, \frac{15}{77}, \frac{12}{77}, \frac{8}{77}, \frac{37}{77})$ $+\frac{8}{77}\sqrt{146}e^2 \otimes e_5$	{123479, 129, 13456789, 15689, 236, 2467, 358, 4578}
942:4	$0, 0, 0, 0, 0, \frac{2}{389}\sqrt{1974}e^{12}, \frac{1}{389}\sqrt{19082}e^{13}, \frac{1}{389}\sqrt{95410}e^{16},$ $\frac{2}{389}\sqrt{1974}e^{26} + \frac{1}{389}\sqrt{95410}e^{34}$	$(-\frac{121}{389}, \frac{128}{389}, \frac{215}{389}, -\frac{80}{389}, \frac{65}{389}, \frac{7}{389}, \frac{94}{389}, -\frac{114}{389}, \frac{135}{389})$ $+\frac{18}{389}\sqrt{658}e^3 \otimes e_8$	{12578, 1278, 13456, 1346, 245689, 24689, 3579, 379}
942:4	$0, 0, 0, 0, 0, \frac{29}{1813}\sqrt{138}e^{12}, \frac{2}{1813}\sqrt{28681}e^{13}, \frac{2}{1813}\sqrt{172753}e^{16},$ $\frac{2}{1813}\sqrt{122061}e^{26} + \frac{1}{1813}\sqrt{1007170}e^{34}$	$(-\frac{344}{1813}, \frac{454}{1813}, \frac{433}{1813}, \frac{131}{1813}, -\frac{536}{1813}, \frac{110}{1813}, \frac{89}{1813}, -\frac{234}{1813}, \frac{564}{1813})$ $+\frac{3}{1813}\sqrt{105386}e^4 \otimes e_5 + \frac{3}{1813}\sqrt{137402}e^3 \otimes e_8$	{1258, 13467, 246789, 359}
942:4	$0, 0, 0, 0, 0, \frac{160}{3179}\sqrt{51}e^{12}, \frac{800}{3179}\sqrt{3}e^{13}, \frac{32}{3179}\sqrt{1446}e^{16},$ $\frac{96}{3179}\sqrt{57}e^{26} + \frac{32}{3179}\sqrt{1191}e^{34}$	$(\frac{368}{3179}, \frac{112}{3179}, -\frac{656}{3179}, \frac{1248}{3179}, -\frac{1168}{3179}, \frac{480}{3179}, -\frac{288}{3179}, \frac{848}{3179}, \frac{592}{3179})$ $+\frac{32}{3179}\sqrt{3837}e^4 \otimes e_7 + \frac{32}{3179}\sqrt{4602}e^1 \otimes e_5$	{12348, 1278, 1346, 167, 2356789, 245689, 3579, 459}
942:4	$0, 0, 0, 0, 0, \frac{160}{3179}\sqrt{51}e^{12}, \frac{800}{3179}\sqrt{3}e^{13}, \frac{32}{3179}\sqrt{1446}e^{16},$ $\frac{96}{3179}\sqrt{57}e^{26} + \frac{32}{3179}\sqrt{1191}e^{34}$	$(\frac{368}{3179}, \frac{112}{3179}, -\frac{656}{3179}, \frac{1248}{3179}, -\frac{1168}{3179}, \frac{480}{3179}, -\frac{288}{3179}, \frac{848}{3179}, \frac{592}{3179})$ $-\frac{32}{3179}\sqrt{3837}e^4 \otimes e_7 + \frac{32}{3179}\sqrt{4602}e^1 \otimes e_5$	{12348, 1278, 1346, 167, 2356789, 245689, 3579, 459}
942:4	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{4558}e^{13}, \frac{106}{185}e^{16},$ $\frac{2}{185}\sqrt{5141}e^{26} + \frac{106}{185}e^{34}$	$(-\frac{42}{185}, \frac{11}{37}, -\frac{9}{185}, \frac{77}{185}, \frac{24}{185}, \frac{13}{185}, -\frac{51}{185}, -\frac{29}{185}, \frac{68}{185})$ $+\frac{2}{185}\sqrt{8533}e^2 \otimes e_7$	{123459, 12349, 156789, 16789, 2456, 246, 3578, 378}
942:4	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{30}e^{12}, \frac{2}{31}\sqrt{6}e^{13}, \frac{3}{31}\sqrt{6}e^{16},$ $\frac{1}{31}\sqrt{14}e^{26} + \frac{3}{31}\sqrt{6}e^{34}$	$(\frac{3}{62}, -\frac{1}{31}, -\frac{9}{62}, \frac{4}{31}, \frac{3}{31}, \frac{1}{62}, -\frac{3}{31}, \frac{2}{31}, -\frac{1}{62})$ $+\frac{1}{31}\sqrt{58}e^4 \otimes e_8 + \frac{3}{31}\sqrt{6}e^1 \otimes e_9$	{1258, 128, 134567, 13467, 235689, 23689, 4579, 479}
942:4	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{30}e^{12}, \frac{2}{31}\sqrt{6}e^{13}, \frac{3}{31}\sqrt{6}e^{16},$ $\frac{1}{31}\sqrt{14}e^{26} + \frac{3}{31}\sqrt{6}e^{34}$	$(\frac{3}{62}, -\frac{1}{31}, -\frac{9}{62}, \frac{4}{31}, \frac{3}{31}, \frac{1}{62}, -\frac{3}{31}, \frac{2}{31}, -\frac{1}{62})$ $+\frac{1}{31}\sqrt{58}e^4 \otimes e_8 - \frac{3}{31}\sqrt{6}e^1 \otimes e_9$	{1258, 128, 134567, 13467, 235689, 23689, 4579, 479}
942:4	$0, 0, 0, 0, 0, \frac{30}{2809}\sqrt{897}e^{12}, \frac{10}{2809}\sqrt{12298}e^{13}, \frac{30}{2809}\sqrt{221}e^{16},$ $\frac{10}{2809}\sqrt{10517}e^{26} + \frac{10}{2809}\sqrt{6461}e^{34}$	$(-\frac{118}{2809}, \frac{347}{2809}, -\frac{185}{2809}, \frac{761}{2809}, -\frac{768}{2809}, \frac{229}{2809}, -\frac{303}{2809}, \frac{111}{2809}, \frac{576}{2809})$ $+\frac{10}{2809}\sqrt{19669}e^2 \otimes e_7 + \frac{20}{2809}\sqrt{3354}e^1 \otimes e_5$	{12349, 16789, 2456, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:4	$0, 0, 0, 0, 0, \frac{30}{323}\sqrt{15}e^{12}, \frac{39}{323}\sqrt{30}e^{13}, \frac{3}{323}\sqrt{2010}e^{16},$ $\frac{9}{323}\sqrt{170}e^{26} + \frac{3}{323}\sqrt{2010}e^{34}$	$(-\frac{33}{323}, \frac{18}{323}, \frac{69}{323}, -\frac{66}{323}, \frac{9}{17}, -\frac{15}{323}, \frac{36}{323}, -\frac{48}{323}, \frac{3}{323})$ $+ \frac{12}{323}\sqrt{285}e^3 \otimes e_4 + \frac{12}{323}\sqrt{285}e^5 \otimes e_7$	{123568, 124678, 135, 147}
942:4	$0, 0, 0, 0, 0, \frac{16}{1639}\sqrt{1749}e^{12}, \frac{92}{1639}\sqrt{106}e^{13}, \frac{424}{1639}\sqrt{3}e^{16},$ $\frac{4}{1639}\sqrt{65402}e^{26} + \frac{424}{1639}\sqrt{2}e^{34}$	$(-\frac{283}{1639}, \frac{40}{149}, -\frac{125}{1639}, \frac{722}{1639}, -\frac{126}{1639}, \frac{157}{1639}, -\frac{408}{1639}, -\frac{126}{1639}, \frac{597}{1639})$ $+ \frac{424}{1639}\sqrt{3}e^4 \otimes e_5 + \frac{4}{1639}\sqrt{119674}e^2 \otimes e_7$	{12349, 156789, 246, 3578}
942:4	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{37}\sqrt{159}e^{13}, \frac{12}{185}\sqrt{159}e^{16},$ $\frac{16}{185}\sqrt{53}e^{26} + \frac{12}{185}\sqrt{159}e^{34}$	$(-\frac{42}{185}, \frac{11}{37}, -\frac{9}{185}, \frac{77}{185}, \frac{24}{185}, \frac{13}{185}, -\frac{51}{185}, -\frac{29}{185}, \frac{68}{185})$ $+ \frac{2}{185}\sqrt{8533}e^4 \otimes e_8$	{1258, 128, 134567, 13467, 235689, 23689, 4579, 479}
942:4	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{23}e^{12}, \frac{3}{19}\sqrt{46}e^{13}, \frac{1}{19}\sqrt{138}e^{16},$ $\frac{1}{19}\sqrt{138}e^{26} + \frac{1}{19}\sqrt{138}e^{34}$	$(-\frac{1}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{6}{19}, 1, \frac{1}{19}, -\frac{4}{19}, 0, \frac{3}{19})$ $+ \frac{4}{19}\sqrt{46}e^5 \otimes e_7$	{123568, 124678, 135, 147, 234789, 2589, 34679, 569}
942:4	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{6771}e^{12}, \frac{4}{527}\sqrt{4773}e^{13}, \frac{10}{527}\sqrt{111}e^{16},$ $\frac{18}{527}\sqrt{185}e^{26} + \frac{10}{527}\sqrt{111}e^{34}$	$(-\frac{148}{527}, \frac{159}{527}, \frac{5}{31}, \frac{5}{31}, \frac{60}{527}, \frac{11}{527}, -\frac{63}{527}, -\frac{137}{527}, \frac{10}{31})$ $+ \frac{2}{527}\sqrt{32745}e^2 \otimes e_7 + \frac{4}{527}\sqrt{4773}e^3 \otimes e_8$	{123459, 12349, 156789, 16789}
942:4	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{482}e^{12}, \frac{4}{323}\sqrt{1446}e^{13}, \frac{2}{323}\sqrt{5302}e^{16},$ $\frac{1}{323}\sqrt{723}e^{26} + \frac{1}{323}\sqrt{1687}e^{34}$	$(-\frac{52}{323}, \frac{83}{646}, \frac{8}{19}, -\frac{105}{323}, \frac{21}{38}, -\frac{21}{646}, \frac{84}{323}, -\frac{125}{646}, \frac{31}{323})$ $+ \frac{1}{19}\sqrt{241}e^3 \otimes e_4 + \frac{1}{323}\sqrt{68685}e^5 \otimes e_8$	{2357, 245, 3678, 468}
942:4	$0, 0, 0, 0, 0, \frac{22}{2785}\sqrt{1299}e^{12}, \frac{4}{2785}\sqrt{86167}e^{13}, \frac{2}{2785}\sqrt{252439}e^{16},$ $\frac{2}{2785}\sqrt{526961}e^{26} + \frac{2}{2785}\sqrt{122539}e^{34}$	$(-\frac{312}{2785}, \frac{61}{557}, -\frac{249}{2785}, \frac{547}{2785}, \frac{1164}{2785}, -\frac{7}{2785}, -\frac{561}{2785}, -\frac{319}{2785}, \frac{298}{2785})$ $+ \frac{12}{557}\sqrt{433}e^5 \otimes e_9 + \frac{2}{2785}\sqrt{701893}e^2 \otimes e_7$	{12349, 16789, 2456, 3578}
942:4	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{23}e^{12}, \frac{3}{19}\sqrt{46}e^{13}, \frac{1}{19}\sqrt{138}e^{16},$ $\frac{1}{19}\sqrt{138}e^{26} + \frac{1}{19}\sqrt{138}e^{34}$	$(-\frac{1}{19}, \frac{2}{19}, \frac{13}{19}, -\frac{10}{19}, \frac{3}{19}, \frac{1}{19}, \frac{12}{19}, 0, \frac{3}{19})$ $+ \frac{4}{19}\sqrt{46}e^3 \otimes e_4$	{123568, 12368, 1245678, 124678, 13, 135, 1457, 147}
942:4	$0, 0, 0, 0, 0, \frac{10}{507}\sqrt{39}e^{12}, \frac{10}{507}\sqrt{303}e^{13}, \frac{45}{169}e^{16},$ $\frac{10}{507}\sqrt{291}e^{26} + \frac{10}{507}\sqrt{138}e^{34}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{20}{169}, -\frac{5}{169}, \frac{40}{169}, -\frac{5}{169}, -\frac{5}{169}, -\frac{30}{169}, \frac{15}{169})$ $+ \frac{5}{507}\sqrt{59}e^5 \otimes e_9 + \frac{5}{507}\sqrt{1491}e^2 \otimes e_7 + \frac{5}{507}\sqrt{831}e^3 \otimes e_4$	{2456, 3578}
942:4	$0, 0, 0, 0, 0, \frac{3}{1313}\sqrt{11414}e^{12}, \frac{2}{1313}\sqrt{50046}e^{13}, \frac{22}{1313}\sqrt{878}e^{16},$ $\frac{4}{1313}\sqrt{17999}e^{26} + \frac{1}{1313}\sqrt{546994}e^{34}$	$(-\frac{250}{1313}, \frac{334}{1313}, \frac{145}{1313}, \frac{21}{101}, -\frac{294}{1313}, \frac{84}{1313}, -\frac{105}{1313}, -\frac{166}{1313}, \frac{418}{1313})$ $+ \frac{1}{1313}\sqrt{366126}e^3 \otimes e_5 + \frac{1}{1313}\sqrt{678694}e^4 \otimes e_8$	{1258, 13467, 23689, 4579}
942:4	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{438}e^{12}, \frac{2}{125}\sqrt{114}e^{13}, \frac{1}{125}\sqrt{798}e^{16},$ $\frac{1}{125}\sqrt{246}e^{26} + \frac{1}{125}\sqrt{798}e^{34}$	$(\frac{13}{250}, -\frac{3}{125}, -\frac{31}{250}, \frac{16}{125}, -\frac{3}{125}, \frac{7}{250}, -\frac{9}{125}, \frac{2}{25}, \frac{1}{250})$ $+ \frac{1}{125}\sqrt{834}e^4 \otimes e_8 - \frac{3}{125}\sqrt{78}e^1 \otimes e_9 + \frac{8}{125}\sqrt{3}e^5 \otimes e_7$	{128, 134567, 23689, 4579}
942:4	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{438}e^{12}, \frac{2}{125}\sqrt{114}e^{13}, \frac{1}{125}\sqrt{798}e^{16},$ $\frac{1}{125}\sqrt{246}e^{26} + \frac{1}{125}\sqrt{798}e^{34}$	$(\frac{13}{250}, -\frac{3}{125}, -\frac{31}{250}, \frac{16}{125}, -\frac{3}{125}, \frac{7}{250}, -\frac{9}{125}, \frac{2}{25}, \frac{1}{250})$ $+ \frac{1}{125}\sqrt{834}e^4 \otimes e_8 + \frac{3}{125}\sqrt{78}e^1 \otimes e_9 + \frac{8}{125}\sqrt{3}e^5 \otimes e_7$	{128, 134567, 23689, 4579}
942:4	$0, 0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{462}e^{13}, \frac{3}{331}\sqrt{2310}e^{16},$ $\frac{6}{331}\sqrt{231}e^{26} + \frac{3}{331}\sqrt{2310}e^{34}$	$(-\frac{78}{331}, \frac{99}{331}, \frac{132}{331}, -\frac{12}{331}, -\frac{90}{331}, \frac{21}{331}, \frac{54}{331}, -\frac{57}{331}, \frac{120}{331})$ $+ \frac{21}{331}\sqrt{114}e^2 \otimes e_5 + \frac{3}{331}\sqrt{6510}e^3 \otimes e_8$	{124789, 13569, 268, 3457}
942:4	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{195}e^{12}, \frac{36}{2951}\sqrt{435}e^{13}, \frac{72}{2951}\sqrt{435}e^{16},$ $\frac{36}{2951}\sqrt{849}e^{26} + \frac{108}{2951}\sqrt{203}e^{34}$	$(-\frac{450}{2951}, \frac{558}{2951}, -\frac{414}{2951}, \frac{1080}{2951}, \frac{1602}{2951}, \frac{108}{2951}, -\frac{864}{2951}, -\frac{342}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^5 \otimes e_8 - \frac{36}{2951}\sqrt{4047}e^4 \otimes e_7$	{12348, 1278, 13456, 1567, 236789, 24689, 3579, 459}
942:4	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{195}e^{12}, \frac{36}{2951}\sqrt{435}e^{13}, \frac{72}{2951}\sqrt{435}e^{16},$ $\frac{36}{2951}\sqrt{849}e^{26} + \frac{108}{2951}\sqrt{203}e^{34}$	$(-\frac{450}{2951}, \frac{558}{2951}, -\frac{414}{2951}, \frac{1080}{2951}, \frac{1602}{2951}, \frac{108}{2951}, -\frac{864}{2951}, -\frac{342}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^5 \otimes e_8 + \frac{36}{2951}\sqrt{4047}e^4 \otimes e_7$	{12348, 1278, 13456, 1567, 236789, 24689, 3579, 459}
942:4	$0, 0, 0, 0, 0, \frac{2}{1139}\sqrt{94323}e^{12}, \frac{1}{1139}\sqrt{576874}e^{13}, \frac{1}{1139}\sqrt{527662}e^{16},$ $\frac{1}{1139}\sqrt{451110}e^{26} + \frac{1}{1139}\sqrt{1380670}e^{34}$	$(\frac{83}{1139}, \frac{230}{1139}, -\frac{91}{1139}, \frac{634}{1139}, -\frac{733}{1139}, \frac{313}{1139}, -\frac{8}{1139}, \frac{396}{1139}, \frac{543}{1139})$ $+ \frac{12}{1139}\sqrt{17771}e^4 \otimes e_5$	{123478, 1258, 13467, 156, 235689, 246789, 359, 479}
942:4	$0, 0, 0, 0, 0, \frac{16}{437}\sqrt{105}e^{12}, \frac{8}{437}\sqrt{870}e^{13}, \frac{4}{437}\sqrt{6090}e^{16},$ $\frac{8}{437}\sqrt{885}e^{26} + \frac{4}{437}\sqrt{6090}e^{34}$	$(-\frac{91}{437}, \frac{6}{23}, -\frac{35}{437}, \frac{172}{437}, \frac{6}{23}, \frac{1}{19}, -\frac{126}{437}, -\frac{68}{437}, \frac{137}{437})$ $+ \frac{4}{437}\sqrt{9690}e^4 \otimes e_8 + \frac{8}{437}\sqrt{465}e^5 \otimes e_7$	{1258, 13467, 235689, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:4	$0, 0, 0, 0, 0, \frac{4}{1201}\sqrt{3621e^{12}}, \frac{8}{1201}\sqrt{323e^{13}}, \frac{8}{1201}\sqrt{1615e^{16}},$ $\frac{4}{1201}\sqrt{255e^{26}} + \frac{8}{1201}\sqrt{1615e^{34}}$	$(\frac{46}{1201}, -\frac{68}{1201}, \frac{160}{1201}, -\frac{250}{1201}, \frac{130}{1201}, -\frac{22}{1201}, \frac{206}{1201}, \frac{24}{1201}, -\frac{90}{1201})$ $+ \frac{12}{1201}\sqrt{1105e^1} \otimes e_9 + \frac{36}{1201}\sqrt{102e^3} \otimes e_8$	{12578, 1278, 13456, 1346, 245689, 24689, 3579, 379}
942:4	$0, 0, 0, 0, 0, \frac{4}{1201}\sqrt{3621e^{12}}, \frac{8}{1201}\sqrt{323e^{13}}, \frac{8}{1201}\sqrt{1615e^{16}},$ $\frac{4}{1201}\sqrt{255e^{26}} + \frac{8}{1201}\sqrt{1615e^{34}}$	$(\frac{46}{1201}, -\frac{68}{1201}, \frac{160}{1201}, -\frac{250}{1201}, \frac{130}{1201}, -\frac{22}{1201}, \frac{206}{1201}, \frac{24}{1201}, -\frac{90}{1201})$ $- \frac{12}{1201}\sqrt{1105e^1} \otimes e_9 + \frac{36}{1201}\sqrt{102e^3} \otimes e_8$	{12578, 1278, 13456, 1346, 245689, 24689, 3579, 379}
942:4	$0, 0, 0, 0, 0, \frac{44}{3563}\sqrt{519e^{12}}, \frac{44}{3563}\sqrt{353e^{13}}, \frac{1100}{3563}\sqrt{2e^{16}},$ $\frac{264}{3563}\sqrt{15e^{26}} + \frac{44}{509}\sqrt{15e^{34}}$	$(-\frac{212}{3563}, \frac{386}{3563}, \frac{930}{3563}, -\frac{370}{3563}, -\frac{1180}{3563}, \frac{174}{3563}, \frac{718}{3563}, -\frac{38}{3563}, \frac{80}{509})$ $+ \frac{44}{3563}\sqrt{1545e^1} \otimes e_5 + \frac{44}{3563}\sqrt{1653e^3} \otimes e_8$	{1278, 1346, 245689, 3579}
942:4	$0, 0, 0, 0, 0, \frac{1}{1169}\sqrt{243102e^{12}}, \frac{8}{1169}\sqrt{2614e^{13}}, \frac{2}{1169}\sqrt{1307e^{16}},$ $\frac{1}{1169}\sqrt{744990e^{26}} + \frac{2}{1169}\sqrt{206506e^{34}}$	$(\frac{188}{1169}, -\frac{163}{1169}, -\frac{37}{1169}, -\frac{101}{1169}, \frac{1}{1169}, \frac{25}{1169}, \frac{151}{1169}, \frac{213}{1169}, -\frac{138}{1169})$ $+ \frac{6}{1169}\sqrt{69271e^5} \otimes e_9$	{12379, 1249, 136789, 14689, 23456, 2567, 3458, 578}
942:4	$0, 0, 0, 0, 0, \frac{22}{2785}\sqrt{1299e^{12}}, \frac{2}{557}\sqrt{14289e^{13}}, \frac{2}{2785}\sqrt{449454e^{16}},$ $\frac{4}{2785}\sqrt{43733e^{26}} + \frac{2}{2785}\sqrt{579354e^{34}}$	$(-\frac{312}{2785}, \frac{61}{557}, -\frac{249}{2785}, \frac{547}{2785}, \frac{1164}{2785}, -\frac{7}{2785}, -\frac{561}{2785}, -\frac{319}{2785}, \frac{298}{2785})$ $+ \frac{12}{557}\sqrt{433e^5} \otimes e_9 + \frac{2}{2785}\sqrt{701893e^4} \otimes e_8$	{1258, 134567, 23689, 479}
942:4	$0, 0, 0, 0, 0, \frac{16}{35}\sqrt{e^{12}}, \frac{8}{35}\sqrt{5e^{13}}, \frac{4}{35}\sqrt{26e^{16}},$ $\frac{8}{35}\sqrt{2e^{26}} + \frac{4}{35}\sqrt{26e^{34}}$	$(-\frac{1}{5}, \frac{2}{7}, \frac{1}{35}, \frac{12}{35}, -\frac{6}{35}, \frac{3}{35}, -\frac{6}{35}, -\frac{4}{35}, \frac{13}{35})$ $+ \frac{4}{35}\sqrt{42e^4} \otimes e_8 + \frac{8}{35}\sqrt{5e^2} \otimes e_5$	{128, 134567, 23689, 4579}
942:4	$0, 0, 0, 0, 0, \frac{8}{3491}\sqrt{285e^{12}}, \frac{8}{3491}\sqrt{22173e^{13}}, \frac{8}{3491}\sqrt{7638e^{16}},$ $\frac{24}{3491}\sqrt{2451e^{26}} + \frac{8}{3491}\sqrt{51585e^{34}}$	$(\frac{124}{3491}, -\frac{8}{3491}, -\frac{920}{3491}, \frac{1028}{3491}, \frac{1932}{3491}, \frac{116}{3491}, -\frac{796}{3491}, \frac{240}{3491}, \frac{108}{3491})$ $+ \frac{152}{3491}\sqrt{246e^5} \otimes e_9 + \frac{8}{3491}\sqrt{88863e^4} \otimes e_7$	{1234568, 125678, 1345, 157, 23789, 2489, 3679, 469}
942:4	$0, 0, 0, 0, 0, \frac{8}{3491}\sqrt{285e^{12}}, \frac{8}{3491}\sqrt{22173e^{13}}, \frac{8}{3491}\sqrt{7638e^{16}},$ $\frac{24}{3491}\sqrt{2451e^{26}} + \frac{8}{3491}\sqrt{51585e^{34}}$	$(\frac{124}{3491}, -\frac{8}{3491}, -\frac{920}{3491}, \frac{1028}{3491}, \frac{1932}{3491}, \frac{116}{3491}, -\frac{796}{3491}, \frac{240}{3491}, \frac{108}{3491})$ $+ \frac{152}{3491}\sqrt{246e^5} \otimes e_9 - \frac{8}{3491}\sqrt{88863e^4} \otimes e_7$	{1234568, 125678, 1345, 157, 23789, 2489, 3679, 469}
942:4	$0, 0, 0, 0, 0, \frac{20}{3107}\sqrt{714e^{12}}, \frac{20}{3107}\sqrt{329e^{13}}, \frac{20}{3107}\sqrt{4438e^{16}},$ $\frac{20}{3107}\sqrt{273e^{26}} + \frac{20}{3107}\sqrt{7231e^{34}}$	$(-\frac{430}{3107}, \frac{290}{3107}, \frac{830}{3107}, -\frac{680}{3107}, \frac{1550}{3107}, -\frac{140}{3107}, \frac{400}{3107}, -\frac{570}{3107}, \frac{150}{3107})$ $+ \frac{420}{3107}\sqrt{19e^5} \otimes e_9 + \frac{60}{3107}\sqrt{1211e^3} \otimes e_8$	{12578, 13456, 24689, 379}
942:4	$0, 0, 0, 0, 0, \frac{12}{475}\sqrt{79e^{12}}, \frac{11}{475}\sqrt{474e^{13}}, \frac{2}{475}\sqrt{8058e^{16}},$ $\frac{1}{475}\sqrt{13746e^{26}} + \frac{2}{475}\sqrt{8058e^{34}}$	$(-\frac{116}{475}, \frac{102}{475}, \frac{107}{475}, -\frac{1}{25}, \frac{12}{25}, -\frac{14}{475}, -\frac{9}{475}, -\frac{26}{95}, \frac{88}{475})$ $+ \frac{1}{475}\sqrt{117078e^3} \otimes e_8 + \frac{1}{475}\sqrt{84846e^5} \otimes e_7$	{123569, 14789, 2347, 568}
942:4	$0, 0, 0, 0, 0, \frac{2}{2869}\sqrt{89585e^{12}}, \frac{20}{2869}\sqrt{5658e^{13}}, \frac{4}{2869}\sqrt{68839e^{16}},$ $\frac{2}{2869}\sqrt{557313e^{26}} + \frac{2}{2869}\sqrt{136735e^{34}}$	$(\frac{102}{2869}, -\frac{181}{2869}, \frac{813}{2869}, -\frac{1073}{2869}, \frac{1626}{2869}, -\frac{79}{2869}, \frac{915}{2869}, \frac{23}{2869}, -\frac{260}{2869})$ $+ \frac{2}{2869}\sqrt{1172149e^3} \otimes e_4 + \frac{46}{2869}\sqrt{2337e^5} \otimes e_9$	{23789, 2489, 3679, 469}
942:5	$0, 0, 0, 0, 0, \frac{4}{4377}\sqrt{109802e^{12}}, \frac{2}{4377}\sqrt{683054e^{13}}, \frac{4}{4377}\sqrt{305877e^{26}},$ $\frac{2}{4377}\sqrt{549723e^{16}} + \frac{2}{4377}\sqrt{62031e^{34}}$	$(-\frac{355}{4377}, \frac{158}{1459}, -\frac{199}{1459}, \frac{361}{4377}, \frac{673}{1459}, \frac{119}{4377}, -\frac{952}{4377}, \frac{593}{4377}, -\frac{236}{4377})$ $+ \frac{2}{1459}\sqrt{186806e^2} \otimes e_7 + \frac{2}{4377}\sqrt{1120123e^5} \otimes e_8$	{12348, 146789, 256, 3579}
942:5	$0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3e^{12}}, \frac{966}{2593}\sqrt{e^{13}}, \frac{92}{2593}\sqrt{174e^{26}},$ $\frac{46}{2593}\sqrt{287e^{16}} + \frac{46}{2593}\sqrt{813e^{34}}$	$(\frac{191}{2593}, -\frac{351}{2593}, \frac{547}{2593}, -\frac{516}{2593}, \frac{1089}{2593}, -\frac{160}{2593}, \frac{738}{2593}, -\frac{511}{2593}, \frac{31}{2593})$ $+ \frac{184}{2593}\sqrt{94e^3} \otimes e_8 + \frac{276}{2593}\sqrt{22e^5} \otimes e_9$	{12369, 1345, 2489, 568}
942:5	$0, 0, 0, 0, 0, \frac{1}{271}\sqrt{15594e^{12}}, \frac{1}{271}\sqrt{12882e^{13}}, \frac{1}{271}\sqrt{15594e^{26}},$ $\frac{1}{271}\sqrt{12882e^{16}} + \frac{1}{271}\sqrt{69834e^{34}}$	$(\frac{65}{271}, \frac{4}{271}, -\frac{34}{271}, \frac{168}{271}, -\frac{171}{271}, \frac{69}{271}, \frac{31}{271}, \frac{73}{271}, \frac{134}{271})$ $+ \frac{1}{271}\sqrt{149838e^4} \otimes e_5$	{123478, 1258, 1356789, 14689, 2346, 2567, 359, 479}
942:5	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{130e^{12}}, \frac{1}{14}\sqrt{26e^{13}}, \frac{1}{14}\sqrt{130e^{26}},$ $\frac{1}{14}\sqrt{26e^{16}} + \frac{1}{14}\sqrt{39e^{34}}$	$(-\frac{1}{28}, \frac{2}{7}, \frac{1}{7}, \frac{1}{14}, -\frac{9}{14}, \frac{1}{4}, \frac{3}{28}, \frac{15}{28}, \frac{3}{14})$ $+ \frac{1}{14}\sqrt{299e^2} \otimes e_5$	{123478, 128, 1356789, 145689, 2346, 267, 359, 4579}
942:5	$0, 0, 0, 0, 0, \frac{4}{1307}\sqrt{3790e^{12}}, \frac{2}{1307}\sqrt{100435e^{13}}, \frac{2}{1307}\sqrt{112942e^{26}},$ $\frac{2}{1307}\sqrt{83759e^{16}} + \frac{14}{1307}\sqrt{1895e^{34}}$	$(\frac{141}{1307}, -\frac{113}{1307}, -\frac{365}{1307}, \frac{534}{1307}, \frac{673}{1307}, \frac{28}{1307}, -\frac{224}{1307}, -\frac{85}{1307}, \frac{169}{1307})$ $+ \frac{2}{1307}\sqrt{240286e^4} \otimes e_7 + \frac{8}{1307}\sqrt{12507e^5} \otimes e_8$	{1345, 157, 23789, 2489}
942:5	$0, 0, 0, 0, 0, \frac{4}{4457}\sqrt{23002e^{12}}, \frac{2}{4457}\sqrt{349153e^{13}}, \frac{8}{4457}\sqrt{18445e^{26}},$ $\frac{4}{4457}\sqrt{291431e^{16}} + \frac{2}{4457}\sqrt{303149e^{34}}$	$(\frac{495}{4457}, -\frac{599}{4457}, -\frac{269}{4457}, \frac{660}{4457}, \frac{337}{4457}, -\frac{104}{4457}, \frac{226}{4457}, -\frac{703}{4457}, \frac{391}{4457})$ $+ \frac{40}{4457}\sqrt{1302e^3} \otimes e_8 + \frac{4}{4457}\sqrt{93310e^4} \otimes e_7$	{134, 1345, 24589, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:5	$0, 0, 0, 0, 0, \frac{82}{5029}\sqrt{226}e^{12}, \frac{41}{5029}\sqrt{2986}e^{13}, \frac{82}{5029}\sqrt{563}e^{26},$ $\frac{943}{5029}\sqrt{2}e^{16} + \frac{82}{5029}\sqrt{17}e^{34}$	$(-\frac{943}{5029}, \frac{1271}{5029}, \frac{533}{5029}, -\frac{1148}{5029}, \frac{1066}{5029}, \frac{328}{5029}, -\frac{410}{5029}, \frac{1599}{5029}, -\frac{615}{5029})$ $+ \frac{41}{5029}\sqrt{1186}e^5 \otimes e_9 + \frac{492}{5029}\sqrt{33}e^2 \otimes e_7 + \frac{943}{5029}\sqrt{6}e^3 \otimes e_4$	{146789, 379}
942:5	$0, 0, 0, 0, 0, \frac{1}{1307}\sqrt{337634}e^{12}, \frac{3}{1307}\sqrt{193402}e^{13}, \frac{2}{1307}\sqrt{93423}e^{26},$ $\frac{4}{1307}\sqrt{24585}e^{16} + \frac{3}{1307}\sqrt{22946}e^{34}$	$(-\frac{86}{1307}, \frac{211}{1307}, \frac{839}{1307}, -\frac{800}{1307}, \frac{222}{1307}, \frac{125}{1307}, \frac{753}{1307}, \frac{336}{1307}, \frac{39}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^3 \otimes e_4$	{13, 135, 1457, 147, 35678, 3678, 4568, 468}
942:5	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{170}e^{12}, \frac{1}{53}\sqrt{595}e^{13}, \frac{1}{53}\sqrt{493}e^{26},$ $\frac{1}{53}\sqrt{374}e^{16} + \frac{1}{53}\sqrt{221}e^{34}$	$(-\frac{6}{53}, \frac{13}{53}, \frac{2}{53}, -\frac{1}{53}, -\frac{15}{53}, \frac{7}{53}, -\frac{4}{53}, \frac{20}{53}, \frac{1}{53})$ $+ \frac{1}{53}\sqrt{697}e^3 \otimes e_5 + \frac{3}{53}\sqrt{102}e^2 \otimes e_7$	{12348, 1456789, 256, 379}
942:5	$0, 0, 0, 0, 0, \frac{1}{114}\sqrt{1430}e^{12}, \frac{13}{114}\sqrt{11}e^{13}, \frac{1}{57}\sqrt{3003}e^{26},$ $\frac{1}{57}\sqrt{858}e^{16} + \frac{1}{38}\sqrt{286}e^{34}$	$(\frac{11}{57}, -\frac{17}{76}, \frac{1}{19}, \frac{25}{228}, 1, -\frac{7}{228}, \frac{14}{57}, -\frac{29}{114}, \frac{37}{228})$ $+ \frac{1}{114}\sqrt{26455}e^5 \otimes e_8$	{12348, 1278, 13689, 146789, 234567, 256, 3579, 459}
942:5	$0, 0, 0, 0, 0, \frac{4}{279}\sqrt{546}e^{12}, \frac{2}{279}\sqrt{741}e^{13}, \frac{4}{31}\sqrt{13}e^{26},$ $\frac{2}{93}\sqrt{195}e^{16} + \frac{2}{279}\sqrt{2886}e^{34}$	$(\frac{4}{31}, -\frac{5}{93}, -\frac{3}{31}, \frac{28}{93}, -\frac{1}{31}, \frac{7}{93}, \frac{1}{31}, \frac{2}{93}, \frac{19}{93})$ $+ \frac{22}{279}\sqrt{39}e^2 \otimes e_5 + \frac{26}{279}\sqrt{30}e^4 \otimes e_8$	{128, 1356789, 2346, 4579}
942:5	$0, 0, 0, 0, 0, \frac{2}{4033}\sqrt{253822}e^{12}, \frac{20}{4033}\sqrt{10635}e^{13}, \frac{2}{4033}\sqrt{769974}e^{26},$ $\frac{12}{4033}\sqrt{13471}e^{16} + \frac{2}{4033}\sqrt{99969}e^{34}$	$(-\frac{781}{4033}, \frac{1130}{4033}, \frac{493}{4033}, -\frac{25}{109}, \frac{393}{4033}, \frac{349}{4033}, -\frac{288}{4033}, \frac{1479}{4033}, -\frac{432}{4033})$ $+ \frac{2}{4033}\sqrt{1034431}e^3 \otimes e_4 + \frac{2}{4033}\sqrt{1546329}e^2 \otimes e_7$	{12358, 1238, 2456, 246}
942:5	$0, 0, 0, 0, 0, \frac{7}{4477}\sqrt{442}e^{12}, \frac{7}{4477}\sqrt{3722}e^{13}, \frac{7}{4477}\sqrt{4326}e^{26},$ $\frac{14}{4477}\sqrt{793}e^{16} + \frac{7}{4477}\sqrt{1370}e^{34}$	$(-\frac{119}{4477}, \frac{140}{4477}, \frac{210}{4477}, -\frac{28}{407}, -\frac{49}{4477}, \frac{21}{4477}, \frac{91}{4477}, \frac{161}{4477}, -\frac{98}{4477})$ $+ \frac{14}{4477}\sqrt{213}e^5 \otimes e_9 + \frac{7}{4477}\sqrt{4294}e^2 \otimes e_7 + \frac{7}{4477}\sqrt{4758}e^3 \otimes e_8$	{1456789, 3579}
942:5	$0, 0, 0, 0, 0, \frac{550}{2209}\sqrt{3}e^{12}, \frac{100}{2209}\sqrt{33}e^{13}, \frac{50}{2209}\sqrt{385}e^{26},$ $\frac{550}{2209}e^{16} + \frac{50}{2209}\sqrt{341}e^{34}$	$(\frac{605}{2209}, -\frac{460}{2209}, -\frac{185}{2209}, \frac{935}{2209}, -\frac{645}{2209}, \frac{145}{2209}, \frac{420}{2209}, -\frac{315}{2209}, \frac{750}{2209})$ $+ \frac{100}{2209}\sqrt{247}e^4 \otimes e_8 + \frac{50}{2209}\sqrt{933}e^1 \otimes e_5$	{12389, 1678, 24569, 3457}
942:5	$0, 0, 0, 0, 0, \frac{1}{1373}\sqrt{217806}e^{12}, \frac{1}{1373}\sqrt{119442}e^{13}, \frac{1}{1373}\sqrt{1290442}e^{26},$ $\frac{4}{1373}\sqrt{40985}e^{16} + \frac{4}{1373}\sqrt{83141}e^{34}$	$(\frac{466}{1373}, -\frac{416}{1373}, -\frac{289}{1373}, \frac{805}{1373}, \frac{228}{1373}, \frac{50}{1373}, \frac{177}{1373}, -\frac{366}{1373}, \frac{516}{1373})$ $+ \frac{1}{1373}\sqrt{2681590}e^4 \otimes e_8$	{1258, 128, 1356789, 136789, 23456, 2346, 4579, 479}
942:5	$0, 0, 0, 0, 0, \frac{5}{373}\sqrt{106}e^{12}, \frac{1}{373}\sqrt{15370}e^{13}, \frac{2}{373}\sqrt{265}e^{26},$ $\frac{10}{373}\sqrt{265}e^{16} + \frac{7}{373}\sqrt{530}e^{34}$	$(-\frac{40}{373}, \frac{41}{373}, \frac{113}{373}, -\frac{152}{373}, \frac{226}{373}, \frac{1}{373}, \frac{73}{373}, \frac{42}{373}, -\frac{39}{373})$ $+ \frac{2}{373}\sqrt{24115}e^5 \otimes e_9 + \frac{7}{373}\sqrt{1590}e^3 \otimes e_4$	{1239, 12479, 236789, 24689}
942:5	$0, 0, 0, 0, 0, \frac{36}{701}\sqrt{17}e^{12}, \frac{18}{701}\sqrt{127}e^{13}, \frac{18}{701}\sqrt{290}e^{26},$ $\frac{234}{701}e^{16} + \frac{18}{701}\sqrt{161}e^{34}$	$(\frac{45}{701}, -\frac{27}{701}, \frac{153}{701}, -\frac{90}{701}, -\frac{189}{701}, \frac{18}{701}, \frac{198}{701}, -\frac{9}{701}, \frac{63}{701})$ $+ \frac{18}{701}\sqrt{370}e^3 \otimes e_8 + \frac{36}{701}\sqrt{65}e^2 \otimes e_5$	{1278, 1456789, 23467, 3579}
942:5	$0, 0, 0, 0, 0, \frac{1}{317}\sqrt{1074}e^{12}, \frac{3}{317}\sqrt{1790}e^{13}, \frac{1}{317}\sqrt{31146}e^{26},$ $\frac{4}{317}\sqrt{1253}e^{16} + \frac{12}{317}\sqrt{179}e^{34}$	$(\frac{50}{317}, -\frac{48}{317}, -\frac{81}{317}, \frac{133}{317}, \frac{148}{317}, \frac{2}{317}, -\frac{31}{317}, -\frac{46}{317}, \frac{52}{317})$ $+ \frac{13}{317}\sqrt{358}e^4 \otimes e_8 + \frac{4}{317}\sqrt{2506}e^5 \otimes e_7$	{124679, 1345, 23789, 568}
942:5	$0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{650122}e^{12}, \frac{4}{1397}\sqrt{56045}e^{13}, \frac{4}{1397}\sqrt{70311}e^{26},$ $\frac{1}{1397}\sqrt{527842}e^{16} + \frac{1}{1397}\sqrt{34646}e^{34}$	$(-\frac{268}{1397}, \frac{526}{1397}, -\frac{225}{1397}, \frac{215}{1397}, \frac{232}{1397}, \frac{258}{1397}, -\frac{493}{1397}, \frac{784}{1397}, -\frac{10}{1397})$ $+ \frac{1}{1397}\sqrt{2374270}e^2 \otimes e_7$	{123458, 12348, 1456789, 146789, 256, 26, 3579, 379}
942:5	$0, 0, 0, 0, 0, \frac{8}{679}\sqrt{597}e^{12}, \frac{18}{679}\sqrt{597}e^{13}, \frac{20}{679}\sqrt{597}e^{26},$ $\frac{2}{679}\sqrt{43979}e^{16} + \frac{2}{679}\sqrt{43581}e^{34}$	$(\frac{125}{679}, -\frac{153}{679}, \frac{31}{97}, -\frac{120}{679}, \frac{99}{679}, -\frac{4}{97}, \frac{342}{679}, -\frac{181}{679}, \frac{1}{7})$ $+ \frac{4}{679}\sqrt{28855}e^3 \otimes e_8$	{123569, 12369, 134, 1345, 24589, 2489, 568, 68}
942:5	$0, 0, 0, 0, 0, \frac{4}{653}\sqrt{4498}e^{12}, \frac{2}{653}\sqrt{12283}e^{13}, \frac{2}{653}\sqrt{27334}e^{26},$ $\frac{2}{653}\sqrt{15743}e^{16} + \frac{2}{653}\sqrt{21279}e^{34}$	$(-\frac{5}{653}, \frac{121}{653}, -\frac{115}{653}, \frac{226}{653}, -\frac{225}{653}, \frac{116}{653}, -\frac{120}{653}, \frac{237}{653}, \frac{111}{653})$ $+ \frac{6}{653}\sqrt{5190}e^4 \otimes e_7 + \frac{8}{653}\sqrt{3287}e^2 \otimes e_5$	{12348, 1278, 3579, 459}
942:5	$0, 0, 0, 0, 0, \frac{4}{3193}\sqrt{76046}e^{12}, \frac{2}{3193}\sqrt{625357}e^{13}, \frac{4}{3193}\sqrt{4045}e^{26},$ $\frac{2}{3193}\sqrt{246745}e^{16} + \frac{2}{3193}\sqrt{156137}e^{34}$	$(\frac{447}{3193}, -\frac{1}{103}, \frac{601}{3193}, \frac{1464}{3193}, -\frac{1171}{3193}, \frac{416}{3193}, -\frac{154}{3193}, \frac{385}{3193}, \frac{863}{3193})$ $+ \frac{32}{3193}\sqrt{4854}e^1 \otimes e_5 + \frac{4}{3193}\sqrt{261307}e^4 \otimes e_7$	{13468, 1678, 235679, 24569}
942:5	$0, 0, 0, 0, 0, \frac{44}{1241}\sqrt{23}e^{12}, \frac{22}{1241}\sqrt{354}e^{13}, \frac{176}{1241}\sqrt{6}e^{26},$ $\frac{22}{1241}\sqrt{209}e^{16} + \frac{22}{1241}\sqrt{17}e^{34}$	$(-\frac{143}{1241}, \frac{154}{1241}, \frac{55}{1241}, -\frac{11}{73}, \frac{407}{1241}, \frac{11}{1241}, -\frac{88}{1241}, \frac{165}{1241}, -\frac{132}{1241})$ $+ \frac{22}{1241}\sqrt{298}e^3 \otimes e_4 + \frac{22}{1241}\sqrt{313}e^5 \otimes e_8 + \frac{44}{1241}\sqrt{134}e^2 \otimes e_7$	{1238, 2456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:5	$0, 0, 0, 0, 0, \frac{12}{503}\sqrt{30}e^{12}, \frac{6}{503}\sqrt{465}e^{13}, \frac{12}{503}\sqrt{30}e^{26},$ $\frac{6}{503}\sqrt{465}e^{16} + \frac{126}{503}\sqrt{5}e^{34}$	$(-\frac{15}{503}, \frac{39}{503}, -\frac{123}{503}, \frac{132}{503}, \frac{279}{503}, \frac{24}{503}, -\frac{138}{503}, \frac{63}{503}, \frac{9}{503})$ $+ \frac{24}{503}\sqrt{210}e^4 \otimes e_7 + \frac{24}{503}\sqrt{210}e^5 \otimes e_9$	{134568, 15678, 23679, 2469}
942:5	$0, 0, 0, 0, 0, \frac{1}{507}\sqrt{1730}e^{12}, \frac{8}{507}\sqrt{346}e^{13}, \frac{4}{507}\sqrt{2941}e^{26},$ $\frac{4}{507}\sqrt{2422}e^{16} + \frac{1}{507}\sqrt{64010}e^{34}$	$(\frac{34}{169}, -\frac{82}{507}, \frac{11}{507}, \frac{37}{169}, -\frac{54}{169}, \frac{20}{507}, \frac{113}{507}, -\frac{62}{507}, \frac{122}{507})$ $+ \frac{1}{507}\sqrt{73006}e^3 \otimes e_5 + \frac{1}{507}\sqrt{85462}e^4 \otimes e_8$	{1245679, 134, 23789, 568}
942:5	$0, 0, 0, 0, 0, \frac{1}{2077}\sqrt{9202}e^{12}, \frac{2}{2077}\sqrt{15953}e^{13}, \frac{2}{2077}\sqrt{19221}e^{26},$ $\frac{11}{2077}\sqrt{430}e^{16} + \frac{1}{2077}\sqrt{30014}e^{34}$	$(-\frac{74}{2077}, \frac{2}{67}, \frac{3}{67}, -\frac{179}{2077}, \frac{170}{2077}, -\frac{12}{2077}, \frac{19}{2077}, \frac{50}{2077}, -\frac{86}{2077})$ $+ \frac{1}{2077}\sqrt{76798}e^2 \otimes e_7 + \frac{26}{2077}\sqrt{129}e^3 \otimes e_8$	{1456789, 146789, 3579, 379}
942:5	$0, 0, 0, 0, 0, \frac{24}{3839}\sqrt{1430}e^{12}, \frac{8}{3839}\sqrt{49530}e^{13}, \frac{4}{3839}\sqrt{155090}e^{26},$ $\frac{8}{3839}\sqrt{33215}e^{16} + \frac{20}{3839}\sqrt{3562}e^{34}$	$(\frac{230}{3839}, -\frac{461}{3839}, \frac{348}{3839}, -\frac{1}{11}, \frac{1618}{3839}, -\frac{21}{349}, \frac{578}{3839}, -\frac{692}{3839}, -\frac{1}{3839})$ $+ \frac{4}{3839}\sqrt{288730}e^3 \otimes e_8 + \frac{8}{3839}\sqrt{41665}e^5 \otimes e_7$	{123569, 1345, 24589, 568}
942:5	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{18}{139}\sqrt{14}e^{13}, \frac{2}{139}\sqrt{966}e^{26},$ $\frac{4}{139}\sqrt{77}e^{16} + \frac{28}{139}\sqrt{3}e^{34}$	$(\frac{26}{139}, -\frac{51}{278}, \frac{31}{139}, -\frac{9}{278}, -\frac{30}{139}, \frac{1}{278}, \frac{57}{139}, -\frac{25}{139}, \frac{53}{278})$ $+ \frac{2}{139}\sqrt{1302}e^1 \otimes e_5 + \frac{8}{139}\sqrt{133}e^3 \otimes e_8$	{1278, 146789, 234567, 3579}
942:5	$0, 0, 0, 0, 0, \frac{3}{202}\sqrt{65}e^{12}, \frac{3}{202}\sqrt{254}e^{13}, \frac{3}{101}\sqrt{55}e^{26},$ $\frac{3}{202}\sqrt{202}e^{16} + \frac{9}{101}\sqrt{7}e^{34}$	$(\frac{9}{101}, -\frac{12}{101}, -\frac{6}{101}, \frac{12}{101}, \frac{15}{101}, -\frac{3}{101}, \frac{3}{101}, -\frac{15}{101}, \frac{6}{101})$ $+ \frac{3}{202}\sqrt{399}e^3 \otimes e_8 + \frac{3}{202}\sqrt{61}e^5 \otimes e_9 + \frac{51}{202}e^4 \otimes e_7$	{1345, 2489}
942:5	$0, 0, 0, 0, 0, \frac{3}{91}\sqrt{30}e^{12}, \frac{2}{91}\sqrt{30}e^{13}, \frac{1}{91}\sqrt{590}e^{26},$ $\frac{1}{91}\sqrt{110}e^{16} + \frac{5}{91}\sqrt{22}e^{34}$	$(-\frac{5}{91}, \frac{1}{26}, \frac{12}{91}, -\frac{37}{182}, \frac{17}{91}, -\frac{3}{182}, \frac{1}{13}, \frac{2}{91}, -\frac{1}{14})$ $+ \frac{1}{91}\sqrt{730}e^3 \otimes e_8 + \frac{4}{91}\sqrt{10}e^5 \otimes e_7 - \frac{5}{91}\sqrt{30}e^2 \otimes e_9$	{1278, 146789, 23467, 379}
942:5	$0, 0, 0, 0, 0, \frac{3}{91}\sqrt{30}e^{12}, \frac{2}{91}\sqrt{30}e^{13}, \frac{1}{91}\sqrt{590}e^{26},$ $\frac{1}{91}\sqrt{110}e^{16} + \frac{5}{91}\sqrt{22}e^{34}$	$(-\frac{5}{91}, \frac{1}{26}, \frac{12}{91}, -\frac{37}{182}, \frac{17}{91}, -\frac{3}{182}, \frac{1}{13}, \frac{2}{91}, -\frac{1}{14})$ $+ \frac{1}{91}\sqrt{730}e^3 \otimes e_8 + \frac{4}{91}\sqrt{10}e^5 \otimes e_7 + \frac{5}{91}\sqrt{30}e^2 \otimes e_9$	{1278, 146789, 23467, 379}
942:5	$0, 0, 0, 0, 0, \frac{4}{1323}\sqrt{6565}e^{12}, \frac{26}{3969}\sqrt{7474}e^{13}, \frac{8}{3969}\sqrt{72215}e^{26},$ $\frac{10}{3969}\sqrt{610545}e^{16} + \frac{10}{3969}\sqrt{1313}e^{34}$	$(\frac{5}{189}, -\frac{278}{3969}, \frac{1279}{3969}, -\frac{449}{1323}, \frac{725}{1323}, -\frac{173}{3969}, \frac{1384}{3969}, -\frac{451}{3969}, -\frac{68}{3969})$ $+ \frac{26}{3969}\sqrt{13938}e^3 \otimes e_4 + \frac{2}{3969}\sqrt{2301689}e^5 \otimes e_8$	{135, 1457, 3678, 468}
942:5	$0, 0, 0, 0, 0, \frac{10}{3649}\sqrt{18281}e^{12}, \frac{2}{3649}\sqrt{471670}e^{13}, \frac{2}{3649}\sqrt{326735}e^{26},$ $\frac{6}{3649}\sqrt{10605}e^{16} + \frac{2}{3649}\sqrt{124735}e^{34}$	$(-\frac{127}{3649}, \frac{578}{3649}, -\frac{305}{3649}, \frac{629}{3649}, -\frac{1137}{3649}, \frac{11}{89}, -\frac{432}{3649}, \frac{1029}{3649}, \frac{324}{3649})$ $+ \frac{14}{3649}\sqrt{15655}e^1 \otimes e_5 + \frac{4}{3649}\sqrt{220685}e^2 \otimes e_7$	{123489, 14678, 2569, 357}
942:5	$0, 0, 0, 0, 0, \frac{1}{1917}\sqrt{79946}e^{12}, \frac{2}{1917}\sqrt{112037}e^{13}, \frac{2}{1917}\sqrt{168337}e^{26},$ $\frac{1}{1917}\sqrt{139061}e^{16} + \frac{1}{1917}\sqrt{755546}e^{34}$	$(\frac{352}{1917}, -\frac{38}{213}, \frac{77}{639}, \frac{131}{1917}, -\frac{16}{71}, \frac{10}{1917}, \frac{583}{1917}, -\frac{332}{1917}, \frac{362}{1917})$ $+ \frac{1}{1917}\sqrt{1255490}e^3 \otimes e_8 + \frac{1}{1917}\sqrt{694742}e^4 \otimes e_5$	{123569, 134, 2489, 568}
942:5	$0, 0, 0, 0, 0, \frac{1}{1307}\sqrt{337634}e^{12}, \frac{3}{1307}\sqrt{193402}e^{13}, \frac{2}{1307}\sqrt{93423}e^{26},$ $\frac{4}{1307}\sqrt{24585}e^{16} + \frac{3}{1307}\sqrt{22946}e^{34}$	$(-\frac{86}{1307}, \frac{211}{1307}, -\frac{246}{1307}, \frac{285}{1307}, \frac{1}{1307}, \frac{125}{1307}, -\frac{332}{1307}, \frac{336}{1307}, \frac{39}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^5 \otimes e_7$	{1234569, 12679, 135, 147, 234789, 2589, 3678, 4568}
942:5	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{66}e^{12}, \frac{1}{54}\sqrt{462}e^{13}, \frac{1}{54}\sqrt{858}e^{26},$ $\frac{1}{54}\sqrt{330}e^{16} + \frac{1}{18}\sqrt{11}e^{34}$	$(-\frac{1}{12}, \frac{2}{9}, \frac{1}{3}, -\frac{5}{18}, -\frac{7}{18}, \frac{5}{36}, \frac{1}{4}, \frac{13}{36}, \frac{1}{18})$ $+ \frac{11}{54}\sqrt{15}e^2 \otimes e_5 + \frac{1}{27}\sqrt{330}e^3 \otimes e_4$	{135689, 1456789, 3579, 459}
942:5	$0, 0, 0, 0, 0, \frac{1}{1172}\sqrt{162734}e^{12}, \frac{1}{586}\sqrt{146802}e^{13}, \frac{1}{586}\sqrt{21053}e^{26},$ $\frac{3}{1172}\sqrt{17070}e^{16} + \frac{7}{586}\sqrt{569}e^{34}$	$(-\frac{151}{1172}, \frac{39}{293}, \frac{423}{2344}, -\frac{715}{2344}, \frac{1259}{2344}, \frac{5}{1172}, \frac{121}{2344}, \frac{161}{1172}, -\frac{73}{586})$ $+ \frac{1}{1172}\sqrt{617365}e^3 \otimes e_4 + \frac{1}{1172}\sqrt{617365}e^5 \otimes e_7$	{135, 147, 3678, 4568}
942:5	$0, 0, 0, 0, 0, \frac{5}{1633}\sqrt{17754}e^{12}, \frac{2}{1633}\sqrt{117015}e^{13}, \frac{2}{1633}\sqrt{184803}e^{26},$ $\frac{1}{1633}\sqrt{418026}e^{16} + \frac{1}{1633}\sqrt{369606}e^{34}$	$(-\frac{106}{1633}, \frac{382}{1633}, -\frac{319}{1633}, \frac{489}{1633}, -\frac{318}{1633}, \frac{12}{71}, -\frac{425}{1633}, \frac{658}{1633}, \frac{170}{1633})$ $+ \frac{2}{1633}\sqrt{209013}e^4 \otimes e_5 + \frac{3}{1633}\sqrt{164090}e^2 \otimes e_7$	{12348, 146789, 256, 3579}
942:5	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178}e^{12}, \frac{2}{169}\sqrt{4717}e^{13}, \frac{4}{169}\sqrt{445}e^{26},$ $\frac{2}{169}\sqrt{2759}e^{16} + \frac{14}{169}\sqrt{89}e^{34}$	$(\frac{15}{169}, \frac{17}{169}, \frac{67}{169}, -\frac{20}{169}, -\frac{111}{169}, \frac{32}{169}, \frac{82}{169}, \frac{49}{169}, \frac{47}{169})$ $+ \frac{4}{169}\sqrt{3115}e^3 \otimes e_5$	{12369, 1245679, 134, 157, 23789, 24589, 34678, 568}
942:5	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{384373}e^{12}, \frac{6}{3769}\sqrt{107734}e^{13}, \frac{2}{3769}\sqrt{62997}e^{26},$ $\frac{6}{3769}\sqrt{59345}e^{16} + \frac{6}{3769}\sqrt{42911}e^{34}$	$(\frac{257}{3769}, \frac{26}{3769}, \frac{1183}{3769}, -\frac{643}{3769}, -\frac{1569}{3769}, \frac{283}{3769}, \frac{1440}{3769}, \frac{309}{3769}, \frac{540}{3769})$ $+ \frac{22}{3769}\sqrt{14691}e^1 \otimes e_5 + \frac{76}{3769}\sqrt{913}e^3 \otimes e_4$	{136, 1467, 3578, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:5	$0, 0, 0, 0, 0, \frac{2}{3593}\sqrt{205147e^{12}}, \frac{2}{3593}\sqrt{326267e^{13}}, \frac{4}{3593}\sqrt{128690e^{26}},$ $\frac{2}{3593}\sqrt{71158e^{16}} + \frac{2}{3593}\sqrt{991670e^{34}}$	$(\frac{448}{3593}, -\frac{569}{3593}, -\frac{497}{3593}, \frac{824}{3593}, \frac{1841}{3593}, -\frac{121}{3593}, -\frac{49}{3593}, -\frac{690}{3593}, \frac{327}{3593})$ $+ \frac{2}{3593}\sqrt{1104463e^5} \otimes e_9 + \frac{4}{3593}\sqrt{331566e^4} \otimes e_8$	{123789, 1568, 24679, 345}
942:5	$0, 0, 0, 0, 0, \frac{4}{1217}\sqrt{4602e^{12}}, \frac{2}{1217}\sqrt{72393e^{13}}, \frac{12}{1217}\sqrt{590e^{26}},$ $\frac{2}{1217}\sqrt{46551e^{16}} + \frac{6}{1217}\sqrt{7021e^{34}}$	$(\frac{55}{1217}, \frac{81}{1217}, -\frac{109}{1217}, \frac{300}{1217}, -\frac{463}{1217}, \frac{136}{1217}, -\frac{54}{1217}, \frac{217}{1217}, \frac{191}{1217})$ $+ \frac{8}{1217}\sqrt{6195e^3} \otimes e_5 + \frac{8}{1217}\sqrt{6195e^4} \otimes e_7$	{134, 157, 23789, 24589}
942:5	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{10e^{12}}, \frac{2}{9}\sqrt{6e^{13}}, \frac{2}{9}\sqrt{2e^{26}}, \frac{4}{9}\sqrt{3e^{16}} + \frac{4}{9}e^{34}$	$(\frac{2}{9}, -\frac{1}{18}, \frac{1}{9}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{1}{3}, \frac{1}{9}, \frac{7}{18})$ $+ \frac{2}{9}\sqrt{30e^1} \otimes e_5$	{12349, 1279, 136, 1467, 23456789, 25689, 3578, 458}
942:5	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178e^{12}}, \frac{2}{169}\sqrt{4717e^{13}}, \frac{4}{169}\sqrt{445e^{26}},$ $\frac{2}{169}\sqrt{2759e^{16}} + \frac{14}{169}\sqrt{89e^{34}}$	$(\frac{15}{169}, \frac{17}{169}, -\frac{73}{169}, \frac{120}{169}, \frac{29}{169}, \frac{32}{169}, -\frac{58}{169}, \frac{49}{169}, \frac{47}{169})$ $+ \frac{4}{169}\sqrt{3115e^4} \otimes e_7$	{134, 1345, 157, 17, 235789, 23789, 24589, 2489}
942:5	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{445e^{12}}, \frac{2}{169}\sqrt{2759e^{13}}, \frac{4}{169}\sqrt{178e^{26}},$ $\frac{2}{169}\sqrt{4717e^{16}} + \frac{14}{169}\sqrt{89e^{34}}$	$(-\frac{1}{13}, \frac{17}{169}, \frac{11}{169}, -\frac{20}{169}, 1, \frac{4}{169}, -\frac{2}{169}, \frac{21}{169}, -\frac{9}{169})$ $+ \frac{4}{169}\sqrt{3115e^5} \otimes e_9$	{12379, 1249, 134567, 156, 23689, 246789, 3458, 578}
942:6	$0, 0, 0, 0, 0, \frac{4}{1579}\sqrt{9534e^{12}}, \frac{4}{1579}\sqrt{23381e^{13}} + \frac{2}{1579}\sqrt{282842e^{24}},$ $\frac{2}{1579}\sqrt{270130e^{16}}, \frac{6}{1579}\sqrt{17706e^{26}}$	$(-\frac{140}{1579}, -\frac{23}{1579}, \frac{722}{1579}, \frac{605}{1579}, -\frac{186}{1579}, -\frac{163}{1579}, \frac{582}{1579}, -\frac{303}{1579}, -\frac{186}{1579})$ $+ \frac{2}{1579}\sqrt{482602e^4} \otimes e_8 + \frac{6}{1579}\sqrt{17706e^3} \otimes e_5$	{124569, 1589, 234, 368}
942:6	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{3145e^{12}}, \frac{1}{121}\sqrt{555e^{13}} + \frac{1}{121}\sqrt{2553e^{24}}, \frac{1}{121}\sqrt{4551e^{16}},$ $\frac{3}{121}\sqrt{185e^{26}}$	$(\frac{29}{121}, -\frac{13}{121}, -\frac{45}{121}, -\frac{3}{121}, \frac{58}{121}, \frac{16}{121}, -\frac{16}{121}, \frac{45}{121}, \frac{3}{121})$ $+ \frac{5}{121}\sqrt{259e^5} \otimes e_7 + \frac{6}{121}\sqrt{259e^1} \otimes e_3$	{12458, 156, 2345689, 359}
942:6	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30e^{12}}, \frac{2}{23}\sqrt{30e^{13}} + \frac{4}{23}\sqrt{7e^{24}}, \frac{2}{23}\sqrt{46e^{16}},$ $\frac{4}{23}\sqrt{5e^{26}}$	$(\frac{7}{23}, -\frac{4}{23}, -\frac{5}{23}, \frac{6}{23}, -\frac{6}{23}, \frac{3}{23}, \frac{2}{23}, \frac{10}{23}, -\frac{1}{23})$ $+ \frac{10}{23}\sqrt{2e^4} \otimes e_5 + \frac{2}{23}\sqrt{74e^1} \otimes e_3$	{1248, 156, 234689, 359}
942:6	$0, 0, 0, 0, 0, \frac{78}{911}\sqrt{23e^{12}}, \frac{1}{911}\sqrt{128570e^{13}} + \frac{8}{911}\sqrt{598e^{24}},$ $\frac{1}{911}\sqrt{251758e^{16}}, \frac{1}{911}\sqrt{81926e^{26}}$	$(\frac{111}{911}, -\frac{87}{911}, -\frac{188}{911}, \frac{10}{911}, \frac{434}{911}, \frac{24}{911}, -\frac{77}{911}, \frac{135}{911}, -\frac{63}{911})$ $+ \frac{12}{911}\sqrt{1495e^5} \otimes e_8 + \frac{3}{911}\sqrt{31694e^1} \otimes e_3$	{1248, 156, 234689, 359}
942:6	$0, 0, 0, 0, 0, \frac{6}{223}\sqrt{935e^{12}}, \frac{11}{223}\sqrt{170e^{13}} + \frac{4}{223}\sqrt{187e^{24}}, \frac{1}{223}\sqrt{37774e^{16}},$ $\frac{5}{223}\sqrt{374e^{26}}$	$(\frac{87}{223}, -\frac{39}{223}, -\frac{100}{223}, \frac{26}{223}, \frac{34}{223}, \frac{48}{223}, -\frac{13}{223}, \frac{135}{223}, \frac{9}{223})$ $+ \frac{3}{223}\sqrt{7854e^1} \otimes e_3$	{12458, 1248, 156, 16, 2345689, 234689, 359, 39}
942:6	$0, 0, 0, 0, 0, \frac{42}{3761}\sqrt{806e^{12}}, \frac{14}{3761}\sqrt{10790e^{13}} + \frac{14}{3761}\sqrt{3939e^{24}},$ $\frac{28}{3761}\sqrt{3302e^{16}}, \frac{546}{3761}e^{26}$	$(-\frac{203}{3761}, \frac{224}{3761}, \frac{1092}{3761}, \frac{665}{3761}, -\frac{1477}{3761}, \frac{21}{3761}, \frac{889}{3761}, -\frac{182}{3761}, \frac{245}{3761})$ $+ \frac{14}{3761}\sqrt{23907e^1} \otimes e_5 + \frac{364}{3761}\sqrt{30e^3} \otimes e_8$	{12478, 1346, 25689, 3579}
942:6	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{7e^{12}}, \frac{3}{67}\sqrt{11e^{13}} + \frac{9}{67}\sqrt{7e^{24}}, \frac{3}{67}\sqrt{65e^{16}},$ $\frac{3}{67}\sqrt{11e^{26}}$	$(\frac{3}{67}, -\frac{9}{67}, \frac{3}{67}, \frac{15}{67}, \frac{24}{67}, -\frac{6}{67}, \frac{6}{67}, -\frac{3}{67}, -\frac{15}{67})$ $+ \frac{18}{67}\sqrt{2e^1} \otimes e_9 + \frac{30}{67}e^4 \otimes e_8 + \frac{3}{67}\sqrt{73e^5} \otimes e_7$	{1278, 1467, 236789, 3479}
942:6	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{7e^{12}}, \frac{3}{67}\sqrt{11e^{13}} + \frac{9}{67}\sqrt{7e^{24}}, \frac{3}{67}\sqrt{65e^{16}},$ $\frac{3}{67}\sqrt{11e^{26}}$	$(\frac{3}{67}, -\frac{9}{67}, \frac{3}{67}, \frac{15}{67}, \frac{24}{67}, -\frac{6}{67}, \frac{6}{67}, -\frac{3}{67}, -\frac{15}{67})$ $- \frac{18}{67}\sqrt{2e^1} \otimes e_9 + \frac{30}{67}e^4 \otimes e_8 + \frac{3}{67}\sqrt{73e^5} \otimes e_7$	{1278, 1467, 236789, 3479}
942:6	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1455e^{12}}, \frac{1}{293}\sqrt{6790e^{13}} + \frac{1}{293}\sqrt{16102e^{24}},$ $\frac{2}{293}\sqrt{6305e^{16}}, \frac{2}{293}\sqrt{3007e^{26}}$	$(\frac{13}{293}, -\frac{24}{293}, \frac{62}{293}, \frac{99}{293}, -\frac{84}{293}, -\frac{11}{293}, \frac{75}{293}, \frac{2}{293}, -\frac{35}{293})$ $+ \frac{1}{293}\sqrt{21534e^1} \otimes e_5 + \frac{1}{293}\sqrt{30070e^4} \otimes e_8$	{12378, 13467, 256789, 4579}
942:6	$0, 0, 0, 0, 0, \frac{5}{46}\sqrt{26e^{12}}, \frac{15}{46}\sqrt{6e^{13}} + \frac{15}{46}\sqrt{6e^{24}}, \frac{5}{46}\sqrt{6e^{16}},$ $\frac{5}{46}\sqrt{6e^{26}}$	$(\frac{1}{23}, \frac{1}{23}, -\frac{3}{23}, -\frac{3}{23}, 1, \frac{2}{23}, -\frac{2}{23}, \frac{3}{23}, \frac{3}{23})$ $+ \frac{5}{46}\sqrt{154e^5} \otimes e_7$	{12345689, 126789, 1359, 1479, 3467, 56}
942:6	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23e^{12}}, \frac{3}{55}\sqrt{105e^{13}} + \frac{3}{55}\sqrt{19e^{24}}, \frac{3}{55}\sqrt{53e^{16}},$ $\frac{3}{55}\sqrt{71e^{26}}$	$(-\frac{3}{55}, -\frac{3}{55}, \frac{9}{55}, \frac{9}{55}, \frac{24}{55}, -\frac{6}{55}, \frac{6}{55}, -\frac{9}{55}, -\frac{9}{55})$ $+ \frac{3}{55}\sqrt{79e^5} \otimes e_7 + \frac{6}{55}\sqrt{31e^3} \otimes e_9$	{123568, 1345, 2589, 4569}
942:6	$0, 0, 0, 0, 0, \frac{82}{5805}\sqrt{589e^{12}}, \frac{41}{5805}\sqrt{2354e^{13}} + \frac{82}{5805}\sqrt{305e^{24}},$ $\frac{41}{215}\sqrt{6e^{16}}, \frac{41}{5805}\sqrt{966e^{26}}$	$(\frac{779}{5805}, -\frac{287}{1935}, -\frac{902}{5805}, \frac{82}{645}, \frac{2378}{5805}, -\frac{82}{5805}, -\frac{41}{1935}, \frac{697}{5805}, -\frac{943}{5805})$ $+ \frac{1189}{5805}\sqrt{6e^1} \otimes e_3 + \frac{164}{5805}\sqrt{113e^4} \otimes e_9 + \frac{82}{5805}\sqrt{967e^5} \otimes e_8$	{1248, 359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:6	$0, 0, 0, 0, 0, \frac{3}{1133}\sqrt{7698}e^{12}, \frac{4}{1133}\sqrt{47471}e^{13} + \frac{1}{1133}\sqrt{38490}e^{24},$ $\frac{1}{1133}\sqrt{736442}e^{16}, \frac{4}{1133}\sqrt{3849}e^{26}$	$(-\frac{356}{1133}, \frac{266}{1133}, \frac{837}{1133}, \frac{215}{1133}, \frac{200}{1133}, -\frac{90}{1133}, \frac{481}{1133}, -\frac{446}{1133}, \frac{16}{103})$ $+ \frac{1}{1133}\sqrt{2394078}e^3 \otimes e_8$	{123569, 12369, 15789, 1789, 23457, 2347, 4568, 468}
942:6	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{91142}e^{13} + \frac{4}{353}\sqrt{3206}e^{24},$ $\frac{3}{353}\sqrt{5954}e^{16}, \frac{2}{353}\sqrt{22213}e^{26}$	$(-\frac{25}{353}, -\frac{25}{353}, \frac{154}{353}, \frac{154}{353}, \frac{42}{353}, -\frac{50}{353}, \frac{129}{353}, -\frac{75}{353}, -\frac{75}{353})$ $+ \frac{1}{353}\sqrt{142438}e^3 \otimes e_9$	{123568, 12368, 134, 1345, 2589, 289, 4569, 469}
942:6	$0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{5}{1091}\sqrt{51034}e^{13} + \frac{1}{1091}\sqrt{351866}e^{24},$ $\frac{1}{1091}\sqrt{400214}e^{16}, \frac{2}{1091}\sqrt{103411}e^{26}$	$(-\frac{90}{1091}, \frac{213}{1091}, \frac{616}{1091}, \frac{313}{1091}, \frac{727}{1091}, \frac{123}{1091}, \frac{526}{1091}, \frac{33}{1091}, \frac{336}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^3 \otimes e_5$	{12368, 1245678, 134, 157, 234789, 2589, 3679, 4569}
942:6	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{3}{55}\sqrt{43}e^{13} + \frac{3}{55}\sqrt{43}e^{24}, \frac{9}{55}e^{16}, \frac{9}{55}e^{26}$	$(-\frac{3}{55}, -\frac{3}{55}, \frac{9}{55}, \frac{9}{55}, \frac{24}{55}, -\frac{6}{55}, \frac{6}{55}, -\frac{9}{55}, -\frac{9}{55})$ $+ \frac{3}{55}\sqrt{62}e^3 \otimes e_8 + \frac{3}{55}\sqrt{62}e^4 \otimes e_9 + \frac{3}{55}\sqrt{79}e^5 \otimes e_7$	{123456, 1478, 5689}
942:6	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{3}{55}\sqrt{43}e^{13} + \frac{3}{55}\sqrt{43}e^{24}, \frac{9}{55}e^{16}, \frac{9}{55}e^{26}$	$(-\frac{3}{55}, -\frac{3}{55}, \frac{9}{55}, \frac{9}{55}, \frac{24}{55}, -\frac{6}{55}, \frac{6}{55}, -\frac{9}{55}, -\frac{9}{55})$ $+ \frac{3}{55}\sqrt{62}e^3 \otimes e_8 - \frac{3}{55}\sqrt{62}e^4 \otimes e_9 + \frac{3}{55}\sqrt{79}e^5 \otimes e_7$	{123456, 1478, 5689}
942:6	$0, 0, 0, 0, 0, \frac{3}{391}\sqrt{454}e^{12}, \frac{3}{391}\sqrt{7718}e^{13} + \frac{2}{391}\sqrt{9534}e^{24}, \frac{1}{391}\sqrt{26786}e^{16},$ $\frac{10}{391}\sqrt{681}e^{26}$	$(-\frac{43}{391}, \frac{15}{391}, \frac{154}{391}, \frac{126}{391}, \frac{126}{391}, -\frac{58}{391}, \frac{111}{391}, -\frac{101}{391}, -\frac{73}{391})$ $+ \frac{1}{391}\sqrt{120310}e^3 \otimes e_9 + \frac{2}{391}\sqrt{9534}e^5 \otimes e_8$	{12368, 1345, 289, 4569}
942:6	$0, 0, 0, 0, 0, \frac{12}{347}\sqrt{226}e^{12}, \frac{1}{347}\sqrt{9605}e^{13} + \frac{1}{347}\sqrt{9605}e^{24}, \frac{2}{347}\sqrt{3277}e^{16},$ $\frac{2}{347}\sqrt{3277}e^{26}$	$(\frac{30}{347}, \frac{30}{347}, -\frac{83}{347}, -\frac{83}{347}, \frac{32}{347}, \frac{60}{347}, -\frac{53}{347}, \frac{90}{347}, \frac{90}{347})$ $+ \frac{3}{347}\sqrt{3955}e^1 \otimes e_3 - \frac{3}{347}\sqrt{3955}e^2 \otimes e_4$	{12589, 1289, 14569, 1469, 34, 345}
942:6	$0, 0, 0, 0, 0, \frac{12}{347}\sqrt{226}e^{12}, \frac{1}{347}\sqrt{9605}e^{13} + \frac{1}{347}\sqrt{9605}e^{24}, \frac{2}{347}\sqrt{3277}e^{16},$ $\frac{2}{347}\sqrt{3277}e^{26}$	$(\frac{30}{347}, \frac{30}{347}, -\frac{83}{347}, -\frac{83}{347}, \frac{32}{347}, \frac{60}{347}, -\frac{53}{347}, \frac{90}{347}, \frac{90}{347})$ $+ \frac{3}{347}\sqrt{3955}e^1 \otimes e_3 + \frac{3}{347}\sqrt{3955}e^2 \otimes e_4$	{12589, 1289, 14569, 1469, 34, 345}
942:6	$0, 0, 0, 0, 0, \frac{3}{139}\sqrt{341}e^{12}, \frac{1}{278}\sqrt{27962}e^{13} + \frac{1}{278}\sqrt{24211}e^{24},$ $\frac{1}{139}\sqrt{20119}e^{16}, \frac{1}{278}\sqrt{23870}e^{26}$	$(-\frac{93}{556}, \frac{15}{139}, \frac{179}{556}, \frac{13}{278}, 1, -\frac{33}{556}, \frac{43}{278}, -\frac{63}{278}, \frac{27}{556})$ $+ \frac{3}{278}\sqrt{17391}e^5 \otimes e_8$	{12378, 1248, 134567, 156, 234689, 26789, 359, 4579}
942:6	$0, 0, 0, 0, 0, \frac{2}{2961}\sqrt{4885}e^{12}, \frac{2}{2961}\sqrt{584246}e^{13} + \frac{2}{2961}\sqrt{270629}e^{24},$ $\frac{4}{987}\sqrt{4885}e^{16}, \frac{4}{2961}\sqrt{137757}e^{26}$	$(-\frac{149}{987}, \frac{44}{2961}, \frac{368}{987}, \frac{613}{2961}, \frac{1595}{2961}, -\frac{403}{2961}, \frac{73}{329}, -\frac{850}{2961}, -\frac{359}{2961})$ $+ \frac{2}{2961}\sqrt{1230043}e^5 \otimes e_9 + \frac{2}{2961}\sqrt{1334582}e^3 \otimes e_8$	{124789, 13469, 2568, 357}
942:6	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1455}e^{12}, \frac{4}{293}\sqrt{1455}e^{13} + \frac{12}{293}\sqrt{97}e^{24}, \frac{5}{293}\sqrt{194}e^{16},$ $\frac{1}{293}\sqrt{18042}e^{26}$	$(\frac{13}{293}, -\frac{24}{293}, \frac{62}{293}, \frac{99}{293}, -\frac{84}{293}, -\frac{11}{293}, \frac{75}{293}, \frac{2}{293}, -\frac{35}{293})$ $+ \frac{2}{293}\sqrt{21534}e^1 \otimes e_5 + \frac{1}{293}\sqrt{30070}e^3 \otimes e_9$	{12479, 16789, 234567, 3578}
942:6	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{55}e^{12}, \frac{1}{15}\sqrt{30}e^{13} + \frac{1}{15}\sqrt{15}e^{24}, \frac{1}{15}\sqrt{35}e^{16},$ $\frac{1}{15}\sqrt{10}e^{26}$	$(\frac{1}{6}, 0, -\frac{1}{6}, 0, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{3}, \frac{1}{6})$ $+ \frac{1}{15}\sqrt{65}e^2 \otimes e_5 + \frac{1}{15}\sqrt{70}e^1 \otimes e_3$	{12489, 1569, 23468, 35}
942:6	$0, 0, 0, 0, 0, \frac{1}{1177}\sqrt{351390}e^{12}, \frac{39}{1177}\sqrt{170}e^{13} + \frac{4}{1177}\sqrt{12597}e^{24},$ $\frac{4}{1177}\sqrt{25194}e^{16}, \frac{1}{1177}\sqrt{46410}e^{26}$	$(\frac{378}{1177}, -\frac{316}{1177}, -\frac{285}{1177}, \frac{409}{1177}, \frac{136}{1177}, \frac{62}{1177}, \frac{93}{1177}, \frac{40}{107}, -\frac{254}{1177})$ $+ \frac{4}{1177}\sqrt{51051}e^1 \otimes e_3 + \frac{85}{1177}\sqrt{78}e^4 \otimes e_9$	{1569, 169, 234568, 23468}
942:6	$0, 0, 0, 0, 0, \frac{2}{211}\sqrt{1235}e^{12}, \frac{14}{211}\sqrt{65}e^{13} + \frac{22}{211}\sqrt{13}e^{24}, \frac{2}{211}\sqrt{1079}e^{16},$ $\frac{2}{211}\sqrt{533}e^{26}$	$(-\frac{38}{211}, \frac{24}{211}, \frac{52}{211}, -\frac{10}{211}, \frac{118}{211}, -\frac{14}{211}, \frac{14}{211}, -\frac{52}{211}, \frac{10}{211})$ $+ \frac{2}{211}\sqrt{5083}e^5 \otimes e_7 + \frac{4}{211}\sqrt{1209}e^3 \otimes e_8$	{1234569, 14789, 237, 568}
942:6	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{19923}e^{13} + \frac{1}{353}\sqrt{19923}e^{24},$ $\frac{1}{353}\sqrt{17633}e^{16}, \frac{1}{353}\sqrt{17633}e^{26}$	$(-\frac{25}{353}, -\frac{25}{353}, \frac{154}{353}, \frac{154}{353}, \frac{42}{353}, -\frac{50}{353}, \frac{129}{353}, -\frac{75}{353}, -\frac{75}{353})$ $+ \frac{1}{353}\sqrt{71219}e^3 \otimes e_8 - \frac{1}{353}\sqrt{71219}e^4 \otimes e_9$	{123456, 12346, 14578, 1478, 5689, 689}
942:6	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{19923}e^{13} + \frac{1}{353}\sqrt{19923}e^{24},$ $\frac{1}{353}\sqrt{17633}e^{16}, \frac{1}{353}\sqrt{17633}e^{26}$	$(-\frac{25}{353}, -\frac{25}{353}, \frac{154}{353}, \frac{154}{353}, \frac{42}{353}, -\frac{50}{353}, \frac{129}{353}, -\frac{75}{353}, -\frac{75}{353})$ $+ \frac{1}{353}\sqrt{71219}e^3 \otimes e_8 + \frac{1}{353}\sqrt{71219}e^4 \otimes e_9$	{123456, 12346, 14578, 1478, 5689, 689}
942:6	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{37}e^{12}, \frac{6}{25}e^{13} + \frac{6}{25}e^{24}, \frac{2}{25}\sqrt{15}e^{16}, \frac{2}{25}\sqrt{15}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{42}e^1 \otimes e_3 + \frac{2}{25}\sqrt{42}e^2 \otimes e_4 + \frac{2}{25}\sqrt{7}e^5 \otimes e_7$	{12589, 14569, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:6	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{37}e^{12}, \frac{6}{25}e^{13} + \frac{6}{25}e^{24}, \frac{2}{25}\sqrt{15}e^{16}, \frac{2}{25}\sqrt{15}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{42}e^1 \otimes e_3 - \frac{2}{25}\sqrt{42}e^2 \otimes e_4 + \frac{2}{25}\sqrt{7}e^5 \otimes e_7$	{12589, 14569, 345}
942:6	$0, 0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{1}{25}\sqrt{5}e^{13} + \frac{1}{25}\sqrt{105}e^{24}, \frac{1}{25}\sqrt{55}e^{16}, \frac{1}{25}\sqrt{15}e^{26}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{2}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{1}{25}\sqrt{15}e^5 \otimes e_7 + \frac{2}{25}\sqrt{35}e^1 \otimes e_3 + \frac{4}{25}\sqrt{10}e^4 \otimes e_9$	{12789, 347}
942:6	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{39}e^{12}, \frac{1}{22}\sqrt{65}e^{13} + \frac{1}{22}\sqrt{26}e^{24}, \frac{1}{22}\sqrt{130}e^{16}, \frac{1}{11}\sqrt{13}e^{26}$	$(\frac{3}{11}, -\frac{9}{44}, -\frac{7}{22}, \frac{7}{44}, \frac{5}{11}, \frac{3}{44}, -\frac{1}{22}, \frac{15}{44}, -\frac{3}{22})$ $+ \frac{1}{11}\sqrt{78}e^1 \otimes e_3 + \frac{1}{22}\sqrt{195}e^5 \otimes e_9$	{1289, 1469, 23568, 345}
942:6	$0, 0, 0, 0, 0, \frac{3}{1477}\sqrt{18190}e^{12}, \frac{3}{1477}\sqrt{65270}e^{13} + \frac{6}{1477}\sqrt{5885}e^{24}, \frac{6}{1477}\sqrt{7811}e^{16}, \frac{3}{1477}\sqrt{62702}e^{26}$	$(\frac{86}{1477}, -\frac{158}{1477}, \frac{489}{1477}, \frac{733}{1477}, -\frac{474}{1477}, -\frac{72}{1477}, \frac{575}{1477}, \frac{2}{211}, -\frac{230}{1477})$ $+ \frac{3}{1477}\sqrt{146162}e^4 \otimes e_9 + \frac{6}{1477}\sqrt{33919}e^3 \otimes e_5$	{123468, 1457, 23789, 569}
942:6	$0, 0, 0, 0, 0, \frac{12}{2449}\sqrt{8063}e^{12}, \frac{4}{2449}\sqrt{40315}e^{13} + \frac{22}{2449}\sqrt{733}e^{24}, \frac{8}{2449}\sqrt{16126}e^{16}, \frac{2}{2449}\sqrt{185449}e^{26}$	$(\frac{561}{2449}, -\frac{458}{2449}, \frac{92}{2449}, \frac{1111}{2449}, -\frac{905}{2449}, \frac{103}{2449}, \frac{653}{2449}, \frac{664}{2449}, -\frac{355}{2449})$ $+ \frac{2}{2449}\sqrt{892061}e^1 \otimes e_5 + \frac{4}{2449}\sqrt{168590}e^4 \otimes e_9$	{12789, 1369, 24568, 3457}
942:6	$0, 0, 0, 0, 0, \frac{102}{281}e^{12}, \frac{17}{1405}\sqrt{458}e^{13} + \frac{34}{1405}\sqrt{29}e^{24}, \frac{17}{1405}\sqrt{790}e^{16}, \frac{17}{1405}\sqrt{106}e^{26}$	$(\frac{51}{1405}, \frac{51}{1405}, -\frac{238}{1405}, -\frac{238}{1405}, \frac{442}{1405}, \frac{102}{1405}, -\frac{187}{1405}, \frac{153}{1405}, \frac{153}{1405})$ $+ \frac{102}{1405}\sqrt{19}e^5 \otimes e_8 - \frac{102}{1405}\sqrt{22}e^2 \otimes e_4 + \frac{153}{1405}\sqrt{14}e^1 \otimes e_3$	{1289, 14569, 2368, 345}
942:6	$0, 0, 0, 0, 0, \frac{102}{281}e^{12}, \frac{17}{1405}\sqrt{458}e^{13} + \frac{34}{1405}\sqrt{29}e^{24}, \frac{17}{1405}\sqrt{790}e^{16}, \frac{17}{1405}\sqrt{106}e^{26}$	$(\frac{51}{1405}, \frac{51}{1405}, -\frac{238}{1405}, -\frac{238}{1405}, \frac{442}{1405}, \frac{102}{1405}, -\frac{187}{1405}, \frac{153}{1405}, \frac{153}{1405})$ $+ \frac{102}{1405}\sqrt{19}e^5 \otimes e_8 + \frac{102}{1405}\sqrt{22}e^2 \otimes e_4 + \frac{153}{1405}\sqrt{14}e^1 \otimes e_3$	{1289, 14569, 2368, 345}
942:7	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{21}e^{34}, \frac{1}{28}\sqrt{70}e^{16}, \frac{1}{28}\sqrt{210}e^{13} + \frac{1}{28}\sqrt{42}e^{26}$	$(-\frac{11}{56}, \frac{3}{28}, \frac{3}{14}, 0, \frac{29}{56}, -\frac{5}{56}, \frac{3}{14}, -\frac{2}{7}, \frac{1}{56})$ $+ \frac{1}{28}\sqrt{322}e^5 \otimes e_9 + \frac{3}{28}\sqrt{42}e^3 \otimes e_8$	{123456, 123567, 2349, 2379}
942:7	$0, 0, 0, 0, 0, \frac{21}{767}\sqrt{3}e^{12}, \frac{14}{767}\sqrt{345}e^{34}, \frac{7}{767}\sqrt{366}e^{16}, \frac{7}{767}\sqrt{462}e^{13} + \frac{7}{767}\sqrt{366}e^{26}$	$(-\frac{70}{767}, \frac{7}{767}, \frac{14}{767}, \frac{7}{767}, \frac{252}{59}, \frac{63}{767}, -\frac{105}{767}, -\frac{133}{767}, -\frac{56}{767})$ $+ \frac{7}{767}\sqrt{1131}e^5 \otimes e_7 + \frac{7}{767}\sqrt{1545}e^3 \otimes e_8 + \frac{7}{767}\sqrt{1545}e^4 \otimes e_9$	{123456, 2379}
942:7	$0, 0, 0, 0, 0, \frac{4}{3127}\sqrt{124441}e^{12}, \frac{428}{3127}\sqrt{7}e^{34}, \frac{12}{3127}\sqrt{7062}e^{16}, \frac{4}{3127}\sqrt{38734}e^{13} + \frac{4}{3127}\sqrt{49755}e^{26}$	$(\frac{490}{3127}, -\frac{1}{3127}, -\frac{2}{3127}, -\frac{364}{3127}, -\frac{857}{3127}, \frac{489}{3127}, -\frac{366}{3127}, \frac{979}{3127}, \frac{488}{3127})$ $+ \frac{12}{3127}\sqrt{14766}e^2 \otimes e_5 + \frac{40}{3127}\sqrt{1605}e^1 \otimes e_7$	{123489, 134569, 23678, 357}
942:7	$0, 0, 0, 0, 0, \frac{14}{247}\sqrt{66}e^{12}, \frac{14}{247}\sqrt{66}e^{34}, \frac{7}{247}\sqrt{66}e^{16}, \frac{7}{247}\sqrt{286}e^{13} + \frac{7}{247}\sqrt{2}e^{26}$	$(\frac{14}{247}, 0, 0, -\frac{49}{247}, \frac{77}{247}, \frac{14}{247}, -\frac{49}{247}, \frac{28}{247}, \frac{14}{247})$ $+ \frac{7}{247}\sqrt{434}e^2 \otimes e_7 + \frac{7}{247}\sqrt{82}e^5 \otimes e_8 + \frac{7}{247}\sqrt{94}e^3 \otimes e_4$	{123489, 23468}
942:7	$0, 0, 0, 0, 0, \frac{8}{227}\sqrt{218}e^{12}, \frac{8}{227}\sqrt{218}e^{34}, \frac{24}{227}\sqrt{2}e^{16}, \frac{80}{227}\sqrt{2}e^{13} + \frac{16}{227}\sqrt{53}e^{26}$	$(\frac{15}{227}, \frac{12}{227}, \frac{24}{227}, -\frac{76}{227}, \frac{33}{227}, \frac{27}{227}, -\frac{52}{227}, \frac{42}{227}, \frac{39}{227})$ $+ \frac{16}{227}\sqrt{97}e^2 \otimes e_7$	{1234589, 123489, 135679, 13679, 234568, 23468, 357, 37}
942:7	$0, 0, 0, 0, 0, \frac{52}{989}\sqrt{53}e^{12}, \frac{52}{989}\sqrt{53}e^{34}, \frac{12}{989}\sqrt{1166}e^{16}, \frac{24}{989}\sqrt{265}e^{13} + \frac{4}{989}\sqrt{4611}e^{26}$	$(\frac{140}{989}, \frac{35}{989}, \frac{70}{989}, -\frac{354}{989}, \frac{117}{989}, \frac{175}{989}, -\frac{284}{989}, \frac{315}{989}, \frac{210}{989})$ $+ \frac{4}{989}\sqrt{16006}e^3 \otimes e_4 + \frac{4}{989}\sqrt{30210}e^1 \otimes e_7$	{2356789, 236789, 3579, 379}
942:7	$0, 0, 0, 0, 0, \frac{7}{1919}\sqrt{7062}e^{12}, \frac{14}{1919}\sqrt{3014}e^{34}, \frac{21}{1919}\sqrt{902}e^{16}, \frac{385}{1919}\sqrt{2}e^{13} + \frac{84}{1919}\sqrt{22}e^{26}$	$(\frac{273}{1919}, \frac{35}{1919}, \frac{70}{1919}, -\frac{336}{1919}, -\frac{469}{1919}, \frac{308}{1919}, -\frac{14}{1919}, \frac{581}{1919}, \frac{343}{1919})$ $+ \frac{42}{1919}\sqrt{627}e^1 \otimes e_7 + \frac{7}{1919}\sqrt{14982}e^3 \otimes e_5$	{12348, 1346, 236789, 379}
942:7	$0, 0, 0, 0, 0, \frac{156}{5215}\sqrt{22}e^{12}, \frac{39}{5215}\sqrt{474}e^{34}, \frac{39}{5215}\sqrt{34}e^{16}, \frac{52}{5215}\sqrt{149}e^{13} + \frac{52}{5215}\sqrt{273}e^{26}$	$(\frac{286}{5215}, -\frac{208}{5215}, -\frac{416}{5215}, \frac{39}{5215}, \frac{533}{5215}, \frac{78}{5215}, -\frac{377}{5215}, \frac{52}{5215}, -\frac{26}{1043})$ $+ \frac{13}{5215}\sqrt{6070}e^2 \otimes e_7 + \frac{39}{5215}\sqrt{366}e^4 \otimes e_9 + \frac{52}{5215}e^5 \otimes e_8$	{136789, 23456}
942:7	$0, 0, 0, 0, 0, \frac{3}{52}\sqrt{29}e^{12}, \frac{5}{208}\sqrt{290}e^{34}, \frac{1}{104}\sqrt{870}e^{16}, \frac{1}{208}\sqrt{2378}e^{13} + \frac{3}{104}\sqrt{58}e^{26}$	$(\frac{21}{104}, -\frac{29}{208}, -\frac{29}{104}, \frac{21}{104}, \frac{25}{208}, \frac{1}{16}, -\frac{1}{13}, \frac{55}{208}, -\frac{1}{13})$ $- \frac{1}{208}\sqrt{9222}e^4 \otimes e_9 + \frac{3}{208}\sqrt{1334}e^1 \otimes e_7$	{12589, 1289, 1569, 169, 245678, 24678, 457, 47}
942:7	$0, 0, 0, 0, 0, \frac{3}{52}\sqrt{29}e^{12}, \frac{5}{208}\sqrt{290}e^{34}, \frac{1}{104}\sqrt{870}e^{16}, \frac{1}{208}\sqrt{2378}e^{13} + \frac{3}{104}\sqrt{58}e^{26}$	$(\frac{21}{104}, -\frac{29}{208}, -\frac{29}{104}, \frac{21}{104}, \frac{25}{208}, \frac{1}{16}, -\frac{1}{13}, \frac{55}{208}, -\frac{1}{13})$ $+ \frac{1}{208}\sqrt{9222}e^4 \otimes e_9 + \frac{3}{208}\sqrt{1334}e^1 \otimes e_7$	{12589, 1289, 1569, 169, 245678, 24678, 457, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:7	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5e}^{12}, \frac{12}{497}\sqrt{231e}^{34}, \frac{4}{497}\sqrt{714e}^{16},$ $\frac{12}{497}\sqrt{70e}^{13} + \frac{4}{497}\sqrt{3927e}^{26}$	$(\frac{2}{71}, -\frac{1}{71}, -\frac{2}{71}, \frac{24}{71}, -\frac{25}{71}, \frac{1}{71}, \frac{22}{71}, \frac{3}{71}, 0)$ $+ \frac{4}{497}\sqrt{4830e^2} \otimes e_5 + \frac{8}{497}\sqrt{1113e^4} \otimes e_9$	{12379, 1356789, 2346, 3458}
942:7	$0, 0, 0, 0, 0, \frac{44}{3085}\sqrt{111e}^{12}, \frac{66}{3085}\sqrt{94e}^{34}, \frac{22}{3085}\sqrt{943e}^{16},$ $\frac{22}{3085}\sqrt{381e}^{13} + \frac{22}{3085}\sqrt{291e}^{26}$	$(-\frac{11}{617}, \frac{132}{3085}, \frac{264}{3085}, -\frac{561}{3085}, \frac{451}{3085}, \frac{77}{3085}, -\frac{297}{3085}, \frac{22}{3085}, \frac{209}{3085})$ $+ \frac{22}{3085}\sqrt{166e^5} \otimes e_9 + \frac{44}{3085}\sqrt{357e^1} \otimes e_7 + \frac{66}{3085}\sqrt{134e^3} \otimes e_8$	{13456, 379}
942:7	$0, 0, 0, 0, 0, \frac{12}{107}\sqrt{13e}^{12}, \frac{12}{107}\sqrt{13e}^{34}, \frac{4}{107}\sqrt{3e}^{16},$ $\frac{12}{107}\sqrt{10e}^{13} + \frac{4}{107}\sqrt{138e}^{26}$	$(\frac{5}{107}, \frac{2}{107}, \frac{4}{107}, -\frac{26}{107}, \frac{33}{107}, \frac{7}{107}, -\frac{22}{107}, \frac{12}{107}, \frac{9}{107})$ $+ \frac{4}{107}\sqrt{222e^2} \otimes e_7 + \frac{8}{107}\sqrt{15e^5} \otimes e_9$	{12349, 136789, 23456, 3578}
942:7	$0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}e^{34}, \frac{1}{4}\sqrt{3e}^{16}, \frac{3}{4}\sqrt{2e}^{13} + \frac{1}{4}\sqrt{3e}^{26}$	$(-\frac{1}{8}, \frac{13}{40}, \frac{13}{20}, -\frac{3}{5}, \frac{3}{20}, \frac{1}{5}, \frac{1}{20}, \frac{3}{40}, \frac{21}{40})$ $+ \frac{1}{4}\sqrt{34e^3} \otimes e_4$	{1245689, 124689, 1459, 149, 2458, 248, 456, 46}
942:7	$0, 0, 0, 0, 0, \frac{120}{4489}\sqrt{37e}^{12}, \frac{4}{4489}\sqrt{61790e}^{34}, \frac{2}{4489}\sqrt{279165e}^{16},$ $\frac{74}{4489}\sqrt{65e}^{13} + \frac{2}{4489}\sqrt{96015e}^{26}$	$(-\frac{69}{4489}, \frac{232}{4489}, \frac{464}{4489}, -\frac{903}{4489}, \frac{433}{4489}, \frac{163}{4489}, -\frac{439}{4489}, \frac{94}{4489}, \frac{395}{4489})$ $+ \frac{4}{4489}\sqrt{85470e^3} \otimes e_8 + \frac{8}{4489}\sqrt{25530e^1} \otimes e_7$	{13456, 1346, 3579, 379}
942:7	$0, 0, 0, 0, 0, \frac{6}{4073}\sqrt{10302e}^{12}, \frac{6}{4073}\sqrt{132310e}^{34}, \frac{6}{4073}\sqrt{85749e}^{16},$ $\frac{6}{4073}\sqrt{14443e}^{13} + \frac{6}{4073}\sqrt{18281e}^{26}$	$(-\frac{645}{4073}, \frac{528}{4073}, \frac{1056}{4073}, \frac{703}{4073}, -\frac{1115}{4073}, -\frac{117}{4073}, \frac{1759}{4073}, -\frac{762}{4073}, \frac{411}{4073})$ $+ \frac{12}{4073}\sqrt{39491e^4} \otimes e_5 + \frac{12}{4073}\sqrt{52015e^3} \otimes e_8$	{1346, 13567, 349, 3579}
942:7	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{82e}^{12}, \frac{2}{67}\sqrt{1066e}^{34}, \frac{2}{67}\sqrt{246e}^{16},$ $\frac{2}{67}\sqrt{451e}^{13} + \frac{2}{67}\sqrt{246e}^{26}$	$(\frac{10}{67}, -\frac{1}{67}, -\frac{2}{67}, \frac{41}{67}, -\frac{41}{67}, \frac{9}{67}, \frac{39}{67}, \frac{19}{67}, \frac{8}{67})$ $+ \frac{6}{67}\sqrt{246e^4} \otimes e_5$	{123489, 1235789, 13469, 135679, 23468, 235678, 34, 357}
942:7	$0, 0, 0, 0, 0, \frac{20}{2191}\sqrt{1705e}^{12}, \frac{4}{2191}\sqrt{51645e}^{34}, \frac{44}{2191}\sqrt{105e}^{16},$ $\frac{4}{2191}\sqrt{34430e}^{13} + \frac{4}{2191}\sqrt{38390e}^{26}$	$(-\frac{107}{2191}, \frac{226}{2191}, \frac{452}{2191}, -\frac{666}{2191}, \frac{39}{2191}, \frac{17}{2191}, -\frac{214}{2191}, \frac{12}{2191}, \frac{345}{2191})$ $+ \frac{4}{2191}\sqrt{78430e^2} \otimes e_7 + \frac{8}{2191}\sqrt{6765e^3} \otimes e_8$	{135679, 13679, 357, 37}
942:7	$0, 0, 0, 0, 0, \frac{12}{1357}\sqrt{1785e}^{12}, \frac{12}{1357}\sqrt{1785e}^{34}, \frac{40}{1357}\sqrt{255e}^{16},$ $\frac{12}{1357}\sqrt{238e}^{13} + \frac{4}{1357}\sqrt{5151e}^{26}$	$(\frac{130}{1357}, -\frac{1}{23}, \frac{2}{23}, -\frac{160}{1357}, \frac{609}{1357}, \frac{71}{1357}, -\frac{278}{1357}, \frac{201}{1357}, \frac{12}{1357})$ $+ \frac{136}{1357}\sqrt{33e^1} \otimes e_7 + \frac{4}{1357}\sqrt{23154e^5} \otimes e_8$	{128, 156, 246789, 4579}
942:7	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{30e}^{12}, \frac{4}{47}\sqrt{30e}^{34}, \frac{6}{47}\sqrt{10e}^{16},$ $\frac{2}{47}\sqrt{123e}^{13} + \frac{6}{47}\sqrt{10e}^{26}$	$(-\frac{4}{47}, \frac{3}{47}, \frac{6}{47}, \frac{13}{47}, -\frac{15}{47}, -\frac{1}{47}, \frac{19}{47}, -\frac{5}{47}, \frac{2}{47})$ $+ \frac{2}{47}\sqrt{186e^2} \otimes e_5 + \frac{2}{47}\sqrt{186e^4} \otimes e_8$	{123789, 134569, 23678, 345}
942:7	$0, 0, 0, 0, 0, \frac{4}{233}\sqrt{1387e}^{12}, \frac{4}{233}\sqrt{1387e}^{34}, \frac{18}{233}\sqrt{73e}^{16},$ $\frac{4}{233}\sqrt{365e}^{13} + \frac{4}{233}\sqrt{1095e}^{26}$	$(\frac{71}{233}, -\frac{20}{233}, -\frac{40}{233}, -\frac{35}{233}, \frac{41}{233}, \frac{51}{233}, -\frac{75}{233}, \frac{122}{233}, \frac{31}{233})$ $+ \frac{16}{233}\sqrt{219e^1} \otimes e_7$	{123458, 12348, 13456, 1346, 2356789, 236789, 3579, 379}
942:7	$0, 0, 0, 0, 0, \frac{12}{265}\sqrt{55e}^{12}, \frac{12}{265}\sqrt{55e}^{34}, \frac{4}{265}\sqrt{615e}^{16},$ $\frac{8}{265}\sqrt{435e}^{13} + \frac{4}{265}\sqrt{10e}^{26}$	$(-\frac{5}{53}, \frac{26}{265}, \frac{52}{265}, -\frac{68}{265}, \frac{147}{265}, \frac{1}{265}, -\frac{16}{265}, -\frac{24}{265}, \frac{27}{265})$ $+ \frac{4}{265}\sqrt{1770e^3} \otimes e_4 + \frac{4}{53}\sqrt{78e^5} \otimes e_9$	{123568, 135, 2389, 369}
942:7	$0, 0, 0, 0, 0, \frac{8}{2287}\sqrt{24886e}^{12}, \frac{8}{2287}\sqrt{5106e}^{34}, \frac{16}{2287}\sqrt{897e}^{16},$ $\frac{32}{2287}\sqrt{138e}^{13} + \frac{72}{2287}\sqrt{322e}^{26}$	$(-\frac{130}{2287}, \frac{467}{2287}, \frac{934}{2287}, -\frac{538}{2287}, -\frac{1005}{2287}, \frac{337}{2287}, \frac{396}{2287}, \frac{207}{2287}, \frac{804}{2287})$ $+ \frac{16}{2287}\sqrt{14835e^2} \otimes e_5 + \frac{32}{2287}\sqrt{2047e^3} \otimes e_4$	{12379, 1356789, 2367, 3578}
942:7	$0, 0, 0, 0, 0, \frac{4}{219}\sqrt{782e}^{12}, \frac{4}{219}\sqrt{782e}^{34}, \frac{8}{219}\sqrt{714e}^{16},$ $\frac{4}{219}\sqrt{238e}^{13} + \frac{4}{219}\sqrt{170e}^{26}$	$(-\frac{38}{219}, \frac{23}{219}, \frac{46}{219}, \frac{6}{73}, 1, -\frac{5}{73}, \frac{64}{219}, -\frac{53}{219}, \frac{8}{219})$ $+ \frac{8}{219}\sqrt{1513e^5} \otimes e_8$	{12478, 128, 14567, 156, 246789, 2689, 4579, 59}
942:7	$0, 0, 0, 0, 0, \frac{2}{1697}\sqrt{14190e}^{12}, \frac{5}{1697}\sqrt{3058e}^{34}, \frac{1}{1697}\sqrt{5610e}^{16},$ $\frac{2}{1697}\sqrt{10670e}^{13} + \frac{4}{1697}\sqrt{4895e}^{26}$	$(\frac{94}{1697}, -\frac{68}{1697}, -\frac{136}{1697}, \frac{13}{1697}, \frac{171}{1697}, \frac{26}{1697}, -\frac{123}{1697}, \frac{120}{1697}, -\frac{42}{1697})$ $+ \frac{1}{1697}\sqrt{108790e^2} \otimes e_7 + \frac{1}{1697}\sqrt{59070e^4} \otimes e_9$	{1356789, 136789, 23456, 2346}
942:7	$0, 0, 0, 0, 0, \frac{1}{1145}\sqrt{307142e}^{12}, \frac{1}{1145}\sqrt{280434e}^{34}, \frac{1}{1145}\sqrt{200310e}^{16},$ $\frac{1}{1145}\sqrt{93478e}^{13} + \frac{6}{1145}\sqrt{6677e}^{26}$	$(-\frac{188}{1145}, \frac{231}{1145}, \frac{462}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{43}{1145}, \frac{384}{1145}, -\frac{29}{229}, \frac{274}{1145})$ $+ \frac{1}{1145}\sqrt{562082e^3} \otimes e_8 + \frac{23}{1145}\sqrt{1214e^2} \otimes e_5$	{134569, 135679, 345, 357}
942:7	$0, 0, 0, 0, 0, \frac{18}{41}e^{12}, \frac{18}{41}e^{34}, \frac{3}{41}e^{16}, \frac{12}{41}\sqrt{2e}^{13} + \frac{6}{41}\sqrt{10e}^{26}$	$(\frac{3}{41}, 0, 0, -\frac{9}{41}, \frac{12}{41}, \frac{3}{41}, -\frac{9}{41}, \frac{6}{41}, \frac{3}{41})$ $+ \frac{3}{41}\sqrt{13e^5} \otimes e_9 + \frac{3}{41}\sqrt{65e^2} \otimes e_7 + \frac{3}{41}\sqrt{7e^3} \otimes e_4$	{123489, 234568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:7	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{3522e^{12}}, \frac{1}{787}\sqrt{120922e^{34}}, \frac{3}{787}\sqrt{1174e^{16}},$ $\frac{1}{787}\sqrt{144402e^{13}} + \frac{3}{787}\sqrt{1174e^{26}}$	$(-\frac{15}{787}, \frac{108}{787}, \frac{216}{787}, -\frac{371}{787}, \frac{432}{787}, \frac{93}{787}, -\frac{155}{787}, \frac{78}{787}, \frac{201}{787})$ $+\frac{1}{787}\sqrt{405030e^5} \otimes e_7 + \frac{1}{787}\sqrt{416770e^3} \otimes e_4$	{1246789, 1479, 2478, 467}
942:7	$0, 0, 0, 0, 0, \frac{2}{2153}\sqrt{41917e^{12}}, \frac{1}{2153}\sqrt{268870e^{34}}, \frac{6}{2153}\sqrt{7849e^{16}},$ $\frac{2}{2153}\sqrt{21877e^{13}} + \frac{1}{2153}\sqrt{41082e^{26}}$	$(\frac{158}{2153}, -\frac{164}{2153}, -\frac{328}{2153}, \frac{319}{2153}, \frac{215}{2153}, -\frac{6}{2153}, -\frac{9}{2153}, \frac{152}{2153}, -\frac{170}{2153})$ $+\frac{3}{2153}\sqrt{33734e^4} \otimes e_8 + \frac{7}{2153}\sqrt{7014e^1} \otimes e_7$	{1258, 128, 4579, 479}
942:7	$0, 0, 0, 0, 0, \frac{84}{1069}\sqrt{6e^{12}}, \frac{84}{1069}\sqrt{6e^{34}}, \frac{56}{1069}\sqrt{78e^{16}},$ $\frac{224}{1069}\sqrt{6e^{13}} + \frac{28}{1069}\sqrt{158e^{26}}$	$(-\frac{210}{1069}, \frac{217}{1069}, \frac{434}{1069}, -\frac{350}{1069}, \frac{581}{1069}, \frac{7}{1069}, \frac{84}{1069}, -\frac{203}{1069}, \frac{224}{1069})$ $+\frac{112}{1069}\sqrt{61e^3} \otimes e_4 + \frac{56}{1069}\sqrt{235e^5} \otimes e_8$	{124569, 1489, 245, 468}
942:7	$0, 0, 0, 0, 0, \frac{816}{4295}e^{12}, \frac{17}{4295}\sqrt{3666e^{34}}, \frac{34}{4295}\sqrt{982e^{16}},$ $\frac{272}{4295}\sqrt{6e^{13}} + \frac{17}{4295}\sqrt{786e^{26}}$	$(\frac{68}{4295}, -\frac{306}{4295}, -\frac{612}{4295}, \frac{663}{4295}, \frac{17}{4295}, \frac{34}{4295}, \frac{51}{4295}, \frac{374}{4295}, -\frac{272}{4295})$ $+\frac{17}{4295}\sqrt{4470e^1} \otimes e_7 + \frac{34}{4295}\sqrt{218e^5} \otimes e_9 + \frac{51}{4295}\sqrt{454e^4} \otimes e_8$	{128, 4579}
942:7	$0, 0, 0, 0, 0, \frac{132}{433}e^{12}, \frac{12}{433}\sqrt{149e^{34}}, \frac{60}{433}e^{16},$ $\frac{12}{433}\sqrt{78e^{13}} + \frac{12}{433}\sqrt{134e^{26}}$	$(-\frac{21}{433}, \frac{30}{433}, \frac{60}{433}, -\frac{102}{433}, \frac{111}{433}, \frac{9}{433}, -\frac{42}{433}, -\frac{12}{433}, \frac{39}{433})$ $+\frac{12}{433}\sqrt{238e^2} \otimes e_7 + \frac{24}{433}\sqrt{21e^3} \otimes e_8 + \frac{96}{433}e^5 \otimes e_9$	{13679, 357}
942:7	$0, 0, 0, 0, 0, \frac{6}{4073}\sqrt{10302e^{12}}, \frac{6}{4073}\sqrt{132310e^{34}}, \frac{6}{4073}\sqrt{18281e^{16}},$ $\frac{6}{4073}\sqrt{14443e^{13}} + \frac{6}{4073}\sqrt{85749e^{26}}$	$(\frac{385}{4073}, -\frac{502}{4073}, \frac{1004}{4073}, \frac{1199}{4073}, \frac{2013}{4073}, -\frac{117}{4073}, \frac{195}{4073}, \frac{268}{4073}, -\frac{619}{4073})$ $+\frac{12}{4073}\sqrt{39491e^5} \otimes e_7 + \frac{12}{4073}\sqrt{52015e^4} \otimes e_9$	{1259, 15689, 2467, 478}
942:7	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{125994e^{12}}, \frac{2}{1699}\sqrt{222387e^{34}}, \frac{3}{1699}\sqrt{65274e^{16}},$ $\frac{1}{1699}\sqrt{89562e^{13}} + \frac{46}{1699}\sqrt{33e^{26}}$	$(-\frac{221}{1699}, \frac{153}{1699}, \frac{306}{1699}, \frac{470}{1699}, -\frac{453}{1699}, -\frac{68}{1699}, \frac{776}{1699}, -\frac{289}{1699}, \frac{85}{1699})$ $+\frac{1}{1699}\sqrt{976074e^3} \otimes e_5 + \frac{2}{1699}\sqrt{328647e^4} \otimes e_8$	{1258, 14567, 25689, 4579}
942:7	$0, 0, 0, 0, 0, \frac{4}{863}\sqrt{7449e^{12}}, \frac{4}{863}\sqrt{7449e^{34}}, \frac{2}{863}\sqrt{27313e^{16}},$ $\frac{8}{863}\sqrt{23493e^{13}} + \frac{2}{863}\sqrt{7449e^{26}}$	$(\frac{169}{863}, -\frac{84}{863}, -\frac{168}{863}, -\frac{45}{863}, \frac{383}{863}, \frac{85}{863}, -\frac{213}{863}, \frac{254}{863}, \frac{1}{863})$ $+\frac{8}{863}\sqrt{3247e^5} \otimes e_9 + \frac{8}{863}\sqrt{5730e^1} \otimes e_7$	{1289, 169, 245678, 457}
942:7	$0, 0, 0, 0, 0, \frac{8}{127}\sqrt{77e^{12}}, \frac{8}{127}\sqrt{77e^{34}}, \frac{24}{127}e^{16},$ $\frac{32}{127}\sqrt{5e^{13}} + \frac{8}{127}\sqrt{74e^{26}}$	$(\frac{15}{127}, 0, 0, -\frac{32}{127}, \frac{21}{127}, \frac{15}{127}, -\frac{32}{127}, \frac{30}{127}, \frac{15}{127})$ $+\frac{16}{127}\sqrt{6e^3} \otimes e_4 + \frac{8}{127}\sqrt{130e^2} \otimes e_7$	{1234589, 123489, 234568, 23468}
942:7	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{2190e^{12}}, \frac{1}{323}\sqrt{56210e^{34}}, \frac{3}{323}\sqrt{730e^{16}},$ $\frac{2}{323}\sqrt{16790e^{13}} + \frac{3}{323}\sqrt{730e^{26}}$	$(-\frac{15}{323}, \frac{77}{323}, \frac{154}{323}, -\frac{21}{323}, -\frac{211}{323}, \frac{62}{323}, \frac{7}{323}, \frac{47}{323}, \frac{139}{323})$ $+\frac{1}{323}\sqrt{194910e^3} \otimes e_5$	{12456789, 125689, 14579, 159, 24578, 258, 4567, 56}
942:7	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42e^{12}}, \frac{2}{51}\sqrt{42e^{34}}, \frac{8}{51}\sqrt{7e^{16}},$ $\frac{2}{51}\sqrt{70e^{13}} + \frac{14}{51}e^{26}$	$(-\frac{4}{51}, \frac{2}{17}, \frac{4}{17}, -\frac{1}{51}, -\frac{6}{17}, \frac{2}{51}, \frac{11}{51}, -\frac{2}{51}, \frac{8}{51})$ $+\frac{2}{51}\sqrt{161e^1} \otimes e_5 + \frac{2}{51}\sqrt{161e^3} \otimes e_8$	{1346, 1367, 3459, 3579}
942:7	$0, 0, 0, 0, 0, \frac{12}{2095}\sqrt{2119e^{12}}, \frac{4}{2095}\sqrt{78729e^{34}}, \frac{4}{2095}\sqrt{66667e^{16}},$ $\frac{4}{2095}\sqrt{12714e^{13}} + \frac{4}{2095}\sqrt{36186e^{26}}$	$(-\frac{35}{419}, -\frac{66}{2095}, -\frac{132}{2095}, \frac{888}{2095}, \frac{997}{2095}, -\frac{241}{2095}, \frac{756}{2095}, -\frac{416}{2095}, -\frac{307}{2095})$ $+\frac{12}{2095}\sqrt{19886e^4} \otimes e_8 + \frac{8}{2095}\sqrt{29503e^5} \otimes e_9$	{123789, 13469, 235678, 345}
942:7	$0, 0, 0, 0, 0, \frac{4}{2191}\sqrt{51645e^{12}}, \frac{20}{2191}\sqrt{1705e^{34}}, \frac{44}{2191}\sqrt{105e^{16}},$ $\frac{4}{2191}\sqrt{34430e^{13}} + \frac{4}{2191}\sqrt{38390e^{26}}$	$(\frac{221}{2191}, \frac{62}{2191}, \frac{124}{2191}, -\frac{502}{2191}, -\frac{219}{2191}, \frac{283}{2191}, -\frac{54}{2191}, \frac{72}{2191}, \frac{345}{2191})$ $+\frac{4}{2191}\sqrt{78430e^2} \otimes e_7 + \frac{8}{2191}\sqrt{6765e^1} \otimes e_5$	{123489, 13679, 234568, 357}
942:7	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{243358e^{12}}, \frac{6}{1211}\sqrt{7859e^{34}}, \frac{1}{1211}\sqrt{11382e^{16}},$ $\frac{1}{1211}\sqrt{192410e^{13}} + \frac{2}{1211}\sqrt{59891e^{26}}$	$(\frac{5}{173}, \frac{101}{1211}, \frac{202}{1211}, -\frac{372}{1211}, -\frac{69}{1211}, \frac{136}{1211}, -\frac{170}{1211}, \frac{171}{1211}, \frac{237}{1211})$ $+\frac{1}{1211}\sqrt{118698e^3} \otimes e_5 + \frac{2}{1211}\sqrt{114091e^2} \otimes e_7$	{123489, 13679, 23468, 37}
942:7	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{339e^{12}}, \frac{4}{209}\sqrt{339e^{34}}, \frac{2}{209}\sqrt{3503e^{16}},$ $\frac{2}{209}\sqrt{7797e^{13}} + \frac{2}{209}\sqrt{6441e^{26}}$	$(\frac{7}{209}, -\frac{12}{209}, -\frac{24}{209}, \frac{45}{209}, 1, -\frac{5}{209}, \frac{21}{209}, \frac{2}{209}, -\frac{17}{209})$ $+\frac{8}{209}\sqrt{1243e^5} \otimes e_9$	{12345678, 123568, 13457, 135, 234789, 2389, 34679, 369}
942:7	$0, 0, 0, 0, 0, \frac{4}{3015}\sqrt{16077e^{12}}, \frac{4}{3015}\sqrt{138169e^{34}}, \frac{8}{1005}\sqrt{1631e^{16}},$ $\frac{4}{3015}\sqrt{41474e^{13}} + \frac{4}{3015}\sqrt{118597e^{26}}$	$(-\frac{38}{1005}, -\frac{193}{3015}, -\frac{386}{3015}, \frac{1364}{3015}, \frac{481}{1005}, -\frac{307}{3015}, \frac{326}{1005}, -\frac{421}{3015}, -\frac{100}{603})$ $+\frac{8}{3015}\sqrt{91569e^4} \otimes e_9 + \frac{92}{3015}\sqrt{466e^5} \otimes e_8$	{1289, 1569, 24678, 457}
942:7	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{4879e^{12}}, \frac{8}{673}\sqrt{1717e^{34}}, \frac{8}{673}\sqrt{102e^{16}},$ $\frac{16}{673}\sqrt{799e^{13}} + \frac{8}{673}\sqrt{4845e^{26}}$	$(\frac{10}{673}, \frac{101}{673}, \frac{202}{673}, \frac{14}{673}, -\frac{443}{673}, \frac{111}{673}, \frac{216}{673}, \frac{121}{673}, \frac{212}{673})$ $+\frac{24}{673}\sqrt{1054e^2} \otimes e_5$	{123489, 123789, 134569, 135679, 23468, 23678, 345, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:7	$0, 0, 0, 0, 0, \frac{12}{497}\sqrt{231}e^{12}, \frac{12}{497}\sqrt{5}e^{34}, \frac{4}{497}\sqrt{3927}e^{16},$ $\frac{12}{497}\sqrt{70}e^{13} + \frac{4}{497}\sqrt{714}e^{26}$	$(\frac{11}{497}, -\frac{10}{497}, -\frac{20}{497}, \frac{180}{497}, -\frac{157}{497}, \frac{1}{497}, \frac{160}{497}, \frac{12}{497}, -\frac{9}{497})$ $+ \frac{4}{497}\sqrt{4830}e^4 \otimes e_8 + \frac{8}{497}\sqrt{1113}e^1 \otimes e_5$	{128, 1467, 25689, 4579}
942:7	$0, 0, 0, 0, 0, \frac{168}{571}e^{12}, \frac{168}{571}e^{34}, \frac{14}{571}\sqrt{246}e^{16},$ $\frac{42}{571}\sqrt{6}e^{13} + \frac{7}{571}\sqrt{291}e^{26}$	$(\frac{28}{571}, \frac{7}{571}, \frac{14}{571}, -\frac{133}{571}, \frac{210}{571}, \frac{35}{571}, -\frac{119}{571}, \frac{63}{571}, \frac{42}{571})$ $+ \frac{21}{571}\sqrt{61}e^3 \otimes e_4 + \frac{49}{571}\sqrt{33}e^1 \otimes e_7 + \frac{7}{571}\sqrt{933}e^5 \otimes e_8$	{236789, 3579}
942:7	$0, 0, 0, 0, 0, \frac{312}{1813}e^{12}, \frac{312}{1813}e^{34}, \frac{52}{1813}\sqrt{33}e^{16},$ $\frac{13}{1813}\sqrt{3018}e^{13} + \frac{156}{1813}e^{26}$	$(\frac{104}{1813}, \frac{26}{1813}, \frac{52}{1813}, -\frac{65}{259}, \frac{663}{1813}, \frac{130}{1813}, -\frac{403}{1813}, \frac{234}{1813}, \frac{156}{1813})$ $+ \frac{13}{1813}\sqrt{3030}e^3 \otimes e_4 + \frac{13}{1813}\sqrt{3102}e^5 \otimes e_9 + \frac{39}{1813}\sqrt{430}e^1 \otimes e_7$	{245678, 457}
942:7	$0, 0, 0, 0, 0, \frac{4}{4397}\sqrt{95377}e^{12}, \frac{2}{4397}\sqrt{1368322}e^{34}, \frac{4}{4397}\sqrt{232059}e^{16},$ $\frac{2}{4397}\sqrt{802819}e^{13} + \frac{8}{4397}\sqrt{4506}e^{26}$	$(-\frac{220}{4397}, -\frac{149}{4397}, -\frac{298}{4397}, \frac{913}{4397}, \frac{2117}{4397}, -\frac{369}{4397}, \frac{615}{4397}, -\frac{589}{4397}, -\frac{518}{4397})$ $+ \frac{2}{4397}\sqrt{1248162}e^5 \otimes e_7 + \frac{4}{4397}\sqrt{428070}e^4 \otimes e_8$	{123789, 134569, 23678, 345}
942:7	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{82}e^{12}, \frac{2}{67}\sqrt{1066}e^{34}, \frac{2}{67}\sqrt{246}e^{16},$ $\frac{2}{67}\sqrt{451}e^{13} + \frac{2}{67}\sqrt{246}e^{26}$	$(\frac{10}{67}, -\frac{1}{67}, -\frac{2}{67}, -\frac{13}{67}, 1, \frac{9}{67}, -\frac{15}{67}, \frac{19}{67}, \frac{8}{67})$ $+ \frac{6}{67}\sqrt{246}e^5 \otimes e_7$	{1234589, 123789, 134569, 13679, 234568, 23678, 345, 37}
942:7	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{442}e^{12}, \frac{2}{109}\sqrt{646}e^{34}, \frac{6}{109}\sqrt{51}e^{16},$ $\frac{2}{109}\sqrt{85}e^{13} + \frac{2}{109}\sqrt{51}e^{26}$	$(\frac{25}{109}, -\frac{10}{109}, -\frac{20}{109}, \frac{11}{109}, -\frac{23}{109}, \frac{15}{109}, -\frac{9}{109}, \frac{40}{109}, \frac{5}{109})$ $+ \frac{12}{109}\sqrt{17}e^4 \otimes e_5 + \frac{4}{109}\sqrt{255}e^1 \otimes e_7$	{1258, 156, 246789, 479}
942:7	$0, 0, 0, 0, 0, \frac{39}{2143}\sqrt{110}e^{12}, \frac{2}{2143}\sqrt{190190}e^{34}, \frac{1}{2143}\sqrt{313170}e^{16},$ $\frac{1}{2143}\sqrt{782210}e^{13} + \frac{6}{2143}\sqrt{12155}e^{26}$	$(-\frac{15}{2143}, \frac{7}{2143}, \frac{14}{2143}, \frac{714}{2143}, -\frac{701}{2143}, -\frac{8}{2143}, \frac{728}{2143}, -\frac{23}{2143}, -\frac{1}{2143})$ $+ \frac{10}{2143}\sqrt{15015}e^4 \otimes e_9 + \frac{13}{2143}\sqrt{7590}e^3 \otimes e_5$	{123468, 134, 23789, 3679}
942:7	$0, 0, 0, 0, 0, \frac{4}{3877}\sqrt{53907}e^{12}, \frac{2}{3877}\sqrt{267874}e^{34}, \frac{4}{3877}\sqrt{5889}e^{16},$ $\frac{34}{3877}\sqrt{755}e^{13} + \frac{8}{3877}\sqrt{12986}e^{26}$	$(\frac{260}{3877}, \frac{35}{3877}, \frac{70}{3877}, -\frac{337}{3877}, -\frac{639}{3877}, \frac{295}{3877}, -\frac{267}{3877}, \frac{555}{3877}, \frac{330}{3877})$ $+ \frac{2}{3877}\sqrt{156738}e^4 \otimes e_5 + \frac{4}{3877}\sqrt{92110}e^2 \otimes e_7$	{123489, 135679, 23468, 357}
942:7	$0, 0, 0, 0, 0, \frac{4}{3583}\sqrt{69841}e^{12}, \frac{12}{3583}\sqrt{6541}e^{34}, \frac{12}{3583}\sqrt{11183}e^{16},$ $\frac{8}{3583}\sqrt{61401}e^{13} + \frac{4}{3583}\sqrt{92418}e^{26}$	$(\frac{185}{3583}, \frac{434}{3583}, \frac{868}{3583}, \frac{820}{3583}, \frac{1503}{3583}, \frac{619}{3583}, \frac{48}{3583}, \frac{804}{3583}, \frac{1053}{3583})$ $+ \frac{4}{3583}\sqrt{300886}e^3 \otimes e_4 + \frac{4}{3583}\sqrt{386130}e^1 \otimes e_5$	{1238, 136, 235689, 359}
942:7	$0, 0, 0, 0, 0, \frac{6}{4073}\sqrt{10302}e^{12}, \frac{6}{4073}\sqrt{132310}e^{34}, \frac{6}{4073}\sqrt{85749}e^{16},$ $\frac{6}{4073}\sqrt{14443}e^{13} + \frac{6}{4073}\sqrt{18281}e^{26}$	$(-\frac{645}{4073}, \frac{528}{4073}, \frac{1056}{4073}, -\frac{861}{4073}, \frac{2013}{4073}, -\frac{117}{4073}, \frac{195}{4073}, -\frac{762}{4073}, \frac{411}{4073})$ $+ \frac{12}{4073}\sqrt{39491}e^5 \otimes e_7 + \frac{12}{4073}\sqrt{52015}e^3 \otimes e_8$	{13456, 1367, 3459, 379}
942:7	$0, 0, 0, 0, 0, \frac{12}{419}\sqrt{143}e^{12}, \frac{12}{419}\sqrt{143}e^{34}, \frac{6}{419}\sqrt{429}e^{16},$ $\frac{6}{419}\sqrt{869}e^{13} + \frac{6}{419}\sqrt{429}e^{26}$	$(\frac{65}{419}, -\frac{40}{419}, -\frac{80}{419}, \frac{183}{419}, -\frac{133}{419}, \frac{25}{419}, \frac{103}{419}, \frac{90}{419}, -\frac{15}{419})$ $+ \frac{12}{419}\sqrt{506}e^1 \otimes e_5 + \frac{12}{419}\sqrt{506}e^4 \otimes e_9$	{1289, 169, 245678, 457}
942:7	$0, 0, 0, 0, 0, \frac{12}{1235}\sqrt{211}e^{12}, \frac{4}{1235}\sqrt{17513}e^{34}, \frac{2}{1235}\sqrt{23421}e^{16},$ $\frac{12}{1235}\sqrt{50429}e^{13} + \frac{2}{1235}\sqrt{23421}e^{26}$	$(-\frac{183}{1235}, \frac{56}{1235}, \frac{112}{1235}, \frac{27}{1235}, \frac{131}{1235}, -\frac{127}{1235}, \frac{463}{1235}, \frac{62}{1235}, -\frac{71}{1235})$ $+ \frac{4}{1235}\sqrt{29118}e^3 \otimes e_8 + \frac{4}{1235}\sqrt{29118}e^4 \otimes e_9$	{123456, 12346, 23579, 2379}
942:7	$0, 0, 0, 0, 0, \frac{12}{883}\sqrt{1010}e^{12}, \frac{12}{883}\sqrt{1010}e^{34}, \frac{6}{883}\sqrt{1010}e^{16},$ $\frac{14}{883}\sqrt{707}e^{13} + \frac{2}{883}\sqrt{33330}e^{26}$	$(\frac{4}{883}, \frac{47}{883}, \frac{94}{883}, -\frac{249}{883}, \frac{257}{883}, \frac{51}{883}, -\frac{155}{883}, \frac{55}{883}, \frac{98}{883})$ $+ \frac{2}{883}\sqrt{14746}e^5 \otimes e_8 + \frac{2}{883}\sqrt{63226}e^2 \otimes e_7$	{123489, 135679, 23468, 357}
942:7	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{1717}e^{12}, \frac{8}{673}\sqrt{4879}e^{34}, \frac{8}{673}\sqrt{4845}e^{16},$ $\frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{102}e^{26}$	$(-\frac{83}{673}, \frac{8}{673}, \frac{16}{673}, \frac{386}{673}, \frac{115}{673}, -\frac{75}{673}, \frac{402}{673}, -\frac{158}{673}, -\frac{67}{673})$ $+ \frac{24}{673}\sqrt{1054}e^4 \otimes e_8$	{1235789, 123789, 134569, 13469, 235678, 23678, 34, 345}
942:7	$0, 0, 0, 0, 0, \frac{9}{212}\sqrt{35}e^{12}, \frac{45}{848}\sqrt{34}e^{34}, \frac{9}{424}\sqrt{190}e^{16},$ $\frac{9}{848}\sqrt{138}e^{13} + \frac{9}{424}\sqrt{26}e^{26}$	$(\frac{45}{424}, -\frac{81}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{261}{848}, \frac{9}{848}, -\frac{9}{106}, \frac{99}{848}, -\frac{9}{106})$ $+ \frac{9}{106}\sqrt{11}e^5 \otimes e_8 + \frac{9}{848}\sqrt{1478}e^1 \otimes e_7 + \frac{9}{848}\sqrt{870}e^4 \otimes e_9$	{1289, 1569, 24678, 457}
942:7	$0, 0, 0, 0, 0, \frac{9}{212}\sqrt{35}e^{12}, \frac{45}{848}\sqrt{34}e^{34}, \frac{9}{424}\sqrt{190}e^{16},$ $\frac{9}{848}\sqrt{138}e^{13} + \frac{9}{424}\sqrt{26}e^{26}$	$(\frac{45}{424}, -\frac{81}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{261}{848}, \frac{9}{848}, -\frac{9}{106}, \frac{99}{848}, -\frac{9}{106})$ $+ \frac{9}{106}\sqrt{11}e^5 \otimes e_8 + \frac{9}{848}\sqrt{1478}e^1 \otimes e_7 - \frac{9}{848}\sqrt{870}e^4 \otimes e_9$	{1289, 1569, 24678, 457}
942:8	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{790}e^{12}, \frac{2}{167}\sqrt{4582}e^{34}, \frac{2}{167}\sqrt{4582}e^{16},$ $\frac{2}{167}\sqrt{553}e^{26} + \frac{2}{167}\sqrt{553}e^{35}$	$(-\frac{38}{167}, \frac{27}{167}, -\frac{21}{167}, \frac{109}{167}, \frac{37}{167}, -\frac{11}{167}, \frac{88}{167}, -\frac{49}{167}, \frac{16}{167})$ $+ \frac{2}{167}\sqrt{10823}e^4 \otimes e_8$	{12378, 1258, 1346, 14567, 2356789, 2689, 3459, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:8	$0, 0, 0, 0, 0, \frac{3}{397}\sqrt{1738}e^{12}, \frac{12}{397}\sqrt{77}e^{34}, \frac{12}{397}\sqrt{209}e^{16}, \frac{3}{397}\sqrt{1298}e^{26} + \frac{3}{397}\sqrt{1518}e^{35}$	$(\frac{6}{397}, \frac{24}{397}, -\frac{81}{397}, -\frac{12}{397}, \frac{135}{397}, \frac{30}{397}, -\frac{93}{397}, \frac{36}{397}, \frac{54}{397}) + \frac{24}{397}\sqrt{55}e^5 \otimes e_8 + \frac{3}{397}\sqrt{4246}e^1 \otimes e_7$	{128, 13456, 236789, 4579}
942:8	$0, 0, 0, 0, 0, \frac{110}{1381}\sqrt{39}e^{12}, \frac{60}{1381}\sqrt{143}e^{34}, \frac{10}{1381}\sqrt{429}e^{16}, \frac{10}{1381}\sqrt{5005}e^{26} + \frac{30}{1381}\sqrt{143}e^{35}$	$(-\frac{204}{1381}, \frac{341}{1381}, -\frac{105}{1381}, -\frac{204}{1381}, \frac{583}{1381}, \frac{137}{1381}, -\frac{309}{1381}, -\frac{67}{1381}, \frac{478}{1381}) + \frac{130}{1381}\sqrt{69}e^2 \otimes e_7 + \frac{20}{1381}\sqrt{949}e^5 \otimes e_8$	{1289, 135679, 23468, 457}
942:8	$0, 0, 0, 0, 0, \frac{12}{647}\sqrt{143}e^{12}, \frac{33}{647}\sqrt{22}e^{34}, \frac{6}{647}\sqrt{946}e^{16}, \frac{3}{647}\sqrt{418}e^{26} + \frac{99}{647}\sqrt{2}e^{35}$	$(\frac{36}{647}, -\frac{21}{647}, -\frac{156}{647}, \frac{93}{647}, \frac{150}{647}, \frac{15}{647}, \frac{63}{647}, \frac{51}{647}, -\frac{6}{647}) + \frac{12}{647}\sqrt{341}e^1 \otimes e_7 + \frac{30}{647}\sqrt{33}e^4 \otimes e_9 + \frac{3}{647}\sqrt{4070}e^5 \otimes e_8$	{13456, 236789}
942:8	$0, 0, 0, 0, 0, \frac{1}{1137}\sqrt{28014}e^{12}, \frac{1}{1137}\sqrt{185794}e^{34}, \frac{2}{1137}\sqrt{34615}e^{16}, \frac{2}{1137}\sqrt{5474}e^{26} + \frac{1}{1137}\sqrt{174846}e^{35}$	$(-\frac{128}{1137}, \frac{53}{1137}, \frac{119}{1137}, \frac{100}{379}, -\frac{47}{379}, -\frac{25}{379}, \frac{419}{1137}, -\frac{203}{1137}, -\frac{22}{1137}) + \frac{1}{1137}\sqrt{353234}e^3 \otimes e_8 + \frac{2}{1137}\sqrt{73738}e^4 \otimes e_9$	{12589, 13679, 24678, 345}
942:8	$0, 0, 0, 0, 0, \frac{36}{1697}\sqrt{247}e^{12}, \frac{36}{1697}\sqrt{1159}e^{34}, \frac{18}{1697}\sqrt{627}e^{16}, \frac{18}{1697}\sqrt{4845}e^{26} + \frac{9}{1697}\sqrt{8854}e^{35}$	$(\frac{274}{1697}, -\frac{302}{1697}, -\frac{409}{1697}, \frac{1209}{1697}, \frac{79}{1697}, -\frac{28}{1697}, \frac{800}{1697}, \frac{246}{1697}, -\frac{330}{1697}) + \frac{9}{1697}\sqrt{52630}e^4 \otimes e_9$	{12379, 1259, 136789, 15689, 23456, 2467, 3458, 478}
942:8	$0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{98103}e^{12}, \frac{1}{1673}\sqrt{1506714}e^{34}, \frac{4}{1673}\sqrt{31467}e^{16}, \frac{6}{1673}\sqrt{9255}e^{26} + \frac{2}{1673}\sqrt{418326}e^{35}$	$(\frac{76}{1673}, \frac{302}{1673}, -\frac{541}{1673}, -\frac{89}{1673}, \frac{1221}{1673}, \frac{54}{239}, -\frac{90}{239}, \frac{454}{1673}, \frac{680}{1673}) + \frac{1}{1673}\sqrt{5016210}e^5 \otimes e_7$	{123458, 12478, 13456, 1467, 236789, 25689, 379, 59}
942:8	$0, 0, 0, 0, 0, \frac{44}{821}\sqrt{43}e^{12}, \frac{22}{821}\sqrt{267}e^{34}, \frac{22}{821}\sqrt{145}e^{16}, \frac{198}{821}e^{26} + \frac{44}{821}\sqrt{5}e^{35}$	$(\frac{199}{821}, -\frac{150}{821}, -\frac{184}{821}, \frac{141}{821}, \frac{83}{821}, \frac{49}{821}, -\frac{43}{821}, \frac{248}{821}, -\frac{101}{821}) + \frac{22}{821}\sqrt{305}e^4 \otimes e_9 + \frac{22}{821}\sqrt{413}e^1 \otimes e_7$	{12589, 1569, 24678, 47}
942:8	$0, 0, 0, 0, 0, \frac{8}{799}\sqrt{1497}e^{12}, \frac{4}{799}\sqrt{6986}e^{34}, \frac{10}{799}\sqrt{1497}e^{16}, \frac{18}{799}\sqrt{499}e^{26} + \frac{4}{799}\sqrt{38922}e^{35}$	$(\frac{21}{799}, \frac{177}{799}, \frac{543}{799}, -\frac{455}{799}, -\frac{168}{799}, \frac{198}{799}, \frac{88}{799}, \frac{219}{799}, \frac{375}{799}) + \frac{2}{799}\sqrt{326845}e^3 \otimes e_4$	{12358, 1248, 1356, 146, 23689, 245689, 39, 459}
942:8	$0, 0, 0, 0, 0, \frac{1}{2629}\sqrt{128918}e^{12}, \frac{2}{2629}\sqrt{139514}e^{34}, \frac{12}{2629}\sqrt{8830}e^{16}, \frac{2}{2629}\sqrt{245474}e^{26} + \frac{1}{2629}\sqrt{2060922}e^{35}$	$(-\frac{574}{2629}, \frac{702}{2629}, \frac{393}{2629}, -\frac{490}{2629}, \frac{437}{2629}, \frac{128}{2629}, -\frac{97}{2629}, -\frac{446}{2629}, \frac{830}{2629}) + \frac{1}{2629}\sqrt{2445910}e^5 \otimes e_8 + \frac{2}{2629}\sqrt{72406}e^3 \otimes e_4$	{1248, 1356, 23689, 459}
942:8	$0, 0, 0, 0, 0, \frac{4}{2623}\sqrt{109173}e^{12}, \frac{4}{2623}\sqrt{124273}e^{34}, \frac{4}{2623}\sqrt{26727}e^{16}, \frac{84}{2623}\sqrt{302}e^{26} + \frac{40}{2623}\sqrt{453}e^{35}$	$(-\frac{195}{2623}, \frac{564}{2623}, \frac{282}{2623}, -\frac{926}{2623}, \frac{651}{2623}, \frac{369}{2623}, -\frac{644}{2623}, \frac{174}{2623}, \frac{933}{2623}) + \frac{12}{2623}\sqrt{30502}e^2 \otimes e_7 + \frac{4}{2623}\sqrt{68554}e^3 \otimes e_4$	{1356789, 146789, 378, 4578}
942:8	$0, 0, 0, 0, 0, \frac{12}{5977}\sqrt{227}e^{12}, \frac{6}{5977}\sqrt{641}e^{34}, \frac{30}{5977}\sqrt{70}e^{16}, \frac{6}{5977}\sqrt{462}e^{26} + \frac{12}{5977}\sqrt{590}e^{35}$	$(\frac{66}{5977}, -\frac{9}{5977}, -\frac{93}{5977}, -\frac{111}{5977}, \frac{141}{5977}, \frac{57}{5977}, -\frac{204}{5977}, \frac{123}{5977}, \frac{48}{5977}) + \frac{24}{5977}\sqrt{129}e^5 \otimes e_8 + \frac{6}{5977}\sqrt{1189}e^3 \otimes e_4 - \frac{6}{5977}\sqrt{2287}e^1 \otimes e_9$	{1248, 1356, 23689, 459}
942:8	$0, 0, 0, 0, 0, \frac{12}{5977}\sqrt{227}e^{12}, \frac{6}{5977}\sqrt{641}e^{34}, \frac{30}{5977}\sqrt{70}e^{16}, \frac{6}{5977}\sqrt{462}e^{26} + \frac{12}{5977}\sqrt{590}e^{35}$	$(\frac{66}{5977}, -\frac{9}{5977}, -\frac{93}{5977}, -\frac{111}{5977}, \frac{141}{5977}, \frac{57}{5977}, -\frac{204}{5977}, \frac{123}{5977}, \frac{48}{5977}) + \frac{24}{5977}\sqrt{129}e^5 \otimes e_8 + \frac{6}{5977}\sqrt{1189}e^3 \otimes e_4 + \frac{6}{5977}\sqrt{2287}e^1 \otimes e_9$	{1248, 1356, 23689, 459}
942:8	$0, 0, 0, 0, 0, \frac{8}{211}\sqrt{57}e^{12}, \frac{16}{211}\sqrt{57}e^{34}, \frac{4}{211}\sqrt{1577}e^{16}, \frac{76}{211}\sqrt{2}e^{26} + \frac{4}{211}\sqrt{1273}e^{35}$	$(-\frac{59}{211}, \frac{62}{211}, \frac{96}{211}, -\frac{12}{211}, -\frac{31}{211}, \frac{3}{211}, \frac{84}{211}, -\frac{56}{211}, \frac{65}{211}) + \frac{20}{211}\sqrt{133}e^3 \otimes e_8$	{12478, 128, 13456, 13567, 2456789, 25689, 349, 379}
942:8	$0, 0, 0, 0, 0, \frac{14}{1573}\sqrt{399}e^{12}, \frac{42}{1573}\sqrt{82}e^{34}, \frac{14}{1573}\sqrt{327}e^{16}, \frac{14}{143}\sqrt{7}e^{26} + \frac{42}{1573}\sqrt{39}e^{35}$	$(\frac{84}{1573}, -\frac{49}{1573}, -\frac{21}{143}, \frac{84}{1573}, \frac{217}{1573}, \frac{35}{1573}, -\frac{147}{1573}, \frac{119}{1573}, -\frac{14}{1573}) + \frac{14}{1573}\sqrt{1041}e^2 \otimes e_7 - \frac{14}{1573}\sqrt{290}e^5 \otimes e_8 + \frac{42}{1573}\sqrt{74}e^4 \otimes e_9$	{129, 1356789, 2346, 4578}
942:8	$0, 0, 0, 0, 0, \frac{14}{1573}\sqrt{399}e^{12}, \frac{42}{1573}\sqrt{82}e^{34}, \frac{14}{1573}\sqrt{327}e^{16}, \frac{14}{143}\sqrt{7}e^{26} + \frac{42}{1573}\sqrt{39}e^{35}$	$(\frac{84}{1573}, -\frac{49}{1573}, -\frac{21}{143}, \frac{84}{1573}, \frac{217}{1573}, \frac{35}{1573}, -\frac{147}{1573}, \frac{119}{1573}, -\frac{14}{1573}) + \frac{14}{1573}\sqrt{1041}e^2 \otimes e_7 + \frac{14}{1573}\sqrt{290}e^5 \otimes e_8 + \frac{42}{1573}\sqrt{74}e^4 \otimes e_9$	{129, 1356789, 2346, 4578}
942:8	$0, 0, 0, 0, 0, \frac{4}{1637}\sqrt{26767}e^{12}, \frac{1}{1637}\sqrt{2433738}e^{34}, \frac{1}{1637}\sqrt{251198}e^{16}, \frac{1}{1637}\sqrt{531222}e^{26} + \frac{4}{1637}\sqrt{35003}e^{35}$	$(\frac{147}{1637}, \frac{79}{1637}, \frac{1182}{1637}, -\frac{279}{1637}, -\frac{877}{1637}, \frac{226}{1637}, \frac{903}{1637}, \frac{373}{1637}, \frac{305}{1637}) + \frac{5}{1637}\sqrt{218254}e^3 \otimes e_5$	{23468, 23678, 245678, 2568, 34, 37, 457, 5}
942:8	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{570}e^{12}, \frac{4}{133}\sqrt{285}e^{34}, \frac{1}{133}\sqrt{3306}e^{16}, \frac{1}{133}\sqrt{114}e^{26} + \frac{1}{133}\sqrt{1482}e^{35}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, 0, -\frac{1}{7}, \frac{1}{7}) + \frac{1}{133}\sqrt{6270}e^5 \otimes e_7 + \frac{3}{133}\sqrt{798}e^4 \otimes e_8$	{13456, 1467, 236789, 25689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:8	$0, 0, 0, 0, 0, \frac{60}{169}e^{12}, \frac{10}{169}\sqrt{57}e^{34}, \frac{10}{169}\sqrt{17}e^{16},$ $\frac{10}{169}\sqrt{31}e^{26} + \frac{10}{169}\sqrt{2}e^{35}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{23}{169}, \frac{9}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{50}{169})$ $+ \frac{10}{169}\sqrt{61}e^3 \otimes e_8 + \frac{10}{169}\sqrt{87}e^2 \otimes e_7$	{1289, 135679, 2568, 37}
942:8	$0, 0, 0, 0, 0, \frac{2}{4993}\sqrt{217151}e^{12}, \frac{4}{4993}\sqrt{95513}e^{34}, \frac{26}{4993}\sqrt{627}e^{16},$ $\frac{2}{4993}\sqrt{417373}e^{26} + \frac{2}{4993}\sqrt{102619}e^{35}$	$(-\frac{56}{4993}, \frac{81}{4993}, -\frac{861}{4993}, \frac{524}{4993}, \frac{967}{4993}, \frac{25}{4993}, -\frac{337}{4993}, -\frac{31}{4993}, \frac{106}{4993})$ $+ \frac{38}{4993}\sqrt{1529}e^2 \otimes e_7 + \frac{4}{4993}\sqrt{98021}e^4 \otimes e_9$	{129, 1356789, 2346, 4578}
942:8	$0, 0, 0, 0, 0, \frac{1}{69}\sqrt{1978}e^{12}, \frac{4}{69}\sqrt{129}e^{34}, \frac{4}{69}\sqrt{129}e^{16},$ $\frac{1}{69}\sqrt{258}e^{26} + \frac{1}{69}\sqrt{258}e^{35}$	$(\frac{22}{69}, -\frac{8}{69}, -\frac{3}{23}, -\frac{4}{23}, \frac{5}{23}, \frac{14}{69}, -\frac{7}{23}, \frac{12}{23}, \frac{2}{23})$ $+ \frac{1}{69}\sqrt{4902}e^1 \otimes e_7$	{12348, 1258, 1346, 156, 2356789, 246789, 3579, 479}
942:8	$0, 0, 0, 0, 0, \frac{2}{1133}\sqrt{11978}e^{12}, \frac{2}{1133}\sqrt{21306}e^{34}, \frac{2}{1133}\sqrt{21306}e^{16},$ $\frac{2}{1133}\sqrt{3869}e^{26} + \frac{2}{1133}\sqrt{3869}e^{35}$	$(\frac{50}{1133}, -\frac{43}{1133}, -\frac{219}{1133}, \frac{163}{1133}, \frac{183}{1133}, \frac{7}{1133}, -\frac{56}{1133}, \frac{57}{1133}, -\frac{36}{1133})$ $+ \frac{2}{1133}\sqrt{24115}e^4 \otimes e_8 + \frac{4}{1133}\sqrt{7526}e^1 \otimes e_7$	{1258, 1346, 2356789, 479}
942:8	$0, 0, 0, 0, 0, \frac{1}{361}\sqrt{29058}e^{12}, \frac{2}{361}\sqrt{6346}e^{34}, \frac{8}{361}\sqrt{501}e^{16},$ $\frac{3}{361}\sqrt{1002}e^{26} + \frac{1}{361}\sqrt{11022}e^{35}$	$(\frac{78}{361}, -\frac{12}{361}, \frac{39}{361}, -\frac{128}{361}, \frac{15}{361}, \frac{66}{361}, -\frac{89}{361}, \frac{144}{361}, \frac{54}{361})$ $+ \frac{10}{361}\sqrt{334}e^3 \otimes e_4 + \frac{1}{361}\sqrt{71142}e^1 \otimes e_7$	{236789, 2456789, 379, 4579}
942:8	$0, 0, 0, 0, 0, \frac{2}{5441}\sqrt{223630}e^{12}, \frac{2}{5441}\sqrt{2313982}e^{34}, \frac{2}{5441}\sqrt{1297054}e^{16},$ $\frac{10}{5441}\sqrt{1177}e^{26} + \frac{2}{5441}\sqrt{537889}e^{35}$	$(-\frac{722}{5441}, \frac{405}{5441}, \frac{1221}{5441}, \frac{1315}{5441}, -\frac{1133}{5441}, -\frac{317}{5441}, \frac{2536}{5441}, -\frac{1039}{5441}, \frac{88}{5441})$ $+ \frac{24}{5441}\sqrt{17655}e^3 \otimes e_5 + \frac{2}{5441}\sqrt{3190847}e^4 \otimes e_8$	{12378, 1258, 1346, 14567}
942:8	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{10}e^{12}, \frac{7}{137}\sqrt{73}e^{34}, \frac{7}{137}\sqrt{2}e^{16},$ $\frac{42}{137}e^{26} + \frac{7}{137}\sqrt{55}e^{35}$	$(\frac{11}{137}, -\frac{8}{137}, -\frac{49}{137}, \frac{44}{137}, \frac{44}{137}, \frac{3}{137}, -\frac{5}{137}, \frac{14}{137}, -\frac{5}{137})$ $+ \frac{7}{137}\sqrt{113}e^5 \otimes e_7 + \frac{7}{137}\sqrt{131}e^4 \otimes e_9$	{12379, 1259, 136789, 15689, 23456, 2467, 3458, 478}
942:8	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{10}e^{12}, \frac{7}{137}\sqrt{73}e^{34}, \frac{7}{137}\sqrt{2}e^{16},$ $\frac{42}{137}e^{26} + \frac{7}{137}\sqrt{55}e^{35}$	$(\frac{11}{137}, -\frac{8}{137}, -\frac{49}{137}, \frac{44}{137}, \frac{44}{137}, \frac{3}{137}, -\frac{5}{137}, \frac{14}{137}, -\frac{5}{137})$ $- \frac{7}{137}\sqrt{113}e^5 \otimes e_7 + \frac{7}{137}\sqrt{131}e^4 \otimes e_9$	{12379, 1259, 136789, 15689, 23456, 2467, 3458, 478}
942:8	$0, 0, 0, 0, 0, \frac{1}{1369}\sqrt{786}e^{12}, \frac{3}{1369}\sqrt{70}e^{34}, \frac{2}{1369}\sqrt{383}e^{16},$ $\frac{1}{1369}\sqrt{74}e^{26} + \frac{1}{1369}\sqrt{1714}e^{35}$	$(\frac{10}{1369}, -\frac{1}{1369}, \frac{21}{1369}, -\frac{36}{1369}, \frac{13}{1369}, \frac{9}{1369}, \frac{15}{1369}, \frac{19}{1369}, \frac{8}{1369})$ $- \frac{12}{1369}\sqrt{13}e^1 \otimes e_9 + \frac{14}{1369}\sqrt{6}e^5 \otimes e_7 + \frac{1}{1369}\sqrt{1942}e^3 \otimes e_8$	{12478, 13456, 25689, 379}
942:8	$0, 0, 0, 0, 0, \frac{1}{1369}\sqrt{786}e^{12}, \frac{3}{1369}\sqrt{70}e^{34}, \frac{2}{1369}\sqrt{383}e^{16},$ $\frac{1}{1369}\sqrt{74}e^{26} + \frac{1}{1369}\sqrt{1714}e^{35}$	$(\frac{10}{1369}, -\frac{1}{1369}, \frac{21}{1369}, -\frac{36}{1369}, \frac{13}{1369}, \frac{9}{1369}, \frac{15}{1369}, \frac{19}{1369}, \frac{8}{1369})$ $+ \frac{12}{1369}\sqrt{13}e^1 \otimes e_9 + \frac{14}{1369}\sqrt{6}e^5 \otimes e_7 + \frac{1}{1369}\sqrt{1942}e^3 \otimes e_8$	{12478, 13456, 25689, 379}
942:8	$0, 0, 0, 0, 0, \frac{23}{1591}\sqrt{206}e^{12}, \frac{92}{1591}\sqrt{11}e^{34}, \frac{276}{1591}\sqrt{5}e^{16},$ $\frac{92}{1591}\sqrt{26}e^{26} + \frac{92}{1591}\sqrt{1146}e^{35}$	$(-\frac{322}{1591}, \frac{414}{1591}, \frac{207}{1591}, -\frac{322}{1591}, \frac{299}{1591}, \frac{92}{1591}, -\frac{115}{1591}, -\frac{230}{1591}, \frac{506}{1591})$ $+ \frac{23}{1591}\sqrt{1102}e^3 \otimes e_4 + \frac{23}{1591}\sqrt{1462}e^5 \otimes e_8 + \frac{92}{1591}\sqrt{21}e^2 \otimes e_7$	{1248, 23689}
942:8	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{42}e^{12}, \frac{1}{111}\sqrt{385}e^{34}, \frac{1}{111}\sqrt{238}e^{16},$ $\frac{1}{111}\sqrt{7}e^{26} + \frac{1}{111}\sqrt{399}e^{35}$	$(-\frac{11}{111}, \frac{8}{111}, -\frac{7}{111}, \frac{4}{37}, \frac{4}{37}, -\frac{1}{37}, \frac{5}{111}, -\frac{14}{111}, \frac{5}{111})$ $+ \frac{1}{111}\sqrt{427}e^4 \otimes e_9 + \frac{4}{111}\sqrt{35}e^3 \otimes e_8 - \frac{7}{37}e^5 \otimes e_7$	{12478, 13456, 25689, 379}
942:8	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{42}e^{12}, \frac{1}{111}\sqrt{385}e^{34}, \frac{1}{111}\sqrt{238}e^{16},$ $\frac{1}{111}\sqrt{7}e^{26} + \frac{1}{111}\sqrt{399}e^{35}$	$(-\frac{11}{111}, \frac{8}{111}, -\frac{7}{111}, \frac{4}{37}, \frac{4}{37}, -\frac{1}{37}, \frac{5}{111}, -\frac{14}{111}, \frac{5}{111})$ $+ \frac{1}{111}\sqrt{427}e^4 \otimes e_9 + \frac{4}{111}\sqrt{35}e^3 \otimes e_8 + \frac{7}{37}e^5 \otimes e_7$	{12478, 13456, 25689, 379}
942:8	$0, 0, 0, 0, 0, \frac{9}{503}\sqrt{142}e^{12}, \frac{18}{503}\sqrt{14}e^{34}, \frac{72}{503}\sqrt{5}e^{16},$ $\frac{9}{503}\sqrt{41}e^{26} + \frac{9}{503}\sqrt{258}e^{35}$	$(-\frac{18}{503}, \frac{54}{503}, -\frac{9}{503}, -\frac{90}{503}, \frac{99}{503}, \frac{36}{503}, -\frac{99}{503}, \frac{18}{503}, \frac{90}{503})$ $+ \frac{18}{503}\sqrt{85}e^1 \otimes e_7 + \frac{9}{503}\sqrt{210}e^3 \otimes e_4 + \frac{9}{503}\sqrt{370}e^5 \otimes e_8$	{236789, 4579}
942:8	$0, 0, 0, 0, 0, \frac{20}{3991}\sqrt{3955}e^{12}, \frac{4}{3991}\sqrt{177523}e^{34}, \frac{4}{3991}\sqrt{29041}e^{16},$ $\frac{4}{3991}\sqrt{116390}e^{26} + \frac{76}{3991}\sqrt{226}e^{35}$	$(-\frac{697}{3991}, \frac{720}{3991}, -\frac{414}{3991}, \frac{230}{3991}, \frac{89}{3991}, \frac{23}{3991}, -\frac{184}{3991}, -\frac{674}{3991}, \frac{743}{3991})$ $+ \frac{4}{3991}\sqrt{154358}e^4 \otimes e_8 + \frac{4}{3991}\sqrt{247470}e^2 \otimes e_7$	{1289, 14679, 2568, 457}
942:8	$0, 0, 0, 0, 0, \frac{2}{1607}\sqrt{56238}e^{12}, \frac{3}{1607}\sqrt{45526}e^{34}, \frac{2}{1607}\sqrt{441870}e^{16},$ $\frac{1}{1607}\sqrt{998894}e^{26} + \frac{3}{1607}\sqrt{211562}e^{35}$	$(-\frac{492}{1607}, \frac{541}{1607}, -\frac{306}{1607}, \frac{405}{1607}, \frac{896}{1607}, \frac{49}{1607}, \frac{99}{1607}, -\frac{443}{1607}, \frac{590}{1607})$ $+ \frac{1}{1607}\sqrt{3628690}e^5 \otimes e_8$	{1248, 1278, 134567, 1356, 2346789, 23689, 459, 579}
942:8	$0, 0, 0, 0, 0, \frac{8}{295}\sqrt{57}e^{12}, \frac{8}{295}\sqrt{21}e^{34}, \frac{8}{295}\sqrt{101}e^{16},$ $\frac{16}{295}\sqrt{2}e^{26} + \frac{8}{295}\sqrt{94}e^{35}$	$(\frac{13}{295}, -\frac{16}{295}, \frac{42}{295}, \frac{12}{295}, -\frac{61}{295}, -\frac{3}{295}, \frac{54}{295}, \frac{2}{295}, -\frac{19}{295})$ $+ \frac{16}{295}\sqrt{31}e^3 \otimes e_8 + \frac{8}{295}\sqrt{138}e^1 \otimes e_9$	{12478, 128, 13456, 13567, 2456789, 25689, 349, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:8	$0, 0, 0, 0, 0, \frac{8}{295}\sqrt{57}e^{12}, \frac{8}{295}\sqrt{21}e^{34}, \frac{8}{295}\sqrt{101}e^{16},$ $\frac{16}{295}\sqrt{2}e^{26} + \frac{8}{295}\sqrt{94}e^{35}$	$(\frac{13}{295}, -\frac{16}{295}, \frac{42}{295}, \frac{12}{295}, -\frac{61}{295}, -\frac{3}{295}, \frac{54}{295}, \frac{2}{59}, -\frac{19}{295})$ $+ \frac{16}{295}\sqrt{31}e^3 \otimes e_8 - \frac{8}{295}\sqrt{138}e^1 \otimes e_9$	{12478, 128, 13456, 13567, 2456789, 25689, 349, 379}
942:8	$0, 0, 0, 0, 0, \frac{1}{1385}\sqrt{29946}e^{12}, \frac{3}{1385}\sqrt{22862}e^{34}, \frac{2}{1385}\sqrt{57155}e^{16},$ $\frac{1}{1385}\sqrt{34454}e^{26} + \frac{1}{1385}\sqrt{274666}e^{35}$	$(-\frac{262}{1385}, \frac{307}{1385}, \frac{21}{277}, -\frac{36}{277}, \frac{247}{1385}, \frac{9}{277}, -\frac{15}{277}, -\frac{217}{1385}, \frac{352}{1385})$ $+ \frac{1}{1385}\sqrt{458206}e^3 \otimes e_8 + \frac{2}{1385}\sqrt{85974}e^5 \otimes e_7$	{12478, 13456, 25689, 379}
942:8	$0, 0, 0, 0, 0, \frac{2}{5369}\sqrt{257610}e^{12}, \frac{10}{5369}\sqrt{22714}e^{34}, \frac{6}{5369}\sqrt{56785}e^{16},$ $\frac{6}{5369}\sqrt{84485}e^{26} + \frac{12}{5369}\sqrt{70635}e^{35}$	$(\frac{3}{5369}, \frac{921}{5369}, \frac{615}{5369}, \frac{2155}{5369}, \frac{1230}{5369}, \frac{132}{5369}, \frac{220}{5369}, \frac{927}{5369}, \frac{1845}{5369})$ $+ \frac{2}{767}\sqrt{65095}e^3 \otimes e_4 + \frac{4}{5369}\sqrt{868395}e^5 \otimes e_7$	{12478, 1467, 236789, 379}
942:8	$0, 0, 0, 0, 0, \frac{2}{4897}\sqrt{607543}e^{12}, \frac{2}{4897}\sqrt{1067934}e^{34}, \frac{2}{4897}\sqrt{198547}e^{16},$ $\frac{46}{4897}\sqrt{1623}e^{26} + \frac{10}{4897}\sqrt{22181}e^{35}$	$(-\frac{270}{4897}, \frac{659}{4897}, \frac{1065}{4897}, -\frac{1488}{4897}, -\frac{17}{4897}, \frac{389}{4897}, -\frac{423}{4897}, \frac{119}{4897}, \frac{1048}{4897})$ $+ \frac{4}{4897}\sqrt{206662}e^3 \otimes e_5 + \frac{62}{4897}\sqrt{1623}e^2 \otimes e_7$	{2346, 256, 378, 4578}
942:8	$0, 0, 0, 0, 0, \frac{12}{127}\sqrt{3}e^{12}, \frac{3}{127}\sqrt{74}e^{34}, \frac{12}{127}\sqrt{6}e^{16},$ $\frac{3}{127}\sqrt{34}e^{26} + \frac{12}{127}\sqrt{2}e^{35}$	$(0, \frac{6}{127}, \frac{15}{127}, -\frac{24}{127}, -\frac{3}{127}, \frac{6}{127}, -\frac{9}{127}, \frac{6}{127}, \frac{12}{127})$ $+ \frac{3}{127}\sqrt{110}e^3 \otimes e_8 + \frac{3}{127}\sqrt{118}e^1 \otimes e_7$	{128, 13456, 2456789, 379}
942:8	$0, 0, 0, 0, 0, \frac{4}{4963}\sqrt{59109}e^{12}, \frac{24}{4963}\sqrt{793}e^{34}, \frac{68}{4963}\sqrt{366}e^{16},$ $\frac{4}{4963}\sqrt{14579}e^{26} + \frac{12}{4963}\sqrt{12810}e^{35}$	$(\frac{204}{4963}, -\frac{244}{4963}, \frac{936}{4963}, \frac{954}{4963}, \frac{652}{4963}, -\frac{40}{4963}, \frac{18}{4963}, \frac{164}{4963}, -\frac{284}{4963})$ $+ \frac{12}{4963}\sqrt{16409}e^1 \otimes e_9 + \frac{8}{4963}\sqrt{31354}e^5 \otimes e_8$	{1248, 1278, 134567, 1356, 2346789, 23689, 459, 579}
942:8	$0, 0, 0, 0, 0, \frac{4}{4963}\sqrt{59109}e^{12}, \frac{24}{4963}\sqrt{793}e^{34}, \frac{68}{4963}\sqrt{366}e^{16},$ $\frac{4}{4963}\sqrt{14579}e^{26} + \frac{12}{4963}\sqrt{12810}e^{35}$	$(\frac{204}{4963}, -\frac{244}{4963}, -\frac{936}{4963}, \frac{954}{4963}, \frac{652}{4963}, -\frac{40}{4963}, \frac{18}{4963}, \frac{164}{4963}, -\frac{284}{4963})$ $- \frac{12}{4963}\sqrt{16409}e^1 \otimes e_9 + \frac{8}{4963}\sqrt{31354}e^5 \otimes e_8$	{1248, 1278, 134567, 1356, 2346789, 23689, 459, 579}
942:8	$0, 0, 0, 0, 0, \frac{12}{1831}\sqrt{803}e^{12}, \frac{1}{1831}\sqrt{226446}e^{34}, \frac{2}{1831}\sqrt{139722}e^{16},$ $\frac{5}{1831}\sqrt{1606}e^{26} + \frac{1}{1831}\sqrt{891330}e^{35}$	$(-\frac{204}{1831}, \frac{119}{1831}, -\frac{480}{1831}, \frac{837}{1831}, \frac{514}{1831}, -\frac{85}{1831}, \frac{357}{1831}, -\frac{289}{1831}, \frac{34}{1831})$ $+ \frac{1}{1831}\sqrt{1369918}e^5 \otimes e_8 + \frac{2}{1831}\sqrt{305943}e^4 \otimes e_9$	{123789, 1569, 24678, 345}
942:8	$0, 0, 0, 0, 0, \frac{2}{831}\sqrt{58447}e^{12}, \frac{2}{277}\sqrt{8018}e^{34}, \frac{6}{277}\sqrt{211}e^{16},$ $\frac{2}{277}\sqrt{8651}e^{26} + \frac{2}{831}\sqrt{41145}e^{35}$	$(-\frac{70}{831}, \frac{185}{831}, -\frac{7}{277}, -\frac{72}{277}, \frac{107}{277}, \frac{115}{277}, -\frac{79}{277}, \frac{15}{277}, \frac{100}{277})$ $+ \frac{2}{831}\sqrt{148755}e^2 \otimes e_7$	{123459, 129, 1356789, 146789, 2346, 256, 378, 4578}
942:8	$0, 0, 0, 0, 0, \frac{6}{1013}\sqrt{3842}e^{12}, \frac{12}{1013}\sqrt{1547}e^{34}, \frac{6}{1013}\sqrt{3910}e^{16},$ $\frac{12}{1013}\sqrt{51}e^{26} + \frac{6}{1013}\sqrt{1343}e^{35}$	$(\frac{222}{1013}, -\frac{99}{1013}, \frac{165}{1013}, -\frac{249}{1013}, -\frac{141}{1013}, \frac{123}{1013}, -\frac{84}{1013}, \frac{345}{1013}, \frac{24}{1013})$ $+ \frac{6}{1013}\sqrt{5695}e^3 \otimes e_5 + \frac{6}{1013}\sqrt{9571}e^1 \otimes e_7$	{12348, 1258, 1346, 156}
942:8	$0, 0, 0, 0, 0, \frac{10}{5261}\sqrt{9259}e^{12}, \frac{20}{5261}\sqrt{20022}e^{34}, \frac{20}{5261}\sqrt{1927}e^{16},$ $\frac{190}{5261}\sqrt{141}e^{26} + \frac{10}{5261}\sqrt{7003}e^{35}$	$(\frac{558}{5261}, -\frac{689}{5261}, \frac{765}{5261}, \frac{1530}{5261}, -\frac{1585}{5261}, -\frac{131}{5261}, \frac{2295}{5261}, \frac{427}{5261}, -\frac{820}{5261})$ $+ \frac{10}{5261}\sqrt{124221}e^4 \otimes e_9 + \frac{10}{5261}\sqrt{95269}e^3 \otimes e_5$	{12379, 1259, 136789, 15689}
942:9	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{690}e^{12}, \frac{1}{122}\sqrt{470}e^{13} + \frac{1}{122}\sqrt{690}e^{45}, \frac{1}{122}\sqrt{790}e^{16},$ $\frac{1}{122}\sqrt{10}e^{26}$	$(\frac{1}{61}, \frac{2}{61}, -\frac{4}{61}, -\frac{12}{61}, \frac{9}{61}, \frac{3}{61}, -\frac{3}{61}, \frac{4}{61}, \frac{5}{61})$ $+ \frac{1}{61}\sqrt{210}e^1 \otimes e_3 + \frac{1}{61}\sqrt{210}e^5 \otimes e_8 + \frac{5}{122}\sqrt{22}e^2 \otimes e_7$	{128, 23689}
942:9	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{267}e^{12}, \frac{1}{155}\sqrt{9879}e^{13} + \frac{3}{155}\sqrt{267}e^{45}, \frac{1}{155}\sqrt{5162}e^{16},$ $\frac{1}{155}\sqrt{8277}e^{26}$	$(\frac{2}{155}, -\frac{18}{155}, \frac{11}{31}, \frac{73}{155}, -\frac{16}{155}, -\frac{16}{155}, \frac{57}{155}, -\frac{14}{155}, -\frac{34}{155})$ $+ \frac{1}{155}\sqrt{16999}e^3 \otimes e_9 + \frac{89}{155}e^4 \otimes e_5$	{123468, 123568, 134, 135, 2489, 2589, 469, 569}
942:9	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{267}e^{12}, \frac{1}{155}\sqrt{9879}e^{13} + \frac{3}{155}\sqrt{267}e^{45}, \frac{1}{155}\sqrt{5162}e^{16},$ $\frac{1}{155}\sqrt{8277}e^{26}$	$(\frac{2}{155}, -\frac{18}{155}, \frac{11}{31}, \frac{73}{155}, -\frac{16}{155}, -\frac{16}{155}, \frac{57}{155}, -\frac{14}{155}, -\frac{34}{155})$ $+ \frac{1}{155}\sqrt{16999}e^3 \otimes e_9 - \frac{89}{155}e^4 \otimes e_5$	{123468, 123568, 134, 135, 2489, 2589, 469, 569}
942:9	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{149}e^{12}, \frac{5}{349}\sqrt{21}e^{13} + \frac{5}{349}\sqrt{197}e^{45}, \frac{15}{349}\sqrt{3}e^{16},$ $\frac{5}{349}\sqrt{213}e^{26}$	$(\frac{5}{349}, \frac{10}{349}, -\frac{20}{349}, -\frac{65}{349}, \frac{50}{349}, \frac{15}{349}, -\frac{15}{349}, \frac{20}{349}, \frac{25}{349})$ $+ \frac{15}{349}\sqrt{35}e^2 \otimes e_7 + \frac{5}{349}\sqrt{230}e^5 \otimes e_9 + \frac{5}{349}\sqrt{86}e^1 \otimes e_3$	{146789, 3578}
942:9	$0, 0, 0, 0, 0, \frac{5}{289}\sqrt{542}e^{12}, \frac{1}{289}\sqrt{12466}e^{13} + \frac{4}{289}\sqrt{3523}e^{45}, \frac{4}{289}\sqrt{271}e^{16},$ $\frac{3}{289}\sqrt{5962}e^{26}$	$(\frac{58}{289}, -\frac{72}{289}, \frac{75}{289}, \frac{185}{289}, -\frac{52}{289}, -\frac{14}{289}, \frac{133}{289}, \frac{44}{289}, -\frac{86}{289})$ $+ \frac{1}{289}\sqrt{128454}e^4 \otimes e_9$	{123579, 129, 1356789, 1689, 23456, 2467, 3458, 478}
942:9	$0, 0, 0, 0, 0, \frac{6}{1267}\sqrt{3085}e^{12}, \frac{2}{3801}\sqrt{501621}e^{13} + \frac{2}{3801}\sqrt{948946}e^{45},$ $\frac{2}{3801}\sqrt{554066}e^{16}, \frac{4}{3801}\sqrt{54913}e^{26}$	$(-\frac{88}{3801}, -\frac{359}{3801}, \frac{405}{1267}, \frac{233}{1267}, \frac{428}{3801}, -\frac{149}{1267}, \frac{161}{543}, -\frac{535}{3801}, -\frac{806}{3801})$ $+ \frac{2}{3801}\sqrt{1132195}e^4 \otimes e_8 + \frac{4}{3801}\sqrt{241247}e^5 \otimes e_9$	{1289, 134679, 25678, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:9	$0, 0, 0, 0, 0, \frac{1}{461} \sqrt{15630}e^{12}, \frac{5}{461} \sqrt{5210}e^{13} + \frac{1}{461} \sqrt{15630}e^{45},$ $\frac{2}{461} \sqrt{30218}e^{16}, \frac{2}{461} \sqrt{3126}e^{26}$	$(-\frac{146}{461}, \frac{107}{461}, \frac{336}{461}, \frac{95}{461}, \frac{95}{461}, -\frac{39}{461}, \frac{190}{461}, -\frac{185}{461}, \frac{68}{461})$ $+ \frac{1}{461} \sqrt{397002}e^3 \otimes e_8$	{123469, 145789, 1789, 23457, 237, 468}
942:9	$0, 0, 0, 0, 0, \frac{1}{79} \sqrt{1122}e^{12}, \frac{5}{79} \sqrt{34}e^{13} + \frac{1}{79} \sqrt{1122}e^{45}, \frac{17}{79} \sqrt{2}e^{16},$ $\frac{1}{79} \sqrt{1598}e^{26}$	$(-\frac{10}{79}, \frac{22}{79}, -\frac{2}{79}, \frac{11}{79}, -\frac{23}{79}, \frac{12}{79}, -\frac{12}{79}, \frac{2}{79}, \frac{34}{79})$ $+ \frac{1}{79} \sqrt{3502}e^2 \otimes e_7 + \frac{34}{79} e^4 \otimes e_5$	{146789, 156789, 3478, 3578}
942:9	$0, 0, 0, 0, 0, \frac{60}{169} e^{12}, \frac{10}{169} \sqrt{2}e^{13} + \frac{10}{169} \sqrt{57}e^{45}, \frac{10}{169} \sqrt{19}e^{16},$ $\frac{10}{169} \sqrt{29}e^{26}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{23}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{9}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{50}{169})$ $+ \frac{10}{169} \sqrt{85}e^2 \otimes e_7 + \frac{30}{169} \sqrt{7}e^4 \otimes e_8$	{1289, 134679, 2368, 47}
942:9	$0, 0, 0, 0, 0, \frac{10}{703} \sqrt{1177}e^{12}, \frac{110}{703} \sqrt{19}e^{13} + \frac{40}{703} \sqrt{209}e^{45},$ $\frac{20}{703} \sqrt{902}e^{16}, \frac{60}{703} \sqrt{22}e^{26}$	$(-\frac{6}{37}, \frac{77}{703}, \frac{321}{703}, \frac{21}{37}, -\frac{192}{703}, -\frac{1}{19}, \frac{207}{703}, -\frac{151}{703}, \frac{40}{703})$ $+ \frac{10}{703} \sqrt{6501}e^4 \otimes e_8$	{123578, 128, 13467, 1456, 23689, 256789, 3459, 479}
942:9	$0, 0, 0, 0, 0, \frac{2}{65} \sqrt{123}e^{12}, \frac{2}{65} \sqrt{183}e^{13} + \frac{2}{65} \sqrt{123}e^{45}, \frac{2}{65} \sqrt{15}e^{16},$ $\frac{6}{65} \sqrt{21}e^{26}$	$(-\frac{16}{65}, \frac{4}{13}, \frac{12}{65}, -\frac{2}{65}, -\frac{2}{65}, \frac{4}{65}, -\frac{4}{65}, -\frac{12}{65}, \frac{24}{65})$ $+ \frac{2}{65} \sqrt{453}e^2 \otimes e_7 + \frac{4}{65} \sqrt{57}e^3 \otimes e_8$	{123459, 1239, 146789}
942:9	$0, 0, 0, 0, 0, \frac{3}{298} \sqrt{58}e^{12}, \frac{3}{298} \sqrt{570}e^{13} + \frac{3}{298} \sqrt{2}e^{45}, \frac{3}{298} \sqrt{410}e^{16},$ $\frac{3}{298} \sqrt{590}e^{26}$	$(-\frac{15}{149}, \frac{12}{149}, \frac{18}{149}, \frac{12}{149}, -\frac{9}{149}, -\frac{3}{149}, \frac{3}{149}, -\frac{18}{149}, \frac{9}{149})$ $+ \frac{3}{149} \sqrt{154}e^3 \otimes e_9 + \frac{3}{149} \sqrt{42}e^5 \otimes e_8 + \frac{3}{298} \sqrt{646}e^2 \otimes e_7$	{156789, 3578}
942:9	$0, 0, 0, 0, 0, \frac{1}{11} \sqrt{30}e^{12}, \frac{1}{33} \sqrt{210}e^{13} + \frac{4}{33} \sqrt{15}e^{45}, \frac{4}{33} \sqrt{15}e^{16},$ $\frac{1}{11} \sqrt{10}e^{26}$	$(\frac{10}{33}, -\frac{8}{33}, -\frac{5}{33}, \frac{3}{11}, -\frac{4}{33}, \frac{2}{33}, \frac{5}{33}, \frac{4}{11}, -\frac{2}{11})$ $+ \frac{1}{33} \sqrt{390}e^4 \otimes e_9 + \frac{4}{33} \sqrt{30}e^1 \otimes e_3$	{1289, 169, 234568, 345}
942:9	$0, 0, 0, 0, 0, \frac{6}{221} \sqrt{267}e^{12}, \frac{2}{221} \sqrt{9879}e^{13} + \frac{6}{221} \sqrt{267}e^{45}, \frac{2}{221} \sqrt{5162}e^{16},$ $\frac{2}{221} \sqrt{8277}e^{26}$	$(\frac{4}{221}, -\frac{36}{221}, \frac{110}{221}, \frac{57}{221}, \frac{57}{221}, -\frac{32}{221}, \frac{114}{221}, -\frac{28}{221}, -\frac{4}{13})$ $+ \frac{2}{221} \sqrt{16999}e^3 \otimes e_9$	{123468, 134, 2489, 469}
942:9	$0, 0, 0, 0, 0, \frac{2}{1443} \sqrt{15630}e^{12}, \frac{10}{1443} \sqrt{5210}e^{13} + \frac{2}{1443} \sqrt{15630}e^{45},$ $\frac{4}{1443} \sqrt{30218}e^{16}, \frac{4}{1443} \sqrt{3126}e^{26}$	$(-\frac{292}{1443}, \frac{214}{1443}, \frac{224}{481}, \frac{237}{481}, -\frac{331}{1443}, -\frac{2}{37}, \frac{380}{1443}, -\frac{10}{39}, \frac{136}{1443})$ $+ \frac{1042}{1443} e^4 \otimes e_5 + \frac{2}{1443} \sqrt{397002}e^3 \otimes e_8$	{123469, 123569, 468, 568}
942:9	$0, 0, 0, 0, 0, \frac{1}{289} \sqrt{2665}e^{12}, \frac{1}{289} \sqrt{1261}e^{13} + \frac{1}{289} \sqrt{4589}e^{45}, \frac{1}{289} \sqrt{1781}e^{16},$ $\frac{1}{289} \sqrt{5603}e^{26}$	$(-\frac{12}{289}, \frac{19}{289}, \frac{5}{289}, \frac{52}{289}, -\frac{59}{289}, \frac{7}{289}, -\frac{7}{289}, -\frac{5}{289}, \frac{26}{289})$ $+ \frac{1}{289} \sqrt{7735}e^2 \otimes e_7 + \frac{1}{289} \sqrt{1443}e^4 \otimes e_9$	{1239, 156789, 2456, 3478}
942:9	$0, 0, 0, 0, 0, \frac{50}{7141} \sqrt{854}e^{12}, \frac{50}{7141} \sqrt{1019}e^{13} + \frac{150}{7141} \sqrt{123}e^{45},$ $\frac{25}{7141} \sqrt{5482}e^{16}, \frac{25}{7141} \sqrt{618}e^{26}$	$(\frac{675}{7141}, -\frac{850}{7141}, \frac{50}{7141}, \frac{1125}{7141}, -\frac{400}{7141}, -\frac{175}{7141}, \frac{725}{7141}, \frac{500}{7141}, -\frac{1025}{7141})$ $+ \frac{150}{7141} \sqrt{155}e^4 \otimes e_8 + \frac{25}{7141} \sqrt{2530}e^5 \otimes e_9 + \frac{25}{7141} \sqrt{5074}e^1 \otimes e_3$	{1456, 23689}
942:9	$0, 0, 0, 0, 0, \frac{12}{859} \sqrt{415}e^{12}, \frac{12}{859} \sqrt{470}e^{13} + \frac{12}{859} \sqrt{415}e^{45}, \frac{4}{859} \sqrt{6285}e^{16},$ $\frac{8}{859} \sqrt{435}e^{26}$	$(\frac{79}{859}, -\frac{62}{859}, -\frac{41}{859}, \frac{216}{859}, -\frac{178}{859}, \frac{17}{859}, \frac{38}{859}, \frac{96}{859}, -\frac{45}{859})$ $+ \frac{4}{859} \sqrt{5910}e^1 \otimes e_3 + \frac{4}{859} \sqrt{5910}e^4 \otimes e_8$	{128, 1456, 23689, 3459}
942:9	$0, 0, 0, 0, 0, \frac{1}{53} \sqrt{35}e^{12}, \frac{1}{53} e^{13} + \frac{1}{53} \sqrt{71}e^{45}, \frac{1}{53} e^{16}, \frac{1}{53} \sqrt{57}e^{26}$	$(-\frac{4}{53}, \frac{3}{53}, \frac{5}{53}, -\frac{3}{53}, \frac{4}{53}, -\frac{1}{53}, \frac{1}{53}, -\frac{5}{53}, \frac{2}{53})$ $+ \frac{1}{53} \sqrt{85}e^2 \otimes e_7 + \frac{2}{53} \sqrt{10}e^4 \otimes e_8 + \frac{2}{53} \sqrt{17}e^5 \otimes e_9$	{1289, 134679}
942:9	$0, 0, 0, 0, 0, \frac{3}{205} \sqrt{137}e^{12}, \frac{3}{205} \sqrt{77}e^{13} + \frac{3}{205} \sqrt{237}e^{45}, \frac{3}{205} \sqrt{85}e^{16},$ $\frac{3}{205} \sqrt{291}e^{26}$	$(-\frac{12}{205}, \frac{3}{41}, \frac{9}{205}, -\frac{39}{205}, \frac{36}{205}, \frac{3}{205}, -\frac{3}{205}, -\frac{9}{205}, \frac{18}{205})$ $+ \frac{12}{205} \sqrt{2}e^3 \otimes e_8 + \frac{3}{205} \sqrt{407}e^2 \otimes e_7 + \frac{6}{41} \sqrt{3}e^5 \otimes e_9$	{1239, 146789}
942:9	$0, 0, 0, 0, 0, \frac{4}{1255} \sqrt{1455}e^{12}, \frac{4}{1255} \sqrt{11058}e^{13} + \frac{4}{1255} \sqrt{19497}e^{45},$ $\frac{4}{1255} \sqrt{13483}e^{16}, \frac{4}{1255} \sqrt{18042}e^{26}$	$(-\frac{109}{1255}, -\frac{42}{1255}, \frac{583}{1255}, \frac{516}{1255}, -\frac{42}{1255}, -\frac{151}{1255}, \frac{474}{1255}, -\frac{52}{251}, -\frac{193}{1255})$ $+ \frac{12}{1255} \sqrt{6014}e^4 \otimes e_8 + \frac{4}{1255} \sqrt{52186}e^3 \otimes e_9$	{125789, 14679, 235678, 347}
942:9	$0, 0, 0, 0, 0, \frac{40}{703} \sqrt{209}e^{12}, \frac{110}{703} \sqrt{19}e^{13} + \frac{10}{703} \sqrt{1177}e^{45},$ $\frac{20}{703} \sqrt{902}e^{16}, \frac{60}{703} \sqrt{22}e^{26}$	$(\frac{280}{703}, -\frac{120}{703}, -\frac{270}{703}, \frac{5}{703}, \frac{5}{703}, \frac{160}{703}, \frac{10}{703}, \frac{440}{703}, \frac{40}{703})$ $+ \frac{10}{703} \sqrt{6501}e^1 \otimes e_3$	{12458, 128, 1456, 16, 2345689, 23689, 3459, 39}
942:9	$0, 0, 0, 0, 0, \frac{3}{43} \sqrt{2}e^{12}, \frac{3}{43} \sqrt{10}e^{13} + \frac{3}{43} \sqrt{2}e^{45}, \frac{1}{43} \sqrt{57}e^{16},$ $\frac{1}{43} \sqrt{102}e^{26}$	$(-\frac{5}{43}, \frac{4}{43}, \frac{6}{43}, -\frac{1}{43}, \frac{2}{43}, -\frac{1}{43}, \frac{1}{43}, -\frac{6}{43}, \frac{3}{43})$ $+ \frac{1}{43} \sqrt{105}e^3 \otimes e_9 + \frac{1}{43} \sqrt{123}e^2 \otimes e_7 - \frac{3}{43} e^5 \otimes e_4$	{146789, 156789, 3478, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:9	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{2}e^{12}, \frac{3}{43}\sqrt{10}e^{13} + \frac{3}{43}\sqrt{2}e^{45}, \frac{1}{43}\sqrt{57}e^{16}, \frac{1}{43}\sqrt{102}e^{26}$	$(-\frac{5}{43}, \frac{4}{43}, \frac{6}{43}, -\frac{1}{43}, \frac{2}{43}, -\frac{1}{43}, \frac{1}{43}, -\frac{6}{43}, \frac{3}{43}) + \frac{1}{43}\sqrt{105}e^3 \otimes e_9 + \frac{1}{43}\sqrt{123}e^2 \otimes e_7 + \frac{3}{43}e^5 \otimes e_4$	{146789, 156789, 3478, 3578}
942:9	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57}e^{12}, \frac{10}{169}\sqrt{2}e^{13} + \frac{60}{169}e^{45}, \frac{10}{169}\sqrt{19}e^{16}, \frac{10}{169}\sqrt{29}e^{26}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{40}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{40}{169}, \frac{50}{169}) + \frac{10}{169}\sqrt{85}e^2 \otimes e_7 + \frac{30}{169}\sqrt{7}e^1 \otimes e_3$	{124589, 1289, 234568, 2368}
942:9	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{1122}e^{12}, \frac{5}{62}\sqrt{34}e^{13} + \frac{1}{62}\sqrt{1122}e^{45}, \frac{17}{62}\sqrt{2}e^{16}, \frac{1}{62}\sqrt{1598}e^{26}$	$(-\frac{5}{31}, \frac{11}{31}, -\frac{1}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{6}{31}, -\frac{6}{31}, \frac{1}{31}, \frac{17}{31}) + \frac{1}{62}\sqrt{3502}e^2 \otimes e_7$	{123459, 1239, 146789, 2456, 26, 3478}
942:9	$0, 0, 0, 0, 0, \frac{5}{1537}\sqrt{1886}e^{12}, \frac{11}{1537}\sqrt{1886}e^{13} + \frac{4}{1537}\sqrt{32062}e^{45}, \frac{4}{1537}\sqrt{16031}e^{16}, \frac{1}{1537}\sqrt{503562}e^{26}$	$(-\frac{86}{1537}, -\frac{96}{1537}, \frac{675}{1537}, \frac{665}{1537}, -\frac{76}{1537}, -\frac{182}{1537}, \frac{589}{1537}, -\frac{268}{1537}, -\frac{278}{1537}) + \frac{1}{1537}\sqrt{1397526}e^4 \otimes e_9 + \frac{20}{1537}\sqrt{2829}e^3 \otimes e_8$	{125789, 1369, 24568, 347}
942:9	$0, 0, 0, 0, 0, \frac{6}{83}\sqrt{2}e^{12}, \frac{6}{83}\sqrt{10}e^{13} + \frac{6}{83}\sqrt{2}e^{45}, \frac{2}{83}\sqrt{57}e^{16}, \frac{2}{83}\sqrt{102}e^{26}$	$(-\frac{10}{83}, \frac{8}{83}, \frac{12}{83}, \frac{1}{83}, \frac{1}{83}, -\frac{2}{83}, \frac{2}{83}, -\frac{12}{83}, \frac{6}{83}) + \frac{2}{83}\sqrt{105}e^3 \otimes e_9 + \frac{2}{83}\sqrt{123}e^2 \otimes e_7$	{146789, 3478}
942:9	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{690}e^{12}, \frac{8}{231}\sqrt{23}e^{13} + \frac{4}{231}\sqrt{690}e^{45}, \frac{4}{231}\sqrt{506}e^{16}, \frac{8}{231}\sqrt{138}e^{26}$	$(\frac{19}{231}, \frac{20}{231}, \frac{15}{77}, \frac{72}{77}, -\frac{152}{231}, \frac{13}{77}, \frac{64}{231}, \frac{58}{231}, \frac{59}{231}) + \frac{368}{231}e^4 \otimes e_5$	{124789, 125789, 14679, 15679, 234678, 235678, 347, 357}
942:9	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{123}e^{12}, \frac{2}{77}\sqrt{183}e^{13} + \frac{2}{77}\sqrt{123}e^{45}, \frac{2}{77}\sqrt{15}e^{16}, \frac{6}{77}\sqrt{21}e^{26}$	$(-\frac{16}{77}, \frac{20}{77}, \frac{12}{77}, -\frac{2}{11}, \frac{10}{77}, \frac{4}{77}, -\frac{4}{77}, -\frac{12}{77}, \frac{24}{77}) + \frac{24}{77}e^5 \otimes e_4 + \frac{2}{77}\sqrt{453}e^2 \otimes e_7 + \frac{4}{77}\sqrt{57}e^3 \otimes e_8$	{146789, 156789}
942:10	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{74}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{15}e^{16}, \frac{1}{29}\sqrt{14}e^{14} + \frac{2}{29}\sqrt{46}e^{26}$	$(-\frac{3}{29}, \frac{3}{29}, -\frac{3}{29}, \frac{6}{29}, \frac{12}{29}, 0, -\frac{6}{29}, -\frac{3}{29}, \frac{3}{29}) + \frac{1}{29}\sqrt{166}e^5 \otimes e_9 + \frac{1}{29}\sqrt{262}e^2 \otimes e_7 + \frac{2}{29}\sqrt{11}e^4 \otimes e_8$	{12349, 2456}
942:10	$0, 0, 0, 0, 0, \frac{20}{331}\sqrt{39}e^{12}, \frac{80}{331}\sqrt{6}e^{13}, \frac{10}{331}\sqrt{165}e^{16}, \frac{90}{331}\sqrt{2}e^{14} + \frac{30}{331}\sqrt{3}e^{26}$	$(-\frac{49}{331}, \frac{69}{331}, \frac{37}{331}, \frac{138}{331}, -\frac{113}{331}, \frac{20}{331}, -\frac{12}{331}, -\frac{29}{331}, \frac{89}{331}) + \frac{10}{331}\sqrt{417}e^3 \otimes e_5 + \frac{10}{331}\sqrt{498}e^4 \otimes e_7$	{123468, 134, 24589, 4569}
942:10	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{15}e^{12}, \frac{3}{95}\sqrt{3}e^{13}, \frac{6}{95}\sqrt{3}e^{16}, \frac{3}{95}\sqrt{177}e^{14} + \frac{9}{95}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95}) + \frac{3}{95}\sqrt{174}e^5 \otimes e_9 + \frac{3}{95}\sqrt{183}e^1 \otimes e_3 + \frac{9}{95}\sqrt{19}e^4 \otimes e_7$	{12789, 1679, 235678, 357}
942:10	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{15}e^{12}, \frac{3}{95}\sqrt{3}e^{13}, \frac{6}{95}\sqrt{3}e^{16}, \frac{3}{95}\sqrt{177}e^{14} + \frac{9}{95}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95}) + \frac{3}{95}\sqrt{174}e^5 \otimes e_9 + \frac{3}{95}\sqrt{183}e^1 \otimes e_3 - \frac{9}{95}\sqrt{19}e^4 \otimes e_7$	{12789, 1679, 235678, 357}
942:10	$0, 0, 0, 0, 0, \frac{1}{113}\sqrt{2337}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{2}{113}\sqrt{902}e^{16}, \frac{1}{113}\sqrt{1763}e^{14} + \frac{2}{113}\sqrt{82}e^{26}$	$(\frac{13}{113}, -\frac{14}{113}, \frac{4}{113}, -\frac{28}{113}, \frac{53}{113}, -\frac{1}{113}, \frac{17}{113}, \frac{12}{113}, -\frac{15}{113}) + \frac{1}{113}\sqrt{3485}e^5 \otimes e_8 + \frac{2}{113}\sqrt{1230}e^1 \otimes e_4$	{1238, 1278, 1356, 1567}
942:10	$0, 0, 0, 0, 0, \frac{2}{1603}\sqrt{16042}e^{12}, \frac{3}{1603}\sqrt{48126}e^{13}, \frac{6}{1603}\sqrt{3085}e^{16}, \frac{4}{1603}\sqrt{31467}e^{14} + \frac{2}{1603}\sqrt{35169}e^{26}$	$(\frac{2}{229}, \frac{218}{1603}, -\frac{195}{1603}, \frac{436}{1603}, -\frac{603}{1603}, \frac{232}{1603}, -\frac{181}{1603}, \frac{246}{1603}, \frac{450}{1603}) + \frac{1}{1603}\sqrt{936606}e^1 \otimes e_5 + \frac{4}{1603}\sqrt{53062}e^4 \otimes e_7$	{12348, 1346, 245689, 459}
942:10	$0, 0, 0, 0, 0, \frac{33}{4847}\sqrt{1358}e^{12}, \frac{33}{4847}\sqrt{2702}e^{13}, \frac{132}{4847}\sqrt{31}e^{16}, \frac{66}{4847}\sqrt{318}e^{14} + \frac{33}{4847}\sqrt{3090}e^{26}$	$(-\frac{726}{4847}, \frac{528}{4847}, \frac{165}{4847}, \frac{1056}{4847}, \frac{1419}{4847}, -\frac{198}{4847}, -\frac{561}{4847}, -\frac{924}{4847}, \frac{330}{4847}) + \frac{132}{4847}\sqrt{137}e^3 \otimes e_8 + \frac{66}{4847}\sqrt{1166}e^2 \otimes e_7 + \frac{99}{4847}\sqrt{222}e^5 \otimes e_9$	{12349, 146789}
942:10	$0, 0, 0, 0, 0, \frac{30}{1217}\sqrt{706}e^{12}, \frac{1}{1217}\sqrt{281694}e^{13}, \frac{2}{1217}\sqrt{176853}e^{16}, \frac{4}{1217}\sqrt{24357}e^{14} + \frac{6}{1217}\sqrt{6001}e^{26}$	$(\frac{266}{1217}, \frac{14}{1217}, \frac{79}{1217}, \frac{28}{1217}, -\frac{793}{1217}, \frac{280}{1217}, \frac{345}{1217}, \frac{546}{1217}, \frac{294}{1217}) + \frac{3}{1217}\sqrt{236510}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459}
942:10	$0, 0, 0, 0, 0, \frac{6}{3049}\sqrt{13073}e^{12}, \frac{20}{3049}\sqrt{2307}e^{13}, \frac{14}{3049}\sqrt{4614}e^{16}, \frac{2}{3049}\sqrt{798222}e^{14} + \frac{2}{3049}\sqrt{72286}e^{26}$	$(-\frac{600}{3049}, \frac{338}{3049}, \frac{579}{3049}, \frac{676}{3049}, \frac{1614}{3049}, -\frac{262}{3049}, -\frac{21}{3049}, -\frac{862}{3049}, \frac{76}{3049}) + \frac{2}{3049}\sqrt{1026615}e^5 \otimes e_9 + \frac{2}{3049}\sqrt{1103515}e^4 \otimes e_8$	{1234567, 12456, 2349, 2479}
942:10	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{8490}e^{12}, \frac{2}{223}\sqrt{1415}e^{13}, \frac{2}{223}\sqrt{1415}e^{16}, \frac{1}{223}\sqrt{51506}e^{14} + \frac{1}{223}\sqrt{8490}e^{26}$	$(-\frac{20}{223}, \frac{66}{223}, \frac{46}{223}, \frac{132}{223}, -\frac{151}{223}, \frac{46}{223}, \frac{26}{223}, \frac{26}{223}, \frac{112}{223}) + \frac{1}{223}\sqrt{105842}e^4 \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:10	$0, 0, 0, 0, 0, \frac{9}{1273}\sqrt{3262}e^{12}, \frac{9}{1273}\sqrt{3178}e^{13}, \frac{36}{1273}\sqrt{203}e^{16},$ $\frac{36}{1273}\sqrt{301}e^{14} + \frac{9}{1273}\sqrt{42}e^{26}$	$(\frac{234}{1273}, -\frac{108}{1273}, -\frac{333}{1273}, -\frac{216}{1273}, \frac{585}{1273}, \frac{126}{1273}, -\frac{99}{1273}, \frac{360}{1273}, \frac{18}{1273})$ $+ \frac{36}{1273}\sqrt{602}e^1 \otimes e_3 + \frac{9}{1273}\sqrt{6398}e^5 \otimes e_9$	{1289, 169, 23568, 35}
942:10	$0, 0, 0, 0, 0, \frac{4}{159}\sqrt{427}e^{12}, \frac{2}{159}\sqrt{777}e^{13}, \frac{2}{159}\sqrt{959}e^{16},$ $\frac{2}{159}\sqrt{105}e^{14} + \frac{2}{159}\sqrt{406}e^{26}$	$(\frac{22}{159}, \frac{2}{53}, -\frac{34}{159}, \frac{4}{53}, -\frac{50}{159}, \frac{28}{53}, -\frac{4}{159}, \frac{50}{159}, \frac{34}{159})$ $+ \frac{2}{159}\sqrt{1841}e^2 \otimes e_5 + \frac{2}{159}\sqrt{2170}e^1 \otimes e_3$	{1289, 1569, 2368, 35}
942:10	$0, 0, 0, 0, 0, \frac{4}{3861}\sqrt{91069}e^{12}, \frac{2}{3861}\sqrt{435378}e^{13}, \frac{4}{3861}\sqrt{156327}e^{16},$ $\frac{2}{3861}\sqrt{415411}e^{14} + \frac{8}{3861}\sqrt{974}e^{26}$	$(\frac{212}{3861}, -\frac{127}{1287}, \frac{113}{429}, -\frac{254}{1287}, \frac{335}{3861}, -\frac{13}{297}, \frac{1229}{3861}, \frac{43}{3861}, -\frac{50}{351})$ $+ \frac{10}{3861}\sqrt{37986}e^1 \otimes e_4 + \frac{4}{3861}\sqrt{191878}e^3 \otimes e_8$	{12578, 1278, 1356, 136}
942:10	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718}e^{12}, \frac{2}{287}\sqrt{20822}e^{13}, \frac{1}{287}\sqrt{19027}e^{16},$ $\frac{1}{287}\sqrt{13283}e^{14} + \frac{3}{287}\sqrt{2513}e^{26}$	$(-\frac{11}{574}, \frac{34}{287}, \frac{171}{287}, \frac{68}{287}, -\frac{188}{287}, \frac{57}{574}, \frac{331}{574}, \frac{23}{287}, \frac{125}{574})$ $+ \frac{5}{287}\sqrt{6821}e^3 \otimes e_5$	{12368, 125678, 13, 157, 23789, 2589, 3679, 569}
942:10	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{42}e^{12}, \frac{6}{155}\sqrt{69}e^{13}, \frac{3}{155}\sqrt{546}e^{16},$ $\frac{9}{155}\sqrt{70}e^{14} + \frac{3}{155}\sqrt{258}e^{26}$	$(-\frac{147}{620}, \frac{69}{310}, \frac{13}{31}, \frac{69}{155}, -\frac{43}{155}, -\frac{9}{620}, \frac{113}{620}, -\frac{39}{155}, \frac{129}{620})$ $+ \frac{3}{155}\sqrt{1434}e^3 \otimes e_5 + \frac{6}{155}\sqrt{471}e^4 \otimes e_8$	{1389, 15789, 3678, 568}
942:10	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2170}e^{12}, \frac{2}{199}\sqrt{462}e^{13}, \frac{28}{199}\sqrt{5}e^{16},$ $\frac{20}{199}\sqrt{14}e^{14} + \frac{18}{199}\sqrt{14}e^{26}$	$(\frac{33}{199}, \frac{23}{398}, \frac{3}{199}, -\frac{23}{199}, -\frac{135}{398}, \frac{43}{398}, \frac{36}{199}, \frac{109}{398}, \frac{10}{199})$ $+ \frac{2}{199}\sqrt{2590}e^1 \otimes e_4 + \frac{4}{199}\sqrt{609}e^2 \otimes e_5$	{234678, 2468, 3457, 45}
942:10	$0, 0, 0, 0, 0, \frac{27}{2807}\sqrt{1166}e^{12}, \frac{135}{2807}\sqrt{22}e^{13}, \frac{108}{2807}\sqrt{5}e^{16},$ $\frac{108}{2807}\sqrt{5}e^{14} + \frac{27}{2807}\sqrt{1434}e^{26}$	$(\frac{54}{2807}, \frac{108}{2807}, -\frac{675}{2807}, \frac{216}{2807}, \frac{999}{2807}, \frac{162}{2807}, -\frac{621}{2807}, \frac{216}{2807}, \frac{270}{2807})$ $+ \frac{108}{2807}\sqrt{82}e^1 \otimes e_3 + \frac{1296}{2807}e^2 \otimes e_7 + \frac{27}{2807}\sqrt{1486}e^5 \otimes e_9$	{16789, 3578}
942:10	$0, 0, 0, 0, 0, \frac{2}{1147}\sqrt{168639}e^{12}, \frac{1}{1147}\sqrt{541994}e^{13}, \frac{1}{1147}\sqrt{780270}e^{16},$ $\frac{4}{1147}\sqrt{27687}e^{14} + \frac{3}{1147}\sqrt{35238}e^{26}$	$(\frac{339}{1147}, -\frac{51}{1147}, -\frac{500}{1147}, -\frac{102}{1147}, \frac{162}{1147}, \frac{288}{1147}, -\frac{161}{1147}, \frac{627}{1147}, \frac{237}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:10	$0, 0, 0, 0, 0, \frac{2}{1123}\sqrt{3453}e^{12}, \frac{1}{1123}\sqrt{448890}e^{13}, \frac{6}{1123}\sqrt{24171}e^{16},$ $\frac{2}{1123}\sqrt{877062}e^{14} + \frac{1}{1123}\sqrt{453494}e^{26}$	$(-\frac{390}{1123}, \frac{371}{1123}, \frac{363}{1123}, \frac{742}{1123}, \frac{168}{1123}, -\frac{19}{1123}, -\frac{27}{1123}, -\frac{409}{1123}, \frac{352}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_8$	{135789, 13789, 1589, 189, 3568, 368, 5678, 678}
942:10	$0, 0, 0, 0, 0, \frac{2}{373}\sqrt{2914}e^{12}, \frac{10}{373}\sqrt{282}e^{13}, \frac{6}{373}\sqrt{282}e^{16},$ $\frac{2}{373}\sqrt{3995}e^{14} + \frac{2}{373}\sqrt{6110}e^{26}$	$(-\frac{40}{373}, \frac{59}{373}, \frac{5}{373}, \frac{118}{373}, -\frac{89}{373}, \frac{19}{373}, -\frac{35}{373}, -\frac{21}{373}, \frac{78}{373})$ $+ \frac{2}{373}\sqrt{10246}e^2 \otimes e_7 + \frac{2}{373}\sqrt{5734}e^3 \otimes e_5$	{12349, 1456789, 2456, 3478}
942:10	$0, 0, 0, 0, 0, \frac{16}{117}e^{12}, \frac{16}{117}\sqrt{33}e^{13}, \frac{16}{117}\sqrt{33}e^{16}, \frac{64}{117}e^{14} + \frac{16}{117}e^{26}$	$(-\frac{31}{117}, \frac{2}{13}, \frac{28}{39}, \frac{4}{13}, \frac{20}{117}, -\frac{1}{9}, \frac{53}{117}, -\frac{44}{117}, \frac{5}{117})$ $+ \frac{16}{117}\sqrt{97}e^3 \otimes e_8$	{1245789, 124789, 134569, 13469, 24568, 2468, 3457, 347}
942:10	$0, 0, 0, 0, 0, \frac{24}{589}\sqrt{205}e^{12}, \frac{4}{589}\sqrt{9061}e^{13}, \frac{164}{589}\sqrt{2}e^{16},$ $\frac{8}{589}\sqrt{1763}e^{14} + \frac{4}{589}\sqrt{11521}e^{26}$	$(-\frac{63}{589}, \frac{128}{589}, -\frac{137}{589}, \frac{256}{589}, \frac{84}{589}, \frac{65}{589}, -\frac{200}{589}, \frac{2}{589}, \frac{193}{589})$ $+ \frac{4}{589}\sqrt{20705}e^2 \otimes e_7$	{123459, 12349, 1456789, 146789, 2456, 246, 34578, 3478}
942:10	$0, 0, 0, 0, 0, \frac{1}{1303}\sqrt{14010}e^{12}, \frac{1}{1303}\sqrt{333438}e^{13}, \frac{1}{1303}\sqrt{43898}e^{16},$ $\frac{4}{1303}\sqrt{15411}e^{14} + \frac{2}{1303}\sqrt{43431}e^{26}$	$(\frac{77}{1303}, -\frac{63}{1303}, \frac{418}{1303}, -\frac{126}{1303}, -\frac{390}{1303}, \frac{14}{1303}, \frac{495}{1303}, \frac{91}{1303}, -\frac{49}{1303})$ $+ \frac{4}{1303}\sqrt{30822}e^1 \otimes e_5 + \frac{7}{1303}\sqrt{12142}e^3 \otimes e_9$	{1279, 16789, 23567, 3578}
942:10	$0, 0, 0, 0, 0, \frac{4}{163}\sqrt{82}e^{12}, \frac{2}{163}\sqrt{2378}e^{13}, \frac{8}{163}\sqrt{41}e^{16},$ $\frac{2}{163}\sqrt{779}e^{14} + \frac{2}{163}\sqrt{246}e^{26}$	$(-\frac{32}{163}, \frac{17}{163}, \frac{35}{163}, \frac{34}{163}, \frac{85}{163}, -\frac{15}{163}, \frac{3}{163}, -\frac{47}{163}, \frac{2}{163})$ $+ \frac{2}{163}\sqrt{2870}e^5 \otimes e_7 + \frac{2}{163}\sqrt{3198}e^3 \otimes e_8$	{12356, 178, 2379, 5689}
942:10	$0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{148562}e^{12}, \frac{5}{1157}\sqrt{2518}e^{13}, \frac{4}{1157}\sqrt{26439}e^{16},$ $\frac{4}{1157}\sqrt{54137}e^{14} + \frac{1}{1157}\sqrt{823386}e^{26}$	$(\frac{50}{1157}, -\frac{76}{1157}, \frac{167}{1157}, -\frac{152}{1157}, 1, -\frac{2}{89}, \frac{217}{1157}, \frac{24}{1157}, -\frac{102}{1157})$ $+ \frac{1}{1157}\sqrt{2429870}e^5 \otimes e_9$	{1234568, 1245678, 1345, 1457, 234789, 2489, 34679, 469}
942:10	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{59}e^{13}, \frac{3}{65}\sqrt{46}e^{16},$ $\frac{9}{65}\sqrt{5}e^{14} + \frac{6}{65}\sqrt{7}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{3}{65}, -\frac{12}{65}, \frac{3}{65})$ $+ \frac{3}{13}\sqrt{3}e^3 \otimes e_9 + \frac{3}{65}\sqrt{14}e^5 \otimes e_8 - \frac{3}{65}\sqrt{61}e^4 \otimes e_7$	{1234568, 134, 24589, 469}
942:10	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{59}e^{13}, \frac{3}{65}\sqrt{46}e^{16},$ $\frac{9}{65}\sqrt{5}e^{14} + \frac{6}{65}\sqrt{7}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{3}{65}, -\frac{12}{65}, \frac{3}{65})$ $+ \frac{3}{13}\sqrt{3}e^3 \otimes e_9 + \frac{3}{65}\sqrt{14}e^5 \otimes e_8 + \frac{3}{65}\sqrt{61}e^4 \otimes e_7$	{1234568, 134, 24589, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:10	$0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1221}e^{12}, \frac{52}{581}\sqrt{37}e^{13}, \frac{148}{581}\sqrt{2}e^{16},$ $\frac{4}{581}\sqrt{814}e^{14} + \frac{4}{581}\sqrt{7881}e^{26}$	$(-\frac{67}{581}, \frac{132}{581}, -\frac{97}{581}, \frac{264}{581}, -\frac{32}{581}, \frac{65}{581}, -\frac{164}{581}, -\frac{2}{581}, \frac{197}{581})$ $+\frac{36}{581}\sqrt{185}e^2 \otimes e_7 + \frac{8}{581}\sqrt{962}e^4 \otimes e_5$	{12349, 146789, 246, 3478}
942:10	$0, 0, 0, 0, 0, \frac{80}{547}\sqrt{3}e^{12}, \frac{16}{547}\sqrt{213}e^{13}, \frac{16}{547}\sqrt{213}e^{16},$ $\frac{128}{547}\sqrt{3}e^{14} + \frac{80}{547}\sqrt{3}e^{26}$	$(-\frac{121}{547}, \frac{110}{547}, \frac{252}{547}, \frac{220}{547}, -\frac{164}{547}, -\frac{11}{547}, \frac{131}{547}, -\frac{132}{547}, \frac{99}{547})$ $+\frac{16}{547}\sqrt{789}e^3 \otimes e_8 + \frac{64}{547}\sqrt{42}e^4 \otimes e_5$	{123569, 15789, 2357, 568}
942:10	$0, 0, 0, 0, 0, \frac{9}{545}\sqrt{134}e^{12}, \frac{9}{545}\sqrt{305}e^{13}, \frac{9}{109}\sqrt{10}e^{16},$ $\frac{9}{545}\sqrt{209}e^{14} + \frac{9}{1090}\sqrt{42}e^{26}$	$(\frac{9}{545}, -\frac{36}{545}, \frac{63}{545}, -\frac{72}{545}, \frac{153}{545}, -\frac{27}{545}, \frac{72}{545}, -\frac{18}{545}, -\frac{63}{545})$ $+\frac{9}{1090}\sqrt{1434}e^3 \otimes e_8 + \frac{9}{1090}\sqrt{1702}e^1 \otimes e_4 + \frac{9}{1090}\sqrt{934}e^5 \otimes e_7$	{24568, 347}
942:10	$0, 0, 0, 0, 0, \frac{16}{1039}\sqrt{1155}e^{12}, \frac{12}{1039}\sqrt{2310}e^{13}, \frac{8}{1039}\sqrt{1155}e^{16},$ $\frac{24}{1039}\sqrt{385}e^{14} + \frac{140}{1039}\sqrt{22}e^{26}$	$(-\frac{159}{1039}, \frac{242}{1039}, -\frac{159}{1039}, \frac{484}{1039}, \frac{138}{1039}, \frac{83}{1039}, -\frac{318}{1039}, -\frac{76}{1039}, \frac{325}{1039})$ $+\frac{4}{1039}\sqrt{52710}e^2 \otimes e_7 + \frac{8}{1039}\sqrt{2590}e^4 \otimes e_8$	{123459, 12349, 2456, 246}
942:10	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{2562}e^{12}, \frac{28}{201}\sqrt{3}e^{13}, \frac{2}{201}\sqrt{105}e^{16},$ $\frac{1}{67}\sqrt{238}e^{14} + \frac{28}{201}\sqrt{3}e^{26}$	$(\frac{5}{67}, -\frac{1}{67}, -\frac{13}{67}, -\frac{2}{67}, \frac{10}{67}, \frac{4}{67}, -\frac{8}{67}, \frac{9}{67}, \frac{3}{67})$ $+\frac{1}{201}\sqrt{4074}e^2 \otimes e_7 + \frac{1}{201}\sqrt{546}e^5 \otimes e_9 + \frac{2}{201}\sqrt{777}e^1 \otimes e_4$	{24568, 3457}
942:10	$0, 0, 0, 0, 0, \frac{20}{3181}\sqrt{1855}e^{12}, \frac{10}{3181}\sqrt{6594}e^{13}, \frac{20}{3181}\sqrt{413}e^{16},$ $\frac{10}{3181}\sqrt{6587}e^{14} + \frac{120}{3181}\sqrt{42}e^{26}$	$(\frac{276}{3181}, -\frac{37}{3181}, -\frac{663}{3181}, -\frac{74}{3181}, \frac{279}{3181}, \frac{239}{3181}, \frac{387}{3181}, \frac{515}{3181}, \frac{202}{3181})$ $+\frac{10}{3181}\sqrt{9058}e^1 \otimes e_4 + \frac{20}{3181}\sqrt{2814}e^2 \otimes e_7$	{24568, 2468, 3457, 347}
942:10	$0, 0, 0, 0, 0, \frac{6}{121}\sqrt{111}e^{12}, \frac{3}{121}\sqrt{185}e^{13}, \frac{1}{121}\sqrt{2553}e^{16},$ $\frac{1}{121}\sqrt{555}e^{14} + \frac{1}{121}\sqrt{2590}e^{26}$	$(-\frac{45}{242}, \frac{29}{121}, \frac{51}{242}, \frac{58}{121}, -\frac{45}{121}, \frac{13}{242}, \frac{3}{121}, -\frac{16}{121}, \frac{71}{242})$ $+\frac{1}{121}\sqrt{7030}e^4 \otimes e_8 + \frac{1}{121}\sqrt{8769}e^2 \otimes e_5$	{123789, 1289, 2368, 2678}
942:10	$0, 0, 0, 0, 0, \frac{16}{1399}\sqrt{1995}e^{12}, \frac{20}{1399}\sqrt{406}e^{13}, \frac{8}{1399}\sqrt{1995}e^{16},$ $\frac{8}{1399}\sqrt{1995}e^{14} + \frac{12}{1399}\sqrt{2310}e^{26}$	$(\frac{69}{1399}, \frac{138}{1399}, -\frac{491}{1399}, \frac{276}{1399}, \frac{162}{1399}, \frac{207}{1399}, -\frac{422}{1399}, \frac{276}{1399}, \frac{345}{1399})$ $+\frac{108}{1399}\sqrt{70}e^2 \otimes e_7 + \frac{8}{1399}\sqrt{8890}e^1 \otimes e_3$	{145679, 14679, 3457, 347}
942:10	$0, 0, 0, 0, 0, \frac{24}{3221}\sqrt{2923}e^{12}, \frac{6}{3221}\sqrt{70942}e^{13}, \frac{12}{3221}\sqrt{10823}e^{16},$ $\frac{6}{3221}\sqrt{48427}e^{14} + \frac{12}{3221}\sqrt{2607}e^{26}$	$(\frac{636}{3221}, -\frac{393}{3221}, -\frac{567}{3221}, -\frac{786}{3221}, \frac{1491}{3221}, \frac{243}{3221}, \frac{69}{3221}, \frac{879}{3221}, -\frac{150}{3221})$ $+\frac{12}{3221}\sqrt{22910}e^5 \otimes e_7 + \frac{6}{3221}\sqrt{136670}e^1 \otimes e_4$	{234678, 24568, 347, 45}
942:10	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{4551}e^{13}, \frac{1}{121}\sqrt{1406}e^{16},$ $\frac{1}{121}\sqrt{2553}e^{14} + \frac{1}{121}\sqrt{111}e^{26}$	$(-\frac{13}{121}, -\frac{3}{242}, \frac{58}{121}, -\frac{3}{121}, \frac{93}{242}, -\frac{29}{242}, \frac{45}{121}, -\frac{5}{22}, -\frac{16}{121})$ $+\frac{1}{121}\sqrt{11026}e^3 \otimes e_9 + \frac{1}{121}\sqrt{4773}e^5 \otimes e_8$	{123468, 1345, 2489, 4569}
942:10	$0, 0, 0, 0, 0, \frac{108}{3107}\sqrt{101}e^{12}, \frac{6}{3107}\sqrt{48682}e^{13}, \frac{2}{3107}\sqrt{407838}e^{16},$ $\frac{4}{3107}\sqrt{150591}e^{14} + \frac{6}{3107}\sqrt{37774}e^{26}$	$(-\frac{23}{239}, \frac{184}{3107}, \frac{1281}{3107}, \frac{368}{3107}, -\frac{844}{3107}, -\frac{115}{3107}, \frac{982}{3107}, -\frac{414}{3107}, \frac{69}{3107})$ $+\frac{2}{3107}\sqrt{1057470}e^3 \otimes e_9 + \frac{2}{3107}\sqrt{668418}e^4 \otimes e_5$	{123468, 134, 2489, 469}
942:10	$0, 0, 0, 0, 0, \frac{24}{3221}\sqrt{2923}e^{12}, \frac{6}{3221}\sqrt{70942}e^{13}, \frac{12}{3221}\sqrt{10823}e^{16},$ $\frac{6}{3221}\sqrt{48427}e^{14} + \frac{12}{3221}\sqrt{2607}e^{26}$	$(\frac{636}{3221}, -\frac{393}{3221}, \frac{593}{3221}, -\frac{786}{3221}, -\frac{829}{3221}, \frac{243}{3221}, \frac{1229}{3221}, \frac{879}{3221}, -\frac{150}{3221})$ $+\frac{12}{3221}\sqrt{22910}e^3 \otimes e_5 + \frac{6}{3221}\sqrt{136670}e^1 \otimes e_4$	{234678, 24568, 347, 45}
942:10	$0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{6}{1123}\sqrt{24171}e^{13}, \frac{1}{1123}\sqrt{448890}e^{16},$ $\frac{1}{1123}\sqrt{877062}e^{14} + \frac{2}{1123}\sqrt{3453}e^{26}$	$(-\frac{199}{1123}, \frac{371}{1123}, -\frac{210}{1123}, \frac{742}{1123}, \frac{168}{1123}, \frac{172}{1123}, -\frac{409}{1123}, -\frac{27}{1123}, \frac{543}{1123})$ $+\frac{1}{1123}\sqrt{2198410}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 23578, 2378, 3567, 367}
942:10	$0, 0, 0, 0, 0, \frac{39}{625}\sqrt{37}e^{12}, \frac{13}{625}\sqrt{87}e^{13}, \frac{52}{625}\sqrt{21}e^{16},$ $\frac{13}{625}e^{14} + \frac{26}{625}\sqrt{6}e^{26}$	$(\frac{13}{625}, \frac{26}{625}, -\frac{156}{625}, \frac{52}{625}, \frac{221}{625}, \frac{39}{625}, -\frac{143}{625}, \frac{52}{625}, \frac{13}{125})$ $+\frac{13}{625}\sqrt{337}e^3 \otimes e_8 + \frac{52}{625}\sqrt{19}e^2 \otimes e_7 + \frac{78}{625}\sqrt{14}e^1 \otimes e_3$	{1289, 2368}
942:10	$0, 0, 0, 0, 0, \frac{1}{1349}\sqrt{195566}e^{12}, \frac{1}{1349}\sqrt{287798}e^{13}, \frac{12}{1349}\sqrt{1281}e^{16},$ $\frac{28}{1349}\sqrt{122}e^{14} + \frac{1}{1349}\sqrt{477386}e^{26}$	$(-\frac{102}{1349}, \frac{124}{1349}, -\frac{201}{1349}, \frac{248}{1349}, \frac{573}{1349}, \frac{22}{1349}, -\frac{303}{1349}, -\frac{80}{1349}, \frac{146}{1349})$ $+\frac{1}{1349}\sqrt{373198}e^5 \otimes e_9 + \frac{4}{1349}\sqrt{41419}e^2 \otimes e_7$	{12349, 146789, 2456, 34578}
942:10	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{102}e^{12}, \frac{6}{95}\sqrt{21}e^{13}, \frac{3}{95}\sqrt{186}e^{16},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{6}{95}\sqrt{21}e^4 \otimes e_7 + \frac{9}{95}\sqrt{30}e^1 \otimes e_3$	{1248, 1456, 234689, 3459}
942:10	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{102}e^{12}, \frac{6}{95}\sqrt{21}e^{13}, \frac{3}{95}\sqrt{186}e^{16},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 - \frac{6}{95}\sqrt{21}e^4 \otimes e_7 + \frac{9}{95}\sqrt{30}e^1 \otimes e_3$	{1248, 1456, 234689, 3459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:10	$0, 0, 0, 0, 0, \frac{11}{269}\sqrt{33}e^{12}, \frac{11}{1345}\sqrt{653}e^{13}, \frac{22}{1345}\sqrt{86}e^{16},$ $\frac{11}{1345}\sqrt{731}e^{14} + \frac{22}{1345}\sqrt{146}e^{26}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{269}, -\frac{44}{1345}, \frac{253}{1345}, \frac{11}{269}, -\frac{143}{1345}, \frac{132}{1345}, \frac{33}{1345})$ $+ \frac{11}{1345}\sqrt{293}e^5 \otimes e_8 + \frac{22}{1345}\sqrt{258}e^1 \otimes e_4 + \frac{264}{1345}\sqrt{2}e^2 \otimes e_7$	{2468, 3457}
942:10	$0, 0, 0, 0, 0, \frac{24}{3071}\sqrt{190}e^{12}, \frac{60}{3071}\sqrt{166}e^{13}, \frac{8}{3071}\sqrt{5385}e^{16},$ $\frac{24}{3071}\sqrt{145}e^{14} + \frac{8}{3071}\sqrt{39630}e^{26}$	$(-\frac{343}{3071}, \frac{206}{3071}, \frac{309}{3071}, \frac{412}{3071}, \frac{238}{3071}, -\frac{137}{3071}, -\frac{34}{3071}, -\frac{480}{3071}, \frac{69}{3071})$ $+ \frac{4}{3071}\sqrt{45510}e^2 \otimes e_7 + \frac{8}{3071}\sqrt{9870}e^3 \otimes e_9$	{1456789, 146789, 34578, 3478}
942:10	$0, 0, 0, 0, 0, \frac{8}{3601}\sqrt{14170}e^{12}, \frac{4}{3601}\sqrt{20710}e^{13}, \frac{8}{3601}\sqrt{38695}e^{16},$ $\frac{8}{3601}\sqrt{31610}e^{14} + \frac{4}{3601}\sqrt{317735}e^{26}$	$(-\frac{304}{3601}, \frac{482}{3601}, \frac{467}{3601}, \frac{964}{3601}, -\frac{1394}{3601}, \frac{178}{3601}, \frac{163}{3601}, -\frac{126}{3601}, \frac{660}{3601})$ $+ \frac{2}{3601}\sqrt{859465}e^4 \otimes e_8 + \frac{2}{3601}\sqrt{931405}e^1 \otimes e_5$	{13467, 146, 3459, 4579}
942:10	$0, 0, 0, 0, 0, \frac{3}{1147}\sqrt{35238}e^{12}, \frac{1}{1147}\sqrt{780270}e^{13}, \frac{1}{1147}\sqrt{541994}e^{16},$ $\frac{4}{1147}\sqrt{27687}e^{14} + \frac{2}{1147}\sqrt{168639}e^{26}$	$(-\frac{55}{1147}, -\frac{51}{1147}, \frac{22}{37}, -\frac{102}{1147}, \frac{162}{1147}, -\frac{106}{1147}, \frac{627}{1147}, -\frac{161}{1147}, -\frac{157}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^3 \otimes e_9$	{1234568, 123468, 134, 1345, 24589, 2489, 4569, 469}
942:10	$0, 0, 0, 0, 0, \frac{6}{65}\sqrt{7}e^{12}, \frac{3}{65}\sqrt{46}e^{13}, \frac{3}{65}\sqrt{59}e^{16},$ $\frac{9}{65}\sqrt{5}e^{14} + \frac{12}{65}\sqrt{2}e^{26}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{130}, \frac{12}{65}, -\frac{3}{130}, \frac{9}{130}, -\frac{12}{65}, \frac{3}{130}, \frac{21}{130})$ $+ \frac{3}{13}\sqrt{3}e^1 \otimes e_3 + \frac{3}{65}\sqrt{14}e^5 \otimes e_7 + \frac{3}{65}\sqrt{61}e^4 \otimes e_8$	{146, 349}
942:10	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{10}e^{13}, \frac{1}{33}\sqrt{130}e^{16},$ $\frac{10}{33}e^{14} + \frac{1}{33}\sqrt{70}e^{26}$	$(-\frac{1}{33}, \frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{33}, \frac{2}{33}, -\frac{7}{33}, \frac{1}{33}, \frac{5}{33})$ $+ \frac{1}{33}\sqrt{170}e^1 \otimes e_3 + \frac{2}{33}\sqrt{35}e^4 \otimes e_8$	{1456, 146, 3459, 349}
942:10	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{406}e^{12}, \frac{2}{159}\sqrt{959}e^{13}, \frac{2}{159}\sqrt{777}e^{16},$ $\frac{2}{159}\sqrt{105}e^{14} + \frac{4}{159}\sqrt{427}e^{26}$	$(-\frac{3}{53}, \frac{2}{53}, \frac{59}{159}, \frac{4}{53}, -\frac{50}{159}, -\frac{1}{53}, \frac{50}{159}, -\frac{4}{53}, \frac{1}{53})$ $+ \frac{2}{159}\sqrt{1841}e^2 \otimes e_5 + \frac{2}{159}\sqrt{2170}e^3 \otimes e_9$	{1279, 156789, 2367, 3578}
942:10	$0, 0, 0, 0, 0, \frac{3}{287}\sqrt{2513}e^{12}, \frac{1}{287}\sqrt{19027}e^{13}, \frac{2}{287}\sqrt{20822}e^{16},$ $\frac{1}{287}\sqrt{13283}e^{14} + \frac{4}{287}\sqrt{718}e^{26}$	$(-\frac{53}{287}, \frac{34}{287}, \frac{76}{287}, \frac{68}{287}, 1, -\frac{19}{287}, \frac{23}{287}, -\frac{72}{287}, \frac{15}{287})$ $+ \frac{5}{287}\sqrt{6821}e^5 \otimes e_8$	{12378, 128, 13567, 156, 23689, 26789, 359, 579}
942:10	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{258}e^{12}, \frac{3}{155}\sqrt{546}e^{13}, \frac{6}{155}\sqrt{69}e^{16},$ $\frac{9}{155}\sqrt{70}e^{14} + \frac{6}{155}\sqrt{42}e^{26}$	$(-\frac{33}{155}, \frac{69}{310}, -\frac{6}{155}, \frac{69}{155}, \frac{153}{310}, \frac{3}{310}, \frac{39}{155}, -\frac{63}{310}, \frac{36}{155})$ $+ \frac{3}{155}\sqrt{1434}e^5 \otimes e_8 + \frac{6}{155}\sqrt{471}e^4 \otimes e_7$	{125679, 1789, 2357, 3678}
942:10	$0, 0, 0, 0, 0, \frac{24}{2849}\sqrt{1598}e^{12}, \frac{60}{2849}\sqrt{470}e^{13}, \frac{6}{2849}\sqrt{1034}e^{16},$ $\frac{6}{2849}\sqrt{33699}e^{14} + \frac{6}{2849}\sqrt{40890}e^{26}$	$(-\frac{564}{2849}, \frac{501}{2849}, \frac{219}{2849}, \frac{1002}{2849}, \frac{285}{2849}, -\frac{9}{407}, -\frac{345}{2849}, -\frac{57}{259}, \frac{438}{2849})$ $+ \frac{6}{2849}\sqrt{43898}e^3 \otimes e_8 + \frac{6}{2849}\sqrt{76610}e^2 \otimes e_7$	{24568, 2468, 3457, 347}
942:10	$0, 0, 0, 0, 0, \frac{54}{6245}\sqrt{431}e^{12}, \frac{27}{6245}\sqrt{2906}e^{13}, \frac{27}{6245}\sqrt{3826}e^{16},$ $\frac{54}{6245}\sqrt{965}e^{14} + \frac{459}{6245}\sqrt{6}e^{26}$	$(-\frac{189}{6245}, \frac{351}{6245}, -\frac{918}{6245}, \frac{702}{6245}, \frac{1242}{6245}, \frac{162}{6245}, -\frac{1107}{6245}, -\frac{27}{6245}, \frac{513}{6245})$ $+ \frac{162}{6245}\sqrt{127}e^4 \otimes e_8 + \frac{27}{6245}\sqrt{5434}e^1 \otimes e_3 + \frac{432}{6245}\sqrt{7}e^5 \otimes e_9$	{1456, 349}
942:10	$0, 0, 0, 0, 0, \frac{2}{1311}\sqrt{64195}e^{12}, \frac{2}{1311}\sqrt{61419}e^{13}, \frac{8}{1311}\sqrt{347}e^{16},$ $\frac{2}{437}\sqrt{11798}e^{14} + \frac{1}{1311}\sqrt{221386}e^{26}$	$(\frac{13}{1311}, \frac{49}{437}, -\frac{71}{437}, \frac{98}{437}, -\frac{334}{1311}, \frac{160}{1311}, -\frac{200}{1311}, \frac{173}{1311}, \frac{307}{1311})$ $+ \frac{1}{1311}\sqrt{482330}e^2 \otimes e_7 + \frac{5}{1311}\sqrt{13186}e^1 \otimes e_5$	{123489, 14679, 24568, 3457}
942:10	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{989}e^{12}, \frac{1}{89}\sqrt{301}e^{13}, \frac{1}{89}\sqrt{1290}e^{16},$ $\frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $+ \frac{1}{89}\sqrt{2795}e^4 \otimes e_7 + \frac{1}{89}\sqrt{4085}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:10	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{989}e^{12}, \frac{1}{89}\sqrt{301}e^{13}, \frac{1}{89}\sqrt{1290}e^{16},$ $\frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $- \frac{1}{89}\sqrt{2795}e^4 \otimes e_7 + \frac{1}{89}\sqrt{4085}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:10	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{42}e^{12}, \frac{1}{13}\sqrt{21}e^{13}, \frac{1}{13}\sqrt{21}e^{16},$ $\frac{1}{13}\sqrt{35}e^{14} + \frac{1}{13}\sqrt{42}e^{26}$	$(-\frac{2}{13}, \frac{2}{13}, \frac{5}{13}, \frac{4}{13}, -\frac{5}{13}, 0, \frac{3}{13}, -\frac{2}{13}, \frac{2}{13})$ $+ \frac{1}{13}\sqrt{70}e^3 \otimes e_8 + \frac{1}{13}\sqrt{91}e^2 \otimes e_5$	{124789, 134569, 2468, 3457}
942:10	$0, 0, 0, 0, 0, \frac{3}{221}\sqrt{851}e^{12}, \frac{3}{221}\sqrt{805}e^{13}, \frac{2}{221}\sqrt{3243}e^{16},$ $\frac{3}{221}\sqrt{391}e^{14} + \frac{2}{221}\sqrt{1173}e^{26}$	$(\frac{1}{13}, -\frac{4}{221}, -\frac{4}{17}, -\frac{8}{221}, \frac{99}{221}, \frac{1}{17}, -\frac{35}{221}, \frac{30}{221}, \frac{9}{221})$ $+ \frac{1}{221}\sqrt{11247}e^5 \otimes e_8 + \frac{2}{221}\sqrt{4209}e^1 \otimes e_3$	{1248, 1456, 234689, 3459}
942:10	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{3127}e^{12}, \frac{6}{149}\sqrt{177}e^{13}, \frac{4}{149}\sqrt{767}e^{16},$ $\frac{2}{149}\sqrt{2183}e^{14} + \frac{2}{149}\sqrt{177}e^{26}$	$(\frac{54}{149}, -\frac{32}{149}, -\frac{3}{149}, -\frac{64}{149}, \frac{24}{149}, \frac{22}{149}, \frac{51}{149}, \frac{76}{149}, -\frac{10}{149})$ $+ \frac{10}{149}\sqrt{295}e^1 \otimes e_4$	{2345678, 234678, 24568, 2468, 3457, 347, 4, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:10	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903e^{12}}, \frac{1}{89}\sqrt{1290e^{13}}, \frac{1}{89}\sqrt{301e^{16}},$ $\frac{1}{89}\sqrt{2193e^{14}} + \frac{1}{89}\sqrt{989e^{26}}$	$(-\frac{35}{178}, \frac{8}{89}, \frac{83}{178}, \frac{16}{89}, \frac{9}{89}, -\frac{19}{178}, \frac{24}{89}, -\frac{27}{89}, -\frac{3}{178})$ $+\frac{1}{89}\sqrt{2795e^4} \otimes e_8 + \frac{1}{89}\sqrt{4085e^3} \otimes e_9$	{134, 1345, 4569, 469}
942:10	$0, 0, 0, 0, 0, \frac{594}{4325}\sqrt{5e^{12}}, \frac{462}{4325}\sqrt{10e^{13}}, \frac{33}{4325}\sqrt{2778e^{16}},$ $\frac{33}{4325}\sqrt{1806e^{14}} + \frac{132}{4325}e^{26}$	$(\frac{231}{4325}, -\frac{429}{4325}, \frac{1122}{4325}, -\frac{858}{4325}, \frac{462}{4325}, -\frac{198}{4325}, \frac{1353}{4325}, \frac{33}{4325}, -\frac{627}{4325})$ $+\frac{33}{4325}\sqrt{178e^5} \otimes e_9 + \frac{33}{4325}\sqrt{3458e^3} \otimes e_8 + \frac{66}{4325}\sqrt{1067e^1} \otimes e_4$	{12578, 1356}
942:10	$0, 0, 0, 0, 0, \frac{22}{375}\sqrt{23e^{12}}, \frac{11}{375}\sqrt{166e^{13}}, \frac{22}{375}\sqrt{13e^{16}},$ $\frac{52}{375}\sqrt{41e^{14}} + \frac{11}{375}\sqrt{58e^{26}}$	$(-\frac{22}{125}, \frac{44}{375}, \frac{11}{125}, \frac{88}{375}, \frac{143}{375}, \frac{22}{375}, -\frac{11}{125}, -\frac{88}{375}, \frac{22}{375})$ $+\frac{11}{375}\sqrt{178e^3} \otimes e_8 + \frac{11}{375}\sqrt{286e^4} \otimes e_7 + \frac{22}{375}\sqrt{58e^5} \otimes e_9$	{1345, 2489}
942:10	$0, 0, 0, 0, 0, \frac{6}{121}\sqrt{111e^{12}}, \frac{1}{121}\sqrt{1406e^{13}}, \frac{1}{121}\sqrt{4551e^{16}},$ $\frac{1}{121}\sqrt{2553e^{14}} + \frac{3}{121}\sqrt{185e^{26}}$	$(\frac{93}{484}, -\frac{3}{242}, -\frac{203}{484}, -\frac{3}{121}, \frac{93}{242}, \frac{87}{484}, -\frac{5}{22}, \frac{45}{121}, \frac{81}{484})$ $+\frac{1}{121}\sqrt{11026e^1} \otimes e_3 + \frac{1}{121}\sqrt{4773e^5} \otimes e_7$	{12458, 1456, 2345689, 3459}
942:10	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2590e^{12}}, \frac{1}{121}\sqrt{2553e^{13}}, \frac{3}{121}\sqrt{185e^{16}},$ $\frac{1}{121}\sqrt{555e^{14}} + \frac{6}{121}\sqrt{111e^{26}}$	$(-\frac{13}{121}, \frac{29}{121}, -\frac{3}{121}, \frac{58}{121}, -\frac{45}{121}, \frac{16}{121}, -\frac{16}{121}, \frac{3}{121}, \frac{45}{121})$ $+\frac{1}{121}\sqrt{7030e^4} \otimes e_7 + \frac{1}{121}\sqrt{8769e^2} \otimes e_5$	{1279, 156789, 2367, 3578}
942:10	$0, 0, 0, 0, 0, \frac{10}{283}\sqrt{187e^{12}}, \frac{2}{283}\sqrt{2805e^{13}}, \frac{4}{283}\sqrt{935e^{16}},$ $\frac{2}{283}\sqrt{935e^{14}} + \frac{2}{283}\sqrt{2805e^{26}}$	$(\frac{66}{283}, \frac{52}{283}, \frac{3}{283}, -\frac{104}{283}, \frac{132}{283}, \frac{14}{283}, \frac{69}{283}, \frac{80}{283}, -\frac{38}{283})$ $+\frac{2}{283}\sqrt{12835e^1} \otimes e_4 + \frac{8}{283}\sqrt{510e^5} \otimes e_9$	{2345678, 24568, 3457, 45}
942:10	$0, 0, 0, 0, 0, \frac{6}{3107}\sqrt{37774e^{12}}, \frac{2}{3107}\sqrt{407838e^{13}}, \frac{6}{3107}\sqrt{48682e^{16}},$ $\frac{4}{3107}\sqrt{150591e^{14}} + \frac{108}{3107}\sqrt{101e^{26}}$	$(\frac{399}{3107}, \frac{184}{3107}, -\frac{813}{3107}, \frac{368}{3107}, -\frac{844}{3107}, \frac{583}{3107}, -\frac{414}{3107}, \frac{982}{3107}, \frac{59}{239})$ $+\frac{2}{3107}\sqrt{1057470e^1} \otimes e_3 + \frac{2}{3107}\sqrt{668418e^4} \otimes e_5$	{1248, 146, 234689, 349}
942:10	$0, 0, 0, 0, 0, \frac{21}{865}\sqrt{13e^{12}}, \frac{21}{865}\sqrt{93e^{13}}, \frac{168}{865}e^{16},$ $\frac{7}{865}\sqrt{83e^{14}} + \frac{14}{865}\sqrt{219e^{26}}$	$(-\frac{77}{865}, \frac{56}{865}, \frac{84}{865}, \frac{112}{865}, -\frac{49}{865}, -\frac{21}{865}, \frac{7}{865}, -\frac{98}{865}, \frac{7}{173})$ $+\frac{14}{865}\sqrt{241e^2} \otimes e_7 + \frac{7}{865}\sqrt{239e^5} \otimes e_8 + \frac{84}{865}\sqrt{6e^3} \otimes e_9$	{1456789, 34578}
942:10	$0, 0, 0, 0, 0, \frac{26}{625}\sqrt{6e^{12}}, \frac{52}{625}\sqrt{21e^{13}}, \frac{13}{625}\sqrt{87e^{16}},$ $\frac{13}{625}e^{14} + \frac{39}{625}\sqrt{37e^{26}}$	$(-\frac{169}{1250}, \frac{26}{625}, \frac{273}{1250}, \frac{52}{625}, \frac{221}{625}, -\frac{117}{1250}, \frac{52}{625}, -\frac{143}{625}, -\frac{13}{250})$ $+\frac{13}{625}\sqrt{337e^5} \otimes e_7 + \frac{52}{625}\sqrt{19e^2} \otimes e_8 + \frac{78}{625}\sqrt{14e^3} \otimes e_9$	{1279, 16789, 2367, 378}
942:10	$0, 0, 0, 0, 0, \frac{26}{625}\sqrt{6e^{12}}, \frac{52}{625}\sqrt{21e^{13}}, \frac{13}{625}\sqrt{87e^{16}},$ $\frac{13}{625}e^{14} + \frac{39}{625}\sqrt{37e^{26}}$	$(-\frac{169}{1250}, \frac{26}{625}, \frac{273}{1250}, \frac{52}{625}, \frac{221}{625}, -\frac{117}{1250}, \frac{52}{625}, -\frac{143}{625}, -\frac{13}{250})$ $+\frac{13}{625}\sqrt{337e^5} \otimes e_7 - \frac{52}{625}\sqrt{19e^2} \otimes e_8 + \frac{78}{625}\sqrt{14e^3} \otimes e_9$	{1279, 16789, 2367, 378}
942:10	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{70e^{12}}, \frac{1}{33}\sqrt{130e^{13}}, \frac{1}{11}\sqrt{10e^{16}},$ $\frac{10}{33}e^{14} + \frac{2}{33}\sqrt{15e^{26}}$	$(-\frac{5}{33}, \frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{33}, -\frac{2}{33}, \frac{1}{33}, -\frac{7}{33}, \frac{1}{33})$ $+\frac{1}{33}\sqrt{170e^3} \otimes e_9 - \frac{2}{33}\sqrt{35e^4} \otimes e_7$	{1234568, 123468, 134, 1345, 24589, 2489, 4569, 469}
942:10	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{70e^{12}}, \frac{1}{33}\sqrt{130e^{13}}, \frac{1}{11}\sqrt{10e^{16}},$ $\frac{10}{33}e^{14} + \frac{2}{33}\sqrt{15e^{26}}$	$(-\frac{5}{33}, \frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{33}, -\frac{2}{33}, \frac{1}{33}, -\frac{7}{33}, \frac{1}{33})$ $+\frac{1}{33}\sqrt{170e^3} \otimes e_9 + \frac{2}{33}\sqrt{35e^4} \otimes e_7$	{1234568, 123468, 134, 1345, 24589, 2489, 4569, 469}
942:10	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718e^{12}}, \frac{2}{287}\sqrt{20822e^{13}}, \frac{1}{287}\sqrt{19027e^{16}},$ $\frac{1}{287}\sqrt{13283e^{14}} + \frac{3}{287}\sqrt{2513e^{26}}$	$(-\frac{11}{574}, \frac{34}{287}, -\frac{19}{82}, \frac{68}{287}, \frac{1}{574}, \frac{57}{287}, -\frac{72}{287}, \frac{23}{287}, \frac{125}{574})$ $+\frac{5}{287}\sqrt{6821e^5} \otimes e_7$	{123568, 12678, 135, 17, 23789, 2589, 3679, 569}
942:10	$0, 0, 0, 0, 0, \frac{18}{53}e^{12}, \frac{3}{53}\sqrt{102e^{13}}, \frac{6}{53}\sqrt{3e^{16}}, \frac{18}{53}e^{14} + \frac{3}{53}\sqrt{6e^{26}}$	$(-\frac{14}{53}, \frac{12}{53}, \frac{11}{53}, \frac{24}{53}, \frac{5}{53}, -\frac{2}{53}, -\frac{3}{53}, -\frac{16}{53}, \frac{10}{53})$ $+\frac{12}{53}\sqrt{6e^4} \otimes e_7 + \frac{3}{53}\sqrt{138e^3} \otimes e_8$	{15789, 1789, 2357, 237}
942:10	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{42e^{12}}, \frac{6}{155}\sqrt{69e^{13}}, \frac{3}{155}\sqrt{546e^{16}},$ $\frac{9}{155}\sqrt{70e^{14}} + \frac{3}{155}\sqrt{258e^{26}}$	$(-\frac{147}{620}, \frac{69}{310}, \frac{21}{620}, \frac{69}{155}, \frac{153}{310}, -\frac{9}{620}, -\frac{63}{310}, -\frac{39}{155}, \frac{129}{620})$ $+\frac{3}{155}\sqrt{1434e^5} \otimes e_7 + \frac{6}{155}\sqrt{471e^4} \otimes e_8$	{13589, 1789, 3678, 568}
942:10	$0, 0, 0, 0, 0, \frac{77}{1273}\sqrt{14e^{12}}, \frac{11}{1273}\sqrt{2674e^{13}}, \frac{22}{1273}\sqrt{273e^{16}},$ $\frac{22}{1273}\sqrt{371e^{14}} + \frac{11}{1273}\sqrt{2478e^{26}}$	$(-\frac{176}{1273}, \frac{22}{1273}, \frac{517}{1273}, \frac{44}{1273}, \frac{715}{1273}, -\frac{154}{1273}, \frac{341}{1273}, -\frac{330}{1273}, -\frac{132}{1273})$ $+\frac{11}{1273}\sqrt{7910e^5} \otimes e_9 + \frac{66}{1273}\sqrt{217e^3} \otimes e_8$	{123456, 14578, 23479, 4689}
942:10	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78e^{12}}, \frac{3}{95}\sqrt{186e^{13}}, \frac{6}{95}\sqrt{21e^{16}},$ $\frac{9}{95}\sqrt{10e^{14}} + \frac{3}{95}\sqrt{102e^{26}}$	$(-\frac{12}{95}, \frac{3}{95}, \frac{21}{95}, \frac{6}{95}, \frac{36}{95}, -\frac{9}{95}, \frac{9}{95}, -\frac{21}{95}, -\frac{6}{95})$ $+\frac{3}{95}\sqrt{174e^5} \otimes e_7 + \frac{6}{95}\sqrt{21e^4} \otimes e_8 + \frac{9}{95}\sqrt{30e^3} \otimes e_9$	{1345, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:10	$0, 0, 0, 0, 0, \frac{12}{59}\sqrt{17}e^{12}, \frac{1}{59}\sqrt{51}e^{13}, \frac{1}{59}\sqrt{51}e^{16},$ $\frac{5}{59}\sqrt{51}e^{14} + \frac{12}{59}\sqrt{17}e^{26}$	$(-\frac{1}{59}, \frac{11}{59}, \frac{10}{59}, \frac{22}{59}, -\frac{40}{59}, \frac{10}{59}, \frac{9}{59}, \frac{9}{59}, \frac{21}{59})$ $+ \frac{3}{59}\sqrt{561}e^2 \otimes e_5$	{123479, 1249, 13456789, 145689, 2346, 2467, 3458, 4578}
942:10	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{2}{25}\sqrt{22}e^{16},$ $\frac{6}{25}e^{14} + \frac{2}{25}\sqrt{6}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{22}e^3 \otimes e_9 + \frac{2}{25}\sqrt{42}e^1 \otimes e_4 + \frac{6}{25}\sqrt{3}e^5 \otimes e_8$	{234678, 3457}
942:10	$0, 0, 0, 0, 0, \frac{1}{1843}\sqrt{301502}e^{12}, \frac{10}{1843}\sqrt{4529}e^{13}, \frac{23}{1843}\sqrt{1294}e^{16},$ $\frac{1}{1843}\sqrt{40114}e^{14} + \frac{5}{1843}\sqrt{6470}e^{26}$	$(-\frac{63}{1843}, \frac{77}{1843}, \frac{598}{1843}, \frac{154}{1843}, -\frac{710}{1843}, \frac{14}{1843}, \frac{535}{1843}, -\frac{49}{1843}, \frac{91}{1843})$ $+ \frac{1}{1843}\sqrt{1158130}e^1 \otimes e_5 + \frac{1}{1843}\sqrt{987322}e^3 \otimes e_8$	{12478, 1346, 245689, 34579}
942:10	$0, 0, 0, 0, 0, \frac{3}{1717}\sqrt{40970}e^{12}, \frac{3}{1717}\sqrt{50610}e^{13}, \frac{2}{1717}\sqrt{117849}e^{16},$ $\frac{2}{1717}\sqrt{213285}e^{14} + \frac{3}{1717}\sqrt{34222}e^{26}$	$(-\frac{184}{1717}, \frac{182}{1717}, -\frac{175}{1717}, \frac{364}{1717}, \frac{903}{1717}, -\frac{2}{1717}, -\frac{359}{1717}, -\frac{186}{1717}, \frac{180}{1717})$ $+ \frac{1}{1717}\sqrt{1103298}e^5 \otimes e_9 + \frac{2}{1717}\sqrt{294261}e^4 \otimes e_7$	{1234568, 1345, 2489, 469}
942:10	$0, 0, 0, 0, 0, \frac{2}{221}\sqrt{1173}e^{12}, \frac{2}{221}\sqrt{3243}e^{13}, \frac{3}{221}\sqrt{805}e^{16},$ $\frac{3}{221}\sqrt{391}e^{14} + \frac{3}{221}\sqrt{851}e^{26}$	$(-\frac{31}{442}, -\frac{4}{221}, \frac{7}{34}, -\frac{8}{221}, \frac{99}{221}, -\frac{3}{34}, \frac{30}{221}, -\frac{35}{221}, -\frac{47}{442})$ $+ \frac{1}{221}\sqrt{11247}e^5 \otimes e_7 + \frac{2}{221}\sqrt{4209}e^3 \otimes e_9$	{1234568, 1345, 24589, 4569}
942:11	$0, 0, 0, 0, 0, \frac{4}{3609}\sqrt{171739}e^{12}, \frac{2}{3609}\sqrt{144966}e^{13}, \frac{4}{3609}\sqrt{238998}e^{26},$ $\frac{2}{3609}\sqrt{47669}e^{16} + \frac{2}{3609}\sqrt{463630}e^{24}$	$(-\frac{148}{1203}, \frac{418}{3609}, \frac{535}{3609}, -\frac{296}{1203}, \frac{566}{1203}, -\frac{26}{3609}, \frac{91}{3609}, \frac{392}{3609}, -\frac{470}{3609})$ $+ \frac{14}{3609}\sqrt{25467}e^2 \otimes e_4 + \frac{2}{3609}\sqrt{904405}e^5 \otimes e_8$	{12378, 128, 2356, 2567}
942:11	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{22213}e^{12}, \frac{3}{353}\sqrt{5954}e^{13}, \frac{1}{353}\sqrt{6870}e^{26},$ $\frac{1}{353}\sqrt{91142}e^{16} + \frac{4}{353}\sqrt{3206}e^{24}$	$(\frac{77}{353}, -\frac{25}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{42}{353}, \frac{52}{353}, -\frac{75}{353}, \frac{27}{353}, \frac{129}{353})$ $+ \frac{1}{353}\sqrt{142438}e^1 \otimes e_3$	{12459, 1249, 1456, 146, 2345689, 234689, 3458, 348}
942:11	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{53}e^{12}, \frac{3}{55}\sqrt{71}e^{13}, \frac{3}{55}\sqrt{23}e^{26},$ $\frac{3}{55}\sqrt{19}e^{16} + \frac{3}{55}\sqrt{105}e^{24}$	$(\frac{9}{110}, -\frac{3}{55}, -\frac{27}{110}, \frac{9}{55}, \frac{24}{55}, \frac{3}{110}, -\frac{9}{55}, -\frac{3}{110}, \frac{6}{55})$ $+ \frac{3}{55}\sqrt{79}e^5 \otimes e_9 + \frac{6}{55}\sqrt{31}e^4 \otimes e_7$	{126789, 1578, 2379, 3567}
942:11	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{71}e^{12}, \frac{3}{55}\sqrt{53}e^{13}, \frac{3}{55}\sqrt{23}e^{26},$ $\frac{3}{55}\sqrt{105}e^{16} + \frac{3}{55}\sqrt{19}e^{24}$	$(\frac{9}{110}, -\frac{3}{55}, -\frac{27}{110}, \frac{9}{55}, \frac{24}{55}, \frac{3}{110}, -\frac{9}{55}, -\frac{3}{110}, \frac{6}{55})$ $+ \frac{3}{55}\sqrt{79}e^5 \otimes e_9 + \frac{6}{55}\sqrt{31}e^1 \otimes e_3$	{1249, 1456, 234689, 3458}
942:11	$0, 0, 0, 0, 0, \frac{8}{281}\sqrt{290}e^{12}, \frac{2}{281}\sqrt{6670}e^{13}, \frac{18}{281}\sqrt{145}e^{26},$ $\frac{2}{281}\sqrt{8555}e^{16} + \frac{2}{281}\sqrt{14065}e^{24}$	$(\frac{92}{281}, -\frac{99}{281}, \frac{1}{281}, \frac{184}{281}, \frac{47}{281}, -\frac{7}{281}, \frac{93}{281}, -\frac{106}{281}, \frac{85}{281})$ $+ \frac{6}{281}\sqrt{3770}e^4 \otimes e_8$	{235789, 23789, 2589, 289, 35678, 3678, 568, 68}
942:11	$0, 0, 0, 0, 0, \frac{48}{2789}\sqrt{58}e^{12}, \frac{12}{2789}\sqrt{7859}e^{13}, \frac{6}{2789}\sqrt{10005}e^{26},$ $\frac{6}{2789}\sqrt{9715}e^{16} + \frac{6}{2789}\sqrt{28101}e^{24}$	$(-\frac{348}{2789}, \frac{483}{2789}, \frac{309}{2789}, -\frac{696}{2789}, \frac{273}{2789}, \frac{135}{2789}, -\frac{39}{2789}, \frac{618}{2789}, -\frac{213}{2789})$ $+ \frac{12}{2789}\sqrt{10121}e^2 \otimes e_7 + \frac{24}{2789}\sqrt{2030}e^3 \otimes e_9$	{2589, 289, 35678, 3678}
942:11	$0, 0, 0, 0, 0, \frac{1}{379}\sqrt{54662}e^{12}, \frac{1}{379}\sqrt{30770}e^{13}, \frac{1}{379}\sqrt{11946}e^{26},$ $\frac{2}{379}\sqrt{12670}e^{16} + \frac{8}{379}\sqrt{543}e^{24}$	$(\frac{66}{379}, -\frac{52}{379}, -\frac{115}{379}, \frac{132}{379}, \frac{143}{379}, \frac{14}{379}, -\frac{49}{379}, -\frac{38}{379}, \frac{80}{379})$ $+ \frac{1}{379}\sqrt{38734}e^5 \otimes e_8 + \frac{2}{379}\sqrt{21358}e^1 \otimes e_3$	{12489, 1468, 234569, 345}
942:11	$0, 0, 0, 0, 0, \frac{1}{1091}\sqrt{400214}e^{12}, \frac{2}{1091}\sqrt{103411}e^{13}, \frac{6}{1091}\sqrt{4029}e^{26},$ $\frac{1}{1091}\sqrt{351866}e^{16} + \frac{5}{1091}\sqrt{51034}e^{24}$	$(\frac{308}{1091}, -\frac{90}{1091}, \frac{28}{1091}, \frac{616}{1091}, -\frac{727}{1091}, \frac{218}{1091}, \frac{336}{1091}, \frac{128}{1091}, \frac{526}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_5$	{1235689, 1256789, 1358, 1578, 23579, 259, 3567, 56}
942:11	$0, 0, 0, 0, 0, \frac{3}{145}\sqrt{14}e^{12}, \frac{6}{145}\sqrt{65}e^{13}, \frac{12}{145}\sqrt{5}e^{26},$ $\frac{18}{145}\sqrt{15}e^{16} + \frac{3}{145}\sqrt{10}e^{24}$	$(\frac{3}{29}, -\frac{3}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{12}{29}, 0, -\frac{3}{29}, -\frac{3}{29}, \frac{3}{29})$ $+ \frac{18}{145}\sqrt{5}e^4 \otimes e_8 + \frac{21}{145}\sqrt{10}e^5 \otimes e_9 + \frac{3}{145}\sqrt{670}e^1 \otimes e_3$	{1249, 1456}
942:11	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{66}e^{12}, \frac{4}{149}\sqrt{231}e^{13}, \frac{22}{149}\sqrt{3}e^{26},$ $\frac{2}{149}\sqrt{33}e^{16} + \frac{6}{149}\sqrt{165}e^{24}$	$(-\frac{14}{149}, \frac{21}{149}, \frac{59}{149}, -\frac{28}{149}, -\frac{45}{149}, \frac{7}{149}, \frac{45}{149}, \frac{28}{149}, -\frac{7}{149})$ $+ \frac{2}{149}\sqrt{2046}e^2 \otimes e_5 + \frac{2}{149}\sqrt{2310}e^3 \otimes e_9$	{12789, 13568, 269, 357}
942:11	$0, 0, 0, 0, 0, \frac{2}{1579}\sqrt{270130}e^{12}, \frac{6}{1579}\sqrt{17706}e^{13}, \frac{4}{1579}\sqrt{9534}e^{26},$ $\frac{2}{1579}\sqrt{282842}e^{16} + \frac{4}{1579}\sqrt{23381}e^{24}$	$(\frac{361}{1579}, -\frac{140}{1579}, \frac{547}{1579}, \frac{722}{1579}, -\frac{186}{1579}, \frac{221}{1579}, -\frac{186}{1579}, \frac{81}{1579}, \frac{582}{1579})$ $+ \frac{2}{1579}\sqrt{482602}e^1 \otimes e_3 + \frac{6}{1579}\sqrt{17706}e^4 \otimes e_5$	{1249, 146, 234689, 348}
942:11	$0, 0, 0, 0, 0, \frac{2}{295}\sqrt{51}e^{12}, \frac{3}{295}\sqrt{34}e^{13}, \frac{3}{295}\sqrt{10}e^{26},$ $\frac{4}{295}\sqrt{5}e^{16} + \frac{3}{295}\sqrt{21}e^{24}$	$(\frac{4}{295}, -\frac{6}{295}, \frac{3}{295}, \frac{8}{295}, -\frac{7}{295}, -\frac{2}{295}, \frac{7}{295}, -\frac{8}{295}, \frac{2}{295})$ $+ \frac{1}{295}\sqrt{282}e^3 \otimes e_9 + \frac{1}{295}\sqrt{322}e^4 \otimes e_7 + \frac{2}{295}\sqrt{11}e^5 \otimes e_8$	{1256789, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:11	$0, 0, 0, 0, 0, \frac{8}{3071}\sqrt{570}e^{12}, \frac{4}{3071}\sqrt{107274}e^{13}, \frac{76}{3071}\sqrt{186}e^{26},$ $\frac{8}{3071}\sqrt{21831}e^{16} + \frac{8}{3071}\sqrt{30666}e^{24}$	$(\frac{113}{3071}, \frac{392}{3071}, -\frac{633}{3071}, \frac{226}{3071}, -\frac{686}{3071}, \frac{505}{3071}, -\frac{520}{3071}, \frac{897}{3071}, \frac{618}{3071})$ $+ \frac{4}{3071}\sqrt{201666}e^2 \otimes e_7 + \frac{8}{3071}\sqrt{28329}e^4 \otimes e_5$	{12348, 146789, 246, 3479}
942:11	$0, 0, 0, 0, 0, \frac{16}{583}\sqrt{167}e^{12}, \frac{4}{583}\sqrt{9519}e^{13}, \frac{2}{583}\sqrt{32565}e^{26},$ $\frac{2}{583}\sqrt{27555}e^{16} + \frac{2}{583}\sqrt{27221}e^{24}$	$(-\frac{36}{583}, \frac{161}{583}, -\frac{137}{583}, -\frac{72}{583}, \frac{91}{583}, \frac{125}{583}, -\frac{173}{583}, \frac{26}{53}, \frac{89}{583})$ $+ \frac{4}{583}\sqrt{20541}e^2 \otimes e_7$	{123458, 12348, 1456789, 146789, 2456, 246, 34579, 3479}
942:11	$0, 0, 0, 0, 0, \frac{2}{559}\sqrt{25878}e^{12}, \frac{2}{559}\sqrt{45854}e^{13}, \frac{2}{559}\sqrt{15663}e^{26},$ $\frac{2}{559}\sqrt{15209}e^{16} + \frac{30}{559}\sqrt{227}e^{24}$	$(-\frac{70}{559}, \frac{1}{13}, \frac{357}{559}, \frac{140}{559}, \frac{85}{559}, -\frac{27}{559}, \frac{287}{559}, \frac{16}{559}, -\frac{97}{559})$ $+ \frac{2}{559}\sqrt{107598}e^3 \otimes e_9$	{1234568, 123468, 145789, 14789, 23457, 2347, 4569, 469}
942:11	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{1270}e^{12}, \frac{1}{229}\sqrt{2410}e^{13}, \frac{9}{229}\sqrt{30}e^{26},$ $\frac{1}{229}\sqrt{2810}e^{16} + \frac{2}{229}\sqrt{805}e^{24}$	$(-\frac{5}{229}, \frac{15}{229}, -\frac{30}{229}, -\frac{10}{229}, \frac{50}{229}, \frac{10}{229}, -\frac{35}{229}, \frac{25}{229}, \frac{5}{229})$ $+ \frac{1}{229}\sqrt{4570}e^1 \otimes e_3 + \frac{2}{229}\sqrt{1095}e^2 \otimes e_4 + \frac{4}{229}\sqrt{115}e^5 \otimes e_8$	{1468, 345}
942:11	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{2}{139}\sqrt{966}e^{13}, \frac{2}{139}\sqrt{658}e^{26},$ $\frac{6}{139}\sqrt{42}e^{16} + \frac{18}{139}\sqrt{14}e^{24}$	$(-\frac{12}{139}, \frac{26}{139}, -\frac{18}{139}, -\frac{24}{139}, \frac{58}{139}, \frac{14}{139}, -\frac{30}{139}, \frac{40}{139}, \frac{2}{139})$ $+ \frac{2}{139}\sqrt{1162}e^5 \otimes e_9 + \frac{36}{139}\sqrt{7}e^2 \otimes e_7$	{123458, 146789, 2456, 3479}
942:11	$0, 0, 0, 0, 0, \frac{4}{1733}\sqrt{1311}e^{12}, \frac{1}{1733}\sqrt{31882}e^{13}, \frac{1}{1733}\sqrt{7410}e^{26},$ $\frac{4}{1733}\sqrt{551}e^{16} + \frac{4}{1733}\sqrt{2147}e^{24}$	$(\frac{32}{1733}, -\frac{70}{1733}, \frac{13}{1733}, \frac{64}{1733}, \frac{87}{1733}, -\frac{38}{1733}, \frac{45}{1733}, -\frac{108}{1733}, -\frac{6}{1733})$ $+ \frac{1}{1733}\sqrt{33478}e^4 \otimes e_7 + \frac{3}{1733}\sqrt{3230}e^3 \otimes e_9$	{1256789, 126789, 3567, 367}
942:11	$0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{203910}e^{12}, \frac{1}{1145}\sqrt{196142}e^{13}, \frac{2}{1145}\sqrt{2913}e^{26},$ $\frac{2}{1145}\sqrt{204881}e^{16} + \frac{12}{1145}\sqrt{2913}e^{24}$	$(\frac{202}{1145}, -\frac{2}{229}, \frac{87}{1145}, \frac{404}{1145}, -\frac{769}{1145}, \frac{192}{1145}, \frac{289}{1145}, \frac{182}{1145}, \frac{394}{1145})$ $+ \frac{1}{1145}\sqrt{1858494}e^1 \otimes e_5$	{12349, 12479, 1346, 1467, 23456789, 245689, 34578, 458}
942:11	$0, 0, 0, 0, 0, \frac{3}{65}\sqrt{59}e^{12}, \frac{12}{65}\sqrt{2}e^{13}, \frac{3}{65}\sqrt{13}e^{26},$ $\frac{9}{65}\sqrt{5}e^{16} + \frac{3}{65}\sqrt{31}e^{24}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{130}, -\frac{3}{65}, \frac{12}{65}, \frac{9}{130}, -\frac{12}{65}, \frac{21}{130}, \frac{3}{65})$ $+ \frac{12}{65}e^5 \otimes e_9 + \frac{3}{65}\sqrt{61}e^1 \otimes e_3 + \frac{9}{65}\sqrt{5}e^2 \otimes e_4$	{14568, 345}
942:11	$0, 0, 0, 0, 0, \frac{76}{803}\sqrt{5}e^{12}, \frac{19}{803}\sqrt{582}e^{13}, \frac{38}{803}\sqrt{15}e^{26},$ $\frac{38}{803}\sqrt{15}e^{16} + \frac{38}{803}\sqrt{102}e^{24}$	$(\frac{14}{73}, -\frac{50}{803}, -\frac{207}{803}, \frac{28}{73}, -\frac{207}{803}, \frac{104}{803}, -\frac{53}{803}, \frac{54}{803}, \frac{258}{803})$ $+ \frac{19}{803}\sqrt{582}e^1 \otimes e_5 + \frac{38}{803}\sqrt{214}e^4 \otimes e_7$	{126789, 178, 23579, 3567}
942:11	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{65}e^{12}, \frac{3}{67}\sqrt{11}e^{13}, \frac{3}{67}\sqrt{7}e^{26},$ $\frac{9}{67}\sqrt{7}e^{16} + \frac{3}{67}\sqrt{11}e^{24}$	$(\frac{3}{134}, \frac{3}{67}, -\frac{33}{134}, \frac{3}{67}, \frac{24}{67}, \frac{9}{134}, -\frac{15}{67}, \frac{15}{134}, \frac{6}{67})$ $+ \frac{18}{67}\sqrt{2}e^2 \otimes e_7 + \frac{30}{67}e^1 \otimes e_3 + \frac{3}{67}\sqrt{73}e^5 \otimes e_9$	{1289, 2369}
942:11	$0, 0, 0, 0, 0, \frac{4}{3361}\sqrt{2105}e^{12}, \frac{2}{3361}\sqrt{591926}e^{13}, \frac{2}{3361}\sqrt{328801}e^{26},$ $\frac{4}{3361}\sqrt{369217}e^{16} + \frac{2}{3361}\sqrt{324591}e^{24}$	$(-\frac{222}{3361}, \frac{665}{3361}, \frac{45}{3361}, -\frac{444}{3361}, -\frac{797}{3361}, \frac{443}{3361}, -\frac{177}{3361}, \frac{1108}{3361}, \frac{221}{3361})$ $+ \frac{2}{3361}\sqrt{804110}e^2 \otimes e_7 + \frac{4}{3361}\sqrt{118301}e^3 \otimes e_5$	{12348, 1456789, 2456, 3479}
942:11	$0, 0, 0, 0, 0, \frac{2}{231}\sqrt{30}e^{12}, \frac{2}{231}\sqrt{6}e^{13}, \frac{2}{231}\sqrt{82}e^{26},$ $\frac{2}{231}\sqrt{618}e^{16} + \frac{2}{231}\sqrt{894}e^{24}$	$(\frac{4}{77}, -\frac{2}{77}, -\frac{2}{11}, \frac{8}{77}, \frac{2}{11}, \frac{2}{77}, -\frac{10}{77}, \frac{0}{77}, \frac{6}{77})$ $+ \frac{16}{231}\sqrt{15}e^4 \otimes e_8 + \frac{2}{231}\sqrt{282}e^5 \otimes e_9 + \frac{4}{231}\sqrt{327}e^2 \otimes e_7$	{289, 35678}
942:11	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{858}e^{12}, \frac{5}{91}\sqrt{78}e^{13}, \frac{6}{91}\sqrt{39}e^{26},$ $\frac{1}{91}\sqrt{390}e^{16} + \frac{4}{91}\sqrt{39}e^{24}$	$(\frac{9}{91}, -\frac{11}{91}, \frac{2}{7}, \frac{18}{91}, -\frac{30}{91}, -\frac{2}{91}, \frac{5}{13}, -\frac{1}{7}, \frac{1}{13})$ $+ \frac{1}{91}\sqrt{3198}e^3 \otimes e_8 + \frac{4}{91}\sqrt{195}e^1 \otimes e_5$	{124789, 14678, 2345679, 3457}
942:11	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{130}e^{12}, \frac{1}{11}\sqrt{13}e^{13}, \frac{1}{11}\sqrt{39}e^{26},$ $\frac{1}{22}\sqrt{26}e^{16} + \frac{1}{22}\sqrt{65}e^{24}$	$(-\frac{7}{44}, \frac{3}{11}, \frac{4}{11}, -\frac{7}{22}, -\frac{5}{22}, \frac{5}{44}, \frac{9}{44}, \frac{17}{44}, -\frac{1}{22})$ $+ \frac{1}{11}\sqrt{78}e^2 \otimes e_4 + \frac{1}{22}\sqrt{195}e^3 \otimes e_5$	{1238, 12578, 2367, 256}
942:11	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{4551}e^{13}, \frac{1}{121}\sqrt{3145}e^{26},$ $\frac{1}{121}\sqrt{555}e^{16} + \frac{1}{121}\sqrt{2553}e^{24}$	$(-\frac{3}{242}, -\frac{13}{121}, \frac{93}{242}, -\frac{3}{121}, \frac{58}{121}, -\frac{29}{242}, \frac{45}{121}, -\frac{5}{22}, -\frac{16}{121})$ $+ \frac{5}{121}\sqrt{259}e^5 \otimes e_9 + \frac{6}{121}\sqrt{259}e^3 \otimes e_8$	{12369, 135, 289, 568}
942:11	$0, 0, 0, 0, 0, \frac{31}{2725}\sqrt{662}e^{12}, \frac{31}{2725}\sqrt{1842}e^{13}, \frac{62}{2725}\sqrt{10}e^{26},$ $\frac{62}{2725}\sqrt{6}e^{16} + \frac{62}{2725}\sqrt{307}e^{24}$	$(-\frac{341}{2725}, \frac{279}{2725}, \frac{558}{2725}, -\frac{682}{2725}, \frac{1178}{2725}, -\frac{62}{2725}, \frac{217}{2725}, \frac{217}{2725}, -\frac{403}{2725})$ $+ \frac{186}{2725}\sqrt{69}e^3 \otimes e_9 + \frac{31}{2725}\sqrt{1882}e^5 \otimes e_7 + \frac{31}{2725}\sqrt{610}e^2 \otimes e_4$	{126789, 259}
942:11	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{130}e^{12}, \frac{1}{11}\sqrt{13}e^{13}, \frac{1}{11}\sqrt{39}e^{26},$ $\frac{1}{22}\sqrt{26}e^{16} + \frac{1}{22}\sqrt{65}e^{24}$	$(-\frac{7}{44}, \frac{3}{11}, \frac{1}{44}, -\frac{7}{22}, \frac{5}{11}, \frac{5}{44}, -\frac{3}{22}, \frac{17}{44}, -\frac{1}{22})$ $+ \frac{1}{11}\sqrt{78}e^2 \otimes e_4 + \frac{1}{22}\sqrt{195}e^5 \otimes e_7$	{12358, 1278, 2367, 256}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:11	$0, 0, 0, 0, 0, \frac{2}{605}\sqrt{22873e^{12}}, \frac{6}{605}\sqrt{178e^{13}}, \frac{2}{605}\sqrt{10591e^{26}},$ $\frac{2}{121}\sqrt{445e^{16}} + \frac{4}{605}\sqrt{3293e^{24}}$	$(-\frac{36}{605}, \frac{106}{605}, \frac{15}{121}, -\frac{72}{605}, -\frac{214}{605}, \frac{14}{121}, \frac{39}{605}, \frac{16}{55}, \frac{34}{605})$ $+\frac{2}{605}\sqrt{24119e^1} \otimes e_5 + \frac{2}{605}\sqrt{24653e^2} \otimes e_4$	{134678, 1468, 345, 457}
942:11	$0, 0, 0, 0, 0, \frac{10}{391}\sqrt{681e^{12}}, \frac{1}{391}\sqrt{26786e^{13}}, \frac{3}{391}\sqrt{454e^{26}},$ $\frac{3}{391}\sqrt{7718e^{16}} + \frac{2}{391}\sqrt{9534e^{24}}$	$(\frac{63}{391}, -\frac{15}{391}, -\frac{164}{391}, \frac{126}{391}, \frac{126}{391}, \frac{48}{391}, -\frac{101}{391}, \frac{33}{391}, \frac{111}{391})$ $+\frac{1}{391}\sqrt{120310e^1} \otimes e_3 + \frac{2}{391}\sqrt{9534e^5} \otimes e_7$	{12459, 1456, 2345689, 3458}
942:11	$0, 0, 0, 0, 0, \frac{2}{155}\sqrt{2506e^{12}}, \frac{1}{310}\sqrt{22017e^{13}}, \frac{1}{310}\sqrt{5370e^{26}},$ $\frac{1}{310}\sqrt{38306e^{16}} + \frac{1}{310}\sqrt{14678e^{24}}$	$(\frac{38}{155}, -\frac{103}{620}, -\frac{103}{310}, \frac{76}{155}, \frac{69}{620}, \frac{49}{620}, \frac{27}{310}, -\frac{27}{310}, \frac{201}{620})$ $+\frac{1}{310}\sqrt{71242e^1} \otimes e_3 + \frac{3}{310}\sqrt{3043e^4} \otimes e_8$	{234569, 23469, 34, 345}
942:11	$0, 0, 0, 0, 0, \frac{174}{1765}\sqrt{11e^{12}}, \frac{87}{1765}\sqrt{22e^{13}}, \frac{29}{1765}\sqrt{330e^{26}},$ $\frac{29}{1765}\sqrt{286e^{16}} + \frac{58}{1765}\sqrt{33e^{24}}$	$(\frac{319}{1765}, -\frac{261}{1765}, -\frac{522}{1765}, \frac{638}{1765}, \frac{638}{1765}, \frac{58}{1765}, -\frac{203}{1765}, -\frac{203}{1765}, \frac{377}{1765})$ $+\frac{116}{1765}\sqrt{67e^4} \otimes e_8 + \frac{29}{1765}\sqrt{1182e^1} \otimes e_3 + \frac{58}{1765}\sqrt{235e^5} \otimes e_7$	{12789, 1678}
942:11	$0, 0, 0, 0, 0, \frac{4}{3625}\sqrt{434e^{12}}, \frac{4}{3625}\sqrt{59458e^{13}}, \frac{2}{3625}\sqrt{252805e^{26}},$ $\frac{4}{3625}\sqrt{225463e^{16}} + \frac{14}{3625}\sqrt{5177e^{24}}$	$(\frac{264}{3625}, -\frac{17}{725}, -\frac{27}{125}, \frac{528}{3625}, \frac{313}{3625}, \frac{179}{3625}, -\frac{519}{3625}, \frac{94}{3625}, \frac{443}{3625})$ $+\frac{4}{3625}\sqrt{104594e^2} \otimes e_7 + \frac{4}{3625}\sqrt{75082e^4} \otimes e_8$	{2589, 289, 35678, 3678}
942:11	$0, 0, 0, 0, 0, \frac{5}{46}\sqrt{6e^{12}}, \frac{5}{46}\sqrt{6e^{13}}, \frac{5}{46}\sqrt{26e^{26}},$ $\frac{13}{46}\sqrt{6e^{16}} + \frac{15}{46}\sqrt{6e^{24}}$	$(-\frac{3}{46}, \frac{1}{23}, \frac{9}{46}, -\frac{3}{23}, 1, -\frac{1}{46}, \frac{3}{23}, \frac{1}{46}, -\frac{2}{23})$ $+\frac{5}{46}\sqrt{154e^5} \otimes e_9$	{12345678, 124568, 134789, 1489, 2345, 2457, 3469, 4679}
942:11	$0, 0, 0, 0, 0, \frac{48}{3001}\sqrt{553e^{12}}, \frac{12}{3001}\sqrt{12719e^{13}}, \frac{2}{3001}\sqrt{82397e^{26}},$ $\frac{2}{3001}\sqrt{70231e^{16}} + \frac{158}{3001}\sqrt{105e^{24}}$	$(\frac{160}{3001}, -\frac{473}{3001}, \frac{953}{3001}, \frac{320}{3001}, \frac{285}{3001}, -\frac{313}{3001}, \frac{1113}{3001}, -\frac{786}{3001}, -\frac{153}{3001})$ $+\frac{4}{3001}\sqrt{168665e^4} \otimes e_8 + \frac{4}{3001}\sqrt{206822e^3} \otimes e_9$	{2589, 289, 35678, 3678}
942:11	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{10e^{12}}, \frac{1}{15}\sqrt{35e^{13}}, \frac{1}{15}\sqrt{55e^{26}},$ $\frac{1}{15}\sqrt{30e^{16}} + \frac{1}{15}\sqrt{15e^{24}}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+\frac{1}{15}\sqrt{65e^2} \otimes e_5 + \frac{1}{15}\sqrt{70e^3} \otimes e_8$	{12478, 1456789, 23467, 34579}
942:11	$0, 0, 0, 0, 0, \frac{5}{223}\sqrt{374e^{12}}, \frac{1}{223}\sqrt{37774e^{13}}, \frac{6}{223}\sqrt{935e^{26}},$ $\frac{1}{223}\sqrt{170e^{16}} + \frac{4}{223}\sqrt{187e^{24}}$	$(\frac{13}{223}, -\frac{39}{223}, \frac{122}{223}, \frac{26}{223}, \frac{34}{223}, \frac{26}{223}, \frac{135}{223}, -\frac{65}{223}, -\frac{13}{223})$ $+\frac{3}{223}\sqrt{7854e^3} \otimes e_8$	{123569, 12369, 13, 135, 2589, 289, 568, 68}
942:11	$0, 0, 0, 0, 0, \frac{4}{1279}\sqrt{13871e^{12}}, \frac{4}{1279}\sqrt{16005e^{13}}, \frac{4}{1279}\sqrt{16005e^{26}},$ $\frac{12}{1279}\sqrt{1067e^{16}} + \frac{4}{1279}\sqrt{10670e^{24}}$	$(-\frac{245}{1279}, \frac{286}{1279}, \frac{572}{1279}, -\frac{490}{1279}, \frac{162}{1279}, \frac{41}{1279}, \frac{327}{1279}, \frac{327}{1279}, -\frac{204}{1279})$ $+\frac{20}{1279}\sqrt{2231e^3} \otimes e_9 + \frac{4}{1279}\sqrt{52574e^2} \otimes e_4$	{125789, 12789, 2569, 269}
942:11	$0, 0, 0, 0, 0, \frac{48}{3599}\sqrt{3e^{12}}, \frac{120}{3599}\sqrt{21e^{13}}, \frac{8}{3599}\sqrt{4071e^{26}},$ $\frac{24}{3599}\sqrt{3270e^{16}} + \frac{24}{3599}\sqrt{206e^{24}}$	$(-\frac{169}{3599}, \frac{146}{3599}, \frac{219}{3599}, -\frac{338}{3599}, \frac{280}{3599}, -\frac{23}{3599}, \frac{50}{3599}, \frac{123}{3599}, -\frac{192}{3599})$ $+\frac{152}{3599}\sqrt{15e^2} \otimes e_7 + \frac{8}{3599}\sqrt{4542e^3} \otimes e_8$	{123569, 12369, 2589, 289}
942:11	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{23870e^{12}}, \frac{1}{139}\sqrt{20119e^{13}}, \frac{3}{139}\sqrt{341e^{26}},$ $\frac{1}{278}\sqrt{27962e^{16}} + \frac{1}{278}\sqrt{24211e^{24}}$	$(\frac{13}{556}, \frac{15}{139}, -\frac{1}{4}, \frac{13}{278}, 1, \frac{73}{556}, -\frac{63}{278}, \frac{133}{556}, \frac{43}{278})$ $+\frac{3}{278}\sqrt{17391e^5} \otimes e_7$	{123569, 12679, 135, 17, 23789, 2589, 3678, 568}
942:11	$0, 0, 0, 0, 0, \frac{1}{379}\sqrt{30770e^{12}}, \frac{1}{379}\sqrt{54662e^{13}}, \frac{1}{379}\sqrt{11946e^{26}},$ $\frac{8}{379}\sqrt{543e^{16}} + \frac{2}{379}\sqrt{12670e^{24}}$	$(\frac{66}{379}, -\frac{52}{379}, -\frac{115}{379}, \frac{132}{379}, \frac{143}{379}, \frac{14}{379}, -\frac{49}{379}, -\frac{38}{379}, \frac{80}{379})$ $+\frac{1}{379}\sqrt{38734e^5} \otimes e_8 + \frac{2}{379}\sqrt{21358e^4} \otimes e_7$	{125679, 157, 23789, 3678}
942:11	$0, 0, 0, 0, 0, \frac{62}{2725}\sqrt{305e^{12}}, \frac{62}{2725}\sqrt{10e^{13}}, \frac{31}{2725}\sqrt{1842e^{26}},$ $\frac{82}{2725}\sqrt{6e^{16}} + \frac{31}{2725}\sqrt{654e^{24}}$	$(-\frac{341}{2725}, \frac{279}{2725}, \frac{558}{2725}, -\frac{682}{2725}, \frac{1178}{2725}, -\frac{62}{2725}, \frac{217}{2725}, \frac{217}{2725}, -\frac{403}{2725})$ $+\frac{31}{2725}\sqrt{1882e^5} \otimes e_8 + \frac{31}{2725}\sqrt{602e^3} \otimes e_9 + \frac{62}{2725}\sqrt{623e^2} \otimes e_4$	{12378, 2356}
942:11	$0, 0, 0, 0, 0, \frac{17}{1405}\sqrt{106e^{12}}, \frac{17}{1405}\sqrt{790e^{13}}, \frac{102}{281}e^{26},$ $\frac{17}{1405}\sqrt{458e^{16}} + \frac{34}{1405}\sqrt{29e^{24}}$	$(-\frac{119}{1405}, \frac{51}{1405}, \frac{272}{1405}, -\frac{238}{1405}, \frac{442}{1405}, -\frac{68}{1405}, \frac{153}{1405}, -\frac{17}{1405}, -\frac{187}{1405})$ $+\frac{102}{1405}\sqrt{19e^5} \otimes e_7 + \frac{102}{1405}\sqrt{22e^2} \otimes e_4 + \frac{153}{1405}\sqrt{14e^3} \otimes e_8$	{1278, 2367}
942:11	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{23870e^{12}}, \frac{1}{139}\sqrt{20119e^{13}}, \frac{3}{139}\sqrt{341e^{26}},$ $\frac{1}{278}\sqrt{27962e^{16}} + \frac{1}{278}\sqrt{24211e^{24}}$	$(\frac{13}{556}, \frac{15}{139}, \frac{80}{139}, \frac{13}{278}, -\frac{181}{278}, \frac{73}{556}, \frac{333}{556}, \frac{133}{556}, \frac{43}{278})$ $+\frac{3}{278}\sqrt{17391e^3} \otimes e_5$	{12369, 125679, 13, 157, 23789, 2589, 3678, 568}
942:11	$0, 0, 0, 0, 0, \frac{4}{307}\sqrt{274e^{12}}, \frac{4}{921}\sqrt{2055e^{13}}, \frac{2}{921}\sqrt{38497e^{26}},$ $\frac{2}{921}\sqrt{22879e^{16}} + \frac{14}{921}\sqrt{685e^{24}}$	$(\frac{40}{307}, -\frac{77}{921}, \frac{25}{921}, \frac{80}{307}, -\frac{117}{307}, \frac{43}{921}, \frac{145}{921}, -\frac{34}{921}, \frac{163}{921})$ $+\frac{40}{921}\sqrt{137e^4} \otimes e_8 + \frac{4}{921}\sqrt{14933e^2} \otimes e_5$	{23467, 246, 34579, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:11	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{6305}e^{12}, \frac{2}{293}\sqrt{3007}e^{13}, \frac{2}{293}\sqrt{1455}e^{26},$ $\frac{1}{293}\sqrt{16102}e^{16} + \frac{1}{293}\sqrt{6790}e^{24}$	$(\frac{31}{293}, \frac{13}{293}, -\frac{66}{293}, \frac{62}{293}, -\frac{84}{293}, \frac{44}{293}, -\frac{35}{293}, \frac{57}{293}, \frac{75}{293})$ $+ \frac{1}{293}\sqrt{21534}e^2 \otimes e_5 + \frac{1}{293}\sqrt{30070}e^1 \otimes e_3$	{12489, 14568, 23469, 345}
942:11	$0, 0, 0, 0, 0, \frac{5}{293}\sqrt{194}e^{12}, \frac{1}{293}\sqrt{18042}e^{13}, \frac{2}{293}\sqrt{1455}e^{26},$ $\frac{12}{293}\sqrt{97}e^{16} + \frac{4}{293}\sqrt{1455}e^{24}$	$(\frac{31}{293}, \frac{13}{293}, -\frac{66}{293}, \frac{62}{293}, -\frac{84}{293}, \frac{44}{293}, -\frac{35}{293}, \frac{57}{293}, \frac{75}{293})$ $+ \frac{1}{293}\sqrt{21534}e^2 \otimes e_5 + \frac{1}{293}\sqrt{30070}e^4 \otimes e_7$	{12679, 157, 23789, 35678}
942:11	$0, 0, 0, 0, 0, \frac{12}{745}\sqrt{386}e^{12}, \frac{2}{745}\sqrt{8106}e^{13}, \frac{14}{745}\sqrt{193}e^{26},$ $\frac{745}{745}\sqrt{4053}e^{16} + \frac{2}{745}\sqrt{48057}e^{24}$	$(\frac{84}{745}, -\frac{151}{745}, \frac{33}{745}, \frac{168}{745}, \frac{403}{745}, -\frac{67}{745}, \frac{117}{745}, -\frac{218}{745}, \frac{17}{745})$ $+ \frac{4}{745}\sqrt{15826}e^5 \otimes e_9 + \frac{6}{745}\sqrt{7334}e^4 \otimes e_8$	{123456, 124567, 1349, 1479}
942:11	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{2}{25}\sqrt{37}e^{26}, \frac{6}{25}e^{16} + \frac{6}{25}e^{24}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{9}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{42}e^2 \otimes e_4 + \frac{2}{25}\sqrt{42}e^3 \otimes e_8 + \frac{2}{25}\sqrt{7}e^5 \otimes e_9$	{12578, 23567}
942:11	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{37774}e^{12}, \frac{5}{223}\sqrt{374}e^{13}, \frac{6}{223}\sqrt{935}e^{26},$ $\frac{4}{223}\sqrt{187}e^{16} + \frac{11}{223}\sqrt{170}e^{24}$	$(-\frac{50}{223}, \frac{87}{223}, \frac{59}{223}, -\frac{100}{223}, \frac{34}{223}, \frac{37}{223}, \frac{9}{223}, \frac{124}{223}, -\frac{13}{223})$ $+ \frac{3}{223}\sqrt{7854}e^2 \otimes e_4$	{1345678, 134678, 14568, 1468, 34, 345, 457, 47}
942:11	$0, 0, 0, 0, 0, \frac{22}{805}\sqrt{241}e^{12}, \frac{11}{805}\sqrt{546}e^{13}, \frac{11}{805}\sqrt{266}e^{26},$ $\frac{33}{805}\sqrt{70}e^{16} + \frac{22}{805}\sqrt{146}e^{24}$	$(-\frac{11}{805}, \frac{99}{805}, -\frac{132}{805}, -\frac{22}{805}, \frac{22}{805}, \frac{88}{805}, -\frac{143}{805}, \frac{187}{805}, \frac{11}{805})$ $+ \frac{22}{805}\sqrt{38}e^5 \otimes e_7 + \frac{33}{805}\sqrt{102}e^1 \otimes e_3 + \frac{44}{805}\sqrt{46}e^2 \otimes e_4$	{1468, 34}
942:11	$0, 0, 0, 0, 0, \frac{8}{1083}\sqrt{2910}e^{12}, \frac{2}{1083}\sqrt{91374}e^{13}, \frac{2}{361}\sqrt{6305}e^{26},$ $\frac{10}{361}\sqrt{291}e^{16} + \frac{10}{1083}\sqrt{3201}e^{24}$	$(\frac{60}{361}, -\frac{67}{361}, -\frac{205}{1083}, \frac{120}{361}, \frac{557}{1083}, -\frac{7}{361}, -\frac{25}{1083}, -\frac{74}{361}, \frac{53}{361})$ $+ \frac{16}{1083}\sqrt{2037}e^5 \otimes e_7 + \frac{2}{1083}\sqrt{153066}e^4 \otimes e_8$	{23789, 2589, 3678, 568}
942:11	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{11}e^{12}, \frac{3}{67}\sqrt{65}e^{13}, \frac{3}{67}\sqrt{7}e^{26},$ $\frac{3}{67}\sqrt{11}e^{16} + \frac{9}{67}\sqrt{7}e^{24}$	$(\frac{15}{134}, -\frac{9}{67}, -\frac{21}{134}, \frac{15}{67}, \frac{24}{67}, -\frac{3}{134}, -\frac{3}{67}, -\frac{21}{134}, \frac{6}{67})$ $+ \frac{18}{67}\sqrt{2}e^1 \otimes e_8 + \frac{30}{67}e^4 \otimes e_7 + \frac{3}{67}\sqrt{73}e^5 \otimes e_9$	{123456, 1349, 2458, 4689}
942:11	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{11}e^{12}, \frac{3}{67}\sqrt{65}e^{13}, \frac{3}{67}\sqrt{7}e^{26},$ $\frac{3}{67}\sqrt{11}e^{16} + \frac{9}{67}\sqrt{7}e^{24}$	$(\frac{15}{134}, -\frac{9}{67}, -\frac{21}{134}, \frac{15}{67}, \frac{24}{67}, -\frac{3}{134}, -\frac{3}{67}, -\frac{21}{134}, \frac{6}{67})$ $- \frac{18}{67}\sqrt{2}e^1 \otimes e_8 + \frac{30}{67}e^4 \otimes e_7 + \frac{3}{67}\sqrt{73}e^5 \otimes e_9$	{123456, 1349, 2458, 4689}
942:11	$0, 0, 0, 0, 0, \frac{4}{283}\sqrt{935}e^{12}, \frac{2}{283}\sqrt{2805}e^{13}, \frac{2}{283}\sqrt{2805}e^{26},$ $\frac{2}{283}\sqrt{2805}e^{16} + \frac{2}{283}\sqrt{935}e^{24}$	$(\frac{66}{283}, -\frac{52}{283}, \frac{3}{283}, \frac{132}{283}, -\frac{104}{283}, \frac{14}{283}, \frac{69}{283}, -\frac{38}{283}, \frac{80}{283})$ $+ \frac{20}{283}\sqrt{119}e^1 \otimes e_5 + \frac{2}{283}\sqrt{9095}e^4 \otimes e_8$	{12389, 12789, 1368, 1678}
942:11	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{3}e^{12}, \frac{1}{121}\sqrt{237}e^{13}, \frac{1}{121}\sqrt{211}e^{26},$ $\frac{1}{121}\sqrt{177}e^{16} + \frac{5}{121}\sqrt{3}e^{24}$	$(-\frac{9}{242}, \frac{5}{121}, \frac{15}{242}, -\frac{9}{121}, -\frac{2}{121}, \frac{1}{121}, \frac{3}{121}, \frac{1}{22}, -\frac{4}{121})$ $+ \frac{1}{121}\sqrt{47}e^5 \otimes e_9 + \frac{2}{121}\sqrt{57}e^3 \otimes e_8 + \frac{2}{121}\sqrt{66}e^2 \otimes e_7$	{123569, 2589}
942:11	$0, 0, 0, 0, 0, \frac{1}{911}\sqrt{81926}e^{12}, \frac{1}{911}\sqrt{251758}e^{13}, \frac{78}{911}\sqrt{23}e^{26},$ $\frac{1}{911}\sqrt{128570}e^{16} + \frac{8}{911}\sqrt{598}e^{24}$	$(\frac{5}{911}, -\frac{87}{911}, \frac{130}{911}, \frac{10}{911}, \frac{434}{911}, -\frac{82}{911}, \frac{135}{911}, -\frac{169}{911}, -\frac{77}{911})$ $+ \frac{12}{911}\sqrt{1495}e^5 \otimes e_7 + \frac{3}{911}\sqrt{31694}e^3 \otimes e_8$	{123569, 135, 2589, 568}
942:11	$0, 0, 0, 0, 0, \frac{19}{1825}\sqrt{717}e^{12}, \frac{38}{1825}\sqrt{303}e^{13}, \frac{38}{1825}\sqrt{30}e^{26},$ $\frac{38}{1825}\sqrt{71}e^{16} + \frac{114}{1825}\sqrt{33}e^{24}$	$(\frac{19}{1825}, -\frac{171}{1825}, \frac{228}{1825}, \frac{38}{1825}, \frac{608}{1825}, -\frac{152}{1825}, \frac{247}{1825}, -\frac{323}{1825}, -\frac{133}{1825})$ $+ \frac{19}{1825}\sqrt{1015}e^4 \otimes e_8 + \frac{19}{1825}\sqrt{1419}e^3 \otimes e_9 + \frac{19}{1825}\sqrt{967}e^5 \otimes e_7$	{2589, 3678}
942:11	$0, 0, 0, 0, 0, \frac{8}{1135}\sqrt{5133}e^{12}, \frac{4}{1135}\sqrt{3886}e^{13}, \frac{4}{1135}\sqrt{10614}e^{26},$ $\frac{8}{1135}\sqrt{1653}e^{16} + \frac{8}{1135}\sqrt{87}e^{24}$	$(\frac{63}{1135}, \frac{126}{1135}, -\frac{401}{1135}, \frac{126}{1135}, \frac{132}{1135}, \frac{189}{1135}, -\frac{338}{1135}, \frac{63}{1135}, \frac{252}{1135})$ $+ \frac{4}{1135}\sqrt{31146}e^2 \otimes e_7 + \frac{8}{1135}\sqrt{6757}e^1 \otimes e_3$	{15678, 1678, 357, 37}
942:11	$0, 0, 0, 0, 0, \frac{3}{353}\sqrt{5954}e^{12}, \frac{2}{353}\sqrt{22213}e^{13}, \frac{1}{353}\sqrt{6870}e^{26},$ $\frac{4}{353}\sqrt{3206}e^{16} + \frac{1}{353}\sqrt{91142}e^{24}$	$(\frac{77}{353}, -\frac{25}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{42}{353}, \frac{52}{353}, -\frac{75}{353}, \frac{27}{353}, \frac{129}{353})$ $+ \frac{1}{353}\sqrt{142438}e^4 \otimes e_7$	{1256789, 126789, 1578, 178, 23579, 2379, 3567, 367}
942:11	$0, 0, 0, 0, 0, \frac{1}{375}\sqrt{21758}e^{12}, \frac{1}{375}\sqrt{21758}e^{13}, \frac{1}{375}\sqrt{133386}e^{26},$ $\frac{4}{375}\sqrt{1419}e^{16} + \frac{4}{375}\sqrt{1419}e^{24}$	$(\frac{46}{375}, -\frac{24}{125}, \frac{3}{25}, \frac{92}{375}, 1, -\frac{26}{375}, \frac{91}{375}, -\frac{98}{375}, \frac{4}{75})$ $+ \frac{1}{375}\sqrt{290422}e^5 \otimes e_8$	{1238, 1278, 13689, 16789, 23567, 256, 3579, 59}
942:11	$0, 0, 0, 0, 0, \frac{456}{3457}\sqrt{7}e^{12}, \frac{76}{3457}\sqrt{454}e^{13}, \frac{190}{3457}\sqrt{3}e^{26},$ $\frac{38}{3457}\sqrt{983}e^{16} + \frac{38}{3457}\sqrt{1418}e^{24}$	$(\frac{385}{3457}, -\frac{125}{3457}, -\frac{337}{3457}, \frac{770}{3457}, -\frac{1059}{3457}, \frac{260}{3457}, \frac{48}{3457}, \frac{135}{3457}, \frac{645}{3457})$ $+ \frac{114}{3457}\sqrt{141}e^3 \otimes e_5 + \frac{38}{3457}\sqrt{1978}e^4 \otimes e_7$	{1256789, 1578, 2379, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:11	$0, 0, 0, 0, 0, \frac{1}{1653} \sqrt{127958}e^{12}, \frac{1}{1653} \sqrt{424970}e^{13}, \frac{1}{1653} \sqrt{551994}e^{26},$ $\frac{2}{551} \sqrt{9807}e^{16} + \frac{2}{1653} \sqrt{60243}e^{24}$	$(-\frac{44}{1653}, \frac{46}{551}, -\frac{5}{29}, -\frac{88}{1653}, \frac{233}{551}, \frac{94}{1653}, -\frac{329}{1653}, \frac{8}{57}, \frac{50}{1653})$ $+\frac{23}{1653} \sqrt{934}e^5 \otimes e_8 + \frac{2}{551} \sqrt{24751}e^2 \otimes e_7$	{12348, 146789, 2456, 34579}
942:11	$0, 0, 0, 0, 0, \frac{25}{2431} \sqrt{870}e^{12}, \frac{75}{2431} \sqrt{78}e^{13}, \frac{25}{2431} \sqrt{1338}e^{26},$ $\frac{50}{2431} \sqrt{78}e^{16} + \frac{400}{2431} e^{24}$	$(\frac{50}{2431}, \frac{100}{2431}, -\frac{575}{2431}, \frac{100}{2431}, \frac{875}{2431}, \frac{150}{2431}, -\frac{525}{2431}, \frac{250}{2431}, \frac{200}{2431})$ $+\frac{100}{2431} \sqrt{138}e^2 \otimes e_7 + \frac{25}{2431} \sqrt{1294}e^5 \otimes e_8 + \frac{50}{2431} \sqrt{226}e^1 \otimes e_3$	{146789, 34579}
942:11	$0, 0, 0, 0, 0, \frac{42}{1235} \sqrt{105}e^{12}, \frac{28}{1235} \sqrt{287}e^{13}, \frac{28}{1235} \sqrt{203}e^{26},$ $\frac{7}{1235} \sqrt{266}e^{16} + \frac{7}{1235} \sqrt{1358}e^{24}$	$(\frac{21}{1235}, \frac{35}{247}, -\frac{189}{1235}, \frac{42}{1235}, -\frac{322}{1235}, \frac{196}{1235}, -\frac{168}{1235}, \frac{371}{1235}, \frac{217}{1235})$ $+\frac{7}{1235} \sqrt{6454}e^1 \otimes e_5 + \frac{7}{1235} \sqrt{8890}e^2 \otimes e_7$	{12348, 146789, 2456, 34579}
942:11	$0, 0, 0, 0, 0, \frac{12}{71} \sqrt{5}e^{12}, \frac{36}{497} \sqrt{35}e^{13}, \frac{4}{497} \sqrt{1281}e^{26},$ $\frac{12}{497} \sqrt{7}e^{16} + \frac{8}{497} \sqrt{1155}e^{24}$	$(\frac{1}{71}, -\frac{2}{71}, \frac{24}{71}, \frac{2}{71}, -\frac{22}{71}, -\frac{1}{71}, \frac{25}{71}, -\frac{3}{71}, 0)$ $+\frac{4}{497} \sqrt{4074}e^4 \otimes e_5 + \frac{4}{497} \sqrt{5523}e^3 \otimes e_9$	{123468, 14789, 2347, 469}
942:11	$0, 0, 0, 0, 0, \frac{27}{5335} \sqrt{218}e^{12}, \frac{27}{5335} \sqrt{3526}e^{13}, \frac{27}{5335} \sqrt{2010}e^{26},$ $\frac{108}{5335} \sqrt{89}e^{16} + \frac{54}{5335} \sqrt{714}e^{24}$	$(-\frac{486}{5335}, \frac{108}{1067}, \frac{27}{485}, -\frac{972}{5335}, \frac{1323}{5335}, \frac{54}{5335}, -\frac{189}{5335}, \frac{54}{485}, -\frac{432}{5335})$ $+\frac{108}{5335} \sqrt{301}e^2 \otimes e_7 + \frac{459}{5335} \sqrt{6}e^5 \otimes e_8 + \frac{54}{5335} \sqrt{802}e^3 \otimes e_9$	{289, 3678}
942:11	$0, 0, 0, 0, 0, \frac{1}{1387} \sqrt{86118}e^{12}, \frac{2}{1387} \sqrt{73154}e^{13}, \frac{4}{1387} \sqrt{6945}e^{26},$ $\frac{2}{1387} \sqrt{80099}e^{16} + \frac{3}{1387} \sqrt{15742}e^{24}$	$(-\frac{7}{1387}, \frac{13}{1387}, \frac{462}{1387}, -\frac{14}{1387}, -\frac{470}{1387}, \frac{6}{1387}, \frac{455}{1387}, \frac{1}{73}, -\frac{1}{1387})$ $+\frac{1}{1387} \sqrt{563934}e^1 \otimes e_5 + \frac{3}{1387} \sqrt{65746}e^3 \otimes e_9$	{1279, 136, 25689, 3578}
942:11	$0, 0, 0, 0, 0, \frac{4}{23} \sqrt{5}e^{12}, \frac{2}{23} \sqrt{46}e^{13}, \frac{2}{23} \sqrt{30}e^{26},$ $\frac{2}{23} \sqrt{30}e^{16} + \frac{4}{23} \sqrt{7}e^{24}$	$(\frac{3}{23}, -\frac{4}{23}, \frac{7}{23}, \frac{6}{23}, -\frac{6}{23}, -\frac{1}{23}, \frac{10}{23}, -\frac{5}{23}, \frac{2}{23})$ $+\frac{10}{23} \sqrt{2}e^4 \otimes e_5 + \frac{2}{23} \sqrt{74}e^3 \otimes e_8$	{123569, 135, 2589, 568}
942:11	$0, 0, 0, 0, 0, \frac{1}{121} \sqrt{4551}e^{12}, \frac{3}{121} \sqrt{185}e^{13}, \frac{1}{121} \sqrt{3145}e^{26},$ $\frac{1}{121} \sqrt{2553}e^{16} + \frac{1}{121} \sqrt{555}e^{24}$	$(-\frac{45}{242}, \frac{29}{121}, \frac{51}{242}, -\frac{45}{121}, \frac{58}{121}, \frac{13}{121}, \frac{3}{242}, \frac{71}{121}, -\frac{16}{121})$ $+\frac{5}{121} \sqrt{259}e^5 \otimes e_9 + \frac{6}{121} \sqrt{259}e^2 \otimes e_4$	{1345678, 14568, 345, 457}
942:11	$0, 0, 0, 0, 0, \frac{8}{1083} \sqrt{2910}e^{12}, \frac{2}{1083} \sqrt{91374}e^{13}, \frac{2}{361} \sqrt{6305}e^{26},$ $\frac{10}{361} \sqrt{291}e^{16} + \frac{10}{1083} \sqrt{3201}e^{24}$	$(\frac{60}{361}, -\frac{67}{361}, \frac{81}{361}, \frac{120}{361}, -\frac{113}{361}, \frac{7}{361}, \frac{141}{361}, \frac{74}{361}, \frac{53}{361})$ $+\frac{16}{1083} \sqrt{2037}e^3 \otimes e_5 + \frac{2}{1083} \sqrt{153066}e^4 \otimes e_8$	{23789, 2589, 3678, 568}
942:11	$0, 0, 0, 0, 0, \frac{1}{181} \sqrt{5539}e^{12}, \frac{4}{181} \sqrt{174}e^{13}, \frac{1}{181} \sqrt{1653}e^{26},$ $\frac{11}{181} \sqrt{29}e^{16} + \frac{1}{181} \sqrt{3335}e^{24}$	$(-\frac{7}{362}, \frac{22}{181}, -\frac{65}{362}, -\frac{7}{181}, \frac{12}{181}, \frac{37}{362}, -\frac{36}{181}, \frac{81}{362}, \frac{15}{181})$ $+\frac{1}{181} \sqrt{5365}e^1 \otimes e_3 + \frac{3}{181} \sqrt{493}e^2 \otimes e_4$	{14568, 1468, 34, 345}
942:11	$0, 0, 0, 0, 0, \frac{54}{3425} \sqrt{598}e^{12}, \frac{6}{3425} \sqrt{95358}e^{13}, \frac{6}{3425} \sqrt{16215}e^{26},$ $\frac{6}{3425} \sqrt{1311}e^{16} + \frac{18}{3425} \sqrt{7843}e^{24}$	$(-\frac{362}{3425}, \frac{213}{3425}, \frac{731}{3425}, -\frac{724}{3425}, \frac{1611}{3425}, -\frac{149}{3425}, \frac{369}{3425}, \frac{64}{3425}, -\frac{511}{3425})$ $+\frac{24}{3425} \sqrt{5658}e^5 \otimes e_7 + \frac{6}{3425} \sqrt{125166}e^3 \otimes e_9$	{126789, 1358, 259, 367}
942:11	$0, 0, 0, 0, 0, \frac{2}{347} \sqrt{3277}e^{12}, \frac{2}{347} \sqrt{3277}e^{13}, \frac{12}{347} \sqrt{226}e^{26},$ $\frac{1}{347} \sqrt{9605}e^{16} + \frac{1}{347} \sqrt{9605}e^{24}$	$(-\frac{83}{694}, \frac{30}{347}, \frac{263}{694}, -\frac{83}{347}, \frac{32}{347}, -\frac{23}{694}, \frac{90}{347}, \frac{37}{694}, -\frac{53}{347})$ $+\frac{3}{347} \sqrt{3955}e^2 \otimes e_4 + \frac{3}{347} \sqrt{3955}e^3 \otimes e_8$	{12578, 1278, 23567, 2367}
942:11	$0, 0, 0, 0, 0, \frac{1}{171} \sqrt{4242}e^{12}, \frac{1}{171} \sqrt{8686}e^{13}, \frac{1}{57} \sqrt{202}e^{26},$ $\frac{4}{171} \sqrt{101}e^{16} + \frac{4}{171} \sqrt{505}e^{24}$	$(-\frac{10}{171}, -\frac{8}{171}, \frac{73}{171}, -\frac{20}{171}, \frac{25}{57}, -\frac{2}{19}, \frac{7}{19}, -\frac{26}{171}, -\frac{28}{171})$ $+\frac{1}{171} \sqrt{11110}e^5 \otimes e_8 + \frac{8}{171} \sqrt{303}e^3 \otimes e_9$	{123456, 14579, 23478, 4689}
942:12	$0, 0, 0, 0, 0, \frac{6}{4225} \sqrt{499}e^{12}, \frac{6}{4225} \sqrt{527}e^{13}, \frac{6}{4225} \sqrt{941}e^{16},$ $\frac{6}{4225} \sqrt{122}e^{26} + \frac{18}{4225} \sqrt{161}e^{45}$	$(\frac{57}{4225}, -\frac{9}{4225}, -\frac{159}{4225}, -\frac{84}{4225}, \frac{123}{4225}, \frac{48}{4225}, -\frac{102}{4225}, \frac{21}{845}, \frac{3}{325})$ $+\frac{12}{4225} \sqrt{301}e^5 \otimes e_8 - \frac{36}{4225} \sqrt{46}e^1 \otimes e_9 + \frac{6}{4225} \sqrt{997}e^4 \otimes e_7$	{1278, 13456, 24689, 3579}
942:12	$0, 0, 0, 0, 0, \frac{6}{4225} \sqrt{499}e^{12}, \frac{6}{4225} \sqrt{527}e^{13}, \frac{6}{4225} \sqrt{941}e^{16},$ $\frac{6}{4225} \sqrt{122}e^{26} + \frac{18}{4225} \sqrt{161}e^{45}$	$(\frac{57}{4225}, -\frac{9}{4225}, -\frac{159}{4225}, -\frac{84}{4225}, \frac{123}{4225}, \frac{48}{4225}, -\frac{102}{4225}, \frac{21}{845}, \frac{3}{325})$ $+\frac{12}{4225} \sqrt{301}e^5 \otimes e_8 + \frac{36}{4225} \sqrt{46}e^1 \otimes e_9 + \frac{6}{4225} \sqrt{997}e^4 \otimes e_7$	{1278, 13456, 24689, 3579}
942:12	$0, 0, 0, 0, 0, \frac{4}{4541} \sqrt{27659}e^{12}, \frac{2}{4541} \sqrt{1194218}e^{13}, \frac{4}{4541} \sqrt{317265}e^{16},$ $\frac{8}{4541} \sqrt{16270}e^{26} + \frac{2}{4541} \sqrt{374210}e^{45}$	$(-\frac{916}{4541}, \frac{758}{4541}, \frac{2180}{4541}, \frac{1927}{4541}, -\frac{1327}{4541}, -\frac{158}{4541}, \frac{1264}{4541}, -\frac{1074}{4541}, \frac{600}{4541})$ $+\frac{3254}{4541} e^4 \otimes e_5 + \frac{8}{4541} \sqrt{242423}e^3 \otimes e_8$	{123469, 123569, 14789, 15789}
942:12	$0, 0, 0, 0, 0, \frac{54}{1739} \sqrt{101}e^{12}, \frac{621}{1739} \sqrt{2}e^{13}, \frac{270}{1739} e^{16},$ $\frac{54}{1739} \sqrt{210}e^{26} + \frac{135}{1739} \sqrt{6}e^{45}$	$(-\frac{486}{1739}, \frac{513}{1739}, \frac{270}{1739}, \frac{270}{1739}, \frac{270}{1739}, \frac{27}{1739}, -\frac{216}{1739}, -\frac{459}{1739}, \frac{540}{1739})$ $+\frac{54}{1739} \sqrt{302}e^3 \otimes e_8 + \frac{54}{1739} \sqrt{470}e^2 \otimes e_7$	{123459, 1239, 1456789, 16789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:12	$0, 0, 0, 0, 0, \frac{4}{3925} \sqrt{167401}e^{12}, \frac{2}{3925} \sqrt{967434}e^{13}, \frac{4}{3925} \sqrt{148915}e^{16},$ $\frac{104}{3925} \sqrt{474}e^{26} + \frac{2}{3925} \sqrt{273182}e^{45}$	$(-\frac{564}{3925}, \frac{998}{3925}, -\frac{492}{3925}, \frac{1743}{3925}, -\frac{311}{3925}, \frac{434}{3925}, -\frac{1056}{3925}, -\frac{26}{785}, \frac{1432}{3925})$ $+ \frac{2054}{3925} e^4 \otimes e_5 + \frac{24}{3925} \sqrt{17459}e^2 \otimes e_7$	{246, 256, 3478, 3578}
942:12	$0, 0, 0, 0, 0, \frac{1}{1433} \sqrt{1384122}e^{12}, \frac{2}{1433} \sqrt{199070}e^{13}, \frac{2}{1433} \sqrt{382917}e^{16},$ $\frac{3}{1433} \sqrt{49182}e^{26} + \frac{2}{1433} \sqrt{80799}e^{45}$	$(\frac{528}{1433}, -\frac{177}{1433}, -\frac{643}{1433}, \frac{87}{1433}, \frac{87}{1433}, \frac{351}{1433}, -\frac{115}{1433}, \frac{879}{1433}, \frac{174}{1433})$ $+ \frac{4}{1433} \sqrt{176821}e^1 \otimes e_3$	{12458, 128, 1456, 16, 234689, 349}
942:12	$0, 0, 0, 0, 0, \frac{4}{4099} \sqrt{48129}e^{12}, \frac{24}{4099} \sqrt{183}e^{13}, \frac{4}{4099} \sqrt{83082}e^{16},$ $\frac{4}{4099} \sqrt{5795}e^{26} + \frac{4}{4099} \sqrt{85278}e^{45}$	$(\frac{216}{4099}, -\frac{244}{4099}, \frac{342}{4099}, \frac{676}{4099}, -\frac{948}{4099}, -\frac{28}{4099}, \frac{558}{4099}, \frac{188}{4099}, -\frac{272}{4099})$ $- \frac{180}{4099} \sqrt{61}e^1 \otimes e_9 + \frac{8}{4099} \sqrt{24766}e^4 \otimes e_8$	{1238, 1278, 13456, 14567, 2356789, 25689, 3479, 49}
942:12	$0, 0, 0, 0, 0, \frac{4}{4099} \sqrt{48129}e^{12}, \frac{24}{4099} \sqrt{183}e^{13}, \frac{4}{4099} \sqrt{83082}e^{16},$ $\frac{4}{4099} \sqrt{5795}e^{26} + \frac{4}{4099} \sqrt{85278}e^{45}$	$(\frac{216}{4099}, -\frac{244}{4099}, \frac{342}{4099}, \frac{676}{4099}, -\frac{948}{4099}, -\frac{28}{4099}, \frac{558}{4099}, \frac{188}{4099}, -\frac{272}{4099})$ $+ \frac{180}{4099} \sqrt{61}e^1 \otimes e_9 + \frac{8}{4099} \sqrt{24766}e^4 \otimes e_8$	{1238, 1278, 13456, 14567, 2356789, 25689, 3479, 49}
942:12	$0, 0, 0, 0, 0, \frac{2}{4689} \sqrt{170585}e^{12}, \frac{2}{1563} \sqrt{69799}e^{13}, \frac{2}{4689} \sqrt{246331}e^{16},$ $\frac{22}{4689} \sqrt{1878}e^{26} + \frac{2}{4689} \sqrt{413473}e^{45}$	$(-\frac{101}{1563}, \frac{191}{4689}, \frac{235}{1563}, \frac{1028}{4689}, -\frac{949}{4689}, -\frac{112}{4689}, \frac{134}{1563}, -\frac{415}{4689}, \frac{79}{4689})$ $+ \frac{2}{4689} \sqrt{618801}e^4 \otimes e_7 + \frac{4}{1563} \sqrt{20345}e^3 \otimes e_9$	{1234568, 1345, 2489, 469}
942:12	$0, 0, 0, 0, 0, \frac{2}{4369} \sqrt{305855}e^{12}, \frac{2}{257} \sqrt{4565}e^{13}, \frac{6}{4369} \sqrt{37433}e^{16},$ $\frac{4}{4369} \sqrt{66649}e^{26} + \frac{2}{4369} \sqrt{864611}e^{45}$	$(-\frac{1039}{4369}, \frac{1067}{4369}, \frac{815}{4369}, \frac{1602}{4369}, -\frac{507}{4369}, \frac{28}{4369}, \frac{224}{4369}, -\frac{1011}{4369}, \frac{1095}{4369})$ $+ \frac{2}{4369} \sqrt{1925517}e^4 \otimes e_7 + \frac{4}{4369} \sqrt{415415}e^3 \otimes e_8$	{123469, 15789, 237, 4568}
942:12	$0, 0, 0, 0, 0, \frac{23}{1561} \sqrt{813}e^{12}, \frac{23}{1561} \sqrt{154}e^{13}, \frac{23}{1561} \sqrt{255}e^{16},$ $\frac{69}{223} e^{26} + \frac{92}{1561} \sqrt{3}e^{45}$	$(\frac{69}{1561}, \frac{138}{1561}, -\frac{460}{1561}, -\frac{92}{1561}, \frac{437}{1561}, \frac{207}{1561}, -\frac{391}{1561}, \frac{276}{1561}, \frac{345}{1561})$ $+ \frac{23}{1561} \sqrt{1063}e^1 \otimes e_3 + \frac{529}{1561} e^5 \otimes e_4 + \frac{69}{1561} \sqrt{137}e^2 \otimes e_7$	{347, 357}
942:12	$0, 0, 0, 0, 0, \frac{23}{2809} \sqrt{1418}e^{12}, \frac{23}{2809} \sqrt{1166}e^{13}, \frac{46}{2809} \sqrt{655}e^{16},$ $\frac{23}{2809} \sqrt{1154}e^{26} + \frac{23}{2809} \sqrt{1382}e^{45}$	$(\frac{69}{2809}, \frac{138}{2809}, -\frac{460}{2809}, -\frac{460}{2809}, \frac{805}{2809}, \frac{207}{2809}, -\frac{391}{2809}, \frac{276}{2809}, \frac{345}{2809})$ $+ \frac{23}{2809} \sqrt{2530}e^5 \otimes e_8 + \frac{23}{2809} \sqrt{78}e^2 \otimes e_7 + \frac{322}{2809} \sqrt{13}e^1 \otimes e_3$	{128, 234689}
942:12	$0, 0, 0, 0, 0, \frac{1}{1449} \sqrt{273182}e^{12}, \frac{52}{1449} \sqrt{474}e^{13}, \frac{2}{1449} \sqrt{148915}e^{16},$ $\frac{1}{1449} \sqrt{967434}e^{26} + \frac{2}{1449} \sqrt{167401}e^{45}$	$(\frac{8}{483}, -\frac{113}{1449}, \frac{275}{483}, \frac{101}{1449}, -\frac{101}{1449}, \frac{89}{1449}, \frac{283}{483}, -\frac{65}{1449}, -\frac{202}{1449})$ $+ \frac{4}{483} \sqrt{17459}e^3 \otimes e_9$	{1234568, 12368, 13, 1345, 2489, 469}
942:12	$0, 0, 0, 0, 0, \frac{2}{329} \sqrt{2573}e^{12}, \frac{2}{329} \sqrt{2201}e^{13}, \frac{2}{329} \sqrt{4867}e^{16},$ $\frac{2}{329} \sqrt{2201}e^{26} + \frac{2}{329} \sqrt{2573}e^{45}$	$(\frac{9}{329}, \frac{15}{329}, -\frac{53}{329}, \frac{95}{329}, -\frac{8}{47}, \frac{24}{329}, -\frac{44}{329}, \frac{33}{329}, \frac{39}{329})$ $+ \frac{2}{329} \sqrt{4681}e^1 \otimes e_3 + \frac{2}{329} \sqrt{4681}e^4 \otimes e_8$	{128, 1456, 235689, 349}
942:12	$0, 0, 0, 0, 0, \frac{30}{1481} \sqrt{133}e^{12}, \frac{30}{1481} \sqrt{79}e^{13}, \frac{30}{1481} \sqrt{281}e^{16},$ $\frac{75}{1481} \sqrt{23}e^{26} + \frac{90}{1481} \sqrt{23}e^{45}$	$(-\frac{30}{1481}, \frac{135}{1481}, -\frac{255}{1481}, -\frac{60}{1481}, \frac{300}{1481}, \frac{105}{1481}, -\frac{285}{1481}, \frac{75}{1481}, \frac{240}{1481})$ $+ \frac{135}{1481} \sqrt{13}e^1 \otimes e_3 + \frac{15}{1481} \sqrt{1201}e^5 \otimes e_8 + \frac{15}{1481} \sqrt{481}e^4 \otimes e_7$	{1456, 234689}
942:12	$0, 0, 0, 0, 0, \frac{4}{173} \sqrt{13}e^{12}, \frac{2}{173} \sqrt{429}e^{13}, \frac{1}{173} \sqrt{1027}e^{16},$ $\frac{2}{173} \sqrt{429}e^{26} + \frac{4}{173} \sqrt{13}e^{45}$	$(-\frac{21}{173}, \frac{16}{173}, \frac{24}{173}, -\frac{1}{173}, \frac{12}{173}, -\frac{5}{173}, \frac{3}{173}, -\frac{26}{173}, \frac{11}{173})$ $+ \frac{13}{173} e^5 \otimes e_4 + \frac{3}{173} \sqrt{221}e^2 \otimes e_7 + \frac{3}{173} \sqrt{221}e^3 \otimes e_9$	{146789, 156789}
942:12	$0, 0, 0, 0, 0, \frac{46}{2593} \sqrt{813}e^{12}, \frac{46}{2593} \sqrt{154}e^{13}, \frac{46}{2593} \sqrt{255}e^{16},$ $\frac{966}{2593} e^{26} + \frac{184}{2593} \sqrt{3}e^{45}$	$(\frac{138}{2593}, \frac{276}{2593}, -\frac{920}{2593}, \frac{345}{2593}, \frac{345}{2593}, \frac{414}{2593}, -\frac{782}{2593}, \frac{552}{2593}, \frac{690}{2593})$ $+ \frac{138}{2593} \sqrt{137}e^2 \otimes e_7 + \frac{46}{2593} \sqrt{1063}e^1 \otimes e_3$	{145679, 1679, 347}
942:12	$0, 0, 0, 0, 0, \frac{6}{3721} \sqrt{365}e^{12}, \frac{6}{3721} \sqrt{27959}e^{13}, \frac{6}{3721} \sqrt{58181}e^{16},$ $\frac{6}{3721} \sqrt{45698}e^{26} + \frac{18}{3721} \sqrt{11753}e^{45}$	$(-\frac{807}{3721}, \frac{999}{3721}, -\frac{15}{3721}, \frac{492}{3721}, \frac{699}{3721}, \frac{192}{3721}, -\frac{822}{3721}, -\frac{615}{3721}, \frac{1191}{3721})$ $+ \frac{12}{3721} \sqrt{32485}e^5 \otimes e_8 + \frac{66}{3721} \sqrt{949}e^4 \otimes e_7$	{125679, 13489, 245, 3678}
942:12	$0, 0, 0, 0, 0, \frac{1}{36} \sqrt{170}e^{12}, \frac{1}{12} \sqrt{102}e^{13}, \frac{1}{18} \sqrt{34}e^{16},$ $\frac{1}{36} \sqrt{102}e^{26} + \frac{5}{36} \sqrt{34}e^{45}$	$(-\frac{1}{12}, \frac{5}{18}, -\frac{5}{24}, \frac{47}{72}, -\frac{13}{72}, \frac{7}{36}, -\frac{7}{24}, \frac{1}{9}, \frac{17}{36})$ $+ \frac{1}{18} \sqrt{510}e^4 \otimes e_7$	{1234689, 1256789, 1349, 1579, 2378, 2458, 367, 456}
942:12	$0, 0, 0, 0, 0, \frac{2}{4037} \sqrt{1384122}e^{12}, \frac{4}{4037} \sqrt{199070}e^{13}, \frac{4}{4037} \sqrt{382917}e^{16},$ $\frac{6}{4037} \sqrt{49182}e^{26} + \frac{4}{4037} \sqrt{80799}e^{45}$	$(\frac{96}{367}, -\frac{354}{4037}, -\frac{1286}{4037}, \frac{1345}{4037}, -\frac{997}{4037}, \frac{702}{4037}, -\frac{230}{4037}, \frac{1758}{4037}, \frac{348}{4037})$ $+ \frac{2342}{4037} e^4 \otimes e_5 + \frac{8}{4037} \sqrt{176821}e^1 \otimes e_3$	{234689, 235689, 349, 359}
942:12	$0, 0, 0, 0, 0, \frac{2}{89} \sqrt{355}e^{12}, \frac{2}{89} \sqrt{213}e^{13}, \frac{4}{89} \sqrt{71}e^{16},$ $\frac{2}{89} \sqrt{213}e^{26} + \frac{2}{89} \sqrt{355}e^{45}$	$(\frac{6}{89}, \frac{10}{89}, \frac{15}{89}, \frac{84}{89}, -\frac{58}{89}, \frac{16}{89}, \frac{21}{89}, \frac{22}{89}, \frac{26}{89})$ $+ \frac{142}{89} e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:12	$0, 0, 0, 0, 0, \frac{13}{2849}\sqrt{282}e^{12}, \frac{39}{2849}\sqrt{314}e^{13}, \frac{130}{2849}\sqrt{21}e^{16},$ $\frac{13}{2849}\sqrt{2974}e^{26} + \frac{117}{2849}\sqrt{2}e^{45}$	$(-\frac{39}{407}, \frac{208}{2849}, \frac{312}{2849}, \frac{312}{2849}, -\frac{169}{2849}, -\frac{65}{2849}, \frac{39}{2849}, -\frac{338}{2849}, \frac{13}{259})$ $+ \frac{13}{2849}\sqrt{3210}e^2 \otimes e_7 + \frac{13}{2849}\sqrt{962}e^5 \otimes e_8 + \frac{78}{2849}\sqrt{83}e^3 \otimes e_9$	{1456789, 3578}
942:12	$0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{27659}e^{12}, \frac{1}{1457}\sqrt{1194218}e^{13}, \frac{2}{1457}\sqrt{317265}e^{16},$ $\frac{4}{1457}\sqrt{16270}e^{26} + \frac{1}{1457}\sqrt{374210}e^{45}$	$(-\frac{458}{1457}, \frac{379}{1457}, \frac{1090}{1457}, \frac{150}{1457}, \frac{150}{1457}, -\frac{79}{1457}, \frac{632}{1457}, -\frac{537}{1457}, \frac{300}{1457})$ $+ \frac{4}{1457}\sqrt{242423}e^3 \otimes e_8$	{123469, 14789, 23457, 237, 4568, 68}
942:12	$0, 0, 0, 0, 0, \frac{2}{797}\sqrt{28974}e^{12}, \frac{3}{797}\sqrt{9658}e^{13}, \frac{2}{797}\sqrt{14487}e^{16},$ $\frac{2}{797}\sqrt{24145}e^{26} + \frac{3}{797}\sqrt{9658}e^{45}$	$(-\frac{192}{797}, \frac{253}{797}, \frac{6}{797}, \frac{308}{797}, \frac{6}{797}, \frac{61}{797}, -\frac{186}{797}, -\frac{131}{797}, \frac{314}{797})$ $+ \frac{2}{797}\sqrt{66289}e^4 \otimes e_8 + \frac{2}{797}\sqrt{85605}e^2 \otimes e_7$	{123589, 14679, 268, 3457}
942:12	$0, 0, 0, 0, 0, \frac{2}{1449}\sqrt{167401}e^{12}, \frac{1}{1449}\sqrt{967434}e^{13}, \frac{2}{1449}\sqrt{148915}e^{16},$ $\frac{52}{1449}\sqrt{474}e^{26} + \frac{1}{1449}\sqrt{273182}e^{45}$	$(-\frac{94}{483}, \frac{499}{1449}, -\frac{82}{483}, \frac{358}{1449}, \frac{358}{1449}, \frac{31}{207}, -\frac{176}{483}, -\frac{65}{1449}, \frac{716}{1449})$ $+ \frac{4}{483}\sqrt{17459}e^2 \otimes e_7$	{123459, 1239, 1456789, 16789, 246, 3478}
942:12	$0, 0, 0, 0, 0, \frac{2}{3925}\sqrt{273182}e^{12}, \frac{104}{3925}\sqrt{474}e^{13}, \frac{4}{3925}\sqrt{148915}e^{16},$ $\frac{2}{3925}\sqrt{967434}e^{26} + \frac{4}{3925}\sqrt{167401}e^{45}$	$(\frac{48}{3925}, -\frac{226}{3925}, \frac{66}{157}, \frac{33}{157}, -\frac{1229}{3925}, -\frac{178}{3925}, \frac{1698}{3925}, -\frac{26}{785}, -\frac{404}{3925})$ $+ \frac{2054}{3925}e^4 \otimes e_5 + \frac{24}{3925}\sqrt{17459}e^3 \otimes e_9$	{2489, 2589, 469, 569}
942:12	$0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3}e^{12}, \frac{966}{2593}e^{13}, \frac{46}{2593}\sqrt{255}e^{16},$ $\frac{46}{2593}\sqrt{154}e^{26} + \frac{46}{2593}\sqrt{813}e^{45}$	$(-\frac{351}{2593}, \frac{191}{2593}, \frac{1089}{2593}, \frac{547}{2593}, -\frac{516}{2593}, -\frac{160}{2593}, \frac{738}{2593}, -\frac{511}{2593}, \frac{31}{2593})$ $+ \frac{138}{2593}\sqrt{137}e^3 \otimes e_9 + \frac{46}{2593}\sqrt{1063}e^4 \otimes e_8$	{123456, 138, 249, 5689}
942:12	$0, 0, 0, 0, 0, \frac{8}{333}\sqrt{13}e^{12}, \frac{4}{333}\sqrt{429}e^{13}, \frac{2}{333}\sqrt{1027}e^{16},$ $\frac{4}{333}\sqrt{429}e^{26} + \frac{8}{333}\sqrt{13}e^{45}$	$(-\frac{14}{111}, \frac{32}{333}, \frac{16}{111}, \frac{11}{333}, \frac{11}{333}, -\frac{10}{333}, \frac{2}{111}, -\frac{52}{333}, \frac{22}{333})$ $+ \frac{2}{111}\sqrt{221}e^2 \otimes e_7 + \frac{2}{111}\sqrt{221}e^3 \otimes e_9$	{146789, 34578, 378}
942:12	$0, 0, 0, 0, 0, \frac{2}{2449}\sqrt{312945}e^{12}, \frac{2}{2449}\sqrt{57205}e^{13}, \frac{6}{2449}\sqrt{41053}e^{16},$ $\frac{12}{2449}\sqrt{4711}e^{26} + \frac{26}{2449}\sqrt{2019}e^{45}$	$(\frac{381}{2449}, \frac{87}{2449}, -\frac{965}{2449}, \frac{762}{2449}, -\frac{207}{2449}, \frac{468}{2449}, -\frac{584}{2449}, \frac{849}{2449}, \frac{555}{2449})$ $+ \frac{2}{2449}\sqrt{652137}e^4 \otimes e_7 + \frac{4}{2449}\sqrt{198535}e^1 \otimes e_3$	{1278, 167, 2356789, 3579}
942:12	$0, 0, 0, 0, 0, \frac{2}{1433}\sqrt{80799}e^{12}, \frac{3}{1433}\sqrt{49182}e^{13}, \frac{2}{1433}\sqrt{382917}e^{16},$ $\frac{1}{1433}\sqrt{199070}e^{26} + \frac{1}{1433}\sqrt{1384122}e^{45}$	$(-\frac{378}{1433}, \frac{427}{1433}, \frac{414}{1433}, \frac{842}{1433}, -\frac{366}{1433}, \frac{49}{1433}, \frac{36}{1433}, \frac{329}{1433}, \frac{476}{1433})$ $+ \frac{4}{1433}\sqrt{176821}e^4 \otimes e_8$	{12378, 128, 134567, 1456, 235689, 256789, 349, 479}
942:12	$0, 0, 0, 0, 0, \frac{3}{202}\sqrt{65}e^{12}, \frac{3}{202}\sqrt{254}e^{13}, \frac{3}{202}\sqrt{34}e^{16},$ $\frac{3}{101}\sqrt{13}e^{26} + \frac{9}{101}\sqrt{7}e^{45}$	$(-\frac{12}{101}, \frac{9}{101}, \frac{15}{101}, \frac{12}{101}, -\frac{6}{101}, -\frac{3}{101}, \frac{3}{101}, -\frac{15}{101}, \frac{6}{101})$ $+ \frac{3}{202}\sqrt{145}e^5 \otimes e_8 + \frac{9}{202}e^4 \otimes e_7 + \frac{3}{202}\sqrt{35}e^3 \otimes e_9$	{1345, 2489}
942:13	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2490}e^{12}, \frac{2}{181}\sqrt{4565}e^{13}, \frac{2}{181}\sqrt{249}e^{26},$ $\frac{1}{181}\sqrt{7802}e^{16} + \frac{1}{181}\sqrt{17430}e^{45}$	$(-\frac{77}{362}, \frac{37}{181}, \frac{126}{181}, -\frac{20}{181}, -\frac{20}{181}, -\frac{3}{362}, \frac{175}{362}, \frac{71}{362}, -\frac{40}{181})$ $+ \frac{3}{181}\sqrt{5478}e^3 \otimes e_9$	{123456, 1236, 1479, 234578, 2378, 4689}
942:13	$0, 0, 0, 0, 0, \frac{9}{368}\sqrt{502}e^{12}, \frac{5}{368}\sqrt{2510}e^{13}, \frac{1}{92}\sqrt{4769}e^{26},$ $\frac{9}{92}\sqrt{2761}e^{16} + \frac{5}{368}\sqrt{25351}e^{45}$	$(-\frac{109}{736}, \frac{135}{368}, -\frac{123}{736}, \frac{13}{368}, \frac{13}{368}, \frac{7}{92}, -\frac{29}{92}, \frac{431}{736}, \frac{13}{184})$ $+ \frac{1}{368}\sqrt{152859}e^2 \otimes e_7$	{123458, 1238, 146789, 2456, 26, 3479}
942:13	$0, 0, 0, 0, 0, \frac{4}{1209}\sqrt{103}e^{12}, \frac{4}{1209}\sqrt{395}e^{13}, \frac{4}{1209}\sqrt{223}e^{26},$ $\frac{8}{1209}\sqrt{57}e^{16} + \frac{4}{1209}\sqrt{479}e^{45}$	$(\frac{22}{1209}, -\frac{34}{1209}, \frac{6}{403}, \frac{16}{403}, -\frac{38}{1209}, -\frac{4}{403}, \frac{40}{1209}, -\frac{46}{1209}, \frac{10}{1209})$ $+ \frac{28}{403}e^4 \otimes e_7 + \frac{4}{1209}\sqrt{327}e^3 \otimes e_9 + \frac{4}{1209}\sqrt{355}e^5 \otimes e_8$	{125679, 1345, 2489, 3678}
942:13	$0, 0, 0, 0, 0, \frac{4}{1209}\sqrt{103}e^{12}, \frac{4}{1209}\sqrt{395}e^{13}, \frac{4}{1209}\sqrt{223}e^{26},$ $\frac{8}{1209}\sqrt{57}e^{16} + \frac{4}{1209}\sqrt{479}e^{45}$	$(\frac{22}{1209}, -\frac{34}{1209}, \frac{6}{403}, \frac{16}{403}, -\frac{38}{1209}, -\frac{4}{403}, \frac{40}{1209}, -\frac{46}{1209}, \frac{10}{1209})$ $+ \frac{28}{403}e^4 \otimes e_7 + \frac{4}{1209}\sqrt{327}e^3 \otimes e_9 - \frac{4}{1209}\sqrt{355}e^5 \otimes e_8$	{125679, 1345, 2489, 3678}
942:13	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29}e^{12}, \frac{10}{169}\sqrt{19}e^{13}, \frac{60}{169}e^{26},$ $\frac{10}{169}\sqrt{2}e^{16} + \frac{10}{169}\sqrt{57}e^{45}$	$(-\frac{25}{169}, \frac{41}{169}, \frac{2}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{16}{169}, \frac{23}{169}, \frac{57}{169}, -\frac{9}{169})$ $+ \frac{10}{169}\sqrt{85}e^2 \otimes e_9 + \frac{30}{169}\sqrt{7}e^4 \otimes e_7$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:13	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29}e^{12}, \frac{10}{169}\sqrt{19}e^{13}, \frac{60}{169}e^{26},$ $\frac{10}{169}\sqrt{2}e^{16} + \frac{10}{169}\sqrt{57}e^{45}$	$(-\frac{25}{169}, \frac{41}{169}, \frac{2}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{16}{169}, -\frac{23}{169}, \frac{57}{169}, -\frac{9}{169})$ $- \frac{10}{169}\sqrt{85}e^2 \otimes e_9 + \frac{30}{169}\sqrt{7}e^4 \otimes e_7$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:13	$0, 0, 0, 0, 0, \frac{6}{329}\sqrt{502}e^{12}, \frac{10}{987}\sqrt{2510}e^{13}, \frac{8}{987}\sqrt{4769}e^{26},$ $\frac{8}{987}\sqrt{2761}e^{16} + \frac{2}{987}\sqrt{25351}e^{45}$	$(-\frac{109}{987}, \frac{90}{329}, -\frac{41}{329}, \frac{277}{987}, -\frac{75}{329}, \frac{23}{141}, -\frac{232}{987}, \frac{431}{987}, \frac{52}{987})$ $+ \frac{2}{987}\sqrt{152859}e^2 \otimes e_7 + \frac{502}{987}e^4 \otimes e_5$	{146789, 156789, 3479, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:13	$0, 0, 0, 0, 0, \frac{64}{4299}\sqrt{115}e^{12}, \frac{8}{4299}\sqrt{31073}e^{13}, \frac{8}{4299}\sqrt{28129}e^{26},$ $\frac{16}{4299}\sqrt{7797}e^{16} + \frac{8}{4299}\sqrt{43355}e^{45}$	$(\frac{716}{4299}, -\frac{512}{4299}, -\frac{320}{1433}, \frac{164}{1433}, \frac{428}{4299}, \frac{68}{1433}, -\frac{244}{4299}, -\frac{308}{4299}, \frac{920}{4299})$ $+ \frac{248}{4299}\sqrt{46}e^5 \otimes e_8 + \frac{8}{4299}\sqrt{45678}e^4 \otimes e_7$	{125679, 1345, 2489, 3678}
942:13	$0, 0, 0, 0, 0, \frac{8}{231}\sqrt{138}e^{12}, \frac{4}{231}\sqrt{506}e^{13}, \frac{4}{231}\sqrt{690}e^{26},$ $\frac{8}{231}\sqrt{23}e^{16} + \frac{4}{231}\sqrt{690}e^{45}$	$(\frac{2}{21}, \frac{20}{231}, \frac{12}{77}, \frac{72}{77}, -\frac{152}{231}, \frac{2}{11}, \frac{58}{231}, \frac{62}{231}, \frac{64}{231})$ $+ \frac{368}{231}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 234679, 235679, 2469, 2569}
942:13	$0, 0, 0, 0, 0, \frac{8}{4251}\sqrt{9545}e^{12}, \frac{4}{4251}\sqrt{87731}e^{13}, \frac{44}{4251}\sqrt{1245}e^{26},$ $\frac{4}{4251}\sqrt{99102}e^{16} + \frac{4}{4251}\sqrt{95367}e^{45}$	$(\frac{116}{4251}, \frac{54}{1417}, -\frac{206}{1417}, \frac{368}{1417}, -\frac{710}{4251}, \frac{278}{4251}, -\frac{502}{4251}, \frac{440}{4251}, \frac{394}{4251})$ $+ \frac{4}{1417}\sqrt{18426}e^2 \otimes e_7 + \frac{4}{4251}\sqrt{150562}e^4 \otimes e_8$	{1238, 156789, 2456, 3479}
942:13	$0, 0, 0, 0, 0, \frac{4}{845}\sqrt{79}e^{12}, \frac{4}{845}\sqrt{106}e^{13}, \frac{4}{845}\sqrt{246}e^{26},$ $\frac{4}{845}\sqrt{109}e^{16} + \frac{4}{845}\sqrt{318}e^{45}$	$(-\frac{4}{845}, \frac{18}{845}, -\frac{34}{845}, -\frac{6}{169}, \frac{8}{169}, \frac{14}{845}, -\frac{38}{845}, \frac{32}{845}, \frac{2}{169})$ $+ \frac{24}{845}\sqrt{6}e^4 \otimes e_7 + \frac{4}{845}\sqrt{271}e^2 \otimes e_9 + \frac{4}{845}\sqrt{286}e^5 \otimes e_8$	{1278, 134689, 2456, 3579}
942:13	$0, 0, 0, 0, 0, \frac{4}{845}\sqrt{79}e^{12}, \frac{4}{845}\sqrt{106}e^{13}, \frac{4}{845}\sqrt{246}e^{26},$ $\frac{4}{845}\sqrt{109}e^{16} + \frac{4}{845}\sqrt{318}e^{45}$	$(-\frac{4}{845}, \frac{18}{845}, -\frac{34}{845}, -\frac{6}{169}, \frac{8}{169}, \frac{14}{845}, -\frac{38}{845}, \frac{32}{845}, \frac{2}{169})$ $+ \frac{24}{845}\sqrt{6}e^4 \otimes e_7 - \frac{4}{845}\sqrt{271}e^2 \otimes e_9 + \frac{4}{845}\sqrt{286}e^5 \otimes e_8$	{1278, 134689, 2456, 3579}
942:13	$0, 0, 0, 0, 0, \frac{4}{337}\sqrt{355}e^{12}, \frac{20}{337}\sqrt{2}e^{13}, \frac{4}{337}\sqrt{570}e^{26},$ $\frac{20}{337}e^{16} + \frac{4}{337}\sqrt{570}e^{45}$	$(-\frac{20}{337}, \frac{18}{337}, \frac{46}{337}, \frac{56}{337}, -\frac{78}{337}, -\frac{2}{337}, \frac{26}{337}, \frac{16}{337}, -\frac{22}{337})$ $+ \frac{4}{337}\sqrt{670}e^4 \otimes e_8 - \frac{4}{337}\sqrt{835}e^2 \otimes e_9$	{12378, 128, 1356789, 15689, 23456, 24567, 349, 479}
942:13	$0, 0, 0, 0, 0, \frac{4}{337}\sqrt{355}e^{12}, \frac{20}{337}\sqrt{2}e^{13}, \frac{4}{337}\sqrt{570}e^{26},$ $\frac{20}{337}e^{16} + \frac{4}{337}\sqrt{570}e^{45}$	$(-\frac{20}{337}, \frac{18}{337}, \frac{46}{337}, \frac{56}{337}, -\frac{78}{337}, -\frac{2}{337}, \frac{26}{337}, \frac{16}{337}, -\frac{22}{337})$ $+ \frac{4}{337}\sqrt{670}e^4 \otimes e_8 + \frac{4}{337}\sqrt{835}e^2 \otimes e_9$	{12378, 128, 1356789, 15689, 23456, 24567, 349, 479}
942:13	$0, 0, 0, 0, 0, \frac{60}{703}\sqrt{22}e^{12}, \frac{20}{703}\sqrt{902}e^{13}, \frac{40}{703}\sqrt{209}e^{26},$ $\frac{10}{703}\sqrt{19}e^{16} + \frac{10}{703}\sqrt{1177}e^{45}$	$(\frac{65}{703}, -\frac{120}{703}, \frac{375}{703}, \frac{5}{703}, \frac{5}{703}, -\frac{55}{703}, \frac{440}{703}, -\frac{175}{703}, \frac{10}{703})$ $+ \frac{10}{703}\sqrt{6501}e^3 \otimes e_8$	{123469, 13, 1345, 2489, 4568, 68}
942:13	$0, 0, 0, 0, 0, \frac{8}{3795}\sqrt{5494}e^{12}, \frac{8}{3795}\sqrt{34235}e^{13}, \frac{8}{3795}\sqrt{34891}e^{26},$ $\frac{16}{3795}\sqrt{3567}e^{16} + \frac{8}{3795}\sqrt{56621}e^{45}$	$(\frac{16}{759}, -\frac{284}{3795}, \frac{36}{115}, \frac{824}{3795}, -\frac{316}{1265}, -\frac{68}{1265}, \frac{1268}{3795}, -\frac{488}{3795}, -\frac{124}{3795})$ $+ \frac{16}{3795}\sqrt{18163}e^4 \otimes e_8 + \frac{8}{3795}\sqrt{65190}e^3 \otimes e_9$	{124679, 1345, 2589, 3678}
942:13	$0, 0, 0, 0, 0, \frac{11}{296}\sqrt{186}e^{12}, \frac{11}{296}\sqrt{34}e^{13}, \frac{11}{74}\sqrt{6}e^{26},$ $\frac{11}{148}\sqrt{15}e^{16} + \frac{11}{296}\sqrt{3}e^{45}$	$(\frac{33}{592}, \frac{33}{296}, -\frac{209}{592}, \frac{33}{296}, \frac{33}{296}, \frac{99}{592}, -\frac{11}{37}, \frac{165}{592}, \frac{33}{148})$ $+ \frac{11}{148}\sqrt{61}e^1 \otimes e_3 + \frac{33}{296}\sqrt{31}e^2 \otimes e_7$	{145678, 1678, 3457, 37}
942:13	$0, 0, 0, 0, 0, \frac{10}{403}\sqrt{6}e^{12}, \frac{10}{1209}\sqrt{494}e^{13}, \frac{160}{1209}\sqrt{2}e^{26},$ $\frac{10}{1209}\sqrt{22}e^{16} + \frac{10}{1209}\sqrt{151}e^{45}$	$(-\frac{95}{1209}, \frac{30}{403}, \frac{45}{403}, -\frac{25}{403}, -\frac{25}{1209}, -\frac{5}{1209}, \frac{40}{1209}, \frac{85}{1209}, -\frac{100}{1209})$ $+ \frac{10}{1209}\sqrt{555}e^2 \otimes e_7 + \frac{40}{1209}\sqrt{33}e^3 \otimes e_8 - \frac{50}{1209}e^5 \otimes e_4$	{146789, 156789, 3479, 3579}
942:13	$0, 0, 0, 0, 0, \frac{10}{403}\sqrt{6}e^{12}, \frac{10}{1209}\sqrt{494}e^{13}, \frac{160}{1209}\sqrt{2}e^{26},$ $\frac{10}{1209}\sqrt{22}e^{16} + \frac{10}{1209}\sqrt{151}e^{45}$	$(-\frac{95}{1209}, \frac{30}{403}, \frac{45}{403}, -\frac{25}{403}, -\frac{25}{1209}, -\frac{5}{1209}, \frac{40}{1209}, \frac{85}{1209}, -\frac{100}{1209})$ $+ \frac{10}{1209}\sqrt{555}e^2 \otimes e_7 + \frac{40}{1209}\sqrt{33}e^3 \otimes e_8 + \frac{50}{1209}e^5 \otimes e_4$	{146789, 156789, 3479, 3579}
942:13	$0, 0, 0, 0, 0, \frac{15}{592}\sqrt{6}e^{12}, \frac{5}{592}\sqrt{494}e^{13}, \frac{5}{37}\sqrt{2}e^{26},$ $\frac{5}{148}\sqrt{22}e^{16} + \frac{5}{592}\sqrt{151}e^{45}$	$(-\frac{95}{1184}, \frac{45}{592}, \frac{135}{1184}, -\frac{25}{592}, -\frac{25}{592}, -\frac{5}{1184}, \frac{5}{148}, \frac{85}{1184}, -\frac{25}{296})$ $+ \frac{5}{148}\sqrt{33}e^3 \otimes e_8 + \frac{5}{592}\sqrt{555}e^2 \otimes e_7$	{146789, 3479}
942:13	$0, 0, 0, 0, 0, \frac{22}{1553}\sqrt{155}e^{12}, \frac{22}{1553}\sqrt{406}e^{13}, \frac{22}{1553}\sqrt{685}e^{26},$ $\frac{22}{1553}\sqrt{467}e^{16} + \frac{22}{1553}\sqrt{437}e^{45}$	$(\frac{33}{1553}, \frac{66}{1553}, -\frac{209}{1553}, -\frac{275}{1553}, \frac{407}{1553}, \frac{99}{1553}, -\frac{176}{1553}, \frac{165}{1553}, \frac{132}{1553})$ $+ \frac{22}{1553}\sqrt{35}e^1 \otimes e_3 + \frac{22}{1553}\sqrt{682}e^5 \otimes e_8 + \frac{44}{1553}\sqrt{186}e^2 \otimes e_7$	{1238, 2456}
942:13	$0, 0, 0, 0, 0, \frac{48}{3515}\sqrt{334}e^{12}, \frac{48}{3515}\sqrt{1159}e^{13}, \frac{144}{3515}\sqrt{91}e^{26},$ $\frac{96}{3515}\sqrt{74}e^{16} + \frac{144}{3515}\sqrt{77}e^{45}$	$(-\frac{768}{3515}, \frac{1008}{3515}, \frac{624}{3515}, -\frac{264}{3515}, -\frac{264}{3515}, \frac{48}{703}, -\frac{144}{3515}, \frac{1248}{3515}, -\frac{528}{3515})$ $+ \frac{48}{3515}\sqrt{1354}e^3 \otimes e_9 + \frac{96}{3515}\sqrt{433}e^2 \otimes e_7$	{123458, 1238, 146789}
942:13	$0, 0, 0, 0, 0, \frac{1}{264}\sqrt{2490}e^{12}, \frac{1}{132}\sqrt{4565}e^{13}, \frac{1}{132}\sqrt{249}e^{26},$ $\frac{1}{264}\sqrt{7802}e^{16} + \frac{1}{264}\sqrt{17430}e^{45}$	$(-\frac{7}{48}, \frac{37}{264}, \frac{21}{44}, \frac{21}{88}, -\frac{103}{264}, -\frac{1}{176}, \frac{175}{528}, \frac{71}{528}, -\frac{5}{33})$ $+ \frac{1}{88}\sqrt{5478}e^3 \otimes e_9 + \frac{83}{132}e^4 \otimes e_5$	{1479, 1579, 4689, 5689}
942:13	$0, 0, 0, 0, 0, \frac{72}{4547}\sqrt{158}e^{12}, \frac{24}{4547}\sqrt{5505}e^{13}, \frac{24}{4547}\sqrt{897}e^{26},$ $\frac{528}{4547}\sqrt{3}e^{16} + \frac{72}{4547}\sqrt{559}e^{45}$	$(-\frac{464}{4547}, \frac{588}{4547}, \frac{524}{4547}, \frac{924}{4547}, -\frac{1264}{4547}, \frac{124}{4547}, \frac{60}{4547}, \frac{712}{4547}, -\frac{340}{4547})$ $+ \frac{24}{4547}\sqrt{5838}e^3 \otimes e_9 + \frac{48}{4547}\sqrt{1641}e^4 \otimes e_7$	{125679, 1345, 2489, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:13	$0, 0, 0, 0, 0, \frac{1}{155}\sqrt{8277e^{12}}, \frac{1}{155}\sqrt{5162e^{13}}, \frac{3}{155}\sqrt{267e^{26}},$ $\frac{1}{155}\sqrt{9879e^{16}} + \frac{3}{155}\sqrt{267e^{45}}$	$(\frac{15}{62}, -\frac{18}{155}, -\frac{103}{310}, \frac{73}{155}, -\frac{16}{155}, \frac{39}{310}, -\frac{14}{155}, \frac{3}{310}, \frac{57}{155})$ $+ \frac{1}{155}\sqrt{16999e^1} \otimes e_3 + \frac{89}{155}e^4 \otimes e_5$	{146, 156, 348, 358}
942:13	$0, 0, 0, 0, 0, \frac{120}{3959}\sqrt{10e^{12}}, \frac{24}{3959}\sqrt{1039e^{13}}, \frac{72}{3959}\sqrt{143e^{26}},$ $\frac{48}{3959}\sqrt{185e^{16}} + \frac{792}{3959}e^{45}$	$(-\frac{192}{3959}, \frac{252}{3959}, \frac{156}{3959}, -\frac{732}{3959}, \frac{600}{3959}, \frac{60}{3959}, -\frac{36}{3959}, \frac{312}{3959}, -\frac{132}{3959})$ $+ \frac{144}{3959}\sqrt{37e^5} \otimes e_8 + \frac{24}{3959}\sqrt{838e^3} \otimes e_9 + \frac{48}{3959}\sqrt{358e^2} \otimes e_7$	{1238, 146789}
942:13	$0, 0, 0, 0, 0, \frac{8}{859}\sqrt{435e^{12}}, \frac{4}{859}\sqrt{6285e^{13}}, \frac{12}{859}\sqrt{415e^{26}},$ $\frac{12}{859}\sqrt{470e^{16}} + \frac{12}{859}\sqrt{415e^{45}}$	$(\frac{50}{859}, -\frac{62}{859}, \frac{46}{859}, \frac{216}{859}, -\frac{178}{859}, -\frac{12}{859}, \frac{96}{859}, \frac{74}{859}, \frac{38}{859})$ $+ \frac{4}{859}\sqrt{5910e^3} \otimes e_8 + \frac{4}{859}\sqrt{5910e^4} \otimes e_7$	{123469, 1345, 2489, 4568}
942:13	$0, 0, 0, 0, 0, \frac{2}{221}\sqrt{8277e^{12}}, \frac{2}{221}\sqrt{5162e^{13}}, \frac{6}{221}\sqrt{267e^{26}},$ $\frac{2}{221}\sqrt{9879e^{16}} + \frac{6}{221}\sqrt{267e^{45}}$	$(\frac{75}{221}, -\frac{36}{221}, -\frac{103}{221}, \frac{57}{221}, \frac{57}{221}, \frac{3}{17}, -\frac{28}{221}, \frac{3}{221}, \frac{114}{221})$ $+ \frac{2}{221}\sqrt{16999e^1} \otimes e_3$	{12459, 129, 146, 2345689, 23689, 348}
942:13	$0, 0, 0, 0, 0, \frac{1}{120}\sqrt{194e^{12}}, \frac{1}{120}\sqrt{3395e^{13}}, \frac{1}{120}\sqrt{9894e^{26}},$ $\frac{1}{120}\sqrt{6402e^{16}} + \frac{1}{120}\sqrt{9894e^{45}}$	$(\frac{7}{24}, -\frac{21}{80}, \frac{1}{40}, \frac{23}{40}, -\frac{61}{240}, \frac{7}{240}, \frac{19}{60}, -\frac{7}{30}, \frac{77}{240})$ $+ \frac{1}{120}\sqrt{19303e^4} \otimes e_8$	{1238, 1278, 135689, 156789, 234567, 2456, 3479, 49}
942:13	$0, 0, 0, 0, 0, \frac{2}{145}\sqrt{1271e^{12}}, \frac{2}{145}\sqrt{410e^{13}}, \frac{2}{145}\sqrt{861e^{26}},$ $\frac{2}{145}\sqrt{697e^{16}} + \frac{2}{145}\sqrt{861e^{45}}$	$(\frac{9}{29}, -\frac{34}{145}, -\frac{37}{145}, \frac{59}{145}, -\frac{3}{145}, \frac{11}{145}, \frac{8}{145}, -\frac{23}{145}, \frac{56}{145})$ $+ \frac{2}{145}\sqrt{2542e^4} \otimes e_8 + \frac{2}{145}\sqrt{2665e^1} \otimes e_3$	{12589, 168, 23469, 345}
942:13	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29e^{12}}, \frac{10}{169}\sqrt{19e^{13}}, \frac{10}{169}\sqrt{57e^{26}},$ $\frac{10}{169}\sqrt{2e^{16}} + \frac{60}{169}e^{45}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{5}{13}, -\frac{15}{169}, -\frac{15}{169}, -\frac{5}{169}, \frac{40}{169}, \frac{15}{169}, -\frac{30}{169})$ $+ \frac{10}{169}\sqrt{85e^2} \otimes e_9 + \frac{30}{169}\sqrt{7e^3} \otimes e_8$	{124578, 1278, 146789, 234567, 2367, 3479}
942:13	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29e^{12}}, \frac{10}{169}\sqrt{19e^{13}}, \frac{10}{169}\sqrt{57e^{26}},$ $\frac{10}{169}\sqrt{2e^{16}} + \frac{60}{169}e^{45}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{5}{13}, -\frac{15}{169}, -\frac{15}{169}, -\frac{5}{169}, \frac{40}{169}, \frac{15}{169}, -\frac{30}{169})$ $- \frac{10}{169}\sqrt{85e^2} \otimes e_9 + \frac{30}{169}\sqrt{7e^3} \otimes e_8$	{124578, 1278, 146789, 234567, 2367, 3479}
942:13	$0, 0, 0, 0, 0, \frac{48}{4091}\sqrt{334e^{12}}, \frac{48}{4091}\sqrt{1159e^{13}}, \frac{144}{4091}\sqrt{91e^{26}},$ $\frac{96}{4091}\sqrt{74e^{16}} + \frac{144}{4091}\sqrt{77e^{45}}$	$(-\frac{768}{4091}, \frac{1008}{4091}, \frac{624}{4091}, -\frac{840}{4091}, \frac{312}{4091}, \frac{240}{4091}, -\frac{144}{4091}, \frac{1248}{4091}, -\frac{528}{4091})$ $+ \frac{1152}{4091}e^5 \otimes e_4 + \frac{48}{4091}\sqrt{1354e^3} \otimes e_9 + \frac{96}{4091}\sqrt{433e^2} \otimes e_7$	{146789, 156789}
942:13	$0, 0, 0, 0, 0, \frac{60}{703}\sqrt{22e^{12}}, \frac{20}{703}\sqrt{902e^{13}}, \frac{10}{703}\sqrt{1177e^{26}},$ $\frac{110}{703}\sqrt{19e^{16}} + \frac{40}{703}\sqrt{209e^{45}}$	$(\frac{65}{703}, \frac{77}{703}, -\frac{216}{703}, \frac{21}{703}, -\frac{192}{703}, \frac{142}{703}, -\frac{151}{703}, \frac{219}{703}, \frac{207}{703})$ $+ \frac{10}{703}\sqrt{6501e^4} \otimes e_7$	{123469, 125679, 1345, 17, 235789, 2489, 3678, 4568}
942:13	$0, 0, 0, 0, 0, \frac{10}{163}\sqrt{22e^{12}}, \frac{10}{489}\sqrt{902e^{13}}, \frac{20}{489}\sqrt{209e^{26}},$ $\frac{55}{489}\sqrt{19e^{16}} + \frac{4}{489}\sqrt{1177e^{45}}$	$(\frac{65}{978}, -\frac{20}{163}, \frac{125}{326}, \frac{140}{489}, -\frac{45}{163}, -\frac{55}{978}, \frac{220}{489}, -\frac{175}{978}, \frac{5}{489})$ $+ \frac{275}{489}e^4 \otimes e_5 + \frac{5}{489}\sqrt{6501e^3} \otimes e_8$	{123469, 123569, 2489, 2589}
942:13	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{29e^{12}}, \frac{5}{97}\sqrt{19e^{13}}, \frac{5}{97}\sqrt{57e^{26}},$ $\frac{5}{97}\sqrt{2e^{16}} + \frac{30}{97}e^{45}$	$(-\frac{25}{194}, \frac{10}{97}, \frac{65}{194}, -\frac{20}{97}, \frac{5}{97}, -\frac{5}{194}, \frac{20}{97}, \frac{15}{194}, -\frac{15}{97})$ $+ \frac{15}{97}\sqrt{7e^3} \otimes e_8 + \frac{25}{97}e^5 \otimes e_4 - \frac{5}{97}\sqrt{85e^2} \otimes e_9$	{146789, 156789, 3479, 3579}
942:13	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{29e^{12}}, \frac{5}{97}\sqrt{19e^{13}}, \frac{5}{97}\sqrt{57e^{26}},$ $\frac{5}{97}\sqrt{2e^{16}} + \frac{30}{97}e^{45}$	$(-\frac{25}{194}, \frac{10}{97}, \frac{65}{194}, -\frac{20}{97}, \frac{5}{97}, -\frac{5}{194}, \frac{20}{97}, \frac{15}{194}, -\frac{15}{97})$ $+ \frac{15}{97}\sqrt{7e^3} \otimes e_8 + \frac{25}{97}e^5 \otimes e_4 + \frac{5}{97}\sqrt{85e^2} \otimes e_9$	{146789, 156789, 3479, 3579}
942:13	$0, 0, 0, 0, 0, \frac{4}{1255}\sqrt{18042e^{12}}, \frac{4}{1255}\sqrt{13483e^{13}}, \frac{4}{1255}\sqrt{1455e^{26}},$ $\frac{4}{1255}\sqrt{11058e^{16}} + \frac{4}{1255}\sqrt{19497e^{45}}$	$(\frac{258}{1255}, -\frac{42}{1255}, -\frac{518}{1255}, \frac{516}{1255}, -\frac{42}{1255}, \frac{216}{1255}, -\frac{52}{1255}, \frac{174}{1255}, \frac{474}{1255})$ $+ \frac{12}{1255}\sqrt{6014e^4} \otimes e_7 + \frac{4}{1255}\sqrt{52186e^1} \otimes e_3$	{125789, 1678, 235679, 37}
942:13	$0, 0, 0, 0, 0, \frac{4}{647}\sqrt{310e^{12}}, \frac{4}{647}\sqrt{523e^{13}}, \frac{4}{647}\sqrt{399e^{26}},$ $\frac{4}{647}\sqrt{638e^{16}} + \frac{12}{647}\sqrt{65e^{45}}$	$(\frac{18}{647}, -\frac{26}{647}, \frac{10}{647}, \frac{36}{647}, -\frac{26}{647}, -\frac{8}{647}, \frac{28}{647}, -\frac{34}{647}, \frac{10}{647})$ $+ \frac{12}{647}\sqrt{62e^4} \otimes e_7 + \frac{16}{647}\sqrt{31e^5} \otimes e_8 + \frac{4}{647}\sqrt{470e^1} \otimes e_3$	{1345, 2489}
942:14	$0, 0, 0, 0, 0, \frac{4}{1565}\sqrt{105781e^{12}}, \frac{1}{1565}\sqrt{232986e^{34}}, \frac{91}{1565}\sqrt{206e^{16}},$ $\frac{1}{1565}\sqrt{886418e^{15}} + \frac{1}{1565}\sqrt{40170e^{26}}$	$(\frac{627}{1565}, -\frac{356}{1565}, \frac{174}{1565}, \frac{174}{1565}, -\frac{712}{1565}, \frac{271}{1565}, \frac{348}{1565}, \frac{898}{1565}, -\frac{17}{313})$ $+ \frac{4}{1565}\sqrt{218257e^1} \otimes e_5$	{12348, 12378, 128, 1346, 1367, 16}
942:14	$0, 0, 0, 0, 0, \frac{92}{2807}\sqrt{165e^{12}}, \frac{138}{2807}\sqrt{66e^{34}}, \frac{92}{2807}\sqrt{33e^{16}},$ $\frac{138}{2807}\sqrt{22e^{15}} + \frac{92}{2807}\sqrt{154e^{26}}$	$(-\frac{276}{2807}, \frac{506}{2807}, \frac{253}{2807}, -\frac{115}{401}, \frac{1012}{2807}, \frac{230}{2807}, -\frac{552}{2807}, -\frac{46}{2807}, \frac{736}{2807})$ $+ \frac{1058}{2807}e^3 \otimes e_4 + \frac{184}{2807}\sqrt{31e^5} \otimes e_8 + \frac{92}{2807}\sqrt{366e^2} \otimes e_7$	{135679, 145679, 357, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:14	$0, 0, 0, 0, 0, \frac{92}{2807}\sqrt{165}e^{12}, \frac{138}{2807}\sqrt{66}e^{34}, \frac{92}{2807}\sqrt{33}e^{16},$ $\frac{138}{2807}\sqrt{22}e^{15} + \frac{92}{2807}\sqrt{154}e^{26}$	$(-\frac{276}{2807}, \frac{506}{2807}, \frac{253}{2807}, -\frac{115}{401}, \frac{1012}{2807}, \frac{230}{2807}, -\frac{552}{2807}, -\frac{46}{2807}, \frac{736}{2807})$ $+\frac{1058}{2807}e^3 \otimes e_4 - \frac{184}{2807}\sqrt{31}e^5 \otimes e_8 + \frac{92}{2807}\sqrt{366}e^2 \otimes e_7$	{135679, 145679, 357, 457}
942:14	$0, 0, 0, 0, 0, \frac{28}{87}\sqrt{3}e^{12}, \frac{7}{87}\sqrt{58}e^{34}, \frac{7}{29}\sqrt{6}e^{16},$ $\frac{7}{87}\sqrt{30}e^{15} + \frac{7}{29}\sqrt{2}e^{26}$	$(\frac{7}{29}, 0, -\frac{14}{87}, -\frac{14}{87}, 0, \frac{7}{29}, -\frac{28}{87}, \frac{14}{29}, \frac{7}{29})$ $+\frac{28}{29}e^1 \otimes e_7$	{123458, 1258, 13456, 156, 2356789, 3579}
942:14	$0, 0, 0, 0, 0, \frac{7}{382}\sqrt{34}e^{12}, \frac{7}{573}\sqrt{382}e^{34}, \frac{7}{191}\sqrt{3}e^{16},$ $\frac{7}{191}\sqrt{35}e^{15} + \frac{7}{573}\sqrt{78}e^{26}$	$(-\frac{21}{191}, \frac{14}{191}, -\frac{35}{573}, \frac{70}{573}, \frac{28}{191}, -\frac{7}{191}, \frac{35}{573}, -\frac{28}{191}, \frac{7}{191})$ $+\frac{7}{1146}\sqrt{1590}e^5 \otimes e_7 + \frac{7}{1146}\sqrt{906}e^3 \otimes e_8 + \frac{7}{382}\sqrt{194}e^4 \otimes e_9$	{1345, 2589}
942:14	$0, 0, 0, 0, 0, \frac{76}{1129}\sqrt{15}e^{12}, \frac{608}{1129}e^{34}, \frac{114}{1129}\sqrt{5}e^{16},$ $\frac{114}{1129}\sqrt{34}e^{15} + \frac{114}{1129}\sqrt{5}e^{26}$	$(-\frac{75}{1129}, \frac{231}{1129}, \frac{231}{1129}, -\frac{491}{1129}, \frac{462}{1129}, \frac{156}{1129}, -\frac{260}{1129}, \frac{81}{1129}, \frac{387}{1129})$ $-\frac{38}{1129}\sqrt{642}e^5 \otimes e_7 + \frac{722}{1129}e^3 \otimes e_4$	{1236789, 1246789, 1379, 1479, 2378, 2478, 367, 467}
942:14	$0, 0, 0, 0, 0, \frac{76}{1129}\sqrt{15}e^{12}, \frac{608}{1129}e^{34}, \frac{114}{1129}\sqrt{5}e^{16},$ $\frac{114}{1129}\sqrt{34}e^{15} + \frac{114}{1129}\sqrt{5}e^{26}$	$(-\frac{75}{1129}, \frac{231}{1129}, \frac{231}{1129}, -\frac{491}{1129}, \frac{462}{1129}, \frac{156}{1129}, -\frac{260}{1129}, \frac{81}{1129}, \frac{387}{1129})$ $+\frac{38}{1129}\sqrt{642}e^5 \otimes e_7 + \frac{722}{1129}e^3 \otimes e_4$	{1236789, 1246789, 1379, 1479, 2378, 2478, 367, 467}
942:14	$0, 0, 0, 0, 0, \frac{14}{659}\sqrt{91}e^{12}, \frac{7}{1977}\sqrt{9226}e^{34}, \frac{7}{1977}\sqrt{2730}e^{16},$ $\frac{7}{659}\sqrt{742}e^{15} + \frac{7}{659}\sqrt{182}e^{26}$	$(\frac{91}{659}, -\frac{42}{659}, \frac{364}{1977}, \frac{434}{1977}, -\frac{84}{659}, \frac{49}{1977}, -\frac{70}{1977}, \frac{140}{659}, \frac{7}{659})$ $+\frac{14}{659}\sqrt{371}e^1 \otimes e_7 + \frac{98}{1977}\sqrt{57}e^3 \otimes e_9$	{1289, 169, 23678, 37}
942:14	$0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{1426}e^{12}, \frac{2}{3777}\sqrt{897667}e^{34}, \frac{2}{3777}\sqrt{228873}e^{16},$ $\frac{2}{1259}\sqrt{39215}e^{15} + \frac{2}{1259}\sqrt{4278}e^{26}$	$(-\frac{119}{1259}, -\frac{9}{1259}, \frac{685}{3777}, \frac{1015}{3777}, -\frac{18}{1259}, -\frac{128}{1259}, \frac{1700}{3777}, -\frac{247}{1259}, -\frac{137}{1259})$ $+\frac{2}{1259}\sqrt{119071}e^3 \otimes e_8 + \frac{2}{3777}\sqrt{1306929}e^4 \otimes e_9$	{123456, 14578, 23579, 5689}
942:14	$0, 0, 0, 0, 0, \frac{4}{1145}\sqrt{13354}e^{12}, \frac{1}{1145}\sqrt{280434}e^{34}, \frac{11}{1145}\sqrt{1214}e^{16},$ $\frac{1}{1145}\sqrt{93478}e^{15} + \frac{1}{1145}\sqrt{200310}e^{26}$	$(\frac{231}{1145}, -\frac{188}{1145}, \frac{462}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{43}{1145}, \frac{384}{1145}, \frac{274}{1145}, -\frac{29}{229})$ $+\frac{2}{1145}\sqrt{137182}e^1 \otimes e_5 + \frac{6}{1145}\sqrt{18210}e^3 \otimes e_9$	{124789, 1289, 14679, 169}
942:14	$0, 0, 0, 0, 0, \frac{8}{4469}\sqrt{105781}e^{12}, \frac{2}{4469}\sqrt{232986}e^{34}, \frac{182}{4469}\sqrt{206}e^{16},$ $\frac{2}{4469}\sqrt{886418}e^{15} + \frac{2}{4469}\sqrt{40170}e^{26}$	$(\frac{1254}{4469}, -\frac{712}{4469}, \frac{1687}{4469}, -\frac{991}{4469}, \frac{1424}{4469}, \frac{542}{4469}, \frac{696}{4469}, \frac{1796}{4469}, -\frac{170}{4469})$ $+\frac{2678}{4469}e^3 \otimes e_4 + \frac{8}{4469}\sqrt{218257}e^1 \otimes e_5$	{12378, 12478, 1367, 1467}
942:14	$0, 0, 0, 0, 0, \frac{38}{3961}\sqrt{1627}e^{12}, \frac{38}{3961}\sqrt{822}e^{34}, \frac{38}{3961}\sqrt{641}e^{16},$ $\frac{76}{3961}\sqrt{230}e^{15} + \frac{38}{3961}\sqrt{915}e^{26}$	$(\frac{570}{3961}, -\frac{76}{3961}, -\frac{399}{3961}, -\frac{399}{3961}, -\frac{152}{3961}, \frac{494}{3961}, -\frac{798}{3961}, \frac{1064}{3961}, \frac{418}{3961})$ $+\frac{114}{3961}\sqrt{227}e^2 \otimes e_7 + \frac{38}{3961}\sqrt{1495}e^1 \otimes e_5$	{234568, 2568, 357}
942:14	$0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1195}e^{12}, \frac{1}{1581}\sqrt{1259530}e^{34}, \frac{1}{1581}\sqrt{523410}e^{16},$ $\frac{1}{527}\sqrt{126670}e^{15} + \frac{7}{527}\sqrt{2390}e^{26}$	$(\frac{25}{527}, -\frac{36}{527}, \frac{2}{3}, -\frac{266}{1581}, -\frac{72}{527}, -\frac{11}{527}, \frac{788}{1581}, \frac{14}{527}, -\frac{47}{527})$ $+\frac{20}{1581}\sqrt{7887}e^3 \otimes e_9$	{1234568, 1235678, 1345, 1357, 245789, 2589, 45679, 569}
942:14	$0, 0, 0, 0, 0, \frac{2}{1699}\sqrt{21835}e^{12}, \frac{2}{5097}\sqrt{674503}e^{34}, \frac{2}{5097}\sqrt{270357}e^{16},$ $\frac{2}{5097}\sqrt{756285}e^{15} + \frac{2}{1699}\sqrt{24614}e^{26}$	$(-\frac{103}{1699}, \frac{119}{1699}, \frac{1199}{5097}, -\frac{1279}{5097}, \frac{238}{1699}, \frac{16}{1699}, -\frac{80}{5097}, -\frac{87}{1699}, \frac{135}{1699})$ $+\frac{2}{5097}\sqrt{873003}e^5 \otimes e_7 + \frac{2}{5097}\sqrt{983766}e^3 \otimes e_9$	{1234568, 1345, 2589, 569}
942:14	$0, 0, 0, 0, 0, \frac{2}{3865}\sqrt{211731}e^{12}, \frac{4}{3865}\sqrt{159393}e^{34}, \frac{8}{3865}\sqrt{4758}e^{16},$ $\frac{12}{3865}\sqrt{26962}e^{15} + \frac{52}{3865}\sqrt{427}e^{26}$	$(-\frac{126}{773}, \frac{326}{3865}, \frac{1608}{3865}, -\frac{381}{3865}, \frac{652}{3865}, -\frac{304}{3865}, \frac{1227}{3865}, -\frac{934}{3865}, \frac{22}{3865})$ $+\frac{2}{3865}\sqrt{1152229}e^5 \otimes e_8 + \frac{78}{3865}\sqrt{1037}e^3 \otimes e_9$	{123456, 123567, 24579, 259}
942:14	$0, 0, 0, 0, 0, \frac{168}{2609}\sqrt{10}e^{12}, \frac{42}{2609}\sqrt{254}e^{34}, \frac{42}{2609}\sqrt{362}e^{16},$ $\frac{42}{2609}\sqrt{282}e^{15} + \frac{21}{2609}\sqrt{695}e^{26}$	$(-\frac{84}{2609}, \frac{273}{2609}, -\frac{42}{2609}, -\frac{483}{2609}, \frac{546}{2609}, \frac{189}{2609}, -\frac{525}{2609}, \frac{105}{2609}, \frac{462}{2609})$ $+\frac{21}{2609}\sqrt{1729}e^5 \otimes e_8 + \frac{21}{2609}\sqrt{2557}e^1 \otimes e_7 + \frac{441}{2609}e^3 \otimes e_4$	{3579, 4579}
942:14	$0, 0, 0, 0, 0, \frac{14}{1411}\sqrt{403}e^{12}, \frac{2}{4233}\sqrt{306187}e^{34}, \frac{16}{4233}\sqrt{1302}e^{16},$ $\frac{14}{1411}\sqrt{31}e^{15} + \frac{2}{4233}\sqrt{329406}e^{26}$	$(-\frac{23}{1411}, \frac{61}{1411}, \frac{43}{249}, -\frac{982}{4233}, \frac{122}{1411}, \frac{38}{1411}, -\frac{251}{4233}, \frac{15}{1411}, \frac{99}{1411})$ $+\frac{2}{4233}\sqrt{371721}e^3 \otimes e_9 + \frac{2}{4233}\sqrt{453747}e^2 \otimes e_7$	{129, 146789, 2346, 378}
942:14	$0, 0, 0, 0, 0, \frac{4}{4093}\sqrt{280893}e^{12}, \frac{14}{4093}\sqrt{18898}e^{34}, \frac{12}{4093}\sqrt{859}e^{16},$ $\frac{2}{4093}\sqrt{592710}e^{15} + \frac{4}{4093}\sqrt{283470}e^{26}$	$(-\frac{60}{4093}, \frac{606}{4093}, \frac{303}{4093}, -\frac{1415}{4093}, \frac{1212}{4093}, \frac{546}{4093}, -\frac{1112}{4093}, \frac{486}{4093}, \frac{1152}{4093})$ $+\frac{1718}{4093}e^3 \otimes e_4 + \frac{4}{4093}\sqrt{582402}e^2 \otimes e_7$	{1356789, 1456789, 3578, 4578}
942:14	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{546}e^{12}, \frac{1}{393}\sqrt{23842}e^{34}, \frac{2}{131}\sqrt{273}e^{16},$ $\frac{1}{393}\sqrt{12558}e^{15} + \frac{2}{131}\sqrt{455}e^{26}$	$(-\frac{16}{131}, \frac{19}{131}, \frac{52}{393}, -\frac{86}{393}, \frac{38}{131}, \frac{3}{131}, -\frac{34}{393}, -\frac{13}{131}, \frac{22}{131})$ $+\frac{14}{393}\sqrt{195}e^2 \otimes e_7 + \frac{2}{393}\sqrt{6279}e^3 \otimes e_8$	{12589, 135679, 2568, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:14	$0, 0, 0, 0, 0, \frac{2}{1617}\sqrt{280893e^{12}}, \frac{1}{231}\sqrt{18898e^{34}}, \frac{2}{539}\sqrt{859e^{16}},$ $\frac{1}{1617}\sqrt{592710e^{15}} + \frac{1}{1617}\sqrt{283470e^{26}}$	$(-\frac{10}{539}, \frac{101}{539}, -\frac{278}{1617}, -\frac{278}{1617}, \frac{202}{539}, \frac{13}{77}, -\frac{556}{1617}, \frac{81}{539}, \frac{192}{539})$ $+ \frac{2}{1617}\sqrt{582402e^2} \otimes e_7$	{123459, 1259, 1356789, 23456, 256, 3578}
942:14	$0, 0, 0, 0, 0, \frac{2}{531}\sqrt{11431e^{12}}, \frac{1}{531}\sqrt{175938e^{34}}, \frac{2}{177}\sqrt{5467e^{16}},$ $\frac{1}{531}\sqrt{42742e^{15}} + \frac{2}{531}\sqrt{4970e^{26}}$	$(-\frac{106}{531}, \frac{23}{177}, \frac{2}{3}, -\frac{82}{531}, \frac{46}{177}, -\frac{37}{531}, \frac{272}{177}, -\frac{143}{531}, \frac{32}{531})$ $+ \frac{2}{531}\sqrt{108346e^3} \otimes e_8$	{12478, 128, 1346, 1367, 246789, 2689, 349, 379}
942:14	$0, 0, 0, 0, 0, \frac{78}{1403}\sqrt{5e^{12}}, \frac{26}{4209}\sqrt{7015e^{34}}, \frac{26}{1403}\sqrt{355e^{16}},$ $\frac{26}{1403}\sqrt{385e^{15}} + \frac{182}{4209}\sqrt{30e^{26}}$	$(-\frac{267}{1403}, \frac{275}{1403}, \frac{913}{4209}, -\frac{953}{4209}, \frac{550}{1403}, \frac{8}{1403}, -\frac{40}{4209}, -\frac{259}{1403}, \frac{283}{1403})$ $+ \frac{26}{4209}\sqrt{9330e^3} \otimes e_8 + \frac{26}{4209}\sqrt{9465e^5} \otimes e_7$	{123679, 14789, 237, 4678}
942:14	$0, 0, 0, 0, 0, \frac{46}{1139}\sqrt{165e^{12}}, \frac{69}{1139}\sqrt{66e^{34}}, \frac{46}{1139}\sqrt{33e^{16}},$ $\frac{69}{1139}\sqrt{22e^{15}} + \frac{46}{1139}\sqrt{154e^{26}}$	$(-\frac{138}{1139}, \frac{253}{1139}, -\frac{138}{1139}, -\frac{138}{1139}, \frac{506}{1139}, \frac{115}{1139}, -\frac{276}{1139}, -\frac{23}{1139}, \frac{368}{1139})$ $+ \frac{46}{1139}\sqrt{366e^2} \otimes e_7 + \frac{92}{1139}\sqrt{31e^5} \otimes e_8$	{135679, 357}
942:14	$0, 0, 0, 0, 0, \frac{336}{4777}\sqrt{10e^{12}}, \frac{84}{4777}\sqrt{254e^{34}}, \frac{84}{4777}\sqrt{362e^{16}},$ $\frac{84}{4777}\sqrt{282e^{15}} + \frac{42}{4777}\sqrt{695e^{26}}$	$(-\frac{168}{4777}, \frac{546}{4777}, -\frac{525}{4777}, -\frac{525}{4777}, \frac{1092}{4777}, \frac{378}{4777}, -\frac{1050}{4777}, \frac{210}{4777}, \frac{924}{4777})$ $+ \frac{42}{4777}\sqrt{1729e^5} \otimes e_8 + \frac{42}{4777}\sqrt{2557e^1} \otimes e_7$	{13456, 156, 3579}
942:14	$0, 0, 0, 0, 0, \frac{4}{383}\sqrt{1830e^{12}}, \frac{2}{383}\sqrt{7930e^{34}}, \frac{6}{383}\sqrt{610e^{16}},$ $\frac{4}{383}\sqrt{1830e^{15}} + \frac{6}{383}\sqrt{610e^{26}}$	$(\frac{30}{383}, \frac{36}{383}, \frac{357}{383}, -\frac{253}{383}, \frac{72}{383}, \frac{66}{383}, \frac{104}{383}, \frac{96}{383}, \frac{102}{383})$ $+ \frac{610}{383}e^3 \otimes e_4$	{123789, 124789, 13679, 14679, 23678, 24678, 37, 47}
942:14	$0, 0, 0, 0, 0, \frac{2}{4761}\sqrt{789382e^{12}}, \frac{2}{1587}\sqrt{63638e^{34}}, \frac{2}{1587}\sqrt{144878e^{16}},$ $\frac{40}{4761}\sqrt{1354e^{15}} + \frac{2}{4761}\sqrt{146909e^{26}}$	$(\frac{406}{4761}, -\frac{158}{1587}, \frac{188}{529}, -\frac{371}{4761}, -\frac{316}{1587}, -\frac{68}{4761}, \frac{1321}{4761}, \frac{338}{4761}, -\frac{542}{4761})$ $+ \frac{2}{1587}\sqrt{167219e^1} \otimes e_5 + \frac{2}{4761}\sqrt{1396651e^3} \otimes e_8$	{12478, 128, 1346, 1367}
942:14	$0, 0, 0, 0, 0, \frac{184}{5189}\sqrt{30e^{12}}, \frac{138}{5189}\sqrt{94e^{34}}, \frac{23}{5189}\sqrt{858e^{16}},$ $\frac{138}{5189}\sqrt{7e^{15}} + \frac{23}{5189}\sqrt{3586e^{26}}$	$(-\frac{138}{5189}, \frac{253}{5189}, \frac{897}{5189}, -\frac{1173}{5189}, \frac{506}{5189}, \frac{115}{5189}, -\frac{276}{5189}, -\frac{23}{5189}, \frac{368}{5189})$ $+ \frac{138}{5189}\sqrt{115e^3} \otimes e_9 + \frac{23}{5189}\sqrt{226e^5} \otimes e_8 + \frac{23}{5189}\sqrt{4974e^2} \otimes e_7$	{146789, 378}
942:14	$0, 0, 0, 0, 0, \frac{21}{8549}\sqrt{1306e^{12}}, \frac{21}{8549}\sqrt{4346e^{34}}, \frac{42}{8549}\sqrt{695e^{16}},$ $\frac{21}{8549}\sqrt{4458e^{15}} + \frac{42}{8549}\sqrt{362e^{26}}$	$(-\frac{84}{8549}, \frac{273}{8549}, \frac{903}{8549}, \frac{1428}{8549}, \frac{546}{8549}, \frac{189}{8549}, -\frac{525}{8549}, \frac{105}{8549}, \frac{462}{8549})$ $+ \frac{21}{8549}\sqrt{6886e^1} \otimes e_7 + \frac{42}{8549}\sqrt{1015e^5} \otimes e_8 + \frac{63}{8549}\sqrt{518e^3} \otimes e_9$	{13456, 4579}
942:14	$0, 0, 0, 0, 0, \frac{4}{4709}\sqrt{54483e^{12}}, \frac{2}{4709}\sqrt{287274e^{34}}, \frac{4}{4709}\sqrt{351663e^{16}},$ $\frac{6}{4709}\sqrt{168402e^{15}} + \frac{104}{4709}\sqrt{254e^{26}}$	$(-\frac{1116}{4709}, \frac{1070}{4709}, \frac{1999}{4709}, -\frac{1303}{4709}, \frac{2140}{4709}, -\frac{46}{4709}, \frac{696}{4709}, -\frac{1162}{4709}, \frac{1024}{4709})$ $+ \frac{3302}{4709}e^3 \otimes e_4 + \frac{4}{4709}\sqrt{1046734e^5} \otimes e_8$	{13789, 14789, 3678, 4678}
942:14	$0, 0, 0, 0, 0, \frac{2}{1529}\sqrt{54483e^{12}}, \frac{1}{1529}\sqrt{287274e^{34}}, \frac{2}{1529}\sqrt{351663e^{16}},$ $\frac{3}{1529}\sqrt{168402e^{15}} + \frac{52}{1529}\sqrt{254e^{26}}$	$(-\frac{558}{1529}, \frac{535}{1529}, \frac{174}{1529}, \frac{174}{1529}, \frac{1070}{1529}, -\frac{23}{1529}, \frac{348}{1529}, -\frac{581}{1529}, \frac{512}{1529})$ $+ \frac{2}{1529}\sqrt{1046734e^5} \otimes e_8$	{13489, 13789, 189, 3468, 3678, 68}
942:14	$0, 0, 0, 0, 0, \frac{56}{223}\sqrt{3e^{12}}, \frac{14}{223}\sqrt{58e^{34}}, \frac{42}{223}\sqrt{6e^{16}},$ $\frac{14}{223}\sqrt{30e^{15}} + \frac{42}{223}\sqrt{2e^{26}}$	$(\frac{42}{223}, 0, \frac{21}{223}, -\frac{77}{223}, 0, \frac{42}{223}, -\frac{56}{223}, \frac{84}{223}, \frac{42}{223})$ $+ \frac{168}{223}e^1 \otimes e_7 + \frac{98}{223}e^3 \otimes e_4$	{2356789, 2456789, 3579, 4579}
942:14	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{21e^{12}}, \frac{2}{49}\sqrt{7e^{34}}, \frac{2}{147}\sqrt{357e^{16}},$ $\frac{2}{49}\sqrt{7e^{15}} + \frac{2}{147}\sqrt{105e^{26}}$	$(\frac{1}{49}, \frac{1}{49}, \frac{23}{147}, -\frac{34}{147}, \frac{2}{49}, \frac{2}{49}, -\frac{11}{147}, \frac{3}{49}, \frac{3}{49})$ $+ \frac{10}{147}\sqrt{21e^1} \otimes e_7 + \frac{2}{147}\sqrt{399e^3} \otimes e_8$	{1258, 13456, 2456789, 3579}
942:14	$0, 0, 0, 0, 0, \frac{19}{128}\sqrt{15e^{12}}, \frac{19}{128}\sqrt{e^{34}}, \frac{19}{128}\sqrt{5e^{16}},$ $\frac{19}{128}\sqrt{34e^{15}} + \frac{19}{128}\sqrt{5e^{26}}$	$(-\frac{25}{256}, \frac{77}{256}, -\frac{65}{384}, -\frac{65}{384}, \frac{77}{128}, \frac{13}{64}, -\frac{65}{192}, \frac{27}{256}, \frac{129}{256})$ $+ \frac{19}{384}\sqrt{642e^5} \otimes e_7$	{1236789, 1379, 2378, 367}
942:15	$0, 0, 0, 0, 0, \frac{90}{3581}\sqrt{286e^{12}}, \frac{45}{3581}\sqrt{110e^{13}} + \frac{270}{3581}\sqrt{11e^{24}},$ $\frac{495}{3581}\sqrt{10e^{16}}, \frac{45}{3581}\sqrt{418e^{26}} + \frac{315}{3581}\sqrt{22e^{34}}$	$(-\frac{765}{3581}, \frac{990}{3581}, \frac{1485}{3581}, -\frac{270}{3581}, -\frac{1035}{3581}, \frac{225}{3581}, \frac{720}{3581}, -\frac{540}{3581}, \frac{1215}{3581})$ $+ \frac{90}{3581}\sqrt{751e^2} \otimes e_5 + \frac{90}{3581}\sqrt{806e^3} \otimes e_8$	{13569, 3457}
942:15	$0, 0, 0, 0, 0, \frac{18}{3413}\sqrt{157e^{12}}, \frac{135}{3413}\sqrt{14e^{13}} + \frac{9}{3413}\sqrt{2822e^{24}},$ $\frac{18}{3413}\sqrt{1105e^{16}}, \frac{18}{3413}\sqrt{821e^{26}} + \frac{504}{3413}e^{34}$	$(-\frac{171}{3413}, \frac{180}{3413}, \frac{270}{3413}, -\frac{81}{3413}, -\frac{252}{3413}, \frac{9}{3413}, \frac{99}{3413}, -\frac{162}{3413}, \frac{189}{3413})$ $+ \frac{9}{3413}\sqrt{1030e^1} \otimes e_5 + \frac{9}{3413}\sqrt{5270e^4} \otimes e_8$	{13467, 4579}
942:15	$0, 0, 0, 0, 0, \frac{1}{247}\sqrt{138e^{12}}, \frac{8}{247}\sqrt{6e^{13}} + \frac{12}{247}\sqrt{2e^{24}}, \frac{1}{247}\sqrt{570e^{16}},$ $\frac{1}{19}\sqrt{2e^{26}} + \frac{1}{247}\sqrt{474e^{34}}$	$(-\frac{3}{494}, -\frac{1}{247}, -\frac{3}{494}, -\frac{2}{247}, \frac{21}{247}, -\frac{5}{494}, -\frac{3}{247}, -\frac{4}{247}, -\frac{7}{494})$ $+ \frac{1}{247}\sqrt{670e^4} \otimes e_8 + \frac{3}{247}\sqrt{26e^1} \otimes e_9$	{134567, 13467, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:15	$0, 0, 0, 0, 0, \frac{1}{247}\sqrt{138}e^{12}, \frac{8}{247}\sqrt{6}e^{13} + \frac{12}{247}\sqrt{2}e^{24}, \frac{1}{247}\sqrt{570}e^{16},$ $\frac{1}{19}\sqrt{2}e^{26} + \frac{1}{247}\sqrt{474}e^{34}$	$(-\frac{3}{494}, -\frac{1}{247}, -\frac{3}{494}, -\frac{2}{247}, \frac{21}{247}, -\frac{5}{494}, -\frac{3}{247}, -\frac{4}{247}, -\frac{7}{494})$ $+ \frac{1}{247}\sqrt{670}e^4 \otimes e_8 - \frac{3}{247}\sqrt{26}e^1 \otimes e_9$	{134567, 13467, 4579, 479}
942:15	$0, 0, 0, 0, 0, \frac{6}{151}\sqrt{51}e^{12}, \frac{6}{151}\sqrt{145}e^{13} + \frac{6}{151}\sqrt{69}e^{24}, \frac{6}{151}\sqrt{87}e^{16},$ $\frac{6}{151}\sqrt{53}e^{26} + \frac{48}{151}e^{34}$	$(-\frac{30}{151}, \frac{24}{151}, \frac{36}{151}, -\frac{18}{151}, \frac{78}{151}, -\frac{6}{151}, \frac{6}{151}, -\frac{36}{151}, \frac{18}{151})$ $+ \frac{12}{151}\sqrt{73}e^3 \otimes e_8 + \frac{6}{151}\sqrt{251}e^5 \otimes e_7$	{14789, 568}
942:15	$0, 0, 0, 0, 0, \frac{3}{298}\sqrt{58}e^{12}, \frac{3}{298}\sqrt{694}e^{13} + \frac{3}{298}\sqrt{618}e^{24}, \frac{3}{298}\sqrt{854}e^{16},$ $\frac{3}{298}\sqrt{674}e^{26} + \frac{27}{149}\sqrt{2}e^{34}$	$(-\frac{15}{149}, \frac{12}{149}, \frac{18}{149}, -\frac{9}{149}, \frac{12}{149}, -\frac{3}{149}, \frac{3}{149}, -\frac{18}{149}, \frac{9}{149})$ $+ \frac{3}{149}\sqrt{274}e^4 \otimes e_8 + \frac{3}{298}\sqrt{2}e^5 \otimes e_7$	{134567, 4579}
942:15	$0, 0, 0, 0, 0, \frac{11}{375}\sqrt{10}e^{12}, \frac{22}{375}\sqrt{21}e^{13} + \frac{22}{375}\sqrt{31}e^{24}, \frac{22}{375}\sqrt{58}e^{16},$ $\frac{154}{375}e^{26} + \frac{11}{375}\sqrt{302}e^{34}$	$(-\frac{44}{375}, \frac{22}{125}, \frac{33}{125}, -\frac{11}{375}, -\frac{44}{125}, \frac{22}{375}, \frac{11}{75}, -\frac{22}{375}, \frac{88}{375})$ $+ \frac{11}{375}\sqrt{334}e^4 \otimes e_5 + \frac{11}{375}\sqrt{346}e^3 \otimes e_8$	{13467, 359}
942:15	$0, 0, 0, 0, 0, \frac{4}{2231}\sqrt{303}e^{12}, \frac{12}{2231}\sqrt{23735}e^{13} + \frac{52}{2231}\sqrt{606}e^{24},$ $\frac{8}{2231}\sqrt{10605}e^{16}, \frac{4}{2231}\sqrt{25755}e^{26} + \frac{4}{2231}\sqrt{179679}e^{34}$	$(-\frac{196}{2231}, \frac{622}{2231}, \frac{933}{2231}, \frac{5}{97}, -\frac{1491}{2231}, \frac{426}{2231}, \frac{737}{2231}, \frac{10}{97}, \frac{1048}{2231})$ $+ \frac{4}{2231}\sqrt{563883}e^3 \otimes e_5$	{1239, 124579, 23467, 256}
942:15	$0, 0, 0, 0, 0, \frac{10}{469}\sqrt{1254}e^{12}, \frac{2}{469}\sqrt{14630}e^{13} + \frac{2}{469}\sqrt{10659}e^{24},$ $\frac{4}{469}\sqrt{7106}e^{16}, \frac{6}{469}\sqrt{209}e^{26} + \frac{4}{469}\sqrt{1254}e^{34}$	$(\frac{113}{469}, -\frac{8}{469}, -\frac{12}{469}, \frac{109}{469}, \frac{305}{469}, \frac{15}{67}, \frac{101}{469}, \frac{218}{469}, \frac{97}{469})$ $+ \frac{6}{469}\sqrt{8987}e^1 \otimes e_5$	{1346, 167, 3579, 459}
942:15	$0, 0, 0, 0, 0, \frac{6}{2273}\sqrt{36043}e^{12}, \frac{12}{2273}\sqrt{266}e^{13} + \frac{6}{2273}\sqrt{55195}e^{24},$ $\frac{12}{2273}\sqrt{3458}e^{16}, \frac{6}{2273}\sqrt{94430}e^{26} + \frac{6}{2273}\sqrt{88046}e^{34}$	$(\frac{231}{2273}, -\frac{176}{2273}, -\frac{264}{2273}, \frac{143}{2273}, 1, \frac{55}{2273}, -\frac{33}{2273}, \frac{286}{2273}, -\frac{121}{2273})$ $+ \frac{42}{2273}\sqrt{5111}e^5 \otimes e_9$	{136789, 14689, 3458, 578}
942:15	$0, 0, 0, 0, 0, \frac{50}{999}\sqrt{187}e^{12}, \frac{100}{2997}\sqrt{38}e^{13} + \frac{50}{2997}\sqrt{395}e^{24},$ $\frac{100}{999}\sqrt{14}e^{16}, \frac{50}{999}\sqrt{14}e^{26} + \frac{50}{2997}\sqrt{1038}e^{34}$	$(-\frac{175}{999}, \frac{400}{2997}, \frac{200}{999}, -\frac{325}{2997}, \frac{1525}{2997}, -\frac{125}{2997}, \frac{25}{999}, -\frac{650}{2997}, \frac{275}{2997})$ $+ \frac{400}{2997}\sqrt{23}e^3 \otimes e_8 + \frac{50}{2997}\sqrt{1207}e^5 \otimes e_9$	{124789, 2568}
942:15	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{6767}e^{12}, \frac{3}{133}\sqrt{1541}e^{13} + \frac{3}{133}\sqrt{1273}e^{24}, \frac{1}{133}\sqrt{3417}e^{16},$ $\frac{1}{133}\sqrt{1407}e^{26} + \frac{6}{133}\sqrt{201}e^{34}$	$(\frac{5}{133}, -\frac{4}{133}, -\frac{6}{133}, \frac{3}{133}, 1, \frac{1}{133}, -\frac{1}{133}, \frac{6}{133}, -\frac{3}{133})$ $+ \frac{1}{133}\sqrt{30619}e^5 \otimes e_7$	{135, 147, 34679, 569}
942:15	$0, 0, 0, 0, 0, \frac{16}{2119}\sqrt{102}e^{12}, \frac{16}{2119}\sqrt{1230}e^{13} + \frac{48}{2119}\sqrt{122}e^{24},$ $\frac{16}{2119}\sqrt{1515}e^{16}, \frac{32}{2119}\sqrt{299}e^{26} + \frac{16}{2119}\sqrt{1149}e^{34}$	$(-\frac{213}{2119}, \frac{170}{2119}, \frac{255}{2119}, -\frac{128}{2119}, \frac{174}{2119}, -\frac{43}{2119}, \frac{42}{2119}, -\frac{256}{2119}, \frac{127}{2119})$ $+ \frac{16}{2119}\sqrt{1945}e^4 \otimes e_8$	{134567, 13467, 4579, 479}
942:15	$0, 0, 0, 0, 0, \frac{1}{1153}\sqrt{98634}e^{12}, \frac{2}{1153}\sqrt{51251}e^{13} + \frac{1}{1153}\sqrt{133446}e^{24},$ $\frac{1}{1153}\sqrt{802610}e^{16}, \frac{6}{1153}\sqrt{10637}e^{26} + \frac{2}{1153}\sqrt{211773}e^{34}$	$(-\frac{382}{1153}, \frac{406}{1153}, \frac{609}{1153}, -\frac{179}{1153}, \frac{190}{1153}, \frac{24}{1153}, \frac{227}{1153}, -\frac{358}{1153}, \frac{430}{1153})$ $+ \frac{3}{1153}\sqrt{206938}e^3 \otimes e_8$	{13456, 1346, 3579, 379}
942:15	$0, 0, 0, 0, 0, \frac{6}{277}\sqrt{83}e^{12}, \frac{1}{277}\sqrt{42330}e^{13} + \frac{1}{277}\sqrt{54282}e^{24}, \frac{2}{277}\sqrt{8715}e^{16},$ $\frac{83}{277}\sqrt{6}e^{26} + \frac{4}{277}\sqrt{3486}e^{34}$	$(\frac{51}{277}, \frac{10}{277}, \frac{15}{277}, \frac{56}{277}, -\frac{193}{277}, \frac{61}{277}, \frac{66}{277}, \frac{112}{277}, \frac{71}{277})$ $+ \frac{1}{277}\sqrt{117030}e^4 \otimes e_5$	{13467, 156, 359, 479}
942:15	$0, 0, 0, 0, 0, \frac{2}{567}\sqrt{2001}e^{12}, \frac{1}{567}\sqrt{164082}e^{13} + \frac{2}{567}\sqrt{20677}e^{24},$ $\frac{1}{567}\sqrt{353510}e^{16}, \frac{1}{567}\sqrt{140070}e^{26} + \frac{1}{567}\sqrt{118726}e^{34}$	$(-\frac{95}{567}, \frac{10}{63}, \frac{5}{21}, -\frac{50}{567}, 1, -\frac{5}{567}, \frac{40}{567}, -\frac{100}{567}, \frac{85}{567})$ $+ \frac{2}{567}\sqrt{155411}e^5 \otimes e_8$	{134567, 156, 359, 4579}
942:15	$0, 0, 0, 0, 0, \frac{13}{2849}\sqrt{282}e^{12}, \frac{13}{2849}\sqrt{3210}e^{13} + \frac{39}{2849}\sqrt{314}e^{24},$ $\frac{52}{2849}\sqrt{246}e^{16}, \frac{13}{2849}\sqrt{3062}e^{26} + \frac{26}{2849}\sqrt{762}e^{34}$	$(-\frac{39}{407}, \frac{208}{2849}, \frac{312}{2849}, -\frac{169}{2849}, \frac{312}{2849}, -\frac{65}{2849}, \frac{39}{2849}, -\frac{338}{2849}, \frac{13}{259})$ $+ \frac{117}{2849}\sqrt{2}e^5 \otimes e_9 + \frac{13}{2849}\sqrt{5074}e^4 \otimes e_8$	{134567, 479}
942:15	$0, 0, 0, 0, 0, \frac{13}{2815}\sqrt{262}e^{12}, \frac{26}{2815}\sqrt{794}e^{13} + \frac{52}{2815}\sqrt{178}e^{24},$ $\frac{26}{2815}\sqrt{986}e^{16}, \frac{52}{2815}\sqrt{195}e^{26} + \frac{13}{2815}\sqrt{3026}e^{34}$	$(-\frac{286}{2815}, \frac{234}{2815}, \frac{351}{2815}, -\frac{169}{2815}, \frac{182}{2815}, -\frac{52}{2815}, \frac{13}{2815}, -\frac{338}{2815}, \frac{182}{2815})$ $+ \frac{13}{2815}\sqrt{5078}e^4 \otimes e_8 + \frac{13}{2815}\sqrt{94}e^3 \otimes e_5$	{13467, 4579}
942:15	$0, 0, 0, 0, 0, \frac{14}{389}\sqrt{66}e^{12}, \frac{70}{389}\sqrt{2}e^{13} + \frac{14}{389}\sqrt{39}e^{24}, \frac{112}{389}\sqrt{2}e^{16},$ $\frac{42}{389}\sqrt{5}e^{26} + \frac{28}{389}\sqrt{21}e^{34}$	$(-\frac{35}{389}, \frac{56}{389}, \frac{84}{389}, -\frac{7}{389}, -\frac{133}{389}, \frac{21}{389}, \frac{49}{389}, -\frac{14}{389}, \frac{77}{389})$ $+ \frac{42}{389}\sqrt{19}e^1 \otimes e_5 + \frac{84}{389}\sqrt{5}e^3 \otimes e_8$	{1346, 3579}
942:15	$0, 0, 0, 0, 0, \frac{13}{287}\sqrt{253}e^{12}, \frac{1}{287}\sqrt{9614}e^{13} + \frac{1}{287}\sqrt{26565}e^{24},$ $\frac{1}{287}\sqrt{3795}e^{16}, \frac{1}{287}\sqrt{45034}e^{26} + \frac{5}{287}\sqrt{506}e^{34}$	$(-\frac{3}{82}, \frac{61}{287}, \frac{183}{574}, \frac{20}{287}, -\frac{192}{287}, \frac{101}{574}, \frac{81}{287}, \frac{40}{287}, \frac{223}{574})$ $+ \frac{1}{287}\sqrt{121187}e^2 \otimes e_5$	{13456789, 15689, 358, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:15	$0, 0, 0, 0, 0, \frac{1}{105}\sqrt{78}e^{12}, \frac{2}{105}\sqrt{174}e^{13} + \frac{1}{35}\sqrt{70}e^{24}, \frac{1}{35}\sqrt{94}e^{16},$ $\frac{6}{35}\sqrt{2}e^{26} + \frac{2}{105}\sqrt{159}e^{34}$	$(-\frac{1}{10}, \frac{3}{35}, \frac{9}{70}, -\frac{2}{35}, \frac{1}{35}, -\frac{1}{70}, \frac{1}{35}, -\frac{4}{35}, \frac{1}{14})$ $+\frac{1}{105}\sqrt{66}e^2 \otimes e_5 + \frac{2}{105}\sqrt{273}e^4 \otimes e_8$	{134567, 4579}
942:16	$0, 0, 0, 0, 0, \frac{7}{1121}\sqrt{890}e^{12}, \frac{7}{1121}\sqrt{390}e^{34},$ $\frac{14}{1121}\sqrt{431}e^{16} + \frac{14}{1121}\sqrt{118}e^{35}, \frac{42}{1121}\sqrt{6}e^{26} + \frac{7}{1121}\sqrt{1594}e^{45}$	$(\frac{14}{1121}, -\frac{49}{1121}, \frac{140}{1121}, \frac{77}{1121}, -\frac{161}{1121}, -\frac{35}{1121}, \frac{217}{1121}, -\frac{21}{1121}, -\frac{84}{1121})$ $-\frac{28}{1121}\sqrt{137}e^1 \otimes e_9 + \frac{7}{1121}\sqrt{1814}e^4 \otimes e_8$	{128, 14567, 2356789, 349}
942:16	$0, 0, 0, 0, 0, \frac{7}{1121}\sqrt{890}e^{12}, \frac{7}{1121}\sqrt{390}e^{34},$ $\frac{14}{1121}\sqrt{431}e^{16} + \frac{14}{1121}\sqrt{118}e^{35}, \frac{42}{1121}\sqrt{6}e^{26} + \frac{7}{1121}\sqrt{1594}e^{45}$	$(\frac{14}{1121}, -\frac{49}{1121}, \frac{140}{1121}, \frac{77}{1121}, -\frac{161}{1121}, -\frac{35}{1121}, \frac{217}{1121}, -\frac{21}{1121}, -\frac{84}{1121})$ $+\frac{28}{1121}\sqrt{137}e^1 \otimes e_9 + \frac{7}{1121}\sqrt{1814}e^4 \otimes e_8$	{128, 14567, 2356789, 349}
942:16	$0, 0, 0, 0, 0, \frac{22}{529}\sqrt{10}e^{12}, \frac{22}{529}\sqrt{58}e^{34}, \frac{11}{529}\sqrt{102}e^{16} + \frac{11}{529}\sqrt{181}e^{35},$ $\frac{11}{529}\sqrt{102}e^{26} + \frac{11}{529}\sqrt{181}e^{45}$	$(-\frac{11}{529}, -\frac{11}{529}, \frac{88}{529}, \frac{88}{529}, -\frac{121}{529}, -\frac{22}{529}, \frac{176}{529}, -\frac{33}{529}, -\frac{33}{529})$ $+\frac{11}{529}\sqrt{469}e^3 \otimes e_9 - \frac{11}{529}\sqrt{469}e^4 \otimes e_8$	{12589, 14679, 345}
942:16	$0, 0, 0, 0, 0, \frac{22}{529}\sqrt{10}e^{12}, \frac{22}{529}\sqrt{58}e^{34}, \frac{11}{529}\sqrt{102}e^{16} + \frac{11}{529}\sqrt{181}e^{35},$ $\frac{11}{529}\sqrt{102}e^{26} + \frac{11}{529}\sqrt{181}e^{45}$	$(-\frac{11}{529}, -\frac{11}{529}, \frac{88}{529}, \frac{88}{529}, -\frac{121}{529}, -\frac{22}{529}, \frac{176}{529}, -\frac{33}{529}, -\frac{33}{529})$ $+\frac{11}{529}\sqrt{469}e^3 \otimes e_9 + \frac{11}{529}\sqrt{469}e^4 \otimes e_8$	{12589, 14679, 345}
942:16	$0, 0, 0, 0, 0, \frac{1}{849}\sqrt{59170}e^{12}, \frac{25}{849}\sqrt{366}e^{34},$ $\frac{2}{849}\sqrt{44530}e^{16} + \frac{1}{849}\sqrt{317810}e^{35}, \frac{2}{849}\sqrt{98515}e^{26} + \frac{2}{849}\sqrt{7930}e^{45}$	$(\frac{81}{283}, -\frac{226}{849}, \frac{401}{849}, -\frac{68}{849}, -\frac{47}{849}, \frac{17}{283}, \frac{111}{283}, \frac{260}{849}, -\frac{209}{849})$ $+\frac{1}{849}\sqrt{858270}e^3 \otimes e_9$	{12479, 15689, 23456, 378}
942:16	$0, 0, 0, 0, 0, \frac{6}{341}\sqrt{46}e^{12}, \frac{12}{341}\sqrt{71}e^{34}, \frac{12}{341}\sqrt{43}e^{16} + \frac{6}{341}\sqrt{370}e^{35},$ $\frac{12}{341}\sqrt{71}e^{26} + \frac{6}{341}\sqrt{142}e^{45}$	$(\frac{6}{31}, -\frac{48}{341}, \frac{42}{341}, -\frac{72}{341}, \frac{42}{341}, \frac{18}{341}, \frac{30}{341}, \frac{84}{341}, -\frac{30}{341})$ $+\frac{36}{341}\sqrt{19}e^3 \otimes e_9 - \frac{6}{341}\sqrt{542}e^5 \otimes e_7$	{12479, 15689, 23456, 378}
942:16	$0, 0, 0, 0, 0, \frac{6}{341}\sqrt{46}e^{12}, \frac{12}{341}\sqrt{71}e^{34}, \frac{12}{341}\sqrt{43}e^{16} + \frac{6}{341}\sqrt{370}e^{35},$ $\frac{12}{341}\sqrt{71}e^{26} + \frac{6}{341}\sqrt{142}e^{45}$	$(\frac{6}{31}, -\frac{48}{341}, \frac{42}{341}, -\frac{72}{341}, \frac{42}{341}, \frac{18}{341}, \frac{30}{341}, \frac{84}{341}, -\frac{30}{341})$ $+\frac{36}{341}\sqrt{19}e^3 \otimes e_9 + \frac{6}{341}\sqrt{542}e^5 \otimes e_7$	{12479, 15689, 23456, 378}
942:16	$0, 0, 0, 0, 0, \frac{27}{2353}\sqrt{103}e^{12}, \frac{9}{2353}\sqrt{1535}e^{34},$ $\frac{54}{2353}\sqrt{57}e^{16} + \frac{18}{2353}\sqrt{165}e^{35}, \frac{9}{2353}\sqrt{790}e^{26} + \frac{9}{2353}\sqrt{761}e^{45}$	$(-\frac{99}{2353}, \frac{153}{2353}, \frac{216}{2353}, \frac{36}{2353}, \frac{171}{2353}, \frac{54}{2353}, -\frac{180}{2353}, -\frac{45}{2353}, \frac{207}{2353})$ $+\frac{45}{2353}\sqrt{77}e^4 \otimes e_8 + \frac{9}{2353}\sqrt{2338}e^1 \otimes e_7$	{128, 2356789}
942:16	$0, 0, 0, 0, 0, \frac{26}{669}\sqrt{223}e^{12}, \frac{26}{669}\sqrt{30}e^{34}, \frac{26}{669}\sqrt{303}e^{16} + \frac{26}{669}\sqrt{165}e^{35},$ $\frac{130}{669}\sqrt{3}e^{26} + \frac{52}{669}\sqrt{6}e^{45}$	$(\frac{143}{669}, -\frac{46}{669}, -\frac{1}{223}, -\frac{64}{223}, \frac{81}{223}, \frac{97}{669}, -\frac{65}{223}, \frac{80}{223}, \frac{17}{223})$ $+\frac{78}{223}\sqrt{7}e^1 \otimes e_7$	{123458, 128, 2356789, 246789}
942:16	$0, 0, 0, 0, 0, \frac{12}{281}\sqrt{70}e^{12}, \frac{48}{281}\sqrt{14}e^{34}, \frac{24}{281}e^{16} + \frac{12}{281}\sqrt{226}e^{35},$ $\frac{24}{281}e^{26} + \frac{12}{281}\sqrt{226}e^{45}$	$(\frac{36}{281}, \frac{36}{281}, -\frac{60}{281}, -\frac{60}{281}, \frac{168}{281}, \frac{72}{281}, -\frac{120}{281}, \frac{108}{281}, \frac{108}{281})$ $+\frac{12}{281}\sqrt{914}e^5 \otimes e_7$	{12345, 13678, 589}
942:16	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{15}{34}e^{34}, \frac{1}{34}\sqrt{130}e^{16} + \frac{1}{34}\sqrt{15}e^{35},$ $\frac{1}{17}\sqrt{15}e^{36} + \frac{1}{17}\sqrt{5}e^{45}$	$(\frac{4}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{1}{17}, \frac{5}{17}, -\frac{2}{17})$ $+\frac{5}{34}\sqrt{14}e^1 \otimes e_7 + \frac{7}{34}\sqrt{5}e^3 \otimes e_9$	{1569, 37}
942:17	$0, 0, 0, 0, 0, \frac{7}{338}\sqrt{302}e^{12}, \frac{35}{338}\sqrt{22}e^{13} + \frac{7}{338}\sqrt{502}e^{45}, \frac{7}{338}\sqrt{398}e^{16},$ $\frac{7}{338}\sqrt{818}e^{26} + \frac{35}{169}\sqrt{6}e^{34}$	$(-\frac{35}{169}, \frac{42}{169}, \frac{28}{169}, \frac{21}{169}, -\frac{28}{169}, \frac{7}{169}, -\frac{7}{169}, -\frac{28}{169}, \frac{49}{169})$ $+\frac{7}{169}\sqrt{26}e^4 \otimes e_5 + \frac{7}{338}\sqrt{1282}e^2 \otimes e_7$	{123459, 2456}
942:17	$0, 0, 0, 0, 0, \frac{3}{70}\sqrt{42}e^{12}, \frac{1}{70}\sqrt{322}e^{13} + \frac{1}{70}\sqrt{714}e^{45}, \frac{1}{10}\sqrt{2}e^{16},$ $\frac{1}{10}\sqrt{14}e^{26} + \frac{3}{35}\sqrt{14}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{1}{70}\sqrt{1246}e^2 \otimes e_7 + \frac{3}{35}\sqrt{14}e^5 \otimes e_8$	{123459, 2456}
942:17	$0, 0, 0, 0, 0, \frac{4}{2679}\sqrt{125513}e^{12}, \frac{4}{2679}\sqrt{188470}e^{13} + \frac{4}{2679}\sqrt{36491}e^{45},$ $\frac{4}{2679}\sqrt{178445}e^{16}, \frac{8}{893}\sqrt{4411}e^{26} + \frac{8}{2679}\sqrt{121503}e^{34}$	$(\frac{181}{2679}, \frac{184}{893}, -\frac{91}{893}, \frac{82}{141}, -\frac{550}{893}, \frac{733}{2679}, -\frac{92}{2679}, \frac{914}{2679}, \frac{1285}{2679})$ $+\frac{4}{2679}\sqrt{886210}e^4 \otimes e_5$	{1258, 156, 235689, 359}
942:17	$0, 0, 0, 0, 0, \frac{60}{169}e^{12}, \frac{10}{169}\sqrt{87}e^{13} + \frac{10}{169}\sqrt{57}e^{45}, \frac{20}{169}\sqrt{26}e^{16},$ $\frac{20}{169}\sqrt{14}e^{26} + \frac{10}{169}\sqrt{85}e^{34}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{23}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{9}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{50}{169})$ $+\frac{20}{169}\sqrt{37}e^4 \otimes e_8$	{128, 13467, 23689, 479}
942:17	$0, 0, 0, 0, 0, \frac{400}{2853}\sqrt{2}e^{12}, \frac{50}{2853}\sqrt{47}e^{13} + \frac{50}{2853}\sqrt{235}e^{45},$ $\frac{100}{2853}\sqrt{139}e^{16}, \frac{50}{2853}\sqrt{34}e^{26} + \frac{50}{2853}\sqrt{877}e^{34}$	$(-\frac{100}{951}, \frac{175}{2853}, \frac{275}{951}, -\frac{775}{2853}, \frac{1300}{2853}, -\frac{125}{2853}, \frac{175}{951}, -\frac{425}{2853}, \frac{50}{2853})$ $+\frac{50}{2853}\sqrt{1198}e^5 \otimes e_9 + \frac{50}{2853}\sqrt{1318}e^3 \otimes e_8$	{25678, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:17	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{15}e^{12}, \frac{4}{31}\sqrt{30}e^{13} + \frac{4}{31}\sqrt{39}e^{45}, \frac{12}{31}\sqrt{5}e^{16},$ $\frac{8}{31}\sqrt{3}e^{26} + \frac{4}{31}\sqrt{6}e^{34}$	$(-\frac{5}{31}, \frac{4}{31}, \frac{13}{31}, -\frac{10}{31}, \frac{18}{31}, -\frac{1}{31}, \frac{8}{31}, -\frac{6}{31}, \frac{3}{31})$ $+ \frac{4}{31}\sqrt{78}e^5 \otimes e_8$	{123478, 128, 23689, 246789}
942:17	$0, 0, 0, 0, 0, \frac{48}{2849}\sqrt{685}e^{12}, \frac{6}{2849}\sqrt{61239}e^{13} + \frac{6}{2849}\sqrt{125629}e^{45},$ $\frac{36}{2849}\sqrt{274}e^{16}, \frac{12}{2849}\sqrt{25482}e^{26} + \frac{6}{2849}\sqrt{74665}e^{34}$	$(\frac{568}{2849}, -\frac{551}{2849}, \frac{415}{2849}, -\frac{949}{2849}, \frac{276}{407}, \frac{17}{2849}, \frac{983}{2849}, \frac{585}{2849}, -\frac{534}{2849})$ $+ \frac{24}{2849}\sqrt{20002}e^5 \otimes e_9$	{234568, 25678, 345, 57}
942:17	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{35}e^{12}, \frac{1}{53}\sqrt{86}e^{13} + \frac{1}{53}\sqrt{71}e^{45}, \frac{1}{53}\sqrt{86}e^{16},$ $\frac{2}{53}\sqrt{7}e^{26} + \frac{1}{53}\sqrt{85}e^{34}$	$(-\frac{4}{53}, \frac{3}{53}, \frac{5}{53}, -\frac{3}{53}, \frac{4}{53}, -\frac{1}{53}, \frac{1}{53}, -\frac{5}{53}, \frac{2}{53})$ $+ \frac{2}{53}\sqrt{17}e^5 \otimes e_9 + \frac{5}{53}\sqrt{5}e^4 \otimes e_8$	{23689, 479}
942:17	$0, 0, 0, 0, 0, \frac{15}{61}\sqrt{2}e^{12}, \frac{3}{61}\sqrt{86}e^{13} + \frac{3}{61}\sqrt{78}e^{45}, \frac{3}{61}\sqrt{58}e^{16},$ $\frac{9}{61}\sqrt{14}e^{26} + \frac{6}{61}\sqrt{21}e^{34}$	$(-\frac{12}{61}, \frac{15}{61}, \frac{9}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{3}{61}, -\frac{3}{61}, -\frac{9}{61}, \frac{18}{61})$ $+ \frac{3}{61}\sqrt{206}e^2 \otimes e_7 + \frac{6}{61}\sqrt{2}e^3 \otimes e_8$	{123459, 156789}
942:17	$0, 0, 0, 0, 0, \frac{12}{2693}\sqrt{1093}e^{12}, \frac{2}{2693}\sqrt{333365}e^{13} + \frac{2}{2693}\sqrt{357411}e^{45},$ $\frac{28}{2693}\sqrt{5465}e^{16}, \frac{4}{2693}\sqrt{150834}e^{26} + \frac{66}{2693}\sqrt{1093}e^{34}$	$(-\frac{908}{2693}, \frac{929}{2693}, \frac{1299}{2693}, -\frac{349}{2693}, \frac{740}{2693}, \frac{21}{2693}, \frac{391}{2693}, -\frac{887}{2693}, \frac{950}{2693})$ $+ \frac{4}{2693}\sqrt{623010}e^3 \otimes e_8$	{1278, 1346, 24689, 379}
942:17	$0, 0, 0, 0, 0, \frac{53}{8367}\sqrt{518}e^{12}, \frac{212}{8367}\sqrt{10}e^{13} + \frac{106}{8367}\sqrt{494}e^{45},$ $\frac{212}{8367}\sqrt{290}e^{16}, \frac{106}{8367}\sqrt{894}e^{26} + \frac{53}{8367}\sqrt{7482}e^{34}$	$(-\frac{1802}{8367}, \frac{742}{2789}, \frac{477}{8367}, \frac{1219}{8367}, -\frac{530}{2789}, \frac{424}{8367}, -\frac{371}{8367}, -\frac{1378}{8367}, \frac{2650}{8367})$ $+ \frac{265}{8367}\sqrt{262}e^4 \otimes e_5 + \frac{53}{8367}\sqrt{8790}e^3 \otimes e_8$	{1258, 359}
942:17	$0, 0, 0, 0, 0, \frac{60}{169}e^{12}, \frac{10}{169}\sqrt{61}e^{13} + \frac{10}{169}\sqrt{57}e^{45}, \frac{20}{169}\sqrt{11}e^{16},$ $\frac{20}{169}\sqrt{23}e^{26} + \frac{30}{169}\sqrt{7}e^{34}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{23}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{9}{169}, -\frac{9}{169}, -\frac{23}{169}, \frac{50}{169})$ $+ \frac{20}{169}\sqrt{37}e^2 \otimes e_7$	{123459, 156789, 2456, 3578}
942:17	$0, 0, 0, 0, 0, \frac{78}{4157}\sqrt{74}e^{12}, \frac{26}{4157}\sqrt{419}e^{13} + \frac{26}{4157}\sqrt{489}e^{45},$ $\frac{416}{4157}\sqrt{5}e^{16}, \frac{26}{4157}\sqrt{102}e^{26} + \frac{26}{4157}\sqrt{1443}e^{34}$	$(\frac{52}{4157}, -\frac{169}{4157}, \frac{273}{4157}, -\frac{559}{4157}, \frac{884}{4157}, -\frac{117}{4157}, \frac{325}{4157}, -\frac{65}{4157}, -\frac{286}{4157})$ $+ \frac{26}{4157}\sqrt{2022}e^1 \otimes e_9 + \frac{52}{4157}\sqrt{435}e^3 \otimes e_8$	{1278, 1346, 24689, 379}
942:17	$0, 0, 0, 0, 0, \frac{78}{4157}\sqrt{74}e^{12}, \frac{26}{4157}\sqrt{419}e^{13} + \frac{26}{4157}\sqrt{489}e^{45},$ $\frac{416}{4157}\sqrt{5}e^{16}, \frac{26}{4157}\sqrt{102}e^{26} + \frac{26}{4157}\sqrt{1443}e^{34}$	$(\frac{52}{4157}, -\frac{169}{4157}, \frac{273}{4157}, -\frac{559}{4157}, \frac{884}{4157}, -\frac{117}{4157}, \frac{325}{4157}, -\frac{65}{4157}, -\frac{286}{4157})$ $- \frac{26}{4157}\sqrt{2022}e^1 \otimes e_9 + \frac{52}{4157}\sqrt{435}e^3 \otimes e_8$	{1278, 1346, 24689, 379}
942:17	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{5}e^{12}, \frac{2}{181}\sqrt{51}e^{13} + \frac{2}{181}\sqrt{30}e^{45}, \frac{2}{181}\sqrt{86}e^{16},$ $\frac{2}{181}\sqrt{26}e^{26} + \frac{4}{181}\sqrt{19}e^{34}$	$(\frac{4}{181}, -\frac{1}{181}, -\frac{7}{181}, \frac{9}{181}, -\frac{12}{181}, \frac{3}{181}, -\frac{3}{181}, \frac{7}{181}, \frac{2}{181})$ $- \frac{2}{181}\sqrt{66}e^1 \otimes e_9 + \frac{2}{181}\sqrt{97}e^4 \otimes e_8$	{128, 13467, 23689, 479}
942:17	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{5}e^{12}, \frac{2}{181}\sqrt{51}e^{13} + \frac{2}{181}\sqrt{30}e^{45}, \frac{2}{181}\sqrt{86}e^{16},$ $\frac{2}{181}\sqrt{26}e^{26} + \frac{4}{181}\sqrt{19}e^{34}$	$(\frac{4}{181}, -\frac{1}{181}, -\frac{7}{181}, \frac{9}{181}, -\frac{12}{181}, \frac{3}{181}, -\frac{3}{181}, \frac{7}{181}, \frac{2}{181})$ $+ \frac{2}{181}\sqrt{66}e^1 \otimes e_9 + \frac{2}{181}\sqrt{97}e^4 \otimes e_8$	{128, 13467, 23689, 479}
942:17	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{35}e^{12}, \frac{1}{53}\sqrt{39}e^{13} + \frac{1}{53}\sqrt{71}e^{45}, \frac{1}{53}\sqrt{39}e^{16},$ $\frac{1}{53}\sqrt{97}e^{26} + \frac{2}{53}\sqrt{10}e^{34}$	$(-\frac{4}{53}, \frac{3}{53}, \frac{5}{53}, -\frac{3}{53}, \frac{4}{53}, -\frac{1}{53}, \frac{1}{53}, -\frac{5}{53}, \frac{2}{53})$ $+ \frac{2}{53}\sqrt{17}e^5 \otimes e_9 + \frac{5}{53}\sqrt{5}e^2 \otimes e_7$	{2456, 3578}
942:18	$0, 0, 0, 0, 0, \frac{5}{257}\sqrt{79}e^{12}, \frac{5}{257}\sqrt{309}e^{13} + \frac{5}{257}\sqrt{221}e^{45}, \frac{15}{257}\sqrt{39}e^{26},$ $\frac{65}{257}\sqrt{2}e^{16} + \frac{5}{257}\sqrt{426}e^{34}$	$(\frac{45}{257}, -\frac{50}{257}, -\frac{5}{257}, \frac{45}{257}, -\frac{5}{257}, -\frac{5}{257}, \frac{40}{257}, -\frac{55}{257}, \frac{40}{257})$ $+ \frac{5}{257}\sqrt{313}e^4 \otimes e_5 + \frac{5}{257}\sqrt{643}e^3 \otimes e_8$	{123569, 134, 2489, 568}
942:18	$0, 0, 0, 0, 0, \frac{5}{257}\sqrt{79}e^{12}, \frac{5}{257}\sqrt{309}e^{13} + \frac{5}{257}\sqrt{221}e^{45}, \frac{15}{257}\sqrt{39}e^{26},$ $\frac{65}{257}\sqrt{2}e^{16} + \frac{5}{257}\sqrt{426}e^{34}$	$(\frac{45}{257}, -\frac{50}{257}, -\frac{5}{257}, \frac{45}{257}, -\frac{5}{257}, -\frac{5}{257}, \frac{40}{257}, -\frac{55}{257}, \frac{40}{257})$ $- \frac{5}{257}\sqrt{313}e^4 \otimes e_5 + \frac{5}{257}\sqrt{643}e^3 \otimes e_8$	{123569, 134, 2489, 568}
942:18	$0, 0, 0, 0, 0, \frac{13}{397}\sqrt{163}e^{12}, \frac{13}{397}\sqrt{115}e^{13} + \frac{13}{397}\sqrt{149}e^{45}, \frac{13}{397}\sqrt{233}e^{26},$ $\frac{13}{397}\sqrt{95}e^{16} + \frac{13}{397}\sqrt{42}e^{34}$	$(-\frac{39}{397}, \frac{104}{397}, -\frac{26}{397}, \frac{52}{397}, -\frac{117}{397}, \frac{65}{397}, -\frac{65}{397}, \frac{169}{397}, \frac{26}{397})$ $+ \frac{13}{397}\sqrt{190}e^4 \otimes e_5 + \frac{13}{397}\sqrt{499}e^2 \otimes e_7$	{146789, 3579}
942:18	$0, 0, 0, 0, 0, \frac{3}{437}\sqrt{43}e^{12}, \frac{9}{437}\sqrt{35}e^{13} + \frac{3}{437}\sqrt{7}e^{45}, \frac{3}{437}\sqrt{377}e^{26},$ $\frac{3}{437}\sqrt{257}e^{16} + \frac{15}{437}\sqrt{6}e^{34}$	$(-\frac{15}{437}, \frac{12}{437}, \frac{18}{437}, -\frac{36}{437}, \frac{39}{437}, -\frac{3}{437}, \frac{3}{437}, \frac{9}{437}, -\frac{18}{437})$ $+ \frac{3}{437}\sqrt{373}e^2 \otimes e_7 + \frac{3}{437}\sqrt{430}e^3 \otimes e_8$	{1456789, 379}
942:18	$0, 0, 0, 0, 0, \frac{19}{2073}\sqrt{53}e^{12}, \frac{247}{2073}\sqrt{6}e^{13} + \frac{19}{2073}\sqrt{1357}e^{45},$ $\frac{19}{2073}\sqrt{586}e^{26}, \frac{38}{2073}\sqrt{134}e^{16} + \frac{203}{691}e^{34}$	$(\frac{209}{2073}, -\frac{323}{2073}, \frac{57}{691}, -\frac{76}{2073}, \frac{152}{691}, -\frac{38}{691}, \frac{380}{2073}, -\frac{437}{2073}, \frac{95}{2073})$ $+ \frac{19}{2073}\sqrt{1877}e^4 \otimes e_8 + \frac{38}{2073}\sqrt{463}e^5 \otimes e_9$	{24679, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:18	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{473}e^{12}, \frac{1}{41}\sqrt{385}e^{13} + \frac{1}{41}\sqrt{517}e^{45}, \frac{1}{41}\sqrt{671}e^{26},$ $\frac{1}{41}\sqrt{209}e^{16} + \frac{2}{41}\sqrt{33}e^{34}$	$(-\frac{8}{41}, \frac{15}{41}, \frac{1}{41}, -\frac{2}{41}, -\frac{5}{41}, \frac{7}{41}, -\frac{7}{41}, \frac{22}{41}, -\frac{1}{41})$ $+ \frac{1}{41}\sqrt{1507}e^2 \otimes e_7$	{1238, 156789, 2456, 3479}
942:18	$0, 0, 0, 0, 0, \frac{2}{1533}\sqrt{112513}e^{12}, \frac{1}{1533}\sqrt{301306}e^{13} + \frac{1}{1533}\sqrt{324190}e^{45},$ $\frac{1}{511}\sqrt{57210}e^{26}, \frac{2}{1533}\sqrt{123955}e^{16} + \frac{2}{1533}\sqrt{2322726}e^{34}$	$(\frac{122}{511}, \frac{22}{1533}, -\frac{85}{511}, \frac{1009}{1533}, -\frac{898}{1533}, \frac{388}{1533}, \frac{37}{511}, \frac{410}{1533}, \frac{754}{1533})$ $+ \frac{2}{1533}\sqrt{1199503}e^4 \otimes e_5$	{1258, 14689, 2346, 359}
942:18	$0, 0, 0, 0, 0, \frac{3}{26}\sqrt{2}e^{12}, \frac{1}{26}\sqrt{10}e^{13} + \frac{1}{26}\sqrt{34}e^{45}, \frac{1}{26}\sqrt{38}e^{26},$ $\frac{1}{26}\sqrt{10}e^{16} + \frac{1}{13}\sqrt{2}e^{34}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, 0, 0, \frac{1}{13}, -\frac{1}{13})$ $+ \frac{1}{13}\sqrt{10}e^5 \otimes e_8 + \frac{3}{26}\sqrt{6}e^2 \otimes e_7$	{1238, 2456}
942:18	$0, 0, 0, 0, 0, \frac{248}{2381}\sqrt{3}e^{12}, \frac{124}{2381}\sqrt{69}e^{13} + \frac{31}{2381}\sqrt{330}e^{45},$ $\frac{62}{2381}\sqrt{366}e^{26}, \frac{31}{2381}\sqrt{818}e^{16} + \frac{93}{2381}\sqrt{178}e^{34}$	$(\frac{217}{2381}, -\frac{372}{2381}, \frac{434}{2381}, -\frac{372}{2381}, \frac{1023}{2381}, -\frac{155}{2381}, \frac{651}{2381}, -\frac{527}{2381}, \frac{62}{2381})$ $+ \frac{186}{2381}\sqrt{33}e^5 \otimes e_9 + \frac{31}{2381}\sqrt{3046}e^3 \otimes e_8$	{2489, 568}
942:18	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{1}{34}\sqrt{15}e^{13} + \frac{15}{34}e^{45}, \frac{1}{34}\sqrt{115}e^{26},$ $\frac{5}{34}\sqrt{3}e^{16} + \frac{1}{17}\sqrt{5}e^{34}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, \frac{5}{17}, -\frac{2}{17})$ $+ \frac{1}{17}\sqrt{65}e^5 \otimes e_9 + \frac{1}{34}\sqrt{335}e^2 \otimes e_7$	{2369, 57}
942:18	$0, 0, 0, 0, 0, \frac{22}{2617}\sqrt{411}e^{12}, \frac{22}{2617}\sqrt{195}e^{13} + \frac{44}{2617}\sqrt{78}e^{45},$ $\frac{22}{2617}\sqrt{951}e^{26}, \frac{44}{2617}\sqrt{59}e^{16} + \frac{66}{2617}\sqrt{110}e^{34}$	$(-\frac{121}{2617}, \frac{66}{2617}, \frac{253}{2617}, -\frac{429}{2617}, \frac{561}{2617}, -\frac{55}{2617}, \frac{132}{2617}, \frac{11}{2617}, -\frac{176}{2617})$ $+ \frac{22}{2617}\sqrt{1189}e^3 \otimes e_8 + \frac{66}{2617}\sqrt{131}e^2 \otimes e_9$	{1278, 1456789, 234567, 379}
942:18	$0, 0, 0, 0, 0, \frac{22}{2617}\sqrt{411}e^{12}, \frac{22}{2617}\sqrt{195}e^{13} + \frac{44}{2617}\sqrt{78}e^{45},$ $\frac{22}{2617}\sqrt{951}e^{26}, \frac{44}{2617}\sqrt{59}e^{16} + \frac{66}{2617}\sqrt{110}e^{34}$	$(-\frac{121}{2617}, \frac{66}{2617}, \frac{253}{2617}, -\frac{429}{2617}, \frac{561}{2617}, -\frac{55}{2617}, \frac{132}{2617}, \frac{11}{2617}, -\frac{176}{2617})$ $+ \frac{22}{2617}\sqrt{1189}e^3 \otimes e_8 - \frac{66}{2617}\sqrt{131}e^2 \otimes e_9$	{1278, 1456789, 234567, 379}
942:18	$0, 0, 0, 0, 0, \frac{30}{3161}\sqrt{2545}e^{12}, \frac{30}{3161}\sqrt{5115}e^{13} + \frac{60}{3161}\sqrt{1510}e^{45},$ $\frac{60}{3161}\sqrt{330}e^{26}, \frac{1080}{3161}\sqrt{5}e^{16} + \frac{600}{3161}\sqrt{7}e^{34}$	$(-\frac{278}{3161}, \frac{259}{3161}, \frac{967}{3161}, -\frac{1264}{3161}, \frac{1953}{3161}, -\frac{19}{3161}, \frac{689}{3161}, \frac{240}{3161}, -\frac{297}{3161})$ $+ \frac{30}{3161}\sqrt{13285}e^5 \otimes e_9$	{23689, 246789, 3458, 578}
942:18	$0, 0, 0, 0, 0, \frac{4}{403}\sqrt{1385}e^{12}, \frac{1}{403}\sqrt{29362}e^{13} + \frac{1}{403}\sqrt{59278}e^{45},$ $\frac{3}{403}\sqrt{9418}e^{26}, \frac{4}{403}\sqrt{1939}e^{16} + \frac{3}{403}\sqrt{8310}e^{34}$	$(\frac{136}{403}, -\frac{126}{403}, -\frac{15}{403}, \frac{161}{403}, -\frac{40}{403}, \frac{10}{403}, \frac{121}{403}, -\frac{116}{403}, \frac{146}{403})$ $+ \frac{4}{403}\sqrt{11634}e^4 \otimes e_8$	{128, 1356789, 23456, 479}
942:18	$0, 0, 0, 0, 0, \frac{4}{1469}\sqrt{14007}e^{12}, \frac{1}{1469}\sqrt{892446}e^{13} + \frac{11}{1469}\sqrt{4002}e^{45},$ $\frac{1}{1469}\sqrt{916458}e^{26}, \frac{4}{1469}\sqrt{49358}e^{16} + \frac{3}{1469}\sqrt{86710}e^{34}$	$(\frac{256}{1469}, -\frac{354}{1469}, \frac{215}{1469}, -\frac{57}{1469}, \frac{528}{1469}, -\frac{98}{1469}, \frac{471}{1469}, -\frac{4}{13}, \frac{158}{1469})$ $+ \frac{4}{1469}\sqrt{108721}e^3 \otimes e_8$	{123569, 134, 2489, 568}
942:18	$0, 0, 0, 0, 0, \frac{6}{1067}\sqrt{4990}e^{12}, \frac{8}{1067}\sqrt{2495}e^{13} + \frac{2}{1067}\sqrt{196606}e^{45},$ $\frac{2}{1067}\sqrt{180638}e^{26}, \frac{2}{1067}\sqrt{9481}e^{16} + \frac{2}{1067}\sqrt{17465}e^{34}$	$(\frac{199}{1067}, -\frac{262}{1067}, \frac{305}{1067}, -\frac{169}{1067}, \frac{673}{1067}, -\frac{63}{1067}, \frac{504}{1067}, -\frac{325}{1067}, \frac{136}{1067})$ $+ \frac{2}{1067}\sqrt{437623}e^5 \otimes e_8$	{1346789, 1689, 3459, 579}
942:19	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{2}{71}\sqrt{519}e^{13}, \frac{3}{355}\sqrt{7266}e^{16} + \frac{1}{71}\sqrt{1038}e^{23},$ $\frac{1}{355}\sqrt{47402}e^{26} + \frac{3}{355}\sqrt{7266}e^{34}$	$(-\frac{36}{355}, \frac{13}{71}, -\frac{72}{355}, \frac{166}{355}, \frac{42}{355}, \frac{29}{355}, -\frac{108}{355}, -\frac{7}{355}, \frac{94}{355})$ $+ \frac{1}{355}\sqrt{108298}e^4 \otimes e_8$	{1258, 128, 4579, 479}
942:19	$0, 0, 0, 0, 0, \frac{7}{137}\sqrt{5}e^{12}, \frac{56}{137}e^{13}, \frac{7}{137}\sqrt{67}e^{16} + \frac{28}{137}\sqrt{6}e^{23},$ $\frac{7}{137}\sqrt{61}e^{26} + \frac{7}{137}\sqrt{67}e^{34}$	$(\frac{14}{137}, -\frac{7}{274}, \frac{28}{137}, -\frac{21}{137}, -\frac{105}{274}, \frac{21}{274}, \frac{42}{137}, \frac{49}{274}, \frac{7}{137})$ $+ \frac{35}{137}\sqrt{5}e^2 \otimes e_5 + \frac{7}{137}\sqrt{129}e^3 \otimes e_4$	{124678, 1457}
942:19	$0, 0, 0, 0, 0, \frac{16}{1005}\sqrt{645}e^{12}, \frac{16}{335}\sqrt{69}e^{13}, \frac{16}{335}\sqrt{74}e^{16} + \frac{32}{1005}\sqrt{174}e^{23},$ $\frac{16}{335}\sqrt{7}e^{26} + \frac{16}{1005}\sqrt{537}e^{34}$	$(-\frac{8}{335}, \frac{48}{335}, -\frac{16}{335}, \frac{104}{335}, -\frac{136}{335}, \frac{8}{67}, -\frac{24}{335}, \frac{32}{335}, \frac{88}{335})$ $+ \frac{16}{1005}\sqrt{1155}e^4 \otimes e_7 + \frac{16}{1005}\sqrt{1542}e^1 \otimes e_5$	{12348, 1346, 2356789, 3579}
942:19	$0, 0, 0, 0, 0, \frac{16}{1005}\sqrt{645}e^{12}, \frac{16}{335}\sqrt{69}e^{13}, \frac{16}{335}\sqrt{74}e^{16} + \frac{32}{1005}\sqrt{174}e^{23},$ $\frac{16}{335}\sqrt{7}e^{26} + \frac{16}{1005}\sqrt{537}e^{34}$	$(-\frac{8}{335}, \frac{48}{335}, -\frac{16}{335}, \frac{104}{335}, -\frac{136}{335}, \frac{8}{67}, -\frac{24}{335}, \frac{32}{335}, \frac{88}{335})$ $- \frac{16}{1005}\sqrt{1155}e^4 \otimes e_7 + \frac{16}{1005}\sqrt{1542}e^1 \otimes e_5$	{12348, 1346, 2356789, 3579}
942:19	$0, 0, 0, 0, 0, \frac{6}{2261}\sqrt{40494}e^{12}, \frac{4}{2261}\sqrt{30966}e^{13},$ $\frac{20}{2261}\sqrt{1191}e^{16} + \frac{2}{2261}\sqrt{491883}e^{23}, \frac{6}{2261}\sqrt{81782}e^{26} + \frac{24}{2261}\sqrt{5955}e^{34}$	$(\frac{99}{2261}, -\frac{110}{2261}, \frac{198}{2261}, -\frac{319}{2261}, 1, -\frac{11}{2261}, \frac{297}{2261}, \frac{88}{2261}, -\frac{121}{2261})$ $+ \frac{12}{2261}\sqrt{61535}e^5 \otimes e_9$	{123789, 13679, 234568, 345}
942:19	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{1}{355}\sqrt{56398}e^{13},$ $\frac{2}{355}\sqrt{10726}e^{16} + \frac{1}{71}\sqrt{1038}e^{23}, \frac{4}{355}\sqrt{3806}e^{26} + \frac{2}{355}\sqrt{10726}e^{34}$	$(-\frac{36}{355}, \frac{13}{71}, -\frac{72}{355}, \frac{166}{355}, \frac{42}{355}, \frac{29}{355}, -\frac{108}{355}, -\frac{7}{355}, \frac{94}{355})$ $+ \frac{1}{355}\sqrt{108298}e^2 \otimes e_7$	{123459, 12349, 3578, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:19	$0, 0, 0, 0, 0, \frac{930}{4157}\sqrt{2}e^{12}, \frac{62}{4157}\sqrt{703}e^{13},$ $\frac{31}{4157}\sqrt{510}e^{16} + \frac{31}{4157}\sqrt{102}e^{23}, \frac{62}{4157}\sqrt{602}e^{26} + \frac{31}{4157}\sqrt{1514}e^{34}$	$(-\frac{155}{4157}, \frac{496}{4157}, -\frac{310}{4157}, \frac{1147}{4157}, -\frac{1116}{4157}, \frac{341}{4157}, -\frac{465}{4157}, \frac{186}{4157}, \frac{837}{4157})$ $+ \frac{31}{4157}\sqrt{4522}e^2 \otimes e_7 + \frac{62}{4157}\sqrt{753}e^1 \otimes e_5$	{12349, 3578}
942:19	$0, 0, 0, 0, 0, \frac{35}{3047}\sqrt{462}e^{12}, \frac{35}{3047}\sqrt{1702}e^{13},$ $\frac{140}{3047}\sqrt{62}e^{16} + \frac{35}{3047}\sqrt{1518}e^{23}, \frac{280}{3047}\sqrt{29}e^{26} + \frac{140}{3047}\sqrt{93}e^{34}$	$(-\frac{280}{3047}, \frac{35}{277}, -\frac{560}{3047}, \frac{1050}{3047}, \frac{1050}{3047}, \frac{105}{3047}, -\frac{840}{3047}, -\frac{175}{3047}, \frac{490}{3047})$ $+ \frac{140}{3047}\sqrt{93}e^5 \otimes e_8 + \frac{35}{3047}\sqrt{3994}e^2 \otimes e_7$	{123459, 378}
942:19	$0, 0, 0, 0, 0, \frac{22}{751}\sqrt{105}e^{12}, \frac{11}{751}\sqrt{1626}e^{13}, \frac{22}{751}\sqrt{546}e^{16} + \frac{231}{751}\sqrt{2}e^{23},$ $\frac{11}{751}\sqrt{1578}e^{26} + \frac{22}{751}\sqrt{546}e^{34}$	$(-\frac{77}{751}, \frac{132}{751}, -\frac{154}{751}, \frac{341}{751}, \frac{132}{751}, \frac{55}{751}, \frac{231}{751}, -\frac{22}{751}, \frac{187}{751})$ $+ \frac{11}{751}\sqrt{3714}e^4 \otimes e_8 + \frac{22}{751}\sqrt{69}e^5 \otimes e_7$	{1258, 479}
942:19	$0, 0, 0, 0, 0, \frac{12}{431}\sqrt{195}e^{12}, \frac{3}{431}\sqrt{6690}e^{13}, \frac{33}{431}\sqrt{30}e^{16} + \frac{54}{431}\sqrt{10}e^{23},$ $\frac{9}{431}\sqrt{170}e^{26} + \frac{33}{431}\sqrt{30}e^{34}$	$(\frac{21}{431}, -\frac{36}{431}, \frac{42}{431}, -\frac{93}{431}, \frac{198}{431}, -\frac{15}{431}, \frac{63}{431}, \frac{6}{431}, -\frac{51}{431})$ $+ \frac{3}{431}\sqrt{5370}e^5 \otimes e_7 + \frac{3}{431}\sqrt{6990}e^3 \otimes e_4$	{124678, 147}
942:19	$0, 0, 0, 0, 0, \frac{322}{1187}\sqrt{2}e^{12}, \frac{184}{1187}\sqrt{6}e^{13}, \frac{46}{1187}\sqrt{2}e^{16} + \frac{184}{1187}\sqrt{15}e^{23},$ $\frac{161}{1187}\sqrt{3}e^{26} + \frac{161}{1187}\sqrt{7}e^{34}$	$(\frac{92}{1187}, -\frac{253}{2374}, \frac{184}{1187}, -\frac{345}{1187}, \frac{1173}{2374}, -\frac{69}{2374}, \frac{276}{1187}, \frac{115}{2374}, -\frac{161}{1187})$ $+ \frac{23}{1187}\sqrt{1005}e^5 \otimes e_8 + \frac{23}{1187}\sqrt{1201}e^3 \otimes e_4$	{248, 456}
942:19	$0, 0, 0, 0, 0, \frac{340}{703}e^{12}, \frac{10}{703}\sqrt{5678}e^{13}, \frac{10}{703}\sqrt{1802}e^{16} + \frac{10}{703}\sqrt{323}e^{23},$ $\frac{10}{703}\sqrt{1938}e^{26} + \frac{10}{703}\sqrt{1802}e^{34}$	$(-\frac{49}{703}, \frac{84}{703}, -\frac{98}{703}, \frac{217}{703}, \frac{1}{703}, \frac{35}{703}, -\frac{147}{703}, -\frac{14}{703}, \frac{119}{703})$ $+ \frac{40}{703}\sqrt{629}e^5 \otimes e_7$	{123568, 135, 234789, 34679}
942:19	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{2030}e^{12}, \frac{6}{133}\sqrt{406}e^{13}, \frac{2}{133}\sqrt{2262}e^{16} + \frac{2}{133}\sqrt{3306}e^{23},$ $\frac{4}{133}\sqrt{174}e^{26} + \frac{2}{133}\sqrt{2262}e^{34}$	$(\frac{26}{133}, -\frac{1}{7}, \frac{52}{133}, -\frac{64}{133}, \frac{15}{133}, \frac{1}{133}, \frac{78}{19}, \frac{33}{133}, -\frac{12}{133})$ $+ \frac{4}{133}\sqrt{1711}e^3 \otimes e_4$	{1245678, 124678, 1457, 147}
942:19	$0, 0, 0, 0, 0, \frac{11}{335}\sqrt{106}e^{12}, \frac{22}{335}\sqrt{2}e^{13}, \frac{11}{335}\sqrt{206}e^{16} + \frac{11}{67}\sqrt{6}e^{23},$ $\frac{77}{335}\sqrt{2}e^{26} + \frac{11}{335}\sqrt{206}e^{34}$	$(-\frac{22}{335}, \frac{11}{67}, -\frac{44}{335}, \frac{132}{335}, -\frac{66}{335}, \frac{33}{335}, -\frac{66}{335}, \frac{11}{335}, \frac{88}{335})$ $+ \frac{11}{335}\sqrt{402}e^4 \otimes e_8 + \frac{22}{67}\sqrt{2}e^2 \otimes e_5$	{128, 4579}
942:19	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{15}e^{12}, \frac{2}{181}\sqrt{21}e^{13}, \frac{18}{181}e^{16} + \frac{4}{181}\sqrt{10}e^{23},$ $\frac{2}{181}e^{26} + \frac{18}{181}e^{34}$	$(-\frac{1}{181}, -\frac{1}{181}, -\frac{2}{181}, -\frac{1}{181}, \frac{18}{181}, \frac{2}{181}, \frac{181}{181}, -\frac{3}{181}, -\frac{3}{181}, -\frac{3}{181})$ $- \frac{2}{181}\sqrt{101}e^1 \otimes e_9 + \frac{2}{181}\sqrt{62}e^4 \otimes e_8$	{134567, 13467, 235689, 23689}
942:19	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{15}e^{12}, \frac{2}{181}\sqrt{21}e^{13}, \frac{18}{181}e^{16} + \frac{4}{181}\sqrt{10}e^{23},$ $\frac{2}{181}e^{26} + \frac{18}{181}e^{34}$	$(-\frac{1}{181}, -\frac{1}{181}, -\frac{2}{181}, -\frac{1}{181}, \frac{18}{181}, -\frac{2}{181}, -\frac{3}{181}, -\frac{3}{181}, -\frac{3}{181})$ $+ \frac{2}{181}\sqrt{101}e^1 \otimes e_9 + \frac{2}{181}\sqrt{62}e^4 \otimes e_8$	{134567, 13467, 235689, 23689}
942:19	$0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246}e^{12}, \frac{37}{913}\sqrt{114}e^{13},$ $\frac{222}{4565}\sqrt{94}e^{16} + \frac{37}{913}\sqrt{30}e^{23}, \frac{37}{4565}\sqrt{1622}e^{26} + \frac{222}{4565}\sqrt{119}e^{34}$	$(-\frac{333}{4565}, \frac{74}{913}, -\frac{666}{4565}, \frac{1073}{4565}, \frac{1776}{4565}, \frac{37}{4565}, -\frac{999}{4565}, -\frac{296}{4565}, \frac{37}{415})$ $+ \frac{222}{913}\sqrt{3}e^5 \otimes e_9 + \frac{37}{4565}\sqrt{5578}e^4 \otimes e_8$	{1258, 479}
942:19	$0, 0, 0, 0, 0, \frac{6}{2147}\sqrt{3982}e^{12}, \frac{2}{2147}\sqrt{487614}e^{13},$ $\frac{2}{2147}\sqrt{852510}e^{16} + \frac{2}{2147}\sqrt{737394}e^{23}, \frac{12}{2147}\sqrt{13213}e^{26} + \frac{2}{2147}\sqrt{194394}e^{34}$	$(-\frac{40}{2147}, \frac{55}{2147}, -\frac{80}{2147}, \frac{150}{2147}, \frac{1}{2147}, \frac{15}{2147}, -\frac{120}{2147}, -\frac{25}{2147}, \frac{70}{2147})$ $+ \frac{12}{2147}\sqrt{54843}e^5 \otimes e_8$	{128, 156, 246789, 4579}
942:19	$0, 0, 0, 0, 0, \frac{4}{653}\sqrt{7}e^{12}, \frac{4}{653}\sqrt{41}e^{13}, \frac{1}{653}\sqrt{494}e^{16} + \frac{1}{653}\sqrt{438}e^{23},$ $\frac{2}{653}\sqrt{109}e^{26} + \frac{1}{653}\sqrt{494}e^{34}$	$(-\frac{1}{653}, -\frac{2}{653}, -\frac{2}{653}, -\frac{3}{653}, \frac{24}{653}, -\frac{3}{653}, -\frac{3}{653}, -\frac{4}{653}, -\frac{5}{653})$ $+ \frac{1}{653}\sqrt{710}e^2 \otimes e_7 + \frac{2}{653}\sqrt{137}e^3 \otimes e_4$	{1457, 147}
942:19	$0, 0, 0, 0, 0, \frac{96}{2479}e^{12}, \frac{32}{2479}\sqrt{429}e^{13}, \frac{32}{2479}\sqrt{707}e^{16} + \frac{32}{2479}\sqrt{645}e^{23},$ $\frac{32}{2479}\sqrt{719}e^{26} + \frac{32}{2479}\sqrt{994}e^{34}$	$(-\frac{80}{2479}, \frac{272}{2479}, -\frac{160}{2479}, \frac{624}{2479}, -\frac{672}{2479}, \frac{192}{2479}, -\frac{240}{2479}, \frac{112}{2479}, \frac{464}{2479})$ $+ \frac{32}{2479}\sqrt{1429}e^4 \otimes e_8 + \frac{32}{2479}\sqrt{861}e^3 \otimes e_5$	{13789, 234}
942:19	$0, 0, 0, 0, 0, \frac{41}{479}\sqrt{10}e^{12}, \frac{492}{3353}\sqrt{14}e^{13},$ $\frac{492}{3353}\sqrt{3}e^{16} + \frac{41}{3353}\sqrt{354}e^{23}, \frac{41}{3353}\sqrt{174}e^{26} + \frac{41}{3353}\sqrt{618}e^{34}$	$(\frac{451}{3353}, -\frac{164}{3353}, \frac{902}{3353}, -\frac{779}{3353}, -\frac{1230}{3353}, \frac{41}{3353}, \frac{1353}{3353}, \frac{738}{3353}, \frac{123}{3353})$ $+ \frac{41}{3353}\sqrt{2866}e^3 \otimes e_4 + \frac{615}{3353}\sqrt{14}e^1 \otimes e_5$	{24568, 45}
942:19	$0, 0, 0, 0, 0, \frac{10}{53}\sqrt{3}e^{12}, \frac{10}{53}\sqrt{10}e^{13}, \frac{5}{53}\sqrt{30}e^{16} + \frac{15}{53}\sqrt{2}e^{23},$ $\frac{10}{53}\sqrt{11}e^{26} + \frac{5}{53}\sqrt{26}e^{34}$	$(-\frac{5}{53}, \frac{10}{53}, -\frac{10}{53}, \frac{25}{53}, 0, \frac{5}{53}, -\frac{15}{53}, 0, \frac{15}{53})$ $+ \frac{10}{53}\sqrt{3}e^4 \otimes e_5 + \frac{5}{53}\sqrt{82}e^2 \otimes e_7$	{12349, 3578}
942:19	$0, 0, 0, 0, 0, \frac{94}{3557}\sqrt{194}e^{12}, \frac{188}{3557}\sqrt{114}e^{13},$ $\frac{94}{3557}\sqrt{295}e^{16} + \frac{47}{3557}\sqrt{1218}e^{23}, \frac{94}{3557}\sqrt{303}e^{26} + \frac{47}{3557}\sqrt{290}e^{34}$	$(\frac{423}{3557}, -\frac{470}{3557}, \frac{846}{3557}, -\frac{1363}{3557}, \frac{1692}{3557}, -\frac{47}{3557}, \frac{1269}{3557}, \frac{376}{3557}, -\frac{517}{3557})$ $+ \frac{47}{3557}\sqrt{2670}e^5 \otimes e_9 + \frac{47}{3557}\sqrt{3730}e^3 \otimes e_4$	{1245678, 1457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:19	$0, 0, 0, 0, 0, \frac{12}{1081}\sqrt{2094}e^{12}, \frac{1}{1081}\sqrt{588414}e^{13},$ $\frac{12}{1081}\sqrt{1745}e^{16} + \frac{1}{1081}\sqrt{663798}e^{23}, \frac{12}{1081}\sqrt{1047}e^{26} + \frac{1}{1081}\sqrt{387390}e^{34}$	$(\frac{149}{1081}, \frac{65}{1081}, \frac{298}{1081}, -\frac{19}{1081}, -\frac{749}{1081}, \frac{214}{1081}, \frac{447}{1081}, \frac{363}{1081}, \frac{279}{1081})$ $+ \frac{3}{1081}\sqrt{212890}e^3 \otimes e_5$	{12456789, 14579, 258, 56}
942:19	$0, 0, 0, 0, 0, \frac{930}{4157}\sqrt{2}e^{12}, \frac{93}{4157}\sqrt{190}e^{13},$ $\frac{62}{4157}\sqrt{1003}e^{16} + \frac{31}{4157}\sqrt{102}e^{23}, \frac{31}{4157}\sqrt{2114}e^{26} + \frac{248}{4157}\sqrt{47}e^{34}$	$(-\frac{155}{4157}, \frac{496}{4157}, -\frac{310}{4157}, \frac{1147}{4157}, -\frac{1116}{4157}, \frac{341}{4157}, -\frac{465}{4157}, \frac{186}{4157}, \frac{837}{4157})$ $+ \frac{31}{4157}\sqrt{4522}e^4 \otimes e_8 + \frac{62}{4157}\sqrt{753}e^1 \otimes e_5$	{128, 4579}
942:19	$0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246}e^{12}, \frac{74}{4565}\sqrt{682}e^{13},$ $\frac{37}{4565}\sqrt{2194}e^{16} + \frac{37}{913}\sqrt{30}e^{23}, \frac{74}{4565}\sqrt{989}e^{26} + \frac{37}{4565}\sqrt{1294}e^{34}$	$(-\frac{333}{4565}, \frac{74}{913}, -\frac{666}{4565}, \frac{1073}{4565}, \frac{1776}{4565}, \frac{37}{4565}, -\frac{999}{4565}, -\frac{296}{4565}, \frac{37}{415})$ $+ \frac{222}{913}\sqrt{3}e^5 \otimes e_9 + \frac{37}{4565}\sqrt{5578}e^2 \otimes e_7$	{12349, 3578}
942:19	$0, 0, 0, 0, 0, \frac{2}{737}\sqrt{61858}e^{12}, \frac{2}{737}\sqrt{5966}e^{13},$ $\frac{2}{737}\sqrt{29830}e^{16} + \frac{2}{737}\sqrt{51810}e^{23}, \frac{4}{737}\sqrt{19939}e^{26} + \frac{2}{737}\sqrt{29830}e^{34}$	$(\frac{32}{737}, \frac{11}{67}, \frac{64}{737}, \frac{210}{737}, -\frac{507}{737}, \frac{153}{737}, \frac{96}{737}, \frac{185}{737}, \frac{274}{737})$ $+ \frac{4}{737}\sqrt{48827}e^2 \otimes e_5$	{123479, 13456789, 236, 358}
942:19	$0, 0, 0, 0, 0, \frac{12}{2213}\sqrt{12557}e^{12}, \frac{2}{2213}\sqrt{517002}e^{13},$ $\frac{2}{2213}\sqrt{574158}e^{16} + \frac{2}{2213}\sqrt{333843}e^{23}, \frac{6}{2213}\sqrt{40702}e^{26} + \frac{30}{2213}\sqrt{6062}e^{34}$	$(-\frac{3}{2213}, \frac{580}{2213}, -\frac{6}{2213}, \frac{1163}{2213}, -\frac{1435}{2213}, \frac{577}{2213}, -\frac{9}{2213}, \frac{574}{2213}, \frac{1157}{2213})$ $+ \frac{24}{2213}\sqrt{16454}e^4 \otimes e_5$	{123478, 13467, 235689, 359}
942:19	$0, 0, 0, 0, 0, \frac{6}{2285}\sqrt{84970}e^{12}, \frac{8}{2285}\sqrt{16701}e^{13},$ $\frac{4}{2285}\sqrt{194259}e^{16} + \frac{2}{2285}\sqrt{552891}e^{23}, \frac{6}{2285}\sqrt{4102}e^{26} + \frac{4}{2285}\sqrt{54498}e^{34}$	$(\frac{227}{2285}, \frac{178}{2285}, \frac{454}{2285}, \frac{129}{2285}, -\frac{1531}{2285}, \frac{81}{457}, \frac{681}{2285}, \frac{632}{2285}, \frac{583}{2285})$ $+ \frac{12}{2285}\sqrt{46587}e^1 \otimes e_5$	{12348, 1346, 2356789, 3579}
942:19	$0, 0, 0, 0, 0, \frac{96}{2479}e^{12}, \frac{320}{2479}\sqrt{10}e^{13}, \frac{608}{2479}\sqrt{2}e^{16} + \frac{32}{2479}\sqrt{645}e^{23},$ $\frac{32}{2479}\sqrt{710}e^{26} + \frac{32}{2479}\sqrt{435}e^{34}$	$(-\frac{80}{2479}, \frac{272}{2479}, -\frac{160}{2479}, \frac{624}{2479}, -\frac{672}{2479}, \frac{192}{2479}, -\frac{240}{2479}, \frac{112}{2479}, \frac{464}{2479})$ $+ \frac{32}{2479}\sqrt{1429}e^2 \otimes e_7 + \frac{32}{2479}\sqrt{861}e^3 \otimes e_5$	{1457, 2589}
942:20	$0, 0, 0, 0, 0, \frac{9}{353}\sqrt{79}e^{12}, \frac{9}{706}\sqrt{506}e^{13}, \frac{27}{706}\sqrt{10}e^{14} + \frac{9}{353}\sqrt{298}e^{26},$ $\frac{9}{706}\sqrt{662}e^{16} + \frac{9}{353}\sqrt{166}e^{34}$	$(\frac{27}{353}, -\frac{18}{353}, \frac{72}{353}, -\frac{36}{353}, -\frac{99}{353}, \frac{9}{353}, \frac{99}{353}, -\frac{9}{353}, \frac{36}{353})$ $+ \frac{63}{706}\sqrt{22}e^2 \otimes e_5 + \frac{9}{353}\sqrt{365}e^3 \otimes e_8$	{1456789, 23467}
942:20	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{2}e^{12}, \frac{4}{11}e^{13}, \frac{2}{11}\sqrt{3}e^{14} + \frac{4}{11}e^{26},$ $\frac{2}{11}\sqrt{2}e^{16} + \frac{2}{11}\sqrt{2}e^{34}$	$(0, \frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{3}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, \frac{1}{11})$ $+ \frac{2}{11}\sqrt{6}e^2 \otimes e_7 + \frac{4}{11}e^3 \otimes e_5$	{12348, 1456789}
942:20	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{7426}e^{12}, \frac{4}{293}\sqrt{2054}e^{13}, \frac{2}{293}\sqrt{7347}e^{14} + \frac{24}{293}\sqrt{79}e^{26},$ $\frac{2}{293}\sqrt{3634}e^{16} + \frac{2}{293}\sqrt{2054}e^{34}$	$(-\frac{16}{293}, \frac{55}{293}, -\frac{87}{293}, \frac{110}{293}, \frac{43}{293}, \frac{39}{293}, -\frac{103}{293}, \frac{94}{293}, \frac{23}{293})$ $+ \frac{10}{293}\sqrt{790}e^2 \otimes e_7$	{123458, 12348, 1456789, 146789}
942:20	$0, 0, 0, 0, 0, \frac{129}{7141}\sqrt{202}e^{12}, \frac{43}{7141}\sqrt{5538}e^{13},$ $\frac{43}{7141}\sqrt{1146}e^{14} + \frac{43}{7141}\sqrt{4166}e^{26}, \frac{86}{7141}\sqrt{995}e^{16} + \frac{172}{7141}\sqrt{145}e^{34}$	$(\frac{172}{7141}, -\frac{559}{7141}, \frac{903}{7141}, -\frac{1118}{7141}, \frac{2924}{7141}, -\frac{387}{7141}, \frac{1075}{7141}, -\frac{946}{7141}, -\frac{215}{7141})$ $+ \frac{43}{7141}\sqrt{4618}e^5 \otimes e_7 + \frac{43}{7141}\sqrt{8434}e^3 \otimes e_8$	{1345, 24589}
942:20	$0, 0, 0, 0, 0, \frac{72}{1219}\sqrt{30}e^{12}, \frac{18}{1219}\sqrt{615}e^{13},$ $\frac{36}{1219}\sqrt{285}e^{14} + \frac{18}{1219}\sqrt{498}e^{26}, \frac{18}{1219}\sqrt{771}e^{16} + \frac{90}{1219}\sqrt{15}e^{34}$	$(-\frac{63}{1219}, \frac{99}{1219}, -\frac{225}{1219}, \frac{198}{1219}, \frac{27}{53}, \frac{36}{1219}, -\frac{288}{1219}, \frac{135}{1219}, -\frac{27}{1219})$ $+ \frac{108}{1219}\sqrt{43}e^5 \otimes e_8 + \frac{18}{1219}\sqrt{1794}e^4 \otimes e_7$	{1345, 2489}
942:20	$0, 0, 0, 0, 0, \frac{20}{2593}\sqrt{2127}e^{12}, \frac{18}{2593}\sqrt{7799}e^{13},$ $\frac{4}{2593}\sqrt{65937}e^{14} + \frac{2}{2593}\sqrt{735942}e^{26}, \frac{2}{2593}\sqrt{633137}e^{16} + \frac{2}{2593}\sqrt{525369}e^{34}$	$(\frac{293}{2593}, -\frac{375}{2593}, \frac{961}{2593}, -\frac{750}{2593}, \frac{363}{2593}, -\frac{82}{2593}, \frac{1254}{2593}, -\frac{457}{2593}, \frac{211}{2593})$ $+ \frac{2}{2593}\sqrt{1581070}e^3 \otimes e_8$	{134, 1345, 24589, 2489}
942:20	$0, 0, 0, 0, 0, \frac{2}{2517}\sqrt{248218}e^{12}, \frac{2}{2517}\sqrt{1630698}e^{13},$ $\frac{2}{2517}\sqrt{215227}e^{14} + \frac{4}{2517}\sqrt{102115}e^{26}, \frac{4}{839}\sqrt{9426}e^{16} + \frac{2}{2517}\sqrt{135106}e^{34}$	$(-\frac{100}{2517}, \frac{325}{2517}, -\frac{175}{839}, \frac{650}{2517}, 1, \frac{75}{839}, -\frac{625}{2517}, \frac{550}{2517}, \frac{125}{2517})$ $+ \frac{2}{2517}\sqrt{3283390}e^5 \otimes e_7$	{12679, 135, 2589, 3678}
942:20	$0, 0, 0, 0, 0, \frac{74}{5221}\sqrt{719}e^{12}, \frac{74}{5221}\sqrt{717}e^{13},$ $\frac{37}{5221}\sqrt{1054}e^{14} + \frac{37}{5221}\sqrt{2402}e^{26}, \frac{296}{5221}\sqrt{6}e^{16} + \frac{148}{5221}\sqrt{23}e^{34}$	$(-\frac{37}{5221}, \frac{629}{5221}, -\frac{703}{5221}, \frac{1258}{5221}, -\frac{1406}{5221}, \frac{592}{5221}, -\frac{740}{5221}, \frac{1221}{5221}, \frac{555}{5221})$ $+ \frac{111}{5221}\sqrt{434}e^1 \otimes e_5 + \frac{37}{5221}\sqrt{5442}e^2 \otimes e_7$	{123489, 14678}
942:20	$0, 0, 0, 0, 0, \frac{37}{7021}\sqrt{1486}e^{12}, \frac{37}{7021}\sqrt{2338}e^{13},$ $\frac{74}{7021}\sqrt{815}e^{14} + \frac{37}{7021}\sqrt{3218}e^{26}, \frac{37}{7021}\sqrt{3934}e^{16} + \frac{37}{7021}\sqrt{4126}e^{34}$	$(\frac{481}{7021}, -\frac{296}{7021}, \frac{74}{413}, -\frac{592}{7021}, -\frac{1961}{7021}, \frac{185}{7021}, \frac{1739}{7021}, -\frac{111}{7021}, \frac{666}{7021})$ $+ \frac{148}{1003}\sqrt{10}e^3 \otimes e_8 + \frac{37}{7021}\sqrt{5062}e^4 \otimes e_5$	{134, 2489}
942:20	$0, 0, 0, 0, 0, \frac{3}{2081}\sqrt{694}e^{12}, \frac{3}{2081}\sqrt{1411}e^{13},$ $\frac{3}{2081}\sqrt{929}e^{14} + \frac{6}{2081}\sqrt{241}e^{26}, \frac{3}{2081}\sqrt{1370}e^{16} + \frac{6}{2081}\sqrt{266}e^{34}$	$(-\frac{9}{2081}, -\frac{6}{2081}, -\frac{12}{2081}, -\frac{12}{2081}, \frac{129}{2081}, -\frac{15}{2081}, -\frac{21}{2081}, -\frac{21}{2081}, -\frac{24}{2081})$ $- \frac{3}{2081}\sqrt{1711}e^4 \otimes e_7 + \frac{3}{2081}\sqrt{2193}e^3 \otimes e_8$	{134, 1345, 24589, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:20	$0, 0, 0, 0, 0, \frac{3}{2081}\sqrt{694e^{12}}, \frac{3}{2081}\sqrt{1411e^{13}},$ $\frac{3}{2081}\sqrt{929e^{14}} + \frac{6}{2081}\sqrt{241e^{26}}, \frac{3}{2081}\sqrt{1370e^{16}} + \frac{6}{2081}\sqrt{266e^{34}}$	$(-\frac{9}{2081}, -\frac{6}{2081}, -\frac{12}{2081}, -\frac{12}{2081}, \frac{129}{2081}, -\frac{15}{2081}, -\frac{21}{2081}, -\frac{21}{2081}, -\frac{24}{2081})$ $+\frac{3}{2081}\sqrt{1711e^4} \otimes e_7 + \frac{3}{2081}\sqrt{2193e^3} \otimes e_8$	{134, 1345, 24589, 2489}
942:20	$0, 0, 0, 0, 0, \frac{205}{3589}\sqrt{66e^{12}}, \frac{533}{3589}\sqrt{10e^{13}},$ $\frac{410}{3589}\sqrt{11e^{14}} + \frac{41}{3589}\sqrt{2578e^{26}}, \frac{41}{3589}\sqrt{1094e^{16}} + \frac{533}{3589}\sqrt{6e^{34}}$	$(-\frac{123}{3589}, \frac{656}{3589}, -\frac{902}{3589}, \frac{1312}{3589}, -\frac{369}{3589}, \frac{533}{3589}, -\frac{1025}{3589}, \frac{1189}{3589}, \frac{410}{3589})$ $+\frac{123}{3589}\sqrt{182e^4} \otimes e_5 + \frac{164}{3589}\sqrt{290e^2} \otimes e_7$	{12348, 146789}
942:20	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{3074e^{12}}, \frac{2}{133}\sqrt{318e^{13}}, \frac{2}{133}\sqrt{1855e^{14}} + \frac{2}{133}\sqrt{3074e^{26}},$ $\frac{2}{133}\sqrt{318e^{16}} + \frac{2}{133}\sqrt{1219e^{34}}$	$(\frac{11}{133}, \frac{17}{133}, \frac{5}{133}, \frac{34}{133}, \frac{89}{133}, \frac{4}{133}, \frac{16}{133}, \frac{45}{133}, \frac{39}{133})$ $+\frac{2}{133}\sqrt{5883e^2} \otimes e_5$	{123478, 145689, 2346, 4579}
942:20	$0, 0, 0, 0, 0, \frac{7}{6637}\sqrt{1174e^{12}}, \frac{7}{6637}\sqrt{4862e^{13}},$ $\frac{14}{6637}\sqrt{303e^{14}} + \frac{7}{6637}\sqrt{6054e^{26}}, \frac{14}{6637}\sqrt{919e^{16}} + \frac{7}{6637}\sqrt{2402e^{34}}$	$(-\frac{35}{6637}, -\frac{28}{6637}, -\frac{42}{6637}, -\frac{56}{6637}, \frac{539}{6637}, -\frac{63}{6637}, -\frac{77}{6637}, -\frac{91}{6637}, -\frac{98}{6637})$ $+\frac{21}{6637}\sqrt{678e^3} \otimes e_8 + \frac{7}{6637}\sqrt{6094e^2} \otimes e_7$	{1456789, 146789}
942:20	$0, 0, 0, 0, 0, \frac{48}{2993}\sqrt{763e^{14}} + \frac{48}{2993}\sqrt{214e^{26}}, \frac{48}{2993}\sqrt{170e^{16}} + \frac{48}{2993}\sqrt{5e^{34}}$	$(\frac{24}{2993}, \frac{408}{2993}, -\frac{360}{2993}, \frac{816}{2993}, -\frac{1128}{2993}, \frac{432}{2993}, -\frac{336}{2993}, \frac{840}{2993}, \frac{456}{2993})$ $+\frac{48}{2993}\sqrt{1283e^4} \otimes e_7 + \frac{48}{2993}\sqrt{1419e^4} \otimes e_5$	{12349, 458}
942:20	$0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3e^{12}}, \frac{4}{339}\sqrt{1338e^{13}}, \frac{8}{339}\sqrt{69e^{14}} + \frac{4}{339}\sqrt{318e^{26}},$ $\frac{16}{339}\sqrt{57e^{16}} + \frac{4}{339}\sqrt{1122e^{34}}$	$(\frac{4}{339}, \frac{12}{113}, -\frac{28}{339}, \frac{24}{113}, -\frac{124}{339}, \frac{40}{339}, -\frac{8}{113}, \frac{76}{339}, \frac{44}{339})$ $+\frac{24}{113}\sqrt{6e^4} \otimes e_7 + \frac{4}{339}\sqrt{1806e^3} \otimes e_5$	{134, 24589}
942:20	$0, 0, 0, 0, 0, \frac{35}{363}\sqrt{3e^{12}}, \frac{7}{363}\sqrt{381e^{13}}, \frac{7}{363}\sqrt{93e^{14}} + \frac{56}{121}e^{26},$ $\frac{14}{363}\sqrt{69e^{16}} + \frac{14}{363}\sqrt{165e^{34}}$	$(\frac{7}{121}, -\frac{14}{121}, \frac{28}{121}, -\frac{28}{121}, \frac{49}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{21}{121}, 0)$ $+\frac{7}{363}\sqrt{633e^5} \otimes e_9 + \frac{84}{121}e^3 \otimes e_8$	{1345, 2489}
942:20	$0, 0, 0, 0, 0, \frac{12}{59}\sqrt{6e^{12}}, \frac{6}{59}\sqrt{51e^{13}}, \frac{24}{59}\sqrt{3e^{14}} + \frac{6}{59}\sqrt{6e^{26}},$ $\frac{6}{59}\sqrt{39e^{16}} + \frac{6}{59}\sqrt{39e^{34}}$	$(-\frac{3}{59}, \frac{15}{59}, -\frac{21}{59}, \frac{30}{59}, \frac{9}{59}, \frac{12}{59}, -\frac{24}{59}, \frac{27}{59}, \frac{9}{59})$ $+\frac{30}{59}\sqrt{6e^4} \otimes e_7$	{134, 1345, 24589, 2489}
942:20	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{23e^{12}}, \frac{3}{68}\sqrt{58e^{13}}, \frac{3}{68}\sqrt{10e^{14}} + \frac{3}{34}\sqrt{34e^{26}},$ $\frac{3}{68}\sqrt{74e^{16}} + \frac{3}{34}\sqrt{26e^{34}}$	$(0, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17})$ $+\frac{3}{34}\sqrt{55e^4} \otimes e_7 + \frac{3}{68}\sqrt{258e^2} \otimes e_5$	{12348, 459}
942:20	$0, 0, 0, 0, 0, \frac{4}{851}\sqrt{5093e^{12}}, \frac{2}{851}\sqrt{8797e^{13}},$ $\frac{2}{851}\sqrt{117602e^{14}} + \frac{8}{851}\sqrt{6945e^{26}}, \frac{2}{851}\sqrt{56949e^{16}} + \frac{2}{851}\sqrt{1389e^{34}}$	$(\frac{35}{851}, -\frac{55}{851}, \frac{125}{851}, -\frac{110}{851}, 1, -\frac{20}{851}, \frac{160}{851}, -\frac{75}{851}, \frac{15}{851})$ $+\frac{2}{851}\sqrt{328730e^5} \otimes e_8$	{1234569, 1457, 234789, 468}
942:20	$0, 0, 0, 0, 0, \frac{43}{5917}\sqrt{1174e^{14}} + \frac{2150}{5917}\sqrt{2e^{26}}, \frac{86}{5917}\sqrt{498e^{16}} + \frac{86}{5917}\sqrt{127e^{34}}$	$(-\frac{301}{5917}, \frac{473}{5917}, -\frac{1075}{5917}, \frac{946}{5917}, \frac{2494}{5917}, \frac{172}{5917}, -\frac{1376}{5917}, \frac{645}{5917}, -\frac{129}{5917})$ $+\frac{129}{5917}\sqrt{418e^5} \otimes e_8 + \frac{43}{5917}\sqrt{6846e^2} \otimes e_7$	{12348, 146789}
942:20	$0, 0, 0, 0, 0, \frac{76}{2101}\sqrt{3e^{12}}, \frac{342}{2101}\sqrt{7e^{13}}, \frac{76}{2101}\sqrt{93e^{14}} + \frac{38}{2101}\sqrt{390e^{26}},$ $\frac{38}{2101}\sqrt{185e^{16}} + \frac{38}{2101}\sqrt{201e^{34}}$	$(\frac{19}{191}, -\frac{171}{2101}, \frac{589}{2101}, -\frac{342}{2101}, -\frac{513}{2101}, \frac{38}{2101}, \frac{798}{2101}, -\frac{133}{2101}, \frac{247}{2101})$ $+\frac{38}{2101}\sqrt{1126e^3} \otimes e_8 + \frac{76}{2101}\sqrt{186e^1} \otimes e_5$	{1278, 3579}
942:20	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{134e^{12}}, \frac{1}{63}\sqrt{938e^{13}}, \frac{2}{63}\sqrt{670e^{14}} + \frac{1}{63}\sqrt{134e^{26}},$ $\frac{1}{63}\sqrt{938e^{16}} + \frac{1}{63}\sqrt{2546e^{34}}$	$(\frac{5}{63}, \frac{4}{21}, -\frac{2}{63}, \frac{8}{21}, -\frac{43}{63}, \frac{17}{63}, \frac{1}{21}, \frac{29}{63}, \frac{22}{63})$ $+\frac{1}{63}\sqrt{7102e^4} \otimes e_5$	{12356789, 158, 2359, 567}
942:20	$0, 0, 0, 0, 0, \frac{2}{2593}\sqrt{589538e^{12}}, \frac{10}{2593}\sqrt{15735e^{13}},$ $\frac{4}{2593}\sqrt{139517e^{14}} + \frac{2}{2593}\sqrt{329386e^{26}}, \frac{2}{2593}\sqrt{852837e^{16}} + \frac{2}{2593}\sqrt{460511e^{34}}$	$(\frac{311}{2593}, \frac{155}{2593}, \frac{467}{2593}, \frac{310}{2593}, -\frac{1787}{2593}, \frac{466}{2593}, \frac{778}{2593}, \frac{621}{2593}, \frac{777}{2593})$ $+\frac{2}{2593}\sqrt{2297310e^1} \otimes e_5$	{12349, 1467, 23456789, 458}
942:21	$0, 0, 0, 0, 0, \frac{10}{109}\sqrt{6e^{12}}, \frac{5}{763}\sqrt{1106e^{13}}, \frac{5}{763}\sqrt{1414e^{16}} + \frac{30}{763}\sqrt{91e^{24}},$ $\frac{5}{763}\sqrt{2226e^{26}} + \frac{5}{109}\sqrt{58e^{34}}$	$(-\frac{5}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{10}{109}, -\frac{35}{109}, \frac{5}{109}, \frac{20}{109}, 0, \frac{15}{109})$ $+\frac{30}{763}\sqrt{119e^4} \otimes e_5 + \frac{30}{763}\sqrt{154e^3} \otimes e_8$	{14789, 2347}
942:21	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{510e^{12}}, \frac{3}{166}\sqrt{690e^{13}}, \frac{3}{166}\sqrt{210e^{16}} + \frac{9}{166}\sqrt{110e^{24}},$ $\frac{3}{166}\sqrt{186e^{26}} + \frac{9}{83}\sqrt{2e^{34}}$	$(\frac{15}{166}, -\frac{6}{83}, -\frac{39}{166}, \frac{15}{83}, \frac{36}{83}, \frac{3}{166}, -\frac{12}{83}, \frac{9}{83}, -\frac{9}{166})$ $+\frac{3}{166}\sqrt{714e^5} \otimes e_8 - \frac{3}{83}\sqrt{282e^4} \otimes e_7$	{126789, 1579, 2378, 3567}
942:21	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{510e^{12}}, \frac{3}{166}\sqrt{690e^{13}}, \frac{3}{166}\sqrt{210e^{16}} + \frac{9}{166}\sqrt{110e^{24}},$ $\frac{3}{166}\sqrt{186e^{26}} + \frac{9}{83}\sqrt{2e^{34}}$	$(\frac{15}{166}, -\frac{6}{83}, -\frac{39}{166}, \frac{15}{83}, \frac{36}{83}, \frac{3}{166}, -\frac{12}{83}, \frac{9}{83}, -\frac{9}{166})$ $+\frac{3}{166}\sqrt{714e^5} \otimes e_8 + \frac{3}{83}\sqrt{282e^4} \otimes e_7$	{126789, 1579, 2378, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:21	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{2465}e^{12}, \frac{1}{133}\sqrt{24070}e^{13},$ $\frac{1}{133}\sqrt{11890}e^{16} + \frac{2}{133}\sqrt{2755}e^{24}, \frac{1}{133}\sqrt{6090}e^{26} + \frac{1}{133}\sqrt{11890}e^{34}$	$(\frac{11}{133}, -\frac{6}{133}, -\frac{23}{133}, \frac{22}{133}, 1, \frac{5}{133}, -\frac{12}{133}, \frac{16}{133}, -\frac{1}{133})$ $+ \frac{2}{133}\sqrt{8265}e^5 \otimes e_7$	{123568, 135, 2589, 569}
942:21	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{59690}e^{12}, \frac{4}{587}\sqrt{705}e^{13},$ $\frac{2}{587}\sqrt{62510}e^{16} + \frac{2}{587}\sqrt{38305}e^{24}, \frac{12}{587}\sqrt{235}e^{26} + \frac{2}{587}\sqrt{24205}e^{34}$	$(\frac{79}{587}, \frac{43}{587}, \frac{7}{587}, \frac{158}{587}, -\frac{391}{587}, \frac{122}{587}, \frac{86}{587}, \frac{201}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^1 \otimes e_5$	{123478, 13467, 2456789, 4579}
942:21	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{8041}e^{12}, \frac{4}{533}\sqrt{13287}e^{13},$ $\frac{4}{533}\sqrt{7826}e^{16} + \frac{4}{533}\sqrt{13502}e^{24}, \frac{4}{533}\sqrt{645}e^{26} + \frac{20}{533}\sqrt{43}e^{34}$	$(\frac{122}{533}, -\frac{50}{533}, \frac{222}{533}, \frac{244}{533}, \frac{62}{533}, \frac{72}{533}, -\frac{100}{533}, \frac{194}{533}, \frac{22}{533})$ $- \frac{4}{533}\sqrt{20253}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 23578, 2378, 3567, 367}
942:21	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{8041}e^{12}, \frac{4}{533}\sqrt{13287}e^{13},$ $\frac{4}{533}\sqrt{7826}e^{16} + \frac{4}{533}\sqrt{13502}e^{24}, \frac{4}{533}\sqrt{645}e^{26} + \frac{20}{533}\sqrt{43}e^{34}$	$(\frac{122}{533}, -\frac{50}{533}, \frac{222}{533}, \frac{244}{533}, \frac{62}{533}, \frac{72}{533}, -\frac{100}{533}, \frac{194}{533}, \frac{22}{533})$ $+ \frac{4}{533}\sqrt{20253}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 23578, 2378, 3567, 367}
942:21	$0, 0, 0, 0, 0, \frac{8}{517}\sqrt{37}e^{12}, \frac{4}{517}\sqrt{834}e^{13}, \frac{8}{517}\sqrt{165}e^{16} + \frac{8}{517}\sqrt{161}e^{24},$ $\frac{4}{517}\sqrt{570}e^{26} + \frac{8}{517}\sqrt{165}e^{34}$	$(\frac{21}{517}, -\frac{16}{517}, -\frac{53}{517}, \frac{42}{517}, \frac{34}{517}, \frac{517}{517}, -\frac{32}{517}, \frac{26}{517}, -\frac{1}{47})$ $+ \frac{4}{517}\sqrt{966}e^2 \otimes e_7$	{123568, 12368, 2589, 289}
942:21	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{57}e^{12}, \frac{1}{35}\sqrt{133}e^{13}, \frac{1}{35}\sqrt{817}e^{16} + \frac{1}{35}\sqrt{741}e^{24},$ $\frac{1}{35}\sqrt{399}e^{26} + \frac{2}{35}\sqrt{19}e^{34}$	$(-\frac{1}{14}, \frac{2}{35}, \frac{13}{70}, -\frac{1}{7}, 1, -\frac{1}{70}, \frac{4}{35}, -\frac{3}{35}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^5 \otimes e_8$	{124569, 1489, 2345, 3468}
942:21	$0, 0, 0, 0, 0, \frac{80}{1787}\sqrt{3}e^{12}, \frac{40}{1787}\sqrt{77}e^{13},$ $\frac{40}{1787}\sqrt{334}e^{16} + \frac{120}{1787}\sqrt{10}e^{24}, \frac{40}{1787}\sqrt{39}e^{26} + \frac{40}{1787}\sqrt{553}e^{34}$	$(-\frac{220}{1787}, \frac{140}{1787}, \frac{500}{1787}, -\frac{440}{1787}, \frac{860}{1787}, -\frac{80}{1787}, \frac{280}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+ \frac{120}{1787}\sqrt{103}e^3 \otimes e_8 + \frac{120}{1787}\sqrt{73}e^5 \otimes e_9$	{12578, 379}
942:21	$0, 0, 0, 0, 0, \frac{546}{1399}e^{12}, \frac{13}{1399}\sqrt{3462}e^{13}, \frac{13}{1399}\sqrt{114}e^{16} + \frac{78}{1399}\sqrt{71}e^{24},$ $\frac{13}{1399}\sqrt{534}e^{26} + \frac{13}{1399}\sqrt{114}e^{34}$	$(-\frac{143}{1399}, \frac{78}{1399}, \frac{299}{1399}, -\frac{286}{1399}, \frac{663}{1399}, -\frac{65}{1399}, \frac{156}{1399}, -\frac{208}{1399}, \frac{13}{1399})$ $+ \frac{104}{1399}\sqrt{69}e^3 \otimes e_8 + \frac{26}{1399}\sqrt{813}e^5 \otimes e_7$	{126789, 367}
942:21	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{37}e^{12}, \frac{3}{65}\sqrt{23}e^{13}, \frac{1}{65}\sqrt{163}e^{16} + \frac{1}{65}\sqrt{161}e^{24},$ $\frac{1}{65}\sqrt{141}e^{26} + \frac{2}{65}\sqrt{41}e^{34}$	$(\frac{1}{26}, -\frac{2}{65}, -\frac{1}{10}, \frac{1}{13}, \frac{1}{13}, \frac{1}{130}, -\frac{4}{65}, \frac{3}{65}, -\frac{3}{130})$ $+ \frac{1}{65}\sqrt{3}e^5 \otimes e_8 + \frac{4}{65}\sqrt{15}e^2 \otimes e_7$	{12368, 289}
942:21	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{57}e^{12}, \frac{1}{35}\sqrt{133}e^{13}, \frac{2}{35}\sqrt{19}e^{16} + \frac{1}{35}\sqrt{741}e^{24},$ $\frac{1}{35}\sqrt{399}e^{26} + \frac{1}{35}\sqrt{817}e^{34}$	$(\frac{29}{140}, \frac{2}{35}, -\frac{13}{140}, \frac{29}{70}, -\frac{47}{70}, \frac{37}{140}, \frac{4}{35}, \frac{33}{70}, \frac{9}{28})$ $+ \frac{3}{35}\sqrt{247}e^4 \otimes e_5$	{12469, 1489, 234, 3468}
942:21	$0, 0, 0, 0, 0, \frac{238}{2129}\sqrt{6}e^{12}, \frac{136}{2129}\sqrt{14}e^{13},$ $\frac{34}{2129}\sqrt{734}e^{16} + \frac{102}{2129}\sqrt{3}e^{24}, \frac{612}{2129}e^{26} + \frac{34}{2129}\sqrt{429}e^{34}$	$(-\frac{119}{2129}, \frac{221}{2129}, \frac{561}{2129}, -\frac{238}{2129}, -\frac{697}{2129}, \frac{102}{2129}, \frac{442}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+ \frac{34}{2129}\sqrt{915}e^1 \otimes e_5 + \frac{68}{2129}\sqrt{249}e^3 \otimes e_8$	{1278, 3579}
942:21	$0, 0, 0, 0, 0, \frac{10}{2797}\sqrt{193}e^{12}, \frac{50}{2797}\sqrt{42}e^{13},$ $\frac{10}{2797}\sqrt{805}e^{16} + \frac{10}{2797}\sqrt{773}e^{24}, \frac{5}{2797}\sqrt{2706}e^{26} + \frac{5}{2797}\sqrt{3014}e^{34}$	$(\frac{65}{2797}, -\frac{25}{2797}, -\frac{115}{2797}, \frac{130}{2797}, -\frac{140}{2797}, \frac{40}{2797}, -\frac{50}{2797}, \frac{105}{2797}, \frac{15}{2797})$ $+ \frac{5}{2797}\sqrt{4638}e^2 \otimes e_7 + \frac{5}{2797}\sqrt{618}e^3 \otimes e_5$	{12368, 2589}
942:21	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{413}e^{12}, \frac{3}{71}\sqrt{118}e^{13}, \frac{1}{71}\sqrt{1770}e^{16} + \frac{2}{71}\sqrt{590}e^{24},$ $\frac{3}{71}\sqrt{354}e^{26} + \frac{1}{71}\sqrt{1770}e^{34}$	$(\frac{3}{71}, \frac{10}{71}, \frac{17}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{13}{71}, \frac{20}{71}, \frac{16}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770}e^2 \otimes e_5$	{12349, 1345689, 246, 458}
942:21	$0, 0, 0, 0, 0, \frac{14}{1741}\sqrt{97}e^{12}, \frac{14}{1741}\sqrt{663}e^{13},$ $\frac{7}{1741}\sqrt{2014}e^{16} + \frac{7}{1741}\sqrt{1994}e^{24}, \frac{210}{1741}\sqrt{2}e^{26} + \frac{14}{1741}\sqrt{518}e^{34}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{63}{1741}\sqrt{38}e^2 \otimes e_7 + \frac{7}{1741}\sqrt{174}e^1 \otimes e_5$	{12368, 2589}
942:21	$0, 0, 0, 0, 0, \frac{180}{469}e^{12}, \frac{36}{469}\sqrt{47}e^{13}, \frac{12}{469}\sqrt{258}e^{16} + \frac{12}{469}\sqrt{390}e^{24},$ $\frac{36}{469}\sqrt{11}e^{26} + \frac{12}{469}\sqrt{165}e^{34}$	$(\frac{66}{469}, -\frac{6}{469}, -\frac{150}{469}, \frac{132}{469}, \frac{198}{469}, \frac{24}{469}, -\frac{12}{469}, \frac{90}{469}, -\frac{18}{469})$ $+ \frac{12}{469}\sqrt{813}e^4 \otimes e_7 + \frac{24}{469}\sqrt{114}e^5 \otimes e_9$	{125678, 157, 23789, 3679}
942:21	$0, 0, 0, 0, 0, \frac{180}{469}e^{12}, \frac{36}{469}\sqrt{47}e^{13}, \frac{12}{469}\sqrt{258}e^{16} + \frac{12}{469}\sqrt{390}e^{24},$ $\frac{36}{469}\sqrt{11}e^{26} + \frac{12}{469}\sqrt{165}e^{34}$	$(\frac{66}{469}, -\frac{6}{469}, -\frac{150}{469}, \frac{132}{469}, \frac{198}{469}, \frac{24}{469}, -\frac{12}{469}, \frac{90}{469}, -\frac{18}{469})$ $- \frac{12}{469}\sqrt{813}e^4 \otimes e_7 + \frac{24}{469}\sqrt{114}e^5 \otimes e_9$	{125678, 157, 23789, 3679}
942:21	$0, 0, 0, 0, 0, \frac{1}{661}\sqrt{582}e^{12}, \frac{2}{661}\sqrt{714}e^{13}, \frac{1}{661}\sqrt{2010}e^{16} + \frac{3}{661}\sqrt{254}e^{24},$ $\frac{3}{661}\sqrt{190}e^{26} + \frac{1}{661}\sqrt{2010}e^{34}$	$(-\frac{2}{661}, -\frac{3}{661}, -\frac{4}{661}, -\frac{4}{661}, \frac{42}{661}, \frac{5}{661}, -\frac{6}{661}, -\frac{7}{661}, -\frac{8}{661})$ $+ \frac{1}{661}\sqrt{570}e^3 \otimes e_8 + \frac{2}{661}\sqrt{786}e^2 \otimes e_7$	{2589, 289}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:21	$0, 0, 0, 0, 0, \frac{11}{287}\sqrt{114e^{12}}, \frac{2}{287}\sqrt{6479e^{13}}, \frac{1}{287}\sqrt{28006e^{16}} + \frac{9}{287}\sqrt{418e^{24}},$ $\frac{19}{287}\sqrt{66e^{26}} + \frac{1}{287}\sqrt{28006e^{34}}$	$(-\frac{52}{287}, \frac{53}{287}, \frac{158}{287}, -\frac{104}{287}, \frac{44}{287}, \frac{1}{287}, \frac{106}{287}, -\frac{51}{287}, \frac{54}{287})$ $+\frac{9}{287}\sqrt{1254e^3} \otimes e_8$	{145789, 14789, 23457, 2347}
942:21	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{37e^{12}}, \frac{3}{65}\sqrt{23e^{13}}, \frac{2}{65}\sqrt{41e^{16}} + \frac{1}{65}\sqrt{161e^{24}},$ $\frac{1}{65}\sqrt{141e^{26}} + \frac{1}{65}\sqrt{163e^{34}}$	$(\frac{11}{260}, -\frac{2}{65}, -\frac{27}{260}, \frac{11}{130}, \frac{7}{130}, \frac{2}{60}, -\frac{4}{65}, \frac{7}{130}, -\frac{1}{52})$ $+\frac{1}{65}\sqrt{3e^4} \otimes e_5 + \frac{4}{65}\sqrt{15e^2} \otimes e_7$	{123568, 2589}
942:21	$0, 0, 0, 0, 0, \frac{34}{575}\sqrt{123e^{12}}, \frac{136}{575}\sqrt{7e^{13}}, \frac{68}{575}\sqrt{19e^{16}} + \frac{34}{575}\sqrt{159e^{24}},$ $\frac{34}{575}\sqrt{141e^{26}} + \frac{34}{575}\sqrt{235e^{34}}$	$(\frac{11}{575}, -\frac{7}{575}, -\frac{1}{23}, \frac{22}{575}, \frac{1}{575}, \frac{4}{575}, -\frac{14}{575}, \frac{3}{115}, -\frac{3}{575})$ $+\frac{102}{575}\sqrt{53e^5} \otimes e_9$	{12489, 1469, 234568, 345}
942:21	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{6e^{12}}, \frac{3}{61}\sqrt{66e^{13}}, \frac{3}{61}\sqrt{6e^{16}} + \frac{18}{61}\sqrt{3e^{24}},$ $\frac{6}{61}\sqrt{6e^{26}} + \frac{3}{61}\sqrt{6e^{34}}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, -\frac{18}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+\frac{15}{61}\sqrt{6e^2} \otimes e_5 + \frac{3}{61}\sqrt{174e^3} \otimes e_8$	{13569, 268}
942:21	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{562e^{12}}, \frac{70}{1741}\sqrt{30e^{13}},$ $\frac{7}{1741}\sqrt{2362e^{16}} + \frac{7}{1741}\sqrt{2342e^{24}}, \frac{7}{1741}\sqrt{1974e^{26}} + \frac{154}{1741}\sqrt{5e^{34}}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+\frac{7}{1741}\sqrt{174e^5} \otimes e_9 + \frac{7}{1741}\sqrt{3426e^2} \otimes e_7$	{12368, 2589}
942:22	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{22e^{12}}, \frac{5}{47}\sqrt{58e^{14}} + \frac{5}{47}\sqrt{58e^{23}}, \frac{5}{47}\sqrt{2e^{16}},$ $\frac{10}{47}\sqrt{5e^{13}} + \frac{5}{47}\sqrt{2e^{26}}$	$(\frac{4}{47}, -\frac{1}{47}, -\frac{2}{47}, -\frac{7}{47}, \frac{1}{47}, \frac{3}{47}, -\frac{3}{47}, \frac{7}{47}, \frac{2}{47})$ $+\frac{5}{47}\sqrt{158e^5} \otimes e_7$	{12345689, 1379, 2358, 3467}
942:22	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903e^{12}}, \frac{1}{89}\sqrt{2795e^{14}} + \frac{1}{89}\sqrt{4085e^{23}}, \frac{2}{89}\sqrt{946e^{16}},$ $\frac{1}{89}\sqrt{2193e^{13}} + \frac{6}{89}\sqrt{86e^{26}}$	$(-\frac{35}{178}, \frac{8}{89}, \frac{16}{89}, \frac{83}{178}, \frac{9}{89}, -\frac{19}{178}, \frac{24}{89}, -\frac{27}{89}, -\frac{3}{178})$ $+\frac{4}{89}\sqrt{430e^3} \otimes e_8$	{1589, 189, 4568, 468}
942:22	$0, 0, 0, 0, 0, \frac{12}{2237}\sqrt{3199e^{12}}, \frac{6}{2237}\sqrt{150810e^{14}} + \frac{2}{2237}\sqrt{348234e^{23}},$ $\frac{6}{2237}\sqrt{42958e^{16}}, \frac{2}{2237}\sqrt{154923e^{13}} + \frac{4}{2237}\sqrt{116535e^{26}}$	$(-\frac{140}{2237}, \frac{369}{2237}, \frac{738}{2237}, \frac{1247}{2237}, -\frac{1495}{2237}, \frac{229}{2237}, \frac{1107}{2237}, \frac{89}{2237}, \frac{598}{2237})$ $+\frac{6}{2237}\sqrt{284254e^4} \otimes e_5$	{12468, 157, 2589, 4679}
942:22	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{35e^{12}}, \frac{1}{21}\sqrt{77e^{14}} + \frac{1}{63}\sqrt{483e^{23}}, \frac{4}{63}\sqrt{42e^{16}},$ $\frac{1}{21}\sqrt{91e^{13}} + \frac{2}{9}\sqrt{3e^{26}}$	$(\frac{1}{6}, 0, 0, -\frac{1}{6}, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{3}, \frac{1}{6})$ $+\frac{2}{63}\sqrt{273e^3} \otimes e_5 + \frac{8}{63}\sqrt{21e^1} \otimes e_4$	{1238, 234689}
942:22	$0, 0, 0, 0, 0, \frac{31}{4685}\sqrt{258e^{12}}, \frac{62}{4685}\sqrt{406e^{14}} + \frac{31}{4685}\sqrt{2566e^{23}},$ $\frac{62}{4685}\sqrt{941e^{16}}, \frac{868}{4685}\sqrt{3e^{13}} + \frac{31}{937}\sqrt{106e^{26}}$	$(-\frac{341}{4685}, \frac{279}{4685}, \frac{558}{4685}, \frac{1178}{4685}, -\frac{1302}{4685}, -\frac{62}{4685}, \frac{837}{4685}, -\frac{403}{4685}, \frac{217}{4685})$ $+\frac{31}{4685}\sqrt{5302e^3} \otimes e_8 + \frac{62}{4685}\sqrt{834e^1} \otimes e_5$	{13467, 3579}
942:22	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{2e^{12}}, \frac{1}{7}\sqrt{6e^{14}} + \frac{2}{7}e^{23}, \frac{1}{7}\sqrt{6e^{16}},$ $\frac{2}{7}\sqrt{3e^{13}} + \frac{1}{7}\sqrt{2e^{26}}$	$(\frac{1}{7}, -\frac{1}{21}, -\frac{2}{21}, -\frac{2}{7}, \frac{10}{21}, \frac{2}{21}, -\frac{1}{7}, \frac{5}{21}, \frac{1}{21})$ $+\frac{1}{7}\sqrt{22e^1} \otimes e_4 + \frac{4}{7}e^5 \otimes e_9$	{1289, 24568}
942:22	$0, 0, 0, 0, 0, \frac{9}{283}\sqrt{506e^{12}}, \frac{12}{283}\sqrt{230e^{14}} + \frac{3}{283}\sqrt{46e^{23}}, \frac{69}{283}\sqrt{10e^{16}},$ $\frac{3}{283}\sqrt{2990e^{13}} + \frac{3}{283}\sqrt{2162e^{26}}$	$(\frac{84}{283}, -\frac{13}{283}, -\frac{26}{283}, -\frac{123}{283}, \frac{40}{283}, \frac{71}{283}, -\frac{39}{283}, \frac{155}{283}, \frac{58}{283})$ $+\frac{27}{283}\sqrt{138e^1} \otimes e_4$	{12358, 1238, 2345689, 234689}
942:22	$0, 0, 0, 0, 0, \frac{10}{53}\sqrt{3e^{12}}, \frac{5}{371}\sqrt{1442e^{14}} + \frac{10}{371}\sqrt{602e^{23}}, \frac{10}{371}\sqrt{553e^{16}},$ $\frac{5}{371}\sqrt{1302e^{13}} + \frac{5}{371}\sqrt{1806e^{26}}$	$(-\frac{10}{53}, \frac{5}{53}, \frac{10}{53}, \frac{25}{53}, 0, -\frac{5}{53}, \frac{15}{53}, -\frac{15}{53}, 0)$ $+\frac{30}{371}\sqrt{14e^4} \otimes e_5 + \frac{5}{371}\sqrt{4186e^3} \otimes e_8$	{1589, 468}
942:22	$0, 0, 0, 0, 0, \frac{51}{605}\sqrt{14e^{12}}, \frac{17}{605}\sqrt{582e^{14}} + \frac{102}{605}\sqrt{11e^{23}}, \frac{17}{605}\sqrt{410e^{16}},$ $\frac{34}{605}\sqrt{78e^{13}} + \frac{102}{605}\sqrt{15e^{26}}$	$(-\frac{119}{605}, \frac{51}{605}, \frac{102}{605}, \frac{272}{605}, \frac{102}{605}, -\frac{68}{605}, \frac{153}{605}, -\frac{17}{55}, -\frac{17}{605})$ $+\frac{17}{605}\sqrt{1006e^4} \otimes e_9 + \frac{34}{605}\sqrt{21e^5} \otimes e_8$	{1345, 3569}
942:22	$0, 0, 0, 0, 0, \frac{6}{2309}\sqrt{2526e^{12}}, \frac{36}{2309}\sqrt{2526e^{14}} + \frac{2}{2309}\sqrt{12630e^{23}},$ $\frac{6}{2309}\sqrt{91778e^{16}}, \frac{2}{2309}\sqrt{400371e^{13}} + \frac{8}{2309}\sqrt{1263e^{26}}$	$(-\frac{608}{2309}, \frac{351}{2309}, \frac{702}{2309}, \frac{1661}{2309}, \frac{395}{2309}, -\frac{257}{2309}, \frac{1053}{2309}, -\frac{865}{2309}, \frac{94}{2309})$ $+\frac{6}{2309}\sqrt{268598e^4} \otimes e_8$	{23568, 2368, 3457, 347}
942:22	$0, 0, 0, 0, 0, \frac{27}{271}\sqrt{29e^{12}}, \frac{3}{271}\sqrt{2813e^{14}} + \frac{3}{271}\sqrt{6235e^{23}}, \frac{12}{271}\sqrt{58e^{16}},$ $\frac{3}{271}\sqrt{5771e^{13}} + \frac{6}{271}\sqrt{899e^{26}}$	$(\frac{21}{542}, \frac{32}{271}, \frac{64}{271}, \frac{171}{542}, -\frac{197}{271}, \frac{85}{542}, \frac{96}{271}, \frac{53}{271}, \frac{149}{542})$ $+\frac{18}{271}\sqrt{377e^3} \otimes e_5$	{1245679, 1589, 257, 4568}
942:22	$0, 0, 0, 0, 0, \frac{22}{189}\sqrt{2e^{12}}, \frac{22}{189}\sqrt{17e^{14}} + \frac{22}{189}\sqrt{11e^{23}}, \frac{11}{189}\sqrt{6e^{16}},$ $\frac{11}{189}\sqrt{42e^{13}} + \frac{22}{63}\sqrt{2e^{26}}$	$(-\frac{11}{63}, \frac{11}{189}, \frac{22}{189}, \frac{22}{63}, \frac{110}{189}, -\frac{22}{189}, \frac{11}{63}, -\frac{55}{189}, -\frac{11}{189})$ $+\frac{11}{189}\sqrt{158e^4} \otimes e_8 + \frac{11}{189}\sqrt{178e^5} \otimes e_9$	{23479, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:22	$0, 0, 0, 0, 0, \frac{7}{215}\sqrt{70}e^{12}, \frac{7}{215}\sqrt{266}e^{14} + \frac{7}{215}\sqrt{138}e^{23}, \frac{7}{215}\sqrt{110}e^{16},$ $\frac{14}{215}\sqrt{29}e^{13} + \frac{21}{215}\sqrt{2}e^{26}$	$(-\frac{28}{215}, \frac{7}{215}, \frac{14}{215}, \frac{49}{215}, \frac{119}{215}, -\frac{21}{215}, \frac{21}{215}, -\frac{49}{215}, -\frac{14}{215})$ $+ \frac{56}{215}\sqrt{6}e^4 \otimes e_8 + \frac{7}{215}\sqrt{398}e^5 \otimes e_7$	{1234569, 13789}
942:22	$0, 0, 0, 0, 0, \frac{17}{779}\sqrt{219}e^{12}, \frac{17}{779}\sqrt{497}e^{14} + \frac{17}{779}\sqrt{215}e^{23}, \frac{204}{779}\sqrt{3}e^{16},$ $\frac{17}{779}\sqrt{501}e^{13} + \frac{34}{779}\sqrt{106}e^{26}$	$(-\frac{221}{1558}, \frac{68}{779}, \frac{136}{779}, \frac{629}{1558}, -\frac{153}{779}, -\frac{85}{1558}, \frac{204}{779}, -\frac{153}{779}, \frac{51}{1558})$ $+ \frac{170}{779}\sqrt{10}e^4 \otimes e_9 + \frac{204}{779}\sqrt{3}e^3 \otimes e_5$	{134, 369}
942:22	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12}, \frac{6}{25}\sqrt{3}e^{14} + \frac{2}{25}\sqrt{42}e^{23}, \frac{2}{25}\sqrt{33}e^{16},$ $\frac{6}{25}e^{13} + \frac{2}{25}\sqrt{14}e^{26}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{1}{25})$ $+ \frac{2}{25}\sqrt{33}e^2 \otimes e_5 + \frac{2}{25}\sqrt{58}e^3 \otimes e_8$	{134567, 3579}
942:22	$0, 0, 0, 0, 0, \frac{11}{205}\sqrt{74}e^{12}, \frac{44}{205}\sqrt{2}e^{14} + \frac{11}{205}\sqrt{46}e^{23}, \frac{11}{205}\sqrt{106}e^{16},$ $\frac{11}{205}\sqrt{46}e^{13} + \frac{11}{41}\sqrt{2}e^{26}$	$(\frac{44}{205}, -\frac{11}{205}, -\frac{22}{205}, -\frac{77}{205}, \frac{88}{205}, \frac{33}{205}, -\frac{33}{205}, \frac{77}{205}, \frac{22}{205})$ $+ \frac{33}{205}\sqrt{26}e^1 \otimes e_4 + \frac{88}{205}\sqrt{2}e^5 \otimes e_7$	{12358, 2345689}
942:22	$0, 0, 0, 0, 0, \frac{31}{4685}\sqrt{258}e^{12}, \frac{31}{4685}\sqrt{3678}e^{14} + \frac{372}{4685}\sqrt{19}e^{23},$ $\frac{31}{4685}\sqrt{1538}e^{16}, \frac{868}{4685}\sqrt{3}e^{13} + \frac{62}{4685}\sqrt{663}e^{26}$	$(-\frac{341}{4685}, \frac{279}{4685}, \frac{558}{4685}, \frac{1178}{4685}, -\frac{1302}{4685}, -\frac{62}{4685}, \frac{837}{4685}, -\frac{403}{4685}, \frac{217}{4685})$ $+ \frac{31}{4685}\sqrt{5302}e^4 \otimes e_9 + \frac{62}{4685}\sqrt{834}e^1 \otimes e_5$	{16789, 4578}
942:22	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{23}e^{12}, \frac{1}{75}\sqrt{874}e^{14} + \frac{2}{75}\sqrt{46}e^{23}, \frac{1}{75}\sqrt{1518}e^{16},$ $\frac{4}{75}\sqrt{23}e^{13} + \frac{1}{75}\sqrt{598}e^{26}$	$(\frac{7}{75}, -\frac{1}{25}, -\frac{2}{25}, -\frac{16}{75}, \frac{34}{75}, \frac{4}{75}, -\frac{3}{75}, \frac{11}{75}, \frac{7}{75})$ $+ \frac{1}{75}\sqrt{1886}e^1 \otimes e_4 + \frac{2}{75}\sqrt{322}e^5 \otimes e_8$	{1238, 234689}
942:22	$0, 0, 0, 0, 0, \frac{49}{7125}\sqrt{2046}e^{12}, \frac{98}{7125}\sqrt{769}e^{14} + \frac{392}{7125}\sqrt{19}e^{23},$ $\frac{49}{7125}\sqrt{3758}e^{16}, \frac{49}{7125}\sqrt{434}e^{13} + \frac{49}{7125}\sqrt{534}e^{26}$	$(-\frac{147}{2375}, \frac{539}{7125}, \frac{1078}{7125}, \frac{686}{2375}, -\frac{2842}{7125}, \frac{98}{7125}, \frac{539}{2375}, -\frac{343}{7125}, \frac{637}{7125})$ $+ \frac{49}{7125}\sqrt{5818}e^4 \otimes e_8 + \frac{49}{7125}\sqrt{7058}e^1 \otimes e_5$	{12378, 1346}
942:22	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78}e^{12}, \frac{9}{95}\sqrt{30}e^{14} + \frac{6}{95}\sqrt{21}e^{23}, \frac{6}{95}\sqrt{42}e^{16},$ $\frac{9}{95}\sqrt{10}e^{13} + \frac{3}{95}\sqrt{186}e^{26}$	$(-\frac{12}{95}, \frac{3}{95}, \frac{6}{95}, \frac{21}{95}, \frac{36}{95}, -\frac{9}{95}, \frac{9}{95}, -\frac{21}{95}, -\frac{6}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_7 + \frac{3}{95}\sqrt{354}e^4 \otimes e_9$	{1345, 3569}
942:22	$0, 0, 0, 0, 0, \frac{6}{49}\sqrt{15}e^{12}, \frac{1}{49}\sqrt{165}e^{14} + \frac{10}{49}\sqrt{3}e^{23}, \frac{1}{49}\sqrt{345}e^{16},$ $\frac{1}{49}\sqrt{515}e^{13} + \frac{4}{49}\sqrt{30}e^{26}$	$(-\frac{5}{49}, \frac{5}{49}, \frac{10}{49}, \frac{20}{49}, -\frac{20}{49}, 0, \frac{15}{49}, -\frac{5}{49}, \frac{5}{49})$ $+ \frac{1}{49}\sqrt{1285}e^2 \otimes e_5 + \frac{4}{49}\sqrt{55}e^4 \otimes e_8$	{2368, 3457}
942:22	$0, 0, 0, 0, 0, \frac{6}{2369}\sqrt{70503}e^{12}, \frac{2}{2369}\sqrt{352515}e^{14} + \frac{6}{2369}\sqrt{33431}e^{23},$ $\frac{4}{2369}\sqrt{141006}e^{16}, \frac{40}{2369}\sqrt{993}e^{13} + \frac{6}{2369}\sqrt{9930}e^{26}$	$(\frac{407}{2369}, \frac{149}{2369}, \frac{298}{2369}, \frac{40}{2369}, -\frac{1579}{2369}, \frac{556}{2369}, \frac{447}{2369}, \frac{963}{2369}, \frac{705}{2369})$ $+ \frac{6}{2369}\sqrt{217798}e^1 \otimes e_5$	{12378, 1346, 23456789, 359}
942:22	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78}e^{12}, \frac{6}{95}\sqrt{21}e^{14} + \frac{9}{95}\sqrt{30}e^{23}, \frac{3}{95}\sqrt{186}e^{16},$ $\frac{9}{95}\sqrt{10}e^{13} + \frac{6}{95}\sqrt{42}e^{26}$	$(-\frac{12}{95}, \frac{3}{95}, \frac{6}{95}, \frac{21}{95}, \frac{36}{95}, -\frac{9}{95}, \frac{9}{95}, -\frac{21}{95}, -\frac{6}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_7 + \frac{3}{95}\sqrt{354}e^3 \otimes e_8$	{1589, 4568}
942:22	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903}e^{12}, \frac{1}{89}\sqrt{4085}e^{14} + \frac{1}{89}\sqrt{2795}e^{23}, \frac{6}{89}\sqrt{86}e^{16},$ $\frac{1}{89}\sqrt{2193}e^{13} + \frac{2}{89}\sqrt{946}e^{26}$	$(-\frac{35}{178}, \frac{8}{89}, \frac{16}{89}, \frac{83}{178}, \frac{9}{89}, -\frac{19}{178}, \frac{24}{89}, -\frac{27}{89}, -\frac{3}{178})$ $+ \frac{4}{89}\sqrt{430}e^4 \otimes e_9$	{134, 1345, 3569, 369}
942:22	$0, 0, 0, 0, 0, \frac{24}{569}\sqrt{115}e^{12}, \frac{6}{569}\sqrt{2990}e^{14} + \frac{2}{569}\sqrt{27255}e^{23},$ $\frac{12}{569}\sqrt{2415}e^{16}, \frac{2}{569}\sqrt{16215}e^{13} + \frac{2}{569}\sqrt{21390}e^{26}$	$(-\frac{77}{569}, \frac{33}{569}, \frac{66}{569}, \frac{176}{569}, 1, -\frac{44}{569}, \frac{99}{569}, -\frac{121}{569}, -\frac{11}{569})$ $+ \frac{6}{569}\sqrt{18055}e^5 \otimes e_8$	{12478, 156, 26789, 459}
942:22	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12}, \frac{2}{25}\sqrt{31}e^{14} + \frac{8}{25}e^{23}, \frac{2}{5}e^{16},$ $\frac{6}{25}e^{13} + \frac{2}{25}\sqrt{11}e^{26}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{1}{25})$ $+ \frac{2}{25}\sqrt{33}e^2 \otimes e_5 + \frac{2}{25}\sqrt{58}e^4 \otimes e_9$	{156789, 4578}
942:22	$0, 0, 0, 0, 0, \frac{9}{73}\sqrt{38}e^{12}, \frac{1}{73}\sqrt{627}e^{14} + \frac{3}{73}\sqrt{190}e^{23}, \frac{1}{73}\sqrt{399}e^{16},$ $\frac{1}{73}\sqrt{1995}e^{13} + \frac{12}{73}\sqrt{19}e^{26}$	$(\frac{4}{73}, \frac{7}{73}, \frac{14}{73}, \frac{17}{73}, -\frac{50}{73}, \frac{11}{73}, \frac{21}{73}, \frac{15}{73}, \frac{18}{73})$ $+ \frac{3}{73}\sqrt{779}e^2 \otimes e_5$	{12389, 1345679, 23468, 357}
942:22	$0, 0, 0, 0, 0, \frac{106}{4517}\sqrt{214}e^{12}, \frac{265}{4517}\sqrt{10}e^{14} + \frac{53}{4517}\sqrt{1990}e^{23}, \frac{2014}{4517}e^{16},$ $\frac{106}{4517}\sqrt{317}e^{13} + \frac{53}{4517}\sqrt{1254}e^{26}$	$(-\frac{583}{4517}, \frac{530}{4517}, \frac{1060}{4517}, \frac{2173}{4517}, -\frac{1749}{4517}, -\frac{53}{4517}, \frac{1590}{4517}, -\frac{636}{4517}, \frac{477}{4517})$ $+ \frac{106}{4517}\sqrt{914}e^4 \otimes e_8 + \frac{53}{4517}\sqrt{4438}e^3 \otimes e_5$	{2457, 568}
942:22	$0, 0, 0, 0, 0, \frac{18}{89}e^{12}, \frac{6}{89}\sqrt{37}e^{14} + \frac{6}{89}\sqrt{89}e^{23}, \frac{12}{89}\sqrt{23}e^{16},$ $\frac{6}{89}\sqrt{146}e^{13} + \frac{24}{89}\sqrt{10}e^{26}$	$(-\frac{3}{89}, \frac{1}{89}, \frac{2}{89}, \frac{6}{89}, 1, -\frac{2}{89}, \frac{3}{89}, -\frac{5}{89}, -\frac{1}{89})$ $+ \frac{18}{89}\sqrt{42}e^5 \otimes e_9$	{1235678, 1345, 234789, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:22	$0, 0, 0, 0, 0, \frac{21}{625}\sqrt{70}e^{12}, \frac{14}{625}\sqrt{390}e^{14} + \frac{21}{625}\sqrt{230}e^{23}, \frac{14}{625}\sqrt{465}e^{16},$ $\frac{56}{625}\sqrt{30}e^{13} + \frac{7}{25}\sqrt{2}e^{26}$	$(-\frac{21}{125}, \frac{7}{125}, \frac{14}{125}, \frac{42}{125}, \frac{42}{125}, -\frac{14}{125}, \frac{21}{125}, -\frac{7}{25}, -\frac{7}{125})$ $+ \frac{14}{625}\sqrt{390}e^5 \otimes e_9 + \frac{7}{125}\sqrt{166}e^3 \otimes e_8$	{189, 4568}
942:23	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{11}e^{12}, \frac{2}{35}\sqrt{66}e^{34}, \frac{3}{35}\sqrt{33}e^{16} - \frac{1}{35}\sqrt{759}e^{23},$ $\frac{1}{35}\sqrt{759}e^{13} + \frac{3}{35}\sqrt{33}e^{26}$	$(\frac{4}{35}, \frac{4}{35}, \frac{8}{35}, \frac{1}{35}, -\frac{5}{7}, \frac{8}{35}, \frac{9}{35}, \frac{12}{35}, \frac{12}{35})$ $+ \frac{6}{35}\sqrt{55}e^3 \otimes e_5$	{12456789, 125689, 14579, 159, 4567, 56, 12456789, 125689, 14579, 159, 4567, 56}
942:23	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{11}e^{12}, \frac{2}{35}\sqrt{66}e^{34}, \frac{3}{35}\sqrt{33}e^{16} + \frac{1}{35}\sqrt{759}e^{23},$ $\frac{1}{35}\sqrt{759}e^{13} + \frac{3}{35}\sqrt{33}e^{26}$	$(\frac{4}{35}, \frac{4}{35}, \frac{8}{35}, \frac{1}{35}, -\frac{5}{7}, \frac{8}{35}, \frac{9}{35}, \frac{12}{35}, \frac{12}{35})$ $+ \frac{6}{35}\sqrt{55}e^3 \otimes e_5$	{12456789, 125689, 14579, 159, 4567, 56, 12456789, 125689, 14579, 159, 4567, 56}
942:23	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{101}e^{12}, \frac{2}{95}\sqrt{101}e^{34}, \frac{1}{95}\sqrt{5757}e^{16} - \frac{1}{95}\sqrt{6161}e^{23},$ $\frac{1}{95}\sqrt{1919}e^{13} + \frac{1}{95}\sqrt{2323}e^{26}$	$(-\frac{2}{95}, -\frac{2}{95}, -\frac{4}{95}, \frac{17}{95}, 1, -\frac{4}{95}, \frac{13}{95}, -\frac{6}{95}, -\frac{6}{95})$ $+ \frac{4}{95}\sqrt{1010}e^5 \otimes e_8$	{12345679, 123569, 134789, 1389, 23457, 235, 34678, 368, 12345679, 123569, 134789, 1389, 23457, 235, 34678, 368}
942:23	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{101}e^{12}, \frac{2}{95}\sqrt{101}e^{34}, \frac{1}{95}\sqrt{5757}e^{16} + \frac{1}{95}\sqrt{6161}e^{23},$ $\frac{1}{95}\sqrt{1919}e^{13} + \frac{1}{95}\sqrt{2323}e^{26}$	$(-\frac{2}{95}, -\frac{2}{95}, -\frac{4}{95}, \frac{17}{95}, 1, -\frac{4}{95}, \frac{13}{95}, -\frac{6}{95}, -\frac{6}{95})$ $+ \frac{4}{95}\sqrt{1010}e^5 \otimes e_8$	{12345679, 123569, 134789, 1389, 23457, 235, 34678, 368, 12345679, 123569, 134789, 1389, 23457, 235, 34678, 368}
942:23	$0, 0, 0, 0, 0, \frac{10}{103}\sqrt{29}e^{12}, \frac{10}{103}\sqrt{29}e^{34}, \frac{1}{103}\sqrt{2813}e^{16} - \frac{1}{103}\sqrt{2639}e^{23},$ $\frac{1}{103}\sqrt{87}e^{13} + \frac{3}{103}\sqrt{29}e^{26}$	$(\frac{6}{103}, \frac{6}{103}, \frac{12}{103}, -\frac{35}{103}, \frac{15}{103}, \frac{12}{103}, -\frac{23}{103}, \frac{18}{103}, \frac{18}{103})$ $+ \frac{4}{103}\sqrt{319}e^1 \otimes e_7$	{1234589, 123489, 134569, 13469, 235678, 23678, 357, 37, 1234589, 123489, 134569, 13469, 235678, 23678, 357, 37}
942:23	$0, 0, 0, 0, 0, \frac{10}{103}\sqrt{29}e^{12}, \frac{10}{103}\sqrt{29}e^{34}, \frac{1}{103}\sqrt{2813}e^{16} + \frac{1}{103}\sqrt{2639}e^{23},$ $\frac{1}{103}\sqrt{87}e^{13} + \frac{3}{103}\sqrt{29}e^{26}$	$(\frac{6}{103}, \frac{6}{103}, \frac{12}{103}, -\frac{35}{103}, \frac{15}{103}, \frac{12}{103}, -\frac{23}{103}, \frac{18}{103}, \frac{18}{103})$ $+ \frac{4}{103}\sqrt{319}e^1 \otimes e_7$	{1234589, 123489, 134569, 13469, 235678, 23678, 357, 37, 1234589, 123489, 134569, 13469, 235678, 23678, 357, 37}
942:23	$0, 0, 0, 0, 0, \frac{14}{227}\sqrt{37}e^{12}, \frac{42}{227}\sqrt{5}e^{34}, \frac{7}{227}\sqrt{149}e^{16} - \frac{7}{227}\sqrt{119}e^{23},$ $\frac{7}{227}\sqrt{33}e^{13} + \frac{7}{227}\sqrt{3}e^{26}$	$(\frac{14}{227}, \frac{14}{227}, \frac{28}{227}, -\frac{63}{227}, -\frac{21}{227}, \frac{28}{227}, -\frac{35}{227}, \frac{42}{227}, \frac{42}{227})$ $+ \frac{28}{227}\sqrt{19}e^1 \otimes e_7 + \frac{28}{227}\sqrt{6}e^3 \otimes e_5$	{12348, 1346, 236789, 379, 12348, 1346, 236789, 379}
942:23	$0, 0, 0, 0, 0, \frac{14}{227}\sqrt{37}e^{12}, \frac{42}{227}\sqrt{5}e^{34}, \frac{7}{227}\sqrt{149}e^{16} + \frac{7}{227}\sqrt{119}e^{23},$ $\frac{7}{227}\sqrt{33}e^{13} + \frac{7}{227}\sqrt{3}e^{26}$	$(\frac{14}{227}, \frac{14}{227}, \frac{28}{227}, -\frac{63}{227}, -\frac{21}{227}, \frac{28}{227}, -\frac{35}{227}, \frac{42}{227}, \frac{42}{227})$ $+ \frac{28}{227}\sqrt{19}e^1 \otimes e_7 + \frac{28}{227}\sqrt{6}e^3 \otimes e_5$	{12348, 1346, 236789, 379, 12348, 1346, 236789, 379}
942:23	$0, 0, 0, 0, 0, \frac{126}{433}\sqrt{2}e^{12}, \frac{126}{433}\sqrt{2}e^{34}, \frac{21}{433}\sqrt{11}e^{16} - \frac{7}{433}\sqrt{1281}e^{23},$ $\frac{21}{433}\sqrt{85}e^{13} + \frac{7}{433}\sqrt{615}e^{26}$	$(\frac{14}{433}, \frac{14}{433}, \frac{28}{433}, -\frac{119}{433}, \frac{189}{433}, \frac{28}{433}, -\frac{91}{433}, \frac{42}{433}, \frac{42}{433})$ $+ \frac{14}{433}\sqrt{258}e^5 \otimes e_8 + \frac{14}{433}\sqrt{366}e^3 \otimes e_4$	{124689, 1459, 248, 456, 124689, 1459, 248, 456}
942:23	$0, 0, 0, 0, 0, \frac{126}{433}\sqrt{2}e^{12}, \frac{126}{433}\sqrt{2}e^{34}, \frac{21}{433}\sqrt{11}e^{16} + \frac{7}{433}\sqrt{1281}e^{23},$ $\frac{21}{433}\sqrt{85}e^{13} + \frac{7}{433}\sqrt{615}e^{26}$	$(\frac{14}{433}, \frac{14}{433}, \frac{28}{433}, -\frac{119}{433}, \frac{189}{433}, \frac{28}{433}, -\frac{91}{433}, \frac{42}{433}, \frac{42}{433})$ $+ \frac{14}{433}\sqrt{258}e^5 \otimes e_8 + \frac{14}{433}\sqrt{366}e^3 \otimes e_4$	{124689, 1459, 248, 456, 124689, 1459, 248, 456}
942:23	$0, 0, 0, 0, 0, \frac{33}{94}\sqrt{2}e^{12}, \frac{11}{188}\sqrt{38}e^{34}, \frac{33}{188}\sqrt{6}e^{16} - \frac{11}{188}\sqrt{123}e^{23},$ $\frac{11}{188}\sqrt{123}e^{13} + \frac{33}{188}\sqrt{6}e^{26}$	$(\frac{33}{376}, \frac{33}{376}, \frac{33}{188}, -\frac{22}{47}, \frac{33}{94}, \frac{33}{188}, -\frac{55}{188}, \frac{99}{376}, \frac{99}{376})$ $+ \frac{11}{188}\sqrt{102}e^5 \otimes e_7 + \frac{11}{94}\sqrt{61}e^3 \otimes e_4$	{1245689, 1459, 456, 1245689, 1459, 456}
942:23	$0, 0, 0, 0, 0, \frac{33}{94}\sqrt{2}e^{12}, \frac{11}{188}\sqrt{38}e^{34}, \frac{33}{188}\sqrt{6}e^{16} + \frac{11}{188}\sqrt{123}e^{23},$ $\frac{11}{188}\sqrt{123}e^{13} + \frac{33}{188}\sqrt{6}e^{26}$	$(\frac{33}{376}, \frac{33}{376}, \frac{33}{188}, -\frac{22}{47}, \frac{33}{94}, \frac{33}{188}, -\frac{55}{188}, \frac{99}{376}, \frac{99}{376})$ $+ \frac{11}{188}\sqrt{102}e^5 \otimes e_7 + \frac{11}{94}\sqrt{61}e^3 \otimes e_4$	{1245689, 1459, 456, 1245689, 1459, 456}
942:23	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{217}e^{12}, \frac{2}{41}\sqrt{217}e^{34}, \frac{1}{41}\sqrt{651}e^{16} - \frac{3}{41}\sqrt{155}e^{23},$ $\frac{3}{41}\sqrt{155}e^{13} + \frac{1}{41}\sqrt{651}e^{26}$	$(\frac{5}{41}, \frac{5}{41}, \frac{10}{41}, -\frac{21}{41}, \frac{3}{41}, \frac{10}{41}, -\frac{11}{41}, \frac{15}{41}, \frac{15}{41})$ $+ \frac{2}{41}\sqrt{589}e^3 \otimes e_4$	{1245689, 124689, 1459, 149, 456, 46, 1245689, 124689, 1459, 149, 456, 46}
942:23	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{217}e^{12}, \frac{2}{41}\sqrt{217}e^{34}, \frac{1}{41}\sqrt{651}e^{16} + \frac{3}{41}\sqrt{155}e^{23},$ $\frac{3}{41}\sqrt{155}e^{13} + \frac{1}{41}\sqrt{651}e^{26}$	$(\frac{5}{41}, \frac{5}{41}, \frac{10}{41}, -\frac{21}{41}, \frac{3}{41}, \frac{10}{41}, -\frac{11}{41}, \frac{15}{41}, \frac{15}{41})$ $+ \frac{2}{41}\sqrt{589}e^3 \otimes e_4$	{1245689, 124689, 1459, 149, 456, 46, 1245689, 124689, 1459, 149, 456, 46}
942:23	$0, 0, 0, 0, 0, \frac{11}{1721}\sqrt{1338}e^{12}, \frac{11}{1721}\sqrt{1654}e^{34},$ $\frac{11}{1721}\sqrt{1271}e^{16} - \frac{11}{1721}\sqrt{1295}e^{23}, \frac{165}{1721}e^{13} + \frac{11}{1721}\sqrt{201}e^{26}$	$(\frac{55}{1721}, \frac{55}{1721}, \frac{110}{1721}, -\frac{176}{1721}, -\frac{297}{1721}, \frac{110}{1721}, -\frac{66}{1721}, \frac{165}{1721}, \frac{165}{1721})$ $+ \frac{22}{1721}\sqrt{237}e^4 \otimes e_5 + \frac{22}{1721}\sqrt{535}e^1 \otimes e_7$	{123489, 13469, 235678, 357, 123489, 13469, 235678, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:23	$0, 0, 0, 0, 0, \frac{11}{1721}\sqrt{1338}e^{12}, \frac{11}{1721}\sqrt{1654}e^{34},$ $\frac{11}{1721}\sqrt{1271}e^{16} + \frac{11}{1721}\sqrt{1295}e^{23}, \frac{165}{1721}e^{13} + \frac{11}{1721}\sqrt{201}e^{26}$	$(\frac{55}{1721}, \frac{55}{1721}, \frac{110}{1721}, -\frac{176}{1721}, -\frac{297}{1721}, \frac{110}{1721}, -\frac{66}{1721}, \frac{165}{1721}, \frac{165}{1721})$ $+ \frac{22}{1721}\sqrt{237}e^4 \otimes e_5 + \frac{22}{1721}\sqrt{535}e^1 \otimes e_7$	{123489, 13469, 235678, 357, 123489, 13469, 235678, 357}
942:23	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{2}e^{34}, \frac{1}{11}\sqrt{29}e^{16} - \frac{1}{11}\sqrt{35}e^{23},$ $\frac{1}{11}\sqrt{15}e^{13} + \frac{3}{11}e^{26}$	$(0, 0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0)$ $+ \frac{2}{11}\sqrt{10}e^1 \otimes e_7 + \frac{2}{11}\sqrt{6}e^3 \otimes e_4$	{1234589, 123489, 134569, 13469, 1234589, 123489, 134569, 13469}
942:23	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{2}e^{34}, \frac{1}{11}\sqrt{29}e^{16} + \frac{1}{11}\sqrt{35}e^{23},$ $\frac{1}{11}\sqrt{15}e^{13} + \frac{3}{11}e^{26}$	$(0, 0, 0, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0)$ $+ \frac{2}{11}\sqrt{10}e^1 \otimes e_7 + \frac{2}{11}\sqrt{6}e^3 \otimes e_4$	{1234589, 123489, 134569, 13469, 1234589, 123489, 134569, 13469}
942:23	$0, 0, 0, 0, 0, \frac{1}{76}\sqrt{2478}e^{12}, \frac{3}{152}\sqrt{2714}e^{34}, \frac{3}{152}\sqrt{826}e^{16} - \frac{1}{152}\sqrt{9735}e^{23},$ $\frac{1}{152}\sqrt{9735}e^{13} + \frac{3}{152}\sqrt{826}e^{26}$	$(\frac{15}{304}, \frac{15}{304}, \frac{15}{152}, -\frac{5}{19}, 1, \frac{15}{152}, -\frac{25}{152}, \frac{45}{304}, \frac{45}{304})$ $+ \frac{3}{152}\sqrt{4838}e^5 \otimes e_7$	{1234589, 123789, 134569, 13679, 345, 37, 1234589, 123789, 134569, 13679, 345, 37}
942:23	$0, 0, 0, 0, 0, \frac{1}{76}\sqrt{2478}e^{12}, \frac{3}{152}\sqrt{2714}e^{34}, \frac{3}{152}\sqrt{826}e^{16} + \frac{1}{152}\sqrt{9735}e^{23},$ $\frac{1}{152}\sqrt{9735}e^{13} + \frac{3}{152}\sqrt{826}e^{26}$	$(\frac{15}{304}, \frac{15}{304}, \frac{15}{152}, -\frac{5}{19}, 1, \frac{15}{152}, -\frac{25}{152}, \frac{45}{304}, \frac{45}{304})$ $+ \frac{3}{152}\sqrt{4838}e^5 \otimes e_7$	{1234589, 123789, 134569, 13679, 345, 37, 1234589, 123789, 134569, 13679, 345, 37}
942:23	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{16} - \frac{1}{43}\sqrt{429}e^{23},$ $\frac{1}{43}\sqrt{759}e^{13} + \frac{3}{43}\sqrt{11}e^{26}$	$(-\frac{2}{43}, -\frac{2}{43}, -\frac{4}{43}, \frac{27}{43}, \frac{7}{43}, -\frac{4}{43}, \frac{23}{43}, -\frac{6}{43}, -\frac{6}{43})$ $+ \frac{6}{43}\sqrt{66}e^4 \otimes e_8$	{1258, 128, 14567, 1467, 25689, 2689, 4579, 479, 1258, 128, 14567, 1467, 25689, 2689, 4579, 479}
942:23	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{66}e^{12}, \frac{4}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{16} + \frac{1}{43}\sqrt{429}e^{23},$ $\frac{1}{43}\sqrt{759}e^{13} + \frac{3}{43}\sqrt{11}e^{26}$	$(-\frac{2}{43}, -\frac{2}{43}, -\frac{4}{43}, \frac{27}{43}, \frac{7}{43}, -\frac{4}{43}, \frac{23}{43}, -\frac{6}{43}, -\frac{6}{43})$ $+ \frac{6}{43}\sqrt{66}e^4 \otimes e_8$	{1258, 128, 14567, 1467, 25689, 2689, 4579, 479, 1258, 128, 14567, 1467, 25689, 2689, 4579, 479}
942:23	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{2}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{16} - \frac{1}{43}\sqrt{759}e^{23},$ $\frac{1}{43}\sqrt{429}e^{13} + \frac{3}{43}\sqrt{11}e^{26}$	$(\frac{4}{43}, \frac{4}{43}, \frac{8}{43}, \frac{3}{43}, -\frac{29}{43}, \frac{8}{43}, \frac{11}{43}, \frac{12}{43}, \frac{12}{43})$ $+ \frac{6}{43}\sqrt{66}e^1 \otimes e_5$	{12348, 12378, 1346, 1367, 2345689, 2356789, 3459, 3579, 12348, 12378, 1346, 1367, 2345689, 2356789, 3459, 3579}
942:23	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66}e^{12}, \frac{2}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{16} + \frac{1}{43}\sqrt{759}e^{23},$ $\frac{1}{43}\sqrt{429}e^{13} + \frac{3}{43}\sqrt{11}e^{26}$	$(\frac{4}{43}, \frac{4}{43}, \frac{8}{43}, \frac{3}{43}, -\frac{29}{43}, \frac{8}{43}, \frac{11}{43}, \frac{12}{43}, \frac{12}{43})$ $+ \frac{6}{43}\sqrt{66}e^1 \otimes e_5$	{12348, 12378, 1346, 1367, 2345689, 2356789, 3459, 3579, 12348, 12378, 1346, 1367, 2345689, 2356789, 3459, 3579}
942:23	$0, 0, 0, 0, 0, \frac{52}{899}\sqrt{51}e^{12}, \frac{26}{899}\sqrt{166}e^{34}, \frac{13}{899}\sqrt{249}e^{16} - \frac{13}{899}\sqrt{159}e^{23},$ $\frac{13}{899}\sqrt{491}e^{13} + \frac{13}{899}\sqrt{581}e^{26}$	$(\frac{52}{899}, \frac{52}{899}, \frac{104}{899}, -\frac{221}{899}, -\frac{117}{899}, \frac{104}{899}, -\frac{117}{899}, \frac{156}{899}, \frac{156}{899})$ $+ \frac{26}{899}\sqrt{114}e^1 \otimes e_5 + \frac{52}{899}\sqrt{70}e^2 \otimes e_7$	{123489, 13679, 234568, 357, 123489, 13679, 234568, 357}
942:23	$0, 0, 0, 0, 0, \frac{52}{899}\sqrt{51}e^{12}, \frac{26}{899}\sqrt{166}e^{34}, \frac{13}{899}\sqrt{249}e^{16} + \frac{13}{899}\sqrt{159}e^{23},$ $\frac{13}{899}\sqrt{491}e^{13} + \frac{13}{899}\sqrt{581}e^{26}$	$(\frac{52}{899}, \frac{52}{899}, \frac{104}{899}, -\frac{221}{899}, -\frac{117}{899}, \frac{104}{899}, -\frac{117}{899}, \frac{156}{899}, \frac{156}{899})$ $+ \frac{26}{899}\sqrt{114}e^1 \otimes e_5 + \frac{52}{899}\sqrt{70}e^2 \otimes e_7$	{123489, 13679, 234568, 357, 123489, 13679, 234568, 357}
942:23	$0, 0, 0, 0, 0, \frac{1}{76}\sqrt{2478}e^{12}, \frac{3}{152}\sqrt{2714}e^{34}, \frac{3}{152}\sqrt{826}e^{16} - \frac{1}{152}\sqrt{9735}e^{23},$ $\frac{1}{152}\sqrt{9735}e^{13} + \frac{3}{152}\sqrt{826}e^{26}$	$(\frac{15}{304}, \frac{15}{304}, \frac{15}{152}, \frac{83}{152}, -\frac{47}{76}, \frac{15}{152}, \frac{49}{76}, \frac{45}{304}, \frac{45}{304})$ $+ \frac{3}{152}\sqrt{4838}e^4 \otimes e_5$	{123489, 1235789, 13469, 135679, 34, 357, 123489, 1235789, 13469, 135679, 34, 357}
942:23	$0, 0, 0, 0, 0, \frac{1}{76}\sqrt{2478}e^{12}, \frac{3}{152}\sqrt{2714}e^{34}, \frac{3}{152}\sqrt{826}e^{16} + \frac{1}{152}\sqrt{9735}e^{23},$ $\frac{1}{152}\sqrt{9735}e^{13} + \frac{3}{152}\sqrt{826}e^{26}$	$(\frac{15}{304}, \frac{15}{304}, \frac{15}{152}, \frac{83}{152}, -\frac{47}{76}, \frac{15}{152}, \frac{49}{76}, \frac{45}{304}, \frac{45}{304})$ $+ \frac{3}{152}\sqrt{4838}e^4 \otimes e_5$	{123489, 1235789, 13469, 135679, 34, 357, 123489, 1235789, 13469, 135679, 34, 357}
942:24	$0, 0, 0, 0, 0, \frac{4}{445}\sqrt{3599}e^{12}, \frac{4}{445}\sqrt{3599}e^{34}, \frac{16}{445}\sqrt{354}e^{16} + \frac{8}{445}\sqrt{2773}e^{23},$ $\frac{4}{445}\sqrt{3658}e^{14} + \frac{4}{445}\sqrt{5487}e^{26}$	$(-\frac{6}{89}, \frac{33}{445}, -\frac{12}{89}, \frac{66}{445}, 1, \frac{3}{445}, \frac{6}{445}, -\frac{27}{445}, \frac{36}{445})$ $+ \frac{12}{445}\sqrt{2478}e^5 \otimes e_8$	{123569, 1389, 235, 368}
942:24	$0, 0, 0, 0, 0, \frac{12}{89}\sqrt{21}e^{12}, \frac{4}{89}\sqrt{7}e^{34}, \frac{4}{89}\sqrt{210}e^{16} + \frac{4}{89}\sqrt{322}e^{23},$ $\frac{4}{89}\sqrt{322}e^{14} + \frac{12}{89}\sqrt{7}e^{26}$	$(\frac{22}{89}, -\frac{17}{89}, \frac{44}{89}, -\frac{34}{89}, \frac{11}{89}, \frac{5}{89}, \frac{10}{89}, \frac{27}{89}, -\frac{12}{89})$ $+ \frac{4}{89}\sqrt{546}e^3 \otimes e_9$	{24589, 2489, 4569, 469}
942:24	$0, 0, 0, 0, 0, \frac{87}{4069}\sqrt{238}e^{12}, \frac{406}{4069}\sqrt{2}e^{34},$ $\frac{174}{4069}\sqrt{3}e^{16} + \frac{29}{4069}\sqrt{3986}e^{23}, \frac{116}{4069}\sqrt{186}e^{14} + \frac{957}{4069}\sqrt{2}e^{26}$	$(-\frac{203}{4069}, \frac{435}{4069}, -\frac{406}{4069}, \frac{870}{4069}, -\frac{1247}{4069}, \frac{232}{4069}, \frac{464}{4069}, \frac{29}{4069}, \frac{667}{4069})$ $+ \frac{174}{4069}\sqrt{127}e^4 \otimes e_8 + \frac{29}{4069}\sqrt{3030}e^3 \otimes e_5$	{13789, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:24	$0, 0, 0, 0, 0, \frac{4}{493}\sqrt{1765}e^{12}, \frac{4}{493}\sqrt{1765}e^{34}, \frac{4}{493}\sqrt{1590}e^{16} + \frac{4}{493}\sqrt{1770}e^{23},$ $\frac{8}{493}\sqrt{265}e^{14} + \frac{20}{493}\sqrt{21}e^{26}$	$(\frac{2}{29}, -\frac{37}{493}, \frac{4}{29}, -\frac{74}{493}, \frac{67}{493}, -\frac{3}{493}, -\frac{6}{493}, \frac{31}{493}, -\frac{40}{493})$ $+ \frac{4}{493}\sqrt{2130}e^1 \otimes e_7$	{1234589, 123489, 134569, 13469}
942:24	$0, 0, 0, 0, 0, \frac{144}{445}e^{12}, \frac{144}{445}e^{34}, \frac{24}{445}\sqrt{33}e^{16} + \frac{3}{445}\sqrt{2298}e^{23},$ $\frac{3}{445}\sqrt{1542}e^{14} + \frac{72}{445}e^{26}$	$(\frac{33}{445}, -\frac{6}{89}, \frac{66}{445}, -\frac{12}{89}, 0, \frac{3}{445}, \frac{6}{445}, \frac{36}{445}, -\frac{27}{445})$ $+ \frac{3}{445}\sqrt{2670}e^1 \otimes e_7 + \frac{3}{445}\sqrt{402}e^5 \otimes e_9$	{1234589, 134569}
942:24	$0, 0, 0, 0, 0, \frac{7}{3061}\sqrt{3426}e^{12}, \frac{14}{3061}\sqrt{947}e^{34},$ $\frac{21}{3061}\sqrt{346}e^{16} + \frac{294}{3061}\sqrt{2}e^{23}, \frac{7}{3061}\sqrt{1714}e^{14} + \frac{42}{3061}\sqrt{26}e^{26}$	$(\frac{105}{3061}, -\frac{77}{3061}, \frac{210}{3061}, -\frac{154}{3061}, \frac{203}{3061}, \frac{28}{3061}, \frac{56}{3061}, \frac{133}{3061}, -\frac{49}{3061})$ $+ \frac{462}{3061}e^1 \otimes e_7 + \frac{7}{3061}\sqrt{1086}e^4 \otimes e_5$	{123489, 13469}
942:24	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{193}e^{12}, \frac{20}{293}\sqrt{7}e^{34}, \frac{20}{293}\sqrt{3}e^{16} + \frac{4}{293}\sqrt{118}e^{23},$ $\frac{8}{293}\sqrt{42}e^{14} + \frac{20}{293}\sqrt{6}e^{26}$	$(-\frac{11}{293}, \frac{14}{293}, -\frac{22}{293}, \frac{28}{293}, -\frac{19}{293}, \frac{3}{293}, \frac{6}{293}, -\frac{8}{293}, \frac{17}{293})$ $+ \frac{12}{293}\sqrt{6}e^1 \otimes e_5 + \frac{8}{293}\sqrt{51}e^2 \otimes e_7$	{123489, 234568}
942:24	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{78}e^{12}, \frac{1}{68}\sqrt{278}e^{34}, \frac{3}{17}\sqrt{2}e^{16} + \frac{1}{17}\sqrt{21}e^{23},$ $\frac{1}{68}\sqrt{226}e^{14} + \frac{3}{34}\sqrt{2}e^{26}$	$(0, -\frac{1}{68}, 0, -\frac{1}{34}, \frac{11}{68}, -\frac{1}{68}, -\frac{1}{34}, -\frac{1}{68}, -\frac{1}{34})$ $- \frac{1}{68}\sqrt{102}e^3 \otimes e_9 + \frac{1}{68}\sqrt{330}e^1 \otimes e_7$	{1234589, 123489, 134569, 13469}
942:24	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{78}e^{12}, \frac{1}{68}\sqrt{278}e^{34}, \frac{3}{17}\sqrt{2}e^{16} + \frac{1}{17}\sqrt{21}e^{23},$ $\frac{1}{68}\sqrt{226}e^{14} + \frac{3}{34}\sqrt{2}e^{26}$	$(0, -\frac{1}{68}, 0, -\frac{1}{34}, \frac{11}{68}, -\frac{1}{68}, -\frac{1}{34}, -\frac{1}{68}, -\frac{1}{34})$ $+ \frac{1}{68}\sqrt{102}e^3 \otimes e_9 + \frac{1}{68}\sqrt{330}e^1 \otimes e_7$	{1234589, 123489, 134569, 13469}
942:24	$0, 0, 0, 0, 0, \frac{96}{377}\sqrt{3}e^{12}, \frac{16}{377}\sqrt{37}e^{34}, \frac{16}{377}\sqrt{57}e^{16} + \frac{16}{377}\sqrt{199}e^{23},$ $\frac{16}{377}\sqrt{154}e^{14} + \frac{48}{377}\sqrt{2}e^{26}$	$(\frac{40}{377}, -\frac{44}{377}, \frac{80}{377}, -\frac{88}{377}, \frac{164}{377}, -\frac{4}{377}, -\frac{8}{377}, \frac{36}{377}, -\frac{48}{377})$ $+ \frac{16}{377}\sqrt{213}e^3 \otimes e_9 + \frac{48}{377}\sqrt{15}e^5 \otimes e_8$	{126789, 1579}
942:24	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{393}e^{12}, \frac{1}{58}\sqrt{1703}e^{34}, \frac{3}{116}\sqrt{131}e^{16} + \frac{1}{116}\sqrt{9170}e^{23},$ $\frac{1}{116}\sqrt{786}e^{14} + \frac{3}{116}\sqrt{131}e^{26}$	$(\frac{55}{232}, -\frac{9}{232}, \frac{55}{116}, -\frac{9}{116}, -\frac{19}{232}, \frac{23}{116}, \frac{23}{58}, \frac{101}{232}, \frac{37}{232})$ $+ \frac{29}{29}\sqrt{393}e^3 \otimes e_5$	{125689, 159, 258, 56}
942:24	$0, 0, 0, 0, 0, \frac{3}{74}\sqrt{70}e^{12}, \frac{3}{74}\sqrt{70}e^{34}, \frac{1}{74}\sqrt{570}e^{16} + \frac{3}{74}\sqrt{70}e^{23},$ $\frac{3}{74}\sqrt{42}e^{14} + \frac{1}{74}\sqrt{186}e^{26}$	$(\frac{5}{74}, -\frac{11}{148}, \frac{5}{37}, \frac{11}{74}, \frac{21}{148}, -\frac{1}{148}, -\frac{1}{74}, \frac{9}{148}, -\frac{3}{37})$ $+ \frac{1}{74}\sqrt{6}e^5 \otimes e_8 + \frac{1}{74}\sqrt{762}e^1 \otimes e_7$	{123489, 134569}
942:24	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{2938}e^{12}, \frac{2}{169}\sqrt{754}e^{34}, \frac{2}{169}\sqrt{663}e^{16} + \frac{1}{169}\sqrt{2886}e^{23},$ $\frac{2}{169}\sqrt{442}e^{14} + \frac{1}{169}\sqrt{858}e^{26}$	$(\frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, 0, 0, \frac{1}{13}, -\frac{1}{13})$ $+ \frac{2}{169}\sqrt{897}e^1 \otimes e_7 + \frac{3}{169}\sqrt{26}e^3 \otimes e_5$	{123489, 13469}
942:24	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{22}e^{12}, \frac{1}{11}\sqrt{154}e^{34}, \frac{1}{11}\sqrt{66}e^{16} + \frac{1}{11}\sqrt{110}e^{23},$ $\frac{1}{11}\sqrt{110}e^{14} + \frac{1}{11}\sqrt{66}e^{26}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{3}{11}\sqrt{22}e^5 \otimes e_7$	{1234589, 134569, 345}
942:24	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{209}e^{12}, \frac{28}{485}\sqrt{3}e^{34}, \frac{84}{485}\sqrt{23}e^{16} + \frac{28}{485}\sqrt{138}e^{23},$ $\frac{56}{485}e^{14} + \frac{28}{485}\sqrt{6}e^{26}$	$(\frac{73}{485}, \frac{6}{485}, \frac{146}{485}, \frac{12}{485}, -\frac{319}{485}, \frac{79}{485}, \frac{158}{485}, \frac{152}{485}, \frac{17}{97})$ $+ \frac{28}{485}\sqrt{402}e^1 \otimes e_5$	{123489, 13469, 234568, 345}
942:24	$0, 0, 0, 0, 0, \frac{6}{77}\sqrt{11}e^{12}, \frac{1}{77}\sqrt{1122}e^{34}, \frac{2}{77}\sqrt{165}e^{16} + \frac{1}{77}\sqrt{858}e^{23},$ $\frac{1}{77}\sqrt{858}e^{14} + \frac{6}{77}\sqrt{22}e^{26}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{3}{7}, 0, 0, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{2}{77}\sqrt{6}e^3 \otimes e_9 + \frac{5}{77}\sqrt{66}e^5 \otimes e_7$	{24789, 4679}
942:24	$0, 0, 0, 0, 0, \frac{87}{1879}\sqrt{6}e^{12}, \frac{29}{1879}\sqrt{158}e^{34},$ $\frac{58}{1879}\sqrt{30}e^{16} + \frac{29}{1879}\sqrt{742}e^{23}, \frac{58}{1879}\sqrt{298}e^{14} + \frac{87}{1879}\sqrt{22}e^{26}$	$(\frac{377}{1879}, -\frac{232}{1879}, \frac{754}{1879}, -\frac{464}{1879}, -\frac{464}{1879}, \frac{145}{1879}, \frac{290}{1879}, \frac{522}{1879}, -\frac{87}{1879})$ $+ \frac{29}{1879}\sqrt{1986}e^3 \otimes e_9 + \frac{435}{1879}\sqrt{6}e^1 \otimes e_5$	{245789, 45679}
942:24	$0, 0, 0, 0, 0, \frac{3}{409}\sqrt{34}e^{12}, \frac{1}{409}\sqrt{46}e^{34}, \frac{2}{409}\sqrt{33}e^{16} + \frac{1}{409}\sqrt{478}e^{23},$ $\frac{1}{409}\sqrt{478}e^{14} + \frac{2}{409}\sqrt{33}e^{26}$	$(-\frac{1}{409}, -\frac{1}{409}, -\frac{2}{409}, -\frac{2}{409}, \frac{19}{409}, -\frac{2}{409}, -\frac{4}{409}, -\frac{3}{409}, -\frac{3}{409})$ $+ \frac{1}{409}\sqrt{390}e^3 \otimes e_9 + \frac{1}{409}\sqrt{390}e^4 \otimes e_8$	{1256789, 126789}
942:24	$0, 0, 0, 0, 0, \frac{3}{377}\sqrt{190}e^{12}, \frac{20}{377}\sqrt{5}e^{34}, \frac{8}{377}\sqrt{30}e^{16} + \frac{3}{377}\sqrt{170}e^{23},$ $\frac{10}{377}\sqrt{7}e^{14} + \frac{4}{377}\sqrt{15}e^{26}$	$(-\frac{3}{377}, -\frac{1}{377}, -\frac{6}{377}, -\frac{2}{377}, \frac{41}{377}, -\frac{4}{377}, -\frac{8}{377}, -\frac{7}{377}, -\frac{5}{377})$ $+ \frac{1}{377}\sqrt{2490}e^1 \otimes e_7 + \frac{1}{377}\sqrt{870}e^4 \otimes e_8$	{134569, 13469}
942:25	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{415}e^{12}, \frac{1}{95}\sqrt{7138}e^{13}, \frac{1}{95}\sqrt{5146}e^{16} + \frac{2}{95}\sqrt{1577}e^{34},$ $\frac{1}{19}\sqrt{166}e^{26} + \frac{1}{95}\sqrt{5146}e^{35}$	$(\frac{11}{95}, -\frac{2}{95}, \frac{9}{19}, -\frac{5}{19}, -\frac{2}{95}, \frac{9}{95}, \frac{56}{95}, \frac{4}{19}, \frac{7}{95})$ $+ \frac{2}{95}\sqrt{3403}e^3 \otimes e_5$	{12368, 1245678, 134, 157}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:25	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{10}{787}\sqrt{2795}e^{13},$ $\frac{4}{787}\sqrt{22790}e^{16} + \frac{4}{787}\sqrt{4730}e^{34}, \frac{4}{787}\sqrt{13330}e^{26} + \frac{4}{787}\sqrt{22790}e^{35}$	$(-\frac{138}{787}, \frac{209}{787}, -\frac{83}{787}, \frac{16}{787}, \frac{363}{787}, \frac{71}{787}, -\frac{221}{787}, -\frac{67}{787}, \frac{280}{787})$ $+ \frac{2}{787}\sqrt{146845}e^5 \otimes e_8$	{1248, 134567, 23689, 579}
942:25	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{2}{787}\sqrt{76970}e^{13},$ $\frac{2}{787}\sqrt{55685}e^{16} + \frac{4}{787}\sqrt{4730}e^{34}, \frac{10}{787}\sqrt{3741}e^{26} + \frac{2}{787}\sqrt{55685}e^{35}$	$(-\frac{138}{787}, \frac{209}{787}, -\frac{83}{787}, \frac{16}{787}, \frac{363}{787}, \frac{71}{787}, -\frac{221}{787}, -\frac{67}{787}, \frac{280}{787})$ $+ \frac{2}{787}\sqrt{146845}e^2 \otimes e_7$	{123459, 146789, 256, 378}
942:25	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{340}{1369}\sqrt{2}e^{13},$ $\frac{17}{1369}\sqrt{670}e^{16} + \frac{17}{1369}\sqrt{617}e^{34}, \frac{17}{1369}\sqrt{130}e^{26} + \frac{51}{1369}\sqrt{113}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+ \frac{17}{1369}\sqrt{1041}e^4 \otimes e_9 - \frac{17}{1369}\sqrt{1441}e^5 \otimes e_8$	{1248, 134567, 23689, 579}
942:25	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{340}{1369}\sqrt{2}e^{13},$ $\frac{17}{1369}\sqrt{670}e^{16} + \frac{17}{1369}\sqrt{617}e^{34}, \frac{17}{1369}\sqrt{130}e^{26} + \frac{51}{1369}\sqrt{113}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+ \frac{17}{1369}\sqrt{1041}e^4 \otimes e_9 + \frac{17}{1369}\sqrt{1441}e^5 \otimes e_8$	{1248, 134567, 23689, 579}
942:25	$0, 0, 0, 0, 0, \frac{6}{935}\sqrt{681}e^{12}, \frac{78}{935}\sqrt{3}e^{13}, \frac{12}{935}\sqrt{318}e^{16} + \frac{12}{935}\sqrt{42}e^{34},$ $\frac{24}{935}\sqrt{21}e^{26} + \frac{12}{935}\sqrt{318}e^{35}$	$(\frac{6}{187}, -\frac{27}{935}, -\frac{111}{935}, \frac{144}{935}, \frac{87}{935}, \frac{3}{935}, -\frac{81}{935}, \frac{3}{85}, -\frac{24}{935})$ $- \frac{12}{935}\sqrt{318}e^1 \otimes e_9 + \frac{18}{935}\sqrt{141}e^5 \otimes e_8$	{128, 13567, 234689, 4579}
942:25	$0, 0, 0, 0, 0, \frac{6}{935}\sqrt{681}e^{12}, \frac{78}{935}\sqrt{3}e^{13}, \frac{12}{935}\sqrt{318}e^{16} + \frac{12}{935}\sqrt{42}e^{34},$ $\frac{24}{935}\sqrt{21}e^{26} + \frac{12}{935}\sqrt{318}e^{35}$	$(\frac{6}{187}, -\frac{27}{935}, -\frac{111}{935}, \frac{144}{935}, \frac{87}{935}, \frac{3}{935}, -\frac{81}{935}, \frac{3}{85}, -\frac{24}{935})$ $+ \frac{12}{935}\sqrt{318}e^1 \otimes e_9 + \frac{18}{935}\sqrt{141}e^5 \otimes e_8$	{128, 13567, 234689, 4579}
942:25	$0, 0, 0, 0, 0, \frac{2}{2469}\sqrt{212971}e^{12}, \frac{2}{2469}\sqrt{217047}e^{13},$ $\frac{4}{2469}\sqrt{96805}e^{16} + \frac{2}{2469}\sqrt{936461}e^{34}, \frac{8}{2469}\sqrt{54007}e^{26} + \frac{2}{2469}\sqrt{310795}e^{35}$	$(\frac{266}{823}, -\frac{643}{2469}, -\frac{199}{823}, \frac{1550}{2469}, \frac{109}{2469}, \frac{155}{2469}, \frac{67}{823}, \frac{953}{2469}, -\frac{488}{2469})$ $+ \frac{2}{2469}\sqrt{2094045}e^4 \otimes e_9$	{1259, 136789, 23456, 478}
942:25	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{3}e^{12}, \frac{2}{89}\sqrt{174}e^{13}, \frac{4}{89}\sqrt{33}e^{16} + \frac{2}{89}\sqrt{86}e^{34},$ $\frac{2}{89}\sqrt{158}e^{26} + \frac{4}{89}\sqrt{33}e^{35}$	$(-\frac{8}{89}, \frac{10}{89}, \frac{10}{89}, -\frac{16}{89}, \frac{2}{89}, \frac{2}{89}, \frac{2}{89}, -\frac{6}{89}, \frac{12}{89})$ $+ \frac{2}{89}\sqrt{146}e^3 \otimes e_5 + \frac{4}{89}\sqrt{47}e^2 \otimes e_7$	{256, 378}
942:25	$0, 0, 0, 0, 0, \frac{16}{109}\sqrt{5}e^{12}, \frac{16}{545}\sqrt{2}e^{13}, \frac{16}{545}e^{16} + \frac{16}{545}\sqrt{218}e^{34},$ $\frac{64}{545}\sqrt{10}e^{26} + \frac{16}{545}\sqrt{106}e^{35}$	$(-\frac{64}{545}, \frac{88}{545}, \frac{24}{109}, -\frac{32}{109}, -\frac{8}{545}, \frac{24}{545}, \frac{56}{545}, -\frac{8}{109}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^3 \otimes e_5 - \frac{48}{545}\sqrt{35}e^2 \otimes e_8$	{2346, 2567, 38, 4578}
942:25	$0, 0, 0, 0, 0, \frac{16}{109}\sqrt{5}e^{12}, \frac{16}{545}\sqrt{2}e^{13}, \frac{16}{545}e^{16} + \frac{16}{545}\sqrt{218}e^{34},$ $\frac{64}{545}\sqrt{10}e^{26} + \frac{16}{545}\sqrt{106}e^{35}$	$(-\frac{64}{545}, \frac{88}{545}, \frac{24}{109}, -\frac{32}{109}, -\frac{8}{545}, \frac{24}{545}, \frac{56}{545}, -\frac{8}{109}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^3 \otimes e_5 + \frac{48}{545}\sqrt{35}e^2 \otimes e_8$	{2346, 2567, 38, 4578}
942:25	$0, 0, 0, 0, 0, \frac{6}{679}\sqrt{159}e^{12}, \frac{3}{679}\sqrt{2046}e^{13}, \frac{3}{679}\sqrt{1578}e^{16} + \frac{72}{679}\sqrt{3}e^{34},$ $\frac{9}{679}\sqrt{122}e^{26} + \frac{3}{679}\sqrt{1578}e^{35}$	$(\frac{51}{679}, -\frac{54}{679}, -\frac{15}{679}, \frac{9}{97}, -\frac{6}{97}, -\frac{3}{679}, \frac{36}{679}, \frac{48}{679}, -\frac{57}{679})$ $+ \frac{12}{679}\sqrt{123}e^3 \otimes e_5 + \frac{12}{679}\sqrt{123}e^4 \otimes e_7$	{134, 157}
942:25	$0, 0, 0, 0, 0, \frac{22}{751}\sqrt{105}e^{12}, \frac{22}{751}\sqrt{186}e^{13}, \frac{11}{751}\sqrt{1302}e^{16} + \frac{231}{751}\sqrt{2}e^{34},$ $\frac{22}{751}\sqrt{174}e^{26} + \frac{11}{751}\sqrt{1302}e^{35}$	$(-\frac{77}{751}, \frac{132}{751}, -\frac{154}{751}, \frac{132}{751}, \frac{341}{751}, \frac{55}{751}, -\frac{231}{751}, -\frac{22}{751}, \frac{187}{751})$ $+ \frac{11}{751}\sqrt{1158}e^4 \otimes e_7 + \frac{44}{751}\sqrt{177}e^5 \otimes e_8$	{1248, 579}
942:25	$0, 0, 0, 0, 0, \frac{82}{5029}\sqrt{226}e^{12}, \frac{82}{5029}\sqrt{1043}e^{13},$ $\frac{82}{5029}\sqrt{561}e^{16} + \frac{82}{5029}\sqrt{17}e^{34}, \frac{123}{5029}\sqrt{382}e^{26} + \frac{41}{5029}\sqrt{1186}e^{35}$	$(-\frac{943}{5029}, \frac{1271}{5029}, \frac{533}{5029}, -\frac{1148}{5029}, \frac{1066}{5029}, \frac{328}{5029}, -\frac{410}{5029}, -\frac{615}{5029}, \frac{1599}{5029})$ $+ \frac{41}{5029}\sqrt{5938}e^2 \otimes e_7 + \frac{943}{5029}\sqrt{6}e^3 \otimes e_4$	{146789, 378}
942:25	$0, 0, 0, 0, 0, \frac{4}{2343}\sqrt{30749}e^{12}, \frac{4}{2343}\sqrt{212073}e^{13},$ $\frac{4}{2343}\sqrt{22190}e^{16} + \frac{4}{2343}\sqrt{114754}e^{34}, \frac{4}{2343}\sqrt{44063}e^{26} + \frac{20}{2343}\sqrt{9193}e^{35}$	$(-\frac{8}{71}, \frac{614}{2343}, \frac{437}{781}, -\frac{1225}{2343}, -\frac{347}{2343}, \frac{350}{2343}, \frac{349}{781}, \frac{86}{2343}, \frac{964}{2343})$ $+ \frac{4}{2343}\sqrt{622905}e^3 \otimes e_4$	{12369, 1245679, 2357, 24}
942:25	$0, 0, 0, 0, 0, \frac{22}{151}e^{12}, \frac{22}{755}\sqrt{142}e^{13}, \frac{44}{755}\sqrt{51}e^{16} + \frac{22}{755}\sqrt{302}e^{34},$ $\frac{22}{755}\sqrt{235}e^{26} + \frac{22}{755}\sqrt{89}e^{35}$	$(\frac{154}{755}, -\frac{143}{755}, \frac{11}{151}, \frac{22}{151}, -\frac{187}{755}, \frac{11}{755}, \frac{209}{755}, \frac{33}{151}, -\frac{132}{755})$ $+ \frac{154}{755}\sqrt{7}e^3 \otimes e_5 + \frac{22}{755}\sqrt{345}e^4 \otimes e_9$	{1245678, 134}
942:25	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{415}e^{12}, \frac{1}{95}\sqrt{7138}e^{13}, \frac{1}{95}\sqrt{5146}e^{16} + \frac{2}{95}\sqrt{1577}e^{34},$ $\frac{1}{19}\sqrt{166}e^{26} + \frac{1}{95}\sqrt{5146}e^{35}$	$(\frac{11}{95}, -\frac{2}{95}, -\frac{37}{95}, \frac{3}{5}, \frac{44}{95}, \frac{9}{95}, -\frac{26}{95}, \frac{4}{19}, \frac{7}{95})$ $+ \frac{2}{95}\sqrt{3403}e^4 \otimes e_7$	{134, 157, 235789, 2489}
942:25	$0, 0, 0, 0, 0, \frac{82}{5029}\sqrt{226}e^{12}, \frac{41}{5029}\sqrt{1766}e^{13},$ $\frac{41}{5029}\sqrt{3694}e^{16} + \frac{82}{5029}\sqrt{17}e^{34}, \frac{209}{5029}e^{26} + \frac{492}{5029}\sqrt{33}e^{35}$	$(-\frac{943}{5029}, \frac{1271}{5029}, \frac{533}{5029}, -\frac{1148}{5029}, \frac{1066}{5029}, \frac{328}{5029}, -\frac{410}{5029}, -\frac{615}{5029}, \frac{1599}{5029})$ $+ \frac{41}{5029}\sqrt{5938}e^5 \otimes e_8 + \frac{943}{5029}\sqrt{6}e^3 \otimes e_4$	{1248, 23689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:25	$0, 0, 0, 0, 0, \frac{16}{109}\sqrt{5}e^{12}, \frac{16}{545}\sqrt{2}e^{13}, \frac{16}{545}e^{16} + \frac{16}{545}\sqrt{218}e^{34},$ $\frac{64}{545}\sqrt{10}e^{26} + \frac{16}{545}\sqrt{106}e^{35}$	$(-\frac{64}{545}, \frac{88}{545}, -\frac{52}{545}, \frac{12}{545}, \frac{164}{545}, \frac{24}{545}, -\frac{116}{545}, -\frac{8}{109}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^4 \otimes e_7 - \frac{48}{545}\sqrt{35}e^2 \otimes e_8$	{1356789, 14689, 2346, 2567}
942:25	$0, 0, 0, 0, 0, \frac{16}{109}\sqrt{5}e^{12}, \frac{16}{545}\sqrt{2}e^{13}, \frac{16}{545}e^{16} + \frac{16}{545}\sqrt{218}e^{34},$ $\frac{64}{545}\sqrt{10}e^{26} + \frac{16}{545}\sqrt{106}e^{35}$	$(-\frac{64}{545}, \frac{88}{545}, -\frac{52}{545}, \frac{12}{545}, \frac{164}{545}, \frac{24}{545}, -\frac{116}{545}, -\frac{8}{109}, \frac{112}{545})$ $+ \frac{32}{545}\sqrt{43}e^4 \otimes e_7 + \frac{48}{545}\sqrt{35}e^2 \otimes e_8$	{1356789, 14689, 2346, 2567}
942:26	$0, 0, 0, 0, 0, \frac{2}{495}\sqrt{91}e^{12}, \frac{2}{165}\sqrt{37}e^{13}, \frac{4}{495}\sqrt{47}e^{16} + \frac{8}{165}\sqrt{2}e^{34},$ $\frac{2}{495}\sqrt{3}e^{26} + \frac{2}{495}\sqrt{427}e^{45}$	$(-\frac{1}{165}, -\frac{2}{495}, \frac{13}{330}, -\frac{1}{18}, \frac{41}{990}, -\frac{1}{99}, \frac{1}{30}, -\frac{8}{495}, -\frac{7}{495})$ $+ \frac{16}{495}\sqrt{6}e^5 \otimes e_7 - \frac{2}{165}\sqrt{58}e^1 \otimes e_9$	{123458, 1278, 2346789, 25689}
942:26	$0, 0, 0, 0, 0, \frac{2}{495}\sqrt{91}e^{12}, \frac{2}{165}\sqrt{37}e^{13}, \frac{4}{495}\sqrt{47}e^{16} + \frac{8}{165}\sqrt{2}e^{34},$ $\frac{2}{495}\sqrt{3}e^{26} + \frac{2}{495}\sqrt{427}e^{45}$	$(-\frac{1}{165}, -\frac{2}{495}, \frac{13}{330}, -\frac{1}{18}, \frac{41}{990}, -\frac{1}{99}, \frac{1}{30}, -\frac{8}{495}, -\frac{7}{495})$ $+ \frac{16}{495}\sqrt{6}e^5 \otimes e_7 + \frac{2}{165}\sqrt{58}e^1 \otimes e_9$	{123458, 1278, 2346789, 25689}
942:26	$0, 0, 0, 0, 0, \frac{1}{174}\sqrt{8018}e^{16} + \frac{1}{174}\sqrt{32494}e^{34}, \frac{1}{348}\sqrt{40934}e^{26} + \frac{1}{348}\sqrt{40090}e^{45}$	$(\frac{97}{348}, -\frac{3}{58}, -\frac{131}{696}, \frac{161}{232}, -\frac{361}{696}, \frac{79}{232}, \frac{21}{87}, \frac{44}{87}, \frac{61}{348})$ $+ \frac{2}{29}\sqrt{422}e^4 \otimes e_5$	{2346, 2567, 358, 478}
942:26	$0, 0, 0, 0, 0, \frac{62}{7245}\sqrt{413}e^{12}, \frac{62}{2415}\sqrt{170}e^{13},$ $\frac{496}{7245}\sqrt{10}e^{16} + \frac{31}{2415}\sqrt{38}e^{34}, \frac{31}{7245}\sqrt{2382}e^{26} + \frac{31}{7245}\sqrt{3922}e^{45}$	$(-\frac{124}{2415}, \frac{31}{1035}, \frac{341}{2415}, -\frac{310}{1449}, \frac{1612}{7245}, -\frac{31}{1449}, \frac{31}{345}, -\frac{527}{7245}, \frac{62}{7245})$ $+ \frac{124}{2415}\sqrt{51}e^3 \otimes e_9 + \frac{31}{7245}\sqrt{5982}e^5 \otimes e_7$	{1345, 569}
942:26	$0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4865}e^{12}, \frac{1}{57}\sqrt{2363}e^{13}, \frac{2}{171}\sqrt{278}e^{16} + \frac{1}{57}\sqrt{1390}e^{34},$ $\frac{1}{171}\sqrt{5421}e^{26} + \frac{1}{171}\sqrt{21823}e^{45}$	$(-\frac{13}{57}, \frac{61}{171}, -\frac{5}{114}, -\frac{1}{18}, \frac{185}{342}, \frac{22}{171}, -\frac{31}{114}, -\frac{17}{171}, \frac{83}{171})$ $+ \frac{7}{171}\sqrt{834}e^5 \otimes e_7$	{123569, 124679, 237, 245}
942:26	$0, 0, 0, 0, 0, \frac{287}{3145}\sqrt{22}e^{12}, \frac{123}{3145}\sqrt{66}e^{13},$ $\frac{246}{3145}\sqrt{11}e^{16} + \frac{82}{3145}\sqrt{143}e^{34}, \frac{41}{3145}\sqrt{946}e^{26} + \frac{123}{3145}\sqrt{66}e^{45}$	$(-\frac{123}{629}, \frac{902}{3145}, -\frac{164}{3145}, -\frac{164}{3145}, \frac{1353}{3145}, \frac{287}{3145}, -\frac{779}{3145}, -\frac{328}{3145}, \frac{1189}{3145})$ $+ \frac{41}{3145}\sqrt{2462}e^5 \otimes e_8 + \frac{41}{3145}\sqrt{2990}e^2 \otimes e_7$	{15679, 3457}
942:26	$0, 0, 0, 0, 0, \frac{44}{2345}\sqrt{131}e^{12}, \frac{22}{2345}\sqrt{87}e^{13}, \frac{22}{469}\sqrt{3}e^{16} + \frac{22}{2345}\sqrt{913}e^{34},$ $\frac{44}{2345}\sqrt{221}e^{26} + \frac{44}{2345}\sqrt{58}e^{45}$	$(-\frac{121}{2345}, \frac{11}{335}, \frac{55}{469}, -\frac{88}{469}, \frac{473}{2345}, -\frac{44}{2345}, \frac{22}{335}, -\frac{33}{469}, \frac{33}{2345})$ $+ \frac{44}{2345}\sqrt{215}e^3 \otimes e_9 + \frac{44}{2345}\sqrt{311}e^2 \otimes e_8$	{129, 145689, 2346, 358}
942:26	$0, 0, 0, 0, 0, \frac{44}{2345}\sqrt{131}e^{12}, \frac{22}{2345}\sqrt{87}e^{13}, \frac{22}{469}\sqrt{3}e^{16} + \frac{22}{2345}\sqrt{913}e^{34},$ $\frac{44}{2345}\sqrt{221}e^{26} + \frac{44}{2345}\sqrt{58}e^{45}$	$(-\frac{121}{2345}, \frac{11}{335}, \frac{55}{469}, -\frac{88}{469}, \frac{473}{2345}, -\frac{44}{2345}, \frac{22}{335}, -\frac{33}{469}, \frac{33}{2345})$ $+ \frac{44}{2345}\sqrt{215}e^3 \otimes e_9 - \frac{44}{2345}\sqrt{311}e^2 \otimes e_8$	{129, 145689, 2346, 358}
942:26	$0, 0, 0, 0, 0, \frac{4}{1161}\sqrt{458}e^{12}, \frac{32}{387}\sqrt{3}e^{13}, \frac{136}{1161}e^{16} + \frac{4}{1161}\sqrt{1074}e^{34},$ $\frac{8}{1161}\sqrt{255}e^{26} + \frac{20}{1161}\sqrt{34}e^{45}$	$(\frac{20}{387}, -\frac{52}{1161}, -\frac{4}{387}, \frac{80}{1161}, -\frac{124}{1161}, \frac{8}{1161}, \frac{16}{387}, \frac{68}{1161}, -\frac{44}{1161})$ $+ \frac{4}{387}\sqrt{210}e^4 \otimes e_7 + \frac{80}{1161}\sqrt{6}e^3 \otimes e_9$	{1345, 2489}
942:26	$0, 0, 0, 0, 0, \frac{47}{1505}\sqrt{154}e^{16} + \frac{47}{7525}\sqrt{562}e^{12}, \frac{517}{7525}\sqrt{26}e^{13},$ $\frac{47}{7525}\sqrt{5210}e^{34}, \frac{47}{7525}\sqrt{4654}e^{26} + \frac{94}{7525}\sqrt{31}e^{45}$	$(\frac{1363}{7525}, -\frac{188}{1075}, \frac{188}{1505}, \frac{94}{1505}, -\frac{1739}{7525}, \frac{47}{7525}, \frac{329}{1075}, \frac{282}{1505}, -\frac{1269}{7525})$ $+ \frac{47}{7525}\sqrt{4814}e^4 \otimes e_5 + \frac{94}{7525}\sqrt{2194}e^3 \otimes e_9$	{2489, 569}
942:26	$0, 0, 0, 0, 0, \frac{26}{3485}\sqrt{662}e^{12}, \frac{26}{3485}\sqrt{231}e^{13},$ $\frac{26}{3485}\sqrt{1259}e^{16} + \frac{26}{3485}\sqrt{397}e^{34}, \frac{78}{3485}\sqrt{14}e^{26} + \frac{52}{3485}\sqrt{334}e^{45}$	$(\frac{13}{697}, -\frac{169}{3485}, \frac{13}{85}, -\frac{572}{3485}, \frac{299}{3485}, -\frac{104}{3485}, \frac{598}{3485}, -\frac{39}{3485}, -\frac{273}{3485})$ $- \frac{26}{697}\sqrt{74}e^1 \otimes e_9 + \frac{52}{3485}\sqrt{317}e^5 \otimes e_8$	{1278, 14567, 2346789, 3579}
942:26	$0, 0, 0, 0, 0, \frac{26}{3485}\sqrt{662}e^{12}, \frac{26}{3485}\sqrt{231}e^{13},$ $\frac{26}{3485}\sqrt{1259}e^{16} + \frac{26}{3485}\sqrt{397}e^{34}, \frac{78}{3485}\sqrt{14}e^{26} + \frac{52}{3485}\sqrt{334}e^{45}$	$(\frac{13}{697}, -\frac{169}{3485}, \frac{13}{85}, -\frac{572}{3485}, \frac{299}{3485}, -\frac{104}{3485}, \frac{598}{3485}, -\frac{39}{3485}, -\frac{273}{3485})$ $+ \frac{26}{697}\sqrt{74}e^1 \otimes e_9 + \frac{52}{3485}\sqrt{317}e^5 \otimes e_8$	{1278, 14567, 2346789, 3579}
942:26	$0, 0, 0, 0, 0, \frac{2}{2889}\sqrt{673645}e^{12}, \frac{2}{2889}\sqrt{905622}e^{13},$ $\frac{2}{2889}\sqrt{643255}e^{16} + \frac{2}{2889}\sqrt{179301}e^{34}, \frac{2}{963}\sqrt{144859}e^{26} + \frac{2}{2889}\sqrt{341381}e^{45}$	$(-\frac{157}{963}, \frac{937}{2889}, -\frac{206}{963}, \frac{613}{2889}, \frac{790}{2889}, \frac{466}{2889}, -\frac{121}{321}, -\frac{5}{2889}, \frac{1403}{2889})$ $+ \frac{4}{2889}\sqrt{616917}e^2 \otimes e_7$	{123459, 1456789, 256, 3578}
942:26	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{89}e^{13}, \frac{20}{629}\sqrt{2}e^{16} + \frac{10}{629}\sqrt{542}e^{34},$ $\frac{20}{629}\sqrt{87}e^{26} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{10}{629}\sqrt{1294}e^3 \otimes e_9 - \frac{10}{629}\sqrt{938}e^5 \otimes e_8$	{12368, 1345, 2489, 569}
942:26	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{89}e^{13}, \frac{20}{629}\sqrt{2}e^{16} + \frac{10}{629}\sqrt{542}e^{34},$ $\frac{20}{629}\sqrt{87}e^{26} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{10}{629}\sqrt{1294}e^3 \otimes e_9 + \frac{10}{629}\sqrt{938}e^5 \otimes e_8$	{12368, 1345, 2489, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:26	$0, 0, 0, 0, 0, \frac{55}{6709}\sqrt{2262}e^{12}, \frac{55}{6709}\sqrt{2226}e^{13},$ $\frac{55}{6709}\sqrt{2690}e^{16} + \frac{55}{6709}\sqrt{2762}e^{34}, \frac{275}{6709}\sqrt{182}e^{26} + \frac{110}{6709}\sqrt{487}e^{45}$	$(-\frac{165}{6709}, \frac{1100}{6709}, -\frac{1760}{6709}, \frac{2530}{6709}, -\frac{495}{6709}, \frac{935}{6709}, -\frac{1925}{6709}, \frac{770}{6709}, \frac{2035}{6709})$ $+ \frac{110}{6709}\sqrt{1886}e^2 \otimes e_7 + \frac{55}{6709}\sqrt{4406}e^4 \otimes e_5$	{256, 3578}
942:26	$0, 0, 0, 0, 0, \frac{4}{2865}\sqrt{86317}e^{12}, \frac{2}{2865}\sqrt{527991}e^{13},$ $\frac{2}{2865}\sqrt{1323901}e^{16} + \frac{2}{2865}\sqrt{422617}e^{34}, \frac{4}{2865}\sqrt{163666}e^{26} + \frac{64}{2865}\sqrt{1121}e^{45}$	$(-\frac{113}{573}, \frac{243}{955}, \frac{547}{2865}, -\frac{316}{955}, \frac{1841}{2865}, \frac{164}{2865}, -\frac{6}{955}, -\frac{401}{2865}, \frac{893}{2865})$ $+ \frac{4}{955}\sqrt{75107}e^5 \otimes e_8$	{12378, 134567, 246789, 579}
942:26	$0, 0, 0, 0, 0, \frac{13}{8325}\sqrt{874}e^{12}, \frac{13}{8325}\sqrt{5934}e^{13},$ $\frac{52}{8325}\sqrt{307}e^{16} + \frac{13}{8325}\sqrt{2886}e^{34}, \frac{13}{8325}\sqrt{7266}e^{26} + \frac{26}{8325}\sqrt{59}e^{45}$	$(-\frac{91}{2775}, \frac{208}{8325}, \frac{104}{2775}, -\frac{26}{333}, \frac{793}{8325}, -\frac{13}{1665}, \frac{13}{2775}, -\frac{338}{8325}, \frac{143}{8325})$ $+ \frac{13}{8325}\sqrt{7206}e^2 \otimes e_7 + \frac{13}{8325}\sqrt{8094}e^3 \otimes e_9$	{1456789, 3578}
942:26	$0, 0, 0, 0, 0, \frac{12}{929}\sqrt{38}e^{12}, \frac{192}{929}e^{13}, \frac{24}{929}\sqrt{151}e^{16} + \frac{12}{929}\sqrt{546}e^{34},$ $\frac{264}{929}e^{26} + \frac{12}{929}\sqrt{1218}e^{45}$	$(-\frac{132}{929}, \frac{204}{929}, -\frac{108}{929}, \frac{48}{929}, \frac{228}{929}, \frac{72}{929}, -\frac{240}{929}, -\frac{60}{929}, \frac{276}{929})$ $+ \frac{12}{929}\sqrt{1586}e^4 \otimes e_7 + \frac{48}{929}\sqrt{110}e^5 \otimes e_8$	{13456, 24689}
942:26	$0, 0, 0, 0, 0, \frac{8}{2889}\sqrt{10517}e^{12}, \frac{2}{321}\sqrt{10517}e^{13},$ $\frac{2}{2889}\sqrt{688459}e^{16} + \frac{2}{2889}\sqrt{638301}e^{34}, \frac{4}{2889}\sqrt{230565}e^{26} + \frac{16}{2889}\sqrt{4045}e^{45}$	$(\frac{145}{963}, -\frac{503}{2889}, \frac{349}{963}, -\frac{680}{2889}, \frac{109}{2889}, -\frac{68}{2889}, \frac{494}{963}, \frac{367}{2889}, -\frac{571}{2889})$ $+ \frac{4}{2889}\sqrt{497535}e^3 \otimes e_9$	{12368, 1345, 2489, 569}
942:27	$0, 0, 0, 0, 0, \frac{8}{407}\sqrt{102}e^{12}, \frac{8}{407}\sqrt{669}e^{13}, \frac{24}{407}\sqrt{69}e^{26} + \frac{16}{407}\sqrt{111}e^{34},$ $\frac{16}{407}\sqrt{111}e^{16} + \frac{24}{407}\sqrt{47}e^{45}$	$(-\frac{64}{407}, \frac{84}{407}, \frac{52}{407}, \frac{52}{407}, -\frac{96}{407}, \frac{20}{407}, -\frac{12}{407}, \frac{104}{407}, -\frac{4}{37})$ $+ \frac{16}{407}\sqrt{210}e^2 \otimes e_7 + \frac{8}{407}\sqrt{246}e^3 \otimes e_9$	{123458, 156789}
942:27	$0, 0, 0, 0, 0, \frac{16}{665}\sqrt{183}e^{12}, \frac{16}{665}\sqrt{118}e^{13}, \frac{16}{665}\sqrt{57}e^{26} + \frac{32}{665}\sqrt{85}e^{34},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{45}$	$(\frac{104}{665}, -\frac{64}{665}, -\frac{32}{133}, \frac{136}{665}, \frac{8}{665}, \frac{8}{133}, -\frac{8}{95}, -\frac{24}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^4 \otimes e_5 - \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{13467, 156, 358, 478}
942:27	$0, 0, 0, 0, 0, \frac{16}{665}\sqrt{183}e^{12}, \frac{16}{665}\sqrt{118}e^{13}, \frac{16}{665}\sqrt{57}e^{26} + \frac{32}{665}\sqrt{85}e^{34},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{45}$	$(\frac{104}{665}, -\frac{64}{665}, -\frac{32}{133}, \frac{136}{665}, \frac{8}{665}, \frac{8}{133}, -\frac{8}{95}, -\frac{24}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^4 \otimes e_5 + \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{13467, 156, 358, 478}
942:27	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15}e^{12}, \frac{4}{77}\sqrt{2}e^{13}, \frac{4}{77}\sqrt{3}e^{26} + \frac{8}{77}\sqrt{7}e^{34},$ $\frac{8}{77}\sqrt{7}e^{16} + \frac{4}{77}\sqrt{6}e^{45}$	$(\frac{2}{77}, -\frac{4}{77}, \frac{8}{77}, -\frac{2}{11}, \frac{2}{11}, -\frac{2}{77}, \frac{10}{77}, -\frac{6}{77}, 0)$ $+ \frac{4}{77}\sqrt{30}e^3 \otimes e_9 + \frac{4}{77}\sqrt{39}e^1 \otimes e_8$	{1279, 1346, 245689, 3578}
942:27	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15}e^{12}, \frac{4}{77}\sqrt{2}e^{13}, \frac{4}{77}\sqrt{3}e^{26} + \frac{8}{77}\sqrt{7}e^{34},$ $\frac{8}{77}\sqrt{7}e^{16} + \frac{4}{77}\sqrt{6}e^{45}$	$(\frac{2}{77}, -\frac{4}{77}, \frac{8}{77}, -\frac{2}{11}, \frac{2}{11}, -\frac{2}{77}, \frac{10}{77}, -\frac{6}{77}, 0)$ $+ \frac{4}{77}\sqrt{30}e^3 \otimes e_9 - \frac{4}{77}\sqrt{39}e^1 \otimes e_8$	{1279, 1346, 245689, 3578}
942:27	$0, 0, 0, 0, 0, \frac{3}{80}\sqrt{46}e^{12}, \frac{1}{80}\sqrt{2438}e^{13}, \frac{1}{20}\sqrt{161}e^{26} + \frac{1}{40}\sqrt{506}e^{34},$ $\frac{1}{40}\sqrt{506}e^{16} + \frac{1}{80}\sqrt{1495}e^{45}$	$(-\frac{17}{160}, \frac{3}{16}, \frac{1}{160}, \frac{21}{80}, -\frac{23}{80}, \frac{13}{160}, -\frac{1}{10}, \frac{43}{160}, -\frac{1}{40})$ $+ \frac{1}{80}\sqrt{3243}e^2 \otimes e_7$	{123458, 156789, 2456, 3579}
942:27	$0, 0, 0, 0, 0, \frac{48}{2405}e^{12}, \frac{4}{2405}\sqrt{1163}e^{13}, \frac{4}{2405}\sqrt{1481}e^{26} + \frac{8}{2405}\sqrt{221}e^{34},$ $\frac{4}{2405}\sqrt{1154}e^{16} + \frac{4}{2405}\sqrt{1015}e^{45}$	$(\frac{44}{2405}, -\frac{6}{481}, -\frac{82}{2405}, \frac{66}{2405}, -\frac{8}{2405}, \frac{14}{2405}, -\frac{38}{2405}, -\frac{16}{2405}, \frac{58}{2405})$ $+ \frac{36}{2405}\sqrt{10}e^5 \otimes e_8 + \frac{4}{2405}\sqrt{1398}e^2 \otimes e_7$	{2456, 3579}
942:27	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{89}e^{13}, \frac{20}{629}\sqrt{87}e^{26} + \frac{20}{629}\sqrt{91}e^{34},$ $\frac{20}{629}\sqrt{2}e^{16} + \frac{120}{629}\sqrt{5}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{31}e^3 \otimes e_9 + \frac{60}{629}\sqrt{31}e^5 \otimes e_8$	{125679, 1345, 2489, 3678}
942:27	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{89}e^{13}, \frac{20}{629}\sqrt{87}e^{26} + \frac{20}{629}\sqrt{91}e^{34},$ $\frac{20}{629}\sqrt{2}e^{16} + \frac{120}{629}\sqrt{5}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{31}e^3 \otimes e_9 - \frac{60}{629}\sqrt{31}e^5 \otimes e_8$	{125679, 1345, 2489, 3678}
942:27	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15}e^{12}, \frac{4}{77}\sqrt{2}e^{13}, \frac{4}{77}\sqrt{30}e^{26} + \frac{8}{77}\sqrt{2}e^{34},$ $\frac{4}{77}\sqrt{5}e^{16} + \frac{4}{77}\sqrt{30}e^{45}$	$(-\frac{4}{77}, \frac{2}{77}, \frac{2}{11}, -\frac{2}{11}, \frac{8}{77}, -\frac{2}{77}, \frac{10}{77}, 0, -\frac{6}{77})$ $+ \frac{4}{77}\sqrt{30}e^5 \otimes e_8 - \frac{4}{77}\sqrt{39}e^2 \otimes e_9$	{1278, 134689, 2456, 3579}
942:27	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15}e^{12}, \frac{4}{77}\sqrt{2}e^{13}, \frac{4}{77}\sqrt{30}e^{26} + \frac{8}{77}\sqrt{2}e^{34},$ $\frac{4}{77}\sqrt{5}e^{16} + \frac{4}{77}\sqrt{30}e^{45}$	$(-\frac{4}{77}, \frac{2}{77}, \frac{2}{11}, -\frac{2}{11}, \frac{8}{77}, -\frac{2}{77}, \frac{10}{77}, 0, -\frac{6}{77})$ $+ \frac{4}{77}\sqrt{30}e^5 \otimes e_8 + \frac{4}{77}\sqrt{39}e^2 \otimes e_9$	{1278, 134689, 2456, 3579}
942:27	$0, 0, 0, 0, 0, \frac{12}{533}\sqrt{38}e^{12}, \frac{4}{533}\sqrt{1131}e^{13}, \frac{4}{533}\sqrt{519}e^{26} + \frac{44}{533}\sqrt{6}e^{34},$ $\frac{44}{533}\sqrt{6}e^{16} + \frac{12}{533}\sqrt{113}e^{45}$	$(\frac{14}{533}, -\frac{24}{533}, \frac{28}{533}, -\frac{62}{533}, \frac{66}{533}, -\frac{10}{533}, \frac{42}{533}, -\frac{34}{533}, \frac{4}{533})$ $+ \frac{32}{533}\sqrt{6}e^3 \otimes e_9 + \frac{4}{533}\sqrt{1110}e^5 \otimes e_7$	{124679, 2589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:27	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $-\frac{2}{29}\sqrt{42}e^4 \otimes e_7 - \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:27	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $-\frac{2}{29}\sqrt{42}e^4 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:27	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{42}e^4 \otimes e_7 - \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:27	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{42}e^4 \otimes e_7 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{123458, 1278, 134689, 156789, 2367, 2456, 3579, 49}
942:27	$0, 0, 0, 0, 0, \frac{36}{589}\sqrt{22}e^{12}, \frac{92}{589}\sqrt{11}e^{13}, \frac{4}{589}\sqrt{3223}e^{26} + \frac{44}{589}\sqrt{38}e^{34},$ $\frac{44}{589}\sqrt{38}e^{16} + \frac{20}{589}\sqrt{209}e^{45}$	$(\frac{94}{589}, -\frac{88}{589}, -\frac{68}{589}, -\frac{14}{589}, \frac{6}{31}, \frac{6}{589}, \frac{26}{589}, -\frac{82}{589}, \frac{100}{589})$ $+\frac{4}{589}\sqrt{6006}e^5 \otimes e_7$	{123569, 124679, 234789, 2589}
942:27	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{1649}e^{13}, \frac{8}{673}\sqrt{4845}e^{26} + \frac{8}{673}\sqrt{34}e^{34},$ $\frac{16}{673}\sqrt{782}e^{16} + \frac{8}{673}\sqrt{4845}e^{45}$	$(\frac{196}{673}, -\frac{176}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{388}{673}, \frac{20}{673}, \frac{212}{673}, -\frac{156}{673}, \frac{216}{673})$ $+\frac{24}{673}\sqrt{1054}e^5 \otimes e_8$	{1238, 146789, 234567, 59}
942:27	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{1649}e^{13}, \frac{8}{673}\sqrt{1479}e^{26} + \frac{16}{673}\sqrt{799}e^{34},$ $\frac{16}{673}\sqrt{799}e^{16} + \frac{24}{673}\sqrt{187}e^{45}$	$(-\frac{176}{673}, \frac{196}{673}, \frac{388}{673}, -\frac{172}{673}, \frac{16}{673}, \frac{20}{673}, \frac{212}{673}, \frac{216}{673}, -\frac{156}{673})$ $+\frac{24}{673}\sqrt{1054}e^3 \otimes e_9$	{12579, 13456, 24689, 378}
942:27	$0, 0, 0, 0, 0, \frac{15}{101}e^{12}, \frac{5}{101}\sqrt{137}e^{13}, \frac{10}{101}\sqrt{35}e^{26} + \frac{5}{202}\sqrt{554}e^{34},$ $\frac{5}{202}\sqrt{470}e^{16} + \frac{95}{202}e^{45}$	$(-\frac{55}{404}, \frac{15}{101}, \frac{65}{404}, 0, -\frac{25}{202}, \frac{5}{404}, \frac{5}{202}, \frac{65}{404}, -\frac{25}{202})$ $+\frac{15}{101}\sqrt{7}e^4 \otimes e_5 + \frac{5}{202}\sqrt{597}e^2 \otimes e_7$	{123458, 2456}
942:27	$0, 0, 0, 0, 0, \frac{16}{613}\sqrt{498}e^{12}, \frac{4}{613}\sqrt{16351}e^{13},$ $\frac{4}{613}\sqrt{13695}e^{26} + \frac{8}{613}\sqrt{7885}e^{34}, \frac{4}{613}\sqrt{17098}e^{16} + \frac{4}{613}\sqrt{13695}e^{45}$	$(-\frac{14}{613}, \frac{160}{613}, -\frac{92}{613}, \frac{398}{613}, -\frac{266}{613}, \frac{146}{613}, -\frac{106}{613}, \frac{306}{613}, \frac{132}{613})$ $+\frac{12}{613}\sqrt{4814}e^4 \otimes e_5$	{13467, 156, 358, 478}
942:27	$0, 0, 0, 0, 0, \frac{88}{2675}\sqrt{39}e^{12}, \frac{44}{2675}\sqrt{223}e^{13},$ $\frac{44}{2675}\sqrt{615}e^{26} + \frac{88}{2675}\sqrt{307}e^{34}, \frac{44}{2675}\sqrt{862}e^{16} + \frac{132}{2675}\sqrt{19}e^{45}$	$(-\frac{22}{107}, \frac{704}{2675}, \frac{572}{2675}, \frac{286}{2675}, -\frac{682}{2675}, \frac{154}{2675}, \frac{22}{2675}, \frac{858}{2675}, -\frac{396}{2675})$ $+\frac{132}{2675}\sqrt{122}e^4 \otimes e_5 + \frac{264}{2675}\sqrt{37}e^3 \otimes e_9$	{13467, 358}
942:28	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{102}e^{12}, \frac{5}{218}\sqrt{70}e^{13} + \frac{15}{218}\sqrt{38}e^{24}, \frac{5}{218}\sqrt{466}e^{16},$ $\frac{5}{218}\sqrt{246}e^{26} + \frac{5}{218}\sqrt{298}e^{35}$	$(\frac{10}{109}, -\frac{25}{218}, \frac{10}{109}, \frac{65}{218}, -\frac{25}{109}, -\frac{5}{218}, \frac{20}{109}, \frac{15}{218}, -\frac{15}{109})$ $+\frac{15}{109}\sqrt{14}e^4 \otimes e_8 + \frac{15}{218}\sqrt{30}e^1 \otimes e_9$	{123578, 134567, 256789, 4579}
942:28	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{102}e^{12}, \frac{5}{218}\sqrt{70}e^{13} + \frac{15}{218}\sqrt{38}e^{24}, \frac{5}{218}\sqrt{466}e^{16},$ $\frac{5}{218}\sqrt{246}e^{26} + \frac{5}{218}\sqrt{298}e^{35}$	$(\frac{10}{109}, -\frac{25}{218}, \frac{10}{109}, \frac{65}{218}, -\frac{25}{109}, -\frac{5}{218}, \frac{20}{109}, \frac{15}{218}, -\frac{15}{109})$ $+\frac{15}{109}\sqrt{14}e^4 \otimes e_8 - \frac{15}{218}\sqrt{30}e^1 \otimes e_9$	{123578, 134567, 256789, 4579}
942:28	$0, 0, 0, 0, 0, \frac{16}{613}\sqrt{885}e^{12}, \frac{28}{613}\sqrt{118}e^{13} + \frac{4}{613}\sqrt{12095}e^{24},$ $\frac{20}{613}\sqrt{295}e^{16}, \frac{8}{613}\sqrt{5251}e^{26} + \frac{20}{613}\sqrt{295}e^{35}$	$(-\frac{134}{613}, \frac{222}{613}, \frac{106}{613}, -\frac{250}{613}, \frac{204}{613}, \frac{88}{613}, -\frac{28}{613}, -\frac{46}{613}, \frac{310}{613})$ $+\frac{4}{613}\sqrt{31506}e^2 \otimes e_4$	{12359, 1345689, 256, 458}
942:28	$0, 0, 0, 0, 0, \frac{48}{389}\sqrt{15}e^{12}, \frac{12}{389}\sqrt{102}e^{13} + \frac{36}{389}\sqrt{15}e^{24}, \frac{12}{389}\sqrt{105}e^{16},$ $\frac{24}{389}\sqrt{51}e^{26} + \frac{12}{389}\sqrt{105}e^{35}$	$(-\frac{102}{389}, \frac{126}{389}, \frac{138}{389}, -\frac{90}{389}, \frac{12}{389}, \frac{24}{389}, \frac{36}{389}, -\frac{78}{389}, \frac{150}{389})$ $+\frac{12}{389}\sqrt{546}e^2 \otimes e_4 + \frac{48}{389}\sqrt{30}e^3 \otimes e_8$	{13469, 268}
942:28	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{15}e^{12}, \frac{2}{47}\sqrt{23}e^{13} + \frac{2}{47}\sqrt{85}e^{24}, \frac{2}{47}\sqrt{23}e^{16},$ $\frac{2}{47}\sqrt{29}e^{26} + \frac{8}{47}\sqrt{5}e^{35}$	$(\frac{8}{47}, -\frac{6}{47}, -\frac{10}{47}, \frac{4}{47}, \frac{6}{47}, \frac{2}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{4}{47})$ $-\frac{2}{47}\sqrt{87}e^5 \otimes e_7 + \frac{4}{47}\sqrt{21}e^4 \otimes e_9$	{123679, 1589, 2345, 4678}
942:28	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{15}e^{12}, \frac{2}{47}\sqrt{23}e^{13} + \frac{2}{47}\sqrt{85}e^{24}, \frac{2}{47}\sqrt{23}e^{16},$ $\frac{2}{47}\sqrt{29}e^{26} + \frac{8}{47}\sqrt{5}e^{35}$	$(\frac{8}{47}, -\frac{6}{47}, -\frac{10}{47}, \frac{4}{47}, \frac{6}{47}, \frac{2}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{4}{47})$ $+\frac{2}{47}\sqrt{87}e^5 \otimes e_7 + \frac{4}{47}\sqrt{21}e^4 \otimes e_9$	{123679, 1589, 2345, 4678}
942:28	$0, 0, 0, 0, 0, \frac{88}{1547}\sqrt{15}e^{12}, \frac{440}{1547}e^{13} + \frac{44}{1547}\sqrt{265}e^{24}, \frac{44}{1547}\sqrt{31}e^{16},$ $\frac{44}{1547}\sqrt{178}e^{26} + \frac{44}{221}\sqrt{5}e^{35}$	$(\frac{176}{1547}, -\frac{198}{1547}, \frac{22}{91}, \frac{44}{91}, -\frac{594}{1547}, -\frac{22}{1547}, \frac{550}{1547}, \frac{22}{221}, -\frac{220}{1547})$ $+\frac{264}{1547}\sqrt{23}e^4 \otimes e_9 + \frac{44}{1547}\sqrt{534}e^3 \otimes e_5$	{23789, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:28	$0, 0, 0, 0, 0, \frac{16}{589}\sqrt{249}e^{12}, \frac{8}{589}\sqrt{7387}e^{13} + \frac{4}{589}\sqrt{11039}e^{24},$ $\frac{4}{589}\sqrt{12367}e^{16}, \frac{4}{589}\sqrt{14110}e^{26} + \frac{4}{589}\sqrt{12367}e^{35}$	$(-\frac{80}{589}, \frac{90}{589}, \frac{382}{589}, \frac{212}{589}, -\frac{282}{589}, \frac{10}{589}, \frac{302}{589}, -\frac{70}{589}, \frac{100}{589})$ $+ \frac{4}{589}\sqrt{42330}e^3 \otimes e_5$	{12368, 1245678, 134, 157}
942:28	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{91}e^{13} + \frac{120}{629}\sqrt{5}e^{24}, \frac{20}{629}\sqrt{178}e^{16},$ $\frac{20}{629}\sqrt{93}e^{26} + \frac{20}{629}\sqrt{271}e^{35}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, \frac{10}{37}, -\frac{200}{629}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{31}e^3 \otimes e_8 + \frac{60}{629}\sqrt{31}e^4 \otimes e_9$	{123679, 1589, 2345, 4678}
942:28	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{91}e^{13} + \frac{120}{629}\sqrt{5}e^{24}, \frac{20}{629}\sqrt{178}e^{16},$ $\frac{20}{629}\sqrt{93}e^{26} + \frac{20}{629}\sqrt{271}e^{35}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, \frac{10}{37}, -\frac{200}{629}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{31}e^3 \otimes e_8 - \frac{60}{629}\sqrt{31}e^4 \otimes e_9$	{123679, 1589, 2345, 4678}
942:28	$0, 0, 0, 0, 0, \frac{6}{143}\sqrt{10}e^{12}, \frac{2}{143}\sqrt{129}e^{13} + \frac{4}{143}\sqrt{15}e^{24}, \frac{2}{143}\sqrt{219}e^{16},$ $\frac{6}{143}\sqrt{11}e^{26} + \frac{2}{143}\sqrt{219}e^{35}$	$(\frac{7}{143}, -\frac{3}{143}, -\frac{16}{143}, -\frac{6}{143}, \frac{17}{143}, \frac{4}{143}, -\frac{9}{143}, \frac{1}{13}, \frac{1}{143})$ $- \frac{2}{143}\sqrt{159}e^1 \otimes e_9 + \frac{4}{143}\sqrt{57}e^5 \otimes e_8$	{1248, 134567, 234689, 4579}
942:28	$0, 0, 0, 0, 0, \frac{6}{143}\sqrt{10}e^{12}, \frac{2}{143}\sqrt{129}e^{13} + \frac{4}{143}\sqrt{15}e^{24}, \frac{2}{143}\sqrt{219}e^{16},$ $\frac{6}{143}\sqrt{11}e^{26} + \frac{2}{143}\sqrt{219}e^{35}$	$(\frac{7}{143}, -\frac{3}{143}, -\frac{16}{143}, -\frac{6}{143}, \frac{17}{143}, \frac{4}{143}, -\frac{9}{143}, \frac{1}{13}, \frac{1}{143})$ $+ \frac{2}{143}\sqrt{159}e^1 \otimes e_9 + \frac{4}{143}\sqrt{57}e^5 \otimes e_8$	{1248, 134567, 234689, 4579}
942:28	$0, 0, 0, 0, 0, \frac{10}{187}\sqrt{6}e^{12}, \frac{20}{187}\sqrt{35}e^{13} + \frac{20}{187}\sqrt{34}e^{24}, \frac{10}{187}\sqrt{138}e^{16},$ $\frac{5}{187}\sqrt{467}e^{26} + \frac{95}{187}e^{35}$	$(\frac{20}{187}, -\frac{45}{374}, 0, \frac{5}{22}, -\frac{25}{187}, -\frac{5}{374}, \frac{20}{187}, \frac{35}{374}, -\frac{25}{187})$ $+ \frac{5}{187}\sqrt{255}e^3 \otimes e_5 + \frac{5}{187}\sqrt{573}e^4 \otimes e_8$	{123578, 134567}
942:28	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{370}e^{13} + \frac{60}{629}\sqrt{51}e^{24}, \frac{20}{629}\sqrt{457}e^{16},$ $\frac{40}{629}\sqrt{93}e^{26} + \frac{20}{629}\sqrt{271}e^{35}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, \frac{10}{37}, -\frac{200}{629}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{62}e^4 \otimes e_8$	{124569, 1589, 2345, 3568}
942:28	$0, 0, 0, 0, 0, \frac{48}{2405}e^{12}, \frac{20}{481}\sqrt{2}e^{13} + \frac{4}{2405}\sqrt{1015}e^{24}, \frac{4}{2405}\sqrt{1259}e^{16},$ $\frac{8}{2405}\sqrt{233}e^{26} + \frac{4}{2405}\sqrt{1529}e^{35}$	$(\frac{44}{2405}, -\frac{6}{481}, -\frac{82}{2405}, -\frac{8}{2405}, \frac{66}{2405}, \frac{14}{2405}, -\frac{38}{2405}, \frac{58}{2405}, -\frac{16}{2405})$ $+ \frac{36}{2405}\sqrt{10}e^4 \otimes e_9 + \frac{4}{2405}\sqrt{1398}e^5 \otimes e_8$	{1248, 134567}
942:28	$0, 0, 0, 0, 0, \frac{3}{80}\sqrt{46}e^{12}, \frac{1}{8}\sqrt{23}e^{13} + \frac{1}{80}\sqrt{1495}e^{24}, \frac{1}{80}\sqrt{2714}e^{16},$ $\frac{1}{80}\sqrt{2162}e^{26} + \frac{1}{80}\sqrt{2714}e^{35}$	$(-\frac{17}{160}, \frac{3}{16}, \frac{1}{160}, -\frac{23}{80}, \frac{21}{80}, \frac{13}{160}, -\frac{1}{10}, -\frac{1}{40}, \frac{43}{160})$ $+ \frac{1}{80}\sqrt{3243}e^5 \otimes e_8$	{1248, 134567, 234689, 4579}
942:28	$0, 0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{1}{10}\sqrt{30}e^{13} + \frac{1}{2}e^{24}, \frac{3}{5}e^{16},$ $\frac{1}{10}\sqrt{38}e^{26} + \frac{3}{5}e^{35}$	$(\frac{1}{20}, 0, -\frac{3}{20}, -\frac{1}{10}, \frac{1}{5}, \frac{1}{20}, -\frac{1}{10}, \frac{1}{10}, \frac{1}{20})$ $+ \frac{1}{10}\sqrt{37}e^5 \otimes e_8 + \frac{1}{5}\sqrt{5}e^2 \otimes e_4$	{124569, 2345}
942:28	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{34}e^{13} + \frac{24}{673}\sqrt{187}e^{24}, \frac{8}{673}\sqrt{4879}e^{16},$ $\frac{8}{673}\sqrt{3162}e^{26} + \frac{8}{673}\sqrt{4879}e^{35}$	$(-\frac{176}{673}, \frac{196}{673}, \frac{388}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{20}{673}, \frac{212}{673}, -\frac{156}{673}, \frac{216}{673})$ $+ \frac{24}{673}\sqrt{1054}e^3 \otimes e_8$	{1248, 134567, 256789, 39}
942:28	$0, 0, 0, 0, 0, \frac{21}{121}\sqrt{5}e^{12}, \frac{14}{121}\sqrt{23}e^{13} + \frac{28}{121}\sqrt{5}e^{24}, \frac{7}{121}\sqrt{65}e^{16},$ $\frac{7}{121}\sqrt{119}e^{26} + \frac{7}{121}\sqrt{65}e^{35}$	$(-\frac{28}{121}, \frac{63}{242}, \frac{42}{121}, -\frac{35}{242}, -\frac{7}{121}, \frac{7}{242}, \frac{14}{121}, -\frac{49}{242}, \frac{35}{121})$ $+ \frac{7}{121}\sqrt{131}e^2 \otimes e_4 + \frac{7}{121}\sqrt{95}e^3 \otimes e_5$	{256, 458}
942:29	$0, 0, 0, 0, 0, \frac{3}{68}\sqrt{82}e^{12}, \frac{3}{68}\sqrt{10}e^{14} + \frac{3}{68}\sqrt{58}e^{23}, \frac{9}{68}\sqrt{14}e^{16},$ $\frac{3}{68}\sqrt{74}e^{26} + \frac{3}{34}\sqrt{26}e^{35}$	$(\frac{3}{17}, 0, -\frac{3}{17}, -\frac{6}{17}, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17})$ $+ \frac{3}{34}\sqrt{62}e^1 \otimes e_4 + \frac{3}{68}\sqrt{230}e^5 \otimes e_7$	{1278, 3479}
942:29	$0, 0, 0, 0, 0, \frac{2}{2745}\sqrt{64218}e^{12}, \frac{22}{2745}\sqrt{9174}e^{14} + \frac{2}{2745}\sqrt{157487}e^{23},$ $\frac{4}{2745}\sqrt{272162}e^{16}, \frac{2}{915}\sqrt{19877}e^{26} + \frac{2}{2745}\sqrt{365431}e^{35}$	$(-\frac{899}{2745}, \frac{253}{915}, \frac{361}{2745}, \frac{673}{915}, \frac{86}{915}, -\frac{28}{549}, \frac{224}{549}, -\frac{1039}{2745}, \frac{619}{2745})$ $+ \frac{4}{2745}\sqrt{859298}e^4 \otimes e_8$	{124569, 15789, 23457, 3568}
942:29	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{1}{5}\sqrt{6}e^{14} + \frac{1}{5}\sqrt{2}e^{23}, \frac{1}{5}\sqrt{2}e^{16},$ $\frac{1}{5}\sqrt{2}e^{26} + \frac{2}{5}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{2}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{5}\sqrt{10}e^5 \otimes e_7 + \frac{2}{5}\sqrt{2}e^4 \otimes e_8$	{13789, 247}
942:29	$0, 0, 0, 0, 0, \frac{3}{202}\sqrt{65}e^{12}, \frac{3}{202}\sqrt{399}e^{14} + \frac{3}{202}\sqrt{145}e^{23}, \frac{3}{202}\sqrt{179}e^{16},$ $\frac{3}{202}\sqrt{197}e^{26} + \frac{9}{101}\sqrt{7}e^{35}$	$(-\frac{12}{101}, \frac{9}{101}, -\frac{6}{101}, \frac{15}{101}, \frac{12}{101}, -\frac{3}{101}, \frac{3}{101}, -\frac{15}{101}, \frac{6}{101})$ $+ \frac{3}{101}\sqrt{115}e^4 \otimes e_9 + \frac{51}{202}e^5 \otimes e_7$	{1345, 2589}
942:29	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{49062}e^{12}, \frac{26}{541}\sqrt{170}e^{14} + \frac{2}{541}\sqrt{1105}e^{23},$ $\frac{4}{541}\sqrt{13702}e^{16}, \frac{2}{541}\sqrt{16133}e^{26} + \frac{34}{541}\sqrt{39}e^{35}$	$(\frac{201}{541}, -\frac{69}{541}, \frac{29}{541}, -\frac{241}{541}, \frac{34}{541}, \frac{132}{541}, -\frac{40}{541}, \frac{333}{541}, \frac{63}{541})$ $+ \frac{4}{541}\sqrt{25194}e^1 \otimes e_4$	{12358, 16, 234689, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:29	$0, 0, 0, 0, 0, \frac{3}{202}\sqrt{65}e^{12}, \frac{3}{202}\sqrt{61}e^{14} + \frac{9}{202}\sqrt{35}e^{23}, \frac{3}{202}\sqrt{281}e^{16},$ $\frac{3}{202}\sqrt{263}e^{26} + \frac{9}{101}\sqrt{7}e^{35}$	$(-\frac{12}{101}, \frac{9}{101}, -\frac{6}{101}, \frac{15}{101}, \frac{12}{101}, -\frac{3}{101}, \frac{3}{101}, -\frac{15}{101}, \frac{6}{101})$ $+ \frac{3}{101}\sqrt{115}e^3 \otimes e_8 + \frac{51}{202}e^5 \otimes e_7$	{1589, 2345}
942:29	$0, 0, 0, 0, 0, \frac{3}{161}\sqrt{394}e^{12}, \frac{2}{161}\sqrt{1970}e^{14} + \frac{1}{161}\sqrt{28762}e^{23}, \frac{2}{161}\sqrt{2167}e^{16},$ $\frac{2}{161}\sqrt{1970}e^{26} + \frac{3}{161}\sqrt{394}e^{35}$	$(\frac{33}{161}, -\frac{18}{161}, \frac{97}{161}, \frac{2}{7}, -\frac{100}{161}, \frac{15}{161}, \frac{79}{161}, \frac{48}{161}, -\frac{3}{161})$ $+ \frac{3}{161}\sqrt{5910}e^3 \otimes e_5$	{234, 257, 3678, 4568}
942:29	$0, 0, 0, 0, 0, \frac{134}{2295}\sqrt{22}e^{12}, \frac{67}{2295}\sqrt{114}e^{14} + \frac{469}{6885}\sqrt{58}e^{23},$ $\frac{134}{6885}\sqrt{683}e^{16}, \frac{67}{6885}\sqrt{1362}e^{26} + \frac{134}{6885}e^{35}$	$(-\frac{737}{6885}, \frac{134}{2295}, \frac{134}{405}, \frac{67}{135}, -\frac{737}{2295}, -\frac{67}{1377}, \frac{536}{1377}, -\frac{1072}{6885}, \frac{67}{6885})$ $+ \frac{268}{6885}\sqrt{398}e^4 \otimes e_8 + \frac{67}{6885}\sqrt{5910}e^3 \otimes e_5$	{123469, 13789}
942:29	$0, 0, 0, 0, 0, \frac{231}{2669}\sqrt{2}e^{12}, \frac{132}{2669}\sqrt{194}e^{14} + \frac{33}{2669}\sqrt{2198}e^{23},$ $\frac{66}{2669}\sqrt{417}e^{16}, \frac{132}{2669}\sqrt{157}e^{26} + \frac{33}{2669}\sqrt{1678}e^{35}$	$(-\frac{363}{2669}, \frac{198}{2669}, \frac{33}{157}, \frac{66}{157}, -\frac{528}{2669}, -\frac{165}{2669}, \frac{759}{2669}, -\frac{528}{2669}, \frac{33}{2669})$ $+ \frac{264}{2669}\sqrt{74}e^4 \otimes e_9 + \frac{33}{2669}\sqrt{10}e^3 \otimes e_5$	{12468, 1345}
942:29	$0, 0, 0, 0, 0, \frac{19}{231}\sqrt{34}e^{12}, \frac{190}{693}\sqrt{3}e^{14} + \frac{19}{2079}\sqrt{2442}e^{23},$ $\frac{38}{2079}\sqrt{1047}e^{16}, \frac{38}{2079}\sqrt{465}e^{26} + \frac{19}{693}\sqrt{26}e^{35}$	$(\frac{19}{63}, -\frac{38}{231}, \frac{19}{77}, -\frac{152}{693}, -\frac{190}{693}, \frac{95}{693}, \frac{19}{304}, \frac{304}{693}, -\frac{19}{693})$ $+ \frac{152}{2079}\sqrt{105}e^1 \otimes e_4 + \frac{19}{2079}\sqrt{4470}e^3 \otimes e_5$	{234689, 459}
942:29	$0, 0, 0, 0, 0, \frac{34}{541}\sqrt{39}e^{12}, \frac{2}{541}\sqrt{16133}e^{14} + \frac{2}{541}\sqrt{1105}e^{23},$ $\frac{4}{541}\sqrt{13702}e^{16}, \frac{26}{541}\sqrt{170}e^{26} + \frac{2}{541}\sqrt{49062}e^{35}$	$(-\frac{141}{541}, \frac{159}{541}, \frac{142}{541}, \frac{158}{541}, \frac{319}{541}, \frac{18}{541}, \frac{17}{541}, -\frac{123}{541}, \frac{177}{541})$ $+ \frac{4}{541}\sqrt{25194}e^5 \otimes e_8$	{12478, 134567, 234689, 459}
942:29	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{365}e^{12}, \frac{4}{169}\sqrt{949}e^{14} + \frac{2}{169}\sqrt{2555}e^{23}, \frac{2}{169}\sqrt{146}e^{16},$ $\frac{2}{169}\sqrt{1387}e^{26} + \frac{2}{169}\sqrt{3723}e^{35}$	$(-\frac{3}{169}, \frac{31}{169}, -\frac{59}{169}, -\frac{25}{169}, \frac{118}{169}, \frac{28}{169}, -\frac{28}{169}, \frac{25}{169}, \frac{59}{169})$ $+ \frac{2}{169}\sqrt{10366}e^5 \otimes e_7$	{1379, 1459, 2358, 2478}
942:29	$0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3}e^{12}, \frac{184}{2593}\sqrt{94}e^{14} + \frac{46}{2593}\sqrt{1063}e^{23},$ $\frac{92}{2593}\sqrt{202}e^{16}, \frac{46}{2593}\sqrt{1217}e^{26} + \frac{46}{2593}\sqrt{813}e^{35}$	$(-\frac{351}{2593}, \frac{191}{2593}, \frac{547}{2593}, \frac{1089}{2593}, -\frac{516}{2593}, -\frac{160}{2593}, \frac{738}{2593}, -\frac{511}{2593}, \frac{31}{2593})$ $+ \frac{92}{2593}\sqrt{574}e^4 \otimes e_9$	{12468, 1345, 2589, 369}
942:29	$0, 0, 0, 0, 0, \frac{22}{653}\sqrt{58}e^{12}, \frac{220}{653}\sqrt{2}e^{14} + \frac{242}{653}e^{23}, \frac{22}{653}\sqrt{62}e^{16},$ $\frac{22}{653}\sqrt{239}e^{26} + \frac{22}{653}\sqrt{119}e^{35}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $- \frac{22}{653}\sqrt{178}e^2 \otimes e_8 + \frac{440}{653}e^4 \otimes e_9$	{12379, 156789, 234567, 478}
942:29	$0, 0, 0, 0, 0, \frac{22}{653}\sqrt{58}e^{12}, \frac{220}{653}\sqrt{2}e^{14} + \frac{242}{653}e^{23}, \frac{22}{653}\sqrt{62}e^{16},$ $\frac{22}{653}\sqrt{239}e^{26} + \frac{22}{653}\sqrt{119}e^{35}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+ \frac{22}{653}\sqrt{178}e^2 \otimes e_8 + \frac{440}{653}e^4 \otimes e_9$	{12379, 156789, 234567, 478}
942:29	$0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3}e^{12}, \frac{276}{2593}\sqrt{22}e^{14} + \frac{138}{2593}\sqrt{137}e^{23},$ $\frac{184}{2593}\sqrt{93}e^{16}, \frac{46}{2593}\sqrt{1079}e^{26} + \frac{46}{2593}\sqrt{813}e^{35}$	$(-\frac{351}{2593}, \frac{191}{2593}, \frac{547}{2593}, \frac{1089}{2593}, -\frac{516}{2593}, -\frac{160}{2593}, \frac{738}{2593}, -\frac{511}{2593}, \frac{31}{2593})$ $+ \frac{92}{2593}\sqrt{574}e^3 \otimes e_8$	{12369, 1589, 2345, 468}
942:29	$0, 0, 0, 0, 0, \frac{33}{3737}\sqrt{74}e^{12}, \frac{33}{3737}\sqrt{2642}e^{14} + \frac{33}{3737}\sqrt{2126}e^{23},$ $\frac{33}{3737}\sqrt{526}e^{16}, \frac{990}{3737}\sqrt{2}e^{26} + \frac{330}{3737}\sqrt{26}e^{35}$	$(-\frac{726}{3737}, \frac{495}{3737}, \frac{132}{3737}, \frac{1353}{3737}, \frac{132}{3737}, -\frac{231}{3737}, \frac{627}{3737}, -\frac{957}{3737}, \frac{264}{3737})$ $+ \frac{33}{3737}\sqrt{2126}e^5 \otimes e_8 + \frac{33}{3737}\sqrt{4610}e^4 \otimes e_9$	{234567, 478}
942:29	$0, 0, 0, 0, 0, \frac{26}{207}\sqrt{6}e^{12}, \frac{1}{69}\sqrt{390}e^{14} + \frac{1}{207}\sqrt{78}e^{23}, \frac{1}{69}\sqrt{858}e^{16},$ $\frac{1}{69}\sqrt{390}e^{26} + \frac{26}{207}\sqrt{6}e^{35}$	$(\frac{2}{69}, \frac{1}{23}, -\frac{4}{23}, -\frac{11}{69}, \frac{20}{69}, \frac{5}{69}, -\frac{3}{23}, \frac{7}{69}, \frac{8}{69})$ $+ \frac{1}{207}\sqrt{7410}e^1 \otimes e_4 + \frac{1}{207}\sqrt{7410}e^5 \otimes e_8$	{234689, 459}
942:30	$0, 0, 0, 0, 0, \frac{4}{2887}\sqrt{158057}e^{12}, \frac{60}{2887}\sqrt{895}e^{34},$ $\frac{4}{2887}\sqrt{42602}e^{13} + \frac{12}{2887}\sqrt{6981}e^{26}, \frac{12}{2887}\sqrt{24702}e^{16} + \frac{44}{2887}\sqrt{1074}e^{35}$	$(\frac{524}{2887}, -\frac{105}{2887}, -\frac{210}{2887}, -\frac{698}{2887}, \frac{1153}{2887}, \frac{419}{2887}, -\frac{908}{2887}, \frac{314}{2887}, \frac{943}{2887})$ $+ \frac{8}{2887}\sqrt{110085}e^1 \otimes e_7$	{123459, 1346, 2356789, 378}
942:30	$0, 0, 0, 0, 0, \frac{33}{4877}\sqrt{3578}e^{12}, \frac{1518}{4877}\sqrt{2}e^{34},$ $\frac{99}{4877}\sqrt{310}e^{13} + \frac{66}{4877}\sqrt{877}e^{26}, \frac{33}{4877}\sqrt{210}e^{16} + \frac{66}{4877}\sqrt{38}e^{35}$	$(\frac{99}{4877}, \frac{429}{4877}, \frac{858}{4877}, -\frac{1518}{4877}, -\frac{231}{4877}, \frac{528}{4877}, -\frac{660}{4877}, \frac{957}{4877}, \frac{627}{4877})$ $+ \frac{33}{4877}\sqrt{1810}e^3 \otimes e_5 + \frac{66}{4877}\sqrt{1687}e^2 \otimes e_7$	{13678, 37}
942:30	$0, 0, 0, 0, 0, \frac{20}{481}\sqrt{93}e^{12}, \frac{20}{481}\sqrt{109}e^{34}, \frac{40}{481}\sqrt{21}e^{13} + \frac{20}{481}\sqrt{51}e^{26},$ $\frac{60}{481}\sqrt{14}e^{16} + \frac{80}{481}\sqrt{3}e^{35}$	$(\frac{60}{481}, \frac{15}{481}, \frac{30}{481}, -\frac{170}{481}, \frac{105}{481}, \frac{75}{481}, -\frac{140}{481}, \frac{90}{481}, \frac{135}{481})$ $+ \frac{20}{481}\sqrt{118}e^3 \otimes e_4 + \frac{60}{481}\sqrt{34}e^1 \otimes e_7$	{2356789, 378}
942:30	$0, 0, 0, 0, 0, \frac{31}{2183}\sqrt{858}e^{12}, \frac{186}{2183}\sqrt{26}e^{34},$ $\frac{31}{2183}\sqrt{606}e^{13} + \frac{31}{2183}\sqrt{78}e^{26}, \frac{31}{2183}\sqrt{910}e^{16} + \frac{93}{2183}\sqrt{26}e^{35}$	$(\frac{403}{2183}, -\frac{186}{2183}, -\frac{372}{2183}, -\frac{186}{2183}, \frac{992}{2183}, \frac{217}{2183}, -\frac{558}{2183}, \frac{31}{2183}, \frac{620}{2183})$ $+ \frac{31}{2183}\sqrt{1186}e^5 \otimes e_8 + \frac{62}{2183}\sqrt{654}e^1 \otimes e_7$	{1289, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:30	$0, 0, 0, 0, 0, \frac{2}{593}\sqrt{21995e^{13}} + \frac{4}{593}\sqrt{5810e^{26}} + \frac{6}{593}\sqrt{166e^{16}} + \frac{6}{593}\sqrt{166e^{35}}$	$(\frac{48}{593}, \frac{27}{593}, \frac{54}{593}, -\frac{193}{593}, \frac{69}{593}, \frac{75}{593}, -\frac{139}{593}, \frac{102}{593}, \frac{123}{593})$ $+ \frac{2}{593}\sqrt{41998e^2} \otimes e_7$	{123489, 135678, 23469, 357}
942:30	$0, 0, 0, 0, 0, \frac{516}{4229}\sqrt{2e^{13}} + \frac{86}{4229}\sqrt{402e^{26}} + \frac{43}{4229}\sqrt{262e^{16}} + \frac{43}{4229}\sqrt{2562e^{35}}$	$(\frac{301}{4229}, -\frac{516}{4229}, -\frac{1032}{4229}, \frac{1935}{4229}, \frac{1118}{4229}, -\frac{215}{4229}, \frac{903}{4229}, -\frac{731}{4229}, \frac{86}{4229})$ $+ \frac{43}{4229}\sqrt{3790e^5} \otimes e_8 + \frac{86}{4229}\sqrt{915e^4} \otimes e_9$	{123789, 345}
942:30	$0, 0, 0, 0, 0, \frac{9}{212}\sqrt{35e^{12}} + \frac{9}{424}\sqrt{1202e^{34}} + \frac{63}{848}\sqrt{10e^{13}} + \frac{9}{424}\sqrt{26e^{26}}$	$(\frac{45}{424}, -\frac{81}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{261}{848}, \frac{9}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{99}{848})$ $- \frac{9}{848}\sqrt{1222e^4} \otimes e_8 + \frac{9}{848}\sqrt{1830e^1} \otimes e_7$	{1289, 1568, 24679, 457}
942:30	$0, 0, 0, 0, 0, \frac{9}{212}\sqrt{35e^{12}} + \frac{9}{424}\sqrt{1202e^{34}} + \frac{63}{848}\sqrt{10e^{13}} + \frac{9}{424}\sqrt{26e^{26}}$	$(\frac{45}{424}, -\frac{81}{848}, -\frac{81}{424}, \frac{45}{424}, \frac{261}{848}, \frac{9}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{99}{848})$ $+ \frac{9}{848}\sqrt{1222e^4} \otimes e_8 + \frac{9}{848}\sqrt{1830e^1} \otimes e_7$	{1289, 1568, 24679, 457}
942:30	$0, 0, 0, 0, 0, \frac{51}{9029}\sqrt{5330e^{13}} + \frac{102}{9029}\sqrt{499e^{26}} + \frac{51}{9029}\sqrt{1090e^{16}} + \frac{204}{9029}\sqrt{166e^{35}}$	$(-\frac{765}{9029}, \frac{357}{9029}, \frac{714}{9029}, \frac{2550}{9029}, -\frac{1887}{9029}, -\frac{408}{9029}, \frac{3264}{9029}, -\frac{51}{9029}, -\frac{1173}{9029})$ $+ \frac{102}{9029}\sqrt{2207e^4} \otimes e_8 + \frac{153}{9029}\sqrt{870e^3} \otimes e_5$	{134, 3678}
942:30	$0, 0, 0, 0, 0, \frac{4}{2623}\sqrt{331662e^{13}} + \frac{4}{2623}\sqrt{16881e^{26}} + \frac{36}{2623}\sqrt{1986e^{16}} + \frac{4}{2623}\sqrt{287970e^{35}}$	$(\frac{60}{2623}, \frac{627}{2623}, \frac{1254}{2623}, -\frac{1394}{2623}, -\frac{507}{2623}, \frac{687}{2623}, -\frac{140}{2623}, \frac{1314}{2623}, \frac{747}{2623})$ $+ \frac{8}{2623}\sqrt{187015e^3} \otimes e_4$	{1245689, 148, 2459, 46}
942:30	$0, 0, 0, 0, 0, \frac{2}{1361}\sqrt{326562e^{13}} + \frac{1}{1361}\sqrt{244186e^{26}} + \frac{1}{1361}\sqrt{61782e^{16}} + \frac{4}{1361}\sqrt{38246e^{35}}$	$(-\frac{173}{1361}, \frac{375}{1361}, \frac{750}{1361}, -\frac{159}{1361}, -\frac{721}{1361}, \frac{202}{1361}, \frac{591}{1361}, \frac{577}{1361}, \frac{29}{1361})$ $+ \frac{1}{1361}\sqrt{3368590e^3} \otimes e_5$	{1245678, 12568, 2457, 25}
942:30	$0, 0, 0, 0, 0, \frac{4}{2933}\sqrt{113883e^{13}} + \frac{4}{2933}\sqrt{156774e^{26}} + \frac{12}{2933}\sqrt{1479e^{16}} + \frac{4}{2933}\sqrt{340170e^{35}}$	$(\frac{860}{2933}, -\frac{293}{2933}, -\frac{586}{2933}, -\frac{359}{2933}, \frac{2013}{2933}, \frac{81}{419}, -\frac{135}{2933}, \frac{274}{2933}, \frac{1427}{2933})$ $+ \frac{2}{2933}\sqrt{3534810e^5} \otimes e_7$	{123458, 136789, 23456, 379}
942:30	$0, 0, 0, 0, 0, \frac{3}{1441}\sqrt{3190e^{13}} + \frac{6}{1441}\sqrt{1495e^{26}} + \frac{6}{1441}\sqrt{85e^{16}} + \frac{6}{1441}\sqrt{85e^{35}}$	$(\frac{63}{1441}, -\frac{51}{1441}, -\frac{102}{1441}, \frac{6}{1441}, \frac{177}{1441}, \frac{12}{1441}, -\frac{96}{1441}, -\frac{39}{1441}, \frac{75}{1441})$ $+ \frac{3}{1441}\sqrt{4610e^4} \otimes e_8 + \frac{9}{1441}\sqrt{930e^2} \otimes e_7$	{1356789, 2346}
942:30	$0, 0, 0, 0, 0, \frac{1}{1361}\sqrt{671898e^{13}} + \frac{1}{1361}\sqrt{933522e^{26}} + \frac{1}{1361}\sqrt{774962e^{16}} + \frac{3}{1361}\sqrt{120902e^{35}}$	$(\frac{289}{1361}, -\frac{234}{1361}, -\frac{468}{1361}, \frac{420}{1361}, \frac{812}{1361}, \frac{55}{1361}, -\frac{48}{1361}, -\frac{179}{1361}, \frac{344}{1361})$ $+ \frac{5}{1361}\sqrt{93154e^5} \otimes e_8$	{13457, 135, 234789, 2389}
942:30	$0, 0, 0, 0, 0, \frac{12}{571}\sqrt{35e^{12}} + \frac{156}{571}\sqrt{7e^{34}} + \frac{12}{571}\sqrt{770e^{13}} + \frac{156}{571}\sqrt{7e^{26}}$	$(\frac{36}{571}, -\frac{69}{571}, -\frac{138}{571}, \frac{402}{571}, \frac{141}{571}, -\frac{33}{571}, \frac{264}{571}, -\frac{102}{571}, \frac{3}{571})$ $+ \frac{168}{571}\sqrt{17e^4} \otimes e_8$	{1234569, 134, 235789, 3678}
942:30	$0, 0, 0, 0, 0, \frac{53}{6341}\sqrt{78e^{13}} + \frac{106}{6341}\sqrt{55e^{26}} + \frac{53}{6341}\sqrt{2814e^{16}} + \frac{106}{6341}\sqrt{142e^{35}}$	$(-\frac{689}{6341}, \frac{477}{6341}, \frac{954}{6341}, \frac{1908}{6341}, -\frac{1855}{6341}, -\frac{212}{6341}, \frac{2862}{6341}, \frac{665}{6341}, -\frac{53}{373})$ $+ \frac{106}{6341}\sqrt{1659e^4} \otimes e_9 + \frac{53}{6341}\sqrt{4594e^3} \otimes e_5$	{1259, 25689}
942:30	$0, 0, 0, 0, 0, \frac{66}{8621}\sqrt{1541e^{13}} + \frac{198}{8621}\sqrt{79e^{26}} + \frac{33}{8621}\sqrt{4970e^{16}} + \frac{33}{8621}\sqrt{6690e^{35}}$	$(\frac{693}{8621}, -\frac{132}{8621}, -\frac{264}{8621}, -\frac{1353}{8621}, \frac{1518}{8621}, \frac{561}{8621}, -\frac{1617}{8621}, \frac{429}{8621}, \frac{1254}{8621})$ $+ \frac{33}{8621}\sqrt{8938e^5} \otimes e_8 + \frac{66}{8621}\sqrt{1879e^3} \otimes e_4$	{135, 2389}
942:30	$0, 0, 0, 0, 0, \frac{22}{1191}\sqrt{355e^{13}} + \frac{22}{1191}\sqrt{158e^{12}} + \frac{22}{1191}\sqrt{82e^{26}} + \frac{44}{1191}\sqrt{57e^{16}} + \frac{22}{1191}\sqrt{415e^{34}} + \frac{22}{1191}\sqrt{301e^{35}}$	$(\frac{88}{1191}, -\frac{121}{1191}, -\frac{242}{1191}, \frac{99}{397}, \frac{99}{397}, -\frac{11}{397}, \frac{55}{1191}, -\frac{154}{1191}, \frac{55}{1191})$ $+ \frac{22}{1191}\sqrt{479e^5} \otimes e_7 + \frac{22}{1191}\sqrt{593e^4} \otimes e_9$	{123789, 134568, 23679, 345}
942:30	$0, 0, 0, 0, 0, \frac{22}{1191}\sqrt{355e^{13}} + \frac{22}{1191}\sqrt{158e^{12}} + \frac{22}{1191}\sqrt{82e^{26}} + \frac{44}{1191}\sqrt{57e^{16}} + \frac{22}{1191}\sqrt{415e^{34}} + \frac{22}{1191}\sqrt{301e^{35}}$	$(\frac{88}{1191}, -\frac{121}{1191}, -\frac{242}{1191}, \frac{99}{397}, \frac{99}{397}, -\frac{11}{397}, \frac{55}{1191}, -\frac{154}{1191}, \frac{55}{1191})$ $- \frac{22}{1191}\sqrt{479e^5} \otimes e_7 + \frac{22}{1191}\sqrt{593e^4} \otimes e_9$	{123789, 134568, 23679, 345}
942:30	$0, 0, 0, 0, 0, \frac{59}{6881}\sqrt{1218e^{13}} + \frac{59}{6881}\sqrt{606e^{26}} + \frac{177}{6881}\sqrt{186e^{16}} + \frac{236}{6881}\sqrt{285e^{35}}$	$(\frac{885}{6881}, \frac{354}{6881}, \frac{708}{6881}, -\frac{2773}{6881}, \frac{1416}{6881}, \frac{177}{983}, -\frac{295}{983}, \frac{1593}{6881}, \frac{2124}{6881})$ $+ \frac{177}{6881}\sqrt{670e^5} \otimes e_7 + \frac{59}{983}\sqrt{130e^3} \otimes e_4$	{12478, 2467}
942:30	$0, 0, 0, 0, 0, \frac{7}{1585}\sqrt{3210e^{13}} + \frac{28}{1585}\sqrt{130e^{26}} + \frac{7}{317}\sqrt{174e^{16}} + \frac{196}{1585}\sqrt{5e^{35}}$	$(\frac{7}{317}, \frac{21}{317}, \frac{42}{317}, -\frac{84}{317}, -\frac{7}{317}, \frac{28}{317}, -\frac{42}{317}, \frac{49}{317}, \frac{35}{317})$ $+ \frac{14}{1585}\sqrt{2235e^1} \otimes e_7 + \frac{7}{1585}\sqrt{5590e^3} \otimes e_5$	{1346, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:30	$0, 0, 0, 0, 0, \frac{14}{197}\sqrt{62}e^{12}, \frac{7}{197}\sqrt{254}e^{34}, \frac{14}{197}\sqrt{65}e^{13} + \frac{14}{197}\sqrt{59}e^{26}, \frac{42}{197}e^{16} + \frac{21}{197}\sqrt{2}e^{35}$	$(\frac{21}{197}, 0, 0, -\frac{49}{197}, \frac{42}{197}, \frac{21}{197}, -\frac{49}{197}, \frac{21}{197}, \frac{42}{197}) + \frac{21}{197}\sqrt{10}e^3 \otimes e_4 + \frac{7}{197}\sqrt{418}e^2 \otimes e_7$	{1234589, 234569}
942:30	$0, 0, 0, 0, 0, \frac{23}{7661}\sqrt{3558}e^{12}, \frac{46}{7661}\sqrt{1490}e^{34}, \frac{23}{7661}\sqrt{1498}e^{13} + \frac{23}{7661}\sqrt{1122}e^{26}, \frac{23}{7661}\sqrt{6334}e^{16} + \frac{46}{7661}\sqrt{265}e^{35}$	$(\frac{391}{7661}, -\frac{483}{7661}, -\frac{966}{7661}, \frac{828}{7661}, \frac{1265}{7661}, -\frac{92}{7661}, -\frac{138}{7661}, -\frac{575}{7661}, \frac{299}{7661}) + \frac{23}{7661}\sqrt{6146}e^4 \otimes e_9 + \frac{23}{7661}\sqrt{7706}e^1 \otimes e_7$	{129, 4578}
942:30	$0, 0, 0, 0, 0, \frac{54}{3797}\sqrt{622}e^{12}, \frac{27}{3797}\sqrt{2138}e^{34}, \frac{54}{3797}\sqrt{465}e^{13} + \frac{378}{3797}\sqrt{17}e^{26}, \frac{27}{3797}\sqrt{542}e^{16} + \frac{135}{3797}\sqrt{42}e^{35}$	$(\frac{405}{3797}, -\frac{108}{3797}, \frac{216}{3797}, -\frac{621}{3797}, \frac{918}{3797}, \frac{297}{3797}, -\frac{837}{3797}, \frac{189}{3797}, \frac{702}{3797}) + \frac{27}{3797}\sqrt{1990}e^5 \otimes e_8 + \frac{54}{3797}\sqrt{1177}e^2 \otimes e_7$	{136789, 23456}
942:30	$0, 0, 0, 0, 0, \frac{12}{2957}\sqrt{14518}e^{12}, \frac{12}{2957}\sqrt{33082}e^{34}, \frac{6}{2957}\sqrt{113883}e^{13} + \frac{12}{2957}\sqrt{3927}e^{26}, \frac{12}{2957}\sqrt{31773}e^{16} + \frac{102}{2957}\sqrt{238}e^{35}$	$(-\frac{92}{2957}, -\frac{113}{2957}, -\frac{226}{2957}, \frac{1845}{2957}, -\frac{71}{2957}, -\frac{205}{2957}, \frac{1619}{2957}, -\frac{318}{2957}, -\frac{297}{2957}) + \frac{210}{2957}\sqrt{238}e^4 \otimes e_9$	{123789, 134568, 23679, 345}
942:31	$0, 0, 0, 0, 0, \frac{13}{1151}\sqrt{805}e^{12}, \frac{26}{1151}\sqrt{273}e^{34}, \frac{13}{1151}\sqrt{159}e^{16}, \frac{143}{1151}\sqrt{5}e^{13} + \frac{65}{1151}\sqrt{35}e^{26} + \frac{39}{1151}\sqrt{41}e^{45}$	$(-\frac{52}{1151}, \frac{65}{1151}, \frac{130}{1151}, -\frac{234}{1151}, \frac{312}{1151}, \frac{13}{1151}, -\frac{104}{1151}, -\frac{39}{1151}, \frac{78}{1151}) + \frac{13}{1151}\sqrt{1555}e^2 \otimes e_7 + \frac{26}{1151}\sqrt{123}e^3 \otimes e_8$	{13679, 357}
942:31	$0, 0, 0, 0, 0, \frac{122}{8709}\sqrt{65}e^{12}, \frac{61}{8709}\sqrt{6018}e^{34}, \frac{61}{8709}\sqrt{3326}e^{16}, \frac{61}{8709}\sqrt{1010}e^{13} + \frac{610}{8709}\sqrt{3}e^{26} + \frac{61}{8709}\sqrt{1646}e^{45}$	$(-\frac{1403}{8709}, \frac{305}{8709}, \frac{610}{8709}, \frac{2074}{8709}, -\frac{549}{8709}, -\frac{488}{8709}, \frac{3904}{8709}, -\frac{1891}{8709}, \frac{427}{8709}) + \frac{61}{8709}\sqrt{6730}e^4 \otimes e_5 + \frac{61}{8709}\sqrt{8898}e^3 \otimes e_8$	{1346, 13567}
942:31	$0, 0, 0, 0, 0, \frac{12}{571}\sqrt{35}e^{12}, \frac{156}{571}\sqrt{7}e^{34}, \frac{156}{571}\sqrt{7}e^{16}, \frac{12}{571}\sqrt{770}e^{13} + \frac{12}{571}\sqrt{322}e^{26} + \frac{12}{571}\sqrt{322}e^{45}$	$(-\frac{179}{571}, \frac{146}{571}, \frac{292}{571}, -\frac{28}{571}, \frac{141}{571}, -\frac{33}{571}, \frac{264}{571}, -\frac{212}{571}, \frac{113}{571}) + \frac{168}{571}\sqrt{17}e^3 \otimes e_8$	{145789, 189, 4678, 568}
942:31	$0, 0, 0, 0, 0, \frac{16}{183}\sqrt{22}e^{12}, \frac{8}{183}\sqrt{165}e^{34}, \frac{4}{183}\sqrt{1001}e^{16}, \frac{8}{183}\sqrt{187}e^{13} + \frac{44}{183}\sqrt{2}e^{26} + \frac{4}{183}\sqrt{781}e^{45}$	$(-\frac{9}{61}, \frac{6}{61}, \frac{12}{61}, \frac{52}{183}, -\frac{43}{183}, -\frac{3}{61}, \frac{88}{183}, -\frac{12}{61}, \frac{3}{61}) + \frac{4}{183}\sqrt{1705}e^4 \otimes e_8$	{128, 14567, 25689, 479}
942:31	$0, 0, 0, 0, 0, \frac{1}{301}\sqrt{36278}e^{12}, \frac{34}{301}\sqrt{33}e^{34}, \frac{34}{301}\sqrt{33}e^{16}, \frac{2}{301}\sqrt{935}e^{13} + \frac{1}{301}\sqrt{5610}e^{26} + \frac{1}{301}\sqrt{5610}e^{45}$	$(\frac{92}{301}, -\frac{30}{301}, -\frac{60}{301}, \frac{5}{301}, \frac{67}{301}, \frac{62}{301}, -\frac{95}{301}, \frac{22}{301}, \frac{32}{301}) + \frac{1}{301}\sqrt{93126}e^1 \otimes e_7$	{12348, 1346, 236789, 379}
942:31	$0, 0, 0, 0, 0, \frac{39}{6463}\sqrt{2882}e^{12}, \frac{78}{6463}\sqrt{502}e^{34}, \frac{156}{6463}\sqrt{331}e^{16}, \frac{780}{6463}\sqrt{3}e^{13} + \frac{39}{6463}\sqrt{1762}e^{26} + \frac{39}{6463}\sqrt{2622}e^{45}$	$(\frac{234}{6463}, \frac{156}{6463}, \frac{312}{6463}, -\frac{1599}{6463}, \frac{2145}{6463}, \frac{390}{6463}, -\frac{1287}{6463}, \frac{624}{6463}, \frac{546}{6463}) + \frac{39}{6463}\sqrt{6014}e^1 \otimes e_7 + \frac{78}{6463}\sqrt{1370}e^5 \otimes e_8$	{128, 246789}
942:31	$0, 0, 0, 0, 0, \frac{50}{1921}\sqrt{29}e^{12}, \frac{25}{1921}\sqrt{246}e^{34}, \frac{25}{1921}\sqrt{246}e^{16}, \frac{5}{1921}\sqrt{2490}e^{13} + \frac{5}{1921}\sqrt{1730}e^{26} + \frac{5}{1921}\sqrt{1730}e^{45}$	$(-\frac{35}{1921}, \frac{55}{1921}, \frac{110}{1921}, -\frac{270}{1921}, \frac{345}{1921}, \frac{20}{1921}, -\frac{160}{1921}, -\frac{15}{1921}, \frac{75}{1921}) + \frac{10}{1921}\sqrt{2005}e^3 \otimes e_8 + \frac{5}{1921}\sqrt{9470}e^1 \otimes e_7$	{1346, 379}
942:31	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{26623}e^{12}, \frac{3}{359}\sqrt{3318}e^{34}, \frac{1}{359}\sqrt{237}e^{16}, \frac{1}{359}\sqrt{23147}e^{13} + \frac{1}{359}\sqrt{29783}e^{26} + \frac{1}{359}\sqrt{9717}e^{45}$	$(\frac{23}{359}, \frac{2}{359}, \frac{4}{359}, -\frac{81}{359}, \frac{108}{359}, \frac{25}{359}, -\frac{77}{359}, \frac{48}{359}, \frac{27}{359}) + \frac{25}{359}\sqrt{79}e^2 \otimes e_7$	{1234589, 13679, 23468, 357}
942:31	$0, 0, 0, 0, 0, \frac{8}{2817}\sqrt{23713}e^{12}, \frac{2}{2817}\sqrt{10310}e^{34}, \frac{16}{2817}\sqrt{21651}e^{16}, \frac{2}{2817}\sqrt{697987}e^{13} + \frac{2}{2817}\sqrt{554678}e^{26} + \frac{2}{2817}\sqrt{1416594}e^{45}$	$(-\frac{608}{2817}, \frac{199}{939}, \frac{398}{939}, -\frac{857}{2817}, \frac{481}{939}, -\frac{11}{2817}, \frac{337}{2817}, -\frac{619}{2817}, \frac{586}{2817}) + \frac{2}{2817}\sqrt{2464090}e^5 \otimes e_8$	{1278, 1456, 24689, 579}
942:31	$0, 0, 0, 0, 0, \frac{7}{2041}\sqrt{1471}e^{12}, \frac{7}{2041}\sqrt{2046}e^{34}, \frac{7}{2041}\sqrt{29}e^{16}, \frac{7}{2041}\sqrt{1403}e^{13} + \frac{7}{2041}\sqrt{1679}e^{26} + \frac{7}{2041}\sqrt{653}e^{45}$	$(\frac{133}{2041}, -\frac{70}{2041}, -\frac{140}{2041}, \frac{21}{2041}, -\frac{28}{2041}, \frac{63}{2041}, -\frac{119}{2041}, \frac{196}{2041}, -\frac{7}{2041}) + \frac{28}{2041}\sqrt{67}e^4 \otimes e_5 + \frac{7}{2041}\sqrt{2647}e^2 \otimes e_7$	{23468, 357}
942:31	$0, 0, 0, 0, 0, \frac{6}{509}\sqrt{1003}e^{12}, \frac{51}{509}\sqrt{22}e^{34}, \frac{51}{509}\sqrt{14}e^{16}, \frac{3}{509}\sqrt{510}e^{13} + \frac{3}{509}\sqrt{102}e^{26} + \frac{3}{509}\sqrt{1258}e^{45}$	$(\frac{117}{509}, -\frac{57}{509}, -\frac{114}{509}, \frac{78}{509}, -\frac{75}{509}, \frac{60}{509}, -\frac{36}{509}, \frac{177}{509}, \frac{3}{509}) + \frac{102}{509}\sqrt{5}e^4 \otimes e_5 + \frac{3}{509}\sqrt{9554}e^1 \otimes e_7$	{1258, 156}
942:31	$0, 0, 0, 0, 0, \frac{5}{1194}\sqrt{670}e^{12}, \frac{5}{398}\sqrt{170}e^{34}, \frac{25}{597}\sqrt{17}e^{16}, \frac{5}{597}\sqrt{397}e^{13} + \frac{5}{597}\sqrt{122}e^{26} + \frac{5}{1194}\sqrt{1774}e^{45}$	$(-\frac{15}{199}, \frac{10}{199}, \frac{20}{199}, -\frac{35}{597}, \frac{50}{597}, -\frac{5}{199}, \frac{25}{597}, -\frac{20}{199}, \frac{5}{199}) + \frac{5}{1194}\sqrt{2602}e^4 \otimes e_8 + \frac{5}{597}\sqrt{438}e^5 \otimes e_7$	{25689, 479}
942:31	$0, 0, 0, 0, 0, \frac{6}{487}\sqrt{57}e^{12}, \frac{3}{487}\sqrt{326}e^{34}, \frac{6}{487}\sqrt{105}e^{16}, \frac{18}{487}\sqrt{5}e^{13} + \frac{3}{487}\sqrt{106}e^{26} + \frac{12}{487}\sqrt{11}e^{45}$	$(\frac{18}{487}, -\frac{12}{487}, -\frac{24}{487}, \frac{33}{487}, -\frac{39}{487}, \frac{6}{487}, \frac{9}{487}, \frac{24}{487}, -\frac{6}{487}) + \frac{3}{487}\sqrt{406}e^1 \otimes e_7 + \frac{3}{487}\sqrt{470}e^4 \otimes e_8$	{128, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:31	$0, 0, 0, 0, 0, \frac{4}{2877}\sqrt{143582}e^{12}, \frac{2}{2877}\sqrt{2027658}e^{34}, \frac{2}{2877}\sqrt{395726}e^{16},$ $\frac{2}{2877}\sqrt{765187}e^{13} + \frac{34}{959}\sqrt{206}e^{26} + \frac{8}{2877}\sqrt{17510}e^{45}$	$(\frac{430}{2877}, -\frac{29}{959}, -\frac{58}{959}, \frac{1879}{2877}, -\frac{541}{959}, \frac{49}{411}, \frac{1705}{2877}, \frac{773}{2877}, \frac{256}{2877})$ $+ \frac{2}{2877}\sqrt{4079830}e^4 \otimes e_5$	{23468, 235678, 34, 357}
942:31	$0, 0, 0, 0, 0, \frac{33}{559}\sqrt{55}e^{12}, \frac{66}{559}\sqrt{15}e^{34}, \frac{33}{559}\sqrt{5}e^{16},$ $\frac{11}{559}\sqrt{443}e^{13} + \frac{55}{559}\sqrt{21}e^{26} + \frac{33}{559}\sqrt{15}e^{45}$	$(\frac{22}{559}, \frac{11}{559}, \frac{22}{559}, -\frac{132}{559}, \frac{176}{559}, \frac{33}{559}, -\frac{110}{559}, \frac{55}{559}, \frac{44}{559})$ $+ \frac{11}{559}\sqrt{901}e^2 \otimes e_7 + \frac{22}{559}\sqrt{19}e^5 \otimes e_8$	{23468, 357}
942:31	$0, 0, 0, 0, 0, \frac{4}{2933}\sqrt{152337}e^{12}, \frac{2}{2933}\sqrt{1334058}e^{34}, \frac{4}{2933}\sqrt{156774}e^{16},$ $\frac{6}{2933}\sqrt{113883}e^{13} + \frac{12}{2933}\sqrt{1479}e^{26} + \frac{4}{2933}\sqrt{340170}e^{45}$	$(\frac{400}{2933}, \frac{167}{2933}, \frac{334}{2933}, \frac{1279}{2933}, \frac{2013}{2933}, \frac{81}{419}, -\frac{135}{419}, \frac{967}{2933}, \frac{734}{2933})$ $+ \frac{2}{2933}\sqrt{3534810}e^5 \otimes e_7$	{246789, 25689, 479, 59}
942:32	$0, 0, 0, 0, 0, \frac{2}{2737}\sqrt{580318}e^{12}, \frac{2}{2737}\sqrt{1993830}e^{34},$ $\frac{2}{2737}\sqrt{928833}e^{13} + \frac{2}{2737}\sqrt{358241}e^{26}, \frac{2}{2737}\sqrt{666231}e^{16} + \frac{4}{2737}\sqrt{153995}e^{45}$	$(\frac{305}{2737}, -\frac{78}{2737}, -\frac{156}{2737}, \frac{111}{161}, -\frac{1355}{2737}, \frac{227}{2737}, \frac{1731}{2737}, \frac{149}{2737}, \frac{76}{391})$ $+ \frac{4}{2737}\sqrt{906139}e^4 \otimes e_5$	{13468, 135678, 34, 357}
942:32	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{6}e^{12}, \frac{8}{25}\sqrt{6}e^{34}, \frac{2}{25}\sqrt{102}e^{13} + \frac{4}{25}\sqrt{15}e^{26},$ $\frac{4}{25}\sqrt{29}e^{16} + \frac{6}{25}\sqrt{14}e^{45}$	$(\frac{2}{25}, 0, 0, -\frac{6}{25}, \frac{2}{5}, \frac{2}{25}, -\frac{6}{25}, \frac{2}{25}, \frac{4}{25})$ $+ \frac{2}{25}\sqrt{66}e^1 \otimes e_7 + \frac{8}{25}\sqrt{10}e^5 \otimes e_8$	{13457, 368}
942:32	$0, 0, 0, 0, 0, \frac{10}{261}\sqrt{6}e^{12}, \frac{10}{261}\sqrt{42}e^{34}, \frac{10}{261}\sqrt{43}e^{13} + \frac{10}{261}\sqrt{61}e^{26},$ $\frac{10}{261}\sqrt{57}e^{16} + \frac{20}{261}\sqrt{23}e^{45}$	$(\frac{5}{29}, -\frac{10}{87}, \frac{20}{87}, \frac{35}{261}, \frac{25}{261}, \frac{5}{87}, -\frac{25}{261}, -\frac{5}{87}, \frac{20}{87})$ $+ \frac{20}{261}\sqrt{23}e^5 \otimes e_7 + \frac{40}{87}e^4 \otimes e_8$	{1345, 3678}
942:32	$0, 0, 0, 0, 0, \frac{6}{287}\sqrt{42}e^{12}, \frac{3}{287}\sqrt{226}e^{34}, \frac{6}{287}\sqrt{30}e^{13} + \frac{12}{287}\sqrt{15}e^{26},$ $\frac{3}{287}\sqrt{26}e^{16} + \frac{12}{287}e^{45}$	$(\frac{18}{287}, -\frac{12}{287}, -\frac{24}{287}, \frac{3}{287}, \frac{3}{41}, \frac{6}{287}, -\frac{3}{41}, -\frac{6}{287}, \frac{24}{287})$ $+ \frac{3}{287}\sqrt{190}e^4 \otimes e_8 + \frac{3}{287}\sqrt{326}e^2 \otimes e_7$	{1356789, 23456}
942:32	$0, 0, 0, 0, 0, \frac{12}{233}\sqrt{7}e^{12}, \frac{4}{233}\sqrt{119}e^{34}, \frac{4}{233}\sqrt{278}e^{13} + \frac{8}{233}\sqrt{30}e^{26},$ $\frac{4}{233}\sqrt{78}e^{16} + \frac{12}{233}\sqrt{33}e^{45}$	$(-\frac{12}{233}, \frac{8}{233}, \frac{16}{233}, \frac{36}{233}, -\frac{52}{233}, -\frac{4}{233}, \frac{52}{233}, \frac{4}{233}, -\frac{16}{233})$ $+ \frac{4}{233}\sqrt{471}e^4 \otimes e_8 + \frac{8}{233}\sqrt{93}e^3 \otimes e_9$	{1345, 3678}
942:32	$0, 0, 0, 0, 0, \frac{10}{1009}\sqrt{1066}e^{12}, \frac{40}{1009}\sqrt{114}e^{34}, \frac{10}{1009}\sqrt{474}e^{13} + \frac{140}{1009}e^{26},$ $\frac{220}{1009}\sqrt{3}e^{16} + \frac{10}{1009}\sqrt{962}e^{45}$	$(\frac{170}{1009}, -\frac{120}{1009}, \frac{240}{1009}, \frac{210}{1009}, \frac{10}{1009}, \frac{50}{1009}, -\frac{30}{1009}, -\frac{70}{1009}, \frac{220}{1009})$ $+ \frac{10}{1009}\sqrt{2334}e^1 \otimes e_7 + \frac{40}{1009}\sqrt{82}e^4 \otimes e_5$	{156, 478}
942:32	$0, 0, 0, 0, 0, \frac{27}{2137}\sqrt{6}e^{12}, \frac{27}{2137}\sqrt{959}e^{34},$ $\frac{54}{2137}\sqrt{110}e^{13} + \frac{27}{2137}\sqrt{142}e^{26}, \frac{54}{2137}\sqrt{111}e^{16} + \frac{27}{2137}\sqrt{957}e^{45}$	$(-\frac{216}{2137}, \frac{297}{2137}, \frac{594}{2137}, -\frac{729}{2137}, \frac{594}{2137}, \frac{81}{2137}, -\frac{135}{2137}, \frac{378}{2137}, -\frac{135}{2137})$ $+ \frac{27}{2137}\sqrt{1687}e^5 \otimes e_7 + \frac{27}{2137}\sqrt{2129}e^3 \otimes e_9$	{13456, 1367, 3458, 378}
942:32	$0, 0, 0, 0, 0, \frac{27}{2137}\sqrt{6}e^{12}, \frac{27}{2137}\sqrt{959}e^{34},$ $\frac{54}{2137}\sqrt{110}e^{13} + \frac{27}{2137}\sqrt{142}e^{26}, \frac{54}{2137}\sqrt{111}e^{16} + \frac{27}{2137}\sqrt{957}e^{45}$	$(-\frac{216}{2137}, \frac{297}{2137}, \frac{594}{2137}, -\frac{729}{2137}, \frac{594}{2137}, \frac{81}{2137}, -\frac{135}{2137}, \frac{378}{2137}, -\frac{135}{2137})$ $- \frac{27}{2137}\sqrt{1687}e^5 \otimes e_7 + \frac{27}{2137}\sqrt{2129}e^3 \otimes e_9$	{13456, 1367, 3458, 378}
942:32	$0, 0, 0, 0, 0, \frac{42}{173}e^{12}, \frac{14}{173}\sqrt{17}e^{34}, \frac{14}{173}\sqrt{53}e^{13} + \frac{14}{173}\sqrt{57}e^{26},$ $\frac{14}{173}\sqrt{51}e^{16} + \frac{14}{173}\sqrt{69}e^{45}$	$(\frac{33}{173}, -\frac{22}{173}, -\frac{44}{173}, \frac{87}{173}, -\frac{43}{173}, \frac{11}{173}, \frac{43}{173}, -\frac{11}{173}, \frac{44}{173})$ $+ \frac{98}{173}\sqrt{3}e^4 \otimes e_8$	{123469, 1345, 235789, 3678}
942:32	$0, 0, 0, 0, 0, \frac{52}{2701}\sqrt{87}e^{12}, \frac{26}{2701}\sqrt{474}e^{34},$ $\frac{26}{2701}\sqrt{1245}e^{13} + \frac{26}{2701}\sqrt{393}e^{26}, \frac{286}{2701}\sqrt{5}e^{16} + \frac{156}{2701}\sqrt{35}e^{45}$	$(-\frac{91}{2701}, \frac{156}{2701}, \frac{312}{2701}, -\frac{585}{2701}, \frac{559}{2701}, \frac{65}{2701}, -\frac{273}{2701}, \frac{221}{2701}, -\frac{26}{2701})$ $+ \frac{26}{2701}\sqrt{1618}e^5 \otimes e_8 + \frac{546}{2701}\sqrt{2}e^3 \otimes e_9$	{13457, 368}
942:32	$0, 0, 0, 0, 0, \frac{20}{2809}\sqrt{687}e^{12}, \frac{4}{2809}\sqrt{152285}e^{34},$ $\frac{2}{2809}\sqrt{756845}e^{13} + \frac{2}{2809}\sqrt{305715}e^{26}, \frac{6}{2809}\sqrt{79005}e^{16} + \frac{4}{2809}\sqrt{158010}e^{45}$	$(-\frac{741}{2809}, \frac{808}{2809}, \frac{1616}{2809}, -\frac{603}{2809}, -\frac{71}{2809}, \frac{67}{2809}, \frac{1013}{2809}, \frac{875}{2809}, -\frac{674}{2809})$ $+ \frac{4}{2809}\sqrt{666390}e^3 \otimes e_9$	{14789, 1589, 4679, 569}
942:32	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{16402}e^{12}, \frac{2}{277}\sqrt{4602}e^{34}, \frac{2}{277}\sqrt{4130}e^{13} + \frac{16}{277}\sqrt{59}e^{26},$ $\frac{1}{277}\sqrt{3894}e^{16} + \frac{1}{277}\sqrt{6018}e^{45}$	$(\frac{4}{277}, \frac{10}{277}, \frac{20}{277}, -\frac{69}{277}, \frac{87}{277}, \frac{14}{277}, -\frac{49}{277}, \frac{24}{277}, \frac{18}{277})$ $+ \frac{1}{277}\sqrt{28438}e^2 \otimes e_7$	{1234589, 135678, 234569, 357}
942:32	$0, 0, 0, 0, 0, \frac{16}{2509}\sqrt{2670}e^{12}, \frac{4}{2509}\sqrt{98790}e^{34},$ $\frac{2}{2509}\sqrt{618105}e^{13} + \frac{2}{2509}\sqrt{335085}e^{26}, \frac{2}{2509}\sqrt{506855}e^{16} + \frac{12}{2509}\sqrt{18690}e^{45}$	$(\frac{371}{2509}, -\frac{132}{2509}, -\frac{264}{2509}, -\frac{387}{2509}, \frac{997}{2509}, \frac{239}{2509}, -\frac{651}{2509}, \frac{107}{2509}, \frac{610}{2509})$ $+ \frac{8}{2509}\sqrt{63190}e^5 \otimes e_8$	{123569, 13457, 234789, 368}
942:32	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{8}{29}\sqrt{2}e^{34}, \frac{2}{29}\sqrt{14}e^{13} + \frac{4}{29}\sqrt{3}e^{26},$ $\frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{6}{29}\sqrt{6}e^1 \otimes e_7 - \frac{8}{29}\sqrt{3}e^4 \otimes e_8$	{12589, 168, 24679, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:32	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{8}{29}\sqrt{2}e^{34}, \frac{2}{29}\sqrt{14}e^{13} + \frac{4}{29}\sqrt{3}e^{26},$ $\frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{6}{29}\sqrt{6}e^1 \otimes e_7 + \frac{8}{29}\sqrt{3}e^4 \otimes e_8$	{12589, 168, 24679, 457}
942:32	$0, 0, 0, 0, 0, \frac{36}{169}e^{12}, \frac{6}{169}\sqrt{14}e^{34}, \frac{6}{169}\sqrt{7}e^{13} + \frac{6}{169}\sqrt{59}e^{26},$ $\frac{6}{169}e^{16} + \frac{12}{169}\sqrt{13}e^{45}$	$(-\frac{9}{169}, \frac{6}{169}, \frac{12}{169}, \frac{21}{169}, -\frac{33}{169}, -\frac{3}{169}, \frac{33}{169}, \frac{3}{169}, -\frac{12}{169})$ $+\frac{12}{169}\sqrt{17}e^4 \otimes e_8 + \frac{6}{169}\sqrt{82}e^2 \otimes e_9$	{12378, 1356789, 23456, 349}
942:32	$0, 0, 0, 0, 0, \frac{36}{169}e^{12}, \frac{6}{169}\sqrt{14}e^{34}, \frac{6}{169}\sqrt{7}e^{13} + \frac{6}{169}\sqrt{59}e^{26},$ $\frac{6}{169}e^{16} + \frac{12}{169}\sqrt{13}e^{45}$	$(-\frac{9}{169}, \frac{6}{169}, \frac{12}{169}, \frac{21}{169}, -\frac{33}{169}, -\frac{3}{169}, \frac{33}{169}, \frac{3}{169}, -\frac{12}{169})$ $+\frac{12}{169}\sqrt{17}e^4 \otimes e_8 - \frac{6}{169}\sqrt{82}e^2 \otimes e_9$	{12378, 1356789, 23456, 349}
942:32	$0, 0, 0, 0, 0, \frac{100}{697}\sqrt{7}e^{12}, \frac{25}{697}\sqrt{138}e^{34}, \frac{5}{697}\sqrt{2570}e^{13} + \frac{20}{697}\sqrt{155}e^{26},$ $\frac{40}{697}\sqrt{15}e^{16} + \frac{45}{697}\sqrt{10}e^{45}$	$(-\frac{35}{697}, \frac{55}{697}, \frac{110}{697}, -\frac{180}{697}, \frac{165}{697}, \frac{20}{697}, -\frac{70}{697}, \frac{75}{697}, -\frac{15}{697})$ $+\frac{10}{697}\sqrt{285}e^3 \otimes e_9 + \frac{5}{697}\sqrt{4990}e^2 \otimes e_7$	{135678, 357}
942:32	$0, 0, 0, 0, 0, \frac{2}{175}\sqrt{2706}e^{12}, \frac{8}{175}\sqrt{209}e^{34}, \frac{2}{175}\sqrt{418}e^{13} + \frac{4}{175}\sqrt{165}e^{26},$ $\frac{36}{175}\sqrt{11}e^{16} + \frac{2}{175}\sqrt{1914}e^{45}$	$(\frac{6}{25}, -\frac{4}{35}, -\frac{8}{35}, -\frac{6}{175}, \frac{2}{5}, \frac{22}{175}, -\frac{46}{175}, \frac{2}{175}, \frac{64}{175})$ $+\frac{66}{175}\sqrt{6}e^1 \otimes e_7$	{129, 156, 2456789, 478}
942:32	$0, 0, 0, 0, 0, \frac{2}{327}\sqrt{690}e^{12}, \frac{24}{109}e^{34}, \frac{2}{327}\sqrt{318}e^{13} + \frac{4}{109}\sqrt{13}e^{26},$ $\frac{44}{327}\sqrt{3}e^{16} + \frac{2}{327}\sqrt{282}e^{45}$	$(-\frac{2}{109}, \frac{4}{109}, \frac{8}{109}, -\frac{18}{109}, \frac{18}{109}, \frac{2}{109}, -\frac{10}{109}, \frac{6}{109}, 0)$ $+\frac{2}{327}\sqrt{2022}e^1 \otimes e_7 + \frac{32}{327}\sqrt{6}e^3 \otimes e_9$	{1346, 3578}
942:32	$0, 0, 0, 0, 0, \frac{2}{2817}\sqrt{397578}e^{12}, \frac{2}{2817}\sqrt{1211226}e^{34},$ $\frac{2}{2817}\sqrt{371381}e^{13} + \frac{2}{2817}\sqrt{433021}e^{26}, \frac{46}{2817}\sqrt{201}e^{16} + \frac{20}{2817}\sqrt{10787}e^{45}$	$(\frac{65}{313}, -\frac{2}{939}, -\frac{4}{939}, -\frac{953}{2817}, \frac{2117}{2817}, \frac{193}{939}, -\frac{965}{2817}, \frac{191}{939}, \frac{388}{939})$ $+\frac{4}{2817}\sqrt{879911}e^5 \otimes e_7$	{123458, 12378, 23456, 2367}
942:32	$0, 0, 0, 0, 0, \frac{9}{383}\sqrt{442}e^{12}, \frac{144}{383}\sqrt{2}e^{34}, \frac{36}{383}\sqrt{30}e^{13} + \frac{36}{383}\sqrt{23}e^{26},$ $\frac{9}{383}\sqrt{142}e^{16} + \frac{36}{383}\sqrt{210}e^{45}$	$(0, \frac{18}{383}, \frac{36}{383}, -\frac{99}{383}, \frac{117}{383}, \frac{18}{383}, -\frac{63}{383}, \frac{36}{383}, \frac{18}{383})$ $+\frac{36}{383}\sqrt{5}e^5 \otimes e_8 + \frac{9}{383}\sqrt{742}e^2 \otimes e_7$	{1234589, 135678}
942:32	$0, 0, 0, 0, 0, \frac{12}{7877}\sqrt{383}e^{12}, \frac{3}{7877}\sqrt{8582}e^{34}, \frac{9}{7877}\sqrt{770}e^{13} + \frac{222}{7877}e^{26},$ $\frac{6}{7877}\sqrt{489}e^{16} + \frac{3}{7877}\sqrt{3062}e^{45}$	$(\frac{99}{7877}, -\frac{75}{7877}, -\frac{150}{7877}, \frac{66}{7877}, \frac{57}{7877}, \frac{24}{7877}, -\frac{84}{7877}, -\frac{51}{7877}, \frac{123}{7877})$ $+\frac{30}{7877}\sqrt{43}e^4 \otimes e_5 + \frac{3}{7877}\sqrt{10102}e^2 \otimes e_7$	{135678, 357}
942:32	$0, 0, 0, 0, 0, \frac{8}{217}\sqrt{15}e^{12}, \frac{4}{217}\sqrt{78}e^{34}, \frac{2}{217}\sqrt{273}e^{13} + \frac{2}{217}\sqrt{645}e^{26},$ $\frac{2}{217}\sqrt{255}e^{16} + \frac{4}{217}\sqrt{210}e^{45}$	$(-\frac{9}{217}, \frac{12}{217}, \frac{24}{217}, -\frac{39}{217}, \frac{33}{217}, \frac{3}{217}, -\frac{15}{217}, \frac{15}{217}, -\frac{6}{217})$ $+\frac{16}{217}\sqrt{15}e^5 \otimes e_8 + \frac{2}{217}\sqrt{51}e^2 \otimes e_9$	{1278, 14689, 2456, 579}
942:32	$0, 0, 0, 0, 0, \frac{8}{217}\sqrt{15}e^{12}, \frac{4}{217}\sqrt{78}e^{34}, \frac{2}{217}\sqrt{273}e^{13} + \frac{2}{217}\sqrt{645}e^{26},$ $\frac{2}{217}\sqrt{255}e^{16} + \frac{4}{217}\sqrt{210}e^{45}$	$(-\frac{9}{217}, \frac{12}{217}, \frac{24}{217}, -\frac{39}{217}, \frac{33}{217}, \frac{3}{217}, -\frac{15}{217}, \frac{15}{217}, -\frac{6}{217})$ $+\frac{16}{217}\sqrt{15}e^5 \otimes e_8 - \frac{8}{217}\sqrt{51}e^2 \otimes e_9$	{1278, 14689, 2456, 579}
942:33	$0, 0, 0, 0, 0, \frac{10}{247}\sqrt{19}e^{12}, \frac{2}{247}\sqrt{1615}e^{34}, \frac{2}{13}\sqrt{5}e^{15} + \frac{2}{247}\sqrt{494}e^{26},$ $\frac{2}{247}\sqrt{589}e^{16} + \frac{4}{247}\sqrt{38}e^{35}$	$(-\frac{1}{13}, \frac{1}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{2}{13}, 0, 0, \frac{1}{13}, -\frac{1}{13})$ $+\frac{2}{247}\sqrt{1995}e^5 \otimes e_7 + \frac{2}{247}\sqrt{2318}e^4 \otimes e_8$	{1234569, 568}
942:33	$0, 0, 0, 0, 0, \frac{2}{653}\sqrt{46018}e^{12}, \frac{4}{653}\sqrt{9169}e^{34},$ $\frac{2}{653}\sqrt{25085}e^{15} + \frac{6}{653}\sqrt{5190}e^{26}, \frac{4}{653}\sqrt{519}e^{16} + \frac{2}{653}\sqrt{2941}e^{35}$	$(-\frac{3}{653}, \frac{117}{653}, -\frac{123}{653}, -\frac{106}{653}, \frac{234}{653}, \frac{114}{653}, -\frac{229}{653}, \frac{231}{653}, \frac{111}{653})$ $+\frac{2}{653}\sqrt{94631}e^2 \otimes e_7$	{123458, 1456789, 23456, 4579}
942:33	$0, 0, 0, 0, 0, \frac{2}{1553}\sqrt{59785}e^{12}, \frac{11}{1553}\sqrt{10870}e^{34},$ $\frac{1}{1553}\sqrt{1228310}e^{15} + \frac{1}{1553}\sqrt{823946}e^{26}, \frac{1}{1553}\sqrt{323926}e^{16} + \frac{2}{1553}\sqrt{142397}e^{35}$	$(-\frac{71}{1553}, -\frac{34}{1553}, -\frac{108}{1553}, \frac{948}{1553}, -\frac{68}{1553}, -\frac{105}{1553}, \frac{840}{1553}, -\frac{139}{1553}, -\frac{176}{1553})$ $+\frac{2}{1553}\sqrt{716333}e^4 \otimes e_8$	{1234569, 1457, 235789, 568}
942:33	$0, 0, 0, 0, 0, \frac{84}{8053}\sqrt{178}e^{12}, \frac{42}{8053}\sqrt{1558}e^{34},$ $\frac{21}{8053}\sqrt{2158}e^{15} + \frac{21}{8053}\sqrt{2314}e^{26}, \frac{42}{8053}\sqrt{1571}e^{16} + \frac{21}{8053}\sqrt{2590}e^{35}$	$(-\frac{294}{8053}, \frac{483}{8053}, -\frac{1071}{8053}, \frac{336}{8053}, \frac{966}{8053}, \frac{189}{8053}, -\frac{735}{8053}, \frac{672}{8053}, -\frac{105}{8053})$ $+\frac{21}{8053}\sqrt{9202}e^1 \otimes e_7 + \frac{42}{8053}\sqrt{1351}e^4 \otimes e_9$	{2356789, 4578}
942:33	$0, 0, 0, 0, 0, \frac{68}{2271}\sqrt{267}e^{12}, \frac{119}{757}\sqrt{6}e^{34}, \frac{34}{2271}\sqrt{705}e^{15} + \frac{170}{757}\sqrt{5}e^{26},$ $\frac{34}{757}\sqrt{19}e^{16} + \frac{119}{2271}\sqrt{42}e^{35}$	$(\frac{51}{757}, \frac{68}{757}, \frac{34}{757}, -\frac{255}{757}, \frac{136}{757}, \frac{119}{757}, -\frac{221}{757}, \frac{187}{757}, \frac{170}{757})$ $+\frac{17}{2271}\sqrt{8310}e^2 \otimes e_7 + \frac{187}{2271}\sqrt{30}e^3 \otimes e_4$	{1456789, 4579}
942:33	$0, 0, 0, 0, 0, \frac{28}{7415}\sqrt{86}e^{12}, \frac{7}{7415}\sqrt{6418}e^{34},$ $\frac{7}{7415}\sqrt{5102}e^{15} + \frac{7}{7415}\sqrt{418}e^{26}, \frac{7}{7415}\sqrt{2990}e^{16} + \frac{14}{7415}\sqrt{1106}e^{35}$	$(-\frac{119}{7415}, \frac{28}{1483}, -\frac{378}{7415}, \frac{42}{1483}, \frac{56}{1483}, \frac{21}{7415}, -\frac{168}{7415}, \frac{161}{7415}, -\frac{98}{7415})$ $+\frac{28}{1483}\sqrt{14}e^4 \otimes e_8 + \frac{42}{7415}\sqrt{222}e^1 \otimes e_7$	{123459, 2356789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:33	$0, 0, 0, 0, 0, \frac{10}{3121}\sqrt{10249}e^{12}, \frac{6}{3121}\sqrt{134345}e^{34},$ $\frac{2}{3121}\sqrt{1480565}e^{15} + \frac{4}{3121}\sqrt{26315}e^{26}, \frac{2}{3121}\sqrt{452895}e^{16} + \frac{2}{3121}\sqrt{695270}e^{35}$	$(-\frac{43}{3121}, \frac{775}{3121}, -\frac{861}{3121}, -\frac{359}{3121}, \frac{1550}{3121}, \frac{732}{3121}, -\frac{1220}{3121}, \frac{1507}{3121}, \frac{689}{3121})$ $+ \frac{2}{3121}\sqrt{3610695}e^5 \otimes e_7$	{1236789, 1478, 2379, 467}
942:33	$0, 0, 0, 0, 0, \frac{65}{2573}\sqrt{15}e^{12}, \frac{13}{2573}\sqrt{1353}e^{34},$ $\frac{13}{2573}\sqrt{1542}e^{15} + \frac{13}{2573}\sqrt{818}e^{26}, \frac{13}{2573}\sqrt{1010}e^{16} + \frac{13}{2573}\sqrt{1087}e^{35}$	$(\frac{130}{2573}, -\frac{13}{2573}, \frac{273}{2573}, -\frac{468}{2573}, -\frac{26}{2573}, \frac{117}{2573}, -\frac{195}{2573}, \frac{104}{2573}, \frac{247}{2573})$ $+ \frac{13}{2573}\sqrt{2569}e^3 \otimes e_8 + \frac{156}{2573}\sqrt{15}e^5 \otimes e_7$	{1345, 2589}
942:33	$0, 0, 0, 0, 0, \frac{27}{2137}\sqrt{6}e^{12}, \frac{81}{2137}\sqrt{131}e^{34},$ $\frac{54}{2137}\sqrt{110}e^{15} + \frac{27}{2137}\sqrt{142}e^{26}, \frac{54}{2137}\sqrt{111}e^{16} + \frac{27}{2137}\sqrt{737}e^{35}$	$(-\frac{216}{2137}, \frac{297}{2137}, -\frac{729}{2137}, \frac{594}{2137}, \frac{594}{2137}, \frac{81}{2137}, -\frac{135}{2137}, \frac{378}{2137}, -\frac{135}{2137})$ $+ \frac{27}{2137}\sqrt{1907}e^5 \otimes e_7 + \frac{27}{2137}\sqrt{1909}e^4 \otimes e_9$	{1259, 13456, 25689, 3458}
942:33	$0, 0, 0, 0, 0, \frac{27}{2137}\sqrt{6}e^{12}, \frac{81}{2137}\sqrt{131}e^{34},$ $\frac{54}{2137}\sqrt{110}e^{15} + \frac{27}{2137}\sqrt{142}e^{26}, \frac{54}{2137}\sqrt{111}e^{16} + \frac{27}{2137}\sqrt{737}e^{35}$	$(-\frac{216}{2137}, \frac{297}{2137}, -\frac{729}{2137}, \frac{594}{2137}, \frac{594}{2137}, \frac{81}{2137}, -\frac{135}{2137}, \frac{378}{2137}, -\frac{135}{2137})$ $- \frac{27}{2137}\sqrt{1907}e^5 \otimes e_7 + \frac{27}{2137}\sqrt{1909}e^4 \otimes e_9$	{1259, 13456, 25689, 3458}
942:33	$0, 0, 0, 0, 0, \frac{1}{83}\sqrt{69}e^{12}, \frac{1}{83}\sqrt{989}e^{34}, \frac{1}{83}\sqrt{230}e^{15} + \frac{1}{83}\sqrt{690}e^{26},$ $\frac{1}{83}\sqrt{46}e^{16} + \frac{1}{83}\sqrt{851}e^{35}$	$(\frac{2}{83}, -\frac{7}{83}, \frac{11}{83}, \frac{20}{83}, -\frac{14}{83}, -\frac{5}{83}, \frac{31}{83}, -\frac{12}{83}, -\frac{3}{83})$ $+ \frac{1}{83}\sqrt{1909}e^3 \otimes e_8 + \frac{8}{83}\sqrt{23}e^4 \otimes e_9$	{14678, 23679}
942:33	$0, 0, 0, 0, 0, \frac{6}{1021}\sqrt{798}e^{12}, \frac{6}{1021}\sqrt{1186}e^{34},$ $\frac{12}{1021}\sqrt{15}e^{15} + \frac{12}{1021}\sqrt{390}e^{26}, \frac{12}{1021}\sqrt{134}e^{16} + \frac{6}{1021}\sqrt{526}e^{35}$	$(\frac{54}{1021}, -\frac{6}{1021}, \frac{114}{1021}, -\frac{192}{1021}, -\frac{12}{1021}, \frac{48}{1021}, -\frac{78}{1021}, \frac{42}{1021}, \frac{102}{1021})$ $+ \frac{12}{1021}\sqrt{479}e^2 \otimes e_7 + \frac{30}{1021}\sqrt{70}e^3 \otimes e_8$	{1456789, 23456}
942:33	$0, 0, 0, 0, 0, \frac{70}{3557}\sqrt{417}e^{12}, \frac{70}{3557}\sqrt{790}e^{34},$ $\frac{35}{3557}\sqrt{2082}e^{15} + \frac{525}{3557}\sqrt{6}e^{26}, \frac{1890}{3557}e^{16} + \frac{105}{3557}\sqrt{266}e^{35}$	$(\frac{210}{3557}, \frac{315}{3557}, \frac{105}{3557}, -\frac{1120}{3557}, \frac{630}{3557}, \frac{525}{3557}, -\frac{1015}{3557}, \frac{840}{3557}, \frac{735}{3557})$ $+ \frac{105}{3557}\sqrt{682}e^1 \otimes e_7 + \frac{70}{3557}\sqrt{7}e^3 \otimes e_4$	{2356789, 4578}
942:33	$0, 0, 0, 0, 0, \frac{41}{7753}\sqrt{4342}e^{12}, \frac{41}{7753}\sqrt{4722}e^{34},$ $\frac{615}{7753}\sqrt{14}e^{15} + \frac{41}{7753}\sqrt{3730}e^{26}, \frac{246}{7753}\sqrt{51}e^{16} + \frac{82}{7753}\sqrt{335}e^{35}$	$(-\frac{615}{7753}, \frac{902}{7753}, -\frac{2132}{7753}, \frac{1353}{7753}, \frac{1804}{7753}, \frac{287}{7753}, -\frac{779}{7753}, \frac{1189}{7753}, -\frac{328}{7753})$ $+ \frac{41}{7753}\sqrt{5630}e^4 \otimes e_9 + \frac{41}{7753}\sqrt{8078}e^2 \otimes e_7$	{12589, 2569}
942:33	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{7}{317}\sqrt{237}e^{34}, \frac{7}{317}\sqrt{174}e^{15} + \frac{7}{317}\sqrt{2}e^{26},$ $\frac{7}{317}\sqrt{106}e^{16} + \frac{7}{317}\sqrt{77}e^{35}$	$(\frac{28}{317}, -\frac{7}{317}, \frac{63}{317}, -\frac{84}{317}, -\frac{14}{317}, \frac{21}{317}, -\frac{21}{317}, \frac{14}{317}, \frac{49}{317})$ $+ \frac{14}{317}\sqrt{87}e^1 \otimes e_7 + \frac{7}{317}\sqrt{217}e^3 \otimes e_8$	{1289, 37}
942:33	$0, 0, 0, 0, 0, \frac{2}{3237}\sqrt{489647}e^{12}, \frac{8}{3237}\sqrt{77165}e^{34},$ $\frac{2}{3237}\sqrt{658007}e^{15} + \frac{4}{3237}\sqrt{1403}e^{26}, \frac{46}{1079}\sqrt{305}e^{16} + \frac{2}{3237}\sqrt{837591}e^{35}$	$(-\frac{337}{3237}, \frac{75}{1079}, -\frac{899}{3237}, \frac{2357}{3237}, \frac{150}{1079}, -\frac{112}{3237}, \frac{486}{1079}, \frac{113}{3237}, -\frac{449}{3237})$ $+ \frac{2}{3237}\sqrt{3730577}e^4 \otimes e_9$	{12589, 134568, 2569, 345}
942:33	$0, 0, 0, 0, 0, \frac{28}{1565}\sqrt{506}e^{12}, \frac{7}{1565}\sqrt{15378}e^{34},$ $\frac{7}{1565}\sqrt{10142}e^{15} + \frac{7}{1565}\sqrt{6578}e^{26}, \frac{7}{1565}\sqrt{14190}e^{16} + \frac{14}{1565}\sqrt{2926}e^{35}$	$(\frac{91}{1565}, \frac{28}{313}, \frac{42}{1565}, -\frac{98}{313}, \frac{56}{313}, \frac{231}{1565}, -\frac{448}{1565}, \frac{371}{1565}, \frac{322}{1565})$ $+ \frac{14}{1565}\sqrt{7458}e^1 \otimes e_7$	{123459, 156, 2356789, 4578}
942:33	$0, 0, 0, 0, 0, \frac{27}{8117}\sqrt{2858}e^{12}, \frac{54}{8117}\sqrt{1463}e^{34},$ $\frac{27}{8117}\sqrt{830}e^{15} + \frac{108}{8117}\sqrt{345}e^{26}, \frac{918}{8117}e^{16} + \frac{27}{8117}\sqrt{1322}e^{35}$	$(-\frac{486}{8117}, \frac{513}{8117}, -\frac{1485}{8117}, \frac{1269}{8117}, \frac{1026}{8117}, \frac{27}{8117}, -\frac{216}{8117}, \frac{540}{8117}, -\frac{459}{8117})$ $+ \frac{27}{8117}\sqrt{6830}e^4 \otimes e_8 + \frac{54}{8117}\sqrt{1961}e^2 \otimes e_7$	{2346, 479}
942:33	$0, 0, 0, 0, 0, \frac{1}{401}\sqrt{3795}e^{12}, \frac{1}{401}\sqrt{50853}e^{34},$ $\frac{1}{401}\sqrt{44022}e^{15} + \frac{1}{401}\sqrt{67298}e^{26}, \frac{1}{401}\sqrt{43010}e^{16} + \frac{1}{401}\sqrt{50347}e^{35}$	$(\frac{70}{401}, -\frac{61}{401}, \frac{201}{401}, -\frac{36}{401}, -\frac{122}{401}, \frac{9}{401}, \frac{165}{401}, -\frac{52}{401}, \frac{79}{401})$ $+ \frac{1}{401}\sqrt{170269}e^3 \otimes e_8$	{1345, 1357, 245789, 2589}
942:33	$0, 0, 0, 0, 0, \frac{86}{3049}\sqrt{318}e^{12}, \frac{86}{3049}\sqrt{266}e^{34},$ $\frac{172}{3049}\sqrt{105}e^{15} + \frac{774}{3049}\sqrt{5}e^{26}, \frac{258}{3049}\sqrt{29}e^{16} + \frac{516}{3049}\sqrt{37}e^{35}$	$(\frac{897}{3049}, -\frac{189}{3049}, \frac{1983}{3049}, -\frac{1715}{3049}, -\frac{378}{3049}, \frac{708}{3049}, \frac{268}{3049}, \frac{519}{3049}, \frac{1605}{3049})$ $+ \frac{86}{3049}\sqrt{2515}e^3 \otimes e_4$	{12358, 145689, 2356, 459}
942:34	$0, 0, 0, 0, 0, \frac{2}{843}\sqrt{4610}e^{12}, \frac{2}{843}\sqrt{11986}e^{14} + \frac{2}{843}\sqrt{4610}e^{35},$ $\frac{8}{843}\sqrt{6915}e^{16}, \frac{2}{843}\sqrt{54859}e^{13} + \frac{4}{843}\sqrt{922}e^{26}$	$(-\frac{220}{843}, \frac{127}{843}, \frac{254}{843}, \frac{203}{281}, \frac{45}{281}, -\frac{31}{281}, \frac{389}{843}, -\frac{313}{843}, \frac{34}{843})$ $+ \frac{2}{843}\sqrt{321778}e^4 \otimes e_8$	{123789, 134569, 23568, 347}
942:34	$0, 0, 0, 0, 0, \frac{55}{4959}\sqrt{30}e^{12}, \frac{55}{1653}\sqrt{78}e^{14} + \frac{110}{4959}\sqrt{418}e^{35},$ $\frac{220}{1653}\sqrt{5}e^{16}, \frac{220}{4959}\sqrt{29}e^{13} + \frac{385}{4959}\sqrt{34}e^{26}$	$(-\frac{110}{1653}, -\frac{220}{4959}, -\frac{440}{4959}, \frac{715}{1653}, \frac{2255}{4959}, -\frac{550}{4959}, \frac{605}{1653}, -\frac{880}{4959}, -\frac{770}{4959})$ $+ \frac{110}{4959}\sqrt{934}e^4 \otimes e_8 + \frac{55}{4959}\sqrt{4926}e^5 \otimes e_9$	{1469, 457}
942:34	$0, 0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{10}e^{14} + \frac{3}{11}\sqrt{2}e^{35}, \frac{1}{11}\sqrt{2}e^{16},$ $\frac{2}{11}\sqrt{5}e^{13} + \frac{1}{11}\sqrt{22}e^{26}$	$(0, \frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{3}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{1}{11}, \frac{2}{11})$ $+ \frac{1}{11}\sqrt{38}e^2 \otimes e_7$	{123459, 136789, 2356, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:34	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{430}e^{12}, \frac{1}{58}\sqrt{190}e^{14} + \frac{1}{58}\sqrt{470}e^{35}, \frac{1}{58}\sqrt{10}e^{16},$ $\frac{1}{29}\sqrt{110}e^{13} + \frac{7}{58}\sqrt{10}e^{26}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{6}{29}, -\frac{1}{29}, -\frac{8}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{1}{29}, \frac{5}{29})$ $+\frac{1}{29}\sqrt{30}e^3 \otimes e_8 + \frac{1}{58}\sqrt{890}e^2 \otimes e_7$	{13679, 347}
942:34	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{51}e^{12}, \frac{2}{53}\sqrt{39}e^{14} + \frac{2}{53}\sqrt{51}e^{35}, \frac{2}{53}\sqrt{3}e^{16},$ $\frac{6}{53}\sqrt{7}e^{13} + \frac{6}{53}\sqrt{7}e^{26}$	$(-\frac{4}{53}, \frac{5}{53}, \frac{10}{53}, \frac{3}{53}, -\frac{11}{53}, \frac{1}{53}, -\frac{1}{53}, -\frac{3}{53}, \frac{6}{53})$ $+\frac{2}{53}\sqrt{111}e^2 \otimes e_7 + \frac{2}{53}\sqrt{30}e^4 \otimes e_8$	{23568, 347}
942:34	$0, 0, 0, 0, 0, \frac{5}{197}\sqrt{246}e^{12}, \frac{5}{197}\sqrt{266}e^{14} + \frac{20}{197}\sqrt{13}e^{35}, \frac{10}{197}\sqrt{58}e^{16},$ $\frac{20}{197}\sqrt{15}e^{13} + \frac{5}{197}\sqrt{42}e^{26}$	$(\frac{130}{591}, -\frac{80}{591}, -\frac{160}{591}, -\frac{95}{591}, \frac{65}{197}, \frac{50}{197}, \frac{35}{591}, \frac{60}{197}, -\frac{10}{197})$ $+\frac{10}{197}\sqrt{146}e^1 \otimes e_4 + \frac{5}{197}\sqrt{470}e^5 \otimes e_9$	{1289, 169}
942:34	$0, 0, 0, 0, 0, \frac{3}{158}\sqrt{38}e^{12}, \frac{3}{158}\sqrt{70}e^{14} + \frac{3}{158}\sqrt{38}e^{35}, \frac{1}{158}\sqrt{318}e^{16},$ $\frac{3}{79}\sqrt{10}e^{13} + \frac{1}{158}\sqrt{858}e^{26}$	$(-\frac{5}{79}, \frac{4}{79}, \frac{8}{79}, \frac{6}{79}, -\frac{7}{79}, -\frac{1}{79}, \frac{1}{79}, -\frac{6}{79}, \frac{3}{79})$ $+\frac{1}{158}\sqrt{1122}e^2 \otimes e_7 + \frac{5}{79}\sqrt{6}e^4 \otimes e_9$	{136789, 3478}
942:34	$0, 0, 0, 0, 0, \frac{15}{547}\sqrt{109}e^{12}, \frac{15}{547}\sqrt{119}e^{14} + \frac{60}{547}\sqrt{7}e^{35}, \frac{20}{547}\sqrt{102}e^{16},$ $\frac{15}{547}\sqrt{15}e^{13} + \frac{10}{547}\sqrt{102}e^{26}$	$(\frac{55}{547}, -\frac{50}{547}, -\frac{100}{547}, -\frac{20}{547}, \frac{135}{547}, \frac{5}{547}, \frac{35}{547}, \frac{60}{547}, -\frac{45}{547})$ $+\frac{10}{547}\sqrt{366}e^1 \otimes e_4 + \frac{5}{547}\sqrt{1545}e^5 \otimes e_8$	{128, 24689}
942:34	$0, 0, 0, 0, 0, \frac{16}{265}\sqrt{30}e^{12}, \frac{16}{265}\sqrt{42}e^{14} + \frac{16}{265}\sqrt{3}e^{35}, \frac{32}{265}\sqrt{2}e^{16},$ $\frac{16}{53}\sqrt{3}e^{13} + \frac{16}{265}\sqrt{33}e^{26}$	$(-\frac{52}{265}, \frac{24}{265}, \frac{48}{265}, \frac{124}{265}, \frac{24}{265}, -\frac{28}{265}, \frac{72}{265}, -\frac{16}{53}, -\frac{4}{265})$ $+\frac{16}{265}\sqrt{139}e^4 \otimes e_9 + \frac{48}{265}\sqrt{11}e^3 \otimes e_8$	{1345, 3569}
942:34	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{470}e^{12}, \frac{1}{58}\sqrt{190}e^{14} + \frac{1}{58}\sqrt{430}e^{35}, \frac{1}{58}\sqrt{10}e^{16},$ $\frac{1}{29}\sqrt{110}e^{13} + \frac{7}{58}\sqrt{10}e^{26}$	$(\frac{1}{29}, \frac{2}{29}, \frac{4}{29}, -\frac{4}{29}, -\frac{7}{29}, \frac{3}{29}, -\frac{3}{29}, \frac{4}{29}, \frac{5}{29})$ $+\frac{1}{29}\sqrt{30}e^1 \otimes e_4 + \frac{1}{58}\sqrt{890}e^2 \otimes e_7$	{13679, 347}
942:34	$0, 0, 0, 0, 0, \frac{50}{1603}\sqrt{142}e^{12}, \frac{25}{1603}\sqrt{683}e^{14} + \frac{25}{1603}\sqrt{31}e^{35},$ $\frac{100}{1603}\sqrt{46}e^{16}, \frac{100}{1603}\sqrt{65}e^{13} + \frac{150}{1603}\sqrt{14}e^{26}$	$(\frac{200}{1603}, \frac{100}{1603}, \frac{200}{1603}, -\frac{425}{1603}, -\frac{425}{1603}, \frac{300}{1603}, -\frac{225}{1603}, \frac{500}{1603}, \frac{400}{1603})$ $+\frac{25}{1603}\sqrt{1145}e^3 \otimes e_5 + \frac{25}{1603}\sqrt{1797}e^1 \otimes e_4$	{1238, 136, 234689, 349}
942:34	$0, 0, 0, 0, 0, \frac{50}{1603}\sqrt{142}e^{12}, \frac{25}{1603}\sqrt{683}e^{14} + \frac{25}{1603}\sqrt{31}e^{35},$ $\frac{100}{1603}\sqrt{46}e^{16}, \frac{100}{1603}\sqrt{65}e^{13} + \frac{150}{1603}\sqrt{14}e^{26}$	$(\frac{200}{1603}, \frac{100}{1603}, \frac{200}{1603}, -\frac{425}{1603}, -\frac{425}{1603}, \frac{300}{1603}, -\frac{225}{1603}, \frac{500}{1603}, \frac{400}{1603})$ $-\frac{25}{1603}\sqrt{1145}e^3 \otimes e_5 + \frac{25}{1603}\sqrt{1797}e^1 \otimes e_4$	{1238, 136, 234689, 349}
942:34	$0, 0, 0, 0, 0, \frac{20}{781}\sqrt{366}e^{12}, \frac{8}{781}\sqrt{305}e^{14} + \frac{20}{781}\sqrt{366}e^{35}, \frac{4}{781}\sqrt{6710}e^{16},$ $\frac{32}{781}\sqrt{671}e^{13} + \frac{8}{781}\sqrt{1830}e^{26}$	$(-\frac{95}{781}, \frac{252}{781}, \frac{504}{781}, \frac{127}{781}, -\frac{472}{781}, \frac{157}{781}, \frac{32}{781}, \frac{62}{781}, \frac{409}{781})$ $+\frac{16}{781}\sqrt{5063}e^3 \otimes e_5$	{125689, 159, 2458, 456}
942:34	$0, 0, 0, 0, 0, \frac{246}{6805}\sqrt{14}e^{12}, \frac{41}{6805}\sqrt{3090}e^{14} + \frac{41}{6805}\sqrt{4622}e^{35},$ $\frac{41}{6805}\sqrt{2566}e^{16}, \frac{41}{6805}\sqrt{2834}e^{13} + \frac{41}{6805}\sqrt{506}e^{26}$	$(-\frac{779}{6805}, \frac{123}{6805}, \frac{246}{6805}, \frac{2173}{6805}, \frac{1148}{6805}, -\frac{656}{6805}, \frac{1394}{6805}, -\frac{287}{1361}, -\frac{533}{6805})$ $+\frac{41}{6805}\sqrt{5662}e^5 \otimes e_9 + \frac{82}{6805}\sqrt{1673}e^3 \otimes e_8$	{1289, 25678}
942:34	$0, 0, 0, 0, 0, \frac{105}{1909}\sqrt{30}e^{12}, \frac{21}{1909}\sqrt{1722}e^{14} + \frac{105}{1909}\sqrt{30}e^{35},$ $\frac{42}{1909}\sqrt{318}e^{16}, \frac{21}{1909}\sqrt{1698}e^{13} + \frac{210}{1909}\sqrt{6}e^{26}$	$(-\frac{462}{1909}, \frac{420}{1909}, \frac{840}{1909}, \frac{819}{1909}, -\frac{21}{83}, -\frac{42}{1909}, \frac{357}{1909}, -\frac{504}{1909}, \frac{378}{1909})$ $+\frac{21}{1909}\sqrt{4818}e^3 \otimes e_5 + \frac{21}{1909}\sqrt{5466}e^4 \otimes e_8$	{124569, 568}
942:34	$0, 0, 0, 0, 0, \frac{189}{523}e^{12}, \frac{21}{523}\sqrt{115}e^{14} + \frac{189}{523}e^{35}, \frac{28}{523}\sqrt{57}e^{16},$ $\frac{14}{523}\sqrt{327}e^{13} + \frac{21}{523}\sqrt{61}e^{26}$	$(-\frac{91}{523}, \frac{56}{523}, \frac{112}{523}, \frac{168}{523}, -\frac{35}{523}, -\frac{35}{523}, \frac{77}{523}, -\frac{126}{523}, \frac{21}{523})$ $+\frac{7}{523}\sqrt{1095}e^3 \otimes e_5 + \frac{7}{523}\sqrt{1887}e^4 \otimes e_9$	{123468, 134, 2389, 369}
942:34	$0, 0, 0, 0, 0, \frac{189}{523}e^{12}, \frac{21}{523}\sqrt{115}e^{14} + \frac{189}{523}e^{35}, \frac{28}{523}\sqrt{57}e^{16},$ $\frac{14}{523}\sqrt{327}e^{13} + \frac{21}{523}\sqrt{61}e^{26}$	$(-\frac{91}{523}, \frac{56}{523}, \frac{112}{523}, \frac{168}{523}, -\frac{35}{523}, -\frac{35}{523}, \frac{77}{523}, -\frac{126}{523}, \frac{21}{523})$ $+\frac{7}{523}\sqrt{1095}e^3 \otimes e_5 - \frac{7}{523}\sqrt{1887}e^4 \otimes e_9$	{123468, 134, 2389, 369}
942:34	$0, 0, 0, 0, 0, \frac{60}{2519}\sqrt{937}e^{12}, \frac{60}{2519}\sqrt{782}e^{14} + \frac{60}{2519}\sqrt{221}e^{35},$ $\frac{60}{2519}\sqrt{1069}e^{16}, \frac{420}{2519}\sqrt{10}e^{13} + \frac{360}{2519}\sqrt{11}e^{26}$	$(\frac{805}{2519}, -\frac{170}{2519}, -\frac{340}{2519}, -\frac{995}{2519}, \frac{150}{2519}, \frac{635}{2519}, -\frac{190}{2519}, \frac{1440}{2519}, \frac{465}{2519})$ $+\frac{120}{2519}\sqrt{537}e^1 \otimes e_4$	{12358, 1356, 2345689, 3459}
942:34	$0, 0, 0, 0, 0, \frac{60}{2519}\sqrt{221}e^{12}, \frac{60}{2519}\sqrt{782}e^{14} + \frac{60}{2519}\sqrt{937}e^{35},$ $\frac{60}{2519}\sqrt{1069}e^{16}, \frac{420}{2519}\sqrt{10}e^{13} + \frac{360}{2519}\sqrt{11}e^{26}$	$(-\frac{57}{229}, \frac{546}{2519}, \frac{1092}{2519}, \frac{1153}{2519}, -\frac{566}{2519}, -\frac{81}{2519}, \frac{526}{2519}, -\frac{708}{2519}, \frac{465}{2519})$ $+\frac{120}{2519}\sqrt{537}e^3 \otimes e_8$	{13467, 1356, 3459, 379}
942:34	$0, 0, 0, 0, 0, \frac{1}{96}\sqrt{210}e^{12}, \frac{1}{96}\sqrt{330}e^{14} + \frac{1}{96}\sqrt{210}e^{35}, \frac{13}{192}\sqrt{10}e^{16},$ $\frac{5}{192}\sqrt{34}e^{13} + \frac{1}{96}\sqrt{190}e^{26}$	$(-\frac{1}{384}, \frac{3}{64}, \frac{3}{32}, -\frac{7}{128}, -\frac{29}{192}, \frac{17}{384}, -\frac{11}{192}, \frac{1}{24}, \frac{35}{384})$ $+\frac{1}{192}\sqrt{1790}e^1 \otimes e_4 + \frac{1}{192}\sqrt{1790}e^3 \otimes e_8$	{1356, 3459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:34	$0, 0, 0, 0, 0, \frac{5}{41}\sqrt{15}e^{12}, \frac{5}{41}\sqrt{33}e^{14} + \frac{10}{41}\sqrt{3}e^{35}, \frac{10}{41}\sqrt{5}e^{16},$ $\frac{5}{41}\sqrt{21}e^{13} + \frac{10}{41}\sqrt{6}e^{26}$	$(-\frac{5}{41}, 0, 0, \frac{20}{41}, \frac{15}{41}, -\frac{5}{41}, \frac{15}{41}, -\frac{10}{41}, -\frac{5}{41})$ $+ \frac{15}{41}e^5 \otimes e_8 + \frac{40}{41}e^4 \otimes e_9$	{123468, 2389}
942:34	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{66}e^{12}, \frac{1}{26}\sqrt{34}e^{14} + \frac{1}{26}\sqrt{66}e^{35}, \frac{1}{26}\sqrt{2}e^{16},$ $\frac{1}{13}\sqrt{22}e^{13} + \frac{1}{26}\sqrt{78}e^{26}$	$(\frac{1}{13}, 0, 0, -\frac{2}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{10}e^3 \otimes e_5 + \frac{3}{26}\sqrt{14}e^2 \otimes e_7$	{123459, 2356}
942:34	$0, 0, 0, 0, 0, \frac{3}{319}\sqrt{3473}e^{12}, \frac{3}{319}\sqrt{4255}e^{14} + \frac{6}{319}\sqrt{1909}e^{35}, \frac{6}{319}\sqrt{1955}e^{16},$ $\frac{3}{319}\sqrt{3979}e^{13} + \frac{6}{319}\sqrt{138}e^{26}$	$(-\frac{19}{319}, -\frac{16}{319}, -\frac{32}{319}, \frac{140}{319}, \frac{153}{319}, -\frac{35}{319}, \frac{11}{29}, -\frac{54}{319}, -\frac{51}{319})$ $+ \frac{3}{319}\sqrt{12489}e^5 \otimes e_8$	{128, 14567, 24689, 579}
942:34	$0, 0, 0, 0, 0, \frac{1}{373}\sqrt{211}e^{12}, \frac{1}{373}\sqrt{97}e^{14} + \frac{1}{373}\sqrt{281}e^{35}, \frac{1}{373}\sqrt{53}e^{16},$ $\frac{1}{373}\sqrt{194}e^{13} + \frac{1}{373}\sqrt{331}e^{26}$	$(\frac{7}{373}, -\frac{3}{373}, -\frac{6}{373}, -\frac{11}{373}, \frac{2}{373}, \frac{4}{373}, -\frac{4}{373}, \frac{11}{373}, \frac{1}{373})$ $+ \frac{1}{373}\sqrt{210}e^5 \otimes e_9 + \frac{1}{373}\sqrt{461}e^2 \otimes e_7$	{136789, 2356}
942:34	$0, 0, 0, 0, 0, \frac{3}{1297}\sqrt{8890}e^{12}, \frac{3}{1297}\sqrt{29210}e^{14} + \frac{6}{1297}\sqrt{25019}e^{35},$ $\frac{6}{1297}\sqrt{5969}e^{16}, \frac{6}{1297}\sqrt{14605}e^{13} + \frac{9}{1297}\sqrt{10922}e^{26}$	$(\frac{164}{1297}, -\frac{202}{1297}, -\frac{404}{1297}, \frac{335}{1297}, \frac{903}{1297}, -\frac{38}{1297}, \frac{499}{1297}, \frac{126}{1297}, -\frac{240}{1297})$ $+ \frac{3}{1297}\sqrt{273558}e^5 \otimes e_9$	{129, 1689, 2567, 578}
942:34	$0, 0, 0, 0, 0, \frac{12}{773}\sqrt{1239}e^{12}, \frac{4}{773}\sqrt{23010}e^{14} + \frac{12}{773}\sqrt{1239}e^{35},$ $\frac{4}{773}\sqrt{16343}e^{16}, \frac{4}{773}\sqrt{15222}e^{13} + \frac{8}{773}\sqrt{3894}e^{26}$	$(-\frac{101}{773}, \frac{6}{773}, \frac{12}{773}, \frac{383}{773}, \frac{270}{773}, \frac{95}{773}, \frac{282}{773}, -\frac{196}{773}, -\frac{89}{773})$ $+ \frac{8}{773}\sqrt{10207}e^4 \otimes e_9$	{123468, 134, 2389, 369}
942:35	$0, 0, 0, 0, 0, \frac{7}{242}\sqrt{177}e^{12}, \frac{7}{242}\sqrt{133}e^{13} + \frac{7}{242}\sqrt{213}e^{45}, \frac{7}{242}\sqrt{263}e^{26},$ $\frac{35}{242}\sqrt{5}e^{16} + \frac{21}{121}\sqrt{3}e^{23}$	$(-\frac{7}{121}, \frac{28}{121}, -\frac{14}{121}, \frac{14}{121}, -\frac{35}{121}, \frac{21}{121}, -\frac{21}{121}, \frac{49}{121}, \frac{14}{121})$ $+ \frac{49}{121}e^4 \otimes e_5 + \frac{7}{242}\sqrt{643}e^2 \otimes e_7$	{3479, 3579}
942:35	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{481}\sqrt{3562}e^{13} + \frac{6}{481}\sqrt{1339}e^{45}, \frac{3}{481}\sqrt{182}e^{26},$ $\frac{12}{481}\sqrt{195}e^{16} + \frac{3}{481}\sqrt{2782}e^{23}$	$(\frac{3}{37}, -\frac{6}{37}, \frac{6}{37}, 0, \frac{9}{37}, -\frac{3}{37}, \frac{9}{37}, -\frac{9}{37}, 0)$ $+ \frac{15}{481}\sqrt{286}e^5 \otimes e_9 + \frac{6}{481}\sqrt{1027}e^4 \otimes e_8$	{1456, 578}
942:35	$0, 0, 0, 0, 0, \frac{8}{1421}\sqrt{1366}e^{12}, \frac{2}{1421}\sqrt{189874}e^{13} + \frac{1}{1421}\sqrt{900194}e^{45},$ $\frac{3}{1421}\sqrt{47810}e^{26}, \frac{1}{1421}\sqrt{793646}e^{16} + \frac{3}{1421}\sqrt{83326}e^{23}$	$(\frac{96}{1421}, -\frac{113}{1421}, \frac{192}{1421}, \frac{762}{1421}, -\frac{474}{1421}, -\frac{17}{1421}, \frac{288}{1421}, -\frac{130}{1421}, \frac{79}{1421})$ $+ \frac{2}{1421}\sqrt{422094}e^4 \otimes e_9$	{129, 1456, 256789, 478}
942:35	$0, 0, 0, 0, 0, \frac{7}{193}\sqrt{177}e^{12}, \frac{7}{193}\sqrt{133}e^{13} + \frac{7}{193}\sqrt{213}e^{45}, \frac{7}{193}\sqrt{263}e^{26},$ $\frac{35}{193}\sqrt{5}e^{16} + \frac{42}{193}\sqrt{3}e^{23}$	$(-\frac{14}{193}, \frac{56}{193}, -\frac{28}{193}, -\frac{21}{193}, -\frac{21}{193}, \frac{42}{193}, -\frac{42}{193}, \frac{98}{193}, \frac{28}{193})$ $+ \frac{7}{193}\sqrt{643}e^2 \otimes e_7$	{123458, 1238, 3479}
942:35	$0, 0, 0, 0, 0, \frac{8}{2877}\sqrt{25201}e^{12}, \frac{8}{2877}\sqrt{2291}e^{13} + \frac{2}{2877}\sqrt{435290}e^{45},$ $\frac{2}{2877}\sqrt{316158}e^{26}, \frac{2}{2877}\sqrt{297830}e^{16} + \frac{2}{2877}\sqrt{96222}e^{23}$	$(\frac{88}{959}, \frac{230}{2877}, \frac{176}{959}, \frac{2687}{2877}, -\frac{1895}{2877}, \frac{494}{2877}, \frac{264}{959}, \frac{724}{2877}, \frac{758}{2877})$ $+ \frac{4582}{2877}e^4 \otimes e_5$	{124789, 125789, 14678, 15678}
942:35	$0, 0, 0, 0, 0, \frac{403}{1849}\sqrt{3}e^{12}, \frac{31}{1849}\sqrt{1257}e^{13} + \frac{31}{1849}\sqrt{303}e^{45},$ $\frac{31}{1849}\sqrt{987}e^{26}, \frac{62}{1849}\sqrt{209}e^{16} + \frac{186}{1849}\sqrt{17}e^{23}$	$(\frac{217}{1849}, -\frac{372}{1849}, \frac{434}{1849}, \frac{806}{1849}, -\frac{155}{1849}, -\frac{155}{1849}, \frac{651}{1849}, -\frac{527}{1849}, \frac{62}{1849})$ $+ \frac{31}{1849}\sqrt{2389}e^3 \otimes e_8 + \frac{961}{1849}e^4 \otimes e_5$	{2489, 2589, 468, 568}
942:35	$0, 0, 0, 0, 0, \frac{403}{1849}\sqrt{3}e^{12}, \frac{31}{1849}\sqrt{1257}e^{13} + \frac{31}{1849}\sqrt{303}e^{45},$ $\frac{31}{1849}\sqrt{987}e^{26}, \frac{62}{1849}\sqrt{209}e^{16} + \frac{186}{1849}\sqrt{17}e^{23}$	$(\frac{217}{1849}, -\frac{372}{1849}, \frac{434}{1849}, \frac{806}{1849}, -\frac{155}{1849}, -\frac{155}{1849}, \frac{651}{1849}, -\frac{527}{1849}, \frac{62}{1849})$ $+ \frac{31}{1849}\sqrt{2389}e^3 \otimes e_8 - \frac{961}{1849}e^4 \otimes e_5$	{2489, 2589, 468, 568}
942:35	$0, 0, 0, 0, 0, \frac{2}{597}\sqrt{17174}e^{12}, \frac{2}{597}\sqrt{10803}e^{13} + \frac{4}{597}\sqrt{14681}e^{45},$ $\frac{4}{199}\sqrt{1662}e^{26}, \frac{2}{597}\sqrt{2770}e^{16} + \frac{2}{597}\sqrt{11357}e^{23}$	$(\frac{31}{199}, -\frac{131}{597}, \frac{62}{199}, \frac{385}{597}, -\frac{106}{597}, -\frac{38}{597}, \frac{93}{199}, -\frac{169}{597}, \frac{55}{597})$ $+ \frac{2}{597}\sqrt{136007}e^4 \otimes e_8$	{128, 1689, 2467, 479}
942:35	$0, 0, 0, 0, 0, \frac{7}{1154}\sqrt{766}e^{12}, \frac{35}{1154}\sqrt{14}e^{13} + \frac{21}{1154}\sqrt{158}e^{45},$ $\frac{7}{1154}\sqrt{1658}e^{26}, \frac{7}{1154}\sqrt{590}e^{16} + \frac{7}{577}\sqrt{58}e^{23}$	$(-\frac{7}{577}, \frac{28}{577}, -\frac{14}{577}, \frac{98}{577}, -\frac{119}{577}, \frac{21}{577}, -\frac{21}{577}, \frac{49}{577}, \frac{14}{577})$ $+ \frac{7}{1154}\sqrt{2410}e^2 \otimes e_7 + \frac{7}{577}\sqrt{434}e^4 \otimes e_8$	{1238, 3479}
942:35	$0, 0, 0, 0, 0, \frac{806}{2737}\sqrt{3}e^{12}, \frac{62}{2737}\sqrt{1257}e^{13} + \frac{62}{2737}\sqrt{303}e^{45},$ $\frac{62}{2737}\sqrt{987}e^{26}, \frac{124}{2737}\sqrt{209}e^{16} + \frac{372}{2737}\sqrt{17}e^{23}$	$(\frac{62}{391}, -\frac{744}{2737}, \frac{124}{391}, \frac{93}{391}, \frac{93}{391}, -\frac{310}{2737}, \frac{186}{391}, -\frac{62}{161}, \frac{124}{2737})$ $+ \frac{62}{2737}\sqrt{2389}e^3 \otimes e_8$	{2489, 468}
942:35	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{7}{317}\sqrt{77}e^{13} + \frac{7}{317}\sqrt{237}e^{45}, \frac{7}{317}\sqrt{29}e^{26},$ $\frac{7}{317}\sqrt{79}e^{16} + \frac{7}{317}\sqrt{174}e^{23}$	$(-\frac{7}{317}, \frac{28}{317}, -\frac{14}{317}, \frac{63}{317}, -\frac{84}{317}, \frac{21}{317}, -\frac{21}{317}, \frac{49}{317}, \frac{14}{317})$ $+ \frac{49}{317}\sqrt{6}e^4 \otimes e_9 + \frac{7}{317}\sqrt{271}e^2 \otimes e_7$	{1289, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:35	$0, 0, 0, 0, 0, \frac{248}{2381}\sqrt{3}e^{12}, \frac{31}{2381}\sqrt{498}e^{13} + \frac{62}{2381}\sqrt{318}e^{45},$ $\frac{31}{2381}\sqrt{138}e^{26}, \frac{868}{2381}e^{16} + \frac{93}{2381}\sqrt{178}e^{23}$	$(\frac{217}{2381}, -\frac{372}{2381}, \frac{434}{2381}, \frac{1023}{2381}, -\frac{372}{2381}, -\frac{155}{2381}, \frac{651}{2381}, -\frac{527}{2381}, \frac{62}{2381})$ $+ \frac{1178}{2381}e^3 \otimes e_8 + \frac{93}{2381}\sqrt{310}e^4 \otimes e_9$	{2345, 369}
942:36	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{10}e^{12}, \frac{4}{53}\sqrt{34}e^{14} + \frac{8}{53}\sqrt{5}e^{35}, \frac{4}{53}\sqrt{30}e^{26},$ $\frac{4}{53}\sqrt{10}e^{16} + \frac{4}{53}\sqrt{22}e^{23}$	$(-\frac{2}{53}, -\frac{4}{53}, -\frac{4}{53}, \frac{22}{53}, \frac{24}{53}, -\frac{6}{53}, \frac{20}{53}, -\frac{10}{53}, -\frac{8}{53})$ $+ \frac{12}{53}\sqrt{10}e^5 \otimes e_9 + \frac{16}{53}\sqrt{6}e^4 \otimes e_8$	{123456, 2358}
942:36	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{22}e^{12}, \frac{4}{41}\sqrt{46}e^{14} + \frac{8}{41}\sqrt{17}e^{35}, \frac{12}{41}\sqrt{2}e^{26},$ $\frac{4}{41}\sqrt{74}e^{16} + \frac{4}{41}\sqrt{6}e^{23}$	$(-\frac{6}{41}, \frac{4}{41}, -\frac{12}{41}, \frac{18}{41}, \frac{24}{41}, -\frac{2}{41}, \frac{12}{41}, \frac{2}{41}, -\frac{8}{41})$ $+ \frac{4}{41}\sqrt{138}e^5 \otimes e_9$	{129, 14567, 24689, 578}
942:36	$0, 0, 0, 0, 0, \frac{4}{583}\sqrt{9519}e^{12}, \frac{8}{583}\sqrt{3674}e^{14} + \frac{4}{583}\sqrt{9519}e^{35},$ $\frac{2}{583}\sqrt{17535}e^{26}, \frac{2}{583}\sqrt{2839}e^{16} + \frac{6}{583}\sqrt{7181}e^{23}$	$(-\frac{52}{583}, \frac{1}{583}, -\frac{104}{583}, \frac{21}{53}, \frac{283}{53}, -\frac{51}{583}, \frac{179}{583}, -\frac{50}{583}, -\frac{103}{583})$ $+ \frac{8}{583}\sqrt{5511}e^4 \otimes e_9$	{126789, 1458, 259, 467}
942:36	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{457}e^{12}, \frac{40}{629}\sqrt{93}e^{14} + \frac{20}{629}\sqrt{271}e^{35}, \frac{20}{629}\sqrt{6}e^{26},$ $\frac{60}{629}\sqrt{51}e^{16} + \frac{20}{629}\sqrt{370}e^{23}$	$(\frac{5}{37}, -\frac{10}{629}, \frac{10}{37}, -\frac{115}{629}, -\frac{200}{629}, \frac{75}{629}, -\frac{30}{629}, \frac{65}{629}, \frac{160}{629})$ $+ \frac{60}{629}\sqrt{62}e^1 \otimes e_4$	{12359, 1356, 2345689, 3458}
942:36	$0, 0, 0, 0, 0, \frac{13}{295}\sqrt{226}e^{12}, \frac{13}{59}\sqrt{14}e^{14} + \frac{52}{295}\sqrt{14}e^{35}, \frac{13}{295}\sqrt{102}e^{26},$ $\frac{52}{295}e^{16} + \frac{104}{295}\sqrt{6}e^{23}$	$(-\frac{26}{295}, 0, -\frac{52}{295}, \frac{117}{295}, \frac{143}{295}, -\frac{26}{295}, \frac{91}{295}, -\frac{26}{295}, -\frac{52}{295})$ $+ \frac{13}{295}\sqrt{6}e^5 \otimes e_8 + \frac{52}{295}\sqrt{33}e^4 \otimes e_9$	{126789, 259}
942:36	$0, 0, 0, 0, 0, \frac{3}{230}\sqrt{6}e^{12}, \frac{3}{230}\sqrt{138}e^{14} + \frac{3}{230}\sqrt{6}e^{35}, \frac{1}{230}\sqrt{1038}e^{26},$ $\frac{1}{230}\sqrt{858}e^{16} + \frac{3}{115}\sqrt{14}e^{23}$	$(-\frac{1}{23}, \frac{4}{115}, -\frac{2}{23}, \frac{6}{115}, \frac{11}{115}, -\frac{1}{115}, \frac{1}{115}, \frac{3}{115}, -\frac{6}{115})$ $+ \frac{1}{230}\sqrt{1374}e^2 \otimes e_7 + \frac{7}{115}\sqrt{6}e^4 \otimes e_8$	{124569, 2589}
942:36	$0, 0, 0, 0, 0, \frac{272}{1685}\sqrt{7}e^{12}, \frac{68}{1685}\sqrt{161}e^{14} + \frac{34}{1685}\sqrt{254}e^{35},$ $\frac{34}{1685}\sqrt{3}e^{26}, \frac{34}{1685}\sqrt{127}e^{16} + \frac{102}{1685}\sqrt{93}e^{23}$	$(\frac{68}{1685}, -\frac{51}{337}, \frac{136}{1685}, \frac{459}{1685}, \frac{391}{1685}, -\frac{187}{1685}, \frac{527}{1685}, -\frac{442}{1685}, -\frac{119}{1685})$ $+ \frac{34}{1685}\sqrt{582}e^3 \otimes e_8 + \frac{34}{1685}\sqrt{966}e^4 \otimes e_9$	{2589, 4678}
942:36	$0, 0, 0, 0, 0, \frac{1}{331}\sqrt{43510}e^{12}, \frac{1}{331}\sqrt{42594}e^{14} + \frac{2}{331}\sqrt{21526}e^{35},$ $\frac{1}{331}\sqrt{64578}e^{26}, \frac{4}{331}\sqrt{1374}e^{16} + \frac{2}{331}\sqrt{16030}e^{23}$	$(\frac{2}{331}, -\frac{44}{331}, \frac{4}{331}, \frac{145}{331}, \frac{143}{331}, \frac{42}{331}, \frac{147}{331}, -\frac{86}{331}, -\frac{40}{331})$ $+ \frac{3}{331}\sqrt{14198}e^5 \otimes e_8$	{1234789, 134678, 234569, 345}
942:36	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{22}e^{12}, \frac{4}{43}\sqrt{33}e^{14} + \frac{4}{43}\sqrt{22}e^{35}, \frac{2}{43}\sqrt{165}e^{26},$ $\frac{6}{43}\sqrt{11}e^{16} + \frac{2}{43}\sqrt{77}e^{23}$	$(-\frac{4}{43}, \frac{13}{43}, -\frac{8}{43}, -\frac{5}{43}, -\frac{1}{43}, \frac{9}{43}, -\frac{9}{43}, \frac{22}{43}, \frac{5}{43})$ $+ \frac{12}{43}\sqrt{11}e^2 \otimes e_7$	{123458, 136789, 2356, 3479}
942:36	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{7}{121}\sqrt{119}e^{14} + \frac{7}{121}\sqrt{65}e^{35}, \frac{21}{121}\sqrt{5}e^{26},$ $\frac{28}{121}\sqrt{5}e^{16} + \frac{14}{121}\sqrt{23}e^{23}$	$(\frac{21}{121}, -\frac{28}{121}, \frac{42}{121}, \frac{14}{121}, -\frac{7}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{35}{121}, \frac{14}{121})$ $- \frac{7}{121}\sqrt{131}e^4 \otimes e_8 + \frac{7}{121}\sqrt{95}e^3 \otimes e_5$	{124569, 145, 2589, 568}
942:36	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{7}{121}\sqrt{119}e^{14} + \frac{7}{121}\sqrt{65}e^{35}, \frac{21}{121}\sqrt{5}e^{26},$ $\frac{28}{121}\sqrt{5}e^{16} + \frac{14}{121}\sqrt{23}e^{23}$	$(\frac{21}{121}, -\frac{28}{121}, \frac{42}{121}, \frac{14}{121}, -\frac{7}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{35}{121}, \frac{14}{121})$ $+ \frac{7}{121}\sqrt{131}e^4 \otimes e_8 + \frac{7}{121}\sqrt{95}e^3 \otimes e_5$	{124569, 145, 2589, 568}
942:36	$0, 0, 0, 0, 0, \frac{30}{653}\sqrt{14}e^{12}, \frac{30}{653}\sqrt{46}e^{14} + \frac{20}{653}\sqrt{227}e^{35}, \frac{30}{653}\sqrt{22}e^{26},$ $\frac{10}{653}\sqrt{474}e^{16} + \frac{10}{653}\sqrt{302}e^{23}$	$(\frac{20}{653}, -\frac{90}{653}, \frac{40}{653}, \frac{170}{653}, \frac{150}{653}, -\frac{70}{653}, \frac{190}{653}, -\frac{160}{653}, -\frac{50}{653})$ $+ \frac{30}{653}\sqrt{138}e^5 \otimes e_9 + \frac{40}{653}\sqrt{69}e^3 \otimes e_8$	{1289, 145678}
942:36	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{466}e^{12}, \frac{5}{218}\sqrt{246}e^{14} + \frac{5}{218}\sqrt{298}e^{35}, \frac{5}{218}\sqrt{102}e^{26},$ $\frac{15}{218}\sqrt{38}e^{16} + \frac{5}{109}\sqrt{70}e^{23}$	$(\frac{5}{109}, \frac{10}{109}, \frac{10}{109}, -\frac{20}{109}, -\frac{25}{109}, \frac{15}{109}, -\frac{15}{109}, \frac{25}{109}, \frac{20}{109})$ $+ \frac{15}{109}\sqrt{14}e^1 \otimes e_4 + \frac{15}{218}\sqrt{30}e^2 \otimes e_7$	{123589, 234569}
942:36	$0, 0, 0, 0, 0, \frac{20}{613}\sqrt{295}e^{12}, \frac{8}{613}\sqrt{5251}e^{14} + \frac{20}{613}\sqrt{295}e^{35}, \frac{16}{613}\sqrt{885}e^{26},$ $\frac{4}{613}\sqrt{12095}e^{16} + \frac{28}{613}\sqrt{118}e^{23}$	$(\frac{53}{613}, -\frac{134}{613}, \frac{106}{613}, \frac{257}{613}, \frac{204}{613}, -\frac{81}{613}, \frac{310}{613}, -\frac{215}{613}, -\frac{28}{613})$ $+ \frac{4}{613}\sqrt{31506}e^4 \otimes e_8$	{124569, 145, 2589, 568}
942:36	$0, 0, 0, 0, 0, \frac{5}{439}\sqrt{494}e^{12}, \frac{5}{439}\sqrt{434}e^{14} + \frac{60}{439}\sqrt{3}e^{35}, \frac{5}{439}\sqrt{138}e^{26},$ $\frac{40}{439}\sqrt{7}e^{16} + \frac{20}{439}\sqrt{30}e^{23}$	$(\frac{30}{439}, -\frac{40}{439}, \frac{60}{439}, \frac{5}{439}, -\frac{25}{439}, -\frac{10}{439}, \frac{35}{439}, -\frac{50}{439}, \frac{20}{439})$ $+ \frac{20}{439}\sqrt{31}e^1 \otimes e_4 + \frac{5}{439}\sqrt{310}e^5 \otimes e_8$	{234569, 345}
942:36	$0, 0, 0, 0, 0, \frac{10}{187}\sqrt{138}e^{12}, \frac{5}{187}\sqrt{467}e^{14} + \frac{95}{187}e^{35}, \frac{10}{187}\sqrt{6}e^{26},$ $\frac{20}{187}\sqrt{34}e^{16} + \frac{20}{187}\sqrt{35}e^{23}$	$(0, \frac{20}{187}, 0, -\frac{25}{187}, -\frac{25}{187}, \frac{20}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187})$ $- \frac{5}{187}\sqrt{255}e^3 \otimes e_5 + \frac{5}{187}\sqrt{573}e^1 \otimes e_4$	{123589, 13568, 234569, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:36	$0, 0, 0, 0, 0, \frac{10}{187}\sqrt{138}e^{12}, \frac{5}{187}\sqrt{467}e^{14} + \frac{95}{187}e^{35}, \frac{10}{187}\sqrt{6}e^{26},$ $\frac{20}{187}\sqrt{34}e^{16} + \frac{20}{187}\sqrt{35}e^{23}$	$(0, \frac{20}{187}, 0, -\frac{25}{187}, -\frac{25}{187}, \frac{20}{187}, -\frac{25}{187}, \frac{40}{187}, \frac{20}{187})$ $+ \frac{5}{187}\sqrt{255}e^3 \otimes e_5 + \frac{5}{187}\sqrt{573}e^1 \otimes e_4$	{123589, 13568, 234569, 345}
942:36	$0, 0, 0, 0, 0, \frac{4}{589}\sqrt{12367}e^{12}, \frac{4}{589}\sqrt{14110}e^{14} + \frac{4}{589}\sqrt{12367}e^{35},$ $\frac{16}{589}\sqrt{249}e^{26}, \frac{4}{589}\sqrt{11039}e^{16} + \frac{8}{589}\sqrt{7387}e^{23}$	$(\frac{191}{589}, -\frac{80}{589}, \frac{382}{589}, -\frac{91}{589}, -\frac{282}{589}, \frac{111}{589}, \frac{100}{589}, \frac{1}{19}, \frac{302}{589})$ $+ \frac{4}{589}\sqrt{42330}e^3 \otimes e_5$	{1245689, 1458, 259, 56}
942:36	$0, 0, 0, 0, 0, \frac{100}{2101}\sqrt{161}e^{12}, \frac{1150}{2101}e^{14} + \frac{50}{2101}\sqrt{427}e^{35}, \frac{225}{2101}\sqrt{2}e^{26},$ $\frac{25}{2101}\sqrt{2522}e^{16} + \frac{150}{2101}\sqrt{55}e^{23}$	$(\frac{325}{2101}, -\frac{150}{2101}, \frac{650}{2101}, \frac{300}{2101}, -\frac{625}{2101}, \frac{175}{2101}, \frac{25}{2101}, \frac{25}{2101}, \frac{500}{2101})$ $+ \frac{25}{2101}\sqrt{570}e^3 \otimes e_8 + \frac{575}{2101}\sqrt{6}e^1 \otimes e_4$	{234569, 345}
942:36	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{3}e^{12}, \frac{8}{35}\sqrt{3}e^{14} + \frac{4}{35}\sqrt{3}e^{35}, \frac{6}{35}e^{26},$ $\frac{2}{35}\sqrt{15}e^{16} + \frac{6}{35}\sqrt{5}e^{23}$	$(-\frac{4}{35}, \frac{1}{7}, -\frac{8}{35}, \frac{3}{35}, \frac{1}{5}, \frac{1}{35}, -\frac{1}{35}, \frac{6}{35}, -\frac{3}{35})$ $+ \frac{8}{35}\sqrt{3}e^2 \otimes e_7 + \frac{8}{35}\sqrt{3}e^4 \otimes e_9$	{2589, 4678}
942:36	$0, 0, 0, 0, 0, \frac{3}{37}\sqrt{10}e^{12}, \frac{9}{259}\sqrt{70}e^{14} + \frac{3}{37}\sqrt{10}e^{35}, \frac{1}{259}\sqrt{1974}e^{26},$ $\frac{3}{259}\sqrt{182}e^{16} + \frac{1}{259}\sqrt{7770}e^{23}$	$(\frac{2}{37}, -\frac{4}{37}, \frac{4}{37}, \frac{3}{37}, \frac{1}{37}, -\frac{2}{37}, \frac{5}{37}, -\frac{6}{37}, 0)$ $+ \frac{1}{259}\sqrt{4326}e^3 \otimes e_5 + \frac{1}{259}\sqrt{6342}e^4 \otimes e_9$	{1458, 259}
942:36	$0, 0, 0, 0, 0, \frac{1}{100}\sqrt{66}e^{12}, \frac{1}{100}\sqrt{138}e^{14} + \frac{1}{100}\sqrt{170}e^{35}, \frac{3}{100}\sqrt{30}e^{26},$ $\frac{9}{100}\sqrt{2}e^{16} + \frac{1}{50}\sqrt{38}e^{23}$	$(\frac{1}{25}, 0, \frac{2}{25}, -\frac{2}{25}, -\frac{3}{25}, \frac{25}{25}, -\frac{1}{25}, \frac{1}{25}, \frac{2}{25})$ $+ \frac{1}{50}\sqrt{78}e^3 \otimes e_8 + \frac{3}{100}\sqrt{46}e^2 \otimes e_7$	{2356, 3479}
942:36	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{145}e^{12}, \frac{1}{65}\sqrt{15}e^{14} + \frac{1}{65}\sqrt{235}e^{35}, \frac{1}{65}\sqrt{255}e^{26},$ $\frac{3}{65}\sqrt{5}e^{16} + \frac{1}{65}\sqrt{70}e^{23}$	$(-\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{2}{13}, 0, 0, \frac{1}{13}, -\frac{1}{13})$ $+ \frac{3}{65}\sqrt{30}e^5 \otimes e_8 + \frac{3}{65}\sqrt{35}e^2 \otimes e_7$	{1248, 4579}
942:36	$0, 0, 0, 0, 0, \frac{3}{182}\sqrt{30}e^{12}, \frac{3}{182}\sqrt{654}e^{14} + \frac{3}{182}\sqrt{30}e^{35}, \frac{3}{182}\sqrt{426}e^{26},$ $\frac{3}{182}\sqrt{534}e^{16} + \frac{3}{91}\sqrt{186}e^{23}$	$(\frac{3}{91}, \frac{12}{91}, \frac{6}{91}, -\frac{18}{91}, -\frac{3}{91}, \frac{15}{91}, -\frac{15}{91}, \frac{27}{91}, \frac{18}{91})$ $+ \frac{3}{182}\sqrt{1266}e^2 \otimes e_7 + \frac{3}{91}\sqrt{174}e^3 \otimes e_5$	{136789, 3479}
942:36	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{6}e^{14} + \frac{8}{29}\sqrt{2}e^{35}, \frac{6}{29}\sqrt{2}e^{26},$ $\frac{2}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{14}e^{23}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $- \frac{2}{29}\sqrt{42}e^5 \otimes e_9 + \frac{4}{29}\sqrt{15}e^2 \otimes e_7$	{12489, 15678, 269, 457}
942:36	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{6}e^{14} + \frac{8}{29}\sqrt{2}e^{35}, \frac{6}{29}\sqrt{2}e^{26},$ $\frac{2}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{14}e^{23}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^5 \otimes e_9 + \frac{4}{29}\sqrt{15}e^2 \otimes e_7$	{12489, 15678, 269, 457}
942:37	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{5}{34}\sqrt{14}e^{13} + \frac{15}{34}e^{45},$ $\frac{1}{34}\sqrt{410}e^{16} + \frac{1}{17}\sqrt{5}e^{34}, \frac{1}{17}\sqrt{55}e^{26} + \frac{1}{34}\sqrt{335}e^{35}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{595}e^5 \otimes e_8$	{23689, 579}
942:37	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{7}{34}\sqrt{5}e^{13} + \frac{15}{34}e^{45},$ $\frac{1}{34}\sqrt{185}e^{16} + \frac{1}{17}\sqrt{5}e^{34}, \frac{5}{34}\sqrt{15}e^{26} + \frac{1}{17}\sqrt{65}e^{35}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{595}e^2 \otimes e_7$	{123459, 146789}
942:37	$0, 0, 0, 0, 0, \frac{31}{1425}\sqrt{313}e^{12}, \frac{31}{1425}\sqrt{462}e^{13} + \frac{279}{475}e^{45},$ $\frac{124}{1425}\sqrt{19}e^{16} + \frac{31}{1425}\sqrt{881}e^{34}, \frac{31}{1425}\sqrt{970}e^{26} + \frac{62}{1425}\sqrt{61}e^{35}$	$(\frac{31}{95}, -\frac{403}{1425}, -\frac{31}{475}, \frac{124}{285}, -\frac{248}{1425}, \frac{62}{1425}, \frac{124}{475}, \frac{527}{1425}, -\frac{341}{1425})$ $+ \frac{31}{1425}\sqrt{2373}e^4 \otimes e_9$	{23456, 478}
942:38	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{2}e^{12}, \frac{4}{25}\sqrt{3}e^{13}, \frac{2}{25}\sqrt{15}e^{16} + \frac{1}{25}\sqrt{86}e^{23},$ $\frac{4}{25}\sqrt{7}e^{14} + \frac{4}{25}\sqrt{5}e^{26}$	$(-\frac{1}{25}, \frac{3}{25}, -\frac{2}{25}, \frac{6}{25}, -\frac{6}{25}, \frac{2}{25}, -\frac{3}{25}, \frac{1}{25}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{154}e^4 \otimes e_8 + \frac{1}{25}\sqrt{78}e^1 \otimes e_5$	{13789, 3568}
942:38	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{4}{25}\sqrt{5}e^{16} + \frac{2}{25}\sqrt{42}e^{23},$ $\frac{2}{25}\sqrt{33}e^{14} + \frac{2}{25}\sqrt{6}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{16}{25}e^3 \otimes e_9 + \frac{6}{25}\sqrt{3}e^5 \otimes e_8$	{2489, 4569}
942:38	$0, 0, 0, 0, 0, \frac{22}{1615}\sqrt{894}e^{12}, \frac{11}{1615}\sqrt{3486}e^{13},$ $\frac{22}{1615}\sqrt{753}e^{16} + \frac{11}{1615}\sqrt{3678}e^{23}, \frac{11}{1615}\sqrt{3678}e^{14} + \frac{66}{1615}\sqrt{47}e^{26}$	$(\frac{77}{1615}, -\frac{143}{1615}, \frac{154}{1615}, -\frac{286}{1615}, \frac{594}{1615}, -\frac{66}{1615}, \frac{231}{1615}, \frac{11}{1615}, -\frac{11}{85})$ $+ \frac{11}{1615}\sqrt{6126}e^1 \otimes e_4 + \frac{44}{1615}\sqrt{177}e^5 \otimes e_7$	{234678, 347}
942:38	$0, 0, 0, 0, 0, \frac{58}{3725}\sqrt{438}e^{12}, \frac{58}{3725}\sqrt{510}e^{13}, \frac{696}{3725}e^{16} + \frac{29}{3725}\sqrt{3558}e^{23},$ $\frac{522}{3725}\sqrt{13}e^{14} + \frac{29}{3725}\sqrt{1970}e^{26}$	$(-\frac{261}{3725}, \frac{319}{3725}, -\frac{522}{3725}, \frac{638}{3725}, \frac{1218}{3725}, \frac{58}{3725}, -\frac{783}{3725}, -\frac{203}{3725}, \frac{377}{3725})$ $+ \frac{29}{3725}\sqrt{5014}e^4 \otimes e_8 + \frac{87}{3725}\sqrt{218}e^5 \otimes e_9$	{13789, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:38	$0, 0, 0, 0, 0, \frac{3}{94}\sqrt{370}e^{12}, \frac{1}{47}\sqrt{555}e^{13}, \frac{1}{47}\sqrt{555}e^{16} + \frac{1}{94}\sqrt{4773}e^{23},$ $\frac{6}{47}\sqrt{74}e^{14} + \frac{3}{94}\sqrt{370}e^{26}$	$(\frac{3}{188}, \frac{23}{94}, \frac{3}{94}, \frac{23}{47}, -\frac{65}{94}, \frac{49}{188}, \frac{9}{188}, \frac{13}{47}, \frac{95}{188})$ $+ \frac{3}{94}\sqrt{1961}e^4 \otimes e_5$	{125689, 159, 2578, 567}
942:38	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{258}e^{12}, \frac{1}{47}\sqrt{330}e^{13}, \frac{12}{47}e^{16} + \frac{1}{47}\sqrt{318}e^{23},$ $\frac{12}{47}\sqrt{3}e^{14} + \frac{4}{47}\sqrt{26}e^{26}$	$(0, \frac{1}{47}, 0, \frac{2}{47}, -\frac{6}{47}, \frac{1}{47}, 0, \frac{1}{47}, \frac{2}{47})$ $+ \frac{3}{47}\sqrt{38}e^2 \otimes e_7 + \frac{8}{47}\sqrt{7}e^4 \otimes e_8$	{3568, 368}
942:38	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{42}e^{13}, \frac{1}{25}\sqrt{42}e^{16} + \frac{3}{25}\sqrt{14}e^{23},$ $\frac{2}{25}\sqrt{42}e^{14} + \frac{3}{25}\sqrt{42}e^{26}$	$(\frac{1}{25}, \frac{4}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{17}{25}, \frac{1}{5}, \frac{3}{25}, \frac{6}{25}, \frac{9}{25})$ $+ \frac{21}{25}\sqrt{2}e^2 \otimes e_5$	{123479, 13456789, 2346, 3458}
942:38	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{37}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{4}{25}\sqrt{11}e^{16} + \frac{2}{25}\sqrt{22}e^{23},$ $\frac{2}{25}\sqrt{31}e^{14} + \frac{2}{25}\sqrt{6}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{16}{25}e^1 \otimes e_4 + \frac{6}{25}\sqrt{3}e^5 \otimes e_8$	{234678, 3457}
942:38	$0, 0, 0, 0, 0, \frac{6}{1961}\sqrt{14910}e^{12}, \frac{10}{1961}\sqrt{1065}e^{13},$ $\frac{2}{1961}\sqrt{321630}e^{16} + \frac{2}{1961}\sqrt{71355}e^{23}, \frac{12}{1961}\sqrt{18105}e^{14} + \frac{24}{1961}\sqrt{3905}e^{26}$	$(\frac{117}{1961}, -\frac{143}{1961}, \frac{234}{1961}, -\frac{286}{1961}, 1, -\frac{26}{1961}, \frac{351}{1961}, \frac{91}{1961}, -\frac{169}{1961})$ $+ \frac{30}{1961}\sqrt{7739}e^5 \otimes e_9$	{1245678, 1457, 2489, 469}
942:38	$0, 0, 0, 0, 0, \frac{18}{655}\sqrt{273}e^{12}, \frac{9}{655}\sqrt{1446}e^{13}, \frac{9}{655}\sqrt{714}e^{16} + \frac{54}{655}\sqrt{70}e^{23},$ $\frac{54}{655}\sqrt{70}e^{14} + \frac{18}{655}\sqrt{453}e^{26}$	$(-\frac{63}{655}, \frac{117}{655}, -\frac{126}{655}, \frac{234}{655}, \frac{54}{655}, \frac{54}{655}, \frac{189}{655}, -\frac{9}{655}, \frac{171}{655})$ $+ \frac{9}{655}\sqrt{3606}e^4 \otimes e_8 + \frac{9}{655}\sqrt{6}e^5 \otimes e_7$	{13789, 3568}
942:38	$0, 0, 0, 0, 0, \frac{49}{5805}\sqrt{2030}e^{12}, \frac{98}{5805}\sqrt{485}e^{13},$ $\frac{49}{5805}\sqrt{2406}e^{16} + \frac{98}{5805}\sqrt{193}e^{23}, \frac{49}{5805}\sqrt{4326}e^{14} + \frac{98}{5805}\sqrt{282}e^{26}$	$(-\frac{49}{645}, \frac{539}{5805}, -\frac{98}{645}, \frac{1078}{5805}, \frac{3038}{5805}, \frac{98}{5805}, -\frac{49}{215}, -\frac{343}{5805}, \frac{637}{5805})$ $+ \frac{49}{5805}\sqrt{5534}e^4 \otimes e_7 + \frac{98}{5805}\sqrt{1282}e^5 \otimes e_9$	{2489, 469}
942:38	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{35}e^{12}, \frac{10}{119}\sqrt{57}e^{13}, \frac{4}{119}\sqrt{555}e^{16} + \frac{2}{119}\sqrt{2730}e^{23},$ $\frac{2}{119}\sqrt{705}e^{14} + \frac{6}{119}\sqrt{170}e^{26}$	$(-\frac{2}{119}, \frac{3}{119}, -\frac{4}{119}, \frac{6}{119}, 1, \frac{1}{119}, -\frac{6}{119}, -\frac{1}{119}, \frac{4}{119})$ $+ \frac{90}{119}\sqrt{3}e^5 \otimes e_8$	{1235679, 13789, 235, 368}
942:38	$0, 0, 0, 0, 0, \frac{15}{889}\sqrt{2}e^{12}, \frac{4}{889}\sqrt{195}e^{13}, \frac{4}{889}\sqrt{170}e^{16} + \frac{1}{889}\sqrt{1990}e^{23},$ $\frac{1}{889}\sqrt{710}e^{14} + \frac{3}{889}\sqrt{330}e^{26}$	$(-\frac{3}{889}, -\frac{4}{889}, -\frac{6}{889}, -\frac{8}{889}, \frac{9}{127}, \frac{1}{127}, -\frac{9}{889}, -\frac{10}{889}, -\frac{11}{889})$ $+ \frac{16}{889}\sqrt{15}e^2 \otimes e_7 + \frac{2}{889}\sqrt{1105}e^3 \otimes e_9$	{24589, 2489}
942:38	$0, 0, 0, 0, 0, \frac{31}{2501}\sqrt{1822}e^{12}, \frac{186}{2501}\sqrt{43}e^{13},$ $\frac{62}{2501}\sqrt{401}e^{16} + \frac{31}{2501}\sqrt{1358}e^{23}, \frac{93}{2501}\sqrt{190}e^{14} + \frac{31}{2501}\sqrt{654}e^{26}$	$(\frac{341}{2501}, -\frac{310}{2501}, \frac{682}{2501}, -\frac{620}{2501}, -\frac{279}{2501}, \frac{31}{2501}, \frac{1023}{2501}, \frac{372}{2501}, -\frac{279}{2501})$ $+ \frac{124}{2501}\sqrt{66}e^3 \otimes e_5 + \frac{62}{2501}\sqrt{862}e^1 \otimes e_4$	{234678, 347}
942:38	$0, 0, 0, 0, 0, \frac{87}{5069}\sqrt{354}e^{12}, \frac{58}{5069}\sqrt{402}e^{13},$ $\frac{58}{5069}\sqrt{842}e^{16} + \frac{29}{5069}\sqrt{3758}e^{23}, \frac{29}{5069}\sqrt{4846}e^{14} + \frac{29}{5069}\sqrt{546}e^{26}$	$(\frac{377}{5069}, -\frac{232}{5069}, \frac{754}{5069}, -\frac{464}{5069}, -\frac{1305}{5069}, \frac{145}{5069}, \frac{1131}{5069}, \frac{522}{5069}, -\frac{87}{5069})$ $+ \frac{232}{5069}\sqrt{51}e^4 \otimes e_5 + \frac{58}{5069}\sqrt{1555}e^3 \otimes e_9$	{2489, 469}
942:38	$0, 0, 0, 0, 0, \frac{4}{643}\sqrt{790}e^{12}, \frac{20}{643}\sqrt{1106}e^{13},$ $\frac{2}{643}\sqrt{16195}e^{16} + \frac{2}{643}\sqrt{29230}e^{23}, \frac{2}{643}\sqrt{29230}e^{14} + \frac{6}{643}\sqrt{4345}e^{26}$	$(-\frac{49}{643}, \frac{91}{643}, -\frac{98}{643}, \frac{182}{643}, 1, \frac{42}{643}, -\frac{147}{643}, -\frac{7}{643}, \frac{133}{643})$ $+ \frac{10}{643}\sqrt{8453}e^5 \otimes e_7$	{123568, 135, 23789, 3679}
942:38	$0, 0, 0, 0, 0, \frac{3}{79}\sqrt{210}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{8}{79}\sqrt{35}e^{16} + \frac{1}{79}\sqrt{2310}e^{23},$ $\frac{1}{79}\sqrt{2310}e^{14} + \frac{5}{79}\sqrt{42}e^{26}$	$(\frac{11}{79}, -\frac{12}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{9}{79}, -\frac{1}{79}, \frac{33}{79}, \frac{10}{79}, -\frac{13}{79})$ $+ \frac{70}{79}e^3 \otimes e_9$	{24589, 2489, 4569, 469}
942:38	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{330}e^{12}, \frac{2}{43}\sqrt{105}e^{13}, \frac{10}{43}\sqrt{3}e^{16} + \frac{1}{43}\sqrt{330}e^{23},$ $\frac{1}{43}\sqrt{330}e^{14} + \frac{3}{43}\sqrt{10}e^{26}$	$(-\frac{1}{43}, \frac{6}{43}, -\frac{2}{43}, \frac{12}{43}, -\frac{17}{43}, \frac{5}{43}, -\frac{3}{43}, \frac{4}{43}, \frac{11}{43})$ $+ \frac{10}{43}\sqrt{6}e^3 \otimes e_5 + \frac{10}{43}\sqrt{6}e^4 \otimes e_7$	{1256789, 1579}
942:38	$0, 0, 0, 0, 0, \frac{43}{4965}\sqrt{762}e^{12}, \frac{86}{4965}\sqrt{589}e^{13},$ $\frac{43}{4965}\sqrt{890}e^{16} + \frac{86}{4965}\sqrt{223}e^{23}, \frac{43}{4965}\sqrt{2102}e^{14} + \frac{344}{4965}\sqrt{6}e^{26}$	$(-\frac{43}{1655}, \frac{731}{1655}, -\frac{86}{4965}, \frac{1462}{4965}, -\frac{1978}{4965}, \frac{602}{4965}, -\frac{129}{1655}, \frac{473}{4965}, \frac{1333}{4965})$ $+ \frac{43}{4965}\sqrt{4078}e^4 \otimes e_7 + \frac{86}{4965}\sqrt{1226}e^1 \otimes e_5$	{12348, 1346}
942:38	$0, 0, 0, 0, 0, \frac{38}{2281}\sqrt{386}e^{12}, \frac{38}{2281}\sqrt{569}e^{13},$ $\frac{38}{2281}\sqrt{366}e^{16} + \frac{38}{2281}\sqrt{3}e^{23}, \frac{76}{2281}\sqrt{47}e^{14} + \frac{152}{2281}\sqrt{59}e^{26}$	$(-\frac{171}{2281}, \frac{209}{2281}, -\frac{342}{2281}, \frac{418}{2281}, \frac{969}{2281}, \frac{38}{2281}, -\frac{513}{2281}, -\frac{133}{2281}, \frac{247}{2281})$ $+ \frac{152}{2281}\sqrt{82}e^2 \otimes e_7 + \frac{38}{2281}\sqrt{739}e^5 \otimes e_9$	{12349, 34578}
942:38	$0, 0, 0, 0, 0, \frac{78}{953}\sqrt{15}e^{12}, \frac{130}{953}\sqrt{3}e^{13}, \frac{13}{953}\sqrt{93}e^{16} + \frac{26}{953}\sqrt{277}e^{23},$ $\frac{13}{953}\sqrt{917}e^{14} + \frac{13}{953}\sqrt{671}e^{26}$	$(-\frac{65}{1906}, \frac{104}{953}, -\frac{65}{953}, \frac{208}{953}, -\frac{234}{953}, \frac{143}{953}, \frac{1906}{953}, -\frac{195}{953}, \frac{39}{953}, \frac{351}{1906})$ $+ \frac{13}{953}\sqrt{573}e^3 \otimes e_5 + \frac{26}{953}\sqrt{307}e^4 \otimes e_8$	{13789, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:38	$0, 0, 0, 0, 0, \frac{3}{997}\sqrt{38110}e^{12}, \frac{1}{997}\sqrt{418470}e^{13},$ $\frac{4}{997}\sqrt{9435}e^{16} + \frac{1}{997}\sqrt{12210}e^{23}, \frac{148}{997}\sqrt{15}e^{14} + \frac{120}{997}\sqrt{37}e^{26}$	$(-\frac{112}{997}, \frac{219}{997}, -\frac{224}{997}, \frac{438}{997}, \frac{142}{997}, \frac{107}{997}, -\frac{336}{997}, -\frac{5}{997}, \frac{326}{997})$ $+ \frac{15}{997}\sqrt{4218}e^2 \otimes e_7$	{1456789, 146789, 2456, 246}
942:38	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{6}e^{16} + \frac{1}{10}\sqrt{30}e^{23},$ $\frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{26}$	$(-\frac{1}{10}, \frac{3}{20}, -\frac{1}{5}, \frac{3}{10}, \frac{11}{20}, \frac{1}{20}, -\frac{3}{10}, -\frac{1}{20}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{6}e^4 \otimes e_7 + \frac{3}{10}\sqrt{6}e^5 \otimes e_8$	{2357, 3678}
942:38	$0, 0, 0, 0, 0, \frac{11}{1671}\sqrt{894}e^{12}, \frac{22}{1671}\sqrt{915}e^{13},$ $\frac{22}{1671}\sqrt{462}e^{16} + \frac{11}{557}\sqrt{170}e^{23}, \frac{11}{557}\sqrt{170}e^{14} + \frac{11}{1671}\sqrt{2730}e^{26}$	$(-\frac{55}{1671}, \frac{66}{557}, -\frac{110}{1671}, \frac{132}{557}, -\frac{473}{1671}, \frac{143}{557}, -\frac{55}{1671}, \frac{88}{557}, \frac{341}{1671})$ $+ \frac{22}{1671}\sqrt{1374}e^2 \otimes e_7 + \frac{22}{1671}\sqrt{921}e^3 \otimes e_5$	{12349, 3478}
942:38	$0, 0, 0, 0, 0, \frac{110}{593}\sqrt{6}e^{12}, \frac{2}{593}\sqrt{24090}e^{13},$ $\frac{12}{593}\sqrt{330}e^{16} + \frac{2}{593}\sqrt{41910}e^{23}, \frac{2}{593}\sqrt{41910}e^{14} + \frac{4}{593}\sqrt{7535}e^{26}$	$(-\frac{57}{593}, \frac{106}{593}, -\frac{114}{593}, \frac{212}{593}, \frac{48}{593}, \frac{49}{593}, -\frac{171}{593}, -\frac{8}{593}, \frac{155}{593})$ $+ \frac{10}{593}\sqrt{2398}e^4 \otimes e_8$	{135789, 13789, 3568, 368}
942:38	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{555}e^{13}, \frac{10}{119}\sqrt{57}e^{16} + \frac{2}{119}\sqrt{705}e^{23},$ $\frac{2}{119}\sqrt{2730}e^{14} + \frac{6}{119}\sqrt{35}e^{26}$	$(-\frac{31}{238}, \frac{21}{68}, -\frac{31}{119}, \frac{21}{68}, \frac{71}{476}, \frac{5}{28}, -\frac{93}{238}, \frac{23}{476}, \frac{58}{119})$ $+ \frac{90}{119}\sqrt{3}e^4 \otimes e_7$	{1256789, 126789, 1579, 179}
942:38	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{238}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{2}{35}\sqrt{35}e^{16} + \frac{3}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{182}e^{14} + \frac{3}{35}\sqrt{14}e^{26}$	$(\frac{3}{35}, -\frac{2}{35}, \frac{6}{35}, -\frac{4}{35}, -\frac{9}{35}, \frac{9}{35}, \frac{9}{35}, \frac{4}{35}, -\frac{1}{35})$ $+ \frac{2}{35}\sqrt{42}e^2 \otimes e_5 + \frac{2}{35}\sqrt{70}e^1 \otimes e_4$	{234678, 3457}
942:38	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{246}e^{12}, \frac{1}{365}\sqrt{42}e^{13}, \frac{1}{365}\sqrt{82}e^{16} + \frac{2}{365}\sqrt{102}e^{23},$ $\frac{2}{365}\sqrt{102}e^{14} + \frac{2}{365}\sqrt{31}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, -\frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{1}{365}\sqrt{326}e^3 \otimes e_9 + \frac{4}{365}\sqrt{23}e^4 \otimes e_8$	{125689, 12689}
942:38	$0, 0, 0, 0, 0, \frac{11}{1615}\sqrt{102}e^{12}, \frac{11}{1615}\sqrt{3486}e^{13},$ $\frac{33}{1615}\sqrt{346}e^{16} + \frac{132}{1615}\sqrt{17}e^{23}, \frac{132}{1615}\sqrt{17}e^{14} + \frac{66}{1615}\sqrt{47}e^{26}$	$(\frac{77}{1615}, -\frac{143}{1615}, \frac{154}{1615}, -\frac{286}{1615}, \frac{594}{1615}, -\frac{66}{1615}, \frac{231}{1615}, \frac{11}{85}, -\frac{11}{85})$ $+ \frac{11}{1615}\sqrt{6126}e^3 \otimes e_9 + \frac{44}{1615}\sqrt{177}e^5 \otimes e_7$	{24589, 4569}
942:38	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{555}e^{13}, \frac{10}{119}\sqrt{57}e^{16} + \frac{2}{119}\sqrt{2730}e^{23},$ $\frac{2}{119}\sqrt{705}e^{14} + \frac{6}{119}\sqrt{35}e^{26}$	$(\frac{73}{476}, \frac{3}{119}, \frac{73}{238}, \frac{6}{119}, \frac{167}{238}, \frac{5}{28}, \frac{219}{476}, \frac{79}{238}, \frac{97}{476})$ $+ \frac{90}{119}\sqrt{3}e^3 \otimes e_5$	{1256789, 1579, 258, 56}
942:38	$0, 0, 0, 0, 0, \frac{87}{2645}\sqrt{70}e^{12}, \frac{29}{2645}\sqrt{1374}e^{13},$ $\frac{29}{2645}\sqrt{842}e^{16} + \frac{116}{2645}\sqrt{66}e^{23}, \frac{348}{2645}\sqrt{11}e^{14} + \frac{58}{2645}\sqrt{159}e^{26}$	$(\frac{319}{2645}, -\frac{261}{2645}, \frac{638}{2645}, -\frac{522}{2645}, -\frac{522}{2645}, \frac{58}{2645}, \frac{957}{2645}, \frac{377}{2645}, -\frac{203}{2645})$ $+ \frac{29}{2645}\sqrt{3166}e^3 \otimes e_9 + \frac{348}{2645}\sqrt{11}e^1 \otimes e_5$	{24589, 4569}
942:38	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1110}e^{12}, \frac{2}{73}\sqrt{370}e^{13}, \frac{2}{73}\sqrt{185}e^{16} + \frac{1}{73}\sqrt{222}e^{23},$ $\frac{3}{73}\sqrt{74}e^{14} + \frac{5}{73}\sqrt{74}e^{26}$	$(-\frac{7}{73}, \frac{16}{73}, -\frac{14}{73}, \frac{32}{73}, -\frac{5}{73}, \frac{9}{73}, -\frac{21}{73}, \frac{2}{73}, \frac{25}{73})$ $+ \frac{10}{73}\sqrt{37}e^2 \otimes e_7 + \frac{2}{73}\sqrt{259}e^4 \otimes e_5$	{12349, 3478}
942:38	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{246}e^{12}, \frac{3}{365}\sqrt{26}e^{13}, \frac{1}{365}\sqrt{266}e^{16} + \frac{4}{365}\sqrt{14}e^{23},$ $\frac{2}{365}\sqrt{79}e^{14} + \frac{2}{365}\sqrt{15}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, \frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{1}{365}\sqrt{418}e^3 \otimes e_9 + \frac{2}{365}\sqrt{69}e^4 \otimes e_7$	{24589, 2489, 4569, 469}
942:38	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{246}e^{12}, \frac{3}{365}\sqrt{26}e^{13}, \frac{1}{365}\sqrt{266}e^{16} + \frac{4}{365}\sqrt{14}e^{23},$ $\frac{2}{365}\sqrt{79}e^{14} + \frac{2}{365}\sqrt{15}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, \frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{1}{365}\sqrt{418}e^3 \otimes e_9 - \frac{2}{365}\sqrt{69}e^4 \otimes e_7$	{24589, 2489, 4569, 469}
942:38	$0, 0, 0, 0, 0, \frac{62}{2285}\sqrt{514}e^{12}, \frac{31}{2285}\sqrt{1182}e^{13},$ $\frac{62}{2285}\sqrt{437}e^{16} + \frac{31}{2285}\sqrt{1806}e^{23}, \frac{31}{2285}\sqrt{1598}e^{14} + \frac{62}{2285}\sqrt{231}e^{26}$	$(\frac{279}{2285}, -\frac{341}{2285}, \frac{558}{2285}, -\frac{682}{2285}, \frac{558}{2285}, -\frac{62}{2285}, \frac{837}{2285}, \frac{217}{2285}, -\frac{403}{2285})$ $+ \frac{124}{2285}\sqrt{39}e^5 \otimes e_9 + \frac{31}{2285}\sqrt{3454}e^1 \otimes e_4$	{2345678, 3457}
942:38	$0, 0, 0, 0, 0, \frac{90}{2021}\sqrt{265}e^{12}, \frac{2}{2021}\sqrt{267915}e^{13},$ $\frac{52}{2021}\sqrt{795}e^{16} + \frac{6}{2021}\sqrt{40015}e^{23}, \frac{31}{2021}\sqrt{5565}e^{14} + \frac{6}{2021}\sqrt{265}e^{26}$	$(\frac{221}{2021}, \frac{107}{2021}, \frac{442}{2021}, \frac{214}{2021}, -\frac{1369}{2021}, \frac{328}{2021}, \frac{663}{2021}, \frac{549}{2021}, \frac{435}{2021})$ $+ \frac{30}{2021}\sqrt{5989}e^1 \otimes e_5$	{12348, 1346, 23456789, 34579}
942:38	$0, 0, 0, 0, 0, \frac{1}{889}\sqrt{3970}e^{12}, \frac{4}{889}\sqrt{195}e^{13}, \frac{10}{889}\sqrt{17}e^{16} + \frac{9}{889}\sqrt{30}e^{23},$ $\frac{1}{889}\sqrt{3710}e^{14} + \frac{3}{889}\sqrt{330}e^{26}$	$(-\frac{3}{889}, -\frac{4}{889}, -\frac{6}{889}, -\frac{8}{889}, \frac{9}{127}, -\frac{1}{127}, -\frac{9}{889}, -\frac{10}{889}, -\frac{11}{889})$ $+ \frac{16}{889}\sqrt{15}e^2 \otimes e_7 + \frac{2}{889}\sqrt{1105}e^1 \otimes e_4$	{3457, 347}
942:38	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{3010}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{2}{79}\sqrt{665}e^{16} + \frac{1}{79}\sqrt{2590}e^{23},$ $\frac{1}{79}\sqrt{2590}e^{14} + \frac{5}{79}\sqrt{42}e^{26}$	$(\frac{11}{79}, -\frac{12}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{9}{79}, -\frac{1}{79}, \frac{33}{79}, \frac{10}{79}, -\frac{13}{79})$ $+ \frac{70}{79}e^1 \otimes e_4$	{2345678, 234678, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:38	$0, 0, 0, 0, 0, \frac{11}{205} \sqrt{42}e^{12}, \frac{11}{205} \sqrt{46}e^{13}, \frac{11}{41} \sqrt{2}e^{16} + \frac{11}{205} \sqrt{46}e^{23},$ $\frac{44}{205} \sqrt{2}e^{14} + \frac{11}{205} \sqrt{74}e^{26}$	$(-\frac{11}{205}, \frac{44}{205}, -\frac{22}{205}, \frac{88}{205}, -\frac{77}{205}, \frac{33}{205}, -\frac{33}{205}, \frac{22}{205}, \frac{77}{205})$ $+ \frac{11}{205} \sqrt{202}e^2 \otimes e_5 + \frac{44}{205} \sqrt{10}e^4 \otimes e_7$	{2367, 3578}
942:38	$0, 0, 0, 0, 0, \frac{1}{35} \sqrt{42}e^{12}, \frac{2}{35} \sqrt{21}e^{13}, \frac{2}{35} \sqrt{35}e^{16} + \frac{1}{35} \sqrt{154}e^{23},$ $\frac{1}{5} \sqrt{2}e^{14} + \frac{3}{35} \sqrt{14}e^{26}$	$(\frac{3}{35}, -\frac{2}{35}, \frac{6}{35}, -\frac{4}{35}, -\frac{9}{35}, \frac{1}{35}, \frac{9}{35}, \frac{4}{35}, -\frac{1}{35})$ $+ \frac{2}{35} \sqrt{42}e^2 \otimes e_5 + \frac{2}{35} \sqrt{70}e^3 \otimes e_9$	{2489, 4569}
942:38	$0, 0, 0, 0, 0, \frac{32}{2099} \sqrt{683}e^{12}, \frac{64}{2099} \sqrt{154}e^{13},$ $\frac{32}{2099} \sqrt{134}e^{16} + \frac{32}{2099} \sqrt{239}e^{23}, \frac{32}{2099} \sqrt{327}e^{14} + \frac{32}{2099} \sqrt{574}e^{26}$	$(-\frac{80}{2099}, \frac{272}{2099}, -\frac{160}{2099}, \frac{544}{2099}, -\frac{592}{2099}, \frac{192}{2099}, -\frac{240}{2099}, \frac{112}{2099}, \frac{464}{2099})$ $+ \frac{32}{2099} \sqrt{1073}e^2 \otimes e_7 + \frac{32}{2099} \sqrt{809}e^1 \otimes e_5$	{123489, 3457}
942:38	$0, 0, 0, 0, 0, \frac{26}{545} \sqrt{33}e^{12}, \frac{13}{545} \sqrt{321}e^{13}, \frac{39}{545} \sqrt{15}e^{16} + \frac{26}{545} \sqrt{141}e^{23},$ $\frac{13}{545} \sqrt{483}e^{14} + \frac{26}{545} \sqrt{71}e^{26}$	$(-\frac{39}{545}, \frac{91}{545}, -\frac{78}{545}, \frac{182}{545}, -\frac{78}{545}, \frac{52}{545}, -\frac{117}{545}, \frac{13}{545}, \frac{143}{545})$ $+ \frac{117}{545} \sqrt{3}e^2 \otimes e_5 + \frac{26}{545} \sqrt{190}e^4 \otimes e_8$	{135789, 3568}
942:39	$0, 0, 0, 0, 0, \frac{2}{89} \sqrt{946}e^{12}, \frac{6}{89} \sqrt{86}e^{13}, \frac{1}{89} \sqrt{4085}e^{16} - \frac{1}{89} \sqrt{2795}e^{24},$ $\frac{1}{89} \sqrt{2193}e^{14} + \frac{1}{89} \sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $+ \frac{4}{89} \sqrt{430}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349, 12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:39	$0, 0, 0, 0, 0, \frac{2}{89} \sqrt{946}e^{12}, \frac{6}{89} \sqrt{86}e^{13}, \frac{1}{89} \sqrt{4085}e^{16} + \frac{1}{89} \sqrt{2795}e^{24},$ $\frac{1}{89} \sqrt{2193}e^{14} + \frac{1}{89} \sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $+ \frac{4}{89} \sqrt{430}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349, 12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:39	$0, 0, 0, 0, 0, \frac{6}{271} \sqrt{899}e^{12}, \frac{12}{271} \sqrt{58}e^{13}, \frac{3}{271} \sqrt{2813}e^{16} - \frac{3}{271} \sqrt{6235}e^{24},$ $\frac{3}{271} \sqrt{5771}e^{14} + \frac{3}{271} \sqrt{29}e^{26}$	$(\frac{32}{271}, \frac{32}{271}, \frac{21}{271}, \frac{64}{271}, -\frac{197}{271}, \frac{64}{271}, \frac{53}{271}, \frac{96}{271}, \frac{96}{271})$ $+ \frac{18}{271} \sqrt{377}e^4 \otimes e_5$	{1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56, 1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56}
942:39	$0, 0, 0, 0, 0, \frac{6}{271} \sqrt{899}e^{12}, \frac{12}{271} \sqrt{58}e^{13}, \frac{3}{271} \sqrt{2813}e^{16} + \frac{3}{271} \sqrt{6235}e^{24},$ $\frac{3}{271} \sqrt{5771}e^{14} + \frac{3}{271} \sqrt{29}e^{26}$	$(\frac{32}{271}, \frac{32}{271}, \frac{21}{271}, \frac{64}{271}, -\frac{197}{271}, \frac{64}{271}, \frac{53}{271}, \frac{96}{271}, \frac{96}{271})$ $+ \frac{18}{271} \sqrt{377}e^4 \otimes e_5$	{1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56, 1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56}
942:39	$0, 0, 0, 0, 0, \frac{2}{569} \sqrt{21390}e^{12}, \frac{12}{569} \sqrt{2415}e^{13},$ $\frac{6}{569} \sqrt{2990}e^{16} - \frac{2}{569} \sqrt{27255}e^{24}, \frac{2}{569} \sqrt{16215}e^{14} + \frac{24}{569} \sqrt{115}e^{26}$	$(\frac{33}{569}, \frac{33}{569}, \frac{317}{569}, \frac{66}{569}, -\frac{373}{569}, \frac{66}{569}, \frac{350}{569}, \frac{99}{569}, \frac{99}{569})$ $+ \frac{6}{569} \sqrt{18055}e^3 \otimes e_5$	{12368, 125678, 13, 157, 23789, 2589, 3679, 569, 12368, 125678, 13, 157, 23789, 2589, 3679, 569}
942:39	$0, 0, 0, 0, 0, \frac{2}{569} \sqrt{21390}e^{12}, \frac{12}{569} \sqrt{2415}e^{13},$ $\frac{6}{569} \sqrt{2990}e^{16} + \frac{2}{569} \sqrt{27255}e^{24}, \frac{2}{569} \sqrt{16215}e^{14} + \frac{24}{569} \sqrt{115}e^{26}$	$(\frac{33}{569}, \frac{33}{569}, \frac{317}{569}, \frac{66}{569}, -\frac{373}{569}, \frac{66}{569}, \frac{350}{569}, \frac{99}{569}, \frac{99}{569})$ $+ \frac{6}{569} \sqrt{18055}e^3 \otimes e_5$	{12368, 125678, 13, 157, 23789, 2589, 3679, 569, 12368, 125678, 13, 157, 23789, 2589, 3679, 569}
942:39	$0, 0, 0, 0, 0, \frac{1}{15} \sqrt{10}e^{12}, \frac{1}{15} \sqrt{35}e^{13}, \frac{1}{6} \sqrt{6}e^{16} - \frac{1}{30} \sqrt{70}e^{24},$ $\frac{1}{30} \sqrt{10}e^{14} + \frac{1}{6} \sqrt{2}e^{26}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{15} \sqrt{65}e^1 \otimes e_5 + \frac{1}{15} \sqrt{70}e^3 \otimes e_8$	{1278, 136, 25689, 3579, 1278, 136, 25689, 3579}
942:39	$0, 0, 0, 0, 0, \frac{1}{15} \sqrt{10}e^{12}, \frac{1}{15} \sqrt{35}e^{13}, \frac{1}{6} \sqrt{6}e^{16} + \frac{1}{30} \sqrt{70}e^{24},$ $\frac{1}{30} \sqrt{10}e^{14} + \frac{1}{6} \sqrt{2}e^{26}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{15} \sqrt{65}e^1 \otimes e_5 + \frac{1}{15} \sqrt{70}e^3 \otimes e_8$	{1278, 136, 25689, 3579, 1278, 136, 25689, 3579}
942:39	$0, 0, 0, 0, 0, \frac{1}{365} \sqrt{246}e^{12}, \frac{1}{365} \sqrt{346}e^{13}, \frac{1}{365} \sqrt{113}e^{16} - \frac{1}{365} \sqrt{377}e^{24},$ $\frac{1}{365} \sqrt{51}e^{14} + \frac{1}{365} \sqrt{93}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, -\frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{2}{365} \sqrt{97}e^4 \otimes e_7 + \frac{3}{365} \sqrt{34}e^3 \otimes e_8$	{1256789, 126789, 3567, 367, 1256789, 126789, 3567, 367}
942:39	$0, 0, 0, 0, 0, \frac{1}{365} \sqrt{246}e^{12}, \frac{1}{365} \sqrt{346}e^{13}, \frac{1}{365} \sqrt{113}e^{16} + \frac{1}{365} \sqrt{377}e^{24},$ $\frac{1}{365} \sqrt{51}e^{14} + \frac{1}{365} \sqrt{93}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, -\frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{2}{365} \sqrt{97}e^4 \otimes e_7 + \frac{3}{365} \sqrt{34}e^3 \otimes e_8$	{1256789, 126789, 3567, 367, 1256789, 126789, 3567, 367}
942:39	$0, 0, 0, 0, 0, \frac{6}{289} \sqrt{286}e^{12}, \frac{12}{289} \sqrt{187}e^{13}, \frac{3}{289} \sqrt{1595}e^{16} - \frac{3}{289} \sqrt{2101}e^{24},$ $\frac{3}{289} \sqrt{2167}e^{14} + \frac{27}{289} \sqrt{33}e^{26}$	$(\frac{20}{289}, \frac{20}{289}, -\frac{99}{289}, \frac{40}{289}, \frac{37}{289}, \frac{40}{289}, -\frac{79}{289}, \frac{60}{289}, \frac{60}{289})$ $+ \frac{18}{289} \sqrt{154}e^2 \otimes e_7$	{123459, 12349, 1456789, 146789, 2456, 246, 34578, 3478, 123459, 12349, 1456789, 146789, 2456, 246, 34578, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:39	$0, 0, 0, 0, 0, \frac{6}{289}\sqrt{286}e^{12}, \frac{12}{289}\sqrt{187}e^{13}, \frac{3}{289}\sqrt{1595}e^{16} + \frac{3}{289}\sqrt{2101}e^{24},$ $\frac{3}{289}\sqrt{2167}e^{14} + \frac{2}{289}\sqrt{33}e^{26}$	$(\frac{20}{289}, \frac{20}{289}, -\frac{99}{289}, \frac{40}{289}, \frac{37}{289}, \frac{40}{289}, -\frac{79}{289}, \frac{60}{289}, \frac{60}{289})$ $+ \frac{18}{289}\sqrt{154}e^2 \otimes e_7$	{123459, 12349, 1456789, 146789, 2456, 246, 34578, 3478, 123459, 12349, 1456789, 146789, 2456, 246, 34578, 3478}
942:39	$0, 0, 0, 0, 0, \frac{34}{779}\sqrt{106}e^{12}, \frac{204}{779}\sqrt{3}e^{13}, \frac{17}{779}\sqrt{497}e^{16} - \frac{17}{779}\sqrt{215}e^{24},$ $\frac{17}{779}\sqrt{501}e^{14} + \frac{17}{779}\sqrt{219}e^{26}$	$(\frac{68}{779}, \frac{68}{779}, -\frac{221}{779}, \frac{136}{779}, -\frac{153}{779}, \frac{136}{779}, -\frac{153}{779}, \frac{204}{779}, \frac{204}{779})$ $+ \frac{170}{779}\sqrt{10}e^1 \otimes e_3 + \frac{204}{779}\sqrt{3}e^4 \otimes e_5$	{1248, 146, 234689, 349, 1248, 146, 234689, 349}
942:39	$0, 0, 0, 0, 0, \frac{34}{779}\sqrt{106}e^{12}, \frac{204}{779}\sqrt{3}e^{13}, \frac{17}{779}\sqrt{497}e^{16} + \frac{17}{779}\sqrt{215}e^{24},$ $\frac{17}{779}\sqrt{501}e^{14} + \frac{17}{779}\sqrt{219}e^{26}$	$(\frac{68}{779}, \frac{68}{779}, -\frac{221}{779}, \frac{136}{779}, -\frac{153}{779}, \frac{136}{779}, -\frac{153}{779}, \frac{204}{779}, \frac{204}{779})$ $+ \frac{170}{779}\sqrt{10}e^1 \otimes e_3 + \frac{204}{779}\sqrt{3}e^4 \otimes e_5$	{1248, 146, 234689, 349, 1248, 146, 234689, 349}
942:39	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{2}e^{12}, \frac{5}{47}\sqrt{2}e^{13}, \frac{5}{47}\sqrt{58}e^{16} - \frac{5}{47}\sqrt{58}e^{24},$ $\frac{10}{47}\sqrt{5}e^{14} + \frac{5}{47}\sqrt{22}e^{26}$	$(-\frac{1}{47}, -\frac{1}{47}, \frac{8}{47}, -\frac{2}{47}, 1, -\frac{2}{47}, \frac{7}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{158}e^5 \otimes e_8$	{12345679, 124569, 134789, 1489, 2345, 2457, 3468, 4678, 12345679, 124569, 134789, 1489, 2345, 2457, 3468, 4678}
942:39	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{2}e^{12}, \frac{5}{47}\sqrt{2}e^{13}, \frac{5}{47}\sqrt{58}e^{16} + \frac{5}{47}\sqrt{58}e^{24},$ $\frac{10}{47}\sqrt{5}e^{14} + \frac{5}{47}\sqrt{22}e^{26}$	$(-\frac{1}{47}, -\frac{1}{47}, \frac{8}{47}, -\frac{2}{47}, 1, -\frac{2}{47}, \frac{7}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{158}e^5 \otimes e_8$	{12345679, 124569, 134789, 1489, 2345, 2457, 3468, 4678, 12345679, 124569, 134789, 1489, 2345, 2457, 3468, 4678}
942:39	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{14}e^{12}, \frac{2}{25}\sqrt{33}e^{13}, \frac{1}{25}\sqrt{42}e^{16} - \frac{1}{25}\sqrt{102}e^{24},$ $\frac{1}{25}\sqrt{102}e^{14} + \frac{1}{25}\sqrt{42}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{33}e^1 \otimes e_5 + \frac{2}{25}\sqrt{58}e^4 \otimes e_7$	{126789, 179, 23578, 3567, 126789, 179, 23578, 3567}
942:39	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{14}e^{12}, \frac{2}{25}\sqrt{33}e^{13}, \frac{1}{25}\sqrt{42}e^{16} + \frac{1}{25}\sqrt{102}e^{24},$ $\frac{1}{25}\sqrt{102}e^{14} + \frac{1}{25}\sqrt{42}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{33}e^1 \otimes e_5 + \frac{2}{25}\sqrt{58}e^4 \otimes e_7$	{126789, 179, 23578, 3567, 126789, 179, 23578, 3567}
942:39	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{1}{73}\sqrt{627}e^{16} - \frac{3}{73}\sqrt{190}e^{24},$ $\frac{1}{73}\sqrt{1995}e^{14} + \frac{9}{73}\sqrt{38}e^{26}$	$(\frac{7}{73}, \frac{7}{73}, \frac{8}{73}, \frac{14}{73}, -\frac{50}{73}, \frac{14}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+ \frac{3}{73}\sqrt{779}e^2 \otimes e_5$	{12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458, 12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458}
942:39	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{1}{73}\sqrt{627}e^{16} + \frac{3}{73}\sqrt{190}e^{24},$ $\frac{1}{73}\sqrt{1995}e^{14} + \frac{9}{73}\sqrt{38}e^{26}$	$(\frac{7}{73}, \frac{7}{73}, \frac{8}{73}, \frac{14}{73}, -\frac{50}{73}, \frac{14}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+ \frac{3}{73}\sqrt{779}e^2 \otimes e_5$	{12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458, 12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458}
942:39	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{4}{63}\sqrt{42}e^{13}, \frac{1}{63}\sqrt{21}e^{16} - \frac{1}{63}\sqrt{1155}e^{24},$ $\frac{1}{9}\sqrt{3}e^{14} + \frac{1}{63}\sqrt{357}e^{26}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{2}{63}\sqrt{273}e^4 \otimes e_5 + \frac{8}{63}\sqrt{21}e^3 \otimes e_8$	{1256789, 1359, 258, 3567, 1256789, 1359, 258, 3567}
942:39	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{4}{63}\sqrt{42}e^{13}, \frac{1}{63}\sqrt{21}e^{16} + \frac{1}{63}\sqrt{1155}e^{24},$ $\frac{1}{9}\sqrt{3}e^{14} + \frac{1}{63}\sqrt{357}e^{26}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{2}{63}\sqrt{273}e^4 \otimes e_5 + \frac{8}{63}\sqrt{21}e^3 \otimes e_8$	{1256789, 1359, 258, 3567, 1256789, 1359, 258, 3567}
942:39	$0, 0, 0, 0, 0, \frac{26}{1609}\sqrt{61}e^{12}, \frac{13}{1609}\sqrt{1542}e^{13},$ $\frac{39}{1609}\sqrt{85}e^{16} - \frac{117}{1609}\sqrt{11}e^{24}, \frac{13}{1609}\sqrt{887}e^{14} + \frac{13}{1609}\sqrt{1013}e^{26}$	$(\frac{65}{1609}, \frac{65}{1609}, -\frac{169}{1609}, \frac{130}{1609}, -\frac{338}{1609}, \frac{130}{1609}, -\frac{104}{1609}, \frac{195}{1609}, \frac{195}{1609})$ $+ \frac{13}{1609}\sqrt{2014}e^2 \otimes e_7 + \frac{26}{1609}\sqrt{235}e^3 \otimes e_5$	{12349, 1456789, 2456, 3478, 12349, 1456789, 2456, 3478}
942:39	$0, 0, 0, 0, 0, \frac{26}{1609}\sqrt{61}e^{12}, \frac{13}{1609}\sqrt{1542}e^{13},$ $\frac{39}{1609}\sqrt{85}e^{16} + \frac{117}{1609}\sqrt{11}e^{24}, \frac{13}{1609}\sqrt{887}e^{14} + \frac{13}{1609}\sqrt{1013}e^{26}$	$(\frac{65}{1609}, \frac{65}{1609}, -\frac{169}{1609}, \frac{130}{1609}, -\frac{338}{1609}, \frac{130}{1609}, -\frac{104}{1609}, \frac{195}{1609}, \frac{195}{1609})$ $+ \frac{13}{1609}\sqrt{2014}e^2 \otimes e_7 + \frac{26}{1609}\sqrt{235}e^3 \otimes e_5$	{12349, 1456789, 2456, 3478, 12349, 1456789, 2456, 3478}
942:39	$0, 0, 0, 0, 0, \frac{102}{605}\sqrt{15}e^{12}, \frac{17}{605}\sqrt{410}e^{13}, \frac{17}{605}\sqrt{582}e^{16} - \frac{102}{605}\sqrt{11}e^{24},$ $\frac{34}{605}\sqrt{78}e^{14} + \frac{51}{605}\sqrt{14}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+ \frac{17}{605}\sqrt{1006}e^1 \otimes e_3 + \frac{34}{605}\sqrt{21}e^5 \otimes e_7$	{12458, 1456, 2345689, 3459, 12458, 1456, 2345689, 3459}
942:39	$0, 0, 0, 0, 0, \frac{102}{605}\sqrt{15}e^{12}, \frac{17}{605}\sqrt{410}e^{13}, \frac{17}{605}\sqrt{582}e^{16} + \frac{102}{605}\sqrt{11}e^{24},$ $\frac{34}{605}\sqrt{78}e^{14} + \frac{51}{605}\sqrt{14}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+ \frac{17}{605}\sqrt{1006}e^1 \otimes e_3 + \frac{34}{605}\sqrt{21}e^5 \otimes e_7$	{12458, 1456, 2345689, 3459, 12458, 1456, 2345689, 3459}
942:39	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{2}e^{12}, \frac{5}{47}\sqrt{2}e^{13}, \frac{5}{47}\sqrt{21}e^{16} - \frac{5}{47}\sqrt{21}e^{24},$ $\frac{5}{47}\sqrt{59}e^{14} + \frac{5}{47}\sqrt{57}e^{26}$	$(-\frac{1}{47}, -\frac{1}{47}, \frac{8}{47}, -\frac{2}{47}, 1, -\frac{2}{47}, \frac{7}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{158}e^5 \otimes e_9$	{12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679, 12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:39	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{2}e^{12}, \frac{5}{47}\sqrt{2}e^{13}, \frac{5}{47}\sqrt{21}e^{16} + \frac{5}{47}\sqrt{21}e^{24},$ $\frac{5}{47}\sqrt{59}e^{14} + \frac{5}{47}\sqrt{57}e^{26}$	$(-\frac{1}{47}, -\frac{1}{47}, \frac{8}{47}, -\frac{2}{47}, 1, -\frac{2}{47}, \frac{7}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{158}e^5 \otimes e_9$	{12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679, 12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679}
942:39	$0, 0, 0, 0, 0, \frac{1}{75}\sqrt{598}e^{12}, \frac{1}{75}\sqrt{1518}e^{13}, \frac{1}{75}\sqrt{69}e^{16} - \frac{7}{75}\sqrt{23}e^{24},$ $\frac{1}{15}\sqrt{23}e^{14} + \frac{1}{75}\sqrt{115}e^{26}$	$(-\frac{1}{25}, -\frac{1}{25}, \frac{14}{75}, -\frac{2}{25}, \frac{34}{75}, -\frac{2}{25}, \frac{11}{75}, -\frac{3}{25}, -\frac{3}{25})$ $+ \frac{1}{75}\sqrt{1886}e^3 \otimes e_8 + \frac{2}{75}\sqrt{322}e^5 \otimes e_7$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
942:39	$0, 0, 0, 0, 0, \frac{1}{75}\sqrt{598}e^{12}, \frac{1}{75}\sqrt{1518}e^{13}, \frac{1}{75}\sqrt{69}e^{16} + \frac{7}{75}\sqrt{23}e^{24},$ $\frac{1}{15}\sqrt{23}e^{14} + \frac{1}{75}\sqrt{115}e^{26}$	$(-\frac{1}{25}, -\frac{1}{25}, \frac{14}{75}, -\frac{2}{25}, \frac{34}{75}, -\frac{2}{25}, \frac{11}{75}, -\frac{3}{25}, -\frac{3}{25})$ $+ \frac{1}{75}\sqrt{1886}e^3 \otimes e_8 + \frac{2}{75}\sqrt{322}e^5 \otimes e_7$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
942:39	$0, 0, 0, 0, 0, \frac{3}{283}\sqrt{2162}e^{12}, \frac{69}{283}\sqrt{10}e^{13}, \frac{3}{283}\sqrt{1909}e^{16} - \frac{21}{283}\sqrt{115}e^{24},$ $\frac{3}{283}\sqrt{2599}e^{14} + \frac{9}{283}\sqrt{115}e^{26}$	$(-\frac{13}{283}, -\frac{13}{283}, \frac{168}{283}, -\frac{26}{283}, \frac{40}{283}, -\frac{26}{283}, \frac{155}{283}, -\frac{39}{283}, -\frac{39}{283})$ $+ \frac{27}{283}\sqrt{138}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
942:39	$0, 0, 0, 0, 0, \frac{3}{283}\sqrt{2162}e^{12}, \frac{69}{283}\sqrt{10}e^{13}, \frac{3}{283}\sqrt{1909}e^{16} + \frac{21}{283}\sqrt{115}e^{24},$ $\frac{3}{283}\sqrt{2599}e^{14} + \frac{9}{283}\sqrt{115}e^{26}$	$(-\frac{13}{283}, -\frac{13}{283}, \frac{168}{283}, -\frac{26}{283}, \frac{40}{283}, -\frac{26}{283}, \frac{155}{283}, -\frac{39}{283}, -\frac{39}{283})$ $+ \frac{27}{283}\sqrt{138}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
942:39	$0, 0, 0, 0, 0, \frac{2}{569}\sqrt{21390}e^{12}, \frac{12}{569}\sqrt{2415}e^{13},$ $\frac{6}{569}\sqrt{2990}e^{16} - \frac{2}{569}\sqrt{27255}e^{24}, \frac{2}{569}\sqrt{16215}e^{14} + \frac{24}{569}\sqrt{115}e^{26}$	$(\frac{33}{569}, \frac{33}{569}, -\frac{154}{569}, \frac{66}{569}, 1, \frac{66}{569}, -\frac{121}{569}, \frac{99}{569}, \frac{99}{569})$ $+ \frac{6}{569}\sqrt{18055}e^5 \otimes e_7$	{123568, 12678, 135, 17, 23789, 2589, 3679, 569, 123568, 12678, 135, 17, 23789, 2589, 3679, 569}
942:39	$0, 0, 0, 0, 0, \frac{2}{569}\sqrt{21390}e^{12}, \frac{12}{569}\sqrt{2415}e^{13},$ $\frac{6}{569}\sqrt{2990}e^{16} + \frac{2}{569}\sqrt{27255}e^{24}, \frac{2}{569}\sqrt{16215}e^{14} + \frac{24}{569}\sqrt{115}e^{26}$	$(\frac{33}{569}, \frac{33}{569}, -\frac{154}{569}, \frac{66}{569}, 1, \frac{66}{569}, -\frac{121}{569}, \frac{99}{569}, \frac{99}{569})$ $+ \frac{6}{569}\sqrt{18055}e^5 \otimes e_7$	{123568, 12678, 135, 17, 23789, 2589, 3679, 569, 123568, 12678, 135, 17, 23789, 2589, 3679, 569}
942:39	$0, 0, 0, 0, 0, \frac{6}{457}\sqrt{2}e^{12}, \frac{6}{457}\sqrt{35}e^{13}, \frac{1}{457}\sqrt{795}e^{16} - \frac{3}{457}\sqrt{61}e^{24},$ $\frac{3}{457}\sqrt{35}e^{14} + \frac{1}{457}\sqrt{1101}e^{26}$	$(-\frac{2}{457}, -\frac{2}{457}, -\frac{3}{457}, -\frac{4}{457}, \frac{35}{457}, -\frac{4}{457}, -\frac{5}{457}, -\frac{6}{457}, -\frac{6}{457})$ $+ \frac{10}{457}\sqrt{15}e^2 \otimes e_7 + \frac{2}{457}\sqrt{258}e^3 \otimes e_9$	{1456789, 146789, 34578, 3478, 1456789, 146789, 34578, 3478}
942:39	$0, 0, 0, 0, 0, \frac{6}{457}\sqrt{2}e^{12}, \frac{6}{457}\sqrt{35}e^{13}, \frac{1}{457}\sqrt{795}e^{16} + \frac{3}{457}\sqrt{61}e^{24},$ $\frac{3}{457}\sqrt{35}e^{14} + \frac{1}{457}\sqrt{1101}e^{26}$	$(-\frac{2}{457}, -\frac{2}{457}, -\frac{3}{457}, -\frac{4}{457}, \frac{35}{457}, -\frac{4}{457}, -\frac{5}{457}, -\frac{6}{457}, -\frac{6}{457})$ $+ \frac{10}{457}\sqrt{15}e^2 \otimes e_7 + \frac{2}{457}\sqrt{258}e^3 \otimes e_9$	{1456789, 146789, 34578, 3478, 1456789, 146789, 34578, 3478}
942:39	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{182}e^{13}, \frac{4}{131}\sqrt{119}e^{16} - \frac{4}{131}\sqrt{113}e^{24},$ $\frac{4}{131}\sqrt{91}e^{14} + \frac{12}{131}\sqrt{23}e^{26}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{122}e^5 \otimes e_9 + \frac{8}{131}\sqrt{87}e^2 \otimes e_7$	{12349, 146789, 2456, 34578, 12349, 146789, 2456, 34578}
942:39	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{182}e^{13}, \frac{4}{131}\sqrt{119}e^{16} + \frac{4}{131}\sqrt{113}e^{24},$ $\frac{4}{131}\sqrt{91}e^{14} + \frac{12}{131}\sqrt{23}e^{26}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{122}e^5 \otimes e_9 + \frac{8}{131}\sqrt{87}e^2 \otimes e_7$	{12349, 146789, 2456, 34578, 12349, 146789, 2456, 34578}
942:39	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{2}{11}\sqrt{22}e^{13}, \frac{5}{11}\sqrt{3}e^{16} - \frac{1}{11}\sqrt{69}e^{24},$ $\frac{3}{11}\sqrt{7}e^{14} + \frac{1}{11}\sqrt{57}e^{26}$	$(0, 0, -\frac{1}{11}, 0, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0)$ $+ \frac{4}{11}\sqrt{5}e^1 \otimes e_3 + \frac{4}{11}\sqrt{6}e^2 \otimes e_7$	{123568, 12368, 2589, 289, 123568, 12368, 2589, 289}
942:39	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{2}{11}\sqrt{22}e^{13}, \frac{5}{11}\sqrt{3}e^{16} + \frac{1}{11}\sqrt{69}e^{24},$ $\frac{3}{11}\sqrt{7}e^{14} + \frac{1}{11}\sqrt{57}e^{26}$	$(0, 0, -\frac{1}{11}, 0, \frac{3}{11}, 0, -\frac{1}{11}, 0, 0)$ $+ \frac{4}{11}\sqrt{5}e^1 \otimes e_3 + \frac{4}{11}\sqrt{6}e^2 \otimes e_7$	{123568, 12368, 2589, 289, 123568, 12368, 2589, 289}
942:39	$0, 0, 0, 0, 0, \frac{28}{211}\sqrt{6}e^{12}, \frac{84}{211}e^{13}, \frac{7}{211}\sqrt{29}e^{16} - \frac{7}{211}\sqrt{67}e^{24},$ $\frac{7}{211}\sqrt{77}e^{14} + \frac{7}{211}\sqrt{115}e^{26}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, -\frac{35}{211}, \frac{28}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{14}{211}\sqrt{29}e^1 \otimes e_5 + \frac{14}{211}\sqrt{65}e^2 \otimes e_7$	{12349, 146789, 2456, 34578, 12349, 146789, 2456, 34578}
942:39	$0, 0, 0, 0, 0, \frac{28}{211}\sqrt{6}e^{12}, \frac{84}{211}e^{13}, \frac{7}{211}\sqrt{29}e^{16} + \frac{7}{211}\sqrt{67}e^{24},$ $\frac{7}{211}\sqrt{77}e^{14} + \frac{7}{211}\sqrt{115}e^{26}$	$(\frac{14}{211}, \frac{14}{211}, -\frac{49}{211}, \frac{28}{211}, -\frac{35}{211}, \frac{28}{211}, -\frac{35}{211}, \frac{42}{211}, \frac{42}{211})$ $+ \frac{14}{211}\sqrt{29}e^1 \otimes e_5 + \frac{14}{211}\sqrt{65}e^2 \otimes e_7$	{12349, 146789, 2456, 34578, 12349, 146789, 2456, 34578}
942:39	$0, 0, 0, 0, 0, \frac{6}{457}\sqrt{2}e^{12}, \frac{6}{457}\sqrt{35}e^{13}, \frac{3}{457}\sqrt{31}e^{16} - \frac{1}{457}\sqrt{1065}e^{24},$ $\frac{1}{457}\sqrt{831}e^{14} + \frac{3}{457}\sqrt{65}e^{26}$	$(-\frac{2}{457}, -\frac{2}{457}, -\frac{3}{457}, -\frac{4}{457}, \frac{35}{457}, -\frac{4}{457}, -\frac{5}{457}, -\frac{6}{457}, -\frac{6}{457})$ $+ \frac{10}{457}\sqrt{15}e^2 \otimes e_7 + \frac{2}{457}\sqrt{258}e^3 \otimes e_8$	{123459, 12349, 1456789, 146789, 123459, 12349, 1456789, 146789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:39	$0, 0, 0, 0, 0, \frac{6}{457}\sqrt{2}e^{12}, \frac{6}{457}\sqrt{35}e^{13}, \frac{3}{457}\sqrt{31}e^{16} + \frac{1}{457}\sqrt{1065}e^{24},$ $\frac{1}{457}\sqrt{831}e^{14} + \frac{3}{457}\sqrt{65}e^{26}$	$(-\frac{2}{457}, -\frac{2}{457}, -\frac{3}{457}, -\frac{4}{457}, \frac{35}{457}, -\frac{4}{457}, -\frac{5}{457}, -\frac{6}{457}, -\frac{6}{457})$ $+\frac{10}{457}\sqrt{15}e^2 \otimes e_7 + \frac{2}{457}\sqrt{258}e^3 \otimes e_8$	{123459, 12349, 1456789, 146789, 123459, 12349, 1456789, 146789}
942:39	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{186}e^{12}, \frac{6}{95}\sqrt{42}e^{13}, \frac{9}{95}\sqrt{30}e^{16} - \frac{6}{95}\sqrt{21}e^{24},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{354}e^1 \otimes e_3$	{1248, 1456, 234689, 3459, 1248, 1456, 234689, 3459}
942:39	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{186}e^{12}, \frac{6}{95}\sqrt{42}e^{13}, \frac{9}{95}\sqrt{30}e^{16} + \frac{6}{95}\sqrt{21}e^{24},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, \frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, \frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{354}e^1 \otimes e_3$	{1248, 1456, 234689, 3459, 1248, 1456, 234689, 3459}
942:39	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{182}e^{13}, \frac{4}{131}\sqrt{58}e^{16} - \frac{4}{131}\sqrt{174}e^{24},$ $\frac{8}{131}\sqrt{38}e^{14} + \frac{4}{131}\sqrt{146}e^{26}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+\frac{4}{131}\sqrt{122}e^5 \otimes e_8 + \frac{4}{131}\sqrt{87}e^2 \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:39	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{182}e^{13}, \frac{4}{131}\sqrt{58}e^{16} + \frac{4}{131}\sqrt{174}e^{24},$ $\frac{8}{131}\sqrt{38}e^{14} + \frac{4}{131}\sqrt{146}e^{26}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+\frac{4}{131}\sqrt{122}e^5 \otimes e_8 + \frac{4}{131}\sqrt{87}e^2 \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:39	$0, 0, 0, 0, 0, \frac{10}{281}\sqrt{30}e^{12}, \frac{20}{281}\sqrt{39}e^{13}, \frac{5}{281}\sqrt{411}e^{16} - \frac{5}{281}\sqrt{597}e^{24},$ $\frac{15}{281}\sqrt{31}e^{14} + \frac{5}{281}\sqrt{465}e^{26}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, -\frac{35}{281}, \frac{40}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281})$ $+\frac{10}{281}\sqrt{282}e^2 \otimes e_7 + \frac{40}{281}\sqrt{6}e^4 \otimes e_5$	{12349, 146789, 246, 3478, 12349, 146789, 246, 3478}
942:39	$0, 0, 0, 0, 0, \frac{10}{281}\sqrt{30}e^{12}, \frac{20}{281}\sqrt{39}e^{13}, \frac{5}{281}\sqrt{411}e^{16} + \frac{5}{281}\sqrt{597}e^{24},$ $\frac{15}{281}\sqrt{31}e^{14} + \frac{5}{281}\sqrt{465}e^{26}$	$(\frac{20}{281}, \frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, -\frac{35}{281}, \frac{40}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281})$ $+\frac{10}{281}\sqrt{282}e^2 \otimes e_7 + \frac{40}{281}\sqrt{6}e^4 \otimes e_5$	{12349, 146789, 246, 3478, 12349, 146789, 246, 3478}
942:39	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{42}e^{12}, \frac{3}{95}\sqrt{186}e^{13}, \frac{6}{95}\sqrt{21}e^{16} - \frac{9}{95}\sqrt{30}e^{24},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, -\frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{354}e^4 \otimes e_7$	{126789, 1579, 2378, 3567, 126789, 1579, 2378, 3567}
942:39	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{42}e^{12}, \frac{3}{95}\sqrt{186}e^{13}, \frac{6}{95}\sqrt{21}e^{16} + \frac{9}{95}\sqrt{30}e^{24},$ $\frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{26}$	$(\frac{3}{95}, \frac{3}{95}, \frac{24}{95}, \frac{6}{95}, \frac{36}{95}, \frac{6}{95}, \frac{21}{95}, \frac{9}{95}, \frac{9}{95})$ $+\frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{354}e^4 \otimes e_7$	{126789, 1579, 2378, 3567, 126789, 1579, 2378, 3567}
942:39	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{86}e^{12}, \frac{2}{89}\sqrt{946}e^{13}, \frac{1}{89}\sqrt{2795}e^{16} - \frac{1}{89}\sqrt{4085}e^{24},$ $\frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $+\frac{4}{89}\sqrt{430}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 23578, 2378, 3567, 367, 1256789, 126789, 1579, 179, 23578, 2378, 3567, 367}
942:39	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{86}e^{12}, \frac{2}{89}\sqrt{946}e^{13}, \frac{1}{89}\sqrt{2795}e^{16} + \frac{1}{89}\sqrt{4085}e^{24},$ $\frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{26}$	$(\frac{8}{89}, \frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{89}, \frac{16}{89}, -\frac{27}{89}, \frac{24}{89}, \frac{24}{89})$ $+\frac{4}{89}\sqrt{430}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 23578, 2378, 3567, 367, 1256789, 126789, 1579, 179, 23578, 2378, 3567, 367}
942:39	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{1}{146}\sqrt{11514}e^{16} - \frac{3}{146}\sqrt{798}e^{24},$ $\frac{1}{146}\sqrt{6042}e^{14} + \frac{3}{146}\sqrt{190}e^{26}$	$(\frac{7}{73}, \frac{7}{73}, \frac{8}{73}, \frac{14}{73}, -\frac{50}{73}, \frac{14}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459, 12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459}
942:39	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{1}{146}\sqrt{11514}e^{16} + \frac{3}{146}\sqrt{798}e^{24},$ $\frac{1}{146}\sqrt{6042}e^{14} + \frac{3}{146}\sqrt{190}e^{26}$	$(\frac{7}{73}, \frac{7}{73}, \frac{8}{73}, \frac{14}{73}, -\frac{50}{73}, \frac{14}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459, 12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459}
942:39	$0, 0, 0, 0, 0, \frac{16}{793}\sqrt{267}e^{12}, \frac{16}{793}\sqrt{394}e^{13}, \frac{8}{793}\sqrt{998}e^{16} - \frac{8}{793}\sqrt{1298}e^{24},$ $\frac{8}{793}\sqrt{510}e^{14} + \frac{8}{793}\sqrt{210}e^{26}$	$(\frac{40}{793}, \frac{40}{793}, -\frac{88}{793}, \frac{80}{793}, -\frac{216}{793}, \frac{80}{793}, -\frac{48}{793}, \frac{120}{793}, \frac{120}{793})$ $+\frac{16}{793}\sqrt{487}e^4 \otimes e_7 + \frac{48}{793}\sqrt{29}e^3 \otimes e_5$	{1256789, 1579, 2378, 367, 1256789, 1579, 2378, 367}
942:39	$0, 0, 0, 0, 0, \frac{16}{793}\sqrt{267}e^{12}, \frac{16}{793}\sqrt{394}e^{13}, \frac{8}{793}\sqrt{998}e^{16} + \frac{8}{793}\sqrt{1298}e^{24},$ $\frac{8}{793}\sqrt{510}e^{14} + \frac{8}{793}\sqrt{210}e^{26}$	$(\frac{40}{793}, \frac{40}{793}, -\frac{88}{793}, \frac{80}{793}, -\frac{216}{793}, \frac{80}{793}, -\frac{48}{793}, \frac{120}{793}, \frac{120}{793})$ $+\frac{16}{793}\sqrt{487}e^4 \otimes e_7 + \frac{48}{793}\sqrt{29}e^3 \otimes e_5$	{1256789, 1579, 2378, 367, 1256789, 1579, 2378, 367}
942:40	$0, 0, 0, 0, 0, \frac{5}{169}\sqrt{37}e^{12}, \frac{5}{169}\sqrt{174}e^{13}, \frac{45}{169}e^{16},$ $\frac{5}{169}\sqrt{59}e^{14} + \frac{5}{169}\sqrt{149}e^{26} + \frac{45}{169}e^{35}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{20}{169}, \frac{40}{169}, -\frac{5}{169}, -\frac{5}{169}, -\frac{5}{169}, -\frac{30}{169}, \frac{15}{169})$ $+\frac{20}{169}\sqrt{7}e^3 \otimes e_5 + \frac{5}{169}\sqrt{205}e^2 \otimes e_7$	{2456, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:40	$0, 0, 0, 0, 0, \frac{11}{1345}\sqrt{33}e^{12}, \frac{11}{1345}\sqrt{499}e^{13}, \frac{22}{1345}\sqrt{374}e^{16},$ $\frac{11}{1345}\sqrt{731}e^{14} + \frac{22}{1345}\sqrt{142}e^{26} + \frac{264}{1345}\sqrt{2}e^{35}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{269}, -\frac{44}{1345}, \frac{253}{1345}, \frac{11}{1345}, -\frac{143}{1345}, \frac{132}{1345}, \frac{33}{1345})$ $+ \frac{187}{1345}\sqrt{5}e^5 \otimes e_8 + \frac{22}{1345}\sqrt{258}e^1 \otimes e_4$	{128, 13567}
942:40	$0, 0, 0, 0, 0, \frac{39}{367}\sqrt{21}e^{12}, \frac{26}{367}\sqrt{91}e^{13}, \frac{13}{367}\sqrt{177}e^{16},$ $\frac{13}{367}\sqrt{185}e^{14} + \frac{13}{367}\sqrt{427}e^{26} + \frac{13}{367}\sqrt{173}e^{35}$	$(-\frac{52}{367}, \frac{65}{367}, -\frac{52}{367}, \frac{130}{367}, \frac{130}{367}, \frac{13}{367}, -\frac{104}{367}, -\frac{39}{367}, \frac{78}{367})$ $+ \frac{13}{367}\sqrt{659}e^2 \otimes e_7 + \frac{26}{367}\sqrt{3}e^4 \otimes e_8$	{146789, 3478}
942:40	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{1}{89}\sqrt{3526}e^{13}, \frac{41}{89}e^{16},$ $\frac{1}{89}\sqrt{1763}e^{14} + \frac{1}{89}\sqrt{4141}e^{26} + \frac{41}{89}e^{35}$	$(-\frac{13}{89}, \frac{16}{89}, -\frac{12}{89}, \frac{32}{89}, \frac{31}{89}, \frac{3}{89}, -\frac{25}{89}, -\frac{10}{89}, \frac{19}{89})$ $+ \frac{1}{89}\sqrt{6437}e^2 \otimes e_7$	{123459, 146789, 2456, 3478}
942:40	$0, 0, 0, 0, 0, \frac{8}{747}\sqrt{1345}e^{12}, \frac{2}{747}\sqrt{17754}e^{13}, \frac{2}{747}\sqrt{88770}e^{16},$ $\frac{2}{747}\sqrt{51379}e^{14} + \frac{2}{747}\sqrt{31742}e^{26} + \frac{2}{747}\sqrt{88770}e^{35}$	$(-\frac{170}{747}, \frac{17}{83}, \frac{39}{83}, \frac{34}{83}, -\frac{215}{747}, -\frac{17}{747}, \frac{181}{747}, -\frac{187}{747}, \frac{136}{747})$ $+ \frac{4}{747}\sqrt{42502}e^3 \otimes e_8$	{1278, 1356, 25689, 379}
942:40	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{141}e^{12}, \frac{1}{19}\sqrt{231}e^{13}, \frac{2}{19}\sqrt{69}e^{16},$ $\frac{3}{19}\sqrt{19}e^{14} + \frac{2}{19}\sqrt{30}e^{26} + \frac{2}{19}\sqrt{69}e^{35}$	$(\frac{1}{19}, 0, -\frac{4}{19}, 0, \frac{5}{19}, \frac{1}{19}, -\frac{3}{19}, \frac{2}{19}, \frac{1}{19})$ $+ \frac{1}{19}\sqrt{285}e^5 \otimes e_8 + \frac{8}{19}\sqrt{3}e^4 \otimes e_7$	{128, 23689}
942:40	$0, 0, 0, 0, 0, \frac{6}{2285}\sqrt{84970}e^{12}, \frac{8}{2285}\sqrt{16701}e^{13}, \frac{4}{2285}\sqrt{194259}e^{16},$ $\frac{2}{2285}\sqrt{552891}e^{14} + \frac{6}{2285}\sqrt{4102}e^{26} + \frac{4}{2285}\sqrt{54498}e^{35}$	$(\frac{856}{2285}, -\frac{451}{2285}, -\frac{35}{457}, -\frac{902}{2285}, \frac{129}{2285}, \frac{81}{2285}, \frac{681}{2285}, \frac{1261}{2285}, -\frac{46}{2285})$ $+ \frac{12}{2285}\sqrt{46587}e^1 \otimes e_4$	{12358, 1278, 1356, 167}
942:40	$0, 0, 0, 0, 0, \frac{1210}{4357}e^{12}, \frac{55}{4357}\sqrt{842}e^{13}, \frac{55}{4357}\sqrt{1122}e^{16},$ $\frac{110}{4357}\sqrt{382}e^{14} + \frac{330}{4357}\sqrt{13}e^{26} + \frac{110}{4357}\sqrt{82}e^{35}$	$(-\frac{1045}{4357}, \frac{935}{4357}, \frac{1925}{4357}, \frac{1870}{4357}, -\frac{1100}{4357}, -\frac{110}{4357}, \frac{880}{4357}, -\frac{1155}{4357}, \frac{825}{4357})$ $+ \frac{275}{4357}\sqrt{174}e^4 \otimes e_8 + \frac{55}{4357}\sqrt{3446}e^3 \otimes e_5$	{3678, 568}
942:40	$0, 0, 0, 0, 0, \frac{40}{1181}\sqrt{145}e^{12}, \frac{40}{3543}\sqrt{645}e^{13}, \frac{40}{3543}\sqrt{890}e^{16},$ $\frac{1120}{3543}e^{14} + \frac{40}{3543}\sqrt{389}e^{26} + \frac{40}{3543}\sqrt{1357}e^{35}$	$(-\frac{200}{1181}, \frac{180}{1181}, \frac{140}{3543}, \frac{360}{1181}, \frac{340}{3543}, -\frac{20}{1181}, -\frac{460}{3543}, -\frac{220}{1181}, \frac{160}{1181})$ $+ \frac{40}{3543}\sqrt{1401}e^5 \otimes e_7 + \frac{40}{3543}\sqrt{1846}e^3 \otimes e_8$	{1278, 1356, 25689, 379}
942:40	$0, 0, 0, 0, 0, \frac{40}{1181}\sqrt{145}e^{12}, \frac{40}{3543}\sqrt{645}e^{13}, \frac{40}{3543}\sqrt{890}e^{16},$ $\frac{1120}{3543}e^{14} + \frac{40}{3543}\sqrt{389}e^{26} + \frac{40}{3543}\sqrt{1357}e^{35}$	$(-\frac{200}{1181}, \frac{180}{1181}, \frac{140}{3543}, \frac{360}{1181}, \frac{340}{3543}, -\frac{20}{1181}, -\frac{460}{3543}, -\frac{220}{1181}, \frac{160}{1181})$ $- \frac{40}{3543}\sqrt{1401}e^5 \otimes e_7 + \frac{40}{3543}\sqrt{1846}e^3 \otimes e_8$	{1278, 1356, 25689, 379}
942:40	$0, 0, 0, 0, 0, \frac{28}{3411}\sqrt{799}e^{12}, \frac{28}{3411}\sqrt{393}e^{13}, \frac{84}{379}\sqrt{2}e^{16},$ $\frac{112}{3411}\sqrt{61}e^{14} + \frac{56}{3411}\sqrt{95}e^{26} + \frac{28}{3411}\sqrt{951}e^{35}$	$(\frac{140}{3411}, -\frac{14}{379}, \frac{182}{1137}, -\frac{28}{379}, -\frac{658}{3411}, \frac{14}{3411}, \frac{686}{3411}, \frac{154}{3411}, -\frac{112}{3411})$ $+ \frac{28}{3411}\sqrt{1597}e^3 \otimes e_8 + \frac{364}{1137}e^1 \otimes e_4$	{1278, 1356}
942:40	$0, 0, 0, 0, 0, \frac{6}{2147}\sqrt{3982}e^{12}, \frac{2}{2147}\sqrt{487614}e^{13}, \frac{2}{2147}\sqrt{852510}e^{16},$ $\frac{2}{2147}\sqrt{737394}e^{14} + \frac{2}{2147}\sqrt{13213}e^{26} + \frac{2}{2147}\sqrt{194394}e^{35}$	$(-\frac{719}{2147}, \frac{734}{2147}, \frac{599}{2147}, \frac{1468}{2147}, \frac{150}{2147}, \frac{15}{2147}, -\frac{120}{2147}, -\frac{704}{2147}, \frac{749}{2147})$ $+ \frac{12}{2147}\sqrt{54843}e^4 \otimes e_8$	{134567, 146, 349, 4579}
942:40	$0, 0, 0, 0, 0, \frac{11}{1345}\sqrt{33}e^{12}, \frac{11}{1345}\sqrt{946}e^{13}, \frac{11}{1345}\sqrt{51}e^{16},$ $\frac{11}{1345}\sqrt{731}e^{14} + \frac{11}{1345}\sqrt{877}e^{26} + \frac{11}{1345}\sqrt{293}e^{35}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{269}, -\frac{44}{1345}, \frac{253}{1345}, \frac{11}{1345}, -\frac{143}{1345}, \frac{132}{1345}, \frac{33}{1345})$ $+ \frac{187}{1345}\sqrt{5}e^2 \otimes e_7 + \frac{22}{1345}\sqrt{258}e^1 \otimes e_4$	{24568, 347}
942:40	$0, 0, 0, 0, 0, \frac{5}{253}\sqrt{291}e^{12}, \frac{10}{253}\sqrt{129}e^{13}, \frac{5}{253}\sqrt{33}e^{16},$ $\frac{15}{253}\sqrt{43}e^{14} + \frac{105}{253}e^{26} + \frac{5}{253}\sqrt{33}e^{35}$	$(-\frac{50}{253}, \frac{45}{253}, \frac{20}{253}, \frac{90}{253}, \frac{20}{253}, -\frac{5}{253}, -\frac{30}{253}, -\frac{5}{253}, \frac{40}{253})$ $+ \frac{10}{253}\sqrt{129}e^3 \otimes e_8 + \frac{5}{253}\sqrt{849}e^2 \otimes e_7$	{2468, 3457}
942:40	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{2030}e^{12}, \frac{6}{133}\sqrt{406}e^{13}, \frac{2}{133}\sqrt{2262}e^{16},$ $\frac{2}{133}\sqrt{3306}e^{14} + \frac{4}{133}\sqrt{174}e^{26} + \frac{2}{133}\sqrt{2262}e^{35}$	$(-\frac{31}{133}, \frac{2}{7}, -\frac{9}{133}, \frac{4}{7}, \frac{54}{133}, \frac{1}{19}, -\frac{40}{133}, -\frac{24}{133}, \frac{45}{133})$ $+ \frac{4}{133}\sqrt{1711}e^4 \otimes e_7$	{123468, 134, 2489, 469}
942:40	$0, 0, 0, 0, 0, \frac{340}{703}e^{12}, \frac{10}{703}\sqrt{5678}e^{13}, \frac{10}{703}\sqrt{1802}e^{16},$ $\frac{10}{703}\sqrt{323}e^{14} + \frac{10}{703}\sqrt{1938}e^{26} + \frac{10}{703}\sqrt{1802}e^{35}$	$(-\frac{30}{703}, \frac{65}{703}, \frac{25}{37}, \frac{130}{703}, -\frac{375}{703}, \frac{35}{703}, \frac{445}{703}, \frac{5}{703}, \frac{100}{703})$ $+ \frac{40}{703}\sqrt{629}e^3 \otimes e_5$	{12368, 125678, 13, 157}
942:40	$0, 0, 0, 0, 0, \frac{156}{1021}\sqrt{3}e^{12}, \frac{13}{1021}\sqrt{1626}e^{13}, \frac{26}{1021}\sqrt{174}e^{16},$ $\frac{156}{1021}\sqrt{2}e^{14} + \frac{13}{1021}\sqrt{354}e^{26} + \frac{26}{1021}\sqrt{174}e^{35}$	$(-\frac{260}{1021}, \frac{234}{1021}, \frac{221}{1021}, \frac{468}{1021}, -\frac{13}{1021}, -\frac{26}{1021}, -\frac{39}{1021}, -\frac{286}{1021}, \frac{208}{1021})$ $+ \frac{13}{1021}\sqrt{2478}e^4 \otimes e_7 + \frac{13}{1021}\sqrt{3030}e^3 \otimes e_8$	{15789, 2357}
942:40	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{1}{89}\sqrt{2911}e^{13}, \frac{2}{89}\sqrt{1189}e^{16},$ $\frac{1}{89}\sqrt{1763}e^{14} + \frac{2}{89}\sqrt{574}e^{26} + \frac{2}{89}\sqrt{1189}e^{35}$	$(-\frac{13}{89}, \frac{16}{89}, -\frac{12}{89}, \frac{32}{89}, \frac{31}{89}, \frac{3}{89}, -\frac{25}{89}, -\frac{10}{89}, \frac{19}{89})$ $+ \frac{1}{89}\sqrt{6437}e^5 \otimes e_8$	{128, 13567, 23689, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:40	$0, 0, 0, 0, 0, \frac{12}{431}\sqrt{195}e^{12}, \frac{3}{431}\sqrt{6690}e^{13}, \frac{33}{431}\sqrt{30}e^{16},$ $\frac{54}{431}\sqrt{10}e^{14} + \frac{9}{431}\sqrt{170}e^{26} + \frac{33}{431}\sqrt{30}e^{35}$	$(-\frac{87}{431}, \frac{72}{431}, \frac{96}{431}, \frac{144}{431}, -\frac{39}{431}, -\frac{15}{431}, \frac{9}{431}, -\frac{102}{431}, \frac{57}{431})$ $+ \frac{3}{431}\sqrt{5370}e^3 \otimes e_5 + \frac{3}{431}\sqrt{6990}e^4 \otimes e_7$	{123468, 134}
942:40	$0, 0, 0, 0, 0, \frac{16}{1005}\sqrt{645}e^{12}, \frac{16}{335}\sqrt{69}e^{13}, \frac{16}{335}\sqrt{74}e^{16},$ $\frac{32}{1005}\sqrt{174}e^{14} + \frac{16}{335}\sqrt{7}e^{26} + \frac{16}{1005}\sqrt{537}e^{35}$	$(\frac{208}{1005}, -\frac{88}{1005}, -\frac{56}{201}, -\frac{176}{1005}, \frac{104}{335}, \frac{8}{67}, -\frac{24}{335}, \frac{328}{1005}, \frac{32}{1005})$ $- \frac{16}{1005}\sqrt{1155}e^5 \otimes e_7 + \frac{16}{1005}\sqrt{1542}e^1 \otimes e_4$	{12358, 1278, 1356, 167}
942:40	$0, 0, 0, 0, 0, \frac{16}{1005}\sqrt{645}e^{12}, \frac{16}{335}\sqrt{69}e^{13}, \frac{16}{335}\sqrt{74}e^{16},$ $\frac{32}{1005}\sqrt{174}e^{14} + \frac{16}{335}\sqrt{7}e^{26} + \frac{16}{1005}\sqrt{537}e^{35}$	$(\frac{208}{1005}, -\frac{88}{1005}, -\frac{56}{201}, -\frac{176}{1005}, \frac{104}{335}, \frac{8}{67}, -\frac{24}{335}, \frac{328}{1005}, \frac{32}{1005})$ $+ \frac{16}{1005}\sqrt{1155}e^5 \otimes e_7 + \frac{16}{1005}\sqrt{1542}e^1 \otimes e_4$	{12358, 1278, 1356, 167}
942:40	$0, 0, 0, 0, 0, \frac{25}{1417}\sqrt{506}e^{12}, \frac{50}{1417}\sqrt{203}e^{13}, \frac{25}{1417}\sqrt{462}e^{16},$ $\frac{25}{1417}\sqrt{527}e^{14} + \frac{50}{1417}\sqrt{33}e^{26} + \frac{25}{1417}\sqrt{43}e^{35}$	$(\frac{275}{1417}, -\frac{175}{1417}, \frac{275}{1417}, -\frac{350}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{550}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $- \frac{25}{1417}\sqrt{1031}e^3 \otimes e_5 + \frac{25}{1417}\sqrt{1515}e^1 \otimes e_4$	{234678, 24568, 347, 45}
942:40	$0, 0, 0, 0, 0, \frac{25}{1417}\sqrt{506}e^{12}, \frac{50}{1417}\sqrt{203}e^{13}, \frac{25}{1417}\sqrt{462}e^{16},$ $\frac{25}{1417}\sqrt{527}e^{14} + \frac{50}{1417}\sqrt{33}e^{26} + \frac{25}{1417}\sqrt{43}e^{35}$	$(\frac{275}{1417}, -\frac{175}{1417}, \frac{275}{1417}, -\frac{350}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{550}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{1031}e^3 \otimes e_5 + \frac{25}{1417}\sqrt{1515}e^1 \otimes e_4$	{234678, 24568, 347, 45}
942:41	$0, 0, 0, 0, 0, \frac{360}{3419}\sqrt{11}e^{12}, \frac{60}{3419}\sqrt{1069}e^{13}, \frac{60}{3419}\sqrt{937}e^{26},$ $\frac{60}{3419}\sqrt{782}e^{16} + \frac{420}{3419}\sqrt{10}e^{23} + \frac{60}{3419}\sqrt{221}e^{45}$	$(\frac{480}{3419}, -\frac{660}{3419}, \frac{960}{3419}, \frac{1050}{3419}, -\frac{750}{3419}, -\frac{180}{3419}, \frac{1440}{3419}, -\frac{840}{3419}, \frac{300}{3419})$ $+ \frac{120}{3419}\sqrt{537}e^3 \otimes e_8 + \frac{1800}{3419}e^4 \otimes e_5$	{2489, 2589}
942:41	$0, 0, 0, 0, 0, \frac{72}{143}\sqrt{15}e^{12}, \frac{12}{715}\sqrt{865}e^{13}, \frac{12}{715}\sqrt{1045}e^{26},$ $\frac{12}{143}\sqrt{26}e^{16} + \frac{12}{715}\sqrt{190}e^{23} + \frac{12}{715}\sqrt{305}e^{45}$	$(-\frac{12}{143}, \frac{36}{143}, -\frac{24}{143}, \frac{42}{143}, -\frac{30}{143}, \frac{24}{143}, -\frac{36}{143}, \frac{60}{143}, \frac{12}{143})$ $+ \frac{24}{715}\sqrt{555}e^2 \otimes e_7 + \frac{72}{143}e^4 \otimes e_5$	{3479, 3579}
942:41	$0, 0, 0, 0, 0, \frac{6}{217}\sqrt{138}e^{12}, \frac{2}{217}\sqrt{3243}e^{13}, \frac{6}{217}\sqrt{874}e^{26},$ $\frac{2}{217}\sqrt{4002}e^{16} + \frac{2}{217}\sqrt{4623}e^{23} + \frac{6}{217}\sqrt{874}e^{45}$	$(\frac{27}{217}, -\frac{1}{7}, \frac{54}{217}, \frac{103}{217}, -\frac{80}{217}, -\frac{4}{217}, \frac{81}{217}, -\frac{5}{31}, \frac{23}{217})$ $+ \frac{6}{217}\sqrt{1403}e^4 \otimes e_8$	{1278, 156789, 2456, 49}
942:41	$0, 0, 0, 0, 0, \frac{6}{319}\sqrt{138}e^{12}, \frac{6}{319}\sqrt{1955}e^{13}, \frac{3}{319}\sqrt{3473}e^{26},$ $\frac{3}{319}\sqrt{4255}e^{16} + \frac{3}{319}\sqrt{3979}e^{23} + \frac{6}{319}\sqrt{1909}e^{45}$	$(-\frac{18}{319}, \frac{141}{638}, -\frac{36}{319}, \frac{153}{638}, -\frac{237}{638}, \frac{105}{638}, -\frac{54}{319}, \frac{123}{638}, \frac{69}{638})$ $+ \frac{3}{319}\sqrt{12489}e^4 \otimes e_7$	{123469, 1345, 235789, 3678}
942:41	$0, 0, 0, 0, 0, \frac{18}{137}\sqrt{2}e^{12}, \frac{6}{137}\sqrt{37}e^{13}, \frac{48}{137}e^{26},$ $\frac{6}{137}\sqrt{38}e^{16} + \frac{6}{137}\sqrt{17}e^{23} + \frac{12}{137}\sqrt{11}e^{45}$	$(-\frac{3}{137}, \frac{9}{137}, -\frac{6}{137}, \frac{33}{137}, -\frac{30}{137}, \frac{6}{137}, -\frac{9}{137}, \frac{15}{137}, \frac{3}{137})$ $+ \frac{12}{137}\sqrt{15}e^2 \otimes e_7 + \frac{18}{137}\sqrt{7}e^4 \otimes e_8$	{156789, 2456}
942:41	$0, 0, 0, 0, 0, \frac{360}{2519}\sqrt{11}e^{12}, \frac{60}{2519}\sqrt{1069}e^{13}, \frac{60}{2519}\sqrt{937}e^{26},$ $\frac{60}{2519}\sqrt{782}e^{16} + \frac{420}{2519}\sqrt{10}e^{23} + \frac{60}{2519}\sqrt{221}e^{45}$	$(\frac{480}{2519}, -\frac{60}{229}, \frac{960}{2519}, \frac{150}{2519}, \frac{150}{2519}, -\frac{180}{2519}, \frac{1440}{2519}, -\frac{840}{2519}, \frac{300}{2519})$ $+ \frac{120}{2519}\sqrt{537}e^3 \otimes e_8$	{2489, 4568, 68}
942:41	$0, 0, 0, 0, 0, \frac{24}{211}\sqrt{14}e^{12}, \frac{4}{211}\sqrt{462}e^{13}, \frac{12}{211}\sqrt{70}e^{26},$ $\frac{8}{211}\sqrt{21}e^{16} + \frac{8}{211}\sqrt{42}e^{23} + \frac{12}{211}\sqrt{70}e^{45}$	$(\frac{18}{211}, \frac{20}{211}, \frac{36}{211}, \frac{196}{211}, -\frac{140}{211}, \frac{38}{211}, \frac{54}{211}, \frac{58}{211}, \frac{56}{211})$ $+ \frac{336}{211}e^4 \otimes e_5$	{123489, 123589, 234679, 235679}
942:41	$0, 0, 0, 0, 0, \frac{72}{107}\sqrt{15}e^{12}, \frac{12}{535}\sqrt{865}e^{13}, \frac{12}{535}\sqrt{1045}e^{26},$ $\frac{12}{107}\sqrt{26}e^{16} + \frac{12}{535}\sqrt{190}e^{23} + \frac{12}{535}\sqrt{305}e^{45}$	$(-\frac{12}{107}, \frac{36}{107}, -\frac{24}{107}, \frac{6}{107}, \frac{24}{107}, -\frac{36}{107}, \frac{60}{107}, \frac{12}{107})$ $+ \frac{24}{535}\sqrt{555}e^2 \otimes e_7$	{123458, 1238, 3479}
942:41	$0, 0, 0, 0, 0, \frac{10}{547}\sqrt{102}e^{12}, \frac{20}{547}\sqrt{102}e^{13}, \frac{15}{547}\sqrt{109}e^{26},$ $\frac{15}{547}\sqrt{119}e^{16} + \frac{15}{547}\sqrt{15}e^{23} + \frac{60}{547}\sqrt{7}e^{45}$	$(\frac{20}{547}, -\frac{55}{1094}, \frac{40}{547}, \frac{135}{547}, -\frac{245}{1094}, -\frac{15}{1094}, \frac{60}{547}, -\frac{35}{547}, \frac{25}{1094})$ $+ \frac{10}{547}\sqrt{366}e^3 \otimes e_8 + \frac{5}{547}\sqrt{1545}e^4 \otimes e_7$	{123469, 1345}
942:42	$0, 0, 0, 0, 0, \frac{5}{279}\sqrt{3426}e^{12}, \frac{1}{558}\sqrt{120481}e^{13}, \frac{1}{558}\sqrt{43967}e^{26},$ $\frac{1}{279}\sqrt{32547}e^{16} + \frac{1}{279}\sqrt{59955}e^{24} + \frac{1}{558}\sqrt{42254}e^{35}$	$(\frac{29}{93}, -\frac{397}{1116}, \frac{11}{279}, \frac{58}{93}, \frac{85}{372}, -\frac{49}{1116}, \frac{98}{279}, -\frac{223}{558}, \frac{299}{1116})$ $+ \frac{1}{558}\sqrt{533885}e^4 \otimes e_8$	{235789, 289, 3678, 568}
942:42	$0, 0, 0, 0, 0, \frac{7}{757}\sqrt{4974}e^{12}, \frac{7}{2271}\sqrt{2766}e^{13}, \frac{14}{757}\sqrt{182}e^{26},$ $\frac{14}{757}\sqrt{30}e^{16} + \frac{35}{757}\sqrt{22}e^{24} + \frac{7}{2271}\sqrt{5406}e^{35}$	$(-\frac{7}{757}, \frac{35}{757}, -\frac{91}{757}, -\frac{14}{757}, \frac{112}{757}, \frac{28}{757}, -\frac{98}{757}, \frac{63}{757}, \frac{21}{757})$ $+ \frac{14}{2271}\sqrt{1551}e^2 \otimes e_4 + \frac{14}{2271}\sqrt{1605}e^5 \otimes e_8$	{128, 2356}
942:42	$0, 0, 0, 0, 0, \frac{5}{5911}\sqrt{154}e^{12}, \frac{10}{5911}\sqrt{1166}e^{13}, \frac{60}{5911}\sqrt{33}e^{26},$ $\frac{5}{5911}\sqrt{3706}e^{16} + \frac{10}{5911}\sqrt{318}e^{24} + \frac{60}{5911}\sqrt{1382}e^{35}$	$(-\frac{80}{5911}, \frac{110}{5911}, \frac{165}{5911}, -\frac{160}{5911}, -\frac{215}{5911}, \frac{30}{5911}, \frac{85}{5911}, \frac{140}{5911}, -\frac{50}{5911})$ $+ \frac{20}{5911}\sqrt{339}e^3 \otimes e_8 + \frac{5}{5911}\sqrt{5446}e^2 \otimes e_7$	{1456789, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:42	$0, 0, 0, 0, 0, \frac{1}{114}\sqrt{9794}e^{12}, \frac{1}{114}\sqrt{3818}e^{13}, \frac{1}{114}\sqrt{8466}e^{26},$ $\frac{1}{114}\sqrt{166}e^{16} + \frac{2}{57}\sqrt{415}e^{24} + \frac{1}{114}\sqrt{4399}e^{35}$	$(-\frac{13}{76}, \frac{22}{57}, \frac{7}{57}, -\frac{13}{38}, -\frac{3}{38}, \frac{49}{228}, -\frac{11}{228}, \frac{137}{228}, \frac{5}{114})$ $+ \frac{1}{114}\sqrt{16019}e^2 \otimes e_4$	{1345678, 1468, 345, 47}
942:42	$0, 0, 0, 0, 0, \frac{11}{6349}\sqrt{5234}e^{12}, \frac{11}{6349}\sqrt{8490}e^{13}, \frac{22}{6349}\sqrt{313}e^{26},$ $\frac{264}{6349}\sqrt{6}e^{16} + \frac{198}{6349}\sqrt{23}e^{24} + \frac{11}{6349}\sqrt{4082}e^{35}$	$(\frac{220}{6349}, -\frac{363}{6349}, \frac{99}{6349}, \frac{440}{6349}, -\frac{22}{6349}, -\frac{143}{6349}, \frac{319}{6349}, -\frac{506}{6349}, \frac{11}{907})$ $+ \frac{11}{6349}\sqrt{4366}e^3 \otimes e_5 + \frac{374}{6349}\sqrt{7}e^4 \otimes e_7$	{1578, 367}
942:42	$0, 0, 0, 0, 0, \frac{25}{7141}\sqrt{570}e^{12}, \frac{125}{7141}\sqrt{202}e^{13}, \frac{50}{7141}\sqrt{1065}e^{26},$ $\frac{50}{7141}\sqrt{989}e^{16} + \frac{25}{7141}\sqrt{5458}e^{24} + \frac{25}{7141}\sqrt{1826}e^{35}$	$(\frac{275}{7141}, -\frac{175}{7141}, \frac{1075}{7141}, \frac{550}{7141}, \frac{1450}{7141}, \frac{100}{7141}, -\frac{800}{7141}, -\frac{75}{7141}, \frac{375}{7141})$ $+ \frac{50}{7141}\sqrt{1371}e^4 \otimes e_8 + \frac{50}{7141}\sqrt{1931}e^2 \otimes e_7$	{289, 3678}
942:42	$0, 0, 0, 0, 0, \frac{55}{359}\sqrt{5}e^{12}, \frac{121}{359}\sqrt{3}e^{13}, \frac{11}{359}\sqrt{21}e^{26},$ $\frac{55}{359}\sqrt{3}e^{16} + \frac{11}{359}\sqrt{285}e^{24} + \frac{33}{359}\sqrt{19}e^{35}$	$(\frac{55}{359}, -\frac{121}{718}, -\frac{66}{359}, \frac{110}{359}, \frac{231}{718}, -\frac{11}{718}, -\frac{11}{359}, -\frac{66}{359}, \frac{99}{718})$ $- \frac{11}{359}\sqrt{213}e^1 \otimes e_8 + \frac{11}{359}\sqrt{445}e^4 \otimes e_7$	{12679, 157, 235789, 3678}
942:42	$0, 0, 0, 0, 0, \frac{55}{359}\sqrt{5}e^{12}, \frac{121}{359}\sqrt{3}e^{13}, \frac{11}{359}\sqrt{21}e^{26},$ $\frac{55}{359}\sqrt{3}e^{16} + \frac{11}{359}\sqrt{285}e^{24} + \frac{33}{359}\sqrt{19}e^{35}$	$(\frac{55}{359}, -\frac{121}{718}, -\frac{66}{359}, \frac{110}{359}, \frac{231}{718}, -\frac{11}{718}, -\frac{11}{359}, -\frac{66}{359}, \frac{99}{718})$ $+ \frac{11}{359}\sqrt{213}e^1 \otimes e_8 + \frac{11}{359}\sqrt{445}e^4 \otimes e_7$	{12679, 157, 235789, 3678}
942:42	$0, 0, 0, 0, 0, \frac{19}{2127}\sqrt{2370}e^{12}, \frac{19}{2127}\sqrt{4326}e^{13}, \frac{38}{709}\sqrt{55}e^{26},$ $\frac{38}{709}\sqrt{70}e^{16} + \frac{19}{2127}\sqrt{3930}e^{24} + \frac{19}{709}\sqrt{170}e^{35}$	$(\frac{95}{709}, -\frac{133}{709}, \frac{209}{709}, \frac{190}{709}, -\frac{152}{709}, \frac{38}{709}, \frac{304}{709}, -\frac{171}{709}, \frac{57}{709})$ $+ \frac{38}{2127}\sqrt{1353}e^3 \otimes e_5 + \frac{38}{2127}\sqrt{1551}e^4 \otimes e_8$	{3678, 568}
942:42	$0, 0, 0, 0, 0, \frac{25}{7401}\sqrt{830}e^{12}, \frac{25}{7401}\sqrt{4890}e^{13}, \frac{100}{7401}\sqrt{305}e^{26},$ $\frac{25}{7401}\sqrt{4166}e^{16} + \frac{25}{7401}\sqrt{1306}e^{24} + \frac{50}{7401}\sqrt{1282}e^{35}$	$(\frac{200}{2467}, -\frac{275}{2467}, -\frac{425}{7401}, \frac{400}{2467}, \frac{800}{7401}, -\frac{75}{2467}, \frac{175}{7401}, -\frac{350}{2467}, \frac{125}{2467})$ $+ \frac{25}{2467}\sqrt{626}e^5 \otimes e_7 + \frac{25}{7401}\sqrt{8074}e^3 \otimes e_8$	{1345, 24589}
942:42	$0, 0, 0, 0, 0, \frac{33}{343}\sqrt{66}e^{12}, \frac{33}{343}\sqrt{94}e^{13}, \frac{33}{343}\sqrt{38}e^{26},$ $\frac{44}{343}\sqrt{17}e^{16} + \frac{88}{343}\sqrt{15}e^{24} + \frac{44}{343}\sqrt{39}e^{35}$	$(\frac{22}{343}, 0, -\frac{99}{343}, \frac{44}{343}, \frac{143}{343}, \frac{22}{343}, -\frac{11}{343}, \frac{22}{343}, \frac{44}{343})$ $+ \frac{11}{343}\sqrt{362}e^5 \otimes e_8 + \frac{352}{343}e^4 \otimes e_7$	{1578, 367}
942:42	$0, 0, 0, 0, 0, \frac{8}{2271}\sqrt{1106}e^{12}, \frac{8}{2271}\sqrt{27966}e^{13}, \frac{4}{2271}\sqrt{170798}e^{26},$ $\frac{8}{2271}\sqrt{26465}e^{16} + \frac{8}{2271}\sqrt{11929}e^{24} + \frac{52}{2271}\sqrt{790}e^{35}$	$(\frac{104}{757}, -\frac{143}{757}, \frac{718}{2271}, \frac{208}{757}, -\frac{523}{2271}, -\frac{39}{757}, \frac{1030}{2271}, -\frac{182}{757}, \frac{65}{757})$ $+ \frac{4}{2271}\sqrt{307942}e^3 \otimes e_8$	{123469, 1345, 24589, 468}
942:42	$0, 0, 0, 0, 0, \frac{12}{2273}\sqrt{3458}e^{12}, \frac{6}{2273}\sqrt{94430}e^{13}, \frac{6}{2273}\sqrt{36043}e^{26},$ $\frac{6}{2273}\sqrt{55195}e^{16} + \frac{12}{2273}\sqrt{266}e^{24} + \frac{6}{2273}\sqrt{88046}e^{35}$	$(\frac{199}{2273}, \frac{231}{2273}, -\frac{982}{2273}, \frac{398}{2273}, \frac{1611}{2273}, \frac{430}{2273}, -\frac{783}{2273}, \frac{661}{2273}, \frac{629}{2273})$ $+ \frac{42}{2273}\sqrt{5111}e^5 \otimes e_7$	{1345, 147, 234789, 24589}
942:42	$0, 0, 0, 0, 0, \frac{4}{1963}\sqrt{90029}e^{12}, \frac{6}{1963}\sqrt{61070}e^{13}, \frac{12}{1963}\sqrt{2758}e^{26},$ $\frac{394}{1963}\sqrt{6}e^{16} + \frac{2}{1963}\sqrt{582726}e^{24} + \frac{4}{1963}\sqrt{282498}e^{35}$	$(\frac{242}{1963}, -\frac{181}{1963}, -\frac{42}{151}, \frac{484}{1963}, \frac{849}{1963}, \frac{61}{1963}, -\frac{304}{1963}, -\frac{120}{1963}, \frac{303}{1963})$ $+ \frac{2}{1963}\sqrt{721414}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
942:42	$0, 0, 0, 0, 0, \frac{27}{5557}\sqrt{2534}e^{12}, \frac{27}{5557}\sqrt{802}e^{13}, \frac{54}{5557}\sqrt{1319}e^{26},$ $\frac{54}{5557}\sqrt{481}e^{16} + \frac{81}{5557}\sqrt{310}e^{24} + \frac{54}{5557}\sqrt{866}e^{35}$	$(-\frac{216}{5557}, \frac{297}{5557}, \frac{1107}{5557}, -\frac{432}{5557}, \frac{1242}{5557}, \frac{81}{5557}, \frac{891}{5557}, \frac{378}{5557}, -\frac{135}{5557})$ $+ \frac{270}{5557}\sqrt{55}e^3 \otimes e_8 + \frac{27}{5557}\sqrt{4634}e^2 \otimes e_4$	{1278, 23567}
942:42	$0, 0, 0, 0, 0, \frac{47}{4837}\sqrt{2782}e^{12}, \frac{141}{4837}\sqrt{2}e^{13}, \frac{94}{4837}\sqrt{761}e^{26},$ $\frac{752}{4837}\sqrt{3}e^{16} + \frac{235}{4837}\sqrt{86}e^{24} + \frac{282}{4837}\sqrt{69}e^{35}$	$(-\frac{470}{4837}, \frac{1269}{4837}, -\frac{705}{4837}, -\frac{940}{4837}, \frac{1034}{4837}, \frac{799}{4837}, -\frac{1175}{4837}, \frac{2068}{4837}, \frac{47}{691})$ $+ \frac{47}{4837}\sqrt{5122}e^2 \otimes e_4 + \frac{94}{4837}\sqrt{865}e^5 \otimes e_7$	{12358, 1278}
942:42	$0, 0, 0, 0, 0, \frac{1}{546}\sqrt{116590}e^{12}, \frac{1}{273}\sqrt{84495}e^{13}, \frac{1}{273}\sqrt{7205}e^{26},$ $\frac{5}{546}\sqrt{3930}e^{16} + \frac{1}{546}\sqrt{129035}e^{24} + \frac{4}{273}\sqrt{1310}e^{35}$	$(-\frac{3}{364}, \frac{29}{273}, \frac{176}{273}, -\frac{3}{182}, -\frac{101}{182}, \frac{107}{1092}, \frac{695}{1092}, \frac{223}{1092}, \frac{7}{78})$ $+ \frac{1}{546}\sqrt{598015}e^3 \otimes e_5$	{13, 157, 3678, 568}
942:42	$0, 0, 0, 0, 0, \frac{111}{6589}\sqrt{58}e^{12}, \frac{37}{6589}\sqrt{6310}e^{13}, \frac{74}{6589}\sqrt{669}e^{26},$ $\frac{74}{6589}\sqrt{821}e^{16} + \frac{37}{6589}\sqrt{3910}e^{24} + \frac{37}{6589}\sqrt{1946}e^{35}$	$(-\frac{703}{6589}, \frac{1295}{6589}, \frac{629}{6589}, -\frac{1406}{6589}, -\frac{740}{6589}, \frac{592}{6589}, -\frac{74}{6589}, \frac{1887}{6589}, -\frac{111}{6589})$ $+ \frac{74}{6589}\sqrt{1131}e^3 \otimes e_5 + \frac{74}{6589}\sqrt{1889}e^2 \otimes e_7$	{157, 3678}
942:42	$0, 0, 0, 0, 0, \frac{1}{383}\sqrt{12122}e^{12}, \frac{4}{383}\sqrt{4389}e^{13}, \frac{4}{383}\sqrt{3135}e^{26},$ $\frac{1}{383}\sqrt{43890}e^{16} + \frac{16}{383}\sqrt{209}e^{24} + \frac{3}{383}\sqrt{2090}e^{35}$	$(-\frac{36}{383}, \frac{106}{383}, -\frac{67}{383}, -\frac{72}{383}, \frac{101}{383}, \frac{70}{383}, -\frac{103}{383}, \frac{176}{383}, \frac{34}{383})$ $+ \frac{1}{383}\sqrt{136686}e^2 \otimes e_7$	{12348, 146789, 2456, 34579}
942:42	$0, 0, 0, 0, 0, \frac{165}{5821}\sqrt{154}e^{12}, \frac{660}{5821}\sqrt{21}e^{13}, \frac{330}{5821}\sqrt{62}e^{26},$ $\frac{110}{5821}\sqrt{629}e^{16} + \frac{55}{5821}\sqrt{2346}e^{24} + \frac{55}{5821}\sqrt{1158}e^{35}$	$(\frac{1045}{5821}, -\frac{990}{5821}, -\frac{1485}{5821}, \frac{2090}{5821}, \frac{2585}{5821}, \frac{55}{5821}, -\frac{440}{5821}, -\frac{935}{5821}, \frac{1100}{5821})$ $+ \frac{110}{5821}\sqrt{1279}e^5 \otimes e_7 + \frac{55}{5821}\sqrt{5314}e^4 \otimes e_8$	{23789, 2589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:42	$0, 0, 0, 0, 0, \frac{1}{1125}\sqrt{356782}e^{12}, \frac{19}{375}\sqrt{82}e^{13}, \frac{1}{1125}\sqrt{845994}e^{26},$ $\frac{76}{1125}\sqrt{41}e^{16} + \frac{8}{1125}\sqrt{8569}e^{24} + \frac{4}{225}\sqrt{2337}e^{35}$	$(\frac{86}{375}, -\frac{256}{1125}, -\frac{53}{225}, \frac{172}{375}, \frac{7}{15}, \frac{2}{1125}, -\frac{7}{1125}, -\frac{254}{1125}, \frac{52}{225})$ $+ \frac{31}{1125}\sqrt{1558}e^5 \otimes e_8$	{128, 136789, 2356, 579}
942:43	$0, 0, 0, 0, 0, \frac{8}{319}\sqrt{66}e^{12}, \frac{32}{319}\sqrt{3}e^{13}, \frac{16}{319}\sqrt{57}e^{16} + \frac{8}{319}\sqrt{390}e^{23},$ $\frac{16}{319}\sqrt{35}e^{26} + \frac{24}{319}\sqrt{38}e^{45}$	$(-\frac{24}{319}, \frac{56}{319}, -\frac{48}{319}, \frac{136}{319}, -\frac{48}{319}, \frac{32}{319}, -\frac{72}{319}, \frac{8}{319}, \frac{8}{29})$ $+ \frac{32}{319}\sqrt{46}e^4 \otimes e_8 + \frac{8}{319}\sqrt{390}e^2 \otimes e_7$	{128, 479}
942:43	$0, 0, 0, 0, 0, \frac{29}{9045}\sqrt{2834}e^{12}, \frac{29}{335}\sqrt{10}e^{13},$ $\frac{116}{9045}\sqrt{223}e^{16} + \frac{29}{9045}\sqrt{2622}e^{23}, \frac{29}{9045}\sqrt{2202}e^{26} + \frac{116}{9045}\sqrt{331}e^{45}$	$(\frac{29}{1005}, -\frac{58}{1809}, \frac{58}{1005}, \frac{1624}{9045}, -\frac{29}{135}, -\frac{29}{9045}, \frac{29}{335}, \frac{232}{9045}, -\frac{319}{9045})$ $+ \frac{29}{9045}\sqrt{7134}e^4 \otimes e_7 + \frac{29}{9045}\sqrt{9546}e^3 \otimes e_9$	{2489, 469}
942:43	$0, 0, 0, 0, 0, \frac{16}{747}\sqrt{586}e^{12}, \frac{64}{747}\sqrt{57}e^{13}, \frac{32}{747}\sqrt{163}e^{16} + \frac{16}{747}\sqrt{318}e^{23},$ $\frac{32}{249}\sqrt{33}e^{26} + \frac{176}{747}\sqrt{2}e^{45}$	$(-\frac{32}{249}, \frac{224}{747}, -\frac{64}{249}, \frac{176}{747}, \frac{176}{747}, \frac{128}{747}, -\frac{32}{83}, \frac{32}{747}, \frac{352}{747})$ $+ \frac{16}{747}\sqrt{2526}e^2 \otimes e_7$	{123459, 1239, 3478}
942:43	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{417}e^{12}, \frac{3}{287}\sqrt{1946}e^{13}, \frac{2}{287}\sqrt{7923}e^{16} + \frac{3}{287}\sqrt{3614}e^{23},$ $\frac{1}{287}\sqrt{30302}e^{26} + \frac{2}{287}\sqrt{9174}e^{45}$	$(-\frac{9}{287}, \frac{34}{287}, -\frac{18}{287}, \frac{155}{287}, -\frac{96}{287}, \frac{25}{287}, -\frac{27}{287}, \frac{16}{287}, \frac{59}{287})$ $+ \frac{1}{287}\sqrt{69778}e^4 \otimes e_8$	{1234679, 135789, 2345, 368}
942:43	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{481}\sqrt{26}e^{13}, \frac{6}{481}\sqrt{715}e^{16} + \frac{3}{481}\sqrt{3198}e^{23},$ $\frac{3}{481}\sqrt{3406}e^{26} + \frac{6}{481}\sqrt{1326}e^{45}$	$(-\frac{3}{37}, \frac{6}{37}, -\frac{6}{37}, 0, \frac{9}{37}, \frac{3}{37}, -\frac{9}{37}, 0, \frac{9}{37})$ $+ \frac{24}{481}\sqrt{65}e^4 \otimes e_7 + \frac{3}{481}\sqrt{7202}e^5 \otimes e_8$	{1235679, 2345}
942:43	$0, 0, 0, 0, 0, \frac{2}{2961}\sqrt{265430}e^{12}, \frac{22}{2961}\sqrt{12954}e^{13},$ $\frac{2}{2961}\sqrt{216535}e^{16} + \frac{4}{2961}\sqrt{20955}e^{23}, \frac{2}{2961}\sqrt{146685}e^{26} + \frac{2}{2961}\sqrt{1427734}e^{45}$	$(-\frac{95}{987}, \frac{121}{423}, -\frac{190}{987}, \frac{277}{423}, -\frac{530}{2961}, \frac{562}{2961}, -\frac{95}{329}, \frac{277}{2961}, \frac{1409}{2961})$ $+ \frac{2}{2961}\sqrt{3449193}e^4 \otimes e_7$	{1234689, 1349, 2378, 367}
942:43	$0, 0, 0, 0, 0, \frac{4}{2933}\sqrt{72509}e^{16} + \frac{4}{2933}\sqrt{88882}e^{12}, \frac{6}{2933}\sqrt{23390}e^{13},$ $\frac{4}{2933}\sqrt{7017}e^{23}, \frac{4}{2933}\sqrt{49119}e^{26} + \frac{2}{2933}\sqrt{397630}e^{45}$	$(\frac{228}{2933}, \frac{310}{2933}, \frac{456}{2933}, \frac{2763}{2933}, -\frac{1915}{2933}, \frac{538}{2933}, \frac{684}{2933}, \frac{766}{2933}, \frac{848}{2933})$ $+ \frac{4678}{2933}e^4 \otimes e_5$	{124789, 125789, 14679, 15679}
942:43	$0, 0, 0, 0, 0, \frac{16}{1003}\sqrt{586}e^{12}, \frac{64}{1003}\sqrt{57}e^{13},$ $\frac{32}{1003}\sqrt{163}e^{16} + \frac{16}{1003}\sqrt{318}e^{23}, \frac{96}{1003}\sqrt{33}e^{26} + \frac{176}{1003}\sqrt{2}e^{45}$	$(-\frac{96}{1003}, \frac{224}{1003}, -\frac{192}{1003}, \frac{432}{1003}, -\frac{80}{1003}, \frac{128}{1003}, \frac{288}{1003}, \frac{32}{1003}, \frac{352}{1003})$ $+ \frac{16}{1003}\sqrt{2526}e^2 \otimes e_7 + \frac{512}{1003}e^4 \otimes e_5$	{3478, 3578}
942:43	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{219}e^{16} + \frac{87}{5093}\sqrt{398}e^{23}, \frac{29}{5093}\sqrt{974}e^{26} + \frac{58}{5093}\sqrt{930}e^{45}$	$(\frac{261}{5093}, -\frac{290}{5093}, \frac{522}{5093}, \frac{1073}{5093}, -\frac{1392}{5093}, -\frac{29}{5093}, \frac{783}{5093}, \frac{232}{5093}, -\frac{29}{463})$ $+ \frac{29}{5093}\sqrt{4930}e^4 \otimes e_8 + \frac{348}{5093}\sqrt{30}e^3 \otimes e_9$	{23457, 3678}
942:43	$0, 0, 0, 0, 0, \frac{22}{2041}\sqrt{678}e^{16} + \frac{66}{2041}\sqrt{5}e^{23}, \frac{44}{2041}\sqrt{5}e^{26} + \frac{22}{2041}\sqrt{687}e^{45}$	$(\frac{99}{2041}, -\frac{121}{2041}, \frac{198}{2041}, \frac{319}{2041}, -\frac{462}{2041}, -\frac{22}{2041}, \frac{297}{2041}, \frac{77}{2041}, -\frac{11}{157})$ $+ \frac{22}{2041}\sqrt{781}e^4 \otimes e_8 - \frac{66}{2041}\sqrt{115}e^1 \otimes e_9$	{1238, 13456, 2356789, 3479}
942:43	$0, 0, 0, 0, 0, \frac{22}{2041}\sqrt{678}e^{16} + \frac{66}{2041}\sqrt{5}e^{23}, \frac{44}{2041}\sqrt{5}e^{26} + \frac{22}{2041}\sqrt{687}e^{45}$	$(\frac{99}{2041}, -\frac{121}{2041}, \frac{198}{2041}, \frac{319}{2041}, -\frac{462}{2041}, -\frac{22}{2041}, \frac{297}{2041}, \frac{77}{2041}, -\frac{11}{157})$ $+ \frac{22}{2041}\sqrt{781}e^4 \otimes e_8 + \frac{66}{2041}\sqrt{115}e^1 \otimes e_9$	{1238, 13456, 2356789, 3479}
942:43	$0, 0, 0, 0, 0, \frac{29}{1901}\sqrt{739}e^{16} + \frac{29}{1901}\sqrt{777}e^{23}, \frac{319}{1901}\sqrt{6}e^{26} + \frac{29}{1901}\sqrt{745}e^{45}$	$(\frac{261}{1901}, -\frac{290}{1901}, \frac{522}{1901}, \frac{261}{1901}, -\frac{580}{1901}, -\frac{29}{1901}, \frac{783}{1901}, \frac{232}{1901}, -\frac{319}{1901})$ $+ \frac{377}{1901}\sqrt{15}e^3 \otimes e_9 - \frac{841}{1901}e^4 \otimes e_5$	{2489, 2589, 469, 569}
942:43	$0, 0, 0, 0, 0, \frac{29}{1901}\sqrt{739}e^{16} + \frac{29}{1901}\sqrt{777}e^{23}, \frac{319}{1901}\sqrt{6}e^{26} + \frac{29}{1901}\sqrt{745}e^{45}$	$(\frac{261}{1901}, -\frac{290}{1901}, \frac{522}{1901}, \frac{261}{1901}, -\frac{580}{1901}, -\frac{29}{1901}, \frac{783}{1901}, \frac{232}{1901}, -\frac{319}{1901})$ $+ \frac{377}{1901}\sqrt{15}e^3 \otimes e_9 + \frac{841}{1901}e^4 \otimes e_5$	{2489, 2589, 469, 569}
942:43	$0, 0, 0, 0, 0, \frac{58}{2961}\sqrt{739}e^{16} + \frac{58}{2961}\sqrt{777}e^{23}, \frac{638}{2961}\sqrt{6}e^{26} + \frac{58}{2961}\sqrt{745}e^{45}$	$(\frac{58}{329}, -\frac{580}{2961}, \frac{116}{329}, -\frac{319}{2961}, -\frac{319}{2961}, -\frac{58}{2961}, \frac{174}{329}, \frac{464}{2961}, -\frac{638}{2961})$ $+ \frac{754}{2961}\sqrt{15}e^3 \otimes e_9$	{2489, 469}
942:44	$0, 0, 0, 0, 0, \frac{68}{549}\sqrt{6}e^{12}, \frac{34}{549}\sqrt{174}e^{13}, \frac{68}{549}\sqrt{2}e^{14} + \frac{34}{549}\sqrt{67}e^{26},$ $\frac{34}{183}\sqrt{11}e^{16} + \frac{34}{549}\sqrt{158}e^{35}$	$(\frac{17}{183}, \frac{17}{183}, -\frac{238}{549}, \frac{34}{183}, \frac{391}{549}, \frac{34}{183}, -\frac{187}{549}, \frac{17}{61}, \frac{17}{61})$ $+ \frac{34}{549}\sqrt{455}e^5 \otimes e_7$	{135, 17, 23789, 2589}
942:44	$0, 0, 0, 0, 0, \frac{1}{273}\sqrt{25066}e^{12}, \frac{2}{273}\sqrt{8003}e^{13},$ $\frac{2}{273}\sqrt{6191}e^{14} + \frac{2}{273}\sqrt{9815}e^{26}, \frac{1}{273}\sqrt{10570}e^{16} + \frac{1}{273}\sqrt{3322}e^{35}$	$(-\frac{34}{273}, \frac{20}{91}, -\frac{19}{91}, \frac{40}{91}, \frac{7}{39}, \frac{2}{21}, -\frac{1}{3}, \frac{86}{273}, -\frac{8}{273})$ $+ \frac{1}{273}\sqrt{70970}e^2 \otimes e_7$	{12348, 146789, 2456, 34579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:44	$0, 0, 0, 0, 0, \frac{102}{5893}\sqrt{91}e^{12}, \frac{51}{5893}\sqrt{506}e^{13},$ $\frac{51}{5893}\sqrt{2814}e^{14} + \frac{51}{5893}\sqrt{766}e^{26}, \frac{510}{5893}\sqrt{7}e^{16} + \frac{102}{5893}\sqrt{966}e^{35}$	$(-\frac{714}{5893}, \frac{1173}{5893}, -\frac{1071}{5893}, \frac{2346}{5893}, \frac{816}{5893}, \frac{459}{5893}, -\frac{1785}{5893}, \frac{1632}{5893}, -\frac{255}{5893})$ $+ \frac{102}{5893}\sqrt{1070}e^5 \otimes e_7 + \frac{51}{5893}\sqrt{6290}e^4 \otimes e_9$	{13789, 1589}
942:44	$0, 0, 0, 0, 0, \frac{7}{67}e^{12}, \frac{7}{67}\sqrt{38}e^{13}, \frac{21}{67}\sqrt{6}e^{14} + \frac{7}{67}\sqrt{22}e^{26},$ $\frac{7}{67}\sqrt{31}e^{16} + \frac{7}{67}\sqrt{47}e^{35}$	$(-\frac{29}{134}, \frac{20}{67}, \frac{5}{67}, \frac{40}{67}, -\frac{14}{67}, \frac{11}{134}, -\frac{19}{134}, \frac{51}{134}, -\frac{9}{67})$ $+ \frac{7}{67}\sqrt{115}e^4 \otimes e_9$	{134567, 146, 3458, 478}
942:44	$0, 0, 0, 0, 0, \frac{61}{8373}\sqrt{2714}e^{12}, \frac{61}{8373}\sqrt{6818}e^{13},$ $\frac{122}{8373}\sqrt{635}e^{14} + \frac{854}{8373}\sqrt{2}e^{26}, \frac{3050}{8373}e^{16} + \frac{61}{8373}\sqrt{1034}e^{35}$	$(-\frac{488}{2791}, \frac{1769}{8373}, \frac{427}{2791}, \frac{3538}{8373}, -\frac{2440}{8373}, \frac{305}{8373}, -\frac{61}{2791}, \frac{2074}{8373}, -\frac{1159}{8373})$ $+ \frac{1220}{8373}\sqrt{21}e^4 \otimes e_7 + \frac{61}{8373}\sqrt{7130}e^3 \otimes e_5$	{134, 4568}
942:44	$0, 0, 0, 0, 0, \frac{112}{547}\sqrt{3}e^{12}, \frac{72}{547}\sqrt{14}e^{13}, \frac{72}{547}\sqrt{14}e^{14} + \frac{8}{547}\sqrt{1407}e^{26},$ $\frac{8}{547}\sqrt{1526}e^{16} + \frac{8}{547}\sqrt{1407}e^{35}$	$(\frac{50}{547}, -\frac{45}{547}, \frac{184}{547}, -\frac{90}{547}, -\frac{129}{547}, \frac{5}{547}, \frac{234}{547}, -\frac{40}{547}, \frac{55}{547})$ $+ \frac{40}{547}\sqrt{133}e^3 \otimes e_8$	{123469, 1345, 24589, 468}
942:44	$0, 0, 0, 0, 0, \frac{23}{7117}\sqrt{4694}e^{12}, \frac{23}{7117}\sqrt{4738}e^{13},$ $\frac{23}{7117}\sqrt{4586}e^{14} + \frac{23}{7117}\sqrt{3670}e^{26}, \frac{69}{7117}\sqrt{190}e^{16} + \frac{23}{7117}\sqrt{1798}e^{35}$	$(\frac{299}{7117}, -\frac{115}{7117}, -\frac{943}{7117}, -\frac{230}{7117}, \frac{1426}{7117}, \frac{184}{7117}, -\frac{644}{7117}, \frac{69}{7117}, \frac{483}{7117})$ $+ \frac{230}{7117}\sqrt{61}e^1 \otimes e_4 + \frac{46}{7117}\sqrt{1770}e^2 \otimes e_7$	{2469, 347}
942:44	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{273}e^{12}, \frac{87}{5093}\sqrt{70}e^{13},$ $\frac{87}{5093}\sqrt{398}e^{14} + \frac{29}{5093}\sqrt{1506}e^{26}, \frac{58}{5093}\sqrt{401}e^{16} + \frac{58}{5093}\sqrt{930}e^{35}$	$(-\frac{290}{5093}, \frac{261}{5093}, \frac{1073}{5093}, \frac{522}{5093}, -\frac{1392}{5093}, \frac{29}{5093}, \frac{783}{5093}, \frac{232}{5093}, -\frac{29}{463})$ $+ \frac{58}{5093}\sqrt{1390}e^3 \otimes e_8 + \frac{87}{5093}\sqrt{410}e^4 \otimes e_9$	{1345, 468}
942:44	$0, 0, 0, 0, 0, \frac{11}{5943}\sqrt{538}e^{12}, \frac{44}{5943}\sqrt{263}e^{13},$ $\frac{22}{5943}\sqrt{46}e^{14} + \frac{44}{5943}\sqrt{317}e^{26}, \frac{11}{5943}\sqrt{3514}e^{16} + \frac{11}{5943}\sqrt{2054}e^{35}$	$(-\frac{220}{5943}, \frac{66}{1981}, \frac{99}{1981}, \frac{132}{1981}, -\frac{77}{849}, -\frac{22}{5943}, \frac{11}{849}, \frac{176}{5943}, -\frac{242}{5943})$ $+ \frac{11}{5943}\sqrt{5030}e^2 \otimes e_7 + \frac{22}{849}\sqrt{30}e^3 \otimes e_8$	{156789, 379}
942:44	$0, 0, 0, 0, 0, \frac{1}{96}\sqrt{190}e^{12}, \frac{1}{96}\sqrt{1270}e^{13}, \frac{1}{96}\sqrt{1270}e^{14} + \frac{1}{96}\sqrt{210}e^{26},$ $\frac{1}{96}\sqrt{330}e^{16} + \frac{1}{96}\sqrt{210}e^{35}$	$(-\frac{5}{96}, \frac{3}{64}, \frac{3}{32}, \frac{3}{32}, -\frac{29}{192}, -\frac{1}{192}, \frac{1}{24}, \frac{1}{24}, -\frac{11}{192})$ $- \frac{1}{192}\sqrt{1370}e^4 \otimes e_7 + \frac{1}{192}\sqrt{2210}e^3 \otimes e_8$	{123469, 1345, 24589, 468}
942:44	$0, 0, 0, 0, 0, \frac{1}{96}\sqrt{190}e^{12}, \frac{1}{96}\sqrt{1270}e^{13}, \frac{1}{96}\sqrt{1270}e^{14} + \frac{1}{96}\sqrt{210}e^{26},$ $\frac{1}{96}\sqrt{330}e^{16} + \frac{1}{96}\sqrt{210}e^{35}$	$(-\frac{5}{96}, \frac{3}{64}, \frac{3}{32}, \frac{3}{32}, -\frac{29}{192}, -\frac{1}{192}, \frac{1}{24}, \frac{1}{24}, -\frac{11}{192})$ $+ \frac{1}{192}\sqrt{1370}e^4 \otimes e_7 + \frac{1}{192}\sqrt{2210}e^3 \otimes e_8$	{123469, 1345, 24589, 468}
942:44	$0, 0, 0, 0, 0, \frac{41}{6303}\sqrt{1474}e^{12}, \frac{41}{6303}\sqrt{638}e^{13},$ $\frac{164}{6303}\sqrt{305}e^{14} + \frac{41}{6303}\sqrt{2242}e^{26}, \frac{164}{6303}\sqrt{215}e^{16} + \frac{82}{6303}\sqrt{914}e^{35}$	$(\frac{82}{2101}, \frac{164}{6303}, -\frac{533}{2101}, \frac{328}{6303}, \frac{205}{573}, \frac{410}{6303}, -\frac{41}{191}, \frac{574}{6303}, \frac{656}{6303})$ $+ \frac{41}{6303}\sqrt{7070}e^5 \otimes e_8 + \frac{82}{6303}\sqrt{1110}e^4 \otimes e_7$	{1345, 468}
942:44	$0, 0, 0, 0, 0, \frac{25}{233}\sqrt{22}e^{12}, \frac{25}{233}\sqrt{22}e^{13}, \frac{5}{233}\sqrt{330}e^{14} + \frac{5}{233}\sqrt{770}e^{26},$ $\frac{5}{233}\sqrt{110}e^{16} + \frac{5}{233}\sqrt{110}e^{35}$	$(-\frac{35}{233}, \frac{55}{233}, -\frac{35}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{115}e^4 \otimes e_9 + \frac{10}{233}\sqrt{390}e^2 \otimes e_7$	{123458, 246}
942:44	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{110}e^{12}, \frac{5}{233}\sqrt{110}e^{13}, \frac{25}{233}\sqrt{22}e^{14} + \frac{25}{233}\sqrt{22}e^{26},$ $\frac{5}{233}\sqrt{330}e^{16} + \frac{5}{233}\sqrt{770}e^{35}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, -\frac{70}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{15}{233}, \frac{75}{233})$ $+ \frac{10}{233}\sqrt{115}e^1 \otimes e_4 + \frac{10}{233}\sqrt{390}e^5 \otimes e_8$	{128, 136789}
942:44	$0, 0, 0, 0, 0, \frac{17}{8397}\sqrt{2418}e^{12}, \frac{17}{8397}\sqrt{602}e^{13},$ $\frac{17}{8397}\sqrt{3070}e^{14} + \frac{17}{8397}\sqrt{4570}e^{26}, \frac{68}{8397}\sqrt{366}e^{16} + \frac{68}{8397}\sqrt{359}e^{35}$	$(\frac{170}{2799}, -\frac{17}{311}, -\frac{119}{8397}, -\frac{34}{311}, \frac{680}{8397}, \frac{17}{2799}, \frac{391}{8397}, -\frac{136}{2799}, \frac{187}{2799})$ $+ \frac{17}{8397}\sqrt{5870}e^5 \otimes e_7 + \frac{17}{8397}\sqrt{9690}e^3 \otimes e_8$	{1345, 24589}
942:44	$0, 0, 0, 0, 0, \frac{53}{7237}\sqrt{2618}e^{12}, \frac{53}{7237}\sqrt{4702}e^{13},$ $\frac{53}{7237}\sqrt{3242}e^{14} + \frac{53}{7237}\sqrt{418}e^{26}, \frac{159}{7237}\sqrt{358}e^{16} + \frac{53}{7237}\sqrt{2230}e^{35}$	$(\frac{1007}{7237}, -\frac{901}{7237}, \frac{1961}{7237}, -\frac{1802}{7237}, -\frac{848}{7237}, \frac{106}{7237}, \frac{2968}{7237}, -\frac{795}{7237}, \frac{1113}{7237})$ $+ \frac{106}{7237}\sqrt{1290}e^3 \otimes e_5 + \frac{212}{7237}\sqrt{505}e^1 \otimes e_4$	{347, 45}
942:44	$0, 0, 0, 0, 0, \frac{391}{7117}\sqrt{2}e^{12}, \frac{23}{7117}\sqrt{3170}e^{13},$ $\frac{69}{7117}\sqrt{662}e^{14} + \frac{23}{7117}\sqrt{1034}e^{26}, \frac{23}{7117}\sqrt{926}e^{16} + \frac{23}{7117}\sqrt{6110}e^{35}$	$(-\frac{115}{7117}, \frac{299}{7117}, -\frac{943}{7117}, \frac{598}{7117}, \frac{92}{647}, \frac{184}{7117}, -\frac{1058}{7117}, \frac{483}{7117}, \frac{69}{7117})$ $+ \frac{230}{7117}\sqrt{61}e^4 \otimes e_9 + \frac{46}{7117}\sqrt{1770}e^5 \otimes e_8$	{13457, 4678}
942:44	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{42}e^{12}, \frac{7}{37}\sqrt{6}e^{13}, \frac{2}{37}\sqrt{42}e^{14} + \frac{7}{37}\sqrt{6}e^{26},$ $\frac{4}{37}\sqrt{14}e^{16} + \frac{6}{37}\sqrt{7}e^{35}$	$(\frac{5}{37}, -\frac{9}{74}, \frac{10}{37}, -\frac{9}{37}, -\frac{9}{74}, \frac{1}{74}, \frac{15}{37}, -\frac{4}{37}, \frac{11}{74})$ $+ \frac{10}{37}\sqrt{7}e^3 \otimes e_8 + \frac{1}{37}\sqrt{210}e^1 \otimes e_4$	{24589, 468}
942:44	$0, 0, 0, 0, 0, \frac{1}{273}\sqrt{3322}e^{12}, \frac{1}{273}\sqrt{10570}e^{13},$ $\frac{2}{273}\sqrt{8003}e^{14} + \frac{1}{273}\sqrt{25066}e^{26}, \frac{2}{273}\sqrt{6191}e^{16} + \frac{2}{273}\sqrt{9815}e^{35}$	$(\frac{20}{91}, -\frac{34}{273}, -\frac{19}{91}, -\frac{68}{273}, \frac{11}{21}, \frac{2}{91}, -\frac{8}{273}, \frac{86}{273})$ $+ \frac{1}{273}\sqrt{70970}e^5 \otimes e_8$	{124569, 13457, 23489, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:44	$0, 0, 0, 0, 0, \frac{13}{277} \sqrt{14}e^{12}, \frac{13}{277} \sqrt{38}e^{13}, \frac{156}{277} e^{14} + \frac{26}{277} \sqrt{13}e^{26},$ $\frac{26}{277} \sqrt{19}e^{16} + \frac{13}{277} \sqrt{122}e^{35}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{78}{277}, -\frac{39}{277})$ $-\frac{26}{277} \sqrt{85}e^4 \otimes e_9 + \frac{65}{277} \sqrt{6}e^3 \otimes e_5$	{13789, 1589, 369, 5679}
942:44	$0, 0, 0, 0, 0, \frac{13}{277} \sqrt{14}e^{12}, \frac{13}{277} \sqrt{38}e^{13}, \frac{156}{277} e^{14} + \frac{26}{277} \sqrt{13}e^{26},$ $\frac{26}{277} \sqrt{19}e^{16} + \frac{13}{277} \sqrt{122}e^{35}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, \frac{78}{277}, -\frac{39}{277})$ $+\frac{26}{277} \sqrt{85}e^4 \otimes e_9 + \frac{65}{277} \sqrt{6}e^3 \otimes e_5$	{13789, 1589, 369, 5679}
942:44	$0, 0, 0, 0, 0, \frac{7}{67} \sqrt{47}e^{12}, \frac{7}{67} \sqrt{31}e^{13}, \frac{7}{67} \sqrt{38}e^{14} + \frac{7}{67} e^{26},$ $\frac{21}{67} \sqrt{6}e^{16} + \frac{7}{67} \sqrt{22}e^{35}$	$(\frac{20}{67}, -\frac{29}{134}, \frac{5}{67}, -\frac{29}{67}, \frac{41}{134}, \frac{11}{67}, \frac{25}{67}, -\frac{9}{67}, \frac{51}{134})$ $+\frac{7}{67} \sqrt{115}e^1 \otimes e_4$	{2345679, 2469, 347, 45}
942:44	$0, 0, 0, 0, 0, \frac{8}{523} \sqrt{1541}e^{12}, \frac{4}{523} \sqrt{11859}e^{13},$ $\frac{4}{523} \sqrt{11859}e^{14} + \frac{4}{523} \sqrt{201}e^{26}, \frac{12}{523} \sqrt{670}e^{16} + \frac{4}{523} \sqrt{201}e^{35}$	$(-\frac{94}{523}, \frac{173}{523}, -\frac{96}{523}, \frac{346}{523}, \frac{81}{523}, \frac{79}{523}, -\frac{190}{523}, \frac{252}{523}, -\frac{15}{523})$ $+\frac{4}{523} \sqrt{29815}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
942:44	$0, 0, 0, 0, 0, \frac{43}{7717} \sqrt{2482}e^{12}, \frac{43}{7717} \sqrt{6582}e^{13},$ $\frac{43}{7717} \sqrt{3734}e^{14} + \frac{43}{7717} \sqrt{5318}e^{26}, \frac{129}{7717} \sqrt{214}e^{16} + \frac{387}{7717} \sqrt{14}e^{35}$	$(-\frac{1075}{7717}, \frac{1247}{7717}, \frac{473}{7717}, \frac{2494}{7717}, -\frac{1376}{7717}, \frac{172}{7717}, -\frac{602}{7717}, \frac{1419}{7717}, -\frac{903}{7717})$ $+\frac{172}{7717} \sqrt{565}e^2 \otimes e_7 + \frac{86}{7717} \sqrt{1285}e^3 \otimes e_5$	{12348, 2456}
942:44	$0, 0, 0, 0, 0, \frac{102}{5893} \sqrt{538}e^{12}, \frac{102}{5893} \sqrt{817}e^{13},$ $\frac{51}{5893} \sqrt{2218}e^{14} + \frac{102}{5893} \sqrt{123}e^{26}, \frac{51}{5893} \sqrt{1958}e^{16} + \frac{153}{5893} \sqrt{10}e^{35}$	$(\frac{1173}{5893}, -\frac{714}{5893}, \frac{1071}{5893}, -\frac{1428}{5893}, \frac{2703}{5893}, \frac{459}{5893}, \frac{102}{5893}, -\frac{255}{5893}, \frac{1632}{5893})$ $+\frac{102}{5893} \sqrt{1070}e^5 \otimes e_7 + \frac{51}{5893} \sqrt{6290}e^1 \otimes e_4$	{234679, 24569}
942:44	$0, 0, 0, 0, 0, \frac{2}{33} \sqrt{41}e^{12}, \frac{2}{33} \sqrt{287}e^{13}, \frac{1}{33} \sqrt{205}e^{14} + \frac{1}{33} \sqrt{287}e^{26},$ $\frac{1}{33} \sqrt{205}e^{16} + \frac{2}{33} \sqrt{41}e^{35}$	$(-\frac{1}{22}, \frac{4}{33}, \frac{7}{11}, \frac{8}{33}, -\frac{20}{33}, \frac{5}{66}, \frac{13}{22}, \frac{13}{66}, \frac{1}{33})$ $+\frac{1}{33} \sqrt{2255}e^3 \otimes e_5$	{13, 157, 3678, 568}
942:45	$0, 0, 0, 0, 0, \frac{8}{2309} \sqrt{12873}e^{12}, \frac{8}{2309} \sqrt{15938}e^{13},$ $\frac{2}{2309} \sqrt{334085}e^{16} + \frac{2}{2309} \sqrt{564573}e^{24}, \frac{2}{2309} \sqrt{406419}e^{26} + \frac{4}{2309} \sqrt{130569}e^{35}$	$(-\frac{296}{2309}, \frac{407}{2309}, \frac{1041}{2309}, -\frac{592}{2309}, -\frac{523}{2309}, \frac{111}{2309}, \frac{745}{2309}, -\frac{185}{2309}, \frac{518}{2309})$ $+\frac{12}{2309} \sqrt{33715}e^3 \otimes e_8$	{123469, 145789, 23457, 468}
942:45	$0, 0, 0, 0, 0, \frac{10}{267} \sqrt{6}e^{12}, \frac{8}{267} \sqrt{114}e^{13}, \frac{4}{89} \sqrt{33}e^{16} + \frac{2}{89} \sqrt{86}e^{24},$ $\frac{4}{267} \sqrt{291}e^{26} + \frac{2}{267} \sqrt{930}e^{35}$	$(-\frac{8}{89}, \frac{10}{89}, \frac{10}{89}, -\frac{16}{89}, \frac{2}{89}, \frac{2}{89}, \frac{2}{89}, -\frac{6}{89}, \frac{12}{89})$ $+\frac{10}{267} \sqrt{78}e^2 \otimes e_7 + \frac{8}{267} \sqrt{66}e^3 \otimes e_5$	{12368, 157}
942:45	$0, 0, 0, 0, 0, \frac{360}{3073} \sqrt{3}e^{12}, \frac{120}{3073} \sqrt{23}e^{13},$ $\frac{30}{3073} \sqrt{221}e^{16} + \frac{30}{3073} \sqrt{1205}e^{24}, \frac{30}{3073} \sqrt{331}e^{26} + \frac{60}{3073} \sqrt{253}e^{35}$	$(\frac{120}{3073}, -\frac{165}{3073}, \frac{75}{439}, \frac{240}{3073}, -\frac{105}{439}, -\frac{45}{3073}, \frac{645}{3073}, \frac{75}{3073}, -\frac{30}{439})$ $+\frac{120}{3073} \sqrt{73}e^4 \otimes e_9 + \frac{60}{3073} \sqrt{407}e^3 \otimes e_8$	{23457, 468}
942:45	$0, 0, 0, 0, 0, \frac{8}{2071} \sqrt{29045}e^{12}, \frac{24}{2071} \sqrt{5587}e^{13},$ $\frac{72}{2071} \sqrt{370}e^{16} + \frac{24}{2071} \sqrt{4921}e^{24}, \frac{40}{2071} \sqrt{111}e^{26} + \frac{8}{2071} \sqrt{15207}e^{35}$	$(\frac{23}{109}, -\frac{286}{2071}, -\frac{747}{2071}, \frac{46}{109}, \frac{612}{2071}, \frac{151}{2071}, -\frac{310}{2071}, \frac{588}{2071}, -\frac{135}{2071})$ $+\frac{8}{2071} \sqrt{69190}e^4 \otimes e_7$	{125678, 157, 235789, 35679}
942:45	$0, 0, 0, 0, 0, \frac{8}{2239} \sqrt{57478}e^{12}, \frac{8}{2239} \sqrt{10382}e^{13},$ $\frac{16}{2239} \sqrt{435}e^{16} + \frac{8}{2239} \sqrt{32190}e^{24}, \frac{8}{2239} \sqrt{56434}e^{26} + \frac{8}{2239} \sqrt{8990}e^{35}$	$(-\frac{513}{2239}, \frac{830}{2239}, \frac{663}{2239}, -\frac{1026}{2239}, \frac{484}{2239}, \frac{317}{2239}, \frac{150}{2239}, -\frac{196}{2239}, \frac{1147}{2239})$ $+\frac{16}{2239} \sqrt{27695}e^2 \otimes e_4$	{1345679, 1469, 34, 457}
942:45	$0, 0, 0, 0, 0, \frac{3}{67} \sqrt{35}e^{12}, \frac{3}{67} \sqrt{17}e^{13}, \frac{3}{67} \sqrt{35}e^{16} + \frac{3}{67} \sqrt{111}e^{24},$ $\frac{3}{67} \sqrt{65}e^{26} + \frac{18}{67} \sqrt{2}e^{35}$	$(\frac{3}{134}, \frac{3}{67}, -\frac{33}{134}, \frac{3}{67}, \frac{24}{67}, \frac{9}{134}, -\frac{15}{67}, \frac{6}{67}, \frac{15}{134})$ $+\frac{30}{67} e^4 \otimes e_7 + \frac{3}{67} \sqrt{145}e^5 \otimes e_8$	{13489, 468}
942:45	$0, 0, 0, 0, 0, \frac{27}{283} \sqrt{22}e^{16} + \frac{162}{1415} \sqrt{22}e^{24}, \frac{54}{1415} \sqrt{110}e^{26} + \frac{27}{1415} \sqrt{814}e^{35}$	$(-\frac{216}{1415}, \frac{297}{1415}, \frac{594}{1415}, -\frac{432}{1415}, -\frac{216}{1415}, \frac{81}{1415}, \frac{378}{1415}, -\frac{27}{283}, \frac{378}{1415})$ $+\frac{27}{1415} \sqrt{1994}e^3 \otimes e_8 + \frac{27}{1415} \sqrt{454}e^2 \otimes e_4$	{145789, 468}
942:45	$0, 0, 0, 0, 0, \frac{17}{1551} \sqrt{202}e^{12}, \frac{17}{1551} \sqrt{1506}e^{13},$ $\frac{34}{1551} \sqrt{213}e^{16} + \frac{68}{517} \sqrt{7}e^{24}, \frac{170}{1551} \sqrt{30}e^{26} + \frac{34}{517} \sqrt{33}e^{35}$	$(-\frac{85}{517}, \frac{119}{517}, \frac{221}{517}, -\frac{170}{517}, -\frac{68}{517}, \frac{34}{517}, \frac{136}{517}, -\frac{51}{517}, \frac{153}{517})$ $+\frac{17}{1551} \sqrt{3354}e^3 \otimes e_5 + \frac{17}{1551} \sqrt{5010}e^2 \otimes e_4$	{2367, 256}
942:45	$0, 0, 0, 0, 0, \frac{2}{231} \sqrt{30}e^{12}, \frac{2}{231} \sqrt{582}e^{13}, \frac{2}{231} \sqrt{690}e^{16} + \frac{2}{231} \sqrt{894}e^{24},$ $\frac{2}{231} \sqrt{570}e^{26} + \frac{4}{231} \sqrt{327}e^{35}$	$(\frac{4}{77}, -\frac{2}{77}, -\frac{2}{11}, \frac{8}{77}, \frac{2}{11}, \frac{2}{77}, -\frac{10}{77}, \frac{6}{77}, 0)$ $+\frac{16}{231} \sqrt{15}e^4 \otimes e_9 + \frac{2}{231} \sqrt{1590}e^5 \otimes e_8$	{2345, 4678}
942:45	$0, 0, 0, 0, 0, \frac{44}{2153} \sqrt{87}e^{12}, \frac{44}{2153} \sqrt{38}e^{13},$ $\frac{22}{2153} \sqrt{665}e^{16} + \frac{22}{2153} \sqrt{57}e^{24}, \frac{22}{2153} \sqrt{51}e^{26} + \frac{132}{2153} \sqrt{19}e^{35}$	$(\frac{88}{2153}, -\frac{121}{2153}, \frac{297}{2153}, \frac{176}{2153}, -\frac{451}{2153}, -\frac{33}{2153}, \frac{385}{2153}, \frac{55}{2153}, -\frac{154}{2153})$ $-\frac{44}{2153} \sqrt{255}e^1 \otimes e_9 + \frac{660}{2153} e^3 \otimes e_8$	{1278, 1356, 25689, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:45	$0, 0, 0, 0, 0, \frac{44}{2153}\sqrt{87e^{12}}, \frac{44}{2153}\sqrt{38e^{13}},$ $\frac{22}{2153}\sqrt{665e^{16}} + \frac{22}{2153}\sqrt{57e^{24}}, \frac{22}{2153}\sqrt{51e^{26}} + \frac{132}{2153}\sqrt{19e^{35}}$	$(\frac{88}{2153}, -\frac{121}{2153}, \frac{297}{2153}, \frac{176}{2153}, -\frac{451}{2153}, -\frac{33}{2153}, \frac{385}{2153}, \frac{55}{2153}, -\frac{154}{2153})$ $+ \frac{44}{2153}\sqrt{255e^1} \otimes e_9 + \frac{660}{2153}e^3 \otimes e_8$	{1278, 1356, 25689, 379}
942:45	$0, 0, 0, 0, 0, \frac{6}{385}\sqrt{70e^{12}}, \frac{24}{385}\sqrt{38e^{13}}, \frac{12}{55}e^{16} + \frac{6}{385}\sqrt{534e^{24}},$ $\frac{12}{385}\sqrt{51e^{26}} + \frac{18}{385}\sqrt{2e^{35}}$	$(-\frac{48}{385}, \frac{6}{35}, \frac{6}{55}, -\frac{96}{385}, \frac{6}{55}, \frac{18}{385}, -\frac{6}{385}, -\frac{6}{77}, \frac{12}{55})$ $+ \frac{24}{385}\sqrt{38e^3} \otimes e_8 + \frac{6}{385}\sqrt{782e^2} \otimes e_7$	{289, 35679}
942:45	$0, 0, 0, 0, 0, \frac{2}{231}\sqrt{30e^{12}}, \frac{8}{77}\sqrt{7e^{13}}, \frac{20}{77}e^{16} + \frac{2}{231}\sqrt{894e^{24}},$ $\frac{4}{231}\sqrt{255e^{26}} + \frac{2}{231}\sqrt{282e^{35}}$	$(\frac{4}{77}, -\frac{2}{77}, -\frac{2}{11}, \frac{8}{77}, \frac{2}{11}, \frac{2}{77}, -\frac{10}{77}, \frac{6}{77}, 0)$ $+ \frac{16}{231}\sqrt{15e^4} \otimes e_9 + \frac{2}{231}\sqrt{1590e^2} \otimes e_7$	{289, 35679}
942:45	$0, 0, 0, 0, 0, \frac{54}{6737}\sqrt{1162e^{12}}, \frac{27}{6737}\sqrt{8714e^{13}},$ $\frac{27}{6737}\sqrt{4958e^{16}} + \frac{162}{6737}\sqrt{158e^{24}}, \frac{27}{6737}\sqrt{930e^{26}} + \frac{27}{6737}\sqrt{3062e^{35}}$	$(\frac{675}{6737}, -\frac{756}{6737}, -\frac{54}{6737}, \frac{1350}{6737}, -\frac{783}{6737}, -\frac{81}{6737}, \frac{621}{6737}, \frac{594}{6737}, -\frac{837}{6737})$ $+ \frac{27}{6737}\sqrt{5086e^3} \otimes e_5 + \frac{27}{6737}\sqrt{7930e^4} \otimes e_7$	{125678, 157}
942:45	$0, 0, 0, 0, 0, \frac{12}{5375}\sqrt{201e^{12}}, \frac{3}{5375}\sqrt{4714e^{13}},$ $\frac{36}{5375}\sqrt{7e^{16}} + \frac{12}{5375}\sqrt{345e^{24}}, \frac{3}{5375}\sqrt{1586e^{26}} + \frac{24}{5375}\sqrt{13e^{35}}$	$(\frac{48}{5375}, -\frac{66}{5375}, \frac{39}{5375}, \frac{96}{5375}, -\frac{123}{5375}, -\frac{18}{5375}, \frac{87}{5375}, \frac{1075}{1075}, -\frac{84}{5375})$ $+ \frac{3}{5375}\sqrt{5038e^3} \otimes e_8 + \frac{3}{5375}\sqrt{5126e^4} \otimes e_7$	{1256789, 3567}
942:45	$0, 0, 0, 0, 0, \frac{2}{437}\sqrt{17990e^{12}}, \frac{2}{437}\sqrt{57054e^{13}},$ $\frac{2}{437}\sqrt{22873e^{16}} + \frac{2}{437}\sqrt{14649e^{24}}, \frac{2}{437}\sqrt{14649e^{26}} + \frac{2}{437}\sqrt{17990e^{35}}$	$(\frac{6}{437}, \frac{25}{437}, \frac{15}{23}, \frac{12}{437}, -\frac{229}{437}, \frac{31}{437}, \frac{291}{437}, \frac{37}{437}, \frac{56}{437})$ $+ \frac{8}{437}\sqrt{5911e^3} \otimes e_5$	{12368, 125678, 13, 157}
942:45	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{15e^{12}}, \frac{1}{15}\sqrt{57e^{13}}, \frac{3}{5}e^{16} + \frac{1}{5}\sqrt{5e^{24}},$ $\frac{1}{5}\sqrt{7e^{26}} + \frac{4}{15}\sqrt{6e^{35}}$	$(-\frac{1}{10}, \frac{1}{5}, -\frac{1}{10}, -\frac{1}{5}, \frac{2}{5}, \frac{1}{10}, -\frac{1}{5}, 0, \frac{3}{10})$ $+ \frac{2}{15}\sqrt{3e^2} \otimes e_4 + \frac{7}{15}\sqrt{3e^5} \otimes e_8$	{128, 23689}
942:45	$0, 0, 0, 0, 0, \frac{52}{3365}\sqrt{349e^{12}}, \frac{52}{3365}\sqrt{545e^{13}},$ $\frac{104}{3365}\sqrt{107e^{16}} + \frac{52}{3365}\sqrt{842e^{24}}, \frac{52}{3365}\sqrt{237e^{26}} + \frac{52}{3365}\sqrt{861e^{35}}$	$(\frac{572}{3365}, -\frac{78}{673}, -\frac{1066}{3365}, \frac{1144}{3365}, \frac{858}{3365}, \frac{182}{3365}, -\frac{494}{3365}, \frac{754}{3365}, -\frac{208}{3365})$ $+ \frac{52}{3365}\sqrt{1379e^5} \otimes e_7 + \frac{52}{3365}\sqrt{1646e^4} \otimes e_9$	{23789, 2589, 3679, 569}
942:45	$0, 0, 0, 0, 0, \frac{52}{3365}\sqrt{349e^{12}}, \frac{52}{3365}\sqrt{545e^{13}},$ $\frac{104}{3365}\sqrt{107e^{16}} + \frac{52}{3365}\sqrt{842e^{24}}, \frac{52}{3365}\sqrt{237e^{26}} + \frac{52}{3365}\sqrt{861e^{35}}$	$(\frac{572}{3365}, -\frac{78}{673}, -\frac{1066}{3365}, \frac{1144}{3365}, \frac{858}{3365}, \frac{182}{3365}, -\frac{494}{3365}, \frac{754}{3365}, -\frac{208}{3365})$ $- \frac{52}{3365}\sqrt{1379e^5} \otimes e_7 + \frac{52}{3365}\sqrt{1646e^4} \otimes e_9$	{23789, 2589, 3679, 569}
942:45	$0, 0, 0, 0, 0, \frac{8}{2329}\sqrt{10330e^{12}}, \frac{4}{2329}\sqrt{19627e^{13}},$ $\frac{2}{2329}\sqrt{304735e^{16}} + \frac{2}{2329}\sqrt{819169e^{24}}, \frac{18}{2329}\sqrt{5165e^{26}} + \frac{4}{2329}\sqrt{159082e^{35}}$	$(\frac{768}{2329}, -\frac{649}{2329}, -\frac{303}{2329}, \frac{1536}{2329}, -\frac{227}{2329}, \frac{7}{137}, \frac{465}{2329}, \frac{887}{2329}, -\frac{530}{2329})$ $+ \frac{4}{2329}\sqrt{501005e^4} \otimes e_9$	{23789, 2589, 3679, 569}
942:45	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210e^{12}}, \frac{8}{139}\sqrt{133e^{13}}, \frac{4}{139}\sqrt{385e^{16}} + \frac{18}{139}\sqrt{14e^{24}},$ $\frac{4}{139}\sqrt{455e^{26}} + \frac{2}{139}\sqrt{1162e^{35}}$	$(-\frac{12}{139}, \frac{26}{139}, -\frac{18}{139}, -\frac{24}{139}, \frac{58}{139}, \frac{14}{139}, -\frac{30}{139}, \frac{2}{139}, \frac{40}{139})$ $+ \frac{14}{139}\sqrt{70e^2} \otimes e_7$	{123459, 146789, 2456, 3478}
942:45	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210e^{12}}, \frac{2}{139}\sqrt{1302e^{13}}, \frac{6}{139}\sqrt{210e^{16}} + \frac{18}{139}\sqrt{14e^{24}},$ $\frac{2}{139}\sqrt{1610e^{26}} + \frac{36}{139}\sqrt{7e^{35}}$	$(-\frac{12}{139}, \frac{26}{139}, -\frac{18}{139}, -\frac{24}{139}, \frac{58}{139}, \frac{14}{139}, -\frac{30}{139}, \frac{2}{139}, \frac{40}{139})$ $+ \frac{14}{139}\sqrt{70e^5} \otimes e_8$	{128, 13567, 23689, 579}
942:45	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{41e^{12}}, \frac{2}{17}\sqrt{19e^{13}}, \frac{1}{17}\sqrt{57e^{16}} + \frac{1}{17}\sqrt{79e^{24}},$ $\frac{4}{17}\sqrt{3e^{26}} + \frac{1}{17}\sqrt{21e^{35}}$	$(\frac{3}{17}, -\frac{3}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{6}{17}, 0, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17})$ $+ \frac{1}{17}\sqrt{119e^3} \otimes e_5 + \frac{1}{17}\sqrt{155e^4} \otimes e_9$	{23789, 2589, 3679, 569}
942:45	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{41e^{12}}, \frac{2}{17}\sqrt{19e^{13}}, \frac{1}{17}\sqrt{57e^{16}} + \frac{1}{17}\sqrt{79e^{24}},$ $\frac{4}{17}\sqrt{3e^{26}} + \frac{1}{17}\sqrt{21e^{35}}$	$(\frac{3}{17}, -\frac{3}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{6}{17}, 0, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17})$ $+ \frac{1}{17}\sqrt{119e^3} \otimes e_5 - \frac{1}{17}\sqrt{155e^4} \otimes e_9$	{23789, 2589, 3679, 569}
942:46	$0, 0, 0, 0, 0, \frac{16}{4119}\sqrt{138e^{12}}, \frac{16}{4119}\sqrt{1955e^{13}},$ $\frac{32}{4119}\sqrt{305e^{14}} + \frac{16}{4119}\sqrt{643e^{26}}, \frac{32}{4119}\sqrt{97e^{16}} + \frac{16}{4119}\sqrt{1909e^{45}}$	$(\frac{112}{4119}, -\frac{184}{4119}, \frac{56}{1373}, -\frac{368}{4119}, \frac{136}{1373}, -\frac{24}{1373}, \frac{280}{4119}, -\frac{256}{4119}, \frac{40}{4119})$ $+ \frac{16}{4119}\sqrt{1802e^3} \otimes e_9 + \frac{32}{4119}\sqrt{499e^5} \otimes e_7$	{2589, 3678}
942:46	$0, 0, 0, 0, 0, \frac{1}{96}\sqrt{190e^{12}}, \frac{13}{192}\sqrt{10e^{13}}, \frac{5}{192}\sqrt{34e^{14}} + \frac{1}{96}\sqrt{210e^{26}},$ $\frac{1}{96}\sqrt{330e^{16}} + \frac{1}{96}\sqrt{210e^{45}}$	$(-\frac{5}{96}, \frac{3}{64}, \frac{3}{32}, \frac{3}{32}, -\frac{29}{192}, -\frac{1}{192}, \frac{1}{24}, \frac{1}{24}, -\frac{11}{192})$ $+ \frac{1}{192}\sqrt{1790e^3} \otimes e_8 + \frac{1}{192}\sqrt{1790e^4} \otimes e_7$	{123469, 1345, 2489, 4568}
942:46	$0, 0, 0, 0, 0, \frac{1}{96}\sqrt{190e^{12}}, \frac{13}{192}\sqrt{10e^{13}}, \frac{5}{192}\sqrt{34e^{14}} + \frac{1}{96}\sqrt{210e^{26}},$ $\frac{1}{96}\sqrt{330e^{16}} + \frac{1}{96}\sqrt{210e^{45}}$	$(-\frac{5}{96}, \frac{3}{64}, \frac{3}{32}, \frac{3}{32}, -\frac{29}{192}, -\frac{1}{192}, \frac{1}{24}, \frac{1}{24}, -\frac{11}{192})$ $+ \frac{1}{192}\sqrt{1790e^3} \otimes e_8 - \frac{1}{192}\sqrt{1790e^4} \otimes e_7$	{123469, 1345, 2489, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:46	$0, 0, 0, 0, 0, \frac{21}{523}\sqrt{61}e^{12}, \frac{28}{523}\sqrt{57}e^{13}, \frac{14}{523}\sqrt{327}e^{14} + \frac{189}{523}e^{26},$ $\frac{21}{523}\sqrt{115}e^{16} + \frac{189}{523}e^{45}$	$(\frac{21}{1046}, \frac{56}{523}, -\frac{273}{1046}, \frac{112}{523}, -\frac{35}{523}, \frac{133}{1046}, -\frac{126}{523}, \frac{245}{1046}, \frac{77}{523})$ $+ \frac{7}{523}\sqrt{1095}e^4 \otimes e_5 + \frac{7}{523}\sqrt{1887}e^1 \otimes e_3$	{146, 348}
942:46	$0, 0, 0, 0, 0, \frac{11}{157}\sqrt{51}e^{12}, \frac{11}{157}\sqrt{37}e^{13}, \frac{11}{157}\sqrt{33}e^{14} + \frac{33}{157}\sqrt{6}e^{26},$ $\frac{11}{314}\sqrt{30}e^{16} + \frac{99}{314}e^{45}$	$(\frac{33}{628}, \frac{33}{314}, -\frac{209}{628}, \frac{33}{157}, 0, \frac{99}{628}, -\frac{44}{157}, \frac{165}{628}, \frac{33}{157})$ $+ \frac{11}{314}\sqrt{142}e^1 \otimes e_3 + \frac{99}{314}\sqrt{5}e^2 \otimes e_7$	{146789, 3479}
942:46	$0, 0, 0, 0, 0, \frac{1}{330}\sqrt{330}e^{12}, \frac{1}{165}\sqrt{365}e^{13}, \frac{1}{165}\sqrt{115}e^{14} + \frac{1}{330}\sqrt{1570}e^{26},$ $\frac{1}{66}\sqrt{38}e^{16} + \frac{1}{330}\sqrt{565}e^{45}$	$(-\frac{19}{660}, \frac{3}{110}, \frac{9}{220}, \frac{3}{55}, -\frac{14}{165}, -\frac{1}{660}, \frac{2}{165}, \frac{17}{660}, -\frac{1}{33})$ $+ \frac{1}{330}\sqrt{1310}e^3 \otimes e_8 + \frac{1}{330}\sqrt{1705}e^2 \otimes e_7$	{146789, 3479}
942:46	$0, 0, 0, 0, 0, \frac{6}{319}\sqrt{138}e^{12}, \frac{6}{319}\sqrt{1955}e^{13}, \frac{3}{319}\sqrt{3979}e^{14} + \frac{3}{319}\sqrt{3473}e^{26},$ $\frac{3}{319}\sqrt{4255}e^{16} + \frac{6}{319}\sqrt{1909}e^{45}$	$(\frac{137}{638}, -\frac{16}{319}, -\frac{245}{638}, -\frac{32}{319}, \frac{153}{319}, \frac{105}{638}, -\frac{54}{319}, \frac{73}{638}, \frac{11}{29})$ $+ \frac{3}{319}\sqrt{12489}e^5 \otimes e_7$	{123569, 17, 2589, 3678}
942:46	$0, 0, 0, 0, 0, \frac{8}{781}\sqrt{1830}e^{12}, \frac{4}{781}\sqrt{6710}e^{13}, \frac{32}{781}\sqrt{671}e^{14} + \frac{20}{781}\sqrt{366}e^{26},$ $\frac{8}{781}\sqrt{305}e^{16} + \frac{20}{781}\sqrt{366}e^{45}$	$(-\frac{10}{71}, \frac{252}{781}, \frac{172}{781}, \frac{504}{781}, -\frac{472}{781}, \frac{2}{11}, \frac{62}{781}, \frac{394}{781}, \frac{32}{781})$ $+ \frac{16}{781}\sqrt{5063}e^4 \otimes e_5$	{13578, 158, 356, 567}
942:46	$0, 0, 0, 0, 0, \frac{280}{3851}\sqrt{5}e^{12}, \frac{28}{3851}\sqrt{1045}e^{13},$ $\frac{28}{3851}\sqrt{758}e^{14} + \frac{364}{3851}\sqrt{5}e^{26}, \frac{28}{3851}\sqrt{1266}e^{16} + \frac{28}{3851}\sqrt{1453}e^{45}$	$(\frac{266}{3851}, -\frac{42}{3851}, \frac{742}{3851}, -\frac{84}{3851}, \frac{574}{3851}, \frac{224}{3851}, \frac{476}{3851}, \frac{182}{3851}, \frac{490}{3851})$ $+ \frac{112}{3851}\sqrt{114}e^4 \otimes e_7 + \frac{56}{3851}\sqrt{431}e^5 \otimes e_8$	{1345, 2489}
942:46	$0, 0, 0, 0, 0, \frac{24}{485}\sqrt{66}e^{12}, \frac{12}{485}\sqrt{255}e^{13}, \frac{12}{485}\sqrt{390}e^{14} + \frac{36}{485}e^{26},$ $\frac{12}{485}\sqrt{258}e^{16} + \frac{36}{485}e^{45}$	$(\frac{18}{97}, -\frac{42}{485}, -\frac{126}{485}, -\frac{84}{485}, \frac{222}{485}, \frac{48}{485}, -\frac{36}{485}, \frac{6}{485}, \frac{138}{485})$ $+ \frac{24}{485}\sqrt{195}e^1 \otimes e_3 + \frac{48}{485}\sqrt{33}e^5 \otimes e_8$	{168, 23569}
942:46	$0, 0, 0, 0, 0, \frac{10}{41}\sqrt{6}e^{12}, \frac{10}{41}\sqrt{5}e^{13}, \frac{5}{41}\sqrt{21}e^{14} + \frac{5}{41}\sqrt{15}e^{26},$ $\frac{5}{41}\sqrt{33}e^{16} + \frac{10}{41}\sqrt{3}e^{45}$	$(\frac{15}{82}, 0, -\frac{35}{82}, 0, \frac{15}{82}, \frac{15}{82}, -\frac{10}{82}, \frac{15}{82}, \frac{15}{41})$ $+ \frac{15}{41}e^5 \otimes e_7 + \frac{40}{41}e^1 \otimes e_3$	{12459, 2345689}
942:46	$0, 0, 0, 0, 0, \frac{26}{2969}\sqrt{502}e^{12}, \frac{52}{2969}\sqrt{226}e^{13},$ $\frac{26}{2969}\sqrt{517}e^{14} + \frac{26}{2969}\sqrt{1430}e^{26}, \frac{52}{2969}\sqrt{201}e^{16} + \frac{26}{2969}\sqrt{901}e^{45}$	$(\frac{221}{2969}, -\frac{39}{2969}, -\frac{598}{2969}, -\frac{78}{2969}, \frac{481}{2969}, \frac{182}{2969}, \frac{377}{2969}, \frac{143}{2969}, \frac{403}{2969})$ $+ \frac{52}{2969}\sqrt{269}e^5 \otimes e_8 + \frac{598}{2969}\sqrt{3}e^2 \otimes e_7$	{146789, 2456}
942:46	$0, 0, 0, 0, 0, \frac{90}{659}\sqrt{14}e^{12}, \frac{6}{659}\sqrt{4290}e^{13}, \frac{6}{659}\sqrt{3855}e^{14} + \frac{12}{659}\sqrt{1335}e^{26},$ $\frac{12}{659}\sqrt{570}e^{16} + \frac{78}{659}\sqrt{15}e^{45}$	$(\frac{11}{659}, \frac{93}{659}, -\frac{188}{659}, \frac{186}{659}, -\frac{71}{659}, \frac{104}{659}, -\frac{177}{659}, \frac{197}{659}, \frac{115}{659})$ $+ \frac{18}{659}\sqrt{935}e^2 \otimes e_7$	{123458, 146789, 2456, 3479}
942:46	$0, 0, 0, 0, 0, \frac{8}{1045}\sqrt{606}e^{12}, \frac{8}{1045}\sqrt{1311}e^{13},$ $\frac{16}{1045}\sqrt{285}e^{14} + \frac{8}{1045}\sqrt{1131}e^{26}, \frac{16}{1045}\sqrt{66}e^{16} + \frac{8}{1045}\sqrt{957}e^{45}$	$(-\frac{64}{1045}, \frac{84}{1045}, \frac{52}{1045}, \frac{168}{1045}, -\frac{212}{1045}, \frac{4}{209}, -\frac{12}{1045}, \frac{104}{1045}, -\frac{4}{95})$ $+ \frac{16}{1045}\sqrt{417}e^2 \otimes e_7 + \frac{8}{1045}\sqrt{1146}e^3 \otimes e_9$	{123458, 146789}
942:46	$0, 0, 0, 0, 0, \frac{150}{1603}\sqrt{14}e^{12}, \frac{100}{1603}\sqrt{46}e^{13},$ $\frac{100}{1603}\sqrt{65}e^{14} + \frac{50}{1603}\sqrt{142}e^{26}, \frac{25}{1603}\sqrt{683}e^{16} + \frac{25}{1603}\sqrt{31}e^{45}$	$(-\frac{325}{3206}, \frac{100}{1603}, \frac{1325}{3206}, \frac{200}{1603}, -\frac{425}{1603}, -\frac{125}{3206}, \frac{500}{1603}, \frac{75}{3206}, -\frac{225}{1603})$ $+ \frac{25}{1603}\sqrt{1145}e^4 \otimes e_5 + \frac{25}{1603}\sqrt{1797}e^3 \otimes e_8$	{134, 468}
942:46	$0, 0, 0, 0, 0, \frac{360}{2519}\sqrt{11}e^{12}, \frac{60}{2519}\sqrt{1069}e^{13},$ $\frac{420}{2519}\sqrt{10}e^{14} + \frac{60}{2519}\sqrt{937}e^{26}, \frac{60}{2519}\sqrt{782}e^{16} + \frac{60}{2519}\sqrt{221}e^{45}$	$(-\frac{10}{2519}, -\frac{170}{2519}, \frac{1450}{2519}, -\frac{340}{2519}, \frac{150}{2519}, -\frac{180}{2519}, \frac{1440}{2519}, -\frac{350}{2519}, -\frac{190}{2519})$ $+ \frac{120}{2519}\sqrt{537}e^3 \otimes e_8$	{123469, 1345, 2489, 4568}
942:46	$0, 0, 0, 0, 0, \frac{360}{2519}\sqrt{11}e^{12}, \frac{60}{2519}\sqrt{1069}e^{13},$ $\frac{420}{2519}\sqrt{10}e^{14} + \frac{60}{2519}\sqrt{221}e^{26}, \frac{60}{2519}\sqrt{782}e^{16} + \frac{60}{2519}\sqrt{937}e^{45}$	$(-\frac{10}{2519}, \frac{546}{2519}, -\frac{698}{2519}, \frac{1092}{2519}, -\frac{566}{2519}, \frac{536}{2519}, -\frac{708}{2519}, \frac{1082}{2519}, \frac{526}{2519})$ $+ \frac{120}{2519}\sqrt{537}e^4 \otimes e_7$	{123469, 1345, 2489, 4568}
942:46	$0, 0, 0, 0, 0, \frac{88}{2855}\sqrt{14}e^{12}, \frac{44}{2855}\sqrt{685}e^{13},$ $\frac{44}{2855}\sqrt{190}e^{14} + \frac{44}{2855}\sqrt{669}e^{26}, \frac{44}{2855}\sqrt{222}e^{16} + \frac{1452}{2855}e^{45}$	$(\frac{22}{571}, -\frac{286}{2855}, \frac{902}{2855}, -\frac{572}{2855}, \frac{506}{2855}, -\frac{176}{2855}, \frac{1012}{2855}, -\frac{462}{2855}, -\frac{66}{2855})$ $+ \frac{264}{2855}\sqrt{35}e^3 \otimes e_9 + \frac{88}{2855}\sqrt{317}e^5 \otimes e_8$	{125679, 3678}
942:46	$0, 0, 0, 0, 0, \frac{17}{706}\sqrt{438}e^{12}, \frac{17}{706}\sqrt{598}e^{13}, \frac{17}{706}\sqrt{526}e^{14} + \frac{17}{353}\sqrt{186}e^{26},$ $\frac{17}{353}\sqrt{5}e^{16} + \frac{51}{706}\sqrt{39}e^{45}$	$(\frac{17}{1412}, \frac{51}{353}, -\frac{391}{1412}, \frac{102}{353}, -\frac{85}{706}, \frac{221}{1412}, -\frac{187}{706}, \frac{425}{1412}, \frac{119}{706})$ $+ \frac{17}{706}\sqrt{26}e^4 \otimes e_5 + \frac{51}{706}\sqrt{131}e^2 \otimes e_7$	{146789, 3479}
942:46	$0, 0, 0, 0, 0, \frac{8}{865}\sqrt{581}e^{12}, \frac{4}{865}\sqrt{7885}e^{13},$ $\frac{4}{865}\sqrt{10790}e^{14} + \frac{4}{865}\sqrt{27141}e^{26}, \frac{4}{865}\sqrt{20418}e^{16} + \frac{4}{865}\sqrt{27141}e^{45}$	$(\frac{38}{173}, -\frac{158}{865}, \frac{46}{865}, -\frac{316}{865}, \frac{538}{865}, \frac{32}{865}, \frac{236}{865}, -\frac{126}{865}, \frac{222}{865})$ $+ \frac{8}{865}\sqrt{15023}e^5 \otimes e_8$	{1345, 1457, 234789, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:46	$0, 0, 0, 0, 0, \frac{9}{164} \sqrt{14}e^{12}, \frac{3}{82} \sqrt{427}e^{13}, \frac{3}{82} \sqrt{329}e^{14} + \frac{3}{82} \sqrt{119}e^{26},$ $\frac{3}{164} \sqrt{658}e^{16} + \frac{15}{164} \sqrt{70}e^{45}$	$(-\frac{29}{328}, \frac{3}{82}, \frac{103}{164}, \frac{3}{41}, -\frac{35}{164}, -\frac{17}{328}, \frac{177}{328}, -\frac{5}{328}, -\frac{23}{164})$ $+ \frac{21}{164} \sqrt{78}e^3 \otimes e_9$	{124789, 134568, 2469, 3457}
942:46	$0, 0, 0, 0, 0, \frac{16}{265} \sqrt{33}e^{12}, \frac{32}{265} \sqrt{2}e^{13}, \frac{16}{53} \sqrt{3}e^{14} + \frac{16}{265} \sqrt{30}e^{26},$ $\frac{16}{265} \sqrt{42}e^{16} + \frac{16}{265} \sqrt{3}e^{45}$	$(\frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{24}{265}, \frac{48}{265}, -\frac{16}{53}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{16}{265} \sqrt{139}e^1 \otimes e_3 + \frac{48}{265} \sqrt{11}e^4 \otimes e_7$	{1249, 1456, 234689, 3458}
942:46	$0, 0, 0, 0, 0, \frac{16}{265} \sqrt{33}e^{12}, \frac{32}{265} \sqrt{2}e^{13}, \frac{16}{53} \sqrt{3}e^{14} + \frac{16}{265} \sqrt{30}e^{26},$ $\frac{16}{265} \sqrt{42}e^{16} + \frac{16}{265} \sqrt{3}e^{45}$	$(\frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{24}{265}, \frac{48}{265}, -\frac{16}{53}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{16}{265} \sqrt{139}e^1 \otimes e_3 - \frac{48}{265} \sqrt{11}e^4 \otimes e_7$	{1249, 1456, 234689, 3458}
942:46	$0, 0, 0, 0, 0, \frac{13}{539} \sqrt{42}e^{12}, \frac{26}{49} e^{13}, \frac{26}{539} \sqrt{22}e^{14} + \frac{26}{539} \sqrt{13}e^{26},$ $\frac{13}{539} \sqrt{202}e^{16} + \frac{13}{539} \sqrt{470}e^{45}$	$(-\frac{13}{98}, \frac{65}{539}, \frac{260}{539}, \frac{130}{539}, -\frac{208}{539}, -\frac{13}{1078}, \frac{377}{1078}, \frac{117}{1078}, -\frac{78}{539})$ $+ \frac{13}{539} \sqrt{1254}e^3 \otimes e_9 + \frac{26}{539} \sqrt{158}e^4 \otimes e_5$	{1579, 5689}
942:46	$0, 0, 0, 0, 0, \frac{8}{773} \sqrt{3894}e^{12}, \frac{4}{773} \sqrt{16343}e^{13},$ $\frac{4}{773} \sqrt{15222}e^{14} + \frac{12}{773} \sqrt{1239}e^{26}, \frac{4}{773} \sqrt{23010}e^{16} + \frac{12}{773} \sqrt{1239}e^{45}$	$(\frac{138}{773}, \frac{6}{773}, -\frac{334}{773}, \frac{12}{773}, \frac{270}{773}, \frac{144}{773}, -\frac{196}{773}, \frac{150}{773}, \frac{282}{773})$ $+ \frac{8}{773} \sqrt{10207}e^1 \otimes e_3$	{12459, 146, 2345689, 348}
942:46	$0, 0, 0, 0, 0, \frac{72}{383} e^{12}, \frac{12}{383} \sqrt{157}e^{13}, \frac{12}{383} \sqrt{14}e^{14} + \frac{12}{383} \sqrt{29}e^{26},$ $\frac{12}{383} \sqrt{38}e^{16} + \frac{12}{383} \sqrt{145}e^{45}$	$(-\frac{34}{383}, \frac{42}{383}, \frac{46}{383}, \frac{84}{383}, -\frac{110}{383}, \frac{8}{383}, \frac{12}{383}, \frac{50}{383}, -\frac{26}{383})$ $+ \frac{24}{383} \sqrt{42}e^3 \otimes e_9 + \frac{72}{383} \sqrt{5}e^4 \otimes e_7$	{125679, 3678}
942:46	$0, 0, 0, 0, 0, \frac{10}{547} \sqrt{102}e^{12}, \frac{20}{547} \sqrt{102}e^{13}, \frac{15}{547} \sqrt{15}e^{14} + \frac{15}{547} \sqrt{109}e^{26},$ $\frac{15}{547} \sqrt{119}e^{16} + \frac{60}{547} \sqrt{7}e^{45}$	$(\frac{85}{1094}, -\frac{50}{547}, \frac{35}{1094}, -\frac{100}{547}, \frac{135}{547}, -\frac{15}{1094}, \frac{60}{547}, -\frac{115}{1094}, \frac{35}{547})$ $+ \frac{10}{547} \sqrt{366}e^3 \otimes e_8 + \frac{5}{547} \sqrt{1545}e^5 \otimes e_7$	{123569, 2589}
942:47	$0, 0, 0, 0, 0, \frac{35}{363} \sqrt{3}e^{12}, \frac{7}{363} \sqrt{381}e^{13}, \frac{7}{363} \sqrt{195}e^{16} + \frac{7}{363} \sqrt{93}e^{24},$ $\frac{7}{363} \sqrt{105}e^{26} + \frac{14}{363} \sqrt{165}e^{45}$	$(-\frac{14}{121}, \frac{7}{121}, \frac{49}{121}, -\frac{28}{121}, \frac{28}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{21}{121}, 0)$ $+ \frac{7}{363} \sqrt{915}e^5 \otimes e_8 + \frac{91}{363} \sqrt{6}e^3 \otimes e_9$	{123456, 4689}
942:47	$0, 0, 0, 0, 0, \frac{7}{157} \sqrt{74}e^{12}, \frac{2}{157} \sqrt{1106}e^{13}, \frac{2}{157} \sqrt{105}e^{16} + \frac{1}{157} \sqrt{7518}e^{24},$ $\frac{4}{157} \sqrt{91}e^{26} + \frac{7}{157} \sqrt{34}e^{45}$	$(\frac{7}{157}, -\frac{14}{157}, \frac{49}{157}, \frac{14}{157}, \frac{35}{157}, -\frac{7}{157}, \frac{56}{157}, 0, -\frac{21}{157})$ $+ \frac{1}{157} \sqrt{8162}e^3 \otimes e_8 + \frac{4}{157} \sqrt{385}e^4 \otimes e_5$	{258, 3567}
942:47	$0, 0, 0, 0, 0, \frac{8}{319} \sqrt{66}e^{12}, \frac{24}{319} \sqrt{38}e^{13}, \frac{72}{319} \sqrt{2}e^{16} + \frac{8}{319} \sqrt{390}e^{24},$ $\frac{40}{319} \sqrt{10}e^{26} + \frac{32}{319} \sqrt{3}e^{45}$	$(-\frac{24}{319}, \frac{56}{319}, -\frac{48}{319}, -\frac{48}{319}, \frac{136}{319}, \frac{32}{319}, -\frac{72}{319}, \frac{8}{319}, \frac{8}{29})$ $+ \frac{16}{319} \sqrt{195}e^2 \otimes e_7 + \frac{8}{319} \sqrt{346}e^5 \otimes e_8$	{123459, 3478}
942:47	$0, 0, 0, 0, 0, \frac{2}{2449} \sqrt{965082}e^{12}, \frac{4}{2449} \sqrt{148733}e^{13},$ $\frac{2}{2449} \sqrt{1021614}e^{16} + \frac{2}{2449} \sqrt{652137}e^{24}, \frac{12}{2449} \sqrt{4711}e^{26} + \frac{26}{2449} \sqrt{2019}e^{45}$	$(\frac{381}{2449}, \frac{87}{2449}, -\frac{965}{2449}, \frac{762}{2449}, -\frac{207}{2449}, \frac{468}{2449}, -\frac{584}{2449}, \frac{849}{2449}, \frac{555}{2449})$ $+ \frac{2}{2449} \sqrt{1446277}e^1 \otimes e_3$	{12458, 1456, 234689, 349}
942:47	$0, 0, 0, 0, 0, \frac{33}{8345} \sqrt{1654}e^{12}, \frac{1947}{8345} \sqrt{2}e^{13},$ $\frac{33}{8345} \sqrt{2542}e^{16} + \frac{231}{8345} \sqrt{14}e^{24}, \frac{198}{8345} \sqrt{74}e^{26} + \frac{66}{8345} \sqrt{1226}e^{45}$	$(-\frac{726}{8345}, \frac{99}{1669}, \frac{1353}{8345}, -\frac{1452}{8345}, \frac{1716}{8345}, -\frac{231}{8345}, \frac{627}{8345}, -\frac{957}{8345}, \frac{264}{8345})$ $+ \frac{33}{8345} \sqrt{7022}e^5 \otimes e_7 + \frac{33}{8345} \sqrt{8354}e^3 \otimes e_9$	{1234568, 1345}
942:47	$0, 0, 0, 0, 0, \frac{54}{5971} \sqrt{221}e^{12}, \frac{27}{5971} \sqrt{5014}e^{13},$ $\frac{54}{5971} \sqrt{554}e^{16} + \frac{162}{5971} \sqrt{138}e^{24}, \frac{54}{5971} \sqrt{555}e^{26} + \frac{27}{5971} \sqrt{2082}e^{45}$	$(-\frac{486}{5971}, \frac{513}{5971}, \frac{270}{5971}, -\frac{972}{5971}, \frac{216}{853}, \frac{27}{5971}, -\frac{216}{5971}, -\frac{459}{5971}, \frac{540}{5971})$ $+ \frac{54}{5971} \sqrt{1153}e^3 \otimes e_8 + \frac{54}{5971} \sqrt{1597}e^2 \otimes e_7$	{289, 3679}
942:47	$0, 0, 0, 0, 0, \frac{10}{2581} \sqrt{6349}e^{12}, \frac{8}{2581} \sqrt{60769}e^{13},$ $\frac{4}{2581} \sqrt{104305}e^{16} + \frac{2}{2581} \sqrt{135143}e^{24}, \frac{6}{2581} \sqrt{86165}e^{26} + \frac{50}{2581} \sqrt{907}e^{45}$	$(-\frac{39}{2581}, -\frac{133}{2581}, \frac{1509}{2581}, -\frac{78}{2581}, -\frac{227}{2581}, -\frac{172}{2581}, \frac{1470}{2581}, -\frac{211}{2581}, -\frac{305}{2581})$ $+ \frac{2}{2581} \sqrt{1979981}e^3 \otimes e_9$	{1234568, 1345, 2489, 469}
942:47	$0, 0, 0, 0, 0, \frac{47}{6637} \sqrt{2354}e^{12}, \frac{188}{6637} \sqrt{321}e^{13},$ $\frac{94}{6637} \sqrt{55}e^{16} + \frac{47}{6637} \sqrt{3142}e^{24}, \frac{188}{6637} \sqrt{79}e^{26} + \frac{47}{6637} \sqrt{1646}e^{45}$	$(-\frac{893}{6637}, \frac{846}{6637}, \frac{1269}{6637}, -\frac{1786}{6637}, \frac{2585}{6637}, -\frac{47}{6637}, \frac{376}{6637}, -\frac{940}{6637}, \frac{799}{6637})$ $+ \frac{47}{6637} \sqrt{6458}e^3 \otimes e_8 + \frac{940}{6637} \sqrt{14}e^5 \otimes e_7$	{14789, 4568}
942:47	$0, 0, 0, 0, 0, \frac{46}{1301} \sqrt{183}e^{12}, \frac{46}{1301} \sqrt{67}e^{13},$ $\frac{23}{1301} \sqrt{114}e^{16} + \frac{23}{1301} \sqrt{138}e^{24}, \frac{138}{1301} \sqrt{14}e^{26} + \frac{23}{1301} \sqrt{114}e^{45}$	$(\frac{69}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{138}{1301}, \frac{207}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{345}{1301} \sqrt{6}e^2 \otimes e_7 + \frac{46}{1301} \sqrt{238}e^1 \otimes e_3$	{1679, 357}
942:47	$0, 0, 0, 0, 0, \frac{2}{3713} \sqrt{1135}e^{12}, \frac{2}{3713} \sqrt{1765}e^{13},$ $\frac{2}{3713} \sqrt{447}e^{16} + \frac{2}{3713} \sqrt{115}e^{24}, \frac{44}{3713} e^{26} + \frac{2}{3713} \sqrt{259}e^{45}$	$(\frac{17}{3713}, -\frac{21}{3713}, \frac{15}{3713}, \frac{34}{3713}, -\frac{59}{3713}, -\frac{4}{3713}, \frac{32}{3713}, \frac{13}{3713}, -\frac{25}{3713})$ $+ \frac{2}{3713} \sqrt{1933}e^4 \otimes e_7 + \frac{4}{3713} \sqrt{395}e^3 \otimes e_8$	{1256789, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:47	$0, 0, 0, 0, 0, \frac{2}{2413}\sqrt{558797}e^{12}, \frac{10}{2413}\sqrt{21885}e^{13},$ $\frac{4}{2413}\sqrt{132769}e^{16} + \frac{48}{2413}\sqrt{2918}e^{24}, \frac{2}{2413}\sqrt{83163}e^{26} + \frac{2}{2413}\sqrt{348701}e^{45}$	$(\frac{750}{2413}, -\frac{334}{2413}, \frac{3}{2413}, \frac{1500}{2413}, -\frac{1418}{2413}, \frac{416}{2413}, \frac{753}{2413}, \frac{1166}{2413}, \frac{82}{2413})$ $+ \frac{2}{2413}\sqrt{2969065}e^4 \otimes e_5$	{23578, 258, 3567, 56}
942:47	$0, 0, 0, 0, 0, \frac{3}{221}\sqrt{2730}e^{12}, \frac{24}{221}\sqrt{26}e^{13}, \frac{12}{221}\sqrt{182}e^{16} + \frac{3}{221}\sqrt{1534}e^{24},$ $\frac{3}{221}\sqrt{546}e^{26} + \frac{3}{221}\sqrt{910}e^{45}$	$(\frac{3}{17}, 0, -\frac{6}{17}, \frac{6}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17})$ $+ \frac{3}{221}\sqrt{4342}e^1 \otimes e_3 + \frac{3}{221}\sqrt{754}e^4 \otimes e_5$	{234689, 349}
942:47	$0, 0, 0, 0, 0, \frac{2}{2569}\sqrt{206210}e^{12}, \frac{2}{2569}\sqrt{1162054}e^{13},$ $\frac{6}{2569}\sqrt{18195}e^{16} + \frac{4}{2569}\sqrt{6065}e^{24}, \frac{2}{2569}\sqrt{127365}e^{26} + \frac{2}{2569}\sqrt{1089274}e^{45}$	$(-\frac{225}{2569}, \frac{723}{2569}, -\frac{530}{2569}, -\frac{450}{2569}, \frac{1671}{2569}, \frac{498}{2569}, -\frac{755}{2569}, \frac{39}{367}, \frac{1221}{2569})$ $+ \frac{2}{2569}\sqrt{2597033}e^5 \otimes e_7$	{1246789, 1479, 2458, 456}
942:47	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{114}e^{12}, \frac{3}{49}\sqrt{38}e^{13}, \frac{1}{49}\sqrt{1482}e^{16} + \frac{1}{49}\sqrt{570}e^{24},$ $\frac{5}{49}\sqrt{38}e^{26} + \frac{6}{49}\sqrt{38}e^{45}$	$(-\frac{9}{49}, \frac{11}{49}, \frac{12}{49}, -\frac{18}{49}, \frac{31}{49}, \frac{2}{49}, \frac{3}{49}, -\frac{1}{7}, \frac{13}{49})$ $+ \frac{1}{49}\sqrt{3154}e^5 \otimes e_8$	{12378, 128, 359, 579}
942:47	$0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{25757}e^{12}, \frac{6}{1259}\sqrt{17970}e^{13},$ $\frac{1}{1259}\sqrt{535506}e^{16} + \frac{1}{1259}\sqrt{552278}e^{24}, \frac{12}{1259}\sqrt{4193}e^{26} + \frac{1}{1259}\sqrt{319866}e^{45}$	$(-\frac{15}{1259}, \frac{208}{1259}, -\frac{376}{1259}, -\frac{30}{1259}, \frac{431}{1259}, \frac{193}{1259}, -\frac{391}{1259}, \frac{178}{1259}, \frac{401}{1259})$ $+ \frac{1}{1259}\sqrt{1311810}e^2 \otimes e_7$	{123459, 1456789, 246, 3478}
942:47	$0, 0, 0, 0, 0, \frac{15}{1481}\sqrt{521}e^{12}, \frac{15}{1481}\sqrt{737}e^{13},$ $\frac{15}{1481}\sqrt{71}e^{16} + \frac{135}{1481}\sqrt{13}e^{24}, \frac{75}{1481}\sqrt{23}e^{26} + \frac{90}{1481}\sqrt{23}e^{45}$	$(-\frac{30}{1481}, \frac{135}{1481}, -\frac{255}{1481}, -\frac{60}{1481}, \frac{300}{1481}, \frac{105}{1481}, \frac{285}{1481}, \frac{75}{1481}, \frac{240}{1481})$ $+ \frac{15}{1481}\sqrt{1201}e^5 \otimes e_8 + \frac{15}{1481}\sqrt{1534}e^4 \otimes e_7$	{13489, 245}
942:47	$0, 0, 0, 0, 0, \frac{34}{581}\sqrt{35}e^{12}, \frac{136}{581}\sqrt{6}e^{13}, \frac{34}{581}\sqrt{55}e^{16} + \frac{153}{581}\sqrt{2}e^{24},$ $\frac{68}{581}\sqrt{15}e^{26} + \frac{17}{581}\sqrt{130}e^{45}$	$(\frac{51}{581}, -\frac{68}{581}, \frac{204}{581}, \frac{102}{581}, -\frac{187}{581}, -\frac{17}{581}, \frac{255}{581}, \frac{34}{581}, -\frac{85}{581})$ $+ \frac{17}{581}\sqrt{370}e^4 \otimes e_5 + \frac{51}{581}\sqrt{74}e^3 \otimes e_9$	{2589, 569}
942:47	$0, 0, 0, 0, 0, \frac{26}{6677}\sqrt{43}e^{12}, \frac{26}{6677}\sqrt{1474}e^{13},$ $\frac{13}{6677}\sqrt{4162}e^{16} + \frac{13}{6677}\sqrt{2470}e^{24}, \frac{52}{6677}\sqrt{321}e^{26} + \frac{13}{6677}\sqrt{362}e^{45}$	$(-\frac{273}{6677}, \frac{208}{6677}, \frac{312}{6677}, -\frac{546}{6677}, \frac{689}{6677}, -\frac{65}{6677}, \frac{39}{6677}, -\frac{338}{6677}, \frac{13}{607})$ $+ \frac{104}{6677}\sqrt{86}e^3 \otimes e_9 + \frac{13}{6677}\sqrt{6834}e^2 \otimes e_7$	{123568, 289}
942:47	$0, 0, 0, 0, 0, \frac{26}{1155}\sqrt{654}e^{12}, \frac{13}{385}\sqrt{102}e^{13},$ $\frac{13}{385}\sqrt{314}e^{16} + \frac{13}{1155}\sqrt{1938}e^{24}, \frac{13}{385}\sqrt{70}e^{26} + \frac{26}{1155}\sqrt{438}e^{45}$	$(\frac{26}{385}, \frac{39}{385}, -\frac{13}{35}, \frac{52}{385}, \frac{52}{385}, \frac{13}{77}, -\frac{117}{385}, \frac{13}{55}, \frac{104}{385})$ $+ \frac{13}{1155}\sqrt{1938}e^5 \otimes e_7 + \frac{13}{1155}\sqrt{4242}e^1 \otimes e_3$	{12458, 1456}
942:47	$0, 0, 0, 0, 0, \frac{2}{2449}\sqrt{481195}e^{12}, \frac{2}{2449}\sqrt{851345}e^{13},$ $\frac{2}{2449}\sqrt{424663}e^{16} + \frac{4}{2449}\sqrt{198535}e^{24}, \frac{12}{2449}\sqrt{4711}e^{26} + \frac{26}{2449}\sqrt{2019}e^{45}$	$(\frac{381}{2449}, \frac{87}{2449}, -\frac{965}{2449}, \frac{762}{2449}, -\frac{207}{2449}, \frac{468}{2449}, -\frac{584}{2449}, \frac{849}{2449}, \frac{555}{2449})$ $+ \frac{2}{2449}\sqrt{1446277}e^4 \otimes e_7$	{1256789, 1579, 2378, 367}
942:47	$0, 0, 0, 0, 0, \frac{1}{1251}\sqrt{545794}e^{12}, \frac{4}{1251}\sqrt{58406}e^{13},$ $\frac{2}{1251}\sqrt{65455}e^{16} + \frac{1}{1251}\sqrt{1073462}e^{24}, \frac{4}{1251}\sqrt{17119}e^{26} + \frac{1}{1251}\sqrt{142994}e^{45}$	$(-\frac{1}{9}, \frac{58}{1251}, \frac{787}{1251}, -\frac{2}{9}, \frac{85}{417}, -\frac{9}{139}, \frac{72}{139}, -\frac{220}{1251}, -\frac{23}{1251})$ $+ \frac{1}{1251}\sqrt{2148938}e^3 \otimes e_8$	{1234569, 145789, 2347, 468}
942:47	$0, 0, 0, 0, 0, \frac{74}{6629}\sqrt{107}e^{12}, \frac{148}{6629}\sqrt{285}e^{13},$ $\frac{37}{6629}\sqrt{4234}e^{16} + \frac{111}{6629}\sqrt{638}e^{24}, \frac{148}{6629}\sqrt{213}e^{26} + \frac{37}{6629}\sqrt{2714}e^{45}$	$(\frac{555}{6629}, \frac{148}{6629}, -\frac{1776}{6629}, \frac{1110}{6629}, -\frac{37}{947}, \frac{703}{6629}, \frac{1221}{6629}, \frac{1258}{6629}, \frac{851}{6629})$ $+ \frac{111}{6629}\sqrt{890}e^2 \otimes e_7 + \frac{148}{6629}\sqrt{265}e^4 \otimes e_5$	{123568, 157}
942:47	$0, 0, 0, 0, 0, \frac{15}{1481}\sqrt{1013}e^{12}, \frac{15}{1481}\sqrt{797}e^{13},$ $\frac{15}{1481}\sqrt{1605}e^{16} + \frac{15}{1481}\sqrt{481}e^{24}, \frac{75}{1481}\sqrt{23}e^{26} + \frac{90}{1481}\sqrt{23}e^{45}$	$(-\frac{30}{1481}, \frac{135}{1481}, -\frac{255}{1481}, -\frac{60}{1481}, \frac{300}{1481}, \frac{105}{1481}, -\frac{285}{1481}, \frac{75}{1481}, \frac{240}{1481})$ $+ \frac{15}{1481}\sqrt{1201}e^5 \otimes e_8 + \frac{15}{1481}\sqrt{1534}e^1 \otimes e_3$	{1456, 234689}
942:48	$0, 0, 0, 0, 0, \frac{6}{253}\sqrt{767}e^{12}, \frac{1}{253}\sqrt{30090}e^{13} + \frac{2}{253}\sqrt{3009}e^{24},$ $\frac{1}{253}\sqrt{38586}e^{16}, \frac{2}{253}\sqrt{6195}e^{15} + \frac{59}{253}\sqrt{6}e^{26}$	$(\frac{81}{253}, -\frac{17}{253}, -\frac{96}{253}, \frac{2}{253}, -\frac{34}{253}, \frac{64}{253}, -\frac{15}{253}, \frac{145}{253}, \frac{47}{253})$ $+ \frac{1}{253}\sqrt{76818}e^1 \otimes e_3$	{12458, 156, 2345689, 359}
942:48	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{42}e^{13} + \frac{6}{25}\sqrt{3}e^{24}, \frac{2}{25}\sqrt{5}e^{16},$ $\frac{6}{25}e^{15} + \frac{2}{25}\sqrt{33}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{14}{25}e^3 \otimes e_9 + \frac{2}{25}\sqrt{42}e^1 \otimes e_5$	{234567, 3578}
942:48	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{7}e^{13} + \frac{2}{25}\sqrt{22}e^{24}, \frac{4}{25}\sqrt{11}e^{16},$ $\frac{6}{25}e^{15} + \frac{8}{25}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{14}{25}e^4 \otimes e_8 + \frac{2}{25}\sqrt{42}e^1 \otimes e_5$	{12378, 13467}
942:48	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{6179}e^{12}, \frac{1}{121}\sqrt{2553}e^{13} + \frac{1}{121}\sqrt{8769}e^{24}, \frac{3}{121}\sqrt{185}e^{16},$ $\frac{6}{121}\sqrt{259}e^{15} + \frac{1}{121}\sqrt{4773}e^{26}$	$(-\frac{13}{121}, \frac{29}{121}, -\frac{3}{121}, -\frac{45}{121}, \frac{58}{121}, \frac{16}{121}, -\frac{16}{121}, \frac{3}{121}, \frac{45}{121})$ $+ \frac{1}{121}\sqrt{15799}e^5 \otimes e_7$	{126789, 1479, 2378, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:48	$0, 0, 0, 0, 0, \frac{14}{261}\sqrt{34}e^{12}, \frac{7}{29}\sqrt{2}e^{13} + \frac{7}{261}\sqrt{102}e^{24}, \frac{14}{261}\sqrt{39}e^{16},$ $\frac{7}{261}\sqrt{154}e^{15} + \frac{7}{261}\sqrt{46}e^{26}$	$(\frac{7}{261}, -\frac{7}{87}, \frac{14}{87}, \frac{70}{261}, -\frac{14}{87}, -\frac{14}{261}, \frac{49}{261}, -\frac{7}{261}, -\frac{35}{261})$ $+ \frac{14}{261}\sqrt{69}e^1 \otimes e_5 + \frac{28}{261}\sqrt{13}e^3 \otimes e_8$	{2568, 357}
942:48	$0, 0, 0, 0, 0, \frac{3}{85}\sqrt{30}e^{12}, \frac{3}{85}\sqrt{138}e^{13} + \frac{36}{85}e^{24}, \frac{12}{85}\sqrt{6}e^{16},$ $\frac{24}{85}\sqrt{3}e^{15} + \frac{9}{85}\sqrt{6}e^{26}$	$(\frac{18}{85}, -\frac{12}{85}, -\frac{9}{85}, \frac{21}{85}, -\frac{24}{85}, \frac{6}{85}, \frac{9}{85}, \frac{24}{85}, -\frac{6}{85})$ $+ \frac{12}{85}\sqrt{15}e^1 \otimes e_3 + \frac{3}{85}\sqrt{222}e^4 \otimes e_9$	{12458, 359}
942:48	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{6}{121}\sqrt{259}e^{13} + \frac{1}{121}\sqrt{4773}e^{24}, \frac{1}{121}\sqrt{6179}e^{16},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{1}{121}\sqrt{8769}e^{26}$	$(-\frac{13}{121}, -\frac{3}{242}, \frac{58}{121}, \frac{93}{242}, -\frac{3}{121}, -\frac{29}{242}, \frac{45}{121}, -\frac{5}{22}, -\frac{16}{121})$ $+ \frac{1}{121}\sqrt{15799}e^3 \otimes e_9$	{123568, 1345, 2589, 4569}
942:48	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{9}{65}\sqrt{5}e^{13} + \frac{3}{65}\sqrt{14}e^{24}, \frac{12}{65}\sqrt{2}e^{16},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{3}{65}\sqrt{14}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{3}{65}, -\frac{12}{65}, \frac{3}{65})$ $+ \frac{3}{65}\sqrt{61}e^3 \otimes e_9 - \frac{3}{65}\sqrt{61}e^5 \otimes e_7$	{1234568, 135, 24589, 569}
942:48	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{9}{65}\sqrt{5}e^{13} + \frac{3}{65}\sqrt{14}e^{24}, \frac{12}{65}\sqrt{2}e^{16},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{3}{65}\sqrt{14}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{3}{65}, -\frac{12}{65}, \frac{3}{65})$ $+ \frac{3}{65}\sqrt{61}e^3 \otimes e_9 + \frac{3}{65}\sqrt{61}e^5 \otimes e_7$	{1234568, 135, 24589, 569}
942:48	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{5}{121}\sqrt{259}e^{13} + \frac{1}{121}\sqrt{11026}e^{24}, \frac{2}{121}\sqrt{2405}e^{16},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{1}{121}\sqrt{7030}e^{26}$	$(-\frac{13}{121}, -\frac{3}{242}, \frac{58}{121}, \frac{93}{242}, -\frac{3}{121}, -\frac{29}{242}, \frac{45}{121}, -\frac{5}{22}, -\frac{16}{121})$ $+ \frac{1}{121}\sqrt{15799}e^4 \otimes e_8$	{12469, 189, 234, 368}
942:48	$0, 0, 0, 0, 0, \frac{1}{253}\sqrt{38586}e^{12}, \frac{2}{253}\sqrt{6195}e^{13} + \frac{59}{253}\sqrt{6}e^{24}, \frac{6}{253}\sqrt{767}e^{16},$ $\frac{1}{253}\sqrt{30090}e^{15} + \frac{2}{253}\sqrt{3009}e^{26}$	$(\frac{81}{253}, -\frac{48}{253}, -\frac{34}{253}, \frac{95}{253}, -\frac{96}{253}, \frac{3}{23}, \frac{47}{253}, \frac{114}{253}, -\frac{15}{253})$ $+ \frac{1}{253}\sqrt{76818}e^1 \otimes e_5$	{2345678, 2568, 357, 45}
942:48	$0, 0, 0, 0, 0, \frac{2}{121}\sqrt{2405}e^{12}, \frac{1}{121}\sqrt{2553}e^{13} + \frac{1}{121}\sqrt{7030}e^{24}, \frac{3}{121}\sqrt{185}e^{16},$ $\frac{5}{121}\sqrt{259}e^{15} + \frac{1}{121}\sqrt{11026}e^{26}$	$(-\frac{13}{121}, \frac{29}{121}, -\frac{3}{121}, -\frac{45}{121}, \frac{58}{121}, \frac{16}{121}, -\frac{16}{121}, \frac{3}{121}, \frac{45}{121})$ $+ \frac{1}{121}\sqrt{15799}e^2 \otimes e_4$	{12359, 1345689, 256, 458}
942:48	$0, 0, 0, 0, 0, \frac{56}{85}e^{12}, \frac{7}{85}\sqrt{5}e^{13} + \frac{7}{85}\sqrt{38}e^{24}, \frac{7}{85}\sqrt{5}e^{16},$ $\frac{21}{85}\sqrt{3}e^{15} + \frac{56}{85}e^{26}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, -\frac{28}{85}, \frac{42}{85}, \frac{7}{85}, -\frac{7}{85}, -\frac{7}{85}, \frac{28}{85})$ $+ \frac{7}{85}\sqrt{113}e^2 \otimes e_4 + \frac{7}{85}\sqrt{38}e^5 \otimes e_8$	{134569, 45}
942:48	$0, 0, 0, 0, 0, \frac{6}{247}\sqrt{290}e^{12}, \frac{145}{494}\sqrt{6}e^{13} + \frac{1}{494}\sqrt{123105}e^{24},$ $\frac{1}{247}\sqrt{42195}e^{16} + \frac{1}{247}\sqrt{47415}e^{15} + \frac{1}{494}\sqrt{140070}e^{26}$	$(-\frac{297}{988}, \frac{69}{247}, \frac{431}{988}, -\frac{71}{494}, \frac{138}{247}, -\frac{21}{988}, \frac{67}{494}, -\frac{159}{494}, \frac{255}{988})$ $+ \frac{11}{494}\sqrt{3045}e^5 \otimes e_8$	{134789, 189, 368, 4678}
942:48	$0, 0, 0, 0, 0, \frac{1}{1017}\sqrt{68386}e^{12}, \frac{2}{1017}\sqrt{175377}e^{13} + \frac{5}{1017}\sqrt{6618}e^{24},$ $\frac{1}{1017}\sqrt{602238}e^{16}, \frac{2}{1017}\sqrt{91549}e^{15} + \frac{2}{1017}\sqrt{25369}e^{26}$	$(-\frac{286}{1017}, \frac{56}{339}, \frac{233}{339}, \frac{245}{1017}, \frac{112}{339}, -\frac{118}{1017}, \frac{413}{1017}, -\frac{404}{1017}, \frac{50}{1017})$ $+ \frac{11}{1017}\sqrt{15442}e^3 \otimes e_8$	{1245789, 134569, 2568, 357}
942:48	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{330}e^{12}, \frac{2}{65}\sqrt{35}e^{13} + \frac{1}{65}\sqrt{230}e^{24}, \frac{2}{65}\sqrt{15}e^{16},$ $\frac{1}{13}\sqrt{10}e^{15} + \frac{2}{65}\sqrt{65}e^{26}$	$(\frac{1}{13}, 0, -\frac{2}{13}, -\frac{1}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{1}{13})$ $+ \frac{1}{65}\sqrt{290}e^1 \otimes e_5 + \frac{8}{65}\sqrt{5}e^2 \otimes e_4$	{2568, 45}
942:48	$0, 0, 0, 0, 0, \frac{22}{1605}\sqrt{87}e^{12}, \frac{11}{1605}\sqrt{1146}e^{13} + \frac{44}{1605}\sqrt{42}e^{24},$ $\frac{11}{1605}\sqrt{1390}e^{16}, \frac{88}{1605}\sqrt{19}e^{15} + \frac{11}{1605}\sqrt{1030}e^{26}$	$(-\frac{11}{1605}, \frac{33}{535}, -\frac{44}{535}, -\frac{242}{1605}, \frac{66}{535}, \frac{88}{1605}, -\frac{143}{1605}, \frac{77}{1605}, \frac{187}{1605})$ $+ \frac{11}{1605}\sqrt{1598}e^1 \otimes e_3 + \frac{44}{1605}\sqrt{89}e^5 \otimes e_8$	{156, 359}
942:48	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{11}e^{12}, \frac{6}{25}e^{13} + \frac{8}{25}e^{24}, \frac{2}{25}\sqrt{15}e^{16},$ $\frac{2}{25}\sqrt{7}e^{15} + \frac{2}{25}\sqrt{22}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $- \frac{14}{25}e^2 \otimes e_4 + \frac{2}{25}\sqrt{42}e^1 \otimes e_3$	{12589, 14569, 23568, 345}
942:48	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{11}e^{12}, \frac{6}{25}e^{13} + \frac{8}{25}e^{24}, \frac{2}{25}\sqrt{15}e^{16},$ $\frac{2}{25}\sqrt{7}e^{15} + \frac{2}{25}\sqrt{22}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{14}{25}e^2 \otimes e_4 + \frac{2}{25}\sqrt{42}e^1 \otimes e_3$	{12589, 14569, 23568, 345}
942:48	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{1}{25}\sqrt{105}e^{13} + \frac{1}{5}\sqrt{6}e^{24}, \frac{1}{25}\sqrt{15}e^{16},$ $\frac{1}{25}\sqrt{155}e^{15} + \frac{1}{25}\sqrt{210}e^{26}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{295}e^2 \otimes e_4 + \frac{4}{25}\sqrt{10}e^3 \otimes e_8$	{134569, 2568}
942:48	$0, 0, 0, 0, 0, \frac{11}{41}\sqrt{2}e^{12}, \frac{11}{205}\sqrt{7}e^{13} + \frac{33}{205}\sqrt{11}e^{24}, \frac{11}{205}\sqrt{21}e^{16},$ $\frac{22}{205}\sqrt{23}e^{15} + \frac{11}{205}\sqrt{21}e^{26}$	$(-\frac{11}{205}, -\frac{11}{205}, \frac{88}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{22}{205}, \frac{77}{205}, -\frac{33}{205}, -\frac{33}{205})$ $+ \frac{11}{205}\sqrt{227}e^4 \otimes e_9 + \frac{33}{205}\sqrt{15}e^3 \otimes e_8$	{123456, 14578, 23579, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:48	$0, 0, 0, 0, 0, \frac{11}{41}\sqrt{2}e^{12}, \frac{11}{205}\sqrt{7}e^{13} + \frac{33}{205}\sqrt{11}e^{24}, \frac{11}{205}\sqrt{21}e^{16},$ $\frac{22}{205}\sqrt{23}e^{15} + \frac{11}{205}\sqrt{21}e^{26}$	$(-\frac{11}{205}, -\frac{11}{205}, \frac{88}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{22}{205}, \frac{77}{205}, -\frac{33}{205}, -\frac{33}{205})$ $-\frac{11}{205}\sqrt{227}e^4 \otimes e_9 + \frac{33}{205}\sqrt{15}e^3 \otimes e_8$	{123456, 14578, 23579, 5689}
942:48	$0, 0, 0, 0, 0, \frac{148}{5245}\sqrt{115}e^{12}, \frac{37}{5245}\sqrt{2602}e^{13} + \frac{37}{5245}\sqrt{3946}e^{24},$ $\frac{74}{5245}\sqrt{381}e^{16}, \frac{37}{5245}\sqrt{4978}e^{15} + \frac{37}{5245}\sqrt{1526}e^{26}$	$(-\frac{629}{5245}, \frac{111}{5245}, \frac{1702}{5245}, \frac{962}{5245}, \frac{222}{5245}, -\frac{518}{5245}, \frac{1073}{5245}, -\frac{1147}{5245}, -\frac{407}{5245})$ $+\frac{74}{5245}\sqrt{1155}e^5 \otimes e_8 + \frac{74}{5245}\sqrt{1267}e^4 \otimes e_9$	{189, 4678}
942:48	$0, 0, 0, 0, 0, \frac{1}{185}\sqrt{235}e^{12}, \frac{1}{185}\sqrt{7}e^{13} + \frac{19}{185}e^{24}, \frac{9}{185}e^{16},$ $\frac{2}{185}\sqrt{97}e^{15} + \frac{1}{185}\sqrt{101}e^{26}$	$(-\frac{7}{185}, \frac{3}{185}, \frac{11}{185}, \frac{1}{185}, \frac{6}{185}, -\frac{4}{185}, \frac{4}{185}, -\frac{11}{185}, -\frac{1}{185})$ $+\frac{1}{37}\sqrt{15}e^5 \otimes e_7 + \frac{2}{185}\sqrt{82}e^4 \otimes e_9$	{1236789, 467}
942:48	$0, 0, 0, 0, 0, \frac{58}{1405}\sqrt{110}e^{12}, \frac{319}{1405}\sqrt{2}e^{13} + \frac{29}{1405}\sqrt{154}e^{24},$ $\frac{174}{1405}\sqrt{11}e^{16}, \frac{29}{1405}\sqrt{22}e^{15} + \frac{29}{1405}\sqrt{286}e^{26}$	$(\frac{319}{1405}, -\frac{261}{1405}, \frac{58}{1405}, \frac{638}{1405}, -\frac{522}{1405}, \frac{58}{1405}, \frac{377}{1405}, \frac{377}{1405}, -\frac{203}{1405})$ $+\frac{116}{1405}\sqrt{67}e^4 \otimes e_9 + \frac{58}{1405}\sqrt{345}e^1 \otimes e_5$	{12789, 1369}
942:48	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{115}e^{12}, \frac{1}{25}\sqrt{105}e^{13} + \frac{1}{25}\sqrt{145}e^{24}, \frac{1}{25}\sqrt{15}e^{16},$ $\frac{2}{25}\sqrt{35}e^{15} + \frac{1}{25}\sqrt{85}e^{26}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{2}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{1}{25}\sqrt{295}e^5 \otimes e_7 + \frac{4}{25}\sqrt{10}e^3 \otimes e_8$	{14789, 237}
942:48	$0, 0, 0, 0, 0, \frac{51}{605}\sqrt{14}e^{12}, \frac{51}{605}\sqrt{30}e^{13} + \frac{34}{605}\sqrt{21}e^{24}, \frac{119}{605}\sqrt{2}e^{16},$ $\frac{34}{605}\sqrt{78}e^{15} + \frac{34}{605}\sqrt{57}e^{26}$	$(-\frac{119}{605}, \frac{51}{605}, \frac{272}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{68}{605}, \frac{153}{605}, -\frac{17}{605}, -\frac{17}{605})$ $+\frac{102}{605}\sqrt{11}e^5 \otimes e_8 + \frac{17}{605}\sqrt{694}e^3 \otimes e_9$	{1345, 4569}
942:48	$0, 0, 0, 0, 0, \frac{1}{335}\sqrt{33410}e^{12}, \frac{1}{335}\sqrt{27242}e^{13} + \frac{12}{335}\sqrt{514}e^{24},$ $\frac{4}{335}\sqrt{771}e^{16}, \frac{4}{335}\sqrt{4883}e^{15} + \frac{1}{335}\sqrt{10794}e^{26}$	$(\frac{38}{335}, -\frac{52}{335}, \frac{101}{335}, \frac{191}{335}, -\frac{104}{335}, -\frac{14}{335}, \frac{139}{335}, \frac{24}{335}, -\frac{66}{335})$ $+\frac{1}{335}\sqrt{147518}e^4 \otimes e_9$	{124568, 13457, 25789, 3569}
942:49	$0, 0, 0, 0, 0, \frac{1}{266}\sqrt{35169}e^{12}, \frac{1}{266}\sqrt{22829}e^{34},$ $\frac{3}{532}\sqrt{11723}e^{16} + \frac{3}{532}\sqrt{40722}e^{23}, \frac{1}{133}\sqrt{9255}e^{15} + \frac{3}{532}\sqrt{11723}e^{26}$	$(\frac{309}{1064}, -\frac{45}{1064}, \frac{309}{532}, -\frac{11}{19}, -\frac{45}{532}, \frac{33}{133}, \frac{532}{1064}, \frac{573}{1064}, \frac{219}{1064})$ $+\frac{1}{532}\sqrt{563938}e^3 \otimes e_4$	{124689, 149, 248, 46}
942:49	$0, 0, 0, 0, 0, \frac{14}{1217}\sqrt{2030}e^{12}, \frac{7}{1217}\sqrt{8162}e^{34},$ $\frac{7}{1217}\sqrt{7910}e^{16} + \frac{98}{1217}\sqrt{38}e^{23}, \frac{21}{1217}\sqrt{14}e^{15} + \frac{21}{1217}\sqrt{70}e^{26}$	$(\frac{63}{1217}, \frac{84}{1217}, \frac{126}{1217}, -\frac{406}{1217}, \frac{168}{1217}, \frac{147}{1217}, -\frac{280}{1217}, \frac{210}{1217}, \frac{231}{1217})$ $+\frac{28}{1217}\sqrt{910}e^1 \otimes e_7$	{123489, 13469, 23678, 37}
942:49	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{101}e^{12}, \frac{2}{293}\sqrt{2}e^{34}, \frac{2}{879}\sqrt{366}e^{16} + \frac{2}{879}\sqrt{1434}e^{23},$ $\frac{4}{879}\sqrt{357}e^{15} + \frac{4}{879}\sqrt{93}e^{26}$	$(-\frac{2}{293}, -\frac{2}{293}, -\frac{4}{293}, \frac{17}{293}, -\frac{4}{293}, -\frac{4}{293}, \frac{13}{293}, -\frac{6}{293}, -\frac{6}{293})$ $+\frac{2}{879}\sqrt{1245}e^3 \otimes e_9 + \frac{2}{879}\sqrt{1257}e^5 \otimes e_8$	{124689, 126789}
942:49	$0, 0, 0, 0, 0, \frac{42}{2735}\sqrt{286}e^{12}, \frac{21}{2735}\sqrt{2066}e^{34},$ $\frac{273}{2735}\sqrt{6}e^{16} + \frac{42}{2735}\sqrt{182}e^{23}, \frac{21}{2735}\sqrt{974}e^{15} + \frac{21}{2735}\sqrt{390}e^{26}$	$(\frac{273}{2735}, -\frac{84}{2735}, \frac{546}{2735}, -\frac{714}{2735}, -\frac{168}{2735}, \frac{189}{2735}, -\frac{168}{2735}, \frac{462}{2735}, \frac{21}{2735})$ $+\frac{336}{2735}\sqrt{7}e^3 \otimes e_9 + \frac{84}{2735}\sqrt{190}e^1 \otimes e_7$	{23678, 37}
942:49	$0, 0, 0, 0, 0, \frac{11}{1047}\sqrt{1290}e^{12}, \frac{22}{1047}\sqrt{102}e^{34},$ $\frac{11}{1047}\sqrt{30}e^{16} + \frac{11}{1047}\sqrt{1758}e^{23}, \frac{11}{1047}\sqrt{2694}e^{15} + \frac{44}{1047}\sqrt{30}e^{26}$	$(-\frac{44}{349}, \frac{33}{349}, -\frac{88}{349}, \frac{143}{349}, \frac{66}{349}, -\frac{11}{349}, \frac{55}{349}, -\frac{55}{349}, \frac{22}{349})$ $+\frac{110}{1047}\sqrt{33}e^5 \otimes e_8 + \frac{220}{1047}\sqrt{6}e^4 \otimes e_9$	{12689, 2478}
942:49	$0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{83766}e^{12}, \frac{1}{1145}\sqrt{280434}e^{34},$ $\frac{1}{1145}\sqrt{401834}e^{16} + \frac{2}{1145}\sqrt{137182}e^{23}, \frac{23}{1145}\sqrt{1214}e^{15} + \frac{1}{1145}\sqrt{200310}e^{26}$	$(\frac{231}{1145}, -\frac{188}{1145}, \frac{462}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{43}{1145}, \frac{384}{1145}, \frac{274}{1145}, -\frac{29}{229})$ $+\frac{8}{1145}\sqrt{18817}e^3 \otimes e_9$	{245789, 2589, 45679, 569}
942:49	$0, 0, 0, 0, 0, \frac{19}{5261}\sqrt{5758}e^{12}, \frac{76}{5261}\sqrt{183}e^{34},$ $\frac{76}{5261}\sqrt{197}e^{16} + \frac{171}{5261}\sqrt{38}e^{23}, \frac{19}{5261}\sqrt{3674}e^{15} + \frac{19}{5261}\sqrt{3102}e^{26}$	$(\frac{285}{5261}, -\frac{38}{5261}, \frac{570}{5261}, -\frac{969}{5261}, -\frac{76}{5261}, \frac{247}{5261}, -\frac{399}{5261}, \frac{532}{5261}, \frac{209}{5261})$ $+\frac{114}{5261}\sqrt{131}e^2 \otimes e_7 + \frac{76}{5261}\sqrt{301}e^1 \otimes e_5$	{234568, 357}
942:49	$0, 0, 0, 0, 0, \frac{5}{211}\sqrt{714}e^{12}, \frac{6}{211}\sqrt{238}e^{34}, \frac{1}{211}\sqrt{3570}e^{16} + \frac{1}{211}\sqrt{30702}e^{23},$ $\frac{3}{211}\sqrt{3094}e^{15} + \frac{4}{211}\sqrt{1190}e^{26}$	$(-\frac{36}{211}, \frac{47}{211}, -\frac{72}{211}, \frac{57}{211}, \frac{94}{211}, \frac{11}{211}, -\frac{15}{211}, -\frac{25}{211}, \frac{58}{211})$ $+\frac{2}{211}\sqrt{11305}e^5 \otimes e_8$	{134789, 1389, 34678, 368}
942:49	$0, 0, 0, 0, 0, \frac{21}{6989}\sqrt{3090}e^{12}, \frac{42}{6989}\sqrt{862}e^{34},$ $\frac{42}{6989}\sqrt{815}e^{16} + \frac{21}{6989}\sqrt{3634}e^{23}, \frac{63}{6989}\sqrt{734}e^{15} + \frac{21}{6989}\sqrt{510}e^{26}$	$(\frac{357}{6989}, -\frac{42}{6989}, \frac{714}{6989}, -\frac{1239}{6989}, -\frac{84}{6989}, \frac{315}{6989}, -\frac{525}{6989}, \frac{672}{6989}, \frac{273}{6989})$ $+\frac{42}{6989}\sqrt{1367}e^5 \otimes e_7 + \frac{42}{6989}\sqrt{1885}e^3 \otimes e_9$	{2589, 569}
942:49	$0, 0, 0, 0, 0, \frac{41}{4109}\sqrt{2082}e^{12}, \frac{82}{4109}\sqrt{439}e^{34},$ $\frac{246}{4109}\sqrt{10}e^{16} + \frac{123}{4109}\sqrt{94}e^{23}, \frac{41}{4109}\sqrt{978}e^{15} + \frac{41}{4109}\sqrt{2202}e^{26}$	$(\frac{123}{4109}, \frac{492}{4109}, \frac{246}{4109}, -\frac{205}{587}, \frac{984}{4109}, \frac{615}{4109}, -\frac{1189}{4109}, \frac{738}{4109}, \frac{1107}{4109})$ $+\frac{82}{4109}\sqrt{1281}e^2 \otimes e_7 + \frac{82}{4109}\sqrt{526}e^3 \otimes e_4$	{1356789, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:49	$0, 0, 0, 0, 0, \frac{22}{3181}\sqrt{797e^{12}}, \frac{22}{3181}\sqrt{1201e^{34}},$ $\frac{44}{3181}\sqrt{37e^{16}} + \frac{22}{3181}\sqrt{422e^{23}}, \frac{22}{3181}\sqrt{101e^{15}} + \frac{44}{3181}\sqrt{321e^{26}}$	$(-\frac{231}{3181}, \frac{209}{3181}, -\frac{462}{3181}, \frac{429}{3181}, \frac{418}{3181}, -\frac{22}{3181}, -\frac{33}{3181}, -\frac{253}{3181}, \frac{187}{3181})$ $+\frac{22}{3181}\sqrt{1313e^4} \otimes e_9 + \frac{22}{3181}\sqrt{1551e^2} \otimes e_7$	{1259, 4578}
942:49	$0, 0, 0, 0, 0, \frac{11}{1191}\sqrt{194e^{12}}, \frac{2}{1191}\sqrt{177122e^{34}},$ $\frac{2}{397}\sqrt{22407e^{16}} + \frac{1}{1191}\sqrt{416130e^{23}}, \frac{2}{1191}\sqrt{49082e^{15}} + \frac{1}{1191}\sqrt{245410e^{26}}$	$(-\frac{161}{1191}, \frac{38}{397}, -\frac{322}{1191}, \frac{859}{1191}, \frac{76}{397}, -\frac{47}{1191}, \frac{179}{397}, -\frac{208}{1191}, \frac{67}{1191})$ $+\frac{2}{1191}\sqrt{526031e^4} \otimes e_8$	{128, 1467, 2689, 479}
942:49	$0, 0, 0, 0, 0, \frac{27}{6461}\sqrt{4666e^{12}}, \frac{54}{6461}\sqrt{674e^{34}},$ $\frac{27}{6461}\sqrt{654e^{16}} + \frac{27}{6461}\sqrt{8462e^{23}}, \frac{27}{6461}\sqrt{5910e^{15}} + \frac{108}{6461}\sqrt{278e^{26}}$	$(-\frac{108}{6461}, \frac{513}{6461}, -\frac{216}{6461}, -\frac{135}{923}, \frac{1026}{6461}, \frac{405}{6461}, -\frac{1161}{6461}, \frac{297}{6461}, \frac{918}{6461})$ $+\frac{108}{6461}\sqrt{310e^3} \otimes e_4 + \frac{54}{6461}\sqrt{1897e^5} \otimes e_8$	{124689, 248}
942:49	$0, 0, 0, 0, 0, \frac{46}{1211}\sqrt{51e^{12}}, \frac{23}{1211}\sqrt{6e^{34}}, \frac{92}{1211}\sqrt{6e^{16}} + \frac{46}{1211}\sqrt{138e^{23}},$ $\frac{69}{1211}\sqrt{30e^{15}} + \frac{46}{1211}\sqrt{43e^{26}}$	$(-\frac{138}{1211}, \frac{253}{1211}, -\frac{276}{1211}, 0, \frac{506}{1211}, \frac{115}{1211}, -\frac{276}{1211}, -\frac{23}{1211}, \frac{368}{1211})$ $+\frac{46}{1211}\sqrt{247e^5} \otimes e_8 + \frac{46}{1211}\sqrt{285e^2} \otimes e_7$	{1289, 268}
942:49	$0, 0, 0, 0, 0, \frac{5}{763}\sqrt{1806e^{12}}, \frac{10}{763}\sqrt{602e^{34}}, \frac{10}{763}\sqrt{161e^{16}} + \frac{5}{763}\sqrt{3458e^{23}},$ $\frac{5}{763}\sqrt{2982e^{15}} + \frac{25}{763}\sqrt{14e^{26}}$	$(\frac{5}{109}, -\frac{10}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{20}{109}, -\frac{5}{109}, \frac{35}{109}, 0, -\frac{15}{109})$ $+\frac{10}{763}\sqrt{959e^4} \otimes e_8 + \frac{40}{763}\sqrt{91e^3} \otimes e_9$	{2589, 45679}
942:49	$0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{217306e^{12}}, \frac{1}{1145}\sqrt{280434e^{34}},$ $\frac{1}{1145}\sqrt{802454e^{16}} + \frac{6}{1145}\sqrt{18210e^{23}}, \frac{1}{1145}\sqrt{562082e^{15}} + \frac{1}{1145}\sqrt{200310e^{26}}$	$(\frac{231}{1145}, -\frac{188}{1145}, \frac{462}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{43}{1145}, \frac{384}{1145}, \frac{274}{1145}, -\frac{29}{229})$ $+\frac{8}{1145}\sqrt{18817e^4} \otimes e_5$	{234568, 235678, 345, 357}
942:49	$0, 0, 0, 0, 0, \frac{5}{1223}\sqrt{27686e^{12}}, \frac{2}{1223}\sqrt{140970e^{34}},$ $\frac{4}{1223}\sqrt{1905e^{16}} + \frac{1}{1223}\sqrt{138430e^{23}}, \frac{1}{1223}\sqrt{384810e^{15}} + \frac{1}{1223}\sqrt{681990e^{26}}$	$(-\frac{69}{1223}, \frac{250}{1223}, -\frac{138}{1223}, \frac{247}{1223}, \frac{500}{1223}, \frac{181}{1223}, -\frac{385}{1223}, \frac{112}{1223}, \frac{431}{1223})$ $+\frac{6}{1223}\sqrt{36195e^2} \otimes e_7$	{1234589, 135679, 234568, 357}
942:49	$0, 0, 0, 0, 0, \frac{165}{7541}\sqrt{34e^{12}}, \frac{66}{7541}\sqrt{1367e^{34}},$ $\frac{33}{7541}\sqrt{1570e^{16}} + \frac{33}{7541}\sqrt{1322e^{23}}, \frac{33}{7541}\sqrt{5114e^{15}} + \frac{396}{7541}\sqrt{15e^{26}}$	$(-\frac{726}{7541}, \frac{627}{7541}, -\frac{1452}{7541}, \frac{1617}{7541}, \frac{1254}{7541}, -\frac{99}{7541}, \frac{165}{7541}, -\frac{825}{7541}, \frac{528}{7541})$ $+\frac{66}{7541}\sqrt{1595e^5} \otimes e_7 + \frac{66}{7541}\sqrt{1865e^4} \otimes e_9$	{1234568, 1345}
942:49	$0, 0, 0, 0, 0, \frac{176}{335}e^{12}, \frac{11}{335}\sqrt{186e^{34}}, \frac{11}{335}\sqrt{206e^{16}} + \frac{44}{335}\sqrt{15e^{23}},$ $\frac{44}{335}\sqrt{2e^{15}} + \frac{11}{67}\sqrt{6e^{26}}$	$(\frac{33}{335}, -\frac{44}{335}, \frac{66}{335}, \frac{66}{335}, -\frac{88}{335}, -\frac{11}{335}, \frac{132}{335}, \frac{22}{335}, -\frac{11}{67})$ $+\frac{44}{335}\sqrt{15e^4} \otimes e_9 + \frac{44}{335}\sqrt{22e^2} \otimes e_5$	{234568, 345}
942:49	$0, 0, 0, 0, 0, \frac{18}{701}\sqrt{186e^{12}}, \frac{27}{701}\sqrt{102e^{34}}, \frac{18}{701}\sqrt{93e^{16}} + \frac{45}{701}\sqrt{2e^{23}},$ $\frac{18}{701}\sqrt{118e^{15}} + \frac{18}{701}\sqrt{155e^{26}}$	$(-\frac{81}{701}, \frac{99}{701}, -\frac{162}{701}, \frac{99}{701}, \frac{198}{701}, \frac{18}{701}, -\frac{63}{701}, -\frac{63}{701}, \frac{117}{701})$ $+\frac{9}{701}\sqrt{1490e^2} \otimes e_7 - \frac{9}{701}\sqrt{994e^4} \otimes e_8$	{12589, 145679, 2568, 457}
942:49	$0, 0, 0, 0, 0, \frac{18}{701}\sqrt{186e^{12}}, \frac{27}{701}\sqrt{102e^{34}}, \frac{18}{701}\sqrt{93e^{16}} + \frac{45}{701}\sqrt{2e^{23}},$ $\frac{18}{701}\sqrt{118e^{15}} + \frac{18}{701}\sqrt{155e^{26}}$	$(-\frac{81}{701}, \frac{99}{701}, -\frac{162}{701}, \frac{99}{701}, \frac{198}{701}, \frac{18}{701}, -\frac{63}{701}, -\frac{63}{701}, \frac{117}{701})$ $+\frac{9}{701}\sqrt{1490e^2} \otimes e_7 + \frac{9}{701}\sqrt{994e^4} \otimes e_8$	{12589, 145679, 2568, 457}
942:49	$0, 0, 0, 0, 0, \frac{49}{6229}\sqrt{830e^{12}}, \frac{98}{6229}\sqrt{930e^{34}},$ $\frac{490}{6229}\sqrt{15e^{16}} + \frac{49}{6229}\sqrt{1298e^{23}}, \frac{49}{6229}\sqrt{2486e^{15}} + \frac{49}{6229}\sqrt{1330e^{26}}$	$(-\frac{931}{6229}, \frac{1078}{6229}, -\frac{1862}{6229}, \frac{1617}{6229}, \frac{2156}{6229}, \frac{147}{6229}, -\frac{245}{6229}, -\frac{784}{6229}, \frac{1225}{6229})$ $+\frac{392}{6229}\sqrt{86e^5} \otimes e_7 + \frac{98}{6229}\sqrt{1415e^4} \otimes e_8$	{13789, 3678}
942:49	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{545e^{12}}, \frac{1}{58}\sqrt{2071e^{34}}, \frac{1}{116}\sqrt{1635e^{16}} + \frac{1}{58}\sqrt{109e^{23}},$ $\frac{1}{116}\sqrt{10246e^{15}} + \frac{1}{116}\sqrt{1635e^{26}}$	$(-\frac{21}{232}, \frac{69}{232}, -\frac{21}{116}, -\frac{19}{116}, \frac{69}{116}, \frac{6}{29}, -\frac{10}{29}, \frac{27}{232}, \frac{117}{232})$ $+\frac{1}{116}\sqrt{21146e^5} \otimes e_7$	{1246789, 1479, 2478, 467}
942:49	$0, 0, 0, 0, 0, \frac{5}{109}\sqrt{82e^{12}}, \frac{10}{763}\sqrt{602e^{34}}, \frac{10}{763}\sqrt{1295e^{16}} + \frac{65}{763}\sqrt{14e^{23}},$ $\frac{5}{109}\sqrt{58e^{15}} + \frac{25}{763}\sqrt{14e^{26}}$	$(\frac{5}{109}, -\frac{10}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{20}{109}, -\frac{5}{109}, \frac{35}{109}, 0, -\frac{15}{109})$ $+\frac{10}{763}\sqrt{959e^4} \otimes e_8 + \frac{40}{763}\sqrt{91e^1} \otimes e_5$	{235678, 345}
942:49	$0, 0, 0, 0, 0, \frac{12}{149}\sqrt{30e^{12}}, \frac{9}{149}\sqrt{30e^{34}}, \frac{18}{149}\sqrt{10e^{16}} + \frac{3}{149}\sqrt{762e^{23}},$ $\frac{6}{149}\sqrt{231e^{15}} + \frac{18}{149}\sqrt{10e^{26}}$	$(\frac{9}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{63}{149}, \frac{36}{149}, \frac{27}{149}, -\frac{45}{149}, \frac{36}{149}, \frac{45}{149})$ $+\frac{3}{149}\sqrt{1110e^3} \otimes e_4 + \frac{3}{149}\sqrt{1326e^5} \otimes e_7$	{1246789, 1479, 2478, 467}
942:49	$0, 0, 0, 0, 0, \frac{12}{149}\sqrt{30e^{12}}, \frac{9}{149}\sqrt{30e^{34}}, \frac{18}{149}\sqrt{10e^{16}} + \frac{3}{149}\sqrt{762e^{23}},$ $\frac{6}{149}\sqrt{231e^{15}} + \frac{18}{149}\sqrt{10e^{26}}$	$(\frac{9}{149}, \frac{18}{149}, \frac{18}{149}, -\frac{63}{149}, \frac{36}{149}, \frac{27}{149}, -\frac{45}{149}, \frac{36}{149}, \frac{45}{149})$ $+\frac{3}{149}\sqrt{1110e^3} \otimes e_4 - \frac{3}{149}\sqrt{1326e^5} \otimes e_7$	{1246789, 1479, 2478, 467}
942:49	$0, 0, 0, 0, 0, \frac{19}{5261}\sqrt{942e^{12}}, \frac{76}{5261}\sqrt{183e^{34}},$ $\frac{152}{5261}\sqrt{26e^{16}} + \frac{19}{5261}\sqrt{1738e^{23}}, \frac{19}{5261}\sqrt{1142e^{15}} + \frac{19}{5261}\sqrt{3102e^{26}}$	$(\frac{285}{5261}, -\frac{38}{5261}, \frac{570}{5261}, -\frac{969}{5261}, -\frac{76}{5261}, \frac{247}{5261}, -\frac{399}{5261}, \frac{532}{5261}, \frac{209}{5261})$ $+\frac{114}{5261}\sqrt{131e^2} \otimes e_7 + \frac{76}{5261}\sqrt{301e^3} \otimes e_9$	{2346, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:49	$0, 0, 0, 0, 0, \frac{7}{197} \sqrt{254}e^{12}, \frac{14}{197} \sqrt{62}e^{34}, \frac{77}{197} \sqrt{2}e^{16} + \frac{7}{197} \sqrt{266}e^{23},$ $\frac{21}{197} \sqrt{2}e^{15} + \frac{42}{197} e^{26}$	$(0, \frac{21}{197}, 0, -\frac{49}{197}, \frac{42}{197}, \frac{21}{197}, -\frac{49}{197}, \frac{21}{197}, \frac{42}{197})$ $+ \frac{14}{197} \sqrt{103}e^1 \otimes e_7 + \frac{14}{197} \sqrt{21}e^3 \otimes e_4$	{1234589, 134569}
942:49	$0, 0, 0, 0, 0, \frac{44}{1193} \sqrt{35}e^{12}, \frac{11}{1193} \sqrt{6538}e^{34},$ $\frac{11}{1193} \sqrt{1330}e^{16} + \frac{44}{1193} \sqrt{182}e^{23}, \frac{11}{1193} \sqrt{3934}e^{15} + \frac{99}{1193} \sqrt{70}e^{26}$	$(-\frac{33}{1193}, -\frac{44}{1193}, -\frac{66}{1193}, \frac{726}{1193}, -\frac{88}{1193}, -\frac{77}{1193}, \frac{660}{1193}, -\frac{110}{1193}, -\frac{121}{1193})$ $+ \frac{220}{1193} \sqrt{35}e^4 \otimes e_9$	{129, 1689, 2467, 478}
942:49	$0, 0, 0, 0, 0, \frac{33}{2069} \sqrt{2334}e^{12}, \frac{66}{2069} \sqrt{181}e^{34},$ $\frac{66}{2069} \sqrt{542}e^{16} + \frac{33}{2069} \sqrt{1642}e^{23}, \frac{33}{2069} \sqrt{1490}e^{15} + \frac{33}{2069} \sqrt{498}e^{26}$	$(\frac{429}{2069}, -\frac{330}{2069}, \frac{858}{2069}, -\frac{231}{2069}, -\frac{660}{2069}, \frac{99}{2069}, \frac{627}{2069}, \frac{528}{2069}, -\frac{231}{2069})$ $+ \frac{66}{2069} \sqrt{67}e^3 \otimes e_4 + \frac{66}{2069} \sqrt{835}e^1 \otimes e_5$	{235678, 357}
942:49	$0, 0, 0, 0, 0, \frac{14}{3029} \sqrt{929}e^{12}, \frac{14}{3029} \sqrt{1243}e^{34},$ $\frac{14}{3029} \sqrt{1277}e^{16} + \frac{140}{3029} \sqrt{7}e^{23}, \frac{14}{3029} \sqrt{17}e^{15} + \frac{14}{3029} \sqrt{85}e^{26}$	$(-\frac{119}{3029}, \frac{161}{3029}, -\frac{238}{3029}, \frac{21}{3029}, \frac{322}{3029}, \frac{42}{3029}, -\frac{217}{3029}, -\frac{77}{3029}, \frac{203}{3029})$ $+ \frac{14}{3029} \sqrt{1765}e^1 \otimes e_7 + \frac{14}{3029} \sqrt{959}e^4 \otimes e_8$	{1346, 236789}
942:49	$0, 0, 0, 0, 0, \frac{3}{347} \sqrt{910}e^{12}, \frac{12}{347} \sqrt{77}e^{34}, \frac{3}{347} \sqrt{1610}e^{16} + \frac{9}{347} \sqrt{42}e^{23},$ $\frac{3}{347} \sqrt{966}e^{15} + \frac{12}{347} \sqrt{35}e^{26}$	$(-\frac{12}{347}, \frac{39}{347}, -\frac{24}{347}, -\frac{51}{347}, \frac{78}{347}, \frac{27}{347}, -\frac{75}{347}, \frac{15}{347}, \frac{66}{347})$ $+ \frac{60}{347} \sqrt{7}e^1 \otimes e_7 + \frac{6}{347} \sqrt{385}e^5 \otimes e_8$	{13456, 3579}
942:50	$0, 0, 0, 0, 0, \frac{16}{201} \sqrt{42}e^{12}, \frac{16}{201} \sqrt{67}e^{34}, \frac{8}{67} \sqrt{14}e^{16} - \frac{8}{67} \sqrt{34}e^{25},$ $\frac{8}{67} \sqrt{34}e^{15} + \frac{8}{67} \sqrt{14}e^{26}$	$(\frac{8}{67}, \frac{8}{67}, -\frac{40}{201}, -\frac{40}{201}, \frac{16}{67}, \frac{16}{67}, -\frac{80}{201}, \frac{24}{67}, \frac{24}{67})$ $+ \frac{16}{201} \sqrt{174}e^5 \otimes e_7$	{1236789, 1379, 367, 1236789, 1379, 367}
942:50	$0, 0, 0, 0, 0, \frac{16}{201} \sqrt{42}e^{12}, \frac{16}{201} \sqrt{67}e^{34}, \frac{8}{67} \sqrt{14}e^{16} + \frac{8}{67} \sqrt{34}e^{25},$ $\frac{8}{67} \sqrt{34}e^{15} + \frac{8}{67} \sqrt{14}e^{26}$	$(\frac{8}{67}, \frac{8}{67}, -\frac{40}{201}, -\frac{40}{201}, \frac{16}{67}, \frac{16}{67}, -\frac{80}{201}, \frac{24}{67}, \frac{24}{67})$ $+ \frac{16}{201} \sqrt{174}e^5 \otimes e_7$	{1236789, 1379, 367, 1236789, 1379, 367}
942:50	$0, 0, 0, 0, 0, \frac{280}{867} \sqrt{3}e^{12}, \frac{28}{867} e^{34}, \frac{14}{867} \sqrt{1266}e^{16} - \frac{14}{867} \sqrt{798}e^{25},$ $\frac{14}{289} \sqrt{74}e^{15} + \frac{14}{289} \sqrt{22}e^{26}$	$(\frac{28}{289}, \frac{28}{289}, -\frac{154}{867}, -\frac{154}{867}, \frac{56}{289}, \frac{56}{289}, -\frac{308}{867}, \frac{84}{289}, \frac{84}{289})$ $+ \frac{56}{867} \sqrt{183}e^1 \otimes e_7$	{123458, 1258, 13456, 156, 2356789, 3579, 123458, 1258, 13456, 156, 2356789, 3579}
942:50	$0, 0, 0, 0, 0, \frac{280}{867} \sqrt{3}e^{12}, \frac{28}{867} e^{34}, \frac{14}{867} \sqrt{1266}e^{16} + \frac{14}{867} \sqrt{798}e^{25},$ $\frac{14}{289} \sqrt{74}e^{15} + \frac{14}{289} \sqrt{22}e^{26}$	$(\frac{28}{289}, \frac{28}{289}, -\frac{154}{867}, -\frac{154}{867}, \frac{56}{289}, \frac{56}{289}, -\frac{308}{867}, \frac{84}{289}, \frac{84}{289})$ $+ \frac{56}{867} \sqrt{183}e^1 \otimes e_7$	{123458, 1258, 13456, 156, 2356789, 3579, 123458, 1258, 13456, 156, 2356789, 3579}
942:50	$0, 0, 0, 0, 0, \frac{4}{103} \sqrt{123}e^{12}, \frac{2}{103} \sqrt{574}e^{34}, \frac{6}{103} \sqrt{41}e^{16} - \frac{2}{103} \sqrt{123}e^{25},$ $\frac{2}{103} \sqrt{123}e^{15} + \frac{6}{103} \sqrt{41}e^{26}$	$(\frac{9}{103}, \frac{9}{103}, \frac{96}{103}, -\frac{68}{103}, \frac{18}{103}, \frac{18}{103}, \frac{28}{103}, \frac{27}{103}, \frac{27}{103})$ $+ \frac{164}{103} e^3 \otimes e_4$	{123789, 124789, 13679, 14679, 37, 47, 123789, 124789, 13679, 14679, 37, 47}
942:50	$0, 0, 0, 0, 0, \frac{4}{103} \sqrt{123}e^{12}, \frac{2}{103} \sqrt{574}e^{34}, \frac{6}{103} \sqrt{41}e^{16} + \frac{2}{103} \sqrt{123}e^{25},$ $\frac{2}{103} \sqrt{123}e^{15} + \frac{6}{103} \sqrt{41}e^{26}$	$(\frac{9}{103}, \frac{9}{103}, \frac{96}{103}, -\frac{68}{103}, \frac{18}{103}, \frac{18}{103}, \frac{28}{103}, \frac{27}{103}, \frac{27}{103})$ $+ \frac{164}{103} e^3 \otimes e_4$	{123789, 124789, 13679, 14679, 37, 47, 123789, 124789, 13679, 14679, 37, 47}
942:50	$0, 0, 0, 0, 0, \frac{16}{265} \sqrt{42}e^{12}, \frac{16}{265} \sqrt{67}e^{34}, \frac{24}{265} \sqrt{14}e^{16} - \frac{24}{265} \sqrt{34}e^{25},$ $\frac{24}{265} \sqrt{34}e^{15} + \frac{24}{265} \sqrt{14}e^{26}$	$(\frac{24}{265}, \frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{48}{265}, -\frac{16}{265}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{128}{265} e^3 \otimes e_4 - \frac{16}{265} \sqrt{174}e^5 \otimes e_7$	{1236789, 1246789, 1379, 1479, 367, 467, 1236789, 1246789, 1379, 1479, 367, 467}
942:50	$0, 0, 0, 0, 0, \frac{16}{265} \sqrt{42}e^{12}, \frac{16}{265} \sqrt{67}e^{34}, \frac{24}{265} \sqrt{14}e^{16} - \frac{24}{265} \sqrt{34}e^{25},$ $\frac{24}{265} \sqrt{34}e^{15} + \frac{24}{265} \sqrt{14}e^{26}$	$(\frac{24}{265}, \frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{48}{265}, -\frac{16}{265}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{128}{265} e^3 \otimes e_4 + \frac{16}{265} \sqrt{174}e^5 \otimes e_7$	{1236789, 1246789, 1379, 1479, 367, 467, 1236789, 1246789, 1379, 1479, 367, 467}
942:50	$0, 0, 0, 0, 0, \frac{16}{265} \sqrt{42}e^{12}, \frac{16}{265} \sqrt{67}e^{34}, \frac{24}{265} \sqrt{14}e^{16} + \frac{24}{265} \sqrt{34}e^{25},$ $\frac{24}{265} \sqrt{34}e^{15} + \frac{24}{265} \sqrt{14}e^{26}$	$(\frac{24}{265}, \frac{24}{265}, \frac{24}{265}, -\frac{104}{265}, \frac{48}{265}, \frac{48}{265}, -\frac{16}{265}, \frac{72}{265}, \frac{72}{265})$ $+ \frac{128}{265} e^3 \otimes e_4 + \frac{16}{265} \sqrt{174}e^5 \otimes e_7$	{1236789, 1246789, 1379, 1479, 2378, 2478, 367, 467, 1236789, 1246789, 1379, 1479, 2378, 2478, 367, 467}
942:50	$0, 0, 0, 0, 0, \frac{280}{1063} \sqrt{3}e^{12}, \frac{476}{1063} e^{34}, \frac{14}{1063} \sqrt{1266}e^{16} - \frac{14}{1063} \sqrt{798}e^{25},$ $\frac{42}{1063} \sqrt{74}e^{15} + \frac{42}{1063} \sqrt{22}e^{26}$	$(\frac{84}{1063}, \frac{84}{1063}, \frac{42}{1063}, -\frac{350}{1063}, \frac{168}{1063}, \frac{168}{1063}, -\frac{308}{1063}, \frac{252}{1063}, \frac{252}{1063})$ $+ \frac{56}{1063} e^3 \otimes e_4 + \frac{56}{1063} \sqrt{183}e^1 \otimes e_7$	{2356789, 2456789, 3579, 4579, 2356789, 2456789, 3579, 4579}
942:50	$0, 0, 0, 0, 0, \frac{280}{1063} \sqrt{3}e^{12}, \frac{476}{1063} e^{34}, \frac{14}{1063} \sqrt{1266}e^{16} + \frac{14}{1063} \sqrt{798}e^{25},$ $\frac{42}{1063} \sqrt{74}e^{15} + \frac{42}{1063} \sqrt{22}e^{26}$	$(\frac{84}{1063}, \frac{84}{1063}, \frac{42}{1063}, -\frac{350}{1063}, \frac{168}{1063}, \frac{168}{1063}, -\frac{308}{1063}, \frac{252}{1063}, \frac{252}{1063})$ $+ \frac{392}{1063} e^3 \otimes e_4 + \frac{56}{1063} \sqrt{183}e^1 \otimes e_7$	{2356789, 2456789, 3579, 4579, 2356789, 2456789, 3579, 4579}
942:50	$0, 0, 0, 0, 0, \frac{8}{843} \sqrt{231}e^{12}, \frac{4}{843} \sqrt{21637}e^{34}, \frac{2}{843} \sqrt{8778}e^{16} - \frac{70}{843} \sqrt{66}e^{25},$ $\frac{2}{843} \sqrt{28182}e^{15} + \frac{2}{843} \sqrt{30030}e^{26}$	$(-\frac{6}{281}, -\frac{6}{281}, \frac{2}{3}, \frac{146}{843}, -\frac{12}{281}, -\frac{12}{281}, \frac{416}{843}, -\frac{18}{281}, -\frac{18}{281})$ $+ \frac{8}{843} \sqrt{13629}e^3 \otimes e_8$	{1234569, 1235679, 145789, 1589, 2345, 2357, 45678, 568, 1234569, 1235679, 145789, 1589, 2345, 2357, 45678, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:50	$0, 0, 0, 0, 0, \frac{8}{843}\sqrt{231}e^{12}, \frac{4}{843}\sqrt{21637}e^{34}, \frac{2}{281}\sqrt{8778}e^{16} + \frac{70}{843}\sqrt{66}e^{25},$ $\frac{2}{843}\sqrt{28182}e^{15} + \frac{2}{843}\sqrt{30030}e^{26}$	$(-\frac{6}{281}, -\frac{6}{281}, \frac{2}{3}, -\frac{146}{843}, -\frac{12}{281}, -\frac{12}{281}, \frac{416}{843}, -\frac{18}{281}, -\frac{18}{281})$ $+\frac{8}{843}\sqrt{13629}e^3 \otimes e_8$	{1234569, 1235679, 145789, 1589, 2345, 2357, 45678, 568, 1234569, 1235679, 145789, 1589, 2345, 2357, 45678, 568}
942:50	$0, 0, 0, 0, 0, \frac{16}{267}\sqrt{6}e^{12}, \frac{8}{267}\sqrt{267}e^{34}, \frac{4}{267}\sqrt{282}e^{16} - \frac{4}{267}\sqrt{330}e^{25},$ $\frac{4}{267}\sqrt{330}e^{15} + \frac{4}{267}\sqrt{282}e^{26}$	$(-\frac{4}{89}, -\frac{4}{89}, \frac{20}{89}, \frac{20}{89}, -\frac{8}{89}, -\frac{8}{89}, \frac{40}{89}, -\frac{12}{89}, -\frac{12}{89})$ $+\frac{8}{267}\sqrt{354}e^3 \otimes e_8 + \frac{8}{267}\sqrt{354}e^4 \otimes e_9$	{123456, 14578, 5689, 123456, 14578, 5689}
942:50	$0, 0, 0, 0, 0, \frac{16}{267}\sqrt{6}e^{12}, \frac{8}{267}\sqrt{267}e^{34}, \frac{4}{267}\sqrt{282}e^{16} + \frac{4}{267}\sqrt{330}e^{25},$ $\frac{4}{267}\sqrt{330}e^{15} + \frac{4}{267}\sqrt{282}e^{26}$	$(-\frac{4}{89}, -\frac{4}{89}, \frac{20}{89}, \frac{20}{89}, -\frac{8}{89}, -\frac{8}{89}, \frac{40}{89}, -\frac{12}{89}, -\frac{12}{89})$ $+\frac{8}{267}\sqrt{354}e^3 \otimes e_8 + \frac{8}{267}\sqrt{354}e^4 \otimes e_9$	{123456, 14578, 5689, 123456, 14578, 5689}
942:51	$0, 0, 0, 0, 0, \frac{10}{4037}\sqrt{6}e^{12}, \frac{30}{4037}\sqrt{113}e^{14} + \frac{5}{4037}\sqrt{4758}e^{23},$ $\frac{5}{4037}\sqrt{1362}e^{13} + \frac{10}{4037}\sqrt{1353}e^{26}, \frac{5}{4037}\sqrt{4766}e^{16} + \frac{130}{4037}\sqrt{6}e^{34}$	$(-\frac{20}{4037}, -\frac{15}{4037}, -\frac{30}{4037}, -\frac{25}{4037}, \frac{300}{4037}, -\frac{35}{4037}, -\frac{45}{4037}, -\frac{50}{4037}, -\frac{5}{367})$ $+\frac{5}{4037}\sqrt{7474}e^4 \otimes e_8$	{134, 1345}
942:51	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12}, \frac{1}{8}\sqrt{42}e^{14} + \frac{5}{8}\sqrt{2}e^{23},$ $\frac{1}{4}\sqrt{2}e^{13} + \frac{1}{8}\sqrt{10}e^{26}, \frac{1}{8}\sqrt{6}e^{16} + \frac{1}{4}\sqrt{6}e^{34}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{8}\sqrt{110}e^5 \otimes e_7$	{235, 34679}
942:51	$0, 0, 0, 0, 0, \frac{61}{4149}\sqrt{842}e^{12}, \frac{122}{4149}\sqrt{401}e^{14} + \frac{244}{4149}\sqrt{165}e^{23},$ $\frac{305}{4149}\sqrt{106}e^{13} + \frac{61}{4149}\sqrt{1370}e^{26}, \frac{122}{4149}\sqrt{5}e^{16} + \frac{122}{4149}\sqrt{386}e^{34}$	$(\frac{488}{4149}, \frac{122}{1383}, \frac{244}{1383}, \frac{610}{4149}, -\frac{2989}{4149}, \frac{854}{4149}, \frac{122}{461}, \frac{1220}{4149}, \frac{1342}{4149})$ $+\frac{61}{4149}\sqrt{7138}e^3 \otimes e_5$	{12456789, 158}
942:51	$0, 0, 0, 0, 0, \frac{20}{177}\sqrt{87}e^{12}, \frac{10}{177}\sqrt{219}e^{14} + \frac{50}{177}\sqrt{2}e^{23},$ $\frac{10}{177}\sqrt{87}e^{13} + \frac{10}{177}\sqrt{159}e^{26}, \frac{50}{177}\sqrt{6}e^{16} + \frac{10}{177}\sqrt{237}e^{34}$	$(\frac{20}{177}, \frac{5}{59}, \frac{10}{59}, \frac{25}{177}, -\frac{125}{177}, \frac{35}{177}, \frac{15}{59}, \frac{50}{177}, \frac{55}{177})$ $+\frac{10}{177}\sqrt{453}e^4 \otimes e_5$	{23467, 359}
942:51	$0, 0, 0, 0, 0, \frac{29}{1113}\sqrt{886}e^{12}, \frac{29}{1113}\sqrt{187}e^{14} + \frac{145}{1113}\sqrt{14}e^{23},$ $\frac{29}{1113}\sqrt{595}e^{13} + \frac{116}{1113}\sqrt{51}e^{26}, \frac{29}{1113}\sqrt{23}e^{16} + \frac{464}{1113}e^{34}$	$(\frac{116}{1113}, \frac{29}{371}, \frac{58}{371}, \frac{145}{1113}, -\frac{754}{1113}, \frac{29}{159}, \frac{87}{371}, \frac{290}{1113}, \frac{319}{1113})$ $+\frac{29}{1113}\sqrt{1867}e^2 \otimes e_5$	{12389, 1345678}
942:51	$0, 0, 0, 0, 0, \frac{59}{4349}\sqrt{2038}e^{12}, \frac{59}{4349}\sqrt{1410}e^{14} + \frac{59}{4349}\sqrt{626}e^{23},$ $\frac{1770}{4349}\sqrt{2}e^{13} + \frac{118}{4349}\sqrt{195}e^{26}, \frac{59}{4349}\sqrt{2506}e^{16} + \frac{1475}{4349}\sqrt{2}e^{34}$	$(\frac{472}{4349}, \frac{354}{4349}, \frac{708}{4349}, \frac{590}{4349}, -\frac{3009}{4349}, \frac{826}{4349}, \frac{1062}{4349}, \frac{1180}{4349}, \frac{1298}{4349})$ $+\frac{59}{4349}\sqrt{7358}e^1 \otimes e_5$	{23456789, 358}
942:52	$0, 0, 0, 0, 0, \frac{176}{1295}\sqrt{3}e^{12}, \frac{44}{1295}\sqrt{282}e^{13} + \frac{44}{1295}\sqrt{353}e^{24},$ $\frac{132}{1295}e^{16} + \frac{44}{1295}\sqrt{282}e^{34}, \frac{88}{1295}\sqrt{47}e^{26} + \frac{132}{1295}\sqrt{41}e^{35}$	$(\frac{88}{259}, -\frac{374}{1295}, -\frac{22}{185}, \frac{132}{1295}, -\frac{22}{185}, \frac{66}{1295}, \frac{286}{1295}, \frac{506}{1295}, -\frac{44}{185})$ $+\frac{264}{1295}\sqrt{30}e^4 \otimes e_9$	{123789, 1569}
942:52	$0, 0, 0, 0, 0, \frac{8}{407}\sqrt{102}e^{12}, \frac{16}{407}\sqrt{210}e^{13} + \frac{8}{407}\sqrt{669}e^{24},$ $\frac{8}{407}\sqrt{1065}e^{16} + \frac{8}{407}\sqrt{246}e^{34}, \frac{16}{407}\sqrt{222}e^{26} + \frac{8}{407}\sqrt{1065}e^{35}$	$(-\frac{64}{407}, \frac{84}{407}, \frac{52}{407}, -\frac{96}{407}, \frac{52}{407}, \frac{20}{407}, -\frac{12}{407}, -\frac{4}{37}, \frac{104}{407})$ $+\frac{8}{407}\sqrt{1086}e^5 \otimes e_8$	{234689, 4579}
942:52	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{2}e^{12}, \frac{8}{71}\sqrt{3}e^{13} + \frac{4}{71}\sqrt{71}e^{24},$ $\frac{4}{71}\sqrt{43}e^{16} + \frac{12}{71}\sqrt{6}e^{34}, \frac{4}{71}\sqrt{58}e^{26} + \frac{4}{71}\sqrt{65}e^{35}$	$(-\frac{8}{71}, \frac{10}{71}, \frac{6}{71}, -\frac{12}{71}, \frac{6}{71}, \frac{2}{71}, -\frac{2}{71}, -\frac{6}{71}, \frac{12}{71})$ $+\frac{4}{71}\sqrt{66}e^5 \otimes e_7$	{123679, 124569, 134789, 1589}
942:52	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{2}e^{12}, \frac{8}{71}\sqrt{3}e^{13} + \frac{4}{71}\sqrt{71}e^{24},$ $\frac{4}{71}\sqrt{43}e^{16} + \frac{12}{71}\sqrt{6}e^{34}, \frac{4}{71}\sqrt{58}e^{26} + \frac{4}{71}\sqrt{65}e^{35}$	$(-\frac{8}{71}, \frac{10}{71}, \frac{6}{71}, -\frac{12}{71}, \frac{6}{71}, \frac{2}{71}, -\frac{2}{71}, -\frac{6}{71}, \frac{12}{71})$ $-\frac{4}{71}\sqrt{66}e^5 \otimes e_7$	{123679, 124569, 134789, 1589}
942:53	$0, 0, 0, 0, 0, \frac{52}{277}\sqrt{7}e^{12}, \frac{26}{277}\sqrt{51}e^{14} + \frac{182}{277}e^{23},$ $\frac{26}{277}\sqrt{19}e^{16} + \frac{15}{277}\sqrt{218}e^{34}, \frac{65}{277}\sqrt{6}e^{26} + \frac{2143}{277}\sqrt{2}e^{35}$	$(-\frac{52}{277}, \frac{65}{277}, -\frac{78}{277}, \frac{39}{277}, \frac{156}{277}, \frac{13}{277}, -\frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^5 \otimes e_7$	{235, 247}
942:53	$0, 0, 0, 0, 0, \frac{61}{4773}\sqrt{1126}e^{12}, \frac{427}{4773}\sqrt{30}e^{14} + \frac{61}{4773}\sqrt{402}e^{23},$ $\frac{61}{4773}\sqrt{3802}e^{16} + \frac{61}{4773}\sqrt{1390}e^{34}, \frac{122}{4773}\sqrt{445}e^{26} + \frac{61}{4773}\sqrt{3446}e^{35}$	$(-\frac{976}{4773}, \frac{427}{1591}, -\frac{488}{1591}, \frac{793}{4773}, \frac{3050}{4773}, \frac{305}{4773}, -\frac{61}{1591}, -\frac{671}{4773}, \frac{1586}{4773})$ $+\frac{122}{4773}\sqrt{2010}e^5 \otimes e_8$	{236789, 579}
942:53	$0, 0, 0, 0, 0, \frac{7}{4477}\sqrt{442}e^{12}, \frac{7}{4477}\sqrt{4758}e^{14} + \frac{7}{4477}\sqrt{5330}e^{23},$ $\frac{7}{4477}\sqrt{4726}e^{16} + \frac{7}{4477}\sqrt{4294}e^{34}, \frac{98}{4477}\sqrt{30}e^{26} + \frac{7}{4477}\sqrt{1370}e^{35}$	$(\frac{140}{4477}, -\frac{119}{4477}, \frac{210}{4477}, -\frac{49}{4477}, -\frac{28}{407}, \frac{21}{4477}, \frac{91}{4477}, \frac{161}{4477}, -\frac{98}{4477})$ $+\frac{70}{4477}\sqrt{82}e^4 \otimes e_9$	{234567, 478}
942:54	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, -\frac{8}{41}\sqrt{10}e^{13} + \frac{8}{41}\sqrt{10}e^{24},$ $\frac{8}{41}\sqrt{3}e^{16} + \frac{4}{41}\sqrt{34}e^{35}, \frac{8}{41}\sqrt{3}e^{26} + \frac{4}{41}\sqrt{34}e^{45}$	$(\frac{4}{41}, \frac{4}{41}, -\frac{12}{41}, -\frac{12}{41}, \frac{24}{41}, \frac{8}{41}, -\frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^5 \otimes e_7$	{1359, 1479, 1359, 1479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:54	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{10}e^{13} + \frac{8}{41}\sqrt{10}e^{24},$ $\frac{8}{41}\sqrt{3}e^{16} + \frac{4}{41}\sqrt{34}e^{35}, \frac{8}{41}\sqrt{3}e^{26} + \frac{4}{41}\sqrt{34}e^{45}$	$(\frac{4}{41}, \frac{4}{41}, -\frac{12}{41}, -\frac{12}{41}, \frac{24}{41}, \frac{8}{41}, -\frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^5 \otimes e_7$	{1359, 1479, 1359, 1479}
942:54	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, -\frac{10}{629}\sqrt{1294}e^{13} + \frac{10}{629}\sqrt{938}e^{24},$ $\frac{10}{629}\sqrt{946}e^{16} + \frac{10}{629}\sqrt{542}e^{35}, \frac{10}{629}\sqrt{1286}e^{26} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, \frac{10}{37}, -\frac{200}{629}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{62}e^3 \otimes e_9$	{12368, 1345, 2589, 469, 12368, 1345, 2589, 469}
942:54	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{10}{629}\sqrt{1294}e^{13} + \frac{10}{629}\sqrt{938}e^{24},$ $\frac{10}{629}\sqrt{946}e^{16} + \frac{10}{629}\sqrt{542}e^{35}, \frac{10}{629}\sqrt{1286}e^{26} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, \frac{10}{37}, -\frac{200}{629}, -\frac{20}{629}, \frac{160}{629}, -\frac{30}{629}, -\frac{30}{629})$ $+ \frac{60}{629}\sqrt{62}e^3 \otimes e_9$	{12368, 1345, 2589, 469, 12368, 1345, 2589, 469}
942:56	$0, 0, 0, 0, 0, \frac{6}{241}\sqrt{438}e^{12}, \frac{96}{241}\sqrt{3}e^{34}, \frac{12}{241}\sqrt{39}e^{16} + \frac{6}{241}\sqrt{690}e^{35},$ $\frac{36}{241}\sqrt{22}e^{13} + \frac{12}{241}\sqrt{39}e^{26} + \frac{6}{241}\sqrt{690}e^{45}$	$(\frac{60}{241}, -\frac{6}{241}, -\frac{12}{241}, -\frac{78}{241}, \frac{126}{241}, \frac{54}{241}, -\frac{90}{241}, \frac{114}{241}, \frac{48}{241})$ $+ \frac{6}{241}\sqrt{2370}e^5 \otimes e_7$	{23678, 345}
942:56	$0, 0, 0, 0, 0, \frac{212}{5677}\sqrt{218}e^{12}, \frac{1431}{5677}\sqrt{6}e^{34},$ $\frac{53}{5677}\sqrt{4962}e^{16} + \frac{106}{811}\sqrt{15}e^{35}, \frac{53}{5677}\sqrt{890}e^{13} + \frac{53}{5677}\sqrt{1482}e^{26} + \frac{53}{5677}\sqrt{282}e^{45}$	$(\frac{1007}{5677}, -\frac{159}{5677}, -\frac{318}{5677}, -\frac{212}{811}, \frac{2173}{5677}, \frac{848}{5677}, -\frac{1802}{5677}, \frac{265}{811}, \frac{689}{5677})$ $+ \frac{159}{5677}\sqrt{1074}e^1 \otimes e_7$	{123458, 2356789}
942:56	$0, 0, 0, 0, 0, \frac{17}{1417}\sqrt{1343}e^{12}, \frac{17}{1417}\sqrt{1446}e^{34}, \frac{17}{1417}\sqrt{83}e^{16} + \frac{272}{1417}e^{35},$ $\frac{17}{1417}\sqrt{1195}e^{13} + \frac{17}{1417}\sqrt{1559}e^{26} + \frac{17}{1417}\sqrt{565}e^{45}$	$(\frac{153}{1417}, -\frac{34}{1417}, -\frac{68}{1417}, -\frac{255}{1417}, \frac{340}{1417}, \frac{119}{1417}, -\frac{323}{1417}, \frac{272}{1417}, \frac{85}{1417})$ $+ \frac{17}{1417}\sqrt{2463}e^2 \otimes e_7$	{123459, 136789}
942:56	$0, 0, 0, 0, 0, \frac{13}{722}\sqrt{518}e^{12}, \frac{13}{722}\sqrt{906}e^{34}, \frac{13}{361}\sqrt{337}e^{16} + \frac{13}{361}\sqrt{58}e^{35},$ $\frac{13}{361}\sqrt{277}e^{13} + \frac{13}{361}\sqrt{70}e^{26} + \frac{13}{722}\sqrt{1046}e^{45}$	$(-\frac{39}{361}, \frac{26}{361}, \frac{52}{361}, \frac{117}{361}, -\frac{104}{361}, -\frac{13}{361}, \frac{169}{361}, -\frac{52}{361}, \frac{13}{361})$ $+ \frac{13}{722}\sqrt{2442}e^4 \otimes e_8$	{25689, 479}
942:57	$0, 0, 0, 0, 0, \frac{410}{4973}\sqrt{21}e^{12}, \frac{82}{4973}\sqrt{1149}e^{14} + \frac{41}{4973}\sqrt{3282}e^{35},$ $\frac{82}{4973}\sqrt{651}e^{13} + \frac{164}{4973}\sqrt{249}e^{26}, \frac{41}{4973}\sqrt{4610}e^{16} + \frac{123}{4973}\sqrt{394}e^{34}$	$(\frac{205}{4973}, -\frac{492}{4973}, -\frac{984}{4973}, \frac{902}{4973}, \frac{2091}{4973}, -\frac{287}{4973}, \frac{1107}{4973}, -\frac{779}{4973}, -\frac{82}{4973})$ $+ \frac{41}{4973}\sqrt{9046}e^4 \otimes e_8$	{134, 2389}
942:57	$0, 0, 0, 0, 0, \frac{71}{5029}\sqrt{622}e^{12}, \frac{71}{5029}\sqrt{614}e^{14} + \frac{284}{5029}\sqrt{110}e^{35},$ $\frac{142}{5029}\sqrt{965}e^{13} + \frac{213}{5029}\sqrt{30}e^{26}, \frac{71}{5029}\sqrt{1670}e^{16} + \frac{284}{5029}\sqrt{3414}e^{34}$	$(\frac{213}{5029}, \frac{1136}{5029}, \frac{2272}{5029}, -\frac{710}{5029}, -\frac{2769}{5029}, \frac{1349}{5029}, -\frac{497}{5029}, \frac{2485}{5029}, \frac{1562}{5029})$ $+ \frac{71}{5029}\sqrt{8678}e^3 \otimes e_5$	{158, 2459}
942:57	$0, 0, 0, 0, 0, \frac{138}{1823}\sqrt{5}e^{12}, \frac{23}{1823}\sqrt{870}e^{14} + \frac{23}{1823}\sqrt{3486}e^{35},$ $\frac{23}{1823}\sqrt{2130}e^{13} + \frac{23}{1823}\sqrt{3138}e^{26}, \frac{23}{1823}\sqrt{606}e^{16} + \frac{46}{1823}\sqrt{195}e^{34}$	$(\frac{161}{1823}, -\frac{253}{1823}, -\frac{506}{1823}, \frac{575}{1823}, \frac{1242}{1823}, -\frac{92}{1823}, \frac{736}{1823}, -\frac{345}{1823}, \frac{69}{1823})$ $+ \frac{23}{1823}\sqrt{9138}e^5 \otimes e_8$	{1689, 579}
942:58	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{7}{317}\sqrt{217}e^{13} + \frac{7}{317}\sqrt{237}e^{45},$ $\frac{7}{317}\sqrt{215}e^{16} + \frac{7}{317}\sqrt{174}e^{23}, \frac{7}{317}\sqrt{323}e^{26} + \frac{49}{317}\sqrt{6}e^{34}$	$(-\frac{7}{317}, \frac{28}{317}, -\frac{14}{317}, \frac{63}{317}, -\frac{84}{317}, \frac{21}{317}, -\frac{21}{317}, \frac{14}{317}, \frac{49}{317})$ $+ \frac{7}{317}\sqrt{565}e^2 \otimes e_7$	{123459, 3578}
942:58	$0, 0, 0, 0, 0, \frac{67}{5397}\sqrt{1634}e^{12}, \frac{67}{1799}\sqrt{174}e^{13} + \frac{67}{5397}\sqrt{3290}e^{45},$ $\frac{134}{5397}\sqrt{155}e^{16} + \frac{67}{5397}\sqrt{1442}e^{23}, \frac{871}{1799}\sqrt{2}e^{26} + \frac{67}{5397}\sqrt{2490}e^{34}$	$(\frac{201}{1799}, -\frac{670}{5397}, \frac{402}{1799}, -\frac{1943}{5397}, \frac{536}{771}, -\frac{67}{5397}, \frac{603}{1799}, \frac{536}{5397}, -\frac{737}{5397})$ $+ \frac{670}{5397}\sqrt{89}e^5 \otimes e_9$	{234568, 345}
942:58	$0, 0, 0, 0, 0, \frac{392}{5063}\sqrt{5}e^{12}, \frac{98}{5063}\sqrt{942}e^{13} + \frac{49}{5063}\sqrt{4834}e^{45},$ $\frac{245}{5063}\sqrt{158}e^{16} + \frac{49}{5063}\sqrt{4094}e^{23}, \frac{245}{5063}\sqrt{82}e^{26} + \frac{196}{5063}\sqrt{38}e^{34}$	$(\frac{392}{5063}, -\frac{539}{5063}, \frac{784}{5063}, -\frac{1470}{5063}, \frac{2646}{5063}, -\frac{147}{5063}, \frac{1176}{5063}, \frac{245}{5063}, -\frac{686}{5063})$ $+ \frac{98}{5063}\sqrt{2210}e^5 \otimes e_8$	{1456, 579}
942:58	$0, 0, 0, 0, 0, \frac{77}{5077}\sqrt{1558}e^{12}, \frac{77}{5077}\sqrt{1670}e^{13} + \frac{77}{5077}\sqrt{526}e^{45},$ $\frac{1540}{5077}\sqrt{5}e^{16} + \frac{77}{5077}\sqrt{1270}e^{23}, \frac{77}{5077}\sqrt{1326}e^{26} + \frac{77}{5077}\sqrt{4982}e^{34}$	$(-\frac{77}{5077}, \frac{1386}{5077}, -\frac{154}{5077}, \frac{2849}{5077}, -\frac{3080}{5077}, \frac{1309}{5077}, -\frac{231}{5077}, \frac{1232}{5077}, \frac{2695}{5077})$ $+ \frac{154}{5077}\sqrt{2105}e^4 \otimes e_5$	{235689, 359}
942:58	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{14}{317}\sqrt{87}e^{13} + \frac{7}{317}\sqrt{237}e^{45},$ $\frac{35}{317}\sqrt{14}e^{16} + \frac{7}{317}\sqrt{174}e^{23}, \frac{7}{317}\sqrt{2}e^{26} + \frac{7}{317}\sqrt{271}e^{34}$	$(-\frac{7}{317}, \frac{28}{317}, -\frac{14}{317}, \frac{63}{317}, -\frac{84}{317}, \frac{21}{317}, -\frac{21}{317}, \frac{14}{317}, \frac{49}{317})$ $+ \frac{7}{317}\sqrt{565}e^4 \otimes e_8$	{128, 479}
942:59	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{182}e^{12}, \frac{1}{26}\sqrt{130}e^{14} + \frac{1}{13}\sqrt{78}e^{35},$ $\frac{1}{13}\sqrt{26}e^{16} + \frac{1}{26}\sqrt{598}e^{23}, \frac{3}{26}\sqrt{26}e^{26} + \frac{1}{26}\sqrt{390}e^{34}$	$(\frac{1}{4}, 0, \frac{1}{2}, -\frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, 0, \frac{1}{2}, \frac{1}{4})$ $+ \frac{3}{26}\sqrt{130}e^3 \otimes e_5$	{1245689, 1459, 258, 56}
942:59	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{182}e^{12}, \frac{1}{26}\sqrt{130}e^{14} + \frac{1}{13}\sqrt{78}e^{35},$ $\frac{1}{13}\sqrt{26}e^{16} + \frac{1}{26}\sqrt{598}e^{23}, \frac{3}{26}\sqrt{26}e^{26} + \frac{1}{26}\sqrt{390}e^{34}$	$(\frac{1}{4}, 0, \frac{1}{2}, -\frac{1}{4}, -\frac{1}{2}, \frac{1}{4}, 0, \frac{1}{2}, \frac{1}{4})$ $- \frac{3}{26}\sqrt{130}e^3 \otimes e_5$	{1245689, 1459, 258, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:59	$0, 0, 0, 0, 0, \frac{111}{2671}\sqrt{182e^{12}}, \frac{74}{2671}\sqrt{626e^{14}} + \frac{74}{2671}\sqrt{498e^{35}},$ $\frac{37}{2671}\sqrt{398e^{16}} + \frac{111}{2671}\sqrt{326e^{23}}, \frac{37}{2671}\sqrt{1290e^{26}} + \frac{111}{2671}\sqrt{118e^{34}}$	$(-\frac{370}{2671}, \frac{259}{2671}, -\frac{740}{2671}, \frac{888}{2671}, \frac{1258}{2671}, -\frac{111}{2671}, \frac{518}{2671}, -\frac{481}{2671}, \frac{148}{2671})$ $+ \frac{37}{2671}\sqrt{4818e^4} \otimes e_8$	{135789, 23457}
942:59	$0, 0, 0, 0, 0, \frac{1}{338}\sqrt{118e^{12}}, \frac{1}{338}\sqrt{978e^{14}} + \frac{9}{338}\sqrt{2e^{35}},$ $\frac{1}{338}\sqrt{786e^{16}} + \frac{1}{169}\sqrt{182e^{23}}, \frac{5}{338}\sqrt{30e^{26}} + \frac{1}{169}\sqrt{210e^{34}}$	$(\frac{3}{169}, -\frac{1}{169}, \frac{6}{169}, -\frac{5}{169}, -\frac{8}{169}, \frac{2}{169}, -\frac{2}{169}, \frac{5}{169}, \frac{1}{169})$ $+ \frac{1}{338}\sqrt{1254e^2} \otimes e_7$	{12468, 289}
942:59	$0, 0, 0, 0, 0, \frac{264}{1007}\sqrt{5e^{12}}, \frac{11}{1007}\sqrt{3606e^{14}} + \frac{11}{1007}\sqrt{3666e^{35}},$ $\frac{22}{1007}\sqrt{579e^{16}} + \frac{11}{1007}\sqrt{4170e^{23}}, \frac{66}{1007}\sqrt{47e^{26}} + \frac{22}{1007}\sqrt{705e^{34}}$	$(-\frac{121}{1007}, \frac{77}{1007}, -\frac{242}{1007}, \frac{275}{1007}, \frac{396}{1007}, -\frac{44}{1007}, \frac{154}{1007}, -\frac{165}{1007}, \frac{33}{1007})$ $+ \frac{11}{1007}\sqrt{5178e^5} \otimes e_9$	{234568, 345}
942:60	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51e^{12}}, -\frac{2}{73}\sqrt{13e^{13}} + \frac{1}{73}\sqrt{66e^{45}}, \frac{1}{73}\sqrt{23e^{16}},$ $\frac{1}{73}\sqrt{59e^{14}} + \frac{1}{73}\sqrt{91e^{26}} + \frac{1}{73}\sqrt{5e^{35}}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, -\frac{4}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{131e^2} \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:60	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51e^{12}}, \frac{2}{73}\sqrt{13e^{13}} + \frac{1}{73}\sqrt{66e^{45}}, \frac{1}{73}\sqrt{23e^{16}},$ $\frac{1}{73}\sqrt{59e^{14}} + \frac{1}{73}\sqrt{91e^{26}} + \frac{3}{73}\sqrt{5e^{35}}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, -\frac{4}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{131e^2} \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:60	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51e^{12}}, -\frac{1}{73}\sqrt{79e^{13}} + \frac{1}{73}\sqrt{66e^{45}}, \frac{6}{73}\sqrt{3e^{16}},$ $\frac{1}{73}\sqrt{59e^{14}} + \frac{1}{73}\sqrt{10e^{26}} + \frac{1}{73}\sqrt{86e^{35}}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, -\frac{4}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{131e^5} \otimes e_8$	{128, 13567, 23689, 579, 128, 13567, 23689, 579}
942:60	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51e^{12}}, \frac{1}{73}\sqrt{79e^{13}} + \frac{1}{73}\sqrt{66e^{45}}, \frac{6}{73}\sqrt{3e^{16}},$ $\frac{1}{73}\sqrt{59e^{14}} + \frac{1}{73}\sqrt{10e^{26}} + \frac{1}{73}\sqrt{86e^{35}}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, -\frac{4}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{131e^5} \otimes e_8$	{128, 13567, 23689, 579, 128, 13567, 23689, 579}
942:60	$0, 0, 0, 0, 0, \frac{58}{1179}\sqrt{255e^{16}}, \frac{29}{1179}\sqrt{559e^{14}} + \frac{406}{1179}\sqrt{2e^{26}} + \frac{29}{1179}\sqrt{1065e^{35}},$ $\frac{58}{1179}\sqrt{255e^{16}}, \frac{29}{1179}\sqrt{559e^{14}} + \frac{406}{1179}\sqrt{2e^{26}} + \frac{29}{1179}\sqrt{1065e^{35}}$	$(-\frac{290}{1179}, \frac{29}{131}, \frac{58}{131}, \frac{58}{131}, -\frac{290}{1179}, -\frac{29}{1179}, \frac{232}{1179}, -\frac{319}{1179}, \frac{232}{1179})$ $+ \frac{58}{1179}\sqrt{502e^3} \otimes e_8$	{1278, 1356, 25689, 379, 1278, 1356, 25689, 379}
942:60	$0, 0, 0, 0, 0, \frac{58}{1179}\sqrt{255e^{16}}, \frac{29}{1179}\sqrt{559e^{14}} + \frac{406}{1179}\sqrt{2e^{26}} + \frac{29}{1179}\sqrt{1065e^{35}},$ $\frac{58}{1179}\sqrt{255e^{16}}, \frac{29}{1179}\sqrt{559e^{14}} + \frac{406}{1179}\sqrt{2e^{26}} + \frac{29}{1179}\sqrt{1065e^{35}}$	$(-\frac{290}{1179}, \frac{29}{131}, \frac{58}{131}, \frac{58}{131}, -\frac{290}{1179}, -\frac{29}{1179}, \frac{232}{1179}, -\frac{319}{1179}, \frac{232}{1179})$ $+ \frac{58}{1179}\sqrt{502e^3} \otimes e_8$	{1278, 1356, 25689, 379, 1278, 1356, 25689, 379}
942:61	$0, 0, 0, 0, 0, \frac{164}{3703}\sqrt{55e^{12}}, \frac{41}{3703}\sqrt{3406e^{13}} + \frac{41}{3703}\sqrt{1858e^{45}},$ $\frac{205}{3703}\sqrt{138e^{26}}, \frac{328}{3703}\sqrt{47e^{16}} + \frac{328}{3703}e^{24} + \frac{123}{3703}\sqrt{326e^{35}}$	$(\frac{656}{3703}, -\frac{902}{3703}, \frac{533}{3703}, \frac{1312}{3703}, -\frac{123}{3703}, -\frac{246}{3703}, \frac{1189}{3703}, -\frac{164}{529}, \frac{410}{3703})$ $+ \frac{164}{3703}\sqrt{411e^3} \otimes e_8$	{135, 2589}
942:61	$0, 0, 0, 0, 0, \frac{70}{247}\sqrt{2e^{12}}, \frac{7}{247}\sqrt{226e^{13}} + \frac{7}{247}\sqrt{262e^{45}}, \frac{7}{247}\sqrt{258e^{26}},$ $\frac{28}{247}\sqrt{2e^{16}} + \frac{14}{247}\sqrt{78e^{24}} + \frac{7}{247}\sqrt{246e^{35}}$	$(\frac{28}{247}, -\frac{42}{247}, \frac{21}{247}, \frac{56}{247}, -\frac{7}{247}, -\frac{14}{247}, \frac{49}{247}, -\frac{56}{247}, \frac{14}{247})$ $+ \frac{84}{247}\sqrt{3e^5} \otimes e_8$	{1234789, 345}
942:61	$0, 0, 0, 0, 0, \frac{59}{3949}\sqrt{190e^{12}}, \frac{59}{3949}\sqrt{230e^{13}} + \frac{118}{3949}\sqrt{559e^{45}},$ $\frac{118}{3949}\sqrt{582e^{26}}, \frac{236}{3949}\sqrt{46e^{16}} + \frac{295}{3949}\sqrt{66e^{24}} + \frac{59}{3949}\sqrt{690e^{35}}$	$(\frac{1003}{3949}, -\frac{1239}{3949}, \frac{885}{3949}, \frac{2006}{3949}, -\frac{118}{3949}, -\frac{236}{3949}, \frac{1888}{3949}, -\frac{1475}{3949}, \frac{767}{3949})$ $+ \frac{354}{3949}\sqrt{183e^4} \otimes e_8$	{235789, 289}
942:61	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{77e^{12}}, \frac{1}{23}\sqrt{165e^{13}} + \frac{3}{23}\sqrt{11e^{45}}, \frac{1}{23}\sqrt{165e^{26}},$ $\frac{3}{23}\sqrt{11e^{16}} + \frac{1}{23}\sqrt{110e^{24}} + \frac{1}{23}\sqrt{66e^{35}}$	$(-\frac{3}{23}, \frac{7}{23}, -\frac{1}{23}, -\frac{6}{23}, \frac{2}{23}, \frac{4}{23}, -\frac{4}{23}, \frac{11}{23}, \frac{1}{23})$ $+ \frac{1}{23}\sqrt{429e^2} \otimes e_7$	{146789, 2456}
942:62	$0, 0, 0, 0, 0, \frac{26}{327}e^{12}, \frac{13}{327}\sqrt{106e^{14}} + \frac{13}{109}\sqrt{10e^{35}},$ $\frac{26}{327}\sqrt{53e^{13}} + \frac{13}{327}\sqrt{202e^{26}}, \frac{26}{327}\sqrt{41e^{16}} + \frac{13}{327}\sqrt{278e^{45}}$	$(\frac{26}{109}, -\frac{52}{327}, -\frac{104}{327}, -\frac{13}{109}, \frac{143}{327}, \frac{26}{327}, \frac{13}{109}, -\frac{26}{327}, \frac{104}{327})$ $+ \frac{52}{327}\sqrt{35e^5} \otimes e_8$	{123569, 3678}
942:62	$0, 0, 0, 0, 0, \frac{4}{4583}\sqrt{177e^{12}}, \frac{1}{4583}\sqrt{4038e^{14}} + \frac{1}{4583}\sqrt{4530e^{35}},$ $\frac{4}{4583}\sqrt{309e^{13}} + \frac{1}{4583}\sqrt{3282e^{26}}, \frac{2}{4583}\sqrt{1406e^{16}} + \frac{3}{4583}\sqrt{566e^{45}}$	$(-\frac{20}{4583}, \frac{18}{4583}, \frac{36}{4583}, \frac{17}{4583}, -\frac{39}{4583}, -\frac{2}{4583}, -\frac{3}{4583}, \frac{16}{4583}, -\frac{22}{4583})$ $+ \frac{2}{4583}\sqrt{2170e^4} \otimes e_8$	{123469, 368}
942:62	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{11e^{12}}, \frac{1}{13}\sqrt{7e^{14}} + \frac{1}{13}\sqrt{13e^{35}},$ $\frac{1}{13}\sqrt{14e^{13}} + \frac{1}{13}\sqrt{13e^{26}}, \frac{1}{13}e^{16} + \frac{1}{13}\sqrt{6e^{45}}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, \frac{1}{13}, -\frac{2}{13}, 0, 0, \frac{1}{13}, -\frac{1}{13})$ $+ \frac{1}{13}\sqrt{23e^2} \otimes e_7$	{1234589, 347}
942:62	$0, 0, 0, 0, 0, \frac{55}{1033}\sqrt{30e^{12}}, \frac{55}{1033}\sqrt{146e^{14}} + \frac{22}{1033}\sqrt{710e^{35}},$ $\frac{11}{1033}\sqrt{2870e^{13}} + \frac{11}{1033}\sqrt{1590e^{26}}, \frac{11}{1033}\sqrt{3370e^{16}} + \frac{11}{1033}\sqrt{2590e^{45}}$	$(-\frac{187}{1033}, \frac{231}{1033}, \frac{462}{1033}, \frac{253}{1033}, -\frac{396}{1033}, \frac{44}{1033}, \frac{66}{1033}, \frac{275}{1033}, -\frac{143}{1033})$ $+ \frac{22}{1033}\sqrt{2215e^3} \otimes e_9$	{3458, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:63	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{6}e^{12}, \frac{14}{485}\sqrt{138}e^{14} + \frac{14}{485}\sqrt{422}e^{35},$ $\frac{14}{485}\sqrt{114}e^{16} - \frac{14}{485}\sqrt{398}e^{23}, \frac{42}{485}\sqrt{46}e^{26} + \frac{42}{485}\sqrt{46}e^{45}$	$(\frac{28}{97}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, -\frac{126}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402}e^3 \otimes e_9$	{23456, 2367, 3458, 378, 23456, 2367, 3458, 378}
942:63	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{6}e^{12}, \frac{14}{485}\sqrt{138}e^{14} + \frac{14}{485}\sqrt{422}e^{35},$ $\frac{14}{485}\sqrt{114}e^{16} + \frac{14}{485}\sqrt{398}e^{23}, \frac{42}{485}\sqrt{46}e^{26} + \frac{42}{485}\sqrt{46}e^{45}$	$(\frac{28}{97}, -\frac{126}{485}, \frac{56}{97}, \frac{14}{485}, -\frac{126}{485}, \frac{14}{485}, \frac{154}{485}, \frac{154}{485}, -\frac{112}{485})$ $+ \frac{28}{485}\sqrt{402}e^3 \otimes e_9$	{23456, 2367, 3458, 378, 23456, 2367, 3458, 378}
942:63	$0, 0, 0, 0, 0, \frac{72}{413}\sqrt{2}e^{12}, \frac{4}{413}\sqrt{758}e^{14} + \frac{4}{413}\sqrt{930}e^{35},$ $\frac{4}{413}\sqrt{110}e^{16} - \frac{12}{413}\sqrt{142}e^{23}, \frac{4}{413}\sqrt{714}e^{26} + \frac{12}{413}\sqrt{94}e^{45}$	$(-\frac{32}{413}, \frac{44}{413}, -\frac{64}{413}, \frac{12}{413}, \frac{44}{413}, \frac{12}{413}, -\frac{20}{413}, -\frac{20}{413}, \frac{8}{59})$ $+ \frac{8}{413}\sqrt{390}e^4 \otimes e_8$	{123469, 135789, 23457, 368, 123469, 135789, 23457, 368}
942:63	$0, 0, 0, 0, 0, \frac{72}{413}\sqrt{2}e^{12}, \frac{4}{413}\sqrt{758}e^{14} + \frac{4}{413}\sqrt{930}e^{35},$ $\frac{4}{413}\sqrt{110}e^{16} + \frac{12}{413}\sqrt{142}e^{23}, \frac{4}{413}\sqrt{714}e^{26} + \frac{12}{413}\sqrt{94}e^{45}$	$(-\frac{32}{413}, \frac{44}{413}, -\frac{64}{413}, \frac{12}{413}, \frac{44}{413}, \frac{12}{413}, -\frac{20}{413}, -\frac{20}{413}, \frac{8}{59})$ $+ \frac{8}{413}\sqrt{390}e^4 \otimes e_8$	{123469, 135789, 23457, 368, 123469, 135789, 23457, 368}
942:63	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{8}{29}\sqrt{3}e^{14} + \frac{8}{29}\sqrt{2}e^{35},$ $\frac{12}{29}e^{16} - \frac{2}{29}\sqrt{14}e^{23}, \frac{4}{29}\sqrt{15}e^{26} + \frac{2}{29}\sqrt{42}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^2 \otimes e_7$	{123459, 136789, 2356, 3478, 123459, 136789, 2356, 3478}
942:63	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{8}{29}\sqrt{3}e^{14} + \frac{8}{29}\sqrt{2}e^{35},$ $\frac{12}{29}e^{16} + \frac{2}{29}\sqrt{14}e^{23}, \frac{4}{29}\sqrt{15}e^{26} + \frac{2}{29}\sqrt{42}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^2 \otimes e_7$	{123459, 136789, 2356, 3478, 123459, 136789, 2356, 3478}
942:63	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{6}e^{14} + \frac{8}{29}\sqrt{2}e^{35},$ $\frac{2}{29}\sqrt{66}e^{16} - \frac{2}{29}\sqrt{14}e^{23}, \frac{2}{29}\sqrt{42}e^{26} + \frac{2}{29}\sqrt{15}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^5 \otimes e_8$	{128, 14567, 24689, 579, 128, 14567, 24689, 579}
942:63	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{6}e^{14} + \frac{8}{29}\sqrt{2}e^{35},$ $\frac{2}{29}\sqrt{66}e^{16} + \frac{2}{29}\sqrt{14}e^{23}, \frac{2}{29}\sqrt{42}e^{26} + \frac{2}{29}\sqrt{15}e^{45}$	$(-\frac{4}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{102}e^5 \otimes e_8$	{128, 14567, 24689, 579, 128, 14567, 24689, 579}
942:64	$0, 0, 0, 0, 0, \frac{8}{283}\sqrt{510}e^{12}, \frac{2}{283}\sqrt{2805}e^{13}, \frac{2}{283}\sqrt{9095}e^{16} + \frac{2}{283}\sqrt{12835}e^{24},$ $\frac{20}{283}\sqrt{119}e^{15} + \frac{2}{283}\sqrt{2805}e^{26}$	$(\frac{66}{283}, -\frac{52}{283}, \frac{3}{283}, \frac{132}{283}, -\frac{104}{283}, \frac{14}{283}, \frac{69}{283}, \frac{80}{283}, -\frac{38}{283})$ $+ \frac{2}{283}\sqrt{20995}e^4 \otimes e_9$	{235789, 2589, 35679, 569}
942:64	$0, 0, 0, 0, 0, \frac{12}{2039}\sqrt{9545}e^{12}, \frac{12}{2039}\sqrt{16951}e^{13},$ $\frac{84}{2039}\sqrt{115}e^{16} + \frac{24}{2039}\sqrt{4715}e^{24}, \frac{12}{2039}\sqrt{46}e^{15} + \frac{12}{2039}\sqrt{5773}e^{26}$	$(-\frac{255}{2039}, \frac{156}{2039}, \frac{1302}{2039}, -\frac{510}{2039}, \frac{312}{2039}, -\frac{99}{2039}, \frac{1047}{2039}, -\frac{354}{2039}, \frac{57}{2039})$ $+ \frac{12}{2039}\sqrt{39767}e^3 \otimes e_8$	{1234569, 145789, 23457, 4568}
942:64	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{12835}e^{12}, \frac{2}{283}\sqrt{2805}e^{13}, \frac{20}{283}\sqrt{119}e^{16} + \frac{8}{283}\sqrt{510}e^{24},$ $\frac{2}{283}\sqrt{9095}e^{15} + \frac{2}{283}\sqrt{2805}e^{26}$	$(\frac{66}{283}, -\frac{52}{283}, \frac{3}{283}, \frac{132}{283}, -\frac{104}{283}, \frac{14}{283}, \frac{69}{283}, \frac{80}{283}, -\frac{38}{283})$ $+ \frac{2}{283}\sqrt{20995}e^1 \otimes e_5$	{2345678, 24568, 3457, 45}
942:64	$0, 0, 0, 0, 0, \frac{3}{65}\sqrt{14}e^{12}, \frac{12}{65}\sqrt{2}e^{13}, \frac{9}{65}\sqrt{5}e^{16} + \frac{3}{65}\sqrt{14}e^{24},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{12}{65}\sqrt{2}e^{26}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{65}, -\frac{3}{65}, \frac{12}{65}, \frac{9}{130}, -\frac{12}{65}, \frac{3}{65}, \frac{21}{130})$ $+ \frac{3}{65}\sqrt{61}e^1 \otimes e_3 + \frac{3}{65}\sqrt{61}e^5 \otimes e_8$	{156, 359}
942:64	$0, 0, 0, 0, 0, \frac{23}{5725}\sqrt{4318}e^{12}, \frac{46}{5725}\sqrt{698}e^{13},$ $\frac{23}{5725}\sqrt{4334}e^{16} + \frac{46}{5725}\sqrt{1271}e^{24}, \frac{23}{5725}\sqrt{5754}e^{15} + \frac{92}{5725}\sqrt{3}e^{26}$	$(\frac{391}{5725}, -\frac{69}{5725}, -\frac{1058}{5725}, \frac{782}{5725}, -\frac{138}{5725}, \frac{322}{5725}, -\frac{667}{5725}, \frac{713}{5725}, \frac{253}{5725})$ $+ \frac{1127}{5725}\sqrt{2}e^5 \otimes e_7 + \frac{46}{5725}\sqrt{1493}e^4 \otimes e_9$	{2589, 569}
942:64	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{3}e^{12}, \frac{1}{15}\sqrt{39}e^{13}, \frac{1}{15}\sqrt{15}e^{16} + \frac{1}{15}\sqrt{57}e^{24},$ $\frac{2}{15}\sqrt{3}e^{15} + \frac{1}{15}\sqrt{21}e^{26}$	$(-\frac{1}{10}, \frac{1}{5}, -\frac{1}{10}, -\frac{1}{5}, \frac{2}{5}, \frac{1}{10}, -\frac{1}{5}, 0, \frac{3}{10})$ $+ \frac{1}{5}\sqrt{7}e^5 \otimes e_8 + \frac{4}{15}\sqrt{6}e^2 \otimes e_7$	{146789, 3478}
942:64	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{3}e^{12}, \frac{12}{65}\sqrt{2}e^{13}, \frac{9}{65}\sqrt{5}e^{16} + \frac{3}{65}\sqrt{47}e^{24},$ $\frac{12}{65}e^{15} + \frac{3}{65}\sqrt{29}e^{26}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{130}, -\frac{3}{65}, \frac{12}{65}, \frac{9}{130}, -\frac{12}{65}, \frac{3}{65}, \frac{21}{130})$ $+ \frac{3}{65}\sqrt{61}e^1 \otimes e_3 + \frac{3}{65}\sqrt{61}e^2 \otimes e_4$	{14569, 345}
942:64	$0, 0, 0, 0, 0, \frac{59}{253}\sqrt{6}e^{12}, \frac{1}{253}\sqrt{38586}e^{13}, \frac{1}{253}\sqrt{30090}e^{16} + \frac{2}{253}\sqrt{3009}e^{24},$ $\frac{2}{253}\sqrt{6195}e^{15} + \frac{6}{253}\sqrt{767}e^{26}$	$(\frac{1}{253}, -\frac{17}{253}, \frac{144}{253}, \frac{2}{253}, -\frac{34}{253}, -\frac{16}{253}, \frac{145}{253}, -\frac{15}{253}, -\frac{3}{23})$ $+ \frac{1}{253}\sqrt{76818}e^3 \otimes e_9$	{123568, 135, 2589, 569}
942:64	$0, 0, 0, 0, 0, \frac{108}{1685}\sqrt{14}e^{12}, \frac{27}{1685}\sqrt{398}e^{13},$ $\frac{27}{1685}\sqrt{214}e^{16} + \frac{162}{1685}\sqrt{13}e^{24}, \frac{54}{337}\sqrt{11}e^{15} + \frac{27}{1685}\sqrt{30}e^{26}$	$(\frac{351}{1685}, -\frac{189}{1685}, -\frac{378}{1685}, \frac{702}{1685}, -\frac{378}{1685}, \frac{162}{1685}, -\frac{27}{1685}, \frac{513}{1685}, -\frac{27}{1685})$ $+ \frac{27}{1685}\sqrt{1498}e^1 \otimes e_3 + \frac{54}{1685}\sqrt{382}e^4 \otimes e_9$	{1289, 169}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:64	$0, 0, 0, 0, 0, \frac{4}{145}\sqrt{11}e^{12}, \frac{1}{145}e^{13}, \frac{1}{435}\sqrt{879}e^{16} + \frac{2}{435}\sqrt{267}e^{24},$ $\frac{1}{435}\sqrt{1065}e^{15} + \frac{2}{435}\sqrt{219}e^{26}$	$(-\frac{1}{145}, -\frac{1}{145}, \frac{8}{145}, -\frac{2}{145}, -\frac{2}{145}, -\frac{2}{145}, \frac{7}{145}, -\frac{3}{145}, -\frac{3}{145})$ $+ \frac{1}{435}\sqrt{1239}e^2 \otimes e_4 + \frac{2}{435}\sqrt{309}e^1 \otimes e_5$	{345, 457}
942:64	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{22}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{6}{25}e^{16} + \frac{8}{25}e^{24},$ $\frac{2}{25}\sqrt{7}e^{15} + \frac{4}{25}\sqrt{11}e^{26}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{9}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{1}{25})$ $+ \frac{14}{25}e^2 \otimes e_4 + \frac{2}{25}\sqrt{42}e^3 \otimes e_9$	{12579, 23567}
942:64	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{57}e^{12}, \frac{1}{15}\sqrt{21}e^{13}, \frac{2}{15}\sqrt{3}e^{16} + \frac{1}{15}\sqrt{3}e^{24},$ $\frac{1}{15}\sqrt{15}e^{15} + \frac{1}{15}\sqrt{39}e^{26}$	$(\frac{1}{20}, \frac{1}{10}, -\frac{7}{20}, \frac{1}{10}, \frac{1}{5}, \frac{3}{20}, -\frac{3}{10}, \frac{1}{5}, \frac{1}{4})$ $+ \frac{1}{5}\sqrt{7}e^1 \otimes e_3 + \frac{4}{15}\sqrt{6}e^2 \otimes e_7$	{15679, 357}
942:64	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{4773}e^{12}, \frac{3}{121}\sqrt{185}e^{13}, \frac{1}{121}\sqrt{2553}e^{16} + \frac{1}{121}\sqrt{8769}e^{24},$ $\frac{6}{121}\sqrt{259}e^{15} + \frac{1}{121}\sqrt{6179}e^{26}$	$(-\frac{45}{242}, \frac{29}{121}, \frac{51}{242}, -\frac{45}{121}, \frac{58}{121}, \frac{13}{242}, \frac{3}{121}, -\frac{16}{121}, \frac{71}{242})$ $+ \frac{1}{121}\sqrt{15799}e^5 \otimes e_8$	{134789, 1489, 3468, 4678}
942:64	$0, 0, 0, 0, 0, \frac{2}{225}\sqrt{6}e^{12}, \frac{1}{225}\sqrt{1182}e^{13}, \frac{4}{225}\sqrt{51}e^{16} + \frac{1}{225}\sqrt{462}e^{24},$ $\frac{1}{225}\sqrt{6}e^{15} + \frac{2}{225}\sqrt{255}e^{26}$	$(-\frac{7}{150}, \frac{1}{25}, \frac{3}{50}, -\frac{7}{75}, \frac{2}{25}, -\frac{1}{150}, \frac{1}{75}, -\frac{4}{75}, \frac{1}{30})$ $+ \frac{1}{25}\sqrt{14}e^3 \otimes e_9 + \frac{2}{225}\sqrt{339}e^2 \otimes e_7$	{12368, 289}
942:64	$0, 0, 0, 0, 0, \frac{1}{201}\sqrt{546}e^{12}, \frac{28}{201}\sqrt{3}e^{13}, \frac{8}{201}\sqrt{42}e^{16} + \frac{2}{201}\sqrt{777}e^{24},$ $\frac{1}{201}\sqrt{966}e^{15} + \frac{28}{201}\sqrt{3}e^{26}$	$(\frac{5}{67}, -\frac{1}{67}, \frac{13}{67}, \frac{10}{67}, -\frac{2}{67}, \frac{4}{67}, -\frac{8}{67}, \frac{9}{67}, \frac{3}{67})$ $+ \frac{1}{201}\sqrt{4074}e^2 \otimes e_7 + \frac{1}{67}\sqrt{406}e^4 \otimes e_9$	{2589, 35679}
942:64	$0, 0, 0, 0, 0, \frac{31}{2285}\sqrt{874}e^{12}, \frac{31}{2285}\sqrt{1182}e^{13},$ $\frac{31}{2285}\sqrt{566}e^{16} + \frac{124}{2285}\sqrt{39}e^{24}, \frac{124}{2285}\sqrt{26}e^{15} + \frac{62}{2285}\sqrt{231}e^{26}$	$(\frac{279}{2285}, -\frac{341}{2285}, \frac{558}{2285}, \frac{558}{2285}, -\frac{682}{2285}, -\frac{62}{2285}, \frac{837}{2285}, \frac{217}{2285}, -\frac{403}{2285})$ $+ \frac{124}{2285}\sqrt{142}e^1 \otimes e_5 + \frac{31}{2285}\sqrt{1806}e^3 \otimes e_9$	{2345678, 3457}
942:64	$0, 0, 0, 0, 0, \frac{54}{1685}\sqrt{61}e^{16} + \frac{27}{1685}\sqrt{438}e^{24}, \frac{54}{1685}\sqrt{107}e^{15} + \frac{27}{1685}\sqrt{30}e^{26}$	$(\frac{351}{1685}, -\frac{189}{1685}, -\frac{378}{1685}, \frac{702}{1685}, -\frac{378}{1685}, \frac{162}{1685}, -\frac{27}{1685}, \frac{513}{1685}, -\frac{27}{1685})$ $+ \frac{27}{1685}\sqrt{1498}e^4 \otimes e_7 + \frac{54}{1685}\sqrt{382}e^1 \otimes e_5$	{235678, 357}
942:64	$0, 0, 0, 0, 0, \frac{33}{4325}\sqrt{1798}e^{12}, \frac{462}{4325}\sqrt{10}e^{13},$ $\frac{66}{4325}\sqrt{739}e^{16} + \frac{33}{4325}\sqrt{178}e^{24}, \frac{264}{4325}\sqrt{31}e^{15} + \frac{132}{4325}e^{26}$	$(\frac{231}{4325}, -\frac{429}{4325}, \frac{1122}{4325}, \frac{462}{4325}, -\frac{858}{4325}, -\frac{198}{4325}, \frac{1353}{4325}, \frac{33}{4325}, -\frac{627}{4325})$ $+ \frac{33}{4325}\sqrt{3458}e^3 \otimes e_8 + \frac{99}{4325}\sqrt{494}e^1 \otimes e_5$	{12478, 1346}
942:64	$0, 0, 0, 0, 0, \frac{1}{494}\sqrt{140070}e^{12}, \frac{1}{247}\sqrt{42195}e^{13},$ $\frac{145}{494}\sqrt{6}e^{16} + \frac{1}{494}\sqrt{123105}e^{24}, \frac{1}{247}\sqrt{47415}e^{15} + \frac{6}{247}\sqrt{290}e^{26}$	$(-\frac{71}{988}, \frac{69}{247}, -\frac{1}{4}, -\frac{71}{494}, \frac{138}{247}, \frac{205}{988}, -\frac{159}{494}, \frac{67}{494}, \frac{37}{76})$ $+ \frac{11}{494}\sqrt{3045}e^5 \otimes e_7$	{126789, 179, 2378, 367}
942:64	$0, 0, 0, 0, 0, \frac{3}{65}\sqrt{47}e^{12}, \frac{3}{65}\sqrt{29}e^{13}, \frac{12}{65}e^{16} + \frac{3}{13}\sqrt{3}e^{24},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{12}{65}\sqrt{2}e^{26}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{130}, -\frac{3}{65}, \frac{12}{65}, \frac{9}{130}, -\frac{12}{65}, \frac{3}{65}, \frac{21}{130})$ $+ \frac{3}{65}\sqrt{61}e^4 \otimes e_7 + \frac{3}{65}\sqrt{61}e^5 \otimes e_8$	{126789, 2378}
942:64	$0, 0, 0, 0, 0, \frac{11}{1605}\sqrt{1030}e^{12}, \frac{11}{1605}\sqrt{1390}e^{13},$ $\frac{11}{1605}\sqrt{1146}e^{16} + \frac{44}{1605}\sqrt{42}e^{24}, \frac{88}{1605}\sqrt{19}e^{15} + \frac{22}{1605}\sqrt{87}e^{26}$	$(-\frac{121}{1605}, \frac{33}{535}, \frac{66}{535}, -\frac{242}{1605}, \frac{66}{535}, -\frac{22}{1605}, \frac{77}{1605}, -\frac{143}{1605}, \frac{77}{1605})$ $+ \frac{11}{1605}\sqrt{1598}e^3 \otimes e_9 - \frac{44}{1605}\sqrt{89}e^5 \otimes e_7$	{123568, 135, 2589, 569}
942:64	$0, 0, 0, 0, 0, \frac{11}{1605}\sqrt{1030}e^{12}, \frac{11}{1605}\sqrt{1390}e^{13},$ $\frac{11}{1605}\sqrt{1146}e^{16} + \frac{44}{1605}\sqrt{42}e^{24}, \frac{88}{1605}\sqrt{19}e^{15} + \frac{22}{1605}\sqrt{87}e^{26}$	$(-\frac{121}{1605}, \frac{33}{535}, \frac{66}{535}, -\frac{242}{1605}, \frac{66}{535}, -\frac{22}{1605}, \frac{77}{1605}, -\frac{143}{1605}, \frac{77}{1605})$ $+ \frac{11}{1605}\sqrt{1598}e^3 \otimes e_9 + \frac{44}{1605}\sqrt{89}e^5 \otimes e_7$	{123568, 135, 2589, 569}
942:64	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{7030}e^{12}, \frac{2}{121}\sqrt{2405}e^{13}, \frac{5}{121}\sqrt{259}e^{16} + \frac{1}{121}\sqrt{11026}e^{24},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{3}{121}\sqrt{185}e^{26}$	$(\frac{93}{484}, -\frac{3}{242}, -\frac{203}{484}, \frac{93}{242}, -\frac{3}{121}, \frac{87}{484}, -\frac{5}{22}, \frac{45}{121}, \frac{81}{484})$ $+ \frac{1}{121}\sqrt{15799}e^4 \otimes e_7$	{126789, 179, 2378, 367}
942:64	$0, 0, 0, 0, 0, \frac{56}{85}e^{12}, \frac{7}{85}\sqrt{5}e^{13}, \frac{7}{85}\sqrt{5}e^{16} + \frac{7}{85}\sqrt{38}e^{24},$ $\frac{21}{85}\sqrt{3}e^{15} + \frac{56}{85}e^{26}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, -\frac{28}{85}, \frac{42}{85}, \frac{7}{85}, -\frac{7}{85}, -\frac{7}{85}, \frac{28}{85})$ $+ \frac{7}{85}\sqrt{113}e^2 \otimes e_4 + \frac{7}{85}\sqrt{38}e^5 \otimes e_7$	{134569, 45}
942:64	$0, 0, 0, 0, 0, \frac{8}{99}\sqrt{30}e^{12}, \frac{4}{99}\sqrt{246}e^{13}, \frac{8}{99}\sqrt{33}e^{16} + \frac{8}{99}\sqrt{30}e^{24},$ $\frac{8}{99}\sqrt{33}e^{15} + \frac{4}{99}\sqrt{246}e^{26}$	$(-\frac{1}{33}, \frac{2}{11}, -\frac{3}{11}, -\frac{2}{33}, \frac{4}{11}, \frac{5}{33}, -\frac{10}{33}, \frac{4}{33}, \frac{1}{3})$ $+ \frac{4}{99}\sqrt{510}e^2 \otimes e_7$	{123459, 1456789, 2456, 34578}
942:64	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{6}{25}e^{16} + \frac{2}{25}\sqrt{33}e^{24},$ $\frac{2}{25}\sqrt{42}e^{15} + \frac{2}{25}\sqrt{5}e^{26}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{9}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{1}{25})$ $+ \frac{14}{25}e^5 \otimes e_8 + \frac{2}{25}\sqrt{42}e^3 \otimes e_9$	{126789, 2378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:64	$0, 0, 0, 0, 0, \frac{3}{145}\sqrt{11}e^{12}, \frac{1}{145}e^{13}, \frac{1}{435}\sqrt{357}e^{16} + \frac{1}{435}\sqrt{1407}e^{24},$ $\frac{1}{435}\sqrt{1410}e^{15} + \frac{11}{435}\sqrt{3}e^{26}$	$(-\frac{1}{145}, -\frac{1}{145}, \frac{8}{145}, -\frac{2}{145}, -\frac{2}{145}, -\frac{2}{145}, \frac{7}{145}, -\frac{3}{145}, -\frac{3}{145})$ $+ \frac{1}{435}\sqrt{1239}e^5 \otimes e_8 + \frac{2}{435}\sqrt{309}e^4 \otimes e_9$	{1236789, 12689}
942:64	$0, 0, 0, 0, 0, \frac{66}{4325}\sqrt{662}e^{12}, \frac{462}{4325}\sqrt{10}e^{13},$ $\frac{33}{4325}\sqrt{1490}e^{16} + \frac{66}{4325}\sqrt{1067}e^{24}, \frac{33}{4325}\sqrt{2462}e^{15} + \frac{132}{4325}e^{26}$	$(\frac{231}{4325}, -\frac{429}{4325}, \frac{1122}{4325}, \frac{462}{4325}, -\frac{858}{4325}, -\frac{198}{4325}, \frac{1353}{4325}, \frac{33}{4325}, -\frac{627}{4325})$ $+ \frac{33}{4325}\sqrt{3458}e^3 \otimes e_8 + \frac{99}{4325}\sqrt{494}e^4 \otimes e_9$	{126789, 139}
942:64	$0, 0, 0, 0, 0, \frac{34}{605}\sqrt{57}e^{12}, \frac{119}{605}\sqrt{2}e^{13}, \frac{51}{605}\sqrt{30}e^{16} + \frac{34}{605}\sqrt{21}e^{24},$ $\frac{34}{605}\sqrt{78}e^{15} + \frac{51}{605}\sqrt{14}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{605}, \frac{153}{605}, \frac{153}{605})$ $- \frac{102}{605}\sqrt{11}e^5 \otimes e_7 + \frac{17}{605}\sqrt{694}e^1 \otimes e_3$	{12458, 1456, 2345689, 3459}
942:64	$0, 0, 0, 0, 0, \frac{34}{605}\sqrt{57}e^{12}, \frac{119}{605}\sqrt{2}e^{13}, \frac{51}{605}\sqrt{30}e^{16} + \frac{34}{605}\sqrt{21}e^{24},$ $\frac{34}{605}\sqrt{78}e^{15} + \frac{51}{605}\sqrt{14}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{605}, \frac{153}{605}, \frac{153}{605})$ $+ \frac{102}{605}\sqrt{11}e^5 \otimes e_7 + \frac{17}{605}\sqrt{694}e^1 \otimes e_3$	{12458, 1456, 2345689, 3459}
942:64	$0, 0, 0, 0, 0, \frac{6}{85}\sqrt{70}e^{12}, \frac{3}{85}\sqrt{55}e^{13}, \frac{3}{85}\sqrt{115}e^{16} + \frac{6}{17}e^{24},$ $\frac{3}{85}\sqrt{205}e^{15} + \frac{6}{85}\sqrt{65}e^{26}$	$(-\frac{3}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{6}{17}, \frac{6}{17}, 0, \frac{3}{17}, -\frac{3}{17}, \frac{3}{17})$ $+ \frac{6}{85}\sqrt{65}e^3 \otimes e_8 + \frac{9}{85}\sqrt{55}e^2 \otimes e_4$	{134569, 3457}
942:64	$0, 0, 0, 0, 0, \frac{13}{1775}\sqrt{3162}e^{12}, \frac{26}{1775}\sqrt{1038}e^{13},$ $\frac{169}{1775}\sqrt{6}e^{16} + \frac{26}{1775}\sqrt{957}e^{24}, \frac{13}{1775}\sqrt{2370}e^{15} + \frac{156}{1775}\sqrt{10}e^{26}$	$(-\frac{247}{1775}, \frac{273}{1775}, \frac{286}{1775}, -\frac{494}{1775}, \frac{546}{1775}, \frac{26}{1775}, \frac{39}{1775}, -\frac{221}{1775}, \frac{299}{1775})$ $+ \frac{13}{1775}\sqrt{4782}e^5 \otimes e_7 + \frac{78}{1775}\sqrt{139}e^3 \otimes e_8$	{126789, 367}
942:64	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{8769}e^{12}, \frac{1}{121}\sqrt{6179}e^{13}, \frac{6}{121}\sqrt{259}e^{16} + \frac{1}{121}\sqrt{4773}e^{24},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{3}{121}\sqrt{185}e^{26}$	$(\frac{93}{484}, -\frac{3}{242}, -\frac{203}{484}, \frac{93}{242}, -\frac{3}{121}, \frac{87}{484}, -\frac{5}{22}, \frac{45}{121}, \frac{81}{484})$ $+ \frac{1}{121}\sqrt{15799}e^1 \otimes e_3$	{12458, 1456, 2345689, 3459}
942:64	$0, 0, 0, 0, 0, \frac{18}{535}\sqrt{6}e^{12}, \frac{108}{535}\sqrt{3}e^{13}, \frac{36}{535}\sqrt{6}e^{16} + \frac{9}{535}\sqrt{314}e^{24},$ $\frac{9}{535}\sqrt{154}e^{15} + \frac{18}{107}\sqrt{2}e^{26}$	$(-\frac{54}{535}, \frac{63}{535}, \frac{36}{535}, -\frac{108}{535}, \frac{126}{535}, \frac{9}{535}, -\frac{18}{535}, -\frac{9}{107}, \frac{72}{535})$ $+ \frac{9}{535}\sqrt{406}e^3 \otimes e_8 + \frac{9}{535}\sqrt{566}e^2 \otimes e_7$	{123459, 1456789}
942:64	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{11026}e^{12}, \frac{3}{121}\sqrt{185}e^{13}, \frac{1}{121}\sqrt{2553}e^{16} + \frac{1}{121}\sqrt{7030}e^{24},$ $\frac{5}{121}\sqrt{259}e^{15} + \frac{2}{121}\sqrt{2405}e^{26}$	$(-\frac{45}{242}, \frac{29}{121}, \frac{51}{242}, -\frac{45}{121}, \frac{58}{121}, \frac{13}{242}, \frac{3}{121}, -\frac{16}{121}, \frac{71}{242})$ $+ \frac{1}{121}\sqrt{15799}e^2 \otimes e_4$	{1345679, 14569, 345, 457}
942:64	$0, 0, 0, 0, 0, \frac{3}{6245}\sqrt{4370}e^{12}, \frac{6}{6245}\sqrt{1495}e^{13},$ $\frac{6}{6245}\sqrt{497}e^{16} + \frac{3}{6245}\sqrt{6854}e^{24}, \frac{6}{6245}\sqrt{227}e^{15} + \frac{3}{6245}\sqrt{1714}e^{26}$	$(\frac{51}{6245}, -\frac{69}{6245}, \frac{42}{6245}, \frac{102}{6245}, -\frac{138}{6245}, -\frac{18}{6245}, \frac{93}{6245}, \frac{33}{6245}, -\frac{87}{6245})$ $+ \frac{6}{6245}\sqrt{1358}e^3 \otimes e_8 + \frac{9}{6245}\sqrt{714}e^4 \otimes e_7$	{126789, 367}
942:64	$0, 0, 0, 0, 0, \frac{2}{201}\sqrt{777}e^{12}, \frac{28}{201}\sqrt{3}e^{13}, \frac{1}{201}\sqrt{966}e^{16} + \frac{1}{201}\sqrt{546}e^{24},$ $\frac{8}{201}\sqrt{42}e^{15} + \frac{28}{201}\sqrt{3}e^{26}$	$(\frac{5}{67}, -\frac{1}{67}, -\frac{13}{67}, \frac{10}{67}, -\frac{2}{67}, \frac{4}{67}, -\frac{8}{67}, \frac{9}{67}, \frac{3}{67})$ $+ \frac{1}{201}\sqrt{4074}e^2 \otimes e_7 + \frac{1}{67}\sqrt{406}e^1 \otimes e_5$	{24568, 3457}
942:65	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{70}e^{13} + \frac{1}{10}\sqrt{70}e^{24},$ $\frac{1}{10}\sqrt{10}e^{16} + \frac{1}{5}\sqrt{10}e^{23}, \frac{1}{5}\sqrt{10}e^{14} + \frac{1}{10}\sqrt{10}e^{26}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{170}e^5 \otimes e_7$	{1267, 5689}
942:65	$0, 0, 0, 0, 0, \frac{18}{35}\sqrt{2}e^{12}, \frac{6}{35}\sqrt{10}e^{13} + \frac{3}{35}\sqrt{19}e^{24},$ $\frac{24}{35}e^{16} + \frac{3}{35}\sqrt{43}e^{23}, \frac{12}{35}e^{14} + \frac{3}{35}\sqrt{5}e^{26}$	$(\frac{3}{35}, \frac{3}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{24}{35}, \frac{6}{35}, \frac{9}{35}, \frac{9}{35}, \frac{9}{35})$ $+ \frac{3}{35}\sqrt{177}e^1 \otimes e_5$	{12389, 357}
942:65	$0, 0, 0, 0, 0, \frac{19}{1167}\sqrt{158}e^{12}, \frac{38}{1167}\sqrt{645}e^{13} + \frac{38}{1167}\sqrt{366}e^{24},$ $\frac{19}{1167}\sqrt{1938}e^{16} + \frac{19}{1167}\sqrt{3054}e^{23}, \frac{38}{1167}\sqrt{258}e^{14} + \frac{38}{1167}\sqrt{21}e^{26}$	$(\frac{38}{389}, \frac{38}{389}, \frac{76}{389}, \frac{76}{389}, -\frac{285}{389}, \frac{76}{389}, \frac{114}{389}, \frac{114}{389}, \frac{114}{389})$ $+ \frac{19}{389}\sqrt{674}e^3 \otimes e_5$	{1245678, 4569}
942:65	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{246}e^{12}, \frac{1}{365}\sqrt{326}e^{13} + \frac{4}{365}\sqrt{23}e^{24},$ $\frac{3}{365}\sqrt{2}e^{16} + \frac{2}{365}\sqrt{102}e^{23}, \frac{2}{365}\sqrt{102}e^{14} + \frac{2}{365}\sqrt{61}e^{26}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, -\frac{2}{365}, -\frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+ \frac{1}{365}\sqrt{694}e^3 \otimes e_9$	{4569, 469}
942:65	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{30}\sqrt{390}e^{13} + \frac{1}{15}\sqrt{30}e^{24},$ $\frac{1}{3}\sqrt{6}e^{16} + \frac{1}{15}\sqrt{165}e^{23}, \frac{1}{6}\sqrt{6}e^{14} + \frac{1}{15}\sqrt{105}e^{26}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{10}\sqrt{170}e^5 \otimes e_8$	{1235679, 368}
942:66	$0, 0, 0, 0, 0, \frac{20}{59}e^{12}, \frac{30}{59}\sqrt{3}e^{13}, \frac{30}{59}\sqrt{2}e^{16} + \frac{50}{59}e^{34},$ $\frac{10}{59}\sqrt{7}e^{14} + \frac{10}{59}\sqrt{17}e^{26} + \frac{30}{59}\sqrt{2}e^{35}$	$(\frac{10}{59}, -\frac{5}{59}, \frac{25}{59}, -\frac{10}{59}, -\frac{25}{59}, \frac{5}{59}, \frac{35}{59}, \frac{15}{59}, 0)$ $+ \frac{10}{59}\sqrt{51}e^3 \otimes e_5$	{12368, 157}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:66	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{21}{121}\sqrt{11}e^{13}, \frac{84}{121}e^{16} + \frac{14}{121}\sqrt{10}e^{34},$ $\frac{7}{121}\sqrt{67}e^{14} + \frac{56}{121}e^{26} + \frac{84}{121}e^{35}$	$(-\frac{7}{121}, \frac{14}{121}, -\frac{28}{121}, \frac{28}{121}, \frac{49}{121}, \frac{7}{121}, -\frac{35}{121}, 0, \frac{21}{121})$ $+ \frac{7}{121}\sqrt{213}e^5 \otimes e_8$	{23689, 579}
942:66	$0, 0, 0, 0, 0, \frac{34}{1351}\sqrt{483}e^{12}, \frac{68}{1351}\sqrt{231}e^{13},$ $\frac{17}{1351}\sqrt{3354}e^{16} + \frac{17}{1351}\sqrt{2730}e^{34}, \frac{68}{1351}\sqrt{183}e^{14} + \frac{272}{1351}\sqrt{6}e^{26} + \frac{17}{1351}\sqrt{3354}e^{35}$	$(-\frac{85}{1351}, \frac{204}{1351}, -\frac{374}{1351}, \frac{408}{1351}, \frac{697}{1351}, \frac{17}{1351}, -\frac{459}{1351}, \frac{34}{1351}, \frac{323}{1351})$ $+ \frac{17}{1351}\sqrt{7278}e^4 \otimes e_7$	{134, 2489}
942:66	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{7}{121}\sqrt{114}e^{13}, \frac{7}{121}\sqrt{69}e^{16} + \frac{14}{121}\sqrt{10}e^{34},$ $\frac{7}{121}\sqrt{67}e^{14} + \frac{7}{121}\sqrt{149}e^{26} + \frac{7}{121}\sqrt{69}e^{35}$	$(-\frac{7}{121}, \frac{14}{121}, -\frac{28}{121}, \frac{28}{121}, \frac{49}{121}, \frac{7}{121}, -\frac{35}{121}, 0, \frac{21}{121})$ $+ \frac{7}{121}\sqrt{213}e^2 \otimes e_7$	{123459, 146789}
942:67	$0, 0, 0, 0, 0, \frac{6}{115}\sqrt{15}e^{12}, \frac{2}{115}\sqrt{110}e^{13}, \frac{2}{115}\sqrt{1155}e^{26} + \frac{2}{23}\sqrt{39}e^{34},$ $\frac{2}{23}\sqrt{39}e^{16} + \frac{2}{115}\sqrt{210}e^{23} + \frac{2}{115}\sqrt{645}e^{45}$	$(-\frac{1}{23}, \frac{3}{23}, -\frac{2}{23}, \frac{7}{23}, -\frac{6}{23}, \frac{2}{23}, -\frac{3}{23}, \frac{5}{23}, \frac{1}{23})$ $+ \frac{6}{115}\sqrt{170}e^2 \otimes e_7$	{123458, 3579}
942:67	$0, 0, 0, 0, 0, \frac{240}{557}\sqrt{2}e^{12}, \frac{20}{557}\sqrt{519}e^{13}, \frac{60}{557}\sqrt{47}e^{26} + \frac{120}{557}\sqrt{29}e^{34},$ $\frac{20}{557}\sqrt{570}e^{16} + \frac{80}{557}\sqrt{6}e^{23} + \frac{60}{557}\sqrt{47}e^{45}$	$(-\frac{30}{557}, \frac{160}{557}, -\frac{60}{557}, \frac{350}{557}, -\frac{250}{557}, \frac{130}{557}, -\frac{90}{557}, \frac{290}{557}, \frac{100}{557})$ $+ \frac{60}{557}\sqrt{158}e^4 \otimes e_5$	{13467, 358}
942:67	$0, 0, 0, 0, 0, \frac{12}{533}\sqrt{38}e^{12}, \frac{4}{533}\sqrt{1515}e^{13}, \frac{4}{533}\sqrt{903}e^{26} + \frac{4}{533}\sqrt{1110}e^{34},$ $\frac{4}{533}\sqrt{1110}e^{16} + \frac{32}{533}\sqrt{6}e^{23} + \frac{4}{533}\sqrt{1401}e^{45}$	$(\frac{14}{533}, -\frac{24}{533}, \frac{28}{533}, -\frac{62}{533}, \frac{66}{533}, -\frac{10}{533}, \frac{42}{533}, -\frac{34}{533}, \frac{4}{533})$ $+ \frac{12}{533}\sqrt{166}e^5 \otimes e_7$	{123569, 234789}
942:67	$0, 0, 0, 0, 0, \frac{144}{605}\sqrt{2}e^{12}, \frac{16}{605}\sqrt{3}e^{13}, \frac{48}{605}\sqrt{103}e^{26} + \frac{48}{605}\sqrt{6}e^{34},$ $\frac{32}{605}\sqrt{114}e^{16} + \frac{32}{605}\sqrt{141}e^{23} + \frac{48}{605}\sqrt{103}e^{45}$	$(\frac{72}{605}, -\frac{16}{121}, \frac{144}{605}, -\frac{232}{605}, \frac{296}{605}, -\frac{8}{605}, \frac{216}{605}, -\frac{8}{55}, \frac{64}{605})$ $+ \frac{48}{605}\sqrt{170}e^5 \otimes e_8$	{146789, 59}
942:68	$0, 0, 0, 0, 0, \frac{34}{1039}\sqrt{303}e^{12}, \frac{17}{1039}\sqrt{3390}e^{13},$ $\frac{17}{1039}\sqrt{1578}e^{26} + \frac{17}{1039}\sqrt{2490}e^{34}, \frac{17}{1039}\sqrt{2490}e^{16} + \frac{68}{1039}\sqrt{66}e^{24} + \frac{68}{1039}\sqrt{141}e^{35}$	$(\frac{187}{1039}, -\frac{102}{1039}, -\frac{391}{1039}, \frac{374}{1039}, \frac{663}{1039}, \frac{85}{1039}, -\frac{204}{1039}, -\frac{17}{1039}, \frac{272}{1039})$ $+ \frac{68}{1039}\sqrt{339}e^5 \otimes e_7$	{135, 2589}
942:68	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{102}e^{12}, \frac{1}{111}\sqrt{546}e^{13}, \frac{2}{37}\sqrt{10}e^{26} + \frac{2}{111}\sqrt{105}e^{34},$ $\frac{2}{111}\sqrt{105}e^{16} + \frac{1}{111}\sqrt{426}e^{24} + \frac{1}{111}\sqrt{30}e^{35}$	$(\frac{1}{37}, -\frac{1}{37}, -\frac{3}{37}, \frac{2}{37}, \frac{4}{37}, 0, -\frac{2}{37}, -\frac{1}{37}, \frac{1}{37})$ $+ \frac{4}{111}\sqrt{39}e^2 \otimes e_7$	{123569, 289}
942:68	$0, 0, 0, 0, 0, \frac{43}{3325}\sqrt{2018}e^{12}, \frac{129}{3325}\sqrt{238}e^{13},$ $\frac{344}{3325}\sqrt{39}e^{26} + \frac{86}{3325}\sqrt{505}e^{34}, \frac{86}{3325}\sqrt{29}e^{16} + \frac{43}{3325}\sqrt{2974}e^{24} + \frac{43}{3325}\sqrt{3210}e^{35}$	$(\frac{473}{3325}, -\frac{43}{475}, -\frac{43}{133}, \frac{946}{3325}, \frac{344}{665}, \frac{172}{3325}, -\frac{86}{475}, -\frac{129}{3325}, \frac{129}{665})$ $+ \frac{172}{3325}\sqrt{357}e^5 \otimes e_8$	{1468, 345}
942:68	$0, 0, 0, 0, 0, \frac{59}{3229}\sqrt{454}e^{12}, \frac{177}{3229}\sqrt{226}e^{13},$ $\frac{118}{3229}\sqrt{102}e^{26} + \frac{118}{3229}\sqrt{463}e^{34}, \frac{118}{3229}\sqrt{11}e^{16} + \frac{59}{3229}\sqrt{362}e^{24} + \frac{59}{3229}\sqrt{1086}e^{35}$	$(-\frac{295}{3229}, \frac{767}{3229}, \frac{1829}{3229}, -\frac{590}{3229}, -\frac{1652}{3229}, \frac{472}{3229}, \frac{1534}{3229}, \frac{1239}{3229}, \frac{177}{3229})$ $+ \frac{236}{3229}\sqrt{339}e^3 \otimes e_5$	{1245678, 2347}
942:69	$0, 0, 0, 0, 0, \frac{21}{265}\sqrt{53}e^{12}, \frac{7}{265}\sqrt{723}e^{14} + \frac{7}{265}\sqrt{321}e^{23},$ $\frac{7}{265}\sqrt{561}e^{13} + \frac{14}{265}\sqrt{141}e^{26}, \frac{56}{265}\sqrt{15}e^{16} + \frac{14}{265}\sqrt{141}e^{35}$	$(\frac{21}{106}, -\frac{14}{265}, -\frac{28}{265}, -\frac{189}{530}, \frac{119}{265}, \frac{77}{530}, -\frac{42}{265}, \frac{49}{530}, \frac{91}{265})$ $+ \frac{84}{265}\sqrt{10}e^1 \otimes e_4$	{12359, 2345689}
942:69	$0, 0, 0, 0, 0, \frac{15}{281}\sqrt{11}e^{12}, \frac{15}{281}\sqrt{129}e^{14} + \frac{25}{281}\sqrt{39}e^{23},$ $\frac{5}{281}\sqrt{285}e^{13} + \frac{10}{281}\sqrt{282}e^{26}, \frac{60}{281}\sqrt{7}e^{16} + \frac{20}{281}\sqrt{39}e^{35}$	$(-\frac{55}{562}, \frac{20}{281}, \frac{40}{281}, \frac{175}{562}, -\frac{75}{281}, -\frac{15}{562}, \frac{60}{281}, \frac{25}{562}, -\frac{35}{281})$ $+ \frac{30}{281}\sqrt{42}e^4 \otimes e_8$	{1345, 3568}
942:69	$0, 0, 0, 0, 0, \frac{21}{241}\sqrt{43}e^{12}, \frac{7}{241}\sqrt{615}e^{14} + \frac{7}{241}\sqrt{1041}e^{23},$ $\frac{7}{241}\sqrt{813}e^{13} + \frac{14}{241}\sqrt{186}e^{26}, \frac{14}{241}\sqrt{114}e^{16} + \frac{14}{241}\sqrt{186}e^{35}$	$(-\frac{63}{482}, \frac{28}{241}, \frac{56}{241}, \frac{231}{482}, -\frac{91}{241}, -\frac{7}{482}, \frac{84}{241}, \frac{49}{482}, -\frac{35}{241})$ $+ \frac{42}{241}\sqrt{38}e^3 \otimes e_5$	{1245678, 257}
942:69	$0, 0, 0, 0, 0, \frac{6}{115}\sqrt{15}e^{12}, \frac{2}{115}\sqrt{645}e^{14} + \frac{2}{115}\sqrt{1065}e^{23},$ $\frac{2}{115}\sqrt{210}e^{13} + \frac{8}{23}\sqrt{3}e^{26}, \frac{4}{115}\sqrt{255}e^{16} + \frac{8}{23}\sqrt{3}e^{35}$	$(\frac{3}{23}, -\frac{1}{23}, -\frac{2}{23}, -\frac{6}{23}, \frac{7}{23}, \frac{2}{23}, -\frac{3}{23}, \frac{1}{23}, \frac{5}{23})$ $+ \frac{6}{115}\sqrt{170}e^5 \otimes e_8$	{1248, 4579}
942:70	$0, 0, 0, 0, 0, \frac{15}{281}\sqrt{11}e^{12}, \frac{25}{281}\sqrt{39}e^{13} + \frac{15}{281}\sqrt{129}e^{24}, \frac{10}{281}\sqrt{282}e^{16},$ $\frac{5}{281}\sqrt{285}e^{14} + \frac{60}{281}\sqrt{7}e^{26} + \frac{20}{281}\sqrt{39}e^{35}$	$(-\frac{55}{562}, \frac{20}{281}, \frac{175}{562}, \frac{40}{281}, -\frac{75}{281}, -\frac{15}{562}, \frac{60}{281}, -\frac{35}{281}, \frac{25}{562})$ $+ \frac{30}{281}\sqrt{42}e^4 \otimes e_8$	{1589, 3568}
942:70	$0, 0, 0, 0, 0, \frac{240}{533}e^{12}, \frac{360}{533}\sqrt{3}e^{13} + \frac{100}{533}\sqrt{15}e^{24}, \frac{60}{533}\sqrt{47}e^{16},$ $\frac{80}{533}\sqrt{3}e^{14} + \frac{20}{533}\sqrt{462}e^{26} + \frac{60}{533}\sqrt{47}e^{35}$	$(-\frac{80}{533}, \frac{90}{533}, \frac{350}{533}, \frac{180}{533}, -\frac{250}{533}, \frac{10}{533}, \frac{270}{533}, -\frac{70}{533}, \frac{100}{533})$ $+ \frac{60}{533}\sqrt{154}e^3 \otimes e_5$	{1245678, 134}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:70	$0, 0, 0, 0, 0, \frac{144}{605}\sqrt{2}e^{12}, \frac{48}{605}\sqrt{6}e^{13} + \frac{16}{605}\sqrt{417}e^{24}, \frac{48}{605}\sqrt{109}e^{16},$ $\frac{32}{605}\sqrt{141}e^{14} + \frac{16}{605}\sqrt{510}e^{26} + \frac{48}{605}\sqrt{109}e^{35}$	$(-\frac{16}{121}, \frac{72}{605}, \frac{296}{605}, \frac{144}{605}, -\frac{232}{605}, -\frac{8}{605}, \frac{216}{605}, -\frac{8}{55}, \frac{64}{605})$ $+ \frac{48}{605}\sqrt{170}e^3 \otimes e_8$	{256789, 39}
942:71	$0, 0, 0, 0, 0, \frac{21}{865}\sqrt{13}e^{12}, \frac{7}{865}\sqrt{991}e^{13} + \frac{84}{865}\sqrt{6}e^{24}, \frac{14}{865}\sqrt{313}e^{16},$ $\frac{7}{865}\sqrt{83}e^{15} + \frac{14}{865}\sqrt{238}e^{26} + \frac{14}{865}\sqrt{241}e^{34}$	$(-\frac{77}{865}, \frac{56}{865}, \frac{84}{865}, -\frac{49}{865}, \frac{112}{865}, -\frac{21}{865}, \frac{7}{865}, -\frac{98}{865}, \frac{7}{173})$ $+ \frac{7}{865}\sqrt{1589}e^4 \otimes e_8$	{13467, 479}
942:71	$0, 0, 0, 0, 0, \frac{49}{3693}\sqrt{3554}e^{12}, \frac{294}{1231}\sqrt{5}e^{13} + \frac{49}{3693}\sqrt{2006}e^{24},$ $\frac{98}{3693}\sqrt{663}e^{16}, \frac{833}{3693}\sqrt{10}e^{15} + \frac{490}{3693}\sqrt{7}e^{26} + \frac{392}{3693}\sqrt{19}e^{34}$	$(\frac{1225}{3693}, \frac{196}{1231}, -\frac{294}{1231}, \frac{931}{3693}, -\frac{392}{1231}, \frac{637}{3693}, \frac{343}{3693}, \frac{1862}{3693}, \frac{49}{3693})$ $+ \frac{49}{3693}\sqrt{6314}e^1 \otimes e_5$	{2345678, 2568}
942:71	$0, 0, 0, 0, 0, \frac{7}{394}\sqrt{842}e^{12}, \frac{63}{394}\sqrt{6}e^{13} + \frac{21}{394}\sqrt{110}e^{24}, \frac{21}{394}\sqrt{46}e^{16},$ $\frac{7}{197}\sqrt{282}e^{15} + \frac{49}{394}\sqrt{6}e^{26} + \frac{7}{197}\sqrt{186}e^{34}$	$(-\frac{35}{197}, \frac{28}{197}, \frac{42}{197}, -\frac{21}{197}, \frac{56}{197}, -\frac{7}{197}, \frac{7}{197}, -\frac{42}{197}, \frac{21}{197})$ $+ \frac{7}{394}\sqrt{1498}e^5 \otimes e_7$	{126789, 2378}
942:71	$0, 0, 0, 0, 0, \frac{49}{3663}\sqrt{1294}e^{12}, \frac{196}{3663}\sqrt{69}e^{13} + \frac{147}{407}\sqrt{2}e^{24},$ $\frac{49}{3663}\sqrt{3090}e^{16}, \frac{98}{3663}\sqrt{622}e^{15} + \frac{196}{3663}\sqrt{35}e^{26} + \frac{98}{3663}\sqrt{894}e^{34}$	$(-\frac{980}{3663}, \frac{98}{407}, \frac{147}{407}, -\frac{49}{333}, \frac{196}{407}, -\frac{98}{3663}, \frac{343}{3663}, -\frac{98}{333}, \frac{784}{3663})$ $+ \frac{49}{3663}\sqrt{6286}e^3 \otimes e_8$	{1346, 379}
942:72	$0, 0, 0, 0, 0, \frac{17}{674}\sqrt{286}e^{12}, \frac{17}{674}\sqrt{586}e^{14} + \frac{85}{674}\sqrt{34}e^{23},$ $\frac{17}{337}\sqrt{38}e^{13} + \frac{17}{674}\sqrt{2}e^{26}, \frac{614}{674}\sqrt{266}e^{16} + \frac{51}{337}\sqrt{22}e^{45}$	$(\frac{68}{337}, -\frac{17}{337}, -\frac{34}{337}, -\frac{119}{337}, \frac{238}{337}, \frac{51}{337}, -\frac{51}{337}, \frac{34}{337}, \frac{119}{337})$ $+ \frac{17}{674}\sqrt{2270}e^5 \otimes e_7$	{1378, 2359}
942:72	$0, 0, 0, 0, 0, \frac{79}{5133}\sqrt{434}e^{12}, \frac{79}{5133}\sqrt{4778}e^{14} + \frac{1580}{5133}\sqrt{3}e^{23},$ $\frac{632}{5133}\sqrt{10}e^{13} + \frac{158}{5133}\sqrt{383}e^{26}, \frac{316}{5133}\sqrt{70}e^{16} + \frac{79}{5133}\sqrt{674}e^{45}$	$(-\frac{158}{1711}, \frac{869}{5133}, \frac{1738}{5133}, \frac{1027}{1711}, -\frac{3160}{5133}, \frac{395}{5133}, \frac{869}{1711}, \frac{1264}{5133}, -\frac{79}{5133})$ $+ \frac{79}{5133}\sqrt{8630}e^4 \otimes e_5$	{157, 4678}
942:72	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{273}e^{12}, \frac{29}{5093}\sqrt{4930}e^{14} + \frac{58}{5093}\sqrt{1390}e^{23},$ $\frac{87}{5093}\sqrt{398}e^{13} + \frac{29}{5093}\sqrt{4054}e^{26}, \frac{58}{5093}\sqrt{989}e^{16} + \frac{58}{5093}\sqrt{930}e^{45}$	$(-\frac{290}{5093}, \frac{261}{5093}, \frac{522}{5093}, \frac{1073}{5093}, -\frac{1392}{5093}, -\frac{29}{5093}, \frac{783}{5093}, \frac{232}{5093}, -\frac{29}{463})$ $+ \frac{145}{5093}\sqrt{370}e^3 \otimes e_9$	{1589, 469}
942:72	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{273}e^{12}, \frac{348}{5093}\sqrt{30}e^{14} + \frac{87}{5093}\sqrt{410}e^{23},$ $\frac{87}{5093}\sqrt{398}e^{13} + \frac{58}{5093}\sqrt{1299}e^{26}, \frac{29}{5093}\sqrt{5294}e^{16} + \frac{58}{5093}\sqrt{930}e^{45}$	$(-\frac{290}{5093}, \frac{261}{5093}, \frac{522}{5093}, \frac{1073}{5093}, \frac{1392}{5093}, -\frac{29}{5093}, \frac{783}{5093}, \frac{232}{5093}, -\frac{29}{463})$ $+ \frac{145}{5093}\sqrt{370}e^4 \otimes e_8$	{1345, 368}
942:73	$0, 0, 0, 0, 0, \frac{34}{1099}\sqrt{42}e^{12}, \frac{136}{1099}\sqrt{10}e^{34},$ $-\frac{17}{1099}\sqrt{1205}e^{13} + \frac{51}{1099}\sqrt{89}e^{26}, \frac{17}{1099}\sqrt{907}e^{16} + \frac{17}{1099}\sqrt{503}e^{23} + \frac{34}{1099}\sqrt{354}e^{45}$	$(\frac{34}{1099}, \frac{34}{1099}, \frac{68}{1099}, -\frac{289}{1099}, \frac{391}{1099}, \frac{68}{1099}, -\frac{221}{1099}, \frac{102}{1099}, \frac{102}{1099})$ $+ \frac{340}{1099}\sqrt{5}e^5 \otimes e_8$	{123569, 13457, 234789, 368, 123569, 13457, 234789, 368}
942:73	$0, 0, 0, 0, 0, \frac{34}{1099}\sqrt{42}e^{12}, \frac{136}{1099}\sqrt{10}e^{34},$ $\frac{17}{1099}\sqrt{1205}e^{13} + \frac{51}{1099}\sqrt{89}e^{26}, \frac{17}{1099}\sqrt{907}e^{16} + \frac{17}{1099}\sqrt{503}e^{23} + \frac{34}{1099}\sqrt{354}e^{45}$	$(\frac{34}{1099}, \frac{34}{1099}, \frac{68}{1099}, -\frac{289}{1099}, \frac{391}{1099}, \frac{68}{1099}, -\frac{221}{1099}, \frac{102}{1099}, \frac{102}{1099})$ $+ \frac{340}{1099}\sqrt{5}e^5 \otimes e_8$	{123569, 13457, 234789, 368, 123569, 13457, 234789, 368}
942:73	$0, 0, 0, 0, 0, \frac{4}{151}\sqrt{298}e^{12}, \frac{16}{151}\sqrt{21}e^{34}, -\frac{4}{151}\sqrt{42}e^{13} + \frac{8}{151}\sqrt{3}e^{26},$ $\frac{8}{151}\sqrt{83}e^{16} + \frac{16}{151}\sqrt{62}e^{23} + \frac{4}{151}\sqrt{114}e^{45}$	$(\frac{4}{151}, \frac{4}{151}, \frac{8}{151}, -\frac{36}{151}, \frac{48}{151}, \frac{8}{151}, -\frac{28}{151}, \frac{12}{151}, \frac{12}{151})$ $+ \frac{4}{151}\sqrt{526}e^1 \otimes e_7$	{1234589, 13468, 23679, 357, 1234589, 13468, 23679, 357}
942:73	$0, 0, 0, 0, 0, \frac{4}{151}\sqrt{298}e^{12}, \frac{16}{151}\sqrt{21}e^{34}, \frac{4}{151}\sqrt{42}e^{13} + \frac{8}{151}\sqrt{3}e^{26},$ $\frac{8}{151}\sqrt{83}e^{16} + \frac{16}{151}\sqrt{62}e^{23} + \frac{4}{151}\sqrt{114}e^{45}$	$(\frac{4}{151}, \frac{4}{151}, \frac{8}{151}, -\frac{36}{151}, \frac{48}{151}, \frac{8}{151}, -\frac{28}{151}, \frac{12}{151}, \frac{12}{151})$ $+ \frac{4}{151}\sqrt{526}e^1 \otimes e_7$	{1234589, 13468, 23679, 357, 1234589, 13468, 23679, 357}
942:73	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{30}e^{34}, -\frac{1}{5}\sqrt{5}e^{13} + \frac{1}{15}\sqrt{65}e^{26},$ $\frac{1}{15}\sqrt{35}e^{16} + \frac{1}{15}\sqrt{55}e^{23} + \frac{1}{15}\sqrt{70}e^{45}$	$(0, 0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{15}\sqrt{130}e^4 \otimes e_8$	{128, 15689, 24567, 479, 128, 15689, 24567, 479}
942:73	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{30}e^{34}, \frac{1}{5}\sqrt{5}e^{13} + \frac{1}{15}\sqrt{65}e^{26},$ $\frac{1}{15}\sqrt{35}e^{16} + \frac{1}{15}\sqrt{55}e^{23} + \frac{1}{15}\sqrt{70}e^{45}$	$(0, 0, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{15}\sqrt{130}e^4 \otimes e_8$	{128, 15689, 24567, 479, 128, 15689, 24567, 479}
942:73	$0, 0, 0, 0, 0, \frac{37}{1201}\sqrt{446}e^{12}, \frac{37}{1201}\sqrt{1190}e^{34},$ $-\frac{37}{1201}\sqrt{517}e^{13} + \frac{37}{1201}\sqrt{301}e^{26}, \frac{37}{1201}\sqrt{435}e^{16} + \frac{37}{1201}\sqrt{383}e^{23} + \frac{74}{1201}\sqrt{67}e^{45}$	$(\frac{37}{1201}, \frac{37}{1201}, \frac{74}{1201}, \frac{740}{1201}, -\frac{629}{1201}, \frac{74}{1201}, \frac{814}{1201}, \frac{111}{1201}, \frac{111}{1201})$ $+ \frac{74}{1201}\sqrt{491}e^4 \otimes e_5$	{13468, 135678, 34, 357, 13468, 135678, 34, 357}
942:73	$0, 0, 0, 0, 0, \frac{37}{1201}\sqrt{446}e^{12}, \frac{37}{1201}\sqrt{1190}e^{34},$ $\frac{37}{1201}\sqrt{517}e^{13} + \frac{37}{1201}\sqrt{301}e^{26}, \frac{37}{1201}\sqrt{435}e^{16} + \frac{37}{1201}\sqrt{383}e^{23} + \frac{74}{1201}\sqrt{67}e^{45}$	$(\frac{37}{1201}, \frac{37}{1201}, \frac{74}{1201}, \frac{740}{1201}, -\frac{629}{1201}, \frac{74}{1201}, \frac{814}{1201}, \frac{111}{1201}, \frac{111}{1201})$ $+ \frac{74}{1201}\sqrt{491}e^4 \otimes e_5$	{13468, 135678, 34, 357, 13468, 135678, 34, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:73	$0, 0, 0, 0, 0, \frac{35}{1233}\sqrt{426e^{12}}, \frac{35}{1233}\sqrt{858e^{34}},$ $-\frac{35}{1233}\sqrt{233e^{13}} + \frac{35}{1233}\sqrt{409e^{26}}, \frac{35}{1233}\sqrt{51e^{16}} + \frac{35}{1233}\sqrt{591e^{23}} + \frac{70}{1233}\sqrt{179e^{45}}$	$(\frac{35}{411}, \frac{35}{411}, \frac{70}{411}, -\frac{560}{1233}, \frac{875}{1233}, \frac{70}{411}, -\frac{350}{1233}, \frac{35}{137}, \frac{35}{137})$ $+\frac{70}{1233}\sqrt{503e^5} \otimes e_7$	{134568, 13678, 345, 37, 134568, 13678, 345, 37}
942:73	$0, 0, 0, 0, 0, \frac{35}{1233}\sqrt{426e^{12}}, \frac{35}{1233}\sqrt{858e^{34}},$ $\frac{35}{1233}\sqrt{233e^{13}} + \frac{35}{1233}\sqrt{409e^{26}}, \frac{35}{1233}\sqrt{51e^{16}} + \frac{35}{1233}\sqrt{591e^{23}} + \frac{70}{1233}\sqrt{179e^{45}}$	$(\frac{35}{411}, \frac{35}{411}, \frac{70}{411}, -\frac{560}{1233}, \frac{875}{1233}, \frac{70}{411}, -\frac{350}{1233}, \frac{35}{137}, \frac{35}{137})$ $+\frac{70}{1233}\sqrt{503e^5} \otimes e_7$	{134568, 13678, 345, 37, 134568, 13678, 345, 37}
942:74	$0, 0, 0, 0, 0, \frac{8}{521}\sqrt{65e^{12}}, \frac{1}{521}\sqrt{3810e^{34}}, \frac{2}{521}\sqrt{1095e^{13}} + \frac{1}{521}\sqrt{3810e^{26}},$ $\frac{5}{521}\sqrt{42e^{16}} + \frac{17}{521}\sqrt{10e^{24}} + \frac{5}{521}\sqrt{42e^{35}}$	$(-\frac{9}{521}, \frac{13}{521}, \frac{26}{521}, -\frac{18}{521}, -\frac{31}{521}, \frac{4}{521}, \frac{8}{521}, \frac{17}{521}, -\frac{5}{521})$ $+\frac{1}{521}\sqrt{4470e^2} \otimes e_7$	{123489, 23469}
942:74	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{21e^{12}}, \frac{1}{7}\sqrt{3e^{34}}, \frac{1}{7}\sqrt{33e^{13}} + \frac{1}{7}\sqrt{3e^{26}},$ $\frac{1}{7}\sqrt{15e^{16}} + \frac{1}{7}\sqrt{33e^{24}} + \frac{1}{7}\sqrt{15e^{35}}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, 0, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{39e^4} \otimes e_8$	{126789, 1578}
942:74	$0, 0, 0, 0, 0, \frac{49}{2269}\sqrt{706e^{12}}, \frac{1470}{2269}e^{34}, \frac{49}{2269}\sqrt{2038e^{13}} + \frac{882}{2269}\sqrt{2e^{26}},$ $\frac{49}{2269}\sqrt{174e^{16}} + \frac{98}{2269}\sqrt{187e^{24}} + \frac{98}{2269}\sqrt{237e^{35}}$	$(-\frac{245}{2269}, \frac{637}{2269}, \frac{1274}{2269}, -\frac{490}{2269}, -\frac{1127}{2269}, \frac{392}{2269}, \frac{784}{2269}, \frac{1029}{2269}, \frac{147}{2269})$ $+\frac{147}{2269}\sqrt{430e^3} \otimes e_5$	{158, 56}
942:74	$0, 0, 0, 0, 0, \frac{7}{631}\sqrt{881e^{12}}, \frac{210}{631}e^{34}, \frac{14}{631}\sqrt{127e^{13}} + \frac{63}{631}\sqrt{3e^{26}},$ $\frac{21}{631}\sqrt{91e^{16}} + \frac{21}{631}\sqrt{97e^{24}} + \frac{7}{631}\sqrt{57e^{35}}$	$(\frac{35}{631}, -\frac{42}{631}, -\frac{84}{631}, \frac{70}{631}, \frac{112}{631}, -\frac{7}{631}, -\frac{14}{631}, -\frac{49}{631}, \frac{28}{631})$ $+\frac{7}{631}\sqrt{1095e^1} \otimes e_7$	{1234589, 13468}
942:74	$0, 0, 0, 0, 0, \frac{41}{2359}\sqrt{194e^{12}}, \frac{246}{2359}\sqrt{14e^{34}},$ $\frac{41}{2359}\sqrt{718e^{13}} + \frac{123}{2359}\sqrt{214e^{26}}, \frac{41}{2359}\sqrt{1146e^{16}} + \frac{82}{2359}\sqrt{158e^{24}} + \frac{41}{2359}\sqrt{2094e^{35}}$	$(\frac{451}{2359}, -\frac{410}{2359}, -\frac{820}{2359}, \frac{902}{2359}, \frac{1312}{2359}, \frac{41}{2359}, \frac{82}{2359}, -\frac{369}{2359}, \frac{492}{2359})$ $+\frac{1845}{2359}\sqrt{2e^5} \otimes e_8$	{1278, 579}
942:74	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{759e^{12}}, \frac{1}{77}\sqrt{3498e^{34}}, \frac{3}{77}\sqrt{462e^{13}} + \frac{4}{77}\sqrt{165e^{26}},$ $\frac{6}{77}\sqrt{33e^{16}} + \frac{3}{77}\sqrt{462e^{24}} + \frac{2}{77}\sqrt{6e^{35}}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, 0, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{77}\sqrt{4290e^5} \otimes e_7$	{134568, 345}
942:75	$0, 0, 0, 0, 0, \frac{11}{466}\sqrt{746e^{12}}, \frac{11}{466}\sqrt{318e^{13}} + \frac{11}{466}\sqrt{1110e^{24}},$ $\frac{11}{466}\sqrt{30e^{16}} + \frac{11}{233}\sqrt{102e^{34}}, \frac{11}{233}\sqrt{246e^{15}} + \frac{33}{466}\sqrt{70e^{26}}$	$(-\frac{44}{233}, \frac{55}{233}, \frac{33}{233}, -\frac{66}{233}, \frac{110}{233}, \frac{11}{233}, -\frac{11}{233}, -\frac{33}{233}, \frac{66}{233})$ $+\frac{143}{466}\sqrt{10e^5} \otimes e_7$	{126789, 1479}
942:75	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{3e^{12}}, \frac{2}{121}\sqrt{57e^{13}} + \frac{1}{121}\sqrt{255e^{24}},$ $\frac{1}{121}\sqrt{281e^{16}} + \frac{2}{121}\sqrt{66e^{34}}, \frac{5}{121}\sqrt{3e^{15}} + \frac{3}{121}\sqrt{35e^{26}}$	$(\frac{5}{121}, -\frac{9}{242}, -\frac{2}{121}, \frac{15}{242}, -\frac{9}{121}, \frac{1}{242}, \frac{3}{121}, \frac{1}{22}, -\frac{4}{121})$ $+\frac{1}{121}\sqrt{445e^3} \otimes e_9$	{123568, 1345}
942:75	$0, 0, 0, 0, 0, \frac{13}{499}\sqrt{826e^{12}}, \frac{13}{499}\sqrt{582e^{13}} + \frac{26}{499}\sqrt{95e^{24}},$ $\frac{130}{499}\sqrt{7e^{16}} + \frac{26}{499}\sqrt{53e^{34}}, \frac{78}{499}\sqrt{19e^{15}} + \frac{13}{499}\sqrt{210e^{26}}$	$(\frac{143}{499}, -\frac{195}{998}, -\frac{26}{499}, \frac{429}{998}, -\frac{195}{499}, \frac{91}{998}, \frac{117}{499}, \frac{377}{998}, -\frac{52}{499})$ $-\frac{13}{499}\sqrt{1730e^1} \otimes e_5$	{2345678, 2568, 357, 45}
942:75	$0, 0, 0, 0, 0, \frac{13}{499}\sqrt{826e^{12}}, \frac{13}{499}\sqrt{582e^{13}} + \frac{26}{499}\sqrt{95e^{24}},$ $\frac{130}{499}\sqrt{7e^{16}} + \frac{26}{499}\sqrt{53e^{34}}, \frac{78}{499}\sqrt{19e^{15}} + \frac{13}{499}\sqrt{210e^{26}}$	$(\frac{143}{499}, -\frac{195}{998}, -\frac{26}{499}, \frac{429}{998}, -\frac{195}{499}, \frac{91}{998}, \frac{117}{499}, \frac{377}{998}, -\frac{52}{499})$ $+\frac{13}{499}\sqrt{1730e^1} \otimes e_5$	{2345678, 2568, 357, 45}
942:75	$0, 0, 0, 0, 0, \frac{215}{4087}\sqrt{42e^{12}}, \frac{43}{4087}\sqrt{1722e^{13}} + \frac{86}{4087}\sqrt{530e^{24}},$ $\frac{516}{4087}\sqrt{13e^{16}} + \frac{172}{4087}\sqrt{201e^{34}}, \frac{258}{4087}\sqrt{106e^{15}} + \frac{43}{4087}\sqrt{1370e^{26}}$	$(\frac{946}{4087}, -\frac{688}{4087}, -\frac{215}{4087}, \frac{1419}{4087}, -\frac{1376}{4087}, \frac{258}{4087}, \frac{731}{4087}, \frac{1204}{4087}, -\frac{430}{4087})$ $+\frac{129}{4087}\sqrt{790e^4} \otimes e_9$	{124568, 13457}
942:75	$0, 0, 0, 0, 0, \frac{212}{4037}\sqrt{22e^{12}}, \frac{159}{4037}\sqrt{298e^{13}} + \frac{106}{4037}\sqrt{310e^{24}},$ $\frac{318}{4037}\sqrt{62e^{16}} + \frac{106}{4037}\sqrt{607e^{34}}, \frac{53}{4037}\sqrt{3622e^{15}} + \frac{53}{4037}\sqrt{1990e^{26}}$	$(-\frac{848}{4037}, \frac{1113}{4037}, \frac{689}{4037}, -\frac{1272}{4037}, \frac{2226}{4037}, \frac{265}{4037}, -\frac{159}{4037}, -\frac{53}{367}, \frac{1378}{4037})$ $+\frac{265}{4037}\sqrt{278e^5} \otimes e_8$	{368, 4678}
942:76	$0, 0, 0, 0, 0, \frac{9}{259}\sqrt{7e^{12}}, \frac{8}{259}\sqrt{21e^{13}}, \frac{1}{259}\sqrt{1173e^{16}} + \frac{1}{259}\sqrt{1155e^{45}},$ $\frac{1}{259}\sqrt{435e^{14}} + \frac{1}{259}\sqrt{663e^{26}} + \frac{1}{259}\sqrt{1173e^{35}}$	$(\frac{13}{518}, -\frac{3}{259}, -\frac{31}{518}, -\frac{6}{259}, \frac{16}{259}, \frac{1}{74}, -\frac{9}{259}, \frac{10}{259}, \frac{1}{518})$ $+\frac{6}{259}\sqrt{41e^4} \otimes e_7$	{123468, 2489}
942:76	$0, 0, 0, 0, 0, \frac{144}{605}\sqrt{2e^{12}}, \frac{16}{55}\sqrt{3e^{13}}, \frac{32}{605}\sqrt{141e^{16}} + \frac{16}{605}\sqrt{417e^{45}},$ $\frac{32}{605}\sqrt{141e^{14}} + \frac{16}{605}\sqrt{93e^{26}} + \frac{32}{605}\sqrt{141e^{35}}$	$(-\frac{16}{121}, \frac{72}{605}, \frac{296}{605}, \frac{144}{605}, -\frac{232}{605}, -\frac{8}{605}, \frac{216}{605}, -\frac{8}{55}, \frac{64}{605})$ $+\frac{48}{605}\sqrt{170e^3} \otimes e_8$	{25689, 379}
942:76	$0, 0, 0, 0, 0, \frac{6}{143}\sqrt{10e^{12}}, \frac{2}{143}\sqrt{318e^{13}}, \frac{4}{143}\sqrt{57e^{16}} + \frac{2}{143}\sqrt{219e^{45}},$ $\frac{6}{143}\sqrt{159e^{14}} + \frac{4}{143}\sqrt{87e^{26}} + \frac{4}{143}\sqrt{57e^{35}}$	$(\frac{7}{143}, -\frac{3}{143}, -\frac{16}{143}, -\frac{6}{143}, \frac{17}{143}, \frac{4}{143}, -\frac{9}{143}, \frac{1}{13}, \frac{1}{143})$ $-\frac{6}{143}\sqrt{43e^2} \otimes e_7$	{123459, 146789, 2456, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:76	$0, 0, 0, 0, 0, \frac{6}{143}\sqrt{10}e^{12}, \frac{2}{143}\sqrt{318}e^{13}, \frac{4}{143}\sqrt{57}e^{16} + \frac{2}{143}\sqrt{219}e^{45},$ $\frac{2}{143}\sqrt{159}e^{14} + \frac{4}{143}\sqrt{87}e^{26} + \frac{4}{143}\sqrt{57}e^{35}$	$(\frac{7}{143}, -\frac{3}{143}, -\frac{16}{143}, -\frac{6}{143}, \frac{17}{143}, \frac{4}{143}, -\frac{9}{143}, \frac{1}{13}, \frac{1}{143})$ $+ \frac{6}{143}\sqrt{43}e^2 \otimes e_7$	{123459, 146789, 2456, 3478}
942:77	$0, 0, 0, 0, 0, \frac{16}{581}\sqrt{58}e^{12}, \frac{192}{581}\sqrt{5}e^{13}, \frac{32}{581}\sqrt{7}e^{26} + \frac{16}{581}\sqrt{674}e^{45},$ $\frac{32}{581}\sqrt{53}e^{16} + \frac{64}{581}\sqrt{10}e^{24} + \frac{16}{581}\sqrt{434}e^{35}$	$(-\frac{16}{581}, \frac{144}{581}, -\frac{192}{581}, -\frac{32}{581}, \frac{304}{581}, \frac{128}{581}, -\frac{208}{581}, \frac{272}{581}, \frac{16}{83})$ $+ \frac{16}{581}\sqrt{1938}e^5 \otimes e_7$	{1345, 234789}
942:77	$0, 0, 0, 0, 0, \frac{98}{4645}e^{12}, \frac{49}{4645}\sqrt{2874}e^{13}, \frac{98}{4645}\sqrt{986}e^{26} + \frac{49}{4645}\sqrt{1294}e^{45},$ $\frac{49}{4645}\sqrt{2314}e^{16} + \frac{49}{4645}\sqrt{1522}e^{24} + \frac{49}{4645}\sqrt{2986}e^{35}$	$(\frac{392}{4645}, -\frac{539}{4645}, \frac{343}{929}, \frac{784}{4645}, -\frac{294}{929}, -\frac{147}{4645}, \frac{2107}{4645}, -\frac{686}{4645}, \frac{49}{929})$ $+ \frac{49}{929}\sqrt{318}e^3 \otimes e_8$	{1345, 468}
942:77	$0, 0, 0, 0, 0, \frac{46}{3997}\sqrt{895}e^{12}, \frac{92}{3997}\sqrt{357}e^{13},$ $\frac{23}{3997}\sqrt{2138}e^{26} + \frac{23}{3997}\sqrt{2906}e^{45}, \frac{92}{3997}\sqrt{95}e^{16} + \frac{92}{3997}\sqrt{341}e^{24} + \frac{23}{3997}\sqrt{4042}e^{35}$	$(-\frac{92}{3997}, \frac{345}{3997}, -\frac{621}{3997}, -\frac{184}{3997}, \frac{782}{3997}, \frac{253}{3997}, -\frac{713}{3997}, \frac{598}{3997}, \frac{23}{571})$ $+ \frac{23}{3997}\sqrt{7566}e^4 \otimes e_7$	{1578, 367}
942:78	$0, 0, 0, 0, 0, \frac{35}{363}\sqrt{3}e^{12}, \frac{91}{363}\sqrt{6}e^{13} + \frac{7}{363}\sqrt{633}e^{24},$ $\frac{7}{363}\sqrt{93}e^{15} + \frac{28}{363}\sqrt{1209}e^{26}, \frac{7}{121}\sqrt{101}e^{16} + \frac{14}{363}\sqrt{165}e^{35}$	$(\frac{7}{121}, -\frac{14}{121}, \frac{28}{121}, \frac{49}{121}, -\frac{28}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{21}{121}, 0)$ $+ \frac{7}{363}\sqrt{1929}e^3 \otimes e_8$	{1345, 2589}
942:78	$0, 0, 0, 0, 0, \frac{35}{363}\sqrt{3}e^{12}, \frac{7}{363}\sqrt{915}e^{13} + \frac{84}{121}e^{24},$ $\frac{7}{363}\sqrt{93}e^{15} + \frac{28}{121}\sqrt{5}e^{26}, \frac{14}{363}\sqrt{255}e^{16} + \frac{14}{363}\sqrt{165}e^{35}$	$(\frac{7}{121}, -\frac{14}{121}, \frac{28}{121}, \frac{49}{121}, -\frac{28}{121}, -\frac{7}{121}, \frac{35}{121}, -\frac{21}{121}, 0)$ $+ \frac{7}{363}\sqrt{1929}e^4 \otimes e_9$	{12468, 369}
942:78	$0, 0, 0, 0, 0, \frac{3}{68}\sqrt{166}e^{12}, \frac{3}{68}\sqrt{58}e^{13} + \frac{3}{68}\sqrt{258}e^{24},$ $\frac{3}{34}\sqrt{62}e^{15} + \frac{3}{68}\sqrt{122}e^{26}, \frac{3}{68}\sqrt{74}e^{16} + \frac{3}{34}\sqrt{26}e^{35}$	$(0, \frac{3}{17}, -\frac{3}{17}, -\frac{6}{17}, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17})$ $+ \frac{3}{68}\sqrt{478}e^5 \otimes e_7$	{1478, 2379}
942:78	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{78}e^{12}, \frac{3}{68}\sqrt{58}e^{13} + \frac{3}{34}\sqrt{55}e^{24},$ $\frac{3}{68}\sqrt{230}e^{15} + \frac{3}{34}\sqrt{89}e^{26}, \frac{3}{68}\sqrt{74}e^{16} + \frac{3}{34}\sqrt{26}e^{35}$	$(0, \frac{3}{17}, -\frac{3}{17}, -\frac{6}{17}, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{6}{17}, \frac{3}{17})$ $+ \frac{3}{68}\sqrt{478}e^2 \otimes e_4$	{12358, 459}
942:79	$0, 0, 0, 0, 0, \frac{8}{33}\sqrt{3}e^{12}, \frac{4}{33}\sqrt{3}e^{14} + \frac{8}{33}\sqrt{6}e^{23},$ $\frac{4}{33}\sqrt{30}e^{15} + \frac{4}{33}\sqrt{21}e^{26}, \frac{4}{11}\sqrt{2}e^{16} + \frac{4}{33}\sqrt{21}e^{35}$	$(\frac{2}{11}, -\frac{2}{11}, \frac{6}{11}, \frac{2}{11}, -\frac{4}{11}, 0, \frac{4}{11}, -\frac{2}{11}, \frac{2}{11})$ $+ \frac{8}{33}\sqrt{21}e^3 \otimes e_8$	{13457, 25789}
942:79	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{102}e^{12}, \frac{15}{109}\sqrt{22}e^{14} + \frac{5}{218}\sqrt{730}e^{23},$ $\frac{15}{218}\sqrt{30}e^{15} + \frac{5}{218}\sqrt{826}e^{26}, \frac{5}{218}\sqrt{606}e^{16} + \frac{5}{109}\sqrt{142}e^{35}$	$(\frac{10}{109}, -\frac{25}{218}, \frac{65}{218}, \frac{10}{109}, -\frac{25}{109}, -\frac{5}{218}, \frac{20}{109}, -\frac{15}{109}, \frac{15}{218})$ $+ \frac{15}{218}\sqrt{86}e^4 \otimes e_8$	{123578, 156789, 234567, 4579}
942:79	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{102}e^{12}, \frac{15}{109}\sqrt{22}e^{14} + \frac{5}{218}\sqrt{730}e^{23},$ $\frac{15}{218}\sqrt{30}e^{15} + \frac{5}{218}\sqrt{826}e^{26}, \frac{5}{218}\sqrt{606}e^{16} + \frac{5}{109}\sqrt{142}e^{35}$	$(\frac{10}{109}, -\frac{25}{218}, \frac{65}{218}, \frac{10}{109}, -\frac{25}{109}, -\frac{5}{218}, \frac{20}{109}, -\frac{15}{109}, \frac{15}{218})$ $- \frac{15}{218}\sqrt{86}e^4 \otimes e_8$	{123578, 156789, 234567, 4579}
942:79	$0, 0, 0, 0, 0, \frac{16}{887}\sqrt{21}e^{12}, \frac{12}{887}\sqrt{97}e^{14} + \frac{8}{887}\sqrt{235}e^{23},$ $\frac{12}{887}\sqrt{94}e^{15} + \frac{4}{887}\sqrt{721}e^{26}, \frac{4}{887}\sqrt{282}e^{16} + \frac{4}{887}\sqrt{985}e^{35}$	$(\frac{14}{887}, -\frac{22}{887}, \frac{50}{887}, \frac{14}{887}, -\frac{44}{887}, -\frac{8}{887}, \frac{28}{887}, -\frac{30}{887}, \frac{6}{887})$ $+ \frac{24}{887}\sqrt{22}e^4 \otimes e_9$	{156789, 234567}
942:80	$0, 0, 0, 0, 0, \frac{62}{3559}\sqrt{730}e^{12}, \frac{93}{3559}\sqrt{210}e^{34},$ $\frac{31}{3559}\sqrt{4990}e^{15} + \frac{31}{3559}\sqrt{106}e^{26}, \frac{62}{3559}\sqrt{1914}e^{16} + \frac{62}{3559}\sqrt{1090}e^{23} + \frac{124}{3559}\sqrt{182}e^{45}$	$(\frac{217}{3559}, -\frac{372}{3559}, \frac{434}{3559}, \frac{806}{3559}, -\frac{744}{3559}, -\frac{155}{3559}, \frac{1240}{3559}, -\frac{527}{3559}, \frac{62}{3559})$ $+ \frac{248}{3559}\sqrt{102}e^3 \otimes e_8$	{12689, 1478}
942:80	$0, 0, 0, 0, 0, \frac{70}{247}\sqrt{2}e^{12}, \frac{7}{247}\sqrt{258}e^{34}, \frac{7}{247}\sqrt{62}e^{15} + \frac{7}{247}\sqrt{26}e^{26},$ $\frac{7}{247}\sqrt{246}e^{16} + \frac{14}{247}\sqrt{42}e^{23} + \frac{28}{247}\sqrt{7}e^{45}$	$(-\frac{7}{247}, \frac{28}{247}, -\frac{14}{247}, -\frac{42}{247}, \frac{56}{247}, \frac{21}{247}, -\frac{56}{247}, \frac{49}{247}, \frac{14}{247})$ $+ \frac{84}{247}\sqrt{3}e^1 \otimes e_7$	{123459, 3578}
942:80	$0, 0, 0, 0, 0, \frac{59}{3949}\sqrt{190}e^{12}, \frac{118}{3949}\sqrt{582}e^{34},$ $\frac{59}{3949}\sqrt{2426}e^{15} + \frac{118}{3949}\sqrt{10}e^{26}, \frac{59}{3949}\sqrt{690}e^{16} + \frac{59}{3949}\sqrt{546}e^{23} + \frac{118}{3949}\sqrt{365}e^{45}$	$(-\frac{118}{3949}, \frac{1003}{3949}, -\frac{236}{3949}, -\frac{1239}{3949}, \frac{2006}{3949}, \frac{885}{3949}, -\frac{1475}{3949}, \frac{1888}{3949}, \frac{767}{3949})$ $+ \frac{354}{3949}\sqrt{183}e^5 \otimes e_7$	{1345, 34568}
942:80	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{77}e^{12}, \frac{1}{23}\sqrt{165}e^{34}, \frac{1}{23}\sqrt{22}e^{15} + \frac{11}{23}\sqrt{2}e^{26},$ $\frac{1}{23}\sqrt{66}e^{16} + \frac{4}{23}\sqrt{11}e^{23} + \frac{1}{23}\sqrt{187}e^{45}$	$(\frac{2}{23}, -\frac{3}{23}, \frac{4}{23}, \frac{7}{23}, -\frac{6}{23}, -\frac{1}{23}, \frac{11}{23}, -\frac{4}{23}, \frac{1}{23})$ $+ \frac{1}{23}\sqrt{429}e^4 \otimes e_8$	{128, 479}
942:81	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{102}e^{12}, \frac{6}{37}\sqrt{14}e^{14} + \frac{4}{37}\sqrt{57}e^{35},$ $\frac{6}{37}\sqrt{26}e^{16} - \frac{2}{37}\sqrt{6}e^{23}, \frac{4}{37}\sqrt{30}e^{13} + \frac{6}{37}\sqrt{2}e^{26}$	$(-\frac{2}{37}, -\frac{2}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{18}{37}, -\frac{4}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+ \frac{6}{37}\sqrt{42}e^5 \otimes e_8$	{128, 14567, 24689, 579, 128, 14567, 24689, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:81	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{102}e^{12}, \frac{6}{37}\sqrt{14}e^{14} + \frac{4}{37}\sqrt{57}e^{35},$ $\frac{6}{37}\sqrt{26}e^{16} + \frac{2}{37}\sqrt{6}e^{23}, \frac{4}{37}\sqrt{30}e^{13} + \frac{6}{37}\sqrt{2}e^{26}$	$(-\frac{2}{37}, -\frac{2}{37}, -\frac{4}{37}, \frac{16}{37}, \frac{18}{37}, -\frac{4}{37}, \frac{14}{37}, -\frac{6}{37}, -\frac{6}{37})$ $+ \frac{6}{37}\sqrt{42}e^5 \otimes e_8$	{128, 14567, 24689, 579, 128, 14567, 24689, 579}
942:81	$0, 0, 0, 0, 0, \frac{10}{281}\sqrt{282}e^{12}, \frac{60}{281}\sqrt{7}e^{14} + \frac{20}{281}\sqrt{39}e^{35},$ $\frac{15}{281}\sqrt{129}e^{16} - \frac{25}{281}\sqrt{39}e^{23}, \frac{5}{281}\sqrt{285}e^{13} + \frac{15}{281}\sqrt{11}e^{26}$	$(\frac{20}{281}, \frac{20}{281}, \frac{40}{281}, -\frac{55}{281}, -\frac{75}{281}, \frac{40}{281}, -\frac{35}{281}, \frac{60}{281}, \frac{60}{281})$ $+ \frac{30}{281}\sqrt{42}e^1 \otimes e_4$	{12358, 1356, 2345689, 3459, 12358, 1356, 2345689, 3459}
942:81	$0, 0, 0, 0, 0, \frac{10}{281}\sqrt{282}e^{12}, \frac{60}{281}\sqrt{7}e^{14} + \frac{20}{281}\sqrt{39}e^{35},$ $\frac{15}{281}\sqrt{129}e^{16} + \frac{25}{281}\sqrt{39}e^{23}, \frac{5}{281}\sqrt{285}e^{13} + \frac{15}{281}\sqrt{11}e^{26}$	$(\frac{20}{281}, \frac{20}{281}, \frac{40}{281}, -\frac{55}{281}, -\frac{75}{281}, \frac{40}{281}, -\frac{35}{281}, \frac{60}{281}, \frac{60}{281})$ $+ \frac{30}{281}\sqrt{42}e^1 \otimes e_4$	{12358, 1356, 2345689, 3459, 12358, 1356, 2345689, 3459}
942:81	$0, 0, 0, 0, 0, \frac{14}{241}\sqrt{186}e^{12}, \frac{14}{241}\sqrt{114}e^{14} + \frac{14}{241}\sqrt{186}e^{35},$ $\frac{7}{241}\sqrt{615}e^{16} - \frac{7}{241}\sqrt{1041}e^{23}, \frac{7}{241}\sqrt{813}e^{13} + \frac{21}{241}\sqrt{43}e^{26}$	$(\frac{28}{241}, \frac{28}{241}, \frac{56}{241}, -\frac{63}{241}, -\frac{91}{241}, \frac{56}{241}, -\frac{35}{241}, \frac{84}{241}, \frac{84}{241})$ $+ \frac{42}{241}\sqrt{38}e^3 \otimes e_5$	{1245689, 1459, 258, 56, 1245689, 1459, 258, 56}
942:81	$0, 0, 0, 0, 0, \frac{14}{241}\sqrt{186}e^{12}, \frac{14}{241}\sqrt{114}e^{14} + \frac{14}{241}\sqrt{186}e^{35},$ $\frac{7}{241}\sqrt{615}e^{16} + \frac{7}{241}\sqrt{1041}e^{23}, \frac{7}{241}\sqrt{813}e^{13} + \frac{21}{241}\sqrt{43}e^{26}$	$(\frac{28}{241}, \frac{28}{241}, \frac{56}{241}, -\frac{63}{241}, -\frac{91}{241}, \frac{56}{241}, -\frac{35}{241}, \frac{84}{241}, \frac{84}{241})$ $+ \frac{42}{241}\sqrt{38}e^3 \otimes e_5$	{1245689, 1459, 258, 56, 1245689, 1459, 258, 56}
942:81	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39}e^{12}, \frac{1}{19}\sqrt{33}e^{14} + \frac{1}{19}\sqrt{39}e^{35},$ $\frac{2}{19}\sqrt{3}e^{16} - \frac{1}{19}\sqrt{15}e^{23}, \frac{1}{19}\sqrt{51}e^{13} + \frac{3}{19}\sqrt{6}e^{26}$	$(\frac{1}{19}, \frac{1}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{4}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_7$	{123459, 136789, 2356, 3478, 123459, 136789, 2356, 3478}
942:81	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39}e^{12}, \frac{1}{19}\sqrt{33}e^{14} + \frac{1}{19}\sqrt{39}e^{35},$ $\frac{2}{19}\sqrt{3}e^{16} + \frac{1}{19}\sqrt{15}e^{23}, \frac{1}{19}\sqrt{51}e^{13} + \frac{3}{19}\sqrt{6}e^{26}$	$(\frac{1}{19}, \frac{1}{19}, \frac{2}{19}, -\frac{3}{19}, -\frac{4}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{3}{19}\sqrt{11}e^2 \otimes e_7$	{123459, 136789, 2356, 3478, 123459, 136789, 2356, 3478}
942:82	$0, 0, 0, 0, 0, \frac{93}{3749}\sqrt{386}e^{12}, \frac{124}{3749}\sqrt{195}e^{13} + \frac{1488}{3749}e^{45},$ $\frac{1364}{3749}\sqrt{2}e^{16} + \frac{93}{3749}\sqrt{390}e^{23}, \frac{31}{3749}\sqrt{4278}e^{14} + \frac{31}{3749}\sqrt{1194}e^{26}$	$(\frac{217}{3749}, -\frac{372}{3749}, \frac{434}{3749}, -\frac{744}{3749}, \frac{1395}{3749}, -\frac{155}{3749}, \frac{651}{3749}, \frac{62}{3749}, -\frac{527}{3749})$ $+ \frac{62}{3749}\sqrt{1753}e^3 \otimes e_9$	{2489, 469}
942:82	$0, 0, 0, 0, 0, \frac{67}{3901}\sqrt{1574}e^{12}, \frac{134}{3901}\sqrt{137}e^{13} + \frac{134}{3901}\sqrt{235}e^{45},$ $\frac{134}{3901}\sqrt{278}e^{16} + \frac{67}{3901}\sqrt{1902}e^{23}, \frac{67}{3901}\sqrt{4454}e^{14} + \frac{201}{3901}\sqrt{154}e^{26}$	$(-\frac{67}{3901}, \frac{1072}{3901}, -\frac{134}{3901}, \frac{2144}{3901}, \frac{2345}{3901}, \frac{1005}{3901}, \frac{201}{3901}, \frac{938}{3901}, \frac{2077}{3901})$ $+ \frac{134}{3901}\sqrt{1679}e^4 \otimes e_5$	{125689, 159}
942:82	$0, 0, 0, 0, 0, \frac{7}{277}\sqrt{239}e^{12}, \frac{7}{277}\sqrt{133}e^{13} + \frac{7}{277}\sqrt{229}e^{45},$ $\frac{7}{277}\sqrt{17}e^{16} + \frac{7}{277}\sqrt{30}e^{23}, \frac{7}{277}\sqrt{266}e^{14} + \frac{119}{277}e^{26}$	$(-\frac{7}{277}, \frac{28}{277}, -\frac{14}{277}, \frac{56}{277}, -\frac{77}{277}, \frac{21}{277}, -\frac{21}{277}, \frac{14}{277}, \frac{49}{277})$ $+ \frac{7}{277}\sqrt{479}e^2 \otimes e_7$	{146789, 2456}
942:82	$0, 0, 0, 0, 0, \frac{55}{263}\sqrt{2}e^{12}, \frac{33}{263}\sqrt{22}e^{13} + \frac{11}{263}\sqrt{262}e^{45},$ $\frac{33}{263}\sqrt{26}e^{16} + \frac{11}{263}\sqrt{178}e^{23}, \frac{11}{263}\sqrt{62}e^{14} + \frac{11}{263}\sqrt{94}e^{26}$	$(\frac{22}{263}, -\frac{33}{263}, \frac{44}{263}, -\frac{66}{263}, \frac{132}{263}, -\frac{11}{263}, \frac{66}{263}, \frac{11}{263}, -\frac{44}{263})$ $+ \frac{11}{263}\sqrt{458}e^5 \otimes e_8$	{128, 579}
942:82	$0, 0, 0, 0, 0, \frac{276}{3959}\sqrt{10}e^{12}, \frac{92}{3959}\sqrt{237}e^{13} + \frac{23}{3959}\sqrt{2586}e^{45},$ $\frac{23}{3959}\sqrt{2118}e^{16} + \frac{23}{3959}\sqrt{4814}e^{23}, \frac{92}{3959}\sqrt{247}e^{14} + \frac{23}{3959}\sqrt{3410}e^{26}$	$(-\frac{92}{3959}, \frac{345}{3959}, -\frac{184}{3959}, \frac{690}{3959}, \frac{966}{3959}, \frac{253}{3959}, -\frac{276}{3959}, \frac{161}{3959}, \frac{598}{3959})$ $+ \frac{92}{3959}\sqrt{454}e^4 \otimes e_8$	{135789, 368}
942:83	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{826}e^{12}, \frac{5}{218}\sqrt{606}e^{15} + \frac{5}{109}\sqrt{142}e^{34},$ $\frac{15}{109}\sqrt{22}e^{16} + \frac{5}{218}\sqrt{730}e^{23}, \frac{15}{218}\sqrt{30}e^{14} + \frac{5}{218}\sqrt{102}e^{26}$	$(\frac{65}{436}, -\frac{25}{218}, \frac{65}{218}, -\frac{25}{109}, -\frac{35}{436}, \frac{15}{436}, \frac{15}{218}, \frac{20}{109}, -\frac{35}{436})$ $- \frac{15}{218}\sqrt{86}e^1 \otimes e_5$	{123489, 13469, 234568, 345}
942:83	$0, 0, 0, 0, 0, \frac{5}{218}\sqrt{826}e^{12}, \frac{5}{218}\sqrt{606}e^{15} + \frac{5}{109}\sqrt{142}e^{34},$ $\frac{15}{109}\sqrt{22}e^{16} + \frac{5}{218}\sqrt{730}e^{23}, \frac{15}{218}\sqrt{30}e^{14} + \frac{5}{218}\sqrt{102}e^{26}$	$(\frac{65}{436}, -\frac{25}{218}, \frac{65}{218}, -\frac{25}{109}, -\frac{35}{436}, \frac{15}{436}, \frac{15}{218}, \frac{20}{109}, -\frac{35}{436})$ $+ \frac{15}{218}\sqrt{86}e^1 \otimes e_5$	{123489, 13469, 234568, 345}
942:83	$0, 0, 0, 0, 0, \frac{7}{493}\sqrt{2490}e^{12}, \frac{7}{493}\sqrt{2454}e^{15} + \frac{7}{493}\sqrt{2490}e^{34},$ $\frac{7}{493}\sqrt{1110}e^{16} + \frac{35}{493}\sqrt{138}e^{23}, \frac{7}{493}\sqrt{1686}e^{14} + \frac{7}{493}\sqrt{1302}e^{26}$	$(-\frac{70}{493}, \frac{77}{493}, -\frac{140}{493}, \frac{154}{493}, \frac{84}{493}, \frac{7}{493}, \frac{14}{493}, -\frac{63}{493}, \frac{84}{493})$ $+ \frac{7}{493}\sqrt{2838}e^5 \otimes e_8$	{126789, 567}
942:83	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{42}e^{12}, \frac{4}{53}\sqrt{30}e^{15} + \frac{8}{53}\sqrt{5}e^{34},$ $\frac{4}{53}\sqrt{42}e^{16} + \frac{4}{53}\sqrt{86}e^{23}, \frac{16}{53}\sqrt{6}e^{14} + \frac{4}{53}\sqrt{66}e^{26}$	$(-\frac{10}{53}, \frac{12}{53}, -\frac{20}{53}, \frac{24}{53}, \frac{14}{53}, \frac{2}{53}, \frac{4}{53}, -\frac{8}{53}, \frac{14}{53})$ $+ \frac{4}{53}\sqrt{186}e^4 \otimes e_8$	{135789, 3678}
942:83	$0, 0, 0, 0, 0, \frac{62}{1669}\sqrt{390}e^{12}, \frac{31}{1669}\sqrt{690}e^{15} + \frac{31}{1669}\sqrt{574}e^{34},$ $\frac{31}{1669}\sqrt{1626}e^{16} + \frac{310}{1669}\sqrt{23}e^{23}, \frac{93}{1669}\sqrt{230}e^{14} + \frac{93}{1669}\sqrt{22}e^{26}$	$(\frac{403}{1669}, -\frac{279}{1669}, \frac{806}{1669}, -\frac{558}{1669}, -\frac{155}{1669}, \frac{124}{1669}, \frac{248}{1669}, \frac{527}{1669}, -\frac{155}{1669})$ $+ \frac{31}{1669}\sqrt{2958}e^3 \otimes e_9$	{2489, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:83	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{70}e^{12}, \frac{1}{26}\sqrt{6}e^{15} + \frac{1}{26}\sqrt{70}e^{34},$ $\frac{3}{26}\sqrt{2}e^{16} + \frac{1}{13}\sqrt{10}e^{23}, \frac{3}{13}\sqrt{2}e^{14} + \frac{1}{26}\sqrt{66}e^{26}$	$(-\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, \frac{1}{13}, 0, 0, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{3}{26}\sqrt{10}e^2 \otimes e_7$	{1234589, 23468}
942:86	$0, 0, 0, 0, 0, \frac{27}{991}\sqrt{458}e^{12}, \frac{18}{991}\sqrt{282}e^{13}, \frac{18}{991}\sqrt{969}e^{16} + \frac{9}{991}\sqrt{3774}e^{23},$ $\frac{9}{991}\sqrt{3774}e^{14} + \frac{27}{991}\sqrt{82}e^{26} + \frac{72}{991}\sqrt{33}e^{35}$	$(\frac{99}{991}, -\frac{72}{991}, \frac{198}{991}, -\frac{144}{991}, -\frac{243}{991}, \frac{27}{991}, \frac{297}{991}, \frac{126}{991}, -\frac{45}{991})$ $+ \frac{378}{991}\sqrt{3}e^1 \otimes e_4$	{2345678, 3457}
942:86	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{3}{61}\sqrt{174}e^{13}, \frac{3}{61}\sqrt{102}e^{16} + \frac{3}{61}\sqrt{42}e^{23},$ $\frac{3}{61}\sqrt{66}e^{14} + \frac{9}{61}\sqrt{22}e^{26} + \frac{3}{61}\sqrt{102}e^{35}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{18}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^2 \otimes e_7$	{123459, 3478}
942:86	$0, 0, 0, 0, 0, \frac{45}{179}\sqrt{10}e^{12}, \frac{6}{179}\sqrt{615}e^{13}, \frac{6}{179}\sqrt{570}e^{16} + \frac{3}{179}\sqrt{3210}e^{23},$ $\frac{3}{179}\sqrt{1590}e^{14} + \frac{9}{179}\sqrt{10}e^{26} + \frac{6}{179}\sqrt{570}e^{35}$	$(\frac{33}{179}, -\frac{18}{179}, \frac{66}{179}, -\frac{36}{179}, -\frac{69}{179}, \frac{15}{179}, \frac{99}{179}, \frac{48}{179}, -\frac{3}{179})$ $+ \frac{54}{179}\sqrt{15}e^3 \otimes e_5$	{1245678, 1457}
942:86	$0, 0, 0, 0, 0, \frac{54}{877}\sqrt{58}e^{12}, \frac{9}{877}\sqrt{1590}e^{13}, \frac{9}{877}\sqrt{330}e^{16} + \frac{9}{877}\sqrt{4074}e^{23},$ $\frac{9}{877}\sqrt{4074}e^{14} + \frac{27}{877}\sqrt{254}e^{26} + \frac{9}{877}\sqrt{1326}e^{35}$	$(-\frac{72}{877}, \frac{99}{877}, -\frac{144}{877}, \frac{198}{877}, \frac{270}{877}, \frac{27}{877}, -\frac{216}{877}, -\frac{45}{877}, \frac{126}{877})$ $+ \frac{54}{877}\sqrt{138}e^4 \otimes e_8$	{135789, 368}
942:86	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{15}{61}\sqrt{6}e^{13}, \frac{3}{61}\sqrt{222}e^{16} + \frac{3}{61}\sqrt{42}e^{23},$ $\frac{3}{61}\sqrt{66}e^{14} + \frac{9}{61}\sqrt{14}e^{26} + \frac{3}{61}\sqrt{222}e^{35}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{18}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^5 \otimes e_8$	{128, 579}
942:86	$0, 0, 0, 0, 0, \frac{45}{179}\sqrt{10}e^{12}, \frac{6}{179}\sqrt{615}e^{13}, \frac{6}{179}\sqrt{570}e^{16} + \frac{3}{179}\sqrt{1590}e^{23},$ $\frac{3}{179}\sqrt{3210}e^{14} + \frac{9}{179}\sqrt{10}e^{26} + \frac{6}{179}\sqrt{570}e^{35}$	$(-\frac{21}{179}, \frac{36}{179}, -\frac{42}{179}, \frac{72}{179}, \frac{93}{179}, \frac{15}{179}, -\frac{63}{179}, -\frac{6}{179}, \frac{51}{179})$ $+ \frac{54}{179}\sqrt{15}e^4 \otimes e_7$	{2489, 469}
942:87	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{70}e^{12}, \frac{4}{95}\sqrt{195}e^{13}, \frac{2}{95}\sqrt{33}e^{14} + \frac{6}{95}\sqrt{110}e^{26},$ $\frac{4}{19}\sqrt{3}e^{16} + \frac{4}{95}\sqrt{105}e^{23} + \frac{6}{95}\sqrt{65}e^{45}$	$(-\frac{1}{19}, \frac{3}{19}, -\frac{2}{19}, \frac{6}{19}, -\frac{5}{19}, \frac{2}{19}, -\frac{3}{19}, \frac{5}{19}, \frac{1}{19})$ $+ \frac{18}{95}\sqrt{15}e^2 \otimes e_7$	{146789, 2456}
942:87	$0, 0, 0, 0, 0, \frac{126}{467}\sqrt{2}e^{12}, \frac{14}{467}\sqrt{345}e^{13}, \frac{84}{467}\sqrt{3}e^{14} + \frac{84}{467}\sqrt{22}e^{26},$ $\frac{14}{467}\sqrt{366}e^{16} + \frac{14}{467}\sqrt{501}e^{23} + \frac{84}{467}\sqrt{22}e^{45}$	$(\frac{63}{467}, -\frac{77}{467}, \frac{126}{467}, -\frac{154}{467}, \frac{203}{467}, -\frac{14}{467}, \frac{189}{467}, -\frac{91}{467}, \frac{49}{467})$ $+ \frac{42}{467}\sqrt{131}e^5 \otimes e_8$	{146789, 2456}
942:87	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{15}e^{12}, \frac{1}{41}\sqrt{255}e^{13}, \frac{7}{41}\sqrt{15}e^{14} + \frac{5}{41}\sqrt{3}e^{26},$ $\frac{1}{41}\sqrt{465}e^{16} + \frac{7}{41}\sqrt{15}e^{23} + \frac{10}{41}\sqrt{3}e^{45}$	$(\frac{4}{41}, -\frac{11}{82}, \frac{8}{41}, -\frac{11}{41}, \frac{27}{82}, -\frac{3}{82}, \frac{12}{41}, -\frac{7}{41}, \frac{5}{82})$ $+ \frac{15}{41}\sqrt{5}e^3 \otimes e_8$	{24589, 468}
942:87	$0, 0, 0, 0, 0, \frac{42}{227}\sqrt{2}e^{12}, \frac{14}{227}\sqrt{177}e^{13}, \frac{28}{227}\sqrt{3}e^{14} + \frac{21}{227}\sqrt{33}e^{26},$ $\frac{7}{227}\sqrt{399}e^{16} + \frac{14}{227}\sqrt{339}e^{23} + \frac{42}{227}\sqrt{19}e^{45}$	$(-\frac{14}{227}, \frac{105}{454}, -\frac{28}{227}, \frac{105}{227}, -\frac{161}{454}, \frac{77}{454}, -\frac{42}{227}, \frac{91}{227}, \frac{49}{454})$ $+ \frac{21}{227}\sqrt{129}e^4 \otimes e_7$	{123469, 1345}
942:87	$0, 0, 0, 0, 0, \frac{12}{443}\sqrt{10}e^{12}, \frac{4}{443}\sqrt{282}e^{13}, \frac{2}{443}\sqrt{1038}e^{14} + \frac{2}{443}\sqrt{849}e^{26},$ $\frac{12}{443}\sqrt{339}e^{16} + \frac{4}{443}\sqrt{1038}e^{23} + \frac{8}{443}\sqrt{78}e^{45}$	$(\frac{7}{443}, -\frac{13}{443}, \frac{14}{443}, -\frac{26}{443}, \frac{27}{443}, -\frac{6}{443}, \frac{21}{443}, -\frac{19}{443}, \frac{1}{443})$ $+ \frac{6}{443}\sqrt{133}e^5 \otimes e_7$	{146789, 2456}
942:87	$0, 0, 0, 0, 0, \frac{48}{193}\sqrt{10}e^{12}, \frac{8}{193}\sqrt{330}e^{13}, \frac{48}{193}\sqrt{26}e^{14} + \frac{120}{193}\sqrt{2}e^{26},$ $\frac{16}{193}\sqrt{15}e^{16} + \frac{112}{193}\sqrt{3}e^{23} + \frac{120}{193}\sqrt{2}e^{45}$	$(-\frac{12}{193}, \frac{56}{193}, -\frac{24}{193}, \frac{112}{193}, -\frac{80}{193}, \frac{44}{193}, -\frac{36}{193}, \frac{100}{193}, \frac{32}{193})$ $+ \frac{48}{193}\sqrt{29}e^4 \otimes e_5$	{158, 567}
942:88	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{16}{131}\sqrt{19}e^{13}, -\frac{4}{131}\sqrt{213}e^{14} + \frac{12}{131}\sqrt{23}e^{26},$ $\frac{4}{131}\sqrt{119}e^{16} + \frac{4}{131}\sqrt{235}e^{24} + \frac{4}{131}\sqrt{122}e^{35}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470}e^2 \otimes e_7$	{12348, 146789, 2456, 34579, 12348, 146789, 2456, 34579}
942:88	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{16}{131}\sqrt{19}e^{13}, \frac{4}{131}\sqrt{213}e^{14} + \frac{12}{131}\sqrt{23}e^{26},$ $\frac{4}{131}\sqrt{119}e^{16} + \frac{4}{131}\sqrt{235}e^{24} + \frac{4}{131}\sqrt{122}e^{35}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470}e^2 \otimes e_7$	{12348, 146789, 2456, 34579, 12348, 146789, 2456, 34579}
942:88	$0, 0, 0, 0, 0, \frac{34}{947}\sqrt{239}e^{12}, \frac{102}{947}\sqrt{34}e^{13}, -\frac{51}{947}\sqrt{47}e^{14} + \frac{51}{947}\sqrt{37}e^{26},$ $\frac{17}{947}\sqrt{645}e^{16} + \frac{17}{947}\sqrt{1335}e^{24} + \frac{170}{947}\sqrt{6}e^{35}$	$(\frac{34}{947}, \frac{34}{947}, -\frac{255}{947}, \frac{68}{947}, \frac{357}{947}, \frac{68}{947}, -\frac{221}{947}, \frac{102}{947}, \frac{102}{947})$ $+ \frac{34}{947}\sqrt{445}e^4 \otimes e_7$	{126789, 1578, 23579, 367, 126789, 1578, 23579, 367}
942:88	$0, 0, 0, 0, 0, \frac{34}{947}\sqrt{239}e^{12}, \frac{102}{947}\sqrt{34}e^{13}, \frac{51}{947}\sqrt{47}e^{14} + \frac{51}{947}\sqrt{37}e^{26},$ $\frac{17}{947}\sqrt{645}e^{16} + \frac{17}{947}\sqrt{1335}e^{24} + \frac{170}{947}\sqrt{6}e^{35}$	$(\frac{34}{947}, \frac{34}{947}, -\frac{255}{947}, \frac{68}{947}, \frac{357}{947}, \frac{68}{947}, -\frac{221}{947}, \frac{102}{947}, \frac{102}{947})$ $+ \frac{34}{947}\sqrt{445}e^4 \otimes e_7$	{126789, 1578, 23579, 367, 126789, 1578, 23579, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:88	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{4}{131}\sqrt{166e^{13}}, -\frac{4}{131}\sqrt{257e^{14}} + \frac{12}{131}\sqrt{23e^{26}},$ $\frac{4}{131}\sqrt{119e^{16}} + \frac{4}{131}\sqrt{235e^{24}} + \frac{8}{131}\sqrt{87e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^5} \otimes e_8$	{128, 136789, 2356, 579, 128, 136789, 2356, 579}
942:88	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{4}{131}\sqrt{166e^{13}}, \frac{4}{131}\sqrt{257e^{14}} + \frac{12}{131}\sqrt{23e^{26}},$ $\frac{4}{131}\sqrt{119e^{16}} + \frac{4}{131}\sqrt{235e^{24}} + \frac{8}{131}\sqrt{87e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^5} \otimes e_8$	{128, 136789, 2356, 579, 128, 136789, 2356, 579}
942:88	$0, 0, 0, 0, 0, \frac{7}{209}\sqrt{310e^{12}}, \frac{7}{209}\sqrt{1070e^{13}}, -\frac{35}{209}\sqrt{10e^{14}} + \frac{7}{209}\sqrt{130e^{26}},$ $\frac{35}{209}\sqrt{10e^{16}} + \frac{14}{209}\sqrt{110e^{24}} + \frac{7}{209}\sqrt{310e^{35}}$	$(\frac{7}{209}, \frac{7}{209}, \frac{7}{11}, \frac{14}{209}, -\frac{112}{209}, \frac{14}{209}, \frac{140}{209}, \frac{21}{209}, \frac{21}{209})$ $+ \frac{28}{209}\sqrt{110e^3} \otimes e_5$	{13, 157, 3678, 568, 13, 157, 3678, 568}
942:88	$0, 0, 0, 0, 0, \frac{7}{209}\sqrt{310e^{12}}, \frac{7}{209}\sqrt{1070e^{13}}, \frac{35}{209}\sqrt{10e^{14}} + \frac{7}{209}\sqrt{130e^{26}},$ $\frac{35}{209}\sqrt{10e^{16}} + \frac{14}{209}\sqrt{110e^{24}} + \frac{7}{209}\sqrt{310e^{35}}$	$(\frac{7}{209}, \frac{7}{209}, \frac{7}{11}, \frac{14}{209}, -\frac{112}{209}, \frac{14}{209}, \frac{140}{209}, \frac{21}{209}, \frac{21}{209})$ $+ \frac{28}{209}\sqrt{110e^3} \otimes e_5$	{13, 157, 3678, 568, 13, 157, 3678, 568}
942:88	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{38e^{12}}, \frac{2}{57}\sqrt{114e^{13}}, -\frac{1}{57}\sqrt{741e^{14}} + \frac{1}{57}\sqrt{893e^{26}},$ $\frac{1}{57}\sqrt{779e^{16}} + \frac{5}{57}\sqrt{19e^{24}} + \frac{2}{57}\sqrt{247e^{35}}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{10}{57}\sqrt{19e^3} \otimes e_8$	{123469, 1345, 24589, 468, 123469, 1345, 24589, 468}
942:88	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{38e^{12}}, \frac{2}{57}\sqrt{114e^{13}}, \frac{1}{57}\sqrt{741e^{14}} + \frac{1}{57}\sqrt{893e^{26}},$ $\frac{1}{57}\sqrt{779e^{16}} + \frac{5}{57}\sqrt{19e^{24}} + \frac{2}{57}\sqrt{247e^{35}}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{10}{57}\sqrt{19e^3} \otimes e_8$	{123469, 1345, 24589, 468, 123469, 1345, 24589, 468}
942:89	$0, 0, 0, 0, 0, \frac{17}{2581}\sqrt{2422e^{14}} + \frac{34}{2581}\sqrt{455e^{26}}, \frac{255}{2581}\sqrt{10e^{16}} + \frac{34}{2581}\sqrt{5434e^{25}} + \frac{34}{2581}\sqrt{790e^{34}}$	$(-\frac{68}{2581}, \frac{221}{2581}, -\frac{357}{2581}, \frac{442}{2581}, -\frac{136}{2581}, \frac{153}{2581}, -\frac{425}{2581}, \frac{374}{2581}, \frac{85}{2581})$ $+ \frac{34}{2581}\sqrt{1254e^5} \otimes e_7$	{126789, 367}
942:89	$0, 0, 0, 0, 0, \frac{13}{349}\sqrt{134e^{12}}, \frac{91}{349}\sqrt{6e^{13}}, \frac{26}{349}\sqrt{37e^{14}} + \frac{26}{349}\sqrt{71e^{26}},$ $\frac{26}{349}\sqrt{39e^{16}} + \frac{65}{349}\sqrt{6e^{25}} + \frac{13}{349}\sqrt{14e^{34}}$	$(-\frac{13}{349}, \frac{65}{349}, -\frac{91}{349}, \frac{130}{349}, -\frac{26}{349}, \frac{52}{349}, -\frac{104}{349}, \frac{117}{349}, \frac{39}{349})$ $+ \frac{130}{349}\sqrt{6e^2} \otimes e_7$	{2456, 34579}
942:89	$0, 0, 0, 0, 0, \frac{41}{3109}\sqrt{670e^{14}} + \frac{82}{3109}\sqrt{667e^{26}}, \frac{41}{3109}\sqrt{2010e^{16}} + \frac{41}{3109}\sqrt{446e^{25}} + \frac{820}{3109}\sqrt{5e^{34}}$	$(\frac{328}{3109}, -\frac{451}{3109}, \frac{1107}{3109}, -\frac{902}{3109}, \frac{656}{3109}, -\frac{123}{3109}, \frac{1435}{3109}, -\frac{574}{3109}, \frac{205}{3109})$ $+ \frac{82}{3109}\sqrt{1338e^3} \otimes e_8$	{1345, 24589}
942:89	$0, 0, 0, 0, 0, \frac{17}{1007}\sqrt{1614e^{12}}, \frac{34}{1007}\sqrt{534e^{13}}, \frac{17}{1007}\sqrt{2298e^{14}} + \frac{306}{1007}e^{26},$ $\frac{289}{1007}\sqrt{6e^{16}} + \frac{17}{1007}\sqrt{1290e^{25}} + \frac{102}{1007}\sqrt{19e^{34}}$	$(-\frac{34}{1007}, \frac{255}{1007}, -\frac{17}{53}, \frac{510}{1007}, -\frac{68}{1007}, \frac{221}{1007}, -\frac{357}{1007}, \frac{476}{1007}, \frac{187}{1007})$ $+ \frac{34}{1007}\sqrt{1290e^4} \otimes e_7$	{178, 2379}
942:89	$0, 0, 0, 0, 0, \frac{11}{733}\sqrt{970e^{14}} + \frac{110}{733}\sqrt{11e^{26}}, \frac{11}{733}\sqrt{246e^{16}} + \frac{22}{733}\sqrt{1110e^{25}} + \frac{22}{733}\sqrt{199e^{34}}$	$(-\frac{22}{733}, \frac{77}{733}, -\frac{121}{733}, \frac{154}{733}, -\frac{44}{733}, \frac{55}{733}, -\frac{143}{733}, \frac{132}{733}, \frac{33}{733})$ $+ \frac{66}{733}\sqrt{37e^2} \otimes e_5$	{1345678, 345}
942:89	$0, 0, 0, 0, 0, \frac{29}{2749}\sqrt{3322e^{12}}, \frac{203}{2749}\sqrt{30e^{13}},$ $\frac{58}{2749}\sqrt{1049e^{14}} + \frac{58}{2749}\sqrt{85e^{26}}, \frac{29}{2749}\sqrt{591e^{16}} + \frac{29}{2749}\sqrt{4686e^{25}} + \frac{29}{2749}\sqrt{2534e^{34}}$	$(\frac{203}{2749}, -\frac{319}{2749}, \frac{725}{2749}, -\frac{638}{2749}, \frac{406}{2749}, -\frac{116}{2749}, \frac{928}{2749}, -\frac{435}{2749}, \frac{87}{2749})$ $+ \frac{174}{2749}\sqrt{142e^5} \otimes e_8$	{126789, 138}
942:90	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{16}{131}\sqrt{19e^{13}}, \frac{24}{131}\sqrt{5e^{16}} - \frac{4}{131}\sqrt{174e^{24}},$ $\frac{8}{131}\sqrt{38e^{14}} + \frac{8}{131}\sqrt{67e^{26}} + \frac{4}{131}\sqrt{122e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^2} \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:90	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{16}{131}\sqrt{19e^{13}}, \frac{24}{131}\sqrt{5e^{16}} + \frac{4}{131}\sqrt{174e^{24}},$ $\frac{8}{131}\sqrt{38e^{14}} + \frac{8}{131}\sqrt{67e^{26}} + \frac{4}{131}\sqrt{122e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^2} \otimes e_7$	{123459, 146789, 2456, 3478, 123459, 146789, 2456, 3478}
942:90	$0, 0, 0, 0, 0, \frac{34}{947}\sqrt{239e^{12}}, \frac{102}{947}\sqrt{34e^{13}}, \frac{51}{947}\sqrt{105e^{16}} - \frac{51}{947}\sqrt{115e^{24}},$ $\frac{17}{947}\sqrt{723e^{14}} + \frac{17}{947}\sqrt{33e^{26}} + \frac{170}{947}\sqrt{6e^{35}}$	$(\frac{34}{947}, \frac{34}{947}, -\frac{255}{947}, \frac{68}{947}, \frac{357}{947}, \frac{68}{947}, -\frac{221}{947}, \frac{102}{947}, \frac{102}{947})$ $+ \frac{34}{947}\sqrt{445e^4} \otimes e_7$	{126789, 179, 2378, 367, 126789, 179, 2378, 367}
942:90	$0, 0, 0, 0, 0, \frac{34}{947}\sqrt{239e^{12}}, \frac{102}{947}\sqrt{34e^{13}}, \frac{51}{947}\sqrt{105e^{16}} + \frac{51}{947}\sqrt{115e^{24}},$ $\frac{17}{947}\sqrt{723e^{14}} + \frac{17}{947}\sqrt{33e^{26}} + \frac{170}{947}\sqrt{6e^{35}}$	$(\frac{34}{947}, \frac{34}{947}, -\frac{255}{947}, \frac{68}{947}, \frac{357}{947}, \frac{68}{947}, -\frac{221}{947}, \frac{102}{947}, \frac{102}{947})$ $+ \frac{34}{947}\sqrt{445e^4} \otimes e_7$	{126789, 179, 2378, 367, 126789, 179, 2378, 367}
942:90	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{4}{131}\sqrt{166e^{13}}, \frac{4}{131}\sqrt{290e^{16}} - \frac{4}{131}\sqrt{174e^{24}},$ $\frac{8}{131}\sqrt{38e^{14}} + \frac{4}{131}\sqrt{202e^{26}} + \frac{8}{131}\sqrt{87e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^5} \otimes e_8$	{128, 13567, 23689, 579, 128, 13567, 23689, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:90	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66e^{12}}, \frac{4}{131}\sqrt{166e^{13}}, \frac{4}{131}\sqrt{290e^{16}} + \frac{4}{131}\sqrt{174e^{24}},$ $\frac{8}{131}\sqrt{38e^{14}} + \frac{4}{131}\sqrt{202e^{26}} + \frac{8}{131}\sqrt{87e^{35}}$	$(\frac{4}{131}, \frac{4}{131}, -\frac{32}{131}, \frac{8}{131}, \frac{44}{131}, \frac{8}{131}, -\frac{28}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{4}{131}\sqrt{470e^5} \otimes e_8$	{128, 13567, 23689, 579, 128, 13567, 23689, 579}
942:90	$0, 0, 0, 0, 0, \frac{7}{209}\sqrt{310e^{12}}, \frac{7}{209}\sqrt{1070e^{13}}, \frac{63}{209}\sqrt{5e^{16}} - \frac{7}{209}\sqrt{285e^{24}},$ $\frac{7}{209}\sqrt{95e^{14}} + \frac{7}{209}\sqrt{285e^{26}} + \frac{7}{209}\sqrt{310e^{35}}$	$(\frac{7}{209}, \frac{7}{209}, \frac{7}{11}, \frac{14}{209}, -\frac{112}{209}, \frac{14}{209}, \frac{140}{209}, \frac{21}{209}, \frac{21}{209})$ $+ \frac{28}{209}\sqrt{110e^3} \otimes e_5$	{12368, 125678, 13, 157, 12368, 125678, 13, 157}
942:90	$0, 0, 0, 0, 0, \frac{7}{209}\sqrt{310e^{12}}, \frac{7}{209}\sqrt{1070e^{13}}, \frac{63}{209}\sqrt{5e^{16}} + \frac{7}{209}\sqrt{285e^{24}},$ $\frac{7}{209}\sqrt{95e^{14}} + \frac{7}{209}\sqrt{285e^{26}} + \frac{7}{209}\sqrt{310e^{35}}$	$(\frac{7}{209}, \frac{7}{209}, \frac{7}{11}, \frac{14}{209}, -\frac{112}{209}, \frac{14}{209}, \frac{140}{209}, \frac{21}{209}, \frac{21}{209})$ $+ \frac{28}{209}\sqrt{110e^3} \otimes e_5$	{12368, 125678, 13, 157, 12368, 125678, 13, 157}
942:90	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{38e^{12}}, \frac{2}{57}\sqrt{114e^{13}}, \frac{1}{57}\sqrt{665e^{16}} - \frac{1}{57}\sqrt{969e^{24}},$ $\frac{1}{57}\sqrt{703e^{14}} + \frac{1}{57}\sqrt{551e^{26}} + \frac{2}{57}\sqrt{247e^{35}}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{10}{57}\sqrt{19e^3} \otimes e_8$	{123469, 145789, 23457, 468, 123469, 145789, 23457, 468}
942:90	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{38e^{12}}, \frac{2}{57}\sqrt{114e^{13}}, \frac{1}{57}\sqrt{665e^{16}} + \frac{1}{57}\sqrt{969e^{24}},$ $\frac{1}{57}\sqrt{703e^{14}} + \frac{1}{57}\sqrt{551e^{26}} + \frac{2}{57}\sqrt{247e^{35}}$	$(0, 0, \frac{1}{3}, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0, 0)$ $+ \frac{10}{57}\sqrt{19e^3} \otimes e_8$	{123469, 145789, 23457, 468, 123469, 145789, 23457, 468}
942:91	$0, 0, 0, 0, 0, \frac{1}{55}\sqrt{23e^{12}}, \frac{2}{55}\sqrt{23e^{13}}, \frac{55}{55}\sqrt{77e^{16}} + \frac{2}{55}\sqrt{19e^{24}},$ $\frac{1}{55}\sqrt{11e^{15}} + \frac{1}{55}\sqrt{59e^{26}} + \frac{1}{55}\sqrt{77e^{34}}$	$(\frac{2}{55}, -\frac{1}{55}, -\frac{4}{55}, \frac{4}{55}, -\frac{5}{55}, \frac{1}{55}, -\frac{2}{55}, \frac{3}{55}, 0)$ $+ \frac{1}{55}\sqrt{103e^2} \otimes e_7$	{123568, 2589}
942:91	$0, 0, 0, 0, 0, \frac{13}{733}\sqrt{30e^{12}}, \frac{26}{733}\sqrt{186e^{13}}, \frac{91}{733}\sqrt{30e^{16}} + \frac{65}{733}\sqrt{30e^{24}},$ $\frac{26}{733}\sqrt{186e^{15}} + \frac{13}{733}\sqrt{762e^{26}} + \frac{91}{733}\sqrt{30e^{34}}$	$(-\frac{130}{733}, \frac{117}{733}, \frac{364}{733}, -\frac{260}{733}, \frac{234}{733}, -\frac{13}{733}, \frac{234}{733}, -\frac{143}{733}, \frac{104}{733})$ $+ \frac{13}{733}\sqrt{3738e^3} \otimes e_8$	{145789, 23457}
942:91	$0, 0, 0, 0, 0, \frac{23}{2113}\sqrt{3722e^{12}}, \frac{92}{2113}\sqrt{57e^{13}},$ $\frac{92}{2113}\sqrt{230e^{16}} + \frac{23}{2113}\sqrt{3166e^{24}}, \frac{69}{2113}\sqrt{318e^{15}} + \frac{69}{2113}\sqrt{14e^{26}} + \frac{23}{2113}\sqrt{2422e^{34}}$	$(\frac{299}{2113}, -\frac{115}{2113}, -\frac{529}{2113}, \frac{598}{2113}, -\frac{230}{2113}, \frac{184}{2113}, -\frac{230}{2113}, \frac{483}{2113}, \frac{69}{2113})$ $+ \frac{23}{2113}\sqrt{3774e^1} \otimes e_5$	{234568, 345}
942:91	$0, 0, 0, 0, 0, \frac{34}{505}\sqrt{130e^{12}}, \frac{34}{505}\sqrt{165e^{13}}, \frac{17}{505}\sqrt{497e^{16}} + \frac{34}{505}\sqrt{191e^{24}},$ $\frac{153}{505}\sqrt{3e^{15}} + \frac{17}{505}\sqrt{69e^{26}} + \frac{238}{505}e^{34}$	$(\frac{221}{1010}, -\frac{34}{505}, -\frac{357}{1010}, \frac{221}{505}, -\frac{68}{505}, \frac{153}{1010}, \frac{68}{505}, \frac{187}{505}, \frac{17}{202})$ $- \frac{17}{505}\sqrt{903e^4} \otimes e_7$	{126789, 179, 2378, 367}
942:91	$0, 0, 0, 0, 0, \frac{34}{505}\sqrt{130e^{12}}, \frac{34}{505}\sqrt{165e^{13}}, \frac{17}{505}\sqrt{497e^{16}} + \frac{34}{505}\sqrt{191e^{24}},$ $\frac{153}{505}\sqrt{3e^{15}} + \frac{17}{505}\sqrt{69e^{26}} + \frac{238}{505}e^{34}$	$(\frac{221}{1010}, -\frac{34}{505}, -\frac{357}{1010}, \frac{221}{505}, -\frac{68}{505}, \frac{153}{1010}, -\frac{68}{505}, \frac{187}{505}, \frac{17}{202})$ $+ \frac{17}{505}\sqrt{903e^4} \otimes e_7$	{126789, 179, 2378, 367}
942:91	$0, 0, 0, 0, 0, \frac{7}{242}\sqrt{538e^{12}}, \frac{35}{242}\sqrt{6e^{13}}, \frac{7}{242}\sqrt{142e^{16}} + \frac{7}{242}\sqrt{794e^{24}},$ $\frac{7}{121}\sqrt{186e^{15}} + \frac{49}{242}\sqrt{6e^{26}} + \frac{7}{121}\sqrt{110e^{34}}$	$(-\frac{35}{242}, \frac{14}{121}, \frac{91}{242}, -\frac{35}{121}, \frac{28}{121}, -\frac{7}{242}, \frac{28}{121}, -\frac{21}{121}, \frac{21}{242})$ $+ \frac{7}{242}\sqrt{894e^5} \otimes e_8$	{126789, 2378}
942:92	$0, 0, 0, 0, 0, \frac{204}{1135}\sqrt{10e^{12}}, \frac{17}{1135}\sqrt{1158e^{13}} + \frac{51}{1135}\sqrt{326e^{24}},$ $\frac{34}{1135}\sqrt{141e^{16}} + \frac{34}{227}\sqrt{3e^{23}}, \frac{51}{1135}\sqrt{358e^{15}} + \frac{51}{1135}\sqrt{34e^{26}}$	$(\frac{153}{1135}, -\frac{187}{1135}, \frac{306}{1135}, \frac{646}{1135}, -\frac{374}{1135}, -\frac{34}{1135}, \frac{459}{1135}, \frac{119}{1135}, -\frac{221}{1135})$ $+ \frac{918}{1135}\sqrt{2e^4} \otimes e_9$	{124568, 25789}
942:92	$0, 0, 0, 0, 0, \frac{44}{205}\sqrt{10e^{12}}, \frac{11}{205}\sqrt{46e^{13}} + \frac{11}{205}\sqrt{202e^{24}},$ $\frac{11}{41}\sqrt{2e^{16}} + \frac{11}{205}\sqrt{46e^{23}}, \frac{33}{205}\sqrt{26e^{15}} + \frac{88}{205}\sqrt{2e^{26}}$	$(-\frac{11}{205}, \frac{44}{205}, -\frac{22}{205}, -\frac{77}{205}, \frac{88}{205}, \frac{33}{205}, -\frac{33}{205}, \frac{22}{205}, \frac{77}{205})$ $+ \frac{11}{205}\sqrt{362e^5} \otimes e_7$	{126789, 1479}
942:92	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3e^{12}}, \frac{14}{25}e^{13} + \frac{16}{25}e^{24}, \frac{4}{25}\sqrt{11e^{16}} + \frac{2}{25}\sqrt{42e^{23}},$ $\frac{2}{25}\sqrt{33e^{15}} + \frac{2}{25}\sqrt{58e^{26}}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{91e^4} \otimes e_8$	{234, 368}
942:92	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{6e^{12}}, \frac{3}{25}\sqrt{14e^{13}} + \frac{1}{25}\sqrt{78e^{24}},$ $\frac{2}{25}\sqrt{15e^{16}} + \frac{2}{25}\sqrt{41e^{23}}, \frac{1}{25}\sqrt{190e^{15}} + \frac{1}{25}\sqrt{158e^{26}}$	$(-\frac{1}{25}, \frac{3}{25}, -\frac{2}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{2}{25}, -\frac{3}{25}, \frac{1}{25}, \frac{1}{5})$ $+ \frac{2}{25}\sqrt{58e^5} \otimes e_8$	{134789, 368}
942:92	$0, 0, 0, 0, 0, \frac{11}{205}\sqrt{202e^{12}}, \frac{11}{205}\sqrt{46e^{13}} + \frac{44}{205}\sqrt{10e^{24}},$ $\frac{11}{41}\sqrt{2e^{16}} + \frac{11}{205}\sqrt{46e^{23}}, \frac{88}{205}\sqrt{2e^{15}} + \frac{33}{205}\sqrt{26e^{26}}$	$(-\frac{11}{205}, \frac{44}{205}, -\frac{22}{205}, -\frac{77}{205}, \frac{88}{205}, \frac{33}{205}, -\frac{33}{205}, \frac{22}{205}, \frac{77}{205})$ $+ \frac{11}{205}\sqrt{362e^2} \otimes e_4$	{12359, 1345689}
942:92	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3e^{12}}, \frac{2}{25}\sqrt{42e^{13}} + \frac{6}{25}\sqrt{3e^{24}},$ $\frac{2}{25}\sqrt{47e^{16}} + \frac{2}{25}\sqrt{42e^{23}}, \frac{2}{25}\sqrt{33e^{15}} + \frac{2}{25}\sqrt{33e^{26}}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{91e^3} \otimes e_9$	{2589, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:92	$0, 0, 0, 0, 0, \frac{16}{25}e^{12}, \frac{2}{25}\sqrt{42}e^{13} + \frac{6}{25}\sqrt{3}e^{24}, \frac{4}{25}\sqrt{11}e^{16} + \frac{14}{25}e^{23},$ $\frac{2}{25}\sqrt{58}e^{15} + \frac{2}{25}\sqrt{33}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{91}e^1 \otimes e_5$	{2345678, 357}
942:93	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{58}e^{13} + \frac{2}{25}\sqrt{33}e^{24}, \frac{16}{25}e^{16} - \frac{14}{25}e^{25},$ $\frac{2}{25}\sqrt{42}e^{15} + \frac{6}{25}\sqrt{3}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{91}e^1 \otimes e_3$	{12458, 156, 2345689, 359, 12458, 156, 2345689, 359}
942:93	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{58}e^{13} + \frac{2}{25}\sqrt{33}e^{24}, \frac{16}{25}e^{16} + \frac{14}{25}e^{25},$ $\frac{2}{25}\sqrt{42}e^{15} + \frac{6}{25}\sqrt{3}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{91}e^1 \otimes e_3$	{12458, 156, 2345689, 359, 12458, 156, 2345689, 359}
942:93	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{47}e^{12}, \frac{2}{25}\sqrt{33}e^{13} + \frac{2}{25}\sqrt{33}e^{24},$ $\frac{6}{25}\sqrt{3}e^{16} - \frac{2}{25}\sqrt{42}e^{25}, \frac{2}{25}\sqrt{42}e^{15} + \frac{6}{25}\sqrt{3}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{91}e^5 \otimes e_7$	{126789, 1479, 3467, 126789, 1479, 3467}
942:93	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{47}e^{12}, \frac{2}{25}\sqrt{33}e^{13} + \frac{2}{25}\sqrt{33}e^{24},$ $\frac{6}{25}\sqrt{3}e^{16} + \frac{2}{25}\sqrt{42}e^{25}, \frac{2}{25}\sqrt{42}e^{15} + \frac{6}{25}\sqrt{3}e^{26}$	$(\frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{91}e^5 \otimes e_7$	{126789, 1479, 3467, 126789, 1479, 3467}
942:113	$0, 0, 0, 0, 0, \frac{2}{225}\sqrt{2010}e^{12}, \frac{2}{225}\sqrt{3886}e^{13}, \frac{2}{225}\sqrt{938}e^{16}, \frac{2}{225}\sqrt{3886}e^{17}$	$(\frac{58}{225}, -\frac{76}{225}, -\frac{32}{225}, \frac{31}{75}, -\frac{41}{225}, -\frac{2}{25}, \frac{26}{225}, \frac{8}{45}, \frac{28}{75})$ $+ \frac{134}{225}e^4 \otimes e_5 + \frac{4}{225}\sqrt{2211}e^1 \otimes e_2$	{13489, 13589, 1478, 1578, 23479, 23579, 24, 25}
942:113	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{322}e^{12}, \frac{1}{28}\sqrt{14}e^{13}, \frac{1}{28}\sqrt{70}e^{16}, \frac{1}{56}\sqrt{210}e^{17}$	$(-\frac{1}{16}, \frac{5}{28}, \frac{3}{56}, -\frac{5}{16}, \frac{17}{56}, \frac{13}{112}, -\frac{1}{112}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{21}e^5 \otimes e_8 + \frac{1}{56}\sqrt{462}e^2 \otimes e_9 + \frac{3}{56}\sqrt{70}e^1 \otimes e_4$	{1278, 13569, 2468, 34579}
942:113	$0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{320682}e^{12}, \frac{1}{1475}\sqrt{450718}e^{13}, \frac{1}{1475}\sqrt{40774}e^{16},$ $\frac{1}{1475}\sqrt{662302}e^{17}$	$(\frac{217}{1475}, -\frac{334}{1475}, -\frac{272}{1475}, \frac{713}{1475}, \frac{137}{1475}, -\frac{117}{1475}, -\frac{11}{295}, \frac{4}{59}, \frac{162}{1475})$ $+ \frac{24}{1475}\sqrt{1102}e^4 \otimes e_9 + \frac{2}{1475}\sqrt{209931}e^1 \otimes e_2$	{1359, 139, 1457, 147, 235789, 23789, 2458, 248}
942:113	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{1}{38}\sqrt{517}e^{16}, \frac{1}{38}\sqrt{470}e^{17}$	$(-\frac{5}{38}, \frac{11}{19}, \frac{23}{76}, -\frac{25}{38}, \frac{13}{76}, \frac{17}{38}, \frac{13}{76}, \frac{6}{19}, \frac{3}{76})$ $+ \frac{3}{38}\sqrt{329}e^2 \otimes e_4$	{1235789, 123789, 1258, 128, 1345679, 134679, 1456, 146, 235689, 23689, 25678, 2678, 3459, 349, 457, 47}
942:113	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{53}e^{12}, \frac{1}{71}\sqrt{53}e^{13}, \frac{2}{71}\sqrt{265}e^{16}, \frac{2}{71}\sqrt{265}e^{17}$	$(-\frac{11}{71}, \frac{17}{142}, \frac{17}{142}, \frac{79}{142}, \frac{79}{142}, -\frac{5}{142}, -\frac{5}{142}, -\frac{27}{142}, -\frac{27}{142})$ $+ \frac{3}{71}\sqrt{371}e^4 \otimes e_8 + \frac{3}{71}\sqrt{371}e^5 \otimes e_9$	{1234567, 12469, 189, 2345, 2479, 6789}
942:113	$0, 0, 0, 0, 0, \frac{10}{247}\sqrt{163}e^{12}, \frac{1}{247}\sqrt{7498}e^{13}, \frac{1}{247}\sqrt{15322}e^{16},$ $\frac{1}{247}\sqrt{4890}e^{17}$	$(-\frac{61}{247}, \frac{92}{247}, \frac{51}{247}, \frac{7}{13}, \frac{28}{247}, \frac{31}{247}, -\frac{10}{247}, -\frac{30}{247}, -\frac{71}{247})$ $+ \frac{1}{247}\sqrt{34230}e^4 \otimes e_8 + \frac{2}{247}\sqrt{9291}e^2 \otimes e_9$	{123578, 12378, 14569, 1469, 23568, 2368, 4579, 479}
942:113	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{1}{5}\sqrt{2}e^{13}, \frac{1}{15}\sqrt{30}e^{16}, \frac{1}{15}\sqrt{6}e^{17}$	$(\frac{1}{15}, 0, -\frac{2}{15}, -\frac{1}{5}, \frac{1}{3}, \frac{1}{15}, -\frac{1}{15}, \frac{2}{15}, 0)$ $+ \frac{2}{15}\sqrt{6}e^2 \otimes e_4 + \frac{2}{15}\sqrt{6}e^5 \otimes e_8 + \frac{2}{5}e^1 \otimes e_3$	{128, 1456, 23689, 3459}
942:113	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{2010}e^{12}, \frac{1}{79}\sqrt{3886}e^{13}, \frac{1}{79}\sqrt{938}e^{16}, \frac{1}{79}\sqrt{3886}e^{17}$	$(\frac{29}{79}, -\frac{38}{79}, -\frac{16}{79}, \frac{13}{79}, \frac{13}{79}, -\frac{9}{79}, \frac{13}{79}, \frac{20}{79}, \frac{42}{79})$ $+ \frac{2}{79}\sqrt{2211}e^1 \otimes e_2$	{134589, 13489, 1389, 14578, 1478, 178, 2, 234579, 23479, 2379, 24, 245}
942:113	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{714}e^{12}, \frac{4}{101}\sqrt{102}e^{13}, \frac{1}{101}\sqrt{2346}e^{16}, \frac{4}{101}\sqrt{102}e^{17}$	$(\frac{16}{101}, -\frac{35}{101}, -\frac{5}{101}, \frac{48}{101}, \frac{11}{101}, -\frac{19}{101}, \frac{11}{101}, -\frac{3}{101}, \frac{27}{101})$ $+ \frac{1}{101}\sqrt{3774}e^4 \otimes e_8 + \frac{1}{101}\sqrt{5406}e^1 \otimes e_2$	{13589, 1389, 1578, 178, 234579, 23479, 24, 245}
942:113	$0, 0, 0, 0, 0, \frac{1}{64}\sqrt{638}e^{12}, \frac{1}{32}\sqrt{66}e^{13}, \frac{1}{32}\sqrt{66}e^{16}, \frac{1}{64}\sqrt{638}e^{17}$	$(-\frac{5}{128}, \frac{9}{32}, \frac{1}{64}, -\frac{49}{128}, \frac{7}{64}, \frac{31}{128}, -\frac{3}{128}, \frac{13}{64}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1122}e^2 \otimes e_9 + \frac{3}{64}\sqrt{154}e^1 \otimes e_4$	{12578, 1278, 13569, 1369, 24568, 2468, 34579, 3479}
942:113	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{253}e^{12}, \frac{2}{55}\sqrt{253}e^{13}, \frac{2}{55}\sqrt{253}e^{16}, \frac{2}{55}\sqrt{253}e^{17}$	$(\frac{1}{5}, -\frac{1}{55}, -\frac{1}{55}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{21}{55}, \frac{21}{55})$ $+ \frac{6}{55}\sqrt{115}e^1 \otimes e_4$	{123589, 12389, 12578, 1278, 1567, 167, 23456789, 2346789, 24568, 2468, 4, 45}
942:113	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{890}e^{12}, \frac{1}{123}\sqrt{267}e^{13}, \frac{1}{123}\sqrt{267}e^{16}, \frac{2}{123}\sqrt{890}e^{17}$	$(-\frac{23}{123}, \frac{39}{82}, \frac{31}{246}, \frac{39}{82}, -\frac{61}{246}, \frac{71}{246}, -\frac{5}{82}, \frac{25}{246}, -\frac{61}{246})$ $+ \frac{1}{123}\sqrt{11481}e^2 \otimes e_9 + \frac{89}{123}e^4 \otimes e_5$	{12347, 12357, 14689, 15689, 2346, 2356, 4789, 5789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:113	$0, 0, 0, 0, 0, \frac{20}{457}\sqrt{82}e^{12}, \frac{1}{457}\sqrt{9430}e^{13}, \frac{1}{457}\sqrt{56170}e^{16}, \frac{1}{457}\sqrt{9430}e^{17}$	$(\frac{23}{457}, -\frac{28}{457}, \frac{29}{457}, \frac{223}{457}, -\frac{182}{457}, -\frac{5}{457}, \frac{52}{457}, \frac{18}{457}, \frac{75}{457})$ $+ \frac{3}{457}\sqrt{7790}e^4 \otimes e_8 + \frac{6}{457}\sqrt{2665}e^1 \otimes e_5$	{12389, 1278, 13469, 1467, 2356789, 2568, 34579, 45}
942:113	$0, 0, 0, 0, 0, \frac{1}{247}\sqrt{15322}e^{12}, \frac{1}{247}\sqrt{4890}e^{13}, \frac{10}{247}\sqrt{163}e^{16}, \frac{1}{247}\sqrt{7498}e^{17}$	$(-\frac{61}{247}, \frac{86}{247}, \frac{127}{247}, -\frac{77}{247}, \frac{28}{247}, \frac{25}{247}, \frac{66}{247}, -\frac{36}{247}, \frac{5}{247})$ $+ \frac{1}{247}\sqrt{34230}e^2 \otimes e_4 + \frac{2}{247}\sqrt{9291}e^3 \otimes e_8$	{125789, 12789, 13456, 1346, 25689, 2689, 3457, 347}
942:113	$0, 0, 0, 0, 0, \frac{1}{38}\sqrt{517}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{2}{19}\sqrt{94}e^{16}, \frac{1}{38}\sqrt{470}e^{17}$	$(-\frac{5}{38}, \frac{1}{38}, \frac{23}{76}, 1, \frac{13}{76}, -\frac{2}{19}, \frac{13}{76}, -\frac{9}{38}, \frac{3}{76})$ $+ \frac{3}{38}\sqrt{329}e^4 \otimes e_8$	{1235789, 123789, 1258, 128, 1345679, 134679, 1456, 146, 235689, 23689, 25678, 2678, 3459, 349, 457, 47}
942:113	$0, 0, 0, 0, 0, \frac{10}{1529}\sqrt{4910}e^{12}, \frac{12}{1529}\sqrt{1473}e^{13}, \frac{14}{1529}\sqrt{1473}e^{16}, \frac{7}{1529}\sqrt{4910}e^{17}$	$(\frac{8}{139}, \frac{24}{139}, -\frac{403}{1529}, \frac{146}{1529}, \frac{146}{1529}, \frac{32}{139}, -\frac{315}{1529}, \frac{40}{139}, -\frac{227}{1529})$ $+ \frac{2}{1529}\sqrt{151719}e^2 \otimes e_9 + \frac{3}{1529}\sqrt{83470}e^1 \otimes e_3$	{14569, 1469, 169, 234568, 23468, 2368}
942:113	$0, 0, 0, 0, 0, \frac{3}{674}\sqrt{4117}e^{12}, \frac{24}{337}\sqrt{23}e^{13}, \frac{15}{337}\sqrt{23}e^{16}, \frac{3}{674}\sqrt{8970}e^{17}$	$(\frac{61}{674}, -\frac{73}{337}, -\frac{147}{1348}, \frac{183}{674}, \frac{511}{1348}, -\frac{85}{674}, -\frac{25}{1348}, -\frac{12}{337}, \frac{97}{1348})$ $+ \frac{3}{337}\sqrt{3335}e^1 \otimes e_2 + \frac{3}{674}\sqrt{5911}e^4 \otimes e_8 + \frac{3}{674}\sqrt{9246}e^5 \otimes e_9$	{1389, 1578, 23479, 245}
942:113	$0, 0, 0, 0, 0, \frac{30}{3329}\sqrt{1406}e^{12}, \frac{12}{3329}\sqrt{4958}e^{13}, \frac{12}{3329}\sqrt{8362}e^{16}, \frac{6}{3329}\sqrt{8510}e^{17}$	$(\frac{73}{3329}, \frac{219}{3329}, -\frac{593}{3329}, \frac{246}{3329}, \frac{1031}{3329}, \frac{292}{3329}, -\frac{520}{3329}, \frac{365}{3329}, -\frac{447}{3329})$ $+ \frac{30}{3329}\sqrt{2035}e^1 \otimes e_3 + \frac{6}{3329}\sqrt{29045}e^5 \otimes e_8 + \frac{6}{3329}\sqrt{34151}e^2 \otimes e_9$	{14569, 1569, 23468, 2368}
942:113	$0, 0, 0, 0, 0, \frac{1}{457}\sqrt{56170}e^{12}, \frac{1}{457}\sqrt{9430}e^{13}, \frac{20}{457}\sqrt{82}e^{16}, \frac{1}{457}\sqrt{9430}e^{17}$	$(\frac{23}{457}, \frac{86}{457}, \frac{29}{457}, -\frac{182}{457}, -\frac{119}{457}, \frac{109}{457}, \frac{52}{457}, \frac{132}{457}, \frac{75}{457})$ $+ \frac{3}{457}\sqrt{7790}e^2 \otimes e_5 + \frac{6}{457}\sqrt{2665}e^1 \otimes e_4$	{12389, 1278, 13569, 1567, 2346789, 2468, 34579, 45}
942:113	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{1}{71}\sqrt{53}e^{13}, \frac{1}{71}\sqrt{53}e^{16}, \frac{2}{71}\sqrt{265}e^{17}$	$(-\frac{11}{71}, \frac{59}{142}, \frac{17}{142}, \frac{79}{142}, -\frac{47}{142}, \frac{37}{142}, -\frac{5}{142}, \frac{15}{142}, -\frac{27}{142})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_5 + \frac{3}{71}\sqrt{371}e^4 \otimes e_9$	{12347, 129, 1345678, 15689, 2346, 2679, 3458, 5789}
942:113	$0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{3}{307}\sqrt{935}e^{13}, \frac{3}{307}\sqrt{935}e^{16}, \frac{6}{307}\sqrt{187}e^{17}$	$(-\frac{71}{307}, \frac{187}{614}, \frac{209}{614}, -\frac{119}{614}, \frac{231}{614}, \frac{45}{614}, \frac{67}{614}, -\frac{97}{614}, -\frac{75}{614})$ $+ \frac{12}{307}\sqrt{221}e^3 \otimes e_8 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4 + \frac{15}{307}\sqrt{119}e^5 \otimes e_9$	{12578, 13469, 2568, 3479}
942:113	$0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{662302}e^{12}, \frac{1}{1475}\sqrt{320682}e^{13}, \frac{1}{1475}\sqrt{450718}e^{16}, \frac{1}{1475}\sqrt{40774}e^{17}$	$(\frac{217}{1475}, \frac{112}{1475}, -\frac{334}{1475}, -\frac{439}{1475}, \frac{137}{1475}, \frac{329}{1475}, -\frac{117}{1475}, \frac{546}{1475}, \frac{4}{59})$ $+ \frac{24}{1475}\sqrt{1102}e^2 \otimes e_4 + \frac{2}{1475}\sqrt{209931}e^1 \otimes e_3$	{1258, 128, 1456, 146, 235689, 23689, 3459, 349}
942:113	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{2}{157}\sqrt{267}e^{16}, \frac{4}{157}\sqrt{890}e^{17}$	$(-\frac{46}{157}, \frac{117}{157}, \frac{31}{157}, \frac{28}{157}, \frac{28}{157}, \frac{71}{157}, -\frac{15}{157}, \frac{25}{157}, -\frac{61}{157})$ $+ \frac{2}{157}\sqrt{11481}e^2 \otimes e_9$	{123457, 12347, 1237, 145689, 14689, 1689, 23456, 2346, 236, 45789, 4789, 789}
942:113	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{16}, \frac{1}{71}\sqrt{53}e^{17}$	$(-\frac{11}{71}, \frac{59}{142}, \frac{17}{142}, -\frac{47}{142}, -\frac{47}{142}, \frac{37}{142}, \frac{37}{142}, \frac{15}{142}, \frac{15}{142})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 + \frac{3}{71}\sqrt{371}e^3 \otimes e_5$	{123, 12579, 1456789, 2367, 2569, 4589}
942:113	$0, 0, 0, 0, 0, \frac{20}{3549}\sqrt{4910}e^{12}, \frac{8}{1183}\sqrt{1473}e^{13}, \frac{4}{507}\sqrt{1473}e^{16}, \frac{2}{507}\sqrt{4910}e^{17}$	$(\frac{176}{3549}, \frac{176}{1183}, -\frac{62}{273}, -\frac{199}{3549}, \frac{261}{1183}, \frac{704}{3549}, -\frac{30}{169}, \frac{880}{3549}, -\frac{454}{3549})$ $+ \frac{2}{1183}\sqrt{83470}e^1 \otimes e_3 + \frac{4}{3549}\sqrt{151719}e^2 \otimes e_9 + \frac{982}{3549}e^5 \otimes e_4$	{1469, 1569, 23468, 23568}
942:113	$0, 0, 0, 0, 0, \frac{3}{31}\sqrt{38}e^{12}, \frac{1}{31}\sqrt{190}e^{13}, \frac{3}{31}\sqrt{38}e^{16}, \frac{1}{31}\sqrt{190}e^{17}$	$(-\frac{5}{31}, \frac{8}{31}, \frac{8}{31}, \frac{17}{31}, -\frac{11}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{2}{31}, -\frac{2}{31})$ $+ \frac{2}{31}\sqrt{133}e^2 \otimes e_5 + \frac{2}{31}\sqrt{133}e^4 \otimes e_8$	{123789, 128, 1345679, 1456, 23689, 2678, 3459, 457}
942:113	$0, 0, 0, 0, 0, \frac{3}{674}\sqrt{8970}e^{12}, \frac{3}{674}\sqrt{4117}e^{13}, \frac{24}{337}\sqrt{23}e^{16}, \frac{15}{337}\sqrt{23}e^{17}$	$(\frac{61}{674}, \frac{121}{1348}, -\frac{73}{337}, -\frac{293}{1348}, \frac{183}{674}, \frac{243}{1348}, -\frac{85}{674}, \frac{365}{1348}, -\frac{12}{337})$ $+ \frac{3}{337}\sqrt{3335}e^1 \otimes e_3 + \frac{3}{674}\sqrt{5911}e^5 \otimes e_9 + \frac{3}{674}\sqrt{9246}e^2 \otimes e_4$	{1289, 1469, 23568, 345}
942:113	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{22}e^{12}, \frac{4}{49}\sqrt{22}e^{13}, \frac{4}{49}\sqrt{22}e^{16}, \frac{4}{49}\sqrt{22}e^{17}$	$(-\frac{16}{49}, \frac{22}{49}, \frac{22}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{10}{49}, -\frac{10}{49})$ $+ \frac{4}{49}\sqrt{86}e^2 \otimes e_9 + \frac{4}{49}\sqrt{86}e^3 \otimes e_8$	{124578, 12478, 1278, 24568, 2468, 268}
942:113	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{22}e^{12}, \frac{4}{49}\sqrt{22}e^{13}, \frac{4}{49}\sqrt{22}e^{16}, \frac{4}{49}\sqrt{22}e^{17}$	$(-\frac{16}{49}, \frac{22}{49}, \frac{22}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{10}{49}, -\frac{10}{49})$ $+ \frac{4}{49}\sqrt{86}e^2 \otimes e_9 - \frac{4}{49}\sqrt{86}e^3 \otimes e_8$	{124578, 12478, 1278, 24568, 2468, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:113	$0, 0, 0, 0, 0, \frac{4}{65}\sqrt{22}e^{12}, \frac{4}{65}\sqrt{22}e^{13}, \frac{4}{65}\sqrt{22}e^{16}, \frac{4}{65}\sqrt{22}e^{17}$	$(-\frac{16}{65}, \frac{22}{65}, \frac{22}{65}, -\frac{2}{13}, \frac{22}{65}, \frac{6}{65}, \frac{6}{65}, -\frac{2}{13}, -\frac{2}{13})$ $+\frac{32}{65}e^5 \otimes e_4 + \frac{4}{65}\sqrt{86}e^2 \otimes e_9 + \frac{4}{65}\sqrt{86}e^3 \otimes e_8$	{12478, 12578, 2468, 2568}
942:113	$0, 0, 0, 0, 0, \frac{4}{65}\sqrt{22}e^{12}, \frac{4}{65}\sqrt{22}e^{13}, \frac{4}{65}\sqrt{22}e^{16}, \frac{4}{65}\sqrt{22}e^{17}$	$(-\frac{16}{65}, \frac{22}{65}, \frac{22}{65}, -\frac{2}{13}, \frac{22}{65}, \frac{6}{65}, \frac{6}{65}, -\frac{2}{13}, -\frac{2}{13})$ $+\frac{32}{65}e^5 \otimes e_4 + \frac{4}{65}\sqrt{86}e^2 \otimes e_9 - \frac{4}{65}\sqrt{86}e^3 \otimes e_8$	{12478, 12578, 2468, 2568}
942:113	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{82}e^{12}, \frac{2}{51}\sqrt{82}e^{13}, \frac{2}{51}\sqrt{82}e^{16}, \frac{2}{51}\sqrt{82}e^{17}$	$(\frac{2}{51}, \frac{8}{51}, \frac{8}{51}, 1, -\frac{31}{51}, \frac{10}{51}, \frac{10}{51}, \frac{4}{17}, \frac{4}{17})$ $+\frac{82}{51}e^4 \otimes e_5$	{123489, 123589, 12478, 12578, 1467, 1567, 2346789, 2356789, 2468, 2568, 4, 5}
942:114	$0, 0, 0, 0, 0, \frac{2}{2201}\sqrt{184462}e^{12}, \frac{2}{2201}\sqrt{37759}e^{13}, \frac{2}{2201}\sqrt{136799}e^{26}, \frac{1}{2201}\sqrt{662330}e^{17}$	$(\frac{96}{2201}, \frac{288}{2201}, -\frac{523}{2201}, \frac{230}{2201}, \frac{230}{2201}, \frac{384}{2201}, -\frac{427}{2201}, \frac{672}{2201}, -\frac{331}{2201})$ $+\frac{4}{2201}\sqrt{84803}e^2 \otimes e_9 + \frac{5}{2201}\sqrt{43330}e^1 \otimes e_3$	{145689, 14689, 1689, 23456, 2346, 236}
942:114	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{185}e^{12}, \frac{1}{54}\sqrt{814}e^{13}, \frac{1}{27}\sqrt{185}e^{26}, \frac{1}{54}\sqrt{222}e^{17}$	$(-\frac{5}{54}, -\frac{1}{54}, \frac{13}{36}, \frac{5}{9}, -\frac{35}{108}, -\frac{1}{9}, \frac{29}{108}, -\frac{7}{54}, \frac{19}{108})$ $+\frac{1}{54}\sqrt{1739}e^4 \otimes e_8 + \frac{2}{27}\sqrt{111}e^3 \otimes e_5$	{123469, 124567, 1349, 1457, 23789, 258, 36789, 568}
942:114	$0, 0, 0, 0, 0, \frac{2}{4213}\sqrt{204270}e^{12}, \frac{8}{4213}\sqrt{20427}e^{13}, \frac{2}{4213}\sqrt{741562}e^{26}, \frac{6}{4213}\sqrt{40854}e^{17}$	$(-\frac{1020}{4213}, \frac{584}{4213}, \frac{126}{383}, -\frac{17}{383}, \frac{1051}{4213}, -\frac{436}{4213}, \frac{366}{4213}, \frac{148}{4213}, -\frac{654}{4213})$ $+\frac{1238}{4213}e^5 \otimes e_4 + \frac{2}{4213}\sqrt{917358}e^3 \otimes e_8 + \frac{8}{4213}\sqrt{64995}e^2 \otimes e_9$	{12478, 12578, 3479, 3579}
942:114	$0, 0, 0, 0, 0, \frac{7}{81}\sqrt{78}e^{12}, \frac{2}{81}\sqrt{91}e^{13}, \frac{1}{81}\sqrt{910}e^{26}, \frac{2}{81}\sqrt{910}e^{17}$	$(\frac{14}{27}, -\frac{11}{81}, -\frac{49}{81}, \frac{5}{27}, \frac{5}{27}, \frac{31}{81}, -\frac{7}{81}, \frac{20}{81}, \frac{35}{81})$ $+\frac{2}{81}\sqrt{3003}e^1 \otimes e_3$	{124589, 12489, 1289, 145689, 14689, 1689, 23456, 2346, 236, 3, 34, 345}
942:114	$0, 0, 0, 0, 0, \frac{1}{1539}\sqrt{551190}e^{12}, \frac{1}{1539}\sqrt{299770}e^{13}, \frac{2}{1539}\sqrt{157621}e^{26}, \frac{8}{1539}\sqrt{967}e^{17}$	$(-\frac{73}{513}, \frac{367}{1539}, \frac{595}{1539}, -\frac{200}{513}, -\frac{124}{513}, \frac{148}{1539}, \frac{376}{1539}, \frac{515}{1539}, \frac{157}{1539})$ $+\frac{1}{1539}\sqrt{1084974}e^3 \otimes e_5 + \frac{1}{1539}\sqrt{1525926}e^2 \otimes e_4$	{1238, 125789, 13468, 1456789, 2367, 2569, 347, 459}
942:114	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{186}e^{12}, \frac{2}{33}\sqrt{186}e^{13}, \frac{1}{33}\sqrt{682}e^{26}, \frac{1}{33}\sqrt{186}e^{17}$	$(-\frac{2}{11}, -\frac{2}{33}, \frac{7}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{8}{33}, \frac{5}{11}, -\frac{10}{33}, \frac{3}{11})$ $+\frac{1}{11}\sqrt{186}e^3 \otimes e_8$	{1234569, 123469, 12369, 13459, 1349, 139, 2458, 248, 28, 4568, 468, 68}
942:114	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{51}e^{12}, \frac{1}{14}\sqrt{102}e^{13}, \frac{1}{56}\sqrt{357}e^{26}, \frac{1}{14}\sqrt{102}e^{17}$	$(\frac{2}{7}, -\frac{1}{56}, -\frac{11}{112}, -\frac{5}{8}, \frac{3}{16}, \frac{15}{56}, \frac{3}{16}, \frac{1}{4}, \frac{53}{112})$ $+\frac{1}{56}\sqrt{4641}e^1 \otimes e_4$	{123589, 12389, 12578, 1278, 135689, 13689, 15678, 1678, 2345679, 234679, 2456, 246, 34579, 3479, 4, 45}
942:114	$0, 0, 0, 0, 0, \frac{3}{571}\sqrt{8194}e^{12}, \frac{4}{571}\sqrt{1687}e^{13}, \frac{2}{571}\sqrt{12773}e^{26}, \frac{4}{571}\sqrt{1687}e^{17}$	$(\frac{56}{571}, \frac{59}{571}, \frac{12}{571}, -\frac{185}{571}, -\frac{182}{571}, \frac{115}{571}, \frac{68}{571}, \frac{174}{571}, \frac{124}{571})$ $+\frac{10}{571}\sqrt{1205}e^2 \otimes e_5 + \frac{1}{571}\sqrt{121946}e^1 \otimes e_4$	{12389, 1278, 135689, 15678, 234679, 246, 34579, 45}
942:114	$0, 0, 0, 0, 0, \frac{1}{603}\sqrt{37070}e^{12}, \frac{2}{603}\sqrt{18535}e^{13}, \frac{1}{201}\sqrt{7414}e^{26}, \frac{2}{603}\sqrt{18535}e^{17}$	$(\frac{110}{603}, -\frac{25}{201}, -\frac{31}{603}, \frac{33}{67}, -\frac{227}{603}, \frac{35}{603}, \frac{79}{603}, -\frac{40}{603}, \frac{21}{67})$ $+\frac{2}{201}\sqrt{5729}e^1 \otimes e_5 + \frac{2}{603}\sqrt{36733}e^4 \otimes e_8$	{12389, 1278, 13689, 1678, 2345679, 2456, 34579, 45}
942:114	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{221}e^{12}, \frac{12}{521}\sqrt{546}e^{13}, \frac{12}{521}\sqrt{65}e^{26}, \frac{6}{521}\sqrt{1313}e^{17}$	$(\frac{34}{521}, \frac{23}{521}, \frac{93}{521}, -\frac{200}{521}, -\frac{141}{521}, \frac{57}{521}, \frac{127}{521}, \frac{80}{521}, \frac{161}{521})$ $+\frac{156}{521}\sqrt{5}e^1 \otimes e_4 + \frac{6}{521}\sqrt{2613}e^3 \otimes e_5$	{12389, 12578, 13689, 15678, 234679, 2456, 3479, 45}
942:114	$0, 0, 0, 0, 0, \frac{1}{1539}\sqrt{551190}e^{12}, \frac{8}{1539}\sqrt{967}e^{13}, \frac{2}{1539}\sqrt{157621}e^{26}, \frac{1}{1539}\sqrt{299770}e^{17}$	$(-\frac{73}{513}, \frac{367}{1539}, \frac{221}{1539}, \frac{250}{513}, -\frac{200}{513}, \frac{148}{1539}, \frac{2}{1539}, \frac{515}{1539}, -\frac{217}{1539})$ $+\frac{1}{1539}\sqrt{1084974}e^4 \otimes e_9 + \frac{1}{1539}\sqrt{1525926}e^2 \otimes e_5$	{123478, 1289, 1345678, 15689, 2346, 2679, 345, 579}
942:114	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{221}e^{12}, \frac{6}{521}\sqrt{1313}e^{13}, \frac{12}{521}\sqrt{65}e^{26}, \frac{12}{521}\sqrt{546}e^{17}$	$(\frac{34}{521}, \frac{23}{521}, -\frac{41}{521}, \frac{261}{521}, -\frac{200}{521}, \frac{57}{521}, -\frac{7}{521}, \frac{80}{521}, \frac{27}{521})$ $+\frac{156}{521}\sqrt{5}e^1 \otimes e_5 + \frac{6}{521}\sqrt{2613}e^4 \otimes e_9$	{12389, 12478, 13689, 14678, 235679, 2456, 3579, 45}
942:114	$0, 0, 0, 0, 0, \frac{4}{669}\sqrt{11658}e^{12}, \frac{4}{223}\sqrt{134}e^{13}, \frac{4}{669}\sqrt{14941}e^{26}, \frac{4}{669}\sqrt{11055}e^{17}$	$(-\frac{67}{223}, \frac{272}{669}, \frac{46}{223}, \frac{40}{223}, \frac{40}{223}, \frac{71}{669}, -\frac{21}{223}, \frac{343}{669}, -\frac{88}{223})$ $+\frac{4}{223}\sqrt{4087}e^2 \otimes e_9$	{1234578, 123478, 12378, 145689, 14689, 1689, 23456, 2346, 236, 4579, 479, 79}
942:114	$0, 0, 0, 0, 0, \frac{2}{97}\sqrt{186}e^{12}, \frac{4}{97}\sqrt{186}e^{13}, \frac{2}{97}\sqrt{682}e^{26}, \frac{2}{97}\sqrt{186}e^{17}$	$(-\frac{12}{97}, -\frac{4}{97}, \frac{42}{97}, \frac{43}{97}, -\frac{19}{97}, -\frac{16}{97}, \frac{30}{97}, -\frac{20}{97}, \frac{18}{97})$ $+\frac{62}{97}e^4 \otimes e_5 + \frac{6}{97}\sqrt{186}e^3 \otimes e_8$	{123469, 123569, 1349, 1359, 248, 258, 468, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:114	$0, 0, 0, 0, 0, \frac{2}{5097}\sqrt{502490}e^{12}, \frac{4}{1699}\sqrt{2766}e^{13}, \frac{40}{5097}\sqrt{1383}e^{26},$ $\frac{2}{5097}\sqrt{452702}e^{17}$	$(\frac{83}{5097}, \frac{83}{1699}, -\frac{839}{5097}, \frac{442}{5097}, \frac{501}{1699}, \frac{332}{5097}, -\frac{252}{1699}, \frac{581}{5097}, -\frac{673}{5097})$ $+ \frac{2}{1699}\sqrt{107413}e^2 \otimes e_9 + \frac{2}{5097}\sqrt{489121}e^5 \otimes e_8 + \frac{2}{5097}\sqrt{690117}e^1 \otimes e_3$	{14689, 1689, 23456, 2356}
942:114	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{22971}e^{12}, \frac{4}{639}\sqrt{23374}e^{13}, \frac{4}{639}\sqrt{4030}e^{26},$ $\frac{2}{639}\sqrt{23777}e^{17}$	$(-\frac{38}{213}, \frac{137}{639}, \frac{407}{639}, -\frac{133}{213}, \frac{40}{213}, \frac{23}{639}, \frac{293}{639}, \frac{160}{639}, \frac{179}{639})$ $+ \frac{2}{639}\sqrt{209157}e^3 \otimes e_4$	{123569, 12369, 124567, 12467, 1359, 139, 1457, 147, 235789, 23789, 2458, 248, 356789, 36789, 4568, 468}
942:114	$0, 0, 0, 0, 0, \frac{2}{209}\sqrt{1002}e^{12}, \frac{4}{209}\sqrt{501}e^{13}, \frac{2}{209}\sqrt{2338}e^{26}, \frac{4}{209}\sqrt{501}e^{17}$	$(\frac{12}{209}, \frac{2}{19}, \frac{30}{209}, 1, -\frac{125}{209}, \frac{34}{209}, \frac{42}{209}, \frac{56}{209}, \frac{54}{209})$ $+ \frac{334}{209}e^4 \otimes e_5$	{123489, 123589, 12478, 12578, 134689, 135689, 14678, 15678, 234679, 235679, 246, 256, 3479, 3579, 4, 5}
942:114	$0, 0, 0, 0, 0, \frac{1}{627}\sqrt{76190}e^{12}, \frac{2}{627}\sqrt{1203}e^{13}, \frac{1}{627}\sqrt{89022}e^{26},$ $\frac{2}{627}\sqrt{18446}e^{17}$	$(\frac{10}{33}, -\frac{43}{209}, -\frac{211}{627}, \frac{111}{209}, \frac{7}{57}, \frac{61}{627}, -\frac{7}{209}, -\frac{68}{627}, \frac{169}{627})$ $+ \frac{14}{627}\sqrt{1203}e^1 \otimes e_3 + \frac{16}{627}\sqrt{802}e^4 \otimes e_8$	{12589, 1289, 15689, 1689, 23456, 2346, 34, 345}
942:114	$0, 0, 0, 0, 0, \frac{6}{4501}\sqrt{3689}e^{12}, \frac{2}{4501}\sqrt{617117}e^{13}, \frac{2}{4501}\sqrt{324105}e^{26},$ $\frac{4}{4501}\sqrt{138074}e^{17}$	$(-\frac{18}{643}, -\frac{127}{4501}, \frac{674}{4501}, -\frac{1180}{4501}, \frac{1476}{4501}, -\frac{253}{4501}, \frac{548}{4501}, -\frac{380}{4501}, \frac{422}{4501})$ $+ \frac{2}{4501}\sqrt{553877}e^5 \otimes e_9 + \frac{2}{4501}\sqrt{845835}e^1 \otimes e_4 + \frac{4}{4501}\sqrt{187085}e^3 \otimes e_8$	{12369, 139, 2458, 4568}
942:114	$0, 0, 0, 0, 0, \frac{2}{4761}\sqrt{299238}e^{12}, \frac{2}{4761}\sqrt{34817}e^{13}, \frac{4}{4761}\sqrt{128917}e^{26},$ $\frac{4}{4761}\sqrt{253129}e^{17}$	$(\frac{212}{1587}, \frac{19}{207}, -\frac{1246}{4761}, \frac{548}{1587}, \frac{212}{4761}, \frac{199}{529}, -\frac{610}{4761}, -\frac{238}{4761}, \frac{26}{4761})$ $+ \frac{2}{1587}\sqrt{171262}e^1 \otimes e_3 + \frac{2}{4761}\sqrt{1391739}e^5 \otimes e_9 + \frac{2}{529}\sqrt{14115}e^4 \otimes e_8$	{12578, 15678, 234679, 3479}
942:114	$0, 0, 0, 0, 0, \frac{2}{1371}\sqrt{66198}e^{12}, \frac{22}{4113}\sqrt{1003}e^{13}, \frac{2}{4113}\sqrt{380314}e^{26},$ $\frac{2}{4113}\sqrt{388102}e^{17}$	$(\frac{145}{1371}, \frac{254}{4113}, -\frac{863}{4113}, -\frac{116}{457}, \frac{145}{457}, \frac{689}{4113}, -\frac{428}{4113}, \frac{943}{4113}, \frac{7}{4113})$ $+ \frac{2}{4113}\sqrt{909249}e^2 \otimes e_4 + \frac{2}{4113}\sqrt{913143}e^1 \otimes e_3 + \frac{4}{4113}\sqrt{153813}e^5 \otimes e_9$	{1289, 14689, 2356, 345}
942:114	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{23}e^{12}, \frac{1}{18}\sqrt{46}e^{13}, \frac{1}{9}\sqrt{69}e^{26}, \frac{1}{18}\sqrt{46}e^{17}$	$(\frac{1}{18}, -\frac{1}{6}, \frac{5}{36}, 1, \frac{7}{36}, -\frac{1}{9}, \frac{7}{36}, -\frac{5}{18}, \frac{1}{4})$ $+ \frac{1}{18}\sqrt{667}e^4 \otimes e_8$	{123589, 12389, 12578, 1278, 135689, 13689, 15678, 1678, 2345679, 234679, 2456, 246, 34579, 3479, 4, 45}
942:114	$0, 0, 0, 0, 0, \frac{2}{1371}\sqrt{31755}e^{12}, \frac{4}{457}\sqrt{511}e^{13}, \frac{2}{1371}\sqrt{81030}e^{26},$ $\frac{2}{1371}\sqrt{40953}e^{17}$	$(-\frac{280}{1371}, \frac{191}{1371}, \frac{313}{1371}, -\frac{125}{1371}, \frac{180}{457}, -\frac{89}{1371}, \frac{11}{457}, \frac{34}{457}, \frac{247}{1371})$ $+ \frac{2}{457}\sqrt{13870}e^2 \otimes e_9 + \frac{2}{457}\sqrt{6351}e^3 \otimes e_4 + \frac{4}{1371}\sqrt{22119}e^5 \otimes e_8$	{12478, 13689, 2456, 3579}
942:114	$0, 0, 0, 0, 0, \frac{14}{253}\sqrt{78}e^{12}, \frac{4}{253}\sqrt{91}e^{13}, \frac{2}{253}\sqrt{910}e^{26}, \frac{4}{253}\sqrt{910}e^{17}$	$(\frac{84}{253}, -\frac{2}{23}, -\frac{98}{253}, \frac{11}{23}, -\frac{61}{253}, \frac{62}{253}, -\frac{14}{253}, \frac{40}{253}, \frac{70}{253})$ $+ \frac{182}{253}e^4 \otimes e_5 + \frac{4}{253}\sqrt{3003}e^1 \otimes e_3$	{12489, 12589, 14689, 15689, 2346, 2356, 34, 35}
942:114	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{2534}e^{12}, \frac{1}{219}\sqrt{5430}e^{13}, \frac{1}{219}\sqrt{13213}e^{26}, \frac{1}{146}\sqrt{181}e^{17}$	$(-\frac{23}{146}, \frac{71}{876}, \frac{61}{146}, -\frac{97}{292}, \frac{33}{292}, -\frac{67}{876}, \frac{19}{73}, \frac{1}{219}, \frac{15}{146})$ $+ \frac{1}{146}\sqrt{7783}e^3 \otimes e_8 + \frac{1}{438}\sqrt{70590}e^2 \otimes e_4$	{125789, 12789, 1456789, 146789, 23567, 2367, 3457, 347}
942:114	$0, 0, 0, 0, 0, \frac{15}{2033}\sqrt{2006}e^{12}, \frac{6}{2033}\sqrt{6549}e^{13}, \frac{84}{2033}\sqrt{59}e^{26},$ $\frac{12}{2033}\sqrt{3953}e^{17}$	$(-\frac{92}{2033}, \frac{359}{2033}, \frac{12}{2033}, -\frac{623}{2033}, \frac{234}{2033}, \frac{267}{2033}, -\frac{80}{2033}, \frac{626}{2033}, -\frac{172}{2033})$ $+ \frac{3}{2033}\sqrt{101126}e^1 \otimes e_4 + \frac{6}{2033}\sqrt{27789}e^2 \otimes e_9$	{12578, 1278, 135689, 13689, 2456, 246, 34579, 3479}
942:114	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{101}e^{12}, \frac{2}{213}\sqrt{1515}e^{13}, \frac{2}{213}\sqrt{7171}e^{26}, \frac{2}{213}\sqrt{1515}e^{17}$	$(-\frac{5}{71}, \frac{61}{213}, \frac{17}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{46}{213}, \frac{12}{71}, \frac{107}{213}, \frac{7}{71})$ $+ \frac{2}{213}\sqrt{17877}e^2 \otimes e_4$	{1235789, 123789, 1258, 128, 13456789, 1346789, 14568, 1468, 23569, 2369, 2567, 267, 3459, 349, 457, 47}
942:114	$0, 0, 0, 0, 0, \frac{2}{243}\sqrt{4290}e^{12}, \frac{4}{243}\sqrt{247}e^{13}, \frac{2}{243}\sqrt{2470}e^{26}, \frac{2}{243}\sqrt{754}e^{17}$	$(\frac{16}{81}, \frac{25}{486}, -\frac{56}{243}, -\frac{61}{162}, \frac{17}{162}, \frac{121}{486}, -\frac{8}{243}, \frac{73}{243}, \frac{40}{243})$ $+ \frac{2}{243}\sqrt{5226}e^1 \otimes e_3 + \frac{52}{81}e^2 \otimes e_4$	{12589, 1289, 145689, 14689, 2356, 236, 34, 345}
942:114	$0, 0, 0, 0, 0, \frac{1}{1797}\sqrt{204270}e^{12}, \frac{4}{1797}\sqrt{20427}e^{13}, \frac{1}{1797}\sqrt{741562}e^{26},$ $\frac{1}{599}\sqrt{40854}e^{17}$	$(-\frac{170}{599}, \frac{292}{1797}, \frac{231}{599}, \frac{72}{599}, \frac{72}{599}, -\frac{218}{1797}, \frac{61}{599}, \frac{74}{1797}, -\frac{109}{599})$ $+ \frac{1}{1797}\sqrt{917358}e^3 \otimes e_8 + \frac{4}{1797}\sqrt{64995}e^2 \otimes e_9$	{124578, 12478, 1278, 34579, 3479, 379}
942:114	$0, 0, 0, 0, 0, \frac{6}{787}\sqrt{2365}e^{12}, \frac{4}{787}\sqrt{4730}e^{13}, \frac{8}{787}\sqrt{2365}e^{26},$ $\frac{2}{787}\sqrt{30745}e^{17}$	$(-\frac{226}{787}, \frac{253}{787}, \frac{275}{787}, -\frac{155}{787}, \frac{104}{787}, \frac{27}{787}, \frac{49}{787}, \frac{280}{787}, -\frac{177}{787})$ $+ \frac{2}{787}\sqrt{55685}e^3 \otimes e_4 + \frac{4}{787}\sqrt{22790}e^2 \otimes e_9$	{124578, 12478, 135689, 13689, 2456, 246, 3579, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:114	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22274}e^{12}, \frac{1}{391}\sqrt{45066}e^{13}, \frac{1}{391}\sqrt{7770}e^{26}, \frac{1}{391}\sqrt{45066}e^{17}$	$(-\frac{86}{391}, \frac{73}{391}, \frac{131}{391}, \frac{218}{391}, -\frac{128}{391}, -\frac{13}{391}, \frac{45}{391}, \frac{60}{391}, -\frac{41}{391}) + \frac{1}{391}\sqrt{89614}e^3 \otimes e_5 + \frac{1}{391}\sqrt{89614}e^4 \otimes e_9$	{12369, 124567, 139, 1457, 23789, 2458, 36789, 4568}
942:114	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{185}e^{12}, \frac{1}{54}\sqrt{222}e^{13}, \frac{1}{27}\sqrt{185}e^{26}, \frac{1}{54}\sqrt{814}e^{17}$	$(-\frac{5}{54}, -\frac{1}{54}, \frac{7}{108}, \frac{5}{108}, \frac{61}{9}, -\frac{1}{9}, -\frac{1}{36}, -\frac{7}{54}, -\frac{13}{108}) + \frac{1}{54}\sqrt{1739}e^4 \otimes e_8 + \frac{2}{27}\sqrt{111}e^5 \otimes e_9$	{123469, 124567, 1349, 1457, 23789, 258, 36789, 568}
942:114	$0, 0, 0, 0, 0, \frac{6}{233}\sqrt{313}e^{12}, \frac{2}{699}\sqrt{4695}e^{13}, \frac{1}{699}\sqrt{145858}e^{26}, \frac{2}{699}\sqrt{4695}e^{17}$	$(-\frac{10}{233}, \frac{31}{699}, \frac{34}{699}, \frac{115}{699}, -\frac{94}{233}, \frac{1}{699}, \frac{24}{699}, \frac{32}{699}, \frac{14}{699}) + \frac{1}{699}\sqrt{170898}e^4 \otimes e_8 + \frac{2}{699}\sqrt{55401}e^2 \otimes e_5$	{123789, 128, 1356789, 1568, 23469, 2467, 3459, 457}
942:114	$0, 0, 0, 0, 0, \frac{1}{361}\sqrt{15522}e^{12}, \frac{4}{361}\sqrt{2189}e^{13}, \frac{5}{361}\sqrt{1194}e^{26}, \frac{1}{361}\sqrt{29054}e^{17}$	$(-\frac{78}{361}, \frac{8}{361}, \frac{137}{361}, \frac{180}{361}, \frac{44}{361}, -\frac{70}{361}, \frac{59}{361}, -\frac{62}{361}, -\frac{1}{19}) + \frac{1}{361}\sqrt{72038}e^3 \otimes e_8 + \frac{4}{361}\sqrt{3383}e^4 \otimes e_9$	{123569, 12369, 1359, 139, 2458, 248, 4568, 468}
942:114	$0, 0, 0, 0, 0, \frac{1}{1937}\sqrt{48930}e^{12}, \frac{2}{1937}\sqrt{221583}e^{13}, \frac{1}{1937}\sqrt{501882}e^{26}, \frac{8}{1937}\sqrt{7689}e^{17}$	$(\frac{70}{1937}, -\frac{163}{1937}, \frac{443}{1937}, -\frac{629}{1937}, \frac{231}{1937}, -\frac{93}{1937}, \frac{513}{1937}, -\frac{256}{1937}, \frac{583}{1937}) + \frac{1}{1937}\sqrt{300570}e^1 \otimes e_4 + \frac{6}{1937}\sqrt{32853}e^3 \otimes e_8$	{12578, 1278, 15678, 1678, 2345679, 234679, 34579, 3479}
942:114	$0, 0, 0, 0, 0, \frac{2}{4629}\sqrt{310865}e^{12}, \frac{4}{4629}\sqrt{36735}e^{13}, \frac{8}{4629}\sqrt{26070}e^{26}, \frac{2}{4629}\sqrt{384335}e^{17}$	$(-\frac{229}{4629}, \frac{134}{1543}, \frac{70}{4629}, -\frac{1019}{4629}, \frac{455}{1543}, \frac{173}{4629}, -\frac{53}{1543}, \frac{575}{4629}, -\frac{388}{4629}) + \frac{2}{4629}\sqrt{364585}e^5 \otimes e_8 + \frac{2}{4629}\sqrt{577095}e^1 \otimes e_4 + \frac{2}{4629}\sqrt{712185}e^2 \otimes e_9$	{1278, 13689, 2456, 34579}
942:114	$0, 0, 0, 0, 0, \frac{2}{699}\sqrt{15834}e^{12}, \frac{2}{233}\sqrt{182}e^{13}, \frac{1}{699}\sqrt{127218}e^{26}, \frac{2}{699}\sqrt{15015}e^{17}$	$(-\frac{134}{699}, \frac{97}{699}, \frac{92}{699}, \frac{111}{233}, \frac{80}{699}, -\frac{37}{699}, -\frac{14}{233}, \frac{20}{233}, -\frac{176}{699}) + \frac{1}{699}\sqrt{138138}e^4 \otimes e_8 + \frac{2}{233}\sqrt{5551}e^2 \otimes e_9$	{123578, 12378, 15689, 1689, 23456, 2346, 4579, 479}
942:114	$0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{105927}e^{12}, \frac{2}{2097}\sqrt{7973}e^{13}, \frac{2}{2097}\sqrt{43282}e^{26}, \frac{7}{2097}\sqrt{29614}e^{17}$	$(\frac{124}{699}, -\frac{34}{2097}, -\frac{767}{2097}, \frac{124}{233}, \frac{76}{699}, \frac{338}{2097}, -\frac{395}{2097}, \frac{304}{2097}, -\frac{23}{2097}) + \frac{1}{699}\sqrt{248302}e^1 \otimes e_3 + \frac{4}{2097}\sqrt{126429}e^4 \otimes e_9$	{124578, 12478, 145678, 14678, 235679, 23679, 3579, 379}
942:114	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{22971}e^{12}, \frac{2}{639}\sqrt{23777}e^{13}, \frac{4}{639}\sqrt{4030}e^{26}, \frac{4}{639}\sqrt{23374}e^{17}$	$(-\frac{38}{213}, \frac{137}{639}, \frac{61}{639}, 1, \frac{40}{213}, \frac{23}{639}, -\frac{53}{639}, \frac{160}{639}, -\frac{167}{639}) + \frac{2}{639}\sqrt{209157}e^4 \otimes e_9$	{123569, 12369, 124567, 12467, 1359, 139, 1457, 147, 235789, 23789, 2458, 248, 356789, 36789, 4568, 468}
942:114	$0, 0, 0, 0, 0, \frac{2}{3481}\sqrt{156367}e^{12}, \frac{2}{3481}\sqrt{255611}e^{13}, \frac{10}{3481}\sqrt{21349}e^{26}, \frac{2}{3481}\sqrt{148866}e^{17}$	$(-\frac{633}{3481}, \frac{318}{3481}, \frac{1157}{3481}, -\frac{836}{3481}, \frac{1045}{3481}, -\frac{315}{3481}, \frac{524}{3481}, \frac{3}{3481}, -\frac{109}{3481}) + \frac{10}{3481}\sqrt{27119}e^2 \otimes e_4 + \frac{2}{3481}\sqrt{407362}e^5 \otimes e_9 + \frac{2}{3481}\sqrt{727597}e^3 \otimes e_8$	{12578, 145678, 23679, 3479}
942:114	$0, 0, 0, 0, 0, \frac{2}{4761}\sqrt{780738}e^{12}, \frac{10}{4761}\sqrt{7051}e^{13}, \frac{2}{4761}\sqrt{732022}e^{26}, \frac{2}{4761}\sqrt{108970}e^{17}$	$(\frac{205}{1587}, -\frac{146}{4761}, -\frac{29}{207}, -\frac{476}{1587}, \frac{535}{1587}, \frac{469}{4761}, -\frac{52}{4761}, \frac{323}{4761}, \frac{563}{4761}) + \frac{2}{4761}\sqrt{1167261}e^2 \otimes e_4 + \frac{2}{4761}\sqrt{855735}e^1 \otimes e_3 + \frac{4}{4761}\sqrt{194223}e^5 \otimes e_8$	{1289, 14689, 2356, 345}
942:114	$0, 0, 0, 0, 0, \frac{4}{937}\sqrt{11658}e^{12}, \frac{12}{937}\sqrt{134}e^{13}, \frac{4}{937}\sqrt{14941}e^{26}, \frac{4}{937}\sqrt{11055}e^{17}$	$(-\frac{201}{937}, \frac{272}{937}, \frac{138}{937}, \frac{388}{937}, \frac{148}{937}, \frac{71}{937}, -\frac{63}{937}, \frac{343}{937}, -\frac{264}{937}) + \frac{12}{937}\sqrt{4087}e^2 \otimes e_9 + \frac{536}{937}e^4 \otimes e_5$	{123478, 123578, 14689, 15689, 2346, 2356, 479, 579}
942:114	$0, 0, 0, 0, 0, \frac{4}{5021}\sqrt{184462}e^{12}, \frac{4}{5021}\sqrt{37759}e^{13}, \frac{4}{5021}\sqrt{136799}e^{26}, \frac{2}{5021}\sqrt{662330}e^{17}$	$(\frac{192}{5021}, \frac{576}{5021}, -\frac{1046}{5021}, -\frac{159}{5021}, \frac{1079}{5021}, \frac{768}{5021}, -\frac{854}{5021}, \frac{1344}{5021}, -\frac{662}{5021}) + \frac{10}{5021}\sqrt{43330}e^1 \otimes e_3 + \frac{1238}{5021}e^5 \otimes e_4 + \frac{8}{5021}\sqrt{84803}e^2 \otimes e_9$	{14689, 15689, 2346, 2356}
942:115	$0, 0, 0, 0, 0, \frac{1}{2021}\sqrt{1035070}e^{12}, \frac{3}{2021}\sqrt{16282}e^{13}, \frac{4}{2021}\sqrt{61639}e^{26}, \frac{1}{2021}\sqrt{779210}e^{37}$	$(-\frac{126}{2021}, \frac{403}{2021}, -\frac{16}{2021}, \frac{1005}{2021}, -\frac{760}{2021}, \frac{277}{2021}, -\frac{142}{2021}, \frac{680}{2021}, -\frac{158}{2021}) + \frac{1}{2021}\sqrt{1742174}e^4 \otimes e_9 + \frac{4}{2021}\sqrt{147701}e^2 \otimes e_5$	{123478, 1248, 1345678, 14568, 2369, 2679, 359, 579}
942:115	$0, 0, 0, 0, 0, \frac{1}{237}\sqrt{1254}e^{12}, \frac{1}{237}\sqrt{1254}e^{13}, \frac{1}{237}\sqrt{3002}e^{26}, \frac{1}{237}\sqrt{3002}e^{37}$	$(-\frac{13}{79}, \frac{20}{237}, \frac{20}{237}, \frac{9}{79}, \frac{9}{79}, -\frac{19}{237}, -\frac{19}{237}, \frac{1}{237}, \frac{1}{237}) + \frac{1}{237}\sqrt{3990}e^2 \otimes e_9 + \frac{1}{237}\sqrt{3990}e^3 \otimes e_8$	{1456789, 146789, 16789, 234567, 23467, 2367}
942:115	$0, 0, 0, 0, 0, \frac{2}{4393}\sqrt{124745}e^{12}, \frac{2}{4393}\sqrt{272803}e^{13}, \frac{2}{4393}\sqrt{469123}e^{26}, \frac{2}{4393}\sqrt{444174}e^{37}$	$(-\frac{525}{4393}, \frac{130}{4393}, \frac{553}{4393}, -\frac{688}{4393}, \frac{1399}{4393}, -\frac{395}{4393}, \frac{28}{4393}, -\frac{265}{4393}, \frac{581}{4393}) + \frac{26}{4393}\sqrt{4499}e^3 \otimes e_8 + \frac{2}{4393}\sqrt{464215}e^2 \otimes e_4 + \frac{4}{4393}\sqrt{97342}e^5 \otimes e_9$	{12789, 146789, 23567, 3457}
942:115	$0, 0, 0, 0, 0, \frac{1}{691}\sqrt{95046}e^{12}, \frac{2}{691}\sqrt{3689}e^{13}, \frac{4}{691}\sqrt{4123}e^{26}, \frac{4}{691}\sqrt{4123}e^{37}$	$(\frac{68}{691}, \frac{85}{691}, -\frac{100}{691}, -\frac{149}{691}, \frac{86}{691}, \frac{153}{691}, -\frac{32}{691}, \frac{238}{691}, -\frac{132}{691}) + \frac{1}{691}\sqrt{101990}e^1 \otimes e_4 + \frac{2}{691}\sqrt{40145}e^2 \otimes e_9$	{135689, 13689, 156789, 16789, 234567, 23467, 2456, 246}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:115	$0, 0, 0, 0, 0, \frac{24}{539}\sqrt{95}e^{12}, \frac{24}{539}\sqrt{95}e^{13}, \frac{24}{539}\sqrt{114}e^{26}, \frac{6}{539}\sqrt{437}e^{37}$	$(\frac{160}{539}, \frac{107}{539}, \frac{34}{539}, \frac{288}{539}, \frac{26}{77}, \frac{53}{539}, \frac{18}{77}, \frac{54}{539}, \frac{92}{539})$ $+ \frac{6}{539}\sqrt{4161}e^4 \otimes e_8 + \frac{6}{539}\sqrt{4769}e^1 \otimes e_5$	{12389, 12789, 13689, 16789, 234567, 2456, 3457, 45}
942:115	$0, 0, 0, 0, 0, \frac{8}{247}\sqrt{638}e^{12}, \frac{16}{741}\sqrt{231}e^{13}, \frac{8}{741}\sqrt{5434}e^{26}, \frac{8}{247}\sqrt{110}e^{37}$	$(-\frac{28}{247}, \frac{233}{741}, \frac{44}{247}, \frac{157}{247}, \frac{45}{247}, \frac{149}{741}, \frac{16}{247}, \frac{382}{741}, \frac{60}{247})$ $+ \frac{16}{741}\sqrt{3333}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468, 23569, 2369, 25679, 2679, 3459, 349, 4579, 479}
942:115	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{1529}e^{12}, \frac{2}{939}\sqrt{22935}e^{13}, \frac{2}{939}\sqrt{43507}e^{26}, \frac{2}{313}\sqrt{3058}e^{37}$	$(-\frac{49}{313}, \frac{50}{939}, \frac{77}{313}, \frac{76}{313}, \frac{39}{313}, \frac{97}{939}, \frac{28}{313}, \frac{47}{939}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{7367}e^3 \otimes e_8 + \frac{2}{939}\sqrt{47955}e^2 \otimes e_4$	{125789, 12789, 1456789, 146789, 23567, 2367, 3457, 347}
942:115	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{11}e^{12}, \frac{1}{16}\sqrt{11}e^{13}, \frac{1}{16}\sqrt{66}e^{26}, \frac{1}{16}\sqrt{66}e^{37}$	$(\frac{1}{16}, \frac{3}{32}, \frac{3}{16}, \frac{9}{16}, \frac{9}{16}, \frac{1}{32}, \frac{1}{32}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{154}e^4 \otimes e_8 + \frac{1}{16}\sqrt{154}e^5 \otimes e_9$	{12389, 12789, 16789, 234567, 2456, 45}
942:115	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{141}e^{12}, \frac{2}{59}\sqrt{141}e^{13}, \frac{4}{59}\sqrt{47}e^{26}, \frac{4}{59}\sqrt{47}e^{37}$	$(\frac{6}{59}, \frac{5}{59}, \frac{5}{59}, 1, \frac{35}{59}, \frac{11}{59}, \frac{11}{59}, \frac{16}{59}, \frac{16}{59})$ $+ \frac{94}{59}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 146789, 156789, 23467, 23567, 246, 256, 4, 5}
942:115	$0, 0, 0, 0, 0, \frac{1}{2249}\sqrt{1371930}e^{12}, \frac{2}{2249}\sqrt{80934}e^{13}, \frac{2}{2249}\sqrt{218127}e^{26}, \frac{4}{2249}\sqrt{10857}e^{37}$	$(\frac{328}{2249}, \frac{189}{2249}, \frac{12}{2249}, \frac{659}{2249}, \frac{798}{2249}, \frac{517}{2249}, \frac{340}{2249}, \frac{706}{2249}, \frac{352}{2249})$ $+ \frac{1}{2249}\sqrt{1822002}e^1 \otimes e_4 + \frac{6}{2249}\sqrt{58233}e^2 \otimes e_5$	{12389, 12789, 135689, 156789, 23467, 246, 3457, 45}
942:115	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{31639}e^{12}, \frac{2}{2433}\sqrt{45822}e^{13}, \frac{1}{2433}\sqrt{1769602}e^{26}, \frac{2}{811}\sqrt{5455}e^{37}$	$(-\frac{56}{811}, \frac{149}{2433}, \frac{88}{811}, \frac{407}{811}, \frac{314}{811}, \frac{19}{2433}, \frac{32}{811}, \frac{130}{2433}, \frac{120}{811})$ $+ \frac{1}{2433}\sqrt{2075082}e^4 \otimes e_8 + \frac{2}{2433}\sqrt{661146}e^2 \otimes e_5$	{12378, 128, 135678, 1568, 23469, 24679, 3459, 4579}
942:115	$0, 0, 0, 0, 0, \frac{24}{67}\sqrt{2}e^{12}, \frac{8}{67}\sqrt{3}e^{13}, \frac{8}{67}\sqrt{17}e^{26}, \frac{8}{67}\sqrt{17}e^{37}$	$(-\frac{6}{67}, \frac{16}{67}, \frac{5}{67}, \frac{25}{67}, \frac{7}{67}, \frac{10}{67}, \frac{11}{67}, \frac{26}{67}, \frac{16}{67})$ $+ \frac{32}{67}e^4 \otimes e_5 + \frac{8}{67}\sqrt{42}e^2 \otimes e_9$	{123478, 123578, 1248, 1258, 349, 359, 479, 579}
942:115	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{2139}e^{12}, \frac{1}{62}\sqrt{2139}e^{13}, \frac{1}{31}\sqrt{138}e^{26}, \frac{1}{31}\sqrt{138}e^{37}$	$(\frac{1}{2}, -\frac{15}{124}, -\frac{15}{124}, \frac{19}{31}, \frac{6}{31}, \frac{47}{124}, \frac{47}{124}, \frac{8}{31}, \frac{8}{31})$ $+ \frac{5}{31}\sqrt{69}e^1 \otimes e_4$	{123589, 12389, 125789, 12789, 156789, 16789, 234567, 23467, 2456, 246, 4, 45}
942:115	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{330}e^{12}, \frac{5}{233}\sqrt{330}e^{13}, \frac{10}{233}\sqrt{110}e^{26}, \frac{10}{233}\sqrt{110}e^{37}$	$(-\frac{35}{233}, \frac{55}{233}, \frac{55}{233}, \frac{70}{233}, \frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, \frac{75}{233})$ $+ \frac{5}{233}\sqrt{1010}e^2 \otimes e_4 + \frac{5}{233}\sqrt{1010}e^3 \otimes e_5$	{12389, 125789, 1456789, 2367, 256, 45}
942:115	$0, 0, 0, 0, 0, \frac{2}{151}\sqrt{858}e^{12}, \frac{2}{151}\sqrt{143}e^{13}, \frac{1}{453}\sqrt{43186}e^{26}, \frac{2}{453}\sqrt{7293}e^{37}$	$(-\frac{12}{151}, \frac{47}{453}, \frac{10}{151}, \frac{67}{151}, \frac{18}{151}, \frac{11}{453}, \frac{22}{151}, \frac{58}{453}, \frac{32}{151})$ $+ \frac{2}{151}\sqrt{2002}e^2 \otimes e_9 + \frac{2}{453}\sqrt{858}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 3459, 349, 4579, 479}
942:115	$0, 0, 0, 0, 0, \frac{2}{493}\sqrt{1254}e^{12}, \frac{2}{493}\sqrt{1254}e^{13}, \frac{2}{493}\sqrt{3002}e^{26}, \frac{2}{493}\sqrt{3002}e^{37}$	$(-\frac{78}{493}, \frac{40}{493}, \frac{40}{493}, \frac{35}{493}, \frac{73}{493}, \frac{38}{493}, \frac{38}{493}, \frac{2}{493}, \frac{2}{493})$ $+ \frac{2}{493}\sqrt{3990}e^2 \otimes e_9 + \frac{2}{493}\sqrt{3990}e^3 \otimes e_8 + \frac{38}{493}e^5 \otimes e_4$	{146789, 156789, 23467, 23567}
942:115	$0, 0, 0, 0, 0, \frac{2}{4933}\sqrt{587733}e^{12}, \frac{2}{4933}\sqrt{69455}e^{13}, \frac{4}{4933}\sqrt{150406}e^{26}, \frac{2}{4933}\sqrt{424873}e^{37}$	$(\frac{290}{4933}, \frac{178}{4933}, \frac{535}{4933}, \frac{668}{4933}, \frac{1604}{4933}, \frac{468}{4933}, \frac{245}{4933}, \frac{646}{4933}, \frac{780}{4933})$ $+ \frac{2}{4933}\sqrt{558035}e^1 \otimes e_4 + \frac{4}{4933}\sqrt{259139}e^2 \otimes e_9 + \frac{6}{4933}\sqrt{58917}e^5 \otimes e_8$	{13689, 16789, 234567, 2456}
942:115	$0, 0, 0, 0, 0, \frac{8}{17}\sqrt{2}e^{12}, \frac{8}{51}\sqrt{3}e^{13}, \frac{8}{51}\sqrt{17}e^{26}, \frac{8}{51}\sqrt{17}e^{37}$	$(-\frac{2}{17}, \frac{16}{51}, \frac{5}{51}, \frac{3}{17}, \frac{3}{17}, \frac{10}{51}, \frac{11}{51}, \frac{26}{51}, \frac{16}{51})$ $+ \frac{8}{51}\sqrt{42}e^2 \otimes e_9$	{1234578, 123478, 12378, 12458, 1248, 128, 3459, 349, 39, 4579, 479, 79}
942:115	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{466}e^{12}, \frac{1}{61}\sqrt{466}e^{13}, \frac{1}{183}\sqrt{28426}e^{26}, \frac{2}{183}\sqrt{1398}e^{37}$	$(\frac{6}{61}, \frac{34}{183}, \frac{5}{61}, 1, \frac{12}{61}, \frac{16}{183}, \frac{11}{61}, \frac{50}{183}, \frac{16}{61})$ $+ \frac{7}{183}\sqrt{1398}e^4 \otimes e_8$	{123589, 12389, 125789, 12789, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 3457, 347, 4, 45}
942:116	$0, 0, 0, 0, 0, \frac{3}{232}\sqrt{1545}e^{12}, \frac{1}{232}\sqrt{13390}e^{13}, \frac{9}{232}\sqrt{206}e^{16}, \frac{1}{232}\sqrt{13390}e^{17} + \frac{3}{232}\sqrt{1545}e^{23}$	$(\frac{5}{464}, \frac{5}{232}, \frac{37}{464}, \frac{113}{232}, \frac{49}{116}, \frac{15}{464}, \frac{21}{232}, \frac{5}{116}, \frac{47}{464})$ $+ \frac{1}{116}\sqrt{4738}e^4 \otimes e_8 + \frac{1}{232}\sqrt{24514}e^2 \otimes e_5$	{1345679, 1456, 3459, 457}
942:116	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{5}e^{12}, \frac{2}{11}\sqrt{5}e^{13}, \frac{1}{11}\sqrt{10}e^{16}, \frac{2}{11}\sqrt{5}e^{17} + \frac{1}{11}\sqrt{30}e^{23}$	$(0, 0, \frac{1}{11}, \frac{6}{11}, \frac{4}{11}, 0, \frac{1}{11}, 0, \frac{1}{11})$ $+ \frac{5}{11}\sqrt{2}e^3 \otimes e_5 + \frac{5}{11}\sqrt{2}e^4 \otimes e_9$	{139, 1457, 3679, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:116	$0, 0, 0, 0, 0, \frac{16}{281}e^{12}, \frac{16}{281}\sqrt{22}e^{13}, \frac{24}{281}\sqrt{10}e^{16},$ $\frac{8}{281}\sqrt{70}e^{17} + \frac{8}{281}\sqrt{70}e^{23}$	$(-\frac{6}{281}, -\frac{12}{281}, \frac{40}{281}, -\frac{70}{281}, \frac{92}{281}, -\frac{18}{281}, \frac{34}{281}, -\frac{24}{281}, \frac{28}{281})$ $+ \frac{16}{281}\sqrt{47}e^3 \otimes e_8 + \frac{8}{281}\sqrt{134}e^5 \otimes e_9 + \frac{8}{281}\sqrt{190}e^1 \otimes e_4$	{1369, 3479}
942:116	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{2134}e^{12}, \frac{1}{81}\sqrt{2910}e^{13}, \frac{1}{81}\sqrt{7178}e^{16},$ $\frac{1}{81}\sqrt{2910}e^{17} + \frac{1}{81}\sqrt{2134}e^{23}$	$(-\frac{4}{81}, -\frac{8}{81}, \frac{2}{9}, 1, \frac{14}{81}, -\frac{4}{27}, \frac{14}{81}, -\frac{16}{81}, \frac{10}{81})$ $+ \frac{1}{81}\sqrt{12998}e^4 \otimes e_8$	{1345679, 134679, 1456, 146, 3459, 349, 457, 47}
942:116	$0, 0, 0, 0, 0, \frac{14}{145}\sqrt{6}e^{12}, \frac{7}{145}\sqrt{59}e^{13}, \frac{7}{145}\sqrt{71}e^{16},$ $\frac{21}{145}\sqrt{2}e^{17} + \frac{21}{145}\sqrt{2}e^{23}$	$(-\frac{1}{58}, -\frac{1}{29}, \frac{39}{145}, -\frac{103}{290}, \frac{16}{145}, -\frac{3}{58}, \frac{73}{290}, -\frac{2}{29}, \frac{34}{145})$ $+ \frac{21}{145}\sqrt{15}e^1 \otimes e_4 + \frac{7}{145}\sqrt{123}e^3 \otimes e_8$	{13569, 1369, 34579, 3479}
942:116	$0, 0, 0, 0, 0, \frac{7}{971}\sqrt{6330}e^{12}, \frac{1}{971}\sqrt{78070}e^{13}, \frac{1}{971}\sqrt{128710}e^{16},$ $\frac{1}{971}\sqrt{647770}e^{17} + \frac{1}{971}\sqrt{136095}e^{23}$	$(\frac{25}{971}, \frac{50}{971}, -\frac{134}{971}, 1, \frac{161}{971}, \frac{75}{971}, -\frac{109}{971}, \frac{100}{971}, -\frac{84}{971})$ $+ \frac{90}{971}\sqrt{211}e^4 \otimes e_9$	{1359, 139, 1457, 147, 35679, 3679, 456, 46}
942:116	$0, 0, 0, 0, 0, \frac{192}{2287}\sqrt{7}e^{12}, \frac{32}{2287}\sqrt{1402}e^{13}, \frac{32}{2287}\sqrt{218}e^{16},$ $\frac{64}{2287}\sqrt{211}e^{17} + \frac{32}{2287}\sqrt{102}e^{23}$	$(\frac{92}{2287}, \frac{184}{2287}, \frac{446}{2287}, -\frac{932}{2287}, -\frac{578}{2287}, \frac{276}{2287}, \frac{538}{2287}, \frac{368}{2287}, \frac{630}{2287})$ $+ \frac{32}{2287}\sqrt{2382}e^1 \otimes e_4 + \frac{96}{2287}\sqrt{186}e^3 \otimes e_5$	{12389, 12578, 2346789, 24568}
942:116	$0, 0, 0, 0, 0, \frac{4}{995}\sqrt{5034}e^{12}, \frac{1}{995}\sqrt{179546}e^{13}, \frac{1}{995}\sqrt{592334}e^{16},$ $\frac{3}{995}\sqrt{31882}e^{17} + \frac{3}{995}\sqrt{68798}e^{23}$	$(-\frac{16}{199}, -\frac{32}{199}, \frac{519}{995}, \frac{161}{995}, \frac{161}{995}, -\frac{48}{199}, \frac{439}{995}, -\frac{64}{199}, \frac{359}{995})$ $+ \frac{2}{995}\sqrt{349863}e^3 \otimes e_8$	{123456, 12346, 1236, 23457, 2347, 237}
942:116	$0, 0, 0, 0, 0, \frac{8}{2591}\sqrt{10281}e^{12}, \frac{36}{2591}\sqrt{322}e^{13}, \frac{24}{2591}\sqrt{1610}e^{16},$ $\frac{12}{2591}\sqrt{1610}e^{17} + \frac{4}{2591}\sqrt{119370}e^{23}$	$(-\frac{151}{2591}, -\frac{302}{2591}, \frac{500}{2591}, \frac{1302}{2591}, \frac{265}{2591}, -\frac{453}{2591}, \frac{349}{2591}, -\frac{604}{2591}, \frac{198}{2591})$ $+ \frac{4}{2591}\sqrt{143106}e^4 \otimes e_9 + \frac{4}{2591}\sqrt{177882}e^3 \otimes e_8$	{14578, 1478, 4568, 468}
942:116	$0, 0, 0, 0, 0, \frac{7}{971}\sqrt{6330}e^{12}, \frac{1}{971}\sqrt{647770}e^{13}, \frac{1}{971}\sqrt{128710}e^{16},$ $\frac{1}{971}\sqrt{78070}e^{17} + \frac{2}{971}\sqrt{136095}e^{23}$	$(\frac{25}{971}, \frac{50}{971}, \frac{406}{971}, -\frac{649}{971}, \frac{161}{971}, \frac{75}{971}, \frac{431}{971}, \frac{100}{971}, \frac{456}{971})$ $+ \frac{90}{971}\sqrt{211}e^3 \otimes e_4$	{1359, 139, 1457, 147, 35679, 3679, 456, 46}
942:116	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{3}{10}\sqrt{6}e^{13}, \frac{3}{10}\sqrt{5}e^{16},$ $\frac{3}{10}\sqrt{6}e^{17} + \frac{3}{5}\sqrt{2}e^{23}$	$(\frac{1}{10}, \frac{1}{5}, \frac{20}{10}, -\frac{7}{10}, \frac{3}{20}, \frac{3}{10}, \frac{20}{10}, \frac{2}{5}, \frac{1}{4})$ $+ \frac{3}{10}\sqrt{17}e^2 \otimes e_4$	{1345679, 134679, 1456, 146, 3459, 349, 457, 47}
942:116	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{462}e^{12}, \frac{7}{65}\sqrt{6}e^{13}, \frac{2}{65}\sqrt{210}e^{16},$ $\frac{1}{65}\sqrt{714}e^{17} + \frac{2}{65}\sqrt{273}e^{23}$	$(-\frac{1}{65}, -\frac{2}{65}, \frac{17}{65}, -\frac{23}{65}, \frac{6}{65}, -\frac{3}{65}, \frac{16}{65}, -\frac{4}{65}, \frac{3}{13})$ $+ \frac{1}{65}\sqrt{1218}e^2 \otimes e_4 + \frac{6}{65}\sqrt{35}e^3 \otimes e_8$	{1345679, 134679, 3459, 349}
942:116	$0, 0, 0, 0, 0, \frac{1}{590}\sqrt{12513}e^{12}, \frac{1}{590}\sqrt{9894}e^{13}, \frac{1}{590}\sqrt{33465}e^{16},$ $\frac{97}{590}\sqrt{6}e^{17} + \frac{1}{295}\sqrt{29973}e^{23}$	$(\frac{29}{590}, \frac{29}{295}, \frac{219}{1180}, -\frac{233}{590}, -\frac{363}{1180}, \frac{87}{590}, \frac{277}{1180}, \frac{58}{295}, \frac{67}{236})$ $+ \frac{1}{590}\sqrt{169653}e^2 \otimes e_4 + \frac{6}{295}\sqrt{970}e^3 \otimes e_5$	{134679, 1456, 349, 457}
942:116	$0, 0, 0, 0, 0, \frac{192}{2287}\sqrt{7}e^{12}, \frac{64}{2287}\sqrt{211}e^{13}, \frac{32}{2287}\sqrt{218}e^{16},$ $\frac{32}{2287}\sqrt{1402}e^{17} + \frac{32}{2287}\sqrt{102}e^{23}$	$(\frac{92}{2287}, \frac{184}{2287}, -\frac{112}{2287}, \frac{1096}{2287}, -\frac{932}{2287}, \frac{276}{2287}, -\frac{20}{2287}, \frac{368}{2287}, \frac{72}{2287})$ $+ \frac{32}{2287}\sqrt{2382}e^1 \otimes e_5 + \frac{96}{2287}\sqrt{186}e^4 \otimes e_9$	{12389, 12478, 2356789, 24568}
942:116	$0, 0, 0, 0, 0, \frac{3}{214}\sqrt{806}e^{12}, \frac{1}{107}\sqrt{930}e^{13}, \frac{1}{107}\sqrt{2697}e^{16},$ $\frac{1}{107}\sqrt{930}e^{17} + \frac{1}{214}\sqrt{3441}e^{23}$	$(\frac{3}{428}, \frac{3}{214}, \frac{11}{107}, \frac{99}{214}, -\frac{183}{428}, \frac{9}{428}, \frac{47}{428}, \frac{3}{107}, \frac{25}{214})$ $+ \frac{1}{214}\sqrt{14043}e^4 \otimes e_8 + \frac{1}{214}\sqrt{21390}e^1 \otimes e_5$	{12389, 1278, 2356789, 2568}
942:116	$0, 0, 0, 0, 0, \frac{1}{594}\sqrt{13685}e^{12}, \frac{1}{198}\sqrt{3910}e^{13}, \frac{1}{297}\sqrt{20723}e^{16},$ $\frac{2}{297}\sqrt{2346}e^{17} + \frac{1}{297}\sqrt{23851}e^{23}$	$(-\frac{19}{594}, -\frac{19}{297}, \frac{119}{396}, \frac{35}{66}, -\frac{425}{1188}, -\frac{19}{198}, \frac{29}{108}, -\frac{38}{297}, \frac{281}{1188})$ $+ \frac{1}{198}\sqrt{24242}e^3 \otimes e_5 + \frac{1}{594}\sqrt{194327}e^4 \otimes e_8$	{12346, 1245679, 2347, 2459}
942:116	$0, 0, 0, 0, 0, \frac{1}{590}\sqrt{12513}e^{12}, \frac{97}{590}\sqrt{6}e^{13}, \frac{1}{590}\sqrt{33465}e^{16},$ $\frac{1}{590}\sqrt{9894}e^{17} + \frac{1}{295}\sqrt{29973}e^{23}$	$(\frac{29}{590}, \frac{29}{295}, -\frac{101}{1180}, \frac{597}{1180}, -\frac{233}{590}, \frac{87}{590}, -\frac{43}{1180}, \frac{58}{295}, \frac{3}{236})$ $+ \frac{1}{590}\sqrt{169653}e^2 \otimes e_5 + \frac{6}{295}\sqrt{970}e^4 \otimes e_9$	{135679, 1456, 359, 457}
942:116	$0, 0, 0, 0, 0, \frac{1}{594}\sqrt{13685}e^{12}, \frac{2}{297}\sqrt{2346}e^{13}, \frac{1}{297}\sqrt{20723}e^{16},$ $\frac{1}{198}\sqrt{3910}e^{17} + \frac{1}{297}\sqrt{23851}e^{23}$	$(-\frac{19}{594}, -\frac{19}{297}, -\frac{5}{396}, \frac{35}{66}, \frac{691}{1188}, -\frac{19}{198}, -\frac{53}{1188}, -\frac{38}{297}, -\frac{91}{1188})$ $+ \frac{1}{198}\sqrt{24242}e^5 \otimes e_9 + \frac{1}{594}\sqrt{194327}e^4 \otimes e_8$	{1234567, 12469, 2345, 2479}
942:116	$0, 0, 0, 0, 0, \frac{8}{2829}\sqrt{5034}e^{12}, \frac{2}{2829}\sqrt{179546}e^{13}, \frac{2}{2829}\sqrt{592334}e^{16},$ $\frac{2}{943}\sqrt{31882}e^{17} + \frac{2}{943}\sqrt{68798}e^{23}$	$(-\frac{160}{2829}, -\frac{320}{2829}, \frac{346}{943}, \frac{387}{943}, -\frac{517}{2829}, -\frac{160}{943}, \frac{878}{2829}, -\frac{640}{2829}, \frac{718}{2829})$ $+ \frac{1678}{2829}e^4 \otimes e_5 + \frac{4}{2829}\sqrt{349863}e^3 \otimes e_8$	{12346, 12356, 2347, 2357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:116	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{1}{79}\sqrt{70}e^{13}, \frac{5}{79}\sqrt{42}e^{16},$ $\frac{1}{79}\sqrt{70}e^{17} + \frac{5}{79}\sqrt{14}e^{23}$	$(\frac{6}{79}, \frac{12}{79}, \frac{3}{79}, -\frac{29}{79}, -\frac{23}{79}, \frac{18}{79}, \frac{9}{79}, \frac{24}{79}, \frac{15}{79})$ $+ \frac{2}{79}\sqrt{665}e^1 \otimes e_4 + \frac{8}{79}\sqrt{35}e^2 \otimes e_5$	{13569, 1567, 34579, 45}
942:116	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{195}e^{12}, \frac{2}{81}\sqrt{130}e^{13}, \frac{4}{81}\sqrt{65}e^{16},$ $\frac{2}{81}\sqrt{130}e^{17} + \frac{2}{81}\sqrt{195}e^{23}$	$(\frac{5}{81}, \frac{10}{81}, \frac{11}{81}, 1, -\frac{49}{81}, \frac{5}{27}, \frac{16}{81}, \frac{20}{81}, \frac{7}{27})$ $+ \frac{130}{81}e^4 \otimes e_5$	{13469, 13569, 1467, 1567, 3479, 3579, 4, 5}
942:116	$0, 0, 0, 0, 0, \frac{11}{565}\sqrt{82}e^{12}, \frac{121}{1695}\sqrt{6}e^{13}, \frac{22}{339}\sqrt{21}e^{16},$ $\frac{11}{1695}\sqrt{1146}e^{17} + \frac{22}{1695}\sqrt{942}e^{23}$	$(-\frac{11}{565}, -\frac{22}{565}, \frac{77}{565}, -\frac{143}{565}, \frac{176}{565}, -\frac{33}{565}, \frac{66}{565}, -\frac{44}{565}, \frac{11}{113})$ $+ \frac{11}{1695}\sqrt{3342}e^2 \otimes e_4 + \frac{22}{1695}\sqrt{915}e^3 \otimes e_8 + \frac{44}{339}\sqrt{6}e^5 \otimes e_9$	{134679, 349}
942:116	$0, 0, 0, 0, 0, \frac{12}{337}\sqrt{253}e^{12}, \frac{1}{337}\sqrt{48070}e^{13}, \frac{7}{337}\sqrt{506}e^{16},$ $\frac{1}{337}\sqrt{48070}e^{17} + \frac{23}{337}\sqrt{66}e^{23}$	$(\frac{26}{337}, \frac{52}{337}, \frac{29}{337}, -\frac{227}{337}, \frac{55}{337}, \frac{78}{337}, \frac{55}{337}, \frac{104}{337}, \frac{81}{337})$ $+ \frac{2}{337}\sqrt{35673}e^1 \otimes e_4$	{123589, 12389, 12578, 1278, 23456789, 2346789, 24568, 2468}
942:117	$0, 0, 0, 0, 0, \frac{14}{3693}\sqrt{6834}e^{12}, \frac{136}{3693}\sqrt{201}e^{13}, \frac{2}{3693}\sqrt{817802}e^{26},$ $\frac{2}{3693}\sqrt{129846}e^{17} + \frac{40}{3693}\sqrt{1139}e^{23}$	$(-\frac{188}{3693}, -\frac{376}{3693}, \frac{446}{1231}, \frac{529}{1231}, -\frac{691}{1231}, -\frac{188}{1231}, \frac{1150}{3693}, -\frac{940}{3693}, \frac{962}{3693})$ $+ \frac{2278}{3693}e^4 \otimes e_5 + \frac{6}{1231}\sqrt{29614}e^3 \otimes e_8$	{1349, 1359, 468, 568}
942:117	$0, 0, 0, 0, 0, \frac{74}{5861}\sqrt{59}e^{12}, \frac{37}{5861}\sqrt{2962}e^{13}, \frac{111}{5861}\sqrt{170}e^{26},$ $\frac{148}{5861}\sqrt{166}e^{17} + \frac{185}{5861}\sqrt{10}e^{23}$	$(-\frac{111}{5861}, -\frac{222}{5861}, \frac{814}{5861}, \frac{1480}{5861}, \frac{1961}{5861}, -\frac{333}{5861}, \frac{703}{5861}, -\frac{555}{5861}, \frac{592}{5861})$ $+ \frac{37}{5861}\sqrt{2822}e^5 \otimes e_9 + \frac{74}{5861}\sqrt{1015}e^1 \otimes e_4 + \frac{111}{5861}\sqrt{935}e^3 \otimes e_8$	{139, 4568}
942:117	$0, 0, 0, 0, 0, \frac{16}{2911}\sqrt{4290}e^{12}, \frac{16}{2911}\sqrt{3278}e^{13}, \frac{176}{2911}\sqrt{29}e^{26},$ $\frac{16}{2911}\sqrt{935}e^{17} + \frac{16}{2911}\sqrt{8855}e^{23}$	$(\frac{124}{2911}, \frac{248}{2911}, -\frac{206}{2911}, \frac{1450}{2911}, -\frac{1160}{2911}, \frac{372}{2911}, -\frac{2}{71}, \frac{620}{2911}, \frac{42}{2911})$ $+ \frac{16}{2911}\sqrt{12639}e^4 \otimes e_9 + \frac{16}{2911}\sqrt{16071}e^2 \otimes e_5$	{123478, 1289, 2346, 2679}
942:117	$0, 0, 0, 0, 0, \frac{18}{3361}\sqrt{2785}e^{12}, \frac{2}{3361}\sqrt{132009}e^{13}, \frac{2}{3361}\sqrt{495173}e^{26},$ $\frac{12}{3361}\sqrt{3899}e^{17} + \frac{2}{3361}\sqrt{386558}e^{23}$	$(-\frac{47}{3361}, -\frac{94}{3361}, \frac{879}{3361}, -\frac{1208}{3361}, \frac{343}{3361}, -\frac{141}{3361}, \frac{832}{3361}, -\frac{235}{3361}, \frac{785}{3361})$ $+ \frac{2}{3361}\sqrt{863907}e^2 \otimes e_4 + \frac{6}{3361}\sqrt{90791}e^3 \otimes e_8$	{125789, 12789, 23567, 2367}
942:117	$0, 0, 0, 0, 0, \frac{4}{1211}\sqrt{27699}e^{12}, \frac{26}{1211}\sqrt{1319}e^{13}, \frac{1}{1211}\sqrt{145090}e^{26},$ $\frac{1}{1211}\sqrt{2638}e^{17} + \frac{1}{1211}\sqrt{962870}e^{23}$	$(\frac{29}{1211}, \frac{58}{1211}, \frac{508}{1211}, \frac{811}{1211}, \frac{200}{1211}, \frac{87}{1211}, \frac{537}{1211}, \frac{145}{1211}, \frac{566}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_4$	{13589, 1389, 14578, 1478, 35679, 3679, 456, 46}
942:117	$0, 0, 0, 0, 0, \frac{16}{2911}\sqrt{4290}e^{12}, \frac{16}{2911}\sqrt{935}e^{13}, \frac{176}{2911}\sqrt{29}e^{26},$ $\frac{16}{2911}\sqrt{3278}e^{17} + \frac{16}{2911}\sqrt{8855}e^{23}$	$(\frac{124}{2911}, \frac{248}{2911}, \frac{560}{2911}, -\frac{1160}{2911}, -\frac{848}{2911}, \frac{372}{2911}, \frac{684}{2911}, \frac{620}{2911}, \frac{808}{2911})$ $+ \frac{16}{2911}\sqrt{12639}e^3 \otimes e_5 + \frac{16}{2911}\sqrt{16071}e^2 \otimes e_4$	{1238, 125789, 2367, 2569}
942:117	$0, 0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{4}{803}\sqrt{4342}e^{13}, \frac{2}{803}\sqrt{26553}e^{26},$ $\frac{4}{803}\sqrt{4342}e^{17} + \frac{2}{803}\sqrt{8851}e^{23}$	$(\frac{51}{803}, \frac{102}{803}, \frac{45}{803}, -\frac{283}{803}, -\frac{232}{803}, \frac{153}{803}, \frac{96}{803}, \frac{255}{803}, \frac{147}{803})$ $+ \frac{2}{803}\sqrt{63293}e^1 \otimes e_4 + \frac{4}{803}\sqrt{13694}e^2 \otimes e_5$	{12389, 1278, 234679, 246}
942:117	$0, 0, 0, 0, 0, \frac{12}{409}\sqrt{698}e^{12}, \frac{1}{409}\sqrt{39786}e^{13}, \frac{2}{409}\sqrt{18497}e^{26},$ $\frac{1}{409}\sqrt{39786}e^{17} + \frac{1}{409}\sqrt{63518}e^{23}$	$(\frac{34}{409}, \frac{68}{409}, \frac{30}{409}, -\frac{281}{409}, \frac{64}{409}, \frac{102}{409}, \frac{64}{409}, \frac{170}{409}, \frac{98}{409})$ $+ \frac{1}{409}\sqrt{240810}e^2 \otimes e_4$	{13456789, 1346789, 14568, 1468, 3459, 349, 457, 47}
942:117	$0, 0, 0, 0, 0, \frac{14}{227}\sqrt{30}e^{12}, \frac{28}{227}\sqrt{15}e^{13}, \frac{42}{227}\sqrt{6}e^{26},$ $\frac{28}{227}\sqrt{15}e^{17} + \frac{14}{227}\sqrt{59}e^{23}$	$(\frac{1}{227}, \frac{2}{227}, \frac{26}{227}, \frac{103}{227}, -\frac{97}{227}, \frac{3}{227}, \frac{27}{227}, \frac{5}{227}, \frac{28}{227})$ $+ \frac{28}{227}\sqrt{19}e^4 \otimes e_8 + \frac{28}{227}\sqrt{31}e^1 \otimes e_5$	{12389, 1278, 2345679, 2456}
942:117	$0, 0, 0, 0, 0, \frac{1}{102}\sqrt{978}e^{12}, \frac{1}{51}\sqrt{489}e^{13}, \frac{1}{102}\sqrt{2282}e^{26},$ $\frac{1}{51}\sqrt{489}e^{17} + \frac{1}{102}\sqrt{163}e^{23}$	$(\frac{11}{204}, \frac{11}{102}, \frac{5}{34}, 1, -\frac{61}{102}, \frac{11}{68}, \frac{41}{204}, \frac{55}{204}, \frac{13}{51})$ $+ \frac{163}{102}e^4 \otimes e_5$	{123489, 123589, 12478, 12578, 234679, 235679, 246, 256}
942:117	$0, 0, 0, 0, 0, \frac{249}{1693}\sqrt{6}e^{12}, \frac{6}{1693}\sqrt{11537}e^{13}, \frac{3}{1693}\sqrt{32370}e^{26},$ $\frac{3}{1693}\sqrt{39674}e^{17} + \frac{6}{1693}\sqrt{17015}e^{23}$	$(-\frac{88}{1693}, -\frac{176}{1693}, \frac{307}{1693}, \frac{878}{1693}, \frac{180}{1693}, -\frac{264}{1693}, \frac{219}{1693}, -\frac{440}{1693}, \frac{131}{1693})$ $+ \frac{3}{1693}\sqrt{135290}e^3 \otimes e_8 + \frac{6}{1693}\sqrt{28967}e^4 \otimes e_9$	{1359, 139, 4568, 468}
942:117	$0, 0, 0, 0, 0, \frac{7}{1277}\sqrt{6834}e^{12}, \frac{68}{1277}\sqrt{201}e^{13}, \frac{1}{1277}\sqrt{817802}e^{26},$ $\frac{1}{1277}\sqrt{129846}e^{17} + \frac{20}{1277}\sqrt{1139}e^{23}$	$(-\frac{94}{1277}, -\frac{188}{1277}, \frac{669}{1277}, \frac{224}{1277}, \frac{224}{1277}, -\frac{282}{1277}, \frac{575}{1277}, -\frac{470}{1277}, \frac{481}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^3 \otimes e_8$	{13459, 1349, 139, 4568, 468, 68}
942:117	$0, 0, 0, 0, 0, \frac{6}{1219}\sqrt{8277}e^{12}, \frac{2}{1219}\sqrt{21894}e^{13}, \frac{4}{1219}\sqrt{25098}e^{26},$ $\frac{6}{1219}\sqrt{21894}e^{17} + \frac{2}{1219}\sqrt{24297}e^{23}$	$(\frac{9}{1219}, \frac{18}{1219}, \frac{5}{53}, \frac{579}{1219}, -\frac{516}{1219}, \frac{27}{1219}, \frac{124}{1219}, \frac{45}{1219}, \frac{133}{1219})$ $+ \frac{16}{1219}\sqrt{2670}e^2 \otimes e_5 + \frac{2}{1219}\sqrt{121485}e^4 \otimes e_8$	{1356789, 1568, 3459, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:117	$0, 0, 0, 0, 0, \frac{2}{783}\sqrt{13598e^{12}}, \frac{1}{783}\sqrt{21966e^{13}}, \frac{1}{783}\sqrt{114014e^{26}},$ $\frac{2}{783}\sqrt{38179e^{17}} + \frac{1}{87}\sqrt{1046e^{23}}$	$(-\frac{23}{783}, -\frac{46}{783}, -\frac{10}{783}, \frac{136}{261}, \frac{467}{783}, -\frac{23}{261}, -\frac{11}{261}, -\frac{115}{783}, -\frac{56}{783})$ $+\frac{2}{783}\sqrt{82634e^4} \otimes e_8 + \frac{5}{783}\sqrt{15690e^5} \otimes e_9$	{1349, 1457, 36789, 568}
942:117	$0, 0, 0, 0, 0, \frac{8}{739}\sqrt{1281e^{12}}, \frac{12}{739}\sqrt{434e^{13}}, \frac{24}{739}\sqrt{70e^{26}},$ $\frac{12}{739}\sqrt{434e^{17}} + \frac{28}{739}\sqrt{210e^{23}}$	$(\frac{1}{739}, \frac{2}{739}, \frac{64}{739}, \frac{402}{739}, -\frac{272}{739}, \frac{3}{739}, \frac{65}{739}, \frac{5}{739}, \frac{66}{739})$ $+\frac{4}{739}\sqrt{14154e^3} \otimes e_5 + \frac{4}{739}\sqrt{14154e^4} \otimes e_9$	{1389, 14578, 3679, 456}
942:117	$0, 0, 0, 0, 0, \frac{4}{1211}\sqrt{27699e^{12}}, \frac{1}{1211}\sqrt{2638e^{13}}, \frac{1}{1211}\sqrt{145090e^{26}},$ $\frac{26}{1211}\sqrt{1319e^{17}} + \frac{1}{1211}\sqrt{962870e^{23}}$	$(\frac{29}{1211}, \frac{58}{1211}, -\frac{166}{1211}, 1, \frac{200}{1211}, \frac{87}{1211}, -\frac{137}{1211}, \frac{145}{1211}, -\frac{108}{1211})$ $+\frac{1}{1211}\sqrt{2667018e^4} \otimes e_9$	{13589, 1389, 14578, 1478, 35679, 3679, 456, 46}
942:117	$0, 0, 0, 0, 0, \frac{2}{783}\sqrt{13598e^{12}}, \frac{2}{783}\sqrt{38179e^{13}}, \frac{1}{783}\sqrt{114014e^{26}},$ $\frac{1}{783}\sqrt{21966e^{17}} + \frac{1}{87}\sqrt{1046e^{23}}$	$(-\frac{23}{783}, -\frac{46}{783}, \frac{80}{261}, \frac{136}{261}, -\frac{283}{783}, -\frac{23}{261}, \frac{217}{783}, -\frac{115}{783}, \frac{194}{783})$ $+\frac{2}{783}\sqrt{82634e^4} \otimes e_8 + \frac{5}{783}\sqrt{15690e^3} \otimes e_5$	{1349, 1457, 36789, 568}
942:117	$0, 0, 0, 0, 0, \frac{21}{142}\sqrt{2e^{12}}, \frac{3}{142}\sqrt{434e^{13}}, \frac{3}{142}\sqrt{119e^{26}},$ $\frac{6}{142}\sqrt{42e^{17}} + \frac{9}{142}\sqrt{14e^{23}}$	$(\frac{5}{142}, \frac{5}{71}, -\frac{11}{284}, \frac{135}{284}, -\frac{29}{71}, \frac{15}{142}, -\frac{1}{284}, \frac{25}{142}, \frac{9}{284})$ $+\frac{3}{142}\sqrt{1043e^1} \otimes e_5 + \frac{3}{142}\sqrt{714e^4} \otimes e_9$	{12389, 12478, 235679, 2456}
942:117	$0, 0, 0, 0, 0, \frac{21}{142}\sqrt{2e^{12}}, \frac{6}{71}\sqrt{42e^{13}}, \frac{3}{142}\sqrt{119e^{26}},$ $\frac{3}{142}\sqrt{434e^{17}} + \frac{9}{142}\sqrt{14e^{23}}$	$(\frac{5}{142}, \frac{5}{71}, \frac{57}{284}, -\frac{29}{71}, -\frac{69}{284}, \frac{15}{142}, \frac{67}{284}, \frac{25}{142}, \frac{77}{284})$ $+\frac{3}{142}\sqrt{1043e^1} \otimes e_4 + \frac{3}{142}\sqrt{714e^3} \otimes e_5$	{12389, 12578, 234679, 2456}
942:117	$0, 0, 0, 0, 0, \frac{38}{3265}\sqrt{127e^{12}}, \frac{38}{3265}\sqrt{155e^{13}}, \frac{38}{3265}\sqrt{565e^{26}},$ $\frac{38}{3265}\sqrt{42e^{17}} + \frac{228}{3265}\sqrt{22e^{23}}$	$(-\frac{57}{3265}, -\frac{114}{3265}, \frac{437}{3265}, -\frac{836}{3265}, \frac{209}{653}, -\frac{171}{3265}, \frac{76}{653}, -\frac{57}{653}, \frac{323}{3265})$ $+\frac{38}{3265}\sqrt{1103e^2} \otimes e_4 + \frac{38}{3265}\sqrt{1117e^3} \otimes e_8 + \frac{38}{3265}\sqrt{778e^5} \otimes e_9$	{145678, 3479}
942:117	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{195e^{12}}, \frac{4}{107}\sqrt{390e^{13}}, \frac{2}{107}\sqrt{663e^{26}},$ $\frac{4}{107}\sqrt{390e^{17}} + \frac{6}{107}\sqrt{143e^{23}}$	$(\frac{7}{107}, \frac{14}{107}, \frac{11}{107}, -\frac{71}{107}, \frac{18}{107}, \frac{21}{107}, \frac{18}{107}, \frac{35}{107}, \frac{25}{107})$ $+\frac{2}{107}\sqrt{3471e^1} \otimes e_4$	{123589, 12389, 12578, 1278, 2345679, 234679, 2456, 246}
942:117	$0, 0, 0, 0, 0, \frac{80}{3041}\sqrt{42e^{12}}, \frac{40}{3041}\sqrt{1407e^{13}}, \frac{10}{3041}\sqrt{13209e^{26}},$ $\frac{20}{3041}\sqrt{3486e^{17}} + \frac{30}{3041}\sqrt{707e^{23}}$	$(-\frac{47}{3041}, -\frac{94}{3041}, \frac{815}{3041}, \frac{1097}{3041}, \frac{360}{3041}, -\frac{141}{3041}, \frac{768}{3041}, -\frac{235}{3041}, \frac{721}{3041})$ $+\frac{10}{3041}\sqrt{30597e^1} \otimes e_4 + \frac{60}{3041}\sqrt{714e^3} \otimes e_8$	{12578, 1278, 2345679, 234679}
942:117	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{13e^{12}}, \frac{2}{21}\sqrt{26e^{13}}, \frac{4}{21}\sqrt{26e^{26}},$ $\frac{2}{21}\sqrt{26e^{17}} + \frac{2}{21}\sqrt{39e^{23}}$	$(-\frac{1}{21}, -\frac{2}{21}, \frac{5}{21}, 1, \frac{4}{21}, -\frac{1}{7}, \frac{4}{21}, -\frac{5}{21}, \frac{1}{7})$ $+\frac{2}{21}\sqrt{221e^4} \otimes e_8$	{123589, 12389, 12578, 1278, 2345679, 234679, 2456, 246}
942:118	$0, 0, 0, 0, 0, \frac{19}{1194}\sqrt{770e^{12}}, \frac{19}{1194}\sqrt{355e^{13}}, \frac{38}{597}\sqrt{30e^{16}},$ $\frac{19}{597}\sqrt{43e^{17}} + \frac{19}{597}\sqrt{31e^{24}}$	$(\frac{95}{1194}, \frac{95}{796}, -\frac{133}{597}, -\frac{437}{2388}, \frac{95}{398}, \frac{475}{2388}, -\frac{57}{398}, \frac{665}{2388}, -\frac{38}{597})$ $+\frac{19}{1194}\sqrt{385e^5} \otimes e_9 + \frac{19}{1194}\sqrt{746e^2} \otimes e_4 + \frac{38}{597}\sqrt{67e^1} \otimes e_3$	{23568, 345}
942:118	$0, 0, 0, 0, 0, \frac{1}{590}\sqrt{36034e^{12}}, \frac{1}{590}\sqrt{9637e^{13}}, \frac{2}{295}\sqrt{419e^{16}},$ $\frac{1}{295}\sqrt{17179e^{17}} + \frac{1}{295}\sqrt{16341e^{24}}$	$(-\frac{1}{10}, \frac{359}{1180}, \frac{29}{295}, -\frac{479}{1180}, \frac{359}{590}, \frac{241}{1180}, -\frac{1}{590}, \frac{123}{1180}, -\frac{6}{59})$ $+\frac{1}{590}\sqrt{193578e^2} \otimes e_4 + \frac{1}{590}\sqrt{242601e^5} \otimes e_9$	{1239, 134689, 23679, 34789}
942:118	$0, 0, 0, 0, 0, \frac{18}{3425}\sqrt{7843e^{12}}, \frac{54}{3425}\sqrt{598e^{13}}, \frac{6}{3425}\sqrt{95358e^{16}},$ $\frac{6}{3425}\sqrt{1311e^{17}} + \frac{6}{3425}\sqrt{16215e^{24}}$	$(\frac{429}{3425}, -\frac{489}{3425}, -\frac{813}{3425}, \frac{534}{3425}, \frac{1611}{3425}, -\frac{12}{685}, -\frac{384}{3425}, \frac{369}{3425}, \frac{9}{685})$ $+\frac{24}{3425}\sqrt{5658e^5} \otimes e_8 + \frac{6}{3425}\sqrt{125166e^1} \otimes e_3$	{128, 1456, 234689, 359}
942:118	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{24211e^{12}}, \frac{1}{278}\sqrt{23870e^{13}}, \frac{1}{139}\sqrt{20119e^{16}},$ $\frac{1}{278}\sqrt{27962e^{17}} + \frac{3}{139}\sqrt{341e^{24}}$	$(-\frac{29}{278}, -\frac{5}{278}, \frac{167}{556}, \frac{61}{556}, 1, -\frac{17}{139}, \frac{109}{556}, -\frac{63}{278}, \frac{51}{556})$ $+\frac{3}{278}\sqrt{17391e^5} \otimes e_8$	{123789, 1248, 1345679, 156, 23689, 24678, 3459, 57}
942:118	$0, 0, 0, 0, 0, \frac{30}{559}\sqrt{227e^{12}}, \frac{2}{559}\sqrt{25878e^{13}}, \frac{2}{559}\sqrt{45854e^{16}},$ $\frac{2}{559}\sqrt{15209e^{17}} + \frac{2}{559}\sqrt{15663e^{24}}$	$(\frac{179}{559}, -\frac{71}{559}, -\frac{275}{559}, \frac{154}{559}, \frac{85}{559}, \frac{108}{559}, -\frac{96}{559}, \frac{287}{559}, \frac{83}{559})$ $+\frac{2}{559}\sqrt{107598e^1} \otimes e_3$	{124589, 12489, 1569, 169, 23568, 2368, 34, 345}
942:118	$0, 0, 0, 0, 0, \frac{158}{3001}\sqrt{105e^{12}}, \frac{48}{3001}\sqrt{553e^{13}}, \frac{12}{3001}\sqrt{12719e^{16}},$ $\frac{2}{3001}\sqrt{70231e^{17}} + \frac{2}{3001}\sqrt{82397e^{24}}$	$(\frac{471}{3001}, \frac{171}{3001}, -\frac{635}{3001}, \frac{136}{3001}, -\frac{935}{3001}, \frac{642}{3001}, -\frac{164}{3001}, \frac{1113}{3001}, \frac{307}{3001})$ $+\frac{4}{3001}\sqrt{168665e^2} \otimes e_5 + \frac{4}{3001}\sqrt{206822e^1} \otimes e_3$	{1248, 156, 23689, 3459}
942:118	$0, 0, 0, 0, 0, \frac{13}{2775}\sqrt{6018e^{12}}, \frac{26}{925}\sqrt{97e^{13}}, \frac{13}{2775}\sqrt{5442e^{16}},$ $\frac{13}{2775}\sqrt{714e^{17}} + \frac{52}{925}\sqrt{10e^{24}}$	$(\frac{104}{2775}, \frac{52}{925}, -\frac{403}{2775}, -\frac{925}{2775}, \frac{871}{2775}, \frac{52}{555}, -\frac{299}{2775}, \frac{364}{2775}, -\frac{13}{185})$ $+\frac{13}{2775}\sqrt{4242e^5} \otimes e_8 + \frac{13}{2775}\sqrt{4530e^2} \otimes e_4 + \frac{13}{925}\sqrt{766e^1} \otimes e_3$	{128, 1456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:118	$0, 0, 0, 0, 0, \frac{1}{729}\sqrt{131794e^{12}}, \frac{1}{243}\sqrt{4810e^{13}}, \frac{74}{729}\sqrt{26e^{16}},$ $\frac{1}{729}\sqrt{66378e^{17}} + \frac{1}{729}\sqrt{4810e^{24}}$	$(-\frac{178}{729}, \frac{250}{729}, \frac{125}{243}, -\frac{77}{243}, \frac{83}{729}, \frac{8}{81}, \frac{197}{729}, -\frac{106}{729}, \frac{19}{729})$ $+\frac{1}{729}\sqrt{297258e^2} \otimes e_4 + \frac{1}{729}\sqrt{324194e^3} \otimes e_8$	{125789, 12789, 25689, 2689}
942:118	$0, 0, 0, 0, 0, \frac{1}{48}\sqrt{214e^{12}}, \frac{5}{96}\sqrt{214e^{13}}, \frac{5}{96}\sqrt{214e^{16}},$ $\frac{1}{48}\sqrt{214e^{17}} + \frac{1}{96}\sqrt{1819e^{24}}$	$(-\frac{49}{192}, \frac{13}{96}, \frac{71}{96}, \frac{3}{32}, \frac{35}{192}, -\frac{23}{192}, \frac{31}{64}, -\frac{3}{8}, \frac{11}{48})$ $+\frac{1}{96}\sqrt{16799e^3} \otimes e_8$	{123456, 12346, 145789, 14789, 23457, 2347, 45689, 4689}
942:118	$0, 0, 0, 0, 0, \frac{78}{1127}\sqrt{23e^{12}}, \frac{104}{1127}\sqrt{10e^{13}}, \frac{78}{1127}\sqrt{41e^{16}},$ $\frac{26}{1127}\sqrt{295e^{17}} + \frac{234}{1127}\sqrt{5e^{24}}$	$(-\frac{25}{1127}, -\frac{41}{1127}, \frac{256}{1127}, \frac{247}{1127}, -\frac{379}{1127}, -\frac{66}{1127}, \frac{33}{161}, -\frac{13}{161}, \frac{206}{1127})$ $+\frac{130}{1127}\sqrt{19e^2} \otimes e_5 + \frac{52}{1127}\sqrt{139e^4} \otimes e_8$	{123789, 1345679, 23689, 3459}
942:118	$0, 0, 0, 0, 0, \frac{14}{2889}\sqrt{7259e^{12}}, \frac{14}{2889}\sqrt{10302e^{13}}, \frac{56}{2889}\sqrt{170e^{16}},$ $\frac{14}{2889}\sqrt{7905e^{17}} + \frac{14}{2889}\sqrt{9265e^{24}}$	$(-\frac{469}{2889}, \frac{217}{2889}, \frac{35}{107}, -\frac{70}{963}, \frac{1673}{2889}, -\frac{28}{321}, \frac{476}{2889}, -\frac{721}{2889}, \frac{7}{2889})$ $+\frac{112}{2889}\sqrt{323e^3} \otimes e_8 + \frac{14}{2889}\sqrt{22746e^5} \otimes e_9$	{12369, 1578, 2379, 568}
942:118	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{14065e^{12}}, \frac{8}{281}\sqrt{290e^{13}}, \frac{2}{281}\sqrt{6670e^{16}},$ $\frac{2}{281}\sqrt{8555e^{17}} + \frac{18}{281}\sqrt{145e^{24}}$	$(-\frac{5}{281}, \frac{103}{281}, \frac{79}{281}, -\frac{34}{281}, -\frac{187}{281}, \frac{98}{281}, \frac{74}{281}, \frac{93}{281}, \frac{69}{281})$ $+\frac{6}{281}\sqrt{3770e^2} \otimes e_5$	{123789, 1248, 1345679, 156, 23689, 24678, 3459, 57}
942:118	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{27962e^{12}}, \frac{139}{278}\sqrt{20119e^{13}}, \frac{1}{278}\sqrt{23870e^{16}},$ $\frac{1}{278}\sqrt{24211e^{17}} + \frac{3}{139}\sqrt{341e^{24}}$	$(-\frac{29}{278}, \frac{143}{556}, \frac{80}{139}, \frac{61}{139}, -\frac{181}{278}, \frac{85}{556}, \frac{131}{278}, \frac{27}{556}, \frac{51}{139})$ $+\frac{3}{278}\sqrt{17391e^3} \otimes e_5$	{123689, 1245678, 1349, 157, 23789, 2458, 34679, 56}
942:118	$0, 0, 0, 0, 0, \frac{14}{587}\sqrt{237e^{12}}, \frac{14}{587}\sqrt{102e^{13}}, \frac{28}{587}\sqrt{66e^{16}},$ $\frac{14}{587}\sqrt{393e^{17}} + \frac{126}{587}e^{24}$	$(\frac{97}{587}, -\frac{41}{587}, -\frac{197}{587}, \frac{38}{587}, \frac{291}{587}, \frac{56}{587}, -\frac{100}{587}, \frac{153}{587}, -\frac{3}{587})$ $+\frac{14}{587}\sqrt{678e^5} \otimes e_9 + \frac{28}{587}\sqrt{222e^1} \otimes e_3$	{1289, 1469, 234568, 35}
942:118	$0, 0, 0, 0, 0, \frac{4}{375}\sqrt{1419e^{12}}, \frac{1}{375}\sqrt{21758e^{13}}, \frac{1}{375}\sqrt{21758e^{16}},$ $\frac{4}{375}\sqrt{1419e^{17}} + \frac{1}{375}\sqrt{133386e^{24}}$	$(\frac{14}{75}, -\frac{49}{375}, \frac{3}{25}, \frac{78}{125}, -\frac{239}{375}, \frac{7}{125}, \frac{23}{75}, \frac{91}{375}, \frac{37}{75})$ $+\frac{1}{375}\sqrt{290422e^4} \otimes e_5$	{12346, 125679, 1358, 14789, 2347, 259, 35678, 4689}
942:118	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{55e^{12}}, \frac{2}{49}\sqrt{190e^{13}}, \frac{2}{49}\sqrt{190e^{16}},$ $\frac{4}{49}\sqrt{55e^{17}} + \frac{6}{49}\sqrt{10e^{24}}$	$(\frac{8}{49}, \frac{2}{49}, -\frac{1}{49}, \frac{13}{49}, -\frac{32}{49}, \frac{10}{49}, \frac{1}{7}, \frac{18}{49}, \frac{15}{49})$ $+\frac{18}{49}\sqrt{10e^1} \otimes e_5$	{123489, 1278, 1369, 1467, 23456789, 2568, 3579, 45}
942:118	$0, 0, 0, 0, 0, \frac{4}{171}\sqrt{505e^{12}}, \frac{1}{171}\sqrt{4242e^{13}}, \frac{1}{171}\sqrt{8686e^{16}},$ $\frac{4}{171}\sqrt{101e^{17}} + \frac{1}{57}\sqrt{202e^{24}}$	$(\frac{46}{171}, -\frac{29}{171}, -\frac{55}{171}, \frac{22}{57}, -\frac{35}{171}, \frac{17}{171}, -\frac{1}{19}, \frac{7}{19}, \frac{37}{171})$ $+\frac{1}{171}\sqrt{11110e^4} \otimes e_5 + \frac{8}{171}\sqrt{303e^1} \otimes e_3$	{12589, 1469, 23468, 35}
942:118	$0, 0, 0, 0, 0, \frac{1}{674}\sqrt{97582e^{12}}, \frac{1}{337}\sqrt{23641e^{13}}, \frac{1}{674}\sqrt{5030e^{16}},$ $\frac{1}{674}\sqrt{3521e^{17}} + \frac{1}{337}\sqrt{1509e^{24}}$	$(-\frac{107}{674}, \frac{569}{1348}, \frac{140}{337}, -\frac{437}{1348}, -\frac{223}{674}, \frac{355}{1348}, \frac{173}{674}, \frac{141}{1348}, \frac{33}{337})$ $+\frac{1}{674}\sqrt{300291e^3} \otimes e_5 + \frac{5}{337}\sqrt{3018e^2} \otimes e_4$	{123, 13468, 2367, 3478}
942:118	$0, 0, 0, 0, 0, \frac{2}{299}\sqrt{1581e^{12}}, \frac{2}{299}\sqrt{3417e^{13}}, \frac{2}{299}\sqrt{3417e^{16}},$ $\frac{2}{299}\sqrt{1581e^{17}} + \frac{2}{299}\sqrt{510e^{24}}$	$(-\frac{15}{299}, \frac{11}{299}, \frac{83}{299}, \frac{42}{299}, -\frac{9}{23}, -\frac{4}{299}, \frac{68}{299}, -\frac{19}{299}, \frac{53}{299})$ $+\frac{2}{299}\sqrt{6018e^3} \otimes e_8 + \frac{2}{299}\sqrt{7599e^1} \otimes e_5$	{1278, 1369, 2568, 3579}
942:118	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{46018e^{12}}, \frac{1}{407}\sqrt{6055e^{13}}, \frac{1}{407}\sqrt{23701e^{16}},$ $\frac{1}{407}\sqrt{10726e^{17}} + \frac{9}{407}\sqrt{173e^{24}}$	$(\frac{4}{407}, \frac{103}{407}, \frac{25}{407}, -\frac{70}{407}, -\frac{169}{407}, \frac{107}{407}, \frac{29}{407}, \frac{3}{11}, \frac{3}{37})$ $+\frac{3}{407}\sqrt{5882e^2} \otimes e_4 + \frac{3}{407}\sqrt{8131e^1} \otimes e_5$	{1278, 1467, 2568, 45}
942:118	$0, 0, 0, 0, 0, \frac{4}{2631}\sqrt{67574e^{12}}, \frac{4}{2631}\sqrt{54579e^{13}}, \frac{4}{2631}\sqrt{124639e^{16}},$ $\frac{4}{2631}\sqrt{22035e^{17}} + \frac{4}{2631}\sqrt{38533e^{24}}$	$(\frac{434}{2631}, -\frac{229}{877}, -\frac{470}{2631}, \frac{1085}{2631}, \frac{84}{877}, -\frac{253}{2631}, -\frac{12}{877}, \frac{181}{2631}, \frac{398}{2631})$ $+\frac{4}{2631}\sqrt{132662e^4} \otimes e_8 + \frac{4}{2631}\sqrt{136165e^1} \otimes e_3$	{235689, 23689, 3459, 349}
942:118	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{26e^{12}}, \frac{1}{11}\sqrt{13e^{13}}, \frac{1}{22}\sqrt{130e^{16}},$ $\frac{1}{22}\sqrt{65e^{17}} + \frac{1}{11}\sqrt{39e^{24}}$	$(-\frac{1}{22}, -\frac{5}{44}, \frac{4}{11}, \frac{17}{44}, -\frac{5}{22}, -\frac{7}{44}, \frac{7}{22}, -\frac{9}{44}, \frac{3}{11})$ $+\frac{1}{11}\sqrt{78e^4} \otimes e_8 + \frac{1}{22}\sqrt{195e^3} \otimes e_5$	{12346, 138, 2347, 3678}
942:118	$0, 0, 0, 0, 0, \frac{4}{223}\sqrt{187e^{12}}, \frac{5}{223}\sqrt{374e^{13}}, \frac{1}{223}\sqrt{37774e^{16}},$ $\frac{11}{223}\sqrt{170e^{17}} + \frac{6}{223}\sqrt{935e^{24}}$	$(\frac{5}{223}, -\frac{64}{223}, \frac{59}{223}, \frac{133}{223}, \frac{34}{223}, -\frac{59}{223}, \frac{64}{223}, -\frac{54}{223}, \frac{69}{223})$ $+\frac{3}{223}\sqrt{7854e^4} \otimes e_8$	{1235789, 123789, 1345679, 134679, 235689, 23689, 3459, 349}
942:118	$0, 0, 0, 0, 0, \frac{49}{5085}\sqrt{154e^{12}}, \frac{49}{5085}\sqrt{1122e^{13}}, \frac{98}{5085}\sqrt{209e^{16}},$ $\frac{49}{5085}\sqrt{6e^{17}} + \frac{98}{5085}\sqrt{286e^{24}}$	$(-\frac{931}{5085}, \frac{1078}{5085}, \frac{539}{1695}, -\frac{147}{565}, \frac{2156}{5085}, \frac{49}{1695}, \frac{686}{5085}, -\frac{784}{5085}, -\frac{49}{1017})$ $+\frac{1274}{5085}\sqrt{5e^3} \otimes e_8 + \frac{49}{5085}\sqrt{2478e^2} \otimes e_4 + \frac{98}{5085}\sqrt{834e^5} \otimes e_9$	{13469, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:118	$0, 0, 0, 0, 0, \frac{17}{573}\sqrt{59}e^{12}, \frac{17}{1146}\sqrt{231}e^{13}, \frac{17}{1146}\sqrt{646}e^{16},$ $\frac{17}{573}\sqrt{15}e^{17} + \frac{17}{573}\sqrt{103}e^{24}$	$(\frac{119}{1146}, -\frac{153}{764}, -\frac{85}{573}, \frac{595}{2292}, \frac{119}{382}, -\frac{221}{2292}, -\frac{17}{382}, \frac{17}{2292}, \frac{34}{573})$ $+ \frac{17}{1146}\sqrt{818}e^4 \otimes e_8 + \frac{17}{573}\sqrt{190}e^1 \otimes e_3 + \frac{85}{1146}\sqrt{21}e^5 \otimes e_9$	{1289, 1469}
942:118	$0, 0, 0, 0, 0, \frac{14}{2889}\sqrt{7905}e^{12}, \frac{56}{2889}\sqrt{170}e^{13}, \frac{14}{2889}\sqrt{10302}e^{16},$ $\frac{14}{2889}\sqrt{7259}e^{17} + \frac{14}{2889}\sqrt{9265}e^{24}$	$(-\frac{469}{2889}, \frac{221}{963}, \frac{13}{27}, -\frac{70}{963}, -\frac{1003}{2889}, \frac{194}{2889}, \frac{922}{2889}, -\frac{275}{2889}, \frac{151}{963})$ $+ \frac{112}{2889}\sqrt{323}e^3 \otimes e_8 + \frac{14}{2889}\sqrt{22746}e^2 \otimes e_5$	{12789, 1356, 2689, 357}
942:118	$0, 0, 0, 0, 0, \frac{2}{1107}\sqrt{110514}e^{12}, \frac{4}{369}\sqrt{1695}e^{13}, \frac{16}{1107}\sqrt{1695}e^{16},$ $\frac{10}{1107}\sqrt{2373}e^{17} + \frac{2}{369}\sqrt{565}e^{24}$	$(-\frac{185}{1107}, \frac{11}{41}, \frac{286}{1107}, -\frac{127}{369}, \frac{605}{1107}, \frac{112}{1107}, \frac{101}{1107}, -\frac{73}{1107}, -\frac{28}{369})$ $+ \frac{2}{1107}\sqrt{169161}e^5 \otimes e_8 + \frac{2}{1107}\sqrt{170178}e^2 \otimes e_4$	{128, 1456, 2678, 457}
942:118	$0, 0, 0, 0, 0, \frac{10}{369}\sqrt{113}e^{12}, \frac{4}{369}\sqrt{1695}e^{13}, \frac{4}{369}\sqrt{1695}e^{16},$ $\frac{10}{369}\sqrt{113}e^{17} + \frac{2}{369}\sqrt{9266}e^{24}$	$(-\frac{28}{369}, -\frac{5}{123}, \frac{155}{369}, \frac{38}{123}, -\frac{112}{369}, -\frac{43}{369}, \frac{127}{369}, -\frac{71}{369}, \frac{11}{41})$ $+ \frac{2}{369}\sqrt{17402}e^4 \otimes e_5 + \frac{2}{369}\sqrt{19549}e^3 \otimes e_8$	{12346, 14789, 2347, 4689}
942:118	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{9269}e^{12}, \frac{1}{686}\sqrt{299}e^{13}, \frac{1}{343}\sqrt{79534}e^{16},$ $\frac{1}{343}\sqrt{1495}e^{17} + \frac{1}{343}\sqrt{36777}e^{24}$	$(-\frac{11}{686}, -\frac{229}{1372}, \frac{5}{49}, \frac{325}{1372}, \frac{347}{686}, -\frac{251}{1372}, \frac{59}{686}, -\frac{39}{196}, \frac{24}{343})$ $+ \frac{1}{686}\sqrt{165945}e^5 \otimes e_9 + \frac{1}{686}\sqrt{202722}e^4 \otimes e_8$	{1234567, 13578, 2345, 3568}
942:118	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{8555}e^{12}, \frac{2}{281}\sqrt{6670}e^{13}, \frac{8}{281}\sqrt{290}e^{16},$ $\frac{2}{281}\sqrt{14065}e^{17} + \frac{18}{281}\sqrt{145}e^{24}$	$(-\frac{5}{281}, \frac{25}{281}, \frac{1}{281}, \frac{34}{281}, \frac{1}{281}, \frac{20}{281}, -\frac{4}{281}, \frac{15}{281}, -\frac{9}{281})$ $+ \frac{6}{281}\sqrt{3770}e^5 \otimes e_9$	{123689, 1245678, 1349, 157, 23789, 2458, 34679, 56}
942:118	$0, 0, 0, 0, 0, \frac{20}{61}e^{12}, \frac{10}{61}e^{13}, \frac{10}{61}\sqrt{10}e^{16}, \frac{5}{61}\sqrt{2}e^{17} + \frac{15}{61}\sqrt{2}e^{24}$	$(\frac{5}{61}, -\frac{10}{61}, \frac{5}{61}, \frac{25}{61}, -\frac{20}{61}, -\frac{5}{61}, \frac{10}{61}, 0, \frac{15}{61})$ $+ \frac{15}{61}\sqrt{6}e^1 \otimes e_5 + \frac{15}{61}\sqrt{6}e^4 \otimes e_8$	{12789, 14679, 25689, 459}
942:118	$0, 0, 0, 0, 0, \frac{5}{1091}\sqrt{51034}e^{12}, \frac{1}{1091}\sqrt{400214}e^{13}, \frac{2}{1091}\sqrt{103411}e^{16},$ $\frac{1}{1091}\sqrt{351866}e^{17} + \frac{6}{1091}\sqrt{4029}e^{24}$	$(-\frac{167}{1091}, \frac{670}{1091}, \frac{331}{1091}, -\frac{673}{1091}, \frac{182}{1091}, \frac{503}{1091}, \frac{164}{1091}, \frac{336}{1091}, -\frac{3}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^2 \otimes e_4$	{1258, 128, 1456, 146, 25678, 2678, 457, 47}
942:118	$0, 0, 0, 0, 0, \frac{8}{497}\sqrt{1155}e^{12}, \frac{12}{71}\sqrt{5}e^{13}, \frac{36}{497}\sqrt{35}e^{16},$ $\frac{12}{497}\sqrt{7}e^{17} + \frac{4}{497}\sqrt{1281}e^{24}$	$(\frac{50}{497}, \frac{75}{497}, -\frac{118}{497}, -\frac{93}{497}, \frac{40}{497}, \frac{125}{497}, -\frac{68}{497}, \frac{25}{497}, -\frac{18}{497})$ $+ \frac{4}{497}\sqrt{4074}e^2 \otimes e_4 + \frac{4}{497}\sqrt{5523}e^1 \otimes e_3$	{23568, 2368, 34, 345}
942:119	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{2}e^{13}, \frac{2}{9}\sqrt{10}e^{26}, \frac{4}{9}e^{17} + \frac{2}{9}\sqrt{6}e^{24}$	$(0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9}, \frac{2}{9})$ $+ \frac{2}{9}\sqrt{30}e^2 \otimes e_5$	{123789, 1248, 13456789, 1568, 2369, 2467, 3459, 57}
942:119	$0, 0, 0, 0, 0, \frac{1}{1323}\sqrt{1326534}e^{12}, \frac{1}{1323}\sqrt{295526}e^{13}, \frac{2}{1323}\sqrt{301081}e^{26},$ $\frac{8}{1323}\sqrt{1111}e^{17} + \frac{101}{1323}\sqrt{66}e^{24}$	$(-\frac{26}{147}, \frac{487}{1323}, \frac{331}{1323}, -\frac{208}{441}, \frac{22}{147}, \frac{253}{1323}, \frac{97}{1323}, \frac{740}{1323}, -\frac{137}{1323})$ $+ \frac{5}{441}\sqrt{11110}e^2 \otimes e_4$	{1258, 128, 14568, 1468, 2567, 267, 457, 47}
942:119	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2759}e^{12}, \frac{4}{169}\sqrt{445}e^{13}, \frac{4}{169}\sqrt{178}e^{26},$ $\frac{14}{169}\sqrt{89}e^{17} + \frac{4}{169}\sqrt{4717}e^{24}$	$(-\frac{9}{169}, \frac{15}{169}, \frac{9}{169}, -\frac{24}{169}, \frac{1}{169}, \frac{6}{169}, 0, \frac{21}{169}, -\frac{9}{169})$ $+ \frac{4}{169}\sqrt{3115}e^5 \otimes e_9$	{123689, 1245678, 13489, 1578, 2379, 245, 34679, 56}
942:119	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{858}e^{12}, \frac{1}{57}\sqrt{3003}e^{13}, \frac{1}{114}\sqrt{1430}e^{26},$ $\frac{1}{38}\sqrt{286}e^{17} + \frac{13}{114}\sqrt{11}e^{24}$	$(-\frac{35}{228}, \frac{11}{57}, \frac{12}{19}, \frac{5}{38}, -\frac{71}{114}, \frac{3}{76}, \frac{109}{228}, \frac{53}{228}, \frac{37}{114})$ $+ \frac{1}{114}\sqrt{26455}e^3 \otimes e_5$	{12369, 124567, 1349, 157, 23789, 2458, 346789, 568}
942:119	$0, 0, 0, 0, 0, \frac{39}{4733}\sqrt{1190}e^{12}, \frac{39}{4733}\sqrt{1082}e^{13}, \frac{78}{4733}\sqrt{737}e^{26},$ $\frac{156}{4733}\sqrt{41}e^{17} + \frac{39}{4733}\sqrt{818}e^{24}$	$(-\frac{1014}{4733}, \frac{585}{4733}, \frac{1677}{4733}, -\frac{936}{4733}, \frac{1170}{4733}, -\frac{429}{4733}, \frac{663}{4733}, \frac{156}{4733}, -\frac{351}{4733})$ $+ \frac{156}{4733}\sqrt{221}e^3 \otimes e_8 + \frac{39}{4733}\sqrt{3590}e^2 \otimes e_4 + \frac{468}{4733}\sqrt{10}e^5 \otimes e_9$	{12578, 145678}
942:119	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{5617}e^{12}, \frac{4}{441}\sqrt{3151}e^{13}, \frac{4}{441}\sqrt{2055}e^{26},$ $\frac{2}{441}\sqrt{685}e^{17} + \frac{2}{441}\sqrt{10686}e^{24}$	$(-\frac{4}{441}, -\frac{5}{49}, \frac{143}{441}, \frac{20}{49}, -\frac{131}{441}, -\frac{1}{9}, \frac{139}{441}, -\frac{94}{441}, \frac{15}{49})$ $+ \frac{2}{441}\sqrt{25071}e^3 \otimes e_5 + \frac{2}{441}\sqrt{28222}e^4 \otimes e_8$	{124567, 1349, 23789, 568}
942:119	$0, 0, 0, 0, 0, \frac{10}{3141}\sqrt{8855}e^{12}, \frac{20}{3141}\sqrt{5005}e^{13}, \frac{50}{1047}\sqrt{77}e^{26},$ $\frac{70}{3141}\sqrt{385}e^{17} + \frac{10}{1047}\sqrt{385}e^{24}$	$(\frac{605}{3141}, -\frac{145}{1047}, -\frac{160}{3141}, \frac{165}{349}, -\frac{1145}{3141}, \frac{170}{3141}, \frac{445}{3141}, -\frac{265}{3141}, \frac{350}{1047})$ $+ \frac{10}{1047}\sqrt{6055}e^1 \otimes e_5 + \frac{20}{3141}\sqrt{10255}e^4 \otimes e_8$	{12389, 1678, 2456, 34579}
942:119	$0, 0, 0, 0, 0, \frac{4}{3177}\sqrt{111430}e^{12}, \frac{8}{3177}\sqrt{1013}e^{13}, \frac{2}{3177}\sqrt{548033}e^{26},$ $\frac{8}{1059}\sqrt{3039}e^{17} + \frac{2}{3177}\sqrt{106365}e^{24}$	$(\frac{985}{3177}, -\frac{694}{1059}, -\frac{347}{1059}, \frac{541}{1059}, \frac{392}{3177}, \frac{97}{1059}, -\frac{56}{3177}, -\frac{403}{3177}, \frac{929}{3177})$ $+ \frac{2}{1059}\sqrt{163093}e^1 \otimes e_3 + \frac{4}{3177}\sqrt{338342}e^4 \otimes e_8$	{12589, 1289, 23456, 2346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:119	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{330}e^{12}, \frac{1}{54}\sqrt{858}e^{13}, \frac{1}{18}\sqrt{66}e^{26},$ $\frac{1}{18}\sqrt{11}e^{17} + \frac{1}{54}\sqrt{462}e^{24}$	$(-\frac{1}{18}, -\frac{1}{12}, \frac{7}{18}, \frac{13}{36}, -\frac{1}{4}, -\frac{5}{36}, \frac{1}{3}, -\frac{2}{9}, \frac{5}{18})$ $+\frac{11}{54}\sqrt{15}e^3 \otimes e_8 + \frac{1}{27}\sqrt{330}e^4 \otimes e_5$	{123569, 1349, 248, 568}
942:119	$0, 0, 0, 0, 0, \frac{2}{653}\sqrt{15743}e^{12}, \frac{2}{653}\sqrt{27334}e^{13}, \frac{4}{653}\sqrt{4498}e^{26},$ $\frac{2}{653}\sqrt{21279}e^{17} + \frac{2}{653}\sqrt{12283}e^{24}$	$(-\frac{111}{653}, -\frac{5}{653}, \frac{225}{653}, \frac{8}{653}, \frac{349}{653}, -\frac{116}{653}, \frac{114}{653}, -\frac{121}{653}, \frac{3}{653})$ $+\frac{6}{653}\sqrt{5190}e^5 \otimes e_9 + \frac{8}{653}\sqrt{3287}e^3 \otimes e_8$	{12369, 1349, 2458, 568}
942:119	$0, 0, 0, 0, 0, \frac{6}{503}\sqrt{465}e^{12}, \frac{12}{503}\sqrt{30}e^{13}, \frac{12}{503}\sqrt{30}e^{26},$ $\frac{126}{503}\sqrt{5}e^{17} + \frac{6}{503}\sqrt{465}e^{24}$	$(\frac{93}{503}, -\frac{15}{503}, \frac{177}{503}, \frac{24}{503}, \frac{279}{503}, \frac{78}{503}, -\frac{84}{503}, \frac{63}{503}, \frac{9}{503})$ $+\frac{24}{503}\sqrt{210}e^1 \otimes e_3 + \frac{24}{503}\sqrt{210}e^5 \otimes e_9$	{124578, 15678, 23679, 3479}
942:119	$0, 0, 0, 0, 0, \frac{2}{3541}\sqrt{695595}e^{12}, \frac{8}{3541}\sqrt{8805}e^{13}, \frac{2}{3541}\sqrt{535931}e^{26},$ $\frac{2}{3541}\sqrt{285869}e^{17} + \frac{2}{3541}\sqrt{434967}e^{24}$	$(-\frac{7}{3541}, \frac{641}{3541}, \frac{122}{3541}, -\frac{533}{3541}, -\frac{1181}{3541}, \frac{634}{3541}, \frac{115}{3541}, \frac{1275}{3541}, \frac{108}{3541})$ $+\frac{2}{3541}\sqrt{905741}e^1 \otimes e_5 + \frac{4}{3541}\sqrt{240083}e^2 \otimes e_4$	{1278, 14678, 256, 45}
942:119	$0, 0, 0, 0, 0, \frac{51}{7321}\sqrt{110}e^{12}, \frac{51}{7321}\sqrt{470}e^{13}, \frac{408}{7321}\sqrt{17}e^{26},$ $\frac{408}{7321}\sqrt{42}e^{17} + \frac{51}{7321}\sqrt{2362}e^{24}$	$(\frac{1071}{7321}, -\frac{1020}{7321}, -\frac{1530}{7321}, \frac{1632}{7321}, \frac{3213}{7321}, \frac{51}{7321}, -\frac{459}{7321}, -\frac{969}{7321}, \frac{612}{7321})$ $+\frac{51}{7321}\sqrt{3890}e^1 \otimes e_3 + \frac{51}{7321}\sqrt{4326}e^4 \otimes e_8 + \frac{51}{7321}\sqrt{5126}e^5 \otimes e_9$	{124567, 23789}
942:119	$0, 0, 0, 0, 0, \frac{82}{9805}\sqrt{1607}e^{12}, \frac{41}{9805}\sqrt{1718}e^{13}, \frac{41}{9805}\sqrt{6062}e^{26},$ $\frac{41}{9805}\sqrt{1606}e^{17} + \frac{41}{9805}\sqrt{4274}e^{24}$	$(\frac{328}{9805}, \frac{492}{9805}, -\frac{1353}{9805}, -\frac{1189}{9805}, \frac{2993}{9805}, \frac{164}{9805}, -\frac{205}{9805}, \frac{1312}{9805}, \frac{697}{9805})$ $+\frac{41}{9805}\sqrt{5698}e^1 \otimes e_3 + \frac{41}{9805}\sqrt{7926}e^2 \otimes e_4 + \frac{82}{9805}\sqrt{1178}e^5 \otimes e_8$	{2356, 345}
942:119	$0, 0, 0, 0, 0, \frac{1}{503}\sqrt{65155}e^{12}, \frac{1}{503}\sqrt{17270}e^{13}, \frac{5}{503}\sqrt{1727}e^{26},$ $\frac{1}{503}\sqrt{17113}e^{17} + \frac{1}{503}\sqrt{37366}e^{24}$	$(\frac{45}{503}, \frac{135}{1006}, -\frac{112}{503}, -\frac{179}{1006}, \frac{85}{1006}, \frac{225}{1006}, -\frac{67}{503}, \frac{180}{503}, -\frac{22}{503})$ $+\frac{1}{503}\sqrt{65783}e^1 \otimes e_3 + \frac{1}{503}\sqrt{78814}e^2 \otimes e_4$	{2356, 236, 34, 345}
942:119	$0, 0, 0, 0, 0, \frac{4}{1107}\sqrt{8319}e^{12}, \frac{94}{1107}\sqrt{2}e^{13}, \frac{2}{1107}\sqrt{53674}e^{26},$ $\frac{4}{1107}\sqrt{5029}e^{17} + \frac{2}{1107}\sqrt{47094}e^{24}$	$(\frac{20}{369}, -\frac{62}{1107}, \frac{130}{1107}, \frac{104}{369}, -\frac{146}{369}, -\frac{2}{1107}, \frac{190}{1107}, -\frac{64}{1107}, \frac{250}{1107})$ $+\frac{22}{369}\sqrt{94}e^2 \otimes e_5 + \frac{8}{1107}\sqrt{5358}e^4 \otimes e_8$	{123789, 1568, 2467, 3459}
942:119	$0, 0, 0, 0, 0, \frac{2}{1307}\sqrt{100435}e^{12}, \frac{4}{1307}\sqrt{3790}e^{13}, \frac{2}{1307}\sqrt{112942}e^{26},$ $\frac{14}{1307}\sqrt{1895}e^{17} + \frac{2}{1307}\sqrt{83759}e^{24}$	$(\frac{309}{1307}, -\frac{197}{1307}, -\frac{449}{1307}, \frac{366}{1307}, \frac{673}{1307}, \frac{112}{1307}, -\frac{140}{1307}, -\frac{85}{1307}, \frac{169}{1307})$ $+\frac{2}{1307}\sqrt{240286}e^1 \otimes e_3 + \frac{8}{1307}\sqrt{12507}e^5 \otimes e_8$	{12489, 1689, 2356, 345}
942:119	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{4717}e^{12}, \frac{4}{169}\sqrt{178}e^{13}, \frac{4}{169}\sqrt{445}e^{26},$ $\frac{14}{169}\sqrt{89}e^{17} + \frac{2}{169}\sqrt{2759}e^{24}$	$(\frac{75}{169}, -\frac{1}{13}, -\frac{103}{169}, \frac{60}{169}, \frac{29}{169}, \frac{62}{169}, -\frac{28}{169}, \frac{49}{169}, \frac{47}{169})$ $+\frac{2}{169}\sqrt{3115}e^1 \otimes e_3$	{124589, 12489, 15689, 1689, 2356, 236, 34, 345}
942:119	$0, 0, 0, 0, 0, \frac{195}{5309}\sqrt{134}e^{12}, \frac{39}{5309}\sqrt{830}e^{13}, \frac{78}{5309}\sqrt{565}e^{26},$ $\frac{234}{5309}\sqrt{42}e^{17} + \frac{39}{5309}\sqrt{1594}e^{24}$	$(\frac{390}{5309}, \frac{585}{5309}, -\frac{1131}{5309}, -\frac{936}{5309}, \frac{1170}{5309}, \frac{975}{5309}, -\frac{741}{5309}, \frac{1560}{5309}, -\frac{351}{5309})$ $+\frac{156}{5309}\sqrt{247}e^1 \otimes e_3 + \frac{39}{5309}\sqrt{4326}e^2 \otimes e_4 + \frac{78}{5309}\sqrt{370}e^5 \otimes e_9$	{2356, 345}
942:119	$0, 0, 0, 0, 0, \frac{2}{271}\sqrt{665}e^{12}, \frac{32}{813}\sqrt{133}e^{13}, \frac{14}{813}\sqrt{494}e^{26},$ $\frac{2}{813}\sqrt{23009}e^{17} + \frac{2}{813}\sqrt{13699}e^{24}$	$(-\frac{13}{813}, -\frac{11}{271}, \frac{187}{813}, \frac{194}{813}, -\frac{93}{271}, -\frac{46}{813}, \frac{58}{271}, -\frac{79}{813}, \frac{161}{813})$ $+\frac{2}{813}\sqrt{49210}e^1 \otimes e_5 + \frac{8}{813}\sqrt{2926}e^3 \otimes e_8$	{1278, 14678, 2345679, 3579}
942:119	$0, 0, 0, 0, 0, \frac{6}{353}\sqrt{1105}e^{12}, \frac{24}{353}\sqrt{102}e^{13}, \frac{6}{353}\sqrt{646}e^{26},$ $\frac{6}{353}\sqrt{1921}e^{17} + \frac{102}{353}\sqrt{3}e^{24}$	$(\frac{79}{353}, \frac{11}{353}, -\frac{33}{353}, \frac{114}{353}, -\frac{227}{353}, \frac{90}{353}, \frac{46}{353}, \frac{101}{353}, \frac{125}{353})$ $+\frac{6}{353}\sqrt{4930}e^1 \otimes e_5$	{123489, 1278, 13689, 14678, 2345679, 256, 3579, 45}
942:119	$0, 0, 0, 0, 0, \frac{230}{4113}\sqrt{43}e^{12}, \frac{2}{4113}\sqrt{331315}e^{13}, \frac{4}{4113}\sqrt{77142}e^{26},$ $\frac{234}{4113}\sqrt{536038}e^{17} + \frac{2}{1371}\sqrt{140438}e^{24}$	$(\frac{128}{4113}, -\frac{65}{457}, \frac{95}{4113}, \frac{104}{457}, \frac{2329}{4113}, -\frac{1}{9}, \frac{223}{4113}, -\frac{1042}{4113}, \frac{39}{457})$ $+\frac{2}{1371}\sqrt{208679}e^5 \otimes e_9 + \frac{4}{4113}\sqrt{441094}e^4 \otimes e_8$	{124567, 1349, 23789, 568}
942:119	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{26}e^{12}, \frac{1}{14}\sqrt{130}e^{13}, \frac{1}{14}\sqrt{130}e^{26},$ $\frac{1}{14}\sqrt{39}e^{17} + \frac{1}{14}\sqrt{26}e^{24}$	$(-\frac{3}{14}, -\frac{1}{28}, \frac{9}{14}, \frac{1}{4}, \frac{5}{28}, -\frac{1}{4}, \frac{3}{7}, -\frac{2}{7}, \frac{3}{14})$ $+\frac{1}{14}\sqrt{299}e^3 \otimes e_8$	{1234569, 123469, 1359, 139, 258, 28, 4568, 468}
942:119	$0, 0, 0, 0, 0, \frac{10}{4329}\sqrt{40506}e^{12}, \frac{8}{4329}\sqrt{14915}e^{13}, \frac{4}{4329}\sqrt{340690}e^{26},$ $\frac{2}{4329}\sqrt{8635}e^{17} + \frac{2}{4329}\sqrt{690015}e^{24}$	$(-\frac{199}{1443}, \frac{529}{4329}, \frac{682}{4329}, -\frac{347}{1443}, \frac{677}{1443}, -\frac{68}{4329}, \frac{85}{4329}, \frac{461}{4329}, -\frac{512}{4329})$ $+\frac{2}{4329}\sqrt{1297605}e^5 \otimes e_8 + \frac{2}{4329}\sqrt{1803930}e^2 \otimes e_4$	{128, 1468, 2567, 457}
942:119	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{19}e^{12}, \frac{2}{51}\sqrt{114}e^{13}, \frac{1}{51}\sqrt{1406}e^{26},$ $\frac{2}{51}\sqrt{19}e^{17} + \frac{2}{51}\sqrt{399}e^{24}$	$(\frac{26}{153}, -\frac{43}{153}, \frac{16}{51}, \frac{37}{51}, \frac{28}{153}, -\frac{1}{9}, \frac{14}{51}, -\frac{20}{51}, \frac{4}{9})$ $+\frac{5}{51}\sqrt{190}e^4 \otimes e_8$	{123456, 12346, 14579, 1479, 2589, 289, 35678, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:119	$0, 0, 0, 0, 0, \frac{13}{114}\sqrt{11}e^{12}, \frac{1}{114}\sqrt{1430}e^{13}, \frac{1}{57}\sqrt{3003}e^{26},$ $\frac{1}{38}\sqrt{286}e^{17} + \frac{1}{57}\sqrt{858}e^{24}$	$(\frac{1}{114}, -\frac{5}{38}, \frac{11}{76}, \frac{67}{228}, 1, -\frac{7}{57}, \frac{35}{228}, -\frac{29}{114}, \frac{37}{228})$ $+ \frac{1}{114}\sqrt{26455}e^5 \otimes e_8$	{123489, 1278, 13689, 14678, 2345679, 256, 3579, 45}
942:119	$0, 0, 0, 0, 0, \frac{3}{179}\sqrt{518}e^{12}, \frac{3}{179}\sqrt{266}e^{13}, \frac{42}{179}\sqrt{5}e^{26},$ $\frac{6}{179}\sqrt{14}e^{17} + \frac{3}{179}\sqrt{434}e^{24}$	$(-\frac{42}{179}, \frac{27}{179}, \frac{75}{179}, -\frac{36}{179}, \frac{18}{179}, -\frac{15}{179}, \frac{33}{179}, \frac{12}{179}, -\frac{9}{179})$ $+ \frac{3}{179}\sqrt{1190}e^2 \otimes e_4 + \frac{6}{179}\sqrt{266}e^3 \otimes e_8$	{12578, 1278, 145678, 14678}
942:119	$0, 0, 0, 0, 0, \frac{13}{269}\sqrt{102}e^{12}, \frac{26}{269}\sqrt{3}e^{13}, \frac{26}{269}\sqrt{29}e^{26},$ $\frac{39}{269}\sqrt{6}e^{17} + \frac{26}{269}e^{24}$	$(-\frac{39}{269}, \frac{65}{269}, \frac{39}{269}, -\frac{104}{269}, \frac{130}{269}, \frac{26}{269}, 0, \frac{91}{269}, -\frac{39}{269})$ $+ \frac{13}{269}\sqrt{194}e^5 \otimes e_9 + \frac{13}{269}\sqrt{278}e^2 \otimes e_4$	{123578, 1345678, 2356, 345}
942:119	$0, 0, 0, 0, 0, \frac{3}{22}\sqrt{6}e^{12}, \frac{3}{22}\sqrt{6}e^{13}, \frac{3}{22}\sqrt{14}e^{26},$ $\frac{3}{22}e^{17} + \frac{3}{22}\sqrt{2}e^{24}$	$(-\frac{3}{22}, \frac{3}{44}, \frac{9}{22}, \frac{3}{44}, -\frac{15}{44}, -\frac{3}{44}, \frac{3}{11}, 0, \frac{3}{22})$ $+ \frac{3}{11}\sqrt{5}e^2 \otimes e_5 + \frac{3}{22}\sqrt{19}e^3 \otimes e_8$	{12789, 1456789, 23467, 357}
942:119	$0, 0, 0, 0, 0, \frac{10}{373}\sqrt{265}e^{12}, \frac{2}{373}\sqrt{265}e^{13}, \frac{5}{373}\sqrt{106}e^{26},$ $\frac{7}{373}\sqrt{530}e^{17} + \frac{2}{373}\sqrt{15370}e^{24}$	$(\frac{129}{373}, -\frac{40}{373}, -\frac{136}{373}, \frac{162}{373}, -\frac{103}{373}, \frac{89}{373}, -\frac{7}{373}, \frac{49}{373}, \frac{122}{373})$ $+ \frac{2}{373}\sqrt{24115}e^1 \otimes e_3 + \frac{7}{373}\sqrt{1590}e^4 \otimes e_5$	{12589, 14689, 2346, 35}
942:119	$0, 0, 0, 0, 0, \frac{14}{229}\sqrt{78}e^{12}, \frac{42}{229}\sqrt{2}e^{13}, \frac{42}{229}\sqrt{5}e^{26},$ $\frac{14}{229}\sqrt{14}e^{17} + \frac{14}{229}e^{24}$	$(\frac{45}{229}, \frac{12}{229}, -\frac{53}{229}, \frac{25}{229}, -\frac{86}{229}, \frac{57}{229}, -\frac{8}{229}, \frac{69}{229}, \frac{37}{229})$ $+ \frac{14}{229}\sqrt{110}e^2 \otimes e_5 + \frac{14}{229}\sqrt{95}e^1 \otimes e_3$	{12489, 15689, 236, 345}
942:119	$0, 0, 0, 0, 0, \frac{4}{1307}\sqrt{24585}e^{12}, \frac{2}{1307}\sqrt{93423}e^{13}, \frac{1}{1307}\sqrt{337634}e^{26},$ $\frac{3}{1307}\sqrt{22946}e^{17} + \frac{3}{1307}\sqrt{193402}e^{24}$	$(\frac{291}{1307}, -\frac{86}{1307}, \frac{108}{1307}, \frac{776}{1307}, -\frac{863}{1307}, \frac{205}{1307}, \frac{399}{1307}, \frac{119}{1307}, \frac{690}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^4 \otimes e_5$	{123468, 1256789, 1358, 14789, 2347, 259, 3567, 469}
942:119	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{4390}e^{12}, \frac{5}{369}\sqrt{439}e^{13}, \frac{1}{738}\sqrt{172966}e^{26},$ $\frac{1}{738}\sqrt{878}e^{17} + \frac{1}{738}\sqrt{85605}e^{24}$	$(-\frac{97}{492}, \frac{107}{369}, \frac{140}{369}, -\frac{25}{82}, -\frac{53}{246}, \frac{137}{1476}, \frac{269}{1476}, \frac{565}{1476}, -\frac{11}{738})$ $+ \frac{1}{738}\sqrt{214671}e^3 \otimes e_5 + \frac{2}{369}\sqrt{22389}e^2 \otimes e_4$	{12578, 145678, 256, 45}
942:120	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{291}e^{12}, \frac{1}{77}\sqrt{582}e^{13}, \frac{2}{77}\sqrt{291}e^{16},$ $\frac{1}{77}\sqrt{6402}e^{14} + \frac{1}{77}\sqrt{1358}e^{37}$	$(-\frac{6}{77}, \frac{18}{77}, \frac{2}{7}, \frac{4}{7}, -\frac{53}{77}, \frac{12}{77}, \frac{16}{77}, \frac{6}{7}, \frac{38}{77})$ $+ \frac{1}{77}\sqrt{12610}e^4 \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567}
942:120	$0, 0, 0, 0, 0, \frac{68}{1277}\sqrt{201}e^{12}, \frac{7}{1277}\sqrt{6834}e^{13}, \frac{1}{1277}\sqrt{129846}e^{16},$ $\frac{20}{1277}\sqrt{1139}e^{14} + \frac{7}{1277}\sqrt{817802}e^{37}$	$(-\frac{294}{1277}, \frac{869}{1277}, \frac{12}{1277}, \frac{24}{1277}, \frac{224}{1277}, \frac{575}{1277}, -\frac{282}{1277}, \frac{281}{1277}, -\frac{270}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^2 \otimes e_9$	{1234578, 123478, 12458, 1248, 3459, 349, 4579, 479}
942:120	$0, 0, 0, 0, 0, \frac{4}{637}\sqrt{1786}e^{12}, \frac{12}{637}\sqrt{1034}e^{13}, \frac{4}{637}\sqrt{10199}e^{16},$ $\frac{8}{637}\sqrt{2491}e^{14} + \frac{4}{637}\sqrt{13301}e^{37}$	$(-\frac{141}{637}, \frac{62}{637}, \frac{12}{49}, \frac{24}{49}, \frac{100}{637}, -\frac{79}{637}, \frac{15}{637}, -\frac{220}{637}, \frac{171}{637})$ $+ \frac{4}{637}\sqrt{25239}e^3 \otimes e_8$	{1245789, 124789, 134569, 13469, 24568, 2468, 3457, 347}
942:120	$0, 0, 0, 0, 0, \frac{44}{1783}\sqrt{42}e^{12}, \frac{44}{1783}\sqrt{426}e^{13}, \frac{44}{1783}\sqrt{447}e^{16},$ $\frac{88}{1783}\sqrt{78}e^{14} + \frac{44}{1783}\sqrt{589}e^{37}$	$(-\frac{363}{1783}, \frac{198}{1783}, \frac{440}{1783}, \frac{880}{1783}, -\frac{88}{1783}, -\frac{165}{1783}, \frac{77}{1783}, -\frac{528}{1783}, \frac{517}{1783})$ $+ \frac{396}{1783}\sqrt{15}e^3 \otimes e_8 + \frac{88}{1783}\sqrt{82}e^4 \otimes e_5$	{124789, 13469, 2468, 347}
942:120	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{40439}e^{12}, \frac{1}{1641}\sqrt{288638}e^{13}, \frac{2}{1641}\sqrt{92379}e^{16},$ $\frac{22}{1641}\sqrt{371}e^{14} + \frac{2}{1641}\sqrt{78281}e^{37}$	$(-\frac{62}{1641}, -\frac{34}{1641}, \frac{71}{547}, \frac{142}{547}, -\frac{433}{1641}, -\frac{32}{547}, \frac{151}{1641}, -\frac{158}{1641}, \frac{364}{1641})$ $+ \frac{1}{1641}\sqrt{457814}e^1 \otimes e_5 + \frac{28}{1641}\sqrt{795}e^3 \otimes e_8$	{124789, 13469, 24568, 3457}
942:120	$0, 0, 0, 0, 0, \frac{9}{245}\sqrt{133}e^{12}, \frac{9}{245}\sqrt{37}e^{13}, \frac{72}{245}\sqrt{3}e^{16},$ $\frac{9}{245}\sqrt{123}e^{14} + \frac{9}{245}\sqrt{58}e^{37}$	$(\frac{37}{245}, -\frac{41}{245}, -\frac{22}{245}, -\frac{44}{245}, \frac{114}{245}, -\frac{4}{245}, \frac{3}{49}, \frac{33}{245}, -\frac{1}{35})$ $+ \frac{9}{245}\sqrt{177}e^5 \otimes e_8 + \frac{9}{245}\sqrt{262}e^1 \otimes e_4$	{234678, 2468, 3457, 45}
942:120	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{59}e^{12}, \frac{2}{477}\sqrt{8319}e^{13}, \frac{1}{477}\sqrt{34338}e^{16},$ $\frac{1}{159}\sqrt{2242}e^{14} + \frac{2}{477}\sqrt{15753}e^{37}$	$(-\frac{85}{477}, \frac{49}{477}, \frac{56}{477}, \frac{112}{477}, \frac{68}{477}, -\frac{4}{53}, -\frac{29}{477}, -\frac{121}{477}, \frac{3}{53})$ $+ \frac{1}{159}\sqrt{10738}e^3 \otimes e_8 + \frac{1}{477}\sqrt{52746}e^5 \otimes e_9$	{124789, 13469, 24568, 3457}
942:120	$0, 0, 0, 0, 0, \frac{44}{4505}\sqrt{386}e^{12}, \frac{44}{4505}\sqrt{66}e^{13}, \frac{44}{4505}\sqrt{617}e^{16},$ $\frac{44}{4505}\sqrt{1391}e^{14} + \frac{44}{4505}\sqrt{35}e^{37}$	$(\frac{132}{4505}, -\frac{836}{4505}, \frac{198}{4505}, \frac{396}{4505}, \frac{88}{265}, -\frac{704}{4505}, \frac{66}{901}, -\frac{572}{4505}, \frac{528}{4505})$ $+ \frac{132}{4505}\sqrt{133}e^5 \otimes e_9 + \frac{1716}{4505}e^1 \otimes e_2 + \frac{176}{4505}\sqrt{93}e^4 \otimes e_8$	{1389, 1789}
942:120	$0, 0, 0, 0, 0, \frac{4}{3747}\sqrt{159430}e^{12}, \frac{8}{3747}\sqrt{745}e^{13}, \frac{4}{3747}\sqrt{76735}e^{16},$ $\frac{4}{3747}\sqrt{82993}e^{14} + \frac{4}{3747}\sqrt{76139}e^{37}$	$(-\frac{40}{3747}, \frac{340}{1249}, -\frac{22}{1249}, -\frac{44}{1249}, -\frac{1232}{3747}, \frac{980}{3747}, -\frac{106}{3747}, \frac{940}{3747}, -\frac{172}{3747})$ $+ \frac{4}{1249}\sqrt{27565}e^2 \otimes e_9 + \frac{4}{3747}\sqrt{246893}e^1 \otimes e_5$	{123478, 1248, 3459, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:120	$0, 0, 0, 0, 0, \frac{4}{1615}\sqrt{2135e^{12}}, \frac{14}{1615}\sqrt{2013e^{13}}, \frac{2}{1615}\sqrt{94367e^{16}},$ $\frac{1}{1615}\sqrt{147742e^{14}} + \frac{1}{1615}\sqrt{344162e^{37}}$	$(\frac{3}{85}, -\frac{74}{323}, \frac{9}{85}, \frac{18}{85}, \frac{169}{1615}, -\frac{313}{1615}, \frac{12}{85}, -\frac{256}{1615}, \frac{21}{85})$ $+ \frac{1}{1615}\sqrt{494466e^1} \otimes e_2 + \frac{1}{95}\sqrt{2562e^3} \otimes e_8$	{145789, 14789, 23457, 2347}
942:120	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{267e^{12}}, \frac{1}{103}\sqrt{7565e^{13}}, \frac{1}{103}\sqrt{267e^{16}},$ $\frac{1}{103}\sqrt{3827e^{14}} + \frac{1}{103}\sqrt{7387e^{37}}$	$(-\frac{3}{206}, \frac{18}{103}, \frac{19}{103}, \frac{38}{103}, -\frac{70}{103}, \frac{33}{103}, \frac{35}{206}, \frac{15}{103}, \frac{73}{206})$ $+ \frac{1}{103}\sqrt{15397e^3} \otimes e_5$	{1234689, 12456789, 1349, 14579, 23478, 2458, 3467, 456}
942:120	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{42593e^{12}}, \frac{1}{407}\sqrt{20739e^{13}}, \frac{2}{407}\sqrt{8474e^{16}},$ $\frac{1}{407}\sqrt{7805e^{14}} + \frac{4}{407}\sqrt{2230e^{37}}$	$(-\frac{93}{407}, \frac{162}{407}, \frac{16}{407}, \frac{32}{407}, \frac{199}{407}, \frac{69}{407}, -\frac{7}{37}, -\frac{24}{407}, -\frac{61}{407})$ $+ \frac{1}{407}\sqrt{66677e^5} \otimes e_8 + \frac{4}{407}\sqrt{5798e^2} \otimes e_9$	{123478, 1248, 3459, 4579}
942:120	$0, 0, 0, 0, 0, \frac{4}{737}\sqrt{4117e^{12}}, \frac{10}{737}\sqrt{537e^{13}}, \frac{2}{737}\sqrt{5191e^{16}},$ $\frac{4}{737}\sqrt{11814e^{14}} + \frac{2}{737}\sqrt{11993e^{37}}$	$(\frac{150}{737}, -\frac{208}{737}, \frac{5}{67}, \frac{10}{67}, -\frac{248}{737}, -\frac{58}{737}, \frac{205}{737}, \frac{92}{737}, \frac{260}{737})$ $+ \frac{2}{67}\sqrt{537e^1} \otimes e_2 + \frac{2}{737}\sqrt{55669e^4} \otimes e_5$	{1348, 1478, 23479, 249}
942:120	$0, 0, 0, 0, 0, \frac{6}{1693}\sqrt{11537e^{12}}, \frac{249}{1693}\sqrt{6e^{13}}, \frac{3}{1693}\sqrt{39674e^{16}},$ $\frac{6}{1693}\sqrt{17015e^{14}} + \frac{3}{1693}\sqrt{32370e^{37}}$	$(-\frac{498}{1693}, \frac{717}{1693}, \frac{234}{1693}, \frac{468}{1693}, \frac{180}{1693}, \frac{219}{1693}, -\frac{264}{1693}, -\frac{279}{1693}, -\frac{30}{1693})$ $+ \frac{3}{1693}\sqrt{135290e^2} \otimes e_9 + \frac{6}{1693}\sqrt{28967e^4} \otimes e_8$	{3459, 349, 4579, 479}
942:120	$0, 0, 0, 0, 0, \frac{2}{1987}\sqrt{61835e^{12}}, \frac{2}{1987}\sqrt{29055e^{13}}, \frac{1}{1987}\sqrt{654110e^{16}},$ $\frac{4}{1987}\sqrt{55130e^{14}} + \frac{10}{1987}\sqrt{2086e^{37}}$	$(\frac{156}{1987}, -\frac{589}{1987}, \frac{234}{1987}, \frac{468}{1987}, \frac{172}{1987}, \frac{433}{1987}, \frac{390}{1987}, \frac{277}{1987}, \frac{624}{1987})$ $+ \frac{3}{1987}\sqrt{153470e^1} \otimes e_2 + \frac{4}{1987}\sqrt{82695e^4} \otimes e_8$	{234579, 23479, 2459, 249}
942:120	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638e^{12}}, \frac{4}{1211}\sqrt{27699e^{13}}, \frac{26}{1211}\sqrt{1319e^{16}},$ $\frac{1}{1211}\sqrt{962870e^{14}} + \frac{1}{1211}\sqrt{145090e^{37}}$	$(-\frac{48}{173}, \frac{199}{1211}, \frac{423}{1211}, \frac{846}{1211}, \frac{200}{1211}, -\frac{137}{1211}, \frac{87}{1211}, -\frac{473}{1211}, \frac{510}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^4} \otimes e_8$	{1235789, 123789, 12589, 1289, 23568, 2368, 25678, 2678}
942:120	$0, 0, 0, 0, 0, \frac{2}{137}\sqrt{310e^{12}}, \frac{2}{137}\sqrt{155e^{13}}, \frac{2}{137}\sqrt{310e^{16}},$ $\frac{2}{137}\sqrt{2945e^{14}} + \frac{1}{137}\sqrt{10230e^{37}}$	$(-\frac{4}{137}, \frac{28}{137}, -\frac{7}{137}, -\frac{14}{137}, \frac{1}{137}, \frac{24}{137}, -\frac{11}{137}, \frac{20}{137}, -\frac{18}{137})$ $+ \frac{1}{137}\sqrt{35030e^5} \otimes e_9$	{12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679}
942:120	$0, 0, 0, 0, 0, \frac{2}{777}\sqrt{13205e^{12}}, \frac{2}{777}\sqrt{973e^{13}}, \frac{4}{777}\sqrt{7089e^{16}},$ $\frac{4}{777}\sqrt{5977e^{14}} + \frac{2}{777}\sqrt{4309e^{37}}$	$(-\frac{2}{111}, -\frac{16}{777}, \frac{39}{259}, \frac{78}{259}, -\frac{292}{777}, -\frac{10}{259}, \frac{103}{777}, -\frac{44}{777}, \frac{220}{777})$ $+ \frac{2}{777}\sqrt{45453e^4} \otimes e_8 + \frac{2}{777}\sqrt{51569e^1} \otimes e_5$	{123789, 1289, 23568, 25678}
942:120	$0, 0, 0, 0, 0, \frac{12}{1349}\sqrt{1281e^{12}}, \frac{1}{1349}\sqrt{154574e^{13}}, \frac{17}{1349}\sqrt{854e^{16}},$ $\frac{4}{1349}\sqrt{9821e^{14}} + \frac{7}{1349}\sqrt{8906e^{37}}$	$(-\frac{18}{71}, \frac{429}{1349}, \frac{172}{1349}, \frac{344}{1349}, \frac{160}{1349}, \frac{87}{1349}, -\frac{170}{1349}, -\frac{255}{1349}, \frac{2}{1349})$ $+ \frac{1}{1349}\sqrt{414190e^2} \otimes e_9 + \frac{8}{1349}\sqrt{9394e^3} \otimes e_8$	{134569, 13469, 24568, 2468}
942:120	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30257e^{12}}, \frac{3}{311}\sqrt{1915e^{13}}, \frac{2}{311}\sqrt{23746e^{16}},$ $\frac{1}{311}\sqrt{29491e^{14}} + \frac{8}{311}\sqrt{383e^{37}}$	$(-\frac{45}{311}, \frac{18}{311}, \frac{48}{311}, \frac{96}{311}, 1, -\frac{27}{311}, \frac{3}{311}, -\frac{72}{311}, \frac{51}{311})$ $+ \frac{13}{311}\sqrt{1149e^5} \otimes e_8$	{12378, 128, 13567, 156, 23689, 26789, 359, 579}
942:120	$0, 0, 0, 0, 0, \frac{20}{1087}\sqrt{298e^{12}}, \frac{2}{1087}\sqrt{49170e^{13}}, \frac{20}{1087}\sqrt{298e^{16}},$ $\frac{4}{1087}\sqrt{45147e^{14}} + \frac{4}{1087}\sqrt{10877e^{37}}$	$(\frac{200}{1087}, -\frac{87}{1087}, -\frac{49}{1087}, -\frac{98}{1087}, \frac{347}{1087}, \frac{113}{1087}, \frac{151}{1087}, \frac{313}{1087}, \frac{102}{1087})$ $+ \frac{2}{1087}\sqrt{76586e^1} \otimes e_4 + \frac{4}{1087}\sqrt{17135e^3} \otimes e_5$	{234678, 24568, 347, 45}
942:120	$0, 0, 0, 0, 0, \frac{14}{121}\sqrt{10e^{12}}, \frac{21}{121}\sqrt{5e^{13}}, \frac{7}{121}\sqrt{65e^{16}},$ $\frac{7}{121}\sqrt{67e^{14}} + \frac{28}{121}\sqrt{5e^{37}}$	$(-\frac{27}{121}, \frac{29}{121}, \frac{24}{121}, \frac{48}{121}, -\frac{20}{121}, \frac{2}{121}, -\frac{3}{121}, -\frac{25}{121}, \frac{21}{121})$ $+ \frac{7}{121}\sqrt{69e^2} \otimes e_5 + \frac{84}{121}e^3 \otimes e_8$	{124789, 134569, 2468, 3457}
942:120	$0, 0, 0, 0, 0, \frac{26}{269}\sqrt{3e^{12}}, \frac{91}{269}\sqrt{2e^{13}}, \frac{39}{269}\sqrt{6e^{16}},$ $\frac{52}{269}e^{14} + \frac{269}{269}\sqrt{7e^{37}}$	$(-\frac{39}{269}, \frac{39}{269}, \frac{65}{269}, \frac{130}{269}, -\frac{104}{269}, 0, \frac{26}{269}, -\frac{39}{269}, \frac{91}{269})$ $+ \frac{13}{269}\sqrt{274e^3} \otimes e_5 + \frac{39}{269}\sqrt{22e^4} \otimes e_8$	{1389, 15789, 3678, 568}
942:120	$0, 0, 0, 0, 0, \frac{19}{1745}\sqrt{1013e^{12}}, \frac{19}{1745}\sqrt{57e^{13}}, \frac{76}{1745}\sqrt{62e^{16}},$ $\frac{19}{1745}\sqrt{463e^{14}} + \frac{38}{1745}\sqrt{142e^{37}}$	$(\frac{57}{1745}, \frac{114}{1745}, -\frac{152}{1745}, -\frac{304}{1745}, \frac{589}{1745}, \frac{171}{1745}, -\frac{19}{349}, \frac{228}{1745}, -\frac{247}{1745})$ $+ \frac{19}{1745}\sqrt{857e^5} \otimes e_8 + \frac{38}{1745}\sqrt{230e^2} \otimes e_9 + \frac{76}{1745}\sqrt{87e^1} \otimes e_4$	{234678, 2468}
942:120	$0, 0, 0, 0, 0, \frac{8}{787}\sqrt{2365e^{12}}, \frac{4}{787}\sqrt{4730e^{13}}, \frac{8}{787}\sqrt{2365e^{16}},$ $\frac{2}{787}\sqrt{16555e^{14}} + \frac{2}{787}\sqrt{30745e^{37}}$	$(\frac{176}{787}, -\frac{72}{787}, -\frac{127}{787}, -\frac{254}{787}, \frac{352}{787}, \frac{104}{787}, \frac{49}{787}, \frac{280}{787}, -\frac{78}{787})$ $+ \frac{10}{787}\sqrt{3741e^1} \otimes e_4 + \frac{4}{787}\sqrt{13330e^5} \otimes e_9$	{2345678, 24568, 3457, 45}
942:120	$0, 0, 0, 0, 0, \frac{272}{3197}\sqrt{2e^{12}}, \frac{34}{3197}\sqrt{690e^{13}}, \frac{34}{3197}\sqrt{626e^{16}},$ $\frac{68}{3197}\sqrt{7e^{14}} + \frac{68}{3197}\sqrt{191e^{37}}$	$(\frac{51}{3197}, -\frac{527}{3197}, \frac{153}{3197}, \frac{306}{3197}, \frac{935}{3197}, -\frac{476}{3197}, \frac{204}{3197}, -\frac{425}{3197}, \frac{357}{3197})$ $+ \frac{102}{3197}\sqrt{73e^5} \otimes e_9 + \frac{34}{3197}\sqrt{1329e^3} \otimes e_8 + \frac{34}{3197}\sqrt{933e^1} \otimes e_2$	{14789, 23457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:120	$0, 0, 0, 0, 0, \frac{40}{3041} \sqrt{1407}e^{12}, \frac{80}{3041} \sqrt{42}e^{13}, \frac{20}{3041} \sqrt{3486}e^{16},$ $\frac{30}{3041} \sqrt{707}e^{14} + \frac{10}{3041} \sqrt{13209}e^{37}$	$(\frac{256}{3041}, \frac{512}{3041}, -\frac{397}{3041}, -\frac{794}{3041}, \frac{360}{3041}, \frac{768}{3041}, -\frac{141}{3041}, \frac{1024}{3041}, -\frac{538}{3041})$ $+ \frac{10}{3041} \sqrt{30597}e^1 \otimes e_4 + \frac{60}{3041} \sqrt{714}e^2 \otimes e_9$	{2345678, 234678, 24568, 2468}
942:120	$0, 0, 0, 0, 0, \frac{2}{409} \sqrt{1717}e^{12}, \frac{4}{409} \sqrt{1010}e^{13}, \frac{2}{409} \sqrt{4646}e^{16},$ $\frac{2}{409} \sqrt{13130}e^{14} + \frac{2}{409} \sqrt{3030}e^{37}$	$(-\frac{80}{409}, \frac{56}{409}, \frac{49}{409}, \frac{98}{409}, \frac{220}{409}, -\frac{24}{409}, -\frac{31}{409}, -\frac{104}{409}, \frac{18}{409})$ $+ \frac{2}{409} \sqrt{18281}e^5 \otimes e_9 + \frac{6}{409} \sqrt{2121}e^4 \otimes e_8$	{1234567, 12456, 2349, 2479}
942:120	$0, 0, 0, 0, 0, \frac{2}{1241} \sqrt{76799}e^{12}, \frac{2}{1241} \sqrt{177519}e^{13}, \frac{1}{1241} \sqrt{556478}e^{16},$ $\frac{4}{1241} \sqrt{46583}e^{14} + \frac{2}{1241} \sqrt{17626}e^{37}$	$(\frac{564}{1241}, -\frac{695}{1241}, -\frac{42}{1241}, -\frac{84}{1241}, \frac{212}{1241}, -\frac{131}{1241}, \frac{522}{1241}, \frac{433}{1241}, \frac{480}{1241})$ $+ \frac{7}{1241} \sqrt{52878}e^1 \otimes e_2$	{13458, 1348, 14578, 1478, 234579, 23479, 2459, 249}
942:120	$0, 0, 0, 0, 0, \frac{27}{457} \sqrt{6}e^{12}, \frac{27}{457} \sqrt{26}e^{13}, \frac{9}{457} \sqrt{762}e^{16},$ $\frac{9}{457} \sqrt{222}e^{14} + \frac{18}{457} \sqrt{6}e^{37}$	$(\frac{78}{457}, -\frac{165}{457}, \frac{6}{457}, \frac{12}{457}, \frac{234}{457}, -\frac{87}{457}, \frac{84}{457}, -\frac{9}{457}, \frac{90}{457})$ $+ \frac{9}{457} \sqrt{1110}e^5 \otimes e_8 + \frac{457}{457} \sqrt{1338}e^1 \otimes e_2$	{1389, 1789, 2357, 25}
942:120	$0, 0, 0, 0, 0, \frac{2}{3145} \sqrt{166231}e^{12}, \frac{2}{3145} \sqrt{718091}e^{13}, \frac{2}{3145} \sqrt{125851}e^{16},$ $\frac{4}{3145} \sqrt{673}e^{14} + \frac{2}{3145} \sqrt{412549}e^{37}$	$(\frac{621}{3145}, -\frac{145}{629}, \frac{163}{3145}, \frac{326}{3145}, -\frac{1183}{3145}, -\frac{104}{3145}, \frac{784}{3145}, \frac{517}{3145}, \frac{947}{3145})$ $+ \frac{2}{3145} \sqrt{1018249}e^3 \otimes e_5 + \frac{2}{3145} \sqrt{876246}e^1 \otimes e_2$	{1389, 15789, 237, 25}
942:120	$0, 0, 0, 0, 0, \frac{4}{1193} \sqrt{8322}e^{12}, \frac{4}{1193} \sqrt{9490}e^{13}, \frac{292}{1193} e^{16},$ $\frac{4}{1193} \sqrt{24455}e^{14} + \frac{4}{1193} \sqrt{803}e^{37}$	$(\frac{260}{1193}, -\frac{324}{1193}, \frac{106}{1193}, -\frac{212}{1193}, \frac{632}{1193}, -\frac{64}{1193}, \frac{154}{1193}, \frac{196}{1193}, \frac{48}{1193})$ $+ \frac{4}{1193} \sqrt{37157}e^5 \otimes e_9 + \frac{4}{1193} \sqrt{40953}e^1 \otimes e_2$	{1389, 1789, 2357, 25}
942:120	$0, 0, 0, 0, 0, \frac{72}{245} \sqrt{3}e^{12}, \frac{9}{245} \sqrt{37}e^{13}, \frac{9}{245} \sqrt{133}e^{16},$ $\frac{9}{245} \sqrt{123}e^{14} + \frac{9}{245} \sqrt{58}e^{37}$	$(\frac{37}{245}, \frac{18}{245}, -\frac{22}{245}, -\frac{44}{245}, -\frac{35}{245}, \frac{11}{49}, \frac{3}{49}, \frac{92}{245}, -\frac{1}{35})$ $+ \frac{9}{245} \sqrt{177}e^2 \otimes e_5 + \frac{9}{245} \sqrt{262}e^1 \otimes e_4$	{234678, 2468, 3457, 45}
942:120	$0, 0, 0, 0, 0, \frac{4}{107} \sqrt{390}e^{12}, \frac{4}{107} \sqrt{195}e^{13}, \frac{4}{107} \sqrt{390}e^{16},$ $\frac{6}{107} \sqrt{143}e^{14} + \frac{2}{107} \sqrt{663}e^{37}$	$(\frac{40}{107}, -\frac{22}{107}, -\frac{19}{107}, -\frac{38}{107}, \frac{18}{107}, \frac{18}{107}, \frac{21}{107}, \frac{58}{107}, \frac{2}{107})$ $+ \frac{2}{107} \sqrt{3471}e^1 \otimes e_4$	{2345678, 234678, 24568, 2468, 3457, 347, 4, 45}
942:120	$0, 0, 0, 0, 0, \frac{12}{3869} \sqrt{1365}e^{12}, \frac{6}{3869} \sqrt{7070}e^{13}, \frac{420}{3869} \sqrt{2}e^{16},$ $\frac{18}{3869} \sqrt{1043}e^{14} + \frac{24}{3869} \sqrt{518}e^{37}$	$(\frac{160}{3869}, -\frac{429}{3869}, \frac{17}{3869}, \frac{34}{3869}, \frac{351}{3869}, -\frac{269}{3869}, \frac{177}{3869}, -\frac{109}{3869}, \frac{194}{3869})$ $+ \frac{12}{3869} \sqrt{3255}e^3 \otimes e_8 + \frac{6}{3869} \sqrt{11606}e^1 \otimes e_4$	{24568, 2468, 3457, 347}
942:120	$0, 0, 0, 0, 0, \frac{22}{87} \sqrt{7}e^{12}, \frac{11}{87} \sqrt{14}e^{13}, \frac{22}{87} \sqrt{7}e^{16},$ $\frac{2}{87} \sqrt{385}e^{14} + \frac{2}{87} \sqrt{77}e^{37}$	$(\frac{22}{87}, -\frac{2}{29}, \frac{1}{29}, \frac{2}{29}, -\frac{55}{87}, \frac{16}{87}, \frac{25}{87}, \frac{38}{87}, \frac{28}{87})$ $+ \frac{2}{87} \sqrt{10934}e^1 \otimes e_5$	{12389, 12789, 1369, 1679, 235678, 2568, 357, 5}
942:120	$0, 0, 0, 0, 0, \frac{2}{3433} \sqrt{392946}e^{12}, \frac{4}{3433} \sqrt{72123}e^{13}, \frac{2}{3433} \sqrt{92019}e^{16},$ $\frac{13}{3433} \sqrt{211395}e^{14} + \frac{2}{3433} \sqrt{296782}e^{37}$	$(-\frac{696}{3433}, \frac{1620}{3433}, \frac{329}{3433}, \frac{658}{3433}, -\frac{1000}{3433}, \frac{924}{3433}, -\frac{367}{3433}, \frac{228}{3433}, -\frac{38}{3433})$ $+ \frac{2}{3433} \sqrt{1110031}e^4 \otimes e_5 + \frac{6}{3433} \sqrt{161655}e^2 \otimes e_9$	{12347, 124, 3489, 4789}
942:120	$0, 0, 0, 0, 0, \frac{2}{311} \sqrt{23746}e^{12}, \frac{3}{311} \sqrt{1915}e^{13}, \frac{1}{311} \sqrt{30257}e^{16},$ $\frac{1}{311} \sqrt{29491}e^{14} + \frac{8}{311} \sqrt{383}e^{37}$	$(-\frac{45}{311}, \frac{187}{311}, \frac{48}{311}, \frac{96}{311}, -\frac{196}{311}, \frac{142}{311}, \frac{3}{311}, \frac{97}{311}, \frac{51}{311})$ $+ \frac{13}{311} \sqrt{1149}e^2 \otimes e_5$	{12378, 128, 13567, 156, 23689, 26789, 359, 579}
942:120	$0, 0, 0, 0, 0, \frac{2}{2977} \sqrt{256847}e^{12}, \frac{2}{2977} \sqrt{278915}e^{13}, \frac{2}{2977} \sqrt{6743}e^{16},$ $\frac{2}{2977} \sqrt{52718}e^{14} + \frac{2}{2977} \sqrt{625873}e^{37}$	$(-\frac{441}{2977}, \frac{1207}{2977}, \frac{211}{2977}, \frac{422}{2977}, -\frac{1015}{2977}, \frac{766}{2977}, -\frac{230}{2977}, \frac{25}{2977}, -\frac{19}{2977})$ $+ \frac{2}{2977} \sqrt{790770}e^2 \otimes e_9 + \frac{2}{2977} \sqrt{828163}e^3 \otimes e_5$	{134689, 1456789, 23467, 2456}
942:120	$0, 0, 0, 0, 0, \frac{598}{5197} e^{12}, \frac{26}{5197} \sqrt{683}e^{13}, \frac{13}{5197} \sqrt{3790}e^{16},$ $\frac{13}{5197} \sqrt{3646}e^{14} + \frac{52}{5197} \sqrt{199}e^{37}$	$(\frac{221}{5197}, -\frac{585}{5197}, \frac{26}{5197}, \frac{52}{5197}, \frac{442}{5197}, -\frac{364}{5197}, \frac{247}{5197}, -\frac{143}{5197}, \frac{273}{5197})$ $+ \frac{117}{5197} \sqrt{62}e^3 \otimes e_8 + \frac{13}{5197} \sqrt{62}e^5 \otimes e_9 + \frac{26}{5197} \sqrt{1122}e^1 \otimes e_4$	{2468, 347}
942:121	$0, 0, 0, 0, 0, \frac{1}{65} \sqrt{97}e^{12}, \frac{1}{65} \sqrt{970}e^{13}, \frac{1}{130} \sqrt{3298}e^{16},$ $\frac{1}{130} \sqrt{97}e^{17} + \frac{1}{65} \sqrt{97}e^{34}$	$(-\frac{21}{130}, \frac{33}{260}, \frac{11}{26}, -\frac{21}{65}, \frac{11}{20}, -\frac{9}{260}, \frac{17}{65}, -\frac{51}{260}, \frac{1}{10})$ $+ \frac{1}{130} \sqrt{11058}e^5 \otimes e_8 + \frac{3}{130} \sqrt{1261}e^3 \otimes e_4$	{124567, 1478, 245, 468}
942:121	$0, 0, 0, 0, 0, \frac{2}{875} \sqrt{21545}e^{12}, \frac{4}{875} \sqrt{4031}e^{13}, \frac{2}{875} \sqrt{41978}e^{16},$ $\frac{2}{875} \sqrt{36557}e^{17} + \frac{2}{875} \sqrt{58102}e^{34}$	$(\frac{8}{875}, -\frac{69}{875}, \frac{9}{35}, \frac{16}{875}, -\frac{262}{875}, -\frac{61}{875}, \frac{233}{875}, -\frac{53}{875}, \frac{241}{875})$ $+ \frac{4}{875} \sqrt{12093}e^4 \otimes e_5 + \frac{6}{125} \sqrt{139}e^3 \otimes e_8$	{1258, 135679, 25678, 359}
942:121	$0, 0, 0, 0, 0, \frac{2}{91} \sqrt{1133}e^{12}, \frac{5}{91} \sqrt{206}e^{13}, \frac{2}{91} \sqrt{1133}e^{16},$ $\frac{5}{91} \sqrt{206}e^{17} + \frac{1}{91} \sqrt{9682}e^{34}$	$(\frac{22}{91}, -\frac{6}{91}, -\frac{6}{91}, \frac{44}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{38}{91}, \frac{38}{91})$ $+ \frac{5}{91} \sqrt{618}e^4 \otimes e_5$	{1235789, 1258, 135679, 156, 235689, 25678, 359, 57}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:121	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{17}e^{12}, \frac{6}{53}\sqrt{17}e^{13}, \frac{4}{53}\sqrt{17}e^{16},$ $\frac{1}{53}\sqrt{374}e^{17} + \frac{1}{53}\sqrt{34}e^{34}$	$(\frac{3}{53}, -\frac{14}{53}, \frac{9}{53}, \frac{6}{53}, \frac{5}{53}, -\frac{11}{53}, \frac{12}{53}, -\frac{8}{53}, \frac{15}{53})$ $+ \frac{1}{53}\sqrt{714}e^3 \otimes e_8 + \frac{3}{53}\sqrt{102}e^1 \otimes e_2$	{14578, 1478, 234579, 23479}
942:121	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{330}e^{12}, \frac{1}{77}\sqrt{858}e^{13}, \frac{1}{77}\sqrt{1122}e^{16},$ $\frac{1}{77}\sqrt{330}e^{17} + \frac{2}{77}\sqrt{330}e^{34}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, 0, 0, -\frac{1}{7})$ $+ \frac{2}{77}\sqrt{165}e^3 \otimes e_4 + \frac{2}{77}\sqrt{561}e^2 \otimes e_9 + \frac{5}{77}\sqrt{66}e^5 \otimes e_8$	{135679, 359}
942:121	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{22}e^{12}, \frac{4}{7}\sqrt{2}e^{13}, \frac{1}{7}\sqrt{26}e^{16},$ $\frac{4}{7}\sqrt{2}e^{17} + \frac{4}{7}\sqrt{2}e^{34}$	$(0, -\frac{1}{7}, \frac{1}{7}, 0, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{30}e^4 \otimes e_8 + \frac{3}{7}\sqrt{2}e^1 \otimes e_2$	{1235789, 123789, 1258, 128}
942:121	$0, 0, 0, 0, 0, \frac{2}{673}\sqrt{23690}e^{12}, \frac{412}{673}e^{13}, \frac{2}{673}\sqrt{23690}e^{16},$ $\frac{2}{673}\sqrt{41818}e^{17} + \frac{2}{673}\sqrt{3090}e^{34}$	$(-\frac{115}{673}, \frac{179}{673}, \frac{182}{673}, -\frac{230}{673}, \frac{364}{673}, \frac{64}{673}, \frac{67}{673}, -\frac{51}{673}, -\frac{48}{673})$ $+ \frac{206}{673}\sqrt{6}e^3 \otimes e_4 + \frac{20}{673}\sqrt{618}e^5 \otimes e_9$	{1245678, 1457, 2458, 456}
942:121	$0, 0, 0, 0, 0, \frac{14}{943}\sqrt{537}e^{12}, \frac{63}{943}\sqrt{46}e^{13}, \frac{7}{943}\sqrt{1110}e^{16},$ $\frac{7}{943}\sqrt{2958}e^{17} + \frac{14}{943}\sqrt{537}e^{34}$	$(\frac{7}{943}, -\frac{140}{943}, \frac{7}{41}, \frac{14}{943}, \frac{21}{943}, -\frac{133}{943}, \frac{168}{943}, -\frac{126}{943}, \frac{175}{943})$ $+ \frac{14}{943}\sqrt{807}e^1 \otimes e_2 + \frac{336}{943}e^3 \otimes e_4 + \frac{7}{943}\sqrt{114}e^5 \otimes e_8$	{147, 2458}
942:121	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{35098}e^{12}, \frac{3}{359}\sqrt{1610}e^{13}, \frac{5}{359}\sqrt{1610}e^{16},$ $\frac{2}{359}\sqrt{8533}e^{17} + \frac{5}{359}\sqrt{1610}e^{34}$	$(-\frac{42}{359}, \frac{67}{359}, \frac{144}{359}, -\frac{84}{359}, -\frac{94}{359}, \frac{25}{359}, \frac{102}{359}, -\frac{17}{359}, \frac{60}{359})$ $+ \frac{1}{359}\sqrt{58926}e^3 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^2 \otimes e_5$	{128, 135679, 2678, 359}
942:121	$0, 0, 0, 0, 0, \frac{5}{359}\sqrt{1610}e^{12}, \frac{2}{359}\sqrt{8533}e^{13}, \frac{1}{359}\sqrt{35098}e^{16},$ $\frac{3}{359}\sqrt{1610}e^{17} + \frac{5}{359}\sqrt{1610}e^{34}$	$(-\frac{42}{359}, \frac{99}{359}, \frac{22}{359}, -\frac{84}{359}, \frac{176}{359}, \frac{57}{359}, -\frac{20}{359}, \frac{15}{359}, -\frac{62}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^5 \otimes e_8$	{128, 135679, 2678, 359}
942:121	$0, 0, 0, 0, 0, \frac{2}{793}\sqrt{18042}e^{12}, \frac{4}{793}\sqrt{7843}e^{13}, \frac{2}{793}\sqrt{8866}e^{16},$ $\frac{2}{793}\sqrt{24862}e^{17} + \frac{2}{793}\sqrt{18042}e^{34}$	$(\frac{5}{793}, -\frac{119}{793}, \frac{134}{793}, \frac{10}{793}, \frac{34}{793}, -\frac{114}{793}, \frac{139}{793}, -\frac{109}{793}, \frac{144}{793})$ $+ \frac{4}{793}\sqrt{6882}e^1 \otimes e_2 + \frac{6}{793}\sqrt{2170}e^3 \otimes e_4$	{1457, 147, 2458, 248}
942:121	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{273}e^{12}, \frac{5}{83}\sqrt{78}e^{13}, \frac{1}{83}\sqrt{858}e^{16},$ $\frac{3}{83}\sqrt{78}e^{17} + \frac{2}{83}\sqrt{273}e^{34}$	$(\frac{11}{83}, -\frac{28}{83}, -\frac{3}{83}, \frac{22}{83}, \frac{33}{83}, -\frac{17}{83}, \frac{8}{83}, -\frac{6}{83}, \frac{19}{83})$ $+ \frac{10}{83}\sqrt{39}e^1 \otimes e_2 + \frac{5}{83}\sqrt{78}e^5 \otimes e_8$	{13489, 1478, 234579, 245}
942:121	$0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{13}, \frac{5}{44}\sqrt{14}e^{16},$ $\frac{1}{44}\sqrt{182}e^{17} + \frac{1}{22}\sqrt{133}e^{34}$	$(-\frac{7}{44}, \frac{3}{11}, \frac{3}{11}, -\frac{7}{22}, \frac{5}{44}, \frac{5}{44}, \frac{5}{44}, -\frac{1}{22}, -\frac{1}{22})$ $+ \frac{1}{44}\sqrt{546}e^2 \otimes e_9 + \frac{1}{44}\sqrt{546}e^3 \otimes e_8$	{1258, 128, 135679, 13679, 25678, 2678, 359, 39}
942:121	$0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{13}, \frac{5}{44}\sqrt{14}e^{16},$ $\frac{1}{44}\sqrt{182}e^{17} + \frac{1}{22}\sqrt{133}e^{34}$	$(-\frac{7}{44}, \frac{3}{11}, \frac{3}{11}, -\frac{7}{22}, \frac{5}{44}, \frac{5}{44}, \frac{5}{44}, -\frac{1}{22}, -\frac{1}{22})$ $+ \frac{1}{44}\sqrt{546}e^2 \otimes e_9 - \frac{1}{44}\sqrt{546}e^3 \otimes e_8$	{1258, 128, 135679, 13679, 25678, 2678, 359, 39}
942:121	$0, 0, 0, 0, 0, \frac{2}{875}\sqrt{41978}e^{12}, \frac{2}{875}\sqrt{36557}e^{13}, \frac{2}{875}\sqrt{21545}e^{16},$ $\frac{4}{875}\sqrt{4031}e^{17} + \frac{2}{875}\sqrt{58102}e^{34}$	$(\frac{8}{875}, \frac{9}{35}, -\frac{69}{875}, \frac{16}{875}, -\frac{262}{875}, \frac{233}{875}, -\frac{61}{875}, \frac{241}{875}, -\frac{53}{875})$ $+ \frac{4}{875}\sqrt{12093}e^4 \otimes e_5 + \frac{6}{125}\sqrt{139}e^2 \otimes e_9$	{1258, 135679, 25678, 359}
942:121	$0, 0, 0, 0, 0, \frac{8}{653}\sqrt{1218}e^{12}, \frac{40}{653}\sqrt{91}e^{13}, \frac{56}{653}\sqrt{7}e^{16},$ $\frac{40}{653}\sqrt{70}e^{17} + \frac{24}{653}\sqrt{77}e^{34}$	$(\frac{76}{653}, -\frac{148}{653}, \frac{52}{653}, \frac{152}{653}, -\frac{172}{653}, -\frac{72}{653}, \frac{128}{653}, \frac{4}{653}, \frac{204}{653})$ $+ \frac{120}{653}\sqrt{7}e^3 \otimes e_5 + \frac{40}{653}\sqrt{105}e^1 \otimes e_2$	{1349, 1457, 234789, 2458}
942:121	$0, 0, 0, 0, 0, \frac{52}{1697}\sqrt{62}e^{12}, \frac{390}{1697}\sqrt{2}e^{13}, \frac{52}{1697}\sqrt{35}e^{16},$ $\frac{26}{1697}\sqrt{422}e^{17} + \frac{130}{1697}\sqrt{2}e^{34}$	$(\frac{39}{1697}, -\frac{299}{1697}, \frac{117}{1697}, \frac{78}{1697}, \frac{533}{1697}, -\frac{260}{1697}, \frac{156}{1697}, -\frac{221}{1697}, \frac{195}{1697})$ $+ \frac{234}{1697}\sqrt{5}e^5 \otimes e_9 + \frac{26}{1697}\sqrt{489}e^3 \otimes e_8 + \frac{390}{1697}\sqrt{3}e^1 \otimes e_2$	{1578, 2379}
942:121	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{15}e^{12}, \frac{8}{7}e^{13}, \frac{4}{21}\sqrt{15}e^{16},$ $\frac{4}{7}\sqrt{2}e^{17} + \frac{4}{21}\sqrt{15}e^{34}$	$(-\frac{5}{21}, \frac{8}{21}, \frac{2}{3}, -\frac{10}{21}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{21}, \frac{4}{21})$ $+ \frac{4}{7}\sqrt{6}e^3 \otimes e_4$	{1245678, 124678, 1457, 147, 2458, 248, 456, 46}
942:121	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{133}e^{12}, \frac{1}{22}\sqrt{182}e^{13}, \frac{2}{11}\sqrt{14}e^{16},$ $\frac{1}{22}\sqrt{182}e^{17} + \frac{2}{11}\sqrt{14}e^{34}$	$(\frac{3}{22}, -\frac{7}{22}, -\frac{1}{44}, \frac{3}{11}, \frac{5}{44}, -\frac{2}{11}, \frac{5}{44}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{22}\sqrt{273}e^4 \otimes e_8$	{1235789, 123789, 1258, 128, 235689, 23689, 25678, 2678}
942:121	$0, 0, 0, 0, 0, \frac{1}{130}\sqrt{3298}e^{12}, \frac{1}{65}\sqrt{970}e^{13}, \frac{1}{65}\sqrt{97}e^{16},$ $\frac{1}{130}\sqrt{97}e^{17} + \frac{1}{65}\sqrt{97}e^{34}$	$(-\frac{21}{130}, \frac{109}{260}, \frac{11}{26}, -\frac{21}{65}, -\frac{52}{65}, \frac{67}{260}, \frac{17}{65}, \frac{5}{52}, \frac{1}{10})$ $+ \frac{1}{130}\sqrt{11058}e^2 \otimes e_5 + \frac{3}{130}\sqrt{1261}e^3 \otimes e_4$	{1247, 145678, 246, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:121	$0, 0, 0, 0, 0, \frac{1}{134}\sqrt{2407}e^{12}, \frac{1}{134}\sqrt{3538}e^{13}, \frac{6}{67}\sqrt{29}e^{16},$ $\frac{1}{134}\sqrt{2958}e^{17} + \frac{1}{67}\sqrt{1189}e^{34}$	$(\frac{11}{134}, -\frac{29}{134}, -\frac{17}{268}, \frac{11}{67}, \frac{85}{268}, -\frac{9}{67}, \frac{5}{268}, -\frac{7}{134}, \frac{27}{268})$ $+ \frac{1}{134}\sqrt{5307}e^4 \otimes e_8 + \frac{1}{67}\sqrt{435}e^5 \otimes e_9$	{123789, 1258, 23689, 25678}
942:121	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{1133}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{1}{91}\sqrt{9682}e^{16},$ $\frac{2}{91}\sqrt{206}e^{17} + \frac{2}{91}\sqrt{1133}e^{34}$	$(-\frac{3}{91}, -\frac{6}{91}, \frac{19}{91}, -\frac{6}{91}, 1, -\frac{9}{91}, \frac{16}{91}, -\frac{12}{91}, \frac{1}{7})$ $+ \frac{5}{91}\sqrt{618}e^5 \otimes e_8$	{123789, 128, 135679, 156, 23689, 2678, 359, 57}
942:121	$0, 0, 0, 0, 0, \frac{1}{134}\sqrt{2407}e^{12}, \frac{1}{134}\sqrt{2958}e^{13}, \frac{6}{67}\sqrt{29}e^{16},$ $\frac{1}{134}\sqrt{3538}e^{17} + \frac{1}{67}\sqrt{1189}e^{34}$	$(\frac{11}{134}, -\frac{29}{134}, \frac{23}{268}, \frac{11}{67}, -\frac{35}{268}, -\frac{9}{67}, \frac{45}{268}, -\frac{7}{134}, \frac{1}{4})$ $+ \frac{1}{134}\sqrt{5307}e^4 \otimes e_8 + \frac{1}{67}\sqrt{435}e^3 \otimes e_5$	{123789, 1258, 23689, 25678}
942:121	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{133}e^{12}, \frac{2}{47}\sqrt{247}e^{13}, \frac{2}{47}\sqrt{133}e^{16},$ $\frac{2}{47}\sqrt{247}e^{17} + \frac{2}{47}\sqrt{114}e^{34}$	$(\frac{7}{47}, \frac{1}{47}, \frac{1}{47}, \frac{14}{47}, -\frac{31}{47}, \frac{8}{47}, \frac{8}{47}, \frac{15}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{741}e^1 \otimes e_5$	{123489, 12478, 13469, 1467, 23456789, 24568, 34579, 45}
942:121	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{33}e^{12}, \frac{2}{17}\sqrt{55}e^{13}, \frac{1}{17}\sqrt{22}e^{16},$ $\frac{2}{17}\sqrt{55}e^{17} + \frac{2}{17}\sqrt{33}e^{34}$	$(\frac{4}{17}, -\frac{7}{17}, -\frac{2}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{2}{17}, \frac{1}{17}, \frac{6}{17})$ $+ \frac{1}{17}\sqrt{330}e^1 \otimes e_2$	{13459, 1349, 1457, 147, 2345789, 234789, 2458, 248}
942:121	$0, 0, 0, 0, 0, \frac{8}{653}\sqrt{1218}e^{12}, \frac{40}{653}\sqrt{70}e^{13}, \frac{56}{653}\sqrt{7}e^{16},$ $\frac{40}{653}\sqrt{91}e^{17} + \frac{24}{653}\sqrt{77}e^{34}$	$(\frac{76}{653}, -\frac{148}{653}, -\frac{98}{653}, \frac{152}{653}, \frac{278}{653}, -\frac{72}{653}, \frac{22}{653}, \frac{4}{653}, \frac{54}{653})$ $+ \frac{120}{653}\sqrt{7}e^5 \otimes e_9 + \frac{40}{653}\sqrt{105}e^1 \otimes e_2$	{1349, 1457, 234789, 2458}
942:121	$0, 0, 0, 0, 0, \frac{11}{1105}\sqrt{717}e^{12}, \frac{22}{1105}\sqrt{295}e^{13}, \frac{22}{1105}\sqrt{91}e^{16},$ $\frac{22}{1105}\sqrt{265}e^{17} + \frac{22}{221}\sqrt{6}e^{34}$	$(-\frac{11}{2210}, -\frac{253}{2210}, \frac{22}{221}, -\frac{11}{1105}, \frac{44}{221}, -\frac{132}{1105}, \frac{209}{2210}, -\frac{55}{442}, \frac{99}{1105})$ $+ \frac{11}{1105}\sqrt{1059}e^1 \otimes e_2 + \frac{33}{1105}\sqrt{39}e^5 \otimes e_9 + \frac{33}{1105}\sqrt{79}e^3 \otimes e_4$	{1457, 2458}
942:121	$0, 0, 0, 0, 0, \frac{4}{757}\sqrt{1295}e^{12}, \frac{8}{757}\sqrt{2905}e^{13}, \frac{4}{757}\sqrt{1295}e^{16},$ $\frac{20}{757}\sqrt{322}e^{17} + \frac{20}{757}\sqrt{231}e^{34}$	$(-\frac{37}{757}, \frac{104}{757}, \frac{206}{757}, -\frac{74}{757}, -\frac{317}{757}, \frac{67}{757}, \frac{169}{757}, \frac{30}{757}, \frac{132}{757})$ $+ \frac{12}{757}\sqrt{1190}e^3 \otimes e_4 + \frac{32}{757}\sqrt{210}e^1 \otimes e_5$	{124678, 147, 2458, 456}
942:121	$0, 0, 0, 0, 0, \frac{24}{77}e^{12}, \frac{8}{77}\sqrt{10}e^{13}, \frac{12}{77}\sqrt{5}e^{16},$ $\frac{8}{77}\sqrt{10}e^{17} + \frac{12}{77}\sqrt{5}e^{34}$	$(\frac{5}{77}, -\frac{8}{77}, \frac{1}{77}, \frac{10}{77}, -\frac{16}{77}, -\frac{3}{77}, \frac{6}{77}, \frac{2}{77}, \frac{1}{7})$ $+ \frac{4}{11}e^4 \otimes e_8 + \frac{4}{77}\sqrt{22}e^2 \otimes e_5$	{123789, 128, 23689, 2678}
942:121	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{105}e^{12}, \frac{8}{89}\sqrt{7}e^{13}, \frac{4}{89}\sqrt{7}e^{16},$ $\frac{4}{89}\sqrt{70}e^{17} + \frac{4}{89}\sqrt{105}e^{34}$	$(-\frac{17}{89}, \frac{44}{89}, \frac{22}{89}, -\frac{34}{89}, \frac{11}{89}, \frac{27}{89}, \frac{5}{89}, \frac{10}{89}, -\frac{12}{89})$ $+ \frac{16}{89}\sqrt{21}e^2 \otimes e_9 + \frac{4}{89}\sqrt{210}e^3 \otimes e_4$	{135689, 13689, 35789, 3789}
942:121	$0, 0, 0, 0, 0, \frac{20}{349}\sqrt{55}e^{12}, \frac{4}{349}\sqrt{1430}e^{13}, \frac{4}{349}\sqrt{2233}e^{16},$ $\frac{4}{349}\sqrt{1430}e^{17} + \frac{4}{349}\sqrt{1947}e^{34}$	$(\frac{47}{349}, -\frac{88}{349}, -\frac{10}{349}, \frac{94}{349}, -\frac{41}{349}, -\frac{41}{349}, \frac{37}{349}, \frac{6}{349}, \frac{84}{349})$ $+ \frac{12}{349}\sqrt{286}e^4 \otimes e_8 + \frac{4}{349}\sqrt{858}e^1 \otimes e_5$	{123789, 128, 235689, 25678}
942:121	$0, 0, 0, 0, 0, \frac{4}{677}\sqrt{295}e^{12}, \frac{52}{677}\sqrt{2}e^{13}, \frac{4}{677}\sqrt{347}e^{16},$ $\frac{8}{677}\sqrt{65}e^{17} + \frac{20}{677}\sqrt{17}e^{34}$	$(\frac{9}{677}, -\frac{8}{677}, -\frac{34}{677}, \frac{18}{677}, \frac{53}{677}, \frac{1}{677}, -\frac{25}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^2 \otimes e_9 + \frac{4}{677}\sqrt{390}e^4 \otimes e_8$	{1258, 128, 25678, 2678}
942:121	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{9682}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{2}{91}\sqrt{1133}e^{16},$ $\frac{5}{91}\sqrt{206}e^{17} + \frac{2}{91}\sqrt{1133}e^{34}$	$(-\frac{3}{91}, \frac{44}{91}, \frac{19}{91}, -\frac{6}{91}, -\frac{59}{91}, \frac{41}{91}, \frac{16}{91}, \frac{38}{91}, \frac{1}{7})$ $+ \frac{5}{91}\sqrt{618}e^2 \otimes e_5$	{123789, 128, 135679, 156, 23689, 2678, 359, 57}
942:121	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{82}e^{12}, \frac{4}{31}\sqrt{30}e^{13}, \frac{14}{31}\sqrt{2}e^{16},$ $\frac{2}{31}\sqrt{118}e^{17} + \frac{2}{31}\sqrt{122}e^{34}$	$(0, -\frac{4}{31}, \frac{3}{31}, 0, \frac{7}{31}, -\frac{4}{31}, \frac{3}{31}, -\frac{4}{31}, \frac{3}{31})$ $+ \frac{2}{31}\sqrt{114}e^4 \otimes e_8 + \frac{2}{31}\sqrt{66}e^1 \otimes e_2 + \frac{2}{31}\sqrt{6}e^5 \otimes e_9$	{123789, 1258}
942:121	$0, 0, 0, 0, 0, \frac{14}{337}\sqrt{142}e^{12}, \frac{70}{337}\sqrt{10}e^{13}, \frac{28}{337}\sqrt{2}e^{16},$ $\frac{70}{337}\sqrt{10}e^{17} + \frac{28}{337}\sqrt{23}e^{34}$	$(\frac{79}{337}, -\frac{117}{337}, -\frac{42}{337}, \frac{158}{337}, -\frac{38}{337}, -\frac{38}{337}, \frac{37}{337}, \frac{41}{337}, \frac{116}{337})$ $+ \frac{210}{337}\sqrt{2}e^1 \otimes e_2 + \frac{70}{337}\sqrt{6}e^4 \otimes e_5$	{13489, 1478, 23479, 24}
942:122	$0, 0, 0, 0, 0, \frac{2}{1089}\sqrt{19339}e^{12}, \frac{2}{1089}\sqrt{1398}e^{13}, \frac{2}{1089}\sqrt{50095}e^{16},$ $\frac{2}{363}\sqrt{9553}e^{24} + \frac{2}{1089}\sqrt{15145}e^{37}$	$(-\frac{4}{363}, -\frac{172}{1089}, \frac{5}{99}, \frac{30}{121}, \frac{188}{363}, -\frac{184}{1089}, \frac{43}{1089}, -\frac{196}{1089}, \frac{98}{1089})$ $+ \frac{10}{1089}\sqrt{4893}e^4 \otimes e_8 + \frac{10}{363}\sqrt{466}e^5 \otimes e_9$	{1234567, 12456, 13578, 158}
942:122	$0, 0, 0, 0, 0, \frac{12}{89}\sqrt{55}e^{12}, \frac{1}{89}\sqrt{2090}e^{13}, \frac{1}{89}\sqrt{1870}e^{16},$ $\frac{1}{89}\sqrt{2090}e^{24} + \frac{1}{89}\sqrt{1870}e^{37}$	$(-\frac{19}{89}, \frac{125}{178}, \frac{17}{89}, -\frac{95}{178}, \frac{16}{89}, \frac{87}{178}, -\frac{2}{89}, \frac{49}{178}, \frac{15}{89})$ $+ \frac{8}{89}\sqrt{4015}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:122	$0, 0, 0, 0, 0, \frac{14}{143}\sqrt{11}e^{12}, \frac{6}{143}\sqrt{77}e^{13}, \frac{5}{143}\sqrt{154}e^{16},$ $\frac{3}{143}\sqrt{154}e^{24} + \frac{14}{143}\sqrt{22}e^{37}$	$(-\frac{38}{143}, \frac{46}{143}, \frac{47}{143}, \frac{10}{143}, -\frac{31}{143}, \frac{8}{143}, \frac{9}{143}, -\frac{30}{143}, \frac{56}{143})$ $+ \frac{10}{143}\sqrt{77}e^2 \otimes e_5 + \frac{2}{143}\sqrt{2849}e^3 \otimes e_8$	{12789, 134569, 2468, 357}
942:122	$0, 0, 0, 0, 0, \frac{28}{1161}\sqrt{530}e^{12}, \frac{14}{1161}\sqrt{85}e^{13}, \frac{14}{1161}\sqrt{1145}e^{16},$ $\frac{112}{1161}\sqrt{10}e^{24} + \frac{28}{1161}\sqrt{105}e^{37}$	$(\frac{34}{1161}, \frac{95}{387}, \frac{23}{1161}, -\frac{205}{1161}, -\frac{152}{387}, \frac{319}{1161}, \frac{19}{387}, \frac{353}{1161}, \frac{80}{1161})$ $+ \frac{140}{1161}\sqrt{29}e^1 \otimes e_5 + \frac{14}{1161}\sqrt{2285}e^2 \otimes e_4$	{235678, 2568, 3457, 45}
942:122	$0, 0, 0, 0, 0, \frac{1}{214}\sqrt{7598}e^{12}, \frac{1}{428}\sqrt{37990}e^{13}, \frac{1}{428}\sqrt{3930}e^{16},$ $\frac{1}{428}\sqrt{19126}e^{24} + \frac{1}{428}\sqrt{53186}e^{37}$	$(-\frac{73}{428}, \frac{377}{856}, \frac{47}{214}, -\frac{147}{856}, -\frac{42}{107}, \frac{231}{856}, \frac{21}{428}, \frac{85}{856}, \frac{115}{428})$ $+ \frac{1}{214}\sqrt{28558}e^3 \otimes e_5 + \frac{2}{107}\sqrt{1310}e^2 \otimes e_4$	{2367, 256, 3478, 458}
942:122	$0, 0, 0, 0, 0, \frac{4}{481}\sqrt{4710}e^{12}, \frac{2}{481}\sqrt{9106}e^{13}, \frac{2}{1443}\sqrt{151662}e^{16},$ $\frac{2}{1443}\sqrt{44745}e^{24} + \frac{2}{1443}\sqrt{40035}e^{37}$	$(-\frac{116}{481}, \frac{14}{37}, \frac{83}{481}, -\frac{132}{481}, \frac{264}{481}, \frac{66}{481}, -\frac{33}{481}, -\frac{50}{481}, \frac{50}{481})$ $+ \frac{2}{481}\sqrt{34069}e^2 \otimes e_4 + \frac{4}{1443}\sqrt{74418}e^5 \otimes e_8$	{12378, 128, 134567, 1456}
942:122	$0, 0, 0, 0, 0, \frac{2}{377}\sqrt{20001}e^{12}, \frac{10}{377}\sqrt{339}e^{13}, \frac{1}{377}\sqrt{73902}e^{16},$ $\frac{9}{377}\sqrt{226}e^{24} + \frac{8}{377}\sqrt{339}e^{37}$	$(\frac{100}{377}, -\frac{22}{377}, -\frac{1}{29}, \frac{96}{377}, -\frac{239}{377}, \frac{6}{13}, \frac{3}{377}, \frac{178}{377}, \frac{74}{377})$ $+ \frac{2}{377}\sqrt{52206}e^1 \otimes e_5$	{123489, 124789, 1369, 1679, 235678, 2568, 3457, 45}
942:122	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{66}e^{12}, \frac{1}{57}\sqrt{627}e^{13}, \frac{1}{19}\sqrt{55}e^{16},$ $\frac{1}{57}\sqrt{627}e^{24} + \frac{1}{19}\sqrt{55}e^{37}$	$(-\frac{2}{19}, \frac{1}{38}, \frac{5}{19}, \frac{15}{38}, -\frac{6}{19}, -\frac{3}{38}, \frac{3}{19}, -\frac{7}{38}, \frac{8}{19})$ $+ \frac{5}{57}\sqrt{66}e^3 \otimes e_5 + \frac{5}{57}\sqrt{66}e^4 \otimes e_8$	{2347, 245, 3678, 568}
942:122	$0, 0, 0, 0, 0, \frac{8}{561}\sqrt{309}e^{12}, \frac{2}{561}\sqrt{16377}e^{13}, \frac{2}{187}\sqrt{1545}e^{16},$ $\frac{1}{561}\sqrt{37698}e^{24} + \frac{1}{187}\sqrt{7210}e^{37}$	$(-\frac{31}{187}, \frac{14}{187}, \frac{5}{17}, \frac{65}{187}, -\frac{38}{187}, -\frac{1}{11}, \frac{24}{187}, -\frac{48}{187}, \frac{79}{187})$ $+ \frac{1}{561}\sqrt{114330}e^4 \otimes e_5 + \frac{1}{561}\sqrt{188490}e^3 \otimes e_8$	{123569, 14789, 2347, 568}
942:122	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{411}e^{12}, \frac{4}{123}\sqrt{137}e^{13}, \frac{1}{123}\sqrt{1370}e^{16},$ $\frac{1}{123}\sqrt{9042}e^{24} + \frac{2}{123}\sqrt{2055}e^{37}$	$(\frac{16}{123}, -\frac{4}{123}, -\frac{5}{41}, -\frac{10}{123}, 1, \frac{4}{41}, \frac{1}{123}, \frac{28}{123}, -\frac{14}{123})$ $+ \frac{10}{123}\sqrt{274}e^5 \otimes e_9$	{12369, 12679, 13489, 14789, 23457, 245, 35678, 568}
942:122	$0, 0, 0, 0, 0, \frac{25}{1969}\sqrt{182}e^{12}, \frac{50}{1969}\sqrt{109}e^{13}, \frac{25}{1969}\sqrt{527}e^{16},$ $\frac{25}{1969}\sqrt{129}e^{24} + \frac{25}{1969}\sqrt{1031}e^{37}$	$(-\frac{375}{1969}, \frac{400}{1969}, \frac{25}{179}, \frac{225}{1969}, \frac{800}{1969}, \frac{25}{1969}, -\frac{100}{1969}, \frac{350}{1969}, \frac{175}{1969})$ $+ \frac{25}{1969}\sqrt{1205}e^5 \otimes e_9 + \frac{25}{1969}\sqrt{1622}e^3 \otimes e_8 + \frac{50}{1969}\sqrt{179}e^2 \otimes e_4$	{12789, 13469}
942:122	$0, 0, 0, 0, 0, \frac{6}{4369}\sqrt{37433}e^{12}, \frac{4}{4369}\sqrt{66649}e^{13}, \frac{2}{4369}\sqrt{86461}e^{16},$ $\frac{2}{257}\sqrt{4565}e^{24} + \frac{2}{4369}\sqrt{305855}e^{37}$	$(-\frac{584}{4369}, \frac{446}{4369}, \frac{1067}{4369}, \frac{1104}{4369}, -\frac{1380}{4369}, -\frac{138}{4369}, \frac{483}{4369}, -\frac{722}{4369}, \frac{1550}{4369})$ $+ \frac{2}{4369}\sqrt{1925517}e^4 \otimes e_8 + \frac{4}{4369}\sqrt{415415}e^2 \otimes e_5$	{123789, 1289, 1345679, 14569}
942:122	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{34}e^{12}, \frac{1}{36}\sqrt{102}e^{13}, \frac{5}{36}\sqrt{34}e^{16},$ $\frac{1}{12}\sqrt{102}e^{24} + \frac{1}{36}\sqrt{170}e^{37}$	$(-\frac{1}{12}, -\frac{11}{72}, \frac{5}{18}, \frac{5}{8}, \frac{1}{6}, -\frac{17}{72}, \frac{7}{36}, -\frac{23}{72}, \frac{17}{36})$ $+ \frac{1}{18}\sqrt{510}e^4 \otimes e_8$	{234, 2345, 2457, 247, 3568, 368, 5678, 678}
942:122	$0, 0, 0, 0, 0, \frac{2}{301}\sqrt{239}e^{12}, \frac{2}{301}\sqrt{9082}e^{13}, \frac{5}{301}\sqrt{1434}e^{16},$ $\frac{2}{301}\sqrt{8126}e^{24} + \frac{2}{301}\sqrt{12667}e^{37}$	$(-\frac{96}{301}, \frac{72}{301}, \frac{17}{43}, \frac{10}{43}, \frac{53}{301}, -\frac{24}{301}, \frac{23}{123}, -\frac{120}{301}, \frac{142}{301})$ $+ \frac{4}{301}\sqrt{7409}e^3 \otimes e_8$	{1234569, 123469, 15789, 1789, 2357, 237, 4568, 468}
942:122	$0, 0, 0, 0, 0, \frac{4}{537}\sqrt{609}e^{12}, \frac{2}{537}\sqrt{9338}e^{13}, \frac{4}{537}\sqrt{2030}e^{16},$ $\frac{14}{537}\sqrt{87}e^{24} + \frac{1}{537}\sqrt{66990}e^{37}$	$(-\frac{86}{537}, \frac{44}{537}, \frac{25}{179}, \frac{20}{537}, \frac{89}{179}, -\frac{14}{179}, -\frac{11}{537}, -\frac{128}{537}, \frac{64}{537})$ $+ \frac{1}{537}\sqrt{83230}e^5 \otimes e_9 + \frac{2}{179}\sqrt{3045}e^3 \otimes e_8$	{12369, 14789, 23457, 568}
942:122	$0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{317265}e^{12}, \frac{4}{1457}\sqrt{16270}e^{13}, \frac{1}{1457}\sqrt{374210}e^{16},$ $\frac{1}{1457}\sqrt{1194218}e^{24} + \frac{2}{1457}\sqrt{27659}e^{37}$	$(-\frac{160}{1457}, \frac{700}{1457}, \frac{379}{1457}, -\frac{102}{1457}, -\frac{927}{1457}, \frac{540}{1457}, \frac{219}{1457}, \frac{380}{1457}, \frac{598}{1457})$ $+ \frac{4}{1457}\sqrt{242423}e^2 \otimes e_5$	{123789, 1289, 1345679, 14569, 23468, 24678, 35, 57}
942:122	$0, 0, 0, 0, 0, \frac{4}{701}\sqrt{4810}e^{12}, \frac{2}{701}\sqrt{14245}e^{13}, \frac{2}{701}\sqrt{23865}e^{16},$ $\frac{16}{701}\sqrt{185}e^{24} + \frac{8}{701}\sqrt{2035}e^{37}$	$(-\frac{222}{701}, \frac{285}{701}, \frac{211}{701}, -\frac{85}{701}, \frac{88}{701}, \frac{63}{701}, -\frac{11}{701}, -\frac{159}{701}, \frac{200}{701})$ $+ \frac{2}{701}\sqrt{43845}e^2 \otimes e_4 + \frac{4}{701}\sqrt{17390}e^3 \otimes e_8$	{2568, 268, 3457, 347}
942:122	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{29}e^{12}, \frac{2}{23}\sqrt{29}e^{13}, \frac{5}{69}\sqrt{174}e^{16},$ $\frac{1}{69}\sqrt{174}e^{24} + \frac{2}{69}\sqrt{174}e^{37}$	$(-\frac{4}{23}, \frac{2}{23}, \frac{5}{23}, \frac{4}{23}, 1, -\frac{2}{23}, \frac{1}{23}, -\frac{6}{23}, \frac{6}{23})$ $+ \frac{4}{69}\sqrt{609}e^5 \otimes e_8$	{123478, 1248, 13567, 156, 23689, 26789, 3459, 4579}
942:122	$0, 0, 0, 0, 0, \frac{22}{961}\sqrt{197}e^{12}, \frac{2}{961}\sqrt{7289}e^{13}, \frac{4}{961}\sqrt{15169}e^{16},$ $\frac{4}{961}\sqrt{6895}e^{24} + \frac{2}{961}\sqrt{1970}e^{37}$	$(\frac{74}{961}, -\frac{151}{961}, \frac{83}{961}, \frac{391}{961}, -\frac{320}{961}, -\frac{77}{961}, \frac{157}{961}, -\frac{3}{961}, \frac{240}{961})$ $+ \frac{2}{961}\sqrt{82937}e^4 \otimes e_8 + \frac{2}{961}\sqrt{84710}e^1 \otimes e_5$	{2356789, 25689, 34579, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:122	$0, 0, 0, 0, 0, \frac{4}{945}\sqrt{12046}e^{12}, \frac{4}{945}\sqrt{2219}e^{13}, \frac{8}{945}\sqrt{951}e^{16},$ $\frac{2}{105}\sqrt{317}e^{24} + \frac{4}{945}\sqrt{49769}e^{37}$	$(-\frac{8}{135}, \frac{92}{315}, -\frac{13}{945}, -\frac{358}{945}, \frac{184}{315}, \frac{44}{189}, -\frac{23}{315}, \frac{164}{945}, -\frac{82}{945})$ $+ \frac{2}{945}\sqrt{124581}e^2 \otimes e_4 + \frac{4}{945}\sqrt{34553}e^5 \otimes e_9$	{23689, 26789, 349, 479}
942:122	$0, 0, 0, 0, 0, \frac{4}{57}\sqrt{14}e^{12}, \frac{1}{19}\sqrt{35}e^{13}, \frac{1}{57}\sqrt{427}e^{16},$ $\frac{1}{57}\sqrt{133}e^{24} + \frac{5}{57}\sqrt{14}e^{37}$	$(-\frac{4}{57}, \frac{1}{19}, \frac{3}{19}, \frac{11}{57}, -\frac{6}{19}, -\frac{1}{57}, \frac{5}{57}, -\frac{5}{57}, \frac{14}{57})$ $+ \frac{1}{57}\sqrt{679}e^1 \otimes e_5 + \frac{1}{57}\sqrt{742}e^3 \otimes e_8$	{124789, 1369, 2568, 3457}
942:122	$0, 0, 0, 0, 0, \frac{46}{1409}\sqrt{231}e^{12}, \frac{2}{1409}\sqrt{100947}e^{13}, \frac{3}{1409}\sqrt{17710}e^{16},$ $\frac{3}{1409}\sqrt{216062}e^{24} + \frac{10}{1409}\sqrt{3542}e^{37}$	$(\frac{228}{1409}, -\frac{162}{1409}, \frac{235}{1409}, \frac{860}{1409}, \frac{911}{1409}, \frac{66}{1409}, \frac{463}{1409}, \frac{294}{1409}, \frac{698}{1409})$ $+ \frac{4}{1409}\sqrt{256795}e^4 \otimes e_5$	{12346, 12467, 1358, 1578, 23579, 259, 346789, 4689}
942:122	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{34}e^{12}, \frac{1}{12}\sqrt{102}e^{13}, \frac{1}{36}\sqrt{170}e^{16},$ $\frac{1}{36}\sqrt{102}e^{24} + \frac{5}{36}\sqrt{34}e^{37}$	$(-\frac{1}{12}, \frac{19}{72}, \frac{5}{18}, \frac{5}{24}, -\frac{2}{3}, \frac{13}{72}, \frac{7}{36}, \frac{7}{72}, \frac{17}{36})$ $+ \frac{1}{18}\sqrt{510}e^3 \otimes e_5$	{1234689, 12456789, 139, 1579, 2378, 258, 3467, 456}
942:123	$0, 0, 0, 0, 0, \frac{4}{401}\sqrt{4110}e^{12}, \frac{4}{401}\sqrt{4110}e^{13}, \frac{5}{401}\sqrt{822}e^{26},$ $\frac{9}{401}\sqrt{822}e^{14} + \frac{2}{401}\sqrt{411}e^{37}$	$(\frac{160}{401}, -\frac{30}{401}, -\frac{3}{401}, -\frac{6}{401}, -\frac{251}{401}, \frac{130}{401}, \frac{157}{401}, \frac{100}{401}, \frac{154}{401})$ $+ \frac{2}{401}\sqrt{66993}e^1 \otimes e_5$	{12348, 12478, 13468, 14678, 2345679, 24569, 34579, 459}
942:123	$0, 0, 0, 0, 0, \frac{440}{3889}\sqrt{15}e^{12}, \frac{44}{3889}\sqrt{170}e^{13}, \frac{44}{3889}\sqrt{1090}e^{26},$ $\frac{66}{3889}\sqrt{85}e^{14} + \frac{22}{3889}\sqrt{4105}e^{37}$	$(\frac{272}{3889}, \frac{544}{3889}, -\frac{469}{3889}, \frac{938}{3889}, \frac{488}{3889}, \frac{816}{3889}, -\frac{197}{3889}, \frac{1360}{3889}, -\frac{666}{3889})$ $+ \frac{22}{3889}\sqrt{6365}e^1 \otimes e_4 + \frac{88}{3889}\sqrt{665}e^2 \otimes e_9$	{135689, 13689, 156789, 16789}
942:123	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{2}e^{13}, \frac{2}{21}\sqrt{21}e^{26},$ $\frac{1}{21}\sqrt{30}e^{14} + \frac{4}{21}\sqrt{3}e^{37}$	$(-\frac{1}{7}, \frac{1}{7}, 0, 0, \frac{3}{7}, 0, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{21}\sqrt{78}e^5 \otimes e_8 + \frac{4}{7}e^2 \otimes e_9$	{123478, 1248, 3459, 4579}
942:123	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{402}e^{12}, \frac{1}{53}\sqrt{402}e^{13}, \frac{1}{53}\sqrt{402}e^{26},$ $\frac{1}{53}\sqrt{2814}e^{14} + \frac{2}{53}\sqrt{134}e^{37}$	$(-\frac{6}{53}, \frac{9}{53}, \frac{16}{53}, \frac{32}{53}, -\frac{35}{53}, \frac{3}{53}, \frac{10}{53}, \frac{12}{53}, \frac{26}{53})$ $+ \frac{2}{53}\sqrt{1474}e^4 \otimes e_5$	{1235679, 12569, 13579, 159, 2358, 2578, 3568, 5678}
942:123	$0, 0, 0, 0, 0, \frac{2}{4749}\sqrt{466543}e^{12}, \frac{2}{4749}\sqrt{1393205}e^{13}, \frac{8}{4749}\sqrt{8030}e^{26},$ $\frac{2}{4749}\sqrt{832711}e^{14} + \frac{10}{4749}\sqrt{40953}e^{37}$	$(\frac{1162}{4749}, -\frac{87}{1583}, \frac{74}{1583}, \frac{148}{1583}, \frac{1828}{3889}, \frac{901}{4749}, \frac{940}{4749}, \frac{640}{4749}, \frac{718}{4749})$ $+ \frac{2}{4749}\sqrt{1574683}e^1 \otimes e_4 + \frac{4}{4749}\sqrt{463331}e^3 \otimes e_5$	{23467, 2456, 347, 45}
942:123	$0, 0, 0, 0, 0, \frac{1}{1319}\sqrt{48282}e^{12}, \frac{2}{1319}\sqrt{124419}e^{13}, \frac{2}{1319}\sqrt{109563}e^{26},$ $\frac{1}{1319}\sqrt{129990}e^{14} + \frac{1}{1319}\sqrt{481582}e^{37}$	$(-\frac{78}{1319}, -\frac{135}{1319}, \frac{271}{1319}, \frac{542}{1319}, -\frac{77}{1319}, -\frac{213}{1319}, \frac{193}{1319}, -\frac{348}{1319}, \frac{464}{1319})$ $+ \frac{1}{1319}\sqrt{318166}e^4 \otimes e_5 + \frac{42}{1319}\sqrt{619}e^3 \otimes e_8$	{123469, 1349, 248, 468}
942:123	$0, 0, 0, 0, 0, \frac{12}{395}\sqrt{667}e^{12}, \frac{12}{395}\sqrt{667}e^{13}, \frac{12}{395}\sqrt{138}e^{26},$ $\frac{138}{395}\sqrt{3}e^{14} + \frac{6}{395}\sqrt{1081}e^{37}$	$(\frac{232}{395}, -\frac{68}{395}, -\frac{91}{395}, -\frac{182}{395}, \frac{72}{395}, \frac{164}{395}, \frac{141}{395}, \frac{96}{395}, \frac{10}{395})$ $+ \frac{6}{395}\sqrt{7429}e^1 \otimes e_4$	{234567, 23467, 2456, 246, 3457, 347, 4, 45}
942:123	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{110}e^{12}, \frac{1}{49}\sqrt{110}e^{13}, \frac{1}{49}\sqrt{330}e^{26},$ $\frac{1}{49}\sqrt{1430}e^{14} + \frac{2}{49}\sqrt{330}e^{37}$	$(-\frac{2}{49}, \frac{1}{7}, -\frac{2}{49}, -\frac{4}{49}, \frac{1}{49}, \frac{5}{49}, -\frac{4}{49}, \frac{12}{49}, -\frac{6}{49})$ $+ \frac{20}{49}\sqrt{11}e^5 \otimes e_9$	{1234567, 12456, 13457, 145, 23489, 24789, 34689, 46789}
942:123	$0, 0, 0, 0, 0, \frac{10}{1531}\sqrt{1047}e^{12}, \frac{4}{1531}\sqrt{4886}e^{13}, \frac{2}{4593}\sqrt{534319}e^{26},$ $\frac{2}{1531}\sqrt{50605}e^{14} + \frac{26}{4593}\sqrt{1047}e^{37}$	$(-\frac{336}{1531}, \frac{620}{4593}, \frac{155}{1531}, \frac{310}{1531}, \frac{156}{1531}, -\frac{388}{4593}, -\frac{181}{1531}, \frac{232}{4593}, -\frac{26}{1531})$ $+ \frac{2}{1531}\sqrt{91438}e^2 \otimes e_9 + \frac{2}{4593}\sqrt{616683}e^4 \otimes e_8$	{3459, 349, 4579, 479}
942:123	$0, 0, 0, 0, 0, \frac{7}{87}\sqrt{6}e^{12}, \frac{7}{29}\sqrt{2}e^{13}, \frac{7}{87}\sqrt{58}e^{26},$ $\frac{7}{87}\sqrt{30}e^{14} + \frac{28}{87}\sqrt{3}e^{37}$	$(-\frac{6}{29}, \frac{31}{87}, 0, 0, \frac{5}{29}, \frac{13}{87}, -\frac{6}{29}, \frac{44}{87}, -\frac{6}{29})$ $+ \frac{28}{29}e^2 \otimes e_9$	{1234578, 123478, 12458, 1248, 3459, 349, 4579, 479}
942:123	$0, 0, 0, 0, 0, \frac{7}{771}\sqrt{123}e^{12}, \frac{7}{257}\sqrt{7}e^{13}, \frac{140}{771}\sqrt{3}e^{26},$ $\frac{7}{771}\sqrt{201}e^{14} + \frac{7}{771}\sqrt{786}e^{37}$	$(\frac{7}{257}, \frac{14}{257}, -\frac{21}{257}, -\frac{42}{257}, \frac{84}{257}, \frac{21}{257}, -\frac{14}{257}, \frac{35}{257}, -\frac{35}{257})$ $+ \frac{14}{257}\sqrt{58}e^2 \otimes e_9 + \frac{7}{257}\sqrt{114}e^1 \otimes e_4 + \frac{7}{771}\sqrt{1041}e^5 \otimes e_8$	{13689, 16789}
942:123	$0, 0, 0, 0, 0, \frac{20}{1117}\sqrt{393}e^{12}, \frac{1}{1117}\sqrt{1310}e^{13}, \frac{1}{1117}\sqrt{127070}e^{26},$ $\frac{1}{1117}\sqrt{112398}e^{14} + \frac{6}{1117}\sqrt{2489}e^{37}$	$(\frac{5}{1117}, \frac{185}{1117}, -\frac{41}{1117}, -\frac{82}{1117}, -\frac{257}{1117}, \frac{190}{1117}, -\frac{36}{1117}, \frac{375}{1117}, -\frac{77}{1117})$ $+ \frac{1}{1117}\sqrt{204098}e^1 \otimes e_5 + \frac{2}{1117}\sqrt{77945}e^2 \otimes e_9$	{13689, 16789, 23567, 256}
942:123	$0, 0, 0, 0, 0, \frac{2}{4381}\sqrt{202211}e^{12}, \frac{2}{4381}\sqrt{763545}e^{13}, \frac{16}{4381}\sqrt{7005}e^{26},$ $\frac{2}{4381}\sqrt{446919}e^{14} + \frac{2}{4381}\sqrt{597293}e^{37}$	$(\frac{866}{4381}, -\frac{917}{4381}, -\frac{34}{4381}, -\frac{68}{4381}, \frac{476}{4381}, -\frac{51}{4381}, \frac{64}{337}, -\frac{968}{4381}, \frac{798}{4381})$ $+ \frac{2}{4381}\sqrt{700967}e^1 \otimes e_4 + \frac{4}{4381}\sqrt{280667}e^3 \otimes e_8$	{234567, 23467, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:123	$0, 0, 0, 0, 0, \frac{2}{1105}\sqrt{13514e^{12}}, \frac{2}{1105}\sqrt{13514e^{13}}, \frac{4}{1105}\sqrt{12349e^{26}},$ $\frac{4}{1105}\sqrt{20737e^{14}} + \frac{2}{1105}\sqrt{18407e^{37}}$	$(\frac{116}{1105}, -\frac{151}{1105}, \frac{28}{221}, \frac{56}{221}, -\frac{70}{221}, -\frac{7}{221}, \frac{256}{1105}, -\frac{186}{1105}, \frac{396}{1105})$ $+ \frac{2}{1105}\sqrt{109277e^1} \otimes e_5 + \frac{2}{1105}\sqrt{120461e^4} \otimes e_8$	{2345679, 24569, 34579, 459}
942:123	$0, 0, 0, 0, 0, \frac{8}{117}\sqrt{37e^{12}}, \frac{8}{117}\sqrt{37e^{13}}, \frac{2}{117}\sqrt{185e^{26}},$ $\frac{4}{117}\sqrt{37e^{14}} + \frac{4}{117}\sqrt{185e^{37}}$	$(\frac{32}{117}, -\frac{2}{39}, -\frac{7}{39}, -\frac{14}{39}, \frac{64}{117}, \frac{2}{9}, \frac{11}{117}, \frac{20}{117}, -\frac{10}{117})$ $+ \frac{14}{117}\sqrt{37e^5} \otimes e_9 + \frac{2}{117}\sqrt{1961e^1} \otimes e_4$	{12389, 12789, 13689, 16789}
942:123	$0, 0, 0, 0, 0, \frac{2}{1587}\sqrt{171262e^{12}}, \frac{2}{4761}\sqrt{498730e^{13}}, \frac{8}{4761}\sqrt{53637e^{26}},$ $\frac{2}{4761}\sqrt{642703e^{14}} + \frac{2}{4761}\sqrt{377341e^{37}}$	$(\frac{1060}{4761}, \frac{62}{1587}, -\frac{137}{1587}, \frac{274}{1587}, -\frac{1696}{4761}, \frac{1246}{4761}, \frac{649}{4761}, \frac{1432}{4761}, \frac{238}{4761})$ $+ \frac{10}{529}\sqrt{941e^1} \otimes e_4 + \frac{2}{4761}\sqrt{521314e^2} \otimes e_5$	{23467, 246, 3457, 45}
942:123	$0, 0, 0, 0, 0, \frac{26}{1403}\sqrt{355e^{12}}, \frac{182}{4209}\sqrt{30e^{13}}, \frac{26}{4209}\sqrt{7015e^{26}},$ $\frac{26}{1403}\sqrt{385e^{14}} + \frac{78}{1403}\sqrt{5e^{37}}$	$(-\frac{196}{1403}, \frac{274}{4209}, \frac{275}{1403}, \frac{550}{1403}, -\frac{472}{1403}, -\frac{314}{4209}, \frac{79}{1403}, -\frac{40}{4209}, \frac{354}{1403})$ $+ \frac{26}{4209}\sqrt{9330e^2} \otimes e_5 + \frac{26}{4209}\sqrt{9465e^4} \otimes e_8$	{123789, 1289, 1356789, 15689}
942:123	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{273e^{12}}, \frac{2}{131}\sqrt{455e^{13}}, \frac{1}{393}\sqrt{23842e^{26}},$ $\frac{1}{393}\sqrt{12558e^{14}} + \frac{2}{131}\sqrt{546e^{37}}$	$(-\frac{10}{131}, -\frac{2}{393}, \frac{19}{131}, \frac{38}{131}, -\frac{31}{131}, -\frac{32}{393}, \frac{9}{131}, -\frac{34}{393}, \frac{28}{131})$ $+ \frac{14}{393}\sqrt{195e^3} \otimes e_8 + \frac{2}{393}\sqrt{6279e^2} \otimes e_5$	{124789, 1456789, 23467, 3457}
942:123	$0, 0, 0, 0, 0, \frac{2}{479}\sqrt{1043e^{12}}, \frac{2}{479}\sqrt{9238e^{13}}, \frac{1}{479}\sqrt{33078e^{26}},$ $\frac{5}{479}\sqrt{298e^{14}} + \frac{4}{479}\sqrt{3129e^{37}}$	$(-\frac{28}{479}, -\frac{40}{479}, \frac{41}{479}, \frac{82}{479}, \frac{203}{479}, \frac{68}{479}, \frac{13}{479}, -\frac{108}{479}, \frac{54}{479})$ $+ \frac{2}{479}\sqrt{10877e^5} \otimes e_9 + \frac{2}{479}\sqrt{20562e^3} \otimes e_8$	{123469, 1349, 2458, 4568}
942:123	$0, 0, 0, 0, 0, \frac{2}{177}\sqrt{5467e^{12}}, \frac{2}{531}\sqrt{4970e^{13}}, \frac{1}{531}\sqrt{175938e^{26}},$ $\frac{1}{531}\sqrt{42742e^{14}} + \frac{2}{531}\sqrt{11431e^{37}}$	$(-\frac{40}{531}, \frac{52}{177}, \frac{23}{177}, \frac{46}{177}, -\frac{341}{531}, \frac{116}{531}, \frac{29}{531}, \frac{272}{531}, \frac{98}{531})$ $+ \frac{2}{531}\sqrt{108346e^2} \otimes e_5$	{12378, 128, 135678, 1568, 2369, 2679, 359, 579}
942:123	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{455e^{12}}, \frac{1}{229}\sqrt{10815e^{13}}, \frac{1}{229}\sqrt{7315e^{26}},$ $\frac{21}{229}\sqrt{5e^{14}} + \frac{5}{229}\sqrt{322e^{37}}$	$(\frac{26}{229}, -\frac{37}{229}, \frac{22}{229}, \frac{44}{229}, -\frac{44}{229}, -\frac{11}{229}, \frac{48}{229}, -\frac{48}{229}, \frac{70}{229})$ $+ \frac{17}{229}\sqrt{35e^1} \otimes e_5 + \frac{1}{229}\sqrt{17990e^3} \otimes e_8$	{124789, 146789, 234567, 3457}
942:123	$0, 0, 0, 0, 0, \frac{2}{539}\sqrt{859e^{12}}, \frac{2}{1617}\sqrt{283470e^{13}}, \frac{1}{1617}\sqrt{18898e^{26}},$ $\frac{1}{1617}\sqrt{592710e^{14}} + \frac{2}{1617}\sqrt{280893e^{37}}$	$(-\frac{12}{539}, -\frac{260}{1617}, \frac{101}{539}, \frac{202}{539}, \frac{87}{539}, \frac{296}{1617}, \frac{89}{1617}, -\frac{556}{1617}, \frac{190}{539})$ $+ \frac{2}{1617}\sqrt{582402e^3} \otimes e_8$	{1234569, 123469, 13459, 1349, 2458, 248, 4568, 468}
942:123	$0, 0, 0, 0, 0, \frac{19}{128}\sqrt{5e^{12}}, \frac{19}{128}\sqrt{5e^{13}}, \frac{19}{24}e^{26},$ $\frac{19}{128}\sqrt{34e^{14}} + \frac{19}{192}\sqrt{15e^{37}}$	$(-\frac{15}{128}, -\frac{85}{768}, \frac{77}{256}, \frac{77}{128}, \frac{21}{128}, -\frac{175}{768}, \frac{47}{256}, -\frac{65}{192}, \frac{31}{64})$ $+ \frac{19}{384}\sqrt{642e^4} \otimes e_8$	{2358, 238, 2578, 278, 3568, 368, 5678, 678}
942:123	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{14e^{12}}, \frac{1}{11}\sqrt{14e^{13}}, \frac{2}{33}\sqrt{231e^{26}},$ $\frac{1}{33}\sqrt{42e^{14}} + \frac{2}{33}\sqrt{42e^{37}}$	$(\frac{1}{11}, -\frac{2}{11}, \frac{1}{11}, \frac{2}{11}, 1, -\frac{1}{11}, \frac{2}{11}, -\frac{3}{11}, \frac{3}{11})$ $+ \frac{1}{33}\sqrt{2226e^5} \otimes e_8$	{12389, 12789, 13689, 16789, 23567, 256, 357, 5}
942:123	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{1159e^{12}}, \frac{1}{146}\sqrt{1159e^{13}}, \frac{1}{146}\sqrt{3477e^{26}},$ $\frac{1}{146}\sqrt{6405e^{14}} + \frac{1}{146}\sqrt{915e^{37}}$	$(-\frac{19}{146}, -\frac{9}{292}, \frac{33}{292}, \frac{33}{146}, \frac{75}{146}, -\frac{47}{292}, -\frac{5}{292}, -\frac{14}{73}, \frac{7}{73})$ $+ \frac{11}{146}\sqrt{61e^5} \otimes e_9 + \frac{1}{146}\sqrt{8662e^4} \otimes e_8$	{1234567, 12456, 13457, 145}
942:123	$0, 0, 0, 0, 0, \frac{4}{1299}\sqrt{2346e^{12}}, \frac{2}{1299}\sqrt{10047e^{13}}, \frac{2}{1299}\sqrt{22083e^{26}},$ $\frac{2}{433}\sqrt{221e^{14}} + \frac{2}{1299}\sqrt{22746e^{37}}$	$(-\frac{65}{433}, \frac{31}{433}, \frac{31}{433}, \frac{62}{433}, \frac{49}{433}, -\frac{34}{433}, -\frac{34}{433}, -\frac{3}{433}, -\frac{3}{433})$ $+ \frac{2}{1299}\sqrt{28713e^2} \otimes e_9 + \frac{2}{1299}\sqrt{30039e^3} \otimes e_8$	{1456789, 146789, 234567, 23467}
942:123	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{209e^{12}}, \frac{1}{31}\sqrt{209e^{13}}, \frac{4}{93}\sqrt{114e^{26}},$ $\frac{19}{93}\sqrt{3e^{14}} + \frac{1}{93}\sqrt{798e^{37}}$	$(\frac{11}{31}, -\frac{7}{31}, -\frac{4}{31}, -\frac{8}{31}, \frac{16}{31}, \frac{4}{31}, \frac{7}{31}, -\frac{3}{31}, \frac{3}{31})$ $+ \frac{1}{31}\sqrt{570e^1} \otimes e_4 + \frac{1}{93}\sqrt{4161e^5} \otimes e_8$	{234567, 2456, 3457, 45}
942:123	$0, 0, 0, 0, 0, \frac{3}{1673}\sqrt{32230e^{12}}, \frac{39}{1673}\sqrt{110e^{13}}, \frac{15}{1673}\sqrt{1562e^{26}},$ $\frac{12}{1673}\sqrt{1870e^{14}} + \frac{12}{1673}\sqrt{3795e^{37}}$	$(-\frac{270}{1673}, \frac{417}{1673}, \frac{96}{1673}, \frac{192}{1673}, -\frac{57}{239}, \frac{21}{31}, -\frac{174}{1673}, \frac{564}{1673}, -\frac{78}{1673})$ $+ \frac{12}{1673}\sqrt{5885e^2} \otimes e_9 + \frac{24}{1673}\sqrt{1045e^3} \otimes e_5$	{13689, 156789, 2367, 256}
942:123	$0, 0, 0, 0, 0, \frac{4}{2665}\sqrt{22710e^{12}}, \frac{2}{2665}\sqrt{376229e^{13}}, \frac{6}{2665}\sqrt{40121e^{26}},$ $\frac{2}{2665}\sqrt{150643e^{14}} + \frac{2}{2665}\sqrt{345949e^{37}}$	$(-\frac{48}{533}, -\frac{21}{2665}, \frac{616}{2665}, \frac{1232}{2665}, -\frac{898}{2665}, -\frac{261}{2665}, \frac{376}{2665}, -\frac{282}{2665}, \frac{992}{2665})$ $+ \frac{2}{2665}\sqrt{828915e^4} \otimes e_8 + \frac{2}{2665}\sqrt{934138e^3} \otimes e_5$	{2378, 258, 3678, 568}
942:123	$0, 0, 0, 0, 0, \frac{1}{1565}\sqrt{40170e^{12}}, \frac{91}{1565}\sqrt{206e^{13}}, \frac{1}{1565}\sqrt{232986e^{26}},$ $\frac{1}{1565}\sqrt{886418e^{14}} + \frac{4}{1565}\sqrt{105781e^{37}}$	$(-\frac{6}{313}, \frac{189}{1565}, \frac{296}{1565}, \frac{592}{1565}, -\frac{1043}{1565}, \frac{159}{1565}, \frac{266}{1565}, \frac{348}{1565}, \frac{562}{1565})$ $+ \frac{4}{1565}\sqrt{218257e^3} \otimes e_5$	{123469, 1245679, 1349, 14579, 23478, 2458, 34678, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:123	$0, 0, 0, 0, 0, \frac{54}{971}\sqrt{7}e^{12}, \frac{18}{971}\sqrt{293}e^{13}, \frac{18}{971}\sqrt{185}e^{26},$ $\frac{144}{971}\sqrt{2}e^{14} + \frac{36}{971}\sqrt{70}e^{37}$	$(\frac{126}{971}, -\frac{153}{971}, -\frac{18}{971}, -\frac{36}{971}, \frac{252}{971}, -\frac{27}{971}, \frac{108}{971}, -\frac{180}{971}, \frac{90}{971})$ $+ \frac{18}{971}\sqrt{157}e^5 \otimes e_9 + \frac{18}{971}\sqrt{259}e^1 \otimes e_4 + \frac{36}{971}\sqrt{115}e^3 \otimes e_8$	{234567, 3457}
942:123	$0, 0, 0, 0, 0, \frac{3}{2021}\sqrt{56662}e^{12}, \frac{1}{2021}\sqrt{302658}e^{13}, \frac{1}{2021}\sqrt{650922}e^{26},$ $\frac{5}{2021}\sqrt{29022}e^{14} + \frac{4}{2021}\sqrt{25567}e^{37}$	$(-\frac{438}{2021}, \frac{573}{2021}, \frac{160}{2021}, \frac{320}{2021}, -\frac{371}{2021}, \frac{135}{2021}, -\frac{278}{2021}, \frac{708}{2021}, -\frac{118}{2021})$ $+ \frac{28}{2021}\sqrt{2073}e^2 \otimes e_9 + \frac{8}{2021}\sqrt{13129}e^4 \otimes e_5$	{123478, 1248, 349, 479}
942:124	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{2}e^{12}, \frac{8}{57}\sqrt{2}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{29}e^{17} + \frac{8}{57}\sqrt{29}e^{34}$	$(-\frac{2}{57}, \frac{8}{57}, -\frac{1}{19}, -\frac{4}{57}, \frac{1}{19}, \frac{2}{19}, -\frac{5}{57}, \frac{14}{57}, -\frac{7}{57})$ $+ \frac{8}{57}\sqrt{93}e^5 \otimes e_9$	{1234567, 12469, 13457, 149, 23458, 24789, 34568, 46789}
942:124	$0, 0, 0, 0, 0, \frac{4}{4017}\sqrt{30377}e^{12}, \frac{2}{4017}\sqrt{284066}e^{13}, \frac{2}{4017}\sqrt{691282}e^{26},$ $\frac{2}{4017}\sqrt{286529}e^{17} + \frac{2}{4017}\sqrt{275035}e^{34}$	$(\frac{296}{4017}, -\frac{183}{1339}, \frac{280}{1339}, \frac{592}{4017}, -\frac{350}{1339}, -\frac{253}{4017}, \frac{1136}{4017}, -\frac{802}{4017}, \frac{1432}{4017})$ $+ \frac{2}{4017}\sqrt{122411}e^4 \otimes e_5 + \frac{2}{4017}\sqrt{1711785}e^3 \otimes e_8$	{124789, 146789, 23467, 347}
942:124	$0, 0, 0, 0, 0, \frac{8}{3951}\sqrt{33698}e^{12}, \frac{8}{3951}\sqrt{2494}e^{13}, \frac{232}{3951}\sqrt{31}e^{26},$ $\frac{8}{3951}\sqrt{435}e^{17} + \frac{16}{3951}\sqrt{11455}e^{34}$	$(\frac{47}{3951}, \frac{212}{1317}, -\frac{386}{3951}, \frac{94}{3951}, -\frac{278}{1317}, \frac{683}{3951}, -\frac{113}{1317}, \frac{1319}{3951}, -\frac{292}{3951})$ $+ \frac{8}{1317}\sqrt{7337}e^2 \otimes e_9 + \frac{8}{3951}\sqrt{36366}e^4 \otimes e_5$	{1258, 1356789, 2567, 359}
942:124	$0, 0, 0, 0, 0, \frac{1}{441}\sqrt{61674}e^{12}, \frac{1}{441}\sqrt{200170}e^{13}, \frac{2}{441}\sqrt{7033}e^{26},$ $\frac{8}{441}\sqrt{1082}e^{17} + \frac{1}{441}\sqrt{61674}e^{34}$	$(-\frac{38}{147}, \frac{109}{441}, \frac{313}{441}, -\frac{76}{147}, \frac{26}{441}, -\frac{5}{441}, \frac{199}{441}, \frac{104}{441}, \frac{85}{441})$ $+ \frac{11}{441}\sqrt{3246}e^3 \otimes e_4$	{124567, 12467, 1457, 147, 2458, 248, 4568, 468}
942:124	$0, 0, 0, 0, 0, \frac{2}{1539}\sqrt{70723}e^{12}, \frac{1}{513}\sqrt{3590}e^{13}, \frac{4}{1539}\sqrt{14719}e^{26},$ $\frac{4}{1539}\sqrt{14001}e^{17} + \frac{1}{1539}\sqrt{150062}e^{34}$	$(-\frac{13}{1539}, \frac{262}{1539}, -\frac{71}{1539}, -\frac{26}{1539}, -\frac{124}{513}, \frac{83}{513}, -\frac{28}{513}, \frac{511}{1539}, -\frac{97}{1539})$ $+ \frac{1}{1539}\sqrt{398490}e^1 \otimes e_5 + \frac{1}{513}\sqrt{63902}e^2 \otimes e_9$	{1278, 13689, 256, 3579}
942:124	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{926}e^{12}, \frac{1}{738}\sqrt{60190}e^{13}, \frac{1}{738}\sqrt{36577}e^{26},$ $\frac{1}{738}\sqrt{21298}e^{17} + \frac{1}{738}\sqrt{15279}e^{34}$	$(-\frac{21}{164}, \frac{86}{369}, \frac{137}{369}, -\frac{21}{82}, -\frac{97}{246}, \frac{155}{1476}, \frac{359}{1476}, \frac{499}{1476}, \frac{85}{738})$ $+ \frac{1}{246}\sqrt{39355}e^2 \otimes e_5 + \frac{2}{369}\sqrt{15279}e^3 \otimes e_4$	{124789, 1456789, 2469, 459}
942:124	$0, 0, 0, 0, 0, \frac{2}{4269}\sqrt{81473}e^{12}, \frac{28}{4269}\sqrt{7006}e^{13}, \frac{2}{4269}\sqrt{108367}e^{26},$ $\frac{182}{4269}\sqrt{113}e^{17} + \frac{4}{4269}\sqrt{165319}e^{34}$	$(-\frac{206}{4269}, \frac{377}{4269}, \frac{390}{1423}, \frac{412}{4269}, -\frac{596}{1423}, \frac{57}{4269}, \frac{964}{4269}, \frac{548}{4269}, \frac{758}{4269})$ $+ \frac{14}{4269}\sqrt{26781}e^3 \otimes e_4 + \frac{2}{4269}\sqrt{1739409}e^1 \otimes e_5$	{12467, 147, 2458, 4568}
942:124	$0, 0, 0, 0, 0, \frac{1}{447}\sqrt{24026}e^{12}, \frac{1}{447}\sqrt{49810}e^{13}, \frac{1}{447}\sqrt{10255}e^{26},$ $\frac{1}{447}\sqrt{53033}e^{17} + \frac{1}{447}\sqrt{16115}e^{34}$	$(-\frac{82}{447}, \frac{76}{447}, \frac{43}{149}, -\frac{164}{447}, \frac{86}{149}, -\frac{2}{149}, \frac{47}{447}, \frac{70}{447}, -\frac{35}{447})$ $+ \frac{1}{149}\sqrt{12306}e^3 \otimes e_4 + \frac{1}{447}\sqrt{120423}e^5 \otimes e_9$	{12369, 139, 23789, 36789}
942:124	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{795}e^{12}, \frac{1}{126}\sqrt{1378}e^{13}, \frac{5}{126}\sqrt{106}e^{26},$ $\frac{1}{63}\sqrt{106}e^{17} + \frac{1}{42}\sqrt{530}e^{34}$	$(\frac{5}{42}, -\frac{19}{126}, -\frac{37}{252}, \frac{5}{21}, \frac{43}{84}, -\frac{2}{63}, -\frac{1}{36}, -\frac{23}{126}, \frac{23}{252})$ $+ \frac{1}{126}\sqrt{5406}e^5 \otimes e_9 + \frac{1}{126}\sqrt{6519}e^4 \otimes e_8$	{23456, 24679, 345, 479}
942:124	$0, 0, 0, 0, 0, \frac{5}{1893}\sqrt{6810}e^{12}, \frac{2}{631}\sqrt{227}e^{13}, \frac{1}{1893}\sqrt{286474}e^{26},$ $\frac{1}{1893}\sqrt{25878}e^{17} + \frac{2}{1893}\sqrt{70143}e^{34}$	$(-\frac{68}{631}, \frac{158}{1893}, \frac{113}{631}, \frac{136}{631}, \frac{70}{631}, -\frac{46}{1893}, \frac{45}{631}, \frac{112}{1893}, -\frac{23}{631})$ $+ \frac{2}{631}\sqrt{12031}e^2 \otimes e_9 + \frac{9}{631}\sqrt{454}e^3 \otimes e_8$	{145689, 14689, 23456, 2346}
942:124	$0, 0, 0, 0, 0, \frac{1}{114}\sqrt{3399}e^{12}, \frac{1}{114}\sqrt{3090}e^{13}, \frac{1}{57}\sqrt{1957}e^{26},$ $\frac{1}{114}\sqrt{3090}e^{17} + \frac{2}{57}\sqrt{618}e^{34}$	$(\frac{11}{38}, -\frac{35}{114}, -\frac{9}{76}, \frac{11}{19}, \frac{13}{76}, -\frac{1}{57}, \frac{13}{76}, -\frac{37}{114}, \frac{35}{76})$ $+ \frac{1}{38}\sqrt{2163}e^4 \otimes e_8$	{1235789, 123789, 1258, 128, 1356789, 136789, 1568, 168}
942:124	$0, 0, 0, 0, 0, \frac{13}{673}\sqrt{290}e^{12}, \frac{13}{673}\sqrt{106}e^{13}, \frac{13}{673}\sqrt{410}e^{26},$ $\frac{26}{673}\sqrt{23}e^{17} + \frac{13}{673}\sqrt{290}e^{34}$	$(-\frac{65}{673}, \frac{78}{673}, \frac{39}{673}, -\frac{130}{673}, \frac{260}{673}, \frac{13}{673}, -\frac{26}{673}, \frac{91}{673}, -\frac{91}{673})$ $+ \frac{13}{673}\sqrt{374}e^5 \otimes e_8 + \frac{13}{673}\sqrt{710}e^2 \otimes e_9 + \frac{26}{673}\sqrt{29}e^3 \otimes e_4$	{14689, 4579}
942:124	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{795}e^{12}, \frac{1}{63}\sqrt{106}e^{13}, \frac{5}{126}\sqrt{106}e^{26},$ $\frac{1}{126}\sqrt{1378}e^{17} + \frac{1}{42}\sqrt{530}e^{34}$	$(\frac{5}{42}, -\frac{19}{126}, \frac{31}{252}, \frac{5}{21}, -\frac{25}{84}, -\frac{2}{63}, \frac{61}{252}, -\frac{23}{126}, \frac{13}{36})$ $+ \frac{1}{126}\sqrt{5406}e^3 \otimes e_5 + \frac{1}{126}\sqrt{6519}e^4 \otimes e_8$	{23467, 24569, 347, 459}
942:124	$0, 0, 0, 0, 0, \frac{1}{483}\sqrt{6698}e^{12}, \frac{8}{483}\sqrt{394}e^{13}, \frac{10}{483}\sqrt{394}e^{26},$ $\frac{2}{483}\sqrt{4334}e^{17} + \frac{5}{483}\sqrt{1970}e^{34}$	$(-\frac{34}{483}, -\frac{26}{483}, \frac{37}{161}, -\frac{68}{483}, \frac{80}{161}, -\frac{20}{161}, \frac{11}{69}, -\frac{86}{483}, \frac{43}{483})$ $+ \frac{1}{483}\sqrt{72102}e^5 \otimes e_9 + \frac{3}{161}\sqrt{1182}e^3 \otimes e_8$	{12369, 139, 258, 568}
942:124	$0, 0, 0, 0, 0, \frac{4}{3315}\sqrt{11473}e^{12}, \frac{4}{3315}\sqrt{15630}e^{13}, \frac{4}{3315}\sqrt{93274}e^{26},$ $\frac{8}{3315}\sqrt{20711}e^{17} + \frac{4}{3315}\sqrt{13559}e^{34}$	$(\frac{154}{3315}, -\frac{304}{3315}, \frac{246}{1105}, \frac{308}{3315}, -\frac{346}{1105}, -\frac{10}{221}, \frac{892}{3315}, -\frac{454}{3315}, \frac{1046}{3315})$ $+ \frac{4}{3315}\sqrt{214113}e^1 \otimes e_5 + \frac{4}{3315}\sqrt{220371}e^3 \otimes e_8$	{1278, 1678, 235679, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:124	$0, 0, 0, 0, 0, \frac{2}{237}\sqrt{5307}e^{12}, \frac{2}{79}\sqrt{305}e^{13}, \frac{2}{237}\sqrt{4819}e^{26},$ $\frac{2}{237}\sqrt{1281}e^{17} + \frac{2}{237}\sqrt{5307}e^{34}$	$(-\frac{8}{79}, \frac{71}{237}, -\frac{1}{79}, -\frac{16}{79}, \frac{13}{79}, \frac{47}{237}, -\frac{9}{79}, \frac{118}{237}, -\frac{17}{79})$ $+ \frac{2}{79}\sqrt{1342}e^2 \otimes e_9$	{1234578, 123478, 145689, 14689, 23456, 2346, 4579, 479}
942:124	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{618}e^{12}, \frac{1}{114}\sqrt{3090}e^{13}, \frac{1}{57}\sqrt{1957}e^{26},$ $\frac{1}{114}\sqrt{3090}e^{17} + \frac{1}{114}\sqrt{3399}e^{34}$	$(\frac{1}{76}, \frac{14}{57}, \frac{3}{19}, \frac{1}{38}, -\frac{25}{38}, \frac{59}{228}, \frac{13}{76}, \frac{115}{228}, \frac{7}{38})$ $+ \frac{1}{38}\sqrt{2163}e^2 \otimes e_5$	{123789, 128, 1356789, 1568, 2369, 267, 359, 57}
942:124	$0, 0, 0, 0, 0, \frac{22}{741}\sqrt{141}e^{12}, \frac{22}{741}\sqrt{5}e^{13}, \frac{22}{741}\sqrt{247}e^{26},$ $\frac{22}{741}\sqrt{69}e^{17} + \frac{110}{741}\sqrt{6}e^{34}$	$(-\frac{11}{247}, \frac{11}{741}, \frac{77}{247}, -\frac{22}{247}, -\frac{77}{247}, -\frac{22}{247}, \frac{66}{741}, -\frac{11}{741}, \frac{55}{247})$ $+ \frac{22}{247}\sqrt{35}e^2 \otimes e_5 + \frac{22}{247}\sqrt{38}e^3 \otimes e_8$	{124789, 1456789, 23467, 3457}
942:124	$0, 0, 0, 0, 0, \frac{2}{4425}\sqrt{109203}e^{12}, \frac{2}{1475}\sqrt{8633}e^{13}, \frac{2}{885}\sqrt{5251}e^{26},$ $\frac{2}{4425}\sqrt{9879}e^{17} + \frac{2}{4425}\sqrt{160467}e^{34}$	$(\frac{56}{1475}, -\frac{1}{885}, -\frac{173}{1475}, \frac{112}{1475}, \frac{137}{1475}, \frac{163}{4425}, -\frac{117}{1475}, \frac{158}{4425}, -\frac{61}{1475})$ $+ \frac{16}{1475}\sqrt{267}e^4 \otimes e_8 + \frac{2}{1475}\sqrt{22606}e^2 \otimes e_9$	{1258, 128, 1356789, 136789}
942:124	$0, 0, 0, 0, 0, \frac{2}{225}\sqrt{1711}e^{12}, \frac{2}{225}\sqrt{885}e^{13}, \frac{1}{45}\sqrt{354}e^{26},$ $\frac{2}{225}\sqrt{413}e^{17} + \frac{2}{225}\sqrt{1711}e^{34}$	$(-\frac{16}{225}, \frac{1}{9}, -\frac{2}{225}, -\frac{32}{225}, \frac{31}{75}, \frac{1}{25}, -\frac{2}{25}, \frac{34}{225}, -\frac{34}{225})$ $+ \frac{1}{225}\sqrt{7906}e^5 \otimes e_8 + \frac{2}{225}\sqrt{3894}e^2 \otimes e_9$	{123478, 14689, 23456, 4579}
942:124	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{39}e^{12}, \frac{2}{93}\sqrt{195}e^{13}, \frac{2}{93}\sqrt{403}e^{26},$ $\frac{2}{93}\sqrt{195}e^{17} + \frac{2}{93}\sqrt{39}e^{34}$	$(\frac{4}{31}, -\frac{7}{93}, -\frac{1}{31}, \frac{8}{31}, -\frac{11}{31}, \frac{5}{93}, \frac{3}{31}, -\frac{2}{93}, \frac{7}{31})$ $+ \frac{2}{93}\sqrt{546}e^2 \otimes e_5 + \frac{2}{93}\sqrt{546}e^4 \otimes e_8$	{123789, 128, 1356789, 1568}
942:124	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{754}e^{12}, \frac{4}{471}\sqrt{5655}e^{13}, \frac{1}{471}\sqrt{118378}e^{26},$ $\frac{1}{157}\sqrt{754}e^{17} + \frac{4}{471}\sqrt{5655}e^{34}$	$(-\frac{6}{157}, -\frac{64}{471}, \frac{77}{157}, -\frac{12}{157}, \frac{28}{157}, -\frac{82}{471}, \frac{71}{157}, -\frac{146}{471}, \frac{65}{157})$ $+ \frac{1}{157}\sqrt{32422}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
942:124	$0, 0, 0, 0, 0, \frac{4}{787}\sqrt{4730}e^{12}, \frac{6}{787}\sqrt{2365}e^{13}, \frac{2}{787}\sqrt{30745}e^{26},$ $\frac{6}{787}\sqrt{2365}e^{17} + \frac{2}{787}\sqrt{16555}e^{34}$	$(\frac{176}{787}, -\frac{127}{787}, -\frac{72}{787}, \frac{352}{787}, -\frac{254}{787}, \frac{49}{787}, \frac{104}{787}, -\frac{78}{787}, \frac{280}{787})$ $+ \frac{10}{787}\sqrt{2795}e^4 \otimes e_8 + \frac{2}{787}\sqrt{76970}e^1 \otimes e_5$	{12389, 1278, 13689, 1678}
942:124	$0, 0, 0, 0, 0, \frac{56}{207}\sqrt{2}e^{12}, \frac{8}{207}\sqrt{21}e^{13}, \frac{8}{207}\sqrt{97}e^{26},$ $\frac{8}{69}\sqrt{2}e^{17} + \frac{8}{207}\sqrt{139}e^{34}$	$(-\frac{22}{207}, \frac{16}{69}, \frac{28}{207}, -\frac{44}{207}, -\frac{4}{207}, \frac{26}{207}, \frac{2}{69}, \frac{74}{207}, -\frac{16}{207})$ $+ \frac{32}{207}\sqrt{15}e^2 \otimes e_9 + \frac{8}{207}\sqrt{123}e^3 \otimes e_5$	{123478, 145689, 2346, 4579}
942:124	$0, 0, 0, 0, 0, \frac{1}{459}\sqrt{31570}e^{12}, \frac{28}{459}\sqrt{165}e^{13}, \frac{2}{459}\sqrt{5005}e^{26},$ $\frac{28}{459}\sqrt{165}e^{17} + \frac{2}{459}\sqrt{16555}e^{34}$	$(\frac{82}{459}, \frac{11}{459}, -\frac{4}{459}, \frac{164}{459}, -\frac{101}{153}, \frac{31}{153}, \frac{26}{153}, \frac{104}{459}, \frac{160}{459})$ $+ \frac{1}{459}\sqrt{293370}e^1 \otimes e_5$	{123489, 12478, 134689, 14678, 2345679, 2456, 34579, 45}
942:124	$0, 0, 0, 0, 0, \frac{8}{57}\sqrt{2}e^{12}, \frac{8}{57}\sqrt{29}e^{13}, \frac{8}{57}\sqrt{7}e^{26},$ $\frac{8}{57}\sqrt{2}e^{17} + \frac{8}{57}\sqrt{29}e^{34}$	$(-\frac{2}{57}, \frac{8}{57}, \frac{28}{57}, -\frac{4}{57}, -\frac{12}{19}, \frac{2}{19}, \frac{26}{57}, \frac{14}{57}, \frac{8}{19})$ $+ \frac{8}{57}\sqrt{93}e^3 \otimes e_5$	{12346, 1245679, 134, 14579, 23478, 24589, 34678, 45689}
942:124	$0, 0, 0, 0, 0, \frac{8}{3951}\sqrt{435}e^{12}, \frac{16}{3951}\sqrt{11455}e^{13}, \frac{232}{3951}\sqrt{31}e^{26},$ $\frac{8}{3951}\sqrt{33698}e^{17} + \frac{16}{1317}\sqrt{2494}e^{34}$	$(-\frac{10}{1317}, -\frac{464}{3951}, \frac{868}{3951}, -\frac{20}{1317}, \frac{140}{1317}, -\frac{494}{3951}, \frac{838}{3951}, -\frac{958}{3951}, \frac{808}{3951})$ $+ \frac{8}{1317}\sqrt{7337}e^1 \otimes e_8 + \frac{8}{3951}\sqrt{36366}e^3 \otimes e_4$	{124567, 12467, 1457, 147, 2458, 248, 4568, 468}
942:124	$0, 0, 0, 0, 0, \frac{8}{3951}\sqrt{435}e^{12}, \frac{16}{3951}\sqrt{11455}e^{13}, \frac{232}{3951}\sqrt{31}e^{26},$ $\frac{8}{3951}\sqrt{33698}e^{17} + \frac{16}{1317}\sqrt{2494}e^{34}$	$(-\frac{10}{1317}, -\frac{464}{3951}, \frac{868}{3951}, -\frac{20}{1317}, \frac{140}{1317}, -\frac{494}{3951}, \frac{838}{3951}, -\frac{958}{3951}, \frac{808}{3951})$ $- \frac{8}{1317}\sqrt{7337}e^1 \otimes e_8 + \frac{8}{3951}\sqrt{36366}e^3 \otimes e_4$	{124567, 12467, 1457, 147, 2458, 248, 4568, 468}
942:124	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{65}e^{12}, \frac{2}{51}\sqrt{65}e^{13}, \frac{1}{51}\sqrt{2210}e^{26},$ $\frac{2}{51}\sqrt{65}e^{17} + \frac{2}{51}\sqrt{65}e^{34}$	$(\frac{4}{51}, -\frac{3}{17}, \frac{2}{17}, \frac{8}{51}, 1, -\frac{5}{51}, \frac{10}{51}, -\frac{14}{51}, \frac{14}{51})$ $+ \frac{1}{51}\sqrt{5330}e^5 \otimes e_8$	{12389, 1278, 13689, 1678, 235679, 256, 3579, 5}
942:124	$0, 0, 0, 0, 0, \frac{24}{71}\sqrt{2}e^{12}, \frac{16}{71}e^{13}, \frac{8}{71}\sqrt{19}e^{26},$ $\frac{8}{71}\sqrt{7}e^{17} + \frac{24}{71}\sqrt{2}e^{34}$	$(-\frac{11}{71}, \frac{20}{71}, \frac{10}{71}, -\frac{22}{71}, \frac{10}{71}, \frac{9}{71}, -\frac{1}{71}, \frac{29}{71}, -\frac{12}{71})$ $+ \frac{8}{71}\sqrt{14}e^3 \otimes e_4 + \frac{8}{71}\sqrt{47}e^2 \otimes e_9$	{145689, 14689, 4579, 479}
942:124	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{4470}e^{12}, \frac{4}{441}\sqrt{3874}e^{13}, \frac{8}{441}\sqrt{745}e^{26},$ $\frac{2}{441}\sqrt{5513}e^{17} + \frac{2}{441}\sqrt{4470}e^{34}$	$(-\frac{20}{147}, \frac{1}{441}, \frac{178}{441}, -\frac{40}{147}, \frac{80}{147}, -\frac{59}{441}, \frac{118}{441}, -\frac{58}{441}, \frac{58}{441})$ $+ \frac{2}{147}\sqrt{3129}e^5 \otimes e_8 + \frac{2}{441}\sqrt{29949}e^3 \otimes e_4$	{124567, 1457, 248, 468}
942:124	$0, 0, 0, 0, 0, \frac{54}{923}e^{12}, \frac{18}{923}\sqrt{290}e^{13}, \frac{9}{923}\sqrt{710}e^{26},$ $\frac{6323}{923}\sqrt{22}e^{17} + \frac{9}{923}\sqrt{410}e^{34}$	$(-\frac{18}{923}, -\frac{81}{923}, \frac{126}{923}, -\frac{36}{923}, \frac{252}{923}, -\frac{99}{923}, \frac{108}{923}, -\frac{180}{923}, \frac{90}{923})$ $+ \frac{18}{923}\sqrt{226}e^3 \otimes e_4 - \frac{18}{923}\sqrt{445}e^1 \otimes e_8 + \frac{9}{923}\sqrt{658}e^5 \otimes e_9$	{124567, 1457, 2458, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:124	$0, 0, 0, 0, 0, \frac{54}{923}e^{12}, \frac{18}{923}\sqrt{290}e^{13}, \frac{9}{923}\sqrt{710}e^{26},$ $\frac{63}{923}\sqrt{22}e^{17} + \frac{9}{923}\sqrt{410}e^{34}$	$(-\frac{18}{923}, -\frac{81}{923}, \frac{126}{923}, -\frac{36}{923}, \frac{252}{923}, -\frac{99}{923}, \frac{108}{923}, -\frac{180}{923}, \frac{90}{923})$ $+ \frac{18}{923}\sqrt{22}e^3 \otimes e_4 + \frac{18}{923}\sqrt{445}e^1 \otimes e_8 + \frac{9}{923}\sqrt{658}e^5 \otimes e_9$	{124567, 1457, 2458, 4568}
942:124	$0, 0, 0, 0, 0, \frac{8}{441}\sqrt{1082}e^{12}, \frac{1}{441}\sqrt{61674}e^{13}, \frac{2}{441}\sqrt{7033}e^{26},$ $\frac{1}{441}\sqrt{61674}e^{17} + \frac{1}{441}\sqrt{200170}e^{34}$	$(\frac{128}{441}, -\frac{4}{147}, -\frac{50}{441}, \frac{256}{147}, -\frac{95}{147}, \frac{116}{441}, \frac{26}{147}, \frac{104}{441}, \frac{206}{441})$ $+ \frac{11}{441}\sqrt{3246}e^4 \otimes e_5$	{1235789, 1258, 1356789, 1568, 23569, 2567, 359, 57}
942:125	$0, 0, 0, 0, 0, \frac{4}{343}\sqrt{107}e^{12}, \frac{2}{343}\sqrt{4387}e^{13}, \frac{1}{343}\sqrt{18190}e^{26},$ $\frac{1}{343}\sqrt{3638}e^{24} + \frac{4}{343}\sqrt{1605}e^{37}$	$(-\frac{33}{343}, -\frac{19}{343}, \frac{36}{343}, \frac{58}{343}, \frac{146}{343}, -\frac{52}{343}, \frac{3}{343}, -\frac{71}{343}, \frac{39}{343})$ $+ \frac{1}{343}\sqrt{22470}e^5 \otimes e_9 + \frac{1}{343}\sqrt{42158}e^3 \otimes e_8$	{123469, 139, 258, 4568}
942:125	$0, 0, 0, 0, 0, \frac{1}{1421}\sqrt{483062}e^{12}, \frac{3}{1421}\sqrt{17630}e^{13}, \frac{1}{1421}\sqrt{1886410}e^{26},$ $\frac{4}{1421}\sqrt{40549}e^{24} + \frac{4}{1421}\sqrt{33497}e^{37}$	$(\frac{90}{1421}, -\frac{216}{1421}, \frac{75}{1421}, \frac{456}{1421}, 1, -\frac{18}{203}, \frac{165}{1421}, -\frac{342}{1421}, \frac{240}{1421})$ $+ \frac{1}{1421}\sqrt{4051374}e^5 \otimes e_8$	{123489, 124789, 13689, 16789, 23567, 256, 3457, 45}
942:125	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{411}e^{12}, \frac{2}{221}\sqrt{2877}e^{13}, \frac{4}{221}\sqrt{685}e^{26},$ $\frac{8}{221}\sqrt{822}e^{24} + \frac{4}{221}\sqrt{685}e^{37}$	$(\frac{42}{221}, -\frac{1}{17}, \frac{35}{221}, \frac{125}{221}, -\frac{149}{221}, \frac{29}{221}, \frac{77}{221}, \frac{16}{221}, \frac{112}{221})$ $+ \frac{2}{221}\sqrt{25345}e^4 \otimes e_5$	{123468, 124678, 1358, 1578, 23579, 259, 34679, 469}
942:125	$0, 0, 0, 0, 0, \frac{4}{33}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{10}e^{13}, \frac{1}{11}\sqrt{30}e^{26},$ $\frac{1}{33}\sqrt{210}e^{24} + \frac{4}{33}\sqrt{15}e^{37}$	$(-\frac{7}{33}, \frac{10}{33}, \frac{2}{11}, -\frac{5}{33}, -\frac{3}{11}, \frac{1}{11}, -\frac{1}{33}, \frac{13}{33}, \frac{5}{33})$ $+ \frac{1}{33}\sqrt{390}e^3 \otimes e_5 + \frac{4}{33}\sqrt{30}e^2 \otimes e_4$	{2367, 256, 347, 45}
942:125	$0, 0, 0, 0, 0, \frac{20}{703}\sqrt{902}e^{12}, \frac{60}{703}\sqrt{22}e^{13}, \frac{40}{703}\sqrt{209}e^{26},$ $\frac{110}{703}\sqrt{19}e^{24} + \frac{10}{703}\sqrt{1177}e^{37}$	$(-\frac{144}{703}, \frac{280}{703}, \frac{77}{703}, -\frac{270}{703}, \frac{112}{703}, \frac{136}{703}, -\frac{67}{703}, \frac{416}{703}, \frac{10}{703})$ $+ \frac{10}{703}\sqrt{6501}e^2 \otimes e_4$	{123578, 12378, 1258, 128, 1345678, 134678, 14568, 1468}
942:125	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{69}e^{12}, \frac{1}{21}\sqrt{230}e^{13}, \frac{2}{21}\sqrt{23}e^{26},$ $\frac{2}{21}\sqrt{23}e^{24} + \frac{1}{21}\sqrt{23}e^{37}$	$(\frac{10}{21}, -\frac{2}{21}, -\frac{1}{7}, \frac{2}{7}, -\frac{13}{21}, \frac{8}{21}, \frac{1}{3}, \frac{2}{7}, \frac{4}{21})$ $+ \frac{1}{21}\sqrt{782}e^1 \otimes e_5$	{123489, 124789, 13689, 16789, 23567, 256, 3457, 45}
942:125	$0, 0, 0, 0, 0, \frac{324}{5501}\sqrt{13}e^{12}, \frac{54}{5501}\sqrt{355}e^{13}, \frac{27}{5501}\sqrt{4030}e^{26},$ $\frac{27}{5501}\sqrt{2278}e^{24} + \frac{1080}{5501}\sqrt{2}e^{37}$	$(-\frac{1107}{5501}, \frac{567}{5501}, \frac{756}{5501}, -\frac{162}{5501}, \frac{1134}{5501}, -\frac{540}{5501}, \frac{351}{5501}, \frac{27}{5501}, \frac{405}{5501})$ $+ \frac{108}{5501}\sqrt{230}e^2 \otimes e_4 + \frac{27}{5501}\sqrt{1190}e^5 \otimes e_9 + \frac{513}{5501}\sqrt{14}e^3 \otimes e_8$	{23567, 3457}
942:125	$0, 0, 0, 0, 0, \frac{4}{1409}\sqrt{17281}e^{12}, \frac{2}{1409}\sqrt{89547}e^{13}, \frac{1}{1409}\sqrt{1052570}e^{26},$ $\frac{2}{1409}\sqrt{317342}e^{24} + \frac{10}{1409}\sqrt{1571}e^{37}$	$(\frac{228}{1409}, -\frac{397}{1409}, \frac{190}{1409}, \frac{1005}{1409}, \frac{254}{1409}, -\frac{169}{1409}, \frac{418}{1409}, -\frac{566}{1409}, \frac{608}{1409})$ $+ \frac{1}{1409}\sqrt{3629010}e^4 \otimes e_8$	{123456, 12346, 124567, 12467, 235789, 23789, 2589, 289}
942:125	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{5957}e^{12}, \frac{1}{659}\sqrt{62790}e^{13}, \frac{2}{659}\sqrt{15295}e^{26},$ $\frac{42}{659}\sqrt{23}e^{24} + \frac{2}{659}\sqrt{15295}e^{37}$	$(\frac{22}{659}, -\frac{62}{659}, \frac{59}{659}, \frac{202}{659}, -\frac{139}{659}, -\frac{40}{659}, \frac{81}{659}, -\frac{102}{659}, \frac{140}{659})$ $+ \frac{1}{659}\sqrt{69230}e^1 \otimes e_5 + \frac{92}{659}\sqrt{14}e^3 \otimes e_8$	{124789, 16789, 23567, 3457}
942:125	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{13}e^{12}, \frac{8}{49}\sqrt{13}e^{13}, \frac{4}{49}\sqrt{65}e^{26},$ $\frac{2}{49}\sqrt{143}e^{24} + \frac{4}{49}\sqrt{65}e^{37}$	$(-\frac{9}{49}, -\frac{2}{49}, \frac{13}{49}, \frac{19}{49}, \frac{8}{49}, -\frac{11}{49}, \frac{4}{49}, -\frac{13}{49}, \frac{17}{49})$ $+ \frac{2}{49}\sqrt{533}e^3 \otimes e_8$	{1245789, 124789, 156789, 16789, 23567, 2367, 3457, 347}
942:125	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{138}e^{12}, \frac{4}{135}\sqrt{23}e^{13}, \frac{2}{135}\sqrt{874}e^{26},$ $\frac{2}{135}\sqrt{713}e^{24} + \frac{2}{135}\sqrt{345}e^{37}$	$(\frac{8}{135}, \frac{22}{135}, -\frac{1}{27}, -\frac{8}{45}, -\frac{38}{135}, \frac{2}{9}, \frac{1}{45}, \frac{52}{135}, -\frac{2}{135})$ $+ \frac{46}{135}\sqrt{3}e^2 \otimes e_4 + \frac{4}{135}\sqrt{299}e^1 \otimes e_5$	{23567, 256, 3457, 45}
942:125	$0, 0, 0, 0, 0, \frac{20}{199}\sqrt{7}e^{12}, \frac{2}{199}\sqrt{994}e^{13}, \frac{2}{199}\sqrt{2030}e^{26},$ $\frac{199}{199}\sqrt{518}e^{24} + \frac{20}{199}\sqrt{14}e^{37}$	$(-\frac{36}{199}, \frac{13}{199}, \frac{46}{199}, \frac{43}{199}, -\frac{43}{199}, -\frac{23}{199}, \frac{10}{199}, -\frac{10}{199}, \frac{56}{199})$ $+ \frac{4}{199}\sqrt{749}e^3 \otimes e_8 + \frac{6}{199}\sqrt{210}e^2 \otimes e_5$	{124789, 156789, 2367, 3457}
942:125	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{4565}e^{12}, \frac{1}{181}\sqrt{2490}e^{13}, \frac{1}{181}\sqrt{17430}e^{26},$ $\frac{1}{181}\sqrt{7802}e^{24} + \frac{2}{181}\sqrt{249}e^{37}$	$(-\frac{15}{181}, \frac{50}{181}, \frac{37}{181}, \frac{9}{181}, -\frac{116}{181}, \frac{35}{181}, \frac{22}{181}, \frac{85}{181}, \frac{59}{181})$ $+ \frac{3}{181}\sqrt{5478}e^2 \otimes e_5$	{123478, 1248, 135678, 1568, 2369, 2679, 3459, 4579}
942:125	$0, 0, 0, 0, 0, \frac{4}{2665}\sqrt{131718}e^{12}, \frac{4}{2665}\sqrt{22710}e^{13}, \frac{8}{2665}\sqrt{31037}e^{26},$ $\frac{2}{2665}\sqrt{150643}e^{24} + \frac{6}{2665}\sqrt{40121}e^{37}$	$(-\frac{48}{533}, \frac{616}{2665}, -\frac{21}{2665}, -\frac{898}{2665}, \frac{1232}{2665}, \frac{376}{2665}, -\frac{261}{2665}, \frac{992}{2665}, -\frac{282}{2665})$ $+ \frac{16}{2665}\sqrt{10598}e^5 \otimes e_9 + \frac{2}{2665}\sqrt{1084781}e^2 \otimes e_4$	{123578, 1258, 1345678, 14568}
942:125	$0, 0, 0, 0, 0, \frac{4}{3559}\sqrt{51523}e^{12}, \frac{8}{3559}\sqrt{7705}e^{13}, \frac{4}{3559}\sqrt{101505}e^{26},$ $\frac{4}{3559}\sqrt{66062}e^{24} + \frac{8}{3559}\sqrt{70015}e^{37}$	$(-\frac{858}{3559}, \frac{483}{3559}, \frac{644}{3559}, -\frac{53}{3559}, \frac{371}{3559}, -\frac{375}{3559}, -\frac{214}{3559}, \frac{108}{3559}, \frac{430}{3559})$ $+ \frac{4}{3559}\sqrt{119126}e^3 \otimes e_8 + \frac{4}{3559}\sqrt{94470}e^2 \otimes e_4$	{23567, 2367, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:125	$0, 0, 0, 0, 0, \frac{2}{4577}\sqrt{1094862e^{12}}, \frac{4}{4577}\sqrt{64005e^{13}}, \frac{2}{4577}\sqrt{1438230e^{26}},$ $\frac{2}{4577}\sqrt{868209e^{24}} + \frac{2}{199}\sqrt{753e^{37}}$	$(-\frac{680}{4577}, \frac{658}{4577}, \frac{245}{4577}, -\frac{848}{4577}, \frac{2142}{4577}, -\frac{22}{4577}, -\frac{435}{4577}, \frac{636}{4577}, -\frac{190}{4577})$ $+ \frac{2}{4577}\sqrt{1833555e^2} \otimes e_4 + \frac{4}{4577}\sqrt{321531e^5} \otimes e_8$	{12378, 128, 134678, 1468}
942:125	$0, 0, 0, 0, 0, \frac{4}{289}\sqrt{271e^{12}}, \frac{3}{289}\sqrt{5962e^{13}}, \frac{5}{289}\sqrt{542e^{26}},$ $\frac{2}{289}\sqrt{12466e^{24}} + \frac{4}{289}\sqrt{3523e^{37}}$	$(-\frac{39}{289}, \frac{58}{289}, \frac{86}{289}, \frac{75}{289}, -\frac{185}{289}, \frac{19}{289}, \frac{47}{289}, \frac{77}{289}, \frac{133}{289})$ $+ \frac{1}{289}\sqrt{128454e^3} \otimes e_5$	{123469, 1245679, 139, 1579, 2378, 258, 34678, 4568}
942:125	$0, 0, 0, 0, 0, \frac{6}{1157}\sqrt{3289e^{12}}, \frac{3}{1157}\sqrt{782e^{13}}, \frac{9}{1157}\sqrt{3082e^{26}},$ $\frac{3}{1157}\sqrt{23230e^{24}} + \frac{18}{1157}\sqrt{115e^{37}}$	$(-\frac{17}{1157}, -\frac{24}{1157}, \frac{171}{1157}, \frac{349}{1157}, -\frac{438}{1157}, -\frac{41}{1157}, \frac{154}{1157}, -\frac{5}{89}, \frac{25}{89})$ $+ \frac{132}{1157}\sqrt{23e^4} \otimes e_8 + \frac{3}{1157}\sqrt{51106e^2} \otimes e_5$	{123789, 1289, 2346, 2467}
942:125	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{341e^{12}}, \frac{4}{123}\sqrt{62e^{13}}, \frac{2}{123}\sqrt{310e^{26}},$ $\frac{2}{123}\sqrt{1178e^{24}} + \frac{2}{123}\sqrt{310e^{37}}$	$(\frac{16}{123}, -\frac{8}{41}, -\frac{5}{123}, \frac{10}{41}, \frac{68}{123}, -\frac{8}{123}, \frac{11}{123}, -\frac{32}{123}, \frac{2}{41})$ $+ \frac{2}{123}\sqrt{1705e^4} \otimes e_8 + \frac{2}{123}\sqrt{1705e^5} \otimes e_9$	{1349, 1479, 35678, 568}
942:125	$0, 0, 0, 0, 0, \frac{4}{1409}\sqrt{17281e^{12}}, \frac{2}{1409}\sqrt{89547e^{13}}, \frac{10}{1409}\sqrt{1571e^{26}},$ $\frac{2}{1409}\sqrt{317342e^{24}} + \frac{1}{1409}\sqrt{1052570e^{37}}$	$(\frac{228}{1409}, -\frac{12}{1409}, -\frac{195}{1409}, -\frac{150}{1409}, 1, \frac{216}{1409}, \frac{33}{1409}, \frac{204}{1409}, -\frac{162}{1409})$ $+ \frac{1}{1409}\sqrt{3629010e^5} \otimes e_9$	{123689, 126789, 13489, 14789, 23457, 245, 3567, 56}
942:125	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{3e^{12}}, \frac{4}{51}\sqrt{42e^{13}}, \frac{4}{17}\sqrt{5e^{26}},$ $\frac{8}{51}\sqrt{3e^{24}} + \frac{4}{17}\sqrt{5e^{37}}$	$(-\frac{2}{17}, -\frac{1}{17}, \frac{4}{17}, \frac{7}{17}, -\frac{1}{17}, -\frac{3}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{6}{17})$ $+ \frac{4}{51}\sqrt{102e^3} \otimes e_8 + \frac{4}{51}\sqrt{30e^4} \otimes e_5$	{123469, 1359, 258, 468}
942:125	$0, 0, 0, 0, 0, \frac{14}{3645}\sqrt{8763e^{12}}, \frac{14}{3645}\sqrt{12857e^{13}}, \frac{28}{3645}\sqrt{3243e^{26}},$ $\frac{28}{3645}\sqrt{2047e^{24}} + \frac{14}{3645}\sqrt{805e^{37}}$	$(\frac{1118}{3645}, -\frac{56}{243}, -\frac{133}{3645}, \frac{188}{405}, -\frac{1136}{3645}, \frac{278}{3645}, \frac{197}{729}, -\frac{562}{3645}, \frac{284}{1215})$ $+ \frac{14}{3645}\sqrt{36731e^1} \otimes e_5 + \frac{322}{3645}\sqrt{69e^4} \otimes e_8$	{12389, 12789, 234567, 2456}
942:125	$0, 0, 0, 0, 0, \frac{2}{1143}\sqrt{22791e^{12}}, \frac{2}{1143}\sqrt{81213e^{13}}, \frac{2}{381}\sqrt{5885e^{26}},$ $\frac{2}{1143}\sqrt{33063e^{24}} + \frac{2}{381}\sqrt{6955e^{37}}$	$(-\frac{13}{381}, -\frac{6}{127}, \frac{80}{381}, \frac{55}{127}, -\frac{134}{381}, -\frac{31}{381}, \frac{67}{381}, -\frac{49}{381}, \frac{49}{127})$ $+ \frac{2}{1143}\sqrt{146055e^4} \otimes e_8 + \frac{2}{1143}\sqrt{174945e^3} \otimes e_5$	{1349, 14579, 3678, 568}
942:126	$0, 0, 0, 0, 0, \frac{1}{389}\sqrt{95410e^{12}}, \frac{5}{389}\sqrt{1974e^{13}}, \frac{1}{389}\sqrt{95410e^{16}},$ $\frac{1}{389}\sqrt{19082e^{17}} + \frac{2}{389}\sqrt{1974e^{45}}$	$(\frac{145}{389}, \frac{80}{389}, \frac{184}{389}, \frac{53}{389}, \frac{53}{389}, \frac{65}{389}, -\frac{39}{389}, \frac{210}{389}, \frac{106}{389})$ $+ \frac{18}{389}\sqrt{658e^1} \otimes e_3$	{12489, 1469, 234568, 2368, 3, 345}
942:126	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{28006e^{12}}, \frac{19}{287}\sqrt{66e^{13}}, \frac{2}{287}\sqrt{15466e^{16}},$ $\frac{10}{287}\sqrt{418e^{17}} + \frac{1}{287}\sqrt{53922e^{45}}$	$(-\frac{2}{41}, -\frac{23}{287}, \frac{101}{287}, \frac{158}{287}, -\frac{85}{287}, -\frac{37}{287}, \frac{87}{287}, -\frac{51}{287}, \frac{73}{287})$ $+ \frac{9}{287}\sqrt{1254e^4} \otimes e_8$	{1235789, 128, 134679, 1456, 235689, 2678, 349, 457}
942:126	$0, 0, 0, 0, 0, \frac{6}{263}\sqrt{138e^{12}}, \frac{6}{263}\sqrt{303e^{13}}, \frac{6}{263}\sqrt{137e^{16}},$ $\frac{6}{263}\sqrt{194e^{17}} + \frac{6}{263}\sqrt{37e^{45}}$	$(\frac{12}{263}, -\frac{60}{263}, \frac{36}{263}, -\frac{6}{263}, \frac{66}{263}, -\frac{48}{263}, \frac{48}{263}, -\frac{36}{263}, \frac{60}{263})$ $+ \frac{12}{263}\sqrt{91e^3} \otimes e_8 + \frac{6}{263}\sqrt{461e^1} \otimes e_2 + \frac{72}{263}e^5 \otimes e_4$	{1478, 1578}
942:126	$0, 0, 0, 0, 0, \frac{6}{227}\sqrt{138e^{12}}, \frac{6}{227}\sqrt{303e^{13}}, \frac{6}{227}\sqrt{137e^{16}},$ $\frac{6}{227}\sqrt{194e^{17}} + \frac{6}{227}\sqrt{37e^{45}}$	$(\frac{12}{227}, -\frac{60}{227}, \frac{36}{227}, \frac{30}{227}, \frac{30}{227}, -\frac{48}{227}, \frac{48}{227}, -\frac{36}{227}, \frac{60}{227})$ $+ \frac{12}{227}\sqrt{91e^3} \otimes e_8 + \frac{6}{227}\sqrt{461e^1} \otimes e_2$	{1478, 234579, 2379}
942:126	$0, 0, 0, 0, 0, \frac{22}{3441}\sqrt{1070e^{12}}, \frac{176}{3441}\sqrt{10e^{13}}, \frac{22}{3441}\sqrt{1118e^{16}},$ $\frac{88}{3441}\sqrt{15e^{17}} + \frac{22}{3441}\sqrt{862e^{45}}$	$(\frac{55}{3441}, \frac{55}{1147}, -\frac{187}{3441}, -\frac{198}{1147}, \frac{517}{3441}, \frac{220}{3441}, -\frac{44}{1147}, \frac{275}{3441}, -\frac{77}{3441})$ $+ \frac{22}{3441}\sqrt{1095e^1} \otimes e_3 + \frac{22}{3441}\sqrt{1111e^5} \otimes e_8 + \frac{22}{3441}\sqrt{967e^2} \otimes e_9$	{128, 359}
942:126	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{1510e^{12}}, \frac{2}{189}\sqrt{906e^{13}}, \frac{2}{189}\sqrt{1510e^{16}},$ $\frac{2}{189}\sqrt{302e^{17}} + \frac{4}{189}\sqrt{453e^{45}}$	$(\frac{10}{189}, \frac{4}{27}, \frac{32}{189}, \frac{59}{63}, -\frac{125}{189}, \frac{38}{189}, \frac{2}{9}, \frac{16}{63}, \frac{52}{189})$ $+ \frac{302}{189}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 2346789, 2356789, 3479, 3579}
942:126	$0, 0, 0, 0, 0, \frac{2}{303}\sqrt{3731e^{12}}, \frac{1}{303}\sqrt{8554e^{13}}, \frac{91}{303}\sqrt{2e^{16}},$ $\frac{1}{101}\sqrt{910e^{17}} + \frac{2}{303}\sqrt{5278e^{45}}$	$(-\frac{49}{303}, \frac{24}{101}, \frac{79}{303}, \frac{65}{303}, -\frac{28}{101}, \frac{23}{303}, \frac{10}{303}, -\frac{26}{303}, -\frac{19}{303})$ $+ \frac{1}{303}\sqrt{27118e^4} \otimes e_8 + \frac{2}{303}\sqrt{5551e^2} \otimes e_9$	{128, 134679, 2678, 349}
942:126	$0, 0, 0, 0, 0, \frac{2}{201}\sqrt{1770e^{12}}, \frac{2}{67}\sqrt{354e^{13}}, \frac{2}{201}\sqrt{590e^{16}},$ $\frac{2}{201}\sqrt{3422e^{17}} + \frac{4}{201}\sqrt{177e^{45}}$	$(\frac{50}{201}, -\frac{68}{201}, -\frac{32}{201}, \frac{31}{67}, -\frac{25}{201}, -\frac{6}{67}, \frac{6}{67}, \frac{32}{201}, \frac{68}{201})$ $+ \frac{118}{201}e^4 \otimes e_5 + \frac{4}{201}\sqrt{1770e^1} \otimes e_2$	{1478, 1578, 24, 25}
942:126	$0, 0, 0, 0, 0, \frac{4}{3477}\sqrt{204017e^{12}}, \frac{2}{3477}\sqrt{150558e^{13}}, \frac{8}{3477}\sqrt{6546e^{16}},$ $\frac{4}{3477}\sqrt{76370e^{17}} + \frac{2}{1159}\sqrt{85098e^{45}}$	$(-\frac{556}{3477}, \frac{546}{1159}, \frac{568}{3477}, \frac{273}{1159}, -\frac{1363}{3477}, \frac{1082}{3477}, \frac{4}{1159}, \frac{526}{3477}, -\frac{544}{3477})$ $+ \frac{2182}{3477}e^4 \otimes e_5 + \frac{4}{3477}\sqrt{533499e^2} \otimes e_9$	{1469, 1569, 479, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:126	$0, 0, 0, 0, 0, \frac{2}{1107}\sqrt{95410}e^{12}, \frac{10}{1107}\sqrt{1974}e^{13}, \frac{2}{1107}\sqrt{95410}e^{16},$ $\frac{2}{1107}\sqrt{19082}e^{17} + \frac{4}{1107}\sqrt{1974}e^{45}$	$(\frac{290}{1107}, -\frac{160}{1107}, -\frac{368}{1107}, \frac{145}{369}, -\frac{223}{1107}, \frac{130}{1107}, -\frac{26}{369}, \frac{140}{369}, \frac{212}{1107})$ $+ \frac{4}{123}\sqrt{658}e^1 \otimes e_3 + \frac{658}{1107}e^4 \otimes e_5$	{12489, 12589, 1469, 1569}
942:126	$0, 0, 0, 0, 0, \frac{1}{1525}\sqrt{349438}e^{12}, \frac{1}{1525}\sqrt{256962}e^{13}, \frac{8}{1525}\sqrt{8338}e^{16},$ $\frac{4}{1525}\sqrt{11749}e^{17} + \frac{1}{305}\sqrt{11370}e^{45}$	$(\frac{218}{1525}, -\frac{313}{1525}, -\frac{161}{1525}, \frac{502}{1525}, -\frac{227}{1525}, -\frac{19}{305}, \frac{57}{1525}, \frac{123}{1525}, \frac{11}{61})$ $+ \frac{27}{1525}\sqrt{758}e^4 \otimes e_8 + \frac{36}{1525}\sqrt{379}e^1 \otimes e_3$	{128, 1456, 235689, 349}
942:126	$0, 0, 0, 0, 0, \frac{1100}{4047}\sqrt{2}e^{12}, \frac{88}{1349}\sqrt{15}e^{13}, \frac{308}{4047}\sqrt{15}e^{16},$ $\frac{44}{4047}\sqrt{353}e^{17} + \frac{44}{4047}\sqrt{519}e^{45}$	$(\frac{220}{4047}, \frac{220}{1349}, -\frac{748}{4047}, -\frac{638}{1349}, \frac{110}{4047}, \frac{880}{1349}, -\frac{176}{1349}, \frac{1100}{4047}, -\frac{308}{4047})$ $+ \frac{44}{4047}\sqrt{1545}e^2 \otimes e_9 + \frac{44}{4047}\sqrt{1653}e^1 \otimes e_3 + \frac{968}{4047}e^5 \otimes e_4$	{1469, 1569}
942:126	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1770}e^{12}, \frac{3}{71}\sqrt{354}e^{13}, \frac{1}{71}\sqrt{590}e^{16},$ $\frac{1}{71}\sqrt{3422}e^{17} + \frac{2}{71}\sqrt{177}e^{45}$	$(\frac{25}{71}, -\frac{34}{71}, -\frac{16}{71}, \frac{17}{71}, \frac{17}{71}, -\frac{9}{71}, \frac{9}{71}, \frac{16}{71}, \frac{34}{71})$ $+ \frac{2}{71}\sqrt{1770}e^1 \otimes e_2$	{134589, 1389, 1478, 234579, 2379, 24}
942:126	$0, 0, 0, 0, 0, \frac{14}{887}\sqrt{462}e^{12}, \frac{42}{887}\sqrt{22}e^{13}, \frac{14}{887}\sqrt{374}e^{16},$ $\frac{14}{887}\sqrt{110}e^{17} + \frac{56}{887}\sqrt{33}e^{45}$	$(-\frac{196}{887}, \frac{308}{887}, \frac{308}{887}, -\frac{238}{887}, \frac{154}{887}, \frac{112}{887}, \frac{112}{887}, -\frac{84}{887}, -\frac{84}{887})$ $- \frac{14}{887}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{887}\sqrt{1334}e^2 \otimes e_9 + \frac{392}{887}e^5 \otimes e_4$	{13469, 13569, 3479, 3579}
942:126	$0, 0, 0, 0, 0, \frac{14}{887}\sqrt{462}e^{12}, \frac{42}{887}\sqrt{22}e^{13}, \frac{14}{887}\sqrt{374}e^{16},$ $\frac{14}{887}\sqrt{110}e^{17} + \frac{56}{887}\sqrt{33}e^{45}$	$(-\frac{196}{887}, \frac{308}{887}, \frac{308}{887}, -\frac{238}{887}, \frac{154}{887}, \frac{112}{887}, \frac{112}{887}, -\frac{84}{887}, -\frac{84}{887})$ $+ \frac{14}{887}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{887}\sqrt{1334}e^2 \otimes e_9 + \frac{392}{887}e^5 \otimes e_4$	{13469, 13569, 3479, 3579}
942:126	$0, 0, 0, 0, 0, \frac{1100}{3563}\sqrt{2}e^{12}, \frac{264}{3563}\sqrt{15}e^{13}, \frac{44}{509}\sqrt{15}e^{16},$ $\frac{44}{3563}\sqrt{353}e^{17} + \frac{44}{3563}\sqrt{519}e^{45}$	$(\frac{220}{3563}, \frac{660}{3563}, -\frac{748}{3563}, -\frac{22}{509}, -\frac{22}{509}, \frac{880}{3563}, -\frac{528}{3563}, \frac{1100}{3563}, -\frac{44}{509})$ $+ \frac{44}{3563}\sqrt{1545}e^2 \otimes e_9 + \frac{44}{3563}\sqrt{1653}e^1 \otimes e_3$	{1469, 234568, 2368}
942:126	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{204017}e^{12}, \frac{1}{1193}\sqrt{150558}e^{13}, \frac{4}{1193}\sqrt{6546}e^{16},$ $\frac{2}{1193}\sqrt{76370}e^{17} + \frac{3}{1193}\sqrt{85098}e^{45}$	$(-\frac{278}{1193}, \frac{819}{1193}, \frac{284}{1193}, -\frac{136}{1193}, -\frac{136}{1193}, \frac{541}{1193}, \frac{6}{1193}, \frac{263}{1193}, -\frac{272}{1193})$ $+ \frac{2}{1193}\sqrt{533499}e^2 \otimes e_9$	{1234578, 12378, 1469, 234568, 2368, 479}
942:126	$0, 0, 0, 0, 0, \frac{4}{3645}\sqrt{1307}e^{12}, \frac{2}{3645}\sqrt{744990}e^{13}, \frac{4}{3645}\sqrt{206506}e^{16},$ $\frac{16}{3645}\sqrt{2614}e^{17} + \frac{2}{3645}\sqrt{243102}e^{45}$	$(-\frac{128}{729}, \frac{434}{3645}, \frac{1768}{3645}, \frac{517}{1215}, -\frac{1063}{3645}, -\frac{206}{3645}, \frac{376}{1215}, -\frac{94}{405}, \frac{488}{3645})$ $+ \frac{2614}{3645}e^4 \otimes e_5 + \frac{4}{1215}\sqrt{69271}e^3 \otimes e_8$	{14789, 15789, 4689, 5689}
942:126	$0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{1307}e^{12}, \frac{1}{1169}\sqrt{744990}e^{13}, \frac{2}{1169}\sqrt{206506}e^{16},$ $\frac{8}{1169}\sqrt{2614}e^{17} + \frac{1}{1169}\sqrt{243102}e^{45}$	$(-\frac{320}{1169}, \frac{31}{167}, \frac{884}{1169}, \frac{122}{1169}, \frac{122}{1169}, -\frac{103}{1169}, \frac{564}{1169}, -\frac{423}{1169}, \frac{244}{1169})$ $+ \frac{6}{1169}\sqrt{69271}e^3 \otimes e_8$	{123456, 1236, 14789, 23457, 237, 4689}
942:126	$0, 0, 0, 0, 0, \frac{14}{691}\sqrt{462}e^{12}, \frac{42}{691}\sqrt{22}e^{13}, \frac{14}{691}\sqrt{374}e^{16},$ $\frac{14}{691}\sqrt{110}e^{17} + \frac{56}{691}\sqrt{33}e^{45}$	$(-\frac{196}{691}, \frac{308}{691}, \frac{308}{691}, -\frac{42}{691}, -\frac{42}{691}, \frac{112}{691}, \frac{112}{691}, -\frac{84}{691}, -\frac{84}{691})$ $- \frac{14}{691}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{691}\sqrt{1334}e^2 \otimes e_9$	{124578, 1278, 13469, 24568, 268, 3479}
942:126	$0, 0, 0, 0, 0, \frac{14}{691}\sqrt{462}e^{12}, \frac{42}{691}\sqrt{22}e^{13}, \frac{14}{691}\sqrt{374}e^{16},$ $\frac{14}{691}\sqrt{110}e^{17} + \frac{56}{691}\sqrt{33}e^{45}$	$(-\frac{196}{691}, \frac{308}{691}, \frac{308}{691}, -\frac{42}{691}, -\frac{42}{691}, \frac{112}{691}, \frac{112}{691}, -\frac{84}{691}, -\frac{84}{691})$ $+ \frac{14}{691}\sqrt{1070}e^3 \otimes e_8 + \frac{14}{691}\sqrt{1334}e^2 \otimes e_9$	{124578, 1278, 13469, 24568, 268, 3479}
942:127	$0, 0, 0, 0, 0, \frac{4}{69}\sqrt{22}e^{12}, \frac{2}{69}\sqrt{374}e^{13}, \frac{2}{207}\sqrt{3102}e^{26},$ $\frac{22}{207}\sqrt{6}e^{17} + \frac{2}{207}\sqrt{330}e^{45}$	$(-\frac{8}{69}, -\frac{1}{23}, \frac{10}{23}, \frac{29}{69}, -\frac{5}{23}, -\frac{11}{69}, \frac{22}{69}, -\frac{14}{69}, \frac{14}{69})$ $+ \frac{2}{207}\sqrt{7590}e^3 \otimes e_8 + \frac{44}{69}e^4 \otimes e_5$	{123469, 123569, 1349, 1359}
942:127	$0, 0, 0, 0, 0, \frac{22}{141}\sqrt{6}e^{12}, \frac{2}{141}\sqrt{330}e^{13}, \frac{2}{141}\sqrt{3102}e^{26},$ $\frac{4}{47}\sqrt{22}e^{17} + \frac{2}{47}\sqrt{374}e^{45}$	$(\frac{22}{141}, -\frac{32}{141}, \frac{7}{47}, \frac{30}{47}, -\frac{25}{141}, -\frac{10}{141}, \frac{43}{141}, -\frac{14}{47}, \frac{65}{141})$ $+ \frac{2}{141}\sqrt{7590}e^4 \otimes e_8$	{1238, 125789, 1368, 156789, 234567, 2469, 3457, 49}
942:127	$0, 0, 0, 0, 0, \frac{1}{64}\sqrt{966}e^{12}, \frac{1}{32}\sqrt{23}e^{13}, \frac{1}{64}\sqrt{230}e^{26},$ $\frac{1}{64}\sqrt{966}e^{17} + \frac{1}{32}\sqrt{23}e^{45}$	$(\frac{21}{64}, -\frac{11}{128}, -\frac{25}{64}, \frac{63}{128}, -\frac{29}{128}, \frac{31}{128}, -\frac{1}{16}, \frac{5}{32}, \frac{17}{64})$ $+ \frac{1}{64}\sqrt{3082}e^1 \otimes e_3 + \frac{23}{32}e^4 \otimes e_5$	{2346, 2356, 34, 35}
942:127	$0, 0, 0, 0, 0, \frac{8}{3987}\sqrt{44446}e^{12}, \frac{8}{3987}\sqrt{2627}e^{13}, \frac{8}{3987}\sqrt{57155}e^{26},$ $\frac{8}{3987}\sqrt{17466}e^{17} + \frac{8}{3987}\sqrt{51333}e^{45}$	$(\frac{1252}{3987}, -\frac{916}{3987}, -\frac{340}{1329}, \frac{188}{443}, -\frac{208}{3987}, \frac{112}{1329}, \frac{232}{3987}, -\frac{580}{3987}, \frac{1484}{3987})$ $+ \frac{16}{3987}\sqrt{27903}e^1 \otimes e_3 + \frac{80}{3987}\sqrt{1349}e^4 \otimes e_8$	{12589, 15689, 23456, 345}
942:127	$0, 0, 0, 0, 0, \frac{16}{219}\sqrt{66}e^{12}, \frac{16}{73}e^{13}, \frac{16}{219}\sqrt{73}e^{26},$ $\frac{16}{219}\sqrt{30}e^{17} + \frac{16}{73}\sqrt{7}e^{45}$	$(-\frac{16}{73}, \frac{80}{219}, \frac{16}{73}, -\frac{8}{73}, -\frac{8}{73}, \frac{32}{219}, 0, \frac{112}{219}, -\frac{16}{73})$ $+ \frac{32}{73}\sqrt{5}e^2 \otimes e_9$	{1234578, 12378, 14689, 23456, 236, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:127	$0, 0, 0, 0, 0, \frac{16}{283}\sqrt{66}e^{12}, \frac{48}{283}e^{13}, \frac{16}{283}\sqrt{73}e^{26},$ $\frac{16}{283}\sqrt{30}e^{17} + \frac{48}{283}\sqrt{7}e^{45}$	$(-\frac{48}{283}, \frac{80}{283}, \frac{48}{283}, \frac{40}{283}, -\frac{88}{283}, \frac{32}{283}, 0, \frac{112}{283}, -\frac{48}{283})$ $+ \frac{128}{283}e^4 \otimes e_5 + \frac{96}{283}\sqrt{5}e^2 \otimes e_9$	{14689, 15689, 479, 579}
942:127	$0, 0, 0, 0, 0, \frac{16}{5451}\sqrt{5610}e^{12}, \frac{16}{5451}\sqrt{885}e^{13}, \frac{16}{5451}\sqrt{9085}e^{26},$ $\frac{80}{5451}\sqrt{30}e^{17} + \frac{16}{5451}\sqrt{8835}e^{45}$	$(-\frac{168}{1817}, \frac{400}{5451}, \frac{256}{1817}, \frac{312}{1817}, -\frac{392}{1817}, -\frac{104}{5451}, \frac{88}{1817}, \frac{296}{5451}, -\frac{80}{1817})$ $+ \frac{128}{5451}\sqrt{165}e^4 \otimes e_8 + \frac{32}{5451}\sqrt{3435}e^2 \otimes e_9$	{12378, 15689, 23456, 479}
942:127	$0, 0, 0, 0, 0, \frac{24}{5309}\sqrt{1198}e^{12}, \frac{24}{5309}\sqrt{235}e^{13}, \frac{24}{5309}\sqrt{1451}e^{26},$ $\frac{24}{5309}\sqrt{426}e^{17} + \frac{24}{5309}\sqrt{1309}e^{45}$	$(\frac{60}{5309}, \frac{180}{5309}, -\frac{228}{5309}, -\frac{816}{5309}, \frac{708}{5309}, \frac{240}{5309}, -\frac{168}{5309}, \frac{420}{5309}, -\frac{108}{5309})$ $+ \frac{48}{5309}\sqrt{239}e^1 \otimes e_3 + \frac{48}{5309}\sqrt{381}e^5 \otimes e_8 + \frac{96}{5309}\sqrt{146}e^2 \otimes e_9$	{14689, 23456}
942:127	$0, 0, 0, 0, 0, \frac{48}{5683}\sqrt{1490}e^{12}, \frac{48}{5683}\sqrt{305}e^{13}, \frac{48}{5683}\sqrt{1105}e^{26},$ $\frac{48}{5683}\sqrt{942}e^{17} + \frac{48}{5683}\sqrt{791}e^{45}$	$(\frac{240}{5683}, \frac{720}{5683}, -\frac{912}{5683}, -\frac{792}{5683}, \frac{360}{5683}, \frac{960}{5683}, -\frac{672}{5683}, \frac{1680}{5683}, -\frac{432}{5683})$ $+ \frac{1152}{5683}e^5 \otimes e_4 + \frac{768}{5683}\sqrt{7}e^1 \otimes e_3 + \frac{96}{5683}\sqrt{685}e^2 \otimes e_9$	{14689, 15689}
942:127	$0, 0, 0, 0, 0, \frac{16}{475}\sqrt{66}e^{12}, \frac{16}{475}\sqrt{55}e^{13}, \frac{16}{285}\sqrt{57}e^{26},$ $\frac{16}{1425}\sqrt{462}e^{17} + \frac{16}{1425}\sqrt{759}e^{45}$	$(-\frac{112}{475}, \frac{16}{95}, \frac{176}{475}, -\frac{24}{475}, -\frac{24}{475}, -\frac{32}{475}, \frac{64}{475}, \frac{48}{475}, -\frac{48}{475})$ $+ \frac{256}{1425}\sqrt{6}e^3 \otimes e_8 + \frac{32}{475}\sqrt{61}e^2 \otimes e_9$	{124578, 1278, 3479}
942:127	$0, 0, 0, 0, 0, \frac{16}{539}\sqrt{66}e^{12}, \frac{16}{539}\sqrt{55}e^{13}, \frac{80}{1617}\sqrt{57}e^{26},$ $\frac{16}{1617}\sqrt{462}e^{17} + \frac{16}{1617}\sqrt{759}e^{45}$	$(-\frac{16}{77}, \frac{80}{539}, \frac{16}{49}, -\frac{8}{49}, \frac{40}{539}, -\frac{32}{539}, \frac{64}{539}, \frac{48}{539}, -\frac{48}{539})$ $+ \frac{128}{539}e^5 \otimes e_4 + \frac{256}{1617}\sqrt{6}e^3 \otimes e_8 + \frac{32}{539}\sqrt{61}e^2 \otimes e_9$	{3479, 3579}
942:127	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{966}e^{12}, \frac{2}{41}\sqrt{23}e^{13}, \frac{1}{41}\sqrt{230}e^{26},$ $\frac{1}{41}\sqrt{966}e^{17} + \frac{2}{41}\sqrt{23}e^{45}$	$(\frac{21}{41}, -\frac{11}{82}, -\frac{25}{41}, \frac{17}{82}, \frac{17}{82}, \frac{31}{82}, -\frac{4}{41}, \frac{10}{41}, \frac{17}{41})$ $+ \frac{1}{41}\sqrt{3082}e^1 \otimes e_3$	{124589, 1289, 145689, 1689, 2346, 34}
942:127	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{22}e^{12}, \frac{2}{47}\sqrt{374}e^{13}, \frac{2}{141}\sqrt{3102}e^{26},$ $\frac{2}{141}\sqrt{6}e^{17} + \frac{2}{141}\sqrt{330}e^{45}$	$(-\frac{8}{47}, -\frac{3}{47}, \frac{30}{47}, \frac{7}{47}, \frac{7}{47}, -\frac{11}{47}, \frac{22}{47}, -\frac{14}{47}, \frac{14}{47})$ $+ \frac{2}{141}\sqrt{7590}e^3 \otimes e_8$	{123469, 1349, 2458, 28, 4568, 68}
942:127	$0, 0, 0, 0, 0, \frac{32}{161}\sqrt{3}e^{12}, \frac{48}{161}\sqrt{2}e^{13}, \frac{16}{161}\sqrt{22}e^{26},$ $\frac{32}{161}\sqrt{3}e^{17} + \frac{48}{161}\sqrt{2}e^{45}$	$(\frac{12}{161}, \frac{16}{161}, \frac{24}{161}, \frac{152}{161}, \frac{104}{161}, \frac{4}{23}, \frac{36}{161}, \frac{44}{161}, \frac{48}{161})$ $+ \frac{256}{161}e^4 \otimes e_5$	{123489, 123589, 134689, 135689, 234679, 235679, 3479, 3579}
942:127	$0, 0, 0, 0, 0, \frac{48}{5107}\sqrt{1490}e^{12}, \frac{48}{5107}\sqrt{305}e^{13}, \frac{48}{5107}\sqrt{1105}e^{26},$ $\frac{48}{5107}\sqrt{942}e^{17} + \frac{48}{5107}\sqrt{791}e^{45}$	$(\frac{240}{5107}, \frac{720}{5107}, -\frac{912}{5107}, -\frac{216}{5107}, -\frac{216}{5107}, \frac{960}{5107}, -\frac{672}{5107}, \frac{1680}{5107}, -\frac{432}{5107})$ $+ \frac{768}{5107}\sqrt{7}e^1 \otimes e_3 + \frac{96}{5107}\sqrt{685}e^2 \otimes e_9$	{14689, 23456, 236}
942:128	$0, 0, 0, 0, 0, \frac{4}{961}\sqrt{1363}e^{12}, \frac{2}{4805}\sqrt{1223974}e^{13}, \frac{8}{4805}\sqrt{72239}e^{16},$ $\frac{16}{4805}\sqrt{25897}e^{37} + \frac{2}{4805}\sqrt{280778}e^{45}$	$(-\frac{1048}{4805}, \frac{698}{4805}, \frac{1328}{4805}, \frac{2167}{4805}, -\frac{559}{4805}, -\frac{70}{961}, \frac{56}{961}, -\frac{1398}{4805}, \frac{1608}{4805})$ $+ \frac{12}{4805}\sqrt{107677}e^3 \otimes e_8 + \frac{2726}{4805}e^4 \otimes e_5$	{2347, 2357, 468, 568}
942:128	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{55}e^{12}, \frac{4}{125}\sqrt{55}e^{13}, \frac{1}{125}\sqrt{4290}e^{16},$ $\frac{2}{125}\sqrt{110}e^{37} + \frac{2}{125}\sqrt{715}e^{45}$	$(\frac{16}{125}, -\frac{39}{125}, \frac{2}{25}, \frac{48}{125}, -\frac{12}{125}, -\frac{23}{125}, \frac{26}{125}, -\frac{7}{125}, \frac{36}{125})$ $+ \frac{1}{125}\sqrt{5610}e^1 \otimes e_2 + \frac{2}{25}\sqrt{66}e^4 \otimes e_8$	{13456, 14567, 2356789, 25689}
942:128	$0, 0, 0, 0, 0, \frac{14}{201}\sqrt{5}e^{12}, \frac{7}{402}\sqrt{383}e^{13}, \frac{49}{402}\sqrt{7}e^{16},$ $\frac{7}{402}\sqrt{302}e^{37} + \frac{7}{402}\sqrt{53}e^{45}$	$(\frac{7}{201}, -\frac{14}{67}, \frac{7}{67}, 0, \frac{49}{201}, -\frac{35}{201}, \frac{28}{201}, -\frac{28}{201}, \frac{49}{201})$ $+ \frac{49}{201}e^5 \otimes e_4 + \frac{7}{402}\sqrt{559}e^1 \otimes e_2 + \frac{7}{402}\sqrt{710}e^3 \otimes e_8$	{2347, 2357}
942:128	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{95}e^{12}, \frac{2}{85}\sqrt{1045}e^{13}, \frac{1}{85}\sqrt{3990}e^{16},$ $\frac{2}{85}\sqrt{190}e^{37} + \frac{2}{85}\sqrt{190}e^{45}$	$(\frac{44}{85}, -\frac{3}{5}, -\frac{2}{17}, \frac{12}{85}, \frac{12}{85}, -\frac{7}{85}, \frac{2}{5}, \frac{37}{85}, \frac{24}{85})$ $+ \frac{1}{85}\sqrt{13110}e^1 \otimes e_2$	{13489, 14789, 2, 23457, 237, 245}
942:128	$0, 0, 0, 0, 0, \frac{26}{1033}\sqrt{167}e^{12}, \frac{26}{1033}\sqrt{82}e^{13}, \frac{13}{1033}\sqrt{662}e^{16},$ $\frac{13}{1033}\sqrt{1258}e^{37} + \frac{13}{1033}\sqrt{358}e^{45}$	$(-\frac{286}{1033}, \frac{416}{1033}, \frac{182}{1033}, \frac{39}{1033}, \frac{39}{1033}, \frac{130}{1033}, -\frac{104}{1033}, -\frac{156}{1033}, \frac{78}{1033})$ $+ \frac{390}{1033}\sqrt{2}e^3 \otimes e_8 + \frac{39}{1033}\sqrt{202}e^2 \otimes e_9$	{13469, 24568, 268}
942:128	$0, 0, 0, 0, 0, \frac{2}{237}\sqrt{2035}e^{12}, \frac{2}{237}\sqrt{962}e^{13}, \frac{1}{237}\sqrt{7474}e^{16},$ $\frac{1}{79}\sqrt{370}e^{37} + \frac{1}{237}\sqrt{10582}e^{45}$	$(-\frac{52}{237}, \frac{28}{79}, \frac{31}{237}, \frac{18}{79}, -\frac{44}{237}, \frac{32}{237}, -\frac{7}{79}, -\frac{20}{237}, \frac{10}{237})$ $+ \frac{14}{237}\sqrt{74}e^4 \otimes e_8 + \frac{1}{237}\sqrt{16502}e^2 \otimes e_9$	{12378, 128, 349, 479}
942:128	$0, 0, 0, 0, 0, \frac{4}{137}\sqrt{218}e^{12}, \frac{4}{137}\sqrt{109}e^{13}, \frac{4}{137}\sqrt{218}e^{16},$ $\frac{2}{137}\sqrt{763}e^{37} + \frac{2}{137}\sqrt{763}e^{45}$	$(\frac{8}{137}, \frac{20}{137}, \frac{17}{137}, \frac{130}{137}, -\frac{88}{137}, \frac{28}{137}, \frac{25}{137}, \frac{36}{137}, \frac{42}{137})$ $+ \frac{218}{137}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:128	$0, 0, 0, 0, 0, \frac{4}{265}\sqrt{95e^{12}}, \frac{4}{265}\sqrt{1045e^{13}}, \frac{2}{265}\sqrt{3990e^{16}},$ $\frac{4}{265}\sqrt{190e^{37}} + \frac{4}{265}\sqrt{190e^{45}}$	$(\frac{88}{265}, -\frac{102}{265}, -\frac{4}{53}, \frac{119}{265}, -\frac{71}{265}, -\frac{14}{265}, \frac{68}{265}, \frac{74}{265}, \frac{48}{265})$ $+ \frac{2}{265}\sqrt{13110e^1} \otimes e_2 + \frac{38}{53}e^4 \otimes e_5$	{13489, 13589, 14789, 15789}
942:128	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{17e^{12}}, \frac{1}{11}\sqrt{17e^{13}}, \frac{1}{11}\sqrt{17e^{16}},$ $\frac{1}{22}\sqrt{187e^{37}} + \frac{1}{22}\sqrt{187e^{45}}$	$(-\frac{2}{11}, \frac{7}{11}, \frac{1}{44}, -\frac{3}{44}, -\frac{3}{44}, \frac{5}{11}, -\frac{7}{44}, \frac{3}{11}, -\frac{3}{22})$ $+ \frac{3}{11}\sqrt{17e^2} \otimes e_9$	{1234578, 12378, 12458, 128, 349, 479}
942:128	$0, 0, 0, 0, 0, \frac{10}{1721}\sqrt{1363e^{12}}, \frac{1}{1721}\sqrt{1223974e^{13}}, \frac{4}{1721}\sqrt{72239e^{16}},$ $\frac{8}{1721}\sqrt{25897e^{37}} + \frac{1}{1721}\sqrt{280778e^{45}}$	$(-\frac{524}{1721}, \frac{349}{1721}, \frac{664}{1721}, \frac{402}{1721}, \frac{402}{1721}, -\frac{175}{1721}, \frac{140}{1721}, -\frac{699}{1721}, \frac{804}{1721})$ $+ \frac{6}{1721}\sqrt{107677e^3} \otimes e_8$	{1234569, 12369, 145789, 1789, 2347, 468}
942:128	$0, 0, 0, 0, 0, \frac{28}{353}\sqrt{5e^{12}}, \frac{7}{353}\sqrt{383e^{13}}, \frac{49}{353}\sqrt{7e^{16}},$ $\frac{7}{353}\sqrt{302e^{37}} + \frac{7}{353}\sqrt{53e^{45}}$	$(\frac{14}{353}, -\frac{84}{353}, \frac{42}{353}, \frac{49}{353}, \frac{49}{353}, -\frac{70}{353}, \frac{56}{353}, -\frac{56}{353}, \frac{98}{353})$ $+ \frac{7}{353}\sqrt{559e^1} \otimes e_2 + \frac{7}{353}\sqrt{710e^3} \otimes e_8$	{145789, 1789, 2347}
942:128	$0, 0, 0, 0, 0, \frac{4}{1697}\sqrt{30001e^{12}}, \frac{1}{1697}\sqrt{495806e^{13}}, \frac{2}{1697}\sqrt{487911e^{16}},$ $\frac{10}{1697}\sqrt{3158e^{37}} + \frac{1}{1697}\sqrt{1891642e^{45}}$	$(-\frac{314}{1697}, \frac{147}{1697}, \frac{556}{1697}, \frac{1098}{1697}, -\frac{300}{1697}, -\frac{167}{1697}, \frac{242}{1697}, -\frac{481}{1697}, \frac{798}{1697})$ $+ \frac{2}{1697}\sqrt{1103721e^4} \otimes e_8$	{1235789, 12589, 134679, 1469, 2368, 2678, 345, 457}
942:128	$0, 0, 0, 0, 0, \frac{8}{61}\sqrt{17e^{12}}, \frac{4}{61}\sqrt{17e^{13}}, \frac{4}{61}\sqrt{17e^{16}},$ $\frac{2}{61}\sqrt{187e^{37}} + \frac{2}{61}\sqrt{187e^{45}}$	$(-\frac{8}{61}, \frac{28}{61}, \frac{1}{61}, \frac{14}{61}, -\frac{20}{61}, \frac{20}{61}, -\frac{7}{61}, \frac{12}{61}, -\frac{6}{61})$ $+ \frac{12}{61}\sqrt{17e^2} \otimes e_9 + \frac{34}{61}e^4 \otimes e_5$	{349, 359, 479, 579}
942:128	$0, 0, 0, 0, 0, \frac{13}{601}\sqrt{167e^{12}}, \frac{13}{601}\sqrt{82e^{13}}, \frac{13}{1202}\sqrt{662e^{16}},$ $\frac{13}{1202}\sqrt{1258e^{37}} + \frac{13}{1202}\sqrt{358e^{45}}$	$(-\frac{143}{601}, \frac{208}{601}, \frac{91}{601}, -\frac{65}{601}, \frac{104}{601}, \frac{65}{601}, -\frac{52}{601}, -\frac{78}{601}, \frac{39}{601})$ $+ \frac{169}{601}e^5 \otimes e_4 + \frac{195}{601}\sqrt{2e^3} \otimes e_8 + \frac{39}{1202}\sqrt{202e^2} \otimes e_9$	{13469, 13569}
942:129	$0, 0, 0, 0, 0, \frac{128}{1641}\sqrt{3e^{12}}, \frac{8}{1641}\sqrt{609e^{13}}, \frac{8}{1641}\sqrt{1641e^{26}},$ $\frac{8}{1641}\sqrt{1482e^{37}} + \frac{8}{547}\sqrt{53e^{45}}$	$(-\frac{88}{547}, \frac{56}{547}, \frac{56}{547}, \frac{12}{547}, \frac{12}{547}, -\frac{32}{547}, -\frac{32}{547}, \frac{24}{547}, \frac{24}{547})$ $+ \frac{16}{1641}\sqrt{582e^2} \otimes e_9 + \frac{8}{1641}\sqrt{2010e^3} \otimes e_8$	{146789, 234567, 2367}
942:129	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{285e^{12}}, \frac{2}{123}\sqrt{1653e^{13}}, \frac{2}{123}\sqrt{1558e^{26}},$ $\frac{2}{123}\sqrt{1653e^{37}} + \frac{2}{123}\sqrt{285e^{45}}$	$(-\frac{5}{41}, -\frac{25}{246}, \frac{41}{82}, \frac{19}{82}, \frac{19}{82}, -\frac{55}{246}, \frac{7}{41}, -\frac{40}{123}, \frac{19}{41})$ $+ \frac{4}{123}\sqrt{969e^3} \otimes e_8$	{1234569, 12369, 13459, 139, 248, 468}
942:129	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{285e^{12}}, \frac{2}{161}\sqrt{1653e^{13}}, \frac{2}{161}\sqrt{1558e^{26}},$ $\frac{2}{161}\sqrt{1653e^{37}} + \frac{2}{161}\sqrt{285e^{45}}$	$(-\frac{15}{161}, -\frac{25}{322}, \frac{36}{161}, \frac{19}{46}, -\frac{19}{322}, -\frac{55}{322}, \frac{3}{23}, -\frac{40}{161}, \frac{57}{161})$ $+ \frac{4}{161}\sqrt{969e^3} \otimes e_8 + \frac{76}{161}e^4 \otimes e_5$	{248, 258, 468, 568}
942:129	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{138e^{12}}, \frac{1}{29}\sqrt{138e^{13}}, \frac{2}{29}\sqrt{46e^{26}},$ $\frac{1}{29}\sqrt{138e^{37}} + \frac{1}{29}\sqrt{138e^{45}}$	$(\frac{3}{29}, \frac{5}{58}, \frac{3}{29}, \frac{55}{58}, -\frac{37}{58}, \frac{11}{58}, \frac{6}{29}, \frac{8}{29}, \frac{9}{29})$ $+ \frac{46}{29}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 134689, 135689, 146789, 156789}
942:129	$0, 0, 0, 0, 0, \frac{1}{102}\sqrt{94e^{12}}, \frac{1}{51}\sqrt{141e^{13}}, \frac{1}{51}\sqrt{799e^{26}},$ $\frac{1}{102}\sqrt{2397e^{37}} + \frac{1}{102}\sqrt{2397e^{45}}$	$(-\frac{2}{17}, \frac{16}{51}, -\frac{1}{68}, -\frac{5}{68}, -\frac{5}{68}, \frac{10}{51}, -\frac{9}{68}, \frac{26}{51}, -\frac{5}{34})$ $+ \frac{1}{51}\sqrt{1974e^2} \otimes e_9$	{1234578, 12378, 12458, 128, 349, 479}
942:129	$0, 0, 0, 0, 0, \frac{4}{397}\sqrt{390e^{12}}, \frac{4}{397}\sqrt{65e^{13}}, \frac{4}{1191}\sqrt{5161e^{26}},$ $\frac{4}{1191}\sqrt{1794e^{37}} + \frac{52}{397}\sqrt{3e^{45}}$	$(-\frac{30}{397}, \frac{98}{1191}, \frac{14}{397}, \frac{70}{397}, -\frac{72}{397}, \frac{8}{1191}, -\frac{16}{397}, \frac{106}{1191}, -\frac{2}{397})$ $+ \frac{4}{1191}\sqrt{5538e^4} \otimes e_8 + \frac{4}{397}\sqrt{910e^2} \otimes e_9$	{12378, 128, 349, 479}
942:129	$0, 0, 0, 0, 0, \frac{12}{251}\sqrt{94e^{12}}, \frac{4}{251}\sqrt{141e^{13}}, \frac{4}{251}\sqrt{799e^{26}},$ $\frac{1}{251}\sqrt{2397e^{37}} + \frac{2}{251}\sqrt{2397e^{45}}$	$(-\frac{24}{251}, \frac{64}{251}, -\frac{3}{251}, \frac{32}{251}, -\frac{62}{251}, \frac{40}{251}, -\frac{27}{251}, \frac{104}{251}, -\frac{30}{251})$ $+ \frac{4}{251}\sqrt{1974e^2} \otimes e_9 + \frac{94}{251}e^4 \otimes e_5$	{349, 359, 479, 579}
942:129	$0, 0, 0, 0, 0, \frac{128}{1689}\sqrt{3e^{12}}, \frac{8}{1689}\sqrt{609e^{13}}, \frac{8}{1689}\sqrt{1641e^{26}},$ $\frac{8}{1689}\sqrt{1482e^{37}} + \frac{8}{563}\sqrt{53e^{45}}$	$(-\frac{88}{563}, \frac{56}{563}, \frac{56}{563}, -\frac{4}{563}, \frac{28}{563}, -\frac{32}{563}, -\frac{32}{563}, \frac{24}{563}, \frac{24}{563})$ $+ \frac{16}{1689}\sqrt{582e^2} \otimes e_9 + \frac{32}{563}e^5 \otimes e_4 + \frac{8}{1689}\sqrt{2010e^3} \otimes e_8$	{146789, 156789}
942:129	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{255e^{12}}, \frac{1}{54}\sqrt{255e^{13}}, \frac{1}{9}\sqrt{51e^{26}},$ $\frac{1}{18}\sqrt{34e^{37}} + \frac{1}{54}\sqrt{1938e^{45}}$	$(\frac{5}{54}, -\frac{7}{36}, \frac{7}{36}, \frac{35}{54}, -\frac{1}{6}, -\frac{11}{108}, \frac{31}{108}, -\frac{8}{27}, \frac{13}{27})$ $+ \frac{1}{27}\sqrt{1122e^4} \otimes e_8$	{1238, 1278, 1368, 1678, 234679, 2469, 3479, 49}
942:130	$0, 0, 0, 0, 0, \frac{2}{3649}\sqrt{190353e^{12}}, \frac{2}{3649}\sqrt{477365e^{13}}, \frac{2}{3649}\sqrt{541409e^{16}},$ $\frac{2}{3649}\sqrt{254397e^{17}} + \frac{36}{3649}\sqrt{593e^{26}}$	$(-\frac{271}{3649}, \frac{373}{3649}, \frac{1017}{3649}, -\frac{1457}{3649}, \frac{370}{3649}, \frac{102}{3649}, \frac{746}{3649}, -\frac{169}{3649}, \frac{475}{3649})$ $+ \frac{44}{3649}\sqrt{1779e^3} \otimes e_8 + \frac{6}{3649}\sqrt{120379e^1} \otimes e_4$	{12578, 1278, 34579, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:130	$0, 0, 0, 0, 0, \frac{39}{6085}\sqrt{438e^{12}}, \frac{39}{6085}\sqrt{2498e^{13}}, \frac{234}{6085}\sqrt{46e^{16}},$ $\frac{1287}{6085}\sqrt{2e^{17}} + \frac{78}{6085}\sqrt{14e^{26}}$	$(-\frac{78}{1217}, \frac{351}{6085}, \frac{1092}{6085}, -\frac{1911}{6085}, \frac{1833}{6085}, -\frac{39}{6085}, \frac{702}{6085}, -\frac{429}{6085}, \frac{312}{6085})$ $+ \frac{39}{6085}\sqrt{2582e^5} \otimes e_9 + \frac{39}{6085}\sqrt{3598e^3} \otimes e_8 + \frac{39}{6085}\sqrt{4906e^1} \otimes e_4$	{12578, 3479}
942:130	$0, 0, 0, 0, 0, \frac{4}{1177}\sqrt{25194e^{12}}, \frac{1}{1177}\sqrt{46410e^{13}}, \frac{4}{1177}\sqrt{12597e^{16}},$ $\frac{39}{1177}\sqrt{170e^{17}} + \frac{1}{1177}\sqrt{351390e^{26}}$	$(-\frac{160}{1177}, \frac{183}{1177}, \frac{526}{1177}, -\frac{480}{1177}, \frac{136}{1177}, \frac{23}{1177}, \frac{366}{1177}, -\frac{137}{1177}, \frac{206}{1177})$ $+ \frac{4}{1177}\sqrt{51051e^2} \otimes e_4 + \frac{85}{1177}\sqrt{78e^3} \otimes e_8$	{125789, 12789, 3457, 347}
942:130	$0, 0, 0, 0, 0, \frac{4}{2661}\sqrt{48793e^{12}}, \frac{2}{2661}\sqrt{452369e^{13}}, \frac{2}{2661}\sqrt{12405e^{16}},$ $\frac{2}{2661}\sqrt{391171e^{17}} + \frac{2}{2661}\sqrt{293585e^{26}}$	$(-\frac{487}{2661}, \frac{193}{2661}, \frac{291}{887}, \frac{1553}{2661}, \frac{104}{887}, \frac{98}{887}, \frac{386}{2661}, -\frac{781}{2661}, \frac{101}{2661})$ $+ \frac{2}{2661}\sqrt{1026307e^4} \otimes e_9 + \frac{4}{2661}\sqrt{229079e^3} \otimes e_8$	{14578, 1478, 23579, 2379}
942:130	$0, 0, 0, 0, 0, \frac{17}{1146}\sqrt{646e^{12}}, \frac{17}{1146}\sqrt{231e^{13}}, \frac{17}{573}\sqrt{59e^{16}},$ $\frac{17}{573}\sqrt{15e^{17}} + \frac{17}{573}\sqrt{103e^{26}}$	$(\frac{119}{1146}, -\frac{17}{764}, -\frac{85}{573}, -\frac{629}{2292}, \frac{119}{382}, \frac{187}{2292}, -\frac{17}{382}, \frac{425}{2292}, \frac{34}{573})$ $+ \frac{17}{1146}\sqrt{818e^2} \otimes e_4 + \frac{17}{573}\sqrt{190e^1} \otimes e_3 + \frac{85}{1146}\sqrt{21e^5} \otimes e_9$	{1289, 1469, 23568, 345}
942:130	$0, 0, 0, 0, 0, \frac{1}{686}\sqrt{79534e^{12}}, \frac{1}{686}\sqrt{299e^{13}}, \frac{1}{343}\sqrt{9269e^{16}},$ $\frac{1}{343}\sqrt{1495e^{17}} + \frac{1}{343}\sqrt{36777e^{26}}$	$(-\frac{11}{686}, \frac{59}{1372}, \frac{5}{49}, \frac{347}{686}, -\frac{11}{28}, \frac{37}{1372}, \frac{59}{686}, \frac{15}{1372}, \frac{24}{343})$ $+ \frac{1}{686}\sqrt{165945e^4} \otimes e_9 + \frac{1}{686}\sqrt{202722e^2} \otimes e_5$	{129, 15689, 2346, 3458}
942:130	$0, 0, 0, 0, 0, \frac{17}{1146}\sqrt{646e^{12}}, \frac{17}{1146}\sqrt{231e^{13}}, \frac{17}{573}\sqrt{59e^{16}},$ $\frac{17}{573}\sqrt{15e^{17}} + \frac{17}{573}\sqrt{103e^{26}}$	$(\frac{119}{1146}, -\frac{17}{764}, -\frac{85}{573}, -\frac{629}{2292}, \frac{119}{382}, \frac{187}{2292}, -\frac{17}{382}, \frac{425}{2292}, \frac{34}{573})$ $+ \frac{17}{1146}\sqrt{818e^2} \otimes e_4 - \frac{17}{573}\sqrt{190e^1} \otimes e_3 + \frac{85}{1146}\sqrt{21e^5} \otimes e_9$	{1289, 1469, 23568, 345}
942:130	$0, 0, 0, 0, 0, \frac{2}{3217}\sqrt{112654e^{12}}, \frac{10}{3217}\sqrt{27094e^{13}}, \frac{2}{3217}\sqrt{149017e^{16}},$ $\frac{22}{3217}\sqrt{3565e^{17}} + \frac{6}{3217}\sqrt{12121e^{26}}$	$(\frac{107}{3217}, \frac{350}{3217}, \frac{593}{3217}, -\frac{1319}{3217}, -\frac{833}{3217}, \frac{457}{3217}, \frac{700}{3217}, \frac{564}{3217}, \frac{807}{3217})$ $+ \frac{12}{3217}\sqrt{23529e^3} \otimes e_5 + \frac{186}{3217}\sqrt{138e^1} \otimes e_4$	{12578, 1567, 2346789, 3479}
942:130	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{130e^{12}}, \frac{1}{11}\sqrt{13e^{13}}, \frac{1}{22}\sqrt{26e^{16}},$ $\frac{1}{22}\sqrt{65e^{17}} + \frac{1}{11}\sqrt{39e^{26}}$	$(-\frac{1}{22}, \frac{7}{44}, \frac{4}{11}, -\frac{19}{44}, -\frac{5}{22}, \frac{5}{44}, \frac{7}{22}, \frac{3}{44}, \frac{3}{11})$ $+ \frac{1}{11}\sqrt{78e^2} \otimes e_4 + \frac{1}{22}\sqrt{195e^3} \otimes e_5$	{12579, 1456789, 2367, 3478}
942:130	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{23870e^{12}}, \frac{1}{139}\sqrt{20119e^{13}}, \frac{1}{278}\sqrt{27962e^{16}},$ $\frac{1}{278}\sqrt{24211e^{17}} + \frac{3}{139}\sqrt{341e^{26}}$	$(-\frac{29}{278}, \frac{131}{556}, \frac{80}{139}, -\frac{181}{278}, \frac{97}{556}, \frac{73}{556}, \frac{131}{278}, \frac{15}{556}, \frac{51}{139})$ $+ \frac{3}{278}\sqrt{17391e^3} \otimes e_4$	{1245678, 124678, 1457, 147, 235789, 23789, 35679, 3679}
942:130	$0, 0, 0, 0, 0, \frac{10}{61}\sqrt{10e^{12}}, \frac{10}{61}e^{13}, \frac{20}{61}e^{16}, \frac{5}{61}\sqrt{2e^{17}} + \frac{15}{61}\sqrt{2e^{26}}$	$(\frac{5}{61}, \frac{5}{61}, \frac{5}{61}, -\frac{20}{61}, -\frac{20}{61}, \frac{10}{61}, \frac{10}{61}, \frac{15}{61}, \frac{15}{61})$ $+ \frac{15}{61}\sqrt{6e^1} \otimes e_4 + \frac{15}{61}\sqrt{6e^2} \otimes e_5$	{12789, 15679, 234678, 3457}
942:130	$0, 0, 0, 0, 0, \frac{16}{2809}\sqrt{1234e^{12}}, \frac{20}{2809}\sqrt{3085e^{13}}, \frac{2}{2809}\sqrt{40105e^{16}},$ $\frac{2}{2809}\sqrt{499153e^{17}} + \frac{6}{2809}\sqrt{12957e^{26}}$	$(\frac{191}{2809}, \frac{8}{2809}, -\frac{175}{2809}, \frac{1441}{2809}, -\frac{1043}{2809}, \frac{199}{2809}, \frac{16}{2809}, \frac{390}{2809}, \frac{207}{2809})$ $+ \frac{12}{2809}\sqrt{19127e^4} \otimes e_9 + \frac{12}{2809}\sqrt{23446e^1} \otimes e_5$	{12389, 1369, 24568, 45}
942:130	$0, 0, 0, 0, 0, \frac{2}{295}\sqrt{419e^{12}}, \frac{1}{590}\sqrt{9637e^{13}}, \frac{1}{590}\sqrt{36034e^{16}},$ $\frac{1}{295}\sqrt{17179e^{17}} + \frac{1}{295}\sqrt{16341e^{26}}$	$(-\frac{1}{10}, -\frac{1}{1180}, \frac{29}{295}, \frac{601}{1180}, \frac{359}{590}, \frac{119}{1180}, -\frac{590}{1180}, -\frac{237}{1180}, -\frac{6}{59})$ $+ \frac{1}{590}\sqrt{193578e^4} \otimes e_8 + \frac{1}{590}\sqrt{242601e^5} \otimes e_9$	{124567, 1578, 23479, 36789}
942:130	$0, 0, 0, 0, 0, \frac{4}{1133}\sqrt{3849e^{12}}, \frac{1}{1133}\sqrt{736442e^{13}}, \frac{4}{1133}\sqrt{47471e^{16}},$ $\frac{1}{1133}\sqrt{38490e^{17}} + \frac{3}{1133}\sqrt{7698e^{26}}$	$(-\frac{344}{1133}, \frac{251}{1133}, \frac{846}{1133}, \frac{200}{1133}, \frac{200}{1133}, -\frac{93}{1133}, \frac{502}{1133}, -\frac{437}{1133}, \frac{158}{1133})$ $+ \frac{1}{1133}\sqrt{2394078e^3} \otimes e_8$	{145789, 14789, 1789, 23457, 2347, 237}
942:130	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{23701e^{12}}, \frac{1}{407}\sqrt{6055e^{13}}, \frac{1}{407}\sqrt{46018e^{16}},$ $\frac{1}{407}\sqrt{10726e^{17}} + \frac{9}{407}\sqrt{173e^{26}}$	$(\frac{4}{407}, \frac{29}{814}, \frac{25}{407}, \frac{391}{814}, -\frac{169}{407}, \frac{1}{22}, \frac{29}{407}, \frac{45}{814}, \frac{3}{37})$ $+ \frac{3}{407}\sqrt{5882e^4} \otimes e_8 + \frac{3}{407}\sqrt{8131e^1} \otimes e_5$	{1278, 1467, 2356789, 34579}
942:130	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{298e^{12}}, \frac{2}{93}\sqrt{298e^{13}}, \frac{1}{93}\sqrt{745e^{16}},$ $\frac{1}{93}\sqrt{745e^{17}} + \frac{1}{31}\sqrt{149e^{26}}$	$(\frac{11}{186}, \frac{10}{93}, \frac{29}{186}, 1, -\frac{56}{93}, \frac{1}{6}, \frac{20}{93}, \frac{7}{31}, \frac{17}{62})$ $+ \frac{149}{93}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 2468, 2568, 4, 5}
942:130	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{37774e^{12}}, \frac{5}{223}\sqrt{374e^{13}}, \frac{4}{223}\sqrt{187e^{16}},$ $\frac{11}{223}\sqrt{170e^{17}} + \frac{6}{223}\sqrt{935e^{26}}$	$(\frac{5}{223}, \frac{32}{223}, \frac{59}{223}, -\frac{155}{223}, \frac{34}{223}, \frac{37}{223}, \frac{64}{223}, \frac{42}{223}, \frac{69}{223})$ $+ \frac{3}{223}\sqrt{7854e^2} \otimes e_4$	{1235789, 123789, 1345679, 134679, 25678, 2678, 457, 47}
942:130	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190e^{12}}, \frac{2}{49}\sqrt{190e^{13}}, \frac{4}{49}\sqrt{55e^{16}},$ $\frac{4}{49}\sqrt{55e^{17}} + \frac{6}{49}\sqrt{10e^{26}}$	$(\frac{8}{49}, \frac{1}{14}, -\frac{1}{49}, -\frac{32}{49}, \frac{17}{98}, \frac{23}{98}, \frac{1}{7}, \frac{39}{98}, \frac{15}{49})$ $+ \frac{18}{49}\sqrt{10e^1} \otimes e_4$	{12578, 1278, 1567, 167, 23456789, 2346789, 34579, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:130	$0, 0, 0, 0, 0, \frac{2}{1091}\sqrt{103411}e^{12}, \frac{1}{1091}\sqrt{400214}e^{13}, \frac{5}{1091}\sqrt{51034}e^{16},$ $\frac{1}{1091}\sqrt{351866}e^{17} + \frac{6}{1091}\sqrt{4029}e^{26}$	$(-\frac{167}{1091}, \frac{82}{1091}, \frac{331}{1091}, 1, \frac{182}{1091}, -\frac{85}{1091}, \frac{164}{1091}, -\frac{252}{1091}, -\frac{3}{1091})$ $+\frac{3}{1091}\sqrt{271286}e^4 \otimes e_8$	{1258, 128, 1456, 146, 235689, 23689, 3459, 349}
942:130	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{46}e^{12}, \frac{4}{23}\sqrt{5}e^{13}, \frac{23}{4}\sqrt{7}e^{16},$ $\frac{2}{23}\sqrt{30}e^{17} + \frac{2}{23}\sqrt{30}e^{26}$	$(-\frac{5}{69}, \frac{2}{23}, \frac{17}{69}, \frac{32}{69}, -\frac{10}{23}, \frac{1}{69}, \frac{4}{23}, -\frac{4}{69}, \frac{7}{69})$ $+\frac{10}{23}\sqrt{2}e^4 \otimes e_8 + \frac{2}{23}\sqrt{74}e^2 \otimes e_5$	{123789, 1345679, 2678, 457}
942:130	$0, 0, 0, 0, 0, \frac{8}{3549}\sqrt{3849}e^{12}, \frac{2}{3549}\sqrt{736442}e^{13}, \frac{8}{3549}\sqrt{47471}e^{16},$ $\frac{2}{3549}\sqrt{38490}e^{17} + \frac{2}{1183}\sqrt{7698}e^{26}$	$(-\frac{688}{3549}, \frac{502}{3549}, \frac{564}{1183}, \frac{561}{1183}, -\frac{883}{3549}, -\frac{62}{1183}, \frac{1004}{3549}, -\frac{874}{3549}, \frac{316}{3549})$ $+\frac{2566}{3549}e^4 \otimes e_5 + \frac{2}{3549}\sqrt{2394078}e^3 \otimes e_8$	{14789, 15789, 2347, 2357}
942:130	$0, 0, 0, 0, 0, \frac{28}{587}\sqrt{66}e^{12}, \frac{14}{587}\sqrt{102}e^{13}, \frac{14}{587}\sqrt{237}e^{16},$ $\frac{14}{587}\sqrt{393}e^{17} + \frac{126}{587}e^{26}$	$(\frac{97}{587}, -\frac{50}{587}, -\frac{197}{587}, \frac{291}{587}, \frac{65}{587}, \frac{47}{587}, -\frac{100}{587}, \frac{144}{587}, -\frac{3}{587})$ $+\frac{14}{587}\sqrt{678}e^4 \otimes e_9 + \frac{28}{587}\sqrt{222}e^1 \otimes e_3$	{12589, 1289, 1569, 169, 234568, 23468, 34, 345}
942:130	$0, 0, 0, 0, 0, \frac{8}{281}\sqrt{290}e^{12}, \frac{2}{281}\sqrt{6670}e^{13}, \frac{2}{281}\sqrt{8555}e^{16},$ $\frac{2}{281}\sqrt{14065}e^{17} + \frac{18}{281}\sqrt{145}e^{26}$	$(-\frac{5}{281}, -\frac{2}{281}, \frac{1}{281}, 1, \frac{47}{281}, -\frac{7}{281}, -\frac{4}{281}, -\frac{12}{281}, -\frac{9}{281})$ $+\frac{6}{281}\sqrt{3770}e^4 \otimes e_9$	{1245678, 124678, 1457, 147, 235789, 23789, 35679, 3679}
942:130	$0, 0, 0, 0, 0, \frac{28}{587}\sqrt{66}e^{12}, \frac{14}{587}\sqrt{102}e^{13}, \frac{14}{587}\sqrt{237}e^{16},$ $\frac{14}{587}\sqrt{393}e^{17} + \frac{126}{587}e^{26}$	$(\frac{97}{587}, -\frac{50}{587}, -\frac{197}{587}, \frac{291}{587}, \frac{65}{587}, \frac{47}{587}, -\frac{100}{587}, \frac{144}{587}, -\frac{3}{587})$ $+\frac{14}{587}\sqrt{678}e^4 \otimes e_9 - \frac{28}{587}\sqrt{222}e^1 \otimes e_3$	{12589, 1289, 1569, 169, 234568, 23468, 34, 345}
942:130	$0, 0, 0, 0, 0, \frac{8}{1083}\sqrt{2910}e^{12}, \frac{2}{1083}\sqrt{91374}e^{13}, \frac{10}{361}\sqrt{291}e^{16},$ $\frac{10}{1083}\sqrt{3201}e^{17} + \frac{2}{361}\sqrt{6305}e^{26}$	$(-\frac{5}{57}, \frac{74}{1083}, \frac{81}{361}, \frac{635}{1083}, -\frac{113}{361}, -\frac{7}{361}, \frac{148}{1083}, -\frac{116}{1083}, \frac{53}{1083})$ $+\frac{16}{1083}\sqrt{2037}e^3 \otimes e_5 + \frac{2}{1083}\sqrt{153066}e^4 \otimes e_9$	{1245678, 1457, 23789, 3679}
942:130	$0, 0, 0, 0, 0, \frac{287}{4605}\sqrt{26}e^{12}, \frac{41}{4605}\sqrt{518}e^{13}, \frac{164}{4605}\sqrt{6}e^{16},$ $\frac{41}{4605}\sqrt{46}e^{17} + \frac{82}{4605}\sqrt{614}e^{26}$	$(-\frac{451}{4605}, \frac{328}{4605}, \frac{369}{1535}, -\frac{451}{1535}, \frac{1886}{4605}, -\frac{41}{1535}, \frac{656}{4605}, -\frac{574}{4605}, \frac{41}{921})$ $+\frac{41}{1535}\sqrt{394}e^2 \otimes e_4 + \frac{82}{4605}\sqrt{473}e^3 \otimes e_8 + \frac{82}{4605}\sqrt{733}e^5 \otimes e_9$	{1239, 458}
942:130	$0, 0, 0, 0, 0, \frac{1}{674}\sqrt{5030}e^{12}, \frac{1}{337}\sqrt{23641}e^{13}, \frac{1}{674}\sqrt{97582}e^{16},$ $\frac{1}{674}\sqrt{3521}e^{17} + \frac{1}{337}\sqrt{1509}e^{26}$	$(-\frac{107}{674}, \frac{173}{1348}, \frac{140}{337}, \frac{751}{1348}, -\frac{223}{674}, \frac{41}{173}, \frac{173}{1348}, \frac{674}{1348}, -\frac{255}{1348}, \frac{33}{337})$ $+\frac{1}{674}\sqrt{300291}e^3 \otimes e_5 + \frac{5}{337}\sqrt{3018}e^4 \otimes e_8$	{1245679, 15789, 2347, 3678}
942:131	$0, 0, 0, 0, 0, -\frac{3}{184}\sqrt{134}e^{12}, \frac{1}{184}\sqrt{11658}e^{13}, \frac{1}{92}\sqrt{3886}e^{16},$ $\frac{67}{184}\sqrt{2}e^{26} + \frac{1}{184}\sqrt{19430}e^{37}$	$(-\frac{67}{184}, \frac{17}{46}, \frac{17}{46}, \frac{15}{92}, \frac{15}{92}, \frac{1}{184}, \frac{1}{184}, -\frac{33}{92}, \frac{3}{8})$ $+\frac{1}{92}\sqrt{10318}e^3 \otimes e_8$	{1234569, 123469, 12369, 145789, 14789, 1789, 23457, 2347, 237, 4568, 468, 68, 1234569, 123469, 12369, 145789, 14789, 1789, 23457, 2347, 237, 4568, 468, 68}
942:131	$0, 0, 0, 0, 0, \frac{3}{184}\sqrt{134}e^{12}, \frac{1}{184}\sqrt{11658}e^{13}, \frac{1}{92}\sqrt{3886}e^{16},$ $\frac{67}{184}\sqrt{2}e^{26} + \frac{1}{184}\sqrt{19430}e^{37}$	$(-\frac{67}{184}, \frac{17}{46}, \frac{17}{46}, \frac{15}{92}, \frac{15}{92}, \frac{1}{184}, \frac{1}{184}, -\frac{33}{92}, \frac{3}{8})$ $+\frac{1}{92}\sqrt{10318}e^3 \otimes e_8$	{1234569, 123469, 12369, 145789, 14789, 1789, 23457, 2347, 237, 4568, 468, 68, 1234569, 123469, 12369, 145789, 14789, 1789, 23457, 2347, 237, 4568, 468, 68}
942:131	$0, 0, 0, 0, 0, -\frac{5}{36}\sqrt{34}e^{12}, \frac{1}{36}\sqrt{102}e^{13}, \frac{1}{18}\sqrt{34}e^{16},$ $\frac{1}{12}\sqrt{102}e^{26} + \frac{1}{36}\sqrt{170}e^{37}$	$(-\frac{1}{12}, \frac{5}{18}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{7}{36}, \frac{7}{36}, \frac{1}{9}, \frac{17}{36})$ $+\frac{1}{18}\sqrt{510}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 13456789, 1346789, 145689, 14689, 2356, 236, 2567, 267, 3458, 348, 4578, 478, 123579, 12379, 1259, 129, 13456789, 1346789, 145689, 14689, 2356, 236, 2567, 267, 3458, 348, 4578, 478}
942:131	$0, 0, 0, 0, 0, \frac{5}{36}\sqrt{34}e^{12}, \frac{1}{36}\sqrt{102}e^{13}, \frac{1}{18}\sqrt{34}e^{16},$ $\frac{1}{12}\sqrt{102}e^{26} + \frac{1}{36}\sqrt{170}e^{37}$	$(-\frac{1}{12}, \frac{5}{18}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{7}{36}, \frac{7}{36}, \frac{1}{9}, \frac{17}{36})$ $+\frac{1}{18}\sqrt{510}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 13456789, 1346789, 145689, 14689, 2356, 236, 2567, 267, 3458, 348, 4578, 478, 123579, 12379, 1259, 129, 13456789, 1346789, 145689, 14689, 2356, 236, 2567, 267, 3458, 348, 4578, 478}
942:131	$0, 0, 0, 0, 0, -\frac{1}{136}\sqrt{2442}e^{12}, \frac{1}{136}\sqrt{2442}e^{13}, \frac{1}{68}\sqrt{814}e^{16},$ $\frac{1}{136}\sqrt{814}e^{26} + \frac{1}{136}\sqrt{4070}e^{37}$	$(-\frac{37}{136}, \frac{11}{34}, \frac{11}{34}, -\frac{15}{68}, \frac{9}{68}, \frac{7}{136}, \frac{7}{136}, -\frac{15}{68}, \frac{3}{8})$ $+\frac{1}{17}\sqrt{111}e^2 \otimes e_4 + \frac{1}{68}\sqrt{2590}e^3 \otimes e_8$	{125789, 12789, 134569, 13469, 2568, 268, 3457, 347, 125789, 12789, 134569, 13469, 2568, 268, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:131	$0, 0, 0, 0, 0, \frac{1}{136}\sqrt{2442}e^{12}, \frac{1}{136}\sqrt{2442}e^{13}, \frac{1}{68}\sqrt{814}e^{16},$ $\frac{1}{136}\sqrt{814}e^{26} + \frac{1}{136}\sqrt{4070}e^{37}$	$(-\frac{37}{136}, \frac{11}{34}, \frac{11}{34}, -\frac{15}{68}, \frac{9}{68}, \frac{7}{136}, \frac{7}{136}, -\frac{15}{68}, \frac{3}{8})$ $+\frac{1}{17}\sqrt{111}e^2 \otimes e_4 + \frac{1}{68}\sqrt{2590}e^3 \otimes e_8$	{125789, 12789, 134569, 13469, 2568, 268, 3457, 347, 125789, 12789, 134569, 13469, 2568, 268, 3457, 347}
942:131	$0, 0, 0, 0, 0, -\frac{2}{963}\sqrt{3102}e^{12}, \frac{2}{963}\sqrt{29986}e^{13}, \frac{4}{963}\sqrt{7285}e^{16},$ $\frac{2}{963}\sqrt{1410}e^{26} + \frac{2}{963}\sqrt{60818}e^{37}$	$(-\frac{188}{963}, \frac{134}{963}, \frac{134}{963}, \frac{152}{321}, \frac{110}{963}, -\frac{6}{107}, -\frac{6}{107}, -\frac{242}{963}, \frac{80}{963})$ $+\frac{4}{963}\sqrt{16262}e^4 \otimes e_9 + \frac{52}{963}\sqrt{141}e^3 \otimes e_8$	{123569, 12369, 15789, 1789, 23457, 2347, 4568, 468, 123569, 12369, 15789, 1789, 23457, 2347, 4568, 468}
942:131	$0, 0, 0, 0, 0, \frac{2}{963}\sqrt{3102}e^{12}, \frac{2}{963}\sqrt{29986}e^{13}, \frac{4}{963}\sqrt{7285}e^{16},$ $\frac{2}{963}\sqrt{1410}e^{26} + \frac{2}{963}\sqrt{60818}e^{37}$	$(-\frac{188}{963}, \frac{134}{963}, \frac{134}{963}, \frac{152}{321}, \frac{110}{963}, -\frac{6}{107}, -\frac{6}{107}, -\frac{242}{963}, \frac{80}{963})$ $+\frac{4}{963}\sqrt{16262}e^4 \otimes e_9 + \frac{52}{963}\sqrt{141}e^3 \otimes e_8$	{123569, 12369, 15789, 1789, 23457, 2347, 4568, 468, 123569, 12369, 15789, 1789, 23457, 2347, 4568, 468}
942:131	$0, 0, 0, 0, 0, -\frac{7}{447}\sqrt{770}e^{12}, \frac{14}{447}\sqrt{110}e^{13}, \frac{14}{447}\sqrt{165}e^{16},$ $\frac{7}{447}\sqrt{330}e^{26} + \frac{14}{447}\sqrt{165}e^{37}$	$(\frac{88}{447}, -\frac{17}{149}, -\frac{17}{149}, \frac{77}{149}, -\frac{157}{447}, \frac{37}{447}, \frac{37}{447}, \frac{125}{447}, -\frac{14}{447})$ $+\frac{14}{447}\sqrt{430}e^4 \otimes e_9 + \frac{28}{149}\sqrt{15}e^1 \otimes e_5$	{12389, 12789, 1369, 1679, 2345678, 24568, 3457, 45, 12389, 12789, 1369, 1679, 2345678, 24568, 3457, 45}
942:131	$0, 0, 0, 0, 0, \frac{7}{447}\sqrt{770}e^{12}, \frac{14}{447}\sqrt{110}e^{13}, \frac{14}{447}\sqrt{165}e^{16},$ $\frac{7}{447}\sqrt{330}e^{26} + \frac{14}{447}\sqrt{165}e^{37}$	$(\frac{88}{447}, -\frac{17}{149}, -\frac{17}{149}, \frac{77}{149}, -\frac{157}{447}, \frac{37}{447}, \frac{37}{447}, \frac{125}{447}, -\frac{14}{447})$ $+\frac{14}{447}\sqrt{430}e^4 \otimes e_9 + \frac{28}{149}\sqrt{15}e^1 \otimes e_5$	{12389, 12789, 1369, 1679, 2345678, 24568, 3457, 45, 12389, 12789, 1369, 1679, 2345678, 24568, 3457, 45}
942:131	$0, 0, 0, 0, 0, -\frac{1}{428}\sqrt{3930}e^{12}, \frac{1}{428}\sqrt{37990}e^{13}, \frac{1}{214}\sqrt{7598}e^{16},$ $\frac{1}{428}\sqrt{19126}e^{26} + \frac{1}{428}\sqrt{53186}e^{37}$	$(-\frac{73}{428}, \frac{47}{214}, \frac{47}{214}, \frac{105}{214}, -\frac{42}{107}, \frac{21}{428}, \frac{21}{428}, -\frac{13}{107}, \frac{115}{428})$ $+\frac{1}{214}\sqrt{28558}e^3 \otimes e_5 + \frac{2}{107}\sqrt{1310}e^4 \otimes e_8$	{123469, 1245679, 1389, 15789, 2347, 245, 3678, 568, 123469, 1245679, 1389, 15789, 2347, 245, 3678, 568}
942:131	$0, 0, 0, 0, 0, \frac{1}{428}\sqrt{3930}e^{12}, \frac{1}{428}\sqrt{37990}e^{13}, \frac{1}{214}\sqrt{7598}e^{16},$ $\frac{1}{428}\sqrt{19126}e^{26} + \frac{1}{428}\sqrt{53186}e^{37}$	$(-\frac{73}{428}, \frac{47}{214}, \frac{47}{214}, \frac{105}{214}, -\frac{42}{107}, \frac{21}{428}, \frac{21}{428}, -\frac{13}{107}, \frac{115}{428})$ $+\frac{1}{214}\sqrt{28558}e^3 \otimes e_5 + \frac{2}{107}\sqrt{1310}e^4 \otimes e_8$	{123469, 1245679, 1389, 15789, 2347, 245, 3678, 568, 123469, 1245679, 1389, 15789, 2347, 245, 3678, 568}
942:131	$0, 0, 0, 0, 0, -\frac{1}{89}\sqrt{1870}e^{12}, \frac{1}{89}\sqrt{2090}e^{13}, \frac{12}{89}\sqrt{55}e^{16},$ $\frac{1}{89}\sqrt{2090}e^{26} + \frac{1}{89}\sqrt{1870}e^{37}$	$(-\frac{19}{89}, \frac{17}{89}, \frac{17}{89}, \frac{1}{89}, \frac{16}{89}, -\frac{2}{89}, -\frac{2}{89}, -\frac{21}{89}, \frac{15}{89})$ $+\frac{2}{89}\sqrt{4015}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 235689, 23689, 256789, 26789, 3459, 349, 4579, 479, 123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 235689, 23689, 256789, 26789, 3459, 349, 4579, 479}
942:131	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{1870}e^{12}, \frac{1}{89}\sqrt{2090}e^{13}, \frac{12}{89}\sqrt{55}e^{16},$ $\frac{1}{89}\sqrt{2090}e^{26} + \frac{1}{89}\sqrt{1870}e^{37}$	$(-\frac{19}{89}, \frac{17}{89}, \frac{17}{89}, \frac{1}{89}, \frac{16}{89}, -\frac{2}{89}, -\frac{2}{89}, -\frac{21}{89}, \frac{15}{89})$ $+\frac{2}{89}\sqrt{4015}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 235689, 23689, 256789, 26789, 3459, 349, 4579, 479, 123578, 12378, 1258, 128, 134567, 13467, 1456, 146, 235689, 23689, 256789, 26789, 3459, 349, 4579, 479}
942:131	$0, 0, 0, 0, 0, -\frac{1}{36}\sqrt{170}e^{12}, \frac{1}{12}\sqrt{102}e^{13}, \frac{1}{18}\sqrt{34}e^{16},$ $\frac{1}{36}\sqrt{102}e^{26} + \frac{1}{36}\sqrt{34}e^{37}$	$(-\frac{1}{12}, \frac{5}{18}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{7}{36}, \frac{7}{36}, \frac{1}{9}, \frac{17}{36})$ $+\frac{1}{18}\sqrt{510}e^3 \otimes e_4$	{1235689, 123689, 12456789, 1246789, 1359, 139, 14579, 1479, 23578, 2378, 2458, 248, 3567, 367, 456, 46, 1235689, 123689, 12456789, 1246789, 1359, 139, 14579, 1479, 23578, 2378, 2458, 248, 3567, 367, 456, 46}
942:131	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{170}e^{12}, \frac{1}{12}\sqrt{102}e^{13}, \frac{1}{18}\sqrt{34}e^{16},$ $\frac{1}{36}\sqrt{102}e^{26} + \frac{1}{36}\sqrt{34}e^{37}$	$(-\frac{1}{12}, \frac{5}{18}, \frac{5}{18}, -\frac{2}{3}, \frac{1}{6}, \frac{7}{36}, \frac{7}{36}, \frac{1}{9}, \frac{17}{36})$ $+\frac{1}{18}\sqrt{510}e^3 \otimes e_4$	{1235689, 123689, 12456789, 1246789, 1359, 139, 14579, 1479, 23578, 2378, 2458, 248, 3567, 367, 456, 46, 1235689, 123689, 12456789, 1246789, 1359, 139, 14579, 1479, 23578, 2378, 2458, 248, 3567, 367, 456, 46}
942:131	$0, 0, 0, 0, 0, -\frac{1}{19}\sqrt{55}e^{12}, \frac{1}{57}\sqrt{627}e^{13}, \frac{2}{57}\sqrt{66}e^{16},$ $\frac{1}{57}\sqrt{627}e^{26} + \frac{1}{19}\sqrt{55}e^{37}$	$(-\frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{6}{19}, -\frac{6}{19}, \frac{3}{19}, \frac{3}{19}, \frac{1}{19}, \frac{8}{19})$ $+\frac{5}{57}\sqrt{66}e^2 \otimes e_4 + \frac{5}{57}\sqrt{66}e^3 \otimes e_5$	{1239, 12579, 134689, 1456789, 2367, 256, 3478, 458, 1239, 12579, 134689, 1456789, 2367, 256, 3478, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:131	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{55}e^{12}, \frac{1}{57}\sqrt{627}e^{13}, \frac{2}{57}\sqrt{66}e^{16},$ $\frac{1}{57}\sqrt{627}e^{26} + \frac{1}{19}\sqrt{55}e^{37}$	$(-\frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{6}{19}, -\frac{6}{19}, \frac{3}{19}, \frac{3}{19}, \frac{1}{19}, \frac{8}{19})$ $+\frac{5}{57}\sqrt{66}e^2 \otimes e_4 + \frac{5}{57}\sqrt{66}e^3 \otimes e_5$	{1239, 12579, 134689, 1456789, 2367, 256, 3478, 458, 1239, 12579, 134689, 1456789, 2367, 256, 3478, 458}
942:131	$0, 0, 0, 0, 0, -\frac{1}{428}\sqrt{53186}e^{12}, \frac{1}{428}\sqrt{19126}e^{13}, \frac{1}{214}\sqrt{7598}e^{16},$ $\frac{1}{428}\sqrt{37990}e^{26} + \frac{1}{428}\sqrt{3930}e^{37}$	$(-\frac{73}{428}, \frac{47}{214}, \frac{47}{214}, \frac{105}{214}, -\frac{42}{107}, \frac{21}{428}, \frac{21}{428}, -\frac{13}{107}, \frac{115}{428})$ $+\frac{1}{214}\sqrt{28558}e^2 \otimes e_5 + \frac{2}{107}\sqrt{1310}e^4 \otimes e_8$	{123789, 1289, 1345679, 14569, 2368, 2678, 345, 457, 123789, 1289, 1345679, 14569, 2368, 2678, 345, 457}
942:131	$0, 0, 0, 0, 0, \frac{1}{428}\sqrt{53186}e^{12}, \frac{1}{428}\sqrt{19126}e^{13}, \frac{1}{214}\sqrt{7598}e^{16},$ $\frac{1}{428}\sqrt{37990}e^{26} + \frac{1}{428}\sqrt{3930}e^{37}$	$(-\frac{73}{428}, \frac{47}{214}, \frac{47}{214}, \frac{105}{214}, -\frac{42}{107}, \frac{21}{428}, \frac{21}{428}, -\frac{13}{107}, \frac{115}{428})$ $+\frac{1}{214}\sqrt{28558}e^2 \otimes e_5 + \frac{2}{107}\sqrt{1310}e^4 \otimes e_8$	{123789, 1289, 1345679, 14569, 2368, 2678, 345, 457, 123789, 1289, 1345679, 14569, 2368, 2678, 345, 457}
942:131	$0, 0, 0, 0, 0, -\frac{3}{251}\sqrt{134}e^{12}, \frac{1}{251}\sqrt{11658}e^{13}, \frac{2}{251}\sqrt{3886}e^{16},$ $\frac{67}{251}\sqrt{2}e^{26} + \frac{1}{251}\sqrt{19430}e^{37}$	$(-\frac{67}{251}, \frac{68}{251}, \frac{68}{251}, \frac{97}{251}, -\frac{37}{251}, \frac{1}{251}, \frac{1}{251}, -\frac{66}{251}, \frac{69}{251})$ $+\frac{134}{251}e^4 \otimes e_5 + \frac{2}{251}\sqrt{10318}e^3 \otimes e_8$	{123469, 123569, 14789, 15789, 2347, 2357, 468, 568, 123469, 123569, 14789, 15789, 2347, 2357, 468, 568}
942:131	$0, 0, 0, 0, 0, \frac{3}{251}\sqrt{134}e^{12}, \frac{1}{251}\sqrt{11658}e^{13}, \frac{2}{251}\sqrt{3886}e^{16},$ $\frac{67}{251}\sqrt{2}e^{26} + \frac{1}{251}\sqrt{19430}e^{37}$	$(-\frac{67}{251}, \frac{68}{251}, \frac{68}{251}, \frac{97}{251}, -\frac{37}{251}, \frac{1}{251}, \frac{1}{251}, -\frac{66}{251}, \frac{69}{251})$ $+\frac{134}{251}e^4 \otimes e_5 + \frac{2}{251}\sqrt{10318}e^3 \otimes e_8$	{123469, 123569, 14789, 15789, 2347, 2357, 468, 568, 123469, 123569, 14789, 15789, 2347, 2357, 468, 568}
942:131	$0, 0, 0, 0, 0, -\frac{110}{677}\sqrt{2}e^{12}, \frac{110}{677}\sqrt{2}e^{13}, \frac{60}{677}\sqrt{5}e^{16},$ $\frac{10}{677}\sqrt{366}e^{26} + \frac{10}{677}\sqrt{546}e^{37}$	$(-\frac{100}{677}, \frac{90}{677}, \frac{90}{677}, -\frac{110}{677}, \frac{280}{677}, -\frac{10}{677}, -\frac{10}{677}, -\frac{110}{677}, \frac{80}{677})$ $+\frac{20}{677}\sqrt{214}e^5 \otimes e_9 + \frac{20}{677}\sqrt{221}e^3 \otimes e_8 + \frac{80}{677}\sqrt{11}e^2 \otimes e_4$	{12789, 13469, 2568, 3457, 12789, 13469, 2568, 3457}
942:131	$0, 0, 0, 0, 0, \frac{110}{677}\sqrt{2}e^{12}, \frac{110}{677}\sqrt{2}e^{13}, \frac{60}{677}\sqrt{5}e^{16},$ $\frac{10}{677}\sqrt{366}e^{26} + \frac{10}{677}\sqrt{546}e^{37}$	$(-\frac{100}{677}, \frac{90}{677}, \frac{90}{677}, -\frac{110}{677}, \frac{280}{677}, -\frac{10}{677}, -\frac{10}{677}, -\frac{110}{677}, \frac{80}{677})$ $+\frac{20}{677}\sqrt{214}e^5 \otimes e_9 + \frac{20}{677}\sqrt{221}e^3 \otimes e_8 + \frac{80}{677}\sqrt{11}e^2 \otimes e_4$	{12789, 13469, 2568, 3457, 12789, 13469, 2568, 3457}
942:131	$0, 0, 0, 0, 0, -\frac{2}{89}\sqrt{355}e^{12}, \frac{2}{89}\sqrt{213}e^{13}, \frac{4}{89}\sqrt{71}e^{16},$ $\frac{2}{89}\sqrt{213}e^{26} + \frac{2}{89}\sqrt{355}e^{37}$	$(\frac{6}{89}, \frac{10}{89}, \frac{10}{89}, 1, -\frac{53}{89}, \frac{16}{89}, \frac{16}{89}, \frac{22}{89}, \frac{26}{89})$ $+\frac{142}{89}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 234678, 235678, 2468, 2568, 347, 357, 4, 5, 123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 234678, 235678, 2468, 2568, 347, 357, 4, 5}
942:131	$0, 0, 0, 0, 0, \frac{2}{89}\sqrt{355}e^{12}, \frac{2}{89}\sqrt{213}e^{13}, \frac{4}{89}\sqrt{71}e^{16},$ $\frac{2}{89}\sqrt{213}e^{26} + \frac{2}{89}\sqrt{355}e^{37}$	$(\frac{6}{89}, \frac{10}{89}, \frac{10}{89}, 1, -\frac{53}{89}, \frac{16}{89}, \frac{16}{89}, \frac{22}{89}, \frac{26}{89})$ $+\frac{142}{89}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 234678, 235678, 2468, 2568, 347, 357, 4, 5, 123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 234678, 235678, 2468, 2568, 347, 357, 4, 5}
942:131	$0, 0, 0, 0, 0, -\frac{1}{123}\sqrt{1370}e^{12}, \frac{4}{123}\sqrt{137}e^{13}, \frac{2}{123}\sqrt{411}e^{16},$ $\frac{1}{123}\sqrt{9042}e^{26} + \frac{2}{123}\sqrt{2055}e^{37}$	$(\frac{16}{123}, -\frac{5}{41}, -\frac{5}{41}, 1, \frac{23}{123}, \frac{1}{123}, \frac{1}{123}, \frac{17}{123}, -\frac{14}{123})$ $+\frac{10}{123}\sqrt{274}e^4 \otimes e_9$	{12359, 1239, 12579, 1279, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 34578, 3478, 458, 48, 12359, 1239, 12579, 1279, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 34578, 3478, 458, 48}
942:131	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{1370}e^{12}, \frac{4}{123}\sqrt{137}e^{13}, \frac{2}{123}\sqrt{411}e^{16},$ $\frac{1}{123}\sqrt{9042}e^{26} + \frac{2}{123}\sqrt{2055}e^{37}$	$(\frac{16}{123}, -\frac{5}{41}, -\frac{5}{41}, 1, \frac{23}{123}, \frac{1}{123}, \frac{1}{123}, \frac{17}{123}, -\frac{14}{123})$ $+\frac{10}{123}\sqrt{274}e^4 \otimes e_9$	{12359, 1239, 12579, 1279, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 34578, 3478, 458, 48, 12359, 1239, 12579, 1279, 135689, 13689, 156789, 16789, 234567, 23467, 2456, 246, 34578, 3478, 458, 48}
942:133	$0, 0, 0, 0, 0, \frac{10}{1747}\sqrt{1209}e^{12}, \frac{5}{1747}\sqrt{26474}e^{13}, \frac{70}{1747}\sqrt{31}e^{26},$ $\frac{9}{1747}\sqrt{6262}e^{16} + \frac{20}{1747}\sqrt{2387}e^{37}$	$(-\frac{55}{1747}, \frac{173}{1747}, \frac{59}{1747}, \frac{838}{1747}, -\frac{716}{1747}, \frac{118}{1747}, \frac{4}{1747}, \frac{291}{1747}, \frac{63}{1747})$ $+\frac{15}{1747}\sqrt{6262}e^3 \otimes e_5 + \frac{5}{1747}\sqrt{39990}e^4 \otimes e_9$	{12369, 125679, 34678, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:133	$0, 0, 0, 0, 0, \frac{6}{1211}\sqrt{1687e^{12}}, \frac{2}{1211}\sqrt{62178e^{13}}, \frac{2}{1211}\sqrt{57117e^{26}},$ $\frac{20}{1211}\sqrt{482e^{16}} + \frac{1}{1211}\sqrt{258834e^{37}}$	$(\frac{148}{1211}, -\frac{30}{173}, -\frac{31}{1211}, \frac{327}{1211}, \frac{138}{1211}, -\frac{62}{1211}, \frac{117}{1211}, -\frac{272}{1211}, \frac{86}{1211})$ $+ \frac{2}{1211}\sqrt{106522e^3} \otimes e_8 + \frac{3}{1211}\sqrt{10122e^4} \otimes e_9$	{123569, 12369, 4568, 468}
942:133	$0, 0, 0, 0, 0, \frac{34}{3137}\sqrt{435e^{12}}, \frac{34}{3137}\sqrt{285e^{13}}, \frac{34}{3137}\sqrt{798e^{26}},$ $\frac{68}{3137}\sqrt{29e^{16}} + \frac{102}{3137}\sqrt{95e^{37}}$	$(-\frac{289}{3137}, \frac{357}{3137}, \frac{34}{3137}, -\frac{544}{3137}, \frac{1003}{3137}, \frac{68}{3137}, -\frac{255}{3137}, \frac{425}{3137}, -\frac{221}{3137})$ $+ \frac{136}{3137}\sqrt{43e^5} \otimes e_8 + \frac{170}{3137}\sqrt{51e^2} \otimes e_9 + \frac{34}{3137}\sqrt{859e^3} \otimes e_4$	{13689, 146789, 23567, 2456}
942:133	$0, 0, 0, 0, 0, \frac{34}{3137}\sqrt{435e^{12}}, \frac{34}{3137}\sqrt{285e^{13}}, \frac{34}{3137}\sqrt{798e^{26}},$ $\frac{68}{3137}\sqrt{29e^{16}} + \frac{102}{3137}\sqrt{95e^{37}}$	$(-\frac{289}{3137}, \frac{357}{3137}, \frac{34}{3137}, -\frac{544}{3137}, \frac{1003}{3137}, \frac{68}{3137}, -\frac{255}{3137}, \frac{425}{3137}, -\frac{221}{3137})$ $+ \frac{136}{3137}\sqrt{43e^5} \otimes e_8 - \frac{170}{3137}\sqrt{51e^2} \otimes e_9 + \frac{34}{3137}\sqrt{859e^3} \otimes e_4$	{13689, 146789, 23567, 2456}
942:133	$0, 0, 0, 0, 0, \frac{3}{289}\sqrt{5962e^{12}}, \frac{4}{289}\sqrt{271e^{13}}, \frac{4}{289}\sqrt{3523e^{26}},$ $\frac{1}{289}\sqrt{12466e^{16}} + \frac{5}{289}\sqrt{542e^{37}}$	$(-\frac{16}{289}, \frac{86}{289}, \frac{35}{289}, -\frac{185}{289}, \frac{52}{289}, \frac{70}{289}, \frac{19}{289}, \frac{156}{289}, \frac{54}{289})$ $+ \frac{1}{289}\sqrt{128454e^2} \otimes e_4$	{123578, 12378, 1258, 128, 3459, 349, 4579, 479}
942:133	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{17e^{12}}, \frac{8}{287}\sqrt{19e^{13}}, \frac{4}{287}\sqrt{114e^{26}},$ $\frac{4}{287}\sqrt{59e^{16}} + \frac{4}{287}\sqrt{114e^{37}}$	$(-\frac{4}{287}, -\frac{4}{287}, -\frac{4}{287}, \frac{26}{287}, \frac{34}{287}, -\frac{8}{287}, -\frac{8}{287}, -\frac{12}{287}, -\frac{12}{287})$ $+ \frac{4}{287}\sqrt{97e^2} \otimes e_9 + \frac{8}{287}\sqrt{39e^3} \otimes e_8 + \frac{8}{287}e^5 \otimes e_4$	{146789, 156789, 23467, 23567}
942:133	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{17e^{12}}, \frac{8}{287}\sqrt{19e^{13}}, \frac{4}{287}\sqrt{114e^{26}},$ $\frac{4}{287}\sqrt{59e^{16}} + \frac{4}{287}\sqrt{114e^{37}}$	$(-\frac{4}{287}, -\frac{4}{287}, -\frac{4}{287}, \frac{26}{287}, \frac{34}{287}, -\frac{8}{287}, -\frac{8}{287}, -\frac{12}{287}, -\frac{12}{287})$ $- \frac{4}{287}\sqrt{97e^2} \otimes e_9 + \frac{8}{287}\sqrt{39e^3} \otimes e_8 + \frac{8}{287}e^5 \otimes e_4$	{146789, 156789, 23467, 23567}
942:133	$0, 0, 0, 0, 0, \frac{51}{631}\sqrt{10e^{12}}, \frac{17}{631}\sqrt{410e^{13}}, \frac{17}{631}\sqrt{298e^{26}},$ $\frac{34}{631}\sqrt{79e^{16}} + \frac{34}{631}\sqrt{95e^{37}}$	$(\frac{68}{631}, -\frac{34}{631}, \frac{17}{631}, \frac{289}{631}, -\frac{272}{631}, \frac{34}{631}, \frac{85}{631}, 0, \frac{102}{631})$ $+ \frac{102}{631}\sqrt{19e^3} \otimes e_5 + \frac{17}{631}\sqrt{438e^4} \otimes e_8$	{123469, 1245679, 3678, 568}
942:133	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{934557e^{12}}, \frac{2}{3769}\sqrt{109766e^{13}}, \frac{2}{3769}\sqrt{407371e^{26}},$ $\frac{2}{3769}\sqrt{381089e^{16}} + \frac{4}{3769}\sqrt{3865e^{37}}$	$(\frac{284}{3769}, \frac{338}{3769}, \frac{311}{3769}, -\frac{1262}{3769}, -\frac{1208}{3769}, \frac{622}{3769}, \frac{595}{3769}, \frac{960}{3769}, \frac{906}{3769})$ $+ \frac{2}{3769}\sqrt{1268493e^2} \otimes e_5 + \frac{2}{3769}\sqrt{1310235e^1} \otimes e_4$	{13568, 15678, 234679, 2469}
942:133	$0, 0, 0, 0, 0, \frac{1}{301}\sqrt{2730e^{12}}, \frac{1}{301}\sqrt{18330e^{13}}, \frac{20}{301}\sqrt{39e^{26}},$ $\frac{1}{301}\sqrt{13130e^{16}} + \frac{20}{301}\sqrt{39e^{37}}$	$(\frac{59}{301}, -\frac{9}{43}, -\frac{2}{301}, -\frac{6}{301}, \frac{36}{301}, -\frac{4}{301}, \frac{57}{301}, -\frac{67}{301}, \frac{55}{301})$ $+ \frac{1}{301}\sqrt{28990e^3} \otimes e_8 + \frac{1}{301}\sqrt{1365e^1} \otimes e_4$	{123569, 12369, 4568, 468}
942:133	$0, 0, 0, 0, 0, \frac{4}{4129}\sqrt{171795e^{12}}, \frac{20}{4129}\sqrt{881e^{13}}, \frac{2}{4129}\sqrt{270467e^{26}},$ $\frac{8}{4129}\sqrt{74885e^{16}} + \frac{32}{4129}\sqrt{881e^{37}}$	$(\frac{200}{4129}, -\frac{34}{4129}, \frac{83}{4129}, \frac{2128}{4129}, -\frac{1562}{4129}, \frac{166}{4129}, \frac{283}{4129}, \frac{132}{4129}, \frac{366}{4129})$ $+ \frac{2}{4129}\sqrt{1488009e^4} \otimes e_9 + \frac{2}{4129}\sqrt{1762881e^1} \otimes e_5$	{1239, 1279, 34578, 458}
942:133	$0, 0, 0, 0, 0, \frac{3}{1421}\sqrt{17630e^{12}}, \frac{1}{1421}\sqrt{483062e^{13}}, \frac{1}{1421}\sqrt{1886410e^{26}},$ $\frac{4}{1421}\sqrt{40549e^{16}} + \frac{4}{1421}\sqrt{33497e^{37}}$	$(\frac{274}{1421}, -\frac{44}{203}, -\frac{17}{1421}, 1, \frac{272}{1421}, -\frac{34}{1421}, \frac{257}{1421}, -\frac{342}{1421}, \frac{240}{1421})$ $+ \frac{1}{1421}\sqrt{4051374e^4} \otimes e_8$	{135689, 13689, 156789, 16789, 234567, 23467, 2456, 246}
942:133	$0, 0, 0, 0, 0, \frac{4}{283}\sqrt{17e^{12}}, \frac{8}{283}\sqrt{19e^{13}}, \frac{4}{283}\sqrt{114e^{26}},$ $\frac{4}{283}\sqrt{59e^{16}} + \frac{4}{283}\sqrt{114e^{37}}$	$(-\frac{4}{283}, -\frac{4}{283}, -\frac{4}{283}, \frac{30}{283}, \frac{30}{283}, -\frac{8}{283}, -\frac{8}{283}, -\frac{12}{283}, -\frac{12}{283})$ $+ \frac{4}{283}\sqrt{97e^2} \otimes e_9 + \frac{8}{283}\sqrt{39e^3} \otimes e_8$	{1456789, 146789, 16789, 234567, 23467, 2367}
942:133	$0, 0, 0, 0, 0, \frac{4}{283}\sqrt{17e^{12}}, \frac{8}{283}\sqrt{19e^{13}}, \frac{4}{283}\sqrt{114e^{26}},$ $\frac{4}{283}\sqrt{59e^{16}} + \frac{4}{283}\sqrt{114e^{37}}$	$(-\frac{4}{283}, -\frac{4}{283}, -\frac{4}{283}, \frac{30}{283}, \frac{30}{283}, -\frac{8}{283}, -\frac{8}{283}, -\frac{12}{283}, -\frac{12}{283})$ $- \frac{4}{283}\sqrt{97e^2} \otimes e_9 + \frac{8}{283}\sqrt{39e^3} \otimes e_8$	{1456789, 146789, 16789, 234567, 23467, 2367}
942:133	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{10e^{12}}, \frac{4}{33}\sqrt{15e^{13}}, \frac{4}{33}\sqrt{15e^{26}},$ $\frac{1}{33}\sqrt{210e^{16}} + \frac{1}{11}\sqrt{30e^{37}}$	$(0, \frac{2}{11}, \frac{1}{11}, -\frac{3}{11}, -\frac{4}{11}, \frac{2}{11}, \frac{1}{11}, \frac{4}{11}, \frac{2}{11})$ $+ \frac{1}{33}\sqrt{390e^2} \otimes e_4 + \frac{4}{33}\sqrt{30e^3} \otimes e_5$	{134689, 1456789, 2367, 256}
942:133	$0, 0, 0, 0, 0, \frac{23}{3101}\sqrt{210e^{12}}, \frac{23}{3101}\sqrt{2202e^{13}}, \frac{92}{3101}\sqrt{114e^{26}},$ $\frac{23}{3101}\sqrt{1202e^{16}} + \frac{276}{3101}\sqrt{15e^{37}}$	$(\frac{391}{3101}, -\frac{69}{443}, -\frac{46}{3101}, -\frac{138}{3101}, \frac{828}{3101}, -\frac{92}{3101}, \frac{345}{3101}, -\frac{575}{3101}, \frac{299}{3101})$ $+ \frac{23}{3101}\sqrt{3622e^3} \otimes e_8 + \frac{276}{3101}\sqrt{7e^5} \otimes e_9 + \frac{46}{3101}\sqrt{231e^1} \otimes e_4$	{12369, 4568}
942:133	$0, 0, 0, 0, 0, \frac{3}{469}\sqrt{1582e^{12}}, \frac{1}{469}\sqrt{56274e^{13}}, \frac{2}{469}\sqrt{12882e^{26}},$ $\frac{1}{469}\sqrt{48590e^{16}} + \frac{2}{469}\sqrt{12882e^{37}}$	$(\frac{89}{469}, -\frac{15}{67}, -\frac{8}{469}, \frac{60}{469}, \frac{60}{469}, -\frac{16}{469}, \frac{81}{469}, -\frac{121}{469}, \frac{73}{469})$ $+ \frac{1}{469}\sqrt{92434e^3} \otimes e_8$	{1234569, 123469, 12369, 4568, 468, 68}
942:133	$0, 0, 0, 0, 0, \frac{1}{1553}\sqrt{762e^{12}}, \frac{2}{1553}\sqrt{35814e^{13}}, \frac{8}{1553}\sqrt{2794e^{26}},$ $\frac{1}{1553}\sqrt{141986e^{16}} + \frac{1}{1553}\sqrt{143510e^{37}}$	$(\frac{148}{1553}, -\frac{134}{1553}, \frac{7}{1553}, -\frac{261}{1553}, \frac{156}{1553}, \frac{14}{1553}, \frac{155}{1553}, -\frac{120}{1553}, \frac{162}{1553})$ $+ \frac{14}{1553}\sqrt{1270e^3} \otimes e_8 + \frac{1}{1553}\sqrt{105918e^2} \otimes e_4$	{1456789, 146789, 23567, 2367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:133	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29}e^{12}, \frac{10}{169}\sqrt{19}e^{13}, \frac{60}{169}e^{26},$ $\frac{10}{169}\sqrt{2}e^{16} + \frac{10}{169}\sqrt{57}e^{37}$	$(-\frac{25}{169}, \frac{41}{169}, \frac{8}{169}, -\frac{42}{169}, \frac{21}{169}, \frac{16}{169}, -\frac{17}{169}, \frac{57}{169}, -\frac{9}{169})$ $+\frac{10}{169}\sqrt{85}e^2 \otimes e_9 + \frac{30}{169}\sqrt{7}e^3 \otimes e_4$	{135689, 13689, 1456789, 146789, 23567, 2367, 2456, 246}
942:133	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{29}e^{12}, \frac{10}{169}\sqrt{19}e^{13}, \frac{60}{169}e^{26},$ $\frac{10}{169}\sqrt{2}e^{16} + \frac{10}{169}\sqrt{57}e^{37}$	$(-\frac{25}{169}, \frac{41}{169}, \frac{8}{169}, -\frac{42}{169}, \frac{21}{169}, \frac{16}{169}, -\frac{17}{169}, \frac{57}{169}, -\frac{9}{169})$ $-\frac{10}{169}\sqrt{85}e^2 \otimes e_9 + \frac{30}{169}\sqrt{7}e^3 \otimes e_4$	{135689, 13689, 1456789, 146789, 23567, 2367, 2456, 246}
942:133	$0, 0, 0, 0, 0, \frac{60}{703}\sqrt{22}e^{12}, \frac{20}{703}\sqrt{902}e^{13}, \frac{10}{703}\sqrt{1177}e^{26},$ $\frac{10}{703}\sqrt{19}e^{16} + \frac{40}{703}\sqrt{209}e^{37}$	$(\frac{65}{703}, \frac{77}{703}, \frac{71}{703}, -\frac{479}{703}, \frac{112}{703}, \frac{142}{703}, \frac{136}{703}, \frac{219}{703}, \frac{207}{703})$ $+\frac{10}{703}\sqrt{6501}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 35678, 3678, 4568, 468}
942:133	$0, 0, 0, 0, 0, \frac{2}{1143}\sqrt{81213}e^{12}, \frac{2}{1143}\sqrt{22791}e^{13}, \frac{2}{381}\sqrt{6955}e^{26},$ $\frac{2}{1143}\sqrt{33063}e^{16} + \frac{2}{381}\sqrt{5885}e^{37}$	$(-\frac{142}{1143}, \frac{80}{381}, \frac{49}{1143}, \frac{598}{1143}, -\frac{134}{381}, \frac{98}{1143}, -\frac{31}{381}, \frac{338}{1143}, -\frac{44}{1143})$ $+\frac{2}{1143}\sqrt{146055}e^4 \otimes e_9 + \frac{2}{1143}\sqrt{174945}e^2 \otimes e_5$	{1345678, 14568, 2369, 2679}
942:133	$0, 0, 0, 0, 0, \frac{2}{3713}\sqrt{198591}e^{12}, \frac{8}{3713}\sqrt{1249}e^{13}, \frac{8}{3713}\sqrt{42466}e^{26},$ $\frac{10}{3713}\sqrt{17486}e^{16} + \frac{2}{3713}\sqrt{766886}e^{37}$	$(-\frac{32}{3713}, -\frac{242}{3713}, -\frac{137}{3713}, \frac{1982}{3713}, \frac{2192}{3713}, -\frac{274}{3713}, -\frac{169}{3713}, -\frac{516}{3713}, -\frac{306}{3713})$ $+\frac{2}{3713}\sqrt{2162019}e^5 \otimes e_9 + \frac{78}{3713}\sqrt{1249}e^4 \otimes e_8$	{135678, 1568, 23469, 24679}
942:133	$0, 0, 0, 0, 0, \frac{12}{4721}\sqrt{25922}e^{12}, \frac{2}{4721}\sqrt{37886}e^{13}, \frac{4}{4721}\sqrt{437683}e^{26},$ $\frac{2}{4721}\sqrt{545359}e^{16} + \frac{10}{4721}\sqrt{13958}e^{37}$	$(\frac{76}{4721}, \frac{154}{4721}, \frac{115}{4721}, \frac{2378}{4721}, -\frac{1840}{4721}, \frac{230}{4721}, \frac{191}{4721}, \frac{384}{4721}, \frac{306}{4721})$ $+\frac{2}{4721}\sqrt{2335971}e^2 \otimes e_5 + \frac{50}{4721}\sqrt{2991}e^4 \otimes e_8$	{135689, 156789, 23467, 246}
942:133	$0, 0, 0, 0, 0, \frac{8}{231}\sqrt{138}e^{12}, \frac{4}{231}\sqrt{506}e^{13}, \frac{4}{231}\sqrt{690}e^{26},$ $\frac{8}{231}\sqrt{23}e^{16} + \frac{4}{231}\sqrt{690}e^{37}$	$(\frac{2}{21}, \frac{20}{231}, \frac{1}{11}, 1, -\frac{137}{231}, \frac{2}{11}, \frac{43}{231}, \frac{62}{231}, \frac{64}{231})$ $+\frac{368}{231}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 347, 357, 4, 5}
942:133	$0, 0, 0, 0, 0, \frac{2}{1475}\sqrt{32997}e^{12}, \frac{4}{1475}\sqrt{37526}e^{13}, \frac{8}{1475}\sqrt{1294}e^{26},$ $\frac{1}{1475}\sqrt{24586}e^{16} + \frac{1}{1475}\sqrt{386906}e^{37}$	$(\frac{223}{1475}, \frac{7}{1475}, \frac{23}{295}, -\frac{424}{1475}, -\frac{532}{1475}, \frac{46}{295}, \frac{338}{1475}, \frac{237}{1475}, \frac{453}{1475})$ $+\frac{1}{1475}\sqrt{772518}e^1 \otimes e_4 + \frac{1}{1475}\sqrt{912270}e^3 \otimes e_5$	{13689, 156789, 23467, 2456}
942:133	$0, 0, 0, 0, 0, \frac{2}{475}\sqrt{29877}e^{12}, \frac{1}{475}\sqrt{52826}e^{13}, \frac{4}{475}\sqrt{1299}e^{26},$ $\frac{2}{475}\sqrt{33341}e^{16} + \frac{4}{475}\sqrt{1299}e^{37}$	$(\frac{122}{475}, -\frac{32}{475}, \frac{9}{95}, -\frac{311}{475}, \frac{82}{475}, \frac{18}{95}, \frac{167}{475}, \frac{58}{475}, \frac{212}{475})$ $+\frac{1}{475}\sqrt{340338}e^1 \otimes e_4$	{1356, 136, 1567, 167, 23456789, 2346789, 245689, 24689}
942:133	$0, 0, 0, 0, 0, \frac{1}{247}\sqrt{38}e^{12}, \frac{1}{247}\sqrt{3154}e^{13}, \frac{4}{247}\sqrt{247}e^{26},$ $\frac{1}{247}\sqrt{3002}e^{16} + \frac{4}{247}\sqrt{209}e^{37}$	$(\frac{1}{13}, -\frac{1}{13}, 0, -\frac{2}{13}, \frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+\frac{2}{247}\sqrt{133}e^5 \otimes e_9 + \frac{2}{247}\sqrt{589}e^2 \otimes e_4 + \frac{7}{247}\sqrt{114}e^3 \otimes e_8$	{146789, 23567}
942:133	$0, 0, 0, 0, 0, \frac{2}{1409}\sqrt{89547}e^{12}, \frac{4}{1409}\sqrt{17281}e^{13}, \frac{10}{1409}\sqrt{1571}e^{26},$ $\frac{2}{1409}\sqrt{317342}e^{16} + \frac{1}{1409}\sqrt{1052570}e^{37}$	$(-\frac{176}{1409}, \frac{190}{1409}, \frac{7}{1409}, 1, \frac{254}{1409}, \frac{14}{1409}, -\frac{169}{1409}, \frac{204}{1409}, -\frac{162}{1409})$ $+\frac{1}{1409}\sqrt{3629010}e^4 \otimes e_9$	{134567, 13467, 1456, 146, 235689, 23689, 256789, 26789}
942:133	$0, 0, 0, 0, 0, \frac{2}{3421}\sqrt{627879}e^{12}, \frac{2}{3421}\sqrt{378377}e^{13}, \frac{28}{3421}\sqrt{2062}e^{26},$ $\frac{4}{311}\sqrt{1031}e^{16} + \frac{2}{3421}\sqrt{17527}e^{37}$	$(\frac{734}{3421}, -\frac{568}{3421}, \frac{83}{3421}, \frac{1660}{3421}, -\frac{1328}{3421}, \frac{166}{3421}, \frac{817}{3421}, -\frac{402}{3421}, \frac{900}{3421})$ $+\frac{2}{3421}\sqrt{1265037}e^4 \otimes e_8 + \frac{2}{3421}\sqrt{1815591}e^1 \otimes e_5$	{1368, 1678, 2345679, 24569}
942:133	$0, 0, 0, 0, 0, \frac{6}{1051}\sqrt{1582}e^{12}, \frac{2}{1051}\sqrt{56274}e^{13}, \frac{4}{1051}\sqrt{12882}e^{26},$ $\frac{2}{1051}\sqrt{48590}e^{16} + \frac{4}{1051}\sqrt{12882}e^{37}$	$(\frac{178}{1051}, -\frac{210}{1051}, -\frac{16}{1051}, \frac{233}{1051}, \frac{7}{1051}, -\frac{32}{1051}, \frac{162}{1051}, -\frac{242}{1051}, \frac{146}{1051})$ $+\frac{226}{1051}e^4 \otimes e_5 + \frac{2}{1051}\sqrt{92434}e^3 \otimes e_8$	{123469, 123569, 468, 568}
942:135	$0, 0, 0, 0, 0, \frac{18}{1219}\sqrt{615}e^{12}, \frac{72}{1219}\sqrt{30}e^{13},$ $\frac{36}{1219}\sqrt{285}e^{14} + \frac{18}{1219}\sqrt{498}e^{26}, \frac{90}{1219}\sqrt{15}e^{17} + \frac{18}{1219}\sqrt{771}e^{24}$	$(\frac{153}{1219}, -\frac{9}{1219}, -\frac{333}{1219}, -\frac{18}{1219}, \frac{27}{1219}, \frac{144}{53}, \frac{1219}{1219}, -\frac{180}{1219}, \frac{135}{1219}, -\frac{27}{1219})$ $+\frac{108}{1219}\sqrt{43}e^5 \otimes e_8 + \frac{18}{1219}\sqrt{1794}e^1 \otimes e_3$	{1689, 2356}
942:135	$0, 0, 0, 0, 0, \frac{138}{3869}\sqrt{15}e^{12}, \frac{92}{3869}\sqrt{257}e^{13}, \frac{230}{3869}\sqrt{26}e^{14} + \frac{1196}{3869}e^{26},$ $\frac{46}{3869}\sqrt{649}e^{17} + \frac{46}{3869}\sqrt{569}e^{24}$	$(-\frac{299}{3869}, \frac{161}{3869}, \frac{1081}{3869}, \frac{322}{3869}, -\frac{1357}{3869}, -\frac{138}{3869}, \frac{782}{3869}, \frac{23}{3869}, \frac{483}{3869})$ $+\frac{184}{3869}\sqrt{110}e^1 \otimes e_5 + \frac{46}{3869}\sqrt{1706}e^3 \otimes e_8$	{1278, 3579}
942:135	$0, 0, 0, 0, 0, \frac{6}{59}\sqrt{51}e^{12}, \frac{12}{59}\sqrt{6}e^{13}, \frac{24}{59}\sqrt{3}e^{14} + \frac{6}{59}\sqrt{6}e^{26},$ $\frac{6}{59}\sqrt{39}e^{17} + \frac{6}{59}\sqrt{39}e^{24}$	$(\frac{21}{59}, \frac{3}{59}, -\frac{33}{59}, \frac{6}{59}, \frac{9}{59}, \frac{24}{59}, -\frac{12}{59}, \frac{27}{59}, \frac{9}{59})$ $+\frac{30}{59}\sqrt{6}e^1 \otimes e_3$	{15689, 1689, 2356, 236}
942:135	$0, 0, 0, 0, 0, \frac{2}{2697}\sqrt{512297}e^{12}, \frac{8}{2697}\sqrt{43719}e^{13},$ $\frac{8}{2697}\sqrt{25783}e^{14} + \frac{2}{2697}\sqrt{199538}e^{26}, \frac{2}{2697}\sqrt{862049}e^{17} + \frac{2}{2697}\sqrt{487635}e^{24}$	$(\frac{479}{2697}, \frac{89}{899}, -\frac{157}{2697}, \frac{178}{899}, -\frac{1763}{2697}, \frac{746}{2697}, \frac{322}{2697}, \frac{1013}{2697}, \frac{267}{899})$ $+\frac{2}{2697}\sqrt{2499830}e^1 \otimes e_5$	{1278, 13689, 256, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:135	$0, 0, 0, 0, 0, \frac{14}{533}\sqrt{233}e^{12}, \frac{4}{533}\sqrt{9553}e^{13}, \frac{6}{533}\sqrt{2330}e^{14} + \frac{4}{533}\sqrt{9553}e^{26},$ $\frac{2}{533}\sqrt{7689}e^{17} + \frac{14}{533}\sqrt{233}e^{24}$	$(-\frac{147}{533}, \frac{25}{533}, \frac{9}{13}, \frac{50}{533}, \frac{7}{41}, -\frac{122}{533}, \frac{222}{533}, -\frac{97}{533}, \frac{75}{533})$ $+ \frac{2}{533}\sqrt{102986}e^3 \otimes e_8$	{1234569, 123469, 4568, 468}
942:135	$0, 0, 0, 0, 0, \frac{17}{299}\sqrt{87}e^{12}, \frac{34}{299}\sqrt{6}e^{13}, \frac{17}{299}\sqrt{237}e^{14} + \frac{136}{299}\sqrt{2}e^{26},$ $\frac{51}{299}\sqrt{11}e^{17} + \frac{255}{299}e^{24}$	$(\frac{51}{598}, \frac{34}{299}, \frac{51}{299}, \frac{68}{299}, -\frac{17}{23}, \frac{119}{598}, \frac{153}{598}, \frac{187}{598}, \frac{102}{299})$ $+ \frac{34}{299}\sqrt{130}e^4 \otimes e_5$	{12356789, 158, 2359, 567}
942:135	$0, 0, 0, 0, 0, \frac{16}{163}\sqrt{59}e^{12}, \frac{8}{163}\sqrt{6}e^{13}, \frac{16}{163}\sqrt{38}e^{14} + \frac{8}{163}\sqrt{226}e^{26},$ $\frac{48}{163}e^{17} + \frac{24}{163}\sqrt{14}e^{24}$	$(\frac{12}{163}, \frac{16}{163}, \frac{24}{163}, \frac{32}{163}, -\frac{112}{163}, \frac{28}{163}, \frac{36}{163}, \frac{44}{163}, \frac{48}{163})$ $+ \frac{40}{163}\sqrt{22}e^2 \otimes e_5$	{12348, 1456789, 23467, 459}
942:135	$0, 0, 0, 0, 0, \frac{34}{1911}\sqrt{381}e^{12}, \frac{170}{1911}\sqrt{15}e^{13}, \frac{34}{637}\sqrt{95}e^{14} + \frac{51}{637}\sqrt{6}e^{26},$ $\frac{17}{637}\sqrt{86}e^{17} + \frac{17}{1911}\sqrt{1518}e^{24}$	$(-\frac{85}{637}, \frac{34}{637}, \frac{272}{637}, \frac{68}{637}, -\frac{17}{49}, -\frac{51}{637}, \frac{187}{637}, -\frac{17}{637}, \frac{102}{637})$ $+ \frac{17}{147}\sqrt{30}e^4 \otimes e_5 + \frac{34}{1911}\sqrt{1326}e^3 \otimes e_8$	{12346, 4689}
942:135	$0, 0, 0, 0, 0, \frac{24}{709}\sqrt{105}e^{12}, \frac{12}{709}\sqrt{402}e^{13}, \frac{24}{709}\sqrt{30}e^{14} + \frac{12}{709}\sqrt{934}e^{26},$ $\frac{24}{709}\sqrt{11}e^{17} + \frac{12}{709}\sqrt{154}e^{24}$	$(-\frac{84}{709}, \frac{36}{709}, \frac{276}{709}, \frac{72}{709}, -\frac{252}{709}, -\frac{48}{709}, \frac{192}{709}, -\frac{12}{709}, \frac{108}{709})$ $+ \frac{12}{709}\sqrt{1330}e^2 \otimes e_5 + \frac{48}{709}\sqrt{74}e^3 \otimes e_8$	{1456789, 23467}
942:135	$0, 0, 0, 0, 0, \frac{102}{5429}\sqrt{202}e^{12}, \frac{102}{5429}\sqrt{313}e^{13},$ $\frac{2244}{5429}\sqrt{2}e^{14} + \frac{51}{5429}\sqrt{1226}e^{26}, \frac{51}{5429}\sqrt{182}e^{17} + \frac{51}{5429}\sqrt{730}e^{24}$	$(\frac{1173}{5429}, \frac{306}{5429}, -\frac{1428}{5429}, \frac{612}{5429}, -\frac{1989}{5429}, \frac{1479}{5429}, -\frac{255}{5429}, \frac{1785}{5429}, \frac{918}{5429})$ $+ \frac{102}{5429}\sqrt{1258}e^4 \otimes e_3 + \frac{51}{5429}\sqrt{4902}e^4 \otimes e_5$	{1469, 23468}
942:135	$0, 0, 0, 0, 0, \frac{2}{851}\sqrt{8797}e^{12}, \frac{4}{851}\sqrt{5093}e^{13},$ $\frac{2}{851}\sqrt{117602}e^{14} + \frac{8}{851}\sqrt{6945}e^{26}, \frac{2}{851}\sqrt{1389}e^{17} + \frac{2}{851}\sqrt{56949}e^{24}$	$(-\frac{85}{851}, \frac{5}{851}, \frac{5}{23}, \frac{10}{851}, 1, -\frac{80}{851}, \frac{100}{851}, -\frac{75}{851}, \frac{15}{851})$ $+ \frac{2}{851}\sqrt{328730}e^5 \otimes e_8$	{128, 136789, 2567, 359}
942:135	$0, 0, 0, 0, 0, \frac{4}{657}\sqrt{6015}e^{12}, \frac{4}{657}\sqrt{26867}e^{13},$ $\frac{2}{657}\sqrt{34887}e^{14} + \frac{2}{219}\sqrt{2406}e^{26}, \frac{2}{657}\sqrt{29674}e^{17} + \frac{2}{657}\sqrt{18847}e^{24}$	$(-\frac{1}{9}, \frac{9}{73}, \frac{389}{657}, \frac{18}{73}, -\frac{413}{657}, \frac{8}{657}, \frac{316}{657}, \frac{89}{657}, \frac{27}{73})$ $+ \frac{2}{657}\sqrt{214535}e^3 \otimes e_5$	{12369, 157, 23789, 568}
942:135	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{43}e^{12}, \frac{1}{17}\sqrt{73}e^{13}, \frac{1}{17}\sqrt{5}e^{14} + \frac{4}{17}\sqrt{3}e^{26},$ $\frac{2}{17}\sqrt{14}e^{17} + \frac{4}{17}\sqrt{2}e^{24}$	$(-\frac{3}{17}, 0, \frac{6}{17}, 0, \frac{9}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{3}{17}, 0)$ $+ \frac{12}{17}e^3 \otimes e_8 + \frac{5}{17}\sqrt{5}e^5 \otimes e_9$	{1349, 2458}
942:135	$0, 0, 0, 0, 0, \frac{24}{673}\sqrt{229}e^{12}, \frac{12}{673}\sqrt{214}e^{13}, \frac{24}{673}\sqrt{2}e^{14} + \frac{12}{673}\sqrt{526}e^{26},$ $\frac{24}{673}\sqrt{41}e^{17} + \frac{12}{673}\sqrt{14}e^{24}$	$(\frac{132}{673}, \frac{36}{673}, -\frac{156}{673}, \frac{72}{673}, -\frac{252}{673}, \frac{168}{673}, -\frac{24}{673}, \frac{204}{673}, \frac{108}{673})$ $+ \frac{12}{673}\sqrt{1290}e^2 \otimes e_5 + \frac{48}{673}\sqrt{70}e^1 \otimes e_3$	{15689, 236}
942:136	$0, 0, 0, 0, 0, -\frac{1}{211}\sqrt{23406}e^{12}, \frac{1}{211}\sqrt{3818}e^{13},$ $\frac{1}{211}\sqrt{23406}e^{16} + \frac{1}{211}\sqrt{15770}e^{24}, \frac{1}{211}\sqrt{11786}e^{14} + \frac{1}{211}\sqrt{166}e^{37}$	$(\frac{23}{211}, \frac{11}{211}, \frac{23}{211}, \frac{46}{211}, -\frac{143}{211}, \frac{34}{211}, \frac{46}{211}, \frac{57}{211}, \frac{69}{211})$ $+ \frac{2}{211}\sqrt{14691}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459, 12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459}
942:136	$0, 0, 0, 0, 0, \frac{1}{211}\sqrt{23406}e^{12}, \frac{1}{211}\sqrt{3818}e^{13},$ $\frac{1}{211}\sqrt{23406}e^{16} + \frac{1}{211}\sqrt{15770}e^{24}, \frac{1}{211}\sqrt{11786}e^{14} + \frac{1}{211}\sqrt{166}e^{37}$	$(\frac{23}{211}, \frac{11}{211}, \frac{23}{211}, \frac{46}{211}, -\frac{143}{211}, \frac{34}{211}, \frac{46}{211}, \frac{57}{211}, \frac{69}{211})$ $+ \frac{2}{211}\sqrt{14691}e^1 \otimes e_5$	{12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459, 12348, 12478, 1346, 1467, 23456789, 245689, 34579, 459}
942:136	$0, 0, 0, 0, 0, -\frac{23}{247}e^{12}, \frac{23}{1729}\sqrt{23}e^{13}, \frac{23}{1729}\sqrt{511}e^{16} + \frac{115}{1729}\sqrt{41}e^{24},$ $\frac{23}{133}\sqrt{5}e^{14} + \frac{23}{1729}\sqrt{383}e^{37}$	$(-\frac{23}{1729}, \frac{460}{1729}, -\frac{23}{1729}, -\frac{46}{1729}, -\frac{575}{1729}, \frac{23}{91}, -\frac{46}{1729}, \frac{414}{1729}, -\frac{69}{1729})$ $+ \frac{46}{1729}\sqrt{366}e^4 \otimes e_5 + \frac{92}{1729}\sqrt{105}e^2 \otimes e_9$	{12347, 124, 3489, 4789, 12347, 124, 3489, 4789}
942:136	$0, 0, 0, 0, 0, \frac{23}{247}e^{12}, \frac{23}{1729}\sqrt{23}e^{13}, \frac{23}{1729}\sqrt{511}e^{16} + \frac{115}{1729}\sqrt{41}e^{24},$ $\frac{23}{133}\sqrt{5}e^{14} + \frac{23}{1729}\sqrt{383}e^{37}$	$(-\frac{23}{1729}, \frac{460}{1729}, -\frac{23}{1729}, -\frac{46}{1729}, -\frac{575}{1729}, \frac{23}{91}, -\frac{46}{1729}, \frac{414}{1729}, -\frac{69}{1729})$ $+ \frac{46}{1729}\sqrt{366}e^4 \otimes e_5 + \frac{92}{1729}\sqrt{105}e^2 \otimes e_9$	{12347, 124, 3489, 4789, 12347, 124, 3489, 4789}
942:136	$0, 0, 0, 0, 0, -\frac{11}{761}\sqrt{878}e^{12}, \frac{11}{761}\sqrt{22}e^{13}, \frac{11}{761}\sqrt{430}e^{16} + \frac{11}{761}\sqrt{26}e^{24},$ $\frac{11}{761}\sqrt{458}e^{14} + \frac{11}{761}\sqrt{410}e^{37}$	$(-\frac{11}{761}, \frac{209}{761}, -\frac{11}{761}, -\frac{22}{761}, -\frac{253}{761}, \frac{198}{761}, -\frac{22}{761}, \frac{187}{761}, -\frac{33}{761})$ $+ \frac{22}{761}\sqrt{339}e^1 \otimes e_5 + \frac{88}{761}\sqrt{21}e^2 \otimes e_9$	{123478, 1248, 3459, 4579, 123478, 1248, 3459, 4579}
942:136	$0, 0, 0, 0, 0, \frac{11}{761}\sqrt{878}e^{12}, \frac{11}{761}\sqrt{22}e^{13}, \frac{11}{761}\sqrt{430}e^{16} + \frac{11}{761}\sqrt{26}e^{24},$ $\frac{11}{761}\sqrt{458}e^{14} + \frac{11}{761}\sqrt{410}e^{37}$	$(-\frac{11}{761}, \frac{209}{761}, -\frac{11}{761}, -\frac{22}{761}, -\frac{253}{761}, \frac{198}{761}, -\frac{22}{761}, \frac{187}{761}, -\frac{33}{761})$ $+ \frac{22}{761}\sqrt{339}e^1 \otimes e_5 + \frac{88}{761}\sqrt{21}e^2 \otimes e_9$	{123478, 1248, 3459, 4579, 123478, 1248, 3459, 4579}
942:136	$0, 0, 0, 0, 0, -\frac{1}{161}\sqrt{11}e^{12}, \frac{1}{161}\sqrt{199}e^{13}, \frac{1}{161}\sqrt{65}e^{16} + \frac{1}{161}\sqrt{257}e^{24},$ $\frac{1}{161}\sqrt{181}e^{14} + \frac{5}{161}\sqrt{11}e^{37}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{2}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+ \frac{1}{161}\sqrt{174}e^2 \otimes e_9 + \frac{5}{161}\sqrt{402}e^3 \otimes e_8$	{145789, 14789, 23457, 2347, 145789, 14789, 23457, 2347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:136	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{11}e^{12}, \frac{1}{161}\sqrt{199}e^{13}, \frac{1}{161}\sqrt{65}e^{16} + \frac{1}{161}\sqrt{257}e^{24},$ $\frac{1}{161}\sqrt{181}e^{14} + \frac{5}{161}\sqrt{11}e^{37}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{2}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+ \frac{1}{161}\sqrt{174}e^2 \otimes e_9 + \frac{1}{161}\sqrt{402}e^3 \otimes e_8$	{145789, 14789, 23457, 2347, 145789, 14789, 23457, 2347}
942:136	$0, 0, 0, 0, 0, -\frac{1}{23}\sqrt{26}e^{12}, \frac{1}{23}\sqrt{26}e^{13}, \frac{1}{23}\sqrt{26}e^{16} + \frac{1}{23}\sqrt{26}e^{24},$ $\frac{13}{23}\sqrt{2}e^{14} + \frac{1}{23}\sqrt{286}e^{37}$	$(-\frac{1}{23}, \frac{5}{23}, -\frac{1}{23}, -\frac{2}{23}, \frac{1}{23}, \frac{4}{23}, -\frac{2}{23}, \frac{3}{23}, -\frac{3}{23})$ $+ \frac{2}{23}\sqrt{247}e^5 \otimes e_9$	{12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679, 12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679}
942:136	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{26}e^{12}, \frac{1}{23}\sqrt{26}e^{13}, \frac{1}{23}\sqrt{26}e^{16} + \frac{1}{23}\sqrt{26}e^{24},$ $\frac{13}{23}\sqrt{2}e^{14} + \frac{1}{23}\sqrt{286}e^{37}$	$(-\frac{1}{23}, \frac{5}{23}, -\frac{1}{23}, -\frac{2}{23}, \frac{1}{23}, \frac{4}{23}, -\frac{2}{23}, \frac{3}{23}, -\frac{3}{23})$ $+ \frac{2}{23}\sqrt{247}e^5 \otimes e_9$	{12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679, 12345678, 124568, 13457, 145, 23489, 24789, 3469, 4679}
942:136	$0, 0, 0, 0, 0, -\frac{1}{17}\sqrt{2}e^{12}, \frac{1}{17}\sqrt{26}e^{13}, \frac{1}{17}\sqrt{14}e^{16} + \frac{1}{17}\sqrt{22}e^{24},$ $\frac{1}{17}\sqrt{22}e^{14} + \frac{1}{17}\sqrt{26}e^{37}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{3}e^1 \otimes e_5 + \frac{4}{17}\sqrt{3}e^3 \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:136	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{2}e^{12}, \frac{1}{17}\sqrt{26}e^{13}, \frac{1}{17}\sqrt{14}e^{16} + \frac{1}{17}\sqrt{22}e^{24},$ $\frac{1}{17}\sqrt{22}e^{14} + \frac{1}{17}\sqrt{26}e^{37}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{1}{17}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{3}e^1 \otimes e_5 + \frac{4}{17}\sqrt{3}e^3 \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:136	$0, 0, 0, 0, 0, -\frac{52}{415}\sqrt{7}e^{12}, \frac{13}{415}\sqrt{26}e^{13}, \frac{52}{415}\sqrt{5}e^{16} + \frac{13}{415}\sqrt{218}e^{24},$ $\frac{52}{415}e^{14} + \frac{52}{415}\sqrt{11}e^{37}$	$(-\frac{26}{415}, \frac{91}{415}, -\frac{26}{415}, -\frac{52}{415}, \frac{208}{415}, \frac{13}{415}, -\frac{52}{415}, \frac{39}{415}, -\frac{78}{415})$ $+ \frac{13}{415}\sqrt{318}e^5 \otimes e_8 + \frac{39}{415}\sqrt{46}e^2 \otimes e_9$	{12378, 128, 359, 579, 12378, 128, 359, 579}
942:136	$0, 0, 0, 0, 0, \frac{52}{415}\sqrt{7}e^{12}, \frac{13}{415}\sqrt{26}e^{13}, \frac{52}{415}\sqrt{5}e^{16} + \frac{13}{415}\sqrt{218}e^{24},$ $\frac{52}{415}e^{14} + \frac{52}{415}\sqrt{11}e^{37}$	$(-\frac{26}{415}, \frac{91}{415}, -\frac{26}{415}, -\frac{52}{415}, \frac{208}{415}, \frac{13}{415}, -\frac{52}{415}, \frac{39}{415}, -\frac{78}{415})$ $+ \frac{13}{415}\sqrt{318}e^5 \otimes e_8 + \frac{39}{415}\sqrt{46}e^2 \otimes e_9$	{12378, 128, 359, 579, 12378, 128, 359, 579}
942:136	$0, 0, 0, 0, 0, -\frac{110}{761}\sqrt{2}e^{12}, \frac{44}{761}\sqrt{41}e^{13}, \frac{22}{761}\sqrt{62}e^{16} + \frac{22}{761}\sqrt{163}e^{24},$ $\frac{22}{761}\sqrt{55}e^{14} + \frac{88}{761}\sqrt{17}e^{37}$	$(-\frac{11}{761}, \frac{209}{761}, -\frac{11}{761}, -\frac{22}{761}, -\frac{253}{761}, \frac{198}{761}, -\frac{22}{761}, \frac{187}{761}, -\frac{33}{761})$ $+ \frac{22}{761}\sqrt{339}e^3 \otimes e_5 + \frac{88}{761}\sqrt{21}e^2 \otimes e_9$	{134689, 1456789, 23467, 2456, 134689, 1456789, 23467, 2456}
942:136	$0, 0, 0, 0, 0, \frac{110}{761}\sqrt{2}e^{12}, \frac{44}{761}\sqrt{41}e^{13}, \frac{22}{761}\sqrt{62}e^{16} + \frac{22}{761}\sqrt{163}e^{24},$ $\frac{22}{761}\sqrt{55}e^{14} + \frac{88}{761}\sqrt{17}e^{37}$	$(-\frac{11}{761}, \frac{209}{761}, -\frac{11}{761}, -\frac{22}{761}, -\frac{253}{761}, \frac{198}{761}, -\frac{22}{761}, \frac{187}{761}, -\frac{33}{761})$ $+ \frac{22}{761}\sqrt{339}e^3 \otimes e_5 + \frac{88}{761}\sqrt{21}e^2 \otimes e_9$	{134689, 1456789, 23467, 2456, 134689, 1456789, 23467, 2456}
942:136	$0, 0, 0, 0, 0, -\frac{2}{59}\sqrt{26}e^{12}, \frac{2}{59}\sqrt{94}e^{13}, \frac{2}{59}\sqrt{34}e^{16} + \frac{2}{59}\sqrt{94}e^{24},$ $\frac{2}{59}\sqrt{82}e^{14} + \frac{2}{59}\sqrt{106}e^{37}$	$(\frac{2}{59}, -\frac{10}{59}, \frac{2}{59}, \frac{4}{59}, \frac{14}{59}, -\frac{8}{59}, \frac{4}{59}, -\frac{6}{59}, \frac{6}{59})$ $+ \frac{12}{59}\sqrt{5}e^3 \otimes e_8 + \frac{4}{59}\sqrt{7}e^5 \otimes e_9$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:136	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{26}e^{12}, \frac{2}{59}\sqrt{94}e^{13}, \frac{2}{59}\sqrt{34}e^{16} + \frac{2}{59}\sqrt{94}e^{24},$ $\frac{2}{59}\sqrt{82}e^{14} + \frac{2}{59}\sqrt{106}e^{37}$	$(\frac{2}{59}, -\frac{10}{59}, \frac{2}{59}, \frac{4}{59}, \frac{14}{59}, -\frac{8}{59}, \frac{4}{59}, -\frac{6}{59}, \frac{6}{59})$ $+ \frac{12}{59}\sqrt{5}e^3 \otimes e_8 + \frac{4}{59}\sqrt{7}e^5 \otimes e_9$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:136	$0, 0, 0, 0, 0, -\frac{2}{179}\sqrt{14}e^{12}, \frac{12}{179}\sqrt{7}e^{13}, \frac{4}{179}\sqrt{23}e^{16} + \frac{6}{179}\sqrt{34}e^{24},$ $\frac{4}{179}\sqrt{70}e^{14} + \frac{2}{179}\sqrt{278}e^{37}$	$(\frac{6}{179}, -\frac{14}{179}, \frac{6}{179}, \frac{12}{179}, -\frac{22}{179}, -\frac{8}{179}, \frac{12}{179}, -\frac{2}{179}, \frac{18}{179})$ $+ \frac{18}{179}\sqrt{2}e^2 \otimes e_5 + \frac{8}{179}\sqrt{30}e^3 \otimes e_8$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
942:136	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{14}e^{12}, \frac{12}{179}\sqrt{7}e^{13}, \frac{4}{179}\sqrt{23}e^{16} + \frac{6}{179}\sqrt{34}e^{24},$ $\frac{4}{179}\sqrt{70}e^{14} + \frac{2}{179}\sqrt{278}e^{37}$	$(\frac{6}{179}, -\frac{14}{179}, \frac{6}{179}, \frac{12}{179}, -\frac{22}{179}, -\frac{8}{179}, \frac{12}{179}, -\frac{2}{179}, \frac{18}{179})$ $+ \frac{18}{179}\sqrt{2}e^2 \otimes e_5 + \frac{8}{179}\sqrt{30}e^3 \otimes e_8$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
942:136	$0, 0, 0, 0, 0, -\frac{11}{127}\sqrt{5}e^{12}, \frac{11}{889}\sqrt{727}e^{13}, \frac{11}{889}\sqrt{203}e^{16} + \frac{11}{889}\sqrt{803}e^{24},$ $\frac{11}{889}\sqrt{589}e^{14} + \frac{11}{889}\sqrt{713}e^{37}$	$(\frac{55}{889}, -\frac{176}{889}, \frac{55}{889}, \frac{110}{889}, -\frac{11}{889}, -\frac{121}{889}, \frac{110}{889}, -\frac{66}{889}, \frac{165}{889})$ $+ \frac{22}{889}\sqrt{57}e^4 \otimes e_5 + \frac{88}{889}\sqrt{21}e^3 \otimes e_8$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
942:136	$0, 0, 0, 0, 0, \frac{11}{127}\sqrt{5}e^{12}, \frac{11}{889}\sqrt{727}e^{13}, \frac{11}{889}\sqrt{203}e^{16} + \frac{11}{889}\sqrt{803}e^{24},$ $\frac{11}{889}\sqrt{589}e^{14} + \frac{11}{889}\sqrt{713}e^{37}$	$(\frac{55}{889}, -\frac{176}{889}, \frac{55}{889}, \frac{110}{889}, -\frac{11}{889}, -\frac{121}{889}, \frac{110}{889}, -\frac{66}{889}, \frac{165}{889})$ $+ \frac{22}{889}\sqrt{57}e^4 \otimes e_5 + \frac{88}{889}\sqrt{21}e^3 \otimes e_8$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
942:136	$0, 0, 0, 0, 0, -\frac{5}{107}\sqrt{17}e^{12}, \frac{3}{107}\sqrt{187}e^{13}, \frac{1}{107}\sqrt{629}e^{16} + \frac{3}{107}\sqrt{187}e^{24},$ $\frac{1}{107}\sqrt{1615}e^{14} + \frac{1}{107}\sqrt{1751}e^{37}$	$(\frac{6}{107}, -\frac{23}{107}, \frac{6}{107}, \frac{12}{107}, \frac{14}{107}, -\frac{17}{107}, \frac{12}{107}, -\frac{11}{107}, \frac{18}{107})$ $+ \frac{1}{107}\sqrt{3162}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:136	$0, 0, 0, 0, 0, \frac{5}{107}\sqrt{17}e^{12}, \frac{3}{107}\sqrt{187}e^{13}, \frac{1}{107}\sqrt{629}e^{16} + \frac{3}{107}\sqrt{187}e^{24},$ $\frac{1}{107}\sqrt{1615}e^{14} + \frac{1}{107}\sqrt{1751}e^{37}$	$(\frac{6}{107}, -\frac{23}{107}, \frac{6}{107}, \frac{12}{107}, \frac{14}{107}, -\frac{17}{107}, \frac{12}{107}, -\frac{11}{107}, \frac{18}{107})$ $+ \frac{1}{107}\sqrt{3162}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
942:136	$0, 0, 0, 0, 0, -\frac{17}{109}\sqrt{15}e^{12}, \frac{3}{109}\sqrt{85}e^{13}, \frac{3}{109}\sqrt{85}e^{16} + \frac{17}{109}\sqrt{15}e^{24},$ $\frac{1}{109}\sqrt{1955}e^{14} + \frac{5}{109}\sqrt{221}e^{37}$	$(-\frac{9}{109}, \frac{58}{109}, -\frac{9}{109}, -\frac{18}{109}, \frac{19}{109}, \frac{49}{109}, -\frac{18}{109}, \frac{40}{109}, -\frac{27}{109})$ $+ \frac{30}{109}\sqrt{17}e^2 \otimes e_9$	{123457, 12347, 124, 1245, 34589, 3489, 45789, 4789, 123457, 12347, 124, 1245, 34589, 3489, 45789, 4789}
942:136	$0, 0, 0, 0, 0, \frac{17}{109}\sqrt{15}e^{12}, \frac{3}{109}\sqrt{85}e^{13}, \frac{3}{109}\sqrt{85}e^{16} + \frac{17}{109}\sqrt{15}e^{24},$ $\frac{1}{109}\sqrt{1955}e^{14} + \frac{5}{109}\sqrt{221}e^{37}$	$(-\frac{9}{109}, \frac{58}{109}, -\frac{9}{109}, -\frac{18}{109}, \frac{19}{109}, \frac{49}{109}, -\frac{18}{109}, \frac{40}{109}, -\frac{27}{109})$ $+ \frac{30}{109}\sqrt{17}e^2 \otimes e_9$	{123457, 12347, 124, 1245, 34589, 3489, 45789, 4789, 123457, 12347, 124, 1245, 34589, 3489, 45789, 4789}
942:138	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{5}{27}\sqrt{6}e^{13}, \frac{1}{27}\sqrt{70}e^{14} + \frac{2}{27}\sqrt{10}e^{26},$ $\frac{4}{27}\sqrt{30}e^{24} + \frac{2}{27}\sqrt{95}e^{37}$	$(\frac{5}{27}, -\frac{1}{27}, -\frac{4}{27}, -\frac{2}{27}, 1, \frac{4}{27}, \frac{27}{27}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{1330}e^5 \otimes e_9$	{13489, 14789, 23457, 245}
942:138	$0, 0, 0, 0, 0, \frac{4}{249}\sqrt{1886}e^{12}, \frac{8}{747}\sqrt{2990}e^{13}, \frac{92}{747}\sqrt{30}e^{14} + \frac{16}{747}\sqrt{138}e^{26},$ $\frac{8}{747}\sqrt{2507}e^{24} + \frac{4}{747}\sqrt{7498}e^{37}$	$(\frac{260}{747}, \frac{4}{83}, -\frac{76}{747}, \frac{8}{83}, -\frac{476}{747}, \frac{296}{747}, \frac{184}{747}, \frac{4}{9}, \frac{12}{83})$ $+ \frac{4}{747}\sqrt{56258}e^1 \otimes e_5$	{13689, 16789, 23567, 256}
942:138	$0, 0, 0, 0, 0, \frac{2}{597}\sqrt{2770}e^{12}, \frac{4}{199}\sqrt{1662}e^{13},$ $\frac{2}{597}\sqrt{11357}e^{14} + \frac{2}{597}\sqrt{17174}e^{26}, \frac{2}{597}\sqrt{10803}e^{24} + \frac{4}{597}\sqrt{14681}e^{37}$	$(-\frac{59}{597}, \frac{31}{199}, \frac{169}{597}, \frac{62}{199}, -\frac{385}{597}, \frac{34}{597}, \frac{110}{597}, \frac{127}{597}, \frac{93}{199})$ $+ \frac{2}{597}\sqrt{136007}e^3 \otimes e_5$	{139, 1579, 2378, 258}
942:138	$0, 0, 0, 0, 0, \frac{1}{1517}\sqrt{39866}e^{12}, \frac{1}{1517}\sqrt{515686}e^{13},$ $\frac{1}{1517}\sqrt{443670}e^{14} + \frac{2}{1517}\sqrt{170395}e^{26}, \frac{2}{1517}\sqrt{134387}e^{24} + \frac{1}{1517}\sqrt{829470}e^{37}$	$(-\frac{480}{1517}, \frac{154}{1517}, \frac{471}{1517}, \frac{308}{1517}, \frac{235}{1517}, -\frac{326}{1517}, -\frac{9}{1517}, -\frac{172}{1517}, \frac{462}{1517})$ $+ \frac{2}{1517}\sqrt{412163}e^3 \otimes e_8$	{1234569, 123469, 4568, 468}
942:138	$0, 0, 0, 0, 0, \frac{1}{1349}\sqrt{695130}e^{12}, \frac{1}{1349}\sqrt{8178}e^{13},$ $\frac{1}{1349}\sqrt{1234878}e^{14} + \frac{16}{1349}\sqrt{2726}e^{26}, \frac{12}{1349}\sqrt{9541}e^{24} + \frac{1}{1349}\sqrt{286230}e^{37}$	$(-\frac{6}{1349}, \frac{196}{1349}, \frac{297}{1349}, \frac{392}{1349}, -\frac{971}{1349}, \frac{10}{71}, \frac{291}{1349}, \frac{386}{1349}, \frac{588}{1349})$ $+ \frac{116}{1349}\sqrt{235}e^4 \otimes e_5$	{12356789, 125689, 356, 567}
942:138	$0, 0, 0, 0, 0, \frac{13}{1533}\sqrt{714}e^{12}, \frac{221}{1533}\sqrt{6}e^{13}, \frac{39}{511}\sqrt{30}e^{14} + \frac{130}{511}\sqrt{2}e^{26},$ $\frac{52}{1533}\sqrt{57}e^{24} + \frac{13}{511}\sqrt{290}e^{37}$	$(-\frac{130}{511}, \frac{52}{511}, \frac{143}{511}, \frac{104}{511}, -\frac{65}{511}, -\frac{78}{511}, \frac{13}{511}, -\frac{26}{511}, \frac{156}{511})$ $+ \frac{26}{1533}\sqrt{570}e^4 \otimes e_5 + \frac{572}{1533}\sqrt{3}e^3 \otimes e_8$	{123469, 468}
942:138	$0, 0, 0, 0, 0, \frac{8}{1019}\sqrt{290}e^{12}, \frac{48}{1019}\sqrt{26}e^{13}, \frac{8}{1019}\sqrt{978}e^{14} + \frac{32}{1019}\sqrt{57}e^{26},$ $\frac{16}{1019}\sqrt{249}e^{24} + \frac{8}{1019}\sqrt{1238}e^{37}$	$(-\frac{104}{1019}, \frac{56}{1019}, \frac{136}{1019}, \frac{112}{1019}, -\frac{232}{1019}, -\frac{48}{1019}, \frac{32}{1019}, \frac{8}{1019}, \frac{168}{1019})$ $+ \frac{32}{1019}\sqrt{143}e^3 \otimes e_8 + \frac{8}{1019}\sqrt{1358}e^1 \otimes e_5$	{16789, 23567}
942:138	$0, 0, 0, 0, 0, \frac{28}{181}e^{12}, \frac{14}{181}\sqrt{19}e^{13}, \frac{28}{543}\sqrt{30}e^{14} + \frac{35}{543}\sqrt{30}e^{26},$ $\frac{7}{181}\sqrt{38}e^{24} + \frac{140}{543}\sqrt{3}e^{37}$	$(-\frac{35}{181}, \frac{7}{181}, \frac{28}{181}, \frac{14}{181}, \frac{70}{181}, -\frac{28}{181}, -\frac{7}{181}, -\frac{21}{181}, \frac{21}{181})$ $+ \frac{7}{181}\sqrt{222}e^3 \otimes e_8 + \frac{543}{543}\sqrt{870}e^5 \otimes e_9$	{123469, 4568}
942:138	$0, 0, 0, 0, 0, \frac{17}{365}\sqrt{254}e^{12}, \frac{17}{365}\sqrt{15}e^{13}, \frac{17}{365}\sqrt{182}e^{14} + \frac{17}{365}\sqrt{259}e^{26},$ $\frac{51}{365}\sqrt{15}e^{24} + \frac{17}{365}\sqrt{6}e^{37}$	$(\frac{3}{73}, \frac{41}{365}, \frac{54}{365}, \frac{82}{365}, -\frac{248}{365}, \frac{56}{365}, \frac{69}{365}, \frac{97}{365}, \frac{123}{365})$ $+ \frac{17}{365}\sqrt{613}e^2 \otimes e_5$	{12348, 12478, 34579, 459}
942:138	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{1270}e^{12}, \frac{1}{121}\sqrt{1778}e^{13}, \frac{1}{121}\sqrt{9398}e^{14} + \frac{6}{121}\sqrt{254}e^{26},$ $\frac{4}{121}\sqrt{381}e^{24} + \frac{1}{121}\sqrt{3810}e^{37}$	$(-\frac{14}{121}, \frac{4}{121}, \frac{13}{121}, \frac{8}{121}, 1, -\frac{10}{121}, -\frac{1}{121}, -\frac{6}{121}, \frac{12}{121})$ $+ \frac{10}{121}\sqrt{254}e^5 \otimes e_8$	{12378, 128, 359, 579}
942:138	$0, 0, 0, 0, 0, \frac{9}{293}\sqrt{62}e^{12}, \frac{9}{293}\sqrt{103}e^{13}, \frac{9}{293}\sqrt{34}e^{14} + \frac{27}{293}\sqrt{23}e^{26},$ $\frac{9}{293}\sqrt{69}e^{24} + \frac{9}{293}\sqrt{158}e^{37}$	$(-\frac{63}{293}, \frac{27}{293}, \frac{72}{293}, \frac{54}{293}, -\frac{54}{293}, -\frac{36}{293}, \frac{9}{293}, -\frac{9}{293}, \frac{81}{293})$ $+ \frac{18}{293}\sqrt{83}e^3 \otimes e_8 + \frac{9}{293}\sqrt{181}e^2 \otimes e_5$	{156789, 2367}
942:139	$0, 0, 0, 0, 0, -\frac{1}{91}\sqrt{309}e^{12}, \frac{1}{91}\sqrt{309}e^{13}, \frac{1}{91}\sqrt{309}e^{16} + \frac{1}{91}\sqrt{4841}e^{34},$ $\frac{1}{91}\sqrt{309}e^{17} + \frac{1}{91}\sqrt{4841}e^{24}$	$(\frac{22}{91}, -\frac{6}{91}, -\frac{6}{91}, \frac{44}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{16}{91}, \frac{38}{91}, \frac{38}{91})$ $+ \frac{5}{91}\sqrt{618}e^4 \otimes e_5$	{12356789, 12468, 15, 23589, 2478, 567, 12356789, 12468, 15, 23589, 2478, 567}
942:139	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{309}e^{12}, \frac{1}{91}\sqrt{309}e^{13}, \frac{1}{91}\sqrt{309}e^{16} + \frac{1}{91}\sqrt{4841}e^{34},$ $\frac{1}{91}\sqrt{309}e^{17} + \frac{1}{91}\sqrt{4841}e^{24}$	$(\frac{22}{91}, -\frac{6}{91}, -\frac{6}{91}, \frac{44}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{16}{91}, \frac{38}{91}, \frac{38}{91})$ $+ \frac{5}{91}\sqrt{618}e^4 \otimes e_5$	{12356789, 12468, 15, 23589, 2478, 567, 12356789, 12468, 15, 23589, 2478, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:139	$0, 0, 0, 0, 0, -\frac{2}{47}\sqrt{190}e^{12}, \frac{2}{47}\sqrt{190}e^{13}, \frac{2}{47}\sqrt{190}e^{16} + \frac{2}{47}\sqrt{57}e^{34},$ $\frac{2}{47}\sqrt{190}e^{17} + \frac{2}{47}\sqrt{57}e^{24}$	$(\frac{7}{47}, \frac{1}{47}, \frac{1}{47}, \frac{14}{47}, -\frac{31}{47}, \frac{8}{47}, \frac{8}{47}, \frac{15}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{74}e^1 \otimes e_5$	{123489, 1278, 1467, 23456789, 2568, 45, 123489, 1278, 1467, 23456789, 2568, 45}
942:139	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{190}e^{12}, \frac{2}{47}\sqrt{190}e^{13}, \frac{2}{47}\sqrt{190}e^{16} + \frac{2}{47}\sqrt{57}e^{34},$ $\frac{2}{47}\sqrt{190}e^{17} + \frac{2}{47}\sqrt{57}e^{24}$	$(\frac{7}{47}, \frac{1}{47}, \frac{1}{47}, \frac{14}{47}, -\frac{31}{47}, \frac{8}{47}, \frac{8}{47}, \frac{15}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{74}e^1 \otimes e_5$	{123489, 1278, 1467, 23456789, 2568, 45, 123489, 1278, 1467, 23456789, 2568, 45}
942:140	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{119}e^{12}, \frac{8}{99}\sqrt{51}e^{13}, \frac{4}{99}\sqrt{34}e^{26} + \frac{8}{99}\sqrt{34}e^{34},$ $\frac{34}{99}\sqrt{5}e^{17} + \frac{2}{99}\sqrt{1785}e^{24}$	$(-\frac{7}{99}, \frac{5}{99}, \frac{1}{9}, -\frac{8}{99}, 1, -\frac{2}{99}, \frac{4}{99}, \frac{1}{33}, -\frac{1}{33})$ $+ \frac{4}{99}\sqrt{1054}e^5 \otimes e_9$	{13489, 1578, 2379, 245}
942:140	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{949}e^{12}, \frac{2}{169}\sqrt{146}e^{13}, \frac{2}{169}\sqrt{3723}e^{26} + \frac{2}{169}\sqrt{1387}e^{34},$ $\frac{4}{169}\sqrt{365}e^{17} + \frac{2}{169}\sqrt{2555}e^{24}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{48}{169}, \frac{11}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{45}{169}, \frac{59}{169}, \frac{42}{169})$ $+ \frac{2}{169}\sqrt{10366}e^2 \otimes e_5$	{13456789, 1568, 2369, 2467}
942:140	$0, 0, 0, 0, 0, \frac{4}{2617}\sqrt{21255}e^{12}, \frac{8}{2617}\sqrt{8502}e^{13},$ $\frac{2}{2617}\sqrt{54271}e^{26} + \frac{6}{2617}\sqrt{120445}e^{34}, \frac{12}{2617}\sqrt{4251}e^{17} + \frac{6}{2617}\sqrt{126113}e^{24}$	$(\frac{681}{2617}, \frac{59}{2617}, -\frac{252}{2617}, \frac{1051}{2617}, -\frac{1783}{2617}, \frac{740}{2617}, \frac{429}{2617}, \frac{799}{2617}, \frac{1110}{2617})$ $+ \frac{20}{2617}\sqrt{31174}e^4 \otimes e_5$	{12356789, 12468, 3469, 567}
942:140	$0, 0, 0, 0, 0, \frac{2}{915}\sqrt{19877}e^{12}, \frac{4}{2745}\sqrt{272162}e^{13},$ $\frac{2}{2745}\sqrt{64218}e^{26} + \frac{22}{2745}\sqrt{9174}e^{34}, \frac{2}{2745}\sqrt{365431}e^{17} + \frac{2}{2745}\sqrt{157487}e^{24}$	$(-\frac{337}{2745}, \frac{253}{915}, \frac{1307}{2745}, -\frac{14}{305}, -\frac{1751}{2745}, \frac{422}{2745}, \frac{194}{549}, \frac{1181}{2745}, \frac{211}{915})$ $+ \frac{4}{2745}\sqrt{859298}e^3 \otimes e_5$	{1389, 14578, 23479, 25}
942:140	$0, 0, 0, 0, 0, \frac{8}{227}\sqrt{230}e^{12}, \frac{4}{227}\sqrt{690}e^{13}, \frac{2}{227}\sqrt{7705}e^{26} + \frac{2}{227}\sqrt{9085}e^{34},$ $\frac{20}{227}\sqrt{23}e^{17} + \frac{2}{227}\sqrt{6095}e^{24}$	$(\frac{11}{227}, -\frac{7}{227}, -\frac{16}{227}, \frac{13}{227}, 1, \frac{4}{227}, -\frac{5}{227}, -\frac{3}{227}, \frac{6}{227})$ $+ \frac{4}{227}\sqrt{5405}e^5 \otimes e_8$	{12378, 12489, 345, 579}
942:140	$0, 0, 0, 0, 0, \frac{10}{141}\sqrt{61}e^{12}, \frac{4}{141}\sqrt{610}e^{13}, \frac{8}{141}\sqrt{61}e^{26} + \frac{4}{141}\sqrt{61}e^{34},$ $\frac{2}{47}\sqrt{305}e^{17} + \frac{2}{141}\sqrt{1159}e^{24}$	$(\frac{31}{141}, \frac{1}{47}, -\frac{11}{141}, \frac{16}{47}, -\frac{91}{141}, \frac{34}{141}, \frac{20}{141}, \frac{37}{141}, \frac{17}{47})$ $+ \frac{4}{141}\sqrt{1769}e^1 \otimes e_5$	{123489, 1278, 3579, 45}
942:141	$0, 0, 0, 0, 0, \frac{8}{297}\sqrt{805}e^{12}, \frac{8}{297}\sqrt{805}e^{13}, \frac{2}{297}\sqrt{5474}e^{26} + \frac{46}{297}\sqrt{7}e^{34},$ $\frac{46}{297}\sqrt{7}e^{24} + \frac{2}{297}\sqrt{5474}e^{37}$	$(\frac{137}{297}, -\frac{35}{297}, -\frac{35}{297}, \frac{34}{99}, -\frac{185}{297}, \frac{34}{99}, \frac{34}{99}, \frac{67}{297}, \frac{67}{297})$ $+ \frac{2}{297}\sqrt{38801}e^1 \otimes e_5$	{123489, 16789, 23567, 45}
942:141	$0, 0, 0, 0, 0, \frac{14}{285}\sqrt{141}e^{12}, \frac{56}{285}\sqrt{6}e^{13}, \frac{14}{285}\sqrt{249}e^{26} + \frac{14}{285}\sqrt{291}e^{34},$ $\frac{14}{285}\sqrt{183}e^{24} + \frac{28}{285}\sqrt{3}e^{37}$	$(\frac{11}{95}, -\frac{7}{95}, -\frac{7}{95}, \frac{4}{95}, 1, \frac{4}{95}, \frac{4}{95}, -\frac{3}{95}, -\frac{3}{95})$ $+ \frac{14}{95}\sqrt{79}e^5 \otimes e_8$	{12378, 1468, 234569, 579}
942:141	$0, 0, 0, 0, 0, \frac{2}{265}\sqrt{1995}e^{12}, \frac{2}{265}\sqrt{1995}e^{13}, \frac{4}{265}\sqrt{1729}e^{26} + \frac{8}{265}\sqrt{798}e^{34},$ $\frac{8}{265}\sqrt{798}e^{24} + \frac{4}{265}\sqrt{1729}e^{37}$	$(\frac{66}{265}, \frac{7}{265}, \frac{7}{265}, \frac{73}{265}, -\frac{193}{265}, \frac{73}{265}, \frac{73}{265}, \frac{16}{265}, \frac{16}{53})$ $+ \frac{2}{265}\sqrt{30457}e^4 \otimes e_5$	{12356789, 1489, 234, 567}
942:141	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{682}e^{12}, \frac{1}{37}\sqrt{11}e^{13}, \frac{1}{37}\sqrt{781}e^{26} + \frac{1}{37}\sqrt{286}e^{34},$ $\frac{1}{37}\sqrt{385}e^{24} + \frac{1}{37}\sqrt{110}e^{37}$	$(-\frac{4}{37}, \frac{9}{37}, \frac{9}{37}, \frac{5}{37}, -\frac{24}{37}, \frac{5}{37}, \frac{5}{37}, \frac{14}{37}, \frac{14}{37})$ $+ \frac{1}{37}\sqrt{2013}e^2 \otimes e_5$	{12789, 1345689, 246, 357}
942:142	$0, 0, 0, 0, 0, \frac{8}{3323}\sqrt{970}e^{12}, \frac{8}{3323}\sqrt{127}e^{13},$ $\frac{16}{3323}\sqrt{247}e^{14} + \frac{8}{3323}\sqrt{1437}e^{26}, \frac{24}{3323}\sqrt{42}e^{17} + \frac{8}{3323}\sqrt{1311}e^{45}$	$(-\frac{124}{3323}, \frac{20}{3323}, \frac{236}{3323}, \frac{40}{3323}, -\frac{52}{3323}, -\frac{104}{3323}, \frac{112}{3323}, -\frac{84}{3323}, -\frac{12}{3323})$ $+ \frac{32}{3323}\sqrt{129}e^2 \otimes e_9 + \frac{64}{3323}\sqrt{14}e^5 \otimes e_8$	{134689, 2456}
942:142	$0, 0, 0, 0, 0, \frac{24}{323}\sqrt{38}e^{12}, \frac{24}{323}\sqrt{103}e^{13}, \frac{48}{323}\sqrt{13}e^{14} + \frac{8}{323}\sqrt{813}e^{26},$ $\frac{8}{323}\sqrt{138}e^{17} + \frac{8}{323}\sqrt{33}e^{45}$	$(-\frac{4}{17}, \frac{4}{323}, \frac{220}{323}, \frac{8}{323}, \frac{60}{323}, -\frac{72}{323}, \frac{144}{323}, -\frac{4}{19}, \frac{4}{19})$ $+ \frac{160}{323}\sqrt{6}e^3 \otimes e_8$	{1234569, 13459, 248, 468}
942:142	$0, 0, 0, 0, 0, \frac{8}{323}\sqrt{138}e^{12}, \frac{8}{323}\sqrt{33}e^{13}, \frac{48}{323}\sqrt{13}e^{14} + \frac{8}{323}\sqrt{813}e^{26},$ $\frac{24}{323}\sqrt{38}e^{17} + \frac{24}{323}\sqrt{103}e^{45}$	$(\frac{92}{969}, -\frac{148}{969}, \frac{60}{323}, -\frac{296}{969}, \frac{220}{323}, -\frac{56}{969}, \frac{16}{57}, -\frac{4}{19}, \frac{364}{969})$ $+ \frac{160}{323}\sqrt{6}e^5 \otimes e_8$	{128, 168, 23569, 359}
942:142	$0, 0, 0, 0, 0, \frac{24}{2467}\sqrt{890}e^{12}, \frac{24}{2467}\sqrt{79}e^{13},$ $\frac{144}{2467}\sqrt{23}e^{14} + \frac{24}{2467}\sqrt{949}e^{26}, \frac{24}{2467}\sqrt{546}e^{17} + \frac{24}{2467}\sqrt{767}e^{45}$	$(\frac{60}{2467}, \frac{180}{2467}, -\frac{228}{2467}, \frac{360}{2467}, -\frac{468}{2467}, \frac{240}{2467}, -\frac{168}{2467}, \frac{420}{2467}, -\frac{108}{2467})$ $+ \frac{192}{2467}\sqrt{7}e^1 \otimes e_3 + \frac{48}{2467}\sqrt{430}e^2 \otimes e_9$	{124578, 3479}
942:142	$0, 0, 0, 0, 0, \frac{24}{163}\sqrt{3}e^{12}, \frac{12}{163}\sqrt{23}e^{13}, \frac{24}{163}\sqrt{17}e^{14} + \frac{12}{163}\sqrt{19}e^{26},$ $\frac{24}{163}\sqrt{3}e^{17} + \frac{12}{163}\sqrt{23}e^{45}$	$(\frac{24}{163}, \frac{18}{163}, -\frac{48}{163}, \frac{36}{163}, -\frac{36}{163}, \frac{42}{163}, -\frac{24}{163}, \frac{60}{163}, 0)$ $+ \frac{12}{163}\sqrt{70}e^4 \otimes e_5 + \frac{12}{163}\sqrt{82}e^1 \otimes e_3$	{23468, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:142	$0, 0, 0, 0, 0, \frac{8}{551}\sqrt{1938e^{12}}, \frac{8}{551}\sqrt{1037e^{13}}, \frac{16}{551}\sqrt{663e^{14}} + \frac{8}{551}\sqrt{391e^{26}},$ $\frac{8}{551}\sqrt{1938e^{17}} + \frac{8}{551}\sqrt{1037e^{45}}$	$(\frac{12}{29}, -\frac{4}{551}, -\frac{316}{551}, -\frac{8}{551}, \frac{148}{551}, \frac{224}{551}, -\frac{88}{551}, \frac{220}{551}, \frac{140}{551})$ $+ \frac{32}{551}\sqrt{493e^1} \otimes e_3$	{12459, 14569, 23468, 348}
942:142	$0, 0, 0, 0, 0, \frac{16}{103}\sqrt{6e^{12}}, \frac{48}{103}e^{13}, \frac{64}{103}\sqrt{3e^{14}} + \frac{16}{103}\sqrt{11e^{26}},$ $\frac{16}{103}\sqrt{6e^{17}} + \frac{48}{103}e^{45}$	$(-\frac{12}{103}, \frac{32}{103}, \frac{24}{103}, \frac{64}{103}, -\frac{64}{103}, \frac{20}{103}, \frac{12}{103}, \frac{52}{103}, 0)$ $+ \frac{32}{103}\sqrt{22e^4} \otimes e_5$	{12568, 158, 257, 567}
942:142	$0, 0, 0, 0, 0, \frac{8}{251}\sqrt{74e^{12}}, \frac{8}{251}\sqrt{31e^{13}}, \frac{16}{251}\sqrt{23e^{14}} + \frac{56}{753}\sqrt{21e^{26}},$ $\frac{8}{753}\sqrt{426e^{17}} + \frac{8}{753}\sqrt{759e^{45}}$	$(-\frac{28}{251}, \frac{20}{251}, \frac{44}{251}, \frac{40}{251}, -\frac{52}{251}, -\frac{8}{251}, \frac{16}{251}, \frac{12}{251}, -\frac{12}{251})$ $+ \frac{32}{251}\sqrt{11e^2} \otimes e_9 + \frac{64}{753}\sqrt{6e^3} \otimes e_8$	{124578, 3479}
942:142	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2e^{12}}, \frac{4}{85}\sqrt{55e^{13}}, \frac{8}{85}\sqrt{35e^{14}} + \frac{4}{255}\sqrt{345e^{26}},$ $\frac{8}{255}\sqrt{15e^{17}} + \frac{4}{255}\sqrt{285e^{45}}$	$(-\frac{4}{17}, \frac{2}{17}, \frac{8}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, 0, 0)$ $+ \frac{4}{51}\sqrt{78e^3} \otimes e_8 + \frac{4}{85}\sqrt{170e^4} \otimes e_5$	{12346, 134}
942:142	$0, 0, 0, 0, 0, \frac{8}{187}\sqrt{74e^{12}}, \frac{8}{187}\sqrt{15e^{13}}, \frac{16}{187}\sqrt{23e^{14}} + \frac{8}{187}\sqrt{93e^{26}},$ $\frac{8}{187}\sqrt{42e^{17}} + \frac{8}{187}\sqrt{79e^{45}}$	$(-\frac{12}{187}, \frac{20}{187}, \frac{12}{187}, \frac{40}{187}, -\frac{52}{187}, \frac{8}{187}, 0, \frac{28}{187}, -\frac{12}{187})$ $+ \frac{32}{187}\sqrt{10e^2} \otimes e_9$	{124578, 134689, 2456, 3479}
942:143	$0, 0, 0, 0, 0, \frac{116}{3049}\sqrt{106e^{12}}, \frac{29}{3049}\sqrt{1614e^{13}},$ $\frac{29}{3049}\sqrt{2634e^{16}} + \frac{29}{3049}\sqrt{3862e^{24}}, \frac{29}{3049}\sqrt{2938e^{17}} + \frac{29}{3049}\sqrt{1158e^{45}}$	$(\frac{145}{3049}, \frac{580}{3049}, -\frac{551}{3049}, \frac{290}{3049}, -\frac{551}{3049}, \frac{725}{3049}, -\frac{406}{3049}, \frac{870}{3049}, -\frac{261}{3049})$ $+ \frac{174}{3049}\sqrt{77e^4} \otimes e_5 + \frac{29}{3049}\sqrt{2814e^2} \otimes e_9$	{125678, 258}
942:143	$0, 0, 0, 0, 0, \frac{44}{1073}\sqrt{149e^{12}}, \frac{396}{1073}e^{13}, \frac{22}{1073}\sqrt{474e^{16}} + \frac{66}{1073}\sqrt{33e^{24}},$ $\frac{22}{1073}\sqrt{94e^{17}} + \frac{22}{1073}\sqrt{285e^{45}}$	$(\frac{55}{1073}, \frac{165}{1073}, -\frac{187}{1073}, \frac{110}{1073}, -\frac{187}{1073}, \frac{220}{1073}, -\frac{132}{1073}, \frac{275}{1073}, -\frac{77}{1073})$ $+ \frac{22}{1073}\sqrt{366e^2} \otimes e_9 + \frac{66}{1073}\sqrt{609e^1} \otimes e_3$	{12458, 349}
942:143	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{77e^{12}}, \frac{2}{47}\sqrt{42e^{13}}, \frac{4}{47}\sqrt{21e^{16}} + \frac{1}{47}\sqrt{70e^{24}},$ $\frac{2}{47}\sqrt{35e^{17}} + \frac{1}{47}\sqrt{462e^{45}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{1}{47}\sqrt{546e^2} \otimes e_9 - \frac{3}{47}\sqrt{70e^5} \otimes e_8$	{128, 135679, 2678, 359}
942:143	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{77e^{12}}, \frac{2}{47}\sqrt{42e^{13}}, \frac{4}{47}\sqrt{21e^{16}} + \frac{1}{47}\sqrt{70e^{24}},$ $\frac{2}{47}\sqrt{35e^{17}} + \frac{1}{47}\sqrt{462e^{45}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{1}{47}\sqrt{546e^2} \otimes e_9 + \frac{3}{47}\sqrt{70e^5} \otimes e_8$	{128, 135679, 2678, 359}
942:143	$0, 0, 0, 0, 0, \frac{1}{193}\sqrt{24738e^{12}}, \frac{6}{193}\sqrt{798e^{13}}, \frac{38}{193}\sqrt{7e^{16}} + \frac{1}{193}\sqrt{33782e^{24}},$ $\frac{12}{193}\sqrt{133e^{17}} + \frac{19}{193}\sqrt{42e^{45}}$	$(-\frac{21}{193}, -\frac{6}{193}, \frac{85}{193}, -\frac{42}{193}, \frac{85}{193}, -\frac{27}{193}, \frac{64}{193}, -\frac{48}{193}, \frac{43}{193})$ $+ \frac{1}{193}\sqrt{43890e^3} \otimes e_8$	{125678, 139, 258, 3679}
942:143	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{870e^{12}}, \frac{1}{37}\sqrt{570e^{13}}, \frac{1}{37}\sqrt{870e^{16}} + \frac{1}{37}\sqrt{870e^{24}},$ $\frac{3}{37}\sqrt{58e^{17}} + \frac{1}{37}\sqrt{474e^{45}}$	$(0, \frac{5}{37}, -\frac{3}{37}, 0, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37})$ $+ \frac{1}{37}\sqrt{426e^4} \otimes e_5 + \frac{1}{37}\sqrt{618e^1} \otimes e_3$	{12458, 1456}
942:143	$0, 0, 0, 0, 0, \frac{20}{1361}\sqrt{226e^{12}}, \frac{20}{1361}\sqrt{159e^{13}},$ $\frac{10}{1361}\sqrt{1090e^{16}} + \frac{10}{1361}\sqrt{663e^{24}}, \frac{10}{1361}\sqrt{610e^{17}} + \frac{30}{1361}\sqrt{71e^{45}}$	$(\frac{55}{1361}, -\frac{155}{1361}, \frac{5}{1361}, \frac{110}{1361}, \frac{5}{1361}, -\frac{100}{1361}, \frac{60}{1361}, -\frac{45}{1361}, \frac{115}{1361})$ $+ \frac{10}{1361}\sqrt{717e^1} \otimes e_3 + \frac{30}{1361}\sqrt{62e^5} \otimes e_8$	{1456, 234689}
942:143	$0, 0, 0, 0, 0, \frac{4}{367}\sqrt{6391e^{12}}, \frac{16}{367}\sqrt{249e^{13}},$ $\frac{4}{367}\sqrt{6391e^{16}} + \frac{2}{367}\sqrt{19671e^{24}}, \frac{16}{367}\sqrt{166e^{17}} + \frac{6}{367}\sqrt{1245e^{45}}$	$(\frac{71}{367}, -\frac{31}{367}, -\frac{95}{367}, \frac{142}{367}, -\frac{95}{367}, \frac{40}{367}, -\frac{24}{367}, \frac{111}{367}, \frac{47}{367})$ $+ \frac{2}{367}\sqrt{27141e^1} \otimes e_3$	{12458, 1456, 234689, 349}
942:143	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{322e^{12}}, \frac{1}{47}\sqrt{462e^{13}}, \frac{7}{47}\sqrt{6e^{16}} + \frac{10}{47}\sqrt{7e^{24}},$ $\frac{7}{47}\sqrt{10e^{17}} + \frac{2}{47}\sqrt{42e^{45}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{1}{47}\sqrt{546e^2} \otimes e_9 + \frac{3}{47}\sqrt{70e^3} \otimes e_8$	{125678, 139, 258, 3679}
942:143	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{322e^{12}}, \frac{1}{47}\sqrt{462e^{13}}, \frac{7}{47}\sqrt{6e^{16}} + \frac{10}{47}\sqrt{7e^{24}},$ $\frac{7}{47}\sqrt{10e^{17}} + \frac{2}{47}\sqrt{42e^{45}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47}, -\frac{3}{47})$ $+ \frac{1}{47}\sqrt{546e^2} \otimes e_9 - \frac{3}{47}\sqrt{70e^3} \otimes e_8$	{125678, 139, 258, 3679}
942:143	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{23e^{12}}, \frac{1}{29}\sqrt{138e^{13}}, \frac{2}{29}\sqrt{69e^{16}} + \frac{2}{29}\sqrt{115e^{24}},$ $\frac{2}{29}\sqrt{115e^{17}} + \frac{1}{29}\sqrt{138e^{45}}$	$(-\frac{4}{29}, \frac{17}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{13}{29}, -\frac{2}{29}, \frac{9}{29}, -\frac{6}{29})$ $+ \frac{2}{29}\sqrt{69e^2} \otimes e_9$	{12457, 134689, 2456, 34789}
942:143	$0, 0, 0, 0, 0, \frac{17}{3469}\sqrt{4138e^{12}}, \frac{136}{3469}\sqrt{57e^{13}},$ $\frac{102}{3469}\sqrt{83e^{16}} + \frac{17}{3469}\sqrt{5662e^{24}}, \frac{68}{3469}\sqrt{217e^{17}} + \frac{17}{3469}\sqrt{2922e^{45}}$	$(\frac{187}{3469}, -\frac{578}{3469}, \frac{85}{3469}, \frac{374}{3469}, \frac{85}{3469}, -\frac{391}{3469}, \frac{272}{3469}, -\frac{204}{3469}, \frac{459}{3469})$ $+ \frac{68}{3469}\sqrt{195e^4} \otimes e_5 + \frac{85}{3469}\sqrt{138e^3} \otimes e_8$	{125678, 258}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:143	$0, 0, 0, 0, 0, \frac{12}{193}\sqrt{133e^{12}}, \frac{19}{193}\sqrt{42e^{13}}, \frac{1}{193}\sqrt{33782e^{16}} + \frac{38}{193}\sqrt{7e^{24}},$ $\frac{1}{193}\sqrt{24738e^{17}} + \frac{6}{193}\sqrt{798e^{45}}$	$(-\frac{21}{193}, -\frac{6}{193}, \frac{85}{193}, -\frac{42}{193}, \frac{85}{193}, -\frac{27}{193}, \frac{64}{193}, -\frac{48}{193}, \frac{43}{193})$ $+ \frac{1}{193}\sqrt{43890e^5} \otimes e_8$	{1234789, 1456, 234689, 457}
942:143	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{33338e^{12}}, \frac{4}{361}\sqrt{6162e^{13}},$ $\frac{2}{361}\sqrt{33338e^{16}} + \frac{4}{361}\sqrt{12403e^{24}}, \frac{2}{361}\sqrt{33022e^{17}} + \frac{2}{361}\sqrt{25122e^{45}}$	$(\frac{103}{361}, -\frac{3}{19}, -\frac{110}{361}, \frac{206}{361}, -\frac{110}{361}, \frac{46}{361}, -\frac{7}{361}, \frac{149}{361}, \frac{96}{361})$ $+ \frac{6}{361}\sqrt{5530e^4} \otimes e_5$	{125678, 157, 258, 56}
942:144	$0, 0, 0, 0, 0, \frac{16}{3451}\sqrt{6105e^{12}}, \frac{8}{3451}\sqrt{55715e^{13}},$ $\frac{16}{3451}\sqrt{11770e^{14}} + \frac{40}{3451}\sqrt{1903e^{26}}, \frac{8}{3451}\sqrt{73370e^{37}} + \frac{8}{3451}\sqrt{30305e^{45}}$	$(-\frac{888}{3451}, \frac{4}{119}, \frac{1104}{3451}, \frac{8}{119}, \frac{64}{203}, -\frac{772}{3451}, \frac{216}{3451}, \frac{656}{3451}, \frac{1320}{3451})$ $+ \frac{8}{3451}\sqrt{160270e^3} \otimes e_8$	{1234569, 13459, 248, 468}
942:144	$0, 0, 0, 0, 0, \frac{4}{155}\sqrt{285e^{12}}, \frac{4}{155}\sqrt{285e^{13}}, \frac{12}{155}\sqrt{190e^{14}} + \frac{8}{155}\sqrt{95e^{26}},$ $\frac{2}{31}\sqrt{57e^{37}} + \frac{2}{155}\sqrt{1995e^{45}}$	$(-\frac{24}{155}, \frac{52}{155}, \frac{21}{155}, \frac{104}{155}, -\frac{86}{155}, \frac{28}{155}, -\frac{3}{155}, \frac{16}{31}, \frac{18}{155})$ $+ \frac{2}{155}\sqrt{12445e^4} \otimes e_5$	{1235678, 12568, 13578, 158}
942:144	$0, 0, 0, 0, 0, \frac{128}{467}e^{12}, \frac{16}{1401}\sqrt{669e^{13}}, \frac{32}{1401}\sqrt{366e^{14}} + \frac{16}{467}\sqrt{53e^{26}},$ $\frac{16}{1401}\sqrt{1218e^{37}} + \frac{16}{1401}\sqrt{759e^{45}}$	$(-\frac{128}{467}, \frac{56}{467}, \frac{112}{467}, \frac{112}{467}, -\frac{16}{467}, -\frac{72}{467}, -\frac{16}{467}, -\frac{16}{467}, \frac{96}{467})$ $+ \frac{16}{1401}\sqrt{2490e^3} \otimes e_8 + \frac{32}{1401}\sqrt{327e^4} \otimes e_5$	{248, 468}
942:144	$0, 0, 0, 0, 0, \frac{2}{1043}\sqrt{334e^{12}}, \frac{2}{1043}\sqrt{13e^{13}}, \frac{1}{1043}\sqrt{1030e^{14}} + \frac{17}{1043}\sqrt{6e^{26}},$ $\frac{9}{1043}\sqrt{6e^{37}} + \frac{2}{1043}\sqrt{393e^{45}}$	$(\frac{26}{1043}, -\frac{10}{1043}, -\frac{19}{1043}, -\frac{20}{1043}, \frac{8}{1043}, \frac{16}{1043}, \frac{1}{1043}, \frac{6}{149}, -\frac{12}{1043})$ $+ \frac{1}{1043}\sqrt{1142e^5} \otimes e_8 + \frac{2}{1043}\sqrt{642e^2} \otimes e_9$	{134689, 146789, 234567, 2456}
942:144	$0, 0, 0, 0, 0, \frac{2}{1043}\sqrt{334e^{12}}, \frac{2}{1043}\sqrt{13e^{13}}, \frac{1}{1043}\sqrt{1030e^{14}} + \frac{17}{1043}\sqrt{6e^{26}},$ $\frac{9}{1043}\sqrt{6e^{37}} + \frac{2}{1043}\sqrt{393e^{45}}$	$(\frac{26}{1043}, -\frac{10}{1043}, -\frac{19}{1043}, -\frac{20}{1043}, \frac{8}{1043}, \frac{16}{1043}, \frac{1}{1043}, \frac{6}{149}, -\frac{12}{1043})$ $- \frac{1}{1043}\sqrt{1142e^5} \otimes e_8 + \frac{2}{1043}\sqrt{642e^2} \otimes e_9$	{134689, 146789, 234567, 2456}
942:144	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{33e^{12}}, \frac{1}{36}\sqrt{33e^{13}}, \frac{1}{12}\sqrt{33e^{14}} + \frac{1}{12}\sqrt{77e^{26}},$ $\frac{1}{12}\sqrt{11e^{37}} + \frac{1}{36}\sqrt{6e^{45}}$	$(\frac{1}{36}, -\frac{1}{8}, \frac{5}{24}, -\frac{1}{4}, \frac{25}{36}, -\frac{7}{72}, \frac{17}{72}, -\frac{2}{9}, \frac{4}{9})$ $+ \frac{1}{36}\sqrt{1947e^5} \otimes e_8$	{1238, 1278, 1368, 1678, 235679, 2569, 3579, 59}
942:144	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{33e^{12}}, \frac{1}{36}\sqrt{33e^{13}}, \frac{1}{12}\sqrt{33e^{14}} + \frac{1}{12}\sqrt{77e^{26}},$ $\frac{1}{12}\sqrt{11e^{37}} + \frac{1}{36}\sqrt{6e^{45}}$	$(\frac{1}{36}, -\frac{1}{8}, \frac{5}{24}, -\frac{1}{4}, \frac{25}{36}, -\frac{7}{72}, \frac{17}{72}, -\frac{2}{9}, \frac{4}{9})$ $- \frac{1}{36}\sqrt{1947e^5} \otimes e_8$	{1238, 1278, 1368, 1678, 235679, 2569, 3579, 59}
942:144	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{222e^{12}}, \frac{12}{157}\sqrt{3e^{13}}, \frac{16}{157}\sqrt{15e^{14}} + \frac{4}{157}\sqrt{231e^{26}},$ $\frac{6}{157}\sqrt{37e^{37}} + \frac{2}{157}\sqrt{813e^{45}}$	$(\frac{24}{157}, 0, -\frac{21}{157}, 0, -\frac{18}{157}, \frac{24}{157}, \frac{3}{157}, \frac{24}{157}, -\frac{18}{157})$ $+ \frac{2}{157}\sqrt{399e^4} \otimes e_5 + \frac{4}{157}\sqrt{390e^2} \otimes e_9$	{234567, 2456}
942:144	$0, 0, 0, 0, 0, \frac{4}{3547}\sqrt{128138e^{12}}, \frac{4}{3547}\sqrt{8769e^{13}},$ $\frac{4}{3547}\sqrt{112970e^{14}} + \frac{316}{3547}\sqrt{21e^{26}}, \frac{8}{3547}\sqrt{13983e^{37}} + \frac{4}{3547}\sqrt{112417e^{45}}$	$(\frac{222}{3547}, \frac{266}{3547}, -\frac{294}{3547}, \frac{532}{3547}, -\frac{898}{3547}, \frac{488}{3547}, -\frac{72}{3547}, \frac{754}{3547}, -\frac{366}{3547})$ $+ \frac{4}{3547}\sqrt{238738e^2} \otimes e_9$	{134689, 146789, 234567, 2456}
942:144	$0, 0, 0, 0, 0, \frac{4}{879}\sqrt{642e^{12}}, \frac{4}{879}\sqrt{321e^{13}}, \frac{20}{293}\sqrt{2e^{14}} + \frac{28}{879}\sqrt{21e^{26}},$ $\frac{8}{879}\sqrt{177e^{37}} + \frac{4}{293}\sqrt{57e^{45}}$	$(-\frac{22}{293}, \frac{14}{293}, \frac{14}{293}, \frac{28}{293}, -\frac{22}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{879}\sqrt{1482e^2} \otimes e_9 + \frac{8}{879}\sqrt{210e^3} \otimes e_8$	{146789, 234567}
942:145	$0, 0, 0, 0, 0, \frac{4}{375}\sqrt{682e^{12}}, \frac{1}{375}\sqrt{15686e^{13}},$ $\frac{1}{375}\sqrt{81158e^{16}} + \frac{1}{375}\sqrt{27962e^{24}}, \frac{1}{375}\sqrt{11594e^{37}} + \frac{1}{125}\sqrt{8866e^{45}}$	$(-\frac{46}{375}, \frac{3}{125}, \frac{106}{375}, -\frac{92}{375}, \frac{86}{125}, -\frac{37}{375}, \frac{4}{25}, -\frac{83}{375}, \frac{166}{375})$ $+ \frac{1}{375}\sqrt{210738e^5} \otimes e_8$	{135679, 1569, 2368, 2678}
942:145	$0, 0, 0, 0, 0, \frac{2}{777}\sqrt{63787e^{12}}, \frac{2}{777}\sqrt{9554e^{13}},$ $\frac{1}{777}\sqrt{16298e^{16}} + \frac{2}{777}\sqrt{36530e^{24}}, \frac{1}{777}\sqrt{236602e^{37}} + \frac{1}{777}\sqrt{163542e^{45}}$	$(-\frac{68}{777}, \frac{20}{37}, -\frac{1}{21}, -\frac{136}{777}, -\frac{2}{259}, \frac{352}{777}, -\frac{5}{37}, \frac{284}{777}, -\frac{142}{777})$ $+ \frac{5}{777}\sqrt{28662e^2} \otimes e_9$	{12378, 128, 359, 579}
942:145	$0, 0, 0, 0, 0, \frac{49}{242}\sqrt{2e^{12}}, \frac{7}{121}\sqrt{7e^{13}}, \frac{7}{242}\sqrt{73e^{16}} + \frac{35}{121}\sqrt{3e^{24}},$ $\frac{7}{242}\sqrt{193e^{37}} + \frac{7}{242}\sqrt{43e^{45}}$	$(\frac{7}{121}, \frac{28}{121}, -\frac{14}{121}, \frac{14}{121}, -\frac{35}{121}, \frac{35}{121}, -\frac{7}{121}, \frac{42}{121}, -\frac{21}{121})$ $+ \frac{21}{242}\sqrt{57e^2} \otimes e_9 + \frac{7}{242}\sqrt{346e^4} \otimes e_5$	{134689, 146789}
942:145	$0, 0, 0, 0, 0, \frac{4}{899}\sqrt{73e^{12}}, \frac{2}{899}\sqrt{5e^{13}}, \frac{1}{899}\sqrt{1498e^{16}} + \frac{1}{899}\sqrt{878e^{24}},$ $\frac{1}{899}\sqrt{418e^{37}} + \frac{26}{899}\sqrt{2e^{45}}$	$(-\frac{10}{899}, \frac{26}{899}, -\frac{1}{899}, -\frac{20}{899}, \frac{8}{899}, \frac{16}{899}, -\frac{11}{899}, \frac{6}{899}, -\frac{12}{899})$ $+ \frac{2}{899}\sqrt{553e^1} \otimes e_9 + \frac{3}{899}\sqrt{110e^5} \otimes e_8$	{134567, 1456, 234689, 246789}
942:145	$0, 0, 0, 0, 0, \frac{4}{899}\sqrt{73e^{12}}, \frac{2}{899}\sqrt{5e^{13}}, \frac{1}{899}\sqrt{1498e^{16}} + \frac{1}{899}\sqrt{878e^{24}},$ $\frac{1}{899}\sqrt{418e^{37}} + \frac{26}{899}\sqrt{2e^{45}}$	$(-\frac{10}{899}, \frac{26}{899}, -\frac{1}{899}, -\frac{20}{899}, \frac{8}{899}, \frac{16}{899}, -\frac{11}{899}, \frac{6}{899}, -\frac{12}{899})$ $- \frac{2}{899}\sqrt{553e^1} \otimes e_9 + \frac{3}{899}\sqrt{110e^5} \otimes e_8$	{134567, 1456, 234689, 246789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:145	$0, 0, 0, 0, 0, \frac{117}{1621}\sqrt{2}e^{12}, \frac{26}{1621}\sqrt{185}e^{13},$ $\frac{52}{1621}\sqrt{3}e^{16} + \frac{13}{1621}\sqrt{1222}e^{24}, \frac{52}{1621}\sqrt{74}e^{37} + \frac{13}{1621}\sqrt{310}e^{45}$	$(-\frac{143}{1621}, \frac{208}{1621}, \frac{91}{1621}, -\frac{286}{1621}, \frac{325}{1621}, \frac{65}{1621}, -\frac{52}{1621}, -\frac{78}{1621}, \frac{39}{1621})$ $+ \frac{13}{1621}\sqrt{1766}e^3 \otimes e_8 + \frac{52}{1621}\sqrt{71}e^2 \otimes e_9$	{145789, 2347}
942:145	$0, 0, 0, 0, 0, \frac{5}{1467}\sqrt{16530}e^{12}, \frac{2}{1467}\sqrt{164749}e^{13},$ $\frac{4}{1467}\sqrt{3306}e^{16} + \frac{145}{1467}\sqrt{38}e^{24}, \frac{4}{1467}\sqrt{42427}e^{37} + \frac{1}{1467}\sqrt{419862}e^{45}$	$(-\frac{73}{1467}, -\frac{152}{1467}, \frac{253}{1467}, -\frac{146}{1467}, \frac{193}{1467}, -\frac{25}{1467}, \frac{20}{1467}, -\frac{298}{1467}, \frac{433}{1467})$ $+ \frac{1}{1467}\sqrt{155382}e^3 \otimes e_8$	{1234569, 145789, 2347, 468}
942:145	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{58}e^{12}, \frac{4}{49}\sqrt{58}e^{13}, \frac{4}{49}\sqrt{58}e^{16} + \frac{4}{49}\sqrt{174}e^{24},$ $\frac{2}{49}\sqrt{145}e^{37} + \frac{2}{49}\sqrt{203}e^{45}$	$(\frac{16}{49}, -\frac{8}{49}, -\frac{5}{49}, \frac{32}{49}, -\frac{26}{49}, \frac{8}{49}, \frac{11}{49}, \frac{24}{49}, \frac{6}{49})$ $+ \frac{2}{49}\sqrt{1189}e^4 \otimes e_5$	{23578, 258, 3567, 56}
942:145	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{4}{87}\sqrt{39}e^{16} + \frac{10}{87}\sqrt{6}e^{24},$ $\frac{4}{87}\sqrt{30}e^{37} + \frac{2}{87}\sqrt{258}e^{45}$	$(-\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, \frac{4}{29}, -\frac{2}{29}, 0, 0)$ $+ \frac{2}{87}\sqrt{426}e^5 \otimes e_8 + \frac{2}{87}\sqrt{498}e^2 \otimes e_9$	{12378, 128, 359, 579}
942:145	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{4}{87}\sqrt{39}e^{16} + \frac{10}{87}\sqrt{6}e^{24},$ $\frac{4}{87}\sqrt{30}e^{37} + \frac{2}{87}\sqrt{258}e^{45}$	$(-\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, \frac{4}{29}, -\frac{2}{29}, 0, 0)$ $- \frac{2}{87}\sqrt{426}e^5 \otimes e_8 + \frac{2}{87}\sqrt{498}e^2 \otimes e_9$	{12378, 128, 359, 579}
942:145	$0, 0, 0, 0, 0, \frac{1}{281}\sqrt{4234}e^{12}, \frac{2}{281}\sqrt{1363}e^{13}, \frac{4}{281}\sqrt{58}e^{16} + \frac{7}{281}\sqrt{174}e^{24},$ $\frac{4}{281}\sqrt{319}e^{37} + \frac{1}{281}\sqrt{4118}e^{45}$	$(\frac{17}{281}, -\frac{52}{281}, \frac{11}{281}, \frac{34}{281}, \frac{5}{281}, -\frac{35}{281}, \frac{28}{281}, -\frac{18}{281}, \frac{39}{281})$ $+ \frac{3}{281}\sqrt{1102}e^3 \otimes e_8 + \frac{4}{281}\sqrt{319}e^4 \otimes e_5$	{258, 3567}
942:146	$0, 0, 0, 0, 0, \frac{10}{477}\sqrt{1302}e^{12}, \frac{2}{477}\sqrt{4991}e^{13}, \frac{2}{159}\sqrt{651}e^{16} + \frac{2}{477}\sqrt{4991}e^{34},$ $\frac{10}{477}\sqrt{434}e^{17} + \frac{10}{477}\sqrt{1302}e^{45}$	$(-\frac{119}{477}, \frac{109}{159}, \frac{131}{477}, -\frac{14}{159}, -\frac{65}{477}, \frac{208}{477}, \frac{4}{159}, \frac{89}{477}, -\frac{107}{477})$ $+ \frac{28}{477}\sqrt{434}e^2 \otimes e_9$	{1234578, 1469, 234568, 479}
942:146	$0, 0, 0, 0, 0, \frac{1}{1113}\sqrt{112094}e^{12}, \frac{4}{1113}\sqrt{1367}e^{13},$ $\frac{4}{1113}\sqrt{20505}e^{16} + \frac{1}{1113}\sqrt{1320522}e^{34}, \frac{4}{1113}\sqrt{374558}e^{17} + \frac{4}{371}\sqrt{2734}e^{45}$	$(\frac{202}{1113}, \frac{7}{53}, -\frac{223}{1113}, \frac{258}{371}, -\frac{593}{1113}, \frac{349}{1113}, -\frac{1}{53}, \frac{551}{1113}, \frac{181}{1113})$ $+ \frac{5}{1113}\sqrt{101158}e^4 \otimes e_5$	{12347, 135678, 2346, 358}
942:146	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{190}e^{12}, \frac{38}{47}e^{13}, \frac{2}{47}\sqrt{95}e^{16} + \frac{2}{47}\sqrt{95}e^{34},$ $\frac{6}{47}\sqrt{38}e^{17} + \frac{2}{47}\sqrt{38}e^{45}$	$(\frac{15}{47}, -\frac{23}{47}, -\frac{7}{47}, \frac{14}{47}, \frac{9}{47}, -\frac{8}{47}, \frac{8}{47}, \frac{7}{47}, \frac{23}{47})$ $+ \frac{4}{47}\sqrt{190}e^1 \otimes e_2$	{134589, 1578, 2379, 24}
942:146	$0, 0, 0, 0, 0, \frac{13}{295}\sqrt{82}e^{12}, \frac{26}{295}\sqrt{34}e^{13}, \frac{26}{295}\sqrt{2}e^{16} + \frac{13}{295}\sqrt{58}e^{34},$ $\frac{13}{295}\sqrt{174}e^{17} + \frac{26}{295}\sqrt{14}e^{45}$	$(\frac{78}{295}, -\frac{91}{295}, -\frac{13}{59}, \frac{26}{59}, -\frac{39}{295}, -\frac{13}{295}, \frac{13}{295}, \frac{13}{59}, \frac{91}{295})$ $+ \frac{26}{295}\sqrt{82}e^1 \otimes e_2 + \frac{39}{295}\sqrt{22}e^4 \otimes e_5$	{1478, 25}
942:146	$0, 0, 0, 0, 0, \frac{38}{1839}\sqrt{534}e^{12}, \frac{38}{1839}\sqrt{186}e^{13},$ $\frac{19}{613}\sqrt{34}e^{16} + \frac{19}{1839}\sqrt{1722}e^{34}, \frac{38}{613}\sqrt{35}e^{17} + \frac{19}{613}\sqrt{146}e^{45}$	$(-\frac{57}{613}, \frac{266}{613}, \frac{19}{613}, \frac{133}{613}, -\frac{228}{613}, \frac{209}{613}, -\frac{38}{613}, \frac{152}{613}, -\frac{95}{613})$ $+ \frac{19}{1839}\sqrt{4110}e^4 \otimes e_5 + \frac{38}{1839}\sqrt{1401}e^2 \otimes e_9$	{14689, 4789}
942:147	$0, 0, 0, 0, 0, \frac{16}{861}\sqrt{618}e^{12}, \frac{16}{861}\sqrt{21}e^{13}, \frac{16}{287}\sqrt{85}e^{26} + \frac{128}{861}\sqrt{3}e^{34},$ $\frac{16}{287}\sqrt{30}e^{17} + \frac{80}{287}\sqrt{3}e^{45}$	$(-\frac{8}{41}, \frac{80}{287}, \frac{64}{287}, \frac{40}{287}, -\frac{88}{287}, \frac{24}{287}, \frac{8}{287}, \frac{104}{287}, -\frac{48}{287})$ $+ \frac{32}{861}\sqrt{435}e^2 \otimes e_9 + \frac{64}{861}\sqrt{30}e^4 \otimes e_5$	{15689, 479}
942:147	$0, 0, 0, 0, 0, \frac{16}{3331}\sqrt{12298}e^{12}, \frac{16}{3331}\sqrt{1339}e^{13},$ $\frac{16}{3331}\sqrt{17485}e^{26} + \frac{128}{3331}\sqrt{143}e^{34}, \frac{208}{3331}\sqrt{30}e^{17} + \frac{144}{3331}\sqrt{195}e^{45}$	$(-\frac{888}{3331}, \frac{1040}{3331}, \frac{1152}{3331}, \frac{40}{3331}, -\frac{664}{3331}, \frac{152}{3331}, \frac{264}{3331}, \frac{1192}{3331}, -\frac{624}{3331})$ $+ \frac{32}{3331}\sqrt{9035}e^2 \otimes e_9$	{1278, 134689, 2456, 3579}
942:147	$0, 0, 0, 0, 0, \frac{8}{599}\sqrt{966}e^{12}, \frac{184}{599}\sqrt{3}e^{13}, \frac{8}{599}\sqrt{1265}e^{26} + \frac{16}{599}\sqrt{1518}e^{34},$ $\frac{8}{599}\sqrt{966}e^{17} + \frac{8}{599}\sqrt{3}e^{45}$	$(\frac{84}{599}, \frac{112}{599}, -\frac{96}{599}, \frac{404}{599}, -\frac{332}{599}, \frac{196}{599}, -\frac{12}{599}, \frac{308}{599}, \frac{72}{599})$ $+ \frac{80}{599}\sqrt{115}e^4 \otimes e_5$	{12347, 13467, 23568, 358}
942:148	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{930}e^{12}, \frac{2}{43}\sqrt{31}e^{13}, \frac{1}{43}\sqrt{341}e^{16} + \frac{1}{43}\sqrt{434}e^{34},$ $\frac{5}{43}\sqrt{31}e^{37} + \frac{5}{43}\sqrt{31}e^{45}$	$(-\frac{11}{43}, \frac{28}{43}, \frac{4}{43}, \frac{2}{43}, -\frac{5}{43}, \frac{17}{43}, -\frac{7}{43}, \frac{6}{43}, -\frac{3}{43})$ $+ \frac{1}{43}\sqrt{2201}e^2 \otimes e_9$	{1234578, 128, 359, 479}
942:148	$0, 0, 0, 0, 0, \frac{5}{401}\sqrt{930}e^{12}, \frac{10}{401}\sqrt{115}e^{13}, \frac{65}{401}\sqrt{5}e^{16} + \frac{5}{401}\sqrt{70}e^{34},$ $\frac{5}{401}\sqrt{355}e^{37} + \frac{5}{401}\sqrt{1195}e^{45}$	$(-\frac{85}{401}, \frac{140}{401}, \frac{50}{401}, -\frac{80}{401}, \frac{95}{401}, \frac{55}{401}, -\frac{35}{401}, -\frac{30}{401}, \frac{15}{401})$ $+ \frac{20}{401}\sqrt{105}e^5 \otimes e_8 + \frac{5}{401}\sqrt{1865}e^2 \otimes e_9$	{12378, 579}
942:148	$0, 0, 0, 0, 0, \frac{14}{345}\sqrt{5}e^{12}, \frac{7}{345}\sqrt{470}e^{13}, \frac{14}{345}\sqrt{115}e^{16} + \frac{7}{69}\sqrt{10}e^{34},$ $\frac{14}{345}\sqrt{10}e^{37} + \frac{14}{345}\sqrt{10}e^{45}$	$(\frac{119}{345}, -\frac{42}{115}, -\frac{7}{69}, \frac{49}{115}, -\frac{98}{345}, -\frac{7}{345}, \frac{28}{115}, \frac{112}{345}, \frac{49}{345})$ $+ \frac{7}{23}\sqrt{6}e^4 \otimes e_5 + \frac{91}{345}\sqrt{10}e^1 \otimes e_2$	{13589, 14789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:148	$0, 0, 0, 0, 0, \frac{20}{1107}\sqrt{554}e^{12}, \frac{2}{3321}\sqrt{729895}e^{13},$ $\frac{2}{3321}\sqrt{1436245}e^{16} + \frac{2}{3321}\sqrt{1020745}e^{34}, \frac{28}{3321}\sqrt{2770}e^{37} + \frac{8}{3321}\sqrt{85870}e^{45}$	$(-\frac{317}{3321}, \frac{193}{3321}, \frac{245}{1107}, -\frac{392}{1107}, \frac{2329}{3321}, -\frac{124}{3321}, \frac{418}{3321}, -\frac{49}{369}, \frac{1153}{3321})$ $+\frac{8}{3321}\sqrt{239605}e^5 \otimes e_8$	{12489, 1569, 2368, 345}
942:148	$0, 0, 0, 0, 0, \frac{12}{205}\sqrt{5}e^{12}, \frac{6}{205}\sqrt{55}e^{13}, \frac{18}{205}\sqrt{35}e^{16} + \frac{6}{41}e^{34},$ $\frac{12}{205}\sqrt{10}e^{37} + \frac{6}{205}\sqrt{210}e^{45}$	$(\frac{27}{205}, -\frac{63}{205}, \frac{3}{41}, -\frac{24}{205}, \frac{81}{205}, -\frac{36}{205}, \frac{42}{205}, -\frac{9}{205}, \frac{57}{205})$ $+\frac{12}{41}\sqrt{5}e^5 \otimes e_8 + \frac{6}{205}\sqrt{410}e^1 \otimes e_2$	{13456, 24689}
942:148	$0, 0, 0, 0, 0, \frac{4}{165}\sqrt{170}e^{12}, \frac{2}{165}\sqrt{4505}e^{13}, \frac{14}{165}\sqrt{85}e^{16} + \frac{2}{33}\sqrt{119}e^{34},$ $\frac{8}{165}\sqrt{85}e^{37} + \frac{8}{165}\sqrt{85}e^{45}$	$(\frac{71}{165}, -\frac{3}{5}, -\frac{1}{33}, \frac{16}{55}, \frac{13}{165}, -\frac{28}{165}, \frac{2}{5}, \frac{43}{165}, \frac{61}{165})$ $+\frac{8}{165}\sqrt{10}e^1 \otimes e_2$	{13489, 15789, 237, 245}
942:148	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{210}e^{12}, \frac{2}{27}\sqrt{15}e^{13}, \frac{1}{9}\sqrt{5}e^{16} + \frac{1}{27}\sqrt{30}e^{34},$ $\frac{1}{9}\sqrt{15}e^{37} + \frac{1}{9}\sqrt{15}e^{45}$	$(-\frac{1}{9}, \frac{4}{9}, 0, \frac{2}{9}, -\frac{1}{3}, \frac{1}{3}, -\frac{1}{9}, \frac{2}{9}, -\frac{1}{9})$ $+\frac{1}{27}\sqrt{465}e^2 \otimes e_9 + \frac{4}{27}\sqrt{15}e^4 \otimes e_5$	{349, 579}
942:148	$0, 0, 0, 0, 0, \frac{1}{776}\sqrt{32810}e^{12}, \frac{1}{776}\sqrt{148610}e^{13},$ $\frac{1}{776}\sqrt{82990}e^{16} + \frac{3}{776}\sqrt{71410}e^{34}, \frac{1}{776}\sqrt{99395}e^{37} + \frac{1}{776}\sqrt{99395}e^{45}$	$(\frac{179}{776}, \frac{59}{776}, -\frac{155}{1552}, \frac{989}{1552}, -\frac{941}{1552}, \frac{119}{388}, \frac{203}{1552}, \frac{417}{776}, \frac{3}{97})$ $+\frac{1}{776}\sqrt{1252570}e^4 \otimes e_5$	{2346, 2567, 358, 478}
942:149	$0, 0, 0, 0, 0, \frac{4}{179}\sqrt{322}e^{12}, \frac{2}{179}\sqrt{253}e^{13}, \frac{8}{179}\sqrt{115}e^{26} + \frac{2}{179}\sqrt{1403}e^{34},$ $\frac{4}{179}\sqrt{345}e^{37} + \frac{4}{179}\sqrt{345}e^{45}$	$(-\frac{39}{179}, \frac{43}{179}, \frac{18}{179}, \frac{29}{179}, -\frac{32}{179}, \frac{4}{179}, -\frac{21}{179}, \frac{47}{179}, -\frac{3}{179})$ $+\frac{2}{179}\sqrt{3473}e^2 \otimes e_9$	{134689, 156789, 2367, 2456}
942:149	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{57}e^{12}, \frac{2}{155}\sqrt{1995}e^{13}, \frac{8}{155}\sqrt{95}e^{26} + \frac{12}{155}\sqrt{190}e^{34},$ $\frac{4}{155}\sqrt{285}e^{37} + \frac{4}{155}\sqrt{285}e^{45}$	$(\frac{6}{31}, \frac{5}{31}, -\frac{3}{31}, \frac{19}{31}, -\frac{19}{31}, \frac{11}{31}, \frac{3}{31}, \frac{16}{31}, 0)$ $+\frac{2}{155}\sqrt{12445}e^4 \otimes e_5$	{23568, 24678, 358, 478}
942:149	$0, 0, 0, 0, 0, \frac{8}{687}\sqrt{874}e^{12}, \frac{8}{687}\sqrt{323}e^{13}, \frac{8}{687}\sqrt{3553}e^{26} + \frac{8}{229}\sqrt{266}e^{34},$ $\frac{16}{229}\sqrt{38}e^{37} + \frac{8}{687}\sqrt{4009}e^{45}$	$(\frac{92}{687}, -\frac{112}{687}, \frac{28}{229}, -\frac{72}{229}, \frac{476}{687}, -\frac{20}{687}, \frac{176}{687}, -\frac{44}{229}, \frac{260}{687})$ $+\frac{8}{687}\sqrt{10754}e^5 \otimes e_8$	{12489, 14689, 23456, 345}
942:149	$0, 0, 0, 0, 0, \frac{4}{167}\sqrt{38}e^{12}, \frac{4}{167}\sqrt{3}e^{13}, \frac{4}{167}\sqrt{65}e^{26} + \frac{8}{167}\sqrt{7}e^{34},$ $\frac{4}{167}\sqrt{30}e^{37} + \frac{4}{167}\sqrt{55}e^{45}$	$(-\frac{22}{167}, \frac{14}{167}, \frac{14}{167}, -\frac{8}{167}, \frac{14}{167}, -\frac{8}{167}, \frac{6}{167}, \frac{6}{167})$ $+\frac{20}{167}\sqrt{2}e^5 \otimes e_8 + \frac{28}{167}\sqrt{2}e^2 \otimes e_9$	{134689, 2456}
942:149	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{6}e^{12}, \frac{1}{12}\sqrt{6}e^{13}, \frac{1}{2}e^{26} + \frac{1}{12}\sqrt{30}e^{34},$ $\frac{1}{4}\sqrt{3}e^{37} + \frac{1}{4}\sqrt{3}e^{45}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, 0, -\frac{1}{8}, \frac{1}{4}, 0)$ $+\frac{1}{12}\sqrt{66}e^2 \otimes e_9 + \frac{1}{12}\sqrt{6}e^4 \otimes e_5$	{2367, 2456}
942:150	$0, 0, 0, 0, 0, \frac{23}{513}\sqrt{222}e^{12}, \frac{23}{513}\sqrt{166}e^{13}, \frac{23}{513}\sqrt{14}e^{16} + \frac{23}{513}\sqrt{22}e^{23},$ $\frac{23}{513}\sqrt{362}e^{17} + \frac{92}{171}\sqrt{2}e^{24}$	$(-\frac{4}{513}, \frac{14}{171}, -\frac{8}{513}, -\frac{58}{513}, 1, \frac{2}{27}, -\frac{4}{171}, \frac{34}{513}, -\frac{16}{513})$ $+\frac{23}{513}\sqrt{854}e^5 \otimes e_9$	{1245678, 157, 2458, 56}
942:150	$0, 0, 0, 0, 0, \frac{5}{263}\sqrt{1182}e^{12}, \frac{1}{263}\sqrt{21867}e^{13},$ $\frac{1}{263}\sqrt{28565}e^{16} + \frac{1}{263}\sqrt{20094}e^{23}, \frac{1}{263}\sqrt{16154}e^{17} + \frac{1}{263}\sqrt{2955}e^{24}$	$(\frac{19}{263}, \frac{26}{263}, \frac{38}{263}, \frac{50}{263}, -\frac{178}{263}, \frac{45}{263}, \frac{57}{263}, \frac{64}{263}, \frac{76}{263})$ $+\frac{21}{263}\sqrt{197}e^1 \otimes e_5$	{123489, 1369, 23456789, 3579}
942:150	$0, 0, 0, 0, 0, \frac{23}{1194}\sqrt{14}e^{12}, \frac{23}{597}\sqrt{73}e^{13}, \frac{23}{1194}\sqrt{478}e^{16} + \frac{23}{597}\sqrt{247}e^{23},$ $\frac{23}{1194}\sqrt{357}e^{17} + \frac{23}{597}\sqrt{94}e^{24}$	$(\frac{23}{1194}, \frac{207}{796}, \frac{23}{597}, -\frac{437}{2388}, -\frac{161}{398}, \frac{667}{2388}, \frac{23}{398}, \frac{713}{2388}, \frac{46}{597})$ $+\frac{23}{1194}\sqrt{1169}e^3 \otimes e_5 + \frac{23}{597}\sqrt{254}e^2 \otimes e_4$	{125678, 1457, 258, 456}
942:150	$0, 0, 0, 0, 0, \frac{23}{1194}\sqrt{14}e^{12}, \frac{23}{597}\sqrt{73}e^{13}, \frac{23}{1194}\sqrt{478}e^{16} + \frac{23}{597}\sqrt{247}e^{23},$ $\frac{23}{1194}\sqrt{357}e^{17} + \frac{23}{597}\sqrt{94}e^{24}$	$(\frac{23}{1194}, \frac{207}{796}, \frac{23}{597}, -\frac{437}{2388}, -\frac{161}{398}, \frac{667}{2388}, \frac{23}{398}, \frac{713}{2388}, \frac{46}{597})$ $+\frac{23}{1194}\sqrt{1169}e^3 \otimes e_5 - \frac{23}{597}\sqrt{254}e^2 \otimes e_4$	{125678, 1457, 258, 456}
942:150	$0, 0, 0, 0, 0, \frac{145}{494}\sqrt{6}e^{12}, \frac{1}{247}\sqrt{42195}e^{13},$ $\frac{1}{494}\sqrt{140070}e^{16} + \frac{1}{247}\sqrt{47415}e^{23}, \frac{1}{494}\sqrt{123105}e^{17} + \frac{6}{247}\sqrt{290}e^{24}$	$(\frac{41}{494}, \frac{7}{247}, \frac{41}{494}, \frac{237}{988}, -\frac{353}{494}, \frac{173}{988}, \frac{123}{494}, \frac{255}{988}, \frac{82}{247})$ $+\frac{11}{494}\sqrt{3045}e^3 \otimes e_5$	{125678, 1457, 258, 456}
942:150	$0, 0, 0, 0, 0, \frac{4}{2017}\sqrt{22953}e^{12}, \frac{2}{2017}\sqrt{343202}e^{13},$ $\frac{2}{2017}\sqrt{679846}e^{16} + \frac{2}{2017}\sqrt{618638}e^{23}, \frac{2}{2017}\sqrt{110393}e^{17} + \frac{2}{2017}\sqrt{79789}e^{24}$	$(\frac{39}{2017}, -\frac{247}{2017}, \frac{78}{2017}, \frac{403}{2017}, 1, -\frac{208}{2017}, \frac{117}{2017}, -\frac{169}{2017}, \frac{156}{2017})$ $+\frac{2}{2017}\sqrt{1843891}e^5 \otimes e_8$	{128, 1456, 2678, 457}
942:150	$0, 0, 0, 0, 0, \frac{2}{2025}\sqrt{57086}e^{12}, \frac{14}{2025}\sqrt{3723}e^{13},$ $\frac{22}{2025}\sqrt{2482}e^{16} + \frac{2}{2025}\sqrt{353685}e^{23}, \frac{4}{2025}\sqrt{73219}e^{17} + \frac{8}{675}\sqrt{7446}e^{24}$	$(\frac{49}{405}, -\frac{181}{2025}, \frac{98}{405}, \frac{43}{75}, -\frac{1321}{2025}, \frac{64}{2025}, \frac{49}{135}, \frac{103}{675}, \frac{196}{405})$ $+\frac{2}{2025}\sqrt{2076193}e^4 \otimes e_5$	{125679, 14789, 259, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:150	$0, 0, 0, 0, 0, \frac{2}{2053}\sqrt{602803}e^{12}, \frac{4}{2053}\sqrt{67201}e^{13},$ $\frac{2}{2053}\sqrt{185555}e^{16} + \frac{4}{2053}\sqrt{89267}e^{23}, \frac{2}{2053}\sqrt{305915}e^{17} + \frac{2}{2053}\sqrt{468401}e^{24}$	$(\frac{125}{2053}, \frac{629}{2053}, \frac{250}{2053}, -\frac{129}{2053}, -\frac{1377}{2053}, \frac{754}{2053}, \frac{375}{2053}, \frac{879}{2053}, \frac{500}{2053})$ $+ \frac{14}{2053}\sqrt{35105}e^2 \otimes e_5$	{1248, 156, 24678, 57}
942:150	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{69}e^{12}, \frac{1}{54}\sqrt{23}e^{13}, \frac{1}{18}\sqrt{46}e^{16} + \frac{1}{27}\sqrt{46}e^{23},$ $\frac{1}{27}\sqrt{23}e^{17} + \frac{1}{9}\sqrt{23}e^{24}$	$(\frac{1}{54}, -\frac{7}{36}, \frac{1}{27}, \frac{29}{108}, \frac{1}{2}, -\frac{19}{108}, \frac{1}{18}, -\frac{17}{108}, \frac{2}{27})$ $- \frac{1}{18}\sqrt{138}e^4 \otimes e_8 + \frac{1}{54}\sqrt{989}e^5 \otimes e_9$	{1234567, 13578, 2345, 3568}
942:150	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{69}e^{12}, \frac{1}{54}\sqrt{23}e^{13}, \frac{1}{18}\sqrt{46}e^{16} + \frac{1}{27}\sqrt{46}e^{23},$ $\frac{1}{27}\sqrt{23}e^{17} + \frac{1}{9}\sqrt{23}e^{24}$	$(\frac{1}{54}, -\frac{7}{36}, \frac{1}{27}, \frac{29}{108}, \frac{1}{2}, -\frac{19}{108}, \frac{1}{18}, -\frac{17}{108}, \frac{2}{27})$ $+ \frac{1}{18}\sqrt{138}e^4 \otimes e_8 + \frac{1}{54}\sqrt{989}e^5 \otimes e_9$	{1234567, 13578, 2345, 3568}
942:150	$0, 0, 0, 0, 0, \frac{50}{2993}\sqrt{602}e^{12}, \frac{100}{2993}\sqrt{149}e^{13},$ $\frac{100}{2993}\sqrt{110}e^{16} + \frac{100}{2993}\sqrt{246}e^{23}, \frac{50}{2993}\sqrt{133}e^{17} + \frac{450}{2993}\sqrt{5}e^{24}$	$(-\frac{75}{2993}, \frac{475}{2993}, -\frac{150}{2993}, -\frac{775}{2993}, \frac{1575}{2993}, \frac{400}{2993}, -\frac{225}{2993}, \frac{325}{2993}, -\frac{300}{2993})$ $+ \frac{50}{2993}\sqrt{1337}e^5 \otimes e_8 + \frac{50}{2993}\sqrt{1418}e^2 \otimes e_4$	{128, 1456, 2678, 457}
942:150	$0, 0, 0, 0, 0, \frac{50}{2993}\sqrt{602}e^{12}, \frac{100}{2993}\sqrt{149}e^{13},$ $\frac{100}{2993}\sqrt{110}e^{16} + \frac{100}{2993}\sqrt{246}e^{23}, \frac{50}{2993}\sqrt{133}e^{17} + \frac{450}{2993}\sqrt{5}e^{24}$	$(-\frac{75}{2993}, \frac{475}{2993}, -\frac{150}{2993}, -\frac{775}{2993}, \frac{1575}{2993}, \frac{400}{2993}, -\frac{225}{2993}, \frac{325}{2993}, -\frac{300}{2993})$ $+ \frac{50}{2993}\sqrt{1337}e^5 \otimes e_8 - \frac{50}{2993}\sqrt{1418}e^2 \otimes e_4$	{128, 1456, 2678, 457}
942:150	$0, 0, 0, 0, 0, \frac{22}{571}\sqrt{183}e^{12}, \frac{11}{571}\sqrt{82}e^{13}, \frac{11}{571}\sqrt{354}e^{16} + \frac{22}{571}\sqrt{17}e^{23},$ $\frac{22}{571}\sqrt{47}e^{17} + \frac{55}{571}\sqrt{10}e^{24}$	$(\frac{11}{571}, \frac{143}{571}, \frac{22}{571}, -\frac{99}{571}, -\frac{231}{571}, \frac{154}{571}, \frac{33}{571}, \frac{165}{571}, \frac{44}{571})$ $+ \frac{11}{571}\sqrt{1162}e^1 \otimes e_5 + \frac{22}{571}\sqrt{221}e^2 \otimes e_4$	{1278, 1467, 2568, 45}
942:150	$0, 0, 0, 0, 0, \frac{22}{571}\sqrt{183}e^{12}, \frac{11}{571}\sqrt{82}e^{13}, \frac{11}{571}\sqrt{354}e^{16} + \frac{22}{571}\sqrt{17}e^{23},$ $\frac{22}{571}\sqrt{47}e^{17} + \frac{55}{571}\sqrt{10}e^{24}$	$(\frac{11}{571}, \frac{143}{571}, \frac{22}{571}, -\frac{99}{571}, -\frac{231}{571}, \frac{154}{571}, \frac{33}{571}, \frac{165}{571}, \frac{44}{571})$ $+ \frac{11}{571}\sqrt{1162}e^1 \otimes e_5 - \frac{22}{571}\sqrt{221}e^2 \otimes e_4$	{1278, 1467, 2568, 45}
942:151	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{19}e^{12}, \frac{1}{35}\sqrt{399}e^{13}, \frac{1}{35}\sqrt{57}e^{16} + \frac{1}{35}\sqrt{874}e^{23},$ $\frac{1}{35}\sqrt{133}e^{14} + \frac{1}{35}\sqrt{190}e^{37}$	$(\frac{1}{35}, \frac{29}{70}, \frac{2}{35}, \frac{4}{35}, -\frac{47}{70}, \frac{31}{70}, \frac{3}{35}, \frac{33}{70}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^2 \otimes e_5$	{12379, 1356789, 236, 358}
942:151	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{14}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{2}{17}\sqrt{5}e^{16} + \frac{1}{17}\sqrt{58}e^{23},$ $\frac{2}{17}\sqrt{19}e^{14} + \frac{2}{17}\sqrt{10}e^{37}$	$(\frac{1}{17}, -\frac{3}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{102}e^4 \otimes e_8 + \frac{3}{17}\sqrt{6}e^1 \otimes e_5$	{13789, 3568}
942:151	$0, 0, 0, 0, 0, \frac{74}{4621}\sqrt{69}e^{12}, \frac{37}{4621}\sqrt{1758}e^{13},$ $\frac{74}{4621}\sqrt{474}e^{16} + \frac{37}{4621}\sqrt{3442}e^{23}, \frac{37}{4621}\sqrt{4678}e^{14} + \frac{37}{4621}\sqrt{862}e^{37}$	$(-\frac{37}{4621}, \frac{1184}{4621}, -\frac{74}{4621}, -\frac{148}{4621}, -\frac{1517}{4621}, \frac{1147}{4621}, -\frac{111}{4621}, \frac{1110}{4621}, -\frac{185}{4621})$ $+ \frac{222}{4621}\sqrt{103}e^4 \otimes e_5 + \frac{666}{4621}\sqrt{15}e^2 \otimes e_9$	{159, 2578}
942:151	$0, 0, 0, 0, 0, \frac{8}{119}\sqrt{129}e^{12}, \frac{4}{119}\sqrt{258}e^{13}, \frac{8}{119}\sqrt{129}e^{16} + \frac{2}{119}\sqrt{1763}e^{23},$ $\frac{4}{119}\sqrt{86}e^{14} + \frac{2}{119}\sqrt{989}e^{37}$	$(\frac{1}{17}, \frac{13}{119}, \frac{2}{17}, \frac{4}{17}, -\frac{79}{119}, \frac{20}{119}, \frac{3}{17}, \frac{27}{119}, \frac{5}{17})$ $+ \frac{6}{119}\sqrt{473}e^1 \otimes e_5$	{123489, 13469, 2345678, 3457}
942:151	$0, 0, 0, 0, 0, \frac{5}{137}\sqrt{39}e^{12}, \frac{5}{137}\sqrt{111}e^{13}, \frac{10}{137}\sqrt{3}e^{16} + \frac{5}{137}\sqrt{202}e^{23},$ $\frac{5}{137}\sqrt{133}e^{14} + \frac{5}{137}\sqrt{2}e^{37}$	$(-\frac{5}{137}, \frac{25}{137}, -\frac{10}{137}, -\frac{20}{137}, \frac{65}{137}, \frac{20}{137}, -\frac{15}{137}, \frac{15}{137}, -\frac{25}{137})$ $+ \frac{15}{137}\sqrt{23}e^5 \otimes e_8 + \frac{60}{137}\sqrt{2}e^2 \otimes e_9$	{1248, 4579}
942:151	$0, 0, 0, 0, 0, \frac{29}{3649}\sqrt{2006}e^{12}, \frac{29}{3649}\sqrt{1794}e^{13},$ $\frac{58}{3649}\sqrt{106}e^{16} + \frac{87}{3649}\sqrt{418}e^{23}, \frac{58}{3649}\sqrt{1118}e^{14} + \frac{29}{3649}\sqrt{1894}e^{37}$	$(\frac{87}{3649}, -\frac{667}{3649}, \frac{174}{3649}, \frac{348}{3649}, \frac{1276}{3649}, -\frac{580}{3649}, \frac{261}{3649}, -\frac{493}{3649}, \frac{435}{3649})$ $+ \frac{29}{3649}\sqrt{2130}e^5 \otimes e_9 + \frac{29}{3649}\sqrt{4746}e^4 \otimes e_8$	{12689, 2578}
942:151	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{287}e^{12}, \frac{13}{511}\sqrt{111}e^{13}, \frac{13}{511}\sqrt{67}e^{16} + \frac{26}{511}\sqrt{143}e^{23},$ $\frac{39}{511}\sqrt{53}e^{14} + \frac{13}{511}\sqrt{229}e^{37}$	$(\frac{65}{1022}, -\frac{104}{511}, \frac{65}{511}, \frac{130}{511}, -\frac{104}{511}, -\frac{143}{1022}, \frac{195}{1022}, -\frac{39}{511}, \frac{325}{1022})$ $+ \frac{13}{511}\sqrt{285}e^3 \otimes e_5 + \frac{26}{511}\sqrt{165}e^4 \otimes e_8$	{125689, 2578}
942:151	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{21}e^{12}, \frac{1}{47}\sqrt{93}e^{13}, \frac{8}{47}\sqrt{3}e^{16} + \frac{8}{47}\sqrt{3}e^{23},$ $\frac{1}{47}\sqrt{195}e^{14} + \frac{1}{47}\sqrt{138}e^{37}$	$(-\frac{1}{47}, \frac{5}{47}, -\frac{2}{47}, -\frac{4}{47}, \frac{6}{47}, \frac{4}{47}, -\frac{3}{47}, \frac{3}{47}, -\frac{5}{47})$ $+ \frac{1}{47}\sqrt{246}e^1 \otimes e_4 + \frac{3}{47}e^5 \otimes e_8$	{234678, 3457}
942:151	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{87}e^{12}, \frac{1}{26}\sqrt{174}e^{13}, \frac{1}{13}\sqrt{87}e^{16} + \frac{1}{26}\sqrt{493}e^{23},$ $\frac{2}{13}\sqrt{58}e^{14} + \frac{1}{26}\sqrt{406}e^{37}$	$(\frac{5}{52}, \frac{1}{26}, \frac{5}{26}, \frac{5}{13}, -\frac{19}{26}, \frac{7}{52}, \frac{15}{52}, \frac{3}{13}, \frac{25}{52})$ $+ \frac{3}{26}\sqrt{145}e^4 \otimes e_5$	{125689, 159, 2578, 567}
942:151	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{1254}e^{12}, \frac{19}{287}\sqrt{66}e^{13}, \frac{11}{287}\sqrt{114}e^{16} + \frac{10}{287}\sqrt{418}e^{23},$ $\frac{10}{287}\sqrt{418}e^{14} + \frac{1}{287}\sqrt{12122}e^{37}$	$(-\frac{2}{41}, \frac{139}{287}, -\frac{4}{41}, -\frac{8}{41}, \frac{44}{287}, \frac{125}{287}, -\frac{6}{41}, \frac{111}{287}, -\frac{10}{41})$ $+ \frac{9}{287}\sqrt{1254}e^2 \otimes e_9$	{123457, 12347, 34589, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:151	$0, 0, 0, 0, 0, \frac{140}{3949}\sqrt{15}e^{12}, \frac{105}{3949}\sqrt{62}e^{13},$ $\frac{420}{3949}\sqrt{7}e^{16} + \frac{35}{3949}\sqrt{2186}e^{23}, \frac{105}{3949}\sqrt{118}e^{14} + \frac{175}{3949}\sqrt{62}e^{37}$	$(-\frac{35}{3949}, \frac{1050}{3949}, -\frac{70}{3949}, -\frac{140}{3949}, -\frac{1295}{3949}, \frac{1015}{3949}, -\frac{105}{3949}, \frac{980}{3949}, -\frac{175}{3949})$ $+ \frac{420}{3949}\sqrt{26}e^2 \otimes e_9 + \frac{70}{3949}\sqrt{843}e^3 \otimes e_5$	{13689, 2367}
942:151	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{3}e^{12}, \frac{2}{23}\sqrt{6}e^{13}, \frac{4}{23}\sqrt{3}e^{16} + \frac{3}{46}\sqrt{22}e^{23},$ $\frac{3}{46}\sqrt{22}e^{14} + \frac{1}{46}\sqrt{141}e^{37}$	$(-\frac{1}{46}, \frac{11}{92}, -\frac{1}{23}, -\frac{2}{23}, \frac{9}{92}, \frac{9}{92}, -\frac{3}{46}, \frac{7}{92}, -\frac{5}{46})$ $+ \frac{1}{46}\sqrt{249}e^1 \otimes e_4$	{2345678, 234678, 3457, 347}
942:151	$0, 0, 0, 0, 0, \frac{12}{775}\sqrt{165}e^{12}, \frac{3}{775}\sqrt{1662}e^{13}, \frac{12}{775}\sqrt{165}e^{16} + \frac{3}{775}\sqrt{2694}e^{23},$ $\frac{3}{775}\sqrt{2922}e^{14} + \frac{3}{775}\sqrt{2238}e^{37}$	$(-\frac{9}{775}, \frac{78}{775}, -\frac{18}{775}, -\frac{36}{775}, -\frac{9}{155}, \frac{69}{775}, -\frac{27}{775}, \frac{12}{155}, -\frac{9}{155})$ $+ \frac{12}{775}\sqrt{222}e^1 \otimes e_4 + \frac{18}{775}\sqrt{19}e^3 \otimes e_5$	{234678, 347}
942:151	$0, 0, 0, 0, 0, \frac{6}{571}\sqrt{646}e^{12}, \frac{6}{571}\sqrt{323}e^{13}, \frac{6}{571}\sqrt{646}e^{16} + \frac{2}{571}\sqrt{969}e^{23},$ $\frac{8}{571}\sqrt{3230}e^{14} + \frac{68}{571}\sqrt{38}e^{37}$	$(-\frac{15}{571}, \frac{115}{571}, -\frac{30}{571}, -\frac{60}{571}, 1, \frac{100}{571}, -\frac{45}{571}, \frac{85}{571}, -\frac{75}{571})$ $+ \frac{2}{571}\sqrt{152133}e^5 \otimes e_9$	{124568, 145, 24789, 4679}
942:151	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{770}e^{12}, \frac{22}{101}\sqrt{6}e^{13}, \frac{4}{101}\sqrt{22}e^{16} + \frac{2}{101}\sqrt{1606}e^{23},$ $\frac{2}{101}\sqrt{1606}e^{14} + \frac{4}{101}\sqrt{253}e^{37}$	$(\frac{7}{101}, -\frac{30}{101}, \frac{14}{101}, \frac{28}{101}, \frac{8}{101}, -\frac{23}{101}, \frac{21}{101}, -\frac{16}{101}, \frac{35}{101})$ $+ \frac{2}{101}\sqrt{2046}e^4 \otimes e_8$	{125689, 12689, 2578, 278}
942:151	$0, 0, 0, 0, 0, \frac{6}{583}\sqrt{705}e^{12}, \frac{3}{583}\sqrt{1410}e^{13}, \frac{6}{583}\sqrt{705}e^{16} + \frac{3}{583}\sqrt{2874}e^{23},$ $\frac{3}{583}\sqrt{3030}e^{14} + \frac{6}{583}\sqrt{483}e^{37}$	$(-\frac{9}{583}, \frac{69}{583}, -\frac{18}{583}, -\frac{36}{583}, -\frac{18}{583}, \frac{60}{583}, -\frac{27}{583}, \frac{51}{583}, -\frac{45}{583})$ $+ \frac{18}{583}\sqrt{13}e^5 \otimes e_9 + \frac{3}{583}\sqrt{3606}e^1 \otimes e_4$	{234678, 347}
942:151	$0, 0, 0, 0, 0, \frac{26}{961}\sqrt{77}e^{12}, \frac{13}{961}\sqrt{561}e^{13}, \frac{13}{961}\sqrt{109}e^{16} + \frac{260}{961}\sqrt{3}e^{23},$ $\frac{13}{961}\sqrt{995}e^{14} + \frac{130}{961}\sqrt{7}e^{37}$	$(\frac{39}{961}, -\frac{91}{961}, \frac{78}{961}, \frac{156}{961}, -\frac{260}{961}, -\frac{52}{961}, \frac{117}{961}, -\frac{13}{961}, \frac{195}{961})$ $+ \frac{13}{961}\sqrt{615}e^2 \otimes e_5 + \frac{26}{961}\sqrt{303}e^4 \otimes e_8$	{12689, 278}
942:151	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{177}e^{12}, \frac{3}{71}\sqrt{354}e^{13}, \frac{2}{71}\sqrt{177}e^{16} + \frac{1}{71}\sqrt{1298}e^{23},$ $\frac{3}{71}\sqrt{118}e^{14} + \frac{1}{71}\sqrt{2714}e^{37}$	$(\frac{5}{71}, \frac{6}{71}, \frac{10}{71}, \frac{20}{71}, -\frac{49}{71}, \frac{11}{71}, \frac{15}{71}, \frac{16}{71}, \frac{25}{71})$ $+ \frac{2}{71}\sqrt{1770}e^3 \otimes e_5$	{12456789, 14579, 2458, 456}
942:151	$0, 0, 0, 0, 0, \frac{22}{271}\sqrt{3}e^{12}, \frac{1}{271}\sqrt{906}e^{13}, \frac{4}{271}\sqrt{102}e^{16} + \frac{3}{271}\sqrt{202}e^{23},$ $\frac{3}{271}\sqrt{202}e^{14} + \frac{1}{271}\sqrt{1086}e^{37}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, -\frac{4}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+ \frac{2}{271}\sqrt{501}e^1 \otimes e_4 + \frac{6}{271}\sqrt{15}e^2 \otimes e_9$	{3457, 347}
942:151	$0, 0, 0, 0, 0, \frac{8}{47}\sqrt{3}e^{12}, \frac{1}{47}\sqrt{93}e^{13}, \frac{3}{47}\sqrt{21}e^{16} + \frac{8}{47}\sqrt{3}e^{23},$ $\frac{1}{47}\sqrt{195}e^{14} + \frac{1}{47}\sqrt{138}e^{37}$	$(-\frac{1}{47}, \frac{6}{47}, -\frac{2}{47}, -\frac{4}{47}, \frac{3}{47}, \frac{5}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{5}{47})$ $+ \frac{1}{47}\sqrt{246}e^1 \otimes e_4 + \frac{3}{47}e^2 \otimes e_5$	{234678, 3457}
942:151	$0, 0, 0, 0, 0, \frac{68}{1817}\sqrt{129}e^{12}, \frac{68}{1817}\sqrt{3}e^{13}, \frac{34}{1817}\sqrt{246}e^{16} + \frac{34}{1817}\sqrt{7}e^{23},$ $\frac{34}{1817}\sqrt{274}e^{14} + \frac{238}{1817}\sqrt{5}e^{37}$	$(-\frac{17}{1817}, \frac{493}{1817}, -\frac{34}{1817}, -\frac{68}{1817}, -\frac{595}{1817}, \frac{476}{1817}, -\frac{51}{1817}, \frac{459}{1817}, -\frac{85}{1817})$ $+ \frac{102}{1817}\sqrt{89}e^1 \otimes e_5 + \frac{306}{1817}\sqrt{10}e^2 \otimes e_9$	{1248, 4579}
942:151	$0, 0, 0, 0, 0, \frac{4}{1357}\sqrt{78}e^{12}, \frac{3}{1357}\sqrt{274}e^{13}, \frac{1}{1357}\sqrt{834}e^{16} + \frac{2}{1357}\sqrt{1230}e^{23},$ $\frac{2}{1357}\sqrt{1230}e^{14} + \frac{238}{1357}\sqrt{230}e^{37}$	$(-\frac{2}{1357}, -\frac{7}{1357}, -\frac{4}{1357}, -\frac{8}{1357}, \frac{60}{1357}, -\frac{9}{1357}, -\frac{6}{1357}, -\frac{11}{1357}, -\frac{10}{1357})$ $+ \frac{1}{1357}\sqrt{3270}e^2 \otimes e_9 + \frac{4}{1357}\sqrt{282}e^4 \otimes e_8$	{2578, 278}
942:151	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{57}e^{12}, \frac{1}{35}\sqrt{399}e^{13}, \frac{6}{35}\sqrt{19}e^{16} + \frac{1}{35}\sqrt{874}e^{23},$ $\frac{1}{35}\sqrt{133}e^{14} + \frac{1}{35}\sqrt{190}e^{37}$	$(\frac{1}{35}, -\frac{1}{7}, \frac{2}{35}, \frac{4}{35}, 1, -\frac{4}{35}, \frac{3}{35}, -\frac{3}{35}, \frac{1}{7})$ $+ \frac{3}{35}\sqrt{247}e^5 \otimes e_8$	{1235679, 13789, 235, 368}
942:152	$0, 0, 0, 0, 0, \frac{4}{373}\sqrt{3745}e^{12}, \frac{4}{373}\sqrt{2730}e^{13}, \frac{4}{373}\sqrt{3745}e^{16} + \frac{4}{373}\sqrt{2730}e^{23},$ $\frac{8}{373}\sqrt{455}e^{17} + \frac{4}{373}\sqrt{105}e^{34}$	$(\frac{29}{373}, \frac{32}{373}, \frac{58}{373}, \frac{58}{373}, -\frac{251}{373}, \frac{61}{373}, \frac{87}{373}, \frac{90}{373}, \frac{116}{373})$ $+ \frac{8}{373}\sqrt{2730}e^1 \otimes e_5$	{12389, 1369, 2356789, 3579}
942:152	$0, 0, 0, 0, 0, \frac{29}{2725}\sqrt{134}e^{12}, \frac{29}{2725}\sqrt{510}e^{13},$ $\frac{29}{2725}\sqrt{1002}e^{16} + \frac{58}{2725}\sqrt{453}e^{23}, \frac{58}{2725}\sqrt{302}e^{17} + \frac{232}{2725}\sqrt{10}e^{34}$	$(-\frac{29}{2725}, \frac{29}{109}, -\frac{58}{2725}, -\frac{58}{2725}, -\frac{899}{2725}, \frac{696}{2725}, -\frac{87}{2725}, \frac{667}{2725}, -\frac{116}{2725})$ $+ \frac{58}{2725}\sqrt{651}e^2 \otimes e_9 + \frac{87}{2725}\sqrt{258}e^3 \otimes e_5$	{125678, 258}
942:152	$0, 0, 0, 0, 0, \frac{4}{373}\sqrt{3745}e^{12}, \frac{4}{373}\sqrt{2730}e^{13}, \frac{4}{373}\sqrt{105}e^{16} + \frac{4}{373}\sqrt{2730}e^{23},$ $\frac{8}{373}\sqrt{455}e^{17} + \frac{4}{373}\sqrt{3745}e^{34}$	$(-\frac{23}{373}, \frac{188}{373}, -\frac{46}{373}, -\frac{46}{373}, \frac{61}{373}, \frac{165}{373}, -\frac{69}{373}, \frac{142}{373}, -\frac{92}{373})$ $+ \frac{8}{373}\sqrt{2730}e^2 \otimes e_9$	{14569, 1469, 4579, 479}
942:152	$0, 0, 0, 0, 0, \frac{1}{88}\sqrt{4582}e^{12}, \frac{5}{88}\sqrt{237}e^{13}, \frac{1}{88}\sqrt{4582}e^{16} + \frac{5}{88}\sqrt{237}e^{23},$ $\frac{5}{88}\sqrt{158}e^{17} + \frac{1}{44}\sqrt{158}e^{34}$	$(\frac{17}{176}, \frac{9}{176}, \frac{17}{88}, \frac{17}{88}, -\frac{31}{44}, \frac{13}{88}, \frac{51}{176}, \frac{43}{176}, \frac{17}{44})$ $+ \frac{5}{88}\sqrt{474}e^3 \otimes e_5$	{1245678, 1457, 2458, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:152	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{1817e^{12}}, \frac{5}{88}\sqrt{237e^{13}}, \frac{1}{44}\sqrt{1817e^{16}} + \frac{5}{88}\sqrt{237e^{23}},$ $\frac{5}{44}\sqrt{79e^{17}} + \frac{1}{88}\sqrt{11218e^{34}}$	$(\frac{17}{176}, \frac{9}{176}, \frac{17}{88}, \frac{17}{88}, -\frac{31}{44}, \frac{13}{88}, \frac{51}{176}, \frac{43}{176}, \frac{17}{44})$ $+ \frac{5}{88}\sqrt{474e^4} \otimes e_5$	{1235789, 135679, 235689, 359}
942:152	$0, 0, 0, 0, 0, \frac{4}{349}\sqrt{2233e^{12}}, \frac{12}{349}\sqrt{286e^{13}}, \frac{4}{349}\sqrt{3377e^{16}} + \frac{4}{349}\sqrt{858e^{23}},$ $\frac{8}{349}\sqrt{715e^{17}} + \frac{4}{349}\sqrt{3377e^{34}}$	$(\frac{21}{349}, -\frac{88}{349}, \frac{42}{349}, \frac{42}{349}, \frac{37}{349}, -\frac{67}{349}, \frac{63}{349}, -\frac{46}{349}, \frac{84}{349})$ $+ \frac{8}{349}\sqrt{858e^4} \otimes e_8$	{1235789, 123789, 235689, 23689}
942:152	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{26578e^{12}}, \frac{10}{361}\sqrt{582e^{13}},$ $\frac{2}{361}\sqrt{7178e^{16}} + \frac{10}{361}\sqrt{582e^{23}}, \frac{20}{361}\sqrt{97e^{17}} + \frac{2}{361}\sqrt{7178e^{34}}$	$(\frac{12}{361}, \frac{149}{361}, \frac{24}{361}, \frac{24}{361}, -\frac{239}{361}, \frac{161}{361}, \frac{36}{361}, \frac{173}{361}, \frac{48}{361})$ $+ \frac{20}{361}\sqrt{582e^2} \otimes e_5$	{128, 156, 2678, 57}
942:152	$0, 0, 0, 0, 0, \frac{19}{2053}\sqrt{1822e^{12}}, \frac{114}{2053}\sqrt{61e^{13}},$ $\frac{19}{2053}\sqrt{2798e^{16}} + \frac{38}{2053}\sqrt{183e^{23}}, \frac{19}{2053}\sqrt{2170e^{17}} + \frac{38}{2053}\sqrt{767e^{34}}$	$(\frac{57}{2053}, -\frac{361}{2053}, \frac{114}{2053}, \frac{114}{2053}, \frac{589}{2053}, -\frac{304}{2053}, \frac{171}{2053}, -\frac{247}{2053}, \frac{228}{2053})$ $+ \frac{171}{2053}\sqrt{10e^5} \otimes e_9 + \frac{76}{2053}\sqrt{183e^4} \otimes e_8$	{123789, 23689}
942:152	$0, 0, 0, 0, 0, \frac{99}{949}\sqrt{14e^{12}}, \frac{22}{949}\sqrt{318e^{13}}, \frac{231}{949}\sqrt{2e^{16}} + \frac{22}{949}\sqrt{318e^{23}},$ $\frac{33}{949}\sqrt{14e^{17}} + \frac{99}{949}\sqrt{14e^{34}}$	$(-\frac{44}{949}, \frac{187}{949}, -\frac{88}{949}, -\frac{88}{949}, \frac{462}{949}, \frac{11}{949}, -\frac{132}{949}, \frac{99}{949}, -\frac{176}{949})$ $+ \frac{11}{949}\sqrt{2922e^2} \otimes e_9 + \frac{209}{949}\sqrt{6e^5} \otimes e_8$	{14569, 4579}
942:152	$0, 0, 0, 0, 0, \frac{16}{173}\sqrt{22e^{12}}, \frac{8}{173}\sqrt{78e^{13}}, \frac{8}{173}\sqrt{127e^{16}} + \frac{8}{173}\sqrt{39e^{23}},$ $\frac{8}{173}\sqrt{91e^{17}} + \frac{8}{173}\sqrt{114e^{34}}$	$(\frac{10}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{22}{173}, -\frac{22}{173}, \frac{30}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{24}{173}\sqrt{13e^4} \otimes e_8 + \frac{8}{173}\sqrt{39e^1} \otimes e_5$	{123789, 235689}
942:152	$0, 0, 0, 0, 0, \frac{60}{271}\sqrt{2e^{12}}, \frac{20}{271}\sqrt{19e^{13}}, \frac{30}{271}\sqrt{10e^{16}} + \frac{15}{271}\sqrt{6e^{23}},$ $\frac{5}{271}\sqrt{322e^{17}} + \frac{30}{271}\sqrt{10e^{34}}$	$(\frac{10}{271}, -\frac{25}{271}, \frac{20}{271}, \frac{20}{271}, -\frac{50}{271}, -\frac{15}{271}, \frac{30}{271}, -\frac{5}{271}, \frac{40}{271})$ $+ \frac{5}{271}\sqrt{142e^2} \otimes e_5 + \frac{5}{271}\sqrt{358e^4} \otimes e_8$	{123789, 23689}
942:152	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{1090e^{12}}, \frac{17}{1381}\sqrt{1254e^{13}},$ $\frac{17}{1381}\sqrt{1758e^{16}} + \frac{102}{1381}\sqrt{7e^{23}}, \frac{68}{1381}\sqrt{94e^{17}} + \frac{34}{1381}\sqrt{481e^{34}}$	$(\frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, \frac{170}{1381}, -\frac{119}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{498e^3} \otimes e_5 + \frac{34}{1381}\sqrt{501e^4} \otimes e_8$	{123789, 23689}
942:152	$0, 0, 0, 0, 0, \frac{58}{2725}\sqrt{547e^{12}}, \frac{58}{2725}\sqrt{453e^{13}},$ $\frac{58}{2725}\sqrt{330e^{16}} + \frac{29}{2725}\sqrt{510e^{23}}, \frac{29}{2725}\sqrt{1114e^{17}} + \frac{29}{2725}\sqrt{2962e^{34}}$	$(-\frac{29}{2725}, \frac{29}{109}, -\frac{58}{2725}, -\frac{58}{2725}, -\frac{899}{2725}, \frac{696}{2725}, -\frac{87}{2725}, \frac{667}{2725}, -\frac{116}{2725})$ $+ \frac{58}{2725}\sqrt{651e^2} \otimes e_9 + \frac{87}{2725}\sqrt{258e^4} \otimes e_5$	{135679, 359}
942:152	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{7178e^{12}}, \frac{10}{361}\sqrt{582e^{13}},$ $\frac{2}{361}\sqrt{26578e^{16}} + \frac{10}{361}\sqrt{582e^{23}}, \frac{20}{361}\sqrt{97e^{17}} + \frac{2}{361}\sqrt{7178e^{34}}$	$(\frac{12}{361}, -\frac{51}{361}, \frac{24}{361}, \frac{24}{361}, 1, -\frac{39}{361}, \frac{36}{361}, -\frac{27}{361}, \frac{48}{361})$ $+ \frac{20}{361}\sqrt{582e^5} \otimes e_8$	{128, 156, 2678, 57}
942:153	$0, 0, 0, 0, 0, \frac{190}{869}\sqrt{3e^{12}}, \frac{19}{869}\sqrt{334e^{13}}, \frac{38}{2607}\sqrt{462e^{16}} + \frac{57}{869}\sqrt{70e^{23}},$ $\frac{19}{2607}\sqrt{2130e^{24}} + \frac{38}{2607}\sqrt{195e^{37}}$	$(-\frac{19}{869}, \frac{133}{869}, -\frac{38}{869}, -\frac{228}{869}, \frac{456}{869}, \frac{114}{869}, -\frac{57}{869}, \frac{95}{869}, -\frac{95}{869})$ $+ \frac{19}{869}\sqrt{826e^2} \otimes e_4 + \frac{76}{2607}\sqrt{438e^5} \otimes e_8$	{2678, 457}
942:153	$0, 0, 0, 0, 0, \frac{58}{1269}\sqrt{103e^{12}}, \frac{232}{1269}\sqrt{2e^{13}}, \frac{29}{1269}\sqrt{78e^{16}} + \frac{29}{423}\sqrt{22e^{23}},$ $\frac{116}{423}e^{24} + \frac{145}{1269}\sqrt{14e^{37}}$	$(-\frac{29}{1269}, \frac{116}{423}, -\frac{58}{1269}, -\frac{493}{1269}, \frac{232}{423}, \frac{319}{1269}, -\frac{29}{423}, \frac{290}{1269}, -\frac{145}{1269})$ $+ \frac{232}{1269}\sqrt{17e^5} \otimes e_9 + \frac{29}{1269}\sqrt{1146e^2} \otimes e_4$	{26789, 479}
942:153	$0, 0, 0, 0, 0, \frac{1}{166}\sqrt{5282e^{12}}, \frac{15}{332}\sqrt{278e^{13}}, \frac{1}{332}\sqrt{26410e^{16}} + \frac{2}{83}\sqrt{695e^{23}},$ $\frac{1}{332}\sqrt{15846e^{24}} + \frac{1}{332}\sqrt{51986e^{37}}$	$(\frac{23}{332}, \frac{73}{664}, \frac{23}{166}, \frac{157}{664}, -\frac{58}{83}, \frac{119}{664}, \frac{69}{332}, \frac{165}{664}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198e^3} \otimes e_5$	{12456789, 1579, 258, 456}
942:153	$0, 0, 0, 0, 0, \frac{4}{693}\sqrt{359e^{12}}, \frac{4}{693}\sqrt{6103e^{13}},$ $\frac{2}{693}\sqrt{23694e^{16}} + \frac{2}{693}\sqrt{50619e^{23}}, \frac{2}{693}\sqrt{75390e^{24}} + \frac{8}{693}\sqrt{4667e^{37}}$	$(-\frac{5}{693}, \frac{20}{231}, -\frac{10}{693}, -\frac{85}{693}, 1, \frac{5}{63}, -\frac{5}{231}, \frac{50}{693}, -\frac{25}{693})$ $+ \frac{4}{693}\sqrt{50978e^5} \otimes e_9$	{12679, 14789, 245, 568}
942:153	$0, 0, 0, 0, 0, \frac{4}{2677}\sqrt{187107e^{12}}, \frac{2}{2677}\sqrt{367579e^{13}},$ $\frac{2}{2677}\sqrt{6635e^{16}} + \frac{2}{2677}\sqrt{927573e^{23}}, \frac{2}{2677}\sqrt{747101e^{24}} + \frac{10}{2677}\sqrt{14597e^{37}}$	$(\frac{145}{2677}, \frac{851}{2677}, \frac{290}{2677}, -\frac{126}{2677}, \frac{1803}{2677}, \frac{996}{2677}, \frac{435}{2677}, \frac{1141}{2677}, \frac{725}{2677})$ $+ \frac{16}{2677}\sqrt{46445e^2} \otimes e_5$	{1289, 14569, 24678, 57}
942:153	$0, 0, 0, 0, 0, \frac{23}{1301}\sqrt{382e^{12}}, \frac{23}{1301}\sqrt{134e^{13}},$ $\frac{23}{1301}\sqrt{866e^{16}} + \frac{23}{1301}\sqrt{130e^{23}}, \frac{23}{1301}\sqrt{370e^{24}} + \frac{46}{1301}\sqrt{5e^{37}}$	$(\frac{69}{1301}, -\frac{161}{1301}, \frac{138}{1301}, \frac{506}{1301}, -\frac{460}{1301}, -\frac{92}{1301}, \frac{207}{1301}, -\frac{23}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301}\sqrt{1082e^4} \otimes e_8 + \frac{46}{1301}\sqrt{305e^1} \otimes e_5$	{12389, 13469}
942:153	$0, 0, 0, 0, 0, \frac{4}{2661}\sqrt{87715e^{12}}, \frac{4}{887}\sqrt{11585e^{13}},$ $\frac{2}{2661}\sqrt{241630e^{16}} + \frac{2}{2661}\sqrt{365755e^{23}}, \frac{2}{2661}\sqrt{1777470e^{24}} + \frac{16}{2661}\sqrt{3310e^{37}}$	$(\frac{283}{2661}, -\frac{172}{2661}, \frac{566}{2661}, \frac{529}{887}, -\frac{1723}{2661}, \frac{37}{887}, \frac{283}{2661}, \frac{394}{2661}, \frac{1415}{2661})$ $+ \frac{8}{2661}\sqrt{226735e^4} \otimes e_5$	{12467, 1578, 259, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:153	$0, 0, 0, 0, 0, \frac{1}{166}\sqrt{5282e^{12}}, \frac{1}{332}\sqrt{15846e^{13}}, \frac{1}{332}\sqrt{51986e^{16}} + \frac{2}{83}\sqrt{695e^{23}},$ $\frac{15}{332}\sqrt{278e^{24}} + \frac{1}{332}\sqrt{26410e^{37}}$	$(\frac{23}{332}, -\frac{209}{664}, \frac{23}{166}, \frac{439}{664}, \frac{25}{166}, -\frac{163}{664}, \frac{69}{332}, -\frac{117}{664}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198e^4} \otimes e_8$	{234, 2345, 3568, 368}
942:153	$0, 0, 0, 0, 0, \frac{4}{701}\sqrt{17085e^{12}}, \frac{16}{701}\sqrt{510e^{13}},$ $\frac{2}{701}\sqrt{66810e^{16}} + \frac{6}{701}\sqrt{6035e^{23}}, \frac{6}{701}\sqrt{510e^{24}} + \frac{4}{701}\sqrt{7395e^{37}}$	$(\frac{43}{701}, \frac{80}{701}, \frac{86}{701}, \frac{135}{701}, -\frac{467}{701}, \frac{123}{701}, \frac{129}{701}, \frac{166}{701}, \frac{215}{701})$ $+ \frac{4}{701}\sqrt{37230e^1} \otimes e_5$	{123489, 1369, 235678, 3457}
942:153	$0, 0, 0, 0, 0, \frac{27}{1717}\sqrt{298e^{12}}, \frac{54}{1717}\sqrt{13e^{13}},$ $\frac{54}{1717}\sqrt{163e^{16}} + \frac{27}{1717}\sqrt{158e^{23}}, \frac{54}{1717}\sqrt{286e^{24}} + \frac{27}{1717}\sqrt{142e^{37}}$	$(\frac{27}{1717}, -\frac{324}{1717}, \frac{54}{1717}, \frac{27}{101}, \frac{864}{1717}, -\frac{297}{1717}, \frac{81}{1717}, -\frac{270}{1717}, \frac{135}{1717})$ $+ \frac{27}{1717}\sqrt{1706e^4} \otimes e_8 + \frac{378}{1717}\sqrt{7e^5} \otimes e_9$	{1234567, 13578}
942:153	$0, 0, 0, 0, 0, \frac{8}{105}\sqrt{21e^{12}}, \frac{4}{105}\sqrt{78e^{13}}, \frac{8}{35}e^{16} + \frac{12}{35}\sqrt{2e^{23}},$ $\frac{4}{105}\sqrt{78e^{24}} + \frac{8}{35}e^{37}$	$(\frac{2}{35}, -\frac{1}{7}, \frac{4}{35}, \frac{3}{7}, -\frac{12}{35}, -\frac{3}{35}, \frac{6}{35}, -\frac{1}{35}, \frac{2}{7})$ $+ \frac{4}{105}\sqrt{282e^3} \otimes e_5 + \frac{8}{105}\sqrt{282e^4} \otimes e_8$	{2347, 3678}
942:153	$0, 0, 0, 0, 0, \frac{13}{386}\sqrt{62e^{12}}, \frac{13}{772}\sqrt{310e^{13}}, \frac{13}{772}\sqrt{330e^{16}} + \frac{26}{193}\sqrt{15e^{23}},$ $\frac{13}{772}\sqrt{454e^{24}} + \frac{13}{772}\sqrt{434e^{37}}$	$(\frac{13}{772}, \frac{403}{1544}, \frac{13}{386}, -\frac{273}{1544}, -\frac{78}{193}, \frac{429}{1544}, \frac{39}{772}, \frac{455}{1544}, \frac{65}{772})$ $+ \frac{13}{386}\sqrt{382e^3} \otimes e_5 + \frac{52}{193}\sqrt{5e^2} \otimes e_4$	{2367, 3478}
942:153	$0, 0, 0, 0, 0, \frac{18}{161}\sqrt{55e^{12}}, \frac{2}{161}\sqrt{2310e^{13}}, \frac{1}{161}\sqrt{330e^{16}} + \frac{55}{161}\sqrt{6e^{23}},$ $\frac{2}{161}\sqrt{2310e^{24}} + \frac{1}{161}\sqrt{330e^{37}}$	$(-\frac{1}{161}, \frac{80}{161}, -\frac{2}{161}, -\frac{85}{161}, \frac{24}{161}, \frac{79}{161}, -\frac{3}{161}, \frac{78}{161}, -\frac{5}{161})$ $+ \frac{1}{161}\sqrt{45210e^2} \otimes e_4$	{2356, 236, 3458, 348}
942:153	$0, 0, 0, 0, 0, \frac{50}{297}\sqrt{11e^{12}}, \frac{5}{297}\sqrt{70e^{13}}, \frac{10}{297}\sqrt{155e^{16}} + \frac{5}{99}\sqrt{10e^{23}},$ $\frac{5}{297}\sqrt{310e^{24}} + \frac{20}{297}\sqrt{15e^{37}}$	$(\frac{5}{297}, \frac{25}{99}, \frac{10}{297}, -\frac{50}{297}, -\frac{40}{99}, \frac{80}{297}, \frac{5}{99}, \frac{85}{297}, \frac{25}{297})$ $+ \frac{20}{297}\sqrt{95e^1} \otimes e_5 + \frac{5}{297}\sqrt{1130e^2} \otimes e_4$	{235678, 3457}
942:153	$0, 0, 0, 0, 0, \frac{47}{8021}\sqrt{2186e^{16}} + \frac{47}{8021}\sqrt{4470e^{23}}, \frac{47}{8021}\sqrt{4610e^{24}} + \frac{470}{8021}\sqrt{26e^{37}}$ $\frac{141}{8021}\sqrt{38e^{12}}, \frac{47}{8021}\sqrt{1906e^{13}}$	$(\frac{329}{8021}, -\frac{47}{617}, \frac{658}{8021}, \frac{2256}{8021}, -\frac{2820}{8021}, -\frac{282}{8021}, \frac{987}{8021}, \frac{47}{8021}, \frac{1645}{8021})$ $+ \frac{47}{8021}\sqrt{7842e^4} \otimes e_8 + \frac{94}{8021}\sqrt{1730e^2} \otimes e_5$	{1289, 14569}
942:153	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{159e^{12}}, \frac{2}{293}\sqrt{6837e^{13}}, \frac{14}{293}\sqrt{265e^{16}} + \frac{2}{293}\sqrt{14469e^{23}},$ $\frac{2}{293}\sqrt{1961e^{24}} + \frac{2}{293}\sqrt{1643e^{37}}$	$(\frac{5}{293}, -\frac{35}{293}, \frac{10}{293}, \frac{60}{293}, 1, -\frac{30}{293}, \frac{15}{293}, -\frac{25}{293}, \frac{25}{293})$ $+ \frac{8}{293}\sqrt{2438e^5} \otimes e_8$	{12489, 1569, 2678, 457}
942:154	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{51e^{14}} + \frac{1}{28}\sqrt{170e^{25}} + \frac{1}{28}\sqrt{238e^{37}},$ $\frac{1}{7}\sqrt{51e^{12}}, \frac{1}{28}\sqrt{170e^{13}}, \frac{1}{28}\sqrt{238e^{16}}$	$(-\frac{5}{28}, \frac{37}{56}, \frac{1}{7}, \frac{2}{7}, -\frac{31}{56}, \frac{27}{56}, -\frac{1}{28}, \frac{17}{56}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391e^2} \otimes e_5$	{12378, 128, 13567, 156}
942:154	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2555e^{14}} + \frac{1}{169}\sqrt{20294e^{25}} + \frac{1}{169}\sqrt{730e^{37}},$ $\frac{2}{169}\sqrt{146e^{12}}, \frac{1}{169}\sqrt{438e^{13}}, \frac{1}{169}\sqrt{20002e^{16}}$	$(-\frac{3}{169}, -\frac{81}{338}, \frac{31}{169}, \frac{62}{169}, \frac{199}{338}, -\frac{87}{338}, \frac{28}{169}, -\frac{93}{338}, \frac{59}{169})$ $+ \frac{2}{169}\sqrt{10366e^5} \otimes e_8$	{2345, 2457, 3468, 4678}
942:154	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{10e^{14}} + \frac{1}{132}\sqrt{34e^{25}} + \frac{1}{66}\sqrt{83e^{37}},$ $\frac{1}{33}\sqrt{14e^{12}}, \frac{1}{44}\sqrt{30e^{13}}, \frac{1}{132}\sqrt{382e^{16}}$	$(\frac{1}{33}, -\frac{1}{11}, 0, 0, \frac{4}{33}, -\frac{2}{33}, \frac{1}{33}, -\frac{1}{33}, \frac{1}{33})$ $+ \frac{1}{132}\sqrt{454e^1} \otimes e_4 + \frac{1}{66}\sqrt{127e^3} \otimes e_8$	{2468, 3457}
942:154	$0, 0, 0, 0, 0, \frac{4}{2789}\sqrt{35389e^{12}}, \frac{24}{2789}\sqrt{4938e^{13}}, \frac{10}{2789}\sqrt{31274e^{16}},$ $\frac{10}{2789}\sqrt{30451e^{14}} + \frac{6}{2789}\sqrt{1646e^{25}} + \frac{4}{2789}\sqrt{255953e^{37}}$	$(-\frac{624}{2789}, \frac{283}{2789}, \frac{681}{2789}, \frac{1362}{2789}, \frac{455}{2789}, -\frac{341}{2789}, \frac{57}{2789}, -\frac{965}{2789}, \frac{738}{2789})$ $+ \frac{56}{2789}\sqrt{2469e^3} \otimes e_8$	{1245789, 13469, 2468, 3457}
942:154	$0, 0, 0, 0, 0, \frac{50}{1561}\sqrt{142e^{12}}, \frac{75}{1561}\sqrt{61e^{13}}, \frac{25}{1561}\sqrt{17e^{16}},$ $\frac{25}{1561}\sqrt{835e^{14}} + \frac{300}{1561}e^{25} + \frac{50}{1561}\sqrt{266e^{37}}$	$(-\frac{375}{1561}, \frac{425}{1561}, \frac{300}{1561}, \frac{600}{1561}, -\frac{200}{1561}, \frac{50}{1561}, -\frac{75}{1561}, -\frac{325}{1561}, \frac{225}{1561})$ $+ \frac{50}{1561}\sqrt{462e^3} \otimes e_8 + \frac{75}{1561}\sqrt{101e^2} \otimes e_5$	{2468, 3457}
942:154	$0, 0, 0, 0, 0, \frac{4}{701}\sqrt{17085e^{12}}, \frac{16}{701}\sqrt{510e^{13}}, \frac{2}{701}\sqrt{66810e^{16}},$ $\frac{6}{701}\sqrt{6035e^{14}} + \frac{6}{701}\sqrt{510e^{25}} + \frac{4}{701}\sqrt{7395e^{37}}$	$(\frac{256}{701}, -\frac{133}{701}, \frac{127}{701}, -\frac{254}{701}, \frac{135}{701}, \frac{123}{701}, \frac{129}{701}, \frac{379}{701}, \frac{2}{701})$ $+ \frac{4}{701}\sqrt{37230e^1} \otimes e_4$	{234678, 2468, 3457, 45}
942:154	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{159e^{12}}, \frac{2}{293}\sqrt{6837e^{13}}, \frac{14}{293}\sqrt{265e^{16}},$ $\frac{2}{293}\sqrt{14469e^{14}} + \frac{2}{293}\sqrt{1961e^{25}} + \frac{2}{293}\sqrt{1643e^{37}}$	$(-\frac{86}{293}, \frac{56}{293}, \frac{101}{293}, \frac{202}{293}, \frac{60}{293}, -\frac{30}{293}, \frac{15}{293}, -\frac{116}{293}, \frac{116}{293})$ $+ \frac{8}{293}\sqrt{2438e^4} \otimes e_8$	{1235789, 12589, 2368, 2678}
942:154	$0, 0, 0, 0, 0, \frac{44}{193}\sqrt{5e^{12}}, \frac{11}{193}\sqrt{55e^{13}}, \frac{11}{193}\sqrt{77e^{16}},$ $\frac{77}{193}e^{14} + \frac{44}{193}\sqrt{2e^{25}} + \frac{22}{193}\sqrt{2e^{37}}$	$(-\frac{55}{193}, \frac{77}{193}, \frac{44}{193}, \frac{88}{193}, -\frac{44}{193}, \frac{22}{193}, -\frac{11}{193}, -\frac{33}{193}, \frac{33}{193})$ $+ \frac{11}{193}\sqrt{161e^2} \otimes e_5 + \frac{22}{193}\sqrt{46e^4} \otimes e_8$	{134567, 1456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:154	$0, 0, 0, 0, 0, \frac{26}{529}\sqrt{110}e^{12}, \frac{13}{529}\sqrt{65}e^{13}, \frac{13}{529}\sqrt{285}e^{16},$ $\frac{13}{529}\sqrt{251}e^{14} + \frac{26}{529}\sqrt{19}e^{25} + \frac{156}{529}e^{37}$	$(\frac{65}{529}, \frac{65}{529}, -\frac{52}{529}, -\frac{104}{529}, -\frac{104}{529}, \frac{130}{529}, \frac{13}{529}, \frac{195}{529}, -\frac{39}{529})$ $+ \frac{13}{529}\sqrt{389}e^2 \otimes e_5 + \frac{26}{529}\sqrt{141}e^1 \otimes e_4$	{234678, 2468, 3457, 45}
942:154	$0, 0, 0, 0, 0, \frac{26}{529}\sqrt{110}e^{12}, \frac{13}{529}\sqrt{65}e^{13}, \frac{13}{529}\sqrt{285}e^{16},$ $\frac{13}{529}\sqrt{251}e^{14} + \frac{26}{529}\sqrt{19}e^{25} + \frac{156}{529}e^{37}$	$(\frac{65}{529}, \frac{65}{529}, -\frac{52}{529}, -\frac{104}{529}, -\frac{104}{529}, \frac{130}{529}, \frac{13}{529}, \frac{195}{529}, -\frac{39}{529})$ $- \frac{13}{529}\sqrt{389}e^2 \otimes e_5 + \frac{26}{529}\sqrt{141}e^1 \otimes e_4$	{234678, 2468, 3457, 45}
942:155	$0, 0, 0, 0, 0, \frac{2}{2253}\sqrt{205086}e^{12}, \frac{2}{751}\sqrt{10794}e^{13}, \frac{2}{2253}\sqrt{233870}e^{16},$ $\frac{2}{2253}\sqrt{17990}e^{17} + \frac{8}{2253}\sqrt{5397}e^{23} + \frac{4}{2253}\sqrt{59367}e^{45}$	$(\frac{146}{2253}, \frac{292}{2253}, \frac{352}{2253}, \frac{707}{751}, -\frac{1477}{2253}, \frac{146}{751}, \frac{166}{751}, \frac{584}{2253}, \frac{644}{2253})$ $+ \frac{3598}{2253}e^4 \otimes e_5$	{13469, 13569, 3479, 3579}
942:155	$0, 0, 0, 0, 0, \frac{62}{2281}\sqrt{119}e^{12}, \frac{62}{2281}\sqrt{246}e^{13}, \frac{62}{2281}\sqrt{805}e^{16},$ $\frac{124}{2281}\sqrt{95}e^{17} + \frac{62}{2281}\sqrt{857}e^{23} + \frac{62}{2281}\sqrt{37}e^{45}$	$(-\frac{186}{2281}, -\frac{372}{2281}, \frac{1178}{2281}, \frac{403}{2281}, -\frac{403}{2281}, -\frac{558}{2281}, \frac{992}{2281}, -\frac{744}{2281}, \frac{806}{2281})$ $+ \frac{62}{2281}\sqrt{1915}e^3 \otimes e_8$	{12346, 2347}
942:155	$0, 0, 0, 0, 0, \frac{31}{1621}\sqrt{119}e^{12}, \frac{31}{1621}\sqrt{246}e^{13}, \frac{31}{1621}\sqrt{805}e^{16},$ $\frac{62}{1621}\sqrt{95}e^{17} + \frac{31}{1621}\sqrt{857}e^{23} + \frac{31}{1621}\sqrt{37}e^{45}$	$(-\frac{93}{1621}, -\frac{186}{1621}, \frac{589}{1621}, \frac{682}{1621}, -\frac{279}{1621}, -\frac{279}{1621}, \frac{496}{1621}, -\frac{372}{1621}, \frac{403}{1621})$ $+ \frac{31}{1621}\sqrt{1915}e^3 \otimes e_8 + \frac{961}{1621}e^4 \otimes e_5$	{12346, 12356, 2347, 2357}
942:155	$0, 0, 0, 0, 0, \frac{31}{1621}\sqrt{119}e^{12}, \frac{31}{1621}\sqrt{246}e^{13}, \frac{31}{1621}\sqrt{805}e^{16},$ $\frac{62}{1621}\sqrt{95}e^{17} + \frac{31}{1621}\sqrt{857}e^{23} + \frac{31}{1621}\sqrt{37}e^{45}$	$(-\frac{93}{1621}, -\frac{186}{1621}, \frac{589}{1621}, \frac{682}{1621}, -\frac{279}{1621}, -\frac{279}{1621}, \frac{496}{1621}, -\frac{372}{1621}, \frac{403}{1621})$ $+ \frac{31}{1621}\sqrt{1915}e^3 \otimes e_8 - \frac{961}{1621}e^4 \otimes e_5$	{12346, 12356, 2347, 2357}
942:155	$0, 0, 0, 0, 0, \frac{1}{114}\sqrt{4399}e^{12}, \frac{1}{114}\sqrt{3818}e^{13}, \frac{1}{114}\sqrt{9794}e^{16},$ $\frac{2}{57}\sqrt{415}e^{17} + \frac{1}{114}\sqrt{166}e^{23} + \frac{1}{114}\sqrt{8466}e^{45}$	$(-\frac{5}{114}, -\frac{5}{57}, \frac{79}{228}, \frac{21}{38}, -\frac{67}{228}, -\frac{5}{38}, \frac{23}{76}, -\frac{10}{57}, \frac{59}{228})$ $+ \frac{1}{114}\sqrt{16019}e^4 \otimes e_8$	{134679, 1456, 349, 457}
942:156	$0, 0, 0, 0, 0, \frac{21}{85}\sqrt{2}e^{12}, \frac{7}{85}\sqrt{30}e^{13}, \frac{14}{85}\sqrt{7}e^{16},$ $\frac{14}{85}\sqrt{2}e^{17} + \frac{7}{17}\sqrt{2}e^{24} + \frac{21}{85}\sqrt{2}e^{35}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, \frac{28}{85}, -\frac{14}{85}, -\frac{14}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{22}e^4 \otimes e_8 + \frac{56}{85}e^3 \otimes e_5$	{12346, 138, 2347, 3678}
942:156	$0, 0, 0, 0, 0, \frac{21}{85}\sqrt{2}e^{12}, \frac{7}{85}\sqrt{30}e^{13}, \frac{14}{85}\sqrt{7}e^{16},$ $\frac{14}{85}\sqrt{2}e^{17} + \frac{7}{17}\sqrt{2}e^{24} + \frac{21}{85}\sqrt{2}e^{35}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, \frac{28}{85}, -\frac{14}{85}, -\frac{14}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $- \frac{14}{85}\sqrt{22}e^4 \otimes e_8 + \frac{56}{85}e^3 \otimes e_5$	{12346, 138, 2347, 3678}
942:156	$0, 0, 0, 0, 0, \frac{43}{4405}\sqrt{3178}e^{12}, \frac{129}{4405}\sqrt{166}e^{13}, \frac{86}{4405}\sqrt{791}e^{16},$ $\frac{43}{4405}\sqrt{2626}e^{17} + \frac{258}{4405}\sqrt{29}e^{24} + \frac{86}{4405}\sqrt{878}e^{35}$	$(-\frac{129}{881}, \frac{1118}{4405}, \frac{1677}{4405}, -\frac{731}{4405}, -\frac{258}{881}, \frac{473}{4405}, \frac{1032}{4405}, -\frac{172}{4405}, \frac{387}{4405})$ $+ \frac{129}{4405}\sqrt{382}e^2 \otimes e_4 + \frac{86}{4405}\sqrt{1110}e^3 \otimes e_8$	{128, 2678}
942:156	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{24205}e^{12}, \frac{4}{587}\sqrt{705}e^{13}, \frac{2}{587}\sqrt{59690}e^{16},$ $\frac{2}{587}\sqrt{38305}e^{17} + \frac{12}{587}\sqrt{235}e^{24} + \frac{2}{587}\sqrt{62510}e^{35}$	$(-\frac{84}{587}, \frac{31}{587}, \frac{333}{587}, \frac{134}{587}, -\frac{168}{587}, -\frac{53}{587}, \frac{249}{587}, -\frac{137}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^3 \otimes e_8$	{128, 13679, 2678, 39}
942:156	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{1558}e^{12}, \frac{1}{35}\sqrt{874}e^{13}, \frac{6}{35}\sqrt{19}e^{16},$ $\frac{1}{35}\sqrt{741}e^{17} + \frac{1}{35}\sqrt{399}e^{24} + \frac{1}{35}\sqrt{817}e^{35}$	$(-\frac{1}{14}, \frac{79}{140}, \frac{13}{70}, -\frac{73}{140}, -\frac{1}{7}, \frac{69}{140}, \frac{4}{35}, \frac{59}{140}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^2 \otimes e_4$	{128, 146, 2678, 47}
942:156	$0, 0, 0, 0, 0, \frac{1}{469}\sqrt{534}e^{12}, \frac{1}{469}\sqrt{570}e^{13}, \frac{2}{469}\sqrt{145}e^{16},$ $\frac{10}{469}\sqrt{5}e^{17} + \frac{1}{469}\sqrt{210}e^{24} + \frac{5}{469}\sqrt{26}e^{35}$	$(\frac{5}{469}, -\frac{1}{469}, -\frac{13}{469}, -\frac{2}{469}, \frac{10}{469}, \frac{4}{469}, -\frac{8}{469}, \frac{9}{469}, -\frac{3}{469})$ $+ \frac{2}{469}\sqrt{154}e^5 \otimes e_8 + \frac{2}{469}\sqrt{67}e^2 \otimes e_4$	{128, 2678}
942:156	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{11890}e^{12}, \frac{1}{133}\sqrt{24070}e^{13}, \frac{2}{133}\sqrt{2465}e^{16},$ $\frac{2}{133}\sqrt{2755}e^{17} + \frac{1}{133}\sqrt{6090}e^{24} + \frac{1}{133}\sqrt{11890}e^{35}$	$(-\frac{27}{133}, \frac{39}{133}, \frac{13}{19}, -\frac{2}{133}, -\frac{54}{133}, \frac{12}{133}, \frac{64}{133}, -\frac{15}{133}, \frac{37}{133})$ $+ \frac{2}{133}\sqrt{8265}e^3 \otimes e_5$	{1245678, 157, 2458, 56}
942:156	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{590}e^{12}, \frac{1}{71}\sqrt{1298}e^{13}, \frac{2}{71}\sqrt{1003}e^{16},$ $\frac{2}{71}\sqrt{590}e^{17} + \frac{3}{71}\sqrt{354}e^{24} + \frac{1}{71}\sqrt{590}e^{35}$	$(\frac{3}{71}, -\frac{21}{71}, \frac{17}{71}, \frac{44}{71}, \frac{6}{71}, -\frac{18}{71}, \frac{20}{71}, -\frac{15}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770}e^4 \otimes e_8$	{123789, 134679, 23689, 349}
942:156	$0, 0, 0, 0, 0, \frac{1}{134}\sqrt{4147}e^{12}, \frac{1}{134}\sqrt{5278}e^{13}, \frac{1}{67}\sqrt{1479}e^{16},$ $\frac{9}{134}\sqrt{58}e^{17} + \frac{1}{67}\sqrt{435}e^{24} + \frac{2}{67}\sqrt{406}e^{35}$	$(\frac{11}{134}, -\frac{29}{134}, -\frac{17}{268}, \frac{85}{268}, \frac{11}{67}, -\frac{9}{67}, \frac{5}{268}, -\frac{7}{134}, \frac{27}{268})$ $+ \frac{9}{134}\sqrt{87}e^5 \otimes e_8$	{1234789, 128, 234689, 2678}
942:156	$0, 0, 0, 0, 0, \frac{23}{709}\sqrt{190}e^{12}, \frac{23}{709}\sqrt{214}e^{13}, \frac{46}{709}\sqrt{5}e^{16},$ $\frac{46}{709}e^{17} + \frac{23}{709}\sqrt{6}e^{24} + \frac{69}{709}\sqrt{2}e^{35}$	$(-\frac{115}{709}, \frac{299}{709}, \frac{299}{709}, -\frac{230}{709}, -\frac{230}{709}, \frac{184}{709}, \frac{184}{709}, \frac{69}{709}, \frac{69}{709})$ $+ \frac{46}{709}\sqrt{159}e^3 \otimes e_5 + \frac{92}{709}\sqrt{39}e^2 \otimes e_4$	{1257, 145678, 256, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:156	$0, 0, 0, 0, 0, \frac{23}{709}\sqrt{190}e^{12}, \frac{23}{709}\sqrt{214}e^{13}, \frac{46}{709}\sqrt{5}e^{16},$ $\frac{46}{709}e^{17} + \frac{23}{709}\sqrt{6}e^{24} + \frac{69}{709}\sqrt{2}e^{35}$	$(-\frac{115}{709}, \frac{299}{709}, \frac{299}{709}, -\frac{230}{709}, -\frac{230}{709}, \frac{184}{709}, \frac{184}{709}, \frac{69}{709}, \frac{69}{709})$ $-\frac{46}{709}\sqrt{159}e^3 \otimes e_5 + \frac{92}{709}\sqrt{39}e^2 \otimes e_4$	{1257, 145678, 256, 458}
942:157	$0, 0, 0, 0, 0, \frac{26}{529}\sqrt{110}e^{12}, \frac{13}{529}\sqrt{65}e^{13}, \frac{13}{529}\sqrt{285}e^{26},$ $\frac{13}{1058}\sqrt{434}e^{14} + \frac{13}{1058}\sqrt{874}e^{25} + \frac{156}{529}e^{37}$	$(\frac{65}{529}, \frac{65}{529}, -\frac{52}{529}, -\frac{104}{529}, -\frac{104}{529}, \frac{130}{529}, \frac{13}{529}, \frac{195}{529}, -\frac{39}{529})$ $+\frac{13}{1058}\sqrt{1686}e^1 \otimes e_4 + \frac{13}{1058}\sqrt{2126}e^2 \otimes e_5$	{23467, 246, 3457, 45}
942:157	$0, 0, 0, 0, 0, \frac{26}{529}\sqrt{110}e^{12}, \frac{13}{529}\sqrt{65}e^{13}, \frac{13}{529}\sqrt{285}e^{26},$ $\frac{13}{1058}\sqrt{434}e^{14} + \frac{13}{1058}\sqrt{874}e^{25} + \frac{156}{529}e^{37}$	$(\frac{65}{529}, \frac{65}{529}, -\frac{52}{529}, -\frac{104}{529}, -\frac{104}{529}, \frac{130}{529}, \frac{13}{529}, \frac{195}{529}, -\frac{39}{529})$ $+\frac{13}{1058}\sqrt{1686}e^1 \otimes e_4 + \frac{13}{1058}\sqrt{2126}e^2 \otimes e_5$	{23467, 246, 3457, 45}
942:157	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{10}e^{12}, \frac{5}{27}\sqrt{6}e^{13}, \frac{2}{27}\sqrt{95}e^{26},$ $\frac{1}{27}\sqrt{70}e^{14} + \frac{4}{27}\sqrt{30}e^{25} + \frac{2}{27}\sqrt{10}e^{37}$	$(\frac{5}{27}, -\frac{8}{27}, \frac{1}{9}, \frac{2}{9}, \frac{19}{27}, -\frac{1}{9}, \frac{8}{27}, -\frac{11}{27}, \frac{11}{27})$ $+\frac{1}{27}\sqrt{1330}e^5 \otimes e_8$	{12356, 12567, 23789, 289}
942:157	$0, 0, 0, 0, 0, \frac{11}{615}\sqrt{53}e^{12}, \frac{11}{205}\sqrt{77}e^{13}, \frac{44}{615}\sqrt{33}e^{26},$ $\frac{11}{615}\sqrt{435}e^{14} + \frac{44}{205}\sqrt{3}e^{25} + \frac{11}{123}\sqrt{6}e^{37}$	$(\frac{77}{205}, -\frac{11}{41}, -\frac{22}{205}, -\frac{44}{205}, \frac{88}{205}, \frac{22}{205}, \frac{11}{205}, -\frac{33}{205}, \frac{33}{205})$ $+\frac{11}{205}\sqrt{186}e^1 \otimes e_4 + \frac{11}{615}\sqrt{1569}e^5 \otimes e_8$	{234567, 2456}
942:157	$0, 0, 0, 0, 0, \frac{2}{3001}\sqrt{101065}e^{12}, \frac{4}{3001}\sqrt{197251}e^{13}, \frac{34}{3001}\sqrt{2870}e^{26},$ $\frac{12}{3001}\sqrt{10455}e^{14} + \frac{2}{3001}\sqrt{396593}e^{25} + \frac{2}{3001}\sqrt{954890}e^{37}$	$(-\frac{279}{3001}, -\frac{308}{3001}, \frac{499}{3001}, \frac{998}{3001}, \frac{1027}{3001}, -\frac{587}{3001}, \frac{220}{3001}, -\frac{895}{3001}, \frac{719}{3001})$ $+\frac{2}{3001}\sqrt{1772471}e^3 \otimes e_8$	{1245789, 146789, 23467, 3457}
942:157	$0, 0, 0, 0, 0, \frac{58}{7153}\sqrt{818}e^{12}, \frac{29}{7153}\sqrt{2470}e^{13}, \frac{29}{7153}\sqrt{5962}e^{26},$ $\frac{29}{7153}\sqrt{1834}e^{14} + \frac{58}{7153}\sqrt{895}e^{25} + \frac{29}{7153}\sqrt{4754}e^{37}$	$(-\frac{1247}{7153}, \frac{609}{7153}, \frac{812}{7153}, \frac{1624}{7153}, -\frac{232}{7153}, -\frac{638}{7153}, -\frac{435}{7153}, -\frac{29}{7153}, \frac{377}{7153})$ $+\frac{29}{7153}\sqrt{5458}e^2 \otimes e_5 + \frac{87}{7153}\sqrt{826}e^3 \otimes e_8$	{23467, 3457}
942:157	$0, 0, 0, 0, 0, \frac{2}{2961}\sqrt{1433130}e^{12}, \frac{2}{2961}\sqrt{1291358}e^{13}, \frac{8}{2961}\sqrt{23115}e^{26},$ $\frac{46}{2961}\sqrt{1407}e^{14} + \frac{92}{2961}\sqrt{134}e^{25} + \frac{2}{2961}\sqrt{617941}e^{37}$	$(\frac{1676}{2961}, -\frac{50}{329}, -\frac{703}{2961}, -\frac{1406}{2961}, \frac{80}{329}, \frac{1226}{2961}, \frac{139}{423}, \frac{776}{2961}, \frac{30}{329})$ $+\frac{10}{2961}\sqrt{149477}e^1 \otimes e_4$	{23467, 246, 3457, 45}
942:157	$0, 0, 0, 0, 0, \frac{2}{971}\sqrt{173582}e^{12}, \frac{4}{971}\sqrt{8717}e^{13}, \frac{2}{971}\sqrt{158422}e^{26},$ $\frac{4}{971}\sqrt{2653}e^{14} + \frac{2}{971}\sqrt{107257}e^{25} + \frac{2}{971}\sqrt{58745}e^{37}$	$(-\frac{184}{971}, \frac{378}{971}, \frac{91}{971}, \frac{182}{971}, \frac{380}{971}, \frac{194}{971}, \frac{93}{971}, \frac{572}{971}, -\frac{2}{971})$ $+\frac{2}{971}\sqrt{309643}e^2 \otimes e_5$	{12378, 128, 135678, 1568}
942:157	$0, 0, 0, 0, 0, \frac{2}{2833}\sqrt{43993}e^{12}, \frac{14}{2833}\sqrt{7134}e^{13}, \frac{2}{2833}\sqrt{1385185}e^{26},$ $\frac{82}{2833}\sqrt{899}e^{14} + \frac{2}{2833}\sqrt{787118}e^{25} + \frac{2}{2833}\sqrt{72529}e^{37}$	$(-\frac{588}{2833}, -\frac{114}{2833}, \frac{781}{2833}, \frac{1562}{2833}, \frac{1088}{2833}, -\frac{702}{2833}, \frac{193}{2833}, -\frac{816}{2833}, \frac{974}{2833})$ $+\frac{58}{2833}\sqrt{3403}e^4 \otimes e_8$	{1235789, 12589, 136789, 1689}
942:157	$0, 0, 0, 0, 0, \frac{1258}{8065}\sqrt{2}e^{12}, \frac{111}{8065}\sqrt{626}e^{13}, \frac{37}{8065}\sqrt{4422}e^{26},$ $\frac{74}{8065}\sqrt{771}e^{14} + \frac{37}{8065}\sqrt{2478}e^{25} + \frac{37}{1613}\sqrt{218}e^{37}$	$(\frac{1073}{8065}, -\frac{259}{1613}, -\frac{148}{8065}, -\frac{296}{8065}, \frac{2072}{8065}, -\frac{222}{8065}, \frac{185}{1613}, -\frac{1517}{8065}, \frac{777}{8065})$ $+\frac{37}{8065}\sqrt{5342}e^1 \otimes e_4 + \frac{37}{8065}\sqrt{9122}e^3 \otimes e_8$	{23467, 3457}
942:158	$0, 0, 0, 0, 0, \frac{24}{323}\sqrt{38}e^{12}, \frac{24}{323}\sqrt{103}e^{13}, \frac{8}{323}\sqrt{813}e^{26},$ $\frac{8}{323}\sqrt{138}e^{17} + \frac{48}{323}\sqrt{13}e^{23} + \frac{8}{323}\sqrt{33}e^{45}$	$(-\frac{24}{323}, -\frac{48}{323}, \frac{168}{323}, \frac{60}{323}, \frac{60}{323}, -\frac{72}{323}, \frac{144}{323}, -\frac{120}{323}, \frac{120}{323})$ $+\frac{160}{323}\sqrt{6}e^3 \otimes e_8$	{13459, 139, 468}
942:158	$0, 0, 0, 0, 0, \frac{14}{369}\sqrt{142}e^{12}, \frac{2}{369}\sqrt{6106}e^{13}, \frac{2}{369}\sqrt{22862}e^{26},$ $\frac{4}{369}\sqrt{426}e^{17} + \frac{4}{369}\sqrt{4047}e^{23} + \frac{2}{369}\sqrt{23430}e^{45}$	$(-\frac{16}{369}, -\frac{32}{369}, \frac{15}{41}, \frac{68}{123}, -\frac{101}{369}, -\frac{16}{123}, \frac{119}{369}, -\frac{80}{369}, \frac{103}{369})$ $+\frac{2}{369}\sqrt{43310}e^4 \otimes e_8$	{1368, 156789, 3457, 49}
942:158	$0, 0, 0, 0, 0, \frac{24}{467}\sqrt{38}e^{12}, \frac{24}{467}\sqrt{103}e^{13}, \frac{8}{467}\sqrt{813}e^{26},$ $\frac{8}{467}\sqrt{138}e^{17} + \frac{48}{467}\sqrt{13}e^{23} + \frac{8}{467}\sqrt{33}e^{45}$	$(-\frac{24}{467}, -\frac{48}{467}, \frac{168}{467}, \frac{204}{467}, -\frac{84}{467}, -\frac{72}{467}, \frac{144}{467}, -\frac{120}{467}, \frac{120}{467})$ $+\frac{160}{467}\sqrt{6}e^3 \otimes e_8 + \frac{288}{467}e^4 \otimes e_5$	{468, 568}
942:158	$0, 0, 0, 0, 0, \frac{8}{141}\sqrt{42}e^{12}, \frac{8}{141}\sqrt{7}e^{13}, \frac{8}{141}\sqrt{77}e^{26},$ $\frac{8}{141}\sqrt{42}e^{17} + \frac{16}{141}\sqrt{7}e^{23} + \frac{8}{141}\sqrt{7}e^{45}$	$(\frac{8}{141}, \frac{16}{141}, \frac{8}{47}, \frac{44}{47}, -\frac{92}{47}, \frac{8}{47}, \frac{32}{141}, \frac{40}{141}, \frac{40}{141})$ $+\frac{224}{141}e^4 \otimes e_5$	{123489, 123589, 234679, 235679}
942:159	$0, 0, 0, 0, 0, \frac{2}{135}\sqrt{894}e^{12}, \frac{4}{135}\sqrt{298}e^{13}, \frac{1}{135}\sqrt{9238}e^{26},$ $\frac{2}{135}\sqrt{149}e^{17} + \frac{2}{135}\sqrt{3129}e^{24} + \frac{2}{135}\sqrt{894}e^{35}$	$(\frac{2}{15}, -\frac{37}{135}, \frac{4}{27}, \frac{31}{45}, \frac{4}{15}, -\frac{19}{135}, \frac{38}{135}, -\frac{56}{135}, \frac{56}{135})$ $+\frac{1}{135}\sqrt{33078}e^4 \otimes e_8$	{124567, 13459, 235789, 568}
942:159	$0, 0, 0, 0, 0, \frac{1}{594}\sqrt{15355}e^{12}, \frac{1}{594}\sqrt{115370}e^{13}, \frac{1}{297}\sqrt{55195}e^{26},$ $\frac{1}{594}\sqrt{58930}e^{17} + \frac{1}{297}\sqrt{42330}e^{24} + \frac{1}{297}\sqrt{17430}e^{35}$	$(\frac{43}{198}, -\frac{13}{54}, -\frac{223}{1188}, \frac{193}{396}, \frac{43}{99}, -\frac{7}{297}, \frac{35}{1188}, -\frac{157}{594}, \frac{293}{1188})$ $+\frac{1}{198}\sqrt{46895}e^5 \otimes e_8$	{1234789, 128, 136789, 1468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:159	$0, 0, 0, 0, 0, \frac{2}{501}\sqrt{5611e^{12}}, \frac{20}{501}\sqrt{181e^{13}}, \frac{2}{501}\sqrt{36562e^{26}},$ $\frac{4}{501}\sqrt{181e^{17}} + \frac{2}{501}\sqrt{19005e^{24}} + \frac{2}{501}\sqrt{30770e^{35}}$	$(-\frac{43}{501}, -\frac{44}{501}, \frac{77}{167}, \frac{63}{167}, -\frac{86}{501}, -\frac{29}{167}, \frac{188}{501}, -\frac{131}{501}, \frac{145}{501})$ $+ \frac{2}{501}\sqrt{75477e^3} \otimes e_8$	{1245789, 156789, 23567, 3457}
942:159	$0, 0, 0, 0, 0, \frac{7}{255}\sqrt{246e^{12}}, \frac{7}{255}\sqrt{438e^{13}}, \frac{14}{255}\sqrt{42e^{26}},$ $\frac{28}{255}\sqrt{6e^{17}} + \frac{7}{255}\sqrt{366e^{24}} + \frac{7}{255}\sqrt{246e^{35}}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, \frac{28}{85}, -\frac{14}{85}, -\frac{14}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{255}\sqrt{165e^3} \otimes e_5 + \frac{14}{255}\sqrt{177e^4} \otimes e_8$	{124567, 568}
942:159	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{17430e^{12}}, \frac{1}{594}\sqrt{115370e^{13}}, \frac{1}{297}\sqrt{55195e^{26}},$ $\frac{1}{594}\sqrt{58930e^{17}} + \frac{1}{297}\sqrt{42330e^{24}} + \frac{1}{198}\sqrt{15355e^{35}}$	$(-\frac{3}{44}, \frac{98}{297}, \frac{29}{297}, -\frac{73}{198}, -\frac{3}{198}, \frac{311}{1188}, \frac{35}{1188}, \frac{703}{1188}, -\frac{23}{594})$ $+ \frac{1}{198}\sqrt{46895e^2} \otimes e_4$	{128, 1468, 267, 47}
942:159	$0, 0, 0, 0, 0, \frac{5}{161}\sqrt{258e^{12}}, \frac{1}{483}\sqrt{3990e^{13}}, \frac{2}{161}\sqrt{185e^{26}},$ $\frac{4}{161}\sqrt{15e^{17}} + \frac{1}{161}\sqrt{610e^{24}} + \frac{5}{483}\sqrt{258e^{35}}$	$(\frac{1}{23}, \frac{1}{161}, -\frac{17}{161}, -\frac{4}{161}, \frac{2}{23}, \frac{8}{161}, -\frac{10}{161}, \frac{9}{161}, -\frac{3}{161})$ $+ \frac{2}{483}\sqrt{1695e^2} \otimes e_4 + \frac{2}{483}\sqrt{1695e^5} \otimes e_8$	{128, 1468}
942:159	$0, 0, 0, 0, 0, \frac{33}{6397}\sqrt{4174e^{12}}, \frac{33}{6397}\sqrt{470e^{13}}, \frac{66}{6397}\sqrt{1387e^{26}},$ $\frac{66}{6397}\sqrt{269e^{17}} + \frac{165}{6397}\sqrt{154e^{24}} + \frac{132}{6397}\sqrt{255e^{35}}$	$(-\frac{726}{6397}, \frac{627}{6397}, \frac{1617}{6397}, -\frac{462}{6397}, -\frac{1452}{6397}, -\frac{99}{6397}, \frac{891}{6397}, \frac{528}{6397}, \frac{165}{6397})$ $+ \frac{165}{6397}\sqrt{238e^2} \otimes e_4 + \frac{66}{6397}\sqrt{1417e^3} \otimes e_8$	{128, 1468}
942:159	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{474e^{12}}, \frac{1}{33}\sqrt{1185e^{13}}, \frac{1}{66}\sqrt{158e^{26}},$ $\frac{1}{22}\sqrt{158e^{17}} + \frac{1}{66}\sqrt{1343e^{24}} + \frac{1}{33}\sqrt{474e^{35}}$	$(-\frac{31}{132}, \frac{7}{33}, \frac{8}{11}, \frac{1}{22}, -\frac{31}{66}, -\frac{4}{132}, \frac{65}{132}, \frac{25}{132}, \frac{17}{66})$ $+ \frac{1}{66}\sqrt{8611e^3} \otimes e_5$	{124567, 157, 2458, 568}
942:160	$0, 0, 0, 0, 0, \frac{58}{6243}\sqrt{482e^{12}}, \frac{29}{6243}\sqrt{2098e^{13}},$ $\frac{58}{6243}\sqrt{509e^{16}} + \frac{58}{6243}\sqrt{885e^{23}}, \frac{58}{2081}\sqrt{15e^{17}} + \frac{29}{6243}\sqrt{4342e^{45}}$	$(-\frac{58}{6243}, \frac{203}{2081}, -\frac{116}{6243}, \frac{1334}{6243}, -\frac{522}{2081}, \frac{551}{6243}, -\frac{58}{2081}, \frac{493}{6243}, -\frac{232}{6243})$ $+ \frac{2146}{6243}e^2 \otimes e_9 + \frac{290}{6243}\sqrt{58e^4} \otimes e_8$	{128, 2678}
942:160	$0, 0, 0, 0, 0, \frac{58}{1243}\sqrt{107e^{12}}, \frac{87}{1243}\sqrt{22e^{13}},$ $\frac{58}{1243}\sqrt{66e^{16}} + \frac{58}{1243}\sqrt{210e^{23}}, \frac{116}{1243}\sqrt{35e^{17}} + \frac{29}{1243}\sqrt{642e^{45}}$	$(-\frac{58}{1243}, \frac{609}{1243}, -\frac{116}{1243}, -\frac{116}{1243}, \frac{116}{1243}, \frac{551}{1243}, -\frac{174}{1243}, \frac{493}{1243}, -\frac{232}{1243})$ $+ \frac{58}{1243}\sqrt{519e^2} \otimes e_9$	{123457, 1237, 23456, 236}
942:160	$0, 0, 0, 0, 0, \frac{1}{1207}\sqrt{263998e^{12}}, \frac{1}{1207}\sqrt{389130e^{13}},$ $\frac{1}{1207}\sqrt{785890e^{16}} + \frac{2}{1207}\sqrt{98427e^{23}}, \frac{1}{1207}\sqrt{520366e^{17}} + \frac{2}{1207}\sqrt{196854e^{45}}$	$(\frac{89}{1207}, -\frac{250}{1207}, \frac{178}{1207}, \frac{691}{1207}, -\frac{335}{1207}, -\frac{161}{1207}, \frac{267}{1207}, -\frac{72}{1207}, \frac{356}{1207})$ $+ \frac{6}{1207}\sqrt{43491e^4} \otimes e_8$	{128, 1456, 2678, 457}
942:161	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{255e^{12}}, \frac{1}{33}\sqrt{102e^{13}}, \frac{1}{66}\sqrt{102e^{16}} + \frac{1}{33}\sqrt{170e^{23}},$ $\frac{17}{66}\sqrt{2e^{37}} + \frac{1}{22}\sqrt{102e^{45}}$	$(-\frac{1}{33}, \frac{4}{11}, -\frac{2}{33}, \frac{2}{11}, -\frac{1}{3}, \frac{1}{3}, -\frac{1}{11}, \frac{10}{33}, -\frac{5}{33})$ $+ \frac{17}{33}e^4 \otimes e_5 + \frac{3}{22}\sqrt{34e^2} \otimes e_9$	{479, 579}
942:161	$0, 0, 0, 0, 0, \frac{28}{1047}\sqrt{255e^{12}}, \frac{14}{1047}\sqrt{510e^{13}},$ $\frac{28}{1047}\sqrt{255e^{16}} + \frac{28}{1047}\sqrt{17e^{23}}, \frac{28}{1047}\sqrt{221e^{37}} + \frac{14}{349}\sqrt{102e^{45}}$	$(\frac{64}{1047}, \frac{50}{349}, \frac{128}{1047}, \frac{331}{349}, -\frac{673}{1047}, \frac{214}{1047}, \frac{64}{349}, \frac{278}{1047}, \frac{320}{1047})$ $+ \frac{1666}{1047}e^4 \otimes e_5$	{124789, 125789, 14679, 15679}
942:161	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{255e^{12}}, \frac{2}{49}\sqrt{102e^{13}}, \frac{1}{49}\sqrt{102e^{16}} + \frac{2}{49}\sqrt{170e^{23}},$ $\frac{17}{49}\sqrt{2e^{37}} + \frac{3}{49}\sqrt{102e^{45}}$	$(-\frac{2}{49}, \frac{24}{49}, -\frac{4}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, -\frac{6}{49}, \frac{20}{49}, -\frac{10}{49})$ $+ \frac{9}{49}\sqrt{34e^2} \otimes e_9$	{12458, 128, 479}
942:161	$0, 0, 0, 0, 0, \frac{85}{2157}\sqrt{22e^{12}}, \frac{34}{2157}\sqrt{173e^{13}}, \frac{17}{2157}\sqrt{586e^{16}} + \frac{85}{719}\sqrt{6e^{23}},$ $\frac{34}{719}\sqrt{5e^{37}} + \frac{17}{2157}\sqrt{1498e^{45}}$	$(-\frac{17}{2157}, \frac{68}{719}, -\frac{34}{2157}, \frac{153}{719}, -\frac{544}{2157}, \frac{187}{2157}, -\frac{17}{2157}, \frac{170}{2157}, -\frac{85}{2157})$ $+ \frac{17}{2157}\sqrt{1898e^2} \otimes e_9 + \frac{17}{2157}\sqrt{2006e^4} \otimes e_8$	{1469, 2678}
942:161	$0, 0, 0, 0, 0, \frac{20}{1567}\sqrt{209e^{12}}, \frac{9}{1567}\sqrt{6270e^{13}},$ $\frac{2}{1567}\sqrt{212135e^{16}} + \frac{4}{1567}\sqrt{77330e^{23}}, \frac{2}{1567}\sqrt{173470e^{37}} + \frac{1}{1567}\sqrt{1322970e^{45}}$	$(\frac{106}{1567}, -\frac{323}{1567}, \frac{212}{1567}, \frac{934}{1567}, -\frac{404}{1567}, -\frac{217}{1567}, \frac{318}{1567}, -\frac{111}{1567}, \frac{530}{1567})$ $+ \frac{2}{1567}\sqrt{699105e^4} \otimes e_8$	{1234679, 135789, 2345, 368}
942:162	$0, 0, 0, 0, 0, \frac{52}{6541}\sqrt{235e^{12}}, \frac{26}{6541}\sqrt{213e^{13}},$ $\frac{13}{6541}\sqrt{6998e^{14}} + \frac{13}{6541}\sqrt{2402e^{26}}, \frac{13}{6541}\sqrt{898e^{17}} + \frac{39}{6541}\sqrt{746e^{25}}$	$(-\frac{13}{211}, \frac{65}{6541}, \frac{767}{6541}, \frac{130}{6541}, -\frac{104}{6541}, -\frac{338}{6541}, \frac{364}{6541}, -\frac{273}{6541}, -\frac{39}{6541})$ $+ \frac{104}{6541}\sqrt{91e^5} \otimes e_8 + \frac{52}{6541}\sqrt{411e^4} \otimes e_9$	{1236789, 3569}
942:162	$0, 0, 0, 0, 0, \frac{780}{4733}\sqrt{6e^{12}}, \frac{39}{4733}\sqrt{1082e^{13}},$ $\frac{39}{4733}\sqrt{3590e^{14}} + \frac{39}{4733}\sqrt{642e^{26}}, \frac{156}{4733}\sqrt{41e^{17}} + \frac{234}{4733}\sqrt{77e^{25}}$	$(-\frac{1014}{4733}, \frac{585}{4733}, \frac{1677}{4733}, \frac{1170}{4733}, -\frac{936}{4733}, -\frac{429}{4733}, \frac{663}{4733}, \frac{156}{4733}, -\frac{351}{4733})$ $+ \frac{156}{4733}\sqrt{221e^3} \otimes e_8 + \frac{39}{4733}\sqrt{5030e^4} \otimes e_9$	{2379, 35679}
942:162	$0, 0, 0, 0, 0, \frac{4}{2257}\sqrt{168667e^{12}}, \frac{8}{2257}\sqrt{15638e^{13}},$ $\frac{4}{2257}\sqrt{122870e^{14}} + \frac{2}{2257}\sqrt{72605e^{26}}, \frac{4}{2257}\sqrt{137391e^{17}} + \frac{2}{2257}\sqrt{293771e^{25}}$	$(\frac{945}{2257}, -\frac{34}{2257}, -\frac{1289}{2257}, -\frac{68}{2257}, \frac{635}{2257}, \frac{911}{2257}, -\frac{344}{2257}, \frac{877}{2257}, \frac{601}{2257})$ $+ \frac{2}{2257}\sqrt{2105545e^1} \otimes e_3$	{12589, 1689, 236, 35}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:162	$0, 0, 0, 0, 0, \frac{39}{4733}\sqrt{2630}e^{12}, \frac{39}{4733}\sqrt{1082}e^{13},$ $\frac{468}{4733}\sqrt{10}e^{14} + \frac{78}{4733}\sqrt{1097}e^{26}, \frac{156}{4733}\sqrt{41}e^{17} + \frac{39}{4733}\sqrt{2258}e^{25}$	$(-\frac{1014}{4733}, \frac{585}{4733}, \frac{1677}{4733}, \frac{1170}{4733}, -\frac{936}{4733}, -\frac{429}{4733}, \frac{663}{4733}, \frac{156}{4733}, -\frac{351}{4733})$ $+ \frac{156}{4733}\sqrt{221}e^3 \otimes e_8 + \frac{39}{4733}\sqrt{5030}e^2 \otimes e_5$	{12478, 145678}
942:162	$0, 0, 0, 0, 0, \frac{8}{369}\sqrt{570}e^{12}, \frac{2}{123}\sqrt{285}e^{13}, \frac{19}{123}\sqrt{30}e^{14} + \frac{1}{369}\sqrt{6270}e^{26},$ $\frac{1}{369}\sqrt{41610}e^{17} + \frac{5}{123}\sqrt{418}e^{25}$	$(\frac{37}{369}, -\frac{59}{369}, \frac{71}{369}, -\frac{118}{369}, \frac{68}{123}, -\frac{22}{369}, \frac{12}{41}, -\frac{9}{41}, \frac{145}{369})$ $+ \frac{2}{369}\sqrt{45030}e^5 \otimes e_8$	{12456, 134579, 23489, 4678}
942:162	$0, 0, 0, 0, 0, \frac{156}{5309}\sqrt{61}e^{12}, \frac{39}{5309}\sqrt{830}e^{13},$ $\frac{39}{5309}\sqrt{4326}e^{14} + \frac{39}{5309}\sqrt{2066}e^{26}, \frac{234}{5309}\sqrt{42}e^{17} + \frac{78}{5309}\sqrt{683}e^{25}$	$(\frac{390}{5309}, \frac{585}{5309}, -\frac{1131}{5309}, \frac{1170}{5309}, -\frac{936}{5309}, \frac{975}{5309}, -\frac{741}{5309}, \frac{1560}{5309}, -\frac{351}{5309})$ $+ \frac{156}{5309}\sqrt{247}e^1 \otimes e_3 + \frac{39}{5309}\sqrt{5806}e^4 \otimes e_9$	{12689, 1589}
942:162	$0, 0, 0, 0, 0, \frac{3}{566}\sqrt{11690}e^{12}, \frac{18}{283}\sqrt{105}e^{13},$ $\frac{3}{566}\sqrt{17430}e^{14} + \frac{3}{566}\sqrt{11795}e^{26}, \frac{15}{566}\sqrt{770}e^{17} + \frac{3}{566}\sqrt{12390}e^{25}$	$(\frac{157}{566}, -\frac{79}{566}, -\frac{273}{1132}, -\frac{79}{283}, \frac{513}{1132}, \frac{39}{283}, \frac{41}{1132}, -\frac{1}{566}, \frac{355}{1132})$ $+ \frac{21}{566}\sqrt{695}e^1 \otimes e_4$	{2345679, 246, 3479, 45}
942:162	$0, 0, 0, 0, 0, \frac{2}{469}\sqrt{10659}e^{12}, \frac{10}{469}\sqrt{1254}e^{13},$ $\frac{2}{469}\sqrt{14630}e^{14} + \frac{4}{469}\sqrt{7106}e^{26}, \frac{4}{469}\sqrt{1254}e^{17} + \frac{6}{469}\sqrt{209}e^{25}$	$(-\frac{111}{469}, \frac{6}{469}, \frac{319}{469}, \frac{12}{469}, \frac{13}{469}, -\frac{15}{67}, \frac{208}{469}, -\frac{99}{469}, \frac{97}{469})$ $+ \frac{6}{469}\sqrt{8987}e^3 \otimes e_8$	{1234569, 1349, 248, 4568}
942:162	$0, 0, 0, 0, 0, \frac{92}{2441}\sqrt{10}e^{12}, \frac{92}{2441}\sqrt{57}e^{13},$ $\frac{46}{2441}\sqrt{890}e^{14} + \frac{46}{2441}\sqrt{33}e^{26}, \frac{46}{2441}\sqrt{74}e^{17} + \frac{138}{2441}\sqrt{55}e^{25}$	$(\frac{575}{2441}, -\frac{322}{2441}, -\frac{483}{2441}, -\frac{644}{2441}, \frac{989}{2441}, \frac{253}{2441}, \frac{92}{2441}, -\frac{69}{2441}, \frac{667}{2441})$ $+ \frac{46}{2441}\sqrt{1238}e^5 \otimes e_8 + \frac{46}{2441}\sqrt{957}e^1 \otimes e_3$	{168, 359}
942:162	$0, 0, 0, 0, 0, \frac{26}{269}\sqrt{74}e^{12}, \frac{26}{269}\sqrt{3}e^{13}, \frac{13}{269}\sqrt{194}e^{14} + \frac{13}{269}\sqrt{310}e^{26},$ $\frac{39}{269}\sqrt{6}e^{17} + \frac{39}{269}\sqrt{22}e^{25}$	$(-\frac{39}{269}, \frac{65}{269}, \frac{39}{269}, \frac{130}{269}, -\frac{104}{269}, \frac{26}{269}, 0, \frac{91}{269}, -\frac{39}{269})$ $+ \frac{26}{269}\sqrt{118}e^2 \otimes e_5$	{123478, 1345678, 2346, 345}
942:162	$0, 0, 0, 0, 0, \frac{52}{269}\sqrt{11}e^{12}, \frac{26}{269}\sqrt{3}e^{13}, \frac{13}{269}\sqrt{278}e^{14} + \frac{117}{269}\sqrt{2}e^{26},$ $\frac{39}{269}\sqrt{6}e^{17} + \frac{13}{269}\sqrt{274}e^{25}$	$(-\frac{39}{269}, \frac{65}{269}, \frac{39}{269}, \frac{130}{269}, -\frac{104}{269}, \frac{26}{269}, 0, \frac{91}{269}, -\frac{39}{269})$ $+ \frac{26}{269}\sqrt{118}e^4 \otimes e_9$	{12689, 1589, 279, 5679}
942:162	$0, 0, 0, 0, 0, \frac{26}{5677}\sqrt{1257}e^{12}, \frac{156}{5677}\sqrt{14}e^{13},$ $\frac{13}{5677}\sqrt{4926}e^{14} + \frac{13}{5677}\sqrt{5042}e^{26}, \frac{13}{5677}\sqrt{3434}e^{17} + \frac{13}{5677}\sqrt{4254}e^{25}$	$(\frac{299}{5677}, \frac{65}{5677}, -\frac{91}{811}, \frac{130}{5677}, -\frac{104}{5677}, \frac{52}{811}, -\frac{338}{5677}, \frac{429}{5677}, -\frac{39}{5677})$ $+ \frac{26}{5677}\sqrt{1301}e^2 \otimes e_5 + \frac{676}{5677}\sqrt{2}e^1 \otimes e_4$	{246, 45}
942:162	$0, 0, 0, 0, 0, \frac{39}{5309}\sqrt{4830}e^{12}, \frac{39}{5309}\sqrt{830}e^{13},$ $\frac{78}{5309}\sqrt{370}e^{14} + \frac{78}{5309}\sqrt{935}e^{26}, \frac{234}{5309}\sqrt{42}e^{17} + \frac{39}{5309}\sqrt{3074}e^{25}$	$(\frac{390}{5309}, \frac{585}{5309}, -\frac{1131}{5309}, \frac{1170}{5309}, -\frac{936}{5309}, \frac{975}{5309}, -\frac{741}{5309}, \frac{1560}{5309}, -\frac{351}{5309})$ $+ \frac{156}{5309}\sqrt{247}e^1 \otimes e_3 + \frac{39}{5309}\sqrt{5806}e^2 \otimes e_5$	{2346, 345}
942:162	$0, 0, 0, 0, 0, \frac{10}{233}\sqrt{110}e^{12}, \frac{10}{233}\sqrt{165}e^{13}, \frac{25}{233}\sqrt{22}e^{14} + \frac{25}{233}\sqrt{22}e^{26},$ $\frac{5}{233}\sqrt{770}e^{17} + \frac{5}{233}\sqrt{330}e^{25}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, -\frac{70}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, -\frac{15}{233}, \frac{75}{233})$ $+ \frac{10}{233}\sqrt{115}e^5 \otimes e_8 + \frac{10}{233}\sqrt{390}e^1 \otimes e_4$	{2345679, 45}
942:162	$0, 0, 0, 0, 0, \frac{74}{5037}\sqrt{330}e^{12}, \frac{74}{5037}\sqrt{907}e^{13},$ $\frac{37}{5037}\sqrt{2130}e^{14} + \frac{74}{5037}\sqrt{743}e^{26}, \frac{37}{5037}\sqrt{3134}e^{17} + \frac{37}{5037}\sqrt{2122}e^{25}$	$(\frac{259}{5037}, -\frac{185}{1679}, \frac{518}{5037}, -\frac{370}{1679}, \frac{1591}{5037}, -\frac{296}{5037}, \frac{259}{1679}, -\frac{37}{219}, \frac{1036}{5037})$ $+ \frac{37}{5037}\sqrt{5410}e^1 \otimes e_4 + \frac{74}{5037}\sqrt{901}e^3 \otimes e_8$	{2345679, 3479}
942:163	$0, 0, 0, 0, 0, \frac{9}{166}\sqrt{110}e^{12}, \frac{3}{166}\sqrt{510}e^{13}, \frac{3}{166}\sqrt{690}e^{16} + \frac{3}{166}\sqrt{210}e^{24},$ $\frac{9}{83}\sqrt{2}e^{17} + \frac{3}{166}\sqrt{186}e^{25}$	$(\frac{15}{166}, \frac{45}{332}, -\frac{39}{166}, \frac{15}{83}, -\frac{63}{332}, \frac{75}{332}, -\frac{12}{83}, \frac{105}{332}, -\frac{9}{166})$ $+ \frac{3}{166}\sqrt{714}e^2 \otimes e_5 + \frac{3}{83}\sqrt{282}e^1 \otimes e_3$	{1248, 1456}
942:163	$0, 0, 0, 0, 0, \frac{14}{4177}\sqrt{1043}e^{12}, \frac{7}{4177}\sqrt{3634}e^{13},$ $\frac{7}{4177}\sqrt{3194}e^{16} + \frac{7}{4177}\sqrt{5222}e^{24}, \frac{7}{4177}\sqrt{4262}e^{17} + \frac{21}{4177}\sqrt{6}e^{25}$	$(\frac{63}{4177}, -\frac{224}{4177}, -\frac{49}{4177}, \frac{126}{4177}, \frac{301}{4177}, -\frac{161}{4177}, \frac{14}{4177}, -\frac{98}{4177}, \frac{77}{4177})$ $+ \frac{168}{4177}\sqrt{5}e^3 \otimes e_8 + \frac{7}{4177}\sqrt{4818}e^4 \otimes e_9$	{1359, 35679}
942:163	$0, 0, 0, 0, 0, \frac{38}{4165}\sqrt{1333}e^{12}, \frac{152}{833}\sqrt{2}e^{13},$ $\frac{38}{833}\sqrt{46}e^{16} + \frac{19}{4165}\sqrt{3754}e^{24}, \frac{19}{4165}\sqrt{2374}e^{17} + \frac{19}{4165}\sqrt{1662}e^{25}$	$(\frac{57}{4165}, \frac{95}{833}, -\frac{304}{4165}, \frac{114}{4165}, -\frac{19}{119}, \frac{76}{595}, -\frac{247}{4165}, \frac{589}{4165}, -\frac{38}{833})$ $+ \frac{114}{4165}\sqrt{115}e^1 \otimes e_3 + \frac{19}{4165}\sqrt{3858}e^2 \otimes e_4$	{146, 3459}
942:163	$0, 0, 0, 0, 0, \frac{43}{4405}\sqrt{334}e^{12}, \frac{43}{4405}\sqrt{2018}e^{13},$ $\frac{86}{4405}\sqrt{87}e^{16} + \frac{86}{4405}\sqrt{878}e^{24}, \frac{43}{4405}\sqrt{886}e^{17} + \frac{258}{4405}\sqrt{29}e^{25}$	$(-\frac{129}{881}, \frac{1118}{4405}, \frac{1677}{4405}, -\frac{258}{881}, -\frac{731}{4405}, \frac{473}{4405}, \frac{1032}{4405}, -\frac{172}{4405}, \frac{387}{4405})$ $+ \frac{129}{4405}\sqrt{382}e^2 \otimes e_5 + \frac{86}{4405}\sqrt{1110}e^3 \otimes e_8$	{12678, 28}
942:163	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{206}e^{12}, \frac{1}{34}\sqrt{139}e^{13}, \frac{5}{17}\sqrt{2}e^{16} + \frac{1}{34}\sqrt{194}e^{24},$ $\frac{1}{17}\sqrt{38}e^{17} + \frac{3}{34}\sqrt{2}e^{25}$	$(0, \frac{5}{68}, -\frac{1}{34}, 0, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, \frac{5}{68}, -\frac{1}{34})$ $+ \frac{1}{34}\sqrt{183}e^4 \otimes e_9 + \frac{3}{34}\sqrt{14}e^1 \otimes e_3$	{123689, 1359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:163	$0, 0, 0, 0, 0, \frac{248}{1669}\sqrt{10}e^{12}, \frac{310}{1669}e^{13}, \frac{62}{1669}\sqrt{193}e^{16} + \frac{31}{1669}\sqrt{130}e^{24},$ $\frac{31}{1669}\sqrt{574}e^{17} + \frac{31}{1669}\sqrt{690}e^{25}$	$(-\frac{279}{1669}, \frac{403}{1669}, \frac{806}{1669}, -\frac{558}{1669}, -\frac{155}{1669}, \frac{124}{1669}, \frac{527}{1669}, -\frac{155}{1669}, \frac{248}{1669})$ $+ \frac{186}{1669}\sqrt{37}e^3 \otimes e_8 + \frac{31}{1669}\sqrt{1626}e^2 \otimes e_4$	{1346, 347}
942:163	$0, 0, 0, 0, 0, \frac{1}{130}\sqrt{14938}e^{12}, \frac{2}{130}\sqrt{485}e^{13},$ $\frac{1}{130}\sqrt{11155}e^{16} + \frac{1}{130}\sqrt{11446}e^{24}, \frac{1}{130}\sqrt{11446}e^{17} + \frac{1}{130}\sqrt{11058}e^{25}$	$(-\frac{21}{130}, \frac{11}{26}, \frac{109}{260}, -\frac{21}{65}, -\frac{17}{65}, \frac{17}{65}, \frac{67}{260}, \frac{1}{10}, \frac{5}{52})$ $+ \frac{1}{130}\sqrt{22407}e^2 \otimes e_4$	{1345679, 146, 3459, 47}
942:163	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{13502}e^{12}, \frac{4}{533}\sqrt{8041}e^{13},$ $\frac{4}{533}\sqrt{13287}e^{16} + \frac{4}{533}\sqrt{7826}e^{24}, \frac{20}{533}\sqrt{43}e^{17} + \frac{4}{533}\sqrt{645}e^{25}$	$(\frac{122}{533}, -\frac{55}{533}, \frac{222}{533}, \frac{244}{533}, \frac{77}{533}, \frac{67}{533}, -\frac{100}{533}, \frac{189}{533}, \frac{22}{533})$ $+ \frac{4}{533}\sqrt{20253}e^1 \otimes e_3$	{1248, 1456, 2345689, 349}
942:163	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{38305}e^{12}, \frac{2}{587}\sqrt{59690}e^{13},$ $\frac{4}{587}\sqrt{705}e^{16} + \frac{2}{587}\sqrt{62510}e^{24}, \frac{2}{587}\sqrt{24205}e^{17} + \frac{12}{587}\sqrt{235}e^{25}$	$(-\frac{84}{587}, \frac{31}{587}, \frac{333}{587}, -\frac{168}{587}, \frac{134}{587}, -\frac{53}{587}, \frac{249}{587}, -\frac{137}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^3 \otimes e_8$	{12678, 139, 28, 3679}
942:163	$0, 0, 0, 0, 0, \frac{44}{733}\sqrt{38}e^{12}, \frac{22}{733}\sqrt{94}e^{13}, \frac{11}{733}\sqrt{386}e^{16} + \frac{33}{733}\sqrt{82}e^{24},$ $\frac{11}{733}\sqrt{598}e^{17} + \frac{11}{733}\sqrt{246}e^{25}$	$(\frac{77}{733}, -\frac{121}{733}, -\frac{121}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{22}{733}\sqrt{105}e^5 \otimes e_8 + \frac{44}{733}\sqrt{57}e^4 \otimes e_9$	{123689, 1359, 23789, 35679}
942:163	$0, 0, 0, 0, 0, \frac{44}{733}\sqrt{38}e^{12}, \frac{22}{733}\sqrt{94}e^{13}, \frac{11}{733}\sqrt{386}e^{16} + \frac{33}{733}\sqrt{82}e^{24},$ $\frac{11}{733}\sqrt{598}e^{17} + \frac{11}{733}\sqrt{246}e^{25}$	$(\frac{77}{733}, -\frac{121}{733}, -\frac{121}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $- \frac{22}{733}\sqrt{105}e^5 \otimes e_8 + \frac{44}{733}\sqrt{57}e^4 \otimes e_9$	{123689, 1359, 23789, 35679}
942:163	$0, 0, 0, 0, 0, \frac{26}{781}\sqrt{149}e^{12}, \frac{26}{781}e^{13}, \frac{13}{781}\sqrt{710}e^{16} + \frac{39}{781}\sqrt{106}e^{24},$ $\frac{13}{781}\sqrt{838}e^{17} + \frac{13}{781}\sqrt{6}e^{25}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{267}e^4 \otimes e_9 + \frac{26}{781}\sqrt{87}e^2 \otimes e_5$	{123689, 1359, 23789, 35679}
942:163	$0, 0, 0, 0, 0, \frac{26}{781}\sqrt{149}e^{12}, \frac{26}{781}e^{13}, \frac{13}{781}\sqrt{710}e^{16} + \frac{39}{781}\sqrt{106}e^{24},$ $\frac{13}{781}\sqrt{838}e^{17} + \frac{13}{781}\sqrt{6}e^{25}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $- \frac{26}{781}\sqrt{267}e^4 \otimes e_9 + \frac{26}{781}\sqrt{87}e^2 \otimes e_5$	{123689, 1359, 23789, 35679}
942:163	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{1763}e^{12}, \frac{1}{139}\sqrt{5074}e^{13}, \frac{1}{139}\sqrt{6794}e^{16} + \frac{1}{139}\sqrt{8342}e^{24},$ $\frac{1}{139}\sqrt{8342}e^{17} + \frac{3}{139}\sqrt{86}e^{25}$	$(\frac{21}{139}, -\frac{8}{139}, -\frac{43}{139}, \frac{42}{139}, \frac{7}{139}, \frac{13}{139}, \frac{22}{139}, \frac{34}{139}, -\frac{1}{139})$ $+ \frac{1}{139}\sqrt{10578}e^4 \otimes e_9$	{123689, 1359, 23789, 35679}
942:163	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{741}e^{12}, \frac{1}{35}\sqrt{57}e^{13}, \frac{1}{35}\sqrt{133}e^{16} + \frac{1}{35}\sqrt{817}e^{24},$ $\frac{2}{35}\sqrt{19}e^{17} + \frac{1}{35}\sqrt{399}e^{25}$	$(-\frac{1}{14}, \frac{79}{140}, \frac{13}{70}, -\frac{1}{7}, -\frac{73}{140}, \frac{69}{140}, \frac{4}{35}, \frac{59}{140}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^2 \otimes e_5$	{12347, 1345678, 2346, 3458}
942:163	$0, 0, 0, 0, 0, \frac{16}{425}\sqrt{146}e^{12}, \frac{64}{425}\sqrt{7}e^{13}, \frac{48}{85}e^{16} + \frac{16}{425}\sqrt{77}e^{24},$ $\frac{16}{425}\sqrt{61}e^{17} + \frac{16}{425}\sqrt{66}e^{25}$	$(\frac{56}{425}, -\frac{4}{17}, -\frac{72}{425}, \frac{112}{425}, \frac{28}{85}, -\frac{44}{425}, -\frac{16}{425}, \frac{12}{425}, \frac{8}{85})$ $+ \frac{16}{425}\sqrt{219}e^1 \otimes e_3 + \frac{48}{425}\sqrt{19}e^5 \otimes e_8$	{234689, 3459}
942:163	$0, 0, 0, 0, 0, \frac{248}{4165}\sqrt{43}e^{12}, \frac{124}{833}\sqrt{5}e^{13},$ $\frac{31}{4165}\sqrt{3790}e^{16} + \frac{31}{4165}\sqrt{1974}e^{24}, \frac{31}{4165}\sqrt{3194}e^{17} + \frac{93}{4165}\sqrt{398}e^{25}$	$(-\frac{403}{4165}, \frac{31}{833}, \frac{1271}{4165}, -\frac{806}{4165}, \frac{62}{833}, -\frac{248}{4165}, \frac{124}{4165}, \frac{93}{595}, \frac{93}{833})$ $+ \frac{124}{4165}\sqrt{258}e^2 \otimes e_4 + \frac{62}{4165}\sqrt{915}e^5 \otimes e_8$	{1345679, 3459}
942:164	$0, 0, 0, 0, 0, \frac{2}{3289}\sqrt{821315}e^{12}, \frac{28}{3289}\sqrt{685}e^{13},$ $\frac{2}{3289}\sqrt{611705}e^{14} + \frac{2}{3289}\sqrt{954890}e^{26}, \frac{2}{3289}\sqrt{534985}e^{15} + \frac{4}{3289}\sqrt{143165}e^{37}$	$(-\frac{392}{3289}, \frac{696}{3289}, -\frac{141}{3289}, \frac{1392}{3289}, -\frac{282}{3289}, \frac{304}{3289}, -\frac{41}{253}, \frac{1000}{3289}, -\frac{674}{3289})$ $+ \frac{30}{3289}\sqrt{8494}e^2 \otimes e_9$	{1234578, 12458, 3459, 4579}
942:164	$0, 0, 0, 0, 0, \frac{14}{629}\sqrt{47}e^{12}, \frac{14}{629}\sqrt{47}e^{13}, \frac{7}{629}\sqrt{26}e^{14} + \frac{14}{629}\sqrt{107}e^{26},$ $\frac{7}{629}\sqrt{26}e^{15} + \frac{14}{629}\sqrt{107}e^{37}$	$(-\frac{91}{629}, \frac{42}{629}, \frac{42}{629}, \frac{84}{629}, \frac{84}{629}, -\frac{49}{629}, -\frac{49}{629}, -\frac{7}{629}, -\frac{7}{629})$ $+ \frac{21}{629}\sqrt{62}e^2 \otimes e_9 + \frac{21}{629}\sqrt{62}e^3 \otimes e_8$	{1456789, 234567}
942:164	$0, 0, 0, 0, 0, \frac{16}{949}\sqrt{173}e^{12}, \frac{32}{949}\sqrt{22}e^{13}, \frac{8}{949}\sqrt{386}e^{14} + \frac{8}{949}\sqrt{1394}e^{26},$ $\frac{16}{949}\sqrt{283}e^{15} + \frac{8}{949}\sqrt{446}e^{37}$	$(-\frac{176}{949}, \frac{96}{949}, \frac{72}{949}, \frac{192}{949}, \frac{144}{949}, -\frac{80}{949}, -\frac{8}{949}, \frac{16}{949}, -\frac{32}{949})$ $+ \frac{48}{949}\sqrt{58}e^2 \otimes e_9 + \frac{8}{949}\sqrt{1326}e^5 \otimes e_8$	{3459, 4579}
942:164	$0, 0, 0, 0, 0, \frac{14}{233}\sqrt{14}e^{12}, \frac{14}{233}\sqrt{14}e^{13}, \frac{28}{233}\sqrt{19}e^{14} + \frac{14}{233}\sqrt{17}e^{26},$ $\frac{14}{233}\sqrt{6}e^{15} + \frac{14}{233}\sqrt{46}e^{37}$	$(\frac{28}{233}, \frac{28}{233}, -\frac{35}{233}, \frac{56}{233}, -\frac{70}{233}, \frac{56}{233}, -\frac{7}{233}, \frac{84}{233}, -\frac{42}{233})$ $+ \frac{14}{233}\sqrt{101}e^1 \otimes e_5 - \frac{14}{233}\sqrt{107}e^4 \otimes e_9$	{2345678, 24568, 34578, 458}
942:164	$0, 0, 0, 0, 0, \frac{14}{233}\sqrt{14}e^{12}, \frac{14}{233}\sqrt{14}e^{13}, \frac{28}{233}\sqrt{19}e^{14} + \frac{14}{233}\sqrt{17}e^{26},$ $\frac{14}{233}\sqrt{6}e^{15} + \frac{14}{233}\sqrt{46}e^{37}$	$(\frac{28}{233}, \frac{28}{233}, -\frac{35}{233}, \frac{56}{233}, -\frac{70}{233}, \frac{56}{233}, -\frac{7}{233}, \frac{84}{233}, -\frac{42}{233})$ $+ \frac{14}{233}\sqrt{101}e^1 \otimes e_5 + \frac{14}{233}\sqrt{107}e^4 \otimes e_9$	{2345678, 24568, 34578, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:164	$0, 0, 0, 0, 0, \frac{28}{801}\sqrt{365}e^{12}, \frac{28}{801}\sqrt{365}e^{13},$ $\frac{2}{801}\sqrt{69715}e^{14} + \frac{2}{801}\sqrt{39785}e^{26}, \frac{8}{801}\sqrt{4745}e^{15} + \frac{4}{801}\sqrt{2190}e^{37}$	$(\frac{392}{801}, -\frac{169}{801}, -\frac{4}{89}, -\frac{338}{801}, -\frac{8}{89}, \frac{223}{801}, \frac{4}{9}, \frac{6}{89}, \frac{320}{801})$ $+ \frac{10}{801}\sqrt{9709}e^1 \otimes e_4$	{2345679, 24569, 34579, 459}
942:164	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{12}\sqrt{21}e^{14} + \frac{1}{12}\sqrt{6}e^{26},$ $\frac{1}{12}\sqrt{21}e^{15} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{33}e^4 \otimes e_9 + \frac{1}{12}\sqrt{33}e^5 \otimes e_8$	{1234567, 12456, 145}
942:164	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{12}\sqrt{21}e^{14} + \frac{1}{12}\sqrt{6}e^{26},$ $\frac{1}{12}\sqrt{21}e^{15} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{33}e^4 \otimes e_9 - \frac{1}{12}\sqrt{33}e^5 \otimes e_8$	{1234567, 12456, 145}
942:164	$0, 0, 0, 0, 0, \frac{156}{2221}\sqrt{10}e^{12}, \frac{13}{2221}\sqrt{221}e^{13},$ $\frac{13}{2221}\sqrt{1254}e^{14} + \frac{13}{2221}\sqrt{1373}e^{26}, \frac{13}{2221}\sqrt{1155}e^{15} + \frac{13}{2221}\sqrt{570}e^{37}$	$(\frac{221}{2221}, \frac{26}{2221}, -\frac{182}{2221}, \frac{52}{2221}, -\frac{364}{2221}, \frac{247}{2221}, \frac{39}{2221}, \frac{273}{2221}, -\frac{143}{2221})$ $+ \frac{13}{2221}\sqrt{1577}e^1 \otimes e_4 + \frac{13}{2221}\sqrt{2438}e^2 \otimes e_9$	{23467, 246}
942:164	$0, 0, 0, 0, 0, \frac{1}{98}\sqrt{1615}e^{12}, \frac{1}{98}\sqrt{1615}e^{13}, \frac{5}{98}\sqrt{238}e^{14} + \frac{1}{98}\sqrt{1105}e^{26},$ $\frac{1}{98}\sqrt{3145}e^{15} + \frac{1}{98}\sqrt{4505}e^{37}$	$(-\frac{19}{98}, \frac{9}{28}, -\frac{3}{196}, \frac{9}{14}, -\frac{3}{98}, \frac{25}{196}, -\frac{41}{196}, \frac{22}{49}, -\frac{11}{49})$ $+ \frac{5}{98}\sqrt{561}e^4 \otimes e_9$	{2359, 2579, 3569, 5679}
942:164	$0, 0, 0, 0, 0, \frac{15}{34}e^{12}, \frac{1}{17}\sqrt{5}e^{13}, \frac{5}{34}\sqrt{3}e^{14} + \frac{1}{34}\sqrt{190}e^{26},$ $\frac{1}{17}\sqrt{15}e^{15} + \frac{1}{34}\sqrt{145}e^{37}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{1}{17}, \frac{5}{17}, -\frac{3}{17})$ $+ \frac{1}{34}\sqrt{185}e^1 \otimes e_5 + \frac{1}{34}\sqrt{410}e^2 \otimes e_9$	{134689, 146789}
942:165	$0, 0, 0, 0, 0, \frac{8}{869}\sqrt{267}e^{12}, \frac{16}{869}\sqrt{5}e^{13}, \frac{4}{869}\sqrt{586}e^{16} + \frac{12}{869}\sqrt{190}e^{24},$ $\frac{8}{869}\sqrt{410}e^{15} + \frac{4}{869}\sqrt{130}e^{37}$	$(\frac{40}{869}, -\frac{104}{869}, \frac{4}{869}, \frac{80}{869}, \frac{8}{869}, -\frac{64}{869}, \frac{4}{79}, -\frac{24}{869}, \frac{48}{869})$ $+ \frac{4}{869}\sqrt{1446}e^5 \otimes e_8 + \frac{4}{869}\sqrt{451}e^4 \otimes e_9$	{123689, 126789}
942:165	$0, 0, 0, 0, 0, \frac{136}{1801}\sqrt{31}e^{12}, \frac{17}{1801}\sqrt{17}e^{13},$ $\frac{51}{1801}\sqrt{173}e^{16} + \frac{34}{1801}\sqrt{274}e^{24}, \frac{17}{1801}\sqrt{1271}e^{15} + \frac{34}{1801}\sqrt{127}e^{37}$	$(\frac{17}{1801}, \frac{323}{1801}, -\frac{136}{1801}, \frac{34}{1801}, -\frac{272}{1801}, \frac{340}{1801}, -\frac{119}{1801}, \frac{357}{1801}, -\frac{255}{1801})$ $+ \frac{17}{1801}\sqrt{1281}e^2 \otimes e_4 + \frac{34}{1801}\sqrt{517}e^1 \otimes e_5$	{3457, 45}
942:165	$0, 0, 0, 0, 0, \frac{64}{2511}\sqrt{123}e^{12}, \frac{64}{2511}\sqrt{485}e^{13},$ $\frac{32}{2511}\sqrt{930}e^{16} + \frac{64}{2511}\sqrt{382}e^{24}, \frac{64}{2511}\sqrt{309}e^{15} + \frac{32}{2511}\sqrt{2086}e^{37}$	$(-\frac{193}{2511}, -\frac{140}{2511}, \frac{166}{837}, -\frac{386}{2511}, \frac{332}{837}, -\frac{37}{279}, \frac{305}{2511}, -\frac{526}{2511}, \frac{803}{2511})$ $+ \frac{32}{837}\sqrt{474}e^3 \otimes e_8$	{1234569, 145789, 23457, 4568}
942:165	$0, 0, 0, 0, 0, \frac{100}{5311}e^{12}, \frac{25}{5311}\sqrt{2206}e^{13}, \frac{25}{5311}\sqrt{510}e^{16} + \frac{100}{5311}\sqrt{211}e^{24},$ $\frac{50}{5311}\sqrt{106}e^{15} + \frac{25}{5311}\sqrt{3682}e^{37}$	$(-\frac{550}{5311}, \frac{875}{5311}, \frac{400}{5311}, -\frac{1100}{5311}, \frac{800}{5311}, \frac{325}{5311}, -\frac{150}{5311}, -\frac{225}{5311}, \frac{250}{5311})$ $+ \frac{25}{5311}\sqrt{3934}e^2 \otimes e_9 + \frac{50}{5311}\sqrt{1378}e^3 \otimes e_8$	{145789, 23457}
942:165	$0, 0, 0, 0, 0, \frac{2}{1257}\sqrt{83711}e^{12}, \frac{7}{1257}\sqrt{1726}e^{13},$ $\frac{1}{1257}\sqrt{267530}e^{16} + \frac{2}{1257}\sqrt{175189}e^{24}, \frac{2}{1257}\sqrt{137217}e^{15} + \frac{1}{1257}\sqrt{540238}e^{37}$	$(-\frac{98}{1257}, \frac{219}{419}, -\frac{18}{1257}, -\frac{196}{419}, -\frac{36}{1257}, \frac{559}{419}, -\frac{152}{1257}, \frac{461}{1257}, -\frac{206}{1257})$ $+ \frac{1}{1257}\sqrt{1807122}e^2 \otimes e_9$	{123457, 1245, 34589, 45789}
942:165	$0, 0, 0, 0, 0, \frac{7}{297}\sqrt{570}e^{12}, \frac{28}{297}\sqrt{10}e^{13}, \frac{7}{99}\sqrt{30}e^{16} + \frac{7}{297}\sqrt{1090}e^{24},$ $\frac{7}{297}\sqrt{1230}e^{15} + \frac{14}{297}\sqrt{65}e^{37}$	$(-\frac{32}{297}, -\frac{7}{297}, \frac{29}{99}, -\frac{64}{297}, \frac{58}{99}, -\frac{13}{99}, \frac{5}{27}, -\frac{71}{297}, \frac{142}{297})$ $+ \frac{14}{99}\sqrt{70}e^5 \otimes e_8$	{134789, 1489, 3468, 4678}
942:165	$0, 0, 0, 0, 0, \frac{38}{1033}\sqrt{14}e^{12}, \frac{19}{1033}\sqrt{573}e^{13},$ $\frac{19}{1033}\sqrt{397}e^{16} + \frac{38}{1033}\sqrt{102}e^{24}, \frac{57}{1033}\sqrt{55}e^{15} + \frac{38}{1033}\sqrt{181}e^{37}$	$(-\frac{133}{1033}, \frac{95}{1033}, \frac{190}{1033}, -\frac{266}{1033}, \frac{380}{1033}, -\frac{38}{1033}, \frac{57}{1033}, -\frac{171}{1033}, \frac{247}{1033})$ $+ \frac{19}{1033}\sqrt{389}e^2 \otimes e_4 + \frac{38}{1033}\sqrt{353}e^3 \otimes e_8$	{125789, 2568}
942:165	$0, 0, 0, 0, 0, \frac{13}{5197}\sqrt{2054}e^{12}, \frac{26}{5197}\sqrt{683}e^{13},$ $\frac{52}{5197}\sqrt{233}e^{16} + \frac{13}{5197}\sqrt{62}e^{24}, \frac{208}{5197}\sqrt{14}e^{15} + \frac{52}{5197}\sqrt{199}e^{37}$	$(\frac{221}{5197}, -\frac{585}{5197}, \frac{26}{5197}, \frac{442}{5197}, \frac{52}{5197}, -\frac{364}{5197}, \frac{247}{5197}, -\frac{143}{5197}, \frac{273}{5197})$ $+ \frac{117}{5197}\sqrt{62}e^3 \otimes e_8 + \frac{13}{5197}\sqrt{4426}e^1 \otimes e_5$	{2568, 357}
942:165	$0, 0, 0, 0, 0, \frac{18}{415}\sqrt{5}e^{12}, \frac{27}{415}\sqrt{6}e^{13}, \frac{36}{415}\sqrt{2}e^{16} + \frac{63}{415}\sqrt{6}e^{24},$ $\frac{18}{415}\sqrt{73}e^{15} + \frac{18}{415}\sqrt{15}e^{37}$	$(-\frac{54}{415}, \frac{99}{415}, \frac{36}{415}, -\frac{108}{415}, \frac{72}{415}, \frac{9}{415}, -\frac{18}{415}, -\frac{9}{415}, \frac{18}{415})$ $+ \frac{9}{415}\sqrt{358}e^5 \otimes e_8 + \frac{9}{415}\sqrt{394}e^2 \otimes e_9$	{3569, 5679}
942:165	$0, 0, 0, 0, 0, \frac{68}{1685}\sqrt{159}e^{12}, \frac{68}{1685}\sqrt{17}e^{13},$ $\frac{68}{1685}\sqrt{106}e^{16} + \frac{68}{1685}\sqrt{19}e^{24}, \frac{34}{1685}\sqrt{215}e^{15} + \frac{34}{1685}\sqrt{349}e^{37}$	$(\frac{136}{1685}, \frac{272}{1685}, -\frac{221}{1685}, \frac{272}{1685}, -\frac{442}{1685}, \frac{408}{1685}, -\frac{17}{337}, \frac{544}{1685}, -\frac{306}{1685})$ $+ \frac{34}{1685}\sqrt{853}e^1 \otimes e_5 + \frac{68}{1685}\sqrt{159}e^2 \otimes e_9$	{2345678, 24568}
942:165	$0, 0, 0, 0, 0, \frac{26}{5197}\sqrt{593}e^{12}, \frac{26}{5197}\sqrt{683}e^{13},$ $\frac{13}{5197}\sqrt{698}e^{16} + \frac{26}{5197}\sqrt{1122}e^{24}, \frac{13}{5197}\sqrt{842}e^{15} + \frac{52}{5197}\sqrt{199}e^{37}$	$(\frac{221}{5197}, -\frac{585}{5197}, \frac{26}{5197}, \frac{442}{5197}, \frac{52}{5197}, -\frac{364}{5197}, \frac{247}{5197}, -\frac{143}{5197}, \frac{273}{5197})$ $+ \frac{117}{5197}\sqrt{62}e^3 \otimes e_8 + \frac{13}{5197}\sqrt{4426}e^4 \otimes e_9$	{126789, 139}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:165	$0, 0, 0, 0, 0, \frac{2}{147}\sqrt{6235e^{12}}, \frac{1}{147}\sqrt{6106e^{13}},$ $\frac{1}{147}\sqrt{10922e^{16}} + \frac{2}{147}\sqrt{2279e^{24}}, \frac{1}{147}\sqrt{9030e^{15}} + \frac{2}{147}\sqrt{1462e^{37}}$	$(-\frac{71}{294}, \frac{101}{147}, \frac{17}{98}, -\frac{71}{147}, \frac{17}{49}, \frac{131}{294}, -\frac{10}{147}, \frac{10}{49}, \frac{31}{294})$ $+ \frac{1}{147}\sqrt{42054e^2} \otimes e_4$	{13467, 146, 349, 479}
942:165	$0, 0, 0, 0, 0, \frac{4}{787}\sqrt{22790e^{12}}, \frac{4}{787}\sqrt{4730e^{13}},$ $\frac{4}{787}\sqrt{22790e^{16}} + \frac{4}{787}\sqrt{13330e^{24}}, \frac{10}{787}\sqrt{2795e^{15}} + \frac{2}{787}\sqrt{30745e^{37}}$	$(\frac{176}{787}, -\frac{72}{787}, -\frac{127}{787}, \frac{352}{787}, -\frac{254}{787}, \frac{104}{787}, \frac{49}{787}, \frac{280}{787}, -\frac{78}{787})$ $+ \frac{2}{787}\sqrt{146845e^1} \otimes e_5$	{2345678, 24568, 3457, 45}
942:165	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{38e^{12}}, \frac{26}{277}\sqrt{13e^{13}}, \frac{26}{277}\sqrt{19e^{16}} + \frac{26}{277}\sqrt{21e^{24}},$ $\frac{13}{277}\sqrt{106e^{15}} + \frac{13}{277}\sqrt{14e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $- \frac{13}{277}\sqrt{302e^5} \otimes e_8 + \frac{26}{277}\sqrt{47e^2} \otimes e_4$	{123789, 1289, 2368, 2678}
942:165	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{38e^{12}}, \frac{26}{277}\sqrt{13e^{13}}, \frac{26}{277}\sqrt{19e^{16}} + \frac{26}{277}\sqrt{21e^{24}},$ $\frac{13}{277}\sqrt{106e^{15}} + \frac{13}{277}\sqrt{14e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{13}{277}\sqrt{302e^5} \otimes e_8 + \frac{26}{277}\sqrt{47e^2} \otimes e_4$	{123789, 1289, 2368, 2678}
942:165	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{55685e^{12}}, \frac{4}{787}\sqrt{4730e^{13}},$ $\frac{2}{787}\sqrt{55685e^{16}} + \frac{10}{787}\sqrt{3741e^{24}}, \frac{2}{787}\sqrt{76970e^{15}} + \frac{2}{787}\sqrt{30745e^{37}}$	$(\frac{176}{787}, -\frac{72}{787}, -\frac{127}{787}, \frac{352}{787}, -\frac{254}{787}, \frac{104}{787}, \frac{49}{787}, \frac{280}{787}, -\frac{78}{787})$ $+ \frac{2}{787}\sqrt{146845e^4} \otimes e_9$	{123689, 126789, 139, 179}
942:166	$0, 0, 0, 0, 0, \frac{29}{1879}\sqrt{1258e^{12}}, \frac{29}{1879}\sqrt{570e^{13}},$ $\frac{29}{1879}\sqrt{1390e^{16}} + \frac{58}{1879}\sqrt{30e^{24}}, \frac{58}{1879}\sqrt{298e^{17}} + \frac{435}{1879}\sqrt{6e^{35}}$	$(-\frac{232}{1879}, \frac{377}{1879}, \frac{754}{1879}, -\frac{464}{1879}, \frac{464}{1879}, \frac{145}{1879}, \frac{522}{1879}, -\frac{87}{1879}, \frac{290}{1879})$ $+ \frac{203}{1879}\sqrt{30e^2} \otimes e_4 + \frac{29}{1879}\sqrt{1866e^3} \otimes e_8$	{134679, 349}
942:166	$0, 0, 0, 0, 0, \frac{22}{733}\sqrt{29e^{12}}, \frac{22}{733}\sqrt{29e^{13}}, \frac{11}{733}\sqrt{106e^{16}} + \frac{22}{733}\sqrt{123e^{24}},$ $\frac{11}{733}\sqrt{106e^{17}} + \frac{22}{733}\sqrt{123e^{35}}$	$(\frac{77}{733}, -\frac{121}{733}, -\frac{121}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{33}{733}\sqrt{74e^4} \otimes e_9 + \frac{33}{733}\sqrt{74e^5} \otimes e_8$	{1234567, 2345}
942:166	$0, 0, 0, 0, 0, \frac{40}{373}\sqrt{35e^{12}}, \frac{8}{373}\sqrt{679e^{13}}, \frac{40}{373}\sqrt{35e^{16}} + \frac{4}{373}\sqrt{4074e^{24}},$ $\frac{4}{373}\sqrt{4270e^{17}} + \frac{56}{373}\sqrt{3e^{35}}$	$(\frac{41}{373}, -\frac{1}{373}, -\frac{112}{373}, \frac{82}{373}, \frac{82}{373}, \frac{40}{373}, -\frac{71}{373}, \frac{81}{373}, -\frac{30}{373})$ $+ \frac{12}{373}\sqrt{518e^4} \otimes e_9$	{1235689, 1359, 235789, 35679}
942:166	$0, 0, 0, 0, 0, \frac{4}{515}\sqrt{130e^{12}}, \frac{1}{515}\sqrt{2410e^{13}}, \frac{2}{515}\sqrt{610e^{16}} + \frac{1}{515}\sqrt{210e^{24}},$ $\frac{6}{103}\sqrt{2e^{17}} + \frac{4}{515}\sqrt{195e^{35}}$	$(\frac{2}{103}, -\frac{1}{103}, -\frac{6}{103}, \frac{4}{103}, \frac{4}{103}, \frac{1}{103}, -\frac{4}{103}, \frac{3}{103}, -\frac{2}{103})$ $+ \frac{1}{515}\sqrt{1830e^2} \otimes e_9 + \frac{1}{515}\sqrt{2910e^5} \otimes e_8$	{128, 2678}
942:166	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{78e^{12}}, \frac{2}{127}\sqrt{78e^{13}}, \frac{2}{127}\sqrt{78e^{16}} + \frac{4}{127}\sqrt{114e^{24}},$ $\frac{2}{127}\sqrt{78e^{17}} + \frac{4}{127}\sqrt{114e^{35}}$	$(-\frac{12}{127}, \frac{26}{127}, \frac{26}{127}, -\frac{24}{127}, -\frac{24}{127}, \frac{14}{127}, \frac{14}{127}, \frac{2}{127}, \frac{2}{127})$ $+ \frac{2}{127}\sqrt{678e^2} \otimes e_9 + \frac{2}{127}\sqrt{678e^3} \otimes e_8$	{1278, 268}
942:166	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{78e^{12}}, \frac{2}{127}\sqrt{78e^{13}}, \frac{2}{127}\sqrt{78e^{16}} + \frac{4}{127}\sqrt{114e^{24}},$ $\frac{2}{127}\sqrt{78e^{17}} + \frac{4}{127}\sqrt{114e^{35}}$	$(-\frac{12}{127}, \frac{26}{127}, \frac{26}{127}, -\frac{24}{127}, -\frac{24}{127}, \frac{14}{127}, \frac{14}{127}, \frac{2}{127}, \frac{2}{127})$ $+ \frac{2}{127}\sqrt{678e^2} \otimes e_9 - \frac{2}{127}\sqrt{678e^3} \otimes e_8$	{1278, 268}
942:166	$0, 0, 0, 0, 0, \frac{23}{709}\sqrt{202e^{12}}, \frac{23}{709}\sqrt{202e^{13}}, \frac{46}{709}\sqrt{2e^{16}} + \frac{46}{709}\sqrt{3e^{24}},$ $\frac{46}{709}\sqrt{2e^{17}} + \frac{46}{709}\sqrt{3e^{35}}$	$(-\frac{115}{709}, \frac{299}{709}, \frac{299}{709}, -\frac{230}{709}, -\frac{230}{709}, \frac{184}{709}, \frac{184}{709}, \frac{69}{709}, \frac{69}{709})$ $+ \frac{69}{709}\sqrt{70e^2} \otimes e_4 + \frac{69}{709}\sqrt{70e^3} \otimes e_5$	{123, 2367}
942:166	$0, 0, 0, 0, 0, \frac{8}{407}\sqrt{695e^{12}}, \frac{2}{407}\sqrt{4587e^{13}}, \frac{2}{407}\sqrt{4587e^{16}} + \frac{4}{407}\sqrt{4170e^{24}},$ $\frac{8}{407}\sqrt{695e^{17}} + \frac{4}{407}\sqrt{4170e^{35}}$	$(-\frac{26}{407}, \frac{207}{407}, -\frac{19}{407}, -\frac{52}{407}, -\frac{52}{407}, \frac{181}{407}, -\frac{45}{407}, \frac{155}{407}, -\frac{71}{407})$ $+ \frac{2}{407}\sqrt{47121e^2} \otimes e_9$	{123457, 145689, 23456, 45789}
942:166	$0, 0, 0, 0, 0, \frac{4}{361}\sqrt{12403e^{12}}, \frac{2}{361}\sqrt{33338e^{13}},$ $\frac{2}{361}\sqrt{33022e^{16}} + \frac{2}{361}\sqrt{25122e^{24}}, \frac{2}{361}\sqrt{33338e^{17}} + \frac{4}{361}\sqrt{6162e^{35}}$	$(-\frac{55}{361}, \frac{206}{361}, \frac{101}{361}, -\frac{110}{361}, -\frac{110}{361}, \frac{151}{361}, \frac{46}{361}, \frac{96}{361}, -\frac{9}{361})$ $+ \frac{6}{361}\sqrt{5530e^2} \otimes e_4$	{134679, 146, 349, 47}
942:167	$0, 0, 0, 0, 0, \frac{4}{2665}\sqrt{301286e^{12}}, \frac{4}{2665}\sqrt{22710e^{13}},$ $\frac{16}{2665}\sqrt{10598e^{14}} + \frac{8}{2665}\sqrt{73429e^{26}}, \frac{2}{2665}\sqrt{828915e^{25}} + \frac{4}{2665}\sqrt{40121e^{37}}$	$(-\frac{48}{533}, \frac{616}{2665}, -\frac{21}{2665}, \frac{1232}{2665}, -\frac{898}{2665}, \frac{376}{2665}, -\frac{261}{2665}, \frac{992}{2665}, -\frac{282}{2665})$ $+ \frac{2}{2665}\sqrt{1763053e^2} \otimes e_5$	{123478, 1248, 1345678, 14568}
942:167	$0, 0, 0, 0, 0, \frac{2}{2929}\sqrt{52043e^{12}}, \frac{8}{2929}\sqrt{40315e^{13}},$ $\frac{12}{2929}\sqrt{7330e^{14}} + \frac{8}{2929}\sqrt{47645e^{26}}, \frac{2}{2929}\sqrt{403883e^{25}} + \frac{4}{2929}\sqrt{212570e^{37}}$	$(-\frac{693}{2929}, \frac{2}{101}, \frac{889}{2929}, \frac{4}{101}, \frac{1027}{2929}, -\frac{635}{2929}, \frac{196}{2929}, -\frac{577}{2929}, \frac{1085}{2929})$ $+ \frac{2}{2929}\sqrt{1798049e^3} \otimes e_8$	{1234569, 1349, 248, 4568}
942:167	$0, 0, 0, 0, 0, \frac{108}{5501}\sqrt{113e^{12}}, \frac{54}{5501}\sqrt{355e^{13}},$ $\frac{108}{5501}\sqrt{230e^{14}} + \frac{135}{5501}\sqrt{14e^{26}}, \frac{27}{5501}\sqrt{1402e^{25}} + \frac{1080}{5501}\sqrt{2e^{37}}$	$(-\frac{1107}{5501}, \frac{567}{5501}, \frac{756}{5501}, \frac{1134}{5501}, -\frac{162}{5501}, -\frac{540}{5501}, -\frac{351}{5501}, \frac{27}{5501}, \frac{405}{5501})$ $+ \frac{27}{5501}\sqrt{4870e^4} \otimes e_9 + \frac{513}{5501}\sqrt{14e^3} \otimes e_8$	{2458, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:167	$0, 0, 0, 0, 0, \frac{2}{2665}\sqrt{557909}e^{12}, \frac{4}{2665}\sqrt{22710}e^{13},$ $\frac{2}{2665}\sqrt{1084781}e^{14} + \frac{2}{2665}\sqrt{588189}e^{26}, \frac{2}{2665}\sqrt{934138}e^{25} + \frac{6}{2665}\sqrt{40121}e^{37}$	$(-\frac{48}{533}, \frac{616}{2665}, -\frac{21}{2665}, \frac{1232}{2665}, -\frac{898}{2665}, \frac{376}{2665}, -\frac{261}{2665}, \frac{992}{2665}, -\frac{282}{2665})$ $+ \frac{2}{2665}\sqrt{1763053}e^4 \otimes e_9$	{239, 279, 3569, 5679}
942:167	$0, 0, 0, 0, 0, \frac{12}{343}\sqrt{285}e^{12}, \frac{2}{343}\sqrt{285}e^{13}, \frac{1}{343}\sqrt{74670}e^{14} + \frac{12}{343}\sqrt{95}e^{26},$ $\frac{10}{343}\sqrt{798}e^{25} + \frac{1}{343}\sqrt{16530}e^{37}$	$(-\frac{4}{343}, -\frac{39}{343}, \frac{12}{49}, -\frac{78}{343}, \frac{29}{49}, -\frac{43}{343}, \frac{80}{343}, -\frac{82}{343}, \frac{164}{343})$ $+ \frac{10}{343}\sqrt{1653}e^5 \otimes e_8$	{134579, 1459, 3468, 4678}
942:167	$0, 0, 0, 0, 0, \frac{27}{5501}\sqrt{3062}e^{12}, \frac{54}{5501}\sqrt{355}e^{13},$ $\frac{27}{5501}\sqrt{1190}e^{14} + \frac{162}{5501}\sqrt{145}e^{26}, \frac{918}{5501}\sqrt{3}e^{25} + \frac{1080}{5501}\sqrt{2}e^{37}$	$(-\frac{1107}{5501}, \frac{567}{5501}, \frac{756}{5501}, \frac{1134}{5501}, -\frac{162}{5501}, -\frac{540}{5501}, \frac{351}{5501}, \frac{27}{5501}, \frac{405}{5501})$ $+ \frac{27}{5501}\sqrt{4870}e^2 \otimes e_5 + \frac{513}{5501}\sqrt{14}e^3 \otimes e_8$	{23467, 3457}
942:167	$0, 0, 0, 0, 0, \frac{26}{563}\sqrt{19}e^{12}, \frac{26}{563}\sqrt{65}e^{13}, \frac{52}{563}\sqrt{17}e^{14} + \frac{208}{563}e^{26},$ $\frac{52}{563}\sqrt{23}e^{25} + \frac{26}{563}\sqrt{7}e^{37}$	$(\frac{130}{563}, -\frac{104}{563}, \frac{13}{563}, -\frac{208}{563}, \frac{260}{563}, \frac{26}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+ \frac{26}{563}\sqrt{211}e^1 \otimes e_4 + \frac{26}{563}\sqrt{281}e^5 \otimes e_8$	{1368, 1678}
942:167	$0, 0, 0, 0, 0, \frac{8}{1013}\sqrt{291}e^{12}, \frac{16}{1013}\sqrt{13}e^{13},$ $\frac{4}{1013}\sqrt{2030}e^{14} + \frac{12}{1013}\sqrt{74}e^{26}, \frac{8}{1013}\sqrt{478}e^{25} + \frac{4}{1013}\sqrt{146}e^{37}$	$(-\frac{104}{1013}, \frac{40}{1013}, \frac{76}{1013}, \frac{80}{1013}, \frac{8}{1013}, -\frac{64}{1013}, -\frac{28}{1013}, -\frac{24}{1013}, \frac{48}{1013})$ $+ \frac{4}{1013}\sqrt{1702}e^5 \otimes e_8 + \frac{8}{1013}\sqrt{527}e^4 \otimes e_9$	{3569, 5679}
942:167	$0, 0, 0, 0, 0, \frac{82}{6889}\sqrt{407}e^{12}, \frac{41}{6889}\sqrt{4110}e^{13},$ $\frac{246}{6889}\sqrt{5}e^{14} + \frac{41}{6889}\sqrt{4030}e^{26}, \frac{123}{6889}\sqrt{298}e^{25} + \frac{41}{6889}\sqrt{3970}e^{37}$	$(\frac{287}{6889}, -\frac{697}{6889}, \frac{574}{6889}, -\frac{1394}{6889}, \frac{2132}{6889}, -\frac{410}{6889}, \frac{861}{6889}, -\frac{1107}{6889}, \frac{1435}{6889})$ $+ \frac{205}{6889}\sqrt{182}e^1 \otimes e_4 + \frac{41}{6889}\sqrt{7646}e^3 \otimes e_8$	{23467, 3457}
942:167	$0, 0, 0, 0, 0, \frac{17}{1981}\sqrt{2085}e^{12}, \frac{17}{1981}\sqrt{323}e^{13},$ $\frac{17}{1981}\sqrt{1271}e^{14} + \frac{17}{1981}\sqrt{1695}e^{26}, \frac{17}{1981}\sqrt{1345}e^{25} + \frac{17}{1981}\sqrt{545}e^{37}$	$(\frac{323}{1981}, \frac{17}{1981}, -\frac{289}{1981}, \frac{34}{1981}, -\frac{272}{1981}, \frac{340}{1981}, \frac{34}{1981}, \frac{51}{283}, -\frac{255}{1981})$ $+ \frac{17}{1981}\sqrt{1493}e^1 \otimes e_4 + \frac{17}{1981}\sqrt{2179}e^2 \otimes e_5$	{23467, 246, 3457, 45}
942:167	$0, 0, 0, 0, 0, \frac{17}{1981}\sqrt{2085}e^{12}, \frac{17}{1981}\sqrt{323}e^{13},$ $\frac{17}{1981}\sqrt{1271}e^{14} + \frac{17}{1981}\sqrt{1695}e^{26}, \frac{17}{1981}\sqrt{1345}e^{25} + \frac{17}{1981}\sqrt{545}e^{37}$	$(\frac{323}{1981}, \frac{17}{1981}, -\frac{289}{1981}, \frac{34}{1981}, -\frac{272}{1981}, \frac{340}{1981}, \frac{34}{1981}, \frac{51}{283}, -\frac{255}{1981})$ $+ \frac{17}{1981}\sqrt{1493}e^1 \otimes e_4 + \frac{17}{1981}\sqrt{2179}e^2 \otimes e_5$	{23467, 246, 3457, 45}
942:167	$0, 0, 0, 0, 0, \frac{14}{2805}\sqrt{29463}e^{12}, \frac{2}{2805}\sqrt{1120997}e^{13},$ $\frac{46}{935}\sqrt{183}e^{14} + \frac{2}{2805}\sqrt{733769}e^{26}, \frac{92}{2805}\sqrt{305}e^{25} + \frac{4}{2805}\sqrt{110837}e^{37}$	$(\frac{94}{165}, -\frac{604}{2805}, -\frac{19}{85}, -\frac{1208}{2805}, \frac{316}{935}, \frac{994}{2805}, \frac{971}{2805}, \frac{26}{187}, \frac{344}{2805})$ $+ \frac{2}{2805}\sqrt{3250751}e^1 \otimes e_4$	{23467, 246, 3457, 45}
942:168	$0, 0, 0, 0, 0, \frac{6}{59}\sqrt{62}e^{12}, \frac{2}{59}\sqrt{62}e^{13}, \frac{2}{59}\sqrt{62}e^{16} + \frac{6}{59}\sqrt{62}e^{24},$ $\frac{2}{59}\sqrt{341}e^{25} + \frac{2}{59}\sqrt{217}e^{37}$	$(-\frac{4}{59}, \frac{34}{59}, \frac{5}{59}, -\frac{8}{59}, -\frac{28}{59}, \frac{30}{59}, \frac{1}{59}, \frac{26}{59}, \frac{6}{59})$ $+ \frac{14}{59}\sqrt{31}e^2 \otimes e_5$	{12347, 124, 1345678, 14568}
942:168	$0, 0, 0, 0, 0, \frac{2}{2793}\sqrt{1365649}e^{12}, \frac{16}{2793}\sqrt{7165}e^{13},$ $\frac{4}{2793}\sqrt{164795}e^{16} + \frac{2}{2793}\sqrt{869831}e^{24}, \frac{2}{2793}\sqrt{1233813}e^{25} + \frac{4}{2793}\sqrt{48722}e^{37}$	$(-\frac{640}{2793}, \frac{1586}{2793}, \frac{303}{931}, -\frac{1280}{2793}, -\frac{136}{931}, \frac{946}{2793}, \frac{269}{2793}, \frac{102}{931}, \frac{62}{147})$ $+ \frac{4}{931}\sqrt{93145}e^2 \otimes e_4$	{1345679, 14569, 34, 47}
942:168	$0, 0, 0, 0, 0, \frac{28}{941}\sqrt{91}e^{12}, \frac{28}{941}\sqrt{70}e^{13}, \frac{70}{941}\sqrt{34}e^{16} + \frac{14}{941}\sqrt{106}e^{24},$ $\frac{28}{941}\sqrt{317}e^{25} + \frac{14}{941}\sqrt{298}e^{37}$	$(-\frac{140}{941}, \frac{112}{941}, \frac{238}{941}, -\frac{280}{941}, \frac{224}{941}, -\frac{28}{941}, \frac{98}{941}, -\frac{168}{941}, \frac{336}{941})$ $+ \frac{14}{941}\sqrt{1790}e^5 \otimes e_8 + \frac{560}{941}e^2 \otimes e_4$	{1345679, 14569}
942:168	$0, 0, 0, 0, 0, \frac{10}{857}\sqrt{2}e^{12}, \frac{60}{857}\sqrt{21}e^{13}, \frac{20}{857}\sqrt{23}e^{16} + \frac{10}{857}\sqrt{1330}e^{24},$ $\frac{40}{857}\sqrt{41}e^{25} + \frac{10}{857}\sqrt{1006}e^{37}$	$(-\frac{120}{857}, \frac{190}{857}, \frac{150}{857}, -\frac{240}{857}, -\frac{10}{857}, \frac{70}{857}, \frac{30}{857}, -\frac{50}{857}, \frac{180}{857})$ $+ \frac{10}{857}\sqrt{1066}e^2 \otimes e_5 + \frac{20}{857}\sqrt{498}e^3 \otimes e_8$	{268, 357}
942:168	$0, 0, 0, 0, 0, \frac{9}{2113}\sqrt{802}e^{12}, \frac{18}{2113}\sqrt{293}e^{13},$ $\frac{9}{2113}\sqrt{107}e^{16} + \frac{18}{2113}\sqrt{439}e^{24}, \frac{9}{2113}\sqrt{133}e^{25} + \frac{9}{2113}\sqrt{1453}e^{37}$	$(\frac{63}{2113}, -\frac{216}{2113}, -\frac{9}{2113}, \frac{126}{2113}, \frac{261}{2113}, -\frac{153}{2113}, \frac{54}{2113}, -\frac{90}{2113}, \frac{45}{2113})$ $+ \frac{9}{2113}\sqrt{1619}e^4 \otimes e_9 + \frac{9}{2113}\sqrt{2218}e^3 \otimes e_8$	{1256789, 139}
942:168	$0, 0, 0, 0, 0, \frac{2}{2961}\sqrt{302619}e^{12}, \frac{2}{2961}\sqrt{718297}e^{13},$ $\frac{10}{987}\sqrt{677}e^{16} + \frac{10}{423}\sqrt{677}e^{24}, \frac{4}{2961}\sqrt{83271}e^{25} + \frac{2}{2961}\sqrt{779227}e^{37}$	$(-\frac{386}{2961}, \frac{167}{2961}, \frac{107}{423}, -\frac{772}{2961}, \frac{15}{47}, -\frac{73}{987}, \frac{121}{987}, -\frac{605}{2961}, \frac{1112}{2961})$ $+ \frac{4}{2961}\sqrt{424479}e^3 \otimes e_8$	{1234569, 14789, 2347, 4568}
942:168	$0, 0, 0, 0, 0, \frac{814}{3121}e^{12}, \frac{333}{3121}\sqrt{22}e^{13}, \frac{185}{3121}\sqrt{22}e^{16} + \frac{222}{3121}\sqrt{55}e^{24},$ $\frac{111}{3121}\sqrt{66}e^{25} + \frac{37}{3121}\sqrt{2002}e^{37}$	$(-\frac{481}{3121}, \frac{407}{3121}, \frac{814}{3121}, -\frac{962}{3121}, \frac{740}{3121}, -\frac{74}{3121}, \frac{333}{3121}, -\frac{555}{3121}, \frac{1147}{3121})$ $+ \frac{37}{3121}\sqrt{4526}e^3 \otimes e_8 + \frac{37}{3121}\sqrt{830}e^2 \otimes e_4$	{14789, 4568}
942:168	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{66}e^{16} + \frac{14}{87}\sqrt{6}e^{24},$ $\frac{4}{87}\sqrt{69}e^{25} + \frac{2}{87}\sqrt{102}e^{37}$	$(\frac{4}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{2}{29}, 0, 0)$ $+ \frac{2}{87}\sqrt{462}e^5 \otimes e_8 + \frac{8}{87}\sqrt{30}e^4 \otimes e_9$	{23457, 245, 34678, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:168	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{66}e^{16} + \frac{14}{87}\sqrt{6}e^{24},$ $\frac{4}{87}\sqrt{69}e^{25} + \frac{2}{87}\sqrt{102}e^{37}$	$(\frac{4}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{2}{29}, 0, 0)$ $-\frac{2}{87}\sqrt{462}e^5 \otimes e_8 + \frac{8}{87}\sqrt{30}e^4 \otimes e_9$	{23457, 245, 34678, 468}
942:168	$0, 0, 0, 0, 0, \frac{2}{729}\sqrt{39955}e^{12}, \frac{2}{729}\sqrt{34770}e^{13},$ $\frac{4}{729}\sqrt{6710}e^{16} + \frac{2}{729}\sqrt{83265}e^{24}, \frac{2}{729}\sqrt{39345}e^{25} + \frac{20}{729}\sqrt{610}e^{37}$	$(\frac{76}{243}, -\frac{148}{729}, -\frac{191}{729}, \frac{152}{243}, -\frac{2}{243}, \frac{80}{729}, \frac{37}{729}, \frac{308}{729}, -\frac{154}{729})$ $+\frac{2}{729}\sqrt{184830}e^4 \otimes e_9$	{123689, 126789, 1359, 1579}
942:169	$0, 0, 0, 0, 0, \frac{22}{733}\sqrt{29}e^{12}, \frac{22}{733}\sqrt{29}e^{13}, \frac{11}{733}\sqrt{106}e^{16} + \frac{22}{733}\sqrt{123}e^{34},$ $\frac{11}{733}\sqrt{106}e^{17} + \frac{22}{733}\sqrt{123}e^{25}$	$(\frac{77}{733}, -\frac{121}{733}, -\frac{121}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+\frac{33}{733}\sqrt{74}e^4 \otimes e_9 + \frac{33}{733}\sqrt{74}e^5 \otimes e_8$	{1234567, 2345}
942:169	$0, 0, 0, 0, 0, \frac{17}{541}\sqrt{2}e^{12}, \frac{68}{541}e^{13}, \frac{34}{541}\sqrt{35}e^{16} + \frac{34}{541}\sqrt{79}e^{34},$ $\frac{85}{541}\sqrt{10}e^{17} + \frac{102}{541}\sqrt{5}e^{25}$	$(\frac{17}{541}, \frac{119}{541}, -\frac{85}{541}, \frac{238}{541}, -\frac{170}{541}, \frac{136}{541}, -\frac{68}{541}, \frac{153}{541}, -\frac{51}{541})$ $+\frac{17}{541}\sqrt{290}e^2 \otimes e_5 + \frac{17}{541}\sqrt{662}e^4 \otimes e_9$	{129, 2679}
942:169	$0, 0, 0, 0, 0, \frac{8}{2657}\sqrt{118333}e^{12}, \frac{2}{2657}\sqrt{659747}e^{13},$ $\frac{4}{2657}\sqrt{132922}e^{16} + \frac{2}{2657}\sqrt{286917}e^{34}, \frac{2}{2657}\sqrt{489542}e^{17} + \frac{2}{2657}\sqrt{223698}e^{25}$	$(-\frac{335}{2657}, \frac{1627}{2657}, \frac{682}{2657}, \frac{275}{2657}, -\frac{1615}{2657}, \frac{1292}{2657}, \frac{347}{2657}, \frac{957}{2657}, \frac{12}{2657})$ $+\frac{42}{2657}\sqrt{8105}e^2 \otimes e_5$	{1248, 156, 24678, 57}
942:169	$0, 0, 0, 0, 0, \frac{23}{709}\sqrt{202}e^{12}, \frac{23}{709}\sqrt{202}e^{13}, \frac{46}{709}\sqrt{2}e^{16} + \frac{46}{709}\sqrt{3}e^{34},$ $\frac{46}{709}\sqrt{2}e^{17} + \frac{46}{709}\sqrt{3}e^{25}$	$(-\frac{115}{709}, \frac{299}{709}, \frac{299}{709}, -\frac{230}{709}, -\frac{230}{709}, \frac{184}{709}, \frac{184}{709}, \frac{69}{709}, \frac{69}{709})$ $+\frac{69}{709}\sqrt{70}e^2 \otimes e_5 + \frac{69}{709}\sqrt{70}e^3 \otimes e_4$	{123, 2367}
942:169	$0, 0, 0, 0, 0, \frac{2}{2741}\sqrt{461663}e^{12}, \frac{2}{2741}\sqrt{142399}e^{13},$ $\frac{4}{2741}\sqrt{140585}e^{16} + \frac{4}{2741}\sqrt{242169}e^{34}, \frac{2}{2741}\sqrt{947815}e^{17} + \frac{14}{2741}\sqrt{13605}e^{25}$	$(\frac{337}{2741}, \frac{184}{2741}, -\frac{815}{2741}, \frac{1673}{2741}, -\frac{325}{2741}, \frac{521}{2741}, -\frac{478}{2741}, \frac{858}{2741}, -\frac{141}{2741})$ $+\frac{6}{2741}\sqrt{234913}e^4 \otimes e_9$	{123689, 1245678, 23789, 2458}
942:170	$0, 0, 0, 0, 0, \frac{22}{615}\sqrt{69}e^{12}, \frac{11}{615}\sqrt{534}e^{13}, \frac{11}{205}\sqrt{41}e^{26} + \frac{11}{205}\sqrt{53}e^{34},$ $\frac{11}{205}e^{17} + \frac{11}{123}\sqrt{30}e^{25}$	$(\frac{11}{205}, -\frac{22}{205}, \frac{44}{205}, -\frac{77}{205}, \frac{88}{205}, -\frac{11}{205}, \frac{11}{205}, -\frac{33}{205}, \frac{66}{205})$ $+\frac{11}{615}\sqrt{1887}e^5 \otimes e_8 + \frac{22}{615}\sqrt{339}e^3 \otimes e_4$	{2489, 3678}
942:170	$0, 0, 0, 0, 0, \frac{2}{177}\sqrt{2289}e^{12}, \frac{4}{59}\sqrt{218}e^{13}, \frac{2}{177}\sqrt{1526}e^{26} + \frac{2}{59}\sqrt{218}e^{34},$ $\frac{2}{177}\sqrt{1635}e^{17} + \frac{4}{177}\sqrt{218}e^{25}$	$(-\frac{34}{177}, \frac{31}{177}, \frac{41}{177}, -\frac{95}{177}, \frac{8}{177}, -\frac{1}{177}, \frac{89}{177}, \frac{28}{177}, \frac{55}{177})$ $+\frac{2}{177}\sqrt{15805}e^3 \otimes e_4$	{12369, 124567, 1359, 147}
942:170	$0, 0, 0, 0, 0, \frac{61}{6493}\sqrt{2994}e^{12}, \frac{61}{6493}\sqrt{1370}e^{13},$ $\frac{122}{6493}\sqrt{978}e^{26} + \frac{122}{6493}\sqrt{323}e^{34}, \frac{122}{6493}\sqrt{23}e^{17} + \frac{122}{6493}\sqrt{466}e^{25}$	$(-\frac{1525}{6493}, \frac{1769}{6493}, \frac{2867}{6493}, -\frac{854}{6493}, -\frac{1952}{6493}, \frac{244}{6493}, \frac{1342}{6493}, \frac{2013}{6493}, -\frac{183}{6493})$ $+\frac{61}{6493}\sqrt{4406}e^3 \otimes e_4 + \frac{61}{6493}\sqrt{7174}e^2 \otimes e_5$	{246, 45}
942:170	$0, 0, 0, 0, 0, \frac{2}{3001}\sqrt{437683}e^{12}, \frac{2}{3001}\sqrt{126619}e^{13},$ $\frac{16}{3001}\sqrt{9970}e^{26} + \frac{4}{3001}\sqrt{313058}e^{34}, \frac{4}{3001}\sqrt{194415}e^{17} + \frac{20}{3001}\sqrt{10967}e^{25}$	$(\frac{222}{3001}, \frac{415}{3001}, -\frac{693}{3001}, \frac{1745}{3001}, -\frac{664}{3001}, \frac{637}{3001}, -\frac{471}{3001}, \frac{1052}{3001}, -\frac{249}{3001})$ $+\frac{6}{3001}\sqrt{284145}e^4 \otimes e_9$	{2345, 279, 346, 5679}
942:170	$0, 0, 0, 0, 0, \frac{4}{2929}\sqrt{395438}e^{12}, \frac{2}{2929}\sqrt{270499}e^{13},$ $\frac{32}{2929}\sqrt{6065}e^{26} + \frac{2}{2929}\sqrt{255943}e^{34}, \frac{4}{2929}\sqrt{18195}e^{17} + \frac{20}{2929}\sqrt{8491}e^{25}$	$(-\frac{597}{2929}, \frac{1045}{2929}, \frac{858}{2929}, \frac{635}{2929}, -\frac{1381}{2929}, \frac{448}{2929}, \frac{9}{2929}, \frac{1493}{2929}, -\frac{336}{2929})$ $+\frac{2}{2929}\sqrt{3038565}e^2 \otimes e_5$	{128, 1568, 2467, 457}
942:170	$0, 0, 0, 0, 0, \frac{13}{903}\sqrt{438}e^{12}, \frac{52}{903}\sqrt{21}e^{13}, \frac{26}{301}\sqrt{5}e^{26} + \frac{52}{903}\sqrt{78}e^{34},$ $\frac{39}{301}\sqrt{10}e^{17} + \frac{52}{301}\sqrt{5}e^{25}$	$(-\frac{13}{301}, \frac{65}{301}, -\frac{13}{301}, \frac{130}{301}, -\frac{104}{301}, \frac{52}{301}, -\frac{26}{301}, \frac{117}{301}, -\frac{39}{301})$ $+\frac{13}{903}\sqrt{1830}e^2 \otimes e_5 + \frac{13}{903}\sqrt{2910}e^4 \otimes e_9$	{2679, 579}
942:170	$0, 0, 0, 0, 0, \frac{38}{2269}\sqrt{123}e^{12}, \frac{19}{2269}\sqrt{286}e^{13},$ $\frac{95}{2269}\sqrt{15}e^{26} + \frac{19}{2269}\sqrt{1733}e^{34}, \frac{19}{2269}\sqrt{515}e^{17} + \frac{19}{2269}\sqrt{1630}e^{25}$	$(\frac{323}{2269}, -\frac{190}{2269}, -\frac{532}{2269}, \frac{475}{2269}, \frac{304}{2269}, \frac{133}{2269}, -\frac{209}{2269}, -\frac{57}{2269}, \frac{114}{2269})$ $+\frac{190}{2269}\sqrt{23}e^4 \otimes e_9 + \frac{19}{2269}\sqrt{1855}e^5 \otimes e_8$	{2345, 5679}
942:170	$0, 0, 0, 0, 0, \frac{4}{387}\sqrt{353}e^{12}, \frac{2}{387}\sqrt{2471}e^{13}, \frac{10}{387}\sqrt{353}e^{26} + \frac{1}{129}\sqrt{9178}e^{34},$ $\frac{1}{387}\sqrt{10590}e^{17} + \frac{4}{387}\sqrt{5295}e^{25}$	$(\frac{104}{387}, -\frac{95}{387}, -\frac{4}{387}, -\frac{50}{387}, \frac{89}{129}, \frac{1}{43}, \frac{68}{387}, -\frac{2}{9}, \frac{4}{9})$ $+\frac{8}{387}\sqrt{3530}e^5 \otimes e_8$	{1256, 134579, 2389, 4678}
942:171	$0, 0, 0, 0, 0, \frac{1}{1253}\sqrt{1057562}e^{12}, \frac{4}{1253}\sqrt{6349}e^{13},$ $\frac{16}{1253}\sqrt{4535}e^{26} + \frac{1}{1253}\sqrt{411778}e^{34}, \frac{4}{1253}\sqrt{49885}e^{25} + \frac{1}{1253}\sqrt{516990}e^{37}$	$(-\frac{339}{1253}, \frac{470}{1253}, \frac{186}{1253}, \frac{415}{1253}, -\frac{437}{1253}, \frac{131}{1253}, -\frac{153}{1253}, \frac{601}{1253}, \frac{33}{1253})$ $+\frac{1}{1253}\sqrt{1931910}e^2 \otimes e_5$	{123478, 128, 1345678, 1568}
942:171	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{33}e^{12}, \frac{5}{79}\sqrt{33}e^{13}, \frac{5}{79}\sqrt{59}e^{26} + \frac{15}{79}\sqrt{5}e^{34},$ $\frac{15}{79}\sqrt{5}e^{25} + \frac{5}{79}\sqrt{59}e^{37}$	$(-\frac{25}{79}, \frac{20}{79}, \frac{20}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, \frac{15}{79}, \frac{15}{79})$ $+\frac{5}{79}\sqrt{71}e^2 \otimes e_5 - \frac{5}{79}\sqrt{71}e^3 \otimes e_4$	{2367, 246, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:171	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{33}e^{12}, \frac{5}{79}\sqrt{33}e^{13}, \frac{5}{79}\sqrt{59}e^{26} + \frac{15}{79}\sqrt{5}e^{34},$ $\frac{15}{79}\sqrt{5}e^{25} + \frac{5}{79}\sqrt{59}e^{37}$	$(-\frac{25}{79}, \frac{20}{79}, \frac{20}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, \frac{15}{79}, \frac{15}{79})$ $+ \frac{5}{79}\sqrt{71}e^2 \otimes e_5 + \frac{5}{79}\sqrt{71}e^3 \otimes e_4$	{2367, 246, 45}
942:171	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{14}e^{12}, \frac{2}{43}\sqrt{14}e^{13}, \frac{1}{43}\sqrt{70}e^{26} + \frac{1}{43}\sqrt{266}e^{34},$ $\frac{1}{43}\sqrt{266}e^{25} + \frac{1}{43}\sqrt{70}e^{37}$	$(\frac{11}{43}, -\frac{7}{43}, -\frac{7}{43}, \frac{4}{43}, \frac{4}{43}, \frac{4}{43}, \frac{4}{43}, -\frac{3}{43}, -\frac{3}{43})$ $+ \frac{2}{43}\sqrt{70}e^4 \otimes e_9 + \frac{2}{43}\sqrt{70}e^5 \otimes e_8$	{1236789, 2345}
942:171	$0, 0, 0, 0, 0, \frac{52}{903}\sqrt{78}e^{12}, \frac{52}{903}\sqrt{21}e^{13}, \frac{13}{301}\sqrt{110}e^{26} + \frac{13}{903}\sqrt{438}e^{34},$ $\frac{13}{301}\sqrt{10}e^{25} + \frac{39}{301}\sqrt{10}e^{37}$	$(-\frac{13}{301}, \frac{65}{301}, -\frac{13}{301}, \frac{130}{301}, -\frac{104}{301}, \frac{52}{301}, -\frac{26}{301}, \frac{117}{301}, -\frac{39}{301})$ $+ \frac{130}{903}\sqrt{21}e^4 \otimes e_9 + \frac{52}{903}\sqrt{165}e^2 \otimes e_5$	{1248, 14568}
942:171	$0, 0, 0, 0, 0, \frac{4}{247}\sqrt{406}e^{12}, \frac{4}{247}\sqrt{406}e^{13}, \frac{1}{247}\sqrt{22330}e^{26} + \frac{1}{247}\sqrt{41006}e^{34},$ $\frac{1}{247}\sqrt{41006}e^{25} + \frac{1}{247}\sqrt{6090}e^{37}$	$(\frac{69}{247}, \frac{7}{247}, -\frac{63}{247}, \frac{146}{247}, -\frac{64}{247}, \frac{4}{13}, \frac{6}{247}, \frac{83}{247}, -\frac{3}{13})$ $+ \frac{14}{247}\sqrt{435}e^4 \otimes e_9$	{124568, 148, 279, 5679}
942:172	$0, 0, 0, 0, 0, \frac{24}{2039}\sqrt{4715}e^{12}, \frac{12}{2039}\sqrt{5773}e^{13},$ $\frac{12}{2039}\sqrt{46}e^{16} + \frac{84}{2039}\sqrt{115}e^{23}, \frac{12}{2039}\sqrt{9545}e^{17} + \frac{12}{2039}\sqrt{16951}e^{26}$	$(\frac{158}{2039}, \frac{237}{2039}, \frac{316}{2039}, -\frac{1419}{2039}, \frac{310}{2039}, \frac{395}{2039}, \frac{474}{2039}, \frac{553}{2039}, \frac{632}{2039})$ $+ \frac{12}{2039}\sqrt{39767}e^2 \otimes e_4$	{123579, 12379, 13456789, 1346789}
942:172	$0, 0, 0, 0, 0, \frac{10}{173}\sqrt{58}e^{12}, \frac{20}{173}\sqrt{11}e^{13}, \frac{20}{173}\sqrt{10}e^{16} + \frac{15}{173}\sqrt{26}e^{23},$ $\frac{5}{173}\sqrt{138}e^{17} + \frac{10}{173}\sqrt{30}e^{26}$	$(\frac{10}{519}, \frac{5}{173}, \frac{20}{519}, \frac{260}{519}, -\frac{70}{173}, \frac{25}{173}, \frac{10}{173}, \frac{35}{519}, \frac{40}{519})$ $+ \frac{5}{173}\sqrt{422}e^4 \otimes e_8 + \frac{5}{173}\sqrt{518}e^2 \otimes e_5$	{2678, 457}
942:172	$0, 0, 0, 0, 0, \frac{24}{281}e^{12}, \frac{168}{281}e^{13}, \frac{24}{281}\sqrt{95}e^{16} + \frac{24}{281}\sqrt{95}e^{23},$ $\frac{24}{281}e^{17} + \frac{168}{281}e^{26}$	$(-\frac{2}{281}, -\frac{3}{281}, -\frac{4}{281}, \frac{1}{281}, \frac{42}{281}, -\frac{5}{281}, -\frac{6}{281}, -\frac{7}{281}, -\frac{8}{281})$ $+ \frac{24}{281}\sqrt{239}e^4 \otimes e_8$	{12345679, 1234679, 135789, 13789}
942:172	$0, 0, 0, 0, 0, \frac{23}{171}\sqrt{14}e^{12}, \frac{23}{513}\sqrt{166}e^{13}, \frac{23}{513}\sqrt{222}e^{16} + \frac{23}{513}\sqrt{22}e^{23},$ $\frac{23}{513}\sqrt{362}e^{17} + \frac{92}{171}\sqrt{2}e^{26}$	$(-\frac{4}{513}, -\frac{2}{171}, -\frac{8}{513}, \frac{1}{513}, \frac{86}{513}, -\frac{10}{513}, -\frac{4}{171}, -\frac{14}{513}, -\frac{16}{513})$ $+ \frac{23}{513}\sqrt{854}e^4 \otimes e_9$	{1245678, 124678, 1457, 147}
942:172	$0, 0, 0, 0, 0, \frac{987}{5077}\sqrt{6}e^{12}, \frac{282}{5077}\sqrt{82}e^{13},$ $\frac{47}{5077}\sqrt{2882}e^{16} + \frac{47}{5077}\sqrt{2598}e^{23}, \frac{141}{5077}\sqrt{370}e^{17} + \frac{94}{5077}\sqrt{177}e^{26}$	$(\frac{94}{5077}, \frac{141}{5077}, \frac{188}{5077}, \frac{2585}{5077}, -\frac{2021}{5077}, \frac{235}{5077}, \frac{282}{5077}, \frac{329}{5077}, \frac{376}{5077})$ $+ \frac{94}{5077}\sqrt{1057}e^4 \otimes e_9 + \frac{94}{5077}\sqrt{1246}e^3 \otimes e_5$	{1245678, 1457}
942:172	$0, 0, 0, 0, 0, \frac{7}{106}\sqrt{10}e^{12}, \frac{7}{159}\sqrt{57}e^{13}, \frac{49}{318}\sqrt{6}e^{16} + \frac{7}{53}\sqrt{15}e^{23},$ $\frac{7}{106}\sqrt{5}e^{17} + \frac{7}{159}\sqrt{66}e^{26}$	$(\frac{7}{106}, \frac{21}{212}, \frac{7}{53}, -\frac{77}{212}, -\frac{35}{106}, \frac{35}{212}, \frac{21}{106}, \frac{49}{212}, \frac{14}{53})$ $+ \frac{35}{318}\sqrt{33}e^3 \otimes e_5 + \frac{7}{159}\sqrt{222}e^2 \otimes e_4$	{1239, 134689}
942:172	$0, 0, 0, 0, 0, \frac{1}{263}\sqrt{28565}e^{12}, \frac{1}{263}\sqrt{21867}e^{13},$ $\frac{5}{263}\sqrt{1182}e^{16} + \frac{1}{263}\sqrt{20094}e^{23}, \frac{1}{263}\sqrt{16154}e^{17} + \frac{1}{263}\sqrt{2955}e^{26}$	$(\frac{19}{263}, \frac{57}{526}, \frac{38}{263}, -\frac{178}{263}, \frac{85}{526}, \frac{95}{526}, \frac{57}{263}, \frac{133}{526}, \frac{76}{263})$ $+ \frac{21}{263}\sqrt{197}e^1 \otimes e_4$	{23456789, 2346789, 34579, 3479}
942:172	$0, 0, 0, 0, 0, \frac{2}{291}\sqrt{2330}e^{12}, \frac{4}{291}\sqrt{699}e^{13}, \frac{2}{291}\sqrt{1398}e^{16} + \frac{2}{291}\sqrt{1398}e^{23},$ $\frac{2}{291}\sqrt{2330}e^{17} + \frac{4}{291}\sqrt{699}e^{26}$	$(\frac{20}{291}, \frac{10}{97}, \frac{40}{291}, 1, -\frac{175}{291}, \frac{50}{291}, \frac{20}{97}, \frac{80}{291}, \frac{80}{291})$ $+ \frac{466}{291}e^4 \otimes e_5$	{2468, 2568, 4, 5}
942:172	$0, 0, 0, 0, 0, \frac{1}{494}\sqrt{140070}e^{12}, \frac{1}{247}\sqrt{42195}e^{13},$ $\frac{145}{494}\sqrt{6}e^{16} + \frac{1}{247}\sqrt{47415}e^{23}, \frac{1}{494}\sqrt{123105}e^{17} + \frac{6}{247}\sqrt{290}e^{26}$	$(\frac{41}{494}, \frac{123}{988}, \frac{41}{247}, -\frac{353}{494}, \frac{141}{988}, \frac{205}{988}, \frac{123}{494}, \frac{287}{988}, \frac{82}{247})$ $+ \frac{11}{494}\sqrt{3045}e^3 \otimes e_4$	{2458, 248, 456, 46}
942:172	$0, 0, 0, 0, 0, \frac{20}{493}\sqrt{170}e^{12}, \frac{20}{493}\sqrt{21}e^{13}, \frac{20}{493}\sqrt{74}e^{16} + \frac{100}{493}e^{23},$ $\frac{20}{493}\sqrt{13}e^{17} + \frac{20}{493}\sqrt{77}e^{26}$	$(\frac{30}{493}, \frac{45}{493}, \frac{60}{493}, -\frac{10}{29}, -\frac{155}{493}, \frac{75}{493}, \frac{90}{493}, \frac{105}{493}, \frac{120}{493})$ $+ \frac{20}{493}\sqrt{211}e^2 \otimes e_5 + \frac{20}{493}\sqrt{226}e^1 \otimes e_4$	{234678, 3457}
942:172	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{54}\sqrt{23}e^{13}, \frac{1}{27}\sqrt{69}e^{16} + \frac{1}{27}\sqrt{46}e^{23},$ $\frac{1}{27}\sqrt{23}e^{17} + \frac{1}{9}\sqrt{23}e^{26}$	$(\frac{1}{54}, \frac{1}{36}, \frac{1}{27}, \frac{1}{2}, -\frac{43}{108}, \frac{5}{18}, \frac{1}{108}, \frac{7}{108}, \frac{2}{27})$ $+ \frac{1}{18}\sqrt{138}e^2 \otimes e_5 + \frac{1}{54}\sqrt{989}e^4 \otimes e_9$	{2346, 3458}
942:172	$0, 0, 0, 0, 0, \frac{50}{159}e^{12}, \frac{25}{954}\sqrt{35}e^{13}, \frac{25}{954}\sqrt{114}e^{16} + \frac{50}{477}\sqrt{22}e^{23},$ $\frac{25}{477}\sqrt{83}e^{17} + \frac{25}{477}\sqrt{21}e^{26}$	$(-\frac{25}{954}, -\frac{25}{636}, -\frac{25}{477}, \frac{1075}{1908}, \frac{175}{318}, -\frac{125}{1908}, -\frac{25}{318}, -\frac{175}{1908}, -\frac{50}{477})$ $+ \frac{175}{954}\sqrt{17}e^5 \otimes e_9 + \frac{25}{954}\sqrt{858}e^4 \otimes e_8$	{1234567, 13578}
942:172	$0, 0, 0, 0, 0, \frac{11}{571}\sqrt{354}e^{12}, \frac{11}{571}\sqrt{82}e^{13}, \frac{22}{571}\sqrt{183}e^{16} + \frac{22}{571}\sqrt{17}e^{23},$ $\frac{22}{571}\sqrt{47}e^{17} + \frac{55}{571}\sqrt{10}e^{26}$	$(\frac{11}{571}, \frac{33}{1142}, \frac{22}{571}, \frac{561}{1142}, -\frac{231}{571}, \frac{55}{1142}, \frac{33}{571}, \frac{77}{1142}, \frac{44}{571})$ $+ \frac{11}{571}\sqrt{1162}e^1 \otimes e_5 + \frac{22}{571}\sqrt{221}e^4 \otimes e_8$	{1278, 1467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:172	$0, 0, 0, 0, 0, \frac{23}{1194}\sqrt{478}e^{12}, \frac{23}{597}\sqrt{73}e^{13}, \frac{23}{1194}\sqrt{14}e^{16} + \frac{23}{597}\sqrt{247}e^{23},$ $\frac{23}{1194}\sqrt{357}e^{17} + \frac{23}{597}\sqrt{94}e^{26}$	$(\frac{23}{1194}, \frac{23}{796}, \frac{23}{597}, \frac{1219}{2388}, -\frac{161}{398}, \frac{115}{2388}, \frac{23}{398}, \frac{161}{2388}, \frac{46}{597})$ $+ \frac{23}{1194}\sqrt{1169}e^3 \otimes e_5 + \frac{23}{597}\sqrt{254}e^4 \otimes e_8$	{258, 456}
942:172	$0, 0, 0, 0, 0, \frac{41}{3893}\sqrt{118}e^{16} + \frac{41}{3893}\sqrt{74}e^{12}, \frac{82}{3893}\sqrt{582}e^{13},$ $\frac{41}{3893}\sqrt{758}e^{23}, \frac{41}{3893}\sqrt{1698}e^{17} + \frac{984}{3893}e^{26}$	$(\frac{246}{3893}, \frac{369}{3893}, \frac{492}{3893}, -\frac{1435}{3893}, -\frac{1189}{3893}, \frac{615}{3893}, \frac{738}{3893}, \frac{861}{3893}, \frac{984}{3893})$ $+ \frac{82}{3893}\sqrt{806}e^3 \otimes e_5 + \frac{82}{3893}\sqrt{929}e^1 \otimes e_4$	{12369, 1389}
942:172	$0, 0, 0, 0, 0, \frac{45}{4861}\sqrt{662}e^{16} + \frac{45}{4861}\sqrt{978}e^{12}, \frac{270}{4861}\sqrt{51}e^{13},$ $\frac{45}{4861}\sqrt{1114}e^{23}, \frac{45}{4861}\sqrt{2378}e^{17} + \frac{90}{4861}\sqrt{237}e^{26}$	$(\frac{90}{4861}, \frac{135}{4861}, \frac{180}{4861}, \frac{2385}{4861}, -\frac{1935}{4861}, \frac{225}{4861}, \frac{270}{4861}, \frac{315}{4861}, \frac{360}{4861})$ $+ \frac{90}{4861}\sqrt{1238}e^1 \otimes e_5 + \frac{90}{4861}\sqrt{922}e^4 \otimes e_9$	{12389, 1369}
942:173	$0, 0, 0, 0, 0, -\frac{26}{827}\sqrt{210}e^{12}, \frac{52}{827}\sqrt{30}e^{13}, \frac{156}{827}\sqrt{5}e^{16} + \frac{26}{827}\sqrt{227}e^{23},$ $\frac{78}{827}\sqrt{10}e^{26} + \frac{156}{827}\sqrt{5}e^{37}$	$(\frac{13}{827}, \frac{26}{827}, \frac{26}{827}, \frac{403}{827}, -\frac{325}{827}, \frac{39}{827}, \frac{39}{827}, \frac{52}{827}, \frac{65}{827})$ $+ \frac{104}{827}\sqrt{19}e^4 \otimes e_9 + \frac{52}{827}\sqrt{106}e^1 \otimes e_5$	{12389, 1369, 2345678, 3457, 12389, 1369, 2345678, 3457}
942:173	$0, 0, 0, 0, 0, \frac{26}{827}\sqrt{210}e^{12}, \frac{52}{827}\sqrt{30}e^{13}, \frac{156}{827}\sqrt{5}e^{16} + \frac{26}{827}\sqrt{227}e^{23},$ $\frac{78}{827}\sqrt{10}e^{26} + \frac{156}{827}\sqrt{5}e^{37}$	$(\frac{13}{827}, \frac{26}{827}, \frac{26}{827}, \frac{403}{827}, -\frac{325}{827}, \frac{39}{827}, \frac{39}{827}, \frac{52}{827}, \frac{65}{827})$ $+ \frac{104}{827}\sqrt{19}e^4 \otimes e_9 + \frac{52}{827}\sqrt{106}e^1 \otimes e_5$	{12389, 1369, 2345678, 3457, 12389, 1369, 2345678, 3457}
942:173	$0, 0, 0, 0, 0, -\frac{23}{1301}\sqrt{866}e^{12}, \frac{23}{1301}\sqrt{134}e^{13},$ $\frac{23}{1301}\sqrt{382}e^{16} + \frac{23}{1301}\sqrt{130}e^{23}, \frac{23}{1301}\sqrt{370}e^{26} + \frac{46}{1301}\sqrt{5}e^{37}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{391}{1301}, \frac{207}{1301}, \frac{207}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301}\sqrt{1082}e^2 \otimes e_5 + \frac{46}{1301}\sqrt{305}e^1 \otimes e_4$	{12389, 13569, 234678, 3457, 12389, 13569, 234678, 3457}
942:173	$0, 0, 0, 0, 0, \frac{23}{1301}\sqrt{866}e^{12}, \frac{23}{1301}\sqrt{134}e^{13},$ $\frac{23}{1301}\sqrt{382}e^{16} + \frac{23}{1301}\sqrt{130}e^{23}, \frac{23}{1301}\sqrt{370}e^{26} + \frac{46}{1301}\sqrt{5}e^{37}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{391}{1301}, \frac{207}{1301}, \frac{207}{1301}, \frac{276}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301}\sqrt{1082}e^2 \otimes e_5 + \frac{46}{1301}\sqrt{305}e^1 \otimes e_4$	{12389, 13569, 234678, 3457, 12389, 13569, 234678, 3457}
942:173	$0, 0, 0, 0, 0, -\frac{2}{693}\sqrt{23694}e^{12}, \frac{4}{693}\sqrt{6103}e^{13},$ $\frac{4}{693}\sqrt{359}e^{16} + \frac{2}{693}\sqrt{50619}e^{23}, \frac{2}{693}\sqrt{75390}e^{26} + \frac{8}{693}\sqrt{4667}e^{37}$	$(-\frac{5}{693}, -\frac{10}{693}, -\frac{10}{693}, 1, \frac{125}{693}, -\frac{5}{231}, -\frac{5}{231}, -\frac{20}{693}, -\frac{25}{693})$ $+ \frac{4}{693}\sqrt{50978}e^4 \otimes e_9$	{12579, 1279, 156789, 16789, 2456, 246, 458, 48, 12579, 1279, 156789, 16789, 2456, 246, 458, 48}
942:173	$0, 0, 0, 0, 0, \frac{2}{693}\sqrt{23694}e^{12}, \frac{4}{693}\sqrt{6103}e^{13},$ $\frac{4}{693}\sqrt{359}e^{16} + \frac{2}{693}\sqrt{50619}e^{23}, \frac{2}{693}\sqrt{75390}e^{26} + \frac{8}{693}\sqrt{4667}e^{37}$	$(-\frac{5}{693}, -\frac{10}{693}, -\frac{10}{693}, 1, \frac{125}{693}, -\frac{5}{231}, -\frac{5}{231}, -\frac{20}{693}, -\frac{25}{693})$ $+ \frac{4}{693}\sqrt{50978}e^4 \otimes e_9$	{12579, 1279, 156789, 16789, 2456, 246, 458, 48, 12579, 1279, 156789, 16789, 2456, 246, 458, 48}
942:173	$0, 0, 0, 0, 0, -\frac{1}{42}\sqrt{335}e^{12}, \frac{1}{42}\sqrt{201}e^{13}, \frac{1}{21}\sqrt{67}e^{16} + \frac{1}{42}\sqrt{67}e^{23},$ $\frac{1}{42}\sqrt{201}e^{26} + \frac{1}{42}\sqrt{335}e^{37}$	$(\frac{5}{84}, \frac{5}{42}, \frac{5}{42}, 1, -\frac{25}{42}, \frac{5}{28}, \frac{5}{28}, \frac{5}{21}, \frac{25}{84})$ $+ \frac{67}{42}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 234678, 235678, 347, 357, 123489, 123589, 13469, 13569, 234678, 235678, 347, 357}
942:173	$0, 0, 0, 0, 0, \frac{1}{42}\sqrt{335}e^{12}, \frac{1}{42}\sqrt{201}e^{13}, \frac{1}{21}\sqrt{67}e^{16} + \frac{1}{42}\sqrt{67}e^{23},$ $\frac{1}{42}\sqrt{201}e^{26} + \frac{1}{42}\sqrt{335}e^{37}$	$(\frac{5}{84}, \frac{5}{42}, \frac{5}{42}, 1, -\frac{25}{42}, \frac{5}{28}, \frac{5}{28}, \frac{5}{21}, \frac{25}{84})$ $+ \frac{67}{42}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 234678, 235678, 347, 357, 123489, 123589, 13469, 13569, 234678, 235678, 347, 357}
942:173	$0, 0, 0, 0, 0, -\frac{13}{772}\sqrt{330}e^{12}, \frac{13}{772}\sqrt{310}e^{13}, \frac{13}{386}\sqrt{62}e^{16} + \frac{26}{193}\sqrt{15}e^{23},$ $\frac{13}{772}\sqrt{454}e^{26} + \frac{13}{772}\sqrt{434}e^{37}$	$(\frac{13}{772}, \frac{13}{386}, \frac{13}{386}, \frac{195}{386}, -\frac{78}{193}, \frac{39}{772}, \frac{39}{772}, \frac{13}{193}, \frac{65}{772})$ $+ \frac{13}{386}\sqrt{382}e^3 \otimes e_5 + \frac{52}{193}\sqrt{5}e^4 \otimes e_8$	{123469, 1389, 2347, 3678, 123469, 1389, 2347, 3678}
942:173	$0, 0, 0, 0, 0, \frac{13}{772}\sqrt{330}e^{12}, \frac{13}{772}\sqrt{310}e^{13}, \frac{13}{386}\sqrt{62}e^{16} + \frac{26}{193}\sqrt{15}e^{23},$ $\frac{13}{772}\sqrt{454}e^{26} + \frac{13}{772}\sqrt{434}e^{37}$	$(\frac{13}{772}, \frac{13}{386}, \frac{13}{386}, \frac{195}{386}, -\frac{78}{193}, \frac{39}{772}, \frac{39}{772}, \frac{13}{193}, \frac{65}{772})$ $+ \frac{13}{386}\sqrt{382}e^3 \otimes e_5 + \frac{52}{193}\sqrt{5}e^4 \otimes e_8$	{123469, 1389, 2347, 3678, 123469, 1389, 2347, 3678}
942:173	$0, 0, 0, 0, 0, -\frac{8}{35}e^{12}, \frac{4}{105}\sqrt{78}e^{13}, \frac{8}{105}\sqrt{21}e^{16} + \frac{12}{35}\sqrt{2}e^{23},$ $\frac{4}{105}\sqrt{78}e^{26} + \frac{8}{35}e^{37}$	$(\frac{2}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{12}{35}, -\frac{12}{35}, \frac{6}{35}, \frac{6}{35}, \frac{8}{35}, \frac{2}{7})$ $+ \frac{4}{105}\sqrt{282}e^2 \otimes e_4 + \frac{4}{105}\sqrt{282}e^3 \otimes e_5$	{1239, 134689, 2367, 3478, 1239, 134689, 2367, 3478}
942:173	$0, 0, 0, 0, 0, \frac{8}{35}e^{12}, \frac{4}{105}\sqrt{78}e^{13}, \frac{8}{105}\sqrt{21}e^{16} + \frac{12}{35}\sqrt{2}e^{23},$ $\frac{4}{105}\sqrt{78}e^{26} + \frac{8}{35}e^{37}$	$(\frac{2}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{12}{35}, -\frac{12}{35}, \frac{6}{35}, \frac{6}{35}, \frac{8}{35}, \frac{2}{7})$ $+ \frac{4}{105}\sqrt{282}e^2 \otimes e_4 + \frac{4}{105}\sqrt{282}e^3 \otimes e_5$	{1239, 134689, 2367, 3478, 1239, 134689, 2367, 3478}
942:173	$0, 0, 0, 0, 0, -\frac{1}{332}\sqrt{51986}e^{12}, \frac{1}{332}\sqrt{15846}e^{13},$ $\frac{1}{166}\sqrt{5282}e^{16} + \frac{2}{83}\sqrt{695}e^{23}, \frac{15}{332}\sqrt{278}e^{26} + \frac{1}{332}\sqrt{26410}e^{37}$	$(\frac{23}{332}, \frac{23}{166}, \frac{23}{166}, -\frac{58}{83}, \frac{25}{166}, \frac{69}{332}, \frac{69}{332}, \frac{23}{83}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198}e^2 \otimes e_4$	{123579, 12379, 13456789, 1346789, 2356, 236, 3458, 348, 123579, 12379, 13456789, 1346789, 2356, 236, 3458, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 173	$0, 0, 0, 0, 0, \frac{1}{332}\sqrt{51986}e^{12}, \frac{1}{332}\sqrt{15846}e^{13}, \frac{1}{166}\sqrt{5282}e^{16} + \frac{2}{83}\sqrt{695}e^{23},$ $\frac{15}{332}\sqrt{278}e^{26} + \frac{1}{332}\sqrt{26410}e^{37}$	$(\frac{23}{332}, \frac{23}{166}, \frac{23}{166}, -\frac{58}{83}, \frac{25}{166}, \frac{69}{332}, \frac{69}{332}, \frac{23}{83}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198}e^2 \otimes e_4$	{123579, 12379, 13456789, 1346789, 2356, 236, 3458, 348, 123579, 12379, 13456789, 1346789, 2356, 236, 3458, 348}
942: 173	$0, 0, 0, 0, 0, -\frac{13}{772}\sqrt{434}e^{12}, \frac{13}{772}\sqrt{454}e^{13}, \frac{13}{386}\sqrt{62}e^{16} + \frac{26}{193}\sqrt{15}e^{23},$ $\frac{13}{772}\sqrt{310}e^{26} + \frac{13}{772}\sqrt{330}e^{37}$	$(\frac{13}{772}, \frac{13}{386}, \frac{13}{386}, \frac{195}{386}, -\frac{78}{193}, \frac{39}{772}, \frac{39}{772}, \frac{13}{193}, \frac{65}{772})$ $+ \frac{13}{386}\sqrt{382}e^2 \otimes e_5 + \frac{52}{193}\sqrt{5}e^4 \otimes e_8$	{1289, 14569, 2678, 457, 1289, 14569, 2678, 457}
942: 173	$0, 0, 0, 0, 0, \frac{13}{772}\sqrt{434}e^{12}, \frac{13}{772}\sqrt{454}e^{13}, \frac{13}{386}\sqrt{62}e^{16} + \frac{26}{193}\sqrt{15}e^{23},$ $\frac{13}{772}\sqrt{310}e^{26} + \frac{13}{772}\sqrt{330}e^{37}$	$(\frac{13}{772}, \frac{13}{386}, \frac{13}{386}, \frac{195}{386}, -\frac{78}{193}, \frac{39}{772}, \frac{39}{772}, \frac{13}{193}, \frac{65}{772})$ $+ \frac{13}{386}\sqrt{382}e^2 \otimes e_5 + \frac{52}{193}\sqrt{5}e^4 \otimes e_8$	{1289, 14569, 2678, 457, 1289, 14569, 2678, 457}
942: 173	$0, 0, 0, 0, 0, -\frac{1}{161}\sqrt{330}e^{12}, \frac{2}{161}\sqrt{2310}e^{13}, \frac{18}{161}\sqrt{55}e^{16} + \frac{55}{161}\sqrt{6}e^{23},$ $\frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{1}{161}, -\frac{2}{161}, -\frac{2}{161}, \frac{1}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161}, -\frac{4}{161}, -\frac{5}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_8$	{12345679, 1234679, 135789, 13789, 234, 2345, 3568, 368, 12345679, 1234679, 135789, 13789, 234, 2345, 3568, 368}
942: 173	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{330}e^{12}, \frac{2}{161}\sqrt{2310}e^{13}, \frac{18}{161}\sqrt{55}e^{16} + \frac{55}{161}\sqrt{6}e^{23},$ $\frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{1}{161}, -\frac{2}{161}, -\frac{2}{161}, \frac{1}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161}, -\frac{4}{161}, -\frac{5}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_8$	{12345679, 1234679, 135789, 13789, 234, 2345, 3568, 368, 12345679, 1234679, 135789, 13789, 234, 2345, 3568, 368}
942: 173	$0, 0, 0, 0, 0, -\frac{1}{332}\sqrt{26410}e^{12}, \frac{15}{332}\sqrt{278}e^{13}, \frac{1}{166}\sqrt{5282}e^{16} + \frac{2}{83}\sqrt{695}e^{23},$ $\frac{1}{332}\sqrt{15846}e^{26} + \frac{1}{332}\sqrt{51986}e^{37}$	$(\frac{23}{332}, \frac{23}{166}, \frac{23}{166}, -\frac{58}{83}, \frac{25}{166}, \frac{69}{332}, \frac{69}{332}, \frac{23}{83}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198}e^3 \otimes e_4$	{12456789, 1246789, 14579, 1479, 2458, 248, 456, 46, 12456789, 1246789, 14579, 1479, 2458, 248, 456, 46}
942: 173	$0, 0, 0, 0, 0, \frac{1}{332}\sqrt{26410}e^{12}, \frac{15}{332}\sqrt{278}e^{13}, \frac{1}{166}\sqrt{5282}e^{16} + \frac{2}{83}\sqrt{695}e^{23},$ $\frac{1}{332}\sqrt{15846}e^{26} + \frac{1}{332}\sqrt{51986}e^{37}$	$(\frac{23}{332}, \frac{23}{166}, \frac{23}{166}, -\frac{58}{83}, \frac{25}{166}, \frac{69}{332}, \frac{69}{332}, \frac{23}{83}, \frac{115}{332})$ $+ \frac{1}{166}\sqrt{39198}e^3 \otimes e_4$	{12456789, 1246789, 14579, 1479, 2458, 248, 456, 46, 12456789, 1246789, 14579, 1479, 2458, 248, 456, 46}
942: 175	$0, 0, 0, 0, 0, -\frac{1}{161}\sqrt{330}e^{12}, \frac{2}{161}\sqrt{2310}e^{13}, \frac{18}{161}\sqrt{55}e^{16},$ $\frac{55}{161}\sqrt{6}e^{14} + \frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{8}{23}, \frac{53}{161}, \frac{53}{161}, \frac{106}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161}, -\frac{59}{161}, \frac{50}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_8$	{135789, 13789, 1589, 189, 3568, 368, 5678, 678, 135789, 13789, 1589, 189, 3568, 368, 5678, 678}
942: 175	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{330}e^{12}, \frac{2}{161}\sqrt{2310}e^{13}, \frac{18}{161}\sqrt{55}e^{16},$ $\frac{55}{161}\sqrt{6}e^{14} + \frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{8}{23}, \frac{53}{161}, \frac{53}{161}, \frac{106}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161}, -\frac{59}{161}, \frac{50}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_8$	{135789, 13789, 1589, 189, 3568, 368, 5678, 678, 135789, 13789, 1589, 189, 3568, 368, 5678, 678}
942: 175	$0, 0, 0, 0, 0, -\frac{29}{1705}\sqrt{141}e^{12}, \frac{29}{1705}\sqrt{319}e^{13}, \frac{58}{1705}\sqrt{89}e^{16},$ $\frac{29}{1705}\sqrt{1070}e^{14} + \frac{87}{1705}\sqrt{7}e^{26} + \frac{29}{1705}\sqrt{241}e^{37}$	$(-\frac{29}{155}, \frac{203}{1705}, \frac{203}{1705}, \frac{406}{1705}, \frac{928}{1705}, -\frac{116}{1705}, -\frac{116}{1705}, -\frac{87}{341}, \frac{87}{1705})$ $+ \frac{29}{1705}\sqrt{1554}e^4 \otimes e_8 + \frac{58}{1705}\sqrt{382}e^5 \otimes e_9$	{1234567, 12456, 2349, 2479, 1234567, 12456, 2349, 2479}
942: 175	$0, 0, 0, 0, 0, \frac{29}{1705}\sqrt{141}e^{12}, \frac{29}{1705}\sqrt{319}e^{13}, \frac{58}{1705}\sqrt{89}e^{16},$ $\frac{29}{1705}\sqrt{1070}e^{14} + \frac{87}{1705}\sqrt{7}e^{26} + \frac{29}{1705}\sqrt{241}e^{37}$	$(-\frac{29}{155}, \frac{203}{1705}, \frac{203}{1705}, \frac{406}{1705}, \frac{928}{1705}, -\frac{116}{1705}, -\frac{116}{1705}, -\frac{87}{341}, \frac{87}{1705})$ $+ \frac{29}{1705}\sqrt{1554}e^4 \otimes e_8 + \frac{58}{1705}\sqrt{382}e^5 \otimes e_9$	{1234567, 12456, 2349, 2479, 1234567, 12456, 2349, 2479}
942: 175	$0, 0, 0, 0, 0, -\frac{1}{169}\sqrt{20002}e^{12}, \frac{1}{169}\sqrt{438}e^{13}, \frac{2}{169}\sqrt{146}e^{16},$ $\frac{2}{169}\sqrt{2555}e^{14} + \frac{1}{169}\sqrt{20294}e^{26} + \frac{1}{169}\sqrt{730}e^{37}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, \frac{62}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{25}{169}, \frac{59}{169})$ $+ \frac{2}{169}\sqrt{10366}e^2 \otimes e_5$	{123479, 1249, 13456789, 145689, 2346, 2467, 3458, 4578, 123479, 1249, 13456789, 145689, 2346, 2467, 3458, 4578}
942: 175	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{20002}e^{12}, \frac{1}{169}\sqrt{438}e^{13}, \frac{2}{169}\sqrt{146}e^{16},$ $\frac{2}{169}\sqrt{2555}e^{14} + \frac{1}{169}\sqrt{20294}e^{26} + \frac{1}{169}\sqrt{730}e^{37}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, \frac{62}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{25}{169}, \frac{59}{169})$ $+ \frac{2}{169}\sqrt{10366}e^2 \otimes e_5$	{123479, 1249, 13456789, 145689, 2346, 2467, 3458, 4578, 123479, 1249, 13456789, 145689, 2346, 2467, 3458, 4578}
942: 175	$0, 0, 0, 0, 0, -\frac{44}{445}\sqrt{22}e^{12}, \frac{11}{445}\sqrt{77}e^{13}, \frac{11}{445}\sqrt{173}e^{16},$ $\frac{99}{445}\sqrt{3}e^{14} + \frac{44}{445}\sqrt{10}e^{26} + \frac{11}{445}\sqrt{58}e^{37}$	$(\frac{77}{445}, -\frac{22}{445}, -\frac{22}{445}, -\frac{44}{445}, -\frac{143}{445}, \frac{11}{89}, \frac{11}{89}, \frac{132}{445}, \frac{33}{445})$ $+ \frac{11}{445}\sqrt{377}e^2 \otimes e_5 + \frac{11}{445}\sqrt{422}e^1 \otimes e_4$	{234678, 2468, 3457, 45, 234678, 2468, 3457, 45}
942: 175	$0, 0, 0, 0, 0, \frac{44}{445}\sqrt{22}e^{12}, \frac{11}{445}\sqrt{77}e^{13}, \frac{11}{445}\sqrt{173}e^{16},$ $\frac{99}{445}\sqrt{3}e^{14} + \frac{44}{445}\sqrt{10}e^{26} + \frac{11}{445}\sqrt{58}e^{37}$	$(\frac{77}{445}, -\frac{22}{445}, -\frac{22}{445}, -\frac{44}{445}, -\frac{143}{445}, \frac{11}{89}, \frac{11}{89}, \frac{132}{445}, \frac{33}{445})$ $+ \frac{11}{445}\sqrt{377}e^2 \otimes e_5 + \frac{11}{445}\sqrt{422}e^1 \otimes e_4$	{234678, 2468, 3457, 45, 234678, 2468, 3457, 45}
942: 175	$0, 0, 0, 0, 0, -\frac{13}{277}\sqrt{122}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16},$ $\frac{13}{277}\sqrt{22}e^{14} + \frac{26}{277}\sqrt{21}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{13}{277}\sqrt{218}e^4 \otimes e_8 + \frac{52}{277}\sqrt{17}e^2 \otimes e_5$	{123789, 1289, 2368, 2678, 123789, 1289, 2368, 2678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:175	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{122e^{12}}, \frac{26}{277}\sqrt{13e^{13}}, \frac{26}{277}\sqrt{19e^{16}},$ $\frac{13}{277}\sqrt{22e^{14}} + \frac{26}{277}\sqrt{21e^{26}} + \frac{13}{277}\sqrt{14e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{13}{277}\sqrt{218e^4} \otimes e_8 + \frac{52}{277}\sqrt{17e^2} \otimes e_5$	{123789, 1289, 2368, 2678, 123789, 1289, 2368, 2678}
942:175	$0, 0, 0, 0, 0, -\frac{3}{25}\sqrt{10e^{12}}, \frac{3}{25}\sqrt{10e^{13}}, \frac{2}{25}\sqrt{30e^{16}},$ $\frac{2}{25}\sqrt{35e^{14}} + \frac{1}{25}\sqrt{30e^{26}} + \frac{1}{5}\sqrt{6e^{37}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{2}{25}\sqrt{70e^3} \otimes e_8 + \frac{4}{25}\sqrt{10e^2} \otimes e_5$	{124789, 134569, 2468, 3457, 124789, 134569, 2468, 3457}
942:175	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10e^{12}}, \frac{3}{25}\sqrt{10e^{13}}, \frac{2}{25}\sqrt{30e^{16}},$ $\frac{2}{25}\sqrt{35e^{14}} + \frac{1}{25}\sqrt{30e^{26}} + \frac{1}{5}\sqrt{6e^{37}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{2}{25}\sqrt{70e^3} \otimes e_8 + \frac{4}{25}\sqrt{10e^2} \otimes e_5$	{124789, 134569, 2468, 3457, 124789, 134569, 2468, 3457}
942:175	$0, 0, 0, 0, 0, -\frac{15}{233}\sqrt{55e^{12}}, \frac{25}{233}\sqrt{11e^{13}}, \frac{10}{233}\sqrt{110e^{16}},$ $\frac{10}{233}\sqrt{55e^{14}} + \frac{5}{233}\sqrt{165e^{26}} + \frac{5}{233}\sqrt{385e^{37}}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, -\frac{70}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1230e^1} \otimes e_4 + \frac{5}{233}\sqrt{790e^5} \otimes e_9$	{2345678, 24568, 3457, 45, 2345678, 24568, 3457, 45}
942:175	$0, 0, 0, 0, 0, \frac{15}{233}\sqrt{55e^{12}}, \frac{25}{233}\sqrt{11e^{13}}, \frac{10}{233}\sqrt{110e^{16}},$ $\frac{10}{233}\sqrt{55e^{14}} + \frac{5}{233}\sqrt{165e^{26}} + \frac{5}{233}\sqrt{385e^{37}}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, -\frac{70}{233}, \frac{110}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1230e^1} \otimes e_4 + \frac{5}{233}\sqrt{790e^5} \otimes e_9$	{2345678, 24568, 3457, 45, 2345678, 24568, 3457, 45}
942:175	$0, 0, 0, 0, 0, -\frac{13}{277}\sqrt{14e^{12}}, \frac{26}{277}\sqrt{21e^{13}}, \frac{26}{277}\sqrt{19e^{16}},$ $\frac{13}{277}\sqrt{22e^{14}} + \frac{26}{277}\sqrt{13e^{26}} + \frac{13}{277}\sqrt{122e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{13}{277}\sqrt{218e^4} \otimes e_8 + \frac{52}{277}\sqrt{17e^3} \otimes e_5$	{1389, 15789, 3678, 568, 1389, 15789, 3678, 568}
942:175	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14e^{12}}, \frac{26}{277}\sqrt{21e^{13}}, \frac{26}{277}\sqrt{19e^{16}},$ $\frac{13}{277}\sqrt{22e^{14}} + \frac{26}{277}\sqrt{13e^{26}} + \frac{13}{277}\sqrt{122e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, \frac{130}{277}, -\frac{104}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{13}{277}\sqrt{218e^4} \otimes e_8 + \frac{52}{277}\sqrt{17e^3} \otimes e_5$	{1389, 15789, 3678, 568, 1389, 15789, 3678, 568}
942:175	$0, 0, 0, 0, 0, -\frac{5}{157}\sqrt{197e^{12}}, \frac{1}{157}\sqrt{2955e^{13}}, \frac{2}{157}\sqrt{985e^{16}},$ $\frac{1}{157}\sqrt{27186e^{14}} + \frac{1}{157}\sqrt{2955e^{26}} + \frac{5}{157}\sqrt{197e^{37}}$	$(-\frac{15}{157}, \frac{44}{157}, \frac{44}{157}, \frac{88}{157}, -\frac{109}{157}, \frac{29}{157}, \frac{29}{157}, \frac{14}{157}, \frac{73}{157})$ $+\frac{1}{157}\sqrt{52402e^4} \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567, 12356789, 125689, 13579, 159, 2358, 2578, 356, 567}
942:175	$0, 0, 0, 0, 0, \frac{5}{157}\sqrt{197e^{12}}, \frac{1}{157}\sqrt{2955e^{13}}, \frac{2}{157}\sqrt{985e^{16}},$ $\frac{1}{157}\sqrt{27186e^{14}} + \frac{1}{157}\sqrt{2955e^{26}} + \frac{5}{157}\sqrt{197e^{37}}$	$(-\frac{15}{157}, \frac{44}{157}, \frac{44}{157}, \frac{88}{157}, -\frac{109}{157}, \frac{29}{157}, \frac{29}{157}, \frac{14}{157}, \frac{73}{157})$ $+\frac{1}{157}\sqrt{52402e^4} \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567, 12356789, 125689, 13579, 159, 2358, 2578, 356, 567}
942:175	$0, 0, 0, 0, 0, -\frac{1}{28}\sqrt{238e^{12}}, \frac{1}{28}\sqrt{170e^{13}}, \frac{1}{7}\sqrt{51e^{16}},$ $\frac{1}{14}\sqrt{51e^{14}} + \frac{1}{28}\sqrt{170e^{26}} + \frac{1}{28}\sqrt{238e^{37}}$	$(-\frac{5}{28}, \frac{1}{7}, \frac{1}{7}, \frac{2}{7}, 1, -\frac{1}{28}, -\frac{1}{28}, -\frac{3}{14}, \frac{3}{28})$ $+\frac{1}{14}\sqrt{391e^5} \otimes e_8$	{12378, 128, 13567, 156, 23689, 26789, 359, 579, 12378, 128, 13567, 156, 23689, 26789, 359, 579}
942:175	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{238e^{12}}, \frac{1}{28}\sqrt{170e^{13}}, \frac{1}{7}\sqrt{51e^{16}},$ $\frac{1}{14}\sqrt{51e^{14}} + \frac{1}{28}\sqrt{170e^{26}} + \frac{1}{28}\sqrt{238e^{37}}$	$(-\frac{5}{28}, \frac{1}{7}, \frac{1}{7}, \frac{2}{7}, 1, -\frac{1}{28}, -\frac{1}{28}, -\frac{3}{14}, \frac{3}{28})$ $+\frac{1}{14}\sqrt{391e^5} \otimes e_8$	{12378, 128, 13567, 156, 23689, 26789, 359, 579, 12378, 128, 13567, 156, 23689, 26789, 359, 579}
942:175	$0, 0, 0, 0, 0, -\frac{1}{169}\sqrt{730e^{12}}, \frac{1}{169}\sqrt{20294e^{13}}, \frac{2}{169}\sqrt{146e^{16}},$ $\frac{2}{169}\sqrt{2555e^{14}} + \frac{1}{169}\sqrt{438e^{26}} + \frac{1}{169}\sqrt{20002e^{37}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, \frac{62}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^3} \otimes e_5$	{1234689, 12456789, 1349, 14579, 23478, 2458, 3467, 456, 1234689, 12456789, 1349, 14579, 23478, 2458, 3467, 456}
942:175	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{730e^{12}}, \frac{1}{169}\sqrt{20294e^{13}}, \frac{2}{169}\sqrt{146e^{16}},$ $\frac{2}{169}\sqrt{2555e^{14}} + \frac{1}{169}\sqrt{438e^{26}} + \frac{1}{169}\sqrt{20002e^{37}}$	$(-\frac{3}{169}, \frac{31}{169}, \frac{31}{169}, \frac{62}{169}, -\frac{115}{169}, \frac{28}{169}, \frac{28}{169}, \frac{25}{169}, \frac{59}{169})$ $+\frac{2}{169}\sqrt{10366e^3} \otimes e_5$	{1234689, 12456789, 1349, 14579, 23478, 2458, 3467, 456, 1234689, 12456789, 1349, 14579, 23478, 2458, 3467, 456}
942:177	$0, 0, 0, 0, 0, \frac{50}{763}\sqrt{21e^{12}}, \frac{5}{763}\sqrt{2170e^{13}}, \frac{5}{763}\sqrt{4690e^{16}},$ $\frac{30}{763}\sqrt{91e^{17}} + \frac{5}{763}\sqrt{2226e^{26}} + \frac{5}{763}\sqrt{6118e^{34}}$	$(-\frac{5}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{10}{109}, -\frac{35}{109}, \frac{5}{109}, \frac{20}{109}, 0, \frac{15}{109})$ $+\frac{30}{763}\sqrt{119e^4} \otimes e_5 + \frac{30}{763}\sqrt{154e^3} \otimes e_8$	{1258, 359}
942:177	$0, 0, 0, 0, 0, \frac{16}{517}\sqrt{31e^{12}}, \frac{8}{517}\sqrt{194e^{13}}, \frac{20}{517}\sqrt{38e^{16}},$ $\frac{8}{517}\sqrt{161e^{17}} + \frac{24}{517}\sqrt{11e^{26}} + \frac{20}{517}\sqrt{38e^{34}}$	$(\frac{21}{517}, -\frac{16}{517}, -\frac{53}{517}, \frac{42}{517}, \frac{34}{517}, \frac{5}{517}, -\frac{32}{517}, \frac{26}{517}, -\frac{1}{47})$ $+\frac{4}{517}\sqrt{966e^4} \otimes e_8$	{1258, 128, 235689, 23689}
942:177	$0, 0, 0, 0, 0, \frac{14}{85}\sqrt{7e^{12}}, \frac{7}{85}\sqrt{30e^{13}}, \frac{21}{85}\sqrt{2e^{16}},$ $\frac{14}{85}\sqrt{2e^{17}} + \frac{7}{17}\sqrt{2e^{26}} + \frac{21}{85}\sqrt{2e^{34}}$	$(-\frac{7}{85}, \frac{14}{85}, \frac{7}{17}, -\frac{14}{85}, -\frac{7}{17}, \frac{7}{85}, \frac{28}{85}, 0, \frac{21}{85})$ $+\frac{14}{85}\sqrt{22e^2} \otimes e_5 + \frac{56}{85}e^3 \otimes e_4$	{2367, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:177	$0, 0, 0, 0, 0, \frac{20}{2797}\sqrt{145e^{12}}, \frac{5}{2797}\sqrt{3530e^{13}}, \frac{5}{2797}\sqrt{4510e^{16}},$ $\frac{10}{2797}\sqrt{773e^{17}} + \frac{10}{2797}\sqrt{483e^{26}} + \frac{30}{2797}\sqrt{131e^{34}}$	$(\frac{65}{2797}, -\frac{25}{2797}, -\frac{115}{2797}, \frac{130}{2797}, -\frac{140}{2797}, \frac{40}{2797}, -\frac{50}{2797}, \frac{105}{2797}, \frac{15}{2797})$ $+ \frac{5}{2797}\sqrt{4638e^4} \otimes e_8 + \frac{5}{2797}\sqrt{618e^3} \otimes e_5$	{1258, 23689}
942:177	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{21385e^{12}}, \frac{2}{587}\sqrt{35485e^{13}}, \frac{2}{587}\sqrt{24205e^{16}},$ $\frac{2}{587}\sqrt{38305e^{17}} + \frac{12}{587}\sqrt{235e^{26}} + \frac{20}{587}\sqrt{141e^{34}}$	$(\frac{79}{587}, \frac{43}{587}, \frac{7}{587}, \frac{158}{587}, -\frac{391}{587}, \frac{122}{587}, \frac{86}{587}, \frac{201}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915e^1} \otimes e_5$	{12478, 1467, 23456789, 34579}
942:177	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{19e^{12}}, \frac{1}{35}\sqrt{874e^{13}}, \frac{1}{35}\sqrt{1558e^{16}},$ $\frac{1}{35}\sqrt{741e^{17}} + \frac{1}{35}\sqrt{399e^{26}} + \frac{1}{35}\sqrt{817e^{34}}$	$(-\frac{1}{14}, \frac{2}{35}, \frac{13}{70}, -\frac{1}{7}, 1, -\frac{1}{70}, \frac{4}{35}, -\frac{3}{35}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247e^5} \otimes e_8$	{128, 156, 23689, 359}
942:177	$0, 0, 0, 0, 0, \frac{14}{1741}\sqrt{445e^{12}}, \frac{28}{1741}\sqrt{173e^{13}}, \frac{7}{1741}\sqrt{3406e^{16}},$ $\frac{7}{1741}\sqrt{2342e^{17}} + \frac{154}{1741}\sqrt{3e^{26}} + \frac{42}{1741}\sqrt{93e^{34}}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{7}{1741}\sqrt{174e^5} \otimes e_9 + \frac{7}{1741}\sqrt{3426e^4} \otimes e_8$	{128, 235689}
942:177	$0, 0, 0, 0, 0, \frac{40}{1787}\sqrt{102e^{12}}, \frac{40}{1787}\sqrt{13e^{13}}, \frac{80}{1787}\sqrt{106e^{16}},$ $\frac{120}{1787}\sqrt{10e^{17}} + \frac{40}{1787}\sqrt{39e^{26}} + \frac{40}{1787}\sqrt{643e^{34}}$	$(-\frac{220}{1787}, \frac{140}{1787}, \frac{500}{1787}, -\frac{440}{1787}, \frac{860}{1787}, -\frac{80}{1787}, \frac{280}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+ \frac{120}{1787}\sqrt{103e^3} \otimes e_8 + \frac{120}{1787}\sqrt{73e^5} \otimes e_9$	{1258, 39}
942:177	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{19e^{12}}, \frac{1}{35}\sqrt{874e^{13}}, \frac{1}{35}\sqrt{817e^{16}},$ $\frac{1}{35}\sqrt{741e^{17}} + \frac{1}{35}\sqrt{399e^{26}} + \frac{1}{35}\sqrt{1558e^{34}}$	$(\frac{29}{140}, \frac{2}{35}, -\frac{13}{140}, \frac{29}{70}, -\frac{47}{70}, \frac{37}{140}, \frac{4}{35}, \frac{33}{70}, \frac{9}{28})$ $+ \frac{3}{35}\sqrt{247e^4} \otimes e_5$	{1258, 156, 235689, 359}
942:177	$0, 0, 0, 0, 0, \frac{34}{2129}\sqrt{321e^{12}}, \frac{34}{2129}\sqrt{197e^{13}}, \frac{34}{2129}\sqrt{761e^{16}},$ $\frac{102}{2129}\sqrt{3e^{17}} + \frac{612}{2129}e^{26} + \frac{68}{2129}\sqrt{114e^{34}}$	$(-\frac{119}{2129}, \frac{221}{2129}, \frac{561}{2129}, -\frac{238}{2129}, -\frac{697}{2129}, \frac{102}{2129}, \frac{442}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+ \frac{34}{2129}\sqrt{915e^1} \otimes e_5 + \frac{68}{2129}\sqrt{249e^3} \otimes e_8$	{1346, 245689}
942:177	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{2465e^{12}}, \frac{1}{133}\sqrt{24070e^{13}}, \frac{1}{133}\sqrt{11890e^{16}},$ $\frac{1}{133}\sqrt{2755e^{17}} + \frac{1}{133}\sqrt{6090e^{26}} + \frac{1}{133}\sqrt{11890e^{34}}$	$(-\frac{27}{133}, \frac{32}{133}, \frac{13}{19}, -\frac{54}{133}, \frac{1}{7}, \frac{5}{133}, \frac{64}{133}, -\frac{22}{133}, \frac{37}{133})$ $+ \frac{2}{133}\sqrt{8265e^3} \otimes e_4$	{1245678, 124678, 1457, 147}
942:177	$0, 0, 0, 0, 0, \frac{46}{709}\sqrt{5e^{12}}, \frac{23}{709}\sqrt{214e^{13}}, \frac{23}{709}\sqrt{190e^{16}},$ $\frac{46}{709}e^{17} + \frac{23}{709}\sqrt{6e^{26}} + \frac{69}{709}\sqrt{2e^{34}}$	$(-\frac{115}{709}, \frac{92}{709}, \frac{299}{709}, -\frac{230}{709}, \frac{391}{709}, -\frac{23}{709}, \frac{184}{709}, -\frac{138}{709}, \frac{69}{709})$ $+ \frac{46}{709}\sqrt{159e^3} \otimes e_4 + \frac{92}{709}\sqrt{39e^5} \otimes e_8$	{245, 468}
942:177	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{1003e^{12}}, \frac{1}{71}\sqrt{1298e^{13}}, \frac{1}{71}\sqrt{590e^{16}},$ $\frac{2}{71}\sqrt{590e^{17}} + \frac{3}{71}\sqrt{354e^{26}} + \frac{1}{71}\sqrt{590e^{34}}$	$(\frac{3}{71}, \frac{10}{71}, \frac{17}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{13}{71}, \frac{20}{71}, \frac{16}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770e^2} \otimes e_5$	{123789, 135679, 2678, 57}
942:177	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{1606e^{12}}, \frac{154}{1741}\sqrt{5e^{13}}, \frac{7}{1741}\sqrt{3058e^{16}},$ $\frac{7}{1741}\sqrt{1994e^{17}} + \frac{21}{1741}\sqrt{142e^{26}} + \frac{70}{1741}\sqrt{30e^{34}}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{63}{1741}\sqrt{38e^4} \otimes e_8 + \frac{7}{1741}\sqrt{174e^1} \otimes e_5$	{128, 235689}
942:177	$0, 0, 0, 0, 0, \frac{1}{55}\sqrt{53e^{12}}, \frac{2}{55}\sqrt{19e^{13}}, \frac{1}{55}\sqrt{91e^{16}},$ $\frac{1}{55}\sqrt{65e^{17}} + \frac{1}{55}\sqrt{33e^{26}} + \frac{1}{55}\sqrt{91e^{34}}$	$(\frac{2}{55}, -\frac{1}{55}, -\frac{4}{55}, \frac{4}{55}, -\frac{2}{55}, \frac{1}{55}, -\frac{2}{55}, \frac{5}{55}, 0)$ $+ \frac{1}{55}\sqrt{11e^2} \otimes e_5 + \frac{2}{55}\sqrt{23e^4} \otimes e_8$	{128, 23689}
942:177	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{1254e^{12}}, \frac{19}{287}\sqrt{22e^{13}}, \frac{2}{287}\sqrt{15466e^{16}},$ $\frac{9}{287}\sqrt{418e^{17}} + \frac{19}{287}\sqrt{66e^{26}} + \frac{2}{287}\sqrt{15466e^{34}}$	$(-\frac{52}{287}, \frac{53}{287}, \frac{158}{287}, -\frac{104}{287}, \frac{44}{287}, \frac{1}{287}, \frac{106}{287}, -\frac{51}{287}, \frac{54}{287})$ $+ \frac{9}{287}\sqrt{1254e^3} \otimes e_8$	{1258, 128, 359, 39}
942:177	$0, 0, 0, 0, 0, \frac{204}{575}e^{12}, \frac{34}{575}\sqrt{47e^{13}}, \frac{34}{575}\sqrt{83e^{16}},$ $\frac{34}{575}\sqrt{159e^{17}} + \frac{34}{575}\sqrt{141e^{26}} + \frac{68}{575}\sqrt{19e^{34}}$	$(\frac{11}{575}, -\frac{7}{575}, -\frac{1}{23}, \frac{22}{575}, 1, \frac{4}{575}, -\frac{14}{575}, \frac{3}{115}, -\frac{3}{575})$ $+ \frac{102}{575}\sqrt{53e^5} \otimes e_9$	{125678, 157, 23789, 3679}
942:177	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{114e^{12}}, \frac{3}{61}\sqrt{42e^{13}}, \frac{3}{61}\sqrt{114e^{16}},$ $\frac{18}{61}\sqrt{3e^{17}} + \frac{6}{61}\sqrt{6e^{26}} + \frac{3}{61}\sqrt{114e^{34}}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, -\frac{18}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{15}{61}\sqrt{6e^2} \otimes e_5 + \frac{3}{61}\sqrt{174e^3} \otimes e_8$	{135679, 2678}
942:177	$0, 0, 0, 0, 0, \frac{188}{4225}\sqrt{101e^{12}}, \frac{47}{4225}\sqrt{3082e^{13}}, \frac{47}{4225}\sqrt{2198e^{16}},$ $\frac{47}{4225}\sqrt{2554e^{17}} + \frac{141}{4225}\sqrt{194e^{26}} + \frac{47}{4225}\sqrt{894e^{34}}$	$(-\frac{517}{4225}, \frac{329}{4225}, \frac{47}{169}, -\frac{1034}{4225}, \frac{94}{169}, -\frac{188}{4225}, \frac{658}{4225}, -\frac{141}{845}, \frac{141}{4225})$ $+ \frac{47}{169}\sqrt{6e^3} \otimes e_4 + \frac{94}{4225}\sqrt{978e^5} \otimes e_9$	{1245678, 1457}
942:177	$0, 0, 0, 0, 0, \frac{82}{4561}\sqrt{122e^{12}}, \frac{41}{4561}\sqrt{4090e^{13}}, \frac{41}{4561}\sqrt{566e^{16}},$ $\frac{41}{4561}\sqrt{2770e^{17}} + \frac{123}{4561}\sqrt{26e^{26}} + \frac{41}{4561}\sqrt{2094e^{34}}$	$(-\frac{205}{4561}, \frac{533}{4561}, \frac{1271}{4561}, -\frac{410}{4561}, -\frac{1886}{4561}, \frac{328}{4561}, \frac{1066}{4561}, \frac{123}{4561}, \frac{861}{4561})$ $+ \frac{369}{4561}\sqrt{46e^3} \otimes e_4 + \frac{82}{4561}\sqrt{1146e^1} \otimes e_5$	{124678, 147}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:178	$0, 0, 0, 0, 0, \frac{29}{1669}\sqrt{291}e^{12}, \frac{29}{1669}\sqrt{203}e^{13}, \frac{29}{1669}\sqrt{259}e^{26},$ $\frac{29}{1669}\sqrt{35}e^{16} + \frac{29}{1669}\sqrt{1023}e^{24} + \frac{29}{1669}\sqrt{266}e^{37}$	$(\frac{203}{1669}, -\frac{319}{1669}, -\frac{58}{1669}, \frac{406}{1669}, \frac{928}{1669}, -\frac{116}{1669}, \frac{145}{1669}, -\frac{435}{1669}, \frac{87}{1669})$ $+ \frac{29}{1669}\sqrt{1482}e^4 \otimes e_8 + \frac{87}{1669}\sqrt{167}e^5 \otimes e_9$	{1349, 1479}
942:178	$0, 0, 0, 0, 0, \frac{25}{2101}\sqrt{330}e^{12}, \frac{125}{2101}\sqrt{11}e^{13}, \frac{25}{2101}\sqrt{1285}e^{26},$ $\frac{25}{2101}\sqrt{766}e^{16} + \frac{25}{2101}\sqrt{1113}e^{24} + \frac{25}{2101}\sqrt{14}e^{37}$	$(\frac{25}{191}, -\frac{175}{2101}, \frac{50}{2101}, \frac{50}{191}, -\frac{800}{2101}, \frac{100}{2101}, \frac{325}{2101}, -\frac{75}{2101}, \frac{375}{2101})$ $+ \frac{100}{2101}\sqrt{114}e^4 \otimes e_8 + \frac{75}{2101}\sqrt{221}e^2 \otimes e_5$	{23467, 246}
942:178	$0, 0, 0, 0, 0, \frac{5}{61}\sqrt{22}e^{12}, \frac{5}{61}\sqrt{22}e^{13}, \frac{30}{61}e^{26},$ $\frac{10}{61}\sqrt{5}e^{16} + \frac{10}{61}\sqrt{5}e^{24} + \frac{30}{61}e^{37}$	$(-\frac{5}{61}, \frac{15}{61}, \frac{5}{61}, -\frac{10}{61}, -\frac{20}{61}, \frac{10}{61}, \frac{0}{61}, \frac{25}{61}, \frac{5}{61})$ $+ \frac{15}{61}\sqrt{6}e^2 \otimes e_4 + \frac{15}{61}\sqrt{6}e^3 \otimes e_5$	{2367, 256}
942:178	$0, 0, 0, 0, 0, \frac{2}{289}\sqrt{15142}e^{12}, \frac{4}{289}\sqrt{791}e^{13}, \frac{6}{289}\sqrt{1582}e^{26},$ $\frac{4}{289}\sqrt{113}e^{16} + \frac{2}{289}\sqrt{9605}e^{24} + \frac{6}{289}\sqrt{565}e^{37}$	$(-\frac{56}{289}, \frac{114}{289}, \frac{29}{289}, -\frac{112}{289}, \frac{46}{289}, \frac{58}{289}, -\frac{27}{289}, \frac{172}{289}, \frac{2}{289})$ $+ \frac{18}{289}\sqrt{339}e^2 \otimes e_4$	{123578, 12378, 1258, 128}
942:178	$0, 0, 0, 0, 0, \frac{26}{1049}\sqrt{318}e^{12}, \frac{52}{1049}\sqrt{13}e^{13}, \frac{26}{1049}\sqrt{454}e^{26},$ $\frac{208}{1049}e^{16} + \frac{26}{1049}\sqrt{249}e^{24} + \frac{26}{1049}\sqrt{137}e^{37}$	$(-\frac{104}{1049}, \frac{130}{1049}, \frac{13}{1049}, -\frac{208}{1049}, \frac{494}{1049}, \frac{26}{1049}, -\frac{91}{1049}, \frac{156}{1049}, -\frac{78}{1049})$ $+ \frac{156}{1049}\sqrt{11}e^5 \otimes e_8 + \frac{26}{1049}\sqrt{555}e^2 \otimes e_4$	{12378, 128}
942:178	$0, 0, 0, 0, 0, \frac{26}{563}\sqrt{87}e^{12}, \frac{26}{563}\sqrt{65}e^{13}, \frac{208}{563}e^{26},$ $\frac{52}{563}\sqrt{17}e^{16} + \frac{52}{563}\sqrt{6}e^{24} + \frac{26}{563}\sqrt{7}e^{37}$	$(\frac{130}{563}, \frac{104}{563}, \frac{13}{563}, \frac{260}{563}, -\frac{208}{563}, \frac{26}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+ \frac{26}{563}\sqrt{213}e^4 \otimes e_8 + \frac{78}{563}\sqrt{31}e^1 \otimes e_5$	{1368, 1678}
942:178	$0, 0, 0, 0, 0, \frac{1}{431}\sqrt{6230}e^{12}, \frac{1}{431}\sqrt{38626}e^{13}, \frac{15}{431}\sqrt{178}e^{26},$ $\frac{1}{431}\sqrt{32930}e^{16} + \frac{1}{431}\sqrt{10502}e^{24} + \frac{15}{431}\sqrt{178}e^{37}$	$(\frac{56}{431}, -\frac{78}{431}, -\frac{11}{431}, \frac{112}{431}, \frac{53}{431}, -\frac{22}{431}, \frac{45}{431}, -\frac{100}{431}, \frac{34}{431})$ $+ \frac{6}{431}\sqrt{1869}e^3 \otimes e_8$	{1234569, 123469, 4568, 468}
942:178	$0, 0, 0, 0, 0, \frac{4}{109}\sqrt{133}e^{12}, \frac{4}{109}\sqrt{133}e^{13}, \frac{2}{109}\sqrt{2926}e^{26},$ $\frac{1}{109}\sqrt{3059}e^{16} + \frac{4}{109}\sqrt{3059}e^{24} + \frac{2}{109}\sqrt{3857}e^{37}$	$(\frac{16}{109}, -\frac{20}{109}, -\frac{2}{109}, \frac{32}{109}, 1, -\frac{4}{109}, \frac{14}{109}, -\frac{24}{109}, \frac{12}{109})$ $+ \frac{1}{109}\sqrt{23541}e^5 \otimes e_8$	{13689, 16789, 23567, 256}
942:178	$0, 0, 0, 0, 0, \frac{17}{685}\sqrt{174}e^{12}, \frac{68}{685}\sqrt{29}e^{13}, \frac{17}{685}\sqrt{286}e^{26},$ $\frac{17}{685}\sqrt{382}e^{16} + \frac{34}{685}\sqrt{51}e^{24} + \frac{221}{685}\sqrt{2}e^{37}$	$(\frac{119}{685}, \frac{17}{685}, \frac{17}{685}, \frac{238}{685}, -\frac{272}{685}, \frac{34}{685}, \frac{136}{685}, -\frac{51}{685}, \frac{153}{685})$ $+ \frac{17}{685}\sqrt{534}e^4 \otimes e_8 + \frac{17}{685}\sqrt{690}e^3 \otimes e_5$	{3678, 568}
942:178	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{70}e^{12}, \frac{3}{133}\sqrt{386}e^{13}, \frac{3}{133}\sqrt{390}e^{26},$ $\frac{3}{133}\sqrt{330}e^{16} + \frac{3}{133}\sqrt{82}e^{24} + \frac{3}{133}\sqrt{390}e^{37}$	$(\frac{18}{133}, -\frac{24}{133}, -\frac{3}{133}, \frac{36}{133}, \frac{9}{133}, -\frac{6}{133}, \frac{15}{133}, -\frac{30}{133}, \frac{12}{133})$ $+ \frac{6}{133}\sqrt{10}e^4 \otimes e_5 + \frac{6}{133}\sqrt{166}e^3 \otimes e_8$	{123469, 468}
942:178	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{58646}e^{12}, \frac{1}{407}\sqrt{54670}e^{13}, \frac{3}{407}\sqrt{2982}e^{26},$ $\frac{1}{407}\sqrt{40754}e^{16} + \frac{1}{407}\sqrt{185878}e^{24} + \frac{3}{407}\sqrt{2982}e^{37}$	$(\frac{10}{37}, -\frac{36}{407}, \frac{1}{11}, \frac{20}{37}, -\frac{277}{407}, \frac{2}{407}, \frac{147}{407}, \frac{38}{407}, \frac{184}{407})$ $+ \frac{6}{407}\sqrt{9443}e^4 \otimes e_5$	{1358, 1578, 23579, 259}
942:178	$0, 0, 0, 0, 0, \frac{2}{137}\sqrt{6}e^{12}, \frac{4}{137}\sqrt{177}e^{13}, \frac{6}{137}\sqrt{78}e^{26},$ $\frac{2}{137}\sqrt{474}e^{16} + \frac{2}{137}\sqrt{246}e^{24} + \frac{6}{137}\sqrt{78}e^{37}$	$(\frac{18}{137}, -\frac{22}{137}, -\frac{2}{137}, \frac{36}{137}, -\frac{6}{137}, -\frac{4}{137}, \frac{16}{137}, -\frac{26}{137}, \frac{14}{137})$ $+ \frac{2}{137}\sqrt{258}e^1 \otimes e_5 + \frac{40}{137}\sqrt{3}e^3 \otimes e_8$	{123469, 4568}
942:178	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{10}e^{12}, \frac{1}{65}\sqrt{235}e^{13}, \frac{1}{65}\sqrt{305}e^{26},$ $\frac{1}{65}\sqrt{230}e^{16} + \frac{1}{65}\sqrt{35}e^{24} + \frac{1}{13}\sqrt{10}e^{37}$	$(\frac{1}{13}, -\frac{1}{13}, 0, \frac{2}{13}, -\frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{65}\sqrt{165}e^2 \otimes e_5 + \frac{2}{65}\sqrt{105}e^3 \otimes e_8$	{156789, 2367}
942:178	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1526}e^{12}, \frac{1}{215}\sqrt{1526}e^{13}, \frac{1}{215}\sqrt{9374}e^{26},$ $\frac{1}{215}\sqrt{22018}e^{16} + \frac{1}{215}\sqrt{22018}e^{24} + \frac{1}{215}\sqrt{4142}e^{37}$	$(-\frac{7}{215}, \frac{11}{215}, \frac{2}{215}, -\frac{14}{215}, 1, \frac{4}{215}, -\frac{1}{43}, \frac{3}{43}, -\frac{3}{215})$ $+ \frac{1}{215}\sqrt{77826}e^5 \otimes e_9$	{12345678, 124568, 3469, 4679}
942:178	$0, 0, 0, 0, 0, \frac{7}{5485}\sqrt{1090}e^{12}, \frac{7}{5485}\sqrt{3286}e^{13}, \frac{126}{5485}\sqrt{17}e^{26},$ $\frac{7}{5485}\sqrt{3326}e^{16} + \frac{14}{5485}\sqrt{557}e^{24} + \frac{42}{5485}\sqrt{122}e^{37}$	$(-\frac{7}{1097}, -\frac{21}{5485}, -\frac{28}{5485}, -\frac{14}{1097}, \frac{98}{1097}, -\frac{56}{5485}, -\frac{63}{5485}, -\frac{77}{5485}, -\frac{91}{5485})$ $+ \frac{42}{5485}\sqrt{93}e^2 \otimes e_4 + \frac{63}{5485}\sqrt{82}e^3 \otimes e_8$	{23567, 2367}
942:178	$0, 0, 0, 0, 0, \frac{242}{845}\sqrt{3}e^{12}, \frac{22}{845}\sqrt{22}e^{13}, \frac{22}{845}\sqrt{181}e^{26},$ $\frac{22}{845}\sqrt{155}e^{16} + \frac{22}{845}\sqrt{222}e^{24} + \frac{22}{169}\sqrt{2}e^{37}$	$(-\frac{44}{845}, \frac{154}{845}, \frac{11}{169}, -\frac{88}{845}, -\frac{22}{65}, \frac{22}{169}, \frac{11}{845}, \frac{264}{845}, \frac{66}{845})$ $+ \frac{22}{845}\sqrt{393}e^2 \otimes e_4 + \frac{66}{845}\sqrt{41}e^1 \otimes e_5$	{134678, 1468}
942:178	$0, 0, 0, 0, 0, \frac{56}{285}\sqrt{6}e^{12}, \frac{14}{285}\sqrt{141}e^{13}, \frac{14}{285}\sqrt{249}e^{26},$ $\frac{14}{285}\sqrt{183}e^{16} + \frac{14}{285}\sqrt{291}e^{24} + \frac{14}{285}\sqrt{3}e^{37}$	$(\frac{94}{285}, -\frac{20}{57}, -\frac{1}{95}, \frac{188}{285}, \frac{16}{95}, -\frac{2}{95}, \frac{91}{285}, -\frac{106}{285}, \frac{88}{285})$ $+ \frac{14}{95}\sqrt{79}e^4 \otimes e_8$	{35678, 3678, 568, 68}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:178	$0, 0, 0, 0, 0, \frac{26}{901}\sqrt{35}e^{12}, \frac{364}{901}e^{13}, \frac{13}{901}\sqrt{790}e^{26},$ $\frac{26}{901}\sqrt{155}e^{16} + \frac{13}{901}\sqrt{158}e^{24} + \frac{26}{901}\sqrt{215}e^{37}$	$(\frac{91}{901}, -\frac{143}{901}, -\frac{26}{901}, \frac{182}{901}, \frac{208}{901}, -\frac{52}{901}, \frac{65}{901}, -\frac{195}{901}, \frac{39}{901})$ $+ \frac{13}{901}\sqrt{210}e^5 \otimes e_9 + \frac{39}{901}\sqrt{154}e^3 \otimes e_8$	{123469, 4568}
942:178	$0, 0, 0, 0, 0, \frac{25}{1129}\sqrt{597}e^{12}, \frac{125}{1129}\sqrt{7}e^{13}, \frac{25}{1129}\sqrt{469}e^{26},$ $\frac{25}{1129}\sqrt{209}e^{16} + \frac{25}{1129}\sqrt{177}e^{24} + \frac{50}{1129}\sqrt{89}e^{37}$	$(-\frac{175}{1129}, \frac{275}{1129}, \frac{50}{1129}, -\frac{350}{1129}, \frac{550}{1129}, \frac{100}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+ \frac{25}{1129}\sqrt{1158}e^2 \otimes e_4 + \frac{75}{1129}\sqrt{91}e^5 \otimes e_9$	{1345678, 14568}
942:178	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{682}e^{12}, \frac{1}{37}\sqrt{11}e^{13}, \frac{1}{37}\sqrt{781}e^{26},$ $\frac{1}{37}\sqrt{286}e^{16} + \frac{1}{37}\sqrt{385}e^{24} + \frac{1}{37}\sqrt{110}e^{37}$	$(\frac{1}{111}, \frac{9}{37}, \frac{14}{111}, \frac{2}{37}, \frac{24}{37}, \frac{28}{111}, \frac{5}{37}, \frac{55}{111}, \frac{29}{111})$ $+ \frac{1}{37}\sqrt{2013}e^2 \otimes e_5$	{1345689, 1456789, 23467, 246}
942:178	$0, 0, 0, 0, 0, \frac{4}{289}\sqrt{791}e^{12}, \frac{2}{289}\sqrt{15142}e^{13}, \frac{6}{289}\sqrt{565}e^{26},$ $\frac{2}{289}\sqrt{9605}e^{16} + \frac{4}{289}\sqrt{113}e^{24} + \frac{6}{289}\sqrt{1582}e^{37}$	$(\frac{25}{289}, \frac{33}{289}, \frac{29}{289}, \frac{50}{289}, -\frac{197}{289}, \frac{58}{289}, \frac{54}{289}, \frac{91}{289}, \frac{83}{289})$ $+ \frac{18}{289}\sqrt{339}e^3 \otimes e_5$	{123469, 1245679, 34678, 4568}
942:178	$0, 0, 0, 0, 0, \frac{2}{217}\sqrt{7314}e^{12}, \frac{4}{217}\sqrt{437}e^{13}, \frac{2}{217}\sqrt{138}e^{26},$ $\frac{46}{217}\sqrt{14}e^{16} + \frac{18}{217}\sqrt{46}e^{24} + \frac{2}{217}\sqrt{138}e^{37}$	$(\frac{38}{217}, -\frac{2}{217}, \frac{18}{217}, \frac{76}{217}, -\frac{146}{217}, \frac{36}{217}, \frac{8}{31}, \frac{34}{217}, \frac{74}{217})$ $+ \frac{22}{217}\sqrt{138}e^1 \otimes e_5$	{1346, 1467, 23456789, 245689}
942:180	$0, 0, 0, 0, 0, \frac{5}{109}\sqrt{82}e^{12}, \frac{10}{763}\sqrt{987}e^{13}, \frac{10}{763}\sqrt{357}e^{16} + \frac{5}{763}\sqrt{6118}e^{24},$ $\frac{5}{109}\sqrt{58}e^{17} + \frac{5}{763}\sqrt{2226}e^{26}$	$(-\frac{5}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{10}{109}, -\frac{35}{109}, \frac{5}{109}, \frac{20}{109}, 0, \frac{15}{109})$ $+ \frac{30}{763}\sqrt{119}e^4 \otimes e_5 + \frac{30}{763}\sqrt{154}e^3 \otimes e_8$	{1359, 258}
942:180	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{13287}e^{12}, \frac{4}{533}\sqrt{8041}e^{13},$ $\frac{4}{533}\sqrt{13502}e^{16} + \frac{4}{533}\sqrt{7826}e^{24}, \frac{20}{533}\sqrt{43}e^{17} + \frac{4}{533}\sqrt{645}e^{26}$	$(\frac{122}{533}, -\frac{50}{533}, -\frac{222}{533}, \frac{244}{533}, \frac{62}{533}, \frac{72}{533}, -\frac{100}{533}, \frac{194}{533}, \frac{22}{533})$ $+ \frac{4}{533}\sqrt{20253}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:180	$0, 0, 0, 0, 0, \frac{7}{242}\sqrt{646}e^{12}, \frac{7}{242}\sqrt{290}e^{13}, \frac{7}{242}\sqrt{298}e^{16} + \frac{7}{242}\sqrt{390}e^{24},$ $\frac{7}{121}\sqrt{110}e^{17} + \frac{105}{242}\sqrt{2}e^{26}$	$(-\frac{35}{242}, \frac{14}{121}, \frac{91}{242}, -\frac{35}{121}, \frac{28}{121}, -\frac{7}{242}, \frac{28}{121}, -\frac{21}{121}, \frac{21}{242})$ $+ \frac{35}{242}\sqrt{6}e^5 \otimes e_8 + \frac{7}{121}\sqrt{186}e^2 \otimes e_4$	{1345679, 457}
942:180	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{690}e^{12}, \frac{3}{166}\sqrt{510}e^{13}, \frac{9}{166}\sqrt{110}e^{16} + \frac{3}{166}\sqrt{210}e^{24},$ $\frac{9}{83}\sqrt{2}e^{17} + \frac{3}{166}\sqrt{186}e^{26}$	$(\frac{15}{166}, -\frac{6}{83}, -\frac{39}{166}, \frac{15}{83}, \frac{36}{83}, \frac{3}{166}, -\frac{12}{83}, \frac{9}{83}, -\frac{9}{166})$ $+ \frac{3}{166}\sqrt{714}e^5 \otimes e_8 + \frac{3}{83}\sqrt{282}e^1 \otimes e_3$	{1248, 1456, 234689, 3459}
942:180	$0, 0, 0, 0, 0, \frac{8}{571}\sqrt{3230}e^{12}, \frac{4}{571}\sqrt{23902}e^{13},$ $\frac{2}{571}\sqrt{50711}e^{16} + \frac{2}{571}\sqrt{45866}e^{24}, \frac{2}{571}\sqrt{45866}e^{17} + \frac{6}{571}\sqrt{323}e^{26}$	$(-\frac{21}{571}, \frac{127}{571}, \frac{275}{571}, -\frac{42}{571}, -\frac{371}{571}, \frac{106}{571}, \frac{254}{571}, \frac{85}{571}, \frac{233}{571})$ $+ \frac{2}{571}\sqrt{152133}e^3 \otimes e_5$	{123689, 139, 258, 56}
942:180	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{690}e^{12}, \frac{3}{166}\sqrt{510}e^{13}, \frac{9}{166}\sqrt{110}e^{16} + \frac{3}{166}\sqrt{210}e^{24},$ $\frac{9}{83}\sqrt{2}e^{17} + \frac{3}{166}\sqrt{186}e^{26}$	$(\frac{15}{166}, -\frac{6}{83}, -\frac{39}{166}, \frac{15}{83}, \frac{36}{83}, \frac{3}{166}, -\frac{12}{83}, \frac{9}{83}, -\frac{9}{166})$ $+ \frac{3}{166}\sqrt{714}e^5 \otimes e_8 - \frac{3}{83}\sqrt{282}e^1 \otimes e_3$	{1248, 1456, 234689, 3459}
942:180	$0, 0, 0, 0, 0, \frac{13}{781}\sqrt{710}e^{12}, \frac{26}{71}e^{13}, \frac{26}{781}\sqrt{149}e^{16} + \frac{39}{781}\sqrt{106}e^{24},$ $\frac{13}{781}\sqrt{838}e^{17} + \frac{13}{781}\sqrt{6}e^{26}$	$(\frac{65}{781}, -\frac{52}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{247}{781}, \frac{13}{781}, -\frac{104}{781}, \frac{78}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{267}e^4 \otimes e_9 + \frac{26}{781}\sqrt{87}e^5 \otimes e_8$	{23789, 35679}
942:180	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{35485}e^{12}, \frac{2}{587}\sqrt{21385}e^{13},$ $\frac{2}{587}\sqrt{38305}e^{16} + \frac{20}{587}\sqrt{141}e^{24}, \frac{2}{587}\sqrt{24205}e^{17} + \frac{12}{587}\sqrt{235}e^{26}$	$(\frac{79}{587}, \frac{43}{587}, \frac{7}{587}, \frac{158}{587}, -\frac{391}{587}, \frac{122}{587}, \frac{86}{587}, \frac{201}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^1 \otimes e_5$	{12478, 1467, 23456789, 34579}
942:180	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{13287}e^{12}, \frac{4}{533}\sqrt{8041}e^{13},$ $\frac{4}{533}\sqrt{13502}e^{16} + \frac{4}{533}\sqrt{7826}e^{24}, \frac{20}{533}\sqrt{43}e^{17} + \frac{4}{533}\sqrt{645}e^{26}$	$(\frac{122}{533}, -\frac{50}{533}, -\frac{222}{533}, \frac{244}{533}, \frac{62}{533}, \frac{72}{533}, -\frac{100}{533}, \frac{194}{533}, \frac{22}{533})$ $- \frac{4}{533}\sqrt{20253}e^1 \otimes e_3$	{12458, 1248, 1456, 146, 2345689, 234689, 3459, 349}
942:180	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{451}e^{12}, \frac{2}{101}\sqrt{770}e^{13}, \frac{2}{101}\sqrt{682}e^{16} + \frac{22}{101}\sqrt{10}e^{24},$ $\frac{22}{101}\sqrt{10}e^{17} + \frac{4}{101}\sqrt{330}e^{26}$	$(-\frac{15}{101}, \frac{14}{101}, \frac{43}{101}, -\frac{30}{101}, \frac{8}{101}, -\frac{1}{101}, \frac{28}{101}, -\frac{16}{101}, \frac{13}{101})$ $+ \frac{2}{101}\sqrt{2046}e^2 \otimes e_4$	{1345679, 134679, 457, 47}
942:180	$0, 0, 0, 0, 0, \frac{50}{593}\sqrt{37}e^{12}, \frac{20}{593}\sqrt{65}e^{13}, \frac{20}{593}\sqrt{115}e^{16} + \frac{100}{593}\sqrt{6}e^{24},$ $\frac{5}{593}\sqrt{1730}e^{17} + \frac{15}{593}\sqrt{230}e^{26}$	$(-\frac{35}{593}, \frac{55}{593}, \frac{145}{593}, -\frac{70}{593}, -\frac{160}{593}, \frac{20}{593}, \frac{110}{593}, -\frac{15}{593}, \frac{75}{593})$ $+ \frac{15}{593}\sqrt{390}e^2 \otimes e_4 + \frac{15}{593}\sqrt{2010}e^1 \otimes e_5$	{134679, 457}
942:180	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{6794}e^{12}, \frac{1}{139}\sqrt{5074}e^{13}, \frac{2}{139}\sqrt{1763}e^{16} + \frac{1}{139}\sqrt{8342}e^{24},$ $\frac{1}{139}\sqrt{8342}e^{17} + \frac{3}{139}\sqrt{86}e^{26}$	$(\frac{21}{139}, -\frac{11}{139}, -\frac{43}{139}, \frac{42}{139}, \frac{16}{139}, \frac{10}{139}, -\frac{22}{139}, \frac{31}{139}, -\frac{1}{139})$ $+ \frac{1}{139}\sqrt{10578}e^4 \otimes e_9$	{235789, 23789, 35679, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:180	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{133}e^{12}, \frac{1}{35}\sqrt{57}e^{13}, \frac{1}{35}\sqrt{741}e^{16} + \frac{1}{35}\sqrt{817}e^{24},$ $\frac{2}{35}\sqrt{19}e^{17} + \frac{1}{35}\sqrt{399}e^{26}$	$(-\frac{1}{14}, \frac{2}{35}, \frac{13}{70}, -\frac{1}{7}, 1, -\frac{1}{70}, \frac{4}{35}, -\frac{3}{35}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^5 \otimes e_8$	{124569, 1489, 2345, 3468}
942:180	$0, 0, 0, 0, 0, \frac{11}{733}\sqrt{386}e^{12}, \frac{22}{733}\sqrt{94}e^{13}, \frac{44}{733}\sqrt{38}e^{16} + \frac{33}{733}\sqrt{82}e^{24},$ $\frac{11}{733}\sqrt{598}e^{17} + \frac{11}{733}\sqrt{246}e^{26}$	$(\frac{77}{733}, -\frac{22}{733}, -\frac{121}{733}, \frac{154}{733}, -\frac{143}{733}, \frac{55}{733}, -\frac{44}{733}, \frac{132}{733}, \frac{33}{733})$ $+ \frac{22}{733}\sqrt{105}e^2 \otimes e_5 + \frac{44}{733}\sqrt{57}e^4 \otimes e_9$	{23789, 35679}
942:180	$0, 0, 0, 0, 0, \frac{40}{1787}\sqrt{219}e^{16} + \frac{40}{1787}\sqrt{643}e^{24}, \frac{40}{1787}\sqrt{541}e^{12}, \frac{120}{1787}\sqrt{70}e^{13},$ $\frac{40}{1787}\sqrt{553}e^{17} + \frac{40}{1787}\sqrt{39}e^{26}$	$(-\frac{220}{1787}, \frac{140}{1787}, \frac{500}{1787}, -\frac{440}{1787}, \frac{860}{1787}, -\frac{80}{1787}, \frac{280}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+ \frac{120}{1787}\sqrt{103}e^3 \otimes e_8 + \frac{120}{1787}\sqrt{73}e^5 \otimes e_9$	{139, 258}
942:180	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{874}e^{12}, \frac{6}{35}\sqrt{19}e^{13}, \frac{1}{35}\sqrt{741}e^{16} + \frac{1}{35}\sqrt{1558}e^{24},$ $\frac{1}{35}\sqrt{817}e^{17} + \frac{1}{35}\sqrt{399}e^{26}$	$(\frac{29}{140}, \frac{2}{35}, -\frac{13}{140}, \frac{29}{70}, -\frac{47}{70}, \frac{37}{140}, \frac{4}{35}, \frac{33}{70}, \frac{9}{28})$ $+ \frac{3}{35}\sqrt{247}e^4 \otimes e_5$	{1235689, 1359, 258, 56}
942:180	$0, 0, 0, 0, 0, \frac{102}{2129}\sqrt{15}e^{12}, \frac{34}{2129}\sqrt{653}e^{13},$ $\frac{34}{2129}\sqrt{305}e^{16} + \frac{68}{2129}\sqrt{114}e^{24}, \frac{34}{2129}\sqrt{429}e^{17} + \frac{612}{2129}e^{26}$	$(-\frac{119}{2129}, \frac{221}{2129}, \frac{561}{2129}, -\frac{238}{2129}, -\frac{697}{2129}, \frac{102}{2129}, \frac{442}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+ \frac{34}{2129}\sqrt{915}e^1 \otimes e_5 + \frac{68}{2129}\sqrt{249}e^3 \otimes e_8$	{123469, 4568}
942:180	$0, 0, 0, 0, 0, \frac{29}{2749}\sqrt{2854}e^{12}, \frac{58}{2749}\sqrt{266}e^{13},$ $\frac{58}{2749}\sqrt{181}e^{16} + \frac{174}{2749}\sqrt{55}e^{24}, \frac{29}{2749}\sqrt{1490}e^{17} + \frac{58}{2749}\sqrt{687}e^{26}$	$(-\frac{319}{2749}, \frac{203}{2749}, \frac{725}{2749}, -\frac{638}{2749}, \frac{928}{2749}, -\frac{116}{2749}, \frac{406}{2749}, -\frac{435}{2749}, \frac{87}{2749})$ $+ \frac{203}{2749}\sqrt{30}e^5 \otimes e_9 + \frac{29}{2749}\sqrt{3642}e^2 \otimes e_4$	{134679, 457}
942:180	$0, 0, 0, 0, 0, \frac{49}{481}\sqrt{10}e^{12}, \frac{7}{481}\sqrt{446}e^{13}, \frac{70}{481}\sqrt{5}e^{16} + \frac{35}{481}\sqrt{22}e^{24},$ $\frac{35}{481}\sqrt{22}e^{17} + \frac{7}{481}\sqrt{30}e^{26}$	$(\frac{35}{481}, -\frac{7}{481}, -\frac{49}{481}, \frac{70}{481}, -\frac{98}{481}, \frac{28}{481}, -\frac{14}{481}, \frac{63}{481}, \frac{21}{481})$ $+ \frac{28}{481}\sqrt{17}e^3 \otimes e_5 + \frac{7}{481}\sqrt{614}e^4 \otimes e_9$	{23789, 3679}
942:180	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{46}e^{12}, \frac{1}{79}\sqrt{470}e^{13}, \frac{4}{79}\sqrt{13}e^{16} + \frac{8}{79}\sqrt{10}e^{24},$ $\frac{7}{79}\sqrt{10}e^{17} + \frac{1}{79}\sqrt{510}e^{26}$	$(0, \frac{1}{79}, \frac{2}{79}, 0, -\frac{8}{79}, \frac{1}{79}, \frac{2}{79}, \frac{1}{79}, \frac{2}{79})$ $+ \frac{15}{79}\sqrt{2}e^3 \otimes e_8 + \frac{4}{79}\sqrt{39}e^2 \otimes e_4$	{457, 47}
942:180	$0, 0, 0, 0, 0, \frac{5}{3901}\sqrt{4010}e^{12}, \frac{10}{3901}\sqrt{862}e^{13},$ $\frac{10}{3901}\sqrt{734}e^{16} + \frac{95}{3901}\sqrt{14}e^{24}, \frac{5}{3901}\sqrt{4118}e^{17} + \frac{15}{3901}\sqrt{46}e^{26}$	$(-\frac{15}{3901}, -\frac{20}{3901}, -\frac{25}{3901}, \frac{30}{3901}, \frac{295}{3901}, -\frac{35}{3901}, \frac{40}{3901}, -\frac{50}{3901}, -\frac{55}{3901})$ $+ \frac{10}{3901}\sqrt{1101}e^4 \otimes e_9 + \frac{30}{3901}\sqrt{78}e^3 \otimes e_8$	{1359, 139}
942:180	$0, 0, 0, 0, 0, \frac{23}{2113}\sqrt{1562}e^{12}, \frac{23}{2113}\sqrt{1510}e^{13},$ $\frac{46}{2113}\sqrt{401}e^{16} + \frac{23}{2113}\sqrt{2118}e^{24}, \frac{23}{2113}\sqrt{2422}e^{17} + \frac{69}{2113}\sqrt{14}e^{26}$	$(\frac{299}{2113}, -\frac{115}{2113}, -\frac{529}{2113}, \frac{598}{2113}, -\frac{230}{2113}, \frac{184}{2113}, -\frac{230}{2113}, \frac{483}{2113}, \frac{69}{2113})$ $+ \frac{69}{2113}\sqrt{318}e^4 \otimes e_9 + \frac{92}{2113}\sqrt{57}e^1 \otimes e_5$	{235789, 35679}
942:180	$0, 0, 0, 0, 0, \frac{136}{575}\sqrt{7}e^{12}, \frac{34}{575}\sqrt{123}e^{13}, \frac{34}{575}\sqrt{159}e^{16} + \frac{68}{575}\sqrt{19}e^{24},$ $\frac{34}{575}\sqrt{235}e^{17} + \frac{34}{575}\sqrt{141}e^{26}$	$(\frac{11}{575}, -\frac{7}{575}, -\frac{1}{23}, \frac{22}{575}, 1, \frac{4}{575}, -\frac{14}{575}, \frac{3}{115}, -\frac{3}{575})$ $+ \frac{102}{575}\sqrt{53}e^5 \otimes e_9$	{125678, 157, 23789, 3679}
942:180	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{30}e^{12}, \frac{1}{21}\sqrt{102}e^{13}, \frac{4}{21}\sqrt{6}e^{16} + \frac{2}{7}\sqrt{5}e^{24},$ $\frac{2}{7}\sqrt{5}e^{17} + \frac{2}{21}\sqrt{51}e^{26}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{21}\sqrt{30}e^3 \otimes e_5 + \frac{1}{21}\sqrt{318}e^2 \otimes e_4$	{134679, 457}
942:180	$0, 0, 0, 0, 0, \frac{36}{469}\sqrt{47}e^{12}, \frac{180}{469}e^{13}, \frac{12}{469}\sqrt{390}e^{16} + \frac{12}{469}\sqrt{258}e^{24},$ $\frac{12}{469}\sqrt{165}e^{17} + \frac{36}{469}\sqrt{11}e^{26}$	$(\frac{66}{469}, -\frac{6}{67}, -\frac{150}{469}, \frac{132}{469}, \frac{198}{469}, \frac{24}{469}, -\frac{12}{67}, \frac{90}{469}, -\frac{18}{469})$ $- \frac{12}{469}\sqrt{813}e^1 \otimes e_3 + \frac{24}{469}\sqrt{114}e^5 \otimes e_9$	{12489, 1469, 234568, 345}
942:180	$0, 0, 0, 0, 0, \frac{36}{469}\sqrt{47}e^{12}, \frac{180}{469}e^{13}, \frac{12}{469}\sqrt{390}e^{16} + \frac{12}{469}\sqrt{258}e^{24},$ $\frac{12}{469}\sqrt{165}e^{17} + \frac{36}{469}\sqrt{11}e^{26}$	$(\frac{66}{469}, -\frac{6}{67}, -\frac{150}{469}, \frac{132}{469}, \frac{198}{469}, \frac{24}{469}, -\frac{12}{67}, \frac{90}{469}, -\frac{18}{469})$ $+ \frac{12}{469}\sqrt{813}e^1 \otimes e_3 + \frac{24}{469}\sqrt{114}e^5 \otimes e_9$	{12489, 1469, 234568, 345}
942:181	$0, 0, 0, 0, 0, \frac{7}{367}\sqrt{1878}e^{12}, \frac{1}{367}\sqrt{626}e^{13}, \frac{5}{367}\sqrt{1878}e^{14} + \frac{4}{367}\sqrt{5947}e^{26},$ $\frac{2}{367}\sqrt{2191}e^{16} + \frac{5}{367}\sqrt{626}e^{37}$	$(\frac{2}{367}, \frac{68}{367}, \frac{35}{367}, \frac{136}{367}, -\frac{245}{367}, \frac{70}{367}, \frac{37}{367}, \frac{138}{367}, \frac{72}{367})$ $+ \frac{6}{367}\sqrt{5321}e^2 \otimes e_5$	{1345689, 1456789, 23467, 246}
942:181	$0, 0, 0, 0, 0, \frac{4}{113}\sqrt{46}e^{12}, \frac{16}{113}e^{13}, \frac{4}{113}\sqrt{122}e^{14} + \frac{8}{113}\sqrt{17}e^{26},$ $\frac{8}{113}\sqrt{31}e^{16} + \frac{4}{113}\sqrt{42}e^{37}$	$(-\frac{8}{113}, \frac{16}{113}, \frac{4}{113}, \frac{32}{113}, -\frac{40}{113}, \frac{8}{113}, -\frac{4}{113}, \frac{24}{113}, 0)$ $+ \frac{16}{113}\sqrt{13}e^4 \otimes e_9 + \frac{4}{113}\sqrt{202}e^1 \otimes e_5$	{13467, 146}
942:181	$0, 0, 0, 0, 0, \frac{4}{451}\sqrt{318}e^{12}, \frac{16}{451}\sqrt{51}e^{13}, \frac{36}{451}\sqrt{6}e^{14} + \frac{8}{451}\sqrt{165}e^{26},$ $\frac{8}{451}\sqrt{203}e^{16} + \frac{4}{451}\sqrt{822}e^{37}$	$(\frac{4}{41}, -\frac{36}{451}, \frac{4}{451}, -\frac{72}{451}, \frac{12}{451}, \frac{8}{451}, \frac{48}{451}, -\frac{28}{451}, \frac{52}{451})$ $+ \frac{16}{451}\sqrt{91}e^3 \otimes e_8 + \frac{20}{451}\sqrt{6}e^1 \otimes e_5$	{123469, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:181	$0, 0, 0, 0, 0, \frac{92}{1897}\sqrt{93}e^{12}, \frac{23}{1897}\sqrt{299}e^{13},$ $\frac{23}{1897}\sqrt{969}e^{14} + \frac{46}{1897}\sqrt{187}e^{26} + \frac{23}{1897}\sqrt{731}e^{16} + \frac{46}{1897}\sqrt{31}e^{37}$	$(\frac{299}{1897}, -\frac{115}{1897}, \frac{92}{1897}, -\frac{230}{1897}, -\frac{92}{271}, \frac{184}{1897}, \frac{391}{1897}, \frac{69}{1897}, \frac{69}{271})$ $+ \frac{46}{1897}\sqrt{447}e^1 \otimes e_4 + \frac{69}{1897}\sqrt{183}e^2 \otimes e_5$	{234679, 2469}
942:181	$0, 0, 0, 0, 0, \frac{11}{6223}\sqrt{2562}e^{12}, \frac{11}{6223}\sqrt{4902}e^{13},$ $\frac{11}{6223}\sqrt{3918}e^{14} + \frac{44}{6223}\sqrt{253}e^{26} + \frac{88}{6223}\sqrt{89}e^{16} + \frac{11}{6223}\sqrt{5354}e^{37}$	$(\frac{286}{6223}, -\frac{176}{6223}, \frac{55}{6223}, -\frac{352}{6223}, -\frac{473}{6223}, \frac{110}{6223}, \frac{341}{6223}, -\frac{66}{6223}, \frac{396}{6223})$ $+ \frac{44}{6223}\sqrt{130}e^4 \otimes e_5 + \frac{44}{6223}\sqrt{577}e^3 \otimes e_8$	{123469, 468}
942:181	$0, 0, 0, 0, 0, \frac{24}{739}\sqrt{410}e^{12}, \frac{32}{739}\sqrt{95}e^{13}, \frac{8}{739}\sqrt{2190}e^{14} + \frac{16}{739}\sqrt{335}e^{26},$ $\frac{16}{739}\sqrt{1085}e^{16} + \frac{8}{739}\sqrt{610}e^{37}$	$(\frac{152}{739}, \frac{8}{739}, \frac{80}{739}, \frac{16}{739}, -\frac{488}{739}, \frac{160}{739}, \frac{232}{739}, \frac{168}{739}, \frac{312}{739})$ $+ \frac{8}{739}\sqrt{12270}e^1 \otimes e_5$	{1346, 1467, 23456789, 245689}
942:181	$0, 0, 0, 0, 0, \frac{25}{1129}\sqrt{177}e^{14} + \frac{50}{1129}\sqrt{73}e^{26}, \frac{25}{1129}\sqrt{209}e^{16} + \frac{50}{1129}\sqrt{89}e^{37}$	$(-\frac{175}{1129}, \frac{275}{1129}, \frac{50}{1129}, \frac{550}{1129}, -\frac{350}{1129}, \frac{100}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+ \frac{50}{1129}\sqrt{249}e^4 \otimes e_9 + \frac{75}{1129}\sqrt{109}e^2 \otimes e_5$	{2369, 2679}
942:181	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{111}e^{12}, \frac{3}{25}\sqrt{3}e^{13}, \frac{1}{25}\sqrt{83}e^{14} + \frac{1}{25}\sqrt{14}e^{26},$ $\frac{2}{25}\sqrt{42}e^{16} + \frac{1}{25}e^{37}$	$(\frac{3}{25}, -\frac{3}{25}, 0, -\frac{6}{25}, \frac{12}{25}, 0, \frac{3}{25}, -\frac{3}{25}, \frac{3}{25})$ $+ \frac{1}{25}\sqrt{173}e^5 \otimes e_9 + \frac{3}{25}\sqrt{26}e^1 \otimes e_4$	{1239, 1279}
942:181	$0, 0, 0, 0, 0, \frac{1}{1389}\sqrt{38258}e^{12}, \frac{1}{1389}\sqrt{149554}e^{13},$ $\frac{1}{1389}\sqrt{1992894}e^{14} + \frac{2}{1389}\sqrt{66082}e^{26} + \frac{4}{1389}\sqrt{24346}e^{16} + \frac{1}{1389}\sqrt{399970}e^{37}$	$(-\frac{86}{1389}, \frac{136}{463}, \frac{161}{1389}, \frac{272}{463}, -\frac{923}{1389}, \frac{322}{1389}, \frac{25}{463}, \frac{730}{1389}, \frac{236}{1389})$ $+ \frac{34}{1389}\sqrt{3478}e^4 \otimes e_5$	{13578, 158, 2359, 2579}
942:181	$0, 0, 0, 0, 0, \frac{26}{563}\sqrt{111}e^{12}, \frac{26}{563}\sqrt{65}e^{13}, \frac{52}{563}\sqrt{6}e^{14} + \frac{208}{563}e^{26},$ $\frac{52}{563}\sqrt{23}e^{16} + \frac{26}{563}\sqrt{7}e^{37}$	$(\frac{130}{563}, -\frac{104}{563}, \frac{13}{563}, -\frac{208}{563}, \frac{260}{563}, \frac{26}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+ \frac{26}{563}\sqrt{303}e^1 \otimes e_4 + \frac{78}{563}\sqrt{21}e^5 \otimes e_8$	{2345679, 24569}
942:181	$0, 0, 0, 0, 0, \frac{1034}{5629}\sqrt{3}e^{12}, \frac{94}{5629}\sqrt{917}e^{13},$ $\frac{94}{5629}\sqrt{438}e^{14} + \frac{94}{5629}\sqrt{202}e^{26}, \frac{47}{5629}\sqrt{554}e^{16} + \frac{47}{5629}\sqrt{1886}e^{37}$	$(\frac{1175}{5629}, -\frac{517}{5629}, \frac{329}{5629}, -\frac{1034}{5629}, -\frac{1880}{5629}, \frac{658}{5629}, \frac{1504}{5629}, \frac{141}{5629}, \frac{141}{433})$ $+ \frac{1363}{5629}\sqrt{6}e^1 \otimes e_4 + \frac{141}{5629}\sqrt{554}e^3 \otimes e_5$	{347, 45}
942:181	$0, 0, 0, 0, 0, \frac{2}{2857}\sqrt{83973}e^{12}, \frac{4}{2857}\sqrt{115615}e^{13},$ $\frac{14}{2857}\sqrt{25557}e^{14} + \frac{2}{2857}\sqrt{490451}e^{26} + \frac{2}{2857}\sqrt{756974}e^{16} + \frac{2}{2857}\sqrt{906665}e^{37}$	$(-\frac{760}{2857}, \frac{914}{2857}, \frac{77}{2857}, \frac{1828}{2857}, \frac{442}{2857}, \frac{154}{2857}, -\frac{683}{2857}, \frac{1068}{2857}, -\frac{606}{2857})$ $+ \frac{2}{2857}\sqrt{2939055}e^4 \otimes e_9$	{3569, 369, 5679, 679}
942:181	$0, 0, 0, 0, 0, \frac{28}{941}\sqrt{57}e^{12}, \frac{28}{941}\sqrt{70}e^{13}, \frac{14}{941}\sqrt{1338}e^{14} + \frac{14}{941}\sqrt{154}e^{26},$ $\frac{28}{941}\sqrt{26}e^{16} + \frac{14}{941}\sqrt{710}e^{37}$	$(-\frac{140}{941}, \frac{112}{941}, -\frac{14}{941}, \frac{224}{941}, \frac{476}{941}, -\frac{28}{941}, -\frac{154}{941}, \frac{84}{941}, -\frac{168}{941})$ $+ \frac{28}{941}\sqrt{465}e^4 \otimes e_9 + \frac{42}{941}\sqrt{170}e^5 \otimes e_8$	{1234567, 12456}
942:181	$0, 0, 0, 0, 0, \frac{4}{971}\sqrt{8717}e^{12}, \frac{2}{971}\sqrt{173582}e^{13},$ $\frac{4}{971}\sqrt{2653}e^{14} + \frac{2}{971}\sqrt{58745}e^{26}, \frac{2}{971}\sqrt{107257}e^{16} + \frac{2}{971}\sqrt{158422}e^{37}$	$(\frac{99}{971}, \frac{91}{971}, \frac{95}{971}, \frac{182}{971}, -\frac{663}{971}, \frac{190}{971}, \frac{194}{971}, \frac{281}{971}, \frac{289}{971})$ $+ \frac{2}{971}\sqrt{309643}e^3 \otimes e_5$	{12369, 125679, 3678, 568}
942:181	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{1778}e^{12}, \frac{1}{121}\sqrt{1270}e^{13}, \frac{1}{121}\sqrt{9398}e^{14} + \frac{6}{121}\sqrt{254}e^{26},$ $\frac{4}{121}\sqrt{381}e^{16} + \frac{1}{121}\sqrt{3810}e^{37}$	$(\frac{10}{121}, -\frac{8}{121}, \frac{1}{121}, -\frac{16}{121}, \frac{1}{121}, \frac{2}{121}, \frac{1}{11}, -\frac{6}{121}, \frac{12}{121})$ $+ \frac{10}{121}\sqrt{254}e^5 \otimes e_8$	{1234569, 1245679, 34678, 468}
942:181	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{2}{13}\sqrt{3}e^{13}, \frac{1}{39}\sqrt{62}e^{14} + \frac{2}{39}\sqrt{23}e^{26},$ $\frac{1}{39}\sqrt{114}e^{16} + \frac{2}{39}\sqrt{29}e^{37}$	$(\frac{1}{13}, -\frac{1}{13}, 0, -\frac{2}{13}, \frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{22}e^3 \otimes e_8 + \frac{1}{39}\sqrt{10}e^5 \otimes e_9$	{123469, 4568}
942:181	$0, 0, 0, 0, 0, \frac{21}{4877}\sqrt{202}e^{12}, \frac{7}{4877}\sqrt{3390}e^{13},$ $\frac{42}{4877}\sqrt{83}e^{14} + \frac{28}{4877}\sqrt{174}e^{26}, \frac{7}{4877}\sqrt{3566}e^{16} + \frac{14}{4877}\sqrt{1110}e^{37}$	$(-\frac{35}{4877}, -\frac{21}{4877}, -\frac{28}{4877}, -\frac{42}{4877}, \frac{462}{4877}, -\frac{56}{4877}, -\frac{63}{4877}, -\frac{77}{4877}, -\frac{91}{4877})$ $+ \frac{35}{4877}\sqrt{274}e^3 \otimes e_8 + \frac{42}{4877}\sqrt{55}e^4 \otimes e_9$	{4568, 468}
942:181	$0, 0, 0, 0, 0, \frac{5}{27}\sqrt{6}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{1}{27}\sqrt{70}e^{14} + \frac{2}{27}\sqrt{10}e^{26},$ $\frac{4}{27}\sqrt{30}e^{16} + \frac{2}{27}\sqrt{95}e^{37}$	$(-\frac{1}{9}, \frac{1}{9}, 0, \frac{2}{9}, 1, 0, -\frac{1}{9}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{1330}e^5 \otimes e_9$	{13567, 156, 23689, 26789}
942:181	$0, 0, 0, 0, 0, \frac{2}{2869}\sqrt{1160715}e^{12}, \frac{2}{2869}\sqrt{543005}e^{13},$ $\frac{2}{2869}\sqrt{826215}e^{14} + \frac{2}{2869}\sqrt{25645}e^{26}, \frac{4}{2869}\sqrt{308855}e^{16} + \frac{8}{2869}\sqrt{15610}e^{37}$	$(\frac{974}{2869}, -\frac{628}{2869}, \frac{173}{2869}, -\frac{1256}{2869}, \frac{436}{2869}, \frac{346}{2869}, \frac{1147}{2869}, -\frac{282}{2869}, \frac{1320}{2869})$ $+ \frac{2}{2869}\sqrt{2712795}e^1 \otimes e_4$	{2345679, 234679, 24569, 2469}
942:181	$0, 0, 0, 0, 0, \frac{3}{289}\sqrt{322}e^{12}, \frac{1}{289}\sqrt{6486}e^{13}, \frac{9}{289}\sqrt{46}e^{14} + \frac{4}{289}\sqrt{345}e^{26},$ $\frac{4}{289}\sqrt{437}e^{16} + \frac{7}{289}\sqrt{138}e^{37}$	$(\frac{26}{289}, -\frac{24}{289}, \frac{1}{289}, -\frac{48}{289}, \frac{33}{289}, \frac{2}{289}, \frac{27}{289}, -\frac{22}{289}, \frac{28}{289})$ $+ \frac{16}{289}\sqrt{46}e^3 \otimes e_8$	{1234569, 123469, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:181	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{1290e^{12}}, \frac{1}{289}\sqrt{1770e^{13}}, \frac{12}{289}\sqrt{10e^{14}} + \frac{4}{289}\sqrt{105e^{26}},$ $\frac{1}{289}\sqrt{2570e^{16}} + \frac{12}{289}\sqrt{15e^{37}}$	$(-\frac{1}{289}, -\frac{3}{289}, -\frac{2}{289}, -\frac{6}{289}, \frac{36}{289}, -\frac{4}{289}, -\frac{3}{289}, -\frac{7}{289}, -\frac{5}{289})$ $+\frac{2}{289}\sqrt{255e^1} \otimes e_4 + \frac{5}{289}\sqrt{142e^3} \otimes e_8$	{1234569, 123469}
942:181	$0, 0, 0, 0, 0, \frac{3}{287}\sqrt{58e^{12}}, \frac{3}{287}\sqrt{226e^{13}}, \frac{3}{287}\sqrt{106e^{14}} + \frac{12}{287}\sqrt{15e^{26}},$ $\frac{18}{287}\sqrt{7e^{16}} + \frac{33}{287}\sqrt{2e^{37}}$	$(\frac{18}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{24}{287}, -\frac{3}{41}, \frac{6}{287}, \frac{3}{41}, -\frac{6}{287}, \frac{24}{287})$ $+\frac{12}{287}\sqrt{26e^3} \otimes e_8 + \frac{30}{287}e^2 \otimes e_5$	{123469, 4568}
942:181	$0, 0, 0, 0, 0, \frac{98}{6037}\sqrt{237e^{12}}, \frac{49}{6037}\sqrt{2162e^{13}},$ $\frac{196}{6037}\sqrt{123e^{14}} + \frac{98}{6037}\sqrt{5e^{26}}, \frac{49}{6037}\sqrt{622e^{16}} + \frac{2254}{6037}\sqrt{2e^{37}}$	$(-\frac{637}{6037}, \frac{1127}{6037}, \frac{245}{6037}, \frac{2254}{6037}, -\frac{2156}{6037}, \frac{490}{6037}, -\frac{392}{6037}, \frac{1617}{6037}, -\frac{147}{6037})$ $+\frac{147}{6037}\sqrt{622e^3} \otimes e_5 + \frac{49}{6037}\sqrt{5190e^4} \otimes e_9$	{123689, 1256789}
942:182	$0, 0, 0, 0, 0, -\frac{23}{1825}\sqrt{1561e^{12}}, \frac{23}{1825}\sqrt{115e^{13}},$ $\frac{46}{1825}\sqrt{182e^{16}} + \frac{69}{1825}\sqrt{102e^{24}}, \frac{23}{1825}\sqrt{793e^{26}} + \frac{23}{1825}\sqrt{155e^{37}}$	$(-\frac{23}{365}, \frac{299}{1825}, \frac{299}{1825}, -\frac{46}{365}, -\frac{644}{1825}, \frac{184}{1825}, \frac{184}{1825}, \frac{69}{1825}, \frac{483}{1825})$ $+\frac{23}{1825}\sqrt{1706e^2} \otimes e_4 + \frac{92}{1825}\sqrt{101e^1} \otimes e_5$	{134679, 1469, 345, 457, 134679, 1469, 345, 457}
942:182	$0, 0, 0, 0, 0, \frac{23}{1825}\sqrt{1561e^{12}}, \frac{23}{1825}\sqrt{115e^{13}},$ $\frac{46}{1825}\sqrt{182e^{16}} + \frac{69}{1825}\sqrt{102e^{24}}, \frac{23}{1825}\sqrt{793e^{26}} + \frac{23}{1825}\sqrt{155e^{37}}$	$(-\frac{23}{365}, \frac{299}{1825}, \frac{299}{1825}, -\frac{46}{365}, -\frac{644}{1825}, \frac{184}{1825}, \frac{184}{1825}, \frac{69}{1825}, \frac{483}{1825})$ $+\frac{23}{1825}\sqrt{1706e^2} \otimes e_4 + \frac{92}{1825}\sqrt{101e^1} \otimes e_5$	{134679, 1469, 345, 457, 134679, 1469, 345, 457}
942:182	$0, 0, 0, 0, 0, -\frac{1}{348}\sqrt{40090e^{12}}, \frac{1}{348}\sqrt{40934e^{13}},$ $\frac{1}{174}\sqrt{8018e^{16}} + \frac{1}{174}\sqrt{32494e^{24}}, \frac{1}{348}\sqrt{24054e^{26}} + \frac{1}{348}\sqrt{24898e^{37}}$	$(\frac{97}{348}, -\frac{3}{58}, -\frac{3}{58}, \frac{97}{174}, -\frac{19}{29}, \frac{79}{348}, \frac{79}{348}, \frac{44}{87}, \frac{61}{348})$ $+\frac{2}{29}\sqrt{422e^4} \otimes e_5$	{1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56, 1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56}
942:182	$0, 0, 0, 0, 0, \frac{1}{348}\sqrt{40090e^{12}}, \frac{1}{348}\sqrt{40934e^{13}},$ $\frac{1}{174}\sqrt{8018e^{16}} + \frac{1}{174}\sqrt{32494e^{24}}, \frac{1}{348}\sqrt{24054e^{26}} + \frac{1}{348}\sqrt{24898e^{37}}$	$(\frac{97}{348}, -\frac{3}{58}, -\frac{3}{58}, \frac{97}{174}, -\frac{19}{29}, \frac{79}{348}, \frac{79}{348}, \frac{44}{87}, \frac{61}{348})$ $+\frac{2}{29}\sqrt{422e^4} \otimes e_5$	{1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56, 1235689, 1256789, 1359, 1579, 23578, 258, 3567, 56}
942:182	$0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{6e^{12}}, \frac{1}{9}\sqrt{10e^{13}}, \frac{2}{9}e^{16} + \frac{2}{9}\sqrt{3e^{24}},$ $\frac{1}{9}\sqrt{6e^{26}} + \frac{1}{9}\sqrt{14e^{37}}$	$(-\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, 0, 0, -\frac{1}{9}, \frac{1}{9})$ $+\frac{2}{9}\sqrt{2e^5} \otimes e_9 + \frac{2}{9}\sqrt{6e^3} \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:182	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{6e^{12}}, \frac{1}{9}\sqrt{10e^{13}}, \frac{2}{9}e^{16} + \frac{2}{9}\sqrt{3e^{24}},$ $\frac{1}{9}\sqrt{6e^{26}} + \frac{1}{9}\sqrt{14e^{37}}$	$(-\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, 0, 0, -\frac{1}{9}, \frac{1}{9})$ $+\frac{2}{9}\sqrt{2e^5} \otimes e_9 + \frac{2}{9}\sqrt{6e^3} \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:182	$0, 0, 0, 0, 0, -\frac{25}{233}\sqrt{11e^{12}}, \frac{25}{233}\sqrt{11e^{13}}, \frac{10}{233}\sqrt{55e^{16}} + \frac{10}{233}\sqrt{55e^{24}},$ $\frac{5}{233}\sqrt{165e^{26}} + \frac{5}{233}\sqrt{385e^{37}}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1010e^1} \otimes e_5 + \frac{5}{233}\sqrt{1010e^4} \otimes e_9$	{12389, 12789, 1369, 1679, 12389, 12789, 1369, 1679}
942:182	$0, 0, 0, 0, 0, \frac{25}{233}\sqrt{11e^{12}}, \frac{25}{233}\sqrt{11e^{13}}, \frac{10}{233}\sqrt{55e^{16}} + \frac{10}{233}\sqrt{55e^{24}},$ $\frac{5}{233}\sqrt{165e^{26}} + \frac{5}{233}\sqrt{385e^{37}}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1010e^1} \otimes e_5 + \frac{5}{233}\sqrt{1010e^4} \otimes e_9$	{12389, 12789, 1369, 1679, 12389, 12789, 1369, 1679}
942:182	$0, 0, 0, 0, 0, -\frac{1}{20}\sqrt{58e^{12}}, \frac{1}{180}\sqrt{7366e^{13}}, \frac{1}{90}\sqrt{870e^{16}} + \frac{1}{90}\sqrt{2378e^{24}},$ $\frac{1}{180}\sqrt{6438e^{26}} + \frac{1}{180}\sqrt{9106e^{37}}$	$(-\frac{29}{180}, \frac{19}{90}, \frac{19}{90}, -\frac{29}{90}, \frac{2}{15}, \frac{1}{20}, \frac{1}{20}, -\frac{1}{9}, \frac{47}{180})$ $+\frac{1}{45}\sqrt{1131e^3} \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
942:182	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{58e^{12}}, \frac{1}{180}\sqrt{7366e^{13}}, \frac{1}{90}\sqrt{870e^{16}} + \frac{1}{90}\sqrt{2378e^{24}},$ $\frac{1}{180}\sqrt{6438e^{26}} + \frac{1}{180}\sqrt{9106e^{37}}$	$(-\frac{29}{180}, \frac{19}{90}, \frac{19}{90}, -\frac{29}{90}, \frac{2}{15}, \frac{1}{20}, \frac{1}{20}, -\frac{1}{9}, \frac{47}{180})$ $+\frac{1}{45}\sqrt{1131e^3} \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
942:182	$0, 0, 0, 0, 0, -\frac{2}{87}\sqrt{66e^{12}}, \frac{4}{29}\sqrt{2e^{13}}, \frac{4}{29}\sqrt{5e^{16}} + \frac{14}{87}\sqrt{6e^{24}},$ $\frac{4}{87}\sqrt{69e^{26}} + \frac{2}{87}\sqrt{102e^{37}}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{10}{29}, \frac{2}{29}, \frac{2}{29}, \frac{6}{29}, 0)$ $+\frac{2}{87}\sqrt{462e^2} \otimes e_5 + \frac{8}{87}\sqrt{30e^4} \otimes e_9$	{23467, 246, 34578, 458, 23467, 246, 34578, 458}
942:182	$0, 0, 0, 0, 0, \frac{2}{87}\sqrt{66e^{12}}, \frac{4}{29}\sqrt{2e^{13}}, \frac{4}{29}\sqrt{5e^{16}} + \frac{14}{87}\sqrt{6e^{24}},$ $\frac{4}{87}\sqrt{69e^{26}} + \frac{2}{87}\sqrt{102e^{37}}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{10}{29}, \frac{2}{29}, \frac{2}{29}, \frac{6}{29}, 0)$ $+\frac{2}{87}\sqrt{462e^2} \otimes e_5 + \frac{8}{87}\sqrt{30e^4} \otimes e_9$	{23467, 246, 34578, 458, 23467, 246, 34578, 458}
942:182	$0, 0, 0, 0, 0, -\frac{156}{277}e^{12}, \frac{26}{277}\sqrt{13e^{13}}, \frac{26}{277}\sqrt{19e^{16}} + \frac{13}{277}\sqrt{22e^{24}},$ $\frac{13}{277}\sqrt{106e^{26}} + \frac{13}{277}\sqrt{14e^{37}}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{182}{277}e^5 \otimes e_8 + \frac{91}{277}\sqrt{6e^2} \otimes e_4$	{1345679, 14569, 345, 457, 1345679, 14569, 345, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:182	$0, 0, 0, 0, 0, \frac{156}{277}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{22}e^{24},$ $\frac{13}{277}\sqrt{106}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{182}{277}e^5 \otimes e_8 + \frac{91}{277}\sqrt{6}e^2 \otimes e_4$	{1345679, 14569, 345, 457, 1345679, 14569, 345, 457}
942:182	$0, 0, 0, 0, 0, -\frac{7}{243}\sqrt{10}e^{12}, \frac{7}{729}\sqrt{766}e^{13}, \frac{14}{729}\sqrt{177}e^{16} + \frac{14}{729}\sqrt{173}e^{24},$ $\frac{7}{243}\sqrt{74}e^{26} + \frac{7}{729}\sqrt{898}e^{37}$	$(-\frac{49}{729}, \frac{91}{729}, \frac{91}{729}, -\frac{98}{729}, -\frac{49}{243}, \frac{14}{243}, \frac{14}{243}, -\frac{7}{729}, \frac{133}{729})$ $+ \frac{14}{729}\sqrt{222}e^1 \otimes e_5 + \frac{56}{243}\sqrt{3}e^3 \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:182	$0, 0, 0, 0, 0, \frac{7}{243}\sqrt{10}e^{12}, \frac{7}{729}\sqrt{766}e^{13}, \frac{14}{729}\sqrt{177}e^{16} + \frac{14}{729}\sqrt{173}e^{24},$ $\frac{7}{243}\sqrt{74}e^{26} + \frac{7}{729}\sqrt{898}e^{37}$	$(-\frac{49}{729}, \frac{91}{729}, \frac{91}{729}, -\frac{98}{729}, -\frac{49}{243}, \frac{14}{243}, \frac{14}{243}, -\frac{7}{729}, \frac{133}{729})$ $+ \frac{14}{729}\sqrt{222}e^1 \otimes e_5 + \frac{56}{243}\sqrt{3}e^3 \otimes e_8$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
942:182	$0, 0, 0, 0, 0, -\frac{2}{29}\sqrt{14}e^{12}, \frac{8}{29}\sqrt{2}e^{13}, \frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{46}e^{24},$ $\frac{4}{29}\sqrt{5}e^{26} + \frac{2}{29}\sqrt{38}e^{37}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{22}e^2 \otimes e_5 + \frac{8}{29}\sqrt{5}e^3 \otimes e_8$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
942:182	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{14}e^{12}, \frac{8}{29}\sqrt{2}e^{13}, \frac{4}{29}\sqrt{3}e^{16} + \frac{2}{29}\sqrt{46}e^{24},$ $\frac{4}{29}\sqrt{5}e^{26} + \frac{2}{29}\sqrt{38}e^{37}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{22}e^2 \otimes e_5 + \frac{8}{29}\sqrt{5}e^3 \otimes e_8$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
942:182	$0, 0, 0, 0, 0, -\frac{1}{7}\sqrt{10}e^{12}, \frac{1}{21}\sqrt{66}e^{13}, \frac{2}{21}\sqrt{6}e^{16} + \frac{2}{7}e^{24},$ $\frac{1}{21}\sqrt{102}e^{26} + \frac{1}{7}\sqrt{6}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{51}e^3 \otimes e_5 + \frac{4}{21}\sqrt{15}e^2 \otimes e_4$	{1239, 12579, 2367, 256, 1239, 12579, 2367, 256}
942:182	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{21}\sqrt{66}e^{13}, \frac{2}{21}\sqrt{6}e^{16} + \frac{2}{7}e^{24},$ $\frac{1}{21}\sqrt{102}e^{26} + \frac{1}{7}\sqrt{6}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{51}e^3 \otimes e_5 + \frac{4}{21}\sqrt{15}e^2 \otimes e_4$	{1239, 12579, 2367, 256, 1239, 12579, 2367, 256}
942:182	$0, 0, 0, 0, 0, -\frac{2}{941}\sqrt{798}e^{12}, \frac{46}{941}\sqrt{2}e^{13}, \frac{4}{941}\sqrt{21}e^{16} + \frac{16}{941}\sqrt{26}e^{24},$ $\frac{2}{941}\sqrt{514}e^{26} + \frac{2}{941}\sqrt{1426}e^{37}$	$(-\frac{4}{941}, -\frac{6}{941}, -\frac{6}{941}, -\frac{8}{941}, \frac{82}{941}, -\frac{10}{941}, -\frac{10}{941}, -\frac{14}{941}, -\frac{16}{941})$ $+ \frac{4}{941}\sqrt{326}e^4 \otimes e_9 + \frac{4}{941}\sqrt{533}e^3 \otimes e_8$	{23457, 2347, 4568, 468, 23457, 2347, 4568, 468}
942:182	$0, 0, 0, 0, 0, \frac{2}{941}\sqrt{798}e^{12}, \frac{46}{941}\sqrt{2}e^{13}, \frac{4}{941}\sqrt{21}e^{16} + \frac{16}{941}\sqrt{26}e^{24},$ $\frac{2}{941}\sqrt{514}e^{26} + \frac{2}{941}\sqrt{1426}e^{37}$	$(-\frac{4}{941}, -\frac{6}{941}, -\frac{6}{941}, -\frac{8}{941}, \frac{82}{941}, -\frac{10}{941}, -\frac{10}{941}, -\frac{14}{941}, -\frac{16}{941})$ $+ \frac{4}{941}\sqrt{326}e^4 \otimes e_9 + \frac{4}{941}\sqrt{533}e^3 \otimes e_8$	{23457, 2347, 4568, 468, 23457, 2347, 4568, 468}
942:182	$0, 0, 0, 0, 0, -\frac{3}{20}\sqrt{2}e^{12}, \frac{9}{140}\sqrt{14}e^{13}, \frac{1}{70}\sqrt{70}e^{16} + \frac{1}{70}\sqrt{462}e^{24},$ $\frac{1}{140}\sqrt{1022}e^{26} + \frac{1}{20}\sqrt{26}e^{37}$	$(-\frac{1}{20}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{5}, \frac{1}{20}, \frac{1}{20}, 0, \frac{3}{20})$ $+ \frac{1}{35}\sqrt{154}e^3 \otimes e_8 + \frac{1}{35}\sqrt{70}e^4 \otimes e_5$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
942:182	$0, 0, 0, 0, 0, \frac{3}{20}\sqrt{2}e^{12}, \frac{9}{140}\sqrt{14}e^{13}, \frac{1}{70}\sqrt{70}e^{16} + \frac{1}{70}\sqrt{462}e^{24},$ $\frac{1}{140}\sqrt{1022}e^{26} + \frac{1}{20}\sqrt{26}e^{37}$	$(-\frac{1}{20}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{5}, \frac{1}{20}, \frac{1}{20}, 0, \frac{3}{20})$ $+ \frac{1}{35}\sqrt{154}e^3 \otimes e_8 + \frac{1}{35}\sqrt{70}e^4 \otimes e_5$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
942:182	$0, 0, 0, 0, 0, -\frac{1}{171}\sqrt{21823}e^{12}, \frac{1}{171}\sqrt{5421}e^{13}, \frac{2}{171}\sqrt{278}e^{16} + \frac{1}{57}\sqrt{1390}e^{24},$ $\frac{1}{57}\sqrt{2363}e^{26} + \frac{1}{171}\sqrt{4865}e^{37}$	$(-\frac{13}{57}, \frac{61}{171}, \frac{61}{171}, -\frac{26}{57}, \frac{8}{57}, \frac{22}{171}, \frac{22}{171}, -\frac{17}{171}, \frac{83}{171})$ $+ \frac{7}{171}\sqrt{834}e^2 \otimes e_4$	{1345679, 134679, 14569, 1469, 34, 345, 457, 47, 1345679, 134679, 14569, 1469, 34, 345, 457, 47}
942:182	$0, 0, 0, 0, 0, \frac{1}{171}\sqrt{21823}e^{12}, \frac{1}{171}\sqrt{5421}e^{13}, \frac{2}{171}\sqrt{278}e^{16} + \frac{1}{57}\sqrt{1390}e^{24},$ $\frac{1}{57}\sqrt{2363}e^{26} + \frac{1}{171}\sqrt{4865}e^{37}$	$(-\frac{13}{57}, \frac{61}{171}, \frac{61}{171}, -\frac{26}{57}, \frac{8}{57}, \frac{22}{171}, \frac{22}{171}, -\frac{17}{171}, \frac{83}{171})$ $+ \frac{7}{171}\sqrt{834}e^2 \otimes e_4$	{1345679, 134679, 14569, 1469, 34, 345, 457, 47, 1345679, 134679, 14569, 1469, 34, 345, 457, 47}
942:182	$0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{10}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{2}{27}\sqrt{15}e^{16} + \frac{2}{27}\sqrt{15}e^{24},$ $\frac{5}{9}\sqrt{2}e^{26} + \frac{1}{27}\sqrt{390}e^{37}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{2}{27}\sqrt{330}e^5 \otimes e_9$	{1239, 1279, 13689, 16789, 23567, 256, 3578, 58, 1239, 1279, 13689, 16789, 23567, 256, 3578, 58}
942:182	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{1}{9}\sqrt{10}e^{13}, \frac{2}{27}\sqrt{15}e^{16} + \frac{2}{27}\sqrt{15}e^{24},$ $\frac{5}{9}\sqrt{2}e^{26} + \frac{1}{27}\sqrt{390}e^{37}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{2}{27}\sqrt{330}e^5 \otimes e_9$	{1239, 1279, 13689, 16789, 23567, 256, 3578, 58, 1239, 1279, 13689, 16789, 23567, 256, 3578, 58}
942:182	$0, 0, 0, 0, 0, -\frac{1}{56}\sqrt{286}e^{12}, \frac{11}{56}\sqrt{2}e^{13}, \frac{1}{28}\sqrt{22}e^{16} + \frac{1}{14}\sqrt{22}e^{24},$ $\frac{1}{56}\sqrt{330}e^{26} + \frac{1}{56}\sqrt{286}e^{37}$	$(-\frac{1}{56}, 0, 0, -\frac{1}{28}, \frac{5}{28}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{28}, -\frac{1}{56})$ $+ \frac{1}{14}\sqrt{19}e^2 \otimes e_4 + \frac{1}{28}\sqrt{122}e^3 \otimes e_8$	{1234569, 123469, 23457, 2347, 1234569, 123469, 23457, 2347}
942:182	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{286}e^{12}, \frac{11}{56}\sqrt{2}e^{13}, \frac{1}{28}\sqrt{22}e^{16} + \frac{1}{14}\sqrt{22}e^{24},$ $\frac{1}{56}\sqrt{330}e^{26} + \frac{1}{56}\sqrt{286}e^{37}$	$(-\frac{1}{56}, 0, 0, -\frac{1}{28}, \frac{5}{28}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{28}, -\frac{1}{56})$ $+ \frac{1}{14}\sqrt{19}e^2 \otimes e_4 + \frac{1}{28}\sqrt{122}e^3 \otimes e_8$	{1234569, 123469, 23457, 2347, 1234569, 123469, 23457, 2347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:182	$0, 0, 0, 0, 0, -\frac{2}{9}\sqrt{5}e^{12}, \frac{2}{9}\sqrt{15}e^{13}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6}e^{24},$ $\frac{2}{9}\sqrt{3}e^{26} + \frac{2}{9}\sqrt{13}e^{37}$	$(0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30}e^3 \otimes e_5$	{123689, 1256789, 139, 1579, 2378, 258, 367, 56, 123689, 1256789, 139, 1579, 2378, 258, 367, 56}
942:182	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{5}e^{12}, \frac{2}{9}\sqrt{15}e^{13}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6}e^{24},$ $\frac{2}{9}\sqrt{3}e^{26} + \frac{2}{9}\sqrt{13}e^{37}$	$(0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30}e^3 \otimes e_5$	{123689, 1256789, 139, 1579, 2378, 258, 367, 56, 123689, 1256789, 139, 1579, 2378, 258, 367, 56}
942:185	$0, 0, 0, 0, 0, \frac{14}{207}\sqrt{6}e^{12}, \frac{7}{69}\sqrt{10}e^{13}, \frac{7}{207}\sqrt{174}e^{16} + \frac{14}{207}\sqrt{41}e^{34},$ $\frac{28}{207}e^{17} + \frac{14}{207}e^{26}$	$(-\frac{7}{69}, \frac{7}{69}, \frac{7}{23}, -\frac{28}{69}, \frac{14}{23}, 0, \frac{14}{69}, -\frac{7}{69}, \frac{7}{69})$ $+ \frac{7}{207}\sqrt{610}e^5 \otimes e_8 + \frac{7}{23}\sqrt{6}e^3 \otimes e_4$	{1238, 24689}
942:185	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{182}e^{12}, \frac{2}{49}\sqrt{13}e^{13}, \frac{2}{49}\sqrt{65}e^{16} + \frac{2}{49}\sqrt{91}e^{34},$ $\frac{1}{49}\sqrt{130}e^{17} + \frac{6}{49}\sqrt{13}e^{26}$	$(\frac{5}{49}, -\frac{1}{49}, -\frac{1}{7}, \frac{16}{49}, -\frac{2}{7}, \frac{4}{49}, -\frac{2}{49}, \frac{9}{49}, \frac{3}{49})$ $+ \frac{1}{49}\sqrt{494}e^2 \otimes e_5 + \frac{5}{49}\sqrt{26}e^4 \otimes e_9$	{129, 2346}
942:185	$0, 0, 0, 0, 0, \frac{4}{227}\sqrt{690}e^{12}, \frac{8}{227}\sqrt{230}e^{13}, \frac{2}{227}\sqrt{6095}e^{16} + \frac{20}{227}\sqrt{23}e^{34},$ $\frac{2}{227}\sqrt{9085}e^{17} + \frac{2}{227}\sqrt{7705}e^{26}$	$(\frac{5}{227}, -\frac{4}{227}, -\frac{13}{227}, \frac{19}{227}, 1, \frac{1}{227}, -\frac{8}{227}, \frac{6}{227}, -\frac{3}{227})$ $+ \frac{4}{227}\sqrt{5405}e^5 \otimes e_9$	{1245678, 157, 23789, 34679}
942:185	$0, 0, 0, 0, 0, \frac{19}{613}\sqrt{286}e^{12}, \frac{133}{613}\sqrt{2}e^{13}, \frac{152}{613}e^{16} + \frac{114}{613}e^{34},$ $\frac{38}{613}\sqrt{35}e^{17} + \frac{38}{613}\sqrt{85}e^{26}$	$(-\frac{19}{613}, \frac{95}{613}, \frac{209}{613}, -\frac{152}{613}, -\frac{266}{613}, \frac{76}{613}, \frac{190}{613}, \frac{57}{613}, \frac{171}{613})$ $+ \frac{19}{613}\sqrt{410}e^3 \otimes e_4 + \frac{19}{613}\sqrt{674}e^2 \otimes e_5$	{1456789, 3578}
942:185	$0, 0, 0, 0, 0, \frac{4}{2633}\sqrt{138374}e^{12}, \frac{10}{2633}\sqrt{74014}e^{13},$ $\frac{2}{2633}\sqrt{577631}e^{16} + \frac{2}{2633}\sqrt{183426}e^{34}, \frac{2}{2633}\sqrt{532579}e^{17} + \frac{2}{2633}\sqrt{255831}e^{26}$	$(-\frac{329}{2633}, \frac{634}{2633}, \frac{1597}{2633}, -\frac{1621}{2633}, \frac{449}{2633}, \frac{305}{2633}, \frac{1268}{2633}, -\frac{24}{2633}, \frac{939}{2633})$ $+ \frac{4}{2633}\sqrt{878514}e^3 \otimes e_4$	{1457, 147, 35679, 3679}
942:185	$0, 0, 0, 0, 0, \frac{4}{227}\sqrt{690}e^{12}, \frac{2}{227}\sqrt{9085}e^{13}, \frac{2}{227}\sqrt{6095}e^{16} + \frac{2}{227}\sqrt{7705}e^{34},$ $\frac{8}{227}\sqrt{230}e^{17} + \frac{20}{227}\sqrt{23}e^{26}$	$(\frac{5}{227}, \frac{43}{227}, \frac{81}{227}, -\frac{28}{227}, -\frac{149}{227}, \frac{48}{227}, \frac{86}{227}, \frac{53}{227}, \frac{91}{227})$ $+ \frac{4}{227}\sqrt{5405}e^3 \otimes e_5$	{1245678, 157, 23789, 34679}
942:185	$0, 0, 0, 0, 0, \frac{4}{2721}\sqrt{78062}e^{12}, \frac{6}{907}\sqrt{3394}e^{13},$ $\frac{2}{2721}\sqrt{392007}e^{16} + \frac{2}{2721}\sqrt{1761486}e^{34}, \frac{2}{2721}\sqrt{195155}e^{17} + \frac{2}{907}\sqrt{39031}e^{26}$	$(\frac{599}{2721}, \frac{38}{907}, -\frac{371}{2721}, \frac{561}{907}, -\frac{1711}{2721}, \frac{713}{907}, \frac{76}{907}, \frac{1312}{2721}, \frac{827}{2721})$ $+ \frac{4}{2721}\sqrt{940138}e^4 \otimes e_5$	{1259, 14689, 2346, 358}
942:185	$0, 0, 0, 0, 0, \frac{14}{941}\sqrt{154}e^{12}, \frac{112}{941}\sqrt{19}e^{13}, \frac{28}{941}\sqrt{91}e^{16} + \frac{14}{941}\sqrt{402}e^{34},$ $\frac{14}{941}\sqrt{694}e^{17} + \frac{28}{941}\sqrt{57}e^{26}$	$(-\frac{14}{941}, \frac{112}{941}, \frac{238}{941}, -\frac{154}{941}, -\frac{406}{941}, \frac{98}{941}, \frac{224}{941}, \frac{84}{941}, \frac{210}{941})$ $+ \frac{42}{941}\sqrt{222}e^1 \otimes e_5 + \frac{56}{941}\sqrt{87}e^3 \otimes e_4$	{1467, 3579}
942:185	$0, 0, 0, 0, 0, \frac{19}{1945}\sqrt{482}e^{12}, \frac{19}{1945}\sqrt{685}e^{13},$ $\frac{38}{1945}\sqrt{317}e^{16} + \frac{19}{1945}\sqrt{1491}e^{34}, \frac{38}{1945}\sqrt{277}e^{17} + \frac{323}{1945}\sqrt{3}e^{26}$	$(\frac{152}{1945}, -\frac{19}{1945}, -\frac{38}{389}, \frac{95}{389}, -\frac{551}{1945}, \frac{133}{1945}, -\frac{38}{1945}, \frac{57}{389}, \frac{114}{1945})$ $+ \frac{19}{1945}\sqrt{2094}e^4 \otimes e_9 + \frac{57}{1945}\sqrt{161}e^3 \otimes e_5$	{1245678, 23789}
942:185	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{34}e^{12}, \frac{1}{43}\sqrt{646}e^{13}, \frac{2}{43}\sqrt{187}e^{16} + \frac{3}{43}\sqrt{34}e^{34},$ $\frac{1}{43}\sqrt{646}e^{17} + \frac{3}{43}\sqrt{34}e^{26}$	$(\frac{5}{43}, \frac{7}{86}, \frac{2}{43}, \frac{23}{86}, -\frac{29}{43}, \frac{17}{86}, \frac{7}{86}, \frac{27}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^1 \otimes e_5$	{1278, 1467, 23456789, 3579}
942:185	$0, 0, 0, 0, 0, \frac{4}{541}\sqrt{13702}e^{12}, \frac{2}{541}\sqrt{16133}e^{13},$ $\frac{2}{541}\sqrt{1105}e^{16} + \frac{34}{541}\sqrt{39}e^{34}, \frac{26}{541}\sqrt{170}e^{17} + \frac{2}{541}\sqrt{49062}e^{26}$	$(\frac{35}{541}, \frac{71}{541}, \frac{107}{541}, \frac{34}{541}, -\frac{371}{541}, \frac{106}{541}, \frac{142}{541}, \frac{141}{541}, \frac{177}{541})$ $+ \frac{2}{541}\sqrt{25194}e^2 \otimes e_5$	{123789, 1345679, 24678, 57}
942:185	$0, 0, 0, 0, 0, \frac{10}{533}\sqrt{34}e^{12}, \frac{160}{533}e^{13}, \frac{20}{533}\sqrt{53}e^{16} + \frac{10}{533}\sqrt{438}e^{34},$ $\frac{10}{533}\sqrt{670}e^{17} + \frac{38}{533}\sqrt{3}e^{26}$	$(\frac{70}{533}, -\frac{20}{533}, -\frac{110}{533}, \frac{230}{533}, -\frac{10}{41}, \frac{50}{533}, -\frac{40}{533}, \frac{120}{533}, \frac{30}{533})$ $+ \frac{30}{533}\sqrt{86}e^1 \otimes e_5 + \frac{40}{533}\sqrt{69}e^4 \otimes e_9$	{13689, 458}
942:185	$0, 0, 0, 0, 0, \frac{64}{953}\sqrt{35}e^{12}, \frac{32}{953}\sqrt{274}e^{13}, \frac{320}{953}\sqrt{2}e^{16} + \frac{16}{953}\sqrt{30}e^{34},$ $\frac{16}{953}\sqrt{970}e^{17} + \frac{16}{953}\sqrt{690}e^{26}$	$(-\frac{80}{953}, \frac{64}{953}, \frac{208}{953}, -\frac{304}{953}, \frac{560}{953}, -\frac{16}{953}, \frac{128}{953}, -\frac{96}{953}, \frac{48}{953})$ $+ \frac{32}{953}\sqrt{393}e^3 \otimes e_4 + \frac{48}{953}\sqrt{206}e^5 \otimes e_9$	{1245678, 23789}
942:185	$0, 0, 0, 0, 0, \frac{4}{2729}\sqrt{49166}e^{12}, \frac{4}{2729}\sqrt{26962}e^{13},$ $\frac{2}{2729}\sqrt{741455}e^{16} + \frac{28}{2729}\sqrt{4758}e^{34}, \frac{2}{2729}\sqrt{800137}e^{17} + \frac{2}{2729}\sqrt{701805}e^{26}$	$(\frac{439}{2729}, -\frac{236}{2729}, -\frac{911}{2729}, \frac{1553}{2729}, \frac{401}{2729}, \frac{203}{2729}, -\frac{472}{2729}, \frac{642}{2729}, -\frac{33}{2729})$ $+ \frac{4}{2729}\sqrt{461526}e^4 \otimes e_9$	{1245678, 124678, 235789, 23789}
942:185	$0, 0, 0, 0, 0, \frac{10}{207}\sqrt{3}e^{12}, \frac{10}{69}\sqrt{2}e^{13}, \frac{5}{207}\sqrt{114}e^{16} + \frac{10}{207}\sqrt{119}e^{34},$ $\frac{55}{207}\sqrt{2}e^{17} + \frac{10}{207}\sqrt{59}e^{26}$	$(\frac{5}{69}, -\frac{5}{69}, -\frac{5}{23}, \frac{20}{69}, \frac{10}{23}, 0, -\frac{10}{69}, \frac{5}{69}, -\frac{5}{69})$ $+ \frac{5}{207}\sqrt{406}e^5 \otimes e_8 + \frac{5}{69}\sqrt{78}e^4 \otimes e_9$	{13457, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:185	$0, 0, 0, 0, 0, \frac{8}{99}\sqrt{51}e^{12}, \frac{2}{33}\sqrt{119}e^{13}, \frac{2}{99}\sqrt{1785}e^{16} + \frac{34}{99}\sqrt{5}e^{34},$ $\frac{8}{99}\sqrt{34}e^{17} + \frac{4}{99}\sqrt{34}e^{26}$	$(-\frac{1}{33}, \frac{1}{33}, \frac{1}{11}, -\frac{4}{33}, 1, 0, \frac{2}{33}, -\frac{1}{33}, \frac{1}{33})$ $+\frac{4}{99}\sqrt{1054}e^5 \otimes e_8$	{1248, 156, 23689, 3459}
942:186	$0, 0, 0, 0, 0, -\frac{13}{277}\sqrt{14}e^{12}, \frac{13}{277}\sqrt{106}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{22}e^{34},$ $\frac{26}{277}\sqrt{13}e^{26} + \frac{156}{277}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{182}{277}e^5 \otimes e_8 + \frac{91}{277}\sqrt{6}e^3 \otimes e_4$	{123569, 1245679, 2357, 245, 123569, 1245679, 2357, 245}
942:186	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14}e^{12}, \frac{13}{277}\sqrt{106}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{22}e^{34},$ $\frac{26}{277}\sqrt{13}e^{26} + \frac{156}{277}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{182}{277}e^5 \otimes e_8 + \frac{91}{277}\sqrt{6}e^3 \otimes e_4$	{123569, 1245679, 2357, 245, 123569, 1245679, 2357, 245}
942:186	$0, 0, 0, 0, 0, -\frac{1}{174}\sqrt{8018}e^{16} + \frac{1}{174}\sqrt{32494}e^{34}, \frac{1}{348}\sqrt{40934}e^{26} + \frac{1}{348}\sqrt{40090}e^{37},$ $-\frac{348}{174}\sqrt{24898}e^{12}, \frac{1}{348}\sqrt{24054}e^{13},$	$(\frac{97}{348}, -\frac{3}{58}, -\frac{3}{58}, \frac{97}{174}, -\frac{19}{29}, \frac{79}{348}, \frac{79}{348}, \frac{44}{87}, \frac{61}{348})$ $+\frac{2}{29}\sqrt{422}e^4 \otimes e_5$	{123479, 1259, 1356789, 14689, 2346, 2567, 358, 478, 123479, 1259, 1356789, 14689, 2346, 2567, 358, 478}
942:186	$0, 0, 0, 0, 0, \frac{1}{174}\sqrt{8018}e^{16} + \frac{1}{174}\sqrt{32494}e^{34}, \frac{1}{348}\sqrt{40934}e^{26} + \frac{1}{348}\sqrt{40090}e^{37},$ $-\frac{348}{174}\sqrt{24898}e^{12}, \frac{1}{348}\sqrt{24054}e^{13},$	$(\frac{97}{348}, -\frac{3}{58}, -\frac{3}{58}, \frac{97}{174}, -\frac{19}{29}, \frac{79}{348}, \frac{79}{348}, \frac{44}{87}, \frac{61}{348})$ $+\frac{2}{29}\sqrt{422}e^4 \otimes e_5$	{123479, 1259, 1356789, 14689, 2346, 2567, 358, 478, 123479, 1259, 1356789, 14689, 2346, 2567, 358, 478}
942:186	$0, 0, 0, 0, 0, -\frac{2}{9}\sqrt{13}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{2}{9}\sqrt{15}e^{26} + \frac{2}{9}\sqrt{5}e^{37}$	$(0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9})$ $+\frac{2}{9}\sqrt{30}e^2 \otimes e_5$	{123479, 129, 1356789, 145689, 2346, 267, 358, 4578, 123479, 129, 1356789, 145689, 2346, 267, 358, 4578}
942:186	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{13}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{2}{9}\sqrt{15}e^{26} + \frac{2}{9}\sqrt{5}e^{37}$	$(0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9})$ $+\frac{2}{9}\sqrt{30}e^2 \otimes e_5$	{123479, 129, 1356789, 145689, 2346, 267, 358, 4578, 123479, 129, 1356789, 145689, 2346, 267, 358, 4578}
942:186	$0, 0, 0, 0, 0, -\frac{5}{233}\sqrt{385}e^{12}, \frac{5}{233}\sqrt{165}e^{13}, \frac{10}{233}\sqrt{55}e^{16} + \frac{10}{233}\sqrt{55}e^{34},$ $\frac{25}{233}\sqrt{11}e^{26} + \frac{25}{233}\sqrt{11}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1010}e^1 \otimes e_5 + \frac{5}{233}\sqrt{1010}e^4 \otimes e_9$	{12389, 1679, 24568, 3457, 12389, 1679, 24568, 3457}
942:186	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{385}e^{12}, \frac{5}{233}\sqrt{165}e^{13}, \frac{10}{233}\sqrt{55}e^{16} + \frac{10}{233}\sqrt{55}e^{34},$ $\frac{25}{233}\sqrt{11}e^{26} + \frac{25}{233}\sqrt{11}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1010}e^1 \otimes e_5 + \frac{5}{233}\sqrt{1010}e^4 \otimes e_9$	{12389, 1679, 24568, 3457, 12389, 1679, 24568, 3457}
942:186	$0, 0, 0, 0, 0, -\frac{2}{87}\sqrt{213}e^{12}, \frac{10}{87}\sqrt{3}e^{13}, \frac{4}{29}\sqrt{5}e^{16} + \frac{14}{87}\sqrt{6}e^{34},$ $\frac{2}{29}\sqrt{47}e^{26} + \frac{2}{29}\sqrt{5}e^{37}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{10}{29}, \frac{2}{29}, \frac{2}{29}, \frac{6}{29}, 0)$ $+\frac{2}{87}\sqrt{462}e^2 \otimes e_5 + \frac{8}{87}\sqrt{30}e^4 \otimes e_9$	{129, 1356789, 2346, 4578, 129, 1356789, 2346, 4578}
942:186	$0, 0, 0, 0, 0, \frac{2}{87}\sqrt{213}e^{12}, \frac{10}{87}\sqrt{3}e^{13}, \frac{4}{29}\sqrt{5}e^{16} + \frac{14}{87}\sqrt{6}e^{34},$ $\frac{2}{29}\sqrt{47}e^{26} + \frac{2}{29}\sqrt{5}e^{37}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29}, -\frac{10}{29}, \frac{2}{29}, \frac{2}{29}, \frac{6}{29}, 0)$ $+\frac{2}{87}\sqrt{462}e^2 \otimes e_5 + \frac{8}{87}\sqrt{30}e^4 \otimes e_9$	{129, 1356789, 2346, 4578, 129, 1356789, 2346, 4578}
942:186	$0, 0, 0, 0, 0, -\frac{1}{7}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{102}e^{13}, \frac{2}{21}\sqrt{6}e^{16} + \frac{2}{7}e^{34},$ $\frac{1}{21}\sqrt{66}e^{26} + \frac{1}{7}\sqrt{10}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+\frac{2}{21}\sqrt{51}e^2 \otimes e_5 + \frac{4}{21}\sqrt{15}e^3 \otimes e_4$	{1239, 12479, 2367, 246, 1239, 12479, 2367, 246}
942:186	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{102}e^{13}, \frac{2}{21}\sqrt{6}e^{16} + \frac{2}{7}e^{34},$ $\frac{1}{21}\sqrt{66}e^{26} + \frac{1}{7}\sqrt{10}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+\frac{2}{21}\sqrt{51}e^2 \otimes e_5 + \frac{4}{21}\sqrt{15}e^3 \otimes e_4$	{1239, 12479, 2367, 246, 1239, 12479, 2367, 246}
942:186	$0, 0, 0, 0, 0, -\frac{1}{171}\sqrt{4865}e^{12}, \frac{1}{57}\sqrt{2363}e^{13}, \frac{2}{171}\sqrt{278}e^{16} + \frac{1}{57}\sqrt{1390}e^{34},$ $\frac{1}{171}\sqrt{5421}e^{26} + \frac{1}{171}\sqrt{21823}e^{37}$	$(-\frac{13}{57}, \frac{61}{171}, \frac{61}{171}, -\frac{26}{57}, \frac{8}{57}, \frac{22}{171}, \frac{22}{171}, -\frac{17}{171}, \frac{83}{171})$ $+\frac{7}{171}\sqrt{834}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 2357, 237, 24, 245, 123569, 12369, 1245679, 124679, 2357, 237, 24, 245}
942:186	$0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4865}e^{12}, \frac{1}{57}\sqrt{2363}e^{13}, \frac{2}{171}\sqrt{278}e^{16} + \frac{1}{57}\sqrt{1390}e^{34},$ $\frac{1}{171}\sqrt{5421}e^{26} + \frac{1}{171}\sqrt{21823}e^{37}$	$(-\frac{13}{57}, \frac{61}{171}, \frac{61}{171}, -\frac{26}{57}, \frac{8}{57}, \frac{22}{171}, \frac{22}{171}, -\frac{17}{171}, \frac{83}{171})$ $+\frac{7}{171}\sqrt{834}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 2357, 237, 24, 245, 123569, 12369, 1245679, 124679, 2357, 237, 24, 245}
942:186	$0, 0, 0, 0, 0, -\frac{2}{27}\sqrt{15}e^{12}, \frac{2}{27}\sqrt{30}e^{13}, \frac{2}{27}\sqrt{15}e^{16} + \frac{2}{27}\sqrt{15}e^{34},$ $\frac{2}{27}\sqrt{105}e^{26} + \frac{2}{27}\sqrt{105}e^{37}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9})$ $+\frac{2}{27}\sqrt{330}e^5 \otimes e_9$	{1239, 12479, 134689, 16789, 23567, 2456, 34578, 58, 1239, 12479, 134689, 16789, 23567, 2456, 34578, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:186	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{15}e^{12}, \frac{2}{27}\sqrt{30}e^{13}, \frac{2}{27}\sqrt{15}e^{16} + \frac{2}{27}\sqrt{15}e^{34},$ $\frac{2}{27}\sqrt{105}e^{26} + \frac{2}{27}\sqrt{105}e^{37}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 1, 0, 0, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{2}{27}\sqrt{330}e^5 \otimes e_9$	{1239, 12479, 134689, 16789, 23567, 2456, 34578, 58, 1239, 12479, 134689, 16789, 23567, 2456, 34578, 58}
942:188	$0, 0, 0, 0, 0, \frac{11}{265}\sqrt{122}e^{12}, \frac{11}{265}\sqrt{158}e^{13}, \frac{22}{265}\sqrt{17}e^{26} + \frac{11}{265}\sqrt{206}e^{34},$ $\frac{11}{265}\sqrt{206}e^{16} + \frac{11}{265}\sqrt{10}e^{37}$	$(-\frac{11}{53}, \frac{77}{265}, \frac{11}{265}, \frac{88}{265}, -\frac{44}{265}, \frac{22}{265}, -\frac{44}{265}, \frac{99}{265}, -\frac{33}{265})$ $+ \frac{11}{265}\sqrt{322}e^4 \otimes e_9 + \frac{22}{265}\sqrt{37}e^2 \otimes e_5$	{129, 4578}
942:188	$0, 0, 0, 0, 0, \frac{37}{4681}\sqrt{1362}e^{12}, \frac{37}{4681}\sqrt{3274}e^{13},$ $\frac{148}{4681}\sqrt{113}e^{26} + \frac{37}{4681}\sqrt{5142}e^{34}, \frac{37}{4681}\sqrt{4130}e^{16} + \frac{37}{4681}\sqrt{982}e^{37}$	$(-\frac{703}{4681}, \frac{629}{4681}, -\frac{37}{4681}, \frac{592}{4681}, \frac{1924}{4681}, -\frac{74}{4681}, -\frac{740}{4681}, \frac{555}{4681}, -\frac{777}{4681})$ $+ \frac{37}{4681}\sqrt{5514}e^4 \otimes e_9 + \frac{74}{4681}\sqrt{759}e^5 \otimes e_8$	{1259, 478}
942:188	$0, 0, 0, 0, 0, \frac{31}{4705}\sqrt{2262}e^{12}, \frac{31}{4705}\sqrt{2482}e^{13},$ $\frac{62}{941}\sqrt{29}e^{26} + \frac{93}{4705}\sqrt{462}e^{34}, \frac{31}{4705}\sqrt{5330}e^{16} + \frac{31}{4705}\sqrt{1198}e^{37}$	$(-\frac{403}{4705}, \frac{713}{4705}, \frac{31}{4705}, \frac{868}{4705}, -\frac{1364}{4705}, \frac{62}{4705}, -\frac{248}{4705}, \frac{1023}{4705}, -\frac{93}{4705})$ $+ \frac{31}{4705}\sqrt{5106}e^4 \otimes e_9 + \frac{62}{4705}\sqrt{879}e^1 \otimes e_5$	{129, 4578}
942:188	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{20919}e^{12}, \frac{4}{659}\sqrt{4771}e^{13},$ $\frac{14}{659}\sqrt{1101}e^{26} + \frac{2}{659}\sqrt{73033}e^{34}, \frac{2}{659}\sqrt{6973}e^{16} + \frac{2}{659}\sqrt{12111}e^{37}$	$(\frac{95}{659}, -\frac{85}{659}, \frac{5}{659}, -\frac{80}{659}, 1, \frac{10}{659}, \frac{100}{659}, -\frac{75}{659}, \frac{105}{659})$ $+ \frac{12}{659}\sqrt{5505}e^5 \otimes e_8$	{123789, 12489, 345, 57}
942:188	$0, 0, 0, 0, 0, \frac{6}{815}\sqrt{74}e^{12}, \frac{2}{815}\sqrt{681}e^{13}, \frac{6}{815}\sqrt{51}e^{26} + \frac{2}{815}\sqrt{1347}e^{34},$ $\frac{2}{815}\sqrt{1347}e^{16} + \frac{2}{815}\sqrt{114}e^{37}$	$(-\frac{1}{163}, -\frac{3}{815}, -\frac{4}{815}, -\frac{7}{815}, \frac{66}{815}, -\frac{8}{815}, -\frac{9}{815}, -\frac{11}{815}, -\frac{13}{815})$ $+ \frac{2}{815}\sqrt{1119}e^1 \otimes e_8 + \frac{4}{815}\sqrt{282}e^4 \otimes e_9$	{1259, 129, 4578, 478}
942:188	$0, 0, 0, 0, 0, \frac{6}{815}\sqrt{74}e^{12}, \frac{2}{815}\sqrt{681}e^{13}, \frac{6}{815}\sqrt{51}e^{26} + \frac{2}{815}\sqrt{1347}e^{34},$ $\frac{2}{815}\sqrt{1347}e^{16} + \frac{4}{815}\sqrt{114}e^{37}$	$(-\frac{1}{163}, -\frac{3}{815}, -\frac{4}{815}, -\frac{7}{815}, \frac{66}{815}, -\frac{8}{815}, -\frac{9}{815}, -\frac{11}{815}, -\frac{13}{815})$ $- \frac{2}{815}\sqrt{1119}e^1 \otimes e_8 + \frac{4}{815}\sqrt{282}e^4 \otimes e_9$	{1259, 129, 4578, 478}
942:188	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{37}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{1}{29}, \frac{7}{29}, -\frac{7}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_5 - \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{134689, 156789, 2367, 2456}
942:188	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13}, \frac{8}{29}\sqrt{2}e^{26} + \frac{2}{29}\sqrt{14}e^{34},$ $\frac{4}{29}\sqrt{2}e^{16} + \frac{2}{29}\sqrt{46}e^{37}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{1}{29}, \frac{7}{29}, -\frac{7}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{8}{29}, -\frac{2}{29})$ $+ \frac{2}{29}\sqrt{42}e^3 \otimes e_5 + \frac{4}{29}\sqrt{15}e^2 \otimes e_9$	{134689, 156789, 2367, 2456}
942:188	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13}e^{12}, \frac{2}{29}\sqrt{26}e^{13}, \frac{2}{29}\sqrt{39}e^{26} + \frac{2}{29}\sqrt{39}e^{34},$ $\frac{2}{29}\sqrt{143}e^{16} + \frac{2}{29}\sqrt{39}e^{37}$	$(\frac{7}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{19}{29}, \frac{6}{29}, \frac{10}{29}, \frac{5}{29}, \frac{13}{29})$ $+ \frac{4}{29}\sqrt{78}e^1 \otimes e_5$	{1346, 167, 2356789, 245689}
942:188	$0, 0, 0, 0, 0, \frac{51}{1981}\sqrt{130}e^{12}, \frac{170}{1981}\sqrt{38}e^{13},$ $\frac{17}{1981}\sqrt{2038}e^{26} + \frac{102}{1981}\sqrt{85}e^{34}, \frac{17}{1981}\sqrt{2986}e^{16} + \frac{17}{1981}\sqrt{3410}e^{37}$	$(\frac{323}{1981}, -\frac{289}{1981}, \frac{17}{1981}, -\frac{272}{1981}, \frac{34}{1981}, \frac{34}{1981}, \frac{340}{1981}, -\frac{255}{1981}, \frac{51}{283})$ $+ \frac{17}{1981}\sqrt{222}e^5 \otimes e_8 + \frac{17}{1981}\sqrt{3894}e^3 \otimes e_4$	{12369, 124679}
942:188	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{5190}e^{12}, \frac{2}{311}\sqrt{12283}e^{13},$ $\frac{2}{311}\sqrt{10553}e^{26} + \frac{2}{311}\sqrt{17473}e^{34}, \frac{2}{311}\sqrt{17473}e^{16} + \frac{4}{311}\sqrt{10726}e^{37}$	$(-\frac{82}{311}, \frac{100}{311}, \frac{9}{311}, \frac{109}{311}, \frac{38}{311}, \frac{18}{311}, -\frac{73}{311}, \frac{118}{311}, -\frac{64}{311})$ $+ \frac{1}{311}\sqrt{94458}e^4 \otimes e_9$	{1259, 129, 4578, 478}
942:188	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{2}e^{12}, \frac{16}{41}\sqrt{5}e^{13}, \frac{8}{41}\sqrt{7}e^{26} + \frac{4}{41}\sqrt{6}e^{34},$ $\frac{8}{41}\sqrt{13}e^{16} + \frac{4}{41}\sqrt{74}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_5$	{12369, 1245679, 34678, 568}
942:188	$0, 0, 0, 0, 0, \frac{16}{665}\sqrt{183}e^{12}, \frac{16}{665}\sqrt{118}e^{13}, \frac{16}{665}\sqrt{57}e^{26} + \frac{32}{665}\sqrt{85}e^{34},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{37}$	$(\frac{104}{665}, -\frac{64}{665}, \frac{4}{133}, -\frac{44}{665}, -\frac{172}{665}, \frac{8}{133}, \frac{124}{665}, -\frac{24}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^4 \otimes e_5 + \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{123479, 1259, 358, 478}
942:188	$0, 0, 0, 0, 0, \frac{16}{665}\sqrt{183}e^{12}, \frac{16}{665}\sqrt{118}e^{13}, \frac{16}{665}\sqrt{57}e^{26} + \frac{32}{665}\sqrt{85}e^{34},$ $\frac{16}{665}\sqrt{262}e^{16} + \frac{96}{665}\sqrt{5}e^{37}$	$(\frac{104}{665}, -\frac{64}{665}, \frac{4}{133}, -\frac{44}{665}, -\frac{172}{665}, \frac{8}{133}, \frac{124}{665}, -\frac{24}{665}, \frac{144}{665})$ $+ \frac{48}{665}\sqrt{26}e^4 \otimes e_5 - \frac{48}{665}\sqrt{41}e^1 \otimes e_8$	{123479, 1259, 358, 478}
942:188	$0, 0, 0, 0, 0, \frac{16}{613}\sqrt{498}e^{12}, \frac{4}{613}\sqrt{16351}e^{13},$ $\frac{4}{613}\sqrt{13695}e^{26} + \frac{8}{613}\sqrt{7885}e^{34}, \frac{4}{613}\sqrt{17098}e^{16} + \frac{4}{613}\sqrt{13695}e^{37}$	$(-\frac{14}{613}, \frac{160}{613}, \frac{73}{613}, \frac{233}{613}, -\frac{431}{613}, \frac{146}{613}, \frac{59}{613}, \frac{306}{613}, \frac{132}{613})$ $+ \frac{12}{613}\sqrt{4814}e^4 \otimes e_5$	{123479, 1259, 358, 478}
942:188	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{20919}e^{12}, \frac{4}{659}\sqrt{4771}e^{13},$ $\frac{2}{659}\sqrt{12111}e^{26} + \frac{2}{659}\sqrt{6973}e^{34}, \frac{2}{659}\sqrt{73033}e^{16} + \frac{14}{659}\sqrt{1101}e^{37}$	$(-\frac{85}{659}, \frac{95}{659}, \frac{5}{659}, \frac{100}{659}, 1, \frac{10}{659}, -\frac{80}{659}, \frac{105}{659}, -\frac{75}{659})$ $+ \frac{12}{659}\sqrt{5505}e^5 \otimes e_9$	{134567, 156, 23689, 246789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:188	$0, 0, 0, 0, 0, \frac{38}{3133}\sqrt{357e^{12}}, \frac{19}{3133}\sqrt{4706e^{13}}, \frac{38}{3133}\sqrt{643e^{26}} + \frac{76}{3133}\sqrt{237e^{34}}, \frac{19}{3133}\sqrt{3502e^{16}} + \frac{38}{3133}\sqrt{1130e^{37}}$	$(\frac{323}{3133}, -\frac{361}{3133}, -\frac{19}{3133}, -\frac{380}{3133}, \frac{646}{3133}, -\frac{38}{3133}, \frac{304}{3133}, -\frac{399}{3133}, \frac{285}{3133}) + \frac{19}{3133}\sqrt{4974e^3} \otimes e_4 + \frac{19}{3133}\sqrt{870e^5} \otimes e_9$	{12369, 124679}
942:188	$0, 0, 0, 0, 0, \frac{24}{407}\sqrt{10e^{12}}, \frac{32}{407}\sqrt{7e^{13}}, \frac{16}{407}\sqrt{71e^{26}} + \frac{8}{407}\sqrt{606e^{34}}, \frac{16}{407}\sqrt{101e^{16}} + \frac{8}{407}\sqrt{206e^{37}}$	$(-\frac{56}{407}, \frac{8}{37}, \frac{16}{407}, \frac{104}{407}, -\frac{112}{407}, \frac{32}{407}, -\frac{40}{407}, \frac{120}{407}, -\frac{24}{407}) + \frac{8}{407}\sqrt{606e^3} \otimes e_5 + \frac{96}{407}\sqrt{6e^4} \otimes e_9$	{13467, 23689}
942:188	$0, 0, 0, 0, 0, \frac{34}{1981}\sqrt{454e^{26}} + \frac{34}{1981}\sqrt{654e^{34}}, \frac{34}{1981}\sqrt{237e^{12}}, \frac{34}{1981}\sqrt{839e^{13}}, \frac{17}{1981}\sqrt{2542e^{16}} + \frac{17}{1981}\sqrt{2966e^{37}}$	$(\frac{323}{1981}, -\frac{289}{1981}, \frac{17}{1981}, -\frac{272}{1981}, \frac{34}{1981}, \frac{34}{1981}, \frac{340}{1981}, -\frac{255}{1981}, \frac{51}{283}) + \frac{17}{1981}\sqrt{222e^1} \otimes e_5 + \frac{85}{1981}\sqrt{138e^3} \otimes e_4$	{12369, 124679}
942:188	$0, 0, 0, 0, 0, \frac{36}{589}\sqrt{22e^{12}}, \frac{92}{589}\sqrt{11e^{13}}, \frac{4}{589}\sqrt{3223e^{26}} + \frac{44}{589}\sqrt{38e^{34}}, \frac{44}{589}\sqrt{38e^{16}} + \frac{20}{589}\sqrt{209e^{37}}$	$(\frac{94}{589}, -\frac{88}{589}, \frac{3}{589}, -\frac{85}{589}, \frac{43}{589}, \frac{6}{589}, \frac{97}{589}, -\frac{82}{589}, \frac{100}{589}) + \frac{4}{589}\sqrt{6006e^3} \otimes e_4$	{123569, 12369, 1245679, 124679}
942:188	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13e^{12}}, \frac{2}{29}\sqrt{26e^{13}}, \frac{26}{29}e^{26} + \frac{2}{29}\sqrt{65e^{34}}, \frac{2}{29}\sqrt{65e^{16}} + \frac{2}{29}\sqrt{65e^{37}}$	$(-\frac{1}{29}, \frac{7}{29}, \frac{3}{29}, \frac{10}{29}, -\frac{19}{29}, \frac{6}{29}, \frac{2}{29}, \frac{13}{29}, \frac{5}{29}) + \frac{4}{29}\sqrt{78e^2} \otimes e_5$	{1345689, 156789, 2367, 246}
942:188	$0, 0, 0, 0, 0, \frac{5}{349}\sqrt{102e^{12}}, \frac{5}{349}\sqrt{498e^{13}}, \frac{10}{349}\sqrt{86e^{26}} + \frac{10}{349}\sqrt{105e^{34}}, \frac{10}{349}\sqrt{105e^{16}} + \frac{20}{349}\sqrt{29e^{37}}$	$(\frac{35}{349}, -\frac{25}{349}, \frac{5}{349}, -\frac{20}{349}, -\frac{50}{349}, \frac{10}{349}, \frac{40}{349}, -\frac{15}{349}, \frac{45}{349}) + \frac{5}{349}\sqrt{146e^2} \otimes e_5 + \frac{5}{349}\sqrt{506e^3} \otimes e_4$	{12369, 124679}
942:190	$0, 0, 0, 0, 0, \frac{2}{1239}\sqrt{111397e^{12}}, \frac{19}{1239}\sqrt{1230e^{13}}, \frac{1}{1239}\sqrt{1142014e^{16}}, \frac{1}{1239}\sqrt{637222e^{17}} + \frac{38}{1239}\sqrt{287e^{26}} + \frac{2}{1239}\sqrt{248501e^{45}}$	$(-\frac{23}{177}, \frac{48}{413}, \frac{449}{1239}, \frac{601}{1239}, -\frac{158}{413}, -\frac{17}{1239}, \frac{96}{413}, -\frac{178}{1239}, \frac{127}{1239}) + \frac{5}{1239}\sqrt{66994e^4} \otimes e_8$	{128, 1456, 235689, 349}
942:190	$0, 0, 0, 0, 0, \frac{38}{649}\sqrt{2e^{12}}, \frac{38}{649}\sqrt{155e^{13}}, \frac{38}{649}\sqrt{186e^{16}}, \frac{57}{649}\sqrt{14e^{17}} + \frac{19}{649}\sqrt{130e^{26}} + \frac{19}{59}\sqrt{2e^{45}}$	$(-\frac{190}{649}, \frac{152}{649}, \frac{494}{649}, \frac{57}{649}, \frac{57}{649}, -\frac{38}{649}, \frac{304}{649}, -\frac{228}{649}, \frac{114}{649}) + \frac{19}{649}\sqrt{2126e^3} \otimes e_8$	{14789, 23457, 237}
942:190	$0, 0, 0, 0, 0, \frac{19}{505}\sqrt{2e^{12}}, \frac{19}{505}\sqrt{155e^{13}}, \frac{19}{505}\sqrt{186e^{16}}, \frac{57}{1010}\sqrt{14e^{17}} + \frac{19}{1010}\sqrt{130e^{26}} + \frac{209}{1010}\sqrt{2e^{45}}$	$(-\frac{19}{101}, \frac{76}{505}, \frac{247}{505}, \frac{209}{505}, -\frac{152}{505}, -\frac{19}{505}, \frac{152}{505}, -\frac{114}{505}, \frac{57}{505}) + \frac{19}{1010}\sqrt{2126e^3} \otimes e_8 + \frac{361}{505}e^4 \otimes e_5$	{14789, 15789}
942:190	$0, 0, 0, 0, 0, \frac{32}{3291}\sqrt{985e^{12}}, \frac{32}{3291}\sqrt{831e^{13}}, \frac{32}{3291}\sqrt{1762e^{16}}, \frac{32}{3291}\sqrt{481e^{17}} + \frac{32}{3291}\sqrt{683e^{26}} + \frac{32}{3291}\sqrt{1022e^{45}}$	$(\frac{208}{3291}, -\frac{16}{1097}, -\frac{304}{3291}, \frac{880}{3291}, -\frac{256}{1097}, \frac{160}{3291}, -\frac{32}{1097}, \frac{368}{3291}, \frac{112}{3291}) + \frac{128}{3291}\sqrt{103e^4} \otimes e_8 + \frac{32}{3291}\sqrt{1389e^1} \otimes e_3$	{128, 1456, 235689, 349}
942:190	$0, 0, 0, 0, 0, \frac{4}{2541}\sqrt{68918e^{12}}, \frac{2}{2541}\sqrt{20270e^{13}}, \frac{4}{2541}\sqrt{6081e^{16}}, \frac{8}{2541}\sqrt{2027e^{17}} + \frac{4}{2541}\sqrt{42567e^{26}} + \frac{4}{2541}\sqrt{279726e^{45}}$	$(\frac{164}{2541}, \frac{14}{121}, \frac{424}{2541}, \frac{801}{847}, -\frac{1651}{2541}, \frac{458}{2541}, \frac{28}{121}, \frac{622}{2541}, \frac{752}{2541}) + \frac{4054}{2541}e^4 \otimes e_5$	{123489, 123589, 13469, 13569}
942:190	$0, 0, 0, 0, 0, \frac{32}{3291}\sqrt{985e^{12}}, \frac{32}{3291}\sqrt{831e^{13}}, \frac{32}{3291}\sqrt{1762e^{16}}, \frac{32}{3291}\sqrt{481e^{17}} + \frac{32}{3291}\sqrt{683e^{26}} + \frac{32}{3291}\sqrt{1022e^{45}}$	$(\frac{208}{3291}, -\frac{16}{1097}, -\frac{304}{3291}, \frac{880}{3291}, -\frac{256}{1097}, \frac{160}{3291}, -\frac{32}{1097}, \frac{368}{3291}, \frac{112}{3291}) + \frac{128}{3291}\sqrt{103e^4} \otimes e_8 - \frac{32}{3291}\sqrt{1389e^1} \otimes e_3$	{128, 1456, 235689, 349}
942:191	$0, 0, 0, 0, 0, -\frac{2}{45}\sqrt{10e^{12}}, \frac{2}{45}\sqrt{94e^{13}}, \frac{4}{45}\sqrt{31e^{16}}, \frac{2}{45}\sqrt{70e^{26}} + \frac{2}{45}\sqrt{158e^{37}} + \frac{4}{45}\sqrt{2e^{45}}$	$(-\frac{4}{15}, \frac{4}{15}, \frac{4}{15}, \frac{2}{5}, -\frac{2}{15}, 0, 0, -\frac{4}{15}, \frac{4}{15}) + \frac{4}{45}\sqrt{83e^3} \otimes e_8 + \frac{8}{15}e^4 \otimes e_5$	{2347, 2357, 468, 568, 2347, 2357, 468, 568}
942:191	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{10e^{12}}, \frac{2}{45}\sqrt{94e^{13}}, \frac{4}{45}\sqrt{31e^{16}}, \frac{2}{45}\sqrt{70e^{26}} + \frac{2}{45}\sqrt{158e^{37}} + \frac{4}{45}\sqrt{2e^{45}}$	$(-\frac{4}{15}, \frac{4}{15}, \frac{4}{15}, \frac{2}{5}, -\frac{2}{15}, 0, 0, -\frac{4}{15}, \frac{4}{15}) + \frac{4}{45}\sqrt{83e^3} \otimes e_8 + \frac{8}{15}e^4 \otimes e_5$	{2347, 2357, 468, 568, 2347, 2357, 468, 568}
942:191	$0, 0, 0, 0, 0, -\frac{10}{869}\sqrt{1382e^{12}}, \frac{4}{869}\sqrt{4837e^{13}}, \frac{4}{869}\sqrt{7601e^{16}}, \frac{6}{869}\sqrt{1382e^{26}} + \frac{4}{869}\sqrt{6910e^{37}} + \frac{4}{869}\sqrt{6910e^{45}}$	$(\frac{56}{869}, \frac{10}{79}, \frac{10}{79}, \frac{829}{869}, -\frac{7}{11}, \frac{166}{869}, \frac{166}{869}, \frac{222}{869}, \frac{276}{869}) + \frac{1382}{869}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679}
942:191	$0, 0, 0, 0, 0, \frac{10}{869}\sqrt{1382e^{12}}, \frac{4}{869}\sqrt{4837e^{13}}, \frac{4}{869}\sqrt{7601e^{16}}, \frac{6}{869}\sqrt{1382e^{26}} + \frac{4}{869}\sqrt{6910e^{37}} + \frac{4}{869}\sqrt{6910e^{45}}$	$(\frac{56}{869}, \frac{10}{79}, \frac{10}{79}, \frac{829}{869}, -\frac{7}{11}, \frac{166}{869}, \frac{166}{869}, \frac{222}{869}, \frac{276}{869}) + \frac{1382}{869}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679, 123489, 123589, 124789, 125789, 13469, 13569, 14679, 15679}
942:191	$0, 0, 0, 0, 0, -\frac{2}{33}\sqrt{10e^{12}}, \frac{2}{33}\sqrt{94e^{13}}, \frac{4}{33}\sqrt{31e^{16}}, \frac{2}{33}\sqrt{70e^{26}} + \frac{2}{33}\sqrt{158e^{37}} + \frac{4}{33}\sqrt{2e^{45}}$	$(-\frac{4}{11}, \frac{4}{11}, \frac{4}{11}, \frac{2}{11}, \frac{2}{11}, 0, 0, -\frac{4}{11}, \frac{4}{11}) + \frac{4}{33}\sqrt{83e^3} \otimes e_8$	{1234569, 12369, 145789, 1789, 2347, 468, 1234569, 12369, 145789, 1789, 2347, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:191	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{10}e^{12}, \frac{2}{33}\sqrt{94}e^{13}, \frac{4}{33}\sqrt{31}e^{16},$ $\frac{2}{33}\sqrt{70}e^{26} + \frac{2}{33}\sqrt{158}e^{37} + \frac{4}{33}\sqrt{2}e^{45}$	$(-\frac{4}{11}, \frac{4}{11}, \frac{4}{11}, \frac{2}{11}, \frac{2}{11}, 0, 0, -\frac{4}{11}, \frac{4}{11})$ $+ \frac{4}{33}\sqrt{83}e^3 \otimes e_8$	{1234569, 12369, 145789, 1789, 2347, 468, 1234569, 12369, 145789, 1789, 2347, 468}
942:193	$0, 0, 0, 0, 0, \frac{2}{831}\sqrt{27678}e^{12}, \frac{2}{831}\sqrt{30314}e^{13}, \frac{4}{831}\sqrt{9885}e^{26},$ $\frac{4}{831}\sqrt{1318}e^{16} + \frac{2}{277}\sqrt{3295}e^{37} + \frac{2}{277}\sqrt{3295}e^{45}$	$(\frac{92}{831}, \frac{70}{831}, \frac{27}{277}, \frac{262}{277}, -\frac{532}{831}, \frac{54}{277}, \frac{173}{831}, \frac{232}{831}, \frac{254}{831})$ $+ \frac{1318}{831}e^4 \otimes e_5$	{134689, 135689, 146789, 156789}
942:193	$0, 0, 0, 0, 0, \frac{80}{3779}\sqrt{114}e^{12}, \frac{120}{3779}\sqrt{201}e^{13}, \frac{40}{3779}\sqrt{1657}e^{26},$ $\frac{80}{3779}\sqrt{398}e^{16} + \frac{40}{3779}\sqrt{1610}e^{37} + \frac{40}{3779}\sqrt{141}e^{45}$	$(\frac{680}{3779}, -\frac{760}{3779}, -\frac{40}{3779}, \frac{700}{3779}, -\frac{100}{3779}, -\frac{80}{3779}, \frac{640}{3779}, \frac{840}{3779}, \frac{600}{3779})$ $+ \frac{40}{3779}\sqrt{2938}e^3 \otimes e_8 + \frac{800}{3779}e^4 \otimes e_5$	{123469, 123569}
942:193	$0, 0, 0, 0, 0, \frac{7}{1157}\sqrt{1006}e^{12}, \frac{49}{1157}\sqrt{2}e^{13}, \frac{7}{1157}\sqrt{1606}e^{26},$ $\frac{7}{1157}\sqrt{190}e^{16} + \frac{14}{1157}\sqrt{141}e^{37} + \frac{7}{1157}\sqrt{1418}e^{45}$	$(-\frac{49}{1157}, \frac{77}{1157}, \frac{14}{1157}, \frac{203}{1157}, -\frac{224}{1157}, \frac{28}{1157}, -\frac{35}{1157}, \frac{105}{1157}, -\frac{21}{1157})$ $+ \frac{14}{1157}\sqrt{427}e^4 \otimes e_8 - \frac{7}{1157}\sqrt{2398}e^2 \otimes e_9$	{12378, 128, 349, 479}
942:193	$0, 0, 0, 0, 0, \frac{7}{1157}\sqrt{1006}e^{12}, \frac{49}{1157}\sqrt{2}e^{13}, \frac{7}{1157}\sqrt{1606}e^{26},$ $\frac{7}{1157}\sqrt{190}e^{16} + \frac{14}{1157}\sqrt{141}e^{37} + \frac{7}{1157}\sqrt{1418}e^{45}$	$(-\frac{49}{1157}, \frac{77}{1157}, \frac{14}{1157}, \frac{203}{1157}, -\frac{224}{1157}, \frac{28}{1157}, -\frac{35}{1157}, \frac{105}{1157}, -\frac{21}{1157})$ $+ \frac{14}{1157}\sqrt{427}e^4 \otimes e_8 + \frac{7}{1157}\sqrt{2398}e^2 \otimes e_9$	{12378, 128, 349, 479}
942:193	$0, 0, 0, 0, 0, \frac{80}{3379}\sqrt{114}e^{12}, \frac{120}{3379}\sqrt{201}e^{13}, \frac{40}{3379}\sqrt{1657}e^{26},$ $\frac{80}{3379}\sqrt{398}e^{16} + \frac{40}{3379}\sqrt{1610}e^{37} + \frac{40}{3379}\sqrt{141}e^{45}$	$(\frac{680}{3379}, -\frac{760}{3379}, -\frac{40}{3379}, \frac{300}{3379}, \frac{300}{3379}, -\frac{80}{3379}, \frac{640}{3379}, -\frac{840}{3379}, \frac{600}{3379})$ $+ \frac{40}{3379}\sqrt{2938}e^3 \otimes e_8$	{123469, 4568, 68}
942:193	$0, 0, 0, 0, 0, \frac{8}{1145}\sqrt{2429}e^{12}, \frac{4}{3435}\sqrt{175235}e^{13}, \frac{4}{3435}\sqrt{507661}e^{26},$ $\frac{4}{1145}\sqrt{36782}e^{16} + \frac{4}{3435}\sqrt{10410}e^{37} + \frac{4}{3435}\sqrt{504191}e^{45}$	$(\frac{202}{687}, -\frac{902}{3435}, \frac{18}{1145}, \frac{1982}{3435}, -\frac{288}{1145}, \frac{36}{1145}, \frac{1064}{3435}, -\frac{794}{3435}, \frac{1118}{3435})$ $+ \frac{4}{3435}\sqrt{987562}e^4 \otimes e_8$	{135689, 156789, 234567, 2456}
942:195	$0, 0, 0, 0, 0, \frac{8}{51}\sqrt{2}e^{12}, \frac{8}{51}\sqrt{11}e^{13}, \frac{16}{51}e^{16} + \frac{8}{153}\sqrt{93}e^{45},$ $\frac{16}{153}\sqrt{3}e^{17} + \frac{8}{153}\sqrt{3}e^{26}$	$(-\frac{8}{51}, \frac{8}{51}, \frac{8}{17}, \frac{4}{17}, -\frac{20}{51}, 0, \frac{16}{51}, -\frac{8}{51}, \frac{8}{51})$ $+ \frac{32}{51}e^4 \otimes e_5 + \frac{8}{153}\sqrt{258}e^3 \otimes e_8$	{1478, 1578}
942:195	$0, 0, 0, 0, 0, \frac{8}{35}\sqrt{2}e^{12}, \frac{8}{35}\sqrt{11}e^{13}, \frac{16}{35}e^{16} + \frac{8}{105}\sqrt{93}e^{45},$ $\frac{16}{105}\sqrt{3}e^{17} + \frac{8}{105}\sqrt{3}e^{26}$	$(-\frac{8}{35}, \frac{8}{35}, \frac{24}{35}, -\frac{4}{35}, -\frac{4}{35}, 0, \frac{16}{35}, -\frac{8}{35}, \frac{8}{35})$ $+ \frac{8}{105}\sqrt{258}e^3 \otimes e_8$	{1478, 234579, 2379}
942:195	$0, 0, 0, 0, 0, \frac{14}{339}\sqrt{66}e^{12}, \frac{14}{339}\sqrt{110}e^{13}, \frac{7}{339}\sqrt{55}e^{16} + \frac{28}{339}\sqrt{33}e^{45},$ $\frac{7}{113}\sqrt{33}e^{17} + \frac{7}{339}\sqrt{429}e^{26}$	$(\frac{53}{678}, \frac{38}{339}, \frac{33}{226}, \frac{105}{113}, -\frac{224}{339}, \frac{43}{226}, \frac{76}{339}, \frac{91}{339}, \frac{205}{678})$ $+ \frac{539}{339}e^4 \otimes e_5$	{134689, 135689, 48, 58}
942:195	$0, 0, 0, 0, 0, \frac{4}{83}\sqrt{10}e^{12}, \frac{8}{83}\sqrt{10}e^{13}, \frac{8}{83}\sqrt{17}e^{16} + \frac{4}{83}\sqrt{106}e^{45},$ $\frac{4}{83}\sqrt{114}e^{17} + \frac{8}{83}\sqrt{17}e^{26}$	$(\frac{12}{83}, -\frac{4}{83}, -\frac{20}{83}, \frac{36}{83}, -\frac{16}{83}, \frac{8}{83}, -\frac{8}{83}, \frac{20}{83}, \frac{4}{83})$ $+ \frac{16}{83}\sqrt{13}e^4 \otimes e_9 - \frac{4}{83}\sqrt{82}e^1 \otimes e_3$	{124678, 1457, 235789, 3679}
942:195	$0, 0, 0, 0, 0, \frac{16}{699}\sqrt{310}e^{12}, \frac{4}{699}\sqrt{7130}e^{13},$ $\frac{2}{699}\sqrt{49755}e^{16} + \frac{20}{699}\sqrt{527}e^{45}, \frac{2}{699}\sqrt{46965}e^{17} + \frac{2}{699}\sqrt{37045}e^{26}$	$(\frac{65}{699}, -\frac{8}{699}, -\frac{27}{233}, \frac{359}{699}, -\frac{79}{233}, \frac{19}{233}, -\frac{16}{699}, \frac{122}{699}, \frac{49}{699})$ $+ \frac{4}{699}\sqrt{23095}e^4 \otimes e_9$	{124678, 1457, 235789, 3679}
942:195	$0, 0, 0, 0, 0, \frac{4}{83}\sqrt{10}e^{12}, \frac{8}{83}\sqrt{10}e^{13}, \frac{8}{83}\sqrt{17}e^{16} + \frac{4}{83}\sqrt{106}e^{45},$ $\frac{4}{83}\sqrt{114}e^{17} + \frac{8}{83}\sqrt{17}e^{26}$	$(\frac{12}{83}, -\frac{4}{83}, -\frac{20}{83}, \frac{36}{83}, -\frac{16}{83}, \frac{8}{83}, -\frac{8}{83}, \frac{20}{83}, \frac{4}{83})$ $+ \frac{16}{83}\sqrt{13}e^4 \otimes e_9 + \frac{4}{83}\sqrt{82}e^1 \otimes e_3$	{124678, 1457, 235789, 3679}
942:195	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{6}e^{12}, \frac{4}{39}\sqrt{11}e^{13}, \frac{4}{39}\sqrt{10}e^{16} + \frac{28}{117}\sqrt{3}e^{45},$ $\frac{4}{117}\sqrt{102}e^{17} + \frac{4}{117}\sqrt{3}e^{26}$	$(-\frac{2}{39}, \frac{2}{39}, \frac{2}{13}, \frac{10}{39}, -\frac{4}{13}, 0, \frac{4}{39}, -\frac{2}{39}, \frac{2}{39})$ $+ \frac{4}{117}\sqrt{114}e^3 \otimes e_8 + \frac{4}{39}\sqrt{22}e^4 \otimes e_9$	{124678, 3679}
942:196	$0, 0, 0, 0, 0, -\frac{48}{299}e^{12}, \frac{16}{299}\sqrt{66}e^{13}, \frac{16}{299}\sqrt{46}e^{16} + \frac{48}{299}\sqrt{7}e^{45},$ $\frac{64}{299}\sqrt{2}e^{26} + \frac{16}{299}\sqrt{89}e^{37}$	$(-\frac{64}{299}, \frac{80}{299}, \frac{80}{299}, \frac{40}{299}, -\frac{88}{299}, \frac{16}{299}, \frac{16}{299}, -\frac{48}{299}, \frac{96}{299})$ $+ \frac{128}{299}e^4 \otimes e_5 + \frac{224}{299}e^3 \otimes e_8$	{14789, 15789, 468, 568, 14789, 15789, 468, 568}
942:196	$0, 0, 0, 0, 0, \frac{48}{299}e^{12}, \frac{16}{299}\sqrt{66}e^{13}, \frac{16}{299}\sqrt{46}e^{16} + \frac{48}{299}\sqrt{7}e^{45},$ $\frac{64}{299}\sqrt{2}e^{26} + \frac{16}{299}\sqrt{89}e^{37}$	$(-\frac{64}{299}, \frac{80}{299}, \frac{80}{299}, \frac{40}{299}, -\frac{88}{299}, \frac{16}{299}, \frac{16}{299}, -\frac{48}{299}, \frac{96}{299})$ $+ \frac{128}{299}e^4 \otimes e_5 + \frac{224}{299}e^3 \otimes e_8$	{14789, 15789, 468, 568, 14789, 15789, 468, 568}
942:196	$0, 0, 0, 0, 0, -\frac{16}{939}\sqrt{65}e^{12}, \frac{32}{939}\sqrt{155}e^{13},$ $\frac{16}{939}\sqrt{1110}e^{16} + \frac{16}{313}\sqrt{215}e^{45}, \frac{16}{939}\sqrt{1590}e^{26} + \frac{16}{313}\sqrt{115}e^{37}$	$(\frac{248}{939}, -\frac{56}{313}, -\frac{56}{313}, \frac{184}{939}, -\frac{224}{939}, \frac{80}{939}, \frac{80}{939}, \frac{328}{939}, -\frac{88}{939})$ $+ \frac{32}{939}\sqrt{970}e^4 \otimes e_9$	{1239, 1279, 135689, 156789, 234567, 2456, 3478, 48, 1239, 1279, 135689, 156789, 234567, 2456, 3478, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:196	$0, 0, 0, 0, 0, \frac{16}{939}\sqrt{65}e^{12}, \frac{32}{939}\sqrt{155}e^{13}, \frac{16}{939}\sqrt{1110}e^{16} + \frac{16}{313}\sqrt{215}e^{45},$ $\frac{16}{939}\sqrt{1590}e^{26} + \frac{16}{313}\sqrt{115}e^{37}$	$(\frac{248}{939}, -\frac{56}{313}, -\frac{56}{313}, \frac{184}{313}, -\frac{224}{939}, \frac{80}{939}, \frac{80}{939}, \frac{328}{939}, -\frac{88}{939})$ $+ \frac{32}{939}\sqrt{970}e^4 \otimes e_9$	{1239, 1279, 135689, 156789, 234567, 2456, 3478, 48, 1239, 1279, 135689, 156789, 234567, 2456, 3478, 48}
942:196	$0, 0, 0, 0, 0, -\frac{48}{235}e^{12}, \frac{16}{235}\sqrt{66}e^{13}, \frac{16}{235}\sqrt{46}e^{16} + \frac{48}{235}\sqrt{7}e^{45},$ $\frac{64}{235}\sqrt{2}e^{26} + \frac{16}{235}\sqrt{89}e^{37}$	$(-\frac{64}{235}, \frac{16}{47}, \frac{16}{47}, -\frac{24}{235}, -\frac{24}{235}, \frac{16}{235}, \frac{16}{235}, -\frac{48}{235}, \frac{96}{235})$ $+ \frac{224}{235}e^3 \otimes e_8$	{1234569, 12369, 14789, 23457, 237, 468, 1234569, 12369, 14789, 23457, 237, 468}
942:196	$0, 0, 0, 0, 0, \frac{48}{235}e^{12}, \frac{16}{235}\sqrt{66}e^{13}, \frac{16}{235}\sqrt{46}e^{16} + \frac{48}{235}\sqrt{7}e^{45},$ $\frac{64}{235}\sqrt{2}e^{26} + \frac{16}{235}\sqrt{89}e^{37}$	$(-\frac{64}{235}, \frac{16}{47}, \frac{16}{47}, -\frac{24}{235}, -\frac{24}{235}, \frac{16}{235}, \frac{16}{235}, -\frac{48}{235}, \frac{96}{235})$ $+ \frac{224}{235}e^3 \otimes e_8$	{1234569, 12369, 14789, 23457, 237, 468, 1234569, 12369, 14789, 23457, 237, 468}
942:196	$0, 0, 0, 0, 0, -\frac{8}{111}\sqrt{33}e^{12}, \frac{4}{111}\sqrt{110}e^{13}, \frac{8}{111}\sqrt{11}e^{16} + \frac{4}{111}\sqrt{154}e^{45},$ $\frac{4}{111}\sqrt{110}e^{26} + \frac{8}{111}\sqrt{33}e^{37}$	$(\frac{10}{111}, \frac{4}{37}, \frac{4}{37}, \frac{104}{111}, -\frac{24}{37}, \frac{22}{111}, \frac{22}{111}, \frac{32}{111}, \frac{34}{111})$ $+ \frac{176}{111}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 234678, 235678, 2468, 2568, 123489, 123589, 124789, 125789, 234678, 235678, 2468, 2568}
942:196	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{33}e^{12}, \frac{4}{111}\sqrt{110}e^{13}, \frac{8}{111}\sqrt{11}e^{16} + \frac{4}{111}\sqrt{154}e^{45},$ $\frac{4}{111}\sqrt{110}e^{26} + \frac{8}{111}\sqrt{33}e^{37}$	$(\frac{10}{111}, \frac{4}{37}, \frac{4}{37}, \frac{104}{111}, -\frac{24}{37}, \frac{22}{111}, \frac{22}{111}, \frac{32}{111}, \frac{34}{111})$ $+ \frac{176}{111}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 234678, 235678, 2468, 2568, 123489, 123589, 124789, 125789, 234678, 235678, 2468, 2568}
942:198	$0, 0, 0, 0, 0, \frac{32}{3923}\sqrt{1498}e^{26} + \frac{32}{3923}\sqrt{723}e^{45}, \frac{160}{3923}\sqrt{62}e^{16} + \frac{32}{3923}\sqrt{1739}e^{37}$ $\frac{32}{3923}\sqrt{471}e^{12}, \frac{64}{3923}\sqrt{474}e^{13}$	$(\frac{608}{3923}, -\frac{544}{3923}, \frac{32}{3923}, \frac{16}{3923}, -\frac{496}{3923}, \frac{64}{3923}, \frac{640}{3923}, -\frac{480}{3923}, \frac{672}{3923})$ $+ \frac{128}{3923}\sqrt{199}e^3 \otimes e_8 + \frac{512}{3923}e^4 \otimes e_5$	{468, 568}
942:198	$0, 0, 0, 0, 0, \frac{16}{1205}\sqrt{22}e^{26} + \frac{16}{1205}\sqrt{409}e^{45}, \frac{16}{1205}\sqrt{366}e^{16} + \frac{16}{1205}\sqrt{89}e^{37}$ $\frac{16}{1205}\sqrt{223}e^{12}, \frac{32}{1205}\sqrt{10}e^{13}$	$(\frac{16}{241}, -\frac{64}{1205}, \frac{8}{1205}, \frac{224}{1205}, -\frac{272}{1205}, \frac{16}{1205}, \frac{88}{1205}, -\frac{48}{1205}, \frac{96}{1205})$ $+ \frac{32}{1205}\sqrt{143}e^1 \otimes e_8 + \frac{64}{1205}\sqrt{31}e^4 \otimes e_9$	{1239, 1279, 3478, 48}
942:198	$0, 0, 0, 0, 0, \frac{16}{1205}\sqrt{22}e^{26} + \frac{16}{1205}\sqrt{409}e^{45}, \frac{16}{1205}\sqrt{366}e^{16} + \frac{16}{1205}\sqrt{89}e^{37}$ $\frac{16}{1205}\sqrt{223}e^{12}, \frac{32}{1205}\sqrt{10}e^{13}$	$(\frac{16}{241}, -\frac{64}{1205}, \frac{8}{1205}, \frac{224}{1205}, -\frac{272}{1205}, \frac{16}{1205}, \frac{88}{1205}, -\frac{48}{1205}, \frac{96}{1205})$ $- \frac{32}{1205}\sqrt{143}e^1 \otimes e_8 + \frac{64}{1205}\sqrt{31}e^4 \otimes e_9$	{1239, 1279, 3478, 48}
942:198	$0, 0, 0, 0, 0, \frac{32}{3667}\sqrt{1498}e^{26} + \frac{32}{3667}\sqrt{723}e^{45}, \frac{160}{3667}\sqrt{62}e^{16} + \frac{32}{3667}\sqrt{1739}e^{37}$ $\frac{32}{3667}\sqrt{471}e^{12}, \frac{64}{3667}\sqrt{474}e^{13}$	$(\frac{32}{193}, -\frac{544}{3667}, \frac{32}{3667}, -\frac{240}{3667}, -\frac{240}{3667}, \frac{64}{3667}, \frac{640}{3667}, -\frac{480}{3667}, \frac{672}{3667})$ $+ \frac{128}{3667}\sqrt{199}e^3 \otimes e_8$	{1234569, 12369, 468}
942:198	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{33}e^{12}, \frac{4}{111}\sqrt{110}e^{13}, \frac{4}{111}\sqrt{110}e^{26} + \frac{8}{111}\sqrt{33}e^{45},$ $\frac{4}{111}\sqrt{11}e^{16} + \frac{4}{111}\sqrt{154}e^{37}$	$(\frac{10}{111}, \frac{4}{37}, \frac{11}{111}, \frac{35}{111}, -\frac{71}{111}, \frac{22}{111}, \frac{7}{37}, \frac{34}{111}, \frac{32}{111})$ $+ \frac{176}{111}e^4 \otimes e_5$	{123489, 123589, 124789, 125789}
942:198	$0, 0, 0, 0, 0, \frac{112}{2897}\sqrt{14}e^{26} + \frac{16}{2897}\sqrt{737}e^{45}, \frac{16}{2897}\sqrt{610}e^{16} + \frac{16}{2897}\sqrt{1169}e^{37}$ $\frac{16}{2897}\sqrt{229}e^{12}, \frac{192}{2897}\sqrt{7}e^{13}$	$(\frac{152}{2897}, -\frac{136}{2897}, \frac{8}{2897}, \frac{296}{2897}, -\frac{416}{2897}, \frac{16}{2897}, \frac{160}{2897}, -\frac{120}{2897}, \frac{168}{2897})$ $+ \frac{32}{2897}\sqrt{178}e^4 \otimes e_9 + \frac{32}{2897}\sqrt{466}e^3 \otimes e_8$	{12369, 468}
942:198	$0, 0, 0, 0, 0, \frac{352}{3651}\sqrt{30}e^{26} + \frac{32}{3651}\sqrt{7295}e^{45}, \frac{32}{1217}\sqrt{730}e^{16} + \frac{32}{3651}\sqrt{3895}e^{37}$ $\frac{32}{3651}\sqrt{1565}e^{12}, \frac{64}{3651}\sqrt{430}e^{13}$	$(-\frac{688}{3651}, \frac{336}{1217}, \frac{160}{3651}, \frac{2192}{3651}, -\frac{288}{1217}, \frac{320}{3651}, -\frac{176}{1217}, \frac{1328}{3651}, -\frac{368}{3651})$ $+ \frac{128}{3651}\sqrt{955}e^4 \otimes e_9$	{134567, 1456, 235689, 256789}
942:200	$0, 0, 0, 0, 0, \frac{17}{685}\sqrt{286}e^{12}, \frac{34}{685}e^{13}, \frac{17}{685}\sqrt{26}e^{17} + \frac{34}{685}\sqrt{129}e^{26},$ $\frac{34}{685}\sqrt{38}e^{16} + \frac{102}{685}\sqrt{3}e^{37}$	$(\frac{17}{685}, \frac{17}{685}, \frac{17}{685}, \frac{68}{137}, -\frac{272}{685}, \frac{34}{685}, \frac{34}{685}, \frac{51}{685}, \frac{51}{685})$ $+ \frac{17}{685}\sqrt{534}e^4 \otimes e_8 + \frac{17}{685}\sqrt{690}e^2 \otimes e_5$	{156789, 23467}
942:200	$0, 0, 0, 0, 0, \frac{68}{685}\sqrt{29}e^{12}, \frac{17}{685}\sqrt{174}e^{13}, \frac{17}{685}\sqrt{382}e^{17} + \frac{221}{685}\sqrt{2}e^{26},$ $\frac{34}{685}\sqrt{51}e^{16} + \frac{17}{685}\sqrt{286}e^{37}$	$(\frac{17}{685}, \frac{17}{685}, \frac{17}{685}, \frac{68}{137}, -\frac{272}{685}, \frac{34}{685}, \frac{34}{685}, \frac{51}{685}, \frac{51}{685})$ $+ \frac{17}{685}\sqrt{534}e^4 \otimes e_9 + \frac{17}{685}\sqrt{690}e^2 \otimes e_5$	{1345678, 2679}
942:200	$0, 0, 0, 0, 0, \frac{2}{285}\sqrt{3178}e^{12}, \frac{2}{285}\sqrt{3178}e^{13}, \frac{2}{285}\sqrt{454}e^{17} + \frac{2}{95}\sqrt{454}e^{26},$ $\frac{2}{285}\sqrt{454}e^{16} + \frac{2}{95}\sqrt{454}e^{37}$	$(\frac{26}{285}, \frac{26}{285}, \frac{26}{285}, 1, -\frac{169}{285}, \frac{52}{285}, \frac{52}{285}, \frac{26}{95}, \frac{26}{95})$ $+ \frac{454}{285}e^4 \otimes e_5$	{123489, 123589, 4, 5}
942:200	$0, 0, 0, 0, 0, \frac{2}{289}\sqrt{15142}e^{12}, \frac{4}{289}\sqrt{791}e^{13}, \frac{2}{289}\sqrt{9605}e^{17} + \frac{6}{289}\sqrt{1582}e^{26},$ $\frac{4}{289}\sqrt{113}e^{16} + \frac{6}{289}\sqrt{565}e^{37}$	$(\frac{29}{289}, \frac{29}{289}, \frac{29}{289}, -\frac{197}{289}, \frac{46}{289}, \frac{58}{289}, \frac{58}{289}, \frac{87}{289}, \frac{87}{289})$ $+ \frac{18}{289}\sqrt{339}e^2 \otimes e_4$	{123578, 12378, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:200	$0, 0, 0, 0, 0, \frac{56}{285}\sqrt{6}e^{12}, \frac{14}{285}\sqrt{141}e^{13}, \frac{14}{285}\sqrt{291}e^{17} + \frac{14}{285}\sqrt{249}e^{26},$ $\frac{14}{285}\sqrt{183}e^{16} + \frac{28}{285}\sqrt{3}e^{37}$	$(-\frac{1}{95}, -\frac{1}{95}, -\frac{1}{95}, 1, \frac{16}{95}, -\frac{2}{95}, -\frac{2}{95}, -\frac{3}{95}, -\frac{3}{95})$ $+ \frac{14}{95}\sqrt{79}e^4 \otimes e_8$	{1245679, 124679, 35678, 3678}
942:200	$0, 0, 0, 0, 0, \frac{5}{61}\sqrt{22}e^{12}, \frac{5}{61}\sqrt{22}e^{13}, \frac{10}{61}\sqrt{5}e^{17} + \frac{30}{61}e^{26},$ $\frac{10}{61}\sqrt{5}e^{16} + \frac{30}{61}e^{37}$	$(\frac{5}{61}, \frac{5}{61}, \frac{5}{61}, -\frac{20}{61}, -\frac{20}{61}, \frac{10}{61}, \frac{10}{61}, \frac{15}{61}, \frac{15}{61})$ $+ \frac{15}{61}\sqrt{6}e^2 \otimes e_4 + \frac{15}{61}\sqrt{6}e^3 \otimes e_5$	{1456789, 2367}
942:200	$0, 0, 0, 0, 0, \frac{2}{289}\sqrt{5989}e^{12}, \frac{2}{289}\sqrt{5989}e^{13}, \frac{2}{289}\sqrt{8701}e^{17} + \frac{12}{289}\sqrt{113}e^{26},$ $\frac{2}{289}\sqrt{8701}e^{16} + \frac{12}{289}\sqrt{113}e^{37}$	$(\frac{29}{289}, \frac{29}{289}, \frac{29}{289}, -\frac{197}{289}, \frac{46}{289}, \frac{58}{289}, \frac{58}{289}, \frac{87}{289}, \frac{87}{289})$ $+ \frac{18}{289}\sqrt{339}e^1 \otimes e_4$	{1567, 167, 23456789, 2346789}
942:200	$0, 0, 0, 0, 0, \frac{34}{685}\sqrt{14}e^{12}, \frac{51}{685}\sqrt{26}e^{13}, \frac{17}{685}\sqrt{434}e^{17} + \frac{34}{685}\sqrt{14}e^{26},$ $\frac{17}{685}\sqrt{78}e^{16} + \frac{17}{685}\sqrt{122}e^{37}$	$(\frac{17}{685}, \frac{17}{685}, \frac{17}{685}, \frac{68}{137}, -\frac{272}{685}, \frac{34}{685}, \frac{34}{685}, \frac{51}{685}, \frac{51}{685})$ $+ \frac{17}{685}\sqrt{534}e^4 \otimes e_8 + \frac{17}{685}\sqrt{690}e^1 \otimes e_5$	{1368, 24569}
942:200	$0, 0, 0, 0, 0, \frac{76}{541}e^{12}, \frac{76}{541}e^{13}, \frac{19}{541}\sqrt{70}e^{17} + \frac{38}{541}\sqrt{39}e^{26},$ $\frac{19}{541}\sqrt{70}e^{16} + \frac{38}{541}\sqrt{39}e^{37}$	$(-\frac{19}{541}, -\frac{19}{541}, -\frac{19}{541}, \frac{304}{541}, \frac{304}{541}, -\frac{38}{541}, -\frac{38}{541}, -\frac{57}{541}, -\frac{57}{541})$ $+ \frac{19}{541}\sqrt{474}e^4 \otimes e_8 + \frac{19}{541}\sqrt{474}e^5 \otimes e_9$	{12389, 45}
942:203	$0, 0, 0, 0, 0, \frac{24}{2839}\sqrt{407}e^{12}, \frac{24}{2839}\sqrt{1074}e^{13},$ $\frac{24}{2839}\sqrt{582}e^{16} + \frac{24}{2839}\sqrt{1391}e^{45}, \frac{336}{2839}\sqrt{7}e^{14} + \frac{96}{2839}\sqrt{34}e^{25} + \frac{24}{2839}\sqrt{1585}e^{37}$	$(-\frac{312}{2839}, \frac{516}{2839}, \frac{180}{2839}, \frac{360}{2839}, -\frac{468}{2839}, \frac{12}{167}, -\frac{132}{2839}, -\frac{108}{2839}, \frac{48}{2839})$ $+ \frac{48}{2839}\sqrt{615}e^3 \otimes e_8$	{2468, 3457}
942:204	$0, 0, 0, 0, 0, \frac{43}{2377}\sqrt{1590}e^{16} + \frac{43}{2377}\sqrt{618}e^{45}, \frac{43}{2377}\sqrt{906}e^{17} + \frac{86}{2377}\sqrt{105}e^{24} + \frac{43}{2377}\sqrt{1730}e^{35}$	$(-\frac{387}{2377}, \frac{301}{2377}, \frac{1376}{2377}, \frac{301}{2377}, -\frac{774}{2377}, -\frac{86}{2377}, \frac{989}{2377}, -\frac{473}{2377}, \frac{602}{2377})$ $+ \frac{43}{2377}\sqrt{3954}e^3 \otimes e_8$	{13456, 3457}
942:205	$0, 0, 0, 0, 0, \frac{30}{3097}\sqrt{17}e^{12}, \frac{12}{3097}\sqrt{321}e^{13},$ $\frac{6}{3097}\sqrt{870}e^{26} + \frac{12}{3097}\sqrt{365}e^{45}, \frac{3097}{3097}\sqrt{295}e^{14} + \frac{6}{3097}\sqrt{973}e^{25} + \frac{30}{3097}\sqrt{70}e^{37}$	$(-\frac{123}{3097}, \frac{84}{3097}, \frac{63}{3097}, \frac{126}{3097}, -\frac{81}{3097}, -\frac{39}{3097}, -\frac{60}{3097}, \frac{45}{3097}, \frac{3}{3097})$ $+ \frac{18}{3097}\sqrt{299}e^3 \otimes e_8$	{146789, 3457}
942:206	$0, 0, 0, 0, 0, \frac{58}{1353}\sqrt{31}e^{12}, \frac{29}{1353}\sqrt{634}e^{13},$ $\frac{145}{1353}\sqrt{37}e^{26} + \frac{29}{451}\sqrt{65}e^{45}, \frac{29}{1353}\sqrt{101}e^{17} + \frac{29}{1353}\sqrt{654}e^{24} + \frac{58}{1353}\sqrt{170}e^{35}$	$(-\frac{203}{1353}, \frac{29}{1353}, \frac{232}{451}, \frac{87}{451}, -\frac{406}{1353}, -\frac{58}{451}, \frac{493}{1353}, -\frac{145}{1353}, \frac{290}{1353})$ $+ \frac{29}{1353}\sqrt{2253}e^3 \otimes e_8$	{14678, 379}
942:207	$0, 0, 0, 0, 0, \frac{32}{701}\sqrt{15}e^{12}, \frac{128}{701}\sqrt{7}e^{13}, \frac{16}{701}\sqrt{658}e^{14} + \frac{16}{701}\sqrt{974}e^{26},$ $\frac{32}{701}\sqrt{285}e^{15} + \frac{32}{701}\sqrt{194}e^{24} + \frac{16}{701}\sqrt{10}e^{37}$	$(-\frac{224}{701}, \frac{64}{701}, \frac{208}{701}, \frac{128}{701}, \frac{416}{701}, -\frac{160}{701}, -\frac{16}{701}, -\frac{96}{701}, \frac{192}{701})$ $+ \frac{16}{701}\sqrt{2410}e^5 \otimes e_8$	{13457, 145}
942:207	$0, 0, 0, 0, 0, \frac{129}{5917}\sqrt{10}e^{12}, \frac{129}{5917}\sqrt{418}e^{13},$ $\frac{43}{5917}\sqrt{3286}e^{14} + \frac{129}{5917}\sqrt{422}e^{26}, \frac{5917}{5917}\sqrt{707}e^{15} + \frac{43}{5917}\sqrt{2846}e^{24} + \frac{86}{5917}\sqrt{1459}e^{37}$	$(-\frac{1333}{5917}, \frac{301}{5917}, \frac{1118}{5917}, \frac{602}{5917}, \frac{2236}{5917}, -\frac{1032}{5917}, -\frac{215}{5917}, -\frac{731}{5917}, \frac{903}{5917})$ $+ \frac{43}{5917}\sqrt{10190}e^3 \otimes e_8$	{156789, 23567}
942:208	$0, 0, 0, 0, 0, \frac{264}{1277}\sqrt{6}e^{12}, \frac{44}{1277}\sqrt{219}e^{13},$ $\frac{88}{1277}\sqrt{37}e^{14} + \frac{44}{1277}\sqrt{641}e^{26}, \frac{44}{1277}\sqrt{6}e^{17} + \frac{44}{1277}\sqrt{498}e^{23} + \frac{132}{1277}\sqrt{71}e^{45}$	$(-\frac{66}{1277}, -\frac{132}{1277}, \frac{506}{1277}, \frac{264}{1277}, \frac{638}{1277}, -\frac{198}{1277}, \frac{440}{1277}, -\frac{330}{1277}, \frac{374}{1277})$ $+ \frac{220}{1277}\sqrt{42}e^5 \otimes e_8$	{123489, 2456}
942:208	$0, 0, 0, 0, 0, \frac{8}{19}\sqrt{3}e^{12}, \frac{12}{19}\sqrt{2}e^{13}, \frac{8}{19}\sqrt{10}e^{14} + \frac{4}{19}\sqrt{22}e^{26},$ $\frac{8}{19}\sqrt{3}e^{17} + \frac{8}{19}\sqrt{7}e^{23} + \frac{12}{19}\sqrt{2}e^{45}$	$(\frac{2}{19}, \frac{4}{19}, -\frac{4}{19}, \frac{8}{19}, -\frac{8}{19}, \frac{6}{19}, -\frac{2}{19}, \frac{10}{19}, 0)$ $+ \frac{24}{19}e^4 \otimes e_5$	{158, 567}
942:208	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{42}e^{12}, \frac{4}{41}\sqrt{3}e^{13}, \frac{4}{41}\sqrt{78}e^{14} + \frac{4}{41}\sqrt{11}e^{26},$ $\frac{8}{41}\sqrt{5}e^{17} + \frac{4}{41}\sqrt{78}e^{23} + \frac{4}{41}\sqrt{41}e^{45}$	$(-\frac{2}{41}, -\frac{4}{41}, \frac{14}{41}, -\frac{8}{41}, \frac{18}{41}, -\frac{6}{41}, \frac{12}{41}, -\frac{10}{41}, \frac{10}{41})$ $+ \frac{4}{41}\sqrt{110}e^3 \otimes e_8$	{126789, 2357}
942:209	$0, 0, 0, 0, 0, \frac{658}{4117}\sqrt{3}e^{12}, \frac{141}{4117}\sqrt{38}e^{13},$ $\frac{47}{4117}\sqrt{2770}e^{14} + \frac{94}{4117}\sqrt{663}e^{26}, \frac{47}{4117}\sqrt{1166}e^{17} + \frac{94}{4117}\sqrt{623}e^{24} + \frac{235}{4117}\sqrt{154}e^{35}$	$(-\frac{658}{4117}, \frac{235}{4117}, \frac{2021}{4117}, \frac{470}{4117}, -\frac{1316}{4117}, -\frac{423}{4117}, \frac{1363}{4117}, -\frac{188}{4117}, \frac{705}{4117})$ $+ \frac{94}{4117}\sqrt{1754}e^3 \otimes e_8$	{156789, 23567}
942:209	$0, 0, 0, 0, 0, \frac{88}{327}\sqrt{6}e^{12}, \frac{11}{327}\sqrt{1110}e^{13}, \frac{55}{109}\sqrt{2}e^{14} + \frac{22}{327}\sqrt{33}e^{26},$ $\frac{11}{327}\sqrt{438}e^{17} + \frac{22}{327}\sqrt{93}e^{24} + \frac{11}{327}\sqrt{534}e^{35}$	$(-\frac{22}{109}, \frac{11}{109}, \frac{77}{109}, \frac{22}{109}, -\frac{44}{109}, -\frac{11}{109}, \frac{55}{109}, 0, \frac{33}{109})$ $+ \frac{22}{327}\sqrt{411}e^3 \otimes e_5$	{157, 568}
942:209	$0, 0, 0, 0, 0, \frac{19}{3709}\sqrt{2306}e^{12}, \frac{57}{3709}\sqrt{462}e^{13},$ $\frac{38}{3709}\sqrt{1151}e^{14} + \frac{38}{3709}\sqrt{565}e^{26}, \frac{19}{3709}\sqrt{709}e^{17} + \frac{38}{3709}\sqrt{3966}e^{24} + \frac{19}{3709}\sqrt{6126}e^{35}$	$(\frac{323}{3709}, -\frac{19}{3709}, -\frac{703}{3709}, -\frac{38}{3709}, \frac{646}{3709}, \frac{304}{3709}, -\frac{380}{3709}, \frac{285}{3709}, -\frac{57}{3709})$ $+ \frac{38}{3709}\sqrt{1714}e^5 \otimes e_8$	{128, 136789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:210	$0, 0, 0, 0, 0, -\frac{56}{85}e^{12}, \frac{14}{85}\sqrt{3}e^{13}, \frac{7}{85}\sqrt{110}e^{14} + \frac{21}{85}\sqrt{2}e^{26},$ $\frac{7}{85}\sqrt{26}e^{17} + \frac{7}{85}\sqrt{114}e^{25} + \frac{56}{85}e^{34}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, -\frac{14}{85}, \frac{28}{85}, -\frac{14}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{38}e^5 \otimes e_8$	{126789, 138, 2357, 569, 126789, 138, 2357, 569}
942:210	$0, 0, 0, 0, 0, \frac{56}{85}e^{12}, \frac{14}{85}\sqrt{3}e^{13}, \frac{7}{85}\sqrt{110}e^{14} + \frac{21}{85}\sqrt{2}e^{26},$ $\frac{7}{85}\sqrt{26}e^{17} + \frac{7}{85}\sqrt{114}e^{25} + \frac{56}{85}e^{34}$	$(-\frac{7}{85}, -\frac{7}{85}, \frac{7}{17}, -\frac{14}{85}, \frac{28}{85}, -\frac{14}{85}, \frac{28}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{38}e^5 \otimes e_8$	{126789, 138, 2357, 569, 126789, 138, 2357, 569}
942:210	$0, 0, 0, 0, 0, -\frac{26}{781}\sqrt{326}e^{12}, \frac{26}{781}\sqrt{87}e^{13},$ $\frac{13}{781}\sqrt{946}e^{14} + \frac{13}{781}\sqrt{1190}e^{26}, \frac{13}{781}\sqrt{6}e^{17} + \frac{39}{781}\sqrt{118}e^{25} + \frac{104}{781}\sqrt{13}e^{34}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{354}e^2 \otimes e_5$	{123478, 1345678, 2346, 345, 123478, 1345678, 2346, 345}
942:210	$0, 0, 0, 0, 0, \frac{26}{781}\sqrt{326}e^{12}, \frac{26}{781}\sqrt{87}e^{13}, \frac{13}{781}\sqrt{946}e^{14} + \frac{13}{781}\sqrt{1190}e^{26},$ $\frac{13}{781}\sqrt{6}e^{17} + \frac{39}{781}\sqrt{118}e^{25} + \frac{104}{781}\sqrt{13}e^{34}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{354}e^2 \otimes e_5$	{123478, 1345678, 2346, 345, 123478, 1345678, 2346, 345}
942:211	$0, 0, 0, 0, 0, -\frac{8}{41}\sqrt{3}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, \frac{12}{41}\sqrt{6}e^{16} + \frac{4}{41}\sqrt{34}e^{24},$ $\frac{8}{41}\sqrt{10}e^{14} + \frac{8}{41}\sqrt{15}e^{25} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, -\frac{14}{41}, \frac{4}{41}, \frac{8}{41}, \frac{26}{41}, -\frac{10}{41}, \frac{8}{41}, -\frac{6}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^5 \otimes e_8$	{23457, 245, 34678, 468, 23457, 245, 34678, 468}
942:211	$0, 0, 0, 0, 0, \frac{8}{41}\sqrt{3}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, \frac{12}{41}\sqrt{6}e^{16} + \frac{4}{41}\sqrt{34}e^{24},$ $\frac{8}{41}\sqrt{10}e^{14} + \frac{8}{41}\sqrt{15}e^{25} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, -\frac{14}{41}, \frac{4}{41}, \frac{8}{41}, \frac{26}{41}, -\frac{10}{41}, \frac{8}{41}, -\frac{6}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^5 \otimes e_8$	{23457, 245, 34678, 468, 23457, 245, 34678, 468}
942:211	$0, 0, 0, 0, 0, -\frac{13}{1321}\sqrt{239}e^{12}, \frac{39}{1321}\sqrt{133}e^{13},$ $\frac{65}{1321}\sqrt{17}e^{16} + \frac{39}{1321}\sqrt{145}e^{24}, \frac{13}{1321}\sqrt{1135}e^{14} + \frac{234}{1321}e^{25} + \frac{13}{1321}\sqrt{1367}e^{37}$	$(\frac{39}{1321}, -\frac{208}{1321}, \frac{39}{1321}, \frac{78}{1321}, \frac{325}{1321}, -\frac{169}{1321}, \frac{78}{1321}, -\frac{130}{1321}, \frac{117}{1321})$ $+ \frac{26}{1321}\sqrt{579}e^3 \otimes e_8$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
942:211	$0, 0, 0, 0, 0, \frac{13}{1321}\sqrt{239}e^{12}, \frac{39}{1321}\sqrt{133}e^{13},$ $\frac{65}{1321}\sqrt{17}e^{16} + \frac{39}{1321}\sqrt{145}e^{24}, \frac{13}{1321}\sqrt{1135}e^{14} + \frac{234}{1321}e^{25} + \frac{13}{1321}\sqrt{1367}e^{37}$	$(\frac{39}{1321}, -\frac{208}{1321}, \frac{39}{1321}, \frac{78}{1321}, \frac{325}{1321}, -\frac{169}{1321}, \frac{78}{1321}, -\frac{130}{1321}, \frac{117}{1321})$ $+ \frac{26}{1321}\sqrt{579}e^3 \otimes e_8$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
942:212	$0, 0, 0, 0, 0, \frac{1116}{1453}e^{12}, \frac{31}{1453}\sqrt{1194}e^{13}, \frac{31}{1453}\sqrt{2270}e^{16} + \frac{62}{1453}\sqrt{235}e^{24},$ $\frac{31}{1453}\sqrt{1770}e^{17} + \frac{372}{1453}\sqrt{3}e^{23} + \frac{744}{1453}\sqrt{3}e^{45}$	$(-\frac{93}{1453}, -\frac{186}{1453}, \frac{589}{1453}, -\frac{186}{1453}, \frac{589}{1453}, -\frac{279}{1453}, \frac{496}{1453}, -\frac{372}{1453}, \frac{403}{1453})$ $+ \frac{31}{1453}\sqrt{2490}e^5 \otimes e_8$	{1456, 457}
942:212	$0, 0, 0, 0, 0, \frac{138}{1261}\sqrt{66}e^{12}, \frac{138}{1261}\sqrt{65}e^{13},$ $\frac{23}{1261}\sqrt{2902}e^{16} + \frac{23}{1261}\sqrt{3658}e^{24}, \frac{46}{1261}\sqrt{718}e^{17} + \frac{23}{1261}\sqrt{1578}e^{23} + \frac{46}{1261}\sqrt{399}e^{45}$	$(\frac{115}{1261}, \frac{230}{1261}, -\frac{23}{97}, \frac{230}{1261}, -\frac{23}{97}, \frac{345}{1261}, -\frac{184}{1261}, \frac{460}{1261}, -\frac{69}{1261})$ $+ \frac{69}{1261}\sqrt{262}e^4 \otimes e_5$	{125678, 258}
942:212	$0, 0, 0, 0, 0, \frac{31}{1453}\sqrt{1194}e^{12}, \frac{1116}{1453}e^{13}, \frac{62}{1453}\sqrt{55}e^{16} + \frac{155}{1453}\sqrt{62}e^{24},$ $\frac{372}{1453}\sqrt{5}e^{17} + \frac{372}{1453}\sqrt{3}e^{23} + \frac{31}{1453}\sqrt{762}e^{45}$	$(-\frac{93}{1453}, -\frac{186}{1453}, \frac{589}{1453}, -\frac{186}{1453}, \frac{589}{1453}, -\frac{279}{1453}, \frac{496}{1453}, -\frac{372}{1453}, \frac{403}{1453})$ $+ \frac{31}{1453}\sqrt{2490}e^3 \otimes e_8$	{139, 3679}
942:214	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{5}e^{12}, \frac{1}{17}\sqrt{35}e^{13}, \frac{10}{17}e^{16} + \frac{2}{17}\sqrt{31}e^{34},$ $\frac{1}{17}\sqrt{83}e^{14} + \frac{12}{17}e^{25} + \frac{4}{17}\sqrt{3}e^{37}$	$(\frac{3}{17}, -\frac{6}{17}, 0, 0, \frac{9}{17}, -\frac{3}{17}, \frac{3}{17}, 0, \frac{3}{17})$ $+ \frac{1}{17}\sqrt{265}e^5 \otimes e_8$	{12489, 1345679}
942:214	$0, 0, 0, 0, 0, \frac{82}{1393}\sqrt{302}e^{12}, \frac{697}{1393}e^{13}, \frac{123}{1393}\sqrt{35}e^{16} + \frac{82}{1393}\sqrt{42}e^{34},$ $\frac{41}{1393}\sqrt{323}e^{14} + \frac{41}{1393}\sqrt{226}e^{25} + \frac{41}{199}\sqrt{6}e^{37}$	$(-\frac{205}{1393}, \frac{902}{1393}, \frac{164}{1393}, \frac{328}{1393}, -\frac{779}{1393}, \frac{697}{1393}, -\frac{41}{1393}, \frac{492}{1393}, \frac{123}{1393})$ $+ \frac{41}{1393}\sqrt{2285}e^2 \otimes e_5$	{12378, 156}
942:215	$0, 0, 0, 0, 0, \frac{138}{997}\sqrt{19}e^{12}, \frac{23}{997}\sqrt{670}e^{13}, \frac{46}{997}\sqrt{253}e^{16} + \frac{23}{997}\sqrt{742}e^{34},$ $\frac{23}{997}\sqrt{970}e^{15} + \frac{23}{997}\sqrt{2}e^{24} + \frac{46}{997}\sqrt{146}e^{37}$	$(\frac{299}{997}, -\frac{322}{997}, -\frac{115}{997}, \frac{391}{997}, -\frac{230}{997}, -\frac{23}{997}, \frac{184}{997}, \frac{276}{997}, \frac{69}{997})$ $+ \frac{32}{997}\sqrt{107}e^1 \otimes e_5$	{2345678, 357}
942:215	$0, 0, 0, 0, 0, \frac{26}{397}\sqrt{15}e^{12}, \frac{52}{397}\sqrt{23}e^{13}, \frac{13}{1191}\sqrt{222}e^{16} + \frac{13}{397}\sqrt{554}e^{34},$ $\frac{13}{397}\sqrt{534}e^{15} + \frac{104}{1191}\sqrt{39}e^{24} + \frac{13}{1191}\sqrt{2226}e^{37}$	$(-\frac{91}{397}, \frac{143}{397}, \frac{65}{397}, -\frac{104}{397}, \frac{130}{397}, \frac{52}{397}, -\frac{26}{397}, -\frac{39}{397}, \frac{39}{397})$ $+ \frac{104}{1191}\sqrt{102}e^5 \otimes e_8$	{12489, 2368}
942:216	$0, 0, 0, 0, 0, \frac{966}{3973}\sqrt{2}e^{12}, \frac{138}{3973}\sqrt{53}e^{13},$ $\frac{759}{3973}\sqrt{10}e^{16} + \frac{69}{3973}\sqrt{3778}e^{34}, \frac{276}{3973}\sqrt{85}e^{17} + \frac{138}{3973}\sqrt{257}e^{23} + \frac{69}{3973}\sqrt{938}e^{45}$	$(\frac{483}{3973}, \frac{966}{3973}, -\frac{621}{3973}, \frac{2553}{3973}, -\frac{2208}{3973}, \frac{1449}{3973}, -\frac{138}{3973}, \frac{1932}{3973}, \frac{345}{3973})$ $+ \frac{345}{3973}\sqrt{266}e^4 \otimes e_5$	{135678, 358}
942:218	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{10}e^{12}, \frac{1}{13}\sqrt{10}e^{13}, \frac{2}{39}\sqrt{15}e^{26} + \frac{2}{13}\sqrt{30}e^{34},$ $\frac{1}{39}\sqrt{390}e^{14} + \frac{2}{13}\sqrt{30}e^{25} + \frac{2}{39}\sqrt{30}e^{37}$	$(\frac{5}{13}, -\frac{4}{13}, -\frac{1}{13}, -\frac{2}{13}, \frac{7}{13}, \frac{1}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{3}{13})$ $+ \frac{1}{39}\sqrt{2010}e^5 \otimes e_8$	{134579, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:218	$0, 0, 0, 0, 0, \frac{236}{4813}\sqrt{278}e^{12}, \frac{118}{4813}\sqrt{115}e^{13},$ $\frac{885}{4813}\sqrt{22}e^{26} + \frac{59}{4813}\sqrt{1794}e^{34}, \frac{118}{4813}\sqrt{43}e^{14} + \frac{413}{4813}\sqrt{70}e^{25} + \frac{1121}{4813}\sqrt{6}e^{37}$	$(-\frac{1357}{4813}, \frac{1829}{4813}, \frac{767}{4813}, \frac{1534}{4813}, -\frac{1652}{4813}, \frac{472}{4813}, -\frac{590}{4813}, \frac{2301}{4813}, \frac{177}{4813})$ $+\frac{118}{4813}\sqrt{2045}e^2 \otimes e_5$	{123478, 1345678}
942:219	$0, 0, 0, 0, 0, \frac{2}{69}\sqrt{690}e^{12}, \frac{5}{69}\sqrt{138}e^{13}, \frac{4}{69}\sqrt{69}e^{26} + \frac{1}{69}\sqrt{1518}e^{34},$ $\frac{1}{23}\sqrt{230}e^{15} + \frac{1}{69}\sqrt{138}e^{24} + \frac{1}{69}\sqrt{1794}e^{37}$	$(\frac{13}{23}, -\frac{5}{23}, -\frac{5}{23}, \frac{8}{23}, -\frac{10}{23}, \frac{8}{23}, \frac{8}{23}, \frac{3}{23}, \frac{3}{23})$ $+\frac{1}{23}\sqrt{874}e^1 \otimes e_5$	{23567, 45}
942:219	$0, 0, 0, 0, 0, \frac{11}{1443}\sqrt{822}e^{12}, \frac{11}{1443}\sqrt{3774}e^{13},$ $\frac{11}{1443}\sqrt{2370}e^{26} + \frac{11}{1443}\sqrt{5370}e^{34}, \frac{11}{481}\sqrt{654}e^{15} + \frac{77}{1443}\sqrt{78}e^{24} + \frac{11}{1443}\sqrt{2226}e^{37}$	$(-\frac{121}{481}, \frac{77}{481}, \frac{77}{481}, -\frac{44}{481}, \frac{154}{481}, -\frac{44}{481}, -\frac{44}{481}, \frac{33}{481}, \frac{33}{481})$ $+\frac{11}{481}\sqrt{878}e^5 \otimes e_8$	{12489, 136789}
942:220	$0, 0, 0, 0, 0, \frac{32}{711}\sqrt{106}e^{12}, \frac{32}{711}\sqrt{43}e^{13}, \frac{160}{711}\sqrt{11}e^{26} + \frac{32}{711}\sqrt{114}e^{34},$ $\frac{64}{711}\sqrt{3}e^{17} + \frac{64}{711}\sqrt{57}e^{23} + \frac{32}{237}\sqrt{31}e^{45}$	$(-\frac{16}{711}, -\frac{32}{711}, \frac{64}{237}, -\frac{272}{711}, \frac{48}{79}, -\frac{16}{237}, \frac{176}{711}, -\frac{80}{711}, \frac{160}{711})$ $+\frac{32}{711}\sqrt{590}e^5 \otimes e_8$	{1368, 146789, 3457, 59}
942:220	$0, 0, 0, 0, 0, \frac{32}{711}\sqrt{106}e^{12}, \frac{32}{711}\sqrt{43}e^{13}, \frac{160}{711}\sqrt{11}e^{26} + \frac{32}{711}\sqrt{114}e^{34},$ $\frac{64}{711}\sqrt{3}e^{17} + \frac{64}{711}\sqrt{57}e^{23} + \frac{32}{237}\sqrt{31}e^{45}$	$(-\frac{16}{711}, -\frac{32}{711}, \frac{64}{237}, -\frac{272}{711}, \frac{48}{79}, -\frac{16}{237}, \frac{176}{711}, -\frac{80}{711}, \frac{160}{711})$ $-\frac{32}{711}\sqrt{590}e^5 \otimes e_8$	{1368, 146789, 3457, 59}
942:220	$0, 0, 0, 0, 0, \frac{16}{523}\sqrt{210}e^{12}, \frac{16}{523}\sqrt{265}e^{13}, \frac{16}{523}\sqrt{195}e^{26} + \frac{32}{523}\sqrt{290}e^{34},$ $\frac{16}{523}\sqrt{210}e^{17} + \frac{32}{523}\sqrt{35}e^{23} + \frac{16}{523}\sqrt{265}e^{45}$	$(\frac{56}{523}, \frac{112}{523}, -\frac{64}{523}, \frac{344}{523}, -\frac{296}{523}, \frac{168}{523}, -\frac{8}{523}, \frac{280}{523}, \frac{48}{523})$ $+\frac{32}{523}\sqrt{545}e^4 \otimes e_5$	{13467, 358}
942:221	$0, 0, 0, 0, 0, \frac{23}{1551}\sqrt{1230}e^{12}, \frac{23}{1551}\sqrt{3306}e^{13},$ $\frac{46}{1551}\sqrt{138}e^{26} + \frac{46}{517}\sqrt{77}e^{34}, \frac{230}{1551}\sqrt{15}e^{17} + \frac{23}{1551}\sqrt{390}e^{24} + \frac{23}{1551}\sqrt{2154}e^{35}$	$(-\frac{115}{517}, \frac{161}{517}, \frac{299}{517}, -\frac{92}{517}, -\frac{230}{517}, \frac{46}{517}, \frac{184}{517}, \frac{207}{517}, \frac{69}{517})$ $+\frac{230}{1551}\sqrt{78}e^3 \otimes e_5$	{1245678, 56}
942:221	$0, 0, 0, 0, 0, \frac{10}{233}\sqrt{195}e^{12}, \frac{5}{233}\sqrt{790}e^{13}, \frac{5}{233}\sqrt{890}e^{26} + \frac{5}{233}\sqrt{670}e^{34},$ $\frac{5}{233}\sqrt{230}e^{17} + \frac{5}{233}\sqrt{1010}e^{24} + \frac{5}{233}\sqrt{1230}e^{35}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{80}{233}, \frac{65}{233}, \frac{110}{233}, \frac{20}{233}, -\frac{25}{233}, -\frac{15}{233}, \frac{30}{233})$ $+\frac{10}{233}\sqrt{505}e^5 \otimes e_8$	{136789, 1468}
942:222	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{6}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, -\frac{4}{41}\sqrt{30}e^{14} + \frac{8}{41}\sqrt{2}e^{26},$ $\frac{8}{41}\sqrt{14}e^{16} + \frac{24}{41}e^{24} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^1 \otimes e_5$	{12349, 12479, 34578, 458, 12349, 12479, 34578, 458}
942:222	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{6}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, \frac{4}{41}\sqrt{30}e^{14} + \frac{8}{41}\sqrt{2}e^{26},$ $\frac{8}{41}\sqrt{14}e^{16} + \frac{24}{41}e^{24} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^1 \otimes e_5$	{12349, 12479, 34578, 458, 12349, 12479, 34578, 458}
942:222	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{6}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, -\frac{4}{41}\sqrt{39}e^{14} + \frac{4}{41}\sqrt{61}e^{26},$ $\frac{4}{41}\sqrt{13}e^{16} + \frac{4}{41}\sqrt{33}e^{24} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^2 \otimes e_5$	{1345689, 1456789, 23467, 246, 1345689, 1456789, 23467, 246}
942:222	$0, 0, 0, 0, 0, \frac{12}{41}\sqrt{6}e^{12}, \frac{8}{41}\sqrt{2}e^{13}, \frac{4}{41}\sqrt{39}e^{14} + \frac{4}{41}\sqrt{61}e^{26},$ $\frac{4}{41}\sqrt{13}e^{16} + \frac{4}{41}\sqrt{33}e^{24} + \frac{4}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^2 \otimes e_5$	{1345689, 1456789, 23467, 246, 1345689, 1456789, 23467, 246}
942:222	$0, 0, 0, 0, 0, \frac{34}{301}\sqrt{35}e^{12}, \frac{17}{301}\sqrt{34}e^{13}, -\frac{17}{301}\sqrt{219}e^{14} + \frac{17}{301}\sqrt{95}e^{26},$ $\frac{17}{301}\sqrt{101}e^{16} + \frac{17}{301}\sqrt{247}e^{24} + \frac{17}{301}\sqrt{22}e^{37}$	$(\frac{34}{301}, \frac{34}{301}, \frac{34}{301}, \frac{68}{301}, -\frac{221}{301}, \frac{68}{301}, \frac{68}{301}, \frac{102}{301}, \frac{102}{301})$ $+\frac{51}{301}\sqrt{58}e^4 \otimes e_5$	{1358, 1578, 23579, 259, 1358, 1578, 23579, 259}
942:222	$0, 0, 0, 0, 0, \frac{34}{301}\sqrt{35}e^{12}, \frac{17}{301}\sqrt{34}e^{13}, \frac{17}{301}\sqrt{219}e^{14} + \frac{17}{301}\sqrt{95}e^{26},$ $\frac{17}{301}\sqrt{101}e^{16} + \frac{17}{301}\sqrt{247}e^{24} + \frac{17}{301}\sqrt{22}e^{37}$	$(\frac{34}{301}, \frac{34}{301}, \frac{34}{301}, \frac{68}{301}, -\frac{221}{301}, \frac{68}{301}, \frac{68}{301}, \frac{102}{301}, \frac{102}{301})$ $+\frac{51}{301}\sqrt{58}e^4 \otimes e_5$	{1358, 1578, 23579, 259, 1358, 1578, 23579, 259}
942:222	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{2}e^{12}, \frac{1}{161}\sqrt{286}e^{13}, -\frac{1}{161}\sqrt{201}e^{14} + \frac{1}{161}\sqrt{295}e^{26},$ $\frac{1}{161}\sqrt{317}e^{16} + \frac{5}{161}\sqrt{5}e^{24} + \frac{1}{161}\sqrt{362}e^{37}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{2}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+\frac{24}{161}e^3 \otimes e_8$	{1234569, 123469, 4568, 468, 1234569, 123469, 4568, 468}
942:222	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{2}e^{12}, \frac{1}{161}\sqrt{286}e^{13}, \frac{1}{161}\sqrt{201}e^{14} + \frac{1}{161}\sqrt{295}e^{26},$ $\frac{1}{161}\sqrt{317}e^{16} + \frac{5}{161}\sqrt{5}e^{24} + \frac{1}{161}\sqrt{362}e^{37}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{2}{161}, \frac{17}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+\frac{24}{161}e^3 \otimes e_8$	{1234569, 123469, 4568, 468, 1234569, 123469, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 226	$0, 0, 0, 0, 0, -\frac{4}{41}\sqrt{71}e^{12}, \frac{12}{41}e^{13}, \frac{8}{41}\sqrt{3}e^{16} + \frac{4}{41}\sqrt{34}e^{34},$ $\frac{8}{41}\sqrt{10}e^{14} + \frac{4}{41}\sqrt{77}e^{26} + \frac{4}{41}\sqrt{15}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_5$	{123479, 145689, 2346, 4578, 123479, 145689, 2346, 4578}
942: 226	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{71}e^{12}, \frac{12}{41}e^{13}, \frac{8}{41}\sqrt{3}e^{16} + \frac{4}{41}\sqrt{34}e^{34},$ $\frac{8}{41}\sqrt{10}e^{14} + \frac{4}{41}\sqrt{77}e^{26} + \frac{4}{41}\sqrt{15}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_5$	{123479, 145689, 2346, 4578, 123479, 145689, 2346, 4578}
942: 228	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{74}e^{12}, \frac{8}{41}\sqrt{3}e^{13}, \frac{12}{41}\sqrt{2}e^{26} + \frac{8}{41}\sqrt{10}e^{34},$ $\frac{4}{41}\sqrt{86}e^{16} + \frac{4}{41}\sqrt{46}e^{24} + \frac{12}{41}\sqrt{2}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^1 \otimes e_5$	{123479, 4578}
942: 228	$0, 0, 0, 0, 0, \frac{8}{41}\sqrt{7}e^{12}, \frac{4}{41}\sqrt{34}e^{13}, \frac{4}{41}\sqrt{74}e^{26} + \frac{8}{41}\sqrt{13}e^{34},$ $\frac{8}{41}\sqrt{13}e^{16} + \frac{4}{41}\sqrt{46}e^{24} + \frac{8}{41}\sqrt{7}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^2 \otimes e_5$	{1345689, 246}
942: 228	$0, 0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{2}{3}e^{13}, \frac{2}{3}e^{26} + \frac{2}{3}\sqrt{2}e^{34},$ $\frac{1}{3}\sqrt{3}e^{16} + \frac{1}{3}\sqrt{5}e^{24} + \frac{1}{3}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_8$	{12489, 345}
942: 228	$0, 0, 0, 0, 0, \frac{17}{301}\sqrt{6}e^{12}, \frac{68}{301}\sqrt{7}e^{13}, \frac{34}{301}\sqrt{42}e^{26} + \frac{34}{301}\sqrt{73}e^{34},$ $\frac{17}{301}\sqrt{118}e^{16} + \frac{17}{301}\sqrt{174}e^{24} + \frac{34}{301}\sqrt{42}e^{37}$	$(\frac{34}{301}, \frac{34}{301}, \frac{34}{301}, \frac{68}{301}, -\frac{221}{301}, \frac{68}{301}, \frac{68}{301}, \frac{102}{301}, \frac{102}{301})$ $+ \frac{51}{301}\sqrt{58}e^4 \otimes e_5$	{1259, 358}
942: 228	$0, 0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{3}e^{13}, \frac{1}{3}e^{26} + \frac{1}{3}\sqrt{2}e^{34},$ $\frac{1}{3}\sqrt{3}e^{16} + \frac{1}{3}\sqrt{5}e^{24} + \frac{2}{3}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_9$	{13489, 245}
942: 230	$0, 0, 0, 0, 0, \frac{43}{2221}\sqrt{2818}e^{12}, \frac{258}{2221}\sqrt{55}e^{13},$ $\frac{86}{2221}\sqrt{651}e^{16} + \frac{215}{2221}\sqrt{166}e^{24}, \frac{301}{2221}\sqrt{58}e^{17} + \frac{43}{2221}\sqrt{642}e^{26} + \frac{774}{2221}\sqrt{6}e^{45}$	$(\frac{559}{2221}, -\frac{86}{2221}, -\frac{731}{2221}, \frac{1118}{2221}, -\frac{731}{2221}, \frac{473}{2221}, -\frac{172}{2221}, \frac{1032}{2221}, \frac{387}{2221})$ $+ \frac{258}{2221}\sqrt{109}e^4 \otimes e_5$	{258, 56}
942: 230	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{95}e^{12}, \frac{3}{31}\sqrt{38}e^{13}, \frac{1}{31}\sqrt{798}e^{16} + \frac{2}{31}\sqrt{38}e^{24},$ $\frac{1}{31}\sqrt{494}e^{17} + \frac{2}{31}\sqrt{57}e^{26} + \frac{6}{31}\sqrt{19}e^{45}$	$(-\frac{5}{31}, \frac{4}{31}, \frac{13}{31}, -\frac{10}{31}, \frac{13}{31}, -\frac{1}{31}, \frac{8}{31}, -\frac{6}{31}, \frac{3}{31})$ $+ \frac{3}{31}\sqrt{114}e^5 \otimes e_8$	{1456, 234689}
942: 230	$0, 0, 0, 0, 0, \frac{32}{1145}\sqrt{947}e^{12}, \frac{32}{1145}\sqrt{597}e^{13},$ $\frac{32}{1145}\sqrt{966}e^{16} + \frac{384}{1145}\sqrt{5}e^{24}, \frac{32}{1145}\sqrt{379}e^{17} + \frac{32}{1145}\sqrt{57}e^{26} + \frac{32}{1145}\sqrt{426}e^{45}$	$(\frac{208}{1145}, -\frac{48}{1145}, -\frac{304}{1145}, \frac{416}{1145}, -\frac{304}{1145}, \frac{32}{229}, -\frac{96}{1145}, \frac{368}{1145}, \frac{112}{1145})$ $+ \frac{32}{1145}\sqrt{1023}e^1 \otimes e_3$	{12458, 1456, 234689, 349}
942: 230	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{646}e^{12}, \frac{6}{31}\sqrt{19}e^{13}, \frac{2}{31}\sqrt{57}e^{16} + \frac{1}{31}\sqrt{874}e^{24},$ $\frac{2}{31}\sqrt{133}e^{17} + \frac{6}{31}\sqrt{57}e^{26} + \frac{31}{31}\sqrt{38}e^{45}$	$(-\frac{5}{31}, \frac{4}{31}, \frac{13}{31}, -\frac{10}{31}, \frac{13}{31}, -\frac{1}{31}, \frac{8}{31}, -\frac{6}{31}, \frac{3}{31})$ $+ \frac{3}{31}\sqrt{114}e^3 \otimes e_8$	{139, 258}
942: 230	$0, 0, 0, 0, 0, \frac{32}{1145}\sqrt{947}e^{12}, \frac{32}{1145}\sqrt{597}e^{13},$ $\frac{32}{1145}\sqrt{966}e^{16} + \frac{384}{1145}\sqrt{5}e^{24}, \frac{32}{1145}\sqrt{379}e^{17} + \frac{32}{1145}\sqrt{57}e^{26} + \frac{32}{1145}\sqrt{426}e^{45}$	$(\frac{208}{1145}, -\frac{48}{1145}, -\frac{304}{1145}, \frac{416}{1145}, -\frac{304}{1145}, \frac{32}{229}, -\frac{96}{1145}, \frac{368}{1145}, \frac{112}{1145})$ $- \frac{32}{1145}\sqrt{1023}e^1 \otimes e_3$	{12458, 1456, 234689, 349}
942: 231	$0, 0, 0, 0, 0, \frac{8}{583}\sqrt{165}e^{12}, \frac{4}{583}\sqrt{1385}e^{13}, \frac{4}{583}\sqrt{910}e^{14} + \frac{4}{583}\sqrt{1165}e^{26},$ $\frac{4}{583}\sqrt{1490}e^{16} + \frac{8}{583}\sqrt{385}e^{37} + \frac{4}{583}\sqrt{215}e^{45}$	$(\frac{34}{583}, -\frac{38}{583}, -\frac{2}{583}, -\frac{76}{583}, \frac{2}{11}, -\frac{4}{583}, \frac{32}{583}, -\frac{42}{583}, \frac{30}{583})$ $+ \frac{40}{583}\sqrt{26}e^3 \otimes e_8$	{1234569, 468}
942: 231	$0, 0, 0, 0, 0, \frac{246}{2753}\sqrt{26}e^{12}, \frac{164}{2753}\sqrt{41}e^{13},$ $\frac{164}{2753}\sqrt{323}e^{14} + \frac{902}{2753}\sqrt{2}e^{26}, \frac{164}{2753}\sqrt{35}e^{16} + \frac{82}{2753}\sqrt{303}e^{37} + \frac{574}{2753}\sqrt{7}e^{45}$	$(-\frac{328}{2753}, \frac{902}{2753}, \frac{287}{2753}, \frac{1804}{2753}, -\frac{1558}{2753}, \frac{574}{2753}, -\frac{41}{2753}, \frac{1476}{2753}, \frac{246}{2753})$ $+ \frac{82}{2753}\sqrt{2327}e^4 \otimes e_5$	{13578, 158}
942: 233	$0, 0, 0, 0, 0, -\frac{17}{373}\sqrt{22}e^{12}, \frac{34}{373}\sqrt{17}e^{13}, \frac{51}{373}\sqrt{33}e^{16} + \frac{51}{373}\sqrt{13}e^{24},$ $\frac{17}{373}\sqrt{194}e^{26} + \frac{17}{373}\sqrt{13}e^{37} + \frac{51}{373}\sqrt{30}e^{45}$	$(-\frac{68}{373}, \frac{85}{373}, \frac{85}{373}, -\frac{136}{373}, \frac{238}{373}, \frac{17}{373}, \frac{17}{373}, -\frac{51}{373}, \frac{102}{373})$ $+ \frac{17}{373}\sqrt{631}e^5 \otimes e_8$	{12378, 128, 359, 579, 12378, 128, 359, 579}
942: 233	$0, 0, 0, 0, 0, \frac{17}{373}\sqrt{22}e^{12}, \frac{34}{373}\sqrt{17}e^{13}, \frac{51}{373}\sqrt{33}e^{16} + \frac{51}{373}\sqrt{13}e^{24},$ $\frac{17}{373}\sqrt{194}e^{26} + \frac{17}{373}\sqrt{13}e^{37} + \frac{51}{373}\sqrt{30}e^{45}$	$(-\frac{68}{373}, \frac{85}{373}, \frac{85}{373}, -\frac{136}{373}, \frac{238}{373}, \frac{17}{373}, \frac{17}{373}, -\frac{51}{373}, \frac{102}{373})$ $+ \frac{17}{373}\sqrt{631}e^5 \otimes e_8$	{12378, 128, 359, 579, 12378, 128, 359, 579}
942: 233	$0, 0, 0, 0, 0, -\frac{205}{1429}\sqrt{19}e^{12}, \frac{41}{1429}\sqrt{451}e^{13},$ $\frac{41}{1429}\sqrt{418}e^{16} + \frac{41}{1429}\sqrt{1434}e^{24}, \frac{41}{1429}\sqrt{19}e^{26} + \frac{41}{1429}\sqrt{337}e^{37} + \frac{82}{1429}\sqrt{95}e^{45}$	$(\frac{451}{1429}, -\frac{164}{1429}, -\frac{164}{1429}, \frac{902}{1429}, -\frac{779}{1429}, \frac{287}{1429}, \frac{287}{1429}, \frac{738}{1429}, \frac{123}{1429})$ $+ \frac{41}{1429}\sqrt{2398}e^4 \otimes e_5$	{23578, 258, 3567, 56, 23578, 258, 3567, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:233	$0, 0, 0, 0, 0, \frac{205}{1429}\sqrt{19}e^{12}, \frac{41}{1429}\sqrt{451}e^{13},$ $\frac{41}{1429}\sqrt{418}e^{16} + \frac{41}{1429}\sqrt{1434}e^{24}, \frac{123}{1429}\sqrt{19}e^{26} + \frac{41}{1429}\sqrt{337}e^{37} + \frac{82}{1429}\sqrt{95}e^{45}$	$(\frac{451}{1429}, -\frac{164}{1429}, -\frac{164}{1429}, \frac{902}{1429}, -\frac{779}{1429}, \frac{287}{1429}, \frac{287}{1429}, \frac{738}{1429}, \frac{123}{1429})$ $+ \frac{41}{1429}\sqrt{2398}e^4 \otimes e_5$	{23578, 258, 3567, 56, 23578, 258, 3567, 56}
942:233	$0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{10}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{2}{9}e^{16} + \frac{2}{9}\sqrt{5}e^{24},$ $\frac{1}{9}\sqrt{10}e^{26} + \frac{1}{3}\sqrt{2}e^{37} + \frac{2}{9}\sqrt{2}e^{45}$	$(-\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, 0, 0, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{4}{9}\sqrt{2}e^3 \otimes e_8$	{1234569, 145789, 2347, 468, 1234569, 145789, 2347, 468}
942:233	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{1}{9}\sqrt{14}e^{13}, \frac{2}{9}e^{16} + \frac{2}{9}\sqrt{5}e^{24},$ $\frac{1}{9}\sqrt{10}e^{26} + \frac{1}{3}\sqrt{2}e^{37} + \frac{2}{9}\sqrt{2}e^{45}$	$(-\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, 0, 0, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{4}{9}\sqrt{2}e^3 \otimes e_8$	{1234569, 145789, 2347, 468, 1234569, 145789, 2347, 468}
942:235	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{10}e^{12}, \frac{2}{21}\sqrt{15}e^{13}, \frac{1}{21}\sqrt{170}e^{16} + \frac{1}{3}\sqrt{10}e^{34},$ $\frac{2}{21}\sqrt{30}e^{17} + \frac{2}{21}\sqrt{35}e^{26} + \frac{1}{21}\sqrt{190}e^{45}$	$(\frac{5}{21}, 0, -\frac{5}{21}, \frac{5}{7}, -\frac{10}{21}, \frac{5}{21}, 0, \frac{10}{21}, \frac{5}{21})$ $+ \frac{1}{21}\sqrt{870}e^4 \otimes e_5$	{2346, 358}
942:236	$0, 0, 0, 0, 0, -\frac{451}{1429}\sqrt{2}e^{12}, \frac{41}{1429}\sqrt{266}e^{13},$ $\frac{41}{1429}\sqrt{418}e^{16} + \frac{41}{1429}\sqrt{1434}e^{34}, \frac{41}{1429}\sqrt{546}e^{26} + \frac{82}{1429}\sqrt{95}e^{37} + \frac{82}{1429}\sqrt{95}e^{45}$	$(\frac{451}{1429}, -\frac{164}{1429}, -\frac{164}{1429}, \frac{902}{1429}, -\frac{779}{1429}, \frac{287}{1429}, \frac{287}{1429}, \frac{738}{1429}, \frac{123}{1429})$ $+ \frac{41}{1429}\sqrt{2398}e^4 \otimes e_5$	{2346, 2567, 358, 478, 2346, 2567, 358, 478}
942:236	$0, 0, 0, 0, 0, \frac{451}{1429}\sqrt{2}e^{12}, \frac{41}{1429}\sqrt{266}e^{13},$ $\frac{41}{1429}\sqrt{418}e^{16} + \frac{41}{1429}\sqrt{1434}e^{34}, \frac{41}{1429}\sqrt{546}e^{26} + \frac{82}{1429}\sqrt{95}e^{37} + \frac{82}{1429}\sqrt{95}e^{45}$	$(\frac{451}{1429}, -\frac{164}{1429}, -\frac{164}{1429}, \frac{902}{1429}, -\frac{779}{1429}, \frac{287}{1429}, \frac{287}{1429}, \frac{738}{1429}, \frac{123}{1429})$ $+ \frac{41}{1429}\sqrt{2398}e^4 \otimes e_5$	{2346, 2567, 358, 478, 2346, 2567, 358, 478}
942:238	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}e^{13}, \frac{2}{15}\sqrt{3}e^{26} + \frac{2}{5}\sqrt{3}e^{34},$ $\frac{2}{5}\sqrt{3}e^{16} + \frac{4}{15}\sqrt{3}e^{37} + \frac{4}{15}\sqrt{3}e^{45}$	$(\frac{1}{5}, -\frac{1}{5}, 0, -\frac{1}{5}, \frac{2}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $- \frac{2}{15}\sqrt{39}e^1 \otimes e_8$	{1234579, 129, 358, 478}
942:238	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}e^{13}, \frac{2}{15}\sqrt{3}e^{26} + \frac{2}{5}\sqrt{3}e^{34},$ $\frac{2}{5}\sqrt{3}e^{16} + \frac{4}{15}\sqrt{3}e^{37} + \frac{4}{15}\sqrt{3}e^{45}$	$(\frac{1}{5}, -\frac{1}{5}, 0, -\frac{1}{5}, \frac{2}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{15}\sqrt{39}e^1 \otimes e_8$	{1234579, 129, 358, 478}
942:238	$0, 0, 0, 0, 0, \frac{104}{1673}\sqrt{3}e^{12}, \frac{52}{1673}\sqrt{251}e^{13},$ $\frac{52}{1673}\sqrt{717}e^{26} + \frac{104}{1673}\sqrt{2}e^{34}, \frac{52}{1673}\sqrt{470}e^{16} + \frac{156}{1673}\sqrt{2}e^{37} + \frac{156}{1673}\sqrt{79}e^{45}$	$(\frac{494}{1673}, -\frac{442}{1673}, \frac{26}{1673}, -\frac{416}{1673}, \frac{962}{1673}, \frac{52}{1673}, \frac{520}{1673}, -\frac{390}{1673}, \frac{78}{239})$ $+ \frac{156}{1673}\sqrt{154}e^5 \otimes e_8$	{134689, 2456}
942:238	$0, 0, 0, 0, 0, \frac{28}{437}\sqrt{30}e^{12}, \frac{14}{437}\sqrt{77}e^{13}, \frac{56}{437}\sqrt{15}e^{26} + \frac{14}{437}\sqrt{203}e^{34},$ $\frac{56}{437}\sqrt{5}e^{16} + \frac{84}{437}\sqrt{5}e^{37} + \frac{84}{437}\sqrt{5}e^{45}$	$(-\frac{49}{437}, \frac{77}{437}, \frac{14}{437}, \frac{91}{437}, -\frac{112}{437}, \frac{28}{437}, -\frac{35}{437}, \frac{105}{437}, -\frac{21}{437})$ $+ \frac{42}{437}\sqrt{41}e^2 \otimes e_9$	{134689, 156789, 2367, 2456}
942:238	$0, 0, 0, 0, 0, \frac{28}{437}\sqrt{30}e^{12}, \frac{14}{437}\sqrt{77}e^{13}, \frac{56}{437}\sqrt{15}e^{26} + \frac{14}{437}\sqrt{203}e^{34},$ $\frac{56}{437}\sqrt{5}e^{16} + \frac{84}{437}\sqrt{5}e^{37} + \frac{84}{437}\sqrt{5}e^{45}$	$(-\frac{49}{437}, \frac{77}{437}, \frac{14}{437}, \frac{91}{437}, -\frac{112}{437}, \frac{28}{437}, -\frac{35}{437}, \frac{105}{437}, -\frac{21}{437})$ $- \frac{42}{437}\sqrt{41}e^2 \otimes e_9$	{134689, 156789, 2367, 2456}
942:238	$0, 0, 0, 0, 0, \frac{5}{14}\sqrt{3}e^{12}, \frac{1}{14}\sqrt{190}e^{13}, \frac{1}{14}\sqrt{165}e^{26} + \frac{1}{28}\sqrt{1270}e^{34},$ $\frac{5}{28}\sqrt{34}e^{16} + \frac{3}{28}\sqrt{55}e^{37} + \frac{3}{28}\sqrt{55}e^{45}$	$(-\frac{5}{28}, \frac{5}{14}, \frac{5}{56}, \frac{25}{56}, -\frac{25}{56}, \frac{5}{28}, -\frac{5}{56}, \frac{15}{28}, 0)$ $+ \frac{3}{14}\sqrt{35}e^4 \otimes e_5$	{358, 478}
942:240	$0, 0, 0, 0, 0, -\frac{8}{65}\sqrt{15}e^{12}, \frac{4}{13}\sqrt{2}e^{13}, \frac{8}{65}\sqrt{5}e^{16} + \frac{4}{65}\sqrt{70}e^{45},$ $\frac{32}{65}\sqrt{5}e^{14} + \frac{4}{13}\sqrt{2}e^{26} + \frac{8}{65}\sqrt{15}e^{37}$	$(-\frac{2}{13}, \frac{4}{13}, \frac{4}{13}, \frac{8}{13}, -\frac{8}{13}, \frac{2}{13}, \frac{2}{13}, 0, \frac{6}{13})$ $+ \frac{16}{65}\sqrt{35}e^4 \otimes e_5$	{13579, 159, 356, 567, 13579, 159, 356, 567}
942:240	$0, 0, 0, 0, 0, \frac{8}{65}\sqrt{15}e^{12}, \frac{4}{13}\sqrt{2}e^{13}, \frac{8}{65}\sqrt{5}e^{16} + \frac{4}{65}\sqrt{70}e^{45},$ $\frac{32}{65}\sqrt{5}e^{14} + \frac{4}{13}\sqrt{2}e^{26} + \frac{8}{65}\sqrt{15}e^{37}$	$(-\frac{2}{13}, \frac{4}{13}, \frac{4}{13}, \frac{8}{13}, -\frac{8}{13}, \frac{2}{13}, \frac{2}{13}, 0, \frac{6}{13})$ $+ \frac{16}{65}\sqrt{35}e^4 \otimes e_5$	{13579, 159, 356, 567, 13579, 159, 356, 567}
942:242	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}e^{13}, \frac{4}{11}\sqrt{6}e^{16} + \frac{4}{33}\sqrt{3}e^{45},$ $\frac{4}{33}\sqrt{30}e^{17} + \frac{4}{33}\sqrt{21}e^{26} + \frac{4}{11}\sqrt{6}e^{34}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{6}{11}, -\frac{4}{11}, \frac{2}{11}, 0, \frac{4}{11}, -\frac{2}{11}, \frac{2}{11})$ $+ \frac{8}{33}\sqrt{21}e^3 \otimes e_8$	{128, 359}
942:242	$0, 0, 0, 0, 0, \frac{52}{361}\sqrt{30}e^{12}, \frac{26}{361}\sqrt{193}e^{13}, \frac{13}{361}\sqrt{817}e^{16} + \frac{78}{361}\sqrt{17}e^{45},$ $\frac{39}{361}\sqrt{71}e^{17} + \frac{13}{361}\sqrt{399}e^{26} + \frac{26}{361}\sqrt{262}e^{34}$	$(\frac{143}{722}, -\frac{26}{361}, -\frac{13}{38}, \frac{143}{361}, -\frac{26}{361}, \frac{91}{722}, -\frac{52}{361}, \frac{117}{361}, \frac{39}{722})$ $+ \frac{39}{361}\sqrt{77}e^4 \otimes e_5$	{156, 359}
942:242	$0, 0, 0, 0, 0, \frac{4}{887}\sqrt{510}e^{12}, \frac{4}{887}\sqrt{779}e^{13}, \frac{4}{887}\sqrt{998}e^{16} + \frac{12}{887}\sqrt{97}e^{45},$ $\frac{12}{887}\sqrt{94}e^{17} + \frac{4}{887}\sqrt{591}e^{26} + \frac{4}{887}\sqrt{734}e^{34}$	$(-\frac{22}{887}, \frac{14}{887}, \frac{50}{887}, -\frac{44}{887}, \frac{14}{887}, -\frac{8}{887}, \frac{28}{887}, -\frac{30}{887}, \frac{6}{887})$ $+ \frac{24}{887}\sqrt{22}e^5 \otimes e_9$	{1457, 234789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 243	$0, 0, 0, 0, 0, \frac{16}{2987}\sqrt{95e^{12}}, \frac{32}{2987}\sqrt{346e^{13}}, \frac{16}{2987}\sqrt{1330e^{26}} + \frac{16}{2987}\sqrt{795e^{45}}, \frac{16}{2987}\sqrt{1070e^{16}} + \frac{32}{2987}\sqrt{182e^{24}} + \frac{16}{2987}\sqrt{1595e^{37}}$	$(\frac{152}{2987}, -\frac{136}{2987}, \frac{8}{2987}, \frac{304}{2987}, -\frac{424}{2987}, \frac{16}{2987}, \frac{160}{2987}, -\frac{120}{2987}, \frac{168}{2987})$ $+ \frac{32}{2987}\sqrt{654e^3} \otimes e_8$	{1234569, 468}
942: 243	$0, 0, 0, 0, 0, \frac{16}{535}\sqrt{455e^{12}}, \frac{64}{107}e^{13}, \frac{16}{535}\sqrt{110e^{26}} + \frac{16}{535}\sqrt{285e^{45}}, \frac{16}{107}\sqrt{14e^{16}} + \frac{64}{535}\sqrt{85e^{24}} + \frac{16}{535}\sqrt{205e^{37}}$	$(\frac{32}{107}, -\frac{16}{107}, \frac{8}{107}, \frac{64}{107}, -\frac{64}{107}, \frac{16}{107}, \frac{40}{107}, 0, \frac{48}{107})$ $+ \frac{32}{535}\sqrt{570e^4} \otimes e_5$	{23579, 259}
942: 245	$0, 0, 0, 0, 0, \frac{52}{205}\sqrt{2e^{12}}, \frac{26}{205}\sqrt{6e^{13}}, \frac{13}{205}\sqrt{134e^{16}} + \frac{13}{205}\sqrt{74e^{23}}, \frac{13}{205}\sqrt{42e^{14}} + \frac{13}{41}\sqrt{6e^{25}} + \frac{26}{205}\sqrt{10e^{37}}$	$(\frac{13}{205}, -\frac{13}{41}, \frac{26}{205}, \frac{52}{205}, \frac{26}{41}, -\frac{52}{205}, \frac{39}{205}, -\frac{39}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^5} \otimes e_8$	{2345, 3468}
942: 245	$0, 0, 0, 0, 0, \frac{6}{103}\sqrt{51e^{12}}, \frac{6}{103}\sqrt{66e^{13}}, \frac{3}{103}\sqrt{70e^{16}} + \frac{3}{103}\sqrt{546e^{23}}, \frac{3}{103}\sqrt{546e^{14}} + \frac{3}{103}\sqrt{190e^{25}} + \frac{6}{103}\sqrt{73e^{37}}$	$(\frac{3}{103}, -\frac{21}{103}, \frac{6}{103}, \frac{12}{103}, \frac{36}{103}, -\frac{18}{103}, \frac{9}{103}, -\frac{15}{103}, \frac{15}{103})$ $+ \frac{12}{103}\sqrt{37e^4} \otimes e_8$	{125689, 278}
942: 245	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{7e^{12}}, \frac{1}{7}\sqrt{21e^{13}}, \frac{1}{7}\sqrt{7e^{16}} + \frac{1}{7}\sqrt{42e^{23}}, \frac{1}{7}\sqrt{14e^{14}} + \frac{1}{7}\sqrt{21e^{25}} + \frac{1}{7}\sqrt{7e^{37}}$	$(0, \frac{1}{2}, 0, 0, -\frac{1}{2}, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{2}{7}\sqrt{21e^2} \otimes e_5$	{236, 358}
942: 245	$0, 0, 0, 0, 0, \frac{2}{271}\sqrt{273e^{12}}, \frac{2}{271}\sqrt{159e^{13}}, \frac{1}{271}\sqrt{1182e^{16}} + \frac{3}{271}\sqrt{142e^{23}}, \frac{3}{271}\sqrt{142e^{14}} + \frac{3}{271}\sqrt{30e^{25}} + \frac{4}{271}\sqrt{51e^{37}}$	$(-\frac{1}{271}, \frac{13}{271}, -\frac{2}{271}, -\frac{4}{271}, -\frac{18}{271}, \frac{12}{271}, -\frac{3}{271}, \frac{11}{271}, -\frac{5}{271})$ $+ \frac{2}{271}\sqrt{366e^1} \otimes e_4$	{2345678, 347}
942: 246	$0, 0, 0, 0, 0, \frac{38}{2053}\sqrt{902e^{16}} + \frac{38}{2053}\sqrt{183e^{23}}, \frac{38}{2053}\sqrt{745e^{17}} + \frac{171}{2053}\sqrt{10e^{24}} + \frac{19}{2053}\sqrt{3878e^{35}}$	$(\frac{57}{2053}, -\frac{361}{2053}, \frac{114}{2053}, \frac{589}{2053}, \frac{114}{2053}, -\frac{304}{2053}, \frac{171}{2053}, -\frac{247}{2053}, \frac{228}{2053})$ $+ \frac{19}{2053}\sqrt{3738e^5} \otimes e_8$	{1234789, 234689}
942: 246	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{115e^{12}}, \frac{2}{23}\sqrt{69e^{13}}, \frac{2}{23}\sqrt{23e^{16}} + \frac{2}{23}\sqrt{69e^{23}}, \frac{1}{23}\sqrt{115e^{17}} + \frac{2}{23}\sqrt{23e^{24}} + \frac{1}{23}\sqrt{161e^{35}}$	$(0, \frac{1}{2}, 0, -\frac{1}{2}, 0, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $- \frac{1}{23}\sqrt{897e^2} \otimes e_4$	{128, 146, 2678, 47}
942: 246	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{115e^{12}}, \frac{2}{23}\sqrt{69e^{13}}, \frac{2}{23}\sqrt{23e^{16}} + \frac{2}{23}\sqrt{69e^{23}}, \frac{1}{23}\sqrt{115e^{17}} + \frac{2}{23}\sqrt{23e^{24}} + \frac{1}{23}\sqrt{161e^{35}}$	$(0, \frac{1}{2}, 0, -\frac{1}{2}, 0, \frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{1}{23}\sqrt{897e^2} \otimes e_4$	{128, 146, 2678, 47}
942: 247	$0, 0, 0, 0, 0, -\frac{35}{46}e^{12}, \frac{7}{46}\sqrt{15e^{13}}, \frac{7}{23}\sqrt{5e^{16}} + \frac{7}{46}\sqrt{37e^{23}}, \frac{28}{23}e^{14} + \frac{7}{46}\sqrt{15e^{26}} + \frac{35}{46}e^{37}$	$(\frac{7}{92}, \frac{7}{46}, \frac{7}{46}, \frac{7}{23}, -\frac{35}{46}, \frac{21}{92}, \frac{21}{92}, \frac{7}{23}, \frac{35}{92})$ $+ \frac{63}{46}e^4 \otimes e_5$	{125689, 159, 2578, 567, 125689, 159, 2578, 567}
942: 247	$0, 0, 0, 0, 0, \frac{35}{46}e^{12}, \frac{7}{46}\sqrt{15e^{13}}, \frac{7}{23}\sqrt{5e^{16}} + \frac{7}{46}\sqrt{37e^{23}}, \frac{28}{23}e^{14} + \frac{7}{46}\sqrt{15e^{26}} + \frac{35}{46}e^{37}$	$(\frac{7}{92}, \frac{7}{46}, \frac{7}{46}, \frac{7}{23}, -\frac{35}{46}, \frac{21}{92}, \frac{21}{92}, \frac{7}{23}, \frac{35}{92})$ $+ \frac{63}{46}e^4 \otimes e_5$	{125689, 159, 2578, 567, 125689, 159, 2578, 567}
942: 247	$0, 0, 0, 0, 0, -\frac{13}{205}\sqrt{134e^{12}}, \frac{26}{205}\sqrt{6e^{13}}, \frac{52}{205}\sqrt{2e^{16}} + \frac{13}{205}\sqrt{74e^{23}}, \frac{13}{205}\sqrt{42e^{14}} + \frac{13}{41}\sqrt{6e^{26}} + \frac{26}{205}\sqrt{10e^{37}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, \frac{52}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^2} \otimes e_5$	{123479, 13456789, 2346, 3458, 123479, 13456789, 2346, 3458}
942: 247	$0, 0, 0, 0, 0, \frac{13}{205}\sqrt{134e^{12}}, \frac{26}{205}\sqrt{6e^{13}}, \frac{52}{205}\sqrt{2e^{16}} + \frac{13}{205}\sqrt{74e^{23}}, \frac{13}{205}\sqrt{42e^{14}} + \frac{13}{41}\sqrt{6e^{26}} + \frac{26}{205}\sqrt{10e^{37}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, \frac{52}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^2} \otimes e_5$	{123479, 13456789, 2346, 3458, 123479, 13456789, 2346, 3458}
942: 247	$0, 0, 0, 0, 0, -\frac{1}{29}\sqrt{29e^{12}}, \frac{1}{29}\sqrt{87e^{13}}, \frac{2}{29}\sqrt{29e^{16}} + \frac{1}{29}\sqrt{174e^{23}}, \frac{1}{29}\sqrt{290e^{14}} + \frac{1}{29}\sqrt{435e^{26}} + \frac{1}{29}\sqrt{377e^{37}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{4}{29}\sqrt{87e^5} \otimes e_9$	{1279, 16789, 256, 58, 1279, 16789, 256, 58}
942: 247	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{29e^{12}}, \frac{1}{29}\sqrt{87e^{13}}, \frac{2}{29}\sqrt{29e^{16}} + \frac{1}{29}\sqrt{174e^{23}}, \frac{1}{29}\sqrt{290e^{14}} + \frac{1}{29}\sqrt{435e^{26}} + \frac{1}{29}\sqrt{377e^{37}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{4}{29}\sqrt{87e^5} \otimes e_9$	{1279, 16789, 256, 58, 1279, 16789, 256, 58}
942: 247	$0, 0, 0, 0, 0, -\frac{26}{205}\sqrt{10e^{12}}, \frac{13}{41}\sqrt{6e^{13}}, \frac{52}{205}\sqrt{2e^{16}} + \frac{13}{205}\sqrt{74e^{23}}, \frac{13}{205}\sqrt{42e^{14}} + \frac{26}{205}\sqrt{6e^{26}} + \frac{13}{205}\sqrt{134e^{37}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, \frac{52}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^3} \otimes e_5$	{12456789, 14579, 2458, 456, 12456789, 14579, 2458, 456}
942: 247	$0, 0, 0, 0, 0, \frac{26}{205}\sqrt{10e^{12}}, \frac{13}{41}\sqrt{6e^{13}}, \frac{52}{205}\sqrt{2e^{16}} + \frac{13}{205}\sqrt{74e^{23}}, \frac{13}{205}\sqrt{42e^{14}} + \frac{26}{205}\sqrt{6e^{26}} + \frac{13}{205}\sqrt{134e^{37}}$	$(\frac{13}{205}, \frac{26}{205}, \frac{26}{205}, \frac{52}{205}, -\frac{143}{205}, \frac{39}{205}, \frac{39}{205}, \frac{52}{205}, \frac{13}{41})$ $+ \frac{26}{205}\sqrt{87e^3} \otimes e_5$	{12456789, 14579, 2458, 456, 12456789, 14579, 2458, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 247	$0, 0, 0, 0, 0, -\frac{1}{271}\sqrt{1182e^{12}}, \frac{2}{271}\sqrt{159e^{13}}, \frac{2}{271}\sqrt{273e^{16}} + \frac{3}{271}\sqrt{142e^{23}},$ $\frac{3}{271}\sqrt{142e^{14}} + \frac{3}{271}\sqrt{30e^{26}} + \frac{4}{271}\sqrt{51e^{37}}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, -\frac{4}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+\frac{2}{271}\sqrt{366e^1} \otimes e_4$	{2345678, 234678, 3457, 347, 2345678, 234678, 3457, 347}
942: 247	$0, 0, 0, 0, 0, \frac{1}{271}\sqrt{1182e^{12}}, \frac{2}{271}\sqrt{159e^{13}}, \frac{2}{271}\sqrt{273e^{16}} + \frac{3}{271}\sqrt{142e^{23}},$ $\frac{3}{271}\sqrt{142e^{14}} + \frac{3}{271}\sqrt{30e^{26}} + \frac{4}{271}\sqrt{51e^{37}}$	$(-\frac{1}{271}, -\frac{2}{271}, -\frac{2}{271}, -\frac{4}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{3}{271}, -\frac{4}{271}, -\frac{5}{271})$ $+\frac{2}{271}\sqrt{366e^1} \otimes e_4$	{2345678, 234678, 3457, 347, 2345678, 234678, 3457, 347}
942: 247	$0, 0, 0, 0, 0, -\frac{1}{7}\sqrt{7e^{12}}, \frac{1}{7}\sqrt{21e^{13}}, \frac{2}{7}\sqrt{7e^{16}} + \frac{1}{7}\sqrt{42e^{23}},$ $\frac{1}{7}\sqrt{14e^{14}} + \frac{1}{7}\sqrt{21e^{26}} + \frac{1}{7}\sqrt{7e^{37}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21e^5} \otimes e_8$	{1235679, 13789, 235, 368, 1235679, 13789, 235, 368}
942: 247	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7e^{12}}, \frac{1}{7}\sqrt{21e^{13}}, \frac{2}{7}\sqrt{7e^{16}} + \frac{1}{7}\sqrt{42e^{23}},$ $\frac{1}{7}\sqrt{14e^{14}} + \frac{1}{7}\sqrt{21e^{26}} + \frac{1}{7}\sqrt{7e^{37}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{2}{7}\sqrt{21e^5} \otimes e_8$	{1235679, 13789, 235, 368, 1235679, 13789, 235, 368}
942: 249	$0, 0, 0, 0, 0, \frac{86}{2101}\sqrt{545e^{12}}, \frac{43}{2101}\sqrt{1902e^{13}},$ $\frac{1462}{2101}\sqrt{2e^{16}} + \frac{86}{2101}\sqrt{426e^{23}}, \frac{43}{2101}\sqrt{2338e^{17}} + \frac{258}{2101}\sqrt{11e^{26}} + \frac{43}{2101}\sqrt{3514e^{34}}$	$(\frac{172}{2101}, \frac{258}{2101}, \frac{344}{2101}, \frac{344}{2101}, -\frac{1505}{2101}, \frac{430}{2101}, \frac{516}{2101}, \frac{602}{2101}, \frac{688}{2101})$ $+\frac{43}{2101}\sqrt{3606e^4} \otimes e_5$	{235689, 359}
942: 249	$0, 0, 0, 0, 0, \frac{7}{181}\sqrt{435e^{12}}, \frac{14}{181}\sqrt{33e^{13}}, \frac{7}{181}\sqrt{3e^{16}} + \frac{14}{181}\sqrt{33e^{23}},$ $\frac{7}{181}\sqrt{219e^{17}} + \frac{7}{181}\sqrt{393e^{26}} + \frac{7}{181}\sqrt{3e^{34}}$	$(\frac{14}{181}, \frac{21}{181}, \frac{28}{181}, \frac{28}{181}, -\frac{126}{181}, \frac{35}{181}, \frac{42}{181}, \frac{49}{181}, \frac{56}{181})$ $+\frac{7}{181}\sqrt{921e^2} \otimes e_5$	{123479, 13456789}
942: 249	$0, 0, 0, 0, 0, \frac{43}{2101}\sqrt{1426e^{12}}, \frac{86}{2101}\sqrt{426e^{13}},$ $\frac{43}{2101}\sqrt{1294e^{16}} + \frac{43}{2101}\sqrt{1902e^{23}}, \frac{86}{2101}\sqrt{317e^{17}} + \frac{258}{2101}\sqrt{11e^{26}} + \frac{86}{2101}\sqrt{23e^{34}}$	$(\frac{172}{2101}, \frac{258}{2101}, \frac{344}{2101}, \frac{344}{2101}, -\frac{1505}{2101}, \frac{430}{2101}, \frac{516}{2101}, \frac{602}{2101}, \frac{688}{2101})$ $+\frac{43}{2101}\sqrt{3606e^3} \otimes e_5$	{2458, 456}
942: 249	$0, 0, 0, 0, 0, \frac{661}{661}\sqrt{2274e^{12}}, \frac{2}{661}\sqrt{786e^{13}}, \frac{1}{661}\sqrt{3990e^{16}} + \frac{1}{661}\sqrt{570e^{23}},$ $\frac{661}{661}\sqrt{714e^{17}} + \frac{661}{661}\sqrt{1434e^{26}} + \frac{1}{661}\sqrt{3990e^{34}}$	$(-\frac{2}{661}, -\frac{3}{661}, -\frac{4}{661}, -\frac{4}{661}, \frac{42}{661}, \frac{661}{661}, -\frac{5}{661}, -\frac{6}{661}, -\frac{7}{661}, -\frac{8}{661})$ $+\frac{1}{661}\sqrt{3714e^4} \otimes e_8$	{235689, 23689}
942: 249	$0, 0, 0, 0, 0, \frac{41}{2245}\sqrt{1326e^{16}} + \frac{41}{2245}\sqrt{906e^{23}}, \frac{41}{2245}\sqrt{26e^{17}} + \frac{41}{2245}\sqrt{138e^{26}} + \frac{246}{2245}\sqrt{2e^{34}}$ $\frac{656}{2245}\sqrt{5e^{12}}, \frac{41}{2245}\sqrt{906e^{13}}$	$(\frac{164}{2245}, \frac{246}{2245}, \frac{328}{2245}, \frac{328}{2245}, -\frac{1517}{2245}, \frac{82}{2245}, \frac{492}{2245}, \frac{574}{2245}, \frac{656}{2245})$ $+\frac{123}{2245}\sqrt{418e^1} \otimes e_5$	{2356789, 3579}
942: 249	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{94e^{12}}, \frac{1}{47}\sqrt{282e^{13}}, \frac{1}{47}\sqrt{470e^{16}} + \frac{1}{47}\sqrt{282e^{23}},$ $\frac{1}{47}\sqrt{1034e^{17}} + \frac{2}{47}\sqrt{282e^{26}} + \frac{4}{47}\sqrt{47e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{47}\sqrt{3666e^5} \otimes e_9$	{23789, 3679}
942: 249	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{23e^{12}}, \frac{2}{23}\sqrt{69e^{13}}, \frac{2}{23}\sqrt{115e^{16}} + \frac{2}{23}\sqrt{69e^{23}},$ $\frac{1}{23}\sqrt{115e^{17}} + \frac{3}{23}\sqrt{23e^{26}} + \frac{1}{23}\sqrt{161e^{34}}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{23}\sqrt{897e^5} \otimes e_8$	{128, 156}
942: 250	$0, 0, 0, 0, 0, \frac{86}{4467}\sqrt{187e^{12}}, \frac{43}{4467}\sqrt{2406e^{13}},$ $\frac{86}{4467}\sqrt{1102e^{16}} + \frac{86}{4467}\sqrt{771e^{23}}, \frac{430}{4467}\sqrt{19e^{17}} + \frac{86}{4467}\sqrt{767e^{26}} + \frac{43}{4467}\sqrt{4634e^{45}}$	$(\frac{86}{4467}, \frac{43}{1489}, \frac{172}{4467}, \frac{2150}{4467}, -\frac{602}{1489}, \frac{215}{4467}, \frac{86}{1489}, \frac{301}{4467}, \frac{344}{4467})$ $+\frac{86}{4467}\sqrt{1978e^4} \otimes e_8$	{128, 1456}
942: 251	$0, 0, 0, 0, 0, -\frac{25}{786}\sqrt{182e^{12}}, \frac{25}{786}\sqrt{102e^{13}}, \frac{50}{393}\sqrt{10e^{16}} + \frac{25}{393}e^{23},$ $\frac{25}{786}\sqrt{66e^{26}} + \frac{25}{786}\sqrt{146e^{37}} + \frac{50}{131}e^{45}$	$(\frac{25}{393}, \frac{50}{393}, \frac{50}{393}, \frac{125}{131}, -\frac{250}{393}, \frac{25}{131}, \frac{25}{131}, \frac{100}{393}, \frac{125}{393})$ $+\frac{625}{393}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 123489, 123589, 13469, 13569}
942: 251	$0, 0, 0, 0, 0, \frac{25}{786}\sqrt{182e^{12}}, \frac{25}{786}\sqrt{102e^{13}}, \frac{50}{393}\sqrt{10e^{16}} + \frac{25}{393}e^{23},$ $\frac{25}{786}\sqrt{66e^{26}} + \frac{25}{786}\sqrt{146e^{37}} + \frac{50}{131}e^{45}$	$(\frac{25}{393}, \frac{50}{393}, \frac{50}{393}, \frac{125}{131}, -\frac{250}{393}, \frac{25}{131}, \frac{25}{131}, \frac{100}{393}, \frac{125}{393})$ $+\frac{625}{393}e^4 \otimes e_5$	{123489, 123589, 13469, 13569, 123489, 123589, 13469, 13569}
942: 251	$0, 0, 0, 0, 0, -\frac{10}{297}\sqrt{35e^{12}}, \frac{5}{297}\sqrt{690e^{13}}, \frac{50}{297}\sqrt{11e^{16}} + \frac{5}{297}\sqrt{1430e^{23}},$ $\frac{5}{297}\sqrt{1070e^{26}} + \frac{10}{297}\sqrt{130e^{37}} + \frac{20}{297}\sqrt{95e^{45}}$	$(\frac{5}{297}, \frac{10}{297}, \frac{10}{297}, \frac{145}{297}, -\frac{40}{99}, \frac{5}{99}, \frac{5}{99}, \frac{20}{297}, \frac{25}{297})$ $+\frac{25}{297}\sqrt{106e^4} \otimes e_8$	{1234679, 135789, 2345, 368, 1234679, 135789, 2345, 368}
942: 251	$0, 0, 0, 0, 0, \frac{10}{297}\sqrt{35e^{12}}, \frac{5}{297}\sqrt{690e^{13}}, \frac{50}{297}\sqrt{11e^{16}} + \frac{5}{297}\sqrt{1430e^{23}},$ $\frac{5}{297}\sqrt{1070e^{26}} + \frac{10}{297}\sqrt{130e^{37}} + \frac{20}{297}\sqrt{95e^{45}}$	$(\frac{5}{297}, \frac{10}{297}, \frac{10}{297}, \frac{145}{297}, -\frac{40}{99}, \frac{5}{99}, \frac{5}{99}, \frac{20}{297}, \frac{25}{297})$ $+\frac{25}{297}\sqrt{106e^4} \otimes e_8$	{1234679, 135789, 2345, 368, 1234679, 135789, 2345, 368}
942: 253	$0, 0, 0, 0, 0, \frac{260}{563}\sqrt{3e^{12}}, \frac{26}{563}\sqrt{65e^{13}}, \frac{26}{563}\sqrt{213e^{14}} + \frac{208}{563}e^{26},$ $\frac{26}{563}\sqrt{281e^{16}} + \frac{78}{563}\sqrt{21e^{25}} + \frac{26}{563}\sqrt{7e^{37}}$	$(\frac{130}{563}, -\frac{104}{563}, \frac{13}{563}, -\frac{208}{563}, \frac{260}{563}, \frac{26}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+\frac{52}{563}\sqrt{123e^1} \otimes e_4$	{2345679, 24569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 253	$0, 0, 0, 0, 0, \frac{25}{1129}\sqrt{561}e^{12}, \frac{125}{1129}\sqrt{7}e^{13},$ $\frac{25}{1129}\sqrt{1158}e^{14} + \frac{25}{1129}\sqrt{689}e^{26}, \frac{25}{1129}\sqrt{209}e^{16} + \frac{75}{1129}\sqrt{109}e^{25} + \frac{50}{1129}\sqrt{89}e^{37}$	$(-\frac{175}{1129}, \frac{275}{1129}, \frac{50}{1129}, \frac{550}{1129}, -\frac{350}{1129}, \frac{100}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+ \frac{25}{1129}\sqrt{1977}e^4 \otimes e_9$	{3569, 5679}
942: 253	$0, 0, 0, 0, 0, \frac{50}{1129}\sqrt{354}e^{12}, \frac{125}{1129}\sqrt{7}e^{13},$ $\frac{75}{1129}\sqrt{91}e^{14} + \frac{50}{1129}\sqrt{322}e^{26}, \frac{25}{1129}\sqrt{209}e^{16} + \frac{50}{1129}\sqrt{249}e^{25} + \frac{50}{1129}\sqrt{89}e^{37}$	$(-\frac{175}{1129}, \frac{275}{1129}, \frac{50}{1129}, \frac{550}{1129}, -\frac{350}{1129}, \frac{100}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+ \frac{25}{1129}\sqrt{1977}e^2 \otimes e_5$	{1345678, 14568}
942: 253	$0, 0, 0, 0, 0, \frac{208}{563}\sqrt{3}e^{12}, \frac{26}{563}\sqrt{65}e^{13}, \frac{78}{563}\sqrt{31}e^{14} + \frac{208}{563}e^{26},$ $\frac{26}{563}\sqrt{211}e^{16} + \frac{26}{563}\sqrt{303}e^{25} + \frac{26}{563}\sqrt{7}e^{37}$	$(\frac{130}{563}, -\frac{104}{563}, \frac{13}{563}, -\frac{208}{563}, \frac{260}{563}, \frac{26}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+ \frac{52}{563}\sqrt{123}e^5 \otimes e_8$	{234789, 2489}
942: 253	$0, 0, 0, 0, 0, \frac{7}{247}\sqrt{38}e^{12}, \frac{1}{247}\sqrt{4522}e^{13}, \frac{2}{247}\sqrt{627}e^{14} + \frac{2}{247}\sqrt{1007}e^{26},$ $\frac{1}{247}\sqrt{4826}e^{16} + \frac{2}{247}\sqrt{95}e^{25} + \frac{16}{247}\sqrt{19}e^{37}$	$(\frac{1}{13}, -\frac{1}{13}, 0, -\frac{2}{13}, \frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{247}\sqrt{8322}e^3 \otimes e_8$	{1234569, 4568}
942: 255	$0, 0, 0, 0, 0, -\frac{65}{277}\sqrt{6}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{52}{277}\sqrt{17}e^{24},$ $\frac{91}{277}\sqrt{6}e^{15} + \frac{26}{277}\sqrt{47}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{91}{277}\sqrt{10}e^5 \otimes e_8$	{134789, 1489, 3468, 4678, 134789, 1489, 3468, 4678}
942: 255	$0, 0, 0, 0, 0, \frac{65}{277}\sqrt{6}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{52}{277}\sqrt{17}e^{24},$ $\frac{91}{277}\sqrt{6}e^{15} + \frac{26}{277}\sqrt{47}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{91}{277}\sqrt{10}e^5 \otimes e_8$	{134789, 1489, 3468, 4678, 134789, 1489, 3468, 4678}
942: 255	$0, 0, 0, 0, 0, -\frac{26}{277}\sqrt{85}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{218}e^{24},$ $\frac{182}{277}e^{15} + \frac{13}{277}\sqrt{302}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{91}{277}\sqrt{10}e^2 \otimes e_4$	{1345679, 14569, 345, 457, 1345679, 14569, 345, 457}
942: 255	$0, 0, 0, 0, 0, \frac{26}{277}\sqrt{85}e^{12}, \frac{26}{277}\sqrt{13}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{218}e^{24},$ $\frac{182}{277}e^{15} + \frac{13}{277}\sqrt{302}e^{26} + \frac{13}{277}\sqrt{14}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{91}{277}\sqrt{10}e^2 \otimes e_4$	{1345679, 14569, 345, 457, 1345679, 14569, 345, 457}
942: 255	$0, 0, 0, 0, 0, -\frac{9}{596}\sqrt{370}e^{12}, \frac{9}{596}\sqrt{878}e^{13}, \frac{9}{298}\sqrt{134}e^{16} + \frac{9}{298}\sqrt{238}e^{24},$ $\frac{9}{149}\sqrt{26}e^{15} + \frac{9}{596}\sqrt{638}e^{26} + \frac{9}{596}\sqrt{1146}e^{37}$	$(-\frac{81}{596}, \frac{45}{298}, \frac{45}{298}, -\frac{81}{298}, \frac{45}{149}, \frac{9}{596}, \frac{9}{596}, -\frac{18}{149}, \frac{99}{596})$ $+ \frac{9}{149}\sqrt{130}e^3 \otimes e_8$	{1234569, 145789, 23457, 4568, 1234569, 145789, 23457, 4568}
942: 255	$0, 0, 0, 0, 0, \frac{9}{596}\sqrt{370}e^{12}, \frac{9}{596}\sqrt{878}e^{13}, \frac{9}{298}\sqrt{134}e^{16} + \frac{9}{298}\sqrt{238}e^{24},$ $\frac{9}{149}\sqrt{26}e^{15} + \frac{9}{596}\sqrt{638}e^{26} + \frac{9}{596}\sqrt{1146}e^{37}$	$(-\frac{81}{596}, \frac{45}{298}, \frac{45}{298}, -\frac{81}{298}, \frac{45}{149}, \frac{9}{596}, \frac{9}{596}, -\frac{18}{149}, \frac{99}{596})$ $+ \frac{9}{149}\sqrt{130}e^3 \otimes e_8$	{1234569, 145789, 23457, 4568, 1234569, 145789, 23457, 4568}
942: 255	$0, 0, 0, 0, 0, -\frac{5}{233}\sqrt{1285}e^{12}, \frac{25}{233}\sqrt{11}e^{13}, \frac{5}{233}\sqrt{1230}e^{16} + \frac{5}{233}\sqrt{790}e^{24},$ $\frac{5}{233}\sqrt{1010}e^{15} + \frac{5}{233}\sqrt{165}e^{26} + \frac{5}{233}\sqrt{385}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{505}e^1 \otimes e_5$	{2345678, 24568, 3457, 45, 2345678, 24568, 3457, 45}
942: 255	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{1285}e^{12}, \frac{25}{233}\sqrt{11}e^{13}, \frac{5}{233}\sqrt{1230}e^{16} + \frac{5}{233}\sqrt{790}e^{24},$ $\frac{5}{233}\sqrt{1010}e^{15} + \frac{5}{233}\sqrt{165}e^{26} + \frac{5}{233}\sqrt{385}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{505}e^1 \otimes e_5$	{2345678, 24568, 3457, 45, 2345678, 24568, 3457, 45}
942: 257	$0, 0, 0, 0, 0, \frac{840}{2311}e^{12}, \frac{35}{2311}\sqrt{746}e^{13}, \frac{140}{2311}\sqrt{74}e^{16} + \frac{140}{2311}\sqrt{111}e^{24},$ $\frac{35}{2311}\sqrt{138}e^{17} + \frac{105}{2311}\sqrt{146}e^{26} + \frac{140}{2311}\sqrt{111}e^{35}$	$(-\frac{280}{2311}, \frac{385}{2311}, \frac{1050}{2311}, -\frac{560}{2311}, -\frac{560}{2311}, \frac{105}{2311}, \frac{770}{2311}, -\frac{175}{2311}, \frac{490}{2311})$ $+ \frac{35}{2311}\sqrt{3966}e^3 \otimes e_8$	{145789, 23457}
942: 257	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{127}e^{12}, \frac{1}{65}\sqrt{197}e^{13}, \frac{1}{65}\sqrt{241}e^{16} + \frac{1}{65}\sqrt{3}e^{24},$ $\frac{3}{65}\sqrt{41}e^{17} + \frac{3}{65}\sqrt{11}e^{26} + \frac{4}{65}\sqrt{15}e^{35}$	$(\frac{1}{26}, -\frac{2}{65}, -\frac{1}{10}, \frac{1}{13}, \frac{1}{13}, \frac{1}{130}, -\frac{4}{65}, \frac{3}{65}, -\frac{3}{130})$ $+ \frac{9}{65}\sqrt{3}e^5 \otimes e_8$	{1248, 234689}
942: 257	$0, 0, 0, 0, 0, \frac{86}{2137}\sqrt{614}e^{12}, \frac{43}{2137}\sqrt{3754}e^{13},$ $\frac{43}{2137}\sqrt{2558}e^{16} + \frac{86}{2137}\sqrt{438}e^{24}, \frac{43}{2137}\sqrt{2410}e^{17} + \frac{129}{2137}\sqrt{34}e^{26} + \frac{43}{2137}\sqrt{1974}e^{35}$	$(-\frac{301}{2137}, \frac{473}{2137}, \frac{1247}{2137}, -\frac{602}{2137}, -\frac{602}{2137}, \frac{172}{2137}, \frac{946}{2137}, -\frac{129}{2137}, \frac{645}{2137})$ $+ \frac{387}{2137}\sqrt{46}e^3 \otimes e_5$	{125678, 157}
942: 257	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{1003}e^{12}, \frac{26}{511}\sqrt{143}e^{13},$ $\frac{13}{511}\sqrt{505}e^{16} + \frac{26}{511}\sqrt{165}e^{24}, \frac{13}{511}\sqrt{755}e^{17} + \frac{39}{511}\sqrt{61}e^{26} + \frac{13}{511}\sqrt{285}e^{35}$	$(-\frac{52}{511}, \frac{65}{511}, \frac{26}{73}, -\frac{104}{511}, -\frac{104}{511}, \frac{13}{511}, \frac{130}{511}, -\frac{39}{511}, \frac{78}{511})$ $+ \frac{39}{511}\sqrt{105}e^2 \otimes e_4$	{134679, 47}
942: 257	$0, 0, 0, 0, 0, \frac{25}{2209}\sqrt{2906}e^{12}, \frac{125}{2209}\sqrt{94}e^{13},$ $\frac{50}{2209}\sqrt{761}e^{16} + \frac{25}{2209}\sqrt{3318}e^{24}, \frac{25}{2209}\sqrt{3526}e^{17} + \frac{75}{2209}\sqrt{46}e^{26} + \frac{100}{2209}\sqrt{39}e^{35}$	$(\frac{275}{2209}, -\frac{175}{2209}, -\frac{625}{2209}, \frac{550}{2209}, \frac{550}{2209}, \frac{100}{2209}, -\frac{350}{2209}, \frac{375}{2209}, -\frac{75}{2209})$ $+ \frac{75}{2209}\sqrt{438}e^4 \otimes e_9$	{235789, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 258	$0, 0, 0, 0, 0, -\frac{13}{277}\sqrt{14}e^{12}, \frac{26}{277}\sqrt{47}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{52}{277}\sqrt{17}e^{34},$ $\frac{91}{277}\sqrt{6}e^{15} + \frac{26}{277}\sqrt{13}e^{26} + \frac{65}{277}\sqrt{6}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^5 \otimes e_8$	{13789, 1489, 368, 4678, 13789, 1489, 368, 4678}
942: 258	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14}e^{12}, \frac{26}{277}\sqrt{47}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{52}{277}\sqrt{17}e^{34},$ $\frac{91}{277}\sqrt{6}e^{15} + \frac{26}{277}\sqrt{13}e^{26} + \frac{65}{277}\sqrt{6}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^5 \otimes e_8$	{13789, 1489, 368, 4678, 13789, 1489, 368, 4678}
942: 258	$0, 0, 0, 0, 0, -\frac{13}{277}\sqrt{14}e^{12}, \frac{13}{277}\sqrt{302}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{218}e^{34},$ $\frac{182}{277}e^{15} + \frac{26}{277}\sqrt{13}e^{26} + \frac{26}{277}\sqrt{85}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^3 \otimes e_4$	{123569, 1245679, 2357, 245, 123569, 1245679, 2357, 245}
942: 258	$0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14}e^{12}, \frac{13}{277}\sqrt{302}e^{13}, \frac{26}{277}\sqrt{19}e^{16} + \frac{13}{277}\sqrt{218}e^{34},$ $\frac{182}{277}e^{15} + \frac{26}{277}\sqrt{13}e^{26} + \frac{26}{277}\sqrt{85}e^{37}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+\frac{91}{277}\sqrt{10}e^3 \otimes e_4$	{123569, 1245679, 2357, 245, 123569, 1245679, 2357, 245}
942: 260	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{2}{37}\sqrt{14}e^{13}, \frac{1}{37}\sqrt{70}e^{16} + \frac{1}{111}\sqrt{30}e^{34},$ $\frac{1}{111}\sqrt{426}e^{17} + \frac{2}{111}\sqrt{66}e^{26} + \frac{1}{37}\sqrt{70}e^{35}$	$(\frac{1}{37}, -\frac{1}{37}, -\frac{3}{37}, \frac{4}{37}, \frac{2}{37}, 0, -\frac{2}{37}, \frac{1}{37}, -\frac{1}{37})$ $+\frac{4}{111}\sqrt{39}e^5 \otimes e_8$	{128, 234689}
942: 260	$0, 0, 0, 0, 0, \frac{118}{3229}\sqrt{23}e^{12}, \frac{118}{3229}\sqrt{418}e^{13},$ $\frac{59}{3229}\sqrt{406}e^{16} + \frac{59}{3229}\sqrt{1086}e^{34}, \frac{59}{3229}\sqrt{362}e^{17} + \frac{118}{3229}\sqrt{102}e^{26} + \frac{177}{3229}\sqrt{246}e^{35}$	$(-\frac{295}{3229}, \frac{767}{3229}, \frac{1829}{3229}, \frac{1652}{3229}, -\frac{590}{3229}, \frac{472}{3229}, \frac{1534}{3229}, \frac{177}{3229}, \frac{1239}{3229})$ $+\frac{236}{3229}\sqrt{339}e^3 \otimes e_4$	{1245679, 2357}
942: 260	$0, 0, 0, 0, 0, \frac{86}{3325}\sqrt{239}e^{12}, \frac{344}{3325}\sqrt{13}e^{13},$ $\frac{43}{3325}\sqrt{2858}e^{16} + \frac{43}{3325}\sqrt{3210}e^{34}, \frac{43}{3325}\sqrt{2974}e^{17} + \frac{344}{3325}\sqrt{39}e^{26} + \frac{129}{3325}\sqrt{106}e^{35}$	$(\frac{473}{3325}, -\frac{43}{475}, -\frac{43}{133}, \frac{344}{665}, \frac{946}{3325}, \frac{172}{3325}, -\frac{86}{475}, \frac{129}{665}, -\frac{129}{3325})$ $+\frac{172}{3325}\sqrt{357}e^4 \otimes e_9$	{1245678, 235789}
942: 260	$0, 0, 0, 0, 0, \frac{14}{85}\sqrt{15}e^{12}, \frac{7}{85}\sqrt{118}e^{13}, \frac{7}{85}\sqrt{106}e^{16} + \frac{14}{85}\sqrt{22}e^{34},$ $\frac{28}{85}\sqrt{5}e^{17} + \frac{7}{17}\sqrt{2}e^{26} + \frac{7}{85}\sqrt{106}e^{35}$	$(-\frac{7}{85}, \frac{14}{85}, \frac{7}{17}, -\frac{7}{17}, -\frac{14}{85}, \frac{7}{85}, \frac{28}{85}, 0, \frac{21}{85})$ $+\frac{14}{85}\sqrt{38}e^3 \otimes e_5$	{1245678, 157}
942: 261	$0, 0, 0, 0, 0, \frac{24}{407}\sqrt{10}e^{12}, \frac{8}{407}\sqrt{718}e^{13}, \frac{8}{407}\sqrt{890}e^{26} + \frac{16}{407}\sqrt{303}e^{34},$ $\frac{8}{407}\sqrt{1010}e^{16} + \frac{8}{407}\sqrt{606}e^{25} + \frac{160}{407}e^{37}$	$(-\frac{56}{407}, \frac{8}{37}, \frac{16}{407}, \frac{104}{407}, -\frac{112}{407}, \frac{32}{407}, -\frac{40}{407}, \frac{120}{407}, -\frac{24}{407})$ $+\frac{56}{407}\sqrt{30}e^4 \otimes e_9$	{129, 478}
942: 261	$0, 0, 0, 0, 0, \frac{98}{689}\sqrt{30}e^{12}, \frac{98}{3445}\sqrt{59}e^{13},$ $\frac{49}{3445}\sqrt{3982}e^{26} + \frac{147}{3445}\sqrt{194}e^{34}, \frac{98}{3445}\sqrt{241}e^{16} + \frac{49}{3445}\sqrt{2346}e^{25} + \frac{49}{3445}\sqrt{2018}e^{37}$	$(-\frac{49}{265}, \frac{1127}{3445}, \frac{49}{689}, \frac{1372}{3445}, -\frac{98}{265}, \frac{98}{689}, -\frac{392}{3445}, \frac{1617}{3445}, -\frac{147}{3445})$ $+\frac{98}{3445}\sqrt{1473}e^2 \otimes e_5$	{2367, 246}
942: 261	$0, 0, 0, 0, 0, \frac{38}{3133}\sqrt{357}e^{12}, \frac{38}{3133}\sqrt{1394}e^{13},$ $\frac{19}{3133}\sqrt{3442}e^{26} + \frac{57}{3133}\sqrt{518}e^{34}, \frac{38}{3133}\sqrt{1093}e^{16} + \frac{19}{3133}\sqrt{870}e^{25} + \frac{133}{3133}\sqrt{110}e^{37}$	$(\frac{323}{3133}, -\frac{361}{3133}, -\frac{19}{3133}, -\frac{380}{3133}, \frac{646}{3133}, -\frac{38}{3133}, \frac{304}{3133}, -\frac{399}{3133}, \frac{285}{3133})$ $+\frac{38}{3133}\sqrt{1461}e^3 \otimes e_4$	{123569, 1245679}
942: 261	$0, 0, 0, 0, 0, \frac{212}{3421}\sqrt{30}e^{12}, \frac{212}{3421}\sqrt{22}e^{13},$ $\frac{371}{3421}\sqrt{10}e^{26} + \frac{159}{3421}\sqrt{302}e^{34}, \frac{212}{3421}\sqrt{10}e^{16} + \frac{53}{3421}\sqrt{2814}e^{25} + \frac{265}{3421}\sqrt{58}e^{37}$	$(\frac{1007}{3421}, -\frac{901}{3421}, \frac{53}{3421}, \frac{848}{3421}, \frac{2014}{3421}, \frac{106}{3421}, \frac{1060}{3421}, -\frac{795}{3421}, \frac{1113}{3421})$ $+\frac{106}{3421}\sqrt{1455}e^5 \otimes e_8$	{368, 4678}
942: 263	$0, 0, 0, 0, 0, \frac{24}{317}\sqrt{21}e^{12}, \frac{12}{317}\sqrt{133}e^{13},$ $\frac{12}{317}\sqrt{14}e^{16} + \frac{12}{317}\sqrt{14}e^{23} + \frac{12}{317}\sqrt{161}e^{45}, \frac{24}{317}\sqrt{21}e^{17} + \frac{12}{317}\sqrt{133}e^{26}$	$(\frac{24}{317}, \frac{36}{317}, \frac{48}{317}, \frac{294}{317}, -\frac{210}{317}, \frac{60}{317}, \frac{72}{317}, \frac{84}{317}, \frac{96}{317})$ $+\frac{504}{317}e^4 \otimes e_5$	{48, 58}
942: 263	$0, 0, 0, 0, 0, \frac{21}{1138}\sqrt{258}e^{12}, \frac{21}{1138}\sqrt{661}e^{13},$ $\frac{147}{569}\sqrt{5}e^{16} + \frac{21}{1138}\sqrt{422}e^{23} + \frac{21}{1138}\sqrt{1226}e^{45}, \frac{21}{1138}\sqrt{858}e^{17} + \frac{21}{569}\sqrt{235}e^{26}$	$(-\frac{21}{1138}, \frac{63}{2276}, \frac{21}{569}, \frac{525}{1138}, -\frac{903}{2276}, \frac{105}{2276}, \frac{63}{1138}, \frac{147}{2276}, \frac{42}{569})$ $+\frac{63}{1138}\sqrt{217}e^4 \otimes e_9$	{235789, 3679}
942: 264	$0, 0, 0, 0, 0, \frac{43}{3325}\sqrt{2}e^{12}, \frac{43}{3325}\sqrt{122}e^{13},$ $\frac{172}{3325}\sqrt{119}e^{16} + \frac{129}{3325}\sqrt{106}e^{24} + \frac{43}{3325}\sqrt{3210}e^{35}, \frac{86}{3325}\sqrt{505}e^{17} + \frac{344}{3325}\sqrt{39}e^{26}$	$(\frac{473}{3325}, -\frac{43}{475}, -\frac{43}{133}, \frac{946}{3325}, \frac{344}{665}, \frac{172}{3325}, -\frac{86}{475}, \frac{129}{665}, -\frac{129}{3325})$ $+\frac{172}{3325}\sqrt{357}e^5 \otimes e_9$	{13457, 4679}
942: 264	$0, 0, 0, 0, 0, \frac{59}{3229}\sqrt{2306}e^{12}, \frac{59}{3229}\sqrt{3886}e^{13},$ $\frac{236}{3229}\sqrt{113}e^{16} + \frac{177}{3229}\sqrt{246}e^{24} + \frac{59}{3229}\sqrt{1086}e^{35}, \frac{118}{3229}\sqrt{463}e^{17} + \frac{118}{3229}\sqrt{102}e^{26}$	$(-\frac{295}{3229}, \frac{767}{3229}, \frac{1829}{3229}, -\frac{590}{3229}, -\frac{1652}{3229}, \frac{472}{3229}, \frac{1534}{3229}, \frac{177}{3229}, \frac{1239}{3229})$ $+\frac{236}{3229}\sqrt{339}e^3 \otimes e_5$	{139, 56}
942: 264	$0, 0, 0, 0, 0, \frac{299}{781}\sqrt{2}e^{12}, \frac{104}{781}\sqrt{13}e^{13},$ $\frac{52}{781}\sqrt{59}e^{16} + \frac{13}{781}\sqrt{1302}e^{24} + \frac{26}{781}\sqrt{87}e^{35}, \frac{13}{781}\sqrt{1186}e^{17} + \frac{13}{781}\sqrt{6}e^{26}$	$(\frac{65}{781}, -\frac{52}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{247}{781}, \frac{13}{781}, -\frac{104}{781}, \frac{78}{781}, -\frac{39}{781})$ $+\frac{26}{781}\sqrt{354}e^4 \otimes e_9$	{235789, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942: 264	$0, 0, 0, 0, 0, \frac{5}{593}\sqrt{5710e^{12}}, \frac{25}{593}\sqrt{122e^{13}},$ $\frac{20}{593}\sqrt{115e^{16}} + \frac{105}{593}\sqrt{10e^{24}} + \frac{5}{593}\sqrt{2010e^{35}}, \frac{10}{593}\sqrt{935e^{17}} + \frac{20}{593}\sqrt{255e^{26}}$	$(-\frac{35}{593}, \frac{55}{593}, \frac{145}{593}, -\frac{70}{593}, -\frac{160}{593}, \frac{20}{593}, \frac{110}{593}, -\frac{15}{593}, \frac{75}{593})$ $+ \frac{20}{593}\sqrt{345e^2} \otimes e_4$	{1345679, 47}
942: 265	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{6e^{12}}, \frac{1}{5}\sqrt{10e^{13}}, \frac{1}{3}\sqrt{6e^{14}} + \frac{2}{5}\sqrt{2e^{26}} + \frac{4}{5}e^{35},$ $\frac{4}{5}e^{16} + \frac{2}{5}e^{37}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{2}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{3}{5}\sqrt{2e^5} \otimes e_9$	{129, 578}
942: 265	$0, 0, 0, 0, 0, \frac{10}{349}\sqrt{62e^{12}}, \frac{10}{349}\sqrt{161e^{13}},$ $\frac{5}{349}\sqrt{146e^{14}} + \frac{10}{349}\sqrt{86e^{26}} + \frac{5}{349}\sqrt{566e^{35}}, \frac{5}{349}\sqrt{566e^{16}} + \frac{5}{349}\sqrt{610e^{37}}$	$(\frac{35}{349}, -\frac{25}{349}, \frac{5}{349}, -\frac{50}{349}, -\frac{20}{349}, \frac{10}{349}, \frac{40}{349}, -\frac{15}{349}, \frac{45}{349})$ $+ \frac{10}{349}\sqrt{163e^3} \otimes e_5$	{123469, 1245679}
942: 265	$0, 0, 0, 0, 0, \frac{212}{3421}\sqrt{30e^{12}}, \frac{212}{3421}\sqrt{22e^{13}},$ $\frac{53}{3421}\sqrt{2814e^{14}} + \frac{848}{3421}\sqrt{2e^{26}} + \frac{159}{3421}\sqrt{122e^{35}}, \frac{53}{3421}\sqrt{842e^{16}} + \frac{689}{3421}\sqrt{14e^{37}}$	$(-\frac{901}{3421}, \frac{1007}{3421}, \frac{53}{3421}, \frac{2014}{3421}, \frac{1060}{3421}, \frac{106}{3421}, -\frac{848}{3421}, \frac{1113}{3421}, -\frac{795}{3421})$ $+ \frac{106}{3421}\sqrt{1455e^4} \otimes e_9$	{369, 5679}
942: 265	$0, 0, 0, 0, 0, \frac{98}{689}\sqrt{30e^{12}}, \frac{98}{689}\sqrt{59e^{13}},$ $\frac{49}{3445}\sqrt{2346e^{14}} + \frac{98}{3445}\sqrt{182e^{26}} + \frac{441}{3445}\sqrt{22e^{35}}, \frac{49}{3445}\sqrt{3746e^{16}} + \frac{49}{3445}\sqrt{1510e^{37}}$	$(\frac{1127}{3445}, -\frac{49}{265}, \frac{49}{689}, -\frac{98}{265}, -\frac{392}{3445}, \frac{98}{689}, \frac{1372}{3445}, -\frac{147}{3445}, \frac{1617}{3445})$ $+ \frac{98}{3445}\sqrt{1473e^1} \otimes e_4$	{1356, 167}
942: 266	$0, 0, 0, 0, 0, -\frac{24}{91}\sqrt{3e^{12}}, \frac{12}{91}\sqrt{10e^{13}},$ $\frac{24}{91}e^{16} + \frac{24}{91}\sqrt{2e^{23}} + \frac{12}{91}\sqrt{14e^{45}}, \frac{12}{91}\sqrt{10e^{26}} + \frac{24}{91}\sqrt{3e^{37}}$	$(\frac{6}{91}, \frac{12}{91}, \frac{12}{91}, \frac{12}{91}, \frac{60}{91}, \frac{18}{91}, \frac{18}{91}, \frac{24}{91}, \frac{30}{91})$ $+ \frac{144}{91}e^4 \otimes e_5$	{123489, 123589, 234678, 235678, 123489, 123589, 234678, 235678}
942: 266	$0, 0, 0, 0, 0, \frac{24}{91}\sqrt{3e^{12}}, \frac{12}{91}\sqrt{10e^{13}},$ $\frac{24}{91}e^{16} + \frac{24}{91}\sqrt{2e^{23}} + \frac{12}{91}\sqrt{14e^{45}}, \frac{12}{91}\sqrt{10e^{26}} + \frac{24}{91}\sqrt{3e^{37}}$	$(\frac{6}{91}, \frac{12}{91}, \frac{12}{91}, \frac{12}{91}, \frac{60}{91}, \frac{18}{91}, \frac{18}{91}, \frac{24}{91}, \frac{30}{91})$ $+ \frac{144}{91}e^4 \otimes e_5$	{123489, 123589, 234678, 235678, 123489, 123589, 234678, 235678}
942: 266	$0, 0, 0, 0, 0, -\frac{24}{767}\sqrt{93e^{12}}, \frac{48}{767}\sqrt{43e^{13}},$ $\frac{24}{767}\sqrt{158e^{16}} + \frac{48}{767}\sqrt{83e^{23}} + \frac{24}{767}\sqrt{419e^{45}}, \frac{24}{767}\sqrt{334e^{26}} + \frac{24}{767}\sqrt{255e^{37}}$	$(\frac{12}{767}, \frac{24}{767}, \frac{24}{767}, \frac{348}{767}, -\frac{300}{767}, \frac{36}{767}, \frac{36}{767}, \frac{48}{767}, \frac{60}{767})$ $+ \frac{432}{767}\sqrt{2e^4} \otimes e_9$	{1279, 156789, 2456, 48, 1279, 156789, 2456, 48}
942: 266	$0, 0, 0, 0, 0, \frac{24}{767}\sqrt{93e^{12}}, \frac{48}{767}\sqrt{43e^{13}},$ $\frac{24}{767}\sqrt{158e^{16}} + \frac{48}{767}\sqrt{83e^{23}} + \frac{24}{767}\sqrt{419e^{45}}, \frac{24}{767}\sqrt{334e^{26}} + \frac{24}{767}\sqrt{255e^{37}}$	$(\frac{12}{767}, \frac{24}{767}, \frac{24}{767}, \frac{348}{767}, -\frac{300}{767}, \frac{36}{767}, \frac{36}{767}, \frac{48}{767}, \frac{60}{767})$ $+ \frac{432}{767}\sqrt{2e^4} \otimes e_9$	{1279, 156789, 2456, 48, 1279, 156789, 2456, 48}
942: 267	$0, 0, 0, 0, 0, -\frac{1}{3}\sqrt{6e^{12}}, \frac{1}{21}\sqrt{138e^{13}},$ $\frac{2}{21}\sqrt{6e^{16}} + \frac{4}{21}\sqrt{15e^{24}} + \frac{2}{21}\sqrt{51e^{35}}, \frac{1}{7}\sqrt{34e^{26}} + \frac{5}{21}\sqrt{6e^{37}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{111e^2} \otimes e_4$	{123579, 129, 2356, 267, 123579, 129, 2356, 267}
942: 267	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6e^{12}}, \frac{1}{21}\sqrt{138e^{13}},$ $\frac{2}{21}\sqrt{6e^{16}} + \frac{4}{21}\sqrt{15e^{24}} + \frac{2}{21}\sqrt{51e^{35}}, \frac{1}{7}\sqrt{34e^{26}} + \frac{5}{21}\sqrt{6e^{37}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{111e^2} \otimes e_4$	{123579, 129, 2356, 267, 123579, 129, 2356, 267}
942: 267	$0, 0, 0, 0, 0, -\frac{5}{21}\sqrt{6e^{12}}, \frac{1}{7}\sqrt{34e^{13}},$ $\frac{2}{21}\sqrt{6e^{16}} + \frac{2}{21}\sqrt{51e^{24}} + \frac{4}{21}\sqrt{15e^{35}}, \frac{1}{21}\sqrt{138e^{26}} + \frac{1}{3}\sqrt{6e^{37}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{111e^3} \otimes e_5$	{139, 1579, 367, 56, 139, 1579, 367, 56}
942: 267	$0, 0, 0, 0, 0, \frac{5}{21}\sqrt{6e^{12}}, \frac{1}{7}\sqrt{34e^{13}},$ $\frac{2}{21}\sqrt{6e^{16}} + \frac{2}{21}\sqrt{51e^{24}} + \frac{4}{21}\sqrt{15e^{35}}, \frac{1}{21}\sqrt{138e^{26}} + \frac{1}{3}\sqrt{6e^{37}}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, \frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7})$ $+ \frac{2}{21}\sqrt{111e^3} \otimes e_5$	{139, 1579, 367, 56, 139, 1579, 367, 56}
942: 267	$0, 0, 0, 0, 0, -\frac{4}{13}\sqrt{3e^{12}}, \frac{6}{13}e^{13},$ $\frac{4}{13}\sqrt{2e^{16}} + \frac{1}{13}\sqrt{74e^{24}} + \frac{3}{13}\sqrt{14e^{35}}, \frac{6}{13}\sqrt{114e^{26}} + \frac{1}{13}\sqrt{2e^{37}}$	$(\frac{3}{13}, -\frac{3}{13}, -\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, 0, 0, \frac{3}{13}, -\frac{3}{13})$ $+ \frac{10}{13}\sqrt{2e^5} \otimes e_9$	{129, 136789, 2356, 578, 129, 136789, 2356, 578}
942: 267	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{3e^{12}}, \frac{6}{13}e^{13},$ $\frac{4}{13}\sqrt{2e^{16}} + \frac{1}{13}\sqrt{74e^{24}} + \frac{3}{13}\sqrt{14e^{35}}, \frac{6}{13}\sqrt{114e^{26}} + \frac{1}{13}\sqrt{2e^{37}}$	$(\frac{3}{13}, -\frac{3}{13}, -\frac{3}{13}, \frac{6}{13}, \frac{6}{13}, 0, 0, \frac{3}{13}, -\frac{3}{13})$ $+ \frac{10}{13}\sqrt{2e^5} \otimes e_9$	{129, 136789, 2356, 578, 129, 136789, 2356, 578}
942: 271	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{474e^{12}}, \frac{1}{289}\sqrt{290e^{13}}, \frac{1}{289}\sqrt{582e^{17}} + \frac{1}{289}\sqrt{74e^{26}},$ $\frac{2}{289}\sqrt{91e^{16}} + \frac{1}{289}\sqrt{582e^{24}} + \frac{16}{289}e^{37}$	$(-\frac{1}{289}, -\frac{1}{289}, -\frac{1}{289}, -\frac{2}{289}, \frac{16}{289}, -\frac{2}{289}, -\frac{2}{289}, -\frac{3}{289}, -\frac{3}{289})$ $+ \frac{1}{289}\sqrt{546e^4} \otimes e_8$	{1358, 138}
942: 271	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{34e^{12}}, \frac{8}{41}\sqrt{7e^{13}}, \frac{8}{41}\sqrt{10e^{17}} + \frac{12}{41}\sqrt{2e^{26}},$ $\frac{4}{41}\sqrt{46e^{16}} + \frac{4}{41}\sqrt{6e^{24}} + \frac{12}{41}\sqrt{2e^{37}}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138e^1} \otimes e_5$	{1467, 23456789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:271	$0, 0, 0, 0, 0, \frac{8}{41}\sqrt{3}e^{12}, \frac{4}{41}\sqrt{74}e^{13}, \frac{4}{41}\sqrt{6}e^{17} + \frac{8}{41}\sqrt{7}e^{26},$ $\frac{4}{41}\sqrt{46}e^{16} + \frac{4}{41}\sqrt{6}e^{24} + \frac{4}{41}\sqrt{74}e^{37}$	$(\frac{4}{41}, \frac{4}{41}, \frac{4}{41}, \frac{8}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^3 \otimes e_5$	{123469, 4568}
942:271	$0, 0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{2}{3}e^{13}, \frac{2}{3}\sqrt{2}e^{17} + \frac{2}{3}e^{26},$ $\frac{1}{3}\sqrt{5}e^{16} + \frac{1}{3}\sqrt{3}e^{24} + \frac{1}{3}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_8$	{157, 23789}
942:271	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{618}e^{12}, \frac{16}{289}e^{13}, \frac{1}{289}\sqrt{510}e^{17} + \frac{2}{289}\sqrt{118}e^{26},$ $\frac{1}{289}\sqrt{182}e^{16} + \frac{1}{289}\sqrt{510}e^{24} + \frac{1}{289}\sqrt{290}e^{37}$	$(-\frac{1}{289}, -\frac{1}{289}, -\frac{1}{289}, -\frac{2}{289}, \frac{16}{289}, -\frac{2}{289}, -\frac{2}{289}, -\frac{3}{289}, -\frac{3}{289})$ $+ \frac{1}{289}\sqrt{546}e^2 \otimes e_4$	{1345678, 134678}
942:271	$0, 0, 0, 0, 0, \frac{17}{301}\sqrt{286}e^{12}, \frac{102}{301}\sqrt{5}e^{13}, \frac{34}{301}\sqrt{73}e^{17} + \frac{34}{301}\sqrt{42}e^{26},$ $\frac{17}{301}\sqrt{174}e^{16} + \frac{17}{301}\sqrt{466}e^{24} + \frac{34}{301}\sqrt{42}e^{37}$	$(\frac{34}{301}, \frac{34}{301}, \frac{34}{301}, \frac{68}{301}, -\frac{221}{301}, \frac{68}{301}, \frac{68}{301}, \frac{102}{301}, \frac{102}{301})$ $+ \frac{51}{301}\sqrt{58}e^4 \otimes e_5$	{1358, 259}
942:271	$0, 0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{3}e^{13}, \frac{1}{3}\sqrt{2}e^{17} + \frac{1}{3}e^{26},$ $\frac{1}{3}\sqrt{5}e^{16} + \frac{1}{3}\sqrt{3}e^{24} + \frac{1}{3}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_9$	{156, 23689}
942:276	$0, 0, 0, 0, 0, \frac{64}{969}\sqrt{30}e^{12}, \frac{32}{969}\sqrt{177}e^{13}, \frac{32}{969}\sqrt{66}e^{17} + \frac{32}{969}\sqrt{195}e^{26},$ $\frac{128}{969}\sqrt{3}e^{16} + \frac{32}{969}\sqrt{138}e^{37} + \frac{32}{323}\sqrt{19}e^{45}$	$(\frac{32}{323}, \frac{32}{323}, \frac{32}{323}, \frac{16}{17}, -\frac{208}{323}, \frac{64}{323}, \frac{64}{323}, \frac{96}{323}, \frac{96}{323})$ $+ \frac{512}{323}e^4 \otimes e_5$	{134689, 135689}
942:276	$0, 0, 0, 0, 0, \frac{160}{969}\sqrt{6}e^{12}, \frac{16}{969}\sqrt{753}e^{13}, \frac{16}{969}\sqrt{1434}e^{17} + \frac{16}{969}\sqrt{915}e^{26},$ $\frac{32}{969}\sqrt{318}e^{16} + \frac{16}{969}\sqrt{438}e^{37} + \frac{48}{323}\sqrt{19}e^{45}$	$(\frac{8}{323}, \frac{8}{323}, \frac{8}{323}, \frac{8}{17}, -\frac{128}{323}, \frac{16}{323}, \frac{16}{323}, \frac{24}{323}, \frac{24}{323})$ $+ \frac{32}{323}\sqrt{70}e^4 \otimes e_8$	{1457, 235789}
942:312	$0, 0, 0, 0, 0, \frac{16}{381}\sqrt{109}e^{12}, \frac{8}{381}\sqrt{545}e^{34}, \frac{8}{381}\sqrt{545}e^{16}, \frac{2}{381}\sqrt{1853}e^{37}$	$(-\frac{31}{127}, \frac{128}{381}, -\frac{46}{381}, \frac{160}{381}, -\frac{30}{127}, \frac{35}{381}, \frac{38}{127}, -\frac{58}{381}, \frac{68}{381})$ $+ \frac{2}{127}\sqrt{2289}e^4 \otimes e_8 + \frac{2}{381}\sqrt{15369}e^2 \otimes e_5$	{12378, 128, 134569, 145679, 23678, 268, 3459, 4579}
942:312	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{134}e^{12}, \frac{4}{213}\sqrt{402}e^{34}, \frac{1}{213}\sqrt{9514}e^{16}, \frac{4}{213}\sqrt{402}e^{37}$	$(\frac{16}{213}, -\frac{17}{71}, \frac{16}{71}, \frac{7}{71}, \frac{9}{71}, -\frac{35}{213}, \frac{9}{71}, -\frac{19}{213}, \frac{25}{71})$ $+ \frac{1}{213}\sqrt{9246}e^1 \otimes e_2 + \frac{1}{71}\sqrt{1742}e^3 \otimes e_8$	{134569, 13469, 13567, 1367, 2456789, 246789, 2568, 268}
942:312	$0, 0, 0, 0, 0, \frac{1}{171}\sqrt{6954}e^{12}, \frac{1}{171}\sqrt{854}e^{34}, \frac{8}{171}\sqrt{61}e^{16}, \frac{8}{171}\sqrt{61}e^{37}$	$(\frac{7}{171}, \frac{13}{57}, -\frac{2}{19}, \frac{14}{171}, -\frac{6}{19}, \frac{46}{171}, -\frac{4}{171}, \frac{53}{171}, -\frac{22}{171})$ $+ \frac{5}{171}\sqrt{366}e^1 \otimes e_5 + \frac{5}{171}\sqrt{366}e^2 \otimes e_9$	{12378, 128, 13469, 14679, 235678, 2568, 3459, 4579}
942:312	$0, 0, 0, 0, 0, \frac{2}{305}\sqrt{818}e^{12}, \frac{2}{915}\sqrt{38037}e^{34}, \frac{1}{915}\sqrt{249490}e^{16},$ $\frac{2}{305}\sqrt{818}e^{37}$	$(\frac{124}{915}, -\frac{19}{61}, -\frac{38}{305}, \frac{124}{305}, \frac{36}{305}, -\frac{161}{915}, \frac{86}{305}, -\frac{37}{915}, \frac{48}{305})$ $+ \frac{1}{915}\sqrt{292026}e^1 \otimes e_2 + \frac{2}{61}\sqrt{409}e^4 \otimes e_8$	{134569, 13469, 145679, 14679, 235678, 23678, 2568, 268}
942:312	$0, 0, 0, 0, 0, \frac{1}{165}\sqrt{1582}e^{12}, \frac{1}{165}\sqrt{1582}e^{34}, \frac{1}{165}\sqrt{7006}e^{16}, \frac{1}{165}\sqrt{7006}e^{37}$	$(\frac{1}{3}, -\frac{58}{165}, \frac{1}{3}, -\frac{58}{165}, \frac{7}{55}, -\frac{1}{55}, -\frac{1}{55}, \frac{52}{165}, \frac{52}{165})$ $+ \frac{4}{55}\sqrt{113}e^1 \otimes e_2 + \frac{4}{55}\sqrt{113}e^3 \otimes e_4$	{13567, 1367, 145679, 14679, 2456789, 246789}
942:312	$0, 0, 0, 0, 0, \frac{1}{165}\sqrt{1582}e^{12}, \frac{1}{165}\sqrt{7006}e^{34}, \frac{1}{165}\sqrt{7006}e^{16}, \frac{1}{165}\sqrt{1582}e^{37}$	$(\frac{1}{3}, -\frac{58}{165}, -\frac{17}{165}, \frac{62}{165}, -\frac{17}{55}, -\frac{1}{55}, \frac{3}{11}, \frac{52}{165}, \frac{28}{165})$ $+ \frac{4}{55}\sqrt{113}e^1 \otimes e_2 + \frac{4}{55}\sqrt{113}e^4 \otimes e_5$	{13469, 13567, 14679, 156, 234689, 235678, 246789, 2568}
942:312	$0, 0, 0, 0, 0, \frac{2}{381}\sqrt{1853}e^{12}, \frac{8}{381}\sqrt{545}e^{34}, \frac{16}{381}\sqrt{109}e^{16}, \frac{8}{381}\sqrt{545}e^{37}$	$(\frac{37}{127}, -\frac{107}{381}, \frac{80}{381}, -\frac{29}{381}, -\frac{46}{127}, \frac{4}{381}, \frac{17}{127}, \frac{115}{381}, \frac{131}{381})$ $+ \frac{2}{127}\sqrt{2289}e^3 \otimes e_5 + \frac{2}{381}\sqrt{15369}e^1 \otimes e_2$	{13469, 1367, 145679, 156, 234689, 23678, 2456789, 2568}
942:312	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{154}e^{12}, \frac{1}{29}\sqrt{154}e^{34}, \frac{1}{29}\sqrt{154}e^{16}, \frac{1}{29}\sqrt{154}e^{37}$	$(-\frac{7}{29}, \frac{11}{29}, -\frac{7}{29}, \frac{11}{29}, \frac{4}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{3}{29}, -\frac{3}{29})$ $+ \frac{5}{29}\sqrt{14}e^2 \otimes e_9 - \frac{5}{29}\sqrt{14}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 145679, 14679, 2568, 268}
942:312	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{154}e^{12}, \frac{1}{29}\sqrt{154}e^{34}, \frac{1}{29}\sqrt{154}e^{16}, \frac{1}{29}\sqrt{154}e^{37}$	$(-\frac{7}{29}, \frac{11}{29}, -\frac{7}{29}, \frac{11}{29}, \frac{4}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{3}{29}, -\frac{3}{29})$ $+ \frac{5}{29}\sqrt{14}e^2 \otimes e_9 + \frac{5}{29}\sqrt{14}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 145679, 14679, 2568, 268}
942:312	$0, 0, 0, 0, 0, \frac{8}{381}\sqrt{545}e^{12}, \frac{2}{381}\sqrt{1853}e^{34}, \frac{16}{381}\sqrt{109}e^{16}, \frac{8}{381}\sqrt{545}e^{37}$	$(-\frac{31}{127}, \frac{160}{381}, -\frac{46}{381}, \frac{34}{381}, \frac{64}{127}, \frac{67}{381}, -\frac{4}{127}, -\frac{26}{381}, -\frac{58}{381})$ $+ \frac{2}{127}\sqrt{2289}e^2 \otimes e_9 + \frac{2}{381}\sqrt{15369}e^5 \otimes e_8$	{12378, 128, 134569, 145679, 23678, 268, 3459, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:312	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{30}e^{12}, \frac{1}{27}\sqrt{30}e^{34}, \frac{1}{9}\sqrt{30}e^{16}, \frac{1}{27}\sqrt{30}e^{37}$	$(\frac{5}{27}, -\frac{10}{27}, \frac{1}{27}, \frac{2}{27}, \frac{5}{9}, -\frac{5}{27}, \frac{1}{9}, 0, \frac{4}{27})$ $+\frac{2}{9}\sqrt{10}e^1 \otimes e_2 + \frac{2}{9}\sqrt{10}e^5 \otimes e_8$	{134569, 13567, 145679, 156, 234689, 23678, 246789, 268}
942:312	$0, 0, 0, 0, 0, \frac{1}{789}\sqrt{63690}e^{12}, \frac{2}{789}\sqrt{12738}e^{34}, \frac{1}{789}\sqrt{101518}e^{16}, \frac{1}{789}\sqrt{63690}e^{37}$	$(\frac{67}{789}, -\frac{21}{263}, -\frac{65}{263}, \frac{88}{263}, \frac{34}{263}, \frac{4}{789}, \frac{23}{789}, \frac{71}{263}, -\frac{42}{263})$ $+\frac{14}{789}\sqrt{579}e^4 \otimes e_8 + \frac{1}{789}\sqrt{151698}e^1 \otimes e_9$	{123578, 12378, 1258, 128, 3459, 349, 4579, 479}
942:312	$0, 0, 0, 0, 0, \frac{1}{213}\sqrt{9514}e^{12}, \frac{1}{71}\sqrt{134}e^{34}, \frac{4}{213}\sqrt{402}e^{16}, \frac{4}{213}\sqrt{402}e^{37}$	$(\frac{25}{213}, \frac{25}{213}, -\frac{10}{71}, \frac{6}{71}, -\frac{14}{71}, \frac{50}{213}, -\frac{4}{71}, \frac{25}{71}, -\frac{14}{71})$ $+\frac{1}{213}\sqrt{9246}e^2 \otimes e_5 + \frac{1}{71}\sqrt{1742}e^1 \otimes e_9$	{12378, 128, 13567, 156, 234689, 246789, 3459, 4579}
942:312	$0, 0, 0, 0, 0, \frac{1}{306}\sqrt{1239}e^{12}, \frac{2}{153}\sqrt{413}e^{34}, \frac{1}{306}\sqrt{9322}e^{16}, \frac{1}{306}\sqrt{9322}e^{37}$	$(\frac{11}{306}, -\frac{8}{51}, \frac{11}{102}, -\frac{49}{612}, \frac{67}{204}, -\frac{37}{306}, \frac{1}{36}, -\frac{13}{153}, \frac{83}{612})$ $+\frac{1}{306}\sqrt{16107}e^3 \otimes e_8 + \frac{1}{306}\sqrt{8142}e^1 \otimes e_2 + \frac{1}{306}\sqrt{8142}e^5 \otimes e_9$	{13469, 13567, 246789, 2568}
942:312	$0, 0, 0, 0, 0, \frac{2}{789}\sqrt{12738}e^{12}, \frac{1}{789}\sqrt{63690}e^{34}, \frac{1}{789}\sqrt{101518}e^{16}, \frac{1}{789}\sqrt{63690}e^{37}$	$(\frac{1}{789}, -\frac{10}{263}, \frac{55}{263}, -\frac{21}{263}, -\frac{64}{263}, -\frac{29}{789}, \frac{34}{263}, -\frac{28}{789}, \frac{89}{263})$ $+\frac{14}{789}\sqrt{579}e^1 \otimes e_5 + \frac{1}{789}\sqrt{151698}e^3 \otimes e_8$	{124789, 128, 13469, 1367, 2456789, 2568, 3459, 357}
942:312	$0, 0, 0, 0, 0, \frac{8}{171}\sqrt{61}e^{12}, \frac{8}{171}\sqrt{61}e^{34}, \frac{1}{171}\sqrt{6954}e^{16}, \frac{1}{171}\sqrt{854}e^{37}$	$(\frac{7}{171}, -\frac{11}{171}, -\frac{2}{19}, \frac{64}{171}, -\frac{6}{19}, -\frac{4}{171}, \frac{46}{171}, \frac{1}{57}, \frac{28}{171})$ $+\frac{5}{171}\sqrt{366}e^1 \otimes e_5 + \frac{5}{171}\sqrt{366}e^4 \otimes e_8$	{12378, 128, 13469, 14679, 235678, 2568, 3459, 4579}
942:312	$0, 0, 0, 0, 0, \frac{1}{165}\sqrt{1582}e^{12}, \frac{1}{165}\sqrt{1582}e^{34}, \frac{1}{165}\sqrt{7006}e^{16}, \frac{1}{165}\sqrt{7006}e^{37}$	$(\frac{1}{3}, -\frac{58}{165}, -\frac{17}{165}, \frac{14}{165}, \frac{31}{55}, -\frac{1}{55}, -\frac{1}{55}, \frac{52}{165}, -\frac{4}{33})$ $+\frac{4}{55}\sqrt{113}e^1 \otimes e_2 + \frac{4}{55}\sqrt{113}e^5 \otimes e_9$	{13469, 13567, 14679, 156, 234689, 235678, 246789, 2568}
942:312	$0, 0, 0, 0, 0, \frac{4}{93}\sqrt{341}e^{12}, \frac{4}{93}\sqrt{66}e^{34}, \frac{4}{93}\sqrt{66}e^{16}, \frac{4}{93}\sqrt{341}e^{37}$	$(-\frac{19}{93}, \frac{2}{3}, -\frac{19}{93}, \frac{4}{31}, \frac{6}{31}, \frac{43}{93}, -\frac{7}{93}, \frac{8}{31}, -\frac{26}{93})$ $+\frac{20}{93}\sqrt{33}e^2 \otimes e_9$	{123578, 12378, 1258, 128, 134569, 13469, 145679, 14679, 235678, 23678, 2568, 268, 3459, 349, 4579, 479}
942:312	$0, 0, 0, 0, 0, \frac{1}{555}\sqrt{7582}e^{12}, \frac{1}{555}\sqrt{7582}e^{34}, \frac{1}{555}\sqrt{61102}e^{16}, \frac{1}{555}\sqrt{28990}e^{37}$	$(\frac{77}{555}, -\frac{146}{555}, \frac{113}{555}, -\frac{22}{111}, \frac{77}{185}, -\frac{23}{185}, \frac{1}{185}, \frac{8}{555}, \frac{116}{555})$ $+\frac{2}{185}\sqrt{2230}e^1 \otimes e_2 + \frac{2}{185}\sqrt{2230}e^5 \otimes e_8 + \frac{4}{185}\sqrt{446}e^3 \otimes e_4$	{13567, 145679, 23678, 246789}
942:312	$0, 0, 0, 0, 0, \frac{1}{177}\sqrt{330}e^{12}, \frac{1}{177}\sqrt{330}e^{34}, \frac{1}{177}\sqrt{590}e^{16}, \frac{1}{177}\sqrt{590}e^{37}$	$(\frac{7}{177}, -\frac{4}{59}, \frac{7}{177}, -\frac{4}{59}, \frac{7}{59}, -\frac{5}{177}, -\frac{5}{177}, \frac{2}{177}, \frac{2}{177})$ $+\frac{2}{177}\sqrt{195}e^1 \otimes e_9 + \frac{2}{177}\sqrt{195}e^3 \otimes e_8$	{1258, 128, 13567, 1367, 2456789, 246789}
942:312	$0, 0, 0, 0, 0, \frac{2}{5985}\sqrt{201587}e^{12}, \frac{2}{1995}\sqrt{107378}e^{34}, \frac{2}{1197}\sqrt{62806}e^{16}, \frac{4}{5985}\sqrt{163093}e^{37}$	$(\frac{212}{1995}, -\frac{278}{1197}, -\frac{143}{855}, \frac{212}{665}, \frac{92}{285}, -\frac{754}{5985}, \frac{907}{5985}, -\frac{118}{5985}, -\frac{94}{5985})$ $+\frac{2}{5985}\sqrt{135235}e^5 \otimes e_9 + \frac{2}{5985}\sqrt{229444}e^4 \otimes e_8 + \frac{4}{5985}\sqrt{452811}e^1 \otimes e_2$	{13469, 14679, 235678, 2568}
942:312	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{10}e^{12}, \frac{1}{7}\sqrt{6}e^{34}, \frac{1}{7}\sqrt{10}e^{16}, \frac{1}{7}\sqrt{10}e^{37}$	$(\frac{5}{21}, -\frac{2}{21}, -\frac{5}{21}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{21}, \frac{1}{21}, -\frac{4}{21})$ $+\frac{2}{7}\sqrt{3}e^4 \otimes e_5 + \frac{2}{7}\sqrt{6}e^1 \otimes e_9$	{123578, 1258, 13567, 156, 234689, 246789, 349, 479}
942:312	$0, 0, 0, 0, 0, \frac{1}{6}\sqrt{15}e^{12}, \frac{1}{8}\sqrt{5}e^{34}, \frac{1}{6}\sqrt{15}e^{16}, \frac{1}{6}\sqrt{15}e^{37}$	$(\frac{1}{3}, -\frac{7}{48}, -\frac{5}{24}, \frac{1}{8}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{12}, \frac{25}{48}, -\frac{7}{24})$ $+\frac{1}{8}\sqrt{65}e^1 \otimes e_9$	{123578, 12378, 1258, 128, 13567, 1367, 156, 16, 2345689, 234689, 2456789, 246789, 3459, 349, 4579, 479}
942:312	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{38}e^{12}, \frac{1}{15}\sqrt{38}e^{34}, \frac{1}{15}\sqrt{190}e^{16}, \frac{1}{15}\sqrt{38}e^{37}$	$(-\frac{1}{5}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, 1, -\frac{1}{15}, \frac{1}{5}, -\frac{4}{15}, \frac{4}{15})$ $+\frac{2}{15}\sqrt{114}e^5 \otimes e_8$	{123489, 12378, 124789, 128, 134569, 13567, 145679, 156, 234689, 23678, 246789, 268, 3459, 357, 4579, 5}
942:312	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{190}e^{12}, \frac{1}{15}\sqrt{38}e^{34}, \frac{1}{15}\sqrt{38}e^{16}, \frac{1}{15}\sqrt{38}e^{37}$	$(-\frac{1}{5}, \frac{2}{3}, \frac{1}{15}, \frac{2}{15}, -\frac{3}{5}, \frac{7}{15}, \frac{1}{5}, \frac{4}{15}, \frac{4}{15})$ $+\frac{2}{15}\sqrt{114}e^2 \otimes e_5$	{123489, 12378, 124789, 128, 134569, 13567, 145679, 156, 234689, 23678, 246789, 268, 3459, 357, 4579, 5}
942:312	$0, 0, 0, 0, 0, \frac{4}{213}\sqrt{402}e^{12}, \frac{1}{71}\sqrt{134}e^{34}, \frac{1}{213}\sqrt{9514}e^{16}, \frac{4}{213}\sqrt{402}e^{37}$	$(\frac{25}{213}, -\frac{7}{71}, -\frac{10}{71}, \frac{6}{71}, \frac{32}{71}, \frac{4}{213}, -\frac{4}{71}, \frac{29}{213}, -\frac{14}{71})$ $+\frac{1}{213}\sqrt{9246}e^5 \otimes e_8 + \frac{1}{71}\sqrt{1742}e^1 \otimes e_9$	{12378, 128, 13567, 156, 234689, 246789, 3459, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:312	$0, 0, 0, 0, 0, \frac{4}{93}\sqrt{341}e^{12}, \frac{4}{93}\sqrt{66}e^{34}, \frac{4}{93}\sqrt{341}e^{16}, \frac{4}{93}\sqrt{66}e^{37}$	$(\frac{1}{3}, -\frac{13}{93}, \frac{2}{31}, \frac{4}{31}, -\frac{19}{31}, \frac{6}{31}, \frac{6}{31}, \frac{49}{93}, \frac{8}{31})$ $+\frac{20}{93}\sqrt{33}e^1 \otimes e_5$	{123489, 12378, 124789, 128, 13469, 1367, 14679, 16, 2345689, 235678, 2456789, 2568, 3459, 357, 4579, 5}
942:312	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{38}e^{12}, \frac{1}{15}\sqrt{38}e^{34}, \frac{1}{15}\sqrt{190}e^{16}, \frac{1}{15}\sqrt{38}e^{37}$	$(\frac{3}{5}, -\frac{2}{3}, \frac{1}{15}, \frac{2}{15}, \frac{1}{5}, -\frac{1}{15}, \frac{1}{5}, \frac{8}{15}, \frac{4}{15})$ $+\frac{2}{15}\sqrt{114}e^1 \otimes e_2$	{134569, 13469, 13567, 1367, 145679, 14679, 156, 16, 2345689, 234689, 235678, 23678, 2456789, 246789, 2568, 268}
942:313	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{10}e^{12}, \frac{1}{35}\sqrt{70}e^{34}, \frac{4}{35}\sqrt{10}e^{13} + \frac{1}{35}\sqrt{170}e^{26}, \frac{4}{35}\sqrt{10}e^{37}$	$(\frac{1}{7}, -\frac{1}{35}, -\frac{2}{35}, -\frac{2}{35}, \frac{8}{35}, \frac{4}{35}, -\frac{4}{35}, \frac{3}{35}, -\frac{6}{35})$ $+\frac{1}{35}\sqrt{30}e^5 \otimes e_8 + \frac{3}{35}\sqrt{30}e^2 \otimes e_9$	{12378, 134689, 23567, 3459}
942:313	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{53}e^{12}, \frac{2}{47}\sqrt{53}e^{34}, \frac{2}{47}\sqrt{371}e^{13} + \frac{1}{47}\sqrt{1166}e^{26}, \frac{2}{47}\sqrt{53}e^{37}$	$(-\frac{4}{47}, -\frac{1}{47}, -\frac{2}{47}, \frac{10}{47}, 1, -\frac{5}{47}, \frac{8}{47}, -\frac{6}{47}, \frac{6}{47})$ $+\frac{1}{47}\sqrt{4134}e^5 \otimes e_8$	{12345679, 12356, 134579, 135, 234789, 238, 346789, 368}
942:313	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{6}e^{12}, \frac{2}{31}\sqrt{10}e^{34}, \frac{2}{31}\sqrt{22}e^{13} + \frac{2}{31}\sqrt{26}e^{26}, \frac{2}{31}\sqrt{26}e^{37}$	$(\frac{3}{31}, 0, 0, -\frac{4}{31}, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, \frac{3}{31}, -\frac{4}{31})$ $+\frac{2}{31}\sqrt{42}e^2 \otimes e_9 + \frac{2}{31}\sqrt{6}e^3 \otimes e_4 + \frac{2}{31}\sqrt{6}e^5 \otimes e_8$	{12378, 23567}
942:313	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}\sqrt{2}e^{34}, \frac{2}{5}\sqrt{3}e^{13} + \frac{2}{5}\sqrt{2}e^{26}, \frac{2}{5}\sqrt{6}e^{37}$	$(\frac{4}{15}, -\frac{1}{15}, -\frac{2}{15}, \frac{1}{15}, 1, \frac{1}{5}, -\frac{1}{15}, \frac{2}{15}, -\frac{1}{5})$ $+\frac{4}{5}\sqrt{3}e^5 \otimes e_9$	{123489, 123578, 134689, 135678, 23469, 23567, 349, 357}
942:313	$0, 0, 0, 0, 0, \frac{2}{713}\sqrt{9789}e^{12}, \frac{6}{713}\sqrt{502}e^{34}, \frac{4}{713}\sqrt{5522}e^{13} + \frac{6}{713}\sqrt{502}e^{26}, \frac{2}{713}\sqrt{89858}e^{37}$	$(\frac{156}{713}, \frac{26}{713}, \frac{52}{713}, -\frac{199}{713}, \frac{68}{713}, \frac{182}{713}, -\frac{147}{713}, \frac{208}{713}, -\frac{95}{713})$ $+\frac{1}{713}\sqrt{152106}e^3 \otimes e_4 + \frac{6}{713}\sqrt{4769}e^1 \otimes e_9$	{235689, 23689, 3589, 389}
942:313	$0, 0, 0, 0, 0, \frac{16}{257}\sqrt{17}e^{12}, \frac{16}{257}\sqrt{22}e^{34}, \frac{16}{257}\sqrt{89}e^{13} + \frac{16}{257}\sqrt{22}e^{26}, \frac{16}{257}\sqrt{17}e^{37}$	$(\frac{34}{257}, \frac{28}{257}, \frac{56}{257}, -\frac{72}{257}, -\frac{94}{257}, \frac{62}{257}, -\frac{16}{257}, \frac{90}{257}, \frac{40}{257})$ $+\frac{48}{257}\sqrt{13}e^1 \otimes e_5 + \frac{48}{257}\sqrt{13}e^3 \otimes e_4$	{1239, 1369, 235689, 3589}
942:313	$0, 0, 0, 0, 0, \frac{16}{257}\sqrt{22}e^{12}, \frac{16}{257}\sqrt{22}e^{34}, \frac{16}{257}\sqrt{89}e^{13} + \frac{16}{257}\sqrt{17}e^{26}, \frac{16}{257}\sqrt{17}e^{37}$	$(-\frac{44}{257}, \frac{28}{257}, \frac{56}{257}, -\frac{72}{257}, \frac{140}{257}, -\frac{16}{257}, \frac{16}{257}, \frac{12}{257}, \frac{40}{257})$ $+\frac{48}{257}\sqrt{13}e^3 \otimes e_4 + \frac{48}{257}\sqrt{13}e^5 \otimes e_8$	{123569, 1359, 2389, 3689}
942:313	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{2}e^{12}, \frac{2}{5}\sqrt{6}e^{34}, \frac{2}{5}\sqrt{3}e^{13} + \frac{2}{5}\sqrt{2}e^{26}, \frac{2}{5}\sqrt{2}e^{37}$	$(\frac{4}{15}, -\frac{1}{15}, -\frac{2}{15}, \frac{3}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{7}{15}, \frac{2}{15}, \frac{1}{3})$ $+\frac{4}{5}\sqrt{3}e^4 \otimes e_5$	{123489, 123578, 134689, 135678, 23469, 23567, 349, 357}
942:313	$0, 0, 0, 0, 0, \frac{1}{151}\sqrt{834}e^{12}, \frac{2}{151}\sqrt{3058}e^{34}, \frac{1}{151}\sqrt{5282}e^{13} + \frac{2}{151}\sqrt{3058}e^{26}, \frac{1}{151}\sqrt{834}e^{37}$	$(\frac{6}{151}, -\frac{19}{151}, -\frac{38}{151}, \frac{107}{151}, \frac{28}{151}, -\frac{13}{151}, \frac{69}{151}, -\frac{32}{151}, \frac{31}{151})$ $+\frac{1}{151}\sqrt{34194}e^4 \otimes e_8$	{1258, 128, 1568, 168, 245679, 24679, 4579, 479}
942:313	$0, 0, 0, 0, 0, \frac{8}{121}\sqrt{15}e^{12}, \frac{2}{121}\sqrt{145}e^{34}, \frac{2}{121}\sqrt{235}e^{13} + \frac{8}{121}\sqrt{15}e^{26}, \frac{4}{121}\sqrt{70}e^{37}$	$(\frac{15}{121}, \frac{1}{121}, \frac{2}{121}, -\frac{13}{121}, -\frac{8}{121}, \frac{16}{121}, -\frac{1}{121}, \frac{17}{121}, -\frac{9}{121})$ $+\frac{18}{121}\sqrt{5}e^2 \otimes e_9 + \frac{4}{121}\sqrt{30}e^3 \otimes e_5$	{12378, 134689, 2367, 349}
942:313	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{170}e^{12}, \frac{1}{35}\sqrt{70}e^{34}, \frac{4}{35}\sqrt{10}e^{13} + \frac{4}{35}\sqrt{10}e^{26}, \frac{4}{35}\sqrt{10}e^{37}$	$(\frac{1}{5}, -\frac{1}{35}, -\frac{2}{35}, -\frac{2}{35}, \frac{2}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{1}{7}, -\frac{6}{35})$ $+\frac{1}{35}\sqrt{30}e^1 \otimes e_5 + \frac{3}{35}\sqrt{30}e^2 \otimes e_9$	{12378, 134689, 23567, 3459}
942:313	$0, 0, 0, 0, 0, \frac{8}{115}\sqrt{62}e^{12}, \frac{16}{115}\sqrt{5}e^{34}, \frac{16}{115}\sqrt{7}e^{13} + \frac{8}{115}\sqrt{62}e^{26}, \frac{16}{115}\sqrt{11}e^{37}$	$(-\frac{1}{115}, \frac{17}{115}, \frac{34}{115}, -\frac{6}{23}, -\frac{47}{115}, \frac{16}{115}, \frac{4}{115}, \frac{33}{115}, \frac{38}{115})$ $+\frac{24}{115}\sqrt{14}e^2 \otimes e_5 + \frac{48}{115}\sqrt{2}e^3 \otimes e_4$	{12378, 135678, 2367, 357}
942:313	$0, 0, 0, 0, 0, \frac{8}{121}\sqrt{15}e^{12}, \frac{2}{121}\sqrt{145}e^{34}, \frac{2}{121}\sqrt{235}e^{13} + \frac{4}{121}\sqrt{70}e^{26}, \frac{8}{121}\sqrt{15}e^{37}$	$(\frac{15}{121}, -\frac{7}{121}, -\frac{14}{121}, \frac{1}{121}, \frac{16}{121}, \frac{8}{121}, -\frac{3}{121}, \frac{1}{121}, -\frac{17}{121})$ $+\frac{18}{121}\sqrt{5}e^2 \otimes e_9 + \frac{4}{121}\sqrt{30}e^4 \otimes e_8$	{123578, 12378, 3459, 349}
942:313	$0, 0, 0, 0, 0, \frac{1}{583}\sqrt{85306}e^{12}, \frac{1}{583}\sqrt{19686}e^{34}, \frac{4}{583}\sqrt{1930}e^{13} + \frac{12}{583}\sqrt{386}e^{26}, \frac{16}{583}\sqrt{193}e^{37}$	$(\frac{163}{583}, -\frac{13}{583}, -\frac{26}{583}, \frac{2}{53}, -\frac{206}{583}, \frac{150}{583}, -\frac{4}{583}, \frac{137}{583}, -\frac{30}{583})$ $+\frac{1}{583}\sqrt{89166}e^1 \otimes e_9 + \frac{3}{583}\sqrt{11966}e^2 \otimes e_5$	{12378, 135678, 23469, 3459}
942:313	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{15}e^{12}, \frac{2}{13}\sqrt{3}e^{34}, \frac{2}{13}\sqrt{7}e^{13} + \frac{4}{39}\sqrt{15}e^{26}, \frac{4}{39}\sqrt{15}e^{37}$	$(\frac{7}{39}, -\frac{1}{39}, -\frac{2}{39}, -\frac{1}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{5}{39}, \frac{5}{39}, -\frac{7}{39})$ $+\frac{2}{13}\sqrt{11}e^2 \otimes e_9$	{123578, 12378, 1345689, 134689, 23567, 2367, 3459, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:313	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{5}e^{12}, \frac{4}{11}\sqrt{2}e^{34}, \frac{8}{11}e^{13} + \frac{4}{11}\sqrt{5}e^{26},$ $\frac{4}{11}\sqrt{2}e^{37}$	$(\frac{1}{11}, \frac{1}{11}, \frac{2}{11}, 0, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11})$ $+ \frac{12}{11}e^2 \otimes e_5$	{123489, 12378, 1345689, 135678, 23469, 2367, 3459, 357}
942:313	$0, 0, 0, 0, 0, \frac{12}{583}\sqrt{386}e^{12}, \frac{16}{583}\sqrt{193}e^{34},$ $\frac{4}{583}\sqrt{1930}e^{13} + \frac{4}{583}\sqrt{85306}e^{26}, \frac{1}{583}\sqrt{19686}e^{37}$	$(\frac{9}{583}, -\frac{13}{583}, -\frac{26}{583}, \frac{16}{53}, -\frac{206}{583}, -\frac{4}{583}, \frac{150}{583}, -\frac{17}{583}, \frac{124}{583})$ $+ \frac{1}{583}\sqrt{89166}e^4 \otimes e_8 + \frac{3}{583}\sqrt{11966}e^2 \otimes e_5$	{12378, 135678, 23469, 3459}
942:313	$0, 0, 0, 0, 0, \frac{2}{575}\sqrt{4277}e^{12}, \frac{11}{575}\sqrt{658}e^{34}, \frac{1}{575}\sqrt{658}e^{13} + \frac{11}{575}\sqrt{658}e^{26},$ $\frac{1}{575}\sqrt{63826}e^{37}$	$(\frac{52}{575}, -\frac{14}{115}, -\frac{28}{115}, \frac{241}{575}, \frac{58}{115}, -\frac{18}{575}, \frac{101}{575}, -\frac{88}{575}, -\frac{39}{575})$ $+ \frac{1}{575}\sqrt{140154}e^5 \otimes e_9 + \frac{1}{575}\sqrt{187530}e^4 \otimes e_8$	{123578, 135678, 23469, 349}
942:313	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{273}e^{12}, \frac{1}{47}\sqrt{273}e^{34}, \frac{7}{47}\sqrt{6}e^{13} + \frac{1}{47}\sqrt{273}e^{26},$ $\frac{1}{47}\sqrt{273}e^{37}$	$(\frac{13}{47}, -\frac{7}{47}, -\frac{14}{47}, \frac{20}{47}, \frac{6}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{8}{47})$ $+ \frac{1}{47}\sqrt{861}e^1 \otimes e_9 - \frac{1}{47}\sqrt{861}e^4 \otimes e_8$	{1258, 128, 1568, 168, 245679, 24679, 4579, 479}
942:313	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{273}e^{12}, \frac{1}{47}\sqrt{273}e^{34}, \frac{7}{47}\sqrt{6}e^{13} + \frac{1}{47}\sqrt{273}e^{26},$ $\frac{1}{47}\sqrt{273}e^{37}$	$(\frac{13}{47}, -\frac{7}{47}, -\frac{14}{47}, \frac{20}{47}, \frac{6}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{8}{47})$ $+ \frac{1}{47}\sqrt{861}e^1 \otimes e_9 + \frac{1}{47}\sqrt{861}e^4 \otimes e_8$	{1258, 128, 1568, 168, 245679, 24679, 4579, 479}
942:313	$0, 0, 0, 0, 0, \frac{2}{225}\sqrt{123}e^{12}, \frac{2}{225}\sqrt{123}e^{34}, \frac{2}{75}\sqrt{123}e^{13} + \frac{2}{225}\sqrt{123}e^{26},$ $\frac{1}{75}\sqrt{1886}e^{37}$	$(\frac{4}{225}, \frac{4}{45}, \frac{8}{45}, -\frac{83}{225}, \frac{8}{15}, \frac{8}{75}, -\frac{43}{225}, \frac{44}{225}, -\frac{1}{75})$ $+ \frac{1}{75}\sqrt{2870}e^3 \otimes e_4 + \frac{8}{75}\sqrt{41}e^5 \otimes e_9$	{124789, 146789, 24679, 479}
942:313	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{10}e^{12}, \frac{2}{23}\sqrt{6}e^{34}, \frac{2}{23}\sqrt{11}e^{13} + \frac{2}{23}\sqrt{10}e^{26},$ $\frac{2}{23}\sqrt{10}e^{37}$	$(\frac{4}{23}, -\frac{1}{23}, -\frac{2}{23}, \frac{1}{23}, -\frac{1}{23}, \frac{3}{23}, -\frac{1}{23}, \frac{2}{23}, -\frac{3}{23})$ $+ \frac{4}{23}e^4 \otimes e_5 + \frac{8}{23}e^2 \otimes e_9$	{123578, 134689, 23567, 349}
942:313	$0, 0, 0, 0, 0, \frac{2}{151}\sqrt{3058}e^{12}, \frac{1}{151}\sqrt{834}e^{34}, \frac{1}{151}\sqrt{5282}e^{13} + \frac{1}{151}\sqrt{834}e^{26},$ $\frac{2}{151}\sqrt{3058}e^{37}$	$(\frac{88}{151}, -\frac{19}{151}, -\frac{38}{151}, \frac{25}{151}, \frac{28}{151}, \frac{69}{151}, -\frac{13}{151}, \frac{50}{151}, -\frac{51}{151})$ $+ \frac{1}{151}\sqrt{34194}e^1 \otimes e_9$	{1258, 128, 1568, 168, 245679, 24679, 4579, 479}
942:313	$0, 0, 0, 0, 0, \frac{11}{575}\sqrt{658}e^{12}, \frac{1}{575}\sqrt{63826}e^{34}, \frac{1}{575}\sqrt{658}e^{13} + \frac{2}{575}\sqrt{4277}e^{26},$ $\frac{11}{575}\sqrt{658}e^{37}$	$(\frac{242}{575}, -\frac{14}{115}, -\frac{28}{115}, \frac{193}{575}, -\frac{136}{575}, \frac{172}{575}, \frac{53}{575}, \frac{102}{575}, -\frac{87}{575})$ $+ \frac{1}{575}\sqrt{140154}e^4 \otimes e_5 + \frac{1}{575}\sqrt{187530}e^1 \otimes e_9$	{123578, 135678, 23469, 349}
942:313	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{1166}e^{12}, \frac{2}{47}\sqrt{53}e^{34}, \frac{2}{47}\sqrt{371}e^{13} + \frac{2}{47}\sqrt{53}e^{26},$ $\frac{2}{47}\sqrt{53}e^{37}$	$(\frac{22}{47}, -\frac{1}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{31}{47}, \frac{21}{47}, \frac{8}{47}, \frac{20}{47}, \frac{6}{47})$ $+ \frac{1}{47}\sqrt{4134}e^1 \otimes e_5$	{123, 123479, 134679, 136, 23456789, 23568, 345789, 358}
942:313	$0, 0, 0, 0, 0, \frac{8}{169}\sqrt{41}e^{12}, \frac{4}{169}\sqrt{205}e^{34}, \frac{4}{169}\sqrt{410}e^{13} + \frac{4}{169}\sqrt{205}e^{26},$ $\frac{2}{169}\sqrt{287}e^{37}$	$(\frac{32}{169}, -\frac{17}{169}, -\frac{34}{169}, \frac{80}{169}, -\frac{50}{169}, \frac{15}{169}, \frac{46}{169}, -\frac{2}{169}, \frac{12}{169})$ $+ \frac{18}{169}\sqrt{41}e^4 \otimes e_8 + \frac{2}{169}\sqrt{2829}e^1 \otimes e_5$	{1289, 1689, 24567, 457}
942:313	$0, 0, 0, 0, 0, \frac{1}{151}\sqrt{834}e^{12}, \frac{2}{151}\sqrt{3058}e^{34}, \frac{1}{151}\sqrt{5282}e^{13} + \frac{1}{151}\sqrt{834}e^{26},$ $\frac{2}{151}\sqrt{3058}e^{37}$	$(\frac{6}{151}, \frac{22}{151}, \frac{44}{151}, -\frac{16}{151}, -\frac{95}{151}, \frac{28}{151}, \frac{28}{151}, \frac{50}{151}, \frac{72}{151})$ $+ \frac{1}{151}\sqrt{34194}e^3 \otimes e_5$	{1245789, 1258, 1456789, 1568, 245679, 256, 4579, 5}
942:313	$0, 0, 0, 0, 0, \frac{4}{277}\sqrt{407}e^{12}, \frac{4}{277}\sqrt{407}e^{34}, \frac{4}{277}\sqrt{473}e^{13} + \frac{8}{277}\sqrt{11}e^{26},$ $\frac{4}{277}\sqrt{858}e^{37}$	$(\frac{74}{277}, -\frac{2}{277}, -\frac{4}{277}, -\frac{6}{277}, -\frac{92}{277}, \frac{72}{277}, -\frac{10}{277}, \frac{70}{277}, -\frac{14}{277})$ $+ \frac{4}{277}\sqrt{1353}e^1 \otimes e_9 + \frac{4}{277}\sqrt{1353}e^3 \otimes e_5$	{1237, 1367, 234689, 3489}
942:313	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{10}e^{12}, \frac{1}{35}\sqrt{70}e^{34}, \frac{4}{35}\sqrt{10}e^{13} + \frac{4}{35}\sqrt{10}e^{26},$ $\frac{1}{35}\sqrt{170}e^{37}$	$(\frac{1}{7}, 0, 0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{35}\sqrt{30}e^3 \otimes e_4 + \frac{3}{35}\sqrt{30}e^2 \otimes e_9$	{123578, 12378, 23567, 2367}
942:313	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{205}e^{12}, \frac{2}{169}\sqrt{287}e^{34}, \frac{4}{169}\sqrt{410}e^{13} + \frac{8}{169}\sqrt{41}e^{26},$ $\frac{4}{169}\sqrt{205}e^{37}$	$(\frac{40}{169}, -\frac{17}{169}, -\frac{34}{169}, \frac{2}{13}, \frac{88}{169}, \frac{23}{169}, -\frac{8}{169}, \frac{6}{169}, -\frac{42}{169})$ $+ \frac{18}{169}\sqrt{41}e^1 \otimes e_9 + \frac{2}{169}\sqrt{2829}e^5 \otimes e_8$	{1248, 1468, 25679, 579}
942:313	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{53}e^{12}, \frac{2}{47}\sqrt{53}e^{34}, \frac{2}{47}\sqrt{371}e^{13} + \frac{2}{47}\sqrt{53}e^{26},$ $\frac{1}{47}\sqrt{1166}e^{37}$	$(-\frac{4}{47}, \frac{12}{47}, \frac{24}{47}, -\frac{29}{47}, \frac{8}{47}, \frac{8}{47}, -\frac{5}{47}, \frac{20}{47}, \frac{19}{47})$ $+ \frac{1}{47}\sqrt{4134}e^3 \otimes e_4$	{124568, 12468, 1458, 148, 24, 245, 456, 46}
942:313	$0, 0, 0, 0, 0, \frac{132}{4577}\sqrt{22}e^{12}, \frac{88}{4577}\sqrt{83}e^{34},$ $\frac{44}{4577}\sqrt{1319}e^{13} + \frac{44}{4577}\sqrt{59}e^{26}, \frac{44}{4577}\sqrt{695}e^{37}$	$(\frac{396}{4577}, \frac{66}{4577}, \frac{132}{4577}, -\frac{836}{4577}, \frac{1496}{4577}, \frac{462}{4577}, -\frac{704}{4577}, \frac{528}{4577}, -\frac{572}{4577})$ $+ \frac{44}{4577}\sqrt{1173}e^5 \otimes e_8 + \frac{44}{4577}\sqrt{1491}e^3 \otimes e_4 + \frac{44}{4577}\sqrt{1590}e^1 \otimes e_9$	{1248, 1468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:313	$0, 0, 0, 0, 0, \frac{8}{277}\sqrt{11}e^{12}, \frac{4}{277}\sqrt{858}e^{34}, \frac{4}{277}\sqrt{473}e^{13} + \frac{4}{277}\sqrt{407}e^{26},$ $\frac{4}{277}\sqrt{407}e^{37}$	$(-\frac{8}{277}, -\frac{2}{277}, -\frac{4}{277}, \frac{76}{277}, -\frac{92}{277}, -\frac{10}{277}, \frac{72}{277}, -\frac{12}{277}, \frac{68}{277})$ $+ \frac{4}{277}\sqrt{1353}e^3 \otimes e_5 + \frac{4}{277}\sqrt{1353}e^4 \otimes e_8$	{123469, 1349, 2378, 3678}
942:314	$0, 0, 0, 0, 0, \frac{1}{573}\sqrt{111210}e^{12}, \frac{1}{191}\sqrt{674}e^{34}, \frac{1}{573}\sqrt{128734}e^{16},$ $\frac{2}{573}\sqrt{13143}e^{23} + \frac{1}{573}\sqrt{111210}e^{47}$	$(\frac{217}{573}, -\frac{46}{191}, \frac{6}{191}, -\frac{23}{191}, \frac{35}{191}, \frac{79}{191}, -\frac{17}{191}, \frac{296}{573}, -\frac{40}{191})$ $+ \frac{2}{191}\sqrt{8762}e^1 \otimes e_9$	{14567, 1467, 156, 16, 3459, 349, 3579, 379}
942:314	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{74}e^{12}, \frac{1}{33}\sqrt{74}e^{34}, \frac{2}{33}\sqrt{37}e^{16},$ $\frac{1}{11}\sqrt{74}e^{23} + \frac{4}{33}\sqrt{37}e^{47}$	$(\frac{5}{33}, -\frac{2}{33}, -\frac{2}{33}, -\frac{1}{33}, 1, \frac{1}{11}, -\frac{1}{11}, \frac{8}{33}, -\frac{4}{33})$ $+ \frac{1}{11}\sqrt{222}e^5 \otimes e_9$	{1234567, 12356, 12469, 12679, 23457, 235, 249, 279}
942:314	$0, 0, 0, 0, 0, \frac{4}{279}\sqrt{259}e^{12}, \frac{8}{279}\sqrt{105}e^{34}, \frac{4}{279}\sqrt{805}e^{16},$ $\frac{4}{279}\sqrt{1155}e^{23} + \frac{4}{279}\sqrt{238}e^{47}$	$(-\frac{89}{558}, \frac{37}{279}, \frac{20}{93}, \frac{37}{558}, -\frac{25}{93}, -\frac{5}{186}, \frac{157}{558}, -\frac{52}{279}, \frac{97}{279})$ $+ \frac{4}{279}\sqrt{1491}e^2 \otimes e_5 + \frac{4}{279}\sqrt{1974}e^3 \otimes e_8$	{124789, 1289, 246789, 2689}
942:314	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{2814}e^{12}, \frac{2}{141}\sqrt{2010}e^{34}, \frac{1}{141}\sqrt{6298}e^{16},$ $\frac{1}{141}\sqrt{5226}e^{23} + \frac{2}{141}\sqrt{2010}e^{47}$	$(-\frac{44}{141}, \frac{14}{47}, \frac{1}{47}, \frac{7}{47}, \frac{8}{47}, -\frac{2}{141}, \frac{8}{47}, -\frac{46}{141}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{1742}e^4 \otimes e_8$	{1235789, 123789, 1258, 128, 2356789, 236789, 2568, 268}
942:314	$0, 0, 0, 0, 0, \frac{1}{495}\sqrt{30130}e^{12}, \frac{1}{99}\sqrt{138}e^{34}, \frac{1}{495}\sqrt{24610}e^{16},$ $\frac{2}{495}\sqrt{5865}e^{23} + \frac{1}{495}\sqrt{16790}e^{47}$	$(\frac{83}{495}, -\frac{2}{495}, -\frac{2}{33}, -\frac{1}{495}, -\frac{13}{55}, \frac{9}{55}, -\frac{31}{495}, \frac{164}{495}, -\frac{32}{495})$ $+ \frac{2}{495}\sqrt{10005}e^2 \otimes e_5 + \frac{4}{495}\sqrt{3795}e^1 \otimes e_9$	{123478, 1238, 24689, 26789}
942:314	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{2121}e^{12}, \frac{2}{111}\sqrt{606}e^{34}, \frac{1}{111}\sqrt{7474}e^{16},$ $\frac{1}{111}\sqrt{3030}e^{23} + \frac{2}{111}\sqrt{606}e^{47}$	$(\frac{32}{111}, -\frac{2}{37}, \frac{8}{37}, -\frac{1}{37}, -\frac{23}{37}, \frac{26}{111}, \frac{7}{37}, \frac{58}{111}, \frac{6}{37})$ $+ \frac{2}{37}\sqrt{505}e^1 \otimes e_5$	{123489, 123789, 12478, 128, 2345689, 2356789, 245678, 2568}
942:314	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{70}e^{12}, \frac{1}{117}\sqrt{3010}e^{34}, \frac{14}{117}\sqrt{10}e^{16},$ $\frac{1}{117}\sqrt{210}e^{23} + \frac{8}{117}\sqrt{35}e^{47}$	$(-\frac{22}{117}, \frac{2}{13}, \frac{17}{117}, \frac{13}{13}, -\frac{2}{13}, -\frac{4}{117}, \frac{2}{9}, -\frac{2}{9}, \frac{35}{117})$ $+ \frac{1}{117}\sqrt{2310}e^3 \otimes e_5 + \frac{1}{117}\sqrt{4830}e^4 \otimes e_8$	{123789, 1258, 236789, 2568}
942:314	$0, 0, 0, 0, 0, \frac{4}{33}\sqrt{37}e^{12}, \frac{1}{33}\sqrt{74}e^{34}, \frac{2}{33}\sqrt{37}e^{16},$ $\frac{1}{11}\sqrt{74}e^{23} + \frac{1}{33}\sqrt{74}e^{47}$	$(-\frac{4}{33}, \frac{16}{33}, -\frac{2}{33}, \frac{8}{33}, -\frac{7}{11}, \frac{4}{11}, \frac{2}{11}, \frac{8}{33}, \frac{14}{33})$ $+ \frac{1}{11}\sqrt{222}e^2 \otimes e_5$	{1345679, 13569, 1456, 1567, 34579, 359, 45, 57}
942:314	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{74}e^{12}, \frac{4}{33}\sqrt{37}e^{34}, \frac{2}{33}\sqrt{37}e^{16},$ $\frac{1}{11}\sqrt{74}e^{23} + \frac{1}{33}\sqrt{74}e^{47}$	$(\frac{5}{33}, -\frac{2}{33}, \frac{16}{33}, -\frac{1}{33}, -\frac{7}{11}, \frac{1}{11}, \frac{5}{11}, \frac{8}{33}, \frac{14}{33})$ $+ \frac{1}{11}\sqrt{222}e^3 \otimes e_5$	{12346, 12367, 1245679, 12569, 234, 237, 24579, 259}
942:314	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42}e^{12}, \frac{1}{51}\sqrt{210}e^{34}, \frac{1}{51}\sqrt{238}e^{16},$ $\frac{2}{51}\sqrt{42}e^{23} + \frac{1}{51}\sqrt{210}e^{47}$	$(-\frac{5}{51}, \frac{2}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{4}{17}, \frac{1}{51}, \frac{2}{17}, -\frac{4}{51}, \frac{3}{17})$ $+ \frac{1}{17}\sqrt{42}e^4 \otimes e_8 + \frac{2}{17}\sqrt{7}e^1 \otimes e_5$	{123789, 128, 2356789, 2568}
942:314	$0, 0, 0, 0, 0, \frac{5}{2253}\sqrt{1302}e^{12}, \frac{28}{751}\sqrt{5}e^{34}, \frac{1}{2253}\sqrt{52570}e^{16},$ $\frac{3}{2253}\sqrt{546}e^{23} + \frac{4}{2253}\sqrt{3570}e^{47}$	$(-\frac{16}{2253}, -\frac{2}{751}, -\frac{15}{751}, -\frac{1}{751}, \frac{88}{751}, -\frac{22}{2253}, -\frac{16}{751}, -\frac{38}{2253}, -\frac{17}{751})$ $+ \frac{3}{751}\sqrt{910}e^4 \otimes e_8 + \frac{4}{751}\sqrt{455}e^1 \otimes e_9$	{1258, 128, 2356789, 236789}
942:314	$0, 0, 0, 0, 0, \frac{2}{273}\sqrt{4469}e^{12}, \frac{4}{273}\sqrt{3161}e^{34}, \frac{8}{273}\sqrt{109}e^{16},$ $\frac{10}{273}\sqrt{327}e^{23} + \frac{4}{273}\sqrt{3161}e^{47}$	$(-\frac{3}{91}, \frac{82}{273}, \frac{1}{39}, \frac{41}{273}, -\frac{59}{91}, \frac{73}{273}, \frac{16}{91}, \frac{64}{273}, \frac{89}{273})$ $+ \frac{10}{91}\sqrt{109}e^4 \otimes e_5$	{123489, 1235789, 12478, 1258, 234689, 2356789, 24678, 2568}
942:314	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{109}e^{12}, \frac{2}{273}\sqrt{7194}e^{34}, \frac{2}{273}\sqrt{9919}e^{16},$ $\frac{10}{273}\sqrt{327}e^{23} + \frac{2}{91}\sqrt{109}e^{47}$	$(-\frac{34}{273}, -\frac{6}{91}, \frac{44}{91}, -\frac{3}{91}, \frac{16}{91}, -\frac{4}{21}, \frac{41}{91}, -\frac{86}{273}, \frac{38}{91})$ $+ \frac{10}{91}\sqrt{109}e^3 \otimes e_8$	{123456, 12346, 123567, 12367, 234, 2345, 2357, 237}
942:314	$0, 0, 0, 0, 0, \frac{1}{117}\sqrt{70}e^{12}, \frac{8}{117}\sqrt{35}e^{34}, \frac{14}{117}\sqrt{10}e^{16},$ $\frac{2}{117}\sqrt{210}e^{23} + \frac{1}{117}\sqrt{3010}e^{47}$	$(-\frac{22}{117}, \frac{2}{13}, -\frac{5}{117}, \frac{1}{13}, \frac{16}{39}, -\frac{4}{117}, \frac{4}{117}, -\frac{2}{9}, \frac{1}{9})$ $+ \frac{1}{117}\sqrt{2310}e^5 \otimes e_9 + \frac{1}{117}\sqrt{4830}e^4 \otimes e_8$	{123789, 1258, 236789, 2568}
942:314	$0, 0, 0, 0, 0, \frac{14}{4353}\sqrt{9951}e^{12}, \frac{22}{4353}\sqrt{4494}e^{34}, \frac{2}{4353}\sqrt{1086799}e^{16},$ $\frac{10}{4353}\sqrt{11235}e^{23} + \frac{2}{4353}\sqrt{38199}e^{47}$	$(\frac{226}{4353}, -\frac{166}{1451}, \frac{484}{1451}, -\frac{83}{1451}, -\frac{424}{1451}, -\frac{272}{4353}, \frac{401}{1451}, -\frac{46}{4353}, \frac{318}{1451})$ $+ \frac{20}{1451}\sqrt{1498}e^1 \otimes e_5 + \frac{30}{1451}\sqrt{749}e^3 \otimes e_8$	{13469, 13679, 3459, 3579}
942:314	$0, 0, 0, 0, 0, \frac{1}{279}\sqrt{9130}e^{12}, \frac{1}{279}\sqrt{498}e^{34}, \frac{1}{279}\sqrt{15438}e^{16},$ $\frac{3}{279}\sqrt{1079}e^{23} + \frac{1}{279}\sqrt{9130}e^{47}$	$(\frac{43}{279}, -\frac{46}{279}, \frac{2}{93}, -\frac{23}{279}, \frac{41}{93}, -\frac{1}{93}, -\frac{17}{279}, \frac{40}{279}, -\frac{40}{279})$ $+ \frac{2}{279}\sqrt{6474}e^1 \otimes e_9 + \frac{4}{279}\sqrt{913}e^5 \otimes e_8$	{14567, 156, 3459, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:314	$0, 0, 0, 0, 0, \frac{2}{3933}\sqrt{409145e^{12}}, \frac{4}{3933}\sqrt{87978e^{34}}, \frac{40}{3933}\sqrt{946e^{16}},$ $\frac{2}{3933}\sqrt{92235e^{23}} + \frac{344}{3933}\sqrt{22e^{47}}$	$(\frac{245}{1311}, -\frac{166}{3933}, -\frac{5}{437}, -\frac{83}{3933}, -\frac{343}{1311}, \frac{569}{3933}, -\frac{128}{3933}, \frac{1304}{3933}, -\frac{211}{3933})$ $+ \frac{2}{3933}\sqrt{725109e^4} \otimes e_5 + \frac{4}{3933}\sqrt{224202e^1} \otimes e_9$	{12478, 1258, 234689, 2356789}
942:314	$0, 0, 0, 0, 0, \frac{2}{1527}\sqrt{23205e^{12}}, \frac{4}{1527}\sqrt{4641e^{34}}, \frac{2}{1527}\sqrt{60571e^{16}},$ $\frac{2}{1527}\sqrt{38913e^{23}} + \frac{2}{1527}\sqrt{23205e^{47}}$	$(\frac{208}{1527}, -\frac{114}{509}, \frac{104}{509}, -\frac{57}{509}, \frac{60}{509}, -\frac{134}{1527}, \frac{47}{509}, \frac{74}{1527}, -\frac{10}{509})$ $+ \frac{2}{1527}\sqrt{73185e^3} \otimes e_8 + \frac{4}{1527}\sqrt{21777e^1} \otimes e_9$	{3459, 349, 3579, 379}
942:314	$0, 0, 0, 0, 0, \frac{4}{279}\sqrt{238e^{12}}, \frac{8}{279}\sqrt{105e^{34}}, \frac{4}{279}\sqrt{805e^{16}},$ $\frac{4}{279}\sqrt{1155e^{23}} + \frac{4}{279}\sqrt{259e^{47}}$	$(-\frac{1}{31}, -\frac{34}{279}, \frac{20}{93}, -\frac{17}{279}, \frac{46}{93}, -\frac{43}{279}, \frac{43}{279}, -\frac{52}{279}, \frac{26}{279})$ $+ \frac{4}{279}\sqrt{1491e^5} \otimes e_9 + \frac{4}{279}\sqrt{1974e^3} \otimes e_8$	{14578, 158, 45678, 568}
942:314	$0, 0, 0, 0, 0, \frac{1}{461}\sqrt{28490e^{12}}, \frac{1}{461}\sqrt{52910e^{34}}, \frac{11}{461}\sqrt{370e^{16}},$ $\frac{2}{461}\sqrt{6105e^{23}} + \frac{1}{461}\sqrt{52910e^{47}}$	$(-\frac{131}{461}, \frac{154}{461}, -\frac{10}{461}, \frac{77}{461}, -\frac{31}{461}, \frac{23}{461}, \frac{67}{461}, -\frac{108}{461}, \frac{144}{461})$ $+ \frac{148}{461}\sqrt{5e^4} \otimes e_8 + \frac{14}{461}\sqrt{185e^2} \otimes e_5$	{123789, 128, 236789, 268}
942:314	$0, 0, 0, 0, 0, \frac{3}{167}\sqrt{354e^{12}}, \frac{2}{167}\sqrt{413e^{34}}, \frac{2}{167}\sqrt{1121e^{16}},$ $\frac{3}{167}\sqrt{3894e^{23}} + \frac{3}{167}\sqrt{354e^{47}}$	$(\frac{49}{167}, -\frac{38}{167}, \frac{28}{167}, -\frac{19}{167}, -\frac{31}{167}, \frac{11}{167}, \frac{9}{167}, \frac{60}{167}, -\frac{10}{167})$ $+ \frac{1}{167}\sqrt{6254e^3} \otimes e_5 + \frac{2}{167}\sqrt{2714e^1} \otimes e_9$	{14567, 156, 349, 379}
942:315	$0, 0, 0, 0, 0, \frac{1}{737}\sqrt{67830e^{12}}, \frac{6}{737}\sqrt{595e^{34}}, \frac{2}{737}\sqrt{13566e^{16}},$ $\frac{1}{737}\sqrt{112098e^{15}} + \frac{1}{737}\sqrt{67830e^{37}}$	$(-\frac{238}{737}, \frac{347}{737}, -\frac{35}{737}, \frac{60}{737}, \frac{228}{737}, \frac{109}{737}, \frac{25}{737}, -\frac{129}{737}, -\frac{10}{737})$ $+ \frac{1}{737}\sqrt{210630e^5} \otimes e_8 + \frac{8}{737}\sqrt{3927e^2} \otimes e_9$	{23678, 268, 3459, 4579}
942:315	$0, 0, 0, 0, 0, \frac{1}{237}\sqrt{3026e^{12}}, \frac{1}{237}\sqrt{1246e^{34}}, \frac{1}{237}\sqrt{9790e^{16}},$ $\frac{4}{79}\sqrt{89e^{15}} + \frac{1}{237}\sqrt{3026e^{37}}$	$(\frac{19}{237}, -\frac{70}{237}, \frac{31}{237}, \frac{14}{237}, \frac{19}{237}, \frac{19}{79}, -\frac{17}{79}, \frac{15}{79}, -\frac{32}{237}, \frac{76}{237})$ $+ \frac{2}{79}\sqrt{534e^1} \otimes e_2 + \frac{2}{79}\sqrt{534e^5} \otimes e_8$	{13789, 189, 23579, 259}
942:315	$0, 0, 0, 0, 0, \frac{1}{525}\sqrt{4942e^{12}}, \frac{2}{525}\sqrt{3883e^{34}}, \frac{4}{525}\sqrt{3883e^{16}},$ $\frac{1}{175}\sqrt{3530e^{15}} + \frac{1}{525}\sqrt{55774e^{37}}$	$(-\frac{74}{525}, \frac{59}{525}, \frac{181}{525}, -\frac{172}{525}, \frac{88}{175}, -\frac{1}{35}, \frac{3}{175}, -\frac{89}{525}, \frac{38}{105})$ $+ \frac{3}{175}\sqrt{2118e^5} \otimes e_8 + \frac{4}{175}\sqrt{1059e^3} \otimes e_4$	{124789, 13567, 23678, 4579}
942:315	$0, 0, 0, 0, 0, \frac{4}{4353}\sqrt{295106e^{12}}, \frac{8}{4353}\sqrt{8239e^{34}}, \frac{8}{4353}\sqrt{45689e^{16}},$ $\frac{10}{4353}\sqrt{11235e^{15}} + \frac{2}{4353}\sqrt{674849e^{37}}$	$(\frac{376}{4353}, \frac{752}{4353}, -\frac{183}{1451}, \frac{352}{4353}, -\frac{374}{1451}, \frac{376}{1451}, -\frac{197}{4353}, \frac{1504}{4353}, -\frac{746}{4353})$ $+ \frac{20}{1451}\sqrt{1498e^2} \otimes e_9 + \frac{30}{1451}\sqrt{749e^1} \otimes e_5$	{12378, 128, 235678, 2568}
942:315	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{70e^{12}}, \frac{14}{117}\sqrt{10e^{34}}, \frac{1}{117}\sqrt{3010e^{16}},$ $\frac{2}{117}\sqrt{210e^{15}} + \frac{8}{117}\sqrt{35e^{37}}$	$(\frac{8}{117}, -\frac{3}{13}, \frac{8}{39}, -\frac{1}{9}, \frac{1}{13}, -\frac{19}{117}, \frac{11}{117}, -\frac{11}{117}, \frac{35}{117})$ $+ \frac{1}{117}\sqrt{2310e^1} \otimes e_2 + \frac{1}{117}\sqrt{4830e^3} \otimes e_8$	{134569, 1367, 246789, 2568}
942:315	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{101e^{12}}, \frac{1}{111}\sqrt{1414e^{34}}, \frac{2}{111}\sqrt{101e^{16}},$ $\frac{1}{111}\sqrt{3030e^{15}} + \frac{8}{111}\sqrt{101e^{37}}$	$(-\frac{28}{111}, \frac{79}{111}, -\frac{6}{37}, \frac{14}{111}, \frac{2}{37}, \frac{17}{37}, -\frac{4}{111}, \frac{23}{111}, -\frac{22}{111})$ $+ \frac{2}{37}\sqrt{505e^2} \otimes e_9$	{123578, 1258, 13469, 14679, 23678, 268, 3459, 4579}
942:315	$0, 0, 0, 0, 0, \frac{16}{1971}\sqrt{1293e^{12}}, \frac{1}{1971}\sqrt{378418e^{34}}, \frac{1}{1971}\sqrt{449102e^{16}},$ $\frac{2}{1971}\sqrt{53013e^{15}} + \frac{1}{1971}\sqrt{637018e^{37}}$	$(-\frac{407}{1971}, \frac{58}{219}, \frac{139}{1971}, -\frac{187}{1971}, \frac{166}{657}, \frac{115}{1971}, -\frac{16}{657}, -\frac{4}{27}, \frac{91}{1971})$ $+ \frac{1}{1971}\sqrt{918030e^3} \otimes e_8 + \frac{2}{1971}\sqrt{140937e^2} \otimes e_9$	{128, 134569, 2568, 349}
942:315	$0, 0, 0, 0, 0, \frac{1}{525}\sqrt{4942e^{12}}, \frac{2}{525}\sqrt{3883e^{34}}, \frac{4}{525}\sqrt{3883e^{16}},$ $\frac{1}{175}\sqrt{3530e^{15}} + \frac{1}{525}\sqrt{55774e^{37}}$	$(\frac{169}{525}, -\frac{184}{525}, \frac{181}{525}, -\frac{172}{525}, \frac{1}{25}, -\frac{1}{35}, \frac{3}{175}, \frac{22}{75}, \frac{38}{105})$ $+ \frac{3}{175}\sqrt{2118e^1} \otimes e_2 + \frac{4}{175}\sqrt{1059e^3} \otimes e_4$	{13567, 14679, 23678, 2456789}
942:315	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{2814e^{12}}, \frac{1}{141}\sqrt{6298e^{34}}, \frac{2}{141}\sqrt{2010e^{16}},$ $\frac{1}{141}\sqrt{5226e^{15}} + \frac{2}{141}\sqrt{2010e^{37}}$	$(-\frac{6}{47}, \frac{1}{47}, \frac{34}{141}, -\frac{23}{141}, \frac{21}{47}, -\frac{5}{47}, \frac{11}{141}, -\frac{11}{47}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{1742e^3} \otimes e_8$	{1245789, 128, 134569, 1367, 246789, 2568, 349, 357}
942:315	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{606e^{12}}, \frac{1}{111}\sqrt{7474e^{34}}, \frac{2}{111}\sqrt{2121e^{16}},$ $\frac{1}{111}\sqrt{3030e^{15}} + \frac{2}{111}\sqrt{606e^{37}}$	$(-\frac{6}{37}, \frac{3}{37}, -\frac{28}{111}, \frac{2}{37}, \frac{12}{37}, -\frac{3}{37}, \frac{46}{111}, -\frac{9}{37}, \frac{6}{37})$ $+ \frac{2}{37}\sqrt{505e^4} \otimes e_8$	{12378, 128, 134569, 145679, 235678, 2568, 349, 479}
942:315	$0, 0, 0, 0, 0, \frac{1}{537}\sqrt{77998e^{12}}, \frac{1}{537}\sqrt{46270e^{34}}, \frac{1}{537}\sqrt{77998e^{16}},$ $\frac{4}{179}\sqrt{661e^{15}} + \frac{1}{537}\sqrt{268366e^{37}}$	$(\frac{59}{537}, \frac{46}{537}, \frac{299}{537}, -\frac{362}{537}, \frac{59}{179}, \frac{35}{179}, -\frac{21}{179}, \frac{164}{537}, \frac{236}{537})$ $+ \frac{4}{179}\sqrt{3966e^3} \otimes e_4$	{12378, 1245789, 1367, 145679, 235678, 246789, 357, 479}
942:315	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{74e^{12}}, \frac{2}{33}\sqrt{37e^{34}}, \frac{4}{33}\sqrt{37e^{16}},$ $\frac{1}{11}\sqrt{74e^{15}} + \frac{1}{33}\sqrt{74e^{37}}$	$(\frac{17}{33}, -\frac{20}{33}, \frac{5}{33}, \frac{4}{33}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, \frac{14}{33}, \frac{14}{33})$ $+ \frac{1}{11}\sqrt{222e^1} \otimes e_2$	{13458, 13789, 14578, 189, 234, 23579, 247, 259}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:315	$0, 0, 0, 0, 0, \frac{319}{2589}\sqrt{2}e^{12}, \frac{29}{2589}\sqrt{142}e^{34}, \frac{29}{2589}\sqrt{1054}e^{16},$ $\frac{232}{863}\sqrt{2}e^{15} + \frac{29}{2589}\sqrt{46}e^{37}$	$(\frac{203}{2589}, -\frac{638}{2589}, \frac{551}{2589}, -\frac{290}{2589}, \frac{203}{863}, -\frac{145}{863}, \frac{87}{863}, -\frac{232}{2589}, \frac{812}{2589})$ $+ \frac{116}{863}\sqrt{6}e^3 \otimes e_4 + \frac{174}{863}\sqrt{6}e^1 \otimes e_2 + \frac{174}{863}\sqrt{6}e^5 \otimes e_8$	{14789, 24579}
942:315	$0, 0, 0, 0, 0, \frac{4}{273}\sqrt{3161}e^{12}, \frac{8}{273}\sqrt{109}e^{34}, \frac{4}{273}\sqrt{3161}e^{16},$ $\frac{10}{273}\sqrt{327}e^{15} + \frac{2}{273}\sqrt{4469}e^{37}$	$(\frac{116}{273}, -\frac{68}{273}, -\frac{3}{91}, \frac{32}{273}, -\frac{34}{91}, \frac{16}{273}, \frac{23}{273}, \frac{164}{273}, \frac{2}{39})$ $+ \frac{10}{91}\sqrt{109}e^1 \otimes e_5$	{12378, 128, 1367, 16, 235678, 2568, 357, 5}
942:315	$0, 0, 0, 0, 0, \frac{4}{1477}\sqrt{37410}e^{12}, \frac{8}{1477}\sqrt{1290}e^{34}, \frac{4}{1477}\sqrt{37410}e^{16},$ $\frac{8}{1477}\sqrt{7439}e^{15} + \frac{8}{1477}\sqrt{7482}e^{37}$	$(\frac{435}{1477}, -\frac{255}{1477}, \frac{290}{1477}, -\frac{398}{1477}, -\frac{253}{1477}, \frac{180}{1477}, -\frac{108}{1477}, \frac{615}{1477}, \frac{26}{211})$ $+ \frac{4}{1477}\sqrt{66994}e^1 \otimes e_5 + \frac{8}{1477}\sqrt{11137}e^3 \otimes e_4$	{12378, 1367, 235678, 357}
942:315	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{74}e^{12}, \frac{2}{33}\sqrt{37}e^{34}, \frac{4}{33}\sqrt{37}e^{16},$ $\frac{1}{11}\sqrt{74}e^{15} + \frac{1}{33}\sqrt{74}e^{37}$	$(-\frac{10}{33}, \frac{7}{33}, \frac{5}{33}, \frac{4}{33}, \frac{8}{11}, -\frac{1}{11}, \frac{3}{11}, -\frac{13}{33}, \frac{14}{33})$ $+ \frac{1}{11}\sqrt{222}e^5 \otimes e_8$	{123456, 124567, 13789, 189, 23579, 259, 3468, 4678}
942:315	$0, 0, 0, 0, 0, \frac{2}{4977}\sqrt{855094}e^{12}, \frac{4}{4977}\sqrt{141661}e^{34}, \frac{2}{1659}\sqrt{144866}e^{16},$ $\frac{10}{1659}\sqrt{3205}e^{15} + \frac{2}{4977}\sqrt{358319}e^{37}$	$(\frac{634}{4977}, -\frac{782}{4977}, -\frac{99}{553}, \frac{1768}{4977}, -\frac{72}{553}, -\frac{148}{4977}, \frac{877}{4977}, \frac{54}{553}, -\frac{2}{711})$ $+ \frac{10}{4977}\sqrt{59613}e^1 \otimes e_5 + \frac{20}{4977}\sqrt{13461}e^4 \otimes e_8$	{12378, 128, 235678, 2568}
942:315	$0, 0, 0, 0, 0, \frac{1}{2313}\sqrt{203406}e^{12}, \frac{5}{2313}\sqrt{6346}e^{34}, \frac{20}{2313}\sqrt{835}e^{16},$ $\frac{1}{2313}\sqrt{229458}e^{15} + \frac{8}{2313}\sqrt{3674}e^{37}$	$(\frac{218}{2313}, -\frac{119}{771}, \frac{82}{771}, -\frac{223}{2313}, \frac{17}{771}, -\frac{2313}{2313}, \frac{23}{2313}, \frac{79}{2313}, \frac{269}{2313})$ $+ \frac{1}{2313}\sqrt{391782}e^3 \otimes e_8 + \frac{4}{2313}\sqrt{18537}e^1 \otimes e_5$	{128, 1367, 2568, 357}
942:315	$0, 0, 0, 0, 0, \frac{2}{197}\sqrt{174}e^{12}, \frac{3}{197}\sqrt{754}e^{34}, \frac{2}{197}\sqrt{2697}e^{16},$ $\frac{1}{197}\sqrt{1914}e^{15} + \frac{2}{197}\sqrt{174}e^{37}$	$(\frac{26}{197}, -\frac{61}{197}, -\frac{20}{197}, \frac{78}{197}, \frac{12}{197}, -\frac{35}{197}, \frac{58}{197}, -\frac{9}{197}, \frac{38}{197})$ $+ \frac{2}{197}\sqrt{4089}e^4 \otimes e_8 + \frac{4}{197}\sqrt{870}e^1 \otimes e_2$	{13469, 14679, 23678, 268}
942:315	$0, 0, 0, 0, 0, \frac{2}{5157}\sqrt{1177473}e^{12}, \frac{2}{5157}\sqrt{233653}e^{34}, \frac{4}{5157}\sqrt{49493}e^{16},$ $\frac{2}{5157}\sqrt{107043}e^{15} + \frac{4}{5157}\sqrt{485722}e^{37}$	$(-\frac{679}{5157}, \frac{713}{1719}, \frac{713}{5157}, -\frac{1589}{5157}, \frac{172}{1719}, \frac{1460}{5157}, -\frac{292}{1719}, \frac{781}{5157}, -\frac{163}{5157})$ $+ \frac{2}{5157}\sqrt{2296245}e^3 \otimes e_4 + \frac{4}{5157}\sqrt{2938503}e^2 \otimes e_9$	{123578, 14679, 23678, 4579}
942:315	$0, 0, 0, 0, 0, \frac{57}{10141}\sqrt{2542}e^{12}, \frac{114}{10141}\sqrt{165}e^{34}, \frac{114}{10141}\sqrt{418}e^{16},$ $\frac{37}{10141}\sqrt{2098}e^{15} + \frac{285}{10141}\sqrt{174}e^{37}$	$(-\frac{2166}{10141}, \frac{3591}{10141}, \frac{1197}{10141}, -\frac{2052}{10141}, \frac{2508}{10141}, \frac{1425}{10141}, -\frac{855}{10141}, \frac{741}{10141}, \frac{342}{10141})$ $+ \frac{228}{10141}\sqrt{339}e^3 \otimes e_4 + \frac{5016}{10141}e^2 \otimes e_9 + \frac{57}{10141}\sqrt{5134}e^5 \otimes e_8$	{23678, 4579}
942:316	$0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1066}e^{12}, \frac{1}{72}\sqrt{1230}e^{34}, \frac{1}{72}\sqrt{1230}e^{16},$ $\frac{1}{72}\sqrt{205}e^{25} + \frac{1}{36}\sqrt{82}e^{37}$	$(-\frac{37}{144}, \frac{13}{36}, -\frac{19}{144}, \frac{5}{12}, -\frac{5}{24}, \frac{5}{48}, \frac{41}{144}, -\frac{11}{72}, \frac{11}{72})$ $+ \frac{1}{24}\sqrt{246}e^2 \otimes e_5 + \frac{1}{72}\sqrt{2911}e^4 \otimes e_8$	{12378, 128, 23678, 268}
942:316	$0, 0, 0, 0, 0, \frac{8}{377}\sqrt{651}e^{12}, \frac{4}{377}\sqrt{465}e^{34}, \frac{4}{377}\sqrt{465}e^{16},$ $\frac{4}{377}\sqrt{1271}e^{25} + \frac{8}{377}\sqrt{651}e^{37}$	$(-\frac{54}{377}, \frac{168}{377}, \frac{112}{377}, -\frac{136}{377}, -\frac{80}{377}, \frac{114}{377}, -\frac{24}{377}, \frac{60}{377}, \frac{88}{377})$ $+ \frac{4}{377}\sqrt{5146}e^2 \otimes e_5 + \frac{4}{377}\sqrt{5146}e^3 \otimes e_4$	{12378, 13567, 23678, 357}
942:316	$0, 0, 0, 0, 0, \frac{8}{309}\sqrt{1351}e^{12}, \frac{4}{309}\sqrt{965}e^{34}, \frac{4}{309}\sqrt{965}e^{16},$ $\frac{4}{103}\sqrt{579}e^{25} + \frac{4}{309}\sqrt{5597}e^{37}$	$(-\frac{24}{103}, \frac{224}{309}, \frac{11}{309}, \frac{40}{309}, -\frac{54}{103}, \frac{152}{309}, \frac{17}{309}, \frac{80}{309}, \frac{62}{309})$ $+ \frac{2}{309}\sqrt{48057}e^2 \otimes e_5$	{12378, 128, 13567, 156, 23678, 268, 357, 5}
942:316	$0, 0, 0, 0, 0, \frac{2}{279}\sqrt{2537}e^{12}, \frac{4}{279}\sqrt{129}e^{34}, \frac{16}{279}\sqrt{43}e^{16},$ $\frac{2}{279}\sqrt{645}e^{25} + \frac{4}{279}\sqrt{946}e^{37}$	$(\frac{23}{93}, -\frac{38}{279}, \frac{23}{279}, -\frac{7}{31}, \frac{7}{93}, \frac{1}{9}, -\frac{40}{279}, \frac{100}{279}, -\frac{17}{279})$ $+ \frac{2}{279}\sqrt{3741}e^3 \otimes e_4 + \frac{4}{279}\sqrt{1677}e^1 \otimes e_9$	{123578, 1367, 246789, 4579}
942:316	$0, 0, 0, 0, 0, \frac{32}{5811}\sqrt{330}e^{12}, \frac{8}{5811}\sqrt{5385}e^{34}, \frac{8}{5811}\sqrt{9685}e^{16},$ $\frac{40}{5811}\sqrt{21}e^{25} + \frac{8}{5811}\sqrt{9510}e^{37}$	$(\frac{280}{5811}, -\frac{12}{149}, \frac{84}{1937}, -\frac{128}{1937}, \frac{196}{1937}, -\frac{188}{5811}, -\frac{44}{1937}, \frac{92}{5811}, \frac{40}{1937})$ $+ \frac{80}{5811}\sqrt{129}e^1 \otimes e_9 + \frac{8}{1937}\sqrt{1410}e^3 \otimes e_8$	{1258, 1367, 246789, 3459}
942:316	$0, 0, 0, 0, 0, \frac{19}{1377}\sqrt{167}e^{12}, \frac{19}{918}\sqrt{21}e^{34}, \frac{19}{1377}\sqrt{1558}e^{16},$ $\frac{19}{1377}\sqrt{255}e^{25} + \frac{19}{2754}\sqrt{946}e^{37}$	$(\frac{133}{918}, \frac{1121}{5508}, \frac{133}{2754}, -\frac{38}{459}, \frac{133}{612}, -\frac{19}{324}, -\frac{95}{2754}, \frac{475}{5508}, \frac{19}{1377})$ $+ \frac{19}{2754}\sqrt{834}e^3 \otimes e_4 + \frac{19}{918}\sqrt{273}e^1 \otimes e_9 + \frac{95}{2754}\sqrt{66}e^5 \otimes e_8$	{246789, 4579}
942:316	$0, 0, 0, 0, 0, \frac{2}{465}\sqrt{2337}e^{12}, \frac{2}{155}\sqrt{82}e^{34}, \frac{2}{465}\sqrt{6355}e^{16},$ $\frac{2}{155}\sqrt{533}e^{25} + \frac{2}{465}\sqrt{2337}e^{37}$	$(\frac{76}{465}, -\frac{8}{31}, -\frac{7}{155}, \frac{12}{155}, \frac{38}{155}, -\frac{44}{465}, \frac{1}{31}, \frac{32}{465}, -\frac{2}{155})$ $+ \frac{2}{155}\sqrt{1066}e^1 \otimes e_9 + \frac{2}{465}\sqrt{7257}e^5 \otimes e_8$	{234689, 246789, 3459, 4579}
942:316	$0, 0, 0, 0, 0, \frac{2}{309}\sqrt{5597}e^{12}, \frac{4}{309}\sqrt{965}e^{34}, \frac{4}{309}\sqrt{965}e^{16},$ $\frac{2}{103}\sqrt{579}e^{25} + \frac{8}{309}\sqrt{1351}e^{37}$	$(\frac{11}{309}, \frac{58}{309}, \frac{59}{103}, -\frac{209}{309}, \frac{29}{103}, \frac{23}{103}, -\frac{32}{309}, \frac{80}{309}, \frac{145}{309})$ $+ \frac{2}{309}\sqrt{48057}e^3 \otimes e_4$	{12378, 1245789, 13567, 14679, 23678, 2456789, 357, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:316	$0, 0, 0, 0, 0, \frac{4}{279}\sqrt{946e^{12}}, \frac{4}{279}\sqrt{129e^{34}}, \frac{16}{279}\sqrt{43e^{16}},$ $\frac{2}{279}\sqrt{645e^{25}} + \frac{2}{279}\sqrt{2537e^{37}}$	$(\frac{40}{279}, \frac{20}{279}, -\frac{35}{279}, \frac{8}{93}, -\frac{22}{93}, \frac{20}{93}, -\frac{11}{279}, \frac{100}{279}, -\frac{46}{279})$ $+ \frac{2}{279}\sqrt{3741e^2} \otimes e_5 + \frac{4}{279}\sqrt{1677e^1} \otimes e_9$	{234689, 246789, 3459, 4579}
942:316	$0, 0, 0, 0, 0, \frac{4}{4455}\sqrt{29842e^{12}}, \frac{4}{1485}\sqrt{7287e^{34}}, \frac{4}{4455}\sqrt{328609e^{16}},$ $\frac{4}{891}\sqrt{11451e^{25}} + \frac{4}{4455}\sqrt{39211e^{37}}$	$(-\frac{98}{1485}, -\frac{172}{4455}, \frac{28}{81}, -\frac{412}{1485}, \frac{224}{495}, -\frac{466}{4455}, \frac{304}{4455}, -\frac{152}{891}, \frac{1844}{4455})$ $+ \frac{4}{4455}\sqrt{560058e^3} \otimes e_4 + \frac{4}{4455}\sqrt{789078e^5} \otimes e_8$	{123567, 1378, 2357, 3678}
942:316	$0, 0, 0, 0, 0, \frac{2}{309}\sqrt{3045e^{12}}, \frac{2}{103}\sqrt{290e^{34}}, \frac{2}{309}\sqrt{14935e^{16}},$ $\frac{2}{103}\sqrt{1885e^{25}} + \frac{2}{309}\sqrt{3045e^{37}}$	$(-\frac{28}{309}, -\frac{14}{103}, \frac{19}{103}, \frac{12}{103}, \frac{64}{103}, -\frac{70}{309}, \frac{31}{103}, -\frac{98}{309}, \frac{50}{103})$ $+ \frac{10}{309}\sqrt{1479e^5} \otimes e_8$	{123456, 124567, 1348, 1478, 2345, 2457, 3468, 4678}
942:316	$0, 0, 0, 0, 0, \frac{32}{317}\sqrt{14e^{12}}, \frac{80}{317}\sqrt{3e^{34}}, \frac{80}{317}\sqrt{3e^{16}},$ $\frac{16}{317}\sqrt{33e^{25}} + \frac{16}{317}\sqrt{86e^{37}}$	$(-\frac{88}{317}, \frac{112}{317}, \frac{64}{317}, -\frac{32}{317}, -\frac{16}{317}, \frac{24}{317}, \frac{32}{317}, -\frac{64}{317}, \frac{96}{317})$ $+ \frac{16}{317}\sqrt{182e^3} \otimes e_8 + \frac{32}{317}\sqrt{23e^2} \otimes e_5$	{128, 13567, 268, 357}
942:316	$0, 0, 0, 0, 0, \frac{1}{42}\sqrt{582e^{12}}, \frac{1}{168}\sqrt{2037e^{34}}, \frac{1}{42}\sqrt{679e^{16}},$ $\frac{1}{42}\sqrt{291e^{25}} + \frac{1}{42}\sqrt{582e^{37}}$	$(\frac{8}{21}, -\frac{27}{112}, -\frac{9}{56}, \frac{1}{8}, \frac{5}{112}, \frac{47}{336}, -\frac{1}{28}, \frac{25}{48}, -\frac{11}{56})$ $+ \frac{1}{168}\sqrt{26481e^1} \otimes e_9$	{123578, 1258, 1367, 16, 234689, 246789, 3459, 4579}
942:316	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{30e^{12}}, \frac{2}{33}\sqrt{110e^{34}}, \frac{2}{33}\sqrt{110e^{16}},$ $\frac{2}{33}\sqrt{30e^{25}} + \frac{2}{33}\sqrt{30e^{37}}$	$(-\frac{8}{33}, \frac{2}{11}, \frac{10}{33}, -\frac{5}{33}, \frac{3}{11}, -\frac{2}{33}, \frac{5}{33}, -\frac{10}{33}, \frac{5}{11})$ $+ \frac{2}{11}\sqrt{30e^3} \otimes e_8$	{1245789, 128, 13469, 13567, 2456789, 268, 349, 357}
942:316	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{34e^{12}}, \frac{1}{9}\sqrt{51e^{34}}, \frac{1}{9}\sqrt{51e^{16}},$ $\frac{1}{18}\sqrt{17e^{25}} + \frac{1}{18}\sqrt{34e^{37}}$	$(-\frac{7}{36}, \frac{1}{9}, -\frac{7}{36}, \frac{2}{3}, \frac{1}{6}, -\frac{1}{12}, \frac{17}{36}, -\frac{5}{18}, \frac{5}{18})$ $+ \frac{1}{18}\sqrt{493e^4} \otimes e_8$	{123578, 1258, 134569, 145679, 235678, 2568, 3459, 4579}
942:316	$0, 0, 0, 0, 0, \frac{4}{603}\sqrt{1870e^{12}}, \frac{4}{201}\sqrt{187e^{34}}, \frac{4}{603}\sqrt{3417e^{16}},$ $\frac{4}{603}\sqrt{935e^{25}} + \frac{4}{603}\sqrt{1870e^{37}}$	$(\frac{74}{603}, -\frac{86}{603}, -\frac{130}{603}, \frac{22}{67}, \frac{8}{201}, -\frac{4}{201}, \frac{68}{603}, \frac{62}{603}, -\frac{62}{603})$ $+ \frac{4}{603}\sqrt{3706e^4} \otimes e_8 + \frac{4}{201}\sqrt{2e^1} \otimes e_9$	{123578, 1258, 3459, 4579}
942:317	$0, 0, 0, 0, 0, \frac{14}{307}\sqrt{10e^{12}}, \frac{7}{307}\sqrt{290e^{34}}, \frac{7}{921}\sqrt{3070e^{16}},$ $\frac{14}{921}\sqrt{345e^{35}} + \frac{7}{307}\sqrt{290e^{47}}$	$(\frac{41}{921}, -\frac{68}{307}, -\frac{5}{307}, \frac{41}{307}, \frac{82}{307}, -\frac{163}{921}, \frac{36}{307}, -\frac{122}{921}, \frac{77}{307})$ $+ \frac{14}{921}\sqrt{690e^1} \otimes e_2 + \frac{7}{921}\sqrt{5370e^4} \otimes e_8$	{134569, 14567, 2356789, 2568}
942:317	$0, 0, 0, 0, 0, \frac{2}{1875}\sqrt{49738e^{12}}, \frac{4}{5625}\sqrt{549031e^{34}}, \frac{2}{5625}\sqrt{2000998e^{16}},$ $\frac{2}{5625}\sqrt{487815e^{35}} + \frac{2}{5625}\sqrt{610247e^{47}}$	$(\frac{1858}{5625}, -\frac{656}{1875}, \frac{2296}{5625}, -\frac{17}{125}, -\frac{34}{125}, -\frac{22}{1125}, \frac{1531}{5625}, \frac{1748}{5625}, \frac{766}{5625})$ $+ \frac{2}{5625}\sqrt{4757631e^3} \otimes e_5 + \frac{4}{5625}\sqrt{1165017e^1} \otimes e_2$	{14567, 156, 245678, 2568}
942:317	$0, 0, 0, 0, 0, \frac{1}{687}\sqrt{15105e^{12}}, \frac{1}{687}\sqrt{5565e^{34}}, \frac{1}{687}\sqrt{24274e^{16}},$ $\frac{1}{229}\sqrt{2173e^{35}} + \frac{3}{229}\sqrt{106e^{47}}$	$(\frac{56}{687}, -\frac{20}{229}, \frac{35}{229}, -\frac{17}{229}, -\frac{34}{229}, -\frac{4}{687}, \frac{18}{229}, \frac{52}{687}, \frac{1}{229})$ $+ \frac{1}{687}\sqrt{27507e^3} \otimes e_8 + \frac{1}{687}\sqrt{36570e^1} \otimes e_9$	{12478, 128, 349, 379}
942:317	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{371e^{12}}, \frac{1}{162}\sqrt{1219e^{34}}, \frac{1}{324}\sqrt{12190e^{16}},$ $\frac{1}{324}\sqrt{22578e^{35}} + \frac{1}{324}\sqrt{5830e^{47}}$	$(-\frac{83}{324}, \frac{7}{18}, -\frac{23}{162}, \frac{11}{108}, \frac{11}{54}, \frac{43}{324}, -\frac{13}{324}, -\frac{10}{81}, \frac{5}{81})$ $+ \frac{1}{324}\sqrt{32118e^2} \otimes e_9 + \frac{1}{54}\sqrt{795e^5} \otimes e_8$	{14569, 15679, 459, 579}
942:317	$0, 0, 0, 0, 0, \frac{1}{669}\sqrt{139598e^{12}}, \frac{2}{223}\sqrt{313e^{34}}, \frac{1}{669}\sqrt{139598e^{16}},$ $\frac{2}{669}\sqrt{27231e^{35}} + \frac{1}{669}\sqrt{103290e^{47}}$	$(\frac{1}{3}, -\frac{103}{669}, -\frac{12}{223}, -\frac{9}{223}, -\frac{18}{223}, \frac{40}{223}, -\frac{21}{223}, \frac{343}{669}, -\frac{30}{223})$ $+ \frac{1}{223}\sqrt{38186e^1} \otimes e_9$	{1234578, 12358, 134567, 1356, 245689, 256789, 459, 579}
942:317	$0, 0, 0, 0, 0, \frac{10}{513}\sqrt{210e^{12}}, \frac{5}{513}\sqrt{1130e^{34}}, \frac{5}{513}\sqrt{1090e^{16}},$ $\frac{10}{513}\sqrt{30e^{35}} + \frac{5}{513}\sqrt{70e^{47}}$	$(-\frac{127}{513}, \frac{56}{171}, -\frac{35}{513}, \frac{13}{171}, \frac{26}{171}, \frac{41}{513}, \frac{4}{513}, -\frac{86}{513}, \frac{43}{513})$ $+ \frac{10}{513}\sqrt{465e^2} \otimes e_9 + \frac{5}{171}\sqrt{290e^4} \otimes e_8$	{1258, 134569, 2568, 3459}
942:317	$0, 0, 0, 0, 0, \frac{8}{101}\sqrt{19e^{12}}, \frac{8}{101}\sqrt{10e^{34}}, \frac{8}{101}\sqrt{19e^{16}},$ $\frac{24}{101}\sqrt{3e^{35}} + \frac{8}{101}\sqrt{10e^{47}}$	$(-\frac{25}{101}, \frac{38}{101}, \frac{20}{101}, -\frac{7}{101}, -\frac{14}{101}, \frac{13}{101}, \frac{13}{101}, -\frac{12}{101}, \frac{6}{101})$ $+ \frac{16}{101}\sqrt{11e^2} \otimes e_9 - \frac{16}{101}\sqrt{11e^3} \otimes e_8$	{12478, 128, 13469, 13679, 24678, 268, 349, 379}
942:317	$0, 0, 0, 0, 0, \frac{8}{101}\sqrt{19e^{12}}, \frac{8}{101}\sqrt{10e^{34}}, \frac{8}{101}\sqrt{19e^{16}},$ $\frac{24}{101}\sqrt{3e^{35}} + \frac{8}{101}\sqrt{10e^{47}}$	$(-\frac{25}{101}, \frac{38}{101}, \frac{20}{101}, -\frac{7}{101}, -\frac{14}{101}, \frac{13}{101}, \frac{13}{101}, -\frac{12}{101}, \frac{6}{101})$ $+ \frac{16}{101}\sqrt{11e^2} \otimes e_9 + \frac{16}{101}\sqrt{11e^3} \otimes e_8$	{12478, 128, 13469, 13679, 24678, 268, 349, 379}
942:317	$0, 0, 0, 0, 0, \frac{2}{627}\sqrt{16653e^{12}}, \frac{2}{209}\sqrt{1586e^{34}}, \frac{1}{627}\sqrt{331474e^{16}},$ $\frac{2}{209}\sqrt{793e^{35}} + \frac{2}{209}\sqrt{1586e^{47}}$	$(\frac{376}{627}, -\frac{139}{209}, \frac{24}{209}, \frac{18}{209}, \frac{36}{209}, -\frac{41}{627}, \frac{42}{209}, \frac{335}{627}, \frac{60}{209})$ $+ \frac{1}{627}\sqrt{794586e^1} \otimes e_2$	{13469, 13679, 1467, 16, 234689, 236789, 24678, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:317	$0, 0, 0, 0, 0, \frac{4}{309}\sqrt{965e^{12}}, \frac{8}{309}\sqrt{1351e^{34}}, \frac{4}{309}\sqrt{965e^{16}},$ $\frac{2}{103}\sqrt{579e^{35}} + \frac{2}{309}\sqrt{5597e^{47}}$	$(\frac{20}{309}, \frac{40}{309}, \frac{224}{309}, -\frac{27}{103}, -\frac{54}{103}, \frac{20}{103}, \frac{143}{309}, \frac{80}{309}, \frac{62}{309})$ $+ \frac{2}{309}\sqrt{48057e^3} \otimes e_5$	{124578, 1258, 14567, 156, 245678, 2568, 457, 5}
942:317	$0, 0, 0, 0, 0, \frac{1}{2853}\sqrt{138390e^{12}}, \frac{1}{2853}\sqrt{1495930e^{34}}, \frac{2}{2853}\sqrt{214834e^{16}},$ $\frac{4}{2853}\sqrt{45471e^{35}} + \frac{2}{2853}\sqrt{275462e^{47}}$	$(-\frac{442}{2853}, \frac{70}{951}, \frac{629}{2853}, -\frac{5}{951}, -\frac{10}{951}, -\frac{232}{2853}, \frac{614}{2853}, -\frac{674}{2853}, \frac{599}{2853})$ $+ \frac{1}{2853}\sqrt{1182246e^3} \otimes e_5 + \frac{1}{2853}\sqrt{2162838e^4} \otimes e_8$	{1258, 14567, 2568, 457}
942:317	$0, 0, 0, 0, 0, \frac{2}{103}\sqrt{290e^{12}}, \frac{2}{309}\sqrt{3045e^{34}}, \frac{2}{309}\sqrt{14935e^{16}},$ $\frac{2}{103}\sqrt{1885e^{35}} + \frac{2}{309}\sqrt{3045e^{47}}$	$(-\frac{67}{309}, \frac{12}{103}, -\frac{14}{103}, \frac{32}{103}, \frac{64}{103}, -\frac{31}{309}, \frac{18}{103}, -\frac{98}{309}, \frac{50}{103})$ $+ \frac{10}{309}\sqrt{1479e^5} \otimes e_8$	{1234789, 12389, 1248, 1278, 2346789, 23689, 2468, 2678}
942:317	$0, 0, 0, 0, 0, \frac{2}{337}\sqrt{898e^{12}}, \frac{2}{1011}\sqrt{9429e^{34}}, \frac{1}{1011}\sqrt{302626e^{16}},$ $\frac{2}{337}\sqrt{5837e^{35}} + \frac{2}{1011}\sqrt{9429e^{47}}$	$(\frac{128}{1011}, -\frac{107}{337}, -\frac{28}{337}, \frac{64}{337}, \frac{128}{337}, -\frac{193}{1011}, \frac{36}{337}, -\frac{65}{1011}, \frac{100}{337})$ $+ \frac{1}{1011}\sqrt{352914e^1} \otimes e_2 + \frac{2}{1011}\sqrt{114495e^5} \otimes e_8$	{2346789, 23689, 2468, 2678}
942:317	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{674e^{12}}, \frac{1}{215}\sqrt{19546e^{34}}, \frac{1}{645}\sqrt{144910e^{16}},$ $\frac{2}{645}\sqrt{23253e^{35}} + \frac{1}{215}\sqrt{19546e^{47}}$	$(-\frac{143}{645}, \frac{24}{215}, -\frac{1}{43}, \frac{41}{215}, \frac{82}{215}, -\frac{71}{645}, \frac{36}{215}, -\frac{214}{645}, \frac{77}{215})$ $+ \frac{1}{645}\sqrt{361938e^4} \otimes e_8$	{1235789, 1258, 134569, 14567, 2356789, 2568, 3459, 457}
942:317	$0, 0, 0, 0, 0, \frac{8}{1351}\sqrt{5522e^{12}}, \frac{4}{1351}\sqrt{5522e^{34}}, \frac{8}{1351}\sqrt{5522e^{16}},$ $\frac{2}{1351}\sqrt{57981e^{35}} + \frac{10}{1351}\sqrt{2761e^{47}}$	$(\frac{352}{1351}, -\frac{152}{1351}, \frac{176}{1351}, -\frac{163}{1351}, \frac{326}{1351}, \frac{200}{1351}, \frac{13}{1351}, \frac{552}{1351}, -\frac{150}{1351})$ $+ \frac{2}{1351}\sqrt{74045e^3} \otimes e_5 + \frac{4}{1351}\sqrt{53714e^1} \otimes e_9$	{234689, 236789, 349, 379}
942:317	$0, 0, 0, 0, 0, \frac{16}{285}\sqrt{77e^{12}}, \frac{8}{285}\sqrt{154e^{34}}, \frac{2}{285}\sqrt{1001e^{16}},$ $\frac{4}{95}\sqrt{77e^{35}} + \frac{4}{285}\sqrt{1001e^{47}}$	$(-\frac{2}{15}, \frac{128}{285}, \frac{64}{285}, -\frac{3}{19}, -\frac{6}{19}, \frac{6}{19}, \frac{1}{15}, \frac{52}{285}, -\frac{26}{285})$ $+ \frac{2}{285}\sqrt{7161e^3} \otimes e_5 + \frac{2}{95}\sqrt{1309e^2} \otimes e_9$	{13469, 13679, 349, 379}
942:317	$0, 0, 0, 0, 0, \frac{2}{967}\sqrt{7718e^{12}}, \frac{1}{967}\sqrt{10442e^{34}}, \frac{1}{2901}\sqrt{439018e^{16}},$ $\frac{4}{967}\sqrt{2951e^{35}} + \frac{10}{2901}\sqrt{1362e^{47}}$	$(\frac{257}{2901}, -\frac{99}{967}, -\frac{138}{967}, \frac{74}{967}, \frac{148}{967}, -\frac{40}{2901}, -\frac{64}{2901}, \frac{217}{967}, \frac{10}{967})$ $+ \frac{13}{967}\sqrt{454e^1} \otimes e_9 + \frac{1}{2901}\sqrt{483510e^5} \otimes e_8$	{134567, 1356, 459, 579}
942:317	$0, 0, 0, 0, 0, \frac{20}{1583}\sqrt{65e^{12}}, \frac{2}{1583}\sqrt{6045e^{34}}, \frac{2}{4749}\sqrt{102895e^{16}},$ $\frac{10}{4749}\sqrt{273e^{35}} + \frac{4}{1583}\sqrt{2795e^{47}}$	$(\frac{217}{4749}, -\frac{111}{1583}, \frac{125}{1583}, \frac{77}{1583}, \frac{154}{1583}, -\frac{116}{4749}, \frac{48}{1583}, \frac{101}{4749}, \frac{29}{1583})$ $+ \frac{2}{1583}\sqrt{15405e^1} \otimes e_9 + \frac{2}{4749}\sqrt{133185e^4} \otimes e_8$	{128, 1467, 236789, 349}
942:317	$0, 0, 0, 0, 0, \frac{8}{81}\sqrt{10e^{12}}, \frac{16}{81}\sqrt{10e^{34}}, \frac{8}{27}\sqrt{6e^{16}},$ $\frac{8}{81}\sqrt{42e^{35}} + \frac{16}{81}e^{47}$	$(-\frac{17}{81}, \frac{10}{81}, \frac{40}{81}, -\frac{1}{27}, -\frac{2}{27}, -\frac{7}{81}, \frac{37}{81}, -\frac{8}{27}, \frac{34}{81})$ $+ \frac{16}{81}\sqrt{33e^3} \otimes e_8$	{1245789, 12589, 13456, 13567, 2456789, 25689, 345, 357}
942:317	$0, 0, 0, 0, 0, \frac{2}{759}\sqrt{4395e^{12}}, \frac{4}{759}\sqrt{4395e^{34}}, \frac{1}{759}\sqrt{148258e^{16}},$ $\frac{2}{253}\sqrt{2051e^{35}} + \frac{2}{759}\sqrt{1758e^{47}}$	$(\frac{80}{759}, -\frac{71}{253}, \frac{80}{253}, -\frac{6}{253}, -\frac{12}{253}, -\frac{133}{759}, \frac{74}{253}, -\frac{53}{759}, \frac{68}{253})$ $+ \frac{1}{759}\sqrt{159978e^1} \otimes e_2 + \frac{2}{253}\sqrt{6446e^3} \otimes e_8$	{13456, 13567, 2456789, 25689}
942:317	$0, 0, 0, 0, 0, \frac{8}{27}\sqrt{6e^{12}}, \frac{16}{81}e^{34}, \frac{8}{81}\sqrt{10e^{16}},$ $\frac{8}{81}\sqrt{42e^{35}} + \frac{16}{81}\sqrt{10e^{47}}$	$(-\frac{17}{81}, \frac{2}{3}, -\frac{4}{81}, -\frac{1}{27}, -\frac{2}{27}, \frac{37}{81}, -\frac{7}{81}, \frac{20}{81}, -\frac{10}{81})$ $+ \frac{16}{81}\sqrt{33e^2} \otimes e_9$	{1234578, 12358, 14569, 15679, 2345678, 23568, 459, 579}
942:318	$0, 0, 0, 0, 0, \frac{1}{639}\sqrt{252618e^{12}}, \frac{4}{639}\sqrt{2965e^{34}}, \frac{4}{639}\sqrt{17197e^{16}},$ $\frac{1}{639}\sqrt{67602e^{26}} + \frac{1}{639}\sqrt{69974e^{37}}$	$(\frac{194}{639}, -\frac{4}{71}, \frac{7}{213}, \frac{80}{639}, -\frac{133}{213}, \frac{158}{639}, \frac{101}{639}, \frac{352}{639}, \frac{122}{639})$ $+ \frac{1}{639}\sqrt{615534e^1} \otimes e_5$	{12378, 128, 1367, 16, 2345689, 2456789, 3459, 4579}
942:318	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{965e^{12}}, \frac{4}{309}\sqrt{965e^{34}}, \frac{8}{309}\sqrt{1351e^{16}},$ $\frac{2}{103}\sqrt{579e^{26}} + \frac{2}{309}\sqrt{5597e^{37}}$	$(-\frac{24}{103}, \frac{67}{309}, \frac{11}{309}, \frac{40}{309}, 1, -\frac{5}{309}, \frac{17}{103}, -\frac{77}{309}, \frac{62}{309})$ $+ \frac{2}{309}\sqrt{48057e^5} \otimes e_8$	{12378, 128, 13567, 156, 234689, 246789, 3459, 4579}
942:318	$0, 0, 0, 0, 0, \frac{2}{391}\sqrt{965e^{12}}, \frac{2}{1173}\sqrt{75463e^{34}}, \frac{2}{391}\sqrt{5597e^{16}},$ $\frac{2}{1173}\sqrt{24897e^{26}} + \frac{2}{391}\sqrt{5597e^{37}}$	$(-\frac{57}{391}, \frac{73}{391}, \frac{2}{1173}, \frac{263}{1173}, \frac{128}{391}, \frac{16}{391}, \frac{265}{1173}, -\frac{41}{391}, \frac{89}{391})$ $+ \frac{2}{1173}\sqrt{100167e^3} \otimes e_5 + \frac{2}{1173}\sqrt{100167e^4} \otimes e_8$	{12378, 1258, 349, 4579}
942:318	$0, 0, 0, 0, 0, \frac{4}{1989}\sqrt{50149e^{12}}, \frac{5}{1989}\sqrt{32010e^{34}}, \frac{4}{1989}\sqrt{37345e^{16}},$ $\frac{1}{1989}\sqrt{608190e^{26}} + \frac{1}{1989}\sqrt{14938e^{37}}$	$(-\frac{392}{1989}, \frac{467}{1989}, -\frac{8}{153}, \frac{250}{663}, -\frac{200}{663}, \frac{25}{663}, \frac{38}{117}, -\frac{317}{1989}, \frac{542}{1989})$ $+ \frac{1}{1989}\sqrt{1837374e^4} \otimes e_8 + \frac{8}{663}\sqrt{3201e^2} \otimes e_5$	{123789, 1289, 345, 457}
942:318	$0, 0, 0, 0, 0, \frac{2}{627}\sqrt{16653e^{12}}, \frac{1}{627}\sqrt{331474e^{34}}, \frac{2}{209}\sqrt{1586e^{16}},$ $\frac{2}{209}\sqrt{793e^{26}} + \frac{2}{209}\sqrt{1586e^{37}}$	$(\frac{16}{209}, \frac{2}{19}, -\frac{119}{627}, \frac{2}{3}, -\frac{125}{209}, \frac{2}{11}, \frac{299}{627}, \frac{54}{209}, \frac{60}{209})$ $+ \frac{1}{627}\sqrt{794586e^4} \otimes e_5$	{123489, 124789, 13469, 14679, 235678, 2568, 357, 5}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:318	$0, 0, 0, 0, 0, \frac{2}{1011}\sqrt{10355}e^{12}, \frac{2}{1011}\sqrt{10355}e^{34}, \frac{4}{1011}\sqrt{545}e^{16},$ $\frac{10}{337}\sqrt{109}e^{26} + \frac{1}{1011}\sqrt{334630}e^{37}$	$(\frac{68}{1011}, -\frac{14}{1011}, \frac{65}{337}, -\frac{350}{1011}, \frac{195}{337}, \frac{18}{337}, -\frac{155}{1011}, \frac{122}{1011}, \frac{40}{1011})$ $+ \frac{1}{1011}\sqrt{513390}e^5 \otimes e_9 + \frac{2}{1011}\sqrt{116085}e^3 \otimes e_4$	{124789, 14679, 235678, 357}
942:318	$0, 0, 0, 0, 0, \frac{1}{2637}\sqrt{369462}e^{12}, \frac{2}{2637}\sqrt{124483}e^{34}, \frac{2}{2637}\sqrt{230803}e^{16},$ $\frac{1}{2637}\sqrt{433254}e^{26} + \frac{5}{2637}\sqrt{25694}e^{37}$	$(-\frac{208}{2637}, \frac{124}{879}, \frac{133}{879}, -\frac{262}{2637}, -\frac{217}{879}, \frac{164}{2637}, \frac{137}{2637}, -\frac{44}{2637}, \frac{536}{2637})$ $+ \frac{1}{2637}\sqrt{842586}e^1 \otimes e_5 + \frac{2}{879}\sqrt{3411}e^3 \otimes e_8$	{128, 1367, 2456789, 3459}
942:318	$0, 0, 0, 0, 0, \frac{2}{1173}\sqrt{42074}e^{12}, \frac{2}{1173}\sqrt{42074}e^{34}, \frac{2}{1173}\sqrt{83762}e^{16},$ $\frac{2}{1173}\sqrt{24897}e^{26} + \frac{4}{1173}\sqrt{4246}e^{37}$	$(\frac{2}{1173}, \frac{2}{51}, -\frac{57}{391}, \frac{436}{1173}, -\frac{128}{391}, \frac{16}{391}, \frac{265}{1173}, \frac{50}{1173}, \frac{94}{1173})$ $+ \frac{2}{1173}\sqrt{100167}e^1 \otimes e_5 + \frac{2}{1173}\sqrt{100167}e^4 \otimes e_8$	{12378, 128, 3459, 4579}
942:318	$0, 0, 0, 0, 0, \frac{22}{895}\sqrt{191}e^{12}, \frac{4}{895}\sqrt{10505}e^{34}, \frac{2}{895}\sqrt{44121}e^{16},$ $\frac{2}{895}\sqrt{6303}e^{26} + \frac{2}{895}\sqrt{44121}e^{37}$	$(-\frac{224}{895}, \frac{55}{179}, \frac{209}{895}, -\frac{92}{895}, -\frac{107}{895}, \frac{51}{895}, \frac{117}{895}, -\frac{173}{895}, \frac{326}{895})$ $+ \frac{2}{895}\sqrt{44885}e^2 \otimes e_5 + \frac{4}{895}\sqrt{25403}e^3 \otimes e_8$	{128, 13567, 246789, 3459}
942:318	$0, 0, 0, 0, 0, \frac{4}{639}\sqrt{2965}e^{12}, \frac{1}{639}\sqrt{252618}e^{34}, \frac{1}{639}\sqrt{69974}e^{16},$ $\frac{1}{639}\sqrt{67602}e^{26} + \frac{4}{639}\sqrt{17197}e^{37}$	$(\frac{7}{213}, \frac{137}{639}, \frac{194}{639}, -\frac{31}{213}, -\frac{133}{213}, \frac{158}{639}, \frac{101}{639}, \frac{179}{639}, \frac{295}{639})$ $+ \frac{1}{639}\sqrt{615534}e^3 \otimes e_5$	{12378, 1258, 1367, 156, 234689, 2456789, 349, 4579}
942:318	$0, 0, 0, 0, 0, \frac{4}{4455}\sqrt{328609}e^{12}, \frac{4}{1485}\sqrt{7287}e^{34}, \frac{4}{4455}\sqrt{29842}e^{16},$ $\frac{4}{891}\sqrt{11451}e^{26} + \frac{8}{4455}\sqrt{39211}e^{37}$	$(-\frac{98}{1485}, \frac{1069}{4455}, \frac{28}{81}, -\frac{412}{1485}, -\frac{569}{1485}, \frac{155}{891}, \frac{304}{4455}, \frac{481}{4455}, \frac{1844}{4455})$ $+ \frac{4}{4455}\sqrt{560058}e^3 \otimes e_4 + \frac{4}{4455}\sqrt{789078}e^2 \otimes e_5$	{12479, 1456789, 2367, 3578}
942:318	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{674}e^{12}, \frac{1}{645}\sqrt{144910}e^{34}, \frac{1}{215}\sqrt{19546}e^{16},$ $\frac{2}{645}\sqrt{23253}e^{26} + \frac{1}{215}\sqrt{19546}e^{37}$	$(-\frac{63}{215}, \frac{14}{43}, \frac{169}{645}, -\frac{107}{645}, \frac{36}{215}, \frac{62}{215}, \frac{62}{645}, -\frac{56}{215}, \frac{77}{215})$ $+ \frac{1}{645}\sqrt{361938}e^3 \otimes e_8$	{1258, 128, 13567, 1367, 2456789, 246789, 3459, 349}
942:318	$0, 0, 0, 0, 0, \frac{2}{309}\sqrt{14935}e^{12}, \frac{2}{103}\sqrt{290}e^{34}, \frac{2}{309}\sqrt{3045}e^{16},$ $\frac{2}{103}\sqrt{1885}e^{26} + \frac{2}{309}\sqrt{3045}e^{37}$	$(-\frac{28}{309}, \frac{89}{309}, \frac{19}{103}, \frac{12}{103}, -\frac{67}{103}, \frac{61}{309}, \frac{31}{103}, \frac{11}{103}, \frac{50}{103})$ $+ \frac{10}{309}\sqrt{1479}e^2 \otimes e_5$	{12379, 129, 1356789, 15689, 2346, 2467, 3458, 4578}
942:318	$0, 0, 0, 0, 0, \frac{14}{307}\sqrt{10}e^{12}, \frac{7}{921}\sqrt{3070}e^{34}, \frac{7}{307}\sqrt{290}e^{16},$ $\frac{14}{921}\sqrt{345}e^{26} + \frac{7}{307}\sqrt{290}e^{37}$	$(-\frac{63}{307}, \frac{70}{307}, \frac{77}{921}, \frac{77}{921}, -\frac{56}{307}, \frac{7}{307}, \frac{154}{921}, -\frac{56}{307}, \frac{77}{307})$ $+ \frac{14}{921}\sqrt{690}e^4 \otimes e_5 + \frac{7}{921}\sqrt{5370}e^3 \otimes e_8$	{1258, 13567, 246789, 349}
942:318	$0, 0, 0, 0, 0, \frac{1}{2613}\sqrt{1555430}e^{12}, \frac{2}{2613}\sqrt{78485}e^{34}, \frac{2}{2613}\sqrt{455213}e^{16},$ $\frac{1}{871}\sqrt{88474}e^{26} + \frac{23}{2613}\sqrt{2854}e^{37}$	$(\frac{452}{2613}, \frac{64}{2613}, \frac{223}{871}, -\frac{758}{2613}, -\frac{25}{67}, \frac{172}{871}, -\frac{89}{2613}, \frac{968}{2613}, \frac{580}{2613})$ $+ \frac{1}{871}\sqrt{413830}e^1 \otimes e_5 + \frac{2}{2613}\sqrt{697803}e^3 \otimes e_4$	{12378, 1367, 2456789, 4579}
942:318	$0, 0, 0, 0, 0, \frac{4}{1777}\sqrt{1605}e^{12}, \frac{40}{1777}\sqrt{17}e^{34}, \frac{16}{1777}\sqrt{195}e^{16},$ $\frac{4}{1777}\sqrt{19}e^{26} + \frac{16}{1777}\sqrt{195}e^{37}$	$(\frac{18}{1777}, -\frac{20}{1777}, \frac{56}{1777}, -\frac{134}{1777}, \frac{206}{1777}, -\frac{2}{1777}, -\frac{78}{1777}, \frac{16}{1777}, -\frac{22}{1777})$ $+ \frac{4}{1777}\sqrt{3785}e^1 \otimes e_9 + \frac{4}{1777}\sqrt{4070}e^3 \otimes e_8$	{1258, 128, 13567, 1367, 2456789, 246789, 3459, 349}
942:318	$0, 0, 0, 0, 0, \frac{4}{1777}\sqrt{1605}e^{12}, \frac{40}{1777}\sqrt{17}e^{34}, \frac{16}{1777}\sqrt{195}e^{16},$ $\frac{4}{1777}\sqrt{19}e^{26} + \frac{16}{1777}\sqrt{195}e^{37}$	$(\frac{18}{1777}, -\frac{20}{1777}, \frac{56}{1777}, -\frac{134}{1777}, \frac{206}{1777}, -\frac{2}{1777}, -\frac{78}{1777}, \frac{16}{1777}, -\frac{22}{1777})$ $- \frac{4}{1777}\sqrt{3785}e^1 \otimes e_9 + \frac{4}{1777}\sqrt{4070}e^3 \otimes e_8$	{1258, 128, 13567, 1367, 2456789, 246789, 3459, 349}
942:318	$0, 0, 0, 0, 0, \frac{8}{2295}\sqrt{2121}e^{12}, \frac{1}{2295}\sqrt{756490}e^{34}, \frac{7}{2295}\sqrt{16766}e^{16},$ $\frac{2}{2295}\sqrt{48783}e^{26} + \frac{1}{2295}\sqrt{1146754}e^{37}$	$(-\frac{389}{2295}, \frac{22}{153}, \frac{259}{2295}, -\frac{247}{2295}, \frac{326}{765}, -\frac{59}{2295}, \frac{4}{765}, -\frac{448}{2295}, \frac{271}{2295})$ $+ \frac{1}{2295}\sqrt{1862238}e^3 \otimes e_8 + \frac{2}{2295}\sqrt{243915}e^5 \otimes e_9$	{1258, 13567, 246789, 349}
942:318	$0, 0, 0, 0, 0, \frac{4}{627}\sqrt{3485}e^{12}, \frac{4}{627}\sqrt{3485}e^{34}, \frac{2}{627}\sqrt{4879}e^{16},$ $\frac{4}{209}\sqrt{697}e^{26} + \frac{1}{627}\sqrt{216070}e^{37}$	$(\frac{94}{627}, -\frac{82}{627}, -\frac{25}{209}, \frac{80}{627}, 1, \frac{4}{209}, \frac{5}{627}, \frac{106}{627}, -\frac{70}{627})$ $+ \frac{13}{627}\sqrt{4182}e^5 \otimes e_9$	{12349, 12479, 134689, 146789, 23567, 256, 3578, 58}
942:318	$0, 0, 0, 0, 0, \frac{4}{309}\sqrt{965}e^{12}, \frac{4}{309}\sqrt{965}e^{34}, \frac{2}{309}\sqrt{5597}e^{16},$ $\frac{2}{103}\sqrt{579}e^{26} + \frac{8}{309}\sqrt{1351}e^{37}$	$(\frac{11}{309}, \frac{67}{309}, \frac{59}{103}, -\frac{209}{309}, \frac{20}{103}, \frac{26}{309}, -\frac{32}{309}, \frac{89}{309}, \frac{145}{309})$ $+ \frac{2}{309}\sqrt{48057}e^3 \otimes e_4$	{123578, 12378, 13567, 1367, 2456789, 246789, 4579, 479}
942:318	$0, 0, 0, 0, 0, \frac{2}{4569}\sqrt{264245}e^{12}, \frac{8}{4569}\sqrt{74762}e^{34}, \frac{16}{4569}\sqrt{16757}e^{16},$ $\frac{8}{1523}\sqrt{2578}e^{26} + \frac{16}{4569}\sqrt{14179}e^{37}$	$(-\frac{422}{4569}, \frac{122}{4569}, -\frac{339}{1523}, \frac{1856}{4569}, \frac{800}{1523}, -\frac{100}{1523}, \frac{839}{4569}, -\frac{722}{4569}, -\frac{178}{4569})$ $+ \frac{2}{1523}\sqrt{310649}e^4 \otimes e_8 + \frac{2}{4569}\sqrt{2300865}e^5 \otimes e_9$	{13469, 14679, 235678, 2568}
942:318	$0, 0, 0, 0, 0, \frac{4}{639}\sqrt{2965}e^{12}, \frac{1}{639}\sqrt{252618}e^{34}, \frac{4}{639}\sqrt{17197}e^{16},$ $\frac{1}{639}\sqrt{67602}e^{26} + \frac{1}{639}\sqrt{69974}e^{37}$	$(-\frac{152}{639}, \frac{137}{639}, -\frac{152}{639}, \frac{2}{3}, \frac{40}{213}, -\frac{5}{213}, \frac{274}{639}, -\frac{167}{639}, \frac{122}{639})$ $+ \frac{1}{639}\sqrt{615534}e^4 \otimes e_8$	{123578, 12378, 1258, 128, 3459, 349, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:318	$0, 0, 0, 0, 0, \frac{4}{377}\sqrt{465}e^{12}, \frac{4}{377}\sqrt{465}e^{34}, \frac{8}{377}\sqrt{65}e^{16},$ $\frac{4}{377}\sqrt{127}e^{26} + \frac{8}{377}\sqrt{65}e^{37}$	$(-\frac{54}{377}, \frac{71}{377}, \frac{112}{377}, -\frac{136}{377}, \frac{211}{377}, \frac{17}{377}, -\frac{24}{377}, -\frac{37}{377}, \frac{88}{377})$ $+ \frac{4}{377}\sqrt{5146}e^3 \otimes e_4 + \frac{4}{377}\sqrt{5146}e^5 \otimes e_8$	{12378, 13567, 246789, 4579}
942:319	$0, 0, 0, 0, 0, \frac{33}{2821}\sqrt{893}e^{12}, \frac{33}{2821}\sqrt{223}e^{34},$ $\frac{66}{2821}\sqrt{22}e^{16} + \frac{33}{2821}\sqrt{937}e^{25}, \frac{66}{2821}e^{15} + \frac{33}{2821}\sqrt{1882}e^{37}$	$(-\frac{66}{2821}, \frac{891}{2821}, \frac{297}{2821}, -\frac{792}{2821}, -\frac{132}{2821}, \frac{825}{2821}, -\frac{495}{2821}, \frac{759}{2821}, -\frac{198}{2821})$ $+ \frac{33}{2821}\sqrt{2030}e^3 \otimes e_4 + \frac{99}{2821}\sqrt{327}e^2 \otimes e_9$	{1456789, 23567}
942:319	$0, 0, 0, 0, 0, \frac{6}{1219}\sqrt{9794}e^{12}, \frac{24}{1219}\sqrt{415}e^{34},$ $\frac{6}{1219}\sqrt{9794}e^{16} + \frac{6}{1219}\sqrt{4897}e^{25}, \frac{6}{1219}\sqrt{14359}e^{15} + \frac{24}{1219}\sqrt{2407}e^{37}$	$(\frac{177}{1219}, \frac{63}{1219}, \frac{675}{1219}, -\frac{819}{1219}, \frac{354}{1219}, \frac{240}{1219}, -\frac{144}{1219}, \frac{417}{1219}, \frac{531}{1219})$ $+ \frac{6}{1219}\sqrt{81257}e^3 \otimes e_4$	{12378, 1367, 246789, 479}
942:319	$0, 0, 0, 0, 0, \frac{1}{189}\sqrt{12118}e^{12}, \frac{1}{189}\sqrt{3358}e^{34},$ $\frac{2}{189}\sqrt{730}e^{16} + \frac{1}{189}\sqrt{13578}e^{25}, \frac{2}{63}\sqrt{146}e^{15} + \frac{2}{189}\sqrt{4161}e^{37}$	$(-\frac{5}{63}, \frac{101}{189}, -\frac{34}{189}, \frac{23}{189}, -\frac{10}{63}, \frac{86}{189}, -\frac{11}{189}, \frac{71}{189}, -\frac{5}{21})$ $+ \frac{1}{189}\sqrt{45114}e^2 \otimes e_9$	{12357, 125, 34589, 45789}
942:319	$0, 0, 0, 0, 0, \frac{2}{1911}\sqrt{27987}e^{12}, \frac{1}{273}\sqrt{12766}e^{34},$ $\frac{1}{1911}\sqrt{639282}e^{16} + \frac{2}{637}\sqrt{16203}e^{25}, \frac{2}{1911}\sqrt{156138}e^{15} + \frac{2}{1911}\sqrt{833718}e^{37}$	$(\frac{57}{637}, -\frac{136}{637}, \frac{425}{1911}, -\frac{337}{1911}, \frac{114}{637}, -\frac{79}{637}, \frac{88}{1911}, -\frac{22}{637}, \frac{171}{637})$ $+ \frac{1}{637}\sqrt{175778}e^3 \otimes e_8$	{128, 1367, 246789, 349}
942:319	$0, 0, 0, 0, 0, \frac{13}{541}\sqrt{118}e^{12}, \frac{52}{541}\sqrt{13}e^{34}, \frac{13}{541}\sqrt{127}e^{16} + \frac{39}{541}\sqrt{33}e^{25},$ $\frac{39}{541}\sqrt{6}e^{15} + \frac{13}{541}\sqrt{217}e^{37}$	$(-\frac{26}{541}, \frac{91}{541}, -\frac{143}{541}, \frac{208}{541}, -\frac{52}{541}, \frac{65}{541}, \frac{65}{541}, \frac{39}{541}, -\frac{78}{541})$ $+ \frac{13}{541}\sqrt{458}e^2 \otimes e_9 + \frac{13}{541}\sqrt{485}e^4 \otimes e_8$	{12378, 128, 349, 479}
942:319	$0, 0, 0, 0, 0, \frac{13}{541}\sqrt{118}e^{12}, \frac{52}{541}\sqrt{13}e^{34}, \frac{13}{541}\sqrt{127}e^{16} + \frac{39}{541}\sqrt{33}e^{25},$ $\frac{39}{541}\sqrt{6}e^{15} + \frac{13}{541}\sqrt{217}e^{37}$	$(-\frac{26}{541}, \frac{91}{541}, -\frac{143}{541}, \frac{208}{541}, -\frac{52}{541}, \frac{65}{541}, \frac{65}{541}, \frac{39}{541}, -\frac{78}{541})$ $+ \frac{13}{541}\sqrt{458}e^2 \otimes e_9 - \frac{13}{541}\sqrt{485}e^4 \otimes e_8$	{12378, 128, 349, 479}
942:319	$0, 0, 0, 0, 0, \frac{28}{2221}\sqrt{30}e^{12}, \frac{7}{2221}\sqrt{1010}e^{34},$ $\frac{21}{2221}\sqrt{94}e^{16} + \frac{28}{2221}\sqrt{82}e^{25}, \frac{14}{2221}\sqrt{205}e^{15} + \frac{7}{2221}\sqrt{1754}e^{37}$	$(\frac{7}{2221}, \frac{70}{2221}, \frac{133}{2221}, -\frac{245}{2221}, \frac{14}{2221}, \frac{77}{2221}, -\frac{112}{2221}, \frac{84}{2221}, \frac{21}{2221})$ $+ \frac{14}{2221}\sqrt{353}e^2 \otimes e_9 + \frac{7}{2221}\sqrt{2510}e^3 \otimes e_8$	{128, 349}
942:319	$0, 0, 0, 0, 0, \frac{2}{471}\sqrt{2046}e^{12}, \frac{1}{471}\sqrt{107074}e^{34},$ $\frac{1}{471}\sqrt{96162}e^{16} + \frac{1}{157}\sqrt{10230}e^{25}, \frac{1}{471}\sqrt{59334}e^{15} + \frac{1}{471}\sqrt{38874}e^{37}$	$(\frac{6}{157}, -\frac{21}{157}, -\frac{130}{471}, \frac{2}{3}, \frac{12}{157}, -\frac{15}{157}, \frac{184}{471}, -\frac{9}{157}, \frac{18}{157})$ $+ \frac{1}{157}\sqrt{29326}e^4 \otimes e_8$	{12378, 128, 349, 479}
942:320	$0, 0, 0, 0, 0, \frac{1}{381}\sqrt{13634}e^{12}, \frac{2}{381}\sqrt{9223}e^{34}, \frac{4}{381}\sqrt{5614}e^{16} + \frac{4}{127}\sqrt{40}e^{35},$ $\frac{1}{127}\sqrt{10426}e^{15} + \frac{1}{381}\sqrt{5614}e^{37}$	$(\frac{169}{381}, -\frac{232}{381}, \frac{85}{381}, \frac{20}{381}, \frac{7}{127}, -\frac{21}{127}, \frac{35}{127}, \frac{106}{381}, \frac{190}{381})$ $+ \frac{1}{127}\sqrt{28070}e^1 \otimes e_2$	{13578, 14789, 237, 24579}
942:320	$0, 0, 0, 0, 0, \frac{30}{1019}\sqrt{21}e^{12}, \frac{30}{1019}\sqrt{201}e^{34}, \frac{240}{1019}\sqrt{5}e^{16} + \frac{30}{1019}\sqrt{3}e^{35},$ $\frac{60}{1019}\sqrt{14}e^{15} + \frac{60}{1019}\sqrt{5}e^{37}$	$(\frac{135}{1019}, -\frac{315}{1019}, -\frac{105}{1019}, \frac{405}{1019}, \frac{60}{1019}, -\frac{180}{1019}, \frac{300}{1019}, -\frac{45}{1019}, \frac{195}{1019})$ $+ \frac{30}{1019}\sqrt{413}e^1 \otimes e_2 + \frac{30}{1019}\sqrt{487}e^4 \otimes e_8$	{14679, 23678}
942:320	$0, 0, 0, 0, 0, \frac{1}{6}e^{12}, \frac{1}{6}e^{34}, \frac{1}{6}\sqrt{7}e^{16} + \frac{1}{6}\sqrt{3}e^{35},$ $\frac{1}{6}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{7}e^{37}$	$(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, 0, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{21}e^1 \otimes e_2 + \frac{1}{6}\sqrt{21}e^3 \otimes e_4$	{13567, 14679, 2456789}
942:320	$0, 0, 0, 0, 0, \frac{1}{6}e^{12}, \frac{1}{6}e^{34}, \frac{1}{6}\sqrt{7}e^{16} + \frac{1}{6}\sqrt{3}e^{35},$ $\frac{1}{6}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{7}e^{37}$	$(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, 0, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{6}\sqrt{21}e^1 \otimes e_2 - \frac{1}{6}\sqrt{21}e^3 \otimes e_4$	{13567, 14679, 2456789}
942:320	$0, 0, 0, 0, 0, \frac{16}{459}\sqrt{394}e^{12}, \frac{2}{459}\sqrt{10441}e^{34},$ $\frac{4}{459}\sqrt{1379}e^{16} + \frac{10}{459}\sqrt{591}e^{35}, \frac{10}{459}\sqrt{591}e^{15} + \frac{2}{153}\sqrt{3349}e^{37}$	$(-\frac{49}{153}, \frac{331}{459}, -\frac{47}{459}, \frac{31}{459}, \frac{28}{459}, \frac{184}{153}, -\frac{16}{459}, \frac{37}{459}, -\frac{7}{51})$ $+ \frac{10}{459}\sqrt{2955}e^2 \otimes e_9$	{123578, 13469, 268, 4579}
942:321	$0, 0, 0, 0, 0, \frac{4}{141}\sqrt{78}e^{12}, \frac{4}{141}\sqrt{87}e^{34}, \frac{52}{141}e^{16} + \frac{8}{141}\sqrt{21}e^{35},$ $\frac{4}{141}\sqrt{67}e^{25} + \frac{4}{141}\sqrt{106}e^{37}$	$(\frac{6}{47}, -\frac{10}{47}, -\frac{6}{47}, \frac{10}{47}, \frac{8}{47}, -\frac{4}{47}, \frac{4}{47}, \frac{2}{47}, -\frac{2}{47})$ $+ \frac{4}{141}\sqrt{122}e^4 \otimes e_8 + \frac{4}{141}\sqrt{246}e^1 \otimes e_9$	{123578, 4579}
942:321	$0, 0, 0, 0, 0, \frac{8}{387}\sqrt{286}e^{12}, \frac{8}{387}\sqrt{1221}e^{34}, \frac{8}{387}\sqrt{1221}e^{16} + \frac{8}{129}\sqrt{66}e^{35},$ $\frac{8}{387}\sqrt{55}e^{25} + \frac{16}{387}\sqrt{22}e^{37}$	$(-\frac{64}{387}, \frac{52}{387}, -\frac{100}{387}, \frac{92}{129}, \frac{8}{129}, -\frac{4}{129}, \frac{176}{387}, -\frac{76}{387}, \frac{76}{387})$ $+ \frac{8}{387}\sqrt{3454}e^4 \otimes e_8$	{12378, 14679, 23678, 479}
942:321	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{70}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{4}{67}\sqrt{35}e^{16} + \frac{2}{67}\sqrt{805}e^{35},$ $\frac{2}{67}\sqrt{455}e^{25} + \frac{2}{67}\sqrt{665}e^{37}$	$(\frac{7}{67}, \frac{16}{67}, \frac{29}{67}, -\frac{41}{67}, \frac{1}{67}, \frac{23}{67}, -\frac{12}{67}, \frac{30}{67}, \frac{17}{67})$ $- \frac{28}{67}\sqrt{10}e^3 \otimes e_4$	{12359, 124, 13689, 14568, 23569, 246, 389, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:321	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{70}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{4}{67}\sqrt{35}e^{16} + \frac{2}{67}\sqrt{805}e^{35},$ $\frac{2}{67}\sqrt{455}e^{25} + \frac{2}{67}\sqrt{665}e^{37}$	$(\frac{7}{67}, \frac{16}{67}, \frac{29}{67}, -\frac{41}{67}, \frac{1}{67}, \frac{23}{67}, -\frac{12}{67}, \frac{30}{67}, \frac{17}{67})$ $+ \frac{28}{67}\sqrt{10}e^3 \otimes e_4$	{12359, 124, 13689, 14568, 23569, 246, 389, 458}
942:321	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{10}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{4}{37}\sqrt{15}e^{16} + \frac{2}{37}\sqrt{35}e^{35},$ $\frac{10}{37}e^{25} + \frac{2}{37}\sqrt{65}e^{37}$	$(\frac{9}{37}, -\frac{8}{37}, \frac{3}{37}, -\frac{7}{37}, \frac{7}{37}, \frac{1}{37}, -\frac{4}{37}, \frac{10}{37}, -\frac{1}{37})$ $+ \frac{4}{37}\sqrt{10}e^3 \otimes e_4 + \frac{4}{37}\sqrt{30}e^1 \otimes e_9$	{123578, 1367, 246789, 4579}
942:321	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{10}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{4}{37}\sqrt{15}e^{16} + \frac{2}{37}\sqrt{35}e^{35},$ $\frac{10}{37}e^{25} + \frac{2}{37}\sqrt{65}e^{37}$	$(\frac{9}{37}, -\frac{8}{37}, \frac{3}{37}, -\frac{7}{37}, \frac{7}{37}, \frac{1}{37}, -\frac{4}{37}, \frac{10}{37}, -\frac{1}{37})$ $- \frac{4}{37}\sqrt{10}e^3 \otimes e_4 + \frac{4}{37}\sqrt{30}e^1 \otimes e_9$	{123578, 1367, 246789, 4579}
942:321	$0, 0, 0, 0, 0, \frac{8}{891}\sqrt{2170}e^{12}, \frac{4}{891}\sqrt{6045}e^{34},$ $\frac{4}{891}\sqrt{15655}e^{16} + \frac{2}{891}\sqrt{49755}e^{35}, \frac{2}{891}\sqrt{33945}e^{25} + \frac{2}{891}\sqrt{51305}e^{37}$	$(\frac{263}{891}, -\frac{296}{891}, -\frac{19}{891}, -\frac{1}{99}, \frac{83}{297}, -\frac{1}{27}, -\frac{28}{891}, \frac{230}{891}, -\frac{47}{891})$ $+ \frac{124}{891}\sqrt{30}e^1 \otimes e_9$	{123578, 1367, 246789, 4579}
942:322	$0, 0, 0, 0, 0, -\frac{2}{293}\sqrt{214}e^{12}, \frac{2}{293}\sqrt{214}e^{34}, \frac{2}{293}\sqrt{14}e^{15} + \frac{2}{293}\sqrt{386}e^{26},$ $\frac{2}{293}\sqrt{14}e^{35} + \frac{2}{293}\sqrt{386}e^{47}$	$(-\frac{22}{293}, \frac{14}{293}, -\frac{22}{293}, \frac{14}{293}, \frac{28}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{293}\sqrt{129}e^2 \otimes e_9 + \frac{4}{293}\sqrt{129}e^4 \otimes e_8$	{128, 136789, 2467, 128, 136789, 2467}
942:322	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{214}e^{12}, \frac{2}{293}\sqrt{214}e^{34}, \frac{2}{293}\sqrt{14}e^{15} + \frac{2}{293}\sqrt{386}e^{26},$ $\frac{2}{293}\sqrt{14}e^{35} + \frac{2}{293}\sqrt{386}e^{47}$	$(-\frac{22}{293}, \frac{14}{293}, -\frac{22}{293}, \frac{14}{293}, \frac{28}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{293}\sqrt{129}e^2 \otimes e_9 + \frac{4}{293}\sqrt{129}e^4 \otimes e_8$	{128, 136789, 2467, 128, 136789, 2467}
942:322	$0, 0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{8}\sqrt{6}e^{15} + \frac{1}{4}e^{26},$ $\frac{1}{8}\sqrt{6}e^{35} + \frac{1}{4}e^{47}$	$(\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^1 \otimes e_9 + \frac{1}{8}\sqrt{14}e^3 \otimes e_8$	{12478, 128, 14678, 168, 12478, 128, 14678, 168}
942:322	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{8}\sqrt{6}e^{15} + \frac{1}{4}e^{26}, \frac{1}{8}\sqrt{6}e^{35} + \frac{1}{4}e^{47}$	$(\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^1 \otimes e_9 + \frac{1}{8}\sqrt{14}e^3 \otimes e_8$	{12478, 128, 14678, 168, 12478, 128, 14678, 168}
942:322	$0, 0, 0, 0, 0, -\frac{1}{8}e^{12}, \frac{1}{4}e^{34}, \frac{1}{8}\sqrt{6}e^{15} + \frac{1}{4}e^{26},$ $\frac{1}{8}\sqrt{6}e^{35} + \frac{1}{4}e^{47}$	$(\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^1 \otimes e_9 - \frac{1}{8}\sqrt{14}e^3 \otimes e_8$	{12478, 128, 14678, 168, 12478, 128, 14678, 168}
942:322	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{8}\sqrt{6}e^{15} + \frac{1}{4}e^{26}, \frac{1}{8}\sqrt{6}e^{35} + \frac{1}{4}e^{47}$	$(\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14}e^1 \otimes e_9 - \frac{1}{8}\sqrt{14}e^3 \otimes e_8$	{12478, 128, 14678, 168, 12478, 128, 14678, 168}
942:322	$0, 0, 0, 0, 0, -\frac{1}{149}\sqrt{3243}e^{12}, \frac{1}{149}\sqrt{713}e^{34}, \frac{5}{149}\sqrt{115}e^{15} + \frac{1}{149}\sqrt{3243}e^{26},$ $\frac{1}{149}\sqrt{3059}e^{35} + \frac{1}{149}\sqrt{1265}e^{47}$	$(\frac{12}{149}, \frac{8}{149}, -\frac{31}{149}, \frac{8}{149}, \frac{16}{149}, \frac{20}{149}, -\frac{23}{149}, \frac{28}{149}, -\frac{15}{149})$ $+ \frac{1}{149}\sqrt{5934}e^2 \otimes e_9$	{1234578, 12358, 145689, 156789, 234567, 2356, 459, 579, 1234578, 12358, 145689, 156789, 234567, 2356, 459, 579}
942:322	$0, 0, 0, 0, 0, \frac{1}{149}\sqrt{3243}e^{12}, \frac{1}{149}\sqrt{713}e^{34}, \frac{5}{149}\sqrt{115}e^{15} + \frac{1}{149}\sqrt{3243}e^{26},$ $\frac{1}{149}\sqrt{3059}e^{35} + \frac{1}{149}\sqrt{1265}e^{47}$	$(\frac{12}{149}, \frac{8}{149}, -\frac{31}{149}, \frac{8}{149}, \frac{16}{149}, \frac{20}{149}, -\frac{23}{149}, \frac{28}{149}, -\frac{15}{149})$ $+ \frac{1}{149}\sqrt{5934}e^2 \otimes e_9$	{1234578, 12358, 145689, 156789, 234567, 2356, 459, 579, 1234578, 12358, 145689, 156789, 234567, 2356, 459, 579}
942:323	$0, 0, 0, 0, 0, -\frac{2}{293}\sqrt{214}e^{12}, \frac{2}{293}\sqrt{214}e^{34}, \frac{2}{293}\sqrt{386}e^{16} + \frac{2}{293}\sqrt{14}e^{35},$ $\frac{2}{293}\sqrt{14}e^{25} + \frac{2}{293}\sqrt{386}e^{47}$	$(\frac{14}{293}, -\frac{22}{293}, -\frac{22}{293}, \frac{14}{293}, \frac{28}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{293}\sqrt{129}e^1 \otimes e_9 + \frac{4}{293}\sqrt{129}e^4 \otimes e_8$	{1258, 1467, 236789, 1258, 1467, 236789}
942:323	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{214}e^{12}, \frac{2}{293}\sqrt{214}e^{34}, \frac{2}{293}\sqrt{386}e^{16} + \frac{2}{293}\sqrt{14}e^{35},$ $\frac{2}{293}\sqrt{14}e^{25} + \frac{2}{293}\sqrt{386}e^{47}$	$(\frac{14}{293}, -\frac{22}{293}, -\frac{22}{293}, \frac{14}{293}, \frac{28}{293}, -\frac{8}{293}, -\frac{8}{293}, \frac{6}{293}, \frac{6}{293})$ $+ \frac{4}{293}\sqrt{129}e^1 \otimes e_9 + \frac{4}{293}\sqrt{129}e^4 \otimes e_8$	{1258, 1467, 236789, 1258, 1467, 236789}
942:326	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{493}e^{12}, \frac{2}{55}\sqrt{58}e^{34}, \frac{2}{55}\sqrt{58}e^{16} + \frac{2}{55}\sqrt{435}e^{23},$ $\frac{2}{55}\sqrt{319}e^{13} + \frac{2}{55}\sqrt{203}e^{47}$	$(\frac{2}{55}, \frac{23}{55}, \frac{4}{55}, \frac{1}{55}, -\frac{7}{11}, \frac{5}{11}, \frac{1}{11}, \frac{27}{55}, \frac{6}{55})$ $+ \frac{6}{55}\sqrt{145}e^2 \otimes e_5$	{12478, 128, 14567, 156}
942:326	$0, 0, 0, 0, 0, -\frac{1}{413}\sqrt{48922}e^{12}, \frac{4}{413}\sqrt{2807}e^{34},$ $\frac{1}{413}\sqrt{48922}e^{16} + \frac{3}{413}\sqrt{10426}e^{23}, \frac{16}{413}\sqrt{401}e^{13} + \frac{2}{413}\sqrt{4411}e^{47}$	$(\frac{8}{59}, \frac{6}{413}, \frac{16}{59}, \frac{4}{59}, -\frac{289}{413}, \frac{62}{413}, \frac{20}{59}, \frac{2}{7}, \frac{24}{59})$ $+ \frac{3}{413}\sqrt{31278}e^3 \otimes e_5$	{12456789, 125689, 14579, 159}
942:326	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{58}e^{12}, \frac{2}{55}\sqrt{58}e^{34}, \frac{2}{55}\sqrt{493}e^{16} + \frac{2}{55}\sqrt{435}e^{23},$ $\frac{2}{55}\sqrt{319}e^{13} + \frac{2}{55}\sqrt{203}e^{47}$	$(\frac{2}{55}, -\frac{7}{55}, \frac{4}{55}, \frac{1}{55}, 1, -\frac{1}{11}, \frac{1}{11}, -\frac{3}{55}, \frac{6}{55})$ $+ \frac{6}{55}\sqrt{145}e^5 \otimes e_8$	{12478, 128, 14567, 156}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:326	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{17}e^{12}, \frac{2}{83}\sqrt{30}e^{34}, \frac{2}{83}\sqrt{30}e^{16} + \frac{2}{83}\sqrt{15}e^{23},$ $\frac{2}{83}\sqrt{39}e^{13} + \frac{2}{83}\sqrt{35}e^{47}$	$(\frac{2}{83}, -\frac{5}{83}, \frac{4}{83}, \frac{1}{83}, -\frac{7}{83}, -\frac{3}{83}, \frac{5}{83}, -\frac{1}{83}, \frac{6}{83})$ $+ \frac{2}{83}\sqrt{17}e^2 \otimes e_5 + \frac{4}{83}\sqrt{14}e^4 \otimes e_8$	{128, 14567}
942:326	$0, 0, 0, 0, 0, \frac{13}{443}\sqrt{682}e^{12}, \frac{2}{443}\sqrt{7843}e^{34},$ $\frac{13}{443}\sqrt{682}e^{16} + \frac{1}{443}\sqrt{83886}e^{23}, \frac{2}{443}\sqrt{40238}e^{13} + \frac{1}{443}\sqrt{3410}e^{47}$	$(\frac{46}{443}, \frac{28}{443}, \frac{92}{443}, \frac{23}{443}, -\frac{295}{443}, \frac{74}{443}, \frac{115}{443}, \frac{120}{443}, \frac{138}{443})$ $+ \frac{3}{443}\sqrt{27962}e^1 \otimes e_5$	{2345689, 2356789, 3459, 3579}
942:326	$0, 0, 0, 0, 0, \frac{8}{919}\sqrt{4121}e^{12}, \frac{4}{919}\sqrt{36455}e^{34},$ $\frac{8}{919}\sqrt{4121}e^{16} + \frac{6}{919}\sqrt{4438}e^{23}, \frac{2}{919}\sqrt{106195}e^{13} + \frac{2}{919}\sqrt{132506}e^{47}$	$(\frac{82}{919}, \frac{81}{919}, \frac{164}{919}, \frac{41}{919}, -\frac{593}{919}, \frac{163}{919}, \frac{205}{919}, \frac{245}{919}, \frac{246}{919})$ $+ \frac{12}{919}\sqrt{6657}e^4 \otimes e_5$	{123489, 1235789, 13469, 135679}
942:326	$0, 0, 0, 0, 0, \frac{14}{451}\sqrt{37}e^{12}, \frac{14}{451}\sqrt{97}e^{34}, \frac{14}{451}\sqrt{97}e^{16} + \frac{14}{451}\sqrt{30}e^{23},$ $\frac{14}{451}\sqrt{109}e^{13} + \frac{7}{451}\sqrt{446}e^{47}$	$(\frac{14}{451}, -\frac{70}{451}, \frac{28}{451}, \frac{7}{451}, \frac{91}{451}, -\frac{56}{451}, \frac{35}{451}, -\frac{42}{451}, \frac{42}{451})$ $+ \frac{21}{451}\sqrt{6}e^5 \otimes e_9 + \frac{84}{451}\sqrt{5}e^4 \otimes e_8$	{1258, 14567}
942:326	$0, 0, 0, 0, 0, \frac{86}{5701}\sqrt{573}e^{12}, \frac{43}{5701}\sqrt{2426}e^{34},$ $\frac{43}{5701}\sqrt{694}e^{16} + \frac{86}{5701}\sqrt{183}e^{23}, \frac{43}{5701}\sqrt{1402}e^{13} + \frac{86}{5701}\sqrt{1067}e^{47}$	$(-\frac{86}{5701}, \frac{1591}{5701}, -\frac{172}{5701}, -\frac{43}{5701}, -\frac{1892}{5701}, \frac{1505}{5701}, -\frac{215}{5701}, \frac{1419}{5701}, -\frac{258}{5701})$ $+ \frac{43}{5701}\sqrt{4794}e^2 \otimes e_9 + \frac{86}{5701}\sqrt{1299}e^4 \otimes e_5$	{12478, 1258}
942:326	$0, 0, 0, 0, 0, \frac{2}{931}\sqrt{9010}e^{12}, \frac{2}{931}\sqrt{23002}e^{34},$ $\frac{2}{931}\sqrt{23002}e^{16} + \frac{4}{931}\sqrt{1749}e^{23}, \frac{2}{931}\sqrt{26659}e^{13} + \frac{2}{931}\sqrt{25334}e^{47}$	$(\frac{2}{49}, -\frac{163}{931}, \frac{4}{49}, \frac{1}{931}, \frac{139}{49}, -\frac{125}{931}, \frac{5}{49}, -\frac{87}{931}, \frac{6}{49})$ $+ \frac{12}{931}\sqrt{1166}e^4 \otimes e_8$	{1258, 128, 14567, 1467}
942:326	$0, 0, 0, 0, 0, \frac{17}{3751}\sqrt{1630}e^{12}, \frac{34}{3751}\sqrt{742}e^{34},$ $\frac{17}{3751}\sqrt{3382}e^{16} + \frac{17}{3751}\sqrt{462}e^{23}, \frac{17}{3751}\sqrt{3106}e^{13} + \frac{17}{3751}\sqrt{3122}e^{47}$	$(\frac{170}{3751}, -\frac{544}{3751}, \frac{340}{3751}, \frac{85}{3751}, -\frac{119}{3751}, -\frac{34}{3751}, \frac{425}{3751}, -\frac{204}{3751}, \frac{510}{3751})$ $+ \frac{102}{3751}\sqrt{146}e^4 \otimes e_8 + \frac{51}{3751}\sqrt{138}e^1 \otimes e_5$	{128, 1467}
942:326	$0, 0, 0, 0, 0, \frac{1}{443}\sqrt{59334}e^{12}, \frac{6}{443}\sqrt{682}e^{34}, \frac{6}{443}\sqrt{682}e^{16} + \frac{1}{443}\sqrt{83886}e^{23},$ $\frac{1}{443}\sqrt{40238}e^{13} + \frac{16}{443}\sqrt{341}e^{47}$	$(-\frac{36}{443}, \frac{233}{443}, -\frac{72}{443}, -\frac{18}{443}, \frac{74}{443}, \frac{197}{443}, -\frac{90}{443}, \frac{161}{443}, -\frac{108}{443})$ $+ \frac{3}{443}\sqrt{27962}e^2 \otimes e_9$	{123, 123457, 12347, 1235}
942:326	$0, 0, 0, 0, 0, \frac{51}{1621}\sqrt{6}e^{12}, \frac{6}{1621}\sqrt{762}e^{34}, \frac{6}{1621}\sqrt{762}e^{16} + \frac{3}{1621}\sqrt{1806}e^{23},$ $\frac{3}{1621}\sqrt{3522}e^{13} + \frac{24}{1621}\sqrt{69}e^{47}$	$(-\frac{12}{1621}, -\frac{9}{1621}, -\frac{24}{1621}, -\frac{6}{1621}, \frac{198}{1621}, -\frac{21}{1621}, -\frac{30}{1621}, -\frac{33}{1621}, -\frac{36}{1621})$ $+ \frac{12}{1621}\sqrt{390}e^4 \otimes e_8 + \frac{3}{1621}\sqrt{2298}e^2 \otimes e_9$	{1258, 128}
942:326	$0, 0, 0, 0, 0, \frac{39}{421}\sqrt{10}e^{12}, \frac{26}{421}\sqrt{13}e^{34}, \frac{13}{421}\sqrt{55}e^{16} + \frac{13}{421}\sqrt{249}e^{23},$ $\frac{13}{421}\sqrt{2}e^{13} + \frac{13}{421}\sqrt{173}e^{47}$	$(-\frac{26}{421}, \frac{91}{421}, -\frac{52}{421}, -\frac{13}{421}, \frac{208}{421}, \frac{65}{421}, -\frac{65}{421}, \frac{39}{421}, -\frac{78}{421})$ $+ \frac{13}{421}\sqrt{321}e^5 \otimes e_8 + \frac{13}{421}\sqrt{426}e^2 \otimes e_9$	{14569, 15679}
942:326	$0, 0, 0, 0, 0, \frac{46}{3461}\sqrt{30}e^{12}, \frac{46}{3461}\sqrt{46}e^{34},$ $\frac{46}{3461}\sqrt{533}e^{16} + \frac{230}{3461}\sqrt{42}e^{23}, \frac{92}{3461}\sqrt{215}e^{13} + \frac{92}{3461}\sqrt{95}e^{47}$	$(-\frac{46}{3461}, \frac{920}{3461}, -\frac{92}{3461}, -\frac{23}{3461}, -\frac{1150}{3461}, \frac{874}{3461}, -\frac{115}{3461}, \frac{828}{3461}, -\frac{138}{3461})$ $+ \frac{46}{3461}\sqrt{1461}e^3 \otimes e_5 + \frac{46}{3461}\sqrt{1689}e^2 \otimes e_9$	{123, 12347}
942:326	$0, 0, 0, 0, 0, \frac{608}{3979}e^{12}, \frac{19}{3979}\sqrt{3326}e^{34}, \frac{114}{3979}\sqrt{83}e^{16} + \frac{38}{3979}\sqrt{330}e^{23},$ $\frac{38}{3979}\sqrt{835}e^{13} + \frac{38}{3979}\sqrt{857}e^{47}$	$(\frac{190}{3979}, -\frac{646}{3979}, \frac{380}{3979}, \frac{95}{3979}, \frac{19}{3979}, -\frac{456}{3979}, \frac{475}{3979}, -\frac{266}{3979}, \frac{570}{3979})$ $+ \frac{247}{3979}\sqrt{6}e^3 \otimes e_5 + \frac{38}{3979}\sqrt{1473}e^4 \otimes e_8$	{1258, 14567}
942:327	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{14}e^{12}, \frac{2}{25}\sqrt{42}e^{34}, \frac{2}{25}\sqrt{42}e^{16} + \frac{4}{25}\sqrt{35}e^{23},$ $\frac{2}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{42}e^{37}$	$(0, \frac{11}{25}, 0, \frac{4}{25}, -\frac{17}{25}, \frac{11}{25}, \frac{4}{25}, \frac{11}{25}, \frac{4}{25})$ $+ \frac{14}{25}\sqrt{6}e^2 \otimes e_5$	{234679, 236, 345789, 358}
942:327	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{35}e^{12}, \frac{4}{23}\sqrt{21}e^{34}, \frac{4}{23}\sqrt{21}e^{16} + \frac{2}{23}\sqrt{133}e^{23},$ $\frac{2}{23}\sqrt{133}e^{14} + \frac{2}{23}\sqrt{35}e^{37}$	$(0, \frac{9}{23}, 0, -\frac{5}{23}, \frac{2}{23}, \frac{9}{23}, -\frac{5}{23}, \frac{9}{23}, -\frac{5}{23})$ $+ \frac{14}{23}\sqrt{3}e^2 \otimes e_9$	{2578, 278, 4569, 469}
942:327	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{22}e^{12}, \frac{1}{5}\sqrt{14}e^{34}, \frac{1}{5}\sqrt{22}e^{16} + \frac{1}{5}\sqrt{22}e^{23},$ $\frac{1}{5}\sqrt{14}e^{14} + \frac{1}{5}\sqrt{14}e^{37}$	$(0, \frac{1}{5}, 0, \frac{1}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{5}\sqrt{6}e^1 \otimes e_5$	{123489, 12378, 13469, 1367}
942:327	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{42}e^{12}, \frac{2}{25}\sqrt{42}e^{34}, \frac{4}{25}\sqrt{14}e^{16} + \frac{4}{25}\sqrt{35}e^{23},$ $\frac{2}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{42}e^{37}$	$(0, -\frac{3}{25}, 0, \frac{4}{25}, 1, -\frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{14}{25}\sqrt{6}e^5 \otimes e_8$	{234579, 235, 346789, 368}
942:327	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{14}e^{12}, \frac{7}{25}\sqrt{2}e^{34}, \frac{7}{25}\sqrt{2}e^{16} + \frac{2}{25}\sqrt{70}e^{23},$ $\frac{1}{25}\sqrt{238}e^{14} + \frac{2}{25}\sqrt{42}e^{37}$	$(0, -\frac{1}{25}, 0, \frac{6}{25}, -\frac{8}{25}, -\frac{1}{25}, \frac{6}{25}, -\frac{1}{25}, \frac{6}{25})$ $+ \frac{1}{25}\sqrt{210}e^4 \otimes e_8 + \frac{3}{25}\sqrt{14}e^2 \otimes e_5$	{278, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:327	$0, 0, 0, 0, 0, \frac{4}{19}e^{12}, \frac{2}{19}\sqrt{5}e^{34}, \frac{2}{19}\sqrt{13}e^{16} + \frac{2}{19}\sqrt{5}e^{23},$ $\frac{2}{19}\sqrt{13}e^{14} + \frac{4}{19}e^{37}$	$(0, -\frac{1}{19}, 0, \frac{5}{19}, -\frac{6}{19}, -\frac{1}{19}, \frac{5}{19}, -\frac{1}{19}, \frac{5}{19})$ $+ \frac{4}{19}\sqrt{6}e^1 \otimes e_5 + \frac{6}{19}\sqrt{3}e^4 \otimes e_8$	{1289, 1467}
942:327	$0, 0, 0, 0, 0, \frac{7}{25}\sqrt{2}e^{12}, \frac{2}{25}\sqrt{42}e^{34}, \frac{3}{25}\sqrt{14}e^{16} + \frac{2}{25}\sqrt{70}e^{23},$ $\frac{1}{25}\sqrt{238}e^{14} + \frac{7}{25}\sqrt{2}e^{37}$	$(0, \frac{3}{25}, 0, -\frac{4}{25}, \frac{2}{5}, \frac{3}{25}, -\frac{4}{25}, \frac{3}{25}, -\frac{4}{25})$ $+ \frac{1}{25}\sqrt{210}e^2 \otimes e_9 + \frac{3}{25}\sqrt{14}e^5 \otimes e_8$	{278, 4569}
942:327	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{13}e^{12}, \frac{4}{19}e^{34}, \frac{4}{19}e^{16} + \frac{2}{19}\sqrt{5}e^{23},$ $\frac{2}{19}\sqrt{13}e^{14} + \frac{2}{19}\sqrt{5}e^{37}$	$(0, \frac{5}{19}, 0, -\frac{1}{19}, -\frac{6}{19}, \frac{5}{19}, -\frac{1}{19}, \frac{5}{19}, -\frac{1}{19})$ $+ \frac{4}{19}\sqrt{6}e^1 \otimes e_5 + \frac{6}{19}\sqrt{3}e^4 \otimes e_9$	{1248, 1679}
942:328	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{2}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13} + \frac{4}{37}\sqrt{11}e^{26},$ $\frac{12}{37}\sqrt{3}e^{15} + \frac{20}{37}\sqrt{2}e^{37}$	$(-\frac{4}{185}, \frac{42}{185}, \frac{84}{185}, -\frac{116}{185}, \frac{56}{185}, \frac{38}{185}, -\frac{32}{185}, \frac{16}{37}, \frac{52}{185})$ $+ \frac{8}{37}\sqrt{39}e^3 \otimes e_4$	{12468, 148, 245, 456}
942:328	$0, 0, 0, 0, 0, \frac{4}{949}\sqrt{13938}e^{12}, \frac{12}{949}\sqrt{303}e^{34},$ $\frac{4}{949}\sqrt{22826}e^{13} + \frac{4}{949}\sqrt{24341}e^{26}, \frac{12}{949}\sqrt{3737}e^{15} + \frac{4}{949}\sqrt{13938}e^{37}$	$(-\frac{276}{949}, \frac{42}{949}, \frac{84}{949}, \frac{172}{949}, \frac{616}{949}, -\frac{18}{73}, \frac{256}{949}, -\frac{192}{949}, \frac{340}{949})$ $+ \frac{8}{949}\sqrt{20301}e^5 \otimes e_8$	{12356, 135, 238, 368}
942:328	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{12}{85}\sqrt{5}e^{34}, \frac{4}{85}\sqrt{110}e^{13} + \frac{12}{85}\sqrt{5}e^{26},$ $\frac{4}{85}\sqrt{35}e^{15} + \frac{4}{85}\sqrt{10}e^{37}$	$(\frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{8}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, 0, 0)$ $+ \frac{24}{85}\sqrt{5}e^1 \otimes e_5 + \frac{8}{17}\sqrt{2}e^4 \otimes e_8$	{24567, 457}
942:328	$0, 0, 0, 0, 0, \frac{20}{37}\sqrt{2}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13} + \frac{4}{37}\sqrt{11}e^{26},$ $\frac{12}{37}\sqrt{3}e^{15} + \frac{4}{37}\sqrt{2}e^{37}$	$(\frac{20}{37}, -\frac{2}{37}, -\frac{4}{37}, \frac{8}{37}, -\frac{20}{37}, \frac{18}{37}, \frac{4}{37}, \frac{16}{37}, 0)$ $+ \frac{8}{37}\sqrt{39}e^1 \otimes e_5$	{123, 136, 23568, 358}
942:328	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{6}e^{12}, \frac{2}{53}\sqrt{13}e^{34}, \frac{2}{53}\sqrt{31}e^{13} + \frac{4}{53}\sqrt{7}e^{26},$ $\frac{4}{53}\sqrt{3}e^{15} + \frac{4}{53}\sqrt{6}e^{37}$	$(\frac{3}{53}, \frac{1}{53}, \frac{2}{53}, -\frac{5}{53}, -\frac{4}{53}, \frac{4}{53}, -\frac{3}{53}, \frac{5}{53}, -\frac{1}{53})$ $+ \frac{6}{53}\sqrt{5}e^2 \otimes e_9$	{123578, 134689, 2367, 3459}
942:328	$0, 0, 0, 0, 0, \frac{4}{113}\sqrt{26}e^{12}, \frac{4}{113}\sqrt{429}e^{34}, \frac{4}{113}\sqrt{182}e^{13} + \frac{4}{113}\sqrt{429}e^{26},$ $\frac{4}{113}\sqrt{13}e^{15} + \frac{4}{113}\sqrt{26}e^{37}$	$(\frac{4}{113}, -\frac{14}{113}, -\frac{28}{113}, \frac{80}{113}, \frac{20}{113}, -\frac{10}{113}, \frac{52}{113}, -\frac{24}{113}, \frac{24}{113})$ $+ \frac{8}{113}\sqrt{299}e^4 \otimes e_8$	{1258, 1568, 245679, 4579}
942:328	$0, 0, 0, 0, 0, \frac{8}{293}\sqrt{7}e^{12}, \frac{2}{293}\sqrt{73}e^{34}, \frac{2}{293}\sqrt{139}e^{13} + \frac{24}{293}e^{26},$ $\frac{4}{293}\sqrt{14}e^{15} + \frac{8}{293}\sqrt{7}e^{37}$	$(\frac{11}{293}, -\frac{3}{293}, -\frac{6}{293}, \frac{7}{293}, -\frac{16}{293}, \frac{8}{293}, \frac{1}{293}, \frac{5}{293}, -\frac{5}{293})$ $+ \frac{2}{293}\sqrt{213}e^2 \otimes e_9 + \frac{4}{293}\sqrt{10}e^4 \otimes e_8$	{123578, 3459}
942:328	$0, 0, 0, 0, 0, \frac{9}{382}\sqrt{10}e^{12}, \frac{1}{382}\sqrt{447}e^{34}, \frac{1}{382}\sqrt{1038}e^{13} + \frac{1}{382}\sqrt{1110}e^{26},$ $\frac{1}{382}\sqrt{570}e^{15} + \frac{1}{382}\sqrt{10}e^{37}$	$(-\frac{13}{764}, \frac{7}{382}, \frac{7}{191}, -\frac{12}{191}, \frac{21}{764}, \frac{1}{764}, -\frac{5}{191}, \frac{15}{764}, \frac{2}{191})$ $+ \frac{1}{382}\sqrt{1659}e^2 \otimes e_9 + \frac{1}{382}\sqrt{330}e^5 \otimes e_8$	{134689, 3459}
942:328	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{2}e^{12}, \frac{1}{34}\sqrt{19}e^{34}, \frac{1}{34}\sqrt{46}e^{13} + \frac{1}{17}\sqrt{10}e^{26},$ $\frac{3}{34}\sqrt{2}e^{15} + \frac{1}{34}\sqrt{34}e^{37}$	$(\frac{1}{68}, \frac{1}{34}, \frac{1}{17}, -\frac{2}{17}, -\frac{1}{68}, \frac{3}{68}, -\frac{1}{17}, \frac{5}{68}, 0)$ $+ \frac{1}{34}\sqrt{6}e^1 \otimes e_5 + \frac{3}{34}\sqrt{7}e^2 \otimes e_9$	{123578, 2367}
942:328	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{34}e^{12}, \frac{1}{34}\sqrt{19}e^{34}, \frac{1}{34}\sqrt{46}e^{13} + \frac{1}{17}\sqrt{10}e^{26},$ $\frac{3}{34}\sqrt{2}e^{15} + \frac{2}{17}\sqrt{2}e^{37}$	$(\frac{5}{68}, 0, 0, -\frac{1}{34}, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, \frac{5}{68}, -\frac{1}{34})$ $+ \frac{1}{34}\sqrt{6}e^3 \otimes e_4 + \frac{3}{34}\sqrt{7}e^2 \otimes e_9$	{134689, 3459}
942:329	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{21}e^{12}, \frac{1}{13}\sqrt{42}e^{34}, \frac{2}{13}\sqrt{7}e^{16} + \frac{2}{13}\sqrt{35}e^{23},$ $\frac{3}{13}\sqrt{14}e^{15} + \frac{2}{13}\sqrt{21}e^{37}$	$(0, -\frac{3}{13}, 0, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{42}e^5 \otimes e_8$	{124689, 157, 278, 4569}
942:329	$0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{7}{61}\sqrt{6}e^{34}, \frac{21}{61}\sqrt{2}e^{16} + \frac{7}{61}\sqrt{38}e^{23},$ $\frac{12}{61}e^{15} + \frac{28}{61}e^{37}$	$(-\frac{7}{61}, \frac{34}{61}, -\frac{14}{61}, \frac{13}{61}, -\frac{8}{61}, \frac{27}{61}, -\frac{1}{61}, \frac{20}{61}, -\frac{15}{61})$ $+ \frac{7}{61}\sqrt{102}e^2 \otimes e_9$	{123457, 13689, 23467, 3589}
942:329	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{70}e^{12}, \frac{1}{41}\sqrt{42}e^{34}, \frac{1}{41}\sqrt{70}e^{16} + \frac{14}{41}\sqrt{2}e^{23},$ $\frac{1}{41}\sqrt{546}e^{15} + \frac{2}{41}\sqrt{35}e^{37}$	$(-\frac{7}{82}, -\frac{1}{82}, -\frac{7}{41}, \frac{17}{41}, \frac{13}{82}, -\frac{4}{41}, \frac{10}{41}, -\frac{15}{82}, \frac{3}{41})$ $- \frac{2}{41}\sqrt{105}e^4 \otimes e_9 + \frac{3}{41}\sqrt{70}e^5 \otimes e_8$	{12689, 1457, 2478, 569}
942:329	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{70}e^{12}, \frac{1}{41}\sqrt{42}e^{34}, \frac{1}{41}\sqrt{70}e^{16} + \frac{14}{41}\sqrt{2}e^{23},$ $\frac{1}{41}\sqrt{546}e^{15} + \frac{2}{41}\sqrt{35}e^{37}$	$(-\frac{7}{82}, -\frac{1}{82}, -\frac{7}{41}, \frac{17}{41}, \frac{13}{82}, -\frac{4}{41}, \frac{10}{41}, -\frac{15}{82}, \frac{3}{41})$ $+ \frac{2}{41}\sqrt{105}e^4 \otimes e_9 + \frac{3}{41}\sqrt{70}e^5 \otimes e_8$	{12689, 1457, 2478, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:329	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{42}e^{12}, \frac{1}{49}\sqrt{210}e^{34}, \frac{3}{49}\sqrt{14}e^{16} + \frac{1}{49}\sqrt{462}e^{23},$ $\frac{6}{49}\sqrt{7}e^{15} + \frac{2}{49}\sqrt{42}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{3}{7}, 0, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{1}{49}\sqrt{966}e^2 \otimes e_9 - \frac{2}{49}\sqrt{210}e^4 \otimes e_8$	{1258, 14679, 268, 4579}
942:329	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{42}e^{12}, \frac{1}{49}\sqrt{210}e^{34}, \frac{3}{49}\sqrt{14}e^{16} + \frac{1}{49}\sqrt{462}e^{23},$ $\frac{6}{49}\sqrt{7}e^{15} + \frac{2}{49}\sqrt{42}e^{37}$	$(-\frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, \frac{3}{7}, 0, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{1}{49}\sqrt{966}e^2 \otimes e_9 + \frac{2}{49}\sqrt{210}e^4 \otimes e_8$	{1258, 14679, 268, 4579}
942:329	$0, 0, 0, 0, 0, \frac{10}{199}\sqrt{21}e^{12}, \frac{3}{199}\sqrt{182}e^{34}, \frac{4}{199}\sqrt{105}e^{16} + \frac{42}{199}\sqrt{3}e^{23},$ $\frac{1}{199}\sqrt{4746}e^{15} + \frac{10}{199}\sqrt{21}e^{37}$	$(-\frac{14}{199}, \frac{13}{199}, -\frac{28}{199}, \frac{48}{199}, \frac{6}{199}, -\frac{1}{199}, \frac{20}{199}, -\frac{15}{199}, -\frac{8}{199})$ $+ \frac{2}{199}\sqrt{1155}e^5 \otimes e_8 + \frac{4}{199}\sqrt{210}e^2 \otimes e_9$	{278, 4569}
942:329	$0, 0, 0, 0, 0, \frac{16}{497}\sqrt{182}e^{12}, \frac{16}{497}\sqrt{102}e^{34}, \frac{16}{497}\sqrt{79}e^{16} + \frac{16}{497}\sqrt{329}e^{23},$ $\frac{64}{497}\sqrt{15}e^{15} + \frac{16}{497}\sqrt{127}e^{37}$	$(\frac{44}{497}, -\frac{124}{497}, \frac{88}{497}, -\frac{40}{497}, \frac{92}{497}, -\frac{80}{497}, \frac{48}{497}, -\frac{36}{497}, \frac{136}{497})$ $+ \frac{16}{497}\sqrt{165}e^3 \otimes e_4 + \frac{16}{497}\sqrt{309}e^5 \otimes e_8$	{124689, 4569}
942:329	$0, 0, 0, 0, 0, \frac{4}{589}\sqrt{2490}e^{12}, \frac{12}{589}\sqrt{249}e^{34},$ $\frac{4}{589}\sqrt{2490}e^{16} + \frac{4}{589}\sqrt{15023}e^{23}, \frac{12}{589}\sqrt{83}e^{15} + \frac{4}{589}\sqrt{11039}e^{37}$	$(\frac{151}{589}, -\frac{51}{589}, \frac{302}{589}, -\frac{362}{589}, \frac{91}{589}, \frac{100}{589}, -\frac{60}{589}, \frac{251}{589}, \frac{242}{589})$ $+ \frac{4}{589}\sqrt{40587}e^3 \otimes e_4$	{124568, 145, 248, 46}
942:329	$0, 0, 0, 0, 0, \frac{164}{5629}\sqrt{6}e^{12}, \frac{123}{5629}\sqrt{118}e^{34},$ $\frac{123}{5629}\sqrt{202}e^{16} + \frac{41}{5629}\sqrt{4142}e^{23}, \frac{738}{5629}\sqrt{7}e^{15} + \frac{164}{5629}\sqrt{101}e^{37}$	$(\frac{205}{5629}, \frac{1230}{5629}, \frac{410}{5629}, -\frac{1271}{5629}, -\frac{656}{5629}, \frac{1435}{5629}, -\frac{861}{5629}, \frac{1640}{5629}, -\frac{451}{5629})$ $+ \frac{123}{5629}\sqrt{638}e^2 \otimes e_9 + \frac{164}{5629}\sqrt{285}e^3 \otimes e_4$	{13689, 3589}
942:329	$0, 0, 0, 0, 0, \frac{4}{317}\sqrt{861}e^{12}, \frac{3}{317}\sqrt{6314}e^{34}, \frac{2}{317}\sqrt{15785}e^{16} + \frac{2}{317}\sqrt{2870}e^{23},$ $\frac{1}{317}\sqrt{18942}e^{15} + \frac{4}{317}\sqrt{861}e^{37}$	$(-\frac{42}{317}, \frac{15}{317}, -\frac{84}{317}, \frac{218}{317}, \frac{92}{317}, -\frac{27}{317}, \frac{134}{317}, -\frac{69}{317}, \frac{50}{317})$ $+ \frac{2}{317}\sqrt{37023}e^4 \otimes e_8$	{128, 145679, 2568, 479}
942:329	$0, 0, 0, 0, 0, \frac{676}{1621}e^{12}, \frac{13}{1621}\sqrt{1002}e^{34}, \frac{39}{1621}\sqrt{302}e^{16} + \frac{13}{1621}\sqrt{2602}e^{23},$ $\frac{234}{1621}\sqrt{7}e^{15} + \frac{52}{1621}\sqrt{109}e^{37}$	$(\frac{65}{1621}, \frac{130}{1621}, \frac{130}{1621}, -\frac{299}{1621}, -\frac{104}{1621}, \frac{195}{1621}, -\frac{169}{1621}, \frac{260}{1621}, -\frac{39}{1621})$ $+ \frac{13}{1621}\sqrt{42}e^2 \otimes e_9 + \frac{13}{1621}\sqrt{5}e^1 \otimes e_5$	{1367, 357}
942:329	$0, 0, 0, 0, 0, \frac{5}{3733}\sqrt{4754}e^{12}, \frac{10}{3733}\sqrt{561}e^{34},$ $\frac{50}{3733}\sqrt{53}e^{16} + \frac{5}{3733}\sqrt{4318}e^{23}, \frac{70}{3733}\sqrt{21}e^{15} + \frac{5}{3733}\sqrt{3070}e^{37}$	$(-\frac{55}{3733}, \frac{170}{3733}, -\frac{110}{3733}, \frac{85}{3733}, -\frac{80}{3733}, \frac{115}{3733}, -\frac{25}{3733}, \frac{60}{3733}, -\frac{135}{3733})$ $+ \frac{10}{3733}\sqrt{1263}e^1 \otimes e_5 + \frac{15}{3733}\sqrt{182}e^4 \otimes e_8$	{12378, 235678}
942:329	$0, 0, 0, 0, 0, \frac{8}{613}\sqrt{1010}e^{12}, \frac{16}{613}\sqrt{93}e^{34}, \frac{8}{613}\sqrt{1010}e^{16} + \frac{16}{613}\sqrt{241}e^{23},$ $\frac{16}{613}\sqrt{210}e^{15} + \frac{16}{613}\sqrt{163}e^{37}$	$(\frac{23}{613}, \frac{53}{613}, \frac{46}{613}, -\frac{110}{613}, -\frac{41}{613}, \frac{76}{613}, -\frac{64}{613}, \frac{99}{613}, -\frac{18}{613})$ $+ \frac{8}{613}\sqrt{1074}e^1 \otimes e_5$	{12378, 1367, 235678, 357}
942:330	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{3874}e^{12}, \frac{4}{125}\sqrt{298}e^{34}, \frac{4}{125}\sqrt{298}e^{16},$ $\frac{1}{125}\sqrt{7003}e^{13} + \frac{1}{125}\sqrt{2235}e^{25} + \frac{1}{125}\sqrt{5513}e^{47}$	$(-\frac{4}{25}, \frac{161}{250}, \frac{32}{125}, -\frac{2}{25}, -\frac{137}{250}, \frac{121}{250}, \frac{22}{125}, \frac{81}{250}, \frac{12}{125})$ $+ \frac{1}{125}\sqrt{29949}e^2 \otimes e_5$	{12478, 128, 14567, 156}
942:330	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{303}e^{12}, \frac{1}{125}\sqrt{3838}e^{34}, \frac{1}{125}\sqrt{10807}e^{16},$ $\frac{4}{125}\sqrt{7171}e^{13} + \frac{1}{125}\sqrt{40605}e^{25} + \frac{1}{125}\sqrt{303}e^{47}$	$(\frac{2}{125}, -\frac{13}{50}, \frac{38}{125}, \frac{1}{125}, \frac{29}{50}, -\frac{61}{125}, \frac{39}{125}, -\frac{57}{250}, \frac{8}{25})$ $+ \frac{3}{125}\sqrt{2323}e^5 \otimes e_8$	{123489, 123789, 134569, 135679}
942:330	$0, 0, 0, 0, 0, \frac{44}{425}\sqrt{19}e^{12}, \frac{44}{425}\sqrt{22}e^{34}, \frac{44}{425}\sqrt{22}e^{16},$ $\frac{22}{425}\sqrt{2}e^{13} + \frac{22}{425}\sqrt{15}e^{25} + \frac{22}{425}\sqrt{23}e^{47}$	$(-\frac{22}{85}, \frac{154}{425}, \frac{176}{425}, -\frac{11}{85}, -\frac{88}{425}, \frac{44}{425}, \frac{121}{425}, -\frac{66}{425}, \frac{66}{425})$ $+ \frac{22}{425}\sqrt{159}e^2 \otimes e_5 + \frac{22}{425}\sqrt{210}e^3 \otimes e_8$	{24678, 268}
942:330	$0, 0, 0, 0, 0, \frac{4}{113}\sqrt{26}e^{12}, \frac{4}{113}\sqrt{429}e^{34}, \frac{4}{113}\sqrt{429}e^{16},$ $\frac{4}{113}\sqrt{182}e^{13} + \frac{4}{113}\sqrt{13}e^{25} + \frac{4}{113}\sqrt{26}e^{47}$	$(-\frac{28}{113}, \frac{18}{113}, \frac{66}{113}, -\frac{14}{113}, \frac{20}{113}, -\frac{10}{113}, \frac{52}{113}, -\frac{38}{113}, \frac{38}{113})$ $+ \frac{8}{113}\sqrt{299}e^3 \otimes e_8$	{245678, 2568, 3459, 3579}
942:330	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{310}e^{12}, \frac{2}{131}\sqrt{670}e^{34}, \frac{2}{131}\sqrt{670}e^{16},$ $\frac{20}{131}\sqrt{7}e^{13} + \frac{2}{131}\sqrt{30}e^{25} + \frac{4}{131}\sqrt{170}e^{47}$	$(-\frac{8}{131}, -\frac{8}{131}, \frac{23}{131}, -\frac{4}{131}, \frac{23}{131}, -\frac{16}{131}, \frac{19}{131}, -\frac{24}{131}, \frac{15}{131})$ $+ \frac{2}{131}\sqrt{1110}e^4 \otimes e_8$	{1235789, 128, 13469, 14567}
942:330	$0, 0, 0, 0, 0, \frac{16}{383}\sqrt{26}e^{12}, \frac{8}{383}\sqrt{165}e^{34}, \frac{8}{383}\sqrt{165}e^{16},$ $\frac{48}{383}\sqrt{5}e^{13} + \frac{8}{383}\sqrt{15}e^{25} + \frac{8}{383}\sqrt{170}e^{47}$	$(-\frac{40}{383}, \frac{28}{383}, \frac{64}{383}, -\frac{20}{383}, -\frac{4}{383}, -\frac{12}{383}, \frac{44}{383}, -\frac{52}{383}, \frac{24}{383})$ $+ \frac{16}{383}\sqrt{17}e^2 \otimes e_5 + \frac{8}{383}\sqrt{266}e^4 \otimes e_8$	{128, 14567}
942:331	$0, 0, 0, 0, 0, \frac{1}{162}\sqrt{4071}e^{12}, \frac{1}{162}\sqrt{7906}e^{34}, \frac{1}{162}\sqrt{7906}e^{16},$ $\frac{1}{162}\sqrt{4602}e^{15} + \frac{1}{162}\sqrt{4602}e^{23} + \frac{2}{81}\sqrt{590}e^{47}$	$(-\frac{37}{162}, \frac{5}{27}, -\frac{5}{324}, \frac{5}{54}, \frac{43}{108}, -\frac{7}{162}, \frac{25}{324}, -\frac{22}{81}, \frac{55}{324})$ $+ \frac{1}{162}\sqrt{16107}e^4 \otimes e_8$	{1235789, 128, 236789, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:331	$0, 0, 0, 0, 0, \frac{1}{171}\sqrt{1146}e^{12}, \frac{1}{171}\sqrt{4966}e^{34}, \frac{1}{171}\sqrt{15662}e^{16},$ $\frac{4}{171}\sqrt{1146}e^{15} + \frac{4}{171}\sqrt{191}e^{23} + \frac{1}{171}\sqrt{1146}e^{47}$	$(-\frac{55}{171}, \frac{14}{57}, \frac{26}{171}, \frac{7}{57}, \frac{41}{57}, -\frac{13}{171}, \frac{47}{171}, -\frac{68}{171}, \frac{68}{171})$ $+ \frac{2}{171}\sqrt{13370}e^5 \otimes e_8$	{14789, 189, 3468, 3678}
942:331	$0, 0, 0, 0, 0, \frac{4}{2919}\sqrt{339}e^{12}, \frac{1}{2919}\sqrt{4830}e^{34}, \frac{1}{973}\sqrt{822}e^{16},$ $\frac{2}{973}\sqrt{130}e^{15} + \frac{2}{2919}\sqrt{849}e^{23} + \frac{1}{973}\sqrt{710}e^{47}$	$(\frac{3}{973}, -\frac{2}{139}, \frac{19}{973}, -\frac{1}{139}, \frac{2}{973}, -\frac{11}{973}, \frac{12}{973}, -\frac{8}{973}, \frac{5}{973})$ $+ \frac{1}{2919}\sqrt{9318}e^4 \otimes e_8 + \frac{2}{2919}\sqrt{1605}e^1 \otimes e_5$	{128, 2568}
942:331	$0, 0, 0, 0, 0, \frac{2}{1051}\sqrt{6511}e^{12}, \frac{22}{1051}\sqrt{766}e^{34}, \frac{2}{1051}\sqrt{159711}e^{16},$ $\frac{20}{1051}\sqrt{766}e^{15} + \frac{10}{1051}\sqrt{4979}e^{23} + \frac{2}{1051}\sqrt{6511}e^{47}$	$(-\frac{58}{1051}, -\frac{166}{1051}, \frac{484}{1051}, -\frac{83}{1051}, \frac{376}{1051}, \frac{224}{1051}, \frac{401}{1051}, -\frac{282}{1051}, \frac{318}{1051})$ $+ \frac{10}{1051}\sqrt{13405}e^3 \otimes e_8$	{134569, 135679, 349, 379}
942:331	$0, 0, 0, 0, 0, \frac{2}{3177}\sqrt{1779594}e^{12}, \frac{4}{3177}\sqrt{88111}e^{34}, \frac{2}{3177}\sqrt{1655494}e^{16},$ $\frac{10}{3177}\sqrt{40953}e^{15} + \frac{20}{3177}\sqrt{3723}e^{23} + \frac{2}{3177}\sqrt{693719}e^{47}$	$(\frac{1234}{3177}, -\frac{194}{1059}, \frac{568}{3177}, -\frac{97}{1059}, -\frac{416}{1059}, \frac{652}{3177}, \frac{277}{3177}, \frac{1886}{3177}, -\frac{14}{3177})$ $+ \frac{10}{3177}\sqrt{130305}e^1 \otimes e_5$	{12478, 128, 245678, 2568}
942:332	$0, 0, 0, 0, 0, \frac{8}{113}\sqrt{14}e^{12}, \frac{8}{113}\sqrt{15}e^{34}, \frac{8}{113}\sqrt{30}e^{13} + \frac{8}{113}\sqrt{15}e^{26},$ $\frac{8}{113}\sqrt{21}e^{15} + \frac{32}{113}\sqrt{2}e^{47}$	$(\frac{28}{113}, -\frac{16}{113}, -\frac{32}{113}, \frac{28}{113}, -\frac{4}{113}, \frac{12}{113}, -\frac{4}{113}, -\frac{4}{113}, \frac{24}{113})$ $- \frac{8}{113}\sqrt{38}e^1 \otimes e_5 + \frac{8}{113}\sqrt{62}e^4 \otimes e_8$	{128, 168, 24567, 457}
942:332	$0, 0, 0, 0, 0, \frac{8}{113}\sqrt{14}e^{12}, \frac{8}{113}\sqrt{15}e^{34}, \frac{8}{113}\sqrt{30}e^{13} + \frac{8}{113}\sqrt{15}e^{26},$ $\frac{8}{113}\sqrt{21}e^{15} + \frac{32}{113}\sqrt{2}e^{47}$	$(\frac{28}{113}, -\frac{16}{113}, -\frac{32}{113}, \frac{28}{113}, -\frac{4}{113}, \frac{12}{113}, -\frac{4}{113}, -\frac{4}{113}, \frac{24}{113})$ $+ \frac{8}{113}\sqrt{38}e^1 \otimes e_5 + \frac{8}{113}\sqrt{62}e^4 \otimes e_8$	{128, 168, 24567, 457}
942:332	$0, 0, 0, 0, 0, \frac{2}{891}\sqrt{51305}e^{12}, \frac{4}{891}\sqrt{6045}e^{34},$ $\frac{2}{891}\sqrt{49755}e^{13} + \frac{4}{891}\sqrt{15655}e^{26} + \frac{2}{891}\sqrt{33945}e^{15} + \frac{8}{891}\sqrt{2170}e^{47}$	$(-\frac{82}{891}, \frac{52}{297}, \frac{104}{297}, -\frac{233}{891}, -\frac{8}{99}, \frac{74}{891}, \frac{79}{891}, \frac{230}{891}, -\frac{14}{81})$ $+ \frac{124}{891}\sqrt{30}e^2 \otimes e_9$	{134689, 136789, 3459, 3579}
942:332	$0, 0, 0, 0, 0, \frac{8}{243}\sqrt{47}e^{12}, \frac{16}{243}\sqrt{6}e^{34}, \frac{4}{243}\sqrt{174}e^{13} + \frac{4}{243}\sqrt{382}e^{26},$ $\frac{8}{243}\sqrt{69}e^{15} + \frac{4}{243}\sqrt{130}e^{47}$	$(-\frac{44}{243}, \frac{8}{81}, \frac{16}{81}, -\frac{28}{243}, \frac{4}{27}, -\frac{20}{243}, \frac{20}{243}, \frac{4}{243}, -\frac{8}{243})$ $- \frac{4}{81}\sqrt{34}e^5 \otimes e_8 + \frac{8}{243}\sqrt{138}e^2 \otimes e_9$	{134689, 136789, 3459, 3579}
942:332	$0, 0, 0, 0, 0, \frac{8}{243}\sqrt{47}e^{12}, \frac{16}{243}\sqrt{6}e^{34}, \frac{4}{243}\sqrt{174}e^{13} + \frac{4}{243}\sqrt{382}e^{26},$ $\frac{8}{243}\sqrt{69}e^{15} + \frac{4}{243}\sqrt{130}e^{47}$	$(-\frac{44}{243}, \frac{8}{81}, \frac{16}{81}, -\frac{28}{243}, \frac{4}{27}, -\frac{20}{243}, \frac{20}{243}, \frac{4}{243}, -\frac{8}{243})$ $+ \frac{4}{81}\sqrt{34}e^5 \otimes e_8 + \frac{8}{243}\sqrt{138}e^2 \otimes e_9$	{134689, 136789, 3459, 3579}
942:332	$0, 0, 0, 0, 0, \frac{16}{3947}\sqrt{118}e^{13} + \frac{8}{3947}\sqrt{1473}e^{26}, \frac{8}{3947}\sqrt{257}e^{15} + \frac{8}{3947}\sqrt{1230}e^{47}$	$(-\frac{188}{3947}, \frac{56}{3947}, \frac{112}{3947}, -\frac{44}{3947}, \frac{212}{3947}, -\frac{132}{3947}, \frac{68}{3947}, -\frac{76}{3947}, \frac{24}{3947})$ $+ \frac{16}{3947}\sqrt{483}e^2 \otimes e_9 + \frac{8}{3947}\sqrt{1546}e^4 \otimes e_8$	{136789, 3459}
942:332	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{665}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13} + \frac{4}{67}\sqrt{35}e^{26},$ $\frac{2}{67}\sqrt{455}e^{15} + \frac{4}{67}\sqrt{70}e^{47}$	$(\frac{38}{67}, -\frac{4}{67}, -\frac{8}{67}, \frac{7}{67}, -\frac{32}{67}, \frac{34}{67}, -\frac{1}{67}, \frac{30}{67}, \frac{6}{67})$ $- \frac{28}{67}\sqrt{10}e^1 \otimes e_5$	{123, 12347, 13467, 136, 2345678, 23568, 34578, 358}
942:332	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{665}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13} + \frac{4}{67}\sqrt{35}e^{26},$ $\frac{2}{67}\sqrt{455}e^{15} + \frac{4}{67}\sqrt{70}e^{47}$	$(\frac{38}{67}, -\frac{4}{67}, -\frac{8}{67}, \frac{7}{67}, -\frac{32}{67}, \frac{34}{67}, -\frac{1}{67}, \frac{30}{67}, \frac{6}{67})$ $+ \frac{28}{67}\sqrt{10}e^1 \otimes e_5$	{123, 12347, 13467, 136, 2345678, 23568, 34578, 358}
942:332	$0, 0, 0, 0, 0, \frac{32}{1177}\sqrt{65}e^{12}, \frac{16}{1177}\sqrt{1595}e^{34},$ $\frac{160}{1177}\sqrt{11}e^{13} + \frac{16}{1177}\sqrt{1595}e^{26} + \frac{16}{1177}\sqrt{865}e^{15} + \frac{240}{1177}\sqrt{10}e^{47}$	$(\frac{104}{1177}, -\frac{168}{1177}, -\frac{336}{1177}, \frac{408}{1177}, \frac{376}{1177}, -\frac{64}{1177}, \frac{72}{1177}, -\frac{232}{1177}, \frac{480}{1177})$ $+ \frac{16}{1177}\sqrt{4870}e^4 \otimes e_8$	{128, 168, 24567, 457}
942:332	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{65}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{2}{37}\sqrt{35}e^{13} + \frac{4}{37}\sqrt{15}e^{26},$ $\frac{10}{37}e^{15} + \frac{4}{37}\sqrt{10}e^{47}$	$(\frac{2}{37}, \frac{4}{37}, \frac{8}{37}, -\frac{7}{37}, -\frac{8}{37}, \frac{6}{37}, \frac{1}{37}, \frac{10}{37}, -\frac{6}{37})$ $- \frac{4}{37}\sqrt{10}e^1 \otimes e_5 + \frac{4}{37}\sqrt{30}e^2 \otimes e_9$	{134689, 136789, 3459, 3579}
942:332	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{65}e^{12}, \frac{4}{37}\sqrt{5}e^{34}, \frac{2}{37}\sqrt{35}e^{13} + \frac{4}{37}\sqrt{15}e^{26},$ $\frac{10}{37}e^{15} + \frac{4}{37}\sqrt{10}e^{47}$	$(\frac{2}{37}, \frac{4}{37}, \frac{8}{37}, -\frac{7}{37}, -\frac{8}{37}, \frac{6}{37}, \frac{1}{37}, \frac{10}{37}, -\frac{6}{37})$ $+ \frac{4}{37}\sqrt{10}e^1 \otimes e_5 + \frac{4}{37}\sqrt{30}e^2 \otimes e_9$	{134689, 136789, 3459, 3579}
942:333	$0, 0, 0, 0, 0, \frac{9}{469}\sqrt{74}e^{12}, \frac{54}{469}\sqrt{3}e^{34}, \frac{9}{469}\sqrt{86}e^{16} + \frac{9}{469}\sqrt{402}e^{23},$ $\frac{9}{469}\sqrt{346}e^{15} + \frac{18}{469}\sqrt{15}e^{47}$	$(-\frac{54}{469}, \frac{99}{469}, -\frac{108}{469}, \frac{9}{67}, \frac{72}{469}, \frac{45}{469}, -\frac{45}{469}, -\frac{9}{469}, \frac{18}{469})$ $+ \frac{18}{469}\sqrt{103}e^5 \otimes e_8 + \frac{72}{469}\sqrt{7}e^2 \otimes e_9$	{4569, 5679}
942:333	$0, 0, 0, 0, 0, \frac{7}{501}\sqrt{606}e^{12}, \frac{5}{1503}\sqrt{26866}e^{34},$ $\frac{11}{1503}\sqrt{7070}e^{16} + \frac{2}{1503}\sqrt{27573}e^{23} + \frac{2}{1503}\sqrt{137865}e^{15} + \frac{1}{1503}\sqrt{892234}e^{47}$	$(-\frac{149}{1503}, -\frac{4}{501}, -\frac{298}{1503}, \frac{397}{1503}, \frac{215}{501}, -\frac{161}{1503}, \frac{11}{167}, -\frac{310}{1503}, \frac{496}{1503})$ $+ \frac{8}{1503}\sqrt{27573}e^4 \otimes e_8$	{128, 1467, 2568, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:333	$0, 0, 0, 0, 0, \frac{1}{1431}\sqrt{343734e^{12}}, \frac{14}{1431}\sqrt{971e^{34}},$ $\frac{1}{1431}\sqrt{433066e^{16}} + \frac{5}{1431}\sqrt{40782e^{23}}, \frac{5}{1431}\sqrt{29130e^{15}} + \frac{8}{1431}\sqrt{10681e^{47}}$	$(-\frac{98}{1431}, \frac{27}{53}, -\frac{196}{1431}, -\frac{23}{1431}, -\frac{16}{159}, \frac{631}{1431}, -\frac{73}{477}, \frac{533}{1431}, -\frac{242}{1431})$ $+\frac{20}{1431}\sqrt{5826e^2} \otimes e_9$	{123457, 1235, 23467, 236}
942:333	$0, 0, 0, 0, 0, \frac{62}{2073}\sqrt{39e^{12}}, \frac{403}{6219}\sqrt{10e^{34}},$ $\frac{62}{6219}\sqrt{455e^{16}} + \frac{62}{6219}\sqrt{627e^{23}}, \frac{31}{6219}\sqrt{390e^{15}} + \frac{62}{6219}\sqrt{1069e^{47}}$	$(-\frac{682}{6219}, \frac{403}{2073}, -\frac{1364}{6219}, \frac{806}{6219}, \frac{310}{2073}, \frac{527}{6219}, -\frac{62}{691}, -\frac{155}{6219}, \frac{248}{6219})$ $+\frac{62}{6219}\sqrt{1527e^4} \otimes e_8 + \frac{62}{691}\sqrt{15e^2} \otimes e_9$	{128, 2568}
942:333	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{170e^{12}}, \frac{2}{21}\sqrt{17e^{34}}, \frac{1}{21}\sqrt{34e^{16}} + \frac{1}{7}\sqrt{34e^{23}},$ $\frac{1}{7}\sqrt{34e^{15}} + \frac{2}{21}\sqrt{17e^{47}}$	$(-\frac{2}{21}, -\frac{1}{21}, -\frac{4}{21}, \frac{1}{3}, \frac{4}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{5}{21}, \frac{10}{21})$ $+\frac{2}{7}\sqrt{17e^5} \otimes e_8$	{134789, 1389, 234579, 2359}
942:334	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{13938e^{12}}, \frac{1}{587}\sqrt{7070e^{34}},$ $\frac{1}{587}\sqrt{48682e^{13}} + \frac{2}{587}\sqrt{13938e^{26}}, \frac{8}{587}\sqrt{707e^{35}} + \frac{11}{587}\sqrt{202e^{47}}$	$(\frac{53}{587}, \frac{35}{587}, \frac{70}{587}, -\frac{68}{587}, -\frac{136}{587}, \frac{88}{587}, \frac{2}{587}, \frac{123}{587}, -\frac{66}{587})$ $+\frac{1}{587}\sqrt{100798e^2} \otimes e_9$	{134689, 136789, 349, 379}
942:334	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{35e^{12}}, \frac{2}{67}\sqrt{665e^{34}}, \frac{2}{67}\sqrt{805e^{13}} + \frac{4}{67}\sqrt{35e^{26}},$ $\frac{2}{67}\sqrt{455e^{35}} + \frac{4}{67}\sqrt{70e^{47}}$	$(-\frac{8}{67}, \frac{19}{67}, \frac{38}{67}, -\frac{16}{67}, -\frac{32}{67}, \frac{11}{67}, \frac{22}{67}, \frac{30}{67}, \frac{6}{67})$ $+\frac{28}{67}\sqrt{10e^3} \otimes e_5$	{1245678, 12568, 14578, 158, 2457, 25, 4567, 56}
942:334	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{35e^{12}}, \frac{2}{67}\sqrt{665e^{34}}, \frac{2}{67}\sqrt{805e^{13}} + \frac{4}{67}\sqrt{35e^{26}},$ $\frac{2}{67}\sqrt{455e^{35}} + \frac{4}{67}\sqrt{70e^{47}}$	$(-\frac{8}{67}, \frac{19}{67}, \frac{38}{67}, -\frac{16}{67}, \frac{32}{67}, \frac{11}{67}, \frac{22}{67}, \frac{30}{67}, \frac{6}{67})$ $-\frac{28}{67}\sqrt{10e^3} \otimes e_5$	{1245678, 12568, 14578, 158, 2457, 25, 4567, 56}
942:334	$0, 0, 0, 0, 0, \frac{32}{303}\sqrt{2e^{12}}, \frac{16}{909}\sqrt{149e^{34}}, \frac{16}{909}\sqrt{219e^{13}} + \frac{8}{909}\sqrt{478e^{26}},$ $\frac{8}{909}\sqrt{354e^{35}} + \frac{8}{909}\sqrt{1330e^{47}}$	$(\frac{16}{101}, -\frac{88}{909}, -\frac{176}{909}, \frac{32}{303}, \frac{64}{303}, \frac{56}{909}, -\frac{80}{909}, -\frac{32}{909}, \frac{16}{909})$ $+\frac{16}{909}\sqrt{474e^4} \otimes e_8 + \frac{8}{909}\sqrt{1326e^1} \otimes e_9$	{1258, 1568}
942:334	$0, 0, 0, 0, 0, \frac{1}{108}\sqrt{4389e^{12}}, \frac{1}{108}\sqrt{1309e^{34}}, \frac{1}{36}\sqrt{385e^{13}} + \frac{1}{216}\sqrt{770e^{26}},$ $\frac{1}{216}\sqrt{13398e^{35}} + \frac{1}{216}\sqrt{17710e^{47}}$	$(\frac{19}{36}, -\frac{17}{216}, -\frac{17}{108}, -\frac{1}{72}, -\frac{1}{36}, \frac{97}{216}, -\frac{37}{216}, \frac{10}{27}, -\frac{5}{27})$ $+\frac{7}{216}\sqrt{1122e^1} \otimes e_9$	{123457, 1235, 134567, 1356}
942:334	$0, 0, 0, 0, 0, \frac{8}{5071}\sqrt{43e^{12}}, \frac{1}{5071}\sqrt{1718e^{34}}, \frac{1}{5071}\sqrt{1618e^{13}} + \frac{28}{5071}\sqrt{5e^{26}},$ $\frac{4}{5071}\sqrt{74e^{35}} + \frac{1}{5071}\sqrt{2986e^{47}}$	$(\frac{41}{5071}, -\frac{17}{5071}, -\frac{34}{5071}, \frac{8}{5071}, \frac{16}{5071}, \frac{24}{5071}, -\frac{26}{5071}, \frac{7}{5071}, -\frac{18}{5071})$ $+\frac{1}{5071}\sqrt{5422e^2} \otimes e_9 + \frac{4}{5071}\sqrt{219e^4} \otimes e_8$	{136789, 349}
942:334	$0, 0, 0, 0, 0, \frac{2}{487}\sqrt{78e^{12}}, \frac{1}{487}\sqrt{10e^{34}}, \frac{2}{487}\sqrt{58e^{13}} + \frac{1}{487}\sqrt{402e^{26}},$ $\frac{4}{487}\sqrt{23e^{35}} + \frac{4}{487}\sqrt{7e^{47}}$	$(\frac{13}{487}, -\frac{5}{487}, -\frac{10}{487}, \frac{2}{487}, \frac{4}{487}, \frac{8}{487}, -\frac{8}{487}, \frac{3}{487}, -\frac{6}{487})$ $+\frac{1}{487}\sqrt{598e^2} \otimes e_9 + \frac{3}{487}\sqrt{30e^5} \otimes e_8$	{234567, 2356}
942:334	$0, 0, 0, 0, 0, \frac{40}{3429}\sqrt{174e^{12}}, \frac{10}{3429}\sqrt{34829e^{34}},$ $\frac{10}{3429}\sqrt{23577e^{13}} + \frac{20}{3429}\sqrt{6322e^{26}}, \frac{10}{3429}\sqrt{28623e^{35}} + \frac{80}{3429}\sqrt{667e^{47}}$	$(-\frac{64}{1143}, -\frac{251}{3429}, -\frac{502}{3429}, \frac{28}{127}, \frac{56}{127}, -\frac{443}{3429}, \frac{2}{27}, -\frac{694}{3429}, \frac{1010}{3429})$ $+\frac{220}{3429}\sqrt{174e^4} \otimes e_8$	{1234569, 13459, 235789, 356789}
942:334	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{7e^{12}}, \frac{2}{35}\sqrt{14e^{34}}, \frac{2}{35}\sqrt{70e^{13}} + \frac{2}{35}\sqrt{14e^{26}},$ $\frac{2}{35}\sqrt{7e^{35}} + \frac{2}{5}e^{47}$	$(\frac{8}{35}, \frac{2}{35}, \frac{4}{35}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{35}, \frac{12}{35}, -\frac{6}{35})$ $-\frac{2}{35}\sqrt{91e^3} \otimes e_5 + \frac{6}{35}\sqrt{14e^1} \otimes e_9$	{234689, 236789, 3489, 3789}
942:334	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{7e^{12}}, \frac{2}{35}\sqrt{14e^{34}}, \frac{2}{35}\sqrt{70e^{13}} + \frac{2}{35}\sqrt{14e^{26}},$ $\frac{2}{35}\sqrt{7e^{35}} + \frac{2}{5}e^{47}$	$(\frac{8}{35}, \frac{2}{35}, \frac{4}{35}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{35}, \frac{12}{35}, -\frac{6}{35})$ $+\frac{2}{35}\sqrt{91e^3} \otimes e_5 + \frac{6}{35}\sqrt{14e^1} \otimes e_9$	{234689, 236789, 3489, 3789}
942:334	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{12}\sqrt{15e^{13}} + \frac{1}{24}\sqrt{30e^{26}},$ $\frac{1}{24}\sqrt{78e^{35}} + \frac{1}{24}\sqrt{30e^{47}}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+\frac{1}{12}\sqrt{30e^5} \otimes e_8 + \frac{1}{24}\sqrt{138e^1} \otimes e_9$	{24569, 25679, 459, 579}
942:334	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{12}\sqrt{15e^{13}} + \frac{1}{24}\sqrt{30e^{26}},$ $\frac{1}{24}\sqrt{78e^{35}} + \frac{1}{24}\sqrt{30e^{47}}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, 0)$ $-\frac{1}{12}\sqrt{30e^5} \otimes e_8 + \frac{1}{24}\sqrt{138e^1} \otimes e_9$	{24569, 25679, 459, 579}
942:335	$0, 0, 0, 0, 0, \frac{8}{967}\sqrt{1770e^{12}}, \frac{2}{967}\sqrt{9853e^{34}},$ $\frac{2}{967}\sqrt{27907e^{13}} + \frac{8}{967}\sqrt{1770e^{26}}, \frac{4}{967}\sqrt{6490e^{37}} + \frac{4}{967}\sqrt{1770e^{45}}$	$(\frac{141}{967}, \frac{7}{967}, \frac{14}{967}, -\frac{139}{967}, \frac{28}{967}, \frac{148}{967}, -\frac{125}{967}, \frac{155}{967}, -\frac{111}{967})$ $+\frac{6}{967}\sqrt{5369e^2} \otimes e_9$	{12378, 134689, 2367, 349}
942:335	$0, 0, 0, 0, 0, \frac{18}{143}\sqrt{2e^{12}}, \frac{3}{143}\sqrt{30e^{34}}, \frac{3}{143}\sqrt{258e^{13}} + \frac{18}{143}\sqrt{2e^{26}},$ $\frac{3}{143}\sqrt{30e^{37}} + \frac{9}{143}\sqrt{34e^{45}}$	$(\frac{24}{143}, -\frac{9}{143}, -\frac{18}{143}, \frac{3}{13}, -\frac{36}{143}, \frac{15}{143}, \frac{15}{143}, \frac{6}{143}, -\frac{3}{143})$ $+\frac{24}{143}\sqrt{6e^1} \otimes e_9 + \frac{24}{143}\sqrt{6e^4} \otimes e_8$	{1278, 1678, 2469, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:335	$0, 0, 0, 0, 0, \frac{18}{143}\sqrt{2}e^{12}, \frac{3}{143}\sqrt{30}e^{34}, \frac{3}{143}\sqrt{258}e^{13} + \frac{18}{143}\sqrt{2}e^{26},$ $\frac{3}{143}\sqrt{30}e^{37} + \frac{9}{143}\sqrt{34}e^{45}$	$(\frac{24}{143}, -\frac{9}{143}, -\frac{18}{143}, \frac{3}{13}, -\frac{36}{143}, \frac{15}{143}, \frac{15}{143}, \frac{6}{143}, -\frac{3}{143})$ $+ \frac{24}{143}\sqrt{6}e^1 \otimes e_9 - \frac{24}{143}\sqrt{6}e^4 \otimes e_8$	{1278, 1678, 2469, 49}
942:335	$0, 0, 0, 0, 0, \frac{52}{2911}\sqrt{115}e^{12}, \frac{13}{2911}\sqrt{142}e^{34},$ $\frac{52}{2911}\sqrt{73}e^{13} + \frac{13}{2911}\sqrt{2330}e^{26}, \frac{52}{2911}\sqrt{85}e^{37} + \frac{156}{2911}\sqrt{10}e^{45}$	$(\frac{13}{2911}, \frac{91}{2911}, \frac{182}{2911}, -\frac{442}{2911}, \frac{364}{2911}, \frac{104}{2911}, -\frac{260}{2911}, \frac{195}{2911}, -\frac{78}{2911})$ $+ \frac{39}{2911}\sqrt{406}e^2 \otimes e_9 + \frac{91}{2911}\sqrt{30}e^5 \otimes e_8$	{12378, 134689}
942:335	$0, 0, 0, 0, 0, \frac{35}{631}\sqrt{22}e^{12}, \frac{7}{631}\sqrt{282}e^{34}, \frac{119}{631}\sqrt{2}e^{13} + \frac{35}{631}\sqrt{22}e^{26},$ $\frac{14}{631}\sqrt{130}e^{37} + \frac{21}{631}\sqrt{10}e^{45}$	$(\frac{98}{631}, -\frac{14}{631}, -\frac{28}{631}, -\frac{7}{631}, -\frac{56}{631}, \frac{84}{631}, -\frac{35}{631}, \frac{70}{631}, -\frac{63}{631})$ $+ \frac{14}{631}\sqrt{226}e^2 \otimes e_9 + \frac{7}{631}\sqrt{190}e^4 \otimes e_5$	{134689, 349}
942:335	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{1106}e^{12}, \frac{1}{115}\sqrt{2686}e^{34}, \frac{1}{115}\sqrt{4898}e^{13} + \frac{2}{115}\sqrt{158}e^{26},$ $\frac{1}{115}\sqrt{2370}e^{37} + \frac{1}{115}\sqrt{6162}e^{45}$	$(\frac{56}{115}, -\frac{1}{23}, -\frac{2}{23}, -\frac{3}{115}, -\frac{4}{23}, \frac{51}{115}, -\frac{13}{115}, \frac{2}{5}, -\frac{1}{5})$ $+ \frac{8}{115}\sqrt{237}e^1 \otimes e_9$	{123457, 134567, 235689, 3589}
942:335	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{158}e^{12}, \frac{1}{115}\sqrt{2370}e^{34}, \frac{1}{115}\sqrt{4898}e^{13} + \frac{2}{115}\sqrt{1106}e^{26},$ $\frac{1}{115}\sqrt{2686}e^{37} + \frac{1}{115}\sqrt{6162}e^{45}$	$(-\frac{8}{115}, -\frac{1}{23}, -\frac{2}{23}, \frac{61}{23}, \frac{115}{23}, -\frac{4}{23}, -\frac{13}{115}, \frac{51}{115}, -\frac{18}{115}, \frac{41}{115})$ $+ \frac{8}{115}\sqrt{237}e^4 \otimes e_8$	{123456, 1345, 235789, 356789}
942:335	$0, 0, 0, 0, 0, \frac{4}{823}\sqrt{6665}e^{12}, \frac{2}{823}\sqrt{59555}e^{34},$ $\frac{20}{823}\sqrt{989}e^{13} + \frac{22}{823}\sqrt{215}e^{26}, \frac{2}{823}\sqrt{59555}e^{37} + \frac{6}{823}\sqrt{10965}e^{45}$	$(-\frac{248}{823}, \frac{91}{823}, \frac{182}{823}, -\frac{94}{823}, \frac{364}{823}, -\frac{157}{823}, \frac{88}{823}, -\frac{66}{823}, \frac{270}{823})$ $+ \frac{70}{823}\sqrt{129}e^5 \otimes e_8$	{234789, 238, 346789, 368}
942:335	$0, 0, 0, 0, 0, \frac{16}{845}e^{12}, \frac{8}{845}\sqrt{251}e^{34}, \frac{8}{845}\sqrt{398}e^{13} + \frac{4}{845}\sqrt{122}e^{26},$ $\frac{4}{845}\sqrt{530}e^{37} + \frac{12}{845}\sqrt{182}e^{45}$	$(\frac{8}{845}, \frac{4}{169}, \frac{8}{169}, -\frac{8}{65}, \frac{16}{169}, \frac{28}{845}, -\frac{64}{845}, \frac{48}{845}, -\frac{24}{845})$ $+ \frac{12}{845}\sqrt{158}e^1 \otimes e_9 + \frac{8}{845}\sqrt{435}e^5 \otimes e_8$	{1278, 1678}
942:335	$0, 0, 0, 0, 0, \frac{1}{455}\sqrt{71898}e^{12}, \frac{1}{455}\sqrt{226114}e^{34},$ $\frac{11}{455}\sqrt{1042}e^{13} + \frac{1}{455}\sqrt{71898}e^{26}, \frac{2}{455}\sqrt{24487}e^{37} + \frac{1}{91}\sqrt{3126}e^{45}$	$(\frac{138}{455}, -\frac{4}{35}, -\frac{8}{35}, \frac{313}{455}, -\frac{16}{35}, \frac{86}{455}, \frac{209}{455}, \frac{34}{455}, \frac{3}{13})$ $+ \frac{3}{455}\sqrt{42722}e^4 \otimes e_5$	{123578, 135678, 23567, 357}
942:335	$0, 0, 0, 0, 0, \frac{13}{319}\sqrt{130}e^{12}, \frac{13}{319}\sqrt{34}e^{34}, \frac{13}{319}\sqrt{62}e^{13} + \frac{26}{319}\sqrt{2}e^{26},$ $\frac{13}{319}\sqrt{94}e^{37} + \frac{78}{319}\sqrt{3}e^{45}$	$(\frac{130}{319}, -\frac{26}{319}, -\frac{52}{319}, \frac{65}{319}, -\frac{104}{319}, \frac{104}{319}, \frac{13}{319}, \frac{78}{319}, -\frac{39}{319})$ $+ \frac{13}{319}\sqrt{186}e^4 \otimes e_5 + \frac{13}{319}\sqrt{366}e^1 \otimes e_9$	{24679, 479}
942:335	$0, 0, 0, 0, 0, \frac{2}{605}\sqrt{818}e^{12}, \frac{2}{605}\sqrt{370}e^{34}, \frac{4}{605}\sqrt{163}e^{13} + \frac{64}{605}e^{26},$ $\frac{4}{605}\sqrt{166}e^{37} + \frac{2}{605}\sqrt{462}e^{45}$	$(\frac{34}{605}, -\frac{2}{121}, -\frac{4}{121}, \frac{2}{55}, -\frac{8}{121}, \frac{24}{605}, \frac{2}{605}, \frac{14}{605}, -\frac{18}{605})$ $+ \frac{2}{605}\sqrt{618}e^4 \otimes e_8 + \frac{8}{121}\sqrt{15}e^2 \otimes e_9$	{12378, 349}
942:336	$0, 0, 0, 0, 0, \frac{59}{6181}\sqrt{674}e^{12}, \frac{2124}{6181}\sqrt{2}e^{34},$ $\frac{59}{6181}\sqrt{346}e^{13} + \frac{590}{6181}\sqrt{23}e^{26}, \frac{118}{6181}\sqrt{219}e^{16} + \frac{59}{6181}\sqrt{2026}e^{37}$	$(\frac{236}{6181}, -\frac{649}{6181}, -\frac{1298}{6181}, \frac{2419}{6181}, \frac{472}{883}, -\frac{59}{883}, \frac{1121}{6181}, -\frac{1062}{6181}, -\frac{177}{6181})$ $+ \frac{354}{6181}\sqrt{137}e^5 \otimes e_9 + \frac{59}{6181}\sqrt{5754}e^4 \otimes e_8$	{135678, 23469}
942:336	$0, 0, 0, 0, 0, \frac{212}{5221}\sqrt{165}e^{12}, \frac{53}{5221}\sqrt{770}e^{34},$ $\frac{106}{5221}\sqrt{235}e^{13} + \frac{53}{5221}\sqrt{2962}e^{26}, \frac{53}{5221}\sqrt{966}e^{16} + \frac{53}{5221}\sqrt{2246}e^{37}$	$(\frac{318}{5221}, \frac{689}{5221}, \frac{1378}{5221}, -\frac{1431}{5221}, -\frac{2120}{5221}, \frac{1007}{5221}, -\frac{53}{5221}, \frac{1696}{5221}, \frac{1325}{5221})$ $+ \frac{53}{5221}\sqrt{3462}e^3 \otimes e_4 + \frac{53}{5221}\sqrt{5610}e^2 \otimes e_5$	{12378, 2367}
942:336	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{77}e^{12}, \frac{12}{119}\sqrt{7}e^{34}, \frac{4}{119}\sqrt{266}e^{13} + \frac{4}{17}\sqrt{2}e^{26},$ $\frac{4}{119}\sqrt{105}e^{16} + \frac{4}{119}\sqrt{14}e^{37}$	$(\frac{1}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{7}{17}, \frac{3}{17}, 0, \frac{5}{17}, \frac{4}{17})$ $+ \frac{16}{119}\sqrt{21}e^3 \otimes e_4 + \frac{8}{119}\sqrt{105}e^1 \otimes e_5$	{1239, 235689}
942:336	$0, 0, 0, 0, 0, \frac{3}{14}\sqrt{2}e^{12}, \frac{3}{14}\sqrt{2}e^{34}, \frac{1}{14}\sqrt{66}e^{13} + \frac{3}{14}\sqrt{2}e^{26},$ $\frac{1}{14}\sqrt{30}e^{16} + \frac{3}{14}\sqrt{2}e^{37}$	$(-\frac{1}{28}, \frac{1}{14}, \frac{1}{7}, -\frac{2}{7}, \frac{15}{28}, \frac{1}{28}, -\frac{1}{7}, \frac{3}{28}, 0)$ $+ \frac{1}{14}\sqrt{78}e^3 \otimes e_4 + \frac{1}{14}\sqrt{78}e^5 \otimes e_8$	{123569, 2389}
942:336	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{11}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13} + \frac{20}{37}\sqrt{2}e^{26},$ $\frac{12}{37}\sqrt{3}e^{16} + \frac{4}{37}\sqrt{2}e^{37}$	$(\frac{1}{37}, -\frac{2}{37}, -\frac{4}{37}, \frac{8}{37}, 1, -\frac{1}{37}, \frac{4}{37}, -\frac{3}{37}, 0)$ $+ \frac{8}{37}\sqrt{39}e^5 \otimes e_8$	{12345679, 135, 234789, 368}
942:336	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{890}e^{12}, \frac{1}{499}\sqrt{125490}e^{34},$ $\frac{2}{499}\sqrt{16910}e^{13} + \frac{40}{499}\sqrt{89}e^{26}, \frac{1}{499}\sqrt{50730}e^{16} + \frac{1}{499}\sqrt{20470}e^{37}$	$(\frac{65}{499}, -\frac{76}{499}, -\frac{152}{499}, \frac{358}{499}, \frac{88}{499}, -\frac{11}{499}, \frac{206}{499}, -\frac{87}{499}, \frac{54}{499})$ $+ \frac{1}{499}\sqrt{365790}e^4 \otimes e_8$	{1258, 128, 4579, 479}
942:336	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{11}e^{12}, \frac{4}{37}\sqrt{11}e^{34}, \frac{4}{37}\sqrt{62}e^{13} + \frac{4}{37}\sqrt{2}e^{26},$ $\frac{12}{37}\sqrt{3}e^{16} + \frac{20}{37}\sqrt{2}e^{37}$	$(\frac{1}{37}, \frac{42}{185}, \frac{84}{185}, -\frac{116}{185}, \frac{29}{185}, \frac{47}{185}, -\frac{32}{185}, \frac{89}{185}, \frac{52}{185})$ $+ \frac{8}{37}\sqrt{39}e^3 \otimes e_4$	{1458, 148, 456, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:336	$0, 0, 0, 0, 0, \frac{4}{949}\sqrt{24341}e^{12}, \frac{12}{949}\sqrt{303}e^{34},$ $\frac{4}{949}\sqrt{22826}e^{13} + \frac{4}{949}\sqrt{13938}e^{26}, \frac{12}{949}\sqrt{3737}e^{16} + \frac{4}{949}\sqrt{13938}e^{37}$	$(\frac{149}{949}, \frac{42}{949}, \frac{84}{949}, \frac{172}{949}, -\frac{659}{949}, \frac{191}{949}, \frac{256}{949}, \frac{233}{949}, \frac{340}{949})$ $+ \frac{8}{949}\sqrt{20301}e^1 \otimes e_5$	{123479, 136, 23456789, 358}
942:336	$0, 0, 0, 0, 0, \frac{30}{913}\sqrt{15}e^{12}, \frac{10}{913}\sqrt{1235}e^{34}, \frac{20}{913}\sqrt{215}e^{13} + \frac{30}{913}\sqrt{85}e^{26},$ $\frac{10}{913}\sqrt{645}e^{16} + \frac{30}{913}\sqrt{85}e^{37}$	$(\frac{75}{913}, -\frac{35}{913}, -\frac{70}{913}, \frac{255}{913}, -\frac{320}{913}, \frac{40}{913}, \frac{185}{913}, \frac{5}{913}, \frac{115}{913})$ $+ \frac{10}{913}\sqrt{2055}e^3 \otimes e_5 + \frac{10}{913}\sqrt{2055}e^4 \otimes e_8$	{123469, 3678}
942:336	$0, 0, 0, 0, 0, \frac{7}{157}\sqrt{74}e^{12}, \frac{6}{157}\sqrt{91}e^{34}, \frac{5}{157}\sqrt{70}e^{13} + \frac{2}{157}\sqrt{1547}e^{26},$ $\frac{2}{157}\sqrt{357}e^{16} + \frac{7}{157}\sqrt{34}e^{37}$	$(\frac{14}{157}, -\frac{7}{157}, -\frac{14}{157}, \frac{49}{157}, -\frac{56}{157}, \frac{7}{157}, \frac{35}{157}, 0, \frac{21}{157})$ $+ \frac{1}{157}\sqrt{6258}e^4 \otimes e_8 + \frac{6}{157}\sqrt{203}e^2 \otimes e_5$	{12378, 3459}
942:336	$0, 0, 0, 0, 0, \frac{212}{6103}\sqrt{89}e^{12}, \frac{53}{6103}\sqrt{1290}e^{34},$ $\frac{212}{6103}\sqrt{170}e^{13} + \frac{1060}{6103}\sqrt{2}e^{26}, \frac{371}{6103}\sqrt{30}e^{16} + \frac{53}{6103}\sqrt{938}e^{37}$	$(\frac{689}{6103}, -\frac{424}{6103}, -\frac{848}{6103}, \frac{2650}{6103}, -\frac{2120}{6103}, \frac{265}{6103}, \frac{106}{359}, -\frac{159}{6103}, \frac{954}{6103})$ $+ \frac{53}{6103}\sqrt{5214}e^4 \otimes e_8 + \frac{636}{6103}\sqrt{39}e^1 \otimes e_5$	{1289, 457}
942:336	$0, 0, 0, 0, 0, \frac{63}{2467}\sqrt{34}e^{12}, \frac{63}{2467}\sqrt{34}e^{34},$ $\frac{42}{2467}\sqrt{177}e^{13} + \frac{21}{2467}\sqrt{66}e^{26}, \frac{126}{2467}\sqrt{31}e^{16} + \frac{21}{2467}\sqrt{4326}e^{37}$	$(-\frac{84}{2467}, \frac{231}{2467}, \frac{462}{2467}, -\frac{861}{2467}, \frac{1386}{2467}, \frac{147}{2467}, -\frac{399}{2467}, \frac{378}{2467}, \frac{63}{2467})$ $+ \frac{21}{2467}\sqrt{6486}e^3 \otimes e_4 + \frac{21}{2467}\sqrt{6690}e^5 \otimes e_9$	{13567, 3578}
942:336	$0, 0, 0, 0, 0, \frac{2}{1031}\sqrt{173818}e^{12}, \frac{4}{1031}\sqrt{17158}e^{34},$ $\frac{2}{1031}\sqrt{136891}e^{13} + \frac{8}{1031}\sqrt{11190}e^{26}, \frac{2}{1031}\sqrt{15666}e^{16} + \frac{6}{1031}\sqrt{8206}e^{37}$	$(\frac{128}{1031}, \frac{85}{1031}, \frac{170}{1031}, \frac{1}{1031}, -\frac{661}{1031}, \frac{213}{1031}, \frac{171}{1031}, \frac{298}{1031}, \frac{341}{1031})$ $+ \frac{6}{1031}\sqrt{35062}e^2 \otimes e_5$	{12378, 1345689, 2367, 3459}
942:336	$0, 0, 0, 0, 0, \frac{44}{203}\sqrt{7}e^{12}, \frac{22}{203}\sqrt{82}e^{34}, \frac{22}{203}\sqrt{43}e^{13} + \frac{44}{203}\sqrt{6}e^{26},$ $\frac{44}{203}\sqrt{3}e^{16} + \frac{44}{203}\sqrt{6}e^{37}$	$(\frac{44}{203}, -\frac{11}{203}, -\frac{22}{203}, \frac{121}{203}, -\frac{121}{203}, \frac{33}{203}, \frac{99}{203}, \frac{22}{203}, \frac{11}{29})$ $+ \frac{198}{203}\sqrt{2}e^4 \otimes e_5$	{123489, 135678, 23469, 357}
942:336	$0, 0, 0, 0, 0, \frac{4}{1015}\sqrt{19342}e^{12}, \frac{4}{1015}\sqrt{19342}e^{34},$ $\frac{2}{1015}\sqrt{133867}e^{13} + \frac{4}{1015}\sqrt{6617}e^{26}, \frac{4}{203}\sqrt{1527}e^{16} + \frac{6}{1015}\sqrt{165934}e^{37}$	$(\frac{4}{1015}, -\frac{11}{1015}, -\frac{22}{1015}, \frac{41}{1015}, 1, -\frac{1}{145}, \frac{19}{1015}, -\frac{18}{1015}, -\frac{3}{1015})$ $+ \frac{2}{1015}\sqrt{418398}e^5 \otimes e_9$	{123489, 135678, 23469, 357}
942:336	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{890}e^{12}, \frac{1}{499}\sqrt{125490}e^{34},$ $\frac{2}{499}\sqrt{16910}e^{13} + \frac{1}{499}\sqrt{20470}e^{26}, \frac{1}{499}\sqrt{50730}e^{16} + \frac{40}{499}\sqrt{89}e^{37}$	$(\frac{65}{499}, \frac{61}{499}, \frac{122}{499}, -\frac{53}{499}, \frac{323}{499}, \frac{126}{499}, \frac{69}{499}, \frac{187}{499}, \frac{191}{499})$ $+ \frac{1}{499}\sqrt{365790}e^3 \otimes e_5$	{1258, 1456789, 256, 4579}
942:337	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{890}e^{12}, \frac{1}{499}\sqrt{125490}e^{34}, \frac{40}{499}\sqrt{89}e^{16},$ $\frac{2}{499}\sqrt{16910}e^{13} + \frac{1}{499}\sqrt{50730}e^{26} + \frac{1}{499}\sqrt{20470}e^{47}$	$(-\frac{152}{499}, \frac{141}{499}, \frac{282}{499}, -\frac{76}{499}, \frac{88}{499}, -\frac{11}{499}, \frac{206}{499}, -\frac{163}{499}, \frac{130}{499})$ $+ \frac{1}{499}\sqrt{365790}e^3 \otimes e_8$	{3459, 349, 3579, 379}
942:337	$0, 0, 0, 0, 0, \frac{1}{473}\sqrt{22386}e^{12}, \frac{2}{473}\sqrt{29315}e^{34}, \frac{6}{473}\sqrt{533}e^{16},$ $\frac{13}{473}\sqrt{902}e^{13} + \frac{3}{473}\sqrt{1066}e^{26} + \frac{6}{473}\sqrt{533}e^{47}$	$(-\frac{24}{473}, \frac{10}{43}, \frac{20}{43}, -\frac{12}{473}, -\frac{313}{473}, \frac{2}{11}, \frac{208}{473}, \frac{62}{473}, \frac{196}{473})$ $+ \frac{1}{473}\sqrt{418938}e^3 \otimes e_5$	{12456789, 125689, 14579, 159}
942:337	$0, 0, 0, 0, 0, \frac{8}{1027}\sqrt{742}e^{12}, \frac{2}{1027}\sqrt{27454}e^{34}, \frac{2}{1027}\sqrt{30210}e^{16},$ $\frac{2}{1027}\sqrt{27931}e^{13} + \frac{4}{1027}\sqrt{2067}e^{26} + \frac{2}{1027}\sqrt{30210}e^{47}$	$(-\frac{122}{1027}, \frac{77}{1027}, \frac{154}{1027}, -\frac{61}{1027}, \frac{145}{1027}, -\frac{45}{1027}, \frac{93}{1027}, -\frac{167}{1027}, \frac{32}{1027})$ $+ \frac{42}{1027}\sqrt{106}e^4 \otimes e_8$	{1258, 128, 14567, 1467}
942:337	$0, 0, 0, 0, 0, \frac{38}{3499}\sqrt{385}e^{12}, \frac{38}{3499}\sqrt{889}e^{34}, \frac{38}{3499}\sqrt{979}e^{16},$ $\frac{38}{3499}\sqrt{907}e^{13} + \frac{114}{3499}\sqrt{30}e^{26} + \frac{19}{3499}\sqrt{3902}e^{47}$	$(-\frac{418}{3499}, \frac{266}{3499}, \frac{532}{3499}, -\frac{209}{3499}, \frac{475}{3499}, -\frac{152}{3499}, \frac{323}{3499}, -\frac{570}{3499}, \frac{114}{3499})$ $+ \frac{19}{3499}\sqrt{42}e^5 \otimes e_9 + \frac{228}{3499}\sqrt{42}e^4 \otimes e_8$	{128, 1467}
942:337	$0, 0, 0, 0, 0, \frac{13}{319}\sqrt{142}e^{12}, \frac{13}{319}\sqrt{130}e^{34}, \frac{13}{319}\sqrt{94}e^{16},$ $\frac{13}{319}\sqrt{46}e^{13} + \frac{78}{319}\sqrt{3}e^{26} + \frac{26}{319}\sqrt{2}e^{47}$	$(-\frac{52}{319}, \frac{65}{319}, \frac{130}{319}, -\frac{26}{319}, -\frac{104}{319}, \frac{13}{319}, \frac{104}{319}, -\frac{39}{319}, \frac{78}{319})$ $+ \frac{13}{319}\sqrt{258}e^3 \otimes e_8 + \frac{91}{319}\sqrt{6}e^2 \otimes e_5$	{134569, 135679}
942:337	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{10807}e^{12}, \frac{1}{125}\sqrt{3838}e^{34}, \frac{1}{125}\sqrt{303}e^{16},$ $\frac{1}{125}\sqrt{7171}e^{13} + \frac{1}{125}\sqrt{10605}e^{26} + \frac{1}{125}\sqrt{303}e^{47}$	$(\frac{2}{125}, \frac{19}{125}, \frac{38}{125}, \frac{1}{125}, -\frac{82}{125}, \frac{21}{125}, \frac{39}{125}, \frac{23}{125}, \frac{8}{25})$ $+ \frac{3}{125}\sqrt{2323}e^2 \otimes e_5$	{123489, 123789, 134569, 135679}
942:337	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{55}e^{12}, \frac{10}{37}e^{34}, \frac{1}{37}\sqrt{105}e^{16},$ $\frac{1}{37}\sqrt{107}e^{13} + \frac{1}{37}\sqrt{15}e^{26} + \frac{1}{37}\sqrt{105}e^{47}$	$(-\frac{4}{37}, \frac{3}{37}, \frac{6}{37}, -\frac{2}{37}, 0, -\frac{1}{37}, \frac{4}{37}, -\frac{5}{37}, \frac{2}{37})$ $+ \frac{1}{37}\sqrt{29}e^2 \otimes e_5 + \frac{2}{37}\sqrt{41}e^4 \otimes e_8$	{128, 14567}
942:337	$0, 0, 0, 0, 0, \frac{2}{479}\sqrt{3395}e^{12}, \frac{2}{479}\sqrt{3395}e^{34}, \frac{10}{479}\sqrt{485}e^{16},$ $\frac{2}{479}\sqrt{29585}e^{13} + \frac{6}{479}\sqrt{2910}e^{26} + \frac{10}{479}\sqrt{80510}e^{47}$	$(\frac{22}{479}, -\frac{14}{479}, -\frac{28}{479}, \frac{11}{479}, 1, \frac{8}{479}, -\frac{17}{479}, \frac{30}{479}, -\frac{6}{479})$ $+ \frac{1}{479}\sqrt{387030}e^5 \otimes e_9$	{12345678, 123568, 13457, 135}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:337	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1190}e^{12}, \frac{4}{157}\sqrt{357}e^{34}, \frac{2}{157}\sqrt{938}e^{16},$ $\frac{5}{157}\sqrt{70}e^{13} + \frac{2}{157}\sqrt{357}e^{26} + \frac{1}{157}\sqrt{4102}e^{47}$	$(-\frac{14}{157}, \frac{21}{157}, \frac{42}{157}, -\frac{7}{157}, -\frac{56}{157}, \frac{7}{157}, \frac{35}{157}, -\frac{7}{157}, \frac{28}{157})$ $+\frac{1}{157}\sqrt{6258}e^3 \otimes e_8 + \frac{6}{157}\sqrt{203}e^4 \otimes e_5$	{12478, 1258}
942:337	$0, 0, 0, 0, 0, \frac{58}{3485}\sqrt{137}e^{12}, \frac{58}{3485}\sqrt{406}e^{34}, \frac{116}{3485}\sqrt{91}e^{16},$ $\frac{58}{3485}\sqrt{806}e^{13} + \frac{174}{3485}\sqrt{14}e^{26} + \frac{116}{3485}\sqrt{77}e^{47}$	$(-\frac{638}{3485}, \frac{406}{3485}, \frac{812}{3485}, -\frac{319}{3485}, \frac{1856}{3485}, -\frac{232}{3485}, \frac{29}{205}, -\frac{174}{697}, \frac{174}{3485})$ $+\frac{174}{3485}\sqrt{181}e^3 \otimes e_8 + \frac{58}{3485}\sqrt{1461}e^5 \otimes e_9$	{2349, 2379}
942:337	$0, 0, 0, 0, 0, \frac{28}{1513}\sqrt{111}e^{12}, \frac{7}{1513}\sqrt{4398}e^{34}, \frac{42}{1513}\sqrt{129}e^{16},$ $\frac{98}{1513}\sqrt{21}e^{13} + \frac{14}{1513}\sqrt{330}e^{26} + \frac{42}{1513}\sqrt{129}e^{47}$	$(-\frac{182}{1513}, \frac{126}{1513}, \frac{252}{1513}, -\frac{91}{1513}, \frac{105}{1513}, -\frac{56}{1513}, \frac{161}{1513}, -\frac{14}{89}, \frac{70}{1513})$ $+\frac{14}{1513}\sqrt{1821}e^4 \otimes e_8 + \frac{7}{1513}\sqrt{582}e^3 \otimes e_5$	{1258, 14567}
942:337	$0, 0, 0, 0, 0, \frac{4}{1031}\sqrt{17158}e^{12}, \frac{2}{1031}\sqrt{173818}e^{34}, \frac{6}{1031}\sqrt{8206}e^{16},$ $\frac{2}{1031}\sqrt{136891}e^{13} + \frac{2}{1031}\sqrt{15666}e^{26} + \frac{8}{1031}\sqrt{11190}e^{47}$	$(\frac{170}{1031}, \frac{43}{1031}, \frac{86}{1031}, \frac{85}{1031}, -\frac{661}{1031}, \frac{213}{1031}, \frac{171}{1031}, \frac{383}{1031}, \frac{256}{1031})$ $+\frac{6}{1031}\sqrt{35062}e^4 \otimes e_5$	{12478, 1258, 1467, 156}
942:337	$0, 0, 0, 0, 0, \frac{50}{913}\sqrt{22}e^{12}, \frac{50}{913}\sqrt{22}e^{34}, \frac{50}{913}\sqrt{58}e^{16},$ $\frac{20}{913}\sqrt{215}e^{13} + \frac{10}{913}\sqrt{645}e^{26} + \frac{40}{913}\sqrt{5}e^{47}$	$(-\frac{70}{913}, \frac{10}{83}, \frac{20}{83}, -\frac{35}{913}, -\frac{320}{913}, \frac{40}{913}, \frac{185}{913}, -\frac{30}{913}, \frac{150}{913})$ $+\frac{10}{913}\sqrt{2055}e^1 \otimes e_5 + \frac{10}{913}\sqrt{2055}e^3 \otimes e_8$	{3459, 3579}
942:337	$0, 0, 0, 0, 0, \frac{4}{125}\sqrt{298}e^{12}, \frac{4}{125}\sqrt{298}e^{34}, \frac{2}{125}\sqrt{3874}e^{16},$ $\frac{1}{125}\sqrt{7003}e^{13} + \frac{1}{125}\sqrt{2235}e^{26} + \frac{1}{125}\sqrt{5513}e^{47}$	$(-\frac{4}{25}, \frac{16}{125}, \frac{32}{125}, -\frac{2}{25}, 1, -\frac{4}{125}, \frac{22}{125}, -\frac{24}{125}, \frac{12}{125})$ $+\frac{1}{125}\sqrt{29949}e^5 \otimes e_8$	{12478, 128, 14567, 156}
942:337	$0, 0, 0, 0, 0, \frac{1}{499}\sqrt{125490}e^{12}, \frac{2}{499}\sqrt{890}e^{34}, \frac{40}{499}\sqrt{89}e^{16},$ $\frac{2}{499}\sqrt{16910}e^{13} + \frac{1}{499}\sqrt{50730}e^{26} + \frac{1}{499}\sqrt{20470}e^{47}$	$(\frac{122}{499}, \frac{4}{499}, \frac{8}{499}, \frac{61}{499}, -\frac{323}{499}, \frac{126}{499}, \frac{69}{499}, \frac{248}{499}, \frac{130}{499})$ $+\frac{1}{499}\sqrt{365790}e^1 \otimes e_5$	{2345689, 2356789, 3459, 3579}
942:337	$0, 0, 0, 0, 0, \frac{13}{5575}\sqrt{2530}e^{12}, \frac{182}{5575}\sqrt{22}e^{34}, \frac{208}{5575}\sqrt{22}e^{16},$ $\frac{26}{5575}\sqrt{1006}e^{13} + \frac{13}{5575}\sqrt{1722}e^{26} + \frac{13}{5575}\sqrt{4886}e^{47}$	$(-\frac{286}{5575}, \frac{52}{1115}, \frac{104}{1115}, -\frac{143}{5575}, -\frac{91}{1115}, -\frac{26}{5575}, \frac{377}{5575}, -\frac{312}{5575}, \frac{234}{5575})$ $+\frac{13}{5575}\sqrt{2238}e^1 \otimes e_5 + \frac{52}{5575}\sqrt{474}e^4 \otimes e_8$	{128, 1467}
942:338	$0, 0, 0, 0, 0, \frac{2}{693}\sqrt{21910}e^{12}, \frac{2}{693}\sqrt{80754}e^{34},$ $\frac{2}{77}\sqrt{313}e^{13} + \frac{2}{693}\sqrt{25979}e^{26}, \frac{2}{693}\sqrt{12207}e^{16} + \frac{4}{693}\sqrt{19093}e^{47}$	$(\frac{179}{693}, -\frac{8}{231}, -\frac{16}{693}, \frac{191}{693}, \frac{145}{231}, \frac{155}{693}, \frac{13}{63}, \frac{131}{693}, \frac{334}{693})$ $+\frac{4}{693}\sqrt{44133}e^4 \otimes e_5$	{134689, 1356789, 349, 3579}
942:338	$0, 0, 0, 0, 0, \frac{10}{273}\sqrt{3}e^{12}, \frac{30}{91}e^{34}, \frac{10}{273}\sqrt{59}e^{13} + \frac{10}{39}\sqrt{2}e^{26},$ $\frac{10}{273}\sqrt{51}e^{16} + \frac{5}{273}\sqrt{614}e^{47}$	$(\frac{10}{91}, -\frac{10}{91}, -\frac{20}{91}, \frac{15}{91}, \frac{5}{13}, 0, -\frac{5}{91}, -\frac{10}{91}, \frac{10}{91})$ $+\frac{20}{91}\sqrt{7}e^4 \otimes e_8 + \frac{5}{273}\sqrt{430}e^5 \otimes e_9$	{123469, 23789}
942:338	$0, 0, 0, 0, 0, \frac{1}{1647}\sqrt{25690}e^{12}, \frac{2}{1647}\sqrt{355990}e^{34},$ $\frac{1}{1647}\sqrt{1772610}e^{13} + \frac{1}{1647}\sqrt{113770}e^{26}, \frac{8}{1647}\sqrt{5505}e^{16} + \frac{10}{1647}\sqrt{4771}e^{47}$	$(-\frac{10}{549}, \frac{388}{1647}, \frac{776}{1647}, -\frac{224}{1647}, -\frac{353}{549}, \frac{358}{1647}, \frac{184}{549}, \frac{746}{1647}, \frac{328}{1647})$ $+\frac{1}{1647}\sqrt{4965510}e^3 \otimes e_5$	{14578, 158, 4567, 56}
942:338	$0, 0, 0, 0, 0, \frac{5}{1713}\sqrt{79286}e^{12}, \frac{2}{1713}\sqrt{173609}e^{34},$ $\frac{2}{1713}\sqrt{315777}e^{13} + \frac{2}{1713}\sqrt{501689}e^{26}, \frac{1}{571}\sqrt{8202}e^{16} + \frac{1}{1713}\sqrt{298006}e^{47}$	$(\frac{64}{1713}, \frac{254}{1713}, \frac{508}{1713}, -\frac{21}{571}, -\frac{371}{571}, \frac{106}{571}, \frac{445}{1713}, \frac{572}{1713}, \frac{382}{1713})$ $+\frac{1}{571}\sqrt{429238}e^2 \otimes e_5$	{1345689, 1356789, 3459, 3579}
942:338	$0, 0, 0, 0, 0, \frac{10}{593}\sqrt{122}e^{12}, \frac{40}{593}\sqrt{26}e^{34}, \frac{10}{593}\sqrt{534}e^{13} + \frac{20}{593}\sqrt{127}e^{26},$ $\frac{20}{593}\sqrt{69}e^{16} + \frac{70}{593}\sqrt{14}e^{47}$	$(\frac{130}{593}, -\frac{80}{593}, -\frac{160}{593}, \frac{170}{593}, -\frac{70}{593}, \frac{50}{593}, \frac{10}{593}, -\frac{30}{593}, \frac{180}{593})$ $+\frac{10}{593}\sqrt{590}e^1 \otimes e_5 + \frac{80}{593}\sqrt{23}e^4 \otimes e_8$	{128, 24567}
942:338	$0, 0, 0, 0, 0, \frac{24}{661}\sqrt{5}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{13} + \frac{2}{661}\sqrt{1205}e^{26},$ $\frac{2}{661}\sqrt{55}e^{16} + \frac{8}{661}\sqrt{70}e^{47}$	$(-\frac{5}{661}, -\frac{4}{661}, -\frac{8}{661}, -\frac{3}{661}, \frac{77}{661}, -\frac{9}{661}, -\frac{11}{661}, -\frac{13}{661}, -\frac{14}{661})$ $+\frac{20}{661}\sqrt{14}e^4 \otimes e_8 + \frac{8}{661}\sqrt{95}e^2 \otimes e_9$	{1356789, 136789, 3459, 349}
942:338	$0, 0, 0, 0, 0, \frac{24}{661}\sqrt{5}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{13} + \frac{2}{661}\sqrt{1205}e^{26},$ $\frac{2}{661}\sqrt{55}e^{16} + \frac{8}{661}\sqrt{70}e^{47}$	$(-\frac{5}{661}, -\frac{4}{661}, -\frac{8}{661}, -\frac{3}{661}, \frac{77}{661}, -\frac{9}{661}, -\frac{11}{661}, -\frac{13}{661}, -\frac{14}{661})$ $+\frac{20}{661}\sqrt{14}e^4 \otimes e_8 - \frac{8}{661}\sqrt{95}e^2 \otimes e_9$	{1356789, 136789, 3459, 349}
942:338	$0, 0, 0, 0, 0, \frac{28}{387}\sqrt{3}e^{12}, \frac{7}{1935}\sqrt{4630}e^{34},$ $\frac{14}{1935}\sqrt{1365}e^{13} + \frac{14}{1935}\sqrt{1010}e^{26}, \frac{14}{129}\sqrt{5}e^{16} + \frac{14}{1935}\sqrt{1465}e^{47}$	$(\frac{14}{129}, -\frac{98}{1935}, -\frac{196}{1935}, \frac{259}{1935}, -\frac{49}{215}, \frac{112}{1935}, \frac{7}{215}, \frac{14}{1935}, \frac{322}{1935})$ $+\frac{14}{1935}\sqrt{2805}e^4 \otimes e_8 + \frac{7}{1935}\sqrt{6270}e^3 \otimes e_5$	{123469, 23789}
942:338	$0, 0, 0, 0, 0, \frac{40}{3429}\sqrt{174}e^{12}, \frac{20}{3429}\sqrt{6322}e^{34},$ $\frac{10}{3429}\sqrt{23577}e^{13} + \frac{10}{3429}\sqrt{34829}e^{26}, \frac{10}{3429}\sqrt{28623}e^{16} + \frac{80}{3429}\sqrt{667}e^{47}$	$(\frac{265}{1143}, -\frac{580}{3429}, -\frac{1160}{3429}, \frac{1085}{3429}, \frac{175}{1143}, \frac{215}{3429}, -\frac{25}{1143}, -\frac{365}{3429}, \frac{1010}{3429})$ $+\frac{220}{3429}\sqrt{174}e^4 \otimes e_8$	{1234569, 123469, 235789, 23789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:338	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{35}e^{12}, \frac{4}{67}\sqrt{35}e^{34}, \frac{2}{67}\sqrt{805}e^{13} + \frac{2}{67}\sqrt{665}e^{26},$ $\frac{2}{67}\sqrt{455}e^{16} + \frac{4}{67}\sqrt{70}e^{47}$	$(\frac{5}{67}, -\frac{4}{67}, -\frac{8}{67}, \frac{7}{67}, 1, \frac{1}{67}, -\frac{1}{67}, -\frac{3}{67}, \frac{6}{67})$ $+ \frac{28}{67}\sqrt{10}e^5 \otimes e_8$	{13457, 135, 34678, 368}
942:338	$0, 0, 0, 0, 0, \frac{5}{151}\sqrt{42}e^{12}, \frac{60}{1057}\sqrt{21}e^{34}, \frac{10}{1057}\sqrt{154}e^{13} + \frac{20}{1057}\sqrt{357}e^{26},$ $\frac{5}{1057}\sqrt{2954}e^{16} + \frac{10}{151}\sqrt{86}e^{47}$	$(\frac{20}{151}, -\frac{10}{151}, -\frac{20}{151}, \frac{25}{151}, -\frac{35}{151}, \frac{10}{151}, \frac{5}{151}, 0, \frac{30}{151})$ $+ \frac{10}{1057}\sqrt{2002}e^4 \otimes e_8 + \frac{5}{1057}\sqrt{5110}e^2 \otimes e_5$	{128, 2467}
942:339	$0, 0, 0, 0, 0, \frac{2}{1227}\sqrt{2264178}e^{12}, \frac{4}{3681}\sqrt{77221}e^{34}, \frac{2}{3681}\sqrt{2363254}e^{16},$ $\frac{2}{1227}\sqrt{158813}e^{15} + \frac{4}{3681}\sqrt{74307}e^{26} + \frac{2}{3681}\sqrt{884399}e^{37}$	$(\frac{1486}{3681}, -\frac{238}{1227}, -\frac{61}{1227}, \frac{424}{3681}, -\frac{476}{1227}, \frac{772}{3681}, \frac{241}{3681}, \frac{2258}{3681}, \frac{58}{3681})$ $+ \frac{2}{3681}\sqrt{4436565}e^1 \otimes e_5$	{12378, 128, 1367, 16}
942:339	$0, 0, 0, 0, 0, \frac{2}{207}\sqrt{1162}e^{12}, \frac{1}{207}\sqrt{11454}e^{34}, \frac{1}{69}\sqrt{1826}e^{16},$ $\frac{2}{207}\sqrt{2158}e^{15} + \frac{2}{207}\sqrt{1577}e^{26} + \frac{1}{69}\sqrt{1826}e^{37}$	$(-\frac{43}{207}, \frac{14}{69}, \frac{13}{69}, -\frac{37}{207}, \frac{28}{69}, -\frac{1}{207}, \frac{2}{207}, -\frac{44}{207}, \frac{41}{207})$ $+ \frac{5}{207}\sqrt{1162}e^3 \otimes e_8$	{128, 1367, 246789, 349}
942:339	$0, 0, 0, 0, 0, \frac{134}{9925}\sqrt{1435}e^{12}, \frac{201}{9925}\sqrt{86}e^{34}, \frac{67}{9925}\sqrt{6254}e^{16},$ $\frac{134}{9925}\sqrt{1103}e^{15} + \frac{67}{9925}\sqrt{1542}e^{26} + \frac{67}{9925}\sqrt{5106}e^{37}$	$(\frac{2613}{9925}, -\frac{938}{9925}, \frac{1742}{9925}, -\frac{2747}{9925}, -\frac{1876}{9925}, \frac{67}{9925}, \frac{397}{9925}, -\frac{201}{1985}, \frac{4288}{9925}, \frac{737}{9925})$ $+ \frac{469}{9925}\sqrt{214}e^1 \otimes e_5 + \frac{67}{9925}\sqrt{7042}e^3 \otimes e_4$	{12378, 1367}
942:339	$0, 0, 0, 0, 0, \frac{77}{9301}\sqrt{30}e^{12}, \frac{924}{9301}\sqrt{5}e^{34}, \frac{154}{9301}\sqrt{939}e^{16},$ $\frac{231}{9301}\sqrt{230}e^{15} + \frac{308}{9301}\sqrt{146}e^{26} + \frac{77}{9301}\sqrt{3342}e^{37}$	$(-\frac{1848}{9301}, \frac{2233}{9301}, \frac{2849}{9301}, -\frac{3080}{9301}, \frac{4466}{9301}, \frac{385}{9301}, -\frac{231}{9301}, -\frac{1463}{9301}, \frac{2618}{9301})$ $+ \frac{1540}{9301}\sqrt{19}e^3 \otimes e_4 + \frac{77}{9301}\sqrt{8842}e^5 \otimes e_8$	{13567, 4579}
942:339	$0, 0, 0, 0, 0, \frac{1}{351}\sqrt{11370}e^{12}, \frac{2}{351}\sqrt{3790}e^{34}, \frac{14}{351}\sqrt{379}e^{16},$ $\frac{1}{351}\sqrt{79590}e^{15} + \frac{4}{351}\sqrt{2274}e^{26} + \frac{1}{351}\sqrt{758}e^{37}$	$(-\frac{128}{351}, \frac{41}{117}, \frac{1}{9}, \frac{40}{351}, \frac{82}{117}, -\frac{5}{351}, \frac{79}{351}, -\frac{133}{351}, \frac{118}{351})$ $+ \frac{1}{351}\sqrt{220578}e^5 \otimes e_8$	{13489, 14789, 3678, 68}
942:339	$0, 0, 0, 0, 0, \frac{13}{697}\sqrt{366}e^{12}, \frac{13}{697}\sqrt{247}e^{34}, \frac{13}{697}\sqrt{602}e^{16},$ $\frac{13}{1394}\sqrt{1190}e^{15} + \frac{13}{1394}\sqrt{458}e^{26} + \frac{13}{1394}\sqrt{746}e^{37}$	$(\frac{65}{697}, -\frac{52}{697}, -\frac{143}{697}, \frac{247}{697}, -\frac{104}{697}, \frac{13}{697}, \frac{104}{697}, \frac{78}{697}, -\frac{39}{697})$ $+ \frac{13}{1394}\sqrt{2374}e^4 \otimes e_8 + \frac{13}{697}\sqrt{653}e^1 \otimes e_5$	{12378, 128}
942:339	$0, 0, 0, 0, 0, \frac{2}{1203}\sqrt{92442}e^{12}, \frac{2}{3609}\sqrt{506230}e^{34}, \frac{2}{3609}\sqrt{1019063}e^{16},$ $\frac{4}{3609}\sqrt{244311}e^{15} + \frac{2}{3609}\sqrt{561255}e^{26} + \frac{4}{3609}\sqrt{790159}e^{37}$	$(\frac{293}{3609}, \frac{63}{401}, \frac{1943}{3609}, -\frac{2459}{3609}, \frac{126}{401}, \frac{860}{3609}, -\frac{172}{1203}, \frac{1153}{3609}, \frac{1427}{3609})$ $+ \frac{2}{3609}\sqrt{6424719}e^3 \otimes e_4$	{12378, 1367, 246789, 479}
942:339	$0, 0, 0, 0, 0, \frac{8}{933}\sqrt{2514}e^{12}, \frac{2}{933}\sqrt{130309}e^{34}, \frac{4}{933}\sqrt{38967}e^{16},$ $\frac{1}{933}\sqrt{193578}e^{15} + \frac{1}{311}\sqrt{12570}e^{26} + \frac{1}{933}\sqrt{198606}e^{37}$	$(-\frac{60}{311}, \frac{48}{311}, -\frac{257}{933}, \frac{2}{3}, \frac{96}{311}, -\frac{12}{311}, \frac{365}{933}, -\frac{72}{311}, \frac{36}{311})$ $+ \frac{13}{311}\sqrt{838}e^4 \otimes e_8$	{12378, 128, 349, 479}
942:339	$0, 0, 0, 0, 0, \frac{4}{225}\sqrt{35}e^{12}, \frac{1}{225}\sqrt{470}e^{34}, \frac{1}{225}\sqrt{1070}e^{16},$ $\frac{2}{225}\sqrt{155}e^{15} + \frac{2}{225}\sqrt{85}e^{26} + \frac{1}{225}\sqrt{790}e^{37}$	$(\frac{1}{45}, 0, \frac{1}{15}, -\frac{1}{9}, 0, \frac{1}{45}, -\frac{2}{45}, \frac{2}{45}, \frac{1}{45})$ $+ \frac{1}{225}\sqrt{1190}e^3 \otimes e_8 + \frac{2}{225}\sqrt{210}e^1 \otimes e_5$	{128, 1367}
942:340	$0, 0, 0, 0, 0, \frac{1}{405}\sqrt{7854}e^{12}, \frac{2}{405}\sqrt{14773}e^{34}, \frac{2}{405}\sqrt{14773}e^{16},$ $\frac{1}{405}\sqrt{25806}e^{26} + \frac{1}{405}\sqrt{25806}e^{35} + \frac{1}{405}\sqrt{67694}e^{47}$	$(-\frac{116}{405}, \frac{37}{135}, -\frac{26}{405}, \frac{22}{135}, \frac{44}{135}, -\frac{81}{81}, \frac{8}{81}, -\frac{121}{405}, \frac{106}{405})$ $+ \frac{2}{135}\sqrt{3553}e^4 \otimes e_8$	{1258, 14567, 2356789, 3459}
942:340	$0, 0, 0, 0, 0, \frac{11}{1917}\sqrt{290}e^{12}, \frac{2}{1917}\sqrt{149930}e^{34}, \frac{28}{1917}\sqrt{3190}e^{16},$ $\frac{145}{1917}\sqrt{66}e^{26} + \frac{1}{1917}\sqrt{2746590}e^{35} + \frac{1}{1917}\sqrt{137170}e^{47}$	$(-\frac{586}{1917}, \frac{211}{639}, -\frac{376}{1917}, \frac{176}{639}, \frac{352}{639}, \frac{47}{1917}, \frac{152}{1917}, -\frac{539}{1917}, \frac{680}{1917})$ $+ \frac{10}{213}\sqrt{638}e^5 \otimes e_8$	{1248, 1278, 2346789, 23689}
942:340	$0, 0, 0, 0, 0, \frac{168}{4685}\sqrt{6}e^{12}, \frac{98}{4685}\sqrt{17}e^{34}, \frac{14}{4685}\sqrt{1651}e^{16},$ $\frac{28}{4685}\sqrt{67}e^{26} + \frac{14}{4685}\sqrt{141}e^{35} + \frac{28}{4685}\sqrt{401}e^{47}$	$(\frac{77}{4685}, -\frac{49}{4685}, -\frac{427}{4685}, \frac{203}{4685}, \frac{406}{4685}, \frac{28}{4685}, -\frac{224}{4685}, \frac{21}{937}, -\frac{21}{4685})$ $- \frac{14}{4685}\sqrt{2045}e^1 \otimes e_9 + \frac{14}{4685}\sqrt{2093}e^4 \otimes e_8$	{128, 1467, 236789, 349}
942:340	$0, 0, 0, 0, 0, \frac{168}{4685}\sqrt{6}e^{12}, \frac{98}{4685}\sqrt{17}e^{34}, \frac{14}{4685}\sqrt{1651}e^{16},$ $\frac{28}{4685}\sqrt{67}e^{26} + \frac{14}{4685}\sqrt{141}e^{35} + \frac{28}{4685}\sqrt{401}e^{47}$	$(\frac{77}{4685}, -\frac{49}{4685}, -\frac{427}{4685}, \frac{203}{4685}, \frac{406}{4685}, \frac{28}{4685}, -\frac{224}{4685}, \frac{21}{937}, -\frac{21}{4685})$ $+ \frac{14}{4685}\sqrt{2045}e^1 \otimes e_9 + \frac{14}{4685}\sqrt{2093}e^4 \otimes e_8$	{128, 1467, 236789, 349}
942:340	$0, 0, 0, 0, 0, \frac{196}{3855}\sqrt{51}e^{12}, \frac{49}{11565}\sqrt{8998}e^{34}, \frac{49}{11565}\sqrt{6238}e^{16},$ $\frac{98}{3855}\sqrt{69}e^{26} + \frac{98}{11565}\sqrt{966}e^{35} + \frac{49}{11565}\sqrt{7526}e^{47}$	$(-\frac{2303}{11565}, \frac{686}{3855}, \frac{2107}{11565}, -\frac{49}{3855}, -\frac{98}{3855}, -\frac{49}{2313}, \frac{392}{2313}, -\frac{2548}{11565}, \frac{1813}{11565})$ $+ \frac{49}{11565}\sqrt{13782}e^4 \otimes e_8 + \frac{98}{2313}\sqrt{69}e^3 \otimes e_5$	{1258, 14567}
942:340	$0, 0, 0, 0, 0, \frac{1}{507}\sqrt{21170}e^{12}, \frac{2}{507}\sqrt{21170}e^{34}, \frac{20}{507}\sqrt{365}e^{16},$ $\frac{1}{507}\sqrt{67890}e^{26} + \frac{1}{507}\sqrt{116070}e^{35} + \frac{1}{507}\sqrt{5110}e^{47}$	$(-\frac{142}{507}, \frac{151}{507}, \frac{232}{507}, -\frac{12}{169}, -\frac{24}{169}, \frac{3}{196}, \frac{196}{507}, -\frac{133}{507}, \frac{160}{507})$ $+ \frac{10}{507}\sqrt{3066}e^3 \otimes e_8$	{12478, 128, 349, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:340	$0, 0, 0, 0, 0, \frac{7}{1355}\sqrt{1102}e^{12}, \frac{7}{1355}\sqrt{406}e^{34}, \frac{14}{1355}\sqrt{474}e^{16},$ $\frac{14}{1355}\sqrt{67}e^{26} + \frac{7}{1355}\sqrt{1534}e^{35} + \frac{14}{1355}\sqrt{170}e^{47}$	$(\frac{77}{1355}, -\frac{49}{1355}, \frac{203}{1355}, -\frac{112}{1355}, -\frac{224}{1355}, \frac{28}{1355}, \frac{91}{1355}, \frac{21}{271}, -\frac{21}{1355})$ $+ \frac{14}{1355}\sqrt{667}e^1 \otimes e_9 + \frac{7}{1355}\sqrt{2114}e^3 \otimes e_8$	{12478, 128, 349, 379}
942:340	$0, 0, 0, 0, 0, \frac{7}{1355}\sqrt{1102}e^{12}, \frac{7}{1355}\sqrt{406}e^{34}, \frac{14}{1355}\sqrt{474}e^{16},$ $\frac{14}{1355}\sqrt{67}e^{26} + \frac{7}{1355}\sqrt{1534}e^{35} + \frac{14}{1355}\sqrt{170}e^{47}$	$(\frac{77}{1355}, -\frac{49}{1355}, \frac{203}{1355}, -\frac{112}{1355}, -\frac{224}{1355}, \frac{28}{1355}, \frac{91}{1355}, \frac{21}{271}, -\frac{21}{1355})$ $- \frac{14}{1355}\sqrt{667}e^1 \otimes e_9 + \frac{7}{1355}\sqrt{2114}e^3 \otimes e_8$	{12478, 128, 349, 379}
942:340	$0, 0, 0, 0, 0, \frac{28}{5603}\sqrt{1149}e^{12}, \frac{224}{5603}\sqrt{7}e^{34}, \frac{28}{5603}\sqrt{1990}e^{16},$ $\frac{28}{5603}\sqrt{367}e^{26} + \frac{28}{5603}\sqrt{1930}e^{35} + \frac{56}{5603}\sqrt{157}e^{47}$	$(\frac{308}{5603}, -\frac{196}{5603}, -\frac{896}{5603}, \frac{406}{5603}, \frac{812}{5603}, \frac{112}{5603}, -\frac{490}{5603}, \frac{420}{5603}, -\frac{84}{5603})$ $+ \frac{28}{5603}\sqrt{2861}e^1 \otimes e_9 + \frac{392}{5603}\sqrt{11}e^5 \otimes e_8$	{134567, 1356, 459, 579}
942:340	$0, 0, 0, 0, 0, \frac{28}{5603}\sqrt{1149}e^{12}, \frac{224}{5603}\sqrt{7}e^{34}, \frac{28}{5603}\sqrt{1990}e^{16},$ $\frac{28}{5603}\sqrt{367}e^{26} + \frac{28}{5603}\sqrt{1930}e^{35} + \frac{56}{5603}\sqrt{157}e^{47}$	$(\frac{308}{5603}, -\frac{196}{5603}, -\frac{896}{5603}, \frac{406}{5603}, \frac{812}{5603}, \frac{112}{5603}, -\frac{490}{5603}, \frac{420}{5603}, -\frac{84}{5603})$ $- \frac{28}{5603}\sqrt{2861}e^1 \otimes e_9 + \frac{392}{5603}\sqrt{11}e^5 \otimes e_8$	{134567, 1356, 459, 579}
942:340	$0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{635970}e^{12}, \frac{20}{3969}\sqrt{35989}e^{34}, \frac{2}{3969}\sqrt{448630}e^{16},$ $\frac{4}{3969}\sqrt{140505}e^{26} + \frac{2}{3969}\sqrt{1013115}e^{35} + \frac{58}{3969}\sqrt{935}e^{47}$	$(\frac{334}{3969}, \frac{32}{441}, \frac{2920}{3969}, -\frac{335}{1323}, -\frac{670}{1323}, \frac{622}{3969}, \frac{1915}{3969}, \frac{956}{3969}, \frac{130}{567})$ $+ \frac{10}{1323}\sqrt{35003}e^3 \otimes e_5$	{245678, 2568, 457, 5}
942:341	$0, 0, 0, 0, 0, \frac{4}{679}\sqrt{1030}e^{12}, \frac{1}{2037}\sqrt{699370}e^{34},$ $\frac{9}{679}\sqrt{1030}e^{15} + \frac{1}{679}\sqrt{75190}e^{26}, \frac{1}{2037}\sqrt{682890}e^{16} + \frac{10}{679}\sqrt{1030}e^{37}$	$(\frac{125}{679}, -\frac{72}{679}, \frac{458}{2037}, \frac{382}{2037}, -\frac{144}{2037}, \frac{53}{679}, \frac{76}{2037}, -\frac{19}{679}, \frac{178}{679})$ $+ \frac{10}{2037}\sqrt{17922}e^3 \otimes e_8$	{1234569, 1357, 245789, 568}
942:341	$0, 0, 0, 0, 0, \frac{52}{319}\sqrt{6}e^{12}, \frac{13}{319}\sqrt{130}e^{34}, \frac{13}{319}\sqrt{46}e^{15} + \frac{13}{319}\sqrt{94}e^{26},$ $\frac{13}{319}\sqrt{62}e^{16} + \frac{26}{319}\sqrt{2}e^{37}$	$(\frac{65}{319}, -\frac{52}{319}, -\frac{26}{319}, \frac{130}{319}, -\frac{104}{319}, \frac{13}{319}, \frac{104}{319}, -\frac{39}{319}, \frac{78}{319})$ $+ \frac{26}{319}\sqrt{62}e^1 \otimes e_5 + \frac{52}{319}\sqrt{19}e^4 \otimes e_8$	{13678, 168}
942:341	$0, 0, 0, 0, 0, \frac{2}{661}\sqrt{465}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{15} + \frac{8}{661}\sqrt{70}e^{26},$ $\frac{2}{661}\sqrt{310}e^{16} + \frac{2}{661}\sqrt{1205}e^{37}$	$(-\frac{5}{661}, \frac{13}{661}, \frac{31}{661}, -\frac{59}{661}, \frac{26}{661}, \frac{8}{661}, -\frac{28}{661}, \frac{21}{661}, \frac{3}{661})$ $- \frac{2}{661}\sqrt{1265}e^2 \otimes e_9 + \frac{2}{661}\sqrt{1655}e^3 \otimes e_8$	{128, 146789, 2367, 349}
942:341	$0, 0, 0, 0, 0, \frac{2}{661}\sqrt{465}e^{12}, \frac{4}{661}\sqrt{170}e^{34}, \frac{2}{661}\sqrt{255}e^{15} + \frac{8}{661}\sqrt{70}e^{26},$ $\frac{2}{661}\sqrt{310}e^{16} + \frac{2}{661}\sqrt{1205}e^{37}$	$(-\frac{5}{661}, \frac{13}{661}, \frac{31}{661}, -\frac{59}{661}, \frac{26}{661}, \frac{8}{661}, -\frac{28}{661}, \frac{21}{661}, \frac{3}{661})$ $+ \frac{2}{661}\sqrt{1265}e^2 \otimes e_9 + \frac{2}{661}\sqrt{1655}e^3 \otimes e_8$	{128, 146789, 2367, 349}
942:341	$0, 0, 0, 0, 0, \frac{28}{1205}\sqrt{89}e^{12}, \frac{28}{1205}\sqrt{238}e^{34},$ $\frac{14}{1205}\sqrt{1622}e^{15} + \frac{14}{1205}\sqrt{462}e^{26}, \frac{28}{1205}\sqrt{38}e^{16} + \frac{14}{1205}\sqrt{890}e^{37}$	$(-\frac{28}{241}, \frac{112}{1205}, -\frac{322}{1205}, \frac{476}{1205}, \frac{224}{1205}, -\frac{28}{1205}, \frac{154}{1205}, \frac{84}{1205}, -\frac{168}{1205})$ $+ \frac{14}{1205}\sqrt{2302}e^4 \otimes e_8 + \frac{28}{1205}\sqrt{491}e^5 \otimes e_9$	{35678, 568}
942:341	$0, 0, 0, 0, 0, \frac{76}{1759}\sqrt{55}e^{12}, \frac{19}{1759}\sqrt{1562}e^{34},$ $\frac{19}{1759}\sqrt{2046}e^{15} + \frac{19}{1759}\sqrt{1606}e^{26}, \frac{627}{1759}\sqrt{2}e^{16} + \frac{76}{1759}\sqrt{143}e^{37}$	$(\frac{209}{1759}, -\frac{76}{1759}, \frac{418}{1759}, -\frac{494}{1759}, -\frac{152}{1759}, \frac{133}{1759}, -\frac{76}{1759}, \frac{57}{1759}, \frac{342}{1759})$ $+ \frac{76}{1759}\sqrt{257}e^3 \otimes e_8 + \frac{76}{1759}\sqrt{73}e^1 \otimes e_5$	{1234569, 1357}
942:341	$0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{448630}e^{12}, \frac{2}{3969}\sqrt{635970}e^{34},$ $\frac{4}{3969}\sqrt{140505}e^{15} + \frac{58}{3969}\sqrt{935}e^{26}, \frac{2}{3969}\sqrt{1013115}e^{16} + \frac{20}{3969}\sqrt{35989}e^{37}$	$(\frac{775}{3969}, \frac{13}{189}, \frac{2251}{3969}, -\frac{893}{1323}, \frac{26}{189}, \frac{1048}{3969}, -\frac{428}{3969}, \frac{1321}{3969}, \frac{1823}{3969})$ $+ \frac{10}{1323}\sqrt{35003}e^3 \otimes e_4$	{12378, 146789, 2367, 479}
942:341	$0, 0, 0, 0, 0, \frac{73}{12105}\sqrt{926}e^{12}, \frac{73}{12105}\sqrt{870}e^{34},$ $\frac{146}{12105}\sqrt{1347}e^{15} + \frac{73}{12105}\sqrt{1282}e^{26}, \frac{146}{12105}\sqrt{267}e^{16} + \frac{73}{12105}\sqrt{7714}e^{37}$	$(-\frac{292}{2421}, \frac{803}{4035}, \frac{1606}{12105}, -\frac{1241}{4035}, \frac{1606}{4035}, \frac{949}{12105}, -\frac{2117}{12105}, \frac{3358}{12105}, -\frac{511}{12105})$ $+ \frac{73}{12105}\sqrt{12414}e^5 \otimes e_9 + \frac{73}{12105}\sqrt{9186}e^3 \otimes e_4$	{14789, 4679}
942:341	$0, 0, 0, 0, 0, \frac{28}{1917}\sqrt{3190}e^{12}, \frac{11}{639}\sqrt{290}e^{34},$ $\frac{145}{1917}\sqrt{66}e^{15} + \frac{1}{1917}\sqrt{137170}e^{26}, \frac{1}{1917}\sqrt{2746590}e^{16} + \frac{2}{1917}\sqrt{149930}e^{37}$	$(\frac{707}{1917}, -\frac{148}{639}, \frac{386}{1917}, \frac{22}{213}, -\frac{296}{639}, \frac{263}{1917}, \frac{584}{1917}, -\frac{181}{1917}, \frac{970}{1917})$ $+ \frac{10}{213}\sqrt{638}e^1 \otimes e_5$	{12379, 129, 1346, 1467}
942:341	$0, 0, 0, 0, 0, \frac{68}{9661}\sqrt{105}e^{12}, \frac{17}{9661}\sqrt{4466}e^{34},$ $\frac{68}{9661}\sqrt{439}e^{15} + \frac{51}{9661}\sqrt{358}e^{26}, \frac{34}{9661}\sqrt{823}e^{16} + \frac{17}{9661}\sqrt{7538}e^{37}$	$(-\frac{34}{9661}, \frac{221}{9661}, \frac{697}{9661}, -\frac{1241}{9661}, \frac{442}{9661}, \frac{187}{9661}, -\frac{544}{9661}, \frac{408}{9661}, \frac{153}{9661})$ $+ \frac{17}{9661}\sqrt{11414}e^3 \otimes e_8 + \frac{34}{9661}\sqrt{1481}e^5 \otimes e_9$	{1357, 568}
942:341	$0, 0, 0, 0, 0, \frac{142}{8541}\sqrt{1141}e^{12}, \frac{142}{2847}\sqrt{19}e^{34},$ $\frac{71}{8541}\sqrt{2238}e^{15} + \frac{142}{8541}\sqrt{11}e^{26}, \frac{71}{2847}\sqrt{462}e^{16} + \frac{71}{8541}\sqrt{1174}e^{37}$	$(\frac{2485}{8541}, -\frac{142}{949}, \frac{2911}{8541}, -\frac{710}{2847}, -\frac{284}{949}, \frac{1207}{8541}, \frac{781}{8541}, -\frac{71}{8541}, \frac{284}{657})$ $+ \frac{142}{8541}\sqrt{1407}e^3 \otimes e_4 + \frac{71}{8541}\sqrt{9402}e^1 \otimes e_5$	{245679, 357}
942:341	$0, 0, 0, 0, 0, \frac{4}{507}\sqrt{1095}e^{12}, \frac{1}{39}\sqrt{730}e^{34}, \frac{1}{507}\sqrt{116070}e^{15} + \frac{7}{507}\sqrt{2190}e^{26},$ $\frac{1}{507}\sqrt{67890}e^{16} + \frac{10}{507}\sqrt{438}e^{37}$	$(\frac{15}{169}, -\frac{12}{169}, -\frac{142}{507}, \frac{2}{3}, -\frac{24}{169}, \frac{3}{169}, \frac{196}{507}, -\frac{9}{169}, \frac{18}{169})$ $+ \frac{10}{507}\sqrt{3066}e^4 \otimes e_8$	{1234569, 1245679, 35678, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:341	$0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{2298165}e^{15} + \frac{2}{3969}\sqrt{752095}e^{26}, \frac{20}{3969}\sqrt{11517}e^{16} + \frac{2}{3969}\sqrt{1924735}e^{37}$	$(-\frac{1082}{3969}, \frac{442}{1323}, -\frac{647}{3969}, \frac{152}{1323}, \frac{884}{1323}, \frac{244}{3969}, -\frac{191}{3969}, \frac{1570}{3969}, -\frac{838}{3969})$ $+ \frac{10}{1323}\sqrt{25477}e^5 \otimes e_9$	{13489, 14789, 3469, 4679}
942:342	$0, 0, 0, 0, 0, \frac{2}{693}\sqrt{13459}e^{12}, \frac{4}{693}\sqrt{15963}e^{34}, \frac{2}{693}\sqrt{67921}e^{16} + \frac{2}{77}\sqrt{313}e^{35}, \frac{2}{693}\sqrt{12207}e^{26} + \frac{2}{693}\sqrt{9077}e^{37}$	$(-\frac{131}{693}, \frac{125}{693}, -\frac{185}{693}, \frac{163}{231}, \frac{16}{231}, -\frac{2}{231}, \frac{304}{693}, -\frac{137}{693}, \frac{17}{99})$ $+ \frac{4}{693}\sqrt{44133}e^4 \otimes e_8$	{12378, 1258, 3459, 479}
942:342	$0, 0, 0, 0, 0, \frac{44}{1665}\sqrt{109}e^{12}, \frac{1}{1665}\sqrt{199034}e^{34}, \frac{1}{1665}\sqrt{932822}e^{16} + \frac{8}{555}\sqrt{2398}e^{35}, \frac{109}{1665}\sqrt{66}e^{26} + \frac{4}{1665}\sqrt{128293}e^{37}$	$(-\frac{71}{555}, \frac{503}{1665}, \frac{638}{1665}, -\frac{161}{555}, \frac{187}{555}, \frac{58}{333}, \frac{31}{333}, \frac{77}{1665}, \frac{793}{1665})$ $+ \frac{1}{1665}\sqrt{3359598}e^3 \otimes e_5$	{1367, 156, 349, 4579}
942:342	$0, 0, 0, 0, 0, \frac{10}{207}\sqrt{58}e^{12}, \frac{4}{207}\sqrt{174}e^{34}, \frac{4}{207}\sqrt{145}e^{16} + \frac{2}{207}\sqrt{6438}e^{35}, \frac{4}{207}\sqrt{87}e^{26} + \frac{2}{207}\sqrt{5974}e^{37}$	$(\frac{10}{69}, \frac{28}{207}, \frac{106}{207}, -\frac{14}{23}, -\frac{2}{23}, \frac{58}{207}, -\frac{20}{207}, \frac{88}{207}, \frac{86}{207})$ $+ \frac{2}{207}\sqrt{19662}e^3 \otimes e_4$	{124, 14568, 23569, 389}
942:342	$0, 0, 0, 0, 0, \frac{8}{165}\sqrt{11}e^{12}, \frac{16}{495}\sqrt{34}e^{34}, \frac{8}{495}\sqrt{2}e^{16} + \frac{8}{495}\sqrt{158}e^{35}, \frac{8}{495}\sqrt{31}e^{26} + \frac{16}{495}\sqrt{57}e^{37}$	$(\frac{4}{55}, -\frac{16}{495}, \frac{4}{45}, -\frac{28}{165}, \frac{4}{165}, \frac{4}{99}, -\frac{8}{99}, \frac{56}{495}, \frac{4}{495})$ $- \frac{56}{495}\sqrt{5}e^1 \otimes e_9 + \frac{8}{165}\sqrt{22}e^3 \otimes e_5$	{1367, 156, 349, 4579}
942:342	$0, 0, 0, 0, 0, \frac{8}{165}\sqrt{11}e^{12}, \frac{16}{495}\sqrt{34}e^{34}, \frac{8}{495}\sqrt{2}e^{16} + \frac{8}{495}\sqrt{158}e^{35}, \frac{8}{495}\sqrt{31}e^{26} + \frac{16}{495}\sqrt{57}e^{37}$	$(\frac{4}{55}, -\frac{16}{495}, \frac{4}{45}, -\frac{28}{165}, \frac{4}{165}, \frac{4}{99}, -\frac{8}{99}, \frac{56}{495}, \frac{4}{495})$ $+ \frac{56}{495}\sqrt{5}e^1 \otimes e_9 + \frac{8}{165}\sqrt{22}e^3 \otimes e_5$	{1367, 156, 349, 4579}
942:342	$0, 0, 0, 0, 0, \frac{26}{4637}\sqrt{935}e^{12}, \frac{26}{4637}\sqrt{537}e^{34}, \frac{26}{4637}\sqrt{354}e^{16} + \frac{442}{4637}\sqrt{7}e^{35}, \frac{52}{4637}\sqrt{461}e^{26} + \frac{26}{4637}\sqrt{541}e^{37}$	$(-\frac{169}{4637}, \frac{26}{4637}, -\frac{533}{4637}, \frac{949}{4637}, \frac{221}{4637}, -\frac{143}{4637}, \frac{416}{4637}, -\frac{312}{4637}, -\frac{117}{4637})$ $+ \frac{26}{4637}\sqrt{2393}e^2 \otimes e_8 + \frac{52}{4637}\sqrt{458}e^5 \otimes e_9$	{1249, 1346789, 2356, 578}
942:342	$0, 0, 0, 0, 0, \frac{26}{4637}\sqrt{935}e^{12}, \frac{26}{4637}\sqrt{537}e^{34}, \frac{26}{4637}\sqrt{354}e^{16} + \frac{442}{4637}\sqrt{7}e^{35}, \frac{52}{4637}\sqrt{461}e^{26} + \frac{26}{4637}\sqrt{541}e^{37}$	$(-\frac{169}{4637}, \frac{26}{4637}, -\frac{533}{4637}, \frac{949}{4637}, \frac{221}{4637}, -\frac{143}{4637}, \frac{416}{4637}, -\frac{312}{4637}, -\frac{117}{4637})$ $- \frac{26}{4637}\sqrt{2393}e^2 \otimes e_8 + \frac{52}{4637}\sqrt{458}e^5 \otimes e_9$	{1249, 1346789, 2356, 578}
942:342	$0, 0, 0, 0, 0, \frac{408}{8773}\sqrt{10}e^{12}, \frac{102}{8773}\sqrt{1678}e^{34}, \frac{102}{8773}\sqrt{1187}e^{16} + \frac{51}{8773}\sqrt{2590}e^{35}, \frac{51}{8773}\sqrt{2698}e^{26} + \frac{51}{8773}\sqrt{5266}e^{37}$	$(-\frac{1734}{8773}, \frac{1989}{8773}, \frac{561}{8773}, \frac{1122}{8773}, -\frac{2040}{8773}, \frac{255}{8773}, \frac{1683}{8773}, -\frac{1479}{8773}, \frac{2244}{8773})$ $+ \frac{102}{8773}\sqrt{1759}e^4 \otimes e_8 + \frac{51}{8773}\sqrt{8590}e^3 \otimes e_5$	{349, 4579}
942:342	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{154}e^{12}, \frac{4}{189}\sqrt{14}e^{34}, \frac{4}{189}\sqrt{217}e^{16} + \frac{2}{189}\sqrt{1974}e^{35}, \frac{4}{189}\sqrt{273}e^{26} + \frac{2}{189}\sqrt{742}e^{37}$	$(\frac{2}{9}, -\frac{4}{27}, \frac{2}{27}, -\frac{2}{9}, \frac{2}{9}, \frac{2}{27}, -\frac{4}{27}, \frac{8}{27}, -\frac{2}{27})$ $+ \frac{16}{189}\sqrt{42}e^5 \otimes e_9 + \frac{2}{63}\sqrt{238}e^3 \otimes e_4$	{13689, 458}
942:342	$0, 0, 0, 0, 0, \frac{4}{1647}\sqrt{14905}e^{12}, \frac{5}{1647}\sqrt{1626}e^{34}, \frac{7}{1647}\sqrt{18970}e^{16} + \frac{1}{1647}\sqrt{1812990}e^{35}, \frac{4}{1647}\sqrt{105690}e^{26} + \frac{2}{1647}\sqrt{79945}e^{37}$	$(\frac{173}{549}, -\frac{448}{1647}, -\frac{388}{1647}, \frac{133}{549}, \frac{326}{549}, \frac{71}{1647}, \frac{11}{1647}, \frac{590}{1647}, -\frac{377}{1647})$ $+ \frac{1}{1647}\sqrt{3747930}e^5 \otimes e_9$	{1279, 13689, 234567, 458}
942:342	$0, 0, 0, 0, 0, \frac{570}{7477}\sqrt{6}e^{12}, \frac{57}{7477}\sqrt{1258}e^{34}, \frac{57}{7477}\sqrt{402}e^{16} + \frac{57}{7477}\sqrt{4210}e^{35}, \frac{114}{7477}\sqrt{642}e^{26} + \frac{114}{7477}\sqrt{166}e^{37}$	$(\frac{399}{7477}, -\frac{684}{7477}, -\frac{2166}{7477}, \frac{3363}{7477}, \frac{2280}{7477}, -\frac{285}{7477}, \frac{1197}{7477}, \frac{114}{7477}, -\frac{969}{7477})$ $+ \frac{114}{7477}\sqrt{1546}e^4 \otimes e_8 + \frac{57}{7477}\sqrt{6970}e^5 \otimes e_9$	{14679, 2568}
942:343	$0, 0, 0, 0, 0, \frac{16}{4203}\sqrt{11193}e^{12}, \frac{64}{4203}\sqrt{3895}e^{34}, \frac{16}{4203}\sqrt{15170}e^{16} + \frac{16}{4203}\sqrt{14637}e^{35}, \frac{16}{4203}\sqrt{2706}e^{26} + \frac{16}{4203}\sqrt{10291}e^{47}$	$(\frac{176}{4203}, \frac{160}{1401}, \frac{3040}{4203}, -\frac{952}{4203}, -\frac{736}{1401}, \frac{656}{4203}, \frac{232}{467}, \frac{832}{4203}, \frac{1136}{4203})$ $+ \frac{32}{1401}\sqrt{3854}e^3 \otimes e_5$	{13469, 13679, 457, 5}
942:343	$0, 0, 0, 0, 0, \frac{24}{1451}\sqrt{29}e^{12}, \frac{32}{1451}\sqrt{17}e^{34}, \frac{8}{1451}\sqrt{502}e^{16} + \frac{8}{1451}\sqrt{21}e^{35}, \frac{16}{1451}\sqrt{19}e^{26} + \frac{8}{1451}\sqrt{509}e^{47}$	$(\frac{20}{1451}, -\frac{16}{1451}, -\frac{124}{1451}, \frac{56}{1451}, \frac{148}{1451}, \frac{4}{1451}, -\frac{68}{1451}, \frac{24}{1451}, -\frac{12}{1451})$ $+ \frac{16}{1451}\sqrt{167}e^4 \otimes e_8 - \frac{8}{1451}\sqrt{614}e^1 \otimes e_9$	{1258, 1467, 236789, 3459}
942:343	$0, 0, 0, 0, 0, \frac{24}{1451}\sqrt{29}e^{12}, \frac{32}{1451}\sqrt{17}e^{34}, \frac{8}{1451}\sqrt{502}e^{16} + \frac{8}{1451}\sqrt{21}e^{35}, \frac{16}{1451}\sqrt{19}e^{26} + \frac{8}{1451}\sqrt{509}e^{47}$	$(\frac{20}{1451}, -\frac{16}{1451}, \frac{124}{1451}, \frac{56}{1451}, \frac{148}{1451}, \frac{4}{1451}, -\frac{68}{1451}, \frac{24}{1451}, -\frac{12}{1451})$ $+ \frac{16}{1451}\sqrt{167}e^4 \otimes e_8 + \frac{8}{1451}\sqrt{614}e^1 \otimes e_9$	{1258, 1467, 236789, 3459}
942:343	$0, 0, 0, 0, 0, \frac{56}{5967}\sqrt{237}e^{12}, \frac{112}{5967}\sqrt{478}e^{34}, \frac{56}{5967}\sqrt{1622}e^{16} + \frac{56}{5967}\sqrt{231}e^{35}, \frac{56}{5967}\sqrt{870}e^{26} + \frac{56}{5967}\sqrt{1699}e^{47}$	$(-\frac{1148}{5967}, \frac{448}{1989}, \frac{308}{5967}, \frac{616}{5967}, -\frac{140}{663}, \frac{196}{5967}, \frac{308}{1989}, -\frac{56}{351}, \frac{1540}{5967})$ $+ \frac{112}{5967}\sqrt{435}e^3 \otimes e_5 + \frac{112}{5967}\sqrt{879}e^4 \otimes e_8$	{1258, 236789}
942:343	$0, 0, 0, 0, 0, \frac{40}{4563}\sqrt{177}e^{12}, \frac{80}{4563}\sqrt{133}e^{34}, \frac{40}{4563}\sqrt{494}e^{16} + \frac{40}{1521}\sqrt{131}e^{35}, \frac{40}{4563}\sqrt{114}e^{26} + \frac{40}{4563}\sqrt{1483}e^{47}$	$(-\frac{140}{4563}, \frac{80}{1521}, -\frac{1180}{4563}, \frac{760}{4563}, \frac{380}{1521}, \frac{100}{4563}, -\frac{140}{1521}, -\frac{40}{4563}, \frac{340}{4563})$ $+ \frac{80}{4563}\sqrt{447}e^5 \otimes e_9 + \frac{80}{4563}\sqrt{561}e^4 \otimes e_8$	{123789, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:343	$0, 0, 0, 0, 0, \frac{48}{1469}\sqrt{31}e^{12}, \frac{32}{1469}\sqrt{34}e^{34},$ $\frac{16}{1469}\sqrt{66}e^{16} + \frac{16}{1469}\sqrt{557}e^{35}, \frac{16}{1469}\sqrt{478}e^{26} + \frac{16}{1469}\sqrt{101}e^{47}$	$(-\frac{64}{1469}, \frac{80}{1469}, -\frac{272}{1469}, \frac{184}{1469}, \frac{224}{1469}, \frac{16}{1469}, -\frac{88}{1469}, -\frac{48}{1469}, \frac{96}{1469})$ $+ \frac{32}{1469}\sqrt{158}e^5 \otimes e_9 - \frac{64}{1469}\sqrt{43}e^2 \otimes e_8$	{1249, 1279, 234567, 2356}
942:343	$0, 0, 0, 0, 0, \frac{48}{1469}\sqrt{31}e^{12}, \frac{32}{1469}\sqrt{34}e^{34},$ $\frac{16}{1469}\sqrt{66}e^{16} + \frac{16}{1469}\sqrt{557}e^{35}, \frac{16}{1469}\sqrt{478}e^{26} + \frac{16}{1469}\sqrt{101}e^{47}$	$(-\frac{64}{1469}, \frac{80}{1469}, -\frac{272}{1469}, \frac{184}{1469}, \frac{224}{1469}, \frac{16}{1469}, -\frac{88}{1469}, -\frac{48}{1469}, \frac{96}{1469})$ $+ \frac{32}{1469}\sqrt{158}e^5 \otimes e_9 + \frac{64}{1469}\sqrt{43}e^2 \otimes e_8$	{1249, 1279, 234567, 2356}
942:343	$0, 0, 0, 0, 0, \frac{16}{4419}\sqrt{4233}e^{12}, \frac{32}{4419}\sqrt{5542}e^{34},$ $\frac{16}{4419}\sqrt{27098}e^{16} + \frac{208}{4419}\sqrt{51}e^{35}, \frac{16}{4419}\sqrt{14790}e^{26} + \frac{16}{4419}\sqrt{29971}e^{47}$	$(-\frac{1096}{4419}, \frac{152}{491}, -\frac{1064}{4419}, \frac{1352}{4419}, \frac{80}{1473}, \frac{272}{4419}, \frac{32}{491}, -\frac{824}{4419}, \frac{1640}{4419})$ $+ \frac{544}{1473}\sqrt{6}e^4 \otimes e_8$	{1258, 1467, 236789, 3459}
942:343	$0, 0, 0, 0, 0, \frac{80}{1401}\sqrt{23}e^{12}, \frac{32}{4203}\sqrt{2162}e^{34},$ $\frac{16}{4203}\sqrt{19090}e^{16} + \frac{16}{4203}\sqrt{41469}e^{35}, \frac{16}{4203}\sqrt{31326}e^{26} + \frac{16}{4203}\sqrt{21781}e^{47}$	$(\frac{1280}{4203}, -\frac{304}{1401}, -\frac{752}{4203}, \frac{104}{4203}, \frac{800}{1401}, \frac{368}{4203}, -\frac{72}{467}, \frac{1648}{4203}, -\frac{544}{4203})$ $+ \frac{224}{1401}\sqrt{46}e^5 \otimes e_9$	{1249, 1279, 234567, 2356}
942:344	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{591}e^{12}, \frac{2}{441}\sqrt{5122}e^{34}, \frac{2}{441}\sqrt{36445}e^{16} + \frac{2}{441}\sqrt{11229}e^{37},$ $\frac{2}{441}\sqrt{11229}e^{26} + \frac{16}{441}\sqrt{197}e^{47}$	$(\frac{109}{441}, -\frac{4}{147}, \frac{109}{441}, -\frac{4}{147}, -\frac{95}{147}, \frac{97}{441}, \frac{97}{441}, \frac{206}{441}, \frac{85}{441})$ $+ \frac{22}{441}\sqrt{591}e^1 \otimes e_5$	{128, 1467, 2356789, 3459}
942:344	$0, 0, 0, 0, 0, \frac{14}{585}\sqrt{93}e^{12}, \frac{28}{585}\sqrt{31}e^{34}, \frac{14}{585}\sqrt{235}e^{16} + \frac{14}{195}e^{37},$ $\frac{14}{585}\sqrt{111}e^{26} + \frac{28}{585}\sqrt{41}e^{47}$	$(-\frac{49}{585}, \frac{28}{195}, -\frac{49}{585}, \frac{28}{195}, -\frac{49}{195}, \frac{7}{117}, \frac{7}{117}, -\frac{14}{585}, \frac{119}{585})$ $+ \frac{14}{195}\sqrt{34}e^4 \otimes e_8 + \frac{14}{585}\sqrt{213}e^1 \otimes e_5$	{128, 1467, 2356789, 3459}
942:344	$0, 0, 0, 0, 0, \frac{14}{585}\sqrt{93}e^{12}, \frac{28}{585}\sqrt{31}e^{34}, \frac{14}{585}\sqrt{235}e^{16} + \frac{14}{195}e^{37},$ $\frac{14}{585}\sqrt{111}e^{26} + \frac{28}{585}\sqrt{41}e^{47}$	$(-\frac{49}{585}, \frac{28}{195}, -\frac{49}{585}, \frac{28}{195}, -\frac{49}{195}, \frac{7}{117}, \frac{7}{117}, -\frac{14}{585}, \frac{119}{585})$ $- \frac{14}{195}\sqrt{34}e^4 \otimes e_8 + \frac{14}{585}\sqrt{213}e^1 \otimes e_5$	{128, 1467, 2356789, 3459}
942:344	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{106}e^{12}, \frac{1}{143}\sqrt{106}e^{34}, \frac{6}{143}\sqrt{6}e^{16} + \frac{1}{143}\sqrt{38}e^{37},$ $\frac{1}{143}\sqrt{38}e^{26} + \frac{6}{143}\sqrt{6}e^{47}$	$(-\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, \frac{16}{143}, \frac{2}{143}, -\frac{2}{143}, -\frac{2}{143}, -\frac{3}{143}, -\frac{3}{143})$ $+ \frac{1}{143}\sqrt{254}e^1 \otimes e_9 + \frac{1}{143}\sqrt{254}e^4 \otimes e_8$	{1258, 128, 14567, 1467, 2356789, 236789, 3459, 349}
942:344	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{106}e^{12}, \frac{1}{143}\sqrt{106}e^{34}, \frac{6}{143}\sqrt{6}e^{16} + \frac{1}{143}\sqrt{38}e^{37},$ $\frac{1}{143}\sqrt{38}e^{26} + \frac{6}{143}\sqrt{6}e^{47}$	$(-\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, \frac{16}{143}, \frac{2}{143}, \frac{2}{143}, -\frac{3}{143}, -\frac{3}{143})$ $- \frac{1}{143}\sqrt{254}e^1 \otimes e_9 + \frac{1}{143}\sqrt{254}e^4 \otimes e_8$	{1258, 128, 14567, 1467, 2356789, 236789}
942:344	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{106}e^{12}, \frac{1}{143}\sqrt{106}e^{34}, \frac{6}{143}\sqrt{6}e^{16} + \frac{1}{143}\sqrt{38}e^{37},$ $\frac{1}{143}\sqrt{38}e^{26} + \frac{6}{143}\sqrt{6}e^{47}$	$(-\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, -\frac{1}{143}, \frac{16}{143}, \frac{2}{143}, -\frac{2}{143}, -\frac{2}{143}, -\frac{3}{143}, -\frac{3}{143})$ $+ \frac{1}{143}\sqrt{254}e^1 \otimes e_9 - \frac{1}{143}\sqrt{254}e^4 \otimes e_8$	{1258, 128, 14567, 1467, 2356789, 236789}
942:344	$0, 0, 0, 0, 0, \frac{4}{63}\sqrt{35}e^{12}, \frac{4}{63}\sqrt{35}e^{34}, \frac{8}{63}\sqrt{35}e^{16} + \frac{8}{63}\sqrt{35}e^{37},$ $\frac{2}{63}\sqrt{35}e^{26} + \frac{2}{63}\sqrt{35}e^{47}$	$(-\frac{8}{63}, \frac{1}{7}, -\frac{8}{63}, \frac{1}{7}, \frac{1}{63}, \frac{1}{63}, -\frac{1}{9}, \frac{10}{63})$ $+ \frac{2}{63}\sqrt{1785}e^5 \otimes e_8$	{12348, 13567, 246789, 59}
942:345	$0, 0, 0, 0, 0, \frac{32}{821}\sqrt{23}e^{12}, \frac{128}{821}\sqrt{13}e^{34}, \frac{48}{821}\sqrt{82}e^{15} + \frac{16}{821}\sqrt{1086}e^{26},$ $\frac{32}{821}\sqrt{197}e^{13} + \frac{32}{821}\sqrt{178}e^{25} + \frac{16}{821}\sqrt{154}e^{47}$	$(-\frac{224}{821}, \frac{64}{821}, \frac{416}{821}, -\frac{112}{821}, \frac{128}{821}, -\frac{160}{821}, \frac{304}{821}, -\frac{96}{821}, \frac{192}{821})$ $+ \frac{16}{821}\sqrt{2746}e^3 \otimes e_8$	{45678, 568}
942:345 ₁₄	$0, 0, 0, 0, 0, \frac{14}{6637}\sqrt{431}e^{12}, \frac{21}{6637}\sqrt{678}e^{34},$ $\frac{14}{6637}\sqrt{1385}e^{15} + \frac{7}{6637}\sqrt{3886}e^{26}, \frac{14}{6637}\sqrt{1258}e^{13} + \frac{42}{6637}\sqrt{109}e^{25} + \frac{7}{6637}\sqrt{7410}e^{47}$	$(-\frac{238}{6637}, \frac{35}{6637}, \frac{343}{6637}, -\frac{119}{6637}, \frac{70}{6637}, -\frac{203}{6637}, \frac{224}{6637}, -\frac{168}{6637}, \frac{105}{6637})$ $+ \frac{7}{6637}\sqrt{11518}e^4 \otimes e_8$	{128, 136789}
942:347	$0, 0, 0, 0, 0, \frac{3}{314}\sqrt{865}e^{12}, \frac{15}{314}\sqrt{42}e^{34}, \frac{15}{314}\sqrt{42}e^{16} + \frac{3}{157}\sqrt{265}e^{35},$ $\frac{3}{314}\sqrt{1070}e^{15} + \frac{3}{314}\sqrt{1070}e^{23} + \frac{6}{157}\sqrt{110}e^{47}$	$(-\frac{39}{314}, \frac{33}{157}, -\frac{117}{628}, \frac{33}{314}, \frac{93}{628}, \frac{27}{314}, -\frac{51}{628}, -\frac{6}{157}, \frac{15}{628})$ $+ \frac{3}{314}\sqrt{2685}e^4 \otimes e_8$	{236789, 2568}
942:348	$0, 0, 0, 0, 0, \frac{16}{167}\sqrt{6}e^{12}, \frac{16}{167}\sqrt{11}e^{34}, \frac{16}{167}\sqrt{11}e^{16} + \frac{16}{167}\sqrt{66}e^{35},$ $\frac{32}{167}\sqrt{17}e^{14} + \frac{80}{167}e^{25} + \frac{32}{167}\sqrt{7}e^{37}$	$(-\frac{48}{167}, \frac{56}{167}, -\frac{24}{167}, \frac{88}{167}, -\frac{16}{167}, \frac{8}{167}, \frac{64}{167}, -\frac{40}{167}, \frac{40}{167})$ $+ \frac{16}{167}\sqrt{142}e^4 \otimes e_8$	{12467, 13789}
942:349	$0, 0, 0, 0, 0, \frac{106}{5149}\sqrt{21}e^{12}, \frac{53}{5149}\sqrt{766}e^{34},$ $\frac{212}{5149}\sqrt{201}e^{16} + \frac{265}{5149}\sqrt{138}e^{35}, \frac{1060}{5149}\sqrt{7}e^{15} + \frac{265}{5149}\sqrt{182}e^{24} + \frac{53}{5149}\sqrt{1234}e^{37}$	$(\frac{583}{5149}, -\frac{1484}{5149}, -\frac{742}{5149}, \frac{2491}{5149}, \frac{424}{5149}, -\frac{901}{5149}, \frac{1749}{5149}, -\frac{318}{5149}, \frac{53}{271})$ $+ \frac{1060}{5149}\sqrt{22}e^4 \otimes e_8$	{12467, 2345}
942:350	$0, 0, 0, 0, 0, \frac{8}{321}\sqrt{3}e^{12}, \frac{4}{321}\sqrt{321}e^{34}, -\frac{2}{107}\sqrt{170}e^{15} + \frac{2}{321}\sqrt{1554}e^{26},$ $\frac{2}{321}\sqrt{1158}e^{16} + \frac{2}{321}\sqrt{1182}e^{25} + \frac{8}{321}\sqrt{129}e^{37}$	$(\frac{2}{107}, \frac{2}{107}, \frac{14}{107}, -\frac{22}{107}, \frac{4}{107}, \frac{4}{107}, -\frac{8}{107}, \frac{6}{107}, \frac{6}{107})$ $+ \frac{8}{321}\sqrt{210}e^3 \otimes e_8$	{128, 146789, 2367, 349, 128, 146789, 2367, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:350	$0, 0, 0, 0, 0, \frac{8}{321}\sqrt{3}e^{12}, \frac{4}{321}\sqrt{321}e^{34}, \frac{2}{107}\sqrt{170}e^{15} + \frac{2}{321}\sqrt{1554}e^{26},$ $\frac{8}{321}\sqrt{1158}e^{16} + \frac{2}{321}\sqrt{1182}e^{25} + \frac{8}{321}\sqrt{129}e^{37}$	$(\frac{2}{107}, \frac{2}{107}, \frac{14}{107}, -\frac{22}{107}, \frac{4}{107}, \frac{4}{107}, -\frac{8}{107}, \frac{6}{107}, \frac{6}{107})$ $+ \frac{8}{321}\sqrt{210}e^3 \otimes e_8$	{128, 146789, 2367, 349, 128, 146789, 2367, 349}
942:350	$0, 0, 0, 0, 0, \frac{192}{953}\sqrt{5}e^{12}, \frac{48}{953}\sqrt{61}e^{34}, -\frac{24}{953}\sqrt{274}e^{15} + \frac{24}{953}\sqrt{434}e^{26},$ $\frac{72}{953}\sqrt{38}e^{16} + \frac{24}{953}\sqrt{502}e^{25} + \frac{96}{953}\sqrt{97}e^{37}$	$(\frac{120}{953}, \frac{120}{953}, \frac{504}{953}, -\frac{648}{953}, \frac{240}{953}, \frac{240}{953}, -\frac{144}{953}, \frac{360}{953}, \frac{360}{953})$ $+ \frac{48}{953}\sqrt{770}e^3 \otimes e_4$	{12378, 146789, 2367, 479, 12378, 146789, 2367, 479}
942:350	$0, 0, 0, 0, 0, \frac{192}{953}\sqrt{5}e^{12}, \frac{48}{953}\sqrt{61}e^{34}, \frac{24}{953}\sqrt{274}e^{15} + \frac{24}{953}\sqrt{434}e^{26},$ $\frac{72}{953}\sqrt{38}e^{16} + \frac{24}{953}\sqrt{502}e^{25} + \frac{96}{953}\sqrt{97}e^{37}$	$(\frac{120}{953}, \frac{120}{953}, \frac{504}{953}, -\frac{648}{953}, \frac{240}{953}, \frac{240}{953}, -\frac{144}{953}, \frac{360}{953}, \frac{360}{953})$ $+ \frac{48}{953}\sqrt{770}e^3 \otimes e_4$	{12378, 146789, 2367, 479, 12378, 146789, 2367, 479}
942:351	$0, 0, 0, 0, 0, \frac{37}{1597}\sqrt{362}e^{12}, \frac{1110}{1597}e^{34}, \frac{37}{1597}\sqrt{1094}e^{16} + \frac{37}{1597}\sqrt{494}e^{35},$ $\frac{37}{1597}\sqrt{505}e^{15} + \frac{37}{1597}\sqrt{77}e^{26} + \frac{37}{1597}\sqrt{223}e^{37}$	$(-\frac{185}{1597}, \frac{148}{1597}, -\frac{518}{1597}, \frac{1147}{1597}, \frac{296}{1597}, -\frac{37}{1597}, \frac{629}{1597}, -\frac{222}{1597}, \frac{111}{1597})$ $+ \frac{37}{1597}\sqrt{2613}e^4 \otimes e_8$	{12378, 479}
942:351	$0, 0, 0, 0, 0, \frac{20}{761}\sqrt{374}e^{12}, \frac{240}{761}e^{34}, \frac{40}{761}\sqrt{7}e^{16} + \frac{20}{761}\sqrt{962}e^{35},$ $\frac{80}{761}\sqrt{37}e^{15} + \frac{40}{761}\sqrt{19}e^{26} + \frac{20}{761}\sqrt{866}e^{37}$	$(\frac{180}{761}, \frac{20}{761}, \frac{340}{761}, -\frac{460}{761}, \frac{40}{761}, \frac{200}{761}, -\frac{120}{761}, \frac{380}{761}, \frac{220}{761})$ $+ \frac{20}{761}\sqrt{2514}e^3 \otimes e_4$	{13569, 24568}
942:352	$0, 0, 0, 0, 0, -\frac{1}{445}\sqrt{119}e^{12}, \frac{1}{445}\sqrt{409}e^{34}, \frac{1}{445}\sqrt{455}e^{15} + \frac{1}{445}\sqrt{227}e^{26},$ $\frac{1}{445}\sqrt{246}e^{16} + \frac{1}{445}\sqrt{337}e^{35} + \frac{1}{445}\sqrt{491}e^{47}$	$(\frac{4}{445}, -\frac{1}{89}, \frac{13}{445}, -\frac{1}{89}, -\frac{2}{89}, -\frac{1}{445}, \frac{8}{445}, -\frac{6}{445}, \frac{3}{445})$ $+ \frac{6}{445}\sqrt{22}e^4 \otimes e_8$	{1234569, 1457, 235789, 568, 1234569, 1457, 235789, 568}
942:352	$0, 0, 0, 0, 0, \frac{1}{445}\sqrt{119}e^{12}, \frac{1}{445}\sqrt{409}e^{34}, \frac{1}{445}\sqrt{455}e^{15} + \frac{1}{445}\sqrt{227}e^{26},$ $\frac{1}{445}\sqrt{246}e^{16} + \frac{1}{445}\sqrt{337}e^{35} + \frac{1}{445}\sqrt{491}e^{47}$	$(\frac{4}{445}, -\frac{1}{89}, \frac{13}{445}, -\frac{1}{89}, -\frac{2}{89}, -\frac{1}{445}, \frac{8}{445}, -\frac{6}{445}, \frac{3}{445})$ $+ \frac{6}{445}\sqrt{22}e^4 \otimes e_8$	{1234569, 1457, 235789, 568, 1234569, 1457, 235789, 568}
942:353	$0, 0, 0, 0, 0, \frac{16}{1257}\sqrt{1578}e^{16} + \frac{16}{419}\sqrt{91}e^{35}, \frac{16}{1257}\sqrt{78}e^{15} + \frac{16}{1257}\sqrt{534}e^{26} + \frac{16}{1257}\sqrt{1851}e^{47}$	$(-\frac{40}{419}, \frac{56}{419}, -\frac{136}{419}, \frac{104}{419}, \frac{112}{419}, \frac{16}{419}, -\frac{32}{419}, -\frac{24}{419}, \frac{72}{419})$ $+ \frac{32}{1257}\sqrt{798}e^4 \otimes e_8$	{1467, 236789}
942:354	$0, 0, 0, 0, 0, \frac{7}{341}\sqrt{195}e^{12}, \frac{7}{341}\sqrt{755}e^{34}, \frac{70}{341}\sqrt{13}e^{16} + \frac{70}{341}e^{35},$ $\frac{7}{341}\sqrt{590}e^{26} + \frac{7}{341}\sqrt{10}e^{37} + \frac{7}{341}\sqrt{1045}e^{45}$	$(-\frac{91}{341}, \frac{98}{341}, -\frac{28}{341}, \frac{161}{341}, -\frac{56}{341}, \frac{7}{341}, \frac{133}{341}, -\frac{84}{341}, \frac{105}{341})$ $+ \frac{35}{341}\sqrt{113}e^4 \otimes e_8$	{12378, 479}
942:354	$0, 0, 0, 0, 0, \frac{14}{1167}\sqrt{1641}e^{16} + \frac{14}{1167}\sqrt{1239}e^{35}, \frac{14}{1167}\sqrt{1167}e^{12}, \frac{14}{1167}\sqrt{210}e^{34},$ $\frac{14}{1167}\sqrt{183}e^{26} + \frac{14}{1167}\sqrt{1257}e^{37} + \frac{112}{389}\sqrt{2}e^{45}$	$(\frac{77}{389}, -\frac{49}{389}, \frac{35}{389}, -\frac{91}{389}, \frac{70}{389}, \frac{28}{389}, -\frac{56}{389}, \frac{105}{389}, -\frac{21}{389})$ $- \frac{14}{1167}\sqrt{2958}e^1 \otimes e_9$	{128, 1367, 246789, 349}
942:354	$0, 0, 0, 0, 0, \frac{14}{1167}\sqrt{1641}e^{16} + \frac{14}{1167}\sqrt{1239}e^{35}, \frac{14}{1167}\sqrt{1167}e^{12}, \frac{14}{1167}\sqrt{210}e^{34},$ $\frac{14}{1167}\sqrt{183}e^{26} + \frac{14}{1167}\sqrt{1257}e^{37} + \frac{112}{389}\sqrt{2}e^{45}$	$(\frac{77}{389}, -\frac{49}{389}, \frac{35}{389}, -\frac{91}{389}, \frac{70}{389}, \frac{28}{389}, -\frac{56}{389}, \frac{105}{389}, -\frac{21}{389})$ $+ \frac{14}{1167}\sqrt{2958}e^1 \otimes e_9$	{128, 1367, 246789, 349}
942:372	$0, 0, 0, 0, 0, \frac{16}{311}\sqrt{15}e^{12}, \frac{8}{311}\sqrt{141}e^{34}, \frac{16}{311}\sqrt{13}e^{13} + \frac{8}{311}\sqrt{141}e^{26},$ $\frac{8}{311}\sqrt{23}e^{15} + \frac{8}{311}\sqrt{41}e^{23} + \frac{8}{311}\sqrt{166}e^{47}$	$(-\frac{44}{311}, \frac{8}{311}, \frac{16}{311}, \frac{4}{311}, \frac{68}{311}, -\frac{36}{311}, \frac{20}{311}, -\frac{28}{311}, \frac{24}{311})$ $+ \frac{8}{311}\sqrt{266}e^4 \otimes e_8$	{128, 24567}
942:373	$0, 0, 0, 0, 0, \frac{26}{331}\sqrt{73}e^{12}, \frac{26}{331}\sqrt{33}e^{34}, \frac{26}{331}\sqrt{131}e^{13} + \frac{13}{331}\sqrt{114}e^{26},$ $\frac{52}{331}\sqrt{5}e^{14} + \frac{52}{331}\sqrt{30}e^{25} + \frac{26}{331}\sqrt{73}e^{37}$	$(-\frac{52}{331}, -\frac{13}{331}, -\frac{26}{331}, \frac{130}{331}, \frac{91}{331}, -\frac{65}{331}, \frac{104}{331}, -\frac{78}{331}, \frac{78}{331})$ $+ \frac{13}{331}\sqrt{614}e^5 \otimes e_8$	{124689, 178}
942:373	$0, 0, 0, 0, 0, \frac{19}{3529}\sqrt{5518}e^{13} + \frac{19}{3529}\sqrt{5786}e^{26}, \frac{38}{3529}\sqrt{1466}e^{12}, \frac{76}{3529}\sqrt{138}e^{34},$ $\frac{37}{3529}\sqrt{26}e^{14} + \frac{19}{3529}\sqrt{4782}e^{25} + \frac{19}{3529}\sqrt{3802}e^{37}$	$(\frac{380}{3529}, \frac{95}{3529}, \frac{190}{3529}, -\frac{551}{3529}, -\frac{266}{3529}, \frac{475}{3529}, -\frac{361}{3529}, \frac{570}{3529}, -\frac{171}{3529})$ $+ \frac{19}{3529}\sqrt{6186}e^2 \otimes e_5$	{12378, 135678}
942:373	$0, 0, 0, 0, 0, \frac{17}{397}\sqrt{2}e^{12}, \frac{68}{397}\sqrt{11}e^{34}, \frac{17}{397}\sqrt{22}e^{13} + \frac{68}{397}\sqrt{19}e^{26},$ $\frac{34}{397}\sqrt{61}e^{14} + \frac{34}{397}\sqrt{35}e^{25} + \frac{17}{397}\sqrt{2}e^{37}$	$(-\frac{68}{397}, -\frac{17}{397}, -\frac{34}{397}, \frac{187}{397}, \frac{136}{397}, -\frac{85}{397}, \frac{153}{397}, -\frac{102}{397}, \frac{119}{397})$ $+ \frac{17}{397}\sqrt{662}e^4 \otimes e_8$	{245679, 479}
942:374	$0, 0, 0, 0, 0, \frac{4}{5}\sqrt{2}e^{15} + \frac{2}{5}\sqrt{7}e^{24} + \frac{4}{5}e^{37},$ $\frac{2}{5}\sqrt{3}e^{34}, \frac{2}{5}\sqrt{7}e^{13} + \frac{2}{5}\sqrt{3}e^{26},$	$(-\frac{1}{5}, 0, 0, \frac{1}{5}, \frac{2}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{5}\sqrt{5}e^4 \otimes e_8$	{178, 469}
942:374	$0, 0, 0, 0, 0, \frac{5}{31}\sqrt{3}e^{12}, \frac{10}{31}\sqrt{3}e^{34}, \frac{10}{31}e^{13} + \frac{5}{31}\sqrt{29}e^{26},$ $\frac{15}{31}\sqrt{3}e^{15} + \frac{5}{31}\sqrt{21}e^{24} + \frac{5}{31}\sqrt{3}e^{37}$	$(-\frac{15}{62}, 0, 0, \frac{10}{31}, \frac{35}{62}, -\frac{15}{62}, \frac{10}{31}, -\frac{15}{62}, \frac{10}{31})$ $+ \frac{5}{31}\sqrt{51}e^5 \otimes e_8$	{123489, 234569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:375	$0, 0, 0, 0, 0, \frac{40}{167}\sqrt{10}e^{12}, \frac{64}{167}e^{34}, -\frac{8}{167}\sqrt{102}e^{13} + \frac{16}{167}\sqrt{5}e^{26},$ $\frac{48}{167}\sqrt{7}e^{16} + \frac{16}{167}\sqrt{46}e^{23} + \frac{8}{167}\sqrt{14}e^{47}$	$(\frac{16}{167}, \frac{16}{167}, \frac{32}{167}, \frac{8}{167}, -\frac{112}{167}, \frac{32}{167}, \frac{40}{167}, \frac{48}{167}, \frac{48}{167})$ $+ \frac{24}{167}\sqrt{62}e^1 \otimes e_5$	{12349, 12379, 2345689, 2356789, 12349, 12379, 2345689, 2356789}
942:375	$0, 0, 0, 0, 0, \frac{40}{167}\sqrt{10}e^{12}, \frac{64}{167}e^{34}, \frac{8}{167}\sqrt{102}e^{13} + \frac{16}{167}\sqrt{5}e^{26},$ $\frac{48}{167}\sqrt{7}e^{16} + \frac{16}{167}\sqrt{46}e^{23} + \frac{8}{167}\sqrt{14}e^{47}$	$(\frac{16}{167}, \frac{16}{167}, \frac{32}{167}, \frac{8}{167}, -\frac{112}{167}, \frac{32}{167}, \frac{40}{167}, \frac{48}{167}, \frac{48}{167})$ $+ \frac{24}{167}\sqrt{62}e^1 \otimes e_5$	{12349, 12379, 2345689, 2356789, 12349, 12379, 2345689, 2356789}
942:375	$0, 0, 0, 0, 0, \frac{102}{307}\sqrt{3}e^{12}, \frac{34}{307}\sqrt{17}e^{34}, -\frac{17}{307}\sqrt{201}e^{13} + \frac{17}{307}\sqrt{83}e^{26},$ $\frac{85}{307}\sqrt{3}e^{16} + \frac{17}{307}\sqrt{209}e^{23} + \frac{68}{307}e^{47}$	$(\frac{34}{307}, \frac{34}{307}, \frac{68}{307}, \frac{17}{307}, -\frac{221}{307}, \frac{68}{307}, \frac{85}{307}, \frac{102}{307}, \frac{102}{307})$ $+ \frac{68}{307}\sqrt{33}e^3 \otimes e_5$	{12456789, 125689, 24579, 259, 12456789, 125689, 24579, 259}
942:375	$0, 0, 0, 0, 0, \frac{102}{307}\sqrt{3}e^{12}, \frac{34}{307}\sqrt{17}e^{34}, \frac{17}{307}\sqrt{201}e^{13} + \frac{17}{307}\sqrt{83}e^{26},$ $\frac{85}{307}\sqrt{3}e^{16} + \frac{17}{307}\sqrt{209}e^{23} + \frac{68}{307}e^{47}$	$(\frac{34}{307}, \frac{34}{307}, \frac{68}{307}, \frac{17}{307}, -\frac{221}{307}, \frac{68}{307}, \frac{85}{307}, \frac{102}{307}, \frac{102}{307})$ $+ \frac{68}{307}\sqrt{33}e^3 \otimes e_5$	{12456789, 125689, 24579, 259, 12456789, 125689, 24579, 259}
942:375	$0, 0, 0, 0, 0, \frac{40}{167}\sqrt{10}e^{12}, \frac{64}{167}e^{34}, -\frac{8}{167}\sqrt{177}e^{13} + \frac{8}{167}\sqrt{259}e^{26},$ $\frac{24}{167}\sqrt{3}e^{16} + \frac{8}{167}\sqrt{95}e^{23} + \frac{8}{167}\sqrt{14}e^{47}$	$(\frac{16}{167}, \frac{16}{167}, \frac{32}{167}, \frac{8}{167}, -\frac{112}{167}, \frac{32}{167}, \frac{40}{167}, \frac{48}{167}, \frac{48}{167})$ $+ \frac{24}{167}\sqrt{62}e^2 \otimes e_5$	{1345689, 1356789, 3459, 3579, 1345689, 1356789, 3459, 3579}
942:375	$0, 0, 0, 0, 0, \frac{40}{167}\sqrt{10}e^{12}, \frac{64}{167}e^{34}, \frac{8}{167}\sqrt{177}e^{13} + \frac{8}{167}\sqrt{259}e^{26},$ $\frac{24}{167}\sqrt{3}e^{16} + \frac{8}{167}\sqrt{95}e^{23} + \frac{8}{167}\sqrt{14}e^{47}$	$(\frac{16}{167}, \frac{16}{167}, \frac{32}{167}, \frac{8}{167}, -\frac{112}{167}, \frac{32}{167}, \frac{40}{167}, \frac{48}{167}, \frac{48}{167})$ $+ \frac{24}{167}\sqrt{62}e^2 \otimes e_5$	{1345689, 1356789, 3459, 3579, 1345689, 1356789, 3459, 3579}
942:375	$0, 0, 0, 0, 0, \frac{10}{1363}\sqrt{94}e^{12}, \frac{20}{1363}\sqrt{73}e^{34}, -\frac{5}{1363}\sqrt{597}e^{13} + \frac{185}{1363}e^{26},$ $\frac{15}{1363}\sqrt{67}e^{16} + \frac{25}{1363}\sqrt{55}e^{23} + \frac{140}{1363}\sqrt{2}e^{47}$	$(-\frac{10}{1363}, -\frac{10}{1363}, -\frac{20}{1363}, -\frac{5}{1363}, \frac{175}{1363}, -\frac{20}{1363}, -\frac{25}{1363}, -\frac{30}{1363}, -\frac{30}{1363})$ $+ \frac{30}{1363}\sqrt{66}e^4 \otimes e_8$	{1258, 128, 24567, 2467, 1258, 128, 24567, 2467}
942:375	$0, 0, 0, 0, 0, \frac{10}{1363}\sqrt{94}e^{12}, \frac{20}{1363}\sqrt{73}e^{34}, \frac{5}{1363}\sqrt{597}e^{13} + \frac{185}{1363}e^{26},$ $\frac{15}{1363}\sqrt{67}e^{16} + \frac{25}{1363}\sqrt{55}e^{23} + \frac{140}{1363}\sqrt{2}e^{47}$	$(-\frac{10}{1363}, -\frac{10}{1363}, -\frac{20}{1363}, -\frac{5}{1363}, \frac{175}{1363}, -\frac{20}{1363}, -\frac{25}{1363}, -\frac{30}{1363}, -\frac{30}{1363})$ $+ \frac{30}{1363}\sqrt{66}e^4 \otimes e_8$	{1258, 128, 24567, 2467, 1258, 128, 24567, 2467}
942:376	$0, 0, 0, 0, 0, \frac{11}{109}\sqrt{42}e^{12}, \frac{22}{109}\sqrt{5}e^{34}, \frac{44}{109}\sqrt{3}e^{13} + \frac{66}{109}e^{26},$ $\frac{33}{109}\sqrt{2}e^{16} + \frac{11}{109}\sqrt{110}e^{24} + \frac{66}{109}e^{37}$	$(\frac{22}{109}, 0, 0, \frac{44}{109}, -\frac{77}{109}, \frac{22}{109}, \frac{44}{109}, \frac{22}{109}, \frac{44}{109})$ $+ \frac{11}{109}\sqrt{186}e^4 \otimes e_5$	{125689, 259}
942:376	$0, 0, 0, 0, 0, \frac{5}{31}\sqrt{29}e^{12}, \frac{10}{31}\sqrt{3}e^{34}, \frac{10}{31}e^{13} + \frac{5}{31}\sqrt{3}e^{26},$ $\frac{15}{31}\sqrt{3}e^{16} + \frac{5}{31}\sqrt{21}e^{24} + \frac{5}{31}\sqrt{3}e^{37}$	$(\frac{5}{31}, 0, 0, \frac{10}{31}, -\frac{20}{31}, \frac{5}{31}, \frac{10}{31}, \frac{5}{31}, \frac{10}{31})$ $+ \frac{5}{31}\sqrt{51}e^1 \otimes e_5$	{123489, 234569}
942:376	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{158}e^{12}, \frac{6}{47}\sqrt{58}e^{34}, \frac{3}{47}\sqrt{170}e^{13} + \frac{3}{47}\sqrt{146}e^{26},$ $\frac{18}{47}e^{16} + \frac{6}{47}\sqrt{61}e^{24} + \frac{6}{47}\sqrt{55}e^{37}$	$(\frac{6}{47}, 0, 0, \frac{12}{47}, -\frac{27}{47}, \frac{6}{47}, \frac{12}{47}, \frac{6}{47}, \frac{12}{47})$ $+ \frac{3}{47}\sqrt{222}e^3 \otimes e_5$	{123489, 23469}
942:376	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{13}e^{12}, \frac{5}{79}\sqrt{6}e^{34}, \frac{4}{79}\sqrt{19}e^{13} + \frac{4}{79}\sqrt{7}e^{26},$ $\frac{1}{79}\sqrt{114}e^{16} + \frac{4}{79}\sqrt{19}e^{24} + \frac{1}{79}\sqrt{170}e^{37}$	$(\frac{1}{79}, 0, 0, \frac{2}{79}, -\frac{8}{79}, \frac{1}{79}, \frac{2}{79}, \frac{1}{79}, \frac{2}{79})$ $+ \frac{1}{79}\sqrt{174}e^4 \otimes e_8$	{1578, 178}
942:376	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{58}e^{12}, \frac{3}{47}\sqrt{158}e^{34}, \frac{6}{47}\sqrt{61}e^{13} + \frac{6}{47}\sqrt{55}e^{26},$ $\frac{18}{47}e^{16} + \frac{3}{47}\sqrt{170}e^{24} + \frac{3}{47}\sqrt{146}e^{37}$	$(\frac{6}{47}, 0, 0, \frac{12}{47}, -\frac{27}{47}, \frac{6}{47}, \frac{12}{47}, \frac{6}{47}, \frac{12}{47})$ $+ \frac{3}{47}\sqrt{222}e^2 \otimes e_5$	{123489, 23469}
942:377	$0, 0, 0, 0, 0, \frac{17}{3781}\sqrt{6310}e^{13} + \frac{34}{3781}\sqrt{1541}e^{26}, \frac{17}{3781}\sqrt{6458}e^{12}, \frac{34}{3781}\sqrt{606}e^{34},$ $\frac{357}{3781}\sqrt{2}e^{16} + \frac{17}{3781}\sqrt{5502}e^{25} + \frac{34}{3781}\sqrt{991}e^{37}$	$(-\frac{34}{3781}, \frac{221}{3781}, \frac{442}{3781}, -\frac{731}{3781}, -\frac{68}{3781}, \frac{187}{3781}, -\frac{289}{3781}, \frac{408}{3781}, \frac{153}{3781})$ $+ \frac{170}{3781}\sqrt{66}e^2 \otimes e_5$	{135678, 357}
942:377	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{37}e^{12}, \frac{1}{23}\sqrt{78}e^{34}, \frac{2}{23}\sqrt{59}e^{13} + \frac{2}{23}\sqrt{10}e^{26},$ $\frac{4}{23}\sqrt{6}e^{16} + \frac{1}{23}\sqrt{210}e^{25} + \frac{2}{23}\sqrt{29}e^{37}$	$(\frac{1}{23}, -\frac{2}{23}, -\frac{4}{23}, \frac{8}{23}, \frac{2}{23}, -\frac{1}{23}, \frac{4}{23}, -\frac{3}{23}, 0)$ $+ \frac{2}{23}\sqrt{57}e^5 \otimes e_8$	{124689, 178}
942:377	$0, 0, 0, 0, 0, \frac{61}{3469}\sqrt{742}e^{12}, \frac{122}{3469}\sqrt{138}e^{34},$ $\frac{61}{3469}\sqrt{2714}e^{13} + \frac{122}{3469}\sqrt{89}e^{26}, \frac{61}{3469}\sqrt{1158}e^{16} + \frac{61}{3469}\sqrt{570}e^{25} + \frac{122}{3469}\sqrt{401}e^{37}$	$(\frac{122}{3469}, \frac{793}{3469}, \frac{1586}{3469}, -\frac{2135}{3469}, \frac{244}{3469}, \frac{915}{3469}, -\frac{549}{3469}, \frac{1708}{3469}, \frac{1037}{3469})$ $+ \frac{854}{3469}\sqrt{30}e^3 \otimes e_4$	{148, 46}
942:377	$0, 0, 0, 0, 0, \frac{29}{949}\sqrt{86}e^{12}, \frac{58}{949}\sqrt{141}e^{34}, \frac{29}{949}\sqrt{206}e^{13} + \frac{58}{949}\sqrt{167}e^{26},$ $\frac{29}{949}\sqrt{186}e^{16} + \frac{87}{949}\sqrt{14}e^{25} + \frac{58}{949}\sqrt{37}e^{37}$	$(\frac{116}{949}, -\frac{145}{949}, -\frac{290}{949}, \frac{667}{949}, \frac{232}{949}, -\frac{29}{949}, \frac{29}{949}, \frac{29}{949}, \frac{87}{949})$ $+ \frac{58}{949}\sqrt{390}e^4 \otimes e_8$	{128, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:378	$0, 0, 0, 0, 0, \frac{13}{301}\sqrt{218}e^{12}, \frac{26}{301}\sqrt{26}e^{34}, \frac{13}{301}\sqrt{370}e^{13} + \frac{13}{301}\sqrt{38}e^{26},$ $\frac{52}{301}\sqrt{14}e^{16} + \frac{39}{301}\sqrt{38}e^{25} + \frac{26}{301}\sqrt{5}e^{47}$	$(\frac{65}{301}, -\frac{52}{301}, -\frac{104}{301}, \frac{13}{43}, \frac{130}{301}, \frac{13}{301}, -\frac{13}{301}, -\frac{39}{301}, \frac{78}{301})$ $+ \frac{52}{301}\sqrt{34}e^5 \otimes e_8$	{234789, 2389}
942:378	$0, 0, 0, 0, 0, \frac{20}{619}\sqrt{42}e^{12}, \frac{5}{619}\sqrt{3126}e^{34}, \frac{210}{619}e^{13} + \frac{10}{619}\sqrt{1182}e^{26},$ $\frac{10}{619}\sqrt{669}e^{16} + \frac{5}{619}\sqrt{2130}e^{25} + \frac{10}{619}\sqrt{1329}e^{47}$	$(\frac{105}{619}, -\frac{90}{619}, -\frac{180}{619}, \frac{150}{619}, \frac{210}{619}, \frac{15}{619}, -\frac{30}{619}, -\frac{75}{619}, \frac{120}{619})$ $+ \frac{10}{619}\sqrt{2373}e^4 \otimes e_8$	{128, 2467}
942:379	$0, 0, 0, 0, 0, \frac{820}{3221}\sqrt{2}e^{12}, \frac{82}{3221}\sqrt{902}e^{34},$ $\frac{82}{3221}\sqrt{1126}e^{13} + \frac{328}{3221}\sqrt{11}e^{26}, \frac{492}{3221}\sqrt{2}e^{16} + \frac{82}{3221}\sqrt{611}e^{35} + \frac{82}{3221}\sqrt{403}e^{47}$	$(-\frac{328}{3221}, \frac{902}{3221}, \frac{1804}{3221}, -\frac{779}{3221}, -\frac{1558}{3221}, \frac{574}{3221}, \frac{1025}{3221}, \frac{1476}{3221}, \frac{246}{3221})$ $+ \frac{574}{3221}\sqrt{55}e^3 \otimes e_5$	{14578, 158, 4567, 56}
942:379	$0, 0, 0, 0, 0, \frac{820}{3221}\sqrt{2}e^{12}, \frac{82}{3221}\sqrt{902}e^{34},$ $\frac{82}{3221}\sqrt{1126}e^{13} + \frac{328}{3221}\sqrt{11}e^{26}, \frac{492}{3221}\sqrt{2}e^{16} + \frac{82}{3221}\sqrt{611}e^{35} + \frac{82}{3221}\sqrt{403}e^{47}$	$(-\frac{328}{3221}, \frac{902}{3221}, \frac{1804}{3221}, -\frac{779}{3221}, -\frac{1558}{3221}, \frac{574}{3221}, \frac{1025}{3221}, \frac{1476}{3221}, \frac{246}{3221})$ $- \frac{574}{3221}\sqrt{55}e^3 \otimes e_5$	{14578, 158, 4567, 56}
942:379	$0, 0, 0, 0, 0, \frac{17}{397}\sqrt{30}e^{12}, \frac{34}{397}\sqrt{34}e^{34}, \frac{17}{397}\sqrt{199}e^{13} + \frac{85}{397}\sqrt{11}e^{26},$ $\frac{17}{397}\sqrt{230}e^{16} + \frac{17}{397}\sqrt{318}e^{35} + \frac{17}{397}\sqrt{7}e^{47}$	$(\frac{85}{397}, -\frac{68}{397}, -\frac{136}{397}, \frac{119}{397}, \frac{238}{397}, \frac{17}{397}, -\frac{17}{397}, -\frac{51}{397}, \frac{102}{397})$ $+ \frac{17}{397}\sqrt{685}e^5 \otimes e_8$	{13457, 135}
942:379	$0, 0, 0, 0, 0, \frac{9}{1331}\sqrt{790}e^{12}, \frac{72}{1331}\sqrt{65}e^{34},$ $\frac{18}{1331}\sqrt{1030}e^{13} + \frac{72}{1331}\sqrt{65}e^{26}, \frac{9}{1331}\sqrt{3290}e^{16} + \frac{9}{1331}\sqrt{3290}e^{35} + \frac{9}{1331}\sqrt{6630}e^{47}$	$(\frac{171}{1331}, -\frac{162}{1331}, -\frac{324}{1331}, \frac{252}{1331}, \frac{504}{1331}, \frac{931}{1331}, -\frac{72}{1331}, -\frac{153}{1331}, \frac{180}{1331})$ $+ \frac{306}{1331}\sqrt{10}e^4 \otimes e_8$	{1234569, 235789}
942:380	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{86}e^{12}, \frac{4}{35}\sqrt{11}e^{34}, \frac{4}{35}\sqrt{17}e^{13} + \frac{4}{35}\sqrt{5}e^{26},$ $\frac{9}{35}\sqrt{2}e^{16} + \frac{1}{35}\sqrt{122}e^{37} + \frac{3}{35}\sqrt{30}e^{45}$	$(-\frac{1}{35}, \frac{2}{35}, \frac{4}{35}, -\frac{8}{35}, \frac{8}{35}, \frac{1}{35}, -\frac{4}{35}, \frac{3}{35}, 0)$ $+ \frac{4}{35}\sqrt{21}e^5 \otimes e_8$	{234789, 368}
942:380	$0, 0, 0, 0, 0, \frac{176}{763}\sqrt{7}e^{12}, \frac{11}{763}\sqrt{5446}e^{34},$ $\frac{11}{763}\sqrt{3346}e^{13} + \frac{22}{763}\sqrt{329}e^{26}, \frac{22}{763}\sqrt{357}e^{16} + \frac{11}{763}\sqrt{2086}e^{37} + \frac{11}{763}\sqrt{2310}e^{45}$	$(\frac{22}{109}, -\frac{11}{109}, -\frac{22}{109}, \frac{77}{109}, -\frac{44}{109}, \frac{11}{109}, \frac{55}{109}, 0, \frac{33}{109})$ $+ \frac{22}{763}\sqrt{2163}e^4 \otimes e_5$	{135678, 357}
942:380	$0, 0, 0, 0, 0, \frac{39}{319}\sqrt{6}e^{12}, \frac{52}{319}\sqrt{2}e^{34}, \frac{26}{319}\sqrt{62}e^{13} + \frac{104}{319}\sqrt{3}e^{26},$ $\frac{13}{319}\sqrt{186}e^{16} + \frac{39}{319}\sqrt{10}e^{37} + \frac{91}{319}\sqrt{6}e^{45}$	$(\frac{39}{319}, -\frac{26}{319}, -\frac{52}{319}, \frac{156}{319}, -\frac{104}{319}, \frac{13}{319}, \frac{104}{319}, -\frac{13}{319}, \frac{52}{319})$ $+ \frac{26}{319}\sqrt{138}e^4 \otimes e_8$	{1345, 235789}
942:381	$0, 0, 0, 0, 0, \frac{260}{319}e^{12}, \frac{13}{319}\sqrt{130}e^{34}, \frac{13}{319}\sqrt{258}e^{15} + \frac{13}{319}\sqrt{94}e^{26},$ $\frac{13}{319}\sqrt{366}e^{16} + \frac{52}{319}\sqrt{19}e^{23} + \frac{26}{319}\sqrt{2}e^{47}$	$(\frac{65}{319}, -\frac{52}{319}, \frac{130}{319}, -\frac{26}{319}, -\frac{104}{319}, \frac{13}{319}, \frac{104}{319}, -\frac{39}{319}, \frac{78}{319})$ $+ \frac{26}{319}\sqrt{138}e^1 \otimes e_5$	{234569, 235679}
942:381	$0, 0, 0, 0, 0, \frac{26}{319}\sqrt{38}e^{12}, \frac{13}{319}\sqrt{130}e^{34}, \frac{91}{319}\sqrt{6}e^{15} + \frac{13}{319}\sqrt{94}e^{26},$ $\frac{13}{319}\sqrt{186}e^{16} + \frac{26}{319}\sqrt{62}e^{23} + \frac{26}{319}\sqrt{2}e^{47}$	$(\frac{65}{319}, -\frac{52}{319}, \frac{130}{319}, -\frac{26}{319}, -\frac{104}{319}, \frac{13}{319}, \frac{104}{319}, -\frac{39}{319}, \frac{78}{319})$ $+ \frac{26}{319}\sqrt{138}e^3 \otimes e_8$	{45678, 568}
942:381	$0, 0, 0, 0, 0, \frac{88}{5455}\sqrt{19}e^{12}, \frac{11}{5455}\sqrt{5146}e^{34},$ $\frac{11}{5455}\sqrt{2334}e^{15} + \frac{11}{5455}\sqrt{5206}e^{26}, \frac{11}{5455}\sqrt{2514}e^{16} + \frac{44}{5455}\sqrt{283}e^{23} + \frac{44}{5455}\sqrt{374}e^{47}$	$(\frac{209}{5455}, -\frac{44}{1091}, \frac{418}{5455}, -\frac{22}{1091}, -\frac{88}{1091}, -\frac{11}{5455}, \frac{308}{5455}, -\frac{231}{5455}, \frac{198}{5455})$ $+ \frac{44}{5455}\sqrt{591}e^4 \otimes e_8$	{128, 2467}
942:382	$0, 0, 0, 0, 0, \frac{16}{595}\sqrt{195}e^{12}, \frac{64}{119}\sqrt{2}e^{34}, \frac{16}{595}\sqrt{10}e^{16} + \frac{16}{595}\sqrt{465}e^{35},$ $\frac{64}{595}\sqrt{65}e^{13} + \frac{16}{119}\sqrt{6}e^{26} + \frac{16}{595}\sqrt{145}e^{47}$	$(-\frac{16}{119}, \frac{32}{119}, \frac{64}{119}, -\frac{8}{119}, -\frac{64}{119}, \frac{16}{119}, \frac{8}{17}, 0, \frac{48}{119})$ $+ \frac{96}{595}\sqrt{70}e^3 \otimes e_5$	{1245679, 12569}
942:382	$0, 0, 0, 0, 0, \frac{8}{3383}\sqrt{793}e^{12}, \frac{16}{3383}\sqrt{382}e^{34},$ $\frac{8}{3383}\sqrt{1658}e^{16} + \frac{8}{3383}\sqrt{699}e^{35}, \frac{80}{3383}\sqrt{19}e^{13} + \frac{8}{3383}\sqrt{390}e^{26} + \frac{8}{3383}\sqrt{1891}e^{47}$	$(-\frac{72}{3383}, \frac{76}{3383}, \frac{152}{3383}, -\frac{36}{3383}, -\frac{220}{3383}, \frac{4}{3383}, \frac{116}{3383}, -\frac{4}{199}, \frac{80}{3383})$ $+ \frac{176}{3383}\sqrt{6}e^4 \otimes e_8$	{1258, 1467}
942:382	$0, 0, 0, 0, 0, \frac{192}{3119}\sqrt{3}e^{12}, \frac{512}{3119}\sqrt{7}e^{34},$ $\frac{64}{3119}\sqrt{758}e^{16} + \frac{64}{3119}\sqrt{1263}e^{35}, \frac{128}{3119}\sqrt{134}e^{13} + \frac{64}{3119}\sqrt{930}e^{26} + \frac{64}{3119}\sqrt{551}e^{47}$	$(\frac{704}{3119}, -\frac{448}{3119}, -\frac{896}{3119}, \frac{352}{3119}, \frac{1856}{3119}, \frac{256}{3119}, -\frac{544}{3119}, \frac{960}{3119}, -\frac{192}{3119})$ $+ \frac{384}{3119}\sqrt{74}e^5 \otimes e_9$	{13457, 135}
942:383	$0, 0, 0, 0, 0, \frac{90}{647}\sqrt{5}e^{12}, \frac{10}{647}\sqrt{865}e^{34}, \frac{10}{647}\sqrt{1085}e^{16} + \frac{20}{647}\sqrt{345}e^{35},$ $\frac{10}{647}\sqrt{1295}e^{14} + \frac{20}{647}\sqrt{165}e^{26} + \frac{5}{647}\sqrt{2290}e^{37}$	$(\frac{110}{647}, -\frac{70}{647}, \frac{55}{647}, -\frac{140}{647}, \frac{95}{647}, \frac{40}{647}, -\frac{85}{647}, \frac{150}{647}, -\frac{30}{647})$ $+ \frac{25}{647}\sqrt{246}e^5 \otimes e_9$	{234789, 469}
942:383	$0, 0, 0, 0, 0, \frac{10}{3733}\sqrt{561}e^{12}, \frac{10}{3733}\sqrt{1598}e^{34},$ $\frac{10}{3733}\sqrt{1177}e^{16} + \frac{5}{3733}\sqrt{5754}e^{35}, \frac{10}{3733}\sqrt{1489}e^{14} + \frac{15}{3733}\sqrt{182}e^{26} + \frac{5}{3733}\sqrt{6938}e^{37}$	$(-\frac{110}{3733}, \frac{85}{3733}, -\frac{55}{3733}, \frac{170}{3733}, -\frac{80}{3733}, -\frac{25}{3733}, \frac{115}{3733}, -\frac{135}{3733}, \frac{60}{3733})$ $+ \frac{5}{3733}\sqrt{6690}e^3 \otimes e_5$	{1367, 156}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
942:383	$0, 0, 0, 0, 0, \frac{11}{761}\sqrt{390}e^{12}, \frac{44}{761}\sqrt{65}e^{34}, \frac{220}{761}\sqrt{3}e^{16} + \frac{110}{761}\sqrt{21}e^{35},$ $\frac{11}{761}\sqrt{2390}e^{14} + \frac{44}{761}\sqrt{30}e^{26} + \frac{11}{761}\sqrt{930}e^{37}$	$(-\frac{198}{761}, \frac{209}{761}, -\frac{99}{761}, \frac{418}{761}, -\frac{88}{761}, \frac{11}{761}, \frac{319}{761}, -\frac{187}{761}, \frac{220}{761})$ $+ \frac{33}{761}\sqrt{710}e^4 \otimes e_8$	{13789, 1589}
942:384	$0, 0, 0, 0, 0, \frac{56}{3263}\sqrt{577}e^{12}, \frac{112}{3263}\sqrt{10}e^{34},$ $\frac{112}{3263}\sqrt{307}e^{13} + \frac{56}{3263}\sqrt{382}e^{26} + \frac{168}{3263}\sqrt{179}e^{45}, \frac{56}{3263}\sqrt{1266}e^{16} + \frac{280}{3263}\sqrt{43}e^{37}$	$(-\frac{112}{3263}, \frac{308}{3263}, \frac{616}{3263}, -\frac{1148}{3263}, \frac{1652}{3263}, \frac{196}{3263}, -\frac{532}{3263}, \frac{504}{3263}, \frac{84}{3263})$ $+ \frac{112}{3263}\sqrt{690}e^5 \otimes e_9$	{246789, 58}
942:384	$0, 0, 0, 0, 0, \frac{88}{3263}\sqrt{433}e^{12}, \frac{352}{3263}\sqrt{85}e^{34},$ $\frac{176}{3263}\sqrt{163}e^{13} + \frac{88}{3263}\sqrt{434}e^{26} + \frac{88}{3263}\sqrt{165}e^{45}, \frac{792}{3263}\sqrt{2}e^{16} + \frac{88}{3263}\sqrt{379}e^{37}$	$(\frac{704}{3263}, -\frac{220}{3263}, -\frac{440}{3263}, \frac{2068}{3263}, -\frac{1804}{3263}, \frac{484}{3263}, \frac{1628}{3263}, \frac{264}{3263}, \frac{1188}{3263})$ $+ \frac{176}{3263}\sqrt{654}e^4 \otimes e_5$	{23469, 357}
942:385	$0, 0, 0, 0, 0, \frac{14}{201}\sqrt{39}e^{12}, \frac{14}{67}e^{34},$ $\frac{14}{201}\sqrt{71}e^{14} + \frac{28}{201}\sqrt{14}e^{26} + \frac{56}{67}e^{35}, \frac{14}{201}\sqrt{141}e^{16} + \frac{7}{201}\sqrt{22}e^{37}$	$(-\frac{14}{67}, \frac{14}{67}, -\frac{21}{67}, \frac{28}{67}, \frac{35}{67}, 0, \frac{7}{67}, \frac{14}{67}, -\frac{14}{67})$ $+ \frac{7}{201}\sqrt{1022}e^5 \otimes e_9$	{1279, 23689}
942:385	$0, 0, 0, 0, 0, \frac{14}{613}\sqrt{165}e^{12}, \frac{42}{613}\sqrt{139}e^{34},$ $\frac{14}{613}\sqrt{57}e^{14} + \frac{14}{613}\sqrt{651}e^{26} + \frac{175}{613}\sqrt{6}e^{35}, \frac{7}{613}\sqrt{2082}e^{16} + \frac{7}{613}\sqrt{5622}e^{37}$	$(\frac{189}{613}, -\frac{84}{613}, \frac{231}{613}, -\frac{168}{613}, -\frac{210}{613}, \frac{105}{613}, \frac{63}{613}, \frac{21}{613}, \frac{294}{613})$ $+ \frac{7}{613}\sqrt{9282}e^3 \otimes e_5$	{349, 4579}
942:386	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{13}e^{12}, \frac{2}{13}\sqrt{13}e^{34}, \frac{2}{13}\sqrt{26}e^{16} + \frac{2}{13}\sqrt{26}e^{37},$ $\frac{2}{13}\sqrt{91}e^{13} + \frac{2}{13}\sqrt{13}e^{26} + \frac{1}{13}\sqrt{13}e^{47}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{13}\sqrt{273}e^5 \otimes e_8$	{123489, 135679}
942:386	$0, 0, 0, 0, 0, \frac{11}{169}\sqrt{151}e^{12}, \frac{11}{169}\sqrt{58}e^{34}, \frac{11}{169}\sqrt{21}e^{16} + \frac{66}{169}\sqrt{2}e^{37},$ $\frac{11}{169}\sqrt{115}e^{13} + \frac{11}{169}\sqrt{165}e^{26} + \frac{11}{169}\sqrt{21}e^{47}$	$(\frac{22}{169}, \frac{11}{169}, \frac{22}{169}, \frac{11}{169}, -\frac{110}{169}, \frac{33}{169}, \frac{33}{169}, \frac{55}{169}, \frac{44}{169})$ $+ \frac{33}{169}\sqrt{31}e^2 \otimes e_5$	{2367, 3458}
942:386	$0, 0, 0, 0, 0, \frac{92}{637}\sqrt{21}e^{12}, \frac{23}{637}\sqrt{22}e^{34}, \frac{46}{637}\sqrt{122}e^{16} + \frac{46}{637}\sqrt{57}e^{37},$ $\frac{23}{637}\sqrt{266}e^{13} + \frac{46}{637}\sqrt{57}e^{26} + \frac{23}{637}\sqrt{130}e^{47}$	$(\frac{92}{637}, \frac{46}{637}, \frac{92}{637}, \frac{46}{637}, -\frac{437}{637}, \frac{138}{637}, \frac{138}{637}, \frac{230}{637}, \frac{184}{637})$ $+ \frac{23}{637}\sqrt{1074}e^1 \otimes e_5$	{123478, 136}
942:386	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{1}{5}\sqrt{2}e^{34}, \frac{2}{5}e^{16} + \frac{2}{5}e^{37},$ $\frac{1}{5}\sqrt{14}e^{13} + \frac{1}{5}\sqrt{10}e^{26} + \frac{1}{5}\sqrt{10}e^{47}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{5}\sqrt{42}e^5 \otimes e_9$	{12345678, 135}
942:387	$0, 0, 0, 0, 0, \frac{46}{255}\sqrt{19}e^{12}, \frac{46}{765}\sqrt{19}e^{34}, \frac{23}{765}\sqrt{862}e^{16} + \frac{23}{765}\sqrt{354}e^{37},$ $\frac{23}{255}\sqrt{58}e^{15} + \frac{46}{255}\sqrt{5}e^{26} + \frac{46}{765}\sqrt{107}e^{47}$	$(\frac{253}{765}, -\frac{46}{255}, \frac{253}{765}, -\frac{46}{255}, -\frac{92}{255}, \frac{23}{153}, \frac{23}{153}, \frac{368}{765}, -\frac{23}{765})$ $+ \frac{23}{765}\sqrt{1302}e^1 \otimes e_5$	{128, 1467}
942:387	$0, 0, 0, 0, 0, \frac{98}{1203}\sqrt{6}e^{12}, \frac{14}{1203}\sqrt{1203}e^{34},$ $\frac{14}{1203}\sqrt{1281}e^{16} + \frac{14}{1203}\sqrt{1713}e^{37}, \frac{14}{401}\sqrt{155}e^{15} + \frac{56}{1203}\sqrt{78}e^{26} + \frac{14}{1203}\sqrt{249}e^{47}$	$(\frac{77}{401}, -\frac{49}{401}, \frac{77}{401}, -\frac{49}{401}, -\frac{98}{401}, \frac{28}{401}, \frac{28}{401}, \frac{105}{401}, -\frac{21}{401})$ $- \frac{28}{401}\sqrt{86}e^3 \otimes e_9$	{1234568, 1357, 245789, 569}
942:387	$0, 0, 0, 0, 0, \frac{98}{1203}\sqrt{6}e^{12}, \frac{14}{1203}\sqrt{1203}e^{34},$ $\frac{14}{1203}\sqrt{1281}e^{16} + \frac{14}{1203}\sqrt{1713}e^{37}, \frac{14}{401}\sqrt{155}e^{15} + \frac{56}{1203}\sqrt{78}e^{26} + \frac{14}{1203}\sqrt{249}e^{47}$	$(\frac{77}{401}, -\frac{49}{401}, \frac{77}{401}, -\frac{49}{401}, -\frac{98}{401}, \frac{28}{401}, \frac{28}{401}, \frac{105}{401}, -\frac{21}{401})$ $+ \frac{28}{401}\sqrt{86}e^3 \otimes e_9$	{1234568, 1357, 245789, 569}
942:387	$0, 0, 0, 0, 0, \frac{5}{153}\sqrt{130}e^{12}, \frac{20}{153}\sqrt{5}e^{34}, \frac{10}{153}\sqrt{35}e^{16} + \frac{20}{153}\sqrt{35}e^{37},$ $\frac{5}{51}\sqrt{70}e^{15} + \frac{20}{153}\sqrt{5}e^{26} + \frac{5}{153}\sqrt{290}e^{47}$	$(-\frac{40}{153}, \frac{5}{17}, -\frac{40}{153}, \frac{5}{17}, \frac{10}{17}, \frac{5}{153}, \frac{5}{153}, -\frac{35}{153}, \frac{50}{153})$ $+ \frac{5}{153}\sqrt{1290}e^5 \otimes e_8$	{14789, 3468}
941:1	$0, 0, 0, 0, 0, \frac{12}{1673}\sqrt{335}e^{12}, \frac{12}{1673}\sqrt{2747}e^{13}, \frac{3}{1673}\sqrt{58290}e^{23},$ $\frac{6}{1673}\sqrt{7169}e^{16}$	$(-\frac{402}{1673}, \frac{408}{1673}, \frac{207}{1673}, \frac{180}{1673}, \frac{180}{1673}, \frac{6}{1673}, -\frac{195}{1673}, \frac{615}{1673}, -\frac{396}{1673})$ $+ \frac{3}{1673}\sqrt{94202}e^2 \otimes e_7 + \frac{6}{1673}\sqrt{26465}e^3 \otimes e_9$	{245689, 24689, 2689, 34578, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{4}{3465}\sqrt{24418}e^{12}, \frac{2}{3465}\sqrt{142719}e^{13}, \frac{2}{3465}\sqrt{295963}e^{23},$ $\frac{4}{3465}\sqrt{76622}e^{16}$	$(\frac{439}{3465}, -\frac{619}{3465}, \frac{24}{385}, -\frac{626}{3465}, \frac{367}{1155}, -\frac{4}{77}, \frac{131}{693}, -\frac{403}{3465}, \frac{37}{495})$ $+ \frac{2}{1155}\sqrt{66518}e^1 \otimes e_8 + \frac{2}{3465}\sqrt{330485}e^5 \otimes e_9 + \frac{2}{3465}\sqrt{396582}e^3 \otimes e_4$	{1239, 14567, 24689, 3578}
941:1	$0, 0, 0, 0, 0, \frac{3}{1673}\sqrt{58290}e^{12}, \frac{12}{1673}\sqrt{2747}e^{13}, \frac{12}{1673}\sqrt{335}e^{23},$ $\frac{6}{1673}\sqrt{7169}e^{16}$	$(-\frac{1}{239}, \frac{408}{1673}, -\frac{188}{1673}, -\frac{610}{1673}, \frac{180}{1673}, \frac{401}{1673}, -\frac{195}{1673}, \frac{220}{1673}, \frac{394}{1673})$ $+ \frac{3}{1673}\sqrt{94202}e^2 \otimes e_7 + \frac{6}{1673}\sqrt{26465}e^1 \otimes e_4$	{12359, 1239, 1567, 167, 245689, 24689, 34578, 3478}
941:1	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{1}{71}\sqrt{1038}e^{13}, \frac{1}{355}\sqrt{13494}e^{23},$ $\frac{2}{355}\sqrt{4498}e^{16}$	$(\frac{13}{71}, -\frac{36}{355}, -\frac{72}{355}, \frac{166}{355}, \frac{42}{355}, \frac{29}{355}, -\frac{7}{355}, -\frac{108}{355}, \frac{94}{355})$ $+ \frac{2}{355}\sqrt{10726}e^4 \otimes e_7 + \frac{3}{355}\sqrt{7266}e^1 \otimes e_8$	{123459, 12349, 1567, 167, 245689, 24689, 3578, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:1	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{230}e^{12}, \frac{1}{93}\sqrt{598}e^{13}, \frac{2}{93}\sqrt{230}e^{23}, \frac{2}{93}\sqrt{161}e^{16}$	$(\frac{8}{93}, \frac{8}{93}, -\frac{23}{93}, \frac{10}{93}, \frac{10}{93}, \frac{16}{93}, -\frac{5}{31}, -\frac{5}{31}, \frac{8}{31})$ $+\frac{1}{31}\sqrt{230}e^1 \otimes e_8 - \frac{2}{93}\sqrt{437}e^2 \otimes e_7$	{123459, 12349, 1239, 14567, 1467, 167, 245689, 24689, 2689, 34578, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{230}e^{12}, \frac{1}{93}\sqrt{598}e^{13}, \frac{2}{93}\sqrt{230}e^{23}, \frac{2}{93}\sqrt{161}e^{16}$	$(\frac{8}{93}, \frac{8}{93}, -\frac{23}{93}, \frac{10}{93}, \frac{10}{93}, \frac{16}{93}, -\frac{5}{31}, -\frac{5}{31}, \frac{8}{31})$ $+\frac{1}{31}\sqrt{230}e^1 \otimes e_8 + \frac{2}{93}\sqrt{437}e^2 \otimes e_7$	{123459, 12349, 1239, 14567, 1467, 167, 245689, 24689, 2689, 34578, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{2}{1147}\sqrt{6477}e^{12}, \frac{2}{1147}\sqrt{35814}e^{13}, \frac{2}{1147}\sqrt{6477}e^{23}, \frac{2}{1147}\sqrt{25273}e^{16}$	$(-\frac{46}{1147}, -\frac{9}{1147}, \frac{153}{1147}, \frac{300}{1147}, \frac{361}{1147}, -\frac{55}{1147}, \frac{107}{1147}, \frac{144}{1147}, -\frac{101}{1147})$ $+\frac{2}{1147}\sqrt{49911}e^1 \otimes e_4 + \frac{2}{1147}\sqrt{49911}e^3 \otimes e_9 + \frac{4}{1147}\sqrt{8509}e^5 \otimes e_7$	{12789, 13568, 245689, 3478}
941:1	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{7458}e^{12}, \frac{1}{143}\sqrt{2486}e^{13}, \frac{1}{143}\sqrt{7458}e^{23}, \frac{2}{143}\sqrt{2486}e^{16}$	$(\frac{5}{13}, -\frac{40}{143}, -\frac{18}{143}, \frac{2}{11}, \frac{2}{11}, \frac{15}{143}, \frac{37}{143}, -\frac{58}{143}, \frac{70}{143})$ $+\frac{3}{143}\sqrt{2938}e^1 \otimes e_8$	{123459, 12349, 1239, 14567, 1467, 167, 245689, 24689, 2689, 34578, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{56}\sqrt{182}e^{13}, \frac{1}{28}\sqrt{70}e^{23}, \frac{5}{56}\sqrt{14}e^{16}$	$(\frac{3}{112}, -\frac{1}{8}, \frac{5}{28}, -\frac{25}{112}, \frac{17}{56}, -\frac{11}{112}, \frac{23}{56}, \frac{3}{56}, -\frac{1}{14})$ $+\frac{1}{14}\sqrt{21}e^5 \otimes e_8 + \frac{1}{56}\sqrt{602}e^3 \otimes e_9 + \frac{1}{8}\sqrt{10}e^1 \otimes e_4$	{12789, 1368, 24689, 3478}
941:1	$0, 0, 0, 0, 0, \frac{1}{820}\sqrt{45489}e^{12}, \frac{1}{164}\sqrt{1542}e^{13}, \frac{1}{820}\sqrt{45489}e^{23}, \frac{1}{820}\sqrt{99202}e^{16}$	$(\frac{29}{328}, -\frac{99}{820}, -\frac{171}{1640}, \frac{61}{205}, \frac{303}{820}, -\frac{53}{1640}, -\frac{13}{820}, -\frac{9}{40}, \frac{23}{410})$ $+\frac{1}{410}\sqrt{21331}e^4 \otimes e_7 + \frac{3}{164}\sqrt{514}e^5 \otimes e_9 + \frac{3}{820}\sqrt{20046}e^1 \otimes e_8$	{12349, 1567, 24689, 3578}
941:1	$0, 0, 0, 0, 0, \frac{12}{443}\sqrt{203}e^{12}, \frac{42}{443}\sqrt{3}e^{13}, \frac{12}{443}\sqrt{203}e^{23}, \frac{6}{443}\sqrt{665}e^{16}$	$(\frac{74}{443}, -\frac{5}{443}, -\frac{47}{443}, -\frac{131}{443}, \frac{48}{443}, \frac{69}{443}, \frac{27}{443}, -\frac{52}{443}, \frac{143}{443})$ $+\frac{36}{443}\sqrt{42}e^1 \otimes e_8 + \frac{6}{443}\sqrt{1253}e^2 \otimes e_4$	{123579, 12379, 1456, 146, 256789, 26789, 3458, 348}
941:1	$0, 0, 0, 0, 0, \frac{198}{1673}\sqrt{6}e^{12}, \frac{18}{1673}\sqrt{671}e^{13}, \frac{99}{1673}\sqrt{86}e^{23}, \frac{18}{1673}\sqrt{110}e^{16}$	$(-\frac{92}{1673}, \frac{386}{1673}, -\frac{59}{239}, \frac{864}{1673}, \frac{26}{239}, \frac{42}{239}, -\frac{505}{1673}, -\frac{27}{1673}, \frac{202}{1673})$ $+\frac{198}{1673}\sqrt{31}e^4 \otimes e_8 + \frac{9}{1673}\sqrt{17798}e^2 \otimes e_7$	{123459, 12349, 14567, 1467, 25689, 2689, 3578, 378}
941:1	$0, 0, 0, 0, 0, \frac{2}{3929}\sqrt{38958}e^{12}, \frac{6}{3929}\sqrt{5587}e^{13}, \frac{2}{3929}\sqrt{597054}e^{23}, \frac{6}{3929}\sqrt{29747}e^{16}$	$(-\frac{256}{3929}, \frac{61}{3929}, \frac{455}{3929}, -\frac{845}{3929}, \frac{1422}{3929}, -\frac{195}{3929}, \frac{199}{3929}, \frac{516}{3929}, \frac{451}{3929})$ $+\frac{4}{3929}\sqrt{125934}e^5 \otimes e_8 + \frac{52}{3929}\sqrt{906}e^3 \otimes e_9 + \frac{6}{3929}\sqrt{58135}e^2 \otimes e_4$	{1289, 134678, 26789, 348}
941:1	$0, 0, 0, 0, 0, \frac{10}{363}\sqrt{10}e^{12}, \frac{10}{1089}\sqrt{930}e^{13}, \frac{10}{1089}\sqrt{1535}e^{23}, \frac{5}{1089}\sqrt{730}e^{16}$	$(-\frac{5}{99}, \frac{50}{363}, -\frac{5}{121}, -\frac{295}{1089}, \frac{355}{1089}, \frac{95}{1089}, -\frac{100}{1089}, \frac{35}{363}, \frac{40}{1089})$ $+\frac{25}{1089}\sqrt{290}e^2 \otimes e_7 + \frac{5}{1089}\sqrt{5570}e^5 \otimes e_8 + \frac{5}{1089}\sqrt{7430}e^3 \otimes e_4$	{123569, 1457, 2489, 3678}
941:1	$0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{8}{197}\sqrt{17}e^{13}, \frac{12}{197}\sqrt{17}e^{23}, \frac{4}{197}\sqrt{170}e^{16}$	$(\frac{7}{197}, \frac{7}{197}, -\frac{34}{197}, \frac{18}{197}, \frac{55}{197}, \frac{14}{197}, -\frac{27}{197}, -\frac{27}{197}, \frac{21}{197})$ $+\frac{18}{197}\sqrt{17}e^1 \otimes e_8 + \frac{2}{197}\sqrt{1037}e^2 \otimes e_7 + \frac{2}{197}\sqrt{629}e^5 \otimes e_9$	{12349, 1239, 14567, 1567, 24689, 2689, 34578, 3578}
941:1	$0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{8}{197}\sqrt{17}e^{13}, \frac{12}{197}\sqrt{17}e^{23}, \frac{4}{197}\sqrt{170}e^{16}$	$(\frac{7}{197}, \frac{7}{197}, -\frac{34}{197}, \frac{18}{197}, \frac{55}{197}, \frac{14}{197}, -\frac{27}{197}, -\frac{27}{197}, \frac{21}{197})$ $+\frac{18}{197}\sqrt{17}e^1 \otimes e_8 - \frac{2}{197}\sqrt{1037}e^2 \otimes e_7 + \frac{2}{197}\sqrt{629}e^5 \otimes e_9$	{12349, 1239, 14567, 1567, 24689, 2689, 34578, 3578}
941:1	$0, 0, 0, 0, 0, \frac{4}{1819}\sqrt{1434}e^{12}, \frac{1}{1819}\sqrt{156306}e^{13}, \frac{3}{1819}\sqrt{20554}e^{23}, \frac{1}{1819}\sqrt{192634}e^{16}$	$(\frac{80}{1819}, -\frac{279}{1819}, \frac{120}{1819}, \frac{156}{1819}, \frac{439}{1819}, -\frac{199}{1819}, \frac{200}{1819}, -\frac{159}{1819}, -\frac{7}{107})$ $+\frac{1}{1819}\sqrt{135274}e^5 \otimes e_7 + \frac{2}{1819}\sqrt{81021}e^3 \otimes e_9 + \frac{6}{1819}\sqrt{9321}e^1 \otimes e_8$	{245689, 25689, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{533}e^{12}, \frac{2}{185}\sqrt{41}e^{13}, \frac{2}{185}\sqrt{2337}e^{23}, \frac{12}{185}\sqrt{41}e^{16}$	$(-\frac{29}{185}, \frac{27}{185}, \frac{51}{185}, -\frac{11}{37}, \frac{21}{185}, -\frac{2}{185}, \frac{22}{185}, \frac{78}{185}, -\frac{31}{185})$ $+\frac{4}{185}\sqrt{779}e^2 \otimes e_4 + \frac{4}{185}\sqrt{902}e^3 \otimes e_9$	{125789, 12789, 134568, 13468, 25689, 2689, 34578, 3478}
941:1	$0, 0, 0, 0, 0, \frac{2}{3277}\sqrt{286271}e^{12}, \frac{2}{3277}\sqrt{206881}e^{13}, \frac{8}{3277}\sqrt{10274}e^{23}, \frac{4}{3277}\sqrt{39695}e^{16}$	$(\frac{67}{3277}, \frac{504}{3277}, -\frac{497}{3277}, -\frac{867}{3277}, \frac{941}{3277}, \frac{571}{3277}, -\frac{430}{3277}, \frac{7}{3277}, \frac{22}{113})$ $+\frac{2}{3277}\sqrt{300281}e^5 \otimes e_8 + \frac{2}{3277}\sqrt{544055}e^1 \otimes e_4 + \frac{2}{3277}\sqrt{546857}e^2 \otimes e_7$	{12359, 1567, 24689, 3478}
941:1	$0, 0, 0, 0, 0, \frac{3}{752}\sqrt{6573}e^{12}, \frac{63}{752}\sqrt{2}e^{13}, \frac{3}{752}\sqrt{6573}e^{23}, \frac{15}{752}\sqrt{210}e^{16}$	$(\frac{187}{1504}, \frac{5}{376}, -\frac{211}{1504}, -\frac{179}{752}, \frac{177}{752}, \frac{207}{1504}, -\frac{3}{188}, -\frac{191}{1504}, \frac{197}{752})$ $+\frac{27}{376}\sqrt{42}e^1 \otimes e_8 + \frac{3}{752}\sqrt{10542}e^2 \otimes e_4 + \frac{63}{752}\sqrt{10}e^5 \otimes e_7$	{12359, 1467, 25689, 3478}
941:1	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13}e^{12}, \frac{2}{29}\sqrt{65}e^{13}, \frac{2}{29}\sqrt{39}e^{23}, \frac{4}{29}\sqrt{26}e^{16}$	$(\frac{7}{29}, -\frac{1}{29}, \frac{3}{29}, -\frac{19}{29}, \frac{5}{29}, \frac{6}{29}, \frac{10}{29}, \frac{2}{29}, \frac{13}{29})$ $+\frac{4}{29}\sqrt{78}e^1 \otimes e_4$	{123589, 12389, 12579, 1279, 1356, 136, 15678, 1678, 23456789, 2346789, 24569, 2469, 3457, 347, 458, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:1	$0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30}e^{12}, \frac{9}{38}\sqrt{2}e^{13}, \frac{3}{38}\sqrt{30}e^{23}, \frac{3}{38}\sqrt{3}e^{16}$	$(-\frac{2}{19}, \frac{13}{38}, -\frac{7}{76}, \frac{39}{76}, -\frac{7}{19}, \frac{9}{38}, -\frac{15}{76}, \frac{1}{4}, \frac{5}{38})$ $+\frac{3}{38}\sqrt{111}e^2 \otimes e_5 + \frac{9}{38}\sqrt{10}e^4 \otimes e_7$	{12349, 12789, 134568, 1567, 23679, 24689, 3578, 45}
941:1	$0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{14491}e^{13}, \frac{2}{177}\sqrt{7414}e^{23}, \frac{2}{531}\sqrt{15502}e^{16}$	$(\frac{112}{531}, -\frac{83}{531}, -\frac{20}{177}, 1, \frac{95}{531}, \frac{29}{531}, \frac{52}{531}, -\frac{143}{531}, \frac{47}{177})$ $+\frac{4}{531}\sqrt{36733}e^4 \otimes e_8$	{1234567, 123467, 12568, 1268, 135789, 13789, 1459, 149, 234, 2345, 2578, 278, 35689, 3689, 45679, 4679}
941:1	$0, 0, 0, 0, 0, \frac{1}{689}\sqrt{1974}e^{12}, \frac{9}{689}\sqrt{282}e^{13}, \frac{1}{689}\sqrt{57810}e^{23}, \frac{15}{689}\sqrt{94}e^{16}$	$(-\frac{94}{689}, \frac{67}{689}, \frac{20}{689}, \frac{55}{689}, \frac{228}{689}, -\frac{27}{689}, -\frac{74}{689}, \frac{87}{689}, -\frac{121}{689})$ $+\frac{1}{689}\sqrt{48786}e^5 \otimes e_8 + \frac{1}{689}\sqrt{70782}e^3 \otimes e_9 + \frac{6}{689}\sqrt{1645}e^2 \otimes e_7$	{123456, 12356, 14579, 1579}
941:1	$0, 0, 0, 0, 0, \frac{6}{3665}\sqrt{40107}e^{12}, \frac{2}{3665}\sqrt{196847}e^{13}, \frac{12}{3665}\sqrt{922}e^{23}, \frac{4}{3665}\sqrt{82058}e^{16}$	$(-\frac{176}{3665}, \frac{571}{3665}, -\frac{35}{733}, -\frac{1098}{3665}, \frac{1141}{3665}, \frac{79}{733}, -\frac{351}{3665}, \frac{396}{3665}, \frac{219}{3665})$ $+\frac{2}{3665}\sqrt{376637}e^5 \otimes e_9 + \frac{2}{3665}\sqrt{508022}e^2 \otimes e_7 + \frac{6}{3665}\sqrt{72838}e^1 \otimes e_4$	{1239, 1567, 24689, 34578}
941:1	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{210}e^{12}, \frac{3}{49}\sqrt{14}e^{13}, \frac{1}{49}\sqrt{714}e^{23}, \frac{3}{49}\sqrt{42}e^{16}$	$(-\frac{2}{49}, -\frac{1}{7}, \frac{10}{49}, \frac{24}{49}, \frac{5}{49}, -\frac{9}{49}, \frac{8}{49}, \frac{3}{49}, -\frac{11}{49})$ $+\frac{1}{49}\sqrt{798}e^4 \otimes e_8 + \frac{5}{49}\sqrt{42}e^3 \otimes e_9$	{123456, 12346, 14579, 1479, 23457, 2347, 4569, 469}
941:1	$0, 0, 0, 0, 0, \frac{1}{221}\sqrt{3243}e^{12}, \frac{6}{221}\sqrt{138}e^{13}, \frac{2}{221}\sqrt{1794}e^{23}, \frac{12}{221}\sqrt{23}e^{16}$	$(-\frac{19}{221}, -\frac{11}{221}, \frac{20}{221}, \frac{70}{221}, \frac{6}{17}, -\frac{30}{221}, \frac{1}{221}, \frac{9}{221}, -\frac{49}{221})$ $+\frac{11}{221}\sqrt{69}e^5 \otimes e_8 + \frac{1}{221}\sqrt{12489}e^3 \otimes e_9 + \frac{3}{221}\sqrt{805}e^4 \otimes e_7$	{123456, 1579, 2357, 4569}
941:1	$0, 0, 0, 0, 0, \frac{13}{432}\sqrt{139}e^{12}, \frac{13}{432}\sqrt{6}e^{13}, \frac{13}{432}\sqrt{139}e^{23}, \frac{13}{432}\sqrt{290}e^{16}$	$(\frac{127}{864}, -\frac{89}{432}, -\frac{11}{288}, \frac{23}{48}, \frac{25}{216}, -\frac{17}{288}, \frac{47}{432}, -\frac{211}{864}, \frac{19}{216})$ $+\frac{13}{432}\sqrt{314}e^4 \otimes e_9 + \frac{65}{144}\sqrt{2}e^1 \otimes e_8$	{123579, 12379, 1456, 146, 256789, 26789, 3458, 348}
941:1	$0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13}, \frac{1}{1403}\sqrt{439206}e^{23}, \frac{3}{1403}\sqrt{6186}e^{16}$	$(\frac{44}{1403}, \frac{35}{1403}, -\frac{294}{1403}, \frac{781}{1403}, \frac{772}{1403}, \frac{79}{1403}, -\frac{250}{1403}, -\frac{259}{1403}, \frac{123}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^4 \otimes e_7 + \frac{2}{1403}\sqrt{320641}e^5 \otimes e_8$	{1234569, 126789, 1348, 157, 23579, 2489, 3678, 456}
941:1	$0, 0, 0, 0, 0, \frac{14}{3609}\sqrt{3565}e^{12}, \frac{2}{3609}\sqrt{33511}e^{13}, \frac{2}{3609}\sqrt{571826}e^{23}, \frac{4}{1203}\sqrt{7843}e^{16}$	$(-\frac{364}{3609}, \frac{179}{1203}, -\frac{175}{1203}, \frac{1438}{3609}, \frac{1235}{3609}, \frac{173}{3609}, -\frac{889}{3609}, \frac{4}{1203}, -\frac{191}{3609})$ $+\frac{2}{3609}\sqrt{649543}e^5 \otimes e_9 + \frac{2}{3609}\sqrt{794282}e^4 \otimes e_8 + \frac{4}{1203}\sqrt{24955}e^2 \otimes e_7$	{12349, 14567, 2689, 3578}
941:1	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{377274}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13}, \frac{6}{1699}\sqrt{8587}e^{23}, \frac{3}{1699}\sqrt{30470}e^{16}$	$(-\frac{103}{1699}, \frac{181}{1699}, \frac{145}{1699}, \frac{873}{1699}, -\frac{686}{1699}, \frac{78}{1699}, \frac{42}{1699}, \frac{326}{1699}, -\frac{25}{1699})$ $+\frac{1}{1699}\sqrt{1218246}e^4 \otimes e_7 + \frac{2}{1699}\sqrt{343203}e^3 \otimes e_5$	{123469, 1256789, 1348, 157, 2379, 24589, 3678, 456}
941:1	$0, 0, 0, 0, 0, \frac{22}{419}\sqrt{65}e^{12}, \frac{4}{419}\sqrt{2002}e^{13}, \frac{22}{419}\sqrt{65}e^{23}, \frac{2}{419}\sqrt{286}e^{16}$	$(-\frac{59}{419}, \frac{166}{419}, -\frac{61}{419}, \frac{193}{419}, -\frac{93}{419}, \frac{107}{419}, -\frac{120}{419}, \frac{105}{419}, \frac{48}{419})$ $+\frac{286}{419}e^4 \otimes e_5 + \frac{2}{419}\sqrt{32318}e^2 \otimes e_7$	{1234, 1235, 14679, 15679, 2468, 2568, 34789, 35789}
941:1	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{39}e^{12}, \frac{1}{21}\sqrt{65}e^{13}, \frac{1}{7}\sqrt{13}e^{23}, \frac{2}{21}\sqrt{26}e^{16}$	$(-\frac{5}{42}, -\frac{1}{42}, \frac{5}{14}, \frac{3}{7}, -\frac{4}{21}, -\frac{1}{7}, \frac{5}{21}, \frac{1}{3}, -\frac{11}{42})$ $+\frac{13}{21}e^4 \otimes e_5 + \frac{2}{21}\sqrt{78}e^3 \otimes e_9$	{12346, 12356, 1479, 1579, 2347, 2357, 469, 569}
941:1	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{2}{209}\sqrt{598}e^{13}, \frac{4}{209}\sqrt{230}e^{23}, \frac{4}{209}\sqrt{161}e^{16}$	$(\frac{16}{209}, \frac{16}{209}, -\frac{46}{209}, -\frac{3}{209}, \frac{43}{209}, \frac{32}{209}, -\frac{30}{209}, -\frac{30}{209}, \frac{48}{209})$ $+\frac{46}{209}e^5 \otimes e_4 + \frac{4}{209}\sqrt{437}e^2 \otimes e_7 + \frac{6}{209}\sqrt{230}e^1 \otimes e_8$	{12349, 12359, 1467, 1567, 24689, 25689, 3478, 3578}
941:1	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{2}{209}\sqrt{598}e^{13}, \frac{4}{209}\sqrt{230}e^{23}, \frac{4}{209}\sqrt{161}e^{16}$	$(\frac{16}{209}, \frac{16}{209}, -\frac{46}{209}, -\frac{3}{209}, \frac{43}{209}, \frac{32}{209}, -\frac{30}{209}, -\frac{30}{209}, \frac{48}{209})$ $+\frac{46}{209}e^5 \otimes e_4 - \frac{4}{209}\sqrt{437}e^2 \otimes e_7 + \frac{6}{209}\sqrt{230}e^1 \otimes e_8$	{12349, 12359, 1467, 1567, 24689, 25689, 3478, 3578}
941:1	$0, 0, 0, 0, 0, \frac{15}{1531}\sqrt{1486}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13}, \frac{4}{1531}\sqrt{15603}e^{23}, \frac{13}{1531}\sqrt{1486}e^{16}$	$(\frac{113}{1531}, \frac{99}{1531}, -\frac{111}{1531}, \frac{745}{1531}, -\frac{630}{1531}, \frac{212}{1531}, -\frac{2}{1531}, -\frac{12}{1531}, \frac{325}{1531})$ $+\frac{1}{1531}\sqrt{875254}e^4 \otimes e_7 + \frac{2}{1531}\sqrt{291999}e^1 \otimes e_5$	{123489, 1279, 1346, 1678, 2356789, 24569, 357, 458}
941:1	$0, 0, 0, 0, 0, \frac{36}{3313}\sqrt{122}e^{12}, \frac{6}{3313}\sqrt{38613}e^{13}, \frac{6}{3313}\sqrt{41053}e^{23}, \frac{24}{3313}\sqrt{305}e^{16}$	$(-\frac{501}{3313}, \frac{777}{3313}, \frac{180}{3313}, -\frac{918}{3313}, \frac{873}{3313}, \frac{276}{3313}, -\frac{321}{3313}, \frac{957}{3313}, -\frac{225}{3313})$ $+\frac{6}{3313}\sqrt{35929}e^5 \otimes e_9 + \frac{6}{3313}\sqrt{73322}e^3 \otimes e_4 + \frac{6}{3313}\sqrt{75518}e^2 \otimes e_7$	{1239, 14567, 24689, 3578}
941:1	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{39}e^{12}, \frac{2}{29}\sqrt{65}e^{13}, \frac{6}{29}\sqrt{13}e^{23}, \frac{4}{29}\sqrt{26}e^{16}$	$(-\frac{5}{29}, -\frac{1}{29}, \frac{15}{29}, \frac{5}{29}, \frac{5}{29}, -\frac{6}{29}, \frac{10}{29}, \frac{14}{29}, -\frac{11}{29})$ $+\frac{4}{29}\sqrt{78}e^3 \otimes e_9$	{123456, 12346, 1236, 14579, 1479, 179, 23457, 2347, 237, 4569, 469, 69}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:1	$0, 0, 0, 0, 0, \frac{2}{79}\sqrt{345}e^{12}, \frac{2}{79}\sqrt{299}e^{13}, \frac{2}{79}\sqrt{345}e^{23}, \frac{6}{79}\sqrt{46}e^{16}$	$(-\frac{11}{79}, \frac{17}{79}, \frac{7}{79}, \frac{41}{79}, -\frac{29}{79}, \frac{6}{79}, -\frac{4}{79}, \frac{24}{79}, -\frac{5}{79})$ $+\frac{2}{79}\sqrt{874}e^2 \otimes e_5 + \frac{8}{79}\sqrt{46}e^4 \otimes e_9$	{12379, 1289, 1345678, 1456, 2369, 26789, 3458, 457}
941:1	$0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{3}e^{13}, \frac{6}{17}\sqrt{5}e^{23}, \frac{6}{17}\sqrt{2}e^{16}$	$(-\frac{1}{17}, \frac{7}{17}, \frac{1}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{6}{17}, 0, \frac{8}{17}, \frac{5}{17})$ $+\frac{6}{17}\sqrt{14}e^2 \otimes e_4$	{123579, 12379, 12589, 1289, 1345678, 134678, 1456, 146, 23569, 2369, 256789, 26789, 3458, 348, 457, 47}
941:1	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{2}{185}\sqrt{41}e^{13}, \frac{2}{185}\sqrt{533}e^{23}, \frac{12}{185}\sqrt{41}e^{16}$	$(\frac{3}{37}, \frac{27}{185}, \frac{7}{185}, -\frac{67}{185}, -\frac{11}{37}, \frac{42}{185}, \frac{22}{185}, \frac{34}{185}, \frac{57}{185})$ $+\frac{4}{185}\sqrt{779}e^2 \otimes e_5 + \frac{4}{185}\sqrt{902}e^1 \otimes e_4$	{1239, 12789, 13568, 1567, 234679, 24689, 34578, 45}
941:1	$0, 0, 0, 0, 0, \frac{10}{361}\sqrt{97}e^{12}, \frac{2}{361}\sqrt{2037}e^{13}, \frac{2}{361}\sqrt{10185}e^{23}, \frac{2}{361}\sqrt{582}e^{16}$	$(-\frac{13}{361}, \frac{71}{361}, \frac{73}{361}, -\frac{123}{361}, -\frac{121}{361}, \frac{58}{361}, \frac{60}{361}, \frac{144}{361}, \frac{45}{361})$ $+\frac{18}{361}\sqrt{194}e^2 \otimes e_4 + \frac{8}{361}\sqrt{970}e^3 \otimes e_5$	{1239, 125789, 13468, 14567, 23679, 25689, 3478, 45}
941:1	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{2}{527}\sqrt{45633}e^{13}, \frac{14}{527}\sqrt{861}e^{23}, \frac{4}{527}\sqrt{1722}e^{16}$	$(\frac{25}{527}, \frac{13}{527}, \frac{13}{31}, -\frac{353}{527}, \frac{87}{527}, \frac{38}{527}, \frac{246}{527}, \frac{234}{527}, \frac{63}{527})$ $+\frac{4}{527}\sqrt{31570}e^3 \otimes e_4$	{123569, 12369, 12456789, 1246789, 1358, 138, 1457, 147, 23579, 2379, 24589, 2489, 35678, 3678, 456, 46}
941:1	$0, 0, 0, 0, 0, \frac{2}{441}\sqrt{6322}e^{12}, \frac{2}{441}\sqrt{7303}e^{13}, \frac{10}{441}\sqrt{654}e^{23}, \frac{2}{441}\sqrt{4033}e^{16}$	$(\frac{16}{441}, \frac{1}{9}, -\frac{13}{147}, \frac{76}{147}, -\frac{169}{441}, \frac{65}{441}, -\frac{23}{441}, \frac{10}{441}, \frac{9}{49})$ $+\frac{2}{441}\sqrt{23217}e^2 \otimes e_5 + \frac{4}{441}\sqrt{5014}e^4 \otimes e_8$	{123479, 1289, 135678, 1456, 23469, 26789, 358, 457}
941:1	$0, 0, 0, 0, 0, \frac{1}{253}\sqrt{114}e^{12}, \frac{1}{253}\sqrt{7410}e^{13}, \frac{6}{253}\sqrt{133}e^{23}, \frac{3}{253}\sqrt{190}e^{16}$	$(\frac{29}{253}, -\frac{1}{11}, -\frac{5}{253}, -\frac{62}{253}, \frac{81}{253}, \frac{6}{253}, \frac{24}{253}, -\frac{28}{253}, \frac{35}{253})$ $+\frac{1}{253}\sqrt{6954}e^5 \otimes e_7 + \frac{2}{253}\sqrt{2337}e^3 \otimes e_4 + \frac{6}{253}\sqrt{285}e^1 \otimes e_8$	{12359, 1467, 245689, 378}
941:1	$0, 0, 0, 0, 0, \frac{4}{4029}\sqrt{16881}e^{12}, \frac{2}{4029}\sqrt{155570}e^{13}, \frac{8}{1343}\sqrt{2317}e^{23}, \frac{4}{4029}\sqrt{89039}e^{16}$	$(\frac{20}{237}, -\frac{832}{4029}, \frac{10}{79}, \frac{49}{4029}, \frac{3}{17}, -\frac{164}{1343}, \frac{50}{237}, -\frac{322}{4029}, -\frac{152}{4029})$ $+\frac{1}{1343}\sqrt{62890}e^1 \otimes e_8 + \frac{4}{4029}\sqrt{133062}e^3 \otimes e_9 + \frac{662}{4029}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:1	$0, 0, 0, 0, 0, \frac{1}{347}\sqrt{1554}e^{12}, \frac{1}{347}\sqrt{26418}e^{13}, \frac{1}{347}\sqrt{1554}e^{23}, \frac{1}{347}\sqrt{24346}e^{16}$	$(-\frac{56}{347}, \frac{45}{347}, -\frac{9}{347}, \frac{194}{347}, \frac{192}{347}, -\frac{11}{347}, -\frac{65}{347}, \frac{36}{347}, -\frac{67}{347})$ $+\frac{1}{347}\sqrt{80290}e^4 \otimes e_7 + \frac{3}{347}\sqrt{8806}e^5 \otimes e_9$	{1234568, 12567, 1349, 1789, 23578, 245, 3679, 4689}
941:1	$0, 0, 0, 0, 0, \frac{22}{357}\sqrt{2}e^{12}, \frac{11}{119}\sqrt{10}e^{13}, \frac{55}{357}\sqrt{6}e^{23}, \frac{11}{357}\sqrt{86}e^{16}$	$(-\frac{20}{119}, \frac{53}{357}, \frac{18}{119}, -\frac{4}{21}, \frac{115}{357}, -\frac{1}{51}, -\frac{2}{119}, \frac{107}{357}, -\frac{67}{357})$ $+\frac{110}{357}\sqrt{2}e^2 \otimes e_4 + \frac{11}{357}\sqrt{166}e^5 \otimes e_7 + \frac{22}{357}\sqrt{71}e^3 \otimes e_9$	{12789, 134568, 25689, 3478}
941:1	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{51}e^{13}, \frac{2}{27}\sqrt{34}e^{23}, \frac{2}{27}\sqrt{170}e^{16}$	$(-\frac{4}{27}, \frac{1}{27}, \frac{2}{9}, \frac{1}{27}, \frac{5}{27}, -\frac{9}{27}, \frac{2}{27}, \frac{7}{27}, -\frac{7}{27})$ $+\frac{2}{27}\sqrt{374}e^4 \otimes e_9$	{123579, 12379, 12589, 1289, 1345678, 134678, 1456, 146, 23569, 2369, 256789, 26789, 3458, 348, 457, 47}
941:1	$0, 0, 0, 0, 0, \frac{1}{1024}\sqrt{78735}e^{12}, \frac{1}{1024}\sqrt{24254}e^{13}, \frac{1}{1024}\sqrt{78735}e^{23}, \frac{3}{1024}\sqrt{10498}e^{16}$	$(\frac{167}{2048}, -\frac{37}{1024}, -\frac{121}{2048}, -\frac{109}{512}, \frac{311}{1024}, \frac{93}{2048}, \frac{23}{1024}, -\frac{195}{2048}, \frac{65}{512})$ $+\frac{1}{1024}\sqrt{80002}e^5 \otimes e_9 + \frac{1}{512}\sqrt{27874}e^2 \otimes e_4 + \frac{9}{1024}\sqrt{1810}e^1 \otimes e_8$	{12379, 1456, 26789, 3458}
941:1	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{10855}e^{12}, \frac{2}{659}\sqrt{26553}e^{13}, \frac{2}{659}\sqrt{6513}e^{23}, \frac{2}{659}\sqrt{13026}e^{16}$	$(\frac{91}{659}, -\frac{29}{659}, \frac{143}{659}, -\frac{243}{659}, -\frac{191}{659}, \frac{62}{659}, \frac{234}{659}, \frac{114}{659}, \frac{153}{659})$ $+\frac{2}{659}\sqrt{44422}e^3 \otimes e_5 + \frac{2}{659}\sqrt{53106}e^1 \otimes e_4$	{1239, 125789, 1368, 1567, 234679, 245689, 3478, 45}
941:1	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{128}\sqrt{16626}e^{13}, \frac{1}{128}\sqrt{2445}e^{23}, \frac{1}{64}\sqrt{815}e^{16}$	$(-\frac{25}{256}, \frac{9}{32}, -\frac{45}{256}, \frac{1}{128}, \frac{21}{128}, \frac{47}{256}, -\frac{35}{128}, \frac{27}{256}, \frac{11}{128})$ $+\frac{1}{128}\sqrt{34882}e^4 \otimes e_7$	{12345689, 1234689, 125679, 12679, 134, 1345, 1578, 178, 235789, 23789, 2459, 249, 3567, 367, 4568, 468}
941:1	$0, 0, 0, 0, 0, \frac{4}{1585}\sqrt{6193}e^{12}, \frac{1}{1585}\sqrt{327666}e^{13}, \frac{2}{1585}\sqrt{113163}e^{23}, \frac{2}{1585}\sqrt{62493}e^{16}$	$(\frac{356}{1585}, -\frac{316}{1585}, \frac{109}{1585}, -\frac{454}{1585}, \frac{174}{1585}, \frac{8}{317}, \frac{93}{317}, -\frac{207}{1585}, \frac{396}{1585})$ $+\frac{2}{1585}\sqrt{176782}e^3 \otimes e_4 + \frac{3}{1585}\sqrt{97962}e^1 \otimes e_8$	{12359, 1239, 14567, 1467, 245689, 24689, 3578, 378}
941:1	$0, 0, 0, 0, 0, \frac{5}{1251}\sqrt{12958}e^{12}, \frac{20}{1251}\sqrt{341}e^{13}, \frac{5}{417}\sqrt{682}e^{23}, \frac{110}{1251}\sqrt{31}e^{16}$	$(\frac{275}{1251}, -\frac{151}{1251}, -\frac{10}{417}, \frac{66}{139}, -\frac{500}{1251}, \frac{124}{1251}, \frac{245}{1251}, -\frac{181}{1251}, \frac{133}{417})$ $+\frac{5}{1251}\sqrt{27094}e^4 \otimes e_8 + \frac{5}{417}\sqrt{4526}e^1 \otimes e_5$	{12349, 12789, 1368, 1467, 2345679, 25689, 3578, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:1	$0, 0, 0, 0, 0, \frac{20}{1709}\sqrt{910}e^{12}, \frac{60}{1709}\sqrt{105}e^{13}, \frac{315}{1709}\sqrt{10}e^{23}, \frac{5}{1709}\sqrt{1330}e^{16}$	$(\frac{170}{1709}, -\frac{200}{1709}, \frac{205}{1709}, \frac{880}{1709}, -\frac{670}{1709}, -\frac{30}{1709}, \frac{375}{1709}, \frac{5}{1709}, \frac{140}{1709}) + \frac{35}{1709}\sqrt{1030}e^4 \otimes e_8 + \frac{5}{1709}\sqrt{58030}e^3 \otimes e_5$	{123469, 1256789, 138, 1457, 23479, 2589, 3678, 456}
941:1	$0, 0, 0, 0, 0, \frac{11}{138}\sqrt{65}e^{12}, \frac{1}{69}\sqrt{2002}e^{13}, \frac{11}{138}\sqrt{65}e^{23}, \frac{1}{138}\sqrt{286}e^{16}$	$(-\frac{59}{276}, \frac{83}{138}, -\frac{61}{276}, \frac{25}{138}, \frac{25}{138}, \frac{107}{276}, -\frac{10}{23}, \frac{35}{92}, \frac{4}{23}) + \frac{1}{138}\sqrt{32318}e^2 \otimes e_7$	{123, 1234, 12345, 145679, 14679, 1679, 24568, 2468, 268, 345789, 34789, 3789}
941:1	$0, 0, 0, 0, 0, \frac{24}{3949}\sqrt{335}e^{12}, \frac{24}{3949}\sqrt{2747}e^{13}, \frac{6}{3949}\sqrt{58290}e^{23}, \frac{12}{3949}\sqrt{7169}e^{16}$	$(-\frac{804}{3949}, \frac{816}{3949}, \frac{414}{3949}, -\frac{243}{3949}, \frac{963}{3949}, \frac{12}{3949}, -\frac{390}{3949}, \frac{1230}{3949}, -\frac{72}{359}) + \frac{1206}{3949}e^5 \otimes e_4 + \frac{12}{3949}\sqrt{26465}e^3 \otimes e_9 + \frac{6}{3949}\sqrt{94202}e^2 \otimes e_7$	{24689, 25689, 3478, 3578}
941:1	$0, 0, 0, 0, 0, \frac{2}{1769}\sqrt{8983}e^{12}, \frac{2}{1769}\sqrt{163767}e^{13}, \frac{3}{1769}\sqrt{64954}e^{23}, \frac{2}{1769}\sqrt{35241}e^{16}$	$(-\frac{230}{1769}, \frac{526}{1769}, \frac{65}{1769}, -\frac{626}{1769}, \frac{168}{1769}, \frac{296}{1769}, -\frac{165}{1769}, \frac{591}{1769}, \frac{66}{1769}) + \frac{1}{1769}\sqrt{1115274}e^2 \otimes e_7 + \frac{2}{1769}\sqrt{274327}e^3 \otimes e_4$	{123, 1235, 145679, 14679, 24568, 2468, 35789, 3789}
941:1	$0, 0, 0, 0, 0, \frac{2}{1849}\sqrt{16881}e^{12}, \frac{1}{1849}\sqrt{155570}e^{13}, \frac{12}{1849}\sqrt{2317}e^{23}, \frac{2}{1849}\sqrt{89039}e^{16}$	$(\frac{170}{1849}, -\frac{416}{1849}, \frac{255}{1849}, \frac{190}{1849}, \frac{190}{1849}, -\frac{246}{1849}, \frac{425}{1849}, -\frac{161}{1849}, -\frac{76}{1849}) + \frac{2}{1849}\sqrt{133062}e^3 \otimes e_9 + \frac{3}{1849}\sqrt{62890}e^1 \otimes e_8$	{245689, 24689, 2689, 34578, 3478, 378}
941:1	$0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{12}, \frac{3}{211}\sqrt{210}e^{13}, \frac{3}{422}\sqrt{861}e^{23}, \frac{3}{211}\sqrt{1407}e^{16}$	$(\frac{39}{844}, \frac{21}{422}, \frac{23}{211}, \frac{207}{422}, -\frac{339}{844}, -\frac{3}{844}, \frac{131}{844}, \frac{25}{422}, \frac{9}{211}) + \frac{3}{422}\sqrt{6783}e^4 \otimes e_9 + \frac{3}{422}\sqrt{9030}e^1 \otimes e_5$	{12389, 1279, 1346, 14678, 2356789, 2569, 3457, 458}
941:1	$0, 0, 0, 0, 0, \frac{4}{1531}\sqrt{15603}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13}, \frac{15}{1531}\sqrt{1486}e^{23}, \frac{13}{1531}\sqrt{1486}e^{16}$	$(-\frac{280}{1531}, \frac{99}{1531}, \frac{282}{1531}, \frac{745}{1531}, \frac{156}{1531}, -\frac{181}{1531}, \frac{2}{1531}, \frac{381}{1531}, -\frac{461}{1531}) + \frac{1}{1531}\sqrt{875254}e^4 \otimes e_7 + \frac{2}{1531}\sqrt{291999}e^3 \otimes e_9$	{123456, 12346, 1579, 179, 2357, 237, 4569, 469}
941:1	$0, 0, 0, 0, 0, \frac{2}{399}\sqrt{7458}e^{12}, \frac{2}{399}\sqrt{2486}e^{13}, \frac{2}{399}\sqrt{7458}e^{23}, \frac{4}{399}\sqrt{2486}e^{16}$	$(\frac{110}{399}, -\frac{80}{399}, -\frac{12}{133}, \frac{55}{133}, -\frac{61}{399}, \frac{10}{133}, \frac{74}{399}, -\frac{116}{399}, \frac{20}{57}) + \frac{226}{399}e^4 \otimes e_5 + \frac{2}{133}\sqrt{2938}e^1 \otimes e_8$	{12349, 12359, 1467, 1567, 24689, 25689, 3478, 3578}
941:1	$0, 0, 0, 0, 0, \frac{3}{362}\sqrt{2519}e^{12}, \frac{1}{181}\sqrt{2519}e^{13}, \frac{3}{362}\sqrt{2519}e^{23}, \frac{1}{362}\sqrt{25190}e^{16}$	$(-\frac{163}{724}, \frac{121}{362}, -\frac{53}{724}, \frac{187}{362}, \frac{45}{362}, \frac{79}{724}, -\frac{54}{181}, \frac{189}{724}, -\frac{21}{181}) + \frac{1}{181}\sqrt{16259}e^4 \otimes e_9 + \frac{5}{362}\sqrt{3206}e^2 \otimes e_7$	{12359, 1239, 14567, 1467, 25689, 2689, 34578, 3478}
941:1	$0, 0, 0, 0, 0, \frac{1}{342}\sqrt{9389}e^{12}, \frac{1}{342}\sqrt{17862}e^{13}, \frac{1}{171}\sqrt{7099}e^{23}, \frac{1}{171}\sqrt{5267}e^{16}$	$(-\frac{25}{342}, -\frac{1}{171}, \frac{23}{76}, \frac{59}{114}, -\frac{251}{684}, -\frac{3}{38}, \frac{157}{684}, \frac{203}{684}, -\frac{26}{171}) + \frac{1}{342}\sqrt{75570}e^3 \otimes e_5 + \frac{5}{342}\sqrt{2519}e^4 \otimes e_9$	{12346, 1245678, 1389, 1579, 2347, 2458, 36789, 569}
941:1	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{66}e^{12}, \frac{1}{64}\sqrt{506}e^{13}, \frac{1}{32}\sqrt{66}e^{23}, \frac{1}{64}\sqrt{770}e^{16}$	$(\frac{1}{128}, -\frac{5}{64}, \frac{9}{32}, -\frac{43}{128}, \frac{7}{64}, -\frac{9}{128}, \frac{37}{128}, \frac{13}{64}, -\frac{1}{16}) + \frac{1}{64}\sqrt{1254}e^1 \otimes e_4 + \frac{1}{64}\sqrt{1254}e^3 \otimes e_9$	{125789, 12789, 13568, 1368, 245689, 24689, 34578, 3478}
941:1	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{53}e^{13}, \frac{1}{33}\sqrt{159}e^{23}, \frac{2}{33}\sqrt{53}e^{16}$	$(\frac{5}{66}, \frac{7}{66}, \frac{3}{22}, 1, -\frac{20}{33}, \frac{2}{11}, \frac{7}{33}, \frac{8}{33}, \frac{17}{66}) + \frac{53}{33}e^4 \otimes e_5$	{12349, 12359, 124789, 125789, 13468, 13568, 1467, 1567, 234679, 235679, 24689, 25689, 3478, 3578, 4, 5}
941:2	$0, 0, 0, 0, 0, \frac{2}{75}\sqrt{42}e^{12}, \frac{7}{25}\sqrt{2}e^{13}, \frac{2}{75}\sqrt{42}e^{34}, \frac{2}{75}\sqrt{42}e^{16}$	$(\frac{4}{75}, \frac{2}{75}, \frac{2}{75}, -\frac{19}{75}, \frac{9}{25}, \frac{2}{25}, \frac{2}{25}, -\frac{17}{75}, \frac{2}{15}) + \frac{3}{25}\sqrt{14}e^1 \otimes e_8 + \frac{7}{25}\sqrt{2}e^3 \otimes e_4 + \frac{7}{25}\sqrt{2}e^5 \otimes e_7$	{236789, 245689, 378, 458}
941:2	$0, 0, 0, 0, 0, \frac{1}{1781}\sqrt{91542}e^{12}, \frac{8}{1781}\sqrt{803}e^{13}, \frac{11}{1781}\sqrt{7738}e^{34}, \frac{88}{1781}\sqrt{73}e^{16}$	$(-\frac{238}{1781}, \frac{146}{1781}, \frac{473}{1781}, \frac{313}{1781}, -\frac{490}{1781}, -\frac{92}{1781}, \frac{235}{1781}, \frac{786}{1781}, -\frac{330}{1781}) + \frac{1}{1781}\sqrt{1421310}e^3 \otimes e_9 + \frac{33}{1781}\sqrt{1022}e^4 \otimes e_5$	{124789, 12579, 1346, 13568, 24689, 2569, 347, 3578}
941:2	$0, 0, 0, 0, 0, \frac{1}{457}\sqrt{41602}e^{12}, \frac{1}{457}\sqrt{47058}e^{13}, \frac{2}{457}\sqrt{1023}e^{34}, \frac{2}{457}\sqrt{1023}e^{16}$	$(-\frac{73}{457}, \frac{191}{457}, \frac{193}{457}, -\frac{148}{457}, -\frac{150}{457}, \frac{118}{457}, \frac{120}{457}, \frac{45}{457}, \frac{45}{457}) + \frac{1}{457}\sqrt{137082}e^2 \otimes e_5 + \frac{1}{457}\sqrt{139810}e^3 \otimes e_4$	{123, 1247, 13569, 145679, 2367, 246, 3579, 459}
941:2	$0, 0, 0, 0, 0, \frac{4}{359}\sqrt{1610}e^{12}, \frac{4}{359}\sqrt{322}e^{13}, \frac{5}{359}\sqrt{1610}e^{34}, \frac{1}{359}\sqrt{6118}e^{16}$	$(-\frac{42}{359}, \frac{144}{359}, -\frac{68}{359}, \frac{51}{359}, \frac{41}{359}, \frac{102}{359}, -\frac{110}{359}, -\frac{17}{359}, \frac{60}{359}) + \frac{1}{359}\sqrt{58926}e^2 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^4 \otimes e_7$	{135678, 13678, 14568, 1468, 234569, 23469, 25679, 2679}
941:2	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{530}e^{12}, \frac{1}{82}\sqrt{318}e^{13}, \frac{1}{41}\sqrt{530}e^{34}, \frac{3}{82}\sqrt{53}e^{16}$	$(-\frac{11}{82}, \frac{37}{82}, -\frac{13}{164}, -\frac{19}{164}, \frac{71}{164}, \frac{13}{41}, -\frac{35}{164}, -\frac{8}{41}, \frac{15}{82}) + \frac{1}{82}\sqrt{4929}e^2 \otimes e_8 + \frac{3}{82}\sqrt{106}e^5 \otimes e_7$	{123479, 1259, 13678, 14568, 234569, 2679, 358, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{91}e^{12}, \frac{7}{47}\sqrt{6}e^{13}, \frac{2}{47}\sqrt{91}e^{34}, \frac{2}{47}\sqrt{91}e^{16}$	$(\frac{26}{141}, -\frac{8}{141}, \frac{13}{141}, -\frac{50}{141}, \frac{6}{47}, \frac{6}{47}, \frac{13}{47}, -\frac{37}{141}, \frac{44}{141})$ $+\frac{14}{47}\sqrt{3}e^3 \otimes e_4 + \frac{9}{47}\sqrt{14}e^1 \otimes e_8$	{2356789, 236789, 245689, 24689, 3578, 378, 458, 48}
941:2	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{129}e^{12}, \frac{1}{122}\sqrt{1290}e^{13}, \frac{1}{61}\sqrt{258}e^{34}, \frac{1}{61}\sqrt{559}e^{16}$	$(\frac{13}{122}, -\frac{15}{61}, -\frac{33}{244}, \frac{39}{122}, \frac{79}{244}, -\frac{17}{122}, -\frac{7}{244}, \frac{45}{61}, -\frac{2}{61})$ $+\frac{1}{122}\sqrt{2494}e^5 \otimes e_7 + \frac{1}{61}\sqrt{903}e^1 \otimes e_2 + \frac{9}{122}\sqrt{43}e^4 \otimes e_9$	{13589, 179, 2347, 2458}
941:2	$0, 0, 0, 0, 0, \frac{2}{577}\sqrt{4981}e^{12}, \frac{1}{577}\sqrt{128334}e^{13}, \frac{1}{577}\sqrt{33402}e^{34}, \frac{1}{577}\sqrt{33402}e^{16}$	$(-\frac{148}{577}, \frac{287}{577}, \frac{142}{577}, -\frac{151}{577}, \frac{48}{577}, \frac{139}{577}, -\frac{6}{577}, -\frac{9}{577}, -\frac{9}{577})$ $+\frac{16}{577}\sqrt{586}e^3 \otimes e_4 + \frac{1}{577}\sqrt{159978}e^2 \otimes e_7$	{123, 1235, 145679, 14679, 2456, 246, 3579, 379}
941:2	$0, 0, 0, 0, 0, \frac{1}{1781}\sqrt{91542}e^{12}, \frac{8}{1781}\sqrt{803}e^{13}, \frac{11}{1781}\sqrt{7738}e^{34}, \frac{88}{1781}\sqrt{73}e^{16}$	$(-\frac{238}{1781}, \frac{146}{1781}, \frac{473}{1781}, -\frac{380}{1781}, \frac{896}{1781}, -\frac{92}{1781}, \frac{235}{1781}, \frac{93}{1781}, -\frac{330}{1781})$ $+\frac{1}{1781}\sqrt{1421310}e^3 \otimes e_9 + \frac{33}{1781}\sqrt{1022}e^5 \otimes e_8$	{124789, 12579, 13456, 1368, 24689, 2569, 3457, 378}
941:2	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{4730}e^{12}, \frac{2}{223}\sqrt{215}e^{13}, \frac{1}{223}\sqrt{3182}e^{34}, \frac{1}{223}\sqrt{4558}e^{16}$	$(\frac{3}{223}, \frac{21}{223}, -\frac{25}{223}, -\frac{15}{223}, \frac{70}{223}, \frac{24}{223}, -\frac{22}{223}, -\frac{40}{223}, \frac{27}{223})$ $+\frac{3}{223}\sqrt{946}e^1 \otimes e_8 + \frac{4}{223}\sqrt{258}e^5 \otimes e_9 + \frac{6}{223}\sqrt{129}e^2 \otimes e_7$	{12349, 1567, 24689, 3578}
941:2	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{20305}e^{12}, \frac{2}{751}\sqrt{8515}e^{13}, \frac{4}{751}\sqrt{5502}e^{34}, \frac{8}{751}\sqrt{2227}e^{16}$	$(\frac{38}{751}, -\frac{67}{751}, -\frac{15}{751}, \frac{271}{751}, -\frac{224}{751}, -\frac{29}{751}, \frac{23}{751}, \frac{256}{751}, \frac{9}{751})$ $+\frac{4}{751}\sqrt{10218}e^1 \otimes e_5 + \frac{6}{751}\sqrt{5109}e^4 \otimes e_9$	{123789, 129, 13467, 1468, 235689, 25679, 345, 4578}
941:2	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{133}e^{12}, \frac{2}{47}\sqrt{247}e^{13}, \frac{4}{47}\sqrt{95}e^{34}, \frac{4}{47}\sqrt{95}e^{16}$	$(-\frac{6}{47}, \frac{1}{47}, \frac{1}{47}, \frac{27}{47}, \frac{8}{47}, -\frac{5}{47}, -\frac{5}{47}, \frac{28}{47}, -\frac{11}{47})$ $+\frac{2}{47}\sqrt{741}e^4 \otimes e_9$	{1235789, 123789, 1259, 129, 134567, 13467, 14568, 1468, 235689, 23689, 25679, 2679, 34, 345, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{14982}e^{12}, \frac{24}{1259}\sqrt{454}e^{13}, \frac{2}{1259}\sqrt{14982}e^{34}, \frac{20}{1259}\sqrt{454}e^{16}$	$(\frac{139}{1259}, -\frac{315}{1259}, \frac{239}{1259}, -\frac{215}{1259}, \frac{417}{1259}, -\frac{176}{1259}, \frac{378}{1259}, \frac{24}{1259}, -\frac{37}{1259})$ $+\frac{2}{1259}\sqrt{106917}e^1 \otimes e_2 + \frac{2}{1259}\sqrt{74229}e^5 \otimes e_9 + \frac{2}{1259}\sqrt{84217}e^3 \otimes e_4$	{139, 1479, 2357, 245}
941:2	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{2}{91}\sqrt{1133}e^{34}, \frac{1}{91}\sqrt{618}e^{16}$	$(-\frac{3}{91}, \frac{19}{91}, \frac{44}{91}, -\frac{6}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{41}{91}, \frac{38}{91}, \frac{1}{7})$ $+\frac{5}{91}\sqrt{618}e^3 \otimes e_5$	{123469, 123689, 12456789, 125679, 134, 138, 14578, 157, 23479, 23789, 24589, 259, 3467, 3678, 4568, 56}
941:2	$0, 0, 0, 0, 0, \frac{3}{1145}\sqrt{858}e^{12}, \frac{12}{1145}\sqrt{455}e^{13}, \frac{6}{1145}\sqrt{4355}e^{34}, \frac{6}{1145}\sqrt{1586}e^{16}$	$(-\frac{31}{229}, \frac{107}{1145}, \frac{31}{1145}, \frac{22}{229}, \frac{75}{229}, -\frac{48}{1145}, -\frac{124}{1145}, \frac{141}{1145}, -\frac{203}{1145})$ $+\frac{3}{1145}\sqrt{14794}e^5 \otimes e_8 + \frac{3}{1145}\sqrt{18434}e^4 \otimes e_7 + \frac{3}{1145}\sqrt{21606}e^3 \otimes e_9$	{123456, 1579, 2378, 4689}
941:2	$0, 0, 0, 0, 0, \frac{4}{3977}\sqrt{7014}e^{12}, \frac{6}{3977}\sqrt{28390}e^{13}, \frac{4}{3977}\sqrt{95190}e^{34}, \frac{2}{3977}\sqrt{431862}e^{16}$	$(\frac{213}{3977}, -\frac{789}{3977}, \frac{639}{3977}, -\frac{418}{3977}, \frac{1223}{3977}, -\frac{576}{3977}, \frac{852}{3977}, \frac{221}{3977}, -\frac{363}{3977})$ $+\frac{2}{3977}\sqrt{441381}e^5 \otimes e_8 + \frac{2}{3977}\sqrt{594687}e^1 \otimes e_2 + \frac{2}{3977}\sqrt{785067}e^3 \otimes e_9$	{14789, 1579, 23457, 2378}
941:2	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{2}{91}\sqrt{1133}e^{34}, \frac{1}{91}\sqrt{618}e^{16}$	$(-\frac{3}{91}, \frac{19}{91}, -\frac{31}{91}, \frac{69}{91}, \frac{16}{91}, \frac{16}{91}, -\frac{34}{91}, \frac{38}{91}, \frac{1}{7})$ $+\frac{5}{91}\sqrt{618}e^4 \otimes e_7$	{1234569, 123469, 125679, 12679, 134, 1345, 157, 17, 235789, 23789, 24589, 2489, 35678, 3678, 4568, 468}
941:2	$0, 0, 0, 0, 0, \frac{22}{1451}\sqrt{983}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{1}{1451}\sqrt{33422}e^{16}$	$(-\frac{208}{1451}, \frac{609}{1451}, -\frac{166}{1451}, -\frac{41}{1451}, \frac{776}{1451}, \frac{401}{1451}, -\frac{374}{1451}, -\frac{207}{1451}, \frac{193}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^2 \otimes e_7 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_8$	{123459, 12389, 14678, 1567, 24689, 2569, 3457, 378}
941:2	$0, 0, 0, 0, 0, \frac{48}{773}\sqrt{11}e^{12}, \frac{16}{773}\sqrt{66}e^{13}, \frac{8}{773}\sqrt{626}e^{34}, \frac{8}{773}\sqrt{626}e^{16}$	$(\frac{83}{773}, -\frac{114}{773}, -\frac{97}{773}, \frac{116}{773}, \frac{50}{773}, -\frac{31}{773}, -\frac{14}{773}, \frac{19}{773}, \frac{52}{773})$ $+\frac{16}{773}\sqrt{17}e^5 \otimes e_7 + \frac{8}{773}\sqrt{21}e^1 \otimes e_8 + \frac{8}{773}\sqrt{690}e^4 \otimes e_9$	{129, 134567, 23689, 4578}
941:2	$0, 0, 0, 0, 0, \frac{2}{305}\sqrt{949}e^{12}, \frac{2}{305}\sqrt{559}e^{13}, \frac{4}{305}\sqrt{377}e^{34}, \frac{4}{305}\sqrt{377}e^{16}$	$(\frac{6}{61}, -\frac{41}{305}, -\frac{41}{305}, \frac{32}{61}, \frac{32}{305}, -\frac{11}{305}, -\frac{11}{305}, \frac{4}{305}, \frac{19}{305})$ $+\frac{24}{305}\sqrt{13}e^1 \otimes e_8 + \frac{2}{305}\sqrt{1677}e^4 \otimes e_9$	{1259, 129, 134567, 13467, 235689, 23689, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{22}{1451}\sqrt{983}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{1}{1451}\sqrt{33422}e^{16}$	$(-\frac{208}{1451}, \frac{609}{1451}, -\frac{166}{1451}, \frac{559}{1451}, -\frac{424}{1451}, \frac{401}{1451}, -\frac{374}{1451}, \frac{393}{1451}, \frac{193}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^2 \otimes e_7 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_5$	{12349, 123589, 14678, 1567, 24689, 2569, 347, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{642}e^{12}, \frac{10}{587}\sqrt{321}e^{13}, \frac{2}{587}\sqrt{642}e^{34}, \frac{1}{587}\sqrt{114918}e^{16}$	$(\frac{104}{587}, -\frac{217}{587}, \frac{8}{587}, \frac{58}{587}, \frac{312}{587}, -\frac{113}{587}, \frac{112}{587}, \frac{66}{587}, -\frac{9}{587})$ $+ \frac{10}{587}\sqrt{1605}e^5 \otimes e_9 + \frac{5}{587}\sqrt{7062}e^1 \otimes e_2$	{13456, 13568, 145678, 1567, 234679, 236789, 24689, 269}
941:2	$0, 0, 0, 0, 0, \frac{56}{173}e^{12}, \frac{16}{173}\sqrt{13}e^{13}, \frac{40}{173}\sqrt{3}e^{34}, \frac{56}{173}e^{16}$	$(-\frac{29}{173}, \frac{46}{173}, -\frac{6}{173}, \frac{20}{173}, \frac{17}{173}, \frac{17}{173}, -\frac{35}{173}, \frac{14}{173}, -\frac{12}{173})$ $+ \frac{8}{173}\sqrt{78}e^2 \otimes e_8 + \frac{8}{173}\sqrt{78}e^4 \otimes e_9$	{1259, 129, 14568, 1468, 25679, 2679, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{205}\sqrt{559}e^{12}, \frac{1}{205}\sqrt{9030}e^{13}, \frac{7}{205}\sqrt{43}e^{34}, \frac{1}{205}\sqrt{430}e^{16}$	$(-\frac{209}{820}, \frac{157}{410}, \frac{179}{820}, -\frac{33}{164}, \frac{12}{41}, \frac{21}{164}, -\frac{3}{82}, \frac{7}{410}, -\frac{26}{205})$ $+ \frac{1}{205}\sqrt{11911}e^3 \otimes e_4 + \frac{1}{205}\sqrt{13029}e^2 \otimes e_7 + \frac{1}{205}\sqrt{7611}e^5 \otimes e_9$	{1239, 14567, 2469, 357}
941:2	$0, 0, 0, 0, 0, \frac{4}{757}\sqrt{6765}e^{12}, \frac{8}{757}\sqrt{902}e^{13}, \frac{4}{757}\sqrt{6765}e^{34}, \frac{8}{757}\sqrt{1353}e^{16}$	$(-\frac{131}{757}, \frac{242}{757}, \frac{121}{757}, -\frac{207}{757}, \frac{308}{757}, \frac{111}{757}, -\frac{10}{757}, -\frac{86}{757}, -\frac{20}{757})$ $+ \frac{4}{757}\sqrt{13489}e^2 \otimes e_8 + \frac{4}{757}\sqrt{9430}e^5 \otimes e_9 + \frac{8}{757}\sqrt{1230}e^3 \otimes e_4$	{135678, 14568, 358, 4578}
941:2	$0, 0, 0, 0, 0, \frac{3}{395}\sqrt{986}e^{12}, \frac{13}{395}\sqrt{174}e^{13}, \frac{3}{395}\sqrt{986}e^{34}, \frac{2}{395}\sqrt{435}e^{16}$	$(\frac{31}{395}, -\frac{56}{395}, \frac{26}{395}, -\frac{61}{395}, \frac{144}{395}, -\frac{5}{79}, \frac{57}{395}, -\frac{7}{79}, \frac{6}{395})$ $+ \frac{16}{395}\sqrt{87}e^3 \otimes e_4 + \frac{16}{395}\sqrt{87}e^5 \otimes e_7 + \frac{3}{395}\sqrt{2378}e^1 \otimes e_2$	{135, 147, 2379, 2459}
941:2	$0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{426622}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{22}{1451}\sqrt{983}e^{34}, \frac{1}{1451}\sqrt{33422}e^{16}$	$(-\frac{183}{1451}, \frac{559}{1451}, -\frac{191}{1451}, \frac{609}{1451}, -\frac{424}{1451}, \frac{376}{1451}, -\frac{374}{1451}, \frac{418}{1451}, \frac{193}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^4 \otimes e_7 + \frac{20}{1451}\sqrt{2949}e^2 \otimes e_5$	{12349, 1279, 13456, 1567, 236789, 24689, 3578, 458}
941:2	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{115}e^{13}, \frac{4}{37}\sqrt{23}e^{34}, \frac{2}{37}\sqrt{322}e^{16}$	$(-\frac{6}{37}, \frac{3}{37}, \frac{8}{37}, \frac{3}{37}, 1, -\frac{3}{37}, \frac{2}{37}, \frac{11}{37}, -\frac{9}{37})$ $+ \frac{2}{37}\sqrt{690}e^5 \otimes e_9$	{123479, 123789, 12489, 129, 134567, 135678, 14568, 156, 23469, 23689, 246789, 2679, 345, 358, 4578, 57}
941:2	$0, 0, 0, 0, 0, \frac{12}{1841}\sqrt{659}e^{12}, \frac{2}{1841}\sqrt{133118}e^{13}, \frac{2}{1841}\sqrt{73149}e^{34}, \frac{1}{1841}\sqrt{631322}e^{16}$	$(\frac{148}{1841}, -\frac{73}{263}, \frac{444}{1841}, -\frac{34}{1841}, \frac{188}{1841}, -\frac{363}{1841}, \frac{592}{1841}, \frac{410}{1841}, -\frac{215}{1841})$ $+ \frac{1}{1841}\sqrt{1016178}e^1 \otimes e_2 + \frac{6}{263}\sqrt{659}e^3 \otimes e_9$	{145789, 14789, 1579, 179, 23457, 2347, 23578, 2378}
941:2	$0, 0, 0, 0, 0, \frac{3}{82}\sqrt{53}e^{12}, \frac{1}{82}\sqrt{318}e^{13}, \frac{1}{41}\sqrt{530}e^{34}, \frac{1}{41}\sqrt{530}e^{16}$	$(-\frac{11}{82}, \frac{3}{41}, -\frac{13}{164}, \frac{37}{82}, \frac{71}{164}, -\frac{5}{82}, -\frac{35}{164}, \frac{61}{164}, -\frac{8}{41})$ $+ \frac{1}{82}\sqrt{4929}e^4 \otimes e_9 + \frac{5}{82}\sqrt{106}e^5 \otimes e_7$	{123789, 1259, 13467, 14568, 235689, 2679, 345, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{509}\sqrt{6474}e^{12}, \frac{1}{509}\sqrt{54282}e^{13}, \frac{1}{509}\sqrt{32370}e^{34}, \frac{1}{509}\sqrt{32370}e^{16}$	$(-\frac{166}{509}, \frac{213}{509}, \frac{130}{509}, -\frac{5}{509}, \frac{60}{509}, \frac{47}{509}, -\frac{36}{509}, \frac{125}{509}, -\frac{119}{509})$ $+ \frac{1}{509}\sqrt{102090}e^2 \otimes e_7 + \frac{2}{509}\sqrt{30378}e^3 \otimes e_9$	{245689, 24689, 2569, 269, 3457, 347, 3578, 378}
941:2	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{3182}e^{12}, \frac{2}{223}\sqrt{215}e^{13}, \frac{1}{223}\sqrt{4730}e^{34}, \frac{1}{223}\sqrt{4558}e^{16}$	$(\frac{21}{223}, -\frac{15}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{70}{223}, \frac{6}{223}, -\frac{22}{223}, -\frac{22}{223}, \frac{27}{223})$ $+ \frac{3}{223}\sqrt{946}e^1 \otimes e_8 + \frac{4}{223}\sqrt{258}e^5 \otimes e_9 - \frac{6}{223}\sqrt{129}e^4 \otimes e_7$	{12349, 1279, 13456, 1567, 236789, 24689, 3578, 458}
941:2	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{3182}e^{12}, \frac{2}{223}\sqrt{215}e^{13}, \frac{1}{223}\sqrt{4730}e^{34}, \frac{1}{223}\sqrt{4558}e^{16}$	$(\frac{21}{223}, -\frac{15}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{70}{223}, \frac{6}{223}, -\frac{22}{223}, -\frac{22}{223}, \frac{27}{223})$ $+ \frac{3}{223}\sqrt{946}e^1 \otimes e_8 + \frac{4}{223}\sqrt{258}e^5 \otimes e_9 + \frac{6}{223}\sqrt{129}e^4 \otimes e_7$	{12349, 1279, 13456, 1567, 236789, 24689, 3578, 458}
941:2	$0, 0, 0, 0, 0, \frac{10}{257}\sqrt{39}e^{12}, \frac{12}{257}\sqrt{130}e^{13}, \frac{4}{257}\sqrt{455}e^{34}, \frac{4}{257}\sqrt{455}e^{16}$	$(-\frac{58}{257}, \frac{42}{257}, \frac{56}{257}, -\frac{1}{257}, \frac{128}{257}, -\frac{16}{257}, -\frac{2}{257}, \frac{55}{257}, -\frac{74}{257})$ $+ \frac{2}{257}\sqrt{6565}e^5 \otimes e_7 + \frac{2}{257}\sqrt{8385}e^3 \otimes e_9$	{123456, 123568, 14789, 179, 2347, 2378, 45689, 569}
941:2	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{322}e^{12}, \frac{2}{37}\sqrt{115}e^{13}, \frac{4}{37}\sqrt{23}e^{34}, \frac{4}{37}\sqrt{23}e^{16}$	$(-\frac{6}{37}, \frac{23}{37}, \frac{8}{37}, \frac{3}{37}, -\frac{23}{37}, \frac{17}{37}, \frac{2}{37}, \frac{11}{37}, \frac{11}{37})$ $+ \frac{2}{37}\sqrt{690}e^2 \otimes e_5$	{123479, 123789, 12489, 129, 134567, 135678, 14568, 156, 23469, 23689, 246789, 2679, 345, 358, 4578, 57}
941:2	$0, 0, 0, 0, 0, \frac{4}{359}\sqrt{1610}e^{12}, \frac{4}{359}\sqrt{322}e^{13}, \frac{5}{359}\sqrt{1610}e^{34}, \frac{1}{359}\sqrt{6118}e^{16}$	$(-\frac{42}{359}, \frac{144}{359}, \frac{67}{359}, -\frac{84}{359}, -\frac{94}{359}, \frac{102}{359}, \frac{25}{359}, -\frac{17}{359}, \frac{60}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^3 \otimes e_5$	{123479, 1259, 13678, 14568, 23469, 25679, 38, 4578}
941:2	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{642}e^{12}, \frac{10}{587}\sqrt{321}e^{13}, \frac{1}{587}\sqrt{114918}e^{34}, \frac{2}{587}\sqrt{642}e^{16}$	$(\frac{4}{587}, \frac{58}{587}, -\frac{167}{587}, \frac{158}{587}, \frac{312}{587}, \frac{62}{587}, -\frac{163}{587}, -\frac{9}{587}, \frac{66}{587})$ $+ \frac{10}{587}\sqrt{1605}e^5 \otimes e_8 + \frac{5}{587}\sqrt{7062}e^4 \otimes e_7$	{123459, 12579, 13456, 1567, 236789, 24689, 378, 48}
941:2	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{93}e^{12}, \frac{5}{82}\sqrt{62}e^{13}, \frac{1}{82}\sqrt{1178}e^{34}, \frac{1}{41}\sqrt{93}e^{16}$	$(-\frac{3}{41}, \frac{13}{82}, \frac{1}{164}, \frac{51}{164}, -\frac{61}{164}, \frac{7}{82}, -\frac{11}{164}, \frac{13}{41}, \frac{1}{82})$ $+ \frac{5}{82}\sqrt{93}e^3 \otimes e_5 + \frac{5}{82}\sqrt{93}e^4 \otimes e_7$	{123469, 125679, 134, 157, 23789, 24589, 3678, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{1133}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{1}{91}\sqrt{618}e^{34}, \frac{1}{91}\sqrt{618}e^{16}$	$(-\frac{4}{13}, \frac{69}{91}, -\frac{6}{91}, \frac{19}{91}, \frac{16}{91}, \frac{41}{91}, -\frac{34}{91}, \frac{1}{7}, \frac{1}{7})$ $+\frac{5}{91}\sqrt{618}e^2 \otimes e_7$	{123, 123458, 12348, 1235, 145679, 14679, 156789, 16789, 2456, 246, 2568, 268, 345789, 34789, 3579, 379}
941:2	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{21}e^{12}, \frac{8}{17}\sqrt{2}e^{13}, \frac{4}{51}\sqrt{21}e^{34}, \frac{4}{51}\sqrt{21}e^{16}$	$(-\frac{7}{51}, \frac{10}{51}, \frac{10}{51}, -\frac{14}{51}, \frac{9}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{4}{51}, -\frac{4}{51})$ $+\frac{8}{17}\sqrt{2}e^3 \otimes e_4 + \frac{8}{17}\sqrt{2}e^5 \otimes e_7$	{123569, 124679, 135, 147, 2379, 2459, 367, 456}
941:2	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{530}e^{12}, \frac{1}{82}\sqrt{318}e^{13}, \frac{1}{41}\sqrt{530}e^{34}, \frac{3}{82}\sqrt{53}e^{16}$	$(-\frac{11}{82}, \frac{37}{82}, \frac{37}{164}, -\frac{69}{164}, \frac{21}{164}, \frac{13}{41}, \frac{15}{164}, -\frac{8}{41}, \frac{15}{82})$ $+\frac{1}{82}\sqrt{4929}e^2 \otimes e_8 + \frac{5}{82}\sqrt{106}e^3 \otimes e_4$	{135678, 13678, 14568, 1468, 358, 38, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{559}\sqrt{2067}e^{12}, \frac{3}{559}\sqrt{742}e^{13}, \frac{2}{559}\sqrt{3869}e^{34}, \frac{2}{559}\sqrt{3869}e^{16}$	$(\frac{10}{559}, -\frac{24}{559}, \frac{49}{559}, -\frac{92}{559}, \frac{112}{559}, -\frac{14}{559}, \frac{59}{559}, -\frac{1}{13}, -\frac{4}{559})$ $+\frac{2}{559}\sqrt{1537}e^5 \otimes e_7 + \frac{2}{559}\sqrt{5406}e^3 \otimes e_9 + \frac{9}{559}\sqrt{318}e^1 \otimes e_8$	{1279, 13456, 245689, 378}
941:2	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{583}e^{13}, \frac{4}{185}\sqrt{583}e^{34}, \frac{4}{185}\sqrt{583}e^{16}$	$(-\frac{42}{185}, \frac{11}{37}, -\frac{9}{185}, \frac{77}{185}, \frac{24}{185}, \frac{13}{185}, -\frac{51}{185}, \frac{68}{185}, -\frac{29}{185})$ $+\frac{16}{185}\sqrt{53}e^2 \otimes e_7 + \frac{2}{185}\sqrt{5141}e^4 \otimes e_9$	{1259, 129, 134567, 13467, 235689, 23689, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{33402}e^{12}, \frac{1}{577}\sqrt{128334}e^{13}, \frac{1}{577}\sqrt{33402}e^{34}, \frac{2}{577}\sqrt{4981}e^{16}$	$(\frac{125}{577}, -\frac{168}{577}, \frac{142}{577}, -\frac{151}{577}, \frac{48}{577}, -\frac{43}{577}, \frac{267}{577}, -\frac{9}{577}, \frac{82}{577})$ $+\frac{16}{577}\sqrt{586}e^3 \otimes e_4 + \frac{1}{577}\sqrt{159978}e^1 \otimes e_2$	{1359, 139, 14579, 1479, 2357, 237, 24, 245}
941:2	$0, 0, 0, 0, 0, \frac{22}{1451}\sqrt{983}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{1}{1451}\sqrt{33422}e^{34}, \frac{1}{1451}\sqrt{426622}e^{16}$	$(-\frac{408}{1451}, \frac{609}{1451}, \frac{34}{1451}, \frac{159}{1451}, \frac{776}{1451}, \frac{201}{1451}, -\frac{374}{1451}, \frac{193}{1451}, -\frac{207}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^2 \otimes e_7 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_9$	{12349, 12389, 145678, 1567, 24689, 269, 3457, 3578}
941:2	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{73486}e^{12}, \frac{8}{577}\sqrt{181}e^{13}, \frac{1}{577}\sqrt{50318}e^{34}, \frac{1}{577}\sqrt{50318}e^{16}$	$(\frac{75}{577}, \frac{59}{577}, -\frac{37}{577}, -\frac{69}{577}, -\frac{122}{577}, \frac{134}{577}, \frac{38}{577}, -\frac{106}{577}, \frac{209}{577})$ $+\frac{3}{577}\sqrt{12670}e^1 \otimes e_8 + \frac{8}{577}\sqrt{1086}e^2 \otimes e_5$	{123479, 129, 134567, 156, 23689, 246789, 358, 4578}
941:2	$0, 0, 0, 0, 0, \frac{7}{205}\sqrt{43}e^{12}, \frac{1}{205}\sqrt{9030}e^{13}, \frac{1}{205}\sqrt{430}e^{34}, \frac{2}{205}\sqrt{559}e^{16}$	$(\frac{153}{820}, \frac{191}{820}, \frac{6}{41}, -\frac{56}{205}, \frac{12}{41}, -\frac{19}{410}, \frac{273}{820}, -\frac{26}{205}, \frac{23}{164})$ $+\frac{1}{205}\sqrt{1191}e^3 \otimes e_4 + \frac{1}{205}\sqrt{13029}e^1 \otimes e_2 + \frac{1}{205}\sqrt{7611}e^5 \otimes e_8$	{1389, 14789, 2378, 248}
941:2	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{473}e^{12}, \frac{10}{167}\sqrt{86}e^{13}, \frac{2}{167}\sqrt{602}e^{34}, \frac{2}{167}\sqrt{602}e^{16}$	$(\frac{39}{167}, -\frac{47}{167}, \frac{28}{167}, \frac{3}{167}, -\frac{58}{167}, -\frac{8}{167}, \frac{67}{167}, \frac{31}{167}, \frac{31}{167})$ $+\frac{10}{167}\sqrt{129}e^1 \otimes e_2 + \frac{10}{167}\sqrt{129}e^3 \otimes e_5$	{1349, 1389, 145789, 1579, 2347, 2378, 2458, 25}
941:2	$0, 0, 0, 0, 0, \frac{1}{509}\sqrt{32370}e^{12}, \frac{1}{509}\sqrt{54282}e^{13}, \frac{2}{509}\sqrt{6474}e^{34}, \frac{1}{509}\sqrt{32370}e^{16}$	$(\frac{65}{509}, -\frac{5}{509}, -\frac{101}{509}, \frac{213}{509}, -\frac{184}{509}, \frac{60}{509}, -\frac{36}{509}, \frac{112}{509}, \frac{125}{509})$ $+\frac{1}{509}\sqrt{102090}e^4 \otimes e_7 + \frac{2}{509}\sqrt{30378}e^1 \otimes e_5$	{12349, 1279, 1346, 167, 2356789, 245689, 3578, 458}
941:2	$0, 0, 0, 0, 0, \frac{4}{461}\sqrt{1027}e^{12}, \frac{2}{461}\sqrt{8611}e^{13}, \frac{2}{461}\sqrt{15010}e^{34}, \frac{4}{461}\sqrt{2607}e^{16}$	$(-\frac{28}{461}, -\frac{5}{461}, -\frac{34}{461}, \frac{97}{461}, \frac{221}{461}, -\frac{33}{461}, \frac{62}{461}, \frac{63}{461}, -\frac{61}{461})$ $+\frac{2}{461}\sqrt{13746}e^5 \otimes e_8 + \frac{8}{461}\sqrt{1185}e^4 \otimes e_9$	{123789, 1259, 134567, 1468, 23689, 25679, 345, 478}
941:2	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{5}e^{12}, \frac{8}{19}\sqrt{6}e^{13}, \frac{4}{19}\sqrt{5}e^{34}, \frac{4}{19}\sqrt{5}e^{16}$	$(-\frac{5}{57}, \frac{14}{57}, \frac{2}{3}, -\frac{34}{57}, \frac{3}{19}, \frac{3}{19}, \frac{11}{19}, \frac{4}{57}, \frac{4}{57})$ $+\frac{16}{19}\sqrt{3}e^3 \otimes e_4$	{123569, 12369, 1245679, 124679, 13, 135, 1457, 147, 23579, 2379, 2459, 249, 3567, 367, 456, 46}
941:2	$0, 0, 0, 0, 0, \frac{1}{1841}\sqrt{631322}e^{12}, \frac{2}{1841}\sqrt{133118}e^{13}, \frac{12}{1841}\sqrt{659}e^{34}, \frac{2}{1841}\sqrt{73149}e^{16}$	$(-\frac{5}{263}, \frac{480}{1841}, -\frac{144}{1841}, \frac{260}{1841}, -\frac{694}{1841}, \frac{445}{1841}, -\frac{179}{1841}, \frac{116}{1841}, \frac{410}{1841})$ $+\frac{1}{1841}\sqrt{1016178}e^2 \otimes e_7 + \frac{6}{263}\sqrt{659}e^1 \otimes e_5$	{123489, 1239, 1467, 1678, 24569, 25689, 34578, 357}
941:2	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{6118}e^{12}, \frac{4}{359}\sqrt{322}e^{13}, \frac{5}{359}\sqrt{1610}e^{34}, \frac{4}{359}\sqrt{1610}e^{16}$	$(-\frac{42}{359}, \frac{22}{359}, \frac{67}{359}, \frac{99}{359}, -\frac{94}{359}, -\frac{20}{359}, \frac{25}{359}, \frac{166}{359}, -\frac{62}{359})$ $+\frac{1}{359}\sqrt{58926}e^4 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^3 \otimes e_5$	{123789, 1259, 13467, 14568, 23689, 25679, 34, 4578}
941:2	$0, 0, 0, 0, 0, \frac{8}{17}e^{12}, \frac{8}{17}e^{13}, \frac{4}{17}\sqrt{5}e^{34}, \frac{4}{17}\sqrt{5}e^{16}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{1}{17}, \frac{6}{17}, -\frac{4}{17}, \frac{1}{17}, -\frac{2}{17}, \frac{7}{17}, -\frac{2}{17})$ $+\frac{12}{17}e^4 \otimes e_9 + \frac{4}{17}\sqrt{6}e^2 \otimes e_5$	{123789, 129, 134567, 14568, 23689, 2679, 345, 4578}
941:2	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}e^{13}, \frac{4}{17}\sqrt{5}e^{34}, \frac{8}{17}e^{16}$	$(-\frac{3}{17}, \frac{6}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{8}{17}, \frac{3}{17}, -\frac{2}{17}, -\frac{2}{17}, 0)$ $+\frac{12}{17}e^2 \otimes e_8 + \frac{4}{17}\sqrt{6}e^5 \otimes e_9$	{123479, 129, 135678, 14568, 23469, 2679, 358, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{42}e^{12}, \frac{1}{44}\sqrt{182}e^{13}, \frac{1}{22}\sqrt{42}e^{34}, \frac{5}{44}\sqrt{14}e^{16}$	$(-\frac{1}{88}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{29}{88}, -\frac{3}{88}, \frac{23}{88}, \frac{1}{4}, -\frac{1}{22})$ $+\frac{1}{44}\sqrt{546}e^1 \otimes e_5 + \frac{1}{44}\sqrt{546}e^3 \otimes e_9$	{124789, 1279, 1346, 1368, 245689, 2569, 3457, 3578}
941:2	$0, 0, 0, 0, 0, \frac{2}{977}\sqrt{23718}e^{12}, \frac{4}{977}\sqrt{1005}e^{13}, \frac{2}{977}\sqrt{23718}e^{34}, \frac{4}{977}\sqrt{8911}e^{16}$	$(\frac{88}{977}, -\frac{75}{977}, \frac{44}{977}, -\frac{224}{977}, \frac{369}{977}, \frac{13}{977}, \frac{132}{977}, -\frac{180}{977}, \frac{101}{977})$ $+\frac{2}{977}\sqrt{19966}e^3 \otimes e_4 + \frac{2}{977}\sqrt{35778}e^5 \otimes e_9 + \frac{6}{977}\sqrt{6834}e^1 \otimes e_8$	{236789, 24689, 3578, 458}
941:2	$0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{8}{191}\sqrt{143}e^{13}, \frac{4}{191}\sqrt{66}e^{34}, \frac{44}{191}\sqrt{10}e^{16}$	$(\frac{55}{191}, -\frac{20}{191}, \frac{6}{191}, \frac{32}{191}, -\frac{121}{191}, \frac{35}{191}, \frac{61}{191}, \frac{38}{191}, \frac{90}{191})$ $+\frac{8}{191}\sqrt{858}e^1 \otimes e_5$	{12349, 12389, 124789, 1279, 1346, 1368, 14678, 167, 2345679, 2356789, 245689, 2569, 3457, 3578, 458, 5}
941:2	$0, 0, 0, 0, 0, \frac{8}{751}\sqrt{2227}e^{12}, \frac{2}{751}\sqrt{8515}e^{13}, \frac{4}{751}\sqrt{5502}e^{34}, \frac{2}{751}\sqrt{20305}e^{16}$	$(\frac{38}{751}, \frac{167}{751}, -\frac{15}{751}, -\frac{80}{751}, -\frac{224}{751}, \frac{205}{751}, \frac{23}{751}, -\frac{95}{751}, \frac{243}{751})$ $+\frac{4}{751}\sqrt{10218}e^1 \otimes e_5 + \frac{6}{751}\sqrt{5109}e^2 \otimes e_8$	{123479, 129, 13678, 1468, 234569, 25679, 358, 4578}
941:2	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{473}e^{12}, \frac{10}{167}\sqrt{86}e^{13}, \frac{2}{167}\sqrt{602}e^{34}, \frac{2}{167}\sqrt{602}e^{16}$	$(\frac{39}{167}, -\frac{47}{167}, -\frac{47}{167}, \frac{78}{167}, \frac{17}{167}, -\frac{8}{167}, -\frac{8}{167}, \frac{31}{167}, \frac{31}{167})$ $+\frac{10}{167}\sqrt{129}e^1 \otimes e_2 + \frac{10}{167}\sqrt{129}e^4 \otimes e_7$	{13459, 1349, 1579, 179, 23578, 2378, 2458, 248}
941:2	$0, 0, 0, 0, 0, \frac{5}{17}\sqrt{2}e^{12}, \frac{2}{17}\sqrt{5}e^{13}, \frac{1}{17}\sqrt{30}e^{34}, \frac{1}{17}\sqrt{30}e^{16}$	$(\frac{1}{17}, \frac{3}{17}, -\frac{3}{17}, -\frac{1}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{5}{17})$ $+\frac{2}{17}\sqrt{15}e^2 \otimes e_7 + \frac{3}{17}\sqrt{10}e^1 \otimes e_8$	{123459, 12349, 1567, 167, 245689, 24689, 3578, 378}
941:2	$0, 0, 0, 0, 0, \frac{2}{3761}\sqrt{75597}e^{12}, \frac{10}{3761}\sqrt{17394}e^{13}, \frac{2}{3761}\sqrt{175278}e^{34}, \frac{2}{3761}\sqrt{442878}e^{16}$	$(\frac{437}{3761}, -\frac{901}{3761}, -\frac{601}{3761}, \frac{1174}{3761}, \frac{1311}{3761}, -\frac{464}{3761}, -\frac{164}{3761}, \frac{573}{3761}, -\frac{27}{3761})$ $+\frac{10}{3761}\sqrt{35457}e^1 \otimes e_2 + \frac{20}{3761}\sqrt{6690}e^5 \otimes e_9 + \frac{30}{3761}\sqrt{3345}e^4 \otimes e_7$	{1349, 179, 23578, 2458}
941:2	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{50318}e^{12}, \frac{8}{577}\sqrt{181}e^{13}, \frac{1}{577}\sqrt{50318}e^{34}, \frac{1}{577}\sqrt{73486}e^{16}$	$(\frac{75}{577}, -\frac{69}{577}, -\frac{37}{577}, -\frac{69}{577}, \frac{262}{577}, \frac{6}{577}, \frac{38}{577}, -\frac{106}{577}, \frac{81}{577})$ $+\frac{3}{577}\sqrt{12670}e^1 \otimes e_8 + \frac{8}{577}\sqrt{1086}e^5 \otimes e_9$	{123479, 129, 134567, 156, 23689, 246789, 358, 4578}
941:2	$0, 0, 0, 0, 0, \frac{4}{751}\sqrt{5502}e^{12}, \frac{2}{751}\sqrt{8515}e^{13}, \frac{8}{751}\sqrt{2227}e^{34}, \frac{2}{751}\sqrt{20305}e^{16}$	$(-\frac{170}{751}, \frac{271}{751}, \frac{193}{751}, -\frac{184}{751}, \frac{88}{751}, \frac{101}{751}, \frac{23}{751}, \frac{9}{751}, -\frac{69}{751})$ $+\frac{4}{751}\sqrt{10218}e^3 \otimes e_9 + \frac{6}{751}\sqrt{5109}e^2 \otimes e_8$	{1259, 129, 135678, 13678, 25679, 2679, 358, 38}
941:2	$0, 0, 0, 0, 0, \frac{12}{1841}\sqrt{659}e^{12}, \frac{2}{1841}\sqrt{133118}e^{13}, \frac{1}{1841}\sqrt{631322}e^{34}, \frac{2}{1841}\sqrt{73149}e^{16}$	$(-\frac{366}{1841}, \frac{260}{1841}, \frac{187}{1841}, \frac{480}{1841}, \frac{188}{1841}, -\frac{106}{1841}, -\frac{179}{1841}, \frac{667}{1841}, -\frac{472}{1841})$ $+\frac{1}{1841}\sqrt{1016178}e^4 \otimes e_7 + \frac{6}{263}\sqrt{659}e^3 \otimes e_9$	{123456, 12346, 1579, 179, 23578, 2378, 45689, 4689}
941:2	$0, 0, 0, 0, 0, \frac{4}{461}\sqrt{2607}e^{12}, \frac{2}{461}\sqrt{8611}e^{13}, \frac{2}{461}\sqrt{15010}e^{34}, \frac{4}{461}\sqrt{1027}e^{16}$	$(-\frac{28}{461}, \frac{155}{461}, -\frac{34}{461}, \frac{31}{461}, -\frac{127}{461}, \frac{127}{461}, -\frac{62}{461}, -\frac{3}{461}, \frac{99}{461})$ $+\frac{2}{461}\sqrt{13746}e^4 \otimes e_5 + \frac{8}{461}\sqrt{1185}e^2 \otimes e_8$	{123479, 1259, 135678, 1468, 23469, 25679, 358, 478}
941:2	$0, 0, 0, 0, 0, \frac{22}{2785}\sqrt{1299}e^{12}, \frac{2}{2785}\sqrt{182293}e^{13}, \frac{2}{2785}\sqrt{404422}e^{34}, \frac{2}{2785}\sqrt{274522}e^{16}$	$(-\frac{312}{2785}, \frac{61}{557}, -\frac{249}{2785}, \frac{547}{2785}, \frac{1164}{2785}, -\frac{7}{2785}, -\frac{561}{2785}, \frac{298}{2785}, -\frac{319}{2785})$ $+\frac{12}{557}\sqrt{433}e^5 \otimes e_8 + \frac{2}{2785}\sqrt{526961}e^4 \otimes e_9 + \frac{4}{2785}\sqrt{43733}e^2 \otimes e_7$	{1259, 134567, 23689, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{602}e^{12}, \frac{10}{167}\sqrt{86}e^{13}, \frac{2}{167}\sqrt{602}e^{34}, \frac{2}{167}\sqrt{473}e^{16}$	$(-\frac{36}{167}, \frac{78}{167}, \frac{28}{167}, \frac{3}{167}, -\frac{58}{167}, \frac{42}{167}, -\frac{8}{167}, \frac{31}{167}, \frac{6}{167})$ $+\frac{10}{167}\sqrt{129}e^2 \otimes e_7 + \frac{10}{167}\sqrt{129}e^3 \otimes e_5$	{1234, 1238, 1456789, 15679, 24568, 256, 3479, 3789}
941:2	$0, 0, 0, 0, 0, \frac{1}{286}\sqrt{2899}e^{12}, \frac{5}{429}\sqrt{446}e^{13}, \frac{1}{858}\sqrt{115514}e^{34}, \frac{1}{858}\sqrt{106594}e^{16}$	$(\frac{59}{858}, -\frac{82}{429}, -\frac{167}{1716}, \frac{59}{286}, \frac{211}{572}, -\frac{35}{286}, -\frac{49}{1716}, \frac{17}{156}, -\frac{23}{429})$ $+\frac{1}{858}\sqrt{107486}e^5 \otimes e_8 + \frac{5}{858}\sqrt{160783}e^4 \otimes e_9 + \frac{1}{858}\sqrt{80726}e^1 \otimes e_2$	{134567, 1468, 23689, 25679}
941:2	$0, 0, 0, 0, 0, \frac{2}{3761}\sqrt{75597}e^{12}, \frac{10}{3761}\sqrt{17394}e^{13}, \frac{2}{3761}\sqrt{442878}e^{34}, \frac{2}{3761}\sqrt{175278}e^{16}$	$(\frac{637}{3761}, -\frac{701}{3761}, -\frac{1001}{3761}, \frac{974}{3761}, \frac{1311}{3761}, -\frac{64}{3761}, -\frac{364}{3761}, -\frac{27}{3761}, \frac{573}{3761})$ $+\frac{10}{3761}\sqrt{35457}e^4 \otimes e_7 + \frac{20}{3761}\sqrt{6690}e^5 \otimes e_8 + \frac{30}{3761}\sqrt{3345}e^1 \otimes e_2$	{13459, 1579, 2378, 248}
941:2	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{115}e^{13}, \frac{2}{37}\sqrt{322}e^{34}, \frac{4}{37}\sqrt{23}e^{16}$	$(\frac{4}{37}, \frac{3}{37}, -\frac{2}{37}, \frac{23}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{2}{37}, \frac{21}{37}, \frac{11}{37})$ $+\frac{2}{37}\sqrt{690}e^4 \otimes e_5$	{123479, 1235789, 12489, 1259, 13467, 135678, 1468, 156, 23469, 235689, 246789, 25679, 34, 358, 478, 57}
941:2	$0, 0, 0, 0, 0, \frac{4}{2383}\sqrt{31395}e^{12}, \frac{8}{2383}\sqrt{1365}e^{13}, \frac{4}{2383}\sqrt{58513}e^{34}, \frac{28}{2383}\sqrt{663}e^{16}$	$(-\frac{525}{2383}, \frac{750}{2383}, \frac{428}{2383}, -\frac{406}{2383}, \frac{631}{2383}, \frac{225}{2383}, -\frac{97}{2383}, \frac{22}{2383}, -\frac{300}{2383})$ $+\frac{4}{2383}\sqrt{35854}e^5 \otimes e_7 + \frac{2}{2383}\sqrt{81354}e^3 \otimes e_9 + \frac{52}{2383}\sqrt{462}e^2 \otimes e_8$	{1279, 13568, 2569, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{2}{205}\sqrt{559}e^{12}, \frac{1}{205}\sqrt{9030}e^{13}, \frac{1}{205}\sqrt{430}e^{34}, \frac{7}{205}\sqrt{43}e^{16}$	$(-\frac{15}{82}, \frac{157}{410}, \frac{6}{41}, -\frac{56}{205}, \frac{12}{41}, \frac{1}{5}, -\frac{3}{82}, -\frac{26}{205}, \frac{7}{410})$ $+\frac{1}{205}\sqrt{11911}e^3 \otimes e_4 + \frac{1}{205}\sqrt{13029}e^2 \otimes e_7 + \frac{1}{205}\sqrt{7611}e^5 \otimes e_8$	{1238, 146789, 2468, 3789}
941:2	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{33402}e^{12}, \frac{1}{577}\sqrt{128334}e^{13}, \frac{1}{577}\sqrt{33402}e^{34}, \frac{2}{577}\sqrt{4981}e^{16}$	$(\frac{125}{577}, -\frac{168}{577}, -\frac{114}{577}, \frac{105}{577}, \frac{304}{577}, -\frac{43}{577}, \frac{11}{577}, -\frac{9}{577}, \frac{82}{577})$ $+\frac{16}{577}\sqrt{586}e^5 \otimes e_7 + \frac{1}{577}\sqrt{159978}e^1 \otimes e_2$	{134589, 1359, 1479, 1789, 23478, 237, 245, 258}
941:2	$0, 0, 0, 0, 0, \frac{30}{4201}\sqrt{623}e^{12}, \frac{4}{4201}\sqrt{137505}e^{13}, \frac{2}{4201}\sqrt{77430}e^{34}, \frac{2}{4201}\sqrt{282130}e^{16}$	$(\frac{116}{4201}, \frac{774}{4201}, \frac{348}{4201}, \frac{117}{4201}, \frac{1354}{4201}, -\frac{658}{4201}, \frac{464}{4201}, \frac{465}{4201}, -\frac{542}{4201})$ $+\frac{20}{4201}\sqrt{6141}e^1 \otimes e_2 + \frac{2}{4201}\sqrt{473035}e^5 \otimes e_7 + \frac{6}{4201}\sqrt{72535}e^3 \otimes e_9$	{14789, 179, 2347, 2378}
941:2	$0, 0, 0, 0, 0, \frac{2}{643}\sqrt{4161}e^{12}, \frac{1}{643}\sqrt{6278}e^{13}, \frac{20}{643}\sqrt{73}e^{34}, \frac{20}{643}\sqrt{73}e^{16}$	$(\frac{28}{643}, -\frac{44}{643}, \frac{85}{643}, -\frac{130}{643}, \frac{70}{643}, -\frac{16}{643}, \frac{113}{643}, -\frac{45}{643}, \frac{12}{643})$ $+\frac{2}{643}\sqrt{9417}e^3 \otimes e_9 + \frac{3}{643}\sqrt{5110}e^1 \otimes e_8$	{12579, 1279, 13456, 1346, 245689, 24689, 3578, 378}
941:2	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{5}e^{12}, \frac{8}{19}\sqrt{6}e^{13}, \frac{4}{19}\sqrt{5}e^{34}, \frac{4}{19}\sqrt{5}e^{16}$	$(-\frac{5}{57}, \frac{14}{57}, -\frac{10}{57}, \frac{14}{57}, 1, \frac{3}{19}, -\frac{5}{19}, \frac{4}{57}, \frac{4}{57})$ $+\frac{16}{19}\sqrt{3}e^5 \otimes e_7$	{12345689, 123569, 124679, 126789, 13458, 135, 147, 178, 234789, 2379, 2459, 2589, 34678, 367, 456, 568}
941:2	$0, 0, 0, 0, 0, \frac{9}{1753}\sqrt{2002}e^{12}, \frac{126}{1753}\sqrt{13}e^{13}, \frac{45}{1753}\sqrt{210}e^{34}, \frac{18}{1753}\sqrt{763}e^{16}$	$(-\frac{378}{1753}, \frac{468}{1753}, \frac{279}{1753}, -\frac{210}{1753}, \frac{636}{1753}, \frac{90}{1753}, -\frac{99}{1753}, \frac{69}{1753}, -\frac{288}{1753})$ $+\frac{18}{1753}\sqrt{1561}e^2 \otimes e_7 + \frac{9}{1753}\sqrt{6594}e^5 \otimes e_8 + \frac{9}{1753}\sqrt{9394}e^3 \otimes e_9$	{24689, 2569, 3457, 378}
941:2	$0, 0, 0, 0, 0, \frac{4}{191}\sqrt{66}e^{12}, \frac{8}{191}\sqrt{143}e^{13}, \frac{44}{191}\sqrt{10}e^{34}, \frac{44}{191}\sqrt{10}e^{16}$	$(-\frac{49}{191}, \frac{32}{191}, \frac{110}{191}, -\frac{20}{191}, \frac{35}{191}, -\frac{17}{191}, \frac{61}{191}, \frac{90}{191}, -\frac{66}{191})$ $+\frac{8}{191}\sqrt{858}e^3 \otimes e_9$	{1245789, 124789, 12579, 1279, 13456, 1346, 13568, 1368, 245689, 24689, 2569, 269, 3457, 347, 3578, 378}
941:2	$0, 0, 0, 0, 0, \frac{2}{457}\sqrt{1023}e^{12}, \frac{1}{457}\sqrt{47058}e^{13}, \frac{1}{457}\sqrt{41602}e^{34}, \frac{2}{457}\sqrt{1023}e^{16}$	$(-\frac{6}{457}, \frac{57}{457}, \frac{126}{457}, -\frac{215}{457}, \frac{252}{457}, \frac{51}{457}, \frac{120}{457}, -\frac{89}{457}, \frac{45}{457})$ $+\frac{1}{457}\sqrt{137082}e^5 \otimes e_8 + \frac{1}{457}\sqrt{139810}e^3 \otimes e_4$	{123689, 1246789, 138, 1478, 23789, 2489, 3678, 468}
941:2	$0, 0, 0, 0, 0, \frac{4}{257}\sqrt{455}e^{12}, \frac{12}{257}\sqrt{130}e^{13}, \frac{10}{257}\sqrt{39}e^{34}, \frac{4}{257}\sqrt{455}e^{16}$	$(\frac{28}{257}, -\frac{1}{257}, \frac{71}{257}, -\frac{59}{257}, -\frac{102}{257}, \frac{27}{257}, \frac{99}{257}, \frac{12}{257}, \frac{55}{257})$ $+\frac{2}{257}\sqrt{6565}e^3 \otimes e_4 + \frac{2}{257}\sqrt{8385}e^1 \otimes e_5$	{1239, 12479, 136, 1467, 235679, 24569, 357, 45}
941:2	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{6118}e^{12}, \frac{4}{359}\sqrt{322}e^{13}, \frac{4}{359}\sqrt{1610}e^{34}, \frac{5}{359}\sqrt{1610}e^{16}$	$(\frac{48}{359}, -\frac{113}{359}, -\frac{23}{359}, \frac{144}{359}, \frac{41}{359}, -\frac{65}{359}, \frac{25}{359}, \frac{121}{359}, -\frac{17}{359})$ $+\frac{1}{359}\sqrt{58926}e^4 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^1 \otimes e_2$	{134567, 13467, 14568, 1468, 235689, 23689, 25679, 2679}
941:2	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{50318}e^{12}, \frac{8}{577}\sqrt{181}e^{13}, \frac{1}{577}\sqrt{73486}e^{34}, \frac{1}{577}\sqrt{50318}e^{16}$	$(\frac{139}{577}, -\frac{69}{577}, -\frac{101}{577}, \frac{59}{577}, -\frac{122}{577}, \frac{70}{577}, \frac{38}{577}, -\frac{42}{577}, \frac{209}{577})$ $+\frac{3}{577}\sqrt{12670}e^1 \otimes e_8 + \frac{8}{577}\sqrt{1086}e^4 \otimes e_5$	{123479, 1259, 13467, 156, 235689, 246789, 358, 478}
941:2	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{30}e^{12}, \frac{2}{17}\sqrt{5}e^{13}, \frac{5}{17}\sqrt{2}e^{34}, \frac{1}{17}\sqrt{30}e^{16}$	$(\frac{3}{17}, -\frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{2}{17}, \frac{5}{17})$ $+\frac{2}{17}\sqrt{15}e^3 \otimes e_5 + \frac{3}{17}\sqrt{10}e^1 \otimes e_8$	{12349, 12579, 1346, 1567, 236789, 245689, 378, 458}
941:2	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{43274}e^{12}, \frac{1}{487}\sqrt{6182}e^{13}, \frac{3}{487}\sqrt{6182}e^{34}, \frac{3}{487}\sqrt{6182}e^{16}$	$(-\frac{124}{487}, \frac{165}{487}, \frac{198}{487}, -\frac{36}{487}, -\frac{116}{487}, \frac{41}{487}, \frac{74}{487}, \frac{162}{487}, -\frac{83}{487})$ $+\frac{1}{487}\sqrt{100598}e^2 \otimes e_5 + \frac{7}{487}\sqrt{2810}e^3 \otimes e_9$	{124789, 1279, 13456, 13568, 24689, 269, 3457, 3578}
941:2	$0, 0, 0, 0, 0, \frac{130}{511}\sqrt{2}e^{12}, \frac{26}{511}\sqrt{22}e^{13}, \frac{13}{511}\sqrt{290}e^{34}, \frac{13}{511}\sqrt{142}e^{16}$	$(-\frac{78}{511}, \frac{156}{511}, -\frac{52}{511}, \frac{39}{511}, \frac{169}{511}, \frac{78}{511}, -\frac{130}{511}, -\frac{13}{511}, 0)$ $+\frac{39}{511}\sqrt{30}e^4 \otimes e_7 + \frac{39}{511}\sqrt{46}e^2 \otimes e_8 + \frac{52}{511}\sqrt{15}e^5 \otimes e_9$	{135678, 14568, 23469, 2679}
941:2	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{95}e^{12}, \frac{2}{47}\sqrt{247}e^{13}, \frac{4}{47}\sqrt{95}e^{34}, \frac{2}{47}\sqrt{133}e^{16}$	$(-\frac{6}{47}, \frac{27}{47}, \frac{1}{47}, -\frac{12}{47}, \frac{8}{47}, \frac{21}{47}, -\frac{5}{47}, -\frac{11}{47}, \frac{15}{47})$ $+\frac{2}{47}\sqrt{741}e^2 \otimes e_8$	{1234579, 123479, 1259, 129, 135678, 13678, 14568, 1468, 234569, 23469, 25679, 2679, 358, 38, 4578, 478}
941:2	$0, 0, 0, 0, 0, \frac{2}{457}\sqrt{1023}e^{12}, \frac{1}{457}\sqrt{47058}e^{13}, \frac{2}{457}\sqrt{1023}e^{34}, \frac{1}{457}\sqrt{41602}e^{16}$	$(-\frac{73}{457}, \frac{57}{457}, \frac{193}{457}, -\frac{148}{457}, \frac{252}{457}, -\frac{16}{457}, \frac{120}{457}, \frac{45}{457}, -\frac{89}{457})$ $+\frac{1}{457}\sqrt{137082}e^5 \otimes e_9 + \frac{1}{457}\sqrt{139810}e^3 \otimes e_4$	{12356, 124567, 139, 1479, 2357, 245, 3679, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:2	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{91}e^{12}, \frac{7}{47}\sqrt{6}e^{13}, \frac{2}{47}\sqrt{91}e^{34}, \frac{2}{47}\sqrt{91}e^{16}$	$(\frac{26}{141}, -\frac{8}{141}, -\frac{29}{141}, -\frac{8}{141}, \frac{20}{47}, \frac{6}{47}, -\frac{1}{47}, -\frac{37}{141}, \frac{44}{141})$ $+\frac{14}{47}\sqrt{3}e^5 \otimes e_7 + \frac{9}{47}\sqrt{14}e^1 \otimes e_8$	{123459, 1279, 13456, 167, 236789, 245689, 378, 458}
941:2	$0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{115}e^{13}, \frac{2}{37}\sqrt{322}e^{34}, \frac{4}{37}\sqrt{23}e^{16}$	$(\frac{4}{37}, \frac{3}{37}, -\frac{2}{37}, -\frac{7}{37}, 1, \frac{7}{37}, \frac{2}{37}, -\frac{9}{37}, \frac{11}{37})$ $+\frac{2}{37}\sqrt{690}e^5 \otimes e_8$	{1234579, 123789, 12489, 1259, 134567, 13678, 1468, 156, 234569, 23689, 246789, 25679, 345, 38, 478, 57}
941:2	$0, 0, 0, 0, 0, \frac{8}{371}\sqrt{246}e^{12}, \frac{96}{371}\sqrt{2}e^{13}, \frac{8}{371}\sqrt{370}e^{34}, \frac{8}{371}\sqrt{246}e^{16}$	$(-\frac{9}{53}, \frac{102}{371}, -\frac{2}{371}, \frac{40}{371}, -\frac{1}{371}, \frac{39}{371}, -\frac{65}{371}, \frac{38}{371}, -\frac{24}{371})$ $+\frac{16}{371}\sqrt{93}e^2 \otimes e_8 + \frac{16}{371}\sqrt{93}e^4 \otimes e_9 + \frac{32}{371}\sqrt{5}e^5 \otimes e_7$	{129, 1468, 25679, 4578}
941:2	$0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{22}{1451}\sqrt{983}e^{16}$	$(\frac{467}{1451}, -\frac{516}{1451}, -\frac{166}{1451}, -\frac{41}{1451}, \frac{776}{1451}, -\frac{49}{1451}, \frac{301}{1451}, -\frac{207}{1451}, \frac{418}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^1 \otimes e_2 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_8$	{13456, 1368, 14678, 1567, 2345679, 236789, 24689, 2569}
941:2	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{30}e^{12}, \frac{2}{17}\sqrt{5}e^{13}, \frac{5}{17}\sqrt{2}e^{34}, \frac{1}{17}\sqrt{30}e^{16}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{5}{17}, \frac{3}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $-\frac{2}{17}\sqrt{15}e^4 \otimes e_7 + \frac{3}{17}\sqrt{10}e^1 \otimes e_8$	{123459, 12349, 12579, 1279, 13456, 1346, 1567, 167, 2356789, 236789, 245689, 24689, 3578, 378, 458, 48}
941:2	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{30}e^{12}, \frac{2}{17}\sqrt{5}e^{13}, \frac{5}{17}\sqrt{2}e^{34}, \frac{1}{17}\sqrt{30}e^{16}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{5}{17}, \frac{3}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+\frac{2}{17}\sqrt{15}e^4 \otimes e_7 + \frac{3}{17}\sqrt{10}e^1 \otimes e_8$	{123459, 12349, 12579, 1279, 13456, 1346, 1567, 167, 2356789, 236789, 245689, 24689, 3578, 378, 458, 48}
941:2	$0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{22}{1451}\sqrt{983}e^{16}$	$(\frac{467}{1451}, -\frac{516}{1451}, -\frac{166}{1451}, \frac{559}{1451}, -\frac{424}{1451}, -\frac{49}{1451}, \frac{301}{1451}, \frac{393}{1451}, \frac{418}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^1 \otimes e_2 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_5$	{1346, 13568, 14678, 1567, 234679, 2356789, 24689, 2569}
941:2	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13}, \frac{1}{91}\sqrt{618}e^{34}, \frac{2}{91}\sqrt{1133}e^{16}$	$(\frac{47}{91}, -\frac{8}{13}, -\frac{6}{91}, \frac{19}{91}, \frac{16}{91}, -\frac{9}{91}, \frac{41}{91}, \frac{1}{7}, \frac{38}{91})$ $+\frac{5}{91}\sqrt{618}e^1 \otimes e_2$	{134589, 13489, 1359, 139, 14579, 1479, 15789, 1789, 234578, 23478, 2357, 237, 24, 245, 258, 28}
941:2	$0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13}, \frac{22}{1451}\sqrt{983}e^{34}, \frac{1}{1451}\sqrt{426622}e^{16}$	$(-\frac{183}{1451}, \frac{159}{1451}, -\frac{191}{1451}, \frac{609}{1451}, \frac{776}{1451}, -\frac{24}{1451}, -\frac{374}{1451}, \frac{418}{1451}, -\frac{207}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^4 \otimes e_7 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_9$	{12349, 1279, 13456, 1567, 236789, 24689, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{1}{2201}\sqrt{662330}e^{12}, \frac{2}{2201}\sqrt{1844462}e^{13}, \frac{2}{2201}\sqrt{37759}e^{34}, \frac{2}{2201}\sqrt{136799}e^{26}$	$(-\frac{26}{2201}, \frac{349}{2201}, -\frac{244}{2201}, \frac{352}{2201}, -\frac{645}{2201}, \frac{323}{2201}, -\frac{270}{2201}, \frac{108}{2201}, \frac{672}{2201})$ $+\frac{4}{2201}\sqrt{84803}e^2 \otimes e_7 + \frac{5}{2201}\sqrt{43330}e^1 \otimes e_5$	{123489, 1239, 14679, 16789, 2456, 2568, 34578, 357}
941:3	$0, 0, 0, 0, 0, \frac{4}{669}\sqrt{11055}e^{12}, \frac{4}{669}\sqrt{11658}e^{13}, \frac{4}{223}\sqrt{134}e^{34}, \frac{4}{669}\sqrt{14941}e^{26}$	$(-\frac{73}{223}, \frac{281}{669}, -\frac{12}{223}, \frac{46}{223}, \frac{40}{223}, \frac{62}{669}, -\frac{85}{223}, \frac{34}{223}, \frac{343}{669})$ $+\frac{4}{223}\sqrt{4087}e^2 \otimes e_7$	{1234589, 123489, 12359, 1239, 145679, 14679, 156789, 16789, 2456, 246, 2568, 268, 34578, 3478, 357, 37}
941:3	$0, 0, 0, 0, 0, \frac{2}{699}\sqrt{15015}e^{12}, \frac{2}{699}\sqrt{15834}e^{13}, \frac{2}{233}\sqrt{182}e^{34}, \frac{1}{699}\sqrt{127218}e^{26}$	$(-\frac{146}{699}, \frac{103}{699}, -\frac{8}{233}, \frac{92}{699}, \frac{111}{233}, -\frac{43}{699}, -\frac{170}{699}, \frac{68}{699}, \frac{20}{233})$ $+\frac{1}{699}\sqrt{138138}e^5 \otimes e_9 + \frac{2}{233}\sqrt{5551}e^2 \otimes e_7$	{123489, 1239, 14679, 16789, 2456, 2568, 34578, 357}
941:3	$0, 0, 0, 0, 0, \frac{10}{479}\sqrt{295}e^{12}, \frac{35}{479}\sqrt{10}e^{13}, \frac{10}{479}\sqrt{295}e^{34}, \frac{35}{479}\sqrt{30}e^{26}$	$(-\frac{18}{479}, \frac{40}{479}, \frac{20}{479}, -\frac{105}{479}, \frac{187}{479}, \frac{22}{479}, \frac{2}{479}, -\frac{85}{479}, \frac{62}{479})$ $+\frac{10}{479}\sqrt{635}e^2 \otimes e_8 + \frac{10}{479}\sqrt{95}e^3 \otimes e_4 + \frac{20}{479}\sqrt{85}e^5 \otimes e_9$	{136789, 14689, 358, 4578}
941:3	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{273}e^{12}, \frac{2}{109}\sqrt{429}e^{13}, \frac{1}{109}\sqrt{2262}e^{34}, \frac{2}{109}\sqrt{78}e^{26}$	$(\frac{28}{109}, -\frac{6}{109}, \frac{6}{109}, -\frac{17}{109}, -\frac{33}{109}, \frac{22}{109}, \frac{34}{109}, -\frac{11}{109}, \frac{16}{109})$ $+\frac{26}{109}\sqrt{6}e^1 \otimes e_8 + \frac{3}{109}\sqrt{390}e^3 \otimes e_5$	{12349, 12579, 13469, 15679, 23678, 24568, 378, 458}
941:3	$0, 0, 0, 0, 0, \frac{5}{99}\sqrt{62}e^{12}, \frac{2}{99}\sqrt{93}e^{13}, \frac{1}{99}\sqrt{2170}e^{34}, \frac{1}{99}\sqrt{1426}e^{26}$	$(-\frac{7}{99}, \frac{7}{33}, -\frac{17}{99}, \frac{7}{99}, \frac{4}{33}, \frac{14}{99}, -\frac{8}{33}, -\frac{10}{99}, \frac{35}{99})$ $+\frac{1}{99}\sqrt{3534}e^2 \otimes e_8 + \frac{2}{99}\sqrt{465}e^4 \otimes e_7$	{1356789, 136789, 145689, 14689, 23456, 2346, 2567, 267}
941:3	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{2}{81}\sqrt{910}e^{34}, \frac{1}{81}\sqrt{910}e^{26}$	$(-\frac{4}{81}, \frac{4}{27}, \frac{40}{81}, -\frac{5}{81}, -\frac{17}{27}, \frac{8}{81}, \frac{4}{9}, \frac{35}{81}, \frac{20}{81})$ $+\frac{2}{81}\sqrt{3003}e^3 \otimes e_5$	{12346, 12368, 1245678, 12567, 134, 138, 14578, 157, 23479, 23789, 24589, 259, 34679, 36789, 45689, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:3	$0, 0, 0, 0, 0, \frac{22}{1577}\sqrt{899e^{12}}, \frac{3}{1577}\sqrt{19778e^{13}}, \frac{2}{1577}\sqrt{128557e^{34}},$ $\frac{29}{1577}\sqrt{682e^{26}}$	$(\frac{484}{1577}, -\frac{356}{1577}, -\frac{180}{1577}, \frac{671}{1577}, -\frac{5}{19}, \frac{128}{1577}, \frac{16}{83}, \frac{491}{1577}, -\frac{12}{83})$ $+\frac{4}{1577}\sqrt{84506e^4} \otimes e_9 + \frac{62}{1577}\sqrt{290e^1} \otimes e_5$	{12389, 1279, 13689, 1679, 234567, 24568, 3457, 458}
941:3	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{273e^{12}}, \frac{2}{109}\sqrt{429e^{13}}, \frac{1}{109}\sqrt{2262e^{34}}, \frac{2}{109}\sqrt{78e^{26}}$	$(\frac{28}{109}, -\frac{6}{109}, -\frac{39}{109}, \frac{28}{109}, \frac{12}{109}, \frac{22}{109}, -\frac{11}{109}, -\frac{11}{109}, \frac{16}{109})$ $+\frac{26}{109}\sqrt{6e^1} \otimes e_8 + \frac{3}{109}\sqrt{390e^4} \otimes e_7$	{123459, 12349, 12579, 1279, 134569, 13469, 15679, 1679, 235678, 23678, 24568, 2468, 3578, 378, 458, 48}
941:3	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{273e^{12}}, \frac{2}{109}\sqrt{429e^{13}}, \frac{1}{109}\sqrt{2262e^{34}}, \frac{2}{109}\sqrt{78e^{26}}$	$(\frac{28}{109}, -\frac{6}{109}, -\frac{39}{109}, \frac{28}{109}, \frac{12}{109}, \frac{22}{109}, -\frac{11}{109}, -\frac{11}{109}, \frac{16}{109})$ $+\frac{26}{109}\sqrt{6e^1} \otimes e_8 - \frac{3}{109}\sqrt{390e^4} \otimes e_7$	{123459, 12349, 12579, 1279, 134569, 13469, 15679, 1679, 235678, 23678, 24568, 2468, 3578, 378, 458, 48}
941:3	$0, 0, 0, 0, 0, \frac{1}{1971}\sqrt{534302e^{12}}, \frac{16}{1971}\sqrt{1389e^{13}}, \frac{1}{1971}\sqrt{726910e^{34}},$ $\frac{1}{1971}\sqrt{415774e^{26}}$	$(\frac{17}{1971}, \frac{107}{657}, -\frac{191}{1971}, \frac{49}{1971}, -\frac{46}{219}, \frac{338}{1971}, -\frac{58}{657}, -\frac{142}{1971}, \frac{659}{1971})$ $+\frac{1}{1971}\sqrt{1052862e^2} \otimes e_8 + \frac{4}{1971}\sqrt{36114e^4} \otimes e_5$	{123479, 1259, 1356789, 14689, 2346, 2567, 358, 478}
941:3	$0, 0, 0, 0, 0, \frac{2}{301}\sqrt{1155e^{12}}, \frac{10}{903}\sqrt{33e^{13}}, \frac{2}{301}\sqrt{1870e^{34}}, \frac{2}{903}\sqrt{16555e^{26}}$	$(-\frac{25}{301}, \frac{62}{903}, \frac{53}{301}, -\frac{69}{301}, \frac{33}{301}, -\frac{13}{903}, \frac{4}{43}, -\frac{16}{301}, \frac{7}{129})$ $+\frac{2}{301}\sqrt{2145e^3} \otimes e_9 + \frac{2}{903}\sqrt{24915e^2} \otimes e_8$	{1259, 129, 145689, 14689, 23456, 2346, 358, 38}
941:3	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3e^{12}}, \frac{1}{9}\sqrt{6e^{13}}, \frac{2}{9}\sqrt{3e^{34}}, \frac{1}{3}\sqrt{2e^{26}}$	$(0, 0, 0, \frac{1}{3}, -\frac{1}{3}, 0, 0, \frac{1}{3}, 0)$ $+\frac{2}{9}\sqrt{6e^2} \otimes e_5 + \frac{2}{9}\sqrt{6e^4} \otimes e_9$	{123789, 129, 1356789, 1569, 2346, 24678, 345, 4578}
941:3	$0, 0, 0, 0, 0, \frac{1}{1949}\sqrt{1654e^{12}}, \frac{8}{1949}\sqrt{5789e^{13}}, \frac{5}{1949}\sqrt{38042e^{34}},$ $\frac{8}{1949}\sqrt{10751e^{26}}$	$(\frac{2}{1949}, -\frac{190}{1949}, \frac{449}{1949}, \frac{353}{1949}, -\frac{474}{1949}, -\frac{188}{1949}, \frac{451}{1949}, \frac{802}{1949}, -\frac{378}{1949})$ $+\frac{1}{1949}\sqrt{1159454e^4} \otimes e_5 + \frac{1}{1949}\sqrt{1688734e^3} \otimes e_9$	{124789, 12579, 146789, 15679, 23467, 235678, 347, 3578}
941:3	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{102e^{12}}, \frac{1}{14}\sqrt{51e^{13}}, \frac{1}{14}\sqrt{102e^{34}}, \frac{1}{56}\sqrt{357e^{26}}$	$(\frac{4}{7}, -\frac{9}{56}, -\frac{27}{112}, -\frac{11}{112}, \frac{3}{16}, \frac{23}{16}, \frac{37}{112}, -\frac{19}{56}, \frac{1}{4})$ $+\frac{1}{56}\sqrt{4641e^1} \otimes e_8$	{123459, 12349, 12579, 1279, 134569, 13469, 15679, 1679, 235678, 23678, 24568, 2468, 3578, 378, 458, 48}
941:3	$0, 0, 0, 0, 0, \frac{2}{1937}\sqrt{221583e^{12}}, \frac{1}{1937}\sqrt{48930e^{13}}, \frac{8}{1937}\sqrt{7689e^{34}},$ $\frac{1}{1937}\sqrt{501882e^{26}}$	$(\frac{422}{1937}, \frac{84}{1937}, -\frac{12}{149}, -\frac{121}{1937}, -\frac{615}{1937}, \frac{506}{1937}, \frac{266}{1937}, -\frac{277}{1937}, \frac{590}{1937})$ $+\frac{2}{1937}\sqrt{300570e^1} \otimes e_8 + \frac{6}{1937}\sqrt{32853e^2} \otimes e_5$	{12349, 1279, 134569, 15679, 23678, 2468, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{2}{967}\sqrt{13731e^{12}}, \frac{4}{967}\sqrt{15522e^{13}}, \frac{20}{967}\sqrt{199e^{34}},$ $\frac{4}{967}\sqrt{10149e^{26}}$	$(-\frac{138}{967}, -\frac{30}{967}, \frac{200}{967}, \frac{5}{967}, \frac{460}{967}, -\frac{168}{967}, \frac{62}{967}, \frac{205}{967}, -\frac{198}{967})$ $+\frac{26}{967}\sqrt{597e^3} \otimes e_9 + \frac{2}{967}\sqrt{70645e^5} \otimes e_7$	{123456, 123568, 1345, 1358, 24589, 259, 45689, 569}
941:3	$0, 0, 0, 0, 0, \frac{20}{967}\sqrt{199e^{12}}, \frac{4}{967}\sqrt{15522e^{13}}, \frac{2}{967}\sqrt{13731e^{34}},$ $\frac{4}{967}\sqrt{10149e^{26}}$	$(-\frac{307}{967}, \frac{308}{967}, \frac{217}{967}, -\frac{181}{967}, \frac{105}{967}, \frac{1}{967}, -\frac{90}{967}, \frac{36}{967}, \frac{309}{967})$ $+\frac{26}{967}\sqrt{597e^2} \otimes e_7 + \frac{2}{967}\sqrt{70645e^3} \otimes e_4$	{12359, 1239, 145679, 14679, 2456, 246, 357, 37}
941:3	$0, 0, 0, 0, 0, \frac{16}{2791}\sqrt{1245e^{12}}, \frac{80}{2791}\sqrt{6e^{13}}, \frac{88}{2791}\sqrt{70e^{34}},$ $\frac{136}{2791}\sqrt{30e^{26}}$	$(-\frac{270}{2791}, \frac{189}{2791}, \frac{428}{2791}, -\frac{559}{2791}, \frac{478}{2791}, -\frac{81}{2791}, \frac{158}{2791}, -\frac{131}{2791}, \frac{108}{2791})$ $+\frac{16}{2791}\sqrt{3165e^2} \otimes e_8 + \frac{80}{2791}\sqrt{19e^5} \otimes e_7 + \frac{8}{2791}\sqrt{10470e^3} \otimes e_9$	{1279, 146789, 23467, 378}
941:3	$0, 0, 0, 0, 0, \frac{2}{2201}\sqrt{37759e^{12}}, \frac{2}{2201}\sqrt{184462e^{13}}, \frac{1}{2201}\sqrt{662330e^{34}},$ $\frac{2}{2201}\sqrt{136799e^{26}}$	$(-\frac{244}{2201}, -\frac{90}{2201}, \frac{195}{2201}, \frac{570}{2201}, \frac{230}{2201}, -\frac{334}{2201}, -\frac{49}{2201}, \frac{765}{2201}, -\frac{424}{2201})$ $+\frac{4}{2201}\sqrt{84803e^3} \otimes e_9 + \frac{5}{2201}\sqrt{43330e^4} \otimes e_7$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
941:3	$0, 0, 0, 0, 0, \frac{22}{4761}\sqrt{2110e^{12}}, \frac{44}{4761}\sqrt{1405e^{13}}, \frac{22}{4761}\sqrt{1185e^{34}},$ $\frac{22}{4761}\sqrt{5990e^{26}}$	$(-\frac{1133}{4761}, \frac{770}{4761}, \frac{77}{529}, -\frac{517}{4761}, \frac{539}{1587}, -\frac{121}{1587}, -\frac{440}{4761}, \frac{176}{4761}, \frac{407}{4761})$ $+\frac{22}{4761}\sqrt{5835e^3} \otimes e_4 + \frac{22}{4761}\sqrt{9885e^2} \otimes e_7 + \frac{44}{4761}\sqrt{1505e^5} \otimes e_9$	{1239, 14679, 2456, 357}
941:3	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{23777e^{12}}, \frac{2}{639}\sqrt{22971e^{13}}, \frac{4}{639}\sqrt{23374e^{34}},$ $\frac{4}{639}\sqrt{4030e^{26}}$	$(\frac{118}{639}, \frac{7}{213}, -\frac{55}{639}, -\frac{112}{639}, 1, \frac{139}{639}, \frac{7}{71}, -\frac{167}{639}, \frac{160}{639})$ $+\frac{2}{639}\sqrt{209157e^5} \otimes e_8$	{1234579, 123789, 12489, 1259, 1345679, 136789, 14689, 1569, 23456, 2368, 24678, 2567, 345, 38, 478, 57}
941:3	$0, 0, 0, 0, 0, \frac{1}{1949}\sqrt{1654e^{12}}, \frac{8}{1949}\sqrt{5789e^{13}}, \frac{5}{1949}\sqrt{38042e^{34}},$ $\frac{8}{1949}\sqrt{10751e^{26}}$	$(\frac{2}{1949}, -\frac{190}{1949}, \frac{449}{1949}, -\frac{348}{1949}, \frac{928}{1949}, -\frac{188}{1949}, \frac{451}{1949}, \frac{101}{1949}, -\frac{378}{1949})$ $+\frac{1}{1949}\sqrt{1159454e^5} \otimes e_8 + \frac{1}{1949}\sqrt{1688734e^3} \otimes e_9$	{124789, 12579, 146789, 15679, 234567, 23678, 3457, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:3	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{18}\sqrt{23}e^{13}, \frac{1}{18}\sqrt{46}e^{34}, \frac{1}{9}\sqrt{69}e^{26}$	$(\frac{1}{9}, -\frac{7}{36}, \frac{1}{9}, \frac{5}{36}, 1, -\frac{1}{12}, \frac{2}{9}, \frac{1}{4}, -\frac{5}{18})$ $+\frac{1}{18}\sqrt{667}e^5 \otimes e_9$	{12349, 12389, 124789, 1279, 13469, 13689, 146789, 1679, 234567, 235678, 24568, 256, 3457, 3578, 458, 5}
941:3	$0, 0, 0, 0, 0, \frac{2}{4629}\sqrt{384335}e^{12}, \frac{2}{4629}\sqrt{310865}e^{13}, \frac{4}{4629}\sqrt{36735}e^{34}, \frac{8}{4629}\sqrt{26070}e^{26}$	$(\frac{143}{4629}, \frac{72}{1543}, -\frac{239}{1543}, \frac{70}{4629}, \frac{455}{1543}, \frac{359}{4629}, -\frac{574}{4629}, -\frac{647}{4629}, \frac{575}{4629})$ $+\frac{2}{4629}\sqrt{364585}e^5 \otimes e_9 + \frac{2}{4629}\sqrt{577095}e^1 \otimes e_8 + \frac{2}{4629}\sqrt{712185}e^2 \otimes e_7$	{12349, 1679, 24568, 3578}
941:3	$0, 0, 0, 0, 0, \frac{2}{627}\sqrt{1203}e^{12}, \frac{1}{627}\sqrt{76190}e^{13}, \frac{2}{627}\sqrt{18446}e^{34}, \frac{1}{627}\sqrt{89022}e^{26}$	$(-\frac{4}{209}, -\frac{28}{627}, -\frac{10}{57}, \frac{93}{209}, \frac{111}{209}, -\frac{40}{627}, -\frac{122}{627}, \frac{169}{627}, -\frac{68}{627})$ $+\frac{14}{627}\sqrt{1203}e^4 \otimes e_7 + \frac{16}{627}\sqrt{802}e^5 \otimes e_9$	{123456, 12567, 1345, 157, 23789, 2489, 36789, 4689}
941:3	$0, 0, 0, 0, 0, \frac{2}{1577}\sqrt{128557}e^{12}, \frac{3}{1577}\sqrt{19778}e^{13}, \frac{22}{1577}\sqrt{899}e^{34}, \frac{29}{1577}\sqrt{682}e^{26}$	$(-\frac{180}{1577}, \frac{352}{1577}, -\frac{136}{1577}, \frac{583}{1577}, -\frac{547}{1577}, \frac{172}{1577}, -\frac{316}{1577}, \frac{447}{1577}, \frac{524}{1577})$ $+\frac{4}{1577}\sqrt{84506}e^2 \otimes e_5 + \frac{62}{1577}\sqrt{290}e^4 \otimes e_7$	{12349, 1279, 134569, 15679, 23678, 2468, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{1}{1899}\sqrt{287918}e^{12}, \frac{4}{1899}\sqrt{5385}e^{13}, \frac{23}{1899}\sqrt{718}e^{34}, \frac{1}{1899}\sqrt{362590}e^{26}$	$(-\frac{95}{1899}, \frac{59}{633}, -\frac{223}{1899}, \frac{41}{1899}, \frac{206}{633}, \frac{82}{1899}, -\frac{106}{633}, -\frac{182}{1899}, \frac{259}{1899})$ $+\frac{16}{1899}\sqrt{1077}e^4 \otimes e_7 + \frac{1}{1899}\sqrt{644046}e^2 \otimes e_8 + \frac{4}{633}\sqrt{2154}e^5 \otimes e_9$	{136789, 14689, 23456, 2567}
941:3	$0, 0, 0, 0, 0, \frac{2}{367}\sqrt{9515}e^{12}, \frac{1}{367}\sqrt{11418}e^{13}, \frac{2}{367}\sqrt{9515}e^{34}, \frac{3}{367}\sqrt{3806}e^{26}$	$(-\frac{26}{367}, \frac{88}{367}, -\frac{26}{367}, -\frac{59}{367}, \frac{121}{367}, \frac{62}{367}, -\frac{52}{367}, -\frac{85}{367}, \frac{150}{367})$ $+\frac{2}{367}\sqrt{21279}e^2 \otimes e_8 + \frac{3}{367}\sqrt{6055}e^5 \otimes e_7$	{123479, 1259, 136789, 145689, 23456, 267, 358, 478}
941:3	$0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{7973}e^{12}, \frac{2}{2097}\sqrt{105927}e^{13}, \frac{7}{2097}\sqrt{29614}e^{34}, \frac{2}{2097}\sqrt{43282}e^{26}$	$(\frac{28}{2097}, \frac{46}{699}, -\frac{595}{2097}, \frac{572}{2097}, \frac{124}{233}, \frac{166}{2097}, -\frac{63}{233}, -\frac{23}{2097}, \frac{304}{2097})$ $+\frac{1}{699}\sqrt{248302}e^4 \otimes e_7 + \frac{4}{2097}\sqrt{126429}e^5 \otimes e_8$	{123459, 12579, 134569, 15679, 23678, 2468, 378, 48}
941:3	$0, 0, 0, 0, 0, \frac{1}{155}\sqrt{3002}e^{12}, \frac{1}{155}\sqrt{6162}e^{13}, \frac{1}{155}\sqrt{3002}e^{34}, \frac{2}{155}\sqrt{237}e^{26}$	$(\frac{38}{155}, -\frac{7}{155}, \frac{19}{155}, -\frac{12}{31}, \frac{18}{155}, \frac{1}{5}, \frac{57}{155}, -\frac{41}{155}, \frac{24}{155})$ $+\frac{1}{155}\sqrt{9322}e^3 \otimes e_4 + \frac{2}{155}\sqrt{3081}e^1 \otimes e_8$	{235678, 23678, 24568, 2468, 3578, 378, 458, 48}
941:3	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{1834}e^{12}, \frac{1}{103}\sqrt{10218}e^{13}, \frac{1}{103}\sqrt{1834}e^{34}, \frac{2}{103}\sqrt{393}e^{26}$	$(-\frac{14}{103}, \frac{19}{103}, \frac{71}{103}, -\frac{60}{103}, \frac{18}{103}, \frac{5}{103}, \frac{57}{103}, \frac{11}{103}, \frac{24}{103})$ $+\frac{1}{103}\sqrt{22270}e^3 \otimes e_4$	{12356, 1236, 124567, 12467, 13, 135, 1457, 147, 23579, 2379, 2459, 249, 35679, 3679, 4569, 469}
941:3	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{38}e^{12}, \frac{1}{37}\sqrt{570}e^{13}, \frac{2}{37}\sqrt{38}e^{34}, \frac{1}{37}\sqrt{38}e^{26}$	$(-\frac{8}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{10}{37}, \frac{20}{37}, -\frac{2}{37}, \frac{1}{37}, -\frac{1}{37}, \frac{4}{37})$ $+\frac{1}{37}\sqrt{646}e^3 \otimes e_4 + \frac{1}{37}\sqrt{646}e^5 \otimes e_7$	{12356, 12467, 135, 147, 2379, 2459, 3679, 4569}
941:3	$0, 0, 0, 0, 0, \frac{1}{542}\sqrt{18091}e^{12}, \frac{1}{542}\sqrt{27938}e^{13}, \frac{1}{542}\sqrt{92058}e^{34}, \frac{1}{542}\sqrt{49922}e^{26}$	$(\frac{79}{542}, -\frac{91}{542}, -\frac{165}{1084}, \frac{63}{271}, \frac{545}{1084}, -\frac{6}{271}, -\frac{7}{1084}, \frac{87}{1084}, -\frac{103}{542})$ $+\frac{1}{542}\sqrt{98470}e^5 \otimes e_8 + \frac{7}{542}\sqrt{2519}e^4 \otimes e_9$	{123789, 1259, 136789, 1569, 23456, 24678, 345, 478}
941:3	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{186}e^{12}, \frac{1}{33}\sqrt{186}e^{13}, \frac{1}{33}\sqrt{186}e^{34}, \frac{1}{33}\sqrt{682}e^{26}$	$(-\frac{1}{11}, \frac{10}{33}, \frac{2}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{7}{33}, \frac{1}{11}, \frac{3}{11}, \frac{17}{33})$ $+\frac{1}{11}\sqrt{186}e^2 \otimes e_5$	{123479, 123789, 12489, 129, 1345679, 1356789, 145689, 1569, 2346, 2368, 24678, 267, 345, 358, 4578, 57}
941:3	$0, 0, 0, 0, 0, \frac{13}{2017}\sqrt{606}e^{12}, \frac{2}{2017}\sqrt{63933}e^{13}, \frac{1}{2017}\sqrt{173922}e^{34}, \frac{2}{2017}\sqrt{86961}e^{26}$	$(-\frac{396}{2017}, \frac{186}{2017}, \frac{279}{2017}, -\frac{92}{2017}, \frac{490}{2017}, -\frac{210}{2017}, -\frac{117}{2017}, \frac{187}{2017}, -\frac{24}{2017})$ $+\frac{1}{2017}\sqrt{178770}e^5 \otimes e_8 + \frac{1}{2017}\sqrt{480558}e^3 \otimes e_9 + \frac{2}{2017}\sqrt{111201}e^2 \otimes e_7$	{146789, 15679, 3457, 378}
941:3	$0, 0, 0, 0, 0, \frac{1}{99}\sqrt{2170}e^{12}, \frac{2}{99}\sqrt{93}e^{13}, \frac{5}{99}\sqrt{62}e^{34}, \frac{1}{99}\sqrt{1426}e^{26}$	$(\frac{13}{99}, \frac{1}{9}, -\frac{7}{99}, -\frac{13}{99}, -\frac{2}{11}, \frac{8}{33}, \frac{2}{33}, -\frac{20}{99}, \frac{35}{99})$ $+\frac{1}{99}\sqrt{3534}e^2 \otimes e_8 + \frac{2}{99}\sqrt{465}e^1 \otimes e_5$	{123479, 129, 136789, 14689, 23456, 2567, 358, 4578}
941:3	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{6}{787}\sqrt{2365}e^{13}, \frac{4}{787}\sqrt{4730}e^{34}, \frac{8}{787}\sqrt{2365}e^{26}$	$(-\frac{138}{787}, \frac{209}{787}, -\frac{83}{787}, \frac{275}{787}, -\frac{155}{787}, \frac{71}{787}, -\frac{221}{787}, \frac{192}{787}, \frac{280}{787})$ $+\frac{2}{787}\sqrt{55685}e^4 \otimes e_5 + \frac{4}{787}\sqrt{22790}e^2 \otimes e_7$	{12349, 123589, 146789, 15679, 2468, 256, 347, 3578}
941:3	$0, 0, 0, 0, 0, \frac{1}{599}\sqrt{40854}e^{12}, \frac{1}{1797}\sqrt{204270}e^{13}, \frac{4}{1797}\sqrt{20427}e^{34}, \frac{1}{1797}\sqrt{741562}e^{26}$	$(-\frac{82}{599}, \frac{160}{1797}, -\frac{71}{599}, \frac{231}{599}, \frac{72}{599}, -\frac{86}{1797}, -\frac{153}{599}, \frac{160}{599}, \frac{74}{1797})$ $+\frac{1}{1797}\sqrt{917358}e^4 \otimes e_9 + \frac{4}{1797}\sqrt{64995}e^2 \otimes e_7$	{123589, 12389, 15679, 1679, 24568, 2468, 3457, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:3	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{6}{61}\sqrt{6}e^{13}, \frac{3}{61}\sqrt{114}e^{34}, \frac{18}{61}\sqrt{2}e^{26}$	$(\frac{2}{61}, -\frac{6}{61}, \frac{9}{61}, \frac{17}{61}, -\frac{18}{61}, -\frac{4}{61}, \frac{11}{61}, \frac{26}{61}, -\frac{10}{61})$ $+ \frac{15}{61}\sqrt{6}e^3 \otimes e_5 + \frac{3}{61}\sqrt{174}e^4 \otimes e_9$	{12389, 12579, 13689, 15679, 23467, 24568, 347, 458}
941:3	$0, 0, 0, 0, 0, \frac{5}{1691}\sqrt{1506}e^{12}, \frac{9}{1691}\sqrt{7530}e^{13}, \frac{1}{1691}\sqrt{584830}e^{34}, \frac{2}{1691}\sqrt{41415}e^{26}$	$(-\frac{30}{1691}, \frac{147}{1691}, \frac{471}{1691}, -\frac{784}{1691}, \frac{942}{1691}, \frac{117}{1691}, \frac{441}{1691}, -\frac{313}{1691}, \frac{264}{1691})$ $+ \frac{1}{1691}\sqrt{1879990}e^3 \otimes e_4 + \frac{4}{1691}\sqrt{116715}e^5 \otimes e_8$	{12368, 124678, 138, 1478, 23789, 2489, 36789, 4689}
941:3	$0, 0, 0, 0, 0, \frac{2}{1331}\sqrt{6603}e^{12}, \frac{1}{1331}\sqrt{22134}e^{13}, \frac{1}{1331}\sqrt{38254}e^{34}, \frac{2}{1331}\sqrt{7719}e^{26}$	$(\frac{6}{121}, -\frac{3}{1331}, -\frac{125}{1331}, \frac{91}{1331}, -\frac{28}{1331}, \frac{63}{1331}, -\frac{59}{1331}, -\frac{34}{1331}, \frac{60}{1331})$ $+ \frac{1}{1331}\sqrt{10106}e^5 \otimes e_7 + \frac{1}{1331}\sqrt{35526}e^4 \otimes e_9 + \frac{2}{1331}\sqrt{12183}e^2 \otimes e_8$	{129, 1356789, 2346, 4578}
941:3	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{22}e^{12}, \frac{1}{29}\sqrt{66}e^{13}, \frac{2}{29}\sqrt{22}e^{34}, \frac{1}{29}\sqrt{110}e^{26}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{3}{29}, -\frac{8}{29}, \frac{10}{29}, \frac{2}{29}, -\frac{1}{29}, -\frac{5}{29}, \frac{8}{29})$ $+ \frac{1}{29}\sqrt{154}e^3 \otimes e_4 + \frac{1}{29}\sqrt{154}e^5 \otimes e_7 + \frac{2}{29}\sqrt{66}e^2 \otimes e_8$	{135689, 146789, 378, 458}
941:3	$0, 0, 0, 0, 0, \frac{2}{99}\sqrt{42}e^{12}, \frac{2}{99}\sqrt{434}e^{13}, \frac{2}{99}\sqrt{42}e^{34}, \frac{2}{99}\sqrt{35}e^{26}$	$(\frac{2}{33}, \frac{2}{99}, \frac{1}{33}, -\frac{25}{99}, \frac{37}{99}, \frac{8}{99}, \frac{1}{11}, -\frac{2}{99}, \frac{10}{99})$ $+ \frac{2}{99}\sqrt{413}e^3 \otimes e_4 + \frac{2}{99}\sqrt{413}e^5 \otimes e_7 + \frac{2}{99}\sqrt{455}e^1 \otimes e_8$	{23678, 24568, 378, 458}
941:3	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{6}{787}\sqrt{2365}e^{13}, \frac{4}{787}\sqrt{4730}e^{34}, \frac{8}{787}\sqrt{2365}e^{26}$	$(-\frac{138}{787}, \frac{209}{787}, -\frac{83}{787}, \frac{16}{787}, \frac{363}{787}, \frac{71}{787}, \frac{221}{787}, -\frac{67}{787}, \frac{280}{787})$ $+ \frac{2}{787}\sqrt{55685}e^5 \otimes e_8 + \frac{4}{787}\sqrt{22790}e^2 \otimes e_7$	{123459, 12389, 146789, 15679, 2468, 256, 3457, 378}
941:3	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{430}e^{12}, \frac{4}{159}\sqrt{129}e^{13}, \frac{1}{53}\sqrt{430}e^{34}, \frac{1}{159}\sqrt{4558}e^{26}$	$(-\frac{1}{53}, \frac{13}{159}, -\frac{1}{53}, -\frac{9}{53}, \frac{22}{53}, \frac{10}{159}, -\frac{2}{53}, -\frac{10}{53}, \frac{23}{159})$ $+ \frac{1}{159}\sqrt{7998}e^2 \otimes e_8 + \frac{4}{159}\sqrt{258}e^5 \otimes e_9$	{123479, 129, 136789, 14689, 23456, 2567, 358, 4578}
941:3	$0, 0, 0, 0, 0, \frac{12}{2033}\sqrt{3953}e^{12}, \frac{15}{2033}\sqrt{2006}e^{13}, \frac{6}{2033}\sqrt{6549}e^{34}, \frac{84}{2033}\sqrt{59}e^{26}$	$(\frac{130}{2033}, \frac{248}{2033}, -\frac{413}{2033}, \frac{12}{2033}, \frac{234}{2033}, \frac{378}{2033}, -\frac{283}{2033}, -\frac{401}{2033}, \frac{626}{2033})$ $+ \frac{3}{2033}\sqrt{101126}e^1 \otimes e_8 + \frac{6}{2033}\sqrt{27789}e^2 \otimes e_7$	{123459, 12349, 15679, 1679, 24568, 2468, 3578, 378}
941:3	$0, 0, 0, 0, 0, \frac{8}{1937}\sqrt{7689}e^{12}, \frac{1}{1937}\sqrt{48930}e^{13}, \frac{2}{1937}\sqrt{221583}e^{34}, \frac{1}{1937}\sqrt{501882}e^{26}$	$(\frac{704}{1937}, \frac{480}{1937}, -\frac{438}{1937}, \frac{443}{1937}, \frac{231}{1937}, \frac{224}{1937}, \frac{266}{1937}, \frac{5}{1937}, -\frac{256}{1937})$ $+ \frac{2}{1937}\sqrt{300570}e^1 \otimes e_8 + \frac{6}{1937}\sqrt{32853}e^4 \otimes e_9$	{12579, 1279, 15679, 1679, 24568, 2468, 458, 48}
941:3	$0, 0, 0, 0, 0, \frac{4}{3615}\sqrt{55142}e^{12}, \frac{8}{3615}\sqrt{33654}e^{13}, \frac{8}{3615}\sqrt{2054}e^{34}, \frac{4}{3615}\sqrt{100014}e^{26}$	$(-\frac{851}{3615}, \frac{917}{3615}, \frac{168}{1205}, -\frac{152}{723}, \frac{336}{1205}, \frac{22}{1205}, -\frac{347}{3615}, -\frac{256}{3615}, \frac{983}{3615})$ $+ \frac{184}{3615}\sqrt{79}e^3 \otimes e_4 + \frac{4}{3615}\sqrt{244742}e^2 \otimes e_7 + \frac{8}{3615}\sqrt{25991}e^5 \otimes e_8$	{12389, 146789, 2468, 378}
941:3	$0, 0, 0, 0, 0, \frac{6}{695}\sqrt{957}e^{12}, \frac{3}{695}\sqrt{7598}e^{13}, \frac{6}{695}\sqrt{957}e^{34}, \frac{3}{695}\sqrt{4582}e^{26}$	$(\frac{132}{695}, -\frac{78}{695}, \frac{66}{695}, -\frac{39}{139}, \frac{237}{695}, \frac{54}{695}, \frac{198}{695}, -\frac{129}{695}, -\frac{24}{695})$ $+ \frac{42}{695}\sqrt{58}e^3 \otimes e_4 + \frac{6}{695}\sqrt{2465}e^5 \otimes e_9 + \frac{6}{695}\sqrt{3799}e^1 \otimes e_8$	{235678, 24568, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{4}{2281}\sqrt{5565}e^{12}, \frac{3}{2281}\sqrt{48230}e^{13}, \frac{14}{2281}\sqrt{1537}e^{34}, \frac{2}{2281}\sqrt{65667}e^{26}$	$(\frac{240}{2281}, -\frac{270}{2281}, \frac{71}{2281}, -\frac{202}{2281}, \frac{682}{2281}, -\frac{30}{2281}, \frac{311}{2281}, -\frac{131}{2281}, -\frac{300}{2281})$ $+ \frac{1}{2281}\sqrt{549822}e^1 \otimes e_8 + \frac{2}{2281}\sqrt{159159}e^3 \otimes e_9 + \frac{2}{2281}\sqrt{88669}e^5 \otimes e_7$	{1279, 1679, 23678, 378}
941:3	$0, 0, 0, 0, 0, \frac{1}{1313}\sqrt{18530}e^{12}, \frac{4}{1313}\sqrt{6431}e^{13}, \frac{2}{1313}\sqrt{39131}e^{34}, \frac{2}{1313}\sqrt{22454}e^{26}$	$(-\frac{85}{1313}, -\frac{55}{1313}, \frac{23}{1313}, \frac{12}{101}, \frac{397}{1313}, -\frac{140}{1313}, -\frac{62}{1313}, \frac{179}{1313}, -\frac{15}{101})$ $+ \frac{1}{1313}\sqrt{125786}e^5 \otimes e_8 + \frac{1}{1313}\sqrt{177234}e^4 \otimes e_7 + \frac{1}{1313}\sqrt{222142}e^3 \otimes e_9$	{123456, 1345, 2489, 4689}
941:3	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{186}e^{12}, \frac{1}{33}\sqrt{186}e^{13}, \frac{2}{33}\sqrt{186}e^{34}, \frac{1}{33}\sqrt{682}e^{26}$	$(\frac{2}{11}, -\frac{8}{33}, -\frac{1}{11}, \frac{7}{11}, \frac{2}{11}, -\frac{3}{33}, \frac{1}{11}, \frac{6}{11}, -\frac{10}{33})$ $+ \frac{1}{11}\sqrt{186}e^4 \otimes e_9$	{1235789, 123789, 1259, 129, 1356789, 136789, 1569, 169, 23456, 2346, 245678, 24678, 34, 345, 4578, 478}
941:3	$0, 0, 0, 0, 0, \frac{2}{627}\sqrt{4330}e^{12}, \frac{1}{627}\sqrt{113446}e^{13}, \frac{2}{627}\sqrt{4330}e^{34}, \frac{1}{627}\sqrt{99590}e^{26}$	$(-\frac{40}{627}, -\frac{8}{209}, \frac{22}{57}, -\frac{191}{627}, \frac{115}{209}, -\frac{64}{627}, \frac{202}{627}, \frac{17}{209}, -\frac{8}{57})$ $+ \frac{2}{627}\sqrt{59321}e^5 \otimes e_9 + \frac{2}{627}\sqrt{61053}e^3 \otimes e_4$	{12356, 124567, 135, 1457, 2379, 249, 3679, 469}
941:3	$0, 0, 0, 0, 0, \frac{2}{383}\sqrt{8194}e^{12}, \frac{1}{383}\sqrt{18798}e^{13}, \frac{1}{383}\sqrt{1446}e^{34}, \frac{9}{383}\sqrt{482}e^{26}$	$(-\frac{59}{383}, \frac{94}{383}, \frac{146}{383}, -\frac{95}{383}, -\frac{147}{383}, \frac{35}{383}, \frac{87}{383}, \frac{51}{383}, \frac{129}{383})$ $+ \frac{1}{383}\sqrt{93990}e^2 \otimes e_5 + \frac{2}{383}\sqrt{16870}e^3 \otimes e_4$	{12389, 124789, 135689, 1456789, 23678, 2468, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{5}{99}\sqrt{62}e^{12}, \frac{2}{99}\sqrt{93}e^{13}, \frac{1}{99}\sqrt{2170}e^{34}, \frac{1}{99}\sqrt{1426}e^{26}$	$(-\frac{7}{99}, \frac{7}{33}, \frac{13}{99}, -\frac{23}{99}, -\frac{2}{11}, \frac{14}{99}, \frac{2}{33}, -\frac{10}{99}, \frac{35}{99})$ $+ \frac{1}{99}\sqrt{3534}e^2 \otimes e_8 + \frac{2}{99}\sqrt{465}e^3 \otimes e_5$	{123479, 1259, 136789, 145689, 2346, 2567, 38, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:3	$0, 0, 0, 0, 0, \frac{2}{603}\sqrt{18535}e^{12}, \frac{1}{603}\sqrt{37070}e^{13}, \frac{2}{603}\sqrt{18535}e^{34}, \frac{1}{201}\sqrt{7414}e^{26}$	$(\frac{220}{603}, -\frac{130}{603}, -\frac{86}{603}, -\frac{31}{603}, \frac{33}{67}, \frac{10}{67}, \frac{2}{9}, -\frac{13}{67}, -\frac{40}{603}) + \frac{2}{201}\sqrt{5729}e^1 \otimes e_8 + \frac{2}{603}\sqrt{36733}e^5 \otimes e_9$	{12349, 1279, 13469, 1679, 235678, 24568, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{1313}e^{12}, \frac{6}{521}\sqrt{221}e^{13}, \frac{12}{521}\sqrt{546}e^{34}, \frac{12}{521}\sqrt{65}e^{26}$	$(\frac{202}{521}, -\frac{61}{521}, -\frac{125}{521}, \frac{93}{521}, -\frac{141}{521}, \frac{141}{521}, \frac{77}{521}, -\frac{32}{521}, \frac{80}{521}) + \frac{156}{521}\sqrt{5}e^1 \otimes e_8 + \frac{6}{521}\sqrt{2613}e^4 \otimes e_5$	{12349, 12579, 13469, 15679, 235678, 2468, 3578, 48}
941:3	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{3290}e^{12}, \frac{1}{229}\sqrt{11562}e^{13}, \frac{6}{229}\sqrt{141}e^{34}, \frac{1}{229}\sqrt{8930}e^{26}$	$(\frac{35}{229}, -\frac{75}{458}, \frac{54}{229}, \frac{1}{458}, -\frac{59}{229}, -\frac{5}{229}, \frac{89}{229}, \frac{109}{229}, -\frac{40}{229}) + \frac{1}{229}\sqrt{16262}e^1 \otimes e_5 + \frac{2}{229}\sqrt{5405}e^3 \otimes e_9$	{124789, 1279, 146789, 1679, 234567, 235678, 3457, 3578}
941:3	$0, 0, 0, 0, 0, \frac{2}{3913}\sqrt{236269}e^{12}, \frac{2}{3913}\sqrt{41587}e^{13}, \frac{4}{3913}\sqrt{97341}e^{34}, \frac{2}{3913}\sqrt{461570}e^{26}$	$(-\frac{232}{3913}, \frac{115}{3913}, -\frac{81}{559}, \frac{912}{3913}, \frac{1259}{3913}, -\frac{9}{301}, -\frac{799}{3913}, \frac{345}{3913}, -\frac{2}{3913}) + \frac{2}{3913}\sqrt{403531}e^5 \otimes e_8 + \frac{2}{3913}\sqrt{578562}e^2 \otimes e_7 + \frac{4}{3913}\sqrt{158579}e^4 \otimes e_9$	{12389, 15679, 2468, 3457}
941:3	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{910}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{2}{81}\sqrt{91}e^{34}, \frac{1}{81}\sqrt{910}e^{26}$	$(\frac{40}{81}, -\frac{10}{81}, -\frac{4}{81}, \frac{17}{81}, -\frac{17}{81}, \frac{10}{27}, \frac{9}{81}, \frac{13}{81}, \frac{20}{81}) + \frac{2}{81}\sqrt{3003}e^1 \otimes e_5$	{123489, 1239, 12479, 12789, 134689, 1369, 14679, 16789, 2345678, 23567, 2456, 2568, 34578, 357, 45, 58}
941:3	$0, 0, 0, 0, 0, \frac{2}{2081}\sqrt{90118}e^{12}, \frac{21}{2081}\sqrt{3454}e^{13}, \frac{18}{2081}\sqrt{1099}e^{34}, \frac{1}{2081}\sqrt{151662}e^{26}$	$(\frac{328}{2081}, -\frac{26}{2081}, \frac{572}{2081}, -\frac{527}{2081}, -\frac{771}{2081}, \frac{302}{2081}, \frac{900}{2081}, \frac{45}{2081}, \frac{276}{2081}) + \frac{112}{2081}\sqrt{157}e^3 \otimes e_4 + \frac{2}{2081}\sqrt{537411}e^1 \otimes e_5$	{1239, 12479, 1369, 14679, 23567, 2456, 357, 45}
941:3	$0, 0, 0, 0, 0, \frac{2}{639}\sqrt{23777}e^{12}, \frac{2}{639}\sqrt{22971}e^{13}, \frac{4}{639}\sqrt{23374}e^{34}, \frac{4}{639}\sqrt{4030}e^{26}$	$(\frac{118}{639}, \frac{7}{213}, -\frac{55}{639}, \frac{407}{639}, -\frac{133}{213}, \frac{139}{639}, \frac{7}{71}, \frac{352}{639}, \frac{160}{639}) + \frac{2}{639}\sqrt{209157}e^4 \otimes e_5$	{123479, 1235789, 12489, 1259, 134679, 1356789, 14689, 1569, 2346, 23568, 24678, 2567, 34, 358, 478, 57}
941:3	$0, 0, 0, 0, 0, \frac{4}{223}\sqrt{134}e^{12}, \frac{4}{669}\sqrt{11658}e^{13}, \frac{4}{669}\sqrt{11055}e^{34}, \frac{4}{669}\sqrt{14941}e^{26}$	$(-\frac{12}{223}, -\frac{85}{669}, \frac{110}{223}, -\frac{15}{223}, \frac{40}{223}, -\frac{121}{669}, \frac{98}{223}, \frac{95}{223}, -\frac{206}{669}) + \frac{4}{223}\sqrt{4087}e^3 \otimes e_9$	{123456, 12346, 123568, 12368, 134, 1345, 1358, 138, 24589, 2489, 259, 29, 45689, 4689, 569, 69}
941:3	$0, 0, 0, 0, 0, \frac{2}{585}\sqrt{3859}e^{12}, \frac{1}{585}\sqrt{72186}e^{13}, \frac{2}{585}\sqrt{16117}e^{34}, \frac{1}{585}\sqrt{8626}e^{26}$	$(-\frac{68}{585}, \frac{8}{65}, \frac{4}{117}, \frac{179}{585}, -\frac{23}{65}, \frac{4}{585}, -\frac{16}{195}, \frac{199}{585}, \frac{76}{585}) + \frac{4}{585}\sqrt{7491}e^3 \otimes e_5 + \frac{4}{585}\sqrt{7491}e^4 \otimes e_7$	{12346, 12567, 134, 157, 23789, 24589, 36789, 45689}
941:3	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{1834}e^{12}, \frac{1}{103}\sqrt{10218}e^{13}, \frac{1}{103}\sqrt{1834}e^{34}, \frac{2}{103}\sqrt{393}e^{26}$	$(-\frac{14}{103}, \frac{19}{103}, -\frac{14}{103}, \frac{25}{103}, \frac{1}{103}, \frac{5}{103}, -\frac{28}{103}, \frac{11}{103}, \frac{24}{103}) + \frac{1}{103}\sqrt{22270}e^5 \otimes e_7$	{1234568, 12356, 12467, 12678, 13458, 135, 147, 178, 234789, 2379, 2459, 2589, 346789, 3679, 4569, 5689}
941:3	$0, 0, 0, 0, 0, \frac{6}{229}\sqrt{141}e^{12}, \frac{1}{229}\sqrt{11562}e^{13}, \frac{1}{229}\sqrt{3290}e^{34}, \frac{1}{229}\sqrt{8930}e^{26}$	$(-\frac{61}{229}, \frac{68}{229}, \frac{35}{229}, \frac{10}{229}, -\frac{59}{229}, \frac{7}{229}, -\frac{26}{229}, \frac{45}{229}, \frac{75}{229}) + \frac{1}{229}\sqrt{16262}e^3 \otimes e_5 + \frac{2}{229}\sqrt{5405}e^2 \otimes e_7$	{12349, 12389, 1456789, 15679, 24568, 256, 347, 378}
941:3	$0, 0, 0, 0, 0, \frac{14}{2193}\sqrt{546}e^{12}, \frac{1}{2193}\sqrt{75894}e^{13}, \frac{2}{2193}\sqrt{39585}e^{34}, \frac{1}{2193}\sqrt{133042}e^{26}$	$(\frac{12}{731}, \frac{28}{2193}, -\frac{82}{731}, \frac{61}{731}, \frac{69}{731}, \frac{64}{2193}, -\frac{70}{731}, -\frac{21}{731}, \frac{92}{2193}) + \frac{2}{2193}\sqrt{51870}e^2 \otimes e_8 + \frac{2}{731}\sqrt{4277}e^4 \otimes e_9$	{1259, 129, 1356789, 136789, 23456, 2346, 4578, 478}
941:3	$0, 0, 0, 0, 0, \frac{4}{1797}\sqrt{20427}e^{12}, \frac{1}{1797}\sqrt{204270}e^{13}, \frac{1}{599}\sqrt{40854}e^{34}, \frac{1}{1797}\sqrt{741562}e^{26}$	$(-\frac{71}{599}, \frac{94}{1797}, \frac{198}{599}, -\frac{27}{599}, -\frac{175}{599}, -\frac{119}{1797}, \frac{127}{599}, \frac{171}{599}, -\frac{25}{1797}) + \frac{1}{1797}\sqrt{917358}e^2 \otimes e_5 + \frac{4}{1797}\sqrt{64995}e^3 \otimes e_9$	{124789, 1279, 1456789, 15679, 23467, 23678, 3457, 3578}
941:3	$0, 0, 0, 0, 0, \frac{6}{2033}\sqrt{6549}e^{12}, \frac{15}{2033}\sqrt{2006}e^{13}, \frac{12}{2033}\sqrt{3953}e^{34}, \frac{84}{2033}\sqrt{59}e^{26}$	$(\frac{444}{2033}, -\frac{20}{107}, \frac{215}{2033}, -\frac{302}{2033}, \frac{234}{2033}, \frac{64}{2033}, \frac{659}{2033}, -\frac{87}{2033}, -\frac{316}{2033}) + \frac{3}{2033}\sqrt{101126}e^1 \otimes e_8 + \frac{6}{2033}\sqrt{27789}e^3 \otimes e_9$	{12579, 1279, 15679, 1679, 235678, 23678, 3578, 378}
941:3	$0, 0, 0, 0, 0, \frac{77}{1879}\sqrt{42}e^{12}, \frac{7}{1879}\sqrt{4290}e^{13}, \frac{7}{1879}\sqrt{9658}e^{34}, \frac{42}{1879}\sqrt{165}e^{26}$	$(\frac{462}{1879}, -\frac{315}{1879}, -\frac{448}{1879}, \frac{371}{1879}, \frac{553}{1879}, \frac{147}{1879}, \frac{14}{1879}, -\frac{77}{1879}, -\frac{168}{1879}) + \frac{28}{1879}\sqrt{858}e^4 \otimes e_9 + \frac{42}{1879}\sqrt{429}e^1 \otimes e_8 + \frac{7}{1879}\sqrt{8074}e^5 \otimes e_7$	{1279, 1679, 24568, 458}
941:3	$0, 0, 0, 0, 0, \frac{4}{1137}\sqrt{4830}e^{12}, \frac{7}{1137}\sqrt{2438}e^{13}, \frac{1}{1137}\sqrt{158102}e^{34}, \frac{4}{379}\sqrt{483}e^{26}$	$(\frac{80}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{80}{379}, \frac{108}{379}, \frac{121}{1137}, -\frac{82}{1137}, -\frac{82}{1137}, \frac{2}{1137}) + \frac{1}{1137}\sqrt{242466}e^4 \otimes e_7 + \frac{1}{379}\sqrt{31234}e^1 \otimes e_8 + \frac{2}{1137}\sqrt{34615}e^5 \otimes e_9$	{12349, 1279, 13469, 1679, 235678, 24568, 3578, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:3	$0, 0, 0, 0, 0, \frac{4}{1137}\sqrt{4830}e^{12}, \frac{7}{1137}\sqrt{2438}e^{13}, \frac{1}{1137}\sqrt{158102}e^{34}, \frac{4}{379}\sqrt{483}e^{26}$	$(\frac{80}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{80}{379}, \frac{108}{379}, \frac{121}{1137}, -\frac{82}{1137}, -\frac{82}{1137}, \frac{2}{1137})$ $-\frac{1}{1137}\sqrt{242466}e^4 \otimes e_7 + \frac{1}{379}\sqrt{31234}e^1 \otimes e_8 + \frac{2}{1137}\sqrt{34615}e^5 \otimes e_9$	{12349, 1279, 13469, 1679, 235678, 24568, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{6}{397}\sqrt{437}e^{12}, \frac{3}{397}\sqrt{4922}e^{13}, \frac{6}{397}\sqrt{437}e^{34}, \frac{3}{397}\sqrt{690}e^{26}$	$(\frac{76}{397}, -\frac{8}{397}, -\frac{100}{397}, \frac{183}{397}, -\frac{131}{397}, \frac{68}{397}, -\frac{24}{397}, \frac{83}{397}, \frac{60}{397})$ $+\frac{12}{397}\sqrt{506}e^1 \otimes e_5 + \frac{12}{397}\sqrt{506}e^4 \otimes e_7$	{12349, 1279, 13469, 1679, 235678, 24568, 3578, 458}
941:3	$0, 0, 0, 0, 0, \frac{1}{411}\sqrt{6162}e^{12}, \frac{1}{411}\sqrt{17538}e^{13}, \frac{1}{411}\sqrt{6162}e^{34}, \frac{1}{411}\sqrt{21646}e^{26}$	$(-\frac{35}{137}, \frac{52}{411}, \frac{26}{137}, \frac{2}{137}, \frac{15}{137}, -\frac{53}{411}, -\frac{9}{137}, \frac{28}{137}, -\frac{1}{411})$ $+\frac{1}{411}\sqrt{28914}e^2 \otimes e_7 + \frac{1}{411}\sqrt{28914}e^3 \otimes e_9$	{1456789, 146789, 15679, 1679, 3457, 347, 3578, 378}
941:3	$0, 0, 0, 0, 0, \frac{1}{155}\sqrt{3002}e^{12}, \frac{1}{155}\sqrt{6162}e^{13}, \frac{1}{155}\sqrt{3002}e^{34}, \frac{2}{155}\sqrt{237}e^{26}$	$(\frac{38}{155}, -\frac{7}{155}, -\frac{8}{31}, -\frac{1}{155}, \frac{77}{155}, \frac{1}{5}, -\frac{2}{155}, -\frac{41}{155}, \frac{24}{155})$ $+\frac{1}{155}\sqrt{9322}e^5 \otimes e_7 + \frac{2}{155}\sqrt{3081}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 23678, 24568, 378, 458}
941:3	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{590}e^{12}, \frac{4}{111}\sqrt{177}e^{13}, \frac{1}{37}\sqrt{590}e^{34}, \frac{1}{111}\sqrt{4366}e^{26}$	$(-\frac{1}{37}, \frac{29}{111}, -\frac{1}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{26}{111}, -\frac{2}{37}, -\frac{10}{37}, \frac{55}{111})$ $+\frac{1}{111}\sqrt{10974}e^2 \otimes e_8$	{1234579, 123479, 1259, 129, 1356789, 136789, 145689, 14689, 23456, 2346, 2567, 267, 358, 38, 4578, 478}
941:3	$0, 0, 0, 0, 0, \frac{2}{367}\sqrt{9515}e^{12}, \frac{1}{367}\sqrt{11418}e^{13}, \frac{2}{367}\sqrt{9515}e^{34}, \frac{3}{367}\sqrt{3806}e^{26}$	$(-\frac{26}{367}, \frac{88}{367}, \frac{44}{367}, -\frac{129}{367}, \frac{51}{367}, \frac{62}{367}, \frac{18}{367}, -\frac{85}{367}, \frac{150}{367})$ $+\frac{2}{367}\sqrt{21279}e^2 \otimes e_8 + \frac{2}{367}\sqrt{6055}e^3 \otimes e_4$	{1356789, 136789, 145689, 14689, 358, 38, 4578, 478}
941:3	$0, 0, 0, 0, 0, \frac{1}{383}\sqrt{1446}e^{12}, \frac{1}{383}\sqrt{18798}e^{13}, \frac{2}{383}\sqrt{8194}e^{34}, \frac{9}{383}\sqrt{482}e^{26}$	$(\frac{6}{383}, -\frac{36}{383}, -\frac{59}{383}, \frac{175}{383}, \frac{188}{383}, -\frac{30}{383}, -\frac{53}{383}, \frac{116}{383}, -\frac{66}{383})$ $+\frac{1}{383}\sqrt{93990}e^4 \otimes e_9 + \frac{2}{383}\sqrt{16870}e^5 \otimes e_7$	{123589, 1279, 135689, 1679, 23467, 24568, 347, 458}
941:3	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{2}{81}\sqrt{910}e^{34}, \frac{1}{81}\sqrt{910}e^{26}$	$(-\frac{4}{81}, \frac{4}{27}, -\frac{26}{81}, \frac{61}{81}, \frac{5}{27}, \frac{8}{81}, -\frac{10}{27}, \frac{35}{81}, \frac{20}{81})$ $+\frac{2}{81}\sqrt{3003}e^4 \otimes e_7$	{123456, 12346, 12567, 1267, 134, 1345, 157, 17, 235789, 23789, 24589, 2489, 356789, 36789, 45689, 4689}
941:4	$0, 0, 0, 0, 0, \frac{1}{367}\sqrt{1541}e^{12}, \frac{1}{367}\sqrt{9715}e^{34}, \frac{1}{367}\sqrt{9715}e^{35}, \frac{1}{367}\sqrt{11658}e^{16}$	$(\frac{13}{367}, -\frac{54}{367}, \frac{39}{367}, -\frac{38}{367}, \frac{68}{367}, -\frac{41}{367}, \frac{1}{367}, \frac{107}{367}, -\frac{28}{367})$ $+\frac{1}{367}\sqrt{10318}e^1 \otimes e_2 + \frac{1}{367}\sqrt{20033}e^3 \otimes e_9 + \frac{2}{367}\sqrt{3551}e^5 \otimes e_7$	{13456, 13678, 24679, 25689}
941:4	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{5455}e^{12}, \frac{2}{811}\sqrt{31639}e^{34}, \frac{2}{2433}\sqrt{45822}e^{35}, \frac{1}{2433}\sqrt{1769602}e^{16}$	$(\frac{320}{2433}, -\frac{257}{811}, -\frac{56}{811}, \frac{320}{811}, \frac{118}{811}, -\frac{451}{2433}, \frac{264}{811}, \frac{62}{811}, -\frac{131}{2433})$ $+\frac{1}{2433}\sqrt{2075082}e^1 \otimes e_2 + \frac{2}{2433}\sqrt{661146}e^4 \otimes e_9$	{134568, 1346, 14567, 14678, 2356789, 23679, 2569, 2689}
941:4	$0, 0, 0, 0, 0, \frac{2}{5993}\sqrt{134294}e^{12}, \frac{2}{5993}\sqrt{299330}e^{34}, \frac{4}{5993}\sqrt{325218}e^{35}, \frac{4}{5993}\sqrt{295285}e^{16}$	$(\frac{411}{5993}, -\frac{1207}{5993}, \frac{873}{5993}, -\frac{745}{5993}, \frac{1233}{5993}, -\frac{796}{5993}, \frac{128}{5993}, \frac{162}{461}, -\frac{385}{5993})$ $+\frac{18}{5993}\sqrt{15371}e^1 \otimes e_2 + \frac{2}{5993}\sqrt{1304917}e^3 \otimes e_4 + \frac{2}{5993}\sqrt{1895487}e^5 \otimes e_9$	{1356, 14568, 23689, 2469}
941:4	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{138}e^{12}, \frac{1}{62}\sqrt{2139}e^{34}, \frac{1}{62}\sqrt{2139}e^{35}, \frac{1}{31}\sqrt{138}e^{16}$	$(\frac{2}{31}, \frac{4}{31}, -\frac{19}{62}, \frac{3}{4}, -\frac{7}{124}, \frac{6}{31}, \frac{55}{124}, -\frac{45}{124}, \frac{8}{31})$ $+\frac{5}{31}\sqrt{69}e^4 \otimes e_8$	{123459, 123789, 12479, 12589, 13456, 13678, 1467, 1568, 234569, 236789, 24679, 25689, 345, 378, 47, 58}
941:4	$0, 0, 0, 0, 0, \frac{8}{51}\sqrt{17}e^{12}, \frac{8}{17}\sqrt{2}e^{34}, \frac{8}{51}\sqrt{3}e^{35}, \frac{8}{51}\sqrt{17}e^{16}$	$(\frac{1}{3}, -\frac{8}{51}, -\frac{2}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{3}{17}, -\frac{5}{17}, \frac{2}{17}, \frac{26}{51})$ $+\frac{8}{51}\sqrt{42}e^1 \otimes e_7$	{1234589, 12349, 1259, 1289, 134568, 1346, 156, 168, 2356789, 23679, 245679, 246789, 3578, 37, 457, 478}
941:4	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{57}e^{12}, \frac{1}{12}\sqrt{57}e^{34}, \frac{1}{12}\sqrt{57}e^{35}, \frac{1}{6}\sqrt{19}e^{16}$	$(-\frac{5}{24}, \frac{1}{8}, \frac{1}{2}, -\frac{1}{16}, -\frac{1}{16}, -\frac{1}{12}, \frac{7}{16}, \frac{7}{16}, -\frac{7}{24})$ $+\frac{1}{24}\sqrt{741}e^3 \otimes e_9$	{1245789, 12479, 129, 13456, 13468, 13678, 2456789, 24679, 269, 345, 348, 378}
941:4	$0, 0, 0, 0, 0, \frac{2}{939}\sqrt{43507}e^{12}, \frac{2}{939}\sqrt{22935}e^{34}, \frac{2}{313}\sqrt{1529}e^{35}, \frac{2}{313}\sqrt{3058}e^{16}$	$(\frac{83}{939}, \frac{149}{939}, -\frac{49}{313}, -\frac{16}{313}, \frac{6}{313}, \frac{232}{939}, -\frac{65}{313}, -\frac{43}{313}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{7367}e^1 \otimes e_7 + \frac{2}{939}\sqrt{47955}e^2 \otimes e_8$	{123459, 129, 13468, 1568, 235679, 24679, 378, 4578}
941:4	$0, 0, 0, 0, 0, \frac{1}{1913}\sqrt{249830}e^{12}, \frac{2}{1913}\sqrt{39010}e^{34}, \frac{1}{1913}\sqrt{281370}e^{35}, \frac{32}{1913}\sqrt{415}e^{16}$	$(\frac{90}{1913}, -\frac{106}{1913}, \frac{45}{1913}, -\frac{370}{1913}, \frac{489}{1913}, -\frac{16}{1913}, -\frac{325}{1913}, \frac{534}{1913}, \frac{74}{1913})$ $+\frac{1}{1913}\sqrt{312910}e^3 \otimes e_4 + \frac{1}{1913}\sqrt{525390}e^5 \otimes e_9 + \frac{2}{1913}\sqrt{146910}e^1 \otimes e_7$	{236789, 24679, 357, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:4	$0, 0, 0, 0, 0, \frac{16}{907} \sqrt{849}e^{12}, \frac{8}{907} \sqrt{2830}e^{34}, \frac{8}{907} \sqrt{1698}e^{35},$ $\frac{2}{907} \sqrt{11037}e^{16}$	$(-\frac{114}{907}, \frac{384}{907}, \frac{192}{907}, -\frac{374}{907}, \frac{21}{907}, \frac{270}{907}, -\frac{182}{907}, \frac{213}{907}, \frac{156}{907})$ $+\frac{2}{907} \sqrt{93673}e^3 \otimes e_4 + \frac{6}{907} \sqrt{14433}e^2 \otimes e_7$	{13567, 13678, 145678, 1467, 357, 378, 4578, 47}
941:4	$0, 0, 0, 0, 0, \frac{4}{4417} \sqrt{60357}e^{12}, \frac{2}{4417} \sqrt{293601}e^{34}, \frac{50}{4417} \sqrt{341}e^{35},$ $\frac{22}{4417} \sqrt{3131}e^{16}$	$(\frac{305}{4417}, -\frac{265}{4417}, -\frac{149}{631}, \frac{666}{4417}, \frac{1027}{4417}, \frac{40}{4417}, -\frac{377}{4417}, -\frac{16}{4417}, \frac{345}{4417})$ $+\frac{4}{4417} \sqrt{92411}e^4 \otimes e_8 + \frac{62}{4417} \sqrt{429}e^5 \otimes e_9 + \frac{82}{4417} \sqrt{341}e^1 \otimes e_7$	{13456, 1568, 236789, 24679}
941:4	$0, 0, 0, 0, 0, \frac{2}{1505} \sqrt{37714}e^{12}, \frac{4}{1505} \sqrt{865}e^{34}, \frac{6}{1505} \sqrt{9515}e^{35},$ $\frac{1}{1505} \sqrt{28718}e^{16}$	$(-\frac{27}{301}, \frac{436}{1505}, \frac{6}{301}, -\frac{316}{1505}, \frac{12}{301}, \frac{1}{5}, -\frac{286}{1505}, \frac{18}{301}, \frac{166}{1505})$ $+\frac{1}{1505} \sqrt{297906}e^5 \otimes e_7 + \frac{1}{1505} \sqrt{366414}e^2 \otimes e_8 + \frac{29}{1505} \sqrt{346}e^3 \otimes e_4$	{12479, 13678, 24679, 378}
941:4	$0, 0, 0, 0, 0, \frac{2}{183} \sqrt{1398}e^{12}, \frac{1}{61} \sqrt{466}e^{34}, \frac{1}{61} \sqrt{466}e^{35}, \frac{1}{183} \sqrt{28426}e^{16}$	$(\frac{110}{183}, -\frac{41}{61}, \frac{6}{61}, \frac{9}{61}, \frac{9}{61}, -\frac{13}{183}, \frac{15}{61}, \frac{15}{61}, \frac{97}{183})$ $+\frac{7}{183} \sqrt{1398}e^1 \otimes e_2$	{13456, 13468, 13678, 145678, 1467, 16, 234569, 234689, 236789, 2456789, 24679, 269}
941:4	$0, 0, 0, 0, 0, \frac{1}{2429} \sqrt{178670}e^{12}, \frac{1}{2429} \sqrt{1847658}e^{34}, \frac{4}{2429} \sqrt{27326}e^{35},$ $\frac{4}{2429} \sqrt{64111}e^{16}$	$(-\frac{318}{2429}, \frac{170}{2429}, \frac{549}{2429}, \frac{585}{2429}, -\frac{502}{2429}, -\frac{148}{2429}, \frac{162}{347}, \frac{47}{2429}, -\frac{466}{2429})$ $+\frac{1}{2429} \sqrt{2028430}e^3 \otimes e_5 + \frac{1}{2429} \sqrt{2541318}e^4 \otimes e_9$	{12379, 1259, 1346, 14567, 23679, 2569, 34, 457}
941:4	$0, 0, 0, 0, 0, \frac{8}{247} \sqrt{110}e^{12}, \frac{8}{247} \sqrt{638}e^{34}, \frac{16}{741} \sqrt{231}e^{35}, \frac{8}{741} \sqrt{5434}e^{16}$	$(-\frac{157}{741}, \frac{30}{247}, -\frac{28}{247}, \frac{160}{247}, \frac{59}{247}, -\frac{67}{741}, \frac{132}{247}, \frac{31}{247}, -\frac{224}{741})$ $+\frac{16}{741} \sqrt{3333}e^4 \otimes e_9$	{1235789, 12379, 1259, 1289, 134568, 1346, 14567, 14678, 2356789, 23679, 2569, 2689, 34, 3458, 457, 478}
941:4	$0, 0, 0, 0, 0, \frac{4}{239} \sqrt{570}e^{12}, \frac{4}{239} \sqrt{494}e^{34}, \frac{8}{239} \sqrt{798}e^{35}, \frac{4}{239} \sqrt{570}e^{16}$	$(\frac{15}{239}, \frac{30}{239}, \frac{168}{239}, -\frac{136}{239}, -\frac{39}{239}, \frac{45}{239}, \frac{32}{239}, \frac{129}{239}, \frac{60}{239})$ $+\frac{8}{239} \sqrt{1843}e^3 \otimes e_4$	{12359, 12389, 124589, 1249, 1356, 1368, 14568, 146, 23569, 23689, 245689, 2469, 35, 38, 4, 458}
941:4	$0, 0, 0, 0, 0, \frac{1}{1369} \sqrt{4110}e^{12}, \frac{1}{1369} \sqrt{3170}e^{34}, \frac{1}{1369} \sqrt{8070}e^{35},$ $\frac{38}{1369} \sqrt{5}e^{16}$	$(\frac{50}{1369}, -\frac{79}{1369}, \frac{31}{1369}, -\frac{32}{1369}, \frac{9}{1369}, -\frac{29}{1369}, -\frac{1}{1369}, \frac{40}{1369}, \frac{21}{1369})$ $+\frac{1}{1369} \sqrt{9330}e^3 \otimes e_9 + \frac{2}{1369} \sqrt{1430}e^5 \otimes e_7 + \frac{70}{1369} \sqrt{2}e^1 \otimes e_8$	{12479, 13456, 25689, 378}
941:4	$0, 0, 0, 0, 0, \frac{10}{233} \sqrt{110}e^{12}, \frac{5}{233} \sqrt{330}e^{34}, \frac{5}{233} \sqrt{330}e^{35}, \frac{10}{233} \sqrt{110}e^{16}$	$(-\frac{57}{233}, \frac{88}{233}, -\frac{35}{233}, \frac{99}{233}, -\frac{2}{233}, \frac{31}{233}, \frac{64}{233}, -\frac{37}{233}, -\frac{26}{233})$ $+\frac{5}{233} \sqrt{1010}e^2 \otimes e_8 + \frac{5}{233} \sqrt{1010}e^4 \otimes e_9$	{123579, 129, 13468, 145678, 235679, 269, 348, 4578}
941:4	$0, 0, 0, 0, 0, \frac{2}{803} \sqrt{6495}e^{12}, \frac{9}{803} \sqrt{2598}e^{34}, \frac{2}{803} \sqrt{16021}e^{35},$ $\frac{2}{803} \sqrt{6495}e^{16}$	$(\frac{30}{803}, \frac{60}{803}, \frac{111}{803}, \frac{222}{803}, -\frac{322}{803}, \frac{90}{803}, \frac{333}{803}, -\frac{211}{803}, \frac{120}{803})$ $+\frac{26}{803} \sqrt{433}e^3 \otimes e_5 + \frac{5}{803} \sqrt{12990}e^4 \otimes e_8$	{123789, 12589, 13678, 1568, 236789, 25689, 378, 58}
941:4	$0, 0, 0, 0, 0, \frac{12}{377} \sqrt{133}e^{12}, \frac{4}{377} \sqrt{1938}e^{34}, \frac{2}{377} \sqrt{1767}e^{35}, \frac{12}{377} \sqrt{133}e^{16}$	$(\frac{84}{377}, -\frac{41}{377}, \frac{63}{377}, -\frac{93}{377}, -\frac{51}{377}, \frac{43}{377}, -\frac{30}{377}, \frac{12}{377}, \frac{127}{377})$ $+\frac{10}{377} \sqrt{285}e^3 \otimes e_5 + \frac{38}{377} \sqrt{33}e^1 \otimes e_7$	{12349, 1259, 1346, 156, 23679, 245679, 37, 457}
941:4	$0, 0, 0, 0, 0, \frac{4}{259} \sqrt{506}e^{12}, \frac{4}{259} \sqrt{858}e^{34}, \frac{20}{259} \sqrt{11}e^{35}, \frac{4}{259} \sqrt{561}e^{16}$	$(-\frac{65}{259}, \frac{92}{259}, \frac{50}{259}, -\frac{46}{259}, \frac{1}{37}, \frac{27}{259}, \frac{4}{259}, \frac{57}{259}, -\frac{38}{259})$ $+\frac{44}{259} \sqrt{11}e^3 \otimes e_9 + \frac{4}{259} \sqrt{1166}e^2 \otimes e_7$	{12589, 129, 13567, 13678, 25689, 269, 357, 378}
941:4	$0, 0, 0, 0, 0, \frac{4}{199} \sqrt{137}e^{12}, \frac{1}{199} \sqrt{1370}e^{34}, \frac{1}{199} \sqrt{10686}e^{35},$ $\frac{1}{199} \sqrt{10138}e^{16}$	$(\frac{66}{199}, -\frac{71}{199}, \frac{78}{199}, -\frac{59}{199}, -\frac{15}{199}, -\frac{5}{199}, \frac{19}{199}, \frac{63}{199}, \frac{61}{199})$ $+\frac{1}{199} \sqrt{23838}e^1 \otimes e_2 + \frac{4}{199} \sqrt{1507}e^3 \otimes e_4$	{1356, 1368, 14568, 146, 23569, 23689, 245689, 2469}
941:4	$0, 0, 0, 0, 0, \frac{1}{1905} \sqrt{280798}e^{12}, \frac{8}{1905} \sqrt{1294}e^{34}, \frac{1}{635} \sqrt{65994}e^{35},$ $\frac{4}{1905} \sqrt{23939}e^{16}$	$(-\frac{326}{1905}, \frac{434}{1905}, \frac{217}{1905}, -\frac{86}{381}, \frac{143}{635}, \frac{36}{635}, -\frac{71}{635}, \frac{646}{1905}, -\frac{218}{1905})$ $+\frac{1}{1905} \sqrt{715582}e^3 \otimes e_4 + \frac{1}{1905} \sqrt{907094}e^5 \otimes e_9 + \frac{4}{1905} \sqrt{37526}e^2 \otimes e_7$	{13567, 145678, 357, 4578}
941:4	$0, 0, 0, 0, 0, \frac{2}{2249} \sqrt{218127}e^{12}, \frac{1}{2249} \sqrt{1371930}e^{34}, \frac{2}{2249} \sqrt{80934}e^{35},$ $\frac{4}{2249} \sqrt{10857}e^{16}$	$(-\frac{266}{2249}, \frac{68}{173}, -\frac{595}{2249}, \frac{492}{2249}, \frac{100}{2249}, \frac{618}{2249}, -\frac{103}{2249}, -\frac{495}{2249}, \frac{352}{2249})$ $+\frac{1}{2249} \sqrt{1822002}e^4 \otimes e_8 + \frac{6}{2249} \sqrt{58233}e^2 \otimes e_7$	{123459, 12589, 13678, 1467, 234569, 25689, 378, 47}
941:4	$0, 0, 0, 0, 0, \frac{44}{1961} \sqrt{65}e^{12}, \frac{13}{1961} \sqrt{66}e^{34}, \frac{24}{1961} \sqrt{286}e^{35},$ $\frac{1}{1961} \sqrt{161018}e^{16}$	$(\frac{45}{1961}, \frac{19}{1961}, -\frac{350}{1961}, \frac{226}{1961}, \frac{252}{1961}, \frac{64}{1961}, -\frac{124}{1961}, -\frac{98}{1961}, \frac{109}{1961})$ $+\frac{1}{1961} \sqrt{183326}e^5 \otimes e_9 + \frac{1}{1961} \sqrt{246246}e^1 \otimes e_8 + \frac{4}{1961} \sqrt{4862}e^2 \otimes e_7$	{1249, 134567, 23689, 578}
941:4	$0, 0, 0, 0, 0, \frac{8}{291} \sqrt{57}e^{12}, \frac{8}{97} \sqrt{10}e^{34}, \frac{8}{291} \sqrt{21}e^{35}, \frac{8}{291} \sqrt{97}e^{16}$	$(\frac{17}{291}, -\frac{8}{97}, \frac{14}{97}, -\frac{19}{97}, \frac{4}{97}, -\frac{7}{291}, -\frac{5}{97}, \frac{18}{97}, \frac{10}{291})$ $+\frac{16}{291} \sqrt{30}e^3 \otimes e_9 + \frac{8}{291} \sqrt{138}e^1 \otimes e_7$	{12589, 129, 13456, 13468, 2456789, 24679, 357, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:4	$0, 0, 0, 0, 0, \frac{26}{5465}\sqrt{1073}e^{12}, \frac{2}{5465}\sqrt{414178}e^{34}, \frac{2}{5465}\sqrt{1319790}e^{35},$ $\frac{4}{5465}\sqrt{169534}e^{16}$	$(\frac{219}{1093}, -\frac{1051}{5465}, \frac{579}{5465}, -\frac{1567}{5465}, \frac{1158}{5465}, \frac{44}{5465}, -\frac{988}{5465}, \frac{1737}{5465}, \frac{1139}{5465})$ $+ \frac{2}{5465}\sqrt{1490397}e^1 \otimes e_2 + \frac{4}{5465}\sqrt{452806}e^3 \otimes e_4 + \frac{6}{5465}\sqrt{224257}e^5 \otimes e_7$	{13678, 1467, 236789, 24679}
941:4	$0, 0, 0, 0, 0, \frac{2}{1221}\sqrt{16102}e^{12}, \frac{2}{407}\sqrt{1261}e^{34}, \frac{2}{1221}\sqrt{43262}e^{35},$ $\frac{2}{1221}\sqrt{16102}e^{16}$	$(-\frac{79}{407}, \frac{332}{1221}, \frac{86}{1221}, -\frac{36}{407}, \frac{52}{1221}, \frac{95}{1221}, -\frac{2}{111}, \frac{46}{407}, -\frac{142}{1221})$ $+ \frac{16}{1221}\sqrt{485}e^3 \otimes e_4 + \frac{2}{1221}\sqrt{39091}e^2 \otimes e_8 + \frac{2}{1221}\sqrt{39091}e^5 \otimes e_9$	{1249, 14568, 2469, 458}
941:4	$0, 0, 0, 0, 0, \frac{30}{887}\sqrt{47}e^{12}, \frac{2}{887}\sqrt{141}e^{34}, \frac{1}{887}\sqrt{83190}e^{35}, \frac{30}{887}\sqrt{47}e^{16}$	$(\frac{150}{887}, -\frac{68}{887}, \frac{3}{887}, -\frac{138}{887}, \frac{6}{887}, \frac{82}{887}, -\frac{135}{887}, \frac{9}{887}, \frac{232}{887})$ $+ \frac{2}{887}\sqrt{15369}e^3 \otimes e_4 + \frac{3}{887}\sqrt{6862}e^5 \otimes e_7 + \frac{4}{887}\sqrt{6486}e^1 \otimes e_8$	{12479, 1467, 236789, 378}
941:4	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{3058}e^{12}, \frac{2}{313}\sqrt{1529}e^{34}, \frac{2}{939}\sqrt{22935}e^{35},$ $\frac{2}{939}\sqrt{43507}e^{16}$	$(\frac{83}{939}, -\frac{27}{313}, -\frac{49}{313}, \frac{121}{313}, -\frac{16}{313}, \frac{2}{939}, \frac{72}{313}, -\frac{65}{313}, \frac{85}{939})$ $+ \frac{2}{313}\sqrt{7367}e^1 \otimes e_8 + \frac{2}{939}\sqrt{47955}e^4 \otimes e_9$	{123579, 129, 13456, 1467, 236789, 25689, 348, 4578}
941:4	$0, 0, 0, 0, 0, \frac{5}{1353}\sqrt{2314}e^{12}, \frac{3}{451}\sqrt{890}e^{34}, \frac{1}{1353}\sqrt{136526}e^{35},$ $\frac{2}{1353}\sqrt{18067}e^{16}$	$(-\frac{80}{451}, \frac{325}{1353}, \frac{23}{1353}, -\frac{7}{123}, \frac{124}{1353}, \frac{85}{1353}, -\frac{18}{451}, \frac{49}{451}, -\frac{155}{1353})$ $+ \frac{1}{1353}\sqrt{172126}e^3 \otimes e_9 + \frac{2}{1353}\sqrt{32218}e^2 \otimes e_8 + \frac{2}{1353}\sqrt{33998}e^5 \otimes e_7$	{12479, 13678, 24679, 378}
941:4	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{16962}e^{12}, \frac{11}{541}\sqrt{514}e^{34}, \frac{1}{541}\sqrt{16962}e^{35},$ $\frac{2}{541}\sqrt{16962}e^{16}$	$(\frac{132}{541}, -\frac{57}{541}, \frac{66}{541}, -\frac{191}{541}, \frac{42}{541}, \frac{75}{541}, -\frac{125}{541}, \frac{108}{541}, \frac{207}{541})$ $+ \frac{1}{541}\sqrt{164994}e^1 \otimes e_7 + \frac{1}{541}\sqrt{74530}e^3 \otimes e_4$	{235679, 236789, 2456789, 24679, 357, 378, 4578, 47}
941:4	$0, 0, 0, 0, 0, \frac{1}{356}\sqrt{2398}e^{12}, \frac{1}{356}\sqrt{15478}e^{34}, \frac{1}{356}\sqrt{15478}e^{35},$ $\frac{1}{356}\sqrt{7630}e^{16}$	$(\frac{59}{356}, -\frac{25}{178}, -\frac{109}{356}, \frac{175}{712}, \frac{175}{712}, \frac{9}{356}, -\frac{43}{712}, -\frac{43}{712}, \frac{17}{89})$ $+ \frac{1}{356}\sqrt{27359}e^4 \otimes e_8 + \frac{1}{356}\sqrt{27359}e^5 \otimes e_7 + \frac{3}{89}\sqrt{109}e^1 \otimes e_2$	{13456, 13678, 1467, 234569, 236789, 24679}
941:4	$0, 0, 0, 0, 0, \frac{1}{356}\sqrt{2398}e^{12}, \frac{1}{356}\sqrt{15478}e^{34}, \frac{1}{356}\sqrt{15478}e^{35},$ $\frac{1}{356}\sqrt{7630}e^{16}$	$(\frac{59}{356}, -\frac{25}{178}, -\frac{109}{356}, \frac{175}{712}, \frac{175}{712}, \frac{9}{356}, -\frac{43}{712}, -\frac{43}{712}, \frac{17}{89})$ $+ \frac{1}{356}\sqrt{27359}e^4 \otimes e_8 - \frac{1}{356}\sqrt{27359}e^5 \otimes e_7 + \frac{3}{89}\sqrt{109}e^1 \otimes e_2$	{13456, 13678, 1467, 234569, 236789, 24679}
941:4	$0, 0, 0, 0, 0, \frac{4}{2429}\sqrt{64111}e^{12}, \frac{1}{2429}\sqrt{1847658}e^{34}, \frac{4}{2429}\sqrt{27326}e^{35},$ $\frac{1}{2429}\sqrt{178670}e^{16}$	$(-\frac{318}{2429}, \frac{976}{2429}, \frac{549}{2429}, -\frac{624}{2429}, -\frac{502}{2429}, \frac{94}{347}, -\frac{75}{2429}, \frac{47}{2429}, \frac{340}{2429})$ $+ \frac{1}{2429}\sqrt{2028430}e^3 \otimes e_5 + \frac{1}{2429}\sqrt{2541318}e^2 \otimes e_7$	{12349, 1259, 1367, 14567, 23469, 2569, 37, 457}
941:4	$0, 0, 0, 0, 0, \frac{26}{5537}\sqrt{761}e^{12}, \frac{10}{5537}\sqrt{7610}e^{34}, \frac{2}{5537}\sqrt{978646}e^{35},$ $\frac{4}{5537}\sqrt{254174}e^{16}$	$(\frac{431}{5537}, -\frac{1091}{5537}, -\frac{21}{113}, \frac{1786}{5537}, \frac{1293}{5537}, -\frac{660}{5537}, \frac{757}{5537}, \frac{264}{5537}, -\frac{229}{5537})$ $+ \frac{2}{5537}\sqrt{1087469}e^1 \otimes e_2 + \frac{2}{5537}\sqrt{1163569}e^4 \otimes e_8 + \frac{4}{5537}\sqrt{394198}e^5 \otimes e_9$	{13456, 1568, 236789, 24679}
941:4	$0, 0, 0, 0, 0, \frac{8}{741}\sqrt{5434}e^{12}, \frac{8}{247}\sqrt{638}e^{34}, \frac{16}{741}\sqrt{231}e^{35}, \frac{8}{247}\sqrt{110}e^{16}$	$(-\frac{157}{741}, \frac{2}{3}, -\frac{28}{247}, -\frac{42}{247}, \frac{59}{247}, \frac{337}{741}, -\frac{70}{247}, \frac{31}{247}, \frac{60}{247})$ $+ \frac{16}{741}\sqrt{3333}e^2 \otimes e_7$	{1234589, 12349, 1259, 1289, 135678, 1367, 14567, 14678, 2345689, 23469, 2569, 2689, 3578, 37, 457, 478}
941:4	$0, 0, 0, 0, 0, \frac{4}{691}\sqrt{4123}e^{12}, \frac{1}{691}\sqrt{95046}e^{34}, \frac{2}{691}\sqrt{3689}e^{35},$ $\frac{4}{691}\sqrt{4123}e^{16}$	$(\frac{152}{691}, -\frac{66}{691}, -\frac{167}{691}, \frac{102}{691}, \frac{52}{691}, \frac{86}{691}, -\frac{65}{691}, -\frac{115}{691}, \frac{238}{691})$ $+ \frac{1}{691}\sqrt{101990}e^4 \otimes e_8 + \frac{2}{691}\sqrt{40145}e^1 \otimes e_7$	{123459, 12589, 13456, 1568, 236789, 24679, 378, 47}
941:4	$0, 0, 0, 0, 0, \frac{6}{539}\sqrt{437}e^{12}, \frac{24}{539}\sqrt{95}e^{34}, \frac{24}{539}\sqrt{95}e^{35}, \frac{24}{539}\sqrt{114}e^{16}$	$(\frac{169}{539}, -\frac{173}{539}, -\frac{13}{77}, \frac{240}{539}, -\frac{1}{49}, -\frac{4}{539}, \frac{149}{539}, -\frac{102}{539}, \frac{15}{49})$ $+ \frac{6}{539}\sqrt{4161}e^1 \otimes e_2 + \frac{6}{539}\sqrt{4769}e^4 \otimes e_8$	{13456, 13678, 1467, 1568, 234569, 236789, 24679, 25689}
941:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{22}e^{12}, \frac{1}{28}\sqrt{154}e^{34}, \frac{1}{28}\sqrt{154}e^{35}, \frac{1}{28}\sqrt{22}e^{16}$	$(\frac{1}{28}, \frac{1}{14}, -\frac{11}{28}, \frac{17}{56}, \frac{17}{56}, \frac{3}{28}, -\frac{5}{56}, -\frac{5}{56}, \frac{1}{7})$ $+ \frac{5}{28}\sqrt{11}e^4 \otimes e_8 - \frac{5}{28}\sqrt{11}e^5 \otimes e_7$	{123459, 123789, 12479, 13456, 13678, 1467, 234569, 236789, 24679, 345, 378, 47}
941:4	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{22}e^{12}, \frac{1}{28}\sqrt{154}e^{34}, \frac{1}{28}\sqrt{154}e^{35}, \frac{1}{28}\sqrt{22}e^{16}$	$(\frac{1}{28}, \frac{1}{14}, -\frac{11}{28}, \frac{17}{56}, \frac{17}{56}, \frac{3}{28}, -\frac{5}{56}, -\frac{5}{56}, \frac{1}{7})$ $+ \frac{5}{28}\sqrt{11}e^4 \otimes e_8 + \frac{5}{28}\sqrt{11}e^5 \otimes e_7$	{123459, 123789, 12479, 13456, 13678, 1467, 234569, 236789, 24679, 345, 378, 47}
941:4	$0, 0, 0, 0, 0, \frac{6}{6169}\sqrt{4990}e^{12}, \frac{6}{6169}\sqrt{2935}e^{34}, \frac{12}{6169}\sqrt{2815}e^{35},$ $\frac{42}{6169}\sqrt{170}e^{16}$	$(\frac{330}{6169}, -\frac{507}{6169}, -\frac{3}{6169}, -\frac{3}{199}, \frac{243}{6169}, -\frac{177}{6169}, -\frac{96}{6169}, \frac{240}{6169}, \frac{153}{6169})$ $+ \frac{12}{6169}\sqrt{2505}e^5 \otimes e_9 + \frac{6}{6169}\sqrt{12515}e^1 \otimes e_8 + \frac{6}{6169}\sqrt{5855}e^3 \otimes e_4$	{1249, 1356, 23689, 458}
941:4	$0, 0, 0, 0, 0, \frac{1}{75}\sqrt{174}e^{12}, \frac{2}{75}\sqrt{174}e^{34}, \frac{2}{75}\sqrt{174}e^{35}, \frac{1}{15}\sqrt{58}e^{16}$	$(\frac{8}{75}, -\frac{7}{25}, \frac{8}{25}, -\frac{1}{25}, -\frac{1}{25}, -\frac{13}{75}, \frac{7}{25}, \frac{7}{25}, -\frac{1}{15})$ $+ \frac{1}{25}\sqrt{174}e^1 \otimes e_2 + \frac{1}{75}\sqrt{2262}e^3 \otimes e_9$	{13456, 13468, 13678, 2456789, 24679, 269}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:4	$0, 0, 0, 0, 0, \frac{3}{79}\sqrt{15}e^{12}, \frac{3}{158}\sqrt{395}e^{34}, \frac{3}{158}\sqrt{395}e^{35}, \frac{12}{79}\sqrt{5}e^{16}$	$(-\frac{10}{79}, \frac{6}{79}, \frac{17}{158}, \frac{81}{316}, -\frac{43}{316}, -\frac{4}{79}, \frac{115}{316}, -\frac{9}{316}, -\frac{14}{79})$ $+\frac{3}{79}\sqrt{155}e^4 \otimes e_8 + \frac{3}{79}\sqrt{195}e^3 \otimes e_9$	{12479, 12589, 13456, 13678, 24679, 25689, 345, 378}
941:4	$0, 0, 0, 0, 0, \frac{28}{839}\sqrt{37}e^{12}, \frac{4}{2517}\sqrt{29526}e^{34}, \frac{1}{2517}\sqrt{113442}e^{35}, \frac{1}{2517}\sqrt{434602}e^{16}$	$(\frac{169}{2517}, -\frac{83}{839}, -\frac{146}{839}, \frac{116}{839}, \frac{158}{839}, -\frac{80}{2517}, -\frac{30}{839}, \frac{12}{839}, \frac{89}{2517})$ $+\frac{1}{2517}\sqrt{520590}e^4 \otimes e_9 + \frac{1}{2517}\sqrt{651126}e^1 \otimes e_7$	{1259, 1289, 134568, 1346, 2356789, 23679, 457, 478}
941:4	$0, 0, 0, 0, 0, \frac{1}{110}\sqrt{42}e^{12}, \frac{1}{110}\sqrt{385}e^{34}, \frac{1}{110}\sqrt{385}e^{35}, \frac{2}{55}\sqrt{14}e^{16}$	$(-\frac{1}{11}, \frac{3}{55}, -\frac{7}{110}, \frac{5}{44}, \frac{5}{44}, -\frac{2}{55}, \frac{1}{20}, \frac{1}{20}, -\frac{7}{55})$ $+\frac{1}{110}\sqrt{434}e^4 \otimes e_8 + \frac{1}{110}\sqrt{434}e^5 \otimes e_7 + \frac{1}{110}\sqrt{546}e^3 \otimes e_9$	{12479, 13456, 13678, 24679, 345, 378}
941:4	$0, 0, 0, 0, 0, \frac{1}{110}\sqrt{42}e^{12}, \frac{1}{110}\sqrt{385}e^{34}, \frac{1}{110}\sqrt{385}e^{35}, \frac{2}{55}\sqrt{14}e^{16}$	$(-\frac{1}{11}, \frac{3}{55}, -\frac{7}{110}, \frac{5}{44}, \frac{5}{44}, -\frac{2}{55}, \frac{1}{20}, \frac{1}{20}, -\frac{7}{55})$ $+\frac{1}{110}\sqrt{434}e^4 \otimes e_8 - \frac{1}{110}\sqrt{434}e^5 \otimes e_7 + \frac{1}{110}\sqrt{546}e^3 \otimes e_9$	{12479, 13456, 13678, 24679, 345, 378}
941:4	$0, 0, 0, 0, 0, \frac{4}{827}\sqrt{2587}e^{12}, \frac{4}{827}\sqrt{910}e^{34}, \frac{4}{827}\sqrt{2041}e^{35}, \frac{4}{827}\sqrt{2587}e^{16}$	$(-\frac{31}{827}, \frac{112}{827}, -\frac{146}{827}, \frac{11}{827}, \frac{154}{827}, \frac{81}{827}, -\frac{135}{827}, \frac{8}{827}, \frac{50}{827})$ $+\frac{4}{827}\sqrt{2990}e^2 \otimes e_8 + \frac{4}{827}\sqrt{2990}e^5 \otimes e_9 + \frac{52}{827}\sqrt{22}e^1 \otimes e_7$	{129, 1568, 24679, 4578}
941:4	$0, 0, 0, 0, 0, \frac{4}{2249}\sqrt{10857}e^{12}, \frac{2}{2249}\sqrt{80934}e^{34}, \frac{1}{2249}\sqrt{1371930}e^{35}, \frac{2}{2249}\sqrt{218127}e^{16}$	$(-\frac{266}{2249}, \frac{176}{2249}, -\frac{595}{2249}, \frac{1023}{2249}, \frac{631}{2249}, -\frac{90}{2249}, \frac{428}{2249}, \frac{36}{2249}, -\frac{356}{2249})$ $+\frac{1}{2249}\sqrt{1822002}e^4 \otimes e_8 + \frac{6}{2249}\sqrt{58233}e^5 \otimes e_9$	{123789, 12479, 13456, 1568, 236789, 24679, 345, 58}
941:4	$0, 0, 0, 0, 0, \frac{6}{227}\sqrt{182}e^{12}, \frac{2}{227}\sqrt{3198}e^{34}, \frac{2}{227}\sqrt{741}e^{35}, \frac{6}{227}\sqrt{182}e^{16}$	$(-\frac{59}{227}, \frac{84}{227}, -\frac{38}{227}, \frac{44}{227}, \frac{44}{227}, \frac{25}{227}, \frac{6}{227}, \frac{6}{227}, -\frac{34}{227})$ $+\frac{2}{227}\sqrt{3939}e^2 \otimes e_7 + \frac{2}{227}\sqrt{3939}e^4 \otimes e_9$	{1259, 1289, 14567, 14678, 2569, 2689, 457, 478}
941:5	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{273}e^{12}, \frac{1}{31}\sqrt{195}e^{13}, \frac{1}{31}\sqrt{195}e^{14}, \frac{6}{31}\sqrt{26}e^{16}$	$(-\frac{5}{31}, \frac{2}{31}, \frac{8}{31}, \frac{8}{31}, 1, -\frac{3}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{8}{31})$ $+\frac{3}{31}\sqrt{221}e^5 \otimes e_9$	{1234789, 12379, 129, 1345678, 13567, 156, 23469, 23689, 26789, 345, 358, 578}
941:5	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1030}e^{12}, \frac{2}{161}\sqrt{6386}e^{13}, \frac{2}{161}\sqrt{515}e^{14}, \frac{2}{161}\sqrt{1030}e^{16}$	$(-\frac{10}{161}, \frac{37}{161}, -\frac{5}{23}, \frac{32}{161}, 1, \frac{27}{161}, -\frac{45}{161}, \frac{22}{161}, \frac{17}{161})$ $+\frac{2}{161}\sqrt{13802}e^5 \otimes e_7$	{12345689, 123569, 1246789, 12679, 13458, 135, 1478, 17, 23479, 23789, 2459, 2589, 3467, 3678, 456, 568}
941:5	$0, 0, 0, 0, 0, \frac{1}{401}\sqrt{8323}e^{12}, \frac{14}{401}\sqrt{290}e^{13}, \frac{1}{401}\sqrt{17255}e^{14}, \frac{2}{401}\sqrt{4466}e^{16}$	$(-\frac{85}{401}, \frac{113}{802}, \frac{179}{802}, \frac{157}{802}, \frac{415}{802}, -\frac{57}{802}, \frac{9}{802}, -\frac{13}{802}, -\frac{227}{802})$ $+\frac{3}{401}\sqrt{8729}e^3 \otimes e_9 + \frac{49}{401}\sqrt{29}e^5 \otimes e_7$	{1234568, 12356, 14789, 179, 2347, 2378, 4569, 5689}
941:5	$0, 0, 0, 0, 0, \frac{7}{1315}\sqrt{4026}e^{12}, \frac{1}{1315}\sqrt{189222}e^{13}, \frac{2}{1315}\sqrt{142923}e^{14}, \frac{1}{1315}\sqrt{57706}e^{16}$	$(-\frac{337}{1315}, \frac{273}{1315}, \frac{604}{1315}, \frac{54}{263}, \frac{126}{1315}, -\frac{64}{1315}, \frac{267}{1315}, -\frac{67}{1315}, -\frac{401}{1315})$ $+\frac{1}{1315}\sqrt{830698}e^3 \otimes e_8 + \frac{2}{1315}\sqrt{191235}e^4 \otimes e_9$	{123456, 12346, 15789, 1789, 2458, 248, 35679, 3679}
941:5	$0, 0, 0, 0, 0, \frac{6}{31}\sqrt{26}e^{12}, \frac{1}{31}\sqrt{195}e^{13}, \frac{1}{31}\sqrt{195}e^{14}, \frac{1}{31}\sqrt{273}e^{16}$	$(-\frac{5}{31}, \frac{19}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{20}{31}, \frac{14}{31}, \frac{3}{31}, \frac{3}{31}, \frac{9}{31})$ $+\frac{3}{31}\sqrt{221}e^2 \otimes e_5$	{1234789, 12379, 129, 1345678, 13567, 156, 23469, 23689, 26789, 345, 358, 578}
941:5	$0, 0, 0, 0, 0, \frac{10}{1187}\sqrt{839}e^{12}, \frac{1}{1187}\sqrt{199682}e^{13}, \frac{2}{1187}\sqrt{69637}e^{14}, \frac{1}{1187}\sqrt{236598}e^{16}$	$(-\frac{241}{1187}, \frac{185}{1187}, \frac{495}{1187}, \frac{542}{1187}, -\frac{344}{1187}, -\frac{56}{1187}, \frac{254}{1187}, \frac{301}{1187}, -\frac{297}{1187})$ $+\frac{1}{1187}\sqrt{803762}e^3 \otimes e_5 + \frac{1}{1187}\sqrt{961494}e^4 \otimes e_9$	{12346, 124567, 1389, 15789, 23478, 2458, 3679, 569}
941:5	$0, 0, 0, 0, 0, \frac{2}{391}\sqrt{10582}e^{12}, \frac{1}{391}\sqrt{22451}e^{13}, \frac{1}{391}\sqrt{7293}e^{14}, \frac{1}{391}\sqrt{28457}e^{16}$	$(\frac{3}{23}, \frac{35}{391}, -\frac{4}{17}, \frac{12}{391}, -\frac{108}{391}, \frac{86}{391}, -\frac{41}{391}, \frac{63}{391}, \frac{137}{391})$ $+\frac{1}{391}\sqrt{41613}e^2 \otimes e_5 + \frac{52}{391}\sqrt{22}e^1 \otimes e_3$	{1249, 1289, 1456, 1568, 234689, 2369, 3458, 35}
941:5	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{39342}e^{12}, \frac{1}{521}\sqrt{94326}e^{13}, \frac{6}{521}\sqrt{1185}e^{14}, \frac{1}{521}\sqrt{39342}e^{16}$	$(-\frac{83}{521}, \frac{123}{521}, \frac{59}{521}, \frac{213}{521}, -\frac{178}{521}, \frac{40}{521}, -\frac{24}{521}, \frac{130}{521}, -\frac{43}{521})$ $+\frac{1}{521}\sqrt{124662}e^4 \otimes e_7 + \frac{2}{521}\sqrt{25833}e^3 \otimes e_5$	{123469, 1256789, 134, 1578, 2379, 24589, 367, 4568}
941:5	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{6501}e^{12}, \frac{1}{313}\sqrt{4334}e^{13}, \frac{1}{313}\sqrt{13002}e^{14}, \frac{2}{313}\sqrt{6501}e^{16}$	$(\frac{66}{313}, -\frac{27}{313}, -\frac{131}{313}, \frac{6}{313}, \frac{132}{313}, \frac{39}{313}, -\frac{65}{313}, \frac{72}{313}, \frac{105}{313})$ $+\frac{1}{313}\sqrt{36642}e^5 \otimes e_7 + \frac{1}{313}\sqrt{71314}e^1 \otimes e_3$	{12459, 12589, 1456, 1568, 2345689, 23569, 3458, 35}
941:5	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{1005}e^{12}, \frac{2}{169}\sqrt{2747}e^{13}, \frac{2}{169}\sqrt{2010}e^{14}, \frac{4}{169}\sqrt{1005}e^{16}$	$(\frac{60}{169}, -\frac{33}{169}, -\frac{74}{169}, -\frac{3}{169}, \frac{27}{169}, \frac{27}{169}, -\frac{14}{169}, \frac{57}{169}, \frac{87}{169})$ $+\frac{2}{169}\sqrt{9514}e^1 \otimes e_3$	{12459, 1249, 12589, 1289, 1456, 146, 1568, 168, 2345689, 234689, 23569, 2369, 3, 3458, 348, 35}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:5	$0, 0, 0, 0, 0, \frac{12}{523}\sqrt{141}e^{12}, \frac{12}{523}\sqrt{357}e^{13}, \frac{72}{523}\sqrt{2}e^{14}, \frac{12}{523}\sqrt{141}e^{16}$	$(-\frac{144}{523}, \frac{189}{523}, \frac{117}{523}, \frac{69}{523}, \frac{141}{523}, \frac{45}{523}, -\frac{27}{523}, -\frac{75}{523}, -\frac{99}{523})$ $+\frac{12}{523}\sqrt{573}e^2 \otimes e_7 + \frac{12}{523}\sqrt{573}e^3 \otimes e_9 + \frac{144}{523}\sqrt{2}e^5 \otimes e_8$	{24569, 2689, 3457, 378}
941:5	$0, 0, 0, 0, 0, \frac{2}{1601}\sqrt{59637}e^{12}, \frac{5}{1601}\sqrt{15054}e^{13}, \frac{4}{1601}\sqrt{579}e^{14}, \frac{2}{1601}\sqrt{123906}e^{16}$	$(-\frac{16}{1601}, -\frac{36}{1601}, \frac{511}{1601}, \frac{178}{1601}, -\frac{595}{1601}, -\frac{52}{1601}, \frac{495}{1601}, \frac{162}{1601}, -\frac{68}{1601})$ $+\frac{3}{1601}\sqrt{98430}e^1 \otimes e_5 + \frac{6}{1601}\sqrt{21423}e^3 \otimes e_9$	{124789, 1279, 13468, 136, 24569, 25689, 3457, 3578}
941:5	$0, 0, 0, 0, 0, \frac{6}{127}\sqrt{86}e^{12}, \frac{1}{127}\sqrt{7482}e^{13}, \frac{1}{127}\sqrt{7482}e^{14}, \frac{1}{127}\sqrt{5934}e^{16}$	$(\frac{58}{127}, -\frac{71}{127}, -\frac{7}{127}, -\frac{7}{127}, \frac{22}{127}, -\frac{13}{127}, \frac{51}{127}, \frac{51}{127}, \frac{45}{127})$ $+\frac{3}{127}\sqrt{3010}e^1 \otimes e_2$	{13459, 1349, 13589, 1389, 15789, 1789, 2, 234578, 23478, 2357, 237, 25}
941:5	$0, 0, 0, 0, 0, \frac{2}{4065}\sqrt{154261}e^{12}, \frac{4}{4065}\sqrt{138529}e^{13}, \frac{2}{4065}\sqrt{25346}e^{14}, \frac{4}{4065}\sqrt{60743}e^{16}$	$(\frac{116}{4065}, -\frac{758}{4065}, \frac{116}{1355}, \frac{209}{4065}, \frac{446}{1355}, -\frac{214}{1355}, \frac{464}{4065}, \frac{65}{813}, -\frac{526}{4065})$ $+\frac{2}{1355}\sqrt{52003}e^5 \otimes e_7 + \frac{2}{4065}\sqrt{602186}e^1 \otimes e_2 + \frac{38}{4065}\sqrt{1633}e^3 \otimes e_9$	{1479, 1789, 23478, 237}
941:5	$0, 0, 0, 0, 0, \frac{4}{499}\sqrt{273}e^{12}, \frac{28}{499}\sqrt{195}e^{13}, \frac{2}{499}\sqrt{18291}e^{14}, \frac{2}{499}\sqrt{38766}e^{16}$	$(-\frac{134}{499}, \frac{81}{499}, \frac{359}{499}, \frac{152}{499}, \frac{85}{499}, -\frac{53}{499}, \frac{225}{499}, \frac{18}{499}, -\frac{187}{499})$ $+\frac{6}{499}\sqrt{12558}e^3 \otimes e_9$	{1245789, 124789, 12579, 1279, 134568, 13468, 1356, 136, 24569, 2469, 25689, 2689, 3457, 347, 3578, 378}
941:5	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{255}e^{12}, \frac{3}{61}\sqrt{51}e^{13}, \frac{3}{61}\sqrt{51}e^{14}, \frac{2}{61}\sqrt{34}e^{16}$	$(\frac{5}{61}, -\frac{12}{61}, \frac{13}{61}, -\frac{9}{61}, \frac{15}{61}, -\frac{7}{61}, \frac{18}{61}, -\frac{4}{61}, -\frac{2}{61})$ $+\frac{1}{61}\sqrt{357}e^5 \otimes e_9 + \frac{2}{61}\sqrt{187}e^3 \otimes e_8 + \frac{4}{61}\sqrt{51}e^1 \otimes e_2$	{1349, 1789, 2357, 2458}
941:5	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{2}e^{12}, \frac{10}{47}\sqrt{2}e^{13}, \frac{10}{47}\sqrt{2}e^{14}, \frac{5}{47}\sqrt{26}e^{16}$	$(\frac{8}{47}, -\frac{17}{47}, \frac{1}{47}, \frac{1}{47}, \frac{24}{47}, -\frac{9}{47}, \frac{9}{47}, \frac{9}{47}, -\frac{17}{47})$ $+\frac{5}{47}\sqrt{38}e^5 \otimes e_9 + \frac{5}{47}\sqrt{46}e^1 \otimes e_2$	{1349, 1389, 1789, 234578, 2357, 25}
941:5	$0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{236598}e^{12}, \frac{1}{1187}\sqrt{199682}e^{13}, \frac{2}{1187}\sqrt{69637}e^{14}, \frac{10}{1187}\sqrt{839}e^{16}$	$(-\frac{241}{1187}, \frac{567}{1187}, \frac{495}{1187}, -\frac{31}{1187}, -\frac{344}{1187}, \frac{326}{1187}, \frac{254}{1187}, -\frac{272}{1187}, \frac{85}{1187})$ $+\frac{1}{1187}\sqrt{803762}e^3 \otimes e_5 + \frac{1}{1187}\sqrt{961494}e^2 \otimes e_8$	{1234, 12457, 13689, 156789, 2367, 256, 34789, 4589}
941:5	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{574}e^{12}, \frac{3}{40}\sqrt{123}e^{13}, \frac{3}{40}\sqrt{123}e^{14}, \frac{1}{40}\sqrt{574}e^{16}$	$(-\frac{7}{40}, \frac{13}{40}, \frac{53}{80}, -\frac{3}{16}, \frac{3}{20}, \frac{3}{20}, \frac{39}{80}, -\frac{29}{80}, -\frac{1}{40})$ $+\frac{1}{20}\sqrt{697}e^3 \otimes e_8$	{1234569, 123469, 1256789, 126789, 134, 1345, 1578, 178, 23579, 2379, 24589, 2489, 3567, 367, 4568, 468}
941:5	$0, 0, 0, 0, 0, \frac{2}{499}\sqrt{38766}e^{12}, \frac{28}{499}\sqrt{195}e^{13}, \frac{2}{499}\sqrt{18291}e^{14}, \frac{4}{499}\sqrt{273}e^{16}$	$(-\frac{134}{499}, \frac{357}{499}, -\frac{55}{499}, \frac{152}{499}, \frac{85}{499}, \frac{223}{499}, -\frac{189}{499}, \frac{18}{499}, \frac{89}{499})$ $+\frac{6}{499}\sqrt{12558}e^2 \otimes e_7$	{1234589, 123489, 12359, 1239, 145678, 14678, 1567, 167, 24569, 2469, 25689, 2689, 3457, 347, 3578, 378}
941:5	$0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{14}{401}\sqrt{290}e^{13}, \frac{1}{401}\sqrt{17255}e^{14}, \frac{1}{401}\sqrt{8323}e^{16}$	$(-\frac{85}{401}, \frac{371}{802}, \frac{135}{802}, \frac{157}{802}, -\frac{271}{802}, \frac{201}{802}, -\frac{35}{802}, -\frac{13}{802}, \frac{31}{802})$ $+\frac{3}{401}\sqrt{8729}e^2 \otimes e_7 + \frac{49}{401}\sqrt{29}e^3 \otimes e_5$	{123, 12348, 1456789, 15679, 2456, 2568, 3479, 3789}
941:5	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{258}e^{12}, \frac{1}{67}\sqrt{645}e^{13}, \frac{1}{67}\sqrt{731}e^{14}, \frac{3}{67}\sqrt{129}e^{16}$	$(-\frac{17}{67}, \frac{23}{67}, \frac{32}{67}, \frac{16}{67}, -\frac{20}{67}, \frac{6}{67}, \frac{15}{67}, -\frac{1}{67}, -\frac{11}{67})$ $+\frac{1}{67}\sqrt{2365}e^2 \otimes e_5 + \frac{8}{67}\sqrt{43}e^3 \otimes e_9$	{124789, 1279, 134568, 1356, 2469, 2689, 3457, 3578}
941:5	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{37465}e^{12}, \frac{2}{1641}\sqrt{138430}e^{13}, \frac{2}{1641}\sqrt{23495}e^{14}, \frac{1}{1641}\sqrt{478790}e^{16}$	$(\frac{148}{1641}, -\frac{487}{1641}, \frac{148}{547}, \frac{82}{1641}, \frac{52}{547}, -\frac{113}{547}, \frac{592}{1641}, \frac{230}{1641}, -\frac{191}{1641})$ $+\frac{1}{1641}\sqrt{966470}e^1 \otimes e_2 + \frac{2}{1641}\sqrt{229870}e^3 \otimes e_9$	{14579, 1479, 15789, 1789, 234578, 23478, 2357, 237}
941:5	$0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{236598}e^{12}, \frac{2}{1187}\sqrt{69637}e^{13}, \frac{1}{1187}\sqrt{199682}e^{14}, \frac{10}{1187}\sqrt{839}e^{16}$	$(-\frac{241}{1187}, \frac{567}{1187}, -\frac{31}{1187}, \frac{16}{1187}, \frac{614}{1187}, \frac{326}{1187}, -\frac{272}{1187}, -\frac{225}{1187}, \frac{85}{1187})$ $+\frac{1}{1187}\sqrt{803762}e^3 \otimes e_8 + \frac{1}{1187}\sqrt{961494}e^2 \otimes e_7$	{12345, 1238, 145679, 16789, 2468, 256, 34789, 3579}
941:5	$0, 0, 0, 0, 0, \frac{28}{181}\sqrt{6}e^{12}, \frac{7}{181}\sqrt{30}e^{13}, \frac{14}{181}e^{14}, \frac{7}{181}\sqrt{102}e^{16}$	$(\frac{4}{181}, \frac{8}{181}, -\frac{45}{181}, \frac{13}{181}, \frac{65}{181}, \frac{12}{181}, -\frac{41}{181}, \frac{17}{181}, \frac{16}{181})$ $+\frac{35}{181}\sqrt{6}e^1 \otimes e_3 + \frac{70}{181}e^5 \otimes e_9 + \frac{7}{181}\sqrt{82}e^2 \otimes e_7$	{1249, 1289, 234689, 2369}
941:5	$0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{110751}e^{12}, \frac{1}{1219}\sqrt{38570}e^{13}, \frac{4}{1219}\sqrt{3306}e^{14}, \frac{1}{1219}\sqrt{274398}e^{16}$	$(\frac{96}{1219}, \frac{192}{1219}, -\frac{455}{1219}, \frac{87}{1219}, \frac{135}{1219}, \frac{288}{1219}, -\frac{359}{1219}, \frac{183}{1219}, \frac{384}{1219})$ $+\frac{25}{1219}\sqrt{1102}e^1 \otimes e_3 + \frac{3}{1219}\sqrt{56202}e^2 \otimes e_7$	{12459, 1249, 12589, 1289, 2345689, 234689, 23569, 2369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:5	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{2}e^{12}, \frac{1}{9}\sqrt{13}e^{13}, \frac{1}{9}\sqrt{13}e^{14}, \frac{2}{9}\sqrt{2}e^{16}$	$(-\frac{2}{9}, \frac{5}{18}, \frac{1}{6}, \frac{1}{6}, \frac{1}{18}, \frac{1}{18}, -\frac{1}{18}, -\frac{1}{18}, -\frac{1}{6})$ $+\frac{1}{9}\sqrt{17}e^3 \otimes e_8 + \frac{1}{9}\sqrt{17}e^4 \otimes e_7$	{1234569, 123469, 1256789, 126789, 134, 1345, 1578, 178, 23579, 2379, 3567, 367}
941:5	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{2}e^{12}, \frac{1}{9}\sqrt{13}e^{13}, \frac{1}{9}\sqrt{13}e^{14}, \frac{2}{9}\sqrt{2}e^{16}$	$(-\frac{2}{9}, \frac{5}{18}, \frac{1}{6}, \frac{1}{6}, \frac{1}{18}, \frac{1}{18}, -\frac{1}{18}, -\frac{1}{18}, -\frac{1}{6})$ $+\frac{1}{9}\sqrt{17}e^3 \otimes e_8 - \frac{1}{9}\sqrt{17}e^4 \otimes e_7$	{1234569, 123469, 1256789, 126789, 134, 1345, 1578, 178, 23579, 2379, 3567, 367}
941:5	$0, 0, 0, 0, 0, \frac{10}{1187}\sqrt{839}e^{12}, \frac{2}{1187}\sqrt{69637}e^{13}, \frac{1}{1187}\sqrt{199682}e^{14}, \frac{1}{1187}\sqrt{236598}e^{16}$	$(-\frac{241}{1187}, \frac{185}{1187}, \frac{542}{1187}, \frac{16}{1187}, \frac{614}{1187}, -\frac{56}{1187}, \frac{301}{1187}, -\frac{225}{1187}, -\frac{297}{1187})$ $+\frac{1}{1187}\sqrt{803762}e^5 \otimes e_8 + \frac{1}{1187}\sqrt{961494}e^3 \otimes e_9$	{123456, 12368, 14579, 1789, 23478, 2357, 4689, 569}
941:5	$0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1155}e^{12}, \frac{1}{157}\sqrt{2310}e^{13}, \frac{1}{157}\sqrt{2310}e^{14}, \frac{2}{157}\sqrt{1155}e^{16}$	$(-\frac{47}{157}, \frac{66}{157}, \frac{77}{157}, \frac{8}{157}, \frac{19}{157}, \frac{19}{157}, \frac{30}{157}, -\frac{39}{157}, -\frac{28}{157})$ $+\frac{3}{157}\sqrt{1610}e^2 \otimes e_8 + \frac{3}{157}\sqrt{1610}e^3 \otimes e_9$	{124579, 12479, 13568, 1368, 2569, 269, 34578, 3478}
941:5	$0, 0, 0, 0, 0, \frac{6}{4001}\sqrt{24955}e^{12}, \frac{2}{4001}\sqrt{462990}e^{13}, \frac{6}{4001}\sqrt{31970}e^{14}, \frac{8}{4001}\sqrt{4485}e^{16}$	$(\frac{235}{4001}, -\frac{455}{4001}, \frac{314}{4001}, -\frac{611}{4001}, \frac{1239}{4001}, -\frac{220}{4001}, \frac{549}{4001}, -\frac{376}{4001}, \frac{15}{4001})$ $+\frac{2}{4001}\sqrt{494385}e^3 \otimes e_8 + \frac{4}{4001}\sqrt{87630}e^5 \otimes e_7 + \frac{6}{4001}\sqrt{50945}e^1 \otimes e_2$	{1345, 178, 2379, 24589}
941:5	$0, 0, 0, 0, 0, \frac{4}{1541}\sqrt{16359}e^{12}, \frac{1}{1541}\sqrt{755630}e^{13}, \frac{13}{1541}\sqrt{1558}e^{14}, \frac{1}{1541}\sqrt{132430}e^{16}$	$(\frac{338}{1541}, -\frac{441}{1541}, \frac{297}{1541}, -\frac{19}{1541}, \frac{482}{1541}, -\frac{103}{1541}, \frac{635}{1541}, \frac{319}{1541}, \frac{235}{1541})$ $+\frac{1}{1541}\sqrt{1182522}e^1 \otimes e_2 + \frac{4}{1541}\sqrt{61541}e^3 \otimes e_5$	{1349, 1389, 14579, 15789, 23478, 237, 2458, 25}
941:5	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{129}e^{12}, \frac{1}{67}\sqrt{645}e^{13}, \frac{1}{67}\sqrt{731}e^{14}, \frac{2}{67}\sqrt{258}e^{16}$	$(-\frac{17}{67}, \frac{26}{67}, 0, \frac{16}{67}, \frac{35}{67}, \frac{9}{67}, -\frac{17}{67}, -\frac{1}{67}, -\frac{8}{67})$ $+\frac{1}{67}\sqrt{2365}e^5 \otimes e_9 + \frac{8}{67}\sqrt{43}e^2 \otimes e_7$	{123489, 1239, 145678, 1567, 2469, 2689, 3457, 3578}
941:5	$0, 0, 0, 0, 0, \frac{12}{3749}\sqrt{3565}e^{12}, \frac{6}{3749}\sqrt{32302}e^{13}, \frac{6}{3749}\sqrt{21979}e^{14}, \frac{12}{3749}\sqrt{6758}e^{16}$	$(\frac{48}{3749}, -\frac{213}{3749}, \frac{441}{3749}, -\frac{510}{3749}, \frac{1047}{3749}, -\frac{165}{3749}, \frac{3}{3749}, -\frac{462}{3749}, -\frac{117}{3749})$ $+\frac{120}{3749}\sqrt{62}e^5 \otimes e_7 + \frac{12}{3749}\sqrt{9579}e^3 \otimes e_9 + \frac{6}{3749}\sqrt{45446}e^1 \otimes e_4$	{1279, 1356, 24569, 347}
941:5	$0, 0, 0, 0, 0, \frac{19}{311}\sqrt{7}e^{12}, \frac{14}{311}\sqrt{95}e^{13}, \frac{1}{311}\sqrt{665}e^{14}, \frac{4}{311}\sqrt{399}e^{16}$	$(-\frac{75}{311}, \frac{173}{311}, \frac{139}{311}, \frac{57}{311}, \frac{255}{311}, \frac{23}{311}, -\frac{11}{311}, -\frac{93}{311}, -\frac{127}{311})$ $+\frac{14}{311}\sqrt{95}e^2 \otimes e_8 + \frac{1}{311}\sqrt{30191}e^3 \otimes e_9 + \frac{7}{311}\sqrt{551}e^5 \otimes e_7$	{1279, 134568, 24569, 378}
941:5	$0, 0, 0, 0, 0, \frac{1}{179}\sqrt{2730}e^{12}, \frac{2}{179}\sqrt{1245}e^{13}, \frac{6}{179}\sqrt{130}e^{14}, \frac{30}{179}e^{16}$	$(-\frac{38}{179}, \frac{35}{179}, \frac{41}{179}, \frac{19}{179}, \frac{63}{179}, -\frac{3}{179}, \frac{3}{179}, -\frac{19}{179}, -\frac{41}{179})$ $+\frac{1}{179}\sqrt{6090}e^5 \otimes e_7 + \frac{1}{179}\sqrt{8430}e^3 \otimes e_8 + \frac{3}{179}\sqrt{610}e^4 \otimes e_9$	{126789, 1345, 2379, 4568}
941:5	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{47}e^{12}, \frac{1}{67}\sqrt{987}e^{13}, \frac{1}{67}\sqrt{987}e^{14}, \frac{2}{67}\sqrt{94}e^{16}$	$(-\frac{13}{67}, \frac{12}{67}, \frac{31}{67}, -\frac{3}{67}, \frac{33}{67}, -\frac{1}{67}, \frac{18}{67}, -\frac{16}{67}, -\frac{14}{67})$ $+\frac{1}{67}\sqrt{2397}e^5 \otimes e_9 + \frac{2}{67}\sqrt{799}e^3 \otimes e_8$	{123456, 125678, 1349, 1789, 2357, 2458, 3679, 4689}
941:5	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{3115}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{21}{139}\sqrt{5}e^{14}, \frac{2}{139}\sqrt{455}e^{16}$	$(\frac{15}{278}, \frac{23}{139}, -\frac{55}{278}, -\frac{39}{278}, \frac{15}{139}, \frac{61}{278}, \frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $+\frac{1}{139}\sqrt{210}e^5 \otimes e_7 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_8 + \frac{1}{139}\sqrt{4795}e^1 \otimes e_3$	{12459, 1568, 23569, 3458}
941:5	$0, 0, 0, 0, 0, \frac{9}{112}\sqrt{14}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{112}\sqrt{70}e^{14}, \frac{3}{28}\sqrt{7}e^{16}$	$(\frac{3}{224}, \frac{5}{56}, -\frac{33}{224}, -\frac{19}{224}, \frac{31}{112}, \frac{23}{224}, -\frac{15}{112}, -\frac{1}{14}, \frac{13}{112})$ $+\frac{3}{112}\sqrt{134}e^2 \otimes e_8 + \frac{3}{112}\sqrt{190}e^1 \otimes e_3 + \frac{3}{56}\sqrt{23}e^5 \otimes e_9$	{1249, 1568, 2369, 3458}
941:5	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{21}e^{12}, \frac{4}{17}\sqrt{5}e^{13}, \frac{8}{51}\sqrt{6}e^{14}, \frac{4}{51}\sqrt{21}e^{16}$	$(-\frac{16}{51}, \frac{7}{17}, \frac{13}{51}, \frac{13}{51}, \frac{5}{51}, \frac{5}{51}, -\frac{1}{17}, -\frac{1}{17}, -\frac{11}{51})$ $+\frac{4}{51}\sqrt{69}e^2 \otimes e_7 + \frac{4}{51}\sqrt{69}e^3 \otimes e_9$	{24569, 2469, 25689, 2689, 3457, 347, 3578, 378}
941:5	$0, 0, 0, 0, 0, \frac{6}{2483}\sqrt{25438}e^{12}, \frac{6}{2483}\sqrt{6670}e^{13}, \frac{12}{2483}\sqrt{4255}e^{14}, \frac{6}{2483}\sqrt{15962}e^{16}$	$(\frac{141}{2483}, \frac{282}{2483}, -\frac{687}{2483}, -\frac{153}{2483}, \frac{816}{2483}, \frac{423}{2483}, -\frac{42}{191}, -\frac{12}{2483}, \frac{564}{2483})$ $+\frac{12}{2483}\sqrt{7107}e^2 \otimes e_7 + \frac{6}{2483}\sqrt{27554}e^5 \otimes e_8 + \frac{6}{2483}\sqrt{48254}e^1 \otimes e_3$	{12459, 1289, 234689, 23569}
941:5	$0, 0, 0, 0, 0, \frac{2}{403}\sqrt{4623}e^{12}, \frac{4}{403}\sqrt{2010}e^{13}, \frac{4}{403}\sqrt{2010}e^{14}, \frac{4}{403}\sqrt{134}e^{16}$	$(\frac{53}{403}, -\frac{81}{403}, \frac{100}{403}, -\frac{87}{403}, \frac{33}{403}, -\frac{28}{403}, \frac{153}{403}, -\frac{34}{403}, \frac{25}{403})$ $+\frac{2}{403}\sqrt{12261}e^1 \otimes e_2 + \frac{2}{403}\sqrt{12529}e^3 \otimes e_8$	{134, 1345, 1578, 178, 23579, 2379, 24589, 2489}
941:5	$0, 0, 0, 0, 0, \frac{4}{1541}\sqrt{16359}e^{12}, \frac{1}{1541}\sqrt{755630}e^{13}, \frac{13}{1541}\sqrt{1558}e^{14}, \frac{1}{1541}\sqrt{132430}e^{16}$	$(\frac{338}{1541}, -\frac{441}{1541}, -\frac{5}{23}, -\frac{19}{1541}, \frac{34}{67}, -\frac{103}{1541}, \frac{3}{1541}, \frac{319}{1541}, \frac{235}{1541})$ $+\frac{1}{1541}\sqrt{1182522}e^1 \otimes e_2 + \frac{4}{1541}\sqrt{61541}e^5 \otimes e_7$	{13459, 13589, 1479, 1789, 23478, 237, 2458, 25}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:5	$0, 0, 0, 0, 0, \frac{4}{151}\sqrt{66}e^{12}, \frac{12}{151}\sqrt{30}e^{13}, \frac{4}{151}\sqrt{58}e^{14}, \frac{8}{151}\sqrt{3}e^{16}$	$(-\frac{38}{151}, \frac{115}{302}, \frac{63}{302}, \frac{11}{302}, \frac{91}{302}, \frac{39}{302}, -\frac{13}{302}, -\frac{65}{302}, -\frac{37}{302})$ $+ \frac{4}{151}\sqrt{262}e^5 \otimes e_9 + \frac{8}{151}\sqrt{105}e^3 \otimes e_8 + \frac{8}{151}\sqrt{106}e^2 \otimes e_7$	{12349, 15678, 24689, 357}
941:5	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{39342}e^{12}, \frac{1}{521}\sqrt{94326}e^{13}, \frac{6}{521}\sqrt{1185}e^{14}, \frac{1}{521}\sqrt{39342}e^{16}$	$(-\frac{83}{521}, \frac{123}{521}, \frac{104}{521}, -\frac{50}{521}, \frac{258}{521}, \frac{40}{521}, \frac{21}{521}, -\frac{133}{521}, -\frac{43}{521})$ $+ \frac{1}{521}\sqrt{124662}e^3 \otimes e_8 + \frac{2}{521}\sqrt{25833}e^5 \otimes e_7$	{1234569, 126789, 1345, 178, 2379, 24589, 367, 4568}
941:5	$0, 0, 0, 0, 0, \frac{6}{229}\sqrt{238}e^{12}, \frac{2}{229}\sqrt{3162}e^{13}, \frac{2}{229}\sqrt{2091}e^{14}, \frac{6}{229}\sqrt{238}e^{16}$	$(\frac{42}{229}, -\frac{19}{229}, \frac{43}{229}, -\frac{60}{229}, -\frac{59}{229}, \frac{23}{229}, \frac{85}{229}, -\frac{18}{229}, \frac{65}{229})$ $+ \frac{2}{229}\sqrt{4182}e^3 \otimes e_5 + \frac{4}{229}\sqrt{1581}e^1 \otimes e_4$	{1239, 12579, 136, 1567, 234679, 24569, 347, 45}
941:5	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{94}e^{12}, \frac{1}{67}\sqrt{987}e^{13}, \frac{1}{67}\sqrt{987}e^{14}, \frac{3}{67}\sqrt{47}e^{16}$	$(-\frac{13}{67}, \frac{29}{67}, \frac{31}{67}, -\frac{3}{67}, -\frac{18}{67}, \frac{16}{67}, \frac{18}{67}, -\frac{16}{67}, \frac{3}{67})$ $+ \frac{1}{67}\sqrt{2397}e^2 \otimes e_5 + \frac{2}{67}\sqrt{799}e^3 \otimes e_8$	{1234, 1278, 134569, 156789, 2367, 2468, 3579, 4589}
941:5	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{23}e^{12}, \frac{3}{58}\sqrt{69}e^{13}, \frac{3}{58}\sqrt{69}e^{14}, \frac{1}{29}\sqrt{23}e^{16}$	$(\frac{1}{29}, \frac{2}{29}, \frac{35}{116}, -\frac{15}{116}, -\frac{21}{58}, \frac{3}{58}, \frac{39}{116}, -\frac{11}{116}, \frac{4}{29})$ $+ \frac{3}{58}\sqrt{138}e^1 \otimes e_5 + \frac{5}{58}\sqrt{46}e^3 \otimes e_8$	{12349, 12789, 1346, 1678, 235679, 245689, 357, 458}
941:5	$0, 0, 0, 0, 0, \frac{2}{1601}\sqrt{123906}e^{12}, \frac{5}{1601}\sqrt{15054}e^{13}, \frac{4}{1601}\sqrt{579}e^{14}, \frac{2}{1601}\sqrt{59637}e^{16}$	$(-\frac{16}{1601}, \frac{408}{1601}, -\frac{155}{1601}, \frac{178}{1601}, -\frac{595}{1601}, \frac{392}{1601}, \frac{171}{1601}, \frac{162}{1601}, \frac{376}{1601})$ $+ \frac{3}{1601}\sqrt{98430}e^1 \otimes e_5 + \frac{6}{1601}\sqrt{21423}e^2 \otimes e_7$	{123489, 1239, 14678, 167, 24569, 25689, 3457, 3578}
941:5	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1030}e^{12}, \frac{2}{161}\sqrt{6386}e^{13}, \frac{2}{161}\sqrt{515}e^{14}, \frac{2}{161}\sqrt{1030}e^{16}$	$(-\frac{10}{161}, \frac{37}{161}, \frac{99}{161}, \frac{32}{161}, -\frac{107}{161}, \frac{27}{161}, \frac{89}{161}, \frac{22}{161}, \frac{17}{161})$ $+ \frac{2}{161}\sqrt{13802}e^3 \otimes e_5$	{1234689, 12369, 12456789, 125679, 13, 1348, 14578, 157, 23479, 23789, 2459, 2589, 3467, 3678, 456, 568}
941:5	$0, 0, 0, 0, 0, \frac{12}{3257}\sqrt{3710}e^{12}, \frac{6}{3257}\sqrt{33178}e^{13}, \frac{24}{3257}\sqrt{1537}e^{14}, \frac{54}{3257}\sqrt{318}e^{16}$	$(\frac{219}{3257}, -\frac{735}{3257}, \frac{657}{3257}, -\frac{214}{3257}, \frac{959}{3257}, -\frac{516}{3257}, \frac{876}{3257}, \frac{5}{3257}, -\frac{297}{3257})$ $+ \frac{6}{3257}\sqrt{37577}e^5 \otimes e_8 + \frac{6}{3257}\sqrt{54749}e^3 \otimes e_9 + \frac{6}{3257}\sqrt{67045}e^1 \otimes e_2$	{14579, 1789, 23478, 2357}
941:5	$0, 0, 0, 0, 0, \frac{2}{103}\sqrt{442}e^{12}, \frac{2}{103}\sqrt{299}e^{13}, \frac{4}{103}\sqrt{78}e^{14}, \frac{4}{103}\sqrt{65}e^{16}$	$(\frac{6}{103}, \frac{17}{103}, -\frac{20}{103}, -\frac{15}{103}, \frac{9}{103}, \frac{23}{103}, \frac{14}{103}, -\frac{9}{103}, \frac{29}{103})$ $+ \frac{2}{103}\sqrt{546}e^2 \otimes e_8 + \frac{52}{103}e^1 \otimes e_3$	{12459, 1249, 1568, 168, 23569, 2369, 3458, 348}
941:5	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{858}e^{12}, \frac{1}{44}\sqrt{429}e^{13}, \frac{1}{44}\sqrt{429}e^{14}, \frac{1}{44}\sqrt{858}e^{16}$	$(\frac{1}{4}, -\frac{3}{44}, \frac{5}{88}, \frac{5}{88}, -\frac{7}{11}, \frac{2}{11}, \frac{27}{88}, \frac{27}{88}, \frac{19}{44})$ $+ \frac{3}{22}\sqrt{78}e^1 \otimes e_5$	{12349, 12389, 12789, 1346, 1368, 1678, 23456789, 235679, 2569, 34578, 357, 5}
941:5	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{455}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{2030}e^{14}, \frac{1}{139}\sqrt{3115}e^{16}$	$(\frac{15}{278}, -\frac{14}{139}, \frac{36}{139}, -\frac{55}{278}, \frac{15}{139}, -\frac{13}{278}, \frac{87}{278}, -\frac{20}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{210}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^3 \otimes e_9 + \frac{1}{139}\sqrt{4795}e^1 \otimes e_4$	{12579, 1356, 24569, 3457}
941:5	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{65}e^{12}, \frac{4}{103}\sqrt{78}e^{13}, \frac{2}{103}\sqrt{299}e^{14}, \frac{2}{103}\sqrt{442}e^{16}$	$(\frac{6}{103}, -\frac{11}{103}, \frac{27}{103}, -\frac{20}{103}, \frac{9}{103}, \frac{5}{103}, \frac{33}{103}, -\frac{14}{103}, \frac{1}{103})$ $+ \frac{2}{103}\sqrt{546}e^3 \otimes e_9 + \frac{52}{103}e^1 \otimes e_4$	{12579, 1279, 1356, 136, 24569, 2469, 3457, 347}
941:5	$0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{57706}e^{12}, \frac{2}{1315}\sqrt{142923}e^{13}, \frac{1}{1315}\sqrt{189222}e^{14}, \frac{7}{1315}\sqrt{4026}e^{16}$	$(-\frac{337}{1315}, \frac{653}{1315}, \frac{319}{1315}, -\frac{3}{263}, \frac{126}{1315}, \frac{316}{1315}, -\frac{18}{1315}, -\frac{352}{1315}, -\frac{21}{1315})$ $+ \frac{1}{1315}\sqrt{830698}e^3 \otimes e_8 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_7$	{1234, 12345, 156789, 16789, 24568, 2468, 3579, 379}
941:5	$0, 0, 0, 0, 0, \frac{6}{229}\sqrt{238}e^{12}, \frac{2}{229}\sqrt{2091}e^{13}, \frac{2}{229}\sqrt{3162}e^{14}, \frac{6}{229}\sqrt{238}e^{16}$	$(\frac{42}{229}, -\frac{19}{229}, -\frac{60}{229}, -\frac{39}{229}, \frac{105}{229}, \frac{23}{229}, -\frac{18}{229}, \frac{3}{229}, \frac{65}{229})$ $+ \frac{2}{229}\sqrt{4182}e^5 \otimes e_8 + \frac{4}{229}\sqrt{1581}e^1 \otimes e_3$	{12459, 1289, 1456, 168, 234689, 23569, 348, 35}
941:5	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{203}e^{12}, \frac{7}{43}\sqrt{3}e^{13}, \frac{1}{43}\sqrt{119}e^{14}, \frac{1}{43}\sqrt{322}e^{16}$	$(\frac{3}{43}, -\frac{7}{86}, \frac{6}{43}, -\frac{11}{43}, \frac{33}{86}, -\frac{1}{86}, \frac{9}{43}, -\frac{8}{43}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{210}e^3 \otimes e_8 + \frac{2}{43}\sqrt{357}e^5 \otimes e_9 + \frac{2}{43}\sqrt{133}e^1 \otimes e_4$	{1239, 1356, 234679, 3457}
941:5	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{28457}e^{12}, \frac{1}{391}\sqrt{22451}e^{13}, \frac{1}{391}\sqrt{7293}e^{14}, \frac{2}{391}\sqrt{10582}e^{16}$	$(\frac{3}{23}, -\frac{62}{391}, -\frac{4}{17}, \frac{12}{391}, \frac{183}{391}, -\frac{11}{391}, -\frac{41}{391}, \frac{63}{391}, \frac{40}{391})$ $+ \frac{1}{391}\sqrt{41613}e^5 \otimes e_9 + \frac{52}{391}\sqrt{22}e^1 \otimes e_3$	{1249, 1289, 1456, 1568, 234689, 2369, 3458, 35}
941:6	$0, 0, 0, 0, 0, \frac{1}{295}\sqrt{5977}e^{12}, \frac{1}{295}\sqrt{3311}e^{13}, \frac{1}{295}\sqrt{5977}e^{14}, \frac{2}{295}\sqrt{1462}e^{26}$	$(\frac{14}{295}, \frac{11}{295}, -\frac{29}{295}, -\frac{46}{295}, \frac{79}{295}, \frac{5}{59}, -\frac{3}{59}, -\frac{32}{295}, \frac{36}{295})$ $+ \frac{1}{295}\sqrt{4773}e^5 \otimes e_9 + \frac{1}{295}\sqrt{7826}e^1 \otimes e_3 + \frac{1}{59}\sqrt{430}e^2 \otimes e_8$	{1249, 1689, 2356, 3458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:6	$0, 0, 0, 0, 0, \frac{14}{691}\sqrt{106}e^{12}, \frac{2}{2073}\sqrt{127995}e^{13}, \frac{1}{2073}\sqrt{184758}e^{14},$ $\frac{1}{2073}\sqrt{512722}e^{26}$	$(-\frac{166}{691}, \frac{254}{2073}, \frac{127}{691}, \frac{148}{691}, \frac{65}{691}, -\frac{244}{2073}, -\frac{39}{691}, -\frac{18}{691}, \frac{10}{2073})$ $+\frac{2}{2073}\sqrt{162498}e^3 \otimes e_9 + \frac{2}{2073}\sqrt{185871}e^2 \otimes e_7$	{1456789, 146789, 15679, 1679, 3457, 347, 3578, 378}
941:6	$0, 0, 0, 0, 0, \frac{14}{1529}\sqrt{947}e^{12}, \frac{1}{1529}\sqrt{350390}e^{13}, \frac{2}{1529}\sqrt{138262}e^{14},$ $\frac{1}{1529}\sqrt{607974}e^{26}$	$(-\frac{196}{1529}, -\frac{40}{1529}, \frac{564}{1529}, \frac{61}{139}, -\frac{383}{1529}, -\frac{236}{1529}, \frac{368}{1529}, \frac{475}{1529}, -\frac{276}{1529})$ $+\frac{2}{1529}\sqrt{268001}e^3 \otimes e_5 + \frac{2}{1529}\sqrt{369330}e^4 \otimes e_9$	{12346, 124567, 134, 1457, 2379, 259, 3679, 569}
941:6	$0, 0, 0, 0, 0, \frac{1}{512}\sqrt{15841}e^{12}, \frac{1}{512}\sqrt{84630}e^{13}, \frac{1}{512}\sqrt{15841}e^{14},$ $\frac{1}{256}\sqrt{11067}e^{26}$	$(-\frac{73}{512}, -\frac{33}{1024}, \frac{111}{512}, \frac{171}{1024}, \frac{255}{512}, -\frac{179}{1024}, \frac{19}{256}, \frac{25}{1024}, -\frac{53}{256})$ $+\frac{1}{256}\sqrt{22351}e^5 \otimes e_7 + \frac{1}{512}\sqrt{111538}e^3 \otimes e_9$	{1234568, 12356, 13458, 135, 2459, 2589, 4569, 5689}
941:6	$0, 0, 0, 0, 0, \frac{14}{1529}\sqrt{947}e^{12}, \frac{2}{1529}\sqrt{138262}e^{13}, \frac{1}{1529}\sqrt{350390}e^{14},$ $\frac{1}{1529}\sqrt{607974}e^{26}$	$(-\frac{196}{1529}, -\frac{40}{1529}, \frac{61}{139}, -\frac{2}{1529}, \frac{749}{1529}, -\frac{236}{1529}, \frac{475}{1529}, -\frac{18}{139}, -\frac{276}{1529})$ $+\frac{2}{1529}\sqrt{268001}e^5 \otimes e_8 + \frac{2}{1529}\sqrt{369330}e^3 \otimes e_9$	{123456, 12368, 1345, 138, 2489, 259, 4689, 569}
941:6	$0, 0, 0, 0, 0, \frac{2}{1865}\sqrt{242094}e^{12}, \frac{4}{1865}\sqrt{20046}e^{13}, \frac{9}{1865}\sqrt{3598}e^{14},$ $\frac{3}{1865}\sqrt{61166}e^{26}$	$(\frac{378}{1865}, \frac{86}{1865}, -\frac{393}{1865}, \frac{4}{1865}, -\frac{137}{373}, \frac{464}{1865}, -\frac{3}{373}, \frac{382}{1865}, \frac{110}{373})$ $+\frac{2}{1865}\sqrt{306087}e^1 \otimes e_3 + \frac{2}{1865}\sqrt{338469}e^2 \otimes e_5$	{1249, 1289, 14569, 15689, 23468, 236, 3458, 35}
941:6	$0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{121261}e^{12}, \frac{1}{2001}\sqrt{1355270}e^{13}, \frac{2}{2001}\sqrt{124318}e^{14},$ $\frac{1}{2001}\sqrt{132470}e^{26}$	$(-\frac{476}{2001}, \frac{16}{87}, \frac{124}{667}, \frac{305}{667}, \frac{647}{2001}, -\frac{36}{667}, -\frac{104}{2001}, \frac{439}{2001}, \frac{260}{2001})$ $+\frac{2}{2001}\sqrt{428999}e^3 \otimes e_5 + \frac{2}{2001}\sqrt{491158}e^4 \otimes e_7$	{12346, 125678, 134, 1578, 2379, 24589, 3679, 45689}
941:6	$0, 0, 0, 0, 0, \frac{2}{193}\sqrt{1165}e^{12}, \frac{2}{193}\sqrt{1165}e^{13}, \frac{1}{579}\sqrt{18174}e^{14},$ $\frac{1}{579}\sqrt{89938}e^{26}$	$(-\frac{26}{193}, \frac{38}{579}, \frac{77}{193}, \frac{34}{193}, -\frac{65}{193}, -\frac{40}{579}, \frac{51}{193}, \frac{8}{193}, -\frac{2}{579})$ $+\frac{2}{579}\sqrt{30057}e^2 \otimes e_5 + \frac{2}{579}\sqrt{30057}e^3 \otimes e_9$	{124789, 1279, 1456789, 15679, 23467, 23678, 3457, 3578}
941:6	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{1595}e^{12}, \frac{1}{384}\sqrt{9570}e^{13}, \frac{1}{128}\sqrt{1595}e^{14}, \frac{1}{24}\sqrt{145}e^{26}$	$(-\frac{29}{128}, \frac{107}{768}, \frac{55}{128}, -\frac{3}{256}, \frac{15}{128}, -\frac{67}{768}, \frac{13}{64}, -\frac{61}{256}, \frac{5}{96})$ $+\frac{1}{128}\sqrt{4930}e^3 \otimes e_9 + \frac{1}{192}\sqrt{13485}e^2 \otimes e_8$	{124579, 12479, 156789, 16789, 23567, 2367, 34578, 3478}
941:6	$0, 0, 0, 0, 0, \frac{28}{505}\sqrt{21}e^{12}, \frac{21}{505}\sqrt{62}e^{13}, \frac{14}{505}\sqrt{174}e^{14}, \frac{21}{505}\sqrt{46}e^{26}$	$(-\frac{112}{505}, \frac{28}{505}, \frac{126}{505}, \frac{91}{505}, \frac{161}{505}, -\frac{84}{505}, \frac{14}{505}, -\frac{21}{505}, \frac{56}{505})$ $+\frac{14}{505}\sqrt{249}e^4 \otimes e_9 + \frac{14}{505}\sqrt{267}e^3 \otimes e_8 + \frac{84}{505}\sqrt{5}e^5 \otimes e_7$	{123456, 1345, 2379, 3679}
941:6	$0, 0, 0, 0, 0, \frac{8}{371}\sqrt{393}e^{12}, \frac{8}{371}\sqrt{262}e^{13}, \frac{8}{371}\sqrt{393}e^{14}, \frac{2}{371}\sqrt{1965}e^{26}$	$(\frac{96}{371}, -\frac{18}{371}, -\frac{166}{371}, -\frac{3}{371}, \frac{192}{371}, \frac{78}{371}, -\frac{10}{53}, \frac{93}{371}, \frac{60}{371})$ $+\frac{2}{371}\sqrt{23449}e^1 \otimes e_3 + \frac{2}{53}\sqrt{393}e^5 \otimes e_7$	{12479, 12789, 14679, 16789, 234678, 2367, 3478, 37}
941:6	$0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{121261}e^{12}, \frac{1}{2001}\sqrt{1355270}e^{13}, \frac{2}{2001}\sqrt{124318}e^{14},$ $\frac{1}{2001}\sqrt{132470}e^{26}$	$(-\frac{476}{2001}, \frac{16}{87}, \frac{494}{2001}, -\frac{49}{2001}, \frac{1037}{2001}, -\frac{36}{667}, \frac{6}{667}, -\frac{175}{667}, \frac{260}{2001})$ $+\frac{2}{2001}\sqrt{428999}e^5 \otimes e_7 + \frac{2}{2001}\sqrt{491158}e^3 \otimes e_8$	{123456, 12678, 1345, 178, 2379, 24589, 3679, 45689}
941:6	$0, 0, 0, 0, 0, \frac{1}{151}\sqrt{2702}e^{12}, \frac{1}{151}\sqrt{21230}e^{13}, \frac{1}{151}\sqrt{2702}e^{14}, \frac{3}{151}\sqrt{386}e^{26}$	$(-\frac{14}{151}, \frac{25}{151}, \frac{96}{151}, \frac{34}{151}, -\frac{97}{151}, \frac{11}{151}, \frac{82}{151}, \frac{20}{151}, \frac{36}{151})$ $+\frac{2}{151}\sqrt{11966}e^3 \otimes e_5$	{123468, 1236, 1245678, 12567, 13, 1348, 14578, 157, 23479, 23789, 2459, 2589, 34679, 36789, 4569, 5689}
941:6	$0, 0, 0, 0, 0, \frac{46}{139}e^{12}, \frac{9}{139}\sqrt{46}e^{13}, \frac{9}{139}\sqrt{46}e^{14}, \frac{4}{139}\sqrt{23}e^{26}$	$(-\frac{46}{139}, \frac{31}{139}, \frac{35}{139}, \frac{35}{139}, \frac{12}{139}, -\frac{15}{139}, -\frac{11}{139}, -\frac{11}{139}, \frac{16}{139})$ $+\frac{1}{139}\sqrt{5842}e^3 \otimes e_8 - \frac{1}{139}\sqrt{5842}e^4 \otimes e_7$	{123456, 12346, 125678, 12678, 134, 1345, 1578, 178, 23579, 2379, 35679, 3679}
941:6	$0, 0, 0, 0, 0, \frac{46}{139}e^{12}, \frac{9}{139}\sqrt{46}e^{13}, \frac{9}{139}\sqrt{46}e^{14}, \frac{4}{139}\sqrt{23}e^{26}$	$(-\frac{46}{139}, \frac{31}{139}, \frac{35}{139}, \frac{35}{139}, \frac{12}{139}, -\frac{15}{139}, -\frac{11}{139}, -\frac{11}{139}, \frac{16}{139})$ $+\frac{1}{139}\sqrt{5842}e^3 \otimes e_8 + \frac{1}{139}\sqrt{5842}e^4 \otimes e_7$	{123456, 12346, 125678, 12678, 134, 1345, 1578, 178, 23579, 2379, 35679, 3679}
941:6	$0, 0, 0, 0, 0, \frac{9}{1865}\sqrt{3598}e^{12}, \frac{2}{1865}\sqrt{242094}e^{13}, \frac{4}{1865}\sqrt{20046}e^{14},$ $\frac{3}{1865}\sqrt{61166}e^{26}$	$(\frac{378}{1865}, -\frac{353}{1865}, \frac{443}{1865}, -\frac{393}{1865}, \frac{193}{1865}, \frac{5}{373}, \frac{821}{1865}, -\frac{3}{373}, -\frac{328}{1865})$ $+\frac{2}{1865}\sqrt{306087}e^1 \otimes e_4 + \frac{2}{1865}\sqrt{338469}e^3 \otimes e_9$	{12579, 1279, 15679, 1679, 234567, 23467, 3457, 347}
941:6	$0, 0, 0, 0, 0, \frac{1}{154}\sqrt{14529}e^{12}, \frac{1}{77}\sqrt{1670}e^{13}, \frac{1}{154}\sqrt{14529}e^{14}, \frac{3}{154}\sqrt{334}e^{26}$	$(\frac{87}{154}, -\frac{51}{308}, -\frac{40}{77}, -\frac{3}{28}, \frac{27}{154}, \frac{123}{308}, \frac{1}{22}, \frac{141}{308}, \frac{18}{77})$ $+\frac{1}{154}\sqrt{42418}e^1 \otimes e_3$	{12459, 1249, 12589, 1289, 14569, 1469, 15689, 1689, 234568, 23468, 2356, 236, 3, 3458, 348, 35}
941:6	$0, 0, 0, 0, 0, \frac{1}{83}\sqrt{1111}e^{12}, \frac{1}{166}\sqrt{3333}e^{13}, \frac{1}{166}\sqrt{3333}e^{14}, \frac{1}{166}\sqrt{6666}e^{26}$	$(-\frac{17}{83}, \frac{22}{83}, \frac{143}{332}, \frac{9}{332}, -\frac{57}{166}, \frac{5}{83}, \frac{75}{332}, -\frac{59}{332}, \frac{27}{83})$ $+\frac{1}{166}\sqrt{13534}e^3 \otimes e_8 + \frac{1}{83}\sqrt{3939}e^2 \otimes e_5$	{12349, 12789, 134569, 156789, 2367, 2468, 357, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:6	$0, 0, 0, 0, 0, \frac{11}{53}\sqrt{10}e^{12}, \frac{11}{53}\sqrt{10}e^{13}, \frac{11}{159}\sqrt{42}e^{14}, \frac{11}{159}\sqrt{106}e^{26}$	$(-\frac{14}{53}, \frac{61}{159}, -\frac{6}{53}, \frac{16}{53}, \frac{9}{53}, \frac{19}{159}, -\frac{20}{53}, \frac{2}{53}, \frac{80}{159})$ $+\frac{22}{159}\sqrt{66}e^2 \otimes e_7$	{1234589, 123489, 12359, 1239, 1456789, 146789, 15679, 1679, 2456, 246, 2568, 268, 3457, 347, 3578, 378}
941:6	$0, 0, 0, 0, 0, \frac{8}{1561}\sqrt{3295}e^{12}, \frac{30}{1561}\sqrt{659}e^{13}, \frac{1}{1561}\sqrt{67218}e^{14}, \frac{1}{1561}\sqrt{430986}e^{26}$	$(-\frac{478}{1561}, \frac{494}{1561}, \frac{313}{1561}, \frac{132}{1561}, \frac{183}{1561}, \frac{16}{1561}, -\frac{165}{1561}, -\frac{346}{1561}, \frac{510}{1561})$ $+\frac{2}{1561}\sqrt{191110}e^3 \otimes e_8 + \frac{2}{1561}\sqrt{262941}e^2 \otimes e_7$	{123459, 12349, 156789, 16789, 24568, 2468, 357, 37}
941:6	$0, 0, 0, 0, 0, \frac{2}{387}\sqrt{330}e^{12}, \frac{50}{387}\sqrt{11}e^{13}, \frac{2}{387}\sqrt{330}e^{14}, \frac{1}{387}\sqrt{2090}e^{26}$	$(\frac{4}{129}, \frac{13}{387}, \frac{8}{129}, -\frac{98}{387}, \frac{146}{387}, \frac{25}{387}, \frac{4}{43}, -\frac{2}{9}, \frac{38}{387})$ $+\frac{1}{387}\sqrt{26510}e^1 \otimes e_4 + \frac{1}{387}\sqrt{26510}e^3 \otimes e_8 + \frac{5}{387}\sqrt{1034}e^5 \otimes e_7$	{12789, 16789, 24568, 458}
941:6	$0, 0, 0, 0, 0, \frac{5}{961}\sqrt{1790}e^{12}, \frac{5}{961}\sqrt{4110}e^{13}, \frac{5}{961}\sqrt{170}e^{14}, \frac{90}{961}\sqrt{15}e^{26}$	$(-\frac{215}{961}, \frac{150}{961}, \frac{115}{961}, \frac{80}{961}, \frac{335}{961}, -\frac{65}{961}, -\frac{100}{961}, -\frac{135}{961}, \frac{85}{961})$ $+\frac{10}{961}\sqrt{1970}e^2 \otimes e_7 + \frac{20}{961}\sqrt{290}e^3 \otimes e_8 + \frac{5}{961}\sqrt{4930}e^5 \otimes e_9$	{12349, 16789, 24568, 357}
941:6	$0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{124318}e^{12}, \frac{1}{2001}\sqrt{1355270}e^{13}, \frac{2}{2001}\sqrt{121261}e^{14}, \frac{1}{2001}\sqrt{132470}e^{26}$	$(\frac{488}{2001}, -\frac{38}{667}, \frac{124}{667}, -\frac{177}{667}, -\frac{647}{2001}, \frac{374}{2001}, \frac{860}{2001}, -\frac{43}{2001}, \frac{260}{2001})$ $+\frac{2}{2001}\sqrt{428999}e^3 \otimes e_5 + \frac{2}{2001}\sqrt{491158}e^1 \otimes e_4$	{1239, 12579, 1369, 15679, 23467, 2456, 347, 45}
941:6	$0, 0, 0, 0, 0, \frac{1}{772}\sqrt{17765}e^{12}, \frac{7}{772}\sqrt{1254}e^{13}, \frac{1}{772}\sqrt{17765}e^{14}, \frac{33}{386}\sqrt{19}e^{26}$	$(-\frac{161}{772}, \frac{153}{1544}, \frac{201}{772}, \frac{57}{1544}, \frac{249}{772}, -\frac{169}{1544}, \frac{10}{193}, -\frac{265}{1544}, -\frac{2}{193})$ $+\frac{1}{386}\sqrt{18601}e^5 \otimes e_7 + \frac{1}{386}\sqrt{25707}e^2 \otimes e_8 + \frac{1}{772}\sqrt{115786}e^3 \otimes e_9$	{12479, 16789, 2367, 3478}
941:6	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{1670}e^{12}, \frac{1}{154}\sqrt{14529}e^{13}, \frac{1}{154}\sqrt{14529}e^{14}, \frac{3}{154}\sqrt{334}e^{26}$	$(-\frac{20}{77}, \frac{19}{77}, \frac{221}{308}, -\frac{3}{28}, \frac{27}{154}, -\frac{1}{77}, \frac{141}{308}, -\frac{113}{308}, \frac{18}{77})$ $+\frac{1}{154}\sqrt{42418}e^3 \otimes e_8$	{123456, 12346, 125678, 12678, 134, 1345, 1578, 178, 23579, 2379, 24589, 2489, 35679, 3679, 45689, 4689}
941:6	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{230}e^{12}, \frac{1}{41}\sqrt{230}e^{13}, \frac{1}{123}\sqrt{966}e^{14}, \frac{2}{123}\sqrt{943}e^{26}$	$(-\frac{7}{41}, \frac{16}{123}, -\frac{3}{41}, \frac{8}{41}, \frac{19}{41}, -\frac{5}{123}, -\frac{10}{41}, \frac{1}{41}, \frac{11}{123})$ $+\frac{1}{123}\sqrt{4002}e^5 \otimes e_9 + \frac{2}{123}\sqrt{1518}e^2 \otimes e_7$	{123489, 1239, 146789, 1679, 2456, 2568, 3457, 3578}
941:6	$0, 0, 0, 0, 0, \frac{1}{151}\sqrt{2702}e^{12}, \frac{1}{151}\sqrt{21230}e^{13}, \frac{1}{151}\sqrt{2702}e^{14}, \frac{3}{151}\sqrt{386}e^{26}$	$(-\frac{14}{151}, \frac{25}{151}, -\frac{28}{151}, \frac{34}{151}, \frac{1}{151}, -\frac{42}{151}, \frac{20}{151}, \frac{36}{151})$ $+\frac{2}{151}\sqrt{11966}e^5 \otimes e_7$	{1234568, 12356, 124678, 1267, 13458, 135, 1478, 17, 23479, 23789, 2459, 2589, 34679, 36789, 4569, 5689}
941:6	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{34}e^{12}, \frac{1}{43}\sqrt{357}e^{13}, \frac{1}{43}\sqrt{357}e^{14}, \frac{1}{43}\sqrt{51}e^{26}$	$(\frac{2}{43}, \frac{2}{43}, \frac{13}{43}, -\frac{6}{43}, -\frac{15}{43}, \frac{4}{43}, \frac{15}{43}, -\frac{4}{43}, \frac{6}{43})$ $+\frac{1}{43}\sqrt{646}e^3 \otimes e_8 + \frac{1}{43}\sqrt{663}e^1 \otimes e_5$	{12349, 12789, 13469, 16789, 23567, 24568, 357, 458}
941:6	$0, 0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{462}e^{13}, \frac{3}{331}\sqrt{2310}e^{14}, \frac{21}{331}\sqrt{66}e^{26}$	$(-\frac{78}{331}, \frac{99}{331}, \frac{132}{331}, -\frac{12}{331}, -\frac{57}{331}, \frac{21}{331}, \frac{54}{331}, -\frac{90}{331}, \frac{120}{331})$ $+\frac{30}{331}\sqrt{42}e^3 \otimes e_5 + \frac{6}{331}\sqrt{1974}e^2 \otimes e_8$	{12349, 124579, 13689, 156789, 2367, 256, 3478, 458}
941:6	$0, 0, 0, 0, 0, \frac{6}{1579}\sqrt{2759}e^{12}, \frac{3}{1579}\sqrt{30938}e^{13}, \frac{3}{1579}\sqrt{9734}e^{14}, \frac{6}{1579}\sqrt{7843}e^{26}$	$(-\frac{375}{1579}, \frac{192}{1579}, \frac{288}{1579}, \frac{302}{1579}, \frac{206}{1579}, -\frac{183}{1579}, \frac{87}{1579}, -\frac{73}{1579}, \frac{9}{1579})$ $+\frac{3}{1579}\sqrt{3782}e^5 \otimes e_8 + \frac{3}{1579}\sqrt{45322}e^2 \otimes e_7 + \frac{6}{1579}\sqrt{9951}e^3 \otimes e_9$	{146789, 15679, 3457, 378}
941:6	$0, 0, 0, 0, 0, \frac{5}{776}\sqrt{2941}e^{12}, \frac{1}{776}\sqrt{37022}e^{13}, \frac{5}{776}\sqrt{2941}e^{14}, \frac{1}{388}\sqrt{12802}e^{26}$	$(\frac{13}{194}, \frac{167}{1552}, -\frac{121}{776}, -\frac{283}{1552}, \frac{13}{97}, \frac{271}{1552}, -\frac{69}{776}, -\frac{179}{1552}, \frac{219}{776})$ $+\frac{1}{776}\sqrt{103454}e^1 \otimes e_3 + \frac{1}{776}\sqrt{11418}e^5 \otimes e_7 + \frac{1}{776}\sqrt{129058}e^2 \otimes e_8$	{12459, 15689, 2356, 3458}
941:6	$0, 0, 0, 0, 0, \frac{30}{1561}\sqrt{659}e^{12}, \frac{8}{1561}\sqrt{3295}e^{13}, \frac{1}{1561}\sqrt{67218}e^{14}, \frac{1}{1561}\sqrt{430986}e^{26}$	$(\frac{102}{1561}, \frac{204}{1561}, -\frac{557}{1561}, \frac{132}{1561}, \frac{183}{1561}, \frac{306}{1561}, -\frac{65}{223}, \frac{234}{1561}, \frac{510}{1561})$ $+\frac{2}{1561}\sqrt{191110}e^1 \otimes e_3 + \frac{2}{1561}\sqrt{262941}e^2 \otimes e_7$	{145679, 14679, 156789, 16789, 34578, 3478, 357, 37}
941:6	$0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{124318}e^{12}, \frac{2}{2001}\sqrt{121261}e^{13}, \frac{1}{2001}\sqrt{1355270}e^{14}, \frac{1}{2001}\sqrt{132470}e^{26}$	$(\frac{488}{2001}, -\frac{38}{667}, -\frac{177}{667}, -\frac{470}{2001}, \frac{1037}{2001}, \frac{374}{2001}, -\frac{43}{2001}, \frac{6}{667}, \frac{260}{2001})$ $+\frac{2}{2001}\sqrt{428999}e^5 \otimes e_8 + \frac{2}{2001}\sqrt{491158}e^1 \otimes e_3$	{12459, 1289, 14569, 1689, 23468, 2356, 348, 35}
941:6	$0, 0, 0, 0, 0, \frac{1}{156}\sqrt{16986}e^{12}, \frac{1}{156}\sqrt{2235}e^{13}, \frac{1}{156}\sqrt{2235}e^{14}, \frac{1}{78}\sqrt{3874}e^{26}$	$(-\frac{5}{52}, \frac{47}{156}, \frac{23}{104}, \frac{23}{104}, -\frac{17}{26}, \frac{8}{39}, \frac{1}{8}, \frac{79}{156})$ $+\frac{1}{156}\sqrt{38442}e^2 \otimes e_5$	{1234789, 12379, 129, 13456789, 135679, 1569, 2346, 2368, 2678, 345, 358, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:6	$0, 0, 0, 0, 0, \frac{5}{961}\sqrt{4110}e^{12}, \frac{5}{961}\sqrt{1790}e^{13}, \frac{5}{961}\sqrt{170}e^{14}, \frac{90}{961}\sqrt{15}e^{26}$	$\left(\frac{17}{961}, \frac{34}{961}, -\frac{233}{961}, \frac{80}{961}, \frac{335}{961}, \frac{51}{961}, -\frac{216}{961}, \frac{97}{961}, \frac{85}{961}\right)$ $+ \frac{10}{961}\sqrt{1970}e^2 \otimes e_7 + \frac{20}{961}\sqrt{290}e^1 \otimes e_3 + \frac{5}{961}\sqrt{4930}e^5 \otimes e_9$	{14679, 16789, 34578, 357}
941:6	$0, 0, 0, 0, 0, \frac{1}{156}\sqrt{2235}e^{12}, \frac{1}{156}\sqrt{16986}e^{13}, \frac{1}{156}\sqrt{2235}e^{14}, \frac{1}{78}\sqrt{3874}e^{26}$	$\left(-\frac{5}{52}, -\frac{35}{312}, \frac{33}{52}, \frac{23}{104}, \frac{9}{52}, -\frac{5}{24}, \frac{7}{13}, \frac{1}{8}, -\frac{25}{78}\right)$ $+ \frac{1}{156}\sqrt{38442}e^3 \otimes e_9$	{1234568, 123468, 12356, 1236, 13, 13458, 1348, 135, 2459, 249, 2589, 289, 4569, 469, 5689, 689}
941:6	$0, 0, 0, 0, 0, \frac{4}{481}\sqrt{2085}e^{12}, \frac{4}{481}\sqrt{2085}e^{13}, \frac{1}{481}\sqrt{278}e^{14}, \frac{1}{481}\sqrt{26966}e^{26}$	$\left(\frac{2}{481}, \frac{2}{13}, -\frac{67}{481}, \frac{4}{37}, -\frac{137}{481}, \frac{76}{481}, -\frac{5}{37}, \frac{54}{481}, \frac{150}{481}\right)$ $+ \frac{2}{481}\sqrt{13205}e^1 \otimes e_5 + \frac{2}{481}\sqrt{16541}e^2 \otimes e_7$	{12349, 12389, 14679, 16789, 24568, 256, 34578, 357}
941:6	$0, 0, 0, 0, 0, \frac{5}{39}\sqrt{6}e^{12}, \frac{5}{39}\sqrt{6}e^{13}, \frac{5}{39}\sqrt{6}e^{14}, \frac{10}{39}\sqrt{13}e^{26}$	$\left(\frac{1}{13}, -\frac{7}{39}, \frac{2}{13}, \frac{2}{13}, 1, -\frac{4}{39}, \frac{3}{13}, \frac{3}{13}, -\frac{11}{39}\right)$ $+ \frac{5}{13}\sqrt{14}e^5 \otimes e_9$	{12349, 12389, 12789, 13469, 13689, 16789, 2345678, 23567, 256, 34578, 357, 5}
941:6	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{5795}e^{12}, \frac{5}{571}\sqrt{4026}e^{13}, \frac{2}{571}\sqrt{5795}e^{14}, \frac{1}{571}\sqrt{12810}e^{26}$	$\left(\frac{76}{571}, \frac{4}{571}, \frac{152}{571}, -\frac{229}{571}, \frac{63}{571}, \frac{80}{571}, \frac{228}{571}, -\frac{153}{571}, \frac{84}{571}\right)$ $+ \frac{2}{571}\sqrt{38735}e^1 \otimes e_4 + \frac{2}{571}\sqrt{38735}e^3 \otimes e_8$	{125789, 12789, 156789, 16789, 24568, 2468, 458, 48}
941:6	$0, 0, 0, 0, 0, \frac{2}{449}\sqrt{2730}e^{12}, \frac{1}{449}\sqrt{51090}e^{13}, \frac{2}{449}\sqrt{2730}e^{14}, \frac{2}{449}\sqrt{8385}e^{26}$	$\left(\frac{56}{449}, -\frac{62}{449}, \frac{127}{449}, \frac{24}{449}, -\frac{139}{449}, -\frac{6}{449}, \frac{183}{449}, \frac{80}{449}, -\frac{68}{449}\right)$ $+ \frac{1}{449}\sqrt{74490}e^1 \otimes e_5 + \frac{2}{449}\sqrt{20085}e^3 \otimes e_9$	{12479, 12789, 14679, 16789, 2345678, 23567, 34578, 357}
941:6	$0, 0, 0, 0, 0, \frac{3}{331}\sqrt{2310}e^{12}, \frac{3}{331}\sqrt{2310}e^{13}, \frac{3}{331}\sqrt{462}e^{14}, \frac{21}{331}\sqrt{66}e^{26}$	$\left(-\frac{78}{331}, \frac{99}{331}, -\frac{12}{331}, \frac{32}{331}, \frac{143}{331}, \frac{21}{331}, -\frac{90}{331}, -\frac{46}{331}, \frac{120}{331}\right)$ $+ \frac{30}{331}\sqrt{42}e^5 \otimes e_8 + \frac{6}{331}\sqrt{1974}e^2 \otimes e_7$	{123459, 12389, 145679, 16789, 2468, 256, 3478, 357}
941:6	$0, 0, 0, 0, 0, \frac{1}{110}\sqrt{2553}e^{12}, \frac{2}{55}\sqrt{69}e^{13}, \frac{1}{110}\sqrt{2553}e^{14}, \frac{1}{110}\sqrt{2622}e^{26}$	$\left(\frac{37}{110}, -\frac{49}{220}, -\frac{16}{55}, -\frac{1}{20}, \frac{57}{110}, \frac{5}{44}, \frac{1}{22}, \frac{63}{220}, -\frac{6}{55}\right)$ $+ \frac{1}{110}\sqrt{7314}e^1 \otimes e_3 + \frac{1}{55}\sqrt{1518}e^5 \otimes e_9$	{1249, 1289, 1469, 1689, 234568, 2356, 3458, 35}
941:6	$0, 0, 0, 0, 0, \frac{3}{1861}\sqrt{43862}e^{12}, \frac{11}{1861}\sqrt{7230}e^{13}, \frac{1}{1861}\sqrt{328242}e^{14}, \frac{3}{1861}\sqrt{64106}e^{26}$	$\left(-\frac{454}{1861}, \frac{525}{1861}, \frac{256}{1861}, \frac{424}{1861}, -\frac{467}{1861}, \frac{71}{1861}, -\frac{198}{1861}, -\frac{30}{1861}, \frac{596}{1861}\right)$ $+ \frac{20}{1861}\sqrt{3615}e^2 \otimes e_7 + \frac{4}{1861}\sqrt{60009}e^3 \otimes e_5$	{123489, 1239, 1456789, 15679, 2456, 2568, 347, 378}
941:6	$0, 0, 0, 0, 0, \frac{6}{311}\sqrt{341}e^{12}, \frac{33}{311}\sqrt{2}e^{13}, \frac{3}{311}\sqrt{946}e^{14}, \frac{6}{311}\sqrt{253}e^{26}$	$\left(\frac{15}{311}, \frac{30}{311}, -\frac{84}{311}, -\frac{14}{311}, \frac{100}{311}, \frac{45}{311}, -\frac{69}{311}, \frac{1}{311}, \frac{75}{311}\right)$ $+ \frac{3}{311}\sqrt{1562}e^5 \otimes e_8 + \frac{3}{311}\sqrt{2398}e^2 \otimes e_7 + \frac{6}{311}\sqrt{561}e^1 \otimes e_3$	{145679, 16789, 3478, 357}
941:6	$0, 0, 0, 0, 0, \frac{2}{3309}\sqrt{129983}e^{12}, \frac{34}{3309}\sqrt{1797}e^{13}, \frac{4}{1103}\sqrt{1198}e^{14}, \frac{2}{3309}\sqrt{320465}e^{26}$	$\left(\frac{434}{3309}, -\frac{149}{1103}, \frac{246}{1103}, -\frac{764}{3309}, \frac{868}{3309}, -\frac{13}{3309}, \frac{1172}{3309}, -\frac{110}{1103}, -\frac{460}{3309}\right)$ $+ \frac{20}{3309}\sqrt{7787}e^3 \otimes e_9 + \frac{2}{3309}\sqrt{337237}e^5 \otimes e_8 + \frac{2}{3309}\sqrt{683459}e^1 \otimes e_4$	{12579, 15679, 234567, 3457}
941:6	$0, 0, 0, 0, 0, \frac{2}{5001}\sqrt{104854}e^{12}, \frac{4}{5001}\sqrt{226505}e^{13}, \frac{2}{5001}\sqrt{277405}e^{14}, \frac{20}{5001}\sqrt{3563}e^{26}$	$\left(\frac{412}{5001}, -\frac{185}{1667}, \frac{320}{5001}, -\frac{202}{1667}, \frac{1750}{5001}, -\frac{143}{5001}, \frac{244}{1667}, -\frac{194}{5001}, \frac{698}{5001}\right)$ $+ \frac{2}{5001}\sqrt{712091}e^5 \otimes e_7 + \frac{2}{5001}\sqrt{764518}e^1 \otimes e_4 + \frac{2}{5001}\sqrt{890241}e^3 \otimes e_9$	{1279, 1679, 23467, 347}
941:6	$0, 0, 0, 0, 0, \frac{4}{523}\sqrt{2242}e^{12}, \frac{2}{523}\sqrt{5015}e^{13}, \frac{4}{523}\sqrt{2242}e^{14}, \frac{4}{523}\sqrt{1534}e^{26}$	$\left(\frac{41}{523}, \frac{56}{523}, -\frac{77}{523}, -\frac{103}{523}, \frac{49}{523}, \frac{97}{523}, -\frac{36}{523}, -\frac{62}{523}, \frac{153}{523}\right)$ $+ \frac{2}{523}\sqrt{12449}e^1 \otimes e_3 + \frac{2}{523}\sqrt{15517}e^2 \otimes e_8$	{12459, 1249, 15689, 1689, 2356, 236, 3458, 348}
941:6	$0, 0, 0, 0, 0, \frac{3}{323}\sqrt{462}e^{12}, \frac{3}{323}\sqrt{1946}e^{13}, \frac{3}{323}\sqrt{462}e^{14}, \frac{6}{323}\sqrt{259}e^{26}$	$\left(\frac{33}{323}, -\frac{24}{323}, \frac{66}{323}, -\frac{93}{323}, \frac{111}{323}, \frac{9}{323}, \frac{99}{323}, -\frac{60}{323}, -\frac{15}{323}\right)$ $+ \frac{3}{323}\sqrt{2282}e^5 \otimes e_9 + \frac{6}{323}\sqrt{742}e^1 \otimes e_4 + \frac{6}{323}\sqrt{742}e^3 \otimes e_8$	{12789, 16789, 24568, 458}
941:6	$0, 0, 0, 0, 0, \frac{19}{71}e^{12}, \frac{1}{71}\sqrt{646}e^{13}, \frac{1}{71}\sqrt{646}e^{14}, \frac{2}{71}\sqrt{57}e^{26}$	$\left(-\frac{19}{71}, \frac{9}{71}, \frac{15}{71}, \frac{15}{71}, \frac{18}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71}\right)$ $+ \frac{1}{71}\sqrt{1007}e^3 \otimes e_8 - \frac{1}{71}\sqrt{1007}e^4 \otimes e_7 + \frac{5}{71}\sqrt{19}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 3679}
941:6	$0, 0, 0, 0, 0, \frac{19}{71}e^{12}, \frac{1}{71}\sqrt{646}e^{13}, \frac{1}{71}\sqrt{646}e^{14}, \frac{2}{71}\sqrt{57}e^{26}$	$\left(-\frac{19}{71}, \frac{9}{71}, \frac{15}{71}, \frac{15}{71}, \frac{18}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71}\right)$ $+ \frac{1}{71}\sqrt{1007}e^3 \otimes e_8 + \frac{1}{71}\sqrt{1007}e^4 \otimes e_7 + \frac{5}{71}\sqrt{19}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 3679}
941:6	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{69}e^{12}, \frac{1}{110}\sqrt{2553}e^{13}, \frac{1}{110}\sqrt{2553}e^{14}, \frac{1}{110}\sqrt{2622}e^{26}$	$\left(-\frac{8}{55}, \frac{1}{55}, \frac{19}{44}, -\frac{1}{20}, \frac{57}{110}, -\frac{7}{55}, \frac{63}{220}, -\frac{43}{220}, -\frac{6}{55}\right)$ $+ \frac{1}{110}\sqrt{7314}e^3 \otimes e_8 + \frac{1}{55}\sqrt{1518}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:6	$0, 0, 0, 0, 0, \frac{4}{1865} \sqrt{20046}e^{12}, \frac{9}{1865} \sqrt{3598}e^{13}, \frac{2}{1865} \sqrt{242094}e^{14},$ $\frac{3}{1865} \sqrt{61166}e^{26}$	$(-\frac{416}{1865}, \frac{44}{1865}, \frac{798}{1865}, \frac{443}{1865}, \frac{193}{1865}, -\frac{372}{1865}, \frac{382}{1865}, \frac{27}{1865}, -\frac{328}{1865})$ $+\frac{2}{1865} \sqrt{306087}e^3 \otimes e_8 + \frac{2}{1865} \sqrt{338469}e^4 \otimes e_9$	{123456, 12346, 134, 1345, 23579, 2379, 35679, 3679}
941:6	$0, 0, 0, 0, 0, \frac{1}{10} \sqrt{41}e^{12}, \frac{1}{10} \sqrt{41}e^{13}, \frac{1}{10} \sqrt{41}e^{14}, \frac{1}{40} \sqrt{205}e^{26}$	$(\frac{2}{5}, -\frac{3}{40}, -\frac{1}{80}, -\frac{1}{80}, -\frac{5}{8}, \frac{13}{40}, \frac{31}{80}, \frac{31}{80}, \frac{1}{4})$ $+\frac{1}{40} \sqrt{2665}e^1 \otimes e_5$	{12349, 12389, 12789, 13469, 13689, 16789, 2345678, 23567, 256, 34578, 357, 5}
941:7	$0, 0, 0, 0, 0, \frac{3}{55} \sqrt{34}e^{12}, \frac{3}{55} \sqrt{86}e^{13}, \frac{6}{55} \sqrt{13}e^{24}, \frac{3}{55} \sqrt{23}e^{16}$	$(-\frac{3}{55}, \frac{9}{110}, \frac{9}{55}, -\frac{27}{110}, \frac{24}{55}, \frac{3}{110}, \frac{6}{55}, -\frac{9}{55}, -\frac{3}{110})$ $+\frac{3}{55} \sqrt{105}e^3 \otimes e_8 + \frac{3}{55} \sqrt{19}e^2 \otimes e_4 + \frac{3}{55} \sqrt{79}e^5 \otimes e_7$	{126789, 1478, 2589, 4568}
941:7	$0, 0, 0, 0, 0, \frac{2}{141} \sqrt{1074}e^{12}, \frac{1}{141} \sqrt{3938}e^{13}, \frac{1}{141} \sqrt{18258}e^{24},$ $\frac{1}{141} \sqrt{1790}e^{16}$	$(\frac{22}{141}, -\frac{13}{141}, \frac{5}{47}, \frac{30}{47}, -\frac{89}{141}, \frac{3}{47}, \frac{37}{141}, \frac{77}{141}, \frac{31}{141})$ $+\frac{1}{141} \sqrt{41170}e^4 \otimes e_5$	{12346, 123568, 12467, 125678, 13489, 1359, 14789, 1579, 2347, 23578, 24, 258, 346789, 35679, 4689, 569}
941:7	$0, 0, 0, 0, 0, \frac{1}{1749} \sqrt{321494}e^{12}, \frac{4}{1749} \sqrt{10005}e^{13}, \frac{1}{1749} \sqrt{401534}e^{24},$ $\frac{1}{1749} \sqrt{724362}e^{16}$	$(\frac{80}{583}, -\frac{334}{1749}, \frac{8}{159}, -\frac{31}{583}, \frac{271}{583}, -\frac{94}{1749}, \frac{328}{1749}, -\frac{427}{1749}, \frac{146}{1749})$ $+\frac{1}{159} \sqrt{6670}e^5 \otimes e_9 + \frac{4}{583} \sqrt{8671}e^1 \otimes e_8$	{12349, 12479, 1356, 1567, 236789, 2689, 34578, 458}
941:7	$0, 0, 0, 0, 0, \frac{2}{551} \sqrt{19779}e^{12}, \frac{12}{551} \sqrt{2082}e^{13}, \frac{2}{551} \sqrt{17697}e^{24},$ $\frac{4}{551} \sqrt{3470}e^{16}$	$(-\frac{23}{551}, \frac{102}{551}, -\frac{120}{551}, \frac{45}{551}, 1, \frac{79}{551}, -\frac{143}{551}, \frac{147}{551}, \frac{56}{551})$ $+\frac{2}{551} \sqrt{157885}e^5 \otimes e_7$	{1234569, 1235689, 124679, 126789, 13458, 135, 1478, 17, 23479, 23789, 2459, 2589, 34678, 367, 4568, 56}
941:7	$0, 0, 0, 0, 0, \frac{2}{551} \sqrt{19779}e^{12}, \frac{12}{551} \sqrt{2082}e^{13}, \frac{2}{551} \sqrt{17697}e^{24},$ $\frac{4}{551} \sqrt{3470}e^{16}$	$(-\frac{23}{551}, \frac{102}{551}, \frac{335}{551}, \frac{45}{551}, -\frac{359}{551}, \frac{79}{551}, \frac{312}{551}, \frac{147}{551}, \frac{56}{551})$ $+\frac{2}{551} \sqrt{157885}e^3 \otimes e_5$	{123469, 123689, 1245679, 1256789, 13, 1348, 14578, 157, 23479, 23789, 2459, 2589, 34678, 367, 4568, 56}
941:7	$0, 0, 0, 0, 0, \frac{2}{111} \sqrt{345}e^{12}, \frac{2}{111} \sqrt{690}e^{13}, \frac{23}{111} \sqrt{6}e^{24}, \frac{1}{37} \sqrt{230}e^{16}$	$(-\frac{4}{37}, 0, \frac{15}{37}, -\frac{10}{111}, \frac{59}{111}, -\frac{4}{37}, \frac{11}{37}, -\frac{10}{111}, -\frac{8}{37})$ $+\frac{2}{111} \sqrt{1794}e^3 \otimes e_9 + \frac{46}{111} \sqrt{3}e^5 \otimes e_8$	{123456, 12368, 14789, 1579, 23457, 2378, 4689, 569}
941:7	$0, 0, 0, 0, 0, \frac{2}{73} \sqrt{737}e^{12}, \frac{2}{73} \sqrt{335}e^{13}, \frac{1}{73} \sqrt{402}e^{24}, \frac{1}{73} \sqrt{2814}e^{16}$	$(\frac{20}{73}, -\frac{6}{73}, \frac{3}{73}, \frac{16}{73}, -\frac{47}{73}, \frac{14}{73}, \frac{23}{73}, \frac{10}{73}, \frac{34}{73})$ $+\frac{2}{73} \sqrt{2010}e^1 \otimes e_5$	{123489, 1239, 124789, 1279, 1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569, 3457, 3578, 45, 58}
941:7	$0, 0, 0, 0, 0, \frac{2}{1881} \sqrt{35041}e^{12}, \frac{2}{1881} \sqrt{109830}e^{13}, \frac{4}{1881} \sqrt{22489}e^{24},$ $\frac{1}{1881} \sqrt{509402}e^{16}$	$(\frac{125}{1881}, -\frac{14}{99}, \frac{169}{627}, -\frac{4}{57}, \frac{212}{1881}, -\frac{47}{627}, \frac{632}{1881}, -\frac{398}{1881}, -\frac{16}{1881})$ $+\frac{1}{1881} \sqrt{747890}e^3 \otimes e_9 + \frac{2}{627} \sqrt{27719}e^1 \otimes e_8$	{124579, 12479, 1356, 136, 25689, 2689, 34578, 3478}
941:7	$0, 0, 0, 0, 0, \frac{24}{1697} \sqrt{166}e^{12}, \frac{6}{1697} \sqrt{20833}e^{13}, \frac{9}{1697} \sqrt{5810}e^{24},$ $\frac{3}{1697} \sqrt{21082}e^{16}$	$(-\frac{498}{1697}, \frac{630}{1697}, \frac{381}{1697}, -\frac{120}{1697}, \frac{195}{1697}, \frac{132}{1697}, -\frac{117}{1697}, \frac{510}{1697}, -\frac{366}{1697})$ $+\frac{12}{1697} \sqrt{7138}e^3 \otimes e_9 + \frac{6}{1697} \sqrt{33781}e^2 \otimes e_7$	{24569, 2469, 25689, 2689, 34578, 3478, 357, 37}
941:7	$0, 0, 0, 0, 0, \frac{6}{241} \sqrt{255}e^{12}, \frac{1}{241} \sqrt{4930}e^{13}, \frac{2}{241} \sqrt{85}e^{24}, \frac{9}{241} \sqrt{170}e^{16}$	$(\frac{25}{241}, -\frac{31}{241}, -\frac{60}{241}, \frac{50}{241}, \frac{104}{241}, -\frac{6}{241}, -\frac{35}{241}, \frac{19}{241}, \frac{19}{241})$ $+\frac{10}{241} \sqrt{187}e^1 \otimes e_3 + \frac{1}{241} \sqrt{14110}e^5 \otimes e_9 + \frac{3}{241} \sqrt{510}e^4 \otimes e_7$	{12489, 1456, 234689, 345}
941:7	$0, 0, 0, 0, 0, \frac{1}{141} \sqrt{3938}e^{12}, \frac{2}{141} \sqrt{1074}e^{13}, \frac{1}{141} \sqrt{1790}e^{24},$ $\frac{1}{141} \sqrt{18258}e^{16}$	$(-\frac{8}{47}, \frac{10}{141}, \frac{38}{141}, \frac{7}{47}, 1, -\frac{14}{141}, \frac{14}{141}, \frac{31}{141}, -\frac{38}{141})$ $+\frac{1}{141} \sqrt{41170}e^5 \otimes e_9$	{123479, 123789, 1249, 1289, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 3458, 35, 4578, 57}
941:7	$0, 0, 0, 0, 0, \frac{20}{953} \sqrt{19}e^{12}, \frac{120}{953} \sqrt{3}e^{13}, \frac{360}{953} e^{24}, \frac{20}{953} \sqrt{89}e^{16}$	$(-\frac{100}{953}, \frac{70}{953}, -\frac{30}{953}, \frac{70}{953}, \frac{340}{953}, -\frac{30}{953}, -\frac{130}{953}, \frac{140}{953}, -\frac{130}{953})$ $+\frac{20}{953} \sqrt{262}e^5 \otimes e_8 + \frac{40}{953} \sqrt{79}e^4 \otimes e_7 - \frac{60}{953} \sqrt{33}e^2 \otimes e_9$	{123456, 12678, 13489, 1579, 2378, 245, 35679, 4689}
941:7	$0, 0, 0, 0, 0, \frac{20}{953} \sqrt{19}e^{12}, \frac{120}{953} \sqrt{3}e^{13}, \frac{360}{953} e^{24}, \frac{20}{953} \sqrt{89}e^{16}$	$(-\frac{100}{953}, \frac{70}{953}, -\frac{30}{953}, \frac{70}{953}, \frac{340}{953}, -\frac{30}{953}, -\frac{130}{953}, \frac{140}{953}, -\frac{130}{953})$ $+\frac{20}{953} \sqrt{262}e^5 \otimes e_8 + \frac{40}{953} \sqrt{79}e^4 \otimes e_7 + \frac{60}{953} \sqrt{33}e^2 \otimes e_9$	{123456, 12678, 13489, 1579, 2378, 245, 35679, 4689}
941:7	$0, 0, 0, 0, 0, \frac{1}{311} \sqrt{15170}e^{12}, \frac{2}{311} \sqrt{7030}e^{13}, \frac{1}{311} \sqrt{30710}e^{24},$ $\frac{1}{311} \sqrt{7770}e^{16}$	$(-\frac{20}{311}, -\frac{6}{311}, -\frac{40}{311}, \frac{125}{311}, \frac{139}{311}, -\frac{26}{311}, -\frac{60}{311}, \frac{119}{311}, -\frac{46}{311})$ $+\frac{1}{311} \sqrt{38110}e^5 \otimes e_9 + \frac{2}{311} \sqrt{15910}e^4 \otimes e_7$	{123456, 125678, 13489, 179, 23578, 245, 3679, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170}e^{12}, \frac{2}{311}\sqrt{7030}e^{13}, \frac{1}{311}\sqrt{30710}e^{24}, \frac{1}{311}\sqrt{7770}e^{16}$	$(-\frac{20}{311}, -\frac{6}{311}, \frac{132}{311}, -\frac{47}{311}, \frac{139}{311}, -\frac{26}{311}, \frac{112}{311}, -\frac{53}{311}, -\frac{46}{311}) + \frac{1}{311}\sqrt{38110}e^5 \otimes e_9 + \frac{2}{311}\sqrt{15910}e^3 \otimes e_8$	{123456, 125678, 139, 14789, 23457, 258, 3679, 4689}
941:7	$0, 0, 0, 0, 0, \frac{1}{241}\sqrt{4930}e^{12}, \frac{6}{241}\sqrt{255}e^{13}, \frac{9}{241}\sqrt{170}e^{24}, \frac{2}{241}\sqrt{85}e^{16}$	$(\frac{25}{241}, -\frac{31}{241}, -\frac{60}{241}, \frac{50}{241}, \frac{104}{241}, -\frac{6}{241}, -\frac{35}{241}, \frac{19}{241}, \frac{19}{241}) + \frac{10}{241}\sqrt{187}e^4 \otimes e_7 + \frac{1}{241}\sqrt{14110}e^5 \otimes e_8 + \frac{3}{241}\sqrt{510}e^1 \otimes e_3$	{126789, 157, 23789, 3567}
941:7	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{7030}e^{12}, \frac{1}{311}\sqrt{15170}e^{13}, \frac{1}{311}\sqrt{7770}e^{24}, \frac{1}{311}\sqrt{30710}e^{16}$	$(\frac{90}{311}, -\frac{61}{311}, -\frac{95}{311}, \frac{118}{311}, -\frac{67}{311}, \frac{29}{311}, -\frac{5}{311}, \frac{57}{311}, \frac{119}{311}) + \frac{1}{311}\sqrt{38110}e^4 \otimes e_5 + \frac{2}{311}\sqrt{15910}e^1 \otimes e_3$	{1249, 12589, 1468, 156, 23469, 235689, 348, 35}
941:7	$0, 0, 0, 0, 0, \frac{1}{144}\sqrt{12558}e^{12}, \frac{1}{36}\sqrt{161}e^{13}, \frac{7}{144}\sqrt{230}e^{24}, \frac{23}{144}\sqrt{7}e^{16}$	$(-\frac{1}{9}, \frac{35}{72}, \frac{23}{96}, -\frac{17}{288}, -\frac{91}{144}, \frac{3}{8}, \frac{37}{288}, \frac{41}{96}, \frac{19}{72}) + \frac{1}{144}\sqrt{37835}e^2 \otimes e_5$	{123479, 123789, 1249, 1289, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 3458, 35, 4578, 57}
941:7	$0, 0, 0, 0, 0, \frac{1}{374}\sqrt{31578}e^{12}, \frac{1}{374}\sqrt{5817}e^{13}, \frac{5}{187}\sqrt{277}e^{24}, \frac{3}{187}\sqrt{277}e^{16}$	$(-\frac{21}{374}, \frac{207}{748}, \frac{27}{187}, -\frac{347}{748}, \frac{207}{374}, \frac{15}{68}, \frac{3}{34}, -\frac{35}{187}, \frac{123}{748}) + \frac{1}{374}\sqrt{90579}e^5 \otimes e_8 + \frac{1}{374}\sqrt{92518}e^2 \otimes e_4$	{123789, 1289, 134678, 1468, 23689, 26789, 348, 478}
941:7	$0, 0, 0, 0, 0, \frac{4}{4481}\sqrt{163047}e^{12}, \frac{6}{4481}\sqrt{41422}e^{13}, \frac{2}{4481}\sqrt{179310}e^{24}, \frac{24}{4481}\sqrt{4031}e^{16}$	$(\frac{107}{4481}, \frac{339}{4481}, -\frac{727}{4481}, -\frac{495}{4481}, \frac{1387}{4481}, \frac{446}{4481}, -\frac{620}{4481}, -\frac{156}{4481}, \frac{553}{4481}) + \frac{2}{4481}\sqrt{499983}e^2 \otimes e_4 + \frac{2}{4481}\sqrt{790215}e^1 \otimes e_3 + \frac{6}{4481}\sqrt{51569}e^5 \otimes e_9$	{129, 1456, 2369, 345}
941:7	$0, 0, 0, 0, 0, \frac{6}{1817}\sqrt{19770}e^{12}, \frac{2}{1817}\sqrt{121915}e^{13}, \frac{1}{1817}\sqrt{167386}e^{24}, \frac{27}{1817}\sqrt{1318}e^{16}$	$(\frac{224}{1817}, -\frac{254}{1817}, -\frac{435}{1817}, \frac{286}{1817}, \frac{853}{1817}, -\frac{30}{1817}, -\frac{211}{1817}, \frac{32}{1817}, \frac{194}{1817}) + \frac{2}{1817}\sqrt{228673}e^5 \otimes e_9 + \frac{2}{1817}\sqrt{317638}e^1 \otimes e_3$	{12489, 129, 1456, 1568, 234689, 2369, 345, 358}
941:7	$0, 0, 0, 0, 0, \frac{2}{513}\sqrt{4922}e^{12}, \frac{2}{513}\sqrt{8346}e^{13}, \frac{1}{513}\sqrt{33598}e^{24}, \frac{1}{513}\sqrt{1070}e^{16}$	$(-\frac{32}{513}, -\frac{28}{513}, \frac{5}{171}, \frac{10}{57}, \frac{169}{513}, -\frac{20}{171}, -\frac{17}{513}, \frac{62}{513}, -\frac{92}{513}) + \frac{2}{513}\sqrt{11235}e^4 \otimes e_7 + \frac{2}{513}\sqrt{7062}e^5 \otimes e_8 + \frac{2}{513}\sqrt{7169}e^3 \otimes e_9$	{123456, 1579, 2378, 4689}
941:7	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{39}e^{12}, \frac{2}{85}\sqrt{66}e^{13}, \frac{3}{85}\sqrt{26}e^{24}, \frac{3}{85}\sqrt{10}e^{16}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, \frac{9}{85}, -\frac{1}{85}, -\frac{6}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{4}{85}) + \frac{1}{85}\sqrt{258}e^3 \otimes e_8 + \frac{1}{85}\sqrt{258}e^4 \otimes e_7 + \frac{6}{85}e^5 \otimes e_9$	{1234569, 1256789, 367, 468}
941:7	$0, 0, 0, 0, 0, \frac{1}{211}\sqrt{3322}e^{12}, \frac{2}{211}\sqrt{1397}e^{13}, \frac{2}{211}\sqrt{1430}e^{24}, \frac{2}{211}\sqrt{55}e^{16}$	$(-\frac{13}{211}, -\frac{12}{211}, \frac{38}{211}, \frac{6}{211}, \frac{69}{211}, -\frac{25}{211}, \frac{25}{211}, -\frac{6}{211}, -\frac{38}{211}) + \frac{1}{211}\sqrt{4730}e^5 \otimes e_7 + \frac{1}{211}\sqrt{4906}e^4 \otimes e_9 + \frac{1}{211}\sqrt{7590}e^3 \otimes e_8$	{123456, 1359, 2347, 3679}
941:7	$0, 0, 0, 0, 0, \frac{1}{184}\sqrt{830}e^{12}, \frac{1}{92}\sqrt{1743}e^{13}, \frac{3}{184}\sqrt{1162}e^{24}, \frac{1}{184}\sqrt{1245}e^{16}$	$(-\frac{5}{92}, \frac{4}{23}, \frac{143}{368}, -\frac{87}{368}, -\frac{51}{184}, \frac{11}{92}, \frac{123}{368}, -\frac{1}{16}, \frac{3}{46}) + \frac{1}{184}\sqrt{11703}e^2 \otimes e_5 + \frac{1}{92}\sqrt{3901}e^3 \otimes e_8$	{123469, 126789, 135, 14578, 23479, 289, 3567, 4568}
941:7	$0, 0, 0, 0, 0, \frac{4}{93}\sqrt{57}e^{12}, \frac{1}{93}\sqrt{1482}e^{13}, \frac{2}{93}\sqrt{627}e^{24}, \frac{1}{31}\sqrt{190}e^{16}$	$(-\frac{3}{31}, -\frac{1}{31}, -\frac{2}{93}, \frac{12}{31}, \frac{46}{93}, -\frac{4}{31}, -\frac{11}{93}, \frac{11}{31}, -\frac{7}{31}) + \frac{1}{93}\sqrt{3990}e^5 \otimes e_7 + \frac{1}{93}\sqrt{5358}e^4 \otimes e_9$	{123456, 12467, 1359, 179, 2347, 245, 3679, 569}
941:7	$0, 0, 0, 0, 0, \frac{30}{1817}\sqrt{91}e^{12}, \frac{6}{1817}\sqrt{17017}e^{13}, \frac{3}{1817}\sqrt{107198}e^{24}, \frac{3}{1817}\sqrt{10738}e^{16}$	$(-\frac{168}{1817}, \frac{6}{23}, -\frac{177}{1817}, -\frac{392}{1817}, \frac{901}{1817}, \frac{306}{1817}, -\frac{15}{79}, \frac{82}{1817}, \frac{6}{79}) + \frac{24}{1817}\sqrt{2002}e^5 \otimes e_8 + \frac{6}{1817}\sqrt{41678}e^2 \otimes e_7$	{12345, 1238, 146789, 15679, 2456, 268, 34789, 3579}
941:7	$0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{995070}e^{12}, \frac{3}{1819}\sqrt{52890}e^{13}, \frac{1}{1819}\sqrt{271830}e^{24}, \frac{6}{1819}\sqrt{17015}e^{16}$	$(\frac{11}{107}, \frac{270}{1819}, -\frac{4}{17}, -\frac{345}{1819}, \frac{146}{1819}, \frac{457}{1819}, -\frac{241}{1819}, -\frac{75}{1819}, \frac{644}{1819}) + \frac{31}{1819}\sqrt{1230}e^1 \otimes e_3 + \frac{4}{1819}\sqrt{54735}e^2 \otimes e_4$	{1259, 129, 1456, 146, 23569, 2369, 34, 345}
941:7	$0, 0, 0, 0, 0, \frac{6}{473}\sqrt{589}e^{12}, \frac{57}{473}\sqrt{10}e^{13}, \frac{6}{473}\sqrt{38}e^{24}, \frac{18}{473}\sqrt{133}e^{16}$	$(-\frac{6}{473}, -\frac{8}{473}, \frac{151}{473}, \frac{54}{473}, -\frac{177}{473}, -\frac{14}{473}, \frac{145}{473}, \frac{46}{473}, -\frac{20}{473}) + \frac{3}{473}\sqrt{8626}e^1 \otimes e_5 + \frac{42}{473}\sqrt{38}e^3 \otimes e_9$	{124789, 1279, 1346, 1368, 245689, 2569, 3457, 3578}
941:7	$0, 0, 0, 0, 0, \frac{24}{473}\sqrt{38}e^{12}, \frac{24}{473}\sqrt{38}e^{13}, \frac{12}{473}\sqrt{118}e^{24}, \frac{12}{473}\sqrt{118}e^{16}$	$(\frac{42}{473}, \frac{21}{473}, -\frac{30}{473}, -\frac{123}{473}, \frac{156}{473}, \frac{63}{473}, \frac{12}{473}, -\frac{102}{473}, \frac{105}{473}) + \frac{24}{473}\sqrt{55}e^2 \otimes e_4 + \frac{24}{473}\sqrt{55}e^5 \otimes e_7 + \frac{36}{473}\sqrt{46}e^1 \otimes e_8$	{236789, 25689, 3478, 458}
941:7	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{70}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{5}{79}\sqrt{42}e^{24}, \frac{2}{79}\sqrt{105}e^{16}$	$(\frac{11}{79}, -\frac{7}{79}, -\frac{15}{79}, \frac{31}{79}, -\frac{24}{79}, \frac{4}{79}, -\frac{4}{79}, \frac{24}{79}, \frac{15}{79}) + \frac{1}{79}\sqrt{2310}e^1 \otimes e_5 + \frac{1}{79}\sqrt{2590}e^4 \otimes e_7$	{12349, 12789, 13468, 167, 2356789, 24569, 357, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{1}{379}\sqrt{3982}e^{12}, \frac{2}{379}\sqrt{3982}e^{13}, \frac{1}{379}\sqrt{19910}e^{24}, \frac{1}{379}\sqrt{11946}e^{16}$	$(-\frac{52}{379}, \frac{66}{379}, \frac{132}{379}, -\frac{115}{379}, \frac{143}{379}, \frac{14}{379}, \frac{80}{379}, -\frac{49}{379}, -\frac{38}{379})$ $+ \frac{1}{379}\sqrt{38734}e^5 \otimes e_9 + \frac{2}{379}\sqrt{12670}e^3 \otimes e_8 + \frac{8}{379}\sqrt{543}e^2 \otimes e_4$	{12789, 145678, 2689, 458}
941:7	$0, 0, 0, 0, 0, \frac{14}{1475}\sqrt{287}e^{12}, \frac{23}{1475}\sqrt{574}e^{13}, \frac{2}{1475}\sqrt{70889}e^{24}, \frac{7}{1475}\sqrt{1230}e^{16}$	$(-\frac{203}{1475}, \frac{333}{1475}, \frac{249}{1475}, -\frac{371}{1475}, \frac{214}{1475}, \frac{26}{295}, \frac{46}{1475}, -\frac{38}{1475}, -\frac{73}{1475})$ $+ \frac{1}{1475}\sqrt{375970}e^3 \otimes e_8 + \frac{2}{1475}\sqrt{86961}e^2 \otimes e_7 + \frac{7}{1475}\sqrt{1066}e^5 \otimes e_9$	{123469, 14578, 289, 3567}
941:7	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{582}e^{12}, \frac{3}{293}\sqrt{582}e^{13}, \frac{2}{293}\sqrt{1455}e^{24}, \frac{1}{293}\sqrt{18430}e^{16}$	$(\frac{31}{293}, -\frac{51}{293}, -\frac{66}{293}, \frac{108}{293}, \frac{62}{293}, -\frac{20}{293}, \frac{35}{293}, \frac{57}{293}, \frac{11}{293})$ $+ \frac{1}{293}\sqrt{21534}e^4 \otimes e_9 + \frac{1}{293}\sqrt{6790}e^5 \otimes e_7 + \frac{4}{293}\sqrt{1455}e^1 \otimes e_3$	{12589, 14568, 235689, 3458}
941:7	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{11}e^{12}, \frac{2}{23}\sqrt{11}e^{13}, \frac{4}{23}\sqrt{22}e^{24}, \frac{4}{23}\sqrt{22}e^{16}$	$(-\frac{2}{23}, -\frac{3}{23}, \frac{5}{23}, \frac{15}{23}, \frac{4}{23}, -\frac{5}{23}, \frac{3}{23}, \frac{12}{23}, -\frac{7}{23})$ $+ \frac{2}{23}\sqrt{209}e^4 \otimes e_9$	{1234567, 123467, 12456, 1246, 13579, 1379, 159, 19, 234, 2345, 2457, 247, 3569, 369, 5679, 679}
941:7	$0, 0, 0, 0, 0, \frac{56}{225}\sqrt{5}e^{12}, \frac{28}{225}e^{13}, \frac{14}{225}\sqrt{19}e^{24}, \frac{28}{225}\sqrt{11}e^{16}$	$(\frac{8}{225}, \frac{17}{75}, \frac{19}{225}, -\frac{47}{225}, -\frac{2}{5}, \frac{59}{225}, \frac{3}{25}, \frac{4}{225}, \frac{67}{225})$ $+ \frac{14}{225}\sqrt{113}e^1 \otimes e_5 + \frac{14}{225}\sqrt{89}e^2 \otimes e_4$	{1239, 1279, 1346, 1467, 235679, 2569, 3457, 45}
941:7	$0, 0, 0, 0, 0, \frac{2}{1881}\sqrt{109830}e^{12}, \frac{2}{1881}\sqrt{35041}e^{13}, \frac{1}{1881}\sqrt{509402}e^{24}, \frac{4}{1881}\sqrt{22489}e^{16}$	$(\frac{268}{1881}, \frac{20}{1881}, \frac{26}{627}, -\frac{25}{171}, -\frac{503}{1881}, \frac{32}{209}, \frac{346}{1881}, -\frac{85}{627}, \frac{556}{1881})$ $+ \frac{1}{1881}\sqrt{747890}e^2 \otimes e_5 + \frac{2}{627}\sqrt{27719}e^1 \otimes e_8$	{12349, 12479, 1356, 1567, 236789, 2689, 34578, 458}
941:7	$0, 0, 0, 0, 0, \frac{30}{1817}\sqrt{91}e^{12}, \frac{6}{1817}\sqrt{17017}e^{13}, \frac{3}{1817}\sqrt{107198}e^{24}, \frac{3}{1817}\sqrt{10738}e^{16}$	$(-\frac{168}{1817}, \frac{6}{23}, -\frac{177}{1817}, \frac{312}{1817}, -\frac{507}{1817}, \frac{306}{1817}, -\frac{15}{79}, \frac{786}{1817}, \frac{6}{79})$ $+ \frac{24}{1817}\sqrt{2002}e^4 \otimes e_5 + \frac{6}{1817}\sqrt{41678}e^2 \otimes e_7$	{1234, 12358, 146789, 15679, 246, 2568, 34789, 3579}
941:7	$0, 0, 0, 0, 0, \frac{3}{1819}\sqrt{52890}e^{12}, \frac{1}{1819}\sqrt{995070}e^{13}, \frac{6}{1819}\sqrt{17015}e^{24}, \frac{1}{1819}\sqrt{271830}e^{16}$	$(-\frac{55}{1819}, \frac{35}{1819}, \frac{298}{1819}, -\frac{352}{1819}, \frac{858}{1819}, -\frac{20}{1819}, \frac{243}{1819}, -\frac{317}{1819}, -\frac{75}{1819})$ $+ \frac{31}{1819}\sqrt{1230}e^3 \otimes e_8 + \frac{4}{1819}\sqrt{54735}e^5 \otimes e_7$	{1234569, 126789, 135, 1478, 23479, 2589, 367, 4568}
941:7	$0, 0, 0, 0, 0, \frac{20}{369}\sqrt{70}e^{12}, \frac{10}{369}\sqrt{165}e^{13}, \frac{20}{369}\sqrt{5}e^{24}, \frac{10}{369}\sqrt{305}e^{16}$	$(-\frac{106}{369}, \frac{145}{369}, \frac{61}{123}, -\frac{35}{123}, \frac{44}{369}, \frac{13}{369}, \frac{77}{369}, \frac{40}{369}, -\frac{67}{369})$ $+ \frac{10}{123}\sqrt{85}e^2 \otimes e_4 + \frac{20}{369}\sqrt{215}e^3 \otimes e_9$	{12579, 1279, 13456, 1346, 2569, 269, 3457, 347}
941:7	$0, 0, 0, 0, 0, \frac{3}{205}\sqrt{986}e^{12}, \frac{3}{205}\sqrt{986}e^{13}, \frac{6}{205}\sqrt{17}e^{24}, \frac{6}{205}\sqrt{17}e^{16}$	$(-\frac{33}{205}, \frac{87}{205}, \frac{17}{41}, -\frac{66}{205}, -\frac{68}{205}, \frac{54}{205}, \frac{52}{205}, \frac{21}{205}, \frac{21}{205})$ $+ \frac{3}{205}\sqrt{3094}e^2 \otimes e_4 + \frac{3}{205}\sqrt{3094}e^3 \otimes e_5$	{123, 1257, 13469, 145679, 2367, 256, 3479, 459}
941:7	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{1}{9}\sqrt{6}e^{24}, \frac{1}{9}\sqrt{6}e^{16}$	$(0, \frac{2}{9}, -\frac{1}{9}, 0, -\frac{1}{3}, \frac{2}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9})$ $+ \frac{2}{9}\sqrt{6}e^1 \otimes e_5 + \frac{2}{9}\sqrt{6}e^2 \otimes e_7$	{12349, 12389, 14678, 167, 24569, 25689, 34578, 357}
941:7	$0, 0, 0, 0, 0, \frac{4}{93}\sqrt{57}e^{12}, \frac{1}{93}\sqrt{1482}e^{13}, \frac{2}{93}\sqrt{627}e^{24}, \frac{1}{31}\sqrt{190}e^{16}$	$(-\frac{3}{31}, -\frac{1}{31}, \frac{11}{31}, \frac{12}{31}, -\frac{8}{31}, -\frac{4}{31}, \frac{8}{31}, \frac{11}{31}, -\frac{7}{31})$ $+ \frac{1}{93}\sqrt{3990}e^3 \otimes e_5 + \frac{1}{93}\sqrt{5358}e^4 \otimes e_9$	{12346, 124567, 139, 1579, 2347, 245, 3679, 569}
941:7	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{4}{39}\sqrt{10}e^{13}, \frac{20}{39}e^{24}, \frac{4}{39}\sqrt{11}e^{16}$	$(-\frac{5}{26}, \frac{8}{39}, -\frac{1}{78}, \frac{3}{13}, \frac{3}{26}, \frac{1}{78}, -\frac{8}{39}, \frac{17}{39}, -\frac{7}{39})$ $+ \frac{4}{39}\sqrt{34}e^4 \otimes e_9 + \frac{4}{39}\sqrt{35}e^2 \otimes e_7$	{123589, 12389, 145678, 14678, 25689, 2689, 34578, 3478}
941:7	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{10010}e^{12}, \frac{8}{2071}\sqrt{9730}e^{13}, \frac{16}{2071}\sqrt{2415}e^{24}, \frac{4}{2071}\sqrt{2870}e^{16}$	$(-\frac{280}{2071}, \frac{270}{2071}, \frac{452}{2071}, -\frac{378}{2071}, \frac{732}{2071}, -\frac{10}{2071}, \frac{172}{2071}, -\frac{108}{2071}, -\frac{290}{2071})$ $- \frac{20}{2071}\sqrt{1414}e^2 \otimes e_9 + \frac{24}{2071}\sqrt{1085}e^5 \otimes e_7 + \frac{8}{2071}\sqrt{14595}e^3 \otimes e_8$	{123456, 12678, 1359, 14789, 2347, 258, 3679, 45689}
941:7	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{10010}e^{12}, \frac{8}{2071}\sqrt{9730}e^{13}, \frac{16}{2071}\sqrt{2415}e^{24}, \frac{4}{2071}\sqrt{2870}e^{16}$	$(-\frac{280}{2071}, \frac{270}{2071}, \frac{452}{2071}, -\frac{378}{2071}, \frac{732}{2071}, -\frac{10}{2071}, \frac{172}{2071}, -\frac{108}{2071}, -\frac{290}{2071})$ $+ \frac{20}{2071}\sqrt{1414}e^2 \otimes e_9 + \frac{24}{2071}\sqrt{1085}e^5 \otimes e_7 + \frac{8}{2071}\sqrt{14595}e^3 \otimes e_8$	{123456, 12678, 1359, 14789, 2347, 258, 3679, 45689}
941:7	$0, 0, 0, 0, 0, \frac{2}{1817}\sqrt{121915}e^{12}, \frac{6}{1817}\sqrt{19770}e^{13}, \frac{27}{1817}\sqrt{1318}e^{24}, \frac{1}{1817}\sqrt{167386}e^{16}$	$(\frac{116}{1817}, -\frac{200}{1817}, -\frac{381}{1817}, \frac{394}{1817}, \frac{853}{1817}, -\frac{84}{1817}, -\frac{265}{1817}, \frac{194}{1817}, \frac{32}{1817})$ $+ \frac{2}{1817}\sqrt{228673}e^5 \otimes e_8 + \frac{2}{1817}\sqrt{317638}e^4 \otimes e_7$	{1234569, 126789, 1348, 157, 23789, 2459, 3567, 468}
941:7	$0, 0, 0, 0, 0, \frac{8}{3321}\sqrt{8767}e^{12}, \frac{2}{1107}\sqrt{26301}e^{13}, \frac{2}{3321}\sqrt{298078}e^{24}, \frac{2}{3321}\sqrt{306845}e^{16}$	$(-\frac{544}{3321}, \frac{649}{3321}, \frac{385}{1107}, -\frac{35}{123}, \frac{1298}{3321}, \frac{35}{1107}, \frac{611}{3321}, -\frac{296}{3321}, -\frac{439}{3321})$ $+ \frac{2}{3321}\sqrt{705345}e^2 \otimes e_4 + \frac{2}{3321}\sqrt{906986}e^3 \otimes e_9 + \frac{4}{3321}\sqrt{196062}e^5 \otimes e_8$	{12789, 13468, 2689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{1}{1577}\sqrt{5786e^{12}}, \frac{4}{1577}\sqrt{12361e^{13}}, \frac{1}{1577}\sqrt{236174e^{24}}, \frac{1}{1577}\sqrt{115194e^{16}}$	$(\frac{208}{1577}, -\frac{294}{1577}, -\frac{232}{1577}, \frac{239}{1577}, \frac{385}{1577}, -\frac{86}{1577}, -\frac{24}{1577}, -\frac{55}{1577}, \frac{122}{1577})$ $+ \frac{1}{1577}\sqrt{126766e^5} \otimes e_9 + \frac{36}{1577}\sqrt{263e^1} \otimes e_8 + \frac{8}{1577}\sqrt{4471e^4} \otimes e_7$	{123456, 179, 23578, 4689}
941:7	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{10914e^{12}}, \frac{1}{303}\sqrt{13910e^{13}}, \frac{2}{303}\sqrt{6313e^{24}}, \frac{1}{303}\sqrt{6634e^{16}}$	$(-\frac{5}{101}, -\frac{37}{303}, \frac{110}{303}, \frac{40}{303}, \frac{10}{101}, -\frac{52}{303}, \frac{95}{303}, \frac{1}{101}, -\frac{67}{303})$ $+ \frac{16}{303}\sqrt{107e^4} \otimes e_9 + \frac{1}{303}\sqrt{31030e^3} \otimes e_8$	{123456, 12346, 1359, 139, 23457, 2347, 35679, 3679}
941:7	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{345e^{12}}, \frac{2}{111}\sqrt{690e^{13}}, \frac{23}{111}\sqrt{6e^{24}}, \frac{1}{37}\sqrt{230e^{16}}$	$(-\frac{4}{37}, 0, \frac{15}{37}, \frac{12}{37}, -\frac{11}{37}, -\frac{4}{37}, \frac{11}{37}, \frac{12}{37}, -\frac{8}{37})$ $+ \frac{2}{111}\sqrt{1794e^3} \otimes e_9 + \frac{46}{111}\sqrt{3e^4} \otimes e_5$	{12346, 123568, 14789, 1579, 2347, 23578, 4689, 569}
941:7	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{86e^{12}}, \frac{3}{55}\sqrt{34e^{13}}, \frac{3}{55}\sqrt{23e^{24}}, \frac{6}{55}\sqrt{13e^{16}}$	$(\frac{9}{110}, \frac{3}{20}, -\frac{27}{110}, -\frac{39}{220}, \frac{9}{55}, \frac{51}{220}, -\frac{9}{55}, -\frac{3}{110}, \frac{69}{220})$ $+ \frac{3}{55}\sqrt{105e^1} \otimes e_3 + \frac{3}{55}\sqrt{19e^5} \otimes e_7 + \frac{3}{55}\sqrt{79e^2} \otimes e_4$	{1259, 1456, 23569, 345}
941:7	$0, 0, 0, 0, 0, \frac{6}{1463}\sqrt{8295e^{12}}, \frac{1}{1463}\sqrt{81370e^{13}}, \frac{8}{1463}\sqrt{395e^{24}}, \frac{45}{1463}\sqrt{158e^{16}}$	$(\frac{32}{1463}, \frac{64}{1463}, -\frac{33}{133}, \frac{13}{209}, \frac{523}{1463}, \frac{96}{1463}, -\frac{331}{1463}, \frac{155}{1463}, \frac{128}{1463})$ $+ \frac{1}{1463}\sqrt{465310e^1} \otimes e_3 + \frac{20}{1463}\sqrt{790e^5} \otimes e_9 + \frac{3}{1463}\sqrt{30810e^2} \otimes e_7$	{1249, 1289, 23469, 23689}
941:7	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{30290e^{12}}, \frac{1}{277}\sqrt{57318e^{13}}, \frac{2}{277}\sqrt{13281e^{24}}, \frac{3}{277}\sqrt{1398e^{16}}$	$(\frac{11}{277}, -\frac{7}{277}, \frac{154}{277}, -\frac{72}{277}, \frac{42}{277}, \frac{4}{277}, \frac{165}{277}, -\frac{79}{277}, \frac{15}{277})$ $+ \frac{1}{277}\sqrt{109510e^3} \otimes e_8$	{1234569, 123469, 1256789, 126789, 13, 135, 14578, 1478, 234579, 23479, 2589, 289, 3567, 367, 4568, 468}
941:7	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{30290e^{12}}, \frac{1}{277}\sqrt{57318e^{13}}, \frac{2}{277}\sqrt{13281e^{24}}, \frac{3}{277}\sqrt{1398e^{16}}$	$(\frac{11}{277}, -\frac{7}{277}, -\frac{81}{277}, \frac{163}{277}, \frac{42}{277}, \frac{4}{277}, -\frac{70}{277}, \frac{156}{277}, \frac{15}{277})$ $+ \frac{1}{277}\sqrt{109510e^4} \otimes e_7$	{1234569, 123469, 1256789, 126789, 13458, 1348, 157, 17, 235789, 23789, 2459, 249, 3567, 367, 4568, 468}
941:7	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{10e^{12}}, \frac{4}{39}\sqrt{3e^{13}}, \frac{4}{39}\sqrt{11e^{24}}, \frac{20}{39}e^{16}$	$(\frac{1}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{16}{39}, -\frac{1}{3}, -\frac{1}{13}, \frac{2}{13}, \frac{10}{39}, 0)$ $+ \frac{4}{39}\sqrt{34e^4} \otimes e_9 + \frac{4}{39}\sqrt{35e^1} \otimes e_5$	{12389, 12789, 13468, 14678, 2356789, 25689, 34578, 458}
941:7	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{1463e^{12}}, \frac{2}{215}\sqrt{1463e^{13}}, \frac{1}{215}\sqrt{8778e^{24}}, \frac{1}{215}\sqrt{8778e^{16}}$	$(-\frac{10}{43}, \frac{66}{215}, \frac{99}{215}, -\frac{215}{215}, -\frac{6}{215}, -\frac{67}{215}, \frac{16}{215}, \frac{49}{215}, \frac{12}{215}, -\frac{34}{215})$ $+ \frac{2}{215}\sqrt{6251e^2} \otimes e_5 + \frac{2}{215}\sqrt{6251e^3} \otimes e_9$	{12479, 12789, 134568, 1356, 2469, 2689, 34578, 357}
941:7	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{13910e^{12}}, \frac{1}{303}\sqrt{10914e^{13}}, \frac{1}{303}\sqrt{6634e^{24}}, \frac{2}{303}\sqrt{6313e^{16}}$	$(\frac{43}{303}, -\frac{22}{101}, -\frac{64}{303}, \frac{127}{303}, \frac{10}{101}, -\frac{23}{303}, -\frac{7}{101}, \frac{61}{303}, \frac{20}{303})$ $+ \frac{16}{303}\sqrt{107e^4} \otimes e_9 + \frac{1}{303}\sqrt{31030e^1} \otimes e_3$	{12589, 1289, 14568, 1468, 235689, 23689, 3458, 348}
941:7	$0, 0, 0, 0, 0, \frac{2}{1817}\sqrt{121915e^{12}}, \frac{6}{1817}\sqrt{19770e^{13}}, \frac{27}{1817}\sqrt{1318e^{24}}, \frac{1}{1817}\sqrt{167386e^{16}}$	$(\frac{116}{1817}, -\frac{200}{1817}, \frac{583}{1817}, \frac{124}{1817}, -\frac{535}{1817}, -\frac{84}{1817}, \frac{699}{1817}, -\frac{76}{1817}, \frac{32}{1817})$ $+ \frac{2}{1817}\sqrt{228673e^4} \otimes e_5 + \frac{2}{1817}\sqrt{317638e^3} \otimes e_8$	{123469, 1256789, 135, 1478, 23479, 2589, 3567, 468}
941:7	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{7030e^{12}}, \frac{1}{311}\sqrt{15170e^{13}}, \frac{1}{311}\sqrt{7770e^{24}}, \frac{1}{311}\sqrt{30710e^{16}}$	$(\frac{90}{311}, -\frac{61}{311}, -\frac{95}{311}, \frac{15}{311}, \frac{139}{311}, \frac{29}{311}, -\frac{5}{311}, -\frac{46}{311}, \frac{119}{311})$ $+ \frac{1}{311}\sqrt{38110e^5} \otimes e_8 + \frac{2}{311}\sqrt{15910e^1} \otimes e_3$	{12459, 1289, 1468, 156, 234569, 23689, 348, 35}
941:7	$0, 0, 0, 0, 0, \frac{2}{349}\sqrt{2567e^{12}}, \frac{4}{349}\sqrt{453e^{13}}, \frac{1}{349}\sqrt{31710e^{24}}, \frac{2}{349}\sqrt{5738e^{16}}$	$(-\frac{48}{349}, \frac{44}{349}, \frac{62}{349}, \frac{99}{349}, -\frac{107}{349}, -\frac{4}{349}, \frac{14}{349}, \frac{143}{349}, -\frac{52}{349})$ $+ \frac{1}{349}\sqrt{43790e^2} \otimes e_5 + \frac{2}{349}\sqrt{12533e^4} \otimes e_9$	{123789, 1289, 1345678, 14568, 23689, 26789, 3458, 4578}
941:7	$0, 0, 0, 0, 0, \frac{4}{1749}\sqrt{10005e^{12}}, \frac{1}{1749}\sqrt{321494e^{13}}, \frac{1}{1749}\sqrt{724362e^{24}}, \frac{1}{1749}\sqrt{401534e^{16}}$	$(\frac{482}{1749}, -\frac{455}{1749}, -\frac{1}{53}, \frac{90}{583}, -\frac{397}{1749}, \frac{9}{583}, \frac{449}{1749}, -\frac{185}{1749}, \frac{509}{1749})$ $+ \frac{1}{159}\sqrt{6670e^4} \otimes e_5 + \frac{4}{583}\sqrt{8671e^1} \otimes e_8$	{12349, 12479, 1356, 1567, 2356789, 25689, 3478, 48}
941:7	$0, 0, 0, 0, 0, \frac{141}{1339}\sqrt{10e^{12}}, \frac{3}{1339}\sqrt{6862e^{13}}, \frac{3}{1339}\sqrt{21902e^{24}}, \frac{12}{1339}\sqrt{893e^{16}}$	$(\frac{69}{1339}, \frac{138}{1339}, -\frac{354}{1339}, -\frac{109}{1339}, \frac{452}{1339}, \frac{207}{1339}, -\frac{285}{1339}, \frac{29}{1339}, \frac{276}{1339})$ $+ \frac{12}{1339}\sqrt{1927e^5} \otimes e_8 + \frac{27}{1339}\sqrt{470e^1} \otimes e_3 + \frac{6}{1339}\sqrt{11327e^2} \otimes e_7$	{14678, 1567, 3478, 357}
941:7	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{41e^{12}}, \frac{1}{94}\sqrt{41e^{13}}, \frac{1}{47}\sqrt{697e^{24}}, \frac{1}{94}\sqrt{1558e^{16}}$	$(-\frac{1}{94}, -\frac{33}{188}, \frac{5}{47}, \frac{45}{188}, \frac{1}{2}, -\frac{35}{188}, \frac{9}{94}, \frac{3}{47}, -\frac{37}{188})$ $+ \frac{1}{94}\sqrt{3854e^4} \otimes e_9 + \frac{5}{94}\sqrt{123e^5} \otimes e_8$	{1234567, 12456, 13579, 159, 2345, 2457, 3569, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{335}e^{12}, \frac{2}{73}\sqrt{737}e^{13}, \frac{1}{73}\sqrt{2814}e^{24}, \frac{1}{73}\sqrt{402}e^{16}$	$(-\frac{16}{73}, \frac{42}{73}, -\frac{9}{73}, -\frac{8}{73}, \frac{13}{73}, \frac{26}{73}, -\frac{25}{73}, \frac{34}{73}, \frac{10}{73})$ $+\frac{2}{73}\sqrt{2010}e^2 \otimes e_7$	{1234, 12345, 12358, 1238, 1456789, 146789, 15679, 1679, 2456, 246, 2568, 268, 345789, 34789, 3579, 379}
941:7	$0, 0, 0, 0, 0, \frac{2}{141}\sqrt{1074}e^{12}, \frac{1}{141}\sqrt{3938}e^{13}, \frac{1}{141}\sqrt{18258}e^{24}, \frac{1}{141}\sqrt{1790}e^{16}$	$(\frac{22}{141}, -\frac{13}{141}, \frac{5}{47}, -\frac{25}{141}, 1, \frac{3}{47}, \frac{37}{141}, -\frac{38}{141}, \frac{31}{141})$ $+\frac{1}{141}\sqrt{41170}e^5 \otimes e_8$	{123456, 12368, 124567, 12678, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 346789, 35679, 4689, 569}
941:7	$0, 0, 0, 0, 0, \frac{1}{184}\sqrt{830}e^{12}, \frac{1}{92}\sqrt{1743}e^{13}, \frac{3}{184}\sqrt{1162}e^{24}, \frac{1}{184}\sqrt{1245}e^{16}$	$(-\frac{5}{92}, \frac{4}{23}, -\frac{45}{368}, \frac{101}{368}, -\frac{51}{184}, \frac{11}{92}, -\frac{65}{368}, \frac{165}{368}, \frac{3}{46})$ $+\frac{1}{184}\sqrt{11703}e^2 \otimes e_5 + \frac{1}{92}\sqrt{3901}e^4 \otimes e_7$	{123469, 126789, 13458, 157, 23789, 249, 3567, 4568}
941:7	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{1}{79}\sqrt{70}e^{13}, \frac{2}{79}\sqrt{105}e^{24}, \frac{5}{79}\sqrt{42}e^{16}$	$(\frac{6}{79}, \frac{12}{79}, -\frac{29}{79}, \frac{3}{79}, \frac{9}{79}, \frac{18}{79}, -\frac{23}{79}, \frac{15}{79}, \frac{24}{79})$ $+\frac{1}{79}\sqrt{2310}e^2 \otimes e_7 + \frac{1}{79}\sqrt{2590}e^1 \otimes e_3$	{145678, 14678, 1567, 167, 34578, 3478, 357, 37}
941:7	$0, 0, 0, 0, 0, \frac{1}{1969}\sqrt{192182}e^{12}, \frac{2}{1969}\sqrt{73373}e^{13}, \frac{4}{1969}\sqrt{21183}e^{24}, \frac{2}{1969}\sqrt{34077}e^{16}$	$(\frac{131}{1969}, \frac{168}{1969}, -\frac{270}{1969}, -\frac{344}{1969}, \frac{208}{1969}, \frac{299}{1969}, -\frac{139}{1969}, -\frac{16}{179}, \frac{430}{1969})$ $+\frac{12}{1969}\sqrt{3991}e^1 \otimes e_8 + \frac{5}{1969}\sqrt{20262}e^2 \otimes e_7$	{123459, 12349, 1567, 167, 25689, 2689, 34578, 3478}
941:7	$0, 0, 0, 0, 0, \frac{3}{1819}\sqrt{52890}e^{12}, \frac{1}{1819}\sqrt{995070}e^{13}, \frac{6}{1819}\sqrt{17015}e^{24}, \frac{1}{1819}\sqrt{271830}e^{16}$	$(-\frac{55}{1819}, \frac{35}{1819}, \frac{49}{1819}, \frac{609}{1819}, -\frac{566}{1819}, -\frac{20}{1819}, -\frac{6}{1819}, \frac{644}{1819}, -\frac{75}{1819})$ $+\frac{31}{1819}\sqrt{1230}e^4 \otimes e_7 + \frac{4}{1819}\sqrt{54735}e^3 \otimes e_5$	{123469, 1256789, 1348, 157, 23789, 2459, 367, 4568}
941:7	$0, 0, 0, 0, 0, \frac{190}{4297}\sqrt{3}e^{12}, \frac{76}{4297}\sqrt{291}e^{13}, \frac{114}{4297}\sqrt{73}e^{24}, \frac{38}{4297}\sqrt{730}e^{16}$	$(\frac{77}{4297}, -\frac{360}{4297}, \frac{516}{4297}, -\frac{285}{4297}, \frac{1315}{4297}, -\frac{283}{4297}, \frac{593}{4297}, -\frac{645}{4297}, -\frac{206}{4297})$ $+\frac{114}{4297}\sqrt{186}e^1 \otimes e_8 + \frac{38}{4297}\sqrt{943}e^5 \otimes e_7 + \frac{76}{4297}\sqrt{327}e^3 \otimes e_9$	{12479, 1356, 25689, 3478}
941:7	$0, 0, 0, 0, 0, \frac{4}{1665}\sqrt{23522}e^{12}, \frac{2}{1665}\sqrt{196842}e^{13}, \frac{1}{1665}\sqrt{541006}e^{24}, \frac{1}{1665}\sqrt{75518}e^{16}$	$(-\frac{232}{1665}, \frac{28}{1665}, \frac{61}{555}, \frac{38}{111}, \frac{161}{1665}, -\frac{68}{555}, -\frac{49}{1665}, \frac{598}{1665}, -\frac{436}{1665})$ $+\frac{2}{1665}\sqrt{203651}e^3 \otimes e_9 + \frac{2}{555}\sqrt{29093}e^4 \otimes e_7$	{123456, 12346, 1579, 179, 23578, 2378, 45689, 4689}
941:7	$0, 0, 0, 0, 0, \frac{2}{1665}\sqrt{196842}e^{12}, \frac{4}{1665}\sqrt{23522}e^{13}, \frac{1}{1665}\sqrt{75518}e^{24}, \frac{1}{1665}\sqrt{541006}e^{16}$	$(\frac{238}{1665}, \frac{122}{1665}, -\frac{127}{555}, \frac{20}{333}, -\frac{497}{1665}, \frac{8}{37}, -\frac{143}{1665}, \frac{2}{15}, \frac{598}{1665})$ $+\frac{2}{1665}\sqrt{203651}e^2 \otimes e_5 + \frac{2}{555}\sqrt{29093}e^1 \otimes e_3$	{1249, 1289, 14568, 156, 23469, 23689, 3458, 35}
941:7	$0, 0, 0, 0, 0, \frac{3}{865}\sqrt{1394}e^{12}, \frac{3}{865}\sqrt{16154}e^{13}, \frac{3}{865}\sqrt{1558}e^{24}, \frac{24}{865}\sqrt{82}e^{16}$	$(-\frac{204}{865}, \frac{231}{865}, \frac{192}{865}, -\frac{138}{865}, \frac{357}{865}, \frac{27}{865}, -\frac{12}{865}, \frac{93}{865}, -\frac{177}{865})$ $+\frac{3}{865}\sqrt{15826}e^2 \otimes e_4 + \frac{3}{865}\sqrt{23206}e^5 \otimes e_7 + \frac{9}{865}\sqrt{2870}e^3 \otimes e_9$	{12789, 134568, 25689, 3478}
941:7	$0, 0, 0, 0, 0, \frac{2}{1425}\sqrt{66143}e^{12}, \frac{2}{475}\sqrt{9449}e^{13}, \frac{1}{1425}\sqrt{434654}e^{24}, \frac{1}{1425}\sqrt{283470}e^{16}$	$(-\frac{112}{475}, \frac{506}{1425}, -\frac{17}{1425}, -\frac{24}{475}, \frac{231}{475}, \frac{34}{285}, -\frac{353}{1425}, \frac{434}{1425}, -\frac{166}{1425})$ $+\frac{2}{1425}\sqrt{314394}e^2 \otimes e_7 + \frac{32}{1425}\sqrt{859}e^5 \otimes e_9$	{12349, 12389, 145678, 1567, 2469, 2689, 34578, 357}
941:7	$0, 0, 0, 0, 0, \frac{14}{499}\sqrt{30}e^{12}, \frac{2}{499}\sqrt{2478}e^{13}, \frac{3}{499}\sqrt{994}e^{24}, \frac{3}{499}\sqrt{322}e^{16}$	$(\frac{2}{499}, -\frac{44}{499}, \frac{28}{499}, \frac{51}{499}, \frac{29}{499}, -\frac{42}{499}, \frac{30}{499}, \frac{7}{499}, -\frac{40}{499})$ $+\frac{1}{499}\sqrt{9870}e^3 \otimes e_8 + \frac{1}{499}\sqrt{9870}e^4 \otimes e_7$	{1234569, 123469, 1256789, 126789, 3567, 367, 4568, 468}
941:7	$0, 0, 0, 0, 0, \frac{3}{205}\sqrt{986}e^{12}, \frac{3}{205}\sqrt{986}e^{13}, \frac{6}{205}\sqrt{17}e^{24}, \frac{6}{205}\sqrt{17}e^{16}$	$(-\frac{33}{205}, \frac{87}{205}, -\frac{6}{205}, -\frac{66}{205}, \frac{114}{205}, \frac{54}{205}, -\frac{39}{205}, \frac{21}{205}, \frac{21}{205})$ $+\frac{3}{205}\sqrt{3094}e^2 \otimes e_4 + \frac{3}{205}\sqrt{3094}e^5 \otimes e_7$	{1235, 127, 134569, 14679, 2367, 256, 3479, 459}
941:7	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{8517}e^{12}, \frac{12}{803}\sqrt{1002}e^{13}, \frac{2}{803}\sqrt{26553}e^{24}, \frac{4}{803}\sqrt{4342}e^{16}$	$(\frac{157}{803}, -\frac{114}{803}, \frac{155}{803}, -\frac{63}{803}, -\frac{179}{803}, \frac{43}{803}, \frac{312}{803}, -\frac{177}{803}, \frac{200}{803})$ $+\frac{10}{803}\sqrt{1837}e^3 \otimes e_5 + \frac{24}{803}\sqrt{501}e^1 \otimes e_8$	{12349, 124579, 136, 1567, 236789, 25689, 3478, 458}
941:7	$0, 0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{2}{803}\sqrt{8517}e^{13}, \frac{4}{803}\sqrt{4342}e^{24}, \frac{2}{803}\sqrt{26553}e^{16}$	$(\frac{102}{803}, \frac{51}{803}, \frac{45}{803}, -\frac{283}{803}, \frac{96}{803}, \frac{153}{803}, \frac{147}{803}, -\frac{232}{803}, \frac{255}{803})$ $+\frac{10}{803}\sqrt{1837}e^2 \otimes e_4 + \frac{24}{803}\sqrt{501}e^1 \otimes e_8$	{2356789, 236789, 25689, 2689, 34578, 3478, 458, 48}
941:7	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{70}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{5}{79}\sqrt{42}e^{24}, \frac{2}{79}\sqrt{105}e^{16}$	$(\frac{11}{79}, -\frac{7}{79}, \frac{22}{79}, -\frac{6}{79}, -\frac{24}{79}, \frac{4}{79}, \frac{33}{79}, -\frac{13}{79}, \frac{15}{79})$ $+\frac{1}{79}\sqrt{2310}e^1 \otimes e_5 + \frac{1}{79}\sqrt{2590}e^3 \otimes e_8$	{12349, 12789, 136, 14678, 2345679, 25689, 357, 458}
941:7	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{2290}e^{12}, \frac{1}{353}\sqrt{39846}e^{13}, \frac{2}{353}\sqrt{9389}e^{24}, \frac{1}{353}\sqrt{6870}e^{16}$	$(-\frac{25}{353}, \frac{77}{353}, \frac{154}{353}, -\frac{152}{353}, \frac{42}{353}, \frac{52}{353}, \frac{129}{353}, -\frac{75}{353}, \frac{27}{353})$ $+\frac{4}{353}\sqrt{91142}e^3 \otimes e_8 + \frac{4}{353}\sqrt{3206}e^2 \otimes e_4$	{1256789, 126789, 14578, 1478, 2589, 289, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{12}{551}\sqrt{2082}e^{12}, \frac{2}{551}\sqrt{19779}e^{13}, \frac{4}{551}\sqrt{3470}e^{24}, \frac{2}{551}\sqrt{17697}e^{16}$	$(-\frac{6}{29}, \frac{375}{551}, \frac{153}{551}, -\frac{11}{19}, \frac{96}{551}, \frac{9}{19}, \frac{39}{551}, \frac{56}{551}, \frac{147}{551})$ $+\frac{2}{551}\sqrt{157885}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 134567, 13467, 1456, 146, 23569, 2369, 25679, 2679, 34, 345, 457, 47}
941:7	$0, 0, 0, 0, 0, \frac{2}{219}\sqrt{69}e^{12}, \frac{46}{219}e^{13}, \frac{2}{219}\sqrt{1702}e^{24}, \frac{2}{219}\sqrt{506}e^{16}$	$(-\frac{8}{73}, \frac{17}{219}, -\frac{5}{219}, \frac{5}{73}, \frac{26}{73}, -\frac{7}{219}, -\frac{29}{219}, \frac{32}{219}, -\frac{31}{219})$ $+\frac{2}{219}\sqrt{1610}e^2 \otimes e_7 + \frac{2}{219}\sqrt{1633}e^4 \otimes e_9 + \frac{4}{219}\sqrt{345}e^5 \otimes e_8$	{123456, 1579, 245, 35679}
941:7	$0, 0, 0, 0, 0, \frac{2}{187}\sqrt{247}e^{12}, \frac{2}{187}\sqrt{247}e^{13}, \frac{2}{187}\sqrt{1102}e^{24}, \frac{2}{187}\sqrt{1102}e^{16}$	$(\frac{26}{187}, -\frac{3}{11}, \frac{7}{187}, \frac{39}{187}, \frac{20}{187}, -\frac{25}{187}, \frac{3}{17}, -\frac{12}{187}, \frac{1}{187})$ $+\frac{2}{187}\sqrt{1463}e^4 \otimes e_9 + \frac{6}{187}\sqrt{190}e^1 \otimes e_8$	{2356789, 236789, 25689, 2689, 34578, 3478, 458, 48}
941:7	$0, 0, 0, 0, 0, \frac{8}{3849}\sqrt{8015}e^{12}, \frac{8}{1283}\sqrt{1145}e^{13}, \frac{4}{3849}\sqrt{52670}e^{24}, \frac{20}{3849}\sqrt{1374}e^{16}$	$(\frac{37}{1283}, \frac{211}{3849}, -\frac{358}{3849}, -\frac{186}{1283}, \frac{297}{1283}, \frac{322}{3849}, -\frac{247}{3849}, -\frac{347}{3849}, \frac{433}{3849})$ $+\frac{2}{1283}\sqrt{41449}e^1 \otimes e_8 + \frac{2}{3849}\sqrt{304341}e^2 \otimes e_7 + \frac{46}{3849}\sqrt{229}e^5 \otimes e_9$	{12349, 1567, 2689, 34578}
941:7	$0, 0, 0, 0, 0, \frac{1}{770}\sqrt{135274}e^{12}, \frac{1}{770}\sqrt{64769}e^{13}, \frac{1}{385}\sqrt{5019}e^{24}, \frac{1}{385}\sqrt{21749}e^{16}$	$(\frac{81}{770}, \frac{157}{1540}, -\frac{79}{385}, -\frac{321}{1540}, \frac{157}{770}, \frac{29}{140}, -\frac{1}{10}, -\frac{41}{385}, \frac{481}{1540})$ $+\frac{1}{770}\sqrt{47083}e^5 \otimes e_8 + \frac{3}{770}\sqrt{13862}e^2 \otimes e_4 + \frac{4}{385}\sqrt{2629}e^1 \otimes e_3$	{1259, 1456, 23569, 345}
941:7	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{39846}e^{12}, \frac{1}{353}\sqrt{2290}e^{13}, \frac{1}{353}\sqrt{6870}e^{24}, \frac{2}{353}\sqrt{9389}e^{16}$	$(\frac{77}{353}, \frac{30}{353}, \frac{152}{353}, \frac{57}{353}, \frac{154}{353}, \frac{47}{353}, -\frac{75}{353}, \frac{27}{353}, \frac{124}{353})$ $+\frac{1}{353}\sqrt{91142}e^1 \otimes e_3 + \frac{4}{353}\sqrt{3206}e^5 \otimes e_7$	{124589, 1259, 1456, 1568, 2345689, 23569, 345, 358}
941:7	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{2}e^{13}, \frac{4}{11}\sqrt{3}e^{24}, \frac{4}{11}\sqrt{3}e^{16}$	$(\frac{4}{11}, -\frac{3}{11}, 0, -\frac{1}{11}, \frac{2}{11}, \frac{1}{11}, \frac{4}{11}, -\frac{4}{11}, \frac{5}{11})$ $+\frac{12}{11}e^1 \otimes e_8$	{123459, 12349, 124579, 12479, 1356, 136, 1567, 167, 2356789, 236789, 25689, 2689, 34578, 3478, 458, 48}
941:7	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{57318}e^{12}, \frac{1}{277}\sqrt{30290}e^{13}, \frac{3}{277}\sqrt{1398}e^{24}, \frac{2}{277}\sqrt{13281}e^{16}$	$(\frac{105}{277}, -\frac{54}{277}, -\frac{128}{277}, \frac{69}{277}, \frac{42}{277}, \frac{51}{277}, -\frac{23}{277}, \frac{15}{277}, \frac{156}{277})$ $+\frac{1}{277}\sqrt{109510}e^1 \otimes e_3$	{124589, 12489, 1259, 129, 1456, 146, 1568, 168, 2345689, 234689, 23569, 2369, 34, 345, 358, 38}
941:7	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{8517}e^{12}, \frac{12}{803}\sqrt{1002}e^{13}, \frac{2}{803}\sqrt{26553}e^{24}, \frac{4}{803}\sqrt{4342}e^{16}$	$(\frac{157}{803}, -\frac{114}{803}, -\frac{120}{803}, -\frac{63}{803}, \frac{371}{803}, \frac{43}{803}, \frac{37}{803}, -\frac{177}{803}, \frac{200}{803})$ $+\frac{10}{803}\sqrt{1837}e^5 \otimes e_7 + \frac{24}{803}\sqrt{501}e^1 \otimes e_8$	{123459, 12479, 1356, 167, 236789, 25689, 3478, 458}
941:7	$0, 0, 0, 0, 0, \frac{9}{337}\sqrt{446}e^{12}, \frac{4}{337}\sqrt{1115}e^{13}, \frac{1}{337}\sqrt{6690}e^{24}, \frac{5}{337}\sqrt{1338}e^{16}$	$(-\frac{80}{337}, \frac{122}{337}, \frac{76}{337}, -\frac{101}{337}, \frac{185}{337}, \frac{42}{337}, -\frac{4}{337}, \frac{21}{337}, -\frac{38}{337})$ $+\frac{1}{337}\sqrt{66454}e^5 \otimes e_9 + \frac{4}{337}\sqrt{4237}e^2 \otimes e_4$	{12379, 129, 134567, 1456, 2369, 2679, 345, 457}
941:7	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{161}e^{12}, \frac{1}{144}\sqrt{12558}e^{13}, \frac{23}{144}\sqrt{7}e^{24}, \frac{7}{144}\sqrt{230}e^{16}$	$(-\frac{79}{288}, \frac{23}{144}, \frac{35}{48}, \frac{5}{48}, \frac{53}{288}, -\frac{11}{96}, \frac{131}{288}, \frac{19}{72}, -\frac{7}{18})$ $+\frac{1}{144}\sqrt{37835}e^3 \otimes e_9$	{123456, 12346, 123568, 12368, 145789, 14789, 1579, 179, 23457, 2347, 23578, 2378, 45689, 4689, 569, 69}
941:7	$0, 0, 0, 0, 0, \frac{2}{393}\sqrt{2189}e^{12}, \frac{1}{262}\sqrt{3781}e^{13}, \frac{1}{393}\sqrt{14527}e^{24}, \frac{1}{786}\sqrt{92734}e^{16}$	$(\frac{89}{786}, -\frac{113}{524}, -\frac{55}{393}, \frac{415}{1572}, \frac{79}{262}, -\frac{161}{1572}, -\frac{7}{262}, \frac{19}{393}, \frac{17}{1572})$ $+\frac{17}{786}\sqrt{398}e^4 \otimes e_9 + \frac{1}{393}\sqrt{25870}e^1 \otimes e_3 + \frac{1}{786}\sqrt{68655}e^5 \otimes e_8$	{1289, 1468, 23689, 348}
941:7	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{1463}e^{12}, \frac{2}{215}\sqrt{1463}e^{13}, \frac{1}{215}\sqrt{8778}e^{24}, \frac{1}{215}\sqrt{8778}e^{16}$	$(\frac{44}{215}, -\frac{28}{215}, -\frac{89}{215}, \frac{88}{215}, \frac{27}{215}, \frac{16}{215}, -\frac{9}{43}, \frac{12}{43}, \frac{12}{43})$ $+\frac{2}{215}\sqrt{6251}e^1 \otimes e_3 + \frac{2}{215}\sqrt{6251}e^4 \otimes e_7$	{125789, 12789, 1567, 167, 2356789, 236789, 357, 37}
941:7	$0, 0, 0, 0, 0, \frac{14}{1849}\sqrt{530}e^{12}, \frac{22}{1849}\sqrt{1113}e^{13}, \frac{1}{1849}\sqrt{491946}e^{24}, \frac{21}{1849}\sqrt{318}e^{16}$	$(-\frac{238}{1849}, \frac{446}{1849}, \frac{313}{1849}, -\frac{504}{1849}, \frac{159}{1849}, \frac{208}{1849}, \frac{75}{1849}, -\frac{58}{1849}, -\frac{30}{1849})$ $+\frac{18}{1849}\sqrt{1855}e^2 \otimes e_7 + \frac{4}{1849}\sqrt{40810}e^3 \otimes e_8$	{1234569, 123469, 14578, 1478, 2589, 289, 3567, 367}
941:7	$0, 0, 0, 0, 0, \frac{1}{116}\sqrt{1446}e^{12}, \frac{1}{464}\sqrt{76638}e^{13}, \frac{3}{464}\sqrt{1687}e^{24}, \frac{1}{464}\sqrt{16870}e^{16}$	$(-\frac{199}{928}, \frac{63}{464}, \frac{105}{464}, \frac{15}{464}, \frac{17}{32}, -\frac{73}{928}, \frac{11}{928}, \frac{39}{232}, -\frac{17}{58})$ $+\frac{1}{464}\sqrt{104835}e^3 \otimes e_9 + \frac{5}{116}\sqrt{241}e^5 \otimes e_7$	{123456, 123568, 14789, 179, 2347, 2378, 45689, 569}
941:7	$0, 0, 0, 0, 0, \frac{3}{227}\sqrt{14}e^{12}, \frac{3}{227}\sqrt{742}e^{13}, \frac{3}{227}\sqrt{770}e^{24}, \frac{6}{227}\sqrt{35}e^{16}$	$(-\frac{42}{227}, \frac{51}{227}, \frac{30}{227}, -\frac{35}{227}, \frac{79}{227}, \frac{9}{227}, -\frac{12}{227}, \frac{16}{227}, -\frac{33}{227})$ $+\frac{3}{227}\sqrt{1190}e^2 \otimes e_7 + \frac{3}{227}\sqrt{826}e^5 \otimes e_8 + \frac{63}{227}\sqrt{2}e^3 \otimes e_9$	{123456, 12368, 14789, 1579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:7	$0, 0, 0, 0, 0, \frac{16}{1173}\sqrt{69}e^{12}, \frac{16}{1173}\sqrt{222}e^{13}, \frac{8}{1173}\sqrt{1914}e^{24},$ $\frac{8}{391}\sqrt{190}e^{16}$	$(\frac{42}{391}, -\frac{5}{23}, -\frac{38}{1173}, \frac{63}{391}, \frac{280}{1173}, -\frac{43}{391}, \frac{88}{1173}, -\frac{22}{391}, -\frac{1}{391})$ $+\frac{16}{1173}\sqrt{255}e^5 \otimes e_7 + \frac{16}{1173}\sqrt{597}e^4 \otimes e_9 + \frac{8}{391}\sqrt{330}e^1 \otimes e_8$	{236789, 25689, 3478, 458}
941:7	$0, 0, 0, 0, 0, \frac{28}{225}e^{12}, \frac{56}{225}\sqrt{5}e^{13}, \frac{28}{225}\sqrt{11}e^{24}, \frac{14}{225}\sqrt{19}e^{16}$	$(-\frac{14}{75}, \frac{88}{225}, \frac{32}{225}, -\frac{7}{75}, -\frac{22}{75}, \frac{46}{225}, -\frac{2}{45}, \frac{67}{225}, \frac{4}{225})$ $+\frac{14}{225}\sqrt{113}e^2 \otimes e_7 + \frac{14}{225}\sqrt{89}e^3 \otimes e_5$	{1234, 1238, 1456789, 15679, 2456, 2568, 34789, 379}
941:7	$0, 0, 0, 0, 0, \frac{1}{1639}\sqrt{36782}e^{12}, \frac{1}{1639}\sqrt{360186}e^{13}, \frac{2}{1639}\sqrt{97854}e^{24},$ $\frac{3}{1639}\sqrt{10410}e^{16}$	$(\frac{323}{1639}, -\frac{343}{1639}, -\frac{351}{1639}, \frac{29}{149}, \frac{168}{1639}, -\frac{20}{1639}, -\frac{28}{1639}, -\frac{24}{1639}, \frac{303}{1639})$ $+\frac{1}{1639}\sqrt{496210}e^4 \otimes e_7 + \frac{6}{1639}\sqrt{14574}e^1 \otimes e_8$	{123456, 12346, 1579, 179, 23578, 2378, 45689, 4689}
941:7	$0, 0, 0, 0, 0, \frac{9}{1937}\sqrt{5030}e^{12}, \frac{2}{1937}\sqrt{8551}e^{13}, \frac{1}{1937}\sqrt{196170}e^{24},$ $\frac{1}{1937}\sqrt{485898}e^{16}$	$(\frac{68}{1937}, \frac{34}{1937}, \frac{146}{1937}, -\frac{469}{1937}, \frac{673}{1937}, \frac{102}{1937}, \frac{214}{1937}, -\frac{435}{1937}, \frac{170}{1937})$ $+\frac{18}{1937}\sqrt{2515}e^1 \otimes e_8 + \frac{1}{1937}\sqrt{495958}e^5 \otimes e_9 + \frac{2}{1937}\sqrt{114181}e^2 \otimes e_4$	{236789, 2689, 34578, 458}
941:8	$0, 0, 0, 0, 0, \frac{2}{213}\sqrt{1515}e^{12}, \frac{6}{71}\sqrt{101}e^{13}, \frac{2}{213}\sqrt{7171}e^{45}, \frac{2}{213}\sqrt{1515}e^{16}$	$(-\frac{5}{71}, \frac{17}{71}, \frac{44}{71}, -\frac{35}{213}, -\frac{35}{213}, \frac{12}{71}, \frac{39}{71}, -\frac{70}{213}, \frac{7}{71})$ $+\frac{2}{213}\sqrt{17877}e^3 \otimes e_8$	{1234569, 12369, 1246789, 13, 1345, 1478, 234579, 2379, 2489, 34567, 367, 468}
941:8	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{6}{61}\sqrt{6}e^{13}, \frac{18}{61}\sqrt{2}e^{45}, \frac{3}{61}\sqrt{114}e^{16}$	$(\frac{8}{61}, -\frac{19}{61}, \frac{3}{61}, \frac{24}{61}, -\frac{5}{61}, -\frac{11}{61}, \frac{11}{61}, \frac{19}{61}, -\frac{3}{61})$ $+\frac{15}{61}\sqrt{6}e^1 \otimes e_2 + \frac{3}{61}\sqrt{174}e^4 \otimes e_9$	{13456, 13468, 14567, 14678, 2356789, 23679, 25689, 269}
941:8	$0, 0, 0, 0, 0, \frac{1}{162}\sqrt{442}e^{12}, \frac{1}{162}\sqrt{1599}e^{13}, \frac{1}{162}\sqrt{1105}e^{45}, \frac{1}{162}\sqrt{143}e^{16}$	$(\frac{1}{27}, -\frac{7}{162}, \frac{5}{108}, -\frac{16}{81}, \frac{53}{324}, -\frac{1}{162}, \frac{1}{12}, -\frac{11}{324}, \frac{5}{162})$ $+\frac{13}{54}e^3 \otimes e_8 + \frac{13}{54}e^5 \otimes e_7 + \frac{1}{162}\sqrt{897}e^1 \otimes e_2$	{1345, 1478, 2379, 2589}
941:8	$0, 0, 0, 0, 0, \frac{22}{4617}\sqrt{353}e^{12}, \frac{22}{4617}\sqrt{1185}e^{13}, \frac{286}{4617}\sqrt{7}e^{45},$ $\frac{22}{4617}\sqrt{709}e^{16}$	$(-\frac{1}{1539}, \frac{55}{4617}, \frac{97}{1539}, -\frac{775}{4617}, \frac{530}{4617}, \frac{52}{513}, \frac{32}{4617}, -\frac{245}{4617}, \frac{49}{4617})$ $+\frac{22}{1539}\sqrt{145}e^5 \otimes e_7 + \frac{44}{1539}\sqrt{51}e^1 \otimes e_8 + \frac{44}{4617}\sqrt{267}e^3 \otimes e_9$	{1279, 13456, 25689, 3478}
941:8	$0, 0, 0, 0, 0, \frac{2}{3673}\sqrt{92939}e^{12}, \frac{14}{3673}\sqrt{7455}e^{13}, \frac{2}{3673}\sqrt{449785}e^{45},$ $\frac{2}{3673}\sqrt{109837}e^{16}$	$(-\frac{805}{3673}, \frac{1109}{3673}, \frac{920}{3673}, -\frac{567}{3673}, \frac{493}{3673}, \frac{304}{3673}, \frac{115}{3673}, -\frac{74}{3673}, \frac{501}{3673})$ $+\frac{2}{3673}\sqrt{476126}e^2 \otimes e_7 + \frac{2}{3673}\sqrt{654549}e^3 \otimes e_8 + \frac{4}{3673}\sqrt{131705}e^5 \otimes e_9$	{1239, 15678, 24689, 3457}
941:8	$0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{4290}e^{13}, \frac{2}{243}\sqrt{2470}e^{45}, \frac{2}{243}\sqrt{754}e^{16}$	$(\frac{16}{81}, -\frac{56}{243}, -\frac{19}{81}, \frac{95}{243}, -\frac{22}{243}, -\frac{8}{243}, -\frac{1}{27}, \frac{73}{243}, \frac{40}{243})$ $+\frac{2}{243}\sqrt{5226}e^1 \otimes e_2 + \frac{52}{81}e^4 \otimes e_7$	{13459, 13489, 15789, 179, 23578, 237, 245, 248}
941:8	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{186}e^{12}, \frac{1}{33}\sqrt{186}e^{13}, \frac{1}{33}\sqrt{682}e^{45}, \frac{2}{33}\sqrt{186}e^{16}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{3}{11}, \frac{2}{3}, -\frac{5}{33}, -\frac{1}{11}, \frac{1}{11}, \frac{17}{33}, -\frac{3}{11})$ $+\frac{1}{11}\sqrt{186}e^4 \otimes e_9$	{1235789, 12379, 12589, 129, 134567, 134678, 1456, 1468, 235689, 2369, 256789, 2679, 345, 348, 457, 478}
941:8	$0, 0, 0, 0, 0, \frac{22}{1577}\sqrt{899}e^{12}, \frac{3}{1577}\sqrt{19778}e^{13}, \frac{29}{1577}\sqrt{682}e^{45},$ $\frac{2}{1577}\sqrt{128557}e^{16}$	$(-\frac{422}{1577}, \frac{583}{1577}, \frac{106}{1577}, \frac{638}{1577}, -\frac{6}{83}, \frac{161}{1577}, -\frac{316}{1577}, \frac{524}{1577}, -\frac{261}{1577})$ $+\frac{4}{1577}\sqrt{84506}e^4 \otimes e_9 + \frac{62}{1577}\sqrt{290}e^2 \otimes e_7$	{123589, 1239, 14567, 14678, 25689, 269, 3457, 3478}
941:8	$0, 0, 0, 0, 0, \frac{4}{299}\sqrt{1122}e^{12}, \frac{4}{299}\sqrt{561}e^{13}, \frac{4}{299}\sqrt{1309}e^{45}, \frac{4}{299}\sqrt{1122}e^{16}$	$(\frac{66}{299}, -\frac{24}{299}, \frac{9}{299}, \frac{33}{299}, -\frac{103}{299}, \frac{42}{299}, \frac{75}{299}, -\frac{70}{299}, \frac{108}{299})$ $+\frac{12}{299}\sqrt{357}e^1 \otimes e_8 + \frac{136}{299}e^4 \otimes e_5$	{2346789, 2356789, 24689, 25689, 3478, 3578, 48, 58}
941:8	$0, 0, 0, 0, 0, \frac{4}{253}\sqrt{91}e^{12}, \frac{14}{253}\sqrt{78}e^{13}, \frac{2}{253}\sqrt{910}e^{45}, \frac{4}{253}\sqrt{910}e^{16}$	$(-\frac{48}{253}, \frac{34}{253}, \frac{120}{253}, \frac{111}{253}, -\frac{71}{253}, -\frac{14}{253}, \frac{72}{253}, \frac{40}{253}, -\frac{62}{253})$ $+\frac{182}{253}e^4 \otimes e_5 + \frac{4}{253}\sqrt{3003}e^3 \otimes e_9$	{123468, 123568, 14789, 15789, 23478, 23578, 4689, 5689}
941:8	$0, 0, 0, 0, 0, \frac{8}{169}\sqrt{11}e^{12}, \frac{12}{169}\sqrt{2}e^{13}, \frac{4}{169}\sqrt{58}e^{45}, \frac{8}{169}\sqrt{13}e^{16}$	$(-\frac{1}{169}, \frac{11}{169}, \frac{2}{169}, -\frac{30}{169}, \frac{19}{169}, \frac{10}{169}, \frac{1}{169}, -\frac{11}{169}, \frac{9}{169})$ $+\frac{14}{169}\sqrt{5}e^5 \otimes e_9 + \frac{2}{169}\sqrt{149}e^2 \otimes e_7 + \frac{6}{169}\sqrt{41}e^1 \otimes e_8$	{1239, 14567, 24689, 3578}
941:8	$0, 0, 0, 0, 0, \frac{2}{213}\sqrt{1515}e^{12}, \frac{6}{71}\sqrt{101}e^{13}, \frac{2}{213}\sqrt{7171}e^{45}, \frac{2}{213}\sqrt{1515}e^{16}$	$(-\frac{5}{71}, \frac{17}{71}, -\frac{15}{71}, \frac{2}{3}, -\frac{35}{213}, \frac{12}{71}, -\frac{20}{71}, \frac{107}{213}, \frac{7}{71})$ $+\frac{2}{213}\sqrt{17877}e^4 \otimes e_7$	{1234569, 1234689, 1256789, 12679, 1345, 1348, 1578, 17, 235789, 2379, 2459, 2489, 35678, 367, 456, 468}
941:8	$0, 0, 0, 0, 0, \frac{7}{192}\sqrt{30}e^{12}, \frac{1}{96}\sqrt{1365}e^{13}, \frac{1}{24}\sqrt{70}e^{45}, \frac{7}{192}\sqrt{30}e^{16}$	$(-\frac{7}{64}, \frac{3}{16}, \frac{17}{128}, \frac{79}{384}, -\frac{49}{192}, \frac{5}{64}, \frac{3}{128}, -\frac{19}{384}, -\frac{1}{32})$ $+\frac{1}{192}\sqrt{6195}e^3 \otimes e_8 + \frac{1}{192}\sqrt{6195}e^4 \otimes e_7$	{1234569, 1256789, 1345, 1578, 2379, 2489, 367, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:8	$0, 0, 0, 0, 0, \frac{4}{253}\sqrt{91}e^{12}, \frac{14}{253}\sqrt{78}e^{13}, \frac{2}{253}\sqrt{910}e^{45}, \frac{4}{253}\sqrt{910}e^{16}$	$(\frac{84}{253}, -\frac{98}{253}, -\frac{12}{253}, \frac{111}{253}, -\frac{71}{253}, -\frac{14}{253}, \frac{72}{253}, \frac{40}{253}, \frac{70}{253})$ $+\frac{182}{253}e^4 \otimes e_5 + \frac{4}{253}\sqrt{3003}e^1 \otimes e_2$	{13489, 13589, 14789, 15789, 23478, 23578, 248, 258}
941:8	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{181}e^{12}, \frac{1}{146}\sqrt{2534}e^{13}, \frac{1}{219}\sqrt{13213}e^{45}, \frac{1}{219}\sqrt{5430}e^{16}$	$(-\frac{23}{146}, \frac{9}{73}, \frac{121}{292}, \frac{97}{438}, -\frac{193}{876}, -\frac{5}{146}, \frac{75}{292}, \frac{1}{876}, -\frac{14}{73})$ $+\frac{1}{146}\sqrt{7783}e^4 \otimes e_9 + \frac{1}{438}\sqrt{70590}e^3 \otimes e_8$	{123456, 124678, 139, 15789, 23457, 248, 3679, 5689}
941:8	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{1}{3}\sqrt{2}e^{45}, \frac{2}{9}\sqrt{3}e^{16}$	$(-\frac{2}{9}, \frac{1}{3}, \frac{2}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{9}, 0, 0, -\frac{1}{9})$ $+\frac{2}{9}\sqrt{6}e^2 \otimes e_8 + \frac{2}{9}\sqrt{6}e^4 \otimes e_9$	{12379, 129, 134678, 1468, 2369, 2679, 348, 478}
941:8	$0, 0, 0, 0, 0, \frac{2}{1577}\sqrt{128557}e^{12}, \frac{3}{1577}\sqrt{19778}e^{13}, \frac{29}{1577}\sqrt{682}e^{45}, \frac{22}{1577}\sqrt{899}e^{16}$	$(-\frac{422}{1577}, \frac{671}{1577}, \frac{726}{1577}, -\frac{6}{83}, -\frac{6}{83}, \frac{3}{19}, \frac{16}{83}, -\frac{12}{83}, -\frac{173}{1577})$ $+\frac{4}{1577}\sqrt{84506}e^2 \otimes e_8 + \frac{62}{1577}\sqrt{290}e^3 \otimes e_9$	{124579, 1279, 13468, 24569, 269, 3478}
941:8	$0, 0, 0, 0, 0, \frac{4}{905}\sqrt{2945}e^{12}, \frac{4}{905}\sqrt{3705}e^{13}, \frac{8}{905}\sqrt{1045}e^{45}, \frac{2}{905}\sqrt{20710}e^{16}$	$(\frac{6}{181}, -\frac{28}{905}, \frac{222}{905}, -\frac{35}{181}, \frac{3}{181}, \frac{2}{905}, \frac{252}{905}, -\frac{32}{181}, \frac{32}{905})$ $+\frac{24}{905}\sqrt{285}e^1 \otimes e_8 + \frac{2}{905}\sqrt{26790}e^3 \otimes e_9 + \frac{38}{181}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:8	$0, 0, 0, 0, 0, \frac{1}{405}\sqrt{20710}e^{12}, \frac{2}{405}\sqrt{3705}e^{13}, \frac{4}{405}\sqrt{1045}e^{45}, \frac{2}{405}\sqrt{2945}e^{16}$	$(\frac{1}{27}, \frac{16}{81}, -\frac{2}{27}, -\frac{8}{81}, -\frac{8}{81}, \frac{19}{81}, -\frac{1}{27}, -\frac{16}{81}, \frac{22}{81})$ $+\frac{4}{405}\sqrt{26790}e^2 \otimes e_7 + \frac{4}{135}\sqrt{285}e^1 \otimes e_8$	{123459, 1239, 14567, 167, 24689, 3478}
941:8	$0, 0, 0, 0, 0, \frac{10}{2809}\sqrt{5837}e^{12}, \frac{10}{2809}\sqrt{1781}e^{13}, \frac{30}{2809}\sqrt{897}e^{45}, \frac{130}{2809}\sqrt{61}e^{16}$	$(\frac{105}{2809}, -\frac{185}{2809}, -\frac{545}{2809}, \frac{210}{2809}, \frac{675}{2809}, -\frac{80}{2809}, -\frac{440}{2809}, \frac{885}{2809}, \frac{25}{2809})$ $+\frac{10}{2809}\sqrt{12298}e^1 \otimes e_3 + \frac{20}{2809}\sqrt{3354}e^5 \otimes e_9 + \frac{90}{2809}\sqrt{91}e^4 \otimes e_7$	{12489, 1456, 234689, 345}
941:8	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{910}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{1}{81}\sqrt{910}e^{45}, \frac{2}{81}\sqrt{91}e^{16}$	$(-\frac{8}{27}, \frac{61}{81}, -\frac{2}{27}, \frac{10}{81}, \frac{10}{81}, \frac{37}{81}, -\frac{10}{27}, \frac{20}{81}, \frac{13}{81})$ $+\frac{2}{81}\sqrt{3003}e^2 \otimes e_7$	{123, 12345, 12348, 145679, 146789, 1679, 2456, 2468, 26, 34579, 34789, 379}
941:8	$0, 0, 0, 0, 0, \frac{4}{1397}\sqrt{3859}e^{12}, \frac{2}{1397}\sqrt{72186}e^{13}, \frac{2}{1397}\sqrt{8626}e^{45}, \frac{4}{1397}\sqrt{16117}e^{16}$	$(\frac{108}{1397}, -\frac{346}{1397}, \frac{324}{1397}, -\frac{151}{1397}, \frac{303}{1397}, -\frac{238}{1397}, \frac{432}{1397}, \frac{152}{1397}, -\frac{130}{1397})$ $+\frac{454}{1397}e^5 \otimes e_4 + \frac{8}{1397}\sqrt{7491}e^1 \otimes e_2 + \frac{8}{1397}\sqrt{7491}e^3 \otimes e_9$	{14789, 15789, 23478, 23578}
941:8	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{501}e^{12}, \frac{2}{209}\sqrt{1002}e^{13}, \frac{2}{209}\sqrt{2338}e^{45}, \frac{4}{209}\sqrt{501}e^{16}$	$(\frac{12}{209}, \frac{30}{209}, \frac{36}{209}, \frac{195}{209}, -\frac{139}{209}, \frac{42}{209}, \frac{48}{209}, \frac{56}{209}, \frac{54}{209})$ $+\frac{334}{209}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 13468, 13568, 14678, 15678, 2346789, 2356789, 24689, 25689, 3478, 3578, 48, 58}
941:8	$0, 0, 0, 0, 0, \frac{22}{3693}\sqrt{3145}e^{12}, \frac{2}{3693}\sqrt{134717}e^{13}, \frac{2}{3693}\sqrt{211233}e^{45}, \frac{2}{3693}\sqrt{449735}e^{16}$	$(\frac{56}{3693}, \frac{112}{3693}, -\frac{758}{3693}, -\frac{181}{3693}, \frac{346}{1231}, \frac{56}{1231}, -\frac{234}{1231}, \frac{857}{3693}, \frac{224}{3693})$ $+\frac{2}{3693}\sqrt{288563}e^2 \otimes e_7 + \frac{2}{3693}\sqrt{496133}e^5 \otimes e_9 + \frac{2}{3693}\sqrt{580789}e^1 \otimes e_3$	{12489, 129, 234689, 2369}
941:8	$0, 0, 0, 0, 0, \frac{4}{295}\sqrt{247}e^{12}, \frac{2}{295}\sqrt{4290}e^{13}, \frac{2}{295}\sqrt{2470}e^{45}, \frac{2}{295}\sqrt{754}e^{16}$	$(\frac{48}{295}, -\frac{56}{295}, \frac{12}{59}, -\frac{74}{295}, \frac{6}{59}, -\frac{8}{295}, \frac{108}{295}, -\frac{44}{295}, \frac{8}{59})$ $+\frac{104}{295}e^5 \otimes e_4 + \frac{156}{295}e^3 \otimes e_8 + \frac{2}{295}\sqrt{5226}e^1 \otimes e_2$	{14789, 15789, 248, 258}
941:8	$0, 0, 0, 0, 0, \frac{130}{2809}\sqrt{61}e^{12}, \frac{10}{2809}\sqrt{1781}e^{13}, \frac{30}{2809}\sqrt{897}e^{45}, \frac{10}{2809}\sqrt{5837}e^{16}$	$(\frac{105}{2809}, \frac{503}{2809}, -\frac{545}{2809}, -\frac{357}{2809}, \frac{210}{2809}, \frac{608}{2809}, -\frac{440}{2809}, -\frac{147}{2809}, \frac{713}{2809})$ $+\frac{10}{2809}\sqrt{12298}e^1 \otimes e_3 + \frac{20}{2809}\sqrt{3354}e^2 \otimes e_8 + \frac{90}{2809}\sqrt{91}e^5 \otimes e_7$	{12459, 1568, 234569, 358}
941:8	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{186}e^{12}, \frac{1}{33}\sqrt{186}e^{13}, \frac{1}{33}\sqrt{682}e^{45}, \frac{1}{33}\sqrt{186}e^{16}$	$(-\frac{2}{11}, \frac{7}{11}, \frac{3}{11}, -\frac{5}{33}, -\frac{5}{33}, \frac{5}{11}, \frac{1}{11}, -\frac{10}{33}, \frac{3}{11})$ $+\frac{1}{11}\sqrt{186}e^2 \otimes e_8$	{1234579, 12379, 12459, 129, 134678, 1468, 234569, 2369, 245679, 2679, 348, 478}
941:8	$0, 0, 0, 0, 0, \frac{3}{134}\sqrt{29}e^{12}, \frac{5}{134}\sqrt{58}e^{13}, \frac{4}{67}\sqrt{29}e^{45}, \frac{1}{67}\sqrt{319}e^{16}$	$(\frac{7}{134}, -\frac{11}{67}, \frac{59}{268}, -\frac{41}{268}, \frac{21}{134}, -\frac{15}{134}, \frac{73}{268}, \frac{1}{268}, -\frac{4}{67})$ $+\frac{1}{134}\sqrt{2407}e^5 \otimes e_9 + \frac{1}{134}\sqrt{2494}e^3 \otimes e_8 + \frac{1}{67}\sqrt{551}e^1 \otimes e_2$	{139, 14789, 23457, 258}
941:8	$0, 0, 0, 0, 0, \frac{2}{405}\sqrt{2945}e^{12}, \frac{2}{405}\sqrt{3705}e^{13}, \frac{4}{405}\sqrt{1045}e^{45}, \frac{1}{405}\sqrt{20710}e^{16}$	$(\frac{1}{27}, -\frac{14}{405}, \frac{37}{135}, -\frac{8}{81}, -\frac{8}{81}, \frac{1}{405}, \frac{14}{45}, -\frac{16}{81}, \frac{16}{405})$ $+\frac{1}{405}\sqrt{26790}e^3 \otimes e_9 + \frac{4}{135}\sqrt{285}e^1 \otimes e_8$	{124579, 1279, 13456, 136, 24689, 3478}
941:8	$0, 0, 0, 0, 0, \frac{2}{243}\sqrt{754}e^{12}, \frac{2}{243}\sqrt{4290}e^{13}, \frac{2}{243}\sqrt{2470}e^{45}, \frac{4}{243}\sqrt{247}e^{16}$	$(-\frac{35}{162}, \frac{223}{486}, \frac{20}{81}, -\frac{22}{243}, -\frac{22}{243}, \frac{59}{243}, \frac{5}{162}, -\frac{44}{243}, \frac{13}{486})$ $+\frac{2}{243}\sqrt{5226}e^2 \otimes e_7 + \frac{32}{81}e^3 \otimes e_8$	{123, 12345, 146789, 2468, 34579, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:8	$0, 0, 0, 0, 0, \frac{4}{253}\sqrt{910}e^{12}, \frac{14}{253}\sqrt{78}e^{13}, \frac{2}{253}\sqrt{910}e^{45}, \frac{4}{253}\sqrt{91}e^{16}$	$(-\frac{48}{253}, \frac{122}{253}, -\frac{12}{253}, \frac{111}{253}, -\frac{71}{253}, \frac{74}{253}, -\frac{60}{253}, \frac{40}{253}, \frac{26}{253})$ $+\frac{182}{253}e^4 \otimes e_5 + \frac{4}{253}\sqrt{3003}e^2 \otimes e_7$	{12348, 12358, 146789, 156789, 2468, 2568, 34789, 35789}
941:8	$0, 0, 0, 0, 0, \frac{2}{3673}\sqrt{109837}e^{12}, \frac{14}{3673}\sqrt{7455}e^{13}, \frac{2}{3673}\sqrt{449785}e^{45}, \frac{2}{3673}\sqrt{92939}e^{16}$	$(-\frac{805}{3673}, \frac{1177}{3673}, \frac{561}{3673}, -\frac{567}{3673}, \frac{750}{3673}, \frac{372}{3673}, -\frac{244}{3673}, \frac{183}{3673}, -\frac{433}{3673})$ $+\frac{2}{3673}\sqrt{476126}e^3 \otimes e_9 + \frac{2}{3673}\sqrt{654549}e^5 \otimes e_7 + \frac{4}{3673}\sqrt{131705}e^2 \otimes e_8$	{1279, 13568, 24569, 3478}
941:8	$0, 0, 0, 0, 0, \frac{2}{321}\sqrt{1131}e^{12}, \frac{6}{107}\sqrt{29}e^{13}, \frac{2}{321}\sqrt{3103}e^{45}, \frac{2}{321}\sqrt{1131}e^{16}$	$(\frac{13}{107}, -\frac{1}{107}, -\frac{15}{107}, \frac{52}{321}, -\frac{71}{321}, \frac{12}{107}, -\frac{2}{107}, -\frac{19}{321}, \frac{25}{107})$ $+\frac{2}{321}\sqrt{3567}e^4 \otimes e_7 + \frac{6}{107}\sqrt{58}e^1 \otimes e_8$	{123459, 1279, 13456, 167, 2356789, 24689, 3578, 48}
941:8	$0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{4290}e^{13}, \frac{2}{243}\sqrt{2470}e^{45}, \frac{2}{243}\sqrt{754}e^{16}$	$(\frac{16}{81}, -\frac{56}{243}, \frac{20}{81}, -\frac{22}{243}, -\frac{22}{243}, -\frac{8}{243}, \frac{4}{9}, -\frac{44}{243}, \frac{40}{243})$ $+\frac{2}{243}\sqrt{5226}e^1 \otimes e_2 + \frac{52}{81}e^3 \otimes e_8$	{13459, 139, 14789, 23457, 237, 248}
941:8	$0, 0, 0, 0, 0, \frac{8}{4517}\sqrt{55387}e^{12}, \frac{2}{4517}\sqrt{405410}e^{13}, \frac{6}{4517}\sqrt{44538}e^{45}, \frac{2}{4517}\sqrt{563006}e^{16}$	$(\frac{420}{4517}, \frac{554}{4517}, -\frac{722}{4517}, -\frac{865}{4517}, \frac{277}{4517}, \frac{974}{4517}, -\frac{302}{4517}, -\frac{588}{4517}, \frac{1394}{4517})$ $+\frac{1142}{4517}e^5 \otimes e_4 + \frac{2}{4517}\sqrt{969558}e^2 \otimes e_8 + \frac{8}{4517}\sqrt{65665}e^1 \otimes e_3$	{1468, 1568, 348, 358}
941:8	$0, 0, 0, 0, 0, \frac{4}{1973}\sqrt{55387}e^{12}, \frac{1}{1973}\sqrt{405410}e^{13}, \frac{3}{1973}\sqrt{44538}e^{45}, \frac{1}{1973}\sqrt{563006}e^{16}$	$(\frac{210}{1973}, \frac{277}{1973}, -\frac{361}{1973}, -\frac{147}{1973}, -\frac{147}{1973}, \frac{487}{1973}, -\frac{151}{1973}, \frac{294}{1973}, \frac{697}{1973})$ $+\frac{1}{1973}\sqrt{969558}e^2 \otimes e_8 + \frac{4}{1973}\sqrt{65665}e^1 \otimes e_3$	{12459, 129, 1468, 234569, 2369, 348}
941:8	$0, 0, 0, 0, 0, \frac{4}{97}\sqrt{186}e^{12}, \frac{2}{97}\sqrt{186}e^{13}, \frac{2}{97}\sqrt{682}e^{45}, \frac{2}{97}\sqrt{186}e^{16}$	$(-\frac{12}{97}, \frac{42}{97}, \frac{18}{97}, \frac{21}{97}, -\frac{41}{97}, \frac{30}{97}, \frac{6}{97}, -\frac{20}{97}, \frac{18}{97})$ $+\frac{62}{97}e^4 \otimes e_5 + \frac{6}{97}\sqrt{186}e^2 \otimes e_8$	{134678, 135678, 1468, 1568, 348, 358, 478, 578}
941:8	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{9}{157}\sqrt{101}e^{13}, \frac{1}{157}\sqrt{7171}e^{45}, \frac{1}{157}\sqrt{1515}e^{16}$	$(-\frac{15}{314}, \frac{51}{314}, \frac{66}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{18}{157}, \frac{117}{314}, -\frac{35}{157}, \frac{21}{314})$ $+\frac{101}{157}e^4 \otimes e_5 + \frac{1}{157}\sqrt{17877}e^3 \otimes e_8$	{1246789, 1256789, 1478, 1578, 2489, 2589, 468, 568}
941:8	$0, 0, 0, 0, 0, \frac{2}{905}\sqrt{20710}e^{12}, \frac{4}{905}\sqrt{3705}e^{13}, \frac{8}{905}\sqrt{1045}e^{45}, \frac{4}{905}\sqrt{2945}e^{16}$	$(\frac{6}{181}, \frac{32}{181}, -\frac{12}{181}, -\frac{35}{181}, \frac{3}{181}, \frac{38}{181}, -\frac{6}{181}, -\frac{32}{181}, \frac{44}{181})$ $+\frac{24}{905}\sqrt{285}e^1 \otimes e_8 + \frac{2}{905}\sqrt{26790}e^2 \otimes e_7 + \frac{38}{181}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:8	$0, 0, 0, 0, 0, \frac{4}{231}\sqrt{1122}e^{12}, \frac{4}{231}\sqrt{561}e^{13}, \frac{4}{231}\sqrt{1309}e^{45}, \frac{4}{231}\sqrt{1122}e^{16}$	$(\frac{2}{7}, -\frac{8}{77}, \frac{3}{77}, -\frac{5}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{25}{77}, -\frac{10}{33}, \frac{36}{77})$ $+\frac{4}{77}\sqrt{357}e^1 \otimes e_8$	{123459, 1239, 124579, 1279, 13456, 136, 14567, 167, 2346789, 24689, 3478, 48}
941:8	$0, 0, 0, 0, 0, \frac{4}{4053}\sqrt{128557}e^{12}, \frac{2}{1351}\sqrt{19778}e^{13}, \frac{58}{4053}\sqrt{682}e^{45}, \frac{44}{4053}\sqrt{899}e^{16}$	$(-\frac{844}{4053}, \frac{1342}{4053}, \frac{484}{1351}, -\frac{161}{579}, \frac{671}{4053}, \frac{166}{1351}, \frac{608}{4053}, -\frac{152}{1351}, -\frac{346}{4053})$ $+\frac{124}{4053}\sqrt{290}e^3 \otimes e_9 + \frac{1798}{4053}e^5 \otimes e_4 + \frac{8}{4053}\sqrt{84506}e^2 \otimes e_8$	{13468, 13568, 3478, 3578}
941:8	$0, 0, 0, 0, 0, \frac{2}{1483}\sqrt{767}e^{12}, \frac{26}{1483}\sqrt{5}e^{13}, \frac{2}{4449}\sqrt{19279}e^{45}, \frac{2}{4449}\sqrt{12207}e^{16}$	$(\frac{41}{1483}, -\frac{45}{1483}, -\frac{63}{1483}, -\frac{40}{4449}, \frac{137}{4449}, -\frac{4}{1483}, -\frac{22}{1483}, \frac{97}{4449}, \frac{37}{1483})$ $+\frac{4}{4449}\sqrt{13611}e^4 \otimes e_7 + \frac{4}{1483}\sqrt{442}e^5 \otimes e_9 + \frac{6}{1483}\sqrt{286}e^1 \otimes e_8$	{1279, 13456, 24689, 3578}
941:8	$0, 0, 0, 0, 0, \frac{6}{397}\sqrt{437}e^{12}, \frac{3}{397}\sqrt{4922}e^{13}, \frac{3}{397}\sqrt{690}e^{45}, \frac{6}{397}\sqrt{437}e^{16}$	$(-\frac{138}{397}, \frac{183}{397}, \frac{114}{397}, \frac{30}{397}, \frac{30}{397}, \frac{45}{397}, -\frac{24}{397}, \frac{60}{397}, -\frac{93}{397})$ $+\frac{12}{397}\sqrt{506}e^2 \otimes e_7 + \frac{12}{397}\sqrt{506}e^3 \otimes e_9$	{24569, 24689, 269, 3457, 3478, 37}
941:8	$0, 0, 0, 0, 0, \frac{2}{271}\sqrt{803}e^{12}, \frac{2}{813}\sqrt{2409}e^{13}, \frac{2}{813}\sqrt{19783}e^{45}, \frac{2}{271}\sqrt{803}e^{16}$	$(-\frac{53}{271}, \frac{77}{271}, \frac{13}{271}, \frac{26}{813}, \frac{59}{813}, \frac{24}{271}, -\frac{40}{271}, \frac{85}{813}, -\frac{29}{271})$ $+\frac{10}{271}\sqrt{73}e^4 \otimes e_7 + \frac{2}{813}\sqrt{18834}e^2 \otimes e_8 + \frac{2}{813}\sqrt{18834}e^5 \otimes e_9$	{1279, 15678, 23679, 3578}
941:8	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{181}e^{12}, \frac{1}{146}\sqrt{2534}e^{13}, \frac{1}{219}\sqrt{13213}e^{45}, \frac{1}{219}\sqrt{5430}e^{16}$	$(-\frac{23}{146}, \frac{9}{73}, -\frac{9}{292}, \frac{197}{876}, \frac{97}{438}, -\frac{5}{146}, -\frac{55}{292}, \frac{391}{876}, -\frac{14}{73})$ $+\frac{1}{146}\sqrt{7783}e^5 \otimes e_9 + \frac{1}{438}\sqrt{70590}e^4 \otimes e_7$	{123456, 125678, 13489, 179, 23578, 245, 3679, 4689}
941:8	$0, 0, 0, 0, 0, \frac{2}{4277}\sqrt{930234}e^{12}, \frac{4}{4277}\sqrt{11018}e^{13}, \frac{4}{4277}\sqrt{25971}e^{45}, \frac{4}{4277}\sqrt{144021}e^{16}$	$(\frac{6}{91}, \frac{12}{91}, -\frac{1292}{4277}, -\frac{523}{4277}, \frac{1051}{4277}, \frac{18}{91}, -\frac{1010}{4277}, \frac{528}{4277}, \frac{24}{91})$ $+\frac{1574}{4277}e^5 \otimes e_4 + \frac{30}{4277}\sqrt{4722}e^2 \otimes e_7 + \frac{8}{4277}\sqrt{85783}e^1 \otimes e_3$	{12489, 12589, 234689, 235689}
941:8	$0, 0, 0, 0, 0, \frac{2}{1305}\sqrt{12091}e^{12}, \frac{2}{1305}\sqrt{47121}e^{13}, \frac{2}{1305}\sqrt{18871}e^{45}, \frac{2}{1305}\sqrt{18193}e^{16}$	$(\frac{3}{145}, -\frac{199}{1305}, \frac{9}{145}, -\frac{71}{1305}, \frac{334}{1305}, -\frac{172}{1305}, \frac{12}{145}, \frac{263}{1305}, -\frac{9}{145})$ $+\frac{2}{1305}\sqrt{45426}e^1 \otimes e_2 + \frac{2}{1305}\sqrt{45426}e^3 \otimes e_9 + \frac{2}{145}\sqrt{565}e^5 \otimes e_7$	{14789, 179, 23478, 237}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:8	$0, 0, 0, 0, 0, \frac{1}{1745}\sqrt{930234}e^{12}, \frac{2}{1745}\sqrt{11018}e^{13}, \frac{2}{1745}\sqrt{25971}e^{45}, \frac{2}{1745}\sqrt{144021}e^{16}$	$(\frac{141}{1745}, \frac{282}{1745}, -\frac{646}{1745}, \frac{132}{1745}, \frac{132}{1745}, \frac{423}{1745}, -\frac{101}{349}, \frac{264}{1745}, \frac{564}{1745}) + \frac{3}{349}\sqrt{4722}e^2 \otimes e_7 + \frac{4}{1745}\sqrt{85783}e^1 \otimes e_3$	{12459, 12489, 129, 234569, 234689, 2369}
941:8	$0, 0, 0, 0, 0, \frac{12}{1001}\sqrt{437}e^{12}, \frac{6}{1001}\sqrt{4922}e^{13}, \frac{6}{1001}\sqrt{690}e^{45}, \frac{12}{1001}\sqrt{437}e^{16}$	$(-\frac{276}{1001}, \frac{366}{1001}, \frac{228}{1001}, -\frac{21}{143}, \frac{267}{1001}, \frac{90}{1001}, -\frac{48}{1001}, \frac{120}{1001}, -\frac{186}{1001}) + \frac{24}{1001}\sqrt{506}e^2 \otimes e_7 + \frac{24}{1001}\sqrt{506}e^3 \otimes e_9 + \frac{414}{1001}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:8	$0, 0, 0, 0, 0, \frac{4}{307}\sqrt{2001}e^{12}, \frac{92}{307}\sqrt{2}e^{13}, \frac{8}{307}\sqrt{69}e^{45}, \frac{4}{307}\sqrt{2001}e^{16}$	$(\frac{87}{307}, -\frac{51}{307}, -\frac{97}{307}, \frac{116}{307}, -\frac{68}{307}, \frac{36}{307}, -\frac{10}{307}, \frac{48}{307}, \frac{123}{307}) + \frac{184}{307}e^4 \otimes e_5 + \frac{4}{307}\sqrt{4117}e^1 \otimes e_3$	{12489, 12589, 1468, 1568, 234689, 235689, 348, 358}
941:8	$0, 0, 0, 0, 0, \frac{3}{134}\sqrt{29}e^{12}, \frac{5}{134}\sqrt{58}e^{13}, \frac{4}{67}\sqrt{29}e^{45}, \frac{1}{67}\sqrt{319}e^{16}$	$(\frac{7}{134}, -\frac{11}{67}, -\frac{27}{268}, \frac{45}{268}, \frac{21}{134}, -\frac{15}{134}, -\frac{13}{268}, \frac{87}{268}, -\frac{4}{67}) + \frac{1}{134}\sqrt{2407}e^5 \otimes e_9 + \frac{1}{134}\sqrt{2494}e^4 \otimes e_7 + \frac{1}{67}\sqrt{551}e^1 \otimes e_2$	{13489, 179, 23578, 245}
941:8	$0, 0, 0, 0, 0, \frac{2}{295}\sqrt{754}e^{12}, \frac{2}{295}\sqrt{4290}e^{13}, \frac{2}{295}\sqrt{2470}e^{45}, \frac{4}{295}\sqrt{247}e^{16}$	$(-\frac{21}{118}, \frac{223}{590}, \frac{12}{59}, -\frac{74}{295}, \frac{6}{59}, \frac{3}{118}, -\frac{44}{295}, \frac{13}{590}) + \frac{104}{295}e^5 \otimes e_4 + \frac{156}{295}e^3 \otimes e_8 + \frac{2}{295}\sqrt{5226}e^2 \otimes e_7$	{146789, 156789, 2468, 2568}
941:8	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{1}{81}\sqrt{910}e^{45}, \frac{2}{81}\sqrt{910}e^{16}$	$(-\frac{8}{27}, \frac{17}{81}, \frac{20}{81}, \frac{10}{81}, \frac{10}{81}, -\frac{7}{81}, \frac{4}{9}, \frac{20}{81}, -\frac{31}{81}) + \frac{2}{81}\sqrt{3003}e^3 \otimes e_9$	{123456, 123468, 1236, 14579, 14789, 179, 23457, 23478, 237, 4569, 4689, 69}
941:8	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{583}e^{13}, \frac{2}{185}\sqrt{1749}e^{45}, \frac{2}{185}\sqrt{1749}e^{16}$	$(\frac{33}{185}, -\frac{9}{185}, -\frac{73}{185}, \frac{66}{185}, -\frac{9}{185}, \frac{24}{185}, -\frac{8}{37}, \frac{57}{185}, \frac{57}{185}) + \frac{2}{185}\sqrt{4558}e^1 \otimes e_3 + \frac{2}{37}\sqrt{159}e^4 \otimes e_7$	{125789, 1279, 15678, 167, 2356789, 23679, 3578, 37}
941:8	$0, 0, 0, 0, 0, \frac{1}{219}\sqrt{5430}e^{12}, \frac{1}{146}\sqrt{2534}e^{13}, \frac{1}{219}\sqrt{13213}e^{45}, \frac{1}{146}\sqrt{181}e^{16}$	$(-\frac{23}{146}, \frac{61}{146}, -\frac{9}{292}, \frac{197}{876}, -\frac{193}{197}, \frac{19}{73}, -\frac{55}{292}, \frac{1}{219}, \frac{15}{146}) + \frac{1}{146}\sqrt{7783}e^2 \otimes e_8 + \frac{1}{438}\sqrt{70590}e^4 \otimes e_7$	{12345, 127, 134689, 156789, 2367, 2456, 35789, 489}
941:8	$0, 0, 0, 0, 0, \frac{2}{957}\sqrt{10286}e^{12}, \frac{8}{957}\sqrt{370}e^{13}, \frac{2}{957}\sqrt{7918}e^{45}, \frac{2}{957}\sqrt{10286}e^{16}$	$(-\frac{5}{957}, \frac{27}{319}, -\frac{79}{957}, -\frac{46}{319}, \frac{5}{33}, \frac{76}{957}, -\frac{28}{319}, \frac{7}{957}, \frac{71}{957}) + \frac{2}{319}\sqrt{1295}e^1 \otimes e_3 + \frac{2}{957}\sqrt{10471}e^2 \otimes e_8 + \frac{2}{957}\sqrt{10471}e^5 \otimes e_9$	{129, 1568, 2369, 358}
941:8	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{7}{81}\sqrt{78}e^{13}, \frac{1}{81}\sqrt{910}e^{45}, \frac{2}{81}\sqrt{910}e^{16}$	$(\frac{14}{27}, -\frac{49}{81}, -\frac{2}{27}, \frac{10}{81}, \frac{10}{81}, -\frac{7}{81}, \frac{4}{9}, \frac{20}{81}, \frac{35}{81}) + \frac{2}{81}\sqrt{3003}e^1 \otimes e_2$	{13459, 13489, 139, 14579, 14789, 179, 2, 23457, 23478, 237, 245, 248}
941:8	$0, 0, 0, 0, 0, \frac{1}{1973}\sqrt{563006}e^{12}, \frac{1}{1973}\sqrt{405410}e^{13}, \frac{3}{1973}\sqrt{44538}e^{45}, \frac{4}{1973}\sqrt{55387}e^{16}$	$(\frac{210}{1973}, -\frac{289}{1973}, -\frac{361}{1973}, \frac{702}{1973}, -\frac{147}{1973}, -\frac{79}{1973}, -\frac{151}{1973}, \frac{555}{1973}, \frac{131}{1973}) + \frac{1}{1973}\sqrt{969558}e^4 \otimes e_9 + \frac{4}{1973}\sqrt{65665}e^1 \otimes e_3$	{12589, 129, 1456, 1468, 235689, 2369, 345, 348}
941:8	$0, 0, 0, 0, 0, \frac{14}{155}\sqrt{6}e^{12}, \frac{4}{155}\sqrt{238}e^{13}, \frac{12}{155}\sqrt{21}e^{45}, \frac{14}{155}\sqrt{6}e^{16}$	$(-\frac{14}{155}, \frac{26}{155}, \frac{19}{155}, -\frac{42}{155}, \frac{33}{155}, \frac{12}{155}, \frac{1}{31}, -\frac{9}{155}, -\frac{2}{155}) + \frac{14}{155}\sqrt{2}e^2 \otimes e_9 + \frac{2}{31}\sqrt{42}e^3 \otimes e_8 + \frac{2}{31}\sqrt{42}e^5 \otimes e_7$	{1234569, 1246789, 1345, 1478, 2379, 2589, 367, 568}
941:8	$0, 0, 0, 0, 0, \frac{14}{155}\sqrt{6}e^{12}, \frac{4}{155}\sqrt{238}e^{13}, \frac{12}{155}\sqrt{21}e^{45}, \frac{14}{155}\sqrt{6}e^{16}$	$(-\frac{14}{155}, \frac{26}{155}, \frac{19}{155}, -\frac{42}{155}, \frac{33}{155}, \frac{12}{155}, \frac{1}{31}, -\frac{9}{155}, -\frac{2}{155}) - \frac{14}{155}\sqrt{2}e^2 \otimes e_9 + \frac{2}{31}\sqrt{42}e^3 \otimes e_8 + \frac{2}{31}\sqrt{42}e^5 \otimes e_7$	{1234569, 1246789, 1345, 1478, 2379, 2589, 367, 568}
941:8	$0, 0, 0, 0, 0, \frac{2}{585}\sqrt{3859}e^{12}, \frac{1}{585}\sqrt{72186}e^{13}, \frac{1}{585}\sqrt{8626}e^{45}, \frac{2}{585}\sqrt{16117}e^{16}$	$(\frac{6}{65}, -\frac{173}{585}, \frac{18}{65}, \frac{38}{585}, \frac{38}{585}, -\frac{119}{585}, \frac{24}{65}, \frac{76}{585}, -\frac{1}{9}) + \frac{4}{585}\sqrt{7491}e^1 \otimes e_2 + \frac{4}{585}\sqrt{7491}e^3 \otimes e_9$	{14579, 14789, 179, 23457, 23478, 237}
941:8	$0, 0, 0, 0, 0, \frac{4}{215}\sqrt{2001}e^{12}, \frac{92}{215}\sqrt{2}e^{13}, \frac{8}{215}\sqrt{69}e^{45}, \frac{4}{215}\sqrt{2001}e^{16}$	$(\frac{87}{215}, -\frac{51}{215}, -\frac{97}{215}, \frac{24}{215}, \frac{24}{215}, \frac{36}{215}, -\frac{2}{43}, \frac{48}{215}, \frac{123}{215}) + \frac{4}{215}\sqrt{4117}e^1 \otimes e_3$	{12459, 12489, 129, 1456, 1468, 16, 234569, 234689, 2369, 3, 345, 348}
941:8	$0, 0, 0, 0, 0, \frac{1}{2157}\sqrt{216006}e^{12}, \frac{1}{2157}\sqrt{35742}e^{13}, \frac{1}{2157}\sqrt{372442}e^{45}, \frac{4}{2157}\sqrt{22533}e^{16}$	$(\frac{46}{719}, -\frac{59}{719}, \frac{57}{719}, \frac{358}{2157}, -\frac{479}{2157}, -\frac{13}{719}, \frac{103}{719}, -\frac{121}{2157}, \frac{33}{719}) + \frac{1}{719}\sqrt{48174}e^4 \otimes e_9 + \frac{4}{719}\sqrt{3885}e^1 \otimes e_8$	{1239, 1279, 13456, 14567, 2356789, 25689, 3478, 48}
941:8	$0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{4290}e^{13}, \frac{2}{243}\sqrt{2470}e^{45}, \frac{2}{243}\sqrt{754}e^{16}$	$(-\frac{35}{162}, \frac{89}{486}, \frac{29}{162}, \frac{95}{243}, -\frac{22}{243}, -\frac{23}{243}, -\frac{1}{27}, \frac{73}{243}, -\frac{121}{486}) + \frac{2}{243}\sqrt{5226}e^3 \otimes e_9 + \frac{52}{81}e^4 \otimes e_7$	{123456, 123468, 15789, 179, 23578, 237, 4569, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:9	$0, 0, 0, 0, 0, \frac{8}{17}\sqrt{2}e^{12}, \frac{8}{51}\sqrt{3}e^{13}, \frac{8}{51}\sqrt{17}e^{45}, \frac{8}{51}\sqrt{17}e^{26}$	$(-\frac{2}{17}, \frac{16}{51}, \frac{4}{17}, -\frac{8}{51}, -\frac{8}{51}, \frac{10}{51}, \frac{2}{17}, -\frac{16}{51}, \frac{26}{51})$ $+\frac{8}{51}\sqrt{42}e^2 \otimes e_8$	{1234579, 12379, 12459, 129, 1346789, 14689, 23456, 236, 24567, 267, 348, 478}
941:9	$0, 0, 0, 0, 0, \frac{20}{669}\sqrt{42}e^{12}, \frac{6}{223}\sqrt{210}e^{13}, \frac{2}{669}\sqrt{15610}e^{45}, \frac{14}{669}\sqrt{30}e^{26}$	$(-\frac{40}{223}, \frac{34}{223}, \frac{41}{223}, \frac{143}{669}, -\frac{160}{669}, -\frac{6}{223}, \frac{1}{223}, -\frac{17}{669}, \frac{28}{223})$ $+\frac{2}{669}\sqrt{21210}e^3 \otimes e_8 + \frac{2}{669}\sqrt{21210}e^4 \otimes e_7$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:9	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{57}e^{12}, \frac{1}{12}\sqrt{57}e^{13}, \frac{1}{24}\sqrt{57}e^{45}, \frac{1}{6}\sqrt{19}e^{26}$	$(-\frac{5}{16}, \frac{5}{12}, -\frac{1}{16}, \frac{1}{8}, \frac{1}{8}, \frac{5}{48}, -\frac{3}{8}, \frac{1}{4}, \frac{25}{48})$ $+\frac{1}{24}\sqrt{741}e^2 \otimes e_7$	{123459, 123489, 1239, 145679, 146789, 1679, 2456, 2468, 26, 3457, 3478, 37}
941:9	$0, 0, 0, 0, 0, \frac{16}{5019}\sqrt{885}e^{12}, \frac{8}{5019}\sqrt{1335}e^{13}, \frac{8}{5019}\sqrt{8365}e^{45}, \frac{8}{239}\sqrt{15}e^{26}$	$(-\frac{172}{1673}, \frac{120}{1673}, \frac{64}{1673}, -\frac{164}{5019}, \frac{52}{717}, -\frac{52}{1673}, -\frac{108}{1673}, \frac{200}{5019}, \frac{68}{1673})$ $+\frac{16}{5019}\sqrt{2415}e^2 \otimes e_8 + \frac{40}{5019}\sqrt{210}e^4 \otimes e_7 + \frac{8}{5019}\sqrt{7890}e^5 \otimes e_9$	{1279, 134689, 2456, 3578}
941:9	$0, 0, 0, 0, 0, \frac{16}{741}\sqrt{231}e^{12}, \frac{8}{247}\sqrt{638}e^{13}, \frac{8}{247}\sqrt{110}e^{45}, \frac{8}{741}\sqrt{5434}e^{26}$	$(-\frac{28}{247}, -\frac{70}{741}, \frac{160}{741}, \frac{30}{247}, \frac{30}{247}, -\frac{154}{741}, \frac{132}{247}, \frac{60}{247}, -\frac{224}{741})$ $+\frac{16}{741}\sqrt{3333}e^3 \otimes e_9$	{123456, 123468, 1236, 13, 1345, 1348, 2459, 2489, 29, 4569, 4689, 69}
941:9	$0, 0, 0, 0, 0, \frac{176}{1889}e^{12}, \frac{40}{5667}\sqrt{561}e^{13}, \frac{8}{5667}\sqrt{20779}e^{45}, \frac{8}{5667}\sqrt{7161}e^{26}$	$(\frac{264}{1889}, -\frac{180}{1889}, -\frac{256}{1889}, \frac{376}{5667}, \frac{64}{5667}, \frac{84}{1889}, \frac{8}{1889}, \frac{440}{5667}, -\frac{96}{1889})$ $+\frac{16}{5667}\sqrt{5379}e^1 \otimes e_8 + \frac{8}{5667}\sqrt{15906}e^5 \otimes e_9 + \frac{8}{5667}\sqrt{19338}e^4 \otimes e_7$	{1279, 1679, 235678, 3578}
941:9	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{57}e^{12}, \frac{1}{12}\sqrt{57}e^{13}, \frac{1}{6}\sqrt{19}e^{45}, \frac{1}{24}\sqrt{57}e^{26}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{16}, -\frac{7}{48}, -\frac{7}{48}, \frac{3}{8}, \frac{7}{16}, -\frac{7}{24}, \frac{1}{4})$ $+\frac{1}{24}\sqrt{741}e^1 \otimes e_8$	{123459, 1239, 124579, 1279, 134569, 1369, 145679, 1679, 234678, 2468, 3478, 48}
941:9	$0, 0, 0, 0, 0, \frac{20}{303}\sqrt{11}e^{12}, \frac{4}{303}\sqrt{858}e^{13}, \frac{4}{303}\sqrt{506}e^{45}, \frac{4}{303}\sqrt{561}e^{26}$	$(-\frac{71}{303}, \frac{77}{303}, \frac{20}{101}, -\frac{58}{303}, \frac{10}{101}, \frac{2}{101}, -\frac{11}{303}, -\frac{28}{303}, \frac{83}{303})$ $+\frac{44}{303}\sqrt{11}e^2 \otimes e_7 + \frac{4}{303}\sqrt{1166}e^3 \otimes e_8 + \frac{88}{303}e^5 \otimes e_4$	{146789, 156789, 2468, 2568}
941:9	$0, 0, 0, 0, 0, \frac{1}{624}\sqrt{14934}e^{12}, \frac{1}{208}\sqrt{5502}e^{13}, \frac{1}{156}\sqrt{3406}e^{45}, \frac{1}{208}\sqrt{655}e^{26}$	$(\frac{19}{104}, -\frac{1}{52}, -\frac{81}{416}, \frac{19}{96}, -\frac{281}{1248}, \frac{17}{104}, -\frac{5}{416}, -\frac{17}{624}, \frac{15}{104})$ $+\frac{1}{156}\sqrt{4323}e^4 \otimes e_7 + \frac{1}{208}\sqrt{8515}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 235678, 2468, 3578, 48}
941:9	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{57}e^{12}, \frac{4}{67}\sqrt{57}e^{13}, \frac{8}{67}\sqrt{19}e^{45}, \frac{2}{67}\sqrt{57}e^{26}$	$(\frac{24}{67}, -\frac{6}{67}, -\frac{3}{67}, \frac{12}{67}, -\frac{26}{67}, \frac{18}{67}, \frac{21}{67}, -\frac{14}{67}, \frac{12}{67})$ $+\frac{2}{67}\sqrt{741}e^1 \otimes e_8 + \frac{38}{67}e^4 \otimes e_5$	{234678, 235678, 2468, 2568, 3478, 3578, 48, 58}
941:9	$0, 0, 0, 0, 0, \frac{2}{271}\sqrt{3102}e^{12}, \frac{2}{271}\sqrt{1222}e^{13}, \frac{6}{271}\sqrt{47}e^{45}, \frac{8}{271}\sqrt{141}e^{26}$	$(\frac{15}{271}, \frac{30}{271}, -\frac{79}{271}, -\frac{29}{271}, \frac{65}{271}, \frac{45}{271}, -\frac{64}{271}, \frac{36}{271}, \frac{75}{271})$ $+\frac{2}{271}\sqrt{611}e^2 \otimes e_7 + \frac{8}{271}\sqrt{235}e^1 \otimes e_3 + \frac{94}{271}e^5 \otimes e_4$	{146789, 156789, 3478, 3578}
941:9	$0, 0, 0, 0, 0, \frac{16}{1093}\sqrt{231}e^{12}, \frac{24}{1093}\sqrt{638}e^{13}, \frac{24}{1093}\sqrt{110}e^{45}, \frac{8}{1093}\sqrt{5434}e^{26}$	$(-\frac{84}{1093}, -\frac{70}{1093}, \frac{480}{1093}, \frac{442}{1093}, -\frac{262}{1093}, -\frac{154}{1093}, \frac{396}{1093}, \frac{180}{1093}, -\frac{224}{1093})$ $+\frac{16}{1093}\sqrt{3333}e^3 \otimes e_9 + \frac{704}{1093}e^4 \otimes e_5$	{123468, 123568, 1348, 1358, 2489, 2589, 4689, 5689}
941:9	$0, 0, 0, 0, 0, \frac{1}{186}\sqrt{3135}e^{12}, \frac{1}{186}\sqrt{3135}e^{13}, \frac{1}{93}\sqrt{1767}e^{45}, \frac{1}{62}\sqrt{418}e^{26}$	$(\frac{55}{186}, -\frac{25}{124}, -\frac{3}{124}, \frac{37}{186}, -\frac{13}{62}, \frac{35}{372}, \frac{101}{372}, -\frac{1}{93}, -\frac{10}{93})$ $+\frac{19}{93}\sqrt{6}e^4 \otimes e_9 + \frac{1}{62}\sqrt{1102}e^1 \otimes e_8$	{1239, 1279, 1369, 1679, 234678, 2468, 3478, 48}
941:9	$0, 0, 0, 0, 0, \frac{16}{741}\sqrt{231}e^{12}, \frac{8}{247}\sqrt{638}e^{13}, \frac{8}{741}\sqrt{5434}e^{45}, \frac{8}{247}\sqrt{110}e^{26}$	$(-\frac{28}{247}, \frac{44}{247}, \frac{160}{741}, -\frac{112}{741}, -\frac{112}{741}, \frac{16}{247}, \frac{132}{247}, -\frac{224}{741}, \frac{60}{247})$ $+\frac{16}{741}\sqrt{3333}e^3 \otimes e_8$	{123456, 1236, 124678, 13, 1345, 1478, 234579, 2379, 2489, 345679, 3679, 4689}
941:9	$0, 0, 0, 0, 0, \frac{16}{741}\sqrt{231}e^{12}, \frac{8}{247}\sqrt{638}e^{13}, \frac{8}{741}\sqrt{5434}e^{45}, \frac{8}{247}\sqrt{110}e^{26}$	$(-\frac{28}{247}, \frac{44}{247}, -\frac{42}{247}, \frac{2}{3}, -\frac{112}{741}, \frac{16}{247}, -\frac{70}{247}, \frac{382}{741}, \frac{60}{247})$ $+\frac{16}{741}\sqrt{3333}e^4 \otimes e_7$	{123456, 123468, 125678, 1267, 1345, 1348, 1578, 17, 235789, 2379, 2459, 2489, 356789, 3679, 4569, 4689}
941:9	$0, 0, 0, 0, 0, \frac{16}{1093}\sqrt{231}e^{12}, \frac{24}{1093}\sqrt{638}e^{13}, \frac{8}{1093}\sqrt{5434}e^{45}, \frac{24}{1093}\sqrt{110}e^{26}$	$(-\frac{84}{1093}, \frac{132}{1093}, \frac{480}{1093}, \frac{240}{1093}, -\frac{464}{1093}, \frac{48}{1093}, \frac{396}{1093}, -\frac{224}{1093}, \frac{180}{1093})$ $+\frac{16}{1093}\sqrt{3333}e^3 \otimes e_8 + \frac{704}{1093}e^4 \otimes e_5$	{124678, 125678, 1478, 1578, 2489, 2589, 4689, 5689}
941:9	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{57}e^{12}, \frac{4}{67}\sqrt{57}e^{13}, \frac{2}{67}\sqrt{57}e^{45}, \frac{8}{67}\sqrt{19}e^{26}$	$(-\frac{15}{67}, \frac{20}{67}, -\frac{3}{67}, \frac{25}{67}, -\frac{13}{67}, \frac{5}{67}, -\frac{18}{67}, \frac{12}{67}, \frac{25}{67})$ $+\frac{2}{67}\sqrt{741}e^2 \otimes e_7 + \frac{38}{67}e^4 \otimes e_5$	{123489, 123589, 146789, 156789, 2468, 2568, 3478, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:9	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{170}e^{12}, \frac{2}{189}\sqrt{1258}e^{13}, \frac{2}{63}\sqrt{238}e^{45}, \frac{2}{189}\sqrt{1190}e^{26}$	$(-\frac{10}{189}, -\frac{8}{189}, -\frac{5}{63}, \frac{43}{189}, \frac{2}{9}, -\frac{2}{21}, -\frac{25}{189}, \frac{85}{189}, -\frac{26}{189})$ $+\frac{2}{189}\sqrt{2822}e^5 \otimes e_9 + \frac{4}{189}\sqrt{714}e^4 \otimes e_7$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:9	$0, 0, 0, 0, 0, \frac{4}{63}\sqrt{2}e^{12}, \frac{2}{63}\sqrt{34}e^{13}, \frac{2}{63}\sqrt{42}e^{45}, \frac{2}{63}\sqrt{14}e^{26}$	$(-\frac{8}{63}, \frac{2}{63}, \frac{1}{7}, \frac{5}{63}, 0, -\frac{2}{21}, \frac{1}{63}, \frac{5}{63}, -\frac{4}{63})$ $+\frac{2}{63}\sqrt{42}e^3 \otimes e_8 + \frac{2}{63}\sqrt{42}e^4 \otimes e_7 - \frac{8}{63}\sqrt{2}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:9	$0, 0, 0, 0, 0, \frac{4}{63}\sqrt{2}e^{12}, \frac{2}{63}\sqrt{34}e^{13}, \frac{2}{63}\sqrt{42}e^{45}, \frac{2}{63}\sqrt{14}e^{26}$	$(-\frac{8}{63}, \frac{2}{63}, \frac{1}{7}, \frac{5}{63}, 0, -\frac{2}{21}, \frac{1}{63}, \frac{5}{63}, -\frac{4}{63})$ $+\frac{2}{63}\sqrt{42}e^3 \otimes e_8 + \frac{2}{63}\sqrt{42}e^4 \otimes e_7 + \frac{8}{63}\sqrt{2}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:9	$0, 0, 0, 0, 0, \frac{2}{1379}\sqrt{14934}e^{12}, \frac{6}{1379}\sqrt{5502}e^{13}, \frac{6}{1379}\sqrt{655}e^{45}, \frac{8}{1379}\sqrt{3406}e^{26}$	$(-\frac{51}{197}, \frac{190}{1379}, \frac{285}{1379}, -\frac{41}{1379}, \frac{221}{1379}, -\frac{167}{1379}, -\frac{72}{1379}, \frac{180}{1379}, \frac{23}{1379})$ $+\frac{262}{1379}e^5 \otimes e_4 + \frac{6}{1379}\sqrt{8515}e^2 \otimes e_7 + \frac{8}{1379}\sqrt{4323}e^3 \otimes e_9$	{146789, 156789, 3478, 3578}
941:9	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{141}e^{12}, \frac{2}{59}\sqrt{141}e^{13}, \frac{4}{59}\sqrt{47}e^{45}, \frac{4}{59}\sqrt{47}e^{26}$	$(\frac{6}{59}, \frac{5}{59}, \frac{9}{59}, \frac{55}{59}, -\frac{39}{59}, \frac{11}{59}, \frac{15}{59}, \frac{16}{59}, \frac{16}{59})$ $+\frac{94}{59}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 134689, 135689, 146789, 156789, 234678, 235678, 2468, 2568, 3478, 3578, 48, 58}
941:9	$0, 0, 0, 0, 0, \frac{1}{168}\sqrt{5626}e^{12}, \frac{1}{168}\sqrt{485}e^{13}, \frac{1}{168}\sqrt{6790}e^{45}, \frac{1}{168}\sqrt{6790}e^{26}$	$(\frac{29}{84}, -\frac{85}{336}, -\frac{13}{56}, \frac{5}{12}, -\frac{9}{112}, \frac{31}{336}, \frac{19}{168}, \frac{113}{336}, -\frac{9}{56})$ $+\frac{1}{168}\sqrt{16199}e^4 \otimes e_9 + \frac{1}{56}\sqrt{1358}e^1 \otimes e_3$	{12589, 129, 15689, 169, 23456, 23468, 345, 348}
941:9	$0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1938}e^{12}, \frac{1}{217}\sqrt{1767}e^{13}, \frac{6}{217}\sqrt{133}e^{45}, \frac{6}{217}\sqrt{133}e^{26}$	$(\frac{9}{62}, \frac{16}{217}, -\frac{51}{434}, -\frac{7}{31}, \frac{8}{217}, \frac{95}{434}, \frac{6}{217}, -\frac{41}{217}, \frac{127}{434})$ $+\frac{19}{217}\sqrt{33}e^2 \otimes e_8 + \frac{57}{217}e^5 \otimes e_4 + \frac{5}{217}\sqrt{285}e^1 \otimes e_3$	{14689, 15689, 348, 358}
941:9	$0, 0, 0, 0, 0, \frac{168}{4087}\sqrt{55}e^{12}, \frac{12}{4087}\sqrt{1595}e^{13}, \frac{132}{4087}\sqrt{97}e^{45}, \frac{12}{4087}\sqrt{8063}e^{26}$	$(\frac{174}{4087}, \frac{486}{4087}, -\frac{618}{4087}, -\frac{654}{4087}, \frac{348}{4087}, \frac{660}{4087}, -\frac{444}{4087}, -\frac{306}{4087}, \frac{1146}{4087})$ $+\frac{12}{4087}\sqrt{11022}e^5 \otimes e_7 + \frac{12}{4087}\sqrt{19646}e^2 \otimes e_8 + \frac{12}{4087}\sqrt{9746}e^1 \otimes e_3$	{1279, 146789, 2367, 3478}
941:9	$0, 0, 0, 0, 0, \frac{5}{224}\sqrt{66}e^{12}, \frac{1}{224}\sqrt{345}e^{13}, \frac{3}{224}\sqrt{210}e^{45}, \frac{3}{224}\sqrt{210}e^{26}$	$(\frac{3}{56}, \frac{1}{448}, -\frac{3}{224}, -\frac{85}{448}, \frac{1}{8}, \frac{25}{448}, \frac{9}{224}, -\frac{29}{448}, \frac{13}{224})$ $+\frac{1}{16}\sqrt{15}e^2 \otimes e_8 + \frac{3}{224}\sqrt{235}e^5 \otimes e_9 + \frac{5}{224}\sqrt{42}e^1 \otimes e_3$	{129, 14689, 23456, 358}
941:9	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{170}e^{12}, \frac{2}{189}\sqrt{1258}e^{13}, \frac{2}{63}\sqrt{238}e^{45}, \frac{2}{189}\sqrt{1190}e^{26}$	$(-\frac{10}{189}, -\frac{8}{189}, \frac{23}{63}, \frac{2}{9}, -\frac{41}{189}, -\frac{2}{21}, \frac{59}{189}, \frac{1}{189}, -\frac{26}{189})$ $+\frac{2}{189}\sqrt{2822}e^4 \otimes e_9 + \frac{4}{189}\sqrt{714}e^3 \otimes e_8$	{123456, 124678, 1345, 1478, 2379, 2589, 3679, 5689}
941:9	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{10}e^{12}, \frac{2}{21}\sqrt{10}e^{13}, \frac{2}{21}\sqrt{70}e^{45}, \frac{2}{21}\sqrt{70}e^{26}$	$(\frac{2}{21}, -\frac{4}{21}, \frac{1}{7}, \frac{2}{3}, -\frac{1}{7}, -\frac{2}{21}, \frac{5}{21}, \frac{11}{21}, -\frac{2}{7})$ $+\frac{2}{21}\sqrt{170}e^4 \otimes e_9$	{123589, 1239, 125789, 1279, 135689, 1369, 156789, 1679, 234567, 234678, 2456, 2468, 3457, 3478, 45, 48}
941:9	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{16}{999}\sqrt{211}e^{13}, \frac{80}{333}e^{45}, \frac{16}{999}\sqrt{239}e^{26}$	$(-\frac{184}{999}, \frac{112}{999}, \frac{56}{333}, -\frac{128}{999}, \frac{56}{333}, -\frac{8}{111}, -\frac{16}{999}, \frac{40}{999}, \frac{40}{999})$ $+\frac{16}{999}\sqrt{282}e^3 \otimes e_8 + \frac{32}{111}e^2 \otimes e_7 + \frac{32}{999}\sqrt{74}e^5 \otimes e_9$	{1239, 146789, 2568, 3457}
941:9	$0, 0, 0, 0, 0, \frac{8}{239}\sqrt{798}e^{12}, \frac{4}{239}\sqrt{494}e^{13}, \frac{4}{239}\sqrt{570}e^{45}, \frac{4}{239}\sqrt{570}e^{26}$	$(\frac{168}{239}, -\frac{54}{239}, -\frac{136}{239}, \frac{30}{239}, \frac{30}{239}, \frac{114}{239}, \frac{32}{239}, \frac{60}{239}, \frac{60}{239})$ $+\frac{8}{239}\sqrt{1843}e^1 \otimes e_3$	{12459, 12489, 129, 14569, 14689, 169, 23456, 23468, 236, 3, 345, 348}
941:9	$0, 0, 0, 0, 0, \frac{2}{259}\sqrt{1357}e^{12}, \frac{2}{259}\sqrt{1357}e^{13}, \frac{4}{259}\sqrt{253}e^{45}, \frac{4}{259}\sqrt{253}e^{26}$	$(\frac{2}{37}, \frac{29}{259}, -\frac{31}{259}, -\frac{39}{259}, \frac{1}{37}, \frac{43}{259}, -\frac{17}{259}, -\frac{32}{259}, \frac{72}{259})$ $+\frac{46}{259}e^5 \otimes e_4 + \frac{4}{259}\sqrt{598}e^1 \otimes e_8 + \frac{4}{259}\sqrt{598}e^2 \otimes e_7$	{2468, 2568, 3478, 3578}
941:9	$0, 0, 0, 0, 0, \frac{4}{377}\sqrt{1938}e^{12}, \frac{2}{377}\sqrt{1767}e^{13}, \frac{12}{377}\sqrt{133}e^{45}, \frac{12}{377}\sqrt{133}e^{26}$	$(\frac{63}{377}, \frac{32}{377}, -\frac{51}{377}, -\frac{41}{377}, -\frac{41}{377}, \frac{95}{377}, \frac{12}{377}, -\frac{82}{377}, \frac{127}{377})$ $+\frac{10}{377}\sqrt{285}e^1 \otimes e_3 + \frac{38}{377}\sqrt{33}e^2 \otimes e_8$	{12459, 129, 14689, 23456, 236, 348}
941:9	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{10}e^{12}, \frac{1}{42}\sqrt{15}e^{13}, \frac{1}{21}\sqrt{35}e^{45}, \frac{1}{21}\sqrt{35}e^{26}$	$(-\frac{1}{14}, \frac{5}{84}, \frac{1}{7}, \frac{1}{6}, -\frac{19}{84}, -\frac{1}{84}, \frac{1}{14}, -\frac{5}{84}, \frac{1}{21})$ $+\frac{1}{42}\sqrt{165}e^4 \otimes e_9 + \frac{1}{42}\sqrt{210}e^2 \otimes e_8$	{12379, 129, 1356789, 15689, 23456, 24567, 348, 478}
941:9	$0, 0, 0, 0, 0, \frac{32}{5411}\sqrt{141}e^{12}, \frac{16}{5411}\sqrt{5223}e^{13}, \frac{48}{5411}\sqrt{449}e^{45}, \frac{48}{5411}\sqrt{205}e^{26}$	$(\frac{376}{5411}, -\frac{328}{5411}, \frac{104}{5411}, -\frac{872}{5411}, \frac{864}{5411}, \frac{48}{5411}, \frac{480}{5411}, -\frac{8}{5411}, -\frac{40}{773})$ $+\frac{16}{5411}\sqrt{4110}e^3 \otimes e_9 + \frac{32}{5411}\sqrt{1302}e^5 \otimes e_7 + \frac{48}{5411}\sqrt{610}e^1 \otimes e_8$	{1279, 1679, 234678, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:9	$0, 0, 0, 0, 0, \frac{1}{186}\sqrt{3135}e^{12}, \frac{1}{186}\sqrt{3135}e^{13}, \frac{1}{62}\sqrt{418}e^{45}, \frac{1}{93}\sqrt{1767}e^{26}$	$(-\frac{16}{93}, \frac{41}{372}, -\frac{3}{124}, \frac{11}{31}, -\frac{5}{93}, -\frac{23}{372}, -\frac{73}{372}, \frac{28}{93}, \frac{3}{62})$ $+\frac{19}{93}\sqrt{6}e^4 \otimes e_9 + \frac{1}{62}\sqrt{1102}e^2 \otimes e_7$	{123589, 1239, 156789, 1679, 2456, 2468, 3457, 3478}
941:9	$0, 0, 0, 0, 0, \frac{1}{624}\sqrt{14934}e^{12}, \frac{1}{208}\sqrt{5502}e^{13}, \frac{1}{208}\sqrt{655}e^{45}, \frac{1}{156}\sqrt{3406}e^{26}$	$(-\frac{119}{416}, \frac{95}{624}, \frac{95}{416}, \frac{15}{208}, \frac{15}{208}, -\frac{167}{1248}, -\frac{3}{52}, \frac{15}{104}, \frac{23}{1248})$ $+\frac{1}{156}\sqrt{4323}e^3 \otimes e_9 + \frac{1}{208}\sqrt{8515}e^2 \otimes e_7$	{145679, 146789, 1679, 3457, 3478, 37}
941:9	$0, 0, 0, 0, 0, \frac{20}{303}\sqrt{11}e^{12}, \frac{4}{303}\sqrt{858}e^{13}, \frac{4}{303}\sqrt{561}e^{45}, \frac{4}{303}\sqrt{506}e^{26}$	$(\frac{50}{303}, -\frac{13}{101}, \frac{20}{101}, -\frac{21}{101}, \frac{25}{303}, \frac{11}{303}, \frac{110}{303}, -\frac{38}{303}, -\frac{28}{303})$ $+\frac{44}{303}\sqrt{11}e^1 \otimes e_8 + \frac{4}{303}\sqrt{1166}e^3 \otimes e_9 + \frac{88}{303}e^5 \otimes e_4$	{234678, 235678, 3478, 3578}
941:9	$0, 0, 0, 0, 0, \frac{1}{118}\sqrt{1357}e^{12}, \frac{1}{118}\sqrt{1357}e^{13}, \frac{1}{59}\sqrt{253}e^{45}, \frac{1}{59}\sqrt{253}e^{26}$	$(\frac{7}{118}, \frac{29}{236}, -\frac{31}{236}, -\frac{4}{59}, -\frac{4}{59}, \frac{43}{236}, -\frac{17}{236}, -\frac{8}{59}, \frac{18}{59})$ $+\frac{1}{59}\sqrt{598}e^1 \otimes e_8 + \frac{1}{59}\sqrt{598}e^2 \otimes e_7$	{123459, 1239, 145679, 1679, 2468, 3478}
941:9	$0, 0, 0, 0, 0, \frac{1}{112}\sqrt{3102}e^{12}, \frac{1}{112}\sqrt{1222}e^{13}, \frac{3}{112}\sqrt{47}e^{45}, \frac{1}{28}\sqrt{141}e^{26}$	$(\frac{15}{224}, \frac{15}{112}, -\frac{79}{224}, \frac{9}{112}, \frac{9}{112}, \frac{45}{224}, -\frac{2}{7}, \frac{9}{56}, \frac{75}{224})$ $+\frac{1}{28}\sqrt{235}e^1 \otimes e_3 + \frac{3}{112}\sqrt{611}e^2 \otimes e_7$	{145679, 146789, 1679, 3457, 3478, 37}
941:9	$0, 0, 0, 0, 0, \frac{10}{267}\sqrt{14}e^{12}, \frac{10}{267}\sqrt{14}e^{13}, \frac{4}{267}\sqrt{105}e^{45}, \frac{4}{267}\sqrt{105}e^{26}$	$(\frac{13}{267}, \frac{1}{89}, -\frac{8}{89}, \frac{34}{267}, \frac{11}{267}, \frac{16}{267}, -\frac{11}{267}, -\frac{1}{267}, \frac{19}{267})$ $+\frac{2}{267}\sqrt{469}e^5 \otimes e_9 + \frac{2}{267}\sqrt{609}e^1 \otimes e_8 + \frac{2}{267}\sqrt{609}e^2 \otimes e_7$	{1239, 1679, 2568, 3578}
941:9	$0, 0, 0, 0, 0, \frac{20}{259}\sqrt{11}e^{12}, \frac{4}{259}\sqrt{858}e^{13}, \frac{4}{259}\sqrt{506}e^{45}, \frac{4}{259}\sqrt{506}e^{26}$	$(-\frac{71}{259}, \frac{11}{37}, \frac{60}{259}, -\frac{2}{37}, -\frac{2}{37}, \frac{6}{259}, -\frac{11}{259}, -\frac{4}{37}, \frac{83}{259})$ $+\frac{44}{259}\sqrt{11}e^2 \otimes e_7 + \frac{4}{259}\sqrt{1166}e^3 \otimes e_8$	{123459, 1239, 146789, 2468, 3457, 37}
941:9	$0, 0, 0, 0, 0, \frac{80}{4347}\sqrt{82}e^{12}, \frac{8}{4347}\sqrt{24559}e^{13}, \frac{8}{1449}\sqrt{5453}e^{45}, \frac{8}{4347}\sqrt{27839}e^{26}$	$(\frac{400}{4347}, -\frac{436}{4347}, -\frac{304}{1449}, \frac{800}{4347}, \frac{40}{207}, -\frac{4}{483}, -\frac{512}{4347}, \frac{1640}{4347}, -\frac{472}{4347})$ $+\frac{16}{1449}\sqrt{861}e^1 \otimes e_3 + \frac{8}{4347}\sqrt{63714}e^4 \otimes e_7 + \frac{8}{4347}\sqrt{65354}e^5 \otimes e_9$	{1279, 1679, 235678, 3578}
941:9	$0, 0, 0, 0, 0, \frac{20}{259}\sqrt{11}e^{12}, \frac{4}{259}\sqrt{858}e^{13}, \frac{4}{259}\sqrt{506}e^{45}, \frac{4}{259}\sqrt{506}e^{26}$	$(\frac{50}{259}, -\frac{39}{259}, \frac{60}{259}, -\frac{19}{259}, -\frac{19}{259}, \frac{11}{259}, \frac{110}{259}, -\frac{38}{259}, -\frac{4}{37})$ $+\frac{44}{259}\sqrt{11}e^1 \otimes e_8 + \frac{4}{259}\sqrt{1166}e^3 \otimes e_9$	{124579, 1279, 145679, 1679, 234678, 3478}
941:9	$0, 0, 0, 0, 0, \frac{8}{391}\sqrt{798}e^{12}, \frac{4}{391}\sqrt{494}e^{13}, \frac{4}{391}\sqrt{570}e^{45}, \frac{4}{391}\sqrt{570}e^{26}$	$(\frac{168}{391}, -\frac{54}{391}, -\frac{8}{23}, \frac{182}{391}, -\frac{122}{391}, \frac{114}{391}, \frac{32}{391}, \frac{60}{391}, \frac{60}{391})$ $+\frac{304}{391}e^4 \otimes e_5 + \frac{8}{391}\sqrt{1843}e^1 \otimes e_3$	{12489, 12589, 14689, 15689, 23468, 23568, 348, 358}
941:9	$0, 0, 0, 0, 0, \frac{4}{827}\sqrt{910}e^{12}, \frac{4}{827}\sqrt{2041}e^{13}, \frac{4}{827}\sqrt{2587}e^{45}, \frac{4}{827}\sqrt{2587}e^{26}$	$(-\frac{146}{827}, \frac{98}{827}, \frac{154}{827}, -\frac{118}{827}, \frac{112}{827}, -\frac{48}{827}, \frac{8}{827}, -\frac{6}{827}, \frac{50}{827})$ $+\frac{4}{827}\sqrt{2990}e^3 \otimes e_9 + \frac{4}{827}\sqrt{2990}e^5 \otimes e_7 + \frac{52}{827}\sqrt{22}e^2 \otimes e_8$	{1279, 146789, 2367, 3478}
941:9	$0, 0, 0, 0, 0, \frac{2}{227}\sqrt{741}e^{12}, \frac{2}{227}\sqrt{3198}e^{13}, \frac{6}{227}\sqrt{182}e^{45}, \frac{6}{227}\sqrt{182}e^{26}$	$(-\frac{38}{227}, \frac{2}{227}, \frac{44}{227}, \frac{84}{227}, -\frac{17}{227}, -\frac{36}{227}, \frac{6}{227}, \frac{67}{227}, -\frac{34}{227})$ $+\frac{2}{227}\sqrt{3939}e^3 \otimes e_9 + \frac{2}{227}\sqrt{3939}e^4 \otimes e_7$	{123456, 123468, 1345, 1348, 2459, 2489, 4569, 4689}
941:9	$0, 0, 0, 0, 0, \frac{2}{939}\sqrt{22935}e^{12}, \frac{2}{313}\sqrt{1529}e^{13}, \frac{2}{313}\sqrt{3058}e^{45}, \frac{2}{939}\sqrt{43507}e^{26}$	$(-\frac{49}{313}, \frac{116}{939}, \frac{121}{313}, -\frac{27}{313}, -\frac{27}{313}, -\frac{31}{939}, \frac{72}{313}, -\frac{54}{313}, \frac{85}{939})$ $+\frac{2}{313}\sqrt{7367}e^2 \otimes e_8 + \frac{2}{939}\sqrt{47955}e^3 \otimes e_9$	{124579, 1279, 146789, 234567, 2367, 3478}
941:9	$0, 0, 0, 0, 0, \frac{56}{4923}\sqrt{655}e^{12}, \frac{4}{4923}\sqrt{61963}e^{13}, \frac{4}{4923}\sqrt{87639}e^{45}, \frac{4}{4923}\sqrt{170693}e^{26}$	$(\frac{58}{4923}, \frac{116}{4923}, -\frac{110}{547}, -\frac{172}{4923}, \frac{446}{1641}, \frac{58}{1641}, -\frac{932}{4923}, \frac{1166}{4923}, \frac{290}{4923})$ $+\frac{4}{4923}\sqrt{197810}e^5 \otimes e_9 + \frac{4}{4923}\sqrt{249162}e^2 \otimes e_7 + \frac{52}{4923}\sqrt{786}e^1 \otimes e_3$	{146789, 1679, 3457, 3578}
941:9	$0, 0, 0, 0, 0, \frac{8}{907}\sqrt{1698}e^{12}, \frac{8}{907}\sqrt{2830}e^{13}, \frac{16}{907}\sqrt{849}e^{45}, \frac{2}{907}\sqrt{11037}e^{26}$	$(\frac{192}{907}, -\frac{18}{907}, -\frac{374}{907}, \frac{384}{907}, -\frac{75}{907}, \frac{174}{907}, -\frac{182}{907}, \frac{309}{907}, \frac{156}{907})$ $+\frac{2}{907}\sqrt{93673}e^1 \otimes e_3 + \frac{6}{907}\sqrt{14433}e^4 \otimes e_7$	{125789, 1279, 156789, 1679, 235678, 2367, 3578, 37}
941:9	$0, 0, 0, 0, 0, \frac{1}{539}\sqrt{22935}e^{12}, \frac{3}{539}\sqrt{1529}e^{13}, \frac{3}{539}\sqrt{3058}e^{45}, \frac{1}{539}\sqrt{43507}e^{26}$	$(-\frac{3}{22}, \frac{58}{539}, \frac{33}{98}, -\frac{10}{49}, \frac{29}{539}, -\frac{31}{1078}, \frac{108}{539}, -\frac{81}{539}, \frac{85}{1078})$ $+\frac{139}{539}e^5 \otimes e_4 + \frac{1}{539}\sqrt{47955}e^3 \otimes e_9 + \frac{3}{539}\sqrt{7367}e^2 \otimes e_8$	{146789, 156789, 3478, 3578}
941:9	$0, 0, 0, 0, 0, \frac{2}{939}\sqrt{22935}e^{12}, \frac{2}{313}\sqrt{1529}e^{13}, \frac{2}{939}\sqrt{43507}e^{45}, \frac{2}{313}\sqrt{3058}e^{26}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{6}{313}, \frac{149}{939}, -\frac{196}{939}, \frac{28}{313}, -\frac{43}{313}, -\frac{47}{939}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{7367}e^2 \otimes e_8 + \frac{2}{939}\sqrt{47955}e^4 \otimes e_7$	{123459, 1279, 134689, 156789, 2367, 2456, 3578, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:9	$0, 0, 0, 0, 0, \frac{24}{67}\sqrt{2}e^{12}, \frac{8}{67}\sqrt{3}e^{13}, \frac{8}{67}\sqrt{17}e^{45}, \frac{8}{67}\sqrt{17}e^{26}$	$(-\frac{6}{67}, \frac{16}{67}, \frac{12}{67}, \frac{8}{67}, -\frac{24}{67}, \frac{10}{67}, \frac{6}{67}, -\frac{16}{67}, \frac{26}{67})$ $+\frac{32}{67}e^4 \otimes e_5 + \frac{8}{67}\sqrt{42}e^2 \otimes e_8$	{1346789, 1356789, 14689, 15689, 348, 358, 478, 578}
941:10	$0, 0, 0, 0, 0, \frac{13}{415}\sqrt{22}e^{12}, \frac{13}{415}\sqrt{266}e^{34}, \frac{52}{415}\sqrt{6}e^{13} + \frac{104}{415}\sqrt{2}e^{24},$ $\frac{52}{415}\sqrt{14}e^{16}$	$(-\frac{26}{415}, -\frac{26}{415}, \frac{91}{415}, \frac{91}{415}, -\frac{78}{415}, -\frac{52}{415}, \frac{182}{415}, \frac{13}{83}, -\frac{78}{415})$ $+\frac{13}{415}\sqrt{254}e^3 \otimes e_5 + \frac{13}{415}\sqrt{478}e^4 \otimes e_9$	{123789, 13468, 25689, 4578}
941:10	$0, 0, 0, 0, 0, \frac{5}{611}\sqrt{966}e^{12}, \frac{5}{611}\sqrt{1918}e^{34}, \frac{10}{611}\sqrt{42}e^{13} + \frac{105}{611}\sqrt{2}e^{24},$ $\frac{70}{611}\sqrt{6}e^{16}$	$(-\frac{105}{611}, \frac{150}{611}, \frac{115}{611}, -\frac{140}{611}, \frac{185}{611}, \frac{45}{611}, -\frac{25}{611}, \frac{10}{611}, -\frac{60}{611})$ $+\frac{10}{611}\sqrt{714}e^3 \otimes e_9 + \frac{10}{611}\sqrt{777}e^2 \otimes e_7 + \frac{25}{611}\sqrt{70}e^5 \otimes e_8$	{1289, 13567}
941:10	$0, 0, 0, 0, 0, \frac{3}{433}\sqrt{8702}e^{12}, \frac{3}{433}\sqrt{8702}e^{34}, \frac{4}{433}\sqrt{458}e^{13} + \frac{8}{433}\sqrt{687}e^{24},$ $\frac{1}{433}\sqrt{63662}e^{16}$	$(\frac{107}{433}, -\frac{5}{433}, -\frac{117}{433}, -\frac{5}{433}, \frac{70}{433}, \frac{102}{433}, -\frac{122}{433}, -\frac{10}{433}, \frac{209}{433})$ $+\frac{11}{433}\sqrt{1374}e^1 \otimes e_7$	{13456, 1346, 1568, 168, 3578, 378, 457, 47}
941:10	$0, 0, 0, 0, 0, \frac{1}{1385}\sqrt{167034}e^{12}, \frac{2}{1385}\sqrt{31234}e^{34},$ $\frac{16}{1385}\sqrt{2037}e^{13} + \frac{1}{1385}\sqrt{175182}e^{24}, \frac{3}{1385}\sqrt{20370}e^{16}$	$(-\frac{252}{1385}, \frac{138}{1385}, \frac{313}{1385}, -\frac{77}{1385}, \frac{148}{277}, -\frac{114}{1385}, \frac{236}{1385}, \frac{61}{1385}, -\frac{366}{1385})$ $+\frac{1}{1385}\sqrt{875910}e^3 \otimes e_9 + \frac{2}{1385}\sqrt{202342}e^5 \otimes e_8$	{123456, 14789, 2378, 569}
941:10	$0, 0, 0, 0, 0, \frac{16}{2215}\sqrt{714}e^{12}, \frac{16}{2215}\sqrt{2191}e^{34},$ $\frac{16}{2215}\sqrt{1218}e^{13} + \frac{176}{2215}\sqrt{42}e^{24}, \frac{16}{2215}\sqrt{3885}e^{16}$	$(-\frac{33}{2215}, -\frac{378}{2215}, \frac{107}{2215}, \frac{452}{2215}, \frac{194}{443}, -\frac{411}{2215}, \frac{559}{2215}, \frac{74}{2215}, -\frac{444}{2215})$ $+\frac{16}{2215}\sqrt{8715}e^4 \otimes e_9 + \frac{32}{2215}\sqrt{1267}e^5 \otimes e_8$	{124567, 159, 2345, 35679}
941:10	$0, 0, 0, 0, 0, \frac{2}{157}\sqrt{3901}e^{12}, \frac{4}{157}\sqrt{83}e^{34}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{6}{157}\sqrt{415}e^{24},$ $\frac{2}{157}\sqrt{1577}e^{16}$	$(-\frac{9}{157}, \frac{65}{157}, \frac{53}{157}, -\frac{21}{157}, -\frac{101}{157}, \frac{56}{157}, \frac{32}{157}, \frac{44}{157}, \frac{47}{157})$ $+\frac{2}{157}\sqrt{10707}e^2 \otimes e_5$	{123789, 12479, 134568, 156, 23469, 2689, 357, 4578}
941:10	$0, 0, 0, 0, 0, \frac{40}{3041}\sqrt{1407}e^{12}, \frac{20}{3041}\sqrt{3486}e^{34},$ $\frac{30}{3041}\sqrt{707}e^{13} + \frac{80}{3041}\sqrt{42}e^{24}, \frac{10}{3041}\sqrt{13209}e^{16}$	$(\frac{186}{3041}, \frac{617}{3041}, -\frac{1}{3041}, -\frac{432}{3041}, -\frac{864}{3041}, \frac{803}{3041}, -\frac{433}{3041}, \frac{185}{3041}, \frac{989}{3041})$ $+\frac{10}{3041}\sqrt{30597}e^2 \otimes e_7 + \frac{60}{3041}\sqrt{714}e^1 \otimes e_5$	{234569, 25689, 357, 4578}
941:10	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{21470}e^{12}, \frac{1}{365}\sqrt{30058}e^{34}, \frac{4}{365}\sqrt{226}e^{13} + \frac{6}{365}\sqrt{113}e^{24},$ $\frac{1}{365}\sqrt{20114}e^{16}$	$(\frac{83}{365}, -\frac{33}{365}, -\frac{1}{5}, \frac{43}{365}, -\frac{14}{73}, \frac{10}{73}, -\frac{6}{73}, \frac{2}{365}, \frac{133}{365})$ $+\frac{2}{365}\sqrt{6441}e^4 \otimes e_5 + \frac{3}{365}\sqrt{5198}e^1 \otimes e_7$	{123489, 1259, 235679, 246789}
941:10	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{42}e^{12}, \frac{1}{12}\sqrt{15}e^{34}, \frac{1}{12}\sqrt{21}e^{13} + \frac{1}{8}\sqrt{10}e^{24},$ $\frac{1}{8}\sqrt{10}e^{16}$	$(-\frac{1}{16}, 0, \frac{3}{16}, \frac{1}{8}, -\frac{1}{4}, -\frac{1}{16}, \frac{5}{16}, \frac{1}{8}, -\frac{1}{8})$ $+\frac{1}{12}\sqrt{39}e^4 \otimes e_9 + \frac{1}{24}\sqrt{102}e^2 \otimes e_5$	{123789, 134568, 2689, 4578}
941:10	$0, 0, 0, 0, 0, \frac{4}{4213}\sqrt{11703}e^{12}, \frac{94}{4213}\sqrt{33}e^{34},$ $\frac{2}{4213}\sqrt{19787}e^{13} + \frac{4}{4213}\sqrt{40467}e^{24}, \frac{8}{4213}\sqrt{3713}e^{16}$	$(-\frac{133}{4213}, \frac{250}{4213}, \frac{78}{4213}, -\frac{305}{4213}, \frac{35}{383}, \frac{117}{4213}, -\frac{227}{4213}, -\frac{5}{383}, -\frac{16}{4213})$ $+\frac{2}{4213}\sqrt{101661}e^1 \otimes e_7 + \frac{6}{4213}\sqrt{8695}e^3 \otimes e_9$	{13456, 1346, 3578, 378}
941:10	$0, 0, 0, 0, 0, \frac{20}{3041}\sqrt{3486}e^{12}, \frac{40}{3041}\sqrt{1407}e^{34},$ $\frac{30}{3041}\sqrt{707}e^{13} + \frac{80}{3041}\sqrt{42}e^{24}, \frac{10}{3041}\sqrt{13209}e^{16}$	$(-\frac{630}{3041}, \frac{1025}{3041}, \frac{815}{3041}, -\frac{840}{3041}, \frac{360}{3041}, \frac{395}{3041}, -\frac{25}{3041}, \frac{185}{3041}, -\frac{235}{3041})$ $+\frac{10}{3041}\sqrt{30597}e^2 \otimes e_7 + \frac{60}{3041}\sqrt{714}e^3 \otimes e_9$	{25689, 2689, 357, 37}
941:10	$0, 0, 0, 0, 0, \frac{11}{4049}\sqrt{1830}e^{12}, \frac{11}{4049}\sqrt{3190}e^{34},$ $\frac{66}{4049}\sqrt{87}e^{13} + \frac{33}{4049}\sqrt{230}e^{24}, \frac{11}{4049}\sqrt{2658}e^{16}$	$(-\frac{297}{4049}, \frac{264}{4049}, \frac{352}{4049}, -\frac{209}{4049}, \frac{176}{4049}, -\frac{33}{4049}, \frac{143}{4049}, \frac{55}{4049}, -\frac{330}{4049})$ $+\frac{11}{4049}\sqrt{3666}e^2 \otimes e_7 + \frac{11}{4049}\sqrt{410}e^5 \otimes e_8 + \frac{44}{4049}\sqrt{255}e^4 \otimes e_9$	{25689, 4578}
941:10	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{26}e^{12}, \frac{2}{21}\sqrt{26}e^{34}, \frac{2}{21}\sqrt{39}e^{13} + \frac{2}{21}\sqrt{13}e^{24},$ $\frac{4}{21}\sqrt{26}e^{16}$	$(-\frac{1}{7}, \frac{1}{21}, \frac{5}{21}, \frac{1}{21}, 1, -\frac{2}{21}, \frac{2}{21}, -\frac{5}{21})$ $+\frac{2}{21}\sqrt{221}e^5 \otimes e_9$	{123789, 12479, 134568, 156, 23469, 2689, 357, 4578}
941:10	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{30058}e^{12}, \frac{1}{365}\sqrt{21470}e^{34}, \frac{4}{365}\sqrt{226}e^{13} + \frac{6}{365}\sqrt{113}e^{24},$ $\frac{1}{365}\sqrt{20114}e^{16}$	$(\frac{9}{73}, \frac{43}{365}, -\frac{7}{73}, -\frac{33}{365}, -\frac{14}{73}, \frac{88}{365}, -\frac{68}{365}, \frac{2}{73}, \frac{133}{365})$ $+\frac{2}{365}\sqrt{6441}e^2 \otimes e_5 + \frac{3}{365}\sqrt{5198}e^1 \otimes e_7$	{123489, 129, 23679, 246789}
941:10	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30257}e^{12}, \frac{2}{311}\sqrt{23746}e^{34},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{3}{311}\sqrt{1915}e^{24}, \frac{8}{311}\sqrt{383}e^{16}$	$(\frac{49}{622}, \frac{81}{622}, -\frac{28}{311}, -\frac{44}{311}, 1, \frac{65}{311}, -\frac{72}{311}, -\frac{7}{622}, \frac{179}{622})$ $+\frac{13}{311}\sqrt{1149}e^5 \otimes e_7$	{1234589, 1259, 13678, 1467, 23679, 246789, 345, 58}
941:10	$0, 0, 0, 0, 0, \frac{8}{97}\sqrt{6}e^{12}, \frac{2}{97}\sqrt{154}e^{34}, \frac{2}{97}\sqrt{66}e^{13} + \frac{2}{97}\sqrt{6}e^{24},$ $\frac{4}{97}\sqrt{39}e^{16}$	$(\frac{21}{194}, -\frac{15}{97}, -\frac{23}{194}, \frac{14}{97}, \frac{7}{97}, -\frac{9}{194}, \frac{5}{194}, -\frac{1}{97}, \frac{6}{97})$ $+\frac{2}{97}\sqrt{14}e^5 \otimes e_8 + \frac{2}{97}\sqrt{174}e^4 \otimes e_9 + \frac{2}{97}\sqrt{186}e^1 \otimes e_7$	{134568, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:10	$0, 0, 0, 0, 0, \frac{9}{301}\sqrt{174}e^{12}, \frac{9}{301}\sqrt{174}e^{34}, \frac{36}{301}e^{13} + \frac{18}{301}\sqrt{22}e^{24},$ $\frac{9}{301}\sqrt{206}e^{16}$	$(\frac{27}{301}, -\frac{9}{301}, -\frac{45}{301}, -\frac{9}{301}, \frac{18}{43}, \frac{18}{301}, -\frac{54}{301}, -\frac{18}{301}, \frac{45}{301})$ $+\frac{18}{301}\sqrt{46}e^5 \otimes e_9 + \frac{45}{301}\sqrt{14}e^1 \otimes e_7$	{123489, 129, 23679, 246789}
941:10	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{85}e^{12}, \frac{68}{567}\sqrt{21}e^{34}, \frac{2}{567}\sqrt{2618}e^{13} + \frac{2}{567}\sqrt{7973}e^{24},$ $\frac{4}{189}\sqrt{357}e^{16}$	$(-\frac{5}{27}, \frac{92}{567}, \frac{40}{189}, -\frac{11}{81}, \frac{281}{567}, -\frac{13}{567}, \frac{43}{567}, \frac{5}{189}, -\frac{118}{567})$ $+\frac{2}{567}\sqrt{34034}e^3 \otimes e_9 + \frac{34}{567}\sqrt{91}e^5 \otimes e_7$	{124789, 13456, 2569, 378}
941:10	$0, 0, 0, 0, 0, \frac{1}{385}\sqrt{56794}e^{12}, \frac{1}{385}\sqrt{56794}e^{34},$ $\frac{12}{385}\sqrt{778}e^{13} + \frac{1}{385}\sqrt{100362}e^{24}, \frac{2}{385}\sqrt{5835}e^{16}$	$(\frac{13}{385}, -\frac{2}{385}, -\frac{17}{385}, -\frac{2}{385}, 1, \frac{1}{35}, -\frac{19}{385}, -\frac{4}{385}, \frac{24}{385})$ $+\frac{1}{385}\sqrt{257518}e^5 \otimes e_8$	{12345679, 126789, 135, 148, 2389, 2459, 34678, 567}
941:10	$0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{129846}e^{12}, \frac{68}{1277}\sqrt{201}e^{34},$ $\frac{20}{1277}\sqrt{1139}e^{13} + \frac{7}{1277}\sqrt{6834}e^{24}, \frac{1}{1277}\sqrt{817802}e^{16}$	$(-\frac{392}{1277}, \frac{314}{1277}, \frac{669}{1277}, -\frac{37}{1277}, \frac{224}{1277}, -\frac{78}{1277}, \frac{632}{1277}, \frac{277}{1277}, -\frac{470}{1277})$ $+\frac{9}{1277}\sqrt{29614}e^3 \otimes e_9$	{1245789, 124789, 13456, 1346, 2569, 269, 3578, 378}
941:10	$0, 0, 0, 0, 0, \frac{4}{1037}\sqrt{6105}e^{12}, \frac{2}{1037}\sqrt{39738}e^{34},$ $\frac{6}{1037}\sqrt{3515}e^{13} + \frac{4}{1037}\sqrt{6882}e^{24}, \frac{16}{1037}\sqrt{222}e^{16}$	$(\frac{36}{1037}, \frac{155}{1037}, \frac{26}{1037}, -\frac{93}{1037}, -\frac{315}{1037}, \frac{191}{1037}, -\frac{67}{1037}, \frac{62}{1037}, \frac{227}{1037})$ $+\frac{4}{1037}\sqrt{14541}e^2 \otimes e_7 + \frac{6}{1037}\sqrt{5106}e^4 \otimes e_5$	{23469, 25689, 357, 478}
941:10	$0, 0, 0, 0, 0, \frac{3}{142}\sqrt{434}e^{12}, \frac{6}{71}\sqrt{42}e^{34}, \frac{9}{142}\sqrt{14}e^{13} + \frac{21}{142}\sqrt{2}e^{24},$ $\frac{3}{142}\sqrt{119}e^{16}$	$(-\frac{7}{71}, \frac{53}{142}, \frac{57}{284}, -\frac{77}{284}, -\frac{69}{284}, \frac{39}{142}, -\frac{5}{71}, \frac{29}{284}, \frac{25}{142})$ $+\frac{3}{142}\sqrt{1043}e^2 \otimes e_7 + \frac{3}{142}\sqrt{714}e^3 \otimes e_5$	{23469, 25689, 37, 4578}
941:10	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{390}e^{12}, \frac{4}{107}\sqrt{390}e^{34}, \frac{6}{107}\sqrt{143}e^{13} + \frac{4}{107}\sqrt{195}e^{24},$ $\frac{2}{107}\sqrt{663}e^{16}$	$(-\frac{6}{107}, \frac{47}{107}, \frac{11}{107}, -\frac{42}{107}, \frac{18}{107}, \frac{41}{107}, -\frac{31}{107}, \frac{5}{107}, \frac{35}{107})$ $+\frac{2}{107}\sqrt{3471}e^2 \otimes e_7$	{234569, 23469, 25689, 2689, 357, 37, 4578, 478}
941:10	$0, 0, 0, 0, 0, \frac{32}{3055}\sqrt{349}e^{12}, \frac{16}{3055}\sqrt{2282}e^{34},$ $\frac{32}{3055}\sqrt{229}e^{13} + \frac{96}{3055}\sqrt{5}e^{24}, \frac{16}{3055}\sqrt{2342}e^{16}$	$(\frac{63}{611}, -\frac{466}{3055}, -\frac{361}{3055}, \frac{84}{611}, \frac{322}{3055}, -\frac{151}{3055}, \frac{59}{3055}, -\frac{46}{3055}, \frac{164}{3055})$ $+\frac{16}{3055}\sqrt{2658}e^4 \otimes e_9 + \frac{96}{3055}\sqrt{78}e^1 \otimes e_7$	{134568, 13468, 4578, 478}
941:10	$0, 0, 0, 0, 0, \frac{10}{3629}\sqrt{5190}e^{12}, \frac{2}{3629}\sqrt{692346}e^{34},$ $\frac{2}{3629}\sqrt{513291}e^{13} + \frac{4}{3629}\sqrt{79926}e^{24}, \frac{4}{3629}\sqrt{148434}e^{16}$	$(-\frac{28}{3629}, -\frac{489}{3629}, \frac{32}{3629}, \frac{493}{3629}, \frac{1563}{3629}, -\frac{517}{3629}, \frac{525}{3629}, \frac{4}{3629}, -\frac{545}{3629})$ $+\frac{2}{3629}\sqrt{1072254}e^4 \otimes e_9 + \frac{2}{3629}\sqrt{615534}e^5 \otimes e_7$	{123789, 134568, 25689, 478}
941:10	$0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{582}e^{12}, \frac{8}{2071}\sqrt{874}e^{34}, \frac{56}{2071}\sqrt{3}e^{13} + \frac{40}{2071}\sqrt{21}e^{24},$ $\frac{8}{2071}\sqrt{699}e^{16}$	$(-\frac{60}{2071}, \frac{144}{2071}, \frac{56}{2071}, -\frac{148}{2071}, \frac{28}{2071}, \frac{84}{2071}, -\frac{92}{2071}, -\frac{4}{2071}, \frac{24}{2071})$ $+\frac{16}{2071}\sqrt{219}e^3 \otimes e_9 + \frac{8}{2071}\sqrt{1167}e^1 \otimes e_7 + \frac{8}{2071}\sqrt{173}e^5 \otimes e_8$	{1346, 3578}
941:10	$0, 0, 0, 0, 0, \frac{68}{1277}\sqrt{201}e^{12}, \frac{1}{1277}\sqrt{129846}e^{34},$ $\frac{20}{1277}\sqrt{1139}e^{13} + \frac{7}{1277}\sqrt{6834}e^{24}, \frac{1}{1277}\sqrt{817802}e^{16}$	$(\frac{310}{1277}, -\frac{37}{1277}, -\frac{33}{1277}, \frac{314}{1277}, -\frac{829}{1277}, \frac{273}{1277}, \frac{281}{1277}, \frac{277}{1277}, \frac{583}{1277})$ $+\frac{9}{1277}\sqrt{29614}e^1 \otimes e_5$	{12379, 124789, 1346, 168, 2345689, 2569, 3578, 457}
941:10	$0, 0, 0, 0, 0, \frac{4}{637}\sqrt{1786}e^{12}, \frac{4}{637}\sqrt{10199}e^{34},$ $\frac{8}{637}\sqrt{2491}e^{13} + \frac{12}{637}\sqrt{1034}e^{24}, \frac{4}{637}\sqrt{13301}e^{16}$	$(-\frac{9}{637}, -\frac{136}{637}, \frac{95}{637}, \frac{222}{637}, \frac{100}{637}, -\frac{145}{637}, \frac{317}{637}, \frac{86}{637}, -\frac{22}{91})$ $+\frac{4}{637}\sqrt{25239}e^4 \otimes e_9$	{1235789, 123789, 134568, 13468, 25689, 2689, 4578, 478}
941:10	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{4558}e^{12}, \frac{1}{223}\sqrt{6794}e^{34}, \frac{2}{223}\sqrt{731}e^{13} + \frac{4}{223}\sqrt{258}e^{24},$ $\frac{1}{223}\sqrt{3182}e^{16}$	$(\frac{21}{223}, \frac{17}{223}, -\frac{13}{223}, -\frac{9}{223}, -\frac{56}{223}, \frac{38}{223}, -\frac{22}{223}, \frac{8}{223}, \frac{59}{223})$ $+\frac{1}{223}\sqrt{10578}e^1 \otimes e_7 + \frac{2}{223}\sqrt{1677}e^3 \otimes e_5$	{1346, 1568, 378, 457}
941:10	$0, 0, 0, 0, 0, \frac{5}{179}\sqrt{182}e^{12}, \frac{5}{179}\sqrt{182}e^{34}, \frac{2}{179}\sqrt{273}e^{13} + \frac{3}{179}\sqrt{910}e^{24},$ $\frac{3}{179}\sqrt{182}e^{16}$	$(-\frac{7}{179}, \frac{44}{179}, \frac{2}{179}, -\frac{49}{179}, \frac{86}{179}, \frac{37}{179}, -\frac{47}{179}, -\frac{5}{179}, \frac{30}{179})$ $+\frac{13}{179}\sqrt{70}e^5 \otimes e_8 + \frac{1}{179}\sqrt{16926}e^2 \otimes e_7$	{234569, 2689, 357, 478}
941:10	$0, 0, 0, 0, 0, \frac{28}{227}\sqrt{15}e^{12}, \frac{28}{227}\sqrt{15}e^{34}, \frac{14}{227}\sqrt{59}e^{13} + \frac{14}{227}\sqrt{30}e^{24},$ $\frac{42}{227}\sqrt{6}e^{16}$	$(-\frac{28}{227}, \frac{61}{227}, \frac{26}{227}, -\frac{63}{227}, \frac{103}{227}, \frac{33}{227}, -\frac{37}{227}, -\frac{2}{227}, \frac{5}{227})$ $+\frac{28}{227}\sqrt{19}e^5 \otimes e_9 + \frac{28}{227}\sqrt{31}e^2 \otimes e_7$	{23469, 2689, 357, 4578}
941:10	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{2}{157}\sqrt{3901}e^{34}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{6}{157}\sqrt{415}e^{24},$ $\frac{2}{157}\sqrt{1577}e^{16}$	$(\frac{34}{157}, -\frac{21}{157}, \frac{10}{157}, \frac{65}{157}, -\frac{101}{157}, \frac{13}{157}, \frac{75}{157}, \frac{44}{157}, \frac{47}{157})$ $+\frac{2}{157}\sqrt{10707}e^4 \otimes e_5$	{1235789, 12479, 13468, 156, 23469, 25689, 357, 478}
941:10	$0, 0, 0, 0, 0, \frac{32}{581}\sqrt{65}e^{12}, \frac{32}{581}\sqrt{65}e^{34}, \frac{144}{581}\sqrt{2}e^{13} + \frac{16}{581}\sqrt{78}e^{24},$ $\frac{48}{581}\sqrt{26}e^{16}$	$(\frac{104}{581}, -\frac{16}{581}, -\frac{136}{581}, -\frac{16}{581}, \frac{32}{83}, \frac{88}{581}, -\frac{152}{581}, -\frac{32}{581}, \frac{192}{581})$ $+\frac{16}{581}\sqrt{298}e^5 \otimes e_8 + \frac{16}{581}\sqrt{714}e^1 \otimes e_7$	{13456, 168, 378, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:10	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638e^{12}}, \frac{26}{1211}\sqrt{1319e^{34}},$ $\frac{1}{1211}\sqrt{962870e^{13}} + \frac{4}{1211}\sqrt{27699e^{24}}, \frac{1}{1211}\sqrt{145090e^{16}}$	$(-\frac{111}{1211}, \frac{367}{1211}, \frac{508}{1211}, \frac{30}{1211}, -\frac{811}{1211}, \frac{256}{1211}, \frac{538}{1211}, \frac{397}{1211}, \frac{145}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^3} \otimes e_5$	{1237, 124578, 13469, 15689, 23468, 256, 3789, 4579}
941:10	$0, 0, 0, 0, 0, \frac{2}{2677}\sqrt{310541e^{12}}, \frac{44}{2677}\sqrt{763e^{34}},$ $\frac{2}{2677}\sqrt{8393e^{13}} + \frac{2}{2677}\sqrt{125895e^{24}}, \frac{14}{2677}\sqrt{8393e^{16}}$	$(-\frac{609}{2677}, \frac{825}{2677}, \frac{1133}{2677}, -\frac{301}{2677}, -\frac{701}{2677}, \frac{216}{2677}, \frac{832}{2677}, \frac{524}{2677}, -\frac{393}{2677})$ $+ \frac{2}{2677}\sqrt{800387e^2} \otimes e_5 + \frac{32}{2677}\sqrt{3815e^3} \otimes e_9$	{1289, 13567, 24679, 3458}
941:10	$0, 0, 0, 0, 0, \frac{12}{3869}\sqrt{1365e^{12}}, \frac{420}{3869}\sqrt{2e^{34}},$ $\frac{18}{3869}\sqrt{1043e^{13}} + \frac{6}{3869}\sqrt{7070e^{24}}, \frac{24}{3869}\sqrt{518e^{16}}$	$(-\frac{272}{3869}, \frac{3}{53}, \frac{4}{53}, -\frac{199}{3869}, \frac{351}{3869}, -\frac{1}{73}, \frac{93}{3869}, \frac{20}{3869}, -\frac{325}{3869})$ $+ \frac{12}{3869}\sqrt{3255e^4} \otimes e_9 + \frac{6}{3869}\sqrt{11606e^2} \otimes e_7$	{25689, 2689, 4578, 478}
941:10	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5e^{12}}, \frac{4}{29}\sqrt{5e^{34}}, \frac{4}{29}\sqrt{5e^{13}} + \frac{8}{29}e^{24},$ $\frac{8}{29}\sqrt{2e^{16}}$	$(-\frac{2}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{10}{29}, 0, \frac{8}{29}, \frac{4}{29}, -\frac{2}{29})$ $+ \frac{4}{29}\sqrt{13e^1} \otimes e_5 + \frac{4}{29}\sqrt{13e^3} \otimes e_9$	{124789, 1346, 2569, 3578}
941:10	$0, 0, 0, 0, 0, \frac{12}{1349}\sqrt{1281e^{12}}, \frac{17}{1349}\sqrt{854e^{34}},$ $\frac{4}{1349}\sqrt{9821e^{13}} + \frac{1}{1349}\sqrt{154574e^{24}}, \frac{7}{1349}\sqrt{8906e^{16}}$	$(\frac{102}{1349}, -\frac{237}{1349}, \frac{55}{1349}, \frac{394}{1349}, -\frac{325}{1349}, -\frac{135}{1349}, \frac{449}{1349}, \frac{157}{1349}, -\frac{33}{1349})$ $+ \frac{1}{1349}\sqrt{414190e^1} \otimes e_5 + \frac{8}{1349}\sqrt{9394e^4} \otimes e_9$	{123789, 13468, 25689, 4578}
941:11	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{35e^{12}}, \frac{1}{53}\sqrt{57e^{34}}, \frac{1}{53}\sqrt{58e^{13}} + \frac{1}{53}\sqrt{71e^{45}},$ $\frac{1}{53}\sqrt{58e^{16}}$	$(-\frac{4}{53}, \frac{3}{53}, \frac{5}{53}, -\frac{3}{53}, \frac{4}{53}, -\frac{53}{53}, \frac{2}{53}, \frac{1}{53}, -\frac{53}{53})$ $+ \frac{1}{53}\sqrt{97e^4} \otimes e_9 + \frac{2}{53}\sqrt{17e^5} \otimes e_7 + \frac{2}{53}\sqrt{7e^2} \otimes e_8$	{23679, 478}
941:11	$0, 0, 0, 0, 0, \frac{5}{397}\sqrt{113e^{12}}, \frac{5}{397}\sqrt{259e^{34}}, \frac{10}{397}\sqrt{66e^{13}} + \frac{5}{397}\sqrt{259e^{45}},$ $\frac{5}{397}\sqrt{258e^{16}}$	$(-\frac{5}{397}, -\frac{30}{397}, \frac{40}{397}, -\frac{15}{397}, \frac{50}{397}, -\frac{35}{397}, \frac{25}{397}, \frac{35}{397}, -\frac{40}{397})$ $+ \frac{10}{397}\sqrt{71e^5} \otimes e_7 + \frac{5}{397}\sqrt{22e^1} \otimes e_2 + \frac{5}{397}\sqrt{413e^4} \otimes e_9$	{23679, 25689}
941:11	$0, 0, 0, 0, 0, \frac{6}{281}\sqrt{42e^{12}}, \frac{6}{281}\sqrt{95e^{34}}, \frac{18}{281}\sqrt{11e^{13}} + \frac{6}{281}\sqrt{95e^{45}},$ $\frac{12}{281}\sqrt{23e^{16}}$	$(-\frac{8}{281}, -\frac{15}{281}, \frac{31}{281}, -\frac{13}{281}, \frac{36}{281}, -\frac{23}{281}, \frac{18}{281}, \frac{23}{281}, -\frac{31}{281})$ $+ \frac{12}{281}\sqrt{26e^5} \otimes e_7 + \frac{30}{281}\sqrt{6e^4} \otimes e_9$	{23679, 25689, 345, 478}
941:11	$0, 0, 0, 0, 0, \frac{428}{3127}\sqrt{7e^{12}}, \frac{12}{3127}\sqrt{7062e^{34}},$ $\frac{4}{3127}\sqrt{38734e^{13}} + \frac{4}{3127}\sqrt{49755e^{45}}, \frac{4}{3127}\sqrt{124441e^{16}}$	$(\frac{335}{3127}, -\frac{364}{3127}, \frac{153}{3127}, \frac{674}{3127}, \frac{1162}{3127}, -\frac{29}{3127}, \frac{521}{3127}, \frac{488}{3127}, \frac{306}{3127})$ $+ \frac{12}{3127}\sqrt{14766e^5} \otimes e_9 + \frac{40}{3127}\sqrt{1605e^1} \otimes e_7$	{123489, 129, 23679, 246789}
941:11	$0, 0, 0, 0, 0, \frac{4}{3015}\sqrt{138169e^{12}}, \frac{8}{1005}\sqrt{1631e^{34}},$ $\frac{4}{3015}\sqrt{41474e^{13}} + \frac{4}{3015}\sqrt{118597e^{45}}, \frac{4}{3015}\sqrt{16077e^{16}}$	$(-\frac{91}{603}, \frac{1364}{3015}, -\frac{1}{67}, \frac{682}{3015}, -\frac{394}{1005}, \frac{101}{335}, \frac{637}{3015}, -\frac{100}{603}, \frac{454}{3015})$ $+ \frac{8}{3015}\sqrt{91569e^2} \otimes e_8 + \frac{92}{3015}\sqrt{466e^4} \otimes e_5$	{14678, 1568, 348, 3578}
941:11	$0, 0, 0, 0, 0, \frac{60}{169}e^{12}, \frac{10}{169}\sqrt{29e^{34}}, \frac{10}{169}\sqrt{31e^{13}} + \frac{10}{169}\sqrt{57e^{45}},$ $\frac{40}{169}\sqrt{3e^{16}}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{23}{169}, \frac{27}{169}, -\frac{36}{169}, \frac{9}{169}, \frac{50}{169}, -\frac{9}{169}, -\frac{23}{169})$ $+ \frac{20}{169}\sqrt{14e^2} \otimes e_8 + \frac{20}{169}\sqrt{23e^4} \otimes e_9$	{129, 13468, 23679, 478}
941:11	$0, 0, 0, 0, 0, \frac{4}{229}\sqrt{70e^{12}}, \frac{18}{229}\sqrt{5e^{34}}, \frac{2}{229}\sqrt{235e^{13}} + \frac{2}{229}\sqrt{165e^{45}},$ $\frac{4}{229}\sqrt{115e^{16}}$	$(\frac{20}{229}, -\frac{31}{229}, -\frac{9}{229}, \frac{19}{229}, -\frac{8}{229}, -\frac{11}{229}, \frac{10}{229}, \frac{11}{229}, \frac{9}{229})$ $+ \frac{12}{229}\sqrt{15e^4} \otimes e_9 + \frac{8}{229}\sqrt{30e^1} \otimes e_7$	{129, 13468, 23679, 478}
941:11	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{30e^{12}}, \frac{6}{47}\sqrt{10e^{34}}, \frac{2}{47}\sqrt{123e^{13}} + \frac{6}{47}\sqrt{10e^{45}},$ $\frac{4}{47}\sqrt{30e^{16}}$	$(-\frac{22}{141}, \frac{13}{47}, \frac{28}{141}, -\frac{43}{141}, \frac{49}{141}, \frac{17}{141}, -\frac{5}{47}, \frac{2}{47}, -\frac{5}{141})$ $+ \frac{2}{47}\sqrt{186e^2} \otimes e_7 + \frac{2}{47}\sqrt{186e^5} \otimes e_9$	{123489, 129, 135678, 14567}
941:11	$0, 0, 0, 0, 0, \frac{39}{2143}\sqrt{110e^{12}}, \frac{6}{2143}\sqrt{12155e^{34}},$ $\frac{1}{2143}\sqrt{782210e^{13}} + \frac{1}{2143}\sqrt{313170e^{45}}, \frac{1}{2143}\sqrt{190190e^{16}}$	$(\frac{131}{2143}, -\frac{584}{2143}, \frac{393}{2143}, \frac{109}{2143}, \frac{415}{2143}, -\frac{453}{2143}, \frac{502}{2143}, \frac{524}{2143}, -\frac{322}{2143})$ $+ \frac{10}{2143}\sqrt{15015e^3} \otimes e_9 + \frac{13}{2143}\sqrt{7590e^1} \otimes e_2$	{145789, 189, 23458, 2378}
941:11	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5e^{12}}, \frac{4}{497}\sqrt{3927e^{34}}, \frac{12}{497}\sqrt{70e^{13}} + \frac{4}{497}\sqrt{714e^{45}},$ $\frac{12}{497}\sqrt{231e^{16}}$	$(-\frac{17}{71}, \frac{180}{497}, \frac{110}{497}, -\frac{14}{71}, \frac{89}{497}, \frac{61}{497}, \frac{12}{497}, -\frac{9}{497}, -\frac{58}{497})$ $+ \frac{4}{497}\sqrt{4830e^2} \otimes e_7 + \frac{8}{497}\sqrt{1113e^3} \otimes e_9$	{1259, 13678, 2689, 357}
941:11	$0, 0, 0, 0, 0, \frac{4}{233}\sqrt{1387e^{12}}, \frac{18}{233}\sqrt{73e^{34}}, \frac{2}{233}\sqrt{365e^{13}} + \frac{2}{233}\sqrt{1095e^{45}},$ $\frac{4}{233}\sqrt{1387e^{16}}$	$(\frac{76}{233}, -\frac{35}{233}, -\frac{45}{233}, -\frac{25}{233}, \frac{56}{233}, \frac{41}{233}, -\frac{70}{233}, \frac{31}{233}, \frac{117}{233})$ $+ \frac{16}{233}\sqrt{219e^1} \otimes e_7$	{12349, 1289, 1346, 168, 236789, 24679, 378, 47}
941:11	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{22e^{12}}, \frac{4}{77}\sqrt{30e^{34}}, \frac{8}{77}\sqrt{7e^{13}} + \frac{4}{77}\sqrt{15e^{45}},$ $\frac{20}{77}e^{16}$	$(-\frac{1}{7}, \frac{16}{77}, \frac{6}{77}, \frac{2}{77}, -\frac{1}{11}, \frac{5}{77}, \frac{8}{77}, -\frac{5}{77}, -\frac{6}{77})$ $+ \frac{4}{77}\sqrt{30e^2} \otimes e_7 + \frac{4}{77}\sqrt{39e^4} \otimes e_9$	{129, 14567, 25689, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:11	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{2190}e^{12}, \frac{3}{323}\sqrt{730}e^{34}, \frac{2}{323}\sqrt{16790}e^{13} + \frac{3}{323}\sqrt{730}e^{45},$ $\frac{1}{323}\sqrt{56210}e^{16}$	$(\frac{166}{323}, -\frac{199}{323}, -\frac{27}{323}, \frac{74}{323}, \frac{65}{323}, -\frac{33}{323}, \frac{47}{323}, \frac{139}{323}, \frac{7}{17})$ $+ \frac{1}{323}\sqrt{194910}e^1 \otimes e_2$	{13479, 1359, 14589, 1789, 234578, 238, 24, 257}
941:11	$0, 0, 0, 0, 0, \frac{43}{7341}\sqrt{226}e^{12}, \frac{86}{7341}\sqrt{703}e^{34},$ $\frac{43}{7341}\sqrt{1934}e^{13} + \frac{43}{7341}\sqrt{94}e^{45}, \frac{86}{7341}\sqrt{795}e^{16}$	$(\frac{129}{2447}, -\frac{1462}{7341}, \frac{387}{2447}, -\frac{731}{7341}, \frac{2279}{7341}, -\frac{1075}{7341}, \frac{430}{7341}, \frac{516}{2447}, -\frac{688}{7341})$ $+ \frac{43}{7341}\sqrt{4406}e^1 \otimes e_2 + \frac{86}{7341}\sqrt{1453}e^3 \otimes e_9 + \frac{86}{7341}\sqrt{802}e^5 \otimes e_7$	{23458, 2378}
941:11	$0, 0, 0, 0, 0, \frac{120}{4489}\sqrt{37}e^{12}, \frac{2}{4489}\sqrt{279165}e^{34},$ $\frac{74}{4489}\sqrt{65}e^{13} + \frac{2}{4489}\sqrt{96015}e^{45}, \frac{4}{4489}\sqrt{61790}e^{16}$	$(\frac{104}{4489}, -\frac{287}{4489}, \frac{291}{4489}, -\frac{557}{4489}, \frac{952}{4489}, -\frac{183}{4489}, -\frac{266}{4489}, \frac{395}{4489}, -\frac{79}{4489})$ $+ \frac{4}{4489}\sqrt{85470}e^3 \otimes e_9 + \frac{8}{4489}\sqrt{25530}e^1 \otimes e_7$	{1289, 1346, 24679, 378}
941:11	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{1717}e^{12}, \frac{8}{673}\sqrt{102}e^{34}, \frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{4845}e^{45},$ $\frac{8}{673}\sqrt{4879}e^{16}$	$(-\frac{85}{673}, \frac{14}{673}, \frac{297}{673}, -\frac{176}{673}, \frac{388}{673}, -\frac{71}{673}, \frac{121}{673}, \frac{212}{673}, -\frac{156}{673})$ $+ \frac{24}{673}\sqrt{1054}e^5 \otimes e_9$	{123489, 129, 135678, 14567, 23679, 246789, 345, 58}
941:11	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{4879}e^{12}, \frac{8}{673}\sqrt{4845}e^{34}, \frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{102}e^{45},$ $\frac{8}{673}\sqrt{1717}e^{16}$	$(-\frac{85}{673}, \frac{386}{673}, \frac{18}{673}, -\frac{176}{673}, \frac{109}{673}, \frac{301}{673}, -\frac{158}{673}, -\frac{67}{673}, \frac{216}{673})$ $+ \frac{24}{673}\sqrt{1054}e^2 \otimes e_7$	{123489, 129, 135678, 14567, 234569, 25689, 37, 478}
941:11	$0, 0, 0, 0, 0, \frac{8}{3545}\sqrt{7770}e^{12}, \frac{2}{3545}\sqrt{861693}e^{34},$ $\frac{42}{3545}\sqrt{111}e^{13} + \frac{2}{3545}\sqrt{218337}e^{45}, \frac{4}{3545}\sqrt{138306}e^{16}$	$(-\frac{392}{3545}, \frac{257}{3545}, \frac{1027}{3545}, -\frac{973}{3545}, \frac{1608}{3545}, -\frac{27}{709}, \frac{54}{3545}, \frac{127}{709}, -\frac{527}{3545})$ $+ \frac{12}{3545}\sqrt{35742}e^3 \otimes e_9 + \frac{16}{3545}\sqrt{17871}e^5 \otimes e_7$	{246789, 25689, 345, 37}
941:11	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{125994}e^{12}, \frac{46}{1699}\sqrt{33}e^{34},$ $\frac{1}{1699}\sqrt{89562}e^{13} + \frac{3}{1699}\sqrt{65274}e^{45}, \frac{2}{1699}\sqrt{222387}e^{16}$	$(\frac{223}{1699}, -\frac{536}{1699}, \frac{295}{1699}, -\frac{151}{1699}, \frac{669}{1699}, -\frac{313}{1699}, \frac{144}{1699}, \frac{518}{1699}, -\frac{90}{1699})$ $+ \frac{1}{1699}\sqrt{976074}e^1 \otimes e_2 + \frac{2}{1699}\sqrt{328647}e^5 \otimes e_9$	{13568, 1456, 2369, 24689}
941:11	$0, 0, 0, 0, 0, \frac{12}{497}\sqrt{231}e^{12}, \frac{4}{497}\sqrt{714}e^{34}, \frac{12}{497}\sqrt{70}e^{13} + \frac{4}{497}\sqrt{3927}e^{45},$ $\frac{12}{71}\sqrt{5}e^{16}$	$(-\frac{17}{71}, \frac{24}{71}, \frac{17}{71}, -\frac{14}{71}, \frac{14}{71}, \frac{7}{71}, \frac{3}{71}, 0, -\frac{10}{71})$ $+ \frac{4}{497}\sqrt{4830}e^5 \otimes e_9 + \frac{8}{497}\sqrt{1113}e^2 \otimes e_8$	{1279, 13568, 2369, 578}
941:11	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{22}e^{12}, \frac{2}{43}\sqrt{165}e^{34}, \frac{2}{43}\sqrt{187}e^{13} + \frac{2}{43}\sqrt{165}e^{45},$ $\frac{4}{43}\sqrt{55}e^{16}$	$(-\frac{4}{43}, -\frac{1}{43}, \frac{9}{43}, \frac{13}{43}, -\frac{8}{43}, -\frac{5}{43}, \frac{22}{43}, \frac{5}{43}, -\frac{9}{43})$ $+ \frac{12}{43}\sqrt{11}e^4 \otimes e_9$	{1235789, 129, 13468, 14567, 23679, 25689, 345, 478}
941:11	$0, 0, 0, 0, 0, \frac{3}{752}\sqrt{3074}e^{12}, \frac{3}{752}\sqrt{11501}e^{34},$ $\frac{9}{752}\sqrt{106}e^{13} + \frac{3}{752}\sqrt{11501}e^{45}, \frac{3}{376}\sqrt{3498}e^{16}$	$(\frac{5}{16}, -\frac{121}{376}, -\frac{43}{1504}, -\frac{121}{752}, \frac{669}{1504}, -\frac{7}{752}, -\frac{285}{1504}, \frac{427}{1504}, \frac{57}{188})$ $+ \frac{3}{752}\sqrt{32754}e^1 \otimes e_2 + \frac{3}{752}\sqrt{36782}e^5 \otimes e_7$	{13456, 1367, 14678, 1568}
941:11	$0, 0, 0, 0, 0, \frac{8}{4365}\sqrt{57211}e^{12}, \frac{2}{4365}\sqrt{1359690}e^{34},$ $\frac{2}{4365}\sqrt{734827}e^{13} + \frac{4}{4365}\sqrt{25262}e^{45}, \frac{2}{4365}\sqrt{352182}e^{16}$	$(-\frac{284}{4365}, \frac{295}{873}, -\frac{136}{1455}, \frac{397}{4365}, -\frac{121}{485}, \frac{397}{1455}, -\frac{11}{4365}, -\frac{692}{4365}, \frac{907}{4365})$ $+ \frac{2}{4365}\sqrt{1231894}e^4 \otimes e_5 + \frac{2}{4365}\sqrt{1689582}e^2 \otimes e_7$	{1259, 1467, 23469, 357}
941:11	$0, 0, 0, 0, 0, \frac{5}{208}\sqrt{290}e^{12}, \frac{1}{104}\sqrt{870}e^{34}, \frac{1}{208}\sqrt{2378}e^{13} + \frac{3}{104}\sqrt{58}e^{45},$ $\frac{3}{52}\sqrt{29}e^{16}$	$(\frac{19}{416}, \frac{21}{104}, -\frac{51}{416}, -\frac{23}{208}, \frac{7}{208}, \frac{103}{416}, -\frac{97}{416}, -\frac{1}{13}, \frac{61}{208})$ $+ \frac{1}{208}\sqrt{9222}e^2 \otimes e_8 + \frac{3}{208}\sqrt{1334}e^1 \otimes e_7$	{123459, 1568, 245679, 3578}
941:11	$0, 0, 0, 0, 0, \frac{12}{419}\sqrt{143}e^{12}, \frac{6}{419}\sqrt{429}e^{34}, \frac{6}{419}\sqrt{869}e^{13} + \frac{6}{419}\sqrt{429}e^{45},$ $\frac{12}{419}\sqrt{143}e^{16}$	$(-\frac{132}{419}, \frac{183}{419}, \frac{117}{419}, -\frac{27}{419}, \frac{12}{419}, \frac{51}{419}, \frac{90}{419}, -\frac{15}{419}, -\frac{81}{419})$ $+ \frac{12}{419}\sqrt{506}e^2 \otimes e_8 + \frac{12}{419}\sqrt{506}e^3 \otimes e_9$	{245679, 269, 348, 3578}
941:11	$0, 0, 0, 0, 0, \frac{4}{1713}\sqrt{1151}e^{12}, \frac{1}{1713}\sqrt{628446}e^{34},$ $\frac{4}{1713}\sqrt{25322}e^{13} + \frac{1}{1713}\sqrt{191066}e^{45}, \frac{5}{1713}\sqrt{25322}e^{16}$	$(\frac{542}{1713}, -\frac{203}{571}, -\frac{83}{571}, \frac{722}{1713}, -\frac{143}{571}, -\frac{67}{1713}, \frac{473}{1713}, \frac{293}{1713}, \frac{475}{1713})$ $+ \frac{1}{571}\sqrt{204878}e^1 \otimes e_2 + \frac{4}{1713}\sqrt{102439}e^4 \otimes e_5$	{1346, 13567, 24679, 2569}
941:11	$0, 0, 0, 0, 0, \frac{4}{219}\sqrt{782}e^{12}, \frac{8}{219}\sqrt{714}e^{34}, \frac{8}{219}\sqrt{238}e^{13} + \frac{4}{219}\sqrt{170}e^{45},$ $\frac{4}{219}\sqrt{782}e^{16}$	$(\frac{23}{219}, \frac{6}{73}, -\frac{5}{73}, \frac{140}{219}, -\frac{44}{73}, \frac{41}{219}, \frac{125}{219}, \frac{8}{219}, \frac{64}{219})$ $+ \frac{8}{219}\sqrt{1513}e^4 \otimes e_5$	{12479, 1259, 1467, 156, 23469, 235679, 34, 357}
941:11	$0, 0, 0, 0, 0, \frac{1}{2073}\sqrt{62090}e^{12}, \frac{1}{2073}\sqrt{1282602}e^{34},$ $\frac{2}{2073}\sqrt{48785}e^{13} + \frac{2}{2073}\sqrt{91361}e^{45}, \frac{2}{2073}\sqrt{171191}e^{16}$	$(-\frac{316}{2073}, \frac{60}{691}, \frac{145}{691}, \frac{503}{2073}, -\frac{128}{691}, -\frac{136}{2073}, \frac{938}{2073}, \frac{119}{2073}, -\frac{452}{2073})$ $+ \frac{1}{2073}\sqrt{1428070}e^4 \otimes e_5 + \frac{2}{691}\sqrt{23062}e^3 \otimes e_9$	{1346, 13567, 24679, 2569}
941:11	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{62}e^{12}, \frac{2}{89}\sqrt{310}e^{34}, \frac{4}{89}\sqrt{62}e^{13} + \frac{2}{89}\sqrt{310}e^{45},$ $\frac{1}{89}\sqrt{2170}e^{16}$	$(\frac{8}{89}, -\frac{23}{89}, \frac{7}{89}, \frac{24}{89}, -\frac{9}{89}, -\frac{15}{89}, \frac{31}{89}, \frac{15}{89}, -\frac{7}{89})$ $+ \frac{1}{89}\sqrt{3286}e^4 \otimes e_9 + \frac{5}{89}\sqrt{62}e^1 \otimes e_2$	{13468, 14567, 23679, 25689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:11	$0, 0, 0, 0, 0, \frac{12}{1357} \sqrt{1785}e^{12}, \frac{40}{1357} \sqrt{255}e^{34},$ $\frac{12}{1357} \sqrt{238}e^{13} + \frac{4}{1357} \sqrt{5151}e^{45}, \frac{12}{1357} \sqrt{1785}e^{16}$	$(\frac{315}{1357}, -\frac{160}{1357}, -\frac{303}{1357}, \frac{210}{1357}, -\frac{198}{1357}, \frac{155}{1357}, -\frac{93}{1357}, \frac{12}{1357}, \frac{470}{1357})$ $+ \frac{136}{1357} \sqrt{33}e^1 \otimes e_7 + \frac{4}{1357} \sqrt{23154}e^4 \otimes e_5$	{1259, 156, 235679, 357}
941:11	$0, 0, 0, 0, 0, \frac{1}{112} \sqrt{770}e^{12}, \frac{1}{56} \sqrt{70}e^{34}, \frac{1}{112} \sqrt{70}e^{13} + \frac{1}{56} \sqrt{154}e^{45},$ $\frac{1}{4}e^{16}$	$(-\frac{1}{32}, \frac{1}{8}, \frac{1}{32}, -\frac{3}{16}, \frac{3}{16}, \frac{3}{32}, -\frac{5}{32}, 0, \frac{1}{16})$ $+ \frac{1}{112} \sqrt{854}e^2 \otimes e_8 + \frac{1}{14} \sqrt{14}e^5 \otimes e_9 + \frac{1}{16} \sqrt{22}e^1 \otimes e_7$	{129, 23679}
941:11	$0, 0, 0, 0, 0, \frac{8}{113} \sqrt{57}e^{12}, \frac{2}{113} \sqrt{1995}e^{34}, \frac{18}{113} \sqrt{19}e^{13} + \frac{2}{113} \sqrt{1995}e^{45},$ $\frac{8}{113} \sqrt{57}e^{16}$	$(\frac{16}{113}, \frac{5}{113}, \frac{13}{113}, -\frac{49}{113}, \frac{78}{113}, \frac{21}{113}, -\frac{36}{113}, \frac{29}{113}, \frac{37}{113})$ $+ \frac{4}{113} \sqrt{1311}e^5 \otimes e_7$	{234569, 23679, 246789, 25689, 345, 37, 478, 58}
941:11	$0, 0, 0, 0, 0, \frac{4}{3545} \sqrt{138306}e^{12}, \frac{2}{3545} \sqrt{218337}e^{34},$ $\frac{42}{3545} \sqrt{111}e^{13} + \frac{2}{3545} \sqrt{861693}e^{45}, \frac{8}{3545} \sqrt{7770}e^{16}$	$(-\frac{392}{3545}, \frac{1361}{3545}, \frac{199}{3545}, -\frac{973}{3545}, \frac{156}{709}, \frac{969}{3545}, -\frac{774}{3545}, -\frac{193}{3545}, \frac{577}{3545})$ $+ \frac{12}{3545} \sqrt{35742}e^2 \otimes e_8 + \frac{16}{3545} \sqrt{17871}e^5 \otimes e_7$	{234569, 23679, 478, 58}
941:12	$0, 0, 0, 0, 0, \frac{2}{49} \sqrt{21}e^{12}, \frac{2}{147} \sqrt{105}e^{34}, \frac{2}{49} \sqrt{7}e^{13} + \frac{2}{147} \sqrt{357}e^{45},$ $\frac{2}{21} \sqrt{7}e^{26}$	$(-\frac{1}{7}, \frac{2}{21}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{1}{21}, 0, 0, \frac{1}{21})$ $+ \frac{10}{147} \sqrt{21}e^2 \otimes e_8 + \frac{2}{147} \sqrt{399}e^5 \otimes e_9$	{1239, 14689, 2456, 358}
941:12	$0, 0, 0, 0, 0, \frac{24}{157} e^{12}, \frac{3}{157} \sqrt{10}e^{34}, \frac{6}{157} \sqrt{7}e^{13} + \frac{3}{157} \sqrt{82}e^{45},$ $\frac{6}{157} \sqrt{22}e^{26}$	$(-\frac{6}{157}, \frac{9}{157}, \frac{6}{157}, -\frac{21}{157}, \frac{21}{157}, \frac{3}{157}, -\frac{15}{157}, 0, \frac{12}{157})$ $+ \frac{15}{157} \sqrt{2}e^1 \otimes e_7 + \frac{3}{157} \sqrt{94}e^5 \otimes e_9 + \frac{6}{157} \sqrt{35}e^2 \otimes e_8$	{1239, 14689}
941:12	$0, 0, 0, 0, 0, \frac{2}{131} \sqrt{546}e^{12}, \frac{2}{131} \sqrt{455}e^{34}, \frac{1}{393} \sqrt{12558}e^{13} + \frac{2}{131} \sqrt{273}e^{45},$ $\frac{1}{393} \sqrt{23842}e^{26}$	$(\frac{2}{131}, \frac{16}{393}, \frac{8}{131}, -\frac{33}{131}, \frac{43}{131}, \frac{22}{393}, -\frac{25}{131}, \frac{10}{131}, \frac{38}{393})$ $+ \frac{14}{393} \sqrt{195}e^2 \otimes e_7 + \frac{2}{393} \sqrt{6279}e^5 \otimes e_9$	{123489, 129, 23456, 2568}
941:12	$0, 0, 0, 0, 0, \frac{2}{993} \sqrt{38613}e^{12}, \frac{4}{993} \sqrt{18146}e^{34},$ $\frac{2}{993} \sqrt{12871}e^{13} + \frac{20}{993} \sqrt{211}e^{45}, \frac{2}{993} \sqrt{7385}e^{26}$	$(\frac{122}{331}, -\frac{113}{993}, -\frac{100}{331}, \frac{244}{993}, -\frac{178}{993}, \frac{253}{993}, -\frac{56}{993}, \frac{22}{993}, \frac{140}{993})$ $+ \frac{2}{993} \sqrt{106555}e^1 \otimes e_7 + \frac{2}{993} \sqrt{80813}e^4 \otimes e_5$	{12349, 13469, 2467, 47}
941:12	$0, 0, 0, 0, 0, \frac{2}{1611} \sqrt{122551}e^{12}, \frac{2}{1611} \sqrt{94270}e^{34},$ $\frac{1}{1611} \sqrt{131978}e^{13} + \frac{2}{537} \sqrt{9427}e^{45}, \frac{1}{537} \sqrt{56562}e^{26}$	$(\frac{572}{1611}, -\frac{368}{1611}, -\frac{82}{1611}, \frac{203}{1611}, \frac{77}{179}, \frac{68}{537}, -\frac{95}{331}, \frac{490}{1611}, -\frac{164}{1611})$ $+ \frac{26}{1611} \sqrt{1714}e^5 \otimes e_9 + \frac{1}{537} \sqrt{8570}e^1 \otimes e_7$	{235678, 24567, 3578, 457}
941:12	$0, 0, 0, 0, 0, \frac{29}{7349} \sqrt{1686}e^{12}, \frac{29}{7349} \sqrt{1498}e^{34},$ $\frac{29}{7349} \sqrt{2278}e^{13} + \frac{58}{7349} \sqrt{515}e^{45}, \frac{29}{7349} \sqrt{4026}e^{26}$	$(-\frac{1247}{7349}, \frac{812}{7349}, \frac{1218}{7349}, -\frac{1044}{7349}, \frac{1015}{7349}, -\frac{435}{7349}, \frac{174}{7349}, -\frac{29}{7349}, \frac{377}{7349})$ $+ \frac{29}{7349} \sqrt{4742}e^3 \otimes e_9 + \frac{29}{7349} \sqrt{5866}e^2 \otimes e_8 + \frac{58}{7349} \sqrt{655}e^5 \otimes e_7$	{146789, 15689}
941:12	$0, 0, 0, 0, 0, \frac{1}{575} \sqrt{4237}e^{12}, \frac{2}{575} \sqrt{20739}e^{34},$ $\frac{1}{575} \sqrt{39471}e^{13} + \frac{1}{575} \sqrt{31889}e^{45}, \frac{1}{575} \sqrt{55081}e^{26}$	$(-\frac{19}{575}, -\frac{54}{575}, \frac{96}{575}, \frac{6}{23}, -\frac{73}{575}, -\frac{73}{575}, \frac{246}{575}, \frac{77}{575}, -\frac{127}{575})$ $- \frac{1}{575} \sqrt{91207}e^4 \otimes e_5 + \frac{3}{575} \sqrt{15387}e^3 \otimes e_9$	{12346, 123567, 134, 1357, 2479, 259, 4679, 569}
941:12	$0, 0, 0, 0, 0, \frac{1}{575} \sqrt{4237}e^{12}, \frac{2}{575} \sqrt{20739}e^{34},$ $\frac{1}{575} \sqrt{39471}e^{13} + \frac{1}{575} \sqrt{31889}e^{45}, \frac{1}{575} \sqrt{55081}e^{26}$	$(-\frac{19}{575}, -\frac{54}{575}, \frac{96}{575}, \frac{6}{23}, -\frac{73}{575}, -\frac{73}{575}, \frac{246}{575}, \frac{77}{575}, -\frac{127}{575})$ $+ \frac{1}{575} \sqrt{91207}e^4 \otimes e_5 + \frac{3}{575} \sqrt{15387}e^3 \otimes e_9$	{12346, 123567, 134, 1357, 2479, 259, 4679, 569}
941:12	$0, 0, 0, 0, 0, \frac{6}{4753} \sqrt{83570}e^{12}, \frac{12}{4753} \sqrt{29585}e^{34},$ $\frac{12}{4753} \sqrt{13359}e^{13} + \frac{6}{4753} \sqrt{11651}e^{45}, \frac{6}{679} \sqrt{1342}e^{26}$	$(-\frac{3}{4753}, \frac{786}{4753}, -\frac{573}{4753}, \frac{261}{4753}, -\frac{837}{4753}, \frac{783}{4753}, -\frac{312}{4753}, -\frac{576}{4753}, \frac{1569}{4753})$ $+ \frac{6}{4753} \sqrt{167323}e^2 \otimes e_7 + \frac{6}{679} \sqrt{1891}e^4 \otimes e_5$	{1259, 14679, 2346, 357}
941:12	$0, 0, 0, 0, 0, \frac{2}{1617} \sqrt{280893}e^{12}, \frac{2}{1617} \sqrt{283470}e^{34},$ $\frac{1}{1617} \sqrt{592710}e^{13} + \frac{2}{539} \sqrt{859}e^{45}, \frac{1}{231} \sqrt{18898}e^{26}$	$(-\frac{16}{539}, \frac{424}{1617}, -\frac{18}{539}, -\frac{127}{539}, \frac{93}{539}, \frac{376}{1617}, -\frac{145}{539}, -\frac{34}{539}, \frac{800}{1617})$ $+ \frac{2}{1617} \sqrt{582402}e^2 \otimes e_7$	{1234589, 1259, 136789, 14679, 2346, 268, 357, 4578}
941:12	$0, 0, 0, 0, 0, \frac{2}{1601} \sqrt{313599}e^{12}, \frac{4}{1601} \sqrt{87978}e^{34},$ $\frac{55}{1601} \sqrt{258}e^{13} + \frac{18}{1601} \sqrt{1419}e^{45}, \frac{1}{1601} \sqrt{269610}e^{26}$	$(\frac{884}{1601}, -\frac{252}{1601}, \frac{486}{1601}, -\frac{49}{1601}, \frac{447}{1601}, \frac{632}{1601}, -\frac{535}{1601}, \frac{398}{1601}, \frac{380}{1601})$ $+ \frac{2}{1601} \sqrt{933702}e^1 \otimes e_7$	{12349, 1289, 13469, 1689, 23678, 2467, 378, 47}
941:12	$0, 0, 0, 0, 0, \frac{6}{395} \sqrt{1081}e^{12}, \frac{12}{395} \sqrt{667}e^{34}, \frac{138}{395} \sqrt{3}e^{13} + \frac{12}{395} \sqrt{667}e^{45},$ $\frac{12}{395} \sqrt{138}e^{26}$	$(\frac{94}{395}, \frac{1}{395}, \frac{5}{79}, -\frac{32}{79}, \frac{279}{395}, \frac{19}{79}, -\frac{27}{395}, \frac{119}{395}, \frac{96}{395})$ $+ \frac{6}{395} \sqrt{7429}e^5 \otimes e_7$	{23456, 2367, 24678, 2568, 345, 37, 478, 58}
941:12	$0, 0, 0, 0, 0, \frac{2}{185} \sqrt{366}e^{12}, \frac{1}{555} \sqrt{4758}e^{34}, \frac{1}{555} \sqrt{366}e^{13} + \frac{1}{185} \sqrt{2318}e^{45},$ $\frac{1}{555} \sqrt{22570}e^{26}$	$(-\frac{16}{185}, \frac{34}{555}, \frac{7}{185}, \frac{27}{185}, -\frac{36}{185}, -\frac{14}{555}, \frac{34}{185}, -\frac{9}{185}, \frac{4}{111})$ $+ \frac{2}{555} \sqrt{6954}e^4 \otimes e_9 + \frac{4}{555} \sqrt{2013}e^2 \otimes e_8$	{12379, 15689, 24567, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:12	$0, 0, 0, 0, 0, \frac{4}{1541}\sqrt{32963}e^{12}, \frac{1}{1541}\sqrt{2222094}e^{34},$ $\frac{1}{1541}\sqrt{476994}e^{13} + \frac{1}{1541}\sqrt{213290}e^{45}, \frac{1}{1541}\sqrt{368410}e^{26}$	$(\frac{272}{1541}, \frac{54}{1541}, -\frac{165}{1541}, \frac{1023}{1541}, -\frac{916}{1541}, \frac{326}{1541}, \frac{858}{1541}, \frac{107}{1541}, \frac{380}{1541})$ $+ \frac{4}{1541}\sqrt{304423}e^4 \otimes e_5$	{12479, 1259, 14679, 1569, 2346, 23567, 34, 357}
941:12	$0, 0, 0, 0, 0, \frac{8}{1601}\sqrt{7997}e^{12}, \frac{1}{1601}\sqrt{47982}e^{34},$ $\frac{1}{1601}\sqrt{239910}e^{13} + \frac{1}{1601}\sqrt{495814}e^{45}, \frac{1}{1601}\sqrt{591778}e^{26}$	$(-\frac{292}{1601}, \frac{462}{1601}, \frac{27}{1601}, \frac{231}{1601}, -\frac{496}{1601}, \frac{170}{1601}, \frac{258}{1601}, -\frac{265}{1601}, \frac{632}{1601})$ $+ \frac{2}{1601}\sqrt{138130}e^4 \otimes e_5 + \frac{2}{1601}\sqrt{362046}e^2 \otimes e_8$	{146789, 15689, 348, 3578}
941:12	$0, 0, 0, 0, 0, \frac{22}{3889}\sqrt{4105}e^{12}, \frac{44}{3889}\sqrt{170}e^{34},$ $\frac{66}{3889}\sqrt{85}e^{13} + \frac{440}{3889}\sqrt{15}e^{45}, \frac{44}{3889}\sqrt{1090}e^{26}$	$(-\frac{486}{3889}, \frac{923}{3889}, \frac{199}{3889}, -\frac{848}{3889}, \frac{561}{3889}, \frac{437}{3889}, -\frac{649}{3889}, -\frac{287}{3889}, \frac{1360}{3889})$ $+ \frac{22}{3889}\sqrt{6365}e^5 \otimes e_7 + \frac{88}{3889}\sqrt{665}e^2 \otimes e_8$	{123459, 12379, 146789, 15689}
941:12	$0, 0, 0, 0, 0, \frac{14}{1411}\sqrt{403}e^{12}, \frac{2}{4233}\sqrt{329406}e^{34},$ $\frac{14}{1411}\sqrt{31}e^{13} + \frac{16}{4233}\sqrt{1302}e^{45}, \frac{2}{4233}\sqrt{306187}e^{26}$	$(-\frac{151}{1411}, \frac{290}{4233}, \frac{11}{83}, -\frac{235}{1411}, \frac{271}{1411}, -\frac{163}{4233}, -\frac{48}{1411}, \frac{36}{1411}, \frac{127}{4233})$ $+ \frac{2}{4233}\sqrt{371721}e^3 \otimes e_9 + \frac{2}{4233}\sqrt{453747}e^2 \otimes e_7$	{1289, 1456789, 234568, 378}
941:12	$0, 0, 0, 0, 0, \frac{28}{87}\sqrt{3}e^{12}, \frac{7}{29}\sqrt{2}e^{34}, \frac{7}{87}\sqrt{30}e^{13} + \frac{7}{29}\sqrt{6}e^{45},$ $\frac{7}{87}\sqrt{58}e^{26}$	$(-\frac{8}{29}, \frac{34}{87}, \frac{3}{29}, -\frac{1}{29}, -\frac{4}{29}, \frac{10}{29}, \frac{2}{29}, -\frac{5}{29}, \frac{44}{87})$ $+ \frac{28}{29}e^2 \otimes e_8$	{1234579, 1239, 14689, 156789, 2456, 267, 3478, 358}
941:12	$0, 0, 0, 0, 0, \frac{2}{4057}\sqrt{512171}e^{12}, \frac{14}{4057}\sqrt{2305}e^{34},$ $\frac{4}{4057}\sqrt{83441}e^{13} + \frac{46}{4057}\sqrt{461}e^{45}, \frac{4}{4057}\sqrt{98193}e^{26}$	$(\frac{153}{4057}, \frac{593}{4057}, -\frac{482}{4057}, -\frac{287}{4057}, -\frac{42}{4057}, \frac{746}{4057}, -\frac{769}{4057}, \frac{329}{4057}, \frac{1339}{4057})$ $+ \frac{2}{4057}\sqrt{691961}e^4 \otimes e_7 + \frac{2}{4057}\sqrt{953809}e^2 \otimes e_8$	{123459, 15689, 24567, 3578}
941:12	$0, 0, 0, 0, 0, \frac{2}{531}\sqrt{11431}e^{12}, \frac{2}{531}\sqrt{4970}e^{34},$ $\frac{1}{531}\sqrt{42742}e^{13} + \frac{2}{177}\sqrt{5467}e^{45}, \frac{1}{531}\sqrt{175938}e^{26}$	$(\frac{92}{531}, -\frac{128}{531}, \frac{158}{531}, -\frac{83}{531}, \frac{37}{59}, -\frac{4}{59}, \frac{25}{177}, \frac{250}{531}, -\frac{164}{531})$ $+ \frac{2}{531}\sqrt{108346}e^5 \otimes e_9$	{1234789, 1279, 1346789, 1679, 234567, 25678, 3457, 578}
941:12	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{111}e^{12}, \frac{1}{51}\sqrt{1110}e^{34}, \frac{1}{17}\sqrt{74}e^{13} + \frac{1}{51}\sqrt{1110}e^{45},$ $\frac{1}{51}\sqrt{1258}e^{26}$	$(\frac{4}{17}, -\frac{14}{51}, \frac{1}{17}, \frac{7}{17}, -\frac{2}{17}, -\frac{1}{51}, \frac{8}{17}, \frac{5}{17}, -\frac{16}{51})$ $+ \frac{2}{51}\sqrt{777}e^4 \otimes e_9$	{1235789, 129, 1356789, 169, 23456, 24678, 345, 478}
941:12	$0, 0, 0, 0, 0, \frac{14}{659}\sqrt{91}e^{12}, \frac{7}{659}\sqrt{182}e^{34}, \frac{7}{659}\sqrt{742}e^{13} + \frac{7}{1977}\sqrt{2730}e^{45},$ $\frac{7}{1977}\sqrt{9226}e^{26}$	$(-\frac{162}{659}, \frac{286}{1977}, \frac{143}{659}, -\frac{29}{659}, \frac{10}{659}, -\frac{200}{1977}, \frac{114}{659}, -\frac{19}{659}, \frac{86}{1977})$ $+ \frac{14}{659}\sqrt{371}e^2 \otimes e_8 + \frac{98}{1977}\sqrt{57}e^3 \otimes e_9$	{146789, 15689, 348, 3578}
941:12	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{66}e^{12}, \frac{1}{41}\sqrt{10}e^{34}, \frac{1}{41}\sqrt{6}e^{13} + \frac{1}{123}\sqrt{30}e^{45},$ $\frac{1}{123}\sqrt{82}e^{26}$	$(\frac{2}{41}, -\frac{2}{123}, -\frac{2}{41}, \frac{1}{41}, -\frac{1}{41}, \frac{4}{123}, -\frac{1}{41}, 0, \frac{2}{123})$ $+ \frac{1}{123}\sqrt{102}e^4 \otimes e_9 + \frac{2}{123}\sqrt{30}e^2 \otimes e_7$	{129, 1356789, 23456, 478}
941:12	$0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1195}e^{12}, \frac{7}{527}\sqrt{2390}e^{34},$ $\frac{1}{527}\sqrt{126670}e^{13} + \frac{1}{1581}\sqrt{523410}e^{45}, \frac{1}{1581}\sqrt{1259530}e^{26}$	$(-\frac{48}{527}, -\frac{194}{1581}, \frac{13}{31}, \frac{13}{527}, \frac{160}{527}, -\frac{338}{1581}, \frac{234}{527}, \frac{173}{527}, -\frac{532}{1581})$ $+ \frac{20}{1581}\sqrt{7887}e^3 \otimes e_9$	{12346, 123567, 134, 1357, 2479, 259, 4679, 569}
941:12	$0, 0, 0, 0, 0, \frac{2}{3805}\sqrt{18469}e^{12}, \frac{2}{3805}\sqrt{882497}e^{34},$ $\frac{2}{3805}\sqrt{304337}e^{13} + \frac{2}{3805}\sqrt{103587}e^{45}, \frac{4}{3805}\sqrt{159797}e^{26}$	$(\frac{46}{3805}, -\frac{371}{3805}, \frac{182}{761}, -\frac{156}{761}, \frac{1736}{3805}, -\frac{65}{761}, \frac{26}{761}, \frac{956}{3805}, -\frac{696}{3805})$ $+ \frac{2}{3805}\sqrt{1137851}e^5 \otimes e_7 + \frac{4}{3805}\sqrt{389455}e^3 \otimes e_9$	{124789, 12589, 146789, 15689}
941:12	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{29370}e^{12}, \frac{1}{487}\sqrt{49170}e^{34},$ $\frac{11}{487}\sqrt{30}e^{13} + \frac{3}{487}\sqrt{1870}e^{45}, \frac{1}{487}\sqrt{32010}e^{26}$	$(\frac{178}{487}, -\frac{126}{487}, -\frac{78}{487}, \frac{91}{487}, \frac{9}{487}, \frac{52}{487}, \frac{13}{487}, \frac{100}{487}, -\frac{74}{487})$ $+ \frac{14}{487}\sqrt{330}e^1 \otimes e_7 + \frac{37}{487}\sqrt{70}e^4 \otimes e_9$	{129, 169, 24678, 478}
941:12	$0, 0, 0, 0, 0, \frac{1}{5}e^{12}, \frac{1}{5}\sqrt{3}e^{34}, \frac{1}{5}\sqrt{2}e^{13} + \frac{1}{5}\sqrt{3}e^{45}, \frac{1}{5}\sqrt{2}e^{26}$	$(\frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{1}{5}\sqrt{5}e^4 \otimes e_9 + \frac{2}{5}e^5 \otimes e_7$	{23456, 24678, 345, 478}
941:12	$0, 0, 0, 0, 0, \frac{1}{2417}\sqrt{781}e^{12}, \frac{1}{2417}\sqrt{681}e^{34}, \frac{1}{2417}\sqrt{302}e^{13} + \frac{3}{2417}\sqrt{165}e^{45},$ $\frac{25}{2417}\sqrt{2}e^{26}$	$(-\frac{23}{2417}, \frac{5}{2417}, \frac{27}{2417}, -\frac{12}{2417}, \frac{16}{2417}, -\frac{18}{2417}, \frac{15}{2417}, \frac{4}{2417}, -\frac{13}{2417})$ $+ \frac{1}{2417}\sqrt{1709}e^4 \otimes e_9 + \frac{2}{2417}\sqrt{271}e^5 \otimes e_7 + \frac{2}{2417}\sqrt{402}e^2 \otimes e_8$	{23456, 478}
941:12	$0, 0, 0, 0, 0, \frac{24}{4801}\sqrt{1491}e^{12}, \frac{4}{4801}\sqrt{178423}e^{34},$ $\frac{4}{4801}\sqrt{151585}e^{13} + \frac{2}{4801}\sqrt{361319}e^{45}, \frac{4}{4801}\sqrt{114310}e^{26}$	$(\frac{864}{4801}, -\frac{877}{4801}, \frac{104}{4801}, -\frac{234}{4801}, \frac{1202}{4801}, -\frac{13}{4801}, -\frac{130}{4801}, \frac{968}{4801}, -\frac{890}{4801})$ $+ \frac{2}{4801}\sqrt{1014377}e^1 \otimes e_7 + \frac{2}{4801}\sqrt{1135645}e^3 \otimes e_9$	{1289, 1689, 23678, 378}
941:13	$0, 0, 0, 0, 0, \frac{1}{1153}\sqrt{49502}e^{12}, \frac{5}{1153}\sqrt{3286}e^{34}, \frac{1}{1153}\sqrt{21306}e^{35},$ $\frac{2}{1153}\sqrt{22313}e^{16} + \frac{2}{1153}\sqrt{5830}e^{45}$	$(\frac{46}{1153}, -\frac{107}{1153}, \frac{91}{1153}, -\frac{151}{1153}, \frac{136}{1153}, -\frac{61}{1153}, -\frac{60}{1153}, \frac{227}{1153}, -\frac{15}{1153})$ $+ \frac{1}{1153}\sqrt{95930}e^3 \otimes e_9 + \frac{2}{1153}\sqrt{30422}e^1 \otimes e_7$	{129, 13468, 2456789, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:13	$0, 0, 0, 0, 0, \frac{1}{231}\sqrt{18898e^{12}}, \frac{2}{1617}\sqrt{283470e^{34}}, \frac{2}{539}\sqrt{859e^{35}},$ $\frac{2}{1617}\sqrt{280893e^{16}} + \frac{1}{1617}\sqrt{592710e^{45}}$	$(\frac{424}{1617}, -\frac{278}{1617}, -\frac{127}{539}, -\frac{18}{539}, \frac{208}{539}, \frac{146}{1617}, -\frac{145}{539}, \frac{81}{539}, \frac{190}{539})$ $+ \frac{2}{1617}\sqrt{582402e^1} \otimes e_7$	{1234589, 1289, 1346, 156, 23679, 245679, 3578, 478}
941:13	$0, 0, 0, 0, 0, \frac{1}{531}\sqrt{175938e^{12}}, \frac{2}{177}\sqrt{5467e^{34}}, \frac{2}{531}\sqrt{4970e^{35}},$ $\frac{2}{531}\sqrt{11431e^{16}} + \frac{1}{531}\sqrt{42742e^{45}}$	$(-\frac{128}{531}, \frac{2}{3}, -\frac{83}{531}, -\frac{20}{177}, \frac{158}{531}, \frac{226}{177}, -\frac{143}{531}, \frac{25}{177}, \frac{98}{531})$ $+ \frac{2}{531}\sqrt{108346e^2} \otimes e_7$	{1234589, 1289, 135678, 14678, 2345689, 2689, 3578, 478}
941:13	$0, 0, 0, 0, 0, \frac{54}{187}\sqrt{2e^{12}}, \frac{9}{187}\sqrt{110e^{34}}, \frac{18}{187}\sqrt{6e^{35}},$ $\frac{18}{187}\sqrt{2e^{16}} + \frac{18}{187}\sqrt{5e^{45}}$	$(-\frac{18}{187}, \frac{72}{187}, -\frac{45}{187}, \frac{36}{187}, 0, \frac{54}{187}, -\frac{9}{187}, -\frac{45}{187}, \frac{36}{187})$ $+ \frac{18}{187}\sqrt{43e^2} \otimes e_7 + \frac{9}{187}\sqrt{158e^4} \otimes e_8$	{12589, 13678, 25689, 378}
941:13	$0, 0, 0, 0, 0, \frac{1}{229}\sqrt{7315e^{12}}, \frac{1}{229}\sqrt{10815e^{34}}, \frac{2}{229}\sqrt{455e^{35}},$ $\frac{5}{229}\sqrt{322e^{16}} + \frac{21}{229}\sqrt{5e^{45}}$	$(\frac{47}{229}, -\frac{24}{229}, -\frac{62}{229}, \frac{39}{229}, \frac{31}{229}, \frac{23}{229}, -\frac{23}{229}, -\frac{31}{229}, \frac{70}{229})$ $+ \frac{17}{229}\sqrt{35e^4} \otimes e_8 + \frac{1}{229}\sqrt{17990e^1} \otimes e_7$	{123459, 1568, 236789, 47}
941:13	$0, 0, 0, 0, 0, \frac{26}{657}\sqrt{10e^{12}}, \frac{13}{657}\sqrt{229e^{34}}, \frac{13}{657}\sqrt{229e^{35}},$ $\frac{13}{657}\sqrt{30e^{16}} + \frac{13}{657}\sqrt{214e^{45}}$	$(\frac{13}{73}, -\frac{52}{657}, -\frac{169}{657}, \frac{91}{657}, \frac{91}{657}, \frac{65}{657}, -\frac{26}{219}, -\frac{26}{219}, \frac{182}{657})$ $+ \frac{13}{657}\sqrt{505e^4} \otimes e_8 + \frac{13}{657}\sqrt{505e^5} \otimes e_7 + \frac{26}{657}\sqrt{46e^1} \otimes e_2$	{13456, 13678, 24679}
941:13	$0, 0, 0, 0, 0, \frac{26}{657}\sqrt{10e^{12}}, \frac{13}{657}\sqrt{229e^{34}}, \frac{13}{657}\sqrt{229e^{35}},$ $\frac{13}{657}\sqrt{30e^{16}} + \frac{13}{657}\sqrt{214e^{45}}$	$(\frac{13}{73}, -\frac{52}{657}, -\frac{169}{657}, \frac{91}{657}, \frac{91}{657}, \frac{65}{657}, -\frac{26}{219}, -\frac{26}{219}, \frac{182}{657})$ $+ \frac{13}{657}\sqrt{505e^4} \otimes e_8 - \frac{13}{657}\sqrt{505e^5} \otimes e_7 + \frac{26}{657}\sqrt{46e^1} \otimes e_2$	{13456, 13678, 24679}
941:13	$0, 0, 0, 0, 0, \frac{5}{392}\sqrt{978e^{12}}, \frac{1}{392}\sqrt{28851e^{34}}, \frac{1}{392}\sqrt{28851e^{35}},$ $\frac{1}{392}\sqrt{141810e^{16}} + \frac{1}{392}\sqrt{42054e^{45}}$	$(\frac{111}{196}, -\frac{267}{392}, \frac{2}{49}, \frac{177}{784}, \frac{177}{784}, -\frac{45}{392}, \frac{209}{784}, \frac{209}{784}, \frac{177}{392})$ $+ \frac{1}{392}\sqrt{310026e^1} \otimes e_2$	{13468, 1467, 234569, 236789, 2456789, 269}
941:13	$0, 0, 0, 0, 0, \frac{5}{401}\sqrt{822e^{12}}, \frac{4}{401}\sqrt{4110e^{34}}, \frac{4}{401}\sqrt{4110e^{35}},$ $\frac{2}{401}\sqrt{411e^{16}} + \frac{9}{401}\sqrt{822e^{45}}$	$(\frac{52}{401}, \frac{50}{401}, -\frac{85}{401}, \frac{240}{401}, -\frac{86}{401}, \frac{102}{401}, \frac{155}{401}, -\frac{171}{401}, \frac{154}{401})$ $+ \frac{2}{401}\sqrt{66993e^4} \otimes e_8$	{12345, 12378, 14679, 15689, 23456, 23678, 479, 589}
941:13	$0, 0, 0, 0, 0, \frac{33}{713}\sqrt{5e^{12}}, \frac{33}{713}\sqrt{29e^{34}}, \frac{33}{713}\sqrt{29e^{35}},$ $\frac{11}{713}\sqrt{290e^{16}} + \frac{22}{713}\sqrt{29e^{45}}$	$(\frac{33}{713}, -\frac{88}{713}, \frac{99}{713}, -\frac{121}{713}, \frac{99}{713}, -\frac{55}{713}, -\frac{22}{713}, \frac{198}{713}, -\frac{22}{713})$ $+ \frac{11}{713}\sqrt{266e^1} \otimes e_2 - \frac{22}{713}\sqrt{110e^5} \otimes e_7 + \frac{33}{713}\sqrt{65e^3} \otimes e_9$	{13456, 13678, 24679, 25689}
941:13	$0, 0, 0, 0, 0, \frac{33}{713}\sqrt{5e^{12}}, \frac{33}{713}\sqrt{29e^{34}}, \frac{33}{713}\sqrt{29e^{35}},$ $\frac{11}{713}\sqrt{290e^{16}} + \frac{22}{713}\sqrt{29e^{45}}$	$(\frac{33}{713}, -\frac{88}{713}, \frac{99}{713}, -\frac{121}{713}, \frac{99}{713}, -\frac{55}{713}, -\frac{22}{713}, \frac{198}{713}, -\frac{22}{713})$ $+ \frac{11}{713}\sqrt{266e^1} \otimes e_2 + \frac{22}{713}\sqrt{110e^5} \otimes e_7 + \frac{33}{713}\sqrt{65e^3} \otimes e_9$	{13456, 13678, 24679, 25689}
941:13	$0, 0, 0, 0, 0, \frac{6}{1049}\sqrt{1645e^{12}}, \frac{24}{1049}\sqrt{329e^{34}}, \frac{24}{1049}\sqrt{329e^{35}},$ $\frac{8}{1049}\sqrt{3290e^{16}} + \frac{16}{1049}\sqrt{329e^{45}}$	$(\frac{339}{1049}, -\frac{319}{1049}, -\frac{153}{1049}, \frac{432}{1049}, -\frac{73}{1049}, \frac{20}{1049}, \frac{279}{1049}, -\frac{226}{1049}, \frac{359}{1049})$ $+ \frac{2}{1049}\sqrt{134561e^1} \otimes e_2 + \frac{2}{1049}\sqrt{166145e^4} \otimes e_8$	{13456, 13678, 24679, 25689}
941:13	$0, 0, 0, 0, 0, \frac{1}{393}\sqrt{23842e^{12}}, \frac{2}{131}\sqrt{455e^{34}}, \frac{2}{131}\sqrt{273e^{35}},$ $\frac{1}{131}\sqrt{546e^{16}} + \frac{2}{393}\sqrt{12558e^{45}}$	$(\frac{16}{393}, \frac{52}{393}, -\frac{33}{131}, \frac{8}{131}, \frac{20}{131}, \frac{68}{393}, -\frac{25}{131}, -\frac{13}{131}, \frac{28}{131})$ $+ \frac{14}{393}\sqrt{195e^1} \otimes e_7 + \frac{2}{393}\sqrt{6279e^2} \otimes e_8$	{123459, 129, 13468, 1568}
941:13	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{159e^{12}}, \frac{1}{181}\sqrt{3763e^{34}}, \frac{1}{181}\sqrt{3763e^{35}},$ $\frac{1}{181}\sqrt{742e^{16}} + \frac{1}{181}\sqrt{4134e^{45}}$	$(\frac{19}{181}, \frac{12}{181}, -\frac{53}{181}, \frac{25}{181}, \frac{25}{181}, \frac{31}{181}, -\frac{28}{181}, -\frac{28}{181}, \frac{50}{181})$ $+ \frac{1}{181}\sqrt{8639e^4} \otimes e_8 + \frac{1}{181}\sqrt{8639e^5} \otimes e_7$	{12345, 12378, 14679, 23456, 23678, 479}
941:13	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{159e^{12}}, \frac{1}{181}\sqrt{3763e^{34}}, \frac{1}{181}\sqrt{3763e^{35}},$ $\frac{1}{181}\sqrt{742e^{16}} + \frac{1}{181}\sqrt{4134e^{45}}$	$(\frac{19}{181}, \frac{12}{181}, -\frac{53}{181}, \frac{25}{181}, \frac{25}{181}, \frac{31}{181}, -\frac{28}{181}, -\frac{28}{181}, \frac{50}{181})$ $+ \frac{1}{181}\sqrt{8639e^4} \otimes e_8 - \frac{1}{181}\sqrt{8639e^5} \otimes e_7$	{12345, 12378, 14679, 23456, 23678, 479}
941:13	$0, 0, 0, 0, 0, \frac{1}{363}\sqrt{15910e^{12}}, \frac{1}{363}\sqrt{27010e^{34}}, \frac{1}{1089}\sqrt{78070e^{35}},$ $\frac{10}{1089}\sqrt{1591e^{16}} + \frac{2}{1089}\sqrt{370e^{45}}$	$(-\frac{274}{1089}, \frac{43}{121}, \frac{19}{99}, -\frac{64}{363}, \frac{31}{1089}, \frac{113}{1089}, \frac{17}{1089}, \frac{80}{363}, -\frac{161}{1089})$ $+ \frac{1}{363}\sqrt{41810e^3} \otimes e_9 + \frac{2}{1089}\sqrt{82510e^2} \otimes e_7$	{129, 13567, 269, 357}
941:13	$0, 0, 0, 0, 0, \frac{55}{313}e^{12}, \frac{11}{313}\sqrt{101e^{34}}, \frac{11}{313}\sqrt{101e^{35}},$ $\frac{11}{313}\sqrt{210e^{16}} + \frac{22}{313}e^{45}$	$(\frac{33}{313}, -\frac{88}{313}, \frac{99}{313}, -\frac{11}{313}, -\frac{11}{313}, -\frac{55}{313}, \frac{88}{313}, \frac{88}{313}, -\frac{22}{313})$ $+ \frac{11}{313}\sqrt{226e^1} \otimes e_2 + \frac{55}{313}\sqrt{13e^3} \otimes e_9$	{13468, 2456789, 269}
941:13	$0, 0, 0, 0, 0, \frac{2}{233}\sqrt{3e^{12}}, \frac{1}{233}\sqrt{97e^{34}}, \frac{1}{233}\sqrt{97e^{35}},$ $\frac{1}{233}\sqrt{38e^{16}} + \frac{1}{233}\sqrt{78e^{45}}$	$(-\frac{7}{233}, \frac{12}{233}, -\frac{1}{233}, -\frac{1}{233}, -\frac{1}{233}, \frac{5}{233}, -\frac{2}{233}, -\frac{2}{233}, -\frac{2}{233})$ $+ \frac{1}{233}\sqrt{137e^4} \otimes e_8 + \frac{1}{233}\sqrt{137e^5} \otimes e_7 + \frac{2}{233}\sqrt{39e^3} \otimes e_9$	{12479, 12589, 13456, 13678, 24679, 25689, 345, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:13	$0, 0, 0, 0, 0, \frac{2}{233}\sqrt{3}e^{12}, \frac{1}{233}\sqrt{97}e^{34}, \frac{1}{233}\sqrt{97}e^{35},$ $\frac{1}{233}\sqrt{38}e^{16} + \frac{1}{233}\sqrt{78}e^{45}$	$(-\frac{7}{233}, \frac{12}{233}, -\frac{1}{233}, -\frac{1}{233}, -\frac{1}{233}, \frac{5}{233}, -\frac{2}{233}, -\frac{2}{233}, -\frac{2}{233})$ $-\frac{1}{233}\sqrt{137}e^4 \otimes e_8 + \frac{1}{233}\sqrt{137}e^5 \otimes e_7 + \frac{2}{233}\sqrt{39}e^3 \otimes e_9$	{12479, 13456, 13678, 24679, 345, 378}
941:13	$0, 0, 0, 0, 0, \frac{2}{233}\sqrt{3}e^{12}, \frac{1}{233}\sqrt{97}e^{34}, \frac{1}{233}\sqrt{97}e^{35},$ $\frac{1}{233}\sqrt{38}e^{16} + \frac{1}{233}\sqrt{78}e^{45}$	$(-\frac{7}{233}, \frac{12}{233}, -\frac{1}{233}, -\frac{1}{233}, -\frac{1}{233}, \frac{5}{233}, -\frac{2}{233}, -\frac{2}{233}, -\frac{2}{233})$ $+\frac{1}{233}\sqrt{137}e^4 \otimes e_8 - \frac{1}{233}\sqrt{137}e^5 \otimes e_7 + \frac{2}{233}\sqrt{39}e^3 \otimes e_9$	{12479, 13456, 13678, 24679, 345, 378}
941:13	$0, 0, 0, 0, 0, \frac{27}{673}\sqrt{17}e^{12}, \frac{9}{673}\sqrt{186}e^{34}, \frac{9}{673}\sqrt{353}e^{35},$ $\frac{9}{673}\sqrt{170}e^{16} + \frac{9}{673}\sqrt{101}e^{45}$	$(-\frac{99}{673}, \frac{153}{673}, \frac{36}{673}, -\frac{81}{673}, \frac{36}{673}, \frac{54}{673}, -\frac{45}{673}, \frac{72}{673}, -\frac{45}{673})$ $+\frac{81}{673}\sqrt{6}e^3 \otimes e_9 + \frac{9}{673}\sqrt{334}e^2 \otimes e_8 - \frac{9}{673}\sqrt{401}e^5 \otimes e_7$	{12479, 13678, 24679, 378}
941:13	$0, 0, 0, 0, 0, \frac{27}{673}\sqrt{17}e^{12}, \frac{9}{673}\sqrt{186}e^{34}, \frac{9}{673}\sqrt{353}e^{35},$ $\frac{9}{673}\sqrt{170}e^{16} + \frac{9}{673}\sqrt{101}e^{45}$	$(-\frac{99}{673}, \frac{153}{673}, \frac{36}{673}, -\frac{81}{673}, \frac{36}{673}, \frac{54}{673}, -\frac{45}{673}, \frac{72}{673}, -\frac{45}{673})$ $+\frac{81}{673}\sqrt{6}e^3 \otimes e_9 + \frac{9}{673}\sqrt{334}e^2 \otimes e_8 + \frac{9}{673}\sqrt{401}e^5 \otimes e_7$	{12479, 13678, 24679, 378}
941:13	$0, 0, 0, 0, 0, \frac{5}{337}\sqrt{82}e^{12}, \frac{1}{337}\sqrt{11890}e^{34}, \frac{1}{337}\sqrt{11890}e^{35},$ $\frac{2}{337}\sqrt{2091}e^{16} + \frac{2}{337}\sqrt{1927}e^{45}$	$(-\frac{26}{337}, \frac{25}{337}, \frac{55}{337}, \frac{55}{337}, -\frac{82}{337}, -\frac{1}{337}, \frac{110}{337}, -\frac{27}{337}, -\frac{27}{337})$ $+\frac{2}{337}\sqrt{5617}e^4 \otimes e_8 + \frac{5}{337}\sqrt{1066}e^3 \otimes e_9$	{12479, 12589, 13456, 13678, 24679, 25689, 345, 378}
941:13	$0, 0, 0, 0, 0, \frac{5}{337}\sqrt{82}e^{12}, \frac{1}{337}\sqrt{11890}e^{34}, \frac{1}{337}\sqrt{11890}e^{35},$ $\frac{2}{337}\sqrt{2091}e^{16} + \frac{2}{337}\sqrt{1927}e^{45}$	$(-\frac{26}{337}, \frac{25}{337}, \frac{55}{337}, \frac{55}{337}, -\frac{82}{337}, -\frac{1}{337}, \frac{110}{337}, -\frac{27}{337}, -\frac{27}{337})$ $-\frac{2}{337}\sqrt{5617}e^4 \otimes e_8 + \frac{5}{337}\sqrt{1066}e^3 \otimes e_9$	{12479, 12589, 13456, 13678, 24679, 25689, 345, 378}
941:13	$0, 0, 0, 0, 0, \frac{9}{104}\sqrt{13}e^{12}, \frac{9}{26}\sqrt{3}e^{34}, \frac{9}{26}\sqrt{3}e^{35}, \frac{9}{13}e^{16} + \frac{9}{26}e^{45}$	$(-\frac{19}{104}, \frac{1}{8}, \frac{7}{13}, -\frac{25}{208}, -\frac{25}{208}, -\frac{3}{52}, \frac{87}{208}, \frac{87}{208}, -\frac{25}{104})$ $+\frac{9}{8}e^3 \otimes e_9$	{12479, 13456, 13678, 24679, 345, 378}
941:14	$0, 0, 0, 0, 0, \frac{11}{2463}\sqrt{402}e^{12}, \frac{11}{821}\sqrt{474}e^{13}, \frac{22}{2463}\sqrt{879}e^{23},$ $\frac{11}{2463}\sqrt{1722}e^{16} + \frac{22}{2463}\sqrt{714}e^{34}$	$(\frac{55}{821}, -\frac{121}{821}, \frac{55}{821}, -\frac{66}{821}, \frac{231}{821}, -\frac{66}{821}, \frac{110}{821}, -\frac{66}{821}, -\frac{11}{821})$ $+\frac{11}{821}\sqrt{358}e^5 \otimes e_7 + \frac{22}{2463}\sqrt{1245}e^3 \otimes e_4 + \frac{22}{2463}\sqrt{1410}e^1 \otimes e_8$	{12356, 2458}
941:14	$0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{1}{197}\sqrt{2346}e^{13}, \frac{1}{197}\sqrt{3706}e^{23},$ $\frac{4}{197}\sqrt{170}e^{16} + \frac{2}{197}\sqrt{629}e^{34}$	$(\frac{7}{197}, \frac{7}{197}, -\frac{34}{197}, \frac{55}{197}, \frac{18}{197}, \frac{14}{197}, -\frac{27}{197}, \frac{27}{197}, \frac{21}{197})$ $-\frac{1}{197}\sqrt{5406}e^2 \otimes e_7 + \frac{1}{197}\sqrt{6766}e^1 \otimes e_8$	{123459, 12349, 14567, 1467, 25689, 2689, 3578, 378}
941:14	$0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{1}{197}\sqrt{2346}e^{13}, \frac{1}{197}\sqrt{3706}e^{23},$ $\frac{4}{197}\sqrt{170}e^{16} + \frac{2}{197}\sqrt{629}e^{34}$	$(\frac{7}{197}, \frac{7}{197}, -\frac{34}{197}, \frac{55}{197}, \frac{18}{197}, \frac{14}{197}, -\frac{27}{197}, -\frac{27}{197}, \frac{21}{197})$ $+\frac{1}{197}\sqrt{5406}e^2 \otimes e_7 + \frac{1}{197}\sqrt{6766}e^1 \otimes e_8$	{123459, 12349, 14567, 1467, 25689, 2689, 3578, 378}
941:14	$0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{6}{1123}\sqrt{24171}e^{23},$ $\frac{2}{1123}\sqrt{3453}e^{16} + \frac{1}{1123}\sqrt{448890}e^{34}$	$(-\frac{10}{1123}, -\frac{13}{1123}, \frac{559}{1123}, -\frac{592}{1123}, \frac{168}{1123}, -\frac{23}{1123}, \frac{549}{1123}, \frac{546}{1123}, -\frac{33}{1123})$ $+\frac{1}{1123}\sqrt{2198410}e^3 \otimes e_4$	{1358, 138, 1457, 147, 35678, 3678, 456, 46}
941:14	$0, 0, 0, 0, 0, \frac{234}{4829}e^{12}, \frac{39}{4829}\sqrt{2334}e^{13}, \frac{78}{4829}\sqrt{607}e^{23},$ $\frac{48}{4829}\sqrt{47}e^{16} + \frac{117}{4829}\sqrt{114}e^{34}$	$(-\frac{78}{4829}, \frac{1131}{4829}, \frac{468}{4829}, -\frac{1053}{4829}, \frac{936}{4829}, \frac{273}{4829}, -\frac{390}{4829}, \frac{1599}{4829}, -\frac{585}{4829})$ $+\frac{39}{4829}\sqrt{1102}e^5 \otimes e_9 + \frac{39}{4829}\sqrt{3902}e^3 \otimes e_4 + \frac{78}{4829}\sqrt{971}e^2 \otimes e_7$	{12356, 2458}
941:14	$0, 0, 0, 0, 0, \frac{8}{3563}\sqrt{2881}e^{12}, \frac{8}{3563}\sqrt{39818}e^{13}, \frac{24}{3563}\sqrt{3827}e^{23},$ $\frac{40}{3563}\sqrt{430}e^{16} + \frac{8}{3563}\sqrt{7181}e^{34}$	$(-\frac{400}{3563}, \frac{1060}{3563}, \frac{12}{509}, \frac{176}{3563}, -\frac{1292}{3563}, \frac{660}{3563}, -\frac{316}{3563}, \frac{1144}{3563}, \frac{260}{3563})$ $+\frac{8}{3563}\sqrt{68155}e^2 \otimes e_7 + \frac{8}{3563}\sqrt{70305}e^3 \otimes e_5$	{1234, 145679, 2568, 3789}
941:14	$0, 0, 0, 0, 0, \frac{11}{761}\sqrt{210}e^{12}, \frac{1}{761}\sqrt{53130}e^{13}, \frac{1}{761}\sqrt{71610}e^{23},$ $\frac{1}{761}\sqrt{22330}e^{16} + \frac{42}{761}\sqrt{110}e^{34}$	$(-\frac{56}{761}, \frac{135}{761}, -\frac{153}{761}, \frac{176}{761}, \frac{408}{761}, \frac{79}{761}, -\frac{209}{761}, -\frac{18}{761}, \frac{23}{761})$ $+\frac{1}{761}\sqrt{271810}e^4 \otimes e_7 + \frac{3}{761}\sqrt{28490}e^5 \otimes e_9$	{13456, 15678, 236789, 2469}
941:14	$0, 0, 0, 0, 0, \frac{10}{2809}\sqrt{14837}e^{12}, \frac{20}{2809}\sqrt{2590}e^{13}, \frac{10}{2809}\sqrt{8621}e^{23},$ $\frac{10}{2809}\sqrt{3478}e^{16} + \frac{40}{2809}\sqrt{777}e^{34}$	$(-\frac{253}{2809}, \frac{1082}{2809}, -\frac{515}{2809}, \frac{1091}{2809}, -\frac{759}{2809}, \frac{829}{2809}, -\frac{768}{2809}, \frac{567}{2809}, \frac{576}{2809})$ $+\frac{10}{2809}\sqrt{40441}e^4 \otimes e_5 + \frac{10}{2809}\sqrt{51134}e^2 \otimes e_7$	{1234, 14679, 2568, 35789}
941:14	$0, 0, 0, 0, 0, \frac{4}{311}\sqrt{834}e^{12}, \frac{12}{311}\sqrt{170}e^{13}, \frac{8}{311}\sqrt{201}e^{23},$ $\frac{24}{311}\sqrt{10}e^{16} + \frac{4}{311}\sqrt{618}e^{34}$	$(\frac{28}{311}, \frac{30}{311}, -\frac{43}{311}, \frac{129}{311}, -\frac{116}{311}, \frac{58}{311}, -\frac{15}{311}, -\frac{13}{311}, \frac{86}{311})$ $+\frac{4}{311}\sqrt{2370}e^4 \otimes e_7 + \frac{4}{311}\sqrt{2658}e^1 \otimes e_5$	{1346, 1678, 2356789, 24569}
941:14	$0, 0, 0, 0, 0, \frac{2}{3713}\sqrt{380190}e^{12}, \frac{2}{3713}\sqrt{22287}e^{13}, \frac{2}{3713}\sqrt{504298}e^{23},$ $\frac{62}{3713}\sqrt{437}e^{16} + \frac{4}{3713}\sqrt{62054}e^{34}$	$(\frac{484}{3713}, -\frac{215}{3713}, -\frac{175}{3713}, \frac{928}{3713}, -\frac{1089}{3713}, \frac{269}{3713}, \frac{309}{3713}, -\frac{390}{3713}, \frac{753}{3713})$ $+\frac{138}{3713}\sqrt{133}e^2 \otimes e_5 + \frac{8}{3713}\sqrt{52003}e^1 \otimes e_8$	{123479, 1456, 26789, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:14	$0, 0, 0, 0, 0, \frac{1}{1213}\sqrt{403374}e^{12}, \frac{1}{1213}\sqrt{239982}e^{13}, \frac{19}{1213}\sqrt{1702}e^{23},$ $\frac{4}{1213}\sqrt{46805}e^{16} + \frac{4}{1213}\sqrt{26381}e^{34}$	$(\frac{395}{1213}, -\frac{400}{1213}, -\frac{56}{1213}, \frac{446}{1213}, \frac{198}{1213}, -\frac{5}{1213}, \frac{339}{1213}, -\frac{456}{1213}, \frac{390}{1213})$ $+ \frac{1}{1213}\sqrt{1727530}e^1 \otimes e_8$	{123459, 12349, 14567, 1467, 25689, 2689, 3578, 378}
941:14	$0, 0, 0, 0, 0, \frac{70}{2609}\sqrt{253}e^{12}, \frac{14}{2609}\sqrt{1265}e^{13}, \frac{4}{2609}\sqrt{53130}e^{23},$ $\frac{2}{2609}\sqrt{301070}e^{16} + \frac{22}{2609}\sqrt{1610}e^{34}$	$(-\frac{508}{2609}, \frac{847}{2609}, -\frac{255}{2609}, \frac{86}{2609}, \frac{1441}{2609}, \frac{339}{2609}, -\frac{763}{2609}, \frac{592}{2609}, -\frac{169}{2609})$ $+ \frac{14}{2609}\sqrt{18285}e^5 \otimes e_9 + \frac{8}{2609}\sqrt{58765}e^2 \otimes e_7$	{1239, 1567, 24689, 34578}
941:14	$0, 0, 0, 0, 0, \frac{1}{279}\sqrt{13727}e^{12}, \frac{1}{558}\sqrt{37842}e^{13}, \frac{1}{279}\sqrt{5565}e^{23},$ $\frac{7}{558}\sqrt{371}e^{16} + \frac{2}{279}\sqrt{4081}e^{34}$	$(-\frac{35}{558}, \frac{199}{558}, -\frac{23}{124}, \frac{5}{12}, -\frac{86}{279}, \frac{82}{279}, -\frac{277}{1116}, \frac{191}{1116}, \frac{43}{186})$ $+ \frac{1}{558}\sqrt{189210}e^4 \otimes e_7 + \frac{5}{558}\sqrt{7049}e^2 \otimes e_5$	{1234, 1278, 35789, 459}
941:14	$0, 0, 0, 0, 0, \frac{4}{2883}\sqrt{19939}e^{12}, \frac{4}{2883}\sqrt{68707}e^{13}, \frac{4}{2883}\sqrt{97282}e^{23},$ $\frac{20}{961}\sqrt{254}e^{16} + \frac{4}{2883}\sqrt{14351}e^{34}$	$(\frac{210}{961}, -\frac{610}{2883}, \frac{224}{2883}, \frac{142}{961}, -\frac{264}{961}, \frac{20}{2883}, \frac{854}{2883}, -\frac{386}{2883}, \frac{650}{2883})$ $+ \frac{4}{2883}\sqrt{140335}e^3 \otimes e_5 + \frac{4}{2883}\sqrt{186055}e^1 \otimes e_8$	{12349, 14567, 25689, 378}
941:14	$0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{6279}e^{12}, \frac{12}{3179}\sqrt{3634}e^{13}, \frac{84}{3179}\sqrt{391}e^{23},$ $\frac{12}{3179}\sqrt{437}e^{16} + \frac{12}{3179}\sqrt{5727}e^{34}$	$(-\frac{62}{3179}, \frac{64}{289}, -\frac{890}{3179}, \frac{1470}{3179}, \frac{350}{3179}, \frac{642}{3179}, -\frac{56}{187}, -\frac{186}{3179}, \frac{580}{3179})$ $+ \frac{24}{3179}\sqrt{8395}e^2 \otimes e_7 - \frac{444}{3179}\sqrt{23}e^4 \otimes e_8$	{1234, 12345, 145679, 14679, 2568, 268, 35789, 3789}
941:14	$0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{6279}e^{12}, \frac{12}{3179}\sqrt{3634}e^{13}, \frac{84}{3179}\sqrt{391}e^{23},$ $\frac{12}{3179}\sqrt{437}e^{16} + \frac{12}{3179}\sqrt{5727}e^{34}$	$(-\frac{62}{3179}, \frac{64}{289}, -\frac{890}{3179}, \frac{1470}{3179}, \frac{350}{3179}, \frac{642}{3179}, -\frac{56}{187}, -\frac{186}{3179}, \frac{580}{3179})$ $+ \frac{24}{3179}\sqrt{8395}e^2 \otimes e_7 + \frac{444}{3179}\sqrt{23}e^4 \otimes e_8$	{1234, 12345, 145679, 14679, 2568, 268, 35789, 3789}
941:14	$0, 0, 0, 0, 0, \frac{2}{1123}\sqrt{3453}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{1}{1123}\sqrt{448890}e^{23},$ $\frac{1}{1123}\sqrt{453494}e^{16} + \frac{6}{1123}\sqrt{24171}e^{34}$	$(-\frac{10}{1123}, \frac{369}{1123}, -\frac{396}{1123}, \frac{745}{1123}, \frac{168}{1123}, \frac{359}{1123}, -\frac{406}{1123}, -\frac{27}{1123}, \frac{349}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_7$	{134, 1345, 1578, 178, 235789, 23789, 2459, 249}
941:14	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{5809}e^{12}, \frac{2}{297}\sqrt{8007}e^{13}, \frac{4}{297}\sqrt{314}e^{23},$ $\frac{2}{297}\sqrt{13502}e^{16} + \frac{2}{99}\sqrt{1570}e^{34}$	$(-\frac{20}{297}, \frac{23}{297}, \frac{7}{99}, -\frac{38}{297}, 1, \frac{1}{99}, \frac{1}{297}, \frac{4}{27}, -\frac{17}{297})$ $+ \frac{14}{297}\sqrt{785}e^5 \otimes e_9$	{123789, 1249, 134567, 1568, 23689, 24679, 345, 578}
941:14	$0, 0, 0, 0, 0, \frac{3}{287}\sqrt{2513}e^{12}, \frac{1}{287}\sqrt{13283}e^{13}, \frac{1}{287}\sqrt{19027}e^{23},$ $\frac{4}{287}\sqrt{718}e^{16} + \frac{2}{287}\sqrt{20822}e^{34}$	$(\frac{15}{82}, \frac{89}{574}, -\frac{43}{574}, \frac{171}{287}, -\frac{188}{287}, \frac{97}{287}, \frac{31}{287}, \frac{23}{287}, \frac{299}{574})$ $+ \frac{5}{287}\sqrt{6821}e^4 \otimes e_5$	{123478, 125, 135679, 14689, 23468, 2567, 359, 4789}
941:14	$0, 0, 0, 0, 0, \frac{1}{761}\sqrt{22330}e^{12}, \frac{1}{761}\sqrt{53130}e^{13}, \frac{42}{761}\sqrt{110}e^{23},$ $\frac{11}{761}\sqrt{210}e^{16} + \frac{1}{761}\sqrt{71610}e^{34}$	$(-\frac{56}{761}, \frac{127}{761}, \frac{200}{761}, -\frac{185}{761}, -\frac{258}{761}, \frac{71}{761}, \frac{144}{761}, \frac{327}{761}, \frac{15}{761})$ $+ \frac{1}{761}\sqrt{271810}e^3 \otimes e_4 + \frac{3}{761}\sqrt{28490}e^2 \otimes e_5$	{13568, 14567, 3578, 45}
941:14	$0, 0, 0, 0, 0, \frac{6}{301}\sqrt{130}e^{12}, \frac{15}{301}\sqrt{15}e^{13}, \frac{3}{301}\sqrt{705}e^{23},$ $\frac{6}{301}\sqrt{165}e^{16} + \frac{3}{301}\sqrt{370}e^{34}$	$(\frac{6}{301}, \frac{6}{301}, -\frac{45}{301}, \frac{9}{43}, \frac{9}{43}, \frac{12}{301}, -\frac{39}{301}, -\frac{39}{301}, \frac{18}{301})$ $- \frac{15}{301}\sqrt{41}e^2 \otimes e_7 + \frac{3}{301}\sqrt{1355}e^1 \otimes e_8 + \frac{3}{301}\sqrt{370}e^5 \otimes e_9$	{12349, 14567, 2689, 3578}
941:14	$0, 0, 0, 0, 0, \frac{6}{301}\sqrt{130}e^{12}, \frac{15}{301}\sqrt{15}e^{13}, \frac{3}{301}\sqrt{705}e^{23},$ $\frac{6}{301}\sqrt{165}e^{16} + \frac{3}{301}\sqrt{370}e^{34}$	$(\frac{6}{301}, \frac{6}{301}, -\frac{45}{301}, \frac{9}{43}, \frac{9}{43}, \frac{12}{301}, -\frac{39}{301}, -\frac{39}{301}, \frac{18}{301})$ $+ \frac{15}{301}\sqrt{41}e^2 \otimes e_7 + \frac{3}{301}\sqrt{1355}e^1 \otimes e_8 + \frac{3}{301}\sqrt{370}e^5 \otimes e_9$	{12349, 14567, 2689, 3578}
941:14	$0, 0, 0, 0, 0, \frac{550}{2209}\sqrt{3}e^{12}, \frac{100}{2209}\sqrt{33}e^{13}, \frac{50}{2209}\sqrt{385}e^{23},$ $\frac{50}{2209}\sqrt{506}e^{16} + \frac{100}{2209}\sqrt{11}e^{34}$	$(\frac{605}{2209}, -\frac{460}{2209}, -\frac{185}{2209}, \frac{935}{2209}, -\frac{315}{2209}, \frac{145}{2209}, \frac{420}{2209}, -\frac{645}{2209}, \frac{750}{2209})$ $+ \frac{150}{2209}\sqrt{67}e^4 \otimes e_5 + \frac{50}{2209}\sqrt{1318}e^1 \otimes e_8$	{12349, 1467, 25689, 3578}
941:14	$0, 0, 0, 0, 0, \frac{20}{331}\sqrt{39}e^{12}, \frac{90}{331}\sqrt{2}e^{13}, \frac{80}{331}\sqrt{6}e^{23},$ $\frac{30}{331}\sqrt{3}e^{16} + \frac{10}{331}\sqrt{165}e^{34}$	$(\frac{15}{331}, -\frac{50}{331}, \frac{65}{331}, -\frac{85}{331}, \frac{165}{331}, -\frac{35}{331}, \frac{80}{331}, \frac{15}{331}, -\frac{20}{331})$ $+ \frac{10}{331}\sqrt{417}e^5 \otimes e_8 + \frac{10}{331}\sqrt{498}e^3 \otimes e_4$	{12356, 124678, 2357, 248}
941:14	$0, 0, 0, 0, 0, \frac{2}{451}\sqrt{7437}e^{12}, \frac{2}{451}\sqrt{18291}e^{13}, \frac{12}{451}\sqrt{201}e^{23},$ $\frac{3}{451}\sqrt{1273}e^{16} + \frac{3}{451}\sqrt{2881}e^{34}$	$(-\frac{95}{902}, \frac{34}{451}, \frac{70}{451}, -\frac{131}{451}, \frac{447}{902}, -\frac{27}{451}, \frac{45}{902}, \frac{104}{451}, -\frac{61}{451})$ $+ \frac{1}{451}\sqrt{76983}e^5 \otimes e_7 + \frac{1}{451}\sqrt{91455}e^3 \otimes e_4$	{1358, 147, 3678, 456}
941:14	$0, 0, 0, 0, 0, \frac{2}{2889}\sqrt{261595}e^{12}, \frac{10}{2889}\sqrt{339}e^{13}, \frac{4}{2889}\sqrt{66670}e^{23},$ $\frac{2}{2889}\sqrt{550310}e^{16} + \frac{10}{963}\sqrt{1130}e^{34}$	$(\frac{424}{2889}, -\frac{601}{2889}, -\frac{35}{963}, \frac{352}{2889}, \frac{51}{107}, -\frac{59}{963}, \frac{319}{2889}, -\frac{706}{2889}, \frac{247}{2889})$ $+ \frac{2}{2889}\sqrt{589295}e^5 \otimes e_9 + \frac{4}{963}\sqrt{23730}e^1 \otimes e_8$	{123479, 1456, 26789, 358}
941:14	$0, 0, 0, 0, 0, \frac{24}{311}\sqrt{10}e^{12}, \frac{12}{311}\sqrt{170}e^{13}, \frac{4}{311}\sqrt{618}e^{23},$ $\frac{4}{311}\sqrt{834}e^{16} + \frac{8}{311}\sqrt{201}e^{34}$	$(\frac{28}{311}, -\frac{68}{933}, \frac{266}{933}, -\frac{166}{933}, -\frac{116}{311}, \frac{16}{933}, \frac{350}{933}, \frac{66}{311}, \frac{100}{933})$ $+ \frac{4}{311}\sqrt{2370}e^3 \otimes e_4 + \frac{4}{311}\sqrt{2658}e^1 \otimes e_5$	{1368, 1467, 3578, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:14	$0, 0, 0, 0, 0, \frac{88}{1671}\sqrt{6}e^{12}, \frac{11}{557}\sqrt{170}e^{13}, \frac{44}{1671}\sqrt{165}e^{23},$ $\frac{22}{1671}\sqrt{555}e^{16} + \frac{11}{1671}\sqrt{1338}e^{34}$	$(\frac{66}{557}, -\frac{121}{557}, \frac{66}{557}, -\frac{55}{557}, \frac{132}{557}, -\frac{55}{557}, \frac{132}{557}, -\frac{55}{557}, \frac{11}{557})$ $+ \frac{11}{557}\sqrt{170}e^5 \otimes e_9 + \frac{22}{1671}\sqrt{1119}e^1 \otimes e_8 + \frac{253}{1671}\sqrt{6}e^3 \otimes e_4$	{14567, 3578}
941:14	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718}e^{12}, \frac{1}{287}\sqrt{13283}e^{13}, \frac{2}{287}\sqrt{20822}e^{23},$ $\frac{3}{287}\sqrt{2513}e^{16} + \frac{1}{287}\sqrt{19027}e^{34}$	$(\frac{15}{82}, -\frac{101}{574}, -\frac{43}{574}, \frac{76}{287}, 1, \frac{2}{287}, \frac{31}{287}, -\frac{72}{287}, \frac{109}{574})$ $+ \frac{5}{287}\sqrt{6821}e^5 \otimes e_8$	{123567, 12468, 134789, 159, 235, 2478, 34689, 5679}
941:14	$0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246}e^{12}, \frac{37}{913}\sqrt{30}e^{13}, \frac{37}{4565}\sqrt{534}e^{23},$ $\frac{37}{4565}\sqrt{1762}e^{16} + \frac{222}{913}e^{34}$	$(\frac{74}{913}, -\frac{333}{4565}, -\frac{666}{4565}, \frac{1073}{4565}, \frac{1776}{4565}, \frac{37}{4565}, -\frac{296}{4565}, -\frac{999}{4565}, \frac{37}{415})$ $+ \frac{222}{4565}\sqrt{94}e^1 \otimes e_8 + \frac{222}{913}\sqrt{3}e^5 \otimes e_9 + \frac{37}{4565}\sqrt{2194}e^4 \otimes e_7$	{1567, 24689}
941:14	$0, 0, 0, 0, 0, \frac{4}{3693}\sqrt{46057}e^{12}, \frac{2}{3693}\sqrt{700183}e^{13}, \frac{4}{3693}\sqrt{2915}e^{23},$ $\frac{2}{1231}\sqrt{42559}e^{16} + \frac{2}{3693}\sqrt{608069}e^{34}$	$(\frac{15}{1231}, \frac{569}{3693}, -\frac{92}{1231}, \frac{935}{3693}, -\frac{1442}{3693}, \frac{614}{3693}, -\frac{77}{1231}, \frac{293}{3693}, \frac{659}{3693})$ $+ \frac{14}{3693}\sqrt{20405}e^3 \otimes e_5 + \frac{22}{3693}\sqrt{8215}e^4 \otimes e_7$	{1348, 157, 2379, 24589}
941:14	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502}e^{12}, \frac{2}{297}\sqrt{8007}e^{13}, \frac{2}{99}\sqrt{1570}e^{23},$ $\frac{2}{297}\sqrt{5809}e^{16} + \frac{4}{297}\sqrt{314}e^{34}$	$(-\frac{20}{297}, \frac{11}{27}, \frac{7}{99}, \frac{20}{99}, -\frac{193}{297}, \frac{101}{297}, \frac{1}{297}, \frac{142}{297}, \frac{3}{11})$ $+ \frac{14}{297}\sqrt{785}e^2 \otimes e_5$	{123479, 1289, 135678, 1456, 23469, 26789, 358, 457}
941:14	$0, 0, 0, 0, 0, \frac{12}{233}\sqrt{77}e^{12}, \frac{1}{233}\sqrt{28182}e^{13}, \frac{7}{233}\sqrt{462}e^{23},$ $\frac{12}{233}\sqrt{77}e^{16} + \frac{7}{233}\sqrt{462}e^{34}$	$(\frac{25}{233}, \frac{13}{233}, \frac{74}{233}, -\frac{11}{233}, -\frac{157}{233}, \frac{38}{233}, \frac{99}{233}, \frac{87}{233}, \frac{63}{233})$ $+ \frac{3}{233}\sqrt{10010}e^3 \otimes e_5$	{12369, 12456789, 1348, 157, 2379, 24589, 34678, 56}
941:14	$0, 0, 0, 0, 0, \frac{8}{1119}\sqrt{141}e^{12}, \frac{2}{373}\sqrt{3995}e^{13}, \frac{2}{1119}\sqrt{51465}e^{23},$ $\frac{4}{1119}\sqrt{7755}e^{16} + \frac{2}{1119}\sqrt{34827}e^{34}$	$(\frac{59}{373}, -\frac{94}{373}, \frac{59}{373}, -\frac{35}{373}, \frac{33}{373}, -\frac{35}{373}, \frac{118}{373}, -\frac{35}{373}, \frac{24}{373})$ $+ \frac{2}{1119}\sqrt{63591}e^3 \otimes e_4 + \frac{2}{1119}\sqrt{80229}e^1 \otimes e_8$	{14567, 1467, 3578, 378}
941:14	$0, 0, 0, 0, 0, \frac{7}{1193}\sqrt{10726}e^{12}, \frac{14}{1193}\sqrt{3287}e^{13}, \frac{2}{1193}\sqrt{167118}e^{23},$ $\frac{2}{1193}\sqrt{12110}e^{16} + \frac{2}{1193}\sqrt{71449}e^{34}$	$(-\frac{295}{1193}, \frac{700}{1193}, -\frac{216}{1193}, \frac{326}{1193}, \frac{208}{1193}, \frac{405}{1193}, -\frac{511}{1193}, \frac{484}{1193}, \frac{110}{1193})$ $+ \frac{1}{1193}\sqrt{2385670}e^2 \otimes e_7$	{123459, 12349, 14567, 1467, 25689, 2689, 3578, 378}
941:14	$0, 0, 0, 0, 0, \frac{4}{3609}\sqrt{46155}e^{12}, \frac{2}{3609}\sqrt{313130}e^{13}, \frac{4}{3609}\sqrt{263355}e^{23},$ $\frac{2}{3609}\sqrt{134845}e^{16} + \frac{2}{3609}\sqrt{391865}e^{34}$	$(-\frac{113}{1203}, \frac{754}{3609}, -\frac{239}{1203}, \frac{793}{3609}, \frac{1847}{3609}, \frac{415}{3609}, -\frac{352}{1203}, \frac{37}{3609}, \frac{76}{3609})$ $+ \frac{2}{3609}\sqrt{1345735}e^5 \otimes e_8 + \frac{2}{3609}\sqrt{1594610}e^2 \otimes e_7$	{123459, 14567, 2689, 378}
941:14	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{8490}e^{12}, \frac{1}{223}\sqrt{51506}e^{13}, \frac{2}{223}\sqrt{1415}e^{23},$ $\frac{1}{223}\sqrt{8490}e^{16} + \frac{2}{223}\sqrt{1415}e^{34}$	$(-\frac{25}{223}, \frac{61}{223}, -\frac{35}{223}, \frac{46}{223}, 1, \frac{36}{223}, -\frac{60}{223}, \frac{26}{223}, \frac{11}{223})$ $+ \frac{1}{223}\sqrt{105842}e^5 \otimes e_7$	{12345689, 12679, 135, 1478, 234789, 259, 367, 4568}
941:14	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{15}e^{12}, \frac{2}{29}\sqrt{15}e^{13}, \frac{1}{58}\sqrt{390}e^{23},$ $\frac{1}{58}\sqrt{5}e^{16} + \frac{1}{58}\sqrt{190}e^{34}$	$(-\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{4}{29}, \frac{9}{29}, 0, -\frac{2}{29}, \frac{4}{29}, -\frac{3}{29})$ $+ \frac{1}{58}\sqrt{295}e^5 \otimes e_8 + \frac{1}{58}\sqrt{385}e^2 \otimes e_7 + \frac{1}{58}\sqrt{415}e^3 \otimes e_4$	{12356, 248}
941:14	$0, 0, 0, 0, 0, \frac{7}{558}\sqrt{371}e^{12}, \frac{1}{558}\sqrt{37842}e^{13}, \frac{2}{279}\sqrt{4081}e^{23},$ $\frac{1}{279}\sqrt{13727}e^{16} + \frac{1}{279}\sqrt{5565}e^{34}$	$(-\frac{35}{558}, \frac{1}{279}, \frac{101}{372}, -\frac{439}{1116}, \frac{101}{372}, -\frac{11}{186}, \frac{233}{1116}, \frac{307}{1116}, -\frac{34}{279})$ $+ \frac{1}{558}\sqrt{189210}e^3 \otimes e_4 + \frac{5}{558}\sqrt{7049}e^5 \otimes e_9$	{1389, 1479, 36789, 469}
941:14	$0, 0, 0, 0, 0, \frac{3}{1489}\sqrt{18318}e^{12}, \frac{3}{1489}\sqrt{50126}e^{13}, \frac{3}{1489}\sqrt{35926}e^{23},$ $\frac{12}{1489}\sqrt{2627}e^{16} + \frac{12}{1489}\sqrt{2201}e^{34}$	$(\frac{215}{1489}, -\frac{224}{1489}, -\frac{200}{1489}, \frac{406}{1489}, \frac{654}{1489}, -\frac{9}{1489}, \frac{15}{1489}, -\frac{424}{1489}, \frac{206}{1489})$ $+ \frac{12}{1489}\sqrt{4402}e^5 \otimes e_7 + \frac{3}{1489}\sqrt{118570}e^1 \otimes e_8$	{123459, 1467, 25689, 378}
941:14	$0, 0, 0, 0, 0, \frac{200}{3769}\sqrt{5}e^{12}, \frac{50}{3769}\sqrt{1146}e^{13}, \frac{50}{3769}\sqrt{1110}e^{23},$ $\frac{300}{3769}\sqrt{2}e^{16} + \frac{50}{3769}\sqrt{627}e^{34}$	$(-\frac{691}{3769}, \frac{986}{3769}, \frac{427}{3769}, -\frac{823}{3769}, \frac{303}{3769}, \frac{295}{3769}, -\frac{264}{3769}, \frac{1413}{3769}, -\frac{396}{3769})$ $+ \frac{50}{3769}\sqrt{1713}e^2 \otimes e_7 + \frac{50}{3769}\sqrt{1753}e^3 \otimes e_4$	{1457, 147, 35678, 3678}
941:14	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{29962}e^{12}, \frac{3}{239}\sqrt{2110}e^{13}, \frac{1}{239}\sqrt{8018}e^{23},$ $\frac{1}{239}\sqrt{29962}e^{16} + \frac{1}{239}\sqrt{8018}e^{34}$	$(\frac{52}{239}, -\frac{12}{239}, \frac{33}{239}, \frac{59}{239}, -\frac{159}{239}, \frac{40}{239}, \frac{85}{239}, \frac{21}{239}, \frac{92}{239})$ $+ \frac{1}{239}\sqrt{83978}e^1 \otimes e_5$	{123489, 1279, 136, 14678, 23456789, 2569, 357, 458}
941:14	$0, 0, 0, 0, 0, \frac{3}{1807}\sqrt{58290}e^{12}, \frac{3}{1807}\sqrt{52930}e^{13}, \frac{3}{1807}\sqrt{14338}e^{23},$ $\frac{3}{1807}\sqrt{37654}e^{16} + \frac{201}{1807}\sqrt{6}e^{34}$	$(-\frac{74}{1807}, \frac{408}{1807}, -\frac{121}{1807}, \frac{381}{1807}, -\frac{677}{1807}, \frac{334}{1807}, -\frac{15}{1807}, \frac{287}{1807}, \frac{20}{139})$ $+ \frac{3}{1807}\sqrt{114838}e^1 \otimes e_5 + \frac{6}{1807}\sqrt{25795}e^2 \otimes e_7$	{12349, 1467, 25689, 3578}
941:14	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{42}e^{12}, \frac{9}{155}\sqrt{70}e^{13}, \frac{6}{155}\sqrt{69}e^{23},$ $\frac{3}{155}\sqrt{258}e^{16} + \frac{3}{155}\sqrt{546}e^{34}$	$(\frac{33}{620}, \frac{49}{620}, -\frac{35}{124}, \frac{29}{62}, \frac{153}{310}, \frac{41}{310}, -\frac{71}{310}, -\frac{63}{310}, \frac{23}{124})$ $+ \frac{3}{155}\sqrt{1434}e^5 \otimes e_8 + \frac{6}{155}\sqrt{471}e^4 \otimes e_7$	{1348, 157, 23579, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:15	$0, 0, 0, 0, 0, \frac{17}{1905}\sqrt{1027}e^{12}, \frac{17}{1905}\sqrt{543}e^{13},$ $\frac{17}{1905}\sqrt{835}e^{14} + \frac{34}{1905}\sqrt{62}e^{23}, \frac{374}{1905}\sqrt{2}e^{16}$	$(\frac{68}{1905}, \frac{34}{635}, -\frac{17}{127}, -\frac{221}{1905}, \frac{527}{1905}, \frac{34}{381}, -\frac{187}{1905}, -\frac{51}{635}, \frac{238}{1905})$ $+ \frac{17}{1905}\sqrt{1198}e^2 \otimes e_7 + \frac{17}{1905}\sqrt{1558}e^1 \otimes e_4 + \frac{17}{1905}\sqrt{773}e^5 \otimes e_9$	{1239, 1567}
941:15	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{105}e^{12}, \frac{2}{55}\sqrt{770}e^{13}, \frac{2}{55}\sqrt{35}e^{14} + \frac{2}{55}\sqrt{105}e^{23},$ $\frac{4}{55}\sqrt{35}e^{16}$	$(-\frac{1}{11}, \frac{3}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{3}{11}, \frac{1}{11}, \frac{1}{11})$ $+ \frac{2}{55}\sqrt{1610}e^5 \otimes e_7$	{12345689, 12679, 135, 1478, 23789, 2459, 3467, 568}
941:15	$0, 0, 0, 0, 0, \frac{77}{1999}\sqrt{6}e^{12}, \frac{99}{1999}\sqrt{22}e^{13},$ $\frac{66}{1999}\sqrt{42}e^{14} + \frac{11}{1999}\sqrt{3810}e^{23}, \frac{33}{1999}\sqrt{202}e^{16}$	$(-\frac{242}{1999}, \frac{143}{1999}, \frac{22}{1999}, \frac{407}{1999}, \frac{528}{1999}, -\frac{99}{1999}, -\frac{220}{1999}, \frac{165}{1999}, -\frac{341}{1999})$ $+ \frac{11}{1999}\sqrt{2238}e^5 \otimes e_8 + \frac{11}{1999}\sqrt{4794}e^3 \otimes e_9 + \frac{264}{1999}\sqrt{7}e^2 \otimes e_7$	{2689, 378}
941:15	$0, 0, 0, 0, 0, \frac{2}{3161}\sqrt{472839}e^{12}, \frac{8}{3161}\sqrt{22191}e^{13},$ $\frac{2}{3161}\sqrt{26743}e^{14} + \frac{2}{3161}\sqrt{51779}e^{23}, \frac{6}{3161}\sqrt{26174}e^{16}$	$(-\frac{3}{3161}, \frac{759}{3161}, -\frac{376}{3161}, \frac{386}{3161}, -\frac{1141}{3161}, \frac{756}{3161}, -\frac{379}{3161}, \frac{383}{3161}, \frac{753}{3161})$ $+ \frac{2}{3161}\sqrt{763598}e^2 \otimes e_7 + \frac{4}{3161}\sqrt{210530}e^1 \otimes e_5$	{1239, 167, 25689, 3578}
941:15	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{314}e^{12}, \frac{2}{287}\sqrt{6123}e^{13}, \frac{8}{287}\sqrt{785}e^{14} + \frac{2}{287}\sqrt{314}e^{23},$ $\frac{2}{287}\sqrt{12874}e^{16}$	$(-\frac{76}{287}, \frac{45}{287}, \frac{86}{287}, \frac{207}{287}, \frac{7}{41}, -\frac{31}{287}, \frac{10}{287}, \frac{131}{287}, -\frac{107}{287})$ $+ \frac{2}{287}\sqrt{37366}e^4 \otimes e_9$	{12589, 1289, 1456, 146, 23569, 2369, 3458, 348}
941:15	$0, 0, 0, 0, 0, \frac{2}{2785}\sqrt{127237}e^{12}, \frac{2}{2785}\sqrt{241703}e^{13},$ $\frac{44}{2785}\sqrt{129}e^{14} + \frac{2}{2785}\sqrt{148049}e^{23}, \frac{2}{2785}\sqrt{379346}e^{16}$	$(\frac{49}{2785}, -\frac{281}{2785}, \frac{763}{2785}, \frac{433}{2785}, -\frac{897}{2785}, -\frac{232}{2785}, \frac{812}{2785}, \frac{482}{2785}, -\frac{183}{2785})$ $+ \frac{2}{2785}\sqrt{566654}e^1 \otimes e_5 + \frac{2}{2785}\sqrt{608278}e^3 \otimes e_9$	{124789, 13468, 25689, 3578}
941:15	$0, 0, 0, 0, 0, \frac{6}{625}\sqrt{1830}e^{12}, \frac{6}{625}\sqrt{2730}e^{13}, \frac{6}{625}\sqrt{1515}e^{14} + \frac{72}{625}\sqrt{5}e^{23},$ $\frac{6}{625}\sqrt{1590}e^{16}$	$(\frac{18}{125}, -\frac{3}{125}, -\frac{3}{25}, -\frac{36}{125}, \frac{57}{125}, \frac{3}{125}, \frac{3}{125}, -\frac{18}{125}, \frac{33}{125})$ $+ \frac{12}{125}\sqrt{5}e^1 \otimes e_4 + \frac{6}{625}\sqrt{3390}e^5 \otimes e_7$	{1279, 1356, 24569, 347}
941:15	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{105}e^{12}, \frac{2}{55}\sqrt{35}e^{13}, \frac{2}{55}\sqrt{770}e^{14} + \frac{2}{55}\sqrt{105}e^{23},$ $\frac{4}{55}\sqrt{35}e^{16}$	$(-\frac{1}{11}, \frac{3}{11}, \frac{13}{55}, \frac{3}{5}, -\frac{37}{55}, \frac{11}{11}, \frac{8}{55}, \frac{28}{55}, \frac{1}{11})$ $+ \frac{2}{55}\sqrt{1610}e^4 \otimes e_5$	{12356789, 12469, 1347, 158, 23489, 2579, 356, 4678}
941:15	$0, 0, 0, 0, 0, \frac{9}{296}\sqrt{498}e^{12}, \frac{1}{296}\sqrt{23655}e^{13}, \frac{1}{296}\sqrt{23655}e^{14} + \frac{3}{148}\sqrt{581}e^{23},$ $\frac{1}{296}\sqrt{33366}e^{16}$	$(\frac{53}{296}, \frac{11}{296}, \frac{89}{592}, \frac{5}{296}, -\frac{49}{74}, \frac{8}{37}, \frac{195}{592}, \frac{3}{16}, \frac{117}{296})$ $+ \frac{3}{148}\sqrt{3403}e^1 \otimes e_5$	{12389, 12479, 1346, 1678, 23456789, 2569, 357, 458}
941:15	$0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1246}e^{12}, \frac{1}{72}\sqrt{1335}e^{13}, \frac{1}{72}\sqrt{1335}e^{14} + \frac{1}{72}\sqrt{1246}e^{23},$ $\frac{1}{72}\sqrt{5162}e^{16}$	$(-\frac{1}{9}, -\frac{1}{72}, \frac{3}{16}, \frac{41}{144}, 1, -\frac{1}{8}, \frac{11}{144}, \frac{25}{144}, -\frac{17}{72})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_9$	{12379, 12489, 1345678, 156, 23469, 26789, 358, 457}
941:15	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{38}e^{12}, \frac{1}{27}\sqrt{114}e^{13}, \frac{2}{27}\sqrt{38}e^{14} + \frac{1}{27}\sqrt{38}e^{23},$ $\frac{1}{27}\sqrt{114}e^{16}$	$(-\frac{2}{9}, \frac{5}{27}, \frac{1}{27}, \frac{4}{9}, \frac{14}{27}, -\frac{1}{27}, -\frac{5}{27}, \frac{2}{9}, -\frac{7}{27})$ $+ \frac{1}{27}\sqrt{418}e^5 \otimes e_7 + \frac{1}{27}\sqrt{494}e^4 \otimes e_9$	{12467, 1789, 23478, 3679}
941:15	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{1365}e^{12}, \frac{1}{67}\sqrt{3315}e^{13}, \frac{1}{67}\sqrt{3315}e^{14} + \frac{1}{67}\sqrt{1365}e^{23},$ $\frac{2}{67}\sqrt{455}e^{16}$	$(-\frac{35}{134}, \frac{30}{67}, -\frac{6}{67}, \frac{83}{134}, \frac{9}{67}, \frac{25}{134}, -\frac{47}{134}, \frac{24}{67}, -\frac{5}{67})$ $+ \frac{2}{67}\sqrt{1885}e^4 \otimes e_7$	{134, 1345, 1578, 178, 3567, 367, 4568, 468}
941:15	$0, 0, 0, 0, 0, \frac{72}{625}\sqrt{5}e^{12}, \frac{6}{625}\sqrt{2730}e^{13}, \frac{6}{625}\sqrt{1515}e^{14} + \frac{6}{625}\sqrt{1830}e^{23},$ $\frac{6}{625}\sqrt{1590}e^{16}$	$(-\frac{16}{125}, -\frac{3}{125}, \frac{19}{125}, \frac{32}{125}, \frac{57}{125}, -\frac{19}{125}, \frac{3}{125}, \frac{16}{125}, -\frac{7}{25})$ $+ \frac{12}{125}\sqrt{5}e^3 \otimes e_9 + \frac{6}{625}\sqrt{3390}e^5 \otimes e_7$	{12356, 179, 2347, 4569}
941:15	$0, 0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{1}{281}\sqrt{18239}e^{13},$ $\frac{5}{281}\sqrt{2093}e^{14} + \frac{3}{281}\sqrt{5681}e^{23}, \frac{2}{281}\sqrt{598}e^{16}$	$(\frac{49}{562}, -\frac{8}{281}, -\frac{10}{281}, -\frac{85}{562}, 1, \frac{33}{281}, \frac{29}{562}, -\frac{18}{281}, \frac{41}{281})$ $+ \frac{2}{281}\sqrt{35282}e^5 \otimes e_8$	{12345679, 12689, 1378, 145, 2359, 24789, 3468, 567}
941:15	$0, 0, 0, 0, 0, \frac{1}{608}\sqrt{58233}e^{12}, \frac{1}{304}\sqrt{15694}e^{13},$ $\frac{1}{608}\sqrt{23954}e^{14} + \frac{1}{608}\sqrt{58233}e^{23}, \frac{1}{608}\sqrt{9086}e^{16}$	$(-\frac{185}{1216}, \frac{123}{304}, -\frac{149}{1216}, \frac{33}{76}, \frac{149}{608}, \frac{307}{1216}, -\frac{167}{608}, \frac{343}{1216}, \frac{61}{608})$ $+ \frac{1}{608}\sqrt{182546}e^4 \otimes e_5 + \frac{21}{608}\sqrt{590}e^2 \otimes e_7$	{1234, 14679, 2468, 34789}
941:15	$0, 0, 0, 0, 0, \frac{3}{776}\sqrt{2530}e^{12}, \frac{1}{776}\sqrt{110055}e^{13},$ $\frac{1}{776}\sqrt{110055}e^{14} + \frac{23}{388}\sqrt{33}e^{23}, \frac{1}{776}\sqrt{506}e^{16}$	$(-\frac{47}{776}, \frac{159}{776}, -\frac{27}{1552}, \frac{385}{1552}, -\frac{75}{194}, \frac{14}{97}, -\frac{121}{1552}, \frac{3}{16}, \frac{65}{776})$ $+ \frac{1}{194}\sqrt{10879}e^4 \otimes e_7 + \frac{1}{388}\sqrt{46299}e^1 \otimes e_5$	{13469, 16789, 3579, 4589}
941:15	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78}e^{12}, \frac{9}{95}\sqrt{10}e^{13}, \frac{6}{95}\sqrt{21}e^{14} + \frac{3}{95}\sqrt{102}e^{23},$ $\frac{9}{95}\sqrt{2}e^{16}$	$(-\frac{12}{95}, \frac{3}{95}, \frac{6}{95}, \frac{21}{95}, \frac{36}{95}, -\frac{9}{95}, -\frac{6}{95}, \frac{9}{95}, -\frac{21}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{186}e^3 \otimes e_9 + \frac{6}{95}\sqrt{42}e^4 \otimes e_7$	{123456, 2357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:15	$0, 0, 0, 0, 0, \frac{54}{2753}\sqrt{177e^{12}}, \frac{216}{2753}\sqrt{11e^{13}}, \frac{162}{2753}\sqrt{13e^{14}} + \frac{54}{2753}\sqrt{761e^{23}}, \frac{54}{2753}\sqrt{2e^{16}}$	$(-\frac{173}{2753}, \frac{647}{2753}, -\frac{638}{2753}, \frac{182}{2753}, \frac{1467}{2753}, \frac{474}{2753}, -\frac{811}{2753}, \frac{9}{2753}, \frac{301}{2753})$ $+ \frac{216}{2753}\sqrt{73e^5} \otimes e_8 + \frac{54}{2753}\sqrt{1286e^2} \otimes e_7$	{123459, 14567, 24689, 3478}
941:15	$0, 0, 0, 0, 0, \frac{70}{2449}\sqrt{115e^{12}}, \frac{2}{2449}\sqrt{182735e^{13}}, \frac{2}{2449}\sqrt{162610e^{14}} + \frac{2}{2449}\sqrt{305095e^{23}}, \frac{8}{2449}\sqrt{15295e^{16}}$	$(-\frac{275}{2449}, \frac{1}{31}, \frac{785}{2449}, \frac{1139}{2449}, -\frac{825}{2449}, -\frac{196}{2449}, \frac{510}{2449}, \frac{864}{2449}, -\frac{471}{2449})$ $+ \frac{46}{2449}\sqrt{1610e^4} \otimes e_9 + \frac{4}{2449}\sqrt{222985e^3} \otimes e_5$	{12346, 1389, 2458, 569}
941:15	$0, 0, 0, 0, 0, \frac{11}{367}\sqrt{165e^{12}}, \frac{1}{367}\sqrt{44715e^{13}}, \frac{3}{367}\sqrt{2035e^{14}} + \frac{3}{367}\sqrt{715e^{23}}, \frac{18}{367}\sqrt{55e^{16}}$	$(-\frac{95}{734}, \frac{70}{367}, \frac{34}{367}, \frac{303}{734}, -\frac{131}{367}, \frac{45}{734}, -\frac{27}{734}, \frac{104}{367}, -\frac{25}{367})$ $+ \frac{2}{367}\sqrt{14685e^4} \otimes e_7 + \frac{40}{367}\sqrt{33e^3} \otimes e_5$	{123469, 1256789, 2379, 24589}
941:15	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{47897e^{12}}, \frac{1}{289}\sqrt{25197e^{13}}, \frac{1}{289}\sqrt{30191e^{14}} + \frac{1}{289}\sqrt{7491e^{23}}, \frac{10}{289}\sqrt{454e^{16}}$	$(\frac{189}{578}, -\frac{44}{289}, \frac{6}{289}, -\frac{265}{578}, \frac{45}{289}, \frac{101}{578}, \frac{201}{578}, -\frac{38}{289}, \frac{145}{289})$ $+ \frac{2}{289}\sqrt{27694e^1} \otimes e_4$	{12579, 1279, 1356, 136, 24569, 2469, 3457, 347}
941:15	$0, 0, 0, 0, 0, \frac{6}{3509}\sqrt{52170e^{12}}, \frac{12}{3509}\sqrt{8930e^{13}}, \frac{18}{3509}\sqrt{4371e^{14}} + \frac{96}{3509}\sqrt{47e^{23}}, \frac{60}{3509}\sqrt{329e^{16}}$	$(\frac{10}{121}, \frac{15}{121}, -\frac{701}{3509}, -\frac{556}{3509}, \frac{315}{3509}, \frac{25}{3509}, -\frac{411}{3509}, -\frac{266}{3509}, \frac{35}{121})$ $+ \frac{12}{3509}\sqrt{20069e^1} \otimes e_4 + \frac{6}{3509}\sqrt{69842e^2} \otimes e_7$	{12359, 1239, 1567, 167}
941:15	$0, 0, 0, 0, 0, \frac{2}{881}\sqrt{36386e^{12}}, \frac{4}{881}\sqrt{2415e^{13}}, \frac{70}{881}\sqrt{23e^{14}} + \frac{6}{881}\sqrt{161e^{23}}, \frac{1}{881}\sqrt{13363e^{16}}$	$(\frac{111}{881}, -\frac{133}{881}, \frac{33}{881}, -\frac{211}{881}, \frac{411}{881}, -\frac{22}{881}, \frac{144}{881}, -\frac{100}{881}, \frac{89}{881})$ $+ \frac{2}{881}\sqrt{52647e^5} \otimes e_9 + \frac{2}{881}\sqrt{75670e^1} \otimes e_4$	{1279, 1356, 2469, 3457}
941:15	$0, 0, 0, 0, 0, \frac{86}{5197}\sqrt{23e^{12}}, \frac{43}{5197}\sqrt{354e^{13}}, \frac{43}{5197}\sqrt{1718e^{14}} + \frac{86}{5197}\sqrt{482e^{23}}, \frac{86}{5197}\sqrt{223e^{16}}$	$(-\frac{731}{5197}, \frac{774}{5197}, -\frac{344}{5197}, \frac{1161}{5197}, \frac{2279}{5197}, \frac{43}{5197}, -\frac{1075}{5197}, \frac{430}{5197}, -\frac{688}{5197})$ $+ \frac{129}{5197}\sqrt{298e^2} \otimes e_7 + \frac{258}{5197}\sqrt{102e^5} \otimes e_8 + \frac{43}{5197}\sqrt{3154e^4} \otimes e_9$	{1289, 23569}
941:15	$0, 0, 0, 0, 0, \frac{2}{291}\sqrt{9869e^{12}}, \frac{16}{291}\sqrt{139e^{13}}, \frac{2}{291}\sqrt{7923e^{14}} + \frac{2}{291}\sqrt{9869e^{23}}, \frac{2}{291}\sqrt{1946e^{16}}$	$(-\frac{43}{291}, \frac{149}{291}, -\frac{86}{291}, \frac{106}{291}, \frac{49}{291}, \frac{106}{291}, -\frac{43}{97}, \frac{21}{97}, \frac{21}{97})$ $+ \frac{22}{291}\sqrt{278e^2} \otimes e_7$	{12359, 1239, 1567, 167, 25689, 2689, 3578, 378}
941:15	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{7491e^{12}}, \frac{1}{289}\sqrt{25197e^{13}}, \frac{1}{289}\sqrt{30191e^{14}} + \frac{1}{289}\sqrt{47897e^{23}}, \frac{10}{289}\sqrt{454e^{16}}$	$(-\frac{55}{578}, -\frac{44}{289}, \frac{128}{289}, \frac{223}{578}, \frac{45}{289}, \frac{143}{578}, \frac{201}{289}, \frac{84}{289}, -\frac{99}{289})$ $+ \frac{2}{289}\sqrt{27694e^3} \otimes e_9$	{12356, 1236, 1579, 179, 23457, 2347, 4569, 469}
941:15	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{2e^{12}}, \frac{3}{13}\sqrt{3e^{13}}, \frac{3}{13}\sqrt{3e^{14}} + \frac{3}{13}\sqrt{2e^{23}}, \frac{3}{13}e^{16}$	$(-\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, \frac{6}{13}, -\frac{4}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{11e^2} \otimes e_5 + \frac{6}{13}\sqrt{3e^4} \otimes e_7$	{1234, 1278, 2367, 2468}
941:15	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6e^{12}}, \frac{1}{3}\sqrt{3e^{13}}, \frac{1}{3}\sqrt{3e^{14}} + \frac{1}{3}\sqrt{6e^{23}}, \frac{1}{3}\sqrt{3e^{16}}$	$(0, \frac{1}{3}, 0, \frac{1}{3}, -\frac{2}{3}, \frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15e^2} \otimes e_5$	{12379, 12489, 1345678, 156, 23469, 26789, 358, 457}
941:15	$0, 0, 0, 0, 0, \frac{3}{49}\sqrt{35e^{12}}, \frac{5}{49}\sqrt{21e^{13}}, \frac{1}{49}\sqrt{399e^{14}} + \frac{3}{49}\sqrt{21e^{23}}, \frac{3}{49}\sqrt{42e^{16}}$	$(\frac{3}{14}, -\frac{1}{7}, \frac{1}{7}, -\frac{3}{14}, -\frac{2}{7}, \frac{1}{14}, \frac{5}{14}, 0, \frac{2}{7})$ $+ \frac{1}{49}\sqrt{798e^3} \otimes e_5 + \frac{5}{49}\sqrt{42e^1} \otimes e_4$	{1239, 1567, 234679, 45}
941:15	$0, 0, 0, 0, 0, \frac{4}{3725}\sqrt{32171e^{12}}, \frac{4}{3725}\sqrt{159641e^{13}}, \frac{2}{3725}\sqrt{396371e^{14}} + \frac{2}{3725}\sqrt{630066e^{23}}, \frac{4}{3725}\sqrt{4249e^{16}}$	$(-\frac{268}{3725}, \frac{823}{3725}, -\frac{123}{3725}, \frac{968}{3725}, -\frac{1337}{3725}, \frac{111}{745}, -\frac{391}{3725}, \frac{28}{149}, \frac{287}{3725})$ $+ \frac{2}{3725}\sqrt{1067106e^2} \otimes e_7 + \frac{4}{3725}\sqrt{250691e^3} \otimes e_5$	{123, 15679, 2568, 3789}
941:15	$0, 0, 0, 0, 0, \frac{310}{4069}\sqrt{23e^{12}}, \frac{31}{4069}\sqrt{1570e^{13}}, \frac{31}{4069}\sqrt{1614e^{14}} + \frac{124}{4069}\sqrt{47e^{23}}, \frac{62}{4069}\sqrt{365e^{16}}$	$(\frac{310}{4069}, \frac{465}{4069}, -\frac{62}{313}, -\frac{651}{4069}, \frac{620}{4069}, \frac{775}{4069}, -\frac{496}{4069}, -\frac{341}{4069}, \frac{1085}{4069})$ $+ \frac{217}{4069}\sqrt{74e^1} \otimes e_4 + \frac{31}{4069}\sqrt{530e^5} \otimes e_8 + \frac{62}{4069}\sqrt{818e^2} \otimes e_7$	{12359, 1567}
941:15	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{165e^{12}}, \frac{1}{57}\sqrt{627e^{13}}, \frac{1}{57}\sqrt{165e^{14}} + \frac{2}{57}\sqrt{165e^{23}}, \frac{5}{57}\sqrt{33e^{16}}$	$(-\frac{3}{19}, \frac{13}{57}, \frac{2}{19}, \frac{28}{57}, -\frac{20}{57}, \frac{4}{57}, -\frac{1}{19}, \frac{1}{3}, -\frac{5}{57})$ $+ \frac{1}{57}\sqrt{1749e^2} \otimes e_5 + \frac{4}{19}\sqrt{11e^4} \otimes e_9$	{1289, 1456, 2369, 3458}
941:15	$0, 0, 0, 0, 0, \frac{110}{3561}\sqrt{105e^{12}}, \frac{22}{3561}\sqrt{395e^{13}}, \frac{22}{3561}\sqrt{4030e^{14}} + \frac{22}{3561}\sqrt{1765e^{23}}, \frac{44}{3561}\sqrt{1115e^{16}}$	$(-\frac{65}{1187}, \frac{179}{3561}, \frac{625}{3561}, \frac{333}{1187}, -\frac{1405}{3561}, -\frac{16}{3561}, \frac{430}{3561}, \frac{268}{1187}, -\frac{211}{3561})$ $+ \frac{22}{3561}\sqrt{7270e^4} \otimes e_9 + \frac{44}{3561}\sqrt{2195e^1} \otimes e_5$	{12389, 1346, 2569, 458}
941:15	$0, 0, 0, 0, 0, \frac{6}{761}\sqrt{3255e^{12}}, \frac{4}{761}\sqrt{3255e^{13}}, \frac{2}{761}\sqrt{28427e^{14}} + \frac{6}{761}\sqrt{3255e^{23}}, \frac{10}{761}\sqrt{1302e^{16}}$	$(-\frac{127}{761}, \frac{199}{761}, -\frac{108}{761}, \frac{218}{761}, \frac{379}{761}, \frac{72}{761}, -\frac{235}{761}, \frac{91}{761}, -\frac{55}{761})$ $+ \frac{2}{761}\sqrt{82894e^2} \otimes e_7 + \frac{4}{761}\sqrt{15841e^5} \otimes e_9$	{1239, 1567, 2689, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:15	$0, 0, 0, 0, 0, \frac{7}{215}\sqrt{209}e^{12}, \frac{1}{215}\sqrt{4389}e^{13}, \frac{1}{215}\sqrt{1463}e^{14} + \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{2}{215}\sqrt{2926}e^{16}$	$(\frac{99}{430}, -\frac{28}{215}, -\frac{6}{215}, -\frac{167}{430}, \frac{99}{215}, \frac{1}{10}, \frac{87}{430}, -\frac{34}{215}, \frac{71}{215})$ $+ \frac{12}{215}\sqrt{133}e^5 \otimes e_8 + \frac{2}{215}\sqrt{7714}e^1 \otimes e_4$	{12359, 1567, 2345679, 45}
941:15	$0, 0, 0, 0, 0, \frac{96}{3509}\sqrt{47}e^{12}, \frac{12}{3509}\sqrt{8930}e^{13},$ $\frac{18}{3509}\sqrt{4371}e^{14} + \frac{6}{3509}\sqrt{52170}e^{23}, \frac{60}{3509}\sqrt{329}e^{16}$	$(-\frac{564}{3509}, \frac{15}{121}, \frac{153}{3509}, \frac{1152}{3509}, \frac{315}{3509}, -\frac{129}{3509}, -\frac{411}{3509}, \frac{588}{3509}, -\frac{63}{319})$ $+ \frac{12}{3509}\sqrt{20069}e^3 \otimes e_9 + \frac{6}{3509}\sqrt{69842}e^2 \otimes e_7$	{25689, 2689, 3578, 378}
941:15	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{290}e^{12}, \frac{2}{381}\sqrt{4611}e^{13}, \frac{4}{127}\sqrt{290}e^{14} + \frac{58}{381}\sqrt{6}e^{23},$ $\frac{2}{381}\sqrt{4002}e^{16}$	$(-\frac{16}{127}, \frac{7}{381}, \frac{10}{127}, \frac{85}{381}, \frac{211}{381}, -\frac{41}{381}, -\frac{6}{127}, \frac{37}{381}, -\frac{89}{381})$ $+ \frac{2}{381}\sqrt{14790}e^4 \otimes e_9 + \frac{8}{381}\sqrt{957}e^5 \otimes e_8$	{1234567, 13789, 2478, 5679}
941:15	$0, 0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{5}{281}\sqrt{2093}e^{13},$ $\frac{1}{281}\sqrt{18239}e^{14} + \frac{3}{281}\sqrt{5681}e^{23}, \frac{2}{281}\sqrt{598}e^{16}$	$(\frac{49}{562}, -\frac{8}{281}, \frac{108}{281}, \frac{151}{562}, -\frac{191}{281}, \frac{33}{562}, \frac{265}{562}, \frac{100}{281}, \frac{41}{281})$ $+ \frac{2}{281}\sqrt{35282}e^3 \otimes e_5$	{12369, 12456789, 1348, 157, 23479, 2589, 3678, 456}
941:15	$0, 0, 0, 0, 0, \frac{7}{587}\sqrt{1166}e^{12}, \frac{1}{587}\sqrt{24486}e^{13},$ $\frac{1}{587}\sqrt{8162}e^{14} + \frac{7}{587}\sqrt{1166}e^{23}, \frac{4}{587}\sqrt{4081}e^{16}$	$(-\frac{136}{587}, \frac{198}{587}, -\frac{37}{587}, \frac{297}{587}, \frac{73}{587}, \frac{62}{587}, -\frac{173}{587}, \frac{161}{587}, -\frac{74}{587})$ $+ \frac{1}{587}\sqrt{174370}e^4 \otimes e_9 + \frac{3}{587}\sqrt{23002}e^2 \otimes e_7$	{14567, 1467, 34578, 3478}
941:15	$0, 0, 0, 0, 0, \frac{3}{140}\sqrt{194}e^{12}, \frac{1}{140}\sqrt{4947}e^{13}, \frac{1}{140}\sqrt{4947}e^{14} + \frac{3}{140}\sqrt{194}e^{23},$ $\frac{1}{140}\sqrt{970}e^{16}$	$(-\frac{8}{35}, \frac{33}{140}, -\frac{3}{280}, \frac{127}{280}, \frac{33}{140}, \frac{1}{140}, -\frac{67}{90}, \frac{4}{140}, -\frac{31}{140})$ $+ \frac{1}{140}\sqrt{9894}e^5 \otimes e_9 + \frac{1}{70}\sqrt{3589}e^4 \otimes e_7$	{1349, 1789, 3679, 4689}
941:15	$0, 0, 0, 0, 0, \frac{11}{97}\sqrt{6}e^{12}, \frac{1}{97}\sqrt{165}e^{13}, \frac{1}{97}\sqrt{1419}e^{14} + \frac{1}{97}\sqrt{2310}e^{23},$ $\frac{3}{97}\sqrt{187}e^{16}$	$(-\frac{8}{97}, \frac{3}{97}, \frac{20}{97}, \frac{31}{97}, -\frac{30}{97}, -\frac{5}{97}, \frac{12}{97}, \frac{23}{97}, -\frac{13}{97})$ $+ \frac{12}{97}\sqrt{22}e^3 \otimes e_9 + \frac{1}{97}\sqrt{2607}e^2 \otimes e_5$	{124789, 134568, 2689, 3578}
941:15	$0, 0, 0, 0, 0, \frac{11}{367}\sqrt{165}e^{12}, \frac{3}{367}\sqrt{2035}e^{13}, \frac{1}{367}\sqrt{44715}e^{14} + \frac{3}{367}\sqrt{715}e^{23},$ $\frac{18}{367}\sqrt{55}e^{16}$	$(-\frac{95}{734}, \frac{70}{367}, -\frac{46}{367}, \frac{143}{367}, \frac{189}{367}, \frac{45}{734}, -\frac{187}{367}, \frac{24}{367}, -\frac{25}{367})$ $+ \frac{2}{367}\sqrt{14685}e^4 \otimes e_7 + \frac{40}{367}\sqrt{33}e^5 \otimes e_8$	{1234569, 126789, 23579, 2489}
941:15	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903}e^{12}, \frac{1}{89}\sqrt{2193}e^{13}, \frac{1}{89}\sqrt{301}e^{14} + \frac{1}{89}\sqrt{989}e^{23},$ $\frac{4}{89}\sqrt{43}e^{16}$	$(-\frac{35}{178}, \frac{8}{89}, \frac{16}{89}, \frac{83}{178}, \frac{9}{89}, -\frac{19}{178}, -\frac{3}{178}, \frac{24}{89}, -\frac{27}{89})$ $+ \frac{2}{89}\sqrt{946}e^3 \otimes e_9 + \frac{6}{89}\sqrt{86}e^4 \otimes e_7$	{123456, 12346, 2357, 237}
941:15	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{2310}e^{12}, \frac{1}{97}\sqrt{165}e^{13}, \frac{1}{97}\sqrt{1419}e^{14} + \frac{11}{97}\sqrt{6}e^{23},$ $\frac{3}{97}\sqrt{187}e^{16}$	$(\frac{16}{97}, \frac{3}{97}, -\frac{4}{97}, -\frac{17}{97}, -\frac{30}{97}, \frac{19}{97}, \frac{12}{97}, -\frac{1}{97}, \frac{35}{97})$ $+ \frac{12}{97}\sqrt{22}e^1 \otimes e_4 + \frac{1}{97}\sqrt{2607}e^2 \otimes e_5$	{1239, 1567, 234679, 45}
941:15	$0, 0, 0, 0, 0, \frac{14}{2137}\sqrt{1983}e^{12}, \frac{6}{2137}\sqrt{19169}e^{13},$ $\frac{2}{2137}\sqrt{25118}e^{14} + \frac{2}{2137}\sqrt{312653}e^{23}, \frac{4}{2137}\sqrt{70066}e^{16}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{387}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{561}{2137})$ $+ \frac{2}{2137}\sqrt{424362}e^4 \otimes e_5 + \frac{4}{2137}\sqrt{204910}e^3 \otimes e_9$	{12356, 1579, 2347, 469}
941:16	$0, 0, 0, 0, 0, \frac{4}{4085}\sqrt{148918}e^{12}, \frac{2}{4085}\sqrt{1417622}e^{13},$ $\frac{4}{4085}\sqrt{93799}e^{14} + \frac{2}{4085}\sqrt{523147}e^{23}, \frac{6}{4085}\sqrt{32878}e^{26}$	$(\frac{691}{4085}, -\frac{4}{4085}, -\frac{548}{4085}, -\frac{1243}{4085}, \frac{2077}{4085}, \frac{687}{4085}, \frac{143}{4085}, -\frac{552}{4085}, \frac{683}{4085})$ $+ \frac{4}{4085}\sqrt{485434}e^1 \otimes e_4 + \frac{4}{817}\sqrt{16439}e^5 \otimes e_7$	{1279, 13569, 2456, 347}
941:16	$0, 0, 0, 0, 0, \frac{14}{2137}\sqrt{1983}e^{12}, \frac{6}{2137}\sqrt{19169}e^{13},$ $\frac{2}{2137}\sqrt{255146}e^{14} + \frac{14}{2137}\sqrt{661}e^{23}, \frac{4}{2137}\sqrt{70066}e^{26}$	$(-\frac{245}{2137}, -\frac{71}{2137}, \frac{761}{2137}, \frac{935}{2137}, -\frac{561}{2137}, -\frac{316}{2137}, \frac{516}{2137}, \frac{690}{2137}, -\frac{387}{2137})$ $+ \frac{2}{2137}\sqrt{704626}e^4 \otimes e_9 + \frac{8}{2137}\sqrt{33711}e^3 \otimes e_5$	{12346, 1457, 2379, 569}
941:16	$0, 0, 0, 0, 0, \frac{8}{315}\sqrt{326}e^{12}, \frac{2}{105}\sqrt{1793}e^{13}, \frac{2}{105}\sqrt{1793}e^{14} + \frac{2}{45}\sqrt{163}e^{23},$ $\frac{2}{315}\sqrt{5542}e^{26}$	$(-\frac{113}{315}, \frac{20}{63}, \frac{1}{105}, \frac{24}{35}, \frac{53}{315}, -\frac{13}{315}, -\frac{22}{63}, \frac{103}{315}, \frac{29}{105})$ $+ \frac{2}{315}\sqrt{42706}e^4 \otimes e_7$	{134, 1345, 1578, 178, 35679, 3679, 45689, 4689}
941:16	$0, 0, 0, 0, 0, \frac{2}{685}\sqrt{32007}e^{12}, \frac{6}{685}\sqrt{987}e^{13}, \frac{8}{685}\sqrt{705}e^{14} + \frac{6}{685}\sqrt{329}e^{23},$ $\frac{6}{685}\sqrt{1974}e^{26}$	$(\frac{147}{685}, \frac{5}{137}, -\frac{13}{685}, -\frac{27}{137}, -\frac{257}{685}, \frac{172}{685}, \frac{134}{685}, \frac{12}{685}, \frac{197}{685})$ $+ \frac{2}{685}\sqrt{40326}e^1 \otimes e_4 + \frac{4}{685}\sqrt{11562}e^2 \otimes e_5$	{1239, 15679, 23467, 45}
941:16	$0, 0, 0, 0, 0, \frac{18}{1217}\sqrt{110}e^{12}, \frac{18}{1217}\sqrt{110}e^{13},$ $\frac{18}{1217}\sqrt{434}e^{14} + \frac{18}{1217}\sqrt{130}e^{23}, \frac{18}{1217}\sqrt{566}e^{26}$	$(-\frac{216}{1217}, \frac{99}{1217}, -\frac{9}{1217}, \frac{306}{1217}, \frac{414}{1217}, -\frac{117}{1217}, -\frac{225}{1217}, \frac{90}{1217}, -\frac{18}{1217})$ $+ \frac{18}{1217}\sqrt{606}e^5 \otimes e_8 + \frac{18}{1217}\sqrt{782}e^2 \otimes e_7 + \frac{36}{1217}\sqrt{206}e^4 \otimes e_9$	{2468, 3478}
941:16	$0, 0, 0, 0, 0, \frac{3}{241}\sqrt{870}e^{12}, \frac{3}{241}\sqrt{870}e^{13}, \frac{3}{241}\sqrt{430}e^{14} + \frac{12}{241}\sqrt{5}e^{23},$ $\frac{6}{241}\sqrt{395}e^{26}$	$(-\frac{39}{241}, \frac{30}{241}, -\frac{21}{241}, \frac{48}{241}, \frac{111}{241}, -\frac{9}{241}, -\frac{60}{241}, \frac{9}{241}, \frac{21}{241})$ $+ \frac{30}{241}\sqrt{26}e^2 \otimes e_7 + \frac{39}{241}\sqrt{10}e^5 \otimes e_9$	{1239, 1679, 2568, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:16	$0, 0, 0, 0, 0, \frac{4}{81}\sqrt{185}e^{12}, \frac{4}{81}\sqrt{185}e^{13}, \frac{4}{81}\sqrt{185}e^{14} + \frac{2}{81}\sqrt{703}e^{23},$ $\frac{2}{81}\sqrt{407}e^{26}$	$(\frac{7}{27}, \frac{2}{81}, \frac{13}{81}, -\frac{2}{27}, -\frac{53}{81}, \frac{23}{81}, \frac{34}{81}, \frac{5}{27}, \frac{25}{81})$ $+ \frac{2}{81}\sqrt{2479}e^1 \otimes e_5$	{12389, 12479, 13469, 16789, 2345678, 256, 357, 458}
941:16	$0, 0, 0, 0, 0, \frac{1}{320}\sqrt{59010}e^{12}, \frac{1}{320}\sqrt{16017}e^{13},$ $\frac{1}{320}\sqrt{16017}e^{14} + \frac{1}{160}\sqrt{8711}e^{23}, \frac{1}{160}\sqrt{12083}e^{26}$	$(\frac{1}{64}, \frac{67}{320}, \frac{39}{640}, \frac{163}{640}, -\frac{107}{160}, \frac{9}{40}, \frac{49}{160}, \frac{173}{640}, \frac{139}{320})$ $+ \frac{1}{320}\sqrt{150054}e^2 \otimes e_5$	{12379, 12489, 13456789, 1569, 2346, 2678, 358, 457}
941:16	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{1970}e^{12}, \frac{2}{311}\sqrt{23246}e^{13},$ $\frac{2}{311}\sqrt{1970}e^{14} + \frac{2}{311}\sqrt{4531}e^{23}, \frac{2}{311}\sqrt{5122}e^{26}$	$(-\frac{43}{311}, \frac{62}{311}, -\frac{40}{311}, \frac{65}{311}, \frac{1}{311}, \frac{19}{311}, -\frac{83}{311}, \frac{22}{311}, \frac{81}{311})$ $+ \frac{32}{311}\sqrt{197}e^5 \otimes e_7$	{1234568, 1267, 135, 1478, 23789, 2459, 34679, 5689}
941:16	$0, 0, 0, 0, 0, \frac{2}{87}\sqrt{78}e^{12}, \frac{10}{87}\sqrt{13}e^{13}, \frac{10}{87}\sqrt{13}e^{14} + \frac{2}{87}\sqrt{247}e^{23},$ $\frac{2}{29}\sqrt{13}e^{26}$	$(-\frac{7}{87}, \frac{4}{29}, \frac{2}{87}, \frac{7}{29}, -\frac{11}{29}, \frac{5}{87}, -\frac{5}{87}, \frac{14}{87}, \frac{17}{87})$ $+ \frac{2}{87}\sqrt{494}e^4 \otimes e_7 + \frac{2}{87}\sqrt{533}e^1 \otimes e_5$	{13469, 16789, 357, 458}
941:16	$0, 0, 0, 0, 0, \frac{80}{3329}\sqrt{231}e^{12}, \frac{10}{3329}\sqrt{10065}e^{13},$ $\frac{10}{3329}\sqrt{34881}e^{14} + \frac{10}{3329}\sqrt{9933}e^{23}, \frac{30}{3329}\sqrt{22}e^{26}$	$(-\frac{595}{3329}, \frac{460}{3329}, -\frac{287}{3329}, \frac{768}{3329}, \frac{1823}{3329}, -\frac{135}{3329}, -\frac{882}{3329}, \frac{173}{3329}, \frac{325}{3329})$ $+ \frac{30}{3329}\sqrt{5522}e^4 \otimes e_7 + \frac{40}{3329}\sqrt{3102}e^5 \otimes e_8$	{123456, 12678, 23579, 2489}
941:16	$0, 0, 0, 0, 0, \frac{3}{328}\sqrt{4579}e^{12}, \frac{3}{328}\sqrt{4579}e^{13},$ $\frac{1}{328}\sqrt{24582}e^{14} + \frac{1}{328}\sqrt{17834}e^{23}, \frac{1}{328}\sqrt{46754}e^{26}$	$(-\frac{65}{328}, \frac{217}{656}, -\frac{135}{656}, \frac{53}{164}, \frac{55}{328}, \frac{87}{656}, -\frac{265}{656}, \frac{1}{8}, \frac{19}{41})$ $+ \frac{1}{328}\sqrt{131586}e^2 \otimes e_7$	{12359, 1239, 15679, 1679, 2568, 268, 3578, 378}
941:16	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{13}e^{12}, \frac{2}{15}\sqrt{13}e^{13}, \frac{2}{45}\sqrt{26}e^{14} + \frac{2}{45}\sqrt{91}e^{23},$ $\frac{2}{45}\sqrt{130}e^{26}$	$(\frac{11}{45}, -\frac{7}{45}, \frac{1}{15}, -\frac{1}{3}, \frac{23}{45}, \frac{4}{45}, \frac{14}{45}, -\frac{4}{45}, -\frac{1}{15})$ $+ \frac{2}{15}\sqrt{26}e^5 \otimes e_9 + \frac{2}{45}\sqrt{286}e^1 \otimes e_4$	{1279, 1369, 2456, 3457}
941:16	$0, 0, 0, 0, 0, \frac{6}{1187}\sqrt{2805}e^{12}, \frac{6}{1187}\sqrt{2805}e^{13},$ $\frac{44}{1187}\sqrt{51}e^{14} + \frac{14}{1187}\sqrt{935}e^{23}, \frac{1187}{1187}\sqrt{58718}e^{26}$	$(-\frac{19}{1187}, -\frac{41}{1187}, \frac{273}{1187}, \frac{251}{1187}, -\frac{415}{1187}, -\frac{60}{1187}, \frac{254}{1187}, \frac{232}{1187}, -\frac{101}{1187})$ $+ \frac{2}{1187}\sqrt{99858}e^2 \otimes e_5 + \frac{2}{1187}\sqrt{99858}e^3 \otimes e_9$	{124789, 15679, 23467, 3578}
941:16	$0, 0, 0, 0, 0, \frac{2}{317}\sqrt{411}e^{12}, \frac{2}{317}\sqrt{411}e^{13}, \frac{2}{317}\sqrt{17810}e^{14} + \frac{2}{317}\sqrt{9179}e^{23},$ $\frac{16}{317}\sqrt{274}e^{26}$	$(-\frac{73}{317}, -\frac{7}{317}, \frac{121}{317}, \frac{187}{317}, \frac{51}{317}, \frac{80}{317}, \frac{48}{317}, \frac{114}{317}, -\frac{87}{317})$ $+ \frac{2}{317}\sqrt{36442}e^4 \otimes e_9$	{12456, 1246, 13457, 1347, 2579, 279, 3569, 369}
941:16	$0, 0, 0, 0, 0, \frac{8}{809}\sqrt{682}e^{12}, \frac{8}{809}\sqrt{682}e^{13}, \frac{2}{809}\sqrt{51491}e^{14} + \frac{31}{809}\sqrt{22}e^{23},$ $\frac{7}{809}\sqrt{2046}e^{26}$	$(-\frac{97}{809}, -\frac{37}{809}, \frac{110}{809}, \frac{170}{809}, \frac{414}{809}, -\frac{134}{809}, \frac{13}{809}, \frac{73}{809}, -\frac{171}{809})$ $+ \frac{1}{809}\sqrt{229834}e^5 \otimes e_8 + \frac{1}{809}\sqrt{269390}e^4 \otimes e_9$	{1234567, 145, 2359, 5679}
941:16	$0, 0, 0, 0, 0, \frac{22}{3009}\sqrt{2345}e^{12}, \frac{110}{3009}\sqrt{39}e^{13},$ $\frac{22}{3009}\sqrt{2410}e^{14} + \frac{22}{3009}\sqrt{195}e^{23}, \frac{44}{3009}\sqrt{1270}e^{26}$	$(-\frac{143}{1003}, \frac{209}{3009}, \frac{11}{59}, \frac{1199}{3009}, -\frac{1001}{3009}, -\frac{220}{3009}, \frac{44}{1003}, \frac{770}{3009}, -\frac{11}{3009})$ $+ \frac{22}{3009}\sqrt{6770}e^4 \otimes e_9 + \frac{88}{3009}\sqrt{415}e^2 \otimes e_5$	{123789, 15689, 23468, 4578}
941:16	$0, 0, 0, 0, 0, \frac{41}{4965}\sqrt{158}e^{12}, \frac{82}{4965}\sqrt{537}e^{13}, \frac{164}{1655}e^{14} + \frac{41}{1655}\sqrt{138}e^{23},$ $\frac{82}{4965}\sqrt{302}e^{26}$	$(\frac{779}{4965}, -\frac{287}{1655}, \frac{246}{1655}, -\frac{902}{4965}, \frac{1558}{4965}, -\frac{82}{4965}, \frac{1517}{4965}, -\frac{41}{1655}, -\frac{943}{4965})$ $+ \frac{41}{4965}\sqrt{2230}e^5 \otimes e_8 + \frac{41}{4965}\sqrt{2834}e^1 \otimes e_4 + \frac{82}{4965}\sqrt{995}e^3 \otimes e_9$	{15679, 234567}
941:16	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{23433}e^{12}, \frac{1}{152}\sqrt{14766}e^{13},$ $\frac{1}{304}\sqrt{23433}e^{14} + \frac{1}{304}\sqrt{64842}e^{23}, \frac{3}{152}\sqrt{321}e^{26}$	$(\frac{7}{76}, \frac{1}{608}, \frac{111}{304}, \frac{167}{608}, -\frac{105}{152}, \frac{3}{32}, \frac{139}{304}, \frac{223}{608}, \frac{29}{304})$ $+ \frac{1}{304}\sqrt{164994}e^3 \otimes e_5$	{12369, 12456789, 13489, 1579, 2347, 258, 3678, 456}
941:16	$0, 0, 0, 0, 0, \frac{60}{4241}\sqrt{106}e^{12}, \frac{2}{4241}\sqrt{339465}e^{13},$ $\frac{2}{4241}\sqrt{172515}e^{14} + \frac{106}{4241}\sqrt{65}e^{23}, \frac{8}{4241}\sqrt{19610}e^{26}$	$(-\frac{613}{4241}, \frac{166}{4241}, \frac{249}{4241}, \frac{1028}{4241}, \frac{377}{4241}, -\frac{447}{4241}, -\frac{364}{4241}, \frac{415}{4241}, -\frac{281}{4241})$ $+ \frac{2}{4241}\sqrt{488130}e^3 \otimes e_9 + \frac{2}{4241}\sqrt{535830}e^2 \otimes e_7$	{15679, 1679, 3578, 378}
941:16	$0, 0, 0, 0, 0, \frac{6}{697}\sqrt{1334}e^{12}, \frac{6}{697}\sqrt{1334}e^{13}, \frac{3}{697}\sqrt{4118}e^{14} + \frac{87}{697}\sqrt{2}e^{23},$ $\frac{66}{697}\sqrt{29}e^{26}$	$(-\frac{174}{697}, \frac{105}{697}, \frac{18}{697}, \frac{297}{697}, \frac{81}{697}, -\frac{69}{697}, -\frac{156}{697}, \frac{3}{17}, \frac{36}{697})$ $+ \frac{3}{697}\sqrt{16646}e^4 \otimes e_9 + \frac{3}{697}\sqrt{19082}e^2 \otimes e_7$	{123589, 12389, 156789, 16789}
941:16	$0, 0, 0, 0, 0, \frac{4}{761}\sqrt{2145}e^{12}, \frac{8}{761}\sqrt{2310}e^{13}, \frac{4}{761}\sqrt{2145}e^{14} + \frac{30}{761}\sqrt{11}e^{23},$ $\frac{2}{761}\sqrt{24585}e^{26}$	$(\frac{89}{761}, -\frac{98}{761}, \frac{223}{761}, \frac{36}{761}, -\frac{241}{761}, -\frac{9}{761}, \frac{312}{761}, \frac{125}{761}, -\frac{107}{761})$ $+ \frac{2}{761}\sqrt{54285}e^1 \otimes e_5 + \frac{4}{761}\sqrt{14190}e^3 \otimes e_9$	{12479, 16789, 2345678, 357}
941:16	$0, 0, 0, 0, 0, \frac{5}{996}\sqrt{2863}e^{12}, \frac{11}{996}\sqrt{2454}e^{13},$ $\frac{5}{996}\sqrt{2863}e^{14} + \frac{1}{498}\sqrt{16769}e^{23}, \frac{1}{249}\sqrt{8998}e^{26}$	$(-\frac{31}{332}, -\frac{151}{1992}, \frac{55}{332}, \frac{365}{1992}, \frac{481}{996}, -\frac{337}{1992}, \frac{6}{83}, \frac{179}{1992}, -\frac{61}{249})$ $+ \frac{1}{498}\sqrt{78937}e^5 \otimes e_7 + \frac{1}{996}\sqrt{421270}e^3 \otimes e_9$	{12356, 13458, 2589, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:16	$0, 0, 0, 0, 0, \frac{2}{105}\sqrt{1793}e^{12}, \frac{2}{105}\sqrt{1793}e^{13}, \frac{8}{315}\sqrt{326}e^{14} + \frac{2}{45}\sqrt{163}e^{23},$ $\frac{2}{315}\sqrt{5542}e^{26}$	$(\frac{149}{315}, -\frac{31}{315}, \frac{1}{105}, -\frac{59}{105}, \frac{53}{315}, \frac{118}{315}, \frac{152}{315}, -\frac{4}{45}, \frac{29}{105})$ $+ \frac{2}{315}\sqrt{42706}e^1 \otimes e_4$	{12579, 1279, 13569, 1369, 2456, 246, 3457, 347}
941:16	$0, 0, 0, 0, 0, \frac{1}{320}\sqrt{16017}e^{12}, \frac{1}{320}\sqrt{59010}e^{13},$ $\frac{1}{320}\sqrt{16017}e^{14} + \frac{1}{160}\sqrt{8711}e^{23}, \frac{1}{160}\sqrt{12083}e^{26}$	$(\frac{1}{64}, -\frac{133}{640}, \frac{153}{320}, \frac{163}{640}, \frac{53}{320}, -\frac{123}{640}, \frac{79}{160}, \frac{173}{640}, -\frac{2}{5})$ $+ \frac{1}{320}\sqrt{150054}e^3 \otimes e_9$	{12356, 1236, 13458, 1348, 2589, 289, 4569, 469}
941:16	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{23433}e^{12}, \frac{1}{152}\sqrt{23433}e^{13},$ $\frac{1}{152}\sqrt{14766}e^{14} + \frac{1}{304}\sqrt{64842}e^{23}, \frac{3}{152}\sqrt{321}e^{26}$	$(\frac{7}{76}, \frac{1}{608}, -\frac{35}{608}, -\frac{45}{304}, \frac{1}{32}, \frac{21}{608}, -\frac{17}{304}, \frac{29}{304})$ $+ \frac{1}{304}\sqrt{164994}e^5 \otimes e_8$	{12345679, 12689, 13789, 1459, 235, 2478, 3468, 567}
941:16	$0, 0, 0, 0, 0, \frac{20}{909}\sqrt{143}e^{12}, \frac{20}{909}\sqrt{143}e^{13},$ $\frac{2}{909}\sqrt{44330}e^{14} + \frac{26}{909}\sqrt{187}e^{23}, \frac{4}{909}\sqrt{8723}e^{26}$	$(-\frac{7}{303}, -\frac{32}{909}, \frac{212}{909}, \frac{67}{303}, -\frac{307}{909}, -\frac{53}{909}, \frac{191}{909}, \frac{20}{101}, -\frac{85}{909})$ $+ \frac{2}{909}\sqrt{56914}e^1 \otimes e_5 + \frac{4}{909}\sqrt{15015}e^4 \otimes e_9$	{12389, 16789, 2345678, 458}
941:16	$0, 0, 0, 0, 0, \frac{49}{185}e^{12}, \frac{14}{555}\sqrt{159}e^{13}, \frac{28}{555}\sqrt{33}e^{14} + \frac{14}{555}\sqrt{105}e^{23},$ $\frac{42}{185}e^{26}$	$(-\frac{77}{555}, -\frac{7}{555}, \frac{56}{555}, \frac{42}{185}, \frac{196}{555}, -\frac{28}{185}, -\frac{7}{185}, \frac{49}{555}, -\frac{91}{555})$ $+ \frac{7}{555}\sqrt{1023}e^4 \otimes e_7 + \frac{7}{555}\sqrt{1131}e^3 \otimes e_9 + \frac{7}{555}\sqrt{915}e^5 \otimes e_8$	{123456, 2489}
941:16	$0, 0, 0, 0, 0, \frac{1}{192}\sqrt{53746}e^{12}, \frac{1}{192}\sqrt{3839}e^{13},$ $\frac{1}{192}\sqrt{3839}e^{14} + \frac{1}{288}\sqrt{3839}e^{23}, \frac{1}{288}\sqrt{19195}e^{26}$	$(-\frac{103}{576}, \frac{143}{576}, \frac{1}{384}, \frac{55}{128}, -\frac{103}{288}, \frac{5}{72}, -\frac{203}{1152}, \frac{289}{1152}, \frac{61}{192})$ $+ \frac{1}{192}\sqrt{21638}e^2 \otimes e_5 + \frac{1}{72}\sqrt{2443}e^4 \otimes e_7$	{12349, 12789, 2367, 2468}
941:16	$0, 0, 0, 0, 0, \frac{80}{3329}\sqrt{231}e^{12}, \frac{10}{3329}\sqrt{34881}e^{13},$ $\frac{10}{3329}\sqrt{10065}e^{14} + \frac{10}{3329}\sqrt{9933}e^{23}, \frac{30}{3329}\sqrt{22}e^{26}$	$(-\frac{595}{3329}, \frac{460}{3329}, \frac{465}{3329}, \frac{1520}{3329}, -\frac{1185}{3329}, -\frac{135}{3329}, -\frac{130}{3329}, \frac{925}{3329}, \frac{325}{3329})$ $+ \frac{30}{3329}\sqrt{5522}e^4 \otimes e_7 + \frac{40}{3329}\sqrt{3102}e^3 \otimes e_5$	{12346, 125678, 2379, 24589}
941:16	$0, 0, 0, 0, 0, \frac{1}{1016}\sqrt{136255}e^{12}, \frac{1}{1016}\sqrt{136255}e^{13},$ $\frac{1}{1016}\sqrt{74654}e^{14} + \frac{1}{1016}\sqrt{5038}e^{23}, \frac{1}{1016}\sqrt{93890}e^{26}$	$(\frac{75}{1016}, \frac{225}{2032}, -\frac{383}{2032}, -\frac{77}{508}, \frac{95}{1016}, \frac{375}{2032}, -\frac{233}{2032}, -\frac{79}{1016}, \frac{75}{254})$ $+ \frac{1}{1016}\sqrt{233122}e^2 \otimes e_7 + \frac{1}{508}\sqrt{47174}e^1 \otimes e_4$	{2456, 246, 3457, 347}
941:16	$0, 0, 0, 0, 0, \frac{104}{3009}\sqrt{11}e^{12}, \frac{26}{3009}\sqrt{773}e^{13},$ $\frac{26}{3009}\sqrt{323}e^{14} + \frac{26}{3009}\sqrt{553}e^{23}, \frac{52}{3009}\sqrt{181}e^{26}$	$(-\frac{377}{3009}, \frac{26}{1003}, \frac{39}{1003}, \frac{572}{3009}, \frac{533}{3009}, -\frac{299}{3009}, -\frac{260}{3009}, \frac{65}{1003}, -\frac{13}{177})$ $+ \frac{26}{3009}\sqrt{1194}e^3 \otimes e_9 + \frac{26}{3009}\sqrt{1282}e^2 \otimes e_7 + \frac{52}{3009}\sqrt{71}e^5 \otimes e_8$	{15679, 378}
941:16	$0, 0, 0, 0, 0, \frac{20}{881}\sqrt{285}e^{12}, \frac{20}{881}\sqrt{285}e^{13}, \frac{40}{881}\sqrt{5}e^{14} + \frac{10}{881}\sqrt{235}e^{23},$ $\frac{30}{881}\sqrt{105}e^{26}$	$(-\frac{15}{881}, \frac{150}{881}, -\frac{85}{881}, \frac{80}{881}, -\frac{265}{881}, \frac{135}{881}, -\frac{100}{881}, \frac{65}{881}, \frac{285}{881})$ $+ \frac{190}{881}\sqrt{5}e^1 \otimes e_5 + \frac{20}{881}\sqrt{530}e^2 \otimes e_7$	{12389, 16789, 256, 357}
941:16	$0, 0, 0, 0, 0, \frac{9}{565}\sqrt{273}e^{12}, \frac{9}{565}\sqrt{273}e^{13}, \frac{9}{565}\sqrt{139}e^{14} + \frac{18}{565}\sqrt{10}e^{23},$ $\frac{36}{565}\sqrt{17}e^{26}$	$(\frac{18}{565}, \frac{27}{565}, -\frac{72}{565}, -\frac{63}{565}, \frac{153}{565}, \frac{9}{113}, -\frac{54}{565}, -\frac{9}{113}, \frac{72}{565})$ $+ \frac{9}{565}\sqrt{217}e^5 \otimes e_9 + \frac{9}{565}\sqrt{354}e^1 \otimes e_4 + \frac{9}{565}\sqrt{470}e^2 \otimes e_7$	{2456, 3457}
941:16	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{8}\sqrt{10}e^{13}, \frac{1}{8}\sqrt{10}e^{14} + \frac{1}{4}\sqrt{5}e^{23},$ $\frac{1}{4}\sqrt{15}e^{26}$	$(0, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, 1, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4})$ $+ \frac{1}{8}\sqrt{130}e^5 \otimes e_9$	{12389, 12479, 13469, 16789, 2345678, 256, 357, 458}
941:16	$0, 0, 0, 0, 0, \frac{4}{3041}\sqrt{67398}e^{12}, \frac{2}{3041}\sqrt{257403}e^{13},$ $\frac{2}{3041}\sqrt{181401}e^{14} + \frac{2}{3041}\sqrt{594393}e^{23}, \frac{6}{3041}\sqrt{25334}e^{26}$	$(\frac{77}{3041}, -\frac{458}{3041}, \frac{595}{3041}, \frac{60}{3041}, \frac{1571}{3041}, -\frac{381}{3041}, \frac{672}{3041}, \frac{137}{3041}, -\frac{839}{3041})$ $+ \frac{2}{3041}\sqrt{901986}e^5 \otimes e_8 + \frac{42}{3041}\sqrt{2390}e^3 \otimes e_9$	{123456, 138, 2489, 569}
941:16	$0, 0, 0, 0, 0, \frac{2}{311}\sqrt{1970}e^{12}, \frac{2}{311}\sqrt{1970}e^{13},$ $\frac{2}{311}\sqrt{23246}e^{14} + \frac{2}{311}\sqrt{4531}e^{23}, \frac{2}{311}\sqrt{5122}e^{26}$	$(-\frac{43}{311}, \frac{62}{311}, \frac{88}{311}, \frac{193}{311}, -\frac{201}{311}, \frac{19}{311}, \frac{45}{311}, \frac{150}{311}, \frac{81}{311})$ $+ \frac{32}{311}\sqrt{197}e^4 \otimes e_5$	{1235678, 1246, 1347, 158, 23489, 2579, 3569, 46789}
941:16	$0, 0, 0, 0, 0, \frac{8}{685}\sqrt{705}e^{12}, \frac{2}{685}\sqrt{32007}e^{13}, \frac{6}{685}\sqrt{987}e^{14} + \frac{6}{685}\sqrt{329}e^{23},$ $\frac{6}{685}\sqrt{1974}e^{26}$	$(-\frac{139}{685}, \frac{4}{685}, \frac{151}{685}, \frac{294}{685}, \frac{71}{685}, -\frac{27}{137}, \frac{12}{685}, \frac{31}{685}, -\frac{131}{685})$ $+ \frac{2}{685}\sqrt{40326}e^4 \otimes e_7 + \frac{4}{685}\sqrt{11562}e^3 \otimes e_9$	{123456, 12346, 24589, 2489}
941:16	$0, 0, 0, 0, 0, \frac{2}{2905}\sqrt{209603}e^{12}, \frac{2}{2905}\sqrt{469195}e^{13},$ $\frac{2}{2905}\sqrt{233282}e^{14} + \frac{2}{2905}\sqrt{230651}e^{23}, \frac{8}{2905}\sqrt{29818}e^{26}$	$(-\frac{43}{581}, -\frac{221}{2905}, \frac{1097}{2905}, \frac{1091}{2905}, -\frac{663}{2905}, -\frac{436}{2905}, \frac{126}{415}, \frac{876}{2905}, -\frac{657}{2905})$ $+ \frac{12}{2905}\sqrt{37711}e^3 \otimes e_9 + \frac{2}{2905}\sqrt{885770}e^4 \otimes e_5$	{12346, 1358, 2489, 569}
941:16	$0, 0, 0, 0, 0, \frac{6}{685}\sqrt{987}e^{12}, \frac{2}{685}\sqrt{32007}e^{13}, \frac{8}{685}\sqrt{705}e^{14} + \frac{6}{685}\sqrt{329}e^{23},$ $\frac{6}{685}\sqrt{1974}e^{26}$	$(\frac{147}{685}, -\frac{139}{685}, \frac{151}{685}, -\frac{27}{137}, \frac{71}{685}, \frac{8}{685}, \frac{298}{685}, \frac{12}{685}, -\frac{131}{685})$ $+ \frac{2}{685}\sqrt{40326}e^1 \otimes e_4 + \frac{4}{685}\sqrt{11562}e^3 \otimes e_9$	{15679, 1679, 234567, 23467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:16	$0, 0, 0, 0, 0, \frac{10}{3329} \sqrt{10065}e^{12}, \frac{10}{3329} \sqrt{34881}e^{13},$ $\frac{80}{3329} \sqrt{231}e^{14} + \frac{10}{3329} \sqrt{9933}e^{23}, \frac{30}{3329} \sqrt{22}e^{26}$	$(\frac{911}{3329}, -\frac{293}{3329}, \frac{465}{3329}, -\frac{739}{3329}, -\frac{1185}{3329}, \frac{618}{3329}, \frac{1376}{3329}, \frac{172}{3329}, \frac{325}{3329})$ $+ \frac{30}{3329} \sqrt{5522}e^1 \otimes e_4 + \frac{40}{3329} \sqrt{3102}e^3 \otimes e_5$	{1239, 15679, 23467, 45}
941:16	$0, 0, 0, 0, 0, \frac{86}{9085} \sqrt{193}e^{12}, \frac{43}{9085} \sqrt{6482}e^{13},$ $\frac{43}{9085} \sqrt{1966}e^{14} + \frac{43}{9085} \sqrt{82}e^{23}, \frac{43}{9085} \sqrt{2562}e^{26}$	$(\frac{731}{9085}, -\frac{43}{395}, \frac{602}{9085}, -\frac{1118}{9085}, \frac{3182}{9085}, -\frac{258}{9085}, \frac{1333}{9085}, -\frac{387}{9085}, -\frac{1247}{9085})$ $+ \frac{3182}{9085} e^1 \otimes e_4 + \frac{43}{9085} \sqrt{5090}e^5 \otimes e_7 + \frac{43}{9085} \sqrt{6330}e^3 \otimes e_9$	{1279, 347}
941:16	$0, 0, 0, 0, 0, \frac{1}{560} \sqrt{41623}e^{12}, \frac{1}{560} \sqrt{41623}e^{13},$ $\frac{1}{280} \sqrt{10114}e^{14} + \frac{1}{80} \sqrt{778}e^{23}, \frac{1}{280} \sqrt{1167}e^{26}$	$(\frac{39}{140}, -\frac{83}{1120}, -\frac{71}{1120}, -\frac{233}{560}, \frac{39}{70}, \frac{229}{1120}, \frac{241}{1120}, -\frac{11}{80}, \frac{73}{560})$ $+ \frac{1}{140} \sqrt{12059}e^1 \otimes e_4 + \frac{1}{80} \sqrt{3890}e^5 \otimes e_8$	{12789, 13689, 2468, 3478}
941:16	$0, 0, 0, 0, 0, \frac{32}{1149} \sqrt{155}e^{12}, \frac{32}{1149} \sqrt{155}e^{13},$ $\frac{16}{1149} \sqrt{314}e^{14} + \frac{16}{1149} \sqrt{22}e^{23}, \frac{16}{1149} \sqrt{430}e^{26}$	$(\frac{80}{1149}, \frac{40}{383}, -\frac{72}{383}, -\frac{176}{1149}, \frac{160}{1149}, \frac{200}{1149}, -\frac{136}{1149}, -\frac{32}{383}, \frac{320}{1149})$ $+ \frac{16}{1149} \sqrt{1102}e^2 \otimes e_7 + \frac{16}{1149} \sqrt{110}e^5 \otimes e_8 + \frac{32}{1149} \sqrt{219}e^1 \otimes e_4$	{12359, 15679}
941:16	$0, 0, 0, 0, 0, \frac{92}{3633} \sqrt{78}e^{12}, \frac{46}{3633} \sqrt{1039}e^{13},$ $\frac{46}{3633} \sqrt{607}e^{14} + \frac{46}{3633} \sqrt{811}e^{23}, \frac{92}{3633} \sqrt{114}e^{26}$	$(-\frac{403}{3633}, \frac{200}{1211}, -\frac{55}{3633}, \frac{316}{1211}, -\frac{53}{173}, \frac{197}{3633}, -\frac{458}{3633}, \frac{545}{3633}, \frac{797}{3633})$ $+ \frac{46}{3633} \sqrt{1454}e^3 \otimes e_5 + \frac{46}{3633} \sqrt{1838}e^2 \otimes e_7$	{1239, 15679, 2568, 378}
941:16	$0, 0, 0, 0, 0, \frac{2}{633} \sqrt{10010}e^{12}, \frac{2}{633} \sqrt{10010}e^{13},$ $\frac{2}{633} \sqrt{2002}e^{14} + \frac{14}{633} \sqrt{418}e^{23}, \frac{14}{633} \sqrt{286}e^{26}$	$(-\frac{68}{633}, \frac{39}{211}, -\frac{41}{211}, \frac{62}{633}, \frac{302}{633}, \frac{49}{633}, \frac{191}{633}, -\frac{2}{211}, \frac{166}{633})$ $+ \frac{2}{633} \sqrt{34958}e^5 \otimes e_8 + \frac{2}{633} \sqrt{50974}e^2 \otimes e_7$	{123459, 145679, 2468, 3478}
941:16	$0, 0, 0, 0, 0, \frac{3}{652} \sqrt{8569}e^{12}, \frac{3}{652} \sqrt{8569}e^{13}, \frac{3}{652} \sqrt{902}e^{14} + \frac{3}{652} \sqrt{2706}e^{23},$ $\frac{3}{652} \sqrt{11726}e^{26}$	$(-\frac{135}{652}, \frac{363}{1304}, -\frac{105}{1304}, \frac{66}{163}, -\frac{105}{652}, \frac{93}{1304}, -\frac{375}{1304}, \frac{129}{652}, \frac{57}{163})$ $+ \frac{3}{326} \sqrt{3895}e^4 \otimes e_5 + \frac{3}{652} \sqrt{30914}e^2 \otimes e_7$	{12349, 14679, 2468, 3478}
941:16	$0, 0, 0, 0, 0, \frac{20}{1023} \sqrt{863}e^{12}, \frac{2}{3069} \sqrt{381446}e^{13},$ $\frac{8}{1023} \sqrt{4315}e^{14} + \frac{3069}{3069} \sqrt{446171}e^{23}, \frac{2}{3069} \sqrt{719742}e^{26}$	$(-\frac{239}{1023}, \frac{128}{3069}, \frac{140}{1023}, \frac{115}{279}, \frac{1429}{3069}, -\frac{19}{99}, -\frac{3}{31}, \frac{548}{3069}, -\frac{461}{3069})$ $+ \frac{4}{3069} \sqrt{233873}e^5 \otimes e_7 + \frac{4}{3069} \sqrt{353830}e^4 \otimes e_9$	{12467, 1345, 259, 3679}
941:16	$0, 0, 0, 0, 0, \frac{2}{45} \sqrt{26}e^{12}, \frac{2}{15} \sqrt{13}e^{13}, \frac{2}{15} \sqrt{13}e^{14} + \frac{2}{45} \sqrt{91}e^{23},$ $\frac{2}{45} \sqrt{130}e^{26}$	$(-\frac{11}{45}, \frac{4}{45}, \frac{1}{15}, \frac{2}{5}, \frac{23}{45}, -\frac{7}{45}, -\frac{8}{45}, \frac{7}{45}, -\frac{1}{15})$ $+ \frac{2}{15} \sqrt{26}e^5 \otimes e_9 + \frac{2}{45} \sqrt{286}e^4 \otimes e_7$	{1345, 1578, 3679, 4689}
941:17	$0, 0, 0, 0, 0, \frac{3}{1417} \sqrt{14062}e^{12}, \frac{15}{1417} \sqrt{790}e^{13}, \frac{12}{1417} \sqrt{1343}e^{34},$ $\frac{24}{1417} \sqrt{158}e^{16} + \frac{15}{1417} \sqrt{2686}e^{23}$	$(-\frac{136}{1417}, \frac{303}{1417}, -\frac{272}{1417}, \frac{278}{1417}, \frac{742}{1417}, \frac{167}{1417}, -\frac{408}{1417}, \frac{6}{1417}, \frac{31}{1417})$ $+ \frac{45}{1417} \sqrt{474}e^2 \otimes e_7 + \frac{60}{1417} \sqrt{237}e^5 \otimes e_9$	{14567, 15678, 2469, 2689}
941:17	$0, 0, 0, 0, 0, \frac{2}{1055} \sqrt{16318}e^{12}, \frac{8}{1055} \sqrt{123}e^{13}, \frac{2}{1055} \sqrt{20254}e^{34},$ $\frac{2}{1055} \sqrt{16318}e^{16} + \frac{2}{1055} \sqrt{15539}e^{23}$	$(\frac{19}{1055}, \frac{86}{1055}, \frac{38}{1055}, -\frac{101}{1055}, -\frac{183}{1055}, \frac{21}{211}, \frac{57}{1055}, -\frac{63}{1055}, \frac{124}{1055})$ $+ \frac{24}{1055} \sqrt{82}e^4 \otimes e_5 + \frac{2}{1055} \sqrt{27142}e^1 \otimes e_8$	{123479, 13467, 235689, 358}
941:17	$0, 0, 0, 0, 0, \frac{1}{44} \sqrt{130}e^{12}, \frac{1}{44} \sqrt{190}e^{13}, \frac{1}{88} \sqrt{830}e^{34},$ $\frac{1}{44} \sqrt{130}e^{16} + \frac{1}{88} \sqrt{310}e^{23}$	$(-\frac{5}{88}, \frac{7}{44}, -\frac{5}{44}, \frac{7}{44}, -\frac{5}{88}, \frac{9}{88}, -\frac{15}{88}, \frac{1}{22}, \frac{1}{22})$ $+ \frac{1}{44} \sqrt{70}e^5 \otimes e_7 + \frac{1}{88} \sqrt{930}e^2 \otimes e_8 + \frac{1}{88} \sqrt{930}e^4 \otimes e_9$	{129, 1468, 25679, 4578}
941:17	$0, 0, 0, 0, 0, \frac{1}{44} \sqrt{130}e^{12}, \frac{1}{44} \sqrt{190}e^{13}, \frac{1}{88} \sqrt{830}e^{34},$ $\frac{1}{44} \sqrt{130}e^{16} + \frac{1}{88} \sqrt{310}e^{23}$	$(-\frac{5}{88}, \frac{7}{44}, -\frac{5}{44}, \frac{7}{44}, -\frac{5}{88}, \frac{9}{88}, -\frac{15}{88}, \frac{1}{22}, \frac{1}{22})$ $+ \frac{1}{44} \sqrt{70}e^5 \otimes e_7 + \frac{1}{88} \sqrt{930}e^2 \otimes e_8 - \frac{1}{88} \sqrt{930}e^4 \otimes e_9$	{129, 1468, 25679, 4578}
941:17	$0, 0, 0, 0, 0, \frac{15}{1387} \sqrt{814}e^{12}, \frac{3}{1387} \sqrt{4070}e^{13}, \frac{66}{1387} \sqrt{85}e^{34},$ $\frac{9}{1387} \sqrt{4510}e^{16} + \frac{6}{1387} \sqrt{8305}e^{23}$	$(\frac{35}{1387}, \frac{333}{1387}, \frac{70}{1387}, -\frac{232}{1387}, -\frac{425}{1387}, \frac{368}{1387}, \frac{105}{1387}, -\frac{162}{1387}, \frac{403}{1387})$ $+ \frac{27}{1387} \sqrt{770}e^3 \otimes e_5 + \frac{6}{1387} \sqrt{18645}e^2 \otimes e_8$	{12347, 136789, 2346, 389}
941:17	$0, 0, 0, 0, 0, \frac{12}{181} \sqrt{143}e^{12}, \frac{30}{181} \sqrt{11}e^{13}, \frac{6}{181} \sqrt{22}e^{34},$ $\frac{6}{181} \sqrt{22}e^{16} + \frac{30}{181} \sqrt{22}e^{23}$	$(\frac{2}{181}, \frac{79}{181}, \frac{4}{181}, \frac{29}{181}, -\frac{119}{181}, \frac{81}{181}, \frac{6}{181}, \frac{33}{181}, \frac{83}{181})$ $+ \frac{30}{181} \sqrt{66}e^2 \otimes e_5$	{12489, 129, 14568, 156, 246789, 2679, 4578, 57}
941:17	$0, 0, 0, 0, 0, \frac{2}{665} \sqrt{18426}e^{12}, \frac{2}{665} \sqrt{1554}e^{13}, \frac{2}{665} \sqrt{18426}e^{34},$ $\frac{2}{665} \sqrt{21534}e^{16} + \frac{2}{665} \sqrt{13838}e^{23}$	$(\frac{4}{133}, \frac{1}{35}, \frac{8}{133}, -\frac{24}{95}, \frac{207}{665}, \frac{39}{665}, \frac{12}{133}, -\frac{128}{665}, \frac{59}{665})$ $+ \frac{12}{665} \sqrt{259}e^5 \otimes e_9 + \frac{4}{665} \sqrt{8473}e^1 \otimes e_8$	{123479, 134567, 23689, 358}
941:17	$0, 0, 0, 0, 0, \frac{24}{1321} \sqrt{591}e^{12}, \frac{8}{1321} \sqrt{1182}e^{13}, \frac{1}{1321} \sqrt{533082}e^{34},$ $\frac{1}{1321} \sqrt{72102}e^{16} + \frac{8}{1321} \sqrt{591}e^{23}$	$(-\frac{134}{1321}, \frac{512}{1321}, -\frac{268}{1321}, \frac{189}{1321}, \frac{151}{1321}, \frac{378}{1321}, -\frac{402}{1321}, -\frac{79}{1321}, \frac{244}{1321})$ $+ \frac{3}{1321} \sqrt{64222}e^4 \otimes e_7 + \frac{3}{1321} \sqrt{89438}e^2 \otimes e_8$	{14568, 1468, 25679, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:17	$0, 0, 0, 0, 0, \frac{10}{451}\sqrt{15}e^{12}, \frac{1}{451}\sqrt{510}e^{13}, \frac{1}{451}\sqrt{2010}e^{34},$ $\frac{1}{451}\sqrt{2010}e^{16} + \frac{1}{451}\sqrt{1010}e^{23}$	$(-\frac{2}{451}, -\frac{4}{451}, -\frac{4}{451}, -\frac{3}{451}, \frac{45}{451}, -\frac{6}{451}, -\frac{6}{451}, -\frac{7}{451}, -\frac{8}{451})$ $+\frac{1}{451}\sqrt{2530}e^1 \otimes e_8 + \frac{3}{451}\sqrt{170}e^4 \otimes e_9$	{134567, 13467, 235689, 23689}
941:17	$0, 0, 0, 0, 0, \frac{58}{6149}\sqrt{287}e^{12}, \frac{29}{559}\sqrt{30}e^{13}, \frac{29}{6149}\sqrt{2638}e^{34},$ $\frac{29}{6149}\sqrt{1874}e^{16} + \frac{58}{6149}\sqrt{1194}e^{23}$	$(-\frac{58}{6149}, \frac{667}{6149}, -\frac{116}{6149}, -\frac{87}{559}, \frac{1392}{6149}, \frac{609}{6149}, -\frac{174}{6149}, -\frac{1073}{6149}, \frac{551}{6149})$ $+\frac{29}{6149}\sqrt{4470}e^2 \otimes e_7 + \frac{58}{6149}\sqrt{1261}e^3 \otimes e_4 + \frac{58}{6149}\sqrt{573}e^5 \otimes e_9$	{1457, 249}
941:17	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{5}e^{12}, \frac{4}{47}\sqrt{30}e^{13}, \frac{6}{47}\sqrt{5}e^{34},$ $\frac{1}{47}\sqrt{255}e^{16} + \frac{6}{47}\sqrt{10}e^{23}$	$(\frac{1}{47}, \frac{4}{47}, \frac{2}{47}, -\frac{13}{47}, \frac{18}{47}, \frac{5}{47}, \frac{3}{47}, -\frac{11}{47}, \frac{6}{47})$ $+\frac{15}{47}e^2 \otimes e_8 + \frac{1}{47}\sqrt{465}e^5 \otimes e_7 + \frac{1}{47}\sqrt{645}e^3 \otimes e_4$	{124679, 2459}
941:17	$0, 0, 0, 0, 0, \frac{20}{637}\sqrt{282}e^{12}, \frac{160}{637}e^{13}, \frac{20}{637}\sqrt{282}e^{34},$ $\frac{20}{637}\sqrt{34}e^{16} + \frac{40}{637}\sqrt{31}e^{23}$	$(-\frac{45}{637}, \frac{250}{637}, -\frac{90}{637}, -\frac{60}{637}, \frac{265}{637}, \frac{205}{637}, -\frac{135}{637}, -\frac{150}{637}, \frac{160}{637})$ $+\frac{40}{637}\sqrt{186}e^2 \otimes e_8 + \frac{80}{637}\sqrt{23}e^5 \otimes e_7$	{1259, 14568, 2679, 478}
941:17	$0, 0, 0, 0, 0, \frac{3}{301}\sqrt{1430}e^{12}, \frac{1}{301}\sqrt{2730}e^{13}, \frac{20}{301}\sqrt{39}e^{34},$ $\frac{3}{301}\sqrt{1430}e^{16} + \frac{20}{301}\sqrt{26}e^{23}$	$(\frac{19}{301}, \frac{17}{301}, \frac{38}{301}, -\frac{12}{43}, -\frac{27}{301}, \frac{36}{301}, \frac{57}{301}, -\frac{46}{301}, \frac{55}{301})$ $+\frac{2}{301}\sqrt{6565}e^1 \otimes e_8 + \frac{3}{301}\sqrt{910}e^3 \otimes e_5$	{12349, 1346, 236789, 378}
941:17	$0, 0, 0, 0, 0, \frac{20}{637}\sqrt{34}e^{12}, \frac{160}{637}e^{13}, \frac{20}{637}\sqrt{282}e^{34},$ $\frac{20}{637}\sqrt{282}e^{16} + \frac{40}{637}\sqrt{31}e^{23}$	$(-\frac{45}{637}, \frac{2}{637}, -\frac{90}{637}, \frac{24}{49}, \frac{265}{637}, -\frac{43}{637}, -\frac{135}{637}, \frac{222}{637}, -\frac{88}{637})$ $+\frac{40}{637}\sqrt{186}e^4 \otimes e_9 + \frac{80}{637}\sqrt{23}e^5 \otimes e_7$	{1259, 14568, 2679, 478}
941:17	$0, 0, 0, 0, 0, \frac{1}{298}\sqrt{16113}e^{12}, \frac{5}{596}\sqrt{1965}e^{13}, \frac{3}{596}\sqrt{4978}e^{34},$ $\frac{3}{298}\sqrt{393}e^{16} + \frac{5}{596}\sqrt{1965}e^{23}$	$(-\frac{111}{1192}, \frac{453}{1192}, -\frac{111}{596}, \frac{7}{298}, \frac{74}{149}, \frac{171}{596}, -\frac{333}{1192}, -\frac{97}{596}, \frac{231}{1192})$ $+\frac{15}{298}\sqrt{262}e^2 \otimes e_7 + \frac{15}{596}\sqrt{786}e^5 \otimes e_8$	{12345, 1238, 34579, 3789}
941:17	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{158}e^{12}, \frac{12}{251}\sqrt{5}e^{13}, \frac{4}{251}\sqrt{205}e^{34},$ $\frac{36}{251}\sqrt{2}e^{16} + \frac{4}{251}\sqrt{170}e^{23}$	$(-\frac{8}{251}, \frac{30}{251}, -\frac{16}{251}, -\frac{8}{251}, \frac{30}{251}, \frac{22}{251}, -\frac{24}{251}, -\frac{24}{251}, \frac{14}{251})$ $+\frac{4}{251}\sqrt{141}e^4 \otimes e_7 + \frac{4}{251}\sqrt{301}e^1 \otimes e_8 + \frac{8}{251}\sqrt{3}e^5 \otimes e_9$	{12349, 13456, 236789, 3578}
941:17	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{158}e^{12}, \frac{12}{251}\sqrt{5}e^{13}, \frac{4}{251}\sqrt{205}e^{34},$ $\frac{36}{251}\sqrt{2}e^{16} + \frac{4}{251}\sqrt{170}e^{23}$	$(-\frac{8}{251}, \frac{30}{251}, -\frac{16}{251}, -\frac{8}{251}, \frac{30}{251}, \frac{22}{251}, -\frac{24}{251}, -\frac{24}{251}, \frac{14}{251})$ $-\frac{4}{251}\sqrt{141}e^4 \otimes e_7 + \frac{4}{251}\sqrt{301}e^1 \otimes e_8 + \frac{8}{251}\sqrt{3}e^5 \otimes e_9$	{12349, 13456, 236789, 3578}
941:17	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{210}e^{13}, \frac{2}{35}\sqrt{35}e^{34},$ $\frac{1}{35}\sqrt{133}e^{16} + \frac{1}{35}\sqrt{210}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{1}{35}\sqrt{21}e^5 \otimes e_8 + \frac{1}{35}\sqrt{231}e^2 \otimes e_7 + \frac{1}{35}\sqrt{259}e^3 \otimes e_4$	{147, 249}
941:17	$0, 0, 0, 0, 0, \frac{16}{1167}\sqrt{293}e^{12}, \frac{20}{1167}\sqrt{293}e^{13}, \frac{2}{389}\sqrt{13478}e^{34},$ $\frac{16}{1167}\sqrt{293}e^{16} + \frac{10}{1167}\sqrt{2051}e^{23}$	$(-\frac{37}{389}, \frac{76}{389}, -\frac{74}{389}, \frac{253}{1167}, \frac{617}{1167}, \frac{39}{389}, -\frac{111}{389}, \frac{31}{1167}, \frac{2}{389})$ $+\frac{10}{1167}\sqrt{6446}e^4 \otimes e_7 + \frac{20}{1167}\sqrt{1465}e^5 \otimes e_8$	{123459, 13456, 236789, 378}
941:17	$0, 0, 0, 0, 0, \frac{4}{557}\sqrt{1505}e^{12}, \frac{36}{557}\sqrt{70}e^{13}, \frac{60}{557}\sqrt{7}e^{34},$ $\frac{4}{557}\sqrt{1505}e^{16} + \frac{36}{557}\sqrt{42}e^{23}$	$(\frac{73}{557}, -\frac{16}{557}, \frac{146}{557}, -\frac{134}{557}, -\frac{207}{557}, \frac{57}{557}, \frac{219}{557}, \frac{12}{557}, \frac{130}{557})$ $+\frac{8}{557}\sqrt{2065}e^3 \otimes e_4 + \frac{8}{557}\sqrt{2310}e^1 \otimes e_5$	{12479, 1467, 24569, 45}
941:17	$0, 0, 0, 0, 0, \frac{66}{1387}\sqrt{85}e^{12}, \frac{6}{1387}\sqrt{8305}e^{13}, \frac{3}{1387}\sqrt{4510}e^{34},$ $\frac{15}{1387}\sqrt{814}e^{16} + \frac{3}{1387}\sqrt{4070}e^{23}$	$(-\frac{41}{1387}, \frac{372}{1387}, -\frac{82}{1387}, \frac{183}{1387}, -\frac{536}{1387}, \frac{331}{1387}, -\frac{123}{1387}, \frac{101}{1387}, \frac{290}{1387})$ $+\frac{27}{1387}\sqrt{770}e^2 \otimes e_7 + \frac{6}{1387}\sqrt{18645}e^1 \otimes e_5$	{123489, 1239, 34578, 357}
941:17	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{3}e^{12}, \frac{1}{13}\sqrt{6}e^{13}, \frac{4}{13}\sqrt{3}e^{34},$ $\frac{4}{13}\sqrt{3}e^{16} + \frac{1}{13}\sqrt{3}e^{23}$	$(0, \frac{2}{13}, 0, -\frac{3}{13}, \frac{3}{13}, \frac{2}{13}, 0, -\frac{3}{13}, \frac{2}{13})$ $+\frac{1}{13}\sqrt{6}e^5 \otimes e_7 + \frac{1}{13}\sqrt{78}e^1 \otimes e_8 + \frac{3}{13}\sqrt{2}e^3 \otimes e_4$	{123479, 13467}
941:17	$0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246}e^{12}, \frac{74}{4565}\sqrt{307}e^{13}, \frac{37}{415}\sqrt{22}e^{34},$ $\frac{37}{4565}\sqrt{1762}e^{16} + \frac{37}{913}\sqrt{30}e^{23}$	$(-\frac{333}{4565}, \frac{74}{913}, -\frac{666}{4565}, \frac{1073}{4565}, \frac{1776}{4565}, \frac{37}{4565}, -\frac{999}{4565}, \frac{37}{415}, -\frac{296}{4565})$ $+\frac{222}{913}\sqrt{3}e^5 \otimes e_8 + \frac{37}{4565}\sqrt{1622}e^2 \otimes e_7 + \frac{74}{4565}\sqrt{989}e^4 \otimes e_9$	{1259, 478}
941:17	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{7}e^{12}, \frac{2}{25}\sqrt{6}e^{13}, \frac{4}{25}\sqrt{7}e^{34},$ $\frac{4}{25}\sqrt{7}e^{16} + \frac{2}{25}\sqrt{3}e^{23}$	$(\frac{1}{75}, \frac{8}{75}, \frac{2}{75}, -\frac{19}{75}, \frac{7}{25}, \frac{3}{25}, \frac{1}{25}, -\frac{17}{75}, \frac{2}{15})$ $+\frac{4}{25}\sqrt{3}e^5 \otimes e_7 + \frac{6}{25}\sqrt{6}e^1 \otimes e_8$	{123459, 13456, 236789, 378}
941:17	$0, 0, 0, 0, 0, \frac{2}{1117}\sqrt{618}e^{12}, \frac{1}{1117}\sqrt{1122}e^{13}, \frac{1}{1117}\sqrt{3318}e^{34},$ $\frac{1}{1117}\sqrt{3318}e^{16} + \frac{1}{1117}\sqrt{1578}e^{23}$	$(\frac{8}{1117}, -\frac{30}{1117}, \frac{16}{1117}, -\frac{11}{1117}, \frac{27}{1117}, -\frac{22}{1117}, \frac{24}{1117}, \frac{5}{1117}, -\frac{14}{1117})$ $+\frac{1}{1117}\sqrt{4002}e^1 \otimes e_8 + \frac{2}{1117}\sqrt{138}e^5 \otimes e_7 + \frac{3}{1117}\sqrt{282}e^4 \otimes e_9$	{134567, 23689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:17	$0, 0, 0, 0, 0, \frac{2}{665}\sqrt{21534}e^{12}, \frac{2}{665}\sqrt{1554}e^{13}, \frac{2}{665}\sqrt{18426}e^{34},$ $\frac{2}{665}\sqrt{18426}e^{16} + \frac{2}{665}\sqrt{13838}e^{23}$	$(\frac{4}{133}, \frac{103}{665}, \frac{8}{133}, -\frac{24}{95}, -\frac{9}{133}, \frac{123}{665}, \frac{12}{133}, -\frac{128}{665}, \frac{143}{665})$ $+ \frac{12}{665}\sqrt{259}e^2 \otimes e_5 + \frac{4}{665}\sqrt{8473}e^1 \otimes e_8$	{123479, 134567, 23689, 358}
941:17	$0, 0, 0, 0, 0, \frac{46}{3101}\sqrt{498}e^{12}, \frac{23}{3101}\sqrt{210}e^{13}, \frac{23}{3101}\sqrt{1614}e^{34},$ $\frac{115}{3101}\sqrt{78}e^{16} + \frac{92}{3101}\sqrt{62}e^{23}$	$(-\frac{46}{3101}, \frac{391}{3101}, -\frac{92}{3101}, -\frac{69}{443}, \frac{828}{3101}, \frac{345}{3101}, -\frac{138}{3101}, -\frac{575}{3101}, \frac{299}{3101})$ $+ \frac{207}{3101}\sqrt{14}e^2 \otimes e_7 + \frac{276}{3101}\sqrt{7}e^5 \otimes e_9 + \frac{46}{3101}\sqrt{853}e^1 \otimes e_8$	{12349, 3578}
941:17	$0, 0, 0, 0, 0, \frac{2}{3461}\sqrt{213942}e^{12}, \frac{2}{3461}\sqrt{485211}e^{13}, \frac{6}{3461}\sqrt{91802}e^{34},$ $\frac{44}{3461}\sqrt{1182}e^{16} + \frac{4}{3461}\sqrt{13002}e^{23}$	$(-\frac{156}{3461}, -\frac{97}{3461}, \frac{312}{3461}, \frac{773}{3461}, \frac{1643}{3461}, -\frac{253}{3461}, \frac{468}{3461}, \frac{461}{3461}, \frac{409}{3461})$ $+ \frac{6}{3461}\sqrt{119382}e^4 \otimes e_9 + \frac{6}{3461}\sqrt{84710}e^5 \otimes e_8$	{1259, 1468, 25679, 478}
941:17	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{10}e^{12}, \frac{6}{47}\sqrt{10}e^{13}, \frac{12}{47}\sqrt{2}e^{34},$ $\frac{6}{47}\sqrt{10}e^{16} + \frac{6}{47}\sqrt{11}e^{23}$	$(-\frac{1}{47}, \frac{6}{47}, -\frac{2}{47}, \frac{15}{47}, -\frac{19}{47}, \frac{5}{47}, -\frac{3}{47}, \frac{13}{47}, \frac{4}{47})$ $+ \frac{12}{47}\sqrt{6}e^1 \otimes e_5 + \frac{18}{47}\sqrt{2}e^4 \otimes e_7$	{12349, 1346, 2356789, 3578}
941:17	$0, 0, 0, 0, 0, \frac{66}{1285}\sqrt{10}e^{12}, \frac{88}{1285}\sqrt{3}e^{13}, \frac{66}{1285}\sqrt{10}e^{34},$ $\frac{132}{1285}\sqrt{2}e^{16} + \frac{11}{1285}\sqrt{2298}e^{23}$	$(\frac{22}{1285}, \frac{88}{1285}, \frac{44}{1285}, -\frac{319}{1285}, \frac{99}{257}, \frac{22}{257}, \frac{66}{1285}, -\frac{55}{257}, \frac{132}{1285})$ $+ \frac{11}{1285}\sqrt{2382}e^5 \otimes e_9 + \frac{11}{1285}\sqrt{2598}e^2 \otimes e_8 + \frac{33}{1285}\sqrt{238}e^3 \otimes e_4$	{14568, 4578}
941:17	$0, 0, 0, 0, 0, \frac{78}{1661}\sqrt{46}e^{12}, \frac{26}{1661}\sqrt{282}e^{13}, \frac{13}{1661}\sqrt{2370}e^{34},$ $\frac{13}{1661}\sqrt{1182}e^{16} + \frac{52}{1661}\sqrt{78}e^{23}$	$(-\frac{130}{1661}, \frac{364}{1661}, -\frac{260}{1661}, \frac{117}{1661}, \frac{611}{1661}, \frac{234}{1661}, -\frac{390}{1661}, -\frac{13}{151}, \frac{104}{1661})$ $+ \frac{156}{1661}\sqrt{19}e^5 \otimes e_9 + \frac{39}{1661}\sqrt{238}e^4 \otimes e_7 + \frac{39}{1661}\sqrt{462}e^2 \otimes e_8$	{14568, 2679}
941:17	$0, 0, 0, 0, 0, \frac{44}{3461}\sqrt{1182}e^{12}, \frac{2}{3461}\sqrt{485211}e^{13}, \frac{6}{3461}\sqrt{91802}e^{34},$ $\frac{2}{3461}\sqrt{213942}e^{16} + \frac{4}{3461}\sqrt{13002}e^{23}$	$(-\frac{156}{3461}, \frac{1115}{3461}, -\frac{312}{3461}, \frac{245}{3461}, -\frac{937}{3461}, \frac{959}{3461}, -\frac{468}{3461}, -\frac{67}{3461}, \frac{803}{3461})$ $+ \frac{6}{3461}\sqrt{119382}e^2 \otimes e_8 + \frac{6}{3461}\sqrt{84710}e^4 \otimes e_5$	{1259, 1468, 25679, 478}
941:17	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{30}e^{12}, \frac{2}{43}\sqrt{39}e^{13}, \frac{3}{43}\sqrt{22}e^{34},$ $\frac{2}{43}\sqrt{30}e^{16} + \frac{1}{43}\sqrt{78}e^{23}$	$(-\frac{3}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{4}{43}, \frac{4}{43}, -\frac{9}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_8 + \frac{3}{43}\sqrt{26}e^4 \otimes e_9$	{1259, 129, 14568, 1468, 25679, 2679, 4578, 478}
941:17	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{30}e^{12}, \frac{2}{43}\sqrt{39}e^{13}, \frac{3}{43}\sqrt{22}e^{34},$ $\frac{2}{43}\sqrt{30}e^{16} + \frac{1}{43}\sqrt{78}e^{23}$	$(-\frac{3}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{4}{43}, \frac{4}{43}, -\frac{9}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_8 - \frac{3}{43}\sqrt{26}e^4 \otimes e_9$	{1259, 129, 14568, 1468, 25679, 2679, 4578, 478}
941:17	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{38}e^{12}, \frac{24}{187}\sqrt{26}e^{13}, \frac{12}{187}\sqrt{142}e^{34},$ $\frac{12}{187}\sqrt{142}e^{16} + \frac{24}{187}\sqrt{13}e^{23}$	$(-\frac{7}{187}, -\frac{14}{187}, -\frac{14}{187}, \frac{116}{187}, \frac{31}{187}, \frac{21}{187}, -\frac{21}{187}, -\frac{6}{11}, -\frac{28}{187})$ $+ \frac{24}{187}\sqrt{78}e^4 \otimes e_9$	{1259, 129, 14568, 1468, 25679, 2679, 4578, 478}
941:17	$0, 0, 0, 0, 0, \frac{20}{301}\sqrt{39}e^{12}, \frac{1}{301}\sqrt{2730}e^{13}, \frac{3}{301}\sqrt{1430}e^{34},$ $\frac{3}{301}\sqrt{1430}e^{16} + \frac{20}{301}\sqrt{26}e^{23}$	$(-\frac{2}{301}, \frac{59}{301}, -\frac{4}{301}, -\frac{9}{43}, \frac{36}{301}, \frac{57}{301}, -\frac{6}{301}, -\frac{67}{301}, \frac{55}{301})$ $+ \frac{2}{301}\sqrt{6565}e^1 \otimes e_8 + \frac{3}{301}\sqrt{910}e^2 \otimes e_7$	{123459, 12349, 3578, 378}
941:17	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{2262}e^{12}, \frac{5}{89}\sqrt{174}e^{13}, \frac{6}{89}\sqrt{58}e^{34},$ $\frac{6}{89}\sqrt{58}e^{16} + \frac{5}{89}\sqrt{174}e^{23}$	$(-\frac{12}{89}, \frac{51}{89}, -\frac{24}{89}, \frac{26}{89}, \frac{14}{89}, \frac{39}{89}, -\frac{36}{89}, \frac{2}{89}, \frac{27}{89})$ $+ \frac{15}{89}\sqrt{58}e^2 \otimes e_7$	{123, 123458, 12348, 1235, 345789, 34789, 3579, 379}
941:17	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{13}e^{13}, \frac{12}{187}\sqrt{38}e^{34},$ $\frac{12}{187}\sqrt{142}e^{16} + \frac{24}{187}\sqrt{26}e^{23}$	$(\frac{19}{187}, \frac{12}{187}, \frac{38}{187}, \frac{12}{187}, -\frac{125}{187}, \frac{31}{187}, \frac{57}{187}, \frac{50}{187}, \frac{50}{187})$ $+ \frac{24}{187}\sqrt{78}e^1 \otimes e_5$	{12349, 12389, 1346, 1368, 2345679, 2356789, 3457, 3578}
941:17	$0, 0, 0, 0, 0, \frac{4}{557}\sqrt{1505}e^{12}, \frac{20}{557}\sqrt{42}e^{13}, \frac{4}{557}\sqrt{1505}e^{34},$ $\frac{60}{557}\sqrt{7}e^{16} + \frac{36}{557}\sqrt{70}e^{23}$	$(\frac{29}{557}, \frac{116}{557}, \frac{58}{557}, -\frac{222}{557}, \frac{57}{557}, \frac{145}{557}, \frac{87}{557}, -\frac{164}{557}, \frac{174}{557})$ $+ \frac{8}{557}\sqrt{2065}e^3 \otimes e_4 + \frac{8}{557}\sqrt{2310}e^2 \otimes e_8$	{135689, 13689, 35789, 3789}
941:17	$0, 0, 0, 0, 0, \frac{1}{298}\sqrt{16113}e^{12}, \frac{5}{596}\sqrt{1965}e^{13}, \frac{3}{596}\sqrt{4978}e^{34},$ $\frac{3}{298}\sqrt{393}e^{16} + \frac{5}{596}\sqrt{1965}e^{23}$	$(-\frac{111}{1192}, \frac{453}{1192}, -\frac{111}{596}, \frac{239}{596}, -\frac{77}{298}, \frac{171}{596}, -\frac{333}{1192}, \frac{32}{149}, \frac{231}{1192})$ $+ \frac{15}{298}\sqrt{262}e^2 \otimes e_7 + \frac{15}{596}\sqrt{786}e^4 \otimes e_5$	{1234, 12358, 3479, 35789}
941:17	$0, 0, 0, 0, 0, \frac{12}{47}\sqrt{2}e^{12}, \frac{6}{47}\sqrt{11}e^{13}, \frac{6}{47}\sqrt{10}e^{34},$ $\frac{6}{47}\sqrt{10}e^{16} + \frac{6}{47}\sqrt{10}e^{23}$	$(-\frac{2}{47}, \frac{5}{47}, -\frac{4}{47}, \frac{19}{47}, -\frac{13}{47}, \frac{3}{47}, -\frac{6}{47}, \frac{15}{47}, \frac{1}{47})$ $+ \frac{12}{47}\sqrt{6}e^4 \otimes e_9 + \frac{18}{47}\sqrt{2}e^2 \otimes e_5$	{129, 14568, 2679, 4578}
941:17	$0, 0, 0, 0, 0, \frac{6}{341}\sqrt{38}e^{12}, \frac{10}{341}\sqrt{114}e^{13}, \frac{2}{341}\sqrt{5358}e^{34},$ $\frac{6}{341}\sqrt{5358}e^{16} + \frac{10}{341}\sqrt{114}e^{23}$	$(-\frac{28}{341}, \frac{19}{341}, -\frac{56}{341}, \frac{144}{341}, \frac{191}{341}, -\frac{9}{341}, -\frac{84}{341}, \frac{8}{31}, -\frac{37}{341})$ $+ \frac{60}{341}\sqrt{19}e^4 \otimes e_7 + \frac{60}{341}\sqrt{19}e^5 \otimes e_9$	{123456, 1349, 23578, 36789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:17	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{10}e^{12}, \frac{6}{47}\sqrt{11}e^{13}, \frac{6}{47}\sqrt{10}e^{34},$ $\frac{12}{47}\sqrt{2}e^{16} + \frac{6}{47}\sqrt{10}e^{23}$	$(-\frac{2}{47}, \frac{9}{47}, -\frac{4}{47}, -\frac{5}{47}, \frac{23}{47}, \frac{7}{47}, -\frac{6}{47}, -\frac{9}{47}, \frac{5}{47})$ $+\frac{12}{47}\sqrt{6}e^2 \otimes e_8 + \frac{18}{47}\sqrt{2}e^5 \otimes e_9$	{129, 14568, 2679, 4578}
941:17	$0, 0, 0, 0, 0, \frac{1}{46}\sqrt{777}e^{12}, \frac{5}{92}\sqrt{111}e^{13}, \frac{3}{92}\sqrt{962}e^{34},$ $\frac{1}{46}\sqrt{777}e^{16} + \frac{5}{92}\sqrt{111}e^{23}$	$(\frac{3}{184}, \frac{31}{184}, \frac{3}{92}, -\frac{11}{46}, 1, \frac{17}{92}, \frac{9}{184}, -\frac{19}{92}, \frac{37}{184})$ $+\frac{15}{92}\sqrt{74}e^5 \otimes e_8$	{1234579, 123789, 134567, 13678, 234569, 23689, 345, 38}
941:17	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{5358}e^{12}, \frac{10}{341}\sqrt{114}e^{13}, \frac{2}{341}\sqrt{5358}e^{34},$ $\frac{6}{341}\sqrt{38}e^{16} + \frac{10}{341}\sqrt{114}e^{23}$	$(-\frac{28}{341}, \frac{119}{341}, -\frac{56}{341}, \frac{144}{341}, -\frac{109}{341}, \frac{91}{341}, -\frac{84}{341}, \frac{8}{31}, \frac{63}{341})$ $+\frac{60}{341}\sqrt{19}e^2 \otimes e_5 + \frac{60}{341}\sqrt{19}e^4 \otimes e_7$	{1234, 134569, 23678, 35789}
941:17	$0, 0, 0, 0, 0, \frac{4}{27}\sqrt{21}e^{12}, \frac{8}{9}e^{13}, \frac{4}{27}\sqrt{21}e^{34}, \frac{4}{27}\sqrt{21}e^{16} + \frac{8}{9}e^{23}$	$(\frac{5}{27}, -\frac{2}{27}, \frac{10}{27}, -\frac{14}{27}, \frac{1}{9}, \frac{1}{9}, \frac{5}{9}, -\frac{4}{27}, \frac{8}{27})$ $+\frac{8}{9}\sqrt{2}e^3 \otimes e_4$	{1245679, 124679, 1457, 147, 2459, 249, 456, 46}
941:17	$0, 0, 0, 0, 0, \frac{1}{136}\sqrt{770}e^{12}, \frac{1}{272}\sqrt{12045}e^{13}, \frac{1}{272}\sqrt{7590}e^{34},$ $\frac{1}{272}\sqrt{7590}e^{16} + \frac{1}{272}\sqrt{12045}e^{23}$	$(-\frac{1}{544}, \frac{107}{544}, -\frac{1}{272}, -\frac{7}{34}, \frac{3}{68}, \frac{53}{272}, -\frac{3}{544}, -\frac{57}{272}, \frac{105}{544})$ $+\frac{1}{272}\sqrt{13530}e^2 \otimes e_7 + \frac{1}{272}\sqrt{15070}e^3 \otimes e_4$	{1457, 147, 2459, 249}
941:17	$0, 0, 0, 0, 0, \frac{3}{1387}\sqrt{4510}e^{12}, \frac{3}{1387}\sqrt{4070}e^{13}, \frac{66}{1387}\sqrt{85}e^{34},$ $\frac{15}{1387}\sqrt{814}e^{16} + \frac{6}{1387}\sqrt{8305}e^{23}$	$(\frac{35}{1387}, -\frac{119}{1387}, \frac{70}{1387}, \frac{446}{1387}, -\frac{425}{1387}, -\frac{84}{1387}, \frac{105}{1387}, \frac{516}{1387}, -\frac{49}{1387})$ $+\frac{27}{1387}\sqrt{770}e^3 \otimes e_5 + \frac{6}{1387}\sqrt{18645}e^4 \otimes e_9$	{123467, 13789, 234, 3689}
941:17	$0, 0, 0, 0, 0, \frac{1}{573}\sqrt{24662}e^{12}, \frac{5}{573}\sqrt{2926}e^{13}, \frac{2}{573}\sqrt{12122}e^{34},$ $\frac{1}{573}\sqrt{24662}e^{16} + \frac{10}{573}\sqrt{209}e^{23}$	$(-\frac{3}{191}, \frac{19}{191}, -\frac{6}{191}, \frac{182}{573}, -\frac{227}{573}, \frac{16}{191}, -\frac{9}{191}, \frac{164}{573}, \frac{13}{191})$ $+\frac{10}{573}\sqrt{1045}e^4 \otimes e_7 + \frac{55}{573}\sqrt{38}e^3 \otimes e_5$	{125679, 157, 24589, 4568}
941:17	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494}e^{12}, \frac{1}{355}\sqrt{4498}e^{13}, \frac{2}{355}\sqrt{4498}e^{34},$ $\frac{2}{355}\sqrt{4498}e^{16} + \frac{1}{71}\sqrt{1038}e^{23}$	$(-\frac{36}{355}, \frac{13}{71}, -\frac{72}{355}, \frac{166}{355}, \frac{42}{355}, \frac{29}{355}, -\frac{108}{355}, \frac{94}{355}, -\frac{7}{355})$ $+\frac{1}{355}\sqrt{47402}e^2 \otimes e_7 + \frac{4}{355}\sqrt{3806}e^4 \otimes e_9$	{1259, 129, 4578, 478}
941:17	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{26}e^{13}, \frac{12}{187}\sqrt{142}e^{34},$ $\frac{12}{187}\sqrt{38}e^{16} + \frac{24}{187}\sqrt{13}e^{23}$	$(-\frac{7}{187}, \frac{90}{187}, -\frac{14}{187}, -\frac{40}{187}, \frac{31}{187}, \frac{83}{187}, -\frac{21}{187}, -\frac{54}{187}, \frac{76}{187})$ $+\frac{24}{187}\sqrt{78}e^2 \otimes e_8$	{1259, 129, 14568, 1468, 25679, 2679, 4578, 478}
941:17	$0, 0, 0, 0, 0, \frac{180}{353}e^{12}, \frac{4}{353}\sqrt{390}e^{13}, \frac{4}{353}\sqrt{1245}e^{34},$ $\frac{4}{353}\sqrt{1245}e^{16} + \frac{4}{353}\sqrt{390}e^{23}$	$(\frac{5}{353}, \frac{88}{353}, \frac{10}{353}, -\frac{42}{353}, -\frac{115}{353}, \frac{93}{353}, \frac{15}{353}, -\frac{32}{353}, \frac{98}{353})$ $+\frac{24}{353}\sqrt{65}e^1 \otimes e_5 + \frac{24}{353}\sqrt{65}e^2 \otimes e_8$	{123479, 13678, 234569, 358}
941:17	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{22}e^{12}, \frac{30}{181}\sqrt{22}e^{13}, \frac{12}{181}\sqrt{143}e^{34},$ $\frac{6}{181}\sqrt{22}e^{16} + \frac{30}{181}\sqrt{11}e^{23}$	$(-\frac{23}{181}, \frac{54}{181}, -\frac{46}{181}, \frac{129}{181}, \frac{31}{181}, \frac{31}{181}, -\frac{69}{181}, \frac{83}{181}, \frac{8}{181})$ $+\frac{30}{181}\sqrt{66}e^4 \otimes e_7$	{123459, 12349, 13456, 1346, 2356789, 236789, 3578, 378}
941:17	$0, 0, 0, 0, 0, \frac{1}{46}\sqrt{777}e^{12}, \frac{5}{92}\sqrt{111}e^{13}, \frac{3}{92}\sqrt{962}e^{34},$ $\frac{1}{46}\sqrt{777}e^{16} + \frac{5}{92}\sqrt{111}e^{23}$	$(\frac{3}{184}, \frac{31}{184}, \frac{3}{92}, \frac{53}{92}, \frac{29}{46}, \frac{17}{184}, \frac{9}{184}, \frac{14}{23}, \frac{37}{184})$ $+\frac{15}{92}\sqrt{74}e^4 \otimes e_5$	{123479, 1235789, 13467, 135678, 23469, 235689, 34, 358}
941:17	$0, 0, 0, 0, 0, \frac{14}{857}\sqrt{582}e^{12}, \frac{2}{857}\sqrt{32010}e^{13}, \frac{14}{857}\sqrt{582}e^{34},$ $\frac{2}{857}\sqrt{6014}e^{16} + \frac{2}{857}\sqrt{65766}e^{23}$	$(\frac{76}{857}, -\frac{129}{857}, \frac{152}{857}, -\frac{236}{857}, \frac{411}{857}, -\frac{53}{857}, \frac{228}{857}, -\frac{84}{857}, \frac{23}{857})$ $+\frac{4}{857}\sqrt{16878}e^5 \otimes e_9 + \frac{4}{857}\sqrt{21631}e^3 \otimes e_4$	{124679, 1457, 249, 456}
941:17	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{22}e^{12}, \frac{30}{181}\sqrt{11}e^{13}, \frac{6}{181}\sqrt{22}e^{34},$ $\frac{6}{181}\sqrt{143}e^{16} + \frac{30}{181}\sqrt{22}e^{23}$	$(\frac{2}{181}, -\frac{21}{181}, \frac{4}{181}, \frac{29}{181}, 1, -\frac{19}{181}, \frac{6}{181}, \frac{33}{181}, -\frac{17}{181})$ $+\frac{30}{181}\sqrt{66}e^5 \otimes e_9$	{12489, 129, 14568, 156, 246789, 2679, 4578, 57}
941:17	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{10}e^{12}, \frac{2}{31}\sqrt{3}e^{13}, \frac{2}{31}\sqrt{13}e^{34},$ $\frac{2}{31}\sqrt{10}e^{16} + \frac{2}{31}\sqrt{11}e^{23}$	$(-\frac{1}{31}, \frac{4}{31}, -\frac{2}{31}, -\frac{1}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+\frac{2}{31}\sqrt{19}e^1 \otimes e_8 + \frac{6}{31}e^4 \otimes e_7$	{123459, 12349, 13456, 1346, 2356789, 236789, 3578, 378}
941:17	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{10}e^{12}, \frac{2}{31}\sqrt{3}e^{13}, \frac{2}{31}\sqrt{13}e^{34},$ $\frac{2}{31}\sqrt{10}e^{16} + \frac{2}{31}\sqrt{11}e^{23}$	$(-\frac{1}{31}, \frac{4}{31}, -\frac{2}{31}, -\frac{1}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+\frac{2}{31}\sqrt{19}e^1 \otimes e_8 - \frac{6}{31}e^4 \otimes e_7$	{123459, 12349, 13456, 1346, 2356789, 236789, 3578, 378}
941:17	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{5}\sqrt{6}e^{34},$ $\frac{1}{10}\sqrt{26}e^{16} + \frac{1}{10}\sqrt{22}e^{23}$	$(0, \frac{1}{10}, 0, -\frac{1}{5}, \frac{3}{10}, \frac{1}{10}, 0, -\frac{1}{5}, \frac{1}{10})$ $+\frac{1}{10}\sqrt{10}e^3 \otimes e_4 + \frac{1}{10}\sqrt{38}e^1 \otimes e_8 + \frac{1}{10}\sqrt{6}e^5 \otimes e_9$	{123479, 134567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:17	$0, 0, 0, 0, 0, \frac{2}{857}\sqrt{6014}e^{12}, \frac{2}{857}\sqrt{32010}e^{13}, \frac{14}{857}\sqrt{582}e^{34},$ $\frac{14}{857}\sqrt{582}e^{16} + \frac{2}{857}\sqrt{65766}e^{23}$	$(\frac{76}{857}, \frac{103}{857}, \frac{152}{857}, -\frac{236}{857}, -\frac{285}{857}, \frac{179}{857}, \frac{228}{857}, -\frac{84}{857}, \frac{255}{857})$ $+ \frac{4}{857}\sqrt{16878}e^2 \otimes e_5 + \frac{4}{857}\sqrt{21631}e^3 \otimes e_4$	{124679, 1457, 249, 456}
941:17	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{26}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{2}{17}\sqrt{26}e^{34},$ $\frac{2}{17}\sqrt{26}e^{16} + \frac{2}{17}\sqrt{26}e^{23}$	$(0, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, 0, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{4}{17}\sqrt{10}e^1 \otimes e_8 + \frac{4}{17}\sqrt{3}e^3 \otimes e_4$	{1234579, 123479, 134567, 13467}
941:17	$0, 0, 0, 0, 0, \frac{3}{76}\sqrt{103}e^{12}, \frac{1}{152}\sqrt{7107}e^{13}, \frac{1}{152}\sqrt{206}e^{34},$ $\frac{3}{76}\sqrt{103}e^{16} + \frac{1}{152}\sqrt{7107}e^{23}$	$(\frac{33}{304}, -\frac{3}{304}, \frac{33}{152}, -\frac{35}{76}, \frac{33}{76}, \frac{15}{152}, \frac{99}{304}, -\frac{37}{152}, \frac{63}{304})$ $+ \frac{1}{152}\sqrt{10506}e^5 \otimes e_8 + \frac{1}{76}\sqrt{4429}e^3 \otimes e_4$	{1245679, 1457, 2459, 456}
941:17	$0, 0, 0, 0, 0, \frac{4}{351}\sqrt{1245}e^{12}, \frac{8}{117}\sqrt{70}e^{13}, \frac{4}{351}\sqrt{1245}e^{34},$ $\frac{4}{351}\sqrt{1245}e^{16} + \frac{16}{117}\sqrt{10}e^{23}$	$(\frac{1}{27}, \frac{2}{351}, \frac{2}{27}, -\frac{94}{351}, \frac{53}{117}, \frac{5}{117}, \frac{1}{9}, -\frac{68}{351}, \frac{28}{351})$ $+ \frac{16}{117}\sqrt{15}e^5 \otimes e_7 + \frac{32}{117}\sqrt{5}e^3 \otimes e_4$	{124679, 147, 2459, 456}
941:17	$0, 0, 0, 0, 0, \frac{12}{163}\sqrt{3}e^{12}, \frac{30}{163}\sqrt{6}e^{13}, \frac{12}{163}\sqrt{3}e^{34},$ $\frac{6}{163}\sqrt{87}e^{16} + \frac{30}{163}\sqrt{6}e^{23}$	$(-\frac{4}{163}, \frac{42}{163}, -\frac{8}{163}, \frac{17}{163}, -\frac{62}{163}, \frac{38}{163}, -\frac{12}{163}, \frac{9}{163}, \frac{34}{163})$ $+ \frac{90}{163}e^2 \otimes e_7 + \frac{90}{163}e^3 \otimes e_5$	{1457, 1578, 2459, 2589}
941:17	$0, 0, 0, 0, 0, \frac{4}{353}\sqrt{1245}e^{12}, \frac{4}{353}\sqrt{390}e^{13}, \frac{4}{353}\sqrt{1245}e^{34},$ $\frac{180}{353}e^{16} + \frac{4}{353}\sqrt{390}e^{23}$	$(\frac{5}{353}, -\frac{16}{353}, \frac{10}{353}, \frac{114}{353}, -\frac{115}{353}, -\frac{11}{353}, \frac{15}{353}, \frac{124}{353}, -\frac{6}{353})$ $+ \frac{24}{353}\sqrt{65}e^1 \otimes e_5 + \frac{24}{353}\sqrt{65}e^4 \otimes e_9$	{123789, 13467, 235689, 345}
941:17	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{58}e^{12}, \frac{5}{89}\sqrt{174}e^{13}, \frac{1}{89}\sqrt{2262}e^{34},$ $\frac{6}{89}\sqrt{58}e^{16} + \frac{5}{89}\sqrt{174}e^{23}$	$(\frac{13}{89}, \frac{1}{89}, \frac{26}{89}, \frac{1}{89}, -\frac{61}{89}, \frac{14}{89}, \frac{39}{89}, \frac{27}{89}, \frac{27}{89})$ $+ \frac{15}{89}\sqrt{58}e^3 \otimes e_5$	{12456789, 125679, 14578, 157, 24589, 259, 4568, 56}
941:18	$0, 0, 0, 0, 0, \frac{8}{3617}\sqrt{13962}e^{12}, \frac{2}{3617}\sqrt{619161}e^{13}, \frac{12}{3617}\sqrt{5370}e^{14},$ $\frac{2}{3617}\sqrt{392547}e^{16} + \frac{18}{3617}\sqrt{6265}e^{34}$	$(-\frac{101}{3617}, \frac{681}{3617}, -\frac{247}{3617}, \frac{726}{3617}, -\frac{1321}{3617}, \frac{580}{3617}, -\frac{348}{3617}, \frac{625}{3617}, \frac{479}{3617})$ $+ \frac{2}{3617}\sqrt{851682}e^3 \otimes e_5 + \frac{2}{3617}\sqrt{948342}e^4 \otimes e_7$	{134, 1578, 2379, 24589}
941:18	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{5}e^{13}, \frac{1}{9}\sqrt{5}e^{14}, \frac{2}{9}e^{16} + \frac{2}{9}e^{34}$	$(-\frac{1}{9}, \frac{2}{9}, 0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0)$ $+ \frac{1}{9}e^5 \otimes e_9 + \frac{2}{9}\sqrt{2}e^3 \otimes e_8 + \frac{2}{9}\sqrt{2}e^4 \otimes e_7$	{1345, 1578, 2379}
941:18	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{5}e^{13}, \frac{1}{9}\sqrt{5}e^{14}, \frac{2}{9}e^{16} + \frac{2}{9}e^{34}$	$(-\frac{1}{9}, \frac{2}{9}, 0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0)$ $+ \frac{1}{9}e^5 \otimes e_9 + \frac{2}{9}\sqrt{2}e^3 \otimes e_8 - \frac{2}{9}\sqrt{2}e^4 \otimes e_7$	{1345, 1578, 2379}
941:18	$0, 0, 0, 0, 0, \frac{1}{173}\sqrt{822}e^{12}, \frac{1}{346}\sqrt{21783}e^{13}, \frac{1}{346}\sqrt{21783}e^{14},$ $\frac{1}{173}\sqrt{685}e^{16} + \frac{1}{173}\sqrt{411}e^{34}$	$(\frac{7}{173}, \frac{12}{173}, \frac{203}{692}, -\frac{99}{692}, -\frac{123}{346}, \frac{19}{173}, \frac{231}{692}, -\frac{71}{692}, \frac{26}{173})$ $+ \frac{1}{346}\sqrt{41374}e^3 \otimes e_8 + \frac{1}{346}\sqrt{43566}e^1 \otimes e_5$	{1346, 1678, 235679, 245689}
941:18	$0, 0, 0, 0, 0, \frac{5}{57}\sqrt{33}e^{12}, \frac{1}{57}\sqrt{165}e^{13}, \frac{1}{57}\sqrt{627}e^{14},$ $\frac{3}{57}\sqrt{165}e^{16} + \frac{2}{57}\sqrt{165}e^{34}$	$(-\frac{3}{19}, \frac{6}{19}, -\frac{2}{19}, \frac{2}{19}, \frac{11}{19}, \frac{3}{19}, -\frac{5}{19}, -\frac{1}{19}, 0)$ $+ \frac{1}{57}\sqrt{1749}e^5 \otimes e_9 + \frac{4}{19}\sqrt{11}e^2 \otimes e_7$	{1239, 1567, 2469, 3457}
941:18	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{114}e^{12}, \frac{2}{27}\sqrt{38}e^{13}, \frac{1}{27}\sqrt{114}e^{14},$ $\frac{1}{27}\sqrt{38}e^{16} + \frac{1}{27}\sqrt{38}e^{34}$	$(-\frac{2}{9}, \frac{13}{27}, 0, \frac{1}{27}, \frac{14}{27}, \frac{7}{27}, -\frac{2}{9}, -\frac{5}{27}, \frac{1}{27})$ $+ \frac{1}{27}\sqrt{418}e^5 \otimes e_8 + \frac{1}{27}\sqrt{494}e^2 \otimes e_7$	{1238, 16789, 2468, 34789}
941:18	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{12874}e^{12}, \frac{8}{287}\sqrt{785}e^{13}, \frac{2}{287}\sqrt{6123}e^{14},$ $\frac{2}{287}\sqrt{314}e^{16} + \frac{2}{287}\sqrt{314}e^{34}$	$(-\frac{76}{287}, \frac{5}{7}, -\frac{33}{287}, \frac{86}{287}, \frac{7}{41}, \frac{129}{287}, -\frac{109}{287}, \frac{10}{287}, \frac{53}{287})$ $+ \frac{2}{287}\sqrt{37366}e^2 \otimes e_7$	{12359, 1239, 1567, 167, 24569, 2469, 3457, 347}
941:18	$0, 0, 0, 0, 0, \frac{1}{280}\sqrt{20046}e^{12}, \frac{1}{280}\sqrt{40863}e^{13}, \frac{1}{280}\sqrt{40863}e^{14},$ $\frac{1}{280}\sqrt{30326}e^{16} + \frac{1}{140}\sqrt{7710}e^{34}$	$(-\frac{19}{280}, \frac{81}{280}, \frac{281}{560}, -\frac{39}{112}, \frac{3}{20}, \frac{31}{140}, \frac{243}{560}, -\frac{233}{560}, \frac{43}{280})$ $+ \frac{1}{140}\sqrt{30583}e^3 \otimes e_8$	{134, 1345, 1578, 178, 23579, 2379, 24589, 2489}
941:18	$0, 0, 0, 0, 0, \frac{4}{2905}\sqrt{20329}e^{12}, \frac{2}{2905}\sqrt{604262}e^{13}, \frac{2}{2905}\sqrt{187167}e^{14},$ $\frac{2}{2905}\sqrt{272689}e^{16} + \frac{2}{581}\sqrt{9113}e^{34}$	$(-\frac{569}{2905}, \frac{1361}{2905}, \frac{528}{2905}, -\frac{61}{581}, \frac{41}{415}, \frac{792}{2905}, -\frac{41}{2905}, -\frac{874}{2905}, \frac{223}{2905})$ $+ \frac{2}{2905}\sqrt{834190}e^2 \otimes e_7 + \frac{2}{2905}\sqrt{250257}e^3 \otimes e_8$	{1234, 12345, 3579, 379}
941:18	$0, 0, 0, 0, 0, \frac{7}{411}\sqrt{177}e^{12}, \frac{7}{411}\sqrt{381}e^{13}, \frac{7}{411}\sqrt{21}e^{14},$ $\frac{14}{411}\sqrt{3}e^{16} + \frac{14}{411}\sqrt{111}e^{34}$	$(-\frac{21}{137}, \frac{42}{137}, \frac{14}{137}, -\frac{14}{137}, \frac{49}{137}, \frac{21}{137}, -\frac{7}{137}, -\frac{35}{137}, 0)$ $+ \frac{28}{137}\sqrt{5}e^2 \otimes e_7 + \frac{28}{137}\sqrt{6}e^3 \otimes e_8 + \frac{7}{411}\sqrt{669}e^5 \otimes e_9$	{15678, 24689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:18	$0, 0, 0, 0, 0, \frac{1}{72}\sqrt{5162}e^{12}, \frac{1}{72}\sqrt{1335}e^{13}, \frac{1}{72}\sqrt{1335}e^{14},$ $\frac{1}{72}\sqrt{1246}e^{16} + \frac{1}{72}\sqrt{1246}e^{34}$	$(-\frac{1}{9}, \frac{43}{72}, \frac{3}{16}, \frac{3}{16}, -\frac{23}{36}, \frac{35}{72}, \frac{11}{144}, \frac{11}{144}, \frac{3}{8})$ $+ \frac{1}{72}\sqrt{10502}e^2 \otimes e_5$	{12379, 1345678, 156, 23689, 345, 578}
941:18	$0, 0, 0, 0, 0, \frac{14}{153}\sqrt{11}e^{12}, \frac{7}{153}\sqrt{78}e^{13}, \frac{7}{153}\sqrt{78}e^{14},$ $\frac{7}{153}\sqrt{62}e^{16} + \frac{70}{153}e^{34}$	$(-\frac{1}{9}, \frac{61}{153}, \frac{6}{17}, -\frac{3}{17}, -\frac{37}{17}, \frac{44}{153}, \frac{37}{153}, -\frac{44}{153}, \frac{3}{17})$ $+ \frac{14}{17}e^3 \otimes e_8 + \frac{7}{153}\sqrt{218}e^2 \otimes e_5$	{1234, 1278, 3579, 4589}
941:18	$0, 0, 0, 0, 0, \frac{2}{381}\sqrt{4002}e^{12}, \frac{4}{127}\sqrt{290}e^{13}, \frac{2}{381}\sqrt{4611}e^{14},$ $\frac{2}{127}\sqrt{290}e^{16} + \frac{58}{381}\sqrt{6}e^{34}$	$(-\frac{16}{127}, \frac{53}{127}, \frac{11}{127}, \frac{10}{127}, -\frac{47}{127}, \frac{37}{127}, -\frac{5}{127}, -\frac{6}{127}, \frac{21}{127})$ $+ \frac{2}{381}\sqrt{14790}e^2 \otimes e_7 + \frac{8}{381}\sqrt{957}e^3 \otimes e_5$	{12348, 1456789, 2568, 3789}
941:18	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{3}e^{12}, \frac{1}{17}\sqrt{21}e^{13}, \frac{1}{17}\sqrt{21}e^{14},$ $\frac{2}{17}\sqrt{3}e^{16} + \frac{2}{17}\sqrt{21}e^{34}$	$(-\frac{1}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{9}{17}, \frac{1}{17}, \frac{3}{17}, -\frac{5}{17}, 0)$ $+ \frac{12}{17}e^3 \otimes e_8 + \frac{1}{17}\sqrt{129}e^5 \otimes e_9$	{123456, 125678, 3679, 4689}
941:18	$0, 0, 0, 0, 0, \frac{12}{3377}\sqrt{10127}e^{12}, \frac{2}{307}\sqrt{7410}e^{13}, \frac{6}{3377}\sqrt{44213}e^{14},$ $\frac{6}{3377}\sqrt{23959}e^{16} + \frac{38}{3377}\sqrt{1209}e^{34}$	$(\frac{485}{3377}, -\frac{997}{3377}, -\frac{350}{3377}, \frac{323}{3377}, \frac{147}{307}, -\frac{512}{3377}, \frac{135}{3377}, \frac{808}{3377}, -\frac{27}{3377})$ $+ \frac{2}{3377}\sqrt{997386}e^5 \otimes e_7 + \frac{8}{3377}\sqrt{81510}e^1 \otimes e_2$	{13459, 1789, 237, 2458}
941:18	$0, 0, 0, 0, 0, \frac{44}{3561}\sqrt{1115}e^{12}, \frac{22}{3561}\sqrt{4030}e^{13}, \frac{22}{3561}\sqrt{395}e^{14},$ $\frac{110}{3561}\sqrt{105}e^{16} + \frac{22}{3561}\sqrt{1765}e^{34}$	$(-\frac{65}{1187}, \frac{913}{3561}, -\frac{34}{1187}, \frac{625}{3561}, \frac{1405}{3561}, \frac{718}{3561}, \frac{99}{1187}, \frac{430}{3561}, \frac{523}{3561})$ $+ \frac{22}{3561}\sqrt{7270}e^2 \otimes e_7 + \frac{44}{3561}\sqrt{2195}e^1 \otimes e_5$	{12349, 1467, 2569, 357}
941:18	$0, 0, 0, 0, 0, \frac{2}{2665}\sqrt{189786}e^{12}, \frac{2}{2665}\sqrt{559263}e^{13}, \frac{4}{2665}\sqrt{46437}e^{14},$ $\frac{6}{2665}\sqrt{10095}e^{16} + \frac{2}{2665}\sqrt{28939}e^{34}$	$(\frac{119}{533}, -\frac{751}{2665}, \frac{497}{2665}, -\frac{58}{2665}, -\frac{849}{2665}, -\frac{12}{205}, \frac{84}{205}, \frac{537}{2665}, \frac{439}{2665})$ $+ \frac{2}{2665}\sqrt{747030}e^3 \otimes e_5 + \frac{2}{2665}\sqrt{870862}e^1 \otimes e_2$	{1389, 14579, 23478, 25}
941:18	$0, 0, 0, 0, 0, \frac{1}{296}\sqrt{33366}e^{12}, \frac{1}{296}\sqrt{23655}e^{13}, \frac{1}{296}\sqrt{23655}e^{14},$ $\frac{9}{296}\sqrt{498}e^{16} + \frac{3}{148}\sqrt{581}e^{34}$	$(\frac{53}{296}, -\frac{17}{296}, \frac{89}{592}, \frac{89}{592}, -\frac{49}{74}, \frac{9}{74}, \frac{195}{592}, \frac{195}{592}, \frac{89}{296})$ $+ \frac{3}{148}\sqrt{3403}e^1 \otimes e_5$	{12349, 12789, 1368, 23456789, 2569, 357}
941:18	$0, 0, 0, 0, 0, \frac{4}{55}\sqrt{35}e^{12}, \frac{2}{55}\sqrt{770}e^{13}, \frac{2}{55}\sqrt{35}e^{14},$ $\frac{2}{55}\sqrt{105}e^{16} + \frac{2}{55}\sqrt{105}e^{34}$	$(-\frac{1}{11}, \frac{13}{55}, \frac{2}{55}, \frac{13}{55}, 1, \frac{8}{55}, -\frac{3}{11}, \frac{8}{55}, \frac{3}{55})$ $+ \frac{2}{55}\sqrt{1610}e^5 \otimes e_7$	{12345689, 12679, 135, 1478, 23479, 2589, 3678, 456}
941:18	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{3}e^{13}, \frac{1}{3}\sqrt{3}e^{14},$ $\frac{1}{3}\sqrt{6}e^{16} + \frac{1}{3}\sqrt{6}e^{34}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_9$	{12379, 1345678, 156, 23689, 345, 578}
941:18	$0, 0, 0, 0, 0, \frac{8}{2449}\sqrt{15295}e^{12}, \frac{2}{2449}\sqrt{182735}e^{13}, \frac{2}{2449}\sqrt{162610}e^{14},$ $\frac{70}{2449}\sqrt{115}e^{16} + \frac{2}{2449}\sqrt{305095}e^{34}$	$(-\frac{275}{2449}, \frac{1037}{2449}, \frac{785}{2449}, -\frac{298}{2449}, -\frac{825}{2449}, \frac{762}{2449}, \frac{510}{2449}, -\frac{573}{2449}, \frac{487}{2449})$ $+ \frac{46}{2449}\sqrt{1610}e^2 \otimes e_8 + \frac{4}{2449}\sqrt{222985}e^3 \otimes e_5$	{1234, 13689, 256, 4589}
941:18	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{3}e^{12}, \frac{1}{17}\sqrt{21}e^{13}, \frac{1}{17}\sqrt{21}e^{14},$ $\frac{2}{17}\sqrt{21}e^{16} + \frac{2}{17}\sqrt{3}e^{34}$	$(\frac{3}{17}, -\frac{6}{17}, 0, 0, \frac{9}{17}, -\frac{3}{17}, \frac{3}{17}, \frac{3}{17}, 0)$ $+ \frac{12}{17}e^1 \otimes e_2 + \frac{1}{17}\sqrt{129}e^5 \otimes e_9$	{1389, 234578, 25}
941:18	$0, 0, 0, 0, 0, \frac{1}{252}\sqrt{2726}e^{12}, \frac{1}{252}\sqrt{4495}e^{13}, \frac{1}{252}\sqrt{4495}e^{14},$ $\frac{1}{252}\sqrt{3770}e^{16} + \frac{1}{42}\sqrt{87}e^{34}$	$(-\frac{29}{252}, \frac{61}{252}, \frac{1}{168}, \frac{1}{168}, \frac{1}{18}, \frac{8}{63}, -\frac{55}{504}, -\frac{55}{504}, \frac{1}{84})$ $+ \frac{1}{252}\sqrt{6902}e^3 \otimes e_8 - \frac{1}{252}\sqrt{6902}e^4 \otimes e_7$	{134, 1345, 1578, 178, 23579, 2379}
941:18	$0, 0, 0, 0, 0, \frac{1}{252}\sqrt{2726}e^{12}, \frac{1}{252}\sqrt{4495}e^{13}, \frac{1}{252}\sqrt{4495}e^{14},$ $\frac{1}{252}\sqrt{3770}e^{16} + \frac{1}{42}\sqrt{87}e^{34}$	$(-\frac{29}{252}, \frac{61}{252}, \frac{1}{168}, \frac{1}{168}, \frac{1}{18}, \frac{8}{63}, -\frac{55}{504}, -\frac{55}{504}, \frac{1}{84})$ $+ \frac{1}{252}\sqrt{6902}e^3 \otimes e_8 + \frac{1}{252}\sqrt{6902}e^4 \otimes e_7$	{134, 1345, 1578, 178, 23579, 2379}
941:18	$0, 0, 0, 0, 0, \frac{1}{280}\sqrt{20046}e^{12}, \frac{1}{280}\sqrt{40863}e^{13}, \frac{1}{280}\sqrt{40863}e^{14},$ $\frac{1}{140}\sqrt{7710}e^{16} + \frac{1}{280}\sqrt{30326}e^{34}$	$(\frac{5}{14}, -\frac{157}{280}, \frac{43}{560}, \frac{43}{560}, \frac{3}{20}, -\frac{57}{280}, \frac{243}{560}, \frac{243}{560}, \frac{43}{280})$ $+ \frac{1}{140}\sqrt{30583}e^1 \otimes e_2$	{13459, 1349, 15789, 1789, 2357, 237}
941:18	$0, 0, 0, 0, 0, \frac{12}{3377}\sqrt{10127}e^{12}, \frac{2}{307}\sqrt{7410}e^{13}, \frac{6}{3377}\sqrt{44213}e^{14},$ $\frac{38}{3377}\sqrt{1209}e^{16} + \frac{6}{3377}\sqrt{23959}e^{34}$	$(-\frac{395}{3377}, \frac{763}{3377}, \frac{530}{3377}, -\frac{557}{3377}, \frac{147}{307}, \frac{368}{3377}, \frac{135}{3377}, -\frac{952}{3377}, -\frac{27}{3377})$ $+ \frac{2}{3377}\sqrt{997386}e^5 \otimes e_7 + \frac{8}{3377}\sqrt{81510}e^3 \otimes e_8$	{1345, 178, 2379, 24589}
941:18	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{598}e^{12}, \frac{5}{281}\sqrt{2093}e^{13}, \frac{1}{281}\sqrt{18239}e^{14},$ $\frac{13}{281}\sqrt{115}e^{16} + \frac{3}{281}\sqrt{5681}e^{34}$	$(\frac{49}{562}, \frac{49}{281}, \frac{108}{281}, -\frac{10}{281}, -\frac{191}{281}, \frac{147}{562}, \frac{265}{562}, \frac{29}{562}, \frac{98}{281})$ $+ \frac{2}{281}\sqrt{35282}e^3 \otimes e_5$	{12369, 12456789, 1348, 157, 23789, 2459, 3467, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:19	$0, 0, 0, 0, 0, \frac{1}{257}\sqrt{23790e^{12}}, \frac{1}{257}\sqrt{31110e^{13}}, \frac{1}{257}\sqrt{8418e^{14}},$ $\frac{3}{257}\sqrt{4026e^{26}} + \frac{4}{257}\sqrt{915e^{34}}$	$(-\frac{86}{257}, \frac{93}{257}, -\frac{4}{257}, \frac{104}{257}, \frac{41}{257}, \frac{7}{257}, -\frac{90}{257}, \frac{18}{257}, \frac{100}{257})$ $+\frac{36}{257}\sqrt{61e^2} \otimes e_7$	{1234589, 123489, 15679, 1679, 2456, 246, 3578, 378}
941:19	$0, 0, 0, 0, 0, \frac{1}{1229}\sqrt{256802e^{12}}, \frac{1}{1229}\sqrt{1500590e^{13}}, \frac{1}{1229}\sqrt{71162e^{14}},$ $\frac{1}{1229}\sqrt{343434e^{26}} + \frac{4}{1229}\sqrt{23205e^{34}}$	$(-\frac{166}{1229}, \frac{185}{1229}, -\frac{152}{1229}, \frac{356}{1229}, 1, \frac{19}{1229}, -\frac{318}{1229}, \frac{190}{1229}, \frac{204}{1229})$ $+\frac{4}{1229}\sqrt{196469e^5} \otimes e_7$	{12356, 124678, 135, 1478, 23479, 2589, 34679, 5689}
941:19	$0, 0, 0, 0, 0, \frac{1}{64}\sqrt{2806e^{12}}, \frac{1}{64}\sqrt{305e^{13}}, \frac{1}{64}\sqrt{305e^{14}},$ $\frac{1}{32}\sqrt{671e^{26}} + \frac{1}{32}\sqrt{61e^{34}}$	$(-\frac{7}{64}, \frac{19}{64}, \frac{31}{128}, \frac{31}{128}, -\frac{21}{32}, \frac{3}{16}, \frac{17}{128}, \frac{17}{128}, \frac{31}{64})$ $+\frac{1}{64}\sqrt{6466e^2} \otimes e_5$	{1234789, 129, 13456789, 1569, 2368, 358}
941:19	$0, 0, 0, 0, 0, \frac{56}{971}\sqrt{30e^{12}}, \frac{12}{971}\sqrt{910e^{13}}, \frac{4}{971}\sqrt{1358e^{14}},$ $\frac{4}{971}\sqrt{6986e^{26}} + \frac{8}{971}\sqrt{1155e^{34}}$	$(-\frac{68}{971}, \frac{124}{971}, -\frac{32}{971}, \frac{212}{971}, -\frac{292}{971}, \frac{56}{971}, -\frac{100}{971}, \frac{144}{971}, \frac{180}{971})$ $+\frac{16}{971}\sqrt{854e^2} \otimes e_7 + \frac{20}{971}\sqrt{434e^1} \otimes e_5$	{12349, 16789, 24568, 357}
941:19	$0, 0, 0, 0, 0, \frac{37}{1337}\sqrt{190e^{12}}, \frac{19}{1337}\sqrt{1110e^{13}}, \frac{1}{1337}\sqrt{136382e^{14}},$ $\frac{1}{1337}\sqrt{532874e^{26}} + \frac{20}{1337}\sqrt{703e^{34}}$	$(-\frac{58}{191}, \frac{373}{1337}, \frac{76}{1337}, \frac{264}{1337}, \frac{561}{1337}, -\frac{33}{1337}, -\frac{330}{1337}, -\frac{142}{1337}, \frac{340}{1337})$ $+\frac{20}{1337}\sqrt{1406e^5} \otimes e_8 + \frac{4}{1337}\sqrt{68191e^2} \otimes e_7$	{123459, 16789, 2468, 357}
941:19	$0, 0, 0, 0, 0, \frac{40}{793}\sqrt{19e^{12}}, \frac{20}{793}\sqrt{149e^{13}}, \frac{20}{793}\sqrt{2e^{14}},$ $\frac{20}{793}\sqrt{179e^{26}} + \frac{20}{793}\sqrt{55e^{34}}$	$(-\frac{150}{793}, \frac{120}{793}, \frac{70}{793}, \frac{20}{793}, \frac{290}{793}, -\frac{30}{793}, -\frac{80}{793}, -\frac{10}{793}, \frac{90}{793})$ $-\frac{20}{793}\sqrt{201e^3} \otimes e_8 + \frac{20}{793}\sqrt{217e^5} \otimes e_9 + \frac{20}{793}\sqrt{302e^2} \otimes e_7$	{1239, 146789, 2568, 3457}
941:19	$0, 0, 0, 0, 0, \frac{40}{793}\sqrt{19e^{12}}, \frac{20}{793}\sqrt{149e^{13}}, \frac{20}{793}\sqrt{2e^{14}},$ $\frac{20}{793}\sqrt{179e^{26}} + \frac{20}{793}\sqrt{55e^{34}}$	$(-\frac{150}{793}, \frac{120}{793}, \frac{70}{793}, \frac{20}{793}, \frac{290}{793}, -\frac{30}{793}, -\frac{80}{793}, -\frac{10}{793}, \frac{90}{793})$ $+\frac{20}{793}\sqrt{201e^3} \otimes e_8 + \frac{20}{793}\sqrt{217e^5} \otimes e_9 + \frac{20}{793}\sqrt{302e^2} \otimes e_7$	{1239, 146789, 2568, 3457}
941:19	$0, 0, 0, 0, 0, \frac{8}{2811}\sqrt{10545e^{12}}, \frac{8}{2811}\sqrt{30710e^{13}}, \frac{8}{2811}\sqrt{3737e^{14}},$ $\frac{8}{2811}\sqrt{22829e^{26}} + \frac{8}{2811}\sqrt{2405e^{34}}$	$(-\frac{296}{937}, \frac{884}{2811}, \frac{196}{937}, \frac{292}{2811}, \frac{328}{2811}, -\frac{4}{2811}, -\frac{100}{937}, -\frac{596}{2811}, \frac{880}{2811})$ $+\frac{40}{2811}\sqrt{1517e^3} \otimes e_8 + \frac{72}{937}\sqrt{74e^2} \otimes e_7$	{123459, 12349, 156789, 16789, 24568, 2468, 357, 37}
941:19	$0, 0, 0, 0, 0, \frac{8}{2811}\sqrt{10545e^{12}}, \frac{8}{2811}\sqrt{30710e^{13}}, \frac{8}{2811}\sqrt{3737e^{14}},$ $\frac{8}{2811}\sqrt{22829e^{26}} + \frac{8}{2811}\sqrt{2405e^{34}}$	$(-\frac{296}{937}, \frac{884}{2811}, \frac{196}{937}, \frac{292}{2811}, \frac{328}{2811}, -\frac{4}{2811}, -\frac{100}{937}, -\frac{596}{2811}, \frac{880}{2811})$ $-\frac{40}{2811}\sqrt{1517e^3} \otimes e_8 + \frac{72}{937}\sqrt{74e^2} \otimes e_7$	{123459, 12349, 156789, 16789, 24568, 2468, 357, 37}
941:19	$0, 0, 0, 0, 0, \frac{1}{841}\sqrt{97654e^{12}}, \frac{1}{841}\sqrt{92630e^{13}}, \frac{1}{841}\sqrt{47414e^{14}},$ $\frac{10}{841}\sqrt{1727e^{26}} + \frac{8}{841}\sqrt{157e^{34}}$	$(-\frac{135}{841}, \frac{108}{841}, -\frac{71}{841}, \frac{152}{841}, \frac{395}{841}, -\frac{27}{841}, -\frac{206}{841}, \frac{17}{841}, \frac{81}{841})$ $+\frac{11}{841}\sqrt{1570e^5} \otimes e_9 + \frac{2}{841}\sqrt{70022e^2} \otimes e_7$	{1239, 146789, 2568, 3457}
941:19	$0, 0, 0, 0, 0, \frac{8}{81}\sqrt{35e^{12}}, \frac{4}{81}\sqrt{195e^{13}}, \frac{4}{81}\sqrt{195e^{14}},$ $\frac{4}{81}\sqrt{85e^{26}} + \frac{4}{81}\sqrt{110e^{34}}$	$(\frac{28}{81}, -\frac{8}{81}, \frac{2}{27}, \frac{2}{27}, -\frac{52}{81}, \frac{20}{81}, \frac{34}{81}, \frac{34}{81}, \frac{4}{27})$ $+\frac{4}{81}\sqrt{665e^1} \otimes e_5$	{12349, 12789, 13469, 16789, 23567, 357}
941:19	$0, 0, 0, 0, 0, \frac{1}{112}\sqrt{285e^{12}}, \frac{1}{56}\sqrt{285e^{13}}, \frac{1}{56}\sqrt{285e^{14}},$ $\frac{1}{112}\sqrt{1254e^{26}} + \frac{9}{112}\sqrt{38e^{34}}$	$(-\frac{5}{112}, \frac{1}{28}, \frac{55}{224}, -\frac{7}{32}, \frac{15}{28}, -\frac{1}{112}, \frac{45}{224}, -\frac{59}{224}, \frac{3}{112})$ $+\frac{19}{112}\sqrt{15e^5} \otimes e_9 - \frac{1}{56}\sqrt{1482e^3} \otimes e_8$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:19	$0, 0, 0, 0, 0, \frac{1}{112}\sqrt{285e^{12}}, \frac{1}{56}\sqrt{285e^{13}}, \frac{1}{56}\sqrt{285e^{14}},$ $\frac{1}{112}\sqrt{1254e^{26}} + \frac{9}{112}\sqrt{38e^{34}}$	$(-\frac{5}{112}, \frac{1}{28}, \frac{55}{224}, -\frac{7}{32}, \frac{15}{28}, -\frac{1}{112}, \frac{45}{224}, -\frac{59}{224}, \frac{3}{112})$ $+\frac{19}{112}\sqrt{15e^5} \otimes e_9 + \frac{1}{56}\sqrt{1482e^3} \otimes e_8$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:19	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{141e^{12}}, \frac{72}{3851}\sqrt{915e^{13}}, \frac{108}{3851}\sqrt{143e^{14}},$ $\frac{36}{3851}\sqrt{195e^{26}} + \frac{36}{3851}\sqrt{555e^{34}}$	$(-\frac{846}{3851}, \frac{738}{3851}, \frac{864}{3851}, -\frac{234}{3851}, \frac{1962}{3851}, -\frac{108}{3851}, \frac{18}{3851}, -\frac{1080}{3851}, \frac{630}{3851})$ $+\frac{36}{3851}\sqrt{4746e^5} \otimes e_7 - \frac{36}{3851}\sqrt{5667e^3} \otimes e_8$	{123456, 12678, 1345, 178, 2379, 24589, 3679, 45689}
941:19	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{141e^{12}}, \frac{72}{3851}\sqrt{915e^{13}}, \frac{108}{3851}\sqrt{143e^{14}},$ $\frac{36}{3851}\sqrt{195e^{26}} + \frac{36}{3851}\sqrt{555e^{34}}$	$(-\frac{846}{3851}, \frac{738}{3851}, \frac{864}{3851}, -\frac{234}{3851}, \frac{1962}{3851}, -\frac{108}{3851}, \frac{18}{3851}, -\frac{1080}{3851}, \frac{630}{3851})$ $+\frac{36}{3851}\sqrt{4746e^5} \otimes e_7 + \frac{36}{3851}\sqrt{5667e^3} \otimes e_8$	{123456, 12678, 1345, 178, 2379, 24589, 3679, 45689}
941:19	$0, 0, 0, 0, 0, \frac{1}{80}\sqrt{1335e^{12}}, \frac{1}{40}\sqrt{178e^{13}}, \frac{1}{40}\sqrt{178e^{14}},$ $\frac{1}{80}\sqrt{3382e^{26}} + \frac{1}{80}\sqrt{4094e^{34}}$	$(\frac{3}{16}, -\frac{3}{20}, -\frac{9}{160}, -\frac{9}{160}, 1, \frac{3}{80}, \frac{21}{160}, \frac{21}{160}, -\frac{9}{80})$ $+\frac{1}{80}\sqrt{11659e^5} \otimes e_9$	{12379, 13679, 23456, 25678, 345, 578}
941:19	$0, 0, 0, 0, 0, \frac{1}{1237}\sqrt{35022e^{12}}, \frac{1}{1237}\sqrt{918654e^{13}}, \frac{5}{1237}\sqrt{18858e^{14}},$ $\frac{3}{1237}\sqrt{17062e^{26}} + \frac{4}{1237}\sqrt{63309e^{34}}$	$(\frac{26}{1237}, \frac{249}{1237}, \frac{520}{1237}, \frac{4}{1237}, -\frac{827}{1237}, \frac{275}{1237}, \frac{546}{1237}, \frac{30}{1237}, \frac{524}{1237})$ $+\frac{12}{1237}\sqrt{19307e^3} \otimes e_5$	{12348, 1257, 13468, 1567, 236789, 24569, 3789, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:19	$0, 0, 0, 0, 0, \frac{1}{519} \sqrt{30954}e^{12}, \frac{1}{173} \sqrt{7370}e^{13}, \frac{67}{519} \sqrt{6}e^{14},$ $\frac{1}{173} \sqrt{4690}e^{26} + \frac{2}{519} \sqrt{1407}e^{34}$	$(-\frac{40}{173}, \frac{49}{173}, \frac{22}{173}, \frac{36}{173}, -\frac{45}{173}, \frac{9}{173}, -\frac{18}{173}, -\frac{4}{173}, \frac{58}{173})$ $+ \frac{2}{519} \sqrt{19095}e^3 \otimes e_5 + \frac{2}{519} \sqrt{27537}e^2 \otimes e_7$	{1239, 1456789, 2568, 347}
941:19	$0, 0, 0, 0, 0, \frac{25}{144} e^{12}, \frac{5}{36} \sqrt{3}e^{13}, \frac{5}{36} \sqrt{3}e^{14},$ $\frac{5}{144} \sqrt{6}e^{26} + \frac{5}{144} \sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+ \frac{5}{144} \sqrt{59}e^5 \otimes e_9 + \frac{5}{72} \sqrt{26}e^3 \otimes e_8 + \frac{5}{72} \sqrt{26}e^4 \otimes e_7$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:19	$0, 0, 0, 0, 0, \frac{25}{144} e^{12}, \frac{5}{36} \sqrt{3}e^{13}, \frac{5}{36} \sqrt{3}e^{14},$ $\frac{5}{144} \sqrt{6}e^{26} + \frac{5}{144} \sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+ \frac{5}{144} \sqrt{59}e^5 \otimes e_9 - \frac{5}{72} \sqrt{26}e^3 \otimes e_8 + \frac{5}{72} \sqrt{26}e^4 \otimes e_7$	{123456, 125678, 1345, 1578, 2379, 3679}
941:19	$0, 0, 0, 0, 0, \frac{25}{144} e^{12}, \frac{5}{36} \sqrt{3}e^{13}, \frac{5}{36} \sqrt{3}e^{14},$ $\frac{5}{144} \sqrt{6}e^{26} + \frac{5}{144} \sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+ \frac{5}{144} \sqrt{59}e^5 \otimes e_9 + \frac{5}{72} \sqrt{26}e^3 \otimes e_8 - \frac{5}{72} \sqrt{26}e^4 \otimes e_7$	{123456, 125678, 1345, 1578, 2379, 3679}
941:20	$0, 0, 0, 0, 0, \frac{4}{1133} \sqrt{3849}e^{12}, \frac{1}{1133} \sqrt{38490}e^{13}, \frac{1}{1133} \sqrt{736442}e^{24},$ $\frac{3}{1133} \sqrt{7698}e^{16} + \frac{4}{1133} \sqrt{47471}e^{34}$	$(\frac{266}{1133}, -\frac{63}{1133}, -\frac{81}{1133}, \frac{50}{103}, -\frac{733}{1133}, \frac{203}{1133}, \frac{185}{1133}, \frac{487}{1133}, \frac{469}{1133})$ $+ \frac{1}{1133} \sqrt{2394078}e^4 \otimes e_5$	{12356789, 12469, 13478, 15, 23589, 2479, 3468, 567}
941:20	$0, 0, 0, 0, 0, \frac{5}{96} \sqrt{214}e^{12}, \frac{1}{48} \sqrt{214}e^{13}, \frac{5}{96} \sqrt{214}e^{24},$ $\frac{1}{96} \sqrt{1819}e^{16} + \frac{1}{48} \sqrt{214}e^{34}$	$(-\frac{1}{8}, \frac{23}{48}, \frac{17}{64}, -\frac{7}{192}, -\frac{61}{96}, \frac{17}{64}, \frac{9}{64}, \frac{85}{192}, \frac{11}{48})$ $+ \frac{1}{96} \sqrt{16799}e^2 \otimes e_5$	{123479, 1289, 13567, 14568, 23469, 26789, 35, 4578}
941:20	$0, 0, 0, 0, 0, \frac{1}{278} \sqrt{23870}e^{12}, \frac{1}{278} \sqrt{24211}e^{13}, \frac{1}{139} \sqrt{20119}e^{24},$ $\frac{3}{139} \sqrt{341}e^{16} + \frac{1}{278} \sqrt{27962}e^{34}$	$(\frac{15}{139}, -\frac{69}{556}, \frac{27}{139}, -\frac{57}{556}, 1, -\frac{9}{556}, \frac{42}{139}, -\frac{63}{278}, \frac{51}{556})$ $+ \frac{3}{278} \sqrt{17391}e^5 \otimes e_8$	{12368, 124567, 13489, 1579, 2378, 245, 346789, 569}
941:20	$0, 0, 0, 0, 0, \frac{7}{360} \sqrt{46}e^{12}, \frac{1}{180} \sqrt{6279}e^{13}, \frac{1}{120} \sqrt{4186}e^{24},$ $\frac{1}{360} \sqrt{5957}e^{16} + \frac{1}{90} \sqrt{322}e^{34}$	$(-\frac{7}{180}, \frac{8}{45}, -\frac{37}{240}, \frac{61}{240}, -\frac{97}{360}, \frac{5}{36}, -\frac{139}{720}, \frac{311}{720}, \frac{1}{10})$ $+ \frac{1}{180} \sqrt{14973}e^4 \otimes e_7 + \frac{1}{360} \sqrt{43631}e^2 \otimes e_5$	{13458, 157, 23789, 249}
941:20	$0, 0, 0, 0, 0, \frac{16}{583} \sqrt{167}e^{12}, \frac{2}{583} \sqrt{27221}e^{13}, \frac{4}{583} \sqrt{9519}e^{24},$ $\frac{2}{583} \sqrt{32565}e^{16} + \frac{2}{583} \sqrt{27555}e^{34}$	$(\frac{161}{583}, -\frac{201}{583}, \frac{93}{583}, \frac{28}{583}, \frac{91}{583}, -\frac{40}{583}, \frac{254}{583}, -\frac{173}{583}, \frac{11}{53})$ $+ \frac{4}{583} \sqrt{20541}e^1 \otimes e_8$	{123459, 12349, 1356, 136, 25689, 2689, 458, 48}
941:20	$0, 0, 0, 0, 0, \frac{14}{2929} \sqrt{793}e^{12}, \frac{448}{2929} \sqrt{13}e^{13}, \frac{14}{2929} \sqrt{7085}e^{24},$ $\frac{364}{2929} \sqrt{5}e^{16} + \frac{28}{2929} \sqrt{182}e^{34}$	$(-\frac{525}{2929}, \frac{1146}{2929}, \frac{397}{2929}, -\frac{301}{2929}, -\frac{877}{2929}, \frac{621}{2929}, -\frac{128}{2929}, \frac{845}{2929}, \frac{96}{2929})$ $+ \frac{14}{2929} \sqrt{15301}e^3 \otimes e_5 + \frac{308}{2929} \sqrt{39}e^2 \otimes e_7$	{1234, 1456789, 2568, 379}
941:20	$0, 0, 0, 0, 0, \frac{5}{46} \sqrt{6}e^{12}, \frac{15}{46} \sqrt{6}e^{13}, \frac{5}{46} \sqrt{6}e^{24},$ $\frac{5}{46} \sqrt{26}e^{16} + \frac{15}{46} \sqrt{6}e^{34}$	$(\frac{1}{23}, \frac{21}{92}, \frac{19}{46}, -\frac{9}{92}, -\frac{31}{46}, \frac{25}{92}, \frac{21}{46}, \frac{3}{23}, \frac{29}{92})$ $+ \frac{5}{46} \sqrt{154}e^3 \otimes e_5$	{12369, 12456789, 134, 1578, 2379, 24589, 3467, 568}
941:20	$0, 0, 0, 0, 0, \frac{3}{4049} \sqrt{670}e^{12}, \frac{69}{4049} \sqrt{6}e^{13}, \frac{3}{4049} \sqrt{3606}e^{24},$ $\frac{108}{4049} e^{16} + \frac{3}{4049} \sqrt{2698}e^{34}$	$(-\frac{42}{4049}, \frac{66}{4049}, \frac{99}{4049}, -\frac{117}{4049}, -\frac{9}{4049}, \frac{24}{4049}, \frac{57}{4049}, -\frac{51}{4049}, -\frac{18}{4049})$ $+ \frac{3}{4049} \sqrt{3734}e^2 \otimes e_7 + \frac{3}{4049} \sqrt{4382}e^1 \otimes e_8 + \frac{6}{4049} \sqrt{173}e^5 \otimes e_9$	{123459, 25689}
941:20	$0, 0, 0, 0, 0, \frac{24}{2305} \sqrt{866}e^{12}, \frac{2}{2305} \sqrt{100889}e^{13}, \frac{8}{2305} \sqrt{12990}e^{24},$ $\frac{2}{2305} \sqrt{320853}e^{16} + \frac{2}{2305} \sqrt{65383}e^{34}$	$(\frac{63}{461}, -\frac{99}{461}, \frac{191}{2305}, -\frac{56}{2305}, \frac{1001}{2305}, -\frac{36}{461}, \frac{506}{2305}, -\frac{551}{2305}, \frac{27}{461})$ $+ \frac{4}{2305} \sqrt{141158}e^1 \otimes e_8 + \frac{4}{2305} \sqrt{78806}e^5 \otimes e_9$	{12349, 1356, 2689, 458}
941:20	$0, 0, 0, 0, 0, \frac{48}{2789} \sqrt{58}e^{12}, \frac{6}{2789} \sqrt{28101}e^{13}, \frac{12}{2789} \sqrt{7859}e^{24},$ $\frac{6}{2789} \sqrt{10005}e^{16} + \frac{6}{2789} \sqrt{9715}e^{34}$	$(\frac{483}{2789}, -\frac{683}{2789}, -\frac{361}{2789}, \frac{644}{2789}, \frac{273}{2789}, -\frac{200}{2789}, \frac{122}{2789}, -\frac{39}{2789}, \frac{283}{2789})$ $+ \frac{12}{2789} \sqrt{10121}e^1 \otimes e_8 + \frac{24}{2789} \sqrt{2030}e^4 \otimes e_7$	{1579, 179, 23578, 2378}
941:20	$0, 0, 0, 0, 0, \frac{12}{3035} \sqrt{1577}e^{12}, \frac{12}{3035} \sqrt{11894}e^{13}, \frac{12}{3035} \sqrt{18715}e^{24},$ $\frac{84}{3035} \sqrt{38}e^{16} + \frac{12}{3035} \sqrt{57}e^{34}$	$(-\frac{282}{3035}, \frac{792}{3035}, -\frac{294}{3035}, \frac{522}{3035}, -\frac{846}{3035}, \frac{102}{607}, -\frac{576}{3035}, \frac{1314}{3035}, \frac{228}{3035})$ $+ \frac{12}{3035} \sqrt{29089}e^2 \otimes e_7 + \frac{12}{607} \sqrt{893}e^4 \otimes e_5$	{12358, 15679, 246, 34789}
941:20	$0, 0, 0, 0, 0, \frac{28}{3537} \sqrt{1023}e^{12}, \frac{154}{3537} \sqrt{31}e^{13}, \frac{2}{3537} \sqrt{420794}e^{24},$ $\frac{14}{3537} \sqrt{5797}e^{16} + \frac{2}{3537} \sqrt{256773}e^{34}$	$(\frac{325}{3537}, -\frac{223}{3537}, \frac{187}{1179}, -\frac{134}{3537}, -\frac{905}{3537}, \frac{34}{1179}, \frac{886}{3537}, -\frac{119}{1179}, \frac{427}{3537})$ $+ \frac{2}{3537} \sqrt{660858}e^1 \otimes e_8 + \frac{4}{3537} \sqrt{106733}e^2 \otimes e_5$	{12349, 1356, 2689, 458}
941:20	$0, 0, 0, 0, 0, \frac{5}{141} \sqrt{78}e^{12}, \frac{4}{141} \sqrt{195}e^{13}, \frac{26}{141} \sqrt{3}e^{24},$ $\frac{2}{141} \sqrt{390}e^{16} + \frac{4}{47} \sqrt{13}e^{34}$	$(-\frac{3}{47}, \frac{28}{141}, -\frac{2}{141}, \frac{4}{47}, -\frac{16}{47}, \frac{19}{141}, -\frac{11}{141}, \frac{40}{141}, \frac{10}{141})$ $+ \frac{13}{141} \sqrt{30}e^2 \otimes e_7 + \frac{2}{141} \sqrt{1209}e^1 \otimes e_5$	{12349, 14678, 25689, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:20	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{66e^{12}}, \frac{6}{149}\sqrt{165e^{13}}, \frac{4}{149}\sqrt{231e^{24}},$ $\frac{22}{149}\sqrt{3e^{16}} + \frac{2}{149}\sqrt{33e^{34}}$	$(\frac{21}{149}, -\frac{13}{149}, -\frac{29}{149}, \frac{58}{149}, -\frac{45}{149}, \frac{8}{149}, -\frac{8}{149}, \frac{45}{149}, \frac{29}{149})$ $+ \frac{2}{149}\sqrt{2046e^1} \otimes e_5 + \frac{2}{149}\sqrt{2310e^4} \otimes e_7$	{13468, 167, 2356789, 24569}
941:20	$0, 0, 0, 0, 0, \frac{1}{1145}\sqrt{196142e^{12}}, \frac{2}{1145}\sqrt{204881e^{13}}, \frac{2}{1145}\sqrt{203910e^{24}},$ $\frac{2}{1145}\sqrt{2913e^{16}} + \frac{12}{1145}\sqrt{2913e^{34}}$	$(-\frac{329}{1145}, \frac{624}{1145}, -\frac{18}{1145}, -\frac{16}{1145}, \frac{188}{1145}, \frac{59}{229}, -\frac{347}{1145}, \frac{608}{1145}, -\frac{34}{1145})$ $+ \frac{1}{1145}\sqrt{1858494e^2} \otimes e_7$	{12358, 1238, 15679, 1679, 2456, 246, 345789, 34789}
941:20	$0, 0, 0, 0, 0, \frac{2}{559}\sqrt{25878e^{12}}, \frac{30}{559}\sqrt{227e^{13}}, \frac{2}{559}\sqrt{45854e^{24}},$ $\frac{2}{559}\sqrt{15663e^{16}} + \frac{2}{559}\sqrt{15209e^{34}}$	$(\frac{1}{13}, -\frac{3}{559}, -\frac{207}{559}, \frac{290}{559}, \frac{85}{559}, \frac{40}{559}, -\frac{164}{559}, \frac{287}{559}, \frac{83}{559})$ $+ \frac{2}{559}\sqrt{107598e^4} \otimes e_7$	{13458, 1348, 157, 17, 235789, 23789, 2459, 249}
941:20	$0, 0, 0, 0, 0, \frac{156}{2077}e^{12}, \frac{26}{2077}\sqrt{551e^{13}}, \frac{26}{2077}\sqrt{654e^{24}},$ $\frac{26}{2077}\sqrt{309e^{16}} + \frac{26}{2077}\sqrt{115e^{34}}$	$(\frac{273}{2077}, -\frac{429}{2077}, -\frac{247}{2077}, \frac{364}{2077}, \frac{455}{2077}, -\frac{156}{2077}, \frac{26}{2077}, -\frac{65}{2077}, \frac{117}{2077})$ $+ \frac{26}{2077}\sqrt{266e^5} \otimes e_9 + \frac{26}{2077}\sqrt{714e^4} \otimes e_7 + \frac{52}{2077}\sqrt{227e^1} \otimes e_8$	{179, 23578}
941:20	$0, 0, 0, 0, 0, \frac{8}{3071}\sqrt{570e^{12}}, \frac{8}{3071}\sqrt{30666e^{13}}, \frac{4}{3071}\sqrt{107274e^{24}},$ $\frac{76}{3071}\sqrt{186e^{16}} + \frac{8}{3071}\sqrt{21831e^{34}}$	$(\frac{392}{3071}, -\frac{653}{3071}, -\frac{2}{3071}, \frac{133}{3071}, \frac{1302}{3071}, -\frac{261}{3071}, \frac{390}{3071}, -\frac{520}{3071}, \frac{131}{3071})$ $+ \frac{4}{3071}\sqrt{201666e^1} \otimes e_8 + \frac{8}{3071}\sqrt{28329e^5} \otimes e_7$	{123459, 1356, 25689, 458}
941:20	$0, 0, 0, 0, 0, \frac{56}{3419}\sqrt{123e^{12}}, \frac{8}{3419}\sqrt{29274e^{13}}, \frac{8}{3419}\sqrt{27069e^{24}},$ $\frac{168}{3419}\sqrt{15e^{16}} + \frac{56}{3419}\sqrt{69e^{34}}$	$(-\frac{504}{3419}, \frac{820}{3419}, \frac{652}{3419}, -\frac{840}{3419}, \frac{288}{3419}, \frac{316}{3419}, \frac{148}{3419}, -\frac{20}{3419}, -\frac{188}{3419})$ $+ \frac{8}{3419}\sqrt{32214e^2} \otimes e_7 - \frac{8}{3419}\sqrt{33537e^3} \otimes e_8$	{1234569, 123469, 14578, 1478, 2589, 289, 3567, 367}
941:20	$0, 0, 0, 0, 0, \frac{56}{3419}\sqrt{123e^{12}}, \frac{8}{3419}\sqrt{29274e^{13}}, \frac{8}{3419}\sqrt{27069e^{24}},$ $\frac{168}{3419}\sqrt{15e^{16}} + \frac{56}{3419}\sqrt{69e^{34}}$	$(-\frac{504}{3419}, \frac{820}{3419}, \frac{652}{3419}, -\frac{840}{3419}, \frac{288}{3419}, \frac{316}{3419}, \frac{148}{3419}, -\frac{20}{3419}, -\frac{188}{3419})$ $+ \frac{8}{3419}\sqrt{32214e^2} \otimes e_7 + \frac{8}{3419}\sqrt{33537e^3} \otimes e_8$	{1234569, 123469, 14578, 1478, 2589, 289, 3567, 367}
941:20	$0, 0, 0, 0, 0, \frac{14}{587}\sqrt{102e^{12}}, \frac{14}{587}\sqrt{237e^{13}}, \frac{28}{587}\sqrt{66e^{24}},$ $\frac{126}{587}e^{16} + \frac{14}{587}\sqrt{393e^{34}}$	$(-\frac{7}{587}, \frac{11}{587}, -\frac{145}{587}, \frac{142}{587}, \frac{291}{587}, \frac{4}{587}, -\frac{152}{587}, \frac{153}{587}, -\frac{3}{587})$ $+ \frac{14}{587}\sqrt{678e^5} \otimes e_9 + \frac{28}{587}\sqrt{222e^4} \otimes e_7$	{123456, 125678, 3679, 4689}
941:20	$0, 0, 0, 0, 0, \frac{4}{3577}\sqrt{64894e^{12}}, \frac{2}{3577}\sqrt{611009e^{13}}, \frac{16}{3577}\sqrt{4570e^{24}},$ $\frac{2}{3577}\sqrt{273743e^{16}} + \frac{2}{3577}\sqrt{334981e^{34}}$	$(\frac{103}{3577}, \frac{201}{3577}, -\frac{305}{3577}, \frac{712}{3577}, -\frac{1219}{3577}, \frac{304}{3577}, -\frac{202}{3577}, \frac{913}{3577}, \frac{407}{3577})$ $+ \frac{4}{3577}\sqrt{170461e^3} \otimes e_5 + \frac{4}{3577}\sqrt{207021e^4} \otimes e_7$	{1348, 157, 23789, 2459}
941:20	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210e^{12}}, \frac{18}{139}\sqrt{14e^{13}}, \frac{2}{139}\sqrt{966e^{24}},$ $\frac{2}{139}\sqrt{658e^{16}} + \frac{6}{139}\sqrt{42e^{34}}$	$(\frac{26}{139}, -\frac{51}{278}, \frac{31}{139}, -\frac{9}{278}, -\frac{25}{139}, \frac{1}{278}, \frac{57}{139}, -\frac{30}{139}, \frac{53}{278})$ $+ \frac{2}{139}\sqrt{1162e^3} \otimes e_5 + \frac{36}{139}\sqrt{7e^1} \otimes e_8$	{12349, 136, 25689, 458}
941:20	$0, 0, 0, 0, 0, \frac{54}{3425}\sqrt{598e^{12}}, \frac{18}{3425}\sqrt{7843e^{13}}, \frac{6}{3425}\sqrt{95358e^{24}},$ $\frac{6}{3425}\sqrt{16215e^{16}} + \frac{6}{3425}\sqrt{1311e^{34}}$	$(\frac{213}{3425}, -\frac{381}{3425}, -\frac{141}{685}, \frac{30}{137}, \frac{1611}{3425}, -\frac{168}{3425}, -\frac{492}{3425}, \frac{369}{3425}, \frac{9}{685})$ $+ \frac{24}{3425}\sqrt{5658e^5} \otimes e_8 + \frac{6}{3425}\sqrt{125166e^4} \otimes e_7$	{1234569, 126789, 3567, 468}
941:20	$0, 0, 0, 0, 0, \frac{13}{1897}\sqrt{38e^{12}}, \frac{16}{1897}\sqrt{95e^{13}}, \frac{10}{1897}\sqrt{285e^{24}},$ $\frac{6}{1897}\sqrt{3135e^{16}} + \frac{6}{1897}\sqrt{551e^{34}}$	$(-\frac{31}{1897}, \frac{24}{1897}, \frac{36}{1897}, -\frac{74}{1897}, \frac{22}{271}, -\frac{1}{271}, \frac{5}{1897}, -\frac{50}{1897}, -\frac{38}{1897})$ $+ \frac{1}{1897}\sqrt{29982e^2} \otimes e_7 + \frac{6}{1897}\sqrt{1007e^1} \otimes e_8$	{123459, 12349, 25689, 2689}
941:20	$0, 0, 0, 0, 0, \frac{1}{1091}\sqrt{400214e^{12}}, \frac{5}{1091}\sqrt{51034e^{13}}, \frac{2}{1091}\sqrt{103411e^{24}},$ $\frac{6}{1091}\sqrt{4029e^{16}} + \frac{1}{1091}\sqrt{351866e^{34}}$	$(-\frac{90}{1091}, \frac{177}{1091}, -\frac{162}{1091}, \frac{159}{1091}, 1, \frac{87}{1091}, -\frac{252}{1091}, \frac{336}{1091}, -\frac{3}{1091})$ $+ \frac{3}{1091}\sqrt{271286e^5} \otimes e_7$	{1234569, 126789, 135, 1478, 23479, 2589, 367, 4568}
941:20	$0, 0, 0, 0, 0, \frac{281}{281}\sqrt{6670e^{12}}, \frac{2}{281}\sqrt{8555e^{13}}, \frac{8}{281}\sqrt{290e^{24}},$ $\frac{18}{281}\sqrt{145e^{16}} + \frac{2}{281}\sqrt{14065e^{34}}$	$(-\frac{21}{281}, \frac{33}{281}, \frac{9}{281}, -\frac{18}{281}, 1, \frac{12}{281}, -\frac{12}{281}, \frac{15}{281}, -\frac{9}{281})$ $+ \frac{6}{281}\sqrt{3770e^5} \otimes e_9$	{12379, 12489, 134567, 1568, 2369, 246789, 345, 578}
941:20	$0, 0, 0, 0, 0, \frac{60}{1301}\sqrt{19e^{12}}, \frac{5}{1301}\sqrt{8854e^{13}}, \frac{5}{1301}\sqrt{17290e^{24}},$ $\frac{5}{1301}\sqrt{10222e^{16}} + \frac{20}{1301}\sqrt{323e^{34}}$	$(\frac{330}{1301}, -\frac{375}{1301}, \frac{55}{1301}, \frac{230}{1301}, -\frac{245}{1301}, -\frac{45}{1301}, \frac{385}{1301}, -\frac{145}{1301}, \frac{285}{1301})$ $+ \frac{20}{1301}\sqrt{1786e^1} \otimes e_8 + \frac{5}{1301}\sqrt{15086e^4} \otimes e_5$	{12349, 1356, 25689, 48}
941:20	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3e^{12}}, \frac{24}{289}\sqrt{21e^{13}}, \frac{4}{289}\sqrt{707e^{24}},$ $\frac{28}{289}\sqrt{3e^{16}} + \frac{28}{289}e^{34}$	$(-\frac{42}{289}, \frac{66}{289}, \frac{52}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, -\frac{4}{289}, -\frac{18}{289})$ $+ \frac{28}{289}\sqrt{2e^5} \otimes e_9 + \frac{4}{289}\sqrt{854e^2} \otimes e_7 - \frac{4}{289}\sqrt{903e^3} \otimes e_8$	{123469, 14578, 289, 3567}
941:20	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3e^{12}}, \frac{24}{289}\sqrt{21e^{13}}, \frac{4}{289}\sqrt{707e^{24}},$ $\frac{28}{289}\sqrt{3e^{16}} + \frac{28}{289}e^{34}$	$(-\frac{42}{289}, \frac{66}{289}, \frac{52}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, -\frac{4}{289}, -\frac{18}{289})$ $+ \frac{28}{289}\sqrt{2e^5} \otimes e_9 + \frac{4}{289}\sqrt{854e^2} \otimes e_7 + \frac{4}{289}\sqrt{903e^3} \otimes e_8$	{123469, 14578, 289, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:20	$0, 0, 0, 0, 0, \frac{14}{587}\sqrt{102}e^{12}, \frac{14}{587}\sqrt{237}e^{13}, \frac{28}{587}\sqrt{66}e^{24},$ $\frac{126}{587}e^{16} + \frac{14}{587}\sqrt{393}e^{34}$	$(-\frac{7}{587}, \frac{11}{587}, \frac{151}{587}, -\frac{154}{587}, \frac{291}{587}, \frac{4}{587}, \frac{144}{587}, -\frac{143}{587}, -\frac{3}{587})$ $+\frac{14}{587}\sqrt{678}e^5 \otimes e_9 - \frac{28}{587}\sqrt{222}e^3 \otimes e_8$	{123456, 125678, 139, 14789, 23457, 258, 3679, 4689}
941:20	$0, 0, 0, 0, 0, \frac{14}{587}\sqrt{102}e^{12}, \frac{14}{587}\sqrt{237}e^{13}, \frac{28}{587}\sqrt{66}e^{24},$ $\frac{126}{587}e^{16} + \frac{14}{587}\sqrt{393}e^{34}$	$(-\frac{7}{587}, \frac{11}{587}, \frac{151}{587}, -\frac{154}{587}, \frac{291}{587}, \frac{4}{587}, \frac{144}{587}, -\frac{143}{587}, -\frac{3}{587})$ $+\frac{14}{587}\sqrt{678}e^5 \otimes e_9 + \frac{28}{587}\sqrt{222}e^3 \otimes e_8$	{123456, 125678, 139, 14789, 23457, 258, 3679, 4689}
941:20	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{2}{283}\sqrt{2805}e^{13}, \frac{4}{283}\sqrt{935}e^{24},$ $\frac{2}{283}\sqrt{2805}e^{16} + \frac{2}{283}\sqrt{935}e^{34}$	$(-\frac{63}{283}, \frac{99}{283}, -\frac{8}{283}, -\frac{19}{283}, \frac{143}{283}, \frac{36}{283}, -\frac{71}{283}, \frac{80}{283}, -\frac{27}{283})$ $+\frac{20}{283}\sqrt{119}e^2 \otimes e_7 + \frac{2}{283}\sqrt{9095}e^5 \otimes e_9$	{12389, 1567, 2469, 34578}
941:20	$0, 0, 0, 0, 0, \frac{4}{3561}\sqrt{14630}e^{12}, \frac{2}{3561}\sqrt{653030}e^{13}, \frac{44}{3561}\sqrt{1995}e^{24},$ $\frac{38}{3561}\sqrt{35}e^{16} + \frac{14}{3561}\sqrt{9595}e^{34}$	$(-\frac{581}{3561}, \frac{806}{3561}, \frac{19}{1187}, -\frac{413}{3561}, \frac{1723}{3561}, \frac{75}{1187}, -\frac{524}{3561}, \frac{131}{1187}, -\frac{356}{3561})$ $+\frac{2}{3561}\sqrt{1222270}e^2 \otimes e_7 + \frac{2}{3561}\sqrt{925015}e^5 \otimes e_8$	{12368, 1579, 245, 346789}
941:21	$0, 0, 0, 0, 0, \frac{4}{1193}\sqrt{8322}e^{12}, \frac{4}{1193}\sqrt{9490}e^{13}, \frac{292}{1193}e^{34},$ $\frac{4}{1193}\sqrt{24455}e^{14} + \frac{12}{1193}\sqrt{803}e^{26}$	$(-\frac{228}{1193}, \frac{138}{1193}, -\frac{80}{1193}, \frac{276}{1193}, \frac{632}{1193}, -\frac{90}{1193}, -\frac{308}{1193}, \frac{196}{1193}, \frac{48}{1193})$ $+\frac{4}{1193}\sqrt{37157}e^5 \otimes e_9 + \frac{4}{1193}\sqrt{40953}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{2}{137}\sqrt{310}e^{12}, \frac{2}{137}\sqrt{155}e^{13}, \frac{2}{137}\sqrt{310}e^{34},$ $\frac{2}{137}\sqrt{2945}e^{14} + \frac{1}{137}\sqrt{10230}e^{26}$	$(-\frac{8}{137}, -\frac{5}{137}, \frac{30}{137}, -\frac{10}{137}, 1, -\frac{13}{137}, \frac{22}{137}, \frac{20}{137}, -\frac{18}{137})$ $+\frac{1}{137}\sqrt{35030}e^5 \otimes e_9$	{12345678, 12456, 134578, 145, 23489, 2479, 34689, 4679}
941:21	$0, 0, 0, 0, 0, \frac{2}{3273}\sqrt{661178}e^{12}, \frac{4}{3273}\sqrt{10811}e^{13}, \frac{2}{1091}\sqrt{41537}e^{34},$ $\frac{34}{3273}\sqrt{569}e^{14} + \frac{2}{3273}\sqrt{415370}e^{26}$	$(\frac{809}{3273}, \frac{3}{1091}, -\frac{347}{3273}, \frac{6}{1091}, -\frac{1129}{3273}, \frac{818}{3273}, \frac{154}{1091}, -\frac{329}{3273}, \frac{827}{3273})$ $+\frac{28}{3273}\sqrt{3983}e^1 \otimes e_8 + \frac{2}{3273}\sqrt{862035}e^2 \otimes e_5$	{12349, 134569, 2468, 458}
941:21	$0, 0, 0, 0, 0, \frac{4}{759}\sqrt{481}e^{12}, \frac{4}{759}\sqrt{6586}e^{13}, \frac{4}{759}\sqrt{481}e^{34},$ $\frac{4}{759}\sqrt{7363}e^{14} + \frac{4}{759}\sqrt{1554}e^{26}$	$(\frac{26}{759}, \frac{34}{253}, -\frac{118}{759}, \frac{68}{253}, -\frac{90}{253}, \frac{128}{759}, -\frac{4}{33}, \frac{86}{759}, \frac{10}{33})$ $+\frac{28}{759}\sqrt{259}e^1 \otimes e_5 + \frac{28}{759}\sqrt{259}e^4 \otimes e_7$	{1234, 1346, 245689, 4589}
941:21	$0, 0, 0, 0, 0, \frac{20}{987}\sqrt{87}e^{12}, \frac{4}{987}\sqrt{5510}e^{13}, \frac{2}{987}\sqrt{26390}e^{34},$ $\frac{4}{987}\sqrt{13282}e^{14} + \frac{4}{987}\sqrt{4379}e^{26}$	$(\frac{50}{329}, -\frac{116}{987}, \frac{50}{329}, -\frac{232}{987}, \frac{110}{987}, \frac{34}{987}, \frac{100}{329}, -\frac{82}{987}, -\frac{82}{987})$ $+\frac{2}{987}\sqrt{48662}e^1 \otimes e_8 + \frac{2}{987}\sqrt{53070}e^3 \otimes e_9$	{12579, 1279, 15679, 1679, 235678, 23678, 3578, 378}
941:21	$0, 0, 0, 0, 0, \frac{20}{987}\sqrt{87}e^{12}, \frac{4}{987}\sqrt{5510}e^{13}, \frac{2}{987}\sqrt{26390}e^{34},$ $\frac{2}{987}\sqrt{13282}e^{14} + \frac{4}{987}\sqrt{4379}e^{26}$	$(\frac{50}{329}, -\frac{116}{987}, \frac{50}{329}, -\frac{232}{987}, \frac{110}{987}, \frac{34}{987}, \frac{100}{329}, -\frac{82}{987}, -\frac{82}{987})$ $+\frac{2}{987}\sqrt{48662}e^1 \otimes e_8 - \frac{2}{987}\sqrt{53070}e^3 \otimes e_9$	{12579, 1279, 15679, 1679, 235678, 23678, 3578, 378}
941:21	$0, 0, 0, 0, 0, \frac{2}{2275}\sqrt{168566}e^{12}, \frac{2}{2275}\sqrt{71022}e^{13}, \frac{66}{2275}\sqrt{178}e^{34},$ $\frac{2}{2275}\sqrt{105554}e^{14} + \frac{4}{2275}\sqrt{36223}e^{26}$	$(\frac{291}{2275}, \frac{88}{2275}, -\frac{444}{2275}, \frac{176}{2275}, -\frac{36}{455}, \frac{379}{2275}, -\frac{153}{2275}, -\frac{268}{2275}, \frac{467}{2275})$ $+\frac{2}{2275}\sqrt{285334}e^2 \otimes e_8 + \frac{4}{2275}\sqrt{18957}e^4 \otimes e_5$	{123479, 14689, 2346, 478}
941:21	$0, 0, 0, 0, 0, \frac{2}{201}\sqrt{1270}e^{12}, \frac{2}{201}\sqrt{9906}e^{13}, \frac{2}{201}\sqrt{1270}e^{34},$ $\frac{2}{201}\sqrt{1651}e^{14} + \frac{8}{201}\sqrt{127}e^{26}$	$(-\frac{20}{201}, \frac{29}{201}, -\frac{11}{67}, \frac{58}{201}, 1, \frac{3}{67}, -\frac{53}{201}, \frac{25}{201}, \frac{38}{201})$ $+\frac{2}{201}\sqrt{21082}e^5 \otimes e_7$	{12356, 12678, 135, 178, 2379, 2589, 3679, 5689}
941:21	$0, 0, 0, 0, 0, \frac{12}{3467}\sqrt{1853}e^{12}, \frac{12}{3467}\sqrt{14433}e^{13}, \frac{36}{3467}\sqrt{391}e^{34},$ $\frac{24}{3467}\sqrt{2567}e^{14} + \frac{84}{3467}\sqrt{170}e^{26}$	$(\frac{218}{3467}, -\frac{212}{3467}, \frac{1018}{3467}, -\frac{424}{3467}, -\frac{1006}{3467}, \frac{6}{3467}, \frac{1236}{3467}, \frac{594}{3467}, -\frac{206}{3467})$ $+\frac{12}{3467}\sqrt{23681}e^1 \otimes e_5 + \frac{12}{3467}\sqrt{28679}e^3 \otimes e_9$	{1279, 1679, 235678, 3578}
941:21	$0, 0, 0, 0, 0, \frac{1}{477}\sqrt{34338}e^{12}, \frac{2}{477}\sqrt{8319}e^{13}, \frac{2}{159}\sqrt{59}e^{34},$ $\frac{1}{159}\sqrt{2242}e^{14} + \frac{2}{477}\sqrt{15753}e^{26}$	$(-\frac{79}{477}, \frac{1}{9}, -\frac{5}{53}, \frac{2}{9}, \frac{68}{159}, -\frac{26}{477}, -\frac{124}{477}, \frac{61}{477}, \frac{3}{53})$ $+\frac{1}{159}\sqrt{10738}e^2 \otimes e_7 + \frac{1}{477}\sqrt{52746}e^5 \otimes e_9$	{12349, 146789, 24568, 3457}
941:21	$0, 0, 0, 0, 0, \frac{1}{1241}\sqrt{556478}e^{12}, \frac{2}{1241}\sqrt{177519}e^{13}, \frac{2}{1241}\sqrt{76799}e^{34},$ $\frac{4}{1241}\sqrt{46583}e^{14} + \frac{2}{1241}\sqrt{17626}e^{26}$	$(\frac{26}{73}, \frac{19}{1241}, \frac{52}{1241}, \frac{38}{1241}, -\frac{817}{1241}, \frac{461}{1241}, \frac{494}{1241}, \frac{90}{1241}, \frac{480}{1241})$ $+\frac{7}{1241}\sqrt{52878}e^1 \otimes e_5$	{12348, 1247, 13468, 1467, 23456789, 24569, 345789, 459}
941:21	$0, 0, 0, 0, 0, \frac{8}{1129}\sqrt{2210}e^{12}, \frac{8}{1129}\sqrt{1105}e^{13}, \frac{8}{1129}\sqrt{2210}e^{34},$ $\frac{8}{1129}\sqrt{3893}e^{14} + \frac{24}{1129}\sqrt{221}e^{26}$	$(\frac{260}{1129}, -\frac{112}{1129}, -\frac{60}{1129}, -\frac{224}{1129}, \frac{580}{1129}, \frac{148}{1129}, \frac{200}{1129}, -\frac{284}{1129}, \frac{36}{1129})$ $+\frac{24}{1129}\sqrt{1037}e^1 \otimes e_8 + \frac{8}{1129}\sqrt{7565}e^5 \otimes e_9$	{1279, 1679, 235678, 3578}
941:21	$0, 0, 0, 0, 0, \frac{2}{777}\sqrt{13205}e^{12}, \frac{2}{777}\sqrt{973}e^{13}, \frac{4}{777}\sqrt{7089}e^{34},$ $\frac{4}{777}\sqrt{5977}e^{14} + \frac{2}{777}\sqrt{4309}e^{26}$	$(\frac{190}{777}, \frac{5}{259}, -\frac{118}{777}, \frac{10}{259}, -\frac{248}{777}, \frac{205}{777}, \frac{24}{259}, -\frac{88}{777}, \frac{220}{777})$ $+\frac{2}{777}\sqrt{45453}e^4 \otimes e_5 + \frac{2}{777}\sqrt{51569}e^1 \otimes e_8$	{12347, 13467, 246789, 4789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:21	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638e^{12}}, \frac{4}{1211}\sqrt{27699e^{13}}, \frac{26}{1211}\sqrt{1319e^{34}},$ $\frac{1}{1211}\sqrt{962870e^{14}} + \frac{1}{1211}\sqrt{145090e^{26}}$	$(\frac{2}{1211}, \frac{254}{1211}, \frac{30}{1211}, \frac{508}{1211}, -\frac{811}{1211}, \frac{256}{1211}, \frac{32}{1211}, \frac{538}{1211}, \frac{510}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^4} \otimes e_5$	{12347, 1248, 13467, 1468, 23469, 246789, 349, 4789}
941:21	$0, 0, 0, 0, 0, \frac{22}{87}\sqrt{7e^{12}}, \frac{11}{87}\sqrt{14e^{13}}, \frac{22}{87}\sqrt{7e^{34}},$ $\frac{2}{87}\sqrt{385e^{14}} + \frac{2}{87}\sqrt{77e^{26}}$	$(\frac{44}{87}, -\frac{8}{87}, -\frac{17}{87}, -\frac{16}{87}, \frac{16}{87}, \frac{12}{29}, \frac{9}{29}, -\frac{11}{29}, \frac{28}{87})$ $+ \frac{1}{87}\sqrt{10934e^1} \otimes e_8$	{12579, 1279, 15679, 1679, 235678, 23678, 3578, 378}
941:21	$0, 0, 0, 0, 0, \frac{66}{3799}\sqrt{70e^{12}}, \frac{33}{3799}\sqrt{34e^{13}}, \frac{11}{3799}\sqrt{3270e^{34}},$ $\frac{1}{3799}\sqrt{1874e^{14}} + \frac{132}{3799}\sqrt{22e^{26}}$	$(\frac{220}{3799}, -\frac{154}{3799}, \frac{33}{3799}, -\frac{308}{3799}, \frac{374}{3799}, \frac{66}{3799}, \frac{253}{3799}, -\frac{275}{3799}, -\frac{88}{3799})$ $+ \frac{110}{3799}\sqrt{46e^2} \otimes e_8 + \frac{165}{3799}\sqrt{10e^3} \otimes e_9 + \frac{44}{3799}\sqrt{2e^5} \otimes e_7$	{14689, 2346}
941:21	$0, 0, 0, 0, 0, \frac{14}{181}\sqrt{10e^{12}}, \frac{6}{181}\sqrt{7e^{13}}, \frac{2}{181}\sqrt{595e^{34}},$ $\frac{2}{181}\sqrt{455e^{14}} + \frac{2}{181}\sqrt{469e^{26}}$	$(\frac{22}{181}, -\frac{1}{181}, -\frac{13}{181}, -\frac{2}{181}, -\frac{27}{181}, \frac{21}{181}, \frac{9}{181}, -\frac{15}{181}, \frac{20}{181})$ $+ \frac{2}{181}\sqrt{826e^2} \otimes e_8 + \frac{6}{181}\sqrt{35e^3} \otimes e_5$	{123479, 145689, 2346, 4578}
941:21	$0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{462e^{12}}, \frac{100}{2209}\sqrt{33e^{13}}, \frac{550}{2209}\sqrt{3e^{34}},$ $\frac{550}{2209}e^{14} + \frac{50}{2209}\sqrt{506e^{26}}$	$(-\frac{185}{2209}, \frac{429}{2209}, -\frac{207}{2209}, \frac{858}{2209}, -\frac{821}{2209}, \frac{244}{2209}, -\frac{392}{2209}, \frac{651}{2209}, \frac{673}{2209})$ $+ \frac{100}{2209}\sqrt{203e^4} \otimes e_7 + \frac{50}{2209}\sqrt{1109e^2} \otimes e_5$	{12349, 134569, 2468, 458}
941:21	$0, 0, 0, 0, 0, \frac{2}{3605}\sqrt{128535e^{12}}, \frac{2}{3605}\sqrt{162393e^{13}}, \frac{2}{3605}\sqrt{546117e^{34}},$ $\frac{2}{3605}\sqrt{459591e^{14}} + \frac{2}{3605}\sqrt{301587e^{26}}$	$(-\frac{82}{721}, \frac{101}{3605}, \frac{1046}{3605}, \frac{202}{3605}, -\frac{1052}{3605}, -\frac{3}{3605}, \frac{636}{3605}, \frac{1248}{3605}, \frac{208}{3605})$ $+ \frac{2}{3605}\sqrt{1127973e^3} \otimes e_9 + \frac{2}{3605}\sqrt{895983e^4} \otimes e_5$	{12346, 134, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{30e^{12}}, \frac{1}{25}\sqrt{30e^{13}}, \frac{1}{25}\sqrt{110e^{34}},$ $\frac{4}{25}\sqrt{5e^{14}} + \frac{2}{5}e^{26}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{190e^2} \otimes e_8 + \frac{1}{25}\sqrt{30e^1} \otimes e_5$	{123479, 14689, 23456, 4578}
941:21	$0, 0, 0, 0, 0, \frac{1}{455}\sqrt{386e^{12}}, \frac{2}{455}\sqrt{5018e^{13}}, \frac{1}{455}\sqrt{51338e^{34}},$ $\frac{2}{455}\sqrt{386e^{14}} + \frac{8}{455}\sqrt{579e^{26}}$	$(-\frac{2}{455}, -\frac{6}{65}, \frac{107}{455}, -\frac{12}{65}, \frac{216}{455}, -\frac{44}{65}, \frac{3}{455}, \frac{23}{455}, -\frac{86}{455})$ $+ \frac{1}{455}\sqrt{62918e^5} \otimes e_8 + \frac{1}{455}\sqrt{92254e^3} \otimes e_9$	{123456, 1345, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15e^{12}}, \frac{1}{8}\sqrt{10e^{13}}, \frac{1}{24}\sqrt{42e^{34}},$ $\frac{1}{12}\sqrt{21e^{14}} + \frac{1}{8}\sqrt{10e^{26}}$	$(-\frac{1}{8}, \frac{1}{8}, 0, \frac{1}{4}, -\frac{1}{4}, 0, -\frac{1}{8}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{12}\sqrt{39e^2} \otimes e_7 + \frac{1}{24}\sqrt{102e^3} \otimes e_5$	{12349, 1456789, 24568, 347}
941:21	$0, 0, 0, 0, 0, \frac{198}{587}e^{12}, \frac{33}{587}\sqrt{78e^{13}}, \frac{198}{587}e^{34},$ $\frac{6}{587}\sqrt{429e^{14}} + \frac{6}{587}\sqrt{231e^{26}}$	$(\frac{132}{587}, -\frac{12}{587}, -\frac{141}{587}, -\frac{24}{587}, \frac{288}{587}, \frac{120}{587}, -\frac{9}{587}, -\frac{165}{587}, \frac{108}{587})$ $+ \frac{3}{587}\sqrt{19734e^1} \otimes e_8 + \frac{66}{587}\sqrt{30e^5} \otimes e_7$	{1279, 1679, 23678, 378}
941:21	$0, 0, 0, 0, 0, \frac{2}{371}\sqrt{5135e^{12}}, \frac{4}{371}\sqrt{455e^{13}}, \frac{2}{371}\sqrt{5135e^{34}},$ $\frac{2}{371}\sqrt{3445e^{14}} + \frac{1}{371}\sqrt{20670e^{26}}$	$(\frac{46}{371}, -\frac{5}{371}, -\frac{60}{371}, -\frac{10}{371}, \frac{101}{371}, \frac{41}{371}, -\frac{2}{53}, -\frac{10}{53}, \frac{36}{371})$ $+ \frac{1}{371}\sqrt{7670e^5} \otimes e_9 + \frac{30}{371}\sqrt{39e^2} \otimes e_8$	{123479, 14689, 23456, 4578}
941:21	$0, 0, 0, 0, 0, \frac{32}{3083}\sqrt{714e^{12}}, \frac{32}{3083}\sqrt{571e^{13}}, \frac{32}{3083}\sqrt{286e^{34}},$ $\frac{32}{3083}\sqrt{181e^{14}} + \frac{32}{3083}\sqrt{771e^{26}}$	$(\frac{144}{3083}, \frac{96}{3083}, -\frac{560}{3083}, \frac{192}{3083}, \frac{848}{3083}, \frac{240}{3083}, -\frac{416}{3083}, -\frac{368}{3083}, \frac{336}{3083})$ $+ \frac{32}{3083}\sqrt{551e^5} \otimes e_9 + \frac{32}{3083}\sqrt{951e^1} \otimes e_8 + \frac{64}{3083}\sqrt{321e^2} \otimes e_7$	{12349, 24568}
941:21	$0, 0, 0, 0, 0, \frac{2}{369}\sqrt{2265e^{12}}, \frac{1}{123}\sqrt{3926e^{13}}, \frac{1}{369}\sqrt{10570e^{34}},$ $\frac{1}{369}\sqrt{3926e^{14}} + \frac{2}{369}\sqrt{5587e^{26}}$	$(-\frac{20}{123}, -\frac{4}{369}, \frac{83}{369}, -\frac{8}{369}, \frac{58}{123}, -\frac{64}{369}, \frac{23}{369}, \frac{25}{123}, -\frac{68}{369})$ $+ \frac{1}{369}\sqrt{58890e^3} \otimes e_9 + \frac{2}{369}\sqrt{10117e^5} \otimes e_7$	{123456, 1345, 24589, 45689}
941:21	$0, 0, 0, 0, 0, \frac{2}{1615}\sqrt{94367e^{12}}, \frac{14}{1615}\sqrt{2013e^{13}}, \frac{4}{1615}\sqrt{2135e^{34}},$ $\frac{1}{1615}\sqrt{147742e^{14}} + \frac{1}{1615}\sqrt{344162e^{26}}$	$(\frac{1}{95}, \frac{191}{1615}, -\frac{253}{1615}, \frac{382}{1615}, -\frac{82}{323}, \frac{208}{1615}, -\frac{236}{1615}, \frac{129}{1615}, \frac{21}{85})$ $+ \frac{1}{1615}\sqrt{494466e^1} \otimes e_5 + \frac{1}{95}\sqrt{2562e^2} \otimes e_7$	{123489, 14679, 2456, 34578}
941:21	$0, 0, 0, 0, 0, \frac{16}{1735}\sqrt{3003e^{12}}, \frac{16}{1735}\sqrt{2310e^{13}}, \frac{48}{1735}\sqrt{154e^{34}},$ $\frac{16}{1735}\sqrt{2002e^{14}} + \frac{112}{1735}\sqrt{77e^{26}}$	$(-\frac{239}{1735}, \frac{363}{1735}, -\frac{294}{1735}, \frac{726}{1735}, -\frac{34}{347}, \frac{124}{1735}, -\frac{533}{1735}, \frac{432}{1735}, \frac{487}{1735})$ $+ \frac{16}{1735}\sqrt{7679e^2} \otimes e_7 + \frac{32}{1735}\sqrt{707e^4} \otimes e_5$	{12349, 146789, 2468, 347}
941:21	$0, 0, 0, 0, 0, \frac{4}{317}\sqrt{4445e^{12}}, \frac{6}{317}\sqrt{254e^{13}}, \frac{4}{317}\sqrt{1651e^{34}},$ $\frac{2}{317}\sqrt{10795e^{14}} + \frac{2}{317}\sqrt{17018e^{26}}$	$(\frac{16}{317}, \frac{43}{317}, \frac{19}{317}, \frac{86}{317}, -\frac{211}{317}, \frac{59}{317}, \frac{35}{317}, \frac{105}{317}, \frac{102}{317})$ $+ \frac{4}{317}\sqrt{8382e^2} \otimes e_5$	{123479, 12489, 1345679, 145689, 2346, 24678, 345, 4578}
941:21	$0, 0, 0, 0, 0, \frac{32}{995}\sqrt{51e^{12}}, \frac{24}{995}\sqrt{354e^{13}}, \frac{8}{995}\sqrt{2778e^{34}},$ $\frac{16}{995}\sqrt{105e^{14}} + \frac{8}{995}\sqrt{246e^{26}}$	$(-\frac{136}{995}, \frac{144}{995}, \frac{8}{199}, \frac{288}{995}, -\frac{344}{995}, \frac{8}{995}, -\frac{96}{995}, \frac{328}{995}, \frac{152}{995})$ $+ \frac{16}{995}\sqrt{1374e^4} \otimes e_7 + \frac{8}{995}\sqrt{5286e^3} \otimes e_5$	{12346, 134, 24589, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:21	$0, 0, 0, 0, 0, \frac{20}{1061}\sqrt{30}e^{12}, \frac{40}{1061}\sqrt{34}e^{13}, \frac{20}{1061}\sqrt{151}e^{34},$ $\frac{20}{1061}\sqrt{239}e^{14} + \frac{60}{1061}\sqrt{3}e^{26}$	$(\frac{60}{1061}, \frac{30}{1061}, -\frac{200}{1061}, \frac{60}{1061}, \frac{320}{1061}, \frac{90}{1061}, -\frac{140}{1061}, -\frac{140}{1061}, \frac{120}{1061})$ $+ \frac{20}{1061}\sqrt{233}e^5 \otimes e_9 + \frac{220}{1061}\sqrt{3}e^4 \otimes e_7 + \frac{60}{1061}\sqrt{42}e^1 \otimes e_8$	{1279, 1679, 235678, 3578}
941:21	$0, 0, 0, 0, 0, \frac{20}{1061}\sqrt{30}e^{12}, \frac{40}{1061}\sqrt{34}e^{13}, \frac{20}{1061}\sqrt{151}e^{34},$ $\frac{20}{1061}\sqrt{239}e^{14} + \frac{60}{1061}\sqrt{3}e^{26}$	$(\frac{60}{1061}, \frac{30}{1061}, -\frac{200}{1061}, \frac{60}{1061}, \frac{320}{1061}, \frac{90}{1061}, -\frac{140}{1061}, -\frac{140}{1061}, \frac{120}{1061})$ $+ \frac{20}{1061}\sqrt{233}e^5 \otimes e_9 - \frac{220}{1061}\sqrt{3}e^4 \otimes e_7 + \frac{60}{1061}\sqrt{42}e^1 \otimes e_8$	{1279, 1679, 235678, 3578}
941:21	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{21}{121}\sqrt{5}e^{13}, \frac{14}{121}\sqrt{10}e^{34},$ $\frac{28}{121}\sqrt{67}e^{14} + \frac{28}{121}\sqrt{5}e^{26}$	$(-\frac{7}{121}, \frac{14}{121}, -\frac{28}{121}, \frac{28}{121}, \frac{49}{121}, \frac{7}{121}, -\frac{35}{121}, 0, \frac{21}{121})$ $+ \frac{7}{121}\sqrt{69}e^5 \otimes e_8 + \frac{84}{121}e^2 \otimes e_7$	{123459, 146789, 2468, 3457}
941:21	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{195}e^{12}, \frac{6}{119}\sqrt{26}e^{13}, \frac{4}{119}\sqrt{195}e^{34},$ $\frac{2}{119}\sqrt{611}e^{14} + \frac{6}{119}\sqrt{78}e^{26}$	$(\frac{20}{119}, \frac{1}{119}, -\frac{27}{119}, \frac{2}{119}, \frac{19}{119}, \frac{3}{119}, -\frac{1}{119}, -\frac{25}{119}, \frac{22}{119})$ $+ \frac{20}{119}\sqrt{13}e^2 \otimes e_8 + \frac{4}{119}\sqrt{13}e^5 \otimes e_7$	{123479, 145689, 23456, 478}
941:21	$0, 0, 0, 0, 0, \frac{12}{1301}\sqrt{1019}e^{12}, \frac{1}{1301}\sqrt{654198}e^{13}, \frac{1}{1301}\sqrt{580830}e^{34},$ $\frac{5}{1301}\sqrt{10190}e^{14} + \frac{28}{1301}\sqrt{1019}e^{26}$	$(-\frac{144}{1301}, -\frac{90}{1301}, \frac{695}{1301}, -\frac{180}{1301}, \frac{230}{1301}, -\frac{234}{1301}, \frac{551}{1301}, \frac{515}{1301}, -\frac{324}{1301})$ $+ \frac{3}{1301}\sqrt{242522}e^3 \otimes e_9$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
941:21	$0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{76799}e^{12}, \frac{2}{1241}\sqrt{177519}e^{13}, \frac{1}{1241}\sqrt{556478}e^{34},$ $\frac{4}{1241}\sqrt{46583}e^{14} + \frac{2}{1241}\sqrt{17626}e^{26}$	$(-\frac{244}{1241}, \frac{362}{1241}, -\frac{291}{1241}, \frac{724}{1241}, \frac{212}{1241}, \frac{118}{1241}, -\frac{535}{1241}, \frac{433}{1241}, \frac{480}{1241})$ $+ \frac{7}{1241}\sqrt{52878}e^4 \otimes e_7$	{125679, 12679, 1579, 179, 23578, 2378, 35678, 3678}
941:21	$0, 0, 0, 0, 0, \frac{2}{519}\sqrt{2533}e^{12}, \frac{2}{519}\sqrt{6854}e^{13}, \frac{1}{519}\sqrt{32482}e^{34},$ $\frac{10}{519}\sqrt{298}e^{14} + \frac{4}{519}\sqrt{298}e^{26}$	$(\frac{68}{519}, \frac{34}{519}, -\frac{149}{519}, \frac{68}{519}, \frac{52}{519}, \frac{34}{173}, -\frac{27}{173}, -\frac{27}{173}, \frac{136}{519})$ $+ \frac{22}{519}\sqrt{149}e^1 \otimes e_8 + \frac{5}{173}\sqrt{298}e^4 \otimes e_7$	{1234, 12345, 13456, 1346, 245689, 24689, 4589, 489}
941:21	$0, 0, 0, 0, 0, \frac{2}{519}\sqrt{2533}e^{12}, \frac{2}{519}\sqrt{6854}e^{13}, \frac{1}{519}\sqrt{32482}e^{34},$ $\frac{10}{519}\sqrt{298}e^{14} + \frac{4}{519}\sqrt{298}e^{26}$	$(\frac{68}{519}, \frac{34}{519}, -\frac{149}{519}, \frac{68}{519}, \frac{52}{519}, \frac{34}{173}, -\frac{27}{173}, -\frac{27}{173}, \frac{136}{519})$ $+ \frac{22}{519}\sqrt{149}e^1 \otimes e_8 - \frac{5}{173}\sqrt{298}e^4 \otimes e_7$	{1234, 12345, 13456, 1346, 245689, 24689, 4589, 489}
941:21	$0, 0, 0, 0, 0, \frac{46}{209}e^{12}, \frac{1}{209}\sqrt{4738}e^{13}, \frac{4}{209}\sqrt{230}e^{34},$ $\frac{5}{209}\sqrt{138}e^{14} + \frac{4}{209}\sqrt{161}e^{26}$	$(-\frac{46}{209}, \frac{15}{209}, \frac{30}{209}, \frac{30}{209}, \frac{20}{209}, -\frac{31}{209}, \frac{16}{209}, \frac{60}{209}, -\frac{16}{209})$ $+ \frac{1}{209}\sqrt{9338}e^3 \otimes e_9 + \frac{5}{209}\sqrt{322}e^4 \otimes e_7$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
941:21	$0, 0, 0, 0, 0, \frac{46}{209}e^{12}, \frac{1}{209}\sqrt{4738}e^{13}, \frac{4}{209}\sqrt{230}e^{34},$ $\frac{5}{209}\sqrt{138}e^{14} + \frac{4}{209}\sqrt{161}e^{26}$	$(-\frac{46}{209}, \frac{15}{209}, \frac{30}{209}, \frac{30}{209}, \frac{20}{209}, -\frac{31}{209}, -\frac{16}{209}, \frac{60}{209}, -\frac{16}{209})$ $+ \frac{1}{209}\sqrt{9338}e^3 \otimes e_9 - \frac{5}{209}\sqrt{322}e^4 \otimes e_7$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
941:21	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{6}{157}\sqrt{415}e^{13}, \frac{2}{157}\sqrt{3901}e^{34},$ $\frac{2}{157}\sqrt{2407}e^{14} + \frac{2}{157}\sqrt{1577}e^{26}$	$(\frac{8}{157}, \frac{5}{157}, \frac{65}{157}, \frac{10}{157}, -\frac{101}{157}, \frac{13}{157}, \frac{73}{157}, \frac{75}{157}, \frac{18}{157})$ $+ \frac{2}{157}\sqrt{10707}e^3 \otimes e_5$	{12349, 1245789, 13469, 1456789, 23467, 24568, 347, 458}
941:21	$0, 0, 0, 0, 0, \frac{2}{3049}\sqrt{283810}e^{12}, \frac{4}{3049}\sqrt{35855}e^{13}, \frac{10}{3049}\sqrt{11413}e^{34},$ $\frac{2}{3049}\sqrt{135845}e^{14} + \frac{2}{3049}\sqrt{558530}e^{26}$	$(-\frac{215}{3049}, \frac{33}{3049}, \frac{861}{3049}, \frac{66}{3049}, -\frac{977}{3049}, -\frac{182}{3049}, \frac{646}{3049}, \frac{927}{3049}, -\frac{149}{3049})$ $+ \frac{2}{3049}\sqrt{676195}e^2 \otimes e_5 + \frac{4}{3049}\sqrt{170185}e^3 \otimes e_9$	{124789, 1456789, 23467, 3457}
941:21	$0, 0, 0, 0, 0, \frac{4}{637}\sqrt{10199}e^{12}, \frac{12}{637}\sqrt{1034}e^{13}, \frac{4}{637}\sqrt{1786}e^{34},$ $\frac{8}{637}\sqrt{2491}e^{14} + \frac{4}{637}\sqrt{13301}e^{26}$	$(-\frac{103}{637}, \frac{137}{637}, -\frac{136}{637}, \frac{274}{637}, \frac{100}{637}, \frac{34}{637}, -\frac{239}{637}, \frac{138}{637}, \frac{171}{637})$ $+ \frac{4}{637}\sqrt{25239}e^2 \otimes e_7$	{123459, 12349, 1456789, 146789, 24568, 2468, 3457, 347}
941:21	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30257}e^{12}, \frac{3}{311}\sqrt{1915}e^{13}, \frac{2}{311}\sqrt{23746}e^{34},$ $\frac{1}{311}\sqrt{29491}e^{14} + \frac{8}{311}\sqrt{383}e^{26}$	$(\frac{79}{311}, -\frac{14}{311}, -\frac{44}{311}, -\frac{28}{311}, 1, \frac{65}{311}, \frac{35}{311}, -\frac{72}{311}, \frac{51}{311})$ $+ \frac{13}{311}\sqrt{1149}e^5 \otimes e_8$	{1234579, 12489, 1345679, 14689, 23456, 24678, 345, 478}
941:21	$0, 0, 0, 0, 0, \frac{2}{209}\sqrt{2530}e^{12}, \frac{12}{209}\sqrt{23}e^{13}, \frac{2}{209}\sqrt{2530}e^{34},$ $\frac{2}{209}\sqrt{1955}e^{14} + \frac{14}{209}\sqrt{46}e^{26}$	$(\frac{2}{11}, \frac{1}{209}, -\frac{47}{209}, \frac{2}{209}, \frac{27}{209}, \frac{39}{209}, -\frac{9}{209}, -\frac{45}{209}, \frac{40}{209})$ $+ \frac{2}{209}\sqrt{4186}e^2 \otimes e_8$	{1234579, 123479, 145689, 14689, 23456, 2346, 4578, 478}
941:21	$0, 0, 0, 0, 0, \frac{7}{415}\sqrt{114}e^{12}, \frac{56}{415}\sqrt{3}e^{13}, \frac{7}{415}\sqrt{138}e^{34},$ $\frac{14}{415}\sqrt{29}e^{14} + \frac{14}{415}\sqrt{69}e^{26}$	$(-\frac{56}{415}, \frac{14}{415}, \frac{21}{415}, \frac{28}{415}, \frac{98}{415}, -\frac{42}{415}, -\frac{7}{415}, \frac{49}{415}, -\frac{28}{415})$ $+ \frac{14}{415}\sqrt{85}e^2 \otimes e_7 + \frac{49}{415}\sqrt{6}e^3 \otimes e_9 + \frac{7}{415}\sqrt{118}e^5 \otimes e_8$	{146789, 3457}
941:21	$0, 0, 0, 0, 0, \frac{176}{987}\sqrt{3}e^{12}, \frac{44}{987}\sqrt{74}e^{13}, \frac{44}{987}\sqrt{2}e^{34},$ $\frac{40}{987}\sqrt{11}e^{14} + \frac{4}{987}\sqrt{1958}e^{26}$	$(\frac{88}{329}, -\frac{68}{987}, \frac{16}{329}, -\frac{136}{987}, -\frac{304}{987}, \frac{28}{141}, \frac{104}{329}, -\frac{88}{987}, \frac{128}{987})$ $+ \frac{220}{987}\sqrt{6}e^3 \otimes e_5 + \frac{8}{987}\sqrt{5126}e^1 \otimes e_8$	{12349, 13469, 24568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:21	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{110}e^{12}, \frac{1}{25}\sqrt{30}e^{13}, \frac{2}{25}\sqrt{30}e^{34},$ $\frac{4}{25}\sqrt{5}e^{14} + \frac{2}{5}e^{26}$	$(\frac{3}{25}, \frac{1}{25}, -\frac{6}{25}, \frac{2}{25}, \frac{3}{25}, \frac{4}{25}, -\frac{3}{25}, -\frac{4}{25}, \frac{1}{5})$ $+\frac{1}{25}\sqrt{190}e^2 \otimes e_8 + \frac{1}{25}\sqrt{30}e^4 \otimes e_7$	{145689, 14689, 23456, 2346}
941:21	$0, 0, 0, 0, 0, \frac{66}{1553}\sqrt{59}e^{12}, \frac{22}{1553}\sqrt{155}e^{13}, \frac{88}{1553}\sqrt{37}e^{34},$ $\frac{22}{1553}\sqrt{313}e^{14} + \frac{22}{1553}\sqrt{561}e^{26}$	$(\frac{99}{1553}, \frac{33}{1553}, -\frac{275}{1553}, \frac{66}{1553}, \frac{407}{1553}, \frac{132}{1553}, -\frac{176}{1553}, -\frac{209}{1553}, \frac{165}{1553})$ $+\frac{154}{1553}\sqrt{5}e^5 \otimes e_9 + \frac{22}{1553}\sqrt{183}e^4 \otimes e_7 + \frac{66}{1553}\sqrt{107}e^2 \otimes e_8$	{14689, 23456}
941:21	$0, 0, 0, 0, 0, \frac{2}{1349}\sqrt{9546}e^{12}, \frac{1}{1349}\sqrt{4386}e^{13}, \frac{1}{1349}\sqrt{49622}e^{34},$ $\frac{1}{1349}\sqrt{28466}e^{14} + \frac{4}{1349}\sqrt{3010}e^{26}$	$(\frac{4}{71}, -\frac{54}{1349}, \frac{11}{1349}, -\frac{108}{1349}, \frac{138}{1349}, \frac{22}{1349}, \frac{87}{1349}, -\frac{97}{1349}, -\frac{32}{1349})$ $+\frac{1}{1349}\sqrt{34314}e^3 \otimes e_9 + \frac{2}{1349}\sqrt{17458}e^2 \otimes e_8$	{145689, 14689, 23456, 2346}
941:21	$0, 0, 0, 0, 0, \frac{27}{457}\sqrt{6}e^{12}, \frac{27}{457}\sqrt{26}e^{13}, \frac{9}{457}\sqrt{762}e^{34},$ $\frac{9}{457}\sqrt{222}e^{14} + \frac{18}{457}\sqrt{6}e^{26}$	$(-\frac{18}{457}, \frac{54}{457}, -\frac{117}{457}, \frac{108}{457}, \frac{234}{457}, \frac{36}{457}, -\frac{135}{457}, -\frac{9}{457}, \frac{90}{457})$ $+\frac{9}{457}\sqrt{1110}e^5 \otimes e_8 + \frac{9}{457}\sqrt{1338}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{2}{1693}\sqrt{33909}e^{12}, \frac{1}{1693}\sqrt{263262}e^{13}, \frac{1}{1693}\sqrt{109470}e^{34},$ $\frac{7}{1693}\sqrt{2670}e^{14} + \frac{2}{1693}\sqrt{86241}e^{26}$	$(-\frac{322}{1693}, \frac{110}{1693}, \frac{165}{1693}, \frac{220}{1693}, \frac{180}{1693}, -\frac{212}{1693}, -\frac{157}{1693}, \frac{385}{1693}, -\frac{102}{1693})$ $+\frac{1}{1693}\sqrt{364722}e^3 \otimes e_9 + \frac{2}{1693}\sqrt{110805}e^2 \otimes e_7$	{1456789, 146789, 3457, 347}
941:21	$0, 0, 0, 0, 0, \frac{108}{1073}e^{12}, \frac{36}{1073}\sqrt{65}e^{13}, \frac{9}{1073}\sqrt{690}e^{34},$ $\frac{117}{1073}\sqrt{2}e^{14} + \frac{36}{1073}\sqrt{35}e^{26}$	$(\frac{72}{1073}, -\frac{81}{1073}, \frac{72}{1073}, -\frac{162}{1073}, \frac{306}{1073}, -\frac{9}{1073}, \frac{144}{1073}, -\frac{90}{1073}, -\frac{90}{1073})$ $+\frac{18}{1073}\sqrt{211}e^5 \otimes e_7 + \frac{27}{1073}\sqrt{182}e^3 \otimes e_9 + \frac{9}{1073}\sqrt{1430}e^1 \otimes e_8$	{1279, 1679, 23678, 378}
941:21	$0, 0, 0, 0, 0, \frac{108}{1073}e^{12}, \frac{36}{1073}\sqrt{65}e^{13}, \frac{9}{1073}\sqrt{690}e^{34},$ $\frac{117}{1073}\sqrt{2}e^{14} + \frac{36}{1073}\sqrt{35}e^{26}$	$(\frac{72}{1073}, -\frac{81}{1073}, \frac{72}{1073}, -\frac{162}{1073}, \frac{306}{1073}, -\frac{9}{1073}, \frac{144}{1073}, -\frac{90}{1073}, -\frac{90}{1073})$ $+\frac{18}{1073}\sqrt{211}e^5 \otimes e_7 - \frac{27}{1073}\sqrt{182}e^3 \otimes e_9 + \frac{9}{1073}\sqrt{1430}e^1 \otimes e_8$	{1279, 1679, 23678, 378}
941:21	$0, 0, 0, 0, 0, \frac{81}{569}e^{12}, \frac{9}{569}\sqrt{201}e^{13}, \frac{18}{569}\sqrt{67}e^{34},$ $\frac{9}{569}\sqrt{133}e^{14} + \frac{18}{569}\sqrt{34}e^{26}$	$(-\frac{81}{569}, \frac{18}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, -\frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $+\frac{135}{569}\sqrt{2}e^3 \otimes e_9 + \frac{9}{569}\sqrt{215}e^5 \otimes e_8 + \frac{9}{569}\sqrt{382}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{81}{569}e^{12}, \frac{9}{569}\sqrt{201}e^{13}, \frac{18}{569}\sqrt{67}e^{34},$ $\frac{9}{569}\sqrt{133}e^{14} + \frac{18}{569}\sqrt{34}e^{26}$	$(-\frac{81}{569}, \frac{18}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, \frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $+\frac{135}{569}\sqrt{2}e^3 \otimes e_9 + \frac{9}{569}\sqrt{215}e^5 \otimes e_8 - \frac{9}{569}\sqrt{382}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:21	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{92379}e^{12}, \frac{1}{1641}\sqrt{288638}e^{13}, \frac{2}{1641}\sqrt{40439}e^{34},$ $\frac{22}{1641}\sqrt{371}e^{14} + \frac{2}{1641}\sqrt{78281}e^{26}$	$(\frac{52}{547}, \frac{104}{1641}, -\frac{141}{547}, \frac{208}{1641}, \frac{184}{1641}, \frac{260}{1641}, -\frac{89}{547}, -\frac{215}{1641}, \frac{364}{1641})$ $+\frac{1}{1641}\sqrt{457814}e^1 \otimes e_8 + \frac{28}{1641}\sqrt{795}e^2 \otimes e_7$	{123459, 12349, 24568, 2468}
941:22	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{33}e^{12}, \frac{2}{17}\sqrt{55}e^{13}, \frac{1}{17}\sqrt{22}e^{34},$ $\frac{2}{17}\sqrt{33}e^{16} + \frac{2}{17}\sqrt{55}e^{24}$	$(\frac{4}{17}, -\frac{2}{17}, -\frac{7}{17}, \frac{8}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{6}{17})$ $+\frac{1}{17}\sqrt{330}e^4 \otimes e_7$	{1256789, 126789, 1578, 178, 23579, 2379, 3567, 367}
941:22	$0, 0, 0, 0, 0, \frac{28}{229}\sqrt{3}e^{12}, \frac{2}{229}\sqrt{2289}e^{13}, \frac{14}{229}\sqrt{15}e^{34},$ $\frac{14}{229}\sqrt{15}e^{16} + \frac{2}{229}\sqrt{2289}e^{24}$	$(-\frac{28}{229}, \frac{53}{229}, \frac{39}{229}, -\frac{56}{229}, \frac{18}{229}, \frac{25}{229}, \frac{11}{229}, -\frac{17}{229}, -\frac{3}{229})$ $+\frac{2}{229}\sqrt{1995}e^3 \otimes e_9 + \frac{4}{229}\sqrt{609}e^2 \otimes e_7$	{2589, 289, 3567, 367}
941:22	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{1}{7}\sqrt{11}e^{34},$ $\frac{2}{7}\sqrt{3}e^{16} + \frac{2}{7}\sqrt{3}e^{24}$	$(0, \frac{1}{7}, -\frac{1}{7}, 0, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{15}e^1 \otimes e_8 - \frac{1}{7}\sqrt{3}e^4 \otimes e_7$	{1234579, 123479, 134567, 13467, 2456789, 246789, 4578, 478}
941:22	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{1}{7}\sqrt{11}e^{34},$ $\frac{2}{7}\sqrt{3}e^{16} + \frac{2}{7}\sqrt{3}e^{24}$	$(0, \frac{1}{7}, -\frac{1}{7}, 0, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{15}e^1 \otimes e_8 + \frac{1}{7}\sqrt{3}e^4 \otimes e_7$	{1234579, 123479, 134567, 13467, 2456789, 246789, 4578, 478}
941:22	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{966}e^{12}, \frac{1}{359}\sqrt{19642}e^{13}, \frac{1}{359}\sqrt{6118}e^{34},$ $\frac{1}{359}\sqrt{6118}e^{16} + \frac{2}{359}\sqrt{8533}e^{24}$	$(-\frac{42}{359}, \frac{67}{359}, \frac{144}{359}, -\frac{84}{359}, -\frac{94}{359}, \frac{25}{359}, \frac{102}{359}, \frac{60}{359}, -\frac{17}{359})$ $+\frac{1}{359}\sqrt{58926}e^3 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^2 \otimes e_5$	{1279, 13568, 269, 3578}
941:22	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{11}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{2}{7}\sqrt{3}e^{34},$ $\frac{2}{7}\sqrt{3}e^{16} + \frac{2}{7}\sqrt{3}e^{24}$	$(\frac{1}{14}, 0, -\frac{3}{14}, \frac{1}{7}, \frac{1}{7}, \frac{1}{14}, -\frac{1}{7}, -\frac{1}{14}, \frac{1}{7})$ $+\frac{1}{7}\sqrt{15}e^1 \otimes e_8 + \frac{1}{7}\sqrt{3}e^2 \otimes e_7$	{1234579, 123479, 2456789, 246789}
941:22	$0, 0, 0, 0, 0, \frac{6}{505}\sqrt{43}e^{12}, \frac{1}{505}\sqrt{714}e^{13}, \frac{2}{505}\sqrt{453}e^{34},$ $\frac{8}{505}\sqrt{453}e^{16} + \frac{8}{505}\sqrt{21}e^{24}$	$(-\frac{2}{101}, \frac{24}{505}, \frac{7}{505}, -\frac{4}{101}, 0, \frac{14}{505}, -\frac{3}{505}, -\frac{13}{505}, \frac{4}{505})$ $+\frac{1}{505}\sqrt{2238}e^1 \otimes e_8 + \frac{2}{505}\sqrt{87}e^5 \otimes e_7 + \frac{6}{505}\sqrt{22}e^3 \otimes e_9$	{134567, 2456789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:22	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{105}e^{12}, \frac{8}{89}\sqrt{7}e^{13}, \frac{4}{89}\sqrt{105}e^{34},$ $\frac{4}{89}\sqrt{7}e^{16} + \frac{4}{89}\sqrt{70}e^{24}$	$(-\frac{7}{89}, \frac{34}{89}, -\frac{8}{89}, -\frac{14}{89}, \frac{41}{89}, \frac{27}{89}, -\frac{15}{89}, -\frac{22}{89}, \frac{20}{89})$ $+ \frac{16}{89}\sqrt{21}e^2 \otimes e_8 + \frac{4}{89}\sqrt{210}e^5 \otimes e_7$	{12345, 146789, 23467, 4589}
941:22	$0, 0, 0, 0, 0, \frac{24}{653}\sqrt{77}e^{12}, \frac{40}{653}\sqrt{70}e^{13}, \frac{56}{653}\sqrt{7}e^{34},$ $\frac{8}{653}\sqrt{1218}e^{16} + \frac{40}{653}\sqrt{91}e^{24}$	$(\frac{76}{653}, \frac{52}{653}, -\frac{148}{653}, \frac{152}{653}, -\frac{172}{653}, \frac{128}{653}, -\frac{72}{653}, \frac{4}{653}, \frac{204}{653})$ $+ \frac{120}{653}\sqrt{7}e^2 \otimes e_5 + \frac{40}{653}\sqrt{105}e^4 \otimes e_7$	{126789, 1578, 2379, 3567}
941:22	$0, 0, 0, 0, 0, \frac{4}{359}\sqrt{1610}e^{12}, \frac{1}{359}\sqrt{19642}e^{13}, \frac{4}{359}\sqrt{1610}e^{34},$ $\frac{8}{359}\sqrt{322}e^{16} + \frac{3}{359}\sqrt{1610}e^{24}$	$(-\frac{42}{359}, \frac{99}{359}, \frac{22}{359}, -\frac{84}{359}, \frac{176}{359}, \frac{57}{359}, \frac{20}{359}, -\frac{62}{359}, \frac{15}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^5 \otimes e_9$	{129, 135678, 2679, 358}
941:22	$0, 0, 0, 0, 0, \frac{1}{115}\sqrt{546}e^{12}, \frac{2}{115}\sqrt{546}e^{13}, \frac{3}{115}\sqrt{70}e^{34},$ $\frac{4}{115}\sqrt{42}e^{16} + \frac{2}{115}\sqrt{546}e^{24}$	$(-\frac{14}{115}, \frac{26}{115}, \frac{19}{115}, -\frac{28}{115}, \frac{12}{115}, \frac{12}{115}, \frac{1}{23}, -\frac{9}{115}, -\frac{2}{115})$ $+ \frac{1}{115}\sqrt{1974}e^3 \otimes e_9 + \frac{28}{115}\sqrt{3}e^2 \otimes e_7 + \frac{3}{115}\sqrt{14}e^5 \otimes e_8$	{289, 3567}
941:22	$0, 0, 0, 0, 0, \frac{56}{653}\sqrt{7}e^{12}, \frac{40}{653}\sqrt{70}e^{13}, \frac{8}{653}\sqrt{1218}e^{34},$ $\frac{24}{653}\sqrt{77}e^{16} + \frac{40}{653}\sqrt{91}e^{24}$	$(-\frac{49}{653}, \frac{152}{653}, -\frac{23}{653}, -\frac{98}{653}, \frac{278}{653}, \frac{103}{653}, -\frac{72}{653}, -\frac{121}{653}, \frac{54}{653})$ $+ \frac{120}{653}\sqrt{7}e^5 \otimes e_9 + \frac{40}{653}\sqrt{105}e^2 \otimes e_7$	{12369, 1578, 289, 3567}
941:22	$0, 0, 0, 0, 0, \frac{2}{875}\sqrt{25854}e^{12}, \frac{2}{125}\sqrt{417}e^{13}, \frac{2}{875}\sqrt{41978}e^{34},$ $\frac{2}{875}\sqrt{5421}e^{16} + \frac{4}{875}\sqrt{4031}e^{24}$	$(\frac{8}{875}, \frac{9}{35}, -\frac{69}{875}, \frac{16}{875}, -\frac{262}{875}, \frac{233}{875}, -\frac{61}{875}, -\frac{53}{875}, \frac{241}{875})$ $+ \frac{4}{875}\sqrt{12093}e^4 \otimes e_5 + \frac{6}{125}\sqrt{139}e^2 \otimes e_8$	{1259, 135678, 25679, 358}
941:22	$0, 0, 0, 0, 0, \frac{8}{469}\sqrt{538}e^{12}, \frac{8}{469}\sqrt{238}e^{13}, \frac{80}{469}\sqrt{5}e^{34},$ $\frac{80}{469}\sqrt{5}e^{16} + \frac{8}{469}\sqrt{438}e^{24}$	$(\frac{12}{469}, \frac{62}{469}, -\frac{76}{469}, \frac{24}{469}, -\frac{2}{469}, \frac{74}{469}, -\frac{64}{469}, -\frac{52}{469}, \frac{86}{469})$ $+ \frac{8}{469}\sqrt{114}e^2 \otimes e_5 + \frac{8}{469}\sqrt{714}e^1 \otimes e_8$	{123479, 134567, 246789, 4578}
941:22	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{273}e^{12}, \frac{5}{83}\sqrt{78}e^{13}, \frac{1}{83}\sqrt{858}e^{34},$ $\frac{2}{83}\sqrt{273}e^{16} + \frac{5}{83}\sqrt{78}e^{24}$	$(\frac{11}{83}, -\frac{3}{83}, -\frac{28}{83}, \frac{22}{83}, \frac{33}{83}, \frac{8}{83}, -\frac{17}{83}, -\frac{6}{83}, \frac{19}{83})$ $+ \frac{10}{83}\sqrt{39}e^4 \otimes e_7 + \frac{5}{83}\sqrt{78}e^5 \otimes e_8$	{125679, 157, 23789, 3678}
941:22	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{34}e^{12}, \frac{1}{53}\sqrt{374}e^{13}, \frac{4}{53}\sqrt{17}e^{34},$ $\frac{4}{53}\sqrt{17}e^{16} + \frac{6}{53}\sqrt{17}e^{24}$	$(\frac{3}{53}, \frac{9}{53}, -\frac{14}{53}, \frac{6}{53}, \frac{5}{53}, \frac{12}{53}, -\frac{11}{53}, -\frac{8}{53}, \frac{15}{53})$ $+ \frac{1}{53}\sqrt{714}e^2 \otimes e_8 + \frac{3}{53}\sqrt{102}e^4 \otimes e_7$	{125679, 12679, 35678, 3678}
941:22	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{15}e^{12}, \frac{8}{7}e^{13}, \frac{4}{21}\sqrt{15}e^{34},$ $\frac{4}{21}\sqrt{15}e^{16} + \frac{4}{7}\sqrt{2}e^{24}$	$(\frac{1}{21}, \frac{2}{21}, -\frac{4}{21}, \frac{2}{21}, 1, \frac{1}{7}, -\frac{1}{7}, -\frac{2}{21}, \frac{4}{21})$ $+ \frac{4}{7}\sqrt{6}e^5 \otimes e_7$	{123569, 126789, 135, 178, 2379, 2589, 367, 568}
941:22	$0, 0, 0, 0, 0, \frac{1}{281}\sqrt{1110}e^{12}, \frac{2}{281}\sqrt{85}e^{13}, \frac{4}{281}\sqrt{85}e^{34},$ $\frac{1}{281}\sqrt{85}e^{16} + \frac{1}{281}\sqrt{930}e^{24}$	$(-\frac{7}{281}, \frac{11}{281}, \frac{2}{281}, -\frac{14}{281}, \frac{29}{281}, \frac{4}{281}, -\frac{5}{281}, -\frac{12}{281}, -\frac{3}{281})$ $+ \frac{1}{281}\sqrt{1770}e^1 \otimes e_8 + \frac{5}{281}\sqrt{30}e^3 \otimes e_9$	{134567, 13467, 2456789, 246789}
941:22	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{41}e^{12}, \frac{10}{31}e^{13}, \frac{4}{31}\sqrt{11}e^{34},$ $\frac{2}{31}\sqrt{46}e^{16} + \frac{10}{31}\sqrt{42}e^{24}$	$(\frac{3}{62}, 0, -\frac{11}{62}, \frac{3}{31}, \frac{7}{31}, \frac{3}{62}, -\frac{4}{31}, -\frac{5}{62}, \frac{3}{31})$ $+ \frac{2}{31}\sqrt{57}e^1 \otimes e_8 + \frac{2}{31}\sqrt{6}e^5 \otimes e_9 + \frac{6}{31}e^2 \otimes e_7$	{123479, 246789}
941:22	$0, 0, 0, 0, 0, \frac{1}{359}\sqrt{966}e^{12}, \frac{4}{359}\sqrt{322}e^{13}, \frac{1}{359}\sqrt{35098}e^{34},$ $\frac{8}{359}\sqrt{322}e^{16} + \frac{4}{359}\sqrt{322}e^{24}$	$(-\frac{42}{359}, \frac{22}{359}, \frac{99}{359}, -\frac{84}{359}, \frac{176}{359}, -\frac{20}{359}, \frac{57}{359}, \frac{15}{359}, -\frac{62}{359})$ $+ \frac{1}{359}\sqrt{58926}e^3 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^5 \otimes e_8$	{12579, 1368, 2569, 378}
941:22	$0, 0, 0, 0, 0, \frac{20}{757}\sqrt{231}e^{12}, \frac{8}{757}\sqrt{2905}e^{13}, \frac{4}{757}\sqrt{1295}e^{34},$ $\frac{4}{757}\sqrt{1295}e^{16} + \frac{20}{757}\sqrt{322}e^{24}$	$(-\frac{63}{757}, \frac{2}{757}, \frac{156}{757}, -\frac{126}{757}, \frac{373}{757}, -\frac{61}{757}, \frac{93}{757}, \frac{30}{757}, -\frac{124}{757})$ $+ \frac{12}{757}\sqrt{1190}e^5 \otimes e_7 + \frac{32}{757}\sqrt{210}e^3 \otimes e_9$	{126789, 135, 2589, 367}
941:22	$0, 0, 0, 0, 0, \frac{7}{317}\sqrt{102}e^{12}, \frac{7}{317}\sqrt{34}e^{13}, \frac{34}{317}\sqrt{5}e^{34},$ $\frac{7}{317}\sqrt{102}e^{16} + \frac{12}{317}\sqrt{34}e^{24}$	$(\frac{3}{317}, \frac{29}{317}, -\frac{20}{317}, \frac{6}{317}, -\frac{37}{317}, \frac{32}{317}, -\frac{17}{317}, -\frac{14}{317}, \frac{35}{317})$ $+ \frac{12}{317}\sqrt{51}e^1 \otimes e_8 + \frac{1}{317}\sqrt{2346}e^3 \otimes e_5$	{123479, 13467, 2456789, 4578}
941:22	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{11}e^{12}, \frac{10}{31}e^{13}, \frac{2}{31}\sqrt{41}e^{34},$ $\frac{2}{31}\sqrt{46}e^{16} + \frac{2}{31}\sqrt{42}e^{24}$	$(0, \frac{3}{31}, -\frac{4}{31}, 0, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{3}{31})$ $+ \frac{2}{31}\sqrt{57}e^1 \otimes e_8 + \frac{2}{31}\sqrt{6}e^5 \otimes e_9 + \frac{6}{31}e^4 \otimes e_7$	{123479, 134567, 246789, 4578}
941:22	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{11}e^{12}, \frac{10}{31}e^{13}, \frac{2}{31}\sqrt{41}e^{34},$ $\frac{2}{31}\sqrt{46}e^{16} + \frac{2}{31}\sqrt{42}e^{24}$	$(0, \frac{3}{31}, -\frac{4}{31}, 0, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{3}{31})$ $+ \frac{2}{31}\sqrt{57}e^1 \otimes e_8 + \frac{2}{31}\sqrt{6}e^5 \otimes e_9 - \frac{6}{31}e^4 \otimes e_7$	{123479, 134567, 246789, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:22	$0, 0, 0, 0, 0, \frac{6}{419}\sqrt{119e^{12}}, \frac{2}{419}\sqrt{1717e^{13}}, \frac{1}{419}\sqrt{170e^{34}},$ $\frac{2}{419}\sqrt{561e^{16}} + \frac{2}{419}\sqrt{1717e^{24}}$	$(\frac{16}{419}, -\frac{50}{419}, -\frac{1}{419}, \frac{32}{419}, \frac{26}{419}, -\frac{34}{419}, \frac{15}{419}, \frac{31}{419}, -\frac{18}{419})$ $+ \frac{1}{419}\sqrt{7242e^4} \otimes e_7 + \frac{6}{419}\sqrt{170e^3} \otimes e_9$	{125679, 12679, 35678, 3678}
941:22	$0, 0, 0, 0, 0, \frac{4}{367}\sqrt{249e^{12}}, \frac{16}{367}\sqrt{166e^{13}}, \frac{2}{367}\sqrt{581e^{34}},$ $\frac{4}{367}\sqrt{249e^{16}} + \frac{166}{367}e^{24}$	$(\frac{71}{367}, -\frac{31}{367}, -\frac{95}{367}, \frac{142}{367}, -\frac{95}{367}, \frac{40}{367}, -\frac{24}{367}, \frac{47}{367}, \frac{111}{367})$ $+ \frac{16}{367}\sqrt{249e^4} \otimes e_7 + \frac{6}{367}\sqrt{1245e^1} \otimes e_5$	{12679, 17, 235789, 35678}
941:22	$0, 0, 0, 0, 0, \frac{8}{653}\sqrt{1218e^{12}}, \frac{40}{653}\sqrt{70e^{13}}, \frac{56}{653}\sqrt{7e^{34}},$ $\frac{8}{653}\sqrt{77e^{16}} + \frac{40}{653}\sqrt{91e^{24}}$	$(\frac{76}{653}, -\frac{98}{653}, -\frac{148}{653}, \frac{152}{653}, \frac{278}{653}, -\frac{22}{653}, -\frac{72}{653}, \frac{4}{653}, \frac{54}{653})$ $+ \frac{120}{653}\sqrt{7e^5} \otimes e_9 + \frac{40}{653}\sqrt{105e^4} \otimes e_7$	{126789, 1578, 2379, 3567}
941:22	$0, 0, 0, 0, 0, \frac{56}{653}\sqrt{7e^{12}}, \frac{40}{653}\sqrt{91e^{13}}, \frac{24}{653}\sqrt{77e^{34}},$ $\frac{8}{653}\sqrt{1218e^{16}} + \frac{40}{653}\sqrt{70e^{24}}$	$(-\frac{49}{653}, \frac{227}{653}, \frac{52}{653}, -\frac{98}{653}, -\frac{172}{653}, \frac{178}{653}, \frac{3}{653}, -\frac{46}{653}, \frac{129}{653})$ $+ \frac{120}{653}\sqrt{7e^3} \otimes e_5 + \frac{40}{653}\sqrt{105e^2} \otimes e_7$	{12369, 1578, 2589, 367}
941:22	$0, 0, 0, 0, 0, \frac{80}{469}\sqrt{5e^{12}}, \frac{8}{469}\sqrt{238e^{13}}, \frac{8}{469}\sqrt{538e^{34}},$ $\frac{80}{469}\sqrt{5e^{16}} + \frac{8}{469}\sqrt{438e^{24}}$	$(\frac{31}{469}, \frac{24}{469}, -\frac{95}{469}, \frac{62}{469}, -\frac{2}{469}, \frac{55}{469}, -\frac{64}{469}, -\frac{33}{469}, \frac{86}{469})$ $+ \frac{8}{469}\sqrt{114e^4} \otimes e_5 + \frac{8}{469}\sqrt{714e^1} \otimes e_8$	{123479, 13467, 246789, 478}
941:22	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{1133e^{12}}, \frac{5}{91}\sqrt{206e^{13}}, \frac{1}{91}\sqrt{9682e^{34}},$ $\frac{2}{91}\sqrt{1133e^{16}} + \frac{5}{91}\sqrt{206e^{24}}$	$(-\frac{3}{91}, \frac{19}{91}, -\frac{6}{91}, -\frac{6}{91}, \frac{1}{91}, \frac{16}{91}, -\frac{9}{91}, -\frac{12}{91}, \frac{1}{7})$ $+ \frac{5}{91}\sqrt{618e^5} \otimes e_8$	{1234579, 12489, 134567, 1468, 234569, 246789, 345, 478}
941:22	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{58e^{12}}, \frac{2}{155}\sqrt{210e^{13}}, \frac{2}{155}\sqrt{15e^{34}},$ $\frac{2}{155}\sqrt{66e^{16}} + \frac{2}{155}\sqrt{210e^{24}}$	$(\frac{1}{31}, -\frac{17}{155}, -\frac{1}{155}, \frac{2}{31}, \frac{3}{31}, -\frac{12}{155}, \frac{4}{155}, \frac{9}{155}, -\frac{7}{155})$ $+ \frac{1}{155}\sqrt{66e^5} \otimes e_8 + \frac{1}{155}\sqrt{906e^4} \otimes e_7 + \frac{3}{155}\sqrt{86e^3} \otimes e_9$	{125679, 3678}
941:22	$0, 0, 0, 0, 0, \frac{28}{337}\sqrt{2e^{12}}, \frac{70}{337}\sqrt{10e^{13}}, \frac{28}{337}\sqrt{23e^{34}},$ $\frac{14}{337}\sqrt{142e^{16}} + \frac{70}{337}\sqrt{10e^{24}}$	$(-\frac{21}{337}, \frac{133}{337}, -\frac{42}{337}, -\frac{42}{337}, \frac{112}{337}, \frac{112}{337}, -\frac{63}{337}, -\frac{84}{337}, \frac{91}{337})$ $+ \frac{210}{337}\sqrt{2e^2} \otimes e_7 + \frac{70}{337}\sqrt{6e^5} \otimes e_8$	{12348, 145679, 2456, 34789}
941:22	$0, 0, 0, 0, 0, \frac{80}{469}\sqrt{5e^{12}}, \frac{8}{469}\sqrt{238e^{13}}, \frac{80}{469}\sqrt{5e^{34}},$ $\frac{8}{469}\sqrt{538e^{16}} + \frac{8}{469}\sqrt{438e^{24}}$	$(\frac{12}{469}, \frac{24}{469}, -\frac{76}{469}, \frac{24}{469}, \frac{16}{67}, \frac{36}{469}, -\frac{64}{469}, -\frac{52}{469}, \frac{48}{469})$ $+ \frac{8}{469}\sqrt{114e^5} \otimes e_9 + \frac{8}{469}\sqrt{714e^1} \otimes e_8$	{123479, 134567, 246789, 4578}
941:22	$0, 0, 0, 0, 0, \frac{12}{875}\sqrt{417e^{12}}, \frac{2}{125}\sqrt{417e^{13}}, \frac{2}{875}\sqrt{21545e^{34}},$ $\frac{2}{875}\sqrt{5421e^{16}} + \frac{2}{875}\sqrt{36557e^{24}}$	$(\frac{8}{875}, -\frac{69}{875}, \frac{9}{35}, \frac{16}{875}, -\frac{262}{875}, -\frac{61}{875}, \frac{233}{875}, \frac{241}{875}, -\frac{53}{875})$ $+ \frac{4}{875}\sqrt{12093e^4} \otimes e_5 + \frac{6}{125}\sqrt{139e^3} \otimes e_9$	{12346, 14789, 2347, 4689}
941:22	$0, 0, 0, 0, 0, \frac{56}{653}\sqrt{7e^{12}}, \frac{40}{653}\sqrt{70e^{13}}, \frac{24}{653}\sqrt{77e^{34}},$ $\frac{8}{653}\sqrt{1218e^{16}} + \frac{40}{653}\sqrt{91e^{24}}$	$(\frac{26}{653}, \frac{152}{653}, -\frac{98}{653}, \frac{52}{653}, -\frac{172}{653}, \frac{178}{653}, -\frac{72}{653}, -\frac{46}{653}, \frac{204}{653})$ $+ \frac{120}{653}\sqrt{7e^4} \otimes e_5 + \frac{40}{653}\sqrt{105e^2} \otimes e_7$	{123569, 1578, 2589, 3567}
941:22	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{6e^{12}}, \frac{1}{7}\sqrt{6e^{13}}, \frac{4}{21}\sqrt{6e^{34}},$ $\frac{4}{21}\sqrt{6e^{16}} + \frac{1}{7}\sqrt{10e^{24}}$	$(\frac{1}{21}, \frac{2}{21}, -\frac{4}{21}, \frac{2}{21}, 0, \frac{1}{7}, -\frac{1}{7}, -\frac{2}{21}, \frac{4}{21})$ $+ \frac{1}{7}\sqrt{14e^1} \otimes e_8 + \frac{1}{7}\sqrt{2e^5} \otimes e_7$	{1234579, 134567, 2456789, 4578}
941:22	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{133e^{12}}, \frac{1}{44}\sqrt{182e^{13}}, \frac{5}{44}\sqrt{14e^{34}},$ $\frac{5}{44}\sqrt{14e^{16}} + \frac{1}{44}\sqrt{182e^{24}}$	$(-\frac{1}{88}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{44}, -\frac{29}{88}, \frac{23}{88}, -\frac{3}{88}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{44}\sqrt{546e^1} \otimes e_5 + \frac{1}{44}\sqrt{546e^2} \otimes e_8$	{123479, 1468, 234569, 4578}
941:22	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{114e^{12}}, \frac{2}{47}\sqrt{247e^{13}}, \frac{2}{47}\sqrt{133e^{34}},$ $\frac{2}{47}\sqrt{133e^{16}} + \frac{2}{47}\sqrt{247e^{24}}$	$(-\frac{6}{47}, \frac{1}{47}, \frac{27}{47}, -\frac{12}{47}, \frac{8}{47}, -\frac{5}{47}, \frac{21}{47}, \frac{15}{47}, -\frac{11}{47})$ $+ \frac{2}{47}\sqrt{741e^3} \otimes e_9$	{123456, 12346, 145789, 14789, 23457, 2347, 45689, 4689}
941:22	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{435e^{12}}, \frac{3}{31}\sqrt{10e^{13}}, \frac{2}{93}\sqrt{435e^{34}},$ $\frac{2}{93}\sqrt{435e^{16}} + \frac{6}{31}\sqrt{5e^{24}}$	$(\frac{4}{93}, \frac{8}{93}, -\frac{19}{93}, \frac{8}{93}, \frac{4}{31}, \frac{4}{31}, -\frac{5}{31}, -\frac{11}{93}, \frac{16}{93})$ $+ \frac{3}{31}\sqrt{30e^1} \otimes e_8$	{1234579, 123479, 134567, 13467, 2456789, 246789, 4578, 478}
941:22	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{22e^{12}}, \frac{2}{17}\sqrt{55e^{13}}, \frac{2}{17}\sqrt{33e^{34}},$ $\frac{2}{17}\sqrt{33e^{16}} + \frac{2}{17}\sqrt{55e^{24}}$	$(-\frac{1}{17}, \frac{8}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{7}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{6}{17})$ $+ \frac{1}{17}\sqrt{330e^2} \otimes e_7$	{123569, 12369, 1578, 178, 2589, 289, 3567, 367}
941:22	$0, 0, 0, 0, 0, \frac{6}{401}\sqrt{498e^{12}}, \frac{20}{401}\sqrt{83e^{13}}, \frac{1}{401}\sqrt{2822e^{34}},$ $\frac{6}{401}\sqrt{498e^{16}} + \frac{10}{401}\sqrt{249e^{24}}$	$(\frac{42}{401}, -\frac{16}{401}, -\frac{41}{401}, \frac{84}{401}, -\frac{124}{401}, \frac{26}{401}, \frac{1}{401}, \frac{43}{401}, \frac{68}{401})$ $+ \frac{10}{401}\sqrt{249e^3} \otimes e_5 + \frac{15}{401}\sqrt{166e^4} \otimes e_7$	{125679, 157, 23789, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:22	$0, 0, 0, 0, 0, \frac{26}{1697}\sqrt{85}e^{12}, \frac{26}{1697}\sqrt{287}e^{13}, \frac{52}{1697}\sqrt{35}e^{34},$ $\frac{26}{1697}\sqrt{113}e^{16} + \frac{78}{1697}\sqrt{65}e^{24}$	$(\frac{39}{1697}, \frac{117}{1697}, -\frac{299}{1697}, \frac{78}{1697}, \frac{533}{1697}, \frac{156}{1697}, -\frac{260}{1697}, -\frac{221}{1697}, \frac{195}{1697})$ $+ \frac{234}{1697}\sqrt{5}e^5 \otimes e_9 + \frac{26}{1697}\sqrt{489}e^2 \otimes e_8 + \frac{390}{1697}\sqrt{3}e^4 \otimes e_7$	{12679, 35678}
941:22	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{17}e^{12}, \frac{6}{53}\sqrt{17}e^{13}, \frac{53}{4}\sqrt{17}e^{34},$ $\frac{1}{53}\sqrt{34}e^{16} + \frac{1}{53}\sqrt{374}e^{24}$	$(\frac{1}{53}, \frac{13}{53}, -\frac{5}{53}, \frac{2}{53}, -\frac{16}{53}, \frac{14}{53}, -\frac{4}{53}, -\frac{3}{53}, \frac{15}{53})$ $+ \frac{1}{53}\sqrt{714}e^1 \otimes e_5 + \frac{3}{53}\sqrt{102}e^2 \otimes e_7$	{12348, 14679, 2456, 345789}
941:23	$0, 0, 0, 0, 0, \frac{3}{209}\sqrt{1315}e^{12}, \frac{1}{418}\sqrt{1578}e^{13}, \frac{1}{209}\sqrt{9994}e^{34},$ $\frac{3}{418}\sqrt{263}e^{16} + \frac{1}{209}\sqrt{5523}e^{35}$	$(-\frac{39}{418}, \frac{177}{418}, \frac{177}{836}, -\frac{349}{836}, \frac{21}{836}, \frac{69}{836}, \frac{9}{209}, -\frac{43}{209}, \frac{9}{38})$ $+ \frac{1}{418}\sqrt{112827}e^2 \otimes e_8 + \frac{1}{418}\sqrt{79426}e^3 \otimes e_4$	{135678, 1468, 358, 478}
941:23	$0, 0, 0, 0, 0, \frac{1}{794}\sqrt{111890}e^{12}, \frac{2}{397}\sqrt{670}e^{13}, \frac{1}{794}\sqrt{200330}e^{34},$ $\frac{25}{794}\sqrt{67}e^{16} + \frac{1}{794}\sqrt{58290}e^{35}$	$(-\frac{129}{794}, \frac{159}{397}, -\frac{223}{1588}, \frac{189}{1588}, \frac{343}{1588}, \frac{189}{794}, -\frac{481}{1588}, -\frac{17}{794}, \frac{30}{397})$ $+ \frac{1}{794}\sqrt{207030}e^4 \otimes e_7 + \frac{3}{794}\sqrt{29815}e^2 \otimes e_8$	{13678, 14568, 234569, 2679}
941:23	$0, 0, 0, 0, 0, \frac{15}{353}\sqrt{22}e^{12}, \frac{10}{353}\sqrt{33}e^{13}, \frac{5}{353}\sqrt{326}e^{34},$ $\frac{3}{353}\sqrt{326}e^{16} + \frac{5}{353}\sqrt{66}e^{35}$	$(\frac{35}{353}, -\frac{60}{353}, -\frac{25}{353}, \frac{35}{353}, \frac{35}{353}, -\frac{25}{353}, \frac{10}{353}, \frac{10}{353}, \frac{10}{353})$ $+ \frac{40}{353}\sqrt{6}e^1 \otimes e_8 + \frac{5}{353}\sqrt{318}e^4 \otimes e_9 + \frac{5}{353}\sqrt{74}e^5 \otimes e_7$	{129, 4578}
941:23	$0, 0, 0, 0, 0, \frac{3}{142}\sqrt{119}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{6}{71}\sqrt{42}e^{34},$ $\frac{3}{142}\sqrt{434}e^{16} + \frac{21}{142}\sqrt{2}e^{35}$	$(-\frac{7}{71}, \frac{4}{71}, \frac{43}{284}, \frac{43}{142}, -\frac{83}{284}, -\frac{3}{71}, \frac{15}{284}, \frac{129}{284}, -\frac{10}{71})$ $+ \frac{3}{142}\sqrt{1043}e^4 \otimes e_9 + \frac{3}{142}\sqrt{714}e^3 \otimes e_5$	{123789, 1259, 23689, 25679}
941:23	$0, 0, 0, 0, 0, \frac{3}{209}\sqrt{1315}e^{12}, \frac{1}{418}\sqrt{1578}e^{13}, \frac{1}{209}\sqrt{9994}e^{34},$ $\frac{3}{418}\sqrt{263}e^{16} + \frac{1}{209}\sqrt{5523}e^{35}$	$(-\frac{39}{418}, \frac{177}{418}, -\frac{125}{836}, -\frac{47}{836}, \frac{17}{44}, \frac{69}{209}, -\frac{203}{836}, -\frac{43}{209}, \frac{9}{38})$ $+ \frac{1}{418}\sqrt{112827}e^2 \otimes e_8 + \frac{1}{418}\sqrt{79426}e^5 \otimes e_7$	{123479, 1259, 358, 478}
941:23	$0, 0, 0, 0, 0, \frac{2}{317}\sqrt{17018}e^{12}, \frac{2}{317}\sqrt{10795}e^{13}, \frac{4}{317}\sqrt{4445}e^{34},$ $\frac{4}{317}\sqrt{1651}e^{16} + \frac{6}{317}\sqrt{254}e^{35}$	$(-\frac{48}{317}, \frac{183}{317}, \frac{16}{317}, -\frac{87}{317}, \frac{71}{317}, \frac{135}{317}, -\frac{32}{317}, -\frac{71}{317}, \frac{87}{317})$ $+ \frac{4}{317}\sqrt{8382}e^2 \otimes e_8$	{1234579, 129, 13678, 14568, 234569, 2679, 38, 4578}
941:23	$0, 0, 0, 0, 0, \frac{1}{433}\sqrt{63662}e^{12}, \frac{4}{433}\sqrt{458}e^{13}, \frac{3}{433}\sqrt{8702}e^{34},$ $\frac{3}{433}\sqrt{8702}e^{16} + \frac{8}{433}\sqrt{687}e^{35}$	$(\frac{107}{433}, -\frac{69}{433}, -\frac{21}{433}, -\frac{101}{433}, \frac{166}{433}, \frac{38}{433}, \frac{86}{433}, -\frac{122}{433}, \frac{145}{433})$ $+ \frac{11}{433}\sqrt{1374}e^1 \otimes e_8$	{123459, 1279, 1346, 1567, 2356789, 24689, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{2}{983}\sqrt{51645}e^{12}, \frac{2}{983}\sqrt{12833}e^{13}, \frac{2}{983}\sqrt{40377}e^{34},$ $\frac{4}{983}\sqrt{1565}e^{16} + \frac{2}{983}\sqrt{43507}e^{35}$	$(-\frac{66}{983}, \frac{371}{983}, -\frac{189}{983}, -\frac{9}{983}, \frac{428}{983}, \frac{305}{983}, -\frac{255}{983}, -\frac{198}{983}, \frac{239}{983})$ $+ \frac{2}{983}\sqrt{13991}e^5 \otimes e_8 + \frac{8}{983}\sqrt{8138}e^2 \otimes e_7$	{12345, 15679, 2468, 3789}
941:23	$0, 0, 0, 0, 0, \frac{46}{3101}\sqrt{498}e^{12}, \frac{46}{3101}\sqrt{582}e^{13}, \frac{115}{3101}\sqrt{118}e^{34},$ $\frac{115}{3101}\sqrt{78}e^{16} + \frac{23}{3101}\sqrt{210}e^{35}$	$(-\frac{69}{443}, \frac{828}{3101}, -\frac{92}{3101}, \frac{391}{3101}, -\frac{46}{3101}, \frac{345}{3101}, -\frac{575}{3101}, \frac{299}{3101}, -\frac{138}{3101})$ $+ \frac{230}{3101}\sqrt{30}e^2 \otimes e_8 + \frac{23}{3101}\sqrt{530}e^5 \otimes e_7 + \frac{46}{3101}\sqrt{771}e^4 \otimes e_9$	{1468, 25679}
941:23	$0, 0, 0, 0, 0, \frac{2}{385}\sqrt{5835}e^{12}, \frac{12}{385}\sqrt{778}e^{13}, \frac{1}{385}\sqrt{56794}e^{34},$ $\frac{2}{385}\sqrt{56794}e^{16} + \frac{1}{385}\sqrt{100362}e^{35}$	$(\frac{13}{385}, \frac{12}{55}, -\frac{146}{385}, \frac{127}{385}, \frac{256}{385}, \frac{97}{385}, -\frac{19}{55}, -\frac{19}{385}, \frac{2}{7})$ $+ \frac{1}{385}\sqrt{257518}e^5 \otimes e_7$	{13458, 135, 147, 178, 234789, 2379, 2459, 2589}
941:23	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{3182}e^{12}, \frac{2}{223}\sqrt{731}e^{13}, \frac{1}{223}\sqrt{6794}e^{34},$ $\frac{1}{223}\sqrt{4558}e^{16} + \frac{4}{223}\sqrt{258}e^{35}$	$(\frac{21}{223}, -\frac{15}{223}, \frac{35}{223}, -\frac{57}{223}, -\frac{8}{223}, \frac{6}{223}, \frac{56}{223}, -\frac{22}{223}, \frac{27}{223})$ $+ \frac{1}{223}\sqrt{10578}e^1 \otimes e_8 + \frac{2}{223}\sqrt{1677}e^3 \otimes e_5$	{1346, 1567, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{3}{142}\sqrt{119}e^{12}, \frac{9}{142}\sqrt{14}e^{13}, \frac{3}{142}\sqrt{434}e^{34},$ $\frac{6}{71}\sqrt{42}e^{16} + \frac{21}{142}\sqrt{2}e^{35}$	$(\frac{10}{71}, -\frac{43}{142}, -\frac{25}{284}, \frac{30}{71}, \frac{19}{284}, -\frac{23}{142}, \frac{15}{284}, \frac{95}{284}, -\frac{3}{142})$ $+ \frac{3}{142}\sqrt{1043}e^4 \otimes e_9 + \frac{3}{142}\sqrt{714}e^1 \otimes e_2$	{134567, 1468, 23689, 25679}
941:23	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{10230}e^{12}, \frac{2}{137}\sqrt{2945}e^{13}, \frac{2}{137}\sqrt{310}e^{34},$ $\frac{2}{137}\sqrt{310}e^{16} + \frac{2}{137}\sqrt{155}e^{35}$	$(-\frac{43}{137}, \frac{104}{137}, -\frac{8}{137}, \frac{28}{137}, \frac{26}{137}, \frac{61}{137}, -\frac{51}{137}, \frac{20}{137}, \frac{18}{137})$ $+ \frac{1}{137}\sqrt{35030}e^2 \otimes e_7$	{123, 12348, 14679, 16789, 2456, 2568, 345789, 3579}
941:23	$0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577}e^{12}, \frac{2}{157}\sqrt{2407}e^{13}, \frac{2}{157}\sqrt{3901}e^{34},$ $\frac{4}{157}\sqrt{83}e^{16} + \frac{6}{157}\sqrt{415}e^{35}$	$(\frac{34}{157}, \frac{9}{157}, -\frac{35}{157}, -\frac{19}{157}, \frac{112}{157}, \frac{43}{157}, -\frac{1}{157}, -\frac{54}{157}, \frac{77}{157})$ $+ \frac{2}{157}\sqrt{10707}e^5 \otimes e_8$	{123789, 1259, 134567, 1468, 23689, 25679, 345, 478}
941:23	$0, 0, 0, 0, 0, \frac{2}{107}\sqrt{663}e^{12}, \frac{6}{107}\sqrt{143}e^{13}, \frac{4}{107}\sqrt{390}e^{34},$ $\frac{4}{107}\sqrt{390}e^{16} + \frac{4}{107}\sqrt{195}e^{35}$	$(-\frac{6}{107}, \frac{1}{107}, -\frac{9}{107}, \frac{67}{107}, -\frac{2}{107}, -\frac{5}{107}, -\frac{15}{107}, \frac{58}{107}, -\frac{11}{107})$ $+ \frac{2}{107}\sqrt{3471}e^4 \otimes e_9$	{123789, 1259, 134567, 1468, 23689, 25679, 345, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:23	$0, 0, 0, 0, 0, \frac{46}{1609}\sqrt{43}e^{12}, \frac{46}{1609}\sqrt{167}e^{13}, \frac{230}{1609}e^{34},$ $\frac{115}{1609}\sqrt{15}e^{16} + \frac{46}{1609}\sqrt{173}e^{35}$	$(-\frac{115}{1609}, \frac{506}{1609}, \frac{92}{1609}, -\frac{437}{1609}, \frac{184}{1609}, \frac{391}{1609}, -\frac{23}{1609}, -\frac{345}{1609}, \frac{276}{1609})$ $+ \frac{115}{1609}\sqrt{33}e^5 \otimes e_8 + \frac{23}{1609}\sqrt{1209}e^3 \otimes e_4 + \frac{23}{1609}\sqrt{949}e^2 \otimes e_7$	{1235, 145679}
941:23	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{1}{1211}\sqrt{2638}e^{34},$ $\frac{26}{1211}\sqrt{1319}e^{16} + \frac{4}{1211}\sqrt{27699}e^{35}$	$(\frac{563}{1211}, -\frac{108}{173}, \frac{2}{1211}, \frac{199}{1211}, \frac{368}{1211}, -\frac{193}{1211}, \frac{565}{1211}, \frac{201}{1211}, \frac{370}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^1 \otimes e_2$	{13459, 13589, 14789, 179, 2347, 2378, 2458, 25}
941:23	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{26}{1211}\sqrt{1319}e^{34},$ $\frac{1}{1211}\sqrt{2638}e^{16} + \frac{4}{1211}\sqrt{27699}e^{35}$	$(-\frac{111}{1211}, \frac{255}{1211}, \frac{676}{1211}, \frac{138}{1211}, -\frac{643}{1211}, \frac{144}{1211}, \frac{565}{1211}, \frac{538}{1211}, \frac{33}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_5$	{12346, 12368, 1245678, 12567, 2347, 2378, 2458, 25}
941:23	$0, 0, 0, 0, 0, \frac{105}{1949}\sqrt{10}e^{12}, \frac{15}{1949}\sqrt{1598}e^{13}, \frac{15}{1949}\sqrt{818}e^{34},$ $\frac{30}{1949}\sqrt{143}e^{16} + \frac{30}{1949}\sqrt{246}e^{35}$	$(\frac{165}{1949}, -\frac{60}{1949}, -\frac{60}{1949}, -\frac{285}{1949}, \frac{330}{1949}, \frac{105}{1949}, \frac{105}{1949}, -\frac{345}{1949}, \frac{270}{1949})$ $+ \frac{30}{1949}\sqrt{379}e^3 \otimes e_4 - \frac{30}{1949}\sqrt{379}e^5 \otimes e_7 + \frac{45}{1949}\sqrt{82}e^1 \otimes e_2$	{135, 147, 2379, 2459}
941:23	$0, 0, 0, 0, 0, \frac{105}{1949}\sqrt{10}e^{12}, \frac{15}{1949}\sqrt{1598}e^{13}, \frac{15}{1949}\sqrt{818}e^{34},$ $\frac{30}{1949}\sqrt{143}e^{16} + \frac{30}{1949}\sqrt{246}e^{35}$	$(\frac{165}{1949}, -\frac{60}{1949}, -\frac{60}{1949}, -\frac{285}{1949}, \frac{330}{1949}, \frac{105}{1949}, \frac{105}{1949}, -\frac{345}{1949}, \frac{270}{1949})$ $+ \frac{30}{1949}\sqrt{379}e^3 \otimes e_4 + \frac{30}{1949}\sqrt{379}e^5 \otimes e_7 + \frac{45}{1949}\sqrt{82}e^1 \otimes e_2$	{135, 147, 2379, 2459}
941:23	$0, 0, 0, 0, 0, \frac{1}{794}\sqrt{111890}e^{12}, \frac{2}{397}\sqrt{670}e^{13}, \frac{1}{794}\sqrt{200330}e^{34},$ $\frac{25}{794}\sqrt{67}e^{16} + \frac{1}{794}\sqrt{58290}e^{35}$	$(-\frac{129}{794}, \frac{159}{397}, \frac{395}{1588}, -\frac{429}{1588}, -\frac{275}{1588}, \frac{189}{794}, \frac{137}{1588}, -\frac{17}{794}, \frac{30}{397})$ $+ \frac{1}{794}\sqrt{207030}e^3 \otimes e_5 + \frac{3}{794}\sqrt{29815}e^2 \otimes e_8$	{13678, 14568, 38, 4578}
941:23	$0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{2}{787}\sqrt{16555}e^{13}, \frac{8}{787}\sqrt{2365}e^{34},$ $\frac{8}{787}\sqrt{2365}e^{16} + \frac{4}{787}\sqrt{4730}e^{35}$	$(-\frac{138}{787}, \frac{209}{787}, -\frac{83}{787}, \frac{363}{787}, \frac{16}{787}, \frac{71}{787}, -\frac{221}{787}, \frac{280}{787}, -\frac{67}{787})$ $+ \frac{10}{787}\sqrt{3741}e^4 \otimes e_9 + \frac{4}{787}\sqrt{13330}e^2 \otimes e_7$	{1259, 134567, 23689, 478}
941:23	$0, 0, 0, 0, 0, \frac{3}{179}\sqrt{182}e^{12}, \frac{2}{179}\sqrt{273}e^{13}, \frac{5}{179}\sqrt{182}e^{34},$ $\frac{9}{179}\sqrt{182}e^{16} + \frac{3}{179}\sqrt{910}e^{35}$	$(-\frac{7}{179}, \frac{12}{179}, -\frac{43}{179}, \frac{89}{179}, \frac{41}{179}, \frac{5}{179}, -\frac{50}{179}, \frac{46}{179}, -\frac{2}{179})$ $+ \frac{13}{179}\sqrt{70}e^5 \otimes e_7 + \frac{1}{179}\sqrt{16926}e^4 \otimes e_9$	{123789, 1259, 345, 478}
941:23	$0, 0, 0, 0, 0, \frac{7}{325}\sqrt{62}e^{12}, \frac{1}{325}\sqrt{8246}e^{13}, \frac{1}{325}\sqrt{20398}e^{34},$ $\frac{3}{325}\sqrt{4991}e^{16} + \frac{4}{325}\sqrt{651}e^{35}$	$(\frac{109}{325}, -\frac{108}{325}, -\frac{2}{13}, -\frac{7}{325}, \frac{32}{65}, \frac{1}{325}, \frac{59}{325}, -\frac{57}{325}, \frac{22}{65})$ $+ \frac{12}{325}\sqrt{434}e^5 \otimes e_8 + \frac{3}{325}\sqrt{61194}e^1 \otimes e_2$	{13456, 14678, 236789, 2569}
941:23	$0, 0, 0, 0, 0, \frac{3}{172}\sqrt{154}e^{12}, \frac{3}{344}\sqrt{2030}e^{13}, \frac{3}{344}\sqrt{1190}e^{34},$ $\frac{3}{344}\sqrt{1190}e^{16} + \frac{3}{344}\sqrt{1722}e^{35}$	$(-\frac{3}{344}, \frac{57}{344}, -\frac{9}{688}, -\frac{135}{688}, \frac{111}{688}, \frac{27}{172}, -\frac{15}{688}, -\frac{9}{43}, \frac{51}{344})$ $+ \frac{3}{344}\sqrt{2317}e^3 \otimes e_4 + \frac{3}{344}\sqrt{2317}e^5 \otimes e_7$	{135, 147, 2379, 2459}
941:23	$0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13}, \frac{26}{1211}\sqrt{1319}e^{34},$ $\frac{1}{1211}\sqrt{2638}e^{16} + \frac{4}{1211}\sqrt{27699}e^{35}$	$(-\frac{111}{1211}, \frac{255}{1211}, -\frac{335}{1211}, \frac{873}{1211}, \frac{368}{1211}, \frac{144}{1211}, -\frac{446}{1211}, \frac{538}{1211}, \frac{33}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^4 \otimes e_7$	{12346, 12567, 13459, 179, 2378, 2458, 356789, 4689}
941:23	$0, 0, 0, 0, 0, \frac{94}{6261}\sqrt{115}e^{12}, \frac{47}{6261}\sqrt{2390}e^{13}, \frac{94}{6261}\sqrt{562}e^{34},$ $\frac{94}{6261}\sqrt{255}e^{16} + \frac{47}{6261}\sqrt{526}e^{35}$	$(\frac{329}{2087}, -\frac{1222}{6261}, -\frac{517}{2087}, \frac{1645}{6261}, \frac{2303}{6261}, -\frac{235}{6261}, -\frac{188}{2087}, \frac{94}{6261}, \frac{752}{6261})$ $+ \frac{188}{6261}\sqrt{283}e^4 \otimes e_7 + \frac{47}{6261}\sqrt{3070}e^5 \otimes e_8 + \frac{47}{6261}\sqrt{3914}e^1 \otimes e_2$	{13459, 2378}
941:23	$0, 0, 0, 0, 0, \frac{2}{3701}\sqrt{342042}e^{12}, \frac{6}{3701}\sqrt{41747}e^{13}, \frac{4}{3701}\sqrt{125895}e^{34},$ $\frac{20}{3701}\sqrt{3270}e^{16} + \frac{2}{3701}\sqrt{75210}e^{35}$	$(-\frac{528}{3701}, \frac{943}{3701}, -\frac{252}{3701}, \frac{541}{3701}, \frac{139}{3701}, \frac{415}{3701}, -\frac{780}{3701}, \frac{289}{3701}, -\frac{113}{3701})$ $+ \frac{36}{3701}\sqrt{1635}e^2 \otimes e_8 + \frac{8}{3701}\sqrt{34989}e^4 \otimes e_9$	{1259, 1468, 25679, 478}
941:23	$0, 0, 0, 0, 0, \frac{3}{148}\sqrt{33}e^{12}, \frac{3}{148}\sqrt{390}e^{13}, \frac{3}{148}\sqrt{246}e^{34},$ $\frac{3}{148}\sqrt{246}e^{16} + \frac{9}{148}\sqrt{38}e^{35}$	$(-\frac{3}{148}, \frac{27}{148}, -\frac{3}{296}, -\frac{57}{296}, \frac{45}{296}, \frac{6}{37}, -\frac{9}{94}, -\frac{15}{74}, \frac{21}{148})$ $+ \frac{3}{148}\sqrt{447}e^3 \otimes e_4 + \frac{3}{148}\sqrt{447}e^5 \otimes e_7 + \frac{9}{74}e^1 \otimes e_8$	{2379, 2459}
941:23	$0, 0, 0, 0, 0, \frac{2}{385}\sqrt{5835}e^{12}, \frac{12}{385}\sqrt{778}e^{13}, \frac{1}{385}\sqrt{56794}e^{34},$ $\frac{1}{385}\sqrt{56794}e^{16} + \frac{1}{385}\sqrt{100362}e^{35}$	$(\frac{13}{385}, \frac{12}{55}, \frac{37}{77}, -\frac{204}{385}, -\frac{15}{77}, \frac{97}{385}, \frac{18}{35}, -\frac{19}{385}, \frac{2}{7})$ $+ \frac{1}{385}\sqrt{257518}e^3 \otimes e_4$	{12369, 1245679, 135, 147, 2379, 2459, 3567, 46}
941:23	$0, 0, 0, 0, 0, \frac{63}{1105}\sqrt{10}e^{12}, \frac{9}{1105}\sqrt{2310}e^{13}, \frac{9}{1105}\sqrt{170}e^{34},$ $\frac{18}{221}e^{16} + \frac{126}{1105}\sqrt{10}e^{35}$	$(\frac{45}{221}, -\frac{36}{221}, \frac{18}{221}, -\frac{63}{221}, \frac{36}{221}, \frac{9}{221}, \frac{63}{221}, -\frac{45}{221}, \frac{54}{221})$ $+ \frac{18}{1105}\sqrt{730}e^5 \otimes e_8 + \frac{72}{1105}\sqrt{65}e^3 \otimes e_4 + \frac{9}{1105}\sqrt{3130}e^1 \otimes e_2$	{135, 2459}
941:23	$0, 0, 0, 0, 0, \frac{2}{1171}\sqrt{15517}e^{12}, \frac{2}{1171}\sqrt{110723}e^{13}, \frac{10}{1171}\sqrt{1841}e^{34},$ $\frac{10}{1171}\sqrt{1841}e^{16} + \frac{2}{1171}\sqrt{52337}e^{35}$	$(-\frac{210}{1171}, \frac{539}{1171}, \frac{223}{1171}, -\frac{303}{1171}, -\frac{104}{1171}, \frac{329}{1171}, \frac{13}{35}, -\frac{80}{1171}, \frac{119}{1171})$ $+ \frac{2}{1171}\sqrt{132289}e^2 \otimes e_7 + \frac{2}{1171}\sqrt{150699}e^3 \otimes e_4$	{1235, 145679, 246, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:23	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{579}e^{12}, \frac{1}{395}\sqrt{56163}e^{13}, \frac{1}{395}\sqrt{19686}e^{34},$ $\frac{1}{395}\sqrt{2509}e^{16} + \frac{9}{395}\sqrt{193}e^{35}$	$(\frac{91}{395}, -\frac{102}{395}, \frac{35}{158}, -\frac{211}{790}, -\frac{3}{158}, -\frac{11}{395}, \frac{357}{790}, -\frac{18}{395}, \frac{16}{79})$ $+ \frac{1}{395}\sqrt{66585}e^1 \otimes e_2 + \frac{1}{395}\sqrt{73147}e^3 \otimes e_4$	{139, 14579, 2357, 24}
941:23	$0, 0, 0, 0, 0, \frac{2}{409}\sqrt{3030}e^{12}, \frac{2}{409}\sqrt{13130}e^{13}, \frac{2}{409}\sqrt{4646}e^{34},$ $\frac{2}{409}\sqrt{1717}e^{16} + \frac{4}{409}\sqrt{1010}e^{35}$	$(-\frac{104}{409}, \frac{190}{409}, \frac{92}{409}, -\frac{7}{409}, -\frac{110}{409}, \frac{86}{409}, -\frac{12}{409}, \frac{85}{409}, -\frac{18}{409})$ $+ \frac{2}{409}\sqrt{18281}e^2 \otimes e_7 + \frac{6}{409}\sqrt{2121}e^3 \otimes e_5$	{1234, 1238, 24568, 256}
941:23	$0, 0, 0, 0, 0, \frac{6}{1163}\sqrt{1457}e^{12}, \frac{2}{1163}\sqrt{7003}e^{13}, \frac{4}{1163}\sqrt{5358}e^{34},$ $\frac{4}{1163}\sqrt{5358}e^{16} + \frac{4}{1163}\sqrt{658}e^{35}$	$(\frac{102}{1163}, -\frac{159}{1163}, -\frac{131}{1163}, \frac{139}{1163}, \frac{176}{1163}, -\frac{57}{1163}, \frac{29}{1163}, \frac{8}{1163}, \frac{45}{1163})$ $+ \frac{10}{1163}\sqrt{893}e^4 \otimes e_9 + \frac{4}{1163}\sqrt{6674}e^1 \otimes e_8$	{129, 13467, 235689, 4578}
941:23	$0, 0, 0, 0, 0, \frac{1}{581}\sqrt{45758}e^{12}, \frac{4}{581}\sqrt{1370}e^{13}, \frac{3}{581}\sqrt{4110}e^{34},$ $\frac{3}{581}\sqrt{4110}e^{16} + \frac{8}{581}\sqrt{411}e^{35}$	$(\frac{1}{83}, \frac{87}{581}, -\frac{57}{581}, -\frac{73}{581}, \frac{158}{581}, \frac{94}{581}, -\frac{50}{581}, -\frac{130}{581}, \frac{101}{581})$ $+ \frac{1}{581}\sqrt{89598}e^1 \otimes e_8 + \frac{8}{581}\sqrt{822}e^2 \otimes e_7$	{123459, 1567, 24689, 378}
941:23	$0, 0, 0, 0, 0, \frac{2}{3085}\sqrt{11805}e^{12}, \frac{2}{3085}\sqrt{266793}e^{13}, \frac{2}{3085}\sqrt{76339}e^{34},$ $\frac{4}{3085}\sqrt{68469}e^{16} + \frac{6}{3085}\sqrt{87357}e^{35}$	$(\frac{318}{3085}, \frac{309}{3085}, \frac{63}{617}, -\frac{1259}{3085}, \frac{126}{617}, \frac{627}{3085}, \frac{633}{3085}, -\frac{944}{3085}, \frac{189}{617})$ $+ \frac{2}{3085}\sqrt{1050645}e^5 \otimes e_8 + \frac{8}{3085}\sqrt{71617}e^3 \otimes e_4$	{123689, 1478, 23789, 468}
941:23	$0, 0, 0, 0, 0, \frac{68}{487}\sqrt{2}e^{12}, \frac{17}{1461}\sqrt{602}e^{13}, \frac{34}{1461}\sqrt{221}e^{34},$ $\frac{34}{1461}\sqrt{163}e^{16} + \frac{17}{487}\sqrt{62}e^{35}$	$(\frac{119}{1461}, -\frac{170}{1461}, -\frac{289}{1461}, \frac{119}{487}, \frac{119}{487}, -\frac{17}{487}, -\frac{170}{1461}, \frac{68}{1461}, \frac{68}{1461})$ $+ \frac{17}{1461}\sqrt{1010}e^5 \otimes e_8 + \frac{17}{1461}\sqrt{314}e^1 \otimes e_2 + \frac{34}{1461}\sqrt{334}e^4 \otimes e_9$	{134567, 1468, 23689, 25679}
941:23	$0, 0, 0, 0, 0, \frac{68}{487}\sqrt{2}e^{12}, \frac{17}{1461}\sqrt{602}e^{13}, \frac{34}{1461}\sqrt{221}e^{34},$ $\frac{34}{1461}\sqrt{163}e^{16} + \frac{17}{487}\sqrt{62}e^{35}$	$(\frac{119}{1461}, -\frac{170}{1461}, -\frac{289}{1461}, \frac{119}{487}, \frac{119}{487}, -\frac{17}{487}, -\frac{170}{1461}, \frac{68}{1461}, \frac{68}{1461})$ $- \frac{17}{1461}\sqrt{1010}e^5 \otimes e_8 + \frac{17}{1461}\sqrt{314}e^1 \otimes e_2 + \frac{34}{1461}\sqrt{334}e^4 \otimes e_9$	{134567, 1468, 23689, 25679}
941:23	$0, 0, 0, 0, 0, \frac{48}{581}\sqrt{26}e^{12}, \frac{144}{581}\sqrt{2}e^{13}, \frac{32}{581}\sqrt{65}e^{34},$ $\frac{32}{581}\sqrt{65}e^{16} + \frac{16}{581}\sqrt{78}e^{35}$	$(\frac{104}{581}, -\frac{6}{83}, -\frac{97}{581}, -\frac{55}{581}, \frac{263}{581}, \frac{62}{83}, \frac{1}{581}, -\frac{152}{581}, \frac{2}{7})$ $+ \frac{16}{581}\sqrt{298}e^5 \otimes e_7 + \frac{16}{581}\sqrt{714}e^1 \otimes e_8$	{123459, 1279, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{1}{1088}\sqrt{66154}e^{12}, \frac{1}{272}\sqrt{15686}e^{13}, \frac{1}{544}\sqrt{51491}e^{34},$ $\frac{1}{1088}\sqrt{23870}e^{16} + \frac{31}{544}\sqrt{33}e^{35}$	$(-\frac{159}{1088}, \frac{87}{544}, \frac{197}{2176}, \frac{33}{128}, -\frac{485}{2176}, \frac{15}{1088}, -\frac{121}{2176}, \frac{379}{1088}, -\frac{9}{68})$ $+ \frac{1}{1088}\sqrt{344751}e^3 \otimes e_5 + \frac{1}{1088}\sqrt{344751}e^4 \otimes e_7$	{134, 157, 3678, 4568}
941:23	$0, 0, 0, 0, 0, \frac{16}{1037}\sqrt{222}e^{12}, \frac{6}{1037}\sqrt{3515}e^{13}, \frac{2}{1037}\sqrt{39738}e^{34},$ $\frac{4}{1037}\sqrt{6105}e^{16} + \frac{4}{1037}\sqrt{6882}e^{35}$	$(\frac{36}{1037}, -\frac{29}{1037}, -\frac{222}{1037}, \frac{265}{1037}, \frac{265}{1037}, \frac{7}{1037}, -\frac{186}{1037}, \frac{43}{1037}, \frac{43}{1037})$ $+ \frac{4}{1037}\sqrt{14541}e^4 \otimes e_9 - \frac{6}{1037}\sqrt{5106}e^5 \otimes e_8$	{123789, 1259, 134567, 1468, 23689, 25679, 345, 478}
941:23	$0, 0, 0, 0, 0, \frac{16}{1037}\sqrt{222}e^{12}, \frac{6}{1037}\sqrt{3515}e^{13}, \frac{2}{1037}\sqrt{39738}e^{34},$ $\frac{4}{1037}\sqrt{6105}e^{16} + \frac{4}{1037}\sqrt{6882}e^{35}$	$(\frac{36}{1037}, -\frac{29}{1037}, -\frac{222}{1037}, \frac{265}{1037}, \frac{265}{1037}, \frac{7}{1037}, -\frac{186}{1037}, \frac{43}{1037}, \frac{43}{1037})$ $+ \frac{4}{1037}\sqrt{14541}e^4 \otimes e_9 + \frac{6}{1037}\sqrt{5106}e^5 \otimes e_8$	{123789, 1259, 134567, 1468, 23689, 25679, 345, 478}
941:23	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{3182}e^{12}, \frac{2}{223}\sqrt{731}e^{13}, \frac{1}{223}\sqrt{6794}e^{34},$ $\frac{1}{223}\sqrt{4558}e^{16} + \frac{4}{223}\sqrt{258}e^{35}$	$(\frac{21}{223}, -\frac{15}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{70}{223}, \frac{6}{223}, -\frac{22}{223}, -\frac{22}{223}, \frac{27}{223})$ $+ \frac{1}{223}\sqrt{10578}e^1 \otimes e_8 + \frac{2}{223}\sqrt{1677}e^4 \otimes e_7$	{123459, 1279, 1346, 1567, 2356789, 24689, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{3182}e^{12}, \frac{2}{223}\sqrt{731}e^{13}, \frac{1}{223}\sqrt{6794}e^{34},$ $\frac{1}{223}\sqrt{4558}e^{16} + \frac{4}{223}\sqrt{258}e^{35}$	$(\frac{21}{223}, -\frac{15}{223}, -\frac{43}{223}, \frac{21}{223}, \frac{70}{223}, \frac{6}{223}, -\frac{22}{223}, -\frac{22}{223}, \frac{27}{223})$ $+ \frac{1}{223}\sqrt{10578}e^1 \otimes e_8 - \frac{2}{223}\sqrt{1677}e^4 \otimes e_7$	{123459, 1279, 1346, 1567, 2356789, 24689, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{6}{101}\sqrt{22}e^{12}, \frac{6}{101}\sqrt{41}e^{13}, \frac{24}{101}\sqrt{2}e^{34},$ $\frac{3}{101}\sqrt{95}e^{16} + \frac{6}{101}\sqrt{30}e^{35}$	$(\frac{9}{101}, -\frac{6}{101}, -\frac{3}{101}, -\frac{12}{101}, \frac{15}{101}, \frac{3}{101}, \frac{6}{101}, -\frac{15}{101}, \frac{12}{101})$ $+ \frac{3}{101}\sqrt{151}e^3 \otimes e_4 + \frac{3}{101}\sqrt{151}e^5 \otimes e_7 + \frac{9}{101}\sqrt{11}e^2 \otimes e_8$	{135, 147}
941:23	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{17}{1369}\sqrt{670}e^{13}, \frac{17}{1369}\sqrt{887}e^{34},$ $\frac{102}{1369}\sqrt{15}e^{16} + \frac{17}{1369}\sqrt{617}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+ \frac{17}{1369}\sqrt{1041}e^5 \otimes e_8 + \frac{17}{1369}\sqrt{130}e^2 \otimes e_7 + \frac{17}{1369}\sqrt{1311}e^4 \otimes e_9$	{1259, 134567, 23689, 478}
941:23	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{17}{1369}\sqrt{670}e^{13}, \frac{17}{1369}\sqrt{887}e^{34},$ $\frac{102}{1369}\sqrt{15}e^{16} + \frac{17}{1369}\sqrt{617}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $- \frac{17}{1369}\sqrt{1041}e^5 \otimes e_8 + \frac{17}{1369}\sqrt{130}e^2 \otimes e_7 + \frac{17}{1369}\sqrt{1311}e^4 \otimes e_9$	{1259, 134567, 23689, 478}
941:23	$0, 0, 0, 0, 0, \frac{18}{3317}\sqrt{561}e^{12}, \frac{18}{3317}\sqrt{2233}e^{13}, \frac{18}{3317}\sqrt{10549}e^{34},$ $\frac{36}{3317}\sqrt{77}e^{16} + \frac{18}{3317}\sqrt{2607}e^{35}$	$(\frac{130}{3317}, \frac{305}{3317}, -\frac{1043}{3317}, \frac{869}{3317}, \frac{1608}{3317}, \frac{435}{3317}, -\frac{913}{3317}, -\frac{174}{3317}, \frac{565}{3317})$ $+ \frac{144}{3317}\sqrt{253}e^4 \otimes e_7 + \frac{18}{3317}\sqrt{16379}e^5 \otimes e_8$	{12345, 15679, 2468, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:23	$0, 0, 0, 0, 0, \frac{48}{581}\sqrt{26}e^{12}, \frac{144}{581}\sqrt{2}e^{13}, \frac{32}{581}\sqrt{65}e^{34},$ $\frac{32}{581}\sqrt{65}e^{16} + \frac{16}{581}\sqrt{78}e^{35}$	$(\frac{104}{581}, -\frac{6}{83}, \frac{52}{581}, -\frac{204}{581}, \frac{114}{581}, \frac{62}{581}, \frac{156}{581}, -\frac{152}{581}, \frac{2}{7})$ $+ \frac{16}{581}\sqrt{298}e^3 \otimes e_4 + \frac{16}{581}\sqrt{714}e^1 \otimes e_8$	{2356789, 24689, 378, 458}
941:23	$0, 0, 0, 0, 0, \frac{24}{739}\sqrt{70}e^{12}, \frac{28}{739}\sqrt{210}e^{13}, \frac{12}{739}\sqrt{434}e^{34},$ $\frac{12}{739}\sqrt{434}e^{16} + \frac{8}{739}\sqrt{1281}e^{35}$	$(\frac{124}{739}, -\frac{212}{739}, -\frac{151}{739}, \frac{309}{739}, \frac{187}{739}, -\frac{88}{739}, -\frac{27}{739}, \frac{158}{739}, \frac{36}{739})$ $+ \frac{4}{739}\sqrt{14154}e^1 \otimes e_2 + \frac{4}{739}\sqrt{14154}e^4 \otimes e_7$	{13459, 179, 2378, 2458}
941:23	$0, 0, 0, 0, 0, \frac{24}{739}\sqrt{70}e^{12}, \frac{28}{739}\sqrt{210}e^{13}, \frac{12}{739}\sqrt{434}e^{34},$ $\frac{12}{739}\sqrt{434}e^{16} + \frac{8}{739}\sqrt{1281}e^{35}$	$(\frac{124}{739}, -\frac{212}{739}, \frac{186}{739}, -\frac{28}{739}, -\frac{150}{739}, -\frac{88}{739}, \frac{310}{739}, \frac{158}{739}, \frac{36}{739})$ $+ \frac{4}{739}\sqrt{14154}e^1 \otimes e_2 + \frac{4}{739}\sqrt{14154}e^3 \otimes e_5$	{2347, 2378, 2458, 25}
941:24	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{170}e^{12}, \frac{1}{53}\sqrt{595}e^{13}, \frac{1}{53}\sqrt{221}e^{34},$ $\frac{1}{53}\sqrt{493}e^{26} + \frac{1}{53}\sqrt{374}e^{35}$	$(-\frac{17}{53}, \frac{13}{53}, \frac{13}{53}, -\frac{1}{53}, -\frac{4}{53}, -\frac{4}{53}, -\frac{4}{53}, \frac{12}{53}, \frac{9}{53})$ $+ \frac{1}{53}\sqrt{697}e^3 \otimes e_5 + \frac{3}{53}\sqrt{102}e^2 \otimes e_7$	{24568, 256, 347, 378}
941:24	$0, 0, 0, 0, 0, \frac{4}{379}\sqrt{483}e^{12}, \frac{2}{1137}\sqrt{34615}e^{13}, \frac{2}{1137}\sqrt{56833}e^{34},$ $\frac{4}{1137}\sqrt{4830}e^{26} + \frac{2}{1137}\sqrt{47173}e^{35}$	$(\frac{72}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{100}{379}, \frac{100}{379}, \frac{97}{1137}, -\frac{106}{1137}, -\frac{22}{1137}, -\frac{22}{1137})$ $+ \frac{44}{1137}\sqrt{161}e^5 \otimes e_8 + \frac{8}{1137}\sqrt{5474}e^4 \otimes e_9$	{123789, 1259, 136789, 1569, 23456, 24678, 345, 478}
941:24	$0, 0, 0, 0, 0, \frac{4}{379}\sqrt{483}e^{12}, \frac{2}{1137}\sqrt{34615}e^{13}, \frac{2}{1137}\sqrt{56833}e^{34},$ $\frac{4}{1137}\sqrt{4830}e^{26} + \frac{2}{1137}\sqrt{47173}e^{35}$	$(\frac{72}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{100}{379}, \frac{100}{379}, \frac{97}{1137}, -\frac{106}{1137}, \frac{22}{1137}, -\frac{22}{1137})$ $- \frac{44}{1137}\sqrt{161}e^5 \otimes e_8 + \frac{8}{1137}\sqrt{5474}e^4 \otimes e_9$	{123789, 1259, 136789, 1569, 23456, 24678, 345, 478}
941:24	$0, 0, 0, 0, 0, \frac{12}{503}\sqrt{30}e^{12}, \frac{6}{503}\sqrt{465}e^{13}, \frac{126}{503}\sqrt{5}e^{34},$ $\frac{12}{503}\sqrt{30}e^{26} + \frac{6}{503}\sqrt{465}e^{35}$	$(\frac{16}{503}, \frac{39}{503}, -\frac{154}{503}, \frac{132}{503}, \frac{248}{503}, \frac{55}{503}, -\frac{138}{503}, -\frac{22}{503}, \frac{94}{503})$ $+ \frac{24}{503}\sqrt{210}e^4 \otimes e_7 + \frac{24}{503}\sqrt{210}e^5 \otimes e_8$	{12579, 15679, 2468, 48}
941:24	$0, 0, 0, 0, 0, \frac{1}{413}\sqrt{18430}e^{12}, \frac{2}{413}\sqrt{97}e^{13}, \frac{1}{413}\sqrt{32010}e^{34},$ $\frac{11}{413}\sqrt{194}e^{26} + \frac{4}{413}\sqrt{970}e^{35}$	$(-\frac{7}{59}, \frac{67}{413}, \frac{13}{59}, -\frac{121}{413}, -\frac{6}{413}, \frac{18}{413}, \frac{6}{59}, -\frac{30}{413}, \frac{85}{413})$ $+ \frac{1}{413}\sqrt{46366}e^2 \otimes e_8 + \frac{2}{413}\sqrt{6305}e^3 \otimes e_5$	{2346, 2567, 38, 4578}
941:24	$0, 0, 0, 0, 0, \frac{82}{5029}\sqrt{226}e^{12}, \frac{82}{5029}\sqrt{482}e^{13}, \frac{82}{5029}\sqrt{17}e^{34},$ $\frac{41}{5029}\sqrt{1194}e^{26} + \frac{943}{5029}\sqrt{2}e^{35}$	$(-\frac{943}{5029}, \frac{1271}{5029}, \frac{533}{5029}, -\frac{1148}{5029}, \frac{1066}{5029}, \frac{328}{5029}, \frac{410}{5029}, -\frac{615}{5029}, \frac{1599}{5029})$ $+ \frac{41}{5029}\sqrt{3694}e^2 \otimes e_7 + \frac{82}{5029}\sqrt{561}e^5 \otimes e_8 + \frac{943}{5029}\sqrt{6}e^3 \otimes e_4$	{12389, 2468}
941:24	$0, 0, 0, 0, 0, \frac{8}{803}\sqrt{1218}e^{12}, \frac{2}{803}\sqrt{39585}e^{13}, \frac{2}{803}\sqrt{16849}e^{34},$ $\frac{6}{803}\sqrt{406}e^{26} + \frac{2}{803}\sqrt{7917}e^{35}$	$(\frac{192}{803}, -\frac{21}{803}, \frac{96}{803}, -\frac{310}{803}, \frac{54}{803}, \frac{171}{803}, \frac{288}{803}, -\frac{214}{803}, \frac{150}{803})$ $+ \frac{16}{803}\sqrt{1015}e^3 \otimes e_4 + \frac{2}{803}\sqrt{79170}e^1 \otimes e_8$	{235678, 2468, 3578, 48}
941:24	$0, 0, 0, 0, 0, \frac{4}{1137}\sqrt{4830}e^{12}, \frac{2}{1137}\sqrt{47173}e^{13}, \frac{2}{1137}\sqrt{56833}e^{34},$ $\frac{4}{379}\sqrt{483}e^{26} + \frac{2}{1137}\sqrt{34615}e^{35}$	$(\frac{80}{379}, -\frac{119}{1137}, \frac{54}{379}, -\frac{244}{1137}, -\frac{160}{1137}, \frac{121}{1137}, \frac{134}{379}, -\frac{82}{1137}, \frac{2}{1137})$ $+ \frac{44}{1137}\sqrt{161}e^3 \otimes e_5 + \frac{8}{1137}\sqrt{5474}e^1 \otimes e_8$	{23678, 24568, 378, 458}
941:24	$0, 0, 0, 0, 0, \frac{8}{849}\sqrt{1027}e^{12}, \frac{10}{283}\sqrt{79}e^{13}, \frac{2}{849}\sqrt{10033}e^{34},$ $\frac{849}{849}\sqrt{17143}e^{26} + \frac{2}{849}\sqrt{12719}e^{35}$	$(\frac{4}{283}, \frac{65}{849}, -\frac{35}{283}, -\frac{41}{849}, \frac{247}{849}, \frac{77}{849}, \frac{31}{283}, -\frac{146}{849}, \frac{142}{849})$ $+ \frac{2}{849}\sqrt{28361}e^1 \otimes e_8 + \frac{4}{849}\sqrt{7979}e^2 \otimes e_7$	{123459, 1679, 24568, 378}
941:24	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178}e^{12}, \frac{2}{169}\sqrt{4717}e^{13}, \frac{14}{169}\sqrt{89}e^{34},$ $\frac{4}{169}\sqrt{445}e^{26} + \frac{2}{169}\sqrt{2759}e^{35}$	$(-\frac{16}{169}, \frac{17}{169}, \frac{98}{169}, -\frac{20}{169}, -\frac{80}{169}, \frac{1}{169}, \frac{82}{169}, \frac{6}{13}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115}e^3 \otimes e_5$	{12346, 12368, 1245678, 12567, 134, 138, 14578, 157}
941:24	$0, 0, 0, 0, 0, \frac{14}{3277}\sqrt{6193}e^{12}, \frac{2}{3277}\sqrt{186353}e^{13}, \frac{2}{3277}\sqrt{274181}e^{34},$ $\frac{12}{3277}\sqrt{17453}e^{26} + \frac{2}{3277}\sqrt{39973}e^{35}$	$(-\frac{478}{3277}, \frac{293}{3277}, -\frac{355}{3277}, \frac{1234}{3277}, \frac{463}{3277}, -\frac{185}{3277}, -\frac{833}{3277}, \frac{879}{3277}, \frac{108}{3277})$ $+ \frac{2}{3277}\sqrt{748227}e^4 \otimes e_9 + \frac{4}{3277}\sqrt{219007}e^2 \otimes e_7$	{123589, 1679, 24568, 347}
941:24	$0, 0, 0, 0, 0, \frac{10}{113}\sqrt{2}e^{12}, \frac{10}{113}\sqrt{7}e^{13}, \frac{10}{113}\sqrt{35}e^{34},$ $\frac{10}{113}\sqrt{22}e^{26} + \frac{10}{113}e^{35}$	$(\frac{4}{113}, -\frac{11}{113}, \frac{16}{113}, \frac{32}{113}, -\frac{34}{113}, -\frac{7}{113}, \frac{20}{113}, \frac{48}{113}, -\frac{18}{113})$ $+ \frac{10}{113}\sqrt{46}e^3 \otimes e_5 + \frac{30}{113}\sqrt{6}e^4 \otimes e_9$	{12389, 12579, 13689, 15679}
941:24	$0, 0, 0, 0, 0, \frac{24}{353}\sqrt{102}e^{12}, \frac{6}{353}\sqrt{1105}e^{13}, \frac{6}{353}\sqrt{1921}e^{34},$ $\frac{6}{353}\sqrt{646}e^{26} + \frac{102}{353}\sqrt{3}e^{35}$	$(\frac{192}{353}, -\frac{71}{353}, -\frac{64}{353}, -\frac{50}{353}, \frac{114}{353}, \frac{121}{353}, \frac{128}{353}, -\frac{114}{353}, \frac{50}{353})$ $+ \frac{6}{353}\sqrt{4930}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 23678, 24568, 378, 458}
941:24	$0, 0, 0, 0, 0, \frac{1}{1621}\sqrt{222778}e^{12}, \frac{4}{1621}\sqrt{43355}e^{13}, \frac{1}{1621}\sqrt{158746}e^{34},$ $\frac{4}{1621}\sqrt{28014}e^{26} + \frac{1}{1621}\sqrt{17342}e^{35}$	$(-\frac{511}{1621}, \frac{518}{1621}, \frac{362}{1621}, -\frac{305}{1621}, \frac{163}{1621}, \frac{7}{1621}, -\frac{149}{1621}, \frac{57}{1621}, \frac{525}{1621})$ $+ \frac{13}{1621}\sqrt{6670}e^2 \otimes e_7 + \frac{20}{1621}\sqrt{2001}e^3 \otimes e_4$	{1239, 145679, 246, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:24	$0, 0, 0, 0, 0, \frac{8}{527}\sqrt{570}e^{12}, \frac{2}{527}\sqrt{665}e^{13}, \frac{114}{527}\sqrt{5}e^{34},$ $\frac{8}{527}\sqrt{570}e^{26} + \frac{2}{527}\sqrt{665}e^{35}$	$(\frac{192}{527}, -\frac{129}{527}, -\frac{122}{527}, \frac{4}{17}, \frac{56}{527}, \frac{63}{527}, \frac{70}{527}, \frac{2}{527}, -\frac{66}{527})$ $+ \frac{4}{527}\sqrt{5510}e^1 \otimes e_8 + \frac{4}{527}\sqrt{5510}e^4 \otimes e_9$	{12579, 15679, 2468, 48}
941:24	$0, 0, 0, 0, 0, \frac{4}{1217}\sqrt{4602}e^{12}, \frac{2}{1217}\sqrt{72393}e^{13}, \frac{6}{1217}\sqrt{7021}e^{34},$ $\frac{12}{1217}\sqrt{590}e^{26} + \frac{2}{1217}\sqrt{46551}e^{35}$	$(-\frac{208}{1217}, \frac{81}{1217}, \frac{154}{1217}, \frac{300}{1217}, -\frac{200}{1217}, -\frac{127}{1217}, -\frac{54}{1217}, \frac{454}{1217}, -\frac{46}{1217})$ $+ \frac{8}{1217}\sqrt{6195}e^3 \otimes e_5 + \frac{8}{1217}\sqrt{6195}e^4 \otimes e_7$	{12346, 12567, 134, 157}
941:24	$0, 0, 0, 0, 0, \frac{4}{3577}\sqrt{14055}e^{12}, \frac{2}{3577}\sqrt{165849}e^{13}, \frac{2}{3577}\sqrt{203329}e^{34},$ $\frac{4}{3577}\sqrt{61842}e^{26} + \frac{2}{3577}\sqrt{1076613}e^{35}$	$(\frac{120}{3577}, \frac{561}{3577}, \frac{414}{3577}, \frac{20}{49}, \frac{828}{3577}, \frac{681}{3577}, \frac{534}{3577}, -\frac{1046}{3577}, \frac{1242}{3577})$ $+ \frac{36}{3577}\sqrt{4685}e^5 \otimes e_8 + \frac{80}{3577}\sqrt{937}e^3 \otimes e_4$	{12478, 14678, 236789, 3789}
941:24	$0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{650122}e^{12}, \frac{4}{1397}\sqrt{56045}e^{13}, \frac{1}{1397}\sqrt{34646}e^{34},$ $\frac{4}{1397}\sqrt{70311}e^{26} + \frac{1}{1397}\sqrt{527842}e^{35}$	$(-\frac{527}{1397}, \frac{526}{1397}, \frac{34}{1397}, \frac{215}{1397}, \frac{491}{1397}, -\frac{1}{1397}, -\frac{493}{1397}, \frac{249}{1397}, \frac{525}{1397})$ $+ \frac{1}{1397}\sqrt{2374270}e^2 \otimes e_7$	{123459, 123589, 146789, 1679, 24568, 256, 347, 378}
941:24	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{17}{1369}\sqrt{130}e^{13}, \frac{17}{1369}\sqrt{617}e^{34},$ $\frac{102}{1369}\sqrt{15}e^{26} + \frac{17}{1369}\sqrt{347}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+ \frac{17}{1369}\sqrt{1041}e^4 \otimes e_9 + \frac{17}{1369}\sqrt{670}e^2 \otimes e_7 + \frac{17}{1369}\sqrt{771}e^5 \otimes e_8$	{1259, 136789, 23456, 478}
941:24	$0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22}e^{12}, \frac{17}{1369}\sqrt{130}e^{13}, \frac{17}{1369}\sqrt{617}e^{34},$ $\frac{102}{1369}\sqrt{15}e^{26} + \frac{17}{1369}\sqrt{347}e^{35}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, \frac{34}{1369}, -\frac{272}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+ \frac{17}{1369}\sqrt{1041}e^4 \otimes e_9 + \frac{17}{1369}\sqrt{670}e^2 \otimes e_7 - \frac{17}{1369}\sqrt{771}e^5 \otimes e_8$	{1259, 136789, 23456, 478}
941:24	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{426}e^{12}, \frac{2}{131}\sqrt{2769}e^{13}, \frac{2}{131}\sqrt{1349}e^{34},$ $\frac{2}{131}\sqrt{426}e^{26} + \frac{2}{131}\sqrt{2769}e^{35}$	$(-\frac{12}{131}, \frac{33}{131}, \frac{72}{131}, -\frac{70}{131}, -\frac{18}{131}, \frac{21}{131}, \frac{60}{131}, \frac{2}{131}, \frac{54}{131})$ $+ \frac{2}{131}\sqrt{7810}e^3 \otimes e_4$	{12369, 1245679, 139, 14579, 2357, 24, 3567, 46}
941:24	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178}e^{12}, \frac{2}{169}\sqrt{4717}e^{13}, \frac{14}{169}\sqrt{89}e^{34},$ $\frac{4}{169}\sqrt{445}e^{26} + \frac{2}{169}\sqrt{2759}e^{35}$	$(-\frac{16}{169}, \frac{17}{169}, -\frac{42}{169}, \frac{120}{169}, \frac{60}{169}, \frac{1}{169}, -\frac{58}{169}, \frac{6}{13}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115}e^4 \otimes e_7$	{12346, 12567, 134, 157, 235789, 2489, 356789, 4689}
941:24	$0, 0, 0, 0, 0, \frac{1}{413}\sqrt{18430}e^{12}, \frac{2}{413}\sqrt{97}e^{13}, \frac{1}{413}\sqrt{32010}e^{34},$ $\frac{11}{413}\sqrt{194}e^{26} + \frac{4}{413}\sqrt{970}e^{35}$	$(-\frac{7}{59}, \frac{67}{413}, -\frac{39}{413}, \frac{9}{413}, \frac{124}{413}, \frac{18}{413}, -\frac{88}{413}, -\frac{30}{413}, \frac{85}{413})$ $+ \frac{1}{413}\sqrt{46366}e^2 \otimes e_8 + \frac{2}{413}\sqrt{6305}e^4 \otimes e_7$	{1356789, 14689, 2346, 2567}
941:24	$0, 0, 0, 0, 0, \frac{1}{279}\sqrt{28558}e^{12}, \frac{4}{279}\sqrt{786}e^{13}, \frac{5}{279}\sqrt{1310}e^{34},$ $\frac{1}{279}\sqrt{28558}e^{26} + \frac{4}{279}\sqrt{786}e^{35}$	$(-\frac{19}{279}, \frac{61}{279}, \frac{13}{279}, -\frac{83}{279}, \frac{10}{31}, \frac{14}{93}, -\frac{2}{93}, -\frac{70}{279}, \frac{103}{279})$ $+ \frac{1}{279}\sqrt{62094}e^2 \otimes e_8$	{1234579, 129, 1356789, 14689, 2346, 2567, 38, 4578}
941:24	$0, 0, 0, 0, 0, \frac{2}{4189}\sqrt{93209}e^{12}, \frac{6}{4189}\sqrt{7055}e^{13}, \frac{2}{4189}\sqrt{140685}e^{34},$ $\frac{24}{4189}\sqrt{830}e^{26} + \frac{6}{4189}\sqrt{10873}e^{35}$	$(\frac{34}{4189}, \frac{41}{4189}, -\frac{407}{4189}, \frac{282}{4189}, \frac{523}{4189}, \frac{75}{4189}, -\frac{373}{4189}, -\frac{125}{4189}, \frac{116}{4189})$ $+ \frac{2}{4189}\sqrt{131555}e^4 \otimes e_9 + \frac{4}{4189}\sqrt{45899}e^2 \otimes e_8$	{129, 1356789, 2346, 4578}
941:24	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{445}e^{12}, \frac{2}{169}\sqrt{2759}e^{13}, \frac{14}{169}\sqrt{89}e^{34},$ $\frac{4}{169}\sqrt{178}e^{26} + \frac{2}{169}\sqrt{4717}e^{35}$	$(\frac{40}{169}, \frac{17}{169}, -\frac{42}{169}, -\frac{20}{169}, \frac{116}{169}, \frac{57}{169}, -\frac{2}{169}, -\frac{62}{169}, \frac{74}{169})$ $+ \frac{4}{169}\sqrt{3115}e^5 \otimes e_8$	{123457, 1248, 134567, 1468, 23689, 25679, 389, 579}
941:24	$0, 0, 0, 0, 0, \frac{12}{1807}\sqrt{71}e^{12}, \frac{20}{1807}\sqrt{21}e^{13}, \frac{4}{1807}\sqrt{970}e^{34},$ $\frac{4}{1807}\sqrt{795}e^{26} + \frac{4}{1807}\sqrt{213}e^{35}$	$(\frac{72}{1807}, -\frac{42}{1807}, -\frac{46}{1807}, -\frac{4}{1807}, \frac{34}{1807}, \frac{30}{1807}, \frac{2}{139}, -\frac{50}{1807}, -\frac{12}{1807})$ $+ \frac{12}{1807}\sqrt{134}e^2 \otimes e_8 - \frac{4}{1807}\sqrt{365}e^5 \otimes e_7 + \frac{8}{1807}\sqrt{195}e^4 \otimes e_9$	{129, 1356789, 2346, 4578}
941:24	$0, 0, 0, 0, 0, \frac{12}{1807}\sqrt{71}e^{12}, \frac{20}{1807}\sqrt{21}e^{13}, \frac{4}{1807}\sqrt{970}e^{34},$ $\frac{4}{1807}\sqrt{795}e^{26} + \frac{4}{1807}\sqrt{213}e^{35}$	$(\frac{72}{1807}, -\frac{42}{1807}, -\frac{46}{1807}, -\frac{4}{1807}, \frac{34}{1807}, \frac{30}{1807}, \frac{2}{139}, -\frac{50}{1807}, -\frac{12}{1807})$ $+ \frac{12}{1807}\sqrt{134}e^2 \otimes e_8 + \frac{4}{1807}\sqrt{365}e^5 \otimes e_7 + \frac{8}{1807}\sqrt{195}e^4 \otimes e_9$	{129, 1356789, 2346, 4578}
941:24	$0, 0, 0, 0, 0, \frac{6}{353}\sqrt{646}e^{12}, \frac{102}{353}\sqrt{3}e^{13}, \frac{6}{353}\sqrt{1921}e^{34},$ $\frac{24}{353}\sqrt{102}e^{26} + \frac{6}{353}\sqrt{1105}e^{35}$	$(\frac{76}{353}, -\frac{71}{353}, -\frac{64}{353}, \frac{240}{353}, -\frac{2}{353}, \frac{5}{353}, \frac{12}{353}, \frac{176}{353}, -\frac{66}{353})$ $+ \frac{6}{353}\sqrt{4930}e^4 \otimes e_9$	{123789, 1259, 136789, 1569, 23456, 24678, 345, 478}
941:24	$0, 0, 0, 0, 0, \frac{12}{299}\sqrt{187}e^{12}, \frac{4}{299}\sqrt{561}e^{13}, \frac{4}{299}\sqrt{1870}e^{34},$ $\frac{12}{299}\sqrt{187}e^{26} + \frac{4}{299}\sqrt{561}e^{35}$	$(-\frac{24}{299}, \frac{66}{299}, \frac{33}{299}, -\frac{103}{299}, \frac{75}{299}, \frac{42}{299}, \frac{9}{299}, -\frac{70}{299}, \frac{108}{299})$ $+ \frac{4}{299}\sqrt{3774}e^2 \otimes e_8 + \frac{4}{299}\sqrt{595}e^3 \otimes e_4$	{1356789, 14689, 38, 4578}
941:24	$0, 0, 0, 0, 0, \frac{4}{1137}\sqrt{4830}e^{12}, \frac{2}{1137}\sqrt{47173}e^{13}, \frac{2}{1137}\sqrt{56833}e^{34},$ $\frac{4}{379}\sqrt{483}e^{26} + \frac{2}{1137}\sqrt{34615}e^{35}$	$(\frac{80}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{80}{379}, \frac{108}{379}, \frac{121}{1137}, -\frac{82}{1137}, -\frac{82}{1137}, \frac{2}{1137})$ $- \frac{44}{1137}\sqrt{161}e^4 \otimes e_7 + \frac{8}{1137}\sqrt{5474}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 23678, 24568, 378, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:24	$0, 0, 0, 0, 0, \frac{4}{1137}\sqrt{4830e^{12}}, \frac{2}{1137}\sqrt{47173e^{13}}, \frac{2}{1137}\sqrt{56833e^{34}},$ $\frac{4}{379}\sqrt{483e^{26}} + \frac{2}{1137}\sqrt{34615e^{35}}$	$(\frac{80}{379}, -\frac{119}{1137}, -\frac{322}{1137}, \frac{80}{379}, \frac{108}{379}, \frac{121}{1137}, -\frac{82}{1137}, -\frac{82}{1137}, \frac{2}{1137})$ $+ \frac{44}{1137}\sqrt{161e^4} \otimes e_7 + \frac{8}{1137}\sqrt{5474e^1} \otimes e_8$	{123459, 1279, 134569, 1679, 23678, 24568, 378, 458}
941:25	$0, 0, 0, 0, 0, \frac{1}{403}\sqrt{2022e^{12}}, \frac{2}{403}\sqrt{13817e^{13}}, \frac{4}{403}\sqrt{3370e^{34}},$ $\frac{4}{403}\sqrt{3370e^{16}} + \frac{9}{403}\sqrt{674e^{45}}$	$(-\frac{86}{403}, \frac{76}{403}, \frac{241}{403}, -\frac{88}{403}, -\frac{8}{403}, -\frac{10}{403}, \frac{5}{13}, \frac{153}{403}, -\frac{96}{403})$ $+ \frac{2}{403}\sqrt{55605e^3} \otimes e_9$	{123456, 12368, 14789, 1579, 23457, 2378, 4689, 569}
941:25	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{53922e^{12}}, \frac{10}{287}\sqrt{418e^{13}}, \frac{2}{287}\sqrt{15466e^{34}},$ $\frac{1}{287}\sqrt{28006e^{16}} + \frac{19}{287}\sqrt{66e^{45}}$	$(-\frac{52}{287}, \frac{158}{287}, -\frac{4}{287}, -\frac{47}{287}, \frac{101}{287}, \frac{106}{287}, -\frac{8}{41}, -\frac{51}{287}, \frac{54}{287})$ $+ \frac{9}{287}\sqrt{1254e^2} \otimes e_8$	{1234579, 129, 135678, 1468, 234569, 2679, 358, 478}
941:25	$0, 0, 0, 0, 0, \frac{2}{1139}\sqrt{94323e^{12}}, \frac{1}{1139}\sqrt{576874e^{13}}, \frac{1}{1139}\sqrt{1380670e^{34}},$ $\frac{1}{1139}\sqrt{527662e^{16}} + \frac{1}{1139}\sqrt{451110e^{45}}$	$(\frac{83}{1139}, \frac{65}{1139}, -\frac{91}{1139}, \frac{47}{67}, -\frac{568}{1139}, \frac{148}{1139}, -\frac{8}{1139}, \frac{708}{1139}, \frac{231}{1139})$ $+ \frac{12}{1139}\sqrt{17771e^4} \otimes e_5$	{13467, 135678, 1468, 156, 34, 358, 478, 57}
941:25	$0, 0, 0, 0, 0, \frac{2}{3325}\sqrt{64641e^{12}}, \frac{4}{3325}\sqrt{23033e^{13}}, \frac{4}{3325}\sqrt{188722e^{34}},$ $\frac{2}{3325}\sqrt{445057e^{16}} + \frac{6}{3325}\sqrt{12631e^{45}}$	$(-\frac{17}{133}, \frac{298}{3325}, \frac{934}{3325}, \frac{467}{3325}, -\frac{1019}{3325}, -\frac{127}{3325}, \frac{509}{3325}, \frac{1401}{3325}, -\frac{552}{3325})$ $+ \frac{2}{3325}\sqrt{1254927e^3} \otimes e_9 + \frac{6}{3325}\sqrt{103277e^4} \otimes e_5$	{124789, 12579, 24689, 2569}
941:25	$0, 0, 0, 0, 0, \frac{5}{351}\sqrt{1121e^{12}}, \frac{5}{117}\sqrt{57e^{13}}, \frac{5}{702}\sqrt{4294e^{34}},$ $\frac{5}{702}\sqrt{570e^{16}} + \frac{5}{702}\sqrt{551e^{45}}$	$(-\frac{205}{1404}, \frac{145}{351}, -\frac{55}{468}, \frac{140}{351}, -\frac{5}{18}, \frac{125}{468}, -\frac{185}{702}, \frac{395}{1404}, \frac{85}{702})$ $+ \frac{35}{351}\sqrt{57e^4} \otimes e_5 + \frac{18}{702}\sqrt{12293e^2} \otimes e_7$	{14678, 1567, 347, 3578}
941:25	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{70e^{12}}, \frac{6}{61}\sqrt{70e^{13}}, \frac{10}{61}\sqrt{14e^{34}},$ $\frac{7}{61}\sqrt{30e^{16}} + \frac{1}{61}\sqrt{2310e^{45}}$	$(0, \frac{18}{61}, -\frac{10}{61}, -\frac{7}{61}, \frac{25}{61}, \frac{18}{61}, -\frac{10}{61}, -\frac{17}{61}, \frac{18}{61})$ $+ \frac{1}{61}\sqrt{210e^2} \otimes e_8 + \frac{2}{61}\sqrt{910e^5} \otimes e_7$	{123569, 124679, 13458, 178}
941:25	$0, 0, 0, 0, 0, \frac{3}{77}\sqrt{70e^{12}}, \frac{6}{77}\sqrt{35e^{13}}, \frac{2}{77}\sqrt{203e^{34}},$ $\frac{2}{11}\sqrt{3e^{16}} + \frac{5}{77}\sqrt{42e^{45}}$	$(0, 0, \frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, \frac{1}{11}, -\frac{1}{11}, 0)$ $+ \frac{2}{77}\sqrt{301e^5} \otimes e_7 + \frac{4}{77}\sqrt{42e^2} \otimes e_8 + \frac{6}{77}\sqrt{14e^3} \otimes e_9$	{2589, 367}
941:25	$0, 0, 0, 0, 0, \frac{10}{1307}\sqrt{2730e^{12}}, \frac{1}{1307}\sqrt{115570e^{13}}, \frac{1}{1307}\sqrt{443170e^{34}},$ $\frac{140}{1307}\sqrt{13e^{16}} + \frac{3}{1307}\sqrt{2730e^{45}}$	$(-\frac{301}{1307}, \frac{473}{1307}, \frac{326}{1307}, \frac{308}{1307}, \frac{179}{1307}, \frac{172}{1307}, \frac{25}{1307}, \frac{18}{1307}, -\frac{129}{1307})$ $+ \frac{2}{1307}\sqrt{121485e^3} \otimes e_9 + \frac{3}{1307}\sqrt{62790e^2} \otimes e_8$	{129, 135678, 2679, 358}
941:25	$0, 0, 0, 0, 0, \frac{20}{2833}\sqrt{111e^{12}}, \frac{20}{2833}\sqrt{2886e^{13}}, \frac{10}{2833}\sqrt{11877e^{34}},$ $\frac{80}{2833}\sqrt{185e^{16}} + \frac{10}{2833}\sqrt{11729e^{45}}$	$(\frac{945}{2833}, -\frac{905}{2833}, -\frac{285}{2833}, -\frac{290}{2833}, \frac{1275}{2833}, \frac{40}{2833}, \frac{660}{2833}, -\frac{575}{2833}, \frac{985}{2833})$ $+ \frac{10}{2833}\sqrt{45917e^1} \otimes e_2 + \frac{20}{2833}\sqrt{11507e^5} \otimes e_8$	{13456, 1368, 24689, 2569}
941:25	$0, 0, 0, 0, 0, \frac{6}{227}\sqrt{37e^{12}}, \frac{6}{227}\sqrt{194e^{13}}, \frac{6}{227}\sqrt{137e^{34}},$ $\frac{6}{227}\sqrt{138e^{16}} + \frac{6}{227}\sqrt{303e^{45}}$	$(\frac{16}{227}, \frac{30}{227}, -\frac{62}{227}, \frac{26}{227}, \frac{36}{227}, \frac{46}{227}, -\frac{46}{227}, -\frac{36}{227}, \frac{62}{227})$ $+ \frac{12}{227}\sqrt{91e^5} \otimes e_8 + \frac{6}{227}\sqrt{461e^4} \otimes e_7$	{125679, 1345, 2489, 3678}
941:25	$0, 0, 0, 0, 0, \frac{3}{437}\sqrt{2314e^{12}}, \frac{2}{437}\sqrt{2581e^{13}}, \frac{1}{437}\sqrt{35422e^{34}},$ $\frac{1}{437}\sqrt{26878e^{16}} + \frac{2}{437}\sqrt{4539e^{45}}$	$(\frac{83}{437}, -\frac{73}{437}, -\frac{97}{437}, \frac{91}{437}, \frac{2}{437}, \frac{10}{437}, \frac{14}{437}, -\frac{6}{437}, \frac{93}{437})$ $+ \frac{12}{437}\sqrt{178e^4} \otimes e_5 + \frac{1}{437}\sqrt{44322e^1} \otimes e_8$	{13467, 156, 358, 478}
941:25	$0, 0, 0, 0, 0, \frac{4}{73}e^{12}, \frac{2}{73}\sqrt{17e^{13}}, \frac{1}{73}\sqrt{46e^{34}},$ $\frac{2}{73}\sqrt{3e^{16}} + \frac{1}{73}\sqrt{86e^{45}}$	$(-\frac{5}{73}, \frac{9}{73}, \frac{1}{73}, -\frac{2}{73}, \frac{1}{73}, \frac{4}{73}, -\frac{4}{73}, -\frac{1}{73}, -\frac{1}{73})$ $+ \frac{1}{73}\sqrt{70e^5} \otimes e_8 + \frac{2}{73}\sqrt{26e^4} \otimes e_7 + \frac{4}{73}\sqrt{2e^3} \otimes e_9$	{125679, 1345, 2489, 3678}
941:25	$0, 0, 0, 0, 0, \frac{4}{73}e^{12}, \frac{2}{73}\sqrt{17e^{13}}, \frac{1}{73}\sqrt{46e^{34}},$ $\frac{2}{73}\sqrt{3e^{16}} + \frac{1}{73}\sqrt{86e^{45}}$	$(-\frac{5}{73}, \frac{9}{73}, \frac{1}{73}, -\frac{2}{73}, \frac{1}{73}, \frac{4}{73}, -\frac{4}{73}, -\frac{1}{73}, -\frac{1}{73})$ $- \frac{1}{73}\sqrt{70e^5} \otimes e_8 + \frac{2}{73}\sqrt{26e^4} \otimes e_7 + \frac{4}{73}\sqrt{2e^3} \otimes e_9$	{125679, 1345, 2489, 3678}
941:25	$0, 0, 0, 0, 0, \frac{3}{125}\sqrt{286e^{12}}, \frac{4}{125}\sqrt{33e^{13}}, \frac{1}{125}\sqrt{2046e^{34}},$ $\frac{1}{125}\sqrt{2046e^{16}} + \frac{4}{125}\sqrt{66e^{45}}$	$(\frac{7}{125}, \frac{3}{25}, -\frac{1}{5}, -\frac{1}{125}, \frac{6}{25}, \frac{22}{125}, -\frac{18}{125}, -\frac{26}{125}, \frac{29}{125})$ $+ \frac{1}{125}\sqrt{4686e^1} \otimes e_8 + \frac{4}{125}\sqrt{165e^2} \otimes e_7$	{123459, 1567, 245689, 3578}
941:25	$0, 0, 0, 0, 0, \frac{2}{71}\sqrt{177e^{12}}, \frac{1}{71}\sqrt{3422e^{13}}, \frac{1}{71}\sqrt{590e^{34}},$ $\frac{1}{71}\sqrt{1770e^{16}} + \frac{3}{71}\sqrt{354e^{45}}$	$(\frac{3}{71}, \frac{17}{71}, -\frac{23}{71}, \frac{39}{71}, -\frac{16}{71}, \frac{20}{71}, -\frac{20}{71}, \frac{16}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770e^4} \otimes e_7$	{123469, 125679, 1345, 17, 235789, 2489, 3678, 4568}
941:25	$0, 0, 0, 0, 0, \frac{1}{533}\sqrt{19866e^{12}}, \frac{2}{533}\sqrt{16401e^{13}}, \frac{8}{533}\sqrt{231e^{34}},$ $\frac{8}{533}\sqrt{231e^{16}} + \frac{2}{533}\sqrt{4466e^{45}}$	$(-\frac{154}{533}, \frac{228}{533}, \frac{151}{533}, -\frac{56}{533}, -\frac{24}{533}, \frac{74}{533}, -\frac{3}{533}, \frac{95}{533}, -\frac{80}{533})$ $+ \frac{2}{533}\sqrt{30261e^3} \otimes e_9 + \frac{4}{533}\sqrt{6006e^2} \otimes e_7$	{24689, 2569, 3457, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:25	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{10}e^{12}, \frac{2}{47}\sqrt{5}e^{13}, \frac{4}{47}\sqrt{10}e^{34},$ $\frac{4}{47}\sqrt{10}e^{16} + \frac{1}{47}\sqrt{30}e^{45}$	$(\frac{2}{47}, -\frac{4}{47}, \frac{5}{47}, -\frac{8}{47}, \frac{8}{47}, -\frac{2}{47}, \frac{7}{47}, -\frac{3}{47}, 0)$ $+\frac{4}{47}\sqrt{15}e^1 \otimes e_8 + \frac{6}{47}\sqrt{5}e^3 \otimes e_9$	{1279, 1346, 245689, 3578}
941:25	$0, 0, 0, 0, 0, \frac{19}{6257}\sqrt{1590}e^{12}, \frac{228}{6257}\sqrt{38}e^{13}, \frac{19}{6257}\sqrt{1614}e^{34},$ $\frac{19}{6257}\sqrt{698}e^{16} + \frac{19}{6257}\sqrt{4026}e^{45}$	$(\frac{133}{6257}, -\frac{228}{6257}, \frac{399}{6257}, -\frac{855}{6257}, \frac{893}{6257}, -\frac{95}{6257}, \frac{532}{6257}, -\frac{456}{6257}, \frac{38}{6257})$ $+\frac{19}{6257}\sqrt{3954}e^3 \otimes e_9 + \frac{19}{6257}\sqrt{5110}e^5 \otimes e_7 + \frac{38}{6257}\sqrt{687}e^1 \otimes e_2$	{13458, 2589}
941:25	$0, 0, 0, 0, 0, \frac{3}{343}\sqrt{2758}e^{12}, \frac{2}{343}\sqrt{21867}e^{13}, \frac{2}{343}\sqrt{12805}e^{34},$ $\frac{3}{343}\sqrt{12805}e^{16} + \frac{1}{343}\sqrt{79194}e^{45}$	$(\frac{4}{343}, \frac{96}{343}, -\frac{59}{343}, -\frac{38}{343}, \frac{142}{343}, \frac{100}{343}, \frac{55}{343}, -\frac{97}{343}, \frac{104}{343})$ $+\frac{2}{343}\sqrt{30535}e^5 \otimes e_7$	{123569, 124679, 13458, 178, 234789, 2589, 367, 456}
941:25	$0, 0, 0, 0, 0, \frac{6}{571}\sqrt{646}e^{12}, \frac{2}{571}\sqrt{49742}e^{13}, \frac{2}{571}\sqrt{4845}e^{34},$ $\frac{2}{571}\sqrt{45866}e^{16} + \frac{6}{571}\sqrt{323}e^{45}$	$(\frac{293}{571}, -\frac{353}{571}, -\frac{39}{571}, \frac{124}{571}, \frac{109}{571}, -\frac{60}{571}, \frac{254}{571}, \frac{85}{571}, \frac{233}{571})$ $+\frac{2}{571}\sqrt{152133}e^1 \otimes e_2$	{134589, 139, 14579, 1789, 23478, 2357, 24, 258}
941:25	$0, 0, 0, 0, 0, \frac{4}{2623}\sqrt{39867}e^{12}, \frac{4}{2623}\sqrt{136479}e^{13}, \frac{12}{2623}\sqrt{7954}e^{34},$ $\frac{4}{2623}\sqrt{43553}e^{16} + \frac{12}{2623}\sqrt{10573}e^{45}$	$(\frac{494}{2623}, -\frac{282}{2623}, -\frac{495}{2623}, -\frac{69}{2623}, \frac{775}{2623}, \frac{212}{2623}, -\frac{1}{2623}, -\frac{564}{2623}, \frac{706}{2623})$ $+\frac{4}{2623}\sqrt{153454}e^5 \otimes e_7 + \frac{68}{2623}\sqrt{291}e^1 \otimes e_2$	{13458, 178, 234789, 2589}
941:25	$0, 0, 0, 0, 0, \frac{1}{48}\sqrt{1166}e^{12}, \frac{1}{48}\sqrt{1590}e^{13}, \frac{1}{24}\sqrt{106}e^{34},$ $\frac{1}{24}\sqrt{106}e^{16} + \frac{1}{48}\sqrt{583}e^{45}$	$(-\frac{9}{32}, \frac{37}{48}, -\frac{5}{96}, \frac{7}{48}, \frac{1}{16}, \frac{47}{96}, -\frac{1}{3}, \frac{3}{32}, \frac{5}{24})$ $+\frac{1}{48}\sqrt{4187}e^2 \otimes e_7$	{123, 123458, 14679, 156789, 2456, 268, 34789, 3579}
941:25	$0, 0, 0, 0, 0, \frac{28}{323}\sqrt{6}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{8}{323}\sqrt{231}e^{34},$ $\frac{20}{323}\sqrt{14}e^{16} + \frac{8}{323}\sqrt{483}e^{45}$	$(-\frac{56}{323}, \frac{132}{323}, \frac{6}{323}, -\frac{42}{323}, \frac{62}{323}, \frac{4}{17}, -\frac{50}{323}, -\frac{36}{323}, \frac{20}{323})$ $-\frac{4}{323}\sqrt{1722}e^2 \otimes e_9 + \frac{8}{323}\sqrt{595}e^5 \otimes e_7$	{123458, 1278, 13569, 14679, 2367, 2456, 34789, 589}
941:25	$0, 0, 0, 0, 0, \frac{28}{323}\sqrt{6}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{8}{323}\sqrt{231}e^{34},$ $\frac{20}{323}\sqrt{14}e^{16} + \frac{8}{323}\sqrt{483}e^{45}$	$(-\frac{56}{323}, \frac{132}{323}, \frac{6}{323}, -\frac{42}{323}, \frac{62}{323}, \frac{4}{17}, -\frac{50}{323}, -\frac{36}{323}, \frac{20}{323})$ $+\frac{4}{323}\sqrt{1722}e^2 \otimes e_9 + \frac{8}{323}\sqrt{595}e^5 \otimes e_7$	{123458, 1278, 13569, 14679, 2367, 2456, 34789, 589}
941:25	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{66}e^{12}, \frac{2}{25}\sqrt{33}e^{13}, \frac{2}{25}\sqrt{11}e^{34},$ $\frac{2}{25}\sqrt{11}e^{16} + \frac{1}{25}\sqrt{66}e^{45}$	$(\frac{4}{25}, 0, -\frac{1}{5}, -\frac{2}{25}, \frac{2}{5}, \frac{4}{25}, -\frac{1}{25}, -\frac{7}{25}, \frac{8}{25})$ $+\frac{2}{25}\sqrt{55}e^5 \otimes e_7 + \frac{2}{25}\sqrt{66}e^1 \otimes e_8$	{13456, 167, 378, 458}
941:25	$0, 0, 0, 0, 0, \frac{1}{938}\sqrt{139098}e^{12}, \frac{1}{469}\sqrt{34894}e^{13}, \frac{5}{938}\sqrt{9082}e^{34},$ $\frac{1}{938}\sqrt{90103}e^{16} + \frac{1}{938}\sqrt{93210}e^{45}$	$(-\frac{109}{938}, \frac{145}{469}, -\frac{209}{1876}, \frac{311}{1876}, -\frac{167}{1876}, \frac{181}{938}, -\frac{61}{268}, \frac{51}{938}, \frac{36}{469})$ $+\frac{1}{938}\sqrt{170646}e^4 \otimes e_5 + \frac{1}{938}\sqrt{240195}e^2 \otimes e_8$	{135678, 1468, 358, 478}
941:25	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{966}e^{12}, \frac{2}{937}\sqrt{13685}e^{13}, \frac{7}{937}\sqrt{2806}e^{34},$ $\frac{2}{937}\sqrt{14329}e^{16} + \frac{3}{937}\sqrt{15134}e^{45}$	$(-\frac{77}{937}, \frac{97}{937}, \frac{265}{937}, -\frac{322}{937}, \frac{265}{937}, \frac{20}{937}, \frac{188}{937}, -\frac{57}{937}, -\frac{57}{937})$ $+\frac{1}{937}\sqrt{296562}e^3 \otimes e_9 - \frac{3}{937}\sqrt{26726}e^5 \otimes e_8$	{124789, 12579, 13456, 1368, 24689, 2569, 3457, 378}
941:25	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{966}e^{12}, \frac{2}{937}\sqrt{13685}e^{13}, \frac{7}{937}\sqrt{2806}e^{34},$ $\frac{2}{937}\sqrt{14329}e^{16} + \frac{3}{937}\sqrt{15134}e^{45}$	$(-\frac{77}{937}, \frac{97}{937}, \frac{265}{937}, -\frac{322}{937}, \frac{265}{937}, \frac{20}{937}, \frac{188}{937}, -\frac{57}{937}, -\frac{57}{937})$ $+\frac{1}{937}\sqrt{296562}e^3 \otimes e_9 + \frac{3}{937}\sqrt{26726}e^5 \otimes e_8$	{124789, 12579, 13456, 1368, 24689, 2569, 3457, 378}
941:25	$0, 0, 0, 0, 0, \frac{1}{1169}\sqrt{243102}e^{12}, \frac{8}{1169}\sqrt{2614}e^{13}, \frac{2}{1169}\sqrt{206506}e^{34},$ $\frac{2}{1169}\sqrt{1307}e^{16} + \frac{1}{1169}\sqrt{744990}e^{45}$	$(\frac{188}{1169}, \frac{122}{1169}, -\frac{37}{1169}, -\frac{386}{1169}, \frac{884}{1169}, \frac{310}{1169}, \frac{151}{1169}, -\frac{423}{1169}, \frac{498}{1169})$ $+\frac{6}{1169}\sqrt{69271}e^5 \otimes e_8$	{123457, 12378, 14689, 1569, 23456, 2368, 4789, 579}
941:25	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{195}e^{12}, \frac{36}{2951}\sqrt{435}e^{13}, \frac{72}{2951}\sqrt{435}e^{34},$ $\frac{108}{2951}\sqrt{203}e^{16} + \frac{36}{2951}\sqrt{849}e^{45}$	$(\frac{870}{2951}, -\frac{1074}{2951}, -\frac{385}{2951}, \frac{1305}{2951}, -\frac{639}{2951}, -\frac{204}{2951}, \frac{485}{2951}, \frac{920}{2951}, \frac{666}{2951})$ $+\frac{36}{2951}\sqrt{3786}e^4 \otimes e_5 + \frac{36}{2951}\sqrt{4047}e^1 \otimes e_2$	{1346, 13568, 14678, 1567}
941:25	$0, 0, 0, 0, 0, \frac{12}{3721}\sqrt{3145}e^{12}, \frac{8}{3721}\sqrt{36482}e^{13}, \frac{2}{3721}\sqrt{194361}e^{34},$ $\frac{4}{3721}\sqrt{127058}e^{16} + \frac{6}{3721}\sqrt{25789}e^{45}$	$(\frac{329}{3721}, -\frac{929}{3721}, \frac{987}{3721}, -\frac{290}{3721}, \frac{19}{3721}, -\frac{600}{3721}, \frac{1316}{3721}, \frac{697}{3721}, -\frac{271}{3721})$ $+\frac{204}{3721}\sqrt{111}e^3 \otimes e_9 + \frac{2}{3721}\sqrt{941613}e^1 \otimes e_2$	{14789, 1579, 23457, 2378}
941:25	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{15}e^{12}, \frac{2}{47}\sqrt{62}e^{13}, \frac{2}{47}\sqrt{23}e^{34},$ $\frac{2}{47}\sqrt{6}e^{16} + \frac{2}{47}\sqrt{57}e^{45}$	$(-\frac{6}{47}, \frac{8}{47}, \frac{4}{47}, \frac{6}{47}, -\frac{10}{47}, \frac{2}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{4}{47})$ $+\frac{2}{47}\sqrt{87}e^4 \otimes e_7 + \frac{4}{47}\sqrt{21}e^3 \otimes e_9$	{125679, 1345, 2489, 3678}
941:25	$0, 0, 0, 0, 0, \frac{1}{1503}\sqrt{394310}e^{12}, \frac{2}{1503}\sqrt{93534}e^{13}, \frac{4}{1503}\sqrt{13755}e^{34},$ $\frac{14}{1503}\sqrt{917}e^{16} + \frac{1}{1503}\sqrt{497014}e^{45}$	$(-\frac{140}{1503}, \frac{634}{1503}, -\frac{143}{1503}, -\frac{70}{501}, \frac{188}{501}, \frac{494}{1503}, -\frac{283}{1503}, -\frac{353}{1503}, \frac{118}{501})$ $+\frac{2}{1503}\sqrt{299859}e^5 \otimes e_8 + \frac{2}{1503}\sqrt{306278}e^2 \otimes e_7$	{12345, 1238, 146789, 15679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:25	$0, 0, 0, 0, 0, \frac{5}{209}\sqrt{46}e^{12}, \frac{10}{209}\sqrt{51}e^{13}, \frac{5}{209}\sqrt{82}e^{34},$ $\frac{10}{209}\sqrt{15}e^{16} + \frac{5}{209}\sqrt{214}e^{45}$	$(\frac{35}{209}, -\frac{15}{209}, -\frac{5}{19}, \frac{30}{209}, \frac{25}{209}, \frac{20}{209}, -\frac{20}{209}, -\frac{25}{209}, \frac{5}{19})$ $+ \frac{10}{209}\sqrt{43}e^1 \otimes e_2 + \frac{10}{209}\sqrt{62}e^5 \otimes e_8 + \frac{25}{209}\sqrt{14}e^4 \otimes e_7$	{1345, 2489}
941:25	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574}e^{13}, \frac{18}{259}\sqrt{14}e^{34},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{3}{259}\sqrt{714}e^{45}$	$(-\frac{6}{37}, \frac{69}{259}, \frac{48}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{27}{259}, \frac{6}{259}, -\frac{15}{259}, -\frac{15}{259})$ $+ \frac{15}{259}\sqrt{42}e^5 \otimes e_8 + \frac{3}{259}\sqrt{1414}e^3 \otimes e_9 + \frac{3}{259}\sqrt{826}e^2 \otimes e_7$	{24689, 2569, 3457, 378}
941:25	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574}e^{13}, \frac{18}{259}\sqrt{14}e^{34},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{3}{259}\sqrt{714}e^{45}$	$(-\frac{6}{37}, \frac{69}{259}, \frac{48}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{27}{259}, \frac{6}{259}, -\frac{15}{259}, -\frac{15}{259})$ $- \frac{15}{259}\sqrt{42}e^5 \otimes e_8 + \frac{3}{259}\sqrt{1414}e^3 \otimes e_9 + \frac{3}{259}\sqrt{826}e^2 \otimes e_7$	{24689, 2569, 3457, 378}
941:25	$0, 0, 0, 0, 0, \frac{21}{463}\sqrt{22}e^{12}, \frac{2}{463}\sqrt{8547}e^{13}, \frac{14}{463}\sqrt{55}e^{34},$ $\frac{14}{463}\sqrt{55}e^{16} + \frac{1}{463}\sqrt{30954}e^{45}$	$(-\frac{56}{463}, \frac{96}{463}, \frac{61}{463}, -\frac{98}{463}, \frac{82}{463}, \frac{40}{463}, \frac{5}{463}, -\frac{37}{463}, -\frac{16}{463})$ $+ \frac{10}{463}\sqrt{385}e^5 \otimes e_7 + \frac{6}{463}\sqrt{770}e^3 \otimes e_9$	{124679, 13458, 2589, 367}
941:25	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{2}{11}e^{13}, \frac{2}{11}e^{34}, \frac{2}{11}e^{16} + \frac{1}{11}\sqrt{2}e^{45}$	$(0, 0, \frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, \frac{1}{11}, -\frac{1}{11}, 0)$ $+ \frac{2}{11}\sqrt{2}e^1 \otimes e_8 + \frac{2}{11}\sqrt{2}e^3 \otimes e_9 + \frac{2}{11}e^5 \otimes e_7$	{13456, 378}
941:25	$0, 0, 0, 0, 0, \frac{10}{241}\sqrt{6}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{5}{241}\sqrt{138}e^{34},$ $\frac{10}{241}\sqrt{35}e^{16} + \frac{5}{241}\sqrt{146}e^{45}$	$(\frac{15}{241}, -\frac{35}{241}, \frac{45}{241}, -\frac{50}{241}, \frac{45}{241}, -\frac{20}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{5}{241})$ $+ \frac{10}{241}\sqrt{62}e^1 \otimes e_2 - \frac{55}{241}\sqrt{2}e^5 \otimes e_8 + \frac{5}{241}\sqrt{390}e^3 \otimes e_9$	{14789, 1579, 23457, 2378}
941:25	$0, 0, 0, 0, 0, \frac{10}{241}\sqrt{6}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{5}{241}\sqrt{138}e^{34},$ $\frac{10}{241}\sqrt{35}e^{16} + \frac{5}{241}\sqrt{146}e^{45}$	$(\frac{15}{241}, -\frac{35}{241}, \frac{45}{241}, -\frac{50}{241}, \frac{45}{241}, -\frac{20}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{5}{241})$ $+ \frac{10}{241}\sqrt{62}e^1 \otimes e_2 + \frac{55}{241}\sqrt{2}e^5 \otimes e_8 + \frac{5}{241}\sqrt{390}e^3 \otimes e_9$	{14789, 1579, 23457, 2378}
941:25	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{26}e^{12}, \frac{2}{25}\sqrt{13}e^{13}, \frac{1}{25}\sqrt{286}e^{34},$ $\frac{1}{25}\sqrt{286}e^{16} + \frac{2}{25}\sqrt{39}e^{45}$	$(\frac{7}{25}, -\frac{1}{5}, -\frac{1}{5}, -\frac{1}{25}, \frac{2}{25}, \frac{2}{25}, \frac{2}{25}, -\frac{6}{25}, \frac{9}{25})$ $+ \frac{1}{25}\sqrt{546}e^1 \otimes e_8$	{1234579, 129, 13467, 156, 23689, 2456789, 358, 478}
941:25	$0, 0, 0, 0, 0, \frac{2}{189}\sqrt{697}e^{12}, \frac{2}{189}\sqrt{2870}e^{13}, \frac{2}{189}\sqrt{82}e^{34},$ $\frac{2}{189}\sqrt{246}e^{16} + \frac{4}{189}\sqrt{410}e^{45}$	$(\frac{5}{21}, -\frac{37}{189}, -\frac{53}{189}, \frac{74}{189}, -\frac{1}{9}, \frac{8}{189}, -\frac{8}{189}, \frac{1}{9}, \frac{53}{189})$ $+ \frac{2}{189}\sqrt{2993}e^1 \otimes e_2 + \frac{2}{189}\sqrt{3977}e^4 \otimes e_7$	{1345, 17, 235789, 2489}
941:26	$0, 0, 0, 0, 0, \frac{8}{1107}\sqrt{110}e^{12}, \frac{8}{1107}\sqrt{1705}e^{13}, \frac{20}{1107}\sqrt{418}e^{34},$ $\frac{8}{1107}\sqrt{1661}e^{26} + \frac{4}{1107}\sqrt{10538}e^{45}$	$(-\frac{20}{1107}, -\frac{16}{1107}, \frac{100}{369}, -\frac{352}{1107}, \frac{100}{369}, -\frac{4}{123}, \frac{280}{1107}, -\frac{52}{1107}, -\frac{52}{1107})$ $+ \frac{4}{1107}\sqrt{18238}e^5 \otimes e_8 + \frac{4}{1107}\sqrt{24970}e^3 \otimes e_9$	{123456, 12368, 1345, 138, 2489, 259, 4689, 569}
941:26	$0, 0, 0, 0, 0, \frac{8}{1107}\sqrt{110}e^{12}, \frac{8}{1107}\sqrt{1705}e^{13}, \frac{20}{1107}\sqrt{418}e^{34},$ $\frac{8}{1107}\sqrt{1661}e^{26} + \frac{4}{1107}\sqrt{10538}e^{45}$	$(-\frac{20}{1107}, -\frac{16}{1107}, \frac{100}{369}, -\frac{352}{1107}, \frac{100}{369}, -\frac{4}{123}, \frac{280}{1107}, -\frac{52}{1107}, -\frac{52}{1107})$ $- \frac{4}{1107}\sqrt{18238}e^5 \otimes e_8 + \frac{4}{1107}\sqrt{24970}e^3 \otimes e_9$	{123456, 12368, 1345, 138, 2489, 259, 4689, 569}
941:26	$0, 0, 0, 0, 0, \frac{2}{1595}\sqrt{31229}e^{12}, \frac{1}{1595}\sqrt{29058}e^{13}, \frac{1}{1595}\sqrt{204742}e^{34},$ $\frac{4}{1595}\sqrt{12191}e^{26} + \frac{1}{1595}\sqrt{52438}e^{45}$	$(-\frac{11}{145}, \frac{7}{145}, \frac{40}{319}, -\frac{2}{11}, \frac{323}{1595}, -\frac{4}{145}, \frac{79}{1595}, -\frac{18}{319}, \frac{3}{145})$ $+ \frac{1}{1595}\sqrt{290246}e^2 \otimes e_8 + \frac{4}{1595}\sqrt{11690}e^3 \otimes e_9$	{129, 145689, 2346, 358}
941:26	$0, 0, 0, 0, 0, \frac{24}{4025}\sqrt{93}e^{12}, \frac{72}{4025}\sqrt{341}e^{13}, \frac{108}{4025}\sqrt{310}e^{34},$ $\frac{6}{4025}\sqrt{74121}e^{26} + \frac{6}{4025}\sqrt{23901}e^{45}$	$(-\frac{32}{4025}, -\frac{43}{575}, \frac{208}{805}, \frac{104}{805}, -\frac{1154}{4025}, -\frac{333}{4025}, \frac{144}{575}, \frac{312}{805}, -\frac{634}{4025})$ $+ \frac{12}{4025}\sqrt{50406}e^3 \otimes e_9 + \frac{54}{4025}\sqrt{1581}e^4 \otimes e_5$	{2489, 259, 4689, 569}
941:26	$0, 0, 0, 0, 0, \frac{2}{701}\sqrt{23865}e^{12}, \frac{2}{701}\sqrt{14245}e^{13}, \frac{4}{701}\sqrt{4810}e^{34},$ $\frac{8}{701}\sqrt{2035}e^{26} + \frac{16}{701}\sqrt{185}e^{45}$	$(-\frac{118}{701}, \frac{159}{701}, -\frac{93}{701}, \frac{285}{701}, -\frac{85}{701}, \frac{41}{701}, -\frac{211}{701}, \frac{192}{701}, \frac{200}{701})$ $+ \frac{2}{701}\sqrt{43845}e^4 \otimes e_5 + \frac{4}{701}\sqrt{17390}e^2 \otimes e_7$	{2468, 256, 347, 3578}
941:26	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{73902}e^{12}, \frac{10}{377}\sqrt{339}e^{13}, \frac{2}{377}\sqrt{20001}e^{34},$ $\frac{8}{377}\sqrt{339}e^{26} + \frac{9}{377}\sqrt{226}e^{45}$	$(\frac{218}{377}, -\frac{72}{377}, -\frac{99}{377}, -\frac{22}{377}, \frac{96}{377}, \frac{146}{377}, \frac{119}{377}, -\frac{121}{377}, \frac{74}{377})$ $+ \frac{2}{377}\sqrt{52206}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 235678, 2468, 3578, 48}
941:26	$0, 0, 0, 0, 0, \frac{1}{265}\sqrt{4814}e^{12}, \frac{8}{265}\sqrt{58}e^{13}, \frac{1}{265}\sqrt{7598}e^{34},$ $\frac{1}{265}\sqrt{4814}e^{26} + \frac{8}{265}\sqrt{58}e^{45}$	$(\frac{3}{265}, \frac{19}{265}, -\frac{9}{53}, \frac{7}{53}, \frac{6}{265}, \frac{22}{265}, -\frac{42}{265}, -\frac{2}{53}, \frac{41}{265})$ $+ \frac{1}{265}\sqrt{9454}e^2 \otimes e_8 + \frac{4}{265}\sqrt{290}e^4 \otimes e_5$	{2346, 2567, 358, 478}
941:26	$0, 0, 0, 0, 0, \frac{1}{539}\sqrt{15070}e^{12}, \frac{2}{539}\sqrt{8083}e^{13}, \frac{2}{539}\sqrt{8905}e^{34},$ $\frac{8}{539}\sqrt{411}e^{26} + \frac{1}{539}\sqrt{8494}e^{45}$	$(\frac{10}{49}, -\frac{8}{49}, \frac{71}{539}, -\frac{2}{11}, \frac{32}{539}, \frac{2}{49}, \frac{181}{539}, -\frac{27}{539}, -\frac{6}{49})$ $+ \frac{16}{539}\sqrt{274}e^3 \otimes e_9 + \frac{2}{539}\sqrt{15070}e^1 \otimes e_8$	{12579, 15679, 23678, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:26	$0, 0, 0, 0, 0, \frac{5}{17}\sqrt{2}e^{12}, \frac{2}{17}\sqrt{5}e^{13}, \frac{1}{17}\sqrt{70}e^{34},$ $\frac{5}{17}\sqrt{2}e^{26} + \frac{2}{17}\sqrt{5}e^{45}$	$(-\frac{1}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{1}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{5}{17})$ $+\frac{1}{17}\sqrt{110}e^2 \otimes e_8 + \frac{2}{17}\sqrt{10}e^4 \otimes e_7$	{136789, 145689, 2346, 2567}
941:26	$0, 0, 0, 0, 0, \frac{3}{379}\sqrt{1002}e^{12}, \frac{3}{379}\sqrt{4342}e^{13}, \frac{1}{379}\sqrt{334}e^{34},$ $\frac{3}{379}\sqrt{1002}e^{26} + \frac{2}{379}\sqrt{6513}e^{45}$	$(\frac{54}{379}, \frac{27}{379}, -\frac{76}{379}, -\frac{37}{379}, \frac{145}{379}, \frac{81}{379}, -\frac{22}{379}, -\frac{113}{379}, \frac{108}{379})$ $+\frac{1}{379}\sqrt{60454}e^5 \otimes e_7 + \frac{2}{379}\sqrt{13026}e^1 \otimes e_8$	{12345, 127, 13456, 167}
941:26	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{1870}e^{12}, \frac{1}{89}\sqrt{2090}e^{13}, \frac{12}{89}\sqrt{55}e^{34},$ $\frac{1}{89}\sqrt{1870}e^{26} + \frac{1}{89}\sqrt{2090}e^{45}$	$(\frac{17}{89}, -\frac{1}{89}, -\frac{21}{178}, \frac{125}{178}, -\frac{95}{178}, \frac{16}{89}, \frac{13}{178}, \frac{52}{89}, \frac{15}{89})$ $+\frac{2}{89}\sqrt{4015}e^4 \otimes e_5$	{2346, 23568, 24678, 2567, 34, 358, 478, 57}
941:26	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{35}e^{12}, \frac{1}{43}\sqrt{1365}e^{13}, \frac{1}{43}\sqrt{770}e^{34},$ $\frac{3}{43}\sqrt{35}e^{26} + \frac{1}{43}\sqrt{1365}e^{45}$	$(-\frac{9}{43}, \frac{15}{43}, -\frac{5}{86}, -\frac{5}{86}, \frac{47}{86}, \frac{6}{43}, -\frac{23}{86}, -\frac{5}{43}, \frac{21}{43})$ $+\frac{1}{43}\sqrt{2590}e^5 \otimes e_7$	{123569, 124679, 1359, 1479, 237, 245, 367, 456}
941:26	$0, 0, 0, 0, 0, \frac{1}{1457}\sqrt{374210}e^{12}, \frac{4}{1457}\sqrt{16270}e^{13}, \frac{2}{1457}\sqrt{317265}e^{34},$ $\frac{1}{1457}\sqrt{27659}e^{26} + \frac{1}{1457}\sqrt{1194218}e^{45}$	$(\frac{230}{1457}, \frac{184}{1457}, -\frac{45}{1457}, -\frac{492}{1457}, \frac{1090}{1457}, \frac{414}{1457}, \frac{185}{1457}, -\frac{537}{1457}, \frac{598}{1457})$ $+\frac{4}{1457}\sqrt{242423}e^5 \otimes e_8$	{123457, 12378, 134567, 13678, 246789, 25679, 4789, 579}
941:26	$0, 0, 0, 0, 0, \frac{5}{143}\sqrt{154}e^{12}, \frac{6}{143}\sqrt{77}e^{13}, \frac{14}{143}\sqrt{11}e^{34},$ $\frac{5}{143}\sqrt{22}e^{26} + \frac{3}{143}\sqrt{154}e^{45}$	$(-\frac{24}{143}, \frac{40}{143}, -\frac{1}{11}, -\frac{4}{143}, \frac{60}{143}, \frac{16}{143}, -\frac{37}{143}, -\frac{17}{143}, \frac{56}{143})$ $+\frac{10}{143}\sqrt{77}e^5 \otimes e_8 + \frac{2}{143}\sqrt{2849}e^2 \otimes e_7$	{146789, 15679, 3457, 378}
941:26	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{42}e^{12}, \frac{7}{23}\sqrt{6}e^{13}, \frac{3}{23}\sqrt{14}e^{34},$ $\frac{1}{23}\sqrt{42}e^{26} + \frac{7}{23}\sqrt{6}e^{45}$	$(-\frac{2}{23}, \frac{6}{23}, -\frac{6}{23}, \frac{13}{23}, -\frac{3}{23}, \frac{4}{23}, -\frac{8}{23}, \frac{7}{23}, \frac{10}{23})$ $+\frac{1}{23}\sqrt{798}e^4 \otimes e_7$	{123469, 125679, 1349, 1579, 2378, 2458, 3678, 4568}
941:26	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{427}e^{12}, \frac{1}{57}\sqrt{35}e^{13}, \frac{4}{57}\sqrt{14}e^{34},$ $\frac{1}{57}\sqrt{14}e^{26} + \frac{1}{57}\sqrt{133}e^{45}$	$(\frac{4}{57}, \frac{5}{57}, -\frac{13}{57}, \frac{1}{57}, \frac{11}{57}, \frac{3}{57}, -\frac{3}{57}, -\frac{10}{57}, \frac{14}{57})$ $+\frac{1}{57}\sqrt{679}e^1 \otimes e_8 + \frac{1}{57}\sqrt{742}e^2 \otimes e_7$	{123459, 1679, 2468, 3578}
941:26	$0, 0, 0, 0, 0, \frac{6}{2035}\sqrt{4213}e^{12}, \frac{2}{2035}\sqrt{149370}e^{13}, \frac{1}{2035}\sqrt{81962}e^{34},$ $\frac{3}{2035}\sqrt{13022}e^{26} + \frac{1}{2035}\sqrt{507858}e^{45}$	$(-\frac{36}{185}, \frac{21}{185}, \frac{449}{2035}, -\frac{2}{11}, \frac{436}{2035}, -\frac{3}{37}, \frac{53}{2035}, \frac{79}{2035}, \frac{6}{185})$ $+\frac{12}{2035}\sqrt{4979}e^3 \otimes e_9 + \frac{1}{2035}\sqrt{699358}e^5 \otimes e_7$	{1234568, 13458, 2589, 5689}
941:26	$0, 0, 0, 0, 0, \frac{3}{1529}\sqrt{13530}e^{12}, \frac{18}{1529}\sqrt{2993}e^{13}, \frac{54}{1529}\sqrt{205}e^{34},$ $\frac{3}{1529}\sqrt{1599}e^{26} + \frac{3}{1529}\sqrt{69126}e^{45}$	$(-\frac{10}{139}, -\frac{8}{139}, \frac{821}{1529}, -\frac{2}{11}, -\frac{8}{1529}, -\frac{18}{139}, \frac{711}{1529}, \frac{543}{1529}, -\frac{26}{139})$ $+\frac{12}{1529}\sqrt{19311}e^3 \otimes e_9$	{123456, 12368, 1345, 138, 2489, 259, 4689, 569}
941:26	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{2}{369}\sqrt{262}e^{34},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{2}{369}\sqrt{374}e^{45}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $-\frac{2}{369}\sqrt{334}e^5 \otimes e_8 + \frac{2}{369}\sqrt{538}e^3 \otimes e_9 + \frac{4}{369}\sqrt{123}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:26	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{2}{369}\sqrt{262}e^{34},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{2}{369}\sqrt{374}e^{45}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $+\frac{2}{369}\sqrt{334}e^5 \otimes e_8 + \frac{2}{369}\sqrt{538}e^3 \otimes e_9 + \frac{4}{369}\sqrt{123}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:26	$0, 0, 0, 0, 0, \frac{1}{2203}\sqrt{158730}e^{12}, \frac{1}{2203}\sqrt{498982}e^{13}, \frac{13}{2203}\sqrt{814}e^{34},$ $\frac{1}{2203}\sqrt{562474}e^{26} + \frac{2}{2203}\sqrt{26455}e^{45}$	$(-\frac{563}{2203}, \frac{312}{2203}, \frac{468}{2203}, -\frac{54}{2203}, \frac{115}{2203}, -\frac{251}{2203}, -\frac{95}{2203}, \frac{414}{2203}, \frac{61}{2203})$ $+\frac{1}{2203}\sqrt{775742}e^2 \otimes e_7 + \frac{1}{2203}\sqrt{818070}e^3 \otimes e_9$	{146789, 15679, 3457, 378}
941:26	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{16}{999}\sqrt{211}e^{13}, \frac{8}{999}\sqrt{478}e^{34},$ $\frac{16}{999}\sqrt{239}e^{26} + \frac{8}{999}\sqrt{422}e^{45}$	$(-\frac{184}{999}, \frac{112}{999}, \frac{56}{333}, -\frac{128}{999}, \frac{56}{333}, -\frac{8}{111}, -\frac{16}{999}, \frac{40}{999}, \frac{40}{999})$ $+\frac{32}{111}e^2 \otimes e_7 + \frac{8}{999}\sqrt{1606}e^3 \otimes e_9 + \frac{8}{999}\sqrt{706}e^5 \otimes e_8$	{146789, 15679, 3457, 378}
941:26	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{16}{999}\sqrt{211}e^{13}, \frac{8}{999}\sqrt{478}e^{34},$ $\frac{16}{999}\sqrt{239}e^{26} + \frac{8}{999}\sqrt{422}e^{45}$	$(-\frac{184}{999}, \frac{112}{999}, \frac{56}{333}, -\frac{128}{999}, \frac{56}{333}, -\frac{8}{111}, -\frac{16}{999}, \frac{40}{999}, \frac{40}{999})$ $+\frac{32}{111}e^2 \otimes e_7 + \frac{8}{999}\sqrt{1606}e^3 \otimes e_9 - \frac{8}{999}\sqrt{706}e^5 \otimes e_8$	{146789, 15679, 3457, 378}
941:26	$0, 0, 0, 0, 0, \frac{5}{301}\sqrt{1434}e^{12}, \frac{2}{301}\sqrt{9082}e^{13}, \frac{2}{301}\sqrt{239}e^{34},$ $\frac{2}{301}\sqrt{12667}e^{26} + \frac{1}{301}\sqrt{8126}e^{45}$	$(-\frac{14}{43}, \frac{120}{301}, -\frac{3}{43}, \frac{72}{301}, \frac{10}{43}, \frac{22}{301}, -\frac{17}{43}, \frac{51}{301}, \frac{142}{301})$ $+\frac{4}{301}\sqrt{7409}e^2 \otimes e_7$	{1234589, 1239, 145679, 16789, 246, 2568, 3478, 357}
941:26	$0, 0, 0, 0, 0, \frac{1}{619}\sqrt{7654}e^{12}, \frac{2}{619}\sqrt{8455}e^{13}, \frac{2}{619}\sqrt{4094}e^{34},$ $\frac{1}{619}\sqrt{3026}e^{26} + \frac{3}{619}\sqrt{3026}e^{45}$	$(-\frac{86}{619}, \frac{36}{619}, \frac{75}{619}, \frac{78}{619}, -\frac{92}{619}, -\frac{50}{619}, -\frac{11}{619}, \frac{153}{619}, -\frac{14}{619})$ $+\frac{2}{619}\sqrt{11659}e^4 \otimes e_7 + \frac{4}{619}\sqrt{3293}e^3 \otimes e_9$	{123456, 1345, 2489, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:26	$0, 0, 0, 0, 0, \frac{14}{1161}\sqrt{1145}e^{12}, \frac{14}{1161}\sqrt{85}e^{13}, \frac{28}{1161}\sqrt{530}e^{34},$ $\frac{28}{1161}\sqrt{105}e^{26} + \frac{112}{1161}\sqrt{10}e^{45}$	$(\frac{458}{1161}, -\frac{7}{43}, -\frac{317}{1161}, \frac{95}{387}, -\frac{205}{1161}, \frac{269}{1161}, \frac{47}{387}, -\frac{32}{1161}, \frac{80}{1161})$ $+ \frac{140}{1161}\sqrt{29}e^1 \otimes e_8 + \frac{14}{1161}\sqrt{2285}e^4 \otimes e_5$	{235678, 2468, 3578, 48}
941:26	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{462}e^{12}, \frac{4}{77}\sqrt{21}e^{13}, \frac{10}{77}\sqrt{7}e^{34},$ $\frac{2}{11}\sqrt{3}e^{26} + \frac{3}{77}\sqrt{42}e^{45}$	$(0, 0, \frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, 0, \frac{1}{11}, -\frac{1}{11}, 0)$ $+ \frac{2}{77}\sqrt{231}e^2 \otimes e_8 + \frac{2}{77}\sqrt{77}e^5 \otimes e_7 + \frac{4}{77}\sqrt{21}e^3 \otimes e_9$	{129, 2346}
941:26	$0, 0, 0, 0, 0, \frac{1}{45}\sqrt{646}e^{12}, \frac{2}{45}\sqrt{102}e^{13}, \frac{1}{45}\sqrt{782}e^{34},$ $\frac{1}{45}\sqrt{646}e^{26} + \frac{2}{45}\sqrt{102}e^{45}$	$(-\frac{1}{45}, \frac{7}{45}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{5}, \frac{2}{15}, -\frac{2}{15}, -\frac{2}{9}, \frac{13}{45})$ $+ \frac{1}{45}\sqrt{1326}e^2 \otimes e_8$	{1234579, 129, 136789, 145689, 2346, 2567, 358, 478}
941:26	$0, 0, 0, 0, 0, \frac{1}{595}\sqrt{2926}e^{12}, \frac{4}{595}\sqrt{2090}e^{13}, \frac{38}{595}\sqrt{33}e^{34},$ $\frac{38}{595}\sqrt{11}e^{26} + \frac{1}{595}\sqrt{72314}e^{45}$	$(-\frac{2}{85}, \frac{104}{595}, -\frac{27}{119}, \frac{12}{119}, \frac{134}{595}, \frac{18}{119}, -\frac{149}{595}, -\frac{15}{119}, \frac{194}{595})$ $+ \frac{24}{595}\sqrt{209}e^4 \otimes e_7 + \frac{4}{595}\sqrt{6479}e^5 \otimes e_8$	{125679, 1579, 2378, 3678}
941:26	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{165}e^{12}, \frac{1}{19}\sqrt{165}e^{13}, \frac{2}{19}\sqrt{55}e^{34},$ $\frac{1}{19}\sqrt{165}e^{26} + \frac{1}{19}\sqrt{165}e^{45}$	$(\frac{3}{19}, 0, -\frac{5}{38}, -\frac{5}{38}, \frac{11}{38}, \frac{3}{19}, \frac{1}{38}, -\frac{5}{19}, \frac{3}{19})$ $+ \frac{10}{19}\sqrt{3}e^2 \otimes e_8 + \frac{2}{19}\sqrt{35}e^5 \otimes e_7$	{1234579, 129, 2346, 2567}
941:27	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{210}e^{12}, \frac{1}{77}\sqrt{2030}e^{13}, \frac{1}{77}\sqrt{910}e^{14} + \frac{2}{77}\sqrt{210}e^{35},$ $\frac{1}{77}\sqrt{70}e^{16}$	$(\frac{2}{11}, -\frac{3}{11}, \frac{3}{11}, -\frac{1}{11}, -\frac{2}{11}, -\frac{1}{11}, \frac{5}{11}, \frac{1}{11}, \frac{1}{11})$ $+ \frac{1}{77}\sqrt{2730}e^1 \otimes e_2 + \frac{8}{77}\sqrt{35}e^3 \otimes e_5$	{1349, 14579, 237, 25}
941:27	$0, 0, 0, 0, 0, \frac{93}{6589}\sqrt{34}e^{12}, \frac{62}{6589}\sqrt{803}e^{13},$ $\frac{31}{6589}\sqrt{1330}e^{14} + \frac{31}{6589}\sqrt{2722}e^{35}, \frac{62}{6589}\sqrt{614}e^{16}$	$(\frac{31}{6589}, -\frac{930}{6589}, \frac{93}{6589}, \frac{1147}{6589}, \frac{1085}{6589}, -\frac{899}{6589}, \frac{124}{6589}, \frac{1178}{6589}, -\frac{868}{6589})$ $+ \frac{31}{6589}\sqrt{3130}e^1 \otimes e_2 + \frac{62}{6589}\sqrt{1289}e^3 \otimes e_9 + \frac{62}{6589}\sqrt{982}e^5 \otimes e_7$	{179, 2378}
941:27	$0, 0, 0, 0, 0, \frac{60}{557}\sqrt{7}e^{12}, \frac{36}{557}\sqrt{70}e^{13}, \frac{20}{557}\sqrt{42}e^{14} + \frac{4}{557}\sqrt{1505}e^{35},$ $\frac{4}{557}\sqrt{1505}e^{16}$	$(-\frac{133}{557}, \frac{102}{557}, \frac{116}{557}, \frac{263}{557}, \frac{14}{557}, -\frac{31}{557}, -\frac{17}{557}, \frac{130}{557}, -\frac{164}{557})$ $+ \frac{8}{557}\sqrt{2065}e^4 \otimes e_7 + \frac{8}{557}\sqrt{2310}e^3 \otimes e_9$	{123456, 15789, 2357, 45689}
941:27	$0, 0, 0, 0, 0, \frac{5}{419}\sqrt{586}e^{12}, \frac{1}{419}\sqrt{31058}e^{13}, \frac{1}{419}\sqrt{39262}e^{14} + \frac{5}{419}\sqrt{586}e^{35},$ $\frac{2}{419}\sqrt{6153}e^{16}$	$(-\frac{92}{419}, \frac{70}{419}, \frac{190}{419}, \frac{179}{419}, -\frac{103}{419}, \frac{22}{419}, \frac{98}{419}, \frac{87}{419}, -\frac{114}{419})$ $+ \frac{1}{419}\sqrt{101378}e^3 \otimes e_5 + \frac{1}{419}\sqrt{117786}e^4 \otimes e_9$	{12346, 124567, 3679, 569}
941:27	$0, 0, 0, 0, 0, \frac{3}{367}\sqrt{1561}e^{12}, \frac{3}{367}\sqrt{455}e^{13}, \frac{3}{367}\sqrt{1547}e^{14} + \frac{6}{367}\sqrt{413}e^{35},$ $\frac{6}{367}\sqrt{595}e^{16}$	$(\frac{53}{367}, -\frac{76}{367}, -\frac{50}{367}, -\frac{10}{367}, \frac{93}{367}, -\frac{23}{367}, \frac{3}{367}, \frac{43}{367}, \frac{30}{367})$ $+ \frac{6}{367}\sqrt{546}e^1 \otimes e_4 + \frac{9}{367}\sqrt{273}e^5 \otimes e_9$	{129, 13567, 24679, 345}
941:27	$0, 0, 0, 0, 0, \frac{4}{1135}\sqrt{281}e^{12}, \frac{2}{1135}\sqrt{120830}e^{13},$ $\frac{2}{1135}\sqrt{25571}e^{14} + \frac{2}{1135}\sqrt{23042}e^{35}, \frac{2}{1135}\sqrt{23042}e^{16}$	$(-\frac{264}{1135}, \frac{539}{1135}, \frac{241}{1135}, \frac{184}{1135}, -\frac{321}{1135}, \frac{55}{227}, -\frac{23}{1135}, -\frac{16}{227}, \frac{11}{1135})$ $+ \frac{2}{1135}\sqrt{153426}e^2 \otimes e_7 + \frac{8}{1135}\sqrt{8711}e^3 \otimes e_5$	{123, 15679, 2456, 3479}
941:27	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{30}e^{12}, \frac{1}{43}\sqrt{78}e^{13}, \frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{30}e^{35},$ $\frac{1}{43}\sqrt{22}e^{16}$	$(\frac{7}{86}, -\frac{6}{43}, \frac{7}{43}, -\frac{5}{86}, -\frac{6}{43}, -\frac{5}{86}, \frac{21}{86}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^1 \otimes e_4 + \frac{3}{43}\sqrt{26}e^3 \otimes e_9$	{1279, 1356, 2469, 3457}
941:27	$0, 0, 0, 0, 0, \frac{1}{209}\sqrt{321}e^{12}, \frac{3}{209}\sqrt{43}e^{13}, \frac{1}{209}\sqrt{255}e^{14} + \frac{2}{209}\sqrt{115}e^{35},$ $\frac{2}{209}\sqrt{93}e^{16}$	$(\frac{3}{209}, 0, -\frac{8}{209}, -\frac{4}{209}, \frac{7}{209}, \frac{3}{209}, -\frac{5}{209}, -\frac{1}{209}, \frac{6}{209})$ $+ \frac{1}{209}\sqrt{417}e^5 \otimes e_9 + \frac{2}{209}\sqrt{66}e^2 \otimes e_8 + \frac{8}{209}\sqrt{5}e^4 \otimes e_7$	{129, 24679}
941:27	$0, 0, 0, 0, 0, \frac{29}{5533}\sqrt{1442}e^{12}, \frac{29}{5533}\sqrt{834}e^{13},$ $\frac{116}{5533}\sqrt{91}e^{14} + \frac{58}{5533}\sqrt{974}e^{35}, \frac{290}{5533}\sqrt{19}e^{16}$	$(-\frac{899}{5533}, \frac{1131}{5533}, \frac{174}{5533}, \frac{1189}{5533}, \frac{116}{5533}, \frac{232}{5533}, -\frac{725}{5533}, \frac{290}{5533}, -\frac{667}{5533})$ $+ \frac{29}{5533}\sqrt{2782}e^2 \otimes e_8 + \frac{29}{5533}\sqrt{3206}e^5 \otimes e_7 + \frac{58}{5533}\sqrt{1039}e^3 \otimes e_9$	{1279, 378}
941:27	$0, 0, 0, 0, 0, \frac{12}{181}\sqrt{143}e^{12}, \frac{30}{181}\sqrt{22}e^{13}, \frac{30}{181}\sqrt{11}e^{14} + \frac{6}{181}\sqrt{22}e^{35},$ $\frac{6}{181}\sqrt{22}e^{16}$	$(-\frac{48}{181}, \frac{129}{181}, -\frac{21}{181}, \frac{56}{181}, \frac{29}{181}, \frac{81}{181}, -\frac{69}{181}, \frac{8}{181}, \frac{33}{181})$ $+ \frac{30}{181}\sqrt{66}e^2 \otimes e_7$	{123489, 12359, 145678, 167, 2469, 25689, 3457, 378}
941:27	$0, 0, 0, 0, 0, \frac{4}{1297}\sqrt{615}e^{12}, \frac{4}{1297}\sqrt{753}e^{13}, \frac{16}{1297}\sqrt{66}e^{14} + \frac{20}{1297}\sqrt{39}e^{35},$ $\frac{12}{1297}\sqrt{122}e^{16}$	$(\frac{44}{1297}, -\frac{114}{1297}, -\frac{2}{1297}, \frac{20}{1297}, \frac{66}{1297}, -\frac{70}{1297}, \frac{42}{1297}, \frac{64}{1297}, -\frac{26}{1297})$ $+ \frac{120}{1297}e^5 \otimes e_7 + \frac{12}{1297}\sqrt{141}e^1 \otimes e_4 + \frac{12}{1297}\sqrt{161}e^3 \otimes e_9$	{1279, 1356}
941:27	$0, 0, 0, 0, 0, \frac{4}{353}\sqrt{1245}e^{12}, \frac{4}{353}\sqrt{390}e^{13}, \frac{4}{353}\sqrt{390}e^{14} + \frac{180}{353}e^{35},$ $\frac{4}{353}\sqrt{1245}e^{16}$	$(-\frac{73}{353}, \frac{114}{353}, \frac{88}{353}, \frac{67}{353}, -\frac{94}{353}, \frac{41}{353}, \frac{15}{353}, -\frac{6}{353}, -\frac{32}{353})$ $+ \frac{24}{353}\sqrt{65}e^2 \otimes e_8 + \frac{24}{353}\sqrt{65}e^3 \otimes e_9$	{129, 134678, 24679, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:27	$0, 0, 0, 0, 0, \frac{78}{1661}\sqrt{46e^{12}}, \frac{26}{1661}\sqrt{282e^{13}}, \frac{52}{1661}\sqrt{78e^{14}} + \frac{13}{1661}\sqrt{2370e^{35}}, \frac{13}{1661}\sqrt{1182e^{16}}$	$(-\frac{338}{1661}, \frac{52}{151}, -\frac{52}{1661}, \frac{403}{1661}, \frac{117}{1661}, \frac{234}{1661}, -\frac{390}{1661}, \frac{65}{1661}, -\frac{104}{1661}) + \frac{156}{1661}\sqrt{19e^4} \otimes e_9 + \frac{39}{1661}\sqrt{238e^5} \otimes e_7 + \frac{39}{1661}\sqrt{462e^2} \otimes e_8$	{23569, 2679}
941:27	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{21e^{12}}, \frac{1}{11}\sqrt{21e^{13}}, \frac{1}{11}\sqrt{21e^{14}} + \frac{2}{11}\sqrt{14e^{35}}, \frac{2}{11}\sqrt{14e^{16}}$	$(-\frac{1}{11}, 0, -\frac{1}{11}, \frac{5}{11}, \frac{5}{11}, -\frac{1}{11}, -\frac{2}{11}, \frac{4}{11}, -\frac{2}{11}) + \frac{1}{11}\sqrt{105e^5} \otimes e_9 + \frac{2}{11}\sqrt{7e^4} \otimes e_7$	{13567, 14568, 345, 578}
941:27	$0, 0, 0, 0, 0, \frac{11}{1345}\sqrt{33e^{12}}, \frac{11}{1345}\sqrt{69e^{13}}, \frac{11}{1345}\sqrt{731e^{14}} + \frac{22}{1345}\sqrt{146e^{35}}, \frac{44}{1345}\sqrt{58e^{16}}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{269}, -\frac{44}{1345}, \frac{253}{1345}, \frac{11}{269}, -\frac{143}{1345}, \frac{33}{1345}, \frac{132}{1345}) + \frac{11}{1345}\sqrt{877e^3} \otimes e_9 + \frac{22}{1345}\sqrt{142e^2} \otimes e_7 + \frac{22}{1345}\sqrt{258e^1} \otimes e_4$	{2469, 3457}
941:27	$0, 0, 0, 0, 0, \frac{4}{557}\sqrt{1505e^{12}}, \frac{20}{557}\sqrt{42e^{13}}, \frac{36}{557}\sqrt{70e^{14}} + \frac{4}{557}\sqrt{1505e^{35}}, \frac{60}{557}\sqrt{7e^{16}}$	$(-\frac{133}{557}, \frac{278}{557}, -\frac{16}{557}, \frac{131}{557}, \frac{14}{557}, \frac{145}{557}, -\frac{149}{557}, -\frac{2}{557}, \frac{12}{557}) + \frac{8}{557}\sqrt{2065e^4} \otimes e_7 + \frac{8}{557}\sqrt{2310e^2} \otimes e_8$	{12345, 156789, 23567, 4589}
941:27	$0, 0, 0, 0, 0, \frac{1}{191}\sqrt{861e^{12}}, \frac{1}{191}\sqrt{455e^{13}}, \frac{1}{191}\sqrt{455e^{14}} + \frac{2}{191}\sqrt{238e^{35}}, \frac{2}{191}\sqrt{238e^{16}}$	$(\frac{3}{191}, \frac{6}{191}, -\frac{20}{191}, -\frac{4}{191}, \frac{19}{191}, \frac{9}{191}, -\frac{17}{191}, -\frac{1}{191}, \frac{12}{191}) + \frac{1}{191}\sqrt{1001e^5} \otimes e_9 + \frac{2}{191}\sqrt{182e^1} \otimes e_4 + \frac{2}{191}\sqrt{182e^2} \otimes e_8$	{129, 24679}
941:27	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{30e^{12}}, \frac{6}{61}\sqrt{6e^{13}}, \frac{6}{61}\sqrt{6e^{14}} + \frac{12}{61}\sqrt{6e^{35}}, \frac{3}{61}\sqrt{138e^{16}}$	$(\frac{8}{61}, -\frac{19}{61}, -\frac{5}{61}, \frac{11}{61}, \frac{24}{61}, \frac{61}{61}, -\frac{11}{61}, \frac{3}{61}, \frac{19}{61}, -\frac{3}{61}) + \frac{9}{61}\sqrt{14e^1} \otimes e_2 + \frac{9}{61}\sqrt{22e^5} \otimes e_9$	{13567, 14568, 23689, 24679}
941:27	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{10e^{12}}, \frac{6}{47}\sqrt{11e^{13}}, \frac{6}{47}\sqrt{10e^{14}} + \frac{6}{47}\sqrt{10e^{35}}, \frac{12}{47}\sqrt{2e^{16}}$	$(-\frac{12}{47}, \frac{19}{47}, \frac{6}{47}, \frac{13}{47}, -\frac{5}{47}, \frac{7}{47}, -\frac{6}{47}, \frac{1}{47}, -\frac{5}{47}) + \frac{12}{47}\sqrt{6e^2} \otimes e_8 + \frac{18}{47}\sqrt{2e^4} \otimes e_9$	{23569, 2679, 348, 4578}
941:27	$0, 0, 0, 0, 0, \frac{41}{5757}\sqrt{118e^{12}}, \frac{410}{5757}\sqrt{17e^{13}}, \frac{205}{5757}\sqrt{94e^{14}} + \frac{41}{5757}\sqrt{262e^{35}}, \frac{82}{5757}\sqrt{422e^{16}}$	$(\frac{123}{1919}, -\frac{1312}{5757}, -\frac{287}{5757}, \frac{369}{1919}, \frac{1763}{5757}, -\frac{943}{5757}, \frac{82}{5757}, \frac{492}{1919}, -\frac{574}{5757}) + \frac{205}{5757}\sqrt{182e^1} \otimes e_2 + \frac{410}{5757}\sqrt{37e^4} \otimes e_9 + \frac{820}{5757}\sqrt{6e^5} \otimes e_7$	{13589, 1789}
941:27	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{165e^{12}}, \frac{1}{23}\sqrt{195e^{13}}, \frac{1}{23}\sqrt{195e^{14}} + \frac{6}{23}\sqrt{10e^{35}}, \frac{6}{23}\sqrt{10e^{16}}$	$(-\frac{1}{23}, -\frac{2}{23}, -\frac{2}{23}, \frac{10}{23}, \frac{11}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{9}{23}, -\frac{4}{23}) + \frac{3}{23}\sqrt{65e^5} \otimes e_9$	{1234789, 129, 13567, 14568, 23689, 24679, 345, 578}
941:27	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{22e^{12}}, \frac{30}{181}\sqrt{11e^{13}}, \frac{30}{181}\sqrt{22e^{14}} + \frac{6}{181}\sqrt{22e^{35}}, \frac{12}{181}\sqrt{143e^{16}}$	$(-\frac{48}{181}, \frac{29}{181}, \frac{54}{181}, \frac{131}{181}, \frac{29}{181}, -\frac{19}{181}, \frac{6}{181}, \frac{83}{181}, -\frac{67}{181}) + \frac{30}{181}\sqrt{66e^4} \otimes e_9$	{123789, 12589, 134567, 146, 23569, 2679, 348, 4578}
941:27	$0, 0, 0, 0, 0, \frac{12}{1417}\sqrt{1343e^{12}}, \frac{15}{1417}\sqrt{2686e^{13}}, \frac{15}{1417}\sqrt{790e^{14}} + \frac{24}{1417}\sqrt{158e^{35}}, \frac{3}{1417}\sqrt{14062e^{16}}$	$(\frac{314}{1417}, -\frac{397}{1417}, -\frac{347}{1417}, \frac{17}{1417}, \frac{678}{1417}, -\frac{83}{1417}, -\frac{33}{1417}, \frac{331}{1417}, \frac{231}{1417}) + \frac{45}{1417}\sqrt{474e^1} \otimes e_2 + \frac{60}{1417}\sqrt{237e^5} \otimes e_7$	{13459, 1479, 23478, 2458}
941:27	$0, 0, 0, 0, 0, \frac{6}{341}\sqrt{38e^{12}}, \frac{10}{341}\sqrt{114e^{13}}, \frac{10}{341}\sqrt{114e^{14}} + \frac{2}{341}\sqrt{5358e^{35}}, \frac{2}{341}\sqrt{5358e^{16}}$	$(-\frac{53}{341}, \frac{4}{31}, -\frac{1}{11}, \frac{166}{341}, \frac{144}{341}, -\frac{9}{341}, -\frac{84}{341}, \frac{113}{341}, -\frac{2}{11}) + \frac{60}{341}\sqrt{19e^4} \otimes e_9 + \frac{60}{341}\sqrt{19e^5} \otimes e_7$	{123456, 12467, 23478, 2458}
941:27	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{38e^{12}}, \frac{24}{187}\sqrt{13e^{13}}, \frac{24}{187}\sqrt{26e^{14}} + \frac{12}{187}\sqrt{142e^{35}}, \frac{12}{187}\sqrt{142e^{16}}$	$(-\frac{3}{17}, \frac{12}{187}, \frac{90}{187}, \frac{83}{187}, -\frac{40}{187}, -\frac{21}{187}, \frac{57}{187}, \frac{50}{187}, -\frac{54}{187}) + \frac{24}{187}\sqrt{78e^3} \otimes e_9$	{1245789, 1279, 13468, 1356, 2469, 25689, 3457, 378}
941:27	$0, 0, 0, 0, 0, \frac{12}{47}\sqrt{2e^{12}}, \frac{6}{47}\sqrt{10e^{13}}, \frac{6}{47}\sqrt{11e^{14}} + \frac{6}{47}\sqrt{10e^{35}}, \frac{6}{47}\sqrt{10e^{16}}$	$(-\frac{12}{47}, \frac{15}{47}, \frac{9}{47}, \frac{16}{47}, -\frac{5}{47}, \frac{3}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{9}{47}) + \frac{12}{47}\sqrt{6e^3} \otimes e_9 + \frac{18}{47}\sqrt{2e^2} \otimes e_7$	{2469, 25689, 3457, 378}
941:27	$0, 0, 0, 0, 0, \frac{4}{27}\sqrt{21e^{12}}, \frac{8}{9}e^{13}, \frac{8}{9}e^{14} + \frac{4}{27}\sqrt{21e^{35}}, \frac{4}{27}\sqrt{21e^{16}}$	$(-\frac{7}{27}, \frac{10}{27}, -\frac{2}{27}, \frac{5}{9}, \frac{10}{27}, \frac{1}{9}, -\frac{1}{3}, \frac{8}{27}, -\frac{4}{27}) + \frac{8}{9}\sqrt{2e^4} \otimes e_7$	{123469, 126789, 134, 178, 2379, 2489, 367, 468}
941:27	$0, 0, 0, 0, 0, \frac{20}{637}\sqrt{282e^{12}}, \frac{160}{637}e^{13}, \frac{40}{637}\sqrt{31e^{14}} + \frac{20}{637}\sqrt{282e^{35}}, \frac{20}{637}\sqrt{34e^{16}}$	$(-\frac{107}{637}, \frac{24}{49}, \frac{12}{49}, \frac{19}{637}, -\frac{244}{637}, \frac{205}{637}, \frac{1}{13}, -\frac{88}{637}, \frac{2}{13}) + \frac{40}{637}\sqrt{186e^2} \otimes e_8 + \frac{80}{637}\sqrt{23e^3} \otimes e_5$	{13678, 1568, 348, 4578}
941:27	$0, 0, 0, 0, 0, \frac{3}{367}\sqrt{1561e^{12}}, \frac{3}{367}\sqrt{1547e^{13}}, \frac{3}{367}\sqrt{455e^{14}} + \frac{6}{367}\sqrt{595e^{35}}, \frac{6}{367}\sqrt{413e^{16}}$	$(-\frac{51}{367}, \frac{80}{367}, -\frac{24}{367}, \frac{68}{367}, \frac{41}{367}, \frac{29}{367}, -\frac{75}{367}, \frac{17}{367}, -\frac{22}{367}) + \frac{6}{367}\sqrt{546e^2} \otimes e_8 + \frac{9}{367}\sqrt{273e^5} \otimes e_9$	{129, 14568, 24679, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:27	$0, 0, 0, 0, 0, \frac{2}{3581}\sqrt{542658}e^{12}, \frac{56}{3581}\sqrt{447}e^{13},$ $\frac{26}{3581}\sqrt{2235}e^{14} + \frac{16}{3581}\sqrt{894}e^{35}, \frac{12}{3581}\sqrt{9089}e^{16}$	$(\frac{250}{3581}, \frac{555}{3581}, -\frac{589}{3581}, -\frac{644}{3581}, \frac{195}{3581}, \frac{805}{3581}, -\frac{339}{3581}, -\frac{394}{3581}, \frac{1055}{3581})$ $+ \frac{12}{3581}\sqrt{22499}e^1 \otimes e_4 + \frac{6}{3581}\sqrt{71818}e^2 \otimes e_7$	{12359, 167, 2469, 3457}
941:27	$0, 0, 0, 0, 0, \frac{22}{1677}\sqrt{690}e^{12}, \frac{22}{559}\sqrt{10}e^{13},$ $\frac{44}{1677}\sqrt{66}e^{14} + \frac{11}{1677}\sqrt{2418}e^{35}, \frac{11}{559}\sqrt{190}e^{16}$	$(\frac{110}{1677}, \frac{220}{1677}, -\frac{308}{1677}, -\frac{253}{1677}, \frac{55}{559}, \frac{110}{559}, -\frac{66}{559}, -\frac{11}{129}, \frac{440}{1677})$ $+ \frac{11}{1677}\sqrt{2478}e^5 \otimes e_7 + \frac{44}{1677}\sqrt{219}e^1 \otimes e_4 + \frac{55}{559}\sqrt{14}e^2 \otimes e_8$	{12359, 1279}
941:27	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{1}{89}\sqrt{615}e^{13}, \frac{1}{89}\sqrt{1763}e^{14} + \frac{2}{89}\sqrt{615}e^{35},$ $\frac{2}{89}\sqrt{615}e^{16}$	$(-\frac{13}{89}, \frac{16}{89}, -\frac{12}{89}, \frac{32}{89}, \frac{31}{89}, \frac{3}{89}, \frac{25}{89}, \frac{19}{89}, -\frac{10}{89})$ $+ \frac{1}{89}\sqrt{4141}e^5 \otimes e_9 + \frac{2}{89}\sqrt{574}e^2 \otimes e_7$	{129, 13567, 23689, 578}
941:27	$0, 0, 0, 0, 0, \frac{1}{573}\sqrt{24662}e^{12}, \frac{10}{573}\sqrt{209}e^{13},$ $\frac{5}{573}\sqrt{2926}e^{14} + \frac{1}{573}\sqrt{24662}e^{35}, \frac{2}{573}\sqrt{12122}e^{16}$	$(\frac{41}{573}, -\frac{56}{191}, \frac{19}{191}, \frac{41}{191}, \frac{107}{573}, -\frac{127}{573}, \frac{98}{573}, \frac{164}{573}, -\frac{86}{573})$ $+ \frac{10}{573}\sqrt{1045}e^4 \otimes e_9 + \frac{55}{573}\sqrt{38}e^1 \otimes e_2$	{13589, 1789, 234578, 248}
941:27	$0, 0, 0, 0, 0, \frac{4}{351}\sqrt{1245}e^{12}, \frac{8}{117}\sqrt{70}e^{13}, \frac{16}{117}\sqrt{10}e^{14} + \frac{4}{351}\sqrt{1245}e^{35},$ $\frac{4}{351}\sqrt{1245}e^{16}$	$(-\frac{83}{351}, \frac{98}{351}, \frac{74}{351}, \frac{37}{117}, -\frac{46}{351}, \frac{5}{117}, -\frac{1}{39}, \frac{28}{351}, -\frac{68}{351})$ $+ \frac{16}{117}\sqrt{15}e^3 \otimes e_5 + \frac{32}{117}\sqrt{5}e^4 \otimes e_7$	{123469, 134, 2379, 367}
941:27	$0, 0, 0, 0, 0, \frac{180}{353}e^{12}, \frac{4}{353}\sqrt{390}e^{13}, \frac{4}{353}\sqrt{390}e^{14} + \frac{4}{353}\sqrt{1245}e^{35},$ $\frac{4}{353}\sqrt{1245}e^{16}$	$(\frac{31}{353}, \frac{62}{353}, -\frac{16}{353}, -\frac{89}{353}, -\frac{42}{353}, \frac{93}{353}, \frac{15}{353}, -\frac{58}{353}, \frac{124}{353})$ $+ \frac{24}{353}\sqrt{65}e^1 \otimes e_4 + \frac{24}{353}\sqrt{65}e^2 \otimes e_8$	{123579, 129, 234569, 24679}
941:27	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{26}e^{13}, \frac{24}{187}\sqrt{13}e^{14} + \frac{12}{187}\sqrt{142}e^{35},$ $\frac{12}{187}\sqrt{38}e^{16}$	$(-\frac{3}{17}, \frac{116}{187}, \frac{12}{187}, \frac{5}{187}, -\frac{40}{187}, \frac{83}{187}, -\frac{21}{187}, -\frac{28}{187}, \frac{50}{187})$ $+ \frac{24}{187}\sqrt{78}e^2 \otimes e_8$	{1234579, 1249, 13678, 1568, 23569, 2679, 348, 4578}
941:27	$0, 0, 0, 0, 0, \frac{24}{1321}\sqrt{591}e^{12}, \frac{8}{1321}\sqrt{1182}e^{13},$ $\frac{8}{1321}\sqrt{591}e^{14} + \frac{1}{1321}\sqrt{533082}e^{35}, \frac{1}{1321}\sqrt{72102}e^{16}$	$(-\frac{166}{1321}, \frac{544}{1321}, -\frac{236}{1321}, \frac{119}{1321}, \frac{189}{1321}, \frac{378}{1321}, -\frac{402}{1321}, -\frac{47}{1321}, \frac{212}{1321})$ $+ \frac{3}{1321}\sqrt{64222}e^5 \otimes e_7 + \frac{3}{1321}\sqrt{89438}e^2 \otimes e_8$	{13678, 1568, 23569, 2679}
941:27	$0, 0, 0, 0, 0, \frac{3}{1387}\sqrt{4510}e^{12}, \frac{6}{1387}\sqrt{8305}e^{13},$ $\frac{3}{1387}\sqrt{4070}e^{14} + \frac{15}{1387}\sqrt{814}e^{35}, \frac{66}{1387}\sqrt{85}e^{16}$	$(\frac{111}{1387}, -\frac{384}{1387}, \frac{333}{1387}, \frac{179}{1387}, -\frac{43}{1387}, -\frac{273}{1387}, \frac{444}{1387}, \frac{290}{1387}, -\frac{162}{1387})$ $+ \frac{27}{1387}\sqrt{770}e^1 \otimes e_2 + \frac{6}{1387}\sqrt{18645}e^3 \otimes e_9$	{145789, 179, 23457, 2378}
941:27	$0, 0, 0, 0, 0, \frac{6}{47}\sqrt{10}e^{12}, \frac{6}{47}\sqrt{10}e^{13}, \frac{6}{47}\sqrt{11}e^{14} + \frac{12}{47}\sqrt{2}e^{35},$ $\frac{6}{47}\sqrt{10}e^{16}$	$(\frac{10}{47}, -\frac{5}{47}, -\frac{13}{47}, -\frac{8}{47}, \frac{15}{47}, \frac{5}{47}, -\frac{3}{47}, \frac{2}{47}, \frac{15}{47})$ $+ \frac{12}{47}\sqrt{6}e^1 \otimes e_4 + \frac{18}{47}\sqrt{2}e^5 \otimes e_7$	{12359, 1279, 1356, 167}
941:27	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{58}e^{12}, \frac{5}{89}\sqrt{174}e^{13}, \frac{5}{89}\sqrt{174}e^{14} + \frac{6}{89}\sqrt{58}e^{35},$ $\frac{1}{89}\sqrt{2262}e^{16}$	$(\frac{38}{89}, -\frac{49}{89}, \frac{1}{89}, -\frac{11}{89}, \frac{26}{89}, -\frac{11}{89}, \frac{39}{89}, \frac{27}{89}, \frac{27}{89})$ $+ \frac{15}{89}\sqrt{58}e^1 \otimes e_2$	{1349, 13589, 14579, 1789, 234578, 237, 248, 25}
941:27	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{5358}e^{12}, \frac{10}{341}\sqrt{114}e^{13}, \frac{10}{341}\sqrt{114}e^{14} + \frac{6}{341}\sqrt{38}e^{35},$ $\frac{2}{341}\sqrt{5358}e^{16}$	$(-\frac{103}{341}, \frac{144}{341}, \frac{19}{341}, \frac{166}{341}, \frac{4}{341}, \frac{41}{341}, -\frac{84}{341}, \frac{63}{341}, -\frac{2}{11})$ $+ \frac{60}{341}\sqrt{19}e^2 \otimes e_7 + \frac{60}{341}\sqrt{19}e^4 \otimes e_9$	{123589, 14567, 2569, 34578}
941:27	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{13}e^{13}, \frac{24}{187}\sqrt{26}e^{14} + \frac{12}{187}\sqrt{38}e^{35},$ $\frac{12}{187}\sqrt{142}e^{16}$	$(\frac{71}{187}, -\frac{40}{187}, -\frac{14}{187}, -\frac{73}{187}, \frac{12}{187}, \frac{31}{187}, \frac{57}{187}, -\frac{2}{187}, \frac{6}{11})$ $+ \frac{24}{187}\sqrt{78}e^1 \otimes e_4$	{12359, 1279, 1356, 167, 2345679, 2469, 3457, 4}
941:27	$0, 0, 0, 0, 0, \frac{1}{272}\sqrt{7590}e^{12}, \frac{1}{272}\sqrt{12045}e^{13},$ $\frac{1}{272}\sqrt{12045}e^{14} + \frac{1}{272}\sqrt{7590}e^{35}, \frac{1}{136}\sqrt{770}e^{16}$	$(\frac{13}{272}, -\frac{21}{136}, -\frac{57}{544}, \frac{79}{544}, \frac{81}{272}, -\frac{29}{272}, -\frac{31}{544}, \frac{105}{544}, -\frac{1}{17})$ $+ \frac{1}{272}\sqrt{13530}e^1 \otimes e_2 + \frac{1}{272}\sqrt{15070}e^4 \otimes e_7$	{134, 178, 2379, 2489}
941:27	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{22}e^{12}, \frac{30}{181}\sqrt{22}e^{13}, \frac{30}{181}\sqrt{11}e^{14} + \frac{12}{181}\sqrt{143}e^{35},$ $\frac{6}{181}\sqrt{22}e^{16}$	$(\frac{2}{181}, \frac{29}{181}, -\frac{71}{181}, \frac{56}{181}, \frac{129}{181}, \frac{31}{181}, -\frac{69}{181}, \frac{58}{181}, \frac{33}{181})$ $+ \frac{30}{181}\sqrt{66}e^5 \otimes e_7$	{12359, 1279, 1356, 167, 236789, 25689, 378, 58}
941:27	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{51}e^{12}, \frac{5}{29}\sqrt{3}e^{13}, \frac{5}{29}\sqrt{3}e^{14} + \frac{6}{29}\sqrt{2}e^{35},$ $\frac{2}{29}\sqrt{14}e^{16}$	$(\frac{1}{29}, 0, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{2}{29}, 0, \frac{2}{29})$ $+ \frac{2}{29}\sqrt{19}e^4 \otimes e_7 + \frac{3}{29}\sqrt{7}e^5 \otimes e_9 + \frac{4}{29}\sqrt{3}e^1 \otimes e_2$	{134, 178}
941:27	$0, 0, 0, 0, 0, \frac{16}{3581}\sqrt{894}e^{12}, \frac{56}{3581}\sqrt{447}e^{13},$ $\frac{26}{3581}\sqrt{2235}e^{14} + \frac{2}{3581}\sqrt{542658}e^{35}, \frac{12}{3581}\sqrt{9089}e^{16}$	$(-\frac{476}{3581}, \frac{195}{3581}, \frac{137}{3581}, \frac{1168}{3581}, \frac{555}{3581}, -\frac{281}{3581}, -\frac{339}{3581}, \frac{692}{3581}, -\frac{757}{3581})$ $+ \frac{12}{3581}\sqrt{22499}e^3 \otimes e_9 + \frac{6}{3581}\sqrt{71818}e^5 \otimes e_7$	{1279, 1356, 25689, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:28	$0, 0, 0, 0, 0, \frac{7}{51}\sqrt{2}e^{12}, \frac{1}{51}\sqrt{210}e^{13}, \frac{4}{51}\sqrt{7}e^{14} + \frac{7}{51}\sqrt{2}e^{35},$ $\frac{1}{51}\sqrt{238}e^{26}$	$(-\frac{3}{17}, \frac{4}{51}, \frac{2}{17}, \frac{13}{51}, -\frac{2}{51}, -\frac{5}{51}, -\frac{1}{17}, \frac{4}{51}, -\frac{1}{51})$ $+ \frac{1}{51}\sqrt{322}e^2 \otimes e_7 + \frac{1}{51}\sqrt{322}e^3 \otimes e_9$	{1456789, 1679, 3457, 378}
941:28	$0, 0, 0, 0, 0, \frac{10}{1157}\sqrt{177}e^{12}, \frac{5}{1157}\sqrt{606}e^{13},$ $\frac{30}{1157}\sqrt{2}e^{14} + \frac{5}{1157}\sqrt{1030}e^{35}, \frac{10}{1157}\sqrt{213}e^{26}$	$(\frac{30}{1157}, \frac{15}{1157}, -\frac{95}{1157}, -\frac{40}{1157}, \frac{85}{1157}, \frac{45}{1157}, -\frac{5}{89}, -\frac{10}{1157}, \frac{60}{1157})$ $+ \frac{10}{1157}\sqrt{339}e^2 \otimes e_8 + \frac{55}{1157}\sqrt{2}e^4 \otimes e_7 + \frac{5}{1157}\sqrt{966}e^5 \otimes e_9$	{2356, 4578}
941:28	$0, 0, 0, 0, 0, \frac{2}{243}\sqrt{515}e^{12}, \frac{1}{81}\sqrt{190}e^{13}, \frac{2}{243}\sqrt{705}e^{14} + \frac{2}{243}\sqrt{595}e^{35},$ $\frac{1}{243}\sqrt{3730}e^{26}$	$(-\frac{40}{243}, \frac{10}{81}, \frac{10}{243}, \frac{5}{27}, -\frac{5}{243}, -\frac{10}{243}, -\frac{10}{81}, \frac{5}{243}, \frac{20}{243})$ $+ \frac{10}{243}\sqrt{39}e^4 \otimes e_9 + \frac{2}{81}\sqrt{170}e^2 \otimes e_8 + \frac{8}{243}\sqrt{15}e^5 \otimes e_7$	{136789, 15689}
941:28	$0, 0, 0, 0, 0, \frac{102}{5357}\sqrt{34}e^{12}, \frac{1360}{5357}e^{13}, \frac{34}{5357}\sqrt{881}e^{14} + \frac{68}{5357}\sqrt{283}e^{35},$ $\frac{68}{5357}\sqrt{205}e^{26}$	$(\frac{612}{5357}, -\frac{731}{5357}, -\frac{272}{5357}, \frac{34}{5357}, \frac{918}{5357}, -\frac{119}{5357}, \frac{340}{5357}, \frac{646}{5357}, -\frac{850}{5357})$ $+ \frac{102}{5357}\sqrt{138}e^1 \otimes e_4 + \frac{34}{5357}\sqrt{1655}e^5 \otimes e_7 + \frac{34}{5357}\sqrt{2065}e^3 \otimes e_9$	{1279, 1679}
941:28	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{295}e^{12}, \frac{1}{58}\sqrt{2301}e^{13}, \frac{1}{58}\sqrt{2301}e^{14} + \frac{1}{29}\sqrt{295}e^{35},$ $\frac{1}{58}\sqrt{354}e^{26}$	$(-\frac{10}{29}, \frac{8}{29}, -\frac{1}{116}, \frac{77}{116}, \frac{19}{58}, -\frac{2}{29}, -\frac{41}{116}, \frac{37}{116}, \frac{6}{29})$ $+ \frac{7}{58}\sqrt{118}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:28	$0, 0, 0, 0, 0, \frac{3}{443}\sqrt{2806}e^{12}, \frac{6}{443}\sqrt{1495}e^{13}, \frac{69}{443}\sqrt{6}e^{14} + \frac{3}{443}\sqrt{2806}e^{35},$ $\frac{3}{443}\sqrt{690}e^{26}$	$(\frac{122}{443}, -\frac{31}{443}, -\frac{146}{443}, -\frac{85}{443}, \frac{183}{443}, \frac{91}{443}, -\frac{24}{443}, \frac{37}{443}, \frac{60}{443})$ $+ \frac{3}{443}\sqrt{9154}e^1 \otimes e_4 + \frac{3}{443}\sqrt{9154}e^5 \otimes e_7$	{12359, 1279, 13569, 1679}
941:28	$0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{6834}e^{12}, \frac{2}{1497}\sqrt{239190}e^{13},$ $\frac{67}{1497}\sqrt{102}e^{14} + \frac{2}{1497}\sqrt{242607}e^{35}, \frac{1}{1497}\sqrt{1136722}e^{26}$	$(\frac{8}{499}, -\frac{256}{1497}, \frac{217}{499}, \frac{152}{499}, -\frac{57}{499}, -\frac{232}{1497}, \frac{225}{499}, \frac{160}{499}, -\frac{488}{1497})$ $+ \frac{2}{499}\sqrt{78591}e^3 \otimes e_9$	{1245789, 1279, 1456789, 1679, 234567, 23678, 3457, 378}
941:28	$0, 0, 0, 0, 0, \frac{12}{4091}\sqrt{9821}e^{12}, \frac{4}{4091}\sqrt{218685}e^{13},$ $\frac{8}{4091}\sqrt{28731}e^{14} + \frac{12}{4091}\sqrt{13237}e^{35}, \frac{24}{4091}\sqrt{4270}e^{26}$	$(\frac{966}{4091}, -\frac{878}{4091}, \frac{674}{4091}, -\frac{498}{4091}, -\frac{206}{4091}, \frac{88}{4091}, \frac{1640}{4091}, \frac{468}{4091}, -\frac{790}{4091})$ $+ \frac{20}{4091}\sqrt{15189}e^3 \otimes e_9 + \frac{4}{4091}\sqrt{287493}e^1 \otimes e_4$	{1279, 1679, 234567, 3457}
941:28	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{6}e^{14} + \frac{2}{7}\sqrt{3}e^{35},$ $\frac{2}{7}\sqrt{3}e^{26}$	$(-\frac{1}{7}, \frac{2}{7}, \frac{1}{7}, 0, -\frac{2}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{3}{7})$ $+ \frac{1}{7}\sqrt{30}e^2 \otimes e_8 + \frac{1}{7}\sqrt{6}e^3 \otimes e_5$	{136789, 15689, 348, 4578}
941:28	$0, 0, 0, 0, 0, \frac{14}{251}\sqrt{31}e^{12}, \frac{7}{251}\sqrt{10}e^{13}, \frac{14}{251}e^{14} + \frac{14}{251}\sqrt{31}e^{35},$ $\frac{7}{251}\sqrt{10}e^{26}$	$(\frac{14}{251}, \frac{28}{251}, -\frac{42}{251}, -\frac{35}{251}, \frac{21}{251}, \frac{42}{251}, -\frac{28}{251}, -\frac{21}{251}, \frac{70}{251})$ $+ \frac{14}{251}\sqrt{29}e^1 \otimes e_4 + \frac{14}{251}\sqrt{29}e^5 \otimes e_7 + \frac{14}{251}\sqrt{55}e^2 \otimes e_8$	{3478, 458}
941:28	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2330}e^{12}, \frac{1}{169}\sqrt{57318}e^{13},$ $\frac{2}{169}\sqrt{1165}e^{14} + \frac{2}{169}\sqrt{2330}e^{35}, \frac{1}{39}\sqrt{466}e^{26}$	$(-\frac{22}{169}, \frac{158}{507}, \frac{8}{169}, -\frac{3}{169}, -\frac{33}{169}, \frac{92}{507}, -\frac{14}{169}, -\frac{25}{169}, \frac{250}{507})$ $+ \frac{2}{507}\sqrt{49629}e^2 \otimes e_8$	{1234579, 1249, 136789, 15689, 2356, 267, 348, 4578}
941:28	$0, 0, 0, 0, 0, \frac{1}{1723}\sqrt{221010}e^{12}, \frac{2}{1723}\sqrt{189735}e^{13},$ $\frac{3}{1723}\sqrt{18070}e^{14} + \frac{1}{1723}\sqrt{176530}e^{35}, \frac{2}{1723}\sqrt{120930}e^{26}$	$(-\frac{318}{1723}, -\frac{3}{1723}, \frac{371}{1723}, \frac{748}{1723}, \frac{59}{1723}, -\frac{321}{1723}, \frac{53}{1723}, \frac{430}{1723}, -\frac{324}{1723})$ $+ \frac{1}{1723}\sqrt{943810}e^4 \otimes e_7 + \frac{2}{1723}\sqrt{298155}e^3 \otimes e_9$	{123456, 1345, 24589, 45689}
941:28	$0, 0, 0, 0, 0, \frac{12}{4913}\sqrt{1106}e^{12}, \frac{10}{4913}\sqrt{32074}e^{13},$ $\frac{2}{4913}\sqrt{430787}e^{14} + \frac{14}{4913}\sqrt{15958}e^{35}, \frac{8}{4913}\sqrt{33733}e^{26}$	$(-\frac{144}{4913}, -\frac{449}{4913}, \frac{64}{4913}, \frac{1234}{4913}, \frac{1026}{4913}, -\frac{593}{4913}, -\frac{80}{4913}, \frac{1090}{4913}, -\frac{1042}{4913})$ $+ \frac{2}{4913}\sqrt{1097705}e^5 \otimes e_7 + \frac{2}{4913}\sqrt{1367569}e^3 \otimes e_9$	{12356, 135, 2589, 5689}
941:28	$0, 0, 0, 0, 0, \frac{2}{1449}\sqrt{10997}e^{12}, \frac{1}{1449}\sqrt{15710}e^{13},$ $\frac{8}{1449}\sqrt{9426}e^{14} + \frac{2}{1449}\sqrt{323626}e^{35}, \frac{1}{1449}\sqrt{267070}e^{26}$	$(\frac{4}{207}, \frac{52}{483}, -\frac{562}{1449}, \frac{149}{483}, \frac{1037}{1449}, \frac{8}{63}, -\frac{178}{483}, \frac{475}{1449}, \frac{340}{1449})$ $+ \frac{2}{1449}\sqrt{937887}e^5 \otimes e_7$	{12359, 1279, 13569, 1679, 23678, 2568, 378, 58}
941:28	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22686}e^{12}, \frac{1}{1173}\sqrt{17898}e^{13},$ $\frac{1}{391}\sqrt{646}e^{14} + \frac{4}{1173}\sqrt{2109}e^{35}, \frac{2}{1173}\sqrt{7429}e^{26}$	$(-\frac{9}{391}, \frac{47}{1173}, -\frac{32}{391}, \frac{12}{391}, \frac{35}{391}, \frac{20}{1173}, -\frac{41}{391}, \frac{3}{391}, \frac{67}{1173})$ $+ \frac{1}{391}\sqrt{3686}e^5 \otimes e_9 + \frac{8}{1173}\sqrt{741}e^2 \otimes e_8$	{1249, 136789, 2356, 4578}
941:28	$0, 0, 0, 0, 0, \frac{4}{397}\sqrt{1430}e^{12}, \frac{11}{397}\sqrt{78}e^{13}, \frac{6}{397}\sqrt{715}e^{14} + \frac{4}{397}\sqrt{1430}e^{35},$ $\frac{33}{397}\sqrt{26}e^{26}$	$(-\frac{86}{397}, \frac{118}{397}, \frac{4}{397}, \frac{61}{397}, -\frac{29}{397}, \frac{32}{397}, -\frac{82}{397}, -\frac{25}{397}, \frac{150}{397})$ $+ \frac{10}{397}\sqrt{286}e^4 \otimes e_7 + \frac{2}{397}\sqrt{17589}e^2 \otimes e_8$	{1249, 136789, 267, 348}
941:28	$0, 0, 0, 0, 0, \frac{1}{93}\sqrt{1806}e^{12}, \frac{1}{93}\sqrt{1290}e^{13}, \frac{1}{93}\sqrt{1290}e^{14} + \frac{4}{31}\sqrt{43}e^{35},$ $\frac{2}{93}\sqrt{1333}e^{26}$	$(\frac{7}{31}, -\frac{25}{93}, -\frac{4}{31}, \frac{8}{31}, \frac{19}{31}, -\frac{4}{93}, \frac{3}{31}, \frac{15}{31}, -\frac{29}{93})$ $+ \frac{1}{31}\sqrt{1462}e^5 \otimes e_9$	{1234789, 129, 1346789, 169, 23456, 25678, 345, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:28	$0, 0, 0, 0, 0, \frac{7}{295}\sqrt{178}e^{12}, \frac{2}{295}\sqrt{3827}e^{13}, \frac{1}{295}\sqrt{22606}e^{14} + \frac{7}{295}\sqrt{178}e^{35},$ $\frac{1}{295}\sqrt{21894}e^{26}$	$(-\frac{49}{295}, -\frac{4}{295}, \frac{25}{59}, \frac{121}{295}, -\frac{53}{295}, -\frac{53}{295}, \frac{76}{295}, \frac{72}{295}, -\frac{57}{295})$ $+\frac{1}{295}\sqrt{39338}e^3 \otimes e_5 - \frac{1}{295}\sqrt{53934}e^4 \otimes e_9$	{12346, 124567, 134, 1457, 2379, 259, 3679, 569}
941:28	$0, 0, 0, 0, 0, \frac{7}{295}\sqrt{178}e^{12}, \frac{2}{295}\sqrt{3827}e^{13}, \frac{1}{295}\sqrt{22606}e^{14} + \frac{7}{295}\sqrt{178}e^{35},$ $\frac{1}{295}\sqrt{21894}e^{26}$	$(-\frac{49}{295}, -\frac{4}{295}, \frac{25}{59}, \frac{121}{295}, -\frac{53}{295}, -\frac{53}{295}, \frac{76}{295}, \frac{72}{295}, -\frac{57}{295})$ $+\frac{1}{295}\sqrt{39338}e^3 \otimes e_5 + \frac{1}{295}\sqrt{53934}e^4 \otimes e_9$	{12346, 124567, 134, 1457, 2379, 259, 3679, 569}
941:28	$0, 0, 0, 0, 0, \frac{14}{1781}\sqrt{229}e^{12}, \frac{7}{1781}\sqrt{610}e^{13},$ $\frac{14}{1781}\sqrt{46}e^{14} + \frac{7}{1781}\sqrt{1262}e^{35}, \frac{28}{1781}\sqrt{70}e^{26}$	$(\frac{21}{1781}, \frac{42}{1781}, -\frac{161}{1781}, -\frac{28}{1781}, \frac{154}{1781}, \frac{63}{1781}, -\frac{140}{1781}, -\frac{7}{1781}, \frac{105}{1781})$ $+\frac{14}{1781}\sqrt{310}e^5 \otimes e_9 + \frac{7}{1781}\sqrt{1790}e^2 \otimes e_8 + \frac{7}{1781}\sqrt{202}e^1 \otimes e_4$	{136789, 4578}
941:28	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{62}e^{12}, \frac{1}{67}\sqrt{310}e^{13}, \frac{1}{201}\sqrt{3162}e^{14} + \frac{4}{67}\sqrt{31}e^{35},$ $\frac{2}{201}\sqrt{2077}e^{26}$	$(-\frac{5}{67}, \frac{11}{201}, -\frac{12}{67}, \frac{16}{67}, \frac{23}{67}, -\frac{4}{201}, -\frac{17}{67}, \frac{11}{67}, \frac{7}{201})$ $+\frac{1}{201}\sqrt{10230}e^5 \otimes e_9 + \frac{8}{201}\sqrt{186}e^2 \otimes e_7$	{123489, 1679, 2568, 3457}
941:28	$0, 0, 0, 0, 0, \frac{2}{1539}\sqrt{105906}e^{14} + \frac{4}{1539}\sqrt{15793}e^{35}, \frac{1}{1539}\sqrt{570406}e^{26}$ $\frac{2}{1539}\sqrt{105906}e^{14} + \frac{4}{1539}\sqrt{15793}e^{35}, \frac{1}{1539}\sqrt{570406}e^{26}$	$(-\frac{140}{1539}, -\frac{16}{513}, -\frac{118}{1539}, \frac{77}{171}, \frac{671}{1539}, -\frac{188}{1539}, -\frac{86}{513}, \frac{553}{1539}, -\frac{236}{1539})$ $+\frac{2}{1539}\sqrt{287061}e^5 \otimes e_7 + \frac{2}{1539}\sqrt{340014}e^4 \otimes e_9$	{123456, 12467, 1345, 147}
941:28	$0, 0, 0, 0, 0, \frac{3}{1465}\sqrt{1970}e^{12}, \frac{3}{1465}\sqrt{1030}e^{13},$ $\frac{18}{1465}\sqrt{10}e^{14} + \frac{6}{1465}\sqrt{1165}e^{35}, \frac{6}{1465}\sqrt{965}e^{26}$	$(-\frac{27}{293}, \frac{15}{293}, \frac{12}{293}, \frac{33}{293}, -\frac{6}{293}, -\frac{12}{293}, \frac{15}{293}, \frac{6}{293}, \frac{3}{293})$ $+\frac{30}{293}\sqrt{2}e^3 \otimes e_9 + \frac{3}{1465}\sqrt{3070}e^5 \otimes e_7 + \frac{69}{1465}\sqrt{10}e^2 \otimes e_8$	{1279, 378}
941:28	$0, 0, 0, 0, 0, \frac{17}{2197}\sqrt{1057}e^{12}, \frac{17}{2197}\sqrt{865}e^{13},$ $\frac{17}{2197}\sqrt{647}e^{14} + \frac{136}{2197}\sqrt{6}e^{35}, \frac{34}{2197}\sqrt{262}e^{26}$	$(\frac{170}{2197}, \frac{17}{2197}, -\frac{34}{169}, -\frac{119}{2197}, \frac{493}{2197}, \frac{187}{2197}, -\frac{272}{2197}, \frac{51}{2197}, \frac{204}{2197})$ $+\frac{17}{2197}\sqrt{1005}e^5 \otimes e_9 + \frac{17}{2197}\sqrt{1774}e^2 \otimes e_7 + \frac{425}{2197}\sqrt{2}e^1 \otimes e_4$	{1679, 3457}
941:28	$0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{18011}e^{12}, \frac{14}{1219}\sqrt{465}e^{13},$ $\frac{8}{1219}\sqrt{217}e^{14} + \frac{2}{1219}\sqrt{29078}e^{35}, \frac{3657}{3657}\sqrt{264523}e^{26}$	$(-\frac{127}{1219}, \frac{314}{3657}, \frac{227}{1219}, \frac{87}{1219}, -\frac{267}{1219}, -\frac{67}{1219}, \frac{100}{1219}, -\frac{40}{1219}, \frac{247}{3657})$ $+\frac{50}{3657}\sqrt{651}e^2 \otimes e_8 + \frac{6}{1219}\sqrt{3689}e^3 \otimes e_9$	{1249, 15689, 2356, 348}
941:28	$0, 0, 0, 0, 0, \frac{2}{1449}\sqrt{323626}e^{12}, \frac{1}{161}\sqrt{15710}e^{13},$ $\frac{8}{1449}\sqrt{9426}e^{14} + \frac{2}{1449}\sqrt{10997}e^{35}, \frac{1}{1449}\sqrt{267070}e^{26}$	$(\frac{824}{1449}, -\frac{242}{1449}, -\frac{164}{1449}, -\frac{83}{1449}, \frac{241}{1449}, \frac{194}{483}, \frac{220}{483}, \frac{11}{207}, \frac{340}{1449})$ $+\frac{2}{1449}\sqrt{937887}e^1 \otimes e_4$	{12359, 1279, 13569, 1679, 234567, 246, 3457, 4}
941:28	$0, 0, 0, 0, 0, \frac{14}{4913}\sqrt{15958}e^{12}, \frac{10}{4913}\sqrt{32074}e^{13},$ $\frac{2}{4913}\sqrt{430787}e^{14} + \frac{12}{4913}\sqrt{1106}e^{35}, \frac{2}{4913}\sqrt{33733}e^{26}$	$(\frac{355}{4913}, \frac{538}{4913}, -\frac{923}{4913}, -\frac{751}{4913}, \frac{31}{289}, \frac{893}{4913}, -\frac{568}{4913}, -\frac{396}{4913}, \frac{1431}{4913})$ $+\frac{2}{4913}\sqrt{1097705}e^1 \otimes e_4 + \frac{2}{4913}\sqrt{1367569}e^2 \otimes e_7$	{1239, 15679, 2456, 347}
941:28	$0, 0, 0, 0, 0, \frac{1}{753}\sqrt{81158}e^{12}, \frac{1}{753}\sqrt{195734}e^{13},$ $\frac{2}{753}\sqrt{22165}e^{14} + \frac{1}{753}\sqrt{81158}e^{35}, \frac{2}{753}\sqrt{3410}e^{26}$	$(-\frac{238}{753}, \frac{53}{251}, \frac{206}{753}, \frac{103}{251}, -\frac{45}{251}, -\frac{79}{753}, -\frac{32}{753}, \frac{71}{753}, \frac{80}{753})$ $+\frac{1}{753}\sqrt{258478}e^4 \otimes e_7 + \frac{2}{753}\sqrt{53537}e^3 \otimes e_5$	{12346, 134, 2379, 3679}
941:28	$0, 0, 0, 0, 0, \frac{2}{467}\sqrt{8302}e^{12}, \frac{1}{467}\sqrt{212294}e^{13},$ $\frac{2}{467}\sqrt{4151}e^{14} + \frac{2}{467}\sqrt{8302}e^{35}, \frac{3}{467}\sqrt{3558}e^{26}$	$(-\frac{56}{467}, \frac{82}{467}, \frac{316}{467}, \frac{95}{467}, -\frac{277}{467}, \frac{26}{467}, \frac{260}{467}, \frac{39}{467}, \frac{108}{467})$ $+\frac{2}{467}\sqrt{114449}e^3 \otimes e_5$	{1236, 12567, 13, 157, 23479, 2459, 34679, 4569}
941:28	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{309}e^{12}, \frac{1}{170}\sqrt{4017}e^{13}, \frac{1}{170}\sqrt{4017}e^{14} + \frac{1}{85}\sqrt{1030}e^{35},$ $\frac{1}{170}\sqrt{6798}e^{26}$	$(-\frac{6}{85}, -\frac{3}{85}, -\frac{37}{340}, \frac{29}{68}, \frac{79}{170}, -\frac{9}{85}, -\frac{61}{340}, \frac{121}{340}, -\frac{12}{85})$ $+\frac{1}{170}\sqrt{14626}e^4 \otimes e_7 + \frac{1}{85}\sqrt{4017}e^5 \otimes e_9$	{123456, 125678, 1345, 1578}
941:28	$0, 0, 0, 0, 0, \frac{1}{315}\sqrt{14630}e^{12}, \frac{1}{105}\sqrt{570}e^{13}, \frac{4}{315}\sqrt{285}e^{14} + \frac{2}{315}\sqrt{5035}e^{35},$ $\frac{38}{315}\sqrt{10}e^{26}$	$(-\frac{1}{9}, \frac{5}{21}, -\frac{8}{63}, \frac{1}{21}, \frac{4}{63}, \frac{8}{63}, -\frac{5}{21}, -\frac{4}{63}, \frac{23}{63})$ $+\frac{1}{105}\sqrt{3990}e^2 \otimes e_8 + \frac{1}{315}\sqrt{16530}e^5 \otimes e_7$	{136789, 15689, 2356, 267}
941:28	$0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{242607}e^{12}, \frac{2}{1497}\sqrt{239190}e^{13},$ $\frac{67}{1497}\sqrt{102}e^{14} + \frac{2}{1497}\sqrt{6834}e^{35}, \frac{1}{1497}\sqrt{1136722}e^{26}$	$(-\frac{130}{499}, \frac{572}{1497}, -\frac{59}{499}, \frac{152}{499}, \frac{81}{1497}, \frac{182}{499}, -\frac{189}{499}, \frac{22}{499}, \frac{754}{1497})$ $+\frac{2}{499}\sqrt{78591}e^2 \otimes e_7$	{123489, 12359, 1456789, 1679, 246, 2568, 3457, 378}
941:28	$0, 0, 0, 0, 0, \frac{2}{3561}\sqrt{31255}e^{12}, \frac{2}{3561}\sqrt{331170}e^{13},$ $\frac{14}{3561}\sqrt{4845}e^{14} + \frac{10}{3561}\sqrt{3990}e^{35}, \frac{2}{3561}\sqrt{789355}e^{26}$	$(-\frac{291}{1187}, \frac{514}{3561}, \frac{19}{1187}, \frac{495}{1187}, \frac{185}{1187}, -\frac{359}{3561}, -\frac{272}{1187}, \frac{204}{1187}, \frac{155}{3561})$ $+\frac{2}{1187}\sqrt{127015}e^2 \otimes e_7 + \frac{2}{3561}\sqrt{955605}e^4 \otimes e_9$	{123589, 16789, 2468, 34578}
941:28	$0, 0, 0, 0, 0, \frac{2}{483}\sqrt{6855}e^{12}, \frac{1}{483}\sqrt{13710}e^{13},$ $\frac{2}{483}\sqrt{42501}e^{14} + \frac{2}{483}\sqrt{6855}e^{35}, \frac{1}{483}\sqrt{147154}e^{26}$	$(-\frac{20}{161}, -\frac{50}{483}, \frac{6}{23}, \frac{99}{161}, \frac{37}{161}, -\frac{110}{483}, \frac{22}{161}, \frac{79}{161}, -\frac{160}{483})$ $+\frac{2}{483}\sqrt{91857}e^4 \otimes e_9$	{123467, 12456, 1347, 145, 239, 2579, 369, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:28	$0, 0, 0, 0, 0, \frac{4}{145} \sqrt{146}e^{12}, \frac{1}{145} \sqrt{7373}e^{13}, \frac{1}{290} \sqrt{8906}e^{14} + \frac{1}{290} \sqrt{4234}e^{35},$ $\frac{3}{145} \sqrt{73}e^{26}$	$(\frac{32}{145}, -\frac{7}{145}, \frac{32}{145}, -\frac{41}{145}, -\frac{41}{145}, \frac{5}{29}, \frac{64}{145}, -\frac{9}{145}, \frac{18}{145})$ $-\frac{1}{290} \sqrt{36062}e^3 \otimes e_5 + \frac{3}{290} \sqrt{4526}e^1 \otimes e_4$	{1239, 12579, 1369, 15679, 23467, 2456, 347, 45}
941:28	$0, 0, 0, 0, 0, \frac{4}{145} \sqrt{146}e^{12}, \frac{1}{145} \sqrt{7373}e^{13}, \frac{1}{290} \sqrt{8906}e^{14} + \frac{1}{290} \sqrt{4234}e^{35},$ $\frac{3}{145} \sqrt{73}e^{26}$	$(\frac{32}{145}, -\frac{7}{145}, \frac{32}{145}, -\frac{41}{145}, -\frac{41}{145}, \frac{5}{29}, \frac{64}{145}, -\frac{9}{145}, \frac{18}{145})$ $+\frac{1}{290} \sqrt{36062}e^3 \otimes e_5 + \frac{3}{290} \sqrt{4526}e^1 \otimes e_4$	{1239, 12579, 1369, 15679, 23467, 2456, 347, 45}
941:28	$0, 0, 0, 0, 0, \frac{2}{315} \sqrt{5035}e^{12}, \frac{1}{105} \sqrt{570}e^{13}, \frac{4}{315} \sqrt{285}e^{14} + \frac{1}{315} \sqrt{14630}e^{35},$ $\frac{38}{315} \sqrt{10}e^{26}$	$(\frac{23}{315}, \frac{46}{315}, -\frac{11}{315}, -\frac{8}{35}, -\frac{38}{315}, \frac{23}{105}, \frac{4}{105}, -\frac{7}{45}, \frac{23}{63})$ $+\frac{1}{105} \sqrt{3990}e^2 \otimes e_8 + \frac{1}{315} \sqrt{16530}e^1 \otimes e_4$	{136789, 15689, 348, 4578}
941:28	$0, 0, 0, 0, 0, \frac{1}{881} \sqrt{156894}e^{12}, \frac{1}{881} \sqrt{68730}e^{13},$ $\frac{1}{881} \sqrt{100014}e^{14} + \frac{6}{881} \sqrt{4898}e^{35}, \frac{10}{881} \sqrt{1659}e^{26}$	$(\frac{331}{881}, -\frac{233}{881}, -\frac{151}{881}, -\frac{143}{881}, \frac{339}{881}, \frac{98}{881}, \frac{180}{881}, \frac{188}{881}, -\frac{135}{881})$ $+\frac{1}{881} \sqrt{395790}e^5 \otimes e_9 + \frac{4}{881} \sqrt{21093}e^1 \otimes e_4$	{1279, 1679, 234567, 3457}
941:28	$0, 0, 0, 0, 0, \frac{14}{229} \sqrt{11}e^{12}, \frac{1}{687} \sqrt{18942}e^{13}, \frac{2}{687} \sqrt{7161}e^{14} + \frac{14}{229} \sqrt{11}e^{35},$ $\frac{1}{687} \sqrt{35266}e^{26}$	$(-\frac{40}{229}, \frac{86}{687}, \frac{22}{229}, \frac{43}{229}, -\frac{19}{229}, -\frac{34}{687}, -\frac{18}{229}, \frac{3}{229}, \frac{52}{687})$ $+\frac{2}{687} \sqrt{14322}e^2 \otimes e_8 + \frac{2}{687} \sqrt{9471}e^4 \otimes e_9$	{136789, 15689, 348, 4578}
941:28	$0, 0, 0, 0, 0, \frac{2}{4313} \sqrt{489110}e^{12}, \frac{4}{4313} \sqrt{302585}e^{13},$ $\frac{4}{4313} \sqrt{98651}e^{14} + \frac{2}{4313} \sqrt{150049}e^{35}, \frac{6}{4313} \sqrt{84558}e^{26}$	$(-\frac{1133}{4313}, \frac{1246}{4313}, \frac{721}{4313}, \frac{917}{4313}, -\frac{937}{4313}, \frac{113}{4313}, -\frac{412}{4313}, -\frac{216}{4313}, \frac{1359}{4313})$ $+\frac{2}{4313} \sqrt{1292411}e^3 \otimes e_5 + \frac{6}{4313} \sqrt{213053}e^2 \otimes e_7$	{1239, 15679, 2456, 347}
941:29	$0, 0, 0, 0, 0, \frac{6}{8357} \sqrt{521}e^{12}, \frac{3}{8357} \sqrt{2510}e^{13},$ $\frac{3}{8357} \sqrt{842}e^{23} + \frac{6}{8357} \sqrt{1463}e^{45}, \frac{3}{8357} \sqrt{3338}e^{16}$	$(-\frac{6}{8357}, \frac{99}{8357}, -\frac{114}{8357}, -\frac{111}{8357}, \frac{96}{8357}, \frac{93}{8357}, -\frac{120}{8357}, -\frac{15}{8357}, \frac{87}{8357})$ $+\frac{108}{8357} \sqrt{5}e^1 \otimes e_8 + \frac{3}{8357} \sqrt{4190}e^4 \otimes e_7 + \frac{6}{8357} \sqrt{1151}e^5 \otimes e_9$	{1279, 13456}
941:29	$0, 0, 0, 0, 0, \frac{1}{277} \sqrt{31570}e^{12}, \frac{28}{277} \sqrt{41}e^{13}, \frac{28}{277} \sqrt{41}e^{23} + \frac{2}{277} \sqrt{287}e^{45},$ $\frac{2}{277} \sqrt{287}e^{16}$	$(-\frac{59}{277}, \frac{166}{277}, -\frac{62}{277}, \frac{52}{277}, \frac{52}{277}, \frac{107}{277}, -\frac{121}{277}, \frac{104}{277}, \frac{48}{277})$ $+\frac{1}{277} \sqrt{130298}e^2 \otimes e_7$	{1234, 14679, 24568, 268, 345789, 3789}
941:29	$0, 0, 0, 0, 0, \frac{17}{2201} \sqrt{353}e^{12}, \frac{34}{2201} \sqrt{141}e^{13},$ $\frac{17}{2201} \sqrt{885}e^{23} + \frac{17}{2201} \sqrt{541}e^{45}, \frac{221}{2201} \sqrt{7}e^{16}$	$(\frac{204}{2201}, -\frac{391}{2201}, \frac{306}{2201}, -\frac{187}{2201}, \frac{102}{2201}, -\frac{187}{2201}, \frac{510}{2201}, -\frac{85}{2201}, \frac{17}{2201})$ $+\frac{102}{2201} \sqrt{57}e^1 \otimes e_8 + \frac{17}{2201} \sqrt{1605}e^3 \otimes e_9 + \frac{289}{2201} e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{17}{2201} \sqrt{353}e^{12}, \frac{34}{2201} \sqrt{141}e^{13},$ $\frac{17}{2201} \sqrt{885}e^{23} + \frac{17}{2201} \sqrt{541}e^{45}, \frac{221}{2201} \sqrt{7}e^{16}$	$(\frac{204}{2201}, -\frac{391}{2201}, \frac{306}{2201}, -\frac{187}{2201}, \frac{102}{2201}, -\frac{187}{2201}, \frac{510}{2201}, -\frac{85}{2201}, \frac{17}{2201})$ $+\frac{102}{2201} \sqrt{57}e^1 \otimes e_8 + \frac{17}{2201} \sqrt{1605}e^3 \otimes e_9 - \frac{289}{2201} e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{68}{6957} \sqrt{53}e^{12}, \frac{17}{6957} \sqrt{3138}e^{13},$ $\frac{17}{6957} \sqrt{1182}e^{23} + \frac{34}{6957} \sqrt{754}e^{45}, \frac{17}{6957} \sqrt{2470}e^{16}$	$(\frac{68}{2319}, -\frac{391}{6957}, \frac{34}{773}, -\frac{884}{6957}, \frac{799}{6957}, -\frac{187}{6957}, \frac{170}{2319}, -\frac{85}{6957}, \frac{17}{6957})$ $+\frac{17}{2319} \sqrt{374}e^5 \otimes e_7 + \frac{34}{6957} \sqrt{921}e^3 \otimes e_9 + \frac{68}{2319} \sqrt{39}e^1 \otimes e_8$	{25689, 3478}
941:29	$0, 0, 0, 0, 0, \frac{54}{4153} \sqrt{65}e^{12}, \frac{108}{4153} \sqrt{197}e^{13},$ $\frac{54}{4153} \sqrt{1185}e^{23} + \frac{54}{4153} \sqrt{255}e^{45}, \frac{378}{4153} \sqrt{11}e^{16}$	$(-\frac{972}{4153}, \frac{918}{4153}, \frac{432}{4153}, \frac{675}{4153}, \frac{675}{4153}, -\frac{54}{4153}, -\frac{540}{4153}, \frac{1350}{4153}, -\frac{1026}{4153})$ $+\frac{108}{4153} \sqrt{437}e^2 \otimes e_7 + \frac{54}{4153} \sqrt{1985}e^3 \otimes e_9$	{245689, 2689, 34578, 378}
941:29	$0, 0, 0, 0, 0, \frac{4}{9} e^{12}, \frac{2}{9} \sqrt{6}e^{13}, \frac{4}{9} \sqrt{3}e^{23} + \frac{2}{9} \sqrt{2}e^{45}, \frac{2}{9} \sqrt{10}e^{16}$	$(-\frac{1}{6}, -\frac{1}{18}, \frac{1}{2}, \frac{2}{9}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{3}, \frac{4}{9}, -\frac{7}{18})$ $+\frac{2}{9} \sqrt{30}e^3 \otimes e_9$	{12346, 1479, 2347, 469}
941:29	$0, 0, 0, 0, 0, \frac{4}{41} \sqrt{2}e^{12}, \frac{2}{41} \sqrt{3}e^{13}, \frac{2}{41} \sqrt{3}e^{23} + \frac{2}{41} \sqrt{10}e^{45},$ $\frac{2}{41} \sqrt{10}e^{16}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, -\frac{6}{41}, \frac{5}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+\frac{2}{41} \sqrt{11}e^5 \otimes e_9 + \frac{4}{41} \sqrt{2}e^2 \otimes e_7 + \frac{6}{41} \sqrt{2}e^1 \otimes e_8$	{1239, 14567, 24689, 3578}
941:29	$0, 0, 0, 0, 0, \frac{4}{41} \sqrt{2}e^{12}, \frac{2}{41} \sqrt{3}e^{13}, \frac{2}{41} \sqrt{3}e^{23} + \frac{2}{41} \sqrt{10}e^{45},$ $\frac{2}{41} \sqrt{10}e^{16}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, -\frac{6}{41}, \frac{5}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+\frac{2}{41} \sqrt{11}e^5 \otimes e_9 - \frac{4}{41} \sqrt{2}e^2 \otimes e_7 + \frac{6}{41} \sqrt{2}e^1 \otimes e_8$	{1239, 14567, 24689, 3578}
941:29	$0, 0, 0, 0, 0, \frac{1}{297} \sqrt{25718}e^{12}, \frac{1}{297} \sqrt{11022}e^{13},$ $\frac{1}{297} \sqrt{11022}e^{23} + \frac{4}{297} \sqrt{1837}e^{45}, \frac{4}{297} \sqrt{1837}e^{16}$	$(\frac{1}{3}, -\frac{56}{297}, -\frac{4}{99}, -\frac{34}{297}, -\frac{34}{297}, \frac{43}{297}, \frac{29}{99}, -\frac{68}{297}, \frac{142}{297})$ $+\frac{1}{33} \sqrt{1002}e^1 \otimes e_8$	{123459, 1239, 14567, 167, 24689, 3478}
941:29	$0, 0, 0, 0, 0, \frac{4}{613} \sqrt{3806}e^{12}, \frac{2}{613} \sqrt{5709}e^{13},$ $\frac{2}{613} \sqrt{5709}e^{23} + \frac{2}{613} \sqrt{19030}e^{45}, \frac{2}{613} \sqrt{19030}e^{16}$	$(-\frac{151}{613}, \frac{209}{613}, \frac{14}{613}, \frac{253}{613}, -\frac{30}{613}, \frac{58}{613}, -\frac{137}{613}, \frac{223}{613}, -\frac{93}{613})$ $+\frac{10}{613} \sqrt{1730}e^2 \otimes e_7 + \frac{2}{613} \sqrt{48959}e^4 \otimes e_9$	{1239, 14567, 25689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:29	$0, 0, 0, 0, 0, \frac{8}{369}\sqrt{157}e^{12}, \frac{4}{369}\sqrt{2355}e^{13}, \frac{1}{369}\sqrt{4710}e^{23} + \frac{1}{369}\sqrt{20410}e^{45},$ $\frac{2}{369}\sqrt{2041}e^{16}$	$(-\frac{25}{123}, \frac{56}{369}, \frac{7}{41}, \frac{145}{369}, -\frac{26}{369}, -\frac{19}{369}, -\frac{4}{123}, \frac{119}{369}, -\frac{94}{369})$ $+ \frac{1}{123}\sqrt{5966}e^4 \otimes e_7 + \frac{1}{369}\sqrt{49926}e^3 \otimes e_9$	{123456, 179, 237, 4569}
941:29	$0, 0, 0, 0, 0, \frac{2}{761}\sqrt{25718}e^{12}, \frac{2}{761}\sqrt{11022}e^{13},$ $\frac{2}{761}\sqrt{11022}e^{23} + \frac{8}{761}\sqrt{1837}e^{45}, \frac{8}{761}\sqrt{1837}e^{16}$	$(\frac{198}{761}, -\frac{112}{761}, -\frac{24}{761}, \frac{99}{761}, -\frac{235}{761}, \frac{86}{761}, \frac{174}{761}, -\frac{136}{761}, \frac{284}{761})$ $+ \frac{18}{761}\sqrt{1002}e^1 \otimes e_8 + \frac{334}{761}e^4 \otimes e_5$	{24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{39}e^{12}, \frac{1}{14}\sqrt{26}e^{13}, \frac{1}{14}\sqrt{26}e^{23} + \frac{1}{14}\sqrt{130}e^{45},$ $\frac{1}{14}\sqrt{130}e^{16}$	$(-\frac{3}{14}, \frac{1}{7}, \frac{9}{28}, \frac{9}{14}, -\frac{5}{28}, -\frac{1}{14}, \frac{3}{28}, \frac{13}{28}, -\frac{2}{7})$ $+ \frac{1}{14}\sqrt{299}e^4 \otimes e_9$	{1235789, 129, 134567, 1468, 235689, 2679, 345, 478}
941:29	$0, 0, 0, 0, 0, \frac{34}{4113}\sqrt{353}e^{12}, \frac{68}{4113}\sqrt{141}e^{13},$ $\frac{34}{4113}\sqrt{885}e^{23} + \frac{34}{4113}\sqrt{541}e^{45}, \frac{442}{4113}\sqrt{7}e^{16}$	$(\frac{136}{1371}, -\frac{782}{4113}, \frac{68}{457}, -\frac{85}{4113}, -\frac{85}{4113}, -\frac{374}{4113}, \frac{340}{1371}, -\frac{170}{4113}, \frac{34}{4113})$ $+ \frac{34}{4113}\sqrt{1605}e^3 \otimes e_9 + \frac{68}{1371}\sqrt{57}e^1 \otimes e_8$	{24689, 3478}
941:29	$0, 0, 0, 0, 0, \frac{1}{1809}\sqrt{146102}e^{12}, \frac{1}{1809}\sqrt{311982}e^{13},$ $\frac{29}{1809}\sqrt{66}e^{23} + \frac{4}{1809}\sqrt{25201}e^{45}, \frac{20}{1809}\sqrt{319}e^{16}$	$(\frac{19}{201}, \frac{56}{1809}, -\frac{68}{603}, \frac{286}{1809}, -\frac{434}{1809}, \frac{227}{1809}, -\frac{11}{603}, -\frac{148}{1809}, \frac{398}{1809})$ $+ \frac{11}{201}\sqrt{58}e^1 \otimes e_8 + \frac{4}{603}\sqrt{3190}e^4 \otimes e_7$	{1279, 13456, 2356789, 48}
941:29	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{2}{47}\sqrt{26}e^{13}, \frac{2}{47}\sqrt{26}e^{23} + \frac{4}{47}\sqrt{7}e^{45},$ $\frac{4}{47}\sqrt{7}e^{16}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, -\frac{6}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{12}{47})$ $- \frac{2}{47}\sqrt{62}e^2 \otimes e_7 + \frac{6}{47}\sqrt{10}e^1 \otimes e_8 + \frac{8}{47}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{2}{47}\sqrt{26}e^{13}, \frac{2}{47}\sqrt{26}e^{23} + \frac{4}{47}\sqrt{7}e^{45},$ $\frac{4}{47}\sqrt{7}e^{16}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, -\frac{6}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{12}{47})$ $+ \frac{2}{47}\sqrt{62}e^2 \otimes e_7 + \frac{6}{47}\sqrt{10}e^1 \otimes e_8 + \frac{8}{47}e^5 \otimes e_4$	{24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{2}{841}\sqrt{31570}e^{12}, \frac{56}{841}\sqrt{41}e^{13}, \frac{56}{841}\sqrt{41}e^{23} + \frac{4}{841}\sqrt{287}e^{45},$ $\frac{4}{841}\sqrt{287}e^{16}$	$(-\frac{118}{841}, \frac{332}{841}, -\frac{124}{841}, \frac{391}{841}, -\frac{183}{841}, \frac{214}{841}, -\frac{242}{841}, \frac{208}{841}, \frac{96}{841})$ $+ \frac{2}{841}\sqrt{130298}e^2 \otimes e_7 + \frac{574}{841}e^4 \otimes e_5$	{1234, 1235, 14679, 15679}
941:29	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{749}e^{12}, \frac{1}{67}\sqrt{321}e^{13}, \frac{1}{67}\sqrt{321}e^{23} + \frac{2}{67}\sqrt{214}e^{45},$ $\frac{2}{67}\sqrt{214}e^{16}$	$(\frac{9}{134}, \frac{17}{134}, \frac{21}{134}, \frac{63}{67}, -\frac{44}{67}, \frac{13}{67}, \frac{15}{67}, \frac{19}{67}, \frac{35}{134})$ $+ \frac{107}{67}e^4 \otimes e_5$	{124789, 125789, 13468, 13568, 24689, 25689, 3478, 3578}
941:29	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{4}{13}\sqrt{3}e^{23} + \frac{2}{13}\sqrt{2}e^{45},$ $\frac{2}{13}\sqrt{10}e^{16}$	$(-\frac{3}{26}, -\frac{1}{26}, \frac{9}{26}, \frac{6}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, \frac{4}{13}, -\frac{7}{26})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 - \frac{8}{13}e^4 \otimes e_5$	{12346, 12356, 1479, 1579, 2347, 2357, 469, 569}
941:29	$0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13}, \frac{4}{13}\sqrt{3}e^{23} + \frac{2}{13}\sqrt{2}e^{45},$ $\frac{2}{13}\sqrt{10}e^{16}$	$(-\frac{3}{26}, -\frac{1}{26}, \frac{9}{26}, \frac{6}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, \frac{4}{13}, -\frac{7}{26})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 + \frac{8}{13}e^4 \otimes e_5$	{12346, 12356, 1479, 1579, 2347, 2357, 469, 569}
941:29	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{10}e^{12}, \frac{2}{43}\sqrt{26}e^{13}, \frac{2}{43}\sqrt{26}e^{23} + \frac{4}{43}\sqrt{7}e^{45},$ $\frac{4}{43}\sqrt{7}e^{16}$	$(\frac{4}{43}, \frac{4}{43}, -\frac{8}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{8}{43}, -\frac{4}{43}, -\frac{4}{43}, \frac{12}{43})$ $- \frac{2}{43}\sqrt{62}e^2 \otimes e_7 + \frac{6}{43}\sqrt{10}e^1 \otimes e_8$	{123459, 1239, 14567, 167, 24689, 3478}
941:29	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{10}e^{12}, \frac{2}{43}\sqrt{26}e^{13}, \frac{2}{43}\sqrt{26}e^{23} + \frac{4}{43}\sqrt{7}e^{45},$ $\frac{4}{43}\sqrt{7}e^{16}$	$(\frac{4}{43}, \frac{4}{43}, -\frac{8}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{8}{43}, -\frac{4}{43}, -\frac{4}{43}, \frac{12}{43})$ $+ \frac{2}{43}\sqrt{62}e^2 \otimes e_7 + \frac{6}{43}\sqrt{10}e^1 \otimes e_8$	{123459, 1239, 14567, 167, 24689, 3478}
941:29	$0, 0, 0, 0, 0, \frac{8}{1323}\sqrt{1111}e^{12}, \frac{1}{1323}\sqrt{1326534}e^{13},$ $\frac{101}{1323}\sqrt{66}e^{23} + \frac{1}{1323}\sqrt{301081}e^{45}, \frac{1}{1323}\sqrt{295526}e^{16}$	$(-\frac{26}{147}, \frac{533}{1323}, -\frac{32}{441}, \frac{781}{1323}, -\frac{344}{1323}, \frac{299}{1323}, -\frac{110}{441}, \frac{437}{1323}, \frac{65}{1323})$ $+ \frac{5}{441}\sqrt{11110}e^4 \otimes e_7$	{1234689, 12679, 1345, 1578, 235789, 2459, 367, 468}
941:29	$0, 0, 0, 0, 0, \frac{6}{179}\sqrt{14}e^{12}, \frac{3}{179}\sqrt{518}e^{13}, \frac{3}{179}\sqrt{434}e^{23} + \frac{42}{179}\sqrt{5}e^{45},$ $\frac{3}{179}\sqrt{266}e^{16}$	$(-\frac{42}{179}, \frac{45}{179}, \frac{12}{179}, \frac{33}{179}, \frac{24}{179}, \frac{3}{179}, -\frac{30}{179}, \frac{57}{179}, -\frac{39}{179})$ $+ \frac{3}{179}\sqrt{1190}e^4 \otimes e_7 + \frac{6}{179}\sqrt{266}e^5 \otimes e_9$	{123489, 1279, 13456, 15678}
941:29	$0, 0, 0, 0, 0, \frac{4}{893}\sqrt{2226}e^{12}, \frac{2}{893}\sqrt{1219}e^{13},$ $\frac{2}{893}\sqrt{1219}e^{23} + \frac{2}{893}\sqrt{15370}e^{45}, \frac{2}{893}\sqrt{15370}e^{16}$	$(\frac{69}{893}, -\frac{91}{893}, \frac{54}{893}, \frac{153}{893}, -\frac{10}{47}, -\frac{22}{893}, \frac{123}{893}, -\frac{37}{893}, \frac{1}{19})$ $+ \frac{14}{893}\sqrt{371}e^4 \otimes e_9 + \frac{30}{893}\sqrt{106}e^1 \otimes e_8$	{1239, 14567, 25689, 3478}
941:30	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{5302}e^{12}, \frac{4}{323}\sqrt{1446}e^{13}, \frac{1}{323}\sqrt{723}e^{24} + \frac{1}{323}\sqrt{1687}e^{35},$ $\frac{2}{323}\sqrt{482}e^{16}$	$(-\frac{52}{323}, \frac{8}{19}, -\frac{105}{323}, -\frac{105}{323}, \frac{84}{323}, \frac{84}{323}, \frac{31}{323}, \frac{32}{323})$ $+ \frac{1}{19}\sqrt{241}e^3 \otimes e_5 + \frac{1}{323}\sqrt{68685}e^2 \otimes e_4$	{123, 1257, 13469, 145679, 2367, 256, 3479, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:30	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{5302}e^{12}, \frac{4}{323}\sqrt{1446}e^{13}, \frac{1}{323}\sqrt{723}e^{24} + \frac{1}{323}\sqrt{1687}e^{35},$ $\frac{2}{323}\sqrt{482}e^{16}$	$(-\frac{52}{323}, \frac{8}{19}, \frac{8}{19}, -\frac{105}{323}, -\frac{105}{323}, \frac{84}{323}, \frac{84}{323}, \frac{31}{323}, \frac{32}{323})$ $-\frac{1}{19}\sqrt{241}e^3 \otimes e_5 + \frac{1}{323}\sqrt{68685}e^2 \otimes e_4$	{123, 1257, 13469, 145679, 2367, 256, 3479, 459}
941:30	$0, 0, 0, 0, 0, \frac{5}{437}\sqrt{290}e^{12}, \frac{3}{437}\sqrt{6670}e^{13},$ $\frac{1}{437}\sqrt{37410}e^{24} + \frac{1}{437}\sqrt{29290}e^{35}, \frac{58}{437}\sqrt{5}e^{16}$	$(-\frac{91}{437}, \frac{157}{437}, \frac{103}{437}, -\frac{96}{437}, -\frac{42}{437}, \frac{66}{437}, \frac{12}{437}, \frac{61}{437}, -\frac{25}{437})$ $+\frac{2}{437}\sqrt{16530}e^2 \otimes e_7 + \frac{4}{437}\sqrt{3190}e^3 \otimes e_5$	{123469, 157, 2459, 367}
941:30	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{138}e^{12}, \frac{3}{19}\sqrt{46}e^{13}, \frac{1}{19}\sqrt{138}e^{24} + \frac{1}{19}\sqrt{138}e^{35},$ $\frac{2}{19}\sqrt{23}e^{16}$	$(-\frac{1}{19}, \frac{3}{19}, \frac{13}{19}, 0, -\frac{10}{19}, \frac{2}{19}, \frac{12}{19}, \frac{3}{19}, \frac{1}{19})$ $+\frac{4}{19}\sqrt{46}e^3 \otimes e_5$	{123469, 1245679, 13, 157, 23479, 2459, 367, 56}
941:30	$0, 0, 0, 0, 0, \frac{45}{7001}\sqrt{1106}e^{12}, \frac{45}{7001}\sqrt{1658}e^{13},$ $\frac{45}{7001}\sqrt{1178}e^{24} + \frac{360}{7001}\sqrt{57}e^{35}, \frac{180}{7001}\sqrt{106}e^{16}$	$(-\frac{1620}{7001}, \frac{1935}{7001}, \frac{720}{7001}, -\frac{90}{7001}, \frac{1125}{7001}, \frac{315}{7001}, -\frac{900}{7001}, \frac{1845}{7001}, -\frac{1305}{7001})$ $+\frac{135}{7001}\sqrt{614}e^3 \otimes e_9 + \frac{45}{7001}\sqrt{2578}e^2 \otimes e_4 + \frac{45}{7001}\sqrt{4678}e^5 \otimes e_7$	{1279, 13456}
941:30	$0, 0, 0, 0, 0, \frac{7}{61}\sqrt{30}e^{12}, \frac{6}{61}\sqrt{70}e^{13}, \frac{1}{61}\sqrt{2310}e^{24} + \frac{10}{61}\sqrt{14}e^{35},$ $\frac{3}{61}\sqrt{70}e^{16}$	$(0, -\frac{6}{61}, -\frac{10}{61}, \frac{25}{61}, \frac{29}{61}, -\frac{6}{61}, -\frac{10}{61}, \frac{19}{61}, -\frac{6}{61})$ $+\frac{1}{61}\sqrt{210}e^5 \otimes e_9 + \frac{2}{61}\sqrt{910}e^4 \otimes e_7$	{123469, 126789, 13458, 157}
941:30	$0, 0, 0, 0, 0, \frac{1}{104}\sqrt{870}e^{12}, \frac{1}{208}\sqrt{3422}e^{13}, \frac{3}{104}\sqrt{58}e^{24} + \frac{1}{208}\sqrt{6206}e^{35},$ $\frac{3}{52}\sqrt{29}e^{16}$	$(\frac{21}{104}, \frac{23}{208}, -\frac{29}{104}, \frac{7}{208}, \frac{21}{104}, \frac{19}{208}, -\frac{1}{13}, -\frac{1}{13}, \frac{61}{208})$ $+\frac{15}{208}\sqrt{58}e^1 \otimes e_8 + \frac{1}{208}\sqrt{8178}e^5 \otimes e_7$	{123459, 12479, 1356, 167, 236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{1}{104}\sqrt{870}e^{12}, \frac{1}{208}\sqrt{3422}e^{13}, \frac{3}{104}\sqrt{58}e^{24} + \frac{1}{208}\sqrt{6206}e^{35},$ $\frac{3}{52}\sqrt{29}e^{16}$	$(\frac{21}{104}, -\frac{23}{208}, -\frac{29}{104}, \frac{7}{208}, \frac{21}{104}, \frac{19}{208}, -\frac{1}{13}, -\frac{1}{13}, \frac{61}{208})$ $+\frac{15}{208}\sqrt{58}e^1 \otimes e_8 - \frac{1}{208}\sqrt{8178}e^5 \otimes e_7$	{123459, 12479, 1356, 167, 236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{1}{173}\sqrt{4690}e^{24} + \frac{20}{519}\sqrt{201}e^{35}, \frac{8}{173}\sqrt{1005}e^{13},$ $\frac{1}{519}\sqrt{67134}e^{12}, \frac{20}{519}\sqrt{201}e^{35}, \frac{1}{173}\sqrt{7370}e^{16}$	$(-\frac{40}{173}, \frac{58}{173}, \frac{4}{173}, -\frac{9}{173}, \frac{45}{173}, \frac{18}{173}, -\frac{36}{173}, \frac{49}{173}, -\frac{22}{173})$ $+\frac{1}{519}\sqrt{113766}e^5 \otimes e_9 + \frac{4}{519}\sqrt{4623}e^2 \otimes e_4$	{129, 134567, 2679, 345}
941:30	$0, 0, 0, 0, 0, \frac{2}{695}\sqrt{3763}e^{12}, \frac{2}{695}\sqrt{18105}e^{13},$ $\frac{2}{695}\sqrt{18957}e^{24} + \frac{2}{695}\sqrt{3763}e^{35}, \frac{12}{695}\sqrt{71}e^{16}$	$(\frac{25}{139}, -\frac{148}{695}, -\frac{136}{695}, \frac{131}{695}, \frac{119}{695}, -\frac{23}{695}, -\frac{11}{695}, -\frac{17}{695}, \frac{102}{695})$ $+\frac{4}{695}\sqrt{5893}e^4 \otimes e_7 + \frac{6}{695}\sqrt{2343}e^1 \otimes e_8$	{12346, 1579, 23578, 4689}
941:30	$0, 0, 0, 0, 0, \frac{8}{89}\sqrt{5}e^{12}, \frac{8}{89}e^{13}, \frac{4}{89}\sqrt{46}e^{24} + \frac{8}{89}\sqrt{5}e^{35},$ $\frac{4}{89}\sqrt{58}e^{16}$	$(\frac{14}{89}, -\frac{23}{89}, -\frac{2}{89}, \frac{21}{89}, 0, -\frac{9}{89}, \frac{12}{89}, -\frac{2}{89}, \frac{5}{89})$ $+\frac{12}{89}\sqrt{10}e^1 \otimes e_8 + \frac{8}{89}\sqrt{17}e^4 \otimes e_9$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{20}{1007}\sqrt{426}e^{12}, \frac{2}{1007}\sqrt{82005}e^{13},$ $\frac{5}{1007}\sqrt{9798}e^{24} + \frac{1}{1007}\sqrt{90170}e^{35}, \frac{2}{1007}\sqrt{2130}e^{16}$	$(-\frac{123}{1007}, -\frac{18}{1007}, \frac{91}{1007}, \frac{17}{53}, \frac{214}{1007}, -\frac{141}{1007}, -\frac{32}{1007}, \frac{305}{1007}, -\frac{264}{1007})$ $+\frac{1}{1007}\sqrt{240690}e^3 \otimes e_9 + \frac{1}{1007}\sqrt{412510}e^4 \otimes e_7$	{126789, 13458, 2459, 367}
941:30	$0, 0, 0, 0, 0, \frac{4}{1109}\sqrt{114}e^{12}, \frac{2}{1109}\sqrt{590}e^{13}, \frac{4}{1109}\sqrt{33}e^{24} + \frac{2}{1109}\sqrt{1238}e^{35},$ $\frac{36}{1109}\sqrt{3}e^{16}$	$(\frac{18}{1109}, -\frac{52}{1109}, -\frac{8}{1109}, \frac{62}{1109}, \frac{18}{1109}, -\frac{34}{1109}, \frac{10}{1109}, \frac{10}{1109}, -\frac{16}{1109})$ $+\frac{2}{1109}\sqrt{930}e^5 \otimes e_7 + \frac{4}{1109}\sqrt{354}e^3 \otimes e_9 + \frac{6}{1109}\sqrt{190}e^1 \otimes e_8$	{12479, 1356, 25689, 3478}
941:30	$0, 0, 0, 0, 0, \frac{4}{1109}\sqrt{114}e^{12}, \frac{2}{1109}\sqrt{590}e^{13}, \frac{4}{1109}\sqrt{33}e^{24} + \frac{2}{1109}\sqrt{1238}e^{35},$ $\frac{36}{1109}\sqrt{3}e^{16}$	$(\frac{18}{1109}, -\frac{52}{1109}, -\frac{8}{1109}, \frac{62}{1109}, \frac{18}{1109}, -\frac{34}{1109}, \frac{10}{1109}, \frac{10}{1109}, -\frac{16}{1109})$ $-\frac{2}{1109}\sqrt{930}e^5 \otimes e_7 + \frac{4}{1109}\sqrt{354}e^3 \otimes e_9 + \frac{6}{1109}\sqrt{190}e^1 \otimes e_8$	{12479, 1356, 25689, 3478}
941:30	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{1}{112}\sqrt{238}e^{13}, \frac{1}{56}\sqrt{154}e^{24} + \frac{1}{112}\sqrt{462}e^{35},$ $\frac{1}{4}e^{16}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $-\frac{1}{112}\sqrt{546}e^5 \otimes e_7 + \frac{1}{14}\sqrt{14}e^4 \otimes e_9 + \frac{3}{112}\sqrt{154}e^1 \otimes e_8$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{1}{112}\sqrt{238}e^{13}, \frac{1}{56}\sqrt{154}e^{24} + \frac{1}{112}\sqrt{462}e^{35},$ $\frac{1}{4}e^{16}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $+\frac{1}{112}\sqrt{546}e^5 \otimes e_7 + \frac{1}{14}\sqrt{14}e^4 \otimes e_9 + \frac{3}{112}\sqrt{154}e^1 \otimes e_8$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{252}{1291}e^{12}, \frac{9}{1291}\sqrt{5110}e^{13}, \frac{18}{1291}\sqrt{777}e^{24} + \frac{9}{1291}\sqrt{462}e^{35},$ $\frac{9}{1291}\sqrt{1498}e^{16}$	$(-\frac{378}{1291}, \frac{477}{1291}, \frac{288}{1291}, -\frac{72}{1291}, \frac{117}{1291}, \frac{99}{1291}, -\frac{90}{1291}, \frac{405}{1291}, -\frac{279}{1291})$ $+\frac{36}{1291}\sqrt{469}e^3 \otimes e_9 + \frac{99}{1291}\sqrt{70}e^2 \otimes e_7$	{2469, 25689, 3478, 357}
941:30	$0, 0, 0, 0, 0, \frac{1}{335}\sqrt{582}e^{12}, \frac{12}{335}\sqrt{5}e^{13}, \frac{1}{335}\sqrt{498}e^{24} + \frac{8}{335}\sqrt{13}e^{35},$ $\frac{3}{335}\sqrt{74}e^{16}$	$(0, \frac{6}{335}, -\frac{8}{335}, -\frac{7}{335}, \frac{7}{335}, \frac{6}{335}, -\frac{8}{335}, -\frac{1}{335}, \frac{6}{335})$ $+\frac{12}{335}\sqrt{3}e^1 \otimes e_8 + \frac{1}{67}\sqrt{30}e^5 \otimes e_9 + \frac{4}{335}\sqrt{38}e^4 \otimes e_7$	{129, 134567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:30	$0, 0, 0, 0, 0, \frac{3}{623} \sqrt{7810}e^{12}, \frac{1}{623} \sqrt{7810}e^{13}, \frac{1}{623} \sqrt{23430}e^{24} + \frac{11}{623} \sqrt{710}e^{35}, \frac{2}{623} \sqrt{23430}e^{16}$	$(-\frac{139}{623}, \frac{187}{623}, -\frac{29}{623}, \frac{48}{623}, \frac{264}{623}, \frac{48}{623}, -\frac{24}{89}, \frac{235}{623}, -\frac{13}{89}) + \frac{2}{623} \sqrt{42245}e^2 \otimes e_7 + \frac{4}{623} \sqrt{13490}e^5 \otimes e_9$	{1249, 13567, 23689, 4578}
941:30	$0, 0, 0, 0, 0, \frac{1}{71} \sqrt{590}e^{12}, \frac{1}{71} \sqrt{3422}e^{13}, \frac{3}{71} \sqrt{354}e^{24} + \frac{1}{71} \sqrt{1770}e^{35}, \frac{2}{71} \sqrt{177}e^{16}$	$(-\frac{17}{71}, \frac{39}{71}, -\frac{3}{71}, -\frac{16}{71}, \frac{26}{71}, \frac{22}{71}, -\frac{20}{71}, \frac{23}{71}, \frac{5}{71}) + \frac{2}{71} \sqrt{1770}e^2 \otimes e_7$	{1234, 12358, 146789, 15679, 2456, 268, 345789, 379}
941:30	$0, 0, 0, 0, 0, \frac{1}{1139} \sqrt{1380670}e^{12}, \frac{1}{1139} \sqrt{576874}e^{13}, \frac{1}{1139} \sqrt{451110}e^{24} + \frac{1}{1139} \sqrt{527662}e^{35}, \frac{2}{1139} \sqrt{94323}e^{16}$	$(-\frac{229}{1139}, \frac{47}{67}, \frac{13}{67}, -\frac{568}{1139}, \frac{10}{1139}, \frac{570}{1139}, -\frac{8}{1139}, \frac{231}{1139}, \frac{341}{1139}) + \frac{12}{1139} \sqrt{17771}e^2 \otimes e_4$	{123579, 129, 134567, 146, 23569, 2679, 345, 47}
941:30	$0, 0, 0, 0, 0, \frac{4}{1193} \sqrt{6546}e^{12}, \frac{2}{1193} \sqrt{76370}e^{13}, \frac{1}{1193} \sqrt{150558}e^{24} + \frac{2}{1193} \sqrt{204017}e^{35}, \frac{3}{1193} \sqrt{85098}e^{16}$	$(-\frac{324}{1193}, \frac{236}{1193}, \frac{679}{1193}, \frac{284}{1193}, -\frac{159}{1193}, -\frac{88}{1193}, \frac{355}{1193}, \frac{520}{1193}, -\frac{412}{1193}) + \frac{2}{1193} \sqrt{533499}e^3 \otimes e_9$	{1245789, 1279, 13456, 1368, 245689, 269, 3457, 378}
941:30	$0, 0, 0, 0, 0, \frac{1}{77} \sqrt{730}e^{12}, \frac{1}{77} \sqrt{146}e^{13}, \frac{1}{77} \sqrt{4234}e^{24} + \frac{1}{77} \sqrt{730}e^{35}, \frac{2}{77} \sqrt{949}e^{16}$	$(-\frac{1}{11}, -\frac{1}{7}, \frac{19}{77}, \frac{48}{77}, \frac{18}{77}, -\frac{18}{77}, \frac{12}{77}, \frac{37}{77}, -\frac{25}{77}) + \frac{8}{77} \sqrt{146}e^4 \otimes e_9$	{123467, 12456, 1379, 159, 234, 2457, 369, 5679}
941:30	$0, 0, 0, 0, 0, \frac{8}{893} \sqrt{1122}e^{12}, \frac{48}{893} \sqrt{55}e^{13}, \frac{8}{893} \sqrt{1551}e^{24} + \frac{8}{893} \sqrt{1122}e^{35}, \frac{8}{893} \sqrt{1639}e^{16}$	$(\frac{196}{893}, -\frac{129}{893}, \frac{98}{893}, -\frac{27}{893}, -\frac{254}{893}, \frac{67}{893}, \frac{294}{893}, -\frac{156}{893}, \frac{263}{893}) + \frac{24}{893} \sqrt{627}e^1 \otimes e_8 + \frac{8}{893} \sqrt{2926}e^3 \otimes e_5$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{1}{19} \sqrt{55}e^{12}, \frac{2}{19} \sqrt{22}e^{13}, \frac{11}{19}e^{24} + \frac{1}{19} \sqrt{55}e^{35}, \frac{1}{19} \sqrt{55}e^{16}$	$(-\frac{2}{19}, -\frac{1}{19}, \frac{8}{19}, \frac{6}{19}, -\frac{3}{19}, -\frac{3}{19}, \frac{6}{19}, \frac{5}{19}, -\frac{5}{19}) + \frac{1}{19} \sqrt{165}e^3 \otimes e_5 + \frac{1}{19} \sqrt{209}e^4 \otimes e_9$	{12346, 124567, 139, 1579, 2347, 245, 3679, 569}
941:30	$0, 0, 0, 0, 0, \frac{1}{19} \sqrt{55}e^{12}, \frac{2}{19} \sqrt{22}e^{13}, \frac{11}{19}e^{24} + \frac{1}{19} \sqrt{55}e^{35}, \frac{1}{19} \sqrt{55}e^{16}$	$(-\frac{2}{19}, -\frac{1}{19}, \frac{8}{19}, \frac{6}{19}, -\frac{3}{19}, -\frac{3}{19}, \frac{6}{19}, \frac{5}{19}, -\frac{5}{19}) + \frac{1}{19} \sqrt{165}e^3 \otimes e_5 - \frac{1}{19} \sqrt{209}e^4 \otimes e_9$	{12346, 124567, 139, 1579, 2347, 245, 3679, 569}
941:30	$0, 0, 0, 0, 0, \frac{2}{343} \sqrt{12805}e^{12}, \frac{2}{343} \sqrt{21867}e^{13}, \frac{1}{343} \sqrt{79194}e^{24} + \frac{2}{343} \sqrt{12805}e^{35}, \frac{3}{343} \sqrt{2758}e^{16}$	$(\frac{4}{343}, -\frac{38}{343}, -\frac{59}{343}, \frac{142}{343}, \frac{163}{343}, -\frac{34}{343}, -\frac{55}{343}, \frac{104}{343}, -\frac{30}{343}) + \frac{2}{343} \sqrt{30535}e^4 \otimes e_7$	{123469, 126789, 13458, 157, 235789, 2459, 367, 468}
941:30	$0, 0, 0, 0, 0, \frac{84}{1669} \sqrt{10}e^{12}, \frac{28}{1669} \sqrt{10}e^{13}, \frac{28}{1669} \sqrt{30}e^{24} + \frac{28}{1669} \sqrt{110}e^{35}, \frac{56}{1669} \sqrt{30}e^{16}$	$(\frac{91}{1669}, -\frac{49}{1669}, -\frac{238}{1669}, \frac{42}{1669}, \frac{231}{1669}, \frac{42}{1669}, -\frac{147}{1669}, -\frac{7}{1669}, \frac{133}{1669}) + \frac{14}{1669} \sqrt{269}e^2 \otimes e_7 - \frac{14}{1669} \sqrt{509}e^5 \otimes e_9 + \frac{378}{1669} e^1 \otimes e_8$	{1249, 13567, 23689, 4578}
941:30	$0, 0, 0, 0, 0, \frac{84}{1669} \sqrt{10}e^{12}, \frac{28}{1669} \sqrt{10}e^{13}, \frac{28}{1669} \sqrt{30}e^{24} + \frac{28}{1669} \sqrt{110}e^{35}, \frac{56}{1669} \sqrt{30}e^{16}$	$(\frac{91}{1669}, -\frac{49}{1669}, -\frac{238}{1669}, \frac{42}{1669}, \frac{231}{1669}, \frac{42}{1669}, -\frac{147}{1669}, -\frac{7}{1669}, \frac{133}{1669}) + \frac{14}{1669} \sqrt{269}e^2 \otimes e_7 + \frac{14}{1669} \sqrt{509}e^5 \otimes e_9 + \frac{378}{1669} e^1 \otimes e_8$	{1249, 13567, 23689, 4578}
941:30	$0, 0, 0, 0, 0, \frac{2}{3889} \sqrt{127281}e^{12}, \frac{10}{3889} \sqrt{2717}e^{13}, \frac{2}{3889} \sqrt{44517}e^{24} + \frac{2}{3889} \sqrt{233453}e^{35}, \frac{132}{3889} \sqrt{57}e^{16}$	$(\frac{243}{3889}, -\frac{392}{3889}, \frac{512}{3889}, \frac{217}{3889}, -\frac{687}{3889}, -\frac{149}{3889}, \frac{755}{3889}, -\frac{175}{3889}, \frac{94}{3889}) + \frac{4}{3889} \sqrt{79629}e^3 \otimes e_9 + \frac{6}{3889} \sqrt{44935}e^1 \otimes e_8$	{12479, 1356, 25689, 3478}
941:30	$0, 0, 0, 0, 0, \frac{2}{1631} \sqrt{34889}e^{12}, \frac{1}{1631} \sqrt{183230}e^{13}, \frac{12}{1631} \sqrt{1506}e^{24} + \frac{1}{1631} \sqrt{28614}e^{35}, \frac{1}{1631} \sqrt{100902}e^{16}$	$(\frac{124}{1631}, \frac{129}{1631}, -\frac{246}{1631}, -\frac{256}{1631}, \frac{17}{233}, \frac{253}{1631}, -\frac{122}{1631}, -\frac{127}{1631}, \frac{377}{1631}) + \frac{12}{1631} \sqrt{2761}e^1 \otimes e_8 + \frac{1}{1631} \sqrt{332826}e^2 \otimes e_7$	{123459, 167, 25689, 3478}
941:30	$0, 0, 0, 0, 0, \frac{2}{3833} \sqrt{38361}e^{12}, \frac{2}{3833} \sqrt{518210}e^{13}, \frac{2}{3833} \sqrt{147387}e^{24} + \frac{2}{3833} \sqrt{736262}e^{35}, \frac{18}{3833} \sqrt{4038}e^{16}$	$(-\frac{819}{3833}, \frac{656}{3833}, \frac{364}{3833}, \frac{599}{3833}, \frac{891}{3833}, -\frac{163}{3833}, -\frac{455}{3833}, \frac{1255}{3833}, -\frac{982}{3833}) + \frac{2}{3833} \sqrt{1080165}e^5 \otimes e_7 + \frac{4}{3833} \sqrt{310926}e^3 \otimes e_9$	{12356, 1479, 23478, 5689}
941:30	$0, 0, 0, 0, 0, \frac{2}{209} \sqrt{3355}e^{12}, \frac{2}{209} \sqrt{671}e^{13}, \frac{2}{209} \sqrt{2013}e^{24} + \frac{2}{209} \sqrt{3355}e^{35}, \frac{2}{209} \sqrt{4026}e^{16}$	$(\frac{7}{19}, -\frac{50}{209}, -\frac{28}{209}, \frac{5}{209}, -\frac{17}{209}, \frac{27}{209}, \frac{49}{209}, -\frac{45}{209}, \frac{104}{209}) + \frac{6}{209} \sqrt{1159}e^1 \otimes e_8$	{123459, 12479, 1356, 167, 236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{1}{287} \sqrt{28006}e^{12}, \frac{10}{287} \sqrt{418}e^{13}, \frac{19}{287} \sqrt{66}e^{24} + \frac{2}{287} \sqrt{15466}e^{35}, \frac{1}{287} \sqrt{53922}e^{16}$	$(-\frac{52}{287}, \frac{34}{287}, -\frac{4}{287}, \frac{101}{287}, \frac{139}{287}, -\frac{18}{287}, -\frac{8}{41}, \frac{135}{287}, -\frac{10}{41}) + \frac{9}{287} \sqrt{1254}e^5 \otimes e_9$	{1234789, 129, 134567, 1568, 234689, 2679, 345, 578}
941:30	$0, 0, 0, 0, 0, \frac{1}{377} \sqrt{1330}e^{12}, \frac{1}{377} \sqrt{22078}e^{13}, \frac{1}{377} \sqrt{39634}e^{24} + \frac{1}{377} \sqrt{17290}e^{35}, \frac{38}{377} \sqrt{7}e^{16}$	$(-\frac{79}{377}, \frac{73}{377}, \frac{19}{377}, \frac{48}{377}, \frac{102}{377}, -\frac{6}{377}, -\frac{60}{377}, \frac{121}{377}, -\frac{85}{377}) + \frac{6}{377} \sqrt{1330}e^2 \otimes e_7 + \frac{8}{377} \sqrt{665}e^4 \otimes e_9$	{12346, 1579, 245, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:30	$0, 0, 0, 0, 0, \frac{20}{323}\sqrt{14}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{8}{323}\sqrt{483}e^{24} + \frac{8}{323}\sqrt{231}e^{35},$ $\frac{28}{323}\sqrt{6}e^{16}$	$(-\frac{56}{323}, \frac{40}{323}, \frac{6}{323}, \frac{62}{323}, \frac{96}{323}, -\frac{16}{323}, -\frac{50}{323}, \frac{6}{19}, -\frac{72}{323})$ $-\frac{4}{323}\sqrt{1722}e^2 \otimes e_9 + \frac{8}{323}\sqrt{595}e^4 \otimes e_7$	{12346, 12678, 134589, 1579, 23578, 245, 3679, 4689}
941:30	$0, 0, 0, 0, 0, \frac{20}{323}\sqrt{14}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{8}{323}\sqrt{483}e^{24} + \frac{8}{323}\sqrt{231}e^{35},$ $\frac{28}{323}\sqrt{6}e^{16}$	$(-\frac{56}{323}, \frac{40}{323}, \frac{6}{323}, \frac{62}{323}, \frac{96}{323}, -\frac{16}{323}, -\frac{50}{323}, \frac{6}{19}, -\frac{72}{323})$ $+\frac{4}{323}\sqrt{1722}e^2 \otimes e_9 + \frac{8}{323}\sqrt{595}e^4 \otimes e_7$	{12346, 12678, 134589, 1579, 23578, 245, 3679, 4689}
941:30	$0, 0, 0, 0, 0, \frac{5}{791}\sqrt{82}e^{24} + \frac{10}{2373}\sqrt{4062}e^{12}, \frac{10}{2373}\sqrt{582}e^{13},$ $\frac{5}{791}\sqrt{1254}e^{35}, \frac{3}{791}\sqrt{530}e^{16}$	$(\frac{20}{791}, \frac{10}{791}, -\frac{80}{791}, -\frac{15}{791}, \frac{75}{791}, \frac{30}{791}, -\frac{60}{791}, -\frac{5}{791}, \frac{50}{791})$ $+\frac{20}{2373}\sqrt{141}e^2 \otimes e_4 + \frac{20}{791}\sqrt{39}e^1 \otimes e_8 + \frac{5}{2373}\sqrt{5118}e^5 \otimes e_9$	{129, 134567}
941:30	$0, 0, 0, 0, 0, \frac{9}{424}\sqrt{190}e^{12}, \frac{9}{848}\sqrt{190}e^{13}, \frac{9}{424}\sqrt{26}e^{24} + \frac{9}{848}\sqrt{798}e^{35},$ $\frac{9}{212}\sqrt{35}e^{16}$	$(\frac{45}{424}, \frac{45}{848}, -\frac{81}{424}, -\frac{117}{848}, \frac{45}{424}, \frac{135}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{225}{848})$ $+\frac{27}{848}\sqrt{170}e^1 \otimes e_8 + \frac{9}{106}\sqrt{11}e^2 \otimes e_4 - \frac{9}{848}\sqrt{818}e^5 \otimes e_7$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{9}{424}\sqrt{190}e^{12}, \frac{9}{848}\sqrt{190}e^{13}, \frac{9}{424}\sqrt{26}e^{24} + \frac{9}{848}\sqrt{798}e^{35},$ $\frac{9}{212}\sqrt{35}e^{16}$	$(\frac{45}{424}, \frac{45}{848}, -\frac{81}{424}, -\frac{117}{848}, \frac{45}{424}, \frac{135}{848}, -\frac{9}{106}, -\frac{9}{106}, \frac{225}{848})$ $+\frac{27}{848}\sqrt{170}e^1 \otimes e_8 + \frac{9}{106}\sqrt{11}e^2 \otimes e_4 + \frac{9}{848}\sqrt{818}e^5 \otimes e_7$	{236789, 25689, 3478, 458}
941:30	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{4845}e^{12}, \frac{2}{571}\sqrt{49742}e^{13},$ $\frac{6}{571}\sqrt{323}e^{24} + \frac{2}{571}\sqrt{45866}e^{35}, \frac{6}{571}\sqrt{646}e^{16}$	$(-\frac{21}{571}, \frac{124}{571}, \frac{196}{571}, \frac{109}{571}, \frac{429}{571}, \frac{103}{571}, -\frac{217}{571}, \frac{233}{571}, \frac{82}{571})$ $+\frac{2}{571}\sqrt{152133}e^5 \otimes e_7$	{123569, 12679, 1345, 147, 234789, 24589, 3678, 568}
941:30	$0, 0, 0, 0, 0, \frac{72}{2951}\sqrt{435}e^{12}, \frac{36}{2951}\sqrt{435}e^{13},$ $\frac{36}{2951}\sqrt{849}e^{24} + \frac{108}{2951}\sqrt{203}e^{35}, \frac{36}{2951}\sqrt{195}e^{16}$	$(-\frac{450}{2951}, \frac{1305}{2951}, -\frac{414}{2951}, -\frac{639}{2951}, \frac{1080}{2951}, \frac{855}{2951}, -\frac{864}{2951}, \frac{666}{2951}, \frac{405}{2951})$ $+\frac{36}{2951}\sqrt{3786}e^2 \otimes e_4 + \frac{36}{2951}\sqrt{4047}e^5 \otimes e_7$	{12359, 1279, 13456, 1467}
941:30	$0, 0, 0, 0, 0, \frac{6}{1121}\sqrt{2838}e^{12}, \frac{4}{1121}\sqrt{11649}e^{13},$ $\frac{12}{1121}\sqrt{902}e^{24} + \frac{6}{1121}\sqrt{2838}e^{35}, \frac{2}{1121}\sqrt{14718}e^{16}$	$(-\frac{1}{19}, -\frac{68}{1121}, \frac{137}{1121}, \frac{210}{1121}, \frac{5}{1121}, -\frac{127}{1121}, \frac{78}{1121}, \frac{142}{1121}, -\frac{186}{1121})$ $+\frac{2}{1121}\sqrt{27654}e^3 \otimes e_5 + \frac{2}{1121}\sqrt{43890}e^4 \otimes e_7$	{123469, 157, 2459, 367}
941:30	$0, 0, 0, 0, 0, \frac{64}{3295}\sqrt{22}e^{12}, \frac{64}{3295}\sqrt{67}e^{13},$ $\frac{32}{3295}\sqrt{258}e^{24} + \frac{64}{3295}\sqrt{373}e^{35}, \frac{32}{3295}\sqrt{1578}e^{16}$	$(\frac{478}{3295}, \frac{239}{3295}, -\frac{206}{3295}, -\frac{157}{659}, -\frac{68}{659}, \frac{717}{3295}, \frac{272}{3295}, -\frac{546}{3295}, \frac{239}{659})$ $+\frac{192}{3295}\sqrt{59}e^2 \otimes e_4 + \frac{96}{3295}\sqrt{406}e^1 \otimes e_8$	{23689, 256789, 348, 4578}
941:30	$0, 0, 0, 0, 0, \frac{4}{2551}\sqrt{32810}e^{12}, \frac{4}{2551}\sqrt{58093}e^{13},$ $\frac{4}{2551}\sqrt{99781}e^{24} + \frac{4}{2551}\sqrt{31845}e^{35}, \frac{4}{2551}\sqrt{80095}e^{16}$	$(-\frac{238}{2551}, -\frac{39}{2551}, -\frac{158}{2551}, \frac{1029}{2551}, \frac{1148}{2551}, -\frac{277}{2551}, -\frac{396}{2551}, \frac{990}{2551}, -\frac{515}{2551})$ $+\frac{4}{2551}\sqrt{193965}e^5 \otimes e_7 + \frac{4}{2551}\sqrt{238934}e^4 \otimes e_9$	{123456, 12467, 1359, 179}
941:30	$0, 0, 0, 0, 0, \frac{1}{1697}\sqrt{120406}e^{12}, \frac{16}{1697}\sqrt{286}e^{13},$ $\frac{13}{1697}\sqrt{66}e^{24} + \frac{4}{1697}\sqrt{11869}e^{35}, \frac{1}{1697}\sqrt{186186}e^{16}$	$(\frac{152}{1697}, -\frac{206}{1697}, -\frac{232}{1697}, \frac{215}{1697}, \frac{241}{1697}, -\frac{54}{1697}, -\frac{80}{1697}, \frac{9}{1697}, \frac{98}{1697})$ $+\frac{132}{1697}\sqrt{13}e^1 \otimes e_8 + \frac{27}{1697}\sqrt{286}e^5 \otimes e_9$	{129, 134567, 234689, 578}
941:30	$0, 0, 0, 0, 0, \frac{4}{2989}\sqrt{130034}e^{12}, \frac{2}{2989}\sqrt{45265}e^{13},$ $\frac{2}{2989}\sqrt{278997}e^{24} + \frac{4}{2989}\sqrt{153901}e^{35}, \frac{2}{2989}\sqrt{522605}e^{16}$	$(-\frac{849}{2989}, \frac{1209}{2989}, \frac{1157}{2989}, -\frac{437}{2989}, -\frac{55}{427}, \frac{360}{2989}, \frac{44}{2989}, \frac{772}{2989}, -\frac{489}{2989})$ $+\frac{2}{2989}\sqrt{1223801}e^3 \otimes e_9 + \frac{2}{2989}\sqrt{937397}e^2 \otimes e_4$	{129, 134567, 2679, 345}
941:31	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{10}e^{12}, \frac{4}{43}\sqrt{10}e^{13}, \frac{4}{43}\sqrt{3}e^{23} + \frac{4}{43}\sqrt{7}e^{45},$ $\frac{4}{43}\sqrt{7}e^{26}$	$(\frac{4}{43}, \frac{4}{43}, -\frac{8}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{8}{43}, -\frac{4}{43}, -\frac{4}{43}, \frac{12}{43})$ $+\frac{4}{43}\sqrt{19}e^1 \otimes e_8 - \frac{4}{43}\sqrt{19}e^2 \otimes e_7$	{123459, 1239, 145679, 1679, 2468, 3478}
941:31	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{10}e^{12}, \frac{4}{43}\sqrt{10}e^{13}, \frac{4}{43}\sqrt{3}e^{23} + \frac{4}{43}\sqrt{7}e^{45},$ $\frac{4}{43}\sqrt{7}e^{26}$	$(\frac{4}{43}, \frac{4}{43}, -\frac{8}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{8}{43}, -\frac{4}{43}, -\frac{4}{43}, \frac{12}{43})$ $+\frac{4}{43}\sqrt{19}e^1 \otimes e_8 + \frac{4}{43}\sqrt{19}e^2 \otimes e_7$	{123459, 1239, 145679, 1679, 2468, 3478}
941:31	$0, 0, 0, 0, 0, \frac{32}{895}\sqrt{15}e^{12}, \frac{72}{895}\sqrt{15}e^{13}, \frac{8}{895}\sqrt{590}e^{23} + \frac{24}{895}\sqrt{5}e^{45},$ $\frac{8}{895}\sqrt{1295}e^{26}$	$(-\frac{40}{179}, \frac{16}{179}, \frac{24}{179}, \frac{20}{179}, \frac{20}{179}, \frac{24}{179}, -\frac{16}{179}, \frac{40}{179}, -\frac{8}{179})$ $+\frac{24}{895}\sqrt{230}e^2 \otimes e_7 + \frac{8}{179}\sqrt{78}e^3 \otimes e_9$	{14679, 34578, 378}
941:31	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{154}e^{12}, \frac{2}{57}\sqrt{154}e^{13}, \frac{4}{19}\sqrt{11}e^{23} + \frac{10}{57}\sqrt{22}e^{45},$ $\frac{10}{57}\sqrt{22}e^{26}$	$(-\frac{4}{57}, -\frac{4}{57}, \frac{7}{19}, \frac{32}{57}, -\frac{5}{19}, -\frac{8}{57}, \frac{17}{57}, \frac{17}{57}, -\frac{4}{19})$ $+\frac{2}{57}\sqrt{1034}e^4 \otimes e_9$	{123589, 1279, 1369, 156789, 234678, 2456, 3457, 48}
941:31	$0, 0, 0, 0, 0, \frac{132}{4187}\sqrt{42}e^{12}, \frac{132}{4187}\sqrt{127}e^{13},$ $\frac{12}{4187}\sqrt{5126}e^{23} + \frac{132}{4187}\sqrt{141}e^{45}, \frac{12}{4187}\sqrt{3355}e^{26}$	$(\frac{458}{4187}, \frac{148}{4187}, -\frac{482}{4187}, \frac{768}{4187}, -\frac{1102}{4187}, \frac{606}{4187}, -\frac{24}{4187}, -\frac{334}{4187}, \frac{754}{4187})$ $+\frac{132}{4187}\sqrt{170}e^4 \otimes e_7 + \frac{24}{4187}\sqrt{5137}e^1 \otimes e_8$	{1279, 134569, 235678, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:31	$0, 0, 0, 0, 0, \frac{11}{70}\sqrt{15}e^{12}, \frac{11}{70}\sqrt{15}e^{13}, \frac{1}{35}\sqrt{110}e^{23} + \frac{11}{35}\sqrt{5}e^{45},$ $\frac{1}{70}\sqrt{330}e^{26}$	$(\frac{37}{70}, -\frac{3}{20}, -\frac{3}{28}, -\frac{9}{70}, -\frac{9}{70}, \frac{53}{140}, \frac{59}{140}, -\frac{9}{35}, \frac{8}{35})$ $+\frac{1}{70}\sqrt{6270}e^1 \otimes e_8$	{123459, 1239, 145679, 1679, 2468, 3478}
941:31	$0, 0, 0, 0, 0, \frac{96}{3707}\sqrt{55}e^{12}, \frac{48}{3707}\sqrt{1005}e^{13},$ $\frac{96}{3707}\sqrt{118}e^{23} + \frac{48}{3707}\sqrt{555}e^{45}, \frac{48}{3707}\sqrt{511}e^{26}$	$(\frac{912}{3707}, -\frac{768}{3707}, \frac{48}{337}, -\frac{120}{3707}, -\frac{120}{3707}, \frac{144}{3707}, \frac{1440}{3707}, -\frac{240}{3707}, -\frac{624}{3707})$ $+\frac{48}{3707}\sqrt{1570}e^3 \otimes e_9 + \frac{48}{3707}\sqrt{1702}e^1 \otimes e_8$	{145679, 1679, 3478}
941:31	$0, 0, 0, 0, 0, \frac{11}{70}\sqrt{15}e^{12}, \frac{11}{70}\sqrt{15}e^{13}, \frac{1}{35}\sqrt{110}e^{23} + \frac{1}{70}\sqrt{330}e^{45},$ $\frac{11}{35}\sqrt{5}e^{26}$	$(-\frac{2}{7}, \frac{11}{28}, -\frac{3}{28}, \frac{1}{7}, \frac{1}{7}, \frac{3}{28}, -\frac{11}{28}, \frac{2}{7}, \frac{1}{2})$ $+\frac{1}{70}\sqrt{6270}e^2 \otimes e_7$	{123459, 1239, 145679, 1679, 2468, 3478}
941:31	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{4845}e^{13}, \frac{16}{673}\sqrt{799}e^{23} + \frac{8}{673}\sqrt{4879}e^{45},$ $\frac{8}{673}\sqrt{1717}e^{26}$	$(-\frac{176}{673}, \frac{196}{673}, \frac{18}{673}, \frac{386}{673}, -\frac{172}{673}, \frac{20}{673}, -\frac{158}{673}, \frac{214}{673}, \frac{216}{673})$ $+\frac{24}{673}\sqrt{1054}e^4 \otimes e_7$	{123489, 1279, 134569, 156789, 235678, 2456, 37, 48}
941:31	$0, 0, 0, 0, 0, \frac{22}{195}\sqrt{15}e^{12}, \frac{22}{195}\sqrt{15}e^{13}, \frac{4}{195}\sqrt{110}e^{23} + \frac{2}{195}\sqrt{330}e^{45},$ $\frac{44}{195}\sqrt{5}e^{26}$	$(-\frac{8}{39}, \frac{11}{39}, -\frac{1}{13}, \frac{5}{13}, -\frac{7}{39}, \frac{1}{13}, -\frac{11}{39}, \frac{8}{39}, \frac{14}{39})$ $+\frac{22}{39}e^4 \otimes e_5 + \frac{2}{195}\sqrt{6270}e^2 \otimes e_7$	{2468, 2568, 3478, 3578}
941:31	$0, 0, 0, 0, 0, \frac{32}{975}\sqrt{15}e^{12}, \frac{24}{975}\sqrt{15}e^{13}, \frac{8}{975}\sqrt{590}e^{23} + \frac{8}{325}\sqrt{5}e^{45},$ $\frac{8}{975}\sqrt{1295}e^{26}$	$(-\frac{8}{39}, \frac{16}{195}, \frac{8}{65}, \frac{4}{195}, \frac{12}{65}, -\frac{8}{65}, -\frac{16}{195}, \frac{8}{39}, -\frac{8}{195})$ $+\frac{32}{195}e^5 \otimes e_4 + \frac{8}{195}\sqrt{78}e^3 \otimes e_9 + \frac{8}{325}\sqrt{230}e^2 \otimes e_7$	{14679, 15679}
941:31	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{4}{47}\sqrt{10}e^{13}, \frac{4}{47}\sqrt{3}e^{23} + \frac{4}{47}\sqrt{7}e^{45},$ $\frac{4}{47}\sqrt{7}e^{26}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, -\frac{6}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{12}{47})$ $+\frac{4}{47}\sqrt{19}e^1 \otimes e_8 - \frac{4}{47}\sqrt{19}e^2 \otimes e_7 + \frac{8}{47}e^5 \otimes e_4$	{2468, 2568, 3478, 3578}
941:31	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{10}e^{12}, \frac{4}{47}\sqrt{10}e^{13}, \frac{4}{47}\sqrt{3}e^{23} + \frac{4}{47}\sqrt{7}e^{45},$ $\frac{4}{47}\sqrt{7}e^{26}$	$(\frac{4}{47}, \frac{4}{47}, -\frac{8}{47}, -\frac{6}{47}, \frac{2}{47}, \frac{8}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{12}{47})$ $+\frac{4}{47}\sqrt{19}e^1 \otimes e_8 + \frac{4}{47}\sqrt{19}e^2 \otimes e_7 + \frac{8}{47}e^5 \otimes e_4$	{2468, 2568, 3478, 3578}
941:31	$0, 0, 0, 0, 0, \frac{96}{4283}\sqrt{55}e^{12}, \frac{48}{4283}\sqrt{1005}e^{13},$ $\frac{96}{4283}\sqrt{118}e^{23} + \frac{48}{4283}\sqrt{555}e^{45}, \frac{48}{4283}\sqrt{511}e^{26}$	$(\frac{912}{4283}, -\frac{768}{4283}, \frac{528}{4283}, -\frac{696}{4283}, \frac{456}{4283}, \frac{144}{4283}, \frac{1440}{4283}, -\frac{240}{4283}, -\frac{624}{4283})$ $+\frac{1152}{4283}e^5 \otimes e_4 + \frac{48}{4283}\sqrt{1570}e^3 \otimes e_9 + \frac{48}{4283}\sqrt{1702}e^1 \otimes e_8$	{3478, 3578}
941:31	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{31}e^{12}, \frac{1}{18}\sqrt{31}e^{13}, \frac{1}{9}\sqrt{6}e^{23} + \frac{1}{18}\sqrt{42}e^{45},$ $\frac{1}{9}\sqrt{17}e^{26}$	$(-\frac{2}{9}, \frac{5}{36}, \frac{1}{12}, \frac{1}{3}, -\frac{1}{9}, -\frac{1}{12}, -\frac{5}{36}, \frac{2}{9}, \frac{1}{18})$ $+\frac{1}{18}\sqrt{78}e^2 \otimes e_7 + \frac{2}{9}\sqrt{5}e^4 \otimes e_9$	{123589, 156789, 2456, 3457}
941:31	$0, 0, 0, 0, 0, \frac{10}{513}\sqrt{46}e^{12}, \frac{2}{513}\sqrt{6394}e^{13}, \frac{4}{57}\sqrt{23}e^{23} + \frac{10}{171}\sqrt{46}e^{45},$ $\frac{2}{513}\sqrt{6854}e^{26}$	$(-\frac{112}{513}, \frac{40}{513}, \frac{25}{171}, \frac{55}{513}, \frac{20}{171}, -\frac{8}{57}, -\frac{37}{497}, \frac{115}{513}, -\frac{32}{513})$ $+\frac{2}{513}\sqrt{10718}e^5 \otimes e_9 + \frac{4}{513}\sqrt{2622}e^4 \otimes e_7$	{123489, 1279, 235678, 2456}
941:31	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{129}e^{12}, \frac{1}{27}\sqrt{129}e^{13}, \frac{1}{27}\sqrt{43}e^{23} + \frac{2}{27}\sqrt{43}e^{45},$ $\frac{2}{27}\sqrt{43}e^{26}$	$(\frac{5}{54}, \frac{5}{54}, \frac{1}{6}, \frac{25}{27}, -\frac{2}{3}, \frac{5}{27}, \frac{7}{27}, \frac{7}{27}, \frac{5}{18})$ $+\frac{43}{27}e^4 \otimes e_5$	{123489, 123589, 146789, 156789, 234678, 235678, 48, 58}
941:31	$0, 0, 0, 0, 0, \frac{22}{195}\sqrt{15}e^{12}, \frac{22}{195}\sqrt{15}e^{13}, \frac{4}{195}\sqrt{110}e^{23} + \frac{44}{195}\sqrt{5}e^{45},$ $\frac{2}{195}\sqrt{330}e^{26}$	$(\frac{74}{195}, -\frac{7}{65}, -\frac{1}{13}, \frac{37}{195}, -\frac{73}{195}, \frac{53}{195}, \frac{59}{195}, -\frac{12}{65}, \frac{32}{195})$ $+\frac{22}{39}e^4 \otimes e_5 + \frac{2}{195}\sqrt{6270}e^1 \otimes e_8$	{2468, 2568, 3478, 3578}
941:31	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{714}e^{12}, \frac{4}{497}\sqrt{3927}e^{13}, \frac{12}{497}\sqrt{70}e^{23} + \frac{12}{71}\sqrt{5}e^{45},$ $\frac{12}{497}\sqrt{231}e^{26}$	$(-\frac{14}{71}, \frac{20}{497}, \frac{110}{497}, \frac{180}{497}, -\frac{50}{497}, -\frac{78}{497}, \frac{12}{497}, \frac{130}{497}, -\frac{58}{497})$ $+\frac{4}{497}\sqrt{4830}e^4 \otimes e_7 + \frac{8}{497}\sqrt{1113}e^3 \otimes e_9$	{123468, 1345, 2459, 4689}
941:31	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{31}e^{12}, \frac{1}{18}\sqrt{31}e^{13}, \frac{1}{9}\sqrt{6}e^{23} + \frac{1}{9}\sqrt{17}e^{45},$ $\frac{1}{18}\sqrt{42}e^{26}$	$(\frac{19}{90}, -\frac{3}{20}, \frac{1}{12}, \frac{17}{90}, -\frac{23}{90}, \frac{11}{180}, \frac{53}{180}, -\frac{1}{15}, -\frac{4}{45})$ $+\frac{1}{18}\sqrt{78}e^1 \otimes e_8 + \frac{2}{9}\sqrt{5}e^4 \otimes e_9$	{1279, 1369, 234678, 48}
941:31	$0, 0, 0, 0, 0, \frac{4}{4469}\sqrt{446}e^{12}, \frac{4}{4469}\sqrt{1191}e^{13},$ $\frac{4}{4469}\sqrt{874}e^{23} + \frac{4}{4469}\sqrt{1781}e^{45}, \frac{4}{4469}\sqrt{859}e^{26}$	$(\frac{18}{4469}, -\frac{52}{4469}, \frac{62}{4469}, \frac{88}{4469}, -\frac{78}{4469}, -\frac{34}{4469}, \frac{80}{4469}, \frac{10}{4469}, -\frac{86}{4469})$ $+\frac{4}{4469}\sqrt{1490}e^4 \otimes e_7 + \frac{8}{4469}\sqrt{319}e^1 \otimes e_8 + \frac{8}{4469}\sqrt{331}e^5 \otimes e_9$	{1279, 235678}
941:31	$0, 0, 0, 0, 0, \frac{16}{1373}\sqrt{42}e^{12}, \frac{8}{1373}\sqrt{1353}e^{13},$ $\frac{48}{1373}\sqrt{3}e^{23} + \frac{24}{1373}\sqrt{119}e^{45}, \frac{24}{1373}\sqrt{55}e^{26}$	$(\frac{76}{1373}, -\frac{64}{1373}, \frac{44}{1373}, -\frac{236}{1373}, \frac{216}{1373}, \frac{12}{1373}, \frac{120}{1373}, -\frac{20}{1373}, -\frac{52}{1373})$ $+\frac{104}{1373}\sqrt{6}e^3 \otimes e_9 + \frac{16}{1373}\sqrt{339}e^5 \otimes e_7 + \frac{24}{1373}\sqrt{154}e^1 \otimes e_8$	{1279, 234678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:32	$0, 0, 0, 0, 0, \frac{5}{183}\sqrt{214e^{12}}, \frac{7}{183}\sqrt{214e^{13}}, \frac{1}{61}\sqrt{1070e^{24}} + \frac{5}{183}\sqrt{214e^{35}},$ $\frac{2}{183}\sqrt{1070e^{26}}$	$(-\frac{5}{183}, -\frac{7}{61}, \frac{73}{183}, \frac{20}{61}, -\frac{34}{183}, -\frac{26}{183}, \frac{68}{183}, \frac{13}{61}, -\frac{47}{183})$ $+ \frac{2}{183}\sqrt{4173e^3} \otimes e_5 + \frac{2}{183}\sqrt{4601e^4} \otimes e_9$	{12346, 124567, 3679, 569}
941:32	$0, 0, 0, 0, 0, \frac{4}{1725}\sqrt{1689e^{12}}, \frac{1}{1725}\sqrt{746538e^{13}},$ $\frac{1}{1725}\sqrt{424502e^{24}} + \frac{8}{575}\sqrt{563e^{35}}, \frac{7}{1725}\sqrt{5630e^{26}}$	$(-\frac{511}{1725}, \frac{466}{1725}, \frac{6}{25}, -\frac{67}{575}, -\frac{149}{1725}, -\frac{3}{115}, -\frac{97}{1725}, \frac{53}{345}, \frac{421}{1725})$ $+ \frac{1}{1725}\sqrt{690238e^3} \otimes e_5 + \frac{4}{575}\sqrt{7319e^2} \otimes e_7$	{12349, 15679, 2456, 37}
941:32	$0, 0, 0, 0, 0, \frac{2}{3881}\sqrt{19651e^{12}}, \frac{4}{3881}\sqrt{100083e^{13}},$ $\frac{50}{3881}\sqrt{457e^{24}} + \frac{22}{3881}\sqrt{4570e^{35}}, \frac{2}{3881}\sqrt{457914e^{26}}$	$(-\frac{539}{3881}, \frac{40}{3881}, \frac{295}{3881}, \frac{1005}{3881}, \frac{670}{3881}, -\frac{579}{3881}, -\frac{244}{3881}, \frac{965}{3881}, -\frac{619}{3881})$ $+ \frac{20}{3881}\sqrt{6855e^5} \otimes e_7 + \frac{2}{3881}\sqrt{914457e^3} \otimes e_9$	{1279, 14679, 234678, 378}
941:32	$0, 0, 0, 0, 0, \frac{8}{323}\sqrt{231e^{12}}, \frac{8}{323}\sqrt{483e^{13}}, \frac{24}{323}\sqrt{35e^{24}} + \frac{20}{323}\sqrt{14e^{35}},$ $\frac{28}{323}\sqrt{6e^{26}}$	$(-\frac{42}{323}, -\frac{15}{323}, \frac{40}{323}, \frac{110}{323}, \frac{55}{323}, -\frac{3}{17}, -\frac{2}{323}, \frac{5}{17}, -\frac{72}{323})$ $+ \frac{4}{323}\sqrt{1722e^3} \otimes e_9 + \frac{8}{323}\sqrt{595e^4} \otimes e_7$	{12346, 13458, 2459, 4689}
941:32	$0, 0, 0, 0, 0, \frac{2}{343}\sqrt{12805e^{12}}, \frac{1}{343}\sqrt{79194e^{13}},$ $\frac{2}{343}\sqrt{21867e^{24}} + \frac{2}{343}\sqrt{12805e^{35}}, \frac{3}{343}\sqrt{2758e^{26}}$	$(-\frac{38}{343}, \frac{4}{343}, -\frac{38}{343}, \frac{121}{343}, \frac{163}{343}, -\frac{34}{343}, -\frac{76}{343}, \frac{125}{343}, -\frac{30}{343})$ $+ \frac{2}{343}\sqrt{30535e^4} \otimes e_7$	{123469, 126789, 134589, 1579, 23578, 245, 367, 468}
941:32	$0, 0, 0, 0, 0, \frac{8}{533}\sqrt{231e^{12}}, \frac{3}{533}\sqrt{4466e^{13}}, \frac{2}{533}\sqrt{16401e^{24}} + \frac{8}{533}\sqrt{231e^{35}},$ $\frac{1}{533}\sqrt{19866e^{26}}$	$(\frac{206}{533}, -\frac{154}{533}, -\frac{56}{533}, \frac{129}{533}, \frac{31}{533}, \frac{4}{533}, \frac{150}{533}, -\frac{25}{533}, -\frac{102}{533})$ $+ \frac{2}{533}\sqrt{30261e^1} \otimes e_8 + \frac{4}{533}\sqrt{6006e^4} \otimes e_9$	{13569, 1679, 3478, 458}
941:32	$0, 0, 0, 0, 0, \frac{1}{1307}\sqrt{443170e^{12}}, \frac{3}{1307}\sqrt{2730e^{13}},$ $\frac{1}{1307}\sqrt{115570e^{24}} + \frac{140}{1307}\sqrt{13e^{35}}, \frac{10}{1307}\sqrt{2730e^{26}}$	$(\frac{226}{1307}, \frac{113}{1307}, -\frac{101}{1307}, -\frac{342}{1307}, -\frac{128}{1307}, \frac{339}{1307}, \frac{125}{1307}, -\frac{229}{1307}, \frac{452}{1307})$ $+ \frac{2}{1307}\sqrt{121485e^1} \otimes e_8 + \frac{3}{1307}\sqrt{62790e^2} \otimes e_4$	{123579, 129, 1345679, 1469}
941:32	$0, 0, 0, 0, 0, \frac{3}{143}\sqrt{670e^{12}}, \frac{1}{143}\sqrt{670e^{13}}, \frac{1}{429}\sqrt{43014e^{24}} + \frac{2}{429}\sqrt{10653e^{35}},$ $\frac{2}{429}\sqrt{13065e^{26}}$	$(-\frac{70}{429}, \frac{125}{429}, -\frac{41}{429}, -\frac{76}{429}, \frac{30}{429}, \frac{5}{429}, -\frac{37}{429}, \frac{49}{429}, \frac{60}{429})$ $+ \frac{1}{429}\sqrt{93666e^2} \otimes e_4 + \frac{2}{429}\sqrt{14673e^5} \otimes e_7$	{2356, 267, 345, 47}
941:32	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{15466e^{12}}, \frac{19}{287}\sqrt{66e^{13}},$ $\frac{10}{287}\sqrt{418e^{24}} + \frac{2}{287}\sqrt{28006e^{35}}, \frac{1}{287}\sqrt{53922e^{26}}$	$(-\frac{47}{287}, \frac{110}{287}, \frac{34}{287}, -\frac{99}{287}, -\frac{23}{287}, \frac{9}{41}, -\frac{13}{287}, \frac{11}{287}, \frac{173}{287})$ $+ \frac{9}{287}\sqrt{1254e^2} \otimes e_4$	{123579, 129, 1345679, 1469, 2356, 267, 345, 47}
941:32	$0, 0, 0, 0, 0, \frac{20}{323}\sqrt{14e^{12}}, \frac{8}{323}\sqrt{483e^{13}}, \frac{24}{323}\sqrt{35e^{24}} + \frac{8}{323}\sqrt{231e^{35}},$ $\frac{28}{323}\sqrt{6e^{26}}$	$(\frac{40}{323}, -\frac{56}{323}, -\frac{42}{323}, \frac{110}{323}, \frac{96}{323}, -\frac{16}{323}, -\frac{2}{323}, \frac{54}{323}, -\frac{72}{323})$ $+ \frac{4}{323}\sqrt{1722e^1} \otimes e_9 + \frac{8}{323}\sqrt{595e^4} \otimes e_7$	{12346, 12678, 13458, 157, 235789, 2459, 3679, 4689}
941:32	$0, 0, 0, 0, 0, \frac{20}{323}\sqrt{14e^{12}}, \frac{8}{323}\sqrt{483e^{13}}, \frac{24}{323}\sqrt{35e^{24}} + \frac{8}{323}\sqrt{231e^{35}},$ $\frac{28}{323}\sqrt{6e^{26}}$	$(\frac{40}{323}, -\frac{56}{323}, -\frac{42}{323}, \frac{110}{323}, \frac{96}{323}, -\frac{16}{323}, -\frac{2}{323}, \frac{54}{323}, -\frac{72}{323})$ $- \frac{4}{323}\sqrt{1722e^1} \otimes e_9 + \frac{8}{323}\sqrt{595e^4} \otimes e_7$	{12346, 12678, 13458, 157, 235789, 2459, 3679, 4689}
941:32	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{10e^{12}}, \frac{1}{13}\sqrt{6e^{13}}, \frac{1}{13}\sqrt{10e^{24}} + \frac{1}{13}\sqrt{10e^{35}},$ $\frac{2}{13}\sqrt{3e^{26}}$	$(-\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0, \frac{2}{13}, 0, -\frac{2}{13}, \frac{1}{13}, \frac{1}{13})$ $+ \frac{2}{13}\sqrt{3e^2} \otimes e_4 + \frac{2}{13}\sqrt{3e^5} \otimes e_9$	{129, 1469, 2356, 345}
941:32	$0, 0, 0, 0, 0, \frac{14}{463}\sqrt{55e^{12}}, \frac{1}{463}\sqrt{30954e^{13}}, \frac{2}{463}\sqrt{8547e^{24}} + \frac{14}{463}\sqrt{55e^{35}},$ $\frac{21}{463}\sqrt{22e^{26}}$	$(\frac{82}{463}, -\frac{56}{463}, -\frac{98}{463}, \frac{61}{463}, \frac{103}{463}, \frac{26}{463}, -\frac{16}{463}, \frac{5}{463}, -\frac{30}{463})$ $+ \frac{10}{463}\sqrt{385e^4} \otimes e_7 + \frac{6}{463}\sqrt{770e^1} \otimes e_8$	{123469, 1579, 23578, 468}
941:32	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{28006e^{12}}, \frac{19}{287}\sqrt{66e^{13}},$ $\frac{10}{287}\sqrt{418e^{24}} + \frac{2}{287}\sqrt{15466e^{35}}, \frac{1}{287}\sqrt{53922e^{26}}$	$(\frac{34}{287}, -\frac{52}{287}, -\frac{47}{287}, \frac{144}{287}, \frac{139}{287}, -\frac{18}{287}, -\frac{13}{287}, \frac{92}{287}, -\frac{10}{41})$ $+ \frac{9}{287}\sqrt{1254e^5} \otimes e_9$	{1234789, 129, 136789, 1469, 2356, 245678, 345, 578}
941:32	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{14329e^{12}}, \frac{3}{937}\sqrt{15134e^{13}},$ $\frac{2}{937}\sqrt{13685e^{24}} + \frac{7}{937}\sqrt{2806e^{35}}, \frac{2}{937}\sqrt{966e^{26}}$	$(\frac{263}{937}, -\frac{77}{937}, -\frac{322}{937}, \frac{18}{937}, \frac{263}{937}, \frac{186}{937}, -\frac{59}{937}, -\frac{59}{937}, \frac{109}{937})$ $+ \frac{1}{937}\sqrt{296562e^1} \otimes e_8 + \frac{3}{937}\sqrt{26726e^5} \otimes e_7$	{123459, 12479, 13569, 1679, 23678, 2568, 3478, 458}
941:32	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{14329e^{12}}, \frac{3}{937}\sqrt{15134e^{13}},$ $\frac{2}{937}\sqrt{13685e^{24}} + \frac{7}{937}\sqrt{2806e^{35}}, \frac{2}{937}\sqrt{966e^{26}}$	$(\frac{263}{937}, -\frac{77}{937}, -\frac{322}{937}, \frac{18}{937}, \frac{263}{937}, \frac{186}{937}, -\frac{59}{937}, -\frac{59}{937}, \frac{109}{937})$ $+ \frac{1}{937}\sqrt{296562e^1} \otimes e_8 - \frac{3}{937}\sqrt{26726e^5} \otimes e_7$	{123459, 12479, 13569, 1679, 23678, 2568, 3478, 458}
941:32	$0, 0, 0, 0, 0, \frac{23}{6445}\sqrt{2386e^{12}}, \frac{69}{6445}\sqrt{106e^{13}},$ $\frac{23}{6445}\sqrt{3154e^{24}} + \frac{322}{6445}\sqrt{19e^{35}}, \frac{138}{6445}\sqrt{122e^{26}}$	$(-\frac{230}{1289}, \frac{667}{6445}, \frac{713}{6445}, \frac{138}{6445}, \frac{92}{6445}, -\frac{483}{6445}, -\frac{437}{6445}, \frac{161}{1289}, \frac{184}{6445})$ $+ \frac{23}{6445}\sqrt{3918e^2} \otimes e_4 + \frac{46}{6445}\sqrt{1266e^3} \otimes e_9 + \frac{46}{6445}\sqrt{717e^5} \otimes e_7$	{1279, 14679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:32	$0, 0, 0, 0, 0, \frac{22}{2113}\sqrt{67}e^{12}, \frac{11}{2113}\sqrt{933}e^{13}, \frac{22}{2113}\sqrt{46}e^{24} + \frac{11}{2113}\sqrt{1159}e^{35}, \frac{11}{2113}\sqrt{678}e^{26}$	$(\frac{176}{2113}, -\frac{209}{2113}, -\frac{121}{2113}, \frac{264}{2113}, \frac{176}{2113}, -\frac{33}{2113}, \frac{55}{2113}, \frac{55}{2113}, -\frac{242}{2113}) + \frac{11}{2113}\sqrt{1167}e^5 \otimes e_7 + \frac{11}{2113}\sqrt{1209}e^1 \otimes e_8 + \frac{11}{2113}\sqrt{1506}e^3 \otimes e_9$	{1279, 14679, 234678, 378}
941:32	$0, 0, 0, 0, 0, \frac{22}{2113}\sqrt{67}e^{12}, \frac{11}{2113}\sqrt{933}e^{13}, \frac{22}{2113}\sqrt{46}e^{24} + \frac{11}{2113}\sqrt{1159}e^{35}, \frac{11}{2113}\sqrt{678}e^{26}$	$(\frac{176}{2113}, -\frac{209}{2113}, -\frac{121}{2113}, \frac{264}{2113}, \frac{176}{2113}, -\frac{33}{2113}, \frac{55}{2113}, \frac{55}{2113}, -\frac{242}{2113}) - \frac{11}{2113}\sqrt{1167}e^5 \otimes e_7 + \frac{11}{2113}\sqrt{1209}e^1 \otimes e_8 + \frac{11}{2113}\sqrt{1506}e^3 \otimes e_9$	{1279, 14679, 234678, 378}
941:32	$0, 0, 0, 0, 0, \frac{7}{61}\sqrt{30}e^{12}, \frac{1}{61}\sqrt{2310}e^{13}, \frac{6}{61}\sqrt{70}e^{24} + \frac{10}{61}\sqrt{14}e^{35}, \frac{3}{61}\sqrt{70}e^{26}$	$(-\frac{6}{61}, 0, -\frac{7}{61}, \frac{22}{61}, \frac{29}{61}, -\frac{6}{61}, -\frac{13}{61}, \frac{22}{61}, -\frac{6}{61}) + \frac{1}{61}\sqrt{210}e^5 \otimes e_9 + \frac{2}{61}\sqrt{910}e^4 \otimes e_7$	{123469, 126789, 23578, 245}
941:32	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{301}e^{12}, \frac{4}{119}\sqrt{258}e^{13}, \frac{10}{119}\sqrt{43}e^{24} + \frac{4}{119}\sqrt{430}e^{35}, \frac{8}{119}\sqrt{129}e^{26}$	$(-\frac{11}{119}, -\frac{10}{119}, \frac{55}{119}, \frac{45}{119}, -\frac{20}{119}, -\frac{3}{17}, \frac{44}{119}, \frac{5}{17}, -\frac{31}{119}) + \frac{6}{119}\sqrt{473}e^3 \otimes e_9$	{1245789, 1279, 14679, 156789, 234678, 23567, 3457, 378}
941:32	$0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358}e^{12}, \frac{1}{1109}\sqrt{58366}e^{13}, \frac{2}{1109}\sqrt{9854}e^{24} + \frac{14}{1109}\sqrt{758}e^{35}, \frac{3}{1109}\sqrt{32594}e^{26}$	$(-\frac{146}{1109}, \frac{92}{1109}, -\frac{141}{1109}, \frac{184}{1109}, \frac{417}{1109}, -\frac{54}{1109}, -\frac{287}{1109}, \frac{276}{1109}, \frac{38}{1109}) + \frac{1}{1109}\sqrt{364598}e^5 \otimes e_9 + \frac{4}{1109}\sqrt{23498}e^2 \otimes e_7$	{123489, 14679, 24568, 3457}
941:32	$0, 0, 0, 0, 0, \frac{44}{2401}\sqrt{105}e^{12}, \frac{440}{2401}e^{13}, \frac{110}{2401}\sqrt{10}e^{24} + \frac{22}{2401}\sqrt{290}e^{35}, \frac{330}{2401}\sqrt{2}e^{26}$	$(\frac{209}{2401}, -\frac{11}{2401}, -\frac{66}{343}, -\frac{22}{2401}, \frac{429}{2401}, \frac{198}{2401}, -\frac{253}{2401}, -\frac{33}{2401}, \frac{187}{2401}) + \frac{22}{2401}\sqrt{491}e^5 \otimes e_9 + \frac{22}{2401}\sqrt{881}e^2 \otimes e_7 + \frac{66}{2401}\sqrt{89}e^1 \otimes e_8$	{1679, 2568}
941:32	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{106}e^{12}, \frac{1}{48}\sqrt{583}e^{13}, \frac{1}{48}\sqrt{1590}e^{24} + \frac{1}{24}\sqrt{106}e^{35}, \frac{1}{48}\sqrt{1166}e^{26}$	$(\frac{7}{48}, -\frac{9}{32}, \frac{7}{48}, \frac{11}{16}, \frac{25}{96}, -\frac{13}{96}, \frac{7}{24}, \frac{13}{32}, -\frac{5}{12}) + \frac{1}{48}\sqrt{4187}e^4 \otimes e_9$	{12346, 124567, 13458, 1478, 235789, 289, 3679, 569}
941:32	$0, 0, 0, 0, 0, \frac{2}{3169}\sqrt{150745}e^{12}, \frac{36}{3169}\sqrt{826}e^{13}, \frac{118}{3169}\sqrt{7}e^{24} + \frac{4}{3169}\sqrt{88795}e^{35}, \frac{4}{3169}\sqrt{65667}e^{26}$	$(\frac{671}{3169}, -\frac{578}{3169}, \frac{341}{3169}, \frac{423}{3169}, -\frac{496}{3169}, \frac{93}{3169}, \frac{1012}{3169}, -\frac{155}{3169}, -\frac{485}{3169}) + \frac{4}{3169}\sqrt{136290}e^1 \otimes e_8 + \frac{6}{3169}\sqrt{68145}e^3 \otimes e_9$	{1279, 14679, 234678, 378}
941:32	$0, 0, 0, 0, 0, \frac{14}{1503}\sqrt{917}e^{12}, \frac{1}{1503}\sqrt{497014}e^{13}, \frac{2}{1503}\sqrt{93534}e^{24} + \frac{4}{1503}\sqrt{13755}e^{35}, \frac{1}{1503}\sqrt{394310}e^{26}$	$(\frac{8}{1503}, -\frac{140}{1503}, -\frac{70}{501}, \frac{215}{501}, \frac{715}{501}, -\frac{44}{501}, -\frac{202}{1503}, \frac{505}{1503}, -\frac{272}{1503}) + \frac{2}{1503}\sqrt{299859}e^5 \otimes e_7 + \frac{1}{1503}\sqrt{306278}e^4 \otimes e_9$	{123456, 12467, 23789, 2589}
941:32	$0, 0, 0, 0, 0, \frac{18}{3101}\sqrt{1001}e^{12}, \frac{12}{3101}\sqrt{7062}e^{13}, \frac{6}{3101}\sqrt{2145}e^{24} + \frac{12}{3101}\sqrt{2145}e^{35}, \frac{132}{3101}\sqrt{69}e^{26}$	$(-\frac{789}{3101}, \frac{390}{3101}, \frac{585}{3101}, \frac{275}{3101}, \frac{80}{3101}, -\frac{57}{443}, -\frac{204}{3101}, \frac{95}{443}, -\frac{9}{3101}) + \frac{60}{3101}\sqrt{462}e^2 \otimes e_7 + \frac{132}{3101}\sqrt{44913}e^3 \otimes e_9$	{1456789, 1679, 3478, 357}
941:32	$0, 0, 0, 0, 0, \frac{1}{1199}\sqrt{276218}e^{12}, \frac{1}{1199}\sqrt{659946}e^{13}, \frac{1}{1199}\sqrt{494546}e^{24} + \frac{1}{1199}\sqrt{272910}e^{35}, \frac{10}{1199}\sqrt{4962}e^{26}$	$(-\frac{33}{109}, \frac{433}{1199}, -\frac{31}{1199}, -\frac{96}{1199}, \frac{368}{1199}, \frac{70}{1199}, -\frac{394}{1199}, \frac{337}{1199}, \frac{503}{1199}) + \frac{2}{1199}\sqrt{411846}e^2 \otimes e_7$	{12349, 123589, 146789, 15679, 2456, 268, 34578, 37}
941:32	$0, 0, 0, 0, 0, \frac{5}{557}\sqrt{498}e^{12}, \frac{13}{557}\sqrt{498}e^{13}, \frac{4}{557}\sqrt{3237}e^{24} + \frac{5}{557}\sqrt{498}e^{35}, \frac{2}{557}\sqrt{1743}e^{26}$	$(\frac{154}{557}, -\frac{53}{557}, \frac{77}{557}, -\frac{42}{557}, -\frac{172}{557}, \frac{101}{557}, \frac{231}{557}, -\frac{95}{557}, \frac{48}{557}) + \frac{1}{557}\sqrt{104082}e^3 \otimes e_5 + \frac{2}{557}\sqrt{35607}e^1 \otimes e_8$	{236789, 25689, 34789, 4589}
941:32	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{5}{77}\sqrt{42}e^{13}, \frac{6}{77}\sqrt{35}e^{24} + \frac{2}{77}\sqrt{203}e^{35}, \frac{3}{77}\sqrt{70}e^{26}$	$(\frac{6}{77}, 0, -\frac{2}{11}, -\frac{1}{77}, \frac{13}{77}, \frac{6}{77}, -\frac{8}{77}, -\frac{1}{77}, \frac{6}{77}) + \frac{2}{77}\sqrt{301}e^4 \otimes e_7 + \frac{4}{77}\sqrt{42}e^5 \otimes e_9 + \frac{6}{77}\sqrt{14}e^1 \otimes e_8$	{1579, 468}
941:32	$0, 0, 0, 0, 0, \frac{56}{1553}\sqrt{82}e^{12}, \frac{1}{1553}\sqrt{8610}e^{13}, \frac{4}{1553}\sqrt{16933}e^{24} + \frac{1}{1553}\sqrt{255430}e^{35}, \frac{15}{1553}\sqrt{1722}e^{26}$	$(-\frac{281}{1553}, \frac{206}{1553}, \frac{418}{1553}, -\frac{81}{1553}, -\frac{293}{1553}, -\frac{75}{1553}, \frac{137}{1553}, \frac{125}{1553}, \frac{131}{1553}) + \frac{1}{1553}\sqrt{404670}e^2 \otimes e_4 + \frac{4}{1553}\sqrt{24969}e^3 \otimes e_9$	{129, 1469, 2356, 345}
941:32	$0, 0, 0, 0, 0, \frac{8}{3643}\sqrt{10295}e^{12}, \frac{8}{3643}\sqrt{18105}e^{13}, \frac{4}{3643}\sqrt{62693}e^{24} + \frac{4}{3643}\sqrt{213}e^{35}, \frac{4}{3643}\sqrt{29181}e^{26}$	$(\frac{312}{3643}, \frac{242}{3643}, -\frac{638}{3643}, -\frac{498}{3643}, \frac{382}{3643}, \frac{554}{3643}, -\frac{326}{3643}, -\frac{256}{3643}, \frac{796}{3643}) + \frac{4}{3643}\sqrt{108417}e^1 \otimes e_8 + \frac{4}{3643}\sqrt{122901}e^2 \otimes e_7$	{123459, 1679, 2568, 3478}
941:32	$0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{1307}e^{12}, \frac{1}{1169}\sqrt{744990}e^{13}, \frac{8}{1169}\sqrt{2614}e^{24} + \frac{2}{1169}\sqrt{206506}e^{35}, \frac{1}{1169}\sqrt{243102}e^{26}$	$(-\frac{68}{1169}, \frac{188}{1169}, -\frac{386}{1169}, \frac{279}{1169}, \frac{853}{1169}, \frac{120}{1169}, -\frac{454}{1169}, \frac{467}{1169}, \frac{44}{167}) + \frac{6}{1169}\sqrt{69271}e^5 \otimes e_7$	{12356, 1267, 1345, 147, 234789, 24589, 36789, 5689}
941:32	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{690}e^{12}, \frac{1}{93}\sqrt{8970}e^{13}, \frac{1}{93}\sqrt{2990}e^{24} + \frac{2}{93}\sqrt{690}e^{35}, \frac{1}{93}\sqrt{230}e^{26}$	$(-\frac{11}{93}, \frac{14}{93}, \frac{22}{31}, -\frac{49}{93}, \frac{1}{31}, \frac{55}{93}, \frac{17}{93}, \frac{17}{93}) + \frac{1}{93}\sqrt{17710}e^3 \otimes e_5$	{12346, 124567, 13, 157, 23479, 2459, 3679, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:32	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{105}e^{12}, \frac{1}{119}\sqrt{190}e^{13}, \frac{2}{119}\sqrt{85}e^{24} + \frac{2}{119}\sqrt{105}e^{35},$ $\frac{15}{119}\sqrt{2}e^{26}$	$(\frac{4}{119}, \frac{2}{119}, -\frac{2}{17}, -\frac{3}{119}, \frac{13}{119}, \frac{6}{119}, -\frac{10}{119}, -\frac{1}{119}, \frac{8}{119})$ $+ \frac{2}{119}\sqrt{115}e^2 \otimes e_4 + \frac{2}{119}\sqrt{115}e^5 \otimes e_9 + \frac{6}{119}\sqrt{5}e^1 \otimes e_8$	{129, 1469}
941:32	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{19}e^{12}, \frac{2}{81}\sqrt{190}e^{13}, \frac{4}{81}\sqrt{57}e^{24} + \frac{2}{81}\sqrt{114}e^{35},$ $\frac{19}{81}\sqrt{2}e^{26}$	$(-\frac{14}{81}, \frac{5}{81}, 0, \frac{5}{27}, \frac{20}{81}, -\frac{1}{9}, -\frac{14}{81}, \frac{20}{81}, -\frac{4}{81})$ $+ \frac{1}{81}\sqrt{1178}e^4 \otimes e_9 + \frac{2}{81}\sqrt{399}e^2 \otimes e_7$	{123589, 15679, 2456, 34578}
941:32	$0, 0, 0, 0, 0, \frac{4}{403}\sqrt{3370}e^{12}, \frac{9}{403}\sqrt{674}e^{13}, \frac{2}{403}\sqrt{13817}e^{24} + \frac{4}{403}\sqrt{3370}e^{35},$ $\frac{1}{403}\sqrt{2022}e^{26}$	$(\frac{242}{403}, -\frac{86}{403}, -\frac{88}{403}, -\frac{9}{403}, -\frac{7}{403}, \frac{12}{403}, \frac{154}{403}, -\frac{95}{403}, \frac{70}{403})$ $+ \frac{2}{403}\sqrt{55605}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
941:32	$0, 0, 0, 0, 0, \frac{1}{557}\sqrt{32930}e^{12}, \frac{1}{557}\sqrt{55002}e^{13},$ $\frac{6}{557}\sqrt{1335}e^{24} + \frac{1}{557}\sqrt{32930}e^{35}, \frac{2}{557}\sqrt{3649}e^{26}$	$(-\frac{100}{557}, \frac{21}{557}, \frac{99}{557}, \frac{88}{557}, \frac{10}{557}, -\frac{79}{557}, -\frac{1}{557}, \frac{109}{557}, -\frac{58}{557})$ $+ \frac{1}{557}\sqrt{35422}e^3 \otimes e_5 + \frac{2}{557}\sqrt{14863}e^4 \otimes e_7$	{123469, 1579, 245, 367}
941:32	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154}e^{12}, \frac{3}{259}\sqrt{714}e^{13}, \frac{3}{259}\sqrt{574}e^{24} + \frac{18}{259}\sqrt{14}e^{35},$ $\frac{6}{37}e^{26}$	$(\frac{9}{37}, -\frac{6}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $- \frac{15}{259}\sqrt{42}e^5 \otimes e_7 + \frac{3}{259}\sqrt{1414}e^1 \otimes e_8 + \frac{3}{259}\sqrt{826}e^4 \otimes e_9$	{13569, 1679, 3478, 458}
941:32	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154}e^{12}, \frac{3}{259}\sqrt{714}e^{13}, \frac{3}{259}\sqrt{574}e^{24} + \frac{18}{259}\sqrt{14}e^{35},$ $\frac{6}{37}e^{26}$	$(\frac{9}{37}, -\frac{6}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $+ \frac{15}{259}\sqrt{42}e^5 \otimes e_7 + \frac{3}{259}\sqrt{1414}e^1 \otimes e_8 + \frac{3}{259}\sqrt{826}e^4 \otimes e_9$	{13569, 1679, 3478, 458}
941:32	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{670}e^{12}, \frac{17}{1381}\sqrt{210}e^{13},$ $\frac{17}{1381}\sqrt{166}e^{24} + \frac{34}{1381}\sqrt{157}e^{35}, \frac{34}{1381}\sqrt{105}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, -\frac{204}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{136}{1381}\sqrt{15}e^1 \otimes e_8 + \frac{17}{1381}\sqrt{834}e^2 \otimes e_4 - \frac{34}{1381}\sqrt{177}e^5 \otimes e_7$	{12359, 1279, 134569, 14679}
941:32	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{670}e^{12}, \frac{17}{1381}\sqrt{210}e^{13},$ $\frac{17}{1381}\sqrt{166}e^{24} + \frac{34}{1381}\sqrt{157}e^{35}, \frac{34}{1381}\sqrt{105}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, -\frac{204}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{136}{1381}\sqrt{15}e^1 \otimes e_8 + \frac{17}{1381}\sqrt{834}e^2 \otimes e_4 + \frac{34}{1381}\sqrt{177}e^5 \otimes e_7$	{12359, 1279, 134569, 14679}
941:32	$0, 0, 0, 0, 0, \frac{140}{1307}\sqrt{13}e^{12}, \frac{3}{1307}\sqrt{2730}e^{13},$ $\frac{1}{1307}\sqrt{115570}e^{24} + \frac{1}{1307}\sqrt{443170}e^{35}, \frac{10}{1307}\sqrt{2730}e^{26}$	$(\frac{433}{1307}, -\frac{301}{1307}, -\frac{308}{1307}, \frac{279}{1307}, \frac{286}{1307}, \frac{132}{1307}, \frac{125}{1307}, -\frac{22}{1307}, -\frac{169}{1307})$ $+ \frac{2}{1307}\sqrt{121485}e^1 \otimes e_8 + \frac{3}{1307}\sqrt{62790}e^5 \otimes e_9$	{129, 1469, 245678, 578}
941:33	$0, 0, 0, 0, 0, \frac{3}{179}\sqrt{266}e^{12}, \frac{3}{179}\sqrt{518}e^{13}, \frac{42}{179}\sqrt{5}e^{45},$ $\frac{6}{179}\sqrt{14}e^{16} + \frac{3}{179}\sqrt{434}e^{34}$	$(-\frac{42}{179}, \frac{75}{179}, \frac{12}{179}, -\frac{21}{179}, \frac{33}{179}, \frac{33}{179}, -\frac{30}{179}, \frac{12}{179}, -\frac{9}{179})$ $+ \frac{3}{179}\sqrt{1190}e^5 \otimes e_7 + \frac{6}{179}\sqrt{266}e^2 \otimes e_8$	{123459, 1279, 13568, 14678}
941:33	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{130}e^{12}, \frac{1}{14}\sqrt{26}e^{13}, \frac{1}{14}\sqrt{130}e^{45},$ $\frac{1}{14}\sqrt{39}e^{16} + \frac{1}{14}\sqrt{26}e^{34}$	$(-\frac{3}{14}, \frac{9}{14}, \frac{9}{28}, -\frac{3}{28}, -\frac{5}{28}, \frac{3}{7}, \frac{3}{28}, -\frac{2}{7}, \frac{3}{14})$ $+ \frac{1}{14}\sqrt{299}e^2 \otimes e_8$	{1234579, 129, 135678, 1468, 234569, 2679, 358, 478}
941:33	$0, 0, 0, 0, 0, \frac{2}{1307}\sqrt{93423}e^{12}, \frac{4}{1307}\sqrt{24585}e^{13}, \frac{1}{1307}\sqrt{337634}e^{45},$ $\frac{3}{1307}\sqrt{22946}e^{16} + \frac{3}{1307}\sqrt{193402}e^{34}$	$(\frac{291}{1307}, \frac{108}{1307}, -\frac{189}{1307}, \frac{879}{1307}, -\frac{760}{1307}, \frac{399}{1307}, \frac{102}{1307}, \frac{119}{1307}, \frac{690}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^4 \otimes e_5$	{12347, 125, 135679, 1469, 2346, 2567, 359, 479}
941:33	$0, 0, 0, 0, 0, \frac{4}{3721}\sqrt{32930}e^{12}, \frac{2}{3721}\sqrt{50505}e^{13}, \frac{8}{3721}\sqrt{15910}e^{45},$ $\frac{10}{3721}\sqrt{9509}e^{16} + \frac{74}{3721}\sqrt{55}e^{34}$	$(\frac{139}{3721}, -\frac{311}{3721}, \frac{535}{3721}, -\frac{568}{3721}, \frac{337}{3721}, -\frac{172}{3721}, \frac{674}{3721}, -\frac{231}{3721}, -\frac{33}{3721})$ $+ \frac{4}{3721}\sqrt{92870}e^1 \otimes e_8 + \frac{8}{3721}\sqrt{15170}e^5 \otimes e_9$	{1279, 14567, 2346789, 3578}
941:33	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{2}e^{12}, \frac{4}{9}\sqrt{3}e^{13}, \frac{2}{9}\sqrt{10}e^{45}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6}e^{34}$	$(0, \frac{2}{9}, \frac{1}{2}, -\frac{5}{18}, -\frac{1}{9}, \frac{2}{9}, \frac{1}{2}, -\frac{7}{18}, \frac{2}{9})$ $+ \frac{2}{9}\sqrt{30}e^3 \otimes e_8$	{12369, 1246789, 1345, 1578, 2379, 2489, 34567, 568}
941:33	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{85}e^{12}, \frac{2}{567}\sqrt{21777}e^{13}, \frac{2}{567}\sqrt{12019}e^{45},$ $\frac{2}{567}\sqrt{6307}e^{16} + \frac{4}{189}\sqrt{119}e^{34}$	$(-\frac{5}{27}, \frac{253}{567}, \frac{40}{189}, -\frac{11}{81}, -\frac{41}{567}, \frac{148}{567}, \frac{5}{189}, -\frac{118}{567}, \frac{43}{567})$ $+ \frac{2}{189}\sqrt{3689}e^3 \otimes e_8 + \frac{4}{567}\sqrt{6783}e^2 \otimes e_7$	{12345, 146789, 2568, 379}
941:33	$0, 0, 0, 0, 0, \frac{16}{3951}\sqrt{91}e^{12}, \frac{8}{3951}\sqrt{1329}e^{13}, \frac{8}{3951}\sqrt{1699}e^{45},$ $\frac{8}{3951}\sqrt{746}e^{16} + \frac{8}{3951}\sqrt{1146}e^{34}$	$(-\frac{2}{439}, -\frac{28}{3951}, \frac{17}{439}, -\frac{217}{3951}, \frac{167}{3951}, -\frac{46}{3951}, \frac{15}{439}, -\frac{50}{3951}, -\frac{64}{3951})$ $+ \frac{8}{1317}\sqrt{170}e^5 \otimes e_7 + \frac{8}{3951}\sqrt{2085}e^1 \otimes e_8$	{123459, 1279, 2346789, 25689}
941:33	$0, 0, 0, 0, 0, \frac{4}{1233}\sqrt{2117}e^{12}, \frac{14}{411}\sqrt{73}e^{13}, \frac{4}{1233}\sqrt{6205}e^{45},$ $\frac{2}{1233}\sqrt{13651}e^{16} + \frac{2}{1233}\sqrt{15549}e^{34}$	$(-\frac{5}{137}, \frac{209}{1233}, \frac{1}{137}, \frac{110}{1233}, -\frac{247}{1233}, \frac{164}{1233}, -\frac{4}{137}, -\frac{1}{9}, \frac{119}{1233})$ $+ \frac{2}{1233}\sqrt{41610}e^3 \otimes e_8 + \frac{2}{1233}\sqrt{41610}e^4 \otimes e_7$	{1345, 1578, 2379, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:33	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{966e^{12}}, \frac{2}{937}\sqrt{13685e^{13}}, \frac{32}{937}\sqrt{161e^{45}},$ $\frac{2}{937}\sqrt{14329e^{16}} + \frac{26}{937}\sqrt{161e^{34}}$	$(-\frac{77}{937}, \frac{97}{937}, \frac{265}{937}, -\frac{322}{937}, \frac{265}{937}, \frac{20}{937}, \frac{188}{937}, -\frac{57}{937}, -\frac{57}{937})$ $-\frac{2}{937}\sqrt{67298e^5} \otimes e_9 + \frac{8}{937}\sqrt{4186e^3} \otimes e_8$	{1239, 124789, 13456, 15678, 23679, 24689, 3457, 58}
941:33	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{966e^{12}}, \frac{2}{937}\sqrt{13685e^{13}}, \frac{32}{937}\sqrt{161e^{45}},$ $\frac{2}{937}\sqrt{14329e^{16}} + \frac{26}{937}\sqrt{161e^{34}}$	$(-\frac{77}{937}, \frac{97}{937}, \frac{265}{937}, -\frac{322}{937}, \frac{265}{937}, \frac{20}{937}, \frac{188}{937}, -\frac{57}{937}, -\frac{57}{937})$ $+\frac{2}{937}\sqrt{67298e^5} \otimes e_9 + \frac{8}{937}\sqrt{4186e^3} \otimes e_8$	{1239, 124789, 13456, 15678, 23679, 24689, 3457, 58}
941:33	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{2e^{12}}, \frac{4}{9}\sqrt{3e^{13}}, \frac{2}{9}\sqrt{10e^{45}}, \frac{4}{9}e^{16} + \frac{2}{9}\sqrt{6e^{34}}$	$(0, \frac{2}{9}, -\frac{1}{3}, \frac{5}{9}, -\frac{1}{9}, \frac{2}{9}, -\frac{1}{3}, \frac{4}{9}, \frac{2}{9})$ $+\frac{2}{9}\sqrt{30e^4} \otimes e_7$	{1345, 1348, 1578, 17, 235789, 2379, 2459, 2489}
941:33	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{62997e^{12}}, \frac{6}{3769}\sqrt{59345e^{13}}, \frac{2}{3769}\sqrt{384373e^{45}},$ $\frac{6}{3769}\sqrt{42911e^{16}} + \frac{6}{3769}\sqrt{107734e^{34}}$	$(\frac{285}{3769}, \frac{447}{3769}, \frac{678}{3769}, \frac{339}{3769}, -\frac{1487}{3769}, \frac{732}{3769}, \frac{963}{3769}, -\frac{1148}{3769}, \frac{1017}{3769})$ $+\frac{22}{3769}\sqrt{14691e^3} \otimes e_8 + \frac{76}{3769}\sqrt{913e^4} \otimes e_5$	{1246789, 1578, 2489, 568}
941:33	$0, 0, 0, 0, 0, \frac{50}{1047}\sqrt{77e^{12}}, \frac{10}{1047}\sqrt{385e^{13}}, \frac{20}{3141}\sqrt{5005e^{45}},$ $\frac{70}{3141}\sqrt{385e^{16}} + \frac{10}{3141}\sqrt{8855e^{34}}$	$(-\frac{721}{3141}, \frac{121}{349}, \frac{20}{1047}, -\frac{413}{3141}, \frac{1397}{3141}, \frac{368}{3141}, -\frac{661}{3141}, \frac{328}{1047}, -\frac{353}{3141})$ $+\frac{10}{1047}\sqrt{6055e^5} \otimes e_9 + \frac{20}{3141}\sqrt{10255e^2} \otimes e_7$	{1239, 15678, 24689, 3457}
941:33	$0, 0, 0, 0, 0, \frac{40}{1951}\sqrt{462e^{12}}, \frac{440}{1951}\sqrt{3e^{13}}, \frac{40}{1951}\sqrt{715e^{45}},$ $\frac{120}{1951}\sqrt{66e^{16}} + \frac{240}{1951}\sqrt{11e^{34}}$	$(\frac{330}{1951}, -\frac{180}{1951}, \frac{315}{1951}, \frac{165}{1951}, -\frac{635}{1951}, \frac{150}{1951}, \frac{645}{1951}, -\frac{470}{1951}, \frac{480}{1951})$ $+\frac{120}{1951}\sqrt{163e^4} \otimes e_8 + \frac{40}{1951}\sqrt{202e^4} \otimes e_5$	{2346789, 25689, 3578, 48}
941:33	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574e^{13}}, \frac{3}{259}\sqrt{791e^{45}},$ $\frac{3}{259}\sqrt{154e^{16}} + \frac{3}{259}\sqrt{427e^{34}}$	$(-\frac{6}{37}, \frac{69}{259}, \frac{48}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{27}{259}, \frac{6}{259}, -\frac{15}{259}, -\frac{15}{259})$ $+\frac{3}{259}\sqrt{1337e^3} \otimes e_8 + \frac{3}{259}\sqrt{826e^2} \otimes e_7 + \frac{3}{37}\sqrt{23e^5} \otimes e_9$	{1239, 15678, 24689, 3457}
941:33	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574e^{13}}, \frac{3}{259}\sqrt{791e^{45}},$ $\frac{3}{259}\sqrt{154e^{16}} + \frac{3}{259}\sqrt{427e^{34}}$	$(-\frac{6}{37}, \frac{69}{259}, \frac{48}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{27}{259}, \frac{6}{259}, -\frac{15}{259}, -\frac{15}{259})$ $+\frac{3}{259}\sqrt{1337e^3} \otimes e_8 + \frac{3}{259}\sqrt{826e^2} \otimes e_7 - \frac{3}{37}\sqrt{23e^5} \otimes e_9$	{1239, 15678, 24689, 3457}
941:33	$0, 0, 0, 0, 0, \frac{36}{1165}\sqrt{15e^{12}}, \frac{6}{1165}\sqrt{1898e^{13}}, \frac{18}{233}\sqrt{6e^{45}},$ $\frac{6}{1165}\sqrt{22e^{16}} + \frac{6}{1165}\sqrt{118e^{34}}$	$(\frac{6}{1165}, -\frac{66}{1165}, \frac{96}{1165}, \frac{30}{233}, \frac{174}{1165}, -\frac{12}{233}, \frac{102}{1165}, \frac{24}{1165}, -\frac{54}{1165})$ $+\frac{12}{1165}\sqrt{383e^3} \otimes e_8 + \frac{12}{1165}\sqrt{442e^5} \otimes e_7 + \frac{6}{1165}\sqrt{1082e^1} \otimes e_2$	{1478, 2589}
941:33	$0, 0, 0, 0, 0, \frac{1}{1323}\sqrt{295526e^{12}}, \frac{1}{1323}\sqrt{1326534e^{13}}, \frac{2}{1323}\sqrt{301081e^{45}},$ $\frac{8}{1323}\sqrt{1111e^{16}} + \frac{101}{1323}\sqrt{66e^{34}}$	$(-\frac{26}{147}, \frac{331}{1323}, -\frac{32}{441}, -\frac{41}{1323}, \frac{781}{1323}, \frac{97}{1323}, -\frac{110}{441}, \frac{740}{1323}, -\frac{137}{1323})$ $+\frac{5}{441}\sqrt{11110e^5} \otimes e_7$	{1234569, 12679, 1358, 1478, 234789, 2589, 367, 456}
941:33	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178e^{12}}, \frac{2}{169}\sqrt{4717e^{13}}, \frac{4}{169}\sqrt{445e^{45}},$ $\frac{14}{169}\sqrt{89e^{16}} + \frac{2}{169}\sqrt{2759e^{34}}$	$(\frac{75}{169}, -\frac{103}{169}, \frac{7}{169}, \frac{40}{169}, \frac{9}{169}, -\frac{28}{169}, \frac{82}{169}, \frac{49}{169}, \frac{47}{169})$ $+\frac{4}{169}\sqrt{3115e^1} \otimes e_2$	{13459, 13489, 15789, 179, 23578, 237, 245, 248}
941:33	$0, 0, 0, 0, 0, \frac{6}{91}\sqrt{21e^{12}}, \frac{2}{91}\sqrt{427e^{13}}, \frac{6}{91}\sqrt{35e^{45}},$ $\frac{2}{13}\sqrt{3e^{16}} + \frac{6}{91}\sqrt{14e^{34}}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{3}{13}, \frac{3}{13}, 0, \frac{1}{13}, 0, -\frac{1}{13})$ $-\frac{2}{91}\sqrt{182e^2} \otimes e_9 + \frac{2}{91}\sqrt{357e^3} \otimes e_8 + \frac{4}{91}\sqrt{105e^5} \otimes e_7$	{1234569, 1478, 2589, 367}
941:33	$0, 0, 0, 0, 0, \frac{6}{91}\sqrt{21e^{12}}, \frac{2}{91}\sqrt{427e^{13}}, \frac{6}{91}\sqrt{35e^{45}},$ $\frac{2}{13}\sqrt{3e^{16}} + \frac{6}{91}\sqrt{14e^{34}}$	$(-\frac{1}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{3}{13}, \frac{3}{13}, 0, \frac{1}{13}, 0, -\frac{1}{13})$ $+\frac{2}{91}\sqrt{182e^2} \otimes e_9 + \frac{2}{91}\sqrt{357e^3} \otimes e_8 + \frac{4}{91}\sqrt{105e^5} \otimes e_7$	{1234569, 1478, 2589, 367}
941:33	$0, 0, 0, 0, 0, \frac{6}{353}\sqrt{646e^{12}}, \frac{102}{353}\sqrt{3e^{13}}, \frac{24}{353}\sqrt{102e^{45}},$ $\frac{6}{353}\sqrt{1921e^{16}} + \frac{101}{353}\sqrt{1105e^{34}}$	$(-\frac{37}{353}, \frac{25}{353}, \frac{49}{353}, -\frac{98}{353}, \frac{257}{353}, -\frac{12}{353}, \frac{12}{353}, \frac{159}{353}, -\frac{49}{353})$ $+\frac{6}{353}\sqrt{4930e^5} \otimes e_9$	{12379, 12489, 134567, 1568, 2369, 246789, 345, 578}
941:33	$0, 0, 0, 0, 0, \frac{2}{937}\sqrt{966e^{12}}, \frac{2}{937}\sqrt{13685e^{13}}, \frac{32}{937}\sqrt{161e^{45}},$ $\frac{2}{937}\sqrt{14329e^{16}} + \frac{26}{937}\sqrt{161e^{34}}$	$(-\frac{77}{937}, \frac{97}{937}, -\frac{151}{937}, \frac{94}{937}, \frac{265}{937}, \frac{20}{937}, -\frac{228}{937}, \frac{359}{937}, -\frac{57}{937})$ $+\frac{2}{937}\sqrt{67298e^5} \otimes e_9 + \frac{8}{937}\sqrt{4186e^4} \otimes e_7$	{13456, 15678, 23679, 24689}
941:33	$0, 0, 0, 0, 0, \frac{42}{229}\sqrt{2e^{12}}, \frac{14}{229}\sqrt{78e^{13}}, \frac{42}{229}\sqrt{5e^{45}},$ $\frac{14}{229}\sqrt{14e^{16}} + \frac{14}{229}e^{34}$	$(\frac{45}{229}, -\frac{53}{229}, -\frac{53}{229}, \frac{90}{229}, -\frac{21}{229}, -\frac{8}{229}, -\frac{8}{229}, \frac{69}{229}, \frac{37}{229})$ $+\frac{14}{229}\sqrt{110e^4} \otimes e_7 + \frac{14}{229}\sqrt{95e^1} \otimes e_2$	{13459, 13489, 15789, 179, 23578, 237, 245, 248}
941:33	$0, 0, 0, 0, 0, \frac{42}{229}\sqrt{2e^{12}}, \frac{14}{229}\sqrt{78e^{13}}, \frac{42}{229}\sqrt{5e^{45}},$ $\frac{14}{229}\sqrt{14e^{16}} + \frac{14}{229}e^{34}$	$(\frac{45}{229}, -\frac{53}{229}, -\frac{53}{229}, \frac{90}{229}, -\frac{21}{229}, -\frac{8}{229}, -\frac{8}{229}, \frac{69}{229}, \frac{37}{229})$ $-\frac{14}{229}\sqrt{110e^4} \otimes e_7 + \frac{14}{229}\sqrt{95e^1} \otimes e_2$	{13459, 13489, 15789, 179, 23578, 237, 245, 248}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:33	$0, 0, 0, 0, 0, \frac{1}{405}\sqrt{11110}e^{12}, \frac{2}{405}\sqrt{2805}e^{13}, \frac{2}{405}\sqrt{3355}e^{45},$ $\frac{44}{405}\sqrt{5}e^{16} + \frac{2}{27}\sqrt{11}e^{34}$	$(-\frac{1}{27}, \frac{14}{81}, \frac{2}{27}, \frac{2}{81}, -\frac{16}{81}, \frac{11}{81}, \frac{1}{27}, -\frac{14}{81}, \frac{8}{81})$ $+ \frac{1}{405}\sqrt{14190}e^2 \otimes e_7 + \frac{2}{135}\sqrt{715}e^1 \otimes e_8$	{123459, 14567, 25689, 3578}
941:33	$0, 0, 0, 0, 0, \frac{10}{241}\sqrt{6}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{30}{241}\sqrt{6}e^{45},$ $\frac{10}{241}\sqrt{35}e^{16} + \frac{10}{241}\sqrt{17}e^{34}$	$(\frac{15}{241}, -\frac{35}{241}, \frac{45}{241}, -\frac{50}{241}, \frac{45}{241}, -\frac{20}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{5}{241})$ $+ \frac{10}{241}\sqrt{62}e^1 \otimes e_2 - \frac{10}{241}\sqrt{78}e^5 \otimes e_9 + \frac{40}{241}\sqrt{5}e^3 \otimes e_8$	{139, 14789, 23457, 258}
941:33	$0, 0, 0, 0, 0, \frac{10}{241}\sqrt{6}e^{12}, \frac{10}{241}\sqrt{39}e^{13}, \frac{30}{241}\sqrt{6}e^{45},$ $\frac{10}{241}\sqrt{35}e^{16} + \frac{10}{241}\sqrt{17}e^{34}$	$(\frac{15}{241}, -\frac{35}{241}, \frac{45}{241}, -\frac{50}{241}, \frac{45}{241}, -\frac{20}{241}, \frac{60}{241}, -\frac{5}{241}, -\frac{5}{241})$ $+ \frac{10}{241}\sqrt{62}e^1 \otimes e_2 + \frac{10}{241}\sqrt{78}e^5 \otimes e_9 + \frac{40}{241}\sqrt{5}e^3 \otimes e_8$	{139, 14789, 23457, 258}
941:33	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1406}e^{12}, \frac{2}{51}\sqrt{399}e^{13}, \frac{2}{51}\sqrt{114}e^{45},$ $\frac{2}{51}\sqrt{19}e^{16} + \frac{4}{51}\sqrt{19}e^{34}$	$(-\frac{49}{153}, \frac{116}{153}, -\frac{2}{51}, \frac{8}{51}, \frac{16}{153}, \frac{67}{153}, -\frac{55}{153}, \frac{40}{153}, \frac{2}{17})$ $+ \frac{5}{51}\sqrt{190}e^2 \otimes e_7$	{123, 12358, 156789, 1679, 2456, 2468, 34579, 34789}
941:33	$0, 0, 0, 0, 0, \frac{4}{207}\sqrt{106}e^{12}, \frac{8}{207}\sqrt{57}e^{13}, \frac{4}{207}\sqrt{310}e^{45},$ $\frac{8}{207}\sqrt{35}e^{16} + \frac{4}{207}\sqrt{102}e^{34}$	$(\frac{2}{23}, -\frac{4}{207}, -\frac{1}{23}, \frac{41}{207}, -\frac{55}{207}, \frac{14}{207}, \frac{1}{23}, -\frac{14}{207}, \frac{32}{207})$ $+ \frac{4}{207}\sqrt{282}e^4 \otimes e_7 + \frac{8}{207}\sqrt{114}e^1 \otimes e_8$	{123459, 1279, 3578, 48}
941:33	$0, 0, 0, 0, 0, \frac{4}{711}\sqrt{6946}e^{12}, \frac{2}{711}\sqrt{24009}e^{13}, \frac{8}{711}\sqrt{2869}e^{45},$ $\frac{2}{711}\sqrt{37901}e^{16} + \frac{2}{711}\sqrt{30351}e^{34}$	$(\frac{13}{79}, -\frac{73}{711}, \frac{17}{79}, \frac{8}{711}, -\frac{193}{711}, \frac{44}{711}, \frac{30}{79}, -\frac{185}{711}, \frac{161}{711})$ $+ \frac{20}{711}\sqrt{906}e^1 \otimes e_8$	{123459, 1279, 136, 14567, 2346789, 25689, 3578, 48}
941:33	$0, 0, 0, 0, 0, \frac{1}{503}\sqrt{17270}e^{12}, \frac{1}{503}\sqrt{65155}e^{13}, \frac{5}{503}\sqrt{1727}e^{45},$ $\frac{1}{503}\sqrt{17113}e^{16} + \frac{1}{503}\sqrt{37366}e^{34}$	$(\frac{45}{503}, -\frac{112}{503}, -\frac{46}{503}, \frac{24}{503}, \frac{156}{503}, -\frac{67}{503}, -\frac{1}{503}, \frac{180}{503}, -\frac{22}{503})$ $+ \frac{1}{503}\sqrt{65783}e^1 \otimes e_2 + \frac{1}{503}\sqrt{78814}e^5 \otimes e_7$	{13459, 179, 237, 245}
941:33	$0, 0, 0, 0, 0, \frac{3}{247}\sqrt{10}e^{12}, \frac{1}{247}\sqrt{334}e^{13}, \frac{1}{247}\sqrt{426}e^{45},$ $\frac{1}{247}\sqrt{186}e^{16} + \frac{12}{247}\sqrt{2}e^{34}$	$(-\frac{1}{247}, -\frac{2}{247}, \frac{1}{26}, -\frac{27}{494}, \frac{21}{494}, -\frac{3}{247}, \frac{17}{494}, -\frac{3}{247}, -\frac{4}{247})$ $- \frac{1}{247}\sqrt{2}e^2 \otimes e_9 + \frac{3}{247}\sqrt{58}e^1 \otimes e_8 + \frac{8}{247}\sqrt{6}e^5 \otimes e_7$	{123459, 1279, 2346789, 25689}
941:33	$0, 0, 0, 0, 0, \frac{3}{247}\sqrt{10}e^{12}, \frac{1}{247}\sqrt{334}e^{13}, \frac{1}{247}\sqrt{426}e^{45},$ $\frac{1}{247}\sqrt{186}e^{16} + \frac{12}{247}\sqrt{2}e^{34}$	$(-\frac{1}{247}, -\frac{2}{247}, \frac{1}{26}, \frac{27}{494}, \frac{21}{494}, -\frac{3}{247}, \frac{17}{494}, -\frac{3}{247}, -\frac{4}{247})$ $+ \frac{1}{247}\sqrt{2}e^2 \otimes e_9 + \frac{3}{247}\sqrt{58}e^1 \otimes e_8 + \frac{8}{247}\sqrt{6}e^5 \otimes e_7$	{123459, 1279, 2346789, 25689}
941:33	$0, 0, 0, 0, 0, \frac{4}{73}e^{12}, \frac{2}{73}\sqrt{17}e^{13}, \frac{4}{73}\sqrt{5}e^{45},$ $\frac{2}{73}\sqrt{3}e^{16} + \frac{2}{73}\sqrt{13}e^{34}$	$(-\frac{5}{73}, \frac{9}{73}, \frac{1}{73}, -\frac{2}{73}, \frac{1}{73}, \frac{4}{73}, -\frac{4}{73}, -\frac{1}{73}, -\frac{1}{73})$ $+ \frac{2}{73}\sqrt{26}e^3 \otimes e_8 + \frac{2}{73}\sqrt{26}e^4 \otimes e_7 - \frac{8}{73}e^5 \otimes e_9$	{1345, 1578, 2379, 2489}
941:33	$0, 0, 0, 0, 0, \frac{4}{73}e^{12}, \frac{2}{73}\sqrt{17}e^{13}, \frac{4}{73}\sqrt{5}e^{45},$ $\frac{2}{73}\sqrt{3}e^{16} + \frac{2}{73}\sqrt{13}e^{34}$	$(-\frac{5}{73}, \frac{9}{73}, \frac{1}{73}, -\frac{2}{73}, \frac{1}{73}, \frac{4}{73}, -\frac{4}{73}, -\frac{1}{73}, -\frac{1}{73})$ $+ \frac{2}{73}\sqrt{26}e^3 \otimes e_8 + \frac{2}{73}\sqrt{26}e^4 \otimes e_7 + \frac{8}{73}e^5 \otimes e_9$	{1345, 1578, 2379, 2489}
941:33	$0, 0, 0, 0, 0, \frac{10}{3501}\sqrt{26273}e^{12}, \frac{10}{3501}\sqrt{16779}e^{13}, \frac{10}{3501}\sqrt{2867}e^{45},$ $\frac{20}{1167}\sqrt{235}e^{16} + \frac{20}{3501}\sqrt{6862}e^{34}$	$(-\frac{335}{3501}, \frac{1475}{3501}, -\frac{60}{389}, \frac{1345}{3501}, -\frac{335}{1167}, \frac{380}{1167}, -\frac{875}{3501}, \frac{340}{3501}, \frac{805}{3501})$ $+ \frac{10}{1167}\sqrt{7661}e^4 \otimes e_5 + \frac{10}{3501}\sqrt{76751}e^2 \otimes e_7$	{1234, 14679, 256, 3579}
941:33	$0, 0, 0, 0, 0, \frac{36}{1001}\sqrt{30}e^{12}, \frac{18}{1001}\sqrt{21}e^{13}, \frac{18}{1001}\sqrt{302}e^{45},$ $\frac{18}{1001}\sqrt{101}e^{16} + \frac{18}{1001}\sqrt{95}e^{34}$	$(-\frac{153}{1001}, \frac{261}{1001}, -\frac{27}{1001}, -\frac{18}{1001}, \frac{9}{77}, \frac{108}{1001}, -\frac{180}{1001}, \frac{9}{91}, -\frac{45}{1001})$ $+ \frac{18}{1001}\sqrt{290}e^4 \otimes e_7 + \frac{18}{1001}\sqrt{330}e^5 \otimes e_9 + \frac{36}{1001}\sqrt{73}e^2 \otimes e_8$	{15678, 23679}
941:33	$0, 0, 0, 0, 0, \frac{10}{113}\sqrt{2}e^{12}, \frac{10}{113}\sqrt{7}e^{13}, \frac{10}{113}\sqrt{22}e^{45},$ $\frac{10}{113}\sqrt{35}e^{16} + \frac{10}{113}e^{34}$	$(\frac{15}{113}, -\frac{35}{113}, \frac{5}{113}, -\frac{10}{113}, \frac{45}{113}, -\frac{20}{113}, \frac{20}{113}, \frac{35}{113}, -\frac{5}{113})$ $+ \frac{10}{113}\sqrt{46}e^1 \otimes e_2 + \frac{30}{113}\sqrt{6}e^5 \otimes e_9$	{13456, 15678, 23679, 24689}
941:33	$0, 0, 0, 0, 0, \frac{3}{1445}\sqrt{2990}e^{12}, \frac{18}{1445}\sqrt{55}e^{13}, \frac{3}{1445}\sqrt{4530}e^{45},$ $\frac{9}{1445}\sqrt{430}e^{16} + \frac{3}{289}\sqrt{74}e^{34}$	$(-\frac{12}{289}, \frac{21}{289}, \frac{24}{289}, -\frac{27}{289}, \frac{6}{289}, \frac{9}{289}, \frac{12}{289}, -\frac{21}{289}, -\frac{3}{289})$ $+ \frac{3}{1445}\sqrt{2710}e^2 \otimes e_7 + \frac{3}{1445}\sqrt{6910}e^1 \otimes e_8 + \frac{6}{289}\sqrt{35}e^5 \otimes e_9$	{14567, 3578}
941:33	$0, 0, 0, 0, 0, \frac{2}{373}\sqrt{265}e^{12}, \frac{10}{373}\sqrt{265}e^{13}, \frac{5}{373}\sqrt{106}e^{45},$ $\frac{7}{373}\sqrt{530}e^{16} + \frac{1}{373}\sqrt{15370}e^{34}$	$(\frac{129}{373}, -\frac{136}{373}, -\frac{35}{373}, \frac{157}{373}, -\frac{108}{373}, -\frac{7}{373}, \frac{94}{373}, \frac{49}{373}, \frac{122}{373})$ $+ \frac{2}{373}\sqrt{24115}e^1 \otimes e_2 + \frac{7}{373}\sqrt{1590}e^4 \otimes e_5$	{13589, 14789, 23478, 258}
941:33	$0, 0, 0, 0, 0, \frac{1}{898}\sqrt{438}e^{12}, \frac{1}{449}\sqrt{130}e^{13}, \frac{1}{898}\sqrt{1254}e^{45},$ $\frac{1}{449}\sqrt{203}e^{16} + \frac{1}{898}\sqrt{170}e^{34}$	$(\frac{8}{449}, -\frac{15}{449}, -\frac{4}{449}, \frac{5}{449}, \frac{2}{449}, -\frac{7}{449}, \frac{4}{449}, \frac{7}{449}, \frac{1}{449})$ $+ \frac{1}{449}\sqrt{238}e^5 \otimes e_9 + \frac{1}{449}\sqrt{379}e^1 \otimes e_8 + \frac{1}{898}\sqrt{806}e^4 \otimes e_7$	{1279, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:33	$0, 0, 0, 0, 0, \frac{3}{22}\sqrt{6}e^{12}, \frac{3}{22}\sqrt{6}e^{13}, \frac{3}{22}\sqrt{14}e^{45},$ $\frac{3}{22}e^{16} + \frac{3}{22}\sqrt{2}e^{34}$	$(-\frac{3}{22}, \frac{9}{22}, -\frac{3}{44}, \frac{9}{44}, -\frac{9}{44}, \frac{3}{11}, -\frac{9}{44}, 0, \frac{3}{22})$ $+ \frac{3}{11}\sqrt{5}e^4 \otimes e_7 + \frac{3}{22}\sqrt{19}e^2 \otimes e_8$	{12345, 127, 35789, 489}
941:33	$0, 0, 0, 0, 0, \frac{42}{229}\sqrt{2}e^{12}, \frac{14}{229}\sqrt{78}e^{13}, \frac{42}{229}\sqrt{5}e^{45},$ $\frac{14}{229}\sqrt{14}e^{16} + \frac{14}{229}e^{34}$	$(\frac{45}{229}, -\frac{53}{229}, \frac{57}{229}, -\frac{20}{229}, -\frac{21}{229}, -\frac{8}{229}, \frac{102}{229}, -\frac{41}{229}, \frac{37}{229})$ $+ \frac{14}{229}\sqrt{110}e^3 \otimes e_8 + \frac{14}{229}\sqrt{95}e^1 \otimes e_2$	{13459, 15789, 237, 248}
941:33	$0, 0, 0, 0, 0, \frac{14}{813}\sqrt{494}e^{12}, \frac{2}{813}\sqrt{13699}e^{13}, \frac{32}{813}\sqrt{133}e^{45},$ $\frac{2}{813}\sqrt{23009}e^{16} + \frac{2}{271}\sqrt{665}e^{34}$	$(-\frac{161}{813}, \frac{87}{271}, \frac{149}{813}, -\frac{70}{271}, \frac{205}{813}, \frac{100}{813}, -\frac{4}{271}, -\frac{5}{813}, -\frac{61}{813})$ $+ \frac{2}{813}\sqrt{49210}e^5 \otimes e_9 + \frac{8}{813}\sqrt{2926}e^2 \otimes e_8$	{12379, 1568, 2369, 578}
941:33	$0, 0, 0, 0, 0, \frac{14}{4329}\sqrt{3905}e^{12}, \frac{2}{4329}\sqrt{701085}e^{13}, \frac{2}{4329}\sqrt{582505}e^{45},$ $\frac{14}{4329}\sqrt{3355}e^{16} + \frac{70}{4329}\sqrt{66}e^{34}$	$(-\frac{63}{481}, \frac{827}{4329}, \frac{2}{13}, -\frac{973}{4329}, \frac{869}{4329}, \frac{20}{333}, \frac{11}{481}, -\frac{8}{333}, -\frac{307}{4329})$ $+ \frac{22}{4329}\sqrt{6195}e^3 \otimes e_8 + \frac{4}{1443}\sqrt{21945}e^5 \otimes e_7$	{1234569, 1478, 2589, 367}
941:33	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{858}e^{12}, \frac{1}{54}\sqrt{330}e^{13}, \frac{1}{18}\sqrt{66}e^{45},$ $\frac{1}{18}\sqrt{11}e^{16} + \frac{1}{54}\sqrt{462}e^{34}$	$(-\frac{1}{18}, \frac{7}{18}, \frac{1}{12}, \frac{7}{36}, -\frac{5}{12}, \frac{1}{3}, \frac{1}{36}, -\frac{2}{9}, \frac{5}{18})$ $+ \frac{11}{54}\sqrt{15}e^2 \otimes e_8 + \frac{1}{27}\sqrt{330}e^4 \otimes e_5$	{134678, 1568, 348, 578}
941:34	$0, 0, 0, 0, 0, \frac{8}{49}\sqrt{13}e^{12}, \frac{2}{49}\sqrt{13}e^{13}, \frac{4}{49}\sqrt{65}e^{45},$ $\frac{4}{49}\sqrt{65}e^{26} + \frac{2}{49}\sqrt{143}e^{34}$	$(-\frac{9}{49}, \frac{13}{49}, \frac{18}{49}, -\frac{1}{49}, -\frac{12}{49}, \frac{4}{49}, \frac{9}{49}, -\frac{13}{49}, \frac{17}{49})$ $+ \frac{2}{49}\sqrt{533}e^2 \otimes e_8$	{123459, 1279, 134689, 156789, 2367, 2456, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{8}{1107}\sqrt{110}e^{12}, \frac{8}{1107}\sqrt{1705}e^{13}, \frac{8}{369}\sqrt{385}e^{45},$ $\frac{8}{1107}\sqrt{1661}e^{26} + \frac{8}{123}\sqrt{22}e^{34}$	$(-\frac{20}{1107}, -\frac{16}{1107}, \frac{100}{369}, -\frac{352}{1107}, \frac{100}{369}, -\frac{4}{123}, \frac{280}{1107}, -\frac{52}{1107}, -\frac{52}{1107})$ $+ \frac{16}{1107}\sqrt{1353}e^3 \otimes e_8 - \frac{56}{1107}\sqrt{110}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{8}{1107}\sqrt{110}e^{12}, \frac{8}{1107}\sqrt{1705}e^{13}, \frac{8}{369}\sqrt{385}e^{45},$ $\frac{8}{1107}\sqrt{1661}e^{26} + \frac{8}{123}\sqrt{22}e^{34}$	$(-\frac{20}{1107}, -\frac{16}{1107}, \frac{100}{369}, -\frac{352}{1107}, \frac{100}{369}, -\frac{4}{123}, \frac{280}{1107}, -\frac{52}{1107}, -\frac{52}{1107})$ $+ \frac{16}{1107}\sqrt{1353}e^3 \otimes e_8 + \frac{56}{1107}\sqrt{110}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{8}{3771}\sqrt{18970}e^{12}, \frac{8}{3771}\sqrt{23905}e^{13}, \frac{280}{3771}\sqrt{21}e^{45},$ $\frac{8}{3771}\sqrt{965}e^{26} + \frac{8}{3771}\sqrt{9870}e^{34}$	$(-\frac{764}{3771}, \frac{416}{3771}, \frac{20}{1257}, \frac{8}{3771}, \frac{132}{419}, -\frac{116}{1257}, \frac{704}{3771}, \frac{1196}{3771}, \frac{68}{3771})$ $+ \frac{112}{3771}\sqrt{330}e^2 \otimes e_7 + \frac{8}{3771}\sqrt{51170}e^5 \otimes e_9$	{123489, 1679, 2456, 3578}
941:34	$0, 0, 0, 0, 0, \frac{2}{257}\sqrt{146}e^{12}, \frac{4}{257}\sqrt{15}e^{13}, \frac{10}{257}\sqrt{14}e^{45},$ $\frac{4}{257}\sqrt{70}e^{26} + \frac{2}{257}\sqrt{22}e^{34}$	$(-\frac{28}{257}, \frac{18}{257}, \frac{14}{257}, -\frac{6}{257}, \frac{16}{257}, -\frac{10}{257}, -\frac{14}{257}, \frac{10}{257}, \frac{8}{257})$ $+ \frac{16}{257}\sqrt{5}e^5 \otimes e_9 - \frac{2}{257}\sqrt{210}e^4 \otimes e_7 + \frac{4}{257}\sqrt{101}e^2 \otimes e_8$	{1279, 134689, 2456, 3578}
941:34	$0, 0, 0, 0, 0, \frac{2}{257}\sqrt{146}e^{12}, \frac{4}{257}\sqrt{15}e^{13}, \frac{10}{257}\sqrt{14}e^{45},$ $\frac{4}{257}\sqrt{70}e^{26} + \frac{2}{257}\sqrt{22}e^{34}$	$(-\frac{28}{257}, \frac{18}{257}, \frac{14}{257}, -\frac{6}{257}, \frac{16}{257}, -\frac{10}{257}, -\frac{14}{257}, \frac{10}{257}, \frac{8}{257})$ $+ \frac{16}{257}\sqrt{5}e^5 \otimes e_9 + \frac{2}{257}\sqrt{210}e^4 \otimes e_7 + \frac{4}{257}\sqrt{101}e^2 \otimes e_8$	{1279, 134689, 2456, 3578}
941:34	$0, 0, 0, 0, 0, \frac{8}{293}\sqrt{62}e^{12}, \frac{8}{293}\sqrt{3}e^{13}, \frac{8}{293}\sqrt{105}e^{45},$ $\frac{8}{293}\sqrt{105}e^{26} + \frac{8}{293}\sqrt{22}e^{34}$	$(-\frac{28}{293}, \frac{16}{293}, \frac{56}{293}, -\frac{52}{293}, \frac{36}{293}, -\frac{12}{293}, \frac{28}{293}, -\frac{16}{293}, \frac{4}{293})$ $+ \frac{16}{293}\sqrt{38}e^2 \otimes e_8 + \frac{8}{293}\sqrt{110}e^5 \otimes e_9$	{129, 1346789, 24567, 358}
941:34	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{994}e^{12}, \frac{20}{199}\sqrt{7}e^{13}, \frac{2}{199}\sqrt{2030}e^{45},$ $\frac{20}{199}\sqrt{14}e^{26} + \frac{2}{199}\sqrt{518}e^{34}$	$(-\frac{36}{199}, \frac{46}{199}, \frac{18}{199}, \frac{38}{199}, -\frac{48}{199}, \frac{10}{199}, -\frac{18}{199}, -\frac{10}{199}, \frac{56}{199})$ $+ \frac{4}{199}\sqrt{749}e^2 \otimes e_8 - \frac{6}{199}\sqrt{210}e^4 \otimes e_7$	{123459, 1279, 134689, 156789, 2367, 2456, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{994}e^{12}, \frac{20}{199}\sqrt{7}e^{13}, \frac{2}{199}\sqrt{2030}e^{45},$ $\frac{20}{199}\sqrt{14}e^{26} + \frac{2}{199}\sqrt{518}e^{34}$	$(-\frac{36}{199}, \frac{46}{199}, \frac{18}{199}, \frac{38}{199}, -\frac{48}{199}, \frac{10}{199}, -\frac{18}{199}, -\frac{10}{199}, \frac{56}{199})$ $+ \frac{4}{199}\sqrt{749}e^2 \otimes e_8 + \frac{6}{199}\sqrt{210}e^4 \otimes e_7$	{123459, 1279, 134689, 156789, 2367, 2456, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{9}{68}\sqrt{2}e^{12}, \frac{9}{136}\sqrt{30}e^{13}, \frac{21}{136}\sqrt{6}e^{45},$ $\frac{3}{136}\sqrt{51}e^{26} + \frac{3}{136}\sqrt{66}e^{34}$	$(\frac{3}{17}, -\frac{3}{68}, -\frac{39}{272}, \frac{63}{272}, -\frac{69}{272}, \frac{9}{68}, \frac{9}{272}, -\frac{3}{136}, \frac{3}{34})$ $- \frac{3}{136}\sqrt{330}e^4 \otimes e_7 + \frac{3}{136}\sqrt{399}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 235678, 2468, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{9}{68}\sqrt{2}e^{12}, \frac{9}{136}\sqrt{30}e^{13}, \frac{21}{136}\sqrt{6}e^{45},$ $\frac{3}{136}\sqrt{51}e^{26} + \frac{3}{136}\sqrt{66}e^{34}$	$(\frac{3}{17}, -\frac{3}{68}, -\frac{39}{272}, \frac{63}{272}, -\frac{69}{272}, \frac{9}{68}, \frac{9}{272}, -\frac{3}{136}, \frac{3}{34})$ $+ \frac{3}{136}\sqrt{330}e^4 \otimes e_7 + \frac{3}{136}\sqrt{399}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 235678, 2468, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{16}{123}\sqrt{7}e^{12}, \frac{4}{123}\sqrt{14}e^{13}, \frac{28}{123}\sqrt{10}e^{45},$ $\frac{16}{123}\sqrt{10}e^{26} + \frac{8}{41}\sqrt{7}e^{34}$	$(\frac{16}{123}, -\frac{20}{123}, \frac{2}{41}, -\frac{10}{41}, \frac{88}{123}, -\frac{4}{123}, \frac{22}{123}, \frac{58}{123}, -\frac{8}{41})$ $+ \frac{40}{123}\sqrt{14}e^5 \otimes e_9$	{12379, 12489, 13679, 14689, 23456, 25678, 345, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:34	$0, 0, 0, 0, 0, \frac{9}{368}\sqrt{502}e^{12}, \frac{5}{368}\sqrt{2510}e^{13}, \frac{1}{368}\sqrt{25351}e^{45},$ $\frac{1}{92}\sqrt{4769}e^{26} + \frac{1}{92}\sqrt{2761}e^{34}$	$(-\frac{285}{736}, \frac{135}{368}, \frac{53}{736}, \frac{101}{368}, \frac{13}{368}, -\frac{15}{736}, -\frac{29}{92}, \frac{57}{184}, \frac{255}{736})$ $+ \frac{1}{368}\sqrt{152859}e^2 \otimes e_7$	{123459, 123489, 156789, 1679, 2456, 2468, 3578, 37}
941:34	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{42}e^{12}, \frac{4}{51}\sqrt{3}e^{13}, \frac{4}{17}\sqrt{5}e^{45},$ $\frac{17}{17}\sqrt{5}e^{26} + \frac{8}{51}\sqrt{3}e^{34}$	$(-\frac{2}{17}, \frac{4}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{6}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{6}{17})$ $+ \frac{4}{51}\sqrt{102}e^2 \otimes e_8 + \frac{4}{51}\sqrt{30}e^4 \otimes e_5$	{1346789, 15689, 358, 478}
941:34	$0, 0, 0, 0, 0, \frac{72}{4547}\sqrt{158}e^{12}, \frac{24}{4547}\sqrt{5505}e^{13}, \frac{72}{4547}\sqrt{559}e^{45},$ $\frac{24}{4547}\sqrt{897}e^{26} + \frac{528}{4547}\sqrt{3}e^{34}$	$(-\frac{948}{4547}, \frac{588}{4547}, \frac{1008}{4547}, \frac{780}{4547}, \frac{924}{4547}, -\frac{360}{4547}, \frac{60}{4547}, \frac{144}{4547}, \frac{228}{4547})$ $+ \frac{24}{4547}\sqrt{5838}e^3 \otimes e_8 + \frac{48}{4547}\sqrt{1641}e^5 \otimes e_7$	{124678, 1478, 2589, 5689}
941:34	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{4}{369}\sqrt{105}e^{45},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{4}{123}\sqrt{6}e^{34}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $+ \frac{4}{369}\sqrt{123}e^3 \otimes e_8 + \frac{4}{369}\sqrt{123}e^4 \otimes e_7 + \frac{4}{369}\sqrt{95}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{4}{369}\sqrt{105}e^{45},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{4}{123}\sqrt{6}e^{34}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $+ \frac{4}{369}\sqrt{123}e^3 \otimes e_8 + \frac{4}{369}\sqrt{123}e^4 \otimes e_7 - \frac{4}{369}\sqrt{95}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{4}{369}\sqrt{105}e^{45},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{4}{123}\sqrt{6}e^{34}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $+ \frac{4}{369}\sqrt{123}e^3 \otimes e_8 - \frac{4}{369}\sqrt{123}e^4 \otimes e_7 + \frac{4}{369}\sqrt{95}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{4}{369}\sqrt{17}e^{12}, \frac{4}{369}\sqrt{79}e^{13}, \frac{4}{369}\sqrt{105}e^{45},$ $\frac{4}{369}\sqrt{23}e^{26} + \frac{4}{123}\sqrt{6}e^{34}$	$(-\frac{34}{369}, \frac{22}{369}, \frac{2}{41}, -\frac{8}{369}, \frac{2}{41}, -\frac{4}{123}, -\frac{16}{369}, \frac{10}{369}, \frac{10}{369})$ $+ \frac{4}{369}\sqrt{123}e^3 \otimes e_8 - \frac{4}{369}\sqrt{123}e^4 \otimes e_7 - \frac{4}{369}\sqrt{95}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{8}{129}\sqrt{7}e^{12}, \frac{4}{43}\sqrt{5}e^{13}, \frac{4}{129}\sqrt{35}e^{45},$ $\frac{4}{129}\sqrt{35}e^{26} + \frac{4}{129}\sqrt{34}e^{34}$	$(-\frac{2}{129}, \frac{8}{129}, \frac{2}{129}, \frac{4}{43}, -\frac{22}{129}, \frac{2}{43}, 0, -\frac{10}{129}, \frac{14}{129})$ $+ \frac{4}{129}\sqrt{58}e^1 \otimes e_8 + \frac{4}{129}\sqrt{58}e^2 \otimes e_7$	{123459, 1679, 2468, 3578}
941:34	$0, 0, 0, 0, 0, \frac{108}{1163}e^{12}, \frac{12}{1163}\sqrt{267}e^{13}, \frac{168}{1163}\sqrt{2}e^{45},$ $\frac{12}{1163}\sqrt{137}e^{26} + \frac{12}{1163}\sqrt{13}e^{34}$	$(\frac{162}{1163}, \frac{114}{1163}, -\frac{150}{1163}, \frac{84}{1163}, \frac{6}{1163}, \frac{48}{1163}, \frac{12}{1163}, \frac{90}{1163}, -\frac{66}{1163})$ $- \frac{12}{1163}\sqrt{359}e^4 \otimes e_7 + \frac{12}{1163}\sqrt{406}e^1 \otimes e_8 + \frac{84}{1163}\sqrt{6}e^5 \otimes e_9$	{1279, 1679, 235678, 3578}
941:34	$0, 0, 0, 0, 0, \frac{108}{1163}e^{12}, \frac{12}{1163}\sqrt{267}e^{13}, \frac{168}{1163}\sqrt{2}e^{45},$ $\frac{12}{1163}\sqrt{137}e^{26} + \frac{12}{1163}\sqrt{13}e^{34}$	$(\frac{162}{1163}, -\frac{114}{1163}, -\frac{150}{1163}, \frac{84}{1163}, \frac{6}{1163}, \frac{48}{1163}, \frac{12}{1163}, \frac{90}{1163}, -\frac{66}{1163})$ $+ \frac{12}{1163}\sqrt{359}e^4 \otimes e_7 + \frac{12}{1163}\sqrt{406}e^1 \otimes e_8 + \frac{84}{1163}\sqrt{6}e^5 \otimes e_9$	{1279, 1679, 235678, 3578}
941:34	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2490}e^{12}, \frac{2}{181}\sqrt{4565}e^{13}, \frac{1}{181}\sqrt{17430}e^{45},$ $\frac{2}{181}\sqrt{249}e^{26} + \frac{1}{181}\sqrt{7802}e^{34}$	$(-\frac{15}{181}, \frac{37}{181}, -\frac{46}{181}, \frac{105}{181}, -\frac{20}{181}, \frac{22}{181}, -\frac{61}{181}, \frac{85}{181}, \frac{59}{181})$ $- \frac{3}{181}\sqrt{5478}e^4 \otimes e_7$	{123456, 123468, 125678, 1267, 1345, 1348, 1578, 17, 235789, 2379, 2459, 2489, 356789, 3679, 4569, 4689}
941:34	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{2490}e^{12}, \frac{2}{181}\sqrt{4565}e^{13}, \frac{1}{181}\sqrt{17430}e^{45},$ $\frac{2}{181}\sqrt{249}e^{26} + \frac{1}{181}\sqrt{7802}e^{34}$	$(-\frac{15}{181}, \frac{37}{181}, -\frac{46}{181}, \frac{105}{181}, -\frac{20}{181}, \frac{22}{181}, -\frac{61}{181}, \frac{85}{181}, \frac{59}{181})$ $+ \frac{3}{181}\sqrt{5478}e^4 \otimes e_7$	{123456, 123468, 125678, 1267, 1345, 1348, 1578, 17, 235789, 2379, 2459, 2489, 356789, 3679, 4569, 4689}
941:34	$0, 0, 0, 0, 0, \frac{10}{619}\sqrt{777}e^{12}, \frac{10}{619}\sqrt{861}e^{13}, \frac{40}{619}\sqrt{70}e^{45},$ $\frac{60}{619}\sqrt{7}e^{26} + \frac{20}{619}\sqrt{42}e^{34}$	$(\frac{222}{619}, -\frac{63}{619}, -\frac{15}{619}, \frac{111}{619}, -\frac{239}{619}, \frac{159}{619}, \frac{207}{619}, -\frac{128}{619}, \frac{96}{619})$ $+ \frac{10}{619}\sqrt{114}e^4 \otimes e_5 + \frac{20}{619}\sqrt{65}e^1 \otimes e_8$	{235678, 2468, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{8}{3559}\sqrt{7705}e^{12}, \frac{4}{3559}\sqrt{51523}e^{13}, \frac{4}{3559}\sqrt{101505}e^{45},$ $\frac{4}{3559}\sqrt{70015}e^{26} + \frac{4}{3559}\sqrt{66062}e^{34}$	$(-\frac{858}{3559}, \frac{644}{3559}, \frac{588}{3559}, -\frac{158}{3559}, \frac{266}{3559}, -\frac{214}{3559}, -\frac{270}{3559}, \frac{108}{3559}, \frac{430}{3559})$ $+ \frac{4}{3559}\sqrt{119126}e^2 \otimes e_8 + \frac{4}{3559}\sqrt{94470}e^5 \otimes e_7$	{123459, 1279, 2367, 2456}
941:34	$0, 0, 0, 0, 0, \frac{48}{3515}\sqrt{334}e^{12}, \frac{48}{3515}\sqrt{1159}e^{13}, \frac{144}{3515}\sqrt{77}e^{45},$ $\frac{144}{3515}\sqrt{91}e^{26} + \frac{96}{3515}\sqrt{74}e^{34}$	$(-\frac{56}{185}, \frac{1008}{3515}, \frac{184}{703}, \frac{32}{3515}, -\frac{264}{3515}, -\frac{56}{3515}, -\frac{144}{3515}, -\frac{232}{3515}, \frac{952}{3515})$ $+ \frac{48}{3515}\sqrt{1354}e^3 \otimes e_8 + \frac{96}{3515}\sqrt{433}e^2 \otimes e_7$	{123459, 156789, 2468, 37}
941:34	$0, 0, 0, 0, 0, \frac{15}{592}\sqrt{6}e^{12}, \frac{5}{592}\sqrt{494}e^{13}, \frac{5}{37}\sqrt{2}e^{45},$ $\frac{5}{592}\sqrt{151}e^{26} + \frac{5}{148}\sqrt{22}e^{34}$	$(\frac{27}{296}, -\frac{13}{148}, -\frac{41}{1184}, -\frac{59}{1184}, \frac{117}{1184}, \frac{1}{296}, \frac{67}{1184}, \frac{29}{592}, -\frac{25}{296})$ $+ \frac{5}{148}\sqrt{33}e^5 \otimes e_7 + \frac{5}{592}\sqrt{555}e^1 \otimes e_8$	{123459, 1279, 134569, 1679}
941:34	$0, 0, 0, 0, 0, \frac{2}{221}\sqrt{2877}e^{12}, \frac{6}{221}\sqrt{411}e^{13}, \frac{4}{221}\sqrt{685}e^{45},$ $\frac{4}{221}\sqrt{685}e^{26} + \frac{8}{221}\sqrt{822}e^{34}$	$(\frac{42}{221}, \frac{35}{221}, -\frac{33}{221}, \frac{145}{221}, -\frac{129}{221}, \frac{77}{221}, \frac{9}{221}, \frac{16}{221}, \frac{112}{221})$ $+ \frac{2}{221}\sqrt{25345}e^4 \otimes e_5$	{12347, 125, 13467, 156, 23569, 24679, 359, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:34	$0, 0, 0, 0, 0, \frac{60}{703} \sqrt{22}e^{12}, \frac{20}{703} \sqrt{902}e^{13}, \frac{40}{703} \sqrt{209}e^{45},$ $\frac{10}{703} \sqrt{1177}e^{26} + \frac{110}{703} \sqrt{19}e^{34}$	$(-\frac{144}{703}, \frac{77}{703}, -\frac{7}{703}, \frac{17}{703}, \frac{21}{37}, -\frac{67}{703}, -\frac{151}{703}, \frac{416}{703}, \frac{10}{703})$ $+ \frac{10}{703} \sqrt{6501}e^5 \otimes e_7$	{123568, 124678, 1358, 1478, 234789, 2589, 346789, 5689}
941:34	$0, 0, 0, 0, 0, \frac{8}{3859} \sqrt{366}e^{12}, \frac{24}{3859} \sqrt{2867}e^{13}, \frac{8}{3859} \sqrt{25681}e^{45},$ $\frac{120}{3859} \sqrt{61}e^{26} + \frac{48}{3859} \sqrt{1830}e^{34}$	$(-\frac{12}{3859}, \frac{636}{3859}, \frac{840}{3859}, \frac{420}{3859}, -\frac{1532}{3859}, \frac{624}{3859}, \frac{828}{3859}, -\frac{1112}{3859}, \frac{1260}{3859})$ $+ \frac{16}{3859} \sqrt{23119}e^4 \otimes e_5 + \frac{8}{3859} \sqrt{118218}e^3 \otimes e_8$	{1246789, 14789, 258, 568}
941:34	$0, 0, 0, 0, 0, \frac{8}{3771} \sqrt{18970}e^{12}, \frac{8}{3771} \sqrt{23905}e^{13}, \frac{56}{3771} \sqrt{965}e^{45},$ $\frac{280}{3771} \sqrt{21}e^{26} + \frac{8}{3771} \sqrt{9870}e^{34}$	$(\frac{1084}{3771}, -\frac{272}{1257}, \frac{20}{1257}, -\frac{608}{3771}, \frac{572}{3771}, \frac{268}{3771}, \frac{1144}{3771}, -\frac{4}{419}, -\frac{548}{3771})$ $+ \frac{112}{3771} \sqrt{330}e^1 \otimes e_8 + \frac{8}{3771} \sqrt{51170}e^5 \otimes e_9$	{1279, 1679, 235678, 3578}
941:34	$0, 0, 0, 0, 0, \frac{8}{1107} \sqrt{110}e^{12}, \frac{8}{1107} \sqrt{1705}e^{13}, \frac{8}{369} \sqrt{385}e^{45},$ $\frac{8}{1107} \sqrt{1661}e^{26} + \frac{8}{123} \sqrt{22}e^{34}$	$(-\frac{20}{1107}, -\frac{16}{1107}, -\frac{64}{369}, \frac{140}{1107}, \frac{100}{369}, -\frac{4}{123}, -\frac{212}{1107}, \frac{440}{1107}, -\frac{52}{1107})$ $+ \frac{16}{1107} \sqrt{1353}e^4 \otimes e_7 + \frac{56}{1107} \sqrt{110}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{8}{1107} \sqrt{110}e^{12}, \frac{8}{1107} \sqrt{1705}e^{13}, \frac{8}{369} \sqrt{385}e^{45},$ $\frac{8}{1107} \sqrt{1661}e^{26} + \frac{8}{123} \sqrt{22}e^{34}$	$(-\frac{20}{1107}, -\frac{16}{1107}, -\frac{64}{369}, \frac{140}{1107}, \frac{100}{369}, -\frac{4}{123}, -\frac{212}{1107}, \frac{440}{1107}, -\frac{52}{1107})$ $- \frac{16}{1107} \sqrt{1353}e^4 \otimes e_7 + \frac{56}{1107} \sqrt{110}e^5 \otimes e_9$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{9}{368} \sqrt{502}e^{12}, \frac{5}{368} \sqrt{2510}e^{13}, \frac{1}{92} \sqrt{4769}e^{45},$ $\frac{280}{368} \sqrt{25351}e^{26} + \frac{1}{92} \sqrt{2761}e^{34}$	$(\frac{81}{184}, -\frac{17}{92}, \frac{53}{736}, \frac{1}{736}, \frac{177}{184}, \frac{47}{736}, \frac{377}{184}, -\frac{89}{368}, \frac{13}{184})$ $+ \frac{1}{368} \sqrt{152859}e^1 \otimes e_8$	{123459, 1279, 134569, 1679, 235678, 2468, 3578, 48}
941:34	$0, 0, 0, 0, 0, \frac{1}{181} \sqrt{2490}e^{12}, \frac{2}{181} \sqrt{4565}e^{13}, \frac{1}{181} \sqrt{17430}e^{45},$ $\frac{2}{181} \sqrt{249}e^{26} + \frac{1}{181} \sqrt{7802}e^{34}$	$(-\frac{15}{181}, \frac{37}{181}, \frac{205}{362}, -\frac{87}{362}, -\frac{20}{181}, \frac{22}{181}, \frac{175}{362}, -\frac{127}{362}, \frac{59}{181})$ $+ \frac{3}{181} \sqrt{5478}e^3 \otimes e_8$	{123456, 125678, 1345, 1578, 2379, 2489, 3679, 4689}
941:34	$0, 0, 0, 0, 0, \frac{10}{619} \sqrt{777}e^{12}, \frac{10}{619} \sqrt{861}e^{13}, \frac{60}{619} \sqrt{7}e^{45},$ $\frac{40}{619} \sqrt{70}e^{26} + \frac{20}{619} \sqrt{42}e^{34}$	$(-\frac{150}{619}, \frac{185}{619}, -\frac{15}{619}, \frac{235}{619}, -\frac{115}{619}, \frac{35}{619}, -\frac{165}{619}, \frac{120}{619}, \frac{220}{619})$ $+ \frac{10}{619} \sqrt{1141}e^4 \otimes e_5 + \frac{20}{619} \sqrt{651}e^2 \otimes e_7$	{123489, 156789, 2468, 3578}
941:35	$0, 0, 0, 0, 0, \frac{1}{38} \sqrt{35}e^{12}, \frac{1}{38} \sqrt{770}e^{34}, \frac{5}{38} \sqrt{14}e^{13} + \frac{1}{38} \sqrt{35}e^{25},$ $\frac{1}{38} \sqrt{770}e^{16}$	$(-\frac{1}{4}, \frac{3}{19}, \frac{11}{19}, -\frac{2}{19}, \frac{13}{76}, -\frac{7}{76}, \frac{9}{19}, \frac{25}{76}, -\frac{13}{38})$ $+ \frac{1}{38} \sqrt{2170}e^3 \otimes e_9$	{124789, 1289, 1346, 1367, 245679, 2569, 3458, 3578}
941:35	$0, 0, 0, 0, 0, \frac{96}{1513} \sqrt{10}e^{12}, \frac{8}{1513} \sqrt{2305}e^{34},$ $\frac{40}{1513} \sqrt{26}e^{13} + \frac{8}{1513} \sqrt{435}e^{25}, \frac{8}{1513} \sqrt{2305}e^{16}$	$(\frac{28}{1513}, -\frac{44}{1513}, \frac{172}{1513}, -\frac{304}{1513}, \frac{244}{1513}, -\frac{16}{1513}, -\frac{132}{1513}, \frac{200}{1513}, \frac{12}{1513})$ $+ \frac{200}{1513} \sqrt{6}e^1 \otimes e_7 + \frac{8}{1513} \sqrt{3030}e^3 \otimes e_9$	{12589, 13456, 24679, 378}
941:35	$0, 0, 0, 0, 0, \frac{18}{175} \sqrt{5}e^{12}, \frac{4}{175} \sqrt{255}e^{34}, \frac{2}{175} \sqrt{435}e^{13} + \frac{2}{175} \sqrt{885}e^{25},$ $\frac{8}{175} \sqrt{15}e^{16}$	$(\frac{1}{35}, \frac{1}{7}, -\frac{4}{35}, \frac{3}{35}, -\frac{8}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{3}{35}, \frac{1}{5})$ $+ \frac{16}{175} \sqrt{15}e^4 \otimes e_8 + \frac{4}{175} \sqrt{345}e^2 \otimes e_7$	{135678, 1467, 234569, 2689}
941:35	$0, 0, 0, 0, 0, \frac{8}{1005} \sqrt{1631}e^{12}, \frac{4}{3015} \sqrt{138169}e^{34},$ $\frac{4}{3015} \sqrt{41474}e^{13} + \frac{4}{3015} \sqrt{118597}e^{25}, \frac{4}{3015} \sqrt{16077}e^{16}$	$(-\frac{38}{1005}, \frac{682}{3015}, -\frac{386}{3015}, \frac{1364}{3015}, -\frac{394}{1005}, \frac{568}{3015}, \frac{326}{1005}, -\frac{100}{603}, \frac{454}{3015})$ $+ \frac{8}{3015} \sqrt{91569}e^4 \otimes e_8 + \frac{92}{3015} \sqrt{466}e^2 \otimes e_5$	{1289, 1568, 236789, 3578}
941:35	$0, 0, 0, 0, 0, \frac{1}{10} \sqrt{30}e^{12}, \frac{1}{5} \sqrt{10}e^{34}, \frac{1}{10} \sqrt{30}e^{13} + \frac{1}{10} \sqrt{30}e^{25},$ $\frac{1}{10} \sqrt{15}e^{16}$	$(0, \frac{3}{10}, \frac{3}{20}, -\frac{7}{20}, -\frac{3}{20}, \frac{3}{10}, -\frac{1}{5}, \frac{3}{20}, \frac{3}{10})$ $+ \frac{1}{10} \sqrt{10}e^3 \otimes e_4 + \frac{1}{2} \sqrt{3}e^2 \otimes e_7$	{135678, 1467, 37, 4578}
941:35	$0, 0, 0, 0, 0, \frac{10}{513} \sqrt{46}e^{12}, \frac{10}{171} \sqrt{46}e^{34}, \frac{4}{57} \sqrt{23}e^{13} + \frac{2}{513} \sqrt{6394}e^{25},$ $\frac{2}{513} \sqrt{6854}e^{16}$	$(\frac{40}{513}, -\frac{112}{513}, -\frac{11}{513}, \frac{20}{171}, \frac{47}{171}, -\frac{8}{57}, \frac{49}{513}, \frac{29}{513}, -\frac{32}{513})$ $+ \frac{2}{513} \sqrt{10718}e^4 \otimes e_9 + \frac{4}{513} \sqrt{2622}e^5 \otimes e_7$	{123789, 1259, 134568, 1467}
941:35	$0, 0, 0, 0, 0, \frac{12}{3127} \sqrt{7062}e^{12}, \frac{428}{3127} \sqrt{7}e^{34},$ $\frac{4}{3127} \sqrt{38734}e^{13} + \frac{4}{3127} \sqrt{49755}e^{25}, \frac{4}{3127} \sqrt{124441}e^{16}$	$(\frac{490}{3127}, -\frac{674}{3127}, -\frac{2}{3127}, \frac{364}{3127}, \frac{1162}{3127}, -\frac{184}{3127}, -\frac{366}{3127}, \frac{488}{3127}, \frac{306}{3127})$ $+ \frac{12}{3127} \sqrt{14766}e^5 \otimes e_9 + \frac{40}{3127} \sqrt{1605}e^1 \otimes e_7$	{123489, 134568, 246789, 4578}
941:35	$0, 0, 0, 0, 0, \frac{8}{1153} \sqrt{3901}e^{12}, \frac{4}{1153} \sqrt{19173}e^{34},$ $\frac{4}{1153} \sqrt{2822}e^{13} + \frac{20}{1153} \sqrt{83}e^{25}, \frac{4}{1153} \sqrt{19173}e^{16}$	$(-\frac{306}{1153}, \frac{410}{1153}, \frac{462}{1153}, -\frac{84}{1153}, -\frac{254}{1153}, \frac{104}{1153}, \frac{378}{1153}, \frac{156}{1153}, -\frac{202}{1153})$ $+ \frac{4}{1153} \sqrt{35358}e^2 \otimes e_5 + \frac{8}{1153} \sqrt{12035}e^3 \otimes e_9$	{13456, 13567, 24679, 269}
941:35	$0, 0, 0, 0, 0, \frac{4}{77} \sqrt{15}e^{12}, \frac{20}{77} \sqrt{e}e^{34}, \frac{8}{77} \sqrt{7}e^{13} + \frac{4}{77} \sqrt{30}e^{25},$ $\frac{4}{77} \sqrt{22}e^{16}$	$(-\frac{1}{77}, \frac{2}{77}, \frac{1}{7}, -\frac{17}{77}, \frac{8}{77}, \frac{1}{77}, -\frac{6}{77}, \frac{10}{77}, 0)$ $+ \frac{4}{77} \sqrt{30}e^5 \otimes e_9 + \frac{4}{77} \sqrt{39}e^2 \otimes e_7$	{123489, 135678, 2689, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:35	$0, 0, 0, 0, 0, \frac{12}{989}\sqrt{1166e^{12}}, \frac{52}{989}\sqrt{53e^{34}}, \frac{24}{989}\sqrt{265e^{13}} + \frac{4}{989}\sqrt{4611e^{25}},$ $\frac{52}{989}\sqrt{53e^{16}}$	$(\frac{140}{989}, \frac{6}{989}, \frac{70}{989}, -\frac{354}{989}, \frac{204}{989}, \frac{146}{989}, -\frac{284}{989}, \frac{210}{989}, \frac{286}{989})$ $+ \frac{4}{989}\sqrt{16006e^3} \otimes e_4 + \frac{4}{989}\sqrt{30210e^1} \otimes e_7$	{2356789, 24679, 378, 457}
941:35	$0, 0, 0, 0, 0, \frac{2}{99}\sqrt{506e^{12}}, \frac{2}{99}\sqrt{690e^{34}}, \frac{10}{99}\sqrt{23e^{13}} + \frac{2}{99}\sqrt{115e^{25}},$ $\frac{2}{99}\sqrt{690e^{16}}$	$(-\frac{5}{33}, \frac{19}{99}, \frac{7}{99}, \frac{35}{99}, -\frac{3}{11}, \frac{4}{99}, \frac{14}{33}, -\frac{8}{99}, -\frac{1}{9})$ $+ \frac{2}{99}\sqrt{1219e^4} \otimes e_9 + \frac{2}{99}\sqrt{782e^2} \otimes e_5$	{123789, 134568, 2689, 4578}
941:35	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102e^{12}}, \frac{8}{673}\sqrt{1717e^{34}}, \frac{16}{673}\sqrt{799e^{13}} + \frac{8}{673}\sqrt{4845e^{25}},$ $\frac{8}{673}\sqrt{4879e^{16}}$	$(\frac{10}{673}, -\frac{176}{673}, \frac{202}{673}, \frac{14}{673}, \frac{388}{673}, -\frac{166}{673}, \frac{216}{673}, \frac{212}{673}, -\frac{156}{673})$ $+ \frac{24}{673}\sqrt{1054e^5} \otimes e_9$	{123489, 123789, 134568, 135678, 246789, 2689, 4578, 58}
941:35	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{714e^{12}}, \frac{12}{497}\sqrt{231e^{34}}, \frac{12}{497}\sqrt{70e^{13}} + \frac{4}{497}\sqrt{3927e^{25}},$ $\frac{12}{71}\sqrt{5e^{16}}$	$(\frac{2}{71}, -\frac{14}{71}, -\frac{2}{71}, \frac{24}{71}, \frac{14}{71}, -\frac{12}{71}, \frac{22}{71}, 0, -\frac{10}{71})$ $+ \frac{4}{497}\sqrt{4830e^5} \otimes e_9 + \frac{8}{497}\sqrt{1113e^4} \otimes e_8$	{124567, 1479, 2345, 3469}
941:35	$0, 0, 0, 0, 0, \frac{56}{1069}\sqrt{78e^{12}}, \frac{84}{1069}\sqrt{6e^{34}}, \frac{224}{1069}\sqrt{6e^{13}} + \frac{28}{1069}\sqrt{158e^{25}},$ $\frac{84}{1069}\sqrt{6e^{16}}$	$(-\frac{210}{1069}, \frac{504}{1069}, \frac{434}{1069}, -\frac{350}{1069}, -\frac{280}{1069}, \frac{294}{1069}, \frac{84}{1069}, \frac{224}{1069}, \frac{84}{1069})$ $+ \frac{112}{1069}\sqrt{61e^3} \otimes e_4 + \frac{56}{1069}\sqrt{235e^2} \otimes e_5$	{123, 13569, 246, 459}
941:35	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{165e^{12}}, \frac{4}{43}\sqrt{55e^{34}}, \frac{2}{43}\sqrt{187e^{13}} + \frac{2}{43}\sqrt{165e^{25}},$ $\frac{4}{43}\sqrt{22e^{16}}$	$(\frac{1}{43}, \frac{13}{43}, \frac{4}{43}, -\frac{13}{43}, -\frac{8}{43}, \frac{14}{43}, -\frac{9}{43}, \frac{5}{43}, \frac{15}{43})$ $+ \frac{12}{43}\sqrt{11e^2} \otimes e_7$	{123489, 1259, 135678, 1467, 234569, 2689, 37, 4578}
941:35	$0, 0, 0, 0, 0, \frac{187}{1127}\sqrt{3e^{12}}, \frac{34}{1127}\sqrt{111e^{34}},$ $\frac{34}{1127}\sqrt{21e^{13}} + \frac{153}{1127}\sqrt{3e^{25}}, \frac{17}{1127}\sqrt{697e^{16}}$	$(\frac{136}{1127}, -\frac{51}{322}, \frac{68}{1127}, -\frac{221}{1127}, \frac{765}{2254}, -\frac{85}{2254}, -\frac{153}{1127}, \frac{204}{1127}, \frac{187}{2254})$ $+ \frac{17}{1127}\sqrt{247e^3} \otimes e_4 + \frac{17}{1127}\sqrt{759e^5} \otimes e_9 + \frac{51}{1127}\sqrt{111e^1} \otimes e_7$	{246789, 4578}
941:35	$0, 0, 0, 0, 0, \frac{80}{1361}\sqrt{13e^{12}}, \frac{40}{1361}\sqrt{195e^{34}},$ $\frac{16}{1361}\sqrt{767e^{13}} + \frac{8}{1361}\sqrt{2717e^{25}}, \frac{104}{1361}\sqrt{13e^{16}}$	$(-\frac{160}{1361}, \frac{36}{1361}, \frac{132}{1361}, \frac{388}{1361}, -\frac{64}{1361}, -\frac{124}{1361}, \frac{520}{1361}, -\frac{28}{1361}, -\frac{284}{1361})$ $+ \frac{104}{1361}\sqrt{46e^3} \otimes e_9 + \frac{8}{1361}\sqrt{8034e^4} \otimes e_8$	{123456, 1589, 2378, 4679}
941:35	$0, 0, 0, 0, 0, \frac{8}{219}\sqrt{714e^{12}}, \frac{4}{219}\sqrt{782e^{34}}, \frac{8}{219}\sqrt{238e^{13}} + \frac{4}{219}\sqrt{170e^{25}},$ $\frac{4}{219}\sqrt{782e^{16}}$	$(-\frac{38}{219}, \frac{140}{219}, \frac{46}{219}, \frac{6}{219}, -\frac{44}{73}, \frac{34}{73}, \frac{64}{219}, \frac{8}{219}, \frac{64}{219})$ $+ \frac{8}{219}\sqrt{1513e^2} \otimes e_5$	{12479, 129, 14567, 156, 23469, 23679, 345, 357}
941:35	$0, 0, 0, 0, 0, \frac{4}{377}\sqrt{115e^{12}}, \frac{4}{377}\sqrt{185e^{34}}, \frac{8}{377}\sqrt{62e^{13}} + \frac{4}{377}\sqrt{210e^{25}},$ $\frac{36}{377}\sqrt{2e^{16}}$	$(\frac{19}{377}, -\frac{18}{377}, -\frac{9}{377}, -\frac{17}{377}, \frac{28}{377}, \frac{1}{377}, -\frac{2}{29}, \frac{10}{377}, \frac{20}{377})$ $+ \frac{4}{377}\sqrt{190e^5} \otimes e_9 + \frac{4}{377}\sqrt{259e^2} \otimes e_7 + \frac{8}{377}\sqrt{30e^3} \otimes e_4$	{123489, 2689}
941:35	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102e^{12}}, \frac{8}{673}\sqrt{4879e^{34}}, \frac{16}{673}\sqrt{799e^{13}} + \frac{8}{673}\sqrt{4845e^{25}},$ $\frac{8}{673}\sqrt{1717e^{16}}$	$(\frac{196}{673}, -\frac{176}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{388}{673}, \frac{20}{673}, -\frac{156}{673}, \frac{212}{673}, \frac{216}{673})$ $+ \frac{24}{673}\sqrt{1054e^5} \otimes e_7$	{123789, 1259, 134568, 1467, 234569, 246789, 37, 58}
941:35	$0, 0, 0, 0, 0, \frac{2}{57}\sqrt{154e^{12}}, \frac{10}{57}\sqrt{22e^{34}}, \frac{4}{19}\sqrt{11e^{13}} + \frac{2}{57}\sqrt{154e^{25}},$ $\frac{10}{57}\sqrt{22e^{16}}$	$(-\frac{4}{57}, -\frac{4}{57}, \frac{1}{19}, \frac{32}{57}, \frac{1}{19}, -\frac{8}{57}, \frac{35}{57}, -\frac{1}{57}, -\frac{4}{19})$ $+ \frac{2}{57}\sqrt{1034e^4} \otimes e_9$	{123789, 1259, 134568, 1467, 235679, 2689, 34, 4578}
941:35	$0, 0, 0, 0, 0, \frac{20}{379}\sqrt{3e^{12}}, \frac{20}{379}\sqrt{15e^{34}}, \frac{8}{379}\sqrt{3e^{13}} + \frac{4}{379}\sqrt{303e^{25}},$ $\frac{4}{379}\sqrt{123e^{16}}$	$(\frac{10}{379}, -\frac{46}{379}, -\frac{2}{379}, \frac{32}{379}, \frac{54}{379}, -\frac{36}{379}, \frac{30}{379}, \frac{8}{379}, -\frac{26}{379})$ $- \frac{20}{379}\sqrt{15e^5} \otimes e_7 + \frac{4}{379}\sqrt{291e^3} \otimes e_9 + \frac{4}{379}\sqrt{381e^4} \otimes e_8$	{123456, 1589, 2378, 4679}
941:35	$0, 0, 0, 0, 0, \frac{20}{379}\sqrt{3e^{12}}, \frac{20}{379}\sqrt{15e^{34}}, \frac{8}{379}\sqrt{3e^{13}} + \frac{4}{379}\sqrt{303e^{25}},$ $\frac{4}{379}\sqrt{123e^{16}}$	$(\frac{10}{379}, -\frac{46}{379}, -\frac{2}{379}, \frac{32}{379}, \frac{54}{379}, -\frac{36}{379}, \frac{30}{379}, \frac{8}{379}, -\frac{26}{379})$ $+ \frac{20}{379}\sqrt{15e^5} \otimes e_7 + \frac{4}{379}\sqrt{291e^3} \otimes e_9 + \frac{4}{379}\sqrt{381e^4} \otimes e_8$	{123456, 1589, 2378, 4679}
941:35	$0, 0, 0, 0, 0, \frac{4}{261}\sqrt{462e^{12}}, \frac{4}{261}\sqrt{858e^{34}}, \frac{2}{87}\sqrt{187e^{13}} + \frac{4}{261}\sqrt{462e^{25}},$ $\frac{2}{87}\sqrt{209e^{16}}$	$(-\frac{10}{87}, \frac{61}{261}, \frac{67}{261}, -\frac{8}{29}, -\frac{8}{87}, \frac{31}{261}, -\frac{5}{261}, \frac{37}{261}, \frac{1}{261})$ $+ \frac{2}{87}\sqrt{517e^2} \otimes e_7 + \frac{44}{261}\sqrt{6e^3} \otimes e_9$	{1259, 135678, 2689, 37}
941:35	$0, 0, 0, 0, 0, \frac{18}{233}\sqrt{73e^{12}}, \frac{4}{233}\sqrt{1387e^{34}}, \frac{2}{233}\sqrt{365e^{13}} + \frac{2}{233}\sqrt{1095e^{25}},$ $\frac{4}{233}\sqrt{1387e^{16}}$	$(\frac{71}{233}, -\frac{25}{233}, -\frac{40}{233}, -\frac{35}{233}, \frac{56}{233}, \frac{46}{233}, -\frac{75}{233}, \frac{31}{233}, \frac{117}{233})$ $+ \frac{16}{233}\sqrt{219e^1} \otimes e_7$	{12349, 12589, 13456, 168, 2356789, 24679, 378, 457}
941:35	$0, 0, 0, 0, 0, \frac{16}{2287}\sqrt{897e^{12}}, \frac{8}{2287}\sqrt{5106e^{34}},$ $\frac{32}{2287}\sqrt{138e^{13}} + \frac{72}{2287}\sqrt{322e^{25}}, \frac{8}{2287}\sqrt{24886e^{16}}$	$(-\frac{130}{2287}, -\frac{204}{2287}, \frac{934}{2287}, -\frac{538}{2287}, \frac{1008}{2287}, -\frac{334}{2287}, \frac{396}{2287}, \frac{804}{2287}, -\frac{464}{2287})$ $+ \frac{16}{2287}\sqrt{14835e^5} \otimes e_9 + \frac{32}{2287}\sqrt{2047e^3} \otimes e_4$	{124567, 1479, 2357, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:35	$0, 0, 0, 0, 0, \frac{40}{1357} \sqrt{255}e^{12}, \frac{12}{1357} \sqrt{1785}e^{34},$ $\frac{12}{1357} \sqrt{238}e^{13} + \frac{4}{1357} \sqrt{5151}e^{25}, \frac{12}{1357} \sqrt{1785}e^{16}$	$(\frac{130}{1357}, \frac{210}{1357}, -\frac{2}{23}, -\frac{160}{1357}, -\frac{198}{1357}, \frac{340}{1357}, -\frac{278}{1357}, \frac{12}{1357}, \frac{470}{1357})$ $+ \frac{136}{1357} \sqrt{33}e^1 \otimes e_7 + \frac{4}{1357} \sqrt{23154}e^2 \otimes e_5$	{129, 156, 23679, 357}
941:35	$0, 0, 0, 0, 0, \frac{72}{4235} \sqrt{106}e^{12}, \frac{24}{4235} \sqrt{4479}e^{34},$ $\frac{48}{4235} \sqrt{183}e^{13} + \frac{72}{4235} \sqrt{533}e^{25}, \frac{24}{4235} \sqrt{645}e^{16}$	$(\frac{68}{385}, -\frac{16}{77}, -\frac{848}{4235}, \frac{764}{4235}, \frac{156}{847}, -\frac{12}{385}, -\frac{12}{605}, -\frac{20}{847}, \frac{8}{55})$ $+ \frac{192}{4235} \sqrt{87}e^4 \otimes e_8 + \frac{24}{4235} \sqrt{5934}e^5 \otimes e_7$	{123678, 1479, 2345, 5689}
941:35	$0, 0, 0, 0, 0, \frac{16}{2287} \sqrt{897}e^{12}, \frac{8}{2287} \sqrt{24886}e^{34},$ $\frac{32}{2287} \sqrt{138}e^{13} + \frac{72}{2287} \sqrt{322}e^{25}, \frac{8}{2287} \sqrt{5106}e^{16}$	$(\frac{300}{2287}, -\frac{204}{2287}, \frac{504}{2287}, \frac{968}{2287}, \frac{1008}{2287}, \frac{96}{2287}, -\frac{464}{2287}, \frac{804}{2287}, \frac{396}{2287})$ $+ \frac{16}{2287} \sqrt{14835}e^5 \otimes e_7 + \frac{32}{2287} \sqrt{2047}e^3 \otimes e_4$	{123678, 1479, 2478, 3679}
941:35	$0, 0, 0, 0, 0, \frac{8}{1193} \sqrt{130}e^{12}, \frac{8}{1193} \sqrt{5603}e^{34},$ $\frac{80}{1193} \sqrt{13}e^{13} + \frac{8}{1193} \sqrt{3497}e^{25}, \frac{56}{1193} \sqrt{65}e^{16}$	$(\frac{4}{1193}, -\frac{120}{1193}, \frac{304}{1193}, -\frac{292}{1193}, \frac{428}{1193}, -\frac{116}{1193}, \frac{12}{1193}, \frac{308}{1193}, -\frac{112}{1193})$ $+ \frac{24}{1193} \sqrt{806}e^5 \otimes e_7 + \frac{32}{1193} \sqrt{403}e^3 \otimes e_9$	{123678, 1479, 2345, 5689}
941:35	$0, 0, 0, 0, 0, \frac{3}{88} \sqrt{35}e^{12}, \frac{1}{176} \sqrt{2010}e^{34}, \frac{5}{176} \sqrt{30}e^{13} + \frac{1}{176} \sqrt{15}e^{25},$ $\frac{1}{176} \sqrt{2010}e^{16}$	$(\frac{35}{352}, -\frac{3}{22}, -\frac{47}{352}, \frac{13}{88}, \frac{9}{88}, -\frac{13}{352}, \frac{5}{352}, -\frac{3}{88}, \frac{1}{16})$ $+ \frac{1}{176} \sqrt{2235}e^4 \otimes e_9 + \frac{1}{176} \sqrt{2490}e^1 \otimes e_7$	{1259, 134568, 235679, 4578}
941:35	$0, 0, 0, 0, 0, \frac{14}{999} \sqrt{115}e^{12}, \frac{92}{999} \sqrt{5}e^{34}, \frac{2}{999} \sqrt{8763}e^{13} + \frac{14}{999} \sqrt{115}e^{25},$ $\frac{14}{999} \sqrt{138}e^{16}$	$(-\frac{19}{333}, \frac{109}{999}, \frac{22}{999}, \frac{41}{999}, -\frac{16}{111}, \frac{52}{999}, \frac{7}{111}, -\frac{35}{999}, -\frac{5}{999})$ $+ \frac{2}{999} \sqrt{11454}e^2 \otimes e_7 + \frac{40}{999} \sqrt{23}e^4 \otimes e_9$	{1259, 1467, 2689, 4578}
941:35	$0, 0, 0, 0, 0, \frac{1}{104} \sqrt{870}e^{12}, \frac{5}{208} \sqrt{290}e^{34}, \frac{1}{208} \sqrt{2378}e^{13} + \frac{3}{104} \sqrt{58}e^{25},$ $\frac{3}{52} \sqrt{29}e^{16}$	$(\frac{21}{104}, -\frac{23}{208}, -\frac{29}{104}, \frac{21}{104}, \frac{7}{208}, \frac{19}{208}, -\frac{1}{13}, -\frac{1}{13}, \frac{61}{208})$ $- \frac{1}{208} \sqrt{9222}e^4 \otimes e_8 + \frac{3}{208} \sqrt{1334}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:35	$0, 0, 0, 0, 0, \frac{1}{104} \sqrt{870}e^{12}, \frac{5}{208} \sqrt{290}e^{34}, \frac{1}{208} \sqrt{2378}e^{13} + \frac{3}{104} \sqrt{58}e^{25},$ $\frac{3}{52} \sqrt{29}e^{16}$	$(\frac{21}{104}, -\frac{23}{208}, -\frac{29}{104}, \frac{21}{104}, \frac{7}{208}, \frac{19}{208}, -\frac{1}{13}, -\frac{1}{13}, \frac{61}{208})$ $+ \frac{1}{208} \sqrt{9222}e^4 \otimes e_8 + \frac{3}{208} \sqrt{1334}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:35	$0, 0, 0, 0, 0, \frac{1}{4} \sqrt{3}e^{12}, \frac{1}{2}e^{34}, \frac{3}{4} \sqrt{2}e^{13} + \frac{1}{4} \sqrt{3}e^{25}, \frac{1}{2}e^{16}$	$(-\frac{1}{8}, \frac{3}{10}, \frac{13}{20}, -\frac{3}{5}, \frac{9}{40}, \frac{7}{40}, \frac{1}{20}, \frac{21}{40}, \frac{1}{20})$ $+ \frac{1}{4} \sqrt{34}e^3 \otimes e_4$	{12369, 1245689, 135, 148, 23589, 249, 368, 456}
941:36	$0, 0, 0, 0, 0, \frac{1}{1589} \sqrt{123046}e^{12}, \frac{1}{1589} \sqrt{206074}e^{34},$ $\frac{11}{1589} \sqrt{238}e^{15} + \frac{8}{1589} \sqrt{374}e^{23}, \frac{12}{1589} \sqrt{1309}e^{16}$	$(\frac{90}{1589}, -\frac{89}{1589}, \frac{278}{1589}, -\frac{375}{1589}, \frac{99}{1589}, \frac{1}{1589}, -\frac{97}{1589}, \frac{27}{227}, \frac{13}{227})$ $+ \frac{1}{1589} \sqrt{220286}e^3 \otimes e_9 + \frac{4}{1589} \sqrt{19261}e^1 \otimes e_7$	{1259, 13456, 24679, 37}
941:36	$0, 0, 0, 0, 0, \frac{1}{14} \sqrt{39}e^{12}, \frac{1}{14} \sqrt{130}e^{34}, \frac{1}{14} \sqrt{26}e^{15} + \frac{1}{14} \sqrt{26}e^{23},$ $\frac{1}{14} \sqrt{130}e^{16}$	$(-\frac{3}{14}, \frac{1}{7}, -\frac{3}{28}, \frac{9}{14}, \frac{1}{4}, -\frac{1}{14}, \frac{15}{28}, \frac{1}{28}, -\frac{2}{7})$ $+ \frac{1}{14} \sqrt{299}e^4 \otimes e_9$	{1235789, 129, 1346, 145678, 236789, 2569, 345, 478}
941:36	$0, 0, 0, 0, 0, \frac{50}{2209} \sqrt{341}e^{12}, \frac{550}{2209} \sqrt{3}e^{34}, \frac{550}{2209} e^{15} + \frac{100}{2209} \sqrt{33}e^{23},$ $\frac{2}{2209} \sqrt{385}e^{16}$	$(\frac{429}{2209}, -\frac{185}{2209}, -\frac{207}{2209}, \frac{858}{2209}, -\frac{821}{2209}, \frac{244}{2209}, \frac{651}{2209}, -\frac{392}{2209}, \frac{673}{2209})$ $+ \frac{100}{2209} \sqrt{247}e^1 \otimes e_5 + \frac{50}{2209} \sqrt{933}e^4 \otimes e_8$	{1289, 13678, 25689, 3578}
941:36	$0, 0, 0, 0, 0, \frac{20}{1167} \sqrt{235}e^{12}, \frac{10}{3501} \sqrt{2867}e^{34},$ $\frac{10}{3501} \sqrt{16779}e^{15} + \frac{20}{3501} \sqrt{6862}e^{23}, \frac{10}{3501} \sqrt{26273}e^{16}$	$(-\frac{335}{3501}, -\frac{1}{1167}, \frac{1345}{3501}, -\frac{335}{1167}, \frac{559}{1167}, -\frac{338}{3501}, \frac{340}{3501}, \frac{1342}{3501}, -\frac{673}{3501})$ $+ \frac{10}{1167} \sqrt{7661}e^3 \otimes e_4 + \frac{10}{3501} \sqrt{76751}e^5 \otimes e_9$	{12356, 1389, 2458, 469}
941:36	$0, 0, 0, 0, 0, \frac{2}{567} \sqrt{6307}e^{12}, \frac{2}{567} \sqrt{12019}e^{34},$ $\frac{2}{567} \sqrt{21777}e^{15} + \frac{4}{189} \sqrt{119}e^{23}, \frac{2}{81} \sqrt{85}e^{16}$	$(-\frac{5}{27}, \frac{11}{81}, -\frac{11}{81}, \frac{34}{81}, \frac{5}{27}, -\frac{4}{81}, \frac{23}{81}, 0, -\frac{19}{81})$ $+ \frac{2}{189} \sqrt{3689}e^4 \otimes e_8 + \frac{4}{567} \sqrt{6783}e^5 \otimes e_9$	{123456, 13789, 258, 4679}
941:36	$0, 0, 0, 0, 0, \frac{2}{13} \sqrt{3}e^{12}, \frac{6}{91} \sqrt{35}e^{34}, \frac{2}{91} \sqrt{427}e^{15} + \frac{6}{91} \sqrt{14}e^{23},$ $\frac{6}{91} \sqrt{21}e^{16}$	$(-\frac{1}{13}, \frac{19}{91}, -\frac{3}{13}, \frac{12}{91}, \frac{5}{91}, \frac{12}{91}, -\frac{9}{91}, -\frac{2}{91}, \frac{5}{91})$ $+ \frac{2}{91} \sqrt{182}e^2 \otimes e_9 + \frac{2}{91} \sqrt{357}e^4 \otimes e_8 + \frac{4}{91} \sqrt{105}e^5 \otimes e_7$	{1236789, 1345, 2479, 568}
941:36	$0, 0, 0, 0, 0, \frac{2}{13} \sqrt{3}e^{12}, \frac{6}{91} \sqrt{35}e^{34}, \frac{2}{91} \sqrt{427}e^{15} + \frac{6}{91} \sqrt{14}e^{23},$ $\frac{6}{91} \sqrt{21}e^{16}$	$(-\frac{1}{13}, \frac{19}{91}, -\frac{3}{13}, \frac{12}{91}, \frac{5}{91}, \frac{12}{91}, -\frac{9}{91}, -\frac{2}{91}, \frac{5}{91})$ $- \frac{2}{91} \sqrt{182}e^2 \otimes e_9 + \frac{2}{91} \sqrt{357}e^4 \otimes e_8 + \frac{4}{91} \sqrt{105}e^5 \otimes e_7$	{1236789, 1345, 2479, 568}
941:36	$0, 0, 0, 0, 0, \frac{12}{317} \sqrt{179}e^{12}, \frac{1}{317} \sqrt{1074}e^{34}, \frac{4}{317} \sqrt{1253}e^{15} + \frac{3}{317} \sqrt{1790}e^{23},$ $\frac{1}{317} \sqrt{31146}e^{16}$	$(\frac{102}{317}, -\frac{81}{317}, \frac{106}{317}, -\frac{73}{317}, -\frac{77}{317}, \frac{21}{317}, \frac{33}{317}, \frac{25}{317}, \frac{123}{317})$ $+ \frac{13}{317} \sqrt{358}e^1 \otimes e_5 + \frac{4}{317} \sqrt{2506}e^3 \otimes e_4$	{1239, 146, 23569, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:36	$0, 0, 0, 0, 0, \frac{4}{1373} \sqrt{83141e^{12}}, \frac{1}{1373} \sqrt{217806e^{34}},$ $\frac{4}{1373} \sqrt{40985e^{15}} + \frac{1}{1373} \sqrt{119442e^{23}}, \frac{1}{1373} \sqrt{1290442e^{16}}$	$(\frac{534}{1373}, -\frac{289}{1373}, \frac{186}{1373}, \frac{135}{1373}, -\frac{637}{1373}, \frac{245}{1373}, \frac{321}{1373}, -\frac{103}{1373}, \frac{779}{1373})$ $+\frac{1}{1373} \sqrt{2681590e^1} \otimes e_5$	{12479, 129, 1346, 1367, 245679, 2569, 345, 357}
941:36	$0, 0, 0, 0, 0, \frac{44}{405} \sqrt{5e^{12}}, \frac{2}{405} \sqrt{3355e^{34}}, \frac{2}{405} \sqrt{2805e^{15}} + \frac{2}{27} \sqrt{11e^{23}},$ $\frac{1}{405} \sqrt{11110e^{16}}$	$(-\frac{1}{27}, \frac{44}{405}, \frac{2}{81}, -\frac{16}{81}, \frac{23}{135}, \frac{29}{405}, -\frac{14}{81}, \frac{2}{15}, \frac{14}{405})$ $+\frac{1}{405} \sqrt{14190e^5} \otimes e_9 + \frac{2}{135} \sqrt{715e^1} \otimes e_7$	{123489, 13456, 24679, 4578}
941:36	$0, 0, 0, 0, 0, \frac{2}{937} \sqrt{14329e^{12}}, \frac{32}{937} \sqrt{161e^{34}},$ $\frac{2}{937} \sqrt{13685e^{15}} + \frac{26}{937} \sqrt{161e^{23}}, \frac{2}{937} \sqrt{966e^{16}}$	$(-\frac{77}{937}, \frac{263}{937}, -\frac{322}{937}, \frac{263}{937}, \frac{18}{937}, \frac{186}{937}, \frac{59}{937}, -\frac{59}{937}, \frac{109}{937})$ $+\frac{2}{937} \sqrt{67298e^2} \otimes e_7 - \frac{8}{937} \sqrt{4186e^4} \otimes e_8$	{123459, 1289, 13678, 14567, 23469, 25689, 3578, 47}
941:36	$0, 0, 0, 0, 0, \frac{2}{937} \sqrt{14329e^{12}}, \frac{32}{937} \sqrt{161e^{34}},$ $\frac{2}{937} \sqrt{13685e^{15}} + \frac{26}{937} \sqrt{161e^{23}}, \frac{2}{937} \sqrt{966e^{16}}$	$(-\frac{77}{937}, \frac{263}{937}, -\frac{322}{937}, \frac{263}{937}, \frac{18}{937}, \frac{186}{937}, -\frac{59}{937}, -\frac{59}{937}, \frac{109}{937})$ $+\frac{2}{937} \sqrt{67298e^2} \otimes e_7 + \frac{8}{937} \sqrt{4186e^4} \otimes e_8$	{123459, 1289, 13678, 14567, 23469, 25689, 3578, 47}
941:36	$0, 0, 0, 0, 0, \frac{2}{813} \sqrt{23009e^{12}}, \frac{32}{813} \sqrt{133e^{34}},$ $\frac{2}{813} \sqrt{13699e^{15}} + \frac{2}{271} \sqrt{665e^{23}}, \frac{14}{813} \sqrt{494e^{16}}$	$(-\frac{161}{813}, \frac{81}{271}, -\frac{70}{271}, \frac{187}{813}, \frac{194}{813}, \frac{82}{813}, -\frac{23}{813}, \frac{11}{271}, -\frac{79}{813})$ $+\frac{2}{813} \sqrt{49210e^2} \otimes e_7 + \frac{8}{813} \sqrt{2926e^4} \otimes e_9$	{12589, 1467, 2689, 457}
941:36	$0, 0, 0, 0, 0, \frac{6}{353} \sqrt{1921e^{12}}, \frac{24}{353} \sqrt{102e^{34}}, \frac{102}{353} \sqrt{3e^{15}} + \frac{6}{353} \sqrt{1105e^{23}},$ $\frac{6}{353} \sqrt{646e^{16}}$	$(-\frac{37}{353}, \frac{175}{353}, -\frac{98}{353}, -\frac{33}{353}, \frac{114}{353}, \frac{138}{353}, -\frac{131}{353}, \frac{77}{353}, \frac{101}{353})$ $+\frac{6}{353} \sqrt{4930e^2} \otimes e_7$	{12349, 12589, 135678, 1467, 234569, 2689, 378, 457}
941:36	$0, 0, 0, 0, 0, \frac{8}{207} \sqrt{35e^{12}}, \frac{4}{207} \sqrt{310e^{34}}, \frac{8}{207} \sqrt{57e^{15}} + \frac{4}{207} \sqrt{102e^{23}},$ $\frac{4}{207} \sqrt{106e^{16}}$	$(\frac{2}{23}, \frac{13}{207}, -\frac{59}{414}, \frac{31}{414}, -\frac{1}{6}, \frac{31}{207}, -\frac{14}{207}, -\frac{11}{138}, \frac{49}{207})$ $+\frac{4}{207} \sqrt{282e^4} \otimes e_8 + \frac{8}{207} \sqrt{114e^1} \otimes e_7$	{13456, 168, 2356789, 24679}
941:36	$0, 0, 0, 0, 0, \frac{120}{1951} \sqrt{66e^{12}}, \frac{40}{1951} \sqrt{715e^{34}},$ $\frac{440}{1951} \sqrt{3e^{15}} + \frac{240}{1951} \sqrt{11e^{23}}, \frac{40}{1951} \sqrt{462e^{16}}$	$(\frac{330}{1951}, \frac{84}{1951}, \frac{165}{1951}, -\frac{635}{1951}, -\frac{81}{1951}, \frac{414}{1951}, -\frac{470}{1951}, \frac{249}{1951}, \frac{744}{1951})$ $+\frac{120}{1951} \sqrt{163e^1} \otimes e_7 + \frac{40}{1951} \sqrt{202e^3} \otimes e_4$	{2356789, 24679, 37, 4578}
941:36	$0, 0, 0, 0, 0, \frac{5}{193} \sqrt{94e^{12}}, \frac{5}{193} \sqrt{130e^{34}}, \frac{30}{193} \sqrt{3e^{15}} + \frac{5}{193} \sqrt{106e^{23}},$ $\frac{5}{193} \sqrt{102e^{16}}$	$(-\frac{10}{193}, \frac{27}{193}, -\frac{5}{193}, -\frac{30}{193}, \frac{32}{193}, \frac{17}{193}, -\frac{35}{193}, \frac{22}{193}, \frac{7}{193})$ $+\frac{10}{193} \sqrt{7e^3} \otimes e_4 + \frac{55}{193} \sqrt{2e^1} \otimes e_7 + \frac{5}{193} \sqrt{130e^5} \otimes e_9$	{123489, 13456}
941:36	$0, 0, 0, 0, 0, \frac{1377}{6961} \sqrt{2e^{12}}, \frac{51}{6961} \sqrt{1302e^{34}},$ $\frac{306}{6961} \sqrt{13e^{15}} + \frac{51}{6961} \sqrt{2810e^{23}}, \frac{357}{6961} \sqrt{34e^{16}}$	$(-\frac{663}{6961}, \frac{1224}{6961}, \frac{612}{6961}, -\frac{1989}{6961}, \frac{2499}{6961}, \frac{561}{6961}, -\frac{1377}{6961}, \frac{1836}{6961}, -\frac{102}{6961})$ $+\frac{2040}{6961} \sqrt{2e^5} \otimes e_9 + \frac{51}{6961} \sqrt{4006e^3} \otimes e_4 + \frac{51}{6961} \sqrt{5386e^2} \otimes e_7$	{135678, 457}
941:36	$0, 0, 0, 0, 0, \frac{2}{711} \sqrt{37901e^{12}}, \frac{8}{711} \sqrt{2869e^{34}},$ $\frac{2}{711} \sqrt{24009e^{15}} + \frac{2}{711} \sqrt{30351e^{23}}, \frac{4}{711} \sqrt{6946e^{16}}$	$(\frac{13}{79}, \frac{61}{711}, \frac{8}{711}, -\frac{193}{711}, -\frac{16}{237}, \frac{178}{711}, -\frac{185}{711}, \frac{23}{237}, \frac{295}{711})$ $+\frac{20}{711} \sqrt{906e^1} \otimes e_7$	{123489, 1259, 13456, 168, 2356789, 24679, 37, 4578}
941:36	$0, 0, 0, 0, 0, \frac{3}{202} \sqrt{65e^{12}}, \frac{9}{101} \sqrt{7e^{34}}, \frac{3}{202} \sqrt{202e^{15}} + \frac{3}{101} \sqrt{13e^{23}},$ $\frac{9}{202} \sqrt{2e^{16}}$	$(-\frac{12}{101}, \frac{9}{101}, -\frac{6}{101}, \frac{12}{101}, \frac{15}{101}, -\frac{3}{101}, \frac{6}{101}, \frac{3}{101}, -\frac{15}{101})$ $+\frac{3}{202} \sqrt{197e^3} \otimes e_9 + \frac{3}{202} \sqrt{263e^5} \otimes e_7 + \frac{51}{202} e^4 \otimes e_8$	{123456, 4679}
941:36	$0, 0, 0, 0, 0, \frac{2}{849} \sqrt{10033e^{12}}, \frac{8}{849} \sqrt{1027e^{34}},$ $\frac{2}{849} \sqrt{12719e^{15}} + \frac{10}{283} \sqrt{79e^{23}}, \frac{2}{849} \sqrt{17143e^{16}}$	$(-\frac{97}{849}, \frac{31}{283}, \frac{19}{283}, -\frac{122}{849}, \frac{247}{849}, -\frac{4}{849}, -\frac{65}{849}, \frac{50}{283}, -\frac{101}{849})$ $+\frac{2}{849} \sqrt{28361e^2} \otimes e_7 + \frac{4}{849} \sqrt{7979e^3} \otimes e_9$	{12589, 135678, 2689, 378}
941:36	$0, 0, 0, 0, 0, \frac{2}{279} \sqrt{2886e^{12}}, \frac{4}{279} \sqrt{546e^{34}}, \frac{2}{93} \sqrt{195e^{15}} + \frac{2}{279} \sqrt{741e^{23}},$ $\frac{4}{31} \sqrt{13e^{16}}$	$(\frac{7}{93}, -\frac{3}{31}, -\frac{1}{31}, \frac{1}{3}, -\frac{19}{93}, -\frac{2}{93}, \frac{28}{93}, -\frac{4}{31}, \frac{5}{93})$ $+\frac{22}{279} \sqrt{39e^4} \otimes e_9 + \frac{26}{279} \sqrt{30e^1} \otimes e_5$	{129, 1346, 2569, 345}
941:36	$0, 0, 0, 0, 0, \frac{14}{4329} \sqrt{3355e^{12}}, \frac{2}{4329} \sqrt{582505e^{34}},$ $\frac{2}{4329} \sqrt{701085e^{15}} + \frac{70}{4329} \sqrt{66e^{23}}, \frac{14}{4329} \sqrt{3905e^{16}}$	$(-\frac{63}{481}, \frac{967}{4329}, -\frac{973}{4329}, \frac{764}{4329}, \frac{187}{1443}, \frac{400}{4329}, -\frac{209}{4329}, -\frac{2}{1443}, -\frac{167}{4329})$ $+\frac{22}{4329} \sqrt{6195e^4} \otimes e_8 + \frac{4}{1443} \sqrt{21945e^5} \otimes e_7$	{1236789, 1345, 2479, 568}
941:36	$0, 0, 0, 0, 0, \frac{6}{179} \sqrt{14e^{12}}, \frac{42}{179} \sqrt{5e^{34}}, \frac{3}{179} \sqrt{518e^{15}} + \frac{3}{179} \sqrt{434e^{23}},$ $\frac{3}{179} \sqrt{266e^{16}}$	$(-\frac{42}{179}, \frac{45}{179}, -\frac{21}{179}, \frac{24}{179}, \frac{66}{179}, \frac{3}{179}, \frac{3}{179}, \frac{24}{179}, -\frac{39}{179})$ $+\frac{3}{179} \sqrt{1190e^5} \otimes e_7 + \frac{6}{179} \sqrt{266e^4} \otimes e_9$	{123789, 1259, 13456, 14678}
941:36	$0, 0, 0, 0, 0, \frac{1}{1397} \sqrt{34646e^{12}}, \frac{1}{1397} \sqrt{650122e^{34}},$ $\frac{1}{1397} \sqrt{527842e^{15}} + \frac{4}{1397} \sqrt{56045e^{23}}, \frac{4}{1397} \sqrt{70311e^{16}}$	$(-\frac{78}{1397}, -\frac{225}{1397}, \frac{58}{127}, -\frac{87}{1397}, \frac{491}{1397}, -\frac{303}{1397}, \frac{551}{1397}, \frac{413}{1397}, -\frac{3}{11})$ $+\frac{1}{1397} \sqrt{2374270e^3} \otimes e_9$	{1245789, 12589, 134568, 135678, 246789, 2689, 348, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:36	$0, 0, 0, 0, 0, \frac{3}{1307}\sqrt{22946e^{12}}, \frac{1}{1307}\sqrt{337634e^{34}},$ $\frac{4}{1307}\sqrt{24585e^{15}} + \frac{3}{1307}\sqrt{193402e^{23}}, \frac{2}{1307}\sqrt{93423e^{16}}$	$(\frac{291}{1307}, -\frac{246}{1307}, \frac{879}{1307}, -\frac{760}{1307}, \frac{342}{1307}, \frac{45}{1307}, \frac{119}{1307}, \frac{633}{1307}, \frac{336}{1307})$ $+ \frac{1}{1307}\sqrt{3556630e^3} \otimes e_4$	{1236, 124568, 13589, 149, 235, 248, 3689, 4569}
941:36	$0, 0, 0, 0, 0, \frac{3}{977}\sqrt{15538e^{12}}, \frac{1}{977}\sqrt{97798e^{34}},$ $\frac{2}{977}\sqrt{31533e^{15}} + \frac{1}{977}\sqrt{260490e^{23}}, \frac{9}{977}\sqrt{914e^{16}}$	$(\frac{9}{977}, \frac{168}{977}, \frac{84}{977}, -\frac{373}{977}, \frac{243}{977}, \frac{177}{977}, -\frac{289}{977}, \frac{252}{977}, \frac{186}{977})$ $+ \frac{1}{977}\sqrt{339094e^3} \otimes e_4 + \frac{1}{977}\sqrt{457914e^2} \otimes e_7$	{135678, 1467, 378, 457}
941:36	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{19e^{12}}, \frac{2}{51}\sqrt{114e^{34}}, \frac{2}{51}\sqrt{399e^{15}} + \frac{4}{51}\sqrt{19e^{23}},$ $\frac{1}{51}\sqrt{1406e^{16}}$	$(-\frac{49}{153}, \frac{38}{153}, \frac{8}{51}, \frac{16}{51}, \frac{37}{51}, -\frac{11}{153}, \frac{40}{153}, \frac{62}{153}, -\frac{20}{51})$ $+ \frac{5}{51}\sqrt{190e^5} \otimes e_9$	{124567, 1256, 14789, 189, 23458, 23578, 3469, 3679}
941:36	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154e^{12}}, \frac{3}{259}\sqrt{791e^{34}}, \frac{3}{259}\sqrt{574e^{15}} + \frac{3}{259}\sqrt{427e^{23}},$ $\frac{6}{37e^{16}}$	$(-\frac{6}{37}, \frac{9}{37}, -\frac{9}{37}, \frac{9}{37}, \frac{6}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $- \frac{3}{259}\sqrt{1337e^4} \otimes e_8 + \frac{3}{259}\sqrt{826e^5} \otimes e_9 + \frac{3}{37}\sqrt{23e^2} \otimes e_7$	{1289, 14567, 23469, 3578}
941:36	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154e^{12}}, \frac{3}{259}\sqrt{791e^{34}}, \frac{3}{259}\sqrt{574e^{15}} + \frac{3}{259}\sqrt{427e^{23}},$ $\frac{6}{37e^{16}}$	$(-\frac{6}{37}, \frac{9}{37}, -\frac{9}{37}, \frac{9}{37}, \frac{6}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $+ \frac{3}{259}\sqrt{1337e^4} \otimes e_8 + \frac{3}{259}\sqrt{826e^5} \otimes e_9 + \frac{3}{37}\sqrt{23e^2} \otimes e_7$	{1289, 14567, 23469, 3578}
941:36	$0, 0, 0, 0, 0, \frac{70}{3141}\sqrt{385e^{12}}, \frac{20}{3141}\sqrt{5005e^{34}},$ $\frac{10}{1047}\sqrt{385e^{15}} + \frac{10}{3141}\sqrt{8855e^{23}}, \frac{50}{1047}\sqrt{77e^{16}}$	$(-\frac{721}{3141}, \frac{1177}{3141}, -\frac{413}{3141}, -\frac{160}{3141}, \frac{165}{349}, \frac{152}{1047}, -\frac{191}{1047}, \frac{764}{3141}, -\frac{265}{3141})$ $+ \frac{10}{1047}\sqrt{6055e^2} \otimes e_7 + \frac{20}{3141}\sqrt{10255e^5} \otimes e_9$	{1289, 14567, 23469, 3578}
941:36	$0, 0, 0, 0, 0, \frac{2}{567}\sqrt{497e^{12}}, \frac{26}{567}\sqrt{7e^{34}}, \frac{2}{567}\sqrt{1113e^{15}} + \frac{4}{189}\sqrt{14e^{23}},$ $\frac{2}{81}\sqrt{13e^{16}}$	$(-\frac{1}{27}, \frac{7}{81}, -\frac{7}{81}, \frac{2}{81}, \frac{1}{27}, \frac{4}{81}, -\frac{5}{81}, 0, \frac{1}{81})$ $+ \frac{2}{189}\sqrt{105e^4} \otimes e_8 + \frac{4}{27}e^1 \otimes e_7 + \frac{4}{567}\sqrt{231e^5} \otimes e_9$	{13456, 24679}
941:36	$0, 0, 0, 0, 0, \frac{6}{869}\sqrt{219e^{12}}, \frac{6}{869}\sqrt{354e^{34}}, \frac{6}{869}\sqrt{89e^{15}} + \frac{6}{869}\sqrt{193e^{23}},$ $\frac{12}{869}\sqrt{65e^{16}}$	$(-\frac{15}{869}, \frac{57}{869}, -\frac{78}{869}, \frac{45}{869}, -\frac{6}{869}, \frac{42}{869}, -\frac{3}{79}, -\frac{21}{869}, \frac{27}{869})$ $+ \frac{12}{869}\sqrt{79e^4} \otimes e_9 + \frac{6}{869}\sqrt{470e^1} \otimes e_7$	{1259, 13456, 2356789, 4578}
941:36	$0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3e^{12}}, \frac{46}{2593}\sqrt{813e^{34}},$ $\frac{46}{2593}\sqrt{287e^{15}} + \frac{46}{2593}\sqrt{154e^{23}}, \frac{46}{2593}\sqrt{409e^{16}}$	$(-\frac{351}{2593}, \frac{191}{2593}, \frac{547}{2593}, -\frac{516}{2593}, \frac{1089}{2593}, -\frac{160}{2593}, \frac{31}{2593}, \frac{738}{2593}, -\frac{511}{2593})$ $+ \frac{46}{2593}\sqrt{1079e^5} \otimes e_7 + \frac{46}{2593}\sqrt{1217e^3} \otimes e_9$	{123456, 159, 237, 4679}
941:36	$0, 0, 0, 0, 0, \frac{2}{4029}\sqrt{852945e^{12}}, \frac{16}{4029}\sqrt{5630e^{34}},$ $\frac{2}{4029}\sqrt{448711e^{15}} + \frac{2}{4029}\sqrt{158203e^{23}}, \frac{2}{4029}\sqrt{571445e^{16}}$	$(\frac{515}{4029}, \frac{135}{1343}, -\frac{167}{1343}, -\frac{220}{4029}, -\frac{611}{4029}, \frac{920}{4029}, -\frac{721}{4029}, -\frac{32}{1343}, \frac{1435}{4029})$ $+ \frac{2}{4029}\sqrt{1002703e^2} \otimes e_7 + \frac{4}{4029}\sqrt{257291e^1} \otimes e_5$	{12349, 1467, 234569, 457}
941:36	$0, 0, 0, 0, 0, \frac{8}{1323}\sqrt{1111e^{12}}, \frac{2}{1323}\sqrt{301081e^{34}},$ $\frac{1}{1323}\sqrt{1326534e^{15}} + \frac{101}{1323}\sqrt{66e^{23}}, \frac{1}{1323}\sqrt{295526e^{16}}$	$(-\frac{26}{147}, \frac{533}{1323}, -\frac{41}{1323}, -\frac{344}{1323}, \frac{242}{441}, \frac{299}{1323}, -\frac{55}{189}, \frac{164}{441}, \frac{65}{1323})$ $+ \frac{5}{441}\sqrt{11110e^5} \otimes e_7$	{1236789, 12569, 1345, 1478, 234589, 2479, 367, 568}
941:36	$0, 0, 0, 0, 0, \frac{2}{3649}\sqrt{124735e^{12}}, \frac{10}{3649}\sqrt{18281e^{34}},$ $\frac{6}{3649}\sqrt{10605e^{15}} + \frac{2}{3649}\sqrt{471670e^{23}}, \frac{2}{3649}\sqrt{326735e^{16}}$	$(-\frac{207}{3649}, -\frac{305}{3649}, \frac{291}{3649}, \frac{996}{3649}, \frac{193}{3649}, -\frac{512}{3649}, \frac{1287}{3649}, -\frac{14}{3649}, -\frac{719}{3649})$ $+ \frac{14}{3649}\sqrt{15655e^4} \otimes e_8 + \frac{4}{3649}\sqrt{220685e^3} \otimes e_9$	{123456, 14579, 234, 4679}
941:36	$0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{2}{9}\sqrt{10e^{34}}, \frac{4}{9}\sqrt{3e^{15}} + \frac{2}{9}\sqrt{6e^{23}}, \frac{2}{9}\sqrt{2e^{16}}$	$(0, \frac{1}{9}, -\frac{5}{18}, \frac{13}{18}, -\frac{1}{6}, \frac{1}{9}, \frac{4}{9}, -\frac{1}{6}, \frac{1}{9})$ $+ \frac{2}{9}\sqrt{30e^4} \otimes e_8$	{1234569, 12689, 1378, 1457, 2349, 2589, 35678, 467}
941:37	$0, 0, 0, 0, 0, \frac{2}{1697}\sqrt{14190e^{12}}, \frac{4}{1697}\sqrt{4895e^{34}}, \frac{1}{1697}\sqrt{5610e^{35}},$ $\frac{1}{1697}\sqrt{10670e^{13}} + \frac{5}{1697}\sqrt{3058e^{26}}$	$(\frac{43}{1697}, -\frac{51}{1697}, -\frac{102}{1697}, -\frac{4}{1697}, \frac{222}{1697}, -\frac{8}{1697}, -\frac{106}{1697}, \frac{120}{1697}, -\frac{59}{1697})$ $+ \frac{1}{1697}\sqrt{108790e^2} \otimes e_7 + \frac{1}{1697}\sqrt{59070e^4} \otimes e_9$	{1356789, 13679, 234568, 2346}
941:37	$0, 0, 0, 0, 0, \frac{234}{5101}\sqrt{10e^{12}}, \frac{26}{5101}\sqrt{915e^{34}}, \frac{13}{5101}\sqrt{1478e^{35}},$ $\frac{13}{5101}\sqrt{3306e^{13}} + \frac{13}{5101}\sqrt{3590e^{26}}$	$(\frac{533}{5101}, -\frac{208}{5101}, -\frac{416}{5101}, \frac{39}{5101}, \frac{286}{5101}, \frac{325}{5101}, -\frac{377}{5101}, -\frac{130}{5101}, \frac{117}{5101})$ $+ \frac{13}{5101}\sqrt{5414e^2} \otimes e_7 + \frac{481}{5101}\sqrt{2e^4} \otimes e_8 + \frac{65}{5101}\sqrt{42e^5} \otimes e_9$	{136789, 23456}
941:37	$0, 0, 0, 0, 0, \frac{12}{419}\sqrt{143e^{12}}, \frac{6}{419}\sqrt{429e^{34}}, \frac{6}{419}\sqrt{429e^{35}},$ $\frac{6}{419}\sqrt{869e^{13}} + \frac{12}{419}\sqrt{143e^{26}}$	$(\frac{104}{419}, -\frac{53}{419}, -\frac{106}{419}, \frac{196}{419}, \frac{12}{419}, \frac{51}{419}, \frac{90}{419}, -\frac{94}{419}, -\frac{2}{419})$ $+ \frac{12}{419}\sqrt{506e^1} \otimes e_8 + \frac{12}{419}\sqrt{506e^4} \otimes e_9$	{129, 169, 245678, 4578}
941:37	$0, 0, 0, 0, 0, \frac{12}{107}\sqrt{13e^{12}}, \frac{4}{107}\sqrt{138e^{34}}, \frac{4}{107}\sqrt{3e^{35}},$ $\frac{12}{107}\sqrt{10e^{13}} + \frac{12}{107}\sqrt{13e^{26}}$	$(\frac{4}{107}, \frac{9}{107}, \frac{18}{107}, -\frac{33}{107}, -\frac{6}{107}, \frac{13}{107}, -\frac{15}{107}, \frac{12}{107}, \frac{22}{107})$ $+ \frac{4}{107}\sqrt{222e^2} \otimes e_7 + \frac{8}{107}\sqrt{15e^3} \otimes e_5$	{12349, 13679, 2346, 37}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:37	$0, 0, 0, 0, 0, \frac{4}{3545} \sqrt{138306}e^{12}, \frac{2}{3545} \sqrt{861693}e^{34}, \frac{2}{3545} \sqrt{218337}e^{35},$ $\frac{42}{3545} \sqrt{111}e^{13} + \frac{8}{3545} \sqrt{7770}e^{26}$	$(\frac{1424}{3545}, -\frac{91}{709}, -\frac{182}{709}, \frac{156}{709}, \frac{136}{3545}, \frac{969}{3545}, -\frac{26}{709}, -\frac{774}{3545}, \frac{514}{3545})$ $+ \frac{12}{3545} \sqrt{35742}e^1 \otimes e_7 + \frac{16}{3545} \sqrt{17871}e^4 \otimes e_8$	{123459, 134569, 23678, 378}
941:37	$0, 0, 0, 0, 0, \frac{4}{397} \sqrt{165}e^{12}, \frac{1}{397} \sqrt{66}e^{34}, \frac{4}{397} \sqrt{209}e^{35},$ $\frac{4}{397} \sqrt{110}e^{13} + \frac{1}{397} \sqrt{3322}e^{26}$	$(\frac{23}{397}, -\frac{15}{397}, -\frac{30}{397}, \frac{42}{397}, \frac{4}{397}, \frac{8}{397}, \frac{12}{397}, -\frac{26}{397}, -\frac{7}{397})$ $+ \frac{1}{397} \sqrt{4774}e^2 \otimes e_8 + \frac{3}{397} \sqrt{286}e^5 \otimes e_9 + \frac{4}{397} \sqrt{33}e^1 \otimes e_7$	{13689, 234567}
941:37	$0, 0, 0, 0, 0, \frac{40}{169} e^{12}, \frac{2}{169} \sqrt{1245}e^{34}, \frac{2}{169} \sqrt{695}e^{35},$ $\frac{2}{169} \sqrt{1185}e^{13} + \frac{4}{169} \sqrt{70}e^{26}$	$(\frac{32}{169}, \frac{9}{169}, \frac{18}{169}, -\frac{36}{169}, -\frac{32}{169}, \frac{41}{169}, \frac{18}{169}, -\frac{14}{169}, \frac{50}{169})$ $+ \frac{4}{169} \sqrt{510}e^1 \otimes e_7 + \frac{8}{169} \sqrt{115}e^3 \otimes e_5$	{1234, 1346, 23679, 379}
941:37	$0, 0, 0, 0, 0, \frac{4}{2191} \sqrt{51645}e^{12}, \frac{44}{2191} \sqrt{105}e^{34}, \frac{4}{2191} \sqrt{38390}e^{35},$ $\frac{4}{2191} \sqrt{34430}e^{13} + \frac{20}{2191} \sqrt{1705}e^{26}$	$(\frac{452}{2191}, -\frac{15}{2191}, -\frac{30}{2191}, \frac{6}{313}, -\frac{425}{2191}, \frac{437}{2191}, \frac{12}{2191}, -\frac{65}{313}, \frac{422}{2191})$ $+ \frac{4}{2191} \sqrt{78430}e^2 \otimes e_8 + \frac{8}{2191} \sqrt{6765}e^1 \otimes e_7$	{123459, 134689, 23567, 378}
941:37	$0, 0, 0, 0, 0, \frac{8}{227} \sqrt{218}e^{12}, \frac{16}{227} \sqrt{53}e^{34}, \frac{24}{227} \sqrt{2}e^{35},$ $\frac{80}{227} \sqrt{2}e^{13} + \frac{8}{227} \sqrt{218}e^{26}$	$(\frac{24}{227}, \frac{9}{227}, \frac{18}{227}, -\frac{73}{227}, \frac{24}{227}, \frac{33}{227}, -\frac{55}{227}, \frac{42}{227}, \frac{42}{227})$ $+ \frac{16}{227} \sqrt{97}e^2 \otimes e_7$	{123459, 123489, 135679, 136789, 23456, 23468, 357, 378}
941:37	$0, 0, 0, 0, 0, \frac{8}{3545} \sqrt{7770}e^{12}, \frac{2}{3545} \sqrt{218337}e^{34}, \frac{2}{3545} \sqrt{861693}e^{35},$ $\frac{42}{3545} \sqrt{111}e^{13} + \frac{4}{3545} \sqrt{138306}e^{26}$	$(\frac{64}{709}, -\frac{91}{709}, -\frac{182}{709}, \frac{1608}{3545}, \frac{964}{3545}, -\frac{27}{709}, \frac{698}{3545}, \frac{54}{3545}, -\frac{118}{709})$ $+ \frac{12}{3545} \sqrt{35742}e^5 \otimes e_9 + \frac{16}{3545} \sqrt{17871}e^4 \otimes e_8$	{123789, 136789, 23456, 345}
941:37	$0, 0, 0, 0, 0, \frac{2}{51} \sqrt{42}e^{12}, \frac{8}{51} \sqrt{7}e^{34}, \frac{8}{51} \sqrt{7}e^{35},$ $\frac{2}{51} \sqrt{91}e^{13} + \frac{2}{51} \sqrt{42}e^{26}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{2}{51} \sqrt{161}e^4 \otimes e_8 + \frac{2}{51} \sqrt{161}e^5 \otimes e_7$	{123459, 123789, 134569, 136789, 23456, 23678, 345, 378}
941:37	$0, 0, 0, 0, 0, \frac{2}{51} \sqrt{42}e^{12}, \frac{8}{51} \sqrt{7}e^{34}, \frac{8}{51} \sqrt{7}e^{35},$ $\frac{2}{51} \sqrt{91}e^{13} + \frac{2}{51} \sqrt{42}e^{26}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{2}{51} \sqrt{161}e^4 \otimes e_8 - \frac{2}{51} \sqrt{161}e^5 \otimes e_7$	{123459, 123789, 134569, 136789, 23456, 23678, 345, 378}
941:37	$0, 0, 0, 0, 0, \frac{4}{169} \sqrt{70}e^{12}, \frac{2}{169} \sqrt{1245}e^{34}, \frac{2}{169} \sqrt{695}e^{35},$ $\frac{2}{169} \sqrt{1185}e^{13} + \frac{40}{169} e^{26}$	$(-\frac{112}{845}, \frac{9}{169}, \frac{18}{169}, \frac{228}{845}, -\frac{32}{169}, -\frac{67}{845}, \frac{318}{845}, -\frac{14}{169}, -\frac{22}{845})$ $+ \frac{4}{169} \sqrt{510}e^4 \otimes e_9 + \frac{8}{169} \sqrt{115}e^3 \otimes e_5$	{12346, 134, 2379, 3679}
941:37	$0, 0, 0, 0, 0, \frac{15}{1723} \sqrt{386}e^{12}, \frac{10}{1723} \sqrt{267}e^{34}, \frac{5}{1723} \sqrt{4278}e^{35},$ $\frac{90}{1723} \sqrt{11}e^{13} + \frac{15}{1723} \sqrt{386}e^{26}$	$(\frac{185}{1723}, -\frac{15}{1723}, -\frac{30}{1723}, -\frac{105}{1723}, -\frac{60}{1723}, \frac{170}{1723}, -\frac{135}{1723}, -\frac{90}{1723}, \frac{155}{1723})$ $+ \frac{15}{1723} \sqrt{322}e^5 \otimes e_7 + \frac{5}{1723} \sqrt{582}e^3 \otimes e_4 + \frac{135}{1723} \sqrt{5838}e^2 \otimes e_8$	{136789, 378}
941:37	$0, 0, 0, 0, 0, \frac{4}{209} \sqrt{339}e^{12}, \frac{2}{209} \sqrt{3503}e^{34}, \frac{2}{209} \sqrt{6441}e^{35},$ $\frac{2}{209} \sqrt{7797}e^{13} + \frac{4}{209} \sqrt{339}e^{26}$	$(-\frac{24}{209}, \frac{3}{11}, \frac{6}{11}, -\frac{112}{209}, -\frac{24}{209}, \frac{3}{209}, \frac{2}{209}, \frac{90}{209}, \frac{90}{209})$ $+ \frac{8}{209} \sqrt{1243}e^3 \otimes e_4$	{1245689, 12469, 14589, 149, 24, 2458, 4568, 46}
941:37	$0, 0, 0, 0, 0, \frac{2}{51} \sqrt{42}e^{12}, \frac{8}{51} \sqrt{7}e^{34}, \frac{14}{51} e^{35},$ $\frac{2}{51} \sqrt{70}e^{13} + \frac{2}{51} \sqrt{42}e^{26}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{2}{51} \sqrt{161}e^1 \otimes e_7 - \frac{2}{51} \sqrt{161}e^4 \otimes e_9$	{1259, 1289, 1569, 1689, 24567, 24678, 457, 478}
941:37	$0, 0, 0, 0, 0, \frac{2}{51} \sqrt{42}e^{12}, \frac{8}{51} \sqrt{7}e^{34}, \frac{14}{51} e^{35},$ $\frac{2}{51} \sqrt{70}e^{13} + \frac{2}{51} \sqrt{42}e^{26}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{2}{51} \sqrt{161}e^1 \otimes e_7 + \frac{2}{51} \sqrt{161}e^4 \otimes e_9$	{1259, 1289, 1569, 1689, 24567, 24678, 457, 478}
941:37	$0, 0, 0, 0, 0, \frac{3}{5501} \sqrt{2498}e^{12}, \frac{6}{5501} \sqrt{173}e^{34}, \frac{6}{5501} \sqrt{1085}e^{35},$ $\frac{3}{5501} \sqrt{1326}e^{13} + \frac{6}{5501} \sqrt{901}e^{26}$	$(-\frac{117}{5501}, \frac{33}{5501}, \frac{66}{5501}, \frac{57}{5501}, -\frac{42}{5501}, -\frac{84}{5501}, \frac{123}{5501}, \frac{24}{5501}, -\frac{51}{5501})$ $+ \frac{3}{5501} \sqrt{3318}e^5 \otimes e_9 + \frac{3}{5501} \sqrt{5230}e^2 \otimes e_8 + \frac{6}{5501} \sqrt{379}e^3 \otimes e_4$	{13689, 2356}
941:37	$0, 0, 0, 0, 0, \frac{1}{5} e^{12}, \frac{1}{10} \sqrt{2}e^{34}, \frac{1}{5} \sqrt{3}e^{35}, \frac{1}{10} \sqrt{6}e^{13} + \frac{1}{10} e^{26}$	$(\frac{1}{5}, 0, 0, -\frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{10} \sqrt{13}e^3 \otimes e_4 + \frac{1}{10} \sqrt{15}e^1 \otimes e_8 + \frac{3}{10} e^5 \otimes e_7$	{1235, 1356}
941:37	$0, 0, 0, 0, 0, \frac{38}{3293} \sqrt{38}e^{12}, \frac{494}{3293} e^{34}, \frac{114}{3293} \sqrt{69}e^{35},$ $\frac{38}{3293} \sqrt{869}e^{13} + \frac{532}{3293} e^{26}$	$(\frac{76}{3293}, \frac{19}{3293}, \frac{38}{3293}, -\frac{684}{3293}, \frac{836}{3293}, \frac{95}{3293}, -\frac{646}{3293}, \frac{874}{3293}, \frac{114}{3293})$ $+ \frac{38}{3293} \sqrt{1106}e^3 \otimes e_4 + \frac{38}{3293} \sqrt{730}e^1 \otimes e_7 + \frac{76}{3293} \sqrt{301}e^5 \otimes e_9$	{1249, 1469}
941:37	$0, 0, 0, 0, 0, \frac{8}{113} \sqrt{57}e^{12}, \frac{2}{113} \sqrt{1995}e^{34}, \frac{2}{113} \sqrt{1995}e^{35},$ $\frac{18}{113} \sqrt{19}e^{13} + \frac{8}{113} \sqrt{57}e^{26}$	$(\frac{32}{113}, -\frac{11}{113}, -\frac{22}{113}, \frac{78}{113}, -\frac{14}{113}, \frac{21}{113}, \frac{56}{113}, -\frac{36}{113}, \frac{10}{113})$ $+ \frac{4}{113} \sqrt{1311}e^4 \otimes e_8$	{123459, 123789, 134569, 136789, 23456, 23678, 345, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:37	$0, 0, 0, 0, 0, \frac{4}{1115}\sqrt{1794}e^{12}, \frac{2}{1115}\sqrt{97773}e^{34}, \frac{2}{1115}\sqrt{24817}e^{35},$ $\frac{2}{1115}\sqrt{15249}e^{13} + \frac{4}{1115}\sqrt{1794}e^{26}$	$(\frac{48}{1115}, \frac{15}{223}, \frac{30}{223}, \frac{60}{223}, -\frac{448}{1115}, \frac{123}{1115}, \frac{90}{223}, -\frac{298}{1115}, \frac{198}{1115})$ $+ \frac{12}{1115}\sqrt{4186}e^4 \otimes e_8 + \frac{4}{1115}\sqrt{36478}e^3 \otimes e_5$	{12589, 15689, 2568, 58}
941:37	$0, 0, 0, 0, 0, \frac{20}{2191}\sqrt{1705}e^{12}, \frac{44}{2191}\sqrt{105}e^{34}, \frac{4}{2191}\sqrt{38390}e^{35},$ $\frac{4}{2191}\sqrt{34430}e^{13} + \frac{4}{2191}\sqrt{51645}e^{26}$	$(\frac{124}{2191}, -\frac{15}{2191}, -\frac{30}{2191}, \frac{534}{2191}, -\frac{425}{2191}, \frac{109}{2191}, \frac{72}{313}, -\frac{65}{313}, \frac{94}{2191})$ $+ \frac{4}{2191}\sqrt{78430}e^2 \otimes e_8 + \frac{8}{2191}\sqrt{6765}e^4 \otimes e_9$	{123579, 136789, 23456, 348}
941:37	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5}e^{12}, \frac{1}{25}\sqrt{70}e^{34}, \frac{1}{25}\sqrt{30}e^{35},$ $\frac{2}{25}\sqrt{15}e^{13} + \frac{2}{5}e^{26}$	$(\frac{1}{25}, 0, 0, -\frac{1}{5}, \frac{6}{25}, \frac{1}{25}, -\frac{1}{5}, \frac{6}{25}, \frac{1}{25})$ $+ \frac{1}{25}\sqrt{10}e^3 \otimes e_4 + \frac{1}{5}\sqrt{6}e^2 \otimes e_7 + \frac{2}{25}\sqrt{15}e^5 \otimes e_9$	{136789, 357}
941:37	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{28}\sqrt{70}e^{34}, \frac{1}{28}\sqrt{42}e^{35},$ $\frac{1}{28}\sqrt{210}e^{13} + \frac{1}{28}\sqrt{42}e^{26}$	$(\frac{3}{14}, \frac{3}{56}, \frac{3}{28}, -\frac{11}{28}, \frac{3}{56}, \frac{15}{56}, -\frac{2}{7}, \frac{9}{56}, \frac{9}{28})$ $+ \frac{1}{28}\sqrt{322}e^3 \otimes e_4 + \frac{3}{28}\sqrt{42}e^1 \otimes e_7$	{235679, 236789, 3579, 3789}
941:37	$0, 0, 0, 0, 0, \frac{4}{1207}\sqrt{3190}e^{12}, \frac{2}{1207}\sqrt{14790}e^{34}, \frac{4}{1207}\sqrt{1073}e^{35},$ $\frac{4}{1207}\sqrt{13659}e^{13} + \frac{4}{1207}\sqrt{3190}e^{26}$	$(\frac{156}{1207}, -\frac{31}{1207}, -\frac{62}{1207}, -\frac{27}{1207}, -\frac{23}{1207}, \frac{125}{1207}, -\frac{89}{1207}, -\frac{5}{71}, \frac{94}{1207})$ $+ \frac{2}{1207}\sqrt{10382}e^4 \otimes e_8 + \frac{4}{1207}\sqrt{5249}e^2 \otimes e_7$	{123459, 136789, 23456, 378}
941:37	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{2}e^{12}, \frac{6}{53}e^{34}, \frac{8}{53}e^{35}, \frac{2}{53}\sqrt{14}e^{13} + \frac{2}{53}\sqrt{2}e^{26}$	$(\frac{4}{53}, -\frac{1}{53}, -\frac{2}{53}, -\frac{4}{53}, \frac{4}{53}, \frac{3}{53}, -\frac{6}{53}, \frac{2}{53}, \frac{2}{53})$ $+ \frac{2}{53}\sqrt{17}e^1 \otimes e_8 + \frac{2}{53}\sqrt{17}e^5 \otimes e_9 + \frac{8}{53}e^3 \otimes e_4$	{1249, 1469, 24568, 458}
941:37	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{2}e^{12}, \frac{6}{53}e^{34}, \frac{8}{53}e^{35}, \frac{2}{53}\sqrt{14}e^{13} + \frac{2}{53}\sqrt{2}e^{26}$	$(\frac{4}{53}, -\frac{1}{53}, -\frac{2}{53}, -\frac{4}{53}, \frac{4}{53}, \frac{3}{53}, -\frac{6}{53}, \frac{2}{53}, \frac{2}{53})$ $+ \frac{2}{53}\sqrt{17}e^1 \otimes e_8 - \frac{2}{53}\sqrt{17}e^5 \otimes e_9 + \frac{8}{53}e^3 \otimes e_4$	{1249, 1469, 24568, 458}
941:38	$0, 0, 0, 0, 0, \frac{2}{191}\sqrt{69}e^{12}, \frac{2}{191}\sqrt{1311}e^{34}, \frac{3}{191}\sqrt{782}e^{35},$ $\frac{2}{191}\sqrt{897}e^{14} + \frac{2}{191}\sqrt{69}e^{26}$	$(-\frac{4}{191}, \frac{24}{191}, -\frac{69}{191}, \frac{48}{191}, \frac{48}{191}, \frac{20}{191}, -\frac{21}{191}, -\frac{21}{191}, \frac{44}{191})$ $+ \frac{1}{191}\sqrt{10902}e^5 \otimes e_7 + \frac{46}{191}\sqrt{6}e^4 \otimes e_8$	{1236789, 125689, 13789, 1589, 2378, 258, 3678, 568}
941:38	$0, 0, 0, 0, 0, \frac{2}{191}\sqrt{69}e^{12}, \frac{2}{191}\sqrt{1311}e^{34}, \frac{3}{191}\sqrt{782}e^{35},$ $\frac{2}{191}\sqrt{897}e^{14} + \frac{2}{191}\sqrt{69}e^{26}$	$(-\frac{4}{191}, \frac{24}{191}, -\frac{69}{191}, \frac{48}{191}, \frac{48}{191}, \frac{20}{191}, \frac{21}{191}, -\frac{21}{191}, \frac{44}{191})$ $- \frac{1}{191}\sqrt{10902}e^5 \otimes e_7 + \frac{46}{191}\sqrt{6}e^4 \otimes e_8$	{1236789, 125689, 13789, 1589, 2378, 258, 3678, 568}
941:38	$0, 0, 0, 0, 0, \frac{24}{865}\sqrt{11}e^{12}, \frac{2}{865}\sqrt{6699}e^{34}, \frac{4}{865}\sqrt{2937}e^{35},$ $\frac{36}{865}\sqrt{33}e^{14} + \frac{24}{865}\sqrt{11}e^{26}$	$(\frac{96}{865}, -\frac{5}{173}, -\frac{82}{865}, -\frac{10}{173}, \frac{112}{865}, \frac{71}{865}, -\frac{132}{865}, \frac{6}{173}, \frac{46}{865})$ $+ \frac{2}{865}\sqrt{13101}e^1 \otimes e_8 + \frac{2}{865}\sqrt{13101}e^5 \otimes e_9$	{1279, 1679, 25678, 578}
941:38	$0, 0, 0, 0, 0, \frac{1}{1161}\sqrt{12558}e^{12}, \frac{35}{1161}\sqrt{138}e^{34}, \frac{1}{1161}\sqrt{192878}e^{35},$ $\frac{2}{1161}\sqrt{11914}e^{14} + \frac{2}{1161}\sqrt{34615}e^{26}$	$(\frac{13}{387}, -\frac{34}{387}, \frac{157}{1161}, -\frac{68}{387}, \frac{275}{1161}, -\frac{7}{129}, -\frac{47}{1161}, \frac{16}{43}, -\frac{55}{387})$ $+ \frac{23}{1161}\sqrt{714}e^3 \otimes e_9 + \frac{2}{1161}\sqrt{71162}e^5 \otimes e_7$	{12589, 15689, 23678, 378}
941:38	$0, 0, 0, 0, 0, \frac{2}{469}\sqrt{12882}e^{12}, \frac{1}{469}\sqrt{56274}e^{34}, \frac{3}{469}\sqrt{1582}e^{35},$ $\frac{1}{469}\sqrt{48590}e^{14} + \frac{2}{469}\sqrt{12882}e^{26}$	$(\frac{47}{469}, \frac{13}{469}, -\frac{18}{67}, \frac{26}{469}, \frac{123}{469}, \frac{60}{469}, -\frac{100}{469}, -\frac{3}{469}, \frac{73}{469})$ $+ \frac{1}{469}\sqrt{92434}e^2 \otimes e_7$	{1234589, 12349, 145679, 146789, 234568, 2346, 457, 478}
941:38	$0, 0, 0, 0, 0, \frac{6}{527}\sqrt{519}e^{12}, \frac{1}{527}\sqrt{39098}e^{34}, \frac{2}{527}\sqrt{5190}e^{35},$ $\frac{16}{527}\sqrt{173}e^{14} + \frac{2}{527}\sqrt{519}e^{26}$	$(\frac{108}{527}, \frac{26}{527}, -\frac{117}{527}, \frac{52}{527}, -\frac{4}{527}, \frac{134}{527}, -\frac{65}{527}, -\frac{121}{527}, \frac{160}{527})$ $+ \frac{1}{527}\sqrt{82002}e^4 \otimes e_8 + \frac{6}{527}\sqrt{2249}e^1 \otimes e_7$	{12345, 13456, 24679, 479}
941:38	$0, 0, 0, 0, 0, \frac{1}{323}\sqrt{498}e^{12}, \frac{18}{323}\sqrt{83}e^{34}, \frac{1}{323}\sqrt{13114}e^{35},$ $\frac{9}{323}\sqrt{166}e^{14} + \frac{1}{323}\sqrt{498}e^{26}$	$(-\frac{3}{323}, \frac{39}{323}, \frac{39}{323}, \frac{78}{323}, -\frac{127}{323}, \frac{36}{323}, \frac{117}{323}, -\frac{88}{323}, \frac{75}{323})$ $+ \frac{1}{323}\sqrt{41002}e^3 \otimes e_5 + \frac{1}{323}\sqrt{54282}e^4 \otimes e_8$	{1236789, 125689, 13789, 1589, 2378, 258, 3678, 568}
941:38	$0, 0, 0, 0, 0, \frac{1}{323}\sqrt{498}e^{12}, \frac{18}{323}\sqrt{83}e^{34}, \frac{1}{323}\sqrt{13114}e^{35},$ $\frac{9}{323}\sqrt{166}e^{14} + \frac{1}{323}\sqrt{498}e^{26}$	$(-\frac{3}{323}, \frac{39}{323}, \frac{39}{323}, \frac{78}{323}, -\frac{127}{323}, \frac{36}{323}, \frac{117}{323}, -\frac{88}{323}, \frac{75}{323})$ $+ \frac{1}{323}\sqrt{41002}e^3 \otimes e_5 - \frac{1}{323}\sqrt{54282}e^4 \otimes e_8$	{1236789, 125689, 13789, 1589, 2378, 258, 3678, 568}
941:38	$0, 0, 0, 0, 0, \frac{7}{955}\sqrt{14}e^{12}, \frac{42}{955}\sqrt{3}e^{34}, \frac{7}{955}\sqrt{958}e^{35},$ $\frac{7}{955}\sqrt{1190}e^{14} + \frac{14}{955}\sqrt{39}e^{26}$	$(-\frac{7}{955}, \frac{42}{955}, -\frac{189}{955}, \frac{84}{955}, \frac{35}{191}, \frac{7}{191}, -\frac{21}{191}, -\frac{14}{955}, \frac{77}{955})$ $+ \frac{14}{955}\sqrt{331}e^4 \otimes e_8 - \frac{14}{955}\sqrt{337}e^5 \otimes e_9 + \frac{7}{955}\sqrt{838}e^1 \otimes e_7$	{123456, 1345, 2479, 4679}
941:38	$0, 0, 0, 0, 0, \frac{7}{955}\sqrt{14}e^{12}, \frac{42}{955}\sqrt{3}e^{34}, \frac{7}{955}\sqrt{958}e^{35},$ $\frac{7}{955}\sqrt{1190}e^{14} + \frac{14}{955}\sqrt{39}e^{26}$	$(-\frac{7}{955}, \frac{42}{955}, -\frac{189}{955}, \frac{84}{955}, \frac{35}{191}, \frac{7}{191}, -\frac{21}{191}, -\frac{14}{955}, \frac{77}{955})$ $+ \frac{14}{955}\sqrt{331}e^4 \otimes e_8 + \frac{14}{955}\sqrt{337}e^5 \otimes e_9 + \frac{7}{955}\sqrt{838}e^1 \otimes e_7$	{123456, 1345, 2479, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:38	$0, 0, 0, 0, 0, \frac{1}{244}\sqrt{2730}e^{12}, \frac{1}{244}\sqrt{1066}e^{34}, \frac{1}{244}\sqrt{3874}e^{35},$ $\frac{1}{122}\sqrt{143}e^{14} + \frac{1}{122}\sqrt{1105}e^{26}$	$(-\frac{7}{122}, \frac{9}{244}, \frac{15}{122}, \frac{9}{122}, -\frac{47}{244}, -\frac{5}{244}, \frac{12}{61}, -\frac{17}{244}, \frac{1}{61})$ $+ \frac{13}{244}\sqrt{30}e^3 \otimes e_9 + \frac{1}{122}\sqrt{1547}e^2 \otimes e_8$	{12479, 1456789, 23456, 348}
941:38	$0, 0, 0, 0, 0, \frac{5}{359}\sqrt{146}e^{12}, \frac{5}{359}\sqrt{26}e^{34}, \frac{5}{359}\sqrt{214}e^{35},$ $\frac{5}{359}\sqrt{34}e^{14} + \frac{5}{359}\sqrt{194}e^{26}$	$(-\frac{5}{359}, \frac{15}{359}, -\frac{60}{359}, \frac{30}{359}, \frac{50}{359}, \frac{10}{359}, -\frac{30}{359}, -\frac{10}{359}, \frac{25}{359})$ $+ \frac{5}{359}\sqrt{102}e^1 \otimes e_7 + \frac{5}{359}\sqrt{246}e^5 \otimes e_9 + \frac{5}{359}\sqrt{302}e^2 \otimes e_8$	{13689, 578}
941:38	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{23}e^{12}, \frac{2}{21}\sqrt{69}e^{34}, \frac{1}{21}\sqrt{230}e^{35},$ $\frac{2}{21}\sqrt{23}e^{14} + \frac{2}{21}\sqrt{23}e^{26}$	$(\frac{4}{21}, 0, -\frac{1}{3}, 0, \frac{16}{21}, \frac{4}{21}, -\frac{1}{3}, \frac{3}{7}, \frac{4}{21})$ $+ \frac{1}{21}\sqrt{782}e^5 \otimes e_7$	{123459, 12479, 134569, 14679, 23456, 2467, 345, 47}
941:38	$0, 0, 0, 0, 0, \frac{12}{745}\sqrt{3}e^{12}, \frac{3}{149}\sqrt{11}e^{34}, \frac{27}{745}\sqrt{5}e^{35},$ $\frac{6}{745}\sqrt{65}e^{14} + \frac{3}{745}\sqrt{134}e^{26}$	$(-\frac{48}{745}, \frac{3}{149}, -\frac{9}{745}, \frac{6}{149}, \frac{6}{149}, -\frac{33}{745}, \frac{21}{745}, \frac{21}{745}, -\frac{18}{745})$ $+ \frac{3}{745}\sqrt{349}e^5 \otimes e_7 + \frac{3}{745}\sqrt{479}e^4 \otimes e_8 + \frac{3}{745}\sqrt{546}e^3 \otimes e_9$	{123456, 1345, 2479, 4679}
941:38	$0, 0, 0, 0, 0, \frac{12}{745}\sqrt{3}e^{12}, \frac{3}{149}\sqrt{11}e^{34}, \frac{27}{745}\sqrt{5}e^{35},$ $\frac{6}{745}\sqrt{65}e^{14} + \frac{3}{745}\sqrt{134}e^{26}$	$(-\frac{48}{745}, \frac{3}{149}, -\frac{9}{745}, \frac{6}{149}, \frac{6}{149}, -\frac{33}{745}, \frac{21}{745}, \frac{21}{745}, -\frac{18}{745})$ $- \frac{3}{745}\sqrt{349}e^5 \otimes e_7 + \frac{3}{745}\sqrt{479}e^4 \otimes e_8 + \frac{3}{745}\sqrt{546}e^3 \otimes e_9$	{123456, 1345, 2479, 4679}
941:38	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{17430}e^{12}, \frac{2}{181}\sqrt{4565}e^{34}, \frac{1}{181}\sqrt{2490}e^{35},$ $\frac{1}{181}\sqrt{7802}e^{14} + \frac{2}{181}\sqrt{249}e^{26}$	$(\frac{105}{181}, -\frac{23}{181}, -\frac{15}{181}, -\frac{46}{181}, \frac{40}{181}, \frac{82}{181}, -\frac{61}{181}, \frac{25}{181}, \frac{59}{181})$ $+ \frac{3}{181}\sqrt{5478}e^1 \otimes e_7$	{1259, 1289, 1569, 1689, 235678, 2367, 3578, 37}
941:38	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{6}e^{12}, \frac{1}{91}\sqrt{570}e^{34}, \frac{3}{91}\sqrt{70}e^{35},$ $\frac{1}{91}\sqrt{730}e^{14} + \frac{1}{91}\sqrt{6}e^{26}$	$(\frac{11}{91}, -\frac{5}{91}, 0, -\frac{10}{91}, \frac{6}{91}, \frac{6}{91}, -\frac{10}{91}, \frac{6}{91}, \frac{1}{91})$ $+ \frac{1}{91}\sqrt{410}e^2 \otimes e_7 + \frac{3}{91}\sqrt{70}e^1 \otimes e_8 + \frac{3}{91}\sqrt{70}e^5 \otimes e_9$	{12679, 2578}
941:38	$0, 0, 0, 0, 0, \frac{3}{1201}\sqrt{2670}e^{12}, \frac{1}{1201}\sqrt{63902}e^{34}, \frac{1}{1201}\sqrt{121218}e^{35},$ $\frac{2}{1201}\sqrt{28658}e^{14} + \frac{2}{1201}\sqrt{10947}e^{26}$	$(-\frac{135}{1201}, \frac{64}{1201}, \frac{171}{1201}, \frac{128}{1201}, -\frac{221}{1201}, -\frac{71}{1201}, \frac{299}{1201}, -\frac{50}{1201}, -\frac{7}{1201})$ $+ \frac{2}{1201}\sqrt{45390}e^4 \otimes e_8 + \frac{3}{1201}\sqrt{22606}e^3 \otimes e_9$	{123456, 1345, 2479, 4679}
941:38	$0, 0, 0, 0, 0, \frac{1}{1415}\sqrt{181382}e^{12}, \frac{1}{1415}\sqrt{564526}e^{34}, \frac{2}{1415}\sqrt{287358}e^{35},$ $\frac{1}{1415}\sqrt{1000658}e^{14} + \frac{2}{1415}\sqrt{156926}e^{26}$	$(-\frac{178}{1415}, \frac{1}{283}, -\frac{63}{1415}, \frac{2}{283}, \frac{851}{1415}, -\frac{173}{1415}, -\frac{53}{1415}, \frac{788}{1415}, -\frac{168}{1415})$ $+ \frac{1}{1415}\sqrt{2427258}e^5 \otimes e_9$	{1234567, 124568, 13457, 1458, 234789, 249, 346789, 469}
941:38	$0, 0, 0, 0, 0, \frac{3}{667}\sqrt{1162}e^{12}, \frac{1}{667}\sqrt{14322}e^{34}, \frac{1}{667}\sqrt{3990}e^{35},$ $\frac{3}{667}\sqrt{1218}e^{14} + \frac{1}{667}\sqrt{1162}e^{26}$	$(\frac{68}{667}, -\frac{12}{667}, -\frac{9}{667}, -\frac{24}{667}, -\frac{30}{667}, \frac{56}{667}, -\frac{33}{667}, -\frac{39}{667}, \frac{44}{667})$ $+ \frac{1}{667}\sqrt{7602}e^3 \otimes e_5 + \frac{2}{667}\sqrt{4515}e^2 \otimes e_7$	{12349, 145679, 2346, 457}
941:38	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{15295}e^{12}, \frac{2}{659}\sqrt{5957}e^{34}, \frac{1}{659}\sqrt{62790}e^{35},$ $\frac{42}{659}\sqrt{23}e^{14} + \frac{2}{659}\sqrt{15295}e^{26}$	$(\frac{12}{659}, \frac{64}{659}, -\frac{193}{659}, \frac{128}{659}, \frac{96}{659}, \frac{76}{659}, -\frac{65}{659}, -\frac{97}{659}, \frac{140}{659})$ $+ \frac{1}{659}\sqrt{69230}e^5 \otimes e_7 + \frac{92}{659}\sqrt{14}e^2 \otimes e_8$	{123459, 12479, 23456, 2467}
941:38	$0, 0, 0, 0, 0, \frac{8}{4291}\sqrt{9797}e^{12}, \frac{4}{4291}\sqrt{30199}e^{34}, \frac{12}{4291}\sqrt{17170}e^{35},$ $\frac{4}{4291}\sqrt{157055}e^{14} + \frac{4}{4291}\sqrt{31613}e^{26}$	$(-\frac{776}{4291}, \frac{466}{4291}, -\frac{120}{613}, \frac{932}{4291}, \frac{964}{4291}, -\frac{310}{4291}, \frac{92}{4291}, \frac{124}{4291}, \frac{156}{4291})$ $+ \frac{4}{4291}\sqrt{181497}e^4 \otimes e_8 + \frac{4}{4291}\sqrt{212403}e^5 \otimes e_9$	{1234567, 13457, 249, 469}
941:38	$0, 0, 0, 0, 0, \frac{1}{557}\sqrt{53743}e^{12}, \frac{1}{557}\sqrt{96882}e^{34}, \frac{1}{557}\sqrt{22895}e^{35},$ $\frac{1}{557}\sqrt{723}e^{14} + \frac{1}{557}\sqrt{9158}e^{26}$	$(\frac{223}{557}, -\frac{72}{557}, \frac{126}{557}, -\frac{144}{557}, -\frac{115}{557}, \frac{151}{557}, -\frac{18}{557}, \frac{11}{557}, \frac{79}{557})$ $+ \frac{1}{557}\sqrt{106522}e^3 \otimes e_5 + \frac{1}{557}\sqrt{133755}e^1 \otimes e_7$	{1259, 1569, 2367, 37}
941:38	$0, 0, 0, 0, 0, \frac{4}{1309}\sqrt{18705}e^{12}, \frac{2}{1309}\sqrt{77865}e^{34}, \frac{6}{1309}\sqrt{1015}e^{35},$ $\frac{4}{1309}\sqrt{15515}e^{14} + \frac{2}{1309}\sqrt{83955}e^{26}$	$(\frac{71}{1309}, \frac{25}{1309}, -\frac{45}{187}, \frac{50}{1309}, \frac{411}{1309}, \frac{96}{1309}, -\frac{265}{1309}, \frac{96}{1309}, \frac{11}{119})$ $+ \frac{62}{1309}\sqrt{145}e^2 \otimes e_7 + \frac{6}{1309}\sqrt{3045}e^5 \otimes e_9$	{12349, 146789, 234568, 457}
941:38	$0, 0, 0, 0, 0, \frac{1}{463}\sqrt{58038}e^{12}, \frac{3}{463}\sqrt{23898}e^{34}, \frac{1}{463}\sqrt{39830}e^{35},$ $\frac{1}{463}\sqrt{78522}e^{14} + \frac{1}{463}\sqrt{58038}e^{26}$	$(\frac{102}{463}, -\frac{18}{463}, \frac{309}{463}, -\frac{36}{463}, -\frac{260}{463}, \frac{84}{463}, \frac{273}{463}, \frac{49}{463}, \frac{66}{463})$ $+ \frac{1}{463}\sqrt{431302}e^3 \otimes e_5$	{12349, 124579, 13469, 145679, 2346, 24567, 34, 457}
941:38	$0, 0, 0, 0, 0, \frac{1}{487}\sqrt{8463}e^{12}, \frac{5}{487}\sqrt{93}e^{34}, \frac{3}{487}\sqrt{3441}e^{35},$ $\frac{1}{487}\sqrt{25482}e^{14} + \frac{1}{487}\sqrt{7998}e^{26}$	$(\frac{91}{487}, -\frac{36}{487}, \frac{112}{487}, -\frac{72}{487}, -\frac{114}{487}, \frac{55}{487}, \frac{40}{487}, -\frac{2}{487}, \frac{19}{487})$ $+ \frac{1}{487}\sqrt{39711}e^3 \otimes e_9 + \frac{1}{487}\sqrt{41106}e^1 \otimes e_8$	{1279, 1679, 2368, 38}
941:38	$0, 0, 0, 0, 0, \frac{4}{91}\sqrt{21}e^{12}, \frac{2}{91}\sqrt{105}e^{34}, \frac{2}{91}\sqrt{105}e^{35},$ $\frac{4}{91}\sqrt{7}e^{14} + \frac{2}{13}\sqrt{3}e^{26}$	$(-\frac{1}{13}, \frac{1}{13}, -\frac{3}{13}, \frac{2}{13}, \frac{3}{13}, 0, -\frac{1}{13}, 0, \frac{1}{13})$ $+ \frac{2}{91}\sqrt{217}e^2 \otimes e_7 + \frac{4}{91}\sqrt{42}e^4 \otimes e_8 + \frac{6}{91}\sqrt{21}e^5 \otimes e_9$	{136789, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:38	$0, 0, 0, 0, 0, \frac{1}{173}\sqrt{7370}e^{12}, \frac{1}{173}\sqrt{3082}e^{34}, \frac{1}{173}\sqrt{4690}e^{35},$ $\frac{1}{173}\sqrt{4958}e^{14} + \frac{1}{173}\sqrt{7370}e^{26}$	$(\frac{4}{173}, \frac{18}{173}, \frac{9}{173}, \frac{36}{173}, -\frac{58}{173}, \frac{22}{173}, \frac{45}{173}, -\frac{49}{173}, \frac{40}{173})$ $+ \frac{2}{173}\sqrt{3551}e^2 \otimes e_8 + \frac{3}{173}\sqrt{670}e^3 \otimes e_5$	{134689, 1456789, 348, 4578}
941:38	$0, 0, 0, 0, 0, \frac{20}{301}\sqrt{39}e^{12}, \frac{1}{301}\sqrt{18330}e^{34}, \frac{1}{301}\sqrt{2730}e^{35},$ $\frac{1}{301}\sqrt{13130}e^{14} + \frac{20}{301}\sqrt{39}e^{26}$	$(\frac{17}{301}, \frac{19}{301}, -\frac{12}{43}, \frac{38}{301}, \frac{57}{301}, \frac{36}{301}, -\frac{46}{301}, -\frac{27}{301}, \frac{55}{301})$ $+ \frac{1}{301}\sqrt{28990}e^2 \otimes e_7 + \frac{2}{301}\sqrt{1365}e^4 \otimes e_8$	{12349, 145679, 2346, 457}
941:38	$0, 0, 0, 0, 0, \frac{2}{1415}\sqrt{156926}e^{12}, \frac{1}{1415}\sqrt{564526}e^{34}, \frac{2}{1415}\sqrt{287358}e^{35},$ $\frac{1}{1415}\sqrt{1000658}e^{14} + \frac{1}{1415}\sqrt{181382}e^{26}$	$(\frac{616}{1415}, \frac{1}{283}, -\frac{63}{1415}, \frac{2}{283}, -\frac{68}{283}, \frac{621}{1415}, -\frac{53}{1415}, -\frac{403}{1415}, \frac{626}{1415})$ $+ \frac{1}{1415}\sqrt{2427258}e^1 \otimes e_8$	{123457, 124, 134567, 146, 2346789, 245689, 34789, 4589}
941:38	$0, 0, 0, 0, 0, \frac{6}{373}\sqrt{255}e^{12}, \frac{3}{373}\sqrt{170}e^{34}, \frac{15}{373}\sqrt{102}e^{35},$ $\frac{42}{373}\sqrt{17}e^{14} + \frac{6}{373}\sqrt{374}e^{26}$	$(\frac{60}{373}, -\frac{29}{373}, -\frac{35}{373}, -\frac{58}{373}, \frac{155}{373}, \frac{31}{373}, -\frac{93}{373}, \frac{120}{373}, \frac{2}{373})$ $+ \frac{3}{373}\sqrt{4862}e^1 \otimes e_7 + \frac{3}{373}\sqrt{6290}e^5 \otimes e_9$	{129, 169, 23567, 357}
941:38	$0, 0, 0, 0, 0, \frac{1}{1145}\sqrt{798}e^{12}, \frac{1}{1145}\sqrt{602}e^{34}, \frac{1}{1145}\sqrt{1326}e^{35},$ $\frac{2}{1145}\sqrt{66}e^{14} + \frac{1}{1145}\sqrt{323}e^{26}$	$(-\frac{29}{1145}, \frac{2}{229}, -\frac{7}{1145}, \frac{4}{229}, \frac{3}{229}, -\frac{19}{1145}, \frac{13}{1145}, \frac{8}{1145}, -\frac{9}{1145})$ $+ \frac{1}{1145}\sqrt{1482}e^3 \otimes e_9 + \frac{22}{1145}\sqrt{2}e^5 \otimes e_7 + \frac{1}{1145}\sqrt{107}e^2 \otimes e_8$	{12479, 23456}
941:38	$0, 0, 0, 0, 0, \frac{2}{1827}\sqrt{101959}e^{12}, \frac{4}{1827}\sqrt{2139}e^{34}, \frac{1}{1827}\sqrt{879842}e^{35},$ $\frac{2}{1827}\sqrt{112654}e^{14} + \frac{2}{609}\sqrt{1426}e^{26}$	$(\frac{572}{1827}, \frac{2}{87}, -\frac{55}{261}, -\frac{4}{87}, \frac{244}{1827}, \frac{530}{1827}, -\frac{67}{261}, -\frac{47}{609}, \frac{488}{1827})$ $+ \frac{1}{1827}\sqrt{931178}e^5 \otimes e_7 + \frac{46}{1827}\sqrt{651}e^1 \otimes e_8$	{2346789, 245689, 34789, 4589}
941:38	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{2}e^{12}, \frac{2}{169}\sqrt{65}e^{34}, \frac{1}{169}\sqrt{1378}e^{35},$ $\frac{1}{169}\sqrt{806}e^{14} + \frac{1}{169}\sqrt{390}e^{26}$	$(\frac{2}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, 0, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+ \frac{1}{169}\sqrt{1430}e^1 \otimes e_8 + \frac{1}{169}\sqrt{1586}e^3 \otimes e_9 + \frac{2}{169}\sqrt{247}e^5 \otimes e_7$	{23678, 378}
941:38	$0, 0, 0, 0, 0, \frac{4}{475}\sqrt{1299}e^{12}, \frac{1}{475}\sqrt{52826}e^{34}, \frac{2}{475}\sqrt{29877}e^{35},$ $\frac{2}{475}\sqrt{33341}e^{14} + \frac{4}{475}\sqrt{1299}e^{26}$	$(-\frac{48}{475}, \frac{26}{95}, -\frac{117}{475}, \frac{52}{95}, -\frac{56}{475}, \frac{82}{475}, \frac{143}{475}, -\frac{173}{475}, \frac{212}{475})$ $+ \frac{1}{475}\sqrt{340338}e^4 \otimes e_8$	{1236789, 125689, 13789, 1589, 2378, 258, 3678, 568}
941:38	$0, 0, 0, 0, 0, \frac{2}{1309}\sqrt{83955}e^{12}, \frac{2}{1309}\sqrt{77865}e^{34}, \frac{6}{1309}\sqrt{1015}e^{35},$ $\frac{4}{1309}\sqrt{15515}e^{14} + \frac{4}{1309}\sqrt{18705}e^{26}$	$(\frac{197}{1309}, \frac{25}{1309}, -\frac{45}{187}, \frac{50}{1309}, \frac{222}{1309}, \frac{222}{1309}, \frac{265}{1309}, -\frac{93}{1309}, \frac{247}{1309})$ $+ \frac{62}{1309}\sqrt{145}e^2 \otimes e_7 + \frac{6}{1309}\sqrt{3045}e^1 \otimes e_8$	{12349, 145679, 234568, 478}
941:38	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{65}e^{12}, \frac{2}{49}\sqrt{13}e^{34}, \frac{8}{49}\sqrt{13}e^{35},$ $\frac{2}{49}\sqrt{143}e^{14} + \frac{4}{49}\sqrt{65}e^{26}$	$(-\frac{1}{49}, \frac{9}{49}, -\frac{9}{49}, \frac{18}{49}, -\frac{8}{49}, \frac{8}{49}, \frac{9}{49}, -\frac{17}{49}, \frac{17}{49})$ $+ \frac{2}{49}\sqrt{533}e^2 \otimes e_8$	{123459, 12479, 134689, 1456789, 23456, 2467, 348, 4578}
941:38	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{30}e^{12}, \frac{2}{21}\sqrt{15}e^{34}, \frac{1}{21}\sqrt{30}e^{35},$ $\frac{1}{21}\sqrt{42}e^{14} + \frac{2}{7}e^{26}$	$(\frac{5}{21}, -\frac{1}{7}, \frac{5}{21}, -\frac{2}{7}, 0, \frac{2}{21}, -\frac{1}{21}, \frac{5}{21}, -\frac{1}{21})$ $+ \frac{1}{21}\sqrt{102}e^1 \otimes e_7 - \frac{2}{21}\sqrt{30}e^3 \otimes e_9$	{12589, 129, 15689, 169, 23567, 23678, 357, 378}
941:38	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{30}e^{12}, \frac{2}{21}\sqrt{15}e^{34}, \frac{1}{21}\sqrt{30}e^{35},$ $\frac{1}{21}\sqrt{42}e^{14} + \frac{2}{7}e^{26}$	$(\frac{5}{21}, -\frac{1}{7}, \frac{5}{21}, -\frac{2}{7}, 0, \frac{2}{21}, -\frac{1}{21}, \frac{5}{21}, -\frac{1}{21})$ $+ \frac{1}{21}\sqrt{102}e^1 \otimes e_7 + \frac{2}{21}\sqrt{30}e^3 \otimes e_9$	{12589, 129, 15689, 169, 23567, 23678, 357, 378}
941:38	$0, 0, 0, 0, 0, \frac{1}{1313}\sqrt{346962}e^{12}, \frac{3}{1313}\sqrt{1502}e^{34}, \frac{1}{1313}\sqrt{476134}e^{35},$ $\frac{1}{1313}\sqrt{373998}e^{14} + \frac{3}{1313}\sqrt{4506}e^{26}$	$(\frac{462}{1313}, -\frac{36}{1313}, \frac{231}{1313}, -\frac{72}{1313}, -\frac{40}{101}, \frac{426}{1313}, \frac{159}{1313}, -\frac{289}{1313}, \frac{30}{101})$ $+ \frac{1}{1313}\sqrt{557242}e^3 \otimes e_5 + \frac{6}{1313}\sqrt{32293}e^1 \otimes e_8$	{2346789, 245689, 34789, 4589}
941:38	$0, 0, 0, 0, 0, \frac{2}{109}\sqrt{110}e^{12}, \frac{11}{109}\sqrt{2}e^{34}, \frac{4}{109}\sqrt{55}e^{35},$ $\frac{1}{109}\sqrt{22}e^{14} + \frac{1}{109}\sqrt{770}e^{26}$	$(-\frac{13}{109}, \frac{9}{109}, -\frac{18}{109}, \frac{18}{109}, \frac{16}{109}, -\frac{4}{109}, 0, -\frac{2}{109}, \frac{5}{109})$ $+ \frac{1}{109}\sqrt{1166}e^2 \otimes e_8 + \frac{3}{109}\sqrt{110}e^5 \otimes e_9$	{1279, 13689, 2356, 578}
941:38	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{2030}e^{12}, \frac{20}{199}\sqrt{7}e^{34}, \frac{2}{199}\sqrt{994}e^{35},$ $\frac{2}{199}\sqrt{518}e^{14} + \frac{20}{199}\sqrt{14}e^{26}$	$(\frac{38}{199}, \frac{9}{199}, -\frac{36}{199}, \frac{18}{199}, -\frac{11}{199}, \frac{47}{199}, -\frac{18}{199}, -\frac{47}{199}, \frac{56}{199})$ $+ \frac{4}{199}\sqrt{749}e^2 \otimes e_8 + \frac{6}{199}\sqrt{210}e^1 \otimes e_7$	{123459, 134689, 2467, 4578}
941:39	$0, 0, 0, 0, 0, \frac{2}{2929}\sqrt{721982}e^{12}, \frac{2}{2929}\sqrt{902091}e^{34},$ $\frac{2}{2929}\sqrt{98171}e^{13} + \frac{6}{2929}\sqrt{5411}e^{45}, \frac{2}{2929}\sqrt{885858}e^{16} + \frac{4}{2929}\sqrt{122907}e^{35}$	$(\frac{722}{2929}, -\frac{465}{2929}, -\frac{189}{2929}, -\frac{635}{2929}, \frac{1168}{2929}, \frac{257}{2929}, -\frac{824}{2929}, \frac{533}{2929}, \frac{979}{2929})$ $+ \frac{4}{2929}\sqrt{475395}e^1 \otimes e_7$	{1289, 1346, 24679, 378}
941:39	$0, 0, 0, 0, 0, \frac{2}{947}\sqrt{107070}e^{12}, \frac{2}{947}\sqrt{32785}e^{34},$ $\frac{2}{947}\sqrt{71795}e^{13} + \frac{30}{947}\sqrt{581}e^{45}, \frac{2}{947}\sqrt{10790}e^{16} + \frac{4}{947}\sqrt{9545}e^{35}$	$(-\frac{298}{947}, \frac{689}{947}, \frac{157}{947}, -\frac{77}{947}, -\frac{64}{947}, \frac{391}{947}, \frac{80}{947}, -\frac{141}{947}, \frac{93}{947})$ $+ \frac{4}{947}\sqrt{81755}e^2 \otimes e_8$	{1234579, 15678, 2679, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:39	$0, 0, 0, 0, 0, \frac{135}{563}\sqrt{3}e^{12}, \frac{54}{563}\sqrt{7}e^{34}, \frac{54}{563}\sqrt{3}e^{13} + \frac{9}{563}\sqrt{1011}e^{45},$ $\frac{9}{563}\sqrt{102}e^{16} + \frac{9}{563}\sqrt{201}e^{35}$	$(-\frac{45}{563}, \frac{207}{563}, \frac{9}{563}, -\frac{144}{563}, \frac{108}{563}, \frac{162}{563}, -\frac{135}{563}, -\frac{36}{563}, \frac{117}{563})$ $+ \frac{9}{563}\sqrt{1461}e^5 \otimes e_7 + \frac{9}{563}\sqrt{1518}e^2 \otimes e_8$	{23679, 478}
941:39	$0, 0, 0, 0, 0, \frac{11}{349}\sqrt{73}e^{12}, \frac{11}{349}\sqrt{155}e^{34}, \frac{22}{349}\sqrt{33}e^{13} + \frac{11}{349}\sqrt{155}e^{45},$ $\frac{33}{349}\sqrt{30}e^{16} + \frac{22}{349}\sqrt{5}e^{35}$	$(\frac{33}{349}, -\frac{88}{349}, \frac{22}{349}, \frac{99}{349}, -\frac{44}{349}, -\frac{55}{349}, \frac{121}{349}, \frac{55}{349}, -\frac{22}{349})$ $+ \frac{11}{349}\sqrt{190}e^1 \otimes e_2 + \frac{11}{349}\sqrt{421}e^4 \otimes e_9$	{23679, 25689}
941:39	$0, 0, 0, 0, 0, \frac{1}{684}\sqrt{46190}e^{12}, \frac{1}{684}\sqrt{745}e^{34}, \frac{1}{481}\sqrt{76735}e^{13} + \frac{1}{684}\sqrt{745}e^{45},$ $\frac{1}{684}\sqrt{284590}e^{16} + \frac{5}{684}\sqrt{5662}e^{35}$	$(\frac{53}{114}, -\frac{427}{684}, \frac{1}{456}, \frac{28}{171}, \frac{415}{1368}, -\frac{109}{684}, \frac{227}{1368}, \frac{71}{152}, \frac{11}{36})$ $+ \frac{1}{684}\sqrt{850790}e^1 \otimes e_2$	{13459, 14789, 2348, 2457}
941:39	$0, 0, 0, 0, 0, \frac{21}{962}\sqrt{122}e^{12}, \frac{49}{962}\sqrt{30}e^{34}, \frac{7}{481}\sqrt{353}e^{13} + \frac{7}{962}\sqrt{730}e^{45},$ $\frac{7}{481}\sqrt{305}e^{16} + \frac{7}{481}\sqrt{30}e^{35}$	$(-\frac{63}{481}, \frac{98}{481}, \frac{28}{481}, \frac{21}{481}, -\frac{56}{481}, \frac{35}{481}, \frac{49}{481}, -\frac{35}{481}, -\frac{28}{481})$ $+ \frac{7}{481}\sqrt{370}e^2 \otimes e_7 + \frac{7}{962}\sqrt{1966}e^4 \otimes e_9$	{25689, 478}
941:39	$0, 0, 0, 0, 0, \frac{2}{2877}\sqrt{1406522}e^{12}, \frac{4}{2877}\sqrt{40285}e^{34},$ $\frac{2}{2877}\sqrt{908139}e^{13} + \frac{16}{2877}\sqrt{1151}e^{45}, \frac{44}{2877}\sqrt{1151}e^{16} + \frac{2}{2877}\sqrt{204878}e^{35}$	$(-\frac{144}{959}, \frac{1655}{2877}, \frac{64}{959}, -\frac{839}{2877}, \frac{599}{2877}, \frac{1223}{2877}, -\frac{647}{2877}, -\frac{80}{959}, \frac{113}{411})$ $+ \frac{4}{2877}\sqrt{688298}e^2 \otimes e_7$	{129, 14567, 234569, 37}
941:39	$0, 0, 0, 0, 0, \frac{6}{37}\sqrt{7}e^{12}, \frac{12}{37}\sqrt{3}e^{34}, \frac{6}{37}\sqrt{15}e^{13} + \frac{12}{37}\sqrt{3}e^{45},$ $\frac{24}{37}e^{16} + \frac{12}{37}e^{35}$	$(-\frac{2}{37}, -\frac{1}{37}, \frac{5}{37}, \frac{13}{37}, \frac{10}{37}, -\frac{3}{37}, \frac{18}{37}, \frac{3}{37}, -\frac{5}{37})$ $+ \frac{6}{37}\sqrt{31}e^4 \otimes e_9$	{23679, 25689, 345, 478}
941:39	$0, 0, 0, 0, 0, \frac{2}{217}\sqrt{213}e^{12}, \frac{2}{217}\sqrt{319}e^{34}, \frac{2}{217}\sqrt{166}e^{13} + \frac{2}{217}\sqrt{129}e^{45},$ $\frac{2}{217}\sqrt{362}e^{16} + \frac{4}{217}\sqrt{13}e^{35}$	$(\frac{16}{217}, -\frac{30}{217}, -\frac{2}{217}, \frac{10}{217}, \frac{4}{217}, -\frac{2}{31}, \frac{8}{217}, \frac{2}{31}, \frac{2}{217})$ $+ \frac{2}{217}\sqrt{395}e^4 \otimes e_9 + \frac{4}{217}\sqrt{95}e^1 \otimes e_7$	{129, 13468}
941:39	$0, 0, 0, 0, 0, \frac{58}{1341}\sqrt{31}e^{12}, \frac{58}{1341}\sqrt{94}e^{34}, \frac{29}{1341}\sqrt{26}e^{13} + \frac{58}{1341}\sqrt{94}e^{45},$ $\frac{58}{1341}\sqrt{103}e^{16} + \frac{29}{1341}\sqrt{170}e^{35}$	$(\frac{145}{447}, -\frac{406}{1341}, -\frac{29}{447}, -\frac{203}{1341}, \frac{551}{1341}, \frac{29}{1341}, -\frac{290}{1341}, \frac{116}{447}, \frac{464}{1341})$ $+ \frac{29}{1341}\sqrt{1034}e^1 \otimes e_2 + \frac{29}{1341}\sqrt{1302}e^5 \otimes e_7$	{23679, 25689}
941:39	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{1}{34}\sqrt{115}e^{34}, \frac{1}{34}\sqrt{130}e^{13} + \frac{15}{34}e^{45},$ $\frac{1}{34}\sqrt{190}e^{16} + \frac{1}{17}\sqrt{5}e^{35}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{1}{17}, \frac{5}{17}, -\frac{1}{17}, -\frac{2}{17})$ $+ \frac{1}{17}\sqrt{55}e^2 \otimes e_8 + \frac{5}{34}\sqrt{15}e^4 \otimes e_9$	{23679, 478}
941:39	$0, 0, 0, 0, 0, \frac{38}{3461}\sqrt{1022}e^{12}, \frac{570}{3461}\sqrt{3}e^{34},$ $\frac{38}{3461}\sqrt{395}e^{13} + \frac{342}{3461}\sqrt{5}e^{45}, \frac{342}{3461}\sqrt{10}e^{16} + \frac{76}{3461}\sqrt{159}e^{35}$	$(-\frac{38}{3461}, \frac{627}{3461}, -\frac{57}{3461}, -\frac{703}{3461}, \frac{608}{3461}, \frac{589}{3461}, -\frac{760}{3461}, -\frac{95}{3461}, \frac{551}{3461})$ $+ \frac{76}{3461}\sqrt{318}e^2 \otimes e_8 + \frac{76}{3461}\sqrt{453}e^1 \otimes e_7$	{123459, 1568}
941:39	$0, 0, 0, 0, 0, \frac{2}{725}\sqrt{34662}e^{12}, \frac{4}{725}\sqrt{15369}e^{34},$ $\frac{18}{725}\sqrt{763}e^{13} + \frac{4}{725}\sqrt{15369}e^{45}, \frac{4}{725}\sqrt{4251}e^{16} + \frac{18}{725}\sqrt{654}e^{35}$	$(\frac{32}{145}, \frac{23}{725}, -\frac{32}{725}, -\frac{247}{725}, \frac{15}{29}, \frac{183}{725}, -\frac{279}{725}, \frac{128}{725}, \frac{343}{725})$ $+ \frac{4}{725}\sqrt{48723}e^5 \otimes e_7$	{23679, 25689, 345, 478}
941:39	$0, 0, 0, 0, 0, \frac{1}{298}\sqrt{182}e^{12}, \frac{1}{298}\sqrt{358}e^{34}, \frac{1}{149}\sqrt{109}e^{13} + \frac{1}{298}\sqrt{358}e^{45},$ $\frac{1}{149}e^{16} + \frac{7}{149}e^{35}$	$(\frac{5}{149}, -\frac{9}{149}, -\frac{1}{149}, \frac{2}{149}, \frac{2}{149}, -\frac{4}{149}, \frac{1}{149}, \frac{4}{149}, \frac{1}{149})$ $- \frac{1}{149}\sqrt{115}e^5 \otimes e_7 + \frac{1}{298}\sqrt{622}e^4 \otimes e_9$	{23679, 25689, 345, 478}
941:39	$0, 0, 0, 0, 0, \frac{1}{298}\sqrt{182}e^{12}, \frac{1}{298}\sqrt{358}e^{34}, \frac{1}{149}\sqrt{109}e^{13} + \frac{1}{298}\sqrt{358}e^{45},$ $\frac{1}{149}e^{16} + \frac{7}{149}e^{35}$	$(\frac{5}{149}, -\frac{9}{149}, -\frac{1}{149}, \frac{2}{149}, \frac{2}{149}, -\frac{4}{149}, \frac{1}{149}, \frac{4}{149}, \frac{1}{149})$ $+ \frac{1}{149}\sqrt{115}e^5 \otimes e_7 + \frac{1}{298}\sqrt{622}e^4 \otimes e_9$	{23679, 25689, 345, 478}
941:40	$0, 0, 0, 0, 0, \frac{1}{34}\sqrt{145}e^{12}, \frac{1}{17}\sqrt{5}e^{34}, \frac{1}{17}\sqrt{15}e^{13} + \frac{15}{34}e^{45},$ $\frac{1}{34}\sqrt{190}e^{16} + \frac{5}{34}\sqrt{3}e^{35}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{185}e^5 \otimes e_7 + \frac{1}{34}\sqrt{410}e^2 \otimes e_8$	{123459, 146789}
941:40	$0, 0, 0, 0, 0, \frac{2}{801}\sqrt{39785}e^{12}, \frac{28}{801}\sqrt{365}e^{34},$ $\frac{2}{801}\sqrt{69715}e^{13} + \frac{28}{801}\sqrt{365}e^{45}, \frac{4}{801}\sqrt{2190}e^{16} + \frac{8}{801}\sqrt{4745}e^{35}$	$(\frac{218}{801}, \frac{17}{267}, -\frac{77}{801}, -\frac{256}{801}, \frac{397}{801}, \frac{269}{801}, -\frac{37}{89}, \frac{47}{267}, \frac{320}{801})$ $+ \frac{10}{801}\sqrt{9709}e^5 \otimes e_7$	{23679, 25689, 379, 589}
941:40	$0, 0, 0, 0, 0, \frac{25}{123}\sqrt{3}e^{12}, \frac{25}{123}\sqrt{5}e^{34}, \frac{5}{123}\sqrt{10}e^{13} + \frac{5}{369}\sqrt{385}e^{45},$ $\frac{5}{369}\sqrt{730}e^{16} + \frac{10}{369}\sqrt{5}e^{35}$	$(\frac{15}{41}, -\frac{95}{369}, -\frac{20}{123}, \frac{70}{369}, \frac{5}{369}, \frac{40}{369}, \frac{10}{369}, \frac{25}{123}, -\frac{55}{369})$ $+ \frac{10}{369}\sqrt{370}e^1 \otimes e_7 + \frac{5}{123}\sqrt{195}e^4 \otimes e_9$	{24678, 478}
941:40	$0, 0, 0, 0, 0, \frac{3}{2317}\sqrt{1243}e^{12}, \frac{3}{2317}\sqrt{1745}e^{34},$ $\frac{3}{2317}\sqrt{970}e^{13} + \frac{3}{2317}\sqrt{589}e^{45}, \frac{3}{2317}\sqrt{1618}e^{16} + \frac{6}{2317}\sqrt{55}e^{35}$	$(\frac{87}{2317}, -\frac{51}{2317}, -\frac{54}{2317}, -\frac{6}{2317}, \frac{39}{2317}, \frac{36}{2317}, -\frac{60}{2317}, \frac{33}{2317}, -\frac{15}{2317})$ $+ \frac{102}{2317}\sqrt{2}e^2 \otimes e_7 + \frac{75}{2317}\sqrt{3}e^4 \otimes e_9$	{129, 1356789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:40	$0, 0, 0, 0, 0, \frac{8}{1083}\sqrt{8310e^{12}}, \frac{22}{1083}\sqrt{1385e^{34}},$ $\frac{2}{1083}\sqrt{101105e^{13}} + \frac{32}{3249}\sqrt{1385e^{45}}, \frac{2}{3249}\sqrt{451510e^{26}} + \frac{2}{3249}\sqrt{580315e^{35}}$	$(\frac{192}{361}, -\frac{631}{3249}, -\frac{256}{1083}, -\frac{274}{3249}, \frac{1234}{3249}, \frac{1097}{3249}, -\frac{1042}{3249}, \frac{320}{1083}, \frac{466}{3249})$ $+ \frac{10}{3249}\sqrt{149026e^1} \otimes e_7$	{1289, 1689, 23678, 378}
941:40	$0, 0, 0, 0, 0, \frac{96}{653}\sqrt{17e^{12}}, \frac{6}{653}\sqrt{4930e^{34}}, \frac{6}{653}\sqrt{1955e^{13}} + \frac{6}{653}\sqrt{221e^{45}},$ $\frac{96}{653}\sqrt{17e^{26}} + \frac{6}{653}\sqrt{1955e^{35}}$	$(-\frac{42}{653}, \frac{141}{653}, \frac{39}{653}, -\frac{204}{653}, \frac{201}{653}, \frac{99}{653}, -\frac{165}{653}, -\frac{3}{653}, \frac{240}{653})$ $+ \frac{6}{653}\sqrt{9418e^2} \otimes e_7$	{129, 1356789, 2568, 37}
941:40	$0, 0, 0, 0, 0, \frac{1}{209}\sqrt{7685e^{12}}, \frac{1}{209}\sqrt{16385e^{34}},$ $\frac{1}{209}\sqrt{12470e^{13}} + \frac{1}{209}\sqrt{16385e^{45}}, \frac{1}{209}\sqrt{17690e^{26}} + \frac{2}{209}\sqrt{1885e^{35}}$	$(\frac{53}{209}, -\frac{51}{209}, -\frac{3}{209}, \frac{96}{209}, -\frac{46}{209}, \frac{2}{209}, \frac{93}{209}, \frac{50}{209}, -\frac{49}{209})$ $+ \frac{5}{209}\sqrt{2001e^4} \otimes e_9$	{23456, 24678, 345, 478}
941:40	$0, 0, 0, 0, 0, \frac{27}{673}\sqrt{17e^{12}}, \frac{9}{673}\sqrt{353e^{34}}, \frac{9}{673}\sqrt{334e^{13}} + \frac{9}{673}\sqrt{353e^{45}},$ $\frac{9}{673}\sqrt{170e^{26}} + \frac{18}{673}\sqrt{67e^{35}}$	$(\frac{153}{673}, -\frac{99}{673}, -\frac{81}{673}, \frac{36}{673}, \frac{36}{673}, \frac{54}{673}, -\frac{45}{673}, \frac{72}{673}, -\frac{45}{673})$ $+ \frac{18}{673}\sqrt{142e^5} \otimes e_7 + \frac{9}{673}\sqrt{653e^4} \otimes e_9$	{23456, 24678, 345, 478}
941:40	$0, 0, 0, 0, 0, \frac{27}{673}\sqrt{17e^{12}}, \frac{9}{673}\sqrt{353e^{34}}, \frac{9}{673}\sqrt{334e^{13}} + \frac{9}{673}\sqrt{353e^{45}},$ $\frac{9}{673}\sqrt{170e^{26}} + \frac{18}{673}\sqrt{67e^{35}}$	$(\frac{153}{673}, -\frac{99}{673}, -\frac{81}{673}, \frac{36}{673}, \frac{36}{673}, \frac{54}{673}, -\frac{45}{673}, \frac{72}{673}, -\frac{45}{673})$ $- \frac{18}{673}\sqrt{142e^5} \otimes e_7 + \frac{9}{673}\sqrt{653e^4} \otimes e_9$	{23456, 24678, 345, 478}
941:40	$0, 0, 0, 0, 0, \frac{13}{1913}\sqrt{737e^{12}}, \frac{13}{1913}\sqrt{281e^{34}},$ $\frac{13}{1913}\sqrt{178e^{13}} + \frac{13}{1913}\sqrt{1265e^{45}}, \frac{13}{1913}\sqrt{1418e^{26}} + \frac{26}{1913}\sqrt{107e^{35}}$	$(-\frac{247}{1913}, \frac{117}{1913}, \frac{195}{1913}, \frac{156}{1913}, -\frac{208}{1913}, -\frac{130}{1913}, \frac{351}{1913}, -\frac{52}{1913}, -\frac{13}{1913})$ $+ \frac{13}{1913}\sqrt{1437e^4} \otimes e_9 + \frac{52}{1913}\sqrt{123e^2} \otimes e_8$	{24567, 348}
941:40	$0, 0, 0, 0, 0, \frac{31}{7993}\sqrt{4082e^{12}}, \frac{62}{7993}\sqrt{355e^{34}},$ $\frac{62}{7993}\sqrt{935e^{13}} + \frac{31}{7993}\sqrt{2990e^{45}}, \frac{31}{7993}\sqrt{4710e^{26}} + \frac{279}{7993}\sqrt{46e^{35}}$	$(-\frac{279}{7993}, \frac{806}{7993}, \frac{124}{7993}, -\frac{1364}{7993}, \frac{1209}{7993}, \frac{527}{7993}, -\frac{1240}{7993}, -\frac{155}{7993}, \frac{1333}{7993})$ $+ \frac{217}{7993}\sqrt{178e^2} \otimes e_8 + \frac{31}{7993}\sqrt{5582e^1} \otimes e_7$	{123459, 24567}
941:40	$0, 0, 0, 0, 0, \frac{4}{3289}\sqrt{143165e^{12}}, \frac{28}{3289}\sqrt{685e^{34}},$ $\frac{2}{3289}\sqrt{534985e^{13}} + \frac{2}{3289}\sqrt{821315e^{45}}, \frac{2}{3289}\sqrt{954890e^{26}} + \frac{2}{3289}\sqrt{611705e^{35}}$	$(-\frac{86}{253}, \frac{1059}{3289}, \frac{807}{3289}, -\frac{504}{3289}, \frac{193}{3289}, -\frac{59}{3289}, \frac{303}{3289}, -\frac{311}{3289}, \frac{1000}{3289})$ $+ \frac{30}{3289}\sqrt{8494e^2} \otimes e_8$	{1234579, 14689, 2456, 3478}
941:41	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{11e^{12}}, \frac{1}{35}\sqrt{759e^{14}} + \frac{3}{35}\sqrt{33e^{35}},$ $-\frac{1}{35}\sqrt{759e^{13}} + \frac{3}{35}\sqrt{33e^{45}}, \frac{2}{35}\sqrt{66e^{16}}$	$(\frac{2}{5}, -\frac{19}{35}, -\frac{2}{35}, -\frac{2}{35}, \frac{2}{5}, -\frac{1}{7}, \frac{12}{35}, \frac{12}{35}, \frac{9}{35})$ $+ \frac{6}{35}\sqrt{55e^1} \otimes e_2$	{1349, 13579, 1789, 234578, 238, 25, 1349, 13579, 1789, 234578, 238, 25}
941:41	$0, 0, 0, 0, 0, \frac{6}{35}\sqrt{11e^{12}}, \frac{1}{35}\sqrt{759e^{14}} + \frac{3}{35}\sqrt{33e^{35}},$ $\frac{1}{35}\sqrt{759e^{13}} + \frac{3}{35}\sqrt{33e^{45}}, \frac{2}{35}\sqrt{66e^{16}}$	$(\frac{2}{5}, -\frac{19}{35}, -\frac{2}{35}, -\frac{2}{35}, \frac{2}{5}, -\frac{1}{7}, \frac{12}{35}, \frac{12}{35}, \frac{9}{35})$ $+ \frac{6}{35}\sqrt{55e^1} \otimes e_2$	{1349, 13579, 1789, 234578, 238, 25, 1349, 13579, 1789, 234578, 238, 25}
941:41	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6e^{12}}, \frac{2}{7}\sqrt{2e^{14}} + \frac{2}{7}\sqrt{2e^{35}},$ $-\frac{2}{7}\sqrt{2e^{13}} + \frac{2}{7}\sqrt{2e^{45}}, \frac{1}{7}\sqrt{10e^{16}}$	$(0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{7}\sqrt{14e^5} \otimes e_9 + \frac{1}{7}\sqrt{2e^1} \otimes e_2$	{1234789, 129, 345, 578, 1234789, 129, 345, 578}
941:41	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6e^{12}}, \frac{2}{7}\sqrt{2e^{14}} + \frac{2}{7}\sqrt{2e^{35}},$ $\frac{2}{7}\sqrt{2e^{13}} + \frac{2}{7}\sqrt{2e^{45}}, \frac{1}{7}\sqrt{10e^{16}}$	$(0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{7}\sqrt{14e^5} \otimes e_9 + \frac{1}{7}\sqrt{2e^1} \otimes e_2$	{1234789, 129, 345, 578, 1234789, 129, 345, 578}
941:41	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66e^{12}}, \frac{1}{43}\sqrt{429e^{14}} + \frac{33}{43}e^{35},$ $-\frac{1}{43}\sqrt{759e^{13}} + \frac{3}{43}\sqrt{11e^{45}}, \frac{2}{43}\sqrt{66e^{16}}$	$(-\frac{8}{43}, \frac{27}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{8}{43}, \frac{19}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{11}{43})$ $+ \frac{6}{43}\sqrt{66e^2} \otimes e_7$	{1234589, 1249, 13678, 1567, 23569, 2689, 347, 4578, 1234589, 1249, 13678, 1567, 23569, 2689, 347, 4578}
941:41	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{66e^{12}}, \frac{1}{43}\sqrt{429e^{14}} + \frac{33}{43}e^{35},$ $\frac{1}{43}\sqrt{759e^{13}} + \frac{3}{43}\sqrt{11e^{45}}, \frac{2}{43}\sqrt{66e^{16}}$	$(-\frac{8}{43}, \frac{27}{43}, \frac{2}{43}, \frac{2}{43}, -\frac{8}{43}, \frac{19}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{11}{43})$ $+ \frac{6}{43}\sqrt{66e^2} \otimes e_7$	{1234589, 1249, 13678, 1567, 23569, 2689, 347, 4578, 1234589, 1249, 13678, 1567, 23569, 2689, 347, 4578}
941:41	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39e^{12}}, \frac{1}{19}\sqrt{51e^{14}} + \frac{3}{19}\sqrt{6e^{35}},$ $-\frac{1}{19}\sqrt{51e^{13}} + \frac{3}{19}\sqrt{6e^{45}}, \frac{6}{19}\sqrt{2e^{16}}$	$(\frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, \frac{1}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11e^5} \otimes e_9$	{1234789, 129, 13568, 23679, 345, 578, 1234789, 129, 13568, 23679, 345, 578}
941:41	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{39e^{12}}, \frac{1}{19}\sqrt{51e^{14}} + \frac{3}{19}\sqrt{6e^{35}},$ $\frac{1}{19}\sqrt{51e^{13}} + \frac{3}{19}\sqrt{6e^{45}}, \frac{6}{19}\sqrt{2e^{16}}$	$(\frac{1}{19}, -\frac{4}{19}, \frac{2}{19}, \frac{2}{19}, \frac{1}{19}, -\frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19})$ $+ \frac{3}{19}\sqrt{11e^5} \otimes e_9$	{1234789, 129, 13568, 23679, 345, 578, 1234789, 129, 13568, 23679, 345, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:41	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{66}e^{12}, \frac{1}{43}\sqrt{759}e^{14} + \frac{33}{43}e^{35},$ $-\frac{1}{43}\sqrt{429}e^{13} + \frac{3}{43}\sqrt{11}e^{45}, \frac{4}{43}\sqrt{66}e^{16}$	$(-\frac{8}{43}, \frac{3}{43}, \frac{20}{43}, \frac{20}{43}, -\frac{8}{43}, -\frac{5}{43}, \frac{12}{43}, \frac{12}{43}, -\frac{13}{43})$ $+\frac{6}{43}\sqrt{66}e^3 \otimes e_9$	{1245789, 1289, 13467, 1356, 2469, 25679, 3458, 378, 1245789, 1289, 13467, 1356, 2469, 25679, 3458, 378}
941:41	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{66}e^{12}, \frac{1}{43}\sqrt{759}e^{14} + \frac{33}{43}e^{35},$ $\frac{1}{43}\sqrt{429}e^{13} + \frac{3}{43}\sqrt{11}e^{45}, \frac{4}{43}\sqrt{66}e^{16}$	$(-\frac{8}{43}, \frac{3}{43}, \frac{20}{43}, \frac{20}{43}, -\frac{8}{43}, -\frac{5}{43}, \frac{12}{43}, \frac{12}{43}, -\frac{13}{43})$ $+\frac{6}{43}\sqrt{66}e^3 \otimes e_9$	{1245789, 1289, 13467, 1356, 2469, 25679, 3458, 378, 1245789, 1289, 13467, 1356, 2469, 25679, 3458, 378}
941:41	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51}e^{12}, \frac{1}{73}\sqrt{39}e^{14} + \frac{1}{73}\sqrt{66}e^{35},$ $-\frac{1}{73}\sqrt{59}e^{13} + \frac{1}{73}\sqrt{46}e^{45}, \frac{2}{73}\sqrt{17}e^{16}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73}, -\frac{4}{73})$ $+\frac{1}{73}\sqrt{91}e^5 \otimes e_9 + \frac{2}{73}\sqrt{10}e^2 \otimes e_7$	{129, 14567, 24689, 578, 129, 14567, 24689, 578}
941:41	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51}e^{12}, \frac{1}{73}\sqrt{39}e^{14} + \frac{1}{73}\sqrt{66}e^{35},$ $\frac{1}{73}\sqrt{59}e^{13} + \frac{1}{73}\sqrt{46}e^{45}, \frac{2}{73}\sqrt{17}e^{16}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73}, -\frac{4}{73})$ $+\frac{1}{73}\sqrt{91}e^5 \otimes e_9 + \frac{2}{73}\sqrt{10}e^2 \otimes e_7$	{129, 14567, 24689, 578, 129, 14567, 24689, 578}
941:42	$0, 0, 0, 0, 0, \frac{8}{843}\sqrt{231}e^{12}, \frac{2}{843}\sqrt{28182}e^{14} + \frac{2}{281}\sqrt{8778}e^{35},$ $-\frac{70}{843}\sqrt{66}e^{13} + \frac{2}{843}\sqrt{30030}e^{45}, \frac{4}{843}\sqrt{21637}e^{26}$	$(-\frac{8}{281}, -\frac{134}{843}, \frac{108}{281}, \frac{108}{281}, -\frac{8}{281}, -\frac{158}{843}, \frac{100}{281}, \frac{100}{281}, -\frac{292}{843})$ $+\frac{8}{843}\sqrt{13629}e^3 \otimes e_9$	{123467, 12356, 1347, 135, 249, 2579, 469, 5679, 123467, 12356, 1347, 135, 249, 2579, 469, 5679}
941:42	$0, 0, 0, 0, 0, \frac{8}{843}\sqrt{231}e^{12}, \frac{2}{843}\sqrt{28182}e^{14} + \frac{2}{281}\sqrt{8778}e^{35},$ $\frac{70}{843}\sqrt{66}e^{13} + \frac{2}{843}\sqrt{30030}e^{45}, \frac{4}{843}\sqrt{21637}e^{26}$	$(-\frac{8}{281}, -\frac{134}{843}, \frac{108}{281}, \frac{108}{281}, -\frac{8}{281}, -\frac{158}{843}, \frac{100}{281}, \frac{100}{281}, -\frac{292}{843})$ $+\frac{8}{843}\sqrt{13629}e^3 \otimes e_9$	{123467, 12356, 1347, 135, 249, 2579, 469, 5679, 123467, 12356, 1347, 135, 249, 2579, 469, 5679}
941:42	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{1}{3}\sqrt{2}e^{14} + \frac{2}{3}e^{35}, -\frac{1}{3}\sqrt{2}e^{13} + \frac{2}{3}e^{45},$ $\frac{2}{3}e^{26}$	$(\frac{1}{3}, -\frac{1}{3}, 0, 0, \frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3})$ $+\frac{1}{3}\sqrt{10}e^5 \otimes e_9$	{1234789, 129, 1346789, 169, 23456, 25678, 345, 578, 1234789, 129, 1346789, 169, 23456, 25678, 345, 578}
941:42	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{1}{3}\sqrt{2}e^{14} + \frac{2}{3}e^{35}, \frac{1}{3}\sqrt{2}e^{13} + \frac{2}{3}e^{45},$ $\frac{2}{3}e^{26}$	$(\frac{1}{3}, -\frac{1}{3}, 0, 0, \frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3})$ $+\frac{1}{3}\sqrt{10}e^5 \otimes e_9$	{1234789, 129, 1346789, 169, 23456, 25678, 345, 578, 1234789, 129, 1346789, 169, 23456, 25678, 345, 578}
941:42	$0, 0, 0, 0, 0, \frac{280}{867}\sqrt{3}e^{12}, \frac{14}{289}\sqrt{74}e^{14} + \frac{14}{867}\sqrt{1266}e^{35},$ $-\frac{14}{867}\sqrt{798}e^{13} + \frac{14}{289}\sqrt{22}e^{45}, \frac{28}{51}e^{26}$	$(-\frac{44}{289}, \frac{278}{867}, \frac{6}{289}, \frac{6}{289}, -\frac{44}{289}, \frac{146}{867}, -\frac{38}{289}, -\frac{38}{289}, \frac{424}{867})$ $+\frac{56}{867}\sqrt{183}e^2 \otimes e_7$	{1234589, 1249, 136789, 15679, 2356, 268, 347, 4578, 1234589, 1249, 136789, 15679, 2356, 268, 347, 4578}
941:42	$0, 0, 0, 0, 0, \frac{280}{867}\sqrt{3}e^{12}, \frac{14}{289}\sqrt{74}e^{14} + \frac{14}{867}\sqrt{1266}e^{35},$ $\frac{14}{867}\sqrt{798}e^{13} + \frac{14}{289}\sqrt{22}e^{45}, \frac{28}{51}e^{26}$	$(-\frac{44}{289}, \frac{278}{867}, \frac{6}{289}, \frac{6}{289}, -\frac{44}{289}, \frac{146}{867}, -\frac{38}{289}, -\frac{38}{289}, \frac{424}{867})$ $+\frac{56}{867}\sqrt{183}e^2 \otimes e_7$	{1234589, 1249, 136789, 15679, 2356, 268, 347, 4578, 1234589, 1249, 136789, 15679, 2356, 268, 347, 4578}
941:43	$0, 0, 0, 0, 0, \frac{4}{1241}\sqrt{22814}e^{12}, \frac{4}{1241}\sqrt{12749}e^{14} + \frac{61}{1241}\sqrt{66}e^{35},$ $\frac{1}{1241}\sqrt{366366}e^{23} + \frac{3}{1241}\sqrt{49654}e^{45}, \frac{11}{1241}\sqrt{4026}e^{16}$	$(\frac{454}{1241}, -\frac{336}{1241}, \frac{7}{73}, -\frac{276}{1241}, \frac{59}{1241}, \frac{118}{1241}, \frac{178}{1241}, -\frac{217}{1241}, \frac{572}{1241})$ $+\frac{4}{1241}\sqrt{86559}e^1 \otimes e_8$	{1456, 167, 246789, 25689}
941:43	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{210}e^{12}, \frac{2}{73}\sqrt{330}e^{14} + \frac{1}{73}\sqrt{1110}e^{35},$ $\frac{1}{73}\sqrt{930}e^{23} + \frac{1}{73}\sqrt{1110}e^{45}, \frac{3}{73}\sqrt{130}e^{16}$	$(-\frac{14}{73}, \frac{12}{73}, \frac{3}{73}, \frac{16}{73}, -\frac{1}{73}, -\frac{2}{73}, \frac{2}{73}, \frac{15}{73}, -\frac{16}{73})$ $+\frac{8}{73}\sqrt{30}e^5 \otimes e_9$	{1234789, 129, 345, 578}
941:43	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10}e^{12}, \frac{1}{25}\sqrt{130}e^{14} + \frac{2}{25}\sqrt{30}e^{35},$ $\frac{3}{25}\sqrt{10}e^{23} + \frac{1}{25}\sqrt{110}e^{45}, \frac{2}{25}\sqrt{30}e^{16}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, 0, 0, \frac{1}{5}, -\frac{1}{5})$ $+\frac{2}{25}\sqrt{5}e^2 \otimes e_7 + \frac{2}{5}\sqrt{2}e^5 \otimes e_9$	{129, 578}
941:43	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42}e^{12}, \frac{4}{263}\sqrt{11}e^{14} + \frac{1}{263}\sqrt{134}e^{35},$ $\frac{7}{263}\sqrt{2}e^{23} + \frac{1}{263}\sqrt{222}e^{45}, \frac{3}{263}\sqrt{26}e^{16}$	$(\frac{2}{263}, -\frac{8}{263}, \frac{9}{263}, \frac{4}{263}, -\frac{3}{263}, -\frac{6}{263}, \frac{6}{263}, \frac{1}{263}, -\frac{4}{263})$ $+\frac{2}{263}\sqrt{74}e^5 \otimes e_9 + \frac{4}{263}\sqrt{11}e^1 \otimes e_8$	{129, 578}
941:43	$0, 0, 0, 0, 0, \frac{806}{5543}\sqrt{2}e^{12}, \frac{62}{5543}\sqrt{26}e^{14} + \frac{93}{5543}\sqrt{78}e^{35},$ $\frac{31}{5543}\sqrt{2638}e^{23} + \frac{31}{5543}\sqrt{1118}e^{45}, \frac{31}{5543}\sqrt{3730}e^{16}$	$(\frac{806}{5543}, -\frac{1364}{5543}, \frac{1209}{5543}, \frac{124}{5543}, -\frac{279}{5543}, -\frac{558}{5543}, \frac{930}{5543}, -\frac{155}{5543}, \frac{248}{5543})$ $+\frac{124}{5543}\sqrt{281}e^3 \otimes e_9 + \frac{372}{5543}\sqrt{37}e^1 \otimes e_8$	{24689, 256789}
941:43	$0, 0, 0, 0, 0, \frac{11}{1191}\sqrt{194}e^{12}, \frac{1}{397}\sqrt{416130}e^{14} + \frac{1}{1191}\sqrt{245410}e^{35},$ $\frac{1}{1191}\sqrt{49082}e^{23} + \frac{2}{397}\sqrt{22407}e^{45}, \frac{2}{1191}\sqrt{177122}e^{16}$	$(-\frac{111}{397}, \frac{217}{1191}, \frac{343}{1191}, \frac{206}{397}, -\frac{58}{1191}, -\frac{116}{1191}, \frac{95}{397}, \frac{560}{1191}, -\frac{449}{1191})$ $+\frac{2}{1191}\sqrt{526031}e^4 \otimes e_9$	{1235789, 1279, 3457, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:43	$0, 0, 0, 0, 0, \frac{3}{157}\sqrt{34}e^{12}, \frac{15}{157}\sqrt{2}e^{14} + \frac{15}{157}\sqrt{2}e^{35},$ $\frac{3}{157}\sqrt{38}e^{23} + \frac{6}{157}\sqrt{23}e^{45}, \frac{6}{157}\sqrt{22}e^{16}$	$(\frac{9}{157}, -\frac{21}{157}, \frac{21}{157}, \frac{6}{157}, -\frac{6}{157}, -\frac{12}{157}, \frac{15}{157}, 0, -\frac{3}{157})$ $+ \frac{12}{157}\sqrt{10}e^1 \otimes e_8 + \frac{6}{157}\sqrt{31}e^4 \otimes e_9$	{1456, 25689}
941:43	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{55}e^{12}, \frac{4}{195}\sqrt{165}e^{14} + \frac{2}{195}\sqrt{15}e^{35},$ $\frac{4}{195}\sqrt{195}e^{23} + \frac{2}{195}\sqrt{105}e^{45}, \frac{4}{65}\sqrt{10}e^{16}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{3}{13})$ $+ \frac{2}{195}\sqrt{1185}e^2 \otimes e_7 + \frac{2}{39}\sqrt{57}e^1 \otimes e_8$	{167, 25689}
941:43	$0, 0, 0, 0, 0, \frac{44}{1193}\sqrt{35}e^{12}, \frac{44}{1193}\sqrt{182}e^{14} + \frac{99}{1193}\sqrt{70}e^{35},$ $\frac{11}{1193}\sqrt{3934}e^{23} + \frac{11}{1193}\sqrt{1330}e^{45}, \frac{11}{1193}\sqrt{6538}e^{16}$	$(-\frac{106}{1193}, -\frac{128}{1193}, \frac{507}{1193}, \frac{496}{1193}, -\frac{117}{1193}, -\frac{234}{1193}, \frac{390}{1193}, \frac{379}{1193}, -\frac{340}{1193})$ $+ \frac{220}{1193}\sqrt{35}e^3 \otimes e_9$	{1245789, 1289, 3458, 378}
941:43	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{434}e^{12}, \frac{1}{47}\sqrt{1022}e^{14} + \frac{4}{47}\sqrt{42}e^{35},$ $\frac{1}{47}\sqrt{966}e^{23} + \frac{1}{47}\sqrt{714}e^{45}, \frac{2}{47}\sqrt{42}e^{16}$	$(-\frac{11}{47}, \frac{27}{47}, -\frac{16}{47}, \frac{3}{47}, \frac{8}{47}, \frac{16}{47}, -\frac{8}{47}, \frac{11}{47}, \frac{5}{47})$ $+ \frac{6}{47}\sqrt{77}e^2 \otimes e_7$	{136789, 15679, 2356, 268}
941:43	$0, 0, 0, 0, 0, \frac{1}{175}\sqrt{770}e^{12}, \frac{1}{175}\sqrt{910}e^{14} + \frac{4}{175}\sqrt{210}e^{35},$ $\frac{1}{25}\sqrt{70}e^{23} + \frac{1}{175}\sqrt{2170}e^{45}, \frac{2}{25}\sqrt{10}e^{16}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, 0, 0, \frac{1}{5}, -\frac{1}{5})$ $+ \frac{2}{175}\sqrt{1365}e^2 \otimes e_7 + \frac{4}{35}\sqrt{14}e^3 \otimes e_9$	{13678, 2689}
941:43	$0, 0, 0, 0, 0, \frac{18}{935}\sqrt{145}e^{12}, \frac{18}{935}\sqrt{610}e^{14} + \frac{54}{935}\sqrt{15}e^{35},$ $\frac{63}{935}\sqrt{30}e^{23} + \frac{18}{935}\sqrt{30}e^{45}, \frac{9}{935}\sqrt{790}e^{16}$	$(-\frac{54}{187}, \frac{72}{187}, -\frac{18}{187}, \frac{45}{187}, \frac{9}{187}, \frac{18}{187}, -\frac{9}{187}, \frac{54}{187}, -\frac{36}{187})$ $+ \frac{18}{187}\sqrt{37}e^4 \otimes e_9 + \frac{18}{935}\sqrt{1135}e^2 \otimes e_7$	{3478, 457}
941:44	$0, 0, 0, 0, 0, \frac{3}{248}\sqrt{281}e^{12}, \frac{3}{248}\sqrt{281}e^{13}, \frac{1}{248}\sqrt{1686}e^{23},$ $\frac{1}{248}\sqrt{36530}e^{14} + \frac{1}{124}\sqrt{8711}e^{26}$	$(-\frac{3}{62}, -\frac{21}{496}, \frac{103}{496}, -\frac{21}{248}, 1, -\frac{45}{496}, \frac{79}{496}, \frac{41}{248}, -\frac{33}{248})$ $+ \frac{1}{124}\sqrt{28662}e^5 \otimes e_9$	{12345678, 12456, 13457, 1458, 23489, 2479, 3469, 46789}
941:44	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778}e^{12}, \frac{1}{215}\sqrt{4389}e^{13}, \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{1}{215}\sqrt{1463}e^{14} + \frac{7}{215}\sqrt{209}e^{26}$	$(-\frac{28}{215}, \frac{99}{430}, -\frac{6}{215}, \frac{99}{215}, -\frac{167}{215}, \frac{1}{10}, -\frac{34}{215}, \frac{87}{430}, \frac{71}{215})$ $+ \frac{1}{215}\sqrt{20615}e^4 \otimes e_7 + \frac{1}{215}\sqrt{29393}e^2 \otimes e_5$	{12789, 15679, 2367, 3578}
941:44	$0, 0, 0, 0, 0, \frac{2}{321}\sqrt{397}e^{12}, \frac{1}{107}\sqrt{11910}e^{13}, \frac{1}{321}\sqrt{34142}e^{23},$ $\frac{1}{321}\sqrt{34142}e^{14} + \frac{1}{321}\sqrt{37318}e^{26}$	$(-\frac{13}{107}, \frac{49}{321}, -\frac{37}{321}, \frac{98}{321}, 1, \frac{10}{321}, -\frac{76}{321}, \frac{4}{107}, \frac{59}{321})$ $+ \frac{2}{321}\sqrt{52801}e^5 \otimes e_7$	{1234589, 12479, 134569, 146789, 234678, 2456, 347, 458}
941:44	$0, 0, 0, 0, 0, \frac{10}{529}\sqrt{330}e^{12}, \frac{10}{529}\sqrt{330}e^{13}, \frac{25}{529}\sqrt{102}e^{23},$ $\frac{30}{529}\sqrt{85}e^{14} + \frac{125}{529}\sqrt{2}e^{26}$	$(-\frac{9}{529}, \frac{35}{529}, -\frac{90}{529}, \frac{70}{529}, \frac{186}{529}, \frac{26}{529}, -\frac{99}{529}, -\frac{55}{529}, \frac{61}{529})$ $+ \frac{15}{529}\sqrt{170}e^5 \otimes e_9 + \frac{35}{529}\sqrt{70}e^4 \otimes e_8$	{12689, 13789, 2578, 3568}
941:44	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{3}{5}\sqrt{2}e^{13}, \frac{3}{10}\sqrt{6}e^{23},$ $\frac{3}{10}\sqrt{6}e^{14} + \frac{3}{10}\sqrt{5}e^{26}$	$(\frac{1}{2}, -\frac{1}{5}, \frac{1}{20}, -\frac{2}{5}, \frac{3}{20}, \frac{3}{10}, \frac{11}{20}, -\frac{3}{20}, \frac{1}{10})$ $+ \frac{3}{10}\sqrt{17}e^1 \otimes e_4$	{2345678, 234678, 2456, 246, 3457, 347, 458, 48}
941:44	$0, 0, 0, 0, 0, \frac{8}{1527}\sqrt{970}e^{12}, \frac{1}{1527}\sqrt{243470}e^{13}, \frac{2}{1527}\sqrt{127070}e^{23},$ $\frac{2}{1527}\sqrt{76145}e^{14} + \frac{4}{1527}\sqrt{14065}e^{26}$	$(\frac{132}{509}, -\frac{86}{1527}, -\frac{1}{509}, -\frac{172}{1527}, -\frac{488}{1527}, \frac{310}{1527}, \frac{131}{509}, -\frac{89}{1527}, \frac{224}{1527})$ $+ \frac{10}{509}\sqrt{679}e^3 \otimes e_5 + \frac{5}{1527}\sqrt{29294}e^1 \otimes e_8$	{12369, 1579, 258, 3678}
941:44	$0, 0, 0, 0, 0, \frac{140}{569}e^{12}, \frac{140}{569}e^{13}, \frac{70}{569}\sqrt{2}e^{23},$ $\frac{14}{569}\sqrt{10}e^{14} + \frac{14}{569}\sqrt{110}e^{26}$	$(\frac{21}{569}, \frac{21}{569}, -\frac{98}{569}, \frac{42}{569}, \frac{161}{569}, \frac{42}{569}, -\frac{77}{569}, -\frac{77}{569}, \frac{63}{569})$ $+ \frac{14}{569}\sqrt{109}e^5 \otimes e_9 + \frac{14}{569}\sqrt{179}e^1 \otimes e_8 + \frac{14}{569}\sqrt{229}e^2 \otimes e_7$	{1239, 1679, 2568, 3578}
941:44	$0, 0, 0, 0, 0, \frac{140}{569}e^{12}, \frac{140}{569}e^{13}, \frac{70}{569}\sqrt{2}e^{23},$ $\frac{14}{569}\sqrt{10}e^{14} + \frac{14}{569}\sqrt{110}e^{26}$	$(\frac{21}{569}, \frac{21}{569}, -\frac{98}{569}, \frac{42}{569}, \frac{161}{569}, \frac{42}{569}, -\frac{77}{569}, -\frac{77}{569}, \frac{63}{569})$ $+ \frac{14}{569}\sqrt{109}e^5 \otimes e_9 + \frac{14}{569}\sqrt{179}e^1 \otimes e_8 - \frac{14}{569}\sqrt{229}e^2 \otimes e_7$	{1239, 1679, 2568, 3578}
941:44	$0, 0, 0, 0, 0, \frac{3}{137}\sqrt{15}e^{12}, \frac{9}{137}\sqrt{13}e^{13}, \frac{21}{137}\sqrt{2}e^{23},$ $\frac{3}{137}e^{14} + \frac{3}{137}\sqrt{122}e^{26}$	$(-\frac{21}{137}, \frac{6}{137}, \frac{9}{137}, \frac{12}{137}, \frac{33}{137}, -\frac{15}{137}, \frac{12}{137}, \frac{15}{137}, -\frac{9}{137})$ $+ \frac{3}{137}\sqrt{85}e^5 \otimes e_8 + \frac{6}{137}\sqrt{51}e^3 \otimes e_9 + \frac{6}{137}\sqrt{53}e^2 \otimes e_7$	{145679, 3478}
941:44	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{14}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{70}e^{23},$ $\frac{1}{79}\sqrt{70}e^{14} + \frac{5}{79}\sqrt{42}e^{26}$	$(\frac{11}{79}, -\frac{12}{79}, \frac{22}{79}, -\frac{24}{79}, \frac{9}{79}, -\frac{1}{79}, \frac{33}{79}, \frac{10}{79}, -\frac{13}{79})$ $+ \frac{2}{79}\sqrt{665}e^3 \otimes e_9 + \frac{8}{79}\sqrt{35}e^1 \otimes e_4$	{125789, 12789, 15679, 1679}
941:44	$0, 0, 0, 0, 0, \frac{2}{291}\sqrt{2414}e^{12}, \frac{2}{291}\sqrt{2414}e^{13}, \frac{2}{291}\sqrt{1207}e^{23},$ $\frac{1}{291}\sqrt{2130}e^{14} + \frac{1}{291}\sqrt{7526}e^{26}$	$(\frac{23}{291}, \frac{23}{291}, -\frac{71}{291}, \frac{46}{291}, \frac{31}{291}, \frac{46}{291}, -\frac{16}{291}, -\frac{16}{291}, \frac{23}{97})$ $+ \frac{1}{291}\sqrt{16046}e^1 \otimes e_8 + \frac{7}{291}\sqrt{426}e^2 \otimes e_7$	{123459, 12349, 145679, 14679, 24568, 2468, 34578, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:44	$0, 0, 0, 0, 0, \frac{2}{291}\sqrt{2414e^{12}}, \frac{2}{291}\sqrt{2414e^{13}}, \frac{2}{291}\sqrt{1207e^{23}},$ $\frac{1}{291}\sqrt{2130e^{14}} + \frac{1}{291}\sqrt{7526e^{26}}$	$(\frac{23}{291}, \frac{23}{291}, -\frac{71}{291}, \frac{46}{291}, \frac{31}{291}, \frac{46}{291}, -\frac{16}{97}, -\frac{16}{97}, \frac{23}{97})$ $+ \frac{1}{291}\sqrt{16046e^1} \otimes e_8 - \frac{7}{291}\sqrt{426e^2} \otimes e_7$	{123459, 12349, 145679, 14679, 24568, 2468, 34578, 3478}
941:44	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065e^{12}}, \frac{1}{59}\sqrt{1065e^{13}}, \frac{1}{59}\sqrt{1633e^{23}},$ $\frac{2}{59}\sqrt{994e^{14}} + \frac{2}{59}\sqrt{355e^{26}}$	$(-\frac{7}{118}, \frac{31}{118}, \frac{11}{59}, \frac{31}{59}, -\frac{40}{59}, \frac{12}{59}, \frac{2}{59}, \frac{21}{59}, \frac{55}{118})$ $+ \frac{3}{59}\sqrt{781e^4} \otimes e_5$	{1235679, 125689, 135789, 159, 235, 2578, 3568, 567}
941:44	$0, 0, 0, 0, 0, \frac{1}{330}\sqrt{2831e^{12}}, \frac{1}{330}\sqrt{2831e^{13}}, \frac{1}{165}\sqrt{4619e^{23}},$ $\frac{1}{165}\sqrt{1937e^{14}} + \frac{1}{330}\sqrt{298e^{26}}$	$(\frac{27}{110}, -\frac{67}{660}, -\frac{23}{220}, -\frac{67}{330}, \frac{163}{330}, \frac{19}{132}, \frac{31}{220}, -\frac{34}{165}, \frac{7}{165})$ $+ \frac{1}{330}\sqrt{49766e^1} \otimes e_8 + \frac{1}{55}\sqrt{1043e^5} \otimes e_9$	{12345, 14567, 24689, 34789}
941:44	$0, 0, 0, 0, 0, \frac{23}{337}\sqrt{66e^{12}}, \frac{12}{337}\sqrt{253e^{13}}, \frac{1}{337}\sqrt{48070e^{23}},$ $\frac{1}{337}\sqrt{48070e^{14}} + \frac{7}{337}\sqrt{506e^{26}}$	$(-\frac{43}{337}, -\frac{20}{337}, \frac{170}{337}, -\frac{40}{337}, \frac{55}{337}, -\frac{63}{337}, \frac{127}{337}, \frac{150}{337}, -\frac{83}{337})$ $+ \frac{2}{337}\sqrt{35673e^3} \otimes e_9$	{123456, 12346, 13458, 1348, 24589, 2489, 4569, 469}
941:44	$0, 0, 0, 0, 0, \frac{1}{235}\sqrt{471e^{12}}, \frac{4}{235}\sqrt{15e^{13}}, \frac{12}{235}\sqrt{6e^{23}},$ $\frac{12}{235}\sqrt{6e^{14}} + \frac{6}{235}\sqrt{10e^{26}}$	$(-\frac{13}{235}, \frac{7}{235}, \frac{4}{235}, \frac{14}{235}, -\frac{6}{235}, -\frac{6}{235}, -\frac{9}{235}, \frac{11}{235}, \frac{1}{235})$ $+ \frac{1}{235}\sqrt{111e^5} \otimes e_7 + \frac{1}{235}\sqrt{573e^3} \otimes e_9 + \frac{3}{235}\sqrt{97e^4} \otimes e_8$	{12689, 368}
941:44	$0, 0, 0, 0, 0, \frac{1}{295}\sqrt{12513e^{12}}, \frac{1}{295}\sqrt{29973e^{13}}, \frac{1}{590}\sqrt{9894e^{23}},$ $\frac{97}{590}\sqrt{6e^{14}} + \frac{1}{590}\sqrt{33465e^{26}}$	$(\frac{31}{118}, -\frac{34}{295}, \frac{219}{1180}, -\frac{68}{295}, -\frac{363}{1180}, \frac{87}{590}, \frac{529}{1180}, \frac{83}{1180}, \frac{19}{590})$ $+ \frac{1}{590}\sqrt{169653e^1} \otimes e_4 + \frac{6}{295}\sqrt{970e^3} \otimes e_5$	{234678, 2456, 347, 458}
941:44	$0, 0, 0, 0, 0, \frac{22}{1615}\sqrt{141e^{12}}, \frac{11}{1615}\sqrt{3486e^{13}}, \frac{33}{1615}\sqrt{74e^{23}},$ $\frac{33}{1615}\sqrt{74e^{14}} + \frac{66}{1615}\sqrt{47e^{26}}$	$(\frac{77}{1615}, -\frac{143}{1615}, \frac{154}{1615}, -\frac{286}{1615}, \frac{594}{1615}, -\frac{66}{1615}, \frac{231}{1615}, \frac{11}{1615}, -\frac{11}{85})$ $+ \frac{22}{1615}\sqrt{753e^3} \otimes e_9 + \frac{1}{1615}\sqrt{346e^1} \otimes e_4 + \frac{44}{1615}\sqrt{177e^5} \otimes e_7$	{234678, 347}
941:44	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{68798e^{12}}, \frac{4}{995}\sqrt{5034e^{13}}, \frac{1}{995}\sqrt{179546e^{23}},$ $\frac{3}{995}\sqrt{31882e^{14}} + \frac{1}{995}\sqrt{592334e^{26}}$	$(\frac{11}{995}, \frac{166}{995}, \frac{102}{995}, \frac{332}{995}, -\frac{673}{995}, \frac{177}{995}, \frac{113}{995}, \frac{268}{995}, \frac{343}{995})$ $+ \frac{2}{995}\sqrt{349863e^2} \otimes e_5$	{123479, 12489, 13456789, 14569, 2346, 24678, 3458, 457}
941:44	$0, 0, 0, 0, 0, \frac{2}{913}\sqrt{24366e^{12}}, \frac{4}{913}\sqrt{12927e^{13}}, \frac{6}{913}\sqrt{2170e^{23}},$ $\frac{6}{913}\sqrt{2170e^{14}} + \frac{12}{913}\sqrt{651e^{26}}$	$(-\frac{157}{913}, -\frac{5}{913}, \frac{205}{913}, -\frac{10}{913}, \frac{420}{913}, -\frac{162}{913}, \frac{48}{913}, \frac{200}{913}, -\frac{167}{913})$ $+ \frac{10}{913}\sqrt{2418e^5} \otimes e_7 + \frac{2}{913}\sqrt{91698e^3} \otimes e_9$	{123456, 13458, 24589, 4569}
941:44	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065e^{12}}, \frac{1}{59}\sqrt{1065e^{13}}, \frac{2}{59}\sqrt{994e^{23}},$ $\frac{1}{59}\sqrt{1633e^{14}} + \frac{2}{59}\sqrt{355e^{26}}$	$(\frac{13}{59}, -\frac{1}{59}, -\frac{11}{59}, -\frac{2}{59}, \frac{1}{59}, \frac{12}{59}, \frac{2}{59}, -\frac{12}{59}, \frac{11}{59})$ $+ \frac{3}{59}\sqrt{781e^5} \otimes e_8$	{1235679, 12689, 13789, 159, 235, 278, 368, 567}
941:44	$0, 0, 0, 0, 0, \frac{1}{744}\sqrt{10249e^{12}}, \frac{1}{744}\sqrt{10249e^{13}}, \frac{1}{744}\sqrt{118002e^{23}},$ $\frac{1}{744}\sqrt{172294e^{14}} + \frac{1}{186}\sqrt{5263e^{26}}$	$(\frac{22}{93}, \frac{17}{496}, -\frac{253}{1488}, \frac{17}{248}, -\frac{113}{372}, \frac{13}{48}, \frac{33}{496}, -\frac{101}{744}, \frac{227}{744})$ $+ \frac{1}{372}\sqrt{52907e^1} \otimes e_8 + \frac{7}{372}\sqrt{831e^4} \otimes e_5$	{1235679, 159, 2578, 3568}
941:44	$0, 0, 0, 0, 0, \frac{1}{251}\sqrt{25926e^{12}}, \frac{1}{251}\sqrt{25926e^{13}}, \frac{1}{251}\sqrt{3874e^{23}},$ $\frac{1}{251}\sqrt{6258e^{14}} + \frac{2}{251}\sqrt{8642e^{26}}$	$(-\frac{52}{251}, \frac{61}{251}, -\frac{36}{251}, \frac{122}{251}, \frac{38}{251}, \frac{9}{251}, -\frac{88}{251}, \frac{25}{251}, \frac{70}{251})$ $+ \frac{1}{251}\sqrt{63474e^2} \otimes e_7$	{1234589, 123489, 1456789, 146789, 2456, 246, 3457, 347}
941:44	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2e^{12}}, \frac{18}{61}\sqrt{2e^{13}}, \frac{3}{61}\sqrt{42e^{23}},$ $\frac{3}{61}\sqrt{66e^{14}} + \frac{12}{61}\sqrt{6e^{26}}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{18}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{3}{61}\sqrt{102e^5} \otimes e_8 + \frac{3}{61}\sqrt{222e^2} \otimes e_7$	{123459, 145679, 2468, 3478}
941:44	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{7e^{12}}, \frac{2}{25}\sqrt{15e^{13}}, \frac{2}{25}\sqrt{22e^{23}},$ $\frac{2}{25}\sqrt{13e^{14}} + \frac{2}{25}\sqrt{6e^{26}}$	$(\frac{2}{25}, -\frac{3}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{4}{25}\sqrt{11e^3} \otimes e_9 + \frac{4}{25}\sqrt{5e^1} \otimes e_4 + \frac{6}{25}\sqrt{3e^5} \otimes e_8$	{2489, 4569}
941:44	$0, 0, 0, 0, 0, \frac{8}{1527}\sqrt{970e^{12}}, \frac{1}{1527}\sqrt{243470e^{13}}, \frac{2}{1527}\sqrt{76145e^{23}},$ $\frac{1}{1527}\sqrt{127070e^{14}} + \frac{4}{1527}\sqrt{14065e^{26}}$	$(\frac{62}{509}, \frac{124}{1527}, -\frac{141}{509}, \frac{248}{1527}, \frac{142}{1527}, \frac{310}{1527}, -\frac{79}{509}, \frac{299}{1527}, \frac{434}{1527})$ $+ \frac{10}{509}\sqrt{679e^4} \otimes e_7 + \frac{5}{1527}\sqrt{29294e^1} \otimes e_8$	{1579, 179, 35678, 3678}
941:44	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{273e^{12}}, \frac{1}{65}\sqrt{462e^{13}}, \frac{7}{65}\sqrt{6e^{23}},$ $\frac{1}{65}\sqrt{714e^{14}} + \frac{2}{65}\sqrt{210e^{26}}$	$(\frac{3}{13}, -\frac{3}{65}, \frac{2}{65}, -\frac{6}{65}, -\frac{24}{65}, \frac{12}{65}, \frac{17}{65}, -\frac{1}{65}, \frac{9}{65})$ $+ \frac{1}{65}\sqrt{1218e^1} \otimes e_4 + \frac{6}{65}\sqrt{35e^2} \otimes e_5$	{234678, 246, 3457, 458}
941:44	$0, 0, 0, 0, 0, \frac{7}{971}\sqrt{6330e^{12}}, \frac{2}{971}\sqrt{136095e^{13}}, \frac{1}{971}\sqrt{647770e^{23}},$ $\frac{1}{971}\sqrt{78070e^{14}} + \frac{1}{971}\sqrt{128710e^{26}}$	$(\frac{13}{971}, \frac{62}{971}, \frac{406}{971}, \frac{124}{971}, -\frac{649}{971}, \frac{75}{971}, \frac{419}{971}, \frac{468}{971}, \frac{137}{971})$ $+ \frac{30}{971}\sqrt{211e^3} \otimes e_5$	{12369, 1256789, 1389, 1579, 237, 258, 3678, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:44	$0, 0, 0, 0, 0, \frac{2}{663}\sqrt{17098}e^{12}, \frac{2}{663}\sqrt{17098}e^{13}, \frac{2}{663}\sqrt{5063}e^{23},$ $\frac{20}{663}\sqrt{83}e^{14} + \frac{2}{663}\sqrt{16185}e^{26}$	$(-\frac{5}{663}, \frac{28}{221}, -\frac{77}{663}, \frac{56}{221}, -\frac{57}{221}, \frac{79}{663}, -\frac{82}{663}, \frac{7}{663}, \frac{163}{663})$ $+\frac{2}{663}\sqrt{19837}e^1 \otimes e_5 + \frac{4}{663}\sqrt{7387}e^2 \otimes e_7$	{123489, 146789, 2456, 3457}
941:44	$0, 0, 0, 0, 0, \frac{3}{776}\sqrt{3005}e^{12}, \frac{3}{776}\sqrt{3005}e^{13}, \frac{21}{776}\sqrt{30}e^{23},$ $\frac{3}{776}\sqrt{310}e^{14} + \frac{3}{776}\sqrt{2930}e^{26}$	$(\frac{29}{388}, \frac{13}{1552}, -\frac{193}{1552}, \frac{13}{776}, \frac{57}{776}, \frac{129}{1552}, -\frac{77}{1552}, -\frac{45}{388}, \frac{71}{776})$ $+\frac{3}{776}\sqrt{3230}e^1 \otimes e_4 + \frac{9}{388}\sqrt{110}e^2 \otimes e_7$	{2456, 246, 3457, 347}
941:44	$0, 0, 0, 0, 0, \frac{7}{971}\sqrt{6330}e^{12}, \frac{2}{971}\sqrt{136095}e^{13}, \frac{1}{971}\sqrt{78070}e^{23},$ $\frac{1}{971}\sqrt{647770}e^{14} + \frac{1}{971}\sqrt{128710}e^{26}$	$(-\frac{257}{971}, \frac{332}{971}, -\frac{134}{971}, \frac{664}{971}, \frac{161}{971}, \frac{75}{971}, -\frac{391}{971}, \frac{198}{971}, \frac{407}{971})$ $+\frac{90}{971}\sqrt{211}e^4 \otimes e_7$	{1256789, 126789, 1579, 179, 2357, 237, 35678, 3678}
941:44	$0, 0, 0, 0, 0, \frac{21}{145}\sqrt{2}e^{12}, \frac{14}{145}\sqrt{6}e^{13}, \frac{7}{145}\sqrt{59}e^{23},$ $\frac{21}{145}\sqrt{2}e^{14} + \frac{7}{145}\sqrt{71}e^{26}$	$(-\frac{14}{145}, \frac{7}{290}, \frac{42}{145}, \frac{7}{145}, -\frac{91}{290}, -\frac{21}{290}, \frac{28}{145}, \frac{91}{290}, -\frac{7}{145})$ $+\frac{21}{145}\sqrt{15}e^3 \otimes e_9 + \frac{7}{145}\sqrt{123}e^2 \otimes e_5$	{12789, 15679, 2367, 3578}
941:44	$0, 0, 0, 0, 0, \frac{8}{365}\sqrt{39}e^{12}, \frac{12}{365}\sqrt{41}e^{13}, \frac{4}{365}\sqrt{474}e^{23},$ $\frac{76}{365}\sqrt{3}e^{14} + \frac{4}{365}\sqrt{177}e^{26}$	$(\frac{18}{365}, \frac{12}{365}, -\frac{66}{365}, \frac{24}{365}, \frac{114}{365}, \frac{6}{73}, -\frac{48}{365}, -\frac{54}{365}, \frac{42}{365})$ $+\frac{4}{365}\sqrt{1209}e^1 \otimes e_8 + \frac{4}{365}\sqrt{777}e^5 \otimes e_9 + \frac{4}{73}\sqrt{42}e^4 \otimes e_7$	{179, 35678}
941:44	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{195}e^{12}, \frac{1}{71}\sqrt{195}e^{13}, \frac{2}{71}\sqrt{30}e^{23},$ $\frac{1}{71}\sqrt{183}e^{14} + \frac{8}{71}\sqrt{3}e^{26}$	$(\frac{5}{71}, \frac{1}{71}, -\frac{7}{71}, \frac{2}{71}, -\frac{3}{71}, \frac{6}{71}, -\frac{2}{71}, -\frac{6}{71}, \frac{7}{71})$ $+\frac{1}{71}\sqrt{51}e^5 \otimes e_8 + \frac{2}{71}\sqrt{51}e^1 \otimes e_4 + \frac{4}{71}\sqrt{15}e^2 \otimes e_7$	{246, 347}
941:44	$0, 0, 0, 0, 0, \frac{2}{1195}\sqrt{28482}e^{12}, \frac{202}{1195}\sqrt{6}e^{13}, \frac{2}{1195}\sqrt{126654}e^{23},$ $\frac{2}{1195}\sqrt{104838}e^{14} + \frac{44}{1195}\sqrt{101}e^{26}$	$(\frac{21}{1195}, \frac{176}{1195}, -\frac{228}{1195}, \frac{352}{1195}, -\frac{228}{1195}, \frac{197}{1195}, -\frac{207}{1195}, -\frac{52}{1195}, \frac{373}{1195})$ $+\frac{2}{239}\sqrt{6262}e^4 \otimes e_8 + \frac{36}{1195}\sqrt{202}e^2 \otimes e_5$	{12689, 135789, 278, 3568}
941:44	$0, 0, 0, 0, 0, \frac{4}{2689}\sqrt{6915}e^{12}, \frac{12}{2689}\sqrt{7837}e^{13}, \frac{2}{2689}\sqrt{129541}e^{23},$ $\frac{4}{2689}\sqrt{72838}e^{14} + \frac{2}{2689}\sqrt{111101}e^{26}$	$(\frac{161}{2689}, -\frac{170}{2689}, \frac{743}{2689}, -\frac{340}{2689}, -\frac{761}{2689}, -\frac{9}{2689}, \frac{904}{2689}, \frac{573}{2689}, -\frac{179}{2689})$ $+\frac{16}{2689}\sqrt{9681}e^3 \otimes e_9 + \frac{18}{2689}\sqrt{5993}e^1 \otimes e_5$	{12346, 1348, 24589, 4569}
941:44	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{870}e^{12}, \frac{1}{67}\sqrt{870}e^{13}, \frac{1}{67}\sqrt{2262}e^{23},$ $\frac{6}{67}\sqrt{58}e^{14} + \frac{2}{67}\sqrt{290}e^{26}$	$(0, \frac{11}{67}, -\frac{18}{67}, \frac{22}{67}, \frac{6}{67}, \frac{11}{67}, -\frac{18}{67}, -\frac{7}{67}, \frac{22}{67})$ $+\frac{2}{67}\sqrt{754}e^4 \otimes e_8 + \frac{3}{67}\sqrt{58}e^2 \otimes e_7$	{125689, 12689, 135789, 13789}
941:44	$0, 0, 0, 0, 0, \frac{6}{2227}\sqrt{14746}e^{12}, \frac{202}{2227}\sqrt{6}e^{13}, \frac{2}{2227}\sqrt{265630}e^{23},$ $\frac{2}{2227}\sqrt{217958}e^{14} + \frac{4}{2227}\sqrt{38279}e^{26}$	$(\frac{1}{2227}, \frac{220}{2227}, -\frac{184}{2227}, \frac{440}{2227}, -\frac{588}{2227}, \frac{13}{131}, -\frac{183}{2227}, \frac{36}{2227}, \frac{441}{2227})$ $+\frac{2}{2227}\sqrt{282598}e^4 \otimes e_8 + \frac{4}{2227}\sqrt{35754}e^3 \otimes e_5$	{125689, 13789, 2578, 368}
941:44	$0, 0, 0, 0, 0, \frac{1}{258}\sqrt{11446}e^{12}, \frac{1}{258}\sqrt{21534}e^{13}, \frac{1}{258}\sqrt{12998}e^{23},$ $\frac{1}{258}\sqrt{12998}e^{14} + \frac{1}{258}\sqrt{9991}e^{26}$	$(\frac{17}{86}, -\frac{23}{258}, -\frac{47}{516}, -\frac{23}{129}, \frac{83}{172}, \frac{14}{129}, \frac{55}{516}, -\frac{31}{172}, \frac{5}{258})$ $+\frac{1}{258}\sqrt{25899}e^1 \otimes e_4 + \frac{2}{129}\sqrt{1261}e^5 \otimes e_7$	{234678, 2456, 347, 458}
941:44	$0, 0, 0, 0, 0, \frac{16}{1181}\sqrt{215}e^{12}, \frac{16}{1181}\sqrt{215}e^{13}, \frac{8}{1181}\sqrt{426}e^{23},$ $\frac{8}{1181}\sqrt{770}e^{14} + \frac{8}{1181}\sqrt{878}e^{26}$	$(\frac{72}{1181}, \frac{4}{1181}, -\frac{132}{1181}, \frac{8}{1181}, \frac{144}{1181}, \frac{76}{1181}, -\frac{60}{1181}, -\frac{128}{1181}, \frac{80}{1181})$ $+\frac{16}{1181}\sqrt{231}e^1 \otimes e_4 + \frac{40}{1181}\sqrt{46}e^2 \otimes e_7 + \frac{8}{1181}\sqrt{118}e^5 \otimes e_9$	{2456, 3457}
941:44	$0, 0, 0, 0, 0, \frac{1}{247}\sqrt{1806}e^{12}, \frac{12}{247}\sqrt{43}e^{13}, \frac{5}{247}\sqrt{86}e^{23},$ $\frac{1}{247}\sqrt{1290}e^{14} + \frac{1}{247}\sqrt{6794}e^{26}$	$(-\frac{53}{247}, \frac{20}{247}, \frac{30}{247}, \frac{40}{247}, \frac{25}{247}, -\frac{33}{247}, -\frac{23}{247}, \frac{50}{247}, -\frac{1}{19})$ $+\frac{2}{247}\sqrt{2193}e^3 \otimes e_9 + \frac{4}{247}\sqrt{645}e^2 \otimes e_7$	{145679, 14679, 34578, 3478}
941:44	$0, 0, 0, 0, 0, \frac{4}{175}\sqrt{282}e^{12}, \frac{12}{175}\sqrt{10}e^{13}, \frac{4}{175}\sqrt{358}e^{23},$ $\frac{8}{175}\sqrt{133}e^{14} + \frac{8}{175}e^{26}$	$(-\frac{103}{700}, \frac{31}{700}, \frac{43}{140}, \frac{31}{350}, -\frac{97}{350}, -\frac{18}{175}, \frac{4}{123}, \frac{153}{25}, -\frac{41}{700})$ $+\frac{12}{175}\sqrt{58}e^4 \otimes e_5 + \frac{8}{175}\sqrt{186}e^3 \otimes e_9$	{1256789, 1579, 2357, 35678}
941:44	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{5}e^{12}, \frac{1}{6}\sqrt{5}e^{13}, \frac{1}{3}\sqrt{5}e^{23},$ $\frac{1}{3}\sqrt{5}e^{14} + \frac{1}{6}\sqrt{10}e^{26}$	$(\frac{1}{2}, -\frac{1}{12}, -\frac{1}{4}, -\frac{1}{6}, \frac{1}{6}, \frac{5}{12}, \frac{1}{4}, -\frac{1}{3}, \frac{1}{3})$ $+\frac{5}{6}\sqrt{2}e^1 \otimes e_8$	{1234, 12345, 14567, 1467, 245689, 24689, 345789, 34789}
941:44	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{1905}e^{12}, \frac{4}{251}\sqrt{1905}e^{13}, \frac{2}{251}\sqrt{3683}e^{23},$ $\frac{4}{251}\sqrt{1270}e^{14} + \frac{2}{251}\sqrt{1397}e^{26}$	$(\frac{91}{251}, \frac{2}{251}, \frac{13}{251}, \frac{4}{251}, -\frac{163}{251}, \frac{93}{251}, \frac{104}{251}, \frac{15}{251}, \frac{95}{251})$ $+\frac{6}{251}\sqrt{2921}e^1 \otimes e_5$	{12389, 1279, 1369, 16789, 235678, 256, 357, 58}
941:44	$0, 0, 0, 0, 0, \frac{10}{2961}\sqrt{9581}e^{12}, \frac{2}{2961}\sqrt{263846}e^{13}, \frac{22}{2961}\sqrt{67}e^{23},$ $\frac{20}{987}\sqrt{737}e^{14} + \frac{4}{2961}\sqrt{42009}e^{26}$	$(-\frac{71}{329}, \frac{380}{2961}, -\frac{25}{987}, \frac{760}{2961}, \frac{1595}{2961}, -\frac{37}{423}, -\frac{34}{141}, \frac{305}{2961}, \frac{121}{2961})$ $+\frac{2}{2961}\sqrt{1006742}e^4 \otimes e_7 + \frac{2}{2961}\sqrt{958837}e^5 \otimes e_9$	{123456, 13458, 2489, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:44	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{6}e^{12}, \frac{16}{73}\sqrt{6}e^{13}, \frac{8}{73}\sqrt{51}e^{23},$ $\frac{8}{73}\sqrt{51}e^{14} + \frac{32}{73}\sqrt{2}e^{26}$	$(\frac{3}{73}, \frac{11}{73}, -\frac{21}{73}, \frac{22}{73}, \frac{6}{73}, \frac{14}{73}, -\frac{18}{73}, -\frac{10}{73}, \frac{25}{73})$ $+ \frac{8}{73}\sqrt{67}e^4 \otimes e_8$	{125689, 12689, 135789, 13789, 2578, 278, 3568, 368}
941:44	$0, 0, 0, 0, 0, \frac{2}{509}\sqrt{1914}e^{12}, \frac{15}{509}\sqrt{58}e^{13}, \frac{2}{509}\sqrt{7134}e^{23},$ $\frac{2}{509}\sqrt{7134}e^{14} + \frac{2}{509}\sqrt{609}e^{26}$	$(\frac{76}{509}, -\frac{58}{509}, \frac{47}{509}, -\frac{116}{509}, \frac{48}{509}, \frac{18}{509}, \frac{123}{509}, -\frac{11}{509}, -\frac{40}{509})$ $+ \frac{1}{509}\sqrt{38802}e^1 \otimes e_8 + \frac{2}{509}\sqrt{10353}e^3 \otimes e_9$	{1579, 179, 35678, 3678}
941:44	$0, 0, 0, 0, 0, \frac{6}{425}\sqrt{213}e^{12}, \frac{1}{425}\sqrt{40470}e^{13}, \frac{1}{425}\sqrt{25986}e^{23},$ $\frac{1}{425}\sqrt{25986}e^{14} + \frac{1}{85}\sqrt{426}e^{26}$	$(\frac{97}{425}, -\frac{7}{425}, -\frac{109}{425}, -\frac{14}{425}, \frac{201}{425}, \frac{18}{85}, -\frac{12}{425}, -\frac{116}{425}, \frac{83}{425})$ $+ \frac{2}{425}\sqrt{16401}e^5 \otimes e_7 + \frac{8}{425}\sqrt{1491}e^1 \otimes e_8$	{12345, 1467, 245689, 34789}
941:44	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{5}e^{12}, \frac{1}{11}\sqrt{30}e^{13}, \frac{2}{11}\sqrt{5}e^{23},$ $\frac{2}{11}\sqrt{5}e^{14} + \frac{1}{11}\sqrt{10}e^{26}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{1}{11}, \frac{4}{11}, -\frac{4}{11}, 0, -\frac{1}{11}, \frac{3}{11}, \frac{2}{11})$ $+ \frac{5}{11}\sqrt{2}e^3 \otimes e_5 + \frac{5}{11}\sqrt{2}e^4 \otimes e_7$	{1256789, 1579, 237, 3678}
941:44	$0, 0, 0, 0, 0, \frac{2}{3185}\sqrt{69882}e^{12}, \frac{2}{3185}\sqrt{503886}e^{13}, \frac{2}{3185}\sqrt{109727}e^{23},$ $\frac{8}{455}\sqrt{613}e^{14} + \frac{2}{3185}\sqrt{63139}e^{26}$	$(\frac{1}{65}, \frac{464}{3185}, -\frac{347}{3185}, \frac{928}{3185}, -\frac{1177}{3185}, \frac{513}{3185}, -\frac{298}{3185}, \frac{9}{245}, \frac{977}{3185})$ $+ \frac{2}{3185}\sqrt{902949}e^1 \otimes e_5 + \frac{4}{3185}\sqrt{217002}e^4 \otimes e_7$	{12348, 1346, 24569, 4589}
941:44	$0, 0, 0, 0, 0, \frac{3}{8}\sqrt{3}e^{12}, \frac{3}{16}\sqrt{3}e^{13}, \frac{1}{16}\sqrt{74}e^{23},$ $\frac{1}{8}\sqrt{22}e^{14} + \frac{5}{16}\sqrt{2}e^{26}$	$(\frac{1}{8}, \frac{3}{32}, -\frac{7}{32}, \frac{3}{16}, -\frac{3}{16}, \frac{7}{32}, -\frac{3}{32}, -\frac{1}{8}, \frac{5}{16})$ $+ \frac{1}{16}\sqrt{106}e^4 \otimes e_8 + \frac{1}{16}\sqrt{42}e^1 \otimes e_5$	{12689, 13789, 2578, 3568}
941:44	$0, 0, 0, 0, 0, \frac{4}{53}\sqrt{35}e^{12}, \frac{4}{53}\sqrt{15}e^{13}, \frac{12}{53}\sqrt{6}e^{23},$ $\frac{4}{53}\sqrt{57}e^{14} + \frac{4}{53}\sqrt{30}e^{26}$	$(-\frac{4}{53}, \frac{8}{53}, -\frac{12}{53}, \frac{16}{53}, \frac{28}{53}, \frac{4}{53}, -\frac{16}{53}, -\frac{4}{53}, \frac{12}{53})$ $+ \frac{40}{53}e^4 \otimes e_7 + \frac{4}{53}\sqrt{91}e^5 \otimes e_8$	{126789, 1579, 2357, 3678}
941:44	$0, 0, 0, 0, 0, \frac{4}{175}\sqrt{282}e^{12}, \frac{12}{175}\sqrt{10}e^{13}, \frac{8}{175}\sqrt{133}e^{23},$ $\frac{4}{175}\sqrt{358}e^{14} + \frac{8}{175}e^{26}$	$(-\frac{4}{175}, -\frac{2}{25}, \frac{32}{175}, -\frac{4}{25}, \frac{82}{175}, -\frac{18}{175}, \frac{4}{175}, \frac{18}{175}, -\frac{32}{175})$ $+ \frac{12}{175}\sqrt{58}e^5 \otimes e_8 + \frac{8}{175}\sqrt{186}e^3 \otimes e_9$	{126789, 1579, 2357, 3678}
941:44	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{21}e^{12}, \frac{3}{56}\sqrt{42}e^{13}, \frac{1}{28}\sqrt{70}e^{23},$ $\frac{1}{8}\sqrt{10}e^{14} + \frac{3}{28}\sqrt{14}e^{26}$	$(-\frac{1}{4}, \frac{5}{56}, \frac{5}{28}, \frac{5}{28}, \frac{5}{56}, -\frac{9}{56}, -\frac{14}{56}, \frac{15}{56}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{798}e^3 \otimes e_9 + \frac{3}{56}\sqrt{70}e^4 \otimes e_7$	{123456, 12346, 13458, 1348, 24589, 2489, 4569, 469}
941:44	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{21}e^{12}, \frac{3}{56}\sqrt{42}e^{13}, \frac{1}{28}\sqrt{70}e^{23},$ $\frac{1}{8}\sqrt{10}e^{14} + \frac{3}{28}\sqrt{14}e^{26}$	$(-\frac{1}{4}, \frac{5}{56}, \frac{5}{28}, \frac{5}{28}, \frac{5}{56}, -\frac{9}{56}, -\frac{14}{56}, \frac{15}{56}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{798}e^3 \otimes e_9 - \frac{3}{56}\sqrt{70}e^4 \otimes e_7$	{123456, 12346, 13458, 1348, 24589, 2489, 4569, 469}
941:44	$0, 0, 0, 0, 0, \frac{10}{577}\sqrt{530}e^{12}, \frac{10}{577}\sqrt{530}e^{13}, \frac{6}{577}\sqrt{318}e^{23},$ $\frac{2}{577}\sqrt{8162}e^{14} + \frac{2}{577}\sqrt{24062}e^{26}$	$(-\frac{108}{577}, \frac{71}{577}, -\frac{33}{577}, \frac{142}{577}, \frac{246}{577}, -\frac{37}{577}, -\frac{141}{577}, \frac{38}{577}, \frac{34}{577})$ $+ \frac{2}{577}\sqrt{19186}e^5 \otimes e_9 + \frac{2}{577}\sqrt{35086}e^2 \otimes e_7$	{123489, 146789, 2456, 3457}
941:44	$0, 0, 0, 0, 0, \frac{1}{536}\sqrt{72615}e^{12}, \frac{1}{536}\sqrt{72615}e^{13}, \frac{103}{536}\sqrt{6}e^{23},$ $\frac{1}{536}\sqrt{21630}e^{14} + \frac{1}{268}\sqrt{20703}e^{26}$	$(\frac{33}{134}, -\frac{177}{1072}, \frac{91}{1072}, -\frac{177}{536}, \frac{33}{67}, \frac{87}{1072}, \frac{355}{1072}, -\frac{43}{536}, -\frac{45}{536})$ $+ \frac{1}{134}\sqrt{10506}e^1 \otimes e_4 + \frac{3}{268}\sqrt{3502}e^5 \otimes e_9$	{2345678, 2456, 3457, 458}
941:44	$0, 0, 0, 0, 0, \frac{8}{797}\sqrt{123}e^{12}, \frac{24}{797}\sqrt{5}e^{13}, \frac{4}{797}\sqrt{870}e^{23},$ $\frac{4}{797}\sqrt{870}e^{14} + \frac{8}{797}\sqrt{86}e^{26}$	$(-\frac{57}{797}, \frac{25}{797}, \frac{9}{797}, \frac{50}{797}, \frac{42}{797}, -\frac{32}{797}, -\frac{48}{797}, \frac{34}{797}, -\frac{7}{797})$ $+ \frac{16}{797}\sqrt{39}e^3 \otimes e_9 + \frac{4}{797}\sqrt{886}e^4 \otimes e_8$	{125689, 12689, 3568, 368}
941:44	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{30}e^{13}, \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{58}e^{14} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{42}e^5 \otimes e_8 - \frac{2}{25}\sqrt{15}e^4 \otimes e_7 + \frac{2}{25}\sqrt{21}e^3 \otimes e_9$	{126789, 1579, 2357, 3678}
941:44	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{30}e^{13}, \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{58}e^{14} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{42}e^5 \otimes e_8 + \frac{2}{25}\sqrt{15}e^4 \otimes e_7 + \frac{2}{25}\sqrt{21}e^3 \otimes e_9$	{126789, 1579, 2357, 3678}
941:44	$0, 0, 0, 0, 0, \frac{1}{1227}\sqrt{242222}e^{12}, \frac{4}{1227}\sqrt{431}e^{13}, \frac{1}{409}\sqrt{26722}e^{23},$ $\frac{1}{1227}\sqrt{83614}e^{14} + \frac{1}{1227}\sqrt{87062}e^{26}$	$(\frac{295}{1227}, \frac{6}{409}, -\frac{154}{1227}, \frac{12}{409}, -\frac{413}{1227}, \frac{313}{1227}, \frac{47}{409}, -\frac{136}{1227}, \frac{331}{1227})$ $+ \frac{2}{1227}\sqrt{117663}e^2 \otimes e_5 + \frac{2}{1227}\sqrt{118094}e^1 \otimes e_8$	{1239, 15679, 268, 3578}
941:44	$0, 0, 0, 0, 0, \frac{11}{1279}\sqrt{1146}e^{12}, \frac{66}{1279}\sqrt{69}e^{13}, \frac{11}{1279}\sqrt{690}e^{23},$ $\frac{11}{1279}\sqrt{1614}e^{14} + \frac{11}{1279}\sqrt{1974}e^{26}$	$(-\frac{209}{1279}, \frac{198}{1279}, \frac{44}{1279}, \frac{396}{1279}, -\frac{319}{1279}, -\frac{11}{1279}, -\frac{165}{1279}, \frac{242}{1279}, \frac{187}{1279})$ $+ \frac{22}{1279}\sqrt{1059}e^2 \otimes e_7 + \frac{22}{1279}\sqrt{669}e^3 \otimes e_5$	{12349, 145679, 24568, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:44	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{10}e^{12}, \frac{2}{17}\sqrt{10}e^{13}, \frac{6}{17}\sqrt{2}e^{23},$ $\frac{2}{17}\sqrt{22}e^{14} + \frac{2}{17}\sqrt{10}e^{26}$	$(0, \frac{1}{17}, -\frac{3}{17}, \frac{2}{17}, \frac{6}{17}, \frac{1}{17}, -\frac{3}{17}, -\frac{2}{17}, \frac{2}{17})$ $+ \frac{2}{17}\sqrt{10}e^5 \otimes e_9 + \frac{2}{17}\sqrt{2}e^2 \otimes e_7 + \frac{4}{17}\sqrt{6}e^4 \otimes e_8$	{2578, 3568}
941:44	$0, 0, 0, 0, 0, \frac{32}{373}\sqrt{35}e^{12}, \frac{32}{373}\sqrt{30}e^{13}, \frac{8}{373}\sqrt{1155}e^{23},$ $\frac{8}{373}\sqrt{1155}e^{14} + \frac{96}{373}\sqrt{5}e^{26}$	$(\frac{7}{373}, \frac{55}{373}, -\frac{105}{373}, \frac{110}{373}, \frac{62}{373}, \frac{62}{373}, -\frac{98}{373}, -\frac{50}{373}, \frac{117}{373})$ $+ \frac{32}{373}\sqrt{10}e^5 \otimes e_7 + \frac{8}{373}\sqrt{1555}e^4 \otimes e_8$	{125689, 13789, 278, 3568}
941:45	$0, 0, 0, 0, 0, \frac{1}{429}\sqrt{11914}e^{12}, \frac{2}{429}\sqrt{8533}e^{13}, \frac{1}{429}\sqrt{26726}e^{14},$ $\frac{1}{429}\sqrt{11914}e^{16} + \frac{46}{429}\sqrt{7}e^{23}$	$(-\frac{3}{143}, \frac{17}{143}, -\frac{6}{143}, \frac{134}{429}, -\frac{170}{429}, \frac{14}{429}, -\frac{9}{143}, \frac{125}{429}, \frac{1}{13})$ $+ \frac{2}{429}\sqrt{17066}e^1 \otimes e_5 + \frac{35}{429}\sqrt{46}e^4 \otimes e_7$	{12349, 1346, 235679, 357}
941:45	$0, 0, 0, 0, 0, \frac{2}{439}\sqrt{1173}e^{12}, \frac{1}{439}\sqrt{510}e^{13}, \frac{1}{439}\sqrt{7242}e^{14},$ $\frac{1}{439}\sqrt{2618}e^{16} + \frac{1}{439}\sqrt{7242}e^{23}$	$(\frac{14}{439}, -\frac{48}{439}, \frac{28}{439}, -\frac{3}{439}, \frac{27}{439}, -\frac{34}{439}, \frac{42}{439}, \frac{11}{439}, -\frac{20}{439})$ $+ \frac{1}{439}\sqrt{6222}e^4 \otimes e_9 + \frac{1}{439}\sqrt{7786}e^3 \otimes e_8$	{1256789, 126789, 4568, 468}
941:45	$0, 0, 0, 0, 0, \frac{12}{281}\sqrt{186}e^{12}, \frac{6}{281}\sqrt{186}e^{13}, \frac{2}{281}\sqrt{2170}e^{14},$ $\frac{18}{281}\sqrt{62}e^{16} + \frac{2}{281}\sqrt{2170}e^{23}$	$(\frac{19}{281}, \frac{38}{281}, \frac{38}{281}, -\frac{105}{281}, \frac{30}{281}, \frac{57}{281}, \frac{57}{281}, -\frac{86}{281}, \frac{76}{281})$ $+ \frac{18}{281}\sqrt{62}e^2 \otimes e_8 + \frac{4}{281}\sqrt{2635}e^1 \otimes e_4$	{12359, 1239, 2345679, 234679}
941:45	$0, 0, 0, 0, 0, \frac{17}{1097}\sqrt{21}e^{12}, \frac{17}{1097}\sqrt{137}e^{13}, \frac{17}{1097}\sqrt{655}e^{14},$ $\frac{34}{1097}\sqrt{38}e^{16} + \frac{34}{1097}\sqrt{163}e^{23}$	$(-\frac{85}{1097}, \frac{238}{1097}, -\frac{170}{1097}, \frac{34}{1097}, \frac{357}{1097}, \frac{153}{1097}, -\frac{255}{1097}, -\frac{51}{1097}, \frac{68}{1097})$ $+ \frac{119}{1097}\sqrt{11}e^5 \otimes e_9 + \frac{34}{1097}\sqrt{137}e^4 \otimes e_7 + \frac{34}{1097}\sqrt{233}e^2 \otimes e_8$	{12469, 279}
941:45	$0, 0, 0, 0, 0, \frac{3}{329}\sqrt{4958}e^{12}, \frac{6}{329}\sqrt{1961}e^{13}, \frac{6}{329}\sqrt{481}e^{14},$ $\frac{3}{329}\sqrt{4958}e^{16} + \frac{3}{329}\sqrt{8806}e^{23}$	$(\frac{52}{329}, -\frac{2}{329}, \frac{104}{329}, \frac{24}{329}, -\frac{229}{329}, \frac{50}{329}, \frac{156}{329}, \frac{76}{329}, \frac{102}{329})$ $+ \frac{9}{329}\sqrt{2294}e^3 \otimes e_5$	{1245679, 1256789, 1457, 1578, 24589, 259, 4568, 56}
941:45	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{102}e^{12}, \frac{4}{43}\sqrt{3}e^{13}, \frac{2}{43}\sqrt{78}e^{14},$ $\frac{10}{43}\sqrt{3}e^{16} + \frac{3}{43}\sqrt{14}e^{23}$	$(\frac{1}{43}, -\frac{3}{43}, \frac{2}{43}, \frac{14}{43}, -\frac{14}{43}, -\frac{2}{43}, \frac{3}{43}, \frac{15}{43}, -\frac{1}{43})$ $+ \frac{3}{43}\sqrt{62}e^1 \otimes e_5 + \frac{3}{43}\sqrt{66}e^4 \otimes e_9$	{1289, 146, 25679, 4578}
941:45	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{329}e^{12}, \frac{7}{43}\sqrt{3}e^{13}, \frac{1}{43}\sqrt{413}e^{14},$ $\frac{1}{43}\sqrt{210}e^{16} + \frac{1}{43}\sqrt{133}e^{23}$	$(\frac{3}{43}, -\frac{7}{86}, \frac{6}{43}, -\frac{11}{43}, \frac{33}{86}, -\frac{1}{86}, \frac{9}{43}, -\frac{8}{56}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{357}e^5 \otimes e_9 + \frac{1}{43}\sqrt{742}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:45	$0, 0, 0, 0, 0, \frac{2}{3125}\sqrt{18354}e^{12}, \frac{2}{3125}\sqrt{263235}e^{13}, \frac{42}{3125}\sqrt{1518}e^{14},$ $\frac{2}{3125}\sqrt{254058}e^{16} + \frac{14}{3125}\sqrt{9798}e^{23}$	$(-\frac{96}{3125}, \frac{917}{3125}, -\frac{192}{3125}, \frac{47}{3125}, -\frac{919}{3125}, \frac{821}{3125}, -\frac{288}{3125}, -\frac{49}{3125}, \frac{29}{125})$ $+ \frac{12}{3125}\sqrt{22701}e^2 \otimes e_8 + \frac{84}{3125}\sqrt{322}e^4 \otimes e_5$	{12347, 1356789, 2356, 3489}
941:45	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{57}e^{12}, \frac{4}{67}\sqrt{42}e^{13}, \frac{4}{67}\sqrt{3}e^{14},$ $\frac{4}{67}\sqrt{30}e^{16} + \frac{12}{67}e^{23}$	$(-\frac{2}{67}, \frac{18}{67}, -\frac{4}{67}, \frac{8}{67}, -\frac{26}{67}, \frac{16}{67}, -\frac{6}{67}, \frac{6}{67}, \frac{14}{67})$ $+ \frac{12}{67}\sqrt{11}e^1 \otimes e_5 + \frac{36}{67}e^2 \otimes e_7$	{123489, 1239, 3457, 3578}
941:45	$0, 0, 0, 0, 0, \frac{3}{137}\sqrt{390}e^{12}, \frac{1}{137}\sqrt{3354}e^{13}, \frac{1}{137}\sqrt{3198}e^{14},$ $\frac{1}{137}\sqrt{390}e^{16} + \frac{1}{137}\sqrt{3198}e^{23}$	$(\frac{4}{137}, \frac{6}{137}, \frac{8}{137}, -\frac{35}{137}, \frac{51}{137}, \frac{10}{137}, \frac{12}{137}, -\frac{31}{137}, \frac{14}{137})$ $+ \frac{1}{137}\sqrt{3198}e^5 \otimes e_7 + \frac{2}{137}\sqrt{1677}e^1 \otimes e_4$	{12359, 1356, 234679, 347}
941:45	$0, 0, 0, 0, 0, \frac{24}{3233}\sqrt{179}e^{12}, \frac{2}{3233}\sqrt{520890}e^{13}, \frac{4}{3233}\sqrt{5370}e^{14},$ $\frac{14}{3233}\sqrt{5907}e^{16} + \frac{10}{3233}\sqrt{20406}e^{23}$	$(-\frac{80}{3233}, \frac{834}{3233}, -\frac{160}{3233}, \frac{303}{3233}, -\frac{1234}{3233}, \frac{754}{3233}, -\frac{240}{3233}, \frac{223}{3233}, \frac{674}{3233})$ $+ \frac{6}{3233}\sqrt{87889}e^2 \otimes e_7 + \frac{6}{3233}\sqrt{89321}e^3 \otimes e_5$	{14578, 157, 2459, 2589}
941:45	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{6}e^{12}, \frac{9}{233}\sqrt{30}e^{13}, \frac{1}{233}\sqrt{3570}e^{14},$ $\frac{5}{233}\sqrt{6}e^{16} + \frac{1}{233}\sqrt{3570}e^{23}$	$(-\frac{10}{233}, \frac{28}{233}, -\frac{20}{233}, \frac{23}{233}, -\frac{15}{233}, \frac{18}{233}, -\frac{30}{233}, \frac{13}{233}, \frac{8}{233})$ $+ \frac{2}{233}\sqrt{930}e^2 \otimes e_8 + \frac{2}{233}\sqrt{930}e^4 \otimes e_9 + \frac{3}{233}\sqrt{110}e^5 \otimes e_7$	{2579, 45678}
941:45	$0, 0, 0, 0, 0, \frac{2}{2441}\sqrt{101010}e^{12}, \frac{2}{2441}\sqrt{205905}e^{13}, \frac{12}{2441}\sqrt{8029}e^{14},$ $\frac{18}{2441}\sqrt{2590}e^{16} + \frac{2}{2441}\sqrt{350427}e^{23}$	$(-\frac{219}{2441}, \frac{897}{2441}, -\frac{438}{2441}, -\frac{94}{2441}, \frac{1241}{2441}, \frac{678}{2441}, -\frac{657}{2441}, -\frac{313}{2441}, \frac{459}{2441})$ $+ \frac{120}{2441}\sqrt{259}e^2 \otimes e_7 + \frac{6}{2441}\sqrt{83139}e^5 \otimes e_8$	{12345, 1238, 34789, 3579}
941:45	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{48990}e^{12}, \frac{1}{343}\sqrt{57270}e^{13}, \frac{12}{343}\sqrt{115}e^{14},$ $\frac{12}{343}\sqrt{115}e^{16} + \frac{1}{343}\sqrt{48990}e^{23}$	$(-\frac{48}{343}, \frac{201}{343}, -\frac{96}{343}, \frac{82}{343}, \frac{58}{343}, \frac{153}{343}, -\frac{144}{343}, \frac{34}{343}, \frac{15}{49})$ $+ \frac{15}{343}\sqrt{874}e^2 \otimes e_7$	{123, 123458, 12348, 1235, 34579, 3479, 35789, 3789}
941:45	$0, 0, 0, 0, 0, \frac{2}{3125}\sqrt{254058}e^{12}, \frac{2}{3125}\sqrt{263235}e^{13}, \frac{42}{3125}\sqrt{1518}e^{14},$ $\frac{2}{3125}\sqrt{18354}e^{16} + \frac{14}{3125}\sqrt{9798}e^{23}$	$(-\frac{96}{3125}, -\frac{211}{3125}, -\frac{192}{3125}, \frac{563}{3125}, \frac{1433}{3125}, -\frac{307}{3125}, -\frac{288}{3125}, \frac{467}{3125}, -\frac{403}{3125})$ $+ \frac{12}{3125}\sqrt{22701}e^4 \otimes e_9 + \frac{84}{3125}\sqrt{322}e^5 \otimes e_8$	{1234567, 13789, 2348, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:45	$0, 0, 0, 0, 0, \frac{21}{131}\sqrt{6e^{12}}, \frac{1}{131}\sqrt{2310e^{13}}, \frac{1}{131}\sqrt{4242e^{14}},$ $\frac{2}{131}\sqrt{105e^{16}} + \frac{2}{131}\sqrt{966e^{23}}$	$(-\frac{11}{131}, \frac{15}{262}, -\frac{22}{131}, \frac{51}{131}, \frac{139}{262}, -\frac{7}{262}, -\frac{33}{131}, \frac{40}{131}, -\frac{29}{262})$ $+\frac{3}{131}\sqrt{1022e^5} \otimes e_9 + \frac{6}{131}\sqrt{287e^4} \otimes e_7$	{123456, 1349, 2357, 3679}
941:45	$0, 0, 0, 0, 0, \frac{6}{169}\sqrt{182e^{12}}, \frac{6}{169}\sqrt{259e^{13}}, \frac{42}{169}\sqrt{10e^{14}},$ $\frac{6}{169}\sqrt{154e^{16}} + \frac{42}{169}\sqrt{10e^{23}}$	$(-\frac{4}{169}, -\frac{19}{169}, -\frac{8}{169}, \frac{99}{169}, \frac{25}{169}, -\frac{23}{169}, -\frac{12}{169}, \frac{95}{169}, -\frac{27}{169})$ $+\frac{72}{169}\sqrt{7e^4} \otimes e_9$	{1234567, 123467, 135789, 13789, 23458, 2348, 3569, 369}
941:45	$0, 0, 0, 0, 0, \frac{1}{337}\sqrt{1722e^{12}}, \frac{1}{337}\sqrt{16851e^{13}}, \frac{3}{337}\sqrt{2255e^{14}},$ $\frac{1}{337}\sqrt{5781e^{16}} + \frac{5}{337}\sqrt{1230e^{23}}$	$(-\frac{12}{337}, \frac{28}{337}, -\frac{24}{337}, \frac{127}{337}, -\frac{95}{337}, \frac{16}{337}, -\frac{36}{337}, \frac{115}{337}, \frac{4}{337})$ $+\frac{3}{337}\sqrt{3485e^2} \otimes e_5 + \frac{3}{337}\sqrt{4838e^4} \otimes e_9$	{1289, 1456, 2679, 4578}
941:45	$0, 0, 0, 0, 0, \frac{60}{2411}\sqrt{35e^{12}}, \frac{30}{2411}\sqrt{62e^{13}}, \frac{30}{2411}\sqrt{1318e^{14}},$ $\frac{30}{2411}\sqrt{962e^{16}} + \frac{30}{2411}\sqrt{1954e^{23}}$	$(\frac{85}{2411}, \frac{550}{2411}, \frac{170}{2411}, -\frac{435}{2411}, -\frac{730}{2411}, \frac{635}{2411}, \frac{255}{2411}, -\frac{350}{2411}, \frac{720}{2411})$ $+\frac{180}{2411}\sqrt{53e^3} \otimes e_5 + \frac{90}{2411}\sqrt{274e^2} \otimes e_8$	{1245679, 1578, 259, 4568}
941:45	$0, 0, 0, 0, 0, \frac{1}{337}\sqrt{5781e^{12}}, \frac{1}{337}\sqrt{16851e^{13}}, \frac{3}{337}\sqrt{2255e^{14}},$ $\frac{1}{337}\sqrt{1722e^{16}} + \frac{5}{337}\sqrt{1230e^{23}}$	$(-\frac{12}{337}, \frac{61}{337}, -\frac{24}{337}, -\frac{50}{337}, \frac{160}{337}, \frac{49}{337}, -\frac{36}{337}, -\frac{62}{337}, \frac{37}{337})$ $+\frac{3}{337}\sqrt{3485e^5} \otimes e_9 + \frac{3}{337}\sqrt{4838e^2} \otimes e_8$	{1249, 1568, 2679, 4578}
941:45	$0, 0, 0, 0, 0, \frac{2}{241}\sqrt{1162e^{12}}, \frac{6}{241}\sqrt{249e^{13}}, \frac{9}{241}\sqrt{166e^{14}},$ $\frac{2}{241}\sqrt{1162e^{16}} + \frac{6}{241}\sqrt{249e^{23}}$	$(\frac{26}{241}, -\frac{2}{241}, \frac{52}{241}, -\frac{57}{241}, -\frac{57}{241}, \frac{24}{241}, \frac{78}{241}, -\frac{31}{241}, \frac{50}{241})$ $+\frac{4}{241}\sqrt{1411e^3} \otimes e_8 + \frac{9}{241}\sqrt{166e^1} \otimes e_5$	{126789, 178, 24589, 4568}
941:45	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{413e^{12}}, \frac{7}{43}\sqrt{3e^{13}}, \frac{1}{43}\sqrt{329e^{14}},$ $\frac{2}{43}\sqrt{133e^{16}} + \frac{1}{43}\sqrt{210e^{23}}$	$(\frac{3}{43}, -\frac{7}{86}, \frac{6}{43}, -\frac{11}{43}, \frac{33}{86}, -\frac{1}{86}, \frac{9}{43}, -\frac{8}{43}, \frac{5}{86})$ $+\frac{1}{43}\sqrt{357e^5} \otimes e_9 + \frac{1}{43}\sqrt{742e^1} \otimes e_4$	{1239, 1356, 234679, 3457}
941:45	$0, 0, 0, 0, 0, \frac{40}{683}\sqrt{14e^{12}}, \frac{5}{683}\sqrt{854e^{13}}, \frac{5}{683}\sqrt{3206e^{14}},$ $\frac{10}{683}\sqrt{21e^{16}} + \frac{10}{683}\sqrt{714e^{23}}$	$(-\frac{45}{683}, \frac{40}{683}, -\frac{90}{683}, \frac{125}{683}, \frac{255}{683}, -\frac{5}{683}, -\frac{135}{683}, \frac{80}{683}, -\frac{50}{683})$ $+\frac{10}{683}\sqrt{707e^5} \otimes e_8 + \frac{35}{683}\sqrt{86e^4} \otimes e_9 + \frac{5}{683}\sqrt{1778e^2} \otimes e_7$	{12689, 4678}
941:45	$0, 0, 0, 0, 0, \frac{3}{329}\sqrt{4958e^{12}}, \frac{6}{329}\sqrt{1961e^{13}}, \frac{3}{329}\sqrt{8806e^{14}},$ $\frac{3}{329}\sqrt{4958e^{16}} + \frac{6}{329}\sqrt{481e^{23}}$	$(-\frac{41}{329}, \frac{13}{47}, -\frac{82}{329}, \frac{30}{47}, \frac{50}{329}, \frac{50}{329}, -\frac{123}{329}, \frac{169}{329}, \frac{9}{329})$ $+\frac{9}{329}\sqrt{2294e^4} \otimes e_7$	{1256789, 126789, 1578, 178, 24589, 2489, 4568, 468}
941:45	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{598e^{12}}, \frac{1}{115}\sqrt{1518e^{13}}, \frac{1}{115}\sqrt{1886e^{14}},$ $\frac{2}{115}\sqrt{437e^{16}} + \frac{4}{115}\sqrt{69e^{23}}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+\frac{1}{115}\sqrt{3358e^1} \otimes e_4 + \frac{2}{115}\sqrt{483e^2} \otimes e_7 + \frac{3}{115}\sqrt{46e^5} \otimes e_8$	{1239, 347}
941:45	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{510e^{12}}, \frac{2}{83}\sqrt{255e^{13}}, \frac{12}{83}\sqrt{51e^{14}},$ $\frac{2}{83}\sqrt{510e^{16}} + \frac{2}{83}\sqrt{663e^{23}}$	$(\frac{3}{83}, \frac{11}{83}, \frac{6}{83}, \frac{47}{83}, -\frac{55}{83}, \frac{14}{83}, \frac{9}{83}, \frac{50}{83}, \frac{17}{83})$ $+\frac{6}{83}\sqrt{391e^4} \otimes e_5$	{12469, 125689, 14, 158, 24789, 2579, 4678, 567}
941:45	$0, 0, 0, 0, 0, \frac{2}{971}\sqrt{26062e^{12}}, \frac{6}{971}\sqrt{1245e^{13}}, \frac{4}{971}\sqrt{10126e^{14}},$ $\frac{2}{971}\sqrt{26062e^{16}} + \frac{2}{971}\sqrt{31457e^{23}}$	$(\frac{65}{971}, -\frac{5}{971}, \frac{130}{971}, -\frac{101}{971}, -\frac{267}{971}, \frac{60}{971}, \frac{195}{971}, -\frac{36}{971}, \frac{125}{971})$ $+\frac{2}{971}\sqrt{27141e^4} \otimes e_5 + \frac{4}{971}\sqrt{12118e^3} \otimes e_8$	{1256789, 1578, 2489, 468}
941:45	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{46e^{12}}, \frac{1}{65}\sqrt{39e^{13}}, \frac{1}{65}\sqrt{61e^{14}},$ $\frac{1}{65}\sqrt{46e^{16}} + \frac{2}{65}\sqrt{11e^{23}}$	$(-\frac{1}{65}, \frac{4}{65}, -\frac{2}{65}, -\frac{2}{65}, \frac{3}{65}, \frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{2}{65})$ $+\frac{1}{65}\sqrt{51e^4} \otimes e_7 + \frac{1}{65}\sqrt{73e^3} \otimes e_8$	{1256789, 126789, 1578, 178, 24589, 2489, 4568, 468}
941:45	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{46e^{12}}, \frac{1}{65}\sqrt{39e^{13}}, \frac{1}{65}\sqrt{61e^{14}},$ $\frac{1}{65}\sqrt{46e^{16}} + \frac{2}{65}\sqrt{11e^{23}}$	$(-\frac{1}{65}, \frac{4}{65}, -\frac{2}{65}, -\frac{2}{65}, \frac{3}{65}, \frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{2}{65})$ $-\frac{1}{65}\sqrt{51e^4} \otimes e_7 + \frac{1}{65}\sqrt{73e^3} \otimes e_8$	{1256789, 126789, 1578, 178, 24589, 2489, 4568, 468}
941:45	$0, 0, 0, 0, 0, \frac{1}{267}\sqrt{12190e^{12}}, \frac{20}{267}\sqrt{23e^{13}}, \frac{1}{267}\sqrt{25530e^{14}},$ $\frac{1}{267}\sqrt{12190e^{16}} + \frac{1}{267}\sqrt{6670e^{23}}$	$(-\frac{8}{89}, \frac{15}{89}, -\frac{16}{89}, \frac{43}{267}, \frac{134}{267}, \frac{7}{89}, -\frac{24}{89}, \frac{19}{267}, -\frac{1}{89})$ $+\frac{1}{267}\sqrt{25990e^5} \otimes e_8 + \frac{1}{267}\sqrt{30590e^4} \otimes e_7$	{126789, 178, 2489, 468}
941:45	$0, 0, 0, 0, 0, \frac{10}{43}\sqrt{3e^{12}}, \frac{4}{43}\sqrt{3e^{13}}, \frac{2}{43}\sqrt{78e^{14}},$ $\frac{1}{43}\sqrt{102e^{16}} + \frac{3}{43}\sqrt{14e^{23}}$	$(\frac{1}{43}, \frac{51}{215}, \frac{2}{43}, -\frac{29}{215}, -\frac{14}{43}, \frac{56}{215}, \frac{3}{43}, -\frac{24}{215}, \frac{61}{215})$ $+\frac{3}{43}\sqrt{62e^1} \otimes e_5 + \frac{3}{43}\sqrt{66e^2} \otimes e_8$	{1249, 168, 25679, 4578}
941:45	$0, 0, 0, 0, 0, \frac{2}{69}\sqrt{6e^{12}}, \frac{2}{69}\sqrt{51e^{13}}, \frac{2}{23}\sqrt{10e^{14}},$ $\frac{2}{69}\sqrt{6e^{16}} + \frac{2}{23}\sqrt{10e^{23}}$	$(-\frac{4}{69}, \frac{3}{23}, -\frac{8}{69}, \frac{7}{69}, \frac{5}{69}, \frac{5}{69}, -\frac{4}{23}, \frac{1}{23}, \frac{1}{69})$ $+\frac{8}{69}\sqrt{6e^2} \otimes e_8 + \frac{8}{69}\sqrt{6e^4} \otimes e_9$	{2579, 279, 45678, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:45	$0, 0, 0, 0, 0, \frac{1}{1069}\sqrt{10626e^{12}}, \frac{1}{1069}\sqrt{29946e^{13}}, \frac{56}{1069}\sqrt{69e^{14}},$ $\frac{4}{1069}\sqrt{2415e^{16}} + \frac{21}{1069}\sqrt{782e^{23}}$	$(-\frac{104}{1069}, \frac{171}{1069}, -\frac{208}{1069}, \frac{446}{1069}, \frac{118}{1069}, \frac{67}{1069}, -\frac{312}{1069}, \frac{342}{1069}, -\frac{37}{1069})$ $+ \frac{21}{1069}\sqrt{874e^2} \otimes e_7 + \frac{276}{1069}\sqrt{7e^4} \otimes e_9$	{135789, 13789, 23458, 2348}
941:45	$0, 0, 0, 0, 0, \frac{24}{823}\sqrt{85e^{12}}, \frac{2}{823}\sqrt{18105e^{13}}, \frac{4}{823}\sqrt{5015e^{14}},$ $\frac{2}{823}\sqrt{20315e^{16}} + \frac{2}{823}\sqrt{28135e^{23}}$	$(-\frac{3}{823}, \frac{161}{823}, -\frac{6}{823}, -\frac{173}{823}, \frac{63}{823}, \frac{158}{823}, -\frac{9}{823}, -\frac{176}{823}, \frac{155}{823})$ $+ \frac{10}{823}\sqrt{1615e^3} \otimes e_8 + \frac{10}{823}\sqrt{969e^2} \otimes e_7$	{1578, 178, 24589, 2489}
941:45	$0, 0, 0, 0, 0, \frac{6}{169}\sqrt{154e^{12}}, \frac{6}{169}\sqrt{259e^{13}}, \frac{42}{169}\sqrt{10e^{14}},$ $\frac{6}{169}\sqrt{182e^{16}} + \frac{42}{169}\sqrt{10e^{23}}$	$(-\frac{4}{169}, \frac{77}{169}, -\frac{8}{169}, -\frac{45}{169}, \frac{25}{169}, \frac{73}{169}, -\frac{12}{169}, -\frac{49}{169}, \frac{69}{169})$ $+ \frac{72}{169}\sqrt{7e^2} \otimes e_8$	{123457, 12347, 1356789, 136789, 2356, 236, 34589, 3489}
941:45	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{7770e^{12}}, \frac{1}{311}\sqrt{2590e^{13}}, \frac{1}{311}\sqrt{30710e^{14}},$ $\frac{1}{311}\sqrt{15170e^{16}} + \frac{1}{311}\sqrt{30710e^{23}}$	$(-\frac{20}{311}, \frac{118}{311}, -\frac{40}{311}, -\frac{47}{311}, \frac{125}{311}, \frac{98}{311}, -\frac{60}{311}, -\frac{67}{311}, \frac{78}{311})$ $+ \frac{1}{311}\sqrt{32930e^5} \otimes e_7 + \frac{2}{311}\sqrt{17205e^2} \otimes e_8$	{12347, 136789, 2356, 34589}
941:45	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{105e^{12}}, \frac{1}{131}\sqrt{2310e^{13}}, \frac{1}{131}\sqrt{4242e^{14}},$ $\frac{21}{131}\sqrt{6e^{16}} + \frac{2}{131}\sqrt{966e^{23}}$	$(-\frac{11}{131}, \frac{44}{131}, -\frac{22}{131}, \frac{51}{131}, -\frac{40}{131}, \frac{33}{131}, -\frac{33}{131}, \frac{40}{131}, \frac{22}{131})$ $+ \frac{3}{131}\sqrt{1022e^2} \otimes e_5 + \frac{6}{131}\sqrt{287e^4} \otimes e_7$	{1234, 134569, 2367, 3579}
941:45	$0, 0, 0, 0, 0, \frac{13}{1121}\sqrt{331e^{12}}, \frac{117}{1121}\sqrt{5e^{13}}, \frac{13}{1121}\sqrt{517e^{14}},$ $\frac{26}{1121}\sqrt{103e^{16}} + \frac{26}{1121}\sqrt{215e^{23}}$	$(-\frac{13}{1121}, \frac{130}{1121}, -\frac{26}{1121}, \frac{182}{1121}, \frac{273}{1121}, \frac{117}{1121}, -\frac{39}{1121}, \frac{195}{1121}, \frac{104}{1121})$ $+ \frac{13}{1121}\sqrt{393e^5} \otimes e_9 + \frac{26}{1121}\sqrt{159e^2} \otimes e_7 + \frac{26}{1121}\sqrt{265e^3} \otimes e_8$	{1578, 2489}
941:45	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{3198e^{12}}, \frac{1}{137}\sqrt{3354e^{13}}, \frac{3}{137}\sqrt{390e^{14}},$ $\frac{1}{137}\sqrt{3198e^{16}} + \frac{3}{137}\sqrt{390e^{23}}$	$(\frac{4}{137}, \frac{6}{137}, \frac{8}{137}, -\frac{35}{137}, \frac{51}{137}, \frac{10}{137}, \frac{12}{137}, -\frac{31}{137}, \frac{14}{137})$ $+ \frac{1}{137}\sqrt{3198e^5} \otimes e_7 + \frac{2}{137}\sqrt{1677e^3} \otimes e_8$	{126789, 178, 24589, 4568}
941:45	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{210e^{12}}, \frac{7}{43}\sqrt{3e^{13}}, \frac{1}{43}\sqrt{413e^{14}},$ $\frac{1}{43}\sqrt{329e^{16}} + \frac{2}{43}\sqrt{133e^{23}}$	$(\frac{3}{43}, \frac{5}{43}, \frac{6}{43}, -\frac{11}{43}, -\frac{9}{43}, \frac{8}{43}, \frac{9}{43}, -\frac{8}{43}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{357e^2} \otimes e_5 + \frac{1}{43}\sqrt{742e^3} \otimes e_8$	{126789, 1578, 2489, 4568}
941:45	$0, 0, 0, 0, 0, \frac{11}{449}\sqrt{219e^{12}}, \frac{33}{449}e^{13}, \frac{33}{449}\sqrt{5e^{14}},$ $\frac{22}{449}\sqrt{57e^{16}} + \frac{22}{449}\sqrt{10e^{23}}$	$(\frac{11}{449}, \frac{22}{449}, \frac{22}{449}, -\frac{110}{449}, \frac{165}{449}, \frac{33}{449}, \frac{33}{449}, -\frac{99}{449}, \frac{44}{449})$ $+ \frac{11}{449}\sqrt{255e^5} \otimes e_9 + \frac{22}{449}\sqrt{57e^2} \otimes e_8 + \frac{22}{449}\sqrt{85e^1} \otimes e_4$	{129, 24679}
941:45	$0, 0, 0, 0, 0, \frac{60}{2411}\sqrt{35e^{12}}, \frac{30}{2411}\sqrt{62e^{13}}, \frac{30}{2411}\sqrt{1954e^{14}},$ $\frac{30}{2411}\sqrt{962e^{16}} + \frac{30}{2411}\sqrt{1318e^{23}}$	$(-\frac{233}{2411}, \frac{868}{2411}, -\frac{466}{2411}, \frac{201}{2411}, \frac{224}{2411}, \frac{635}{2411}, -\frac{699}{2411}, -\frac{32}{2411}, \frac{402}{2411})$ $+ \frac{180}{2411}\sqrt{53e^4} \otimes e_7 + \frac{90}{2411}\sqrt{274e^2} \otimes e_8$	{1578, 178, 4568, 468}
941:45	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{21e^{12}}, \frac{1}{14}\sqrt{42e^{13}}, \frac{1}{7}\sqrt{14e^{14}},$ $\frac{1}{7}\sqrt{21e^{16}} + \frac{3}{14}\sqrt{7e^{23}}$	$(\frac{3}{28}, 0, \frac{3}{14}, -\frac{11}{28}, \frac{3}{14}, \frac{3}{28}, \frac{9}{28}, -\frac{2}{7}, \frac{3}{14})$ $+ \frac{1}{14}\sqrt{154e^1} \otimes e_4 + \frac{1}{14}\sqrt{21e^5} \otimes e_8$	{12359, 1356, 2345679, 3457}
941:45	$0, 0, 0, 0, 0, \frac{351}{1121}e^{12}, \frac{117}{1121}\sqrt{5e^{13}}, \frac{13}{1121}\sqrt{543e^{14}},$ $\frac{234}{1121}\sqrt{2e^{16}} + \frac{130}{1121}\sqrt{2e^{23}}$	$(-\frac{13}{1121}, \frac{130}{1121}, -\frac{26}{1121}, \frac{182}{1121}, \frac{273}{1121}, \frac{117}{1121}, -\frac{39}{1121}, \frac{195}{1121}, \frac{104}{1121})$ $+ \frac{13}{1121}\sqrt{393e^5} \otimes e_9 + \frac{26}{1121}\sqrt{159e^2} \otimes e_7 + \frac{26}{1121}\sqrt{265e^1} \otimes e_4$	{1239, 3457}
941:45	$0, 0, 0, 0, 0, \frac{16}{67}\sqrt{3e^{12}}, \frac{4}{67}\sqrt{69e^{13}}, \frac{12}{67}\sqrt{5e^{14}},$ $\frac{16}{67}\sqrt{3e^{16}} + \frac{12}{67}\sqrt{5e^{23}}$	$(-\frac{1}{67}, \frac{6}{67}, -\frac{2}{67}, \frac{21}{67}, -\frac{26}{67}, \frac{5}{67}, -\frac{3}{67}, \frac{20}{67}, \frac{4}{67})$ $+ \frac{4}{67}\sqrt{93e^3} \otimes e_5 + \frac{4}{67}\sqrt{93e^4} \otimes e_7$	{1256789, 1578, 24589, 4568}
941:45	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{39e^{12}}, \frac{1}{85}\sqrt{30e^{13}}, \frac{3}{85}\sqrt{26e^{14}},$ $\frac{3}{85}\sqrt{10e^{16}} + \frac{3}{85}\sqrt{26e^{23}}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, -\frac{1}{85}, \frac{9}{85}, -\frac{6}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{4}{85})$ $+ \frac{1}{85}\sqrt{258e^3} \otimes e_8 + \frac{2}{85}\sqrt{6e^5} \otimes e_7 + \frac{3}{85}\sqrt{22e^4} \otimes e_9$	{126789, 4568}
941:45	$0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31e^{12}}, \frac{1}{85}\sqrt{2139e^{13}}, \frac{1}{85}\sqrt{93e^{14}},$ $\frac{1}{85}\sqrt{93e^{16}} + \frac{12}{85}\sqrt{31e^{23}}$	$(\frac{1}{85}, \frac{37}{85}, \frac{2}{85}, \frac{14}{85}, -\frac{56}{85}, \frac{38}{85}, \frac{3}{85}, \frac{3}{17}, \frac{39}{85})$ $+ \frac{3}{85}\sqrt{1457e^2} \otimes e_5$	{1249, 1289, 1456, 1568, 246789, 2679, 4578, 57}
941:45	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{1390e^{12}}, \frac{1}{109}\sqrt{11954e^{13}}, \frac{1}{109}\sqrt{1390e^{14}},$ $\frac{1}{109}\sqrt{1390e^{16}} + \frac{1}{109}\sqrt{1390e^{23}}$	$(-\frac{10}{109}, \frac{28}{109}, -\frac{20}{109}, \frac{23}{109}, 1, \frac{18}{109}, -\frac{30}{109}, \frac{13}{109}, \frac{8}{109})$ $+ \frac{1}{109}\sqrt{25298e^5} \otimes e_7$	{12345689, 123569, 13458, 135, 23479, 23789, 3467, 3678}
941:45	$0, 0, 0, 0, 0, \frac{14}{473}\sqrt{282e^{12}}, \frac{28}{473}\sqrt{66e^{13}}, \frac{14}{473}\sqrt{246e^{14}},$ $\frac{14}{473}\sqrt{282e^{16}} + \frac{28}{473}\sqrt{41e^{23}}$	$(\frac{59}{473}, -\frac{14}{473}, \frac{118}{473}, -\frac{137}{473}, -\frac{78}{473}, \frac{45}{473}, \frac{177}{473}, -\frac{78}{473}, \frac{104}{473})$ $+ \frac{14}{473}\sqrt{246e^3} \otimes e_5 + \frac{14}{473}\sqrt{610e^1} \otimes e_4$	{1239, 136, 234679, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:45	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{15834}e^{12}, \frac{2}{347}\sqrt{7917}e^{13}, \frac{1}{347}\sqrt{10374}e^{14},$ $\frac{2}{347}\sqrt{15834}e^{16} + \frac{78}{347}\sqrt{7}e^{23}$	$(\frac{38}{347}, \frac{18}{347}, \frac{76}{347}, \frac{37}{347}, -\frac{235}{347}, \frac{56}{347}, \frac{114}{347}, \frac{75}{347}, \frac{94}{347})$ $+\frac{3}{347}\sqrt{17654}e^1 \otimes e_5$	{12349, 12389, 1346, 1368, 23456789, 235679, 34578, 357}
941:45	$0, 0, 0, 0, 0, \frac{6}{107}\sqrt{165}e^{12}, \frac{3}{107}\sqrt{330}e^{13}, \frac{1}{107}\sqrt{4510}e^{14},$ $\frac{6}{107}\sqrt{165}e^{16} + \frac{1}{107}\sqrt{4510}e^{23}$	$(\frac{13}{107}, -\frac{1}{107}, \frac{26}{107}, -\frac{42}{107}, \frac{12}{107}, \frac{12}{107}, \frac{39}{107}, -\frac{29}{107}, \frac{25}{107})$ $+\frac{5}{107}\sqrt{418}e^1 \otimes e_4$	{12359, 1239, 1356, 136, 2345679, 234679, 3457, 347}
941:45	$0, 0, 0, 0, 0, \frac{6}{343}\sqrt{354}e^{12}, \frac{2}{343}\sqrt{1770}e^{13}, \frac{1}{343}\sqrt{6018}e^{14},$ $\frac{6}{343}\sqrt{177}e^{16} + \frac{1}{343}\sqrt{30090}e^{23}$	$(-\frac{34}{343}, \frac{75}{343}, -\frac{68}{343}, \frac{54}{343}, \frac{184}{343}, \frac{41}{343}, -\frac{102}{343}, \frac{20}{343}, \frac{1}{49})$ $+\frac{3}{343}\sqrt{6254}e^2 \otimes e_7 + \frac{3}{49}\sqrt{118}e^5 \otimes e_9$	{145678, 1567, 2469, 2689}
941:45	$0, 0, 0, 0, 0, \frac{2}{83}\sqrt{510}e^{12}, \frac{2}{83}\sqrt{255}e^{13}, \frac{12}{83}\sqrt{51}e^{14},$ $\frac{2}{83}\sqrt{510}e^{16} + \frac{2}{83}\sqrt{663}e^{23}$	$(\frac{3}{83}, \frac{11}{83}, \frac{6}{83}, -\frac{22}{83}, \frac{1}{83}, \frac{14}{83}, \frac{9}{83}, -\frac{19}{83}, \frac{17}{83})$ $+\frac{6}{83}\sqrt{391}e^5 \otimes e_8$	{124569, 12689, 145, 18, 24789, 2579, 4678, 567}
941:45	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{133}e^{12}, \frac{7}{43}\sqrt{3}e^{13}, \frac{1}{43}\sqrt{329}e^{14},$ $\frac{4}{43}\sqrt{413}e^{16} + \frac{1}{43}\sqrt{210}e^{23}$	$(\frac{3}{43}, \frac{5}{43}, \frac{6}{43}, -\frac{11}{43}, -\frac{9}{43}, \frac{8}{43}, \frac{9}{43}, -\frac{8}{43}, \frac{11}{43})$ $+\frac{1}{43}\sqrt{357}e^2 \otimes e_5 + \frac{1}{43}\sqrt{742}e^1 \otimes e_4$	{1239, 1356, 234679, 3457}
941:45	$0, 0, 0, 0, 0, \frac{7}{517}\sqrt{1002}e^{12}, \frac{7}{517}\sqrt{930}e^{13}, \frac{7}{517}\sqrt{870}e^{14},$ $\frac{7}{517}\sqrt{978}e^{16} + \frac{7}{517}\sqrt{870}e^{23}$	$(\frac{14}{517}, \frac{28}{517}, \frac{28}{517}, -\frac{133}{517}, \frac{189}{517}, \frac{42}{517}, \frac{42}{517}, -\frac{119}{517}, \frac{56}{517})$ $+\frac{14}{517}\sqrt{474}e^1 \otimes e_4 + \frac{42}{517}\sqrt{2}e^2 \otimes e_8 + \frac{7}{517}\sqrt{906}e^5 \otimes e_7$	{12359, 234679}
941:45	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{93}e^{12}, \frac{1}{85}\sqrt{2139}e^{13}, \frac{1}{85}\sqrt{93}e^{14},$ $\frac{12}{85}\sqrt{31}e^{16} + \frac{12}{85}\sqrt{31}e^{23}$	$(\frac{1}{85}, -\frac{2}{17}, \frac{2}{85}, \frac{14}{85}, \frac{1}{85}, -\frac{9}{85}, \frac{3}{85}, \frac{3}{17}, -\frac{8}{85})$ $+\frac{3}{85}\sqrt{1457}e^5 \otimes e_9$	{1249, 1289, 1456, 1568, 246789, 2679, 4578, 57}
941:45	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170}e^{12}, \frac{1}{311}\sqrt{2590}e^{13}, \frac{1}{311}\sqrt{30710}e^{14},$ $\frac{1}{311}\sqrt{7770}e^{16} + \frac{1}{311}\sqrt{30710}e^{23}$	$(-\frac{20}{311}, -\frac{6}{311}, -\frac{40}{311}, \frac{139}{311}, \frac{125}{311}, -\frac{26}{311}, -\frac{60}{311}, \frac{119}{311}, -\frac{46}{311})$ $+\frac{1}{311}\sqrt{32930}e^5 \otimes e_7 + \frac{2}{311}\sqrt{17205}e^4 \otimes e_9$	{123467, 13789, 23458, 3569}
941:45	$0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{962}e^{12}, \frac{30}{2411}\sqrt{62}e^{13}, \frac{30}{2411}\sqrt{1318}e^{14},$ $\frac{60}{2411}\sqrt{35}e^{16} + \frac{30}{2411}\sqrt{1954}e^{23}$	$(\frac{85}{2411}, -\frac{272}{2411}, \frac{170}{2411}, \frac{798}{2411}, -\frac{730}{2411}, -\frac{187}{2411}, \frac{255}{2411}, \frac{883}{2411}, -\frac{102}{2411})$ $+\frac{180}{2411}\sqrt{53}e^3 \otimes e_5 + \frac{90}{2411}\sqrt{274}e^4 \otimes e_9$	{1256789, 1457, 259, 4568}
941:45	$0, 0, 0, 0, 0, \frac{2}{823}\sqrt{28135}e^{12}, \frac{2}{823}\sqrt{18105}e^{13}, \frac{2}{823}\sqrt{20315}e^{14},$ $\frac{4}{823}\sqrt{5015}e^{16} + \frac{24}{823}\sqrt{85}e^{23}$	$(-\frac{3}{823}, \frac{161}{823}, -\frac{6}{823}, -\frac{173}{823}, \frac{63}{823}, \frac{158}{823}, -\frac{9}{823}, -\frac{176}{823}, \frac{155}{823})$ $+\frac{10}{823}\sqrt{1615}e^1 \otimes e_4 + \frac{10}{823}\sqrt{969}e^2 \otimes e_7$	{12359, 1239, 3457, 347}
941:45	$0, 0, 0, 0, 0, \frac{2}{2441}\sqrt{101010}e^{12}, \frac{2}{2441}\sqrt{205905}e^{13}, \frac{12}{2441}\sqrt{8029}e^{14},$ $\frac{18}{2441}\sqrt{2590}e^{16} + \frac{2}{2441}\sqrt{350427}e^{23}$	$(-\frac{219}{2441}, \frac{897}{2441}, -\frac{438}{2441}, \frac{869}{2441}, -\frac{685}{2441}, \frac{678}{2441}, -\frac{657}{2441}, \frac{650}{2441}, \frac{459}{2441})$ $+\frac{120}{2441}\sqrt{259}e^2 \otimes e_7 + \frac{6}{2441}\sqrt{83139}e^4 \otimes e_5$	{1234, 12358, 34789, 3579}
941:45	$0, 0, 0, 0, 0, \frac{1}{107}\sqrt{4510}e^{12}, \frac{3}{107}\sqrt{330}e^{13}, \frac{6}{107}\sqrt{165}e^{14},$ $\frac{1}{107}\sqrt{4510}e^{16} + \frac{6}{107}\sqrt{165}e^{23}$	$(\frac{13}{107}, -\frac{1}{107}, \frac{26}{107}, -\frac{42}{107}, \frac{12}{107}, \frac{12}{107}, \frac{39}{107}, -\frac{29}{107}, \frac{25}{107})$ $+\frac{5}{107}\sqrt{418}e^3 \otimes e_8$	{1256789, 126789, 1578, 178, 24589, 2489, 4568, 468}
941:46	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{26078}e^{12}, \frac{2}{571}\sqrt{60554}e^{13}, \frac{4}{571}\sqrt{14586}e^{24},$ $\frac{2}{571}\sqrt{6630}e^{16} + \frac{2}{571}\sqrt{22763}e^{23}$	$(-\frac{45}{571}, \frac{38}{571}, -\frac{90}{571}, \frac{307}{571}, \frac{81}{571}, -\frac{7}{571}, -\frac{135}{571}, \frac{345}{571}, -\frac{52}{571})$ $+\frac{14}{571}\sqrt{2210}e^4 \otimes e_7$	{1234569, 123469, 13458, 1348, 235789, 23789, 3567, 367}
941:46	$0, 0, 0, 0, 0, \frac{20}{417}\sqrt{31}e^{12}, \frac{20}{417}\sqrt{31}e^{13}, \frac{140}{417}e^{24},$ $\frac{140}{417}e^{16} + \frac{20}{417}\sqrt{151}e^{23}$	$(\frac{22}{417}, \frac{31}{139}, \frac{44}{417}, -\frac{107}{417}, -\frac{52}{139}, \frac{115}{417}, \frac{22}{139}, -\frac{14}{417}, \frac{137}{417})$ $+\frac{20}{417}\sqrt{191}e^2 \otimes e_4 + \frac{20}{417}\sqrt{191}e^3 \otimes e_5$	{123, 13469, 2367, 3479}
941:46	$0, 0, 0, 0, 0, \frac{4}{3601}\sqrt{20710}e^{12}, \frac{8}{3601}\sqrt{38695}e^{13}, \frac{8}{3601}\sqrt{14170}e^{24},$ $\frac{2}{3601}\sqrt{317735}e^{16} + \frac{8}{3601}\sqrt{31610}e^{23}$	$(-\frac{86}{3601}, \frac{64}{277}, -\frac{172}{3601}, -\frac{101}{3601}, -\frac{1262}{3601}, \frac{746}{3601}, -\frac{258}{3601}, \frac{731}{3601}, \frac{660}{3601})$ $+\frac{2}{3601}\sqrt{859465}e^3 \otimes e_5 + \frac{2}{3601}\sqrt{931405}e^2 \otimes e_7$	{14578, 157, 2459, 2589}
941:46	$0, 0, 0, 0, 0, \frac{3}{379}\sqrt{1133}e^{12}, \frac{6}{379}\sqrt{638}e^{13}, \frac{3}{379}\sqrt{2409}e^{24},$ $\frac{132}{379}e^{16} + \frac{3}{379}\sqrt{2387}e^{23}$	$(\frac{16}{379}, -\frac{13}{379}, \frac{32}{379}, -\frac{70}{379}, \frac{147}{379}, \frac{3}{379}, \frac{48}{379}, -\frac{83}{379}, \frac{19}{379})$ $+\frac{12}{379}\sqrt{319}e^1 \otimes e_8 + \frac{3}{379}\sqrt{2365}e^5 \otimes e_7$	{123459, 1356, 236789, 3478}
941:46	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{546}e^{12}, \frac{6}{155}\sqrt{69}e^{13}, \frac{3}{155}\sqrt{258}e^{24},$ $\frac{6}{155}\sqrt{42}e^{16} + \frac{9}{155}\sqrt{70}e^{23}$	$(-\frac{21}{310}, \frac{57}{155}, -\frac{21}{155}, -\frac{51}{155}, \frac{153}{310}, \frac{3}{10}, -\frac{63}{310}, \frac{6}{155}, \frac{36}{155})$ $+\frac{3}{155}\sqrt{1434}e^5 \otimes e_7 + \frac{6}{155}\sqrt{471}e^2 \otimes e_4$	{1235, 134569, 2367, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:46	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{915}e^{12}, \frac{4}{293}\sqrt{1281}e^{13}, \frac{6}{293}\sqrt{2318}e^{24},$ $\frac{6}{293}\sqrt{366}e^{16} + \frac{2}{293}\sqrt{5307}e^{23}$	$(\frac{27}{293}, -\frac{12}{293}, \frac{54}{293}, -\frac{61}{293}, 1, \frac{15}{293}, \frac{81}{293}, -\frac{73}{293}, \frac{42}{293})$ $+ \frac{24}{293}\sqrt{305}e^5 \otimes e_8$	{124567, 12678, 14789, 1579, 245, 28, 4689, 569}
941:46	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{8018}e^{12}, \frac{1}{239}\sqrt{8018}e^{13}, \frac{1}{239}\sqrt{29962}e^{24},$ $\frac{1}{239}\sqrt{29962}e^{16} + \frac{3}{239}\sqrt{2110}e^{23}$	$(\frac{7}{239}, -\frac{57}{239}, \frac{14}{239}, \frac{168}{239}, \frac{40}{239}, -\frac{50}{239}, \frac{21}{239}, \frac{111}{239}, -\frac{43}{239})$ $+ \frac{1}{239}\sqrt{83978}e^4 \otimes e_9$	{1234567, 123467, 13579, 1379, 234, 2345, 3569, 369}
941:46	$0, 0, 0, 0, 0, \frac{4}{3241}\sqrt{1671}e^{12}, \frac{2}{3241}\sqrt{167657}e^{13}, \frac{2}{3241}\sqrt{491831}e^{24},$ $\frac{2}{3241}\sqrt{169885}e^{16} + \frac{4}{3241}\sqrt{80765}e^{23}$	$(-\frac{263}{3241}, \frac{325}{3241}, -\frac{526}{3241}, \frac{913}{3241}, \frac{355}{3241}, \frac{62}{3241}, -\frac{789}{3241}, \frac{1238}{3241}, -\frac{201}{3241})$ $+ \frac{2}{3241}\sqrt{802637}e^4 \otimes e_9 + \frac{34}{3241}\sqrt{2785}e^2 \otimes e_7$	{145678, 14678, 25689, 2689}
941:46	$0, 0, 0, 0, 0, \frac{8}{589}\sqrt{546}e^{12}, \frac{72}{589}\sqrt{14}e^{13}, \frac{8}{589}\sqrt{1113}e^{24},$ $\frac{8}{589}\sqrt{917}e^{16} + \frac{8}{589}\sqrt{742}e^{23}$	$(\frac{78}{589}, -\frac{59}{589}, \frac{156}{589}, -\frac{87}{589}, -\frac{68}{589}, \frac{1}{31}, \frac{234}{589}, -\frac{146}{589}, \frac{97}{589})$ $+ \frac{112}{589}\sqrt{5}e^3 \otimes e_5 + \frac{8}{589}\sqrt{2639}e^1 \otimes e_8$	{12349, 136, 236789, 3478}
941:46	$0, 0, 0, 0, 0, \frac{10}{1837}\sqrt{786}e^{12}, \frac{10}{1837}\sqrt{1290}e^{13}, \frac{15}{1837}\sqrt{514}e^{24},$ $\frac{15}{1837}\sqrt{178}e^{16} + \frac{60}{1837}\sqrt{2}e^{23}$	$(\frac{38}{1837}, -\frac{188}{1837}, \frac{76}{1837}, \frac{189}{1837}, \frac{107}{1837}, -\frac{150}{1837}, \frac{114}{1837}, \frac{1}{1837}, -\frac{112}{1837})$ $+ \frac{5}{1837}\sqrt{5118}e^4 \otimes e_7 + \frac{5}{1837}\sqrt{5262}e^3 \otimes e_8$	{1256789, 126789, 4568, 468}
941:46	$0, 0, 0, 0, 0, \frac{20}{3741}\sqrt{3841}e^{12}, \frac{20}{3741}\sqrt{7130}e^{13}, \frac{10}{3741}\sqrt{4278}e^{24},$ $\frac{10}{3741}\sqrt{2530}e^{16} + \frac{10}{3741}\sqrt{14099}e^{23}$	$(-\frac{55}{1247}, -\frac{32}{1247}, -\frac{110}{1247}, \frac{655}{1247}, \frac{1709}{3741}, -\frac{3}{43}, \frac{165}{1247}, \frac{13}{87}, -\frac{142}{1247})$ $+ \frac{20}{3741}\sqrt{8119}e^5 \otimes e_8 + \frac{40}{3741}\sqrt{2921}e^4 \otimes e_7$	{1234569, 1348, 23789, 3567}
941:46	$0, 0, 0, 0, 0, \frac{1}{1609}\sqrt{110622}e^{12}, \frac{2}{1609}\sqrt{38127}e^{13}, \frac{6}{1609}\sqrt{5191}e^{24},$ $\frac{24}{1609}\sqrt{179}e^{16} + \frac{2}{1609}\sqrt{23807}e^{23}$	$(\frac{1}{1609}, \frac{182}{1609}, \frac{2}{1609}, -\frac{360}{1609}, \frac{162}{1609}, \frac{183}{1609}, \frac{3}{1609}, -\frac{178}{1609}, \frac{184}{1609})$ $+ \frac{2}{1609}\sqrt{77149}e^1 \otimes e_8 + \frac{1609}{1609}\sqrt{23270}e^2 \otimes e_7$	{123459, 12349, 34578, 3478}
941:46	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{28}\sqrt{70}e^{13}, \frac{1}{56}\sqrt{518}e^{24},$ $\frac{1}{28}\sqrt{14}e^{16} + \frac{5}{56}\sqrt{14}e^{23}$	$(\frac{5}{56}, -\frac{1}{4}, \frac{5}{28}, \frac{5}{28}, \frac{5}{56}, -\frac{9}{56}, \frac{15}{56}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{658}e^4 \otimes e_9 + \frac{1}{56}\sqrt{770}e^3 \otimes e_8$	{123456, 12346, 1359, 139, 23457, 2347, 35679, 3679}
941:46	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{28}\sqrt{70}e^{13}, \frac{1}{56}\sqrt{518}e^{24},$ $\frac{1}{28}\sqrt{14}e^{16} + \frac{5}{56}\sqrt{14}e^{23}$	$(\frac{5}{56}, -\frac{1}{4}, \frac{5}{28}, \frac{5}{28}, \frac{5}{56}, -\frac{9}{56}, \frac{15}{56}, -\frac{1}{14}, -\frac{1}{14})$ $- \frac{1}{56}\sqrt{658}e^4 \otimes e_9 + \frac{1}{56}\sqrt{770}e^3 \otimes e_8$	{123456, 12346, 1359, 139, 23457, 2347, 35679, 3679}
941:46	$0, 0, 0, 0, 0, \frac{6}{3233}\sqrt{546}e^{12}, \frac{2}{3233}\sqrt{45786}e^{13}, \frac{12}{3233}\sqrt{1482}e^{24},$ $\frac{6}{3233}\sqrt{2522}e^{16} + \frac{2}{3233}\sqrt{38883}e^{23}$	$(\frac{41}{3233}, -\frac{238}{3233}, \frac{82}{3233}, \frac{201}{3233}, \frac{259}{3233}, -\frac{197}{3233}, \frac{123}{3233}, -\frac{37}{3233}, -\frac{156}{3233})$ $+ \frac{208}{3233}\sqrt{6}e^1 \otimes e_8 + \frac{2}{3233}\sqrt{51090}e^4 \otimes e_7$	{123459, 12349, 2356789, 236789}
941:46	$0, 0, 0, 0, 0, \frac{1}{255}\sqrt{1610}e^{12}, \frac{1}{255}\sqrt{13570}e^{13}, \frac{4}{255}\sqrt{1265}e^{24},$ $\frac{2}{51}\sqrt{23}e^{16} + \frac{2}{255}\sqrt{115}e^{23}$	$(-\frac{1}{17}, \frac{3}{17}, -\frac{2}{17}, \frac{14}{51}, -\frac{14}{51}, \frac{2}{17}, -\frac{3}{17}, \frac{23}{51}, \frac{1}{17})$ $+ \frac{1}{255}\sqrt{22310}e^2 \otimes e_5 + \frac{1}{255}\sqrt{30130}e^4 \otimes e_7$	{123469, 13458, 23789, 3567}
941:46	$0, 0, 0, 0, 0, \frac{5}{299}\sqrt{285}e^{12}, \frac{10}{299}\sqrt{114}e^{13}, \frac{5}{299}\sqrt{429}e^{24},$ $\frac{10}{299}\sqrt{93}e^{16} + \frac{5}{299}\sqrt{399}e^{23}$	$(\frac{10}{299}, \frac{5}{299}, \frac{20}{299}, -\frac{70}{299}, \frac{105}{299}, \frac{15}{299}, \frac{30}{299}, -\frac{5}{23}, \frac{25}{299})$ $+ \frac{10}{299}\sqrt{249}e^1 \otimes e_8 + \frac{10}{299}\sqrt{42}e^2 \otimes e_4 + \frac{5}{299}\sqrt{453}e^5 \otimes e_7$	{236789, 3478}
941:46	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{30}e^{12}, \frac{6}{161}\sqrt{165}e^{13}, \frac{18}{161}\sqrt{13}e^{24},$ $\frac{6}{161}\sqrt{69}e^{16} + \frac{6}{161}\sqrt{111}e^{23}$	$(-\frac{1}{161}, \frac{4}{161}, -\frac{2}{161}, \frac{51}{161}, -\frac{55}{161}, \frac{3}{161}, -\frac{3}{161}, \frac{55}{161}, \frac{2}{161})$ $+ \frac{6}{161}\sqrt{213}e^1 \otimes e_5 + \frac{6}{161}\sqrt{222}e^4 \otimes e_7$	{12349, 13468, 2356789, 357}
941:46	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{3}e^{12}, \frac{6}{95}\sqrt{3}e^{13}, \frac{3}{95}\sqrt{15}e^{24},$ $\frac{3}{95}e^{16} + \frac{3}{95}\sqrt{177}e^{23}$	$(\frac{3}{95}, \frac{3}{95}, \frac{6}{95}, -\frac{24}{95}, \frac{36}{95}, \frac{6}{95}, \frac{9}{95}, -\frac{21}{95}, \frac{9}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_9 + \frac{3}{95}\sqrt{183}e^3 \otimes e_8 + \frac{9}{95}\sqrt{19}e^2 \otimes e_4$	{12789, 145678, 2689, 458}
941:46	$0, 0, 0, 0, 0, \frac{3}{95}\sqrt{3}e^{12}, \frac{6}{95}\sqrt{3}e^{13}, \frac{3}{95}\sqrt{15}e^{24},$ $\frac{3}{95}e^{16} + \frac{3}{95}\sqrt{177}e^{23}$	$(\frac{3}{95}, \frac{3}{95}, \frac{6}{95}, -\frac{24}{95}, \frac{36}{95}, \frac{6}{95}, \frac{9}{95}, -\frac{21}{95}, \frac{9}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_9 - \frac{3}{95}\sqrt{183}e^3 \otimes e_8 + \frac{9}{95}\sqrt{19}e^2 \otimes e_4$	{12789, 145678, 2689, 458}
941:46	$0, 0, 0, 0, 0, \frac{2}{1195}\sqrt{6942}e^{12}, \frac{2}{1195}\sqrt{63813}e^{13}, \frac{12}{1195}\sqrt{2759}e^{24},$ $\frac{18}{1195}\sqrt{178}e^{16} + \frac{2}{1195}\sqrt{14151}e^{23}$	$(-\frac{81}{1195}, \frac{291}{1195}, -\frac{162}{1195}, \frac{211}{1195}, -\frac{323}{1195}, \frac{42}{239}, -\frac{243}{1195}, \frac{502}{1195}, \frac{129}{1195})$ $+ \frac{12}{1195}\sqrt{4539}e^2 \otimes e_7 + \frac{6}{1195}\sqrt{13439}e^4 \otimes e_5$	{1234, 12358, 34789, 3579}
941:46	$0, 0, 0, 0, 0, \frac{6}{1391}\sqrt{6289}e^{12}, \frac{4}{1391}\sqrt{6951}e^{13}, \frac{2}{1391}\sqrt{70503}e^{24},$ $\frac{1}{1391}\sqrt{224418}e^{16} + \frac{1}{1391}\sqrt{151598}e^{23}$	$(\frac{1}{13}, \frac{49}{1391}, \frac{2}{13}, -\frac{21}{107}, -\frac{282}{1391}, \frac{12}{107}, \frac{3}{13}, -\frac{224}{1391}, \frac{263}{1391})$ $+ \frac{1}{1391}\sqrt{287970}e^2 \otimes e_5 + \frac{1}{1391}\sqrt{531586}e^1 \otimes e_8$	{12349, 1356, 236789, 34578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:46	$0, 0, 0, 0, 0, \frac{1}{1123} \sqrt{448890}e^{12}, \frac{6}{1123} \sqrt{24171}e^{13}, \frac{2}{1123} \sqrt{3453}e^{24},$ $\frac{1}{1123} \sqrt{453494}e^{16} + \frac{1}{1123} \sqrt{877062}e^{23}$	$(\frac{182}{1123}, -\frac{12}{1123}, \frac{364}{1123}, \frac{174}{1123}, -\frac{787}{1123}, \frac{170}{1123}, \frac{546}{1123}, \frac{162}{1123}, \frac{352}{1123})$ $+ \frac{1}{1123} \sqrt{2198410}e^3 \otimes e_5$	{12456789, 125679, 1457, 1578, 24589, 259, 456, 568}
941:46	$0, 0, 0, 0, 0, \frac{13}{1361} \sqrt{229}e^{12}, \frac{26}{1361} \sqrt{118}e^{13}, \frac{377}{1361} e^{24},$ $\frac{26}{1361} \sqrt{190}e^{16} + \frac{13}{1361} \sqrt{435}e^{23}$	$(\frac{52}{1361}, -\frac{195}{1361}, \frac{104}{1361}, \frac{78}{1361}, \frac{325}{1361}, -\frac{143}{1361}, \frac{156}{1361}, -\frac{117}{1361}, -\frac{91}{1361})$ $+ \frac{117}{1361} \sqrt{5}e^5 \otimes e_7 + \frac{26}{1361} \sqrt{330}e^1 \otimes e_8 + \frac{52}{1361} \sqrt{47}e^4 \otimes e_9$	{236789, 3478}
941:46	$0, 0, 0, 0, 0, \frac{6}{1123} \sqrt{24171}e^{12}, \frac{1}{1123} \sqrt{448890}e^{13}, \frac{1}{1123} \sqrt{453494}e^{24},$ $\frac{2}{1123} \sqrt{3453}e^{16} + \frac{1}{1123} \sqrt{877062}e^{23}$	$(-\frac{9}{1123}, \frac{561}{1123}, -\frac{18}{1123}, \frac{590}{1123}, \frac{168}{1123}, \frac{552}{1123}, -\frac{27}{1123}, -\frac{29}{1123}, \frac{543}{1123})$ $+ \frac{1}{1123} \sqrt{2198410}e^2 \otimes e_4$	{12357, 1237, 1345679, 134679, 2356, 236, 3459, 349}
941:46	$0, 0, 0, 0, 0, \frac{3}{626} \sqrt{9658}e^{12}, \frac{1}{626} \sqrt{38193}e^{13}, \frac{1}{313} \sqrt{8341}e^{24},$ $\frac{1}{313} \sqrt{1317}e^{16} + \frac{4}{313} \sqrt{1317}e^{23}$	$(\frac{9}{626}, \frac{309}{1252}, \frac{9}{313}, -\frac{569}{1252}, \frac{309}{626}, \frac{327}{1252}, \frac{27}{626}, -\frac{65}{313}, \frac{345}{1252})$ $+ \frac{1}{626} \sqrt{278326}e^2 \otimes e_4 + \frac{3}{626} \sqrt{23267}e^5 \otimes e_8$	{1289, 1468, 26789, 478}
941:46	$0, 0, 0, 0, 0, \frac{2}{1195} \sqrt{6942}e^{12}, \frac{2}{1195} \sqrt{63813}e^{13}, \frac{12}{1195} \sqrt{2759}e^{24},$ $\frac{18}{1195} \sqrt{178}e^{16} + \frac{2}{1195} \sqrt{14151}e^{23}$	$(-\frac{81}{1195}, \frac{291}{1195}, -\frac{162}{1195}, -\frac{242}{1195}, \frac{583}{1195}, \frac{42}{1195}, -\frac{243}{1195}, \frac{49}{1195}, \frac{129}{1195})$ $+ \frac{12}{1195} \sqrt{4539}e^2 \otimes e_7 + \frac{6}{1195} \sqrt{13439}e^5 \otimes e_8$	{12345, 1238, 34789, 3579}
941:46	$0, 0, 0, 0, 0, \frac{4}{1523} \sqrt{7070}e^{12}, \frac{2}{1523} \sqrt{71205}e^{13}, \frac{3}{1523} \sqrt{47470}e^{24},$ $\frac{4}{1523} \sqrt{10605}e^{16} + \frac{2}{1523} \sqrt{92415}e^{23}$	$(\frac{142}{1523}, \frac{58}{1523}, \frac{284}{1523}, \frac{279}{1523}, -\frac{447}{1523}, \frac{200}{1523}, \frac{426}{1523}, \frac{221}{1523}, \frac{342}{1523})$ $+ \frac{1}{1523} \sqrt{596910}e^2 \otimes e_5 + \frac{3}{1523} \sqrt{198970}e^3 \otimes e_8$	{126789, 14578, 289, 4568}
941:46	$0, 0, 0, 0, 0, \frac{3}{1807} \sqrt{14338}e^{12}, \frac{201}{1807} \sqrt{6}e^{13}, \frac{3}{1807} \sqrt{58290}e^{24},$ $\frac{3}{1807} \sqrt{37654}e^{16} + \frac{3}{1807} \sqrt{52930}e^{23}$	$(-\frac{7}{1807}, \frac{1}{139}, -\frac{14}{1807}, \frac{602}{1807}, -\frac{590}{1807}, \frac{6}{1807}, -\frac{21}{1807}, \frac{615}{1807}, -\frac{1}{1807})$ $+ \frac{3}{1807} \sqrt{114838}e^4 \otimes e_9 + \frac{6}{1807} \sqrt{25795}e^2 \otimes e_5$	{1289, 14568, 26789, 4578}
941:46	$0, 0, 0, 0, 0, \frac{1}{25} \sqrt{42}e^{12}, \frac{2}{25} \sqrt{13}e^{13}, \frac{2}{25} \sqrt{14}e^{24},$ $\frac{2}{25} e^{16} + \frac{4}{25} \sqrt{2}e^{23}$	$(\frac{1}{25}, -\frac{4}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, \frac{3}{25}, -\frac{2}{25}, -\frac{2}{25})$ $+ \frac{1}{25} \sqrt{42}e^5 \otimes e_7 + \frac{1}{25} \sqrt{58}e^4 \otimes e_9 + \frac{1}{25} \sqrt{86}e^3 \otimes e_8$	{126789, 1478, 2589, 4568}
941:46	$0, 0, 0, 0, 0, \frac{1}{25} \sqrt{42}e^{12}, \frac{2}{25} \sqrt{13}e^{13}, \frac{2}{25} \sqrt{14}e^{24},$ $\frac{2}{25} e^{16} + \frac{4}{25} \sqrt{2}e^{23}$	$(\frac{1}{25}, -\frac{4}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, \frac{3}{25}, -\frac{2}{25}, -\frac{2}{25})$ $+ \frac{1}{25} \sqrt{42}e^5 \otimes e_7 - \frac{1}{25} \sqrt{58}e^4 \otimes e_9 + \frac{1}{25} \sqrt{86}e^3 \otimes e_8$	{126789, 1478, 2589, 4568}
941:46	$0, 0, 0, 0, 0, \frac{9}{1273} \sqrt{3178}e^{12}, \frac{36}{1273} \sqrt{203}e^{13}, \frac{9}{1273} \sqrt{3262}e^{24},$ $\frac{9}{1273} \sqrt{42}e^{16} + \frac{36}{1273} \sqrt{301}e^{23}$	$(\frac{120}{1273}, -\frac{222}{1273}, \frac{240}{1273}, -\frac{105}{1273}, \frac{585}{1273}, -\frac{102}{1273}, \frac{360}{1273}, -\frac{327}{1273}, \frac{18}{1273})$ $+ \frac{36}{1273} \sqrt{602}e^3 \otimes e_8 + \frac{9}{1273} \sqrt{6398}e^5 \otimes e_9$	{123456, 139, 23457, 3679}
941:46	$0, 0, 0, 0, 0, \frac{4}{149} \sqrt{767}e^{12}, \frac{6}{149} \sqrt{177}e^{13}, \frac{2}{149} \sqrt{177}e^{24},$ $\frac{2}{149} \sqrt{3127}e^{16} + \frac{6}{149} \sqrt{2183}e^{23}$	$(\frac{17}{149}, \frac{6}{149}, \frac{34}{149}, \frac{21}{149}, -\frac{101}{149}, \frac{23}{149}, \frac{51}{149}, \frac{27}{149}, \frac{40}{149})$ $+ \frac{10}{149} \sqrt{295}e^1 \otimes e_5$	{12349, 12389, 13468, 136, 2345679, 2356789, 34578, 357}
941:46	$0, 0, 0, 0, 0, \frac{6}{2987} \sqrt{36354}e^{12}, \frac{2}{2987} \sqrt{645906}e^{13}, \frac{6}{2987} \sqrt{41666}e^{24},$ $\frac{4}{2987} \sqrt{50547}e^{16} + \frac{6}{2987} \sqrt{8798}e^{23}$	$(\frac{4}{2987}, -\frac{17}{2987}, \frac{8}{2987}, \frac{1008}{2987}, -\frac{988}{2987}, -\frac{13}{2987}, \frac{12}{2987}, \frac{991}{2987}, -\frac{9}{2987})$ $+ \frac{2}{2987} \sqrt{758454}e^4 \otimes e_7 + \frac{4}{2987} \sqrt{152637}e^3 \otimes e_5$	{1256789, 157, 2459, 4568}
941:46	$0, 0, 0, 0, 0, \frac{20}{3821} \sqrt{989}e^{12}, \frac{2}{3821} \sqrt{294765}e^{13}, \frac{4}{3821} \sqrt{62565}e^{24},$ $\frac{6}{3821} \sqrt{14835}e^{16} + \frac{2}{3821} \sqrt{169635}e^{23}$	$(\frac{7}{3821}, \frac{451}{3821}, \frac{14}{3821}, -\frac{867}{3821}, \frac{297}{3821}, \frac{458}{3821}, \frac{21}{3821}, -\frac{416}{3821}, \frac{465}{3821})$ $+ \frac{2}{3821} \sqrt{403555}e^3 \otimes e_8 + \frac{6}{3821} \sqrt{39345}e^2 \otimes e_7$	{14578, 1478, 2589, 289}
941:46	$0, 0, 0, 0, 0, \frac{1}{1147} \sqrt{541994}e^{12}, \frac{1}{1147} \sqrt{780270}e^{13}, \frac{2}{1147} \sqrt{168639}e^{24},$ $\frac{3}{1147} \sqrt{35238}e^{16} + \frac{4}{1147} \sqrt{27687}e^{23}$	$(\frac{209}{1147}, -\frac{181}{1147}, \frac{418}{1147}, -\frac{240}{1147}, \frac{162}{1147}, \frac{28}{1147}, \frac{627}{1147}, -\frac{421}{1147}, \frac{237}{1147})$ $+ \frac{1}{1147} \sqrt{1652830}e^3 \otimes e_8$	{1256789, 126789, 14578, 1478, 2589, 289, 4568, 468}
941:46	$0, 0, 0, 0, 0, \frac{435}{3239} \sqrt{6}e^{12}, \frac{116}{3239} \sqrt{6}e^{13}, \frac{87}{3239} \sqrt{70}e^{24},$ $\frac{87}{3239} \sqrt{178}e^{16} + \frac{58}{3239} \sqrt{10}e^{23}$	$(\frac{116}{3239}, \frac{58}{3239}, \frac{232}{3239}, -\frac{783}{3239}, \frac{1131}{3239}, \frac{174}{3239}, \frac{348}{3239}, -\frac{725}{3239}, \frac{290}{3239})$ $+ \frac{29}{3239} \sqrt{1662}e^5 \otimes e_9 + \frac{464}{3239} \sqrt{6}e^2 \otimes e_4 + \frac{58}{3239} \sqrt{670}e^1 \otimes e_8$	{2689, 458}
941:46	$0, 0, 0, 0, 0, \frac{2}{1193} \sqrt{167118}e^{12}, \frac{2}{1193} \sqrt{71449}e^{13}, \frac{7}{1193} \sqrt{10726}e^{24},$ $\frac{2}{1193} \sqrt{12110}e^{16} + \frac{14}{1193} \sqrt{3287}e^{23}$	$(\frac{30}{1193}, \frac{434}{1193}, \frac{60}{1193}, -\frac{9}{1193}, -\frac{777}{1193}, \frac{464}{1193}, \frac{90}{1193}, \frac{425}{1193}, \frac{494}{1193})$ $+ \frac{1}{1193} \sqrt{2385670}e^2 \otimes e_5$	{1249, 1289, 14568, 156, 24679, 26789, 4578, 57}
941:46	$0, 0, 0, 0, 0, \frac{2}{457} \sqrt{4301}e^{12}, \frac{1}{914} \sqrt{13685}e^{13}, \frac{1}{457} \sqrt{61387}e^{24},$ $\frac{1}{914} \sqrt{135286}e^{16} + \frac{1}{457} \sqrt{11730}e^{23}$	$(\frac{25}{914}, -\frac{387}{1828}, \frac{25}{457}, \frac{495}{1828}, \frac{445}{914}, -\frac{337}{1828}, \frac{75}{914}, \frac{27}{457}, -\frac{287}{1828})$ $+ \frac{1}{914} \sqrt{275655}e^5 \otimes e_8 + \frac{1}{914} \sqrt{366758}e^4 \otimes e_9$	{1234567, 13579, 2345, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:46	$0, 0, 0, 0, 0, \frac{39}{8005}\sqrt{462e^{12}}, \frac{156}{8005}\sqrt{87e^{13}}, \frac{39}{8005}\sqrt{4946e^{24}},$ $\frac{39}{8005}\sqrt{1238e^{16}} + \frac{39}{8005}\sqrt{1634e^{23}}$	$(-\frac{429}{8005}, \frac{234}{8005}, -\frac{858}{8005}, \frac{897}{8005}, \frac{2652}{8005}, -\frac{39}{1601}, -\frac{1287}{8005}, \frac{1131}{8005}, -\frac{624}{8005})$ $+ \frac{39}{8005}\sqrt{3994e^5} \otimes e_8 + \frac{39}{8005}\sqrt{5430e^4} \otimes e_9 + \frac{78}{8005}\sqrt{1319e^2} \otimes e_7$	{123456, 35679}
941:46	$0, 0, 0, 0, 0, \frac{24}{2975}\sqrt{322e^{12}}, \frac{192}{2975}\sqrt{14e^{13}}, \frac{24}{2975}\sqrt{781e^{24}},$ $\frac{24}{2975}\sqrt{345e^{16}} + \frac{24}{2975}\sqrt{655e^{23}}$	$(-\frac{12}{2975}, \frac{36}{425}, -\frac{24}{2975}, -\frac{564}{2975}, \frac{516}{2975}, \frac{48}{595}, -\frac{36}{2975}, -\frac{312}{2975}, \frac{228}{2975})$ $+ \frac{24}{2975}\sqrt{1149e^2} \otimes e_7 + \frac{24}{2975}\sqrt{1310e^3} \otimes e_8 + \frac{24}{2975}\sqrt{299e^5} \otimes e_9$	{14578, 289}
941:46	$0, 0, 0, 0, 0, \frac{7}{3487}\sqrt{262e^{12}}, \frac{56}{3487}\sqrt{46e^{13}}, \frac{7}{3487}\sqrt{3326e^{24}},$ $\frac{7}{3487}\sqrt{1146e^{16}} + \frac{252}{3487}\sqrt{2e^{23}}$	$(\frac{56}{3487}, -\frac{210}{3487}, \frac{112}{3487}, \frac{217}{3487}, -\frac{49}{3487}, -\frac{14}{317}, \frac{168}{3487}, \frac{7}{3487}, -\frac{98}{3487})$ $+ \frac{252}{3487}\sqrt{3e^1} \otimes e_8 + \frac{28}{3487}\sqrt{199e^4} \otimes e_7 + \frac{7}{3487}\sqrt{674e^5} \otimes e_9$	{123459, 2356789}
941:46	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{21e^{12}}, \frac{3}{95}\sqrt{186e^{13}}, \frac{3}{95}\sqrt{102e^{24}},$ $\frac{3}{95}\sqrt{78e^{16}} + \frac{9}{95}\sqrt{10e^{23}}$	$(\frac{3}{95}, \frac{3}{95}, \frac{6}{95}, -\frac{24}{95}, \frac{36}{95}, \frac{6}{95}, \frac{9}{95}, -\frac{21}{95}, \frac{9}{95})$ $+ \frac{3}{95}\sqrt{174e^5} \otimes e_7 + \frac{6}{95}\sqrt{21e^2} \otimes e_4 - \frac{9}{95}\sqrt{30e^3} \otimes e_8$	{126789, 1478, 2589, 4568}
941:46	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{21e^{12}}, \frac{3}{95}\sqrt{186e^{13}}, \frac{3}{95}\sqrt{102e^{24}},$ $\frac{3}{95}\sqrt{78e^{16}} + \frac{9}{95}\sqrt{10e^{23}}$	$(\frac{3}{95}, \frac{3}{95}, \frac{6}{95}, -\frac{24}{95}, \frac{36}{95}, \frac{6}{95}, \frac{9}{95}, -\frac{21}{95}, \frac{9}{95})$ $+ \frac{3}{95}\sqrt{174e^5} \otimes e_7 + \frac{6}{95}\sqrt{21e^2} \otimes e_4 + \frac{9}{95}\sqrt{30e^3} \otimes e_8$	{126789, 1478, 2589, 4568}
941:46	$0, 0, 0, 0, 0, \frac{1}{327}\sqrt{12502e^{12}}, \frac{1}{327}\sqrt{4389e^{13}}, \frac{19}{327}\sqrt{35e^{24}},$ $\frac{1}{327}\sqrt{589e^{16}} + \frac{1}{327}\sqrt{3990e^{23}}$	$(\frac{6}{109}, -\frac{14}{109}, \frac{12}{109}, \frac{127}{327}, -\frac{115}{327}, -\frac{8}{109}, \frac{18}{109}, \frac{85}{327}, -\frac{2}{109})$ $+ \frac{1}{327}\sqrt{36442e^4} \otimes e_9 + \frac{1}{327}\sqrt{40565e^1} \otimes e_5$	{12389, 13468, 2356789, 34578}
941:46	$0, 0, 0, 0, 0, \frac{2}{3457}\sqrt{463726e^{12}}, \frac{6}{3457}\sqrt{65823e^{13}}, \frac{72}{3457}\sqrt{593e^{24}},$ $\frac{10}{3457}\sqrt{8302e^{16}} + \frac{6}{3457}\sqrt{23127e^{23}}$	$(\frac{433}{3457}, -\frac{565}{3457}, \frac{866}{3457}, \frac{245}{3457}, -\frac{941}{3457}, -\frac{132}{3457}, \frac{1299}{3457}, -\frac{320}{3457}, \frac{301}{3457})$ $+ \frac{2}{3457}\sqrt{735913e^4} \otimes e_5 + \frac{4}{3457}\sqrt{284047e^3} \otimes e_8$	{1256789, 1478, 2589, 468}
941:46	$0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358e^{12}}, \frac{12}{1109}\sqrt{758e^{13}}, \frac{1}{1109}\sqrt{206934e^{24}},$ $\frac{3}{1109}\sqrt{32594e^{16}} + \frac{14}{1109}\sqrt{758e^{23}}$	$(\frac{92}{1109}, -\frac{146}{1109}, \frac{184}{1109}, -\frac{141}{1109}, \frac{417}{1109}, -\frac{54}{1109}, \frac{276}{1109}, -\frac{287}{1109}, \frac{38}{1109})$ $+ \frac{1}{1109}\sqrt{216030e^5} \otimes e_9 + \frac{2}{1109}\sqrt{131134e^1} \otimes e_8$	{12349, 1356, 236789, 34578}
941:46	$0, 0, 0, 0, 0, \frac{8}{311}\sqrt{201e^{12}}, \frac{4}{311}\sqrt{618e^{13}}, \frac{4}{311}\sqrt{834e^{24}},$ $\frac{24}{311}\sqrt{10e^{16}} + \frac{12}{311}\sqrt{170e^{23}}$	$(\frac{22}{311}, -\frac{55}{311}, \frac{44}{311}, \frac{133}{311}, -\frac{100}{311}, \frac{33}{311}, \frac{66}{311}, \frac{78}{311}, -\frac{11}{311})$ $+ \frac{4}{311}\sqrt{2370e^3} \otimes e_5 + \frac{4}{311}\sqrt{2658e^4} \otimes e_9$	{12346, 139, 2347, 3679}
941:46	$0, 0, 0, 0, 0, \frac{8}{193}\sqrt{22e^{12}}, \frac{8}{193}\sqrt{22e^{13}}, \frac{8}{193}\sqrt{67e^{24}},$ $\frac{8}{193}\sqrt{67e^{16}} + \frac{8}{193}\sqrt{30e^{23}}$	$(\frac{14}{193}, -\frac{39}{193}, \frac{28}{193}, \frac{21}{193}, \frac{20}{193}, -\frac{25}{193}, \frac{42}{193}, -\frac{18}{193}, -\frac{11}{193})$ $+ \frac{16}{193}\sqrt{17e^4} \otimes e_9 + \frac{8}{193}\sqrt{105e^1} \otimes e_8$	{2356789, 236789, 34578, 3478}
941:46	$0, 0, 0, 0, 0, \frac{5}{1157}\sqrt{2518e^{12}}, \frac{4}{1157}\sqrt{26439e^{13}}, \frac{1}{1157}\sqrt{148562e^{24}},$ $\frac{1}{1157}\sqrt{823386e^{16}} + \frac{4}{1157}\sqrt{54137e^{23}}$	$(\frac{8}{1157}, -\frac{118}{1157}, \frac{16}{1157}, \frac{251}{1157}, 1, -\frac{110}{1157}, \frac{24}{1157}, \frac{133}{1157}, -\frac{102}{1157})$ $+ \frac{1}{1157}\sqrt{2429870e^5} \otimes e_9$	{12489, 129, 1456, 1568, 246789, 2679, 457, 578}
941:46	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{3434e^{12}}, \frac{1}{169}\sqrt{3838e^{13}}, \frac{1}{169}\sqrt{7474e^{24}},$ $\frac{5}{169}\sqrt{202e^{16}} + \frac{1}{169}\sqrt{3030e^{23}}$	$(-\frac{7}{169}, -\frac{15}{169}, -\frac{14}{169}, \frac{72}{169}, \frac{80}{169}, -\frac{22}{169}, \frac{21}{169}, \frac{57}{169}, -\frac{29}{169})$ $+ \frac{1}{169}\sqrt{17978e^4} \otimes e_9 + \frac{2}{169}\sqrt{3030e^5} \otimes e_7$	{123456, 1359, 2347, 3679}
941:46	$0, 0, 0, 0, 0, \frac{3}{1717}\sqrt{50610e^{12}}, \frac{2}{1717}\sqrt{117849e^{13}}, \frac{3}{1717}\sqrt{40970e^{24}},$ $\frac{3}{1717}\sqrt{34222e^{16}} + \frac{2}{1717}\sqrt{213285e^{23}}$	$(-\frac{62}{1717}, \frac{304}{1717}, -\frac{124}{1717}, -\frac{419}{1717}, \frac{903}{1717}, \frac{242}{1717}, -\frac{186}{1717}, -\frac{115}{1717}, \frac{180}{1717})$ $+ \frac{1}{1717}\sqrt{1103298e^5} \otimes e_9 + \frac{2}{1717}\sqrt{294261e^2} \otimes e_4$	{129, 1456, 2679, 457}
941:46	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{19027e^{12}}, \frac{2}{287}\sqrt{20822e^{13}}, \frac{3}{287}\sqrt{2513e^{24}},$ $\frac{4}{287}\sqrt{718e^{16}} + \frac{1}{287}\sqrt{13283e^{23}}$	$(-\frac{24}{287}, \frac{9}{41}, -\frac{48}{287}, \frac{18}{287}, 1, \frac{39}{287}, -\frac{72}{287}, \frac{81}{287}, \frac{15}{287})$ $+ \frac{5}{287}\sqrt{6821e^5} \otimes e_7$	{1234569, 1235689, 13458, 135, 23479, 23789, 34678, 367}
941:46	$0, 0, 0, 0, 0, \frac{4}{121}\sqrt{210e^{12}}, \frac{4}{121}\sqrt{210e^{13}}, \frac{12}{121}\sqrt{35e^{24}},$ $\frac{12}{121}\sqrt{35e^{16}} + \frac{8}{121}\sqrt{77e^{23}}$	$(\frac{16}{121}, -\frac{13}{121}, \frac{32}{121}, -\frac{27}{121}, \frac{18}{121}, \frac{3}{121}, \frac{48}{121}, -\frac{40}{121}, \frac{19}{121})$ $+ \frac{4}{121}\sqrt{721e^1} \otimes e_8$	{123459, 12349, 1356, 136, 2356789, 236789, 34578, 3478}
941:46	$0, 0, 0, 0, 0, \frac{4}{293}\sqrt{915e^{12}}, \frac{4}{293}\sqrt{1281e^{13}}, \frac{6}{293}\sqrt{2318e^{24}},$ $\frac{6}{293}\sqrt{366e^{16}} + \frac{2}{293}\sqrt{5307e^{23}}$	$(\frac{27}{293}, -\frac{12}{293}, \frac{54}{293}, \frac{179}{293}, -\frac{187}{293}, \frac{15}{293}, \frac{81}{293}, \frac{167}{293}, \frac{42}{293})$ $+ \frac{24}{293}\sqrt{305e^4} \otimes e_5$	{12467, 125678, 14789, 1579, 24, 258, 4689, 569}
941:46	$0, 0, 0, 0, 0, \frac{8}{3373}\sqrt{10411e^{12}}, \frac{6}{3373}\sqrt{26566e^{13}}, \frac{2}{3373}\sqrt{467418e^{24}},$ $\frac{2}{3373}\sqrt{322382e^{16}} + \frac{2}{3373}\sqrt{357923e^{23}}$	$(\frac{335}{3373}, -\frac{430}{3373}, \frac{670}{3373}, \frac{47}{3373}, -\frac{671}{3373}, -\frac{95}{3373}, \frac{1005}{3373}, -\frac{383}{3373}, \frac{240}{3373})$ $+ \frac{2}{3373}\sqrt{362590e^4} \otimes e_5 + \frac{4}{3373}\sqrt{181654e^1} \otimes e_8$	{12349, 1356, 2356789, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:46	$0, 0, 0, 0, 0, \frac{72}{589}\sqrt{14}e^{12}, \frac{8}{589}\sqrt{546}e^{13}, \frac{8}{589}\sqrt{917}e^{24},$ $\frac{8}{589}\sqrt{1113}e^{16} + \frac{8}{589}\sqrt{742}e^{23}$	$(\frac{50}{589}, \frac{25}{589}, \frac{100}{589}, -\frac{199}{589}, \frac{72}{589}, \frac{75}{589}, \frac{150}{589}, -\frac{174}{589}, \frac{125}{589})$ $+ \frac{112}{589}\sqrt{5}e^2 \otimes e_4 + \frac{8}{589}\sqrt{2639}e^1 \otimes e_8$	{2356789, 236789, 34578, 3478}
941:46	$0, 0, 0, 0, 0, \frac{5}{383}\sqrt{910}e^{12}, \frac{20}{383}\sqrt{55}e^{13}, \frac{10}{383}\sqrt{115}e^{24},$ $\frac{10}{383}\sqrt{130}e^{16} + \frac{20}{383}\sqrt{15}e^{23}$	$(-\frac{11}{383}, \frac{92}{383}, -\frac{22}{383}, -\frac{4}{383}, -\frac{136}{383}, \frac{81}{383}, -\frac{33}{383}, \frac{88}{383}, \frac{70}{383})$ $+ \frac{10}{383}\sqrt{445}e^1 \otimes e_5 + \frac{5}{383}\sqrt{1630}e^2 \otimes e_7$	{12349, 12389, 34578, 357}
941:46	$0, 0, 0, 0, 0, \frac{44}{2401}\sqrt{105}e^{12}, \frac{132}{2401}\sqrt{15}e^{13}, \frac{22}{2401}\sqrt{690}e^{24},$ $\frac{330}{2401}\sqrt{2}e^{16} + \frac{2401}{2401}\sqrt{290}e^{23}$	$(-\frac{11}{2401}, \frac{209}{2401}, -\frac{22}{2401}, -\frac{66}{2401}, \frac{429}{2401}, \frac{198}{2401}, -\frac{33}{2401}, -\frac{253}{2401}, \frac{187}{2401})$ $+ \frac{22}{2401}\sqrt{1171}e^1 \otimes e_8 + \frac{22}{2401}\sqrt{201}e^5 \otimes e_9 + \frac{66}{2401}\sqrt{89}e^2 \otimes e_7$	{12349, 34578}
941:46	$0, 0, 0, 0, 0, \frac{2}{333}\sqrt{8555}e^{12}, \frac{5}{333}\sqrt{58}e^{13}, \frac{29}{333}\sqrt{10}e^{24},$ $\frac{8}{333}\sqrt{290}e^{16} + \frac{1}{333}\sqrt{870}e^{23}$	$(\frac{13}{333}, \frac{25}{111}, \frac{26}{333}, -\frac{70}{333}, -\frac{44}{111}, \frac{88}{333}, \frac{13}{111}, \frac{5}{333}, \frac{101}{333})$ $+ \frac{1}{333}\sqrt{38570}e^2 \otimes e_4 + \frac{2}{333}\sqrt{12035}e^1 \otimes e_5$	{1279, 1467, 2569, 45}
941:46	$0, 0, 0, 0, 0, \frac{4}{2875}\sqrt{32578}e^{12}, \frac{12}{2875}\sqrt{4654}e^{13}, \frac{4}{2875}\sqrt{53521}e^{24},$ $\frac{4}{2875}\sqrt{34905}e^{16} + \frac{4}{2875}\sqrt{117245}e^{23}$	$(-\frac{278}{2875}, \frac{26}{125}, -\frac{556}{2875}, \frac{34}{2875}, \frac{1474}{2875}, \frac{64}{575}, -\frac{834}{2875}, \frac{632}{2875}, \frac{42}{2875})$ $+ \frac{4}{2875}\sqrt{204239}e^5 \otimes e_9 + \frac{4}{2875}\sqrt{250779}e^2 \otimes e_7$	{145678, 1567, 2469, 2689}
941:46	$0, 0, 0, 0, 0, \frac{1}{1217}\sqrt{281694}e^{12}, \frac{2}{1217}\sqrt{176853}e^{13}, \frac{30}{1217}\sqrt{706}e^{24},$ $\frac{6}{1217}\sqrt{6001}e^{16} + \frac{4}{1217}\sqrt{24357}e^{23}$	$(-\frac{153}{1217}, \frac{600}{1217}, -\frac{306}{1217}, -\frac{88}{1217}, \frac{212}{1217}, \frac{447}{1217}, -\frac{459}{1217}, \frac{512}{1217}, \frac{294}{1217})$ $+ \frac{3}{1217}\sqrt{236510}e^2 \otimes e_7$	{1234, 12345, 12358, 1238, 345789, 34789, 3579, 379}
941:46	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{301}e^{12}, \frac{1}{89}\sqrt{1290}e^{13}, \frac{1}{89}\sqrt{989}e^{24},$ $\frac{1}{89}\sqrt{903}e^{16} + \frac{1}{89}\sqrt{2193}e^{23}$	$(\frac{8}{89}, \frac{8}{89}, \frac{16}{89}, -\frac{35}{89}, \frac{9}{89}, \frac{16}{89}, \frac{24}{89}, -\frac{27}{89}, \frac{24}{89})$ $+ \frac{1}{89}\sqrt{2795}e^2 \otimes e_4 - \frac{1}{89}\sqrt{4085}e^3 \otimes e_8$	{1256789, 126789, 14578, 1478, 2589, 289, 4568, 468}
941:46	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{301}e^{12}, \frac{1}{89}\sqrt{1290}e^{13}, \frac{1}{89}\sqrt{989}e^{24},$ $\frac{1}{89}\sqrt{903}e^{16} + \frac{1}{89}\sqrt{2193}e^{23}$	$(\frac{8}{89}, \frac{8}{89}, \frac{16}{89}, -\frac{35}{89}, \frac{9}{89}, \frac{16}{89}, \frac{24}{89}, -\frac{27}{89}, \frac{24}{89})$ $+ \frac{1}{89}\sqrt{2795}e^2 \otimes e_4 + \frac{1}{89}\sqrt{4085}e^3 \otimes e_8$	{1256789, 126789, 14578, 1478, 2589, 289, 4568, 468}
941:46	$0, 0, 0, 0, 0, \frac{3}{221}\sqrt{805}e^{12}, \frac{221}{221}\sqrt{3243}e^{13}, \frac{3}{221}\sqrt{851}e^{24},$ $\frac{2}{221}\sqrt{1173}e^{16} + \frac{3}{221}\sqrt{391}e^{23}$	$(\frac{10}{221}, -\frac{11}{221}, \frac{20}{221}, -\frac{38}{221}, \frac{99}{221}, -\frac{1}{221}, \frac{30}{221}, \frac{49}{221}, \frac{9}{221})$ $+ \frac{1}{221}\sqrt{11247}e^5 \otimes e_7 + \frac{2}{221}\sqrt{4209}e^3 \otimes e_8$	{126789, 1478, 2589, 4568}
941:47	$0, 0, 0, 0, 0, \frac{6}{295}\sqrt{5}e^{12}, \frac{6}{295}\sqrt{230}e^{13}, \frac{6}{295}\sqrt{267}e^{23},$ $\frac{6}{295}\sqrt{74}e^{16} + \frac{18}{295}\sqrt{21}e^{45}$	$(-\frac{48}{295}, \frac{12}{59}, \frac{36}{295}, -\frac{54}{295}, \frac{18}{295}, \frac{12}{295}, -\frac{12}{295}, \frac{96}{295}, -\frac{36}{295})$ $+ \frac{12}{295}\sqrt{131}e^3 \otimes e_9 + \frac{6}{295}\sqrt{395}e^2 \otimes e_7 + \frac{72}{295}e^5 \otimes e_4$	{24689, 25689}
941:47	$0, 0, 0, 0, 0, \frac{4}{1005}\sqrt{11886}e^{12}, \frac{2}{1005}\sqrt{566}e^{13}, \frac{4}{1005}\sqrt{11886}e^{23},$ $\frac{4}{1005}\sqrt{16697}e^{16} + \frac{4}{335}\sqrt{283}e^{45}$	$(\frac{4}{15}, -\frac{208}{1005}, -\frac{6}{67}, \frac{149}{335}, -\frac{119}{1005}, \frac{4}{67}, \frac{178}{1005}, -\frac{298}{1005}, \frac{328}{1005})$ $+ \frac{2}{335}\sqrt{18678}e^1 \otimes e_8 + \frac{566}{1005}e^4 \otimes e_5$	{1467, 1567, 3478, 3578}
941:47	$0, 0, 0, 0, 0, \frac{9}{82}\sqrt{7}e^{12}, \frac{3}{41}\sqrt{10}e^{13}, \frac{9}{82}\sqrt{7}e^{23},$ $\frac{3}{82}\sqrt{46}e^{16} + \frac{3}{82}\sqrt{5}e^{45}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, 0, \frac{9}{41}, \frac{6}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41})$ $+ \frac{3}{82}\sqrt{119}e^2 \otimes e_7 + \frac{3}{82}\sqrt{142}e^1 \otimes e_8 + \frac{9}{41}e^5 \otimes e_4$	{1467, 1567, 3478, 3578}
941:47	$0, 0, 0, 0, 0, \frac{9}{82}\sqrt{7}e^{12}, \frac{3}{41}\sqrt{10}e^{13}, \frac{9}{82}\sqrt{7}e^{23},$ $\frac{3}{82}\sqrt{46}e^{16} + \frac{3}{82}\sqrt{5}e^{45}$	$(\frac{3}{41}, \frac{3}{41}, -\frac{9}{41}, 0, \frac{9}{41}, \frac{6}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{9}{41})$ $- \frac{3}{82}\sqrt{119}e^2 \otimes e_7 + \frac{3}{82}\sqrt{142}e^1 \otimes e_8 + \frac{9}{41}e^5 \otimes e_4$	{1467, 1567, 3478, 3578}
941:47	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{42}e^{12}, \frac{2}{59}\sqrt{39}e^{13}, \frac{12}{59}\sqrt{2}e^{23},$ $\frac{2}{59}\sqrt{66}e^{16} + \frac{1}{59}\sqrt{114}e^{45}$	$(\frac{6}{59}, -\frac{12}{59}, \frac{9}{59}, 0, 0, -\frac{6}{59}, \frac{15}{59}, -\frac{3}{59}, 0)$ $+ \frac{2}{59}\sqrt{114}e^1 \otimes e_8 + \frac{2}{59}\sqrt{123}e^3 \otimes e_9$	{24689, 34578, 378}
941:47	$0, 0, 0, 0, 0, \frac{1}{1441}\sqrt{330990}e^{12}, \frac{2}{1441}\sqrt{155465}e^{13}, \frac{12}{1441}\sqrt{6018}e^{23},$ $\frac{2}{1441}\sqrt{122366}e^{16} + \frac{1}{1441}\sqrt{800394}e^{45}$	$(-\frac{142}{1441}, -\frac{20}{1441}, \frac{699}{1441}, -\frac{152}{1441}, \frac{152}{1441}, -\frac{162}{1441}, \frac{557}{1441}, \frac{679}{1441}, -\frac{304}{1441})$ $+ \frac{2}{1441}\sqrt{598791}e^3 \otimes e_9$	{123456, 1236, 1479, 23457, 237, 469}
941:47	$0, 0, 0, 0, 0, \frac{4}{331}\sqrt{429}e^{12}, \frac{6}{331}\sqrt{715}e^{13}, \frac{4}{331}\sqrt{429}e^{23},$ $\frac{13}{331}\sqrt{22}e^{16} + \frac{1}{331}\sqrt{16302}e^{45}$	$(\frac{59}{331}, -\frac{9}{331}, -\frac{75}{331}, \frac{127}{331}, -\frac{18}{331}, \frac{50}{331}, -\frac{16}{331}, -\frac{84}{331}, \frac{109}{331})$ $+ \frac{1}{331}\sqrt{41470}e^4 \otimes e_7 + \frac{7}{331}\sqrt{858}e^1 \otimes e_8$	{12349, 167, 24689, 378}
941:47	$0, 0, 0, 0, 0, \frac{2}{3885}\sqrt{330990}e^{12}, \frac{4}{3885}\sqrt{155465}e^{13}, \frac{8}{1295}\sqrt{6018}e^{23},$ $\frac{4}{3885}\sqrt{122366}e^{16} + \frac{2}{3885}\sqrt{800394}e^{45}$	$(-\frac{284}{3885}, -\frac{8}{777}, \frac{466}{1295}, \frac{233}{1295}, -\frac{1307}{3885}, -\frac{108}{1295}, \frac{1114}{3885}, \frac{194}{555}, -\frac{608}{3885})$ $+ \frac{2006}{3885}e^4 \otimes e_5 + \frac{4}{3885}\sqrt{598791}e^3 \otimes e_9$	{1479, 1579, 469, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:47	$0, 0, 0, 0, 0, \frac{7}{89}\sqrt{65}e^{12}, \frac{1}{89}\sqrt{3458}e^{13}, \frac{7}{89}\sqrt{65}e^{23},$ $\frac{1}{89}\sqrt{546}e^{16} + \frac{13}{89}\sqrt{7}e^{45}$	$(-\frac{17}{89}, \frac{54}{89}, -\frac{20}{89}, \frac{10}{89}, \frac{10}{89}, \frac{37}{89}, -\frac{37}{89}, \frac{34}{89}, \frac{20}{89})$ $+ \frac{1}{89}\sqrt{13195}e^2 \otimes e_7$	{123, 12345, 14679, 24568, 268, 34789}
941:47	$0, 0, 0, 0, 0, \frac{1}{187}\sqrt{78}e^{12}, \frac{2}{187}\sqrt{213}e^{13}, \frac{24}{187}e^{23},$ $\frac{2}{187}\sqrt{78}e^{16} + \frac{1}{187}\sqrt{714}e^{45}$	$(\frac{6}{187}, -\frac{12}{187}, \frac{9}{187}, -\frac{24}{187}, \frac{24}{187}, -\frac{6}{187}, \frac{15}{187}, -\frac{3}{187}, 0)$ $+ \frac{12}{187}\sqrt{6}e^5 \otimes e_7 + \frac{2}{187}\sqrt{327}e^3 \otimes e_9 + \frac{4}{187}\sqrt{57}e^1 \otimes e_8$	{123456, 1479}
941:47	$0, 0, 0, 0, 0, \frac{6}{259}\sqrt{5}e^{12}, \frac{6}{259}\sqrt{230}e^{13}, \frac{6}{259}\sqrt{267}e^{23},$ $\frac{6}{259}\sqrt{74}e^{16} + \frac{18}{259}\sqrt{21}e^{45}$	$(-\frac{48}{259}, \frac{60}{259}, \frac{36}{259}, -\frac{18}{259}, -\frac{18}{259}, \frac{12}{259}, -\frac{12}{259}, \frac{96}{259}, -\frac{36}{259})$ $+ \frac{12}{259}\sqrt{131}e^3 \otimes e_9 + \frac{6}{259}\sqrt{395}e^2 \otimes e_7$	{24689, 34578, 378}
941:47	$0, 0, 0, 0, 0, \frac{9}{73}\sqrt{7}e^{12}, \frac{6}{73}\sqrt{10}e^{13}, \frac{9}{73}\sqrt{7}e^{23},$ $\frac{3}{73}\sqrt{46}e^{16} + \frac{3}{73}\sqrt{5}e^{45}$	$(\frac{6}{73}, \frac{6}{73}, -\frac{18}{73}, \frac{9}{73}, \frac{9}{73}, \frac{12}{73}, -\frac{12}{73}, -\frac{12}{73}, \frac{18}{73})$ $- \frac{3}{73}\sqrt{119}e^2 \otimes e_7 + \frac{3}{73}\sqrt{142}e^1 \otimes e_8$	{123459, 1239, 1467, 245689, 2689, 3478}
941:47	$0, 0, 0, 0, 0, \frac{1}{2253}\sqrt{546}e^{12}, \frac{1}{2253}\sqrt{1046}e^{13}, \frac{1}{2253}\sqrt{898}e^{23},$ $\frac{1}{2253}\sqrt{222}e^{16} + \frac{2}{2253}\sqrt{394}e^{45}$	$(\frac{14}{2253}, -\frac{23}{2253}, \frac{2}{751}, \frac{7}{751}, -\frac{16}{2253}, -\frac{3}{751}, \frac{20}{2253}, -\frac{17}{2253}, \frac{5}{2253})$ $+ \frac{1}{2253}\sqrt{1238}e^5 \otimes e_8 + \frac{4}{2253}\sqrt{82}e^4 \otimes e_7 + \frac{5}{2253}\sqrt{66}e^3 \otimes e_9$	{2489, 3678}
941:47	$0, 0, 0, 0, 0, \frac{9}{73}\sqrt{7}e^{12}, \frac{6}{73}\sqrt{10}e^{13}, \frac{9}{73}\sqrt{7}e^{23},$ $\frac{3}{73}\sqrt{46}e^{16} + \frac{3}{73}\sqrt{5}e^{45}$	$(\frac{6}{73}, \frac{6}{73}, -\frac{18}{73}, \frac{9}{73}, \frac{9}{73}, \frac{12}{73}, -\frac{12}{73}, -\frac{12}{73}, \frac{18}{73})$ $+ \frac{3}{73}\sqrt{119}e^2 \otimes e_7 + \frac{3}{73}\sqrt{142}e^1 \otimes e_8$	{123459, 1239, 1467, 245689, 2689, 3478}
941:47	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{66}e^{12}, \frac{4}{33}\sqrt{11}e^{13}, \frac{2}{33}\sqrt{22}e^{23},$ $\frac{2}{33}\sqrt{33}e^{16} + \frac{1}{33}\sqrt{286}e^{45}$	$(\frac{4}{33}, \frac{2}{33}, -\frac{3}{11}, \frac{2}{11}, \frac{4}{33}, \frac{2}{11}, -\frac{5}{33}, -\frac{7}{33}, \frac{10}{33})$ $+ \frac{2}{33}\sqrt{77}e^5 \otimes e_8 + \frac{4}{33}\sqrt{22}e^4 \otimes e_7$	{23579, 2489, 3678, 456}
941:47	$0, 0, 0, 0, 0, \frac{9}{1951}\sqrt{2046}e^{12}, \frac{2}{1951}\sqrt{117645}e^{13}, \frac{12}{1951}\sqrt{1023}e^{23},$ $\frac{2}{1951}\sqrt{15686}e^{16} + \frac{1}{1951}\sqrt{464442}e^{45}$	$(-\frac{178}{1951}, \frac{204}{1951}, \frac{189}{1951}, \frac{352}{1951}, -\frac{504}{1951}, \frac{26}{1951}, \frac{11}{1951}, \frac{393}{1951}, -\frac{152}{1951})$ $+ \frac{4}{1951}\sqrt{36487}e^4 \otimes e_7 + \frac{6}{1951}\sqrt{17391}e^3 \otimes e_9$	{1256789, 13458, 2489, 3678}
941:47	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{411}e^{12}, \frac{1}{83}\sqrt{5343}e^{13}, \frac{3}{166}\sqrt{411}e^{23},$ $\frac{1}{166}\sqrt{11234}e^{16} + \frac{1}{166}\sqrt{18906}e^{45}$	$(\frac{1}{332}, \frac{51}{166}, -\frac{81}{332}, \frac{97}{166}, -\frac{45}{166}, \frac{103}{332}, -\frac{20}{83}, \frac{21}{332}, \frac{26}{83})$ $+ \frac{1}{83}\sqrt{9727}e^4 \otimes e_7$	{1234689, 125679, 1345, 178, 235789, 249, 367, 4568}
941:47	$0, 0, 0, 0, 0, \frac{1}{249}\sqrt{2915}e^{12}, \frac{1}{249}\sqrt{4558}e^{13}, \frac{1}{249}\sqrt{15105}e^{23},$ $\frac{1}{249}\sqrt{3286}e^{16} + \frac{1}{249}\sqrt{11183}e^{45}$	$(\frac{8}{249}, \frac{49}{249}, -\frac{65}{249}, \frac{30}{83}, -\frac{25}{249}, \frac{19}{83}, -\frac{19}{83}, -\frac{16}{249}, \frac{65}{249})$ $+ \frac{2}{249}\sqrt{6095}e^4 \otimes e_8 + \frac{5}{249}\sqrt{901}e^2 \otimes e_7$	{12345, 14679, 268, 35789}
941:47	$0, 0, 0, 0, 0, \frac{1}{2227}\sqrt{195330}e^{12}, \frac{1}{2227}\sqrt{175414}e^{13}, \frac{1}{2227}\sqrt{575266}e^{23},$ $\frac{1}{2227}\sqrt{97282}e^{16} + \frac{10}{2227}\sqrt{5362}e^{45}$	$(\frac{114}{2227}, -\frac{281}{2227}, \frac{330}{2227}, \frac{432}{2227}, -\frac{485}{2227}, -\frac{167}{2227}, \frac{444}{2227}, \frac{49}{2227}, -\frac{53}{2227})$ $+ \frac{1}{2227}\sqrt{702422}e^4 \otimes e_8 + \frac{1}{2227}\sqrt{838770}e^3 \otimes e_9$	{123456, 1479, 23457, 469}
941:47	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{42}e^{12}, \frac{4}{127}\sqrt{39}e^{13}, \frac{24}{127}\sqrt{2}e^{23},$ $\frac{4}{127}\sqrt{66}e^{16} + \frac{1}{127}\sqrt{114}e^{45}$	$(\frac{12}{127}, -\frac{24}{127}, \frac{18}{127}, -\frac{9}{127}, \frac{9}{127}, -\frac{12}{127}, \frac{30}{127}, -\frac{6}{127}, 0)$ $+ \frac{18}{127}e^5 \otimes e_4 + \frac{4}{127}\sqrt{114}e^1 \otimes e_8 + \frac{4}{127}\sqrt{123}e^3 \otimes e_9$	{24689, 25689}
941:47	$0, 0, 0, 0, 0, \frac{2}{339}\sqrt{4065}e^{12}, \frac{4}{339}\sqrt{542}e^{13}, \frac{2}{339}\sqrt{4065}e^{23},$ $\frac{2}{339}\sqrt{3794}e^{16} + \frac{2}{113}\sqrt{542}e^{45}$	$(\frac{31}{339}, \frac{38}{339}, \frac{15}{113}, \frac{107}{113}, -\frac{221}{339}, \frac{23}{113}, \frac{76}{339}, \frac{83}{339}, \frac{100}{339})$ $+ \frac{542}{339}e^4 \otimes e_5$	{12349, 12359, 124789, 125789, 234679, 235679, 24689, 25689}
941:47	$0, 0, 0, 0, 0, \frac{3}{305}\sqrt{53}e^{12}, \frac{3}{305}\sqrt{166}e^{13}, \frac{9}{305}\sqrt{41}e^{23},$ $\frac{3}{305}\sqrt{34}e^{16} + \frac{3}{305}\sqrt{303}e^{45}$	$(-\frac{12}{305}, \frac{3}{61}, \frac{9}{305}, -\frac{51}{305}, \frac{42}{305}, \frac{3}{305}, -\frac{3}{305}, \frac{24}{305}, -\frac{9}{305})$ $+ \frac{3}{305}\sqrt{277}e^2 \otimes e_7 + \frac{6}{305}\sqrt{118}e^3 \otimes e_9 + \frac{6}{305}\sqrt{93}e^5 \otimes e_8$	{123456, 1579}
941:47	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{11886}e^{12}, \frac{5}{361}\sqrt{566}e^{13}, \frac{2}{361}\sqrt{11886}e^{23},$ $\frac{2}{361}\sqrt{16697}e^{16} + \frac{6}{361}\sqrt{283}e^{45}$	$(\frac{134}{361}, -\frac{104}{361}, -\frac{45}{361}, \frac{82}{361}, \frac{82}{361}, \frac{30}{361}, \frac{89}{361}, -\frac{149}{361}, \frac{164}{361})$ $+ \frac{3}{361}\sqrt{18678}e^1 \otimes e_8$	{123459, 1239, 1467, 245689, 2689, 3478}
941:47	$0, 0, 0, 0, 0, \frac{14}{269}\sqrt{65}e^{12}, \frac{2}{269}\sqrt{3458}e^{13}, \frac{14}{269}\sqrt{65}e^{23},$ $\frac{2}{269}\sqrt{546}e^{16} + \frac{26}{269}\sqrt{7}e^{45}$	$(-\frac{34}{269}, \frac{108}{269}, -\frac{40}{269}, \frac{111}{269}, -\frac{71}{269}, \frac{74}{269}, -\frac{74}{269}, \frac{68}{269}, \frac{40}{269})$ $+ \frac{182}{269}e^4 \otimes e_5 + \frac{2}{269}\sqrt{13195}e^2 \otimes e_7$	{14679, 15679, 34789, 35789}
941:47	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{7890}e^{12}, \frac{4}{277}\sqrt{263}e^{13}, \frac{10}{277}\sqrt{526}e^{23},$ $\frac{1}{277}\sqrt{1841}e^{16} + \frac{1}{277}\sqrt{51022}e^{45}$	$(\frac{84}{277}, -\frac{38}{277}, -\frac{45}{277}, \frac{180}{277}, -\frac{50}{277}, \frac{46}{277}, \frac{39}{277}, -\frac{83}{277}, \frac{130}{277})$ $+ \frac{2}{277}\sqrt{30245}e^4 \otimes e_8$	{1234679, 125689, 1378, 145, 2349, 25789, 368, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:48	$0, 0, 0, 0, 0, \frac{12}{233}\sqrt{77e^{12}}, \frac{1}{233}\sqrt{28182e^{13}}, \frac{7}{233}\sqrt{462e^{14}},$ $\frac{7}{233}\sqrt{462e^{16}} + \frac{12}{233}\sqrt{77e^{35}}$	$(\frac{98}{233}, -\frac{133}{233}, \frac{1}{233}, -\frac{11}{233}, \frac{62}{233}, -\frac{35}{233}, \frac{99}{233}, \frac{87}{233}, \frac{63}{233})$ $+ \frac{3}{233}\sqrt{10010e^1} \otimes e_2$	{13459, 13589, 1479, 1789, 23478, 237, 2458, 25}
941:48	$0, 0, 0, 0, 0, \frac{4}{2987}\sqrt{50547e^{12}}, \frac{6}{2987}\sqrt{8798e^{13}}, \frac{2}{2987}\sqrt{645906e^{14}},$ $\frac{6}{2987}\sqrt{36354e^{16}} + \frac{6}{2987}\sqrt{41666e^{35}}$	$(-\frac{155}{2987}, \frac{644}{2987}, -\frac{674}{2987}, \frac{167}{2987}, \frac{1008}{2987}, \frac{489}{2987}, -\frac{829}{2987}, \frac{12}{2987}, \frac{334}{2987})$ $+ \frac{2}{2987}\sqrt{758454e^5} \otimes e_8 + \frac{4}{2987}\sqrt{152637e^4} \otimes e_7$	{1345, 178, 3567, 468}
941:48	$0, 0, 0, 0, 0, \frac{6}{3107}\sqrt{37774e^{12}}, \frac{4}{3107}\sqrt{150591e^{13}}, \frac{2}{3107}\sqrt{407838e^{14}},$ $\frac{6}{3107}\sqrt{48682e^{16}} + \frac{108}{3107}\sqrt{101e^{35}}$	$(\frac{399}{3107}, -\frac{302}{3107}, \frac{854}{3107}, -\frac{813}{3107}, \frac{358}{3107}, \frac{97}{3107}, \frac{1253}{3107}, -\frac{414}{3107}, \frac{496}{3107})$ $+ \frac{2}{3107}\sqrt{1057470e^1} \otimes e_4 + \frac{2}{3107}\sqrt{668418e^3} \otimes e_5$	{136, 1567, 347, 45}
941:48	$0, 0, 0, 0, 0, \frac{18}{3773}\sqrt{318e^{12}}, \frac{106}{3773}\sqrt{51e^{13}}, \frac{4}{3773}\sqrt{65667e^{14}},$ $\frac{12}{3773}\sqrt{530e^{16}} + \frac{2}{3773}\sqrt{254082e^{35}}$	$(-\frac{204}{3773}, \frac{61}{539}, -\frac{432}{3773}, \frac{337}{3773}, \frac{41}{343}, \frac{223}{3773}, -\frac{636}{3773}, \frac{19}{539}, \frac{19}{3773})$ $+ \frac{4}{3773}\sqrt{68529e^4} \otimes e_9 + \frac{4}{3773}\sqrt{70914e^5} \otimes e_8$	{1236789, 13457, 2579, 4678}
941:48	$0, 0, 0, 0, 0, \frac{1}{761}\sqrt{22330e^{12}}, \frac{1}{761}\sqrt{53130e^{13}}, \frac{42}{761}\sqrt{110e^{14}},$ $\frac{1}{761}\sqrt{71610e^{16}} + \frac{11}{761}\sqrt{210e^{35}}$	$(-\frac{182}{761}, \frac{379}{761}, -\frac{27}{761}, \frac{176}{761}, \frac{42}{761}, \frac{197}{761}, -\frac{209}{761}, -\frac{6}{761}, \frac{15}{761})$ $+ \frac{1}{761}\sqrt{271810e^4} \otimes e_7 + \frac{3}{761}\sqrt{28490e^2} \otimes e_8$	{12345, 156789, 23567, 4589}
941:48	$0, 0, 0, 0, 0, \frac{11}{3181}\sqrt{798e^{12}}, \frac{22}{3181}\sqrt{606e^{13}}, \frac{11}{3181}\sqrt{3778e^{14}},$ $\frac{22}{3181}\sqrt{65e^{16}} + \frac{22}{3181}\sqrt{878e^{35}}$	$(\frac{77}{3181}, -\frac{121}{3181}, \frac{319}{3181}, \frac{154}{3181}, \frac{352}{3181}, -\frac{44}{3181}, \frac{242}{3181}, \frac{231}{3181}, \frac{33}{3181})$ $+ \frac{11}{3181}\sqrt{1490e^2} \otimes e_7 + \frac{11}{3181}\sqrt{3766e^5} \otimes e_8 + \frac{66}{3181}\sqrt{101e^4} \otimes e_9$	{1236789, 2579}
941:48	$0, 0, 0, 0, 0, \frac{2}{1231}\sqrt{42559e^{12}}, \frac{2}{3693}\sqrt{700183e^{13}}, \frac{2}{3693}\sqrt{608069e^{14}},$ $\frac{4}{3693}\sqrt{2915e^{16}} + \frac{4}{3693}\sqrt{46057e^{35}}$	$(\frac{127}{1231}, -\frac{785}{3693}, -\frac{204}{1231}, \frac{935}{3693}, \frac{589}{3693}, -\frac{404}{3693}, -\frac{77}{1231}, \frac{1316}{3693}, -\frac{23}{3693})$ $+ \frac{14}{3693}\sqrt{20405e^1} \otimes e_2 + \frac{22}{3693}\sqrt{8215e^4} \otimes e_7$	{13459, 1789, 237, 2458}
941:48	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{6630e^{12}}, \frac{2}{571}\sqrt{22763e^{13}}, \frac{2}{571}\sqrt{60554e^{14}},$ $\frac{2}{571}\sqrt{26078e^{16}} + \frac{4}{571}\sqrt{14586e^{35}}$	$(\frac{58}{571}, \frac{111}{571}, -\frac{80}{571}, -\frac{193}{571}, \frac{307}{571}, \frac{169}{571}, -\frac{22}{571}, -\frac{135}{571}, \frac{227}{571})$ $+ \frac{14}{571}\sqrt{2210e^5} \otimes e_8$	{1236789, 124569, 13457, 18, 23489, 2579, 356, 4678}
941:48	$0, 0, 0, 0, 0, \frac{2}{451}\sqrt{7437e^{12}}, \frac{2}{451}\sqrt{18291e^{13}}, \frac{12}{451}\sqrt{201e^{14}},$ $\frac{3}{451}\sqrt{2881e^{16}} + \frac{3}{451}\sqrt{1273e^{35}}$	$(-\frac{167}{902}, \frac{106}{451}, \frac{70}{451}, \frac{375}{902}, -\frac{131}{451}, \frac{45}{902}, \frac{27}{902}, \frac{104}{451}, -\frac{61}{451})$ $+ \frac{1}{451}\sqrt{76983e^3} \otimes e_5 + \frac{1}{451}\sqrt{91455e^4} \otimes e_7$	{134, 1578, 367, 4568}
941:48	$0, 0, 0, 0, 0, \frac{20}{811}\sqrt{330e^{12}}, \frac{10}{811}\sqrt{330e^{13}}, \frac{50}{811}\sqrt{22e^{14}},$ $\frac{30}{811}\sqrt{110e^{16}} + \frac{30}{811}\sqrt{110e^{35}}$	$(\frac{165}{811}, -\frac{30}{811}, -\frac{30}{811}, -\frac{335}{811}, \frac{330}{811}, \frac{135}{811}, \frac{135}{811}, -\frac{170}{811}, \frac{300}{811})$ $+ \frac{10}{811}\sqrt{3270e^5} \otimes e_8 + \frac{20}{811}\sqrt{955e^1} \otimes e_4$	{12389, 1678, 2346789, 48}
941:48	$0, 0, 0, 0, 0, \frac{3}{1147}\sqrt{35238e^{12}}, \frac{4}{1147}\sqrt{27687e^{13}}, \frac{1}{1147}\sqrt{780270e^{14}},$ $\frac{1}{1147}\sqrt{541994e^{16}} + \frac{2}{1147}\sqrt{168639e^{35}}$	$(-\frac{55}{1147}, \frac{351}{1147}, \frac{13}{31}, -\frac{303}{1147}, -\frac{240}{1147}, \frac{8}{31}, \frac{426}{1147}, -\frac{358}{1147}, \frac{241}{1147})$ $+ \frac{1}{1147}\sqrt{1652830e^3} \otimes e_8$	{123469, 1256789, 1345, 178, 2379, 24589, 3567, 468}
941:48	$0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{823386e^{12}}, \frac{4}{1157}\sqrt{54137e^{13}}, \frac{4}{1157}\sqrt{26439e^{14}},$ $\frac{5}{1157}\sqrt{2518e^{16}} + \frac{1}{1157}\sqrt{148562e^{35}}$	$(-\frac{336}{1157}, \frac{830}{1157}, -\frac{93}{1157}, \frac{360}{1157}, \frac{251}{1157}, \frac{38}{89}, -\frac{33}{89}, \frac{24}{1157}, \frac{158}{1157})$ $+ \frac{1}{1157}\sqrt{2429870e^2} \otimes e_7$	{1234589, 12359, 145678, 1567, 2469, 2689, 347, 378}
941:48	$0, 0, 0, 0, 0, \frac{1}{185}\sqrt{1290e^{12}}, \frac{2}{185}\sqrt{330e^{13}}, \frac{1}{185}\sqrt{1790e^{14}},$ $\frac{2}{37}\sqrt{13e^{16}} + \frac{4}{185}\sqrt{85e^{35}}$	$(-\frac{1}{37}, \frac{13}{185}, \frac{13}{185}, -\frac{2}{37}, -\frac{2}{37}, \frac{8}{185}, \frac{8}{185}, -\frac{3}{37}, \frac{3}{185})$ $+ \frac{1}{185}\sqrt{1330e^2} \otimes e_7 + \frac{1}{37}\sqrt{62e^5} \otimes e_8 + \frac{6}{185}\sqrt{55e^1} \otimes e_4$	{2469, 347}
941:48	$0, 0, 0, 0, 0, \frac{34}{6261}\sqrt{190e^{12}}, \frac{17}{6261}\sqrt{1954e^{13}}, \frac{34}{6261}\sqrt{1258e^{14}},$ $\frac{34}{6261}\sqrt{35e^{16}} + \frac{17}{6261}\sqrt{4146e^{35}}$	$(\frac{119}{6261}, -\frac{170}{6261}, -\frac{697}{6261}, \frac{119}{2087}, \frac{255}{2087}, -\frac{17}{2087}, -\frac{578}{6261}, \frac{476}{6261}, \frac{68}{6261})$ $+ \frac{17}{2087}\sqrt{542e^5} \otimes e_8 + \frac{17}{6261}\sqrt{1898e^1} \otimes e_2 + \frac{34}{6261}\sqrt{1237e^4} \otimes e_9$	{13789, 2478}
941:48	$0, 0, 0, 0, 0, \frac{2}{3117}\sqrt{99007e^{12}}, \frac{2}{3117}\sqrt{33367e^{13}}, \frac{4}{3117}\sqrt{125263e^{14}},$ $\frac{2}{3117}\sqrt{334217e^{16}} + \frac{2}{3117}\sqrt{234663e^{35}}$	$(\frac{307}{3117}, -\frac{787}{3117}, -\frac{56}{3117}, \frac{307}{1039}, -\frac{39}{1039}, -\frac{160}{1039}, \frac{251}{3117}, \frac{1228}{3117}, -\frac{173}{3117})$ $+ \frac{10}{3117}\sqrt{33367e^4} \otimes e_9 + \frac{32}{3117}\sqrt{2735e^1} \otimes e_2$	{13789, 1589, 23458, 2478}
941:48	$0, 0, 0, 0, 0, \frac{2}{2821}\sqrt{50165e^{12}}, \frac{2}{2821}\sqrt{33655e^{13}}, \frac{4}{2821}\sqrt{94615e^{14}},$ $\frac{2}{2821}\sqrt{59055e^{16}} + \frac{6}{2821}\sqrt{65405e^{35}}$	$(-\frac{251}{2821}, \frac{55}{403}, -\frac{568}{2821}, \frac{1153}{2821}, \frac{451}{2821}, \frac{134}{2821}, -\frac{9}{2821}, \frac{902}{31}, -\frac{9}{217})$ $+ \frac{2}{2821}\sqrt{916305e^4} \otimes e_9 + \frac{8}{2821}\sqrt{42545e^5} \otimes e_7$	{13789, 1589, 23458, 2478}
941:48	$0, 0, 0, 0, 0, \frac{2}{3097}\sqrt{237183e^{12}}, \frac{4}{3097}\sqrt{91857e^{13}}, \frac{4}{3097}\sqrt{116535e^{14}},$ $\frac{4}{3097}\sqrt{28334e^{16}} + \frac{24}{3097}\sqrt{1371e^{35}}$	$(\frac{455}{3097}, -\frac{459}{3097}, \frac{616}{3097}, -\frac{753}{3097}, -\frac{165}{3097}, -\frac{4}{3097}, \frac{1071}{3097}, -\frac{298}{3097}, \frac{451}{3097})$ $+ \frac{2}{3097}\sqrt{568965e^1} \otimes e_2 + \frac{2}{3097}\sqrt{724345e^3} \otimes e_8$	{1345, 178, 2379, 24589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:48	$0, 0, 0, 0, 0, \frac{56}{493}\sqrt{3}e^{12}, \frac{8}{493}\sqrt{411}e^{13}, \frac{24}{493}\sqrt{30}e^{14},$ $\frac{8}{493}\sqrt{282}e^{16} + \frac{72}{493}\sqrt{5}e^{35}$	$(-\frac{4}{493}, \frac{84}{493}, -\frac{8}{493}, -\frac{100}{493}, \frac{84}{493}, \frac{80}{493}, -\frac{12}{493}, -\frac{104}{493}, \frac{76}{493})$ $+\frac{16}{493}\sqrt{138}e^5 \otimes e_7 + \frac{24}{493}\sqrt{15}e^1 \otimes e_4 + \frac{8}{493}\sqrt{687}e^3 \otimes e_8$	{178, 24589}
941:48	$0, 0, 0, 0, 0, \frac{2}{1147}\sqrt{168639}e^{12}, \frac{4}{1147}\sqrt{27687}e^{13}, \frac{1}{1147}\sqrt{541994}e^{14},$ $\frac{1}{1147}\sqrt{780270}e^{16} + \frac{3}{1147}\sqrt{35238}e^{35}$	$(\frac{339}{1147}, -\frac{240}{1147}, \frac{87}{1147}, -\frac{500}{1147}, \frac{351}{1147}, \frac{99}{1147}, \frac{426}{1147}, -\frac{161}{1147}, \frac{438}{1147})$ $+\frac{1}{1147}\sqrt{1652830}e^1 \otimes e_4$	{12359, 1279, 136, 1567, 2345679, 2469, 347, 45}
941:48	$0, 0, 0, 0, 0, \frac{70}{349}e^{12}, \frac{14}{1047}\sqrt{15}e^{13}, \frac{4}{1047}\sqrt{10815}e^{14},$ $\frac{14}{1047}\sqrt{165}e^{16} + \frac{2}{1047}\sqrt{39585}e^{35}$	$(-\frac{133}{1047}, \frac{65}{349}, \frac{72}{349}, \frac{139}{1047}, -\frac{287}{1047}, \frac{62}{1047}, \frac{83}{1047}, \frac{2}{1047}, -\frac{71}{1047})$ $+\frac{2}{1047}\sqrt{48405}e^4 \otimes e_9 + \frac{2}{1047}\sqrt{3255}e^3 \otimes e_8$	{125689, 13457, 239, 4678}
941:48	$0, 0, 0, 0, 0, \frac{16}{3697}\sqrt{5406}e^{12}, \frac{12}{3697}\sqrt{35139}e^{13}, \frac{2}{3697}\sqrt{416262}e^{14},$ $\frac{2}{3697}\sqrt{92803}e^{16} + \frac{2}{3697}\sqrt{300934}e^{35}$	$(-\frac{924}{3697}, \frac{1710}{3697}, \frac{832}{3697}, \frac{761}{3697}, -\frac{970}{3697}, \frac{786}{3697}, -\frac{92}{3697}, -\frac{163}{3697}, -\frac{138}{3697})$ $+\frac{2}{3697}\sqrt{1444303}e^3 \otimes e_5 + \frac{2}{3697}\sqrt{1617295}e^2 \otimes e_7$	{123, 12348, 2456, 2568}
941:48	$0, 0, 0, 0, 0, \frac{13}{1837}\sqrt{573}e^{12}, \frac{13}{1837}\sqrt{1043}e^{13}, \frac{13}{1837}\sqrt{890}e^{14},$ $\frac{13}{1837}\sqrt{541}e^{16} + \frac{13}{1837}\sqrt{769}e^{35}$	$(\frac{130}{1837}, -\frac{39}{1837}, -\frac{39}{1837}, -\frac{338}{1837}, \frac{260}{1837}, \frac{91}{1837}, \frac{91}{1837}, -\frac{208}{1837}, \frac{221}{1837})$ $+\frac{13}{1837}\sqrt{865}e^1 \otimes e_2 + \frac{52}{1837}\sqrt{95}e^3 \otimes e_8 + \frac{65}{1837}\sqrt{43}e^5 \otimes e_7$	{1345, 178, 2379, 24589}
941:48	$0, 0, 0, 0, 0, \frac{13}{1837}\sqrt{573}e^{12}, \frac{13}{1837}\sqrt{1043}e^{13}, \frac{13}{1837}\sqrt{890}e^{14},$ $\frac{13}{1837}\sqrt{541}e^{16} + \frac{13}{1837}\sqrt{769}e^{35}$	$(\frac{130}{1837}, -\frac{39}{1837}, -\frac{39}{1837}, -\frac{338}{1837}, \frac{260}{1837}, \frac{91}{1837}, \frac{91}{1837}, -\frac{208}{1837}, \frac{221}{1837})$ $+\frac{13}{1837}\sqrt{865}e^1 \otimes e_2 + \frac{52}{1837}\sqrt{95}e^3 \otimes e_8 - \frac{65}{1837}\sqrt{43}e^5 \otimes e_7$	{1345, 178, 2379, 24589}
941:48	$0, 0, 0, 0, 0, \frac{4}{1261}\sqrt{8205}e^{12}, \frac{1}{1261}\sqrt{18598}e^{13}, \frac{1}{1261}\sqrt{513086}e^{14},$ $\frac{1}{1261}\sqrt{47042}e^{16} + \frac{4}{1261}\sqrt{18051}e^{35}$	$(\frac{298}{1261}, -\frac{249}{1261}, -\frac{155}{1261}, -\frac{343}{1261}, \frac{502}{1261}, \frac{49}{1261}, \frac{11}{97}, -\frac{45}{1261}, \frac{347}{1261})$ $+\frac{16}{1261}\sqrt{2735}e^5 \otimes e_8 + \frac{3}{1261}\sqrt{60170}e^1 \otimes e_2$	{1345, 178, 234789, 259}
941:48	$0, 0, 0, 0, 0, \frac{156}{5893}\sqrt{58}e^{12}, \frac{234}{5893}\sqrt{38}e^{13}, \frac{39}{5893}\sqrt{3178}e^{14},$ $\frac{39}{5893}\sqrt{310}e^{16} + \frac{39}{5893}\sqrt{3090}e^{35}$	$(-\frac{1014}{5893}, \frac{1833}{5893}, -\frac{351}{5893}, \frac{1326}{5893}, \frac{156}{5893}, \frac{819}{5893}, -\frac{1365}{5893}, \frac{312}{5893}, -\frac{195}{5893})$ $+\frac{39}{5893}\sqrt{2382}e^5 \otimes e_7 + \frac{39}{5893}\sqrt{3574}e^2 \otimes e_8 + \frac{39}{5893}\sqrt{4810}e^4 \otimes e_9$	{3458, 478}
941:48	$0, 0, 0, 0, 0, \frac{78}{4573}\sqrt{502}e^{12}, \frac{156}{4573}\sqrt{82}e^{13}, \frac{39}{4573}\sqrt{466}e^{14},$ $\frac{39}{4573}\sqrt{1178}e^{16} + \frac{117}{4573}\sqrt{22}e^{35}$	$(\frac{273}{4573}, \frac{546}{4573}, -\frac{351}{4573}, -\frac{1248}{4573}, \frac{1443}{4573}, \frac{819}{4573}, -\frac{78}{4573}, -\frac{975}{4573}, \frac{1092}{4573})$ $+\frac{39}{4573}\sqrt{3770}e^1 \otimes e_4 + \frac{78}{4573}\sqrt{569}e^5 \otimes e_7 + \frac{78}{4573}\sqrt{573}e^2 \otimes e_8$	{234679, 24569}
941:48	$0, 0, 0, 0, 0, \frac{26}{269}\sqrt{3}e^{12}, \frac{13}{269}\sqrt{14}e^{13}, \frac{26}{269}\sqrt{29}e^{14},$ $\frac{39}{269}\sqrt{6}e^{16} + \frac{52}{269}\sqrt{7}e^{35}$	$(-\frac{39}{269}, \frac{39}{269}, \frac{65}{269}, \frac{130}{269}, -\frac{104}{269}, 0, \frac{26}{269}, \frac{91}{269}, -\frac{39}{269})$ $+\frac{117}{269}\sqrt{2}e^3 \otimes e_5 + \frac{13}{269}\sqrt{310}e^4 \otimes e_9$	{13789, 1589, 369, 5679}
941:48	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{8490}e^{12}, \frac{1}{223}\sqrt{51506}e^{13}, \frac{2}{223}\sqrt{1415}e^{14},$ $\frac{2}{223}\sqrt{1415}e^{16} + \frac{1}{223}\sqrt{8490}e^{35}$	$(-\frac{20}{223}, \frac{51}{223}, \frac{147}{223}, \frac{46}{223}, -\frac{136}{223}, \frac{31}{223}, \frac{127}{223}, \frac{26}{223}, \frac{11}{223})$ $+\frac{1}{223}\sqrt{105842}e^3 \otimes e_5$	{13, 1348, 14578, 157, 3467, 3678, 456, 568}
941:48	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{177}e^{12}, \frac{2}{149}\sqrt{2183}e^{13}, \frac{4}{149}\sqrt{767}e^{14},$ $\frac{6}{149}\sqrt{177}e^{16} + \frac{2}{149}\sqrt{3127}e^{35}$	$(-\frac{21}{149}, \frac{21}{149}, \frac{8}{149}, \frac{97}{149}, -\frac{29}{149}, 0, -\frac{13}{149}, \frac{76}{149}, -\frac{21}{149})$ $+\frac{10}{149}\sqrt{295}e^4 \otimes e_9$	{123789, 12589, 134567, 146, 2369, 25679, 3458, 478}
941:48	$0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{148562}e^{12}, \frac{4}{1157}\sqrt{54137}e^{13}, \frac{5}{1157}\sqrt{2518}e^{14},$ $\frac{4}{1157}\sqrt{26439}e^{16} + \frac{1}{1157}\sqrt{823386}e^{35}$	$(\frac{50}{1157}, \frac{251}{1157}, -\frac{479}{1157}, \frac{167}{1157}, \frac{830}{1157}, \frac{301}{1157}, -\frac{33}{89}, \frac{217}{1157}, \frac{27}{89})$ $+\frac{1}{1157}\sqrt{2429870}e^5 \otimes e_7$	{1345, 1358, 147, 178, 234789, 2379, 24589, 259}
941:48	$0, 0, 0, 0, 0, \frac{26}{549}\sqrt{62}e^{12}, \frac{26}{549}\sqrt{33}e^{13}, \frac{26}{183}\sqrt{10}e^{14},$ $\frac{52}{549}\sqrt{14}e^{16} + \frac{26}{549}\sqrt{109}e^{35}$	$(-\frac{65}{549}, \frac{247}{549}, -\frac{26}{183}, -\frac{26}{549}, \frac{65}{549}, \frac{182}{549}, -\frac{143}{549}, -\frac{91}{549}, \frac{13}{61})$ $+\frac{104}{549}\sqrt{15}e^5 \otimes e_7 + \frac{182}{549}\sqrt{5}e^2 \otimes e_8$	{12345, 1247, 34789, 4589}
941:48	$0, 0, 0, 0, 0, \frac{9}{1273}\sqrt{42}e^{12}, \frac{36}{1273}\sqrt{301}e^{13}, \frac{36}{1273}\sqrt{203}e^{14},$ $\frac{9}{1273}\sqrt{3178}e^{16} + \frac{9}{1273}\sqrt{3262}e^{35}$	$(-\frac{224}{1273}, \frac{582}{1273}, \frac{239}{1273}, -\frac{104}{1273}, -\frac{105}{1273}, \frac{358}{1273}, \frac{15}{1273}, -\frac{328}{1273}, \frac{2}{19})$ $+\frac{36}{1273}\sqrt{602}e^3 \otimes e_8 + \frac{9}{1273}\sqrt{6398}e^2 \otimes e_7$	{12345, 156789, 2468, 379}
941:48	$0, 0, 0, 0, 0, \frac{8}{149}\sqrt{21}e^{12}, \frac{2}{149}\sqrt{627}e^{13}, \frac{12}{149}\sqrt{15}e^{14},$ $\frac{2}{149}\sqrt{579}e^{16} + \frac{54}{149}e^{35}$	$(-\frac{31}{745}, \frac{33}{149}, -\frac{8}{745}, -\frac{127}{745}, \frac{111}{745}, \frac{134}{745}, -\frac{39}{745}, -\frac{158}{745}, \frac{103}{745})$ $+\frac{2}{149}\sqrt{1173}e^3 \otimes e_8 + \frac{2}{149}\sqrt{903}e^5 \otimes e_7$	{1345, 178, 2379, 24589}
941:48	$0, 0, 0, 0, 0, \frac{124}{2039}\sqrt{13}e^{12}, \frac{31}{6117}\sqrt{1918}e^{13}, \frac{62}{6117}\sqrt{1106}e^{14},$ $\frac{62}{6117}\sqrt{271}e^{16} + \frac{31}{6117}\sqrt{1226}e^{35}$	$(\frac{155}{2039}, -\frac{496}{6117}, -\frac{403}{2039}, \frac{217}{6117}, \frac{1643}{6117}, -\frac{31}{6117}, -\frac{248}{2039}, \frac{682}{6117}, \frac{434}{6117})$ $+\frac{31}{6117}\sqrt{3590}e^1 \otimes e_2 + \frac{31}{6117}\sqrt{3786}e^5 \otimes e_8 + \frac{62}{6117}\sqrt{1033}e^4 \otimes e_7$	{1345, 178}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:48	$0, 0, 0, 0, 0, \frac{1}{319}\sqrt{29715}e^{12}, \frac{1}{319}\sqrt{5943}e^{13}, \frac{1}{319}\sqrt{4811}e^{14},$ $\frac{7}{638}\sqrt{1698}e^{16} + \frac{9}{638}\sqrt{283}e^{35}$	$(\frac{3}{44}, \frac{3}{22}, \frac{3}{29}, -\frac{479}{1276}, \frac{54}{319}, \frac{9}{44}, \frac{219}{1276}, -\frac{98}{319}, \frac{3}{11})$ $+ \frac{1}{638}\sqrt{193006}e^1 \otimes e_4 + \frac{3}{638}\sqrt{14433}e^2 \otimes e_8$	{12359, 1279, 2345679, 2469}
941:48	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{3507}e^{12}, \frac{5}{353}\sqrt{1670}e^{13}, \frac{1}{353}\sqrt{10354}e^{14},$ $\frac{2}{353}\sqrt{10354}e^{16} + \frac{2}{353}\sqrt{3507}e^{35}$	$(\frac{62}{353}, -\frac{105}{353}, \frac{93}{353}, -\frac{1}{353}, -\frac{74}{353}, -\frac{43}{353}, \frac{155}{353}, \frac{61}{353}, \frac{19}{353})$ $+ \frac{1}{353}\sqrt{59118}e^1 \otimes e_2 + \frac{2}{353}\sqrt{12191}e^3 \otimes e_5$	{23478, 237, 2458, 25}
941:48	$0, 0, 0, 0, 0, \frac{18}{3461}\sqrt{3178}e^{12}, \frac{18}{3461}\sqrt{5691}e^{13}, \frac{36}{3461}\sqrt{2065}e^{14},$ $\frac{252}{3461}\sqrt{10}e^{16} + \frac{18}{3461}\sqrt{6090}e^{35}$	$(-\frac{756}{3461}, \frac{1275}{3461}, \frac{288}{3461}, \frac{897}{3461}, -\frac{525}{3461}, \frac{519}{3461}, -\frac{468}{3461}, \frac{141}{3461}, -\frac{237}{3461})$ $+ \frac{36}{3461}\sqrt{2422}e^2 \otimes e_8 + \frac{36}{3461}\sqrt{3031}e^4 \otimes e_9$	{2369, 25679, 3458, 478}
941:48	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{70}e^{12}, \frac{10}{33}e^{13}, \frac{1}{33}\sqrt{130}e^{14},$ $\frac{1}{11}\sqrt{10}e^{16} + \frac{2}{33}\sqrt{15}e^{35}$	$(-\frac{5}{33}, \frac{3}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{4}{33}, \frac{4}{33}, -\frac{2}{33}, -\frac{2}{33}, -\frac{1}{33})$ $+ \frac{1}{33}\sqrt{170}e^3 \otimes e_8 + \frac{2}{33}\sqrt{35}e^4 \otimes e_7$	{123469, 1256789, 1345, 178, 2379, 24589, 3567, 468}
941:48	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{70}e^{12}, \frac{10}{33}e^{13}, \frac{1}{33}\sqrt{130}e^{14},$ $\frac{1}{11}\sqrt{10}e^{16} + \frac{2}{33}\sqrt{15}e^{35}$	$(-\frac{5}{33}, \frac{3}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{4}{33}, \frac{4}{33}, -\frac{2}{33}, -\frac{2}{33}, -\frac{1}{33})$ $+ \frac{1}{33}\sqrt{170}e^3 \otimes e_8 - \frac{2}{33}\sqrt{35}e^4 \otimes e_7$	{123469, 1256789, 1345, 178, 2379, 24589, 3567, 468}
941:48	$0, 0, 0, 0, 0, \frac{8}{445}\sqrt{273}e^{12}, \frac{56}{445}\sqrt{15}e^{13}, \frac{8}{445}\sqrt{182}e^{14},$ $\frac{8}{445}\sqrt{182}e^{16} + \frac{8}{445}\sqrt{273}e^{35}$	$(\frac{52}{445}, \frac{12}{445}, \frac{104}{445}, -\frac{172}{445}, \frac{12}{445}, \frac{64}{445}, \frac{156}{445}, \frac{24}{445}, \frac{116}{445})$ $+ \frac{8}{445}\sqrt{1379}e^1 \otimes e_4 + \frac{8}{445}\sqrt{1379}e^3 \otimes e_8$	{125789, 1678, 245689, 48}
941:48	$0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{1}{1123}\sqrt{877062}e^{13}, \frac{6}{1123}\sqrt{24171}e^{14},$ $\frac{1}{1123}\sqrt{448890}e^{16} + \frac{1}{1123}\sqrt{3453}e^{35}$	$(-\frac{199}{1123}, \frac{365}{1123}, -\frac{207}{1123}, \frac{745}{1123}, \frac{174}{1123}, \frac{166}{1123}, -\frac{406}{1123}, \frac{546}{1123}, -\frac{33}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_7$	{1234569, 126789, 134, 1578, 23579, 2489, 367, 4568}
941:48	$0, 0, 0, 0, 0, \frac{9}{1273}\sqrt{3262}e^{12}, \frac{36}{1273}\sqrt{301}e^{13}, \frac{9}{1273}\sqrt{3178}e^{14},$ $\frac{36}{1273}\sqrt{203}e^{16} + \frac{9}{1273}\sqrt{42}e^{35}$	$(\frac{234}{1273}, -\frac{105}{1273}, -\frac{219}{1273}, -\frac{333}{1273}, \frac{582}{1273}, \frac{129}{1273}, \frac{15}{1273}, -\frac{99}{1273}, \frac{363}{1273})$ $+ \frac{36}{1273}\sqrt{602}e^1 \otimes e_4 + \frac{9}{1273}\sqrt{6398}e^5 \otimes e_7$	{1356, 167, 234679, 24569}
941:48	$0, 0, 0, 0, 0, \frac{9}{662}\sqrt{934}e^{12}, \frac{1}{662}\sqrt{55106}e^{13}, \frac{1}{662}\sqrt{90598}e^{14},$ $\frac{4}{331}\sqrt{467}e^{16} + \frac{1}{662}\sqrt{15411}e^{35}$	$(-\frac{257}{1324}, \frac{159}{331}, \frac{132}{331}, -\frac{41}{1324}, -\frac{203}{662}, \frac{379}{1324}, \frac{271}{1324}, \frac{149}{662}, \frac{61}{662})$ $+ \frac{1}{662}\sqrt{245642}e^3 \otimes e_5 + \frac{1}{662}\sqrt{301215}e^2 \otimes e_8$	{13689, 156789, 34789, 4589}
941:48	$0, 0, 0, 0, 0, \frac{54}{149}e^{12}, \frac{2}{149}\sqrt{627}e^{13}, \frac{2}{149}\sqrt{579}e^{14},$ $\frac{12}{149}\sqrt{15}e^{16} + \frac{2}{149}\sqrt{21}e^{35}$	$(\frac{1}{149}, \frac{111}{745}, -\frac{44}{745}, -\frac{29}{149}, \frac{33}{149}, \frac{116}{745}, -\frac{39}{745}, -\frac{28}{149}, \frac{121}{745})$ $+ \frac{2}{149}\sqrt{1173}e^1 \otimes e_4 + \frac{2}{149}\sqrt{903}e^2 \otimes e_7$	{12359, 1567, 2469, 347}
941:48	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{390}e^{12}, \frac{1}{85}\sqrt{95}e^{13}, \frac{1}{17}\sqrt{10}e^{14},$ $\frac{1}{85}\sqrt{115}e^{16} + \frac{1}{85}\sqrt{290}e^{35}$	$(-\frac{8}{85}, \frac{3}{17}, \frac{1}{85}, \frac{4}{85}, -\frac{2}{85}, \frac{7}{85}, -\frac{7}{85}, -\frac{4}{85}, -\frac{1}{85})$ $+ \frac{1}{170}\sqrt{1370}e^3 \otimes e_8 + \frac{1}{170}\sqrt{870}e^5 \otimes e_7 + \frac{1}{34}\sqrt{38}e^4 \otimes e_9$	{1345, 2379}
941:48	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{2}{283}\sqrt{935}e^{13}, \frac{4}{283}\sqrt{935}e^{14},$ $\frac{2}{283}\sqrt{2805}e^{16} + \frac{2}{283}\sqrt{187}e^{35}$	$(-\frac{63}{283}, \frac{99}{283}, -\frac{8}{283}, \frac{143}{283}, -\frac{19}{283}, \frac{36}{283}, -\frac{71}{283}, \frac{80}{283}, -\frac{27}{283})$ $+ \frac{2}{283}\sqrt{12835}e^4 \otimes e_9 + \frac{8}{283}\sqrt{510}e^2 \otimes e_7$	{12589, 134567, 2369, 478}
941:48	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502}e^{12}, \frac{2}{297}\sqrt{8007}e^{13}, \frac{2}{99}\sqrt{1570}e^{14},$ $\frac{4}{297}\sqrt{314}e^{16} + \frac{2}{297}\sqrt{5809}e^{35}$	$(-\frac{65}{297}, \frac{211}{297}, \frac{2}{99}, -\frac{38}{297}, \frac{5}{99}, \frac{146}{297}, \frac{1}{297}, -\frac{103}{297}, \frac{3}{11})$ $+ \frac{14}{297}\sqrt{785}e^2 \otimes e_8$	{123457, 124, 136789, 15689, 2356, 267, 3489, 45789}
941:49	$0, 0, 0, 0, 0, \frac{3}{8}\sqrt{5}e^{12}, \frac{3}{16}\sqrt{2}e^{13}, \frac{3}{16}\sqrt{5}e^{14},$ $\frac{3}{8}\sqrt{2}e^{26} + \frac{3}{16}\sqrt{2}e^{35}$	$(-\frac{1}{4}, \frac{9}{32}, \frac{7}{16}, -\frac{1}{32}, -\frac{1}{8}, \frac{3}{16}, \frac{3}{16}, -\frac{9}{32}, \frac{5}{16})$ $+ \frac{3}{16}\sqrt{10}e^3 \otimes e_5 + \frac{9}{16}\sqrt{2}e^2 \otimes e_8$	{2367, 256, 3478, 458}
941:49	$0, 0, 0, 0, 0, \frac{2}{1345}\sqrt{7917}e^{12}, \frac{156}{1345}\sqrt{29}e^{13}, \frac{1}{1345}\sqrt{1259934}e^{14},$ $\frac{1}{1345}\sqrt{296322}e^{26} + \frac{2}{1345}\sqrt{337038}e^{35}$	$(-\frac{28}{1345}, \frac{348}{1345}, -\frac{81}{1345}, -\frac{354}{1345}, \frac{749}{1345}, \frac{64}{269}, -\frac{109}{1345}, -\frac{382}{1345}, \frac{668}{1345})$ $+ \frac{2}{1345}\sqrt{645801}e^5 \otimes e_8$	{1236789, 124569, 13789, 1459, 235, 2478, 356, 4678}
941:49	$0, 0, 0, 0, 0, \frac{2}{877}\sqrt{19646}e^{12}, \frac{8}{877}\sqrt{4389}e^{13}, \frac{2}{877}\sqrt{24662}e^{14},$ $\frac{2}{877}\sqrt{12749}e^{26} + \frac{2}{877}\sqrt{22363}e^{35}$	$(\frac{188}{877}, -\frac{79}{877}, \frac{224}{877}, -\frac{230}{877}, -\frac{194}{877}, \frac{109}{877}, \frac{412}{877}, -\frac{42}{877}, \frac{30}{877})$ $+ \frac{2}{877}\sqrt{78793}e^3 \otimes e_5 + \frac{4}{877}\sqrt{22154}e^1 \otimes e_4$	{23467, 2456, 347, 45}
941:49	$0, 0, 0, 0, 0, \frac{2}{4229}\sqrt{145745}e^{12}, \frac{2}{4229}\sqrt{209703}e^{13}, \frac{6}{4229}\sqrt{46695}e^{14},$ $\frac{40}{4229}\sqrt{849}e^{26} + \frac{2}{4229}\sqrt{178007}e^{35}$	$(-\frac{853}{4229}, \frac{574}{4229}, \frac{518}{4229}, \frac{861}{4229}, -\frac{223}{4229}, -\frac{279}{4229}, -\frac{335}{4229}, \frac{8}{4229}, \frac{295}{4229})$ $+ \frac{2}{4229}\sqrt{532889}e^2 \otimes e_8 + \frac{4}{4229}\sqrt{137255}e^4 \otimes e_9$	{136789, 15689, 3458, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:49	$0, 0, 0, 0, 0, \frac{28}{3111}\sqrt{327e^{12}}, \frac{28}{3111}\sqrt{437e^{13}}, \frac{28}{3111}\sqrt{998e^{14}},$ $\frac{28}{3111}\sqrt{795e^{26}} + \frac{28}{3111}\sqrt{499e^{35}}$	$(-\frac{602}{3111}, \frac{140}{1037}, \frac{224}{3111}, \frac{210}{1037}, \frac{14}{3111}, -\frac{182}{3111}, -\frac{126}{1037}, \frac{28}{3111}, \frac{14}{183})$ $+ \frac{28}{3111}\sqrt{1342e^4} \otimes e_9 - \frac{28}{3111}\sqrt{227e^5} \otimes e_7 + \frac{56}{3111}\sqrt{314e^2} \otimes e_8$	{136789, 15689, 3458, 478}
941:49	$0, 0, 0, 0, 0, \frac{28}{3111}\sqrt{327e^{12}}, \frac{28}{3111}\sqrt{437e^{13}}, \frac{28}{3111}\sqrt{998e^{14}},$ $\frac{28}{3111}\sqrt{795e^{26}} + \frac{28}{3111}\sqrt{499e^{35}}$	$(-\frac{602}{3111}, \frac{140}{1037}, \frac{224}{3111}, \frac{210}{1037}, \frac{14}{3111}, -\frac{182}{3111}, -\frac{126}{1037}, \frac{28}{3111}, \frac{14}{183})$ $+ \frac{28}{3111}\sqrt{1342e^4} \otimes e_9 + \frac{28}{3111}\sqrt{227e^5} \otimes e_7 + \frac{56}{3111}\sqrt{314e^2} \otimes e_8$	{136789, 15689, 3458, 478}
941:49	$0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{162393e^{12}}, \frac{6}{2245}\sqrt{2109e^{13}}, \frac{4}{2245}\sqrt{72409e^{14}},$ $\frac{18}{2245}\sqrt{703e^{26}} + \frac{4}{2245}\sqrt{90687e^{35}}$	$(\frac{462}{2245}, \frac{123}{2245}, -\frac{216}{2245}, -\frac{944}{2245}, \frac{924}{2245}, \frac{117}{2245}, \frac{246}{2245}, -\frac{482}{2245}, \frac{708}{2245})$ $+ \frac{2}{2245}\sqrt{565915e^1} \otimes e_4 + \frac{2}{2245}\sqrt{820401e^5} \otimes e_8$	{128, 168, 234689, 3489}
941:49	$0, 0, 0, 0, 0, \frac{2}{1723}\sqrt{57365e^{12}}, \frac{4}{1723}\sqrt{745e^{13}}, \frac{1}{1723}\sqrt{928270e^{14}},$ $\frac{5}{1723}\sqrt{3874e^{26}} + \frac{2}{1723}\sqrt{135590e^{35}}$	$(-\frac{308}{1723}, \frac{388}{1723}, -\frac{203}{1723}, \frac{234}{1723}, \frac{671}{1723}, \frac{80}{1723}, -\frac{511}{1723}, -\frac{74}{1723}, \frac{468}{1723})$ $+ \frac{2}{1723}\sqrt{322585e^5} \otimes e_8 + \frac{4}{1723}\sqrt{64070e^4} \otimes e_7$	{2357, 248, 3567, 468}
941:49	$0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{34773e^{12}}, \frac{8}{1335}\sqrt{6834e^{13}}, \frac{134}{445}e^{14},$ $\frac{2}{1335}\sqrt{75777e^{26}} + \frac{2}{1335}\sqrt{54069e^{35}}$	$(-\frac{134}{445}, \frac{104}{445}, \frac{104}{445}, \frac{21}{89}, -\frac{6}{89}, -\frac{6}{89}, -\frac{6}{89}, -\frac{29}{445}, \frac{74}{445})$ $+ \frac{2}{1335}\sqrt{95073e^3} \otimes e_5 + \frac{4}{1335}\sqrt{37587e^2} \otimes e_7$	{2456, 2568, 347, 378}
941:49	$0, 0, 0, 0, 0, \frac{24}{2305}\sqrt{866e^{12}}, \frac{2}{2305}\sqrt{106951e^{13}}, \frac{2}{2305}\sqrt{100889e^{14}},$ $\frac{2}{2305}\sqrt{320853e^{26}} + \frac{2}{2305}\sqrt{35506e^{35}}$	$(-\frac{99}{461}, \frac{63}{461}, -\frac{56}{2305}, \frac{1001}{2305}, \frac{191}{2305}, -\frac{36}{461}, -\frac{551}{2305}, \frac{506}{2305}, \frac{27}{461})$ $+ \frac{62}{2305}\sqrt{433e^4} \otimes e_9 + \frac{6}{2305}\sqrt{51527e^2} \otimes e_7$	{12389, 156789, 2468, 34578}
941:49	$0, 0, 0, 0, 0, \frac{8}{4211}\sqrt{8787e^{12}}, \frac{4}{4211}\sqrt{11615e^{13}}, \frac{4}{4211}\sqrt{157358e^{14}},$ $\frac{12}{4211}\sqrt{4141e^{26}} + \frac{4}{4211}\sqrt{133219e^{35}}$	$(-\frac{696}{4211}, \frac{378}{4211}, \frac{980}{4211}, \frac{868}{4211}, -\frac{920}{4211}, -\frac{318}{4211}, \frac{284}{4211}, \frac{172}{4211}, \frac{60}{4211})$ $+ \frac{4}{4211}\sqrt{180285e^3} \otimes e_8 + \frac{4}{4211}\sqrt{204727e^4} \otimes e_9$	{1234567, 13457, 239, 369}
941:49	$0, 0, 0, 0, 0, \frac{12}{331}\sqrt{115e^{12}}, \frac{12}{331}\sqrt{782e^{13}}, \frac{12}{331}\sqrt{115e^{14}},$ $\frac{6}{331}\sqrt{713e^{26}} + \frac{6}{331}\sqrt{851e^{35}}$	$(-\frac{40}{331}, \frac{45}{331}, \frac{232}{331}, \frac{76}{331}, -\frac{182}{331}, \frac{5}{331}, \frac{192}{331}, \frac{36}{331}, \frac{50}{331})$ $+ \frac{30}{331}\sqrt{253e^3} \otimes e_5$	{123468, 1236, 1245678, 12567, 13, 1348, 14578, 157}
941:49	$0, 0, 0, 0, 0, \frac{342}{1117}e^{12}, \frac{57}{1117}\sqrt{58e^{13}}, \frac{45}{1117}\sqrt{114e^{14}},$ $\frac{12}{1117}\sqrt{38e^{26}} + \frac{12}{1117}\sqrt{589e^{35}}$	$(-\frac{342}{1117}, \frac{279}{1117}, \frac{240}{1117}, \frac{240}{1117}, -\frac{24}{1117}, -\frac{63}{1117}, -\frac{102}{1117}, \frac{102}{1117}, \frac{216}{1117})$ $+ \frac{3}{1117}\sqrt{36290e^4} \otimes e_7 + \frac{3}{1117}\sqrt{41002e^3} \otimes e_8$	{123469, 1256789, 1349, 15789, 2357, 248, 3567, 468}
941:49	$0, 0, 0, 0, 0, \frac{342}{1117}e^{12}, \frac{57}{1117}\sqrt{58e^{13}}, \frac{45}{1117}\sqrt{114e^{14}},$ $\frac{12}{1117}\sqrt{38e^{26}} + \frac{12}{1117}\sqrt{589e^{35}}$	$(-\frac{342}{1117}, \frac{279}{1117}, \frac{240}{1117}, \frac{240}{1117}, -\frac{24}{1117}, -\frac{63}{1117}, -\frac{102}{1117}, -\frac{102}{1117}, \frac{216}{1117})$ $- \frac{3}{1117}\sqrt{36290e^4} \otimes e_7 + \frac{3}{1117}\sqrt{41002e^3} \otimes e_8$	{123469, 1256789, 1349, 15789, 2357, 248, 3567, 468}
941:49	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{562e^{12}}, \frac{14}{1741}\sqrt{426e^{13}}, \frac{7}{1741}\sqrt{2342e^{14}},$ $\frac{14}{1741}\sqrt{97e^{26}} + \frac{14}{1741}\sqrt{571e^{35}}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{28}{1741}, \frac{154}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{14}{1741}\sqrt{542e^4} \otimes e_9 + \frac{21}{1741}\sqrt{142e^2} \otimes e_7 + \frac{7}{1741}\sqrt{2362e^5} \otimes e_8$	{1236789, 2478}
941:49	$0, 0, 0, 0, 0, \frac{2}{877}\sqrt{24662e^{12}}, \frac{8}{877}\sqrt{4389e^{13}}, \frac{2}{877}\sqrt{19646e^{14}},$ $\frac{2}{877}\sqrt{12749e^{26}} + \frac{2}{877}\sqrt{22363e^{35}}$	$(-\frac{236}{877}, \frac{133}{877}, \frac{224}{877}, \frac{406}{877}, -\frac{194}{877}, \frac{103}{877}, -\frac{12}{877}, \frac{170}{877}, \frac{30}{877})$ $+ \frac{2}{877}\sqrt{78793e^3} \otimes e_5 + \frac{4}{877}\sqrt{22154e^4} \otimes e_7$	{12346, 125678, 134, 1578}
941:49	$0, 0, 0, 0, 0, \frac{5}{1361}\sqrt{43770e^{12}}, \frac{2}{1361}\sqrt{310767e^{13}}, \frac{2}{1361}\sqrt{138605e^{14}},$ $\frac{1}{1361}\sqrt{323898e^{26}} + \frac{2}{1361}\sqrt{74409e^{35}}$	$(\frac{750}{1361}, -\frac{255}{1361}, -\frac{93}{1361}, -\frac{709}{1361}, \frac{333}{1361}, \frac{495}{1361}, \frac{657}{1361}, \frac{41}{1361}, \frac{240}{1361})$ $+ \frac{2}{1361}\sqrt{824335e^1} \otimes e_4$	{12359, 1279, 13569, 1679, 23467, 2456, 347, 45}
941:49	$0, 0, 0, 0, 0, \frac{7}{1137}\sqrt{42e^{12}}, \frac{14}{1137}\sqrt{62e^{13}}, \frac{14}{379}\sqrt{34e^{14}},$ $\frac{14}{1137}\sqrt{46e^{26}} + \frac{98}{1137}\sqrt{7e^{35}}$	$(-\frac{63}{379}, \frac{133}{1137}, \frac{28}{379}, \frac{175}{1137}, -\frac{7}{1137}, -\frac{56}{1137}, -\frac{35}{379}, -\frac{14}{1137}, \frac{77}{1137})$ $- \frac{7}{1137}\sqrt{1006e^5} \otimes e_7 + \frac{7}{1137}\sqrt{1586e^4} \otimes e_9 + \frac{7}{1137}\sqrt{1618e^3} \otimes e_8$	{123456, 1345, 2379, 3679}
941:49	$0, 0, 0, 0, 0, \frac{7}{1137}\sqrt{42e^{12}}, \frac{14}{1137}\sqrt{62e^{13}}, \frac{14}{379}\sqrt{34e^{14}},$ $\frac{14}{1137}\sqrt{46e^{26}} + \frac{98}{1137}\sqrt{7e^{35}}$	$(-\frac{63}{379}, \frac{133}{1137}, \frac{28}{379}, \frac{175}{1137}, -\frac{7}{1137}, -\frac{56}{1137}, -\frac{35}{379}, -\frac{14}{1137}, \frac{77}{1137})$ $+ \frac{7}{1137}\sqrt{1006e^5} \otimes e_7 + \frac{7}{1137}\sqrt{1586e^4} \otimes e_9 + \frac{7}{1137}\sqrt{1618e^3} \otimes e_8$	{123456, 1345, 2379, 3679}
941:49	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{165e^{12}}, \frac{2}{53}\sqrt{33e^{13}}, \frac{2}{53}\sqrt{55e^{14}},$ $\frac{4}{53}\sqrt{33e^{26}} + \frac{2}{53}\sqrt{33e^{35}}$	$(\frac{3}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{19}{53}, \frac{9}{53}, \frac{9}{53}, \frac{9}{53}, -\frac{16}{53}, \frac{15}{53})$ $+ \frac{4}{53}\sqrt{55e^1} \otimes e_4 + \frac{6}{53}\sqrt{33e^2} \otimes e_8$	{135689, 16789, 3478, 458}
941:49	$0, 0, 0, 0, 0, \frac{16}{1239}\sqrt{523e^{12}}, \frac{4}{1239}\sqrt{2615e^{13}}, \frac{2}{1239}\sqrt{9937e^{14}},$ $\frac{1}{1239}\sqrt{275098e^{26}} + \frac{1}{1239}\sqrt{7322e^{35}}$	$(-\frac{127}{413}, \frac{391}{1239}, \frac{83}{413}, \frac{107}{1239}, \frac{152}{1239}, \frac{10}{1239}, -\frac{44}{413}, -\frac{274}{1239}, \frac{401}{1239})$ $+ \frac{1}{1239}\sqrt{478022e^3} \otimes e_8 + \frac{1}{177}\sqrt{13598e^2} \otimes e_7$	{123459, 16789, 24568, 37}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:49	$0, 0, 0, 0, 0, \frac{2}{1369}\sqrt{165615e^{12}}, \frac{12}{1369}\sqrt{6405e^{13}}, \frac{1}{1369}\sqrt{404430e^{14}}, \frac{1}{1369}\sqrt{1008330e^{26}} + \frac{2}{1369}\sqrt{129930e^{35}}$	$(-\frac{442}{1369}, \frac{456}{1369}, -\frac{17}{1369}, \frac{424}{1369}, \frac{487}{1369}, \frac{14}{1369}, -\frac{459}{1369}, -\frac{18}{1369}, \frac{470}{1369}) + \frac{2}{1369}\sqrt{533445e^2} \otimes e_7$	{1234589, 12359, 146789, 1679, 2456, 2568, 347, 378}
941:49	$0, 0, 0, 0, 0, \frac{4}{4529}\sqrt{7783e^{12}}, \frac{2}{4529}\sqrt{192765e^{13}}, \frac{62}{4529}\sqrt{362e^{14}}, \frac{4}{4529}\sqrt{10679e^{26}} + \frac{2}{4529}\sqrt{323266e^{35}}$	$(-\frac{344}{4529}, \frac{277}{4529}, -\frac{380}{4529}, \frac{572}{4529}, \frac{590}{4529}, -\frac{67}{4529}, -\frac{724}{4529}, \frac{228}{4529}, \frac{30}{647}) + \frac{2}{4529}\sqrt{368335e^5} \otimes e_8 + \frac{2}{4529}\sqrt{389693e^4} \otimes e_9$	{1234567, 13457, 2579, 5679}
941:49	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{55e^{12}}, \frac{2}{53}\sqrt{33e^{13}}, \frac{2}{53}\sqrt{165e^{14}}, \frac{4}{53}\sqrt{33e^{26}} + \frac{2}{53}\sqrt{33e^{35}}$	$(-\frac{17}{53}, \frac{16}{53}, \frac{6}{53}, \frac{11}{53}, \frac{9}{53}, -\frac{1}{53}, -\frac{11}{53}, -\frac{6}{53}, \frac{15}{53}) + \frac{4}{53}\sqrt{55e^4} \otimes e_7 + \frac{6}{53}\sqrt{33e^2} \otimes e_8$	{123459, 16789, 2367, 458}
941:49	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{1606e^{12}}, \frac{14}{1741}\sqrt{658e^{13}}, \frac{7}{1741}\sqrt{1994e^{14}}, \frac{14}{1741}\sqrt{445e^{26}} + \frac{42}{1741}\sqrt{57e^{35}}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{28}{1741}, \frac{154}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741}) + \frac{14}{1741}\sqrt{542e^1} \otimes e_4 + \frac{7}{1741}\sqrt{1974e^5} \otimes e_8 + \frac{7}{1741}\sqrt{3058e^2} \otimes e_7$	{1679, 347}
941:49	$0, 0, 0, 0, 0, \frac{4}{3299}\sqrt{40755e^{12}}, \frac{4}{3299}\sqrt{166155e^{13}}, \frac{4}{3299}\sqrt{68134e^{14}}, \frac{4}{3299}\sqrt{1254e^{26}} + \frac{4}{3299}\sqrt{82137e^{35}}$	$(\frac{390}{3299}, \frac{186}{3299}, \frac{780}{3299}, -\frac{1282}{3299}, -\frac{18}{3299}, \frac{576}{3299}, \frac{1170}{3299}, -\frac{892}{3299}, \frac{762}{3299}) + \frac{12}{3299}\sqrt{36993e^3} \otimes e_8 + \frac{484}{3299}\sqrt{19e^1} \otimes e_4$	{1278, 1678, 245689, 4589}
941:49	$0, 0, 0, 0, 0, \frac{3}{623}\sqrt{7810e^{12}}, \frac{4}{623}\sqrt{3905e^{13}}, \frac{1}{623}\sqrt{23430e^{14}}, \frac{3}{623}\sqrt{23430e^{26}} + \frac{2}{623}\sqrt{3905e^{35}}$	$(-\frac{139}{623}, \frac{187}{623}, -\frac{29}{623}, \frac{48}{623}, \frac{264}{623}, \frac{48}{623}, -\frac{24}{623}, \frac{13}{623}, \frac{235}{623}) + \frac{1}{623}\sqrt{239270e^2} \otimes e_7 + \frac{5}{623}\sqrt{5822e^5} \otimes e_8$	{12389, 145679, 2468, 357}
941:49	$0, 0, 0, 0, 0, \frac{4}{2665}\sqrt{22710e^{12}}, \frac{4}{2665}\sqrt{7570e^{13}}, \frac{8}{2665}\sqrt{31037e^{14}}, \frac{4}{2665}\sqrt{40121e^{26}} + \frac{2}{2665}\sqrt{345949e^{35}}$	$(-\frac{48}{2665}, -\frac{21}{2665}, \frac{616}{2665}, \frac{1232}{2665}, -\frac{898}{2665}, \frac{261}{2665}, \frac{376}{2665}, \frac{992}{2665}, -\frac{282}{2665}) + \frac{2}{2665}\sqrt{588189e^3} \otimes e_5 + \frac{8}{2665}\sqrt{73429e^4} \otimes e_9$	{2379, 259, 3679, 569}
941:49	$0, 0, 0, 0, 0, \frac{14}{4493}\sqrt{8617e^{12}}, \frac{98}{4493}\sqrt{235e^{13}}, \frac{182}{4493}\sqrt{35e^{14}}, \frac{28}{4493}\sqrt{2065e^{26}} + \frac{84}{4493}\sqrt{161e^{35}}$	$(\frac{91}{4493}, \frac{301}{4493}, -\frac{476}{4493}, -\frac{595}{4493}, \frac{1169}{4493}, \frac{392}{4493}, -\frac{385}{4493}, -\frac{504}{4493}, \frac{693}{4493}) + \frac{14}{4493}\sqrt{12467e^1} \otimes e_4 + \frac{14}{4493}\sqrt{16597e^2} \otimes e_7$	{12359, 1679, 2456, 347}
941:49	$0, 0, 0, 0, 0, \frac{12}{71}\sqrt{15e^{12}}, \frac{18}{71}\sqrt{3e^{13}}, \frac{12}{71}\sqrt{15e^{14}}, \frac{36}{71}\sqrt{2e^{26}} + \frac{6}{71}\sqrt{3e^{35}}$	$(-\frac{19}{71}, \frac{27}{71}, \frac{22}{71}, -\frac{8}{71}, \frac{13}{71}, \frac{8}{71}, \frac{3}{71}, -\frac{27}{71}, \frac{35}{71}) + \frac{6}{71}\sqrt{177e^2} \otimes e_8$	{1234579, 1249, 1356789, 1689, 236, 2567, 348, 4578}
941:49	$0, 0, 0, 0, 0, \frac{3}{1409}\sqrt{6162e^{12}}, \frac{10}{1409}\sqrt{5135e^{13}}, \frac{2}{1409}\sqrt{288587e^{14}}, \frac{1}{1409}\sqrt{659334e^{26}} + \frac{2}{1409}\sqrt{229021e^{35}}$	$(-\frac{54}{1409}, -\frac{63}{1409}, \frac{35}{1409}, \frac{847}{1409}, -\frac{215}{1409}, -\frac{117}{1409}, -\frac{19}{1409}, \frac{793}{1409}, -\frac{180}{1409}) + \frac{2}{1409}\sqrt{604903e^4} \otimes e_9$	{1234567, 1246, 13457, 14, 239, 2579, 369, 5679}
941:49	$0, 0, 0, 0, 0, \frac{2}{1361}\sqrt{138605e^{12}}, \frac{2}{1361}\sqrt{310767e^{13}}, \frac{5}{1361}\sqrt{43770e^{14}}, \frac{1}{1361}\sqrt{323898e^{26}} + \frac{2}{1361}\sqrt{74409e^{35}}$	$(-\frac{380}{1361}, \frac{310}{1361}, -\frac{93}{1361}, \frac{986}{1361}, \frac{333}{1361}, -\frac{70}{1361}, -\frac{473}{1361}, \frac{606}{1361}, \frac{240}{1361}) + \frac{2}{1361}\sqrt{824335e^4} \otimes e_7$	{12346, 125678, 134, 1578, 23579, 2489, 35679, 4689}
941:49	$0, 0, 0, 0, 0, \frac{12}{1393}\sqrt{2486e^{12}}, \frac{4}{1393}\sqrt{36047e^{13}}, \frac{1}{1393}\sqrt{1081410e^{14}}, \frac{4}{1393}\sqrt{141702e^{26}} + \frac{2}{1393}\sqrt{252329e^{35}}$	$(-\frac{288}{1393}, \frac{436}{1393}, \frac{755}{1393}, -\frac{200}{1393}, \frac{171}{1393}, \frac{148}{1393}, \frac{467}{1393}, -\frac{488}{1393}, \frac{584}{1393}) + \frac{2}{1393}\sqrt{719697e^3} \otimes e_8$	{123469, 1256789, 1349, 15789, 2357, 248, 3567, 468}
941:50	$0, 0, 0, 0, 0, \frac{2}{1951}\sqrt{15686e^{12}}, \frac{2}{1951}\sqrt{117645e^{13}}, \frac{1}{1951}\sqrt{464442e^{24}}, \frac{12}{1951}\sqrt{1023e^{16}} + \frac{9}{1951}\sqrt{2046e^{35}}$	$(\frac{281}{1951}, -\frac{412}{1951}, -\frac{270}{1951}, \frac{352}{1951}, \frac{420}{1951}, -\frac{131}{1951}, \frac{11}{1951}, -\frac{60}{1951}, \frac{150}{1951}) + \frac{4}{1951}\sqrt{36487e^4} \otimes e_7 + \frac{6}{1951}\sqrt{17391e^1} \otimes e_8$	{12346, 179, 2378, 4689}
941:50	$0, 0, 0, 0, 0, \frac{2}{4601}\sqrt{98059e^{12}}, \frac{6}{4601}\sqrt{20247e^{13}}, \frac{8}{4601}\sqrt{40097e^{24}}, \frac{2}{4601}\sqrt{210410e^{16}} + \frac{2}{4601}\sqrt{599470e^{35}}$	$(\frac{592}{4601}, -\frac{953}{4601}, -\frac{635}{4601}, \frac{1025}{4601}, \frac{866}{4601}, -\frac{361}{4601}, -\frac{1}{4601}, \frac{72}{4601}, \frac{231}{4601}) + \frac{10}{4601}\sqrt{35333e^4} \otimes e_9 + \frac{28}{4601}\sqrt{3970e^5} \otimes e_8$	{1234567, 159, 2345, 5679}
941:50	$0, 0, 0, 0, 0, \frac{36}{3737}\sqrt{2283e^{12}}, \frac{6}{3737}\sqrt{26635e^{13}}, \frac{2}{3737}\sqrt{385066e^{24}}, \frac{6}{3737}\sqrt{67729e^{16}} + \frac{4}{3737}\sqrt{43377e^{35}}$	$(\frac{402}{3737}, \frac{201}{3737}, \frac{345}{3737}, -\frac{1321}{3737}, \frac{660}{3737}, \frac{603}{3737}, \frac{747}{3737}, -\frac{1120}{3737}, \frac{1005}{3737}) + \frac{14}{3737}\sqrt{31962e^1} \otimes e_8 + \frac{2}{3737}\sqrt{948967e^2} \otimes e_4$	{2356789, 2689, 3478, 458}
941:50	$0, 0, 0, 0, 0, \frac{2}{841}\sqrt{5809e^{12}}, \frac{2}{841}\sqrt{9577e^{13}}, \frac{4}{841}\sqrt{10519e^{24}}, \frac{2}{841}\sqrt{17270e^{16}} + \frac{2}{841}\sqrt{17270e^{35}}$	$(-\frac{108}{841}, \frac{135}{841}, -\frac{71}{841}, \frac{233}{841}, -\frac{10}{841}, \frac{27}{841}, -\frac{179}{841}, \frac{368}{841}, -\frac{81}{841}) + \frac{2}{841}\sqrt{62957e^4} \otimes e_9 + \frac{4}{841}\sqrt{13345e^2} \otimes e_7$	{12389, 14678, 25689, 34578}
941:50	$0, 0, 0, 0, 0, \frac{1}{851}\sqrt{151130e^{12}}, \frac{1}{851}\sqrt{156210e^{13}}, \frac{4}{851}\sqrt{635e^{24}}, \frac{1}{851}\sqrt{8890e^{16}} + \frac{1}{851}\sqrt{8890e^{35}}$	$(-\frac{140}{851}, \frac{361}{851}, \frac{358}{851}, -\frac{274}{851}, -\frac{277}{851}, \frac{221}{851}, \frac{218}{851}, \frac{87}{851}, \frac{81}{851}) + \frac{1}{851}\sqrt{478790e^2} \otimes e_4 + \frac{1}{851}\sqrt{481330e^3} \otimes e_5$	{123, 1257, 2367, 256}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:50	$0, 0, 0, 0, 0, \frac{31}{272}\sqrt{11}e^{12}, \frac{1}{1088}\sqrt{353958}e^{13}, \frac{1}{544}\sqrt{51491}e^{24},$ $\frac{1}{1088}\sqrt{75361}e^{16} + \frac{1}{1088}\sqrt{75361}e^{35}$	$(-\frac{167}{2176}, \frac{23}{1088}, \frac{197}{2176}, \frac{89}{272}, -\frac{485}{2176}, -\frac{121}{2176}, \frac{15}{1088}, \frac{379}{1088}, -\frac{9}{68})$ $+\frac{1}{1088}\sqrt{396242}e^4 \otimes e_7 + \frac{1}{544}\sqrt{73315}e^3 \otimes e_5$	{1348, 157, 367, 4568}
941:50	$0, 0, 0, 0, 0, \frac{45}{6673}\sqrt{2134}e^{12}, \frac{90}{6673}\sqrt{523}e^{13}, \frac{45}{6673}\sqrt{1634}e^{24},$ $\frac{225}{6673}\sqrt{62}e^{16} + \frac{315}{6673}\sqrt{6}e^{35}$	$(\frac{630}{6673}, \frac{315}{6673}, -\frac{540}{6673}, -\frac{1710}{6673}, \frac{2115}{6673}, \frac{945}{6673}, \frac{90}{6673}, -\frac{1395}{6673}, \frac{1575}{6673})$ $+\frac{45}{6673}\sqrt{3218}e^5 \otimes e_7 + \frac{45}{6673}\sqrt{5730}e^1 \otimes e_8 + \frac{90}{6673}\sqrt{773}e^2 \otimes e_4$	{236789, 25689}
941:50	$0, 0, 0, 0, 0, \frac{4}{1107}\sqrt{12882}e^{12}, \frac{2}{1107}\sqrt{30849}e^{13}, \frac{4}{369}\sqrt{1695}e^{24},$ $\frac{2}{369}\sqrt{565}e^{16} + \frac{1}{1107}\sqrt{90174}e^{35}$	$(\frac{28}{369}, \frac{71}{369}, -\frac{5}{123}, -\frac{155}{369}, \frac{142}{369}, \frac{11}{369}, \frac{13}{369}, -\frac{28}{123}, \frac{127}{369})$ $+\frac{2}{1107}\sqrt{140685}e^2 \otimes e_4 + \frac{2}{1107}\sqrt{190518}e^5 \otimes e_8$	{128, 1346789, 2678, 3489}
941:50	$0, 0, 0, 0, 0, \frac{2}{3825}\sqrt{141469}e^{12}, \frac{4}{3825}\sqrt{212570}e^{13}, \frac{2}{3825}\sqrt{566609}e^{24},$ $\frac{4}{765}\sqrt{4398}e^{16} + \frac{16}{3825}\sqrt{5131}e^{35}$	$(\frac{559}{3825}, -\frac{22}{153}, \frac{113}{425}, -\frac{7}{75}, -\frac{449}{3825}, \frac{1}{425}, \frac{1576}{3825}, -\frac{907}{3825}, \frac{568}{3825})$ $+\frac{2}{3825}\sqrt{962429}e^3 \otimes e_5 + \frac{8}{3825}\sqrt{96023}e^1 \otimes e_8$	{136, 1567, 3478, 458}
941:50	$0, 0, 0, 0, 0, \frac{2}{1369}\sqrt{129930}e^{12}, \frac{12}{1369}\sqrt{6405}e^{13}, \frac{1}{1369}\sqrt{1008330}e^{24},$ $\frac{1}{1369}\sqrt{404430}e^{16} + \frac{2}{1369}\sqrt{165615}e^{35}$	$(\frac{204}{1369}, -\frac{64}{1369}, \frac{503}{1369}, -\frac{348}{1369}, -\frac{159}{1369}, \frac{140}{1369}, \frac{707}{1369}, -\frac{412}{1369}, \frac{344}{1369})$ $+\frac{2}{1369}\sqrt{533445}e^3 \otimes e_8$	{123469, 1256789, 135, 1478, 23479, 2589, 3567, 468}
941:50	$0, 0, 0, 0, 0, \frac{3}{1042}\sqrt{622}e^{12}, \frac{3}{521}\sqrt{227}e^{13}, \frac{3}{521}\sqrt{310}e^{24},$ $\frac{3}{521}\sqrt{55}e^{16} + \frac{3}{521}\sqrt{290}e^{35}$	$(\frac{27}{521}, -\frac{42}{521}, -\frac{12}{521}, \frac{21}{521}, \frac{24}{521}, -\frac{15}{521}, \frac{15}{521}, -\frac{21}{521}, \frac{12}{521})$ $+\frac{39}{1042}\sqrt{10}e^3 \otimes e_8 + \frac{3}{1042}\sqrt{1070}e^5 \otimes e_7 + \frac{3}{1042}\sqrt{1126}e^4 \otimes e_9$	{1478, 2589}
941:50	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{30362}e^{12}, \frac{2}{353}\sqrt{17765}e^{13}, \frac{34}{353}\sqrt{57}e^{24},$ $\frac{2}{353}\sqrt{1938}e^{16} + \frac{2}{353}\sqrt{1938}e^{35}$	$(-\frac{83}{353}, \frac{204}{353}, -\frac{36}{353}, -\frac{40}{353}, \frac{74}{353}, \frac{121}{353}, -\frac{119}{353}, \frac{164}{353}, \frac{38}{353})$ $+\frac{1}{353}\sqrt{187986}e^2 \otimes e_7$	{1234, 1238, 146789, 1679, 2456, 2568, 345789, 3579}
941:50	$0, 0, 0, 0, 0, \frac{2}{277}\sqrt{1841}e^{12}, \frac{4}{277}\sqrt{263}e^{13}, \frac{1}{277}\sqrt{51022}e^{24},$ $\frac{1}{277}\sqrt{7890}e^{16} + \frac{10}{277}\sqrt{526}e^{35}$	$(\frac{84}{277}, -\frac{36}{277}, -\frac{45}{277}, -\frac{50}{277}, \frac{177}{277}, \frac{48}{277}, \frac{39}{277}, -\frac{86}{277}, \frac{132}{277})$ $+\frac{2}{277}\sqrt{30245}e^5 \otimes e_8$	{1236789, 124569, 1357, 148, 2389, 24579, 356, 4678}
941:50	$0, 0, 0, 0, 0, \frac{4}{2449}\sqrt{14133}e^{12}, \frac{6}{2449}\sqrt{41053}e^{13}, \frac{2}{2449}\sqrt{426682}e^{24},$ $\frac{12}{2449}\sqrt{4711}e^{16} + \frac{26}{2449}\sqrt{2019}e^{35}$	$(\frac{87}{2449}, \frac{381}{2449}, \frac{762}{2449}, -\frac{965}{2449}, -\frac{207}{2449}, \frac{468}{2449}, \frac{849}{2449}, -\frac{584}{2449}, \frac{555}{2449})$ $+\frac{2}{2449}\sqrt{1021614}e^3 \otimes e_8 + \frac{2}{2449}\sqrt{424663}e^2 \otimes e_4$	{1256789, 1478, 2589, 468}
941:50	$0, 0, 0, 0, 0, \frac{84}{4493}\sqrt{161}e^{12}, \frac{98}{4493}\sqrt{235}e^{13}, \frac{28}{4493}\sqrt{2065}e^{24},$ $\frac{182}{4493}\sqrt{35}e^{16} + \frac{14}{4493}\sqrt{8617}e^{35}$	$(\frac{369}{4493}, -\frac{11}{4493}, -\frac{164}{4493}, -\frac{839}{4493}, \frac{891}{4493}, \frac{358}{4493}, \frac{205}{4493}, -\frac{850}{4493}, \frac{727}{4493})$ $+\frac{14}{4493}\sqrt{12467}e^5 \otimes e_7 + \frac{14}{4493}\sqrt{16597}e^3 \otimes e_8$	{135, 1478, 23479, 2589}
941:50	$0, 0, 0, 0, 0, \frac{6}{331}\sqrt{851}e^{12}, \frac{12}{331}\sqrt{782}e^{13}, \frac{6}{331}\sqrt{713}e^{24},$ $\frac{12}{331}\sqrt{115}e^{16} + \frac{12}{331}\sqrt{115}e^{35}$	$(-\frac{23}{331}, \frac{62}{331}, \frac{215}{331}, \frac{25}{331}, -\frac{199}{331}, \frac{39}{331}, \frac{192}{331}, \frac{87}{331}, \frac{16}{331})$ $+\frac{30}{331}\sqrt{253}e^3 \otimes e_5$	{13, 1348, 14578, 157, 34678, 367, 4568, 56}
941:50	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{3}e^{12}, \frac{18}{71}\sqrt{3}e^{13}, \frac{36}{71}\sqrt{2}e^{24},$ $\frac{12}{71}\sqrt{15}e^{16} + \frac{12}{71}\sqrt{15}e^{35}$	$(\frac{2}{71}, -\frac{11}{71}, \frac{1}{71}, \frac{47}{71}, -\frac{8}{71}, -\frac{9}{71}, \frac{3}{71}, \frac{36}{71}, -\frac{7}{71})$ $+\frac{6}{71}\sqrt{177}e^4 \otimes e_9$	{1234567, 1246, 1379, 159, 2345, 247, 369, 5679}
941:50	$0, 0, 0, 0, 0, \frac{1}{293}\sqrt{3287}e^{12}, \frac{8}{293}\sqrt{95}e^{13}, \frac{3}{293}\sqrt{703}e^{24},$ $\frac{9}{293}\sqrt{38}e^{16} + \frac{1}{293}\sqrt{2337}e^{35}$	$(\frac{7}{293}, \frac{24}{293}, -\frac{21}{293}, -\frac{55}{293}, \frac{59}{293}, \frac{31}{293}, -\frac{14}{293}, -\frac{31}{293}, \frac{38}{293})$ $+\frac{19}{293}\sqrt{30}e^1 \otimes e_8 + \frac{1}{293}\sqrt{9291}e^2 \otimes e_7$	{123459, 1567, 2689, 3478}
941:50	$0, 0, 0, 0, 0, \frac{3}{16}\sqrt{2}e^{12}, \frac{3}{16}\sqrt{2}e^{13}, \frac{3}{8}\sqrt{2}e^{24},$ $\frac{3}{16}\sqrt{5}e^{16} + \frac{3}{16}\sqrt{5}e^{35}$	$(-\frac{1}{32}, -\frac{1}{16}, \frac{7}{32}, \frac{7}{16}, -\frac{11}{32}, -\frac{3}{32}, \frac{3}{8}, \frac{3}{8}, -\frac{1}{8})$ $+\frac{3}{16}\sqrt{10}e^3 \otimes e_5 + \frac{9}{16}\sqrt{2}e^4 \otimes e_9$	{139, 1579, 3679, 569}
941:50	$0, 0, 0, 0, 0, \frac{56}{1025}e^{12}, \frac{14}{1025}\sqrt{3}e^{13}, \frac{14}{1025}\sqrt{347}e^{24},$ $\frac{14}{1025}\sqrt{74}e^{16} + \frac{14}{1025}\sqrt{247}e^{35}$	$(\frac{28}{1025}, -\frac{7}{205}, -\frac{161}{1025}, \frac{119}{1025}, \frac{182}{1025}, -\frac{7}{1025}, -\frac{133}{1025}, \frac{84}{1025}, \frac{21}{1025})$ $+\frac{14}{1025}\sqrt{213}e^2 \otimes e_7 + \frac{14}{1025}\sqrt{346}e^5 \otimes e_8 + \frac{14}{1025}\sqrt{383}e^4 \otimes e_9$	{2345, 5679}
941:50	$0, 0, 0, 0, 0, \frac{1}{166}\sqrt{11234}e^{12}, \frac{1}{83}\sqrt{5343}e^{13}, \frac{1}{166}\sqrt{18906}e^{24},$ $\frac{3}{166}\sqrt{411}e^{16} + \frac{3}{166}\sqrt{411}e^{35}$	$(\frac{1}{332}, -\frac{2}{83}, -\frac{81}{332}, \frac{97}{166}, \frac{75}{332}, -\frac{7}{332}, -\frac{20}{83}, \frac{93}{166}, -\frac{3}{166})$ $+\frac{1}{83}\sqrt{9727}e^4 \otimes e_7$	{1234569, 126789, 1348, 157, 235789, 249, 367, 4568}
941:50	$0, 0, 0, 0, 0, \frac{2}{939}\sqrt{5358}e^{12}, \frac{4}{939}\sqrt{6439}e^{13}, \frac{2}{939}\sqrt{57058}e^{24},$ $\frac{8}{939}\sqrt{705}e^{16} + \frac{2}{939}\sqrt{27542}e^{35}$	$(-\frac{2}{939}, \frac{194}{939}, -\frac{60}{313}, -\frac{200}{939}, \frac{370}{939}, \frac{64}{313}, -\frac{182}{939}, -\frac{2}{313}, \frac{190}{939})$ $+\frac{26}{939}\sqrt{470}e^2 \otimes e_7 + \frac{4}{939}\sqrt{19411}e^5 \otimes e_8$	{12345, 15679, 268, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:50	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{33}e^{12}, \frac{4}{33}\sqrt{11}e^{13}, \frac{1}{33}\sqrt{286}e^{24},$ $\frac{1}{33}\sqrt{66}e^{16} + \frac{2}{33}\sqrt{22}e^{35}$	$(\frac{4}{33}, -\frac{4}{33}, -\frac{3}{11}, \frac{2}{11}, \frac{13}{33}, 0, -\frac{5}{33}, \frac{2}{33}, \frac{4}{33})$ $+ \frac{2}{33}\sqrt{77}e^5 \otimes e_8 + \frac{4}{33}\sqrt{22}e^4 \otimes e_7$	{23789, 2459, 3567, 468}
941:50	$0, 0, 0, 0, 0, \frac{60}{1481}\sqrt{37}e^{12}, \frac{30}{1481}\sqrt{281}e^{13}, \frac{30}{1481}\sqrt{202}e^{24},$ $\frac{75}{1481}\sqrt{23}e^{16} + \frac{90}{1481}\sqrt{23}e^{35}$	$(\frac{135}{1481}, -\frac{30}{1481}, -\frac{60}{1481}, -\frac{255}{1481}, \frac{300}{1481}, \frac{105}{1481}, \frac{75}{1481}, -\frac{285}{1481}, \frac{240}{1481})$ $+ \frac{15}{1481}\sqrt{1201}e^5 \otimes e_7 + \frac{15}{1481}\sqrt{1605}e^3 \otimes e_8 + \frac{15}{1481}\sqrt{71}e^2 \otimes e_4$	{135, 23479}
941:50	$0, 0, 0, 0, 0, \frac{120}{3361}\sqrt{145}e^{12}, \frac{30}{3361}\sqrt{1885}e^{13}, \frac{30}{3361}\sqrt{130}e^{24},$ $\frac{300}{3361}\sqrt{10}e^{16} + \frac{30}{3361}\sqrt{3045}e^{35}$	$(-\frac{255}{3361}, \frac{1305}{3361}, -\frac{600}{3361}, -\frac{945}{3361}, \frac{1395}{3361}, \frac{1050}{3361}, -\frac{855}{3361}, \frac{360}{3361}, \frac{795}{3361})$ $+ \frac{30}{3361}\sqrt{6785}e^2 \otimes e_4 + \frac{30}{3361}\sqrt{8090}e^5 \otimes e_7$	{1235, 127, 3479, 459}
941:50	$0, 0, 0, 0, 0, \frac{2}{1441}\sqrt{122366}e^{12}, \frac{2}{1441}\sqrt{155465}e^{13}, \frac{1}{1441}\sqrt{800394}e^{24},$ $\frac{12}{1441}\sqrt{6018}e^{16} + \frac{1}{1441}\sqrt{330990}e^{35}$	$(\frac{455}{1441}, -\frac{36}{131}, \frac{102}{1441}, -\frac{152}{1441}, \frac{412}{1441}, \frac{59}{1441}, \frac{557}{1441}, -\frac{548}{1441}, \frac{514}{1441})$ $+ \frac{2}{1441}\sqrt{598791}e^1 \otimes e_8$	{123459, 12479, 136, 1567, 2356789, 2689, 3478, 458}
941:50	$0, 0, 0, 0, 0, \frac{1}{1037}\sqrt{26970}e^{12}, \frac{30}{1037}\sqrt{145}e^{13}, \frac{1}{1037}\sqrt{129282}e^{24},$ $\frac{4}{1037}\sqrt{2958}e^{16} + \frac{1}{1037}\sqrt{43674}e^{35}$	$(-\frac{69}{1037}, \frac{220}{1037}, \frac{115}{1037}, -\frac{279}{1037}, -\frac{33}{1037}, \frac{151}{1037}, \frac{46}{1037}, -\frac{59}{1037}, \frac{82}{1037})$ $+ \frac{2}{1037}\sqrt{45501}e^3 \otimes e_8 + \frac{3}{1037}\sqrt{16298}e^2 \otimes e_7$	{123469, 1478, 2589, 3567}
941:50	$0, 0, 0, 0, 0, \frac{2}{1621}\sqrt{34221}e^{12}, \frac{2}{1621}\sqrt{142923}e^{13}, \frac{3}{1621}\sqrt{46970}e^{24},$ $\frac{2}{1621}\sqrt{63745}e^{16} + \frac{1}{1621}\sqrt{68442}e^{35}$	$(\frac{329}{1621}, -\frac{222}{1621}, \frac{282}{1621}, -\frac{120}{1621}, \frac{718}{1621}, \frac{107}{1621}, \frac{47}{1621}, -\frac{342}{1621}, \frac{436}{1621})$ $+ \frac{2}{1621}\sqrt{192577}e^5 \otimes e_7 + \frac{2}{1621}\sqrt{285846}e^1 \otimes e_8$	{1356, 167, 236789, 25689}
941:50	$0, 0, 0, 0, 0, \frac{279}{6809}\sqrt{6}e^{12}, \frac{62}{6809}\sqrt{327}e^{13}, \frac{31}{6809}\sqrt{3594}e^{24},$ $\frac{31}{6809}\sqrt{2830}e^{16} + \frac{217}{6809}\sqrt{30}e^{35}$	$(\frac{868}{6809}, -\frac{1395}{6809}, -\frac{744}{6809}, \frac{1302}{6809}, \frac{1085}{6809}, -\frac{527}{6809}, \frac{124}{6809}, -\frac{93}{6809}, \frac{31}{619})$ $+ \frac{155}{6809}\sqrt{94}e^5 \otimes e_7 + \frac{403}{6809}\sqrt{30}e^1 \otimes e_8 + \frac{62}{6809}\sqrt{1227}e^4 \otimes e_9$	{236789, 25689}
941:50	$0, 0, 0, 0, 0, \frac{2}{3849}\sqrt{101829}e^{12}, \frac{26}{3849}\sqrt{373}e^{13}, \frac{4}{3849}\sqrt{111154}e^{24},$ $\frac{4}{3849}\sqrt{106305}e^{16} + \frac{4}{3849}\sqrt{24245}e^{35}$	$(\frac{598}{3849}, -\frac{1045}{3849}, -\frac{3}{1283}, \frac{299}{1283}, \frac{160}{3849}, -\frac{149}{1283}, \frac{589}{3849}, -\frac{148}{3849}, \frac{151}{3849})$ $+ \frac{2}{3849}\sqrt{622537}e^4 \otimes e_9 + \frac{8}{3849}\sqrt{41030}e^1 \otimes e_8$	{236789, 25689, 34578, 48}
941:50	$0, 0, 0, 0, 0, \frac{1}{2203}\sqrt{65230}e^{12}, \frac{1}{2203}\sqrt{108130}e^{13}, \frac{2}{2203}\sqrt{25630}e^{24},$ $\frac{1}{2203}\sqrt{38170}e^{16} + \frac{2}{2203}\sqrt{5335}e^{35}$	$(\frac{93}{2203}, -\frac{203}{2203}, \frac{41}{2203}, \frac{189}{2203}, -\frac{58}{2203}, -\frac{110}{2203}, \frac{134}{2203}, -\frac{14}{2203}, -\frac{17}{2203})$ $+ \frac{2}{2203}\sqrt{29755}e^3 \otimes e_8 + \frac{5}{2203}\sqrt{4334}e^4 \otimes e_7$	{123469, 1256789, 3567, 468}
941:50	$0, 0, 0, 0, 0, \frac{3}{338}\sqrt{12630}e^{12}, \frac{1}{169}\sqrt{8841}e^{13}, \frac{5}{338}\sqrt{842}e^{24},$ $\frac{1}{338}\sqrt{21471}e^{16} + \frac{1}{338}\sqrt{21471}e^{35}$	$(-\frac{9}{52}, \frac{114}{169}, \frac{153}{676}, -\frac{193}{338}, \frac{69}{676}, \frac{339}{676}, \frac{9}{169}, \frac{35}{338}, \frac{111}{338})$ $+ \frac{1}{169}\sqrt{58519}e^2 \otimes e_4$	{12379, 1259, 134567, 146, 2369, 25679, 345, 47}
941:50	$0, 0, 0, 0, 0, \frac{6}{1081}\sqrt{229}e^{12}, \frac{4}{1081}\sqrt{23358}e^{13}, \frac{2}{1081}\sqrt{48777}e^{24},$ $\frac{4}{1081}\sqrt{4351}e^{16} + \frac{4}{1081}\sqrt{4351}e^{35}$	$(-\frac{237}{1081}, \frac{426}{1081}, \frac{205}{1081}, -\frac{109}{1081}, -\frac{11}{47}, \frac{189}{1081}, -\frac{32}{8}, \frac{317}{1081}, -\frac{48}{1081})$ $+ \frac{2}{1081}\sqrt{99157}e^3 \otimes e_5 + \frac{8}{1081}\sqrt{7786}e^2 \otimes e_7$	{1234, 1238, 2456, 2568}
941:50	$0, 0, 0, 0, 0, \frac{2}{53}\sqrt{33}e^{12}, \frac{2}{53}\sqrt{33}e^{13}, \frac{4}{53}\sqrt{33}e^{24},$ $\frac{2}{53}\sqrt{55}e^{16} + \frac{2}{53}\sqrt{165}e^{35}$	$(\frac{1}{53}, -\frac{3}{53}, -\frac{12}{53}, \frac{21}{53}, \frac{11}{53}, -\frac{2}{53}, -\frac{11}{53}, \frac{18}{53}, -\frac{1}{53})$ $+ \frac{4}{53}\sqrt{55}e^5 \otimes e_7 + \frac{6}{53}\sqrt{33}e^4 \otimes e_9$	{123456, 12467, 3679, 569}
941:50	$0, 0, 0, 0, 0, \frac{2}{1361}\sqrt{74409}e^{12}, \frac{2}{1361}\sqrt{310767}e^{13}, \frac{1}{1361}\sqrt{323898}e^{24},$ $\frac{2}{1361}\sqrt{138605}e^{16} + \frac{5}{1361}\sqrt{43770}e^{35}$	$(\frac{97}{1361}, \frac{222}{1361}, -\frac{570}{1361}, \frac{120}{1361}, \frac{986}{1361}, \frac{319}{1361}, -\frac{473}{1361}, \frac{342}{1361}, \frac{416}{1361})$ $+ \frac{2}{1361}\sqrt{824335}e^5 \otimes e_7$	{13458, 135, 1478, 17, 23479, 23789, 2459, 2589}
941:50	$0, 0, 0, 0, 0, \frac{2}{3741}\sqrt{159333}e^{12}, \frac{2}{3741}\sqrt{150737}e^{13}, \frac{4}{3741}\sqrt{108985}e^{24},$ $\frac{2}{3741}\sqrt{44515}e^{16} + \frac{2}{1247}\sqrt{35305}e^{35}$	$(\frac{79}{1247}, -\frac{547}{3741}, \frac{608}{3741}, \frac{541}{3741}, -\frac{227}{1247}, -\frac{310}{3741}, \frac{845}{3741}, -\frac{2}{1247}, -\frac{73}{3741})$ $+ \frac{2}{3741}\sqrt{493349}e^4 \otimes e_9 + \frac{4}{3741}\sqrt{136615}e^3 \otimes e_8$	{123456, 139, 23457, 3679}
941:51	$0, 0, 0, 0, 0, \frac{14}{821}\sqrt{110}e^{12}, \frac{2}{821}\sqrt{24486}e^{13}, \frac{2}{821}\sqrt{24486}e^{24},$ $\frac{42}{821}\sqrt{11}e^{26} + \frac{42}{821}\sqrt{11}e^{35}$	$(\frac{178}{821}, -\frac{119}{821}, -\frac{189}{821}, \frac{143}{821}, \frac{129}{821}, \frac{59}{821}, -\frac{11}{821}, \frac{24}{821}, -\frac{60}{821})$ $+ \frac{12}{821}\sqrt{770}e^1 \otimes e_8 + \frac{2}{821}\sqrt{30415}e^4 \otimes e_7$	{1234569, 179, 2378, 4568}
941:51	$0, 0, 0, 0, 0, \frac{16}{457}\sqrt{85}e^{12}, \frac{16}{457}\sqrt{83}e^{13}, \frac{16}{457}\sqrt{209}e^{24},$ $\frac{16}{457}\sqrt{85}e^{26} + \frac{16}{457}\sqrt{83}e^{35}$	$(\frac{39}{457}, -\frac{2}{457}, -\frac{129}{457}, \frac{38}{457}, \frac{164}{457}, \frac{37}{457}, -\frac{90}{457}, \frac{36}{457}, \frac{35}{457})$ $+ \frac{16}{457}\sqrt{210}e^4 \otimes e_7 + \frac{16}{457}\sqrt{210}e^5 \otimes e_8$	{13489, 1579, 3567, 468}
941:51	$0, 0, 0, 0, 0, \frac{4}{261}\sqrt{239}e^{12}, \frac{4}{261}\sqrt{239}e^{13}, \frac{2}{261}\sqrt{9321}e^{24},$ $\frac{1}{261}\sqrt{16730}e^{26} + \frac{2}{261}\sqrt{9321}e^{35}$	$(\frac{62}{261}, -\frac{59}{261}, -\frac{8}{87}, \frac{61}{87}, -\frac{32}{261}, \frac{87}{87}, \frac{38}{261}, \frac{124}{261}, -\frac{56}{261})$ $+ \frac{1}{261}\sqrt{102770}e^4 \otimes e_9$	{1234567, 1246, 134578, 148, 2389, 25789, 369, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:51	$0, 0, 0, 0, 0, \frac{1}{261}\sqrt{16730}e^{12}, \frac{2}{261}\sqrt{9321}e^{13}, \frac{2}{261}\sqrt{9321}e^{24},$ $\frac{4}{261}\sqrt{239}e^{26} + \frac{4}{261}\sqrt{239}e^{35}$	$(\frac{148}{261}, -\frac{59}{261}, -\frac{8}{87}, -\frac{32}{261}, \frac{6}{29}, \frac{89}{261}, \frac{124}{261}, -\frac{91}{261}, \frac{10}{87})$ $+ \frac{1}{261}\sqrt{102770}e^1 \otimes e_8$	{1234, 12457, 136, 1567, 2356789, 2689, 345789, 489}
941:51	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{28}{139}\sqrt{3}e^{13}, \frac{18}{139}\sqrt{14}e^{24},$ $\frac{4}{139}\sqrt{70}e^{26} + \frac{6}{139}\sqrt{42}e^{35}$	$(-\frac{12}{139}, \frac{26}{139}, -\frac{18}{139}, -\frac{24}{139}, \frac{58}{139}, \frac{14}{139}, -\frac{30}{139}, \frac{2}{139}, \frac{40}{139})$ $+ \frac{4}{139}\sqrt{385}e^5 \otimes e_8 + \frac{6}{139}\sqrt{210}e^2 \otimes e_7$	{12389, 15679, 268, 357}
941:51	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{51}e^{12}, \frac{2}{41}\sqrt{51}e^{13}, \frac{6}{41}\sqrt{34}e^{24},$ $\frac{2}{41}\sqrt{170}e^{26} + \frac{6}{41}\sqrt{34}e^{35}$	$(\frac{12}{41}, \frac{1}{41}, -\frac{9}{41}, -\frac{12}{41}, \frac{23}{41}, \frac{13}{41}, \frac{3}{41}, -\frac{11}{41}, \frac{14}{41})$ $+ \frac{2}{41}\sqrt{595}e^5 \otimes e_8$	{1236789, 124569, 134789, 159, 2345, 278, 356, 4678}
941:51	$0, 0, 0, 0, 0, \frac{8}{159}\sqrt{87}e^{12}, \frac{8}{159}\sqrt{39}e^{13}, \frac{8}{53}\sqrt{5}e^{24},$ $\frac{8}{53}\sqrt{5}e^{26} + \frac{8}{159}\sqrt{87}e^{35}$	$(\frac{1}{53}, \frac{10}{53}, \frac{1}{53}, -\frac{22}{53}, \frac{20}{53}, \frac{11}{53}, \frac{2}{53}, -\frac{12}{53}, \frac{21}{53})$ $+ \frac{8}{159}\sqrt{210}e^2 \otimes e_4 + \frac{8}{159}\sqrt{210}e^5 \otimes e_8$	{123789, 1346789, 2678, 478}
941:51	$0, 0, 0, 0, 0, \frac{53}{251}\sqrt{6}e^{12}, \frac{2}{251}\sqrt{6042}e^{13}, \frac{1}{251}\sqrt{37842}e^{24},$ $\frac{53}{251}\sqrt{6}e^{26} + \frac{2}{251}\sqrt{6042}e^{35}$	$(\frac{13}{251}, \frac{23}{251}, \frac{99}{251}, -\frac{83}{251}, -\frac{40}{251}, \frac{36}{251}, \frac{112}{251}, -\frac{60}{251}, \frac{59}{251})$ $+ \frac{1}{251}\sqrt{68370}e^3 \otimes e_8$	{123469, 1256789, 139, 145789, 23457, 28, 3567, 468}
941:51	$0, 0, 0, 0, 0, \frac{18}{671}\sqrt{10}e^{12}, \frac{3}{671}\sqrt{514}e^{13}, \frac{54}{671}\sqrt{2}e^{24},$ $\frac{3}{671}\sqrt{2}e^{26} + \frac{12}{671}\sqrt{10}e^{35}$	$(-\frac{36}{671}, \frac{18}{671}, \frac{39}{671}, \frac{12}{671}, -\frac{39}{671}, -\frac{18}{671}, \frac{3}{671}, \frac{30}{671}, 0)$ $+ \frac{3}{671}\sqrt{590}e^4 \otimes e_7 + \frac{3}{671}\sqrt{670}e^3 \otimes e_8$	{123469, 1256789, 3567, 468}
941:51	$0, 0, 0, 0, 0, \frac{6}{4009}\sqrt{6790}e^{12}, \frac{24}{4009}\sqrt{8633}e^{13}, \frac{6}{4009}\sqrt{76630}e^{24},$ $\frac{24}{4009}\sqrt{97}e^{26} + \frac{18}{4009}\sqrt{3589}e^{35}$	$(\frac{930}{4009}, -\frac{435}{4009}, \frac{903}{4009}, -\frac{381}{4009}, -\frac{843}{4009}, \frac{495}{4009}, \frac{1833}{4009}, -\frac{816}{4009}, \frac{60}{4009})$ $+ \frac{6}{4009}\sqrt{153745}e^3 \otimes e_5 + \frac{6}{4009}\sqrt{195455}e^1 \otimes e_8$	{1234, 12457, 136, 1567}
941:51	$0, 0, 0, 0, 0, \frac{63}{1069}\sqrt{10}e^{12}, \frac{18}{1069}\sqrt{273}e^{13}, \frac{3}{1069}\sqrt{6874}e^{24},$ $\frac{210}{1069}e^{26} + \frac{3}{1069}\sqrt{3962}e^{35}$	$(\frac{33}{1069}, \frac{51}{1069}, -\frac{108}{1069}, -\frac{144}{1069}, \frac{243}{1069}, \frac{84}{1069}, -\frac{75}{1069}, -\frac{93}{1069}, \frac{135}{1069})$ $+ \frac{12}{1069}\sqrt{770}e^1 \otimes e_8 + \frac{3}{1069}\sqrt{14770}e^2 \otimes e_7$	{123459, 1679, 2568, 3478}
941:51	$0, 0, 0, 0, 0, \frac{4}{249}\sqrt{933}e^{12}, \frac{1}{83}\sqrt{6842}e^{13}, \frac{1}{249}\sqrt{10574}e^{24},$ $\frac{1}{249}\sqrt{10574}e^{26} + \frac{4}{249}\sqrt{933}e^{35}$	$(-\frac{31}{249}, \frac{34}{249}, \frac{58}{83}, \frac{9}{83}, -\frac{137}{249}, \frac{1}{83}, \frac{143}{249}, \frac{61}{249}, \frac{37}{249})$ $+ \frac{1}{249}\sqrt{127510}e^3 \otimes e_5$	{12346, 12368, 124567, 125678, 13, 1348, 14578, 157}
941:51	$0, 0, 0, 0, 0, \frac{17}{159}\sqrt{3}e^{12}, \frac{1}{159}\sqrt{6018}e^{13}, \frac{1}{53}\sqrt{221}e^{24},$ $\frac{1}{159}\sqrt{3774}e^{26} + \frac{1}{159}\sqrt{2703}e^{35}$	$(-\frac{17}{53}, \frac{13}{53}, \frac{13}{53}, -\frac{1}{53}, -\frac{4}{53}, -\frac{4}{53}, -\frac{4}{53}, \frac{12}{53}, \frac{9}{53})$ $+ \frac{1}{159}\sqrt{5610}e^3 \otimes e_5 + \frac{5}{159}\sqrt{357}e^2 \otimes e_7$	{2456, 2568, 3478, 37}
941:51	$0, 0, 0, 0, 0, \frac{4}{3771}\sqrt{50141}e^{12}, \frac{28}{3771}\sqrt{1537}e^{13}, \frac{4}{3771}\sqrt{159558}e^{24},$ $\frac{4}{3771}\sqrt{23345}e^{26} + \frac{4}{3771}\sqrt{222285}e^{35}$	$(\frac{292}{3771}, -\frac{238}{3771}, -\frac{350}{1257}, \frac{160}{419}, \frac{866}{3771}, \frac{6}{419}, -\frac{758}{3771}, \frac{1202}{3771}, -\frac{184}{3771})$ $- \frac{4}{3771}\sqrt{313635}e^5 \otimes e_7 + \frac{4}{3771}\sqrt{367430}e^4 \otimes e_9$	{123456, 12467, 13458, 1478, 23789, 2589, 3679, 569}
941:51	$0, 0, 0, 0, 0, \frac{4}{3771}\sqrt{50141}e^{12}, \frac{28}{3771}\sqrt{1537}e^{13}, \frac{4}{3771}\sqrt{159558}e^{24},$ $\frac{4}{3771}\sqrt{23345}e^{26} + \frac{4}{3771}\sqrt{222285}e^{35}$	$(\frac{292}{3771}, -\frac{238}{3771}, -\frac{350}{1257}, \frac{160}{419}, \frac{866}{3771}, \frac{6}{419}, -\frac{758}{3771}, \frac{1202}{3771}, -\frac{184}{3771})$ $+ \frac{4}{3771}\sqrt{313635}e^5 \otimes e_7 + \frac{4}{3771}\sqrt{367430}e^4 \otimes e_9$	{123456, 12467, 13458, 1478, 23789, 2589, 3679, 569}
941:51	$0, 0, 0, 0, 0, \frac{42}{821}\sqrt{11}e^{12}, \frac{42}{821}\sqrt{11}e^{13}, \frac{2}{821}\sqrt{24486}e^{24},$ $\frac{14}{821}\sqrt{110}e^{26} + \frac{2}{821}\sqrt{24486}e^{35}$	$(\frac{192}{821}, -\frac{119}{821}, -\frac{189}{821}, \frac{108}{821}, \frac{143}{821}, \frac{73}{821}, \frac{3}{821}, -\frac{11}{821}, -\frac{46}{821})$ $+ \frac{12}{821}\sqrt{770}e^4 \otimes e_9 + \frac{2}{821}\sqrt{30415}e^5 \otimes e_8$	{1236789, 159, 2345, 4678}
941:51	$0, 0, 0, 0, 0, \frac{2}{1403}\sqrt{127470}e^{12}, \frac{2}{1403}\sqrt{41883}e^{13}, \frac{1}{1403}\sqrt{6070}e^{24},$ $\frac{1}{1403}\sqrt{367842}e^{26} + \frac{8}{1403}\sqrt{1821}e^{35}$	$(\frac{180}{1403}, \frac{90}{1403}, \frac{111}{1403}, -\frac{517}{1403}, \frac{249}{1403}, \frac{270}{1403}, \frac{291}{1403}, -\frac{7}{23}, \frac{360}{1403})$ $+ \frac{1}{1403}\sqrt{807310}e^2 \otimes e_4 + \frac{3}{1403}\sqrt{78910}e^1 \otimes e_8$	{23678, 2568, 3478, 458}
941:51	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{34}e^{12}, \frac{2}{41}\sqrt{51}e^{13}, \frac{2}{41}\sqrt{170}e^{24},$ $\frac{6}{41}\sqrt{34}e^{26} + \frac{2}{41}\sqrt{51}e^{35}$	$(-\frac{9}{41}, \frac{15}{41}, \frac{12}{41}, -\frac{19}{41}, \frac{9}{41}, \frac{6}{41}, \frac{3}{41}, -\frac{4}{41}, \frac{21}{41})$ $+ \frac{2}{41}\sqrt{595}e^2 \otimes e_4$	{123579, 129, 1345679, 1469, 236, 2567, 34, 457}
941:51	$0, 0, 0, 0, 0, \frac{2}{357}\sqrt{511}e^{12}, \frac{2}{357}\sqrt{4234}e^{13}, \frac{2}{357}\sqrt{4307}e^{24},$ $\frac{1}{357}\sqrt{2482}e^{26} + \frac{1}{357}\sqrt{3358}e^{35}$	$(-\frac{65}{357}, \frac{71}{357}, \frac{3}{17}, -\frac{27}{119}, \frac{2}{51}, \frac{2}{119}, -\frac{2}{357}, -\frac{10}{357}, \frac{11}{51})$ $+ \frac{1}{357}\sqrt{22630}e^2 \otimes e_7 + \frac{1}{357}\sqrt{24090}e^3 \otimes e_8$	{123456, 1478, 2589, 3679}
941:51	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{170}e^{12}, \frac{6}{41}\sqrt{34}e^{13}, \frac{6}{41}\sqrt{34}e^{24},$ $\frac{2}{41}\sqrt{51}e^{26} + \frac{2}{41}\sqrt{51}e^{35}$	$(-\frac{2}{41}, \frac{1}{41}, -\frac{9}{41}, \frac{23}{41}, \frac{9}{41}, -\frac{1}{41}, -\frac{11}{41}, \frac{24}{41}, 0)$ $+ \frac{2}{41}\sqrt{595}e^4 \otimes e_7$	{1234569, 126789, 134589, 179, 2378, 245, 367, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:51	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{2}{3}e^{13}, \frac{1}{3}\sqrt{2}e^{24}, \frac{2}{3}e^{26} + \frac{1}{3}\sqrt{2}e^{35}$	$(-\frac{1}{3}, \frac{1}{3}, 0, 0, \frac{1}{3}, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{10}e^2 \otimes e_7$	{123459, 123589, 146789, 1679, 2456, 2568, 3478, 37}
941:51	$0, 0, 0, 0, 0, \frac{4}{3771}\sqrt{23345}e^{12}, \frac{4}{3771}\sqrt{222285}e^{13}, \frac{4}{3771}\sqrt{159558}e^{24},$ $\frac{4}{3771}\sqrt{50141}e^{26} + \frac{28}{3771}\sqrt{1537}e^{35}$	$(\frac{1016}{3771}, -\frac{238}{3771}, -\frac{350}{1257}, -\frac{370}{3771}, \frac{530}{1257}, \frac{778}{3771}, -\frac{34}{3771}, -\frac{608}{3771}, \frac{60}{419})$ $-\frac{4}{3771}\sqrt{313635}e^5 \otimes e_7 + \frac{4}{3771}\sqrt{367430}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
941:51	$0, 0, 0, 0, 0, \frac{4}{3771}\sqrt{23345}e^{12}, \frac{4}{3771}\sqrt{222285}e^{13}, \frac{4}{3771}\sqrt{159558}e^{24},$ $\frac{4}{3771}\sqrt{50141}e^{26} + \frac{28}{3771}\sqrt{1537}e^{35}$	$(\frac{1016}{3771}, -\frac{238}{3771}, -\frac{350}{1257}, -\frac{370}{3771}, \frac{530}{1257}, \frac{778}{3771}, -\frac{34}{3771}, -\frac{608}{3771}, \frac{60}{419})$ $+ \frac{4}{3771}\sqrt{313635}e^5 \otimes e_7 + \frac{4}{3771}\sqrt{367430}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
941:51	$0, 0, 0, 0, 0, \frac{2}{1047}\sqrt{24411}e^{12}, \frac{4}{1047}\sqrt{11742}e^{13}, \frac{4}{1047}\sqrt{16377}e^{24},$ $\frac{2}{349}\sqrt{3605}e^{26} + \frac{6}{349}\sqrt{515}e^{35}$	$(\frac{18}{349}, -\frac{37}{349}, \frac{75}{349}, \frac{150}{349}, -\frac{131}{349}, -\frac{19}{349}, \frac{93}{349}, \frac{113}{349}, -\frac{56}{349})$ $+ \frac{2}{1047}\sqrt{118965}e^3 \otimes e_5 + \frac{2}{1047}\sqrt{165315}e^4 \otimes e_9$	{23789, 2589, 3679, 569}
941:51	$0, 0, 0, 0, 0, \frac{2}{4009}\sqrt{585510}e^{12}, \frac{2}{4009}\sqrt{1193902}e^{13}, \frac{10}{4009}\sqrt{30958}e^{24},$ $\frac{2}{4009}\sqrt{88163}e^{26} + \frac{2}{4009}\sqrt{298139}e^{35}$	$(-\frac{590}{4009}, \frac{165}{4009}, \frac{543}{4009}, \frac{1299}{4009}, -\frac{803}{4009}, -\frac{425}{4009}, -\frac{47}{4009}, \frac{1464}{4009}, -\frac{260}{4009})$ $+ \frac{2}{4009}\sqrt{1436855}e^4 \otimes e_7 + \frac{4}{4009}\sqrt{262470}e^3 \otimes e_5$	{2378, 245, 367, 4568}
941:51	$0, 0, 0, 0, 0, \frac{2}{231}\sqrt{30}e^{12}, \frac{4}{77}\sqrt{3}e^{13}, \frac{2}{231}\sqrt{894}e^{24},$ $\frac{4}{231}\sqrt{30}e^{26} + \frac{2}{231}\sqrt{618}e^{35}$	$(\frac{4}{77}, -\frac{2}{77}, -\frac{2}{11}, \frac{8}{77}, \frac{2}{11}, \frac{2}{77}, -\frac{10}{77}, \frac{6}{77}, 0)$ $+ \frac{16}{231}\sqrt{15}e^4 \otimes e_9 + \frac{20}{77}e^5 \otimes e_8 + \frac{2}{231}\sqrt{690}e^2 \otimes e_7$	{123456, 1478}
941:51	$0, 0, 0, 0, 0, \frac{2}{141}\sqrt{195}e^{12}, \frac{4}{47}\sqrt{13}e^{13}, \frac{8}{141}\sqrt{39}e^{24},$ $\frac{1}{141}\sqrt{2730}e^{26} + \frac{2}{141}\sqrt{78}e^{35}$	$(-\frac{6}{47}, \frac{3}{47}, -\frac{4}{47}, \frac{13}{47}, \frac{4}{47}, -\frac{3}{47}, -\frac{10}{47}, \frac{16}{47}, 0)$ $+ \frac{1}{141}\sqrt{4290}e^4 \otimes e_9 + \frac{2}{141}\sqrt{1365}e^2 \otimes e_7$	{12389, 15679, 246, 34578}
941:51	$0, 0, 0, 0, 0, \frac{8}{1373}\sqrt{7870}e^{12}, \frac{1}{1373}\sqrt{225082}e^{13}, \frac{1}{1373}\sqrt{306930}e^{24},$ $\frac{1}{1373}\sqrt{650062}e^{26} + \frac{4}{1373}\sqrt{13379}e^{35}$	$(-\frac{315}{1373}, \frac{370}{1373}, \frac{606}{1373}, -\frac{417}{1373}, -\frac{181}{1373}, \frac{55}{1373}, \frac{291}{1373}, -\frac{47}{1373}, \frac{425}{1373})$ $+ \frac{1}{1373}\sqrt{731910}e^3 \otimes e_5 + \frac{4}{1373}\sqrt{74765}e^2 \otimes e_4$	{2367, 256, 347, 45}
941:51	$0, 0, 0, 0, 0, \frac{8}{3771}\sqrt{10877}e^{12}, \frac{4}{3771}\sqrt{41245}e^{13}, \frac{4}{3771}\sqrt{113442}e^{24},$ $\frac{4}{3771}\sqrt{21535}e^{26} + \frac{4}{3771}\sqrt{85191}e^{35}$	$(\frac{362}{3771}, -\frac{332}{3771}, \frac{178}{1257}, \frac{94}{1257}, -\frac{836}{3771}, \frac{10}{1257}, \frac{896}{3771}, -\frac{50}{3771}, -\frac{302}{3771})$ $+ \frac{4}{1257}\sqrt{15695}e^3 \otimes e_8 + \frac{4}{3771}\sqrt{109865}e^4 \otimes e_9$	{1256789, 139, 23457, 468}
941:51	$0, 0, 0, 0, 0, \frac{12}{487}\sqrt{55}e^{12}, \frac{18}{487}\sqrt{77}e^{13}, \frac{6}{487}\sqrt{1639}e^{24},$ $\frac{12}{487}\sqrt{55}e^{26} + \frac{18}{487}\sqrt{77}e^{35}$	$(\frac{189}{487}, -\frac{132}{487}, -\frac{69}{487}, \frac{123}{487}, -\frac{6}{487}, \frac{57}{487}, \frac{120}{487}, -\frac{9}{487}, -\frac{75}{487})$ $+ \frac{6}{487}\sqrt{2365}e^1 \otimes e_8 + \frac{6}{487}\sqrt{2365}e^4 \otimes e_9$	{1369, 15679, 34578, 48}
941:52	$0, 0, 0, 0, 0, \frac{2}{3269}\sqrt{122181}e^{12}, \frac{2}{3269}\sqrt{283917}e^{13}, \frac{8}{3269}\sqrt{4395}e^{34},$ $\frac{2}{3269}\sqrt{86435}e^{15} + \frac{12}{3269}\sqrt{9669}e^{26}$	$(-\frac{746}{3269}, \frac{320}{3269}, \frac{480}{3269}, \frac{15}{467}, \frac{640}{3269}, -\frac{426}{3269}, -\frac{38}{467}, \frac{585}{3269}, -\frac{106}{3269})$ $+ \frac{16}{3269}\sqrt{6153}e^3 \otimes e_9 + \frac{4}{3269}\sqrt{115735}e^2 \otimes e_7$	{1456789, 15679, 3457, 3578}
941:52	$0, 0, 0, 0, 0, \frac{5}{279}\sqrt{1310}e^{12}, \frac{4}{279}\sqrt{786}e^{13}, \frac{1}{279}\sqrt{28558}e^{34},$ $\frac{4}{279}\sqrt{786}e^{15} + \frac{1}{279}\sqrt{28558}e^{26}$	$(\frac{13}{279}, \frac{5}{31}, -\frac{19}{279}, -\frac{67}{31}, \frac{10}{279}, \frac{58}{279}, -\frac{2}{93}, -\frac{86}{279}, \frac{103}{279})$ $+ \frac{1}{279}\sqrt{62094}e^2 \otimes e_8$	{1234579, 1259, 1356789, 145689, 23456, 2567, 358, 4578}
941:52	$0, 0, 0, 0, 0, \frac{1}{1621}\sqrt{158746}e^{12}, \frac{1}{1621}\sqrt{17342}e^{13}, \frac{4}{1621}\sqrt{28014}e^{34},$ $\frac{4}{1621}\sqrt{43355}e^{15} + \frac{1}{1621}\sqrt{222778}e^{26}$	$(-\frac{238}{1621}, \frac{128}{1621}, -\frac{173}{1621}, \frac{685}{1621}, \frac{256}{1621}, -\frac{110}{1621}, -\frac{411}{1621}, \frac{512}{1621}, \frac{18}{1621})$ $+ \frac{13}{1621}\sqrt{6670}e^4 \otimes e_9 + \frac{20}{1621}\sqrt{2001}e^5 \otimes e_7$	{123456, 1345, 259, 569}
941:52	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{646}e^{12}, \frac{2}{2167}\sqrt{50065}e^{13}, \frac{1}{2167}\sqrt{399874}e^{34},$ $\frac{1}{2167}\sqrt{321062}e^{15} + \frac{7}{2167}\sqrt{3230}e^{26}$	$(\frac{22}{197}, -\frac{131}{2167}, \frac{303}{2167}, -\frac{384}{2167}, -\frac{262}{2167}, \frac{111}{2167}, \frac{545}{2167}, -\frac{81}{2167}, -\frac{20}{2167})$ $+ \frac{17}{2167}\sqrt{2090}e^1 \otimes e_8 + \frac{1}{2167}\sqrt{644062}e^3 \otimes e_9$	{1279, 1679, 23678, 378}
941:52	$0, 0, 0, 0, 0, \frac{14}{51}e^{12}, \frac{2}{51}\sqrt{91}e^{13}, \frac{2}{51}\sqrt{42}e^{34},$ $\frac{2}{51}\sqrt{91}e^{15} + \frac{2}{51}\sqrt{42}e^{26}$	$(-\frac{14}{51}, \frac{2}{17}, \frac{4}{17}, -\frac{1}{51}, \frac{4}{17}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{2}{51}\sqrt{182}e^3 \otimes e_9 - \frac{4}{51}\sqrt{35}e^5 \otimes e_7$	{123456, 123568, 1345, 1358, 24589, 259, 45689, 569}
941:52	$0, 0, 0, 0, 0, \frac{14}{51}e^{12}, \frac{2}{51}\sqrt{91}e^{13}, \frac{2}{51}\sqrt{42}e^{34},$ $\frac{2}{51}\sqrt{91}e^{15} + \frac{2}{51}\sqrt{42}e^{26}$	$(-\frac{14}{51}, \frac{2}{17}, \frac{4}{17}, -\frac{1}{51}, \frac{4}{17}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{2}{51}\sqrt{182}e^3 \otimes e_9 + \frac{4}{51}\sqrt{35}e^5 \otimes e_7$	{123456, 123568, 1345, 1358, 24589, 259, 45689, 569}
941:52	$0, 0, 0, 0, 0, \frac{12}{1531}\sqrt{2298}e^{12}, \frac{2}{1531}\sqrt{70089}e^{13}, \frac{2}{1531}\sqrt{25278}e^{34},$ $\frac{1}{1531}\sqrt{100346}e^{15} + \frac{1}{1531}\sqrt{273462}e^{26}$	$(\frac{95}{1531}, \frac{151}{1531}, -\frac{327}{1531}, \frac{39}{1531}, \frac{302}{1531}, \frac{246}{1531}, -\frac{232}{1531}, -\frac{288}{1531}, \frac{397}{1531})$ $+ \frac{1}{1531}\sqrt{452706}e^1 \otimes e_8 + \frac{1}{1531}\sqrt{589054}e^2 \otimes e_7$	{123459, 15679, 24568, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:52	$0, 0, 0, 0, 0, \frac{4}{1433}\sqrt{46371e^{12}}, \frac{1}{1433}\sqrt{242034e^{13}}, \frac{26}{1433}\sqrt{1479e^{34}},$ $\frac{6}{1433}\sqrt{21489e^{15}} + \frac{2}{1433}\sqrt{15834e^{26}}$	$(\frac{656}{1433}, -\frac{42}{1433}, -\frac{291}{1433}, -\frac{184}{1433}, -\frac{84}{1433}, \frac{614}{1433}, \frac{365}{1433}, -\frac{475}{1433}, \frac{572}{1433})$ $+ \frac{5}{1433}\sqrt{106314e^1} \otimes e_8$	{12345, 1257, 13456, 1567, 2356789, 245689, 35789, 4589}
941:52	$0, 0, 0, 0, 0, \frac{1}{1937}\sqrt{114134e^{12}}, \frac{2}{1937}\sqrt{4213e^{13}}, \frac{1}{1937}\sqrt{500198e^{34}},$ $\frac{2}{1937}\sqrt{125241e^{15}} + \frac{2}{1937}\sqrt{27959e^{26}}$	$(-\frac{2}{13}, \frac{188}{1937}, \frac{461}{1937}, -\frac{36}{149}, \frac{376}{1937}, -\frac{110}{1937}, \frac{163}{1937}, -\frac{7}{1937}, \frac{6}{149})$ $+ \frac{1}{149}\sqrt{3830e^5} \otimes e_8 + \frac{1}{1937}\sqrt{694762e^3} \otimes e_9$	{1234567, 13457, 2579, 5679}
941:52	$0, 0, 0, 0, 0, \frac{2}{4113}\sqrt{536038e^{12}}, \frac{2}{4113}\sqrt{140438e^{13}}, \frac{4}{4113}\sqrt{77142e^{34}},$ $\frac{230}{4113}\sqrt{43e^{15}} + \frac{2}{4113}\sqrt{331315e^{26}}$	$(\frac{1084}{4113}, -\frac{149}{1371}, -\frac{1160}{4113}, \frac{634}{1371}, -\frac{298}{1371}, \frac{637}{4113}, -\frac{76}{4113}, \frac{742}{4113}, \frac{190}{4113})$ $+ \frac{2}{1371}\sqrt{208679e^1} \otimes e_5 + \frac{4}{4113}\sqrt{441094e^4} \otimes e_7$	{235678, 24568, 3578, 458}
941:52	$0, 0, 0, 0, 0, \frac{2}{51}\sqrt{19e^{12}}, \frac{2}{51}\sqrt{399e^{13}}, \frac{1}{51}\sqrt{1406e^{34}},$ $\frac{4}{51}\sqrt{19e^{15}} + \frac{2}{51}\sqrt{114e^{26}}$	$(-\frac{4}{153}, \frac{2}{17}, -\frac{1}{3}, \frac{116}{153}, \frac{4}{17}, \frac{14}{153}, -\frac{55}{153}, \frac{65}{153}, \frac{32}{153})$ $+ \frac{5}{51}\sqrt{190e^4} \otimes e_7$	{12346, 1267, 134, 17, 23789, 2489, 36789, 4689}
941:52	$0, 0, 0, 0, 0, \frac{56}{3963}\sqrt{42e^{12}}, \frac{28}{3963}\sqrt{65e^{13}}, \frac{28}{1321}\sqrt{114e^{34}},$ $\frac{364}{3963}\sqrt{7e^{15}} + \frac{28}{3963}\sqrt{181e^{26}}$	$(\frac{112}{1321}, -\frac{14}{3963}, -\frac{252}{1321}, \frac{700}{3963}, -\frac{28}{3963}, \frac{322}{3963}, -\frac{140}{1321}, -\frac{56}{3963}, \frac{308}{3963})$ $+ \frac{28}{3963}\sqrt{1391e^4} \otimes e_9 + \frac{28}{3963}\sqrt{1417e^1} \otimes e_8 + \frac{56}{3963}\sqrt{205e^5} \otimes e_7$	{1279, 1679}
941:52	$0, 0, 0, 0, 0, \frac{1}{413}\sqrt{32010e^{12}}, \frac{2}{413}\sqrt{97e^{13}}, \frac{1}{413}\sqrt{18430e^{34}},$ $\frac{4}{413}\sqrt{970e^{15}} + \frac{11}{413}\sqrt{194e^{26}}$	$(\frac{13}{59}, -\frac{3}{413}, -\frac{7}{59}, -\frac{51}{413}, -\frac{6}{413}, \frac{88}{413}, \frac{6}{59}, -\frac{100}{413}, \frac{85}{413})$ $+ \frac{1}{413}\sqrt{46366e^2} \otimes e_8 + \frac{1}{413}\sqrt{6305e^1} \otimes e_5$	{23456, 2567, 358, 4578}
941:52	$0, 0, 0, 0, 0, \frac{14}{169}\sqrt{89e^{12}}, \frac{2}{169}\sqrt{4717e^{13}}, \frac{4}{169}\sqrt{178e^{34}},$ $\frac{2}{169}\sqrt{2759e^{15}} + \frac{4}{169}\sqrt{445e^{26}}$	$(\frac{98}{169}, -\frac{40}{169}, -\frac{16}{169}, \frac{37}{169}, -\frac{80}{169}, \frac{58}{169}, \frac{82}{169}, \frac{21}{169}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115e^1} \otimes e_5$	{2345678, 23567, 2456, 2568, 34578, 357, 45, 58}
941:52	$0, 0, 0, 0, 0, \frac{8}{1323}\sqrt{1111e^{12}}, \frac{101}{1323}\sqrt{66e^{13}}, \frac{2}{1323}\sqrt{301081e^{34}},$ $\frac{8}{1323}\sqrt{1326534e^{15}} + \frac{2}{1323}\sqrt{295526e^{26}}$	$(-\frac{64}{1323}, \frac{121}{441}, -\frac{41}{1323}, -\frac{344}{1323}, \frac{242}{441}, \frac{299}{1323}, -\frac{5}{63}, -\frac{55}{189}, \frac{662}{1323})$ $+ \frac{5}{441}\sqrt{11110e^5} \otimes e_8$	{1236789, 124689, 13789, 1489, 238, 2478, 368, 4678}
941:52	$0, 0, 0, 0, 0, \frac{3}{1307}\sqrt{22946e^{12}}, \frac{3}{1307}\sqrt{193402e^{13}}, \frac{1}{1307}\sqrt{337634e^{34}},$ $\frac{4}{1307}\sqrt{24585e^{15}} + \frac{2}{1307}\sqrt{93423e^{26}}$	$(-\frac{126}{1307}, \frac{171}{1307}, \frac{879}{1307}, -\frac{760}{1307}, \frac{342}{1307}, \frac{45}{1307}, \frac{753}{1307}, \frac{119}{1307}, \frac{216}{1307})$ $+ \frac{1}{1307}\sqrt{3556630e^3} \otimes e_4$	{1236, 12467, 13, 147, 2379, 249, 3679, 469}
941:52	$0, 0, 0, 0, 0, \frac{1}{741}\sqrt{22306e^{12}}, \frac{1}{2223}\sqrt{637482e^{13}}, \frac{4}{2223}\sqrt{41090e^{34}},$ $\frac{1}{2223}\sqrt{240670e^{15}} + \frac{1}{2223}\sqrt{459034e^{26}}$	$(-\frac{2}{13}, \frac{5}{741}, \frac{275}{2223}, \frac{40}{171}, \frac{10}{741}, -\frac{109}{741}, -\frac{67}{2223}, \frac{265}{741}, -\frac{8}{57})$ $+ \frac{1}{171}\sqrt{5870e^4} \otimes e_7 + \frac{1}{741}\sqrt{149098e^3} \otimes e_9$	{123456, 1345, 24589, 45689}
941:52	$0, 0, 0, 0, 0, \frac{2}{351}\sqrt{1099e^{12}}, \frac{2}{351}\sqrt{471e^{13}}, \frac{1}{351}\sqrt{37366e^{34}},$ $\frac{2}{351}\sqrt{6594e^{15}} + \frac{4}{351}\sqrt{314e^{26}}$	$(-\frac{28}{351}, \frac{22}{117}, -\frac{77}{351}, \frac{4}{27}, \frac{44}{117}, \frac{38}{351}, -\frac{35}{117}, -\frac{25}{351}, \frac{8}{27})$ $+ \frac{1}{117}\sqrt{4710e^4} \otimes e_7 + \frac{2}{117}\sqrt{1570e^5} \otimes e_8$	{1236789, 124689, 13789, 1489}
941:52	$0, 0, 0, 0, 0, \frac{90}{3509}\sqrt{23e^{12}}, \frac{9}{3509}\sqrt{1894e^{13}}, \frac{9}{3509}\sqrt{3274e^{34}},$ $\frac{18}{3509}\sqrt{22e^{15}} + \frac{9}{3509}\sqrt{167e^{26}}$	$(\frac{18}{319}, -\frac{27}{3509}, -\frac{333}{3509}, \frac{225}{3509}, -\frac{54}{3509}, \frac{171}{3509}, -\frac{135}{3509}, -\frac{108}{3509}, \frac{144}{3509})$ $+ \frac{18}{3509}\sqrt{1051e^2} \otimes e_8 + \frac{9}{3509}\sqrt{3010e^4} \otimes e_9 + \frac{9}{3509}\sqrt{910e^5} \otimes e_7$	{1356789, 4578}
941:52	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{70e^{12}}, \frac{5}{88}\sqrt{2e^{13}}, \frac{1}{44}\sqrt{130e^{34}},$ $\frac{5}{88}\sqrt{2e^{15}} + \frac{1}{44}\sqrt{130e^{26}}$	$(-\frac{5}{44}, \frac{7}{88}, \frac{7}{44}, -\frac{17}{88}, \frac{7}{44}, -\frac{3}{88}, \frac{1}{22}, -\frac{3}{88}, \frac{1}{22})$ $+ \frac{1}{44}\sqrt{190e^2} \otimes e_8 + \frac{1}{88}\sqrt{670e^3} \otimes e_9 - \frac{5}{88}\sqrt{6e^5} \otimes e_7$	{1279, 146789, 23467, 378}
941:52	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{70e^{12}}, \frac{5}{88}\sqrt{2e^{13}}, \frac{1}{44}\sqrt{130e^{34}},$ $\frac{5}{88}\sqrt{2e^{15}} + \frac{1}{44}\sqrt{130e^{26}}$	$(-\frac{5}{44}, \frac{7}{88}, \frac{7}{44}, -\frac{17}{88}, \frac{7}{44}, -\frac{3}{88}, \frac{1}{22}, -\frac{3}{88}, \frac{1}{22})$ $+ \frac{1}{44}\sqrt{190e^2} \otimes e_8 + \frac{1}{88}\sqrt{670e^3} \otimes e_9 + \frac{5}{88}\sqrt{6e^5} \otimes e_7$	{1279, 146789, 23467, 378}
941:52	$0, 0, 0, 0, 0, \frac{1}{1647}\sqrt{429710e^{12}}, \frac{4}{1647}\sqrt{2658e^{13}}, \frac{1}{1647}\sqrt{500590e^{34}},$ $\frac{4}{1647}\sqrt{13290e^{15}} + \frac{1}{1647}\sqrt{415534e^{26}}$	$(-\frac{11}{1647}, \frac{71}{549}, -\frac{331}{1647}, \frac{101}{1647}, \frac{142}{549}, \frac{202}{1647}, -\frac{38}{183}, -\frac{230}{1647}, \frac{415}{1647})$ $+ \frac{1}{549}\sqrt{96574e^2} \otimes e_8 + \frac{8}{1647}\sqrt{6645e^4} \otimes e_7$	{1356789, 145689, 23456, 2567}
941:52	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{69715e^{12}}, \frac{8}{3769}\sqrt{3431e^{13}}, \frac{2}{3769}\sqrt{110011e^{34}},$ $\frac{2}{3769}\sqrt{11023e^{15}} + \frac{6}{3769}\sqrt{9782e^{26}}$	$(\frac{3}{3769}, \frac{103}{3769}, -\frac{398}{3769}, \frac{355}{3769}, \frac{206}{3769}, \frac{106}{3769}, -\frac{395}{3769}, -\frac{43}{3769}, \frac{209}{3769})$ $+ \frac{2}{3769}\sqrt{109865e^4} \otimes e_9 + \frac{2}{3769}\sqrt{139211e^2} \otimes e_8$	{129, 136789, 2346, 478}
941:52	$0, 0, 0, 0, 0, \frac{19}{2495}\sqrt{222e^{12}}, \frac{304}{2495}\sqrt{3e^{13}}, \frac{19}{2495}\sqrt{930e^{34}},$ $\frac{38}{2495}\sqrt{118e^{15}} + \frac{456}{2495}\sqrt{2e^{26}}$	$(-\frac{494}{2495}, \frac{266}{2495}, \frac{399}{2495}, -\frac{228}{2495}, \frac{532}{2495}, -\frac{228}{2495}, -\frac{19}{499}, \frac{171}{2495}, \frac{38}{2495})$ $+ \frac{19}{2495}\sqrt{2022e^3} \otimes e_9 + \frac{38}{2495}\sqrt{358e^2} \otimes e_7 + \frac{57}{2495}\sqrt{118e^5} \otimes e_8$	{146789, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:52	$0, 0, 0, 0, 0, \frac{28}{1039}\sqrt{330}e^{12}, \frac{24}{1039}\sqrt{385}e^{13}, \frac{8}{1039}\sqrt{1155}e^{34},$ $\frac{40}{1039}\sqrt{77}e^{15} + \frac{12}{1039}\sqrt{2310}e^{26}$	$(-\frac{181}{1039}, \frac{253}{1039}, -\frac{126}{1039}, \frac{72}{1039}, \frac{506}{1039}, \frac{72}{1039}, -\frac{307}{1039}, -\frac{54}{1039}, \frac{325}{1039})$ $+ \frac{4}{1039}\sqrt{45010}e^2 \otimes e_7 + \frac{8}{1039}\sqrt{4515}e^5 \otimes e_8$	{123459, 15679, 256, 3457}
941:52	$0, 0, 0, 0, 0, \frac{2}{1969}\sqrt{32101}e^{12}, \frac{3}{1969}\sqrt{53274}e^{13}, \frac{2}{1969}\sqrt{94254}e^{34},$ $\frac{1969}{1969}\sqrt{186459}e^{15} + \frac{2}{1969}\sqrt{38931}e^{26}$	$(\frac{188}{1969}, \frac{224}{1969}, -\frac{423}{1969}, -\frac{72}{1969}, \frac{448}{1969}, \frac{412}{1969}, -\frac{235}{1969}, -\frac{45}{1969}, \frac{636}{1969})$ $+ \frac{2}{1969}\sqrt{269785}e^5 \otimes e_7 + \frac{5}{1969}\sqrt{53274}e^1 \otimes e_8$	{12345, 13456, 245689, 4589}
941:52	$0, 0, 0, 0, 0, \frac{2}{2101}\sqrt{145834}e^{12}, \frac{3}{2101}\sqrt{178698}e^{13}, \frac{2}{2101}\sqrt{104754}e^{34},$ $\frac{4}{2101}\sqrt{30810}e^{15} + \frac{1}{2101}\sqrt{47242}e^{26}$	$(-\frac{568}{2101}, \frac{478}{2101}, \frac{497}{2101}, -\frac{530}{2101}, \frac{956}{2101}, -\frac{90}{2101}, -\frac{71}{2101}, -\frac{3}{2101}, \frac{388}{2101})$ $+ \frac{1}{2101}\sqrt{1858870}e^3 \otimes e_4 + \frac{5}{2101}\sqrt{84214}e^5 \otimes e_7$	{124679, 1479, 237, 367}
941:52	$0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358}e^{12}, \frac{1}{1109}\sqrt{97782}e^{13}, \frac{12}{1109}\sqrt{758}e^{34},$ $\frac{2}{1109}\sqrt{9854}e^{15} + \frac{3}{1109}\sqrt{32594}e^{26}$	$(-\frac{146}{1109}, \frac{92}{1109}, -\frac{141}{1109}, \frac{417}{1109}, \frac{184}{1109}, -\frac{54}{1109}, -\frac{287}{1109}, \frac{276}{1109}, \frac{38}{1109})$ $+ \frac{1}{1109}\sqrt{325182}e^4 \otimes e_9 + \frac{2}{1109}\sqrt{103846}e^2 \otimes e_7$	{123589, 15679, 24568, 3457}
941:52	$0, 0, 0, 0, 0, \frac{2}{4337}\sqrt{528878}e^{12}, \frac{2}{4337}\sqrt{1688734}e^{13}, \frac{4}{4337}\sqrt{108226}e^{34},$ $\frac{2}{4337}\sqrt{734099}e^{15} + \frac{2}{4337}\sqrt{374707}e^{26}$	$(\frac{1036}{4337}, -\frac{503}{4337}, \frac{1000}{4337}, -\frac{1042}{4337}, -\frac{1006}{4337}, \frac{533}{4337}, \frac{2036}{4337}, -\frac{42}{4337}, \frac{30}{4337})$ $+ \frac{14}{4337}\sqrt{43903}e^1 \otimes e_5 + \frac{4}{4337}\sqrt{471702}e^3 \otimes e_4$	{23567, 2456, 357, 45}
941:52	$0, 0, 0, 0, 0, \frac{20}{3839}\sqrt{3562}e^{12}, \frac{8}{3839}\sqrt{49530}e^{13}, \frac{24}{3839}\sqrt{1430}e^{34},$ $\frac{3839}{3839}\sqrt{33215}e^{15} + \frac{4}{3839}\sqrt{155090}e^{26}$	$(-\frac{851}{3839}, \frac{679}{3839}, \frac{490}{3839}, -\frac{50}{3839}, \frac{1358}{3839}, -\frac{172}{3839}, -\frac{361}{3839}, -\frac{60}{3839}, \frac{507}{3839})$ $+ \frac{4}{3839}\sqrt{288730}e^2 \otimes e_7 + \frac{3839}{3839}\sqrt{41665}e^3 \otimes e_4$	{12359, 145679, 2456, 357}
941:52	$0, 0, 0, 0, 0, \frac{8}{4091}\sqrt{10137}e^{12}, \frac{4}{4091}\sqrt{27435}e^{13}, \frac{4}{4091}\sqrt{135966}e^{34},$ $\frac{12}{4091}\sqrt{12307}e^{15} + \frac{4}{4091}\sqrt{35061}e^{26}$	$(\frac{872}{4091}, -\frac{378}{4091}, -\frac{732}{4091}, \frac{860}{4091}, -\frac{756}{4091}, \frac{494}{4091}, \frac{140}{4091}, \frac{128}{4091}, \frac{116}{4091})$ $+ \frac{12}{4091}\sqrt{19499}e^4 \otimes e_9 + \frac{4}{4091}\sqrt{164517}e^1 \otimes e_8$	{129, 169, 24678, 478}
941:52	$0, 0, 0, 0, 0, \frac{4}{299}\sqrt{1870}e^{12}, \frac{4}{299}\sqrt{561}e^{13}, \frac{12}{299}\sqrt{187}e^{34},$ $\frac{4}{299}\sqrt{561}e^{15} + \frac{12}{299}\sqrt{187}e^{26}$	$(-\frac{2}{299}, \frac{55}{299}, -\frac{24}{299}, -\frac{57}{299}, \frac{110}{299}, \frac{53}{299}, -\frac{2}{299}, -\frac{81}{299}, \frac{108}{299})$ $+ \frac{4}{299}\sqrt{3774}e^2 \otimes e_8 + \frac{4}{299}\sqrt{595}e^5 \otimes e_7$	{1259, 145689, 23456, 358}
941:52	$0, 0, 0, 0, 0, \frac{1}{1771}\sqrt{336570}e^{12}, \frac{5}{1771}\sqrt{25890}e^{13}, \frac{1}{1771}\sqrt{447034}e^{34},$ $\frac{8}{1771}\sqrt{5178}e^{15} + \frac{2}{1771}\sqrt{2589}e^{26}$	$(\frac{390}{1771}, \frac{9}{1771}, \frac{195}{1771}, -\frac{668}{1771}, \frac{18}{1771}, \frac{57}{1771}, \frac{585}{1771}, -\frac{43}{1771}, \frac{408}{1771})$ $+ \frac{1}{1771}\sqrt{1068394}e^3 \otimes e_4 + \frac{2}{1771}\sqrt{406473}e^1 \otimes e_8$	{23678, 2468, 378, 48}
941:52	$0, 0, 0, 0, 0, \frac{2}{2299}\sqrt{380010}e^{12}, \frac{12}{2299}\sqrt{1673}e^{13}, \frac{4}{2299}\sqrt{80065}e^{34},$ $\frac{10}{2299}\sqrt{7170}e^{15} + \frac{2}{2299}\sqrt{359934}e^{26}$	$(\frac{3}{2299}, \frac{336}{2299}, \frac{168}{2299}, -\frac{788}{2299}, \frac{672}{2299}, \frac{339}{2299}, \frac{9}{2299}, -\frac{620}{2299}, \frac{675}{2299})$ $+ \frac{2}{2299}\sqrt{198370}e^3 \otimes e_4 + \frac{46}{2299}\sqrt{1434}e^2 \otimes e_8$	{1356789, 145689, 358, 4578}
941:52	$0, 0, 0, 0, 0, \frac{2}{679}\sqrt{43581}e^{12}, \frac{18}{679}\sqrt{597}e^{13}, \frac{8}{679}\sqrt{597}e^{34},$ $\frac{679}{679}\sqrt{43979}e^{15} + \frac{20}{679}\sqrt{597}e^{26}$	$(-\frac{142}{679}, \frac{160}{679}, -\frac{96}{679}, \frac{21}{679}, \frac{320}{679}, \frac{18}{679}, -\frac{34}{679}, \frac{51}{679}, \frac{178}{679})$ $+ \frac{4}{679}\sqrt{28855}e^2 \otimes e_7$	{1234589, 12359, 145679, 156789, 2456, 2568, 34578, 357}
941:52	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1349}e^{12}, \frac{2}{131}\sqrt{2769}e^{13}, \frac{2}{131}\sqrt{426}e^{34},$ $\frac{131}{131}\sqrt{2769}e^{15} + \frac{2}{131}\sqrt{426}e^{26}$	$(-\frac{38}{131}, \frac{46}{131}, -\frac{12}{131}, \frac{27}{131}, \frac{92}{131}, \frac{8}{131}, -\frac{50}{131}, \frac{15}{131}, \frac{54}{131})$ $+ \frac{2}{131}\sqrt{7810}e^5 \otimes e_7$	{124679, 126789, 1479, 1789, 23478, 237, 34678, 367}
941:52	$0, 0, 0, 0, 0, \frac{4}{4465}\sqrt{6335}e^{12}, \frac{2}{4465}\sqrt{192041}e^{13}, \frac{2}{4465}\sqrt{333402}e^{34},$ $\frac{6}{4465}\sqrt{36562}e^{15} + \frac{4}{4465}\sqrt{9593}e^{26}$	$(-\frac{56}{893}, \frac{53}{893}, -\frac{444}{4465}, \frac{612}{4465}, \frac{106}{893}, -\frac{3}{893}, -\frac{724}{4465}, \frac{168}{4465}, \frac{50}{893})$ $+ \frac{2}{4465}\sqrt{363991}e^5 \otimes e_8 + \frac{2}{4465}\sqrt{383177}e^4 \otimes e_9$	{1234567, 13457, 2579, 5679}
941:52	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{546}e^{12}, \frac{1}{103}\sqrt{2226}e^{13}, \frac{2}{103}\sqrt{273}e^{34},$ $\frac{4}{103}\sqrt{21}e^{15} + \frac{1}{103}\sqrt{1722}e^{26}$	$(\frac{13}{103}, -\frac{29}{206}, \frac{26}{103}, -\frac{1}{206}, -\frac{29}{103}, -\frac{3}{206}, \frac{39}{103}, \frac{51}{206}, -\frac{16}{103})$ $+ \frac{15}{103}\sqrt{14}e^1 \otimes e_5 + \frac{2}{103}\sqrt{1113}e^3 \otimes e_9$	{124789, 1279, 146789, 1679}
941:52	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{2}e^{12}, \frac{1}{13}\sqrt{2}e^{13}, \frac{2}{13}\sqrt{2}e^{34},$ $\frac{1}{13}\sqrt{6}e^{15} + \frac{1}{13}\sqrt{2}e^{26}$	$(-\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, 0, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+ \frac{1}{13}\sqrt{10}e^3 \otimes e_9 + \frac{1}{13}\sqrt{6}e^4 \otimes e_7 + \frac{2}{13}\sqrt{2}e^5 \otimes e_8$	{123456, 1345}
941:52	$0, 0, 0, 0, 0, \frac{1}{399}\sqrt{582}e^{12}, \frac{2}{399}\sqrt{357}e^{13}, \frac{2}{133}\sqrt{47}e^{34},$ $\frac{1}{57}\sqrt{42}e^{15} + \frac{2}{399}\sqrt{129}e^{26}$	$(\frac{5}{133}, -\frac{1}{133}, -\frac{1}{19}, \frac{4}{133}, -\frac{2}{133}, \frac{4}{133}, -\frac{2}{133}, -\frac{3}{133}, \frac{3}{133})$ $+ \frac{1}{399}\sqrt{1254}e^2 \otimes e_7 + \frac{1}{399}\sqrt{1626}e^4 \otimes e_9 + \frac{2}{399}\sqrt{471}e^5 \otimes e_8$	{1236789, 2478}
941:52	$0, 0, 0, 0, 0, \frac{580}{2239}\sqrt{2}e^{12}, \frac{87}{2239}\sqrt{42}e^{13}, \frac{348}{2239}\sqrt{5}e^{34},$ $\frac{116}{2239}\sqrt{15}e^{15} + \frac{29}{2239}\sqrt{926}e^{26}$	$(-\frac{232}{2239}, \frac{406}{2239}, \frac{203}{2239}, -\frac{638}{2239}, \frac{812}{2239}, \frac{174}{2239}, -\frac{29}{2239}, -\frac{435}{2239}, \frac{580}{2239})$ $+ \frac{116}{2239}\sqrt{129}e^2 \otimes e_8 + \frac{29}{2239}\sqrt{1030}e^3 \otimes e_4 + \frac{29}{2239}\sqrt{910}e^5 \otimes e_7$	{135689, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:52	$0, 0, 0, 0, 0, \frac{8}{659}\sqrt{355}e^{12}, \frac{40}{659}e^{13}, \frac{4}{659}\sqrt{2230}e^{34},$ $\frac{40}{659}e^{15} + \frac{4}{659}\sqrt{2230}e^{26}$	$(-\frac{50}{659}, \frac{41}{659}, \frac{112}{659}, -\frac{151}{659}, \frac{82}{659}, -\frac{9}{659}, \frac{62}{659}, -\frac{39}{659}, \frac{32}{659})$ $+\frac{4}{659}\sqrt{2530}e^3 \otimes e_9 + \frac{8}{659}\sqrt{835}e^2 \otimes e_8$	{1259, 145689, 23456, 358}
941:52	$0, 0, 0, 0, 0, \frac{2}{4457}\sqrt{303149}e^{12}, \frac{2}{4457}\sqrt{349153}e^{13}, \frac{4}{4457}\sqrt{23002}e^{34},$ $\frac{2}{4457}\sqrt{291431}e^{15} + \frac{8}{4457}\sqrt{18445}e^{26}$	$(\frac{394}{4457}, -\frac{20}{4457}, -\frac{848}{4457}, \frac{761}{4457}, -\frac{40}{4457}, \frac{374}{4457}, -\frac{454}{4457}, -\frac{87}{4457}, \frac{354}{4457})$ $+\frac{40}{4457}\sqrt{1302}e^2 \otimes e_7 + \frac{4}{4457}\sqrt{93310}e^1 \otimes e_5$	{2456, 2568, 34578, 357}
941:52	$0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{34646}e^{12}, \frac{1}{1397}\sqrt{527842}e^{13}, \frac{4}{1397}\sqrt{70311}e^{34},$ $\frac{4}{1397}\sqrt{56045}e^{15} + \frac{1}{1397}\sqrt{650122}e^{26}$	$(\frac{34}{1397}, -\frac{104}{1397}, -\frac{61}{1397}, \frac{845}{1397}, -\frac{208}{1397}, -\frac{70}{1397}, -\frac{27}{1397}, \frac{784}{1397}, -\frac{174}{1397})$ $+\frac{1}{1397}\sqrt{2374270}e^4 \otimes e_9$	{123789, 129, 136789, 169, 2346, 24678, 34, 478}
941:52	$0, 0, 0, 0, 0, \frac{32}{1203}e^{12}, \frac{4}{1203}\sqrt{910}e^{13}, \frac{8}{1203}\sqrt{231}e^{34},$ $\frac{4}{1203}\sqrt{1222}e^{15} + \frac{40}{1203}\sqrt{3}e^{26}$	$(-\frac{32}{1203}, \frac{12}{401}, \frac{24}{401}, -\frac{136}{1203}, \frac{24}{401}, \frac{4}{1203}, \frac{40}{1203}, -\frac{64}{1203}, \frac{40}{1203})$ $-\frac{4}{1203}\sqrt{1130}e^5 \otimes e_7 + \frac{4}{1203}\sqrt{1742}e^3 \otimes e_9 + \frac{8}{1203}\sqrt{390}e^1 \otimes e_8$	{123456, 1345, 24589, 45689}
941:52	$0, 0, 0, 0, 0, \frac{32}{1203}e^{12}, \frac{4}{1203}\sqrt{910}e^{13}, \frac{8}{1203}\sqrt{231}e^{34},$ $\frac{4}{1203}\sqrt{1222}e^{15} + \frac{40}{1203}\sqrt{3}e^{26}$	$(-\frac{32}{1203}, \frac{12}{401}, \frac{24}{401}, -\frac{136}{1203}, \frac{24}{401}, \frac{4}{1203}, \frac{40}{1203}, -\frac{64}{1203}, \frac{40}{1203})$ $+\frac{4}{1203}\sqrt{1130}e^5 \otimes e_7 + \frac{4}{1203}\sqrt{1742}e^3 \otimes e_9 + \frac{8}{1203}\sqrt{390}e^1 \otimes e_8$	{123456, 1345, 24589, 45689}
941:52	$0, 0, 0, 0, 0, \frac{2}{143}\sqrt{561}e^{12}, \frac{2}{143}\sqrt{1479}e^{13}, \frac{2}{143}\sqrt{1938}e^{34},$ $\frac{2}{143}\sqrt{1479}e^{15} + \frac{2}{143}\sqrt{1938}e^{26}$	$(-\frac{2}{13}, -\frac{2}{143}, \frac{76}{143}, -\frac{1}{11}, -\frac{4}{143}, \frac{24}{143}, \frac{54}{143}, \frac{63}{143}, -\frac{2}{11})$ $+\frac{2}{143}\sqrt{6018}e^3 \otimes e_9$	{123456, 123568, 1345, 1358, 24589, 259, 45689, 569}
941:53	$0, 0, 0, 0, 0, \frac{12}{3101}\sqrt{2145}e^{12}, \frac{6}{3101}\sqrt{2145}e^{13}, \frac{132}{3101}\sqrt{69}e^{34},$ $\frac{18}{3101}\sqrt{1001}e^{16} + \frac{12}{3101}\sqrt{7062}e^{25}$	$(-\frac{258}{3101}, \frac{585}{3101}, \frac{663}{3101}, -\frac{96}{443}, -\frac{516}{3101}, \frac{327}{3101}, \frac{405}{3101}, -\frac{9}{3101}, \frac{69}{3101})$ $+\frac{60}{3101}\sqrt{462}e^3 \otimes e_9 + \frac{6}{3101}\sqrt{44913}e^2 \otimes e_8$	{1279, 1368, 269, 378}
941:53	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{2046}e^{12}, \frac{4}{125}\sqrt{33}e^{13}, \frac{3}{125}\sqrt{286}e^{34},$ $\frac{1}{125}\sqrt{2046}e^{16} + \frac{4}{125}\sqrt{66}e^{25}$	$(\frac{3}{25}, -\frac{1}{125}, -\frac{33}{125}, \frac{3}{25}, \frac{14}{25}, -\frac{18}{125}, -\frac{18}{125}, \frac{29}{125})$ $+\frac{1}{125}\sqrt{4686}e^1 \otimes e_8 + \frac{4}{125}\sqrt{165}e^4 \otimes e_7$	{123459, 12579, 13456, 1567, 2356789, 245689, 3578, 458}
941:53	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{2046}e^{12}, \frac{4}{125}\sqrt{33}e^{13}, \frac{3}{125}\sqrt{286}e^{34},$ $\frac{1}{125}\sqrt{2046}e^{16} + \frac{4}{125}\sqrt{66}e^{25}$	$(\frac{3}{25}, -\frac{1}{125}, -\frac{33}{125}, \frac{3}{25}, \frac{6}{25}, \frac{14}{125}, -\frac{18}{125}, \frac{18}{125}, \frac{29}{125})$ $+\frac{1}{125}\sqrt{4686}e^1 \otimes e_8 - \frac{4}{125}\sqrt{165}e^4 \otimes e_7$	{123459, 12579, 13456, 1567, 2356789, 245689, 3578, 458}
941:53	$0, 0, 0, 0, 0, \frac{126}{2245}\sqrt{2}e^{12}, \frac{7}{2245}\sqrt{890}e^{13}, \frac{28}{449}\sqrt{3}e^{34},$ $\frac{21}{2245}\sqrt{66}e^{16} + \frac{7}{2245}\sqrt{1370}e^{25}$	$(\frac{14}{449}, -\frac{203}{2245}, -\frac{14}{2245}, \frac{21}{449}, \frac{28}{449}, -\frac{133}{2245}, \frac{56}{2245}, \frac{91}{2245}, -\frac{63}{2245})$ $+\frac{21}{2245}\sqrt{194}e^3 \otimes e_9 + \frac{7}{2245}\sqrt{1094}e^4 \otimes e_7 + \frac{7}{2245}\sqrt{1334}e^5 \otimes e_8$	{2489, 3678}
941:53	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{114}e^{12}, \frac{4}{81}\sqrt{57}e^{13}, \frac{19}{81}\sqrt{2}e^{34},$ $\frac{2}{81}\sqrt{19}e^{16} + \frac{4}{81}\sqrt{190}e^{25}$	$(-\frac{2}{27}, 0, \frac{7}{81}, \frac{20}{81}, -\frac{4}{27}, -\frac{2}{27}, \frac{1}{81}, \frac{1}{3}, -\frac{4}{27})$ $+\frac{1}{81}\sqrt{1178}e^4 \otimes e_7 + \frac{2}{81}\sqrt{399}e^3 \otimes e_9$	{123456, 1579, 23578, 45689}
941:53	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{430}e^{12}, \frac{10}{119}\sqrt{43}e^{13}, \frac{8}{119}\sqrt{129}e^{34},$ $\frac{2}{119}\sqrt{301}e^{16} + \frac{4}{119}\sqrt{258}e^{25}$	$(-\frac{2}{119}, \frac{55}{119}, -\frac{3}{119}, -\frac{4}{17}, -\frac{4}{119}, \frac{53}{119}, -\frac{5}{119}, -\frac{31}{119}, \frac{3}{7})$ $+\frac{6}{119}\sqrt{473}e^2 \otimes e_8$	{123479, 129, 13678, 1468, 23469, 2679, 38, 478}
941:53	$0, 0, 0, 0, 0, \frac{1}{1853}\sqrt{156570}e^{12}, \frac{2}{1853}\sqrt{38989}e^{13}, \frac{1}{1853}\sqrt{327262}e^{34},$ $\frac{10}{1853}\sqrt{307}e^{16} + \frac{14}{1853}\sqrt{2149}e^{25}$	$(\frac{126}{1853}, -\frac{256}{1853}, \frac{303}{1853}, -\frac{358}{1853}, \frac{252}{1853}, -\frac{130}{1853}, \frac{429}{1853}, -\frac{55}{1853}, -\frac{4}{1853})$ $+\frac{1}{1853}\sqrt{468482}e^5 \otimes e_8 + \frac{1}{1853}\sqrt{561810}e^3 \otimes e_9$	{123456, 1579, 23457, 569}
941:53	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{106}e^{12}, \frac{1}{48}\sqrt{1590}e^{13}, \frac{1}{48}\sqrt{1166}e^{34},$ $\frac{1}{24}\sqrt{106}e^{16} + \frac{1}{48}\sqrt{583}e^{25}$	$(\frac{1}{32}, \frac{7}{48}, -\frac{35}{96}, \frac{37}{48}, \frac{1}{16}, \frac{17}{96}, -\frac{1}{3}, \frac{13}{32}, \frac{5}{24})$ $+\frac{1}{48}\sqrt{4187}e^4 \otimes e_7$	{123469, 12679, 134, 17, 23789, 2489, 3678, 468}
941:53	$0, 0, 0, 0, 0, \frac{5}{702}\sqrt{4294}e^{12}, \frac{5}{117}\sqrt{57}e^{13}, \frac{5}{351}\sqrt{1121}e^{34},$ $\frac{5}{702}\sqrt{570}e^{16} + \frac{5}{702}\sqrt{551}e^{25}$	$(-\frac{5}{36}, \frac{140}{351}, -\frac{175}{1404}, \frac{145}{351}, -\frac{5}{18}, \frac{365}{1404}, -\frac{185}{702}, \frac{15}{52}, \frac{85}{702})$ $+\frac{35}{351}\sqrt{57}e^2 \otimes e_5 + \frac{5}{702}\sqrt{12293}e^4 \otimes e_7$	{13456, 1567, 3578, 458}
941:53	$0, 0, 0, 0, 0, \frac{5}{437}\sqrt{290}e^{12}, \frac{3}{437}\sqrt{6670}e^{13}, \frac{58}{437}\sqrt{5}e^{34},$ $\frac{1}{437}\sqrt{29290}e^{16} + \frac{1}{437}\sqrt{37410}e^{25}$	$(-\frac{48}{437}, \frac{157}{437}, \frac{60}{437}, -\frac{85}{437}, -\frac{96}{437}, \frac{109}{437}, \frac{12}{437}, -\frac{25}{437}, \frac{61}{437})$ $+\frac{2}{437}\sqrt{16530}e^2 \otimes e_7 + \frac{4}{437}\sqrt{3190}e^3 \otimes e_4$	{12369, 147, 249, 367}
941:53	$0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{1380670}e^{12}, \frac{1}{1139}\sqrt{576874}e^{13}, \frac{2}{1139}\sqrt{94323}e^{34},$ $\frac{1}{1139}\sqrt{527662}e^{16} + \frac{1}{1139}\sqrt{451110}e^{25}$	$(-\frac{284}{1139}, \frac{47}{67}, \frac{276}{1139}, \frac{65}{1139}, -\frac{568}{1139}, \frac{515}{1139}, -\frac{8}{1139}, \frac{341}{1139}, \frac{231}{1139})$ $+\frac{12}{1139}\sqrt{17771}e^2 \otimes e_5$	{134567, 135678, 14568, 156, 345, 358, 4578, 57}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:53	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{22078}e^{13}, \frac{38}{377}\sqrt{7}e^{34},$ $\frac{1}{377}\sqrt{17290}e^{16} + \frac{1}{377}\sqrt{39634}e^{25}$	$(\frac{24}{377}, \frac{73}{377}, -\frac{84}{377}, -\frac{1}{377}, \frac{48}{377}, \frac{97}{377}, -\frac{60}{377}, -\frac{85}{377}, \frac{121}{377})$ $+ \frac{6}{377}\sqrt{1330}e^2 \otimes e_7 + \frac{8}{377}\sqrt{665}e^5 \otimes e_8$	{123689, 1478, 2489, 3678}
941:53	$0, 0, 0, 0, 0, \frac{6}{1121}\sqrt{2838}e^{12}, \frac{4}{1121}\sqrt{11649}e^{13}, \frac{2}{1121}\sqrt{14718}e^{34},$ $\frac{6}{1121}\sqrt{2838}e^{16} + \frac{12}{1121}\sqrt{902}e^{25}$	$(\frac{105}{1121}, -\frac{68}{1121}, -\frac{27}{1121}, -\frac{159}{1121}, \frac{210}{1121}, \frac{37}{1121}, \frac{78}{1121}, -\frac{186}{1121}, \frac{142}{1121})$ $+ \frac{2}{1121}\sqrt{27654}e^3 \otimes e_4 + \frac{2}{1121}\sqrt{43890}e^5 \otimes e_7$	{124679, 147, 2379, 367}
941:53	$0, 0, 0, 0, 0, \frac{20}{323}\sqrt{14}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{28}{323}\sqrt{6}e^{34},$ $\frac{8}{323}\sqrt{231}e^{16} + \frac{8}{323}\sqrt{483}e^{25}$	$(\frac{31}{323}, \frac{40}{323}, -\frac{81}{323}, \frac{9}{323}, \frac{62}{323}, \frac{71}{323}, -\frac{50}{323}, -\frac{72}{323}, \frac{6}{19})$ $+ \frac{4}{323}\sqrt{1722}e^2 \otimes e_8 + \frac{8}{323}\sqrt{595}e^5 \otimes e_7$	{12679, 1478, 23479, 3678}
941:53	$0, 0, 0, 0, 0, \frac{1}{1145}\sqrt{66770}e^{12}, \frac{11}{1145}\sqrt{1214}e^{13}, \frac{1}{1145}\sqrt{280434}e^{34},$ $\frac{1}{1145}\sqrt{200310}e^{16} + \frac{6}{1145}\sqrt{6677}e^{25}$	$(-\frac{188}{1145}, \frac{231}{1145}, \frac{462}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{43}{1145}, \frac{274}{1145}, \frac{384}{1145}, -\frac{29}{229})$ $+ \frac{1}{1145}\sqrt{401834}e^2 \otimes e_5 + \frac{1}{1145}\sqrt{802454}e^3 \otimes e_9$	{124789, 1279, 24689, 269}
941:53	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{590}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{2}{71}\sqrt{177}e^{34},$ $\frac{1}{71}\sqrt{1770}e^{16} + \frac{3}{71}\sqrt{354}e^{25}$	$(-\frac{8}{71}, \frac{39}{71}, -\frac{12}{71}, \frac{17}{71}, -\frac{16}{71}, \frac{31}{71}, -\frac{20}{71}, \frac{5}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770}e^2 \otimes e_7$	{123458, 1235, 145679, 156789, 2456, 2568, 345789, 3579}
941:53	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{301}e^{12}, \frac{10}{119}\sqrt{43}e^{13}, \frac{8}{119}\sqrt{129}e^{34},$ $\frac{4}{119}\sqrt{430}e^{16} + \frac{4}{119}\sqrt{258}e^{25}$	$(-\frac{2}{119}, -\frac{11}{119}, -\frac{3}{119}, \frac{71}{119}, -\frac{4}{119}, -\frac{13}{119}, -\frac{5}{119}, \frac{4}{7}, -\frac{15}{119})$ $+ \frac{6}{119}\sqrt{473}e^4 \otimes e_9$	{123789, 129, 13467, 1468, 23689, 2679, 34, 478}
941:53	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{286}e^{12}, \frac{2}{25}\sqrt{13}e^{13}, \frac{3}{25}\sqrt{26}e^{34},$ $\frac{1}{25}\sqrt{286}e^{16} + \frac{2}{25}\sqrt{39}e^{25}$	$(\frac{1}{5}, -\frac{1}{25}, -\frac{25}{25}, -\frac{1}{5}, \frac{2}{5}, \frac{4}{25}, \frac{2}{25}, -\frac{8}{25}, \frac{9}{25})$ $+ \frac{1}{25}\sqrt{546}e^1 \otimes e_8$	{1234579, 1259, 134567, 156, 235689, 2456789, 358, 4578}
941:53	$0, 0, 0, 0, 0, \frac{8}{311}\sqrt{282}e^{12}, \frac{8}{311}\sqrt{303}e^{13}, \frac{20}{311}\sqrt{66}e^{34},$ $\frac{12}{311}\sqrt{170}e^{16} + \frac{24}{311}\sqrt{10}e^{25}$	$(-\frac{43}{311}, \frac{58}{311}, \frac{13}{311}, \frac{116}{311}, -\frac{86}{311}, \frac{15}{311}, -\frac{30}{311}, \frac{129}{311}, -\frac{28}{311})$ $+ \frac{4}{311}\sqrt{3066}e^4 \otimes e_9 + \frac{8}{311}\sqrt{465}e^2 \otimes e_5$	{123789, 129, 23689, 2679}
941:53	$0, 0, 0, 0, 0, \frac{8}{323}\sqrt{231}e^{12}, \frac{24}{323}\sqrt{35}e^{13}, \frac{28}{323}\sqrt{6}e^{34},$ $\frac{20}{323}\sqrt{14}e^{16} + \frac{8}{323}\sqrt{483}e^{25}$	$(\frac{31}{323}, -\frac{42}{323}, -\frac{81}{323}, \frac{132}{323}, \frac{62}{323}, -\frac{11}{323}, -\frac{50}{323}, \frac{3}{19}, \frac{20}{323})$ $+ \frac{4}{323}\sqrt{1722}e^4 \otimes e_9 + \frac{8}{323}\sqrt{595}e^5 \otimes e_7$	{12679, 1478, 23789, 3467}
941:53	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{26605}e^{12}, \frac{2}{3769}\sqrt{159317}e^{13}, \frac{2}{3769}\sqrt{446338}e^{34},$ $\frac{2}{3769}\sqrt{165890}e^{16} + \frac{4}{3769}\sqrt{86701}e^{25}$	$(\frac{408}{3769}, -\frac{679}{3769}, -\frac{573}{3769}, \frac{763}{3769}, \frac{816}{3769}, -\frac{271}{3769}, -\frac{165}{3769}, \frac{190}{3769}, \frac{137}{3769})$ $+ \frac{4}{3769}\sqrt{123635}e^5 \otimes e_8 + \frac{6}{3769}\sqrt{64165}e^4 \otimes e_9$	{1234567, 159, 2345, 5679}
941:53	$0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{83166}e^{12}, \frac{1}{1475}\sqrt{35738}e^{13}, \frac{4}{1475}\sqrt{9519}e^{34},$ $\frac{1}{1475}\sqrt{149966}e^{16} + \frac{2}{1475}\sqrt{7014}e^{25}$	$(\frac{14}{295}, -\frac{109}{1475}, \frac{198}{1475}, -\frac{1}{5}, \frac{28}{295}, -\frac{39}{1475}, \frac{268}{1475}, -\frac{97}{1475}, \frac{31}{1475})$ $+ \frac{2}{1475}\sqrt{59619}e^1 \otimes e_8 + \frac{4}{295}\sqrt{501}e^3 \otimes e_9$	{1279, 1346, 24689, 378}
941:53	$0, 0, 0, 0, 0, \frac{3}{455}\sqrt{82}e^{12}, \frac{6}{455}\sqrt{53}e^{13}, \frac{3}{91}\sqrt{6}e^{34},$ $\frac{6}{455}\sqrt{13}e^{16} + \frac{6}{455}\sqrt{87}e^{25}$	$(-\frac{6}{455}, \frac{24}{455}, \frac{3}{65}, -\frac{6}{65}, -\frac{12}{455}, \frac{18}{455}, \frac{3}{91}, -\frac{3}{65}, \frac{12}{455})$ $+ \frac{3}{35}\sqrt{2}e^3 \otimes e_9 + \frac{3}{455}\sqrt{258}e^5 \otimes e_8 + \frac{6}{455}\sqrt{62}e^2 \otimes e_7$	{2489, 3678}
941:53	$0, 0, 0, 0, 0, \frac{2}{231}\sqrt{30}e^{12}, \frac{4}{231}\sqrt{3}e^{13}, \frac{2}{77}\sqrt{82}e^{34},$ $\frac{4}{231}\sqrt{30}e^{16} + \frac{2}{231}\sqrt{894}e^{25}$	$(\frac{4}{77}, -\frac{2}{77}, -\frac{2}{11}, \frac{2}{11}, \frac{8}{77}, \frac{2}{77}, -\frac{10}{77}, 0, \frac{6}{77})$ $+ \frac{16}{231}\sqrt{15}e^5 \otimes e_8 + \frac{2}{231}\sqrt{570}e^2 \otimes e_7 + \frac{4}{231}\sqrt{255}e^4 \otimes e_9$	{2345, 5679}
941:53	$0, 0, 0, 0, 0, \frac{1}{437}\sqrt{35422}e^{12}, \frac{2}{437}\sqrt{2581}e^{13}, \frac{3}{437}\sqrt{2314}e^{34},$ $\frac{1}{437}\sqrt{26878}e^{16} + \frac{2}{437}\sqrt{4539}e^{25}$	$(\frac{1}{437}, \frac{91}{437}, -\frac{15}{437}, -\frac{73}{437}, \frac{2}{437}, \frac{4}{437}, -\frac{14}{437}, -\frac{88}{437}, \frac{93}{437})$ $+ \frac{12}{437}\sqrt{178}e^2 \otimes e_5 + \frac{1}{437}\sqrt{44322}e^1 \otimes e_8$	{134567, 156, 358, 4578}
941:53	$0, 0, 0, 0, 0, \frac{30}{3911}\sqrt{14}e^{12}, \frac{6}{3911}\sqrt{670}e^{13}, \frac{24}{3911}\sqrt{11}e^{34},$ $\frac{36}{3911}\sqrt{6}e^{16} + \frac{123}{3911}\sqrt{2}e^{25}$	$(\frac{42}{3911}, -\frac{60}{3911}, \frac{33}{3911}, -\frac{102}{3911}, \frac{84}{3911}, -\frac{18}{3911}, \frac{75}{3911}, -\frac{69}{3911}, \frac{24}{3911})$ $+ \frac{15}{3911}\sqrt{118}e^3 \otimes e_9 + \frac{3}{3911}\sqrt{1342}e^2 \otimes e_8 + \frac{3}{3911}\sqrt{3030}e^5 \otimes e_7$	{12679, 3678}
941:53	$0, 0, 0, 0, 0, \frac{2}{343}\sqrt{12805}e^{12}, \frac{2}{343}\sqrt{21867}e^{13}, \frac{3}{343}\sqrt{2758}e^{34},$ $\frac{2}{343}\sqrt{12805}e^{16} + \frac{1}{343}\sqrt{79194}e^{25}$	$(\frac{71}{343}, -\frac{38}{343}, -\frac{18}{49}, \frac{96}{343}, \frac{142}{343}, \frac{33}{343}, -\frac{55}{343}, -\frac{30}{343}, \frac{104}{343})$ $+ \frac{2}{343}\sqrt{30535}e^5 \otimes e_7$	{124679, 126789, 147, 178, 234789, 2379, 34678, 367}
941:53	$0, 0, 0, 0, 0, \frac{45}{397}\sqrt{2}e^{12}, \frac{9}{397}\sqrt{274}e^{13}, \frac{18}{397}\sqrt{15}e^{34},$ $\frac{9}{397}\sqrt{38}e^{16} + \frac{63}{397}\sqrt{6}e^{25}$	$(-\frac{54}{397}, \frac{87}{397}, \frac{60}{397}, \frac{9}{397}, -\frac{108}{397}, \frac{33}{397}, \frac{6}{397}, \frac{69}{397}, -\frac{21}{397})$ $+ \frac{18}{397}\sqrt{85}e^2 \otimes e_7 + \frac{18}{397}\sqrt{94}e^3 \otimes e_9$	{2489, 29, 3467, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:53	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{138}e^{12}, \frac{3}{19}\sqrt{46}e^{13}, \frac{2}{19}\sqrt{23}e^{34},$ $\frac{1}{19}\sqrt{138}e^{16} + \frac{1}{19}\sqrt{138}e^{25}$	$(0, \frac{3}{19}, \frac{12}{19}, -\frac{11}{19}, 0, \frac{3}{19}, \frac{12}{19}, \frac{1}{19}, \frac{3}{19})$ $+ \frac{4}{19}\sqrt{46}e^3 \otimes e_4$	{12369, 124679, 13, 147, 2379, 249, 367, 46}
941:53	$0, 0, 0, 0, 0, \frac{4}{199}\sqrt{106}e^{12}, \frac{4}{199}\sqrt{61}e^{13}, \frac{12}{199}\sqrt{17}e^{34},$ $\frac{16}{199}\sqrt{10}e^{16} + \frac{4}{199}\sqrt{21}e^{25}$	$(\frac{31}{398}, -\frac{22}{199}, -\frac{51}{398}, \frac{25}{199}, \frac{31}{199}, -\frac{13}{398}, -\frac{10}{199}, -\frac{1}{398}, \frac{9}{199})$ $+ \frac{36}{199}\sqrt{2}e^4 \otimes e_9 + \frac{4}{199}\sqrt{195}e^1 \otimes e_8$	{1259, 134567, 235689, 4578}
941:53	$0, 0, 0, 0, 0, \frac{2}{581}\sqrt{7170}e^{12}, \frac{2}{581}\sqrt{10277}e^{13}, \frac{1}{581}\sqrt{78870}e^{34},$ $\frac{2}{581}\sqrt{7170}e^{16} + \frac{4}{581}\sqrt{4541}e^{25}$	$(\frac{92}{581}, -\frac{34}{581}, -\frac{193}{581}, \frac{138}{581}, \frac{184}{581}, \frac{58}{581}, \frac{101}{581}, -\frac{55}{581}, \frac{150}{581})$ $+ \frac{1}{83}\sqrt{2390}e^4 \otimes e_7 + \frac{2}{581}\sqrt{33221}e^5 \otimes e_8$	{23789, 2489, 3678, 468}
941:53	$0, 0, 0, 0, 0, \frac{1}{1199}\sqrt{272910}e^{12}, \frac{1}{1199}\sqrt{494546}e^{13}, \frac{10}{1199}\sqrt{4962}e^{34},$ $\frac{1}{1199}\sqrt{276218}e^{16} + \frac{1}{1199}\sqrt{659946}e^{25}$	$(-\frac{98}{1199}, -\frac{31}{1199}, \frac{600}{1199}, -\frac{97}{1199}, -\frac{196}{1199}, -\frac{129}{1199}, \frac{502}{1199}, \frac{503}{1199}, -\frac{227}{1199})$ $+ \frac{2}{1199}\sqrt{411846}e^3 \otimes e_9$	{123456, 123568, 145789, 1579, 23457, 23578, 45689, 569}
941:53	$0, 0, 0, 0, 0, \frac{3}{361}\sqrt{3278}e^{12}, \frac{3}{361}\sqrt{894}e^{13}, \frac{2}{361}\sqrt{6109}e^{34},$ $\frac{3}{361}\sqrt{3278}e^{16} + \frac{1}{361}\sqrt{15198}e^{25}$	$(\frac{48}{361}, -\frac{3}{361}, \frac{24}{361}, -\frac{125}{361}, \frac{96}{361}, \frac{45}{361}, \frac{72}{361}, -\frac{101}{361}, \frac{93}{361})$ $+ \frac{2}{361}\sqrt{16986}e^1 \otimes e_8 + \frac{4}{361}\sqrt{1639}e^3 \otimes e_4$	{2356789, 245689, 3578, 458}
941:53	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{730}e^{12}, \frac{1}{77}\sqrt{146}e^{13}, \frac{2}{77}\sqrt{949}e^{34},$ $\frac{1}{77}\sqrt{730}e^{16} + \frac{1}{77}\sqrt{4234}e^{25}$	$(\frac{24}{77}, -\frac{1}{7}, -\frac{12}{77}, -\frac{13}{77}, \frac{48}{77}, \frac{13}{77}, \frac{12}{77}, -\frac{25}{77}, \frac{37}{77})$ $+ \frac{8}{77}\sqrt{146}e^5 \otimes e_8$	{1236789, 124689, 1378, 148, 2389, 24789, 368, 4678}
941:53	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{4}{139}\sqrt{77}e^{13}, \frac{2}{139}\sqrt{658}e^{34},$ $\frac{4}{139}\sqrt{70}e^{16} + \frac{18}{139}\sqrt{14}e^{25}$	$(-\frac{12}{139}, \frac{26}{139}, -\frac{18}{139}, \frac{58}{139}, -\frac{24}{139}, \frac{14}{139}, -\frac{30}{139}, \frac{40}{139}, \frac{2}{139})$ $+ \frac{2}{139}\sqrt{1610}e^2 \otimes e_7 + \frac{4}{139}\sqrt{455}e^4 \otimes e_9$	{12389, 14678, 269, 347}
941:53	$0, 0, 0, 0, 0, \frac{1}{1503}\sqrt{275890}e^{12}, \frac{1}{1503}\sqrt{3522}e^{13}, \frac{10}{1503}\sqrt{5870}e^{34},$ $\frac{1}{1503}\sqrt{3522}e^{16} + \frac{10}{1503}\sqrt{2935}e^{25}$	$(-\frac{13}{501}, \frac{473}{1503}, -\frac{331}{1503}, \frac{217}{1503}, -\frac{26}{501}, \frac{434}{1503}, -\frac{370}{1503}, -\frac{38}{501}, \frac{395}{1503})$ $+ \frac{1}{1503}\sqrt{639830}e^4 \otimes e_7 + \frac{2}{1503}\sqrt{230691}e^2 \otimes e_8$	{12345, 1257, 35789, 4589}
941:53	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{11}e^{12}, \frac{2}{25}\sqrt{33}e^{13}, \frac{1}{25}\sqrt{66}e^{34},$ $\frac{2}{25}\sqrt{11}e^{16} + \frac{1}{25}\sqrt{66}e^{25}$	$(\frac{1}{5}, -\frac{2}{25}, -\frac{6}{25}, 0, \frac{2}{5}, \frac{3}{25}, -\frac{1}{25}, -\frac{6}{25}, \frac{8}{25})$ $+ \frac{2}{25}\sqrt{55}e^5 \otimes e_7 + \frac{2}{25}\sqrt{66}e^1 \otimes e_8$	{1279, 167, 236789, 378}
941:53	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{55}e^{12}, \frac{2}{19}\sqrt{22}e^{13}, \frac{1}{19}\sqrt{55}e^{34},$ $\frac{1}{19}\sqrt{55}e^{16} + \frac{11}{19}e^{25}$	$(\frac{3}{19}, -\frac{1}{19}, \frac{3}{19}, -\frac{8}{19}, \frac{6}{19}, \frac{2}{19}, \frac{6}{19}, -\frac{5}{19}, \frac{5}{19})$ $+ \frac{1}{19}\sqrt{165}e^3 \otimes e_4 - \frac{1}{19}\sqrt{209}e^5 \otimes e_8$	{123689, 1246789, 138, 1478, 23789, 2489, 3678, 468}
941:53	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{55}e^{12}, \frac{2}{19}\sqrt{22}e^{13}, \frac{1}{19}\sqrt{55}e^{34},$ $\frac{1}{19}\sqrt{55}e^{16} + \frac{11}{19}e^{25}$	$(\frac{3}{19}, -\frac{1}{19}, \frac{3}{19}, -\frac{8}{19}, \frac{6}{19}, \frac{2}{19}, \frac{6}{19}, -\frac{5}{19}, \frac{5}{19})$ $+ \frac{1}{19}\sqrt{165}e^3 \otimes e_4 + \frac{1}{19}\sqrt{209}e^5 \otimes e_8$	{123689, 1246789, 138, 1478, 23789, 2489, 3678, 468}
941:53	$0, 0, 0, 0, 0, \frac{2}{103}\sqrt{66}e^{12}, \frac{3}{103}\sqrt{26}e^{13}, \frac{1}{103}\sqrt{282}e^{34},$ $\frac{2}{103}\sqrt{85}e^{16} + \frac{1}{103}\sqrt{174}e^{25}$	$(\frac{7}{206}, -\frac{9}{103}, \frac{3}{206}, 0, \frac{7}{103}, -\frac{11}{206}, \frac{5}{103}, \frac{3}{206}, -\frac{2}{103})$ $+ \frac{10}{103}\sqrt{2}e^5 \otimes e_7 + \frac{1}{103}\sqrt{330}e^1 \otimes e_8 + \frac{2}{103}\sqrt{57}e^4 \otimes e_9$	{134567, 4578}
941:53	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{5302}e^{12}, \frac{4}{323}\sqrt{1446}e^{13}, \frac{2}{323}\sqrt{482}e^{34},$ $\frac{1}{323}\sqrt{1687}e^{16} + \frac{1}{323}\sqrt{723}e^{25}$	$(-\frac{105}{646}, \frac{8}{19}, \frac{273}{646}, -\frac{11}{34}, -\frac{105}{323}, \frac{167}{646}, \frac{84}{323}, \frac{32}{323}, \frac{31}{323})$ $+ \frac{1}{19}\sqrt{241}e^3 \otimes e_4 + \frac{1}{323}\sqrt{68685}e^2 \otimes e_5$	{123, 1247, 2367, 246}
941:53	$0, 0, 0, 0, 0, \frac{6}{217}\sqrt{37}e^{12}, \frac{1}{217}\sqrt{1614}e^{13}, \frac{2}{217}\sqrt{219}e^{34},$ $\frac{6}{217}\sqrt{37}e^{16} + \frac{6}{217}\sqrt{38}e^{25}$	$(\frac{6}{217}, -\frac{16}{217}, \frac{3}{217}, 0, \frac{12}{217}, -\frac{10}{217}, \frac{9}{217}, \frac{3}{217}, -\frac{4}{217})$ $+ \frac{10}{217}\sqrt{15}e^5 \otimes e_7 + \frac{3}{217}\sqrt{106}e^1 \otimes e_8 + \frac{4}{217}\sqrt{51}e^3 \otimes e_4$	{2379, 367}
941:53	$0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{12765}e^{12}, \frac{48}{2071}\sqrt{37}e^{13}, \frac{40}{2071}\sqrt{703}e^{34},$ $\frac{24}{2071}\sqrt{222}e^{16} + \frac{8}{2071}\sqrt{14430}e^{25}$	$(-\frac{63}{2071}, \frac{726}{2071}, \frac{363}{2071}, -\frac{821}{2071}, \frac{126}{2071}, \frac{663}{2071}, \frac{300}{2071}, -\frac{458}{2071}, \frac{600}{2071})$ $+ \frac{24}{2071}\sqrt{4921}e^2 \otimes e_8 + \frac{8}{2071}\sqrt{22570}e^3 \otimes e_4$	{135689, 1456789, 35789, 4589}
941:53	$0, 0, 0, 0, 0, \frac{3}{101}\sqrt{26}e^{12}, \frac{6}{101}\sqrt{7}e^{13}, \frac{3}{101}\sqrt{70}e^{34},$ $\frac{3}{101}\sqrt{26}e^{16} + \frac{15}{101}\sqrt{2}e^{25}$	$(-\frac{3}{101}, \frac{12}{101}, -\frac{12}{101}, \frac{15}{101}, -\frac{6}{101}, \frac{9}{101}, -\frac{15}{101}, \frac{3}{101}, \frac{6}{101})$ $+ \frac{3}{101}\sqrt{82}e^2 \otimes e_8 + \frac{3}{101}\sqrt{82}e^4 \otimes e_9 + \frac{6}{101}\sqrt{5}e^5 \otimes e_7$	{2679, 478}
941:53	$0, 0, 0, 0, 0, \frac{14}{1475}\sqrt{141}e^{12}, \frac{7}{1475}\sqrt{1158}e^{13}, \frac{14}{1475}\sqrt{51}e^{34},$ $\frac{14}{1475}\sqrt{41}e^{16} + \frac{28}{1475}\sqrt{69}e^{25}$	$(\frac{14}{295}, -\frac{168}{1475}, \frac{21}{1475}, 0, \frac{28}{295}, -\frac{98}{1475}, \frac{91}{1475}, \frac{21}{1475}, -\frac{28}{1475})$ $+ \frac{14}{1475}\sqrt{295}e^5 \otimes e_7 + \frac{28}{295}\sqrt{3}e^3 \otimes e_9 + \frac{7}{1475}\sqrt{366}e^1 \otimes e_8$	{12679, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:53	$0, 0, 0, 0, 0, \frac{18}{689}\sqrt{115}e^{12}, \frac{36}{689}\sqrt{53}e^{13}, \frac{18}{689}\sqrt{65}e^{34},$ $\frac{9}{689}\sqrt{467}e^{16} + \frac{90}{689}\sqrt{6}e^{25}$	$(\frac{63}{689}, -\frac{36}{689}, -\frac{18}{689}, -\frac{99}{689}, \frac{126}{689}, \frac{27}{689}, \frac{45}{689}, -\frac{9}{53}, \frac{90}{689})$ $+ \frac{9}{689}\sqrt{21}e^2 \otimes e_8 + \frac{9}{689}\sqrt{505}e^3 \otimes e_4 + \frac{9}{689}\sqrt{805}e^5 \otimes e_7$	{124679, 2379}
941:53	$0, 0, 0, 0, 0, \frac{14}{73}e^{12}, \frac{1}{73}\sqrt{238}e^{13}, \frac{2}{73}\sqrt{105}e^{34},$ $\frac{14}{73}e^{16} + \frac{1}{73}\sqrt{210}e^{25}$	$(-\frac{4}{73}, \frac{11}{73}, -\frac{6}{73}, \frac{10}{73}, -\frac{8}{73}, \frac{7}{73}, -\frac{10}{73}, \frac{4}{73}, \frac{3}{73})$ $+ \frac{1}{73}\sqrt{462}e^2 \otimes e_8 + \frac{1}{73}\sqrt{462}e^4 \otimes e_9$	{129, 1468, 2679, 478}
941:54	$0, 0, 0, 0, 0, \frac{2}{199}\sqrt{462}e^{12}, \frac{28}{199}\sqrt{5}e^{13}, \frac{20}{199}\sqrt{14}e^{14} + \frac{2}{199}\sqrt{2170}e^{25},$ $\frac{18}{199}\sqrt{14}e^{16}$	$(-\frac{45}{398}, \frac{18}{199}, -\frac{31}{398}, \frac{139}{398}, \frac{29}{199}, -\frac{9}{398}, -\frac{38}{199}, \frac{47}{199}, -\frac{27}{199})$ $+ \frac{2}{199}\sqrt{2590}e^2 \otimes e_7 + \frac{4}{199}\sqrt{609}e^5 \otimes e_9$	{123489, 145678, 2689, 3578}
941:54	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{13}e^{12}, \frac{1}{185}\sqrt{1790}e^{13}, \frac{2}{185}\sqrt{330}e^{14} + \frac{4}{185}\sqrt{85}e^{25},$ $\frac{1}{185}\sqrt{1290}e^{16}$	$(-\frac{1}{37}, \frac{3}{37}, -\frac{2}{37}, \frac{2}{37}, -\frac{2}{37}, \frac{2}{37}, -\frac{3}{37}, \frac{1}{37}, \frac{1}{37})$ $+ \frac{1}{185}\sqrt{1330}e^4 \otimes e_9 + \frac{1}{37}\sqrt{62}e^5 \otimes e_7 + \frac{6}{185}\sqrt{55}e^1 \otimes e_3$	{2369, 348}
941:54	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{9}{65}\sqrt{5}e^{13}, \frac{3}{65}\sqrt{31}e^{14} + \frac{6}{65}\sqrt{7}e^{25},$ $\frac{9}{65}\sqrt{2}e^{16}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{3}{65}, \frac{3}{65}, -\frac{12}{65})$ $+ \frac{3}{65}\sqrt{14}e^5 \otimes e_9 - \frac{3}{65}\sqrt{47}e^4 \otimes e_7 + \frac{3}{65}\sqrt{61}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:54	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{9}{65}\sqrt{5}e^{13}, \frac{3}{65}\sqrt{31}e^{14} + \frac{6}{65}\sqrt{7}e^{25},$ $\frac{9}{65}\sqrt{2}e^{16}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{3}{65}, \frac{3}{65}, \frac{3}{65}, -\frac{12}{65})$ $+ \frac{3}{65}\sqrt{14}e^5 \otimes e_9 + \frac{3}{65}\sqrt{47}e^4 \otimes e_7 + \frac{3}{65}\sqrt{61}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:54	$0, 0, 0, 0, 0, \frac{5}{1157}\sqrt{2518}e^{12}, \frac{4}{1157}\sqrt{26439}e^{13},$ $\frac{4}{1157}\sqrt{54137}e^{14} + \frac{1}{1157}\sqrt{148562}e^{25}, \frac{1}{1157}\sqrt{823386}e^{16}$	$(-\frac{336}{1157}, \frac{226}{1157}, \frac{360}{1157}, \frac{813}{1157}, \frac{251}{1157}, -\frac{110}{1157}, \frac{24}{1157}, \frac{477}{1157}, -\frac{446}{1157})$ $+ \frac{1}{1157}\sqrt{2429870}e^4 \otimes e_9$	{1235789, 12589, 134567, 1456, 2369, 2679, 348, 478}
941:54	$0, 0, 0, 0, 0, \frac{252}{3461}\sqrt{10}e^{12}, \frac{36}{3461}\sqrt{2065}e^{13},$ $\frac{18}{3461}\sqrt{5691}e^{14} + \frac{18}{3461}\sqrt{6090}e^{25}, \frac{18}{3461}\sqrt{3178}e^{16}$	$(-\frac{756}{3461}, \frac{927}{3461}, \frac{549}{3461}, \frac{1158}{3461}, -\frac{525}{3461}, \frac{171}{3461}, -\frac{207}{3461}, \frac{402}{3461}, -\frac{585}{3461})$ $+ \frac{36}{3461}\sqrt{2422}e^3 \otimes e_9 + \frac{36}{3461}\sqrt{3031}e^2 \otimes e_7$	{24569, 2689, 347, 3578}
941:54	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{777}e^{12}, \frac{2}{159}\sqrt{959}e^{13}, \frac{2}{159}\sqrt{105}e^{14} + \frac{4}{159}\sqrt{427}e^{25},$ $\frac{2}{159}\sqrt{406}e^{16}$	$(-\frac{3}{53}, -\frac{35}{318}, \frac{59}{159}, \frac{4}{53}, \frac{41}{318}, -\frac{1}{6}, \frac{50}{159}, \frac{1}{53}, -\frac{71}{318})$ $+ \frac{2}{159}\sqrt{1841}e^5 \otimes e_9 + \frac{2}{159}\sqrt{2170}e^3 \otimes e_8$	{123456, 1349, 2357, 3679}
941:54	$0, 0, 0, 0, 0, \frac{4}{149}\sqrt{767}e^{12}, \frac{6}{149}\sqrt{177}e^{13}, \frac{2}{149}\sqrt{2183}e^{14} + \frac{2}{149}\sqrt{177}e^{25},$ $\frac{2}{149}\sqrt{3127}e^{16}$	$(\frac{54}{149}, -\frac{31}{149}, -\frac{3}{149}, -\frac{64}{149}, \frac{21}{149}, \frac{23}{149}, \frac{51}{149}, -\frac{10}{149}, \frac{77}{149})$ $+ \frac{10}{149}\sqrt{295}e^1 \otimes e_4$	{12359, 12579, 136, 167, 2345679, 24569, 347, 4}
941:54	$0, 0, 0, 0, 0, \frac{6}{215}\sqrt{7}e^{12}, \frac{3}{215}\sqrt{286}e^{13}, \frac{42}{215}e^{14} + \frac{27}{215}\sqrt{2}e^{25},$ $\frac{3}{215}\sqrt{170}e^{16}$	$(\frac{12}{215}, -\frac{33}{215}, \frac{9}{215}, -\frac{6}{215}, \frac{39}{215}, -\frac{21}{215}, \frac{21}{215}, \frac{6}{215}, -\frac{9}{215})$ $+ \frac{3}{215}\sqrt{278}e^1 \otimes e_4 + \frac{6}{215}\sqrt{65}e^5 \otimes e_7 + \frac{6}{215}\sqrt{66}e^3 \otimes e_9$	{24569, 347}
941:54	$0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{541994}e^{12}, \frac{1}{1147}\sqrt{780270}e^{13},$ $\frac{4}{1147}\sqrt{27687}e^{14} + \frac{2}{1147}\sqrt{168639}e^{25}, \frac{3}{1147}\sqrt{35238}e^{16}$	$(-\frac{55}{1147}, \frac{83}{1147}, \frac{22}{37}, -\frac{102}{1147}, -\frac{240}{1147}, \frac{28}{1147}, \frac{627}{1147}, -\frac{157}{1147}, -\frac{27}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^3 \otimes e_8$	{1234569, 126789, 134, 1578, 23579, 2489, 367, 4568}
941:54	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{1290}e^{12}, \frac{1}{89}\sqrt{301}e^{13}, \frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{25},$ $\frac{1}{89}\sqrt{989}e^{16}$	$(\frac{8}{89}, \frac{9}{178}, -\frac{35}{89}, \frac{16}{89}, \frac{39}{178}, \frac{25}{178}, -\frac{27}{89}, \frac{24}{89}, \frac{41}{178})$ $+ \frac{1}{89}\sqrt{2795}e^4 \otimes e_7 + \frac{1}{89}\sqrt{4085}e^1 \otimes e_3$	{1249, 1456, 2345689, 348}
941:54	$0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{780270}e^{12}, \frac{1}{1147}\sqrt{541994}e^{13},$ $\frac{4}{1147}\sqrt{27687}e^{14} + \frac{3}{1147}\sqrt{35238}e^{25}, \frac{3}{1147}\sqrt{168639}e^{16}$	$(\frac{339}{1147}, -\frac{114}{1147}, -\frac{500}{1147}, -\frac{102}{1147}, \frac{351}{1147}, \frac{225}{1147}, -\frac{161}{1147}, \frac{237}{1147}, \frac{564}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^1 \otimes e_3$	{1249, 12589, 1456, 168, 2345689, 2369, 348, 35}
941:54	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{902}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{113}\sqrt{1763}e^{14} + \frac{2}{113}\sqrt{82}e^{25},$ $\frac{1}{113}\sqrt{2337}e^{16}$	$(\frac{13}{113}, \frac{13}{113}, \frac{4}{113}, -\frac{28}{113}, -\frac{28}{113}, \frac{26}{113}, \frac{17}{113}, -\frac{15}{113}, \frac{39}{113})$ $+ \frac{1}{113}\sqrt{3485}e^2 \otimes e_5 + \frac{2}{113}\sqrt{1230}e^1 \otimes e_4$	{1239, 1279, 1356, 1567, 234679, 2469, 3457, 45}
941:54	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{902}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{113}\sqrt{1763}e^{14} + \frac{2}{113}\sqrt{82}e^{25},$ $\frac{1}{113}\sqrt{2337}e^{16}$	$(\frac{13}{113}, \frac{13}{113}, \frac{4}{113}, -\frac{28}{113}, -\frac{28}{113}, \frac{26}{113}, \frac{17}{113}, -\frac{15}{113}, \frac{39}{113})$ $- \frac{1}{113}\sqrt{3485}e^2 \otimes e_5 + \frac{2}{113}\sqrt{1230}e^1 \otimes e_4$	{1239, 1279, 1356, 1567, 234679, 2469, 3457, 45}
941:54	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{10}e^{12}, \frac{1}{33}\sqrt{130}e^{13}, \frac{10}{33}e^{14} + \frac{2}{33}\sqrt{15}e^{25},$ $\frac{1}{33}\sqrt{70}e^{16}$	$(-\frac{5}{33}, \frac{5}{33}, \frac{2}{11}, -\frac{4}{33}, 0, \frac{1}{33}, \frac{1}{33}, -\frac{5}{33})$ $+ \frac{1}{33}\sqrt{170}e^3 \otimes e_8 - \frac{2}{33}\sqrt{35}e^4 \otimes e_7$	{1234569, 126789, 134, 1578, 23579, 2489, 367, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:54	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{10}e^{12}, \frac{1}{33}\sqrt{130}e^{13}, \frac{10}{33}e^{14} + \frac{2}{33}\sqrt{15}e^{25},$ $\frac{1}{33}\sqrt{70}e^{16}$	$(-\frac{5}{33}, \frac{5}{33}, \frac{2}{11}, \frac{2}{11}, -\frac{4}{33}, 0, \frac{1}{33}, \frac{1}{33}, -\frac{5}{33})$ $+\frac{1}{33}\sqrt{170}e^3 \otimes e_8 + \frac{2}{33}\sqrt{35}e^4 \otimes e_7$	{1234569, 126789, 134, 1578, 23579, 2489, 367, 4568}
941:54	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{20822}e^{12}, \frac{1}{287}\sqrt{19027}e^{13},$ $\frac{1}{287}\sqrt{13283}e^{14} + \frac{4}{287}\sqrt{718}e^{25}, \frac{3}{287}\sqrt{2513}e^{16}$	$(-\frac{53}{287}, \frac{187}{287}, \frac{76}{287}, \frac{68}{287}, -\frac{172}{287}, \frac{134}{287}, \frac{23}{287}, \frac{15}{287}, \frac{81}{287})$ $+\frac{5}{287}\sqrt{6821}e^2 \otimes e_5$	{12379, 129, 13567, 156, 23469, 24679, 345, 457}
941:54	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{4}{283}\sqrt{935}e^{13}, \frac{2}{283}\sqrt{935}e^{14} + \frac{10}{283}\sqrt{187}e^{25},$ $\frac{2}{283}\sqrt{2805}e^{16}$	$(-\frac{63}{283}, \frac{99}{283}, -\frac{8}{283}, \frac{143}{283}, -\frac{19}{283}, \frac{36}{283}, -\frac{71}{283}, \frac{80}{283}, -\frac{27}{283})$ $+\frac{2}{283}\sqrt{12835}e^2 \otimes e_7 + \frac{8}{283}\sqrt{510}e^4 \otimes e_9$	{12359, 145678, 2689, 347}
941:54	$0, 0, 0, 0, 0, \frac{4}{297}\sqrt{314}e^{12}, \frac{2}{99}\sqrt{1570}e^{13}, \frac{2}{297}\sqrt{8007}e^{14} + \frac{2}{297}\sqrt{5809}e^{25},$ $\frac{2}{297}\sqrt{13502}e^{16}$	$(-\frac{65}{297}, \frac{23}{297}, \frac{23}{33}, \frac{103}{33}, \frac{5}{99}, -\frac{14}{99}, \frac{142}{297}, \frac{38}{297}, -\frac{107}{297})$ $+\frac{14}{297}\sqrt{785}e^3 \otimes e_9$	{123468, 12356, 145789, 179, 23457, 2378, 469, 5689}
941:54	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{26078}e^{12}, \frac{2}{571}\sqrt{60554}e^{13},$ $\frac{2}{571}\sqrt{22763}e^{14} + \frac{4}{571}\sqrt{14586}e^{25}, \frac{2}{571}\sqrt{6630}e^{16}$	$(\frac{58}{571}, -\frac{65}{571}, -\frac{193}{571}, \frac{184}{571}, \frac{307}{571}, -\frac{7}{571}, -\frac{135}{571}, \frac{242}{571}, \frac{51}{571})$ $+\frac{14}{571}\sqrt{2210}e^5 \otimes e_7$	{123569, 1246789, 13458, 17, 23789, 2459, 3467, 568}
941:54	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{69}e^{12}, \frac{3}{155}\sqrt{546}e^{13}, \frac{9}{155}\sqrt{70}e^{14} + \frac{6}{155}\sqrt{42}e^{25},$ $\frac{3}{155}\sqrt{258}e^{16}$	$(-\frac{33}{155}, \frac{72}{155}, -\frac{6}{155}, \frac{69}{155}, -\frac{36}{155}, \frac{39}{155}, -\frac{39}{155}, \frac{36}{155}, \frac{6}{155})$ $+\frac{3}{155}\sqrt{1434}e^2 \otimes e_5 + \frac{6}{155}\sqrt{471}e^4 \otimes e_7$	{1234, 134569, 2367, 3579}
941:54	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{51}e^{12}, \frac{1}{59}\sqrt{51}e^{13}, \frac{5}{59}\sqrt{51}e^{14} + \frac{12}{59}\sqrt{17}e^{25},$ $\frac{12}{59}\sqrt{17}e^{16}$	$(-\frac{1}{59}, -\frac{14}{59}, \frac{10}{59}, \frac{22}{59}, \frac{35}{59}, -\frac{15}{59}, \frac{9}{59}, \frac{21}{59}, -\frac{16}{59})$ $+\frac{3}{59}\sqrt{561}e^5 \otimes e_9$	{123567, 1256, 1379, 19, 2345, 2457, 3469, 4679}
941:54	$0, 0, 0, 0, 0, \frac{14}{1047}\sqrt{165}e^{12}, \frac{4}{1047}\sqrt{10815}e^{13},$ $\frac{14}{1047}\sqrt{15}e^{14} + \frac{2}{1047}\sqrt{39585}e^{25}, \frac{70}{349}e^{16}$	$(-\frac{133}{1047}, \frac{251}{1047}, \frac{58}{349}, \frac{97}{1047}, -\frac{287}{1047}, \frac{118}{1047}, \frac{41}{1047}, -\frac{12}{349}, -\frac{5}{349})$ $+\frac{1047}{1047}\sqrt{48405}e^2 \otimes e_7 + \frac{8}{1047}\sqrt{3255}e^3 \otimes e_8$	{123569, 14578, 289, 3467}
941:54	$0, 0, 0, 0, 0, \frac{30}{811}\sqrt{110}e^{12}, \frac{50}{811}\sqrt{22}e^{13}, \frac{10}{811}\sqrt{330}e^{14} + \frac{30}{811}\sqrt{110}e^{25},$ $\frac{20}{811}\sqrt{330}e^{16}$	$(\frac{165}{811}, -\frac{96}{811}, -\frac{335}{811}, \frac{69}{811}, \frac{330}{811}, \frac{69}{811}, -\frac{170}{811}, \frac{234}{811}, \frac{234}{811})$ $+\frac{10}{811}\sqrt{3270}e^5 \otimes e_7 + \frac{20}{811}\sqrt{955}e^1 \otimes e_3$	{12789, 1467, 2346789, 37}
941:54	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{30}e^{12}, \frac{6}{161}\sqrt{165}e^{13}, \frac{6}{161}\sqrt{111}e^{14} + \frac{18}{161}\sqrt{13}e^{25},$ $\frac{6}{161}\sqrt{69}e^{16}$	$(\frac{36}{161}, -\frac{33}{161}, -\frac{39}{161}, -\frac{18}{161}, \frac{51}{161}, \frac{3}{161}, -\frac{3}{161}, \frac{18}{161}, \frac{39}{161})$ $+\frac{6}{161}\sqrt{213}e^1 \otimes e_4 + \frac{6}{161}\sqrt{222}e^5 \otimes e_7$	{12359, 167, 24569, 347}
941:54	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{959}e^{12}, \frac{2}{159}\sqrt{777}e^{13}, \frac{2}{159}\sqrt{105}e^{14} + \frac{2}{159}\sqrt{406}e^{25},$ $\frac{4}{159}\sqrt{427}e^{16}$	$(\frac{22}{159}, -\frac{11}{53}, -\frac{34}{159}, \frac{4}{53}, \frac{67}{159}, -\frac{11}{159}, -\frac{4}{53}, \frac{34}{159}, \frac{11}{159})$ $+\frac{2}{159}\sqrt{1841}e^5 \otimes e_9 + \frac{2}{159}\sqrt{2170}e^1 \otimes e_3$	{1289, 1568, 234689, 3458}
941:54	$0, 0, 0, 0, 0, \frac{1}{761}\sqrt{71610}e^{12}, \frac{42}{761}\sqrt{110}e^{13},$ $\frac{1}{761}\sqrt{53130}e^{14} + \frac{11}{761}\sqrt{210}e^{25}, \frac{1}{761}\sqrt{22330}e^{16}$	$(-\frac{182}{761}, \frac{135}{761}, \frac{156}{761}, \frac{359}{761}, \frac{42}{761}, \frac{47}{761}, -\frac{26}{761}, \frac{177}{761}, -\frac{229}{761})$ $+\frac{1}{761}\sqrt{271810}e^4 \otimes e_7 + \frac{3}{761}\sqrt{28490}e^3 \otimes e_9$	{123456, 15789, 2357, 45689}
941:54	$0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{2553}e^{13}, \frac{1}{121}\sqrt{555}e^{14} + \frac{6}{121}\sqrt{111}e^{25},$ $\frac{1}{121}\sqrt{2590}e^{16}$	$(-\frac{13}{121}, -\frac{3}{242}, -\frac{3}{121}, \frac{58}{121}, \frac{93}{242}, -\frac{29}{242}, -\frac{16}{121}, \frac{45}{121}, -\frac{5}{22})$ $+\frac{1}{121}\sqrt{7030}e^4 \otimes e_7 + \frac{1}{121}\sqrt{8769}e^5 \otimes e_9$	{123456, 1349, 2357, 3679}
941:54	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{14}e^{13}, \frac{2}{35}\sqrt{14}e^{14} + \frac{4}{35}\sqrt{7}e^{25},$ $\frac{3}{35}\sqrt{14}e^{16}$	$(0, 0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+\frac{1}{35}\sqrt{154}e^2 \otimes e_7 + \frac{2}{35}\sqrt{42}e^5 \otimes e_9 + \frac{3}{35}\sqrt{14}e^1 \otimes e_3$	{145678, 3578}
941:54	$0, 0, 0, 0, 0, \frac{9}{1273}\sqrt{3178}e^{12}, \frac{36}{1273}\sqrt{203}e^{13},$ $\frac{36}{1273}\sqrt{301}e^{14} + \frac{9}{1273}\sqrt{3262}e^{25}, \frac{9}{1273}\sqrt{42}e^{16}$	$(-\frac{224}{1273}, \frac{122}{1273}, \frac{584}{1273}, \frac{241}{1273}, -\frac{105}{1273}, -\frac{102}{1273}, \frac{360}{1273}, \frac{17}{1273}, -\frac{326}{1273})$ $+\frac{36}{1273}\sqrt{602}e^3 \otimes e_8 + \frac{9}{1273}\sqrt{6398}e^4 \otimes e_9$	{123456, 15789, 248, 3679}
941:54	$0, 0, 0, 0, 0, \frac{88}{189}e^{12}, \frac{11}{63}\sqrt{5}e^{13}, \frac{11}{189}\sqrt{51}e^{14} + \frac{11}{189}\sqrt{10}e^{25},$ $\frac{11}{189}\sqrt{77}e^{16}$	$(-\frac{46}{189}, \frac{61}{189}, \frac{10}{21}, \frac{47}{189}, -\frac{20}{63}, \frac{5}{63}, \frac{44}{189}, \frac{1}{189}, -\frac{31}{189})$ $+\frac{11}{189}\sqrt{182}e^3 \otimes e_9 + \frac{11}{63}\sqrt{17}e^2 \otimes e_5$	{124789, 134568, 2689, 3578}
941:54	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{1406}e^{12}, \frac{1}{121}\sqrt{4551}e^{13}, \frac{1}{121}\sqrt{2553}e^{14} + \frac{6}{121}\sqrt{111}e^{25},$ $\frac{3}{121}\sqrt{185}e^{16}$	$(-\frac{13}{121}, \frac{29}{121}, \frac{58}{121}, -\frac{3}{121}, -\frac{45}{121}, \frac{16}{121}, \frac{45}{121}, -\frac{16}{121}, \frac{3}{121})$ $+\frac{1}{121}\sqrt{11026}e^3 \otimes e_8 + \frac{1}{121}\sqrt{4773}e^2 \otimes e_5$	{126789, 1578, 2489, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:54	$0, 0, 0, 0, 0, \frac{4}{965}\sqrt{5117}e^{12}, \frac{6}{965}\sqrt{3094}e^{13}, \frac{2}{965}\sqrt{27251}e^{14} + \frac{8}{965}\sqrt{357}e^{25},$ $\frac{16}{965}\sqrt{595}e^{16}$	$(\frac{72}{965}, -\frac{133}{965}, \frac{249}{965}, -\frac{166}{965}, \frac{39}{965}, -\frac{61}{965}, \frac{321}{965}, -\frac{94}{965}, \frac{11}{965})$ $+ \frac{12}{965}\sqrt{1309}e^3 \otimes e_9 + \frac{2}{965}\sqrt{57358}e^1 \otimes e_4$	{12579, 136, 24569, 347}
941:54	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{6}{25}e^{13}, \frac{6}{25}e^{14} + \frac{2}{25}\sqrt{6}e^{25}, \frac{4}{25}\sqrt{7}e^{16}$	$(\frac{2}{25}, -\frac{3}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{1}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{1}{25})$ $+ \frac{2}{25}\sqrt{33}e^5 \otimes e_9 + \frac{2}{25}\sqrt{42}e^1 \otimes e_3 + \frac{8}{25}e^4 \otimes e_7$	{234689, 3458}
941:54	$0, 0, 0, 0, 0, \frac{6}{43}\sqrt{13}e^{12}, \frac{3}{43}\sqrt{37}e^{13}, \frac{3}{43}\sqrt{35}e^{14} + \frac{6}{43}\sqrt{5}e^{25},$ $\frac{3}{43}\sqrt{51}e^{16}$	$(-\frac{37}{129}, \frac{17}{43}, \frac{32}{129}, \frac{58}{129}, -\frac{10}{43}, \frac{14}{129}, -\frac{5}{129}, \frac{7}{43}, -\frac{23}{129})$ $+ \frac{3}{43}\sqrt{107}e^2 \otimes e_5 + \frac{6}{43}\sqrt{31}e^4 \otimes e_9$	{134567, 1456, 2369, 2679}
941:54	$0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{448890}e^{12}, \frac{6}{1123}\sqrt{24171}e^{13},$ $\frac{1}{1123}\sqrt{877062}e^{14} + \frac{2}{1123}\sqrt{3453}e^{25}, \frac{1}{1123}\sqrt{453494}e^{16}$	$(-\frac{199}{1123}, \frac{369}{1123}, -\frac{210}{1123}, \frac{742}{1123}, \frac{174}{1123}, \frac{170}{1123}, -\frac{409}{1123}, \frac{543}{1123}, -\frac{29}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_7$	{123469, 1256789, 1345, 178, 2379, 24589, 3567, 468}
941:54	$0, 0, 0, 0, 0, \frac{10}{1837}\sqrt{786}e^{12}, \frac{10}{1837}\sqrt{1290}e^{13},$ $\frac{60}{1837}\sqrt{2}e^{14} + \frac{15}{1837}\sqrt{514}e^{25}, \frac{15}{1837}\sqrt{178}e^{16}$	$(-\frac{10}{1837}, -\frac{140}{1837}, \frac{124}{1837}, \frac{59}{1837}, \frac{189}{1837}, -\frac{150}{1837}, \frac{114}{1837}, \frac{49}{1837}, -\frac{160}{1837})$ $+ \frac{5}{1837}\sqrt{5118}e^5 \otimes e_7 + \frac{5}{1837}\sqrt{5262}e^3 \otimes e_8$	{1234569, 126789, 367, 4568}
941:54	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{2}{11}\sqrt{3}e^{13}, \frac{2}{11}\sqrt{3}e^{14} + \frac{2}{11}\sqrt{2}e^{25},$ $\frac{2}{11}\sqrt{2}e^{16}$	$(\frac{1}{11}, \frac{1}{11}, -\frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, 0, \frac{3}{11})$ $+ \frac{2}{11}\sqrt{5}e^1 \otimes e_4 + \frac{2}{11}\sqrt{5}e^2 \otimes e_7$	{12359, 167, 24569, 347}
941:54	$0, 0, 0, 0, 0, \frac{33}{1433}\sqrt{17}e^{12}, \frac{11}{1433}\sqrt{803}e^{13},$ $\frac{11}{1433}\sqrt{233}e^{14} + \frac{22}{1433}\sqrt{271}e^{25}, \frac{22}{1433}\sqrt{30}e^{16}$	$(-\frac{165}{1433}, \frac{132}{1433}, \frac{176}{1433}, \frac{220}{1433}, -\frac{77}{1433}, -\frac{33}{1433}, \frac{11}{1433}, \frac{55}{1433}, -\frac{198}{1433})$ $+ \frac{11}{1433}\sqrt{723}e^5 \otimes e_9 + \frac{22}{1433}\sqrt{237}e^3 \otimes e_8 + \frac{22}{1433}\sqrt{247}e^2 \otimes e_7$	{12356, 34679}
941:54	$0, 0, 0, 0, 0, \frac{6}{149}\sqrt{177}e^{12}, \frac{4}{149}\sqrt{767}e^{13}, \frac{2}{149}\sqrt{2183}e^{14} + \frac{2}{149}\sqrt{3127}e^{25},$ $\frac{2}{149}\sqrt{177}e^{16}$	$(-\frac{21}{149}, \frac{69}{149}, -\frac{28}{149}, \frac{61}{149}, -\frac{29}{149}, \frac{48}{149}, -\frac{49}{149}, \frac{40}{149}, \frac{27}{149})$ $+ \frac{10}{149}\sqrt{295}e^2 \otimes e_7$	{123489, 12359, 145678, 167, 24569, 2689, 347, 3578}
941:54	$0, 0, 0, 0, 0, \frac{4}{3429}\sqrt{65390}e^{12}, \frac{8}{1143}\sqrt{5030}e^{13},$ $\frac{2}{3429}\sqrt{336507}e^{14} + \frac{2}{3429}\sqrt{544246}e^{25}, \frac{2}{3429}\sqrt{149894}e^{16}$	$(-\frac{256}{3429}, -\frac{269}{3429}, \frac{25}{381}, \frac{962}{3429}, \frac{325}{1143}, -\frac{175}{1143}, -\frac{31}{3429}, \frac{706}{3429}, -\frac{781}{3429})$ $+ \frac{28}{1143}\sqrt{503}e^5 \otimes e_7 + \frac{28}{3429}\sqrt{3521}e^3 \otimes e_9$	{12356, 179, 2378, 5689}
941:54	$0, 0, 0, 0, 0, \frac{12}{149}\sqrt{15}e^{12}, \frac{2}{149}\sqrt{579}e^{13}, \frac{2}{149}\sqrt{627}e^{14} + \frac{8}{149}\sqrt{21}e^{25},$ $\frac{54}{149}e^{16}$	$(\frac{1}{149}, -\frac{3}{149}, -\frac{29}{149}, \frac{29}{149}, \frac{33}{149}, -\frac{2}{149}, -\frac{28}{149}, \frac{30}{149}, -\frac{1}{149})$ $+ \frac{2}{149}\sqrt{1173}e^1 \otimes e_3 + \frac{2}{149}\sqrt{903}e^4 \otimes e_9$	{12589, 1456, 2369, 348}
941:54	$0, 0, 0, 0, 0, \frac{2}{221}\sqrt{3243}e^{12}, \frac{3}{221}\sqrt{805}e^{13}, \frac{3}{221}\sqrt{391}e^{14} + \frac{2}{221}\sqrt{1173}e^{25},$ $\frac{3}{221}\sqrt{851}e^{16}$	$(\frac{1}{13}, \frac{3}{17}, -\frac{4}{17}, -\frac{8}{221}, -\frac{30}{221}, \frac{56}{221}, -\frac{35}{221}, \frac{9}{221}, \frac{73}{221})$ $+ \frac{1}{221}\sqrt{11247}e^2 \otimes e_5 + \frac{2}{221}\sqrt{4209}e^1 \otimes e_3$	{1249, 1456, 2369, 35}
941:55	$0, 0, 0, 0, 0, \frac{2}{765}\sqrt{12089}e^{12}, \frac{4}{255}\sqrt{1099}e^{13},$ $\frac{2}{765}\sqrt{13502}e^{14} + \frac{2}{765}\sqrt{4553}e^{25}, \frac{4}{765}\sqrt{6123}e^{26}$	$(-\frac{61}{255}, \frac{28}{765}, \frac{11}{45}, \frac{106}{255}, \frac{107}{765}, -\frac{31}{153}, \frac{4}{765}, \frac{3}{17}, -\frac{127}{765})$ $+ \frac{2}{765}\sqrt{51182}e^4 \otimes e_7 + \frac{38}{765}\sqrt{157}e^3 \otimes e_9$	{12346, 1345, 24589, 4689}
941:55	$0, 0, 0, 0, 0, \frac{2}{765}\sqrt{13502}e^{12}, \frac{4}{255}\sqrt{1099}e^{13},$ $\frac{2}{765}\sqrt{12089}e^{14} + \frac{2}{765}\sqrt{4553}e^{25}, \frac{4}{765}\sqrt{6123}e^{26}$	$(\frac{143}{765}, -\frac{3}{17}, \frac{11}{45}, -\frac{19}{85}, \frac{107}{765}, \frac{8}{765}, \frac{22}{51}, -\frac{28}{765}, -\frac{127}{765})$ $+ \frac{2}{765}\sqrt{51182}e^1 \otimes e_4 + \frac{38}{765}\sqrt{157}e^3 \otimes e_9$	{1279, 15679, 23467, 3457}
941:55	$0, 0, 0, 0, 0, \frac{2}{1265}\sqrt{108309}e^{12}, \frac{1}{1265}\sqrt{967926}e^{13},$ $\frac{2}{1265}\sqrt{249522}e^{14} + \frac{2}{1265}\sqrt{15081}e^{25}, \frac{9}{1265}\sqrt{2742}e^{26}$	$(-\frac{338}{1265}, \frac{64}{253}, -\frac{12}{115}, \frac{901}{1265}, \frac{243}{1265}, -\frac{18}{1265}, -\frac{94}{253}, \frac{563}{1265}, \frac{302}{1265})$ $+ \frac{6}{1265}\sqrt{79518}e^4 \otimes e_7$	{12346, 125678, 1345, 178, 2379, 24589, 35679, 4689}
941:55	$0, 0, 0, 0, 0, \frac{7}{127}\sqrt{46}e^{12}, \frac{3}{127}\sqrt{322}e^{13}, \frac{1}{127}\sqrt{782}e^{14} + \frac{46}{127}\sqrt{2}e^{25},$ $\frac{3}{127}\sqrt{115}e^{26}$	$(-\frac{3}{127}, -\frac{14}{127}, \frac{47}{127}, \frac{4}{127}, \frac{15}{127}, -\frac{17}{127}, \frac{44}{127}, \frac{1}{127}, -\frac{31}{127})$ $+ \frac{1}{127}\sqrt{4462}e^5 \otimes e_9 + \frac{2}{127}\sqrt{1518}e^3 \otimes e_8$	{123456, 1578, 2489, 3679}
941:55	$0, 0, 0, 0, 0, \frac{5}{69}\sqrt{2}e^{12}, \frac{10}{69}\sqrt{14}e^{13}, \frac{10}{69}\sqrt{7}e^{14} + \frac{5}{69}\sqrt{42}e^{25},$ $\frac{5}{69}\sqrt{10}e^{26}$	$(\frac{19}{69}, -\frac{3}{23}, -\frac{22}{69}, -\frac{2}{23}, \frac{22}{69}, \frac{10}{69}, -\frac{1}{23}, \frac{13}{69}, \frac{1}{69})$ $+ \frac{10}{69}\sqrt{13}e^1 \otimes e_4 + \frac{5}{69}\sqrt{74}e^5 \otimes e_7$	{123569, 179, 245, 3467}
941:55	$0, 0, 0, 0, 0, \frac{2}{3329}\sqrt{330042}e^{12}, \frac{8}{3329}\sqrt{4105}e^{13},$ $\frac{2}{3329}\sqrt{911310}e^{14} + \frac{2}{3329}\sqrt{396543}e^{25}, \frac{2}{3329}\sqrt{224133}e^{26}$	$(\frac{321}{3329}, \frac{144}{3329}, -\frac{1321}{3329}, \frac{642}{3329}, \frac{819}{3329}, \frac{465}{3329}, -\frac{1000}{3329}, \frac{963}{3329}, \frac{609}{3329})$ $+ \frac{2}{3329}\sqrt{1294717}e^1 \otimes e_3 + \frac{4}{3329}\sqrt{290634}e^4 \otimes e_7$	{125789, 16789, 2367, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:55	$0, 0, 0, 0, 0, \frac{28}{1483}\sqrt{95}e^{12}, \frac{15}{1483}\sqrt{2926}e^{13},$ $\frac{6}{1483}\sqrt{1995}e^{14} + \frac{10}{1483}\sqrt{4389}e^{25}, \frac{19}{1483}\sqrt{210}e^{26}$	$(\frac{218}{1483}, -\frac{58}{1483}, \frac{436}{1483}, -\frac{447}{1483}, -\frac{171}{1483}, \frac{160}{1483}, \frac{654}{1483}, -\frac{229}{1483}, \frac{102}{1483})$ $+ \frac{2}{1483}\sqrt{256690}e^3 \otimes e_8 + \frac{4}{1483}\sqrt{45885}e^1 \otimes e_4$	{126789, 15789, 248, 4568}
941:55	$0, 0, 0, 0, 0, \frac{11}{41}\sqrt{2}e^{12}, \frac{22}{205}\sqrt{23}e^{13}, \frac{22}{205}\sqrt{7}e^{14} + \frac{11}{205}\sqrt{78}e^{25},$ $\frac{11}{205}\sqrt{42}e^{26}$	$(-\frac{11}{205}, -\frac{11}{205}, -\frac{22}{205}, \frac{88}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{33}{205}, \frac{77}{205}, -\frac{33}{205})$ $+ \frac{11}{205}\sqrt{206}e^5 \otimes e_7 + \frac{22}{205}\sqrt{39}e^4 \otimes e_9$	{123456, 147, 259, 3679}
941:55	$0, 0, 0, 0, 0, \frac{1}{395}\sqrt{3270}e^{12}, \frac{6}{395}\sqrt{145}e^{13}, \frac{6}{395}\sqrt{15}e^{14} + \frac{1}{395}\sqrt{5790}e^{25},$ $\frac{3}{395}\sqrt{190}e^{26}$	$(-\frac{5}{79}, -\frac{1}{79}, \frac{6}{79}, \frac{8}{79}, \frac{4}{79}, -\frac{6}{79}, \frac{1}{79}, \frac{3}{79}, -\frac{7}{79})$ $+ \frac{1}{395}\sqrt{5730}e^5 \otimes e_7 + \frac{2}{395}\sqrt{1365}e^3 \otimes e_8$	{123569, 1246789, 3467, 568}
941:55	$0, 0, 0, 0, 0, \frac{7}{165}\sqrt{78}e^{12}, \frac{7}{165}\sqrt{122}e^{13}, \frac{7}{165}\sqrt{70}e^{14} + \frac{14}{165}\sqrt{22}e^{25},$ $\frac{14}{165}\sqrt{23}e^{26}$	$(\frac{61}{165}, -\frac{3}{11}, -\frac{1}{15}, -\frac{37}{165}, \frac{23}{55}, \frac{16}{165}, \frac{10}{33}, \frac{8}{55}, -\frac{29}{165})$ $+ \frac{14}{165}\sqrt{74}e^1 \otimes e_4 + \frac{7}{165}\sqrt{286}e^5 \otimes e_9$	{1369, 1679, 234567, 2456}
941:55	$0, 0, 0, 0, 0, \frac{7}{165}\sqrt{70}e^{12}, \frac{7}{165}\sqrt{122}e^{13}, \frac{7}{165}\sqrt{78}e^{14} + \frac{14}{165}\sqrt{22}e^{25},$ $\frac{14}{165}\sqrt{23}e^{26}$	$(-\frac{13}{165}, -\frac{8}{165}, -\frac{1}{15}, \frac{74}{165}, \frac{23}{55}, -\frac{7}{55}, -\frac{8}{55}, \frac{61}{165}, -\frac{29}{165})$ $+ \frac{14}{165}\sqrt{74}e^4 \otimes e_7 + \frac{7}{165}\sqrt{286}e^5 \otimes e_9$	{123456, 1578, 2489, 3679}
941:55	$0, 0, 0, 0, 0, \frac{8}{1249}\sqrt{9710}e^{12}, \frac{1}{1249}\sqrt{879726}e^{13},$ $\frac{2}{1249}\sqrt{101955}e^{14} + \frac{18}{1249}\sqrt{2913}e^{25}, \frac{3}{1249}\sqrt{21362}e^{26}$	$(-\frac{154}{1249}, \frac{122}{1249}, \frac{796}{1249}, -\frac{21}{1249}, -\frac{297}{1249}, -\frac{32}{1249}, \frac{642}{1249}, -\frac{175}{1249}, \frac{90}{1249})$ $+ \frac{2}{1249}\sqrt{514630}e^3 \otimes e_8$	{1234569, 126789, 1349, 15789, 2357, 248, 367, 4568}
941:55	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{170}e^{12}, \frac{1}{23}\sqrt{374}e^{13}, \frac{1}{23}\sqrt{170}e^{14} + \frac{2}{23}\sqrt{102}e^{25},$ $\frac{1}{23}\sqrt{102}e^{26}$	$(\frac{2}{23}, -\frac{1}{23}, -\frac{8}{23}, \frac{8}{23}, \frac{11}{23}, \frac{1}{23}, -\frac{6}{23}, \frac{10}{23}, 0)$ $+ \frac{2}{23}\sqrt{170}e^5 \otimes e_7$	{123569, 1246789, 134589, 179, 2378, 245, 3467, 568}
941:55	$0, 0, 0, 0, 0, \frac{10}{1009}\sqrt{1165}e^{12}, \frac{75}{1009}\sqrt{30}e^{13},$ $\frac{15}{1009}\sqrt{510}e^{14} + \frac{60}{1009}\sqrt{30}e^{25}, \frac{20}{1009}\sqrt{55}e^{26}$	$(-\frac{250}{1009}, \frac{145}{1009}, \frac{263}{1009}, \frac{263}{1009}, -\frac{132}{1009}, -\frac{105}{1009}, \frac{13}{1009}, \frac{13}{1009}, \frac{40}{1009})$ $+ \frac{5}{1009}\sqrt{10330}e^3 \otimes e_8 + \frac{5}{1009}\sqrt{8170}e^4 \otimes e_7$	{1234569, 126789, 1349, 15789, 2357, 248, 367, 4568}
941:55	$0, 0, 0, 0, 0, \frac{10}{1009}\sqrt{1165}e^{12}, \frac{75}{1009}\sqrt{30}e^{13},$ $\frac{15}{1009}\sqrt{510}e^{14} + \frac{60}{1009}\sqrt{30}e^{25}, \frac{20}{1009}\sqrt{55}e^{26}$	$(-\frac{250}{1009}, \frac{145}{1009}, \frac{263}{1009}, \frac{263}{1009}, -\frac{132}{1009}, -\frac{105}{1009}, \frac{13}{1009}, \frac{13}{1009}, \frac{40}{1009})$ $+ \frac{5}{1009}\sqrt{10330}e^3 \otimes e_8 - \frac{5}{1009}\sqrt{8170}e^4 \otimes e_7$	{1234569, 126789, 1349, 15789, 2357, 248, 367, 4568}
941:55	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{178}e^{12}, \frac{1}{80}\sqrt{1335}e^{13}, \frac{1}{40}\sqrt{178}e^{14} + \frac{1}{80}\sqrt{4094}e^{25},$ $\frac{1}{80}\sqrt{3382}e^{26}$	$(\frac{3}{16}, -\frac{47}{160}, \frac{7}{80}, \frac{37}{160}, \frac{57}{80}, -\frac{17}{160}, \frac{11}{40}, \frac{67}{160}, -\frac{2}{5})$ $+ \frac{1}{80}\sqrt{11659}e^5 \otimes e_9$	{12356, 12567, 13458, 14578, 23789, 289, 34679, 469}
941:55	$0, 0, 0, 0, 0, \frac{11}{2415}\sqrt{498}e^{12}, \frac{22}{2415}\sqrt{1446}e^{13},$ $\frac{22}{2415}\sqrt{591}e^{14} + \frac{11}{2415}\sqrt{2778}e^{25}, \frac{11}{2415}\sqrt{870}e^{26}$	$(\frac{99}{805}, -\frac{121}{805}, -\frac{22}{805}, -\frac{22}{805}, \frac{198}{805}, -\frac{22}{805}, \frac{11}{115}, \frac{11}{115}, -\frac{143}{805})$ $+ \frac{11}{2415}\sqrt{5370}e^5 \otimes e_7 + \frac{22}{2415}\sqrt{933}e^1 \otimes e_4 + \frac{88}{2415}\sqrt{69}e^3 \otimes e_9$	{12356, 2459}
941:55	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{2955}e^{12}, \frac{1}{152}\sqrt{7486}e^{13}, \frac{1}{304}\sqrt{2955}e^{14} + \frac{9}{304}\sqrt{394}e^{25},$ $\frac{1}{304}\sqrt{5910}e^{26}$	$(\frac{33}{152}, -\frac{45}{608}, -\frac{131}{304}, \frac{87}{608}, \frac{33}{76}, \frac{87}{608}, -\frac{65}{304}, \frac{219}{608}, \frac{21}{304})$ $+ \frac{1}{304}\sqrt{35854}e^1 \otimes e_3 + \frac{1}{304}\sqrt{69738}e^5 \otimes e_7$	{1246789, 179, 2378, 3467}
941:55	$0, 0, 0, 0, 0, \frac{1}{804}\sqrt{61455}e^{12}, \frac{1}{804}\sqrt{170146}e^{13},$ $\frac{1}{804}\sqrt{61455}e^{14} + \frac{1}{402}\sqrt{27233}e^{25}, \frac{1}{201}\sqrt{1687}e^{26}$	$(-\frac{29}{804}, -\frac{57}{536}, \frac{41}{804}, \frac{131}{536}, \frac{253}{804}, -\frac{229}{1608}, \frac{1}{67}, \frac{5}{24}, -\frac{50}{201})$ $+ \frac{1}{402}\sqrt{49405}e^5 \otimes e_7 + \frac{5}{804}\sqrt{6266}e^3 \otimes e_9$	{12356, 13458, 2459, 5689}
941:55	$0, 0, 0, 0, 0, \frac{2}{1265}\sqrt{249522}e^{12}, \frac{1}{1265}\sqrt{967926}e^{13},$ $\frac{2}{1265}\sqrt{108309}e^{14} + \frac{2}{1265}\sqrt{15081}e^{25}, \frac{9}{1265}\sqrt{2742}e^{26}$	$(\frac{706}{1265}, -\frac{202}{1265}, -\frac{12}{115}, -\frac{133}{253}, \frac{243}{1265}, \frac{504}{1265}, \frac{574}{1265}, \frac{41}{1265}, \frac{302}{1265})$ $+ \frac{6}{1265}\sqrt{79518}e^1 \otimes e_4$	{1239, 1279, 13569, 15679, 23467, 246, 3457, 45}
941:55	$0, 0, 0, 0, 0, \frac{1}{345}\sqrt{710}e^{12}, \frac{2}{345}\sqrt{365}e^{13}, \frac{2}{345}\sqrt{55}e^{14} + \frac{7}{345}\sqrt{30}e^{25},$ $\frac{1}{345}\sqrt{430}e^{26}$	$(\frac{1}{69}, -\frac{1}{23}, \frac{2}{69}, 0, \frac{4}{69}, -\frac{2}{69}, \frac{1}{23}, \frac{1}{69}, -\frac{5}{69})$ $+ \frac{1}{345}\sqrt{1490}e^5 \otimes e_7 + \frac{2}{345}\sqrt{345}e^3 \otimes e_8 + \frac{4}{69}e^1 \otimes e_4$	{123569, 3467}
941:55	$0, 0, 0, 0, 0, \frac{90}{4001}\sqrt{55}e^{12}, \frac{18}{4001}\sqrt{5214}e^{13},$ $\frac{48}{4001}\sqrt{330}e^{14} + \frac{6}{4001}\sqrt{16599}e^{25}, \frac{66}{4001}\sqrt{318}e^{26}$	$(-\frac{77}{4001}, \frac{366}{4001}, \frac{549}{4001}, \frac{1020}{4001}, -\frac{123}{4001}, -\frac{411}{4001}, -\frac{228}{4001}, \frac{243}{4001}, -\frac{45}{4001})$ $+ \frac{6}{4001}\sqrt{52503}e^3 \otimes e_9 + \frac{6}{4001}\sqrt{66990}e^2 \otimes e_7$	{1456789, 1679, 347, 3578}
941:55	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{902}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{226}\sqrt{2378}e^{14} + \frac{1}{226}\sqrt{5986}e^{25},$ $\frac{1}{113}\sqrt{2337}e^{26}$	$(\frac{13}{113}, \frac{13}{113}, \frac{4}{113}, -\frac{28}{113}, -\frac{28}{113}, \frac{26}{113}, \frac{17}{113}, -\frac{15}{113}, \frac{39}{113})$ $+ \frac{1}{226}\sqrt{15006}e^1 \otimes e_4 - \frac{1}{226}\sqrt{18614}e^2 \otimes e_5$	{1239, 1279, 13569, 15679, 23467, 246, 3457, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:55	$0, 0, 0, 0, 0, \frac{2}{113}\sqrt{902}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{226}\sqrt{2378}e^{14} + \frac{1}{226}\sqrt{5986}e^{25},$ $\frac{1}{113}\sqrt{2337}e^{26}$	$(\frac{13}{113}, \frac{13}{113}, \frac{4}{113}, -\frac{28}{113}, -\frac{28}{113}, \frac{26}{113}, \frac{17}{113}, -\frac{15}{113}, \frac{39}{113})$ $+ \frac{1}{226}\sqrt{15006}e^1 \otimes e_4 + \frac{1}{226}\sqrt{18614}e^2 \otimes e_5$	{1239, 1279, 13569, 15679, 23467, 246, 3457, 45}
941:55	$0, 0, 0, 0, 0, \frac{2}{3369}\sqrt{432890}e^{12}, \frac{8}{3369}\sqrt{13639}e^{13},$ $\frac{10}{3369}\sqrt{1779}e^{14} + \frac{2}{3369}\sqrt{321999}e^{25}, \frac{4}{3369}\sqrt{193318}e^{26}$	$(-\frac{231}{1123}, \frac{449}{3369}, \frac{1391}{3369}, \frac{135}{1123}, -\frac{737}{3369}, -\frac{244}{3369}, \frac{698}{3369}, -\frac{96}{1123}, \frac{205}{3369})$ $+ \frac{2}{3369}\sqrt{847397}e^3 \otimes e_9 + \frac{2}{3369}\sqrt{954730}e^2 \otimes e_5$	{1279, 15679, 23467, 3457}
941:55	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{21}e^{12}, \frac{1}{20}\sqrt{29}e^{13}, \frac{1}{20}\sqrt{17}e^{14} + \frac{1}{20}\sqrt{34}e^{25},$ $\frac{3}{10}e^{26}$	$(0, 0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{10}\sqrt{19}e^2 \otimes e_7 + \frac{1}{20}\sqrt{51}e^5 \otimes e_9 + \frac{3}{20}\sqrt{2}e^1 \otimes e_3$	{1679, 3578}
941:55	$0, 0, 0, 0, 0, \frac{13}{2185}\sqrt{727}e^{12}, \frac{13}{2185}\sqrt{1147}e^{13},$ $\frac{13}{2185}\sqrt{791}e^{14} + \frac{26}{2185}\sqrt{210}e^{25}, \frac{26}{2185}\sqrt{202}e^{26}$	$(\frac{182}{2185}, -\frac{52}{2185}, -\frac{403}{2185}, \frac{13}{2185}, \frac{13}{115}, \frac{26}{437}, -\frac{221}{2185}, \frac{39}{437}, \frac{78}{2185})$ $+ \frac{13}{2185}\sqrt{1106}e^1 \otimes e_4 + \frac{13}{2185}\sqrt{1930}e^2 \otimes e_7 + \frac{13}{2185}\sqrt{993}e^5 \otimes e_9$	{1679, 2456}
941:55	$0, 0, 0, 0, 0, \frac{2}{683}\sqrt{13497}e^{14} + \frac{2}{683}\sqrt{13497}e^{25}, \frac{3}{683}\sqrt{8998}e^{13},$ $\frac{3}{683}\sqrt{8998}e^{26}$	$(-\frac{122}{683}, \frac{154}{683}, \frac{308}{683}, \frac{21}{683}, -\frac{255}{683}, \frac{32}{683}, \frac{186}{683}, -\frac{101}{683}, \frac{186}{683})$ $+ \frac{2}{683}\sqrt{56442}e^2 \otimes e_5 + \frac{8}{683}\sqrt{4090}e^3 \otimes e_8$	{12789, 156789, 2468, 458}
941:55	$0, 0, 0, 0, 0, \frac{12}{307}\sqrt{453}e^{12}, \frac{4}{307}\sqrt{2114}e^{13},$ $\frac{12}{307}\sqrt{453}e^{14} + \frac{2}{307}\sqrt{10419}e^{25}, \frac{2}{307}\sqrt{5889}e^{26}$	$(\frac{147}{307}, -\frac{30}{307}, -\frac{155}{307}, -\frac{60}{307}, \frac{117}{307}, \frac{117}{307}, -\frac{8}{307}, \frac{87}{307}, \frac{87}{307})$ $+ \frac{2}{307}\sqrt{39109}e^1 \otimes e_3$	{1249, 12589, 14569, 1689, 234568, 236, 348, 35}
941:55	$0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{285782}e^{12}, \frac{1}{1241}\sqrt{264922}e^{13},$ $\frac{2}{1241}\sqrt{11473}e^{14} + \frac{298}{1241}\sqrt{7}e^{25}, \frac{3}{1241}\sqrt{118902}e^{26}$	$(-\frac{254}{1241}, \frac{478}{1241}, \frac{316}{1241}, \frac{167}{1241}, -\frac{565}{1241}, \frac{224}{1241}, \frac{62}{1241}, -\frac{87}{1241}, \frac{702}{1241})$ $+ \frac{2}{1241}\sqrt{548618}e^2 \otimes e_5$	{123479, 1249, 1345679, 14569, 236, 267, 35, 57}
941:55	$0, 0, 0, 0, 0, \frac{1}{1309}\sqrt{451542}e^{12}, \frac{1}{1309}\sqrt{722798}e^{13},$ $\frac{5}{1309}\sqrt{18194}e^{14} + \frac{4}{1309}\sqrt{33907}e^{25}, \frac{1}{1309}\sqrt{540858}e^{26}$	$(-\frac{222}{1309}, \frac{381}{1309}, -\frac{32}{187}, \frac{488}{1309}, -\frac{115}{1309}, \frac{159}{1309}, -\frac{446}{1309}, \frac{38}{187}, \frac{540}{1309})$ $+ \frac{4}{1309}\sqrt{113299}e^2 \otimes e_7$	{123489, 12359, 1456789, 1679, 2456, 268, 347, 3578}
941:55	$0, 0, 0, 0, 0, \frac{78}{3701}\sqrt{219}e^{12}, \frac{208}{3701}\sqrt{30}e^{13},$ $\frac{26}{3701}\sqrt{4665}e^{14} + \frac{78}{3701}\sqrt{327}e^{25}, \frac{78}{3701}\sqrt{341}e^{26}$	$(\frac{333}{3701}, -\frac{407}{3701}, -\frac{681}{3701}, \frac{533}{3701}, \frac{1273}{3701}, -\frac{74}{3701}, -\frac{348}{3701}, \frac{866}{3701}, -\frac{481}{3701})$ $+ \frac{26}{3701}\sqrt{4839}e^1 \otimes e_3 + \frac{52}{3701}\sqrt{1347}e^4 \otimes e_9$	{12589, 1689, 234568, 348}
941:55	$0, 0, 0, 0, 0, \frac{26}{3701}\sqrt{4665}e^{12}, \frac{208}{3701}\sqrt{30}e^{13},$ $\frac{78}{3701}\sqrt{219}e^{14} + \frac{78}{3701}\sqrt{327}e^{25}, \frac{78}{3701}\sqrt{341}e^{26}$	$(\frac{333}{3701}, \frac{491}{3701}, -\frac{681}{3701}, -\frac{365}{3701}, -\frac{523}{3701}, \frac{824}{3701}, -\frac{348}{3701}, -\frac{32}{3701}, \frac{1315}{3701})$ $+ \frac{26}{3701}\sqrt{4839}e^1 \otimes e_3 + \frac{52}{3701}\sqrt{1347}e^2 \otimes e_5$	{1249, 14569, 236, 35}
941:55	$0, 0, 0, 0, 0, \frac{5}{961}\sqrt{102}e^{12}, \frac{5}{961}\sqrt{1082}e^{13}, \frac{5}{961}\sqrt{266}e^{14} + \frac{10}{961}\sqrt{310}e^{25},$ $\frac{10}{961}\sqrt{123}e^{26}$	$(-\frac{105}{961}, \frac{30}{961}, \frac{85}{961}, \frac{140}{961}, \frac{5}{961}, -\frac{75}{961}, -\frac{20}{961}, \frac{35}{961}, -\frac{45}{961})$ $+ \frac{10}{961}\sqrt{282}e^3 \otimes e_8 + \frac{20}{961}\sqrt{91}e^2 \otimes e_7 - \frac{5}{961}\sqrt{966}e^5 \otimes e_9$	{12356, 14578, 289, 34679}
941:55	$0, 0, 0, 0, 0, \frac{5}{961}\sqrt{102}e^{12}, \frac{5}{961}\sqrt{1082}e^{13}, \frac{5}{961}\sqrt{266}e^{14} + \frac{10}{961}\sqrt{310}e^{25},$ $\frac{10}{961}\sqrt{123}e^{26}$	$(-\frac{105}{961}, \frac{30}{961}, \frac{85}{961}, \frac{140}{961}, \frac{5}{961}, -\frac{75}{961}, -\frac{20}{961}, \frac{35}{961}, -\frac{45}{961})$ $+ \frac{10}{961}\sqrt{282}e^3 \otimes e_8 + \frac{20}{961}\sqrt{91}e^2 \otimes e_7 + \frac{5}{961}\sqrt{966}e^5 \otimes e_9$	{12356, 14578, 289, 34679}
941:55	$0, 0, 0, 0, 0, \frac{18}{235}\sqrt{7}e^{12}, \frac{3}{235}\sqrt{854}e^{13}, \frac{3}{235}\sqrt{42}e^{14} + \frac{63}{235}\sqrt{2}e^{25},$ $\frac{12}{235}\sqrt{7}e^{26}$	$(\frac{27}{235}, -\frac{33}{235}, \frac{54}{235}, -\frac{36}{235}, \frac{24}{235}, -\frac{6}{235}, \frac{81}{235}, -\frac{9}{235}, -\frac{39}{235})$ $+ \frac{3}{235}\sqrt{1330}e^3 \otimes e_8 + \frac{3}{235}\sqrt{742}e^1 \otimes e_4 + \frac{3}{235}\sqrt{938}e^5 \otimes e_9$	{1578, 2489}
941:55	$0, 0, 0, 0, 0, \frac{1}{64}\sqrt{305}e^{12}, \frac{1}{64}\sqrt{2806}e^{13}, \frac{1}{64}\sqrt{305}e^{14} + \frac{1}{32}\sqrt{61}e^{25},$ $\frac{1}{32}\sqrt{671}e^{26}$	$(-\frac{7}{64}, -\frac{13}{128}, \frac{41}{64}, \frac{27}{128}, \frac{13}{64}, -\frac{27}{128}, \frac{13}{32}, \frac{13}{128}, -\frac{5}{16})$ $+ \frac{1}{64}\sqrt{6466}e^3 \otimes e_9$	{1234568, 1236, 1348, 135, 249, 2589, 4569, 689}
941:55	$0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{11473}e^{12}, \frac{1}{1241}\sqrt{264922}e^{13},$ $\frac{2}{1241}\sqrt{285782}e^{14} + \frac{298}{1241}\sqrt{7}e^{25}, \frac{3}{1241}\sqrt{118902}e^{26}$	$(-\frac{254}{1241}, -\frac{48}{1241}, \frac{316}{1241}, \frac{693}{1241}, \frac{487}{1241}, -\frac{302}{1241}, \frac{62}{1241}, \frac{439}{1241}, -\frac{350}{1241})$ $+ \frac{2}{1241}\sqrt{548618}e^4 \otimes e_9$	{1235789, 12589, 136789, 1689, 234568, 245678, 348, 478}
941:55	$0, 0, 0, 0, 0, \frac{18}{185}\sqrt{5}e^{12}, \frac{6}{185}\sqrt{33}e^{13}, \frac{6}{185}\sqrt{167}e^{14} + \frac{18}{185}\sqrt{2}e^{25},$ $\frac{12}{185}\sqrt{22}e^{26}$	$(\frac{18}{185}, -\frac{12}{185}, -\frac{54}{185}, \frac{36}{185}, \frac{66}{185}, \frac{6}{185}, -\frac{36}{185}, \frac{54}{185}, -\frac{6}{185})$ $+ \frac{12}{185}\sqrt{61}e^4 \otimes e_7 + \frac{6}{185}\sqrt{179}e^5 \otimes e_9 + \frac{6}{37}\sqrt{10}e^1 \otimes e_3$	{16789, 357}
941:55	$0, 0, 0, 0, 0, \frac{8}{347}\sqrt{15}e^{12}, \frac{4}{347}\sqrt{1110}e^{13}, \frac{28}{347}\sqrt{3}e^{14} + \frac{4}{347}\sqrt{1023}e^{25},$ $\frac{12}{347}\sqrt{29}e^{26}$	$(-\frac{196}{1041}, \frac{194}{1041}, \frac{58}{347}, \frac{154}{1041}, -\frac{236}{1041}, -\frac{2}{1041}, -\frac{22}{1041}, -\frac{14}{347}, \frac{64}{347})$ $+ \frac{4}{347}\sqrt{1317}e^3 \otimes e_8 + \frac{4}{347}\sqrt{1491}e^2 \otimes e_7$	{12356, 14578, 289, 34679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:55	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{371}e^{12}, \frac{4}{169}\sqrt{159}e^{13}, \frac{4}{169}\sqrt{371}e^{14} + \frac{2}{169}\sqrt{53}e^{25},$ $\frac{2}{169}\sqrt{1537}e^{26}$	$(\frac{57}{169}, -\frac{38}{169}, -\frac{49}{169}, -\frac{8}{169}, \frac{87}{169}, \frac{19}{169}, \frac{8}{169}, \frac{49}{169}, -\frac{19}{169})$ $+ \frac{18}{169}\sqrt{53}e^1 \otimes e_3 + \frac{4}{169}\sqrt{901}e^5 \otimes e_9$	{1289, 1469, 2356, 3458}
941:55	$0, 0, 0, 0, 0, \frac{24}{2305}\sqrt{866}e^{12}, \frac{2}{2305}\sqrt{142457}e^{13},$ $\frac{2}{2305}\sqrt{65383}e^{14} + \frac{2}{2305}\sqrt{35506}e^{25}, \frac{2}{2305}\sqrt{320853}e^{26}$	$(-\frac{99}{461}, \frac{63}{461}, -\frac{56}{2305}, \frac{1001}{2305}, \frac{191}{2305}, -\frac{36}{461}, -\frac{551}{2305}, \frac{506}{2305}, \frac{27}{461})$ $+ \frac{2}{2305}\sqrt{380607}e^4 \otimes e_9 + \frac{2}{2305}\sqrt{499249}e^2 \otimes e_7$	{12389, 156789, 2468, 34578}
941:55	$0, 0, 0, 0, 0, \frac{11}{161}\sqrt{34}e^{12}, \frac{44}{805}\sqrt{73}e^{13}, \frac{66}{805}\sqrt{43}e^{14} + \frac{11}{805}\sqrt{1502}e^{25},$ $\frac{11}{805}\sqrt{1002}e^{26}$	$(\frac{99}{805}, -\frac{121}{805}, -\frac{22}{805}, -\frac{22}{805}, \frac{198}{805}, -\frac{22}{805}, \frac{11}{115}, \frac{11}{115}, -\frac{143}{805})$ $+ \frac{11}{805}\sqrt{1214}e^5 \otimes e_7 + \frac{22}{805}\sqrt{330}e^1 \otimes e_3 + \frac{22}{805}\sqrt{349}e^4 \otimes e_9$	{1689, 348}
941:55	$0, 0, 0, 0, 0, \frac{1}{1263}\sqrt{360570}e^{12}, \frac{1}{1263}\sqrt{91910}e^{13},$ $\frac{2}{1263}\sqrt{58681}e^{14} + \frac{202}{1263}\sqrt{7}e^{25}, \frac{2}{1263}\sqrt{117362}e^{26}$	$(-\frac{113}{421}, \frac{409}{1263}, \frac{82}{1263}, \frac{150}{421}, -\frac{298}{1263}, \frac{70}{1263}, -\frac{257}{1263}, \frac{37}{421}, \frac{479}{1263})$ $+ \frac{1}{1263}\sqrt{914858}e^2 \otimes e_5 + \frac{7}{1263}\sqrt{13534}e^4 \otimes e_7$	{12349, 134569, 2367, 357}
941:55	$0, 0, 0, 0, 0, \frac{1}{1009}\sqrt{42510}e^{12}, \frac{5}{1009}\sqrt{4142}e^{13},$ $\frac{7}{1009}\sqrt{1526}e^{14} + \frac{4}{1009}\sqrt{7630}e^{25}, \frac{18}{1009}\sqrt{327}e^{26}$	$(-\frac{63}{1009}, \frac{18}{1009}, -\frac{137}{1009}, \frac{272}{1009}, \frac{191}{1009}, -\frac{45}{1009}, -\frac{200}{1009}, \frac{209}{1009}, -\frac{27}{1009})$ $+ \frac{1}{1009}\sqrt{161538}e^5 \otimes e_9 + \frac{2}{1009}\sqrt{58642}e^2 \otimes e_7$	{123489, 1679, 2456, 3578}
941:55	$0, 0, 0, 0, 0, \frac{52}{1255}\sqrt{66}e^{12}, \frac{156}{1255}\sqrt{7}e^{13},$ $\frac{26}{1255}\sqrt{579}e^{14} + \frac{39}{1255}\sqrt{70}e^{25}, \frac{117}{1255}\sqrt{14}e^{26}$	$(-\frac{247}{1255}, \frac{13}{1255}, \frac{546}{1255}, \frac{286}{1255}, \frac{26}{1255}, \frac{234}{1255}, \frac{299}{1255}, \frac{39}{1255}, -\frac{221}{1255})$ $+ \frac{13}{1255}\sqrt{3246}e^4 \otimes e_9 + \frac{13}{1255}\sqrt{3498}e^3 \otimes e_8$	{123456, 134, 23579, 3679}
941:55	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{205}e^{12}, \frac{9}{505}\sqrt{282}e^{13}, \frac{9}{505}\sqrt{158}e^{14} + \frac{18}{505}\sqrt{62}e^{25},$ $\frac{18}{505}\sqrt{3}e^{26}$	$(-\frac{81}{505}, \frac{9}{505}, \frac{108}{505}, \frac{108}{505}, \frac{18}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $+ \frac{9}{101}\sqrt{17}e^3 \otimes e_8 + \frac{9}{505}\sqrt{211}e^5 \otimes e_9 - \frac{9}{505}\sqrt{301}e^4 \otimes e_7$	{123456, 1578, 2489, 3679}
941:55	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{205}e^{12}, \frac{9}{505}\sqrt{282}e^{13}, \frac{9}{505}\sqrt{158}e^{14} + \frac{18}{505}\sqrt{62}e^{25},$ $\frac{18}{505}\sqrt{3}e^{26}$	$(-\frac{81}{505}, \frac{9}{505}, \frac{108}{505}, \frac{108}{505}, \frac{18}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $+ \frac{9}{101}\sqrt{17}e^3 \otimes e_8 + \frac{9}{505}\sqrt{211}e^5 \otimes e_9 + \frac{9}{505}\sqrt{301}e^4 \otimes e_7$	{123456, 1578, 2489, 3679}
941:55	$0, 0, 0, 0, 0, \frac{2}{4069}\sqrt{387979}e^{12}, \frac{2}{4069}\sqrt{495985}e^{13},$ $\frac{2}{4069}\sqrt{317507}e^{14} + \frac{4}{4069}\sqrt{54003}e^{25}, \frac{8}{4069}\sqrt{15703}e^{26}$	$(\frac{443}{4069}, \frac{23}{313}, -\frac{70}{313}, -\frac{323}{4069}, -\frac{179}{4069}, \frac{742}{4069}, -\frac{467}{4069}, \frac{120}{4069}, \frac{1041}{4069})$ $+ \frac{2}{4069}\sqrt{588671}e^4 \otimes e_4 + \frac{2}{4069}\sqrt{822301}e^2 \otimes e_7$	{12359, 1679, 2456, 347}
941:56	$0, 0, 0, 0, 0, \frac{10}{3561}\sqrt{3990}e^{12}, \frac{14}{3561}\sqrt{4845}e^{13}, \frac{2}{3561}\sqrt{789355}e^{45},$ $\frac{2}{1187}\sqrt{31255}e^{16} + \frac{2}{3561}\sqrt{331170}e^{23}$	$(-\frac{75}{1187}, \frac{19}{1187}, -\frac{150}{1187}, \frac{655}{3561}, \frac{937}{3561}, -\frac{56}{1187}, -\frac{225}{1187}, \frac{1592}{3561}, -\frac{131}{1187})$ $+ \frac{2}{1187}\sqrt{127015}e^5 \otimes e_9 + \frac{2}{3561}\sqrt{955605}e^4 \otimes e_7$	{123456, 13489, 23578, 3679}
941:56	$0, 0, 0, 0, 0, \frac{1}{893}\sqrt{47946}e^{12}, \frac{8}{893}\sqrt{183}e^{13}, \frac{1}{893}\sqrt{134322}e^{45},$ $\frac{6}{893}\sqrt{2013}e^{16} + \frac{5}{893}\sqrt{6954}e^{23}$	$(-\frac{73}{893}, \frac{147}{893}, -\frac{146}{893}, \frac{367}{893}, -\frac{4}{47}, \frac{74}{893}, -\frac{219}{893}, \frac{291}{893}, \frac{1}{893})$ $+ \frac{1}{893}\sqrt{250710}e^2 \otimes e_7 + \frac{2}{893}\sqrt{81069}e^4 \otimes e_9$	{14567, 14678, 25689, 269}
941:56	$0, 0, 0, 0, 0, \frac{1}{7449}\sqrt{2082}e^{12}, \frac{2}{7449}\sqrt{555}e^{13}, \frac{1}{7449}\sqrt{4966}e^{45},$ $\frac{1}{7449}\sqrt{3318}e^{16} + \frac{1}{7449}\sqrt{870}e^{23}$	$(-\frac{4}{2483}, \frac{15}{2483}, -\frac{8}{2483}, -\frac{35}{7449}, \frac{22}{7449}, \frac{11}{2483}, -\frac{12}{2483}, -\frac{1}{573}, \frac{7}{2483})$ $+ \frac{1}{7449}\sqrt{3594}e^4 \otimes e_7 + \frac{1}{7449}\sqrt{6294}e^1 \otimes e_8 + \frac{2}{2483}\sqrt{103}e^5 \otimes e_9$	{13456, 3578}
941:56	$0, 0, 0, 0, 0, \frac{12}{1247}\sqrt{2330}e^{12}, \frac{12}{1247}\sqrt{1165}e^{13}, \frac{26}{1247}\sqrt{466}e^{45},$ $\frac{12}{1247}\sqrt{2330}e^{16} + \frac{2}{1247}\sqrt{57318}e^{23}$	$(\frac{114}{1247}, \frac{48}{1247}, \frac{228}{1247}, \frac{57}{1247}, -\frac{409}{1247}, \frac{162}{1247}, \frac{342}{1247}, -\frac{352}{1247}, \frac{276}{1247})$ $+ \frac{466}{1247}e^4 \otimes e_5 + \frac{4}{1247}\sqrt{49629}e^1 \otimes e_8$	{2346789, 2356789, 3478, 3578}
941:56	$0, 0, 0, 0, 0, \frac{4}{99}\sqrt{11}e^{12}, \frac{2}{99}\sqrt{330}e^{13}, \frac{4}{99}\sqrt{55}e^{45},$ $\frac{2}{99}\sqrt{187}e^{16} + \frac{2}{99}\sqrt{330}e^{23}$	$(0, \frac{2}{9}, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 0, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{2}{99}\sqrt{429}e^2 \otimes e_7 + \frac{2}{99}\sqrt{561}e^3 \otimes e_8$	{1478, 2489}
941:56	$0, 0, 0, 0, 0, \frac{1}{369}\sqrt{49714}e^{12}, \frac{14}{369}\sqrt{318}e^{13}, \frac{2}{369}\sqrt{4081}e^{45},$ $\frac{2}{369}\sqrt{6307}e^{16} + \frac{14}{369}\sqrt{318}e^{23}$	$(-\frac{17}{123}, \frac{218}{369}, -\frac{34}{369}, \frac{44}{369}, \frac{44}{369}, \frac{167}{369}, -\frac{17}{41}, \frac{88}{369}, \frac{116}{369})$ $+ \frac{1}{369}\sqrt{224826}e^2 \otimes e_7$	{123, 12345, 12348, 34579, 34789, 379}
941:56	$0, 0, 0, 0, 0, \frac{1}{1074}\sqrt{546}e^{12}, \frac{1}{537}\sqrt{249}e^{13}, \frac{1}{537}\sqrt{358}e^{45},$ $\frac{1}{179}\sqrt{5}e^{16} + \frac{1}{179}\sqrt{26}e^{23}$	$(\frac{1}{179}, -\frac{4}{179}, \frac{2}{179}, \frac{10}{537}, -\frac{5}{537}, -\frac{3}{179}, \frac{3}{179}, \frac{5}{537}, -\frac{2}{179})$ $+ \frac{1}{1074}\sqrt{1218}e^4 \otimes e_7 + \frac{1}{1074}\sqrt{1686}e^3 \otimes e_8 + \frac{1}{358}\sqrt{122}e^5 \otimes e_9$	{1578, 2489}
941:56	$0, 0, 0, 0, 0, \frac{1}{187}\sqrt{209}e^{12}, \frac{2}{187}\sqrt{165}e^{13}, \frac{1}{187}\sqrt{1045}e^{45},$ $\frac{2}{187}\sqrt{33}e^{16} + \frac{1}{187}\sqrt{1265}e^{23}$	$(0, \frac{1}{17}, 0, -\frac{3}{17}, \frac{2}{17}, \frac{1}{17}, 0, -\frac{1}{17}, \frac{1}{17})$ $+ \frac{1}{17}\sqrt{10}e^5 \otimes e_9 + \frac{1}{187}\sqrt{1606}e^3 \otimes e_8 + \frac{1}{187}\sqrt{979}e^2 \otimes e_7$	{1578, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:56	$0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{242607}e^{12}, \frac{67}{1497}\sqrt{102}e^{13}, \frac{1}{1497}\sqrt{1136722}e^{45},$ $\frac{2}{1497}\sqrt{6834}e^{16} + \frac{2}{1497}\sqrt{239190}e^{23}$	$(\frac{6}{499}, \frac{217}{499}, \frac{12}{499}, -\frac{244}{1497}, -\frac{244}{1497}, \frac{223}{499}, \frac{18}{499}, -\frac{488}{1497}, \frac{229}{499})$ $+ \frac{2}{499}\sqrt{78591}e^2 \otimes e_8$	{12459, 129, 1468, 245679, 2679, 478}
941:56	$0, 0, 0, 0, 0, \frac{1}{45}\sqrt{265}e^{12}, \frac{2}{15}\sqrt{5}e^{13}, \frac{1}{45}\sqrt{205}e^{45},$ $\frac{1}{45}\sqrt{170}e^{16} + \frac{1}{9}\sqrt{3}e^{23}$	$(0, \frac{2}{9}, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, 0, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{1}{45}\sqrt{285}e^2 \otimes e_7 + \frac{1}{45}\sqrt{510}e^1 \otimes e_8$	{123459, 1239, 3478}
941:56	$0, 0, 0, 0, 0, \frac{14}{229}\sqrt{11}e^{12}, \frac{2}{687}\sqrt{7161}e^{13}, \frac{1}{687}\sqrt{35266}e^{45},$ $\frac{14}{229}\sqrt{11}e^{16} + \frac{1}{687}\sqrt{18942}e^{23}$	$(\frac{1}{229}, \frac{22}{229}, \frac{2}{229}, \frac{86}{687}, -\frac{160}{687}, \frac{23}{229}, \frac{3}{229}, -\frac{74}{687}, \frac{24}{229})$ $+ \frac{2}{687}\sqrt{14322}e^1 \otimes e_8 + \frac{2}{687}\sqrt{9471}e^4 \otimes e_7$	{123459, 13456, 2356789, 3578}
941:56	$0, 0, 0, 0, 0, \frac{1}{170}\sqrt{690}e^{12}, \frac{1}{85}\sqrt{70}e^{13}, \frac{1}{170}\sqrt{930}e^{45},$ $\frac{1}{85}\sqrt{205}e^{16} + \frac{1}{34}\sqrt{2}e^{23}$	$(0, \frac{1}{17}, 0, -\frac{3}{17}, \frac{2}{17}, \frac{1}{17}, 0, -\frac{1}{17}, \frac{1}{17})$ $+ \frac{1}{170}\sqrt{610}e^2 \otimes e_7 + \frac{1}{17}\sqrt{10}e^5 \otimes e_9 + \frac{1}{85}\sqrt{365}e^1 \otimes e_8$	{14567, 24689}
941:56	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{570}e^{12}, \frac{2}{119}\sqrt{285}e^{13}, \frac{4}{119}\sqrt{190}e^{45},$ $\frac{2}{119}\sqrt{570}e^{16} + \frac{2}{119}\sqrt{285}e^{23}$	$(\frac{9}{119}, \frac{15}{119}, \frac{18}{119}, \frac{111}{119}, -\frac{79}{119}, \frac{24}{119}, \frac{27}{119}, \frac{32}{119}, \frac{33}{119})$ $+ \frac{190}{119}e^4 \otimes e_5$	{124789, 125789, 14678, 15678, 24689, 25689, 48, 58}
941:56	$0, 0, 0, 0, 0, \frac{1}{50}\sqrt{265}e^{12}, \frac{3}{25}\sqrt{5}e^{13}, \frac{1}{50}\sqrt{205}e^{45},$ $\frac{1}{50}\sqrt{170}e^{16} + \frac{1}{10}\sqrt{3}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{50}\sqrt{285}e^2 \otimes e_7 + \frac{1}{50}\sqrt{510}e^1 \otimes e_8 + \frac{1}{5}e^5 \otimes e_4$	{3478, 3578}
941:56	$0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{6834}e^{12}, \frac{67}{1497}\sqrt{102}e^{13}, \frac{1}{1497}\sqrt{1136722}e^{45},$ $\frac{2}{1497}\sqrt{242607}e^{16} + \frac{2}{1497}\sqrt{239190}e^{23}$	$(\frac{6}{499}, -\frac{59}{499}, \frac{12}{499}, \frac{2}{3}, -\frac{244}{1497}, -\frac{53}{499}, \frac{18}{499}, \frac{754}{1497}, -\frac{47}{499})$ $+ \frac{2}{499}\sqrt{78591}e^4 \otimes e_9$	{12589, 129, 1456, 1468, 256789, 2679, 457, 478}
941:56	$0, 0, 0, 0, 0, \frac{4}{4133}\sqrt{242607}e^{12}, \frac{134}{4133}\sqrt{102}e^{13}, \frac{2}{4133}\sqrt{1136722}e^{45},$ $\frac{4}{4133}\sqrt{6834}e^{16} + \frac{4}{4133}\sqrt{239190}e^{23}$	$(\frac{36}{4133}, \frac{1302}{4133}, \frac{72}{4133}, \frac{651}{4133}, -\frac{1627}{4133}, \frac{1338}{4133}, \frac{108}{4133}, -\frac{976}{4133}, \frac{1374}{4133})$ $+ \frac{12}{4133}\sqrt{78591}e^2 \otimes e_8 + \frac{2278}{4133}e^4 \otimes e_5$	{1468, 1568, 478, 578}
941:56	$0, 0, 0, 0, 0, \frac{5}{1569}\sqrt{1410}e^{12}, \frac{20}{523}\sqrt{5}e^{13}, \frac{5}{1569}\sqrt{5230}e^{45},$ $\frac{5}{1569}\sqrt{1410}e^{16} + \frac{5}{1569}\sqrt{3570}e^{23}$	$(-\frac{25}{523}, \frac{70}{523}, -\frac{50}{523}, -\frac{100}{1569}, \frac{185}{1569}, \frac{45}{523}, -\frac{75}{523}, \frac{85}{1569}, \frac{20}{523})$ $+ \frac{40}{523}\sqrt{5}e^4 \otimes e_7 + \frac{5}{1569}\sqrt{5730}e^2 \otimes e_8 + \frac{5}{1569}\sqrt{5730}e^5 \otimes e_9$	{2679, 578}
941:56	$0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{31255}e^{12}, \frac{14}{3561}\sqrt{4845}e^{13}, \frac{2}{3561}\sqrt{789355}e^{45},$ $\frac{10}{3561}\sqrt{3990}e^{16} + \frac{2}{3561}\sqrt{331170}e^{23}$	$(-\frac{75}{1187}, \frac{401}{1187}, -\frac{150}{1187}, \frac{655}{3561}, -\frac{782}{3561}, \frac{326}{1187}, -\frac{225}{1187}, -\frac{127}{3561}, \frac{251}{1187})$ $+ \frac{2}{1187}\sqrt{127015}e^2 \otimes e_8 + \frac{2}{3561}\sqrt{955605}e^4 \otimes e_7$	{12345, 134689, 2367, 35789}
941:56	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2330}e^{12}, \frac{2}{169}\sqrt{1165}e^{13}, \frac{1}{39}\sqrt{466}e^{45},$ $\frac{2}{169}\sqrt{2330}e^{16} + \frac{2}{507}\sqrt{57318}e^{23}$	$(\frac{19}{169}, \frac{8}{169}, \frac{38}{169}, -\frac{88}{507}, -\frac{88}{507}, \frac{27}{169}, \frac{57}{169}, -\frac{176}{507}, \frac{46}{169})$ $+ \frac{2}{507}\sqrt{49629}e^1 \otimes e_8$	{123459, 1239, 13456, 136, 2346789, 3478}
941:56	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{11}e^{12}, \frac{1}{55}\sqrt{330}e^{13}, \frac{2}{55}\sqrt{55}e^{45},$ $\frac{1}{55}\sqrt{187}e^{16} + \frac{1}{55}\sqrt{330}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{55}\sqrt{429}e^2 \otimes e_7 + \frac{1}{55}\sqrt{561}e^3 \otimes e_8 - \frac{1}{5}e^5 \otimes e_4$	{1478, 1578, 2489, 2589}
941:56	$0, 0, 0, 0, 0, \frac{2}{55}\sqrt{11}e^{12}, \frac{1}{55}\sqrt{330}e^{13}, \frac{2}{55}\sqrt{55}e^{45},$ $\frac{1}{55}\sqrt{187}e^{16} + \frac{1}{55}\sqrt{330}e^{23}$	$(0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{1}{55}\sqrt{429}e^2 \otimes e_7 + \frac{1}{55}\sqrt{561}e^3 \otimes e_8 + \frac{1}{5}e^5 \otimes e_4$	{1478, 1578, 2489, 2589}
941:56	$0, 0, 0, 0, 0, \frac{2}{1109}\sqrt{49714}e^{12}, \frac{28}{1109}\sqrt{318}e^{13}, \frac{4}{1109}\sqrt{4081}e^{45},$ $\frac{4}{1109}\sqrt{6307}e^{16} + \frac{28}{1109}\sqrt{318}e^{23}$	$(-\frac{102}{1109}, \frac{436}{1109}, -\frac{204}{1109}, \frac{459}{1109}, -\frac{283}{1109}, \frac{334}{1109}, -\frac{306}{1109}, \frac{176}{1109}, \frac{232}{1109})$ $+ \frac{2}{1109}\sqrt{224826}e^2 \otimes e_7 + \frac{742}{1109}e^4 \otimes e_5$	{12348, 12358, 34789, 35789}
941:56	$0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{18011}e^{12}, \frac{8}{1219}\sqrt{217}e^{13}, \frac{2}{3657}\sqrt{264523}e^{45},$ $\frac{2}{1219}\sqrt{29078}e^{16} + \frac{14}{3657}\sqrt{465}e^{23}$	$(\frac{61}{1219}, -\frac{79}{1219}, \frac{122}{1219}, \frac{563}{3657}, -\frac{814}{3657}, -\frac{18}{1219}, \frac{183}{1219}, -\frac{251}{3657}, \frac{43}{1219})$ $+ \frac{50}{3657}\sqrt{651}e^1 \otimes e_8 + \frac{6}{1219}\sqrt{3689}e^4 \otimes e_9$	{1239, 13456, 2356789, 3478}
941:56	$0, 0, 0, 0, 0, \frac{2}{1563}\sqrt{23655}e^{12}, \frac{2}{1563}\sqrt{56715}e^{13}, \frac{2}{1563}\sqrt{49495}e^{45},$ $\frac{2}{1563}\sqrt{23655}e^{16} + \frac{10}{521}\sqrt{114}e^{23}$	$(\frac{7}{521}, \frac{33}{521}, \frac{14}{521}, \frac{253}{1563}, -\frac{401}{1563}, \frac{40}{521}, \frac{21}{521}, -\frac{148}{1563}, \frac{47}{521})$ $+ \frac{2}{1563}\sqrt{62130}e^4 \otimes e_7 + \frac{2}{1563}\sqrt{74955}e^3 \otimes e_8$	{1256789, 1578, 2489, 468}
941:56	$0, 0, 0, 0, 0, \frac{7}{51}\sqrt{2}e^{12}, \frac{4}{51}\sqrt{7}e^{13}, \frac{1}{51}\sqrt{238}e^{45},$ $\frac{7}{51}\sqrt{2}e^{16} + \frac{1}{51}\sqrt{210}e^{23}$	$(-\frac{1}{51}, \frac{2}{17}, -\frac{2}{51}, \frac{11}{51}, -\frac{4}{17}, \frac{5}{51}, -\frac{1}{17}, -\frac{1}{51}, \frac{4}{51})$ $+ \frac{1}{51}\sqrt{322}e^2 \otimes e_8 + \frac{1}{51}\sqrt{322}e^4 \otimes e_9$	{129, 1468, 2679, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:56	$0, 0, 0, 0, 0, \frac{14}{1315}\sqrt{349e^{12}}, \frac{2}{1315}\sqrt{16403e^{13}}, \frac{2}{3945}\sqrt{458935e^{45}},$ $\frac{2}{3945}\sqrt{45021e^{16}} + \frac{2}{1315}\sqrt{49558e^{23}}$	$(\frac{89}{1315}, -\frac{153}{1315}, \frac{178}{1315}, \frac{773}{3945}, -\frac{937}{3945}, -\frac{64}{1315}, \frac{267}{1315}, -\frac{164}{3945}, \frac{5}{263})$ $+ \frac{2}{1315}\sqrt{66310e^4} \otimes e_9 + \frac{2}{3945}\sqrt{648093e^3} \otimes e_8$	{123456, 139, 23457, 3679}
941:56	$0, 0, 0, 0, 0, \frac{2}{483}\sqrt{6855e^{12}}, \frac{2}{483}\sqrt{42501e^{13}}, \frac{1}{483}\sqrt{147154e^{45}},$ $\frac{2}{483}\sqrt{6855e^{16}} + \frac{1}{483}\sqrt{13710e^{23}}$	$(-\frac{15}{161}, \frac{6}{23}, -\frac{30}{161}, \frac{2}{3}, -\frac{80}{483}, \frac{27}{161}, -\frac{45}{161}, \frac{242}{483}, \frac{12}{161})$ $+ \frac{2}{483}\sqrt{91857e^4} \otimes e_7$	{1234569, 1234689, 1345, 1348, 235789, 2379, 35678, 367}
941:56	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{3486e^{12}}, \frac{18}{323}\sqrt{83e^{13}}, \frac{8}{323}\sqrt{415e^{45}},$ $\frac{2}{323}\sqrt{3486e^{16}} + \frac{18}{323}\sqrt{83e^{23}}$	$(\frac{39}{323}, -\frac{3}{323}, \frac{78}{323}, \frac{39}{323}, -\frac{127}{323}, \frac{36}{323}, \frac{117}{323}, -\frac{88}{323}, \frac{75}{323})$ $- \frac{166}{323}e^4 \otimes e_5 + \frac{4}{323}\sqrt{4233e^3} \otimes e_8$	{1246789, 1256789, 1478, 1578, 2489, 2589, 468, 568}
941:56	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{3486e^{12}}, \frac{18}{323}\sqrt{83e^{13}}, \frac{8}{323}\sqrt{415e^{45}},$ $\frac{2}{323}\sqrt{3486e^{16}} + \frac{18}{323}\sqrt{83e^{23}}$	$(\frac{39}{323}, -\frac{3}{323}, \frac{78}{323}, \frac{39}{323}, -\frac{127}{323}, \frac{36}{323}, \frac{117}{323}, -\frac{88}{323}, \frac{75}{323})$ $+ \frac{166}{323}e^4 \otimes e_5 + \frac{4}{323}\sqrt{4233e^3} \otimes e_8$	{1246789, 1256789, 1478, 1578, 2489, 2589, 468, 568}
941:56	$0, 0, 0, 0, 0, \frac{1}{120}\sqrt{3486e^{12}}, \frac{3}{40}\sqrt{83e^{13}}, \frac{1}{30}\sqrt{415e^{45}},$ $\frac{1}{120}\sqrt{3486e^{16}} + \frac{3}{40}\sqrt{83e^{23}}$	$(\frac{13}{80}, -\frac{1}{80}, \frac{13}{40}, -\frac{11}{60}, -\frac{11}{60}, \frac{3}{20}, \frac{39}{80}, -\frac{11}{30}, \frac{5}{16})$ $+ \frac{1}{60}\sqrt{4233e^3} \otimes e_8$	{1246789, 1478, 2489, 468}
941:57	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{30e^{12}}, \frac{1}{10}\sqrt{30e^{13}}, \frac{1}{10}\sqrt{15e^{45}},$ $\frac{1}{10}\sqrt{30e^{14}} + \frac{1}{5}\sqrt{10e^{26}}$	$(-\frac{3}{20}, \frac{1}{5}, -\frac{3}{20}, \frac{2}{5}, -\frac{1}{10}, \frac{1}{20}, -\frac{3}{10}, \frac{3}{10}, \frac{1}{4})$ $+ \frac{1}{10}\sqrt{10e^4} \otimes e_5 + \frac{1}{2}\sqrt{3e^2} \otimes e_7$	{123489, 146789, 2468, 3478}
941:57	$0, 0, 0, 0, 0, \frac{14}{51}e^{12}, \frac{8}{51}\sqrt{7e^{13}}, \frac{2}{51}\sqrt{42e^{45}},$ $\frac{2}{51}\sqrt{70e^{14}} + \frac{2}{51}\sqrt{42e^{26}}$	$(-\frac{14}{51}, \frac{2}{17}, \frac{4}{17}, \frac{4}{17}, -\frac{1}{51}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{2}{51}\sqrt{161e^3} \otimes e_9 + \frac{2}{51}\sqrt{161e^4} \otimes e_7$	{123456, 123468, 1345, 1348, 2459, 2489, 4569, 4689}
941:57	$0, 0, 0, 0, 0, \frac{14}{51}e^{12}, \frac{8}{51}\sqrt{7e^{13}}, \frac{2}{51}\sqrt{42e^{45}},$ $\frac{2}{51}\sqrt{70e^{14}} + \frac{2}{51}\sqrt{42e^{26}}$	$(-\frac{14}{51}, \frac{2}{17}, \frac{4}{17}, \frac{4}{17}, -\frac{1}{51}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{2}{51}\sqrt{161e^3} \otimes e_9 - \frac{2}{51}\sqrt{161e^4} \otimes e_7$	{123456, 123468, 1345, 1348, 2459, 2489, 4569, 4689}
941:57	$0, 0, 0, 0, 0, \frac{16}{3419}\sqrt{510e^{12}}, \frac{16}{3419}\sqrt{1047e^{13}}, \frac{16}{3419}\sqrt{973e^{45}},$ $\frac{16}{3419}\sqrt{55e^{14}} + \frac{80}{3419}\sqrt{43e^{26}}$	$(-\frac{360}{3419}, \frac{112}{3419}, \frac{344}{3419}, \frac{224}{3419}, -\frac{8}{3419}, -\frac{248}{3419}, -\frac{16}{3419}, \frac{216}{3419}, -\frac{136}{3419})$ $+ \frac{16}{3419}\sqrt{1074e^3} \otimes e_8 + \frac{288}{3419}\sqrt{2e^5} \otimes e_9 + \frac{32}{3419}\sqrt{345e^2} \otimes e_7$	{146789, 3457}
941:57	$0, 0, 0, 0, 0, \frac{20}{929}\sqrt{5e^{12}}, \frac{20}{929}\sqrt{62e^{13}}, \frac{60}{929}\sqrt{19e^{45}},$ $\frac{20}{929}\sqrt{209e^{14}} + \frac{160}{929}e^{26}$	$(\frac{10}{929}, \frac{10}{929}, -\frac{190}{929}, \frac{20}{929}, \frac{230}{929}, \frac{20}{929}, -\frac{180}{929}, \frac{250}{929}, \frac{30}{929})$ $+ \frac{20}{929}\sqrt{321e^4} \otimes e_7 + \frac{20}{929}\sqrt{322e^5} \otimes e_9 + \frac{60}{929}\sqrt{23e^1} \otimes e_3$	{1279, 1679, 235678, 3578}
941:57	$0, 0, 0, 0, 0, \frac{20}{929}\sqrt{5e^{12}}, \frac{20}{929}\sqrt{62e^{13}}, \frac{60}{929}\sqrt{19e^{45}},$ $\frac{20}{929}\sqrt{209e^{14}} + \frac{160}{929}e^{26}$	$(\frac{10}{929}, \frac{10}{929}, -\frac{190}{929}, \frac{20}{929}, \frac{230}{929}, \frac{20}{929}, -\frac{180}{929}, \frac{250}{929}, \frac{30}{929})$ $- \frac{20}{929}\sqrt{321e^4} \otimes e_7 + \frac{20}{929}\sqrt{322e^5} \otimes e_9 + \frac{60}{929}\sqrt{23e^1} \otimes e_3$	{1279, 1679, 235678, 3578}
941:57	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3e^{12}}, \frac{1}{4}\sqrt{3e^{13}}, \frac{1}{2}e^{45}, \frac{3}{4}\sqrt{2e^{14}} + \frac{1}{2}e^{26}$	$(-\frac{3}{20}, \frac{13}{40}, \frac{9}{40}, \frac{13}{20}, -\frac{3}{5}, \frac{7}{40}, \frac{3}{40}, \frac{1}{20}, \frac{1}{2})$ $+ \frac{1}{4}\sqrt{34e^4} \otimes e_5$	{1235679, 12569, 13579, 159, 235, 257, 356, 567}
941:57	$0, 0, 0, 0, 0, \frac{5}{1193}\sqrt{23e^{12}}, \frac{1}{1193}\sqrt{471e^{13}}, \frac{1}{1193}\sqrt{973e^{45}},$ $\frac{1}{1193}\sqrt{785e^{14}} + \frac{4}{1193}\sqrt{51e^{26}}$	$(-\frac{33}{2386}, \frac{10}{1193}, \frac{9}{2386}, \frac{20}{1193}, -\frac{11}{1193}, -\frac{13}{2386}, -\frac{12}{1193}, \frac{9}{1193}, \frac{7}{2386})$ $+ \frac{13}{1193}\sqrt{7e^2} \otimes e_8 + \frac{1}{1193}\sqrt{723e^5} \otimes e_7 + \frac{6}{1193}\sqrt{7e^3} \otimes e_9$	{146789, 3478}
941:57	$0, 0, 0, 0, 0, \frac{18}{175}\sqrt{5e^{12}}, \frac{2}{175}\sqrt{885e^{13}}, \frac{8}{175}\sqrt{15e^{45}},$ $\frac{2}{175}\sqrt{435e^{14}} + \frac{4}{175}\sqrt{255e^{26}}$	$(-\frac{38}{175}, \frac{16}{175}, \frac{24}{175}, \frac{32}{175}, \frac{3}{175}, -\frac{22}{175}, -\frac{2}{25}, \frac{1}{5}, -\frac{6}{175})$ $+ \frac{16}{175}\sqrt{15e^3} \otimes e_9 + \frac{4}{175}\sqrt{345e^2} \otimes e_7$	{145679, 146789, 3457, 3478}
941:57	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{897e^{12}}, \frac{46}{119}e^{13}, \frac{4}{119}\sqrt{69e^{45}},$ $\frac{2}{119}\sqrt{483e^{14}} + \frac{12}{119}\sqrt{23e^{26}}$	$(\frac{6}{119}, \frac{12}{119}, -\frac{40}{119}, \frac{24}{119}, \frac{3}{119}, \frac{18}{119}, -\frac{2}{7}, \frac{27}{119}, \frac{30}{119})$ $+ \frac{12}{119}\sqrt{46e^2} \otimes e_7 + \frac{8}{119}\sqrt{46e^1} \otimes e_3$	{145679, 146789, 3457, 3478}
941:57	$0, 0, 0, 0, 0, \frac{4}{77}\sqrt{15e^{12}}, \frac{4}{77}\sqrt{30e^{13}}, \frac{4}{77}\sqrt{22e^{45}},$ $\frac{8}{77}\sqrt{7e^{14}} + \frac{20}{77}e^{26}$	$(-\frac{9}{77}, \frac{1}{11}, \frac{8}{77}, \frac{2}{11}, -\frac{2}{11}, -\frac{2}{77}, -\frac{1}{77}, 0, \frac{5}{77})$ $+ \frac{4}{77}\sqrt{30e^3} \otimes e_8 + \frac{4}{77}\sqrt{39e^2} \otimes e_7$	{123459, 146789, 2468, 3457}
941:57	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{714e^{12}}, \frac{4}{497}\sqrt{3927e^{13}}, \frac{12}{71}\sqrt{5e^{45}},$ $\frac{4}{497}\sqrt{70e^{14}} + \frac{12}{497}\sqrt{231e^{26}}$	$(-\frac{68}{497}, -\frac{10}{497}, \frac{80}{497}, -\frac{20}{497}, \frac{180}{497}, -\frac{78}{497}, \frac{12}{497}, \frac{160}{497}, -\frac{88}{497})$ $+ \frac{4}{497}\sqrt{4830e^5} \otimes e_7 + \frac{8}{497}\sqrt{1113e^3} \otimes e_9$	{123568, 1358, 2589, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:57	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{138}e^{12}, \frac{4}{107}\sqrt{3}e^{13}, \frac{12}{107}\sqrt{13}e^{45},$ $\frac{12}{107}\sqrt{10}e^{14} + \frac{12}{107}\sqrt{13}e^{26}$	$(\frac{18}{107}, \frac{2}{107}, -\frac{6}{107}, \frac{4}{107}, -\frac{26}{107}, \frac{20}{107}, \frac{12}{107}, -\frac{22}{107}, \frac{22}{107})$ $+ \frac{4}{107}\sqrt{222}e^2 \otimes e_8 + \frac{8}{107}\sqrt{15}e^1 \otimes e_3$	{12459, 14689, 23456, 348}
941:57	$0, 0, 0, 0, 0, \frac{4}{863}\sqrt{786}e^{12}, \frac{4}{863}\sqrt{3}e^{13}, \frac{12}{863}\sqrt{109}e^{45},$ $\frac{12}{863}\sqrt{58}e^{14} + \frac{12}{863}\sqrt{109}e^{26}$	$(\frac{54}{863}, -\frac{34}{863}, \frac{30}{863}, -\frac{68}{863}, \frac{10}{863}, \frac{20}{863}, \frac{84}{863}, -\frac{58}{863}, -\frac{14}{863})$ $+ \frac{24}{863}\sqrt{21}e^5 \otimes e_9 + \frac{4}{863}\sqrt{1410}e^2 \otimes e_8 + \frac{8}{863}\sqrt{42}e^1 \otimes e_3$	{14689, 23456}
941:57	$0, 0, 0, 0, 0, \frac{4}{607}\sqrt{42}e^{12}, \frac{2}{607}\sqrt{3738}e^{13}, \frac{2}{607}\sqrt{3682}e^{45},$ $\frac{28}{607}\sqrt{13}e^{14} + \frac{14}{607}\sqrt{22}e^{26}$	$(-\frac{24}{607}, -\frac{16}{607}, \frac{61}{607}, -\frac{32}{607}, \frac{65}{607}, -\frac{40}{607}, \frac{37}{607}, \frac{33}{607}, -\frac{56}{607})$ $+ \frac{6}{607}\sqrt{434}e^3 \otimes e_8 + \frac{6}{607}\sqrt{434}e^5 \otimes e_7$	{2379, 2589, 3679, 5689}
941:57	$0, 0, 0, 0, 0, \frac{80}{1361}\sqrt{13}e^{12}, \frac{8}{1361}\sqrt{2717}e^{13}, \frac{40}{1361}\sqrt{195}e^{45},$ $\frac{16}{1361}\sqrt{767}e^{14} + \frac{104}{1361}\sqrt{13}e^{26}$	$(-\frac{200}{1361}, \frac{76}{1361}, -\frac{64}{1361}, \frac{152}{1361}, \frac{368}{1361}, -\frac{124}{1361}, -\frac{264}{1361}, \frac{520}{1361}, -\frac{48}{1361})$ $+ \frac{104}{1361}\sqrt{46}e^5 \otimes e_9 + \frac{8}{1361}\sqrt{8034}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:57	$0, 0, 0, 0, 0, \frac{132}{4187}\sqrt{42}e^{12}, \frac{132}{4187}\sqrt{127}e^{13}, \frac{132}{4187}\sqrt{141}e^{45},$ $\frac{12}{4187}\sqrt{5126}e^{14} + \frac{12}{4187}\sqrt{3355}e^{26}$	$(\frac{924}{4187}, -\frac{6}{79}, -\frac{12}{53}, -\frac{12}{79}, \frac{768}{4187}, \frac{606}{4187}, -\frac{24}{4187}, \frac{132}{4187}, \frac{288}{4187})$ $+ \frac{132}{4187}\sqrt{170}e^5 \otimes e_7 + \frac{24}{4187}\sqrt{5137}e^1 \otimes e_8$	{123459, 134569, 234678, 3478}
941:57	$0, 0, 0, 0, 0, \frac{4}{2095}\sqrt{36186}e^{12}, \frac{4}{2095}\sqrt{66667}e^{13}, \frac{4}{2095}\sqrt{78729}e^{45},$ $\frac{4}{2095}\sqrt{12714}e^{14} + \frac{12}{2095}\sqrt{2119}e^{26}$	$(\frac{444}{2095}, -\frac{66}{2095}, -\frac{172}{419}, -\frac{132}{2095}, \frac{888}{2095}, \frac{378}{2095}, -\frac{416}{2095}, \frac{756}{2095}, \frac{312}{2095})$ $+ \frac{12}{2095}\sqrt{19886}e^5 \otimes e_7 + \frac{8}{2095}\sqrt{29503}e^1 \otimes e_3$	{124789, 146789, 234678, 3478}
941:57	$0, 0, 0, 0, 0, \frac{16}{2287}\sqrt{897}e^{12}, \frac{72}{2287}\sqrt{322}e^{13}, \frac{8}{2287}\sqrt{24886}e^{45},$ $\frac{32}{2287}\sqrt{138}e^{14} + \frac{8}{2287}\sqrt{5106}e^{26}$	$(-\frac{156}{2287}, \frac{252}{2287}, \frac{1008}{2287}, \frac{504}{2287}, -\frac{968}{2287}, \frac{96}{2287}, \frac{852}{2287}, -\frac{464}{2287}, \frac{348}{2287})$ $+ \frac{16}{2287}\sqrt{14835}e^3 \otimes e_8 + \frac{32}{2287}\sqrt{2047}e^4 \otimes e_5$	{125678, 1578, 2589, 5689}
941:57	$0, 0, 0, 0, 0, \frac{4}{1177}\sqrt{1810}e^{12}, \frac{4}{1177}\sqrt{85}e^{13}, \frac{4}{1177}\sqrt{2445}e^{45},$ $\frac{20}{1177}\sqrt{58}e^{14} + \frac{4}{1177}\sqrt{2445}e^{26}$	$(\frac{34}{1177}, -\frac{38}{1177}, \frac{106}{1177}, -\frac{76}{1177}, -\frac{2}{1177}, -\frac{4}{1177}, \frac{140}{1177}, -\frac{78}{1177}, -\frac{42}{1177})$ $+ \frac{20}{1177}\sqrt{138}e^2 \otimes e_8 + \frac{8}{1177}\sqrt{455}e^5 \otimes e_9$	{134689, 146789, 234567, 2456}
941:57	$0, 0, 0, 0, 0, \frac{24}{265}\sqrt{10}e^{12}, \frac{4}{265}\sqrt{615}e^{13}, \frac{12}{265}\sqrt{55}e^{45},$ $\frac{8}{265}\sqrt{435}e^{14} + \frac{12}{265}\sqrt{55}e^{26}$	$(\frac{48}{265}, \frac{26}{265}, -\frac{72}{265}, \frac{52}{265}, -\frac{68}{265}, \frac{74}{265}, -\frac{24}{265}, -\frac{16}{265}, \frac{20}{53})$ $+ \frac{4}{265}\sqrt{1770}e^4 \otimes e_5 + \frac{4}{53}\sqrt{78}e^1 \otimes e_3$	{124, 146, 23469, 349}
941:57	$0, 0, 0, 0, 0, \frac{16}{1373}\sqrt{42}e^{12}, \frac{8}{1373}\sqrt{1353}e^{13}, \frac{24}{1373}\sqrt{119}e^{45},$ $\frac{48}{1373}\sqrt{3}e^{14} + \frac{24}{1373}\sqrt{55}e^{26}$	$(\frac{112}{1373}, -\frac{100}{1373}, \frac{8}{1373}, -\frac{200}{1373}, \frac{216}{1373}, \frac{12}{1373}, \frac{120}{1373}, \frac{16}{1373}, -\frac{88}{1373})$ $+ \frac{104}{1373}\sqrt{6}e^3 \otimes e_9 + \frac{16}{1373}\sqrt{339}e^5 \otimes e_7 + \frac{24}{1373}\sqrt{154}e^1 \otimes e_8$	{234678, 3478}
941:57	$0, 0, 0, 0, 0, \frac{3}{881}\sqrt{515}e^{12}, \frac{3}{881}\sqrt{379}e^{13}, \frac{3}{881}\sqrt{905}e^{45},$ $\frac{3}{881}\sqrt{813}e^{14} + \frac{12}{881}\sqrt{43}e^{26}$	$(-\frac{33}{1762}, \frac{24}{881}, -\frac{51}{1762}, \frac{48}{881}, -\frac{33}{881}, \frac{15}{1762}, -\frac{42}{881}, \frac{15}{881}, \frac{63}{1762})$ $+ \frac{3}{881}\sqrt{1063}e^2 \otimes e_8 + \frac{3}{881}\sqrt{651}e^5 \otimes e_7 + \frac{6}{881}\sqrt{35}e^1 \otimes e_3$	{123459, 2456}
941:57	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{30}e^{12}, \frac{1}{21}\sqrt{30}e^{13}, \frac{5}{21}\sqrt{3}e^{45},$ $\frac{1}{7}\sqrt{3}e^{14} + \frac{2}{7}e^{26}$	$(\frac{5}{21}, -\frac{1}{7}, 0, -\frac{2}{7}, \frac{5}{21}, \frac{2}{21}, \frac{5}{21}, -\frac{1}{21}, -\frac{1}{21})$ $- \frac{1}{21}\sqrt{105}e^5 \otimes e_9 + \frac{1}{7}\sqrt{13}e^1 \otimes e_8$	{1239, 1279, 1369, 1679, 235678, 2568, 3578, 58}
941:57	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{30}e^{12}, \frac{1}{21}\sqrt{30}e^{13}, \frac{5}{21}\sqrt{3}e^{45},$ $\frac{1}{7}\sqrt{3}e^{14} + \frac{2}{7}e^{26}$	$(\frac{5}{21}, -\frac{1}{7}, 0, -\frac{2}{7}, \frac{5}{21}, \frac{2}{21}, \frac{5}{21}, -\frac{1}{21}, -\frac{1}{21})$ $+ \frac{1}{21}\sqrt{105}e^5 \otimes e_9 + \frac{1}{7}\sqrt{13}e^1 \otimes e_8$	{1239, 1279, 1369, 1679, 235678, 2568, 3578, 58}
941:57	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{165}e^{12}, \frac{2}{43}\sqrt{165}e^{13}, \frac{4}{43}\sqrt{22}e^{45},$ $\frac{2}{43}\sqrt{187}e^{14} + \frac{4}{43}\sqrt{55}e^{26}$	$(-\frac{6}{43}, \frac{8}{43}, -\frac{8}{43}, \frac{16}{43}, -\frac{1}{43}, \frac{2}{43}, -\frac{14}{43}, \frac{15}{43}, \frac{10}{43})$ $+ \frac{12}{43}\sqrt{11}e^2 \otimes e_7$	{123459, 123489, 145679, 146789, 2456, 2468, 3457, 3478}
941:57	$0, 0, 0, 0, 0, \frac{16}{227}\sqrt{53}e^{12}, \frac{24}{227}\sqrt{2}e^{13}, \frac{8}{227}\sqrt{218}e^{45},$ $\frac{80}{227}\sqrt{2}e^{14} + \frac{8}{227}\sqrt{218}e^{26}$	$(\frac{18}{227}, \frac{12}{227}, \frac{24}{227}, \frac{24}{227}, -\frac{76}{227}, \frac{30}{227}, \frac{42}{227}, -\frac{52}{227}, \frac{42}{227})$ $+ \frac{16}{227}\sqrt{97}e^2 \otimes e_8$	{123459, 124579, 134689, 146789, 234567, 2456, 3478, 48}
941:57	$0, 0, 0, 0, 0, \frac{8}{903}\sqrt{1003}e^{12}, \frac{8}{903}\sqrt{1003}e^{13}, \frac{2}{903}\sqrt{12449}e^{45},$ $\frac{2}{903}\sqrt{10915}e^{14} + \frac{4}{903}\sqrt{3658}e^{26}$	$(\frac{89}{903}, \frac{13}{301}, -\frac{8}{43}, \frac{26}{301}, -\frac{107}{903}, \frac{128}{903}, -\frac{79}{903}, -\frac{29}{903}, \frac{167}{903})$ $+ \frac{2}{903}\sqrt{26845}e^2 \otimes e_7 + \frac{4}{903}\sqrt{5074}e^1 \otimes e_8$	{123459, 145679, 2468, 3478}
941:57	$0, 0, 0, 0, 0, \frac{11}{70}\sqrt{15}e^{12}, \frac{11}{70}\sqrt{15}e^{13}, \frac{11}{35}\sqrt{5}e^{45},$ $\frac{1}{35}\sqrt{110}e^{14} + \frac{1}{70}\sqrt{330}e^{26}$	$(\frac{33}{70}, -\frac{13}{140}, -\frac{1}{20}, -\frac{13}{70}, -\frac{9}{70}, \frac{53}{140}, \frac{59}{140}, -\frac{11}{35}, \frac{2}{7})$ $+ \frac{1}{70}\sqrt{6270}e^1 \otimes e_8$	{1239, 1279, 1369, 1679, 235678, 2568, 3578, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:57	$0, 0, 0, 0, 0, \frac{8}{127}\sqrt{74}e^{12}, \frac{24}{127}e^{13}, \frac{8}{127}\sqrt{77}e^{45},$ $\frac{32}{127}\sqrt{5}e^{14} + \frac{8}{127}\sqrt{77}e^{26}$	$(\frac{18}{127}, 0, \frac{12}{127}, 0, -\frac{32}{127}, \frac{18}{127}, \frac{30}{127}, -\frac{32}{127}, \frac{18}{127})$ $+ \frac{16}{127}\sqrt{6}e^4 \otimes e_5 + \frac{8}{127}\sqrt{130}e^2 \otimes e_8$	{123459, 124579, 234567, 2456}
941:57	$0, 0, 0, 0, 0, \frac{32}{2483}\sqrt{542}e^{12}, \frac{32}{2483}\sqrt{329}e^{13}, \frac{32}{2483}\sqrt{397}e^{45},$ $\frac{32}{2483}\sqrt{202}e^{14} + \frac{32}{2483}\sqrt{753}e^{26}$	$(\frac{16}{2483}, \frac{32}{2483}, -\frac{496}{2483}, \frac{64}{2483}, \frac{592}{2483}, \frac{48}{2483}, -\frac{480}{2483}, \frac{656}{2483}, \frac{80}{2483})$ $+ \frac{32}{2483}\sqrt{426}e^1 \otimes e_3 + \frac{32}{2483}\sqrt{730}e^5 \otimes e_9 + \frac{64}{2483}\sqrt{267}e^2 \otimes e_7$	{146789, 3457}
941:57	$0, 0, 0, 0, 0, \frac{32}{895}\sqrt{15}e^{12}, \frac{72}{895}\sqrt{15}e^{13}, \frac{8}{895}\sqrt{1295}e^{45},$ $\frac{8}{895}\sqrt{590}e^{14} + \frac{24}{895}\sqrt{5}e^{26}$	$(\frac{96}{895}, \frac{52}{895}, -\frac{152}{895}, \frac{104}{895}, -\frac{168}{895}, \frac{148}{895}, -\frac{56}{895}, \frac{64}{895}, \frac{40}{179})$ $+ \frac{24}{895}\sqrt{230}e^1 \otimes e_8 + \frac{8}{179}\sqrt{78}e^4 \otimes e_7$	{12345, 13456, 24689, 489}
941:57	$0, 0, 0, 0, 0, \frac{4}{2191}\sqrt{38390}e^{12}, \frac{44}{2191}\sqrt{105}e^{13}, \frac{20}{2191}\sqrt{1705}e^{45},$ $\frac{4}{2191}\sqrt{34430}e^{14} + \frac{4}{2191}\sqrt{51645}e^{26}$	$(-\frac{30}{2191}, \frac{62}{2191}, \frac{534}{2191}, \frac{124}{2191}, -\frac{502}{2191}, \frac{32}{2191}, \frac{72}{313}, -\frac{54}{313}, \frac{94}{2191})$ $+ \frac{4}{2191}\sqrt{78430}e^2 \otimes e_8 + \frac{8}{2191}\sqrt{6765}e^3 \otimes e_9$	{124579, 146789, 234567, 3478}
941:57	$0, 0, 0, 0, 0, \frac{8}{1153}\sqrt{2414}e^{12}, \frac{8}{1153}\sqrt{1717}e^{13}, \frac{8}{1153}\sqrt{2159}e^{45},$ $\frac{8}{1153}\sqrt{4862}e^{14} + \frac{8}{1153}\sqrt{2159}e^{26}$	$(\frac{284}{1153}, -\frac{144}{1153}, -\frac{260}{1153}, -\frac{288}{1153}, \frac{540}{1153}, \frac{140}{1153}, \frac{24}{1153}, \frac{252}{1153}, -\frac{4}{1153})$ $+ \frac{72}{1153}\sqrt{102}e^1 \otimes e_3 + \frac{8}{1153}\sqrt{9214}e^5 \otimes e_9$	{129, 169, 23568, 358}
941:57	$0, 0, 0, 0, 0, \frac{4}{2693}\sqrt{610}e^{12}, \frac{4}{2693}\sqrt{157}e^{13}, \frac{4}{2693}\sqrt{1045}e^{45},$ $\frac{4}{2693}\sqrt{442}e^{14} + \frac{4}{2693}\sqrt{917}e^{26}$	$(-\frac{70}{2693}, \frac{18}{2693}, \frac{98}{2693}, \frac{36}{2693}, -\frac{26}{2693}, -\frac{52}{2693}, \frac{28}{2693}, \frac{10}{2693}, -\frac{34}{2693})$ $+ \frac{32}{2693}\sqrt{6}e^4 \otimes e_7 + \frac{4}{2693}\sqrt{1290}e^2 \otimes e_8 + \frac{8}{2693}\sqrt{191}e^5 \otimes e_9$	{134689, 2456}
941:57	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{4845}e^{13}, \frac{8}{673}\sqrt{4879}e^{45},$ $\frac{16}{673}\sqrt{799}e^{14} + \frac{8}{673}\sqrt{1717}e^{26}$	$(\frac{12}{673}, \frac{8}{673}, -\frac{170}{673}, \frac{16}{673}, \frac{386}{673}, \frac{20}{673}, -\frac{158}{673}, \frac{402}{673}, \frac{28}{673})$ $+ \frac{24}{673}\sqrt{1054}e^5 \otimes e_7$	{123459, 124789, 134569, 146789, 234678, 2456, 3478, 45}
941:57	$0, 0, 0, 0, 0, \frac{4}{261}\sqrt{462}e^{12}, \frac{4}{261}\sqrt{462}e^{13}, \frac{2}{87}\sqrt{209}e^{45},$ $\frac{2}{87}\sqrt{187}e^{14} + \frac{4}{261}\sqrt{858}e^{26}$	$(-\frac{1}{9}, \frac{13}{261}, -\frac{8}{87}, \frac{26}{261}, \frac{7}{29}, -\frac{16}{261}, -\frac{53}{261}, \frac{89}{261}, -\frac{1}{87})$ $+ \frac{2}{87}\sqrt{517}e^2 \otimes e_7 + \frac{44}{261}\sqrt{6}e^5 \otimes e_9$	{123489, 146789, 2456, 3457}
941:57	$0, 0, 0, 0, 0, \frac{4}{2191}\sqrt{38390}e^{12}, \frac{44}{2191}\sqrt{105}e^{13}, \frac{4}{2191}\sqrt{51645}e^{45},$ $\frac{4}{2191}\sqrt{34430}e^{14} + \frac{4}{2191}\sqrt{1705}e^{26}$	$(-\frac{30}{2191}, \frac{226}{2191}, \frac{6}{313}, \frac{452}{2191}, -\frac{666}{2191}, \frac{28}{2191}, \frac{12}{2191}, -\frac{214}{2191}, \frac{422}{2191})$ $+ \frac{4}{2191}\sqrt{78430}e^2 \otimes e_8 + \frac{8}{2191}\sqrt{6765}e^4 \otimes e_7$	{123459, 134689, 2456, 48}
941:57	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{4845}e^{13}, \frac{8}{673}\sqrt{4879}e^{45},$ $\frac{16}{673}\sqrt{799}e^{14} + \frac{8}{673}\sqrt{1717}e^{26}$	$(\frac{12}{673}, \frac{8}{673}, \frac{388}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{20}{673}, \frac{400}{673}, -\frac{156}{673}, \frac{28}{673})$ $+ \frac{24}{673}\sqrt{1054}e^3 \otimes e_8$	{123459, 124789, 134569, 146789, 234567, 2468, 3457, 48}
941:57	$0, 0, 0, 0, 0, \frac{12}{317}e^{12}, \frac{8}{317}\sqrt{15}e^{13}, \frac{2}{317}\sqrt{362}e^{45},$ $\frac{2}{317}\sqrt{182}e^{14} + \frac{8}{317}\sqrt{21}e^{26}$	$(\frac{18}{317}, -\frac{4}{317}, -\frac{34}{317}, -\frac{8}{317}, \frac{18}{317}, \frac{14}{317}, -\frac{16}{317}, \frac{10}{317}, \frac{10}{317})$ $+ \frac{2}{317}\sqrt{330}e^5 \otimes e_9 + \frac{2}{317}\sqrt{426}e^1 \otimes e_8 + \frac{4}{317}\sqrt{102}e^4 \otimes e_7$	{1279, 1679, 235678, 3578}
941:57	$0, 0, 0, 0, 0, \frac{12}{317}e^{12}, \frac{8}{317}\sqrt{15}e^{13}, \frac{2}{317}\sqrt{362}e^{45},$ $\frac{2}{317}\sqrt{182}e^{14} + \frac{4}{317}\sqrt{21}e^{26}$	$(\frac{18}{317}, -\frac{4}{317}, -\frac{34}{317}, -\frac{8}{317}, \frac{18}{317}, \frac{14}{317}, -\frac{16}{317}, \frac{10}{317}, \frac{10}{317})$ $- \frac{2}{317}\sqrt{330}e^5 \otimes e_9 + \frac{2}{317}\sqrt{426}e^1 \otimes e_8 + \frac{4}{317}\sqrt{102}e^4 \otimes e_7$	{1279, 1679, 235678, 3578}
941:57	$0, 0, 0, 0, 0, \frac{4}{3583}\sqrt{92418}e^{12}, \frac{12}{3583}\sqrt{11183}e^{13}, \frac{12}{3583}\sqrt{6541}e^{45},$ $\frac{8}{3583}\sqrt{61401}e^{14} + \frac{4}{3583}\sqrt{69841}e^{26}$	$(-\frac{876}{3583}, \frac{434}{3583}, \frac{1680}{3583}, \frac{868}{3583}, -\frac{820}{3583}, -\frac{442}{3583}, \frac{804}{3583}, \frac{48}{3583}, -\frac{8}{3583})$ $+ \frac{4}{3583}\sqrt{300886}e^4 \otimes e_5 + \frac{4}{3583}\sqrt{386130}e^3 \otimes e_9$	{12346, 134, 249, 469}
941:57	$0, 0, 0, 0, 0, \frac{72}{4235}\sqrt{106}e^{12}, \frac{72}{4235}\sqrt{533}e^{13}, \frac{24}{4235}\sqrt{4479}e^{45},$ $\frac{48}{4235}\sqrt{183}e^{14} + \frac{24}{4235}\sqrt{645}e^{26}$	$(-\frac{636}{4235}, \frac{72}{605}, \frac{156}{847}, \frac{144}{605}, -\frac{156}{605}, -\frac{12}{385}, \frac{144}{4235}, -\frac{12}{605}, \frac{372}{4235})$ $+ \frac{192}{4235}\sqrt{87}e^4 \otimes e_7 + \frac{24}{4235}\sqrt{5934}e^3 \otimes e_8$	{125678, 1578, 2379, 3679}
941:57	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{35}e^{12}, \frac{1}{59}\sqrt{21}e^{13}, \frac{1}{59}\sqrt{55}e^{45},$ $\frac{1}{59}\sqrt{47}e^{14} + \frac{1}{59}\sqrt{42}e^{26}$	$(\frac{3}{118}, \frac{1}{59}, -\frac{9}{118}, \frac{2}{59}, -\frac{2}{59}, \frac{5}{118}, -\frac{3}{59}, 0, \frac{7}{118})$ $+ \frac{1}{59}\sqrt{39}e^5 \otimes e_7 + \frac{1}{59}\sqrt{67}e^2 \otimes e_8$	{123459, 146789, 2456, 3478}
941:57	$0, 0, 0, 0, 0, \frac{20}{379}\sqrt{3}e^{12}, \frac{4}{379}\sqrt{303}e^{13}, \frac{20}{379}\sqrt{15}e^{45},$ $\frac{8}{379}\sqrt{3}e^{14} + \frac{4}{379}\sqrt{123}e^{26}$	$(-\frac{50}{379}, \frac{14}{379}, \frac{54}{379}, \frac{28}{379}, \frac{2}{379}, -\frac{36}{379}, \frac{4}{379}, \frac{30}{379}, -\frac{22}{379})$ $+ \frac{20}{379}\sqrt{15}e^3 \otimes e_8 - \frac{4}{379}\sqrt{291}e^5 \otimes e_9 + \frac{4}{379}\sqrt{381}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}
941:57	$0, 0, 0, 0, 0, \frac{20}{379}\sqrt{3}e^{12}, \frac{4}{379}\sqrt{303}e^{13}, \frac{20}{379}\sqrt{15}e^{45},$ $\frac{8}{379}\sqrt{3}e^{14} + \frac{4}{379}\sqrt{123}e^{26}$	$(-\frac{50}{379}, \frac{14}{379}, \frac{54}{379}, \frac{28}{379}, \frac{2}{379}, -\frac{36}{379}, \frac{4}{379}, \frac{30}{379}, -\frac{22}{379})$ $+ \frac{20}{379}\sqrt{15}e^3 \otimes e_8 + \frac{4}{379}\sqrt{291}e^5 \otimes e_9 + \frac{4}{379}\sqrt{381}e^4 \otimes e_7$	{123456, 1345, 2489, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:57	$0, 0, 0, 0, 0, \frac{1}{38}\sqrt{35}e^{12}, \frac{1}{38}\sqrt{35}e^{13}, \frac{1}{38}\sqrt{770}e^{45},$ $\frac{5}{38}\sqrt{14}e^{14} + \frac{1}{38}\sqrt{770}e^{26}$	$(\frac{1}{38}, -\frac{9}{76}, \frac{13}{76}, -\frac{9}{38}, \frac{27}{38}, -\frac{7}{76}, \frac{15}{76}, \frac{9}{19}, -\frac{4}{19})$ $+ \frac{1}{38}\sqrt{2170}e^5 \otimes e_9$	{1239, 1279, 1369, 1679, 235678, 2568, 3578, 58}
941:57	$0, 0, 0, 0, 0, \frac{8}{1193}\sqrt{130}e^{12}, \frac{8}{1193}\sqrt{3497}e^{13}, \frac{8}{1193}\sqrt{5603}e^{45},$ $\frac{80}{1193}\sqrt{13}e^{14} + \frac{56}{1193}\sqrt{65}e^{26}$	$(-\frac{20}{1193}, -\frac{96}{1193}, \frac{428}{1193}, -\frac{192}{1193}, \frac{204}{1193}, -\frac{116}{1193}, \frac{408}{1193}, \frac{12}{1193}, -\frac{212}{1193})$ $+ \frac{24}{1193}\sqrt{806}e^3 \otimes e_8 + \frac{32}{1193}\sqrt{403}e^5 \otimes e_9$	{125678, 1578, 2379, 3679}
941:57	$0, 0, 0, 0, 0, \frac{4}{823}\sqrt{4179}e^{12}, \frac{4}{823}\sqrt{4179}e^{13}, \frac{8}{823}\sqrt{1393}e^{45},$ $\frac{16}{823}\sqrt{597}e^{14} + \frac{2}{823}\sqrt{6567}e^{26}$	$(\frac{168}{823}, \frac{42}{823}, \frac{9}{823}, \frac{84}{823}, -\frac{314}{823}, \frac{210}{823}, \frac{177}{823}, -\frac{230}{823}, \frac{252}{823})$ $+ \frac{2}{823}\sqrt{58705}e^4 \otimes e_5 + \frac{2}{823}\sqrt{86565}e^1 \otimes e_8$	{2346789, 24689, 34789, 489}
941:57	$0, 0, 0, 0, 0, \frac{96}{3707}\sqrt{55}e^{12}, \frac{48}{3707}\sqrt{1005}e^{13}, \frac{48}{3707}\sqrt{555}e^{45},$ $\frac{96}{3707}\sqrt{118}e^{14} + \frac{48}{3707}\sqrt{511}e^{26}$	$(\frac{40}{337}, -\frac{296}{3707}, \frac{1000}{3707}, -\frac{592}{3707}, -\frac{120}{3707}, \frac{144}{3707}, \frac{1440}{3707}, -\frac{712}{3707}, -\frac{152}{3707})$ $+ \frac{48}{3707}\sqrt{1570}e^3 \otimes e_9 + \frac{48}{3707}\sqrt{1702}e^1 \otimes e_8$	{1279, 1679, 235678, 3578}
941:57	$0, 0, 0, 0, 0, \frac{2}{209}\sqrt{6441}e^{12}, \frac{2}{209}\sqrt{3503}e^{13}, \frac{4}{209}\sqrt{339}e^{45},$ $\frac{2}{209}\sqrt{7797}e^{14} + \frac{4}{209}\sqrt{339}e^{26}$	$(\frac{6}{11}, -\frac{12}{209}, -\frac{112}{209}, -\frac{24}{209}, \frac{45}{209}, \frac{102}{209}, \frac{2}{209}, \frac{21}{209}, \frac{90}{209})$ $+ \frac{8}{209}\sqrt{1243}e^1 \otimes e_3$	{124, 12458, 14568, 146, 2345689, 23469, 34589, 349}
941:58	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{730}e^{12}, \frac{1}{77}\sqrt{4234}e^{13}, \frac{2}{77}\sqrt{949}e^{45},$ $\frac{1}{77}\sqrt{730}e^{16} + \frac{1}{77}\sqrt{146}e^{24}$	$(-\frac{6}{77}, \frac{19}{77}, \frac{48}{77}, -\frac{12}{77}, -\frac{13}{77}, \frac{13}{77}, \frac{6}{11}, -\frac{25}{77}, \frac{1}{11})$ $+ \frac{8}{77}\sqrt{146}e^3 \otimes e_8$	{1234569, 1246789, 1345, 1478, 234579, 2489, 34567, 468}
941:58	$0, 0, 0, 0, 0, \frac{4}{35}\sqrt{26}e^{12}, \frac{8}{35}\sqrt{2}e^{13}, \frac{16}{35}e^{45},$ $\frac{4}{35}\sqrt{26}e^{16} + \frac{8}{35}\sqrt{5}e^{24}$	$(\frac{3}{35}, \frac{1}{35}, -\frac{13}{35}, \frac{6}{35}, \frac{6}{35}, \frac{4}{35}, -\frac{2}{7}, \frac{12}{35}, \frac{1}{5})$ $+ \frac{4}{35}\sqrt{42}e^1 \otimes e_3 + \frac{8}{35}\sqrt{5}e^5 \otimes e_7$	{12459, 1456, 234569, 345}
941:58	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{730}e^{12}, \frac{1}{77}\sqrt{4234}e^{13}, \frac{2}{77}\sqrt{949}e^{45},$ $\frac{1}{77}\sqrt{730}e^{16} + \frac{1}{77}\sqrt{146}e^{24}$	$(-\frac{6}{77}, \frac{19}{77}, -\frac{16}{77}, -\frac{12}{77}, \frac{51}{77}, \frac{13}{77}, -\frac{2}{7}, \frac{39}{77}, \frac{1}{11})$ $+ \frac{8}{77}\sqrt{146}e^5 \otimes e_7$	{1234569, 1246789, 1345, 1478, 234789, 2459, 34678, 456}
941:58	$0, 0, 0, 0, 0, \frac{9}{3989}\sqrt{1590}e^{12}, \frac{9}{3989}\sqrt{1486}e^{13}, \frac{36}{3989}\sqrt{177}e^{45},$ $\frac{9}{3989}\sqrt{1930}e^{16} + \frac{9}{3989}\sqrt{1538}e^{24}$	$(-\frac{144}{3989}, \frac{333}{3989}, \frac{126}{3989}, -\frac{288}{3989}, \frac{63}{3989}, \frac{189}{3989}, -\frac{18}{3989}, -\frac{225}{3989}, \frac{45}{3989})$ $+ \frac{180}{3989}\sqrt{10}e^1 \otimes e_8 + \frac{18}{3989}\sqrt{255}e^3 \otimes e_9 + \frac{72}{3989}\sqrt{35}e^5 \otimes e_7$	{13456, 3478}
941:58	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{55}e^{12}, \frac{11}{19}e^{13}, \frac{1}{19}\sqrt{55}e^{45},$ $\frac{1}{19}\sqrt{55}e^{16} + \frac{2}{19}\sqrt{22}e^{24}$	$(\frac{3}{38}, \frac{1}{38}, \frac{6}{19}, \frac{3}{19}, -\frac{8}{19}, \frac{2}{19}, \frac{15}{38}, -\frac{5}{19}, \frac{7}{38})$ $+ \frac{1}{19}\sqrt{165}e^4 \otimes e_5 + \frac{1}{19}\sqrt{209}e^3 \otimes e_8$	{1256789, 1578, 2589, 568}
941:58	$0, 0, 0, 0, 0, \frac{20}{2809}\sqrt{3302}e^{12}, \frac{80}{2809}\sqrt{143}e^{13}, \frac{30}{2809}\sqrt{897}e^{45},$ $\frac{40}{2809}\sqrt{1105}e^{16} + \frac{90}{2809}\sqrt{91}e^{24}$	$(\frac{105}{2809}, -\frac{185}{2809}, -\frac{545}{2809}, \frac{210}{2809}, \frac{675}{2809}, -\frac{80}{2809}, -\frac{440}{2809}, \frac{885}{2809}, \frac{25}{2809})$ $+ \frac{10}{2809}\sqrt{19669}e^1 \otimes e_3 + \frac{20}{2809}\sqrt{3354}e^5 \otimes e_9$	{12489, 1456, 234689, 345}
941:58	$0, 0, 0, 0, 0, \frac{252}{1291}e^{12}, \frac{18}{1291}\sqrt{777}e^{13}, \frac{9}{1291}\sqrt{1498}e^{45},$ $\frac{1291}{1291}\sqrt{462}e^{16} + \frac{9}{1291}\sqrt{5110}e^{24}$	$(-\frac{161}{1291}, \frac{334}{1291}, -\frac{72}{1291}, -\frac{322}{1291}, \frac{579}{1291}, \frac{173}{1291}, -\frac{233}{1291}, \frac{257}{1291}, \frac{12}{1291})$ $+ \frac{36}{1291}\sqrt{469}e^5 \otimes e_9 + \frac{99}{1291}\sqrt{70}e^2 \otimes e_7$	{1239, 15678, 269, 3578}
941:58	$0, 0, 0, 0, 0, \frac{4}{437}\sqrt{6090}e^{12}, \frac{8}{437}\sqrt{885}e^{13}, \frac{16}{437}\sqrt{105}e^{45},$ $\frac{4}{437}\sqrt{6090}e^{16} + \frac{8}{437}\sqrt{870}e^{24}$	$(\frac{87}{437}, -\frac{35}{437}, -\frac{153}{437}, \frac{174}{437}, -\frac{66}{437}, \frac{52}{437}, -\frac{66}{437}, \frac{108}{437}, \frac{139}{437})$ $+ \frac{4}{437}\sqrt{9690}e^1 \otimes e_3 + \frac{8}{437}\sqrt{465}e^4 \otimes e_5$	{12489, 1468, 234689, 348}
941:58	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{39634}e^{13}, \frac{38}{377}\sqrt{7}e^{45},$ $\frac{1}{377}\sqrt{17290}e^{16} + \frac{1}{377}\sqrt{22078}e^{24}$	$(-\frac{42}{377}, \frac{139}{377}, \frac{48}{377}, -\frac{84}{377}, -\frac{1}{377}, \frac{97}{377}, \frac{6}{377}, -\frac{85}{377}, \frac{55}{377})$ $+ \frac{6}{377}\sqrt{1330}e^2 \otimes e_7 + \frac{8}{377}\sqrt{665}e^3 \otimes e_8$	{12369, 1578, 2589, 367}
941:58	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{2}{35}\sqrt{39}e^{45},$ $\frac{2}{35}\sqrt{21}e^{16} + \frac{4}{35}\sqrt{3}e^{24}$	$(\frac{3}{35}, \frac{1}{35}, -\frac{3}{35}, \frac{6}{35}, -\frac{9}{35}, \frac{4}{35}, 0, -\frac{3}{35}, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{33}e^4 \otimes e_7 + \frac{4}{35}\sqrt{15}e^1 \otimes e_8$	{123459, 13456, 24689, 48}
941:58	$0, 0, 0, 0, 0, \frac{1}{437}\sqrt{29290}e^{12}, \frac{1}{437}\sqrt{37410}e^{13}, \frac{58}{437}\sqrt{5}e^{45},$ $\frac{5}{437}\sqrt{290}e^{16} + \frac{3}{437}\sqrt{6670}e^{24}$	$(\frac{30}{437}, -\frac{73}{437}, \frac{132}{437}, \frac{60}{437}, -\frac{85}{437}, -\frac{43}{437}, \frac{162}{437}, -\frac{25}{437}, -\frac{13}{437})$ $+ \frac{2}{437}\sqrt{16530}e^3 \otimes e_9 + \frac{4}{437}\sqrt{3190}e^4 \otimes e_5$	{125679, 135, 259, 3567}
941:58	$0, 0, 0, 0, 0, \frac{12}{211}\sqrt{7}e^{12}, \frac{2}{211}\sqrt{410}e^{13}, \frac{2}{211}\sqrt{30}e^{45},$ $\frac{2}{211}\sqrt{134}e^{16} + \frac{40}{211}e^{24}$	$(\frac{15}{422}, -\frac{47}{422}, -\frac{1}{422}, \frac{15}{211}, \frac{6}{211}, -\frac{16}{211}, \frac{7}{211}, \frac{21}{211}, -\frac{17}{422})$ $+ \frac{2}{211}\sqrt{354}e^3 \otimes e_9 + \frac{4}{211}\sqrt{109}e^4 \otimes e_7$	{1256789, 12679, 35678, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:58	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{138}e^{12}, \frac{1}{19}\sqrt{138}e^{13}, \frac{2}{19}\sqrt{23}e^{45},$ $\frac{1}{19}\sqrt{138}e^{16} + \frac{3}{19}\sqrt{46}e^{24}$	$(\frac{6}{19}, -\frac{3}{19}, 0, \frac{12}{19}, -\frac{11}{19}, \frac{3}{19}, \frac{6}{19}, \frac{1}{19}, \frac{9}{19})$ $+ \frac{4}{19}\sqrt{46}e^4 \otimes e_5$	{123569, 125679, 135, 157, 23579, 259, 3567, 56}
941:58	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{17290}e^{12}, \frac{1}{377}\sqrt{39634}e^{13}, \frac{38}{377}\sqrt{7}e^{45},$ $\frac{1}{377}\sqrt{1330}e^{16} + \frac{1}{377}\sqrt{22078}e^{24}$	$(-\frac{42}{377}, \frac{19}{377}, \frac{68}{377}, -\frac{84}{377}, \frac{159}{377}, -\frac{23}{377}, \frac{2}{29}, \frac{75}{377}, -\frac{5}{29})$ $+ \frac{6}{377}\sqrt{1330}e^3 \otimes e_9 + \frac{8}{377}\sqrt{665}e^5 \otimes e_7$	{12679, 1358, 2589, 367}
941:58	$0, 0, 0, 0, 0, \frac{10}{2809}\sqrt{6461}e^{12}, \frac{10}{2809}\sqrt{10517}e^{13}, \frac{30}{2809}\sqrt{897}e^{45},$ $\frac{10}{2809}\sqrt{221}e^{16} + \frac{10}{2809}\sqrt{12298}e^{24}$	$(\frac{105}{2809}, -\frac{185}{2809}, \frac{545}{2809}, \frac{210}{2809}, \frac{675}{2809}, -\frac{80}{2809}, \frac{440}{2809}, \frac{885}{2809}, \frac{25}{2809})$ $+ \frac{10}{2809}\sqrt{19669}e^4 \otimes e_7 + \frac{20}{2809}\sqrt{3354}e^5 \otimes e_9$	{12679, 1578, 2379, 35678}
941:58	$0, 0, 0, 0, 0, \frac{14}{3097}\sqrt{4686}e^{12}, \frac{4}{3097}\sqrt{16401}e^{13}, \frac{2}{3097}\sqrt{251482}e^{45},$ $\frac{2}{3097}\sqrt{171039}e^{16} + \frac{60}{3097}\sqrt{781}e^{24}$	$(\frac{168}{3097}, \frac{672}{3097}, \frac{243}{3097}, \frac{336}{3097}, -\frac{1226}{3097}, \frac{840}{3097}, \frac{411}{3097}, -\frac{890}{3097}, \frac{1008}{3097})$ $+ \frac{18}{3097}\sqrt{14839}e^2 \otimes e_8 + \frac{2}{3097}\sqrt{961411}e^4 \otimes e_5$	{134689, 146789, 34789, 489}
941:58	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10}e^{12}, \frac{1}{25}\sqrt{30}e^{13}, \frac{4}{25}\sqrt{5}e^{45},$ $\frac{1}{25}\sqrt{70}e^{16} + \frac{1}{5}\sqrt{2}e^{24}$	$(0, \frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{25}\sqrt{15}e^2 \otimes e_7 + \frac{4}{25}\sqrt{10}e^1 \otimes e_8$	{123459, 14567, 24689, 3478}
941:58	$0, 0, 0, 0, 0, \frac{21}{347}\sqrt{10}e^{12}, \frac{3}{347}\sqrt{1946}e^{13}, \frac{6}{347}\sqrt{413}e^{45},$ $\frac{21}{347}\sqrt{10}e^{16} + \frac{21}{347}\sqrt{2}e^{24}$	$(-\frac{42}{347}, \frac{69}{347}, \frac{48}{347}, -\frac{84}{347}, \frac{69}{347}, \frac{27}{347}, \frac{6}{347}, -\frac{15}{347}, -\frac{15}{347})$ $+ \frac{24}{347}\sqrt{35}e^3 \otimes e_8 + \frac{24}{347}\sqrt{35}e^5 \otimes e_7$	{1234569, 1246789, 1345, 1478}
941:58	$0, 0, 0, 0, 0, \frac{106}{185}e^{12}, \frac{2}{185}\sqrt{5141}e^{13}, \frac{2}{185}\sqrt{1749}e^{45},$ $\frac{106}{185}e^{16} + \frac{2}{185}\sqrt{4558}e^{24}$	$(\frac{33}{185}, -\frac{9}{185}, -\frac{73}{185}, \frac{66}{185}, -\frac{9}{185}, \frac{24}{185}, -\frac{8}{37}, \frac{57}{185}, \frac{57}{185})$ $+ \frac{18}{185}\sqrt{8533}e^4 \otimes e_7$	{1256789, 12679, 1578, 17, 235789, 2379, 35678, 367}
941:58	$0, 0, 0, 0, 0, \frac{14}{3121}\sqrt{4745}e^{12}, \frac{14}{3121}\sqrt{6331}e^{13}, \frac{14}{3121}\sqrt{12805}e^{45},$ $\frac{140}{3121}\sqrt{13}e^{16} + \frac{14}{3121}\sqrt{2158}e^{24}$	$(-\frac{399}{3121}, \frac{1217}{3121}, -\frac{134}{3121}, -\frac{798}{3121}, \frac{741}{3121}, \frac{818}{3121}, -\frac{533}{3121}, -\frac{57}{3121}, \frac{419}{3121})$ $+ \frac{14}{3121}\sqrt{17849}e^5 \otimes e_7 + \frac{42}{3121}\sqrt{2015}e^2 \otimes e_8$	{12345, 146789, 2456, 34789}
941:58	$0, 0, 0, 0, 0, \frac{30}{2809}\sqrt{221}e^{12}, \frac{10}{2809}\sqrt{10517}e^{13}, \frac{30}{2809}\sqrt{897}e^{45},$ $\frac{10}{2809}\sqrt{6461}e^{16} + \frac{10}{2809}\sqrt{12298}e^{24}$	$(\frac{105}{2809}, \frac{503}{2809}, -\frac{545}{2809}, \frac{210}{2809}, -\frac{357}{2809}, \frac{608}{2809}, -\frac{440}{2809}, -\frac{147}{2809}, \frac{713}{2809})$ $+ \frac{10}{2809}\sqrt{19669}e^4 \otimes e_7 + \frac{20}{2809}\sqrt{3354}e^2 \otimes e_8$	{12679, 1578, 2379, 35678}
941:58	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{590}e^{12}, \frac{3}{71}\sqrt{354}e^{13}, \frac{2}{71}\sqrt{177}e^{45},$ $\frac{1}{71}\sqrt{1770}e^{16} + \frac{1}{71}\sqrt{3422}e^{24}$	$(-\frac{6}{71}, \frac{37}{71}, -\frac{16}{71}, -\frac{12}{71}, \frac{17}{71}, \frac{31}{71}, -\frac{22}{71}, \frac{5}{71}, \frac{25}{71})$ $+ \frac{2}{71}\sqrt{1770}e^2 \otimes e_7$	{1234, 123458, 1456789, 14679, 24568, 246, 345789, 3479}
941:58	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{204017}e^{12}, \frac{1}{1193}\sqrt{150558}e^{13}, \frac{3}{1193}\sqrt{85098}e^{45},$ $\frac{4}{1193}\sqrt{6546}e^{16} + \frac{2}{1193}\sqrt{76370}e^{24}$	$(-\frac{138}{1193}, \frac{679}{1193}, \frac{284}{1193}, -\frac{276}{1193}, -\frac{136}{1193}, \frac{541}{1193}, \frac{146}{1193}, -\frac{412}{1193}, \frac{403}{1193})$ $+ \frac{2}{1193}\sqrt{533499}e^2 \otimes e_8$	{12379, 129, 135678, 1568, 2369, 2679, 358, 578}
941:58	$0, 0, 0, 0, 0, \frac{9}{1291}\sqrt{462}e^{12}, \frac{18}{1291}\sqrt{777}e^{13}, \frac{9}{1291}\sqrt{1498}e^{45},$ $\frac{252}{1291}e^{16} + \frac{9}{1291}\sqrt{5110}e^{24}$	$(-\frac{161}{1291}, \frac{288}{1291}, \frac{533}{1291}, -\frac{322}{1291}, \frac{43}{1291}, \frac{127}{1291}, \frac{372}{1291}, -\frac{279}{1291}, -\frac{34}{1291})$ $+ \frac{36}{1291}\sqrt{469}e^2 \otimes e_8 + \frac{99}{1291}\sqrt{70}e^3 \otimes e_9$	{1279, 13568, 269, 3578}
941:58	$0, 0, 0, 0, 0, \frac{1}{397}\sqrt{41810}e^{12}, \frac{3}{397}\sqrt{226}e^{13}, \frac{2}{397}\sqrt{10622}e^{45},$ $\frac{1}{397}\sqrt{41810}e^{16} + \frac{1}{397}\sqrt{37742}e^{24}$	$(\frac{18}{397}, \frac{39}{397}, \frac{48}{397}, \frac{36}{397}, -\frac{131}{397}, \frac{57}{397}, \frac{66}{397}, -\frac{95}{397}, \frac{75}{397})$ $+ \frac{2}{397}\sqrt{19210}e^1 \otimes e_8$	{123459, 124579, 13456, 14567, 2346789, 24689, 3478, 48}
941:58	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{70}e^{12}, \frac{1}{25}\sqrt{30}e^{13}, \frac{4}{25}\sqrt{5}e^{45},$ $\frac{1}{25}\sqrt{10}e^{16} + \frac{1}{5}\sqrt{2}e^{24}$	$(0, \frac{1}{25}, \frac{6}{25}, 0, -\frac{1}{5}, \frac{1}{25}, \frac{6}{25}, -\frac{1}{5}, \frac{1}{25})$ $+ \frac{2}{25}\sqrt{15}e^3 \otimes e_9 + \frac{4}{25}\sqrt{10}e^1 \otimes e_8$	{124579, 13456, 24689, 3478}
941:58	$0, 0, 0, 0, 0, \frac{72}{3067}\sqrt{39}e^{12}, \frac{4}{3067}\sqrt{663}e^{13}, \frac{364}{3067}\sqrt{2}e^{45},$ $\frac{4}{3067}\sqrt{16783}e^{16} + \frac{4}{3067}\sqrt{9815}e^{24}$	$(-\frac{102}{3067}, \frac{98}{3067}, \frac{366}{3067}, \frac{204}{3067}, -\frac{2}{3067}, -\frac{4}{3067}, \frac{264}{3067}, -\frac{206}{3067}, -\frac{106}{3067})$ $+ \frac{4}{3067}\sqrt{12441}e^5 \otimes e_9 + \frac{4}{3067}\sqrt{23335}e^1 \otimes e_8$	{134567, 1456, 234689, 246789}
941:58	$0, 0, 0, 0, 0, \frac{5}{437}\sqrt{290}e^{12}, \frac{1}{437}\sqrt{37410}e^{13}, \frac{58}{437}\sqrt{5}e^{45},$ $\frac{1}{437}\sqrt{29290}e^{16} + \frac{3}{437}\sqrt{6670}e^{24}$	$(\frac{30}{437}, \frac{79}{437}, -\frac{96}{437}, \frac{60}{437}, -\frac{85}{437}, \frac{109}{437}, -\frac{66}{437}, -\frac{25}{437}, \frac{139}{437})$ $+ \frac{2}{437}\sqrt{16530}e^2 \otimes e_7 + \frac{4}{437}\sqrt{3190}e^4 \otimes e_5$	{123569, 157, 259, 3567}
941:58	$0, 0, 0, 0, 0, \frac{12}{365}\sqrt{15}e^{12}, \frac{2}{365}\sqrt{30}e^{13}, \frac{4}{365}\sqrt{170}e^{45},$ $\frac{2}{365}\sqrt{670}e^{16} + \frac{2}{73}\sqrt{14}e^{24}$	$(-\frac{3}{73}, \frac{5}{73}, \frac{6}{73}, -\frac{6}{73}, \frac{1}{73}, \frac{3}{73}, \frac{3}{73}, -\frac{5}{73}, -\frac{1}{73})$ $+ \frac{2}{365}\sqrt{985}e^1 \otimes e_8 + \frac{2}{73}\sqrt{21}e^5 \otimes e_9 + \frac{6}{365}\sqrt{15}e^2 \otimes e_7$	{14567, 24689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:58	$0, 0, 0, 0, 0, \frac{100}{2941} \sqrt{113}e^{12}, \frac{50}{2941} \sqrt{223}e^{13}, \frac{25}{2941} \sqrt{1018}e^{45},$ $\frac{25}{2941} \sqrt{2190}e^{16} + \frac{25}{2941} \sqrt{586}e^{24}$	$(\frac{25}{2941}, \frac{50}{2941}, -\frac{600}{2941}, \frac{50}{2941}, \frac{725}{2941}, \frac{75}{2941}, -\frac{575}{2941}, \frac{775}{2941}, \frac{100}{2941})$ $+\frac{1100}{2941}e^5 \otimes e_9 + \frac{200}{2941} \sqrt{41}e^1 \otimes e_3 + \frac{25}{2941} \sqrt{790}e^2 \otimes e_7$	{12489, 234689}
941:58	$0, 0, 0, 0, 0, \frac{14}{499} \sqrt{30}e^{12}, \frac{1}{499} \sqrt{3066}e^{13}, \frac{36}{499} \sqrt{7}e^{45},$ $\frac{14}{499} \sqrt{30}e^{16} + \frac{1}{499} \sqrt{6258}e^{24}$	$(-\frac{9}{499}, \frac{58}{499}, -\frac{24}{499}, -\frac{18}{499}, -\frac{12}{499}, \frac{49}{499}, -\frac{33}{499}, -\frac{30}{499}, \frac{40}{499})$ $+\frac{1}{499} \sqrt{12390}e^1 \otimes e_8 + \frac{1}{499} \sqrt{6510}e^5 \otimes e_7$	{123459, 13456, 2346789, 3478}
941:58	$0, 0, 0, 0, 0, \frac{140}{3121} \sqrt{13}e^{12}, \frac{14}{3121} \sqrt{6331}e^{13}, \frac{14}{3121} \sqrt{12805}e^{45},$ $\frac{14}{3121} \sqrt{4745}e^{16} + \frac{14}{3121} \sqrt{2158}e^{24}$	$(-\frac{399}{3121}, \frac{287}{3121}, \frac{1239}{3121}, -\frac{798}{3121}, \frac{763}{3121}, -\frac{112}{3121}, \frac{840}{3121}, -\frac{35}{3121}, -\frac{511}{3121})$ $+\frac{14}{3121} \sqrt{17849}e^3 \otimes e_8 + \frac{42}{3121} \sqrt{2015}e^5 \otimes e_9$	{123456, 14789, 23457, 4689}
941:58	$0, 0, 0, 0, 0, \frac{2}{695} \sqrt{42366}e^{12}, \frac{2}{695} \sqrt{8903}e^{13}, \frac{1}{695} \sqrt{31314}e^{45},$ $\frac{1}{695} \sqrt{123414}e^{16} + \frac{1}{139} \sqrt{1842}e^{24}$	$(\frac{51}{695}, \frac{102}{695}, -\frac{256}{695}, \frac{102}{695}, \frac{27}{695}, \frac{153}{695}, -\frac{41}{139}, \frac{129}{695}, \frac{204}{695})$ $+\frac{28}{695} \sqrt{307}e^1 \otimes e_3 + \frac{3}{139} \sqrt{614}e^2 \otimes e_7$	{12459, 12489, 234569, 234689}
941:58	$0, 0, 0, 0, 0, \frac{12}{185} \sqrt{159}e^{12}, \frac{16}{185} \sqrt{53}e^{13}, \frac{2}{185} \sqrt{1749}e^{45},$ $\frac{12}{185} \sqrt{159}e^{16} + \frac{2}{37} \sqrt{159}e^{24}$	$(\frac{33}{185}, -\frac{9}{185}, -\frac{73}{185}, \frac{66}{185}, -\frac{9}{185}, \frac{24}{185}, -\frac{8}{37}, \frac{57}{185}, \frac{57}{185})$ $+\frac{2}{185} \sqrt{8533}e^1 \otimes e_3$	{12459, 12489, 1456, 1468, 234569, 234689, 345, 348}
941:58	$0, 0, 0, 0, 0, \frac{4}{1193} \sqrt{6546}e^{12}, \frac{1}{1193} \sqrt{150558}e^{13}, \frac{3}{1193} \sqrt{85098}e^{45},$ $\frac{4}{1193} \sqrt{204017}e^{16} + \frac{2}{1193} \sqrt{76370}e^{24}$	$(-\frac{138}{1193}, \frac{27}{1193}, \frac{284}{1193}, -\frac{276}{1193}, \frac{842}{1193}, -\frac{111}{1193}, \frac{146}{1193}, \frac{566}{1193}, -\frac{249}{1193})$ $+\frac{2}{1193} \sqrt{533499}e^5 \otimes e_9$	{12379, 129, 135678, 1568, 2369, 2679, 358, 578}
941:58	$0, 0, 0, 0, 0, \frac{20}{803} \sqrt{7}e^{12}, \frac{10}{803} \sqrt{721}e^{13}, \frac{5}{803} \sqrt{1834}e^{45},$ $\frac{5}{803} \sqrt{322}e^{16} + \frac{5}{803} \sqrt{2086}e^{24}$	$(-\frac{105}{803}, \frac{190}{803}, \frac{120}{803}, -\frac{210}{803}, \frac{155}{803}, \frac{85}{803}, \frac{15}{803}, -\frac{5}{803}, -\frac{20}{803})$ $+\frac{15}{803} \sqrt{406}e^2 \otimes e_7 + \frac{60}{803} \sqrt{21}e^5 \otimes e_9 + \frac{80}{803} \sqrt{14}e^3 \otimes e_8$	{12369, 1578}
941:58	$0, 0, 0, 0, 0, \frac{1}{71} \sqrt{1770}e^{12}, \frac{3}{71} \sqrt{354}e^{13}, \frac{2}{71} \sqrt{177}e^{45},$ $\frac{1}{71} \sqrt{590}e^{16} + \frac{1}{71} \sqrt{3422}e^{24}$	$(-\frac{6}{71}, -\frac{3}{71}, \frac{44}{71}, -\frac{12}{71}, \frac{17}{71}, -\frac{9}{71}, \frac{38}{71}, \frac{5}{71}, -\frac{15}{71})$ $+\frac{2}{71} \sqrt{1770}e^3 \otimes e_9$	{1234568, 12346, 145789, 1479, 234578, 2347, 45689, 469}
941:58	$0, 0, 0, 0, 0, \frac{21}{347} \sqrt{10}e^{12}, \frac{3}{347} \sqrt{1946}e^{13}, \frac{42}{347} \sqrt{3}e^{45},$ $\frac{21}{347} \sqrt{10}e^{16} + \frac{9}{347} \sqrt{238}e^{24}$	$(-\frac{42}{347}, \frac{69}{347}, \frac{48}{347}, -\frac{84}{347}, \frac{69}{347}, \frac{27}{347}, \frac{6}{347}, -\frac{15}{347}, -\frac{15}{347})$ $+\frac{24}{347} \sqrt{35}e^2 \otimes e_7 + \frac{24}{347} \sqrt{35}e^3 \otimes e_9$	{259, 289, 3567, 3678}
941:58	$0, 0, 0, 0, 0, \frac{10}{1187} \sqrt{429}e^{12}, \frac{6}{1187} \sqrt{2509}e^{13}, \frac{2}{1187} \sqrt{11193}e^{45},$ $\frac{10}{1187} \sqrt{429}e^{16} + \frac{2}{1187} \sqrt{12714}e^{24}$	$(\frac{51}{1187}, \frac{29}{1187}, -\frac{27}{1187}, \frac{102}{1187}, -\frac{207}{1187}, \frac{80}{1187}, \frac{24}{1187}, -\frac{105}{1187}, \frac{131}{1187})$ $+\frac{2}{1187} \sqrt{24765}e^4 \otimes e_7 + \frac{4}{1187} \sqrt{4602}e^3 \otimes e_8$	{1256789, 1578, 2379, 367}
941:58	$0, 0, 0, 0, 0, \frac{5}{803} \sqrt{322}e^{12}, \frac{10}{803} \sqrt{721}e^{13}, \frac{5}{803} \sqrt{1834}e^{45},$ $\frac{5}{803} \sqrt{7}e^{16} + \frac{5}{803} \sqrt{2086}e^{24}$	$(-\frac{105}{803}, \frac{160}{803}, \frac{125}{803}, -\frac{210}{803}, \frac{195}{803}, \frac{5}{803}, \frac{20}{803}, -\frac{15}{803}, -\frac{50}{803})$ $+\frac{15}{803} \sqrt{406}e^3 \otimes e_9 + \frac{60}{803} \sqrt{21}e^2 \otimes e_8 + \frac{80}{803} \sqrt{14}e^5 \otimes e_7$	{12679, 1358}
941:58	$0, 0, 0, 0, 0, \frac{10}{157} e^{12}, \frac{6}{157} \sqrt{15}e^{13}, \frac{2}{157} \sqrt{190}e^{45},$ $\frac{10}{157} e^{16} + \frac{2}{157} \sqrt{215}e^{24}$	$(-\frac{5}{157}, \frac{17}{157}, -\frac{15}{157}, -\frac{10}{157}, \frac{17}{157}, \frac{12}{157}, -\frac{20}{157}, \frac{7}{157}, \frac{7}{157})$ $+\frac{2}{157} \sqrt{215}e^2 \otimes e_8 + \frac{2}{157} \sqrt{215}e^5 \otimes e_9 + \frac{2}{157} \sqrt{295}e^4 \otimes e_7$	{12679, 1578, 2379, 35678}
941:58	$0, 0, 0, 0, 0, \frac{10}{157} e^{12}, \frac{6}{157} \sqrt{15}e^{13}, \frac{2}{157} \sqrt{190}e^{45},$ $\frac{10}{157} e^{16} + \frac{2}{157} \sqrt{215}e^{24}$	$(-\frac{5}{157}, \frac{17}{157}, -\frac{15}{157}, -\frac{10}{157}, \frac{17}{157}, \frac{12}{157}, -\frac{20}{157}, \frac{7}{157}, \frac{7}{157})$ $+\frac{2}{157} \sqrt{215}e^2 \otimes e_8 - \frac{2}{157} \sqrt{215}e^5 \otimes e_9 + \frac{2}{157} \sqrt{295}e^4 \otimes e_7$	{12679, 1578, 2379, 35678}
941:58	$0, 0, 0, 0, 0, \frac{4}{183} \sqrt{217}e^{12}, \frac{28}{183} \sqrt{2}e^{13}, \frac{2}{183} \sqrt{1498}e^{45},$ $\frac{4}{183} \sqrt{217}e^{16} + \frac{2}{61} \sqrt{70}e^{24}$	$(-\frac{28}{183}, \frac{16}{61}, \frac{34}{183}, -\frac{56}{183}, \frac{16}{61}, \frac{20}{183}, \frac{2}{183}, -\frac{8}{183}, -\frac{8}{183})$ $+\frac{2}{183} \sqrt{2282}e^2 \otimes e_8 - \frac{2}{183} \sqrt{2282}e^5 \otimes e_9$	{12379, 129, 135678, 1568, 2369, 2679, 358, 578}
941:58	$0, 0, 0, 0, 0, \frac{4}{183} \sqrt{217}e^{12}, \frac{28}{183} \sqrt{2}e^{13}, \frac{2}{183} \sqrt{1498}e^{45},$ $\frac{4}{183} \sqrt{217}e^{16} + \frac{2}{61} \sqrt{70}e^{24}$	$(-\frac{28}{183}, \frac{16}{61}, \frac{34}{183}, -\frac{56}{183}, \frac{16}{61}, \frac{20}{183}, \frac{2}{183}, -\frac{8}{183}, -\frac{8}{183})$ $+\frac{2}{183} \sqrt{2282}e^2 \otimes e_8 + \frac{2}{183} \sqrt{2282}e^5 \otimes e_9$	{12379, 129, 135678, 1568, 2369, 2679, 358, 578}
941:58	$0, 0, 0, 0, 0, \frac{40}{2809} \sqrt{1105}e^{12}, \frac{80}{2809} \sqrt{143}e^{13}, \frac{30}{2809} \sqrt{897}e^{45},$ $\frac{20}{2809} \sqrt{3302}e^{16} + \frac{90}{2809} \sqrt{91}e^{24}$	$(\frac{105}{2809}, \frac{503}{2809}, -\frac{545}{2809}, \frac{210}{2809}, -\frac{357}{2809}, \frac{608}{2809}, -\frac{440}{2809}, -\frac{147}{2809}, \frac{713}{2809})$ $+\frac{10}{2809} \sqrt{19669}e^1 \otimes e_3 + \frac{20}{2809} \sqrt{3354}e^2 \otimes e_8$	{12459, 1468, 234569, 348}
941:58	$0, 0, 0, 0, 0, \frac{1}{15} \sqrt{34}e^{12}, \frac{2}{15} \sqrt{3}e^{13}, \frac{1}{15} \sqrt{22}e^{45},$ $\frac{1}{15} \sqrt{6}e^{16} + \frac{1}{15} \sqrt{14}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{15} \sqrt{14}e^5 \otimes e_7 + \frac{1}{15} \sqrt{30}e^2 \otimes e_8 + \frac{1}{15} \sqrt{38}e^1 \otimes e_3$	{12459, 234569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:59	$0, 0, 0, 0, 0, \frac{918}{3989}\sqrt{3}e^{12}, \frac{1326}{3989}e^{13}, \frac{51}{3989}\sqrt{542}e^{14} + \frac{51}{3989}\sqrt{458}e^{23},$ $\frac{102}{3989}\sqrt{109}e^{16} + \frac{102}{3989}\sqrt{257}e^{34}$	$(-\frac{408}{3989}, \frac{1581}{3989}, -\frac{612}{3989}, \frac{1377}{3989}, -\frac{1224}{3989}, \frac{1173}{3989}, -\frac{1020}{3989}, \frac{969}{3989}, \frac{765}{3989})$ $+\frac{153}{3989}\sqrt{406}e^2 \otimes e_7 + \frac{51}{3989}\sqrt{3386}e^4 \otimes e_5$	{1234, 14679}
941:59	$0, 0, 0, 0, 0, \frac{7}{468}\sqrt{174}e^{12}, \frac{7}{156}\sqrt{85}e^{13}, \frac{7}{156}\sqrt{85}e^{14} + \frac{7}{234}\sqrt{141}e^{23},$ $\frac{7}{156}\sqrt{10}e^{16} + \frac{7}{234}\sqrt{57}e^{34}$	$(-\frac{7}{156}, \frac{35}{156}, -\frac{7}{104}, \frac{21}{104}, -\frac{14}{39}, \frac{7}{39}, -\frac{35}{312}, \frac{49}{312}, \frac{7}{52})$ $+\frac{7}{117}\sqrt{78}e^1 \otimes e_5 + \frac{7}{234}\sqrt{330}e^4 \otimes e_7$	{3579, 4589}
941:59	$0, 0, 0, 0, 0, \frac{48}{407}\sqrt{3}e^{12}, \frac{16}{407}\sqrt{110}e^{13}, \frac{32}{407}\sqrt{19}e^{14} + \frac{16}{407}\sqrt{105}e^{23},$ $\frac{16}{407}\sqrt{10}e^{16} + \frac{16}{407}\sqrt{31}e^{34}$	$(-\frac{16}{407}, \frac{8}{37}, -\frac{24}{407}, \frac{80}{407}, -\frac{152}{407}, \frac{72}{407}, -\frac{40}{407}, \frac{64}{407}, \frac{56}{407})$ $+\frac{16}{407}\sqrt{185}e^2 \otimes e_7 + \frac{16}{407}\sqrt{187}e^3 \otimes e_5$	{2568, 3789}
941:59	$0, 0, 0, 0, 0, \frac{1}{572}\sqrt{52098}e^{12}, \frac{1}{572}\sqrt{174117}e^{13},$ $\frac{1}{572}\sqrt{174117}e^{14} + \frac{1}{286}\sqrt{31533}e^{23}, \frac{1}{572}\sqrt{143498}e^{16} + \frac{9}{286}\sqrt{457}e^{34}$	$(-\frac{95}{572}, \frac{267}{572}, -\frac{285}{1144}, \frac{439}{1144}, \frac{18}{143}, \frac{43}{143}, -\frac{475}{1144}, \frac{249}{1144}, \frac{7}{52})$ $+\frac{5}{286}\sqrt{4570}e^4 \otimes e_7$	{134, 1345, 1578, 178}
941:59	$0, 0, 0, 0, 0, \frac{2}{2453}\sqrt{651358}e^{12}, \frac{4}{2453}\sqrt{165737}e^{13},$ $\frac{2}{2453}\sqrt{525027}e^{14} + \frac{36}{2453}\sqrt{2318}e^{23}, \frac{76}{2453}\sqrt{122}e^{16} + \frac{4}{2453}\sqrt{49837}e^{34}$	$(-\frac{430}{2453}, \frac{113}{223}, -\frac{645}{2453}, \frac{1028}{2453}, \frac{403}{2453}, \frac{813}{2453}, -\frac{1075}{2453}, \frac{598}{2453}, \frac{383}{2453})$ $+\frac{10}{2453}\sqrt{95038}e^2 \otimes e_7$	{25689, 2689, 3578, 378}
941:59	$0, 0, 0, 0, 0, \frac{47}{6621}\sqrt{3170}e^{12}, \frac{799}{6621}\sqrt{10}e^{13},$ $\frac{188}{6621}\sqrt{5}e^{14} + \frac{47}{6621}\sqrt{762}e^{23}, \frac{47}{6621}\sqrt{2046}e^{16} + \frac{47}{6621}\sqrt{1486}e^{34}$	$(-\frac{94}{2207}, \frac{1504}{6621}, -\frac{141}{2207}, \frac{1363}{6621}, \frac{2491}{6621}, \frac{1222}{6621}, -\frac{235}{2207}, \frac{1081}{6621}, \frac{940}{6621})$ $+\frac{47}{6621}\sqrt{6302}e^1 \otimes e_5 + \frac{94}{6621}\sqrt{1405}e^2 \otimes e_7$	{12349, 1467}
941:59	$0, 0, 0, 0, 0, \frac{11}{189}\sqrt{26}e^{12}, \frac{11}{189}\sqrt{51}e^{13}, \frac{11}{189}\sqrt{51}e^{14} + \frac{11}{189}\sqrt{6}e^{23},$ $\frac{11}{189}\sqrt{41}e^{16} + \frac{88}{189}e^{34}$	$(-\frac{22}{189}, \frac{11}{27}, -\frac{11}{63}, \frac{22}{63}, -\frac{44}{189}, \frac{55}{189}, -\frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+\frac{11}{189}\sqrt{131}e^2 \otimes e_5 + \frac{22}{189}\sqrt{51}e^4 \otimes e_7$	{3579, 4589}
941:59	$0, 0, 0, 0, 0, \frac{15}{149}\sqrt{21}e^{12}, \frac{3}{149}\sqrt{105}e^{13}, \frac{39}{149}\sqrt{3}e^{14} + \frac{18}{149}\sqrt{10}e^{23},$ $\frac{3}{149}\sqrt{510}e^{16} + \frac{3}{149}\sqrt{330}e^{34}$	$(-\frac{18}{149}, \frac{36}{149}, -\frac{27}{149}, \frac{27}{149}, \frac{81}{149}, \frac{18}{149}, -\frac{45}{149}, \frac{9}{149}, 0)$ $+\frac{18}{149}\sqrt{34}e^2 \otimes e_7 + \frac{3}{149}\sqrt{1149}e^5 \otimes e_9$	{1239, 1567}
941:59	$0, 0, 0, 0, 0, \frac{2}{93}\sqrt{354}e^{12}, \frac{2}{93}\sqrt{2242}e^{13}, \frac{2}{93}\sqrt{59}e^{14} + \frac{4}{93}\sqrt{59}e^{23},$ $\frac{2}{93}\sqrt{354}e^{16} + \frac{4}{93}\sqrt{59}e^{34}$	$(-\frac{10}{93}, \frac{25}{93}, -\frac{5}{31}, \frac{20}{93}, \frac{1}{31}, \frac{5}{31}, -\frac{25}{93}, \frac{10}{93}, \frac{5}{93})$ $+\frac{2}{93}\sqrt{4602}e^5 \otimes e_7$	{12345689, 12679, 135, 1478}
941:59	$0, 0, 0, 0, 0, \frac{4}{99}\sqrt{3}e^{12}, \frac{4}{99}\sqrt{69}e^{13}, \frac{4}{99}\sqrt{69}e^{14} + \frac{4}{33}\sqrt{10}e^{23},$ $\frac{8}{99}\sqrt{3}e^{16} + \frac{4}{99}\sqrt{186}e^{34}$	$(-\frac{4}{33}, \frac{8}{33}, -\frac{2}{11}, \frac{2}{11}, \frac{16}{33}, \frac{4}{33}, -\frac{10}{33}, \frac{2}{33}, 0)$ $+\frac{4}{33}\sqrt{34}e^4 \otimes e_7 + \frac{4}{99}\sqrt{231}e^5 \otimes e_9$	{379, 489}
941:59	$0, 0, 0, 0, 0, \frac{53}{5697}\sqrt{330}e^{12}, \frac{212}{5697}\sqrt{59}e^{13}, \frac{53}{5697}\sqrt{834}e^{14} + \frac{1060}{1899}e^{23},$ $\frac{53}{5697}\sqrt{286}e^{16} + \frac{53}{5697}\sqrt{1514}e^{34}$	$(-\frac{212}{1899}, \frac{1219}{5697}, -\frac{106}{633}, \frac{901}{5697}, \frac{3074}{5697}, \frac{583}{5697}, -\frac{530}{1899}, \frac{265}{5697}, -\frac{53}{5697})$ $+\frac{53}{5697}\sqrt{5026}e^5 \otimes e_8 + \frac{53}{5697}\sqrt{5246}e^2 \otimes e_7$	{123459, 14567}
941:59	$0, 0, 0, 0, 0, \frac{86}{6261}\sqrt{346}e^{12}, \frac{86}{6261}\sqrt{1015}e^{13},$ $\frac{43}{6261}\sqrt{1374}e^{14} + \frac{43}{6261}\sqrt{382}e^{23}, \frac{43}{6261}\sqrt{2634}e^{16} + \frac{86}{6261}\sqrt{842}e^{34}$	$(-\frac{86}{2087}, \frac{1333}{6261}, -\frac{129}{2087}, \frac{1204}{6261}, -\frac{2236}{6261}, \frac{1075}{6261}, -\frac{215}{2087}, \frac{946}{6261}, \frac{817}{6261})$ $+\frac{1075}{6261}\sqrt{10}e^4 \otimes e_7 + \frac{86}{6261}\sqrt{1343}e^3 \otimes e_5$	{134, 1578}
941:59	$0, 0, 0, 0, 0, \frac{1}{124}\sqrt{6262}e^{12}, \frac{3}{124}\sqrt{505}e^{13}, \frac{3}{124}\sqrt{505}e^{14} + \frac{1}{62}\sqrt{707}e^{23},$ $\frac{1}{124}\sqrt{6262}e^{16} + \frac{1}{62}\sqrt{707}e^{34}$	$(\frac{17}{124}, \frac{3}{124}, \frac{51}{248}, \frac{23}{248}, -\frac{21}{31}, \frac{5}{31}, \frac{85}{248}, \frac{57}{248}, \frac{37}{124})$ $+\frac{1}{31}\sqrt{1313}e^1 \otimes e_5$	{23456789, 2569, 357, 458}
941:59	$0, 0, 0, 0, 0, \frac{36}{2333}\sqrt{131}e^{12}, \frac{6}{2333}\sqrt{25283}e^{13},$ $\frac{6}{2333}\sqrt{105062}e^{14} + \frac{6}{2333}\sqrt{48994}e^{23}, \frac{6}{2333}\sqrt{47422}e^{16} + \frac{12}{2333}\sqrt{26855}e^{34}$	$(\frac{60}{2333}, \frac{681}{2333}, \frac{90}{2333}, \frac{711}{2333}, -\frac{1647}{2333}, \frac{741}{2333}, \frac{150}{2333}, \frac{771}{2333}, \frac{801}{2333})$ $+\frac{6}{2333}\sqrt{260690}e^4 \otimes e_5$	{23468, 2567, 359, 4789}
941:59	$0, 0, 0, 0, 0, \frac{6}{2333}\sqrt{47422}e^{12}, \frac{6}{2333}\sqrt{25283}e^{13},$ $\frac{6}{2333}\sqrt{105062}e^{14} + \frac{12}{2333}\sqrt{26855}e^{23}, \frac{36}{2333}\sqrt{131}e^{16} + \frac{6}{2333}\sqrt{48994}e^{34}$	$(\frac{60}{2333}, -\frac{115}{2333}, \frac{90}{2333}, -\frac{85}{2333}, 1, -\frac{55}{2333}, \frac{150}{2333}, -\frac{25}{2333}, \frac{5}{2333})$ $+\frac{6}{2333}\sqrt{260690}e^5 \otimes e_8$	{235, 2478, 34689, 5679}
941:59	$0, 0, 0, 0, 0, \frac{94}{5037}\sqrt{373}e^{12}, \frac{47}{5037}\sqrt{1554}e^{13},$ $\frac{94}{5037}\sqrt{898}e^{14} + \frac{47}{5037}\sqrt{142}e^{23}, \frac{47}{5037}\sqrt{1714}e^{16} + \frac{94}{5037}\sqrt{202}e^{34}$	$(-\frac{188}{1679}, \frac{47}{219}, -\frac{282}{1679}, \frac{799}{5037}, \frac{2444}{5037}, \frac{517}{5037}, -\frac{470}{1679}, \frac{235}{5037}, -\frac{47}{5037})$ $+\frac{47}{5037}\sqrt{5186}e^4 \otimes e_7 + \frac{94}{5037}\sqrt{1019}e^5 \otimes e_8$	{23579, 2489}
941:59	$0, 0, 0, 0, 0, \frac{8}{481}\sqrt{454}e^{12}, \frac{2}{481}\sqrt{29510}e^{13},$ $\frac{2}{481}\sqrt{16571}e^{14} + \frac{2}{481}\sqrt{25878}e^{23}, \frac{8}{481}\sqrt{454}e^{16} + \frac{2}{481}\sqrt{25878}e^{34}$	$(\frac{82}{481}, -\frac{7}{481}, \frac{123}{481}, \frac{34}{481}, -\frac{331}{481}, \frac{75}{481}, \frac{205}{481}, \frac{116}{481}, \frac{157}{481})$ $+\frac{2}{481}\sqrt{92162}e^3 \otimes e_5$	{12369, 12456789, 1348, 157}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:60	$0, 0, 0, 0, 0, \frac{90}{3581}\sqrt{286}e^{12}, \frac{495}{3581}\sqrt{10}e^{13},$ $\frac{45}{3581}\sqrt{110}e^{14} + \frac{270}{3581}\sqrt{11}e^{23}, \frac{90}{3581}\sqrt{407}e^{26} + \frac{90}{3581}\sqrt{33}e^{34}$	$(-\frac{765}{3581}, \frac{990}{3581}, -\frac{270}{3581}, \frac{1485}{3581}, -\frac{540}{3581}, \frac{225}{3581}, -\frac{1035}{3581}, \frac{720}{3581}, \frac{1215}{3581})$ $+ \frac{315}{3581}\sqrt{86}e^2 \otimes e_7 + \frac{45}{3581}\sqrt{2014}e^4 \otimes e_5$	{12349, 2468}
941:60	$0, 0, 0, 0, 0, \frac{46}{2509}\sqrt{154}e^{12}, \frac{46}{2509}\sqrt{381}e^{13},$ $\frac{46}{2509}\sqrt{167}e^{14} + \frac{46}{2509}\sqrt{591}e^{23}, \frac{92}{2509}\sqrt{122}e^{26} + \frac{46}{2509}\sqrt{454}e^{34}$	$(-\frac{437}{2509}, \frac{368}{2509}, -\frac{253}{2509}, \frac{552}{2509}, \frac{1173}{2509}, -\frac{69}{2509}, -\frac{690}{2509}, \frac{115}{2509}, \frac{23}{193})$ $+ \frac{92}{2509}\sqrt{227}e^5 \otimes e_8 + \frac{92}{2509}\sqrt{334}e^2 \otimes e_7$	{123459, 2468}
941:60	$0, 0, 0, 0, 0, \frac{6}{193}\sqrt{141}e^{12}, \frac{18}{193}\sqrt{15}e^{13}, \frac{6}{193}\sqrt{71}e^{14} + \frac{6}{193}\sqrt{10}e^{23},$ $\frac{30}{193}\sqrt{10}e^{26} + \frac{12}{193}\sqrt{3}e^{34}$	$(-\frac{30}{193}, \frac{24}{193}, -\frac{18}{193}, \frac{36}{193}, \frac{90}{193}, -\frac{6}{193}, \frac{48}{193}, \frac{6}{193}, \frac{18}{193})$ $+ \frac{12}{193}\sqrt{103}e^2 \otimes e_7 + \frac{30}{193}\sqrt{11}e^5 \otimes e_9$	{1239, 2568}
941:60	$0, 0, 0, 0, 0, \frac{28}{1011}\sqrt{66}e^{12}, \frac{14}{337}\sqrt{95}e^{13}, \frac{14}{1011}\sqrt{519}e^{14} + \frac{70}{337}\sqrt{3}e^{23},$ $\frac{28}{337}\sqrt{10}e^{26} + \frac{56}{1011}\sqrt{3}e^{34}$	$(-\frac{35}{337}, \frac{56}{337}, -\frac{7}{337}, \frac{84}{337}, -\frac{105}{337}, \frac{21}{337}, -\frac{42}{337}, \frac{49}{337}, \frac{77}{337})$ $+ \frac{14}{1011}\sqrt{1230}e^3 \otimes e_5 + \frac{14}{1011}\sqrt{1518}e^2 \otimes e_7$	{1239, 2568}
941:60	$0, 0, 0, 0, 0, \frac{2}{2601}\sqrt{1754}e^{12}, \frac{2}{2601}\sqrt{705985}e^{13},$ $\frac{2}{2601}\sqrt{256961}e^{14} + \frac{2}{2601}\sqrt{311335}e^{23}, \frac{20}{867}\sqrt{877}e^{26} + \frac{2}{2601}\sqrt{398158}e^{34}$	$(-\frac{685}{2601}, \frac{256}{867}, -\frac{301}{2601}, \frac{128}{289}, \frac{45}{2601}, \frac{83}{2601}, -\frac{58}{153}, \frac{467}{2601}, \frac{851}{2601})$ $+ \frac{4}{867}\sqrt{53497}e^2 \otimes e_7$	{15679, 1679, 3578, 378}
941:60	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{2}e^{12}, \frac{2}{9}\sqrt{10}e^{13}, \frac{2}{9}\sqrt{10}e^{14} + \frac{4}{9}\sqrt{2}e^{23},$ $\frac{2}{9}\sqrt{6}e^{26} + \frac{4}{9}e^{34}$	$(\frac{2}{9}, 0, \frac{2}{9}, 0, -\frac{2}{3}, \frac{2}{9}, \frac{4}{9}, \frac{2}{9}, \frac{2}{9})$ $+ \frac{2}{9}\sqrt{30}e^1 \otimes e_5$	{13469, 16789, 357, 458}
941:60	$0, 0, 0, 0, 0, \frac{2}{2457}\sqrt{172018}e^{12}, \frac{2}{2457}\sqrt{631105}e^{13},$ $\frac{2}{2457}\sqrt{541745}e^{14} + \frac{2}{2457}\sqrt{825463}e^{23}, \frac{4}{2457}\sqrt{97179}e^{26} + \frac{2}{2457}\sqrt{739454}e^{34}$	$(\frac{431}{2457}, \frac{40}{819}, \frac{491}{2457}, \frac{20}{273}, -\frac{83}{117}, \frac{551}{2457}, \frac{922}{2457}, \frac{47}{189}, \frac{671}{2457})$ $+ \frac{20}{2457}\sqrt{23457}e^3 \otimes e_5$	{12369, 12456789, 2347, 258}
941:60	$0, 0, 0, 0, 0, \frac{6}{2501}\sqrt{13270}e^{12}, \frac{2}{2501}\sqrt{411370}e^{13},$ $\frac{6}{2501}\sqrt{108814}e^{14} + \frac{2}{2501}\sqrt{388811}e^{23}, \frac{2}{2501}\sqrt{45118}e^{26} + \frac{40}{2501}\sqrt{2654}e^{34}$	$(-\frac{113}{2501}, \frac{642}{2501}, \frac{208}{2501}, \frac{963}{2501}, -\frac{1691}{2501}, \frac{529}{2501}, \frac{95}{2501}, \frac{850}{2501}, \frac{1171}{2501})$ $+ \frac{8}{2501}\sqrt{173837}e^4 \otimes e_5$	{13467, 1568, 359, 4789}
941:60	$0, 0, 0, 0, 0, \frac{20}{873}\sqrt{194}e^{12}, \frac{10}{873}\sqrt{1066}e^{13}, \frac{10}{873}\sqrt{202}e^{14} + \frac{20}{873}\sqrt{26}e^{23},$ $\frac{10}{291}\sqrt{102}e^{26} + \frac{20}{873}\sqrt{145}e^{34}$	$(-\frac{70}{873}, \frac{40}{291}, -\frac{10}{873}, \frac{20}{97}, -\frac{30}{97}, \frac{50}{873}, -\frac{80}{873}, \frac{110}{873}, \frac{170}{873})$ $+ \frac{10}{291}\sqrt{158}e^1 \otimes e_5 + \frac{80}{291}\sqrt{3}e^2 \otimes e_7$	{16789, 357}
941:60	$0, 0, 0, 0, 0, \frac{1}{644}\sqrt{227766}e^{12}, \frac{1}{644}\sqrt{53295}e^{13},$ $\frac{1}{644}\sqrt{53295}e^{14} + \frac{1}{322}\sqrt{36465}e^{23}, \frac{1}{161}\sqrt{12903}e^{26} + \frac{1}{322}\sqrt{10659}e^{34}$	$(-\frac{3}{644}, \frac{127}{644}, \frac{121}{1288}, \frac{381}{1288}, -\frac{31}{46}, \frac{31}{161}, \frac{5}{56}, \frac{375}{1288}, \frac{251}{644})$ $+ \frac{11}{92}\sqrt{102}e^2 \otimes e_5$	{13456789, 1569, 358, 457}
941:60	$0, 0, 0, 0, 0, \frac{2}{2417}\sqrt{466422}e^{12}, \frac{2}{2417}\sqrt{242979}e^{13},$ $\frac{2}{2417}\sqrt{1019535}e^{14} + \frac{2}{2417}\sqrt{1048839}e^{23}, \frac{24}{2417}\sqrt{407}e^{26} + \frac{6}{2417}\sqrt{49654}e^{34}$	$(\frac{95}{2417}, -\frac{80}{2417}, \frac{55}{2417}, -\frac{120}{2417}, 1, \frac{15}{2417}, \frac{150}{2417}, -\frac{25}{2417}, -\frac{65}{2417})$ $+ \frac{44}{2417}\sqrt{5217}e^5 \otimes e_8$	{12345679, 12689, 235, 2478}
941:60	$0, 0, 0, 0, 0, \frac{4}{213}\sqrt{303}e^{12}, \frac{2}{213}\sqrt{5555}e^{13}, \frac{2}{213}\sqrt{5555}e^{14} + \frac{2}{213}\sqrt{3939}e^{23},$ $\frac{2}{213}\sqrt{1010}e^{26} + \frac{4}{213}\sqrt{1111}e^{34}$	$(-\frac{21}{71}, \frac{76}{213}, -\frac{25}{213}, \frac{38}{71}, \frac{35}{213}, \frac{13}{213}, -\frac{88}{213}, \frac{17}{71}, \frac{89}{213})$ $- \frac{2}{213}\sqrt{17978}e^4 \otimes e_7$	{134, 1345, 1578, 178, 35679, 3679, 45689, 4689}
941:60	$0, 0, 0, 0, 0, \frac{4}{213}\sqrt{303}e^{12}, \frac{2}{213}\sqrt{5555}e^{13}, \frac{2}{213}\sqrt{5555}e^{14} + \frac{2}{213}\sqrt{3939}e^{23},$ $\frac{2}{213}\sqrt{1010}e^{26} + \frac{4}{213}\sqrt{1111}e^{34}$	$(-\frac{21}{71}, \frac{76}{213}, -\frac{25}{213}, \frac{38}{71}, \frac{35}{213}, \frac{13}{213}, -\frac{88}{213}, \frac{17}{71}, \frac{89}{213})$ $+ \frac{2}{213}\sqrt{17978}e^4 \otimes e_7$	{134, 1345, 1578, 178, 35679, 3679, 45689, 4689}
941:60	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1785}e^{12}, \frac{4}{161}\sqrt{85}e^{13}, \frac{4}{161}\sqrt{85}e^{14} + \frac{6}{161}\sqrt{255}e^{23},$ $\frac{2}{161}\sqrt{3910}e^{26} + \frac{10}{161}\sqrt{170}e^{34}$	$(\frac{15}{161}, -\frac{12}{161}, \frac{9}{161}, -\frac{18}{161}, 1, \frac{3}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{9}{161})$ $+ \frac{2}{161}\sqrt{11305}e^5 \otimes e_9$	{13679, 14689, 345, 578}
941:60	$0, 0, 0, 0, 0, \frac{2}{2493}\sqrt{208906}e^{12}, \frac{2}{2493}\sqrt{1574590}e^{13},$ $\frac{2}{2493}\sqrt{34298}e^{14} + \frac{2}{2493}\sqrt{244763}e^{23}, \frac{2}{831}\sqrt{46770}e^{26} + \frac{8}{2493}\sqrt{21826}e^{34}$	$(-\frac{425}{2493}, \frac{50}{277}, -\frac{200}{2493}, \frac{75}{277}, 1, \frac{25}{2493}, -\frac{625}{2493}, \frac{250}{2493}, \frac{475}{2493})$ $+ \frac{8}{2493}\sqrt{201111}e^5 \otimes e_7$	{135, 1478, 34679, 5689}
941:61	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{1}{82}\sqrt{2046}e^{14} - \frac{3}{82}\sqrt{154}e^{23},$ $\frac{1}{82}\sqrt{2046}e^{13} + \frac{3}{82}\sqrt{154}e^{24}, \frac{1}{41}\sqrt{561}e^{16}$	$(\frac{5}{41}, \frac{5}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{10}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^1 \otimes e_5$	{12379, 1346, 1678, 23456789, 2569, 358, 12379, 1346, 1678, 23456789, 2569, 358}
941:61	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{1}{82}\sqrt{2046}e^{14} + \frac{3}{82}\sqrt{154}e^{23},$ $\frac{1}{82}\sqrt{2046}e^{13} + \frac{3}{82}\sqrt{154}e^{24}, \frac{1}{41}\sqrt{561}e^{16}$	$(\frac{5}{41}, \frac{5}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{10}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^1 \otimes e_5$	{12379, 1346, 1678, 23456789, 2569, 358, 12379, 1346, 1678, 23456789, 2569, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:61	$0, 0, 0, 0, 0, \frac{26}{125}\sqrt{5}e^{12}, \frac{2}{125}\sqrt{2730}e^{14} - \frac{4}{25}\sqrt{26}e^{23},$ $\frac{2}{125}\sqrt{715}e^{13} + \frac{26}{125}\sqrt{5}e^{24}, \frac{4}{125}\sqrt{65}e^{16}$	$(\frac{1}{25}, \frac{1}{25}, -\frac{2}{25}, -\frac{2}{25}, 1, \frac{2}{25}, -\frac{1}{25}, -\frac{1}{25}, \frac{3}{25})$ $+ \frac{2}{125}\sqrt{6890}e^5 \otimes e_7$	{12345689, 12679, 1378, 145, 2359, 24789, 3467, 568, 12345689, 12679, 1378, 145, 2359, 24789, 3467, 568}
941:61	$0, 0, 0, 0, 0, \frac{26}{125}\sqrt{5}e^{12}, \frac{2}{125}\sqrt{2730}e^{14} + \frac{4}{25}\sqrt{26}e^{23},$ $\frac{2}{125}\sqrt{715}e^{13} + \frac{26}{125}\sqrt{5}e^{24}, \frac{4}{125}\sqrt{65}e^{16}$	$(\frac{1}{25}, \frac{1}{25}, -\frac{2}{25}, -\frac{2}{25}, 1, \frac{2}{25}, -\frac{1}{25}, -\frac{1}{25}, \frac{3}{25})$ $+ \frac{2}{125}\sqrt{6890}e^5 \otimes e_7$	{12345689, 12679, 1378, 145, 2359, 24789, 3467, 568, 12345689, 12679, 1378, 145, 2359, 24789, 3467, 568}
941:61	$0, 0, 0, 0, 0, \frac{26}{125}\sqrt{5}e^{12}, \frac{2}{125}\sqrt{715}e^{14} - \frac{4}{25}\sqrt{26}e^{23},$ $\frac{2}{125}\sqrt{2730}e^{13} + \frac{26}{125}\sqrt{5}e^{24}, \frac{4}{125}\sqrt{65}e^{16}$	$(\frac{1}{25}, \frac{1}{25}, \frac{43}{125}, \frac{43}{125}, -\frac{87}{125}, \frac{2}{25}, \frac{48}{125}, \frac{48}{125}, \frac{3}{25})$ $+ \frac{2}{125}\sqrt{6890}e^3 \otimes e_5$	{12369, 12456789, 1347, 158, 23489, 2579, 3678, 456, 12369, 12456789, 1347, 158, 23489, 2579, 3678, 456}
941:61	$0, 0, 0, 0, 0, \frac{26}{125}\sqrt{5}e^{12}, \frac{2}{125}\sqrt{715}e^{14} + \frac{4}{25}\sqrt{26}e^{23},$ $\frac{2}{125}\sqrt{2730}e^{13} + \frac{26}{125}\sqrt{5}e^{24}, \frac{4}{125}\sqrt{65}e^{16}$	$(\frac{1}{25}, \frac{1}{25}, \frac{43}{125}, \frac{43}{125}, -\frac{87}{125}, \frac{2}{25}, \frac{48}{125}, \frac{48}{125}, \frac{3}{25})$ $+ \frac{2}{125}\sqrt{6890}e^3 \otimes e_5$	{12369, 12456789, 1347, 158, 23489, 2579, 3678, 456, 12369, 12456789, 1347, 158, 23489, 2579, 3678, 456}
941:61	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{35}\sqrt{187}e^{14} - \frac{2}{35}\sqrt{66}e^{23},$ $\frac{1}{35}\sqrt{11}e^{13} + \frac{2}{35}\sqrt{22}e^{24}, \frac{1}{35}\sqrt{209}e^{16}$	$(-\frac{1}{35}, -\frac{1}{35}, \frac{8}{35}, \frac{8}{35}, -\frac{12}{35}, -\frac{2}{35}, \frac{1}{5}, \frac{1}{5}, -\frac{3}{35})$ $+ \frac{1}{35}\sqrt{341}e^2 \otimes e_5 + \frac{4}{35}\sqrt{22}e^3 \otimes e_9$	{12479, 1345678, 26789, 357, 12479, 1345678, 26789, 357}
941:61	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{35}\sqrt{187}e^{14} + \frac{2}{35}\sqrt{66}e^{23},$ $\frac{1}{35}\sqrt{11}e^{13} + \frac{2}{35}\sqrt{22}e^{24}, \frac{1}{35}\sqrt{209}e^{16}$	$(-\frac{1}{35}, -\frac{1}{35}, \frac{8}{35}, \frac{8}{35}, -\frac{12}{35}, -\frac{2}{35}, \frac{1}{5}, \frac{1}{5}, -\frac{3}{35})$ $+ \frac{1}{35}\sqrt{341}e^2 \otimes e_5 + \frac{4}{35}\sqrt{22}e^3 \otimes e_9$	{12479, 1345678, 26789, 357, 12479, 1345678, 26789, 357}
941:61	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{69}e^{12}, \frac{2}{59}\sqrt{299}e^{14} - \frac{2}{59}\sqrt{506}e^{23},$ $\frac{4}{59}\sqrt{69}e^{13} + \frac{2}{59}\sqrt{69}e^{24}, \frac{4}{59}\sqrt{115}e^{16}$	$(-\frac{7}{59}, -\frac{7}{59}, \frac{25}{59}, \frac{25}{59}, \frac{9}{59}, -\frac{14}{59}, \frac{18}{59}, \frac{18}{59}, -\frac{21}{59})$ $+ \frac{10}{59}\sqrt{46}e^3 \otimes e_9$	{12356, 1236, 1589, 189, 23458, 2348, 4569, 469, 12356, 1236, 1589, 189, 23458, 2348, 4569, 469}
941:61	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{69}e^{12}, \frac{2}{59}\sqrt{299}e^{14} + \frac{2}{59}\sqrt{506}e^{23},$ $\frac{4}{59}\sqrt{69}e^{13} + \frac{2}{59}\sqrt{69}e^{24}, \frac{4}{59}\sqrt{115}e^{16}$	$(-\frac{7}{59}, -\frac{7}{59}, \frac{25}{59}, \frac{25}{59}, \frac{9}{59}, -\frac{14}{59}, \frac{18}{59}, \frac{18}{59}, -\frac{21}{59})$ $+ \frac{10}{59}\sqrt{46}e^3 \otimes e_9$	{12356, 1236, 1589, 189, 23458, 2348, 4569, 469, 12356, 1236, 1589, 189, 23458, 2348, 4569, 469}
941:61	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{1}{41}\sqrt{627}e^{14} - \frac{6}{41}\sqrt{22}e^{23},$ $\frac{1}{41}\sqrt{627}e^{13} + \frac{6}{41}\sqrt{22}e^{24}, \frac{1}{41}\sqrt{561}e^{16}$	$(\frac{5}{41}, \frac{5}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{10}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^2 \otimes e_5$	{12389, 1345678, 156, 23469, 26789, 357, 12389, 1345678, 156, 23469, 26789, 357}
941:61	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{1}{41}\sqrt{627}e^{14} + \frac{6}{41}\sqrt{22}e^{23},$ $\frac{1}{41}\sqrt{627}e^{13} + \frac{6}{41}\sqrt{22}e^{24}, \frac{1}{41}\sqrt{561}e^{16}$	$(\frac{5}{41}, \frac{5}{41}, \frac{4}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{10}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^2 \otimes e_5$	{12389, 1345678, 156, 23469, 26789, 357, 12389, 1345678, 156, 23469, 26789, 357}
941:61	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{70}\sqrt{66}e^{14} - \frac{1}{70}\sqrt{374}e^{23},$ $\frac{1}{70}\sqrt{638}e^{13} + \frac{1}{70}\sqrt{330}e^{24}, \frac{1}{35}\sqrt{209}e^{16}$	$(-\frac{1}{35}, -\frac{1}{35}, \frac{8}{35}, \frac{8}{35}, -\frac{12}{35}, -\frac{2}{35}, \frac{1}{5}, \frac{1}{5}, -\frac{3}{35})$ $+ \frac{1}{35}\sqrt{341}e^1 \otimes e_5 + \frac{4}{35}\sqrt{22}e^3 \otimes e_9$	{124789, 13467, 25679, 3578, 124789, 13467, 25679, 3578}
941:61	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{70}\sqrt{66}e^{14} + \frac{1}{70}\sqrt{374}e^{23},$ $\frac{1}{70}\sqrt{638}e^{13} + \frac{1}{70}\sqrt{330}e^{24}, \frac{1}{35}\sqrt{209}e^{16}$	$(-\frac{1}{35}, -\frac{1}{35}, \frac{8}{35}, \frac{8}{35}, -\frac{12}{35}, -\frac{2}{35}, \frac{1}{5}, \frac{1}{5}, -\frac{3}{35})$ $+ \frac{1}{35}\sqrt{341}e^1 \otimes e_5 + \frac{4}{35}\sqrt{22}e^3 \otimes e_9$	{124789, 13467, 25679, 3578, 124789, 13467, 25679, 3578}
941:61	$0, 0, 0, 0, 0, \frac{5}{41}\sqrt{14}e^{12}, \frac{10}{41}\sqrt{5}e^{14} - \frac{5}{41}\sqrt{14}e^{23},$ $\frac{10}{41}\sqrt{5}e^{13} + \frac{5}{41}\sqrt{14}e^{24}, \frac{10}{41}\sqrt{17}e^{16}$	$(-\frac{3}{41}, -\frac{3}{41}, \frac{9}{41}, \frac{9}{41}, 1, -\frac{6}{41}, \frac{6}{41}, \frac{6}{41}, -\frac{9}{41})$ $+ \frac{5}{41}\sqrt{134}e^5 \otimes e_9$	{12389, 1345678, 156, 23469, 26789, 357, 12389, 1345678, 156, 23469, 26789, 357}
941:61	$0, 0, 0, 0, 0, \frac{5}{41}\sqrt{14}e^{12}, \frac{10}{41}\sqrt{5}e^{14} + \frac{5}{41}\sqrt{14}e^{23},$ $\frac{10}{41}\sqrt{5}e^{13} + \frac{5}{41}\sqrt{14}e^{24}, \frac{10}{41}\sqrt{17}e^{16}$	$(-\frac{3}{41}, -\frac{3}{41}, \frac{9}{41}, \frac{9}{41}, 1, -\frac{6}{41}, \frac{6}{41}, \frac{6}{41}, -\frac{9}{41})$ $+ \frac{5}{41}\sqrt{134}e^5 \otimes e_9$	{12389, 1345678, 156, 23469, 26789, 357, 12389, 1345678, 156, 23469, 26789, 357}
941:62	$0, 0, 0, 0, 0, \frac{23}{3869}\sqrt{2798}e^{12}, \frac{138}{3869}\sqrt{94}e^{34},$ $\frac{92}{3869}\sqrt{93}e^{14} + \frac{23}{3869}\sqrt{834}e^{23}, \frac{92}{3869}\sqrt{110}e^{13} + \frac{23}{3869}\sqrt{2302}e^{26}$	$(\frac{621}{3869}, \frac{23}{3869}, \frac{46}{3869}, -\frac{552}{3869}, -\frac{483}{3869}, \frac{644}{3869}, -\frac{506}{3869}, \frac{69}{3869}, \frac{667}{3869})$ $+ \frac{23}{3869}\sqrt{1758}e^3 \otimes e_5 + \frac{46}{3869}\sqrt{1297}e^2 \otimes e_7$	{2346, 378}
941:62	$0, 0, 0, 0, 0, \frac{24}{2453}\sqrt{6283}e^{12}, \frac{6}{2453}\sqrt{29870}e^{34},$ $\frac{18}{2453}\sqrt{2266}e^{14} + \frac{12}{2453}\sqrt{9682}e^{23}, \frac{6}{2453}\sqrt{67259}e^{13} + \frac{6}{2453}\sqrt{93730}e^{26}$	$(\frac{270}{2453}, \frac{191}{2453}, \frac{382}{2453}, \frac{303}{2453}, -\frac{1663}{2453}, \frac{461}{2453}, \frac{685}{2453}, \frac{573}{2453}, \frac{652}{2453})$ $+ \frac{42}{2453}\sqrt{4326}e^2 \otimes e_5$	{12379, 1345689, 2346, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:62	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{55}e^{12}, \frac{4}{77}\sqrt{77}e^{34}, \frac{2}{77}\sqrt{143}e^{14} + \frac{2}{77}\sqrt{231}e^{23},$ $\frac{2}{77}\sqrt{11}e^{13} + \frac{4}{77}\sqrt{66}e^{26}$	$(-\frac{1}{7}, 0, 0, \frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{10}{77}\sqrt{11}e^5 \otimes e_7 + \frac{4}{7}e^4 \otimes e_9$	{15689, 478}
941:62	$0, 0, 0, 0, 0, \frac{74}{4429}\sqrt{415}e^{12}, \frac{74}{4429}\sqrt{498}e^{34},$ $\frac{37}{4429}\sqrt{1162}e^{14} + \frac{37}{4429}\sqrt{1094}e^{23}, \frac{74}{4429}\sqrt{149}e^{13} + \frac{74}{4429}\sqrt{879}e^{26}$	$(-\frac{592}{4429}, \frac{185}{4429}, \frac{370}{4429}, \frac{1147}{4429}, -\frac{1184}{4429}, -\frac{407}{4429}, \frac{1517}{4429}, \frac{555}{4429}, -\frac{222}{4429})$ $+ \frac{37}{4429}\sqrt{3410}e^2 \otimes e_5 + \frac{37}{4429}\sqrt{4406}e^4 \otimes e_9$	{123789, 23468}
941:62	$0, 0, 0, 0, 0, \frac{40}{939}\sqrt{51}e^{12}, \frac{10}{939}\sqrt{1322}e^{34}, \frac{10}{939}\sqrt{914}e^{14} + \frac{20}{939}\sqrt{258}e^{23},$ $\frac{20}{939}\sqrt{23}e^{13} + \frac{10}{939}\sqrt{494}e^{26}$	$(\frac{50}{313}, \frac{20}{939}, \frac{40}{939}, -\frac{30}{313}, -\frac{290}{939}, \frac{170}{939}, -\frac{50}{939}, \frac{20}{313}, \frac{190}{939})$ $+ \frac{10}{939}\sqrt{1518}e^4 \otimes e_5 + \frac{20}{939}\sqrt{470}e^1 \otimes e_7$	{13469, 357}
941:62	$0, 0, 0, 0, 0, \frac{4}{799}\sqrt{874}e^{12}, \frac{4}{799}\sqrt{874}e^{34}, \frac{4}{799}\sqrt{437}e^{14} + \frac{2}{799}\sqrt{48507}e^{23},$ $\frac{4}{799}\sqrt{24035}e^{13} + \frac{46}{799}\sqrt{190}e^{26}$	$(-\frac{95}{799}, \frac{10}{799}, \frac{20}{799}, \frac{125}{799}, 1, -\frac{5}{47}, \frac{145}{799}, \frac{30}{799}, -\frac{75}{799})$ $+ \frac{2}{799}\sqrt{289294}e^5 \otimes e_9$	{12479, 1689, 256, 4578}
941:62	$0, 0, 0, 0, 0, \frac{13}{1487}\sqrt{330}e^{12}, \frac{26}{1487}\sqrt{582}e^{34},$ $\frac{26}{1487}\sqrt{222}e^{14} + \frac{39}{1487}\sqrt{74}e^{23}, \frac{26}{1487}\sqrt{429}e^{13} + \frac{13}{1487}\sqrt{1554}e^{26}$	$(-\frac{221}{1487}, \frac{65}{1487}, \frac{130}{1487}, \frac{416}{1487}, -\frac{377}{1487}, -\frac{156}{1487}, \frac{546}{1487}, \frac{195}{1487}, -\frac{91}{1487})$ $+ \frac{13}{1487}\sqrt{3210}e^3 \otimes e_5 + \frac{26}{1487}\sqrt{1191}e^4 \otimes e_9$	{134, 3679}
941:62	$0, 0, 0, 0, 0, \frac{4}{939}\sqrt{159}e^{12}, \frac{2}{939}\sqrt{1238}e^{34}, \frac{4}{939}\sqrt{230}e^{14} + \frac{24}{313}e^{23},$ $\frac{2}{939}\sqrt{418}e^{13} + \frac{4}{939}\sqrt{251}e^{26}$	$(-\frac{2}{313}, -\frac{4}{939}, -\frac{8}{939}, -\frac{2}{313}, \frac{82}{939}, -\frac{10}{939}, -\frac{14}{939}, -\frac{4}{313}, -\frac{14}{939})$ $+ \frac{2}{939}\sqrt{1622}e^1 \otimes e_7 - \frac{2}{939}\sqrt{1806}e^4 \otimes e_9$	{15689, 1689, 4578, 478}
941:62	$0, 0, 0, 0, 0, \frac{4}{939}\sqrt{159}e^{12}, \frac{2}{939}\sqrt{1238}e^{34}, \frac{4}{939}\sqrt{230}e^{14} + \frac{24}{313}e^{23},$ $\frac{2}{939}\sqrt{418}e^{13} + \frac{4}{939}\sqrt{251}e^{26}$	$(-\frac{2}{313}, -\frac{4}{939}, -\frac{8}{939}, -\frac{2}{313}, \frac{82}{939}, -\frac{10}{939}, -\frac{14}{939}, -\frac{4}{313}, -\frac{14}{939})$ $+ \frac{2}{939}\sqrt{1622}e^1 \otimes e_7 + \frac{2}{939}\sqrt{1806}e^4 \otimes e_9$	{15689, 1689, 4578, 478}
941:62	$0, 0, 0, 0, 0, \frac{45}{1339}\sqrt{118}e^{12}, \frac{45}{1339}\sqrt{118}e^{34}, \frac{75}{1339}\sqrt{78}e^{14} + \frac{270}{1339}e^{23},$ $\frac{120}{1339}\sqrt{6}e^{13} + \frac{105}{1339}\sqrt{6}e^{26}$	$(\frac{300}{1339}, -\frac{15}{1339}, -\frac{30}{1339}, -\frac{345}{1339}, \frac{630}{1339}, \frac{285}{1339}, -\frac{375}{1339}, -\frac{45}{1339}, \frac{270}{1339})$ $+ \frac{15}{1339}\sqrt{2838}e^5 \otimes e_8 + \frac{15}{1339}\sqrt{4254}e^1 \otimes e_7$	{1689, 478}
941:62	$0, 0, 0, 0, 0, \frac{26}{751}\sqrt{290}e^{12}, \frac{26}{751}\sqrt{290}e^{34},$ $\frac{2}{751}\sqrt{97266}e^{14} + \frac{4}{751}\sqrt{26390}e^{23}, \frac{2}{751}\sqrt{16211}e^{13} + \frac{4}{751}\sqrt{4147}e^{26}$	$(\frac{20}{751}, -\frac{1}{751}, -\frac{2}{751}, -\frac{23}{751}, 1, \frac{19}{751}, -\frac{25}{751}, -\frac{3}{751}, \frac{18}{751})$ $+ \frac{2}{751}\sqrt{243542}e^5 \otimes e_8$	{12345679, 1389, 235, 34678}
941:62	$0, 0, 0, 0, 0, \frac{24}{2477}\sqrt{395}e^{12}, \frac{6}{2477}\sqrt{61462}e^{34},$ $\frac{18}{2477}\sqrt{6478}e^{14} + \frac{6}{2477}\sqrt{64859}e^{23}, \frac{6}{2477}\sqrt{17854}e^{13} + \frac{192}{2477}\sqrt{79}e^{26}$	$(-\frac{661}{2477}, \frac{100}{2477}, \frac{200}{2477}, \frac{961}{2477}, \frac{383}{2477}, -\frac{561}{2477}, \frac{1161}{2477}, \frac{300}{2477}, -\frac{461}{2477})$ $+ \frac{6}{2477}\sqrt{165426}e^4 \otimes e_9$	{15689, 1689, 4578, 478}
941:62	$0, 0, 0, 0, 0, \frac{15}{38}e^{12}, \frac{45}{76}\sqrt{2}e^{34}, \frac{15}{19}e^{14} + \frac{5}{76}\sqrt{87}e^{23},$ $\frac{5}{76}\sqrt{87}e^{13} + \frac{5}{38}\sqrt{21}e^{26}$	$(-\frac{5}{152}, \frac{15}{152}, \frac{15}{76}, \frac{25}{76}, -\frac{25}{38}, \frac{5}{76}, \frac{10}{19}, \frac{45}{152}, \frac{25}{152})$ $+ \frac{15}{76}\sqrt{42}e^4 \otimes e_5$	{1235789, 13469, 23468, 357}
941:62	$0, 0, 0, 0, 0, \frac{2}{815}\sqrt{37558}e^{12}, \frac{2}{815}\sqrt{37558}e^{34}, \frac{24}{815}\sqrt{89}e^{14} + \frac{4}{815}\sqrt{534}e^{23},$ $\frac{2}{815}\sqrt{29459}e^{13} + \frac{2}{815}\sqrt{33286}e^{26}$	$(\frac{158}{815}, -\frac{1}{163}, -\frac{2}{163}, -\frac{173}{815}, \frac{21}{163}, \frac{153}{815}, -\frac{183}{815}, -\frac{3}{163}, \frac{148}{815})$ $+ \frac{2}{815}\sqrt{63190}e^2 \otimes e_7$	{23456, 2346, 3578, 378}
941:62	$0, 0, 0, 0, 0, \frac{7}{4421}\sqrt{2946}e^{12}, \frac{14}{4421}\sqrt{986}e^{34},$ $\frac{14}{4421}\sqrt{3}e^{14} + \frac{14}{4421}\sqrt{249}e^{23}, \frac{7}{4421}\sqrt{1982}e^{13} + \frac{14}{4421}\sqrt{985}e^{26}$	$(-\frac{35}{4421}, -\frac{21}{4421}, -\frac{42}{4421}, -\frac{28}{4421}, \frac{441}{4421}, -\frac{56}{4421}, -\frac{70}{4421}, -\frac{63}{4421}, -\frac{77}{4421})$ $+ \frac{7}{4421}\sqrt{2994}e^4 \otimes e_9 + \frac{7}{4421}\sqrt{4966}e^2 \otimes e_7$	{135679, 13679}
941:62	$0, 0, 0, 0, 0, \frac{6}{2405}\sqrt{70358}e^{12}, \frac{12}{2405}\sqrt{3683}e^{34},$ $\frac{36}{2405}\sqrt{2159}e^{14} + \frac{6}{2405}\sqrt{55499}e^{23}, \frac{12}{2405}\sqrt{18034}e^{13} + \frac{12}{2405}\sqrt{2794}e^{26}$	$(\frac{671}{2405}, \frac{38}{481}, \frac{76}{481}, -\frac{101}{2405}, -\frac{323}{481}, \frac{861}{2405}, \frac{279}{481}, \frac{114}{2405}, \frac{1051}{2405})$ $+ \frac{6}{2405}\sqrt{255270}e^1 \otimes e_5$	{1249, 16789, 2567, 458}
941:62	$0, 0, 0, 0, 0, \frac{41}{4189}\sqrt{470}e^{12}, \frac{164}{4189}\sqrt{70}e^{34},$ $\frac{41}{4189}\sqrt{2694}e^{14} + \frac{410}{4189}\sqrt{7}e^{23}, \frac{41}{4189}\sqrt{346}e^{13} + \frac{41}{4189}\sqrt{2018}e^{26}$	$(-\frac{820}{4189}, \frac{41}{4189}, \frac{82}{4189}, \frac{943}{4189}, \frac{1804}{4189}, -\frac{779}{4189}, \frac{1025}{4189}, \frac{123}{4189}, -\frac{738}{4189})$ $+ \frac{123}{4189}\sqrt{530}e^4 \otimes e_9 + \frac{41}{4189}\sqrt{2678}e^5 \otimes e_8$	{1345, 35679}
941:62	$0, 0, 0, 0, 0, \frac{4}{831}\sqrt{20803}e^{12}, \frac{4}{831}\sqrt{20803}e^{34},$ $\frac{2}{831}\sqrt{41606}e^{14} + \frac{2}{831}\sqrt{74715}e^{23}, \frac{4}{831}\sqrt{6739}e^{13} + \frac{20}{831}\sqrt{293}e^{26}$	$(\frac{313}{831}, \frac{8}{831}, \frac{16}{831}, -\frac{289}{831}, \frac{137}{831}, \frac{107}{831}, -\frac{91}{277}, \frac{8}{277}, \frac{329}{831})$ $+ \frac{2}{831}\sqrt{203342}e^1 \otimes e_7$	{15689, 1689, 4578, 478}
941:62	$0, 0, 0, 0, 0, \frac{10}{667}\sqrt{262}e^{12}, \frac{10}{667}\sqrt{319}e^{34}, \frac{30}{667}\sqrt{3}e^{14} + \frac{20}{667}\sqrt{6}e^{23},$ $\frac{10}{667}\sqrt{239}e^{13} + \frac{10}{667}\sqrt{253}e^{26}$	$(\frac{70}{667}, \frac{5}{667}, \frac{10}{667}, -\frac{55}{667}, -\frac{105}{667}, \frac{75}{667}, -\frac{45}{667}, \frac{15}{667}, \frac{80}{667})$ $+ \frac{10}{667}\sqrt{430}e^2 \otimes e_7 + \frac{30}{667}\sqrt{19}e^4 \otimes e_5$	{123489, 135679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:62	$0, 0, 0, 0, 0, \frac{6}{55}\sqrt{33}e^{12}, \frac{12}{55}\sqrt{22}e^{34}, \frac{6}{55}\sqrt{11}e^{14} + \frac{2}{55}\sqrt{231}e^{23},$ $\frac{2}{55}\sqrt{231}e^{13} + \frac{4}{55}\sqrt{66}e^{26}$	$(\frac{1}{5}, 0, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{6}{55}\sqrt{165}e^5 \otimes e_7$	{1234589, 13679, 23678, 345}
941:62	$0, 0, 0, 0, 0, \frac{164}{5001}\sqrt{233}e^{12}, \frac{41}{5001}\sqrt{2298}e^{34},$ $\frac{41}{5001}\sqrt{434}e^{14} + \frac{41}{5001}\sqrt{870}e^{23}, \frac{41}{5001}\sqrt{746}e^{13} + \frac{82}{5001}\sqrt{590}e^{26}$	$(\frac{1148}{5001}, \frac{41}{1667}, \frac{82}{1667}, -\frac{779}{5001}, -\frac{1558}{5001}, \frac{1271}{5001}, -\frac{533}{5001}, \frac{123}{1667}, \frac{1394}{5001})$ $+ \frac{41}{5001}\sqrt{4290}e^2 \otimes e_5 + \frac{41}{5001}\sqrt{4538}e^1 \otimes e_7$	{134569, 357}
941:62	$0, 0, 0, 0, 0, \frac{43}{5181}\sqrt{1382}e^{12}, \frac{86}{5181}\sqrt{699}e^{34}, \frac{172}{5181}e^{14} + \frac{43}{1727}\sqrt{30}e^{23},$ $\frac{86}{5181}\sqrt{565}e^{13} + \frac{43}{5181}\sqrt{310}e^{26}$	$(\frac{1247}{5181}, \frac{43}{1727}, \frac{86}{1727}, -\frac{860}{5181}, -\frac{1591}{5181}, \frac{1376}{5181}, -\frac{602}{5181}, \frac{129}{1727}, \frac{1505}{5181})$ $+ \frac{43}{5181}\sqrt{4242}e^3 \otimes e_5 + \frac{86}{5181}\sqrt{1265}e^1 \otimes e_7$	{12348, 236789}
941:62	$0, 0, 0, 0, 0, \frac{24}{449}\sqrt{70}e^{12}, \frac{24}{449}\sqrt{70}e^{34}, \frac{24}{449}\sqrt{21}e^{14} + \frac{40}{449}\sqrt{3}e^{23},$ $\frac{16}{449}\sqrt{129}e^{13} + \frac{72}{449}\sqrt{7}e^{26}$	$(\frac{80}{449}, -\frac{4}{449}, -\frac{8}{449}, -\frac{92}{449}, \frac{84}{449}, \frac{76}{449}, -\frac{100}{449}, -\frac{12}{449}, \frac{72}{449})$ $+ \frac{8}{449}\sqrt{1095}e^2 \otimes e_7 + \frac{8}{449}\sqrt{87}e^5 \otimes e_8$	{23456, 378}
941:62	$0, 0, 0, 0, 0, \frac{27}{1387}\sqrt{394}e^{12}, \frac{27}{1387}\sqrt{394}e^{34},$ $\frac{9}{1387}\sqrt{1254}e^{14} + \frac{18}{1387}\sqrt{3}e^{23}, \frac{54}{1387}\sqrt{66}e^{13} + \frac{9}{1387}\sqrt{3570}e^{26}$	$(\frac{9}{73}, -\frac{18}{1387}, -\frac{36}{1387}, -\frac{225}{1387}, \frac{378}{1387}, \frac{153}{1387}, -\frac{261}{1387}, -\frac{54}{1387}, \frac{135}{1387})$ $+ \frac{9}{1387}\sqrt{1326}e^5 \otimes e_9 + \frac{9}{1387}\sqrt{6054}e^2 \otimes e_7$	{123489, 13679}
941:62	$0, 0, 0, 0, 0, \frac{3}{286}\sqrt{1653}e^{12}, \frac{3}{286}\sqrt{3021}e^{34},$ $\frac{9}{572}\sqrt{1406}e^{14} + \frac{3}{572}\sqrt{20805}e^{23}, \frac{3}{572}\sqrt{20805}e^{13} + \frac{57}{572}\sqrt{30}e^{26}$	$(\frac{133}{1144}, \frac{101}{1144}, \frac{101}{572}, \frac{85}{572}, \frac{103}{44}, \frac{93}{286}, \frac{303}{1144}, \frac{335}{1144})$ $+ \frac{9}{286}\sqrt{1558}e^3 \otimes e_5$	{12456789, 159, 258, 4567}
941:62	$0, 0, 0, 0, 0, \frac{4}{121}\sqrt{37}e^{12}, \frac{4}{121}\sqrt{55}e^{34}, \frac{4}{121}\sqrt{105}e^{14} + \frac{8}{121}\sqrt{26}e^{23},$ $\frac{8}{121}\sqrt{15}e^{13} + \frac{12}{121}\sqrt{10}e^{26}$	$(-\frac{10}{121}, \frac{4}{121}, \frac{8}{121}, \frac{2}{11}, -\frac{34}{121}, -\frac{6}{121}, \frac{30}{121}, \frac{12}{121}, -\frac{2}{121})$ $+ \frac{4}{121}\sqrt{137}e^1 \otimes e_5 + \frac{4}{121}\sqrt{191}e^4 \otimes e_9$	{1689, 4578}
941:62	$0, 0, 0, 0, 0, \frac{48}{1061}\sqrt{35}e^{14} + \frac{32}{1061}\sqrt{201}e^{23}, \frac{16}{1061}\sqrt{615}e^{13} + \frac{144}{1061}\sqrt{7}e^{26}$	$(\frac{152}{1061}, -\frac{16}{1061}, -\frac{32}{1061}, -\frac{200}{1061}, \frac{504}{1061}, \frac{136}{1061}, -\frac{232}{1061}, -\frac{48}{1061}, \frac{120}{1061})$ $+ \frac{16}{1061}\sqrt{1167}e^5 \otimes e_9 + \frac{16}{1061}\sqrt{1671}e^1 \otimes e_7$	{1689, 4578}
941:63	$0, 0, 0, 0, 0, \frac{10}{297}\sqrt{155}e^{12}, \frac{50}{297}\sqrt{11}e^{34}, \frac{5}{99}\sqrt{10}e^{13} + \frac{5}{297}\sqrt{70}e^{24},$ $\frac{20}{297}\sqrt{15}e^{16} + \frac{5}{297}\sqrt{310}e^{35}$	$(-\frac{5}{33}, \frac{115}{297}, \frac{25}{99}, \frac{85}{297}, -\frac{50}{297}, \frac{70}{297}, -\frac{10}{297}, \frac{10}{99}, \frac{25}{297})$ $+ \frac{20}{297}\sqrt{95}e^2 \otimes e_7 + \frac{5}{297}\sqrt{1130}e^3 \otimes e_5$	{37, 4578}
941:63	$0, 0, 0, 0, 0, \frac{58}{4661}\sqrt{165}e^{12}, \frac{29}{4661}\sqrt{122}e^{34},$ $\frac{464}{4661}\sqrt{3}e^{13} + \frac{58}{4661}\sqrt{906}e^{24}, \frac{29}{4661}\sqrt{1086}e^{16} + \frac{1131}{4661}\sqrt{2}e^{35}$	$(\frac{609}{4661}, -\frac{1044}{4661}, -\frac{638}{4661}, \frac{1015}{4661}, \frac{812}{4661}, -\frac{435}{4661}, \frac{377}{4661}, -\frac{29}{4661}, \frac{174}{4661})$ $+ \frac{116}{4661}\sqrt{291}e^4 \otimes e_9 + \frac{29}{4661}\sqrt{3790}e^5 \otimes e_8$	{1579, 23457}
941:63	$0, 0, 0, 0, 0, \frac{3}{157}\sqrt{707}e^{12}, \frac{1}{157}\sqrt{10706}e^{34}, \frac{157}{157}\sqrt{606}e^{13} + \frac{1}{157}\sqrt{13029}e^{24},$ $\frac{3}{157}\sqrt{707}e^{16} + \frac{1}{157}\sqrt{13029}e^{35}$	$(\frac{33}{157}, -\frac{15}{157}, -\frac{83}{314}, \frac{13}{314}, \frac{185}{314}, \frac{18}{157}, -\frac{35}{157}, -\frac{17}{314}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{28078}e^5 \otimes e_8$	{135, 148, 2389, 2459}
941:63	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{39}e^{12}, \frac{4}{17}\sqrt{13}e^{34}, \frac{2}{17}\sqrt{6}e^{13} + \frac{2}{17}\sqrt{39}e^{24},$ $\frac{2}{17}\sqrt{39}e^{16} + \frac{2}{17}\sqrt{39}e^{35}$	$(0, \frac{3}{17}, -\frac{1}{34}, -\frac{7}{34}, \frac{7}{34}, \frac{3}{17}, -\frac{4}{17}, -\frac{1}{34}, \frac{3}{17})$ $+ \frac{2}{17}\sqrt{38}e^5 \otimes e_8 + \frac{2}{17}\sqrt{66}e^1 \otimes e_7$	{1234589, 129}
941:63	$0, 0, 0, 0, 0, \frac{6}{2813}\sqrt{12070}e^{12}, \frac{12}{2813}\sqrt{12993}e^{34},$ $\frac{6}{2813}\sqrt{76467}e^{13} + \frac{12}{2813}\sqrt{17679}e^{24}, \frac{12}{2813}\sqrt{18886}e^{16} + \frac{6}{2813}\sqrt{49558}e^{35}$	$(\frac{272}{2813}, -\frac{737}{2813}, \frac{76}{2813}, \frac{1085}{2813}, -\frac{269}{2813}, -\frac{465}{2813}, \frac{1161}{2813}, \frac{12}{97}, -\frac{193}{2813})$ $+ \frac{24}{2813}\sqrt{10579}e^4 \otimes e_9$	{123789, 134568, 25689, 478}
941:63	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{8}{999}\sqrt{1126}e^{34}, \frac{32}{111}e^{13} + \frac{16}{999}\sqrt{211}e^{24},$ $\frac{16}{999}\sqrt{239}e^{16} + \frac{8}{999}\sqrt{1070}e^{35}$	$(\frac{112}{999}, -\frac{184}{999}, -\frac{128}{999}, \frac{56}{333}, \frac{56}{333}, -\frac{8}{111}, \frac{40}{999}, -\frac{16}{999}, \frac{40}{999})$ $+ \frac{56}{999}\sqrt{46}e^4 \otimes e_9 - \frac{8}{999}\sqrt{1354}e^5 \otimes e_7$	{123789, 134568, 25689, 478}
941:63	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{8}{999}\sqrt{1126}e^{34}, \frac{32}{111}e^{13} + \frac{16}{999}\sqrt{211}e^{24},$ $\frac{16}{999}\sqrt{239}e^{16} + \frac{8}{999}\sqrt{1070}e^{35}$	$(\frac{112}{999}, -\frac{184}{999}, -\frac{128}{999}, \frac{56}{333}, \frac{56}{333}, -\frac{8}{111}, \frac{40}{999}, -\frac{16}{999}, \frac{40}{999})$ $+ \frac{56}{999}\sqrt{46}e^4 \otimes e_9 + \frac{8}{999}\sqrt{1354}e^5 \otimes e_7$	{123789, 134568, 25689, 478}
941:63	$0, 0, 0, 0, 0, \frac{10}{2741}\sqrt{20258}e^{12}, \frac{4}{2741}\sqrt{305317}e^{34},$ $\frac{2}{2741}\sqrt{713371}e^{13} + \frac{12}{2741}\sqrt{2894}e^{24}, \frac{4}{2741}\sqrt{24599}e^{16} + \frac{6}{2741}\sqrt{124442}e^{35}$	$(\frac{560}{2741}, \frac{207}{2741}, -\frac{640}{2741}, -\frac{287}{2741}, \frac{1967}{2741}, \frac{767}{2741}, -\frac{927}{2741}, -\frac{80}{2741}, \frac{1327}{2741})$ $+ \frac{8}{2741}\sqrt{204027}e^5 \otimes e_7$	{1259, 1467, 23679, 345}
941:63	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{14}e^{12}, \frac{1}{29}\sqrt{26}e^{34}, \frac{2}{29}\sqrt{3}e^{13} + \frac{4}{29}e^{24},$ $\frac{1}{29}\sqrt{14}e^{16} + \frac{4}{29}e^{35}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, 0, \frac{2}{29}, -\frac{2}{29}, 0, \frac{1}{29})$ $+ \frac{1}{29}\sqrt{34}e^1 \otimes e_7 + \frac{2}{29}\sqrt{5}e^3 \otimes e_5$	{1346, 1568, 378, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:63	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{14}e^{12}, \frac{1}{29}\sqrt{26}e^{34}, \frac{2}{29}\sqrt{3}e^{13} + \frac{4}{29}e^{24},$ $\frac{1}{29}\sqrt{14}e^{16} + \frac{4}{29}e^{35}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, 0, \frac{2}{29}, -\frac{2}{29}, 0, \frac{1}{29})$ $+\frac{1}{29}\sqrt{34}e^1 \otimes e_7 - \frac{2}{29}\sqrt{5}e^3 \otimes e_5$	{1346, 1568, 378, 457}
941:63	$0, 0, 0, 0, 0, \frac{114}{4469}\sqrt{59}e^{12}, \frac{19}{4469}\sqrt{3486}e^{34},$ $\frac{76}{4469}\sqrt{73}e^{13} + \frac{57}{4469}\sqrt{6}e^{24}, \frac{76}{4469}\sqrt{219}e^{16} + \frac{19}{4469}\sqrt{406}e^{35}$	$(\frac{399}{4469}, -\frac{627}{4469}, -\frac{494}{4469}, \frac{532}{4469}, \frac{665}{4469}, -\frac{228}{4469}, \frac{38}{4469}, -\frac{95}{4469}, \frac{171}{4469})$ $+\frac{19}{4469}\sqrt{4334}e^1 \otimes e_7 + \frac{76}{4469}\sqrt{230}e^4 \otimes e_9$	{13468, 4578}
941:63	$0, 0, 0, 0, 0, \frac{13}{1343}\sqrt{282}e^{12}, \frac{234}{1343}\sqrt{7}e^{34},$ $\frac{13}{1343}\sqrt{1578}e^{13} + \frac{26}{1343}\sqrt{435}e^{24}, \frac{13}{1343}\sqrt{2226}e^{16} + \frac{26}{1343}\sqrt{273}e^{35}$	$(\frac{13}{1343}, -\frac{169}{1343}, \frac{182}{1343}, \frac{364}{1343}, -\frac{325}{1343}, -\frac{156}{1343}, \frac{546}{1343}, \frac{195}{1343}, -\frac{143}{1343})$ $+\frac{13}{1343}\sqrt{1866}e^3 \otimes e_5 + \frac{936}{1343}e^4 \otimes e_9$	{123789, 25689}
941:63	$0, 0, 0, 0, 0, \frac{57}{821}\sqrt{10}e^{12}, \frac{19}{821}\sqrt{26}e^{34}, \frac{76}{821}\sqrt{3}e^{13} + \frac{19}{821}\sqrt{510}e^{24},$ $\frac{114}{821}\sqrt{2}e^{16} + \frac{38}{821}\sqrt{87}e^{35}$	$(\frac{57}{821}, \frac{114}{821}, -\frac{95}{821}, -\frac{152}{821}, \frac{323}{821}, \frac{171}{821}, -\frac{247}{821}, -\frac{38}{821}, \frac{228}{821})$ $+\frac{19}{821}\sqrt{814}e^5 \otimes e_8 + \frac{342}{821}\sqrt{2}e^2 \otimes e_7$	{34789, 579}
941:63	$0, 0, 0, 0, 0, \frac{2}{701}\sqrt{66810}e^{12}, \frac{4}{701}\sqrt{17085}e^{34},$ $\frac{6}{701}\sqrt{6035}e^{13} + \frac{16}{701}\sqrt{510}e^{24}, \frac{4}{701}\sqrt{7395}e^{16} + \frac{6}{701}\sqrt{510}e^{35}$	$(-\frac{48}{701}, \frac{311}{701}, \frac{80}{701}, -\frac{279}{701}, \frac{135}{701}, \frac{263}{701}, -\frac{199}{701}, \frac{32}{701}, \frac{215}{701})$ $+\frac{4}{701}\sqrt{37230}e^2 \otimes e_7$	{234569, 2689, 37, 4578}
941:63	$0, 0, 0, 0, 0, \frac{1}{169}\sqrt{8174}e^{12}, \frac{1}{169}\sqrt{10126}e^{34}, \frac{4}{169}\sqrt{122}e^{13} + \frac{4}{169}\sqrt{366}e^{24},$ $\frac{1}{169}\sqrt{8174}e^{16} + \frac{4}{169}\sqrt{366}e^{35}$	$(\frac{19}{169}, \frac{3}{169}, -\frac{29}{169}, -\frac{1}{13}, \frac{70}{169}, \frac{22}{169}, -\frac{42}{169}, -\frac{10}{169}, \frac{41}{169})$ $+\frac{7}{169}\sqrt{366}e^1 \otimes e_7$	{1346, 1568, 378, 457}
941:63	$0, 0, 0, 0, 0, \frac{2}{991}\sqrt{191}e^{12}, \frac{2}{991}\sqrt{318}e^{34}, \frac{2}{991}\sqrt{367}e^{13} + \frac{2}{991}\sqrt{283}e^{24},$ $\frac{4}{991}\sqrt{70}e^{16} + \frac{22}{991}e^{35}$	$(-\frac{12}{991}, \frac{15}{991}, \frac{20}{991}, -\frac{7}{991}, -\frac{29}{991}, \frac{3}{991}, \frac{13}{991}, \frac{8}{991}, -\frac{9}{991})$ $+\frac{2}{991}\sqrt{397}e^2 \otimes e_7 + \frac{2}{991}\sqrt{502}e^4 \otimes e_9$	{25689, 478}
941:63	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{330}e^{12}, \frac{18}{161}\sqrt{55}e^{34}, \frac{55}{161}\sqrt{6}e^{13} + \frac{2}{161}\sqrt{2310}e^{24},$ $\frac{1}{161}\sqrt{330}e^{16} + \frac{2}{161}\sqrt{2310}e^{35}$	$(-\frac{29}{161}, \frac{53}{161}, \frac{80}{161}, -\frac{2}{161}, -\frac{85}{161}, \frac{24}{161}, \frac{78}{161}, \frac{51}{161}, -\frac{5}{161})$ $+\frac{1}{161}\sqrt{45210}e^3 \otimes e_5$	{134, 158, 3678, 4567}
941:64	$0, 0, 0, 0, 0, \frac{10}{2341}\sqrt{3045}e^{12}, \frac{10}{2341}\sqrt{18165}e^{34},$ $\frac{20}{2341}\sqrt{5495}e^{14} + \frac{10}{2341}\sqrt{17535}e^{23}, \frac{40}{2341}\sqrt{770}e^{16} + \frac{30}{2341}\sqrt{2555}e^{35}$	$(-\frac{679}{2341}, \frac{802}{2341}, -\frac{287}{2341}, \frac{1194}{2341}, \frac{269}{2341}, \frac{123}{2341}, \frac{907}{2341}, \frac{515}{2341}, -\frac{556}{2341})$ $+\frac{210}{2341}\sqrt{155}e^4 \otimes e_9$	{123789, 13456, 2569, 478}
941:64	$0, 0, 0, 0, 0, \frac{6}{2273}\sqrt{36043}e^{12}, \frac{6}{2273}\sqrt{88046}e^{34},$ $\frac{12}{2273}\sqrt{266}e^{14} + \frac{6}{2273}\sqrt{55195}e^{23}, \frac{12}{2273}\sqrt{3458}e^{16} + \frac{6}{2273}\sqrt{94430}e^{35}$	$(\frac{231}{2273}, \frac{534}{2273}, -\frac{567}{2273}, -\frac{264}{2273}, \frac{1563}{2273}, \frac{765}{2273}, -\frac{831}{2273}, -\frac{33}{2273}, \frac{996}{2273})$ $+\frac{42}{2273}\sqrt{5111}e^5 \otimes e_7$	{123458, 13679, 2467, 589}
941:64	$0, 0, 0, 0, 0, \frac{16}{273}\sqrt{3}e^{12}, \frac{2}{273}\sqrt{33}e^{34}, \frac{2}{273}\sqrt{87}e^{14} + \frac{2}{91}\sqrt{19}e^{23},$ $\frac{8}{273}\sqrt{15}e^{16} + \frac{4}{273}\sqrt{3}e^{35}$	$(-\frac{3}{91}, \frac{6}{91}, -\frac{1}{13}, \frac{2}{91}, \frac{1}{13}, \frac{3}{91}, -\frac{5}{91}, -\frac{1}{91}, 0)$ $+\frac{2}{273}\sqrt{327}e^4 \otimes e_9 + \frac{2}{273}\sqrt{417}e^1 \otimes e_7$	{13456, 478}
941:64	$0, 0, 0, 0, 0, \frac{6}{277}\sqrt{83}e^{12}, \frac{4}{277}\sqrt{3486}e^{34}, \frac{1}{277}\sqrt{42330}e^{14} + \frac{1}{277}\sqrt{54282}e^{23},$ $\frac{4}{277}\sqrt{8715}e^{16} + \frac{4}{277}\sqrt{6}e^{35}$	$(\frac{51}{277}, -\frac{73}{277}, \frac{139}{277}, \frac{15}{277}, -\frac{110}{277}, -\frac{22}{277}, \frac{154}{277}, \frac{66}{277}, \frac{29}{277})$ $+\frac{1}{277}\sqrt{117030}e^3 \otimes e_5$	{13468, 156, 378, 457}
941:64	$0, 0, 0, 0, 0, \frac{2}{1821}\sqrt{195}e^{12}, \frac{2}{1821}\sqrt{427}e^{34}, \frac{1}{607}\sqrt{170}e^{14} + \frac{1}{1821}\sqrt{1318}e^{23},$ $\frac{4}{607}\sqrt{7}e^{16} + \frac{1}{1821}\sqrt{1270}e^{35}$	$(-\frac{17}{1821}, \frac{5}{607}, -\frac{3}{607}, \frac{23}{1821}, -\frac{10}{1821}, -\frac{2}{1821}, \frac{14}{1821}, \frac{2}{607}, -\frac{19}{1821})$ $+\frac{1}{1821}\sqrt{1514}e^3 \otimes e_5 + \frac{4}{1821}\sqrt{119}e^2 \otimes e_7$	{378, 457}
941:64	$0, 0, 0, 0, 0, \frac{12}{337}\sqrt{35}e^{12}, \frac{20}{337}\sqrt{14}e^{34}, \frac{36}{337}\sqrt{14}e^{14} + \frac{4}{337}\sqrt{21}e^{23},$ $\frac{4}{337}\sqrt{357}e^{16} + \frac{28}{337}\sqrt{21}e^{35}$	$(-\frac{42}{337}, \frac{72}{337}, -\frac{70}{337}, \frac{44}{337}, \frac{58}{337}, \frac{30}{337}, -\frac{26}{337}, \frac{2}{337}, -\frac{12}{337})$ $+\frac{4}{337}\sqrt{1267}e^5 \otimes e_8 + \frac{8}{337}\sqrt{231}e^4 \otimes e_9$	{123689, 13457, 2579, 468}
941:64	$0, 0, 0, 0, 0, \frac{12}{337}\sqrt{35}e^{12}, \frac{20}{337}\sqrt{14}e^{34}, \frac{36}{337}\sqrt{14}e^{14} + \frac{4}{337}\sqrt{21}e^{23},$ $\frac{4}{337}\sqrt{357}e^{16} + \frac{28}{337}\sqrt{21}e^{35}$	$(-\frac{42}{337}, \frac{72}{337}, -\frac{70}{337}, \frac{44}{337}, \frac{58}{337}, \frac{30}{337}, \frac{26}{337}, \frac{2}{337}, -\frac{12}{337})$ $-\frac{4}{337}\sqrt{1267}e^5 \otimes e_8 + \frac{8}{337}\sqrt{231}e^4 \otimes e_9$	{123689, 13457, 2579, 468}
941:64	$0, 0, 0, 0, 0, \frac{6}{259}e^{12}, \frac{3}{259}\sqrt{917}e^{34}, \frac{3}{259}\sqrt{574}e^{14} + \frac{3}{259}\sqrt{826}e^{23},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{3}{37}\sqrt{23}e^{35}$	$(-\frac{6}{37}, \frac{69}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{48}{259}, \frac{27}{259}, -\frac{15}{259}, \frac{6}{259}, -\frac{15}{259})$ $-\frac{3}{259}\sqrt{1463}e^5 \otimes e_7 + \frac{9}{259}\sqrt{203}e^4 \otimes e_9$	{123789, 13456, 2569, 478}
941:64	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{917}e^{34}, \frac{3}{259}\sqrt{574}e^{14} + \frac{3}{259}\sqrt{826}e^{23},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{3}{37}\sqrt{23}e^{35}$	$(-\frac{6}{37}, \frac{69}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{48}{259}, \frac{27}{259}, -\frac{15}{259}, \frac{6}{259}, -\frac{15}{259})$ $+\frac{3}{259}\sqrt{1463}e^5 \otimes e_7 + \frac{9}{259}\sqrt{203}e^4 \otimes e_9$	{123789, 13456, 2569, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:64	$0, 0, 0, 0, 0, \frac{3}{293}\sqrt{3562}e^{12}, \frac{3}{293}\sqrt{4110}e^{34}, \frac{2}{293}\sqrt{685}e^{14} + \frac{4}{293}\sqrt{822}e^{23},$ $\frac{1}{293}\sqrt{32606}e^{16} + \frac{6}{293}\sqrt{411}e^{35}$	$(\frac{67}{293}, -\frac{25}{293}, \frac{11}{293}, -\frac{81}{293}, \frac{98}{293}, \frac{42}{293}, -\frac{70}{293}, -\frac{14}{293}, \frac{109}{293})$ $+ \frac{1}{293}\sqrt{68226}e^1 \otimes e_7$	{1234589, 129, 2356789, 24679}
941:64	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{3}{10}\sqrt{2}e^{34}, \frac{1}{10}\sqrt{6}e^{14} + \frac{1}{10}\sqrt{2}e^{23},$ $\frac{1}{10}\sqrt{14}e^{16} + \frac{1}{10}\sqrt{10}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, 0, 0, 0, \frac{1}{5})$ $- \frac{1}{10}\sqrt{14}e^3 \otimes e_5 + \frac{1}{10}\sqrt{22}e^1 \otimes e_7$	{13468, 156, 378, 457}
941:64	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{3}{10}\sqrt{2}e^{34}, \frac{1}{10}\sqrt{6}e^{14} + \frac{1}{10}\sqrt{2}e^{23},$ $\frac{1}{10}\sqrt{14}e^{16} + \frac{1}{10}\sqrt{10}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, 0, 0, 0, 0, \frac{1}{5})$ $+ \frac{1}{10}\sqrt{14}e^3 \otimes e_5 + \frac{1}{10}\sqrt{22}e^1 \otimes e_7$	{13468, 156, 378, 457}
941:64	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{3}e^{12}, \frac{8}{73}\sqrt{10}e^{34}, \frac{8}{73}\sqrt{15}e^{14} + \frac{8}{73}\sqrt{3}e^{23},$ $\frac{24}{73}e^{16} + \frac{8}{73}\sqrt{6}e^{35}$	$(\frac{12}{73}, 0, -\frac{4}{73}, -\frac{16}{73}, \frac{28}{73}, \frac{12}{73}, -\frac{20}{73}, -\frac{4}{73}, \frac{24}{73})$ $- \frac{40}{73}e^5 \otimes e_8 + \frac{8}{73}\sqrt{39}e^1 \otimes e_7$	{13456, 168, 357, 478}
941:64	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{3}e^{12}, \frac{8}{73}\sqrt{10}e^{34}, \frac{8}{73}\sqrt{15}e^{14} + \frac{8}{73}\sqrt{3}e^{23},$ $\frac{24}{73}e^{16} + \frac{8}{73}\sqrt{6}e^{35}$	$(\frac{12}{73}, 0, -\frac{4}{73}, -\frac{16}{73}, \frac{28}{73}, \frac{12}{73}, -\frac{20}{73}, -\frac{4}{73}, \frac{24}{73})$ $+ \frac{40}{73}e^5 \otimes e_8 + \frac{8}{73}\sqrt{39}e^1 \otimes e_7$	{13456, 168, 357, 478}
941:64	$0, 0, 0, 0, 0, \frac{66}{547}e^{12}, \frac{44}{547}\sqrt{42}e^{34}, \frac{44}{547}e^{14} + \frac{88}{547}\sqrt{2}e^{23},$ $\frac{22}{547}\sqrt{105}e^{16} + \frac{22}{547}\sqrt{7}e^{35}$	$(-\frac{55}{547}, \frac{22}{547}, \frac{77}{547}, \frac{154}{547}, -\frac{165}{547}, -\frac{33}{547}, \frac{231}{547}, \frac{99}{547}, -\frac{88}{547})$ $+ \frac{22}{547}\sqrt{221}e^3 \otimes e_5 + \frac{22}{547}\sqrt{263}e^4 \otimes e_9$	{12589, 23679}
941:64	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{105}e^{12}, \frac{1}{103}\sqrt{2730}e^{34}, \frac{5}{103}\sqrt{42}e^{14} + \frac{4}{103}\sqrt{35}e^{23},$ $\frac{4}{103}\sqrt{105}e^{16} + \frac{7}{103}\sqrt{10}e^{35}$	$(-\frac{21}{103}, \frac{33}{103}, -\frac{28}{103}, \frac{26}{103}, \frac{19}{103}, \frac{12}{103}, -\frac{2}{103}, \frac{5}{103}, -\frac{9}{103})$ $+ \frac{1}{103}\sqrt{3710}e^2 \otimes e_7 + \frac{1}{103}\sqrt{665}e^4 \otimes e_9$	{2689, 457}
941:64	$0, 0, 0, 0, 0, \frac{3}{566}\sqrt{17430}e^{14} + \frac{3}{566}\sqrt{11690}e^{23}, \frac{18}{566}\sqrt{105}e^{12}, \frac{15}{566}\sqrt{770}e^{34},$ $\frac{3}{566}\sqrt{11795}e^{16} + \frac{3}{566}\sqrt{12390}e^{35}$	$(-\frac{28}{283}, \frac{183}{566}, -\frac{371}{1132}, \frac{107}{1132}, \frac{513}{1132}, \frac{127}{566}, -\frac{66}{283}, -\frac{5}{1132}, \frac{71}{566})$ $+ \frac{3}{566}\sqrt{695}e^2 \otimes e_7$	{234569, 2689, 378, 457}
941:65	$0, 0, 0, 0, 0, \frac{86}{2989}\sqrt{115}e^{14} + \frac{43}{2989}\sqrt{1066}e^{35}, \frac{86}{2989}\sqrt{305}e^{12}, \frac{86}{2989}\sqrt{37}e^{13},$ $\frac{86}{2989}\sqrt{2}e^{16} + \frac{43}{2989}\sqrt{462}e^{34}$	$(-\frac{387}{2989}, \frac{1376}{2989}, \frac{688}{2989}, -\frac{86}{2989}, -\frac{1161}{2989}, \frac{989}{2989}, \frac{43}{2989}, -\frac{473}{2989}, \frac{86}{2989})$ $+ \frac{129}{2989}\sqrt{358}e^2 \otimes e_8 + \frac{43}{2989}\sqrt{2006}e^3 \otimes e_5$	{136789, 45789}
941:65	$0, 0, 0, 0, 0, \frac{9}{17}e^{12}, \frac{3}{17}\sqrt{11}e^{13}, \frac{3}{17}\sqrt{11}e^{14} + \frac{12}{17}e^{35},$ $\frac{12}{17}e^{16} + \frac{6}{17}\sqrt{2}e^{34}$	$(\frac{1}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{4}{17}, \frac{9}{17}, -\frac{1}{17}, -\frac{3}{17}, \frac{5}{17}, 0)$ $+ \frac{3}{17}\sqrt{29}e^5 \otimes e_9$	{23689, 24679, 345, 578}
941:65	$0, 0, 0, 0, 0, \frac{54}{2311}\sqrt{83}e^{14} + \frac{9}{2311}\sqrt{4386}e^{35}, \frac{18}{2311}\sqrt{717}e^{12}, \frac{18}{2311}\sqrt{1497}e^{13},$ $\frac{9}{2311}\sqrt{4386}e^{16} + \frac{27}{2311}\sqrt{506}e^{34}$	$(-\frac{225}{2311}, \frac{540}{2311}, \frac{36}{2311}, \frac{54}{2311}, -\frac{207}{2311}, \frac{315}{2311}, -\frac{189}{2311}, -\frac{171}{2311}, \frac{90}{2311})$ $+ \frac{180}{2311}\sqrt{15}e^3 \otimes e_5 + \frac{9}{2311}\sqrt{7494}e^4 \otimes e_7$	{134, 2379}
941:65	$0, 0, 0, 0, 0, \frac{3}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{255}e^{13}, \frac{3}{119}\sqrt{170}e^{14} + \frac{3}{119}\sqrt{102}e^{35},$ $\frac{6}{119}\sqrt{34}e^{16} + \frac{2}{119}\sqrt{561}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{2}{7}, 0)$ $+ \frac{10}{119}\sqrt{51}e^5 \otimes e_7 + \frac{1}{119}\sqrt{6018}e^1 \otimes e_2$	{13459, 2458}
941:65	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{1582}e^{12}, \frac{1}{109}\sqrt{3962}e^{13}, \frac{2}{109}\sqrt{406}e^{14} + \frac{1}{109}\sqrt{1778}e^{35},$ $\frac{2}{109}\sqrt{14}e^{16} + \frac{14}{109}\sqrt{3}e^{34}$	$(\frac{21}{109}, -\frac{28}{109}, \frac{28}{109}, -\frac{14}{109}, -\frac{21}{109}, -\frac{7}{109}, \frac{49}{109}, \frac{7}{109}, \frac{14}{109})$ $+ \frac{2}{109}\sqrt{1169}e^3 \otimes e_5 + \frac{3}{109}\sqrt{574}e^1 \otimes e_2$	{134, 2379}
941:65	$0, 0, 0, 0, 0, \frac{74}{2837}\sqrt{417}e^{14} + \frac{37}{2837}\sqrt{46}e^{35}, \frac{222}{2837}\sqrt{7}e^{12}, \frac{74}{2837}\sqrt{123}e^{13},$ $\frac{37}{2837}\sqrt{82}e^{16} + \frac{37}{2837}\sqrt{618}e^{34}$	$(-\frac{555}{2837}, \frac{1332}{2837}, -\frac{296}{2837}, \frac{518}{2837}, \frac{259}{2837}, \frac{777}{2837}, -\frac{851}{2837}, -\frac{37}{2837}, \frac{222}{2837})$ $+ \frac{1036}{2837}\sqrt{3}e^2 \otimes e_8 + \frac{37}{2837}\sqrt{2758}e^4 \otimes e_7$	{12345, 4589}
941:65	$0, 0, 0, 0, 0, \frac{6}{2357}\sqrt{39059}e^{14} + \frac{12}{2357}\sqrt{25715}e^{35}, \frac{6}{2357}\sqrt{1946}e^{12}, \frac{6}{2357}\sqrt{98134}e^{13},$ $\frac{6}{2357}\sqrt{11398}e^{16} + \frac{72}{2357}\sqrt{278}e^{34}$	$(-\frac{110}{2357}, \frac{397}{2357}, -\frac{775}{2357}, \frac{952}{2357}, \frac{1617}{2357}, \frac{287}{2357}, -\frac{885}{2357}, \frac{842}{2357}, \frac{177}{2357})$ $+ \frac{6}{2357}\sqrt{274386}e^5 \otimes e_7$	{12356, 179, 2378, 5689}
941:65	$0, 0, 0, 0, 0, \frac{12}{179}\sqrt{127}e^{14} + \frac{1}{179}\sqrt{14986}e^{35}, \frac{2}{179}\sqrt{2667}e^{12}, \frac{12}{179}\sqrt{127}e^{13},$ $\frac{1}{179}\sqrt{14986}e^{16} + \frac{1}{179}\sqrt{12954}e^{34}$	$(-\frac{25}{179}, \frac{60}{179}, -\frac{46}{179}, \frac{56}{179}, \frac{77}{179}, \frac{35}{179}, -\frac{71}{179}, \frac{31}{179}, \frac{10}{179})$ $+ \frac{1}{179}\sqrt{40894}e^4 \otimes e_7$	{134, 178, 2379, 2489}
941:65	$0, 0, 0, 0, 0, \frac{34}{1469}\sqrt{291}e^{14} + \frac{17}{1469}\sqrt{786}e^{35}, \frac{34}{1469}\sqrt{183}e^{12}, \frac{34}{1469}\sqrt{291}e^{13},$ $\frac{17}{1469}\sqrt{362}e^{16} + \frac{153}{1469}\sqrt{2}e^{34}$	$(\frac{85}{1469}, -\frac{204}{1469}, -\frac{204}{1469}, \frac{170}{1469}, \frac{459}{1469}, -\frac{119}{1469}, -\frac{119}{1469}, \frac{255}{1469}, -\frac{34}{1469})$ $- \frac{17}{1469}\sqrt{1534}e^4 \otimes e_7 + \frac{34}{1469}\sqrt{318}e^1 \otimes e_2$	{134, 178, 2379, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:65	$0, 0, 0, 0, 0, \frac{34}{1469}\sqrt{183}e^{12}, \frac{34}{1469}\sqrt{291}e^{13},$ $\frac{34}{1469}\sqrt{291}e^{14} + \frac{17}{1469}\sqrt{786}e^{35}, \frac{17}{1469}\sqrt{362}e^{16} + \frac{153}{1469}\sqrt{2}e^{34}$	$(\frac{85}{1469}, -\frac{204}{1469}, -\frac{204}{1469}, \frac{170}{1469}, \frac{459}{1469}, -\frac{119}{1469}, -\frac{119}{1469}, \frac{255}{1469}, -\frac{34}{1469})$ $+ \frac{17}{1469}\sqrt{1534}e^4 \otimes e_7 + \frac{34}{1469}\sqrt{318}e^1 \otimes e_2$	{134, 178, 2379, 2489}
941:65	$0, 0, 0, 0, 0, \frac{1}{117}\sqrt{2310}e^{12}, \frac{7}{117}\sqrt{6}e^{13}, \frac{2}{117}\sqrt{119}e^{14} + \frac{10}{117}\sqrt{42}e^{35},$ $\frac{28}{117}e^{16} + \frac{2}{117}\sqrt{329}e^{34}$	$(-\frac{7}{39}, \frac{49}{117}, -\frac{14}{117}, \frac{7}{39}, \frac{14}{117}, \frac{28}{117}, -\frac{35}{117}, 0, \frac{7}{117})$ $+ \frac{1}{117}\sqrt{4354}e^5 \otimes e_7 + \frac{1}{117}\sqrt{5894}e^2 \otimes e_8$	{13678, 2679}
941:65	$0, 0, 0, 0, 0, \frac{6}{2453}\sqrt{93730}e^{12}, \frac{6}{2453}\sqrt{67259}e^{13},$ $\frac{12}{2453}\sqrt{9682}e^{14} + \frac{24}{2453}\sqrt{6283}e^{35}, \frac{6}{2453}\sqrt{29870}e^{16} + \frac{18}{2453}\sqrt{2266}e^{34}$	$(-\frac{48}{223}, \frac{1543}{2453}, \frac{270}{2453}, \frac{217}{2453}, -\frac{581}{2453}, \frac{1015}{2453}, -\frac{258}{2453}, -\frac{311}{2453}, \frac{487}{2453})$ $+ \frac{42}{2453}\sqrt{4326}e^2 \otimes e_8$	{1234579, 13678, 2679, 4578}
941:65	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{2}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{4}\sqrt{2}e^{14} + \frac{1}{2}e^{35},$ $\frac{1}{2}e^{16} + \frac{1}{2}e^{34}$	$(0, 0, -\frac{1}{4}, \frac{1}{4}, \frac{1}{2}, 0, -\frac{1}{4}, \frac{1}{4}, 0)$ $+ \frac{1}{2}e^4 \otimes e_7 + \frac{1}{4}\sqrt{10}e^5 \otimes e_9$	{345, 578}
941:65	$0, 0, 0, 0, 0, \frac{5}{483}\sqrt{897}e^{12}, \frac{5}{483}\sqrt{915}e^{13}, \frac{5}{483}\sqrt{339}e^{14} + \frac{60}{161}e^{35},$ $\frac{20}{483}\sqrt{57}e^{16} + \frac{10}{483}\sqrt{66}e^{34}$	$(-\frac{15}{161}, \frac{30}{161}, -\frac{20}{161}, \frac{20}{161}, \frac{15}{161}, \frac{15}{161}, -\frac{5}{23}, \frac{5}{161}, 0)$ $+ \frac{40}{161}\sqrt{2}e^2 \otimes e_8 + \frac{5}{483}\sqrt{1461}e^5 \otimes e_9$	{24679, 578}
941:65	$0, 0, 0, 0, 0, \frac{4}{751}\sqrt{4147}e^{12}, \frac{4}{751}\sqrt{26390}e^{13},$ $\frac{2}{751}\sqrt{16211}e^{14} + \frac{26}{751}\sqrt{290}e^{35}, \frac{26}{751}\sqrt{290}e^{16} + \frac{2}{751}\sqrt{97266}e^{34}$	$(\frac{42}{751}, \frac{149}{751}, \frac{343}{751}, -\frac{110}{751}, -\frac{411}{751}, \frac{191}{751}, \frac{385}{751}, -\frac{68}{751}, \frac{233}{751})$ $+ \frac{2}{751}\sqrt{243542}e^3 \otimes e_5$	{12369, 157, 2459, 3467}
941:65	$0, 0, 0, 0, 0, \frac{46}{799}\sqrt{190}e^{12}, \frac{4}{799}\sqrt{24035}e^{13},$ $\frac{2}{799}\sqrt{48507}e^{14} + \frac{4}{799}\sqrt{874}e^{35}, \frac{4}{799}\sqrt{874}e^{16} + \frac{4}{799}\sqrt{437}e^{34}$	$(-\frac{210}{799}, \frac{569}{799}, -\frac{95}{799}, \frac{244}{799}, \frac{129}{799}, \frac{359}{799}, -\frac{305}{799}, \frac{2}{47}, \frac{149}{799})$ $+ \frac{2}{799}\sqrt{289294}e^2 \otimes e_7$	{12359, 167, 2469, 3457}
941:65	$0, 0, 0, 0, 0, \frac{57}{572}\sqrt{30}e^{12}, \frac{3}{572}\sqrt{20805}e^{13},$ $\frac{3}{572}\sqrt{20805}e^{14} + \frac{3}{286}\sqrt{1653}e^{35}, \frac{3}{286}\sqrt{3021}e^{16} + \frac{9}{572}\sqrt{1406}e^{34}$	$(\frac{49}{143}, -\frac{317}{572}, \frac{133}{1144}, \frac{17}{1144}, \frac{69}{286}, -\frac{11}{52}, \frac{525}{1144}, \frac{409}{1144}, \frac{75}{572})$ $+ \frac{9}{286}\sqrt{1558}e^1 \otimes e_2$	{1349, 1789, 237, 248}
941:65	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{5}e^{13}, \frac{1}{7}\sqrt{5}e^{14} + \frac{2}{7}\sqrt{3}e^{35},$ $\frac{4}{7}e^{16} + \frac{2}{7}e^{34}$	$(\frac{1}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{2}{7}, 0)$ $+ \frac{2}{7}\sqrt{3}e^1 \otimes e_2 + \frac{5}{7}e^5 \otimes e_9$	{23689, 24679}
941:65	$0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{7}{121}\sqrt{35}e^{13}, \frac{7}{121}\sqrt{67}e^{14} + \frac{28}{121}\sqrt{5}e^{35},$ $\frac{28}{121}\sqrt{5}e^{16} + \frac{14}{121}\sqrt{10}e^{34}$	$(-\frac{7}{121}, \frac{14}{121}, -\frac{28}{121}, \frac{28}{121}, \frac{49}{121}, \frac{7}{121}, -\frac{35}{121}, \frac{21}{121}, 0)$ $+ \frac{56}{121}e^2 \otimes e_7 + \frac{7}{121}\sqrt{149}e^5 \otimes e_9$	{23689, 578}
941:66	$0, 0, 0, 0, 0, \frac{3}{185}\sqrt{935}e^{12}, \frac{51}{185}\sqrt{3}e^{13}, \frac{51}{185}\sqrt{3}e^{14} + \frac{3}{185}\sqrt{2210}e^{35},$ $\frac{12}{185}\sqrt{102}e^{26} + \frac{3}{185}\sqrt{1394}e^{34}$	$(\frac{11}{37}, -\frac{44}{185}, -\frac{49}{185}, \frac{16}{185}, \frac{24}{185}, \frac{11}{185}, \frac{6}{185}, \frac{71}{185}, -\frac{33}{185})$ $+ \frac{3}{185}\sqrt{5219}e^5 \otimes e_9$	{23456, 25678, 345, 578}
941:66	$0, 0, 0, 0, 0, \frac{4}{2849}\sqrt{20622}e^{12}, \frac{6}{2849}\sqrt{149755}e^{13},$ $\frac{8}{2849}\sqrt{25041}e^{14} + \frac{2}{2849}\sqrt{1306551}e^{35}, \frac{2}{2849}\sqrt{456630}e^{26} + \frac{2}{2849}\sqrt{670215}e^{34}$	$(-\frac{16}{407}, \frac{221}{2849}, -\frac{872}{2849}, \frac{1202}{2849}, \frac{1962}{2849}, \frac{109}{2849}, -\frac{984}{2849}, \frac{1090}{2849}, \frac{30}{259})$ $+ \frac{2}{2849}\sqrt{3496902}e^5 \otimes e_7$	{12356, 135, 2589, 5689}
941:66	$0, 0, 0, 0, 0, \frac{23}{1717}\sqrt{697}e^{12}, \frac{23}{1717}\sqrt{365}e^{13},$ $\frac{23}{1717}\sqrt{447}e^{14} + \frac{23}{1717}\sqrt{614}e^{35}, \frac{46}{1717}\sqrt{282}e^{26} + \frac{115}{1717}\sqrt{2}e^{34}$	$(-\frac{115}{1717}, \frac{92}{1717}, -\frac{322}{1717}, \frac{23}{101}, \frac{598}{1717}, -\frac{23}{1717}, -\frac{437}{1717}, \frac{276}{1717}, \frac{69}{1717})$ $+ \frac{115}{1717}\sqrt{57}e^5 \otimes e_9 + \frac{46}{1717}\sqrt{406}e^2 \otimes e_7$	{2568, 3457}
941:66	$0, 0, 0, 0, 0, \frac{1}{175}\sqrt{2590}e^{12}, \frac{1}{175}\sqrt{10}e^{13}, \frac{4}{175}\sqrt{105}e^{14} + \frac{2}{175}\sqrt{1155}e^{35},$ $\frac{4}{25}\sqrt{5}e^{26} + \frac{4}{35}\sqrt{7}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{175}\sqrt{3290}e^5 \otimes e_7 + \frac{1}{175}\sqrt{7630}e^2 \otimes e_8$	{15689, 2356}
941:66	$0, 0, 0, 0, 0, \frac{7}{1937}\sqrt{967}e^{12}, \frac{7}{1937}\sqrt{731}e^{13},$ $\frac{7}{1937}\sqrt{341}e^{14} + \frac{7}{1937}\sqrt{1506}e^{35}, \frac{28}{1937}\sqrt{86}e^{26} + \frac{7}{1937}\sqrt{254}e^{34}$	$(-\frac{105}{1937}, \frac{84}{1937}, -\frac{77}{1937}, \frac{140}{1937}, \frac{112}{1937}, -\frac{21}{1937}, -\frac{14}{1937}, \frac{35}{1937}, \frac{63}{1937})$ $+ \frac{28}{1937}\sqrt{134}e^2 \otimes e_8 + \frac{7}{1937}\sqrt{1363}e^5 \otimes e_9$	{2356, 4578}
941:66	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{22}e^{12}, \frac{2}{31}\sqrt{110}e^{13}, \frac{2}{31}\sqrt{33}e^{14} + \frac{2}{31}\sqrt{11}e^{35},$ $\frac{4}{31}\sqrt{33}e^{26} + \frac{2}{31}\sqrt{55}e^{34}$	$(-\frac{10}{31}, \frac{11}{31}, -\frac{1}{31}, \frac{13}{31}, \frac{4}{31}, \frac{1}{31}, -\frac{11}{31}, \frac{3}{31}, \frac{12}{31})$ $+ \frac{2}{31}\sqrt{286}e^2 \otimes e_7$	{123489, 1679, 246, 378}
941:66	$0, 0, 0, 0, 0, \frac{2}{2753}\sqrt{49402}e^{12}, \frac{26}{2753}\sqrt{7265}e^{13},$ $\frac{16}{2753}\sqrt{7265}e^{14} + \frac{2}{2753}\sqrt{489661}e^{35}, \frac{18}{2753}\sqrt{2906}e^{26} + \frac{6}{2753}\sqrt{146753}e^{34}$	$(-\frac{68}{2753}, \frac{619}{2753}, \frac{1336}{2753}, -\frac{166}{2753}, -\frac{1570}{2753}, \frac{551}{2753}, \frac{1268}{2753}, -\frac{234}{2753}, \frac{1170}{2753})$ $+ \frac{2}{2753}\sqrt{3385490}e^3 \otimes e_5$	{12369, 139, 2347, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:66	$0, 0, 0, 0, 0, \frac{54}{2141}\sqrt{385}e^{12}, \frac{189}{2141}\sqrt{22}e^{13},$ $\frac{297}{2141}\sqrt{10}e^{14} + \frac{162}{2141}\sqrt{55}e^{35}, \frac{54}{2141}\sqrt{506}e^{26} + \frac{54}{2141}\sqrt{330}e^{34}$	$(-\frac{513}{2141}, \frac{594}{2141}, \frac{297}{2141}, \frac{378}{2141}, -\frac{432}{2141}, \frac{81}{2141}, -\frac{216}{2141}, -\frac{135}{2141}, \frac{675}{2141})$ $+ \frac{27}{2141}\sqrt{4106}e^2 \otimes e_8 + \frac{27}{2141}\sqrt{470}e^3 \otimes e_5$	{1234579, 2356}
941:66	$0, 0, 0, 0, 0, \frac{68}{757}\sqrt{13}e^{12}, \frac{170}{757}\sqrt{5}e^{13}, \frac{102}{757}\sqrt{5}e^{14} + \frac{34}{757}\sqrt{19}e^{35},$ $\frac{119}{757}\sqrt{6}e^{26} + \frac{17}{757}\sqrt{62}e^{34}$	$(-\frac{187}{757}, \frac{221}{757}, \frac{119}{757}, \frac{136}{757}, -\frac{170}{757}, \frac{34}{757}, -\frac{68}{757}, -\frac{51}{757}, \frac{255}{757})$ $+ \frac{17}{757}\sqrt{570}e^3 \otimes e_5 + \frac{17}{757}\sqrt{790}e^2 \otimes e_7$	{1239, 347}
941:66	$0, 0, 0, 0, 0, \frac{4}{63}\sqrt{55}e^{12}, \frac{4}{63}\sqrt{33}e^{13}, \frac{2}{63}\sqrt{165}e^{14} + \frac{10}{63}\sqrt{11}e^{35},$ $\frac{2}{63}\sqrt{286}e^{26} + \frac{2}{63}\sqrt{165}e^{34}$	$(-\frac{2}{9}, \frac{17}{63}, \frac{11}{63}, \frac{1}{7}, -\frac{16}{63}, \frac{1}{21}, -\frac{1}{21}, -\frac{5}{63}, \frac{20}{63})$ $+ \frac{2}{21}\sqrt{66}e^2 \otimes e_8$	{1234579, 15689, 2356, 4578}
941:67	$0, 0, 0, 0, 0, \frac{7}{689}\sqrt{1430}e^{12}, \frac{77}{689}\sqrt{10}e^{13}, \frac{77}{689}\sqrt{10}e^{23} + \frac{7}{689}\sqrt{2530}e^{45},$ $\frac{7}{689}\sqrt{2530}e^{16} + \frac{7}{689}\sqrt{2090}e^{34}$	$(\frac{154}{689}, -\frac{161}{689}, \frac{70}{689}, \frac{77}{689}, -\frac{168}{689}, -\frac{7}{689}, \frac{224}{689}, -\frac{7}{53}, \frac{147}{689})$ $+ \frac{28}{689}\sqrt{355}e^1 \otimes e_8 + \frac{42}{689}\sqrt{5}e^4 \otimes e_5$	{25689, 3578}
941:67	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{2}e^{12}, \frac{1}{41}\sqrt{34}e^{13}, \frac{1}{41}\sqrt{34}e^{23} + \frac{2}{41}\sqrt{10}e^{45},$ $\frac{2}{41}\sqrt{10}e^{16} + \frac{2}{41}\sqrt{11}e^{34}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, \frac{5}{41}, -\frac{6}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{94}e^1 \otimes e_8 - \frac{3}{41}\sqrt{6}e^2 \otimes e_7$	{123459, 14567, 25689, 3578}
941:67	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{2}e^{12}, \frac{1}{41}\sqrt{34}e^{13}, \frac{1}{41}\sqrt{34}e^{23} + \frac{2}{41}\sqrt{10}e^{45},$ $\frac{2}{41}\sqrt{10}e^{16} + \frac{2}{41}\sqrt{11}e^{34}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, \frac{5}{41}, -\frac{6}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{94}e^1 \otimes e_8 + \frac{3}{41}\sqrt{6}e^2 \otimes e_7$	{123459, 14567, 25689, 3578}
941:67	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{7}{317}\sqrt{174}e^{13}, \frac{7}{317}\sqrt{2}e^{23} + \frac{7}{317}\sqrt{237}e^{45},$ $\frac{42}{317}\sqrt{3}e^{16} + \frac{7}{317}\sqrt{79}e^{34}$	$(\frac{28}{317}, -\frac{7}{317}, -\frac{14}{317}, \frac{63}{317}, -\frac{84}{317}, \frac{21}{317}, \frac{14}{317}, -\frac{21}{317}, \frac{49}{317})$ $+ \frac{35}{317}\sqrt{14}e^1 \otimes e_8 + \frac{7}{317}\sqrt{215}e^4 \otimes e_7$	{123459, 3578}
941:67	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{12566}e^{12}, \frac{1}{289}\sqrt{10918}e^{13},$ $\frac{1}{289}\sqrt{10918}e^{23} + \frac{2}{289}\sqrt{5665}e^{45}, \frac{2}{289}\sqrt{5665}e^{16} + \frac{2}{289}\sqrt{4841}e^{34}$	$(\frac{65}{289}, -\frac{70}{289}, \frac{32}{289}, \frac{28}{289}, -\frac{66}{289}, -\frac{5}{289}, \frac{97}{289}, -\frac{38}{289}, \frac{60}{289})$ $+ \frac{7}{289}\sqrt{1030}e^1 \otimes e_8$	{123459, 14567, 25689, 3578}
941:67	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{287}e^{12}, \frac{1}{33}\sqrt{205}e^{13}, \frac{1}{33}\sqrt{205}e^{23} + \frac{2}{33}\sqrt{41}e^{45},$ $\frac{2}{33}\sqrt{41}e^{16} + \frac{2}{33}\sqrt{287}e^{34}$	$(\frac{13}{66}, \frac{3}{22}, -\frac{7}{66}, \frac{7}{11}, -\frac{20}{33}, \frac{3}{3}, \frac{11}{11}, \frac{1}{33}, \frac{35}{66})$ $+ \frac{1}{33}\sqrt{2255}e^4 \otimes e_5$	{125, 135679, 2567, 359}
941:67	$0, 0, 0, 0, 0, \frac{1}{1001}\sqrt{1246}e^{12}, \frac{1}{143}\sqrt{94}e^{13}, \frac{5}{1001}\sqrt{14}e^{23} + \frac{4}{1001}\sqrt{371}e^{45},$ $\frac{2}{143}\sqrt{14}e^{16} + \frac{4}{1001}\sqrt{259}e^{34}$	$(\frac{1}{143}, -\frac{4}{143}, \frac{4}{143}, -\frac{6}{143}, \frac{6}{143}, -\frac{3}{143}, \frac{5}{143}, 0, -\frac{2}{143})$ $+ \frac{1}{1001}\sqrt{7490}e^1 \otimes e_8 + \frac{2}{1001}\sqrt{1330}e^5 \otimes e_7$	{123459, 25689}
941:67	$0, 0, 0, 0, 0, \frac{5}{99}\sqrt{66}e^{12}, \frac{1}{99}\sqrt{330}e^{13}, \frac{1}{99}\sqrt{330}e^{23} + \frac{1}{99}\sqrt{1870}e^{45},$ $\frac{1}{99}\sqrt{1870}e^{16} + \frac{1}{99}\sqrt{770}e^{34}$	$(-\frac{2}{9}, \frac{1}{3}, 0, -\frac{1}{9}, \frac{4}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, -\frac{1}{9})$ $+ \frac{2}{99}\sqrt{1045}e^2 \otimes e_7 + \frac{4}{99}\sqrt{330}e^5 \otimes e_9$	{1239, 24689}
941:67	$0, 0, 0, 0, 0, \frac{1}{279}\sqrt{28866}e^{12}, \frac{1}{93}\sqrt{3962}e^{13}, \frac{1}{93}\sqrt{3962}e^{23} + \frac{1}{279}\sqrt{2830}e^{45},$ $\frac{1}{279}\sqrt{2830}e^{16} + \frac{1}{279}\sqrt{16414}e^{34}$	$(-\frac{70}{279}, \frac{55}{93}, -\frac{16}{93}, \frac{73}{279}, \frac{44}{279}, \frac{95}{279}, -\frac{118}{279}, \frac{13}{31}, \frac{25}{279})$ $+ \frac{2}{279}\sqrt{32545}e^2 \otimes e_7$	{123459, 14567, 25689, 3578}
941:67	$0, 0, 0, 0, 0, \frac{45}{1369}\sqrt{30}e^{12}, \frac{5}{1369}\sqrt{910}e^{13},$ $\frac{5}{1369}\sqrt{910}e^{23} + \frac{5}{1369}\sqrt{4870}e^{45}, \frac{5}{1369}\sqrt{4870}e^{16} + \frac{5}{1369}\sqrt{1830}e^{34}$	$(\frac{90}{1369}, -\frac{5}{37}, \frac{150}{1369}, -\frac{155}{1369}, \frac{120}{1369}, -\frac{95}{1369}, \frac{240}{1369}, -\frac{35}{1369}, -\frac{5}{1369})$ $+ \frac{10}{1369}\sqrt{1145}e^5 \otimes e_9 + \frac{10}{1369}\sqrt{1905}e^1 \otimes e_8$	{14567, 3578}
941:67	$0, 0, 0, 0, 0, \frac{13}{1289}\sqrt{1810}e^{12}, \frac{13}{1289}\sqrt{1190}e^{13},$ $\frac{13}{1289}\sqrt{1190}e^{23} + \frac{13}{1289}\sqrt{470}e^{45}, \frac{13}{1289}\sqrt{470}e^{16} + \frac{39}{1289}\sqrt{190}e^{34}$	$(-\frac{104}{1289}, \frac{481}{1289}, -\frac{260}{1289}, \frac{533}{1289}, -\frac{312}{1289}, \frac{377}{1289}, -\frac{364}{1289}, \frac{221}{1289}, \frac{273}{1289})$ $+ \frac{26}{1289}\sqrt{1270}e^4 \otimes e_5 + \frac{52}{1289}\sqrt{395}e^2 \otimes e_7$	{1234, 14679}
941:67	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{4641}e^{12}, \frac{17}{142}\sqrt{14}e^{13}, \frac{17}{142}\sqrt{14}e^{23} + \frac{1}{142}\sqrt{10234}e^{45},$ $\frac{1}{142}\sqrt{10234}e^{16} + \frac{1}{71}\sqrt{1785}e^{34}$	$(-\frac{21}{142}, \frac{11}{71}, \frac{57}{284}, -\frac{97}{284}, \frac{99}{142}, \frac{1}{142}, \frac{15}{284}, \frac{101}{284}, -\frac{10}{71})$ $+ \frac{1}{142}\sqrt{27965}e^5 \otimes e_9$	{134567, 1568, 345, 578}
941:67	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574}e^{13}, \frac{3}{259}\sqrt{826}e^{23} + \frac{6}{259}\sqrt{301}e^{45},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{6}{259}\sqrt{210}e^{34}$	$(-\frac{6}{37}, \frac{69}{259}, -\frac{18}{259}, \frac{3}{259}, \frac{48}{259}, \frac{27}{259}, -\frac{60}{259}, \frac{51}{259}, -\frac{15}{259})$ $+ \frac{15}{259}\sqrt{70}e^4 \otimes e_7 + \frac{6}{259}\sqrt{385}e^5 \otimes e_9$	{13456, 15678}
941:67	$0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1515}e^{12}, \frac{2}{527}\sqrt{53126}e^{13}, \frac{202}{527}\sqrt{2}e^{23} + \frac{18}{527}\sqrt{606}e^{45},$ $\frac{4}{527}\sqrt{1515}e^{16} + \frac{202}{527}\sqrt{2}e^{34}$	$(-\frac{131}{527}, \frac{203}{527}, \frac{11}{527}, -\frac{70}{527}, \frac{284}{527}, \frac{72}{527}, -\frac{120}{527}, \frac{214}{527}, -\frac{59}{527})$ $+ \frac{2}{527}\sqrt{91910}e^5 \otimes e_7$	{12679, 1478, 234789, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:67	$0, 0, 0, 0, 0, \frac{7}{67}e^{12}, \frac{21}{67}\sqrt{6}e^{13}, \frac{7}{67}\sqrt{38}e^{23} + \frac{7}{67}\sqrt{47}e^{45},$ $\frac{7}{67}\sqrt{22}e^{16} + \frac{7}{67}\sqrt{31}e^{34}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{14}{67}, \frac{28}{67}, -\frac{14}{67}, \frac{21}{67}, -\frac{21}{67}, \frac{14}{67}, \frac{14}{67})$ $+\frac{7}{67}\sqrt{115}e^4 \otimes e_7$	{12348, 127, 379, 489}
941:68	$0, 0, 0, 0, 0, \frac{25}{233}\sqrt{22}e^{12}, \frac{25}{233}\sqrt{22}e^{13}, \frac{5}{233}\sqrt{330}e^{24} + \frac{5}{233}\sqrt{770}e^{35},$ $\frac{10}{233}\sqrt{165}e^{16} + \frac{10}{233}\sqrt{110}e^{34}$	$(-\frac{35}{233}, \frac{55}{233}, -\frac{35}{233}, \frac{20}{233}, \frac{110}{233}, \frac{20}{233}, -\frac{70}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{10}{233}\sqrt{115}e^2 \otimes e_7 + \frac{10}{233}\sqrt{390}e^5 \otimes e_9$	{134567, 578}
941:68	$0, 0, 0, 0, 0, \frac{46}{2831}\sqrt{78}e^{12}, \frac{23}{2831}\sqrt{2022}e^{13},$ $\frac{23}{2831}\sqrt{2238}e^{24} + \frac{161}{2831}\sqrt{2}e^{35}, \frac{414}{2831}\sqrt{2}e^{16} + \frac{23}{2831}\sqrt{642}e^{34}$	$(\frac{483}{2831}, -\frac{690}{2831}, -\frac{368}{2831}, \frac{644}{2831}, \frac{322}{2831}, -\frac{207}{2831}, \frac{115}{2831}, -\frac{46}{2831}, \frac{276}{2831})$ $+\frac{23}{2831}\sqrt{2338}e^4 \otimes e_7 + \frac{23}{2831}\sqrt{2778}e^1 \otimes e_8$	{1579, 23578}
941:68	$0, 0, 0, 0, 0, \frac{4}{2047}\sqrt{93765}e^{12}, \frac{4}{2047}\sqrt{163590}e^{13},$ $\frac{4}{2047}\sqrt{143241}e^{24} + \frac{4}{2047}\sqrt{108794}e^{35}, \frac{12}{2047}\sqrt{6783}e^{16} + \frac{4}{2047}\sqrt{45087}e^{34}$	$(\frac{126}{2047}, -\frac{180}{2047}, -\frac{559}{2047}, \frac{631}{2047}, \frac{1010}{2047}, -\frac{54}{2047}, -\frac{433}{2047}, \frac{451}{2047}, \frac{72}{2047})$ $+\frac{28}{2047}\sqrt{5035}e^4 \otimes e_7$	{13458, 157, 235789, 2459}
941:68	$0, 0, 0, 0, 0, \frac{16}{91}\sqrt{3}e^{12}, \frac{24}{91}\sqrt{2}e^{13}, \frac{8}{91}\sqrt{21}e^{24} + \frac{24}{91}\sqrt{2}e^{35},$ $\frac{40}{91}e^{16} + \frac{24}{91}\sqrt{2}e^{34}$	$(\frac{20}{91}, -\frac{3}{13}, \frac{10}{91}, \frac{9}{91}, -\frac{22}{91}, -\frac{1}{91}, \frac{30}{91}, -\frac{12}{91}, \frac{19}{91})$ $+\frac{24}{91}\sqrt{7}e^1 \otimes e_8 + \frac{32}{91}e^3 \otimes e_5$	{25689, 458}
941:68	$0, 0, 0, 0, 0, \frac{16}{2383}\sqrt{3335}e^{12}, \frac{8}{2383}\sqrt{10034}e^{13},$ $\frac{24}{2383}\sqrt{2117}e^{24} + \frac{8}{2383}\sqrt{20706}e^{35}, \frac{8}{2383}\sqrt{27057}e^{16} + \frac{8}{2383}\sqrt{22098}e^{34}$	$(\frac{644}{2383}, -\frac{753}{2383}, \frac{66}{2383}, \frac{469}{2383}, -\frac{350}{2383}, -\frac{109}{2383}, \frac{710}{2383}, -\frac{284}{2383}, \frac{535}{2383})$ $+\frac{8}{2383}\sqrt{58551}e^1 \otimes e_8$	{123459, 1356, 25689, 458}
941:68	$0, 0, 0, 0, 0, \frac{731}{5629}\sqrt{2}e^{12}, \frac{43}{5629}\sqrt{5198}e^{13},$ $\frac{43}{5629}\sqrt{3090}e^{24} + \frac{215}{5629}\sqrt{106}e^{35}, \frac{774}{5629}\sqrt{5}e^{16} + \frac{688}{5629}\sqrt{2}e^{34}$	$(-\frac{1075}{5629}, \frac{2021}{5629}, \frac{1247}{5629}, -\frac{1376}{5629}, -\frac{602}{5629}, \frac{946}{5629}, \frac{172}{5629}, \frac{645}{5629}, -\frac{129}{5629})$ $+\frac{1204}{5629}\sqrt{6}e^3 \otimes e_5 + \frac{86}{5629}\sqrt{1426}e^2 \otimes e_7$	{157, 2459}
941:68	$0, 0, 0, 0, 0, \frac{1}{6163}\sqrt{1382}e^{12}, \frac{4}{6163}\sqrt{230}e^{13}, \frac{30}{6163}\sqrt{5}e^{24} + \frac{8}{6163}\sqrt{15}e^{35},$ $\frac{2}{6163}\sqrt{615}e^{16} + \frac{2}{6163}\sqrt{879}e^{34}$	$(\frac{11}{6163}, -\frac{24}{6163}, -\frac{36}{6163}, \frac{34}{6163}, \frac{46}{6163}, -\frac{13}{6163}, -\frac{25}{6163}, \frac{10}{6163}, -\frac{2}{6163})$ $+\frac{1}{6163}\sqrt{4782}e^2 \otimes e_7 + \frac{2}{6163}\sqrt{1623}e^1 \otimes e_8$	{123459, 25689}
941:68	$0, 0, 0, 0, 0, \frac{8}{2231}\sqrt{10605}e^{12}, \frac{12}{2231}\sqrt{23735}e^{13},$ $\frac{4}{2231}\sqrt{25755}e^{24} + \frac{4}{2231}\sqrt{179679}e^{35}, \frac{4}{2231}\sqrt{303}e^{16} + \frac{52}{2231}\sqrt{606}e^{34}$	$(-\frac{196}{2231}, \frac{425}{2231}, -\frac{590}{2231}, \frac{623}{2231}, \frac{1638}{2231}, \frac{229}{2231}, -\frac{786}{2231}, \frac{1048}{2231}, \frac{33}{2231})$ $+\frac{4}{2231}\sqrt{563883}e^5 \otimes e_7$	{12467, 179, 2378, 346789}
941:68	$0, 0, 0, 0, 0, \frac{12}{6533}\sqrt{238}e^{12}, \frac{6}{6533}\sqrt{1829}e^{13},$ $\frac{18}{6533}\sqrt{123}e^{24} + \frac{3}{6533}\sqrt{4874}e^{35}, \frac{3}{6533}\sqrt{3398}e^{16} + \frac{3}{6533}\sqrt{3198}e^{34}$	$(\frac{105}{6533}, -\frac{150}{6533}, -\frac{27}{6533}, \frac{87}{6533}, -\frac{36}{6533}, -\frac{45}{6533}, \frac{78}{6533}, -\frac{63}{6533}, \frac{60}{6533})$ $+\frac{3}{6533}\sqrt{5266}e^3 \otimes e_5 + \frac{6}{6533}\sqrt{1870}e^4 \otimes e_7$	{157, 2459}
941:68	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{1}{16}\sqrt{14}e^{13}, \frac{1}{56}\sqrt{154}e^{24} + \frac{1}{112}\sqrt{910}e^{35},$ $\frac{1}{4}e^{16} + \frac{1}{14}\sqrt{14}e^{34}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $+\frac{1}{112}\sqrt{1834}e^1 \otimes e_8 + \frac{1}{112}\sqrt{994}e^5 \otimes e_7$	{123459, 1356, 25689, 458}
941:68	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{1}{16}\sqrt{14}e^{13}, \frac{1}{56}\sqrt{154}e^{24} + \frac{1}{112}\sqrt{910}e^{35},$ $\frac{1}{4}e^{16} + \frac{1}{14}\sqrt{14}e^{34}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $+\frac{1}{112}\sqrt{1834}e^1 \otimes e_8 - \frac{1}{112}\sqrt{994}e^5 \otimes e_7$	{123459, 1356, 25689, 458}
941:68	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{3417}e^{12}, \frac{3}{133}\sqrt{1541}e^{13}, \frac{1}{133}\sqrt{1407}e^{24} + \frac{6}{133}\sqrt{201}e^{35},$ $\frac{1}{133}\sqrt{6767}e^{16} + \frac{3}{133}\sqrt{1273}e^{34}$	$(\frac{5}{133}, \frac{15}{76}, \frac{131}{266}, -\frac{117}{532}, -\frac{137}{266}, \frac{125}{532}, \frac{141}{266}, -\frac{3}{133}, \frac{145}{532})$ $+\frac{1}{133}\sqrt{30619}e^3 \otimes e_5$	{1245679, 157, 2459, 56}
941:68	$0, 0, 0, 0, 0, \frac{114}{4469}\sqrt{59}e^{12}, \frac{19}{4469}\sqrt{1114}e^{13},$ $\frac{57}{4469}\sqrt{6}e^{24} + \frac{19}{4469}\sqrt{3486}e^{35}, \frac{76}{4469}\sqrt{219}e^{16} + \frac{38}{4469}\sqrt{115}e^{34}$	$(\frac{399}{4469}, -\frac{627}{4469}, -\frac{494}{4469}, \frac{665}{4469}, \frac{532}{4469}, -\frac{228}{4469}, -\frac{95}{4469}, \frac{38}{4469}, \frac{171}{4469})$ $+\frac{133}{4469}\sqrt{74}e^5 \otimes e_9 + \frac{38}{4469}\sqrt{1097}e^1 \otimes e_8$	{13567, 4578}
941:68	$0, 0, 0, 0, 0, \frac{1}{369}\sqrt{6270}e^{12}, \frac{19}{123}\sqrt{30}e^{13}, \frac{5}{123}\sqrt{418}e^{24} + \frac{1}{369}\sqrt{41610}e^{35},$ $\frac{2}{123}\sqrt{285}e^{16} + \frac{8}{369}\sqrt{570}e^{34}$	$(-\frac{37}{123}, \frac{193}{369}, \frac{19}{369}, -\frac{16}{123}, \frac{14}{41}, \frac{2}{9}, -\frac{92}{369}, \frac{145}{369}, -\frac{29}{369})$ $+\frac{2}{369}\sqrt{45030}e^2 \otimes e_7$	{12358, 15679, 2456, 345789}
941:68	$0, 0, 0, 0, 0, \frac{3}{566}\sqrt{11795}e^{12}, \frac{3}{566}\sqrt{17430}e^{13},$ $\frac{3}{566}\sqrt{12390}e^{24} + \frac{15}{566}\sqrt{770}e^{35}, \frac{18}{283}\sqrt{105}e^{16} + \frac{3}{566}\sqrt{11690}e^{34}$	$(-\frac{28}{283}, \frac{44}{283}, -\frac{227}{1132}, \frac{179}{1132}, \frac{291}{566}, \frac{16}{283}, -\frac{339}{1132}, \frac{355}{1132}, -\frac{12}{283})$ $+\frac{21}{566}\sqrt{695}e^5 \otimes e_9$	{134567, 1568, 345, 578}
941:69	$0, 0, 0, 0, 0, \frac{4}{81}\sqrt{7}e^{12}, \frac{4}{27}e^{13}, \frac{2}{567}\sqrt{406}e^{23} + \frac{4}{567}\sqrt{462}e^{45},$ $\frac{2}{81}\sqrt{13}e^{26} + \frac{2}{567}\sqrt{1169}e^{34}$	$(\frac{2}{81}, -\frac{1}{27}, \frac{1}{27}, -\frac{7}{81}, \frac{7}{81}, -\frac{1}{81}, \frac{5}{81}, 0, -\frac{4}{81})$ $+\frac{2}{567}\sqrt{1778}e^1 \otimes e_8 + \frac{2}{567}\sqrt{1855}e^5 \otimes e_7$	{1279, 134569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:69	$0, 0, 0, 0, 0, \frac{56}{585}\sqrt{10}e^{12}, \frac{8}{585}\sqrt{565}e^{13}, \frac{16}{195}\sqrt{10}e^{23} + \frac{8}{585}\sqrt{705}e^{45},$ $\frac{8}{585}\sqrt{1145}e^{26} + \frac{8}{117}\sqrt{6}e^{34}$	$(-\frac{28}{117}, \frac{16}{117}, \frac{4}{39}, -\frac{8}{117}, \frac{4}{13}, -\frac{4}{39}, -\frac{16}{117}, \frac{28}{117}, \frac{4}{117})$ $+ \frac{16}{585}\sqrt{330}e^2 \otimes e_7 + \frac{40}{117}\sqrt{2}e^5 \otimes e_9$	{123489, 2456}
941:69	$0, 0, 0, 0, 0, \frac{72}{535}\sqrt{15}e^{12}, \frac{12}{535}\sqrt{865}e^{13}, \frac{12}{535}\sqrt{190}e^{23} + \frac{12}{535}\sqrt{1045}e^{45},$ $\frac{12}{535}\sqrt{305}e^{26} + \frac{12}{107}\sqrt{26}e^{34}$	$(\frac{254}{535}, -\frac{116}{535}, \frac{2}{107}, \frac{12}{535}, -\frac{118}{535}, \frac{138}{535}, \frac{264}{535}, -\frac{106}{535}, \frac{22}{535})$ $+ \frac{24}{535}\sqrt{555}e^1 \otimes e_8$	{123459, 1679, 2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{56}{585}\sqrt{10}e^{12}, \frac{8}{585}\sqrt{565}e^{13}, \frac{16}{195}\sqrt{10}e^{23} + \frac{8}{585}\sqrt{1145}e^{45},$ $\frac{8}{585}\sqrt{705}e^{26} + \frac{8}{117}\sqrt{6}e^{34}$	$(\frac{124}{585}, -\frac{32}{195}, \frac{4}{39}, -\frac{128}{585}, \frac{92}{585}, \frac{28}{585}, \frac{184}{585}, -\frac{4}{65}, -\frac{68}{585})$ $+ \frac{16}{585}\sqrt{330}e^1 \otimes e_8 + \frac{40}{117}\sqrt{2}e^5 \otimes e_9$	{1279, 235678}
941:69	$0, 0, 0, 0, 0, \frac{10}{89}\sqrt{15}e^{12}, \frac{10}{89}\sqrt{17}e^{13}, \frac{20}{89}e^{23} + \frac{10}{89}\sqrt{22}e^{45},$ $\frac{20}{89}e^{26} + \frac{20}{89}e^{34}$	$(\frac{34}{89}, -\frac{11}{89}, -\frac{5}{89}, \frac{17}{89}, -\frac{33}{89}, \frac{23}{89}, \frac{29}{89}, -\frac{16}{89}, \frac{12}{89})$ $+ \frac{10}{89}\sqrt{23}e^4 \otimes e_5 + \frac{30}{89}\sqrt{6}e^1 \otimes e_8$	{2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{72}{535}\sqrt{15}e^{12}, \frac{12}{535}\sqrt{865}e^{13}, \frac{12}{535}\sqrt{190}e^{23} + \frac{12}{535}\sqrt{305}e^{45},$ $\frac{12}{535}\sqrt{1045}e^{26} + \frac{12}{107}\sqrt{26}e^{34}$	$(-\frac{38}{107}, \frac{36}{107}, \frac{2}{107}, \frac{32}{107}, \frac{6}{107}, -\frac{2}{107}, -\frac{36}{107}, \frac{38}{107}, \frac{34}{107})$ $+ \frac{24}{535}\sqrt{555}e^2 \otimes e_7$	{123459, 1679, 2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{2}e^{12}, \frac{3}{41}\sqrt{6}e^{13}, \frac{1}{41}\sqrt{14}e^{23} + \frac{2}{41}\sqrt{10}e^{45},$ $\frac{2}{41}\sqrt{10}e^{26} + \frac{2}{41}\sqrt{11}e^{34}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, \frac{5}{41}, -\frac{6}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{74}e^1 \otimes e_8 - \frac{1}{41}\sqrt{74}e^2 \otimes e_7$	{123459, 1679, 2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{2}e^{12}, \frac{3}{41}\sqrt{6}e^{13}, \frac{1}{41}\sqrt{14}e^{23} + \frac{2}{41}\sqrt{10}e^{45},$ $\frac{2}{41}\sqrt{10}e^{26} + \frac{2}{41}\sqrt{11}e^{34}$	$(\frac{1}{41}, \frac{1}{41}, -\frac{2}{41}, \frac{5}{41}, -\frac{6}{41}, \frac{2}{41}, -\frac{1}{41}, -\frac{1}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{74}e^1 \otimes e_8 + \frac{1}{41}\sqrt{74}e^2 \otimes e_7$	{123459, 1679, 2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{42}e^{12}, \frac{2}{33}\sqrt{35}e^{13}, \frac{2}{33}\sqrt{10}e^{23} + \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{11}e^{26} + \frac{1}{33}\sqrt{26}e^{34}$	$(\frac{1}{9}, \frac{1}{99}, -\frac{8}{99}, \frac{7}{33}, -\frac{28}{99}, \frac{4}{33}, \frac{1}{33}, -\frac{7}{99}, \frac{13}{99})$ $- \frac{1}{33}\sqrt{170}e^4 \otimes e_7 + \frac{2}{33}\sqrt{46}e^1 \otimes e_8$	{1279, 134569, 235678, 48}
941:69	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{42}e^{12}, \frac{2}{33}\sqrt{35}e^{13}, \frac{2}{33}\sqrt{10}e^{23} + \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{11}e^{26} + \frac{1}{33}\sqrt{26}e^{34}$	$(\frac{1}{9}, \frac{1}{99}, -\frac{8}{99}, \frac{7}{33}, -\frac{28}{99}, \frac{4}{33}, \frac{1}{33}, -\frac{7}{99}, \frac{13}{99})$ $+ \frac{1}{33}\sqrt{170}e^4 \otimes e_7 + \frac{2}{33}\sqrt{46}e^1 \otimes e_8$	{1279, 134569, 235678, 48}
941:69	$0, 0, 0, 0, 0, \frac{16}{111}\sqrt{10}e^{12}, \frac{4}{111}\sqrt{70}e^{13}, \frac{8}{37}\sqrt{10}e^{23} + \frac{4}{111}\sqrt{430}e^{45},$ $\frac{4}{111}\sqrt{430}e^{26} + \frac{8}{37}\sqrt{5}e^{34}$	$(-\frac{4}{111}, -\frac{4}{111}, \frac{10}{37}, -\frac{14}{37}, \frac{68}{111}, -\frac{8}{111}, \frac{26}{111}, \frac{26}{111}, -\frac{4}{37})$ $+ \frac{8}{111}\sqrt{230}e^5 \otimes e_9$	{1369, 146789, 3457, 58}
941:69	$0, 0, 0, 0, 0, \frac{10}{89}\sqrt{15}e^{12}, \frac{10}{89}\sqrt{17}e^{13}, \frac{20}{89}e^{23} + \frac{20}{89}e^{45},$ $\frac{10}{89}\sqrt{22}e^{26} + \frac{20}{89}e^{34}$	$(-\frac{20}{89}, \frac{25}{89}, -\frac{5}{89}, \frac{35}{89}, -\frac{15}{89}, \frac{5}{89}, -\frac{25}{89}, \frac{20}{89}, \frac{30}{89})$ $+ \frac{10}{89}\sqrt{23}e^4 \otimes e_5 + \frac{30}{89}\sqrt{6}e^2 \otimes e_7$	{2468, 3578}
941:69	$0, 0, 0, 0, 0, \frac{5}{101}\sqrt{105}e^{12}, \frac{5}{101}\sqrt{115}e^{13}, \frac{5}{101}\sqrt{35}e^{23} + \frac{20}{101}\sqrt{5}e^{45},$ $\frac{20}{101}\sqrt{5}e^{26} + \frac{10}{101}\sqrt{110}e^{34}$	$(\frac{35}{202}, \frac{35}{202}, -\frac{25}{202}, \frac{65}{101}, -\frac{60}{101}, \frac{35}{101}, \frac{5}{101}, \frac{5}{101}, \frac{105}{202})$ $+ \frac{65}{101}\sqrt{5}e^4 \otimes e_5$	{125, 13467, 24679, 359}
941:69	$0, 0, 0, 0, 0, \frac{6}{319}\sqrt{138}e^{12}, \frac{6}{319}\sqrt{1955}e^{13}, \frac{3}{319}\sqrt{3979}e^{23} + \frac{6}{319}\sqrt{1909}e^{45},$ $\frac{3}{319}\sqrt{3473}e^{26} + \frac{3}{319}\sqrt{4255}e^{34}$	$(-\frac{221}{638}, \frac{141}{638}, \frac{113}{638}, -\frac{26}{319}, \frac{153}{319}, -\frac{40}{319}, -\frac{54}{319}, \frac{127}{319}, \frac{61}{638})$ $+ \frac{3}{319}\sqrt{12489}e^5 \otimes e_7$	{123568, 1478, 234789, 5689}
941:70	$0, 0, 0, 0, 0, \frac{40}{2341}\sqrt{770}e^{12}, \frac{30}{2341}\sqrt{2555}e^{13},$ $\frac{20}{2341}\sqrt{5495}e^{24} + \frac{10}{2341}\sqrt{18165}e^{35}, \frac{10}{2341}\sqrt{3045}e^{26} + \frac{10}{2341}\sqrt{17535}e^{34}$	$(\frac{1332}{2341}, -\frac{679}{2341}, -\frac{287}{2341}, \frac{261}{2341}, -\frac{131}{2341}, \frac{653}{2341}, \frac{1045}{2341}, -\frac{418}{2341}, -\frac{26}{2341})$ $+ \frac{210}{2341}\sqrt{155}e^1 \otimes e_8$	{123459, 1679, 23678, 458}
941:70	$0, 0, 0, 0, 0, \frac{5}{79}e^{12}, \frac{5}{79}\sqrt{65}e^{13}, \frac{5}{79}\sqrt{39}e^{24} + \frac{25}{79}e^{35},$ $\frac{15}{79}\sqrt{3}e^{26} + \frac{5}{79}\sqrt{13}e^{34}$	$(-\frac{25}{79}, \frac{20}{79}, \frac{20}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, \frac{15}{79}, \frac{15}{79})$ $+ \frac{5}{79}\sqrt{51}e^3 \otimes e_5 + \frac{5}{79}\sqrt{91}e^2 \otimes e_7$	{12349, 15679, 2456, 37}
941:70	$0, 0, 0, 0, 0, \frac{5}{79}e^{12}, \frac{5}{79}\sqrt{65}e^{13}, \frac{5}{79}\sqrt{39}e^{24} + \frac{25}{79}e^{35},$ $\frac{15}{79}\sqrt{3}e^{26} + \frac{5}{79}\sqrt{13}e^{34}$	$(-\frac{25}{79}, \frac{20}{79}, \frac{20}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, -\frac{5}{79}, \frac{15}{79}, \frac{15}{79})$ $- \frac{5}{79}\sqrt{51}e^3 \otimes e_5 + \frac{5}{79}\sqrt{91}e^2 \otimes e_7$	{12349, 15679, 2456, 37}
941:70	$0, 0, 0, 0, 0, \frac{16}{3491}\sqrt{83}e^{12}, \frac{120}{3491}\sqrt{6}e^{13}, \frac{8}{3491}\sqrt{1145}e^{24} + \frac{40}{3491}\sqrt{3}e^{35},$ $\frac{8}{3491}\sqrt{615}e^{26} + \frac{8}{3491}\sqrt{966}e^{34}$	$(\frac{72}{3491}, -\frac{68}{3491}, -\frac{172}{3491}, \frac{108}{3491}, \frac{212}{3491}, \frac{4}{3491}, -\frac{100}{3491}, \frac{40}{3491}, -\frac{64}{3491})$ $+ \frac{24}{3491}\sqrt{163}e^1 \otimes e_8 + \frac{24}{3491}\sqrt{193}e^2 \otimes e_7$	{123459, 1679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:70	$0, 0, 0, 0, 0, \frac{4}{337} \sqrt{357}e^{12}, \frac{28}{337} \sqrt{21}e^{13}, \frac{36}{337} \sqrt{14}e^{24} + \frac{20}{337} \sqrt{14}e^{35},$ $\frac{12}{337} \sqrt{35}e^{26} + \frac{4}{337} \sqrt{21}e^{34}$	$(\frac{60}{337}, -\frac{42}{337}, -\frac{70}{337}, \frac{46}{337}, \frac{74}{337}, \frac{18}{337}, -\frac{10}{337}, \frac{4}{337}, -\frac{24}{337})$ $-\frac{4}{337} \sqrt{1267}e^4 \otimes e_7 + \frac{8}{337} \sqrt{231}e^1 \otimes e_8$	{123469, 1579, 23578, 468}
941:70	$0, 0, 0, 0, 0, \frac{4}{337} \sqrt{357}e^{12}, \frac{28}{337} \sqrt{21}e^{13}, \frac{36}{337} \sqrt{14}e^{24} + \frac{20}{337} \sqrt{14}e^{35},$ $\frac{12}{337} \sqrt{35}e^{26} + \frac{4}{337} \sqrt{21}e^{34}$	$(\frac{60}{337}, -\frac{42}{337}, -\frac{70}{337}, \frac{46}{337}, \frac{74}{337}, \frac{18}{337}, -\frac{10}{337}, \frac{4}{337}, -\frac{24}{337})$ $+\frac{4}{337} \sqrt{1267}e^4 \otimes e_7 + \frac{8}{337} \sqrt{231}e^1 \otimes e_8$	{123469, 1579, 23578, 468}
941:70	$0, 0, 0, 0, 0, \frac{1}{383} \sqrt{12122}e^{12}, \frac{4}{383} \sqrt{4389}e^{13},$ $\frac{16}{383} \sqrt{209}e^{24} + \frac{3}{383} \sqrt{2090}e^{35}, \frac{4}{383} \sqrt{3135}e^{26} + \frac{1}{383} \sqrt{43890}e^{34}$	$(-\frac{141}{383}, \frac{106}{383}, \frac{38}{383}, \frac{33}{383}, \frac{101}{383}, -\frac{35}{383}, -\frac{103}{383}, \frac{139}{383}, \frac{71}{383})$ $+\frac{1}{383} \sqrt{136686}e^2 \otimes e_7$	{12349, 15679, 2456, 37}
941:70	$0, 0, 0, 0, 0, \frac{3}{566} \sqrt{11795}e^{12}, \frac{3}{566} \sqrt{12390}e^{13},$ $\frac{3}{566} \sqrt{17430}e^{24} + \frac{15}{566} \sqrt{770}e^{35}, \frac{18}{283} \sqrt{105}e^{26} + \frac{3}{566} \sqrt{11690}e^{34}$	$(\frac{44}{283}, -\frac{28}{283}, -\frac{371}{1132}, \frac{323}{1132}, \frac{291}{566}, \frac{16}{283}, -\frac{195}{1132}, \frac{211}{1132}, -\frac{12}{283})$ $+\frac{21}{566} \sqrt{695}e^5 \otimes e_9$	{136789, 1469, 345, 578}
941:70	$0, 0, 0, 0, 0, \frac{12}{2273} \sqrt{266}e^{24} + \frac{6}{2273} \sqrt{88046}e^{35}, \frac{6}{2273} \sqrt{36043}e^{26} + \frac{6}{2273} \sqrt{55195}e^{34}$	$(-\frac{216}{2273}, \frac{231}{2273}, -\frac{567}{2273}, \frac{813}{2273}, \frac{1611}{2273}, \frac{15}{2273}, -\frac{783}{2273}, \frac{1044}{2273}, \frac{246}{2273})$ $+\frac{42}{2273} \sqrt{5111}e^5 \otimes e_7$	{12356, 147, 234789, 5689}
941:70	$0, 0, 0, 0, 0, \frac{3}{259} \sqrt{154}e^{12}, \frac{3}{37} \sqrt{23}e^{13}, \frac{3}{259} \sqrt{574}e^{24} + \frac{3}{259} \sqrt{917}e^{35},$ $\frac{6}{37} e^{26} + \frac{3}{259} \sqrt{826}e^{34}$	$(\frac{9}{37}, -\frac{6}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $+\frac{3}{259} \sqrt{1463}e^5 \otimes e_7 + \frac{9}{259} \sqrt{203}e^1 \otimes e_8$	{123459, 1679, 23678, 458}
941:70	$0, 0, 0, 0, 0, \frac{3}{259} \sqrt{154}e^{12}, \frac{3}{37} \sqrt{23}e^{13}, \frac{3}{259} \sqrt{574}e^{24} + \frac{3}{259} \sqrt{917}e^{35},$ $\frac{6}{37} e^{26} + \frac{3}{259} \sqrt{826}e^{34}$	$(\frac{9}{37}, -\frac{6}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $-\frac{3}{259} \sqrt{1463}e^5 \otimes e_7 + \frac{9}{259} \sqrt{203}e^1 \otimes e_8$	{123459, 1679, 23678, 458}
941:70	$0, 0, 0, 0, 0, \frac{4}{1101} \sqrt{11870}e^{12}, \frac{1}{367} \sqrt{92586}e^{13},$ $\frac{1}{1101} \sqrt{154310}e^{24} + \frac{4}{1101} \sqrt{27301}e^{35}, \frac{1}{1101} \sqrt{159058}e^{26} + \frac{4}{1101} \sqrt{46293}e^{34}$	$(-\frac{95}{1101}, \frac{86}{367}, \frac{622}{1101}, -\frac{67}{367}, -\frac{565}{1101}, \frac{163}{1101}, \frac{527}{1101}, \frac{19}{367}, \frac{421}{1101})$ $+\frac{5}{1101} \sqrt{87838}e^3 \otimes e_5$	{1245679, 139, 2347, 56}
941:70	$0, 0, 0, 0, 0, \frac{29}{2461} \sqrt{898}e^{12}, \frac{29}{2461} \sqrt{326}e^{13},$ $\frac{29}{2461} \sqrt{246}e^{24} + \frac{29}{2461} \sqrt{878}e^{35}, \frac{58}{2461} \sqrt{429}e^{26} + \frac{58}{2461} \sqrt{5}e^{34}$	$(-\frac{319}{2461}, \frac{203}{2461}, -\frac{319}{2461}, \frac{406}{2461}, \frac{928}{2461}, -\frac{116}{2461}, \frac{638}{2461}, \frac{609}{2461}, \frac{87}{2461})$ $+\frac{58}{2461} \sqrt{537}e^5 \otimes e_9 + \frac{58}{2461} \sqrt{547}e^2 \otimes e_7$	{14679, 3457}
941:70	$0, 0, 0, 0, 0, \frac{4}{103} \sqrt{105}e^{12}, \frac{7}{103} \sqrt{10}e^{13}, \frac{5}{103} \sqrt{42}e^{24} + \frac{1}{103} \sqrt{2730}e^{35},$ $\frac{4}{103} \sqrt{105}e^{26} + \frac{4}{103} \sqrt{35}e^{34}$	$(\frac{33}{103}, -\frac{21}{103}, -\frac{28}{103}, \frac{19}{103}, \frac{26}{103}, \frac{12}{103}, \frac{5}{103}, -\frac{2}{103}, -\frac{9}{103})$ $+\frac{1}{103} \sqrt{3710}e^5 \otimes e_9 + \frac{2}{103} \sqrt{665}e^1 \otimes e_8$	{1469, 578}
941:70	$0, 0, 0, 0, 0, \frac{48}{2579} \sqrt{494}e^{24} + \frac{144}{2579} \sqrt{14}e^{35}, \frac{96}{2579} \sqrt{14}e^{26} + \frac{48}{2579} \sqrt{39}e^{34}$	$(\frac{720}{2579}, -\frac{264}{2579}, \frac{360}{2579}, -\frac{168}{2579}, -\frac{792}{2579}, \frac{456}{2579}, \frac{1080}{2579}, -\frac{432}{2579}, \frac{192}{2579})$ $+\frac{48}{2579} \sqrt{1339}e^1 \otimes e_8 + \frac{48}{2579} \sqrt{953}e^3 \otimes e_5$	{25689, 34789}
941:71	$0, 0, 0, 0, 0, \frac{1}{14} \sqrt{34}e^{12}, \frac{1}{14} \sqrt{30}e^{13} + \frac{1}{14} \sqrt{14}e^{24}, \frac{1}{14} \sqrt{30}e^{35},$ $\frac{1}{14} \sqrt{30}e^{16} + \frac{1}{14} \sqrt{2}e^{34}$	$(\frac{1}{7}, 0, \frac{1}{14}, \frac{3}{14}, -\frac{5}{14}, \frac{1}{7}, \frac{3}{14}, -\frac{2}{7}, \frac{2}{7})$ $+\frac{1}{2} \sqrt{2}e^1 \otimes e_8 - \frac{5}{14} \sqrt{2}e^3 \otimes e_5$	{2346789, 25689, 378, 458}
941:71	$0, 0, 0, 0, 0, \frac{1}{14} \sqrt{34}e^{12}, \frac{1}{14} \sqrt{30}e^{13} + \frac{1}{14} \sqrt{14}e^{24}, \frac{1}{14} \sqrt{30}e^{35},$ $\frac{1}{14} \sqrt{30}e^{16} + \frac{1}{14} \sqrt{2}e^{34}$	$(\frac{1}{7}, 0, \frac{1}{14}, \frac{3}{14}, -\frac{5}{14}, \frac{1}{7}, \frac{3}{14}, -\frac{2}{7}, \frac{2}{7})$ $+\frac{1}{2} \sqrt{2}e^1 \otimes e_8 + \frac{5}{14} \sqrt{2}e^3 \otimes e_5$	{2346789, 25689, 378, 458}
941:71	$0, 0, 0, 0, 0, \frac{90}{659} \sqrt{14}e^{12}, \frac{6}{659} \sqrt{3855}e^{13} + \frac{6}{659} \sqrt{4290}e^{24}, \frac{12}{659} \sqrt{1335}e^{35},$ $\frac{78}{659} \sqrt{15}e^{16} + \frac{12}{659} \sqrt{570}e^{34}$	$(-\frac{24}{659}, \frac{163}{659}, \frac{151}{659}, -\frac{36}{659}, -\frac{258}{659}, \frac{139}{659}, \frac{127}{659}, -\frac{107}{659}, \frac{115}{659})$ $+\frac{18}{659} \sqrt{935}e^2 \otimes e_8$	{234569, 2679, 38, 4578}
941:71	$0, 0, 0, 0, 0, \frac{1}{330} \sqrt{330}e^{12}, \frac{1}{165} \sqrt{115}e^{13} + \frac{1}{165} \sqrt{365}e^{24}, \frac{1}{330} \sqrt{1570}e^{35},$ $\frac{1}{330} \sqrt{565}e^{16} + \frac{1}{66} \sqrt{38}e^{34}$	$(-\frac{1}{22}, \frac{2}{33}, \frac{5}{132}, -\frac{3}{44}, \frac{1}{132}, \frac{66}{1}, -\frac{1}{132}, \frac{1}{22}, -\frac{1}{33})$ $+\frac{1}{330} \sqrt{1310}e^5 \otimes e_7 + \frac{1}{330} \sqrt{1705}e^2 \otimes e_8$	{234569, 2679}
941:71	$0, 0, 0, 0, 0, \frac{9}{164} \sqrt{14}e^{12}, \frac{3}{82} \sqrt{329}e^{13} + \frac{3}{82} \sqrt{427}e^{24}, \frac{15}{164} \sqrt{70}e^{35},$ $\frac{3}{82} \sqrt{119}e^{16} + \frac{3}{164} \sqrt{658}e^{34}$	$(\frac{53}{164}, -\frac{19}{82}, -\frac{23}{328}, \frac{159}{328}, -\frac{35}{164}, \frac{15}{164}, \frac{83}{328}, -\frac{93}{328}, \frac{17}{41})$ $+\frac{21}{164} \sqrt{78}e^4 \otimes e_8$	{123789, 1249, 134567, 1568}
941:71	$0, 0, 0, 0, 0, \frac{88}{1927} \sqrt{6}e^{12}, \frac{44}{1927} \sqrt{114}e^{13} + \frac{132}{1927} \sqrt{17}e^{24},$ $\frac{44}{1927} \sqrt{145}e^{35}, \frac{44}{1927} \sqrt{159}e^{16} + \frac{132}{1927} \sqrt{62}e^{34}$	$(\frac{264}{1927}, \frac{66}{1927}, \frac{198}{1927}, \frac{396}{1927}, -\frac{770}{1927}, \frac{330}{1927}, \frac{462}{1927}, -\frac{572}{1927}, \frac{594}{1927})$ $+\frac{176}{1927} \sqrt{57}e^4 \otimes e_8 + \frac{88}{1927} \sqrt{205}e^3 \otimes e_5$	{23789, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:71	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{32}{111}e^{13} + \frac{16}{999}\sqrt{211}e^{24}, \frac{16}{333}\sqrt{43}e^{35},$ $\frac{16}{999}\sqrt{239}e^{16} + \frac{16}{111}\sqrt{2}e^{34}$	$(\frac{112}{999}, -\frac{184}{999}, -\frac{128}{999}, \frac{56}{333}, \frac{56}{333}, -\frac{8}{111}, -\frac{16}{999}, \frac{40}{999}, \frac{40}{999})$ $+ \frac{16}{999}\sqrt{458}e^5 \otimes e_9 + \frac{32}{999}\sqrt{111}e^4 \otimes e_8$	{123789, 1249, 134567, 1568}
941:71	$0, 0, 0, 0, 0, \frac{16}{999}\sqrt{70}e^{12}, \frac{32}{111}e^{13} + \frac{16}{999}\sqrt{211}e^{24}, \frac{16}{333}\sqrt{43}e^{35},$ $\frac{16}{999}\sqrt{239}e^{16} + \frac{16}{111}\sqrt{2}e^{34}$	$(\frac{112}{999}, -\frac{184}{999}, -\frac{128}{999}, \frac{56}{333}, \frac{56}{333}, -\frac{8}{111}, -\frac{16}{999}, \frac{40}{999}, \frac{40}{999})$ $- \frac{16}{999}\sqrt{458}e^5 \otimes e_9 + \frac{32}{999}\sqrt{111}e^4 \otimes e_8$	{123789, 1249, 134567, 1568}
941:71	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{3}{112}\sqrt{42}e^{13} + \frac{1}{56}\sqrt{154}e^{24}, \frac{1}{112}\sqrt{1218}e^{35},$ $\frac{1}{4}e^{16} + \frac{1}{14}\sqrt{14}e^{34}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $- \frac{1}{112}\sqrt{1302}e^5 \otimes e_7 + \frac{1}{112}\sqrt{1526}e^1 \otimes e_8$	{123459, 1279, 1356, 1467}
941:71	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{70}e^{12}, \frac{3}{112}\sqrt{42}e^{13} + \frac{1}{56}\sqrt{154}e^{24}, \frac{1}{112}\sqrt{1218}e^{35},$ $\frac{1}{4}e^{16} + \frac{1}{14}\sqrt{14}e^{34}$	$(\frac{1}{8}, -\frac{3}{16}, -\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{16}, 0, 0, \frac{1}{16})$ $+ \frac{1}{112}\sqrt{1302}e^5 \otimes e_7 + \frac{1}{112}\sqrt{1526}e^1 \otimes e_8$	{123459, 1279, 1356, 1467}
941:71	$0, 0, 0, 0, 0, \frac{8}{893}\sqrt{4189}e^{12}, \frac{4}{893}\sqrt{1770}e^{13} + \frac{4}{893}\sqrt{649}e^{24}, \frac{4}{893}\sqrt{20945}e^{35},$ $\frac{4}{893}\sqrt{20945}e^{16} + \frac{4}{893}\sqrt{11918}e^{34}$	$(\frac{224}{893}, -\frac{150}{893}, -\frac{2}{47}, \frac{336}{893}, -\frac{210}{893}, \frac{74}{893}, \frac{186}{893}, -\frac{248}{893}, \frac{298}{893})$ $+ \frac{8}{893}\sqrt{11033}e^1 \otimes e_8$	{123459, 1279, 1356, 1467}
941:71	$0, 0, 0, 0, 0, \frac{72}{383}e^{12}, \frac{12}{383}\sqrt{14}e^{13} + \frac{12}{383}\sqrt{157}e^{24}, \frac{12}{383}\sqrt{145}e^{35},$ $\frac{12}{383}\sqrt{29}e^{16} + \frac{12}{383}\sqrt{38}e^{34}$	$(\frac{56}{383}, -\frac{86}{383}, -\frac{58}{383}, \frac{84}{383}, \frac{70}{383}, -\frac{30}{383}, -\frac{2}{383}, \frac{12}{383}, \frac{26}{383})$ $+ \frac{24}{383}\sqrt{42}e^4 \otimes e_8 + \frac{72}{383}\sqrt{5}e^5 \otimes e_7$	{123678, 1589}
941:71	$0, 0, 0, 0, 0, \frac{16}{3375}\sqrt{814}e^{12}, \frac{32}{3375}\sqrt{321}e^{13} + \frac{112}{3375}\sqrt{19}e^{24},$ $\frac{16}{3375}\sqrt{1631}e^{35}, \frac{16}{3375}\sqrt{1047}e^{16} + \frac{16}{1125}\sqrt{26}e^{34}$	$(-\frac{16}{225}, \frac{344}{3375}, \frac{224}{3375}, -\frac{8}{75}, -\frac{8}{3375}, \frac{104}{3375}, -\frac{16}{3375}, \frac{8}{125}, -\frac{136}{3375})$ $+ \frac{16}{3375}\sqrt{1286}e^5 \otimes e_9 + \frac{32}{3375}\sqrt{438}e^2 \otimes e_8$	{2679, 4578}
941:71	$0, 0, 0, 0, 0, \frac{16}{111}\sqrt{10}e^{12}, \frac{8}{37}\sqrt{10}e^{13} + \frac{4}{111}\sqrt{70}e^{24}, \frac{4}{111}\sqrt{430}e^{35},$ $\frac{4}{111}\sqrt{430}e^{16} + \frac{8}{37}\sqrt{5}e^{34}$	$(-\frac{4}{111}, -\frac{4}{111}, -\frac{2}{37}, -\frac{2}{37}, \frac{68}{111}, -\frac{8}{111}, -\frac{10}{111}, \frac{62}{111}, -\frac{4}{37})$ $+ \frac{8}{111}\sqrt{230}e^5 \otimes e_9$	{123789, 1249, 134567, 1568}
941:71	$0, 0, 0, 0, 0, \frac{360}{2519}\sqrt{11}e^{12}, \frac{420}{2519}\sqrt{10}e^{13} + \frac{60}{2519}\sqrt{1069}e^{24},$ $\frac{60}{2519}\sqrt{937}e^{35}, \frac{60}{2519}\sqrt{221}e^{16} + \frac{60}{2519}\sqrt{782}e^{34}$	$(\frac{56}{2519}, -\frac{302}{2519}, -\frac{274}{2519}, \frac{84}{2519}, \frac{1582}{2519}, -\frac{246}{2519}, -\frac{218}{2519}, \frac{1308}{2519}, -\frac{190}{2519})$ $+ \frac{120}{2519}\sqrt{537}e^5 \otimes e_7$	{2378, 2458, 346789, 5689}
941:71	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{39}e^{12}, \frac{1}{74}\sqrt{318}e^{13} + \frac{1}{37}\sqrt{69}e^{24}, \frac{1}{37}\sqrt{82}e^{35},$ $\frac{1}{74}\sqrt{201}e^{16} + \frac{2}{37}\sqrt{15}e^{34}$	$(\frac{3}{74}, -\frac{3}{74}, -\frac{3}{148}, \frac{9}{148}, -\frac{5}{148}, 0, \frac{3}{148}, -\frac{2}{37}, \frac{3}{74})$ $+ \frac{1}{74}\sqrt{278}e^3 \otimes e_5 + \frac{1}{74}\sqrt{381}e^2 \otimes e_8$	{234569, 2679}
941:71	$0, 0, 0, 0, 0, \frac{8}{749}\sqrt{498}e^{12}, \frac{12}{749}\sqrt{3154}e^{13} + \frac{12}{749}\sqrt{1743}e^{24},$ $\frac{4}{749}\sqrt{16351}e^{35}, \frac{4}{749}\sqrt{16351}e^{16} + \frac{4}{749}\sqrt{27390}e^{34}$	$(-\frac{40}{749}, \frac{42}{107}, \frac{274}{749}, -\frac{60}{749}, -\frac{390}{749}, \frac{254}{749}, \frac{234}{749}, -\frac{116}{749}, \frac{2}{7})$ $+ \frac{8}{749}\sqrt{13861}e^3 \otimes e_5$	{12369, 1245679, 134, 157}
941:71	$0, 0, 0, 0, 0, \frac{24}{1199}\sqrt{94}e^{12}, \frac{32}{1199}\sqrt{30}e^{13} + \frac{8}{1199}\sqrt{69}e^{24}, \frac{40}{1199}\sqrt{57}e^{35},$ $\frac{40}{1199}\sqrt{57}e^{16} + \frac{24}{1199}\sqrt{22}e^{34}$	$(\frac{112}{1199}, -\frac{180}{1199}, -\frac{124}{1199}, \frac{168}{1199}, \frac{140}{1199}, -\frac{68}{1199}, -\frac{12}{1199}, \frac{16}{1199}, \frac{4}{109})$ $+ \frac{16}{1199}\sqrt{438}e^1 \otimes e_8 + \frac{56}{1199}\sqrt{30}e^5 \otimes e_9$	{234689, 4578}
941:72	$0, 0, 0, 0, 0, \frac{24}{563}\sqrt{110}e^{12}, \frac{4}{563}\sqrt{3454}e^{14} + \frac{8}{563}\sqrt{737}e^{23}, \frac{4}{563}\sqrt{6094}e^{35},$ $\frac{24}{563}\sqrt{110}e^{16} + \frac{8}{563}\sqrt{737}e^{34}$	$(\frac{46}{563}, \frac{32}{563}, \frac{69}{563}, \frac{55}{563}, -\frac{199}{563}, \frac{78}{563}, \frac{101}{563}, -\frac{130}{563}, \frac{124}{563})$ $+ \frac{4}{563}\sqrt{10670}e^1 \otimes e_8$	{2346789, 25689, 38, 4578}
941:72	$0, 0, 0, 0, 0, \frac{98}{4973}\sqrt{30}e^{12}, \frac{147}{4973}\sqrt{190}e^{14} + \frac{49}{4973}\sqrt{354}e^{23},$ $\frac{98}{4973}\sqrt{319}e^{35}, \frac{49}{4973}\sqrt{1182}e^{16} + \frac{196}{4973}\sqrt{177}e^{34}$	$(\frac{294}{4973}, \frac{735}{4973}, \frac{441}{4973}, \frac{882}{4973}, -\frac{1960}{4973}, \frac{1029}{4973}, \frac{1176}{4973}, -\frac{1519}{4973}, \frac{1323}{4973})$ $+ \frac{147}{4973}\sqrt{590}e^4 \otimes e_8 + \frac{98}{4973}\sqrt{910}e^3 \otimes e_5$	{1236789, 1578}
941:72	$0, 0, 0, 0, 0, \frac{54}{7333}\sqrt{101}e^{12}, \frac{9}{7333}\sqrt{1874}e^{14} + \frac{9}{7333}\sqrt{3106}e^{23},$ $\frac{9}{7333}\sqrt{6294}e^{35}, \frac{9}{7333}\sqrt{4634}e^{16} + \frac{9}{7333}\sqrt{1110}e^{34}$	$(-\frac{234}{7333}, \frac{423}{7333}, \frac{351}{7333}, \frac{306}{7333}, \frac{36}{7333}, \frac{189}{7333}, \frac{72}{7333}, -\frac{315}{7333}, -\frac{45}{7333})$ $+ \frac{90}{7333}\sqrt{83}e^1 \otimes e_8 + \frac{9}{7333}\sqrt{4990}e^5 \otimes e_9$	{2346789, 4578}
941:72	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{10234}e^{12}, \frac{17}{142}\sqrt{14}e^{14} + \frac{1}{71}\sqrt{1785}e^{23}, \frac{1}{142}\sqrt{10234}e^{35},$ $\frac{1}{142}\sqrt{4641}e^{16} + \frac{17}{142}\sqrt{14}e^{34}$	$(-\frac{21}{142}, \frac{69}{142}, -\frac{63}{284}, \frac{117}{284}, -\frac{37}{284}, \frac{24}{71}, \frac{75}{284}, -\frac{25}{71}, \frac{27}{142})$ $+ \frac{1}{142}\sqrt{27965}e^2 \otimes e_8$	{234569, 2679, 378, 458}
941:72	$0, 0, 0, 0, 0, \frac{4}{523}\sqrt{201}e^{12}, \frac{12}{523}\sqrt{670}e^{14} + \frac{4}{523}\sqrt{11859}e^{23}, \frac{8}{523}\sqrt{1541}e^{35},$ $\frac{4}{523}\sqrt{201}e^{16} + \frac{4}{523}\sqrt{11859}e^{34}$	$(\frac{174}{523}, -\frac{96}{523}, \frac{261}{523}, -\frac{9}{523}, -\frac{275}{523}, \frac{78}{523}, \frac{165}{523}, -\frac{14}{523}, \frac{252}{523})$ $+ \frac{4}{523}\sqrt{29815}e^3 \otimes e_5$	{12369, 1245679, 1347, 15}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:72	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{4641}e^{12}, \frac{17}{142}\sqrt{14}e^{14} + \frac{17}{142}\sqrt{14}e^{23}, \frac{1}{142}\sqrt{10234}e^{35},$ $\frac{1}{142}\sqrt{10234}e^{16} + \frac{1}{71}\sqrt{1785}e^{34}$	$(-\frac{21}{142}, \frac{11}{71}, -\frac{63}{284}, \frac{23}{284}, \frac{99}{142}, \frac{1}{142}, -\frac{19}{284}, \frac{135}{284}, -\frac{10}{71})$ $+ \frac{1}{142}\sqrt{27965}e^5 \otimes e_9$	{236789, 2469, 345, 578}
941:72	$0, 0, 0, 0, 0, \frac{3}{178}\sqrt{498}e^{12}, \frac{3}{178}\sqrt{510}e^{14} + \frac{45}{89}e^{23}, \frac{9}{178}\sqrt{26}e^{35},$ $\frac{9}{178}\sqrt{21}e^{16} + \frac{3}{178}\sqrt{282}e^{34}$	$(\frac{9}{178}, \frac{27}{178}, \frac{27}{356}, \frac{63}{356}, -\frac{135}{356}, \frac{18}{89}, \frac{81}{356}, -\frac{27}{89}, \frac{45}{178})$ $+ \frac{3}{178}\sqrt{1545}e^2 \otimes e_8 + \frac{3}{89}\sqrt{330}e^3 \otimes e_5$	{134678, 1568}
941:72	$0, 0, 0, 0, 0, \frac{7}{1059}\sqrt{3206}e^{12}, \frac{7}{1059}\sqrt{2002}e^{14} + \frac{7}{353}\sqrt{70}e^{23},$ $\frac{7}{1059}\sqrt{4522}e^{35}, \frac{7}{1059}\sqrt{3206}e^{16} + \frac{7}{353}\sqrt{70}e^{34}$	$(-\frac{196}{1059}, \frac{105}{353}, -\frac{98}{353}, \frac{217}{1059}, \frac{266}{1059}, \frac{119}{1059}, \frac{7}{353}, -\frac{28}{1059}, -\frac{77}{1059})$ $+ \frac{14}{1059}\sqrt{1645}e^2 \otimes e_8 + \frac{14}{1059}\sqrt{1645}e^5 \otimes e_9$	{12479, 1568}
941:72	$0, 0, 0, 0, 0, \frac{7}{199}\sqrt{30}e^{12}, \frac{5}{199}\sqrt{238}e^{14} + \frac{7}{199}\sqrt{10}e^{23}, \frac{1}{199}\sqrt{4970}e^{35},$ $\frac{7}{199}\sqrt{30}e^{16} + \frac{7}{199}\sqrt{10}e^{34}$	$(-\frac{28}{199}, \frac{43}{199}, -\frac{42}{199}, \frac{29}{199}, \frac{36}{199}, \frac{15}{199}, \frac{1}{199}, -\frac{6}{199}, -\frac{13}{199})$ $+ \frac{2}{199}\sqrt{1610}e^4 \otimes e_8 + \frac{2}{199}\sqrt{1610}e^5 \otimes e_7$	{2589, 467}
941:72	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154}e^{12}, \frac{3}{259}\sqrt{574}e^{14} + \frac{6}{259}\sqrt{210}e^{23}, \frac{6}{259}\sqrt{301}e^{35},$ $\frac{6}{37}e^{16} + \frac{3}{259}\sqrt{826}e^{34}$	$(-\frac{6}{37}, \frac{9}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $- \frac{15}{259}\sqrt{70}e^5 \otimes e_7 + \frac{6}{259}\sqrt{385}e^2 \otimes e_8$	{123459, 1279, 13678, 14568}
941:72	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{154}e^{12}, \frac{3}{259}\sqrt{574}e^{14} + \frac{6}{259}\sqrt{210}e^{23}, \frac{6}{259}\sqrt{301}e^{35},$ $\frac{6}{37}e^{16} + \frac{3}{259}\sqrt{826}e^{34}$	$(-\frac{6}{37}, \frac{9}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, \frac{3}{37}, \frac{3}{37}, 0, 0, -\frac{3}{37})$ $+ \frac{15}{259}\sqrt{70}e^5 \otimes e_7 + \frac{6}{259}\sqrt{385}e^2 \otimes e_8$	{123459, 1279, 13678, 14568}
941:72	$0, 0, 0, 0, 0, \frac{7}{67}\sqrt{22}e^{12}, \frac{21}{67}\sqrt{6}e^{14} + \frac{7}{67}\sqrt{31}e^{23}, \frac{7}{67}\sqrt{47}e^{35},$ $\frac{7}{67}e^{16} + \frac{7}{67}\sqrt{38}e^{34}$	$(-\frac{7}{67}, \frac{5}{67}, -\frac{21}{134}, \frac{3}{134}, \frac{87}{134}, -\frac{2}{67}, -\frac{11}{134}, \frac{33}{67}, -\frac{9}{67})$ $+ \frac{7}{67}\sqrt{115}e^5 \otimes e_7$	{235, 247, 346789, 5689}
941:72	$0, 0, 0, 0, 0, \frac{7}{67}e^{12}, \frac{21}{67}\sqrt{6}e^{14} + \frac{7}{67}\sqrt{38}e^{23}, \frac{7}{67}\sqrt{47}e^{35},$ $\frac{7}{67}\sqrt{22}e^{16} + \frac{7}{67}\sqrt{31}e^{34}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{21}{134}, \frac{49}{134}, -\frac{14}{67}, \frac{21}{67}, \frac{35}{134}, -\frac{49}{134}, \frac{14}{67})$ $+ \frac{7}{67}\sqrt{115}e^4 \otimes e_8$	{234567, 2568, 389, 479}
941:72	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574}e^{14} + \frac{3}{259}\sqrt{826}e^{23}, \frac{6}{259}\sqrt{301}e^{35},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{6}{259}\sqrt{210}e^{34}$	$(-\frac{6}{37}, \frac{69}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{48}{259}, \frac{27}{259}, \frac{259}{259}, -\frac{15}{259}, -\frac{15}{259})$ $+ \frac{15}{259}\sqrt{70}e^4 \otimes e_8 - \frac{6}{259}\sqrt{385}e^5 \otimes e_9$	{123789, 1249, 13456, 15678}
941:72	$0, 0, 0, 0, 0, \frac{6}{37}e^{12}, \frac{3}{259}\sqrt{574}e^{14} + \frac{3}{259}\sqrt{826}e^{23}, \frac{6}{259}\sqrt{301}e^{35},$ $\frac{3}{259}\sqrt{154}e^{16} + \frac{6}{259}\sqrt{210}e^{34}$	$(-\frac{6}{37}, \frac{69}{259}, -\frac{9}{37}, \frac{48}{259}, \frac{48}{259}, \frac{27}{259}, \frac{6}{259}, -\frac{15}{259}, -\frac{15}{259})$ $+ \frac{15}{259}\sqrt{70}e^4 \otimes e_8 + \frac{6}{259}\sqrt{385}e^5 \otimes e_9$	{123789, 1249, 13456, 15678}
941:72	$0, 0, 0, 0, 0, \frac{2}{811}\sqrt{94}e^{12}, \frac{6}{811}\sqrt{31}e^{14} + \frac{1}{811}\sqrt{190}e^{23}, \frac{1}{811}\sqrt{1446}e^{35},$ $\frac{1}{811}\sqrt{614}e^{16} + \frac{2}{811}\sqrt{226}e^{34}$	$(-\frac{13}{811}, \frac{22}{811}, -\frac{39}{1622}, \frac{31}{1622}, \frac{9}{1622}, \frac{9}{811}, \frac{5}{1622}, -\frac{15}{811}, -\frac{4}{811})$ $+ \frac{1}{811}\sqrt{1190}e^5 \otimes e_7 + \frac{1}{811}\sqrt{445}e^1 \otimes e_8$	{2346789, 25689}
941:73	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{3}e^{14} + \frac{1}{9}\sqrt{21}e^{23},$ $\frac{1}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{45}, \frac{2}{9}\sqrt{3}e^{16}$	$(\frac{1}{18}, -\frac{2}{9}, \frac{2}{9}, -\frac{1}{18}, \frac{1}{3}, -\frac{1}{6}, 0, \frac{5}{18}, -\frac{1}{9})$ $+ \frac{2}{9}\sqrt{6}e^3 \otimes e_9 + \frac{2}{9}\sqrt{6}e^5 \otimes e_7$	{123568, 2345}
941:73	$0, 0, 0, 0, 0, \frac{64}{3671}\sqrt{5}e^{12}, \frac{64}{3671}\sqrt{137}e^{14} + \frac{32}{3671}\sqrt{851}e^{23},$ $\frac{192}{3671}\sqrt{31}e^{13} + \frac{96}{3671}\sqrt{157}e^{45}, \frac{32}{3671}\sqrt{859}e^{16}$	$(\frac{32}{3671}, -\frac{528}{3671}, \frac{608}{3671}, \frac{48}{3671}, \frac{592}{3671}, -\frac{496}{3671}, \frac{80}{3671}, \frac{640}{3671}, -\frac{464}{3671})$ $+ \frac{224}{3671}\sqrt{34}e^4 \otimes e_9 + \frac{32}{3671}\sqrt{1662}e^5 \otimes e_7$	{1279, 1456}
941:73	$0, 0, 0, 0, 0, \frac{17}{1252}\sqrt{581}e^{12}, \frac{17}{1252}\sqrt{115}e^{14} + \frac{17}{1252}\sqrt{581}e^{23},$ $\frac{119}{1252}\sqrt{6}e^{13} + \frac{17}{1252}\sqrt{1086}e^{45}, \frac{17}{626}\sqrt{166}e^{16}$	$(-\frac{187}{2504}, \frac{51}{313}, \frac{17}{2504}, \frac{153}{626}, -\frac{391}{1252}, \frac{221}{2504}, \frac{425}{2504}, -\frac{85}{1252}, \frac{17}{1252})$ $+ \frac{17}{1252}\sqrt{1266}e^2 \otimes e_8 + \frac{17}{1252}\sqrt{934}e^4 \otimes e_9$	{134678, 48}
941:73	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{55}e^{12}, \frac{2}{195}\sqrt{465}e^{14} + \frac{2}{195}\sqrt{1065}e^{23},$ $\frac{4}{39}\sqrt{3}e^{13} + \frac{2}{195}\sqrt{1230}e^{45}, \frac{4}{65}\sqrt{10}e^{16}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{3}{13})$ $+ \frac{14}{195}\sqrt{30}e^2 \otimes e_8 + \frac{4}{195}\sqrt{285}e^5 \otimes e_7$	{134678, 234569}
941:73	$0, 0, 0, 0, 0, \frac{48}{1093}\sqrt{15}e^{12}, \frac{16}{1093}\sqrt{291}e^{14} + \frac{24}{1093}\sqrt{133}e^{23},$ $\frac{16}{1093}\sqrt{78}e^{13} + \frac{8}{1093}\sqrt{939}e^{45}, \frac{8}{1093}\sqrt{831}e^{16}$	$(-\frac{64}{1093}, \frac{76}{1093}, \frac{44}{1093}, \frac{184}{1093}, -\frac{204}{1093}, \frac{12}{1093}, \frac{120}{1093}, -\frac{20}{1093}, -\frac{52}{1093})$ $+ \frac{24}{1093}\sqrt{146}e^3 \otimes e_9 + \frac{24}{1093}\sqrt{182}e^2 \otimes e_8$	{2679, 3578}
941:73	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{1695}e^{12}, \frac{2}{181}\sqrt{9266}e^{14} + \frac{2}{181}\sqrt{1695}e^{23},$ $\frac{2}{181}\sqrt{565}e^{13} + \frac{4}{181}\sqrt{565}e^{45}, \frac{4}{181}\sqrt{565}e^{16}$	$(-\frac{25}{181}, \frac{57}{181}, \frac{37}{181}, \frac{119}{181}, -\frac{107}{181}, \frac{32}{181}, \frac{94}{181}, \frac{12}{181}, \frac{7}{181})$ $+ \frac{2}{181}\sqrt{17402}e^4 \otimes e_5$	{1235679, 134, 259, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:73	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{11}e^{12}, \frac{1}{43}\sqrt{759}e^{14} + \frac{33}{43}e^{23},$ $\frac{1}{43}\sqrt{429}e^{13} + \frac{2}{43}\sqrt{66}e^{45}, \frac{4}{43}\sqrt{66}e^{16}$	$(-\frac{5}{86}, -\frac{8}{43}, \frac{20}{43}, \frac{29}{86}, \frac{3}{43}, -\frac{21}{86}, \frac{12}{43}, \frac{35}{86}, -\frac{13}{43})$ $+\frac{6}{43}\sqrt{66}e^3 \otimes e_9$	{1236, 1589, 2348, 4569}
941:73	$0, 0, 0, 0, 0, \frac{6}{623}\sqrt{3763}e^{12}, \frac{2}{89}\sqrt{795}e^{14} + \frac{6}{623}\sqrt{3763}e^{23},$ $\frac{8}{623}\sqrt{159}e^{13} + \frac{4}{623}\sqrt{11289}e^{45}, \frac{2}{623}\sqrt{17490}e^{16}$	$(\frac{1}{89}, \frac{197}{623}, -\frac{128}{623}, \frac{62}{623}, -\frac{183}{623}, \frac{204}{623}, \frac{69}{623}, -\frac{121}{623}, \frac{211}{623})$ $+\frac{6}{623}\sqrt{9222}e^2 \otimes e_8$	{1239, 1568, 2679, 3578}
941:73	$0, 0, 0, 0, 0, \frac{57}{724}\sqrt{47}e^{12}, \frac{19}{724}\sqrt{430}e^{14} + \frac{57}{724}\sqrt{47}e^{23},$ $\frac{19}{362}\sqrt{10}e^{13} + \frac{19}{362}\sqrt{141}e^{45}, \frac{19}{724}\sqrt{202}e^{16}$	$(-\frac{19}{1448}, \frac{57}{181}, -\frac{247}{1448}, \frac{57}{362}, -\frac{247}{724}, \frac{437}{1448}, \frac{209}{1448}, -\frac{133}{724}, \frac{209}{724})$ $+\frac{19}{724}\sqrt{1086}e^2 \otimes e_8 + \frac{19}{724}\sqrt{146}e^4 \otimes e_5$	{1568, 3578}
941:73	$0, 0, 0, 0, 0, \frac{2}{205}\sqrt{1463}e^{12}, \frac{22}{205}\sqrt{14}e^{14} + \frac{2}{205}\sqrt{1463}e^{23},$ $\frac{42}{205}\sqrt{11}e^{13} + \frac{2}{205}\sqrt{6314}e^{45}, \frac{2}{205}\sqrt{6314}e^{16}$	$(-\frac{5}{41}, -\frac{3}{205}, \frac{79}{205}, \frac{101}{205}, -\frac{47}{205}, -\frac{28}{205}, \frac{76}{205}, \frac{54}{205}, -\frac{53}{205})$ $+\frac{2}{205}\sqrt{13090}e^4 \otimes e_9$	{1279, 1456, 2369, 3457}
941:73	$0, 0, 0, 0, 0, \frac{150}{2021}\sqrt{15}e^{12}, \frac{50}{2021}\sqrt{46}e^{14} + \frac{50}{2021}\sqrt{453}e^{23},$ $\frac{50}{2021}\sqrt{241}e^{13} + \frac{200}{2021}e^{45}, \frac{100}{2021}\sqrt{102}e^{16}$	$(-\frac{225}{2021}, -\frac{75}{2021}, \frac{725}{2021}, \frac{875}{2021}, -\frac{375}{2021}, -\frac{300}{2021}, \frac{650}{2021}, \frac{500}{2021}, -\frac{525}{2021})$ $+\frac{50}{2021}\sqrt{602}e^4 \otimes e_5 + \frac{700}{2021}\sqrt{6}e^3 \otimes e_9$	{1589, 2348}
941:73	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{11}e^{12}, \frac{1}{43}\sqrt{429}e^{14} + \frac{33}{43}e^{23},$ $\frac{1}{43}\sqrt{759}e^{13} + \frac{4}{43}\sqrt{66}e^{45}, \frac{2}{43}\sqrt{66}e^{16}$	$(\frac{19}{86}, -\frac{8}{43}, \frac{2}{43}, -\frac{31}{86}, \frac{27}{43}, \frac{3}{86}, -\frac{6}{43}, \frac{23}{86}, \frac{11}{43})$ $+\frac{6}{43}\sqrt{66}e^5 \otimes e_7$	{1267, 1459, 2478, 5689}
941:74	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{2}{41}\sqrt{14}e^{13} + \frac{1}{41}\sqrt{14}e^{24},$ $\frac{2}{41}\sqrt{42}e^{15} + \frac{1}{41}\sqrt{182}e^{34}, \frac{1}{41}\sqrt{266}e^{16}$	$(\frac{6}{41}, -\frac{9}{41}, -\frac{5}{41}, \frac{10}{41}, -\frac{1}{41}, -\frac{3}{41}, \frac{1}{41}, \frac{5}{41}, \frac{3}{41})$ $+\frac{1}{41}\sqrt{238}e^1 \otimes e_5 + \frac{2}{41}\sqrt{70}e^4 \otimes e_9$	{13467, 25679}
941:74	$0, 0, 0, 0, 0, \frac{7}{221}\sqrt{246}e^{12}, \frac{28}{221}\sqrt{15}e^{13} + \frac{21}{221}\sqrt{34}e^{24},$ $\frac{28}{221}\sqrt{30}e^{15} + \frac{28}{221}\sqrt{39}e^{34}, \frac{21}{221}\sqrt{58}e^{16}$	$(-\frac{56}{221}, \frac{42}{221}, \frac{77}{221}, -\frac{21}{221}, \frac{112}{221}, -\frac{14}{221}, \frac{21}{221}, \frac{56}{221}, -\frac{70}{221})$ $+\frac{63}{221}\sqrt{14}e^3 \otimes e_9$	{1245789, 1346, 2569, 378}
941:74	$0, 0, 0, 0, 0, \frac{28}{221}\sqrt{39}e^{12}, \frac{28}{221}\sqrt{15}e^{13} + \frac{21}{221}\sqrt{34}e^{24},$ $\frac{28}{221}\sqrt{30}e^{15} + \frac{7}{221}\sqrt{246}e^{34}, \frac{21}{221}\sqrt{58}e^{16}$	$(\frac{70}{221}, -\frac{21}{221}, -\frac{49}{221}, \frac{42}{221}, -\frac{77}{221}, \frac{49}{221}, \frac{21}{221}, -\frac{7}{221}, \frac{7}{13})$ $+\frac{63}{221}\sqrt{14}e^1 \otimes e_5$	{1346, 167, 2345679, 2569}
941:74	$0, 0, 0, 0, 0, \frac{7}{23}\sqrt{3}e^{12}, \frac{1}{23}\sqrt{105}e^{13} + \frac{2}{23}\sqrt{42}e^{24},$ $\frac{3}{23}\sqrt{21}e^{15} + \frac{2}{23}\sqrt{35}e^{34}, \frac{2}{23}\sqrt{21}e^{16}$	$(-\frac{3}{23}, 0, \frac{4}{23}, \frac{8}{23}, -\frac{3}{23}, \frac{1}{23}, \frac{5}{23}, -\frac{6}{23})$ $+\frac{1}{23}\sqrt{21}e^4 \otimes e_9 + \frac{2}{23}\sqrt{70}e^5 \otimes e_7$	{126789, 2379}
941:74	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{154}e^{12}, \frac{2}{47}\sqrt{21}e^{13} + \frac{7}{47}\sqrt{6}e^{24},$ $\frac{4}{47}\sqrt{21}e^{15} + \frac{1}{47}\sqrt{154}e^{34}, \frac{3}{47}\sqrt{14}e^{16}$	$(-\frac{7}{47}, \frac{8}{47}, \frac{8}{47}, -\frac{7}{47}, \frac{8}{47}, \frac{1}{47}, \frac{1}{47}, \frac{1}{47}, -\frac{6}{47})$ $+\frac{1}{47}\sqrt{210}e^2 \otimes e_8 + \frac{1}{47}\sqrt{406}e^5 \otimes e_7$	{2379, 568}
941:74	$0, 0, 0, 0, 0, \frac{28}{93}e^{12}, \frac{14}{93}\sqrt{15}e^{13} + \frac{14}{93}\sqrt{13}e^{24},$ $\frac{14}{93}\sqrt{30}e^{15} + \frac{28}{93}e^{34}, \frac{14}{93}\sqrt{26}e^{16}$	$(-\frac{7}{31}, \frac{7}{93}, \frac{35}{93}, \frac{7}{31}, \frac{21}{93}, -\frac{14}{93}, \frac{14}{93}, \frac{14}{31}, -\frac{35}{93})$ $-\frac{14}{93}\sqrt{77}e^5 \otimes e_9$	{123567, 12456, 134789, 189, 23458, 2578, 369, 4679}
941:74	$0, 0, 0, 0, 0, \frac{28}{93}e^{12}, \frac{14}{93}\sqrt{15}e^{13} + \frac{14}{93}\sqrt{13}e^{24},$ $\frac{14}{93}\sqrt{30}e^{15} + \frac{28}{93}e^{34}, \frac{14}{93}\sqrt{26}e^{16}$	$(-\frac{7}{31}, \frac{7}{93}, \frac{35}{93}, \frac{7}{31}, \frac{21}{93}, -\frac{14}{93}, \frac{14}{93}, \frac{14}{31}, -\frac{35}{93})$ $+\frac{14}{93}\sqrt{77}e^5 \otimes e_9$	{123567, 12456, 134789, 189, 23458, 2578, 369, 4679}
941:74	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{609}e^{12}, \frac{1}{215}\sqrt{1043}e^{13} + \frac{28}{215}e^{24},$ $\frac{1}{215}\sqrt{7}e^{15} + \frac{2}{215}\sqrt{273}e^{34}, \frac{2}{215}\sqrt{231}e^{16}$	$(-\frac{3}{43}, \frac{12}{215}, \frac{16}{215}, -\frac{11}{215}, \frac{4}{43}, -\frac{3}{215}, \frac{1}{215}, \frac{1}{43}, -\frac{18}{215})$ $+\frac{2}{215}\sqrt{322}e^2 \otimes e_8 + \frac{3}{215}\sqrt{161}e^4 \otimes e_9$	{25679, 478}
941:74	$0, 0, 0, 0, 0, \frac{14}{641}\sqrt{646}e^{12}, \frac{126}{641}\sqrt{6}e^{13} + \frac{28}{641}\sqrt{174}e^{24},$ $\frac{14}{641}\sqrt{834}e^{15} + \frac{14}{641}\sqrt{646}e^{34}, \frac{42}{641}\sqrt{46}e^{16}$	$(-\frac{91}{641}, \frac{14}{641}, \frac{119}{641}, \frac{14}{641}, \frac{224}{641}, -\frac{77}{641}, \frac{28}{641}, \frac{133}{641}, -\frac{168}{641})$ $+\frac{28}{641}\sqrt{301}e^5 \otimes e_7$	{126789, 135, 2379, 568}
941:74	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{714}e^{12}, \frac{4}{41}\sqrt{21}e^{13} + \frac{1}{41}\sqrt{798}e^{24},$ $\frac{12}{41}\sqrt{7}e^{15} + \frac{8}{41}\sqrt{14}e^{34}, \frac{3}{41}\sqrt{70}e^{16}$	$(0, -\frac{6}{41}, \frac{1}{41}, \frac{7}{41}, \frac{8}{41}, -\frac{6}{41}, \frac{1}{41}, \frac{8}{41}, -\frac{6}{41})$ $+\frac{1}{41}\sqrt{546}e^3 \otimes e_9 + \frac{4}{41}\sqrt{70}e^5 \otimes e_7$	{2379, 568}
941:74	$0, 0, 0, 0, 0, \frac{4}{143}\sqrt{105}e^{12}, \frac{6}{143}\sqrt{91}e^{13} + \frac{6}{143}\sqrt{70}e^{24},$ $\frac{4}{143}\sqrt{210}e^{15} + \frac{4}{143}\sqrt{105}e^{34}, \frac{2}{143}\sqrt{462}e^{16}$	$(-\frac{28}{143}, \frac{41}{143}, \frac{34}{143}, -\frac{35}{143}, \frac{27}{143}, -\frac{1}{143}, \frac{6}{143}, -\frac{1}{143}, -\frac{15}{143})$ $-\frac{4}{143}\sqrt{273}e^5 \otimes e_9 + \frac{4}{143}\sqrt{399}e^2 \otimes e_8$	{23469, 2679, 358, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:74	$0, 0, 0, 0, 0, \frac{4}{143}\sqrt{105}e^{12}, \frac{6}{143}\sqrt{91}e^{13} + \frac{6}{143}\sqrt{70}e^{24},$ $\frac{4}{143}\sqrt{210}e^{15} + \frac{4}{143}\sqrt{105}e^{34}, \frac{2}{143}\sqrt{462}e^{16}$	$(-\frac{28}{143}, \frac{41}{143}, \frac{34}{143}, -\frac{35}{143}, \frac{27}{143}, \frac{1}{11}, \frac{6}{143}, -\frac{1}{143}, -\frac{15}{143})$ $+ \frac{4}{143}\sqrt{273}e^5 \otimes e_9 + \frac{4}{143}\sqrt{399}e^2 \otimes e_8$	{23469, 2679, 358, 4578}
941:74	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{2730}e^{12}, \frac{4}{103}\sqrt{35}e^{13} + \frac{1}{103}\sqrt{70}e^{24},$ $\frac{7}{103}\sqrt{10}e^{15} + \frac{4}{103}\sqrt{105}e^{34}, \frac{4}{103}\sqrt{105}e^{16}$	$(\frac{9}{103}, \frac{18}{103}, -\frac{4}{103}, -\frac{13}{103}, -\frac{26}{103}, \frac{27}{103}, \frac{5}{103}, -\frac{17}{103}, \frac{36}{103})$ $+ \frac{15}{103}\sqrt{14}e^1 \otimes e_5 + \frac{2}{103}\sqrt{805}e^2 \otimes e_8$	{234569, 25679}
941:74	$0, 0, 0, 0, 0, \frac{84}{767}\sqrt{30}e^{12}, \frac{14}{767}\sqrt{1235}e^{13} + \frac{14}{767}\sqrt{970}e^{24},$ $\frac{28}{767}\sqrt{215}e^{15} + \frac{84}{767}\sqrt{30}e^{34}, \frac{14}{767}\sqrt{330}e^{16}$	$(-\frac{84}{767}, \frac{357}{767}, \frac{154}{767}, -\frac{287}{767}, -\frac{49}{767}, \frac{21}{59}, \frac{70}{767}, -\frac{133}{767}, \frac{189}{767})$ $+ \frac{28}{767}\sqrt{805}e^2 \otimes e_8$	{23469, 2679, 358, 4578}
941:74	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{105}e^{12}, \frac{4}{103}\sqrt{35}e^{13} + \frac{1}{103}\sqrt{70}e^{24},$ $\frac{7}{103}\sqrt{10}e^{15} + \frac{1}{103}\sqrt{2730}e^{34}, \frac{4}{103}\sqrt{105}e^{16}$	$(-\frac{21}{103}, \frac{33}{103}, \frac{26}{103}, -\frac{28}{103}, \frac{19}{103}, \frac{12}{103}, \frac{5}{103}, -\frac{2}{103}, -\frac{9}{103})$ $+ \frac{15}{103}\sqrt{14}e^3 \otimes e_9 + \frac{2}{103}\sqrt{805}e^2 \otimes e_8$	{25679, 38}
941:74	$0, 0, 0, 0, 0, \frac{7}{283}\sqrt{237}e^{12}, \frac{7}{283}\sqrt{555}e^{13} + \frac{84}{283}\sqrt{3}e^{24},$ $\frac{7}{283}\sqrt{339}e^{15} + \frac{84}{283}\sqrt{5}e^{34}, \frac{84}{283}\sqrt{6}e^{16}$	$(\frac{7}{283}, -\frac{70}{283}, \frac{14}{283}, \frac{91}{283}, \frac{98}{283}, -\frac{63}{283}, \frac{21}{283}, \frac{105}{283}, -\frac{56}{283})$ $+ \frac{21}{283}\sqrt{161}e^4 \otimes e_9$	{1235789, 13467, 25679, 478}
941:75	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{11}e^{12}, \frac{2}{31}\sqrt{110}e^{14} + \frac{2}{31}\sqrt{55}e^{23},$ $\frac{2}{31}\sqrt{33}e^{13} + \frac{4}{31}\sqrt{22}e^{45}, \frac{4}{31}\sqrt{33}e^{26}$	$(-\frac{3}{31}, -\frac{3}{31}, \frac{13}{31}, \frac{13}{31}, -\frac{3}{31}, -\frac{6}{31}, \frac{10}{31}, \frac{10}{31}, -\frac{9}{31})$ $+ \frac{2}{31}\sqrt{286}e^4 \otimes e_9$	{1235789, 1679, 234567, 478}
941:75	$0, 0, 0, 0, 0, \frac{2}{3033}\sqrt{578987}e^{12}, \frac{2}{3033}\sqrt{521265}e^{14} + \frac{2}{3033}\sqrt{337497}e^{23},$ $\frac{4}{1011}\sqrt{6479}e^{13} + \frac{2}{3033}\sqrt{691486}e^{45}, \frac{4}{3033}\sqrt{120745}e^{26}$	$(-\frac{23}{3033}, \frac{73}{337}, -\frac{166}{1011}, \frac{182}{3033}, -\frac{703}{3033}, \frac{634}{3033}, \frac{53}{1011}, -\frac{521}{3033}, \frac{1291}{3033})$ $+ \frac{2}{3033}\sqrt{1509018}e^2 \otimes e_8$	{1239, 15689, 267, 3578}
941:75	$0, 0, 0, 0, 0, \frac{31}{1621}\sqrt{309}e^{12}, \frac{62}{1621}\sqrt{95}e^{14} + \frac{31}{1621}\sqrt{246}e^{23},$ $\frac{31}{1621}\sqrt{667}e^{13} + \frac{31}{1621}\sqrt{227}e^{45}, \frac{31}{1621}\sqrt{615}e^{26}$	$(-\frac{186}{1621}, -\frac{93}{1621}, \frac{589}{1621}, \frac{682}{1621}, -\frac{279}{1621}, -\frac{279}{1621}, \frac{496}{1621}, \frac{403}{1621}, -\frac{372}{1621})$ $+ \frac{155}{1621}\sqrt{69}e^3 \otimes e_9 - \frac{31}{1621}\sqrt{1151}e^4 \otimes e_5$	{12346, 1357, 2479, 569}
941:75	$0, 0, 0, 0, 0, \frac{31}{1621}\sqrt{309}e^{12}, \frac{62}{1621}\sqrt{95}e^{14} + \frac{31}{1621}\sqrt{246}e^{23},$ $\frac{31}{1621}\sqrt{667}e^{13} + \frac{31}{1621}\sqrt{227}e^{45}, \frac{31}{1621}\sqrt{615}e^{26}$	$(-\frac{186}{1621}, -\frac{93}{1621}, \frac{589}{1621}, \frac{682}{1621}, -\frac{279}{1621}, -\frac{279}{1621}, \frac{496}{1621}, \frac{403}{1621}, -\frac{372}{1621})$ $+ \frac{155}{1621}\sqrt{69}e^3 \otimes e_9 + \frac{31}{1621}\sqrt{1151}e^4 \otimes e_5$	{12346, 1357, 2479, 569}
941:75	$0, 0, 0, 0, 0, \frac{2}{195}\sqrt{55}e^{12}, \frac{2}{195}\sqrt{345}e^{14} + \frac{2}{39}\sqrt{33}e^{23},$ $\frac{4}{195}\sqrt{15}e^{13} + \frac{2}{195}\sqrt{1110}e^{45}, \frac{4}{65}\sqrt{10}e^{26}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{3}{13})$ $+ \frac{2}{195}\sqrt{1590}e^2 \otimes e_8 + \frac{4}{195}\sqrt{255}e^5 \otimes e_7$	{1346789, 23456}
941:75	$0, 0, 0, 0, 0, \frac{54}{6317}\sqrt{641}e^{12}, \frac{27}{6317}\sqrt{610}e^{14} + \frac{135}{6317}\sqrt{22}e^{23},$ $\frac{54}{6317}\sqrt{107}e^{13} + \frac{108}{6317}\sqrt{267}e^{45}, \frac{54}{6317}\sqrt{1007}e^{26}$	$(-\frac{486}{6317}, \frac{459}{6317}, \frac{216}{6317}, \frac{1161}{6317}, -\frac{1431}{6317}, -\frac{27}{6317}, \frac{675}{6317}, -\frac{270}{6317}, \frac{432}{6317})$ $+ \frac{135}{6317}\sqrt{266}e^2 \otimes e_8 + \frac{27}{6317}\sqrt{4574}e^4 \otimes e_9$	{1239, 15689}
941:75	$0, 0, 0, 0, 0, \frac{3}{37}\sqrt{34}e^{12}, \frac{1}{37}\sqrt{170}e^{14} + \frac{2}{37}\sqrt{34}e^{23},$ $\frac{1}{37}\sqrt{170}e^{13} + \frac{2}{37}\sqrt{238}e^{45}, \frac{2}{37}\sqrt{221}e^{26}$	$(\frac{7}{37}, -\frac{9}{37}, \frac{11}{37}, -\frac{5}{37}, \frac{23}{37}, -\frac{2}{37}, \frac{2}{37}, \frac{18}{37}, -\frac{11}{37})$ $+ \frac{1}{37}\sqrt{2074}e^5 \otimes e_9$	{1234789, 129, 345, 578}
941:75	$0, 0, 0, 0, 0, \frac{4}{117}\sqrt{70}e^{12}, \frac{4}{117}\sqrt{42}e^{14} + \frac{2}{117}\sqrt{903}e^{23},$ $\frac{7}{117}\sqrt{6}e^{13} + \frac{1}{117}\sqrt{1918}e^{45}, \frac{28}{117}e^{26}$	$(\frac{14}{117}, -\frac{7}{39}, \frac{7}{39}, -\frac{14}{117}, \frac{49}{117}, -\frac{7}{117}, 0, \frac{35}{117}, -\frac{28}{117})$ $+ \frac{1}{117}\sqrt{4746}e^3 \otimes e_9 + \frac{1}{117}\sqrt{5502}e^5 \otimes e_7$	{123456, 137}
941:75	$0, 0, 0, 0, 0, \frac{78}{3989}\sqrt{583}e^{12}, \frac{39}{3989}\sqrt{1870}e^{14} + \frac{78}{3989}\sqrt{330}e^{23},$ $\frac{39}{3989}\sqrt{946}e^{13} + \frac{234}{3989}\sqrt{77}e^{45}, \frac{78}{3989}\sqrt{506}e^{26}$	$(-\frac{117}{3989}, \frac{858}{3989}, -\frac{546}{3989}, \frac{429}{3989}, -\frac{1092}{3989}, \frac{741}{3989}, \frac{312}{3989}, -\frac{663}{3989}, \frac{1599}{3989})$ $+ \frac{39}{3989}\sqrt{586}e^4 \otimes e_5 + \frac{39}{3989}\sqrt{6218}e^2 \otimes e_8$	{15689, 3578}
941:75	$0, 0, 0, 0, 0, \frac{17}{8217}\sqrt{2462}e^{12}, \frac{17}{8217}\sqrt{3774}e^{14} + \frac{34}{8217}\sqrt{807}e^{23},$ $\frac{34}{8217}\sqrt{915}e^{13} + \frac{17}{8217}\sqrt{3538}e^{45}, \frac{17}{8217}\sqrt{4402}e^{26}$	$(-\frac{391}{8217}, \frac{68}{2739}, \frac{34}{913}, \frac{901}{8217}, -\frac{986}{8217}, -\frac{17}{747}, \frac{170}{2739}, -\frac{85}{8217}, \frac{17}{8217})$ $+ \frac{17}{8217}\sqrt{5934}e^3 \otimes e_9 + \frac{17}{8217}\sqrt{8934}e^2 \otimes e_8$	{15689, 3578}
941:75	$0, 0, 0, 0, 0, \frac{110}{2889}\sqrt{115}e^{12}, \frac{4}{2889}\sqrt{72105}e^{14} + \frac{2}{2889}\sqrt{686895}e^{23},$ $\frac{2}{963}\sqrt{137885}e^{13} + \frac{2}{2889}\sqrt{118910}e^{45}, \frac{46}{2889}\sqrt{1870}e^{26}$	$(-\frac{7}{2889}, -\frac{193}{963}, \frac{455}{963}, \frac{793}{2889}, \frac{565}{2889}, -\frac{586}{2889}, \frac{262}{963}, \frac{1358}{2889}, -\frac{1165}{2889})$ $+ \frac{2}{2889}\sqrt{3058770}e^3 \otimes e_9$	{12356, 1347, 2579, 469}
941:75	$0, 0, 0, 0, 0, \frac{39}{7433}\sqrt{514}e^{12}, \frac{234}{7433}\sqrt{110}e^{14} + \frac{39}{7433}\sqrt{1730}e^{23},$ $\frac{39}{7433}\sqrt{2798}e^{13} + \frac{78}{7433}\sqrt{1142}e^{45}, \frac{39}{7433}\sqrt{2162}e^{26}$	$(\frac{351}{7433}, -\frac{1014}{7433}, \frac{1209}{7433}, -\frac{156}{7433}, \frac{1716}{7433}, -\frac{663}{7433}, \frac{195}{7433}, \frac{1560}{7433}, -\frac{1677}{7433})$ $+ \frac{195}{7433}\sqrt{266}e^5 \otimes e_7 + \frac{39}{7433}\sqrt{6866}e^4 \otimes e_9$	{145, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:75	$0, 0, 0, 0, 0, \frac{3}{1114}\sqrt{1086}e^{12}, \frac{3}{1114}\sqrt{1010}e^{14} + \frac{3}{557}\sqrt{103}e^{23},$ $\frac{3}{1114}\sqrt{210}e^{13} + \frac{3}{557}\sqrt{438}e^{45}, \frac{3}{557}\sqrt{337}e^{26}$	$(\frac{18}{557}, \frac{3}{557}, -\frac{24}{557}, -\frac{39}{557}, \frac{33}{557}, \frac{21}{557}, -\frac{21}{557}, -\frac{6}{557}, \frac{24}{557})$ $+ \frac{3}{1114}\sqrt{1586}e^5 \otimes e_9 + \frac{3}{557}\sqrt{610}e^2 \otimes e_8$	{1239, 3578}
941:75	$0, 0, 0, 0, 0, \frac{2}{2817}\sqrt{202147}e^{12}, \frac{2}{2817}\sqrt{561039}e^{14} + \frac{2}{2817}\sqrt{1229097}e^{23},$ $\frac{4}{939}\sqrt{20539}e^{13} + \frac{2}{2817}\sqrt{1074514}e^{45}, \frac{22}{2817}\sqrt{2162}e^{26}$	$(\frac{763}{2817}, -\frac{33}{313}, -\frac{14}{939}, -\frac{1102}{2817}, \frac{1823}{2817}, \frac{466}{2817}, -\frac{113}{939}, \frac{721}{2817}, \frac{169}{2817})$ $+ \frac{2}{2817}\sqrt{2600886}e^5 \otimes e_7$	{12679, 1459, 2478, 568}
941:75	$0, 0, 0, 0, 0, \frac{2}{2777}\sqrt{224589}e^{12}, \frac{2}{2777}\sqrt{1967330}e^{14} + \frac{2}{2777}\sqrt{433509}e^{23},$ $\frac{2}{2777}\sqrt{40043}e^{13} + \frac{4}{2777}\sqrt{92273}e^{45}, \frac{8}{2777}\sqrt{26115}e^{26}$	$(-\frac{507}{2777}, \frac{609}{2777}, \frac{743}{2777}, \frac{1859}{2777}, \frac{1623}{2777}, \frac{102}{2777}, \frac{1352}{2777}, \frac{236}{2777}, \frac{711}{2777})$ $+ \frac{2}{2777}\sqrt{4014746}e^4 \otimes e_5$	{1246, 157, 23479, 3569}
941:76	$0, 0, 0, 0, 0, \frac{6}{2453}\sqrt{124057}e^{12}, \frac{6}{2453}\sqrt{107027}e^{13} + \frac{6}{2453}\sqrt{86591}e^{24},$ $\frac{24}{2453}\sqrt{4454}e^{15} + \frac{12}{2453}\sqrt{8515}e^{34}, \frac{18}{2453}\sqrt{5109}e^{26}$	$(\frac{1233}{2453}, -\frac{245}{2453}, -\frac{685}{2453}, \frac{793}{2453}, -\frac{1125}{2453}, \frac{988}{2453}, \frac{548}{2453}, \frac{108}{2453}, \frac{743}{2453})$ $+ \frac{18}{2453}\sqrt{29999}e^1 \otimes e_5$	{13469, 1679, 234567, 256}
941:76	$0, 0, 0, 0, 0, \frac{26}{419}\sqrt{21}e^{12}, \frac{26}{419}\sqrt{66}e^{13} + \frac{26}{419}\sqrt{3}e^{24},$ $\frac{13}{419}\sqrt{66}e^{15} + \frac{26}{419}\sqrt{13}e^{34}, \frac{117}{419}\sqrt{2}e^{26}$	$(-\frac{78}{419}, 0, \frac{91}{419}, \frac{13}{419}, \frac{182}{419}, -\frac{78}{419}, \frac{13}{419}, \frac{104}{419}, -\frac{78}{419})$ $+ \frac{26}{419}\sqrt{102}e^3 \otimes e_9 + \frac{26}{419}\sqrt{85}e^5 \otimes e_7$	{123456, 24589}
941:76	$0, 0, 0, 0, 0, \frac{6}{1231}\sqrt{5959}e^{12}, \frac{6}{1231}\sqrt{13511}e^{13} + \frac{3}{1231}\sqrt{65018}e^{24},$ $\frac{3}{1231}\sqrt{41654}e^{15} + \frac{3}{1231}\sqrt{65962}e^{34}, \frac{18}{1231}\sqrt{1947}e^{26}$	$(-\frac{147}{1231}, -\frac{85}{1231}, \frac{214}{1231}, \frac{152}{1231}, \frac{513}{1231}, -\frac{232}{1231}, \frac{67}{1231}, \frac{366}{1231}, -\frac{317}{1231})$ $+ \frac{9}{1231}\sqrt{14042}e^3 \otimes e_9$	{1245789, 1679, 234567, 378}
941:76	$0, 0, 0, 0, 0, \frac{34}{893}\sqrt{129}e^{12}, \frac{34}{893}\sqrt{57}e^{13} + \frac{102}{893}\sqrt{23}e^{24},$ $\frac{17}{893}\sqrt{642}e^{15} + \frac{85}{893}\sqrt{14}e^{34}, \frac{34}{893}\sqrt{15}e^{26}$	$(-\frac{102}{893}, -\frac{51}{893}, \frac{136}{893}, \frac{85}{893}, \frac{17}{893}, -\frac{153}{893}, \frac{34}{893}, \frac{221}{893}, -\frac{204}{893})$ $+ \frac{17}{893}\sqrt{1138}e^5 \otimes e_7 + \frac{17}{893}\sqrt{498}e^4 \otimes e_9$	{126789, 1359}
941:76	$0, 0, 0, 0, 0, \frac{2}{167}\sqrt{790}e^{12}, \frac{2}{167}\sqrt{395}e^{13} + \frac{2}{167}\sqrt{79}e^{24},$ $\frac{16}{167}\sqrt{79}e^{15} + \frac{2}{167}\sqrt{790}e^{34}, \frac{4}{167}\sqrt{1106}e^{26}$	$(-\frac{21}{167}, -\frac{17}{167}, \frac{43}{167}, \frac{39}{167}, \frac{103}{167}, -\frac{38}{167}, \frac{22}{167}, \frac{82}{167}, -\frac{55}{167})$ $+ \frac{2}{167}\sqrt{10981}e^5 \otimes e_9$	{1357, 145, 239, 2479}
941:76	$0, 0, 0, 0, 0, \frac{8}{373}\sqrt{835}e^{12}, \frac{6}{373}\sqrt{835}e^{13} + \frac{2}{373}\sqrt{18537}e^{24},$ $\frac{1}{373}\sqrt{67134}e^{15} + \frac{8}{373}\sqrt{835}e^{34}, \frac{3}{373}\sqrt{2338}e^{26}$	$(-\frac{98}{373}, \frac{34}{373}, \frac{103}{373}, -\frac{29}{373}, \frac{172}{373}, \frac{64}{373}, \frac{5}{373}, \frac{74}{373}, -\frac{30}{373})$ $+ \frac{2}{373}\sqrt{28390}e^5 \otimes e_7$	{126789, 1359, 237, 568}
941:76	$0, 0, 0, 0, 0, \frac{13}{634}\sqrt{542}e^{12}, \frac{13}{634}\sqrt{258}e^{13} + \frac{13}{317}\sqrt{37}e^{24},$ $\frac{13}{634}\sqrt{354}e^{15} + \frac{13}{317}\sqrt{142}e^{34}, \frac{13}{317}\sqrt{134}e^{26}$	$(\frac{117}{317}, -\frac{78}{317}, -\frac{65}{317}, \frac{130}{317}, -\frac{52}{317}, \frac{39}{317}, \frac{52}{317}, \frac{65}{317}, -\frac{39}{317})$ $+ \frac{13}{317}\sqrt{269}e^1 \otimes e_5 + \frac{13}{634}\sqrt{1154}e^4 \otimes e_9$	{1679, 234567}
941:76	$0, 0, 0, 0, 0, \frac{135}{2347}\sqrt{10}e^{12}, \frac{9}{2347}\sqrt{2730}e^{13} + \frac{18}{2347}\sqrt{249}e^{24},$ $\frac{54}{2347}\sqrt{114}e^{15} + \frac{135}{2347}\sqrt{10}e^{34}, \frac{9}{2347}\sqrt{4362}e^{26}$	$(-\frac{369}{2347}, \frac{252}{2347}, \frac{315}{2347}, -\frac{306}{2347}, \frac{378}{2347}, -\frac{117}{2347}, -\frac{54}{2347}, \frac{9}{2347}, \frac{135}{2347})$ $+ \frac{9}{2347}\sqrt{4962}e^5 \otimes e_9 + \frac{9}{2347}\sqrt{7710}e^2 \otimes e_8$	{358, 4578}
941:76	$0, 0, 0, 0, 0, \frac{74}{4541}\sqrt{771}e^{12}, \frac{37}{4541}\sqrt{746}e^{13} + \frac{148}{4541}\sqrt{5}e^{24},$ $\frac{148}{4541}\sqrt{41}e^{15} + \frac{37}{4541}\sqrt{2238}e^{34}, \frac{148}{4541}\sqrt{138}e^{26}$	$(\frac{333}{4541}, \frac{666}{4541}, -\frac{185}{4541}, -\frac{518}{4541}, -\frac{1036}{4541}, \frac{999}{4541}, \frac{148}{4541}, -\frac{37}{4541}, \frac{1665}{4541})$ $+ \frac{111}{4541}\sqrt{282}e^1 \otimes e_5 + \frac{37}{4541}\sqrt{5422}e^2 \otimes e_8$	{136789, 14689}
941:76	$0, 0, 0, 0, 0, \frac{15}{641}\sqrt{190}e^{12}, \frac{1}{641}\sqrt{79230}e^{13} + \frac{4}{641}\sqrt{6555}e^{24},$ $\frac{1}{641}\sqrt{26790}e^{15} + \frac{2}{641}\sqrt{60990}e^{34}, \frac{6}{641}\sqrt{5795}e^{26}$	$(\frac{167}{641}, -\frac{201}{641}, -\frac{33}{641}, \frac{335}{641}, \frac{135}{641}, -\frac{34}{641}, \frac{134}{641}, \frac{302}{641}, -\frac{235}{641})$ $+ \frac{3}{641}\sqrt{67070}e^4 \otimes e_9$	{1235789, 169, 23456, 478}
941:76	$0, 0, 0, 0, 0, \frac{3}{2021}\sqrt{91}e^{12}, \frac{1}{2021}\sqrt{917}e^{13} + \frac{5}{2021}\sqrt{22}e^{24},$ $\frac{1}{2021}\sqrt{431}e^{15} + \frac{1}{2021}\sqrt{1326}e^{34}, \frac{2}{2021}\sqrt{291}e^{26}$	$(\frac{21}{2021}, -\frac{6}{2021}, -\frac{17}{2021}, \frac{10}{2021}, -\frac{28}{2021}, \frac{15}{2021}, \frac{4}{2021}, -\frac{7}{2021}, \frac{9}{2021})$ $+ \frac{1}{2021}\sqrt{2146}e^2 \otimes e_8 + \frac{39}{2021}e^4 \otimes e_9$	{2346, 4578}
941:76	$0, 0, 0, 0, 0, \frac{8}{1113}\sqrt{843}e^{12}, \frac{8}{1113}\sqrt{139}e^{13} + \frac{8}{1113}\sqrt{1362}e^{24},$ $\frac{48}{371}\sqrt{3}e^{15} + \frac{8}{1113}\sqrt{1077}e^{34}, \frac{8}{371}\sqrt{130}e^{26}$	$(\frac{36}{371}, -\frac{44}{371}, -\frac{20}{371}, \frac{60}{371}, \frac{4}{371}, -\frac{8}{371}, \frac{16}{371}, \frac{40}{371}, -\frac{52}{371})$ $+ \frac{8}{1113}\sqrt{1191}e^1 \otimes e_5 + \frac{8}{1113}\sqrt{1893}e^3 \otimes e_9$	{1679, 234567}
941:76	$0, 0, 0, 0, 0, \frac{260}{1747}\sqrt{2}e^{12}, \frac{26}{1747}\sqrt{465}e^{13} + \frac{52}{1747}\sqrt{87}e^{24},$ $\frac{78}{1747}\sqrt{71}e^{15} + \frac{26}{1747}\sqrt{435}e^{34}, \frac{52}{1747}\sqrt{42}e^{26}$	$(-\frac{52}{1747}, -\frac{169}{1747}, \frac{117}{1747}, \frac{234}{1747}, \frac{403}{1747}, -\frac{221}{1747}, \frac{65}{1747}, \frac{351}{1747}, -\frac{390}{1747})$ $- \frac{26}{1747}\sqrt{705}e^1 \otimes e_9 + \frac{26}{1747}\sqrt{895}e^5 \otimes e_7$	{12678, 135, 2379, 5689}
941:76	$0, 0, 0, 0, 0, \frac{260}{1747}\sqrt{2}e^{12}, \frac{26}{1747}\sqrt{465}e^{13} + \frac{52}{1747}\sqrt{87}e^{24},$ $\frac{78}{1747}\sqrt{71}e^{15} + \frac{26}{1747}\sqrt{435}e^{34}, \frac{52}{1747}\sqrt{42}e^{26}$	$(-\frac{52}{1747}, -\frac{169}{1747}, \frac{117}{1747}, \frac{234}{1747}, \frac{403}{1747}, -\frac{221}{1747}, \frac{65}{1747}, \frac{351}{1747}, -\frac{390}{1747})$ $+ \frac{26}{1747}\sqrt{705}e^1 \otimes e_9 + \frac{26}{1747}\sqrt{895}e^5 \otimes e_7$	{12678, 135, 2379, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:76	$0, 0, 0, 0, 0, \frac{2}{875}\sqrt{52143}e^{12}, \frac{4}{875}\sqrt{11078}e^{13} + \frac{2}{875}\sqrt{19291}e^{24},$ $\frac{2}{875}\sqrt{35717}e^{15} + \frac{2}{875}\sqrt{52143}e^{34}, \frac{2}{875}\sqrt{49278}e^{26}$	$(-\frac{18}{175}, \frac{243}{875}, \frac{97}{875}, -\frac{236}{875}, -\frac{7}{125}, \frac{153}{875}, \frac{1}{125}, -\frac{139}{875}, \frac{396}{875})$ $+ \frac{2}{875}\sqrt{140767}e^2 \otimes e_8$	{2346, 267, 358, 4578}
941:76	$0, 0, 0, 0, 0, \frac{8}{157}\sqrt{10}e^{12}, \frac{8}{157}\sqrt{3}e^{13} + \frac{8}{157}\sqrt{57}e^{24},$ $\frac{16}{157}\sqrt{15}e^{15} + \frac{8}{157}\sqrt{10}e^{34}, \frac{24}{157}e^{26}$	$(-\frac{32}{157}, \frac{28}{157}, \frac{28}{157}, -\frac{32}{157}, \frac{28}{157}, -\frac{4}{157}, -\frac{4}{157}, -\frac{4}{157}, \frac{24}{157})$ $+ \frac{8}{157}\sqrt{69}e^2 \otimes e_8 + \frac{8}{157}\sqrt{73}e^5 \otimes e_7$	{12456, 13478}
941:76	$0, 0, 0, 0, 0, \frac{114}{4469}\sqrt{59}e^{12}, \frac{38}{4469}\sqrt{115}e^{13} + \frac{19}{4469}\sqrt{1574}e^{24},$ $\frac{19}{4469}\sqrt{406}e^{15} + \frac{19}{4469}\sqrt{3486}e^{34}, \frac{76}{4469}\sqrt{219}e^{26}$	$(-\frac{627}{4469}, \frac{399}{4469}, \frac{532}{4469}, -\frac{494}{4469}, \frac{665}{4469}, -\frac{228}{4469}, \frac{95}{4469}, \frac{38}{4469}, \frac{171}{4469})$ $+ \frac{38}{4469}\sqrt{982}e^2 \otimes e_8 + \frac{57}{4469}\sqrt{454}e^3 \otimes e_9$	{234567, 378}
941:77	$0, 0, 0, 0, 0, \frac{16}{2917}\sqrt{5149}e^{12}, \frac{2}{2917}\sqrt{8130}e^{34},$ $\frac{2}{2917}\sqrt{167478}e^{14} + \frac{2}{2917}\sqrt{332246}e^{35}, \frac{2}{2917}\sqrt{365579}e^{13} + \frac{6}{2917}\sqrt{42818}e^{26}$	$(-\frac{80}{2917}, \frac{279}{2917}, \frac{558}{2917}, -\frac{183}{2917}, -\frac{821}{2917}, \frac{199}{2917}, \frac{375}{2917}, -\frac{263}{2917}, \frac{478}{2917})$ $+ \frac{8}{2917}\sqrt{42547}e^2 \otimes e_8$	{1234579, 13689, 2356, 3478}
941:77	$0, 0, 0, 0, 0, \frac{2}{533}\sqrt{3934}e^{12}, \frac{2}{533}\sqrt{44679}e^{34},$ $\frac{4}{533}\sqrt{4215}e^{14} + \frac{2}{533}\sqrt{18827}e^{35}, \frac{2}{533}\sqrt{51423}e^{13} + \frac{2}{533}\sqrt{9554}e^{26}$	$(-\frac{28}{533}, \frac{129}{533}, \frac{258}{533}, -\frac{18}{533}, -\frac{304}{533}, \frac{101}{533}, \frac{240}{533}, -\frac{46}{533}, \frac{230}{533})$ $+ \frac{4}{533}\sqrt{31753}e^3 \otimes e_5$	{12569, 159, 2457, 4567}
941:77	$0, 0, 0, 0, 0, \frac{2}{149}\sqrt{55}e^{12}, \frac{1}{149}\sqrt{66}e^{34}, \frac{2}{149}\sqrt{33}e^{14} + \frac{11}{149}\sqrt{2}e^{35},$ $\frac{2}{149}\sqrt{77}e^{13} + \frac{2}{149}\sqrt{66}e^{26}$	$(\frac{5}{149}, 0, 0, -\frac{6}{149}, -\frac{1}{149}, \frac{5}{149}, -\frac{6}{149}, -\frac{1}{149}, \frac{5}{149})$ $+ \frac{1}{149}\sqrt{186}e^3 \otimes e_5 + \frac{1}{149}\sqrt{430}e^2 \otimes e_8$	{1234579, 2356}
941:77	$0, 0, 0, 0, 0, \frac{54}{4721}\sqrt{1010}e^{12}, \frac{108}{4721}\sqrt{281}e^{34},$ $\frac{27}{4721}\sqrt{1722}e^{14} + \frac{27}{4721}\sqrt{298}e^{35}, \frac{27}{4721}\sqrt{2622}e^{13} + \frac{27}{4721}\sqrt{3466}e^{26}$	$(\frac{675}{4721}, \frac{135}{4721}, \frac{270}{4721}, -\frac{864}{4721}, -\frac{459}{4721}, \frac{810}{4721}, -\frac{594}{4721}, -\frac{189}{4721}, \frac{945}{4721})$ $+ \frac{189}{4721}\sqrt{34}e^3 \otimes e_5 + \frac{27}{4721}\sqrt{6730}e^2 \otimes e_7$	{123489, 378}
941:77	$0, 0, 0, 0, 0, \frac{125}{1481}e^{12}, \frac{50}{1481}\sqrt{215}e^{34}, \frac{25}{1481}\sqrt{293}e^{14} + \frac{150}{1481}\sqrt{3}e^{35},$ $\frac{25}{1481}\sqrt{19}e^{13} + \frac{100}{1481}\sqrt{39}e^{26}$	$(\frac{25}{1481}, -\frac{150}{1481}, -\frac{300}{1481}, \frac{350}{1481}, \frac{675}{1481}, -\frac{125}{1481}, \frac{50}{1481}, \frac{375}{1481}, -\frac{275}{1481})$ $+ \frac{100}{1481}\sqrt{94}e^4 \otimes e_9 + \frac{25}{1481}\sqrt{1109}e^5 \otimes e_7$	{123789, 136789}
941:77	$0, 0, 0, 0, 0, \frac{12}{2869}\sqrt{12685}e^{12}, \frac{16}{2869}\sqrt{6785}e^{34},$ $\frac{2}{2869}\sqrt{161070}e^{14} + \frac{4}{2869}\sqrt{16815}e^{35}, \frac{2}{2869}\sqrt{362555}e^{13} + \frac{2}{2869}\sqrt{402970}e^{26}$	$(\frac{32}{151}, -\frac{45}{2869}, -\frac{90}{2869}, \frac{545}{2869}, \frac{153}{2869}, \frac{563}{2869}, -\frac{635}{2869}, \frac{63}{2869}, \frac{518}{2869})$ $+ \frac{4}{2869}\sqrt{183490}e^2 \otimes e_7$	{123489, 135679, 23456, 378}
941:77	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{8}{221}\sqrt{65}e^{34}, \frac{4}{221}\sqrt{91}e^{14} + \frac{12}{221}\sqrt{26}e^{35},$ $\frac{4}{221}\sqrt{533}e^{13} + \frac{12}{221}\sqrt{39}e^{26}$	$(\frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, 0, \frac{8}{17}, \frac{2}{17}, -\frac{4}{17}, \frac{4}{17}, 0)$ $+ \frac{12}{221}\sqrt{143}e^1 \otimes e_7 + \frac{4}{221}\sqrt{1235}e^5 \otimes e_9$	{245678, 4578}
941:77	$0, 0, 0, 0, 0, \frac{23}{4681}\sqrt{3470}e^{12}, \frac{46}{4681}\sqrt{127}e^{34},$ $\frac{23}{4681}\sqrt{1898}e^{14} + \frac{46}{4681}\sqrt{659}e^{35}, \frac{23}{4681}\sqrt{2946}e^{13} + \frac{69}{4681}\sqrt{382}e^{26}$	$(\frac{345}{4681}, \frac{230}{4681}, \frac{460}{4681}, -\frac{644}{4681}, -\frac{759}{4681}, \frac{575}{4681}, -\frac{184}{4681}, -\frac{299}{4681}, \frac{805}{4681})$ $+ \frac{23}{4681}\sqrt{1994}e^1 \otimes e_7 + \frac{575}{4681}\sqrt{10}e^2 \otimes e_8$	{123459, 23567}
941:77	$0, 0, 0, 0, 0, \frac{2}{947}\sqrt{10790}e^{12}, \frac{2}{947}\sqrt{32785}e^{34},$ $\frac{4}{947}\sqrt{9545}e^{14} + \frac{30}{947}\sqrt{581}e^{35}, \frac{2}{947}\sqrt{71795}e^{13} + \frac{947}{947}\sqrt{107070}e^{26}$	$(\frac{52}{947}, -\frac{125}{947}, -\frac{250}{947}, \frac{330}{947}, \frac{632}{947}, -\frac{73}{947}, \frac{80}{947}, \frac{382}{947}, -\frac{198}{947})$ $+ \frac{4}{947}\sqrt{81755}e^5 \otimes e_9$	{1279, 1679, 25678, 578}
941:77	$0, 0, 0, 0, 0, \frac{1}{931}\sqrt{3766}e^{12}, \frac{2}{931}\sqrt{161}e^{34}, \frac{2}{931}\sqrt{371}e^{14} + \frac{2}{931}\sqrt{1302}e^{35},$ $\frac{1}{133}\sqrt{70}e^{13} + \frac{4}{133}\sqrt{7}e^{26}$	$(-\frac{5}{133}, \frac{1}{133}, \frac{2}{133}, \frac{5}{133}, -\frac{2}{133}, -\frac{4}{133}, \frac{1}{19}, 0, -\frac{3}{133})$ $+ \frac{1}{931}\sqrt{3682}e^5 \otimes e_9 + \frac{1}{931}\sqrt{8022}e^2 \otimes e_8$	{13689, 2356}
941:77	$0, 0, 0, 0, 0, \frac{7}{1657}\sqrt{1153}e^{12}, \frac{14}{1657}\sqrt{74}e^{34},$ $\frac{21}{1657}\sqrt{37}e^{14} + \frac{56}{1657}\sqrt{21}e^{35}, \frac{7}{1657}\sqrt{1347}e^{13} + \frac{28}{1657}\sqrt{79}e^{26}$	$(\frac{105}{1657}, \frac{14}{1657}, \frac{28}{1657}, -\frac{140}{1657}, -\frac{63}{1657}, \frac{119}{1657}, -\frac{112}{1657}, -\frac{35}{1657}, \frac{133}{1657})$ $+ \frac{28}{1657}\sqrt{131}e^2 \otimes e_8 + \frac{119}{1657}\sqrt{869}e^5 \otimes e_7$	{123459, 136789}
941:77	$0, 0, 0, 0, 0, \frac{19}{4613}\sqrt{2410}e^{12}, \frac{19}{4613}\sqrt{546}e^{34},$ $\frac{19}{4613}\sqrt{2226}e^{14} + \frac{38}{4613}\sqrt{557}e^{35}, \frac{38}{4613}\sqrt{659}e^{13} + \frac{19}{4613}\sqrt{3954}e^{26}$	$(-\frac{475}{4613}, \frac{228}{4613}, \frac{456}{4613}, \frac{342}{4613}, -\frac{589}{4613}, -\frac{247}{4613}, \frac{114}{659}, -\frac{19}{659}, -\frac{19}{4613})$ $+ \frac{19}{4613}\sqrt{2406}e^4 \otimes e_9 + \frac{19}{4613}\sqrt{5770}e^2 \otimes e_8$	{136789, 348}
941:77	$0, 0, 0, 0, 0, \frac{108}{1073}e^{12}, \frac{18}{1073}\sqrt{278}e^{34}, \frac{36}{1073}\sqrt{65}e^{14} + \frac{18}{1073}\sqrt{211}e^{35},$ $\frac{18}{1073}\sqrt{190}e^{13} + \frac{36}{1073}\sqrt{35}e^{26}$	$(\frac{72}{1073}, -\frac{81}{1073}, \frac{162}{1073}, \frac{72}{1073}, \frac{306}{1073}, -\frac{9}{1073}, -\frac{90}{1073}, \frac{144}{1073}, -\frac{90}{1073})$ $+ \frac{18}{1073}\sqrt{463}e^1 \otimes e_7 + \frac{18}{1073}\sqrt{515}e^4 \otimes e_9$	{1289, 1689, 24678, 478}
941:77	$0, 0, 0, 0, 0, \frac{108}{1073}e^{12}, \frac{18}{1073}\sqrt{278}e^{34}, \frac{36}{1073}\sqrt{65}e^{14} + \frac{18}{1073}\sqrt{211}e^{35},$ $\frac{18}{1073}\sqrt{190}e^{13} + \frac{36}{1073}\sqrt{35}e^{26}$	$(\frac{72}{1073}, -\frac{81}{1073}, -\frac{162}{1073}, \frac{72}{1073}, \frac{306}{1073}, -\frac{9}{1073}, -\frac{90}{1073}, \frac{144}{1073}, -\frac{90}{1073})$ $+ \frac{18}{1073}\sqrt{463}e^1 \otimes e_7 - \frac{18}{1073}\sqrt{515}e^4 \otimes e_9$	{1289, 1689, 24678, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:77	$0, 0, 0, 0, 0, \frac{6}{2833} \sqrt{30390}e^{12}, \frac{6}{2833} \sqrt{78001}e^{34},$ $\frac{12}{2833} \sqrt{23299}e^{14} + \frac{2}{2833} \sqrt{507513}e^{35}, \frac{2}{2833} \sqrt{432551}e^{13} + \frac{2}{2833} \sqrt{812426}e^{26}$	$(-\frac{540}{2833}, -\frac{87}{2833}, -\frac{174}{2833}, \frac{1312}{2833}, \frac{946}{2833}, -\frac{627}{2833}, \frac{1138}{2833}, \frac{772}{2833}, -\frac{714}{2833})$ $+ \frac{4}{2833} \sqrt{604761}e^4 \otimes e_9$	{12346, 134, 2379, 3679}
941:77	$0, 0, 0, 0, 0, \frac{5}{917} \sqrt{3830}e^{12}, \frac{5}{917} \sqrt{3410}e^{34}, \frac{5}{917} \sqrt{1610}e^{14} + \frac{30}{917} \sqrt{35}e^{35},$ $\frac{10}{917} \sqrt{655}e^{13} + \frac{5}{917} \sqrt{3930}e^{26}$	$(\frac{145}{917}, -\frac{50}{917}, -\frac{100}{917}, -\frac{75}{917}, \frac{170}{917}, \frac{95}{917}, -\frac{25}{131}, \frac{10}{131}, \frac{45}{917})$ $+ \frac{15}{917} \sqrt{690}e^2 \otimes e_7 + \frac{5}{917} \sqrt{1910}e^5 \otimes e_9$	{123489, 23456}
941:77	$0, 0, 0, 0, 0, \frac{2}{573} \sqrt{31330}e^{12}, \frac{2}{573} \sqrt{37837}e^{34},$ $\frac{4}{573} \sqrt{5543}e^{14} + \frac{6}{191} \sqrt{241}e^{35}, \frac{2}{573} \sqrt{21931}e^{13} + \frac{2}{573} \sqrt{482}e^{26}$	$(\frac{260}{573}, -\frac{35}{573}, -\frac{70}{573}, -\frac{152}{573}, \frac{178}{573}, \frac{75}{573}, \frac{191}{191}, -\frac{74}{191}, \frac{36}{191}, \frac{190}{573})$ $+ \frac{4}{573} \sqrt{28679}e^1 \otimes e_7$	{1289, 1689, 24678, 478}
941:77	$0, 0, 0, 0, 0, \frac{3}{179} \sqrt{1273}e^{12}, \frac{6}{179} \sqrt{589}e^{34}, \frac{57}{179} \sqrt{3}e^{14} + \frac{6}{179} \sqrt{589}e^{35},$ $\frac{27}{179} \sqrt{19}e^{13} + \frac{12}{179} \sqrt{57}e^{26}$	$(\frac{67}{179}, -\frac{26}{179}, -\frac{52}{179}, -\frac{2}{179}, \frac{117}{179}, \frac{41}{179}, -\frac{54}{179}, \frac{65}{179}, \frac{15}{179})$ $+ \frac{3}{179} \sqrt{5605}e^5 \otimes e_7$	{23456, 23678, 345, 378}
941:77	$0, 0, 0, 0, 0, \frac{1}{17} \sqrt{15}e^{12}, \frac{7}{17} e^{34}, \frac{1}{17} \sqrt{5}e^{14} + \frac{1}{17} \sqrt{29}e^{35},$ $\frac{1}{17} \sqrt{47}e^{13} + \frac{1}{17} \sqrt{11}e^{26}$	$(\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{4}{17}, -\frac{3}{17}, \frac{4}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{5}{17})$ $- \frac{1}{17} \sqrt{73}e^3 \otimes e_5 + \frac{1}{17} \sqrt{83}e^1 \otimes e_7$	{1234, 1346, 23679, 379}
941:77	$0, 0, 0, 0, 0, \frac{1}{17} \sqrt{15}e^{12}, \frac{7}{17} e^{34}, \frac{1}{17} \sqrt{5}e^{14} + \frac{1}{17} \sqrt{29}e^{35},$ $\frac{1}{17} \sqrt{47}e^{13} + \frac{1}{17} \sqrt{11}e^{26}$	$(\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{4}{17}, -\frac{3}{17}, \frac{4}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{17} \sqrt{73}e^3 \otimes e_5 + \frac{1}{17} \sqrt{83}e^1 \otimes e_7$	{1234, 1346, 23679, 379}
941:77	$0, 0, 0, 0, 0, \frac{13}{5453} \sqrt{3498}e^{12}, \frac{26}{5453} \sqrt{1169}e^{34}, \frac{234}{5453} e^{14} + \frac{26}{5453} \sqrt{57}e^{35},$ $\frac{13}{5453} \sqrt{2570}e^{13} + \frac{26}{5453} \sqrt{1123}e^{26}$	$(\frac{13}{287}, -\frac{195}{5453}, -\frac{390}{5453}, \frac{26}{5453}, \frac{663}{5453}, \frac{52}{5453}, -\frac{52}{779}, \frac{39}{779}, -\frac{143}{5453})$ $+ \frac{13}{5453} \sqrt{3306}e^4 \otimes e_9 + \frac{13}{5453} \sqrt{6502}e^2 \otimes e_7$	{13679, 2346}
941:77	$0, 0, 0, 0, 0, \frac{23}{1961} \sqrt{391}e^{12}, \frac{92}{1961} \sqrt{66}e^{34},$ $\frac{23}{1961} \sqrt{465}e^{14} + \frac{23}{1961} \sqrt{743}e^{35}, \frac{46}{1961} \sqrt{258}e^{13} + \frac{23}{1961} \sqrt{439}e^{26}$	$(-\frac{391}{1961}, \frac{138}{1961}, \frac{276}{1961}, \frac{414}{1961}, -\frac{253}{1961}, -\frac{253}{1961}, \frac{690}{1961}, \frac{23}{1961}, -\frac{115}{1961})$ $+ \frac{1035}{1961} e^4 \otimes e_9 + \frac{253}{1961} \sqrt{13}e^3 \otimes e_5$	{12346, 134, 2379, 3679}
941:77	$0, 0, 0, 0, 0, \frac{23}{1961} \sqrt{391}e^{12}, \frac{92}{1961} \sqrt{66}e^{34},$ $\frac{23}{1961} \sqrt{465}e^{14} + \frac{23}{1961} \sqrt{743}e^{35}, \frac{46}{1961} \sqrt{258}e^{13} + \frac{23}{1961} \sqrt{439}e^{26}$	$(-\frac{391}{1961}, \frac{138}{1961}, \frac{276}{1961}, \frac{414}{1961}, -\frac{253}{1961}, -\frac{253}{1961}, \frac{690}{1961}, \frac{23}{1961}, -\frac{115}{1961})$ $- \frac{1035}{1961} e^4 \otimes e_9 + \frac{253}{1961} \sqrt{13}e^3 \otimes e_5$	{12346, 134, 2379, 3679}
941:78	$0, 0, 0, 0, 0, \frac{98}{4285} \sqrt{326}e^{12}, \frac{49}{4285} \sqrt{394}e^{34},$ $\frac{98}{4285} \sqrt{181}e^{13} + \frac{98}{4285} \sqrt{503}e^{45}, \frac{49}{4285} \sqrt{458}e^{16} + \frac{49}{4285} \sqrt{1730}e^{23}$	$(-\frac{49}{857}, \frac{1666}{4285}, -\frac{98}{857}, \frac{833}{4285}, -\frac{1568}{4285}, \frac{1421}{4285}, \frac{343}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+ \frac{49}{4285} \sqrt{5286}e^2 \otimes e_8 + \frac{98}{4285} \sqrt{551}e^4 \otimes e_5$	{34789, 3589}
941:78	$0, 0, 0, 0, 0, \frac{5}{56} \sqrt{2}e^{12}, \frac{3}{28} \sqrt{2}e^{34}, \frac{1}{28} \sqrt{21}e^{13} + \frac{5}{56} \sqrt{2}e^{45},$ $\frac{1}{28} \sqrt{15}e^{16} + \frac{1}{56} \sqrt{42}e^{23}$	$(-\frac{1}{56}, \frac{1}{14}, -\frac{1}{28}, \frac{1}{14}, -\frac{1}{8}, \frac{3}{56}, \frac{1}{28}, -\frac{3}{56}, \frac{1}{28})$ $+ \frac{1}{28} \sqrt{29}e^4 \otimes e_9 + \frac{1}{56} \sqrt{86}e^2 \otimes e_7$	{129, 14567, 25689, 478}
941:78	$0, 0, 0, 0, 0, \frac{5}{56} \sqrt{2}e^{12}, \frac{3}{28} \sqrt{2}e^{34}, \frac{1}{28} \sqrt{21}e^{13} + \frac{5}{56} \sqrt{2}e^{45},$ $\frac{1}{28} \sqrt{15}e^{16} + \frac{1}{56} \sqrt{42}e^{23}$	$(-\frac{1}{56}, \frac{1}{14}, -\frac{1}{28}, \frac{1}{14}, -\frac{1}{8}, \frac{3}{56}, \frac{1}{28}, -\frac{3}{56}, \frac{1}{28})$ $- \frac{1}{28} \sqrt{29}e^4 \otimes e_9 + \frac{1}{56} \sqrt{86}e^2 \otimes e_7$	{129, 14567, 25689, 478}
941:78	$0, 0, 0, 0, 0, \frac{52}{995} \sqrt{69}e^{12}, \frac{26}{995} \sqrt{410}e^{34}, \frac{26}{995} \sqrt{227}e^{13} + \frac{52}{995} \sqrt{7}e^{45},$ $\frac{26}{995} \sqrt{102}e^{16} + \frac{52}{995} \sqrt{5}e^{23}$	$(-\frac{52}{995}, \frac{65}{199}, -\frac{104}{995}, \frac{91}{995}, -\frac{247}{995}, \frac{273}{995}, -\frac{13}{995}, -\frac{156}{995}, \frac{221}{995})$ $+ \frac{26}{995} \sqrt{374}e^4 \otimes e_5 + \frac{78}{995} \sqrt{58}e^2 \otimes e_7$	{1259, 1467}
941:78	$0, 0, 0, 0, 0, \frac{2}{25} \sqrt{13}e^{12}, \frac{2}{25} \sqrt{6}e^{34}, \frac{2}{25} \sqrt{23}e^{13} + \frac{2}{25} \sqrt{21}e^{45},$ $\frac{8}{25} e^{16} + \frac{2}{25} \sqrt{21}e^{23}$	$(\frac{2}{75}, \frac{1}{25}, \frac{4}{75}, -\frac{19}{75}, \frac{1}{3}, \frac{1}{15}, -\frac{1}{5}, \frac{2}{25}, \frac{7}{75})$ $+ \frac{2}{25} \sqrt{29}e^2 \otimes e_7 + \frac{2}{25} \sqrt{38}e^5 \otimes e_9$	{129, 14567}
941:78	$0, 0, 0, 0, 0, \frac{5}{1026} \sqrt{498}e^{12}, \frac{5}{1026} \sqrt{1254}e^{34}, \frac{5}{171} \sqrt{41}e^{13} + \frac{5}{1026} \sqrt{1442}e^{45},$ $\frac{5}{513} \sqrt{313}e^{16} + \frac{5}{513} \sqrt{94}e^{23}$	$(\frac{5}{171}, -\frac{20}{171}, \frac{10}{171}, -\frac{5}{513}, \frac{50}{513}, -\frac{5}{57}, \frac{25}{513}, \frac{5}{57}, -\frac{10}{171})$ $+ \frac{5}{1026} \sqrt{2262}e^4 \otimes e_9 + \frac{5}{513} \sqrt{362}e^5 \otimes e_7$	{25689, 478}
941:78	$0, 0, 0, 0, 0, \frac{1}{427} \sqrt{40602}e^{12}, \frac{2}{427} \sqrt{11211}e^{34},$ $\frac{1}{427} \sqrt{4242}e^{13} + \frac{3}{427} \sqrt{1414}e^{45}, \frac{1}{427} \sqrt{40602}e^{16} + \frac{3}{427} \sqrt{39794}e^{23}$	$(\frac{4}{427}, \frac{50}{427}, \frac{8}{427}, -\frac{15}{61}, \frac{117}{427}, \frac{54}{427}, -\frac{97}{427}, \frac{12}{427}, \frac{58}{427})$ $+ \frac{1}{427} \sqrt{75346}e^1 \otimes e_7$	{12349, 1346, 236789, 378}
941:78	$0, 0, 0, 0, 0, \frac{57}{1631} \sqrt{142}e^{12}, \frac{38}{1631} \sqrt{330}e^{34},$ $\frac{19}{1631} \sqrt{42}e^{13} + \frac{57}{1631} \sqrt{14}e^{45}, \frac{19}{1631} \sqrt{1446}e^{16} + \frac{19}{1631} \sqrt{1034}e^{23}$	$(\frac{38}{1631}, \frac{76}{1631}, \frac{76}{1631}, -\frac{57}{233}, \frac{513}{1631}, \frac{114}{1631}, -\frac{323}{1631}, \frac{114}{1631}, \frac{152}{1631})$ $+ \frac{114}{1631} \sqrt{14}e^5 \otimes e_9 + \frac{19}{1631} \sqrt{2362}e^1 \otimes e_7$	{134568, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:78	$0, 0, 0, 0, 0, \frac{60}{2383}\sqrt{37}e^{12}, \frac{5}{2383}\sqrt{7302}e^{34}, \frac{30}{2383}e^{13} + \frac{5}{2383}\sqrt{2046}e^{45},$ $\frac{60}{2383}\sqrt{37}e^{16} + \frac{15}{2383}\sqrt{622}e^{23}$	$(-\frac{45}{2383}, \frac{245}{2383}, -\frac{90}{2383}, -\frac{30}{2383}, -\frac{105}{2383}, \frac{200}{2383}, -\frac{120}{2383}, -\frac{135}{2383}, \frac{155}{2383})$ $+\frac{10}{2383}\sqrt{969}e^4 \otimes e_5 + \frac{5}{2383}\sqrt{9222}e^1 \otimes e_7$	{12349, 1346}
941:78	$0, 0, 0, 0, 0, \frac{15}{164}\sqrt{70}e^{12}, \frac{3}{82}\sqrt{427}e^{34}, \frac{3}{82}\sqrt{329}e^{13} + \frac{9}{164}\sqrt{14}e^{45},$ $\frac{3}{82}\sqrt{119}e^{16} + \frac{3}{164}\sqrt{658}e^{23}$	$(-\frac{5}{164}, \frac{39}{82}, -\frac{5}{82}, -\frac{19}{82}, \frac{23}{164}, \frac{73}{164}, -\frac{12}{41}, -\frac{15}{164}, \frac{17}{41})$ $+\frac{21}{164}\sqrt{78}e^2 \otimes e_7$	{129, 14567, 25689, 478}
941:78	$0, 0, 0, 0, 0, \frac{6}{2561}\sqrt{5530}e^{12}, \frac{6}{2561}\sqrt{158}e^{34},$ $\frac{6}{2561}\sqrt{61067}e^{13} + \frac{36}{2561}\sqrt{2686}e^{45}, \frac{120}{2561}\sqrt{158}e^{16} + \frac{6}{2561}\sqrt{73786}e^{23}$	$(\frac{274}{2561}, -\frac{633}{2561}, \frac{548}{2561}, -\frac{515}{2561}, \frac{1337}{2561}, -\frac{359}{2561}, \frac{33}{2561}, \frac{822}{2561}, -\frac{85}{2561})$ $+\frac{6}{2561}\sqrt{173010}e^5 \otimes e_9$	{1279, 1456, 24689, 578}
941:78	$0, 0, 0, 0, 0, \frac{63}{317}e^{12}, \frac{7}{317}\sqrt{29}e^{34}, \frac{7}{317}\sqrt{106}e^{13} + \frac{7}{317}\sqrt{237}e^{45},$ $\frac{42}{317}\sqrt{3}e^{16} + \frac{7}{317}\sqrt{174}e^{23}$	$(-\frac{7}{317}, \frac{28}{317}, -\frac{14}{317}, \frac{63}{317}, -\frac{84}{317}, \frac{21}{317}, \frac{49}{317}, -\frac{21}{317}, \frac{14}{317})$ $+\frac{77}{317}\sqrt{2}e^2 \otimes e_8 + \frac{7}{317}\sqrt{323}e^4 \otimes e_9$	{129, 478}
941:78	$0, 0, 0, 0, 0, \frac{4}{879}\sqrt{16169}e^{12}, \frac{20}{879}\sqrt{1311}e^{34},$ $\frac{46}{293}\sqrt{19}e^{13} + \frac{2}{879}\sqrt{114494}e^{45}, \frac{4}{879}\sqrt{16169}e^{16} + \frac{76}{879}\sqrt{23}e^{23}$	$(\frac{24}{293}, \frac{89}{879}, \frac{48}{293}, -\frac{401}{879}, \frac{617}{879}, \frac{161}{879}, -\frac{257}{879}, \frac{72}{293}, \frac{233}{879})$ $+\frac{2}{879}\sqrt{313766}e^5 \otimes e_7$	{234569, 23679, 345, 37}
941:78	$0, 0, 0, 0, 0, \frac{6}{847}\sqrt{7126}e^{12}, \frac{2}{847}\sqrt{188330}e^{34},$ $\frac{2}{847}\sqrt{52427}e^{13} + \frac{2}{847}\sqrt{19342}e^{45}, \frac{6}{847}\sqrt{7126}e^{16} + \frac{2}{847}\sqrt{62098}e^{23}$	$(\frac{4}{847}, \frac{149}{847}, \frac{8}{847}, \frac{515}{847}, -\frac{503}{847}, \frac{153}{847}, \frac{523}{847}, \frac{12}{847}, \frac{157}{847})$ $+\frac{2}{847}\sqrt{353246}e^4 \otimes e_5$	{23469, 235679, 34, 357}
941:78	$0, 0, 0, 0, 0, \frac{94}{5661}\sqrt{439}e^{12}, \frac{47}{5661}\sqrt{174}e^{34},$ $\frac{94}{5661}\sqrt{15}e^{13} + \frac{94}{5661}\sqrt{953}e^{45}, \frac{47}{5661}\sqrt{246}e^{16} + \frac{47}{5661}\sqrt{1966}e^{23}$	$(-\frac{47}{1887}, \frac{1786}{5661}, -\frac{94}{1887}, -\frac{1175}{5661}, \frac{752}{5661}, \frac{1645}{5661}, -\frac{1457}{5661}, -\frac{47}{629}, \frac{1504}{5661})$ $+\frac{47}{5661}\sqrt{6006}e^2 \otimes e_8 + \frac{94}{5661}\sqrt{1007}e^5 \otimes e_7$	{34789, 3589}
941:78	$0, 0, 0, 0, 0, \frac{1}{315}\sqrt{966}e^{12}, \frac{2}{315}\sqrt{714}e^{34}, \frac{1}{63}\sqrt{42}e^{13} + \frac{4}{315}\sqrt{357}e^{45},$ $\frac{2}{45}\sqrt{6}e^{16} + \frac{1}{45}\sqrt{102}e^{23}$	$(0, \frac{1}{15}, 0, -\frac{2}{15}, \frac{2}{15}, \frac{1}{15}, -\frac{2}{15}, 0, \frac{1}{15})$ $+\frac{1}{315}\sqrt{5754}e^2 \otimes e_8 + \frac{4}{315}\sqrt{399}e^5 \otimes e_9$	{1279, 578}
941:78	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42}e^{12}, \frac{1}{263}\sqrt{222}e^{34}, \frac{1}{263}\sqrt{78}e^{13} + \frac{6}{263}e^{45},$ $\frac{3}{263}\sqrt{26}e^{16} + \frac{7}{263}\sqrt{2}e^{23}$	$(\frac{2}{263}, -\frac{8}{263}, \frac{4}{263}, -\frac{3}{263}, \frac{9}{263}, \frac{6}{263}, \frac{263}{263}, \frac{6}{263}, -\frac{4}{263})$ $+\frac{1}{263}\sqrt{274}e^1 \otimes e_7 + \frac{3}{263}\sqrt{22}e^4 \otimes e_9$	{13468, 23679}
941:78	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{110}e^{12}, \frac{12}{67}\sqrt{10}e^{34}, \frac{3}{67}\sqrt{110}e^{13} + \frac{12}{67}\sqrt{15}e^{45},$ $\frac{12}{67}\sqrt{5}e^{16} + \frac{3}{67}\sqrt{230}e^{23}$	$(-\frac{4}{67}, \frac{33}{67}, -\frac{8}{67}, \frac{2}{67}, -\frac{14}{67}, \frac{29}{67}, -\frac{6}{67}, -\frac{12}{67}, \frac{25}{67})$ $+\frac{3}{67}\sqrt{570}e^2 \otimes e_8$	{123, 123457, 34789, 3589}
941:78	$0, 0, 0, 0, 0, \frac{24}{167}\sqrt{5}e^{12}, \frac{12}{167}\sqrt{46}e^{34}, \frac{24}{167}\sqrt{17}e^{13} + \frac{36}{167}\sqrt{7}e^{45},$ $\frac{12}{167}\sqrt{67}e^{16} + \frac{12}{167}\sqrt{34}e^{23}$	$(\frac{7}{167}, -\frac{28}{167}, \frac{14}{167}, \frac{58}{167}, -\frac{37}{167}, -\frac{21}{167}, \frac{72}{167}, \frac{21}{167}, -\frac{14}{167})$ $+\frac{12}{167}\sqrt{141}e^4 \otimes e_9$	{129, 14567, 25689, 478}
941:78	$0, 0, 0, 0, 0, \frac{22}{1141}\sqrt{471}e^{12}, \frac{22}{1141}\sqrt{429}e^{34},$ $\frac{44}{1141}\sqrt{21}e^{13} + \frac{66}{1141}\sqrt{7}e^{45}, \frac{44}{1141}\sqrt{102}e^{16} + \frac{44}{1141}\sqrt{89}e^{23}$	$(-\frac{11}{1141}, \frac{209}{1141}, -\frac{22}{1141}, -\frac{33}{1141}, \frac{198}{1141}, \frac{198}{1141}, -\frac{253}{1141}, -\frac{33}{1141}, \frac{187}{1141})$ $+\frac{22}{1141}\sqrt{817}e^1 \otimes e_7 + \frac{66}{1141}\sqrt{21}e^2 \otimes e_8$	{12349, 378}
941:79	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{21}e^{12}, \frac{1}{49}\sqrt{798}e^{34}, \frac{3}{49}\sqrt{42}e^{14} + \frac{2}{49}\sqrt{105}e^{35},$ $\frac{2}{7}\sqrt{3}e^{16} + \frac{3}{49}\sqrt{42}e^{23}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, 0, \frac{1}{7}, -\frac{1}{7})$ $+\frac{5}{49}\sqrt{42}e^5 \otimes e_7 + \frac{6}{49}\sqrt{21}e^4 \otimes e_9$	{236789, 345}
941:79	$0, 0, 0, 0, 0, \frac{4}{445}\sqrt{3599}e^{12}, \frac{16}{445}\sqrt{354}e^{34}, \frac{4}{445}\sqrt{3658}e^{14} + \frac{4}{445}\sqrt{5487}e^{35},$ $\frac{4}{445}\sqrt{3599}e^{16} + \frac{8}{445}\sqrt{2773}e^{23}$	$(\frac{127}{445}, -\frac{12}{89}, \frac{254}{445}, -\frac{91}{445}, -\frac{218}{445}, \frac{67}{445}, \frac{163}{445}, \frac{36}{445}, \frac{194}{445})$ $+\frac{12}{445}\sqrt{2478}e^3 \otimes e_5$	{1245679, 1457, 259, 56}
941:79	$0, 0, 0, 0, 0, \frac{80}{457}\sqrt{7}e^{12}, \frac{40}{457}\sqrt{21}e^{34}, \frac{5}{457}\sqrt{1834}e^{14} + \frac{40}{457}\sqrt{21}e^{35},$ $\frac{80}{457}\sqrt{7}e^{16} + \frac{5}{457}\sqrt{42}e^{23}$	$(-\frac{70}{457}, \frac{125}{457}, -\frac{140}{457}, \frac{90}{457}, \frac{160}{457}, \frac{55}{457}, -\frac{50}{457}, \frac{20}{457}, -\frac{15}{457})$ $+\frac{5}{457}\sqrt{2814}e^2 \otimes e_7 + \frac{5}{457}\sqrt{2814}e^5 \otimes e_9$	{129, 145678}
941:79	$0, 0, 0, 0, 0, \frac{1}{68}\sqrt{278}e^{12}, \frac{3}{17}\sqrt{2}e^{34}, \frac{1}{68}\sqrt{226}e^{14} + \frac{3}{34}\sqrt{2}e^{35},$ $\frac{1}{34}\sqrt{78}e^{16} + \frac{1}{17}\sqrt{21}e^{23}$	$(\frac{5}{136}, 0, \frac{5}{68}, -\frac{9}{136}, -\frac{7}{68}, \frac{5}{136}, \frac{1}{136}, -\frac{1}{34}, \frac{5}{68})$ $+\frac{1}{68}\sqrt{102}e^2 \otimes e_8 + \frac{1}{68}\sqrt{330}e^1 \otimes e_7$	{123489, 236789}
941:79	$0, 0, 0, 0, 0, \frac{28}{169}\sqrt{3}e^{12}, \frac{14}{845}\sqrt{690}e^{34}, \frac{7}{169}\sqrt{26}e^{14} + \frac{7}{845}\sqrt{1110}e^{35},$ $\frac{7}{845}\sqrt{190}e^{16} + \frac{7}{845}\sqrt{1930}e^{23}$	$(\frac{7}{169}, \frac{35}{169}, \frac{14}{169}, -\frac{28}{169}, -\frac{35}{169}, \frac{42}{169}, -\frac{14}{169}, -\frac{21}{169}, \frac{49}{169})$ $+\frac{7}{845}\sqrt{3570}e^3 \otimes e_5 + \frac{7}{845}\sqrt{4170}e^2 \otimes e_7$	{13679, 2346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:79	$0, 0, 0, 0, 0, \frac{14}{139}\sqrt{6}e^{12}, \frac{21}{139}\sqrt{2}e^{34}, \frac{1}{139}\sqrt{3318}e^{14} + \frac{21}{139}\sqrt{2}e^{35},$ $\frac{14}{139}\sqrt{6}e^{16} + \frac{1}{139}\sqrt{3318}e^{23}$	$(-\frac{14}{139}, \frac{23}{139}, -\frac{28}{139}, \frac{16}{139}, \frac{30}{139}, \frac{9}{139}, -\frac{12}{139}, \frac{2}{139}, -\frac{5}{139})$ $+ \frac{1}{139}\sqrt{2730}e^2 \otimes e_8 + \frac{1}{139}\sqrt{2730}e^4 \otimes e_9$	{2579, 468}
941:79	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{2}{49}\sqrt{105}e^{34}, \frac{3}{49}\sqrt{42}e^{14} + \frac{1}{49}\sqrt{798}e^{35},$ $\frac{4}{49}\sqrt{21}e^{16} + \frac{3}{49}\sqrt{42}e^{23}$	$(-\frac{1}{7}, \frac{19}{49}, -\frac{2}{7}, \frac{5}{49}, \frac{12}{49}, \frac{12}{49}, -\frac{9}{49}, -\frac{2}{49}, \frac{5}{49})$ $+ \frac{5}{49}\sqrt{42}e^5 \otimes e_7 + \frac{6}{49}\sqrt{21}e^2 \otimes e_8$	{234569, 378}
941:79	$0, 0, 0, 0, 0, \frac{28}{97}\sqrt{3}e^{12}, \frac{28}{485}\sqrt{6}e^{34}, \frac{28}{485}\sqrt{138}e^{14} + \frac{84}{485}\sqrt{23}e^{35},$ $\frac{28}{485}\sqrt{209}e^{16} + \frac{56}{485}e^{23}$	$(-\frac{63}{485}, \frac{12}{485}, -\frac{126}{485}, \frac{43}{485}, \frac{278}{485}, -\frac{51}{485}, \frac{89}{485}, \frac{152}{485}, -\frac{114}{485})$ $+ \frac{28}{485}\sqrt{402}e^5 \otimes e_9$	{123489, 13567, 236789, 345}
941:79	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{7}e^{12}, \frac{4}{89}\sqrt{210}e^{34}, \frac{4}{89}\sqrt{322}e^{14} + \frac{12}{89}\sqrt{7}e^{35},$ $\frac{12}{89}\sqrt{21}e^{16} + \frac{4}{89}\sqrt{322}e^{23}$	$(-\frac{7}{89}, \frac{44}{89}, -\frac{14}{89}, -\frac{5}{89}, \frac{2}{89}, \frac{37}{89}, -\frac{19}{89}, -\frac{12}{89}, \frac{30}{89})$ $+ \frac{4}{89}\sqrt{546}e^2 \otimes e_8$	{12469, 1578, 279, 4568}
941:79	$0, 0, 0, 0, 0, \frac{138}{4141}\sqrt{70}e^{12}, \frac{69}{4141}\sqrt{118}e^{34},$ $\frac{161}{4141}\sqrt{70}e^{14} + \frac{23}{4141}\sqrt{2874}e^{35}, \frac{23}{4141}\sqrt{1006}e^{16} + \frac{46}{4141}\sqrt{1135}e^{23}$	$(\frac{253}{4141}, -\frac{805}{4141}, \frac{506}{4141}, \frac{230}{4141}, -\frac{23}{4141}, -\frac{552}{4141}, \frac{736}{4141}, \frac{483}{4141}, -\frac{299}{4141})$ $+ \frac{23}{4141}\sqrt{4542}e^4 \otimes e_9 + \frac{69}{4141}\sqrt{370}e^3 \otimes e_5$	{1457, 259}
941:79	$0, 0, 0, 0, 0, \frac{16}{377}\sqrt{37}e^{12}, \frac{16}{377}\sqrt{57}e^{34}, \frac{16}{377}\sqrt{154}e^{14} + \frac{48}{377}\sqrt{2}e^{35},$ $\frac{96}{377}\sqrt{3}e^{16} + \frac{16}{377}\sqrt{199}e^{23}$	$(\frac{20}{377}, \frac{80}{377}, \frac{40}{377}, -\frac{68}{377}, -\frac{88}{377}, \frac{100}{377}, \frac{28}{377}, -\frac{48}{377}, \frac{120}{377})$ $+ \frac{16}{377}\sqrt{213}e^2 \otimes e_8 + \frac{48}{377}\sqrt{15}e^3 \otimes e_5$	{124569, 2579}
941:79	$0, 0, 0, 0, 0, \frac{3}{377}\sqrt{190}e^{12}, \frac{8}{377}\sqrt{30}e^{34}, \frac{10}{377}\sqrt{7}e^{14} + \frac{4}{377}\sqrt{15}e^{35},$ $\frac{20}{377}\sqrt{5}e^{16} + \frac{3}{377}\sqrt{170}e^{23}$	$(-\frac{11}{377}, \frac{23}{377}, -\frac{22}{377}, \frac{6}{377}, \frac{17}{377}, \frac{12}{377}, -\frac{16}{377}, -\frac{5}{377}, \frac{1}{377})$ $+ \frac{1}{377}\sqrt{2490}e^1 \otimes e_7 + \frac{1}{377}\sqrt{870}e^4 \otimes e_9$	{13468, 236789}
941:79	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{209}e^{12}, \frac{84}{485}\sqrt{23}e^{34}, \frac{28}{485}\sqrt{138}e^{14} + \frac{28}{485}\sqrt{6}e^{35},$ $\frac{28}{97}\sqrt{3}e^{16} + \frac{56}{485}e^{23}$	$(-\frac{63}{485}, \frac{56}{97}, -\frac{126}{485}, \frac{14}{485}, \frac{77}{485}, \frac{217}{485}, -\frac{112}{485}, -\frac{49}{485}, \frac{154}{485})$ $+ \frac{28}{485}\sqrt{402}e^2 \otimes e_7$	{123489, 13567, 234569, 378}
941:79	$0, 0, 0, 0, 0, \frac{4}{493}\sqrt{1765}e^{12}, \frac{4}{493}\sqrt{1590}e^{34}, \frac{8}{493}\sqrt{265}e^{14} + \frac{20}{493}\sqrt{21}e^{35},$ $\frac{4}{493}\sqrt{1765}e^{16} + \frac{4}{493}\sqrt{1770}e^{23}$	$(-\frac{1}{493}, \frac{4}{29}, -\frac{2}{493}, \frac{39}{493}, -\frac{38}{493}, \frac{67}{493}, -\frac{41}{493}, -\frac{40}{493}, \frac{66}{493})$ $+ \frac{4}{493}\sqrt{2130}e^1 \otimes e_7$	{123489, 13468, 236789, 378}
941:79	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{210}e^{12}, \frac{1}{40}\sqrt{987}e^{34}, \frac{9}{40}\sqrt{14}e^{14} + \frac{1}{40}\sqrt{987}e^{35},$ $\frac{1}{20}\sqrt{210}e^{16} + \frac{9}{40}\sqrt{14}e^{23}$	$(-\frac{7}{40}, \frac{13}{40}, -\frac{7}{20}, \frac{19}{80}, \frac{33}{80}, \frac{3}{20}, -\frac{9}{80}, \frac{1}{16}, -\frac{1}{40})$ $+ \frac{1}{20}\sqrt{357}e^5 \otimes e_7$	{234569, 236789, 345, 378}
941:79	$0, 0, 0, 0, 0, \frac{3}{74}\sqrt{70}e^{12}, \frac{1}{74}\sqrt{570}e^{34}, \frac{3}{74}\sqrt{42}e^{14} + \frac{1}{74}\sqrt{186}e^{35},$ $\frac{3}{74}\sqrt{70}e^{16} + \frac{3}{74}\sqrt{70}e^{23}$	$(0, \frac{5}{37}, 0, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37})$ $+ \frac{1}{74}\sqrt{6}e^3 \otimes e_5 + \frac{1}{74}\sqrt{762}e^1 \otimes e_7$	{123489, 13468, 236789, 378}
941:79	$0, 0, 0, 0, 0, \frac{3}{74}\sqrt{70}e^{12}, \frac{1}{74}\sqrt{570}e^{34}, \frac{3}{74}\sqrt{42}e^{14} + \frac{1}{74}\sqrt{186}e^{35},$ $\frac{3}{74}\sqrt{70}e^{16} + \frac{3}{74}\sqrt{70}e^{23}$	$(0, \frac{5}{37}, 0, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37})$ $- \frac{1}{74}\sqrt{6}e^3 \otimes e_5 + \frac{1}{74}\sqrt{762}e^1 \otimes e_7$	{123489, 13468, 236789, 378}
941:79	$0, 0, 0, 0, 0, \frac{12}{89}\sqrt{21}e^{12}, \frac{12}{89}\sqrt{7}e^{34}, \frac{4}{89}\sqrt{322}e^{14} + \frac{4}{89}\sqrt{210}e^{35},$ $\frac{4}{89}\sqrt{7}e^{16} + \frac{4}{89}\sqrt{322}e^{23}$	$(-\frac{7}{89}, -\frac{8}{89}, -\frac{14}{89}, \frac{34}{89}, \frac{41}{89}, -\frac{15}{89}, \frac{20}{89}, \frac{27}{89}, -\frac{22}{89})$ $+ \frac{4}{89}\sqrt{546}e^4 \otimes e_9$	{12689, 1457, 259, 4678}
941:79	$0, 0, 0, 0, 0, \frac{20}{293}\sqrt{7}e^{12}, \frac{20}{293}\sqrt{6}e^{34}, \frac{4}{293}\sqrt{118}e^{14} + \frac{20}{293}\sqrt{3}e^{35},$ $\frac{4}{293}\sqrt{193}e^{16} + \frac{8}{293}\sqrt{42}e^{23}$	$(-\frac{11}{293}, \frac{28}{293}, -\frac{22}{293}, \frac{3}{293}, \frac{14}{293}, \frac{17}{293}, -\frac{19}{293}, -\frac{8}{293}, \frac{6}{293})$ $+ \frac{12}{293}\sqrt{6}e^5 \otimes e_9 + \frac{8}{293}\sqrt{51}e^1 \otimes e_7$	{123489, 236789}
941:80	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{2886}e^{12}, \frac{2}{377}\sqrt{1326}e^{13}, \frac{1}{377}\sqrt{3666}e^{14} + \frac{3}{377}\sqrt{442}e^{35},$ $\frac{4}{377}\sqrt{182}e^{16} + \frac{6}{377}\sqrt{91}e^{45}$	$(\frac{1}{29}, 0, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{2}{29}, 0, \frac{2}{29})$ $+ \frac{1}{377}\sqrt{3198}e^1 \otimes e_2 + \frac{22}{377}\sqrt{13}e^4 \otimes e_7$	{178, 2489}
941:80	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{14}e^{12}, \frac{4}{47}\sqrt{21}e^{13}, \frac{2}{47}\sqrt{21}e^{14} + \frac{1}{47}\sqrt{154}e^{35},$ $\frac{1}{47}\sqrt{154}e^{16} + \frac{7}{47}\sqrt{6}e^{45}$	$(-\frac{7}{47}, \frac{12}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{7}{47}, \frac{5}{47}, -\frac{2}{47}, -\frac{2}{47}, -\frac{2}{47})$ $+ \frac{1}{47}\sqrt{210}e^3 \otimes e_9 + \frac{1}{47}\sqrt{406}e^4 \otimes e_7$	{2489, 367}
941:80	$0, 0, 0, 0, 0, \frac{42}{641}\sqrt{46}e^{12}, \frac{14}{641}\sqrt{834}e^{13}, \frac{126}{641}\sqrt{6}e^{14} + \frac{14}{641}\sqrt{646}e^{35},$ $\frac{14}{641}\sqrt{646}e^{16} + \frac{28}{641}\sqrt{174}e^{45}$	$(-\frac{91}{641}, \frac{246}{641}, -\frac{55}{641}, \frac{50}{641}, \frac{14}{641}, \frac{155}{641}, -\frac{146}{641}, -\frac{41}{641}, \frac{64}{641})$ $+ \frac{28}{641}\sqrt{301}e^4 \otimes e_7$	{123469, 178, 2489, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:80	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{105}e^{12}, \frac{7}{103}\sqrt{10}e^{13}, \frac{4}{103}\sqrt{35}e^{14} + \frac{1}{103}\sqrt{2730}e^{35},$ $\frac{4}{103}\sqrt{105}e^{16} + \frac{1}{103}\sqrt{70}e^{45}$	$(-\frac{21}{103}, \frac{33}{103}, \frac{26}{103}, \frac{19}{103}, -\frac{28}{103}, \frac{12}{103}, \frac{5}{103}, -\frac{2}{103}, -\frac{9}{103})$ $+\frac{15}{103}\sqrt{14}e^2 \otimes e_8 + \frac{2}{103}\sqrt{805}e^3 \otimes e_9$	{24679, 38}
941:80	$0, 0, 0, 0, 0, \frac{12}{1081}\sqrt{2094}e^{12}, \frac{1}{1081}\sqrt{588414}e^{13},$ $\frac{1}{1081}\sqrt{663798}e^{14} + \frac{12}{1081}\sqrt{1745}e^{35}, \frac{1}{1081}\sqrt{387390}e^{16} + \frac{12}{1081}\sqrt{1047}e^{45}$	$(\frac{442}{1081}, -\frac{605}{1081}, \frac{5}{1081}, -\frac{79}{1081}, \frac{358}{1081}, -\frac{163}{1081}, \frac{447}{1081}, \frac{363}{1081}, \frac{279}{1081})$ $+\frac{3}{1081}\sqrt{212890}e^1 \otimes e_2$	{14579, 1789, 248, 25}
941:80	$0, 0, 0, 0, 0, \frac{41}{5069}\sqrt{258}e^{12}, \frac{82}{5069}\sqrt{635}e^{13},$ $\frac{41}{5069}\sqrt{698}e^{14} + \frac{41}{5069}\sqrt{1106}e^{35}, \frac{328}{5069}\sqrt{37}e^{16} + \frac{82}{5069}\sqrt{298}e^{45}$	$(\frac{451}{5069}, -\frac{1230}{5069}, \frac{1353}{5069}, \frac{287}{5069}, -\frac{615}{5069}, -\frac{779}{5069}, \frac{1804}{5069}, \frac{738}{5069}, -\frac{328}{5069})$ $+\frac{41}{5069}\sqrt{3786}e^1 \otimes e_2 + \frac{82}{5069}\sqrt{1321}e^3 \otimes e_9$	{23457, 2378}
941:80	$0, 0, 0, 0, 0, \frac{3}{41}\sqrt{70}e^{12}, \frac{12}{41}\sqrt{7}e^{13}, \frac{4}{41}\sqrt{21}e^{14} + \frac{8}{41}\sqrt{14}e^{35},$ $\frac{1}{41}\sqrt{714}e^{16} + \frac{1}{41}\sqrt{798}e^{45}$	$(0, \frac{6}{41}, -\frac{8}{41}, -\frac{1}{41}, \frac{7}{41}, \frac{6}{41}, -\frac{8}{41}, -\frac{1}{41}, \frac{6}{41})$ $+\frac{1}{41}\sqrt{546}e^2 \otimes e_8 + \frac{4}{41}\sqrt{70}e^4 \otimes e_7$	{2489, 367}
941:80	$0, 0, 0, 0, 0, \frac{21}{221}\sqrt{58}e^{12}, \frac{28}{221}\sqrt{30}e^{13}, \frac{28}{221}\sqrt{15}e^{14} + \frac{28}{221}\sqrt{39}e^{35},$ $\frac{7}{221}\sqrt{246}e^{16} + \frac{21}{221}\sqrt{34}e^{45}$	$(-\frac{56}{221}, \frac{134}{221}, \frac{8}{221}, \frac{43}{221}, -\frac{21}{221}, \frac{6}{221}, \frac{17}{221}, -\frac{48}{221}, -\frac{1}{17}, \frac{22}{221})$ $+\frac{63}{221}\sqrt{14}e^2 \otimes e_8$	{1234579, 1568, 2679, 348}
941:80	$0, 0, 0, 0, 0, \frac{14}{767}\sqrt{330}e^{12}, \frac{28}{767}\sqrt{215}e^{13}, \frac{14}{767}\sqrt{1235}e^{14} + \frac{84}{767}\sqrt{30}e^{35},$ $\frac{84}{767}\sqrt{30}e^{16} + \frac{14}{767}\sqrt{970}e^{45}$	$(-\frac{84}{767}, \frac{57}{767}, \frac{379}{767}, \frac{176}{767}, -\frac{287}{767}, -\frac{27}{767}, \frac{5}{13}, \frac{92}{767}, -\frac{111}{767})$ $+\frac{28}{767}\sqrt{805}e^3 \otimes e_9$	{2469, 25689, 3457, 378}
941:80	$0, 0, 0, 0, 0, \frac{14}{93}\sqrt{26}e^{12}, \frac{14}{93}\sqrt{30}e^{13}, \frac{14}{93}\sqrt{15}e^{14} + \frac{28}{93}e^{35},$ $\frac{28}{93}e^{16} + \frac{14}{93}\sqrt{13}e^{45}$	$(-\frac{7}{31}, \frac{67}{93}, -\frac{10}{93}, \frac{6}{31}, \frac{7}{93}, \frac{46}{93}, -\frac{1}{3}, -\frac{1}{31}, \frac{25}{93})$ $-\frac{14}{93}\sqrt{77}e^2 \otimes e_7$	{123, 123458, 146789, 15679, 2456, 268, 3479, 35789}
941:80	$0, 0, 0, 0, 0, \frac{14}{93}\sqrt{26}e^{12}, \frac{14}{93}\sqrt{30}e^{13}, \frac{14}{93}\sqrt{15}e^{14} + \frac{28}{93}e^{35},$ $\frac{28}{93}e^{16} + \frac{14}{93}\sqrt{13}e^{45}$	$(-\frac{7}{31}, \frac{67}{93}, -\frac{10}{93}, \frac{6}{31}, \frac{7}{93}, \frac{46}{93}, -\frac{1}{3}, -\frac{1}{31}, \frac{25}{93})$ $+\frac{14}{93}\sqrt{77}e^2 \otimes e_7$	{123, 123458, 146789, 15679, 2456, 268, 3479, 35789}
941:80	$0, 0, 0, 0, 0, \frac{6}{137}\sqrt{17}e^{12}, \frac{2}{137}\sqrt{2958}e^{13}, \frac{2}{137}\sqrt{1479}e^{14} + \frac{34}{137}\sqrt{3}e^{35},$ $\frac{2}{137}\sqrt{1122}e^{16} + \frac{6}{137}\sqrt{323}e^{45}$	$(\frac{16}{137}, \frac{23}{137}, -\frac{55}{137}, -\frac{8}{137}, \frac{63}{137}, \frac{39}{137}, -\frac{39}{137}, \frac{8}{137}, \frac{55}{137})$ $+\frac{6}{137}\sqrt{663}e^5 \otimes e_7$	{123569, 17, 2589, 3678}
941:80	$0, 0, 0, 0, 0, \frac{2}{143}\sqrt{462}e^{12}, \frac{4}{143}\sqrt{210}e^{13}, \frac{6}{143}\sqrt{91}e^{14} + \frac{4}{143}\sqrt{105}e^{35},$ $\frac{4}{143}\sqrt{105}e^{16} + \frac{6}{143}\sqrt{70}e^{45}$	$(-\frac{28}{143}, \frac{45}{143}, \frac{31}{143}, \frac{24}{143}, -\frac{35}{143}, \frac{17}{143}, \frac{3}{143}, -\frac{4}{143}, -\frac{1}{13})$ $+\frac{4}{143}\sqrt{273}e^2 \otimes e_7 + \frac{4}{143}\sqrt{399}e^3 \otimes e_9$	{2469, 25689, 3457, 378}
941:80	$0, 0, 0, 0, 0, \frac{2}{143}\sqrt{462}e^{12}, \frac{4}{143}\sqrt{210}e^{13}, \frac{6}{143}\sqrt{91}e^{14} + \frac{4}{143}\sqrt{105}e^{35},$ $\frac{4}{143}\sqrt{105}e^{16} + \frac{6}{143}\sqrt{70}e^{45}$	$(-\frac{28}{143}, \frac{45}{143}, \frac{31}{143}, \frac{24}{143}, -\frac{35}{143}, \frac{17}{143}, \frac{3}{143}, -\frac{4}{143}, -\frac{1}{13})$ $-\frac{4}{143}\sqrt{273}e^2 \otimes e_7 + \frac{4}{143}\sqrt{399}e^3 \otimes e_9$	{2469, 25689, 3457, 378}
941:80	$0, 0, 0, 0, 0, \frac{22}{279}\sqrt{13}e^{12}, \frac{11}{279}\sqrt{206}e^{13}, \frac{11}{279}\sqrt{6}e^{14} + \frac{22}{279}e^{35},$ $\frac{11}{93}\sqrt{2}e^{16} + \frac{22}{279}\sqrt{29}e^{45}$	$(\frac{22}{93}, -\frac{55}{279}, -\frac{77}{279}, -\frac{11}{93}, \frac{110}{279}, \frac{11}{279}, -\frac{11}{279}, \frac{11}{93}, \frac{77}{279})$ $+\frac{11}{279}\sqrt{218}e^1 \otimes e_2 + \frac{22}{279}\sqrt{71}e^5 \otimes e_7$	{1345, 234789}
941:80	$0, 0, 0, 0, 0, \frac{1}{223}\sqrt{6}e^{12}, \frac{2}{223}\sqrt{77}e^{13}, \frac{2}{223}\sqrt{65}e^{14} + \frac{1}{223}\sqrt{178}e^{35},$ $\frac{2}{223}\sqrt{11}e^{16} + \frac{1}{223}\sqrt{310}e^{45}$	$(-\frac{8}{223}, \frac{15}{223}, \frac{1}{223}, \frac{4}{223}, -\frac{5}{223}, \frac{7}{223}, -\frac{7}{223}, -\frac{4}{223}, -\frac{1}{223})$ $+\frac{1}{223}\sqrt{402}e^5 \otimes e_7 + \frac{2}{223}\sqrt{106}e^3 \otimes e_9$	{25689, 378}
941:81	$0, 0, 0, 0, 0, \frac{2}{613}\sqrt{40542}e^{12}, \frac{2}{613}\sqrt{39610}e^{13},$ $\frac{2}{613}\sqrt{18407}e^{14} + \frac{4}{613}\sqrt{466}e^{35}, \frac{8}{613}\sqrt{3029}e^{26} + \frac{2}{613}\sqrt{2563}e^{45}$	$(-\frac{161}{613}, \frac{231}{613}, -\frac{74}{613}, \frac{194}{613}, \frac{107}{613}, \frac{70}{613}, -\frac{235}{613}, \frac{33}{613}, \frac{301}{613})$ $+\frac{2}{613}\sqrt{118597}e^2 \otimes e_7$	{1456789, 1679, 246, 2568}
941:81	$0, 0, 0, 0, 0, \frac{2}{3077}\sqrt{49521}e^{12}, \frac{4}{3077}\sqrt{245663}e^{13},$ $\frac{2}{3077}\sqrt{641831}e^{14} + \frac{2}{3077}\sqrt{632121}e^{35}, \frac{32}{3077}\sqrt{2913}e^{26} + \frac{2}{3077}\sqrt{750583}e^{45}$	$(\frac{6}{181}, -\frac{315}{3077}, \frac{1414}{3077}, \frac{392}{3077}, -\frac{920}{3077}, -\frac{213}{3077}, \frac{1516}{3077}, \frac{494}{3077}, -\frac{528}{3077})$ $+\frac{2}{3077}\sqrt{2498383}e^3 \otimes e_9$	{234567, 23678, 3457, 378}
941:81	$0, 0, 0, 0, 0, \frac{2}{587}\sqrt{273}e^{12}, \frac{1}{587}\sqrt{1362}e^{13}, \frac{12}{587}\sqrt{3}e^{14} + \frac{2}{587}\sqrt{391}e^{35},$ $\frac{1}{587}\sqrt{1254}e^{26} + \frac{2}{587}\sqrt{354}e^{45}$	$(\frac{6}{587}, 0, -\frac{14}{587}, -\frac{7}{587}, \frac{13}{587}, \frac{6}{587}, -\frac{8}{587}, -\frac{1}{587}, \frac{6}{587})$ $+\frac{2}{587}\sqrt{293}e^4 \otimes e_7 + \frac{2}{587}\sqrt{543}e^2 \otimes e_8$	{1234579, 2356}
941:81	$0, 0, 0, 0, 0, \frac{1}{1411}\sqrt{477318}e^{12}, \frac{3}{1411}\sqrt{130910}e^{13},$ $\frac{4}{1411}\sqrt{39273}e^{14} + \frac{1}{1411}\sqrt{843866}e^{35}, \frac{4}{1411}\sqrt{15105}e^{26} + \frac{2}{1411}\sqrt{274911}e^{45}$	$(-\frac{474}{1411}, \frac{543}{1411}, \frac{20}{1411}, \frac{553}{1411}, \frac{59}{1411}, \frac{69}{1411}, -\frac{454}{1411}, \frac{79}{1411}, \frac{36}{83})$ $+\frac{35}{1411}\sqrt{2014}e^4 \otimes e_7$	{123469, 1349, 237, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:81	$0, 0, 0, 0, 0, \frac{1}{367}\sqrt{3990e^{12}}, \frac{1}{367}\sqrt{74670e^{13}}, \frac{24}{367}\sqrt{95e^{14}} + \frac{3}{367}\sqrt{3990e^{35}},$ $\frac{1}{367}\sqrt{16530e^{26}} + \frac{1}{367}\sqrt{81510e^{45}}$	$(\frac{14}{367}, \frac{78}{367}, -\frac{138}{367}, \frac{9}{367}, \frac{161}{367}, \frac{92}{367}, -\frac{124}{367}, \frac{23}{367}, \frac{170}{367})$ $+ \frac{1}{367}\sqrt{177270e^5} \otimes e_7$	{127, 167, 25689, 589}
941:81	$0, 0, 0, 0, 0, \frac{114}{4469}\sqrt{59e^{12}}, \frac{19}{4469}\sqrt{1114e^{13}},$ $\frac{76}{4469}\sqrt{73e^{14}} + \frac{19}{4469}\sqrt{3486e^{35}}, \frac{76}{4469}\sqrt{219e^{26}} + \frac{19}{4469}\sqrt{1574e^{45}}$	$(-\frac{627}{4469}, \frac{399}{4469}, \frac{532}{4469}, \frac{665}{4469}, -\frac{494}{4469}, -\frac{228}{4469}, -\frac{95}{4469}, \frac{38}{4469}, \frac{171}{4469})$ $+ \frac{19}{4469}\sqrt{5502e^2} \otimes e_8 + \frac{76}{4469}\sqrt{157e^3} \otimes e_9$	{2356, 348}
941:81	$0, 0, 0, 0, 0, \frac{2}{1467}\sqrt{74635e^{12}}, \frac{1}{1467}\sqrt{284970e^{13}},$ $\frac{4}{489}\sqrt{1770e^{14}} + \frac{5}{1467}\sqrt{16166e^{35}}, \frac{2}{1467}\sqrt{98530e^{26}} + \frac{1}{1467}\sqrt{316830e^{45}}$	$(-\frac{281}{1467}, \frac{293}{1467}, -\frac{28}{1467}, \frac{31}{1467}, \frac{26}{1467}, \frac{4}{489}, -\frac{103}{1467}, -\frac{2}{1467}, \frac{305}{1467})$ $+ \frac{1}{1467}\sqrt{762870e^2} \otimes e_8$	{1234579, 136789, 2356, 348}
941:81	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10e^{12}}, \frac{3}{25}\sqrt{10e^{13}}, \frac{4}{25}\sqrt{5e^{14}} + \frac{2}{25}\sqrt{30e^{35}},$ $\frac{2}{25}\sqrt{30e^{26}} + \frac{2}{5}e^{45}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{10e^5} \otimes e_7 + \frac{1}{25}\sqrt{230e^2} \otimes e_8$	{1234579, 348}
941:81	$0, 0, 0, 0, 0, \frac{72}{383}e^{12}, \frac{4}{383}\sqrt{1326e^{13}}, \frac{4}{383}\sqrt{39e^{14}} + \frac{8}{383}\sqrt{42e^{35}},$ $\frac{12}{383}\sqrt{29e^{26}} + \frac{4}{383}\sqrt{1131e^{45}}$	$(-\frac{72}{383}, \frac{42}{383}, \frac{84}{383}, \frac{84}{383}, -\frac{72}{383}, -\frac{30}{383}, \frac{12}{383}, \frac{12}{383}, \frac{12}{383})$ $+ \frac{4}{383}\sqrt{1533e^4} \otimes e_7 + \frac{4}{383}\sqrt{1599e^3} \otimes e_9$	{1234568, 13458}
941:81	$0, 0, 0, 0, 0, \frac{1}{823}\sqrt{3e^{12}}, \frac{3}{823}\sqrt{22e^{13}}, \frac{2}{2469}\sqrt{331e^{14}} + \frac{1}{2469}\sqrt{943e^{35}},$ $\frac{1}{2469}\sqrt{366e^{26}} + \frac{2}{2469}\sqrt{1651e^{45}}$	$(-\frac{9}{823}, \frac{19}{2469}, \frac{4}{823}, \frac{25}{2469}, -\frac{14}{2469}, -\frac{8}{2469}, -\frac{5}{823}, -\frac{2}{2469}, \frac{11}{2469})$ $+ \frac{1}{2469}\sqrt{2189e^5} \otimes e_7 + \frac{2}{2469}\sqrt{593e^3} \otimes e_9$	{2589, 5689}
941:81	$0, 0, 0, 0, 0, \frac{31}{8853}\sqrt{2378e^{12}}, \frac{31}{8853}\sqrt{5610e^{13}},$ $\frac{62}{8853}\sqrt{862e^{14}} + \frac{31}{8853}\sqrt{1946e^{35}}, \frac{31}{8853}\sqrt{5182e^{26}} + \frac{124}{2951}\sqrt{15e^{45}}$	$(-\frac{465}{2951}, \frac{868}{8853}, \frac{434}{2951}, \frac{1519}{8853}, -\frac{1178}{8853}, -\frac{527}{8853}, -\frac{31}{2951}, \frac{124}{8853}, \frac{341}{8853})$ $+ \frac{217}{8853}\sqrt{154e^2} \otimes e_7 + \frac{899}{8853}\sqrt{10e^3} \otimes e_9$	{3457, 378}
941:82	$0, 0, 0, 0, 0, \frac{2}{97}\sqrt{186e^{12}}, \frac{6}{97}\sqrt{38e^{13}}, \frac{4}{97}\sqrt{51e^{24}} + \frac{4}{97}\sqrt{65e^{35}},$ $\frac{16}{97}\sqrt{3e^{16}} + \frac{2}{97}\sqrt{222e^{45}}$	$(\frac{6}{97}, 0, -\frac{16}{97}, -\frac{2}{97}, \frac{14}{97}, \frac{6}{97}, -\frac{10}{97}, -\frac{2}{97}, \frac{12}{97})$ $+ \frac{2}{97}\sqrt{30e^1} \otimes e_8 + \frac{40}{97}e^4 \otimes e_7$	{13458, 367}
941:82	$0, 0, 0, 0, 0, \frac{4}{401}\sqrt{714e^{12}}, \frac{36}{401}\sqrt{17e^{13}}, \frac{2}{401}\sqrt{3417e^{24}} + \frac{2}{401}\sqrt{3995e^{35}},$ $\frac{4}{401}\sqrt{714e^{16}} + \frac{2}{401}\sqrt{3417e^{45}}$	$(\frac{33}{401}, -\frac{12}{401}, -\frac{68}{401}, -\frac{1}{401}, \frac{55}{401}, \frac{21}{401}, -\frac{35}{401}, -\frac{13}{401}, \frac{54}{401})$ $+ \frac{4}{401}\sqrt{1615e^4} \otimes e_7$	{123469, 13458, 235789, 367}
941:82	$0, 0, 0, 0, 0, \frac{6}{731}\sqrt{534e^{12}}, \frac{6}{731}\sqrt{470e^{13}}, \frac{12}{731}\sqrt{213e^{24}} + \frac{12}{731}\sqrt{87e^{35}},$ $\frac{12}{731}\sqrt{158e^{16}} + \frac{6}{731}\sqrt{514e^{45}}$	$(\frac{54}{731}, -\frac{6}{731}, -\frac{132}{731}, -\frac{12}{731}, \frac{114}{731}, \frac{48}{731}, -\frac{78}{731}, -\frac{18}{731}, \frac{6}{43})$ $+ \frac{24}{731}\sqrt{67e^2} \otimes e_7 + \frac{6}{731}\sqrt{1562e^1} \otimes e_8$	{123459, 3478}
941:82	$0, 0, 0, 0, 0, \frac{900}{4981}e^{12}, \frac{45}{4981}\sqrt{3070e^{13}}, \frac{90}{4981}\sqrt{327e^{24}} + \frac{45}{4981}\sqrt{42e^{35}},$ $\frac{45}{4981}\sqrt{394e^{16}} + \frac{1620}{4981}e^{45}$	$(-\frac{1350}{4981}, \frac{1935}{4981}, \frac{1260}{4981}, -\frac{720}{4981}, -\frac{45}{4981}, \frac{585}{4981}, -\frac{90}{4981}, \frac{1215}{4981}, -\frac{45}{293})$ $+ \frac{180}{4981}\sqrt{274e^3} \otimes e_9 + \frac{45}{4981}\sqrt{4414e^2} \otimes e_7$	{34578, 37}
941:82	$0, 0, 0, 0, 0, \frac{4}{259}\sqrt{3e^{12}}, \frac{4}{1813}\sqrt{303e^{13}}, \frac{2}{1813}\sqrt{645e^{24}} + \frac{10}{1813}\sqrt{29e^{35}},$ $\frac{2}{1813}\sqrt{510e^{16}} + \frac{8}{1813}\sqrt{89e^{45}}$	$(-\frac{3}{259}, \frac{36}{1813}, -\frac{4}{1813}, -\frac{23}{1813}, \frac{17}{1813}, \frac{15}{1813}, -\frac{25}{1813}, \frac{13}{1813}, -\frac{6}{1813})$ $+ \frac{2}{1813}\sqrt{1330e^4} \otimes e_7 + \frac{2}{1813}\sqrt{390e^3} \otimes e_9$	{13458, 367}
941:82	$0, 0, 0, 0, 0, \frac{2}{255}\sqrt{510e^{12}}, \frac{2}{255}\sqrt{174e^{13}}, \frac{4}{85}\sqrt{7e^{24}} + \frac{12}{85}\sqrt{3e^{35}},$ $\frac{8}{255}\sqrt{66e^{16}} + \frac{2}{255}\sqrt{282e^{45}}$	$(\frac{6}{85}, -\frac{12}{85}, \frac{8}{85}, \frac{2}{17}, -\frac{2}{17}, -\frac{6}{85}, \frac{14}{85}, -\frac{2}{85}, 0)$ $+ \frac{2}{255}\sqrt{1626e^1} \otimes e_8 + \frac{2}{255}\sqrt{69e^3} \otimes e_9$	{1356, 3478}
941:82	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2e^{12}}, \frac{2}{29}\sqrt{14e^{13}}, \frac{4}{29}\sqrt{3e^{24}} + \frac{8}{29}\sqrt{2e^{35}},$ $\frac{4}{29}\sqrt{6e^{16}} + \frac{2}{29}\sqrt{6e^{45}}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{12}{29}e^5 \otimes e_7 + \frac{2}{29}\sqrt{66e^1} \otimes e_8$	{123459, 1356, 236789, 3478}
941:82	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2e^{12}}, \frac{2}{29}\sqrt{14e^{13}}, \frac{4}{29}\sqrt{3e^{24}} + \frac{8}{29}\sqrt{2e^{35}},$ $\frac{4}{29}\sqrt{6e^{16}} + \frac{2}{29}\sqrt{6e^{45}}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{6}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{12}{29}e^5 \otimes e_7 + \frac{2}{29}\sqrt{66e^1} \otimes e_8$	{123459, 1356, 236789, 3478}
941:82	$0, 0, 0, 0, 0, \frac{4}{2401}\sqrt{20517e^{12}}, \frac{4}{2401}\sqrt{103562e^{13}},$ $\frac{2}{2401}\sqrt{249135e^{24}} + \frac{2}{2401}\sqrt{552005e^{35}}, \frac{8}{2401}\sqrt{29310e^{16}} + \frac{2}{2401}\sqrt{524649e^{45}}$	$(-\frac{81}{343}, \frac{592}{2401}, \frac{1412}{2401}, \frac{139}{2401}, -\frac{681}{2401}, \frac{25}{2401}, \frac{845}{2401}, \frac{731}{2401}, -\frac{542}{2401})$ $+ \frac{12}{2401}\sqrt{53735e^3} \otimes e_9$	{13456, 1368, 3457, 378}
941:82	$0, 0, 0, 0, 0, \frac{12}{233}\sqrt{3e^{12}}, \frac{4}{233}\sqrt{278e^{13}}, \frac{8}{233}\sqrt{30e^{24}} + \frac{4}{233}\sqrt{155e^{35}},$ $\frac{4}{233}\sqrt{30e^{16}} + \frac{4}{233}\sqrt{309e^{45}}$	$(-\frac{36}{233}, \frac{56}{233}, \frac{16}{233}, -\frac{28}{233}, \frac{12}{233}, \frac{20}{233}, -\frac{20}{233}, \frac{28}{233}, -\frac{16}{233})$ $+ \frac{4}{233}\sqrt{435e^5} \otimes e_7 + \frac{8}{233}\sqrt{105e^3} \otimes e_9$	{1345, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:82	$0, 0, 0, 0, 0, \frac{4}{1143}\sqrt{9470}e^{12}, \frac{1}{381}\sqrt{100382}e^{13},$ $\frac{2}{1143}\sqrt{201711}e^{24} + \frac{1}{1143}\sqrt{482970}e^{35}, \frac{1}{1143}\sqrt{214022}e^{16} + \frac{4}{1143}\sqrt{4735}e^{45}$	$(-\frac{266}{1143}, \frac{637}{1143}, -\frac{44}{1143}, -\frac{32}{127}, \frac{131}{381}, \frac{371}{1143}, -\frac{310}{1143}, \frac{349}{1143}, \frac{35}{381})$ $+\frac{1}{1143}\sqrt{1827710}e^2 \otimes e_7$	{146789, 15679, 2456, 268}
941:82	$0, 0, 0, 0, 0, \frac{72}{151}e^{12}, \frac{8}{151}\sqrt{7}e^{13}, \frac{8}{151}\sqrt{66}e^{24} + \frac{8}{151}\sqrt{110}e^{35},$ $\frac{16}{151}\sqrt{33}e^{16} + \frac{8}{151}\sqrt{87}e^{45}$	$(\frac{48}{151}, -\frac{50}{151}, -\frac{28}{151}, \frac{34}{151}, \frac{12}{151}, -\frac{2}{151}, \frac{20}{151}, -\frac{16}{151}, \frac{46}{151})$ $+\frac{8}{151}\sqrt{255}e^1 \otimes e_8$	{1234579, 13567, 23689, 348}
941:82	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{38}e^{12}, \frac{6}{47}\sqrt{38}e^{13}, \frac{2}{47}\sqrt{95}e^{24} + \frac{2}{47}\sqrt{95}e^{35},$ $\frac{2}{47}\sqrt{190}e^{16} + \frac{38}{47}e^{45}$	$(\frac{1}{47}, \frac{14}{47}, -\frac{16}{47}, -\frac{7}{47}, \frac{23}{47}, \frac{15}{47}, -\frac{15}{47}, \frac{7}{47}, \frac{16}{47})$ $+\frac{4}{47}\sqrt{190}e^5 \otimes e_7$	{123569, 1345, 234789, 3678}
941:83	$0, 0, 0, 0, 0, \frac{13}{2157}\sqrt{41}e^{12}, \frac{13}{2157}\sqrt{1102}e^{13},$ $\frac{26}{2157}\sqrt{209}e^{24} + \frac{13}{2157}\sqrt{967}e^{35}, \frac{13}{2157}\sqrt{742}e^{26} + \frac{13}{2157}\sqrt{1147}e^{45}$	$(-\frac{377}{2157}, \frac{221}{2157}, \frac{78}{719}, \frac{13}{719}, \frac{26}{2157}, -\frac{52}{719}, -\frac{143}{2157}, \frac{260}{2157}, \frac{65}{2157})$ $+\frac{13}{2157}\sqrt{1777}e^5 \otimes e_7 + \frac{26}{2157}\sqrt{537}e^3 \otimes e_9$	{14679, 378}
941:83	$0, 0, 0, 0, 0, \frac{34}{3341}\sqrt{447}e^{12}, \frac{34}{3341}\sqrt{870}e^{13},$ $\frac{476}{3341}\sqrt{3}e^{24} + \frac{17}{3341}\sqrt{1970}e^{35}, \frac{153}{3341}\sqrt{10}e^{26} + \frac{17}{3341}\sqrt{2370}e^{45}$	$(-\frac{612}{3341}, \frac{357}{3341}, \frac{391}{3341}, \frac{68}{3341}, \frac{34}{3341}, -\frac{255}{3341}, -\frac{17}{257}, \frac{425}{3341}, \frac{102}{3341})$ $+\frac{17}{3341}\sqrt{4390}e^4 \otimes e_7 + \frac{68}{3341}\sqrt{114}e^3 \otimes e_9$	{1579, 367}
941:83	$0, 0, 0, 0, 0, \frac{6}{2681}\sqrt{14973}e^{12}, \frac{180}{2681}\sqrt{62}e^{13},$ $\frac{18}{2681}\sqrt{6603}e^{24} + \frac{72}{2681}\sqrt{465}e^{35}, \frac{12}{2681}\sqrt{21390}e^{26} + \frac{24}{2681}\sqrt{3255}e^{45}$	$(-\frac{317}{2681}, \frac{2}{2681}, \frac{1361}{2681}, \frac{523}{2681}, -\frac{836}{2681}, \frac{45}{383}, \frac{1044}{2681}, \frac{75}{383}, -\frac{313}{2681})$ $+\frac{6}{2681}\sqrt{208041}e^3 \otimes e_9$	{14679, 156789, 3457, 378}
941:83	$0, 0, 0, 0, 0, \frac{10}{793}\sqrt{358}e^{12}, \frac{10}{793}\sqrt{670}e^{13}, \frac{20}{793}\sqrt{29}e^{24} + \frac{20}{793}\sqrt{201}e^{35},$ $\frac{40}{793}\sqrt{38}e^{26} + \frac{10}{793}\sqrt{206}e^{45}$	$(\frac{150}{793}, -\frac{120}{793}, \frac{110}{793}, \frac{70}{793}, -\frac{160}{793}, \frac{30}{793}, \frac{20}{61}, -\frac{50}{793}, -\frac{90}{793})$ $+\frac{10}{793}\sqrt{1258}e^1 \otimes e_8 + \frac{20}{793}\sqrt{386}e^3 \otimes e_9$	{14679, 378}
941:83	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{210}e^{13}, \frac{12}{221}\sqrt{15}e^{24} + \frac{24}{221}\sqrt{11}e^{35},$ $\frac{24}{221}e^{26} + \frac{6}{221}\sqrt{86}e^{45}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $+\frac{12}{221}\sqrt{95}e^5 \otimes e_7 + \frac{6}{221}\sqrt{406}e^1 \otimes e_8$	{12345, 167, 25689, 34789}
941:83	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{210}e^{13}, \frac{12}{221}\sqrt{15}e^{24} + \frac{24}{221}\sqrt{11}e^{35},$ $\frac{24}{221}e^{26} + \frac{6}{221}\sqrt{86}e^{45}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $-\frac{12}{221}\sqrt{95}e^5 \otimes e_7 + \frac{6}{221}\sqrt{406}e^1 \otimes e_8$	{12345, 167, 25689, 34789}
941:83	$0, 0, 0, 0, 0, \frac{12}{559}\sqrt{58}e^{12}, \frac{4}{559}\sqrt{1158}e^{13}, \frac{8}{559}\sqrt{285}e^{24} + \frac{8}{559}\sqrt{179}e^{35},$ $\frac{16}{559}\sqrt{33}e^{26} + \frac{4}{559}\sqrt{582}e^{45}$	$(\frac{24}{559}, \frac{12}{559}, -\frac{76}{559}, -\frac{20}{559}, \frac{68}{559}, \frac{36}{559}, -\frac{4}{43}, -\frac{8}{559}, \frac{48}{559})$ $+\frac{12}{559}\sqrt{66}e^1 \otimes e_8 + \frac{16}{559}\sqrt{94}e^4 \otimes e_7$	{123469, 1579}
941:83	$0, 0, 0, 0, 0, \frac{1}{327}\sqrt{586}e^{12}, \frac{1}{327}\sqrt{53326}e^{13}, \frac{8}{327}\sqrt{293}e^{24} + \frac{1}{327}\sqrt{32230}e^{35},$ $\frac{1}{327}\sqrt{2930}e^{26} + \frac{1}{327}\sqrt{60358}e^{45}$	$(-\frac{34}{327}, \frac{94}{327}, -\frac{30}{109}, -\frac{5}{109}, \frac{169}{327}, \frac{20}{109}, -\frac{124}{327}, \frac{79}{327}, \frac{154}{327})$ $+\frac{1}{327}\sqrt{158806}e^5 \otimes e_7$	{123569, 1479, 2458, 3678}
941:83	$0, 0, 0, 0, 0, \frac{4}{667}\sqrt{8942}e^{12}, \frac{68}{667}\sqrt{30}e^{13}, \frac{8}{667}\sqrt{2465}e^{24} + \frac{408}{667}e^{35},$ $\frac{16}{667}\sqrt{51}e^{26} + \frac{4}{667}\sqrt{4386}e^{45}$	$(\frac{408}{667}, -\frac{172}{667}, -\frac{164}{667}, \frac{36}{667}, \frac{28}{667}, \frac{236}{667}, \frac{244}{667}, -\frac{136}{667}, \frac{64}{667})$ $+\frac{4}{667}\sqrt{37434}e^1 \otimes e_8$	{123459, 1679, 2568, 3478}
941:83	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{158}e^{12}, \frac{12}{251}\sqrt{30}e^{13}, \frac{8}{251}\sqrt{65}e^{24} + \frac{24}{251}e^{35},$ $\frac{48}{251}e^{26} + \frac{4}{251}\sqrt{114}e^{45}$	$(\frac{24}{251}, \frac{4}{251}, -\frac{52}{251}, -\frac{12}{251}, \frac{44}{251}, \frac{28}{251}, -\frac{28}{251}, -\frac{8}{251}, \frac{32}{251})$ $-\frac{16}{251}\sqrt{30}e^2 \otimes e_7 + \frac{4}{251}\sqrt{426}e^1 \otimes e_8$	{123459, 1679, 2568, 3478}
941:83	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{158}e^{12}, \frac{12}{251}\sqrt{30}e^{13}, \frac{8}{251}\sqrt{65}e^{24} + \frac{24}{251}e^{35},$ $\frac{48}{251}e^{26} + \frac{4}{251}\sqrt{114}e^{45}$	$(\frac{24}{251}, \frac{4}{251}, -\frac{52}{251}, -\frac{12}{251}, \frac{44}{251}, \frac{28}{251}, -\frac{28}{251}, -\frac{8}{251}, \frac{32}{251})$ $+\frac{16}{251}\sqrt{30}e^2 \otimes e_7 + \frac{4}{251}\sqrt{426}e^1 \otimes e_8$	{123459, 1679, 2568, 3478}
941:83	$0, 0, 0, 0, 0, \frac{30}{1139}\sqrt{223}e^{12}, \frac{2}{1139}\sqrt{81618}e^{13},$ $\frac{4}{1139}\sqrt{19401}e^{24} + \frac{1}{1139}\sqrt{270722}e^{35}, \frac{11}{1139}\sqrt{1338}e^{26} + \frac{1}{1139}\sqrt{210066}e^{45}$	$(-\frac{12}{67}, \frac{195}{1139}, -\frac{47}{1139}, -\frac{28}{1139}, \frac{214}{1139}, -\frac{9}{1139}, -\frac{251}{1139}, \frac{167}{1139}, \frac{186}{1139})$ $+\frac{1}{1139}\sqrt{473206}e^4 \otimes e_7$	{123469, 1579, 245, 367}
941:84	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{178}e^{34}, \frac{20}{629}\sqrt{2}e^{13} + \frac{20}{629}\sqrt{87}e^{25},$ $\frac{20}{629}\sqrt{85}e^{16} + \frac{20}{629}\sqrt{93}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, -\frac{30}{629}, \frac{160}{629}, -\frac{30}{629})$ $+\frac{60}{629}\sqrt{31}e^3 \otimes e_9 - \frac{60}{629}\sqrt{31}e^5 \otimes e_7$	{123456, 1589, 2378, 4679}
941:84	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{20}{629}\sqrt{178}e^{34}, \frac{20}{629}\sqrt{2}e^{13} + \frac{20}{629}\sqrt{87}e^{25},$ $\frac{20}{629}\sqrt{85}e^{16} + \frac{20}{629}\sqrt{93}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, -\frac{30}{629}, \frac{160}{629}, -\frac{30}{629})$ $+\frac{60}{629}\sqrt{31}e^3 \otimes e_9 + \frac{60}{629}\sqrt{31}e^5 \otimes e_7$	{123456, 1589, 2378, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:84	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{102}e^{12}, \frac{8}{673}\sqrt{1717}e^{34}, \frac{16}{673}\sqrt{782}e^{13} + \frac{8}{673}\sqrt{1479}e^{25},$ $\frac{8}{673}\sqrt{1717}e^{16} + \frac{8}{673}\sqrt{3162}e^{45}$	$(-\frac{176}{673}, \frac{196}{673}, \frac{388}{673}, -\frac{172}{673}, \frac{16}{673}, \frac{20}{673}, \frac{216}{673}, \frac{212}{673}, -\frac{156}{673})$ $+ \frac{24}{673}\sqrt{1054}e^3 \otimes e_9$	{12589, 13456, 24679, 378}
941:84	$0, 0, 0, 0, 0, \frac{16}{887}\sqrt{21}e^{12}, \frac{4}{887}\sqrt{721}e^{34}, \frac{4}{887}\sqrt{694}e^{13} + \frac{4}{887}\sqrt{627}e^{25},$ $\frac{4}{887}\sqrt{439}e^{16} + \frac{4}{887}\sqrt{582}e^{45}$	$(\frac{14}{887}, -\frac{22}{887}, \frac{14}{887}, -\frac{44}{887}, \frac{50}{887}, -\frac{8}{887}, -\frac{30}{887}, \frac{28}{887}, \frac{6}{887})$ $+ \frac{12}{887}\sqrt{6}e^3 \otimes e_9 + \frac{12}{887}\sqrt{94}e^2 \otimes e_7$	{1467, 234569}
941:84	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{38}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{25},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^4 \otimes e_8 - \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:84	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{38}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{25},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{42}e^4 \otimes e_8 - \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:84	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{38}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{25},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $+ \frac{2}{29}\sqrt{42}e^4 \otimes e_8 + \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:84	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{38}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{25},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{45}$	$(\frac{6}{29}, -\frac{4}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{2}{29}, \frac{8}{29})$ $- \frac{2}{29}\sqrt{42}e^4 \otimes e_8 + \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1289, 1346, 1568, 236789, 245679, 3578, 47}
941:84	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{57}e^{12}, \frac{4}{161}\sqrt{31}e^{34}, \frac{2}{161}\sqrt{115}e^{13} + \frac{2}{161}\sqrt{105}e^{25},$ $\frac{4}{161}\sqrt{19}e^{16} + \frac{8}{161}\sqrt{6}e^{45}$	$(-\frac{1}{161}, -\frac{1}{161}, \frac{8}{161}, -\frac{11}{161}, \frac{8}{161}, -\frac{2}{161}, -\frac{3}{161}, \frac{1}{23}, -\frac{3}{161})$ $+ \frac{24}{161}e^2 \otimes e_7$	{135678, 1467, 234569, 2689}
941:85	$0, 0, 0, 0, 0, \frac{8}{1081}\sqrt{406}e^{12}, \frac{8}{1081}\sqrt{1194}e^{34}, \frac{48}{1081}\sqrt{43}e^{15} + \frac{16}{1081}e^{23},$ $\frac{32}{1081}\sqrt{41}e^{16} + \frac{8}{1081}\sqrt{746}e^{45}$	$(-\frac{40}{1081}, \frac{8}{47}, -\frac{216}{1081}, \frac{96}{1081}, \frac{8}{1081}, \frac{144}{1081}, -\frac{120}{1081}, -\frac{32}{1081}, \frac{104}{1081})$ $+ \frac{160}{1081}\sqrt{5}e^5 \otimes e_7 + \frac{24}{1081}\sqrt{222}e^4 \otimes e_8$	{1345, 2479}
941:85	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{34}e^{12}, \frac{4}{43}\sqrt{34}e^{34}, \frac{2}{43}\sqrt{187}e^{15} + \frac{1}{43}\sqrt{646}e^{23},$ $\frac{3}{43}\sqrt{34}e^{16} + \frac{1}{43}\sqrt{646}e^{45}$	$(\frac{5}{43}, \frac{2}{43}, -\frac{21}{86}, \frac{51}{86}, \frac{27}{86}, \frac{7}{43}, \frac{15}{43}, -\frac{17}{86}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^4 \otimes e_8$	{1378, 1457, 2349, 2589}
941:85	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{206}e^{34}, \frac{12}{221}\sqrt{15}e^{15} + \frac{36}{221}\sqrt{5}e^{23},$ $\frac{24}{221}e^{16} + \frac{6}{221}\sqrt{86}e^{45}$	$(-\frac{6}{221}, \frac{54}{221}, -\frac{72}{221}, \frac{54}{221}, -\frac{12}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^2 \otimes e_7 - \frac{6}{221}\sqrt{410}e^4 \otimes e_8$	{12345, 128, 35789, 479}
941:85	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{206}e^{34}, \frac{12}{221}\sqrt{15}e^{15} + \frac{36}{221}\sqrt{5}e^{23},$ $\frac{24}{221}e^{16} + \frac{6}{221}\sqrt{86}e^{45}$	$(-\frac{6}{221}, \frac{54}{221}, -\frac{72}{221}, \frac{54}{221}, -\frac{12}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^2 \otimes e_7 + \frac{6}{221}\sqrt{410}e^4 \otimes e_8$	{12345, 128, 35789, 479}
941:85	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{10}{629}\sqrt{542}e^{34}, \frac{20}{629}\sqrt{2}e^{15} + \frac{20}{629}\sqrt{87}e^{23},$ $\frac{20}{629}\sqrt{85}e^{16} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, -\frac{30}{629}, \frac{160}{629}, -\frac{30}{629})$ $+ \frac{10}{629}\sqrt{1286}e^3 \otimes e_9 + \frac{10}{629}\sqrt{946}e^5 \otimes e_7$	{123456, 159, 237, 4679}
941:85	$0, 0, 0, 0, 0, \frac{20}{629}\sqrt{6}e^{12}, \frac{10}{629}\sqrt{542}e^{34}, \frac{20}{629}\sqrt{2}e^{15} + \frac{20}{629}\sqrt{87}e^{23},$ $\frac{20}{629}\sqrt{85}e^{16} + \frac{10}{629}\sqrt{542}e^{45}$	$(-\frac{10}{629}, -\frac{10}{629}, \frac{10}{37}, -\frac{200}{629}, \frac{10}{37}, -\frac{20}{629}, -\frac{30}{629}, \frac{160}{629}, -\frac{30}{629})$ $+ \frac{10}{629}\sqrt{1286}e^3 \otimes e_9 - \frac{10}{629}\sqrt{946}e^5 \otimes e_7$	{123456, 159, 237, 4679}
941:85	$0, 0, 0, 0, 0, \frac{17}{1957}\sqrt{559}e^{12}, \frac{17}{1957}\sqrt{718}e^{34},$ $\frac{34}{1957}\sqrt{237}e^{15} + \frac{17}{1957}\sqrt{1195}e^{23}, \frac{34}{1957}\sqrt{231}e^{16} + \frac{17}{1957}\sqrt{565}e^{45}$	$(-\frac{68}{1957}, \frac{85}{1957}, \frac{238}{1957}, -\frac{442}{1957}, \frac{391}{1957}, \frac{17}{1957}, -\frac{204}{1957}, \frac{17}{103}, -\frac{51}{1957})$ $+ \frac{17}{1957}\sqrt{1990}e^3 \otimes e_9 + \frac{85}{1957}\sqrt{61}e^2 \otimes e_7$	{12589, 378}
941:85	$0, 0, 0, 0, 0, \frac{8}{913}\sqrt{214}e^{12}, \frac{8}{913}\sqrt{506}e^{34}, \frac{48}{913}\sqrt{5}e^{15} + \frac{16}{913}\sqrt{295}e^{23},$ $\frac{32}{913}\sqrt{29}e^{16} + \frac{24}{913}\sqrt{106}e^{45}$	$(\frac{72}{913}, -\frac{152}{913}, \frac{120}{913}, \frac{96}{913}, -\frac{104}{913}, -\frac{80}{913}, \frac{216}{913}, -\frac{32}{913}, -\frac{8}{913})$ $+ \frac{32}{913}\sqrt{113}e^3 \otimes e_9 + \frac{8}{913}\sqrt{1486}e^4 \otimes e_8$	{1479, 2345}
941:85	$0, 0, 0, 0, 0, \frac{4}{2665}\sqrt{14053}e^{12}, \frac{16}{2665}\sqrt{16215}e^{34},$ $\frac{66}{2665}\sqrt{1081}e^{15} + \frac{4}{2665}\sqrt{143773}e^{23}, \frac{2}{2665}\sqrt{362135}e^{16} + \frac{2}{2665}\sqrt{342677}e^{45}$	$(-\frac{301}{2665}, \frac{197}{533}, -\frac{27}{2665}, -\frac{876}{2665}, \frac{1259}{2665}, \frac{684}{2665}, -\frac{903}{2665}, \frac{958}{2665}, \frac{383}{2665})$ $+ \frac{4}{2665}\sqrt{611846}e^5 \otimes e_7$	{12569, 1345, 2479, 367}
941:85	$0, 0, 0, 0, 0, \frac{12}{2801}\sqrt{1246}e^{12}, \frac{12}{2801}\sqrt{6942}e^{34},$ $\frac{6}{2801}\sqrt{71823}e^{15} + \frac{36}{2801}\sqrt{2670}e^{23}, \frac{6}{2801}\sqrt{83749}e^{16} + \frac{6}{2801}\sqrt{69865}e^{45}$	$(\frac{251}{2801}, -\frac{695}{2801}, \frac{1409}{2801}, -\frac{656}{2801}, \frac{463}{2801}, -\frac{444}{2801}, \frac{753}{2801}, \frac{714}{2801}, -\frac{193}{2801})$ $+ \frac{12}{2801}\sqrt{52510}e^3 \otimes e_9$	{12589, 134568, 246789, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:85	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{305}e^{12}, \frac{4}{141}\sqrt{610}e^{34}, \frac{2}{141}\sqrt{1159}e^{15} + \frac{10}{141}\sqrt{61}e^{23},$ $\frac{8}{141}\sqrt{61}e^{16} + \frac{4}{141}\sqrt{61}e^{45}$	$(-\frac{17}{141}, \frac{71}{141}, -\frac{40}{141}, -\frac{11}{141}, \frac{16}{47}, \frac{18}{47}, -\frac{17}{47}, \frac{31}{141}, \frac{37}{141})$ $+ \frac{4}{141}\sqrt{1769}e^2 \otimes e_7$	{135678, 1467, 234569, 2689}
941:86	$0, 0, 0, 0, 0, \frac{20}{327}\sqrt{10}e^{12}, \frac{10}{327}\sqrt{85}e^{34}, \frac{10}{327}\sqrt{85}e^{35},$ $\frac{10}{327}\sqrt{91}e^{13} + \frac{10}{327}\sqrt{14}e^{26} + \frac{10}{327}\sqrt{78}e^{45}$	$(\frac{80}{327}, -\frac{25}{327}, -\frac{50}{327}, \frac{5}{109}, \frac{5}{109}, \frac{55}{327}, -\frac{35}{327}, -\frac{35}{327}, \frac{10}{109})$ $+ \frac{10}{327}\sqrt{149}e^4 \otimes e_8 + \frac{10}{327}\sqrt{149}e^5 \otimes e_7$	{23456, 23678, 345, 378}
941:86	$0, 0, 0, 0, 0, \frac{20}{327}\sqrt{10}e^{12}, \frac{10}{327}\sqrt{85}e^{34}, \frac{10}{327}\sqrt{85}e^{35},$ $\frac{10}{327}\sqrt{91}e^{13} + \frac{10}{327}\sqrt{14}e^{26} + \frac{10}{327}\sqrt{78}e^{45}$	$(\frac{80}{327}, -\frac{25}{327}, -\frac{50}{327}, \frac{5}{109}, \frac{5}{109}, \frac{55}{327}, \frac{35}{327}, -\frac{35}{327}, \frac{10}{109})$ $+ \frac{10}{327}\sqrt{149}e^4 \otimes e_8 - \frac{10}{327}\sqrt{149}e^5 \otimes e_7$	{23456, 23678, 345, 378}
941:86	$0, 0, 0, 0, 0, \frac{2}{2869}\sqrt{402970}e^{12}, \frac{16}{2869}\sqrt{6785}e^{34}, \frac{4}{2869}\sqrt{16815}e^{35},$ $\frac{2}{2869}\sqrt{362555}e^{13} + \frac{12}{2869}\sqrt{12685}e^{26} + \frac{2}{2869}\sqrt{161070}e^{45}$	$(\frac{244}{2869}, -\frac{45}{2869}, -\frac{90}{2869}, -\frac{545}{2869}, \frac{699}{2869}, \frac{199}{2869}, -\frac{635}{2869}, \frac{609}{2869}, \frac{154}{2869})$ $+ \frac{4}{2869}\sqrt{183490}e^2 \otimes e_7$	{123459, 136789, 23468, 357}
941:86	$0, 0, 0, 0, 0, \frac{2}{725}\sqrt{34662}e^{12}, \frac{4}{725}\sqrt{15369}e^{34}, \frac{4}{725}\sqrt{15369}e^{35},$ $\frac{18}{725}\sqrt{763}e^{13} + \frac{4}{725}\sqrt{4251}e^{26} + \frac{18}{725}\sqrt{654}e^{45}$	$(\frac{212}{725}, -\frac{1}{25}, -\frac{2}{25}, \frac{15}{29}, -\frac{221}{725}, \frac{183}{725}, \frac{317}{725}, -\frac{279}{725}, \frac{154}{725})$ $+ \frac{4}{725}\sqrt{48723}e^4 \otimes e_8$	{23456, 23678, 345, 378}
941:86	$0, 0, 0, 0, 0, \frac{135}{563}\sqrt{3}e^{12}, \frac{9}{563}\sqrt{1011}e^{34}, \frac{54}{563}\sqrt{7}e^{35},$ $\frac{54}{563}\sqrt{3}e^{13} + \frac{9}{563}\sqrt{102}e^{26} + \frac{9}{563}\sqrt{201}e^{45}$	$(\frac{225}{563}, \frac{63}{563}, \frac{126}{563}, \frac{108}{563}, -\frac{9}{563}, \frac{162}{563}, -\frac{18}{563}, -\frac{135}{563}, \frac{99}{563})$ $+ \frac{9}{563}\sqrt{1461}e^4 \otimes e_8 + \frac{9}{563}\sqrt{1518}e^1 \otimes e_7$	{23678, 378}
941:86	$0, 0, 0, 0, 0, \frac{1}{100}\sqrt{298}e^{12}, \frac{1}{100}\sqrt{354}e^{34}, \frac{1}{50}\sqrt{26}e^{35},$ $\frac{1}{50}\sqrt{78}e^{13} + \frac{1}{50}\sqrt{79}e^{26} + \frac{3}{100}\sqrt{6}e^{45}$	$(\frac{3}{25}, -\frac{1}{25}, -\frac{2}{25}, 0, \frac{1}{25}, \frac{2}{25}, -\frac{2}{25}, -\frac{1}{25}, \frac{1}{25})$ $+ \frac{1}{100}\sqrt{218}e^4 \otimes e_8 + \frac{1}{10}\sqrt{5}e^2 \otimes e_7$	{123459, 136789}
941:86	$0, 0, 0, 0, 0, \frac{5}{917}\sqrt{3930}e^{12}, \frac{30}{917}\sqrt{35}e^{34}, \frac{5}{917}\sqrt{3410}e^{35},$ $\frac{10}{917}\sqrt{655}e^{13} + \frac{5}{917}\sqrt{3830}e^{26} + \frac{5}{917}\sqrt{1610}e^{45}$	$(\frac{165}{917}, -\frac{50}{917}, -\frac{100}{917}, \frac{20}{131}, -\frac{75}{917}, \frac{115}{917}, \frac{40}{917}, -\frac{25}{131}, \frac{65}{917})$ $+ \frac{15}{917}\sqrt{690}e^2 \otimes e_8 + \frac{5}{917}\sqrt{1910}e^1 \otimes e_7$	{123459, 23567}
941:86	$0, 0, 0, 0, 0, \frac{2}{947}\sqrt{107070}e^{12}, \frac{30}{947}\sqrt{581}e^{34}, \frac{2}{947}\sqrt{32785}e^{35},$ $\frac{2}{947}\sqrt{71795}e^{13} + \frac{2}{947}\sqrt{10790}e^{26} + \frac{4}{947}\sqrt{9545}e^{45}$	$(\frac{516}{947}, -\frac{125}{947}, -\frac{250}{947}, -\frac{64}{947}, \frac{330}{947}, \frac{391}{947}, -\frac{314}{947}, \frac{80}{947}, \frac{266}{947})$ $+ \frac{4}{947}\sqrt{81755}e^1 \otimes e_7$	{1289, 1689, 24678, 478}
941:87	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42}e^{12}, \frac{1}{263}\sqrt{42}e^{34}, \frac{1}{263}\sqrt{78}e^{13} + \frac{1}{263}\sqrt{222}e^{45},$ $\frac{4}{263}\sqrt{11}e^{15} + \frac{3}{263}\sqrt{26}e^{26}$	$(-\frac{8}{263}, \frac{2}{263}, \frac{9}{263}, -\frac{3}{263}, \frac{4}{263}, -\frac{6}{263}, \frac{6}{263}, \frac{1}{263}, -\frac{4}{263})$ $+ \frac{2}{263}\sqrt{30}e^4 \otimes e_9 + \frac{4}{263}\sqrt{22}e^2 \otimes e_8$	{156789, 2456}
941:87	$0, 0, 0, 0, 0, \frac{2}{3001}\sqrt{954890}e^{12}, \frac{4}{3001}\sqrt{197251}e^{34},$ $\frac{12}{3001}\sqrt{10455}e^{13} + \frac{2}{3001}\sqrt{101065}e^{45}, \frac{2}{3001}\sqrt{396593}e^{15} + \frac{34}{3001}\sqrt{2870}e^{26}$	$(\frac{197}{3001}, \frac{441}{3001}, -\frac{134}{3001}, -\frac{819}{3001}, \frac{882}{3001}, \frac{638}{3001}, -\frac{953}{3001}, \frac{63}{3001}, \frac{1079}{3001})$ $+ \frac{2}{3001}\sqrt{1772471}e^2 \otimes e_7$	{1356789, 145679, 23456, 2568}
941:87	$0, 0, 0, 0, 0, \frac{2}{989}\sqrt{1054}e^{12}, \frac{10}{989}\sqrt{58}e^{34}, \frac{4}{989}\sqrt{218}e^{13} + \frac{2}{989}\sqrt{478}e^{45},$ $\frac{4}{989}\sqrt{5}e^{15} + \frac{8}{989}\sqrt{82}e^{26}$	$(\frac{2}{43}, -\frac{14}{989}, -\frac{48}{989}, \frac{26}{989}, -\frac{28}{989}, \frac{32}{989}, -\frac{22}{989}, -\frac{2}{989}, \frac{18}{989})$ $+ \frac{2}{989}\sqrt{1646}e^4 \otimes e_9 + \frac{4}{989}\sqrt{481}e^2 \otimes e_7$	{129, 478}
941:87	$0, 0, 0, 0, 0, \frac{4}{289}\sqrt{345}e^{12}, \frac{3}{289}\sqrt{322}e^{34}, \frac{9}{289}\sqrt{46}e^{13} + \frac{1}{289}\sqrt{6486}e^{45},$ $\frac{4}{289}\sqrt{437}e^{15} + \frac{7}{289}\sqrt{138}e^{26}$	$(-\frac{16}{289}, \frac{22}{289}, \frac{15}{289}, -\frac{45}{289}, \frac{44}{289}, \frac{6}{289}, -\frac{30}{289}, -\frac{1}{289}, \frac{28}{289})$ $+ \frac{16}{289}\sqrt{46}e^2 \otimes e_8$	{1234579, 156789, 2456, 358}
941:87	$0, 0, 0, 0, 0, \frac{4}{289}\sqrt{105}e^{12}, \frac{1}{289}\sqrt{1290}e^{34}, \frac{12}{289}\sqrt{10}e^{13} + \frac{1}{289}\sqrt{1770}e^{45},$ $\frac{1}{289}\sqrt{2570}e^{15} + \frac{12}{289}\sqrt{15}e^{26}$	$(-\frac{19}{289}, \frac{7}{289}, \frac{21}{289}, -\frac{12}{289}, \frac{14}{289}, -\frac{12}{289}, \frac{9}{289}, \frac{2}{289}, -\frac{5}{289})$ $+ \frac{2}{289}\sqrt{255}e^5 \otimes e_7 + \frac{5}{289}\sqrt{142}e^2 \otimes e_8$	{1234579, 156789}
941:87	$0, 0, 0, 0, 0, \frac{5}{2417}e^{12}, \frac{3}{2417}\sqrt{193}e^{34}, \frac{1}{2417}\sqrt{1310}e^{13} + \frac{1}{2417}\sqrt{933}e^{45},$ $\frac{2}{2417}\sqrt{402}e^{15} + \frac{1}{2417}\sqrt{362}e^{26}$	$(\frac{25}{2417}, -\frac{7}{2417}, -\frac{27}{2417}, \frac{12}{2417}, -\frac{14}{2417}, \frac{18}{2417}, -\frac{15}{2417}, -\frac{2}{2417}, \frac{11}{2417})$ $+ \frac{1}{2417}\sqrt{2321}e^4 \otimes e_9 + \frac{2}{2417}\sqrt{535}e^5 \otimes e_7$	{24678, 478}
941:87	$0, 0, 0, 0, 0, \frac{2}{2869}\sqrt{25645}e^{12}, \frac{2}{2869}\sqrt{1160715}e^{34},$ $\frac{2}{2869}\sqrt{826215}e^{13} + \frac{2}{2869}\sqrt{543005}e^{45}, \frac{4}{2869}\sqrt{308855}e^{15} + \frac{8}{2869}\sqrt{15610}e^{26}$	$(\frac{46}{2869}, \frac{637}{2869}, \frac{136}{2869}, -\frac{1092}{2869}, \frac{1274}{2869}, \frac{683}{2869}, -\frac{956}{2869}, \frac{182}{2869}, \frac{1320}{2869})$ $+ \frac{2}{2869}\sqrt{2712795}e^5 \otimes e_7$	{234569, 25689, 3459, 589}
941:87	$0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{83711}e^{12}, \frac{1}{1457}\sqrt{833658}e^{34},$ $\frac{11}{1457}\sqrt{5178}e^{13} + \frac{1}{1457}\sqrt{612730}e^{45}, \frac{2}{1457}\sqrt{187271}e^{15} + \frac{1}{1457}\sqrt{588566}e^{26}$	$(-\frac{388}{1457}, \frac{68}{1457}, \frac{13}{31}, \frac{87}{1457}, \frac{136}{1457}, -\frac{320}{1457}, \frac{698}{1457}, \frac{223}{1457}, -\frac{252}{1457})$ $+ \frac{6}{1457}\sqrt{59547}e^3 \otimes e_9$	{123567, 1357, 259, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:87	$0, 0, 0, 0, 0, \frac{52}{2687}\sqrt{111}e^{12}, \frac{39}{2687}\sqrt{82}e^{34},$ $\frac{39}{2687}\sqrt{166}e^{13} + \frac{13}{2687}\sqrt{2022}e^{45}, \frac{26}{2687}\sqrt{542}e^{15} + \frac{13}{2687}\sqrt{2514}e^{26}$	$(-\frac{260}{2687}, \frac{182}{2687}, \frac{273}{2687}, -\frac{351}{2687}, \frac{364}{2687}, -\frac{78}{2687}, -\frac{78}{2687}, \frac{13}{2687}, \frac{104}{2687})$ $+\frac{156}{2687}\sqrt{5}e^3 \otimes e_9 + \frac{26}{2687}\sqrt{1018}e^2 \otimes e_8$	{156789, 358}
941:87	$0, 0, 0, 0, 0, \frac{72}{383}e^{12}, \frac{4}{383}\sqrt{1218}e^{34}, \frac{16}{383}\sqrt{3}e^{13} + \frac{4}{383}\sqrt{255}e^{45},$ $\frac{4}{383}\sqrt{1239}e^{15} + \frac{12}{383}\sqrt{29}e^{26}$	$(-\frac{72}{383}, \frac{42}{383}, \frac{84}{383}, -\frac{72}{383}, \frac{84}{383}, -\frac{30}{383}, \frac{12}{383}, \frac{12}{383}, \frac{12}{383})$ $+\frac{20}{383}\sqrt{57}e^5 \otimes e_7 + \frac{4}{383}\sqrt{1707}e^3 \otimes e_9$	{259, 569}
941:87	$0, 0, 0, 0, 0, \frac{2}{379}\sqrt{2370}e^{12}, \frac{1}{379}\sqrt{60198}e^{34},$ $\frac{1}{379}\sqrt{40290}e^{13} + \frac{1}{379}\sqrt{39342}e^{45}, \frac{4}{379}\sqrt{2607}e^{15} + \frac{1}{379}\sqrt{45978}e^{26}$	$(\frac{40}{379}, -\frac{54}{379}, \frac{21}{379}, \frac{169}{379}, -\frac{108}{379}, -\frac{14}{379}, \frac{190}{379}, \frac{61}{379}, -\frac{68}{379})$ $+\frac{158}{379}\sqrt{6}e^4 \otimes e_9$	{129, 169, 24678, 478}
941:87	$0, 0, 0, 0, 0, \frac{25}{6221}\sqrt{2186}e^{12}, \frac{50}{6221}\sqrt{1129}e^{34},$ $\frac{50}{6221}\sqrt{51}e^{13} + \frac{25}{6221}\sqrt{1310}e^{45}, \frac{25}{6221}\sqrt{466}e^{15} + \frac{50}{6221}\sqrt{998}e^{26}$	$(-\frac{800}{6221}, \frac{525}{6221}, \frac{875}{6221}, -\frac{975}{6221}, \frac{1050}{6221}, -\frac{275}{6221}, -\frac{100}{6221}, \frac{75}{6221}, \frac{250}{6221})$ $+\frac{25}{6221}\sqrt{5214}e^3 \otimes e_9 + \frac{50}{6221}\sqrt{1493}e^2 \otimes e_7$	{1289, 378}
941:88	$0, 0, 0, 0, 0, \frac{30}{653}\sqrt{14}e^{12}, \frac{30}{653}\sqrt{22}e^{34}, \frac{20}{653}\sqrt{87}e^{13} + \frac{20}{653}\sqrt{107}e^{45},$ $\frac{120}{653}\sqrt{2}e^{16} + \frac{10}{653}\sqrt{782}e^{25}$	$(\frac{20}{653}, \frac{150}{653}, -\frac{70}{653}, -\frac{90}{653}, \frac{40}{653}, \frac{170}{653}, -\frac{160}{653}, -\frac{50}{653}, \frac{190}{653})$ $+\frac{30}{653}\sqrt{138}e^2 \otimes e_8 + \frac{40}{653}\sqrt{69}e^5 \otimes e_7$	{12345, 15689}
941:88	$0, 0, 0, 0, 0, \frac{88}{2393}\sqrt{35}e^{12}, \frac{22}{2393}\sqrt{753}e^{34},$ $\frac{22}{2393}\sqrt{669}e^{13} + \frac{22}{2393}\sqrt{535}e^{45}, \frac{220}{2393}e^{16} + \frac{44}{2393}\sqrt{299}e^{25}$	$(\frac{176}{2393}, -\frac{451}{2393}, \frac{143}{2393}, -\frac{33}{2393}, \frac{352}{2393}, -\frac{275}{2393}, \frac{110}{2393}, \frac{319}{2393}, -\frac{99}{2393})$ $+\frac{132}{2393}\sqrt{23}e^5 \otimes e_7 + \frac{44}{2393}\sqrt{345}e^3 \otimes e_9$	{2479, 3678}
941:88	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{145}e^{12}, \frac{1}{65}\sqrt{255}e^{34}, \frac{1}{65}\sqrt{190}e^{13} + \frac{1}{13}\sqrt{3}e^{45},$ $\frac{4}{65}\sqrt{10}e^{16} + \frac{3}{65}\sqrt{10}e^{25}$	$(-\frac{1}{13}, \frac{2}{13}, 0, \frac{1}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0)$ $+\frac{3}{65}\sqrt{30}e^2 \otimes e_7 + \frac{3}{65}\sqrt{35}e^4 \otimes e_9$	{129, 478}
941:88	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{2}e^{34}, \frac{4}{29}\sqrt{3}e^{13} + \frac{8}{29}\sqrt{2}e^{45},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{14}e^{25}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{42}e^2 \otimes e_8 + \frac{4}{29}\sqrt{15}e^4 \otimes e_9$	{129, 13468, 23679, 478}
941:88	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{2}e^{34}, \frac{4}{29}\sqrt{3}e^{13} + \frac{8}{29}\sqrt{2}e^{45},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{14}e^{25}$	$(-\frac{4}{29}, \frac{6}{29}, \frac{2}{29}, \frac{6}{29}, -\frac{8}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{42}e^2 \otimes e_8 - \frac{4}{29}\sqrt{15}e^4 \otimes e_9$	{129, 13468, 23679, 478}
941:88	$0, 0, 0, 0, 0, \frac{4}{41}\sqrt{22}e^{12}, \frac{12}{41}\sqrt{2}e^{34}, \frac{8}{41}\sqrt{13}e^{13} + \frac{8}{41}\sqrt{7}e^{45},$ $\frac{8}{41}\sqrt{6}e^{16} + \frac{4}{41}\sqrt{46}e^{25}$	$(-\frac{6}{41}, \frac{24}{41}, -\frac{2}{41}, \frac{4}{41}, -\frac{12}{41}, \frac{18}{41}, \frac{2}{41}, -\frac{8}{41}, \frac{12}{41})$ $+\frac{4}{41}\sqrt{138}e^2 \otimes e_8$	{123457, 156789, 2456, 3589}
941:88	$0, 0, 0, 0, 0, \frac{1}{100}\sqrt{66}e^{12}, \frac{3}{100}\sqrt{30}e^{34}, \frac{1}{50}\sqrt{57}e^{13} + \frac{1}{100}\sqrt{218}e^{45},$ $\frac{1}{50}\sqrt{51}e^{16} + \frac{1}{50}\sqrt{26}e^{25}$	$(\frac{1}{25}, -\frac{3}{25}, \frac{1}{25}, 0, \frac{2}{25}, -\frac{2}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{1}{25})$ $+\frac{1}{50}\sqrt{78}e^5 \otimes e_7 + \frac{3}{100}\sqrt{46}e^4 \otimes e_9$	{23679, 478}
941:88	$0, 0, 0, 0, 0, \frac{2}{163}\sqrt{330}e^{12}, \frac{6}{163}\sqrt{30}e^{34}, \frac{4}{163}\sqrt{219}e^{13} + \frac{4}{163}\sqrt{105}e^{45},$ $\frac{16}{163}\sqrt{3}e^{16} + \frac{2}{163}\sqrt{966}e^{25}$	$(-\frac{16}{163}, \frac{18}{163}, \frac{10}{163}, \frac{26}{163}, -\frac{32}{163}, \frac{2}{163}, \frac{36}{163}, -\frac{6}{163}, -\frac{14}{163})$ $+\frac{2}{163}\sqrt{690}e^2 \otimes e_8 + \frac{8}{163}\sqrt{69}e^3 \otimes e_9$	{2479, 3678}
941:88	$0, 0, 0, 0, 0, \frac{1}{331}\sqrt{43510}e^{12}, \frac{1}{331}\sqrt{64578}e^{34},$ $\frac{1}{331}\sqrt{21526}e^{13} + \frac{3}{331}\sqrt{2290}e^{45}, \frac{2}{331}\sqrt{229}e^{16} + \frac{1}{331}\sqrt{42594}e^{25}$	$(\frac{2}{331}, \frac{143}{331}, -\frac{42}{331}, -\frac{44}{331}, \frac{4}{331}, \frac{145}{331}, -\frac{86}{331}, -\frac{40}{331}, \frac{147}{331})$ $+\frac{3}{331}\sqrt{14198}e^2 \otimes e_7$	{13678, 1467, 23469, 2689}
941:88	$0, 0, 0, 0, 0, \frac{3}{1565}\sqrt{798}e^{12}, \frac{3}{1565}\sqrt{3462}e^{34},$ $\frac{3}{1565}\sqrt{2190}e^{13} + \frac{9}{1565}\sqrt{354}e^{45}, \frac{18}{1565}\sqrt{10}e^{16} + \frac{3}{1565}\sqrt{4578}e^{25}$	$(-\frac{12}{313}, \frac{99}{1565}, \frac{6}{1565}, \frac{66}{1565}, -\frac{24}{313}, \frac{39}{1565}, \frac{72}{1565}, -\frac{54}{1565}, -\frac{21}{1565})$ $+\frac{3}{1565}\sqrt{3702}e^2 \otimes e_7 + \frac{6}{1565}\sqrt{1254}e^3 \otimes e_9$	{12689, 3678}
941:88	$0, 0, 0, 0, 0, \frac{20}{623}\sqrt{254}e^{12}, \frac{2}{623}\sqrt{24765}e^{34},$ $\frac{2}{623}\sqrt{38481}e^{13} + \frac{2}{623}\sqrt{33655}e^{45}, \frac{8}{623}\sqrt{127}e^{16} + \frac{8}{623}\sqrt{2921}e^{25}$	$(-\frac{16}{623}, -\frac{97}{623}, \frac{125}{623}, \frac{141}{623}, -\frac{32}{623}, \frac{113}{623}, \frac{38}{89}, \frac{109}{623}, -\frac{129}{623})$ $+\frac{4}{623}\sqrt{17526}e^3 \otimes e_9$	{12689, 134, 2479, 3678}
941:88	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{38}e^{12}, \frac{6}{29}\sqrt{2}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{45},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{25}$	$(\frac{1}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{4}{29}, \frac{2}{29}, \frac{7}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{2}{29}\sqrt{42}e^2 \otimes e_8 - \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1568, 245679, 3578}
941:88	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{38}e^{12}, \frac{6}{29}\sqrt{2}e^{34}, \frac{4}{29}\sqrt{2}e^{13} + \frac{4}{29}\sqrt{3}e^{45},$ $\frac{4}{29}\sqrt{6}e^{16} + \frac{2}{29}\sqrt{6}e^{25}$	$(\frac{1}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{4}{29}, \frac{2}{29}, \frac{7}{29}, -\frac{7}{29}, -\frac{2}{29}, \frac{8}{29})$ $+\frac{2}{29}\sqrt{42}e^2 \otimes e_8 + \frac{4}{29}\sqrt{15}e^1 \otimes e_7$	{123459, 1568, 245679, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:88	$0, 0, 0, 0, 0, \frac{28}{1937}\sqrt{15}e^{12}, \frac{14}{1937}\sqrt{645}e^{34},$ $\frac{70}{1937}\sqrt{17}e^{13} + \frac{42}{1937}\sqrt{47}e^{45}, \frac{28}{1937}\sqrt{95}e^{16} + \frac{28}{1937}\sqrt{93}e^{25}$	$(\frac{112}{1937}, -\frac{259}{1937}, \frac{63}{1937}, -\frac{49}{1937}, \frac{224}{1937}, -\frac{147}{1937}, \frac{14}{1937}, \frac{175}{1937}, -\frac{35}{1937})$ $+ \frac{112}{1937}\sqrt{15}e^3 \otimes e_9 + \frac{28}{1937}\sqrt{201}e^1 \otimes e_7$	{1289, 1346, 24679, 378}
941:88	$0, 0, 0, 0, 0, \frac{28}{1937}\sqrt{15}e^{12}, \frac{14}{1937}\sqrt{645}e^{34},$ $\frac{70}{1937}\sqrt{17}e^{13} + \frac{42}{1937}\sqrt{47}e^{45}, \frac{28}{1937}\sqrt{95}e^{16} + \frac{28}{1937}\sqrt{93}e^{25}$	$(\frac{112}{1937}, -\frac{259}{1937}, \frac{63}{1937}, -\frac{49}{1937}, \frac{224}{1937}, -\frac{147}{1937}, \frac{14}{1937}, \frac{175}{1937}, -\frac{35}{1937})$ $+ \frac{112}{1937}\sqrt{15}e^3 \otimes e_9 - \frac{28}{1937}\sqrt{201}e^1 \otimes e_7$	{1289, 1346, 24679, 378}
941:89	$0, 0, 0, 0, 0, \frac{31}{1273}\sqrt{934}e^{12}, \frac{31}{1273}\sqrt{407}e^{14} + \frac{93}{1273}\sqrt{113}e^{35},$ $-\frac{31}{1273}\sqrt{663}e^{13} + \frac{31}{1273}\sqrt{53}e^{45}, \frac{31}{1273}\sqrt{286}e^{16} + \frac{434}{1273}e^{34}$	$(-\frac{279}{1273}, \frac{806}{1273}, \frac{124}{1273}, \frac{124}{1273}, -\frac{279}{1273}, \frac{527}{1273}, -\frac{155}{1273}, -\frac{155}{1273}, \frac{248}{1273})$ $+ \frac{62}{1273}\sqrt{535}e^2 \otimes e_7$	{1234589, 13678, 2689, 4578, 1234589, 13678, 2689, 4578}
941:89	$0, 0, 0, 0, 0, \frac{31}{1273}\sqrt{934}e^{12}, \frac{31}{1273}\sqrt{407}e^{14} + \frac{93}{1273}\sqrt{113}e^{35},$ $\frac{31}{1273}\sqrt{663}e^{13} + \frac{31}{1273}\sqrt{53}e^{45}, \frac{31}{1273}\sqrt{286}e^{16} + \frac{434}{1273}e^{34}$	$(-\frac{279}{1273}, \frac{806}{1273}, \frac{124}{1273}, \frac{124}{1273}, -\frac{279}{1273}, \frac{527}{1273}, -\frac{155}{1273}, -\frac{155}{1273}, \frac{248}{1273})$ $+ \frac{62}{1273}\sqrt{535}e^2 \otimes e_7$	{1234589, 13678, 2689, 4578, 1234589, 13678, 2689, 4578}
941:89	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{57}e^{12}, \frac{5}{27}\sqrt{3}e^{14} + \frac{2}{9}\sqrt{2}e^{35},$ $-\frac{5}{27}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{2}e^{45}, \frac{4}{27}\sqrt{6}e^{16} + \frac{2}{27}\sqrt{6}e^{34}$	$(\frac{1}{9}, -\frac{2}{9}, 0, 0, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, 0)$ $+ \frac{1}{27}\sqrt{141}e^5 \otimes e_9$	{23679, 345, 578, 23679, 345, 578}
941:89	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{57}e^{12}, \frac{5}{27}\sqrt{3}e^{14} + \frac{2}{9}\sqrt{2}e^{35},$ $\frac{5}{27}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{2}e^{45}, \frac{4}{27}\sqrt{6}e^{16} + \frac{2}{27}\sqrt{6}e^{34}$	$(\frac{1}{9}, -\frac{2}{9}, 0, 0, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, 0)$ $+ \frac{1}{27}\sqrt{141}e^5 \otimes e_9$	{23679, 345, 578, 23679, 345, 578}
941:89	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{7}e^{12}, \frac{4}{73}\sqrt{206}e^{14} + \frac{4}{73}\sqrt{58}e^{35},$ $-\frac{4}{73}\sqrt{206}e^{13} + \frac{4}{73}\sqrt{58}e^{45}, \frac{8}{73}\sqrt{23}e^{16} + \frac{8}{73}\sqrt{26}e^{34}$	$(\frac{24}{73}, -\frac{40}{73}, \frac{4}{73}, \frac{4}{73}, \frac{24}{73}, -\frac{16}{73}, \frac{28}{73}, \frac{28}{73}, \frac{8}{73})$ $+ \frac{8}{73}\sqrt{127}e^1 \otimes e_2$	{1349, 1789, 238, 1349, 1789, 238}
941:89	$0, 0, 0, 0, 0, \frac{16}{73}\sqrt{7}e^{12}, \frac{4}{73}\sqrt{206}e^{14} + \frac{4}{73}\sqrt{58}e^{35},$ $\frac{4}{73}\sqrt{206}e^{13} + \frac{4}{73}\sqrt{58}e^{45}, \frac{8}{73}\sqrt{23}e^{16} + \frac{8}{73}\sqrt{26}e^{34}$	$(\frac{24}{73}, -\frac{40}{73}, \frac{4}{73}, \frac{4}{73}, \frac{24}{73}, -\frac{16}{73}, \frac{28}{73}, \frac{28}{73}, \frac{8}{73})$ $+ \frac{8}{73}\sqrt{127}e^1 \otimes e_2$	{1349, 1789, 238, 1349, 1789, 238}
941:90	$0, 0, 0, 0, 0, \frac{48}{829}\sqrt{65}e^{12}, \frac{108}{829}\sqrt{10}e^{14} + \frac{12}{829}\sqrt{1330}e^{35},$ $-\frac{12}{829}\sqrt{614}e^{13} + \frac{12}{829}\sqrt{94}e^{45}, \frac{24}{829}\sqrt{341}e^{26} + \frac{24}{829}\sqrt{194}e^{34}$	$(-\frac{192}{829}, \frac{228}{829}, \frac{132}{829}, \frac{132}{829}, \frac{192}{829}, \frac{36}{829}, -\frac{60}{829}, -\frac{60}{829}, \frac{264}{829})$ $+ \frac{48}{829}\sqrt{178}e^2 \otimes e_7$	{1234589, 15679, 2356, 4578, 1234589, 15679, 2356, 4578}
941:90	$0, 0, 0, 0, 0, \frac{48}{829}\sqrt{65}e^{12}, \frac{108}{829}\sqrt{10}e^{14} + \frac{12}{829}\sqrt{1330}e^{35},$ $\frac{12}{829}\sqrt{614}e^{13} + \frac{12}{829}\sqrt{94}e^{45}, \frac{24}{829}\sqrt{341}e^{26} + \frac{24}{829}\sqrt{194}e^{34}$	$(-\frac{192}{829}, \frac{228}{829}, \frac{132}{829}, \frac{132}{829}, \frac{192}{829}, \frac{36}{829}, -\frac{60}{829}, -\frac{60}{829}, \frac{264}{829})$ $+ \frac{48}{829}\sqrt{178}e^2 \otimes e_7$	{1234589, 15679, 2356, 4578, 1234589, 15679, 2356, 4578}
941:90	$0, 0, 0, 0, 0, \frac{16}{105}\sqrt{10}e^{12}, \frac{8}{105}\sqrt{43}e^{14} + \frac{8}{105}\sqrt{65}e^{35},$ $-\frac{8}{105}\sqrt{43}e^{13} + \frac{8}{105}\sqrt{65}e^{45}, \frac{8}{105}\sqrt{58}e^{26} + \frac{16}{35}e^{34}$	$(\frac{8}{21}, -\frac{32}{105}, -\frac{4}{35}, -\frac{4}{35}, \frac{8}{21}, \frac{8}{105}, \frac{4}{15}, \frac{4}{15}, -\frac{8}{35})$ $+ \frac{32}{105}\sqrt{11}e^5 \otimes e_9$	{23456, 25678, 345, 578, 23456, 25678, 345, 578}
941:90	$0, 0, 0, 0, 0, \frac{16}{105}\sqrt{10}e^{12}, \frac{8}{105}\sqrt{43}e^{14} + \frac{8}{105}\sqrt{65}e^{35},$ $\frac{8}{105}\sqrt{43}e^{13} + \frac{8}{105}\sqrt{65}e^{45}, \frac{8}{105}\sqrt{58}e^{26} + \frac{16}{35}e^{34}$	$(\frac{8}{21}, -\frac{32}{105}, -\frac{4}{35}, -\frac{4}{35}, \frac{8}{21}, \frac{8}{105}, \frac{4}{15}, \frac{4}{15}, -\frac{8}{35})$ $+ \frac{32}{105}\sqrt{11}e^5 \otimes e_9$	{23456, 25678, 345, 578, 23456, 25678, 345, 578}
941:91	$0, 0, 0, 0, 0, \frac{7}{57}\sqrt{5}e^{12}, \frac{2}{57}\sqrt{95}e^{14} + \frac{5}{57}\sqrt{11}e^{35},$ $\frac{1}{57}\sqrt{290}e^{23} + \frac{5}{57}\sqrt{11}e^{45}, \frac{1}{19}\sqrt{30}e^{16} + \frac{2}{57}\sqrt{35}e^{34}$	$(-\frac{7}{57}, \frac{11}{57}, -\frac{2}{19}, \frac{1}{19}, \frac{2}{57}, \frac{4}{57}, -\frac{4}{57}, \frac{5}{57}, -\frac{1}{19})$ $+ \frac{1}{57}\sqrt{505}e^5 \otimes e_9$	{345, 578}
941:91	$0, 0, 0, 0, 0, \frac{41}{4693}\sqrt{1478}e^{12}, \frac{41}{4693}\sqrt{1898}e^{14} + \frac{41}{4693}\sqrt{1182}e^{35},$ $\frac{41}{4693}\sqrt{3054}e^{23} + \frac{246}{4693}\sqrt{79}e^{45}, \frac{1394}{4693}\sqrt{3}e^{16} + \frac{2214}{4693}e^{34}$	$(\frac{1271}{4693}, -\frac{123}{361}, \frac{1189}{4693}, -\frac{246}{4693}, -\frac{164}{4693}, -\frac{328}{4693}, \frac{1025}{4693}, -\frac{410}{4693}, \frac{943}{4693})$ $+ \frac{82}{4693}\sqrt{2013}e^1 \otimes e_8$	{1456, 25689}
941:91	$0, 0, 0, 0, 0, \frac{11}{905}\sqrt{830}e^{12}, \frac{11}{905}\sqrt{3290}e^{14} + \frac{22}{905}\sqrt{510}e^{35},$ $\frac{11}{905}\sqrt{3270}e^{23} + \frac{11}{905}\sqrt{1830}e^{45}, \frac{22}{905}\sqrt{15}e^{16} + \frac{66}{181}\sqrt{2}e^{34}$	$(-\frac{55}{181}, \frac{99}{181}, -\frac{44}{181}, \frac{33}{181}, \frac{22}{181}, \frac{44}{181}, \frac{22}{181}, \frac{55}{181}, -\frac{11}{181})$ $+ \frac{66}{905}\sqrt{215}e^2 \otimes e_7$	{15679, 2356}
941:92	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{12}\sqrt{3}e^{14},$ $\frac{1}{6}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{3}e^{26}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, 0, -\frac{1}{8}, 0)$ $+ \frac{1}{12}\sqrt{30}e^3 \otimes e_9 + \frac{1}{6}\sqrt{3}e^2 \otimes e_8 + \frac{1}{6}\sqrt{6}e^5 \otimes e_7$	{12356, 13458, 2459, 5689}
941:92	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{2}e^{13}, \frac{1}{12}\sqrt{3}e^{14},$ $\frac{1}{6}\sqrt{3}e^{15} + \frac{1}{6}\sqrt{3}e^{26}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, 0, -\frac{1}{8}, 0)$ $+ \frac{1}{12}\sqrt{30}e^3 \otimes e_9 + \frac{1}{6}\sqrt{3}e^2 \otimes e_8 - \frac{1}{6}\sqrt{6}e^5 \otimes e_7$	{12356, 13458, 2459, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:92	$0, 0, 0, 0, 0, \frac{2}{319}\sqrt{10230}e^{12}, \frac{2}{319}\sqrt{10230}e^{13}, \frac{2}{319}\sqrt{2418}e^{14},$ $\frac{2}{319}\sqrt{8835}e^{15} + \frac{6}{319}\sqrt{1426}e^{26}$	$(-\frac{52}{319}, \frac{71}{319}, -\frac{63}{319}, \frac{73}{319}, \frac{142}{319}, \frac{19}{319}, -\frac{115}{319}, \frac{21}{319}, \frac{90}{319})$ $+\frac{8}{319}\sqrt{1581}e^2 \otimes e_7$	{1234589, 12359, 1456789, 15679, 2456, 2568, 3457, 3578}
941:92	$0, 0, 0, 0, 0, \frac{7}{314}\sqrt{903}e^{12}, \frac{1}{157}\sqrt{8729}e^{13}, \frac{7}{314}\sqrt{903}e^{14},$ $\frac{1}{157}\sqrt{11739}e^{15} + \frac{3}{314}\sqrt{602}e^{26}$	$(\frac{147}{314}, -\frac{27}{628}, -\frac{77}{157}, -\frac{45}{628}, -\frac{27}{314}, \frac{267}{314}, -\frac{7}{314}, \frac{249}{628}, \frac{60}{157})$ $+\frac{1}{314}\sqrt{158326}e^1 \otimes e_3$	{1245, 1258, 1456, 1568, 2345689, 23569, 34589, 359}
941:92	$0, 0, 0, 0, 0, \frac{4}{193}\sqrt{165}e^{12}, \frac{4}{193}\sqrt{165}e^{13}, \frac{2}{193}\sqrt{110}e^{14},$ $\frac{2}{193}\sqrt{627}e^{15} + \frac{2}{193}\sqrt{638}e^{26}$	$(\frac{20}{193}, -\frac{1}{193}, -\frac{43}{193}, \frac{7}{193}, -\frac{2}{193}, \frac{19}{193}, -\frac{23}{193}, \frac{27}{193}, \frac{18}{193})$ $+\frac{20}{193}\sqrt{11}e^2 \otimes e_7 + \frac{4}{193}\sqrt{209}e^1 \otimes e_5$	{24568, 256, 34578, 357}
941:92	$0, 0, 0, 0, 0, \frac{4}{1267}\sqrt{3414}e^{12}, \frac{2}{3801}\sqrt{627607}e^{13}, \frac{2}{3801}\sqrt{354487}e^{14},$ $\frac{2}{3801}\sqrt{511531}e^{15} + \frac{4}{3801}\sqrt{58038}e^{26}$	$(\frac{144}{1267}, -\frac{275}{3801}, \frac{340}{1267}, -\frac{706}{3801}, -\frac{550}{3801}, \frac{157}{3801}, \frac{484}{1267}, -\frac{274}{3801}, -\frac{118}{3801})$ $+\frac{2}{3801}\sqrt{1009406}e^3 \otimes e_9 + \frac{2}{3801}\sqrt{954782}e^1 \otimes e_4$	{1279, 1679, 23467, 347}
941:92	$0, 0, 0, 0, 0, \frac{2}{3449}\sqrt{149055}e^{12}, \frac{2}{3449}\sqrt{342285}e^{13}, \frac{4}{3449}\sqrt{25935}e^{14},$ $\frac{2}{3449}\sqrt{89205}e^{15} + \frac{114}{3449}\sqrt{110}e^{26}$	$(-\frac{728}{3449}, \frac{316}{3449}, \frac{474}{3449}, \frac{683}{3449}, \frac{632}{3449}, -\frac{412}{3449}, -\frac{254}{3449}, -\frac{45}{3449}, -\frac{96}{3449})$ $+\frac{12}{3449}\sqrt{10735}e^3 \otimes e_9 + \frac{2}{3449}\sqrt{505590}e^2 \otimes e_7$	{1456789, 15679, 3457, 3578}
941:92	$0, 0, 0, 0, 0, \frac{1}{320}\sqrt{16017}e^{12}, \frac{1}{320}\sqrt{59010}e^{13}, \frac{1}{320}\sqrt{16017}e^{14},$ $\frac{1}{160}\sqrt{8711}e^{15} + \frac{1}{160}\sqrt{12083}e^{26}$	$(-\frac{57}{320}, -\frac{9}{640}, \frac{43}{640}, \frac{163}{640}, -\frac{9}{320}, -\frac{123}{640}, \frac{79}{160}, \frac{49}{640}, -\frac{33}{160})$ $+\frac{1}{320}\sqrt{150054}e^3 \otimes e_9$	{1234568, 12356, 13458, 135, 2459, 2589, 4569, 5689}
941:92	$0, 0, 0, 0, 0, \frac{19}{71}e^{12}, \frac{1}{142}\sqrt{3534}e^{13}, \frac{1}{142}\sqrt{3534}e^{14},$ $\frac{5}{71}\sqrt{19}e^{15} + \frac{2}{71}\sqrt{57}e^{26}$	$(-\frac{19}{71}, \frac{9}{71}, \frac{15}{71}, \frac{18}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71})$ $+\frac{1}{142}\sqrt{4978}e^3 \otimes e_8 + \frac{1}{142}\sqrt{4978}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 3679}
941:92	$0, 0, 0, 0, 0, \frac{19}{71}e^{12}, \frac{1}{142}\sqrt{3534}e^{13}, \frac{1}{142}\sqrt{3534}e^{14},$ $\frac{5}{71}\sqrt{19}e^{15} + \frac{2}{71}\sqrt{57}e^{26}$	$(-\frac{19}{71}, \frac{9}{71}, \frac{15}{71}, \frac{18}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71})$ $+\frac{1}{142}\sqrt{4978}e^3 \otimes e_8 - \frac{1}{142}\sqrt{4978}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 3679}
941:92	$0, 0, 0, 0, 0, \frac{46}{3221}\sqrt{267}e^{12}, \frac{69}{3221}\sqrt{262}e^{13}, \frac{69}{3221}\sqrt{86}e^{14},$ $\frac{46}{3221}\sqrt{178}e^{15} + \frac{1}{3221}\sqrt{614}e^{26}$	$(-\frac{667}{3221}, \frac{276}{3221}, \frac{414}{3221}, \frac{690}{3221}, \frac{552}{3221}, -\frac{391}{3221}, -\frac{253}{3221}, \frac{23}{3221}, -\frac{115}{3221})$ $+\frac{23}{3221}\sqrt{214}e^5 \otimes e_8 + \frac{23}{3221}\sqrt{3470}e^2 \otimes e_7 + \frac{46}{3221}\sqrt{645}e^3 \otimes e_9$	{1456789, 3578}
941:92	$0, 0, 0, 0, 0, \frac{1}{580}\sqrt{41173}e^{12}, \frac{3}{580}\sqrt{2090}e^{13}, \frac{1}{580}\sqrt{41173}e^{14},$ $\frac{1}{290}\sqrt{6479}e^{15} + \frac{1}{290}\sqrt{22363}e^{26}$	$(-\frac{113}{580}, \frac{129}{1160}, \frac{45}{116}, -\frac{63}{1160}, \frac{129}{580}, -\frac{97}{1160}, \frac{28}{145}, -\frac{289}{1160}, \frac{4}{145})$ $+\frac{1}{290}\sqrt{32395}e^2 \otimes e_8 + \frac{1}{580}\sqrt{84854}e^3 \otimes e_9$	{124579, 156789, 23567, 34578}
941:92	$0, 0, 0, 0, 0, \frac{6}{437}\sqrt{1335}e^{12}, \frac{2}{437}\sqrt{5785}e^{13}, \frac{4}{437}\sqrt{267}e^{14},$ $\frac{6}{437}\sqrt{445}e^{15} + \frac{2}{437}\sqrt{10146}e^{26}$	$(\frac{24}{437}, \frac{48}{437}, -\frac{154}{437}, \frac{39}{437}, \frac{96}{437}, \frac{72}{437}, -\frac{130}{437}, \frac{63}{437}, \frac{120}{437})$ $+\frac{2}{437}\sqrt{21894}e^2 \otimes e_7 + \frac{4}{437}\sqrt{3115}e^1 \otimes e_3$	{145679, 156789, 34578, 357}
941:92	$0, 0, 0, 0, 0, \frac{1}{25}e^{12}, \frac{1}{250}\sqrt{1510}e^{13}, \frac{1}{125}\sqrt{215}e^{14},$ $\frac{1}{250}\sqrt{1430}e^{15} + \frac{2}{125}\sqrt{10}e^{26}$	$(-\frac{1}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{2}{25}, \frac{2}{25}, 0, \frac{1}{25}, -\frac{3}{25}, \frac{1}{25})$ $-\frac{1}{250}\sqrt{1570}e^5 \otimes e_7 + \frac{1}{50}\sqrt{66}e^3 \otimes e_9 + \frac{2}{125}\sqrt{95}e^1 \otimes e_4$	{12356, 135, 2459, 4569}
941:92	$0, 0, 0, 0, 0, \frac{1}{25}e^{12}, \frac{1}{250}\sqrt{1510}e^{13}, \frac{1}{125}\sqrt{215}e^{14},$ $\frac{1}{250}\sqrt{1430}e^{15} + \frac{2}{125}\sqrt{10}e^{26}$	$(-\frac{1}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{2}{25}, \frac{2}{25}, 0, \frac{1}{25}, -\frac{3}{25}, \frac{1}{25})$ $+\frac{1}{250}\sqrt{1570}e^5 \otimes e_7 + \frac{1}{50}\sqrt{66}e^3 \otimes e_9 + \frac{2}{125}\sqrt{95}e^1 \otimes e_4$	{12356, 135, 2459, 4569}
941:92	$0, 0, 0, 0, 0, \frac{80}{3329}\sqrt{231}e^{12}, \frac{10}{3329}\sqrt{34881}e^{13}, \frac{10}{3329}\sqrt{10065}e^{14},$ $\frac{10}{3329}\sqrt{9933}e^{15} + \frac{30}{3329}\sqrt{22}e^{26}$	$(-\frac{896}{3329}, \frac{761}{3329}, \frac{768}{3329}, \frac{14}{3329}, \frac{1522}{3329}, -\frac{135}{3329}, -\frac{128}{3329}, -\frac{882}{3329}, \frac{626}{3329})$ $+\frac{30}{3329}\sqrt{5522}e^3 \otimes e_8 + \frac{40}{3329}\sqrt{3102}e^5 \otimes e_7$	{123456, 1345, 24589, 45689}
941:92	$0, 0, 0, 0, 0, \frac{4}{3101}\sqrt{58110}e^{12}, \frac{4}{3101}\sqrt{118455}e^{13}, \frac{2}{3101}\sqrt{92082}e^{14},$ $\frac{2}{3101}\sqrt{359835}e^{15} + \frac{6}{3101}\sqrt{46786}e^{26}$	$(-\frac{668}{3101}, \frac{559}{3101}, \frac{333}{3101}, \frac{107}{3101}, \frac{1118}{3101}, -\frac{109}{3101}, -\frac{335}{3101}, -\frac{561}{3101}, \frac{450}{3101})$ $+\frac{36}{3101}\sqrt{1490}e^3 \otimes e_8 + \frac{4}{3101}\sqrt{190869}e^2 \otimes e_7$	{123459, 156789, 24568, 357}
941:92	$0, 0, 0, 0, 0, \frac{17}{64}e^{12}, \frac{1}{64}\sqrt{714}e^{13}, \frac{17}{64}e^{14},$ $\frac{3}{32}\sqrt{17}e^{15} + \frac{1}{32}\sqrt{51}e^{26}$	$(-\frac{17}{64}, \frac{15}{128}, \frac{15}{64}, \frac{27}{128}, \frac{15}{64}, -\frac{19}{128}, -\frac{1}{32}, -\frac{7}{128}, -\frac{1}{32})$ $-\frac{1}{32}\sqrt{238}e^5 \otimes e_7 + \frac{1}{64}\sqrt{1054}e^3 \otimes e_9$	{1234568, 12356, 13458, 135, 2459, 2589, 4569, 5689}
941:92	$0, 0, 0, 0, 0, \frac{17}{64}e^{12}, \frac{1}{64}\sqrt{714}e^{13}, \frac{17}{64}e^{14},$ $\frac{3}{32}\sqrt{17}e^{15} + \frac{1}{32}\sqrt{51}e^{26}$	$(-\frac{17}{64}, \frac{15}{128}, \frac{15}{64}, \frac{27}{128}, \frac{15}{64}, -\frac{19}{128}, -\frac{1}{32}, -\frac{7}{128}, -\frac{1}{32})$ $+\frac{1}{32}\sqrt{238}e^5 \otimes e_7 + \frac{1}{64}\sqrt{1054}e^3 \otimes e_9$	{1234568, 12356, 13458, 135, 2459, 2589, 4569, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:92	$0, 0, 0, 0, 0, \frac{16}{2969}\sqrt{2355}e^{12}, \frac{10}{2969}\sqrt{25905}e^{13}, \frac{2}{2969}\sqrt{107545}e^{14},$ $\frac{10}{2969}\sqrt{5181}e^{15} + \frac{6}{2969}\sqrt{4710}e^{26}$	$(\frac{384}{2969}, \frac{81}{2969}, \frac{768}{2969}, -\frac{1186}{2969}, \frac{162}{2969}, \frac{465}{2969}, \frac{1152}{2969}, -\frac{802}{2969}, \frac{546}{2969})$ $+ \frac{2}{2969}\sqrt{993810}e^3 \otimes e_8 + \frac{8}{2969}\sqrt{67510}e^1 \otimes e_4$	{12789, 16789, 2468, 48}
941:92	$0, 0, 0, 0, 0, \frac{8}{315}\sqrt{326}e^{12}, \frac{2}{105}\sqrt{1793}e^{13}, \frac{2}{105}\sqrt{1793}e^{14},$ $\frac{2}{45}\sqrt{163}e^{15} + \frac{2}{315}\sqrt{5542}e^{26}$	$(-\frac{64}{315}, \frac{17}{105}, \frac{24}{35}, -\frac{46}{315}, \frac{34}{105}, -\frac{13}{315}, \frac{152}{315}, -\frac{22}{63}, \frac{38}{315})$ $+ \frac{2}{315}\sqrt{42706}e^3 \otimes e_8$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:92	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{5}e^{12}, \frac{1}{17}\sqrt{14}e^{13}, \frac{1}{17}\sqrt{34}e^{14},$ $\frac{4}{17}\sqrt{2}e^{15} + \frac{2}{17}e^{26}$	$(\frac{1}{17}, \frac{2}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, \frac{3}{17}, -\frac{3}{17}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{30}e^2 \otimes e_7 + \frac{1}{17}\sqrt{58}e^5 \otimes e_8 + \frac{2}{17}\sqrt{17}e^1 \otimes e_3$	{1289, 23468}
941:92	$0, 0, 0, 0, 0, \frac{1}{827}\sqrt{90574}e^{12}, \frac{2}{827}\sqrt{10919}e^{13}, \frac{1}{827}\sqrt{90574}e^{14},$ $\frac{3}{827}\sqrt{2506}e^{15} + \frac{1}{827}\sqrt{69094}e^{26}$	$(\frac{67}{827}, \frac{70}{827}, -\frac{112}{827}, -\frac{176}{827}, \frac{140}{827}, \frac{137}{827}, -\frac{45}{827}, -\frac{109}{827}, \frac{207}{827})$ $+ \frac{1}{827}\sqrt{111338}e^1 \otimes e_3 + \frac{1}{827}\sqrt{157162}e^2 \otimes e_8$	{12459, 15689, 2356, 3458}
941:92	$0, 0, 0, 0, 0, \frac{2}{87}\sqrt{78}e^{12}, \frac{10}{87}\sqrt{13}e^{13}, \frac{10}{87}\sqrt{13}e^{14},$ $\frac{2}{87}\sqrt{247}e^{15} + \frac{2}{29}\sqrt{13}e^{26}$	$(\frac{4}{29}, -\frac{7}{87}, \frac{7}{29}, -\frac{17}{87}, -\frac{14}{87}, \frac{5}{87}, \frac{11}{29}, -\frac{5}{87}, -\frac{2}{87})$ $+ \frac{2}{87}\sqrt{494}e^3 \otimes e_8 + \frac{2}{87}\sqrt{533}e^1 \otimes e_5$	{23567, 24568, 357, 458}
941:92	$0, 0, 0, 0, 0, \frac{4}{81}\sqrt{185}e^{12}, \frac{4}{81}\sqrt{185}e^{13}, \frac{4}{81}\sqrt{185}e^{14},$ $\frac{2}{81}\sqrt{703}e^{15} + \frac{2}{81}\sqrt{407}e^{26}$	$(\frac{40}{81}, -\frac{17}{81}, -\frac{2}{27}, -\frac{2}{27}, -\frac{34}{81}, \frac{23}{81}, \frac{34}{81}, \frac{34}{81}, \frac{2}{27})$ $+ \frac{2}{81}\sqrt{2479}e^1 \otimes e_5$	{2345678, 23567, 256, 34578, 357, 5}
941:92	$0, 0, 0, 0, 0, \frac{8}{685}\sqrt{705}e^{12}, \frac{6}{685}\sqrt{987}e^{13}, \frac{2}{685}\sqrt{32007}e^{14},$ $\frac{6}{685}\sqrt{329}e^{15} + \frac{6}{685}\sqrt{1974}e^{26}$	$(-\frac{32}{137}, \frac{5}{137}, \frac{294}{685}, \frac{172}{685}, \frac{10}{137}, -\frac{27}{137}, \frac{134}{685}, \frac{12}{685}, -\frac{22}{137})$ $+ \frac{2}{685}\sqrt{40326}e^3 \otimes e_8 + \frac{4}{685}\sqrt{11562}e^4 \otimes e_9$	{123456, 1345, 23579, 35679}
941:92	$0, 0, 0, 0, 0, \frac{20}{161}\sqrt{2}e^{12}, \frac{2}{161}\sqrt{755}e^{13}, \frac{2}{161}\sqrt{1105}e^{14},$ $\frac{2}{161}\sqrt{1265}e^{15} + \frac{16}{161}\sqrt{5}e^{26}$	$(\frac{16}{161}, \frac{17}{161}, -\frac{34}{161}, -\frac{32}{161}, \frac{34}{161}, \frac{33}{161}, -\frac{18}{161}, -\frac{16}{161}, \frac{50}{161})$ $+ \frac{2}{161}\sqrt{1810}e^5 \otimes e_8 + \frac{1}{161}\sqrt{1910}e^1 \otimes e_3$	{1245, 1456, 23569, 359}
941:92	$0, 0, 0, 0, 0, \frac{4}{3041}\sqrt{67398}e^{12}, \frac{2}{3041}\sqrt{257403}e^{13}, \frac{2}{3041}\sqrt{181401}e^{14},$ $\frac{2}{3041}\sqrt{594393}e^{15} + \frac{6}{3041}\sqrt{25334}e^{26}$	$(-\frac{752}{3041}, \frac{371}{3041}, \frac{1424}{3041}, \frac{60}{3041}, \frac{742}{3041}, -\frac{381}{3041}, \frac{672}{3041}, -\frac{692}{3041}, -\frac{10}{3041})$ $+ \frac{2}{3041}\sqrt{901986}e^5 \otimes e_8 + \frac{42}{3041}\sqrt{2390}e^3 \otimes e_9$	{123456, 1345, 259, 569}
941:92	$0, 0, 0, 0, 0, \frac{4}{761}\sqrt{2145}e^{12}, \frac{8}{761}\sqrt{2310}e^{13}, \frac{4}{761}\sqrt{2145}e^{14},$ $\frac{30}{761}\sqrt{11}e^{15} + \frac{2}{761}\sqrt{24585}e^{26}$	$(\frac{104}{761}, -\frac{113}{761}, \frac{208}{761}, \frac{36}{761}, -\frac{226}{761}, -\frac{9}{761}, \frac{312}{761}, \frac{140}{761}, -\frac{122}{761})$ $+ \frac{2}{761}\sqrt{54285}e^1 \otimes e_5 + \frac{4}{761}\sqrt{14190}e^3 \otimes e_9$	{2345678, 23567, 34578, 357}
941:92	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{23433}e^{12}, \frac{1}{152}\sqrt{14766}e^{13}, \frac{1}{304}\sqrt{23433}e^{14},$ $\frac{1}{304}\sqrt{64842}e^{15} + \frac{3}{152}\sqrt{321}e^{26}$	$(-\frac{73}{304}, \frac{203}{608}, -\frac{45}{304}, \frac{167}{608}, \frac{203}{32}, -\frac{59}{152}, \frac{21}{608}, \frac{65}{152})$ $+ \frac{1}{304}\sqrt{164994}e^5 \otimes e_7$	{1246789, 12679, 14789, 179, 2347, 2378, 3467, 3678}
941:92	$0, 0, 0, 0, 0, \frac{49}{185}e^{12}, \frac{28}{555}\sqrt{33}e^{13}, \frac{14}{555}\sqrt{159}e^{14},$ $\frac{14}{555}\sqrt{105}e^{15} + \frac{42}{185}e^{26}$	$(-\frac{49}{185}, \frac{21}{185}, \frac{42}{185}, \frac{42}{185}, \frac{42}{185}, -\frac{28}{185}, -\frac{7}{185}, -\frac{7}{185}, -\frac{7}{185})$ $+ \frac{7}{555}\sqrt{1023}e^3 \otimes e_8 + \frac{7}{555}\sqrt{1131}e^4 \otimes e_9 + \frac{7}{555}\sqrt{915}e^5 \otimes e_7$	{123456, 1345}
941:93	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{119}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{2765}e^{14},$ $\frac{4}{139}\sqrt{105}e^{16} + \frac{1}{139}\sqrt{4795}e^{25}$	$(\frac{15}{278}, -\frac{14}{139}, \frac{36}{139}, -\frac{55}{278}, \frac{15}{139}, -\frac{13}{278}, \frac{87}{278}, -\frac{20}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^3 \otimes e_9 + \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{126789, 138, 2489, 34678}
941:93	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{62646}e^{12}, \frac{4}{313}\sqrt{2561}e^{13}, \frac{1}{313}\sqrt{13002}e^{14},$ $\frac{1}{313}\sqrt{62646}e^{16} + \frac{1}{313}\sqrt{36642}e^{25}$	$(\frac{66}{313}, -\frac{27}{313}, -\frac{131}{313}, \frac{6}{313}, \frac{132}{313}, \frac{39}{313}, -\frac{65}{313}, \frac{72}{313}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{26989}e^1 \otimes e_3$	{12459, 12589, 1456, 1568, 2345689, 23569, 3458, 35}
941:93	$0, 0, 0, 0, 0, \frac{72}{329}e^{12}, \frac{9}{329}\sqrt{109}e^{13}, \frac{9}{329}\sqrt{173}e^{14},$ $\frac{9}{329}\sqrt{143}e^{16} + \frac{9}{329}\sqrt{267}e^{25}$	$(\frac{45}{658}, \frac{45}{329}, -\frac{117}{658}, -\frac{117}{658}, \frac{45}{329}, \frac{135}{658}, -\frac{36}{329}, -\frac{36}{329}, \frac{90}{329})$ $+ \frac{72}{329}e^1 \otimes e_3 + \frac{9}{329}\sqrt{237}e^2 \otimes e_7 + \frac{9}{329}\sqrt{301}e^5 \otimes e_8$	{178, 34678}
941:93	$0, 0, 0, 0, 0, \frac{5}{72}\sqrt{14}e^{12}, \frac{1}{72}\sqrt{427}e^{13}, \frac{1}{72}\sqrt{427}e^{14},$ $\frac{5}{72}\sqrt{14}e^{16} + \frac{1}{12}\sqrt{7}e^{25}$	$(-\frac{7}{72}, \frac{11}{72}, \frac{5}{48}, \frac{5}{48}, -\frac{7}{36}, \frac{1}{18}, \frac{1}{144}, \frac{1}{144}, -\frac{1}{24})$ $+ \frac{1}{36}\sqrt{119}e^3 \otimes e_8 + \frac{1}{36}\sqrt{119}e^4 \otimes e_7$	{123469, 126789, 134, 178, 2379, 367}
941:93	$0, 0, 0, 0, 0, \frac{5}{72}\sqrt{14}e^{12}, \frac{1}{72}\sqrt{427}e^{13}, \frac{1}{72}\sqrt{427}e^{14},$ $\frac{5}{72}\sqrt{14}e^{16} + \frac{1}{12}\sqrt{7}e^{25}$	$(-\frac{7}{72}, \frac{11}{72}, \frac{5}{48}, \frac{5}{48}, -\frac{7}{36}, \frac{1}{18}, \frac{1}{144}, \frac{1}{144}, -\frac{1}{24})$ $+ \frac{1}{36}\sqrt{119}e^3 \otimes e_8 - \frac{1}{36}\sqrt{119}e^4 \otimes e_7$	{123469, 126789, 134, 178, 2379, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:93	$0, 0, 0, 0, 0, \frac{9}{2165}\sqrt{1114}e^{12}, \frac{36}{433}\sqrt{5}e^{13}, \frac{36}{2165}\sqrt{2}e^{14},$ $\frac{18}{2165}\sqrt{131}e^{16} + \frac{9}{2165}\sqrt{1902}e^{25}$	$(\frac{99}{2165}, -\frac{261}{2165}, \frac{18}{2165}, \frac{18}{2165}, \frac{198}{2165}, -\frac{162}{2165}, \frac{117}{2165}, \frac{117}{2165}, -\frac{63}{2165})$ $+ \frac{36}{2165}\sqrt{127}e^5 \otimes e_7 + \frac{9}{2165}\sqrt{1770}e^3 \otimes e_9 + \frac{9}{2165}\sqrt{262}e^1 \otimes e_4$	{12679, 3467}
941:93	$0, 0, 0, 0, 0, \frac{2}{3049}\sqrt{58377}e^{12}, \frac{2}{3049}\sqrt{90890}e^{13}, \frac{4}{3049}\sqrt{915}e^{14},$ $\frac{4}{3049}\sqrt{7991}e^{16} + \frac{2}{3049}\sqrt{92110}e^{25}$	$(\frac{120}{3049}, -\frac{364}{3049}, -\frac{2}{3049}, \frac{129}{3049}, \frac{240}{3049}, -\frac{244}{3049}, \frac{118}{3049}, \frac{249}{3049}, -\frac{124}{3049})$ $+ \frac{2}{3049}\sqrt{79239}e^3 \otimes e_9 + \frac{2}{3049}\sqrt{95221}e^5 \otimes e_7$	{124679, 126789, 34678, 367}
941:93	$0, 0, 0, 0, 0, \frac{4}{139}\sqrt{105}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{2765}e^{14},$ $\frac{5}{139}\sqrt{119}e^{16} + \frac{1}{139}\sqrt{4795}e^{25}$	$(\frac{15}{278}, \frac{23}{139}, -\frac{39}{278}, -\frac{55}{278}, \frac{15}{139}, \frac{61}{278}, -\frac{12}{139}, -\frac{20}{139}, \frac{38}{139})$ $+ \frac{1}{139}\sqrt{3885}e^2 \otimes e_7 + \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{123689, 178, 2489, 34678}
941:93	$0, 0, 0, 0, 0, \frac{6}{305}\sqrt{154}e^{12}, \frac{2}{305}\sqrt{2442}e^{13}, \frac{4}{61}\sqrt{66}e^{14},$ $\frac{6}{305}\sqrt{154}e^{16} + \frac{12}{305}\sqrt{77}e^{25}$	$(\frac{63}{305}, -\frac{32}{305}, -\frac{69}{305}, -\frac{69}{305}, \frac{126}{305}, \frac{31}{305}, -\frac{6}{305}, -\frac{6}{305}, \frac{94}{305})$ $+ \frac{2}{305}\sqrt{9042}e^1 \otimes e_3 + \frac{2}{305}\sqrt{9042}e^5 \otimes e_8$	{1289, 168, 234689, 348}
941:93	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{133}e^{12}, \frac{8}{139}\sqrt{35}e^{13}, \frac{21}{139}\sqrt{5}e^{14},$ $\frac{1}{139}\sqrt{2030}e^{16} + \frac{1}{139}\sqrt{210}e^{25}$	$(\frac{15}{278}, \frac{23}{139}, -\frac{55}{278}, -\frac{39}{278}, \frac{15}{139}, \frac{61}{278}, -\frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $+ \frac{1}{139}\sqrt{3885}e^2 \otimes e_8 + \frac{1}{139}\sqrt{5005}e^1 \otimes e_3$	{12459, 1568, 23569, 3458}
941:93	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{1406}e^{12}, \frac{1}{121}\sqrt{3145}e^{13}, \frac{3}{121}\sqrt{185}e^{14},$ $\frac{1}{121}\sqrt{2553}e^{16} + \frac{1}{121}\sqrt{2590}e^{25}$	$(-\frac{45}{242}, \frac{29}{121}, \frac{58}{121}, \frac{51}{242}, -\frac{45}{121}, \frac{13}{121}, \frac{71}{242}, \frac{3}{121}, -\frac{16}{121})$ $+ \frac{1}{121}\sqrt{6179}e^2 \otimes e_5 + \frac{2}{121}\sqrt{2405}e^3 \otimes e_9$	{124789, 1279, 2469, 2689}
941:93	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{42}e^{13}, \frac{1}{14}\sqrt{14}e^{14},$ $\frac{1}{14}\sqrt{42}e^{16} + \frac{1}{14}\sqrt{21}e^{25}$	$(\frac{3}{28}, 0, \frac{3}{14}, -\frac{11}{28}, \frac{3}{14}, \frac{3}{28}, \frac{9}{28}, -\frac{2}{7}, \frac{3}{14})$ $+ \frac{2}{7}\sqrt{7}e^1 \otimes e_4 + \frac{3}{14}\sqrt{7}e^3 \otimes e_8$	{12359, 1356, 2345679, 3457}
941:93	$0, 0, 0, 0, 0, \frac{1}{325}\sqrt{222}e^{12}, \frac{4}{325}\sqrt{15}e^{13}, \frac{1}{325}\sqrt{182}e^{14},$ $\frac{1}{325}\sqrt{174}e^{16} + \frac{1}{325}\sqrt{278}e^{25}$	$(\frac{4}{325}, -\frac{11}{325}, \frac{3}{325}, -\frac{2}{325}, \frac{8}{325}, -\frac{7}{325}, \frac{7}{325}, \frac{2}{325}, -\frac{3}{325})$ $+ \frac{12}{325}e^4 \otimes e_9 + \frac{2}{325}\sqrt{53}e^3 \otimes e_8 + \frac{2}{325}\sqrt{65}e^5 \otimes e_7$	{126789, 2379}
941:93	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{6}e^{12}, \frac{3}{5}\sqrt{2}e^{13}, \frac{3}{5}\sqrt{2}e^{14},$ $\frac{3}{10}\sqrt{6}e^{16} + \frac{3}{10}\sqrt{5}e^{25}$	$(-\frac{1}{20}, \frac{1}{5}, \frac{3}{5}, -\frac{1}{4}, -\frac{1}{10}, \frac{3}{10}, \frac{11}{20}, -\frac{3}{10}, \frac{1}{10})$ $+ \frac{3}{10}\sqrt{17}e^3 \otimes e_8$	{123469, 126789, 134, 178, 2379, 2489, 367, 468}
941:93	$0, 0, 0, 0, 0, \frac{3}{119}\sqrt{110}e^{12}, \frac{2}{119}\sqrt{330}e^{13}, \frac{1}{119}\sqrt{638}e^{14},$ $\frac{3}{119}\sqrt{110}e^{16} + \frac{1}{119}\sqrt{1166}e^{25}$	$(\frac{8}{119}, -\frac{1}{119}, -\frac{3}{119}, -\frac{22}{119}, \frac{16}{119}, \frac{1}{119}, \frac{5}{17}, \frac{5}{119}, -\frac{2}{17}, \frac{15}{119})$ $+ \frac{10}{119}\sqrt{11}e^3 \otimes e_8 + \frac{2}{119}\sqrt{341}e^5 \otimes e_7$	{126789, 178, 2379, 367}
941:93	$0, 0, 0, 0, 0, \frac{1}{1551}\sqrt{2298}e^{12}, \frac{1}{1551}\sqrt{410}e^{13}, \frac{2}{1551}\sqrt{195}e^{14},$ $\frac{1}{1551}\sqrt{429}e^{16} + \frac{1}{1551}\sqrt{1110}e^{25}$	$(\frac{5}{517}, -\frac{7}{517}, \frac{4}{517}, -\frac{13}{517}, \frac{10}{517}, -\frac{2}{517}, \frac{9}{517}, -\frac{8}{517}, \frac{3}{517})$ $+ \frac{1}{1551}\sqrt{4074}e^5 \otimes e_7 + \frac{4}{1551}\sqrt{201}e^3 \otimes e_9 + \frac{1}{1551}\sqrt{30}e^2 \otimes e_8$	{124679, 34678}
941:93	$0, 0, 0, 0, 0, \frac{16}{313}\sqrt{13}e^{12}, \frac{80}{313}\sqrt{2}e^{13}, \frac{80}{313}\sqrt{2}e^{14},$ $\frac{16}{313}\sqrt{13}e^{16} + \frac{16}{313}\sqrt{113}e^{25}$	$(-\frac{39}{313}, \frac{74}{313}, \frac{124}{313}, -\frac{15}{313}, -\frac{78}{313}, \frac{35}{313}, \frac{85}{313}, -\frac{54}{313}, -\frac{4}{313})$ $+ \frac{16}{313}\sqrt{139}e^2 \otimes e_8 + \frac{16}{313}\sqrt{139}e^3 \otimes e_9$	{124679, 138, 29, 34678}
941:93	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{45310}e^{12}, \frac{2}{313}\sqrt{16745}e^{13}, \frac{1}{313}\sqrt{13002}e^{14},$ $\frac{1}{313}\sqrt{45310}e^{16} + \frac{1}{313}\sqrt{71314}e^{25}$	$(\frac{66}{313}, -\frac{27}{313}, -\frac{131}{313}, \frac{6}{313}, \frac{132}{313}, \frac{39}{313}, -\frac{65}{313}, \frac{72}{313}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{26989}e^5 \otimes e_7$	{124679, 126789, 147, 178, 234789, 2379, 34678, 367}
941:93	$0, 0, 0, 0, 0, \frac{3}{295}\sqrt{174}e^{12}, \frac{1}{295}\sqrt{1290}e^{13}, \frac{2}{295}\sqrt{258}e^{14},$ $\frac{3}{295}\sqrt{174}e^{16} + \frac{6}{295}\sqrt{43}e^{25}$	$(-\frac{3}{295}, \frac{17}{295}, -\frac{6}{295}, -\frac{6}{295}, -\frac{6}{295}, \frac{14}{295}, -\frac{9}{295}, -\frac{9}{295}, \frac{11}{295})$ $+ \frac{2}{295}\sqrt{357}e^5 \otimes e_7 + \frac{3}{295}\sqrt{130}e^3 \otimes e_8 + \frac{4}{295}\sqrt{57}e^1 \otimes e_4$	{2379, 367}
941:93	$0, 0, 0, 0, 0, \frac{24}{1351}\sqrt{1007}e^{12}, \frac{8}{1351}\sqrt{1406}e^{13}, \frac{8}{1351}\sqrt{969}e^{14},$ $\frac{8}{1351}\sqrt{6042}e^{16} + \frac{152}{1351}\sqrt{3}e^{25}$	$(\frac{102}{1351}, \frac{204}{1351}, -\frac{506}{1351}, \frac{96}{1351}, \frac{204}{1351}, \frac{306}{1351}, -\frac{404}{1351}, \frac{198}{1351}, \frac{408}{1351})$ $+ \frac{24}{1351}\sqrt{1007}e^2 \otimes e_7 + \frac{8}{1351}\sqrt{13813}e^1 \otimes e_3$	{12459, 12589, 2345689, 23569}
941:93	$0, 0, 0, 0, 0, \frac{1}{995}\sqrt{179546}e^{12}, \frac{3}{995}\sqrt{68798}e^{13}, \frac{4}{995}\sqrt{5034}e^{14},$ $\frac{3}{995}\sqrt{31882}e^{16} + \frac{1}{995}\sqrt{592334}e^{25}$	$(-\frac{96}{995}, \frac{107}{199}, -\frac{208}{995}, \frac{209}{995}, -\frac{192}{995}, \frac{439}{995}, -\frac{304}{995}, \frac{113}{995}, \frac{343}{995})$ $+ \frac{2}{995}\sqrt{349863}e^2 \otimes e_7$	{123458, 1235, 1456789, 15679, 2456, 2568, 34579, 35789}
941:93	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{994}e^{12}, \frac{1}{59}\sqrt{1065}e^{13}, \frac{1}{59}\sqrt{1065}e^{14},$ $\frac{2}{59}\sqrt{1633}e^{16} + \frac{2}{59}\sqrt{355}e^{25}$	$(-\frac{15}{59}, \frac{41}{59}, \frac{17}{59}, \frac{17}{59}, -\frac{30}{59}, \frac{26}{59}, \frac{2}{59}, \frac{2}{59}, \frac{11}{59})$ $+ \frac{3}{59}\sqrt{781}e^2 \otimes e_5$	{1345678, 13567, 156, 345, 358, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:93	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{31882e^{12}}, \frac{3}{995}\sqrt{68798e^{13}}, \frac{4}{995}\sqrt{5034e^{14}}, \frac{1}{995}\sqrt{179546e^{16}} + \frac{1}{995}\sqrt{592334e^{25}}$	$(-\frac{96}{995}, -\frac{21}{995}, \frac{626}{995}, \frac{209}{995}, -\frac{192}{995}, -\frac{117}{995}, \frac{106}{199}, \frac{113}{995}, -\frac{213}{995}) + \frac{2}{995}\sqrt{349863e^3} \otimes e_9$	{1234568, 12356, 145789, 1579, 23457, 23578, 4569, 5689}
941:93	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{714e^{12}}, \frac{1}{65}\sqrt{462e^{13}}, \frac{2}{65}\sqrt{273e^{14}}, \frac{7}{65}\sqrt{6e^{16}} + \frac{2}{65}\sqrt{210e^{25}}$	$(-\frac{7}{65}, \frac{3}{65}, \frac{24}{65}, \frac{2}{13}, -\frac{14}{65}, -\frac{4}{65}, \frac{17}{65}, \frac{3}{65}, -\frac{11}{65}) + \frac{1}{65}\sqrt{1218e^3} \otimes e_8 + \frac{6}{65}\sqrt{35e^4} \otimes e_9$	{126789, 134, 2379, 468}
941:93	$0, 0, 0, 0, 0, \frac{3}{961}\sqrt{1630e^{12}}, \frac{3}{961}\sqrt{2810e^{13}}, \frac{6}{961}\sqrt{345e^{14}}, \frac{3}{961}\sqrt{1630e^{16}} + \frac{3}{961}\sqrt{4290e^{25}}$	$(-\frac{30}{961}, \frac{3}{31}, \frac{78}{961}, -\frac{75}{961}, \frac{60}{961}, \frac{63}{961}, \frac{48}{961}, -\frac{105}{961}, \frac{33}{961}) + \frac{12}{961}\sqrt{185e^2} \otimes e_7 + \frac{12}{961}\sqrt{185e^3} \otimes e_9 + \frac{18}{961}\sqrt{85e^5} \otimes e_8$	{2489, 34678}
941:93	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{7258e^{12}}, \frac{19}{181}\sqrt{11e^{13}}, \frac{1}{181}\sqrt{57e^{14}}, \frac{1}{181}\sqrt{5567e^{16}} + \frac{1}{181}\sqrt{3990e^{25}}$	$(-\frac{3}{362}, \frac{35}{181}, -\frac{79}{362}, \frac{12}{181}, -\frac{3}{181}, \frac{67}{362}, -\frac{41}{181}, \frac{21}{362}, \frac{32}{181}) + \frac{1}{181}\sqrt{5073e^2} \otimes e_5 + \frac{2}{181}\sqrt{1957e^1} \otimes e_3$	{14568, 156, 345, 358}
941:93	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{2030e^{12}}, \frac{21}{139}\sqrt{5e^{13}}, \frac{8}{139}\sqrt{35e^{14}}, \frac{5}{139}\sqrt{133e^{16}} + \frac{1}{139}\sqrt{210e^{25}}$	$(\frac{15}{278}, -\frac{14}{139}, \frac{36}{139}, -\frac{55}{278}, \frac{15}{139}, -\frac{13}{278}, \frac{87}{278}, -\frac{20}{139}, \frac{1}{139}) + \frac{1}{139}\sqrt{3885e^3} \otimes e_9 + \frac{1}{139}\sqrt{5005e^1} \otimes e_4$	{12579, 1356, 24569, 3457}
941:93	$0, 0, 0, 0, 0, \frac{42}{305}e^{12}, \frac{6}{305}\sqrt{413e^{13}}, \frac{21}{305}\sqrt{6e^{14}}, \frac{42}{305}e^{16} + \frac{3}{305}\sqrt{1554e^{25}}$	$(-\frac{42}{305}, \frac{69}{305}, \frac{48}{305}, \frac{48}{305}, -\frac{84}{305}, \frac{27}{305}, \frac{6}{305}, \frac{6}{305}, -\frac{3}{61}) + \frac{3}{305}\sqrt{1946e^2} \otimes e_7 + \frac{3}{305}\sqrt{1946e^3} \otimes e_9$	{249, 289, 3467, 3678}
941:93	$0, 0, 0, 0, 0, \frac{7}{65}\sqrt{6e^{12}}, \frac{2}{65}\sqrt{273e^{13}}, \frac{1}{65}\sqrt{462e^{14}}, \frac{1}{65}\sqrt{714e^{16}} + \frac{2}{65}\sqrt{210e^{25}}$	$(-\frac{7}{65}, \frac{23}{65}, \frac{9}{65}, -\frac{1}{13}, -\frac{14}{65}, \frac{16}{65}, \frac{2}{65}, -\frac{12}{65}, \frac{9}{65}) + \frac{1}{65}\sqrt{1218e^3} \otimes e_8 + \frac{6}{65}\sqrt{35e^2} \otimes e_7$	{123469, 178, 2489, 367}
941:94	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{1495e^{12}}, \frac{1}{343}\sqrt{3677e^{13}}, \frac{1}{686}\sqrt{79534e^{24}}, \frac{1}{343}\sqrt{9269e^{15}} + \frac{1}{686}\sqrt{299e^{26}}$	$(\frac{153}{686}, -\frac{73}{686}, \frac{325}{1372}, -\frac{127}{1372}, -\frac{73}{343}, \frac{40}{1372}, \frac{631}{1372}, -\frac{39}{196}, \frac{1}{98}) + \frac{1}{686}\sqrt{165945e^1} \otimes e_5 + \frac{1}{686}\sqrt{202722e^3} \otimes e_8$	{1234, 1278, 136, 14678}
941:94	$0, 0, 0, 0, 0, \frac{2}{931}\sqrt{66810e^{12}}, \frac{12}{931}\sqrt{786e^{13}}, \frac{20}{931}\sqrt{131e^{24}}, \frac{2}{931}\sqrt{47946e^{15}} + \frac{2}{931}\sqrt{76242e^{26}}$	$(-\frac{75}{931}, \frac{144}{931}, \frac{288}{931}, -\frac{20}{931}, \frac{288}{931}, \frac{69}{931}, \frac{213}{931}, \frac{236}{931}, \frac{213}{931}) + \frac{2}{931}\sqrt{140170e^2} \otimes e_4 + \frac{2}{931}\sqrt{76242e^3} \otimes e_8$	{12359, 134569, 23567, 3457}
941:94	$0, 0, 0, 0, 0, \frac{28}{2929}\sqrt{182e^{12}}, \frac{364}{2929}\sqrt{5e^{13}}, \frac{14}{2929}\sqrt{7085e^{24}}, \frac{448}{2929}\sqrt{13e^{15}} + \frac{14}{2929}\sqrt{793e^{26}}$	$(\frac{657}{2929}, -\frac{362}{2929}, -\frac{617}{2929}, \frac{1207}{2929}, -\frac{724}{2929}, \frac{295}{2929}, \frac{40}{2929}, \frac{845}{2929}, -\frac{67}{2929}) + \frac{14}{2929}\sqrt{15301e^1} \otimes e_3 + \frac{308}{2929}\sqrt{39e^4} \otimes e_9$	{1289, 169, 2346, 348}
941:94	$0, 0, 0, 0, 0, \frac{1}{293}\sqrt{16102e^{12}}, \frac{2}{293}\sqrt{1455e^{13}}, \frac{2}{293}\sqrt{3007e^{24}}, \frac{1}{293}\sqrt{6790e^{15}} + \frac{2}{293}\sqrt{6305e^{26}}$	$(-\frac{51}{293}, \frac{31}{293}, \frac{108}{293}, -\frac{66}{293}, \frac{62}{293}, -\frac{20}{293}, \frac{57}{293}, -\frac{35}{293}, \frac{11}{293}) + \frac{1}{293}\sqrt{21534e^3} \otimes e_9 + \frac{1}{293}\sqrt{30070e^2} \otimes e_4$	{12579, 145679, 23567, 3457}
941:94	$0, 0, 0, 0, 0, \frac{4}{353}\sqrt{3206e^{12}}, \frac{1}{353}\sqrt{6870e^{13}}, \frac{2}{353}\sqrt{22213e^{24}}, \frac{4}{353}\sqrt{91142e^{15}} + \frac{3}{353}\sqrt{5954e^{26}}$	$(-\frac{30}{353}, \frac{77}{353}, \frac{57}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{47}{353}, \frac{27}{353}, -\frac{75}{353}, \frac{124}{353}) + \frac{1}{353}\sqrt{142438e^5} \otimes e_8$	{1236789, 12689, 134789, 1489, 238, 278, 3468, 4678}
941:94	$0, 0, 0, 0, 0, \frac{1}{1169}\sqrt{59570e^{12}}, \frac{2}{1169}\sqrt{109779e^{13}}, \frac{2}{1169}\sqrt{189773e^{24}}, \frac{12}{1169}\sqrt{4255e^{15}} + \frac{2}{1169}\sqrt{86802e^{26}}$	$(\frac{516}{1169}, -\frac{83}{1169}, -\frac{64}{1169}, -\frac{36}{167}, -\frac{166}{1169}, \frac{433}{1169}, \frac{452}{1169}, -\frac{335}{1169}, \frac{50}{167}) + \frac{5}{1169}\sqrt{66378e^1} \otimes e_8$	{12345, 12457, 1356, 1567, 2356789, 25689, 345789, 4589}
941:94	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{14065e^{12}}, \frac{18}{281}\sqrt{145e^{13}}, \frac{8}{281}\sqrt{290e^{24}}, \frac{2}{281}\sqrt{8555e^{15}} + \frac{2}{281}\sqrt{6670e^{26}}$	$(\frac{162}{281}, -\frac{64}{281}, -\frac{34}{281}, \frac{79}{281}, -\frac{128}{281}, \frac{98}{281}, \frac{128}{281}, \frac{15}{281}, \frac{34}{281}) + \frac{6}{281}\sqrt{3770e^1} \otimes e_5$	{2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:94	$0, 0, 0, 0, 0, \frac{3}{139}\sqrt{614e^{12}}, \frac{1}{695}\sqrt{31314e^{13}}, \frac{1}{695}\sqrt{4298e^{24}}, \frac{4}{695}\sqrt{921e^{15}} + \frac{2}{139}\sqrt{921e^{26}}$	$(\frac{102}{695}, \frac{51}{695}, \frac{27}{695}, -\frac{256}{695}, \frac{102}{695}, \frac{153}{695}, \frac{129}{695}, -\frac{41}{139}, \frac{204}{695}) + \frac{1}{695}\sqrt{209374e^2} \otimes e_4 + \frac{2}{695}\sqrt{42366e^1} \otimes e_8$	{12359, 12579, 134569, 145679}
941:94	$0, 0, 0, 0, 0, \frac{1}{502}\sqrt{5945e^{12}}, \frac{3}{1004}\sqrt{3854e^{13}}, \frac{1}{1004}\sqrt{39442e^{24}}, \frac{5}{1004}\sqrt{82e^{15}} + \frac{1}{1004}\sqrt{12218e^{26}}$	$(-\frac{99}{1004}, \frac{17}{1004}, \frac{217}{2008}, \frac{101}{2008}, \frac{17}{502}, -\frac{41}{502}, \frac{19}{2008}, \frac{135}{2008}, -\frac{65}{1004}) + \frac{3}{1004}\sqrt{4305e^3} \otimes e_8 + \frac{3}{1004}\sqrt{4305e^4} \otimes e_7$	{123469, 126789, 367, 468}
941:94	$0, 0, 0, 0, 0, \frac{72}{3371}\sqrt{77e^{12}}, \frac{36}{3371}\sqrt{345e^{13}}, \frac{36}{3371}\sqrt{1306e^{24}}, \frac{36}{3371}\sqrt{1191e^{15}} + \frac{36}{3371}\sqrt{239e^{26}}$	$(\frac{690}{3371}, -\frac{432}{3371}, -\frac{18}{3371}, \frac{474}{3371}, -\frac{864}{3371}, \frac{258}{3371}, \frac{672}{3371}, \frac{42}{3371}, -\frac{174}{3371}) + \frac{36}{3371}\sqrt{1453e^4} \otimes e_9 + \frac{36}{3371}\sqrt{1591e^1} \otimes e_8$	{139, 179, 34678, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:94	$0, 0, 0, 0, 0, \frac{5}{87}\sqrt{6}e^{12}, \frac{2}{87}\sqrt{6}e^{13}, \frac{2}{29}\sqrt{7}e^{24},$ $\frac{1}{87}\sqrt{258}e^{15} + \frac{2}{87}\sqrt{21}e^{26}$	$(-\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, 0, \frac{2}{29}, -\frac{2}{29}, 0, \frac{1}{29}, -\frac{1}{29})$ $+\frac{1}{87}\sqrt{222}e^4 \otimes e_9 + \frac{1}{87}\sqrt{6}e^2 \otimes e_7 + \frac{2}{87}\sqrt{66}e^5 \otimes e_8$	{12689, 4678}
941:94	$0, 0, 0, 0, 0, \frac{3}{6365}\sqrt{2686}e^{12}, \frac{6}{6365}\sqrt{233}e^{13}, \frac{3}{6365}\sqrt{5234}e^{24},$ $\frac{18}{6365}\sqrt{170}e^{15} + \frac{6}{6365}\sqrt{503}e^{26}$	$(-\frac{69}{6365}, \frac{51}{6365}, -\frac{78}{6365}, \frac{42}{6365}, \frac{102}{6365}, -\frac{18}{6365}, -\frac{147}{6365}, \frac{93}{6365}, \frac{33}{6365})$ $+\frac{18}{6365}\sqrt{130}e^4 \otimes e_9 + \frac{3}{6365}\sqrt{1726}e^1 \otimes e_3 + \frac{3}{6365}\sqrt{5686}e^5 \otimes e_8$	{12689, 3468}
941:94	$0, 0, 0, 0, 0, \frac{8}{1135}\sqrt{87}e^{12}, \frac{4}{1135}\sqrt{10614}e^{13}, \frac{8}{1135}\sqrt{5133}e^{24},$ $\frac{8}{1135}\sqrt{1653}e^{15} + \frac{4}{1135}\sqrt{3886}e^{26}$	$(-\frac{171}{1135}, \frac{242}{1135}, -\frac{51}{1135}, -\frac{222}{1135}, \frac{484}{1135}, \frac{71}{1135}, -\frac{222}{1135}, \frac{4}{1135}, \frac{313}{1135})$ $+\frac{4}{1135}\sqrt{31146}e^2 \otimes e_7 + \frac{8}{1135}\sqrt{6757}e^5 \otimes e_8$	{12389, 146789, 268, 3478}
941:94	$0, 0, 0, 0, 0, \frac{12}{1145}\sqrt{2913}e^{12}, \frac{2}{1145}\sqrt{2913}e^{13}, \frac{2}{1145}\sqrt{203910}e^{24},$ $\frac{2}{1145}\sqrt{204881}e^{15} + \frac{1}{1145}\sqrt{196142}e^{26}$	$(-\frac{12}{1145}, -\frac{117}{1145}, \frac{194}{1145}, \frac{145}{229}, -\frac{234}{1145}, -\frac{129}{1145}, \frac{182}{1145}, \frac{608}{1145}, -\frac{246}{1145})$ $+\frac{1}{1145}\sqrt{1858494}e^4 \otimes e_9$	{1234567, 12456, 134578, 1458, 23589, 25789, 3569, 5679}
941:94	$0, 0, 0, 0, 0, \frac{2}{1027}\sqrt{6555}e^{12}, \frac{4}{3081}\sqrt{8871}e^{13}, \frac{2}{3081}\sqrt{274873}e^{24},$ $\frac{4}{3081}\sqrt{85215}e^{15} + \frac{16}{3081}\sqrt{437}e^{26}$	$(\frac{359}{3081}, -\frac{74}{1027}, \frac{263}{1027}, -\frac{293}{3081}, -\frac{148}{1027}, \frac{137}{3081}, \frac{1148}{3081}, -\frac{515}{3081}, -\frac{85}{3081})$ $+\frac{46}{3081}\sqrt{1045}e^3 \otimes e_9 + \frac{4}{3081}\sqrt{161690}e^1 \otimes e_8$	{123456, 135, 2589, 45689}
941:94	$0, 0, 0, 0, 0, \frac{11}{223}\sqrt{170}e^{12}, \frac{6}{223}\sqrt{935}e^{13}, \frac{1}{223}\sqrt{37774}e^{24},$ $\frac{4}{223}\sqrt{187}e^{15} + \frac{5}{223}\sqrt{374}e^{26}$	$(-\frac{9}{223}, \frac{13}{223}, -\frac{56}{223}, \frac{122}{223}, \frac{26}{223}, \frac{4}{223}, -\frac{65}{223}, \frac{135}{223}, \frac{17}{223})$ $+\frac{3}{223}\sqrt{7854}e^4 \otimes e_7$	{123469, 126789, 13489, 179, 2378, 24, 367, 468}
941:94	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{3335}e^{12}, \frac{1}{181}\sqrt{1653}e^{13}, \frac{1}{181}\sqrt{5539}e^{24},$ $\frac{11}{181}\sqrt{29}e^{15} + \frac{4}{181}\sqrt{174}e^{26}$	$(-\frac{39}{362}, \frac{22}{181}, -\frac{33}{362}, -\frac{7}{181}, \frac{44}{181}, \frac{5}{362}, -\frac{36}{181}, \frac{15}{181}, \frac{49}{362})$ $+\frac{1}{181}\sqrt{5365}e^5 \otimes e_8 + \frac{3}{181}\sqrt{493}e^4 \otimes e_7$	{126789, 13489, 2378, 468}
941:94	$0, 0, 0, 0, 0, \frac{6}{65}\sqrt{5}e^{12}, \frac{1}{65}\sqrt{130}e^{13}, \frac{2}{65}\sqrt{65}e^{24},$ $\frac{1}{65}\sqrt{190}e^{15} + \frac{3}{65}\sqrt{10}e^{26}$	$(-\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, 0, \frac{2}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+\frac{1}{13}\sqrt{10}e^5 \otimes e_8 + \frac{2}{65}\sqrt{35}e^3 \otimes e_9 + \frac{2}{65}\sqrt{55}e^4 \otimes e_7$	{126789, 2378}
941:94	$0, 0, 0, 0, 0, \frac{13}{685}\sqrt{1006}e^{12}, \frac{117}{685}\sqrt{10}e^{13}, \frac{234}{685}\sqrt{3}e^{24},$ $\frac{234}{685}\sqrt{2}e^{15} + \frac{52}{685}\sqrt{46}e^{26}$	$(-\frac{169}{685}, \frac{91}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{13}{685}, \frac{13}{685}, \frac{13}{685})$ $+\frac{13}{685}\sqrt{898}e^5 \otimes e_7 + \frac{26}{685}\sqrt{265}e^3 \otimes e_8 + \frac{39}{685}\sqrt{78}e^2 \otimes e_4$	{2347, 367}
941:94	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{1}{15}\sqrt{55}e^{13}, \frac{1}{15}\sqrt{35}e^{24},$ $\frac{1}{15}\sqrt{15}e^{15} + \frac{1}{15}\sqrt{10}e^{26}$	$(-\frac{1}{6}, 0, \frac{1}{6}, \frac{1}{3}, 0, -\frac{1}{6}, 0, \frac{1}{3}, -\frac{1}{6})$ $+\frac{1}{15}\sqrt{65}e^3 \otimes e_9 + \frac{1}{15}\sqrt{70}e^4 \otimes e_7$	{123456, 13458, 2459, 45689}
941:94	$0, 0, 0, 0, 0, \frac{4}{605}\sqrt{3293}e^{12}, \frac{2}{605}\sqrt{10591}e^{13}, \frac{2}{605}\sqrt{22873}e^{24},$ $\frac{2}{121}\sqrt{445}e^{15} + \frac{6}{605}\sqrt{178}e^{26}$	$(-\frac{39}{605}, -\frac{34}{605}, \frac{43}{121}, \frac{71}{605}, -\frac{68}{605}, -\frac{73}{605}, \frac{16}{55}, \frac{37}{605}, -\frac{107}{605})$ $+\frac{2}{605}\sqrt{24119}e^4 \otimes e_9 + \frac{2}{605}\sqrt{24653}e^3 \otimes e_8$	{126789, 139, 2347, 468}
941:94	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{19}e^{12}, \frac{3}{55}\sqrt{23}e^{13}, \frac{3}{55}\sqrt{71}e^{24},$ $\frac{3}{55}\sqrt{105}e^{15} + \frac{3}{55}\sqrt{53}e^{26}$	$(\frac{3}{20}, \frac{9}{110}, -\frac{39}{220}, -\frac{27}{110}, \frac{9}{55}, \frac{51}{220}, -\frac{3}{110}, -\frac{9}{55}, \frac{69}{220})$ $+\frac{3}{55}\sqrt{79}e^1 \otimes e_3 + \frac{6}{55}\sqrt{31}e^5 \otimes e_8$	{12689, 1489, 238, 3468}
941:94	$0, 0, 0, 0, 0, \frac{48}{4055}\sqrt{35}e^{12}, \frac{12}{4055}\sqrt{645}e^{13}, \frac{12}{4055}\sqrt{1318}e^{24},$ $\frac{36}{4055}\sqrt{163}e^{15} + \frac{12}{4055}\sqrt{431}e^{26}$	$(\frac{198}{4055}, -\frac{48}{4055}, -\frac{366}{4055}, \frac{174}{4055}, -\frac{96}{4055}, \frac{30}{811}, -\frac{168}{4055}, \frac{126}{4055}, \frac{102}{4055})$ $+\frac{12}{4055}\sqrt{1213}e^4 \otimes e_9 + \frac{12}{4055}\sqrt{1471}e^1 \otimes e_8 + \frac{24}{4055}\sqrt{273}e^5 \otimes e_7$	{179, 34678}
941:94	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{1495}e^{12}, \frac{1}{343}\sqrt{36777}e^{13}, \frac{1}{686}\sqrt{79534}e^{24},$ $\frac{1}{343}\sqrt{9269}e^{15} + \frac{1}{686}\sqrt{299}e^{26}$	$(\frac{153}{686}, -\frac{73}{686}, -\frac{353}{1372}, \frac{551}{1372}, -\frac{73}{343}, \frac{40}{343}, -\frac{47}{1372}, \frac{405}{1372}, \frac{1}{98})$ $+\frac{1}{686}\sqrt{165945}e^1 \otimes e_5 + \frac{1}{686}\sqrt{202722}e^4 \otimes e_7$	{1234, 1278, 13468, 167}
941:94	$0, 0, 0, 0, 0, \frac{18}{145}\sqrt{15}e^{12}, \frac{12}{145}\sqrt{5}e^{13}, \frac{6}{145}\sqrt{65}e^{24},$ $\frac{3}{145}\sqrt{10}e^{15} + \frac{2}{29}\sqrt{14}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $-\frac{18}{145}\sqrt{5}e^5 \otimes e_7 + \frac{21}{145}\sqrt{10}e^1 \otimes e_3 + \frac{3}{145}\sqrt{670}e^2 \otimes e_4$	{1259, 14569, 2356, 345}
941:94	$0, 0, 0, 0, 0, \frac{18}{145}\sqrt{15}e^{12}, \frac{12}{145}\sqrt{5}e^{13}, \frac{6}{145}\sqrt{65}e^{24},$ $\frac{3}{145}\sqrt{10}e^{15} + \frac{2}{29}\sqrt{14}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $+\frac{18}{145}\sqrt{5}e^5 \otimes e_7 + \frac{21}{145}\sqrt{10}e^1 \otimes e_3 + \frac{3}{145}\sqrt{670}e^2 \otimes e_4$	{1259, 14569, 2356, 345}
941:94	$0, 0, 0, 0, 0, \frac{7}{1235}\sqrt{1358}e^{12}, \frac{28}{1235}\sqrt{203}e^{13}, \frac{42}{1235}\sqrt{105}e^{24},$ $\frac{7}{1235}\sqrt{266}e^{15} + \frac{28}{1235}\sqrt{287}e^{26}$	$(-\frac{9}{65}, \frac{79}{1235}, -\frac{93}{1235}, \frac{66}{247}, \frac{158}{1235}, -\frac{92}{1235}, -\frac{264}{1235}, \frac{409}{1235}, -\frac{1}{95})$ $+\frac{7}{1235}\sqrt{6454}e^4 \otimes e_9 + \frac{7}{1235}\sqrt{8890}e^2 \otimes e_7$	{123589, 15679, 2456, 34578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:94	$0, 0, 0, 0, 0, \frac{15}{46}\sqrt{6}e^{12}, \frac{5}{46}\sqrt{26}e^{13}, \frac{5}{46}\sqrt{6}e^{24},$ $\frac{15}{46}\sqrt{6}e^{15} + \frac{5}{46}\sqrt{6}e^{26}$	$(\frac{51}{92}, -\frac{3}{46}, -\frac{49}{92}, \frac{9}{46}, -\frac{3}{23}, \frac{45}{92}, \frac{1}{46}, \frac{3}{23}, \frac{39}{92})$ $+ \frac{5}{46}\sqrt{154}e^1 \otimes e_3$	{12458, 125, 1456, 1568, 2345689, 23569, 3459, 3589}
941:94	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{8555}e^{12}, \frac{18}{281}\sqrt{145}e^{13}, \frac{2}{281}\sqrt{6670}e^{24},$ $\frac{2}{281}\sqrt{14065}e^{15} + \frac{8}{281}\sqrt{290}e^{26}$	$(-\frac{72}{281}, \frac{92}{281}, -\frac{34}{281}, \frac{1}{281}, \frac{184}{281}, \frac{20}{281}, -\frac{106}{281}, \frac{93}{281}, \frac{112}{281})$ $+ \frac{6}{281}\sqrt{3770}e^5 \otimes e_7$	{124679, 126789, 14789, 179, 2347, 2378, 34678, 367}
941:94	$0, 0, 0, 0, 0, \frac{2}{3309}\sqrt{421687}e^{12}, \frac{2}{3309}\sqrt{226889}e^{13}, \frac{2}{3309}\sqrt{516271}e^{24},$ $\frac{2}{3309}\sqrt{700935}e^{15} + \frac{8}{3309}\sqrt{2815}e^{26}$	$(-\frac{581}{3309}, \frac{230}{3309}, -\frac{85}{3309}, \frac{335}{1103}, \frac{460}{3309}, -\frac{117}{1103}, -\frac{222}{1103}, \frac{1235}{3309}, -\frac{121}{3309})$ $+ \frac{2}{3309}\sqrt{780881}e^5 \otimes e_7 + \frac{4}{3309}\sqrt{225763}e^4 \otimes e_9$	{126789, 179, 2347, 34678}
941:94	$0, 0, 0, 0, 0, \frac{54}{1477}\sqrt{10}e^{12}, \frac{108}{1477}\sqrt{23}e^{13}, \frac{9}{1477}\sqrt{2346}e^{24},$ $\frac{9}{1477}\sqrt{1434}e^{15} + \frac{18}{1477}\sqrt{366}e^{26}$	$(-\frac{234}{1477}, \frac{27}{211}, \frac{180}{1477}, -\frac{36}{211}, \frac{54}{211}, -\frac{45}{1477}, -\frac{54}{1477}, -\frac{9}{211}, \frac{144}{1477})$ $+ \frac{9}{1477}\sqrt{3558}e^3 \otimes e_8 + \frac{9}{1477}\sqrt{4470}e^2 \otimes e_7$	{123459, 1456789, 2568, 357}
941:94	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{935}e^{12}, \frac{2}{283}\sqrt{2805}e^{13}, \frac{4}{283}\sqrt{935}e^{24},$ $\frac{2}{283}\sqrt{2805}e^{15} + \frac{2}{283}\sqrt{2805}e^{26}$	$(\frac{66}{283}, -\frac{52}{283}, \frac{3}{283}, \frac{132}{283}, -\frac{104}{283}, \frac{14}{283}, \frac{69}{283}, \frac{80}{283}, -\frac{38}{283})$ $+ \frac{20}{283}\sqrt{119}e^4 \otimes e_9 + \frac{2}{283}\sqrt{9095}e^1 \otimes e_5$	{12389, 12789, 1369, 1679}
941:94	$0, 0, 0, 0, 0, \frac{12}{293}\sqrt{97}e^{12}, \frac{2}{293}\sqrt{1455}e^{13}, \frac{1}{293}\sqrt{18042}e^{24},$ $\frac{12}{293}\sqrt{1455}e^{15} + \frac{5}{293}\sqrt{194}e^{26}$	$(-\frac{51}{293}, \frac{31}{293}, \frac{108}{293}, -\frac{66}{293}, \frac{62}{293}, -\frac{20}{293}, \frac{57}{293}, -\frac{35}{293}, \frac{11}{293})$ $+ \frac{1}{293}\sqrt{21534}e^3 \otimes e_9 + \frac{1}{293}\sqrt{30070}e^5 \otimes e_8$	{126789, 14789, 2378, 34678}
941:94	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{586}e^{12}, \frac{17}{1381}\sqrt{838}e^{13}, \frac{17}{1381}\sqrt{1090}e^{24},$ $\frac{34}{1381}\sqrt{314}e^{15} + \frac{34}{1381}\sqrt{209}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, -\frac{204}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{422}e^2 \otimes e_4 + \frac{34}{1381}\sqrt{334}e^5 \otimes e_7 + \frac{34}{1381}\sqrt{397}e^1 \otimes e_8$	{124679, 179}
941:94	$0, 0, 0, 0, 0, \frac{54}{3509}\sqrt{145}e^{12}, \frac{18}{3509}\sqrt{3309}e^{13}, \frac{702}{3509}\sqrt{3}e^{24},$ $\frac{18}{3509}\sqrt{1905}e^{15} + \frac{18}{3509}\sqrt{1857}e^{26}$	$(\frac{651}{3509}, -\frac{168}{3509}, -\frac{804}{3509}, \frac{333}{3509}, -\frac{336}{3509}, \frac{483}{3509}, -\frac{153}{3509}, \frac{15}{3509}, \frac{315}{3509})$ $+ \frac{18}{3509}\sqrt{4665}e^4 \otimes e_7 + \frac{18}{3509}\sqrt{4965}e^1 \otimes e_8$	{123469, 179, 2378, 468}
941:94	$0, 0, 0, 0, 0, \frac{2}{3529}\sqrt{63501}e^{12}, \frac{12}{3529}\sqrt{305}e^{13}, \frac{2}{3529}\sqrt{105042}e^{24},$ $\frac{18}{3529}\sqrt{1342}e^{15} + \frac{4}{3529}\sqrt{9089}e^{26}$	$(-\frac{360}{3529}, \frac{116}{3529}, \frac{381}{3529}, -\frac{6}{3529}, \frac{232}{3529}, -\frac{244}{3529}, \frac{3129}{3529}, \frac{110}{3529}, -\frac{128}{3529})$ $+ \frac{14}{3529}\sqrt{2257}e^5 \otimes e_8 + \frac{2}{3529}\sqrt{92415}e^4 \otimes e_9$	{1236789, 12689, 3468, 4678}
941:94	$0, 0, 0, 0, 0, \frac{2}{921}\sqrt{22879}e^{12}, \frac{2}{921}\sqrt{38497}e^{13}, \frac{4}{921}\sqrt{2055}e^{24},$ $\frac{14}{921}\sqrt{685}e^{15} + \frac{4}{307}\sqrt{274}e^{26}$	$(-\frac{274}{921}, \frac{40}{307}, \frac{80}{307}, \frac{25}{921}, \frac{80}{307}, -\frac{154}{921}, -\frac{34}{921}, \frac{145}{921}, -\frac{34}{921})$ $- \frac{40}{921}\sqrt{137}e^5 \otimes e_7 + \frac{4}{921}\sqrt{14933}e^3 \otimes e_9$	{123456, 123568, 13458, 135, 2459, 2589, 45689, 569}
941:94	$0, 0, 0, 0, 0, \frac{2}{921}\sqrt{22879}e^{12}, \frac{2}{921}\sqrt{38497}e^{13}, \frac{4}{921}\sqrt{2055}e^{24},$ $\frac{14}{921}\sqrt{685}e^{15} + \frac{4}{307}\sqrt{274}e^{26}$	$(-\frac{274}{921}, \frac{40}{307}, \frac{80}{307}, \frac{25}{921}, \frac{80}{307}, -\frac{154}{921}, -\frac{34}{921}, \frac{145}{921}, -\frac{34}{921})$ $+ \frac{40}{921}\sqrt{137}e^5 \otimes e_7 + \frac{4}{921}\sqrt{14933}e^3 \otimes e_9$	{123456, 123568, 13458, 135, 2459, 2589, 45689, 569}
941:94	$0, 0, 0, 0, 0, \frac{3}{67}\sqrt{11}e^{12}, \frac{3}{67}\sqrt{7}e^{13}, \frac{3}{67}\sqrt{65}e^{24},$ $\frac{9}{67}\sqrt{7}e^{15} + \frac{3}{67}\sqrt{11}e^{26}$	$(\frac{15}{268}, \frac{15}{134}, -\frac{57}{268}, -\frac{21}{134}, \frac{15}{67}, \frac{45}{268}, -\frac{21}{134}, -\frac{3}{67}, \frac{75}{268})$ $+ \frac{18}{67}\sqrt{2}e^2 \otimes e_7 + \frac{30}{67}e^5 \otimes e_8 + \frac{3}{67}\sqrt{73}e^1 \otimes e_3$	{1567, 3579}
941:94	$0, 0, 0, 0, 0, \frac{2}{1435}\sqrt{26537}e^{12}, \frac{4}{1435}\sqrt{11373}e^{13}, \frac{2}{1435}\sqrt{37910}e^{24},$ $\frac{3}{1435}\sqrt{1338}e^{15} + \frac{1}{1435}\sqrt{78942}e^{26}$	$(\frac{3}{35}, \frac{89}{1435}, -\frac{257}{1435}, -\frac{27}{205}, \frac{178}{1435}, \frac{212}{1435}, -\frac{134}{1435}, -\frac{20}{287}, \frac{43}{205})$ $+ \frac{1}{1435}\sqrt{263586}e^1 \otimes e_8 + \frac{3}{1435}\sqrt{34342}e^2 \otimes e_7$	{123459, 15679, 2568, 34578}
941:94	$0, 0, 0, 0, 0, \frac{2}{3621}\sqrt{137855}e^{12}, \frac{2}{3621}\sqrt{359845}e^{13}, \frac{2}{3621}\sqrt{415145}e^{24},$ $\frac{2}{3621}\sqrt{488615}e^{15} + \frac{2}{3621}\sqrt{64385}e^{26}$	$(\frac{353}{3621}, \frac{94}{1207}, -\frac{193}{1207}, -\frac{719}{3621}, \frac{188}{1207}, \frac{635}{3621}, -\frac{226}{3621}, -\frac{437}{3621}, \frac{917}{3621})$ $+ \frac{20}{3621}\sqrt{7189}e^1 \otimes e_8 + \frac{2}{3621}\sqrt{580255}e^5 \otimes e_7$	{124679, 179, 2378, 34678}
941:94	$0, 0, 0, 0, 0, \frac{39}{685}\sqrt{6}e^{12}, \frac{26}{685}\sqrt{70}e^{13}, \frac{26}{685}\sqrt{22}e^{24},$ $\frac{13}{685}\sqrt{118}e^{15} + \frac{234}{685}e^{26}$	$(-\frac{169}{685}, \frac{91}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{13}{685}, \frac{13}{685}, \frac{13}{685})$ $+ \frac{13}{685}\sqrt{358}e^2 \otimes e_4 + \frac{13}{685}\sqrt{530}e^3 \otimes e_9 - \frac{52}{685}\sqrt{23}e^5 \otimes e_7$	{1279, 14679, 2367, 347}
941:94	$0, 0, 0, 0, 0, \frac{39}{685}\sqrt{6}e^{12}, \frac{26}{685}\sqrt{70}e^{13}, \frac{26}{685}\sqrt{22}e^{24},$ $\frac{13}{685}\sqrt{118}e^{15} + \frac{234}{685}e^{26}$	$(-\frac{169}{685}, \frac{91}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{182}{685}, -\frac{78}{685}, \frac{13}{685}, \frac{13}{685}, \frac{13}{685})$ $+ \frac{13}{685}\sqrt{358}e^2 \otimes e_4 + \frac{13}{685}\sqrt{530}e^3 \otimes e_9 + \frac{52}{685}\sqrt{23}e^5 \otimes e_7$	{1279, 14679, 2367, 347}
941:94	$0, 0, 0, 0, 0, \frac{2}{75}\sqrt{13}e^{12}, \frac{1}{75}\sqrt{123}e^{13}, \frac{1}{75}\sqrt{86}e^{24},$ $\frac{2}{75}\sqrt{133}e^{15} + \frac{2}{75}\sqrt{5}e^{26}$	$(-\frac{1}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{3}{25}, \frac{2}{25}, 0, \frac{1}{25}, -\frac{2}{25}, \frac{1}{25})$ $+ \frac{1}{75}\sqrt{127}e^3 \otimes e_9 + \frac{1}{75}\sqrt{137}e^5 \otimes e_7 + \frac{1}{75}\sqrt{154}e^1 \otimes e_8$	{124679, 179, 2378, 34678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:94	$0, 0, 0, 0, 0, \frac{2}{75}\sqrt{13}e^{12}, \frac{1}{75}\sqrt{123}e^{13}, \frac{1}{75}\sqrt{86}e^{24},$ $\frac{1}{75}\sqrt{133}e^{15} + \frac{2}{75}\sqrt{5}e^{26}$	$(-\frac{1}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{3}{25}, \frac{2}{25}, 0, \frac{1}{25}, -\frac{2}{25}, \frac{1}{25})$ $+ \frac{1}{75}\sqrt{127}e^3 \otimes e_9 - \frac{1}{75}\sqrt{137}e^5 \otimes e_7 + \frac{1}{75}\sqrt{154}e^1 \otimes e_8$	{124679, 179, 2378, 34678}
941:94	$0, 0, 0, 0, 0, \frac{6}{3041}\sqrt{23433}e^{12}, \frac{30}{3041}\sqrt{2701}e^{13}, \frac{24}{3041}\sqrt{1022}e^{24},$ $\frac{6}{3041}\sqrt{4015}e^{15} + \frac{12}{3041}\sqrt{12410}e^{26}$	$(\frac{418}{3041}, -\frac{448}{3041}, \frac{836}{3041}, \frac{553}{3041}, -\frac{896}{3041}, -\frac{30}{3041}, \frac{1254}{3041}, \frac{105}{3041}, -\frac{478}{3041})$ $+ \frac{12}{3041}\sqrt{26134}e^3 \otimes e_9 + \frac{96}{3041}\sqrt{365}e^1 \otimes e_5$	{2345678, 23567, 3457, 3578}
941:94	$0, 0, 0, 0, 0, \frac{13}{1825}\sqrt{933}e^{12}, \frac{26}{1825}\sqrt{210}e^{13}, \frac{26}{1825}\sqrt{317}e^{24},$ $\frac{26}{1825}\sqrt{233}e^{15} + \frac{26}{1825}\sqrt{69}e^{26}$	$(-\frac{299}{1825}, \frac{91}{1825}, \frac{312}{1825}, \frac{52}{1825}, \frac{182}{1825}, -\frac{208}{1825}, \frac{13}{1825}, \frac{143}{1825}, -\frac{117}{1825})$ $+ \frac{13}{1825}\sqrt{1055}e^5 \otimes e_7 + \frac{13}{1825}\sqrt{1131}e^4 \otimes e_9 + \frac{13}{1825}\sqrt{1223}e^3 \otimes e_8$	{126789, 2347}
941:94	$0, 0, 0, 0, 0, \frac{14}{3625}\sqrt{5177}e^{12}, \frac{2}{3625}\sqrt{252805}e^{13}, \frac{4}{3625}\sqrt{434}e^{24},$ $\frac{2}{3625}\sqrt{225463}e^{15} + \frac{4}{3625}\sqrt{59458}e^{26}$	$(\frac{402}{3625}, -\frac{16}{3625}, -\frac{852}{3625}, \frac{321}{3625}, -\frac{32}{3625}, \frac{386}{3625}, -\frac{18}{145}, \frac{61}{725}, \frac{74}{725})$ $+ \frac{4}{3625}\sqrt{104594}e^2 \otimes e_7 + \frac{4}{3625}\sqrt{75082}e^1 \otimes e_5$	{24568, 256, 3457, 3578}
941:94	$0, 0, 0, 0, 0, \frac{18}{139}\sqrt{14}e^{12}, \frac{2}{139}\sqrt{658}e^{13}, \frac{2}{139}\sqrt{210}e^{24},$ $\frac{6}{139}\sqrt{42}e^{15} + \frac{2}{139}\sqrt{966}e^{26}$	$(\frac{15}{278}, \frac{15}{139}, -\frac{97}{278}, \frac{9}{139}, \frac{30}{278}, \frac{45}{139}, -\frac{41}{139}, \frac{24}{139}, \frac{75}{278})$ $+ \frac{2}{139}\sqrt{1162}e^1 \otimes e_3 + \frac{36}{139}\sqrt{7}e^2 \otimes e_7$	{1456789, 15679, 34578, 357}
941:94	$0, 0, 0, 0, 0, \frac{2}{3181}\sqrt{486595}e^{12}, \frac{6}{3181}\sqrt{9517}e^{13}, \frac{8}{3181}\sqrt{16885}e^{24},$ $\frac{2}{3181}\sqrt{298711}e^{15} + \frac{2}{3181}\sqrt{388355}e^{26}$	$(\frac{558}{3181}, -\frac{28}{3181}, -\frac{69}{3181}, \frac{642}{3181}, -\frac{56}{3181}, \frac{530}{3181}, \frac{489}{3181}, \frac{670}{3181}, \frac{502}{3181})$ $+ \frac{2}{3181}\sqrt{380373}e^1 \otimes e_5 + \frac{4}{3181}\sqrt{132931}e^2 \otimes e_4$	{23567, 256, 3457, 45}
941:94	$0, 0, 0, 0, 0, \frac{3}{65}\sqrt{31}e^{12}, \frac{3}{65}\sqrt{13}e^{13}, \frac{3}{65}\sqrt{59}e^{24},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{12}{65}\sqrt{2}e^{26}$	$(-\frac{3}{130}, \frac{6}{65}, -\frac{21}{130}, -\frac{3}{65}, \frac{12}{65}, \frac{9}{130}, -\frac{12}{65}, \frac{3}{65}, \frac{21}{130})$ $+ \frac{12}{65}e^1 \otimes e_3 + \frac{3}{65}\sqrt{61}e^5 \otimes e_8 + \frac{9}{65}\sqrt{5}e^4 \otimes e_7$	{126789, 2378}
941:94	$0, 0, 0, 0, 0, \frac{10}{307}\sqrt{6}e^{12}, \frac{5}{307}\sqrt{318}e^{13}, \frac{5}{307}\sqrt{174}e^{24},$ $\frac{5}{307}\sqrt{42}e^{15} + \frac{10}{307}\sqrt{67}e^{26}$	$(-\frac{135}{614}, \frac{35}{307}, \frac{105}{614}, -\frac{15}{307}, \frac{70}{307}, -\frac{65}{307}, -\frac{15}{130}, \frac{20}{307}, \frac{5}{614})$ $+ \frac{10}{307}\sqrt{123}e^2 \otimes e_7 + \frac{15}{307}\sqrt{46}e^3 \otimes e_9 + \frac{20}{307}\sqrt{13}e^5 \otimes e_8$	{146789, 3478}
941:94	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{91142}e^{12}, \frac{1}{353}\sqrt{6870}e^{13}, \frac{3}{353}\sqrt{5954}e^{24},$ $\frac{1}{353}\sqrt{3206}e^{15} + \frac{2}{353}\sqrt{22213}e^{26}$	$(-\frac{30}{353}, \frac{77}{353}, \frac{57}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{47}{353}, \frac{27}{353}, -\frac{75}{353}, \frac{124}{353})$ $+ \frac{1}{353}\sqrt{142438}e^2 \otimes e_4$	{123579, 1259, 1345679, 14569, 2356, 2567, 345, 457}
941:94	$0, 0, 0, 0, 0, \frac{3}{55}\sqrt{105}e^{12}, \frac{3}{55}\sqrt{23}e^{13}, \frac{3}{55}\sqrt{53}e^{24},$ $\frac{3}{55}\sqrt{19}e^{15} + \frac{3}{55}\sqrt{71}e^{26}$	$(\frac{3}{20}, \frac{9}{110}, -\frac{39}{220}, -\frac{27}{110}, \frac{9}{55}, \frac{51}{220}, -\frac{3}{110}, -\frac{9}{55}, \frac{69}{220})$ $+ \frac{3}{55}\sqrt{79}e^1 \otimes e_3 + \frac{6}{55}\sqrt{31}e^2 \otimes e_4$	{1259, 14569, 2356, 345}
941:94	$0, 0, 0, 0, 0, \frac{2}{583}\sqrt{27221}e^{12}, \frac{2}{583}\sqrt{32565}e^{13}, \frac{16}{583}\sqrt{167}e^{24},$ $\frac{2}{583}\sqrt{27555}e^{15} + \frac{4}{583}\sqrt{9519}e^{26}$	$(-\frac{102}{583}, \frac{128}{583}, -\frac{104}{583}, \frac{27}{583}, \frac{256}{583}, \frac{26}{583}, -\frac{206}{583}, \frac{155}{583}, \frac{14}{53})$ $+ \frac{4}{583}\sqrt{20541}e^2 \otimes e_7$	{123459, 123589, 1456789, 15679, 2456, 2568, 34578, 357}
941:94	$0, 0, 0, 0, 0, \frac{19}{1645}\sqrt{293}e^{12}, \frac{19}{1645}\sqrt{123}e^{13}, \frac{76}{1645}\sqrt{39}e^{24},$ $\frac{19}{1645}\sqrt{1193}e^{15} + \frac{19}{1645}\sqrt{119}e^{26}$	$(\frac{19}{1645}, \frac{19}{1645}, -\frac{342}{1645}, \frac{418}{1645}, \frac{38}{1645}, \frac{38}{1645}, -\frac{323}{1645}, \frac{437}{1645}, \frac{57}{1645})$ $+ \frac{19}{1645}\sqrt{1019}e^5 \otimes e_7 + \frac{19}{1645}\sqrt{811}e^1 \otimes e_3 + \frac{209}{1645}\sqrt{10}e^4 \otimes e_9$	{126789, 179, 2347, 34678}
941:94	$0, 0, 0, 0, 0, \frac{19}{1645}\sqrt{293}e^{12}, \frac{19}{1645}\sqrt{123}e^{13}, \frac{76}{1645}\sqrt{39}e^{24},$ $\frac{19}{1645}\sqrt{1193}e^{15} + \frac{19}{1645}\sqrt{119}e^{26}$	$(\frac{19}{1645}, \frac{19}{1645}, -\frac{342}{1645}, \frac{418}{1645}, \frac{38}{1645}, \frac{38}{1645}, -\frac{323}{1645}, \frac{437}{1645}, \frac{57}{1645})$ $- \frac{19}{1645}\sqrt{1019}e^5 \otimes e_7 + \frac{19}{1645}\sqrt{811}e^1 \otimes e_3 + \frac{209}{1645}\sqrt{10}e^4 \otimes e_9$	{126789, 179, 2347, 34678}
941:94	$0, 0, 0, 0, 0, \frac{6}{97}\sqrt{11}e^{12}, \frac{24}{97}\sqrt{2}e^{13}, \frac{6}{97}\sqrt{5}e^{24},$ $\frac{6}{97}\sqrt{10}e^{15} + \frac{6}{97}\sqrt{34}e^{26}$	$(-\frac{23}{97}, \frac{10}{97}, \frac{15}{97}, \frac{5}{97}, \frac{20}{97}, -\frac{13}{97}, -\frac{8}{97}, \frac{15}{97}, -\frac{3}{97})$ $+ \frac{30}{97}\sqrt{2}e^2 \otimes e_7 + \frac{6}{97}\sqrt{37}e^3 \otimes e_9$	{1456789, 15679, 34578, 357}
941:94	$0, 0, 0, 0, 0, \frac{26}{1127}\sqrt{295}e^{12}, \frac{234}{1127}\sqrt{5}e^{13}, \frac{78}{1127}\sqrt{41}e^{24},$ $\frac{78}{1127}\sqrt{23}e^{15} + \frac{104}{1127}\sqrt{10}e^{26}$	$(-\frac{221}{1127}, \frac{26}{161}, \frac{247}{1127}, -\frac{39}{161}, \frac{52}{161}, -\frac{39}{1127}, \frac{26}{1127}, -\frac{13}{161}, \frac{143}{1127})$ $+ \frac{130}{1127}\sqrt{19}e^5 \otimes e_7 + \frac{52}{1127}\sqrt{139}e^3 \otimes e_8$	{126789, 14789, 2347, 367}
941:94	$0, 0, 0, 0, 0, \frac{11}{223}\sqrt{170}e^{12}, \frac{6}{223}\sqrt{935}e^{13}, \frac{1}{223}\sqrt{37774}e^{24},$ $\frac{4}{223}\sqrt{187}e^{15} + \frac{5}{223}\sqrt{374}e^{26}$	$(-\frac{9}{223}, \frac{13}{223}, \frac{133}{223}, -\frac{67}{223}, \frac{26}{223}, \frac{4}{223}, \frac{124}{223}, -\frac{54}{223}, \frac{17}{223})$ $+ \frac{3}{223}\sqrt{7854}e^3 \otimes e_8$	{123469, 126789, 139, 14789, 2347, 28, 367, 468}
941:94	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{555}e^{12}, \frac{1}{121}\sqrt{3145}e^{13}, \frac{1}{121}\sqrt{4551}e^{24},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{3}{121}\sqrt{185}e^{26}$	$(\frac{93}{484}, -\frac{3}{242}, -\frac{203}{484}, \frac{93}{242}, -\frac{3}{121}, \frac{87}{484}, -\frac{5}{22}, \frac{45}{121}, \frac{81}{484})$ $+ \frac{5}{121}\sqrt{259}e^1 \otimes e_3 + \frac{6}{121}\sqrt{259}e^4 \otimes e_7$	{126789, 179, 2378, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:94	$0, 0, 0, 0, 0, \frac{1}{310}\sqrt{38306}e^{12}, \frac{1}{310}\sqrt{5370}e^{13}, \frac{1}{310}\sqrt{22017}e^{24},$ $\frac{1}{310}\sqrt{14678}e^{15} + \frac{2}{155}\sqrt{2506}e^{26}$	$(-\frac{3}{20}, \frac{38}{155}, \frac{39}{620}, -\frac{103}{310}, \frac{76}{155}, \frac{59}{620}, -\frac{27}{310}, -\frac{27}{310}, \frac{211}{620})$ $+\frac{1}{310}\sqrt{71242}e^2 \otimes e_4 + \frac{3}{310}\sqrt{3043}e^5 \otimes e_7$	{12359, 134569, 256, 45}
941:95	$0, 0, 0, 0, 0, \frac{19}{2405}\sqrt{1158}e^{12}, \frac{38}{2405}\sqrt{654}e^{13},$ $\frac{133}{2405}\sqrt{30}e^{14} + \frac{38}{2405}\sqrt{411}e^{23}, \frac{19}{2405}\sqrt{1706}e^{16} + \frac{38}{2405}\sqrt{573}e^{24}$	$(\frac{19}{2405}, \frac{399}{2405}, -\frac{342}{2405}, \frac{38}{2405}, -\frac{342}{2405}, \frac{418}{2405}, -\frac{323}{2405}, \frac{57}{2405}, \frac{437}{2405})$ $+\frac{19}{481}\sqrt{142}e^4 \otimes e_7 + \frac{342}{2405}\sqrt{3}e^1 \otimes e_5$	{178, 3567}
941:95	$0, 0, 0, 0, 0, \frac{38}{695}\sqrt{66}e^{12}, \frac{2}{695}\sqrt{46398}e^{13}, \frac{22}{695}\sqrt{323}e^{14} + \frac{4}{695}\sqrt{9614}e^{23},$ $\frac{2}{695}\sqrt{30514}e^{16} + \frac{2}{695}\sqrt{46398}e^{24}$	$(\frac{32}{695}, -\frac{193}{695}, \frac{289}{695}, \frac{64}{695}, \frac{99}{695}, -\frac{161}{695}, \frac{321}{695}, \frac{96}{695}, -\frac{129}{695})$ $+\frac{4}{695}\sqrt{31141}e^3 \otimes e_9$	{23457, 2347, 4569, 469}
941:95	$0, 0, 0, 0, 0, \frac{22}{845}\sqrt{141}e^{12}, \frac{33}{845}\sqrt{102}e^{13}, \frac{22}{845}\sqrt{102}e^{14} + \frac{22}{845}\sqrt{141}e^{23},$ $\frac{11}{169}\sqrt{26}e^{16} + \frac{22}{845}\sqrt{255}e^{24}$	$(-\frac{11}{845}, \frac{99}{845}, -\frac{132}{845}, -\frac{22}{845}, \frac{198}{845}, \frac{88}{845}, -\frac{11}{65}, -\frac{33}{845}, \frac{77}{845})$ $+\frac{11}{845}\sqrt{1294}e^4 \otimes e_7 + \frac{33}{845}\sqrt{34}e^5 \otimes e_9$	{1578, 3567}
941:95	$0, 0, 0, 0, 0, \frac{2}{667}\sqrt{13735}e^{12}, \frac{2}{667}\sqrt{40870}e^{13},$ $\frac{2}{667}\sqrt{74705}e^{14} + \frac{18}{667}\sqrt{1005}e^{23}, \frac{20}{667}\sqrt{134}e^{16} + \frac{2}{667}\sqrt{40870}e^{24}$	$(-\frac{1}{667}, \frac{19}{667}, -\frac{22}{667}, -\frac{2}{667}, 1, \frac{18}{667}, -\frac{1}{29}, -\frac{3}{667}, \frac{17}{667})$ $+\frac{4}{667}\sqrt{47570}e^5 \otimes e_8$	{1268, 13789, 235, 5679}
941:95	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{246}e^{12}, \frac{2}{365}\sqrt{102}e^{13}, \frac{1}{365}\sqrt{82}e^{14} + \frac{2}{365}\sqrt{31}e^{23},$ $\frac{1}{365}\sqrt{206}e^{16} + \frac{2}{365}\sqrt{102}e^{24}$	$(-\frac{1}{365}, -\frac{1}{365}, -\frac{2}{365}, -\frac{2}{365}, \frac{18}{365}, \frac{2}{365}, -\frac{3}{365}, -\frac{3}{365}, -\frac{3}{365})$ $+\frac{2}{365}\sqrt{61}e^3 \otimes e_9 + \frac{3}{73}\sqrt{2}e^4 \otimes e_7$	{3567, 367}
941:95	$0, 0, 0, 0, 0, \frac{342}{2045}\sqrt{10}e^{12}, \frac{114}{2045}\sqrt{226}e^{13}, \frac{38}{2045}\sqrt{699}e^{14} + \frac{1596}{2045}e^{23},$ $\frac{38}{2045}\sqrt{222}e^{16} + \frac{38}{2045}\sqrt{318}e^{24}$	$(\frac{228}{2045}, -\frac{19}{409}, \frac{779}{2045}, \frac{456}{2045}, -\frac{1387}{2045}, \frac{133}{2045}, \frac{1007}{2045}, \frac{684}{2045}, \frac{361}{2045})$ $+\frac{228}{2045}\sqrt{143}e^3 \otimes e_5$	{12369, 157, 2589, 3678}
941:95	$0, 0, 0, 0, 0, \frac{7}{745}\sqrt{390}e^{12}, \frac{14}{745}\sqrt{410}e^{13}, \frac{28}{745}\sqrt{35}e^{14} + \frac{28}{149}\sqrt{2}e^{23},$ $\frac{14}{149}\sqrt{19}e^{16} + \frac{7}{745}\sqrt{670}e^{24}$	$(\frac{7}{149}, -\frac{21}{149}, \frac{42}{149}, \frac{14}{149}, -\frac{42}{149}, -\frac{14}{149}, \frac{49}{149}, \frac{21}{149}, -\frac{7}{149})$ $+\frac{7}{745}\sqrt{2910}e^1 \otimes e_5 + \frac{7}{745}\sqrt{3730}e^3 \otimes e_9$	{25689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{6}{131}\sqrt{246}e^{12}, \frac{5}{131}\sqrt{123}e^{13}, \frac{7}{131}\sqrt{123}e^{14} + \frac{6}{131}\sqrt{246}e^{23},$ $\frac{1}{131}\sqrt{2829}e^{16} + \frac{12}{131}\sqrt{41}e^{24}$	$(\frac{11}{131}, \frac{35}{131}, -\frac{2}{131}, \frac{22}{131}, -\frac{88}{131}, \frac{46}{131}, \frac{9}{131}, \frac{33}{131}, \frac{57}{131})$ $+\frac{3}{131}\sqrt{2993}e^2 \otimes e_5$	{12379, 156, 26789, 358}
941:95	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10}e^{12}, \frac{1}{25}\sqrt{155}e^{13}, \frac{1}{5}\sqrt{3}e^{14} + \frac{3}{25}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{5}e^{16} + \frac{4}{25}\sqrt{10}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{25}\sqrt{15}e^2 \otimes e_5 + \frac{2}{25}\sqrt{55}e^4 \otimes e_7$	{1578, 3567}
941:95	$0, 0, 0, 0, 0, \frac{3}{488}\sqrt{10117}e^{12}, \frac{1}{244}\sqrt{16761}e^{13},$ $\frac{1}{244}\sqrt{40317}e^{14} + \frac{3}{488}\sqrt{10117}e^{23}, \frac{1}{244}\sqrt{30351}e^{16} + \frac{1}{488}\sqrt{194790}e^{24}$	$(\frac{95}{976}, \frac{51}{488}, \frac{3}{16}, \frac{95}{488}, -\frac{179}{244}, \frac{197}{976}, \frac{139}{488}, \frac{285}{976}, \frac{73}{244})$ $+\frac{3}{488}\sqrt{42582}e^4 \otimes e_5$	{1235689, 1578, 259, 3567}
941:95	$0, 0, 0, 0, 0, \frac{114}{3749}\sqrt{74}e^{12}, \frac{38}{3749}\sqrt{1129}e^{13},$ $\frac{19}{3749}\sqrt{1686}e^{14} + \frac{19}{3749}\sqrt{1806}e^{23}, \frac{19}{3749}\sqrt{3266}e^{16} + \frac{38}{3749}\sqrt{986}e^{24}$	$(\frac{38}{3749}, \frac{19}{163}, -\frac{323}{3749}, \frac{76}{3749}, -\frac{684}{3749}, \frac{475}{3749}, -\frac{285}{3749}, \frac{114}{3749}, \frac{513}{3749})$ $+\frac{19}{3749}\sqrt{5434}e^4 \otimes e_7 + \frac{38}{3749}\sqrt{429}e^3 \otimes e_5$	{1578, 367}
941:95	$0, 0, 0, 0, 0, \frac{6}{2105}\sqrt{64227}e^{12}, \frac{2}{2105}\sqrt{144714}e^{13},$ $\frac{2}{2105}\sqrt{313005}e^{14} + \frac{6}{2105}\sqrt{15989}e^{23}, \frac{4}{2105}\sqrt{132519}e^{16} + \frac{6}{2105}\sqrt{37398}e^{24}$	$(\frac{179}{2105}, \frac{209}{2105}, \frac{328}{2105}, \frac{358}{2105}, -\frac{1447}{2105}, \frac{388}{2105}, \frac{507}{2105}, \frac{537}{2105}, \frac{567}{2105})$ $+\frac{24}{2105}\sqrt{10027}e^1 \otimes e_5$	{12479, 1346, 23456789, 458}
941:95	$0, 0, 0, 0, 0, \frac{52}{1255}\sqrt{66}e^{12}, \frac{156}{1255}\sqrt{7}e^{13},$ $\frac{39}{1255}\sqrt{42}e^{14} + \frac{26}{1255}\sqrt{579}e^{23}, \frac{117}{1255}\sqrt{14}e^{16} + \frac{156}{1255}\sqrt{7}e^{24}$	$(\frac{13}{1255}, -\frac{247}{1255}, \frac{286}{1255}, \frac{26}{1255}, \frac{546}{1255}, -\frac{234}{1255}, \frac{299}{1255}, \frac{39}{1255}, -\frac{221}{1255})$ $+\frac{13}{1255}\sqrt{2490}e^5 \otimes e_8 + \frac{13}{1255}\sqrt{4254}e^3 \otimes e_9$	{23457, 4569}
941:95	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{12}{25}\sqrt{5}e^{13}, \frac{2}{25}\sqrt{15}e^{14} + \frac{6}{25}\sqrt{5}e^{23},$ $\frac{4}{25}\sqrt{15}e^{16} + \frac{2}{5}\sqrt{3}e^{24}$	$(0, \frac{1}{5}, -\frac{1}{5}, 0, 1, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{6}{25}\sqrt{35}e^5 \otimes e_7$	{12679, 135, 23789, 568}
941:95	$0, 0, 0, 0, 0, \frac{148}{3749}\sqrt{93}e^{12}, \frac{666}{3749}\sqrt{6}e^{13},$ $\frac{74}{3749}\sqrt{38}e^{14} + \frac{37}{3749}\sqrt{542}e^{23}, \frac{37}{3749}\sqrt{46}e^{16} + \frac{185}{3749}\sqrt{114}e^{24}$	$(\frac{185}{3749}, -\frac{592}{3749}, \frac{1147}{3749}, \frac{370}{3749}, -\frac{999}{3749}, -\frac{407}{3749}, \frac{1332}{3749}, \frac{555}{3749}, -\frac{222}{3749})$ $+\frac{111}{3749}\sqrt{302}e^4 \otimes e_5 + \frac{74}{3749}\sqrt{1015}e^3 \otimes e_9$	{2347, 469}
941:95	$0, 0, 0, 0, 0, \frac{22}{681}\sqrt{47}e^{12}, \frac{44}{681}\sqrt{38}e^{13}, \frac{154}{681}\sqrt{3}e^{14} + \frac{22}{681}\sqrt{47}e^{23},$ $\frac{22}{681}\sqrt{26}e^{16} + \frac{44}{681}\sqrt{59}e^{24}$	$(-\frac{11}{681}, \frac{33}{227}, -\frac{44}{227}, -\frac{22}{681}, \frac{88}{681}, -\frac{143}{681}, -\frac{11}{227}, \frac{77}{681})$ $-\frac{22}{681}\sqrt{362}e^2 \otimes e_7 + \frac{44}{227}\sqrt{7}e^5 \otimes e_9$	{1239, 1567, 2689, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:95	$0, 0, 0, 0, 0, \frac{22}{681}\sqrt{47}e^{12}, \frac{44}{681}\sqrt{38}e^{13}, \frac{154}{681}\sqrt{3}e^{14} + \frac{22}{681}\sqrt{47}e^{23},$ $\frac{22}{681}\sqrt{26}e^{16} + \frac{44}{681}\sqrt{59}e^{24}$	$(-\frac{11}{681}, \frac{33}{227}, -\frac{44}{227}, -\frac{22}{681}, \frac{319}{681}, \frac{88}{681}, -\frac{143}{681}, -\frac{11}{227}, \frac{77}{681})$ $+ \frac{22}{681}\sqrt{362}e^2 \otimes e_7 + \frac{44}{227}\sqrt{7}e^5 \otimes e_9$	{1239, 1567, 2689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{20}{1077}\sqrt{70}e^{12}, \frac{20}{1077}\sqrt{606}e^{13}, \frac{20}{359}\sqrt{6}e^{14} + \frac{20}{1077}\sqrt{70}e^{23},$ $\frac{20}{1077}\sqrt{454}e^{16} + \frac{20}{1077}\sqrt{898}e^{24}$	$(\frac{10}{359}, \frac{260}{1077}, -\frac{170}{1077}, \frac{20}{359}, -\frac{340}{1077}, \frac{290}{1077}, -\frac{140}{1077}, \frac{30}{359}, \frac{320}{1077})$ $- \frac{20}{1077}\sqrt{1082}e^2 \otimes e_7 + \frac{40}{1077}\sqrt{219}e^4 \otimes e_5$	{1235689, 1578, 259, 3567}
941:95	$0, 0, 0, 0, 0, \frac{20}{1077}\sqrt{70}e^{12}, \frac{20}{1077}\sqrt{606}e^{13}, \frac{20}{359}\sqrt{6}e^{14} + \frac{20}{1077}\sqrt{70}e^{23},$ $\frac{20}{1077}\sqrt{454}e^{16} + \frac{20}{1077}\sqrt{898}e^{24}$	$(\frac{10}{359}, \frac{260}{1077}, -\frac{170}{1077}, \frac{20}{359}, -\frac{340}{1077}, \frac{290}{1077}, -\frac{140}{1077}, \frac{30}{359}, \frac{320}{1077})$ $+ \frac{20}{1077}\sqrt{1082}e^2 \otimes e_7 + \frac{40}{1077}\sqrt{219}e^4 \otimes e_5$	{1235689, 1578, 259, 3567}
941:95	$0, 0, 0, 0, 0, \frac{7}{775}\sqrt{1722}e^{12}, \frac{42}{775}\sqrt{74}e^{13}, \frac{7}{775}\sqrt{1578}e^{14} + \frac{42}{775}\sqrt{41}e^{23},$ $\frac{21}{775}\sqrt{246}e^{16} + \frac{42}{775}\sqrt{74}e^{24}$	$(-\frac{7}{775}, \frac{133}{775}, -\frac{154}{775}, -\frac{14}{775}, \frac{126}{775}, \frac{126}{775}, -\frac{161}{775}, -\frac{21}{775}, \frac{119}{775})$ $+ \frac{14}{775}\sqrt{123}e^5 \otimes e_8 + \frac{7}{775}\sqrt{3894}e^4 \otimes e_7$	{178, 3567}
941:95	$0, 0, 0, 0, 0, \frac{102}{1385}e^{12}, \frac{17}{1385}\sqrt{397}e^{13}, \frac{17}{1385}\sqrt{707}e^{14} + \frac{34}{1385}\sqrt{191}e^{23},$ $\frac{17}{1385}\sqrt{421}e^{16} + \frac{68}{1385}\sqrt{47}e^{24}$	$(\frac{51}{1385}, -\frac{119}{1385}, \frac{272}{1385}, \frac{102}{1385}, -\frac{408}{1385}, -\frac{68}{1385}, \frac{323}{1385}, \frac{153}{1385}, -\frac{17}{1385})$ $+ \frac{17}{1385}\sqrt{1065}e^2 \otimes e_5 + \frac{68}{1385}\sqrt{91}e^3 \otimes e_9$	{2689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{76}{3147}e^{12}, \frac{76}{3147}\sqrt{293}e^{13}, \frac{38}{3147}\sqrt{651}e^{14} + \frac{38}{3147}\sqrt{626}e^{23},$ $\frac{76}{3147}\sqrt{85}e^{16} + \frac{152}{3147}\sqrt{47}e^{24}$	$(\frac{76}{3147}, \frac{171}{1049}, -\frac{95}{1049}, \frac{152}{3147}, -\frac{1007}{3147}, \frac{589}{3147}, -\frac{209}{3147}, \frac{76}{1049}, \frac{665}{3147})$ $- \frac{38}{3147}\sqrt{1634}e^2 \otimes e_7 + \frac{76}{1049}\sqrt{35}e^3 \otimes e_5$	{12369, 157, 2589, 3678}
941:95	$0, 0, 0, 0, 0, \frac{76}{3147}e^{12}, \frac{76}{3147}\sqrt{293}e^{13}, \frac{38}{3147}\sqrt{651}e^{14} + \frac{38}{3147}\sqrt{626}e^{23},$ $\frac{76}{3147}\sqrt{85}e^{16} + \frac{152}{3147}\sqrt{47}e^{24}$	$(\frac{76}{3147}, \frac{171}{1049}, -\frac{95}{1049}, \frac{152}{3147}, -\frac{1007}{3147}, \frac{589}{3147}, -\frac{209}{3147}, \frac{76}{1049}, \frac{665}{3147})$ $+ \frac{38}{3147}\sqrt{1634}e^2 \otimes e_7 + \frac{76}{1049}\sqrt{35}e^3 \otimes e_5$	{12369, 157, 2589, 3678}
941:95	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{95}e^{12}, \frac{2}{521}\sqrt{570}e^{13}, \frac{2}{521}\sqrt{20235}e^{14} + \frac{6}{521}\sqrt{95}e^{23},$ $\frac{4}{521}\sqrt{10545}e^{16} + \frac{2}{521}\sqrt{41610}e^{24}$	$(\frac{7}{521}, -\frac{63}{521}, \frac{84}{521}, \frac{14}{521}, 1, -\frac{56}{521}, \frac{91}{521}, \frac{21}{521}, -\frac{49}{521})$ $+ \frac{72}{521}\sqrt{95}e^5 \otimes e_9$	{1239, 1567, 2689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{38}{2073}\sqrt{479}e^{12}, \frac{76}{2073}\sqrt{123}e^{13},$ $\frac{38}{2073}\sqrt{87}e^{14} + \frac{38}{2073}\sqrt{35}e^{23}, \frac{38}{2073}\sqrt{170}e^{16} + \frac{532}{2073}e^{24}$	$(\frac{19}{691}, \frac{475}{2073}, -\frac{304}{2073}, \frac{38}{691}, -\frac{665}{2073}, \frac{532}{2073}, -\frac{247}{2073}, \frac{57}{691}, \frac{589}{2073})$ $- \frac{38}{2073}\sqrt{962}e^2 \otimes e_7 + \frac{76}{2073}\sqrt{222}e^1 \otimes e_5$	{1239, 167, 25689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{38}{2073}\sqrt{479}e^{12}, \frac{76}{2073}\sqrt{123}e^{13},$ $\frac{38}{2073}\sqrt{87}e^{14} + \frac{38}{2073}\sqrt{35}e^{23}, \frac{38}{2073}\sqrt{170}e^{16} + \frac{532}{2073}e^{24}$	$(\frac{19}{691}, \frac{475}{2073}, -\frac{304}{2073}, \frac{38}{691}, -\frac{665}{2073}, \frac{532}{2073}, -\frac{247}{2073}, \frac{57}{691}, \frac{589}{2073})$ $+ \frac{38}{2073}\sqrt{962}e^2 \otimes e_7 + \frac{76}{2073}\sqrt{222}e^1 \otimes e_5$	{1239, 167, 25689, 3578}
941:95	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{3813}e^{12}, \frac{1}{76}\sqrt{1581}e^{13}, \frac{1}{152}\sqrt{3162}e^{14} + \frac{1}{152}\sqrt{3813}e^{23},$ $\frac{1}{76}\sqrt{1271}e^{16} + \frac{1}{76}\sqrt{1581}e^{24}$	$(-\frac{1}{304}, \frac{15}{76}, -\frac{63}{304}, -\frac{1}{152}, \frac{9}{152}, \frac{59}{304}, -\frac{4}{19}, -\frac{3}{304}, \frac{29}{152})$ $+ \frac{1}{152}\sqrt{8866}e^4 \otimes e_7$	{1578, 178, 3567, 367}
941:95	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{30}e^{12}, \frac{2}{35}\sqrt{70}e^{13}, \frac{2}{35}\sqrt{35}e^{14} + \frac{4}{35}\sqrt{5}e^{23},$ $\frac{2}{35}\sqrt{10}e^{16} + \frac{2}{7}\sqrt{2}e^{24}$	$(0, -\frac{1}{7}, \frac{1}{7}, 0, \frac{3}{7}, -\frac{1}{7}, \frac{1}{7}, 0, -\frac{1}{7})$ $+ \frac{4}{35}\sqrt{15}e^5 \otimes e_7 + \frac{4}{7}e^3 \otimes e_9$	{2347, 4569}
941:96	$0, 0, 0, 0, 0, \frac{117}{2537}\sqrt{66}e^{12}, \frac{39}{2537}\sqrt{154}e^{13},$ $\frac{39}{2537}\sqrt{682}e^{14} + \frac{39}{2537}\sqrt{154}e^{23}, \frac{78}{2537}\sqrt{154}e^{16} + \frac{156}{2537}\sqrt{55}e^{35}$	$(-\frac{546}{2537}, \frac{858}{2537}, -\frac{117}{2537}, \frac{1287}{2537}, -\frac{117}{2537}, \frac{312}{2537}, -\frac{663}{2537}, \frac{741}{2537}, -\frac{234}{2537})$ $+ \frac{117}{2537}\sqrt{202}e^2 \otimes e_7 + \frac{117}{2537}\sqrt{290}e^4 \otimes e_9$	{12589, 2369}
941:96	$0, 0, 0, 0, 0, \frac{351}{2429}\sqrt{2}e^{12}, \frac{39}{2429}\sqrt{46}e^{13},$ $\frac{78}{2429}\sqrt{229}e^{14} + \frac{156}{2429}\sqrt{13}e^{23}, \frac{78}{2429}\sqrt{127}e^{16} + \frac{39}{2429}\sqrt{862}e^{35}$	$(-\frac{312}{2429}, \frac{39}{347}, \frac{585}{2429}, \frac{1170}{2429}, -\frac{936}{2429}, -\frac{39}{2429}, \frac{39}{347}, \frac{858}{2429}, -\frac{351}{2429})$ $+ \frac{117}{2429}\sqrt{178}e^3 \otimes e_5 + \frac{234}{2429}\sqrt{74}e^4 \otimes e_9$	{13789, 5679}
941:96	$0, 0, 0, 0, 0, \frac{9}{1085}\sqrt{30}e^{12}, \frac{9}{1085}\sqrt{130}e^{13},$ $\frac{36}{1085}\sqrt{185}e^{14} + \frac{9}{1085}\sqrt{2170}e^{23}, \frac{9}{1085}\sqrt{310}e^{16} + \frac{36}{217}\sqrt{11}e^{35}$	$(-\frac{36}{217}, \frac{9}{31}, -\frac{27}{217}, \frac{72}{217}, \frac{18}{217}, \frac{27}{217}, -\frac{9}{31}, \frac{36}{217}, -\frac{9}{217})$ $+ \frac{9}{1085}\sqrt{4290}e^5 \otimes e_7 + \frac{9}{217}\sqrt{222}e^4 \otimes e_9$	{1247, 379}
941:96	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{35}e^{12}, \frac{1}{21}\sqrt{91}e^{13}, \frac{1}{21}\sqrt{77}e^{14} + \frac{1}{63}\sqrt{483}e^{23},$ $\frac{4}{63}\sqrt{42}e^{16} + \frac{2}{9}\sqrt{3}e^{35}$	$(\frac{1}{6}, -\frac{2}{9}, \frac{2}{9}, -\frac{1}{6}, -\frac{1}{9}, -\frac{1}{18}, \frac{7}{18}, 0, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{273}e^3 \otimes e_5 + \frac{8}{63}\sqrt{21}e^1 \otimes e_4$	{1567, 45}
941:96	$0, 0, 0, 0, 0, \frac{8}{383}\sqrt{15}e^{12}, \frac{32}{1149}\sqrt{51}e^{13}, \frac{8}{383}\sqrt{170}e^{14} + \frac{8}{1149}\sqrt{69}e^{23},$ $\frac{8}{1149}\sqrt{123}e^{16} + \frac{8}{383}\sqrt{165}e^{35}$	$(-\frac{24}{383}, \frac{148}{1149}, -\frac{40}{383}, \frac{100}{1149}, \frac{124}{1149}, \frac{76}{1149}, -\frac{64}{383}, \frac{28}{1149}, \frac{4}{1149})$ $- \frac{56}{1149}\sqrt{33}e^5 \otimes e_8 + \frac{8}{1149}\sqrt{1590}e^4 \otimes e_9$	{1236789, 13457, 2579, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:96	$0, 0, 0, 0, 0, \frac{8}{383}\sqrt{15}e^{12}, \frac{32}{1149}\sqrt{51}e^{13}, \frac{8}{383}\sqrt{170}e^{14} + \frac{8}{1149}\sqrt{69}e^{23},$ $\frac{8}{1149}\sqrt{123}e^{16} + \frac{8}{383}\sqrt{165}e^{35}$	$(-\frac{24}{383}, \frac{148}{1149}, -\frac{40}{383}, \frac{100}{1149}, \frac{124}{1149}, \frac{76}{1149}, -\frac{64}{383}, \frac{28}{1149}, \frac{4}{1149})$ $+ \frac{56}{1149}\sqrt{33}e^5 \otimes e_8 + \frac{8}{1149}\sqrt{1590}e^4 \otimes e_9$	{1236789, 13457, 2579, 4678}
941:96	$0, 0, 0, 0, 0, \frac{36}{2309}\sqrt{285}e^{12}, \frac{6}{2309}\sqrt{50635}e^{13},$ $\frac{12}{2309}\sqrt{22135}e^{14} + \frac{12}{2309}\sqrt{8930}e^{23}, \frac{6}{2309}\sqrt{29830}e^{16} + \frac{132}{2309}\sqrt{190}e^{35}$	$(-\frac{474}{2309}, \frac{615}{2309}, \frac{288}{2309}, \frac{1377}{2309}, -\frac{621}{2309}, \frac{141}{2309}, -\frac{186}{2309}, \frac{903}{2309}, -\frac{333}{2309})$ $+ \frac{18}{2309}\sqrt{20710}e^4 \otimes e_9$	{123789, 134567, 25679, 478}
941:96	$0, 0, 0, 0, 0, \frac{702}{7181}e^{12}, \frac{78}{7181}\sqrt{1226}e^{13}, \frac{39}{7181}\sqrt{3602}e^{14} + \frac{39}{7181}\sqrt{5410}e^{23},$ $\frac{78}{7181}\sqrt{253}e^{16} + \frac{39}{7181}\sqrt{3494}e^{35}$	$(-\frac{897}{7181}, \frac{975}{7181}, \frac{351}{7181}, \frac{2223}{7181}, -\frac{1170}{7181}, \frac{78}{7181}, -\frac{546}{7181}, \frac{1326}{7181}, -\frac{819}{7181})$ $+ \frac{117}{7181}\sqrt{742}e^3 \otimes e_5 + \frac{234}{7181}\sqrt{190}e^2 \otimes e_7$	{1567, 378}
941:96	$0, 0, 0, 0, 0, \frac{27}{271}\sqrt{29}e^{12}, \frac{3}{271}\sqrt{5771}e^{13}, \frac{3}{271}\sqrt{6235}e^{14} + \frac{3}{271}\sqrt{2813}e^{23},$ $\frac{6}{271}\sqrt{899}e^{16} + \frac{12}{271}\sqrt{58}e^{35}$	$(-\frac{135}{542}, \frac{126}{271}, -\frac{30}{271}, \frac{327}{542}, \frac{21}{271}, \frac{117}{542}, -\frac{195}{542}, \frac{96}{271}, -\frac{9}{271})$ $+ \frac{18}{271}\sqrt{377}e^4 \otimes e_7$	{1345, 178, 3567, 468}
941:96	$0, 0, 0, 0, 0, \frac{18}{2273}\sqrt{6441}e^{12}, \frac{24}{2273}\sqrt{4181}e^{13},$ $\frac{6}{2273}\sqrt{64523}e^{14} + \frac{6}{2273}\sqrt{80569}e^{23}, \frac{66}{2273}\sqrt{226}e^{16} + \frac{120}{2273}\sqrt{113}e^{35}$	$(-\frac{429}{2273}, \frac{1047}{2273}, -\frac{558}{2273}, \frac{918}{2273}, \frac{747}{2273}, \frac{618}{2273}, -\frac{987}{2273}, \frac{489}{2273}, \frac{189}{2273})$ $+ \frac{18}{2273}\sqrt{24182}e^2 \otimes e_7$	{12359, 1567, 2689, 378}
941:96	$0, 0, 0, 0, 0, \frac{9}{283}\sqrt{506}e^{12}, \frac{3}{283}\sqrt{2990}e^{13}, \frac{12}{283}\sqrt{230}e^{14} + \frac{3}{283}\sqrt{46}e^{23},$ $\frac{69}{283}\sqrt{10}e^{16} + \frac{3}{283}\sqrt{2162}e^{35}$	$(\frac{84}{283}, -\frac{60}{283}, \frac{21}{283}, -\frac{123}{283}, \frac{87}{283}, \frac{24}{283}, \frac{105}{283}, -\frac{39}{283}, \frac{108}{283})$ $+ \frac{27}{283}\sqrt{138}e^1 \otimes e_4$	{12359, 1567, 2345679, 45}
941:96	$0, 0, 0, 0, 0, \frac{27}{271}\sqrt{29}e^{12}, \frac{3}{271}\sqrt{5771}e^{13}, \frac{3}{271}\sqrt{2813}e^{14} + \frac{3}{271}\sqrt{6235}e^{23},$ $\frac{12}{271}\sqrt{58}e^{16} + \frac{6}{271}\sqrt{899}e^{35}$	$(\frac{21}{542}, -\frac{30}{271}, \frac{126}{271}, \frac{171}{542}, -\frac{135}{271}, -\frac{39}{542}, \frac{273}{542}, \frac{96}{271}, -\frac{9}{271})$ $+ \frac{18}{271}\sqrt{377}e^3 \otimes e_5$	{1236, 1245678, 2347, 258}
941:96	$0, 0, 0, 0, 0, \frac{18}{89}e^{12}, \frac{6}{89}\sqrt{146}e^{13}, \frac{6}{89}\sqrt{37}e^{14} + \frac{6}{89}\sqrt{89}e^{23},$ $\frac{12}{89}\sqrt{23}e^{16} + \frac{24}{89}\sqrt{10}e^{35}$	$(-\frac{3}{89}, \frac{33}{89}, -\frac{30}{89}, \frac{6}{89}, \frac{57}{89}, \frac{30}{89}, -\frac{33}{89}, \frac{3}{89}, \frac{27}{89})$ $+ \frac{18}{89}\sqrt{42}e^5 \otimes e_7$	{1345, 178, 234789, 259}
941:96	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{357}e^{12}, \frac{1}{9}\sqrt{3}e^{13}, \frac{1}{63}\sqrt{1155}e^{14} + \frac{1}{63}\sqrt{21}e^{23},$ $\frac{2}{9}\sqrt{3}e^{16} + \frac{4}{63}\sqrt{42}e^{35}$	$(-\frac{1}{18}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{18}, \frac{1}{3}, \frac{1}{6}, -\frac{5}{18}, 0, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{273}e^4 \otimes e_7 - \frac{8}{63}\sqrt{21}e^5 \otimes e_8$	{1345, 178, 3567, 468}
941:96	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{357}e^{12}, \frac{1}{9}\sqrt{3}e^{13}, \frac{1}{63}\sqrt{1155}e^{14} + \frac{1}{63}\sqrt{21}e^{23},$ $\frac{2}{9}\sqrt{3}e^{16} + \frac{4}{63}\sqrt{42}e^{35}$	$(-\frac{1}{18}, \frac{2}{9}, -\frac{2}{9}, \frac{1}{18}, \frac{1}{3}, \frac{1}{6}, -\frac{5}{18}, 0, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{273}e^4 \otimes e_7 + \frac{8}{63}\sqrt{21}e^5 \otimes e_8$	{1345, 178, 3567, 468}
941:96	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{2}e^{12}, \frac{2}{7}\sqrt{3}e^{13}, \frac{1}{7}\sqrt{6}e^{14} + \frac{2}{7}e^{23},$ $\frac{1}{7}\sqrt{6}e^{16} + \frac{1}{7}\sqrt{2}e^{35}$	$(\frac{1}{7}, 0, -\frac{1}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, 0, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{22}e^1 \otimes e_4 + \frac{4}{7}e^5 \otimes e_7$	{1356, 24569}
941:96	$0, 0, 0, 0, 0, \frac{495}{2279}\sqrt{2}e^{12}, \frac{11}{2279}\sqrt{3606}e^{13},$ $\frac{22}{2279}\sqrt{1038}e^{14} + \frac{33}{2279}\sqrt{230}e^{23}, \frac{33}{2279}\sqrt{410}e^{16} + \frac{11}{2279}\sqrt{2802}e^{35}$	$(\frac{88}{2279}, \frac{132}{2279}, -\frac{319}{2279}, -\frac{275}{2279}, \frac{627}{2279}, \frac{220}{2279}, -\frac{231}{2279}, -\frac{187}{2279}, \frac{308}{2279})$ $+ \frac{77}{2279}\sqrt{138}e^1 \otimes e_4 + \frac{88}{2279}\sqrt{93}e^2 \otimes e_7$	{12359, 1567}
941:97	$0, 0, 0, 0, 0, \frac{33}{2969}\sqrt{746}e^{12}, \frac{33}{2969}\sqrt{494}e^{13},$ $\frac{33}{2969}\sqrt{914}e^{14} + \frac{33}{2969}\sqrt{494}e^{23}, \frac{66}{2969}\sqrt{494}e^{26} + \frac{198}{2969}\sqrt{14}e^{35}$	$(-\frac{726}{2969}, \frac{462}{2969}, \frac{99}{2969}, \frac{1287}{2969}, \frac{99}{2969}, -\frac{264}{2969}, -\frac{627}{2969}, \frac{561}{2969}, \frac{198}{2969})$ $+ \frac{1155}{2969}\sqrt{2}e^2 \otimes e_7 + \frac{33}{2969}\sqrt{2786}e^4 \otimes e_9$	{12389, 156789}
941:97	$0, 0, 0, 0, 0, \frac{2}{117}\sqrt{301}e^{12}, \frac{7}{117}\sqrt{6}e^{13}, \frac{2}{117}\sqrt{994}e^{14} + \frac{2}{117}\sqrt{259}e^{23},$ $\frac{28}{117}e^{26} + \frac{1}{117}\sqrt{2422}e^{35}$	$(-\frac{14}{117}, \frac{7}{39}, -\frac{7}{39}, \frac{14}{117}, \frac{49}{117}, \frac{7}{117}, -\frac{35}{117}, 0, \frac{28}{117})$ $+ \frac{1}{117}\sqrt{4242}e^4 \otimes e_7 + \frac{1}{117}\sqrt{6118}e^5 \otimes e_8$	{13789, 1459}
941:97	$0, 0, 0, 0, 0, \frac{102}{1189}\sqrt{13}e^{12}, \frac{68}{1189}\sqrt{26}e^{13},$ $\frac{34}{1189}\sqrt{39}e^{14} + \frac{34}{1189}\sqrt{249}e^{23}, \frac{68}{1189}\sqrt{39}e^{26} + \frac{34}{1189}\sqrt{26}e^{35}$	$(-\frac{119}{1189}, \frac{221}{1189}, -\frac{238}{1189}, \frac{102}{1189}, \frac{561}{1189}, \frac{102}{1189}, -\frac{357}{1189}, -\frac{17}{1189}, \frac{323}{1189})$ $+ \frac{34}{1189}\sqrt{446}e^5 \otimes e_8 + \frac{34}{1189}\sqrt{602}e^2 \otimes e_7$	{145679, 2468}
941:97	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{770}e^{12}, \frac{2}{123}\sqrt{1265}e^{13}, \frac{10}{123}\sqrt{22}e^{14} + \frac{1}{123}\sqrt{1870}e^{23},$ $\frac{2}{123}\sqrt{110}e^{26} + \frac{1}{123}\sqrt{2090}e^{35}$	$(\frac{31}{123}, -\frac{6}{41}, \frac{25}{123}, -\frac{8}{41}, -\frac{10}{41}, \frac{13}{123}, \frac{56}{123}, \frac{7}{123}, -\frac{5}{123})$ $+ \frac{1}{123}\sqrt{6490}e^3 \otimes e_5 + \frac{2}{41}\sqrt{165}e^1 \otimes e_4$	{23467, 45}
941:97	$0, 0, 0, 0, 0, \frac{20}{2669}\sqrt{4015}e^{12}, \frac{20}{2669}\sqrt{12155}e^{13},$ $\frac{10}{2669}\sqrt{45210}e^{14} + \frac{10}{2669}\sqrt{21395}e^{23}, \frac{10}{2669}\sqrt{17490}e^{26} + \frac{20}{2669}\sqrt{1705}e^{35}$	$(-\frac{973}{2669}, \frac{804}{2669}, \frac{70}{2669}, \frac{1847}{2669}, \frac{565}{2669}, -\frac{169}{2669}, -\frac{903}{2669}, \frac{874}{2669}, \frac{635}{2669})$ $+ \frac{20}{2669}\sqrt{30635}e^4 \otimes e_7$	{134, 1578, 35679, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:97	$0, 0, 0, 0, 0, \frac{2}{2601}\sqrt{169597e^{12}}, \frac{4}{2601}\sqrt{163038e^{13}},$ $\frac{2}{2601}\sqrt{883591e^{14}} + \frac{2}{2601}\sqrt{608113e^{23}}, \frac{2}{2601}\sqrt{414154e^{26}} + \frac{2}{2601}\sqrt{965110e^{35}}$	$(\frac{287}{2601}, \frac{109}{867}, -\frac{70}{289}, -\frac{590}{2601}, \frac{1571}{2601}, \frac{614}{2601}, -\frac{343}{2601}, -\frac{101}{867}, \frac{941}{2601})$ $+ \frac{4}{2601}\sqrt{526594e^5} \otimes e_8$	{13789, 1459, 235, 2478}
941:97	$0, 0, 0, 0, 0, \frac{23}{6921}\sqrt{382e^{12}}, \frac{23}{6921}\sqrt{3162e^{13}},$ $\frac{184}{6921}\sqrt{94e^{14}} + \frac{23}{6921}\sqrt{662e^{23}}, \frac{23}{6921}\sqrt{986e^{26}} + \frac{46}{6921}\sqrt{1390e^{35}}$	$(-\frac{713}{6921}, \frac{184}{2307}, -\frac{115}{2307}, \frac{920}{6921}, \frac{736}{6921}, -\frac{161}{6921}, -\frac{1058}{6921}, \frac{23}{769}, \frac{391}{6921})$ $+ \frac{23}{6921}\sqrt{5986e^5} \otimes e_8 + \frac{23}{6921}\sqrt{6810e^4} \otimes e_9$	{13457, 2579}
941:97	$0, 0, 0, 0, 0, \frac{10}{2669}\sqrt{45210e^{12}}, \frac{20}{2669}\sqrt{12155e^{13}},$ $\frac{20}{2669}\sqrt{4015e^{14}} + \frac{10}{2669}\sqrt{21395e^{23}}, \frac{10}{2669}\sqrt{17490e^{26}} + \frac{20}{2669}\sqrt{1705e^{35}}$	$(\frac{1255}{2669}, \frac{310}{2669}, \frac{70}{2669}, \frac{1495}{2669}, \frac{565}{2669}, \frac{945}{2669}, \frac{1325}{2669}, -\frac{240}{2669}, \frac{635}{2669})$ $+ \frac{20}{2669}\sqrt{30635e^1} \otimes e_4$	{1279, 13569, 2456, 347}
941:97	$0, 0, 0, 0, 0, \frac{33}{2021}\sqrt{34e^{12}}, \frac{66}{2021}\sqrt{69e^{13}},$ $\frac{66}{2021}\sqrt{377e^{14}} + \frac{33}{2021}\sqrt{794e^{23}}, \frac{66}{2021}\sqrt{259e^{26}} + \frac{33}{2021}\sqrt{1174e^{35}}$	$(-\frac{363}{2021}, \frac{132}{2021}, \frac{495}{2021}, \frac{990}{2021}, -\frac{594}{2021}, -\frac{231}{2021}, \frac{132}{2021}, \frac{627}{2021}, -\frac{99}{2021})$ $+ \frac{33}{2021}\sqrt{554e^3} \otimes e_5 + \frac{66}{2021}\sqrt{737e^4} \otimes e_9$	{123789, 15689}
941:97	$0, 0, 0, 0, 0, \frac{140}{8181}\sqrt{271e^{12}}, \frac{35}{2727}\sqrt{658e^{13}},$ $\frac{35}{8181}\sqrt{3226e^{14}} + \frac{35}{8181}\sqrt{658e^{23}}, \frac{35}{8181}\sqrt{4174e^{26}} + \frac{70}{8181}\sqrt{793e^{35}}$	$(\frac{280}{8181}, \frac{140}{2727}, -\frac{1085}{8181}, -\frac{35}{303}, \frac{245}{909}, \frac{700}{8181}, -\frac{805}{8181}, -\frac{665}{8181}, \frac{1120}{8181})$ $+ \frac{35}{2727}\sqrt{706e^1} \otimes e_4 + \frac{35}{8181}\sqrt{8770e^2} \otimes e_7$	{12359, 1679}
941:97	$0, 0, 0, 0, 0, \frac{90}{3341}\sqrt{94e^{12}}, \frac{45}{3341}\sqrt{438e^{13}},$ $\frac{90}{3341}\sqrt{331e^{14}} + \frac{45}{3341}\sqrt{778e^{23}}, \frac{90}{3341}\sqrt{134e^{26}} + \frac{90}{3341}\sqrt{407e^{35}}$	$(\frac{765}{3341}, \frac{90}{3341}, -\frac{45}{257}, -\frac{1260}{3341}, \frac{1530}{3341}, \frac{855}{3341}, \frac{180}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+ \frac{45}{3341}\sqrt{1994e^1} \otimes e_4 + \frac{45}{3341}\sqrt{3890e^5} \otimes e_8$	{128, 3489}
941:97	$0, 0, 0, 0, 0, \frac{11}{624}\sqrt{985e^{12}}, \frac{11}{312}\sqrt{590e^{13}},$ $\frac{11}{624}\sqrt{985e^{14}} + \frac{11}{624}\sqrt{2410e^{23}}, \frac{11}{312}e^{26} + \frac{11}{39}\sqrt{5e^{35}}$	$(\frac{11}{156}, -\frac{33}{416}, \frac{275}{624}, \frac{121}{416}, -\frac{55}{104}, -\frac{11}{1248}, \frac{319}{624}, \frac{451}{1248}, -\frac{55}{624})$ $+ \frac{11}{624}\sqrt{5410e^3} \otimes e_5$	{2347, 258, 3678, 456}
941:97	$0, 0, 0, 0, 0, \frac{2}{2717}\sqrt{85614e^{12}}, \frac{4}{2717}\sqrt{75851e^{13}},$ $\frac{4}{2717}\sqrt{239569e^{14}} + \frac{2}{2717}\sqrt{616571e^{23}}, \frac{2}{2717}\sqrt{626334e^{26}} + \frac{4}{2717}\sqrt{194509e^{35}}$	$(-\frac{593}{2717}, \frac{14}{143}, \frac{582}{2717}, \frac{131}{247}, -\frac{643}{2717}, -\frac{327}{2717}, -\frac{1}{247}, \frac{848}{2717}, -\frac{61}{2717})$ $+ \frac{4}{2717}\sqrt{436331e^4} \otimes e_9$	{123789, 15689, 234568, 478}
941:97	$0, 0, 0, 0, 0, \frac{2}{2673}\sqrt{495919e^{12}}, \frac{4}{891}\sqrt{21242e^{13}},$ $\frac{2}{2673}\sqrt{441997e^{14}} + \frac{2}{2673}\sqrt{373369e^{23}}, \frac{2}{2673}\sqrt{782686e^{26}} + \frac{2}{2673}\sqrt{537586e^{35}}$	$(-\frac{625}{2673}, \frac{217}{891}, -\frac{358}{2673}, \frac{34}{99}, \frac{115}{297}, \frac{26}{2673}, -\frac{983}{2673}, \frac{293}{2673}, \frac{677}{2673})$ $+ \frac{4}{2673}\sqrt{468958e^2} \otimes e_7$	{12359, 1679, 2568, 378}
941:97	$0, 0, 0, 0, 0, \frac{44}{821}\sqrt{42e^{12}}, \frac{44}{2463}\sqrt{354e^{13}},$ $\frac{11}{821}\sqrt{358e^{14}} + \frac{11}{821}\sqrt{474e^{23}}, \frac{22}{2463}\sqrt{699e^{26}} + \frac{11}{2463}\sqrt{3930e^{35}}$	$(-\frac{121}{821}, \frac{55}{821}, \frac{55}{821}, \frac{231}{821}, -\frac{66}{821}, -\frac{66}{821}, -\frac{66}{821}, \frac{110}{821}, -\frac{11}{821})$ $+ \frac{11}{2463}\sqrt{6054e^3} \otimes e_5 + \frac{22}{2463}\sqrt{1947e^2} \otimes e_7$	{2568, 378}
941:97	$0, 0, 0, 0, 0, \frac{10}{123}\sqrt{22e^{12}}, \frac{2}{123}\sqrt{1265e^{13}}, \frac{1}{123}\sqrt{770e^{14}} + \frac{1}{123}\sqrt{1870e^{23}},$ $\frac{2}{123}\sqrt{110e^{26}} + \frac{1}{123}\sqrt{2090e^{35}}$	$(-\frac{23}{123}, \frac{3}{41}, \frac{25}{123}, \frac{19}{41}, -\frac{10}{41}, -\frac{14}{123}, \frac{2}{123}, \frac{34}{123}, -\frac{5}{123})$ $+ \frac{1}{123}\sqrt{6490e^3} \otimes e_5 + \frac{2}{41}\sqrt{165e^4} \otimes e_7$	{12346, 125678}
941:98	$0, 0, 0, 0, 0, \frac{2}{2689}\sqrt{328605e^{12}}, \frac{4}{2689}\sqrt{43814e^{13}},$ $\frac{6}{2689}\sqrt{74945e^{14}} + \frac{22}{2689}\sqrt{8071e^{23}}, \frac{2}{2689}\sqrt{306698e^{16}} + \frac{2}{2689}\sqrt{910870e^{45}}$	$(\frac{543}{2689}, -\frac{137}{2689}, -\frac{270}{2689}, -\frac{950}{2689}, \frac{1899}{2689}, \frac{406}{2689}, \frac{273}{2689}, -\frac{407}{2689}, \frac{949}{2689})$ $+ \frac{4}{2689}\sqrt{652598e^5} \otimes e_8$	{1378, 145, 2359, 24789}
941:98	$0, 0, 0, 0, 0, \frac{2}{2757}\sqrt{82030e^{12}}, \frac{4}{2757}\sqrt{112949e^{13}},$ $\frac{2}{2757}\sqrt{613963e^{14}} + \frac{4}{2757}\sqrt{165322e^{23}}, \frac{4}{2757}\sqrt{104746e^{16}} + \frac{2}{2757}\sqrt{644882e^{45}}$	$(\frac{124}{2757}, -\frac{517}{2757}, \frac{331}{919}, \frac{352}{2757}, -\frac{207}{919}, -\frac{131}{919}, \frac{1117}{2757}, \frac{476}{2757}, -\frac{269}{2757})$ $+ \frac{4}{2757}\sqrt{371659e^3} \otimes e_9$	{1236, 1579, 23457, 469}
941:98	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{273e^{12}}, \frac{87}{5093}\sqrt{398e^{13}},$ $\frac{58}{5093}\sqrt{219e^{14}} + \frac{29}{5093}\sqrt{1506e^{23}}, \frac{203}{5093}\sqrt{2e^{16}} + \frac{58}{5093}\sqrt{930e^{45}}$	$(-\frac{290}{5093}, \frac{261}{5093}, \frac{522}{5093}, \frac{1073}{5093}, -\frac{1392}{5093}, -\frac{29}{5093}, \frac{232}{5093}, \frac{783}{5093}, -\frac{29}{463})$ $+ \frac{29}{5093}\sqrt{4054e^4} \otimes e_7 + \frac{58}{5093}\sqrt{1299e^3} \otimes e_9$	{13458, 3678}
941:98	$0, 0, 0, 0, 0, \frac{2}{173}\sqrt{3397e^{12}}, \frac{2}{173}\sqrt{3318e^{13}}, \frac{2}{173}\sqrt{3239e^{14}} + \frac{2}{173}\sqrt{3397e^{23}},$ $\frac{2}{173}\sqrt{158e^{16}} + \frac{2}{173}\sqrt{1817e^{45}}$	$(-\frac{16}{173}, \frac{87}{173}, -\frac{55}{173}, \frac{48}{173}, \frac{7}{173}, \frac{71}{173}, -\frac{71}{173}, \frac{32}{173}, \frac{55}{173})$ $+ \frac{2}{173}\sqrt{11297e^2} \otimes e_7$	{12359, 167, 25689, 378}
941:98	$0, 0, 0, 0, 0, \frac{5}{632}\sqrt{2391e^{12}}, \frac{1}{316}\sqrt{7970e^{13}},$ $\frac{1}{632}\sqrt{428786e^{14}} + \frac{5}{632}\sqrt{2391e^{23}}, \frac{1}{632}\sqrt{55790e^{16}} + \frac{3}{632}\sqrt{7970e^{45}}$	$(-\frac{155}{1264}, \frac{87}{316}, \frac{313}{1264}, \frac{51}{79}, -\frac{389}{632}, \frac{193}{1264}, \frac{1}{8}, \frac{661}{1264}, \frac{19}{632})$ $+ \frac{1}{632}\sqrt{849602e^4} \otimes e_5$	{1347, 158, 356, 4678}
941:98	$0, 0, 0, 0, 0, \frac{13}{794}\sqrt{178e^{12}}, \frac{13}{397}\sqrt{69e^{13}}, \frac{13}{794}\sqrt{2e^{14}} + \frac{13}{794}\sqrt{910e^{23}},$ $\frac{91}{397}e^{16} + \frac{13}{794}\sqrt{674e^{45}}$	$(\frac{13}{397}, \frac{78}{397}, -\frac{104}{397}, -\frac{39}{397}, \frac{143}{397}, \frac{91}{397}, -\frac{91}{397}, -\frac{26}{397}, \frac{104}{397})$ $+ \frac{13}{397}\sqrt{366e^5} \otimes e_8 + \frac{13}{794}\sqrt{1358e^2} \otimes e_7$	{15679, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:98	$0, 0, 0, 0, 0, \frac{15}{37}e^{12}, \frac{5}{37}\sqrt{10}e^{13}, \frac{5}{37}\sqrt{2}e^{14} + \frac{15}{37}e^{23},$ $\frac{5}{37}\sqrt{2}e^{16} + \frac{5}{37}\sqrt{3}e^{45}$	$(-\frac{5}{37}, \frac{15}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{5}{37})$ $+ \frac{5}{37}\sqrt{26}e^4 \otimes e_5 + \frac{5}{37}\sqrt{39}e^2 \otimes e_7$	{14679, 34789}
941:98	$0, 0, 0, 0, 0, \frac{3}{640}\sqrt{9177}e^{12}, \frac{19}{640}\sqrt{690}e^{13},$ $\frac{1}{320}\sqrt{38019}e^{14} + \frac{3}{640}\sqrt{9177}e^{23}, \frac{1}{32}\sqrt{437}e^{16} + \frac{1}{320}\sqrt{48507}e^{45}$	$(-\frac{167}{1280}, \frac{27}{64}, -\frac{219}{1280}, \frac{61}{160}, -\frac{141}{640}, \frac{373}{1280}, -\frac{193}{640}, \frac{321}{1280}, \frac{103}{640})$ $+ \frac{1}{640}\sqrt{488566}e^4 \otimes e_7$	{1345, 178, 367, 4568}
941:98	$0, 0, 0, 0, 0, \frac{93}{6509}\sqrt{130}e^{12}, \frac{31}{6509}\sqrt{1726}e^{13},$ $\frac{124}{6509}\sqrt{105}e^{14} + \frac{31}{6509}\sqrt{4714}e^{23}, \frac{31}{6509}\sqrt{1258}e^{16} + \frac{248}{6509}\sqrt{70}e^{45}$	$(\frac{558}{6509}, -\frac{1147}{6509}, \frac{930}{6509}, -\frac{775}{6509}, \frac{744}{6509}, -\frac{589}{6509}, \frac{1488}{6509}, -\frac{217}{6509}, -\frac{31}{6509})$ $+ \frac{155}{6509}\sqrt{282}e^3 \otimes e_9 + \frac{31}{6509}\sqrt{4718}e^5 \otimes e_8$	{1579, 23457}
941:98	$0, 0, 0, 0, 0, \frac{195}{3389}\sqrt{14}e^{12}, \frac{78}{3389}\sqrt{393}e^{13},$ $\frac{39}{3389}\sqrt{1886}e^{14} + \frac{156}{3389}\sqrt{143}e^{23}, \frac{78}{3389}\sqrt{358}e^{16} + \frac{39}{3389}\sqrt{2218}e^{45}$	$(\frac{78}{3389}, -\frac{507}{3389}, \frac{1170}{3389}, \frac{585}{3389}, -\frac{936}{3389}, -\frac{429}{3389}, \frac{1248}{3389}, \frac{663}{3389}, -\frac{351}{3389})$ $+ \frac{663}{3389}\sqrt{2}e^4 \otimes e_5 + \frac{78}{3389}\sqrt{1319}e^3 \otimes e_9$	{1579, 469}
941:98	$0, 0, 0, 0, 0, \frac{3}{247}\sqrt{62}e^{12}, \frac{6}{247}\sqrt{65}e^{13}, \frac{54}{247}e^{14} + \frac{3}{247}\sqrt{330}e^{23},$ $\frac{6}{247}\sqrt{35}e^{16} + \frac{9}{247}\sqrt{30}e^{45}$	$(-\frac{12}{247}, \frac{15}{247}, \frac{9}{247}, \frac{36}{247}, -\frac{45}{247}, \frac{3}{247}, -\frac{3}{247}, \frac{24}{247}, -\frac{9}{247})$ $+ \frac{3}{247}\sqrt{362}e^2 \otimes e_7 + \frac{6}{247}\sqrt{134}e^3 \otimes e_9$	{25689, 378}
941:98	$0, 0, 0, 0, 0, \frac{74}{6997}\sqrt{546}e^{12}, \frac{37}{6997}\sqrt{3070}e^{13},$ $\frac{74}{6997}\sqrt{935}e^{14} + \frac{37}{6997}\sqrt{770}e^{23}, \frac{185}{6997}\sqrt{138}e^{16} + \frac{74}{6997}\sqrt{1142}e^{45}$	$(-\frac{74}{6997}, \frac{1221}{6997}, -\frac{1406}{6997}, \frac{111}{6997}, \frac{1184}{6997}, \frac{1147}{6997}, -\frac{1480}{6997}, \frac{185}{6997}, \frac{1073}{6997})$ $+ \frac{37}{6997}\sqrt{7058}e^4 \otimes e_7 + \frac{74}{6997}\sqrt{1477}e^5 \otimes e_8$	{23579, 2489}
941:99	$0, 0, 0, 0, 0, \frac{4}{2705}\sqrt{38607}e^{12}, \frac{6}{2705}\sqrt{79485}e^{13},$ $\frac{54}{2705}\sqrt{757}e^{14} + \frac{2}{2705}\sqrt{607871}e^{23}, \frac{4}{2705}\sqrt{53747}e^{26} + \frac{2}{541}\sqrt{31794}e^{45}$	$(\frac{79}{541}, -\frac{476}{2705}, \frac{957}{2705}, \frac{86}{2705}, -\frac{643}{2705}, -\frac{81}{2705}, \frac{1352}{2705}, \frac{481}{2705}, -\frac{557}{2705})$ $+ \frac{2}{2705}\sqrt{1739586}e^3 \otimes e_9$	{1236, 13458, 2589, 469}
941:99	$0, 0, 0, 0, 0, \frac{9}{805}\sqrt{610}e^{12}, \frac{9}{805}\sqrt{2110}e^{13}, \frac{9}{805}\sqrt{910}e^{14} + \frac{9}{805}\sqrt{1670}e^{23},$ $\frac{36}{805}\sqrt{55}e^{26} + \frac{9}{805}\sqrt{2170}e^{45}$	$(\frac{9}{161}, -\frac{18}{161}, \frac{54}{161}, \frac{27}{161}, -\frac{54}{161}, -\frac{9}{161}, \frac{9}{161}, \frac{36}{161}, -\frac{27}{161})$ $+ \frac{72}{805}\sqrt{85}e^3 \otimes e_9 + \frac{9}{805}\sqrt{1570}e^4 \otimes e_5$	{2589, 469}
941:99	$0, 0, 0, 0, 0, \frac{32}{3213}\sqrt{353}e^{12}, \frac{64}{3213}\sqrt{113}e^{13},$ $\frac{32}{3213}\sqrt{311}e^{14} + \frac{32}{3213}\sqrt{1202}e^{23}, \frac{32}{3213}\sqrt{181}e^{26} + \frac{32}{3213}\sqrt{1235}e^{45}$	$(\frac{496}{3213}, -\frac{128}{1071}, \frac{80}{1071}, -\frac{640}{3213}, \frac{368}{3213}, \frac{16}{459}, \frac{736}{3213}, -\frac{16}{357}, -\frac{16}{189})$ $+ \frac{32}{3213}\sqrt{1319}e^5 \otimes e_8 + \frac{32}{3213}\sqrt{1610}e^3 \otimes e_9$	{1246789, 1579, 23457, 3678}
941:99	$0, 0, 0, 0, 0, \frac{32}{3213}\sqrt{353}e^{12}, \frac{64}{3213}\sqrt{113}e^{13},$ $\frac{32}{3213}\sqrt{311}e^{14} + \frac{32}{3213}\sqrt{1202}e^{23}, \frac{32}{3213}\sqrt{181}e^{26} + \frac{32}{3213}\sqrt{1235}e^{45}$	$(\frac{496}{3213}, -\frac{128}{1071}, \frac{80}{1071}, -\frac{640}{3213}, \frac{368}{3213}, \frac{16}{459}, \frac{736}{3213}, -\frac{16}{357}, -\frac{16}{189})$ $- \frac{32}{3213}\sqrt{1319}e^5 \otimes e_8 + \frac{32}{3213}\sqrt{1610}e^3 \otimes e_9$	{1246789, 1579, 23457, 3678}
941:99	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{11}e^{12}, \frac{4}{51}\sqrt{11}e^{13}, \frac{2}{51}\sqrt{11}e^{14} + \frac{2}{51}\sqrt{154}e^{23},$ $\frac{2}{51}\sqrt{22}e^{26} + \frac{2}{17}\sqrt{11}e^{45}$	$(-\frac{1}{51}, \frac{3}{17}, -\frac{4}{17}, -\frac{2}{51}, \frac{19}{51}, \frac{8}{51}, -\frac{13}{51}, -\frac{1}{17}, \frac{1}{3})$ $- \frac{22}{51}\sqrt{2}e^5 \otimes e_8 + \frac{2}{51}\sqrt{253}e^2 \otimes e_7$	{12359, 15679, 268, 378}
941:99	$0, 0, 0, 0, 0, \frac{4}{51}\sqrt{11}e^{12}, \frac{4}{51}\sqrt{11}e^{13}, \frac{2}{51}\sqrt{11}e^{14} + \frac{2}{51}\sqrt{154}e^{23},$ $\frac{2}{51}\sqrt{22}e^{26} + \frac{2}{17}\sqrt{11}e^{45}$	$(-\frac{1}{51}, \frac{3}{17}, -\frac{4}{17}, -\frac{2}{51}, \frac{19}{51}, \frac{8}{51}, -\frac{13}{51}, -\frac{1}{17}, \frac{1}{3})$ $+ \frac{22}{51}\sqrt{2}e^5 \otimes e_8 + \frac{2}{51}\sqrt{253}e^2 \otimes e_7$	{12359, 15679, 268, 378}
941:99	$0, 0, 0, 0, 0, \frac{6}{2609}\sqrt{5465}e^{12}, \frac{6}{2609}\sqrt{128974}e^{13},$ $\frac{2}{2609}\sqrt{694055}e^{14} + \frac{2}{2609}\sqrt{112579}e^{23}, \frac{4}{2609}\sqrt{80882}e^{26} + \frac{4}{2609}\sqrt{322435}e^{45}$	$(\frac{13}{2609}, \frac{633}{2609}, -\frac{770}{2609}, -\frac{150}{2609}, \frac{1429}{2609}, \frac{646}{2609}, -\frac{757}{2609}, -\frac{137}{2609}, \frac{1279}{2609})$ $+ \frac{6}{2609}\sqrt{268878}e^5 \otimes e_7$	{123569, 1246789, 3678, 456}
941:99	$0, 0, 0, 0, 0, \frac{12}{689}\sqrt{1265}e^{12}, \frac{12}{689}\sqrt{1265}e^{13},$ $\frac{2}{689}\sqrt{28083}e^{14} + \frac{8}{689}\sqrt{1265}e^{23}, \frac{20}{689}\sqrt{506}e^{26} + \frac{2}{689}\sqrt{253}e^{45}$	$(-\frac{133}{689}, \frac{229}{689}, -\frac{144}{689}, \frac{218}{689}, \frac{107}{689}, \frac{96}{689}, -\frac{277}{689}, \frac{85}{689}, \frac{25}{53})$ $+ \frac{2}{689}\sqrt{144969}e^2 \otimes e_7$	{12359, 15679, 268, 378}
941:99	$0, 0, 0, 0, 0, \frac{136}{3585}\sqrt{23}e^{12}, \frac{34}{3585}\sqrt{1255}e^{13},$ $\frac{34}{3585}\sqrt{293}e^{14} + \frac{34}{3585}\sqrt{481}e^{23}, \frac{34}{3585}\sqrt{158}e^{26} + \frac{68}{3585}\sqrt{310}e^{45}$	$(-\frac{17}{239}, \frac{68}{3585}, \frac{153}{3585}, \frac{782}{3585}, -\frac{901}{3585}, -\frac{187}{3585}, \frac{68}{1195}, \frac{527}{3585}, -\frac{119}{3585})$ $+ \frac{272}{3585}\sqrt{29}e^3 \otimes e_9 + \frac{34}{3585}\sqrt{1390}e^4 \otimes e_7$	{13458, 469}
941:99	$0, 0, 0, 0, 0, \frac{1}{69}\sqrt{10}e^{12}, \frac{1}{23}\sqrt{6}e^{13}, \frac{2}{69}\sqrt{10}e^{14} + \frac{1}{69}\sqrt{26}e^{23},$ $\frac{1}{69}\sqrt{2}e^{26} + \frac{2}{69}\sqrt{15}e^{45}$	$(\frac{1}{23}, -\frac{2}{69}, 0, -\frac{5}{69}, \frac{4}{69}, \frac{1}{69}, \frac{1}{23}, -\frac{2}{69}, -\frac{1}{69})$ $+ \frac{1}{69}\sqrt{58}e^5 \otimes e_7 + \frac{1}{69}\sqrt{70}e^3 \otimes e_9$	{1246789, 3678}
941:99	$0, 0, 0, 0, 0, \frac{3}{635}\sqrt{4674}e^{12}, \frac{3}{635}\sqrt{4674}e^{13},$ $\frac{1}{635}\sqrt{440914}e^{14} + \frac{1}{635}\sqrt{110618}e^{23}, \frac{4}{635}\sqrt{8569}e^{26} + \frac{1}{635}\sqrt{138662}e^{45}$	$(-\frac{25}{127}, \frac{114}{635}, \frac{202}{635}, \frac{441}{635}, -\frac{338}{635}, -\frac{11}{635}, \frac{77}{635}, \frac{316}{635}, \frac{103}{635})$ $+ \frac{3}{635}\sqrt{91922}e^4 \otimes e_5$	{1235678, 1246, 1347, 158}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:99	$0, 0, 0, 0, 0, \frac{1}{221}\sqrt{285}e^{12}, \frac{6}{221}\sqrt{35}e^{13}, \frac{18}{221}\sqrt{3}e^{14} + \frac{1}{221}\sqrt{885}e^{23},$ $\frac{5}{221}\sqrt{30}e^{26} + \frac{1}{221}\sqrt{843}e^{45}$	$(-\frac{12}{221}, \frac{6}{221}, \frac{9}{221}, \frac{27}{221}, -\frac{27}{221}, -\frac{6}{221}, -\frac{3}{221}, \frac{15}{221}, 0)$ $+\frac{1}{221}\sqrt{1671}e^2 \otimes e_7 + \frac{5}{221}\sqrt{78}e^3 \otimes e_9$	{15679, 378}
941:99	$0, 0, 0, 0, 0, \frac{540}{1301}e^{12}, \frac{540}{1301}e^{13}, \frac{27}{1301}\sqrt{122}e^{14} + \frac{81}{1301}\sqrt{10}e^{23},$ $\frac{54}{1301}\sqrt{155}e^{26} + \frac{27}{1301}\sqrt{138}e^{45}$	$(-\frac{297}{1301}, \frac{351}{1301}, -\frac{81}{1301}, \frac{567}{1301}, -\frac{162}{1301}, \frac{54}{1301}, -\frac{378}{1301}, \frac{270}{1301}, \frac{405}{1301})$ $+\frac{27}{1301}\sqrt{790}e^4 \otimes e_5 + \frac{54}{1301}\sqrt{371}e^2 \otimes e_7$	{2468, 3478}
941:99	$0, 0, 0, 0, 0, \frac{8}{2681}\sqrt{17655}e^{12}, \frac{2}{2681}\sqrt{1034583}e^{13},$ $\frac{2}{2681}\sqrt{606155}e^{14} + \frac{22}{2681}\sqrt{2247}e^{23}, \frac{6}{2681}\sqrt{2354}e^{26} + \frac{4}{2681}\sqrt{214214}e^{45}$	$(-\frac{711}{2681}, \frac{932}{2681}, -\frac{205}{2681}, \frac{1438}{2681}, \frac{285}{2681}, \frac{221}{2681}, -\frac{916}{2681}, \frac{727}{2681}, \frac{1153}{2681})$ $+\frac{2}{2681}\sqrt{2634126}e^4 \otimes e_7$	{1349, 15789, 367, 4568}
941:100	$0, 0, 0, 0, 0, \frac{8}{2697}\sqrt{43719}e^{12}, \frac{2}{2697}\sqrt{512297}e^{13}, \frac{2}{2697}\sqrt{862049}e^{34},$ $\frac{8}{2697}\sqrt{25783}e^{14} + \frac{2}{2697}\sqrt{199538}e^{26} + \frac{2}{2697}\sqrt{487635}e^{35}$	$(\frac{416}{899}, -\frac{335}{2697}, -\frac{108}{899}, -\frac{670}{2697}, \frac{902}{2697}, \frac{913}{2697}, \frac{308}{899}, -\frac{994}{2697}, \frac{578}{2697})$ $+\frac{2}{2697}\sqrt{2499830}e^1 \otimes e_8$	{1279, 1679, 23678, 378}
941:100	$0, 0, 0, 0, 0, \frac{2}{249}\sqrt{30}e^{12}, \frac{2}{249}\sqrt{3}e^{13}, \frac{10}{249}\sqrt{15}e^{34},$ $\frac{2}{249}\sqrt{255}e^{14} + \frac{2}{249}\sqrt{309}e^{26} + \frac{2}{249}\sqrt{30}e^{35}$	$(\frac{6}{83}, -\frac{3}{83}, \frac{1}{83}, -\frac{6}{83}, -\frac{1}{83}, \frac{3}{83}, \frac{7}{83}, -\frac{5}{83}, 0)$ $+\frac{2}{249}\sqrt{195}e^3 \otimes e_5 + \frac{6}{83}\sqrt{6}e^2 \otimes e_8$	{2346, 4578}
941:100	$0, 0, 0, 0, 0, \frac{11}{753}\sqrt{422}e^{12}, \frac{11}{753}\sqrt{430}e^{13}, \frac{22}{251}\sqrt{7}e^{34},$ $\frac{11}{753}\sqrt{190}e^{14} + \frac{11}{753}\sqrt{462}e^{26} + \frac{22}{753}\sqrt{67}e^{35}$	$(\frac{11}{251}, \frac{22}{753}, -\frac{44}{251}, \frac{44}{753}, \frac{209}{753}, \frac{55}{753}, -\frac{33}{251}, -\frac{88}{753}, \frac{77}{753})$ $+\frac{11}{753}\sqrt{778}e^2 \otimes e_7 + \frac{187}{753}\sqrt{2}e^1 \otimes e_8$	{123459, 24568}
941:100	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{7426}e^{12}, \frac{4}{293}\sqrt{2054}e^{13}, \frac{2}{293}\sqrt{2054}e^{34},$ $\frac{2}{293}\sqrt{7347}e^{14} + \frac{24}{293}\sqrt{79}e^{26} + \frac{2}{293}\sqrt{3634}e^{35}$	$(-\frac{62}{293}, \frac{55}{293}, -\frac{41}{293}, \frac{110}{293}, \frac{89}{293}, -\frac{7}{293}, -\frac{103}{293}, \frac{69}{293}, \frac{48}{293})$ $+\frac{10}{293}\sqrt{790}e^2 \otimes e_7$	{123459, 146789, 24568, 347}
941:100	$0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3}e^{12}, \frac{20}{339}\sqrt{42}e^{13}, \frac{4}{339}\sqrt{1266}e^{34},$ $\frac{8}{339}\sqrt{3}e^{14} + \frac{4}{339}\sqrt{390}e^{26} + \frac{64}{339}\sqrt{3}e^{35}$	$(\frac{24}{113}, -\frac{12}{113}, \frac{16}{113}, -\frac{24}{113}, -\frac{16}{113}, \frac{12}{113}, \frac{40}{113}, -\frac{8}{113}, 0)$ $+\frac{24}{113}\sqrt{6}e^1 \otimes e_8 + \frac{68}{339}\sqrt{6}e^3 \otimes e_5$	{24568, 458}
941:100	$0, 0, 0, 0, 0, \frac{12}{47}\sqrt{3}e^{12}, \frac{12}{47}e^{13}, \frac{4}{47}\sqrt{30}e^{34},$ $\frac{8}{47}\sqrt{5}e^{14} + \frac{12}{47}\sqrt{3}e^{26} + \frac{4}{47}e^{35}$	$(\frac{8}{47}, -\frac{2}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{10}{47}, \frac{6}{47}, \frac{2}{47}, -\frac{10}{47}, \frac{4}{47})$ $+\frac{4}{47}\sqrt{46}e^2 \otimes e_8 + \frac{4}{47}\sqrt{5}e^5 \otimes e_7$	{1234579, 14689, 2346, 4578}
941:100	$0, 0, 0, 0, 0, \frac{12}{47}\sqrt{3}e^{12}, \frac{12}{47}e^{13}, \frac{4}{47}\sqrt{30}e^{34},$ $\frac{8}{47}\sqrt{5}e^{14} + \frac{12}{47}\sqrt{3}e^{26} + \frac{4}{47}e^{35}$	$(\frac{8}{47}, -\frac{2}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{10}{47}, \frac{6}{47}, \frac{2}{47}, -\frac{10}{47}, \frac{4}{47})$ $+\frac{4}{47}\sqrt{46}e^2 \otimes e_8 - \frac{4}{47}\sqrt{5}e^5 \otimes e_7$	{1234579, 14689, 2346, 4578}
941:100	$0, 0, 0, 0, 0, \frac{23}{3541}\sqrt{2830}e^{12}, \frac{23}{3541}\sqrt{478}e^{13}, \frac{46}{3541}\sqrt{890}e^{34},$ $\frac{460}{3541}\sqrt{5}e^{14} + \frac{46}{3541}\sqrt{761}e^{26} + \frac{92}{3541}\sqrt{70}e^{35}$	$(\frac{207}{3541}, \frac{69}{3541}, -\frac{598}{3541}, \frac{138}{3541}, \frac{943}{3541}, \frac{276}{3541}, -\frac{391}{3541}, -\frac{460}{3541}, \frac{345}{3541})$ $+\frac{23}{3541}\sqrt{1070}e^4 \otimes e_7 + \frac{23}{3541}\sqrt{5246}e^2 \otimes e_8$	{14689, 2346}
941:100	$0, 0, 0, 0, 0, \frac{2}{521}\sqrt{12502}e^{12}, \frac{12}{521}\sqrt{94}e^{13}, \frac{2}{521}\sqrt{13630}e^{34},$ $\frac{2}{521}\sqrt{9635}e^{14} + \frac{2}{521}\sqrt{12502}e^{26} + \frac{12}{521}\sqrt{94}e^{35}$	$(\frac{74}{521}, -\frac{11}{521}, -\frac{83}{521}, -\frac{22}{521}, \frac{135}{521}, \frac{63}{521}, -\frac{9}{521}, -\frac{105}{521}, \frac{52}{521})$ $+\frac{2}{521}\sqrt{21526}e^2 \otimes e_8$	{1234579, 14689, 2346, 4578}
941:100	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{2}e^{12}, \frac{4}{11}e^{13}, \frac{2}{11}\sqrt{2}e^{34},$ $\frac{2}{11}\sqrt{3}e^{14} + \frac{4}{11}e^{26} + \frac{2}{11}\sqrt{2}e^{35}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0)$ $+\frac{2}{11}\sqrt{6}e^2 \otimes e_7 + \frac{4}{11}e^3 \otimes e_5$	{24568, 347}
941:100	$0, 0, 0, 0, 0, \frac{12}{59}\sqrt{6}e^{12}, \frac{6}{59}\sqrt{51}e^{13}, \frac{6}{59}\sqrt{39}e^{34},$ $\frac{24}{59}\sqrt{3}e^{14} + \frac{6}{59}\sqrt{6}e^{26} + \frac{6}{59}\sqrt{39}e^{35}$	$(-\frac{16}{59}, \frac{15}{59}, -\frac{8}{59}, \frac{30}{59}, \frac{22}{59}, -\frac{1}{59}, -\frac{24}{59}, \frac{22}{59}, \frac{14}{59})$ $+\frac{30}{59}\sqrt{6}e^4 \otimes e_7$	{12346, 134, 2489, 4689}
941:100	$0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3}e^{12}, \frac{4}{339}\sqrt{1338}e^{13}, \frac{4}{339}\sqrt{1122}e^{34},$ $\frac{8}{339}\sqrt{69}e^{14} + \frac{4}{339}\sqrt{318}e^{26} + \frac{16}{339}\sqrt{57}e^{35}$	$(-\frac{24}{113}, \frac{12}{113}, \frac{16}{113}, \frac{24}{113}, -\frac{16}{113}, -\frac{12}{113}, -\frac{8}{113}, \frac{40}{113}, 0)$ $+\frac{24}{113}\sqrt{6}e^4 \otimes e_7 + \frac{4}{339}\sqrt{1806}e^3 \otimes e_5$	{12346, 134}
941:100	$0, 0, 0, 0, 0, \frac{20}{1061}\sqrt{30}e^{12}, \frac{10}{1061}\sqrt{1010}e^{13}, \frac{10}{1061}\sqrt{1070}e^{34},$ $\frac{20}{1061}\sqrt{239}e^{14} + \frac{60}{1061}\sqrt{3}e^{26} + \frac{20}{1061}\sqrt{233}e^{35}$	$(\frac{60}{1061}, \frac{30}{1061}, -\frac{200}{1061}, \frac{60}{1061}, \frac{320}{1061}, \frac{90}{1061}, -\frac{140}{1061}, -\frac{140}{1061}, \frac{120}{1061})$ $+\frac{10}{1061}\sqrt{1918}e^4 \otimes e_7 + \frac{10}{1061}\sqrt{1978}e^1 \otimes e_8$	{1279, 1679, 23678, 378}
941:100	$0, 0, 0, 0, 0, \frac{20}{1061}\sqrt{30}e^{12}, \frac{10}{1061}\sqrt{1010}e^{13}, \frac{10}{1061}\sqrt{1070}e^{34},$ $\frac{20}{1061}\sqrt{239}e^{14} + \frac{60}{1061}\sqrt{3}e^{26} + \frac{20}{1061}\sqrt{233}e^{35}$	$(\frac{60}{1061}, \frac{30}{1061}, -\frac{200}{1061}, \frac{60}{1061}, \frac{320}{1061}, \frac{90}{1061}, -\frac{140}{1061}, -\frac{140}{1061}, \frac{120}{1061})$ $-\frac{10}{1061}\sqrt{1918}e^4 \otimes e_7 + \frac{10}{1061}\sqrt{1978}e^1 \otimes e_8$	{1279, 1679, 23678, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:101	$0, 0, 0, 0, 0, \frac{106}{4645} \sqrt{298}e^{12}, \frac{53}{4645} \sqrt{1326}e^{13}, \frac{53}{4645} \sqrt{506}e^{34},$ $\frac{159}{4645} \sqrt{86}e^{16} + \frac{106}{4645} \sqrt{137}e^{23} + \frac{106}{4645} \sqrt{389}e^{45}$	$(-\frac{318}{4645}, \frac{371}{929}, -\frac{636}{4645}, -\frac{477}{4645}, \frac{1696}{4645}, \frac{1537}{4645}, -\frac{954}{4645}, -\frac{1113}{4645}, \frac{1219}{4645})$ $+\frac{53}{4645} \sqrt{4342}e^2 \otimes e_7 + \frac{848}{4645} \sqrt{15}e^5 \otimes e_8$	{12345, 1238}
941:101	$0, 0, 0, 0, 0, \frac{12}{2213} \sqrt{12557}e^{12}, \frac{2}{2213} \sqrt{517002}e^{13}, \frac{30}{2213} \sqrt{6062}e^{34},$ $\frac{2}{2213} \sqrt{574158}e^{16} + \frac{2}{2213} \sqrt{333843}e^{23} + \frac{6}{2213} \sqrt{40702}e^{45}$	$(-\frac{3}{2213}, \frac{298}{2213}, -\frac{6}{2213}, \frac{1445}{2213}, -\frac{1153}{2213}, \frac{295}{2213}, -\frac{9}{2213}, \frac{1439}{2213}, \frac{292}{2213})$ $+\frac{24}{2213} \sqrt{16454}e^4 \otimes e_5$	{13467, 135678, 34, 358}
941:101	$0, 0, 0, 0, 0, \frac{2}{365} \sqrt{9178}e^{12}, \frac{1}{365} \sqrt{78366}e^{13}, \frac{1}{365} \sqrt{41654}e^{34},$ $\frac{1}{365} \sqrt{41654}e^{16} + \frac{14}{365} \sqrt{353}e^{23} + \frac{2}{365} \sqrt{4589}e^{45}$	$(-\frac{46}{365}, \frac{43}{73}, -\frac{92}{365}, \frac{91}{365}, \frac{32}{365}, \frac{169}{365}, -\frac{138}{365}, -\frac{1}{365}, \frac{123}{365})$ $+\frac{1}{365} \sqrt{216742}e^2 \otimes e_7$	{123, 123458, 34789, 3579}
941:101	$0, 0, 0, 0, 0, \frac{2}{47} \sqrt{115}e^{12}, \frac{2}{47} \sqrt{15}e^{13}, \frac{2}{47} \sqrt{130}e^{34},$ $\frac{2}{47} \sqrt{130}e^{16} + \frac{2}{47} \sqrt{95}e^{23} + \frac{6}{47} \sqrt{5}e^{45}$	$(\frac{1}{47}, \frac{2}{47}, \frac{2}{47}, -\frac{11}{47}, \frac{15}{47}, \frac{3}{47}, \frac{3}{47}, -\frac{9}{47}, \frac{4}{47})$ $+\frac{2}{47} \sqrt{205}e^1 \otimes e_8$	{1234579, 13467, 23689, 358}
941:101	$0, 0, 0, 0, 0, \frac{2}{787} \sqrt{307}e^{12}, \frac{2}{787} \sqrt{87}e^{13}, \frac{2}{787} \sqrt{430}e^{34},$ $\frac{2}{787} \sqrt{358}e^{16} + \frac{2}{787} \sqrt{263}e^{23} + \frac{6}{787} \sqrt{17}e^{45}$	$(-\frac{7}{787}, \frac{22}{787}, -\frac{14}{787}, \frac{5}{787}, \frac{3}{787}, \frac{15}{787}, -\frac{21}{787}, -\frac{9}{787}, \frac{8}{787})$ $+\frac{12}{787} \sqrt{6}e^4 \otimes e_5 + \frac{2}{787} \sqrt{505}e^1 \otimes e_8$	{13467, 358}
941:101	$0, 0, 0, 0, 0, \frac{5}{11} \sqrt{6}e^{12}, \frac{8}{11} \sqrt{5}e^{13}, \frac{4}{11} \sqrt{15}e^{34},$ $\frac{1}{11} \sqrt{170}e^{16} + \frac{4}{11} \sqrt{5}e^{23} + \frac{3}{11} \sqrt{30}e^{45}$	$(0, \frac{2}{11}, 0, -\frac{3}{11}, \frac{5}{11}, \frac{2}{11}, 0, -\frac{3}{11}, \frac{2}{11})$ $+\frac{1}{11} \sqrt{210}e^2 \otimes e_8 + \frac{8}{11} \sqrt{5}e^5 \otimes e_7$	{234789, 367}
941:101	$0, 0, 0, 0, 0, \frac{21}{221} \sqrt{58}e^{12}, \frac{28}{221} \sqrt{30}e^{13}, \frac{28}{221} \sqrt{39}e^{34},$ $\frac{7}{221} \sqrt{246}e^{16} + \frac{28}{221} \sqrt{15}e^{23} + \frac{21}{221} \sqrt{34}e^{45}$	$(-\frac{16}{221}, \frac{94}{221}, -\frac{32}{221}, -\frac{21}{221}, \frac{83}{221}, \frac{6}{17}, -\frac{48}{221}, -\frac{53}{221}, \frac{62}{221})$ $+\frac{63}{221} \sqrt{14}e^2 \otimes e_8$	{129, 1468, 2679, 478}
941:101	$0, 0, 0, 0, 0, \frac{10}{219} \sqrt{5}e^{12}, \frac{50}{219} \sqrt{2}e^{13}, \frac{10}{73} \sqrt{5}e^{34},$ $\frac{10}{219} \sqrt{22}e^{16} + \frac{10}{219} \sqrt{47}e^{23} + \frac{30}{73} e^{45}$	$(-\frac{5}{73}, \frac{20}{73}, -\frac{10}{73}, \frac{5}{219}, \frac{25}{219}, \frac{15}{73}, -\frac{15}{73}, -\frac{25}{219}, \frac{10}{73})$ $+\frac{10}{219} \sqrt{113}e^4 \otimes e_7 + \frac{20}{219} \sqrt{22}e^5 \otimes e_8$	{15679, 489}
941:101	$0, 0, 0, 0, 0, \frac{110}{4597} \sqrt{319}e^{12}, \frac{55}{4597} \sqrt{858}e^{13}, \frac{55}{4597} \sqrt{1006}e^{34},$ $\frac{55}{4597} \sqrt{170}e^{16} + \frac{770}{4597} \sqrt{5}e^{23} + \frac{110}{4597} \sqrt{61}e^{45}$	$(-\frac{440}{4597}, \frac{1705}{4597}, \frac{880}{4597}, \frac{1925}{4597}, \frac{1100}{4597}, \frac{1265}{4597}, \frac{1320}{4597}, \frac{1045}{4597}, \frac{825}{4597})$ $+\frac{2310}{4597} \sqrt{2}e^4 \otimes e_5 + \frac{55}{4597} \sqrt{4582}e^2 \otimes e_7$	{1234, 12358}
941:101	$0, 0, 0, 0, 0, \frac{2}{29} \sqrt{51}e^{12}, \frac{2}{29} \sqrt{15}e^{13}, \frac{4}{29} \sqrt{15}e^{34},$ $\frac{4}{29} \sqrt{15}e^{16} + \frac{2}{29} \sqrt{39}e^{23} + \frac{6}{29} \sqrt{3}e^{45}$	$(\frac{1}{29}, 0, \frac{2}{29}, -\frac{7}{29}, \frac{9}{29}, \frac{1}{29}, \frac{3}{29}, -\frac{5}{29}, \frac{2}{29})$ $+\frac{2}{29} \sqrt{87}e^1 \otimes e_8 + \frac{4}{29} \sqrt{3}e^5 \otimes e_7$	{1234579, 23689}
941:101	$0, 0, 0, 0, 0, \frac{82}{6813} \sqrt{1002}e^{12}, \frac{41}{6813} \sqrt{4326}e^{13}, \frac{41}{2271} \sqrt{742}e^{34},$ $\frac{164}{6813} \sqrt{157}e^{16} + \frac{82}{6813} \sqrt{227}e^{23} + \frac{41}{6813} \sqrt{2990}e^{45}$	$(-\frac{533}{6813}, \frac{205}{757}, -\frac{1066}{6813}, \frac{410}{2271}, -\frac{451}{6813}, \frac{1312}{6813}, -\frac{533}{2271}, \frac{164}{6813}, \frac{779}{6813})$ $+\frac{41}{6813} \sqrt{7478}e^2 \otimes e_8 + \frac{82}{6813} \sqrt{1255}e^4 \otimes e_5$	{1468, 478}
941:101	$0, 0, 0, 0, 0, \frac{2}{667} \sqrt{18870}e^{12}, \frac{4}{667} \sqrt{20165}e^{13}, \frac{4}{667} \sqrt{10915}e^{34},$ $\frac{4}{667} \sqrt{10915}e^{16} + \frac{2}{667} \sqrt{12395}e^{23} + \frac{2}{667} \sqrt{74370}e^{45}$	$(-\frac{35}{667}, \frac{8}{23}, -\frac{70}{667}, -\frac{103}{667}, \frac{265}{667}, \frac{197}{667}, -\frac{105}{667}, -\frac{173}{667}, \frac{162}{667})$ $+\frac{4}{667} \sqrt{27935}e^5 \otimes e_7$	{123569, 13458, 234789, 367}
941:101	$0, 0, 0, 0, 0, \frac{6}{2261} \sqrt{40494}e^{12}, \frac{4}{2261} \sqrt{30966}e^{13}, \frac{24}{2261} \sqrt{5955}e^{34},$ $\frac{20}{2261} \sqrt{1191}e^{16} + \frac{2}{2261} \sqrt{491883}e^{23} + \frac{6}{2261} \sqrt{81782}e^{45}$	$(\frac{99}{2261}, \frac{508}{2261}, \frac{198}{2261}, -\frac{937}{2261}, \frac{1643}{2261}, \frac{607}{2261}, \frac{297}{2261}, -\frac{739}{2261}, \frac{706}{2261})$ $+\frac{12}{2261} \sqrt{61535}e^5 \otimes e_8$	{134567, 13678, 345, 38}
941:101	$0, 0, 0, 0, 0, \frac{6}{137} \sqrt{17}e^{12}, \frac{2}{137} \sqrt{2958}e^{13}, \frac{34}{137} \sqrt{3}e^{34},$ $\frac{2}{137} \sqrt{1122}e^{16} + \frac{2}{137} \sqrt{1479}e^{23} + \frac{6}{137} \sqrt{323}e^{45}$	$(-\frac{13}{137}, \frac{52}{137}, -\frac{26}{137}, \frac{63}{137}, -\frac{37}{137}, \frac{39}{137}, -\frac{39}{137}, \frac{37}{137}, \frac{26}{137})$ $+\frac{6}{137} \sqrt{663}e^4 \otimes e_7$	{123469, 1345, 235789, 3678}
941:101	$0, 0, 0, 0, 0, \frac{6}{137} \sqrt{78}e^{12}, \frac{2}{137} \sqrt{6}e^{13}, \frac{4}{137} \sqrt{174}e^{34},$ $\frac{4}{137} \sqrt{174}e^{16} + \frac{12}{137} \sqrt{13}e^{23} + \frac{2}{137} \sqrt{246}e^{45}$	$(-\frac{2}{137}, \frac{18}{137}, -\frac{4}{137}, -\frac{22}{137}, \frac{36}{137}, \frac{16}{137}, -\frac{6}{137}, -\frac{26}{137}, \frac{14}{137})$ $+\frac{2}{137} \sqrt{1194}e^1 \otimes e_8 + \frac{4}{137} \sqrt{66}e^2 \otimes e_7$	{123459, 3578}
941:102	$0, 0, 0, 0, 0, \frac{4}{577} \sqrt{3287}e^{12}, \frac{4}{577} \sqrt{1387}e^{13}, \frac{6}{577} \sqrt{1558}e^{34},$ $\frac{6}{577} \sqrt{1558}e^{16} + \frac{6}{577} \sqrt{1330}e^{24} + \frac{2}{577} \sqrt{2622}e^{35}$	$(\frac{8}{577}, \frac{39}{577}, -\frac{84}{577}, \frac{16}{577}, \frac{139}{577}, \frac{47}{577}, -\frac{76}{577}, -\frac{68}{577}, \frac{55}{577})$ $+\frac{26}{577} \sqrt{114}e^1 \otimes e_8$	{1234579, 13467, 246789, 4578}
941:102	$0, 0, 0, 0, 0, \frac{6}{7} \sqrt{21}e^{12}, \frac{1}{49} \sqrt{1218}e^{13}, \frac{1}{49} \sqrt{42}e^{34},$ $\frac{2}{7} \sqrt{3}e^{16} + \frac{1}{49} \sqrt{1218}e^{24} + \frac{6}{49} \sqrt{14}e^{35}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, -\frac{1}{7}, 0, \frac{1}{7})$ $+\frac{1}{49} \sqrt{210}e^5 \otimes e_8 + \frac{4}{49} \sqrt{105}e^4 \otimes e_7$	{157, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:102	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{253}e^{12}, \frac{2}{101}\sqrt{1606}e^{13}, \frac{4}{101}\sqrt{22}e^{34},$ $\frac{2}{101}\sqrt{770}e^{16} + \frac{2}{101}\sqrt{1606}e^{24} + \frac{22}{101}\sqrt{6}e^{35}$	$(\frac{16}{101}, -\frac{19}{101}, -\frac{28}{101}, \frac{32}{101}, \frac{41}{101}, -\frac{3}{101}, -\frac{12}{101}, \frac{4}{101}, \frac{13}{101})$ $+ \frac{2}{101}\sqrt{2046}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
941:102	$0, 0, 0, 0, 0, \frac{43}{4405}\sqrt{1670}e^{12}, \frac{43}{4405}\sqrt{14}e^{13}, \frac{86}{4405}\sqrt{791}e^{34},$ $\frac{43}{4405}\sqrt{538}e^{16} + \frac{86}{4405}\sqrt{87}e^{24} + \frac{258}{4405}\sqrt{29}e^{35}$	$(-\frac{129}{881}, \frac{1677}{4405}, \frac{1118}{4405}, -\frac{258}{881}, -\frac{731}{4405}, \frac{1032}{4405}, \frac{473}{4405}, -\frac{172}{4405}, \frac{387}{4405})$ $+ \frac{129}{4405}\sqrt{382}e^3 \otimes e_5 + \frac{86}{4405}\sqrt{1110}e^2 \otimes e_8$	{1368, 378}
941:102	$0, 0, 0, 0, 0, \frac{7}{85}\sqrt{6}e^{12}, \frac{7}{85}\sqrt{82}e^{13}, \frac{42}{85}e^{34},$ $\frac{14}{85}\sqrt{11}e^{16} + \frac{7}{85}\sqrt{82}e^{24} + \frac{7}{85}\sqrt{14}e^{35}$	$(-\frac{7}{85}, \frac{7}{17}, -\frac{7}{85}, -\frac{14}{85}, \frac{28}{85}, \frac{28}{85}, -\frac{14}{85}, -\frac{21}{85}, \frac{21}{85})$ $+ \frac{14}{85}\sqrt{6}e^5 \otimes e_8 + \frac{56}{85}\sqrt{2}e^2 \otimes e_7$	{123569, 289}
941:102	$0, 0, 0, 0, 0, \frac{13}{4741}\sqrt{3466}e^{12}, \frac{13}{4741}\sqrt{5918}e^{13}, \frac{26}{4741}\sqrt{131}e^{34},$ $\frac{13}{4741}\sqrt{2534}e^{16} + \frac{78}{4741}\sqrt{133}e^{24} + \frac{26}{4741}\sqrt{699}e^{35}$	$(\frac{195}{4741}, -\frac{507}{4741}, \frac{26}{4741}, \frac{390}{4741}, -\frac{13}{431}, -\frac{312}{4741}, \frac{221}{4741}, \frac{416}{4741}, -\frac{117}{4741})$ $+ \frac{13}{4741}\sqrt{3390}e^3 \otimes e_5 + \frac{26}{4741}\sqrt{1446}e^4 \otimes e_7$	{157, 3678}
941:102	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{11}e^{12}, \frac{2}{31}\sqrt{22}e^{13}, \frac{4}{31}\sqrt{11}e^{34},$ $\frac{2}{31}\sqrt{46}e^{16} + \frac{2}{31}\sqrt{42}e^{24} + \frac{4}{31}\sqrt{6}e^{35}$	$(0, \frac{3}{31}, -\frac{4}{31}, 0, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{3}{31})$ $- \frac{2}{31}\sqrt{6}e^4 \otimes e_7 + \frac{4}{31}\sqrt{15}e^1 \otimes e_8$	{1234579, 13467, 246789, 4578}
941:102	$0, 0, 0, 0, 0, \frac{4}{31}\sqrt{11}e^{12}, \frac{2}{31}\sqrt{22}e^{13}, \frac{4}{31}\sqrt{11}e^{34},$ $\frac{2}{31}\sqrt{46}e^{16} + \frac{2}{31}\sqrt{42}e^{24} + \frac{4}{31}\sqrt{6}e^{35}$	$(0, \frac{3}{31}, -\frac{4}{31}, 0, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{3}{31})$ $+ \frac{2}{31}\sqrt{6}e^4 \otimes e_7 + \frac{4}{31}\sqrt{15}e^1 \otimes e_8$	{1234579, 13467, 246789, 4578}
941:102	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{102}e^{12}, \frac{1}{29}\sqrt{646}e^{13}, \frac{2}{29}\sqrt{85}e^{34},$ $\frac{2}{29}\sqrt{85}e^{16} + \frac{1}{29}\sqrt{646}e^{24} + \frac{1}{29}\sqrt{170}e^{35}$	$(-\frac{3}{29}, \frac{13}{29}, -\frac{1}{29}, -\frac{6}{29}, \frac{8}{29}, \frac{10}{29}, -\frac{4}{29}, -\frac{7}{29}, \frac{7}{29})$ $+ \frac{2}{29}\sqrt{221}e^2 \otimes e_7$	{123569, 1578, 289, 367}
941:102	$0, 0, 0, 0, 0, \frac{2}{529}\sqrt{24130}e^{12}, \frac{508}{529}e^{13}, \frac{14}{529}\sqrt{762}e^{34},$ $\frac{14}{529}\sqrt{762}e^{16} + \frac{2}{529}\sqrt{25654}e^{24} + \frac{4}{529}\sqrt{9906}e^{35}$	$(\frac{58}{529}, \frac{64}{529}, -\frac{193}{529}, \frac{116}{529}, \frac{373}{529}, \frac{122}{529}, -\frac{135}{529}, -\frac{77}{529}, \frac{180}{529})$ $+ \frac{6}{529}\sqrt{12954}e^5 \otimes e_7$	{135, 178, 2379, 2589}
941:102	$0, 0, 0, 0, 0, \frac{7}{3901}\sqrt{3326}e^{12}, \frac{7}{3901}\sqrt{802}e^{13}, \frac{14}{3901}\sqrt{1073}e^{34},$ $\frac{7}{3901}\sqrt{3694}e^{16} + \frac{84}{3901}\sqrt{22}e^{24} + \frac{28}{3901}\sqrt{69}e^{35}$	$(-\frac{105}{3901}, \frac{273}{3901}, \frac{56}{3901}, -\frac{210}{3901}, \frac{7}{3901}, \frac{168}{3901}, -\frac{49}{3901}, -\frac{154}{3901}, \frac{63}{3901})$ $+ \frac{14}{3901}\sqrt{1326}e^1 \otimes e_8 + \frac{7}{3901}\sqrt{1794}e^3 \otimes e_5$	{13467, 4578}
941:102	$0, 0, 0, 0, 0, \frac{25}{593}\sqrt{34}e^{12}, \frac{25}{593}\sqrt{86}e^{13}, \frac{100}{593}\sqrt{2}e^{34},$ $\frac{20}{593}\sqrt{65}e^{16} + \frac{10}{593}\sqrt{705}e^{24} + \frac{60}{593}\sqrt{10}e^{35}$	$(\frac{15}{593}, \frac{45}{593}, -\frac{110}{593}, \frac{30}{593}, \frac{185}{593}, \frac{60}{593}, -\frac{95}{593}, -\frac{80}{593}, \frac{75}{593})$ $+ \frac{15}{593}\sqrt{390}e^4 \otimes e_7 + \frac{5}{593}\sqrt{2010}e^2 \otimes e_8$	{12679, 3678}
941:102	$0, 0, 0, 0, 0, \frac{74}{2221}\sqrt{170}e^{12}, \frac{74}{2221}\sqrt{67}e^{13}, \frac{185}{2221}\sqrt{22}e^{34},$ $\frac{74}{2221}\sqrt{46}e^{16} + \frac{74}{2221}\sqrt{109}e^{24} + \frac{37}{2221}\sqrt{390}e^{35}$	$(-\frac{111}{2221}, \frac{814}{2221}, -\frac{333}{2221}, -\frac{222}{2221}, \frac{925}{2221}, \frac{703}{2221}, -\frac{444}{2221}, -\frac{555}{2221}, \frac{592}{2221})$ $+ \frac{37}{2221}\sqrt{1698}e^5 \otimes e_7 + \frac{37}{2221}\sqrt{2202}e^2 \otimes e_8$	{12345, 4589}
941:102	$0, 0, 0, 0, 0, \frac{24}{277}\sqrt{3}e^{12}, \frac{1}{277}\sqrt{1110}e^{13}, \frac{8}{277}\sqrt{30}e^{34},$ $\frac{8}{277}\sqrt{30}e^{16} + \frac{1}{277}\sqrt{1578}e^{24} + \frac{24}{277}e^{35}$	$(-\frac{7}{277}, \frac{18}{277}, \frac{4}{277}, -\frac{14}{277}, 0, \frac{11}{277}, -\frac{3}{277}, -\frac{10}{277}, \frac{4}{277})$ $+ \frac{1}{277}\sqrt{2238}e^1 \otimes e_8 + \frac{1}{277}\sqrt{834}e^5 \otimes e_7$	{1234579, 4578}
941:102	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{2714}e^{12}, \frac{1}{71}\sqrt{3422}e^{13}, \frac{2}{71}\sqrt{1003}e^{34},$ $\frac{2}{71}\sqrt{413}e^{16} + \frac{1}{71}\sqrt{3422}e^{24} + \frac{3}{71}\sqrt{354}e^{35}$	$(\frac{3}{71}, \frac{17}{71}, -\frac{21}{71}, \frac{6}{71}, \frac{44}{71}, \frac{20}{71}, -\frac{18}{71}, -\frac{15}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770}e^5 \otimes e_8$	{134567, 1468, 345, 478}
941:102	$0, 0, 0, 0, 0, \frac{11}{445}\sqrt{110}e^{12}, \frac{11}{445}\sqrt{506}e^{13}, \frac{22}{445}\sqrt{31}e^{34},$ $\frac{22}{445}\sqrt{57}e^{16} + \frac{11}{445}\sqrt{402}e^{24} + \frac{11}{445}\sqrt{166}e^{35}$	$(-\frac{11}{89}, \frac{143}{445}, \frac{77}{445}, -\frac{22}{89}, -\frac{44}{445}, \frac{88}{445}, \frac{22}{445}, -\frac{33}{445}, \frac{33}{445})$ $+ \frac{22}{445}\sqrt{130}e^2 \otimes e_7 + \frac{11}{445}\sqrt{78}e^3 \otimes e_5$	{1578, 367}
941:102	$0, 0, 0, 0, 0, \frac{22}{587}\sqrt{470}e^{12}, \frac{2}{587}\sqrt{35485}e^{13}, \frac{2}{587}\sqrt{59690}e^{34},$ $\frac{2}{587}\sqrt{21385}e^{16} + \frac{4}{587}\sqrt{705}e^{24} + \frac{12}{587}\sqrt{235}e^{35}$	$(-\frac{84}{587}, \frac{333}{587}, \frac{31}{587}, -\frac{168}{587}, \frac{134}{587}, \frac{249}{587}, -\frac{53}{587}, -\frac{137}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^2 \otimes e_8$	{129, 13678, 2679, 38}
941:102	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{110}e^{12}, \frac{8}{25}e^{13}, \frac{2}{25}\sqrt{31}e^{34},$ $\frac{2}{25}\sqrt{31}e^{16} + \frac{2}{25}\sqrt{29}e^{24} + \frac{4}{25}e^{35}$	$(\frac{1}{25}, 0, -\frac{4}{25}, \frac{2}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{2}{25})$ $+ \frac{1}{25}\sqrt{26}e^2 \otimes e_7 + \frac{2}{25}\sqrt{39}e^1 \otimes e_8$	{1234579, 246789}
941:102	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{190}e^{12}, \frac{1}{35}\sqrt{874}e^{13}, \frac{6}{35}\sqrt{19}e^{34},$ $\frac{1}{35}\sqrt{57}e^{16} + \frac{1}{35}\sqrt{133}e^{24} + \frac{1}{35}\sqrt{399}e^{35}$	$(-\frac{1}{14}, \frac{13}{70}, \frac{79}{140}, -\frac{1}{7}, -\frac{73}{140}, \frac{4}{35}, \frac{69}{140}, \frac{59}{140}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^3 \otimes e_5$	{138, 157, 3678, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:103	$0, 0, 0, 0, 0, \frac{1}{1425}\sqrt{2270e^{12}}, \frac{1}{475}\sqrt{570e^{34}}, \frac{2}{285}\sqrt{31e^{13}} + \frac{4}{1425}\sqrt{265e^{24}},$ $\frac{1}{1425}\sqrt{1790e^{15}} + \frac{1}{475}\sqrt{390e^{26}}$	$(\frac{2}{95}, -\frac{1}{57}, -\frac{1}{95}, \frac{8}{285}, -\frac{2}{57}, \frac{1}{285}, \frac{1}{57}, \frac{1}{95}, -\frac{4}{285})$ $+ \frac{1}{1425}\sqrt{6170e^1} \otimes e_7 + \frac{1}{1425}\sqrt{6790e^3} \otimes e_9$	{1689, 378}
941:103	$0, 0, 0, 0, 0, \frac{4}{277}\sqrt{3486e^{12}}, \frac{6}{277}\sqrt{83e^{34}}, \frac{1}{277}\sqrt{54282e^{13}} + \frac{1}{277}\sqrt{42330e^{24}},$ $\frac{83}{277}\sqrt{6e^{15}} + \frac{2}{277}\sqrt{8715e^{26}}$	$(\frac{139}{277}, -\frac{55}{277}, -\frac{73}{277}, \frac{121}{277}, -\frac{110}{277}, \frac{84}{277}, \frac{48}{277}, \frac{66}{277}, \frac{29}{277})$ $+ \frac{1}{277}\sqrt{117030e^1} \otimes e_5$	{234568, 256, 3578, 457}
941:103	$0, 0, 0, 0, 0, \frac{20}{643}\sqrt{41e^{12}}, \frac{5}{643}\sqrt{966e^{34}}, \frac{10}{643}\sqrt{26e^{13}} + \frac{5}{643}\sqrt{430e^{24}},$ $\frac{5}{643}\sqrt{154e^{15}} + \frac{10}{643}\sqrt{263e^{26}}$	$(-\frac{85}{643}, \frac{105}{1286}, \frac{70}{643}, -\frac{135}{1286}, \frac{105}{643}, -\frac{65}{1286}, \frac{5}{1286}, -\frac{15}{643}, \frac{20}{643})$ $+ \frac{10}{643}\sqrt{271e^3} \otimes e_9 + \frac{5}{643}\sqrt{1222e^2} \otimes e_7$	{234568, 3578}
941:103	$0, 0, 0, 0, 0, \frac{155}{3209}\sqrt{26e^{12}}, \frac{155}{3209}\sqrt{6e^{34}},$ $\frac{93}{3209}\sqrt{110e^{13}} + \frac{186}{3209}\sqrt{43e^{24}}, \frac{620}{3209}\sqrt{6e^{15}} + \frac{31}{3209}\sqrt{1122e^{26}}$	$(\frac{124}{3209}, \frac{403}{3209}, -\frac{279}{3209}, -\frac{558}{3209}, \frac{806}{3209}, \frac{527}{3209}, -\frac{837}{3209}, -\frac{155}{3209}, \frac{930}{3209})$ $+ \frac{217}{3209}\sqrt{70e^5} \otimes e_8 + \frac{31}{3209}\sqrt{2406e^1} \otimes e_7$	{12689, 2378}
941:103	$0, 0, 0, 0, 0, \frac{4}{2369}\sqrt{154470e^{12}}, \frac{8}{2369}\sqrt{44715e^{34}},$ $\frac{16}{2369}\sqrt{4065e^{13}} + \frac{6}{2369}\sqrt{53387e^{24}}, \frac{12}{2369}\sqrt{8130e^{15}} + \frac{2}{2369}\sqrt{169917e^{26}}$	$(\frac{929}{2369}, \frac{18}{2369}, -\frac{804}{2369}, \frac{107}{2369}, \frac{36}{2369}, \frac{947}{2369}, -\frac{697}{2369}, \frac{125}{2369}, \frac{965}{2369})$ $+ \frac{2}{2369}\sqrt{1604049e^1} \otimes e_7$	{13469, 1689, 378, 47}
941:103	$0, 0, 0, 0, 0, \frac{62}{5885}\sqrt{73e^{12}}, \frac{62}{5885}\sqrt{1087e^{34}},$ $\frac{31}{5885}\sqrt{498e^{13}} + \frac{62}{5885}\sqrt{443e^{24}}, \frac{31}{5885}\sqrt{3238e^{15}} + \frac{31}{1177}\sqrt{74e^{26}}$	$(-\frac{1178}{5885}, \frac{651}{5885}, \frac{217}{1177}, -\frac{744}{5885}, \frac{1302}{5885}, -\frac{527}{5885}, \frac{31}{5885}, -\frac{93}{5885}, \frac{124}{5885})$ $+ \frac{31}{5885}\sqrt{4754e^5} \otimes e_7 + \frac{62}{5885}\sqrt{1482e^3} \otimes e_9$	{1345, 259}
941:103	$0, 0, 0, 0, 0, \frac{80}{851}\sqrt{3e^{12}}, \frac{20}{851}\sqrt{219e^{34}}, \frac{10}{851}\sqrt{246e^{13}} + \frac{30}{851}\sqrt{19e^{24}},$ $\frac{90}{851}\sqrt{10e^{15}} + \frac{10}{851}\sqrt{177e^{26}}$	$(\frac{5}{23}, -\frac{90}{851}, -\frac{120}{851}, \frac{155}{851}, -\frac{180}{851}, \frac{95}{851}, \frac{35}{851}, \frac{65}{851}, \frac{5}{851})$ $+ \frac{10}{851}\sqrt{1041e^1} \otimes e_7 + \frac{30}{851}\sqrt{138e^4} \otimes e_9$	{169, 478}
941:103	$0, 0, 0, 0, 0, \frac{4}{2047}\sqrt{108794e^{12}}, \frac{12}{2047}\sqrt{6783e^{34}},$ $\frac{4}{2047}\sqrt{45087e^{13}} + \frac{4}{2047}\sqrt{163590e^{24}}, \frac{4}{2047}\sqrt{143241e^{15}} + \frac{4}{2047}\sqrt{93765e^{26}}$	$(-\frac{406}{2047}, \frac{485}{2047}, \frac{312}{2047}, -\frac{579}{2047}, \frac{970}{2047}, \frac{79}{2047}, -\frac{3}{23}, -\frac{94}{2047}, \frac{564}{2047})$ $+ \frac{28}{2047}\sqrt{5035e^5} \otimes e_8$	{126789, 1489, 238, 34678}
941:103	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{6e^{12}}, \frac{2}{25}\sqrt{15e^{34}}, \frac{1}{25}\sqrt{102e^{13}} + \frac{4}{25}\sqrt{6e^{24}},$ $\frac{2}{25}\sqrt{6e^{15}} + \frac{1}{25}\sqrt{102e^{26}}$	$(\frac{1}{25}, -\frac{1}{10}, \frac{2}{25}, \frac{11}{50}, -\frac{1}{5}, -\frac{3}{50}, \frac{3}{10}, \frac{3}{25}, -\frac{4}{25})$ $+ \frac{1}{25}\sqrt{114e^1} \otimes e_5 + \frac{2}{25}\sqrt{39e^3} \otimes e_9$	{234568, 3578}
941:103	$0, 0, 0, 0, 0, \frac{8}{73}\sqrt{10e^{12}}, \frac{16}{73}\sqrt{3e^{34}}, \frac{8}{73}\sqrt{3e^{13}} + \frac{8}{73}\sqrt{15e^{24}},$ $\frac{8}{73}\sqrt{6e^{15}} + \frac{24}{73}e^{26}$	$(-\frac{4}{73}, \frac{14}{73}, 0, -\frac{18}{73}, \frac{28}{73}, \frac{10}{73}, -\frac{18}{73}, -\frac{4}{73}, \frac{24}{73})$ $+ \frac{40}{73}e^5 \otimes e_8 + \frac{8}{73}\sqrt{39e^2} \otimes e_7$	{268, 478}
941:103	$0, 0, 0, 0, 0, \frac{3}{383}\sqrt{2090e^{12}}, \frac{4}{383}\sqrt{3135e^{34}},$ $\frac{1}{383}\sqrt{43890e^{13}} + \frac{16}{383}\sqrt{209e^{24}}, \frac{4}{383}\sqrt{4389e^{15}} + \frac{1}{383}\sqrt{12122e^{26}}$	$(\frac{38}{383}, -\frac{56}{383}, \frac{41}{383}, \frac{135}{383}, -\frac{112}{383}, -\frac{18}{383}, \frac{176}{383}, \frac{79}{383}, -\frac{74}{383})$ $+ \frac{1}{383}\sqrt{136686e^4} \otimes e_9$	{124567, 13458, 2589, 35679}
941:103	$0, 0, 0, 0, 0, \frac{15}{5629}\sqrt{222e^{12}}, \frac{20}{5629}\sqrt{255e^{34}},$ $\frac{40}{5629}\sqrt{42e^{13}} + \frac{5}{5629}\sqrt{1706e^{24}}, \frac{5}{5629}\sqrt{1302e^{15}} + \frac{25}{5629}\sqrt{110e^{26}}$	$(\frac{205}{5629}, -\frac{70}{5629}, -\frac{185}{5629}, \frac{90}{5629}, -\frac{140}{5629}, \frac{135}{5629}, -\frac{95}{5629}, \frac{20}{5629}, \frac{5}{433})$ $+ \frac{20}{5629}\sqrt{309e^4} \otimes e_9 + \frac{210}{5629}\sqrt{3e^2} \otimes e_7$	{2346, 478}
941:103	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2e^{12}}, \frac{1}{10}\sqrt{10e^{34}}, \frac{1}{10}\sqrt{2e^{13}} + \frac{1}{10}\sqrt{6e^{24}},$ $\frac{1}{10}\sqrt{10e^{15}} + \frac{1}{10}\sqrt{14e^{26}}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{10}\sqrt{14e^1} \otimes e_5 + \frac{1}{10}\sqrt{22e^2} \otimes e_7$	{234568, 256, 3578, 457}
941:103	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2e^{12}}, \frac{1}{10}\sqrt{10e^{34}}, \frac{1}{10}\sqrt{2e^{13}} + \frac{1}{10}\sqrt{6e^{24}},$ $\frac{1}{10}\sqrt{10e^{15}} + \frac{1}{10}\sqrt{14e^{26}}$	$(\frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5}, -\frac{1}{5}, 0, \frac{1}{5})$ $+ \frac{1}{10}\sqrt{14e^1} \otimes e_5 - \frac{1}{10}\sqrt{22e^2} \otimes e_7$	{234568, 256, 3578, 457}
941:103	$0, 0, 0, 0, 0, \frac{16}{2351}\sqrt{609e^{12}}, \frac{8}{2351}\sqrt{33474e^{34}},$ $\frac{80}{2351}\sqrt{273e^{13}} + \frac{48}{2351}\sqrt{805e^{24}}, \frac{16}{2351}\sqrt{2478e^{15}} + \frac{8}{2351}\sqrt{39270e^{26}}$	$(-\frac{574}{2351}, \frac{67}{2351}, \frac{904}{2351}, \frac{263}{2351}, \frac{134}{2351}, -\frac{507}{2351}, \frac{1167}{2351}, \frac{330}{2351}, -\frac{440}{2351})$ $+ \frac{56}{2351}\sqrt{1698e^3} \otimes e_9$	{124789, 1689, 23468, 378}
941:103	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{58e^{12}}, \frac{2}{139}\sqrt{3190e^{34}}, \frac{3}{139}\sqrt{870e^{13}} + \frac{1}{139}\sqrt{1798e^{24}},$ $\frac{2}{139}\sqrt{3799e^{15}} + \frac{2}{139}\sqrt{1015e^{26}}$	$(-\frac{19}{556}, \frac{147}{556}, -\frac{1}{278}, -\frac{42}{139}, \frac{147}{278}, \frac{32}{139}, -\frac{85}{278}, -\frac{21}{556}, \frac{275}{556})$ $+ \frac{1}{139}\sqrt{27434e^5} \otimes e_7$	{1236789, 124679, 367, 4678}
941:103	$0, 0, 0, 0, 0, \frac{31}{1861}\sqrt{22e^{12}}, \frac{62}{1861}\sqrt{231e^{34}}, \frac{682}{1861}e^{13} + \frac{341}{1861}\sqrt{6e^{24}},$ $\frac{31}{1861}\sqrt{1034e^{15}} + \frac{31}{1861}\sqrt{418e^{26}}$	$(\frac{341}{1861}, -\frac{310}{1861}, \frac{31}{1861}, \frac{682}{1861}, -\frac{620}{1861}, \frac{31}{1861}, \frac{713}{1861}, \frac{372}{1861}, -\frac{279}{1861})$ $+ \frac{124}{1861}\sqrt{157e^4} \otimes e_9 + \frac{62}{1861}\sqrt{177e^1} \otimes e_5$	{2589, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:103	$0, 0, 0, 0, 0, \frac{3}{293}\sqrt{4110e^{12}}, \frac{3}{293}\sqrt{3562e^{34}}, \frac{4}{293}\sqrt{822e^{13}} + \frac{2}{293}\sqrt{685e^{24}},$ $\frac{6}{293}\sqrt{411e^{15}} + \frac{1}{293}\sqrt{32606e^{26}}$	$(\frac{11}{293}, \frac{49}{293}, -\frac{25}{293}, -\frac{63}{293}, \frac{98}{293}, \frac{60}{293}, -\frac{88}{293}, -\frac{14}{293}, \frac{109}{293})$ $+ \frac{1}{293}\sqrt{68226e^2} \otimes e_7$	{1234589, 1259, 1356789, 145679}
941:103	$0, 0, 0, 0, 0, \frac{1}{7093}\sqrt{1646e^{12}}, \frac{2}{7093}\sqrt{1263e^{34}},$ $\frac{2}{7093}\sqrt{1043e^{13}} + \frac{1}{7093}\sqrt{3202e^{24}}, \frac{1}{7093}\sqrt{6874e^{15}} + \frac{1}{7093}\sqrt{618e^{26}}$	$(-\frac{45}{7093}, \frac{14}{7093}, \frac{43}{7093}, -\frac{16}{7093}, \frac{28}{7093}, -\frac{31}{7093}, \frac{27}{7093}, -\frac{2}{7093}, -\frac{17}{7093})$ $+ \frac{2}{7093}\sqrt{1491e^5} \otimes e_7 + \frac{2}{7093}\sqrt{1814e^4} \otimes e_9$	{1236789, 4678}
941:103	$0, 0, 0, 0, 0, \frac{221}{4903}\sqrt{10e^{12}}, \frac{52}{4903}\sqrt{15e^{34}},$ $\frac{13}{4903}\sqrt{610e^{13}} + \frac{156}{4903}\sqrt{34e^{24}}, \frac{52}{4903}\sqrt{311e^{15}} + \frac{13}{4903}\sqrt{1622e^{26}}$	$(-\frac{442}{4903}, \frac{104}{4903}, \frac{481}{4903}, -\frac{65}{4903}, \frac{208}{4903}, -\frac{338}{4903}, \frac{416}{4903}, \frac{39}{4903}, -\frac{234}{4903})$ $+ \frac{13}{4903}\sqrt{4414e^4} \otimes e_9 + \frac{520}{4903}\sqrt{3e^5} \otimes e_8$	{1236789, 4678}
941:104	$0, 0, 0, 0, 0, \frac{15}{149}\sqrt{2e^{12}}, \frac{1}{149}\sqrt{186e^{13}}, \frac{1}{149}\sqrt{462e^{14}} + \frac{6}{149}\sqrt{10e^{35}},$ $\frac{15}{149}\sqrt{2e^{16}} + \frac{1}{149}\sqrt{462e^{23}}$	$(-\frac{2}{149}, \frac{12}{149}, -\frac{4}{149}, -\frac{5}{149}, -\frac{3}{149}, \frac{10}{149}, -\frac{6}{149}, -\frac{7}{149}, \frac{8}{149})$ $+ \frac{1}{149}\sqrt{282e^5} \otimes e_7 + \frac{1}{149}\sqrt{138e^1} \otimes e_4$	{12359, 1356}
941:104	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{66e^{12}}, \frac{2}{25}\sqrt{6e^{13}}, \frac{1}{25}\sqrt{219e^{14}} + \frac{1}{25}\sqrt{177e^{35}},$ $\frac{2}{25}\sqrt{66e^{16}} + \frac{2}{25}\sqrt{66e^{23}}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{15e^3} \otimes e_5 + \frac{3}{25}\sqrt{29e^1} \otimes e_4$	{123579, 13567, 234569, 345}
941:104	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{66e^{12}}, \frac{2}{25}\sqrt{6e^{13}}, \frac{1}{25}\sqrt{219e^{14}} + \frac{1}{25}\sqrt{177e^{35}},$ $\frac{2}{25}\sqrt{66e^{16}} + \frac{2}{25}\sqrt{66e^{23}}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, \frac{4}{25}, 0, -\frac{3}{25}, \frac{4}{25})$ $- \frac{3}{25}\sqrt{15e^3} \otimes e_5 + \frac{3}{25}\sqrt{29e^1} \otimes e_4$	{123579, 13567, 234569, 345}
941:104	$0, 0, 0, 0, 0, \frac{9}{43}e^{12}, \frac{3}{43}\sqrt{15e^{13}}, \frac{3}{43}\sqrt{3e^{14}} + \frac{6}{43}\sqrt{15e^{35}},$ $\frac{6}{43}\sqrt{15e^{16}} + \frac{6}{43}\sqrt{6e^{23}}$	$(-\frac{3}{43}, 0, -\frac{6}{43}, \frac{18}{43}, \frac{21}{43}, -\frac{3}{43}, -\frac{9}{43}, \frac{15}{43}, -\frac{6}{43})$ $+ \frac{18}{43}\sqrt{2e^4} \otimes e_7 + \frac{9}{43}\sqrt{17e^5} \otimes e_9$	{14568, 578}
941:104	$0, 0, 0, 0, 0, \frac{1}{275}\sqrt{849e^{12}}, \frac{1}{275}\sqrt{39e^{13}}, \frac{3}{275}\sqrt{91e^{14}} + \frac{2}{275}\sqrt{183e^{35}},$ $\frac{6}{275}\sqrt{29e^{16}} + \frac{1}{275}\sqrt{39e^{23}}$	$(\frac{1}{55}, -\frac{16}{275}, \frac{2}{55}, \frac{2}{275}, -\frac{3}{275}, -\frac{1}{25}, \frac{3}{55}, \frac{7}{275}, -\frac{6}{275})$ $+ \frac{3}{275}\sqrt{65e^5} \otimes e_9 + \frac{6}{275}\sqrt{26e^1} \otimes e_4$	{13567, 345}
941:104	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{105e^{12}}, \frac{5}{41}\sqrt{3e^{13}}, \frac{5}{41}\sqrt{15e^{14}} + \frac{1}{41}\sqrt{105e^{35}},$ $\frac{10}{41}\sqrt{3e^{16}} + \frac{1}{41}\sqrt{555e^{23}}$	$(\frac{2}{41}, \frac{8}{41}, \frac{4}{41}, -\frac{9}{41}, -\frac{11}{41}, \frac{10}{41}, \frac{6}{41}, -\frac{7}{41}, \frac{12}{41})$ $+ \frac{3}{41}\sqrt{65e^2} \otimes e_8 + \frac{6}{41}\sqrt{15e^3} \otimes e_5$	{1245679, 259}
941:104	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{165e^{12}}, \frac{1}{23}\sqrt{195e^{13}}, \frac{1}{23}\sqrt{195e^{14}} + \frac{1}{23}\sqrt{165e^{35}},$ $\frac{1}{23}\sqrt{30e^{16}} + \frac{1}{23}\sqrt{195e^{23}}$	$(-\frac{1}{23}, \frac{11}{23}, -\frac{2}{23}, -\frac{3}{23}, -\frac{2}{23}, \frac{10}{23}, -\frac{3}{23}, -\frac{4}{23}, \frac{9}{23})$ $+ \frac{3}{23}\sqrt{65e^2} \otimes e_8$	{123457, 136789, 2356, 3489}
941:104	$0, 0, 0, 0, 0, \frac{27}{421}\sqrt{62e^{12}}, \frac{45}{421}\sqrt{6e^{13}}, \frac{45}{421}\sqrt{42e^{14}} + \frac{18}{421}\sqrt{102e^{35}},$ $\frac{9}{421}\sqrt{42e^{16}} + \frac{45}{421}\sqrt{42e^{23}}$	$(-\frac{18}{421}, -\frac{36}{421}, -\frac{36}{421}, \frac{171}{421}, \frac{189}{421}, -\frac{54}{421}, -\frac{54}{421}, \frac{153}{421}, -\frac{72}{421})$ $+ \frac{135}{421}\sqrt{2e^5} \otimes e_7 + \frac{270}{421}\sqrt{2e^4} \otimes e_9$	{123467, 23458}
941:104	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{105e^{12}}, \frac{5}{41}\sqrt{3e^{13}}, \frac{1}{41}\sqrt{555e^{14}} + \frac{1}{41}\sqrt{105e^{35}},$ $\frac{10}{41}\sqrt{3e^{16}} + \frac{5}{41}\sqrt{15e^{23}}$	$(-\frac{4}{41}, \frac{14}{41}, -\frac{8}{41}, \frac{3}{41}, \frac{7}{41}, \frac{10}{41}, \frac{12}{41}, -\frac{1}{41}, \frac{6}{41})$ $+ \frac{3}{41}\sqrt{65e^2} \otimes e_8 + \frac{6}{41}\sqrt{15e^4} \otimes e_7$	{178, 468}
941:104	$0, 0, 0, 0, 0, \frac{54}{1543}\sqrt{53e^{12}}, \frac{36}{1543}\sqrt{237e^{13}},$ $\frac{18}{1543}\sqrt{411e^{14}} + \frac{63}{1543}\sqrt{66e^{35}}, \frac{63}{1543}\sqrt{66e^{16}} + \frac{9}{1543}\sqrt{4614e^{23}}$	$(\frac{9}{1543}, \frac{270}{1543}, \frac{18}{1543}, -\frac{216}{1543}, -\frac{225}{1543}, \frac{279}{1543}, \frac{27}{1543}, -\frac{207}{1543}, \frac{288}{1543})$ $+ \frac{27}{1543}\sqrt{442e^2} \otimes e_7 + \frac{54}{1543}\sqrt{137e^3} \otimes e_5$	{1457, 259}
941:104	$0, 0, 0, 0, 0, \frac{14}{1031}\sqrt{822e^{12}}, \frac{14}{1031}\sqrt{303e^{13}},$ $\frac{14}{1031}\sqrt{678e^{14}} + \frac{7}{1031}\sqrt{1398e^{35}}, \frac{63}{1031}\sqrt{34e^{16}} + \frac{231}{1031}\sqrt{2e^{23}}$	$(\frac{7}{1031}, \frac{168}{1031}, \frac{14}{1031}, -\frac{140}{1031}, -\frac{147}{1031}, \frac{175}{1031}, \frac{21}{1031}, -\frac{133}{1031}, \frac{182}{1031})$ $+ \frac{21}{1031}\sqrt{178e^2} \otimes e_7 + \frac{42}{1031}\sqrt{113e^1} \otimes e_4$	{12359, 3457}
941:104	$0, 0, 0, 0, 0, \frac{11}{1061}\sqrt{978e^{12}}, \frac{55}{1061}\sqrt{6e^{13}}, \frac{220}{1061}\sqrt{6e^{14}} + \frac{264}{1061}\sqrt{3e^{35}},$ $\frac{44}{1061}\sqrt{33e^{16}} + \frac{165}{1061}\sqrt{14e^{23}}$	$(-\frac{88}{1061}, \frac{99}{1061}, -\frac{176}{1061}, \frac{286}{1061}, \frac{374}{1061}, \frac{11}{1061}, -\frac{264}{1061}, \frac{198}{1061}, -\frac{77}{1061})$ $+ \frac{165}{1061}\sqrt{10e^2} \otimes e_7 + \frac{660}{1061}e^4 \otimes e_9$	{1457, 259}
941:104	$0, 0, 0, 0, 0, \frac{7}{1165}\sqrt{2886e^{12}}, \frac{7}{1165}\sqrt{1002e^{13}},$ $\frac{7}{1165}\sqrt{3426e^{14}} + \frac{7}{1165}\sqrt{2886e^{35}}, \frac{14}{1165}\sqrt{426e^{16}} + \frac{14}{1165}\sqrt{1122e^{23}}$	$(\frac{14}{233}, -\frac{224}{1165}, \frac{28}{233}, \frac{63}{1165}, -\frac{7}{1165}, -\frac{154}{1165}, \frac{42}{233}, \frac{133}{1165}, -\frac{84}{1165})$ $+ \frac{21}{1165}\sqrt{354e^3} \otimes e_5 + \frac{21}{1165}\sqrt{394e^4} \otimes e_9$	{1457, 259}
941:104	$0, 0, 0, 0, 0, \frac{9}{109}\sqrt{43e^{12}}, \frac{3}{109}\sqrt{39e^{13}}, \frac{3}{109}\sqrt{273e^{14}} + \frac{3}{109}\sqrt{231e^{35}},$ $\frac{6}{109}\sqrt{87e^{16}} + \frac{3}{109}\sqrt{273e^{23}}$	$(\frac{6}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{21}{109}, -\frac{27}{109}, \frac{18}{109}, \frac{18}{109}, -\frac{15}{109}, \frac{24}{109})$ $+ \frac{18}{109}\sqrt{13e^1} \otimes e_4 + \frac{9}{109}\sqrt{13e^2} \otimes e_8$	{12359, 2345679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:104	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{2262e^{12}}, \frac{5}{89}\sqrt{174e^{13}}, \frac{5}{89}\sqrt{174e^{14}} + \frac{2}{89}\sqrt{1653e^{35}},$ $\frac{1}{89}\sqrt{2262e^{16}} + \frac{5}{89}\sqrt{174e^{23}}$	$(-\frac{12}{89}, \frac{26}{89}, -\frac{24}{89}, \frac{39}{89}, \frac{51}{89}, \frac{14}{89}, -\frac{36}{89}, \frac{27}{89}, \frac{2}{89})$ $+ \frac{15}{89}\sqrt{58e^5} \otimes e_7$	{12359, 1356, 236789, 378}
941:104	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2e^{12}}, \frac{6}{61}\sqrt{6e^{13}}, \frac{3}{61}\sqrt{66e^{14}} + \frac{12}{61}\sqrt{6e^{35}},$ $\frac{12}{61}\sqrt{6e^{16}} + \frac{3}{61}\sqrt{42e^{23}}$	$(-\frac{6}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{18}{61}, \frac{24}{61}, \frac{3}{61}, -\frac{18}{61}, \frac{12}{61}, -\frac{3}{61})$ $+ \frac{9}{61}\sqrt{14e^2} \otimes e_7 + \frac{9}{61}\sqrt{22e^5} \otimes e_9$	{129, 578}
941:104	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{15e^{12}}, \frac{1}{37}\sqrt{51e^{13}}, \frac{1}{37}\sqrt{105e^{14}} + \frac{1}{37}\sqrt{15e^{35}},$ $\frac{2}{37}\sqrt{3e^{16}} + \frac{1}{37}\sqrt{105e^{23}}$	$(-\frac{2}{37}, \frac{4}{37}, -\frac{4}{37}, \frac{3}{37}, \frac{5}{37}, \frac{2}{37}, -\frac{6}{37}, \frac{1}{37}, 0)$ $+ \frac{3}{37}\sqrt{11e^2} \otimes e_8 + \frac{6}{37}\sqrt{3e^4} \otimes e_9$	{2579, 4678}
941:104	$0, 0, 0, 0, 0, \frac{4}{159}\sqrt{1005e^{12}}, \frac{8}{53}\sqrt{30e^{13}}, \frac{16}{53}\sqrt{10e^{14}} + \frac{4}{159}\sqrt{1005e^{35}},$ $\frac{4}{159}\sqrt{1005e^{16}} + \frac{16}{53}\sqrt{5e^{23}}$	$(-\frac{19}{159}, \frac{34}{159}, -\frac{38}{159}, \frac{21}{53}, \frac{82}{159}, \frac{5}{53}, -\frac{19}{53}, \frac{44}{159}, -\frac{4}{159})$ $+ \frac{16}{53}\sqrt{15e^4} \otimes e_7$	{126789, 178, 2489, 468}
941:104	$0, 0, 0, 0, 0, \frac{4}{175}\sqrt{714e^{12}}, \frac{8}{175}\sqrt{39e^{13}}, \frac{16}{175}\sqrt{39e^{14}} + \frac{4}{175}\sqrt{402e^{35}},$ $\frac{4}{175}\sqrt{714e^{16}} + \frac{16}{175}\sqrt{39e^{23}}$	$(\frac{3}{35}, \frac{4}{175}, \frac{6}{35}, -\frac{33}{175}, -\frac{48}{175}, \frac{19}{175}, \frac{9}{175}, -\frac{18}{175}, \frac{34}{175})$ $+ \frac{24}{175}\sqrt{26e^1} \otimes e_4$	{12359, 1356, 2345679, 3457}
941:104	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{663e^{12}}, \frac{10}{169}\sqrt{51e^{13}}, \frac{20}{169}\sqrt{51e^{14}} + \frac{4}{169}\sqrt{663e^{35}},$ $\frac{2}{169}\sqrt{102e^{16}} + \frac{20}{169}\sqrt{51e^{23}}$	$(-\frac{2}{169}, -\frac{29}{169}, -\frac{4}{169}, \frac{69}{169}, \frac{71}{169}, -\frac{31}{169}, -\frac{6}{169}, \frac{67}{169}, -\frac{33}{169})$ $+ \frac{30}{169}\sqrt{34e^4} \otimes e_9$	{12689, 145, 2579, 4678}
941:104	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2e^{12}}, \frac{6}{61}\sqrt{6e^{13}}, \frac{6}{61}\sqrt{6e^{14}} + \frac{3}{61}\sqrt{114e^{35}},$ $\frac{3}{61}\sqrt{6e^{16}} + \frac{6}{61}\sqrt{6e^{23}}$	$(-\frac{6}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{9}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{9}{61}\sqrt{14e^5} \otimes e_7 + \frac{9}{61}\sqrt{22e^2} \otimes e_8$	{1568, 2679}
941:104	$0, 0, 0, 0, 0, \frac{4}{159}\sqrt{1005e^{12}}, \frac{8}{53}\sqrt{30e^{13}}, \frac{16}{53}\sqrt{5e^{14}} + \frac{4}{159}\sqrt{1005e^{35}},$ $\frac{4}{159}\sqrt{1005e^{16}} + \frac{16}{53}\sqrt{10e^{23}}$	$(\frac{29}{159}, -\frac{14}{159}, \frac{58}{159}, -\frac{11}{53}, -\frac{62}{159}, \frac{5}{53}, \frac{29}{53}, -\frac{4}{159}, \frac{44}{159})$ $+ \frac{16}{53}\sqrt{15e^3} \otimes e_5$	{1245679, 1457, 259, 56}
941:105	$0, 0, 0, 0, 0, \frac{74}{5765}\sqrt{1039e^{24}} + \frac{37}{5765}\sqrt{238e^{12}}, \frac{37}{5765}\sqrt{2422e^{13}},$ $\frac{37}{5765}\sqrt{2818e^{35}} + \frac{37}{5765}\sqrt{226e^{16}} + \frac{148}{5765}\sqrt{177e^{23}}$	$(-\frac{74}{1153}, \frac{259}{5765}, -\frac{148}{1153}, \frac{888}{5765}, \frac{1887}{5765}, -\frac{111}{5765}, \frac{222}{1153}, \frac{1147}{5765}, -\frac{481}{5765})$ $+ \frac{111}{5765}\sqrt{622e^2} \otimes e_7 + \frac{148}{5765}\sqrt{311e^4} \otimes e_9$	{12346, 3679}
941:105	$0, 0, 0, 0, 0, \frac{7}{221}\sqrt{246e^{12}}, \frac{28}{221}\sqrt{30e^{13}}, \frac{21}{221}\sqrt{34e^{24}} + \frac{28}{221}\sqrt{39e^{35}},$ $\frac{21}{221}\sqrt{58e^{16}} + \frac{28}{221}\sqrt{15e^{23}}$	$(-\frac{16}{221}, \frac{2}{221}, -\frac{32}{221}, \frac{83}{221}, \frac{9}{17}, -\frac{14}{221}, -\frac{48}{221}, \frac{5}{13}, -\frac{30}{221})$ $+ \frac{63}{221}\sqrt{14e^5} \otimes e_9$	{129, 1568, 2679, 578}
941:105	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{55e^{12}}, \frac{1}{37}\sqrt{11e^{13}}, \frac{1}{37}\sqrt{59e^{24}} + \frac{1}{37}\sqrt{55e^{35}},$ $\frac{2}{37}\sqrt{23e^{16}} + \frac{1}{37}\sqrt{65e^{23}}$	$(\frac{2}{37}, -\frac{4}{37}, \frac{4}{37}, \frac{3}{37}, -\frac{5}{37}, -\frac{2}{37}, \frac{6}{37}, -\frac{1}{37}, 0)$ $+ \frac{1}{37}\sqrt{145e^1} \otimes e_8 + \frac{2}{37}\sqrt{13e^4} \otimes e_9$	{236789, 3478}
941:105	$0, 0, 0, 0, 0, \frac{9}{379}\sqrt{435e^{12}}, \frac{36}{379}\sqrt{3e^{13}}, \frac{9}{379}\sqrt{273e^{24}} + \frac{54}{379}\sqrt{11e^{35}},$ $\frac{18}{379}\sqrt{3e^{16}} + \frac{81}{379}\sqrt{3e^{23}}$	$(-\frac{36}{379}, \frac{153}{379}, -\frac{72}{379}, -\frac{90}{379}, \frac{135}{379}, \frac{117}{379}, -\frac{108}{379}, \frac{63}{379}, \frac{81}{379})$ $+ \frac{18}{379}\sqrt{267e^2} \otimes e_4 + \frac{9}{379}\sqrt{951e^5} \otimes e_7$	{1235, 134569}
941:105	$0, 0, 0, 0, 0, \frac{4}{1087}\sqrt{795e^{12}}, \frac{1}{1087}\sqrt{694830e^{13}},$ $\frac{18}{1087}\sqrt{1855e^{24}} + \frac{3}{1087}\sqrt{53530e^{35}}, \frac{3}{1087}\sqrt{31270e^{16}} + \frac{4}{1087}\sqrt{24645e^{23}}$	$(-\frac{114}{1087}, \frac{453}{1087}, -\frac{228}{1087}, -\frac{224}{1087}, \frac{457}{1087}, \frac{339}{1087}, -\frac{342}{1087}, \frac{229}{1087}, \frac{225}{1087})$ $+ \frac{3}{1087}\sqrt{164830e^2} \otimes e_7$	{1234, 12358, 345789, 379}
941:105	$0, 0, 0, 0, 0, \frac{3}{277}\sqrt{21e^{12}}, \frac{1}{277}\sqrt{489e^{13}}, \frac{3}{277}\sqrt{69e^{24}} + \frac{3}{277}\sqrt{21e^{35}},$ $\frac{6}{277}\sqrt{11e^{16}} + \frac{1}{277}\sqrt{579e^{23}}$	$(\frac{4}{277}, -\frac{14}{277}, \frac{8}{277}, \frac{15}{277}, -\frac{7}{277}, -\frac{10}{277}, \frac{12}{277}, \frac{1}{277}, -\frac{6}{277})$ $+ \frac{1}{277}\sqrt{951e^1} \otimes e_8 + \frac{2}{277}\sqrt{141e^4} \otimes e_7$	{123459, 236789}
941:105	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{39e^{12}}, \frac{3}{23}e^{13}, \frac{1}{23}\sqrt{15e^{24}} + \frac{1}{23}\sqrt{39e^{35}},$ $\frac{2}{23}\sqrt{11e^{16}} + \frac{7}{23}e^{23}$	$(0, \frac{2}{23}, 0, -\frac{3}{23}, -\frac{1}{23}, \frac{2}{23}, 0, -\frac{1}{23}, \frac{2}{23})$ $+ \frac{1}{23}\sqrt{65e^1} \otimes e_8 + \frac{2}{23}\sqrt{7e^3} \otimes e_5$	{1234579, 13567}
941:105	$0, 0, 0, 0, 0, \frac{4}{451}\sqrt{498e^{12}}, \frac{4}{451}\sqrt{318e^{13}}, \frac{36}{451}\sqrt{6e^{24}} + \frac{12}{451}\sqrt{38e^{35}},$ $\frac{24}{451}\sqrt{14e^{16}} + \frac{4}{451}\sqrt{494e^{23}}$	$(\frac{4}{451}, \frac{4}{41}, \frac{8}{451}, -\frac{72}{451}, -\frac{36}{451}, \frac{48}{451}, \frac{12}{451}, -\frac{28}{451}, \frac{52}{451})$ $+ \frac{24}{451}\sqrt{13e^2} \otimes e_7 + \frac{4}{451}\sqrt{1138e^1} \otimes e_8$	{123459, 3478}
941:105	$0, 0, 0, 0, 0, \frac{21}{1741}\sqrt{438e^{12}}, \frac{14}{1741}\sqrt{1614e^{13}},$ $\frac{21}{1741}\sqrt{458e^{24}} + \frac{21}{1741}\sqrt{438e^{35}}, \frac{14}{1741}\sqrt{642e^{16}} + \frac{21}{1741}\sqrt{170e^{23}}$	$(\frac{56}{1741}, -\frac{238}{1741}, \frac{112}{1741}, \frac{315}{1741}, -\frac{35}{1741}, -\frac{182}{1741}, \frac{168}{1741}, \frac{77}{1741}, -\frac{126}{1741})$ $+ \frac{7}{1741}\sqrt{4434e^3} \otimes e_5 + \frac{7}{1741}\sqrt{5730e^4} \otimes e_7$	{157, 2459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:105	$0, 0, 0, 0, 0, \frac{46}{1187}\sqrt{2e^{12}}, \frac{184}{1187}\sqrt{6e^{13}}, \frac{161}{1187}\sqrt{3e^{24}} + \frac{161}{1187}\sqrt{7e^{35}},$ $\frac{322}{1187}\sqrt{2e^{16}} + \frac{184}{1187}\sqrt{15e^{23}}$	$(\frac{92}{1187}, \frac{184}{1187}, \frac{184}{1187}, -\frac{345}{1187}, -\frac{345}{1187}, \frac{276}{1187}, \frac{276}{1187}, -\frac{161}{1187}, \frac{368}{1187})$ $+ \frac{23}{1187}\sqrt{1005e^2} \otimes e_4 - \frac{23}{1187}\sqrt{1201e^3} \otimes e_5$	{125679, 1457, 259, 456}
941:105	$0, 0, 0, 0, 0, \frac{46}{1187}\sqrt{2e^{12}}, \frac{184}{1187}\sqrt{6e^{13}}, \frac{161}{1187}\sqrt{3e^{24}} + \frac{161}{1187}\sqrt{7e^{35}},$ $\frac{322}{1187}\sqrt{2e^{16}} + \frac{184}{1187}\sqrt{15e^{23}}$	$(\frac{92}{1187}, \frac{184}{1187}, \frac{184}{1187}, -\frac{345}{1187}, -\frac{345}{1187}, \frac{276}{1187}, \frac{276}{1187}, -\frac{161}{1187}, \frac{368}{1187})$ $+ \frac{23}{1187}\sqrt{1005e^2} \otimes e_4 + \frac{23}{1187}\sqrt{1201e^3} \otimes e_5$	{125679, 1457, 259, 456}
941:105	$0, 0, 0, 0, 0, \frac{4}{667}\sqrt{10915e^{12}}, \frac{4}{667}\sqrt{20165e^{13}},$ $\frac{2}{667}\sqrt{74370e^{24}} + \frac{4}{667}\sqrt{10915e^{35}}, \frac{2}{667}\sqrt{18870e^{16}} + \frac{2}{667}\sqrt{12395e^{23}}$	$(-\frac{35}{667}, -\frac{36}{667}, -\frac{70}{667}, \frac{265}{667}, \frac{13}{667}, -\frac{71}{667}, -\frac{105}{667}, \frac{229}{667}, -\frac{106}{667})$ $+ \frac{4}{667}\sqrt{27935e^4} \otimes e_7$	{123469, 13458, 235789, 367}
941:105	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{51e^{12}}, \frac{1}{97}\sqrt{255e^{13}}, \frac{3}{97}\sqrt{85e^{24}} + \frac{5}{97}\sqrt{51e^{35}},$ $\frac{3}{97}\sqrt{170e^{16}} + \frac{1}{97}\sqrt{1547e^{23}}$	$(\frac{7}{97}, -\frac{1}{97}, \frac{14}{97}, -\frac{9}{97}, -\frac{24}{97}, \frac{6}{97}, \frac{21}{97}, -\frac{10}{97}, \frac{13}{97})$ $+ \frac{1}{97}\sqrt{2839e^1} \otimes e_8$	{123459, 1356, 236789, 3478}
941:105	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{2262e^{12}}, \frac{6}{133}\sqrt{406e^{13}}, \frac{4}{133}\sqrt{174e^{24}} + \frac{2}{133}\sqrt{2262e^{35}},$ $\frac{2}{133}\sqrt{2030e^{16}} + \frac{2}{133}\sqrt{3306e^{23}}$	$(\frac{26}{133}, -\frac{15}{133}, \frac{52}{133}, \frac{3}{133}, -\frac{64}{133}, \frac{11}{133}, \frac{78}{133}, -\frac{12}{133}, \frac{37}{133})$ $+ \frac{4}{133}\sqrt{1711e^3} \otimes e_5$	{1245679, 157, 2459, 56}
941:105	$0, 0, 0, 0, 0, \frac{2}{737}\sqrt{29830e^{12}}, \frac{2}{737}\sqrt{5966e^{13}},$ $\frac{4}{737}\sqrt{19939e^{24}} + \frac{2}{737}\sqrt{29830e^{35}}, \frac{2}{737}\sqrt{61858e^{16}} + \frac{2}{737}\sqrt{51810e^{23}}$	$(\frac{32}{737}, -\frac{19}{67}, \frac{64}{737}, \frac{483}{737}, \frac{210}{737}, -\frac{177}{737}, \frac{96}{737}, \frac{274}{737}, -\frac{145}{737})$ $+ \frac{4}{737}\sqrt{48827e^4} \otimes e_9$	{123467, 1379, 234, 369}
941:105	$0, 0, 0, 0, 0, \frac{40}{1273}\sqrt{35e^{12}}, \frac{15}{1273}\sqrt{670e^{13}},$ $\frac{70}{1273}\sqrt{15e^{24}} + \frac{5}{1273}\sqrt{4330e^{35}}, \frac{25}{1273}\sqrt{134e^{16}} + \frac{20}{1273}\sqrt{285e^{23}}$	$(\frac{10}{1273}, \frac{155}{1273}, \frac{20}{1273}, -\frac{240}{1273}, -\frac{105}{1273}, \frac{165}{1273}, \frac{30}{1273}, -\frac{85}{1273}, \frac{175}{1273})$ $+ \frac{20}{1273}\sqrt{370e^3} \otimes e_5 + \frac{5}{1273}\sqrt{6270e^2} \otimes e_7$	{157, 2459}
941:105	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{170e^{12}}, \frac{8}{11}\sqrt{5e^{13}}, \frac{3}{11}\sqrt{30e^{24}} + \frac{4}{11}\sqrt{15e^{35}},$ $\frac{5}{11}\sqrt{6e^{16}} + \frac{4}{11}\sqrt{5e^{23}}$	$(0, -\frac{2}{11}, 0, \frac{5}{11}, \frac{3}{11}, -\frac{2}{11}, 0, \frac{3}{11}, -\frac{2}{11})$ $+ \frac{1}{11}\sqrt{210e^5} \otimes e_9 + \frac{8}{11}\sqrt{5e^4} \otimes e_7$	{235789, 367}
941:105	$0, 0, 0, 0, 0, \frac{102}{1189}\sqrt{13e^{12}}, \frac{34}{1189}\sqrt{13e^{13}},$ $\frac{34}{1189}\sqrt{39e^{24}} + \frac{34}{1189}\sqrt{143e^{35}}, \frac{68}{1189}\sqrt{39e^{16}} + \frac{34}{1189}\sqrt{249e^{23}}$	$(-\frac{119}{1189}, \frac{221}{1189}, -\frac{238}{1189}, \frac{102}{1189}, \frac{561}{1189}, \frac{102}{1189}, -\frac{357}{1189}, \frac{323}{1189}, -\frac{17}{1189})$ $+ \frac{34}{1189}\sqrt{485e^2} \otimes e_7 + \frac{34}{1189}\sqrt{563e^5} \otimes e_9$	{1249, 4578}
941:105	$0, 0, 0, 0, 0, \frac{13}{1941}\sqrt{3054e^{12}}, \frac{26}{1941}\sqrt{942e^{13}},$ $\frac{13}{647}\sqrt{322e^{24}} + \frac{26}{1941}\sqrt{894e^{35}}, \frac{13}{647}\sqrt{290e^{16}} + \frac{52}{647}\sqrt{21e^{23}}$	$(-\frac{52}{647}, \frac{130}{647}, -\frac{104}{647}, -\frac{39}{647}, \frac{195}{647}, \frac{78}{647}, -\frac{156}{647}, \frac{91}{647}, \frac{26}{647})$ $+ \frac{13}{1941}\sqrt{6126e^5} \otimes e_9 + \frac{52}{1941}\sqrt{285e^2} \otimes e_4$	{129, 2679}
941:105	$0, 0, 0, 0, 0, \frac{2}{2147}\sqrt{852510e^{12}}, \frac{2}{2147}\sqrt{487614e^{13}},$ $\frac{12}{2147}\sqrt{13213e^{24}} + \frac{2}{2147}\sqrt{194394e^{35}}, \frac{6}{2147}\sqrt{3982e^{16}} + \frac{2}{2147}\sqrt{737394e^{23}}$	$(-\frac{40}{2147}, \frac{59}{113}, -\frac{80}{2147}, -\frac{1051}{2147}, \frac{150}{2147}, \frac{1081}{2147}, -\frac{120}{2147}, \frac{70}{2147}, \frac{1041}{2147})$ $+ \frac{12}{2147}\sqrt{54843e^2} \otimes e_4$	{129, 146, 2679, 47}
941:105	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{1515e^{12}}, \frac{1}{277}\sqrt{46662e^{13}},$ $\frac{3}{277}\sqrt{101e^{24}} + \frac{1}{277}\sqrt{47874e^{35}}, \frac{3}{277}\sqrt{202e^{16}} + \frac{1}{277}\sqrt{23331e^{23}}$	$(-\frac{35}{277}, \frac{82}{277}, -\frac{70}{277}, \frac{46}{277}, \frac{198}{277}, \frac{47}{277}, -\frac{105}{277}, \frac{128}{277}, \frac{12}{277})$ $+ \frac{9}{277}\sqrt{1717e^5} \otimes e_7$	{123459, 1356, 236789, 3478}
941:105	$0, 0, 0, 0, 0, \frac{25}{1049}\sqrt{185e^{12}}, \frac{50}{1049}\sqrt{55e^{13}},$ $\frac{25}{1049}\sqrt{427e^{24}} + \frac{150}{1049}\sqrt{2e^{35}}, \frac{50}{1049}\sqrt{79e^{16}} + \frac{25}{1049}\sqrt{159e^{23}}$	$(-\frac{50}{1049}, -\frac{75}{1049}, -\frac{100}{1049}, \frac{450}{1049}, \frac{475}{1049}, -\frac{125}{1049}, -\frac{150}{1049}, \frac{375}{1049}, -\frac{175}{1049})$ $+ \frac{25}{1049}\sqrt{771e^5} \otimes e_7 + \frac{50}{1049}\sqrt{269e^4} \otimes e_9$	{123456, 1359}
941:105	$0, 0, 0, 0, 0, \frac{10}{181}\sqrt{2e^{12}}, \frac{1}{181}\sqrt{102e^{13}}, \frac{2}{181}\sqrt{30e^{24}} + \frac{1}{181}\sqrt{262e^{35}},$ $\frac{4}{181}\sqrt{15e^{16}} + \frac{2}{181}\sqrt{71e^{23}}$	$(-\frac{1}{181}, \frac{9}{181}, -\frac{2}{181}, -\frac{12}{181}, -\frac{1}{181}, \frac{8}{181}, -\frac{3}{181}, -\frac{3}{181}, \frac{7}{181})$ $+ \frac{1}{181}\sqrt{186e^5} \otimes e_7 + \frac{1}{181}\sqrt{466e^1} \otimes e_8$	{123459, 1356, 236789, 3478}
941:105	$0, 0, 0, 0, 0, \frac{10}{181}\sqrt{2e^{12}}, \frac{1}{181}\sqrt{102e^{13}}, \frac{2}{181}\sqrt{30e^{24}} + \frac{1}{181}\sqrt{262e^{35}},$ $\frac{4}{181}\sqrt{15e^{16}} + \frac{2}{181}\sqrt{71e^{23}}$	$(-\frac{1}{181}, \frac{9}{181}, -\frac{2}{181}, -\frac{12}{181}, -\frac{1}{181}, \frac{8}{181}, -\frac{3}{181}, -\frac{3}{181}, \frac{7}{181})$ $- \frac{1}{181}\sqrt{186e^5} \otimes e_7 + \frac{1}{181}\sqrt{466e^1} \otimes e_8$	{123459, 1356, 236789, 3478}
941:105	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42e^{12}}, \frac{1}{263}\sqrt{42e^{13}}, \frac{6}{263}e^{24} + \frac{1}{263}\sqrt{222e^{35}},$ $\frac{3}{263}\sqrt{26e^{16}} + \frac{1}{263}\sqrt{134e^{23}}$	$(\frac{2}{263}, -\frac{8}{263}, \frac{4}{263}, \frac{9}{263}, -\frac{3}{263}, -\frac{6}{263}, \frac{6}{263}, \frac{1}{263}, -\frac{4}{263})$ $+ \frac{1}{263}\sqrt{310e^1} \otimes e_8 + \frac{9}{263}\sqrt{2e^5} \otimes e_9$	{13567, 23689}
941:105	$0, 0, 0, 0, 0, \frac{11}{719}\sqrt{555e^{12}}, \frac{55}{719}\sqrt{3e^{13}}, \frac{33}{719}\sqrt{31e^{24}} + \frac{11}{719}\sqrt{519e^{35}},$ $\frac{66}{719}\sqrt{17e^{16}} + \frac{11}{719}\sqrt{581e^{23}}$	$(\frac{44}{719}, \frac{22}{719}, \frac{88}{719}, -\frac{99}{719}, -\frac{165}{719}, \frac{66}{719}, \frac{132}{719}, -\frac{77}{719}, \frac{110}{719})$ $+ \frac{11}{719}\sqrt{1141e^1} \otimes e_8 + \frac{66}{719}\sqrt{3e^2} \otimes e_4$	{236789, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:106	$0, 0, 0, 0, 0, \frac{6}{685}\sqrt{3794}e^{12}, \frac{4}{685}\sqrt{15989}e^{13},$ $\frac{2}{685}\sqrt{46883}e^{14} + \frac{4}{685}\sqrt{16531}e^{25}, \frac{4}{685}\sqrt{813}e^{16} + \frac{4}{685}\sqrt{813}e^{34}$	$(- \frac{18}{137}, \frac{63}{137}, - \frac{1}{5}, \frac{272}{685}, - \frac{133}{685}, \frac{45}{137}, - \frac{227}{685}, \frac{182}{685}, \frac{27}{137})$ $+ \frac{2}{685}\sqrt{155554}e^2 \otimes e_7$	{12359, 167, 24569, 347}
941:106	$0, 0, 0, 0, 0, \frac{15}{353}\sqrt{59}e^{12}, \frac{195}{706}\sqrt{2}e^{13}, \frac{15}{353}\sqrt{300}e^{14} + \frac{15}{353}\sqrt{26}e^{25},$ $\frac{15}{706}\sqrt{290}e^{16} + \frac{15}{353}\sqrt{114}e^{34}$	$(- \frac{45}{353}, \frac{150}{353}, - \frac{60}{353}, \frac{120}{353}, - \frac{75}{353}, \frac{105}{353}, - \frac{105}{353}, \frac{75}{353}, \frac{60}{353})$ $+ \frac{15}{353}\sqrt{373}e^4 \otimes e_7 + \frac{15}{706}\sqrt{1018}e^2 \otimes e_5$	{1234, 3579}
941:106	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{11}e^{12}, \frac{9}{68}\sqrt{14}e^{13}, \frac{3}{68}\sqrt{58}e^{14} + \frac{3}{34}\sqrt{34}e^{25},$ $\frac{3}{68}\sqrt{74}e^{16} + \frac{3}{34}\sqrt{26}e^{34}$	$(0, \frac{3}{17}, \frac{6}{17}, - \frac{3}{17}, - \frac{6}{17}, \frac{3}{17}, \frac{6}{17}, - \frac{3}{17}, \frac{3}{17})$ $+ \frac{3}{34}\sqrt{89}e^3 \otimes e_8 + \frac{3}{68}\sqrt{122}e^2 \otimes e_5$	{1578, 2489}
941:106	$0, 0, 0, 0, 0, \frac{2}{2673}\sqrt{537586}e^{12}, \frac{4}{891}\sqrt{21242}e^{13},$ $\frac{2}{2673}\sqrt{373369}e^{14} + \frac{2}{2673}\sqrt{782686}e^{25}, \frac{2}{2673}\sqrt{441997}e^{16} + \frac{2}{2673}\sqrt{495919}e^{34}$	$(\frac{61}{891}, \frac{7}{243}, \frac{1130}{2673}, - \frac{229}{891}, - \frac{581}{2673}, \frac{260}{2673}, \frac{1313}{2673}, - \frac{56}{297}, \frac{443}{2673})$ $+ \frac{4}{2673}\sqrt{468958}e^3 \otimes e_8$	{134, 1578, 23579, 2489}
941:106	$0, 0, 0, 0, 0, \frac{2}{2617}\sqrt{439566}e^{12}, \frac{4}{2617}\sqrt{223386}e^{13},$ $\frac{2}{2617}\sqrt{889941}e^{14} + \frac{2}{2617}\sqrt{7206}e^{25}, \frac{2}{2617}\sqrt{661751}e^{16} + \frac{2}{2617}\sqrt{673761}e^{34}$	$(- \frac{175}{2617}, \frac{753}{2617}, - \frac{912}{2617}, \frac{1315}{2617}, \frac{387}{2617}, \frac{578}{2617}, - \frac{1087}{2617}, \frac{1140}{2617}, \frac{403}{2617})$ $+ \frac{8}{2617}\sqrt{166939}e^4 \otimes e_7$	{134, 1578, 23579, 2489}
941:106	$0, 0, 0, 0, 0, \frac{5}{483}\sqrt{339}e^{12}, \frac{5}{483}\sqrt{357}e^{13}, \frac{5}{483}\sqrt{219}e^{14} + \frac{40}{161}\sqrt{2}e^{25},$ $\frac{10}{483}\sqrt{51}e^{16} + \frac{10}{483}\sqrt{213}e^{34}$	$(\frac{15}{161}, - \frac{30}{161}, \frac{20}{161}, - \frac{20}{161}, \frac{25}{161}, - \frac{15}{161}, \frac{5}{23}, - \frac{5}{161}, 0)$ $+ \frac{5}{483}\sqrt{1329}e^5 \otimes e_9 + \frac{60}{161}e^3 \otimes e_8$	{139, 23457}
941:106	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{165}e^{12}, \frac{11}{57}\sqrt{3}e^{13}, \frac{1}{57}\sqrt{1155}e^{14} + \frac{4}{19}\sqrt{11}e^{25},$ $\frac{2}{57}\sqrt{330}e^{16} + \frac{2}{57}\sqrt{330}e^{34}$	$(\frac{3}{19}, - \frac{6}{19}, - \frac{2}{19}, \frac{2}{19}, \frac{11}{19}, - \frac{3}{19}, \frac{1}{19}, \frac{5}{19}, 0)$ $+ \frac{1}{57}\sqrt{3201}e^5 \otimes e_9$	{12489, 1345678, 23689, 578}
941:106	$0, 0, 0, 0, 0, \frac{35}{363}\sqrt{3}e^{12}, \frac{7}{363}\sqrt{93}e^{13}, \frac{7}{363}\sqrt{195}e^{14} + \frac{56}{121}e^{25},$ $\frac{70}{363}\sqrt{3}e^{16} + \frac{14}{363}\sqrt{165}e^{34}$	$(\frac{7}{121}, - \frac{14}{121}, - \frac{28}{121}, \frac{28}{121}, \frac{49}{121}, - \frac{7}{121}, - \frac{21}{121}, \frac{35}{121}, 0)$ $+ \frac{28}{121}\sqrt{5}e^4 \otimes e_7 + \frac{7}{363}\sqrt{1209}e^5 \otimes e_9$	{12567, 469}
941:106	$0, 0, 0, 0, 0, \frac{27}{2153}\sqrt{114}e^{12}, \frac{9}{2153}\sqrt{1465}e^{13},$ $\frac{9}{2153}\sqrt{1055}e^{14} + \frac{18}{2153}\sqrt{205}e^{25}, \frac{9}{2153}\sqrt{1070}e^{16} + \frac{18}{2153}\sqrt{238}e^{34}$	$(- \frac{81}{2153}, \frac{234}{2153}, \frac{36}{2153}, \frac{36}{2153}, - \frac{279}{2153}, \frac{153}{2153}, - \frac{45}{2153}, - \frac{45}{2153}, \frac{72}{2153})$ $- \frac{9}{2153}\sqrt{1817}e^4 \otimes e_7 + \frac{9}{2153}\sqrt{2227}e^3 \otimes e_8$	{134, 1578, 23579, 2489}
941:106	$0, 0, 0, 0, 0, \frac{27}{2153}\sqrt{114}e^{12}, \frac{9}{2153}\sqrt{1465}e^{13},$ $\frac{9}{2153}\sqrt{1055}e^{14} + \frac{18}{2153}\sqrt{205}e^{25}, \frac{9}{2153}\sqrt{1070}e^{16} + \frac{18}{2153}\sqrt{238}e^{34}$	$(- \frac{81}{2153}, \frac{234}{2153}, \frac{36}{2153}, \frac{36}{2153}, - \frac{279}{2153}, \frac{153}{2153}, - \frac{45}{2153}, - \frac{45}{2153}, \frac{72}{2153})$ $+ \frac{9}{2153}\sqrt{1817}e^4 \otimes e_7 + \frac{9}{2153}\sqrt{2227}e^3 \otimes e_8$	{134, 1578, 23579, 2489}
941:106	$0, 0, 0, 0, 0, \frac{2}{665}\sqrt{113702}e^{12}, \frac{4}{665}\sqrt{7771}e^{13},$ $\frac{2}{665}\sqrt{24131}e^{14} + \frac{2}{665}\sqrt{13906}e^{25}, \frac{6}{665}\sqrt{2863}e^{16} + \frac{6}{665}\sqrt{2863}e^{34}$	$(- \frac{89}{665}, \frac{421}{665}, \frac{26}{133}, \frac{113}{665}, - \frac{397}{665}, \frac{332}{665}, \frac{41}{665}, \frac{24}{665}, \frac{243}{665})$ $+ \frac{4}{665}\sqrt{56033}e^2 \otimes e_5$	{12379, 156, 24679, 345}
941:106	$0, 0, 0, 0, 0, \frac{17}{1733}\sqrt{231}e^{12}, \frac{17}{1733}\sqrt{1262}e^{13},$ $\frac{17}{1733}\sqrt{86}e^{14} + \frac{17}{1733}\sqrt{1261}e^{25}, \frac{204}{1733}\sqrt{3}e^{16} + \frac{17}{1733}\sqrt{429}e^{34}$	$(- \frac{102}{1733}, \frac{357}{1733}, \frac{170}{1733}, - \frac{17}{1733}, \frac{476}{1733}, \frac{255}{1733}, \frac{68}{1733}, - \frac{119}{1733}, \frac{153}{1733})$ $+ \frac{17}{1733}\sqrt{1435}e^2 \otimes e_7 + \frac{17}{1733}\sqrt{1722}e^3 \otimes e_8$	{123569, 3467}
941:107	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{28}{289}\sqrt{2}e^{13}, \frac{4}{289}\sqrt{854}e^{15} + \frac{28}{289}\sqrt{3}e^{24},$ $\frac{28}{289}\sqrt{3}e^{16} + \frac{4}{289}\sqrt{805}e^{34}$	$(- \frac{42}{289}, \frac{66}{289}, \frac{52}{289}, - \frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, - \frac{4}{289}, - \frac{18}{289})$ $+ \frac{4}{289}\sqrt{903}e^3 \otimes e_8 + \frac{8}{289}\sqrt{238}e^5 \otimes e_9$	{124689, 13457, 239, 5678}
941:107	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{28}{289}\sqrt{2}e^{13}, \frac{4}{289}\sqrt{854}e^{15} + \frac{28}{289}\sqrt{3}e^{24},$ $\frac{28}{289}\sqrt{3}e^{16} + \frac{4}{289}\sqrt{805}e^{34}$	$(- \frac{42}{289}, \frac{66}{289}, \frac{52}{289}, - \frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, - \frac{4}{289}, - \frac{18}{289})$ $- \frac{4}{289}\sqrt{903}e^3 \otimes e_8 + \frac{8}{289}\sqrt{238}e^5 \otimes e_9$	{124689, 13457, 239, 5678}
941:107	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{2}{283}\sqrt{9095}e^{13}, \frac{20}{283}\sqrt{119}e^{15} + \frac{8}{283}\sqrt{510}e^{24},$ $\frac{2}{283}\sqrt{2805}e^{16} + \frac{2}{283}\sqrt{12835}e^{34}$	$(- \frac{63}{283}, \frac{99}{283}, - \frac{8}{283}, - \frac{19}{283}, \frac{143}{283}, \frac{36}{283}, - \frac{71}{283}, \frac{80}{283}, - \frac{27}{283})$ $+ \frac{2}{283}\sqrt{20995}e^5 \otimes e_9$	{12489, 134567, 2369, 578}
941:107	$0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{20}{283}\sqrt{119}e^{13},$ $\frac{2}{283}\sqrt{9095}e^{15} + \frac{2}{283}\sqrt{12835}e^{24}, \frac{2}{283}\sqrt{2805}e^{16} + \frac{8}{283}\sqrt{510}e^{34}$	$(- \frac{63}{283}, \frac{99}{283}, - \frac{8}{283}, - \frac{19}{283}, \frac{143}{283}, \frac{36}{283}, - \frac{71}{283}, \frac{80}{283}, - \frac{27}{283})$ $+ \frac{2}{283}\sqrt{20995}e^2 \otimes e_7$	{12349, 145678, 2689, 357}
941:107	$0, 0, 0, 0, 0, \frac{64}{1139}\sqrt{5}e^{12}, \frac{32}{1139}\sqrt{46}e^{13}, \frac{32}{1139}\sqrt{262}e^{15} + \frac{32}{1139}\sqrt{33}e^{24},$ $\frac{32}{1139}\sqrt{39}e^{16} + \frac{32}{1139}\sqrt{393}e^{34}$	$(- \frac{112}{1139}, \frac{176}{1139}, - \frac{224}{1139}, \frac{176}{1139}, \frac{464}{1139}, \frac{64}{1139}, - \frac{336}{1139}, \frac{352}{1139}, - \frac{48}{1139})$ $+ \frac{32}{1139}\sqrt{413}e^4 \otimes e_7 + \frac{96}{1139}\sqrt{67}e^5 \otimes e_9$	{13789, 23458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:107	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{4}{289}\sqrt{854}e^{13}, \frac{28}{289}\sqrt{2}e^{15} + \frac{4}{289}\sqrt{805}e^{24},$ $\frac{28}{289}\sqrt{3}e^{16} + \frac{28}{289}\sqrt{3}e^{34}$	$(-\frac{42}{289}, \frac{66}{289}, \frac{52}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, -\frac{4}{289}, -\frac{18}{289})$ $-\frac{4}{289}\sqrt{903}e^3 \otimes e_8 + \frac{8}{289}\sqrt{238}e^2 \otimes e_7$	{123469, 14578, 289, 3567}
941:107	$0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{4}{289}\sqrt{854}e^{13}, \frac{28}{289}\sqrt{2}e^{15} + \frac{4}{289}\sqrt{805}e^{24},$ $\frac{28}{289}\sqrt{3}e^{16} + \frac{28}{289}\sqrt{3}e^{34}$	$(-\frac{42}{289}, \frac{66}{289}, \frac{52}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{24}{289}, \frac{10}{289}, -\frac{4}{289}, -\frac{18}{289})$ $+\frac{4}{289}\sqrt{903}e^3 \otimes e_8 + \frac{8}{289}\sqrt{238}e^2 \otimes e_7$	{123469, 14578, 289, 3567}
941:107	$0, 0, 0, 0, 0, \frac{3}{85}\sqrt{30}e^{12}, \frac{24}{85}\sqrt{3}e^{13}, \frac{3}{85}\sqrt{138}e^{15} + \frac{36}{85}e^{24},$ $\frac{12}{85}\sqrt{6}e^{16} + \frac{9}{85}\sqrt{6}e^{34}$	$(\frac{18}{85}, -\frac{21}{85}, -\frac{3}{17}, \frac{6}{17}, -\frac{9}{85}, -\frac{3}{85}, \frac{3}{85}, \frac{9}{17}, \frac{3}{17})$ $+\frac{12}{85}\sqrt{15}e^1 \otimes e_5 + \frac{3}{85}\sqrt{222}e^4 \otimes e_7$	{12349, 357}
941:107	$0, 0, 0, 0, 0, \frac{6}{253}\sqrt{767}e^{12}, \frac{2}{253}\sqrt{6195}e^{13}, \frac{1}{253}\sqrt{30090}e^{15} + \frac{2}{253}\sqrt{3009}e^{24},$ $\frac{1}{253}\sqrt{38586}e^{16} + \frac{59}{253}\sqrt{6}e^{34}$	$(\frac{81}{253}, -\frac{76}{253}, \frac{25}{253}, \frac{61}{253}, -\frac{96}{253}, \frac{5}{253}, \frac{106}{253}, -\frac{15}{253}, \frac{86}{253})$ $+\frac{1}{253}\sqrt{76818}e^1 \otimes e_5$	{12349, 136, 2345679, 357}
941:107	$0, 0, 0, 0, 0, \frac{6}{731}\sqrt{17}e^{12}, \frac{2}{731}\sqrt{303}e^{13}, \frac{2}{731}\sqrt{291}e^{15} + \frac{4}{731}\sqrt{65}e^{24},$ $\frac{20}{731}\sqrt{2}e^{16} + \frac{8}{731}\sqrt{15}e^{34}$	$(\frac{7}{731}, -\frac{11}{731}, -\frac{20}{731}, \frac{23}{731}, \frac{5}{731}, -\frac{4}{731}, -\frac{13}{731}, \frac{12}{731}, \frac{3}{731})$ $+\frac{2}{731}\sqrt{329}e^1 \otimes e_5 + \frac{2}{731}\sqrt{359}e^2 \otimes e_7$	{12349, 357}
941:107	$0, 0, 0, 0, 0, \frac{1}{335}\sqrt{33410}e^{12}, \frac{4}{335}\sqrt{4883}e^{13},$ $\frac{1}{335}\sqrt{27242}e^{15} + \frac{12}{335}\sqrt{514}e^{24}, \frac{4}{335}\sqrt{771}e^{16} + \frac{1}{335}\sqrt{10794}e^{34}$	$(\frac{38}{335}, -\frac{31}{335}, -\frac{25}{67}, \frac{34}{67}, \frac{101}{77}, \frac{37}{77}, -\frac{87}{335}, \frac{139}{335}, \frac{9}{67})$ $+\frac{1}{335}\sqrt{147518}e^4 \otimes e_7$	{13458, 17, 23789, 2459}
941:108	$0, 0, 0, 0, 0, \frac{1}{317}\sqrt{23739}e^{12}, \frac{1}{317}\sqrt{44390}e^{13},$ $\frac{1}{317}\sqrt{21230}e^{14} + \frac{1}{317}\sqrt{27985}e^{25}, \frac{1}{317}\sqrt{35898}e^{26} + \frac{1}{317}\sqrt{13317}e^{34}$	$(-\frac{72}{317}, \frac{90}{317}, -\frac{31}{317}, \frac{139}{317}, -\frac{23}{317}, \frac{18}{317}, -\frac{103}{317}, \frac{67}{317}, \frac{108}{317})$ $+\frac{1}{317}\sqrt{103255}e^2 \otimes e_7$	{123489, 1679, 2456, 3578}
941:108	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{114526}e^{12}, \frac{2}{803}\sqrt{21515}e^{13},$ $\frac{4}{803}\sqrt{3310}e^{14} + \frac{2}{803}\sqrt{69510}e^{25}, \frac{2}{803}\sqrt{119822}e^{26} + \frac{2}{803}\sqrt{24163}e^{34}$	$(-\frac{203}{803}, \frac{305}{803}, \frac{256}{803}, \frac{151}{803}, -\frac{357}{803}, \frac{102}{803}, \frac{53}{803}, -\frac{52}{803}, \frac{37}{73})$ $+\frac{2}{803}\sqrt{226735}e^2 \otimes e_5$	{123479, 1345679, 236, 35}
941:108	$0, 0, 0, 0, 0, \frac{32}{905}\sqrt{11}e^{12}, \frac{32}{905}\sqrt{154}e^{13}, \frac{32}{905}\sqrt{55}e^{14} + \frac{96}{905}\sqrt{22}e^{25},$ $\frac{32}{905}\sqrt{11}e^{26} + \frac{32}{905}\sqrt{143}e^{34}$	$(-\frac{16}{181}, \frac{176}{905}, \frac{352}{905}, -\frac{16}{181}, -\frac{336}{905}, \frac{96}{905}, \frac{272}{905}, -\frac{32}{181}, \frac{272}{905})$ $+\frac{512}{905}e^2 \otimes e_5 + \frac{96}{905}\sqrt{59}e^3 \otimes e_8$	{12678, 1578, 2489, 45689}
941:108	$0, 0, 0, 0, 0, \frac{32}{905}\sqrt{11}e^{12}, \frac{32}{905}\sqrt{154}e^{13}, \frac{32}{905}\sqrt{55}e^{14} + \frac{96}{905}\sqrt{22}e^{25},$ $\frac{32}{905}\sqrt{11}e^{26} + \frac{32}{905}\sqrt{143}e^{34}$	$(-\frac{16}{181}, \frac{176}{905}, \frac{352}{905}, -\frac{16}{181}, -\frac{336}{905}, \frac{96}{905}, \frac{272}{905}, -\frac{32}{181}, \frac{272}{905})$ $+\frac{512}{905}e^2 \otimes e_5 - \frac{96}{905}\sqrt{59}e^3 \otimes e_8$	{12678, 1578, 2489, 45689}
941:108	$0, 0, 0, 0, 0, \frac{16}{865}\sqrt{127}e^{12}, \frac{16}{865}\sqrt{134}e^{13}, \frac{16}{865}\sqrt{53}e^{14} + \frac{16}{865}\sqrt{374}e^{25},$ $\frac{16}{865}\sqrt{77}e^{26} + \frac{16}{865}\sqrt{287}e^{34}$	$(\frac{24}{173}, -\frac{96}{865}, \frac{88}{865}, -\frac{32}{173}, \frac{56}{865}, \frac{24}{865}, \frac{208}{865}, -\frac{8}{173}, -\frac{72}{865})$ $+\frac{16}{865}\sqrt{435}e^3 \otimes e_8 + \frac{32}{865}\sqrt{89}e^5 \otimes e_9$	{1246789, 139, 23457, 568}
941:108	$0, 0, 0, 0, 0, \frac{16}{865}\sqrt{127}e^{12}, \frac{16}{865}\sqrt{134}e^{13}, \frac{16}{865}\sqrt{53}e^{14} + \frac{16}{865}\sqrt{374}e^{25},$ $\frac{16}{865}\sqrt{77}e^{26} + \frac{16}{865}\sqrt{287}e^{34}$	$(\frac{24}{173}, -\frac{96}{865}, \frac{88}{865}, -\frac{32}{173}, \frac{56}{865}, \frac{24}{865}, \frac{208}{865}, -\frac{8}{173}, -\frac{72}{865})$ $-\frac{16}{865}\sqrt{435}e^3 \otimes e_8 + \frac{32}{865}\sqrt{89}e^5 \otimes e_9$	{1246789, 139, 23457, 568}
941:108	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{106}e^{12}, \frac{1}{125}\sqrt{106}e^{13}, \frac{1}{125}\sqrt{4982}e^{14} + \frac{2}{125}\sqrt{2438}e^{25},$ $\frac{2}{125}\sqrt{583}e^{26} + \frac{2}{125}\sqrt{2438}e^{34}$	$(\frac{9}{25}, -\frac{36}{125}, -\frac{1}{5}, -\frac{2}{125}, \frac{79}{125}, \frac{9}{125}, \frac{4}{25}, \frac{43}{125}, -\frac{27}{125})$ $+\frac{1}{125}\sqrt{22154}e^5 \otimes e_9$	{1256, 134578, 2389, 4679}
941:108	$0, 0, 0, 0, 0, \frac{13}{785}\sqrt{202}e^{12}, \frac{13}{785}\sqrt{310}e^{13}, \frac{13}{785}\sqrt{22}e^{14} + \frac{26}{785}\sqrt{166}e^{25},$ $\frac{26}{785}\sqrt{23}e^{26} + \frac{26}{785}\sqrt{230}e^{34}$	$(\frac{13}{157}, -\frac{52}{785}, -\frac{221}{785}, \frac{182}{785}, \frac{299}{785}, \frac{13}{785}, -\frac{156}{785}, \frac{247}{785}, -\frac{39}{785})$ $+\frac{13}{785}\sqrt{1514}e^5 \otimes e_9 + \frac{208}{785}\sqrt{5}e^4 \otimes e_7$	{12567, 13458, 23789, 469}
941:108	$0, 0, 0, 0, 0, \frac{13}{785}\sqrt{202}e^{12}, \frac{13}{785}\sqrt{310}e^{13}, \frac{13}{785}\sqrt{22}e^{14} + \frac{26}{785}\sqrt{166}e^{25},$ $\frac{26}{785}\sqrt{23}e^{26} + \frac{26}{785}\sqrt{230}e^{34}$	$(\frac{13}{157}, -\frac{52}{785}, -\frac{221}{785}, \frac{182}{785}, \frac{299}{785}, \frac{13}{785}, -\frac{156}{785}, \frac{247}{785}, -\frac{39}{785})$ $+\frac{13}{785}\sqrt{1514}e^5 \otimes e_9 - \frac{208}{785}\sqrt{5}e^4 \otimes e_7$	{12567, 13458, 23789, 469}
941:109	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{798}e^{12}, \frac{3}{259}\sqrt{23}e^{13}, \frac{3}{259}\sqrt{861}e^{15} + \frac{3}{259}\sqrt{714}e^{24},$ $\frac{6}{37}e^{26} + \frac{3}{259}\sqrt{182}e^{34}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+\frac{3}{259}\sqrt{1435}e^5 \otimes e_7 + \frac{3}{259}\sqrt{1883}e^3 \otimes e_8$	{1359, 14789, 2347, 258}
941:109	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{798}e^{12}, \frac{3}{259}\sqrt{23}e^{13}, \frac{3}{259}\sqrt{861}e^{15} + \frac{3}{259}\sqrt{714}e^{24},$ $\frac{6}{37}e^{26} + \frac{3}{259}\sqrt{182}e^{34}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $-\frac{3}{259}\sqrt{1435}e^5 \otimes e_7 + \frac{3}{259}\sqrt{1883}e^3 \otimes e_8$	{1359, 14789, 2347, 258}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:109	$0, 0, 0, 0, 0, \frac{22}{2361}\sqrt{6670}e^{12}, \frac{8}{2361}\sqrt{59455}e^{13},$ $\frac{2}{787}\sqrt{48070}e^{15} + \frac{2}{2361}\sqrt{46805}e^{24}, \frac{10}{2361}\sqrt{9361}e^{26} + \frac{2}{2361}\sqrt{241615}e^{34}$	$(\frac{1313}{2361}, -\frac{153}{787}, -\frac{160}{2361}, \frac{185}{787}, -\frac{1217}{2361}, \frac{854}{2361}, \frac{1153}{2361}, \frac{32}{787}, \frac{395}{2361})$ $+ \frac{140}{2361}\sqrt{506}e^1 \otimes e_5$	{12349, 1679, 2456, 357}
941:109	$0, 0, 0, 0, 0, \frac{156}{2077}e^{12}, \frac{26}{2077}\sqrt{254}e^{13}, \frac{52}{2077}\sqrt{227}e^{15} + \frac{26}{2077}\sqrt{357}e^{24},$ $\frac{26}{2077}\sqrt{309}e^{26} + \frac{26}{2077}\sqrt{793}e^{34}$	$(-\frac{429}{2077}, \frac{273}{2077}, \frac{364}{2077}, -\frac{247}{2077}, \frac{455}{2077}, -\frac{156}{2077}, -\frac{65}{2077}, \frac{26}{2077}, \frac{117}{2077})$ $+ \frac{26}{2077}\sqrt{1174}e^5 \otimes e_9 + \frac{26}{2077}\sqrt{714}e^3 \otimes e_8$	{13457, 239}
941:109	$0, 0, 0, 0, 0, \frac{22}{653}\sqrt{58}e^{12}, \frac{22}{653}\sqrt{178}e^{13}, \frac{44}{653}\sqrt{79}e^{15} + \frac{22}{653}\sqrt{237}e^{24},$ $\frac{22}{653}\sqrt{177}e^{26} + \frac{66}{653}\sqrt{33}e^{34}$	$(-\frac{121}{653}, \frac{77}{653}, -\frac{44}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{165}{653}, \frac{154}{653}, \frac{33}{653})$ $+ \frac{22}{653}\sqrt{62}e^4 \otimes e_7 + \frac{44}{653}\sqrt{129}e^5 \otimes e_9$	{12489, 136789, 234568, 578}
941:109	$0, 0, 0, 0, 0, \frac{22}{653}\sqrt{58}e^{12}, \frac{22}{653}\sqrt{178}e^{13}, \frac{44}{653}\sqrt{79}e^{15} + \frac{22}{653}\sqrt{237}e^{24},$ $\frac{22}{653}\sqrt{177}e^{26} + \frac{66}{653}\sqrt{33}e^{34}$	$(-\frac{121}{653}, \frac{77}{653}, -\frac{44}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, -\frac{165}{653}, \frac{154}{653}, \frac{33}{653})$ $- \frac{22}{653}\sqrt{62}e^4 \otimes e_7 + \frac{44}{653}\sqrt{129}e^5 \otimes e_9$	{12489, 136789, 234568, 578}
941:109	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{619}e^{12}, \frac{7}{1741}\sqrt{1645}e^{13},$ $\frac{7}{1741}\sqrt{1007}e^{15} + \frac{7}{1741}\sqrt{987}e^{24}, \frac{7}{1741}\sqrt{793}e^{26} + \frac{7}{1741}\sqrt{1065}e^{34}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{7}{1741}\sqrt{1181}e^1 \otimes e_5 - \frac{7}{1741}\sqrt{2071}e^2 \otimes e_7$	{12349, 1679, 2456, 357}
941:109	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{619}e^{12}, \frac{7}{1741}\sqrt{1645}e^{13},$ $\frac{7}{1741}\sqrt{1007}e^{15} + \frac{7}{1741}\sqrt{987}e^{24}, \frac{7}{1741}\sqrt{793}e^{26} + \frac{7}{1741}\sqrt{1065}e^{34}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{7}{1741}\sqrt{1181}e^1 \otimes e_5 + \frac{7}{1741}\sqrt{2071}e^2 \otimes e_7$	{12349, 1679, 2456, 357}
941:109	$0, 0, 0, 0, 0, \frac{24}{2305}\sqrt{866}e^{12}, \frac{4}{2305}\sqrt{89198}e^{13},$ $\frac{4}{2305}\sqrt{141158}e^{15} + \frac{6}{2305}\sqrt{51527}e^{24}, \frac{2}{2305}\sqrt{320853}e^{26} + \frac{2}{2305}\sqrt{499249}e^{34}$	$(-\frac{99}{461}, \frac{63}{461}, -\frac{56}{2305}, \frac{191}{2305}, \frac{1001}{2305}, -\frac{36}{461}, -\frac{551}{2305}, \frac{506}{2305}, \frac{27}{461})$ $+ \frac{8}{2305}\sqrt{54991}e^5 \otimes e_9$	{12489, 136789, 234568, 578}
941:109	$0, 0, 0, 0, 0, \frac{4}{2377}\sqrt{110553}e^{12}, \frac{4}{2377}\sqrt{142262}e^{13},$ $\frac{4}{2377}\sqrt{105411}e^{15} + \frac{2}{2377}\sqrt{645321}e^{24}, \frac{2}{2377}\sqrt{228819}e^{26} + \frac{2}{2377}\sqrt{350513}e^{34}$	$(-\frac{279}{2377}, \frac{391}{2377}, \frac{1304}{2377}, -\frac{801}{2377}, -\frac{131}{2377}, \frac{112}{2377}, \frac{1025}{2377}, -\frac{410}{2377}, \frac{503}{2377})$ $+ \frac{24}{2377}\sqrt{11998}e^3 \otimes e_8$	{1359, 14789, 2347, 258}
941:109	$0, 0, 0, 0, 0, \frac{156}{2077}e^{12}, \frac{52}{2077}\sqrt{230}e^{13}, \frac{26}{2077}\sqrt{266}e^{15} + \frac{26}{2077}\sqrt{817}e^{24},$ $\frac{26}{2077}\sqrt{309}e^{26} + \frac{26}{2077}\sqrt{381}e^{34}$	$(-\frac{429}{2077}, \frac{273}{2077}, \frac{364}{2077}, -\frac{247}{2077}, \frac{455}{2077}, -\frac{156}{2077}, -\frac{65}{2077}, \frac{26}{2077}, \frac{117}{2077})$ $+ \frac{26}{2077}\sqrt{1174}e^2 \otimes e_7 + \frac{26}{2077}\sqrt{714}e^3 \otimes e_8$	{14578, 289}
941:109	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{46}e^{12}, \frac{4}{127}\sqrt{299}e^{13}, \frac{2}{127}\sqrt{598}e^{15} + \frac{2}{127}\sqrt{897}e^{24},$ $\frac{6}{127}\sqrt{23}e^{26} + \frac{2}{127}\sqrt{23}e^{34}$	$(\frac{35}{127}, -\frac{17}{127}, -\frac{40}{127}, \frac{41}{127}, -\frac{11}{127}, \frac{18}{127}, -\frac{5}{127}, \frac{24}{127}, \frac{1}{127})$ $- \frac{4}{127}\sqrt{391}e^4 \otimes e_7 + \frac{8}{127}\sqrt{69}e^1 \otimes e_5$	{123469, 179, 245, 3567}
941:109	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{46}e^{12}, \frac{4}{127}\sqrt{299}e^{13}, \frac{2}{127}\sqrt{598}e^{15} + \frac{2}{127}\sqrt{897}e^{24},$ $\frac{6}{127}\sqrt{23}e^{26} + \frac{2}{127}\sqrt{23}e^{34}$	$(\frac{35}{127}, -\frac{17}{127}, -\frac{40}{127}, \frac{41}{127}, -\frac{11}{127}, \frac{18}{127}, -\frac{5}{127}, \frac{24}{127}, \frac{1}{127})$ $+ \frac{4}{127}\sqrt{391}e^4 \otimes e_7 + \frac{8}{127}\sqrt{69}e^1 \otimes e_5$	{123469, 179, 245, 3567}
941:109	$0, 0, 0, 0, 0, \frac{24}{2305}\sqrt{866}e^{12}, \frac{4}{2305}\sqrt{130766}e^{13},$ $\frac{4}{2305}\sqrt{78806}e^{15} + \frac{62}{2305}\sqrt{433}e^{24}, \frac{2}{2305}\sqrt{320853}e^{26} + \frac{2}{2305}\sqrt{380607}e^{34}$	$(-\frac{99}{461}, \frac{63}{461}, -\frac{56}{2305}, \frac{191}{2305}, \frac{1001}{2305}, -\frac{36}{461}, -\frac{551}{2305}, \frac{506}{2305}, \frac{27}{461})$ $+ \frac{8}{2305}\sqrt{54991}e^2 \otimes e_7$	{12349, 1679, 2456, 357}
941:109	$0, 0, 0, 0, 0, \frac{48}{2609}\sqrt{85}e^{12}, \frac{48}{2609}\sqrt{795}e^{13},$ $\frac{48}{2609}\sqrt{146}e^{15} + \frac{48}{2609}\sqrt{530}e^{24}, \frac{96}{2609}\sqrt{34}e^{26} + \frac{48}{2609}\sqrt{163}e^{34}$	$(\frac{360}{2609}, -\frac{24}{2609}, \frac{720}{2609}, -\frac{408}{2609}, -\frac{792}{2609}, \frac{336}{2609}, \frac{1080}{2609}, -\frac{432}{2609}, \frac{312}{2609})$ $+ \frac{336}{2609}\sqrt{19}e^1 \otimes e_5 + \frac{48}{2609}\sqrt{1393}e^3 \otimes e_8$	{14789, 258}
941:110	$0, 0, 0, 0, 0, \frac{30}{101}e^{12}, \frac{15}{101}\sqrt{2}e^{13}, \frac{6}{101}\sqrt{14}e^{15} + \frac{3}{101}\sqrt{106}e^{34},$ $\frac{6}{101}\sqrt{26}e^{14} + \frac{18}{101}\sqrt{3}e^{26}$	$(\frac{3}{101}, \frac{6}{101}, -\frac{15}{101}, \frac{12}{101}, -\frac{6}{101}, \frac{9}{101}, -\frac{12}{101}, -\frac{3}{101}, \frac{15}{101})$ $+ \frac{3}{101}\sqrt{194}e^2 \otimes e_8 + \frac{9}{101}\sqrt{2}e^1 \otimes e_5$	{1234579, 2346}
941:110	$0, 0, 0, 0, 0, \frac{81}{569}e^{12}, \frac{9}{1138}\sqrt{1234}e^{13}, \frac{9}{569}\sqrt{215}e^{15} + \frac{18}{569}\sqrt{67}e^{34},$ $\frac{9}{1138}\sqrt{962}e^{14} + \frac{18}{569}\sqrt{34}e^{26}$	$(-\frac{81}{569}, \frac{18}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, -\frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $+ \frac{9}{1138}\sqrt{1958}e^4 \otimes e_7 + \frac{18}{1138}\sqrt{2230}e^3 \otimes e_9$	{12346, 134, 2489, 4689}
941:110	$0, 0, 0, 0, 0, \frac{81}{569}e^{12}, \frac{9}{1138}\sqrt{1234}e^{13}, \frac{9}{569}\sqrt{215}e^{15} + \frac{18}{569}\sqrt{67}e^{34},$ $\frac{9}{1138}\sqrt{962}e^{14} + \frac{18}{569}\sqrt{34}e^{26}$	$(-\frac{81}{569}, \frac{18}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, -\frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $- \frac{9}{1138}\sqrt{1958}e^4 \otimes e_7 + \frac{18}{1138}\sqrt{2230}e^3 \otimes e_9$	{12346, 134, 2489, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:110	$0, 0, 0, 0, 0, \frac{41}{4669}\sqrt{1538e^{12}}, \frac{82}{4669}\sqrt{399e^{13}},$ $\frac{656}{4669}\sqrt{3e^{15}} + \frac{82}{4669}\sqrt{29e^{34}}, \frac{41}{4669}\sqrt{946e^{14}} + \frac{82}{4669}\sqrt{857e^{26}}$	$(-\frac{41}{203}, \frac{533}{4669}, -\frac{205}{4669}, \frac{1066}{4669}, \frac{1804}{4669}, -\frac{410}{4669}, -\frac{164}{667}, \frac{123}{667}, \frac{123}{4669})$ $+ \frac{41}{4669}\sqrt{3306e^5} \otimes e_9 + \frac{41}{4669}\sqrt{4962e^2} \otimes e_7$	{123489, 34578}
941:110	$0, 0, 0, 0, 0, \frac{319}{7413}\sqrt{22e^{12}}, \frac{29}{7413}\sqrt{510e^{13}},$ $\frac{58}{7413}\sqrt{527e^{15}} + \frac{29}{7413}\sqrt{2302e^{34}}, \frac{290}{2471}\sqrt{2e^{14}} + \frac{29}{7413}\sqrt{5542e^{26}}$	$(-\frac{319}{2471}, \frac{232}{7413}, \frac{116}{2471}, \frac{464}{7413}, \frac{1769}{7413}, -\frac{725}{7413}, -\frac{29}{353}, \frac{116}{1059}, -\frac{493}{7413})$ $+ \frac{29}{7413}\sqrt{6158e^3} \otimes e_9 + \frac{29}{7413}\sqrt{7238e^2} \otimes e_7$	{1456789, 3457}
941:110	$0, 0, 0, 0, 0, \frac{2}{259}\sqrt{570e^{12}}, \frac{2}{259}\sqrt{6555e^{13}}, \frac{2}{259}\sqrt{3705e^{15}} + \frac{2}{259}\sqrt{6270e^{34}},$ $\frac{2}{259}\sqrt{2945e^{14}} + \frac{76}{259}\sqrt{5e^{26}}$	$(-\frac{12}{259}, -\frac{27}{259}, \frac{124}{259}, -\frac{54}{259}, \frac{82}{259}, -\frac{39}{259}, \frac{16}{37}, \frac{10}{37}, -\frac{66}{259})$ $+ \frac{12}{259}\sqrt{570e^3} \otimes e_9$	{12346, 134, 2489, 4689}
941:110	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{8738e^{12}}, \frac{6}{541}\sqrt{3855e^{13}},$ $\frac{2}{541}\sqrt{23901e^{15}} + \frac{2}{541}\sqrt{30326e^{34}}, \frac{2}{541}\sqrt{37265e^{14}} + \frac{4}{541}\sqrt{1285e^{26}}$	$(-\frac{68}{541}, \frac{139}{541}, -\frac{168}{541}, \frac{278}{541}, \frac{178}{541}, \frac{71}{541}, -\frac{236}{541}, \frac{110}{541}, \frac{210}{541})$ $+ \frac{4}{541}\sqrt{29298e^4} \otimes e_7$	{12679, 179, 2378, 3678}
941:110	$0, 0, 0, 0, 0, \frac{92}{3777}\sqrt{69e^{12}}, \frac{46}{3777}\sqrt{1015e^{13}},$ $\frac{46}{3777}\sqrt{691e^{15}} + \frac{92}{3777}\sqrt{93e^{34}}, \frac{230}{3777}\sqrt{31e^{14}} + \frac{184}{3777}\sqrt{30e^{26}}$	$(\frac{184}{1259}, -\frac{391}{3777}, \frac{276}{1259}, -\frac{782}{3777}, -\frac{506}{3777}, \frac{161}{1259}, \frac{460}{3777}, \frac{46}{3777}, -\frac{230}{3777})$ $+ \frac{230}{3777}\sqrt{74e^3} \otimes e_9 + \frac{46}{3777}\sqrt{1562e^1} \otimes e_5$	{1279, 1679}
941:110	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{55e^{12}}, \frac{2}{111}\sqrt{2145e^{13}}, \frac{2}{111}\sqrt{2145e^{15}} + \frac{8}{111}\sqrt{55e^{34}},$ $\frac{2}{111}\sqrt{715e^{14}} + \frac{10}{111}\sqrt{22e^{26}}$	$(-\frac{32}{111}, \frac{23}{111}, -\frac{2}{37}, \frac{46}{111}, \frac{24}{37}, -\frac{3}{37}, -\frac{38}{111}, \frac{40}{111}, \frac{14}{111})$ $+ \frac{2}{111}\sqrt{5170e^5} \otimes e_7$	{12356, 12678, 135, 178, 2379, 2589, 3679, 5689}
941:110	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{55e^{12}}, \frac{2}{111}\sqrt{2145e^{13}}, \frac{2}{111}\sqrt{2145e^{15}} + \frac{8}{111}\sqrt{55e^{34}},$ $\frac{2}{111}\sqrt{715e^{14}} + \frac{10}{111}\sqrt{22e^{26}}$	$(-\frac{32}{111}, \frac{23}{111}, -\frac{2}{37}, \frac{46}{111}, \frac{24}{37}, -\frac{3}{37}, -\frac{38}{111}, \frac{40}{111}, \frac{14}{111})$ $- \frac{2}{111}\sqrt{5170e^5} \otimes e_7$	{12356, 12678, 135, 178, 2379, 2589, 3679, 5689}
941:110	$0, 0, 0, 0, 0, \frac{100}{621}\sqrt{3e^{12}}, \frac{50}{621}\sqrt{39e^{13}}, \frac{10}{621}\sqrt{195e^{15}} + \frac{20}{621}\sqrt{55e^{34}},$ $\frac{10}{621}\sqrt{65e^{14}} + \frac{10}{621}\sqrt{610e^{26}}$	$(-\frac{40}{207}, \frac{5}{621}, \frac{140}{621}, \frac{10}{621}, \frac{10}{621}, -\frac{5}{27}, \frac{20}{621}, \frac{50}{207}, -\frac{110}{621})$ $- \frac{110}{621}\sqrt{10e^5} \otimes e_7 + \frac{20}{621}\sqrt{390e^3} \otimes e_9$	{123456, 1345, 24589, 45689}
941:110	$0, 0, 0, 0, 0, \frac{100}{621}\sqrt{3e^{12}}, \frac{50}{621}\sqrt{39e^{13}}, \frac{10}{621}\sqrt{195e^{15}} + \frac{20}{621}\sqrt{55e^{34}},$ $\frac{10}{621}\sqrt{65e^{14}} + \frac{10}{621}\sqrt{610e^{26}}$	$(-\frac{40}{207}, \frac{5}{621}, \frac{140}{621}, \frac{10}{621}, \frac{10}{621}, -\frac{5}{27}, \frac{20}{621}, \frac{50}{207}, -\frac{110}{621})$ $+ \frac{110}{621}\sqrt{10e^5} \otimes e_7 + \frac{20}{621}\sqrt{390e^3} \otimes e_9$	{123456, 1345, 24589, 45689}
941:110	$0, 0, 0, 0, 0, \frac{2}{907}\sqrt{43662e^{12}}, \frac{2}{907}\sqrt{21831e^{13}},$ $\frac{2}{907}\sqrt{125241e^{15}} + \frac{2}{907}\sqrt{43662e^{34}}, \frac{2}{907}\sqrt{80813e^{14}} + \frac{4}{907}\sqrt{22214e^{26}}$	$(-\frac{228}{907}, \frac{21}{907}, \frac{310}{907}, \frac{42}{907}, \frac{580}{907}, -\frac{207}{907}, \frac{82}{907}, \frac{352}{907}, -\frac{186}{907})$ $+ \frac{32}{907}\sqrt{1149e^5} \otimes e_9$	{12456, 145, 2479, 4679}
941:110	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{30326e^{12}}, \frac{6}{541}\sqrt{3855e^{13}},$ $\frac{2}{541}\sqrt{23901e^{15}} + \frac{2}{541}\sqrt{8738e^{34}}, \frac{2}{541}\sqrt{37265e^{14}} + \frac{4}{541}\sqrt{1285e^{26}}$	$(\frac{236}{541}, -\frac{13}{541}, -\frac{16}{541}, -\frac{26}{541}, -\frac{278}{541}, \frac{223}{541}, \frac{220}{541}, -\frac{42}{541}, \frac{210}{541})$ $+ \frac{4}{541}\sqrt{29298e^1} \otimes e_5$	{1247, 1467, 24569, 459}
941:110	$0, 0, 0, 0, 0, \frac{3}{4781}\sqrt{3238e^{12}}, \frac{6}{4781}\sqrt{197e^{13}},$ $\frac{6}{4781}\sqrt{311e^{15}} + \frac{6}{4781}\sqrt{997e^{34}}, \frac{3}{4781}\sqrt{2858e^{14}} + \frac{18}{4781}\sqrt{115e^{26}}$	$(\frac{81}{4781}, -\frac{33}{4781}, \frac{24}{4781}, -\frac{66}{4781}, -\frac{123}{4781}, \frac{48}{4781}, \frac{15}{683}, -\frac{6}{683}, \frac{15}{4781})$ $+ \frac{3}{4781}\sqrt{6314e^2} \otimes e_8 + \frac{45}{4781}\sqrt{10e^3} \otimes e_9$	{14689, 2346}
941:110	$0, 0, 0, 0, 0, \frac{52}{781}\sqrt{30e^{12}}, \frac{26}{781}\sqrt{119e^{13}}, \frac{26}{781}\sqrt{58e^{15}} + \frac{26}{781}\sqrt{2e^{34}},$ $\frac{13}{781}\sqrt{122e^{14}} + \frac{13}{781}\sqrt{366e^{26}}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{39}{781}, \frac{195}{781})$ $+ \frac{13}{781}\sqrt{586e^1} \otimes e_5 + \frac{13}{781}\sqrt{830e^2} \otimes e_7$	{12349, 3457}
941:110	$0, 0, 0, 0, 0, \frac{12}{187}\sqrt{22e^{12}}, \frac{6}{187}\sqrt{38e^{13}}, \frac{12}{187}\sqrt{11e^{15}} + \frac{12}{187}\sqrt{22e^{34}},$ $\frac{6}{187}\sqrt{83e^{14}} + \frac{18}{187}\sqrt{10e^{26}}$	$(\frac{12}{187}, \frac{9}{187}, -\frac{27}{187}, \frac{18}{187}, -\frac{21}{187}, \frac{21}{187}, -\frac{15}{187}, -\frac{9}{187}, \frac{30}{187})$ $+ \frac{12}{187}\sqrt{41e^2} \otimes e_8$	{1234579, 14689, 2346, 4578}
941:110	$0, 0, 0, 0, 0, \frac{4}{2813}\sqrt{205343e^{12}}, \frac{8}{2813}\sqrt{45543e^{13}},$ $\frac{94}{2813}\sqrt{102e^{15}} + \frac{4}{2813}\sqrt{46342e^{34}}, \frac{34}{2813}\sqrt{2491e^{14}} + \frac{2}{2813}\sqrt{989162e^{26}}$	$(-\frac{332}{2813}, \frac{547}{2813}, -\frac{719}{2813}, \frac{1094}{2813}, \frac{707}{2813}, \frac{215}{2813}, -\frac{1051}{2813}, \frac{375}{2813}, \frac{762}{2813})$ $+ \frac{4}{2813}\sqrt{477003e^2} \otimes e_7$	{12349, 1456789, 2468, 3457}
941:110	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{10e^{12}}, \frac{2}{33}\sqrt{43e^{13}}, \frac{2}{33}\sqrt{33e^{15}} + \frac{2}{33}\sqrt{10e^{34}},$ $\frac{14}{33}e^{14} + \frac{4}{33}\sqrt{3e^{26}}$	$(\frac{4}{33}, \frac{1}{11}, -\frac{8}{33}, \frac{2}{11}, -\frac{2}{11}, \frac{7}{33}, -\frac{4}{33}, -\frac{2}{33}, \frac{10}{33})$ $+ \frac{4}{33}\sqrt{19e^1} \otimes e_5 + \frac{4}{33}\sqrt{19e^4} \otimes e_7$	{1234, 1346}
941:110	$0, 0, 0, 0, 0, \frac{3}{101}\sqrt{106e^{12}}, \frac{15}{101}\sqrt{2e^{13}}, \frac{6}{101}\sqrt{14e^{15}} + \frac{30}{101}e^{34},$ $\frac{6}{101}\sqrt{26e^{14}} + \frac{18}{101}\sqrt{3e^{26}}$	$(\frac{9}{101}, \frac{3}{101}, -\frac{12}{101}, \frac{6}{101}, -\frac{15}{101}, \frac{12}{101}, -\frac{3}{101}, -\frac{6}{101}, \frac{15}{101})$ $+ \frac{3}{101}\sqrt{194e^2} \otimes e_8 + \frac{9}{101}\sqrt{2e^4} \otimes e_7$	{1234579, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:110	$0, 0, 0, 0, 0, \frac{3}{1603}\sqrt{3138}e^{12}, \frac{3}{1603}\sqrt{1722}e^{13},$ $\frac{6}{1603}\sqrt{651}e^{15} + \frac{3}{1603}\sqrt{3138}e^{34}, \frac{6}{1603}\sqrt{687}e^{14} + \frac{9}{1603}\sqrt{458}e^{26}$	$(-\frac{51}{1603}, \frac{48}{1603}, -\frac{75}{1603}, \frac{96}{1603}, \frac{72}{1603}, -\frac{3}{1603}, -\frac{18}{229}, \frac{3}{1603}, \frac{45}{1603})$ $+ \frac{3}{1603}\sqrt{6582}e^2 \otimes e_8 + \frac{9}{1603}\sqrt{230}e^5 \otimes e_9$	{14689, 4578}
941:110	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{12}{221}\sqrt{26}e^{13}, \frac{8}{221}\sqrt{78}e^{15} + \frac{4}{221}\sqrt{65}e^{34},$ $\frac{4}{221}\sqrt{767}e^{14} + \frac{4}{221}\sqrt{299}e^{26}$	$(-\frac{4}{17}, \frac{2}{17}, 0, \frac{4}{17}, \frac{8}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{4}{17}, 0)$ $+ \frac{4}{221}\sqrt{1209}e^4 \otimes e_7 + \frac{4}{221}\sqrt{1365}e^5 \otimes e_9$	{123456, 1345}
941:111	$0, 0, 0, 0, 0, \frac{14}{641}\sqrt{646}e^{12}, \frac{14}{641}\sqrt{834}e^{13}, \frac{126}{641}\sqrt{6}e^{14} + \frac{42}{641}\sqrt{46}e^{35},$ $\frac{14}{641}\sqrt{646}e^{16} + \frac{28}{641}\sqrt{174}e^{24}$	$(\frac{25}{641}, \frac{14}{641}, -\frac{171}{641}, \frac{50}{641}, \frac{246}{641}, \frac{39}{641}, -\frac{146}{641}, \frac{75}{641}, \frac{64}{641})$ $+ \frac{28}{641}\sqrt{301}e^4 \otimes e_7$	{126789, 178, 2379, 367}
941:111	$0, 0, 0, 0, 0, \frac{10}{703}\sqrt{1802}e^{12}, \frac{10}{703}\sqrt{5678}e^{13}, \frac{10}{703}\sqrt{323}e^{14} + \frac{340}{703}e^{35},$ $\frac{10}{703}\sqrt{1802}e^{16} + \frac{10}{703}\sqrt{1938}e^{24}$	$(\frac{8}{703}, \frac{103}{703}, \frac{23}{37}, \frac{16}{703}, -\frac{413}{703}, \frac{3}{19}, \frac{445}{703}, \frac{24}{703}, \frac{119}{703})$ $+ \frac{40}{703}\sqrt{629}e^3 \otimes e_5$	{12369, 125679, 13, 157}
941:111	$0, 0, 0, 0, 0, \frac{230}{2741}\sqrt{14}e^{12}, \frac{69}{2741}\sqrt{230}e^{13},$ $\frac{115}{2741}\sqrt{66}e^{14} + \frac{23}{2741}\sqrt{606}e^{35}, \frac{23}{2741}\sqrt{1914}e^{16} + \frac{23}{2741}\sqrt{2382}e^{24}$	$(-\frac{23}{2741}, \frac{460}{2741}, -\frac{552}{2741}, -\frac{46}{2741}, \frac{483}{2741}, \frac{437}{2741}, -\frac{575}{2741}, -\frac{69}{2741}, \frac{414}{2741})$ $+ \frac{23}{2741}\sqrt{1542}e^2 \otimes e_8 + \frac{46}{2741}\sqrt{895}e^4 \otimes e_7$	{178, 2379}
941:111	$0, 0, 0, 0, 0, \frac{2}{2273}\sqrt{67470}e^{12}, \frac{2}{2273}\sqrt{322818}e^{13},$ $\frac{2}{2273}\sqrt{413643}e^{14} + \frac{24}{2273}\sqrt{2941}e^{35}, \frac{2}{2273}\sqrt{268842}e^{16} + \frac{6}{2273}\sqrt{51554}e^{24}$	$(\frac{116}{2273}, -\frac{435}{2273}, \frac{835}{2273}, \frac{232}{2273}, -\frac{487}{2273}, -\frac{319}{2273}, \frac{951}{2273}, \frac{348}{2273}, -\frac{203}{2273})$ $+ \frac{108}{2273}\sqrt{346}e^3 \otimes e_9$	{123468, 145789, 23457, 469}
941:111	$0, 0, 0, 0, 0, \frac{1}{1153}\sqrt{572970}e^{12}, \frac{10}{1153}\sqrt{4035}e^{13},$ $\frac{5}{1153}\sqrt{8070}e^{14} + \frac{6}{1153}\sqrt{19099}e^{35}, \frac{2}{1153}\sqrt{13719}e^{16} + \frac{3}{1153}\sqrt{38198}e^{24}$	$(-\frac{74}{1153}, \frac{585}{1153}, \frac{14}{1153}, -\frac{148}{1153}, -\frac{236}{1153}, \frac{511}{1153}, -\frac{60}{1153}, -\frac{222}{1153}, \frac{437}{1153})$ $+ \frac{3}{1153}\sqrt{172698}e^2 \otimes e_8$	{13678, 1568, 23569, 2679}
941:111	$0, 0, 0, 0, 0, \frac{7}{23}\sqrt{3}e^{12}, \frac{3}{23}\sqrt{21}e^{13}, \frac{1}{23}\sqrt{105}e^{14} + \frac{2}{23}\sqrt{21}e^{35},$ $\frac{2}{23}\sqrt{35}e^{16} + \frac{2}{23}\sqrt{42}e^{24}$	$(\frac{1}{23}, 0, -\frac{6}{23}, \frac{2}{23}, \frac{9}{23}, \frac{1}{23}, -\frac{5}{23}, \frac{3}{23}, \frac{2}{23})$ $+ \frac{1}{23}\sqrt{21}e^5 \otimes e_9 + \frac{2}{23}\sqrt{70}e^4 \otimes e_7$	{126789, 2379}
941:111	$0, 0, 0, 0, 0, \frac{4}{75}\sqrt{10}e^{12}, \frac{1}{75}\sqrt{170}e^{13}, \frac{2}{15}e^{14} + \frac{2}{75}\sqrt{85}e^{35},$ $\frac{2}{25}\sqrt{5}e^{16} + \frac{1}{75}\sqrt{170}e^{24}$	$(0, \frac{1}{15}, -\frac{2}{15}, 0, \frac{2}{15}, \frac{1}{15}, -\frac{2}{15}, 0, \frac{1}{15})$ $+ \frac{1}{75}\sqrt{310}e^2 \otimes e_8 + \frac{1}{75}\sqrt{370}e^5 \otimes e_9$	{129, 578}
941:111	$0, 0, 0, 0, 0, \frac{34}{137}\sqrt{3}e^{12}, \frac{2}{137}\sqrt{2958}e^{13}, \frac{2}{137}\sqrt{1479}e^{14} + \frac{6}{137}\sqrt{17}e^{35},$ $\frac{2}{137}\sqrt{1122}e^{16} + \frac{6}{137}\sqrt{323}e^{24}$	$(-\frac{4}{137}, \frac{63}{137}, -\frac{35}{137}, -\frac{8}{137}, \frac{23}{137}, \frac{59}{137}, -\frac{39}{137}, -\frac{12}{137}, \frac{55}{137})$ $+ \frac{6}{137}\sqrt{663}e^2 \otimes e_7$	{123458, 146789, 2456, 3479}
941:111	$0, 0, 0, 0, 0, \frac{7}{283}\sqrt{237}e^{12}, \frac{7}{283}\sqrt{339}e^{13}, \frac{7}{283}\sqrt{555}e^{14} + \frac{84}{283}\sqrt{6}e^{35},$ $\frac{84}{283}\sqrt{5}e^{16} + \frac{84}{283}\sqrt{3}e^{24}$	$(\frac{31}{283}, -\frac{70}{283}, -\frac{46}{283}, \frac{62}{283}, \frac{139}{283}, -\frac{39}{283}, -\frac{15}{283}, \frac{93}{283}, -\frac{8}{283})$ $+ \frac{21}{283}\sqrt{161}e^5 \otimes e_9$	{129, 13567, 23689, 578}
941:111	$0, 0, 0, 0, 0, \frac{22}{827}\sqrt{13}e^{12}, \frac{22}{827}\sqrt{398}e^{13}, \frac{22}{827}\sqrt{119}e^{14} + \frac{22}{827}\sqrt{73}e^{35},$ $\frac{198}{827}\sqrt{2}e^{16} + \frac{22}{827}\sqrt{267}e^{24}$	$(-\frac{44}{827}, \frac{253}{827}, \frac{55}{827}, -\frac{88}{827}, -\frac{187}{827}, \frac{209}{827}, \frac{11}{827}, -\frac{132}{827}, \frac{165}{827})$ $+ \frac{176}{827}\sqrt{5}e^3 \otimes e_5 + \frac{22}{827}\sqrt{447}e^2 \otimes e_7$	{12369, 157}
941:111	$0, 0, 0, 0, 0, \frac{22}{3239}\sqrt{534}e^{12}, \frac{11}{3239}\sqrt{3246}e^{13},$ $\frac{11}{3239}\sqrt{366}e^{14} + \frac{66}{3239}\sqrt{6}e^{35}, \frac{77}{3239}\sqrt{26}e^{16} + \frac{253}{3239}\sqrt{6}e^{24}$	$(\frac{88}{3239}, -\frac{330}{3239}, -\frac{33}{3239}, \frac{176}{3239}, \frac{297}{3239}, -\frac{242}{3239}, \frac{55}{3239}, \frac{264}{3239}, -\frac{154}{3239})$ $+ \frac{11}{3239}\sqrt{2586}e^3 \otimes e_9 + \frac{11}{3239}\sqrt{3514}e^4 \otimes e_7$	{126789, 367}
941:111	$0, 0, 0, 0, 0, \frac{2}{249}\sqrt{3}e^{12}, \frac{2}{83}\sqrt{30}e^{13}, \frac{2}{249}\sqrt{231}e^{14} + \frac{2}{83}\sqrt{15}e^{35},$ $\frac{2}{249}\sqrt{30}e^{16} + \frac{2}{83}\sqrt{35}e^{24}$	$(-\frac{4}{249}, \frac{5}{83}, \frac{13}{249}, -\frac{8}{249}, -\frac{25}{249}, \frac{11}{249}, \frac{3}{83}, -\frac{4}{249}, \frac{7}{249})$ $+ \frac{16}{249}\sqrt{6}e^3 \otimes e_9 + \frac{2}{249}\sqrt{303}e^2 \otimes e_7$	{25689, 378}
941:111	$0, 0, 0, 0, 0, \frac{376}{3925}\sqrt{19}e^{12}, \frac{47}{3925}\sqrt{38}e^{13},$ $\frac{47}{3925}\sqrt{538}e^{14} + \frac{1363}{3925}\sqrt{2}e^{35}, \frac{47}{3925}\sqrt{326}e^{16} + \frac{47}{3925}\sqrt{1398}e^{24}$	$(-\frac{47}{785}, \frac{1504}{3925}, \frac{752}{3925}, -\frac{94}{785}, -\frac{1457}{3925}, \frac{1269}{3925}, \frac{517}{3925}, -\frac{141}{785}, \frac{1034}{3925})$ $+ \frac{141}{3925}\sqrt{514}e^2 \otimes e_8 + \frac{94}{3925}\sqrt{557}e^3 \otimes e_5$	{34789, 4589}
941:111	$0, 0, 0, 0, 0, \frac{9}{1597}\sqrt{870}e^{12}, \frac{90}{1597}\sqrt{6}e^{13},$ $\frac{27}{1597}\sqrt{170}e^{14} + \frac{36}{1597}\sqrt{219}e^{35}, \frac{324}{1597}e^{16} + \frac{9}{1597}\sqrt{2982}e^{24}$	$(-\frac{36}{1597}, \frac{135}{1597}, \frac{306}{1597}, -\frac{72}{1597}, -\frac{414}{1597}, \frac{99}{1597}, \frac{270}{1597}, -\frac{108}{1597}, \frac{63}{1597})$ $+ \frac{18}{1597}\sqrt{1230}e^3 \otimes e_9 + \frac{9}{1597}\sqrt{3642}e^2 \otimes e_8$	{1279, 378}
941:111	$0, 0, 0, 0, 0, \frac{12}{1927}\sqrt{35}e^{12}, \frac{1}{1927}\sqrt{7338}e^{13},$ $\frac{3}{1927}\sqrt{334}e^{14} + \frac{1}{1927}\sqrt{3378}e^{35}, \frac{12}{1927}\sqrt{35}e^{16} + \frac{3}{1927}\sqrt{554}e^{24}$	$(-\frac{9}{1927}, \frac{44}{1927}, -\frac{12}{1927}, -\frac{18}{1927}, -\frac{15}{1927}, \frac{35}{1927}, -\frac{21}{1927}, -\frac{27}{1927}, \frac{26}{1927})$ $+ \frac{1}{1927}\sqrt{3678}e^3 \otimes e_5 + \frac{1}{1927}\sqrt{7674}e^4 \otimes e_7$	{2379, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:111	$0, 0, 0, 0, 0, \frac{28}{93}e^{12}, \frac{14}{93}\sqrt{30}e^{13}, \frac{14}{93}\sqrt{15}e^{14} + \frac{14}{93}\sqrt{26}e^{35},$ $\frac{28}{93}e^{16} + \frac{14}{93}\sqrt{13}e^{24}$	$(\frac{3}{31}, \frac{7}{93}, -\frac{40}{93}, \frac{6}{31}, \frac{67}{93}, \frac{16}{93}, -\frac{1}{3}, \frac{9}{31}, \frac{25}{93})$ $-\frac{14}{93}\sqrt{77}e^5 \otimes e_7$	{123569, 12679, 135, 17, 23789, 2589, 3678, 568}
941:111	$0, 0, 0, 0, 0, \frac{28}{93}e^{12}, \frac{14}{93}\sqrt{30}e^{13}, \frac{14}{93}\sqrt{15}e^{14} + \frac{14}{93}\sqrt{26}e^{35},$ $\frac{28}{93}e^{16} + \frac{14}{93}\sqrt{13}e^{24}$	$(\frac{3}{31}, \frac{7}{93}, -\frac{40}{93}, \frac{6}{31}, \frac{67}{93}, \frac{16}{93}, -\frac{1}{3}, \frac{9}{31}, \frac{25}{93})$ $+\frac{14}{93}\sqrt{77}e^5 \otimes e_7$	{123569, 12679, 135, 17, 23789, 2589, 3678, 568}
941:112	$0, 0, 0, 0, 0, \frac{4}{349}\sqrt{3377}e^{12}, \frac{4}{349}\sqrt{858}e^{13}, \frac{12}{349}\sqrt{286}e^{15} + \frac{4}{349}\sqrt{2233}e^{34},$ $\frac{4}{349}\sqrt{3377}e^{16} + \frac{8}{349}\sqrt{715}e^{24}$	$(\frac{47}{349}, -\frac{10}{349}, -\frac{88}{349}, \frac{94}{349}, -\frac{41}{349}, \frac{37}{349}, -\frac{41}{349}, \frac{6}{349}, \frac{84}{349})$ $+\frac{8}{349}\sqrt{858}e^1 \otimes e_5$	{123479, 13467, 234569, 345}
941:112	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{623}e^{12}, \frac{5}{79}\sqrt{21}e^{13}, \frac{5}{79}\sqrt{21}e^{15} + \frac{8}{79}\sqrt{7}e^{34},$ $\frac{8}{79}\sqrt{7}e^{16} + \frac{5}{79}\sqrt{35}e^{24}$	$(\frac{11}{158}, -\frac{14}{79}, -\frac{3}{158}, \frac{11}{79}, \frac{4}{79}, -\frac{17}{158}, \frac{4}{79}, \frac{19}{158}, -\frac{3}{79})$ $+\frac{5}{79}\sqrt{21}e^4 \otimes e_7 + \frac{5}{79}\sqrt{21}e^5 \otimes e_9$	{126789, 2379}
941:112	$0, 0, 0, 0, 0, \frac{3}{37}\sqrt{70}e^{12}, \frac{1}{37}\sqrt{330}e^{13}, \frac{1}{37}\sqrt{426}e^{15} + \frac{3}{37}\sqrt{42}e^{34},$ $\frac{3}{37}\sqrt{70}e^{16} + \frac{3}{37}\sqrt{70}e^{24}$	$(0, \frac{5}{37}, -\frac{3}{37}, 0, -\frac{3}{37}, \frac{5}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37})$ $+\frac{1}{37}\sqrt{282}e^4 \otimes e_7 + \frac{1}{37}\sqrt{474}e^1 \otimes e_5$	{123479, 13467}
941:112	$0, 0, 0, 0, 0, \frac{69}{2101}\sqrt{82}e^{12}, \frac{69}{2101}\sqrt{134}e^{13}, \frac{184}{2101}\sqrt{15}e^{15} + \frac{92}{2101}e^{34},$ $\frac{828}{2101}e^{16} + \frac{46}{2101}\sqrt{521}e^{24}$	$(\frac{115}{2101}, \frac{345}{2101}, -\frac{414}{2101}, \frac{230}{2101}, -\frac{299}{2101}, \frac{460}{2101}, -\frac{299}{2101}, -\frac{184}{2101}, \frac{575}{2101})$ $+\frac{437}{2101}\sqrt{6}e^4 \otimes e_7 + \frac{69}{2101}\sqrt{186}e^2 \otimes e_8$	{178, 2379}
941:112	$0, 0, 0, 0, 0, \frac{1}{275}\sqrt{1914}e^{12}, \frac{3}{275}\sqrt{330}e^{13}, \frac{2}{275}\sqrt{33}e^{15} + \frac{1}{275}\sqrt{22}e^{34},$ $\frac{4}{275}\sqrt{66}e^{16} + \frac{1}{275}\sqrt{3014}e^{24}$	$(\frac{1}{25}, -\frac{3}{25}, 0, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{1}{25})$ $+\frac{1}{275}\sqrt{3102}e^4 \otimes e_7 + \frac{3}{275}\sqrt{286}e^3 \otimes e_9$	{126789, 367}
941:112	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{42}e^{12}, \frac{28}{115}\sqrt{3}e^{13}, \frac{3}{115}\sqrt{14}e^{15} + \frac{2}{115}\sqrt{210}e^{34},$ $\frac{2}{115}\sqrt{210}e^{16} + \frac{3}{115}\sqrt{266}e^{24}$	$(-\frac{14}{115}, \frac{27}{115}, \frac{4}{23}, -\frac{28}{115}, \frac{6}{115}, \frac{13}{115}, \frac{6}{115}, -\frac{8}{115}, -\frac{1}{115})$ $+\frac{1}{115}\sqrt{1974}e^3 \otimes e_9 + \frac{1}{115}\sqrt{2478}e^2 \otimes e_7$	{2589, 367}
941:112	$0, 0, 0, 0, 0, \frac{42}{337}\sqrt{38}e^{12}, \frac{70}{337}\sqrt{6}e^{13}, \frac{210}{337}\sqrt{2}e^{15} + \frac{42}{337}\sqrt{38}e^{34},$ $\frac{14}{337}\sqrt{142}e^{16} + \frac{140}{337}\sqrt{5}e^{24}$	$(-\frac{21}{337}, -\frac{42}{337}, \frac{133}{337}, -\frac{42}{337}, \frac{112}{337}, -\frac{63}{337}, \frac{112}{337}, \frac{91}{337}, -\frac{84}{337})$ $+\frac{140}{337}\sqrt{6}e^5 \otimes e_9$	{126789, 135, 2379, 568}
941:112	$0, 0, 0, 0, 0, \frac{26}{71}\sqrt{2}e^{12}, \frac{26}{781}\sqrt{3}e^{13}, \frac{156}{781}\sqrt{5}e^{15} + \frac{52}{781}\sqrt{31}e^{34},$ $\frac{13}{781}\sqrt{854}e^{16} + \frac{13}{781}\sqrt{610}e^{24}$	$(\frac{65}{781}, \frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, -\frac{104}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{39}{781}, \frac{195}{781})$ $+\frac{13}{781}\sqrt{1074}e^1 \otimes e_5 + \frac{39}{781}\sqrt{38}e^2 \otimes e_7$	{13467, 234569}
941:112	$0, 0, 0, 0, 0, \frac{4}{373}\sqrt{105}e^{12}, \frac{4}{373}\sqrt{2730}e^{13}, \frac{4}{373}\sqrt{2730}e^{15} + \frac{4}{373}\sqrt{3745}e^{34},$ $\frac{4}{373}\sqrt{3745}e^{16} + \frac{8}{373}\sqrt{455}e^{24}$	$(-\frac{49}{373}, \frac{6}{373}, \frac{188}{373}, -\frac{98}{373}, \frac{139}{373}, -\frac{43}{373}, \frac{139}{373}, \frac{90}{373}, -\frac{92}{373})$ $+\frac{8}{373}\sqrt{2730}e^3 \otimes e_9$	{1279, 13568, 2569, 378}
941:112	$0, 0, 0, 0, 0, \frac{14}{337}\sqrt{142}e^{12}, \frac{210}{337}\sqrt{2}e^{13}, \frac{70}{337}\sqrt{6}e^{15} + \frac{42}{337}\sqrt{38}e^{34},$ $\frac{42}{337}\sqrt{38}e^{16} + \frac{140}{337}\sqrt{5}e^{24}$	$(-\frac{21}{337}, \frac{158}{337}, -\frac{17}{337}, -\frac{42}{337}, -\frac{38}{337}, \frac{137}{337}, -\frac{38}{337}, -\frac{59}{337}, \frac{116}{337})$ $+\frac{140}{337}\sqrt{6}e^2 \otimes e_7$	{123569, 178, 2589, 367}
941:112	$0, 0, 0, 0, 0, \frac{1}{74}\sqrt{42}e^{12}, \frac{1}{296}\sqrt{78}e^{13}, \frac{1}{74}\sqrt{39}e^{15} + \frac{1}{148}\sqrt{142}e^{34},$ $\frac{1}{296}\sqrt{802}e^{16} + \frac{1}{148}\sqrt{130}e^{24}$	$(\frac{11}{592}, -\frac{15}{296}, -\frac{1}{148}, \frac{11}{296}, \frac{7}{592}, -\frac{19}{592}, \frac{7}{592}, \frac{9}{296}, -\frac{1}{74})$ $+\frac{1}{296}\sqrt{390}e^3 \otimes e_9 + \frac{3}{296}\sqrt{78}e^1 \otimes e_5$	{13467, 345}
941:112	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{210}e^{12}, \frac{3}{115}\sqrt{14}e^{13}, \frac{28}{115}\sqrt{3}e^{15} + \frac{2}{115}\sqrt{210}e^{34},$ $\frac{4}{115}\sqrt{42}e^{16} + \frac{3}{115}\sqrt{266}e^{24}$	$(-\frac{14}{115}, \frac{19}{115}, \frac{26}{115}, -\frac{28}{115}, \frac{12}{115}, \frac{1}{115}, \frac{12}{115}, -\frac{2}{115}, -\frac{9}{115})$ $+\frac{1}{115}\sqrt{1974}e^2 \otimes e_8 + \frac{1}{115}\sqrt{2478}e^5 \otimes e_9$	{2379, 568}
941:112	$0, 0, 0, 0, 0, \frac{4}{373}\sqrt{3745}e^{12}, \frac{4}{373}\sqrt{2730}e^{13}, \frac{4}{373}\sqrt{2730}e^{15} + \frac{4}{373}\sqrt{3745}e^{34},$ $\frac{4}{373}\sqrt{105}e^{16} + \frac{8}{373}\sqrt{455}e^{24}$	$(-\frac{49}{373}, \frac{214}{373}, \frac{32}{373}, -\frac{98}{373}, -\frac{17}{373}, \frac{165}{373}, -\frac{17}{373}, -\frac{66}{373}, \frac{116}{373})$ $+\frac{8}{373}\sqrt{2730}e^2 \otimes e_8$	{1259, 13678, 2679, 358}
941:112	$0, 0, 0, 0, 0, \frac{8}{173}\sqrt{127}e^{12}, \frac{8}{173}\sqrt{39}e^{13}, \frac{8}{173}\sqrt{78}e^{15} + \frac{16}{173}\sqrt{22}e^{34},$ $\frac{8}{173}\sqrt{114}e^{16} + \frac{8}{173}\sqrt{91}e^{24}$	$(\frac{10}{173}, \frac{20}{173}, -\frac{32}{173}, \frac{20}{173}, -\frac{22}{173}, \frac{30}{173}, -\frac{22}{173}, -\frac{12}{173}, \frac{40}{173})$ $+\frac{24}{173}\sqrt{13}e^1 \otimes e_5 + \frac{8}{173}\sqrt{39}e^2 \otimes e_8$	{123479, 234569}
941:112	$0, 0, 0, 0, 0, \frac{42}{337}\sqrt{38}e^{12}, \frac{210}{337}\sqrt{2}e^{13}, \frac{70}{337}\sqrt{6}e^{15} + \frac{14}{337}\sqrt{142}e^{34},$ $\frac{42}{337}\sqrt{38}e^{16} + \frac{140}{337}\sqrt{5}e^{24}$	$(\frac{79}{337}, -\frac{42}{337}, -\frac{117}{337}, \frac{158}{337}, -\frac{38}{337}, \frac{37}{337}, -\frac{38}{337}, \frac{41}{337}, \frac{116}{337})$ $+\frac{140}{337}\sqrt{6}e^4 \otimes e_7$	{126789, 178, 2379, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:113	$0, 0, 0, 0, 0, \frac{11}{889}\sqrt{687}e^{12}, \frac{33}{889}\sqrt{23}e^{13}, \frac{11}{889}\sqrt{1033}e^{23} + \frac{66}{889}\sqrt{21}e^{45},$ $\frac{22}{889}\sqrt{322}e^{14} + \frac{22}{889}\sqrt{109}e^{26}$	$(-\frac{341}{1778}, \frac{143}{1778}, \frac{187}{1778}, \frac{143}{889}, \frac{22}{889}, -\frac{99}{889}, -\frac{11}{127}, \frac{165}{889}, -\frac{55}{1778})$ $+\frac{33}{889}\sqrt{85}e^4 \otimes e_5 + \frac{88}{889}\sqrt{15}e^3 \otimes e_9$	{159, 235}
941:113	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{15}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, e^{23} + \frac{2}{5}\sqrt{5}e^{45},$ $\frac{2}{5}\sqrt{10}e^{14} + \frac{2}{5}\sqrt{5}e^{26}$	$(-\frac{1}{10}, \frac{3}{10}, -\frac{1}{10}, \frac{3}{5}, -\frac{2}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{2})$ $+\frac{3}{5}\sqrt{5}e^4 \otimes e_5$	{1235679, 159, 235, 567}
941:113	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{2}{17}\sqrt{6}e^{23} + \frac{2}{17}\sqrt{7}e^{45},$ $\frac{2}{17}\sqrt{7}e^{14} + \frac{2}{17}\sqrt{10}e^{26}$	$(-\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{3}{17}, -\frac{1}{17})$ $+\frac{2}{17}\sqrt{6}e^5 \otimes e_9 + \frac{6}{17}e^2 \otimes e_7$	{123489, 146789, 2456, 3457}
941:113	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{2}{17}\sqrt{6}e^{13}, \frac{2}{17}\sqrt{6}e^{23} + \frac{2}{17}\sqrt{7}e^{45},$ $\frac{2}{17}\sqrt{7}e^{14} + \frac{2}{17}\sqrt{10}e^{26}$	$(-\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{3}{17}, -\frac{1}{17})$ $-\frac{2}{17}\sqrt{6}e^5 \otimes e_9 + \frac{6}{17}e^2 \otimes e_7$	{123489, 146789, 2456, 3457}
941:113	$0, 0, 0, 0, 0, \frac{140}{2213}\sqrt{6}e^{12}, \frac{84}{2213}\sqrt{71}e^{13},$ $\frac{28}{2213}\sqrt{762}e^{23} + \frac{140}{2213}\sqrt{41}e^{45}, \frac{280}{2213}e^{14} + \frac{28}{2213}\sqrt{699}e^{26}$	$(-\frac{462}{2213}, \frac{140}{2213}, \frac{350}{2213}, \frac{280}{2213}, \frac{210}{2213}, -\frac{322}{2213}, -\frac{112}{2213}, \frac{490}{2213}, -\frac{182}{2213})$ $+\frac{28}{2213}\sqrt{978}e^4 \otimes e_7 + \frac{336}{2213}\sqrt{7}e^5 \otimes e_9$	{123489, 2456}
941:113	$0, 0, 0, 0, 0, \frac{140}{2213}\sqrt{6}e^{12}, \frac{84}{2213}\sqrt{71}e^{13},$ $\frac{84}{2213}\sqrt{10}e^{23} + \frac{28}{2213}\sqrt{689}e^{45}, \frac{56}{2213}\sqrt{59}e^{14} + \frac{84}{2213}\sqrt{3}e^{26}$	$(\frac{210}{2213}, \frac{140}{2213}, -\frac{322}{2213}, \frac{280}{2213}, -\frac{462}{2213}, \frac{350}{2213}, -\frac{112}{2213}, -\frac{182}{2213}, \frac{490}{2213})$ $+\frac{28}{2213}\sqrt{978}e^4 \otimes e_7 + \frac{336}{2213}\sqrt{7}e^1 \otimes e_8$	{1279, 235678}
941:113	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{141}e^{12}, \frac{1}{37}\sqrt{237}e^{13}, \frac{3}{37}\sqrt{35}e^{23} + \frac{3}{37}\sqrt{35}e^{45},$ $\frac{3}{37}\sqrt{35}e^{14} + \frac{3}{37}\sqrt{21}e^{26}$	$(-\frac{11}{74}, \frac{5}{74}, \frac{5}{74}, \frac{5}{37}, 0, -\frac{3}{37}, -\frac{3}{37}, \frac{5}{37}, -\frac{1}{74})$ $+\frac{1}{37}\sqrt{285}e^5 \otimes e_7 + \frac{1}{37}\sqrt{93}e^3 \otimes e_9$	{134569, 2456}
941:113	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{6}e^{12}, \frac{84}{485}\sqrt{23}e^{13}, \frac{28}{485}\sqrt{138}e^{23} + \frac{28}{485}\sqrt{209}e^{45},$ $\frac{56}{485}e^{14} + \frac{28}{97}\sqrt{3}e^{26}$	$(-\frac{126}{485}, \frac{28}{97}, \frac{14}{485}, \frac{56}{97}, -\frac{126}{485}, \frac{14}{485}, -\frac{112}{485}, \frac{154}{485}, \frac{154}{485})$ $+\frac{28}{485}\sqrt{402}e^4 \otimes e_7$	{123489, 134569, 2456, 48}
941:113	$0, 0, 0, 0, 0, \frac{12}{443}\sqrt{10}e^{12}, \frac{2}{443}\sqrt{789}e^{13}, \frac{2}{443}\sqrt{699}e^{23} + \frac{6}{443}\sqrt{101}e^{45},$ $\frac{2}{443}\sqrt{699}e^{14} + \frac{2}{443}\sqrt{510}e^{26}$	$(\frac{7}{443}, -\frac{13}{443}, \frac{14}{443}, -\frac{26}{443}, \frac{27}{443}, -\frac{6}{443}, \frac{21}{443}, \frac{1}{443}, -\frac{19}{443})$ $+\frac{2}{443}\sqrt{339}e^1 \otimes e_8 + \frac{2}{443}\sqrt{858}e^5 \otimes e_7$	{134569, 234678}
941:113	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{2}e^{13}, \frac{4}{29}\sqrt{3}e^{23} + \frac{2}{29}\sqrt{41}e^{45},$ $\frac{2}{29}\sqrt{5}e^{14} + \frac{4}{29}\sqrt{6}e^{26}$	$(\frac{6}{29}, -\frac{4}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{5}e^1 \otimes e_8 - \frac{2}{29}\sqrt{5}e^5 \otimes e_9$	{1279, 1369, 235678, 58}
941:113	$0, 0, 0, 0, 0, \frac{6}{29}\sqrt{2}e^{12}, \frac{6}{29}\sqrt{2}e^{13}, \frac{4}{29}\sqrt{3}e^{23} + \frac{2}{29}\sqrt{41}e^{45},$ $\frac{2}{29}\sqrt{5}e^{14} + \frac{4}{29}\sqrt{6}e^{26}$	$(\frac{6}{29}, -\frac{4}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{6}{29}, \frac{2}{29}, \frac{8}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{2}{29}\sqrt{5}e^1 \otimes e_8 + \frac{2}{29}\sqrt{5}e^5 \otimes e_9$	{1279, 1369, 235678, 58}
941:113	$0, 0, 0, 0, 0, \frac{3}{4}e^{12}, \frac{3}{4}e^{13}, \frac{1}{2}\sqrt{2}e^{23} + \frac{1}{2}\sqrt{2}e^{45},$ $\frac{1}{4}\sqrt{14}e^{14} + \frac{1}{2}\sqrt{3}e^{26}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+\frac{1}{2}\sqrt{3}e^2 \otimes e_7 + \frac{1}{4}\sqrt{6}e^4 \otimes e_5$	{2456, 3457}
941:113	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{6}e^{12}, \frac{4}{47}\sqrt{15}e^{13}, \frac{4}{47}\sqrt{2}e^{23} + \frac{4}{47}\sqrt{3}e^{45},$ $\frac{4}{47}\sqrt{6}e^{14} + \frac{4}{47}\sqrt{17}e^{26}$	$(-\frac{10}{47}, \frac{4}{47}, \frac{6}{47}, \frac{8}{47}, \frac{2}{47}, -\frac{6}{47}, -\frac{4}{47}, \frac{10}{47}, -\frac{2}{47})$ $+\frac{12}{47}\sqrt{2}e^3 \otimes e_9 + \frac{8}{47}\sqrt{6}e^2 \otimes e_7$	{145679, 3478}
941:113	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{987}e^{12}, \frac{1}{62}\sqrt{987}e^{13}, \frac{2}{31}\sqrt{141}e^{23} + \frac{1}{62}\sqrt{2914}e^{45},$ $\frac{1}{62}\sqrt{658}e^{14} + \frac{1}{62}\sqrt{2914}e^{26}$	$(-\frac{3}{62}, -\frac{13}{124}, \frac{49}{124}, -\frac{13}{62}, \frac{1}{2}, -\frac{19}{124}, \frac{43}{124}, \frac{9}{31}, -\frac{8}{31})$ $+\frac{1}{62}\sqrt{4794}e^5 \otimes e_9$	{123489, 146789, 2456, 3457}
941:113	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{15}e^{12}, \frac{4}{25}\sqrt{15}e^{13}, \frac{4}{25}\sqrt{10}e^{23} + \frac{6}{25}\sqrt{5}e^{45},$ $\frac{2}{5}\sqrt{3}e^{14} + \frac{8}{25}\sqrt{5}e^{26}$	$(-\frac{1}{5}, \frac{1}{5}, 0, \frac{2}{5}, -\frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+\frac{2}{25}\sqrt{105}e^2 \otimes e_7$	{123489, 146789, 2456, 3457}
941:113	$0, 0, 0, 0, 0, \frac{17}{796}\sqrt{111}e^{12}, \frac{17}{796}\sqrt{111}e^{13}, \frac{17}{796}\sqrt{562}e^{23} + \frac{17}{398}\sqrt{37}e^{45},$ $\frac{17}{796}\sqrt{790}e^{14} + \frac{17}{398}\sqrt{102}e^{26}$	$(\frac{85}{398}, \frac{85}{1592}, -\frac{323}{1592}, \frac{85}{796}, -\frac{51}{199}, \frac{425}{1592}, \frac{17}{1592}, -\frac{119}{796}, \frac{255}{796})$ $+\frac{17}{398}\sqrt{195}e^1 \otimes e_8 + \frac{51}{398}\sqrt{19}e^4 \otimes e_5$	{1235679, 159}
941:113	$0, 0, 0, 0, 0, \frac{1}{62}\sqrt{987}e^{12}, \frac{1}{62}\sqrt{987}e^{13}, \frac{1}{31}\sqrt{235}e^{23} + \frac{1}{31}\sqrt{329}e^{45},$ $\frac{1}{31}\sqrt{235}e^{14} + \frac{1}{62}\sqrt{282}e^{26}$	$(\frac{1}{2}, -\frac{13}{124}, -\frac{19}{124}, -\frac{13}{62}, -\frac{3}{62}, \frac{49}{124}, \frac{43}{124}, -\frac{8}{31}, \frac{9}{31})$ $+\frac{1}{62}\sqrt{4794}e^1 \otimes e_8$	{12345, 14567, 24689, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:113	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{210}e^{12}, \frac{12}{89}\sqrt{7}e^{13}, \frac{4}{89}\sqrt{322}e^{23} + \frac{12}{89}\sqrt{21}e^{45},$ $\frac{4}{89}\sqrt{322}e^{14} + \frac{4}{89}\sqrt{7}e^{26}$	$(-\frac{14}{89}, -\frac{4}{89}, \frac{34}{89}, -\frac{8}{89}, \frac{38}{89}, -\frac{18}{89}, \frac{20}{89}, \frac{30}{89}, -\frac{22}{89})$ $+ \frac{4}{89}\sqrt{546}e^3 \otimes e_9$	{126789, 1579, 2357, 3678}
941:113	$0, 0, 0, 0, 0, \frac{32}{599}\sqrt{15}e^{12}, \frac{24}{599}\sqrt{23}e^{13}, \frac{16}{599}\sqrt{177}e^{23} + \frac{24}{599}\sqrt{19}e^{45},$ $\frac{16}{599}\sqrt{177}e^{14} + \frac{8}{599}\sqrt{123}e^{26}$	$(\frac{76}{599}, -\frac{64}{599}, \frac{44}{599}, -\frac{128}{599}, \frac{108}{599}, \frac{12}{599}, \frac{120}{599}, -\frac{20}{599}, -\frac{52}{599})$ $+ \frac{40}{599}\sqrt{30}e^1 \otimes e_8 + \frac{8}{599}\sqrt{894}e^3 \otimes e_9$	{1579, 3678}
941:113	$0, 0, 0, 0, 0, \frac{80}{469}\sqrt{3}e^{12}, \frac{8}{469}\sqrt{714}e^{13}, \frac{32}{469}\sqrt{47}e^{23} + \frac{8}{469}\sqrt{814}e^{45},$ $\frac{32}{469}\sqrt{47}e^{14} + \frac{8}{469}\sqrt{538}e^{26}$	$(-\frac{76}{469}, \frac{12}{469}, \frac{74}{469}, \frac{24}{469}, \frac{62}{469}, \frac{64}{469}, -\frac{2}{469}, \frac{86}{469}, -\frac{52}{469})$ $+ \frac{48}{469}\sqrt{23}e^5 \otimes e_7$	{134569, 146789, 234678, 2456}
941:114	$0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358}e^{12}, \frac{6}{1109}\sqrt{11749}e^{13},$ $\frac{1}{1109}\sqrt{325182}e^{24} + \frac{1}{1109}\sqrt{216030}e^{35}, \frac{1}{1109}\sqrt{364598}e^{14} + \frac{3}{1109}\sqrt{32594}e^{26}$	$(-\frac{146}{1109}, \frac{92}{1109}, -\frac{141}{1109}, \frac{184}{1109}, \frac{417}{1109}, -\frac{54}{1109}, -\frac{287}{1109}, \frac{276}{1109}, \frac{38}{1109})$ $+ \frac{1}{1109}\sqrt{740566}e^2 \otimes e_7$	{12349, 146789, 2456, 34578}
941:114	$0, 0, 0, 0, 0, \frac{2}{2313}\sqrt{7734}e^{12}, \frac{20}{2313}\sqrt{7734}e^{13},$ $\frac{2}{771}\sqrt{14179}e^{24} + \frac{4}{2313}\sqrt{194639}e^{35}, \frac{2}{2313}\sqrt{125033}e^{14} + \frac{2}{2313}\sqrt{265534}e^{26}$	$(-\frac{29}{771}, \frac{103}{771}, -\frac{782}{2313}, \frac{206}{771}, \frac{1709}{771}, \frac{74}{771}, -\frac{869}{2313}, \frac{103}{257}, \frac{59}{257})$ $+ \frac{2}{2313}\sqrt{2437499}e^5 \otimes e_7$	{134569, 14679, 234678, 24568}
941:114	$0, 0, 0, 0, 0, \frac{37}{2367}\sqrt{6}e^{12}, \frac{37}{7101}\sqrt{2382}e^{13},$ $\frac{370}{7101}\sqrt{30}e^{24} + \frac{74}{7101}\sqrt{1235}e^{35}, \frac{37}{7101}\sqrt{2170}e^{14} + \frac{37}{7101}\sqrt{3334}e^{26}$	$(-\frac{518}{2367}, \frac{185}{2367}, \frac{925}{7101}, \frac{370}{2367}, \frac{740}{7101}, -\frac{37}{263}, \frac{629}{7101}, \frac{185}{789}, -\frac{148}{2367})$ $+ \frac{37}{7101}\sqrt{5030}e^5 \otimes e_7 + \frac{37}{7101}\sqrt{7782}e^3 \otimes e_9$	{1345, 24589}
941:114	$0, 0, 0, 0, 0, \frac{44}{2401}\sqrt{105}e^{12}, \frac{22}{2401}\sqrt{481}e^{13},$ $\frac{22}{2401}\sqrt{631}e^{24} + \frac{22}{2401}\sqrt{1171}e^{35}, \frac{22}{2401}\sqrt{881}e^{14} + \frac{330}{2401}\sqrt{2}e^{26}$	$(\frac{209}{2401}, -\frac{11}{2401}, -\frac{66}{343}, -\frac{22}{2401}, \frac{429}{2401}, \frac{198}{2401}, -\frac{253}{2401}, -\frac{33}{2401}, \frac{187}{2401})$ $+ \frac{44}{343}\sqrt{7}e^5 \otimes e_9 + \frac{66}{2401}\sqrt{89}e^1 \otimes e_8$	{129, 578}
941:114	$0, 0, 0, 0, 0, \frac{31}{6157}\sqrt{4174}e^{12}, \frac{279}{6157}\sqrt{82}e^{13},$ $\frac{186}{6157}\sqrt{163}e^{24} + \frac{31}{6157}\sqrt{3990}e^{35}, \frac{62}{6157}\sqrt{138}e^{14} + \frac{434}{6157}\sqrt{10}e^{26}$	$(-\frac{1240}{6157}, \frac{403}{6157}, \frac{1085}{6157}, \frac{806}{6157}, \frac{124}{6157}, -\frac{837}{6157}, -\frac{155}{6157}, \frac{1209}{6157}, -\frac{434}{6157})$ $+ \frac{31}{6157}\sqrt{4282}e^3 \otimes e_5 + \frac{62}{6157}\sqrt{1873}e^4 \otimes e_7$	{1579, 367}
941:114	$0, 0, 0, 0, 0, \frac{4}{273}\sqrt{1310}e^{12}, \frac{1}{273}\sqrt{84495}e^{13},$ $\frac{1}{546}\sqrt{129035}e^{24} + \frac{1}{546}\sqrt{116590}e^{35}, \frac{5}{546}\sqrt{3930}e^{14} + \frac{1}{273}\sqrt{7205}e^{26}$	$(-\frac{59}{1092}, \frac{11}{182}, \frac{29}{42}, \frac{11}{91}, -\frac{139}{273}, \frac{156}{1092}, \frac{695}{182}, \frac{33}{1092}, \frac{73}{1092})$ $+ \frac{1}{546}\sqrt{598015}e^3 \otimes e_5$	{13, 157, 3679, 569}
941:114	$0, 0, 0, 0, 0, \frac{23}{5513}\sqrt{1874}e^{12}, \frac{23}{5513}\sqrt{4002}e^{13},$ $\frac{46}{5513}\sqrt{1167}e^{24} + \frac{23}{5513}\sqrt{1182}e^{35}, \frac{46}{5513}\sqrt{519}e^{14} + \frac{69}{5513}\sqrt{222}e^{26}$	$(\frac{460}{5513}, -\frac{23}{5513}, -\frac{1035}{5513}, -\frac{46}{5513}, \frac{966}{5513}, \frac{437}{5513}, -\frac{575}{5513}, -\frac{69}{5513}, \frac{414}{5513})$ $+ \frac{23}{5513}\sqrt{5902}e^4 \otimes e_7 + \frac{621}{5513}\sqrt{6}e^1 \otimes e_8$	{1579, 23578}
941:114	$0, 0, 0, 0, 0, \frac{51}{5917}\sqrt{530}e^{12}, \frac{255}{5917}\sqrt{130}e^{13},$ $\frac{1020}{5917}\sqrt{5}e^{24} + \frac{51}{5917}\sqrt{786}e^{35}, \frac{816}{5917}\sqrt{3}e^{14} + \frac{102}{5917}\sqrt{119}e^{26}$	$(\frac{1530}{5917}, -\frac{357}{5917}, \frac{765}{5917}, -\frac{714}{5917}, -\frac{1836}{5917}, \frac{1173}{5917}, \frac{2295}{5917}, -\frac{1071}{5917}, \frac{816}{5917})$ $+ \frac{102}{5917}\sqrt{1567}e^1 \otimes e_8 + \frac{51}{5917}\sqrt{4226}e^3 \otimes e_5$	{34789, 4589}
941:114	$0, 0, 0, 0, 0, \frac{3}{71}\sqrt{262}e^{12}, \frac{3}{71}\sqrt{418}e^{13}, \frac{48}{71}\sqrt{2}e^{24} + \frac{12}{71}\sqrt{30}e^{35},$ $\frac{12}{71}\sqrt{11}e^{14} + \frac{3}{71}\sqrt{282}e^{26}$	$(\frac{6}{71}, 0, -\frac{15}{71}, 0, \frac{15}{71}, \frac{6}{71}, -\frac{9}{71}, 0, \frac{6}{71})$ $+ \frac{12}{71}\sqrt{23}e^4 \otimes e_7 + \frac{3}{71}\sqrt{478}e^5 \otimes e_9$	{129, 2356}
941:114	$0, 0, 0, 0, 0, \frac{4}{2047}\sqrt{108794}e^{12}, \frac{4}{2047}\sqrt{143241}e^{13},$ $\frac{4}{2047}\sqrt{163590}e^{24} + \frac{4}{2047}\sqrt{93765}e^{35}, \frac{4}{2047}\sqrt{45087}e^{14} + \frac{12}{2047}\sqrt{6783}e^{26}$	$(-\frac{406}{2047}, \frac{239}{2047}, -\frac{180}{2047}, \frac{478}{2047}, \frac{39}{89}, -\frac{167}{2047}, -\frac{586}{2047}, \frac{717}{2047}, \frac{72}{2047})$ $+ \frac{28}{2047}\sqrt{5035}e^4 \otimes e_7$	{126789, 1579, 23578, 367}
941:114	$0, 0, 0, 0, 0, \frac{253}{3191}\sqrt{6}e^{12}, \frac{138}{3191}\sqrt{62}e^{13},$ $\frac{115}{3191}\sqrt{30}e^{24} + \frac{23}{3191}\sqrt{30}e^{35}, \frac{23}{3191}\sqrt{1010}e^{14} + \frac{69}{3191}\sqrt{246}e^{26}$	$(-\frac{644}{3191}, \frac{230}{3191}, \frac{345}{3191}, \frac{460}{3191}, \frac{345}{3191}, -\frac{414}{3191}, -\frac{299}{3191}, \frac{690}{3191}, -\frac{184}{3191})$ $+ \frac{138}{3191}\sqrt{62}e^3 \otimes e_9 + \frac{23}{3191}\sqrt{3490}e^2 \otimes e_7$	{146789, 34578}
941:114	$0, 0, 0, 0, 0, \frac{44}{2401}\sqrt{105}e^{12}, \frac{198}{2401}\sqrt{11}e^{13},$ $\frac{22}{2401}\sqrt{741}e^{24} + \frac{22}{2401}\sqrt{201}e^{35}, \frac{22}{2401}\sqrt{491}e^{14} + \frac{330}{2401}\sqrt{2}e^{26}$	$(\frac{209}{2401}, -\frac{11}{2401}, -\frac{66}{343}, -\frac{22}{2401}, \frac{429}{2401}, \frac{198}{2401}, -\frac{253}{2401}, -\frac{33}{2401}, \frac{187}{2401})$ $+ \frac{44}{343}\sqrt{7}e^2 \otimes e_7 + \frac{66}{2401}\sqrt{89}e^1 \otimes e_8$	{12349, 34578}
941:114	$0, 0, 0, 0, 0, \frac{29}{6245}\sqrt{1030}e^{12}, \frac{58}{6245}\sqrt{349}e^{13},$ $\frac{116}{6245}\sqrt{78}e^{24} + \frac{319}{6245}\sqrt{34}e^{35}, \frac{29}{6245}\sqrt{3158}e^{14} + \frac{29}{6245}\sqrt{1838}e^{26}$	$(\frac{406}{6245}, -\frac{29}{1249}, \frac{957}{6245}, -\frac{58}{1249}, -\frac{1392}{6245}, \frac{261}{6245}, \frac{1363}{6245}, -\frac{87}{1249}, \frac{116}{6245})$ $+ \frac{29}{6245}\sqrt{5066}e^1 \otimes e_8 + \frac{29}{6245}\sqrt{6094}e^3 \otimes e_9$	{1279, 378}
941:114	$0, 0, 0, 0, 0, \frac{20}{2401}\sqrt{3801}e^{12}, \frac{2}{2401}\sqrt{274215}e^{13},$ $\frac{2}{2401}\sqrt{315845}e^{24} + \frac{2}{2401}\sqrt{527615}e^{35}, \frac{2}{2401}\sqrt{442545}e^{14} + \frac{2}{2401}\sqrt{124890}e^{26}$	$(\frac{1189}{2401}, -\frac{207}{2401}, -\frac{66}{343}, -\frac{414}{2401}, -\frac{159}{2401}, \frac{982}{2401}, \frac{727}{2401}, -\frac{621}{2401}, \frac{775}{2401})$ $+ \frac{2}{2401}\sqrt{1789185}e^1 \otimes e_8$	{12345, 1247, 34789, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:114	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{167}e^{13}, \frac{12}{221}\sqrt{15}e^{24} + \frac{6}{221}\sqrt{219}e^{35},$ $\frac{6}{221}\sqrt{86}e^{14} + \frac{24}{221}e^{26}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{6}{221}\sqrt{337}e^5 \otimes e_7 + \frac{6}{221}\sqrt{449}e^1 \otimes e_8$	{12345, 1247, 34789, 4589}
941:114	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{167}e^{13}, \frac{12}{221}\sqrt{15}e^{24} + \frac{6}{221}\sqrt{219}e^{35},$ $\frac{6}{221}\sqrt{86}e^{14} + \frac{24}{221}e^{26}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $- \frac{6}{221}\sqrt{337}e^5 \otimes e_7 + \frac{6}{221}\sqrt{449}e^1 \otimes e_8$	{12345, 1247, 34789, 4589}
941:114	$0, 0, 0, 0, 0, \frac{16}{2351}\sqrt{609}e^{12}, \frac{16}{2351}\sqrt{2478}e^{13},$ $\frac{48}{2351}\sqrt{805}e^{24} + \frac{8}{2351}\sqrt{39270}e^{35}, \frac{80}{2351}\sqrt{273}e^{14} + \frac{8}{2351}\sqrt{33474}e^{26}$	$(-\frac{574}{2351}, \frac{205}{2351}, \frac{1180}{2351}, \frac{410}{2351}, -\frac{565}{2351}, -\frac{369}{2351}, \frac{606}{2351}, \frac{615}{2351}, -\frac{164}{2351})$ $+ \frac{56}{2351}\sqrt{1698}e^3 \otimes e_9$	{1279, 156789, 23567, 378}
941:114	$0, 0, 0, 0, 0, \frac{23}{6181}\sqrt{838}e^{12}, \frac{23}{6181}\sqrt{6438}e^{13},$ $\frac{69}{6181}\sqrt{466}e^{24} + \frac{69}{6181}\sqrt{362}e^{35}, \frac{46}{6181}\sqrt{1133}e^{14} + \frac{46}{6181}\sqrt{746}e^{26}$	$(-\frac{943}{6181}, \frac{299}{6181}, \frac{713}{6181}, \frac{598}{6181}, \frac{184}{6181}, -\frac{92}{6181}, -\frac{230}{6181}, \frac{897}{6181}, -\frac{345}{6181})$ $+ \frac{46}{6181}\sqrt{1939}e^2 \otimes e_7 + \frac{46}{6181}\sqrt{937}e^3 \otimes e_5$	{12349, 2456}
941:114	$0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358}e^{12}, \frac{1}{1109}\sqrt{317602}e^{13},$ $\frac{2}{1109}\sqrt{103846}e^{24} + \frac{2}{1109}\sqrt{131134}e^{35}, \frac{4}{1109}\sqrt{23498}e^{14} + \frac{3}{1109}\sqrt{32594}e^{26}$	$(-\frac{146}{1109}, \frac{92}{1109}, -\frac{141}{1109}, \frac{184}{1109}, \frac{417}{1109}, -\frac{54}{1109}, -\frac{287}{1109}, \frac{276}{1109}, \frac{38}{1109})$ $+ \frac{1}{1109}\sqrt{740566}e^5 \otimes e_9$	{129, 136789, 2356, 578}
941:115	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{406}e^{12}, \frac{1}{67}\sqrt{435}e^{13}, \frac{1}{134}\sqrt{5278}e^{25} + \frac{1}{134}\sqrt{4147}e^{34},$ $\frac{9}{134}\sqrt{58}e^{14} + \frac{1}{67}\sqrt{1479}e^{26}$	$(\frac{23}{268}, \frac{11}{134}, -\frac{29}{134}, \frac{11}{67}, -\frac{9}{67}, \frac{45}{268}, \frac{35}{268}, -\frac{7}{134}, \frac{1}{4})$ $+ \frac{9}{134}\sqrt{87}e^2 \otimes e_5$	{123479, 1345679, 2346, 345}
941:115	$0, 0, 0, 0, 0, \frac{22}{101}\sqrt{10}e^{12}, \frac{4}{101}\sqrt{330}e^{13}, \frac{4}{101}\sqrt{451}e^{25} + \frac{22}{101}\sqrt{10}e^{34},$ $\frac{2}{101}\sqrt{682}e^{14} + \frac{2}{101}\sqrt{770}e^{26}$	$(-\frac{28}{101}, \frac{16}{101}, \frac{3}{101}, \frac{32}{101}, \frac{19}{101}, -\frac{12}{101}, -\frac{25}{101}, \frac{35}{101}, \frac{4}{101})$ $+ \frac{2}{101}\sqrt{2046}e^5 \otimes e_7$	{123569, 126789, 367, 568}
941:115	$0, 0, 0, 0, 0, \frac{26}{295}\sqrt{41}e^{12}, \frac{39}{295}\sqrt{22}e^{13}, \frac{13}{295}\sqrt{66}e^{25} + \frac{13}{295}\sqrt{2}e^{34},$ $\frac{13}{295}\sqrt{166}e^{14} + \frac{13}{295}\sqrt{230}e^{26}$	$(-\frac{52}{295}, \frac{13}{59}, -\frac{52}{295}, \frac{26}{59}, \frac{13}{295}, \frac{13}{295}, -\frac{104}{295}, \frac{78}{295}, \frac{78}{295})$ $+ \frac{13}{295}\sqrt{498}e^2 \otimes e_7$	{123489, 14679, 2456, 34578}
941:115	$0, 0, 0, 0, 0, \frac{26}{2177}\sqrt{371}e^{12}, \frac{156}{2177}\sqrt{17}e^{13},$ $\frac{26}{2177}\sqrt{95}e^{25} + \frac{208}{2177}\sqrt{5}e^{34}, \frac{130}{2177}\sqrt{14}e^{14} + \frac{26}{2177}\sqrt{874}e^{26}$	$(-\frac{403}{2177}, \frac{130}{2177}, \frac{195}{2177}, \frac{260}{2177}, \frac{325}{2177}, -\frac{39}{311}, -\frac{208}{2177}, \frac{65}{311}, -\frac{143}{2177})$ $+ \frac{130}{2177}\sqrt{42}e^2 \otimes e_7 + \frac{26}{2177}\sqrt{897}e^3 \otimes e_9$	{146789, 3457}
941:115	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41}e^{12}, \frac{17}{1381}\sqrt{627}e^{13},$ $\frac{34}{1381}\sqrt{167}e^{25} + \frac{17}{1381}\sqrt{211}e^{34}, \frac{17}{1381}\sqrt{834}e^{14} + \frac{51}{1381}\sqrt{46}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^1 \otimes e_8 + \frac{255}{1381}\sqrt{5}e^4 \otimes e_7$	{125679, 179, 2378, 35678}
941:115	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41}e^{12}, \frac{17}{1381}\sqrt{627}e^{13},$ $\frac{34}{1381}\sqrt{167}e^{25} + \frac{17}{1381}\sqrt{211}e^{34}, \frac{17}{1381}\sqrt{834}e^{14} + \frac{51}{1381}\sqrt{46}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^1 \otimes e_8 - \frac{255}{1381}\sqrt{5}e^4 \otimes e_7$	{125679, 179, 2378, 35678}
941:115	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{2086}e^{12}, \frac{17}{1381}\sqrt{498}e^{13},$ $\frac{17}{1381}\sqrt{1582}e^{25} + \frac{34}{1381}\sqrt{334}e^{34}, \frac{34}{1381}\sqrt{354}e^{14} + \frac{102}{1381}\sqrt{51}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{102}{1381}\sqrt{7}e^1 \otimes e_8 + \frac{255}{1381}\sqrt{10}e^2 \otimes e_5$	{123479, 1345679}
941:115	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41}e^{12}, \frac{17}{1381}\sqrt{627}e^{13},$ $\frac{85}{1381}\sqrt{10}e^{25} + \frac{17}{1381}\sqrt{670}e^{34}, \frac{85}{1381}\sqrt{15}e^{14} + \frac{102}{1381}\sqrt{14}e^{26}$	$(-\frac{289}{1381}, \frac{85}{1381}, \frac{170}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^3 \otimes e_9 - \frac{255}{1381}\sqrt{5}e^4 \otimes e_7$	{12346, 1345, 24589, 4689}
941:115	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41}e^{12}, \frac{17}{1381}\sqrt{627}e^{13},$ $\frac{85}{1381}\sqrt{10}e^{25} + \frac{17}{1381}\sqrt{670}e^{34}, \frac{85}{1381}\sqrt{15}e^{14} + \frac{102}{1381}\sqrt{14}e^{26}$	$(-\frac{289}{1381}, \frac{85}{1381}, \frac{170}{1381}, \frac{170}{1381}, \frac{255}{1381}, -\frac{204}{1381}, -\frac{119}{1381}, \frac{340}{1381}, -\frac{119}{1381})$ $+ \frac{153}{1381}\sqrt{17}e^3 \otimes e_9 + \frac{255}{1381}\sqrt{5}e^4 \otimes e_7$	{12346, 1345, 24589, 4689}
941:115	$0, 0, 0, 0, 0, \frac{26}{2177}\sqrt{371}e^{12}, \frac{156}{2177}\sqrt{17}e^{13},$ $\frac{26}{2177}\sqrt{503}e^{25} + \frac{26}{2177}\sqrt{21}e^{34}, \frac{26}{2177}\sqrt{51}e^{14} + \frac{52}{2177}\sqrt{69}e^{26}$	$(\frac{195}{2177}, \frac{130}{2177}, -\frac{403}{2177}, \frac{260}{2177}, -\frac{39}{311}, \frac{325}{2177}, -\frac{208}{2177}, -\frac{143}{2177}, \frac{65}{311})$ $+ \frac{130}{2177}\sqrt{42}e^2 \otimes e_7 + \frac{26}{2177}\sqrt{897}e^1 \otimes e_8$	{123459, 2468}
941:115	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{301}e^{12}, \frac{4}{119}\sqrt{258}e^{13}, \frac{2}{119}\sqrt{1763}e^{25} + \frac{2}{119}\sqrt{301}e^{34},$ $\frac{2}{119}\sqrt{1419}e^{14} + \frac{6}{119}\sqrt{86}e^{26}$	$(\frac{55}{119}, -\frac{10}{119}, -\frac{11}{119}, -\frac{20}{119}, -\frac{3}{17}, \frac{45}{119}, \frac{44}{119}, -\frac{31}{119}, \frac{5}{17})$ $+ \frac{6}{119}\sqrt{473}e^1 \otimes e_8$	{12345, 1346, 24689, 4589}
941:115	$0, 0, 0, 0, 0, \frac{6}{269}\sqrt{1002}e^{12}, \frac{2}{269}\sqrt{2505}e^{13}, \frac{4}{269}\sqrt{3507}e^{25} + \frac{6}{269}\sqrt{1002}e^{34},$ $\frac{2}{269}\sqrt{13193}e^{14} + \frac{1}{269}\sqrt{6346}e^{26}$	$(-\frac{48}{269}, -\frac{9}{269}, \frac{110}{269}, -\frac{18}{269}, \frac{101}{269}, -\frac{57}{269}, \frac{62}{269}, \frac{92}{269}, -\frac{66}{269})$ $+ \frac{1}{269}\sqrt{79158}e^5 \otimes e_9$	{126789, 139, 2357, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:115	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{58}e^{12}, \frac{1}{17}\sqrt{78}e^{13}, \frac{2}{17}\sqrt{19}e^{25} + \frac{2}{17}\sqrt{10}e^{34},$ $\frac{1}{17}\sqrt{34}e^{14} + \frac{1}{17}\sqrt{14}e^{26}$	$(-\frac{4}{17}, \frac{1}{17}, \frac{3}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{3}{17}, -\frac{1}{17}, \frac{5}{17}, -\frac{2}{17})$ $+ \frac{1}{17}\sqrt{102}e^5 \otimes e_7 + \frac{3}{17}\sqrt{6}e^3 \otimes e_9$	{126789, 367}
941:115	$0, 0, 0, 0, 0, \frac{9}{1363}\sqrt{290}e^{12}, \frac{3}{1363}\sqrt{3606}e^{13},$ $\frac{126}{1363}\sqrt{3}e^{25} + \frac{9}{1363}\sqrt{290}e^{34}, \frac{6}{1363}\sqrt{645}e^{14} + \frac{3}{1363}\sqrt{2478}e^{26}$	$(\frac{12}{1363}, \frac{39}{1363}, -\frac{93}{1363}, \frac{78}{1363}, -\frac{54}{1363}, \frac{51}{1363}, -\frac{81}{1363}, -\frac{15}{1363}, \frac{90}{1363})$ $+ \frac{3}{1363}\sqrt{3210}e^1 \otimes e_8 + \frac{3}{1363}\sqrt{4530}e^5 \otimes e_7$	{123569, 568}
941:115	$0, 0, 0, 0, 0, \frac{80}{557}e^{12}, \frac{16}{557}\sqrt{114}e^{13}, \frac{16}{557}\sqrt{38}e^{25} + \frac{8}{557}\sqrt{430}e^{34},$ $\frac{8}{557}\sqrt{330}e^{14} + \frac{48}{557}\sqrt{7}e^{26}$	$(\frac{88}{557}, -\frac{64}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{24}{557}, \frac{176}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+ \frac{24}{557}\sqrt{110}e^1 \otimes e_8 + \frac{24}{557}\sqrt{110}e^3 \otimes e_9$	{12579, 1679, 23678, 3578}
941:115	$0, 0, 0, 0, 0, \frac{80}{557}e^{12}, \frac{16}{557}\sqrt{114}e^{13}, \frac{16}{557}\sqrt{38}e^{25} + \frac{8}{557}\sqrt{430}e^{34},$ $\frac{8}{557}\sqrt{330}e^{14} + \frac{48}{557}\sqrt{7}e^{26}$	$(\frac{88}{557}, -\frac{64}{557}, \frac{88}{557}, -\frac{128}{557}, \frac{24}{557}, \frac{24}{557}, \frac{176}{557}, -\frac{40}{557}, -\frac{40}{557})$ $+ \frac{24}{557}\sqrt{110}e^1 \otimes e_8 - \frac{24}{557}\sqrt{110}e^3 \otimes e_9$	{12579, 1679, 23678, 3578}
941:115	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{2086}e^{25} + \frac{34}{1381}\sqrt{397}e^{34}, \frac{136}{1381}\sqrt{30}e^{14} + \frac{102}{1381}\sqrt{65}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{102}{1381}\sqrt{7}e^4 \otimes e_7 + \frac{153}{1381}\sqrt{34}e^2 \otimes e_5$	{123479, 1345679}
941:115	$0, 0, 0, 0, 0, \frac{34}{2027}\sqrt{677}e^{12}, \frac{34}{2027}\sqrt{339}e^{13},$ $\frac{34}{2027}\sqrt{861}e^{25} + \frac{34}{2027}\sqrt{430}e^{34}, \frac{34}{2027}\sqrt{995}e^{14} + \frac{34}{2027}\sqrt{190}e^{26}$	$(-\frac{493}{2027}, \frac{170}{2027}, \frac{255}{2027}, \frac{340}{2027}, \frac{425}{2027}, -\frac{323}{2027}, -\frac{238}{2027}, \frac{595}{2027}, -\frac{153}{2027})$ $+ \frac{34}{2027}\sqrt{1122}e^5 \otimes e_9 + \frac{34}{2027}\sqrt{741}e^4 \otimes e_7$	{126789, 2357}
941:115	$0, 0, 0, 0, 0, \frac{34}{575}\sqrt{83}e^{12}, \frac{34}{575}\sqrt{141}e^{13}, \frac{34}{575}\sqrt{47}e^{25} + \frac{68}{575}\sqrt{19}e^{34},$ $\frac{34}{575}\sqrt{159}e^{14} + \frac{204}{575}e^{26}$	$(-\frac{119}{575}, \frac{34}{115}, -\frac{119}{575}, \frac{68}{115}, \frac{51}{575}, \frac{51}{575}, -\frac{238}{575}, \frac{221}{575}, \frac{221}{575})$ $+ \frac{102}{575}\sqrt{53}e^4 \otimes e_7$	{125679, 179, 2378, 35678}
941:115	$0, 0, 0, 0, 0, \frac{1}{3469}\sqrt{3742}e^{25} + \frac{4}{3469}\sqrt{205}e^{34}, \frac{3469}{3469}\sqrt{705}e^{14} + \frac{30}{3469}\sqrt{5}e^{26}$	$(-\frac{28}{3469}, \frac{13}{3469}, -\frac{1}{3469}, \frac{26}{3469}, \frac{12}{3469}, -\frac{15}{3469}, -\frac{29}{3469}, \frac{25}{3469}, -\frac{2}{3469})$ $+ \frac{3}{3469}\sqrt{470}e^2 \otimes e_5 + \frac{6}{3469}\sqrt{61}e^3 \otimes e_9$	{2346, 345}
941:115	$0, 0, 0, 0, 0, \frac{8}{719}\sqrt{462}e^{12}, \frac{24}{719}\sqrt{37}e^{13}, \frac{16}{719}\sqrt{282}e^{25} + \frac{8}{719}\sqrt{462}e^{34},$ $\frac{24}{719}\sqrt{113}e^{14} + \frac{8}{719}\sqrt{303}e^{26}$	$(\frac{68}{719}, -\frac{64}{719}, \frac{100}{719}, -\frac{128}{719}, \frac{36}{719}, \frac{4}{719}, \frac{168}{719}, -\frac{28}{719}, -\frac{60}{719})$ $+ \frac{8}{719}\sqrt{1065}e^5 \otimes e_9 + \frac{8}{719}\sqrt{921}e^1 \otimes e_8$	{139, 568}
941:116	$0, 0, 0, 0, 0, \frac{1}{1131}\sqrt{118430}e^{12}, \frac{1}{1131}\sqrt{697826}e^{13},$ $\frac{16}{1131}\sqrt{911}e^{23} + \frac{2}{377}\sqrt{6377}e^{45}, \frac{1}{1131}\sqrt{384442}e^{16} + \frac{5}{1131}\sqrt{30974}e^{24}$	$(-\frac{62}{1131}, \frac{171}{377}, -\frac{112}{377}, -\frac{124}{1131}, \frac{301}{1131}, \frac{451}{1131}, -\frac{398}{1131}, \frac{59}{377}, \frac{389}{1131})$ $+ \frac{2}{1131}\sqrt{435458}e^2 \otimes e_7$	{1234, 14679, 24568, 345789}
941:116	$0, 0, 0, 0, 0, \frac{3}{997}\sqrt{1810}e^{12}, \frac{3}{997}\sqrt{4610}e^{13}, \frac{3}{997}\sqrt{3230}e^{23} + \frac{6}{997}\sqrt{710}e^{45},$ $\frac{3}{997}\sqrt{1870}e^{16} + \frac{18}{997}\sqrt{130}e^{24}$	$(-\frac{30}{997}, \frac{99}{997}, -\frac{75}{997}, -\frac{60}{997}, \frac{84}{997}, \frac{69}{997}, -\frac{105}{997}, \frac{24}{997}, \frac{39}{997})$ $+ \frac{15}{997}\sqrt{122}e^5 \otimes e_9 + \frac{3}{997}\sqrt{6290}e^4 \otimes e_7$	{12679, 1578}
941:116	$0, 0, 0, 0, 0, \frac{47}{6661}\sqrt{770}e^{12}, \frac{47}{6661}\sqrt{3890}e^{13},$ $\frac{376}{6661}\sqrt{2}e^{23} + \frac{94}{6661}\sqrt{449}e^{45}, \frac{235}{6661}\sqrt{122}e^{16} + \frac{47}{6661}\sqrt{6270}e^{24}$	$(\frac{470}{6661}, \frac{1175}{6661}, -\frac{1504}{6661}, \frac{940}{6661}, -\frac{1269}{6661}, \frac{1645}{6661}, -\frac{1034}{6661}, -\frac{329}{6661}, \frac{2115}{6661})$ $+ \frac{188}{6661}\sqrt{334}e^4 \otimes e_5 + \frac{94}{6661}\sqrt{1742}e^2 \otimes e_7$	{123569, 157}
941:116	$0, 0, 0, 0, 0, \frac{4}{469}\sqrt{1254}e^{12}, \frac{6}{469}\sqrt{209}e^{13},$ $\frac{2}{469}\sqrt{10659}e^{23} + \frac{10}{469}\sqrt{1254}e^{45}, \frac{4}{469}\sqrt{7106}e^{16} + \frac{2}{469}\sqrt{14630}e^{24}$	$(-\frac{69}{469}, \frac{39}{469}, \frac{142}{469}, -\frac{138}{469}, \frac{319}{469}, -\frac{30}{469}, \frac{73}{469}, \frac{181}{469}, -\frac{99}{469})$ $+ \frac{6}{469}\sqrt{8987}e^5 \otimes e_9$	{129, 1568, 2679, 578}
941:116	$0, 0, 0, 0, 0, \frac{18}{559}\sqrt{2}e^{12}, \frac{25}{559}\sqrt{2}e^{13}, \frac{6}{559}\sqrt{10}e^{23} + \frac{1}{559}\sqrt{210}e^{45},$ $\frac{1}{559}\sqrt{506}e^{16} + \frac{1}{559}\sqrt{295}e^{24}$	$(\frac{15}{1118}, -\frac{23}{1118}, \frac{11}{1118}, \frac{15}{559}, -\frac{21}{559}, -\frac{4}{559}, \frac{1}{43}, -\frac{6}{559}, \frac{7}{1118})$ $+ \frac{1}{559}\sqrt{786}e^3 \otimes e_9 + \frac{2}{559}\sqrt{331}e^4 \otimes e_7$	{12679, 367}
941:116	$0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{219862}e^{12}, \frac{5}{1181}\sqrt{1266}e^{13},$ $\frac{1}{1181}\sqrt{115206}e^{23} + \frac{4}{1181}\sqrt{13082}e^{45}, \frac{6}{1181}\sqrt{7174}e^{16} + \frac{2}{1181}\sqrt{61190}e^{24}$	$(\frac{123}{1181}, -\frac{52}{1181}, -\frac{36}{1181}, \frac{246}{1181}, \frac{334}{1181}, \frac{71}{1181}, \frac{87}{1181}, -\frac{88}{1181}, \frac{194}{1181})$ $+ \frac{1}{1181}\sqrt{430018}e^1 \otimes e_8$	{1234579, 1456, 246789, 348}
941:116	$0, 0, 0, 0, 0, \frac{1}{281}\sqrt{27186}e^{12}, \frac{9}{281}\sqrt{394}e^{13}, \frac{12}{281}\sqrt{197}e^{23} + \frac{2}{281}\sqrt{4137}e^{45},$ $\frac{1}{281}\sqrt{13790}e^{16} + \frac{1}{281}\sqrt{37430}e^{24}$	$(-\frac{6}{281}, -\frac{57}{281}, \frac{128}{281}, -\frac{12}{281}, \frac{83}{281}, -\frac{63}{281}, \frac{122}{281}, \frac{71}{281}, -\frac{69}{281})$ $+ \frac{4}{281}\sqrt{5910}e^3 \otimes e_9$	{12346, 1479, 2347, 469}
941:116	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{1}{17}\sqrt{2}e^{13}, \frac{1}{17}\sqrt{14}e^{23} + \frac{2}{17}\sqrt{5}e^{45},$ $\frac{2}{17}\sqrt{6}e^{16} + \frac{2}{17}\sqrt{5}e^{24}$	$(\frac{1}{17}, \frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{1}{17}, \frac{3}{17})$ $+ \frac{1}{17}\sqrt{14}e^2 \otimes e_7 + \frac{1}{17}\sqrt{46}e^1 \otimes e_8$	{123459, 14567, 24689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:116	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{1}{17}\sqrt{2}e^{13}, \frac{1}{17}\sqrt{14}e^{23} + \frac{2}{17}\sqrt{5}e^{45},$ $\frac{2}{17}\sqrt{6}e^{16} + \frac{2}{17}\sqrt{5}e^{24}$	$(\frac{1}{17}, \frac{1}{17}, -\frac{2}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{2}{17}, -\frac{1}{17}, -\frac{1}{17}, \frac{3}{17})$ $-\frac{1}{17}\sqrt{14}e^2 \otimes e_7 + \frac{1}{17}\sqrt{46}e^1 \otimes e_8$	{123459, 14567, 24689, 3478}
941:116	$0, 0, 0, 0, 0, \frac{25}{71}e^{12}, \frac{5}{71}\sqrt{55}e^{13}, \frac{5}{71}\sqrt{3}e^{23} + \frac{5}{71}\sqrt{13}e^{45},$ $\frac{5}{71}e^{16} + \frac{5}{71}\sqrt{31}e^{24}$	$(-\frac{15}{142}, \frac{5}{142}, \frac{25}{142}, -\frac{15}{71}, \frac{30}{71}, -\frac{5}{71}, \frac{5}{71}, \frac{15}{71}, -\frac{25}{142})$ $+\frac{5}{71}\sqrt{59}e^5 \otimes e_7 + \frac{5}{71}\sqrt{69}e^3 \otimes e_9$	{1358, 2589}
941:116	$0, 0, 0, 0, 0, \frac{79}{133}e^{12}, \frac{1}{133}\sqrt{8295}e^{13}, \frac{1}{133}\sqrt{4503}e^{23} + \frac{2}{133}\sqrt{869}e^{45},$ $\frac{1}{19}\sqrt{158}e^{16} + \frac{3}{133}\sqrt{2370}e^{24}$	$(\frac{153}{532}, -\frac{53}{532}, \frac{33}{532}, \frac{153}{266}, -\frac{163}{266}, \frac{25}{133}, \frac{93}{266}, -\frac{5}{133}, \frac{253}{532})$ $+\frac{1}{133}\sqrt{35629}e^4 \otimes e_5$	{125679, 135, 259, 3567}
941:116	$0, 0, 0, 0, 0, \frac{17}{3461}\sqrt{1678}e^{12}, \frac{17}{3461}\sqrt{246}e^{13},$ $\frac{68}{3461}\sqrt{105}e^{23} + \frac{68}{3461}\sqrt{110}e^{45}, \frac{51}{3461}\sqrt{314}e^{16} + \frac{17}{3461}\sqrt{1802}e^{24}$	$(\frac{204}{3461}, -\frac{391}{3461}, \frac{306}{3461}, \frac{408}{3461}, -\frac{493}{3461}, -\frac{187}{3461}, \frac{510}{3461}, -\frac{85}{3461}, \frac{17}{3461})$ $+\frac{68}{3461}\sqrt{274}e^1 \otimes e_8 + \frac{714}{3461}e^3 \otimes e_9$	{24689, 3478}
941:116	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{58}e^{12}, \frac{2}{139}\sqrt{3799}e^{13}, \frac{3}{139}\sqrt{870}e^{23} + \frac{2}{139}\sqrt{3190}e^{45},$ $\frac{2}{139}\sqrt{1015}e^{16} + \frac{1}{139}\sqrt{1798}e^{24}$	$(-\frac{21}{139}, \frac{53}{139}, -\frac{11}{139}, -\frac{42}{139}, \frac{84}{139}, \frac{32}{139}, -\frac{32}{139}, \frac{42}{139}, \frac{11}{139})$ $+\frac{1}{139}\sqrt{27434}e^5 \otimes e_7$	{1235689, 12679, 367, 568}
941:116	$0, 0, 0, 0, 0, \frac{11}{149}\sqrt{2}e^{12}, \frac{1}{149}\sqrt{66}e^{13}, \frac{2}{149}\sqrt{33}e^{23} + \frac{2}{149}\sqrt{55}e^{45},$ $\frac{1}{149}\sqrt{286}e^{16} + \frac{1}{149}\sqrt{330}e^{24}$	$(0, \frac{5}{149}, -\frac{6}{149}, 0, -\frac{1}{149}, \frac{5}{149}, -\frac{6}{149}, -\frac{1}{149}, \frac{5}{149})$ $+\frac{2}{149}\sqrt{102}e^1 \otimes e_8 + \frac{2}{149}\sqrt{41}e^4 \otimes e_5$	{1234579, 1456}
941:116	$0, 0, 0, 0, 0, \frac{27}{6781}\sqrt{1778}e^{12}, \frac{27}{6781}\sqrt{4474}e^{13},$ $\frac{108}{6781}\sqrt{165}e^{23} + \frac{54}{6781}\sqrt{573}e^{45}, \frac{513}{6781}\sqrt{2}e^{16} + \frac{81}{6781}\sqrt{582}e^{24}$	$(-\frac{486}{6781}, \frac{459}{6781}, \frac{216}{6781}, -\frac{972}{6781}, \frac{1647}{6781}, -\frac{27}{6781}, -\frac{270}{6781}, \frac{675}{6781}, -\frac{513}{6781})$ $+\frac{108}{6781}\sqrt{409}e^3 \otimes e_9 + \frac{216}{6781}\sqrt{94}e^2 \otimes e_7$	{289, 3678}
941:116	$0, 0, 0, 0, 0, \frac{9}{479}\sqrt{262}e^{12}, \frac{9}{479}\sqrt{110}e^{13}, \frac{9}{479}\sqrt{78}e^{23} + \frac{36}{479}\sqrt{23}e^{45},$ $\frac{108}{479}\sqrt{2}e^{16} + \frac{36}{479}\sqrt{14}e^{24}$	$(\frac{45}{479}, 0, -\frac{36}{479}, \frac{90}{479}, -\frac{126}{479}, \frac{45}{479}, \frac{9}{479}, -\frac{36}{479}, \frac{90}{479})$ $+\frac{36}{479}\sqrt{13}e^4 \otimes e_7 + \frac{9}{479}\sqrt{634}e^1 \otimes e_8$	{123459, 24689}
941:116	$0, 0, 0, 0, 0, \frac{72}{2689}\sqrt{6}e^{12}, \frac{6}{2689}\sqrt{157}e^{13}, \frac{6}{2689}\sqrt{335}e^{23} + \frac{138}{2689}\sqrt{2}e^{45},$ $\frac{6}{2689}\sqrt{1222}e^{16} + \frac{12}{2689}\sqrt{205}e^{24}$	$(\frac{21}{2689}, -\frac{99}{2689}, \frac{102}{2689}, \frac{42}{2689}, -\frac{39}{2689}, -\frac{78}{2689}, \frac{123}{2689}, \frac{3}{2689}, -\frac{57}{2689})$ $+\frac{6}{2689}\sqrt{1670}e^1 \otimes e_8 + \frac{6}{2689}\sqrt{739}e^5 \otimes e_9$	{1456, 246789}
941:116	$0, 0, 0, 0, 0, \frac{24}{2071}\sqrt{1085}e^{12}, \frac{4}{2071}\sqrt{100310}e^{13},$ $\frac{8}{2071}\sqrt{14595}e^{23} + \frac{16}{2071}\sqrt{2415}e^{45}, \frac{8}{2071}\sqrt{14630}e^{16} + \frac{4}{2071}\sqrt{87430}e^{24}$	$(\frac{135}{2071}, \frac{317}{2071}, -\frac{425}{2071}, \frac{270}{2071}, -\frac{378}{2071}, \frac{452}{2071}, -\frac{290}{2071}, -\frac{108}{2071}, \frac{587}{2071})$ $+\frac{28}{2071}\sqrt{2710}e^4 \otimes e_7$	{12679, 1578, 235789, 367}
941:116	$0, 0, 0, 0, 0, \frac{92}{2409}\sqrt{26}e^{12}, \frac{46}{2409}\sqrt{413}e^{13}, \frac{46}{2409}\sqrt{5}e^{23} + \frac{46}{803}\sqrt{22}e^{45},$ $\frac{46}{2409}\sqrt{62}e^{16} + \frac{92}{2409}\sqrt{170}e^{24}$	$(-\frac{299}{2409}, \frac{207}{803}, -\frac{46}{803}, -\frac{598}{2409}, \frac{1081}{2409}, \frac{322}{2409}, -\frac{437}{2409}, \frac{161}{803}, \frac{23}{2409})$ $+\frac{46}{2409}\sqrt{1130}e^2 \otimes e_7 + \frac{46}{803}\sqrt{111}e^5 \otimes e_9$	{1239, 3578}
941:116	$0, 0, 0, 0, 0, \frac{6}{287}\sqrt{42}e^{12}, \frac{3}{287}\sqrt{58}e^{13}, \frac{12}{287}\sqrt{3}e^{23} + \frac{12}{287}\sqrt{15}e^{45},$ $\frac{6}{287}\sqrt{46}e^{16} + \frac{3}{287}\sqrt{194}e^{24}$	$(\frac{3}{287}, \frac{18}{287}, -\frac{24}{287}, \frac{6}{287}, -\frac{12}{287}, \frac{3}{287}, -\frac{3}{287}, -\frac{6}{287}, \frac{24}{287})$ $+\frac{3}{287}\sqrt{158}e^5 \otimes e_7 + \frac{3}{287}\sqrt{358}e^1 \otimes e_8$	{123459, 3478}
941:117	$0, 0, 0, 0, 0, \frac{1}{4069}\sqrt{2170}e^{12}, \frac{3}{4069}\sqrt{478}e^{13},$ $\frac{1}{4069}\sqrt{3306}e^{25} + \frac{1}{4069}\sqrt{3770}e^{34}, \frac{2}{4069}\sqrt{427}e^{16} + \frac{8}{4069}\sqrt{65}e^{24}$	$(\frac{17}{4069}, -\frac{19}{4069}, -\frac{37}{4069}, \frac{34}{4069}, \frac{16}{4069}, -\frac{2}{4069}, -\frac{20}{4069}, -\frac{3}{4069}, \frac{15}{4069})$ $+\frac{24}{4069}\sqrt{5}e^5 \otimes e_9 + \frac{40}{4069}\sqrt{3}e^2 \otimes e_7$	{1578, 289}
941:117	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{442}e^{12}, \frac{1}{53}\sqrt{1326}e^{13}, \frac{1}{53}\sqrt{714}e^{25} + \frac{1}{53}\sqrt{986}e^{34},$ $\frac{2}{53}\sqrt{187}e^{16} + \frac{8}{53}\sqrt{17}e^{24}$	$(\frac{1}{53}, \frac{13}{53}, -\frac{5}{53}, \frac{2}{53}, -\frac{16}{53}, \frac{14}{53}, -\frac{4}{53}, -\frac{3}{53}, \frac{15}{53})$ $+\frac{4}{53}\sqrt{102}e^2 \otimes e_7$	{123569, 1578, 289, 367}
941:117	$0, 0, 0, 0, 0, \frac{16}{425}\sqrt{134}e^{12}, \frac{32}{425}\sqrt{42}e^{13}, \frac{16}{425}\sqrt{66}e^{25} + \frac{16}{425}\sqrt{61}e^{34},$ $\frac{16}{425}\sqrt{55}e^{16} + \frac{16}{425}\sqrt{203}e^{24}$	$(\frac{56}{425}, -\frac{4}{17}, -\frac{72}{425}, \frac{112}{425}, \frac{28}{85}, -\frac{44}{425}, -\frac{16}{425}, \frac{8}{85}, \frac{12}{425})$ $+\frac{16}{425}\sqrt{219}e^4 \otimes e_7 + \frac{48}{425}\sqrt{19}e^5 \otimes e_9$	{126789, 1578}
941:117	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1770}e^{12}, \frac{3}{71}\sqrt{118}e^{13}, \frac{3}{71}\sqrt{354}e^{25} + \frac{1}{71}\sqrt{1770}e^{34},$ $\frac{2}{71}\sqrt{413}e^{16} + \frac{2}{71}\sqrt{590}e^{24}$	$(\frac{3}{71}, -\frac{21}{71}, \frac{17}{71}, \frac{6}{71}, \frac{44}{71}, -\frac{18}{71}, \frac{20}{71}, \frac{23}{71}, -\frac{15}{71})$ $+\frac{2}{71}\sqrt{1770}e^5 \otimes e_9$	{124567, 1479, 245, 469}
941:117	$0, 0, 0, 0, 0, \frac{3}{166}\sqrt{210}e^{12}, \frac{3}{166}\sqrt{690}e^{13}, \frac{3}{166}\sqrt{186}e^{25} + \frac{9}{83}\sqrt{2}e^{34},$ $\frac{3}{166}\sqrt{510}e^{16} + \frac{9}{166}\sqrt{110}e^{24}$	$(\frac{15}{166}, \frac{45}{332}, -\frac{39}{166}, \frac{15}{83}, -\frac{63}{332}, \frac{75}{332}, -\frac{12}{83}, -\frac{9}{166}, \frac{105}{332})$ $+\frac{3}{166}\sqrt{714}e^2 \otimes e_5 + \frac{3}{83}\sqrt{282}e^4 \otimes e_7$	{2379, 3567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:117	$0, 0, 0, 0, 0, \frac{16}{589}\sqrt{163e^{12}}, \frac{16}{589}\sqrt{70e^{13}}, \frac{8}{589}\sqrt{186e^{25}} + \frac{16}{589}\sqrt{163e^{34}},$ $\frac{8}{589}\sqrt{714e^{16}} + \frac{48}{589}\sqrt{19e^{24}}$	$(\frac{46}{589}, -\frac{1}{589}, -\frac{110}{589}, \frac{92}{589}, -\frac{17}{589}, \frac{45}{589}, -\frac{64}{589}, -\frac{18}{589}, \frac{91}{589})$ $+ \frac{24}{589}\sqrt{114e^1} \otimes e_8$	{1234579, 13467, 246789, 4578}
941:117	$0, 0, 0, 0, 0, \frac{1}{3301}\sqrt{2478e^{12}}, \frac{10}{3301}\sqrt{7e^{13}}, \frac{4}{3301}\sqrt{39e^{25}} + \frac{8}{3301}\sqrt{47e^{34}},$ $\frac{4}{3301}\sqrt{201e^{16}} + \frac{1}{3301}\sqrt{2346e^{24}}$	$(\frac{9}{3301}, -\frac{29}{3301}, -\frac{10}{3301}, \frac{18}{3301}, \frac{37}{3301}, -\frac{20}{3301}, -\frac{1}{3301}, \frac{8}{3301}, -\frac{11}{3301})$ $+ \frac{1}{3301}\sqrt{1590e^3} \otimes e_9 + \frac{1}{3301}\sqrt{4314e^1} \otimes e_8$	{13467, 246789}
941:117	$0, 0, 0, 0, 0, \frac{12}{571}\sqrt{93e^{12}}, \frac{6}{571}\sqrt{1005e^{13}}, \frac{36}{571}\sqrt{11e^{25}} + \frac{18}{571}\sqrt{59e^{34}},$ $\frac{6}{571}\sqrt{399e^{16}} + \frac{18}{571}\sqrt{97e^{24}}$	$(-\frac{36}{571}, \frac{87}{571}, \frac{69}{571}, -\frac{72}{571}, -\frac{90}{571}, \frac{51}{571}, \frac{33}{571}, -\frac{3}{571}, \frac{15}{571})$ $+ \frac{12}{571}\sqrt{258e^2} \otimes e_7 + \frac{6}{571}\sqrt{555e^3} \otimes e_9$	{289, 367}
941:117	$0, 0, 0, 0, 0, \frac{22}{101}\sqrt{10e^{12}}, \frac{4}{101}\sqrt{451e^{13}}, \frac{4}{101}\sqrt{330e^{25}} + \frac{22}{101}\sqrt{10e^{34}},$ $\frac{2}{101}\sqrt{770e^{16}} + \frac{2}{101}\sqrt{682e^{24}}$	$(\frac{16}{101}, -\frac{28}{101}, -\frac{19}{101}, \frac{32}{101}, \frac{41}{101}, -\frac{12}{101}, -\frac{3}{101}, \frac{13}{101}, \frac{4}{101})$ $+ \frac{2}{101}\sqrt{2046e^5} \otimes e_7$	{123569, 126789, 367, 568}
941:117	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{817e^{12}}, \frac{1}{35}\sqrt{133e^{13}}, \frac{1}{35}\sqrt{399e^{25}} + \frac{2}{35}\sqrt{19e^{34}},$ $\frac{1}{35}\sqrt{57e^{16}} + \frac{1}{35}\sqrt{741e^{24}}$	$(-\frac{1}{14}, \frac{79}{140}, \frac{13}{70}, -\frac{1}{7}, -\frac{73}{140}, \frac{69}{140}, \frac{4}{35}, \frac{3}{70}, \frac{59}{140})$ $+ \frac{3}{35}\sqrt{247e^2} \otimes e_5$	{12347, 1345679, 2346, 3459}
941:117	$0, 0, 0, 0, 0, \frac{20}{587}\sqrt{141e^{12}}, \frac{2}{587}\sqrt{35485e^{13}},$ $\frac{12}{587}\sqrt{235e^{25}} + \frac{2}{587}\sqrt{24205e^{34}}, \frac{2}{587}\sqrt{21385e^{16}} + \frac{2}{587}\sqrt{38305e^{24}}$	$(-\frac{84}{587}, \frac{31}{587}, \frac{333}{587}, -\frac{168}{587}, \frac{134}{587}, -\frac{53}{587}, \frac{249}{587}, \frac{165}{587}, -\frac{137}{587})$ $+ \frac{2}{587}\sqrt{114915e^3} \otimes e_9$	{12346, 14789, 2347, 4689}
941:117	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{2e^{12}}, \frac{1}{68}\sqrt{190e^{13}}, \frac{3}{34}\sqrt{2e^{25}} + \frac{11}{68}\sqrt{2e^{34}},$ $\frac{1}{34}\sqrt{78e^{16}} + \frac{1}{17}\sqrt{21e^{24}}$	$(0, \frac{5}{68}, -\frac{1}{34}, 0, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68})$ $+ \frac{1}{68}\sqrt{138e^4} \otimes e_7 + \frac{1}{68}\sqrt{366e^1} \otimes e_8$	{1234579, 13467, 246789, 4578}
941:117	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{2e^{12}}, \frac{1}{68}\sqrt{190e^{13}}, \frac{3}{34}\sqrt{2e^{25}} + \frac{11}{68}\sqrt{2e^{34}},$ $\frac{1}{34}\sqrt{78e^{16}} + \frac{1}{17}\sqrt{21e^{24}}$	$(0, \frac{5}{68}, -\frac{1}{34}, 0, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68})$ $- \frac{1}{68}\sqrt{138e^4} \otimes e_7 + \frac{1}{68}\sqrt{366e^1} \otimes e_8$	{1234579, 13467, 246789, 4578}
941:117	$0, 0, 0, 0, 0, \frac{100}{593}\sqrt{6e^{12}}, \frac{50}{593}\sqrt{37e^{13}}, \frac{15}{593}\sqrt{230e^{25}} + \frac{5}{593}\sqrt{1730e^{34}},$ $\frac{20}{593}\sqrt{65e^{16}} + \frac{20}{593}\sqrt{115e^{24}}$	$(\frac{15}{593}, -\frac{110}{593}, \frac{45}{593}, \frac{30}{593}, \frac{185}{593}, -\frac{95}{593}, \frac{60}{593}, \frac{75}{593}, -\frac{80}{593})$ $+ \frac{15}{593}\sqrt{390e^5} \otimes e_7 + \frac{5}{593}\sqrt{2010e^3} \otimes e_9$	{126789, 367}
941:117	$0, 0, 0, 0, 0, \frac{7}{451}\sqrt{494e^{12}}, \frac{28}{451}\sqrt{13e^{13}}, \frac{84}{451}e^{25} + \frac{14}{451}\sqrt{123e^{34}},$ $\frac{42}{451}\sqrt{15e^{16}} + \frac{14}{451}\sqrt{129e^{24}}$	$(\frac{35}{451}, 0, -\frac{84}{451}, \frac{70}{451}, -\frac{14}{451}, \frac{35}{451}, -\frac{49}{451}, -\frac{14}{451}, \frac{70}{451})$ $+ \frac{14}{451}\sqrt{195e^1} \otimes e_8 + \frac{7}{451}\sqrt{6e^2} \otimes e_7$	{13467, 4578}
941:117	$0, 0, 0, 0, 0, \frac{36}{253}\sqrt{5e^{12}}, \frac{3}{253}\sqrt{246e^{13}}, \frac{36}{253}\sqrt{2e^{25}} + \frac{36}{253}\sqrt{5e^{34}},$ $\frac{12}{253}\sqrt{51e^{16}} + \frac{3}{253}\sqrt{786e^{24}}$	$(\frac{21}{253}, -\frac{6}{253}, -\frac{48}{253}, \frac{42}{253}, 0, \frac{15}{253}, -\frac{27}{253}, -\frac{6}{253}, \frac{36}{253})$ $+ \frac{3}{253}\sqrt{102e^5} \otimes e_7 + \frac{3}{253}\sqrt{1230e^1} \otimes e_8$	{13467, 246789}
941:117	$0, 0, 0, 0, 0, \frac{86}{4405}\sqrt{138e^{12}}, \frac{86}{4405}\sqrt{283e^{13}},$ $\frac{258}{4405}\sqrt{29e^{25}} + \frac{43}{4405}\sqrt{886e^{34}}, \frac{43}{4405}\sqrt{538e^{16}} + \frac{43}{4405}\sqrt{2626e^{24}}$	$(-\frac{129}{881}, \frac{1118}{4405}, \frac{1677}{4405}, -\frac{258}{881}, -\frac{731}{4405}, \frac{473}{4405}, \frac{1032}{4405}, \frac{387}{4405}, -\frac{172}{4405})$ $+ \frac{129}{4405}\sqrt{382e^2} \otimes e_5 + \frac{86}{4405}\sqrt{1110e^3} \otimes e_9$	{1279, 269}
941:117	$0, 0, 0, 0, 0, \frac{13}{5233}\sqrt{2874e^{12}}, \frac{13}{5233}\sqrt{4838e^{13}},$ $\frac{26}{5233}\sqrt{165e^{25}} + \frac{13}{5233}\sqrt{410e^{34}}, \frac{156}{5233}\sqrt{11e^{16}} + \frac{39}{5233}\sqrt{562e^{24}}$	$(\frac{117}{5233}, -\frac{455}{5233}, -\frac{52}{5233}, \frac{234}{5233}, \frac{637}{5233}, -\frac{338}{5233}, \frac{65}{5233}, \frac{182}{5233}, -\frac{221}{5233})$ $+ \frac{13}{5233}\sqrt{4530e^3} \otimes e_9 + \frac{13}{5233}\sqrt{5322e^4} \otimes e_7$	{12679, 3678}
941:117	$0, 0, 0, 0, 0, \frac{4}{533}\sqrt{7826e^{12}}, \frac{4}{533}\sqrt{13287e^{13}}, \frac{4}{533}\sqrt{645e^{25}} + \frac{20}{533}\sqrt{43e^{34}},$ $\frac{4}{533}\sqrt{8041e^{16}} + \frac{4}{533}\sqrt{13502e^{24}}$	$(\frac{122}{533}, -\frac{55}{533}, -\frac{222}{533}, \frac{244}{533}, \frac{77}{533}, \frac{67}{533}, -\frac{100}{533}, \frac{22}{533}, \frac{189}{533})$ $+ \frac{4}{533}\sqrt{20253e^4} \otimes e_7$	{1256789, 178, 2379, 3567}
941:117	$0, 0, 0, 0, 0, \frac{4}{113}\sqrt{33e^{12}}, \frac{1}{113}\sqrt{222e^{13}}, \frac{1}{113}\sqrt{282e^{25}} + \frac{4}{113}\sqrt{33e^{34}},$ $\frac{2}{113}\sqrt{177e^{16}} + \frac{1}{113}\sqrt{546e^{24}}$	$(\frac{7}{113}, -\frac{19}{226}, -\frac{13}{113}, \frac{14}{113}, \frac{21}{226}, -\frac{5}{226}, -\frac{6}{113}, \frac{1}{113}, \frac{9}{226})$ $+ \frac{1}{113}\sqrt{258e^5} \otimes e_9 + \frac{2}{113}\sqrt{237e^1} \otimes e_8$	{246789, 4578}
941:117	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{166e^{12}}, \frac{2}{77}\sqrt{70e^{13}}, \frac{2}{77}\sqrt{42e^{25}} + \frac{8}{77}\sqrt{10e^{34}},$ $\frac{2}{77}\sqrt{174e^{16}} + \frac{18}{77}\sqrt{2e^{24}}$	$(\frac{5}{77}, \frac{5}{154}, -\frac{13}{77}, \frac{10}{77}, -\frac{1}{14}, \frac{15}{154}, -\frac{8}{77}, -\frac{3}{77}, \frac{25}{154})$ $+ \frac{12}{77}\sqrt{7e^1} \otimes e_8 + \frac{6}{77}\sqrt{2e^2} \otimes e_5$	{246789, 4578}
941:118	$0, 0, 0, 0, 0, \frac{28}{85}\sqrt{2e^{12}}, \frac{7}{85}\sqrt{5e^{14}} + \frac{28}{85}\sqrt{2e^{23}},$ $\frac{21}{85}\sqrt{3e^{13}} + \frac{7}{85}\sqrt{6e^{25}}, \frac{7}{85}\sqrt{37e^{16}}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, \frac{42}{85}, -\frac{28}{85}, \frac{7}{85}, \frac{28}{85}, -\frac{7}{85}, -\frac{7}{85})$ $+ \frac{63}{85}e^2 \otimes e_5 - \frac{7}{85}\sqrt{70e^4} \otimes e_9$	{1279, 1456, 2369, 3457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:118	$0, 0, 0, 0, 0, \frac{28}{85}\sqrt{2}e^{12}, \frac{7}{85}\sqrt{5}e^{14} + \frac{28}{85}\sqrt{2}e^{23},$ $\frac{21}{85}\sqrt{3}e^{13} + \frac{7}{85}\sqrt{6}e^{25}, \frac{7}{85}\sqrt{37}e^{16}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, \frac{42}{85}, -\frac{28}{85}, \frac{7}{85}, \frac{28}{85}, -\frac{7}{85}, -\frac{7}{85})$ $+\frac{63}{85}e^2 \otimes e_5 + \frac{7}{85}\sqrt{70}e^4 \otimes e_9$	{1279, 1456, 2369, 3457}
941:118	$0, 0, 0, 0, 0, \frac{14}{155}\sqrt{87}e^{12}, \frac{7}{155}\sqrt{195}e^{14} + \frac{14}{155}\sqrt{87}e^{23},$ $\frac{7}{155}\sqrt{123}e^{13} + \frac{84}{155}e^{25}, \frac{21}{155}\sqrt{17}e^{16}$	$(-\frac{7}{155}, \frac{63}{155}, -\frac{14}{155}, \frac{56}{155}, -\frac{84}{155}, \frac{56}{155}, \frac{49}{155}, -\frac{21}{155}, \frac{49}{155})$ $+\frac{7}{155}\sqrt{789}e^2 \otimes e_5$	{12479, 156, 23469, 357}
941:118	$0, 0, 0, 0, 0, \frac{12}{2501}\sqrt{13490}e^{12}, \frac{12}{2501}\sqrt{24985}e^{14} + \frac{12}{2501}\sqrt{12065}e^{23},$ $\frac{6}{2501}\sqrt{51395}e^{13} + \frac{6}{2501}\sqrt{98230}e^{25}, \frac{18}{2501}\sqrt{570}e^{16}$	$(\frac{460}{2501}, -\frac{625}{2501}, \frac{382}{2501}, -\frac{703}{2501}, \frac{1467}{2501}, -\frac{165}{2501}, \frac{243}{2501}, \frac{842}{2501}, \frac{295}{2501})$ $+\frac{12}{2501}\sqrt{51110}e^5 \otimes e_7$	{2359, 24789, 3467, 568}
941:118	$0, 0, 0, 0, 0, \frac{4}{161}\sqrt{85}e^{12}, \frac{10}{161}\sqrt{170}e^{14} + \frac{4}{161}\sqrt{85}e^{23},$ $\frac{6}{161}\sqrt{255}e^{13} + \frac{2}{161}\sqrt{1785}e^{25}, \frac{2}{161}\sqrt{3910}e^{16}$	$(-\frac{37}{161}, \frac{15}{161}, \frac{59}{161}, \frac{111}{161}, \frac{1}{23}, -\frac{22}{161}, \frac{74}{161}, \frac{22}{161}, -\frac{59}{161})$ $+\frac{2}{161}\sqrt{11305}e^4 \otimes e_9$	{12456, 179, 23457, 369}
941:118	$0, 0, 0, 0, 0, \frac{1}{596}\sqrt{111435}e^{12}, \frac{21}{298}\sqrt{115}e^{14} + \frac{1}{596}\sqrt{111435}e^{23},$ $\frac{13}{596}\sqrt{690}e^{13} + \frac{25}{298}\sqrt{69}e^{25}, \frac{3}{298}\sqrt{2530}e^{16}$	$(-\frac{205}{1192}, \frac{35}{149}, \frac{119}{1192}, \frac{151}{298}, -\frac{183}{596}, \frac{75}{1192}, \frac{399}{1192}, -\frac{43}{596}, -\frac{65}{596})$ $+\frac{23}{596}\sqrt{690}e^4 \otimes e_8$	{134, 1578, 3568, 467}
941:118	$0, 0, 0, 0, 0, \frac{11}{690}\sqrt{602}e^{12}, \frac{11}{690}\sqrt{462}e^{14} + \frac{11}{690}\sqrt{2}e^{23},$ $\frac{11}{690}\sqrt{78}e^{13} + \frac{11}{345}\sqrt{67}e^{25}, \frac{11}{345}\sqrt{262}e^{16}$	$(\frac{44}{345}, -\frac{22}{115}, \frac{11}{115}, -\frac{77}{345}, \frac{143}{345}, -\frac{22}{345}, -\frac{11}{115}, \frac{77}{345}, \frac{22}{345})$ $+\frac{11}{345}\sqrt{337}e^1 \otimes e_4 + \frac{11}{690}\sqrt{1142}e^5 \otimes e_9$	{1289, 3458}
941:118	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{410}e^{12}, \frac{1}{435}\sqrt{6330}e^{14} + \frac{2}{435}\sqrt{195}e^{23},$ $\frac{2}{87}\sqrt{6}e^{13} + \frac{2}{435}\sqrt{1410}e^{25}, \frac{1}{145}\sqrt{230}e^{16}$	$(-\frac{1}{29}, -\frac{1}{29}, \frac{2}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{3}{29})$ $+\frac{1}{435}\sqrt{6510}e^4 \otimes e_8 + \frac{2}{435}\sqrt{1455}e^5 \otimes e_7$	{3568, 467}
941:118	$0, 0, 0, 0, 0, \frac{6}{2489}\sqrt{5555}e^{12}, \frac{42}{2489}\sqrt{1414}e^{14} + \frac{6}{2489}\sqrt{102515}e^{23},$ $\frac{6}{2489}\sqrt{58883}e^{13} + \frac{6}{2489}\sqrt{40198}e^{25}, \frac{72}{2489}\sqrt{606}e^{16}$	$(-\frac{357}{2489}, -\frac{213}{2489}, \frac{891}{2489}, \frac{1035}{2489}, \frac{747}{2489}, -\frac{30}{131}, \frac{678}{2489}, \frac{534}{2489}, -\frac{927}{2489})$ $+\frac{12}{2489}\sqrt{54035}e^3 \otimes e_9$	{1236, 189, 23458, 4569}
941:118	$0, 0, 0, 0, 0, \frac{6}{2489}\sqrt{102515}e^{12}, \frac{42}{2489}\sqrt{1414}e^{14} + \frac{6}{2489}\sqrt{5555}e^{23},$ $\frac{6}{2489}\sqrt{58883}e^{13} + \frac{6}{2489}\sqrt{40198}e^{25}, \frac{72}{2489}\sqrt{606}e^{16}$	$(\frac{713}{2489}, -\frac{213}{2489}, -\frac{179}{2489}, -\frac{1105}{2489}, \frac{747}{2489}, \frac{500}{2489}, \frac{392}{2489}, \frac{534}{2489}, \frac{1213}{2489})$ $+\frac{12}{2489}\sqrt{54035}e^1 \otimes e_4$	{12589, 1356, 2469, 348}
941:118	$0, 0, 0, 0, 0, \frac{7}{85}\sqrt{38}e^{12}, \frac{7}{17}\sqrt{3}e^{14} + \frac{7}{85}\sqrt{38}e^{23},$ $\frac{7}{85}\sqrt{43}e^{13} + \frac{56}{85}e^{25}, \frac{7}{85}\sqrt{33}e^{16}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, \frac{42}{85}, -\frac{28}{85}, \frac{7}{85}, \frac{28}{85}, -\frac{7}{85}, -\frac{7}{85})$ $+\frac{14}{85}\sqrt{35}e^4 \otimes e_8 + \frac{7}{85}\sqrt{11}e^2 \otimes e_5$	{1578, 3568}
941:118	$0, 0, 0, 0, 0, \frac{14}{185}\sqrt{38}e^{12}, \frac{7}{555}\sqrt{915}e^{14} + \frac{28}{555}\sqrt{33}e^{23},$ $\frac{7}{555}\sqrt{237}e^{13} + \frac{28}{555}\sqrt{39}e^{25}, \frac{7}{185}\sqrt{97}e^{16}$	$(\frac{21}{185}, \frac{21}{185}, -\frac{28}{185}, -\frac{28}{185}, -\frac{28}{185}, \frac{42}{185}, -\frac{7}{185}, -\frac{7}{185}, \frac{63}{185})$ $+\frac{28}{555}\sqrt{105}e^1 \otimes e_4 + \frac{7}{555}\sqrt{1389}e^2 \otimes e_5$	{1239, 45}
941:118	$0, 0, 0, 0, 0, \frac{11}{815}\sqrt{870}e^{12}, \frac{231}{815}\sqrt{2}e^{14} + \frac{22}{815}\sqrt{3}e^{23},$ $\frac{22}{815}\sqrt{330}e^{13} + \frac{22}{815}\sqrt{222}e^{25}, \frac{33}{815}\sqrt{2}e^{16}$	$(-\frac{143}{815}, \frac{77}{815}, \frac{154}{815}, \frac{374}{815}, -\frac{66}{815}, -\frac{66}{815}, \frac{231}{815}, \frac{11}{815}, -\frac{209}{815})$ $+\frac{11}{815}\sqrt{2634}e^4 \otimes e_8 + \frac{462}{815}e^3 \otimes e_9$	{123456, 238}
941:118	$0, 0, 0, 0, 0, \frac{2}{641}\sqrt{1385}e^{12}, \frac{4}{641}\sqrt{277}e^{14} + \frac{2}{641}\sqrt{1385}e^{23},$ $\frac{6}{641}\sqrt{4155}e^{13} + \frac{2}{641}\sqrt{72574}e^{25}, \frac{4}{641}\sqrt{18005}e^{16}$	$(-\frac{13}{641}, -\frac{149}{641}, \frac{243}{641}, \frac{107}{641}, \frac{379}{641}, -\frac{162}{641}, \frac{94}{641}, \frac{230}{641}, -\frac{175}{641})$ $+\frac{2}{641}\sqrt{149026}e^5 \otimes e_9$	{1256, 1479, 2357, 3469}
941:118	$0, 0, 0, 0, 0, \frac{7}{555}\sqrt{33}e^{12}, \frac{7}{555}\sqrt{915}e^{14} + \frac{14}{185}\sqrt{38}e^{23},$ $\frac{7}{555}\sqrt{237}e^{13} + \frac{28}{555}\sqrt{39}e^{25}, \frac{7}{185}\sqrt{97}e^{16}$	$(-\frac{77}{555}, \frac{21}{185}, \frac{56}{555}, \frac{196}{555}, -\frac{28}{185}, -\frac{14}{185}, \frac{119}{555}, -\frac{7}{185}, -\frac{91}{555})$ $+\frac{28}{555}\sqrt{105}e^3 \otimes e_9 + \frac{7}{555}\sqrt{1389}e^2 \otimes e_5$	{134567, 2679}
941:118	$0, 0, 0, 0, 0, \frac{11}{890}\sqrt{586}e^{12}, \frac{11}{890}\sqrt{14}e^{14} + \frac{11}{890}\sqrt{362}e^{23},$ $\frac{33}{445}\sqrt{21}e^{13} + \frac{33}{890}\sqrt{118}e^{25}, \frac{11}{445}\sqrt{85}e^{16}$	$(-\frac{11}{445}, -\frac{66}{445}, \frac{88}{445}, \frac{33}{445}, \frac{143}{445}, -\frac{77}{445}, \frac{22}{445}, \frac{77}{445}, -\frac{88}{445})$ $+\frac{11}{445}\sqrt{474}e^5 \otimes e_7 + \frac{11}{890}\sqrt{1354}e^4 \otimes e_9$	{2478, 5689}
941:118	$0, 0, 0, 0, 0, \frac{29}{1405}\sqrt{154}e^{12}, \frac{58}{1405}\sqrt{77}e^{14} + \frac{29}{1405}\sqrt{286}e^{23},$ $\frac{58}{1405}\sqrt{11}e^{13} + \frac{58}{1405}\sqrt{110}e^{25}, \frac{174}{1405}\sqrt{11}e^{16}$	$(\frac{319}{1405}, -\frac{261}{1405}, \frac{58}{1405}, -\frac{522}{1405}, \frac{638}{1405}, \frac{58}{1405}, -\frac{203}{1405}, \frac{377}{1405}, \frac{377}{1405})$ $+\frac{29}{1405}\sqrt{1094}e^1 \otimes e_4 + \frac{29}{1405}\sqrt{1358}e^5 \otimes e_7$	{246789, 347}
941:118	$0, 0, 0, 0, 0, \frac{38}{1245}\sqrt{111}e^{12}, \frac{38}{1245}\sqrt{182}e^{14} + \frac{38}{1245}\sqrt{111}e^{23},$ $\frac{19}{415}\sqrt{22}e^{13} + \frac{38}{1245}\sqrt{265}e^{25}, \frac{19}{1245}\sqrt{70}e^{16}$	$(-\frac{57}{415}, \frac{19}{1245}, \frac{76}{415}, \frac{418}{1245}, \frac{38}{1245}, -\frac{152}{1245}, \frac{247}{1245}, \frac{19}{415}, -\frac{323}{1245})$ $+\frac{19}{1245}\sqrt{1354}e^4 \otimes e_8 + \frac{19}{1245}\sqrt{926}e^5 \otimes e_9$	{1349, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:119	$0, 0, 0, 0, 0, \frac{5}{56}\sqrt{2}e^{12}, \frac{1}{56}\sqrt{97}e^{34}, \frac{5}{56}\sqrt{2}e^{15} + \frac{1}{28}\sqrt{21}e^{23},$ $\frac{1}{56}\sqrt{17}e^{13} + \frac{1}{28}\sqrt{15}e^{26}$	$(\frac{1}{14}, -\frac{1}{56}, -\frac{1}{28}, \frac{1}{14}, -\frac{1}{8}, \frac{3}{56}, \frac{1}{28}, -\frac{3}{56}, \frac{1}{28})$ $+ \frac{1}{56}\sqrt{111}e^1 \otimes e_7 - \frac{1}{56}\sqrt{91}e^4 \otimes e_9$	{1259, 1689, 2467, 4578}
941:119	$0, 0, 0, 0, 0, \frac{5}{56}\sqrt{2}e^{12}, \frac{1}{56}\sqrt{97}e^{34}, \frac{5}{56}\sqrt{2}e^{15} + \frac{1}{28}\sqrt{21}e^{23},$ $\frac{1}{56}\sqrt{17}e^{13} + \frac{1}{28}\sqrt{15}e^{26}$	$(\frac{1}{14}, -\frac{1}{56}, -\frac{1}{28}, \frac{1}{14}, -\frac{1}{8}, \frac{3}{56}, \frac{1}{28}, -\frac{3}{56}, \frac{1}{28})$ $+ \frac{1}{56}\sqrt{111}e^1 \otimes e_7 + \frac{1}{56}\sqrt{91}e^4 \otimes e_9$	{1259, 1689, 2467, 4578}
941:119	$0, 0, 0, 0, 0, \frac{1}{41}\sqrt{651}e^{12}, \frac{2}{41}\sqrt{217}e^{34}, \frac{1}{41}\sqrt{651}e^{15} + \frac{3}{41}\sqrt{155}e^{23},$ $\frac{3}{41}\sqrt{155}e^{13} + \frac{2}{41}\sqrt{217}e^{26}$	$(\frac{3}{82}, \frac{5}{41}, \frac{10}{41}, -\frac{21}{41}, \frac{27}{41}, \frac{13}{41}, -\frac{11}{41}, \frac{15}{41}, \frac{23}{82})$ $+ \frac{2}{41}\sqrt{589}e^3 \otimes e_4$	{1245689, 149, 248, 456}
941:119	$0, 0, 0, 0, 0, \frac{13}{899}\sqrt{581}e^{12}, \frac{26}{899}\sqrt{166}e^{34}, \frac{13}{899}\sqrt{249}e^{15} + \frac{13}{899}\sqrt{159}e^{23},$ $\frac{13}{899}\sqrt{491}e^{13} + \frac{52}{899}\sqrt{51}e^{26}$	$(-\frac{117}{1798}, \frac{52}{899}, \frac{104}{899}, -\frac{221}{899}, \frac{429}{1798}, -\frac{13}{1798}, -\frac{117}{899}, \frac{156}{899}, \frac{91}{1798})$ $+ \frac{26}{899}\sqrt{114}e^5 \otimes e_9 + \frac{52}{899}\sqrt{70}e^2 \otimes e_7$	{123489, 234568}
941:119	$0, 0, 0, 0, 0, \frac{16}{3807}\sqrt{1767}e^{15} + \frac{32}{3807}\sqrt{85}e^{23}, \frac{16}{1269}\sqrt{197}e^{34},$ $\frac{32}{3807}\sqrt{293}e^{13} + \frac{16}{3807}\sqrt{607}e^{26}$	$(-\frac{304}{3807}, \frac{8}{1269}, \frac{16}{1269}, \frac{200}{3807}, \frac{8}{81}, -\frac{280}{3807}, \frac{248}{3807}, \frac{8}{423}, -\frac{256}{3807})$ $+ \frac{128}{3807}\sqrt{26}e^4 \otimes e_8 + \frac{16}{3807}\sqrt{1834}e^5 \otimes e_7$	{123789, 134569}
941:119	$0, 0, 0, 0, 0, \frac{19}{803}\sqrt{267}e^{12}, \frac{76}{803}\sqrt{15}e^{34}, \frac{171}{803}e^{15} + \frac{19}{803}\sqrt{249}e^{23},$ $\frac{19}{803}\sqrt{597}e^{13} + \frac{38}{803}\sqrt{2}e^{26}$	$(-\frac{285}{1606}, \frac{76}{803}, \frac{152}{803}, -\frac{19}{73}, \frac{741}{1606}, -\frac{133}{1606}, -\frac{57}{803}, \frac{228}{803}, \frac{19}{1606})$ $+ \frac{38}{803}\sqrt{174}e^5 \otimes e_9 + \frac{532}{803}e^3 \otimes e_4$	{124689, 2458}
941:119	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{2813}e^{12}, \frac{10}{103}\sqrt{29}e^{34}, \frac{3}{103}\sqrt{29}e^{15} + \frac{1}{103}\sqrt{87}e^{23},$ $\frac{1}{103}\sqrt{2639}e^{13} + \frac{10}{103}\sqrt{29}e^{26}$	$(\frac{15}{206}, \frac{6}{103}, \frac{12}{103}, -\frac{35}{103}, \frac{21}{206}, \frac{27}{206}, -\frac{23}{103}, \frac{18}{103}, \frac{39}{206})$ $+ \frac{4}{103}\sqrt{319}e^2 \otimes e_7$	{123489, 135679, 234568, 37}
941:119	$0, 0, 0, 0, 0, \frac{16}{101}\sqrt{3}e^{12}, \frac{8}{101}\sqrt{94}e^{34}, \frac{24}{101}\sqrt{10}e^{15} + \frac{32}{101}\sqrt{3}e^{23},$ $\frac{32}{101}\sqrt{3}e^{13} + \frac{8}{101}\sqrt{42}e^{26}$	$(-\frac{12}{101}, \frac{12}{101}, \frac{24}{101}, -\frac{40}{101}, \frac{48}{101}, 0, -\frac{16}{101}, \frac{36}{101}, \frac{12}{101})$ $+ \frac{16}{101}\sqrt{39}e^5 \otimes e_7 + \frac{32}{101}e^3 \otimes e_4$	{123789, 37}
941:119	$0, 0, 0, 0, 0, \frac{13}{356}\sqrt{129}e^{12}, \frac{13}{178}\sqrt{43}e^{34}, \frac{13}{356}\sqrt{129}e^{15} + \frac{13}{356}\sqrt{102}e^{23},$ $\frac{13}{178}\sqrt{30}e^{13} + \frac{13}{178}\sqrt{6}e^{26}$	$(\frac{39}{178}, \frac{39}{712}, \frac{39}{356}, -\frac{65}{178}, -\frac{39}{712}, \frac{195}{712}, -\frac{91}{356}, \frac{117}{712}, \frac{117}{356})$ $+ \frac{13}{178}\sqrt{111}e^1 \otimes e_7 + \frac{13}{356}\sqrt{178}e^3 \otimes e_4$	{2467, 4578}
941:119	$0, 0, 0, 0, 0, \frac{6}{623}\sqrt{3763}e^{12}, \frac{4}{623}\sqrt{11289}e^{34}, \frac{6}{623}\sqrt{3763}e^{15} + \frac{2}{89}\sqrt{795}e^{23},$ $\frac{8}{623}\sqrt{159}e^{13} + \frac{2}{623}\sqrt{17490}e^{26}$	$(\frac{181}{623}, \frac{23}{623}, \frac{46}{623}, -\frac{183}{623}, -\frac{16}{89}, \frac{204}{623}, -\frac{137}{623}, \frac{69}{623}, \frac{227}{623})$ $+ \frac{6}{623}\sqrt{9222}e^1 \otimes e_7$	{1259, 1689, 2467, 4578}
941:119	$0, 0, 0, 0, 0, \frac{32}{3215}\sqrt{1007}e^{15} + \frac{192}{3215}\sqrt{29}e^{23}, \frac{32}{3215}\sqrt{1541}e^{34},$ $\frac{192}{3215}\sqrt{91}e^{13} + \frac{32}{3215}\sqrt{1031}e^{26}$	$(-\frac{112}{643}, \frac{96}{3215}, \frac{192}{3215}, \frac{144}{3215}, \frac{848}{3215}, -\frac{464}{3215}, \frac{336}{3215}, \frac{288}{3215}, -\frac{368}{3215})$ $+ \frac{128}{3215}\sqrt{85}e^4 \otimes e_9 + \frac{96}{3215}\sqrt{170}e^5 \otimes e_7$	{123789, 234568}
941:119	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{11}e^{12}, \frac{4}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{15} + \frac{1}{43}\sqrt{429}e^{23},$ $\frac{1}{43}\sqrt{759}e^{13} + \frac{2}{43}\sqrt{66}e^{26}$	$(\frac{7}{86}, -\frac{2}{43}, -\frac{4}{43}, \frac{27}{43}, -\frac{19}{86}, \frac{3}{43}, \frac{23}{43}, -\frac{6}{43}, -\frac{1}{86})$ $+ \frac{6}{43}\sqrt{66}e^4 \otimes e_8$	{1268, 1457, 2589, 4679}
941:119	$0, 0, 0, 0, 0, \frac{16}{335}\sqrt{58}e^{12}, \frac{16}{335}\sqrt{69}e^{34}, \frac{16}{335}\sqrt{7}e^{15} + \frac{32}{335}\sqrt{19}e^{23},$ $\frac{16}{335}\sqrt{74}e^{13} + \frac{16}{335}\sqrt{69}e^{26}$	$(\frac{8}{67}, -\frac{16}{335}, -\frac{32}{335}, \frac{136}{335}, -\frac{88}{335}, \frac{24}{335}, \frac{104}{335}, -\frac{48}{335}, \frac{8}{335})$ $+ \frac{16}{335}\sqrt{130}e^1 \otimes e_5 + \frac{32}{335}\sqrt{170}e^4 \otimes e_9$	{129, 24567}
941:119	$0, 0, 0, 0, 0, \frac{10}{181}\sqrt{2}e^{12}, \frac{1}{181}\sqrt{322}e^{34}, \frac{2}{181}\sqrt{30}e^{15} + \frac{1}{181}\sqrt{42}e^{23},$ $\frac{2}{181}\sqrt{71}e^{13} + \frac{4}{181}\sqrt{15}e^{26}$	$(\frac{9}{181}, -\frac{1}{181}, -\frac{2}{181}, -\frac{1}{181}, -\frac{12}{181}, \frac{8}{181}, -\frac{3}{181}, -\frac{3}{181}, \frac{7}{181})$ $- \frac{1}{181}\sqrt{246}e^4 \otimes e_8 + \frac{1}{181}\sqrt{406}e^2 \otimes e_7$	{123459, 136789, 2346, 3578}
941:119	$0, 0, 0, 0, 0, \frac{10}{181}\sqrt{2}e^{12}, \frac{1}{181}\sqrt{322}e^{34}, \frac{2}{181}\sqrt{30}e^{15} + \frac{1}{181}\sqrt{42}e^{23},$ $\frac{2}{181}\sqrt{71}e^{13} + \frac{4}{181}\sqrt{15}e^{26}$	$(\frac{9}{181}, -\frac{1}{181}, -\frac{2}{181}, -\frac{1}{181}, -\frac{12}{181}, \frac{8}{181}, -\frac{3}{181}, -\frac{3}{181}, \frac{7}{181})$ $+ \frac{1}{181}\sqrt{246}e^4 \otimes e_8 + \frac{1}{181}\sqrt{406}e^2 \otimes e_7$	{123459, 136789, 2346, 3578}
941:119	$0, 0, 0, 0, 0, \frac{23}{859}\sqrt{141}e^{12}, \frac{46}{859}\sqrt{94}e^{34}, \frac{23}{859}\sqrt{329}e^{15} + \frac{23}{859}\sqrt{109}e^{23},$ $\frac{23}{859}\sqrt{79}e^{13} + \frac{184}{859}e^{26}$	$(\frac{391}{1718}, -\frac{46}{859}, -\frac{92}{859}, \frac{391}{859}, -\frac{667}{1718}, \frac{299}{1718}, \frac{299}{859}, -\frac{138}{859}, \frac{207}{1718})$ $+ \frac{138}{859}\sqrt{26}e^4 \otimes e_8 + \frac{92}{859}\sqrt{35}e^1 \otimes e_5$	{136789, 3578}
941:119	$0, 0, 0, 0, 0, \frac{144}{605}\sqrt{2}e^{12}, \frac{48}{605}\sqrt{109}e^{34}, \frac{48}{605}\sqrt{103}e^{15} + \frac{32}{605}\sqrt{141}e^{23},$ $\frac{32}{605}\sqrt{141}e^{13} + \frac{16}{605}\sqrt{471}e^{26}$	$(-\frac{16}{121}, \frac{72}{605}, \frac{144}{605}, -\frac{232}{605}, \frac{296}{605}, -\frac{8}{605}, -\frac{8}{55}, \frac{216}{605}, \frac{64}{605})$ $+ \frac{48}{605}\sqrt{170}e^5 \otimes e_7$	{123789, 134569, 234568, 37}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:119	$0, 0, 0, 0, 0, \frac{5}{337}\sqrt{885}e^{12}, \frac{30}{337}\sqrt{21}e^{34}, \frac{5}{337}\sqrt{3}e^{15} + \frac{15}{337}\sqrt{7}e^{23},$ $\frac{45}{337}\sqrt{7}e^{13} + \frac{30}{337}\sqrt{21}e^{26}$	$(\frac{105}{674}, \frac{10}{337}, \frac{20}{337}, -\frac{85}{337}, -\frac{45}{674}, \frac{125}{674}, -\frac{65}{337}, \frac{30}{337}, \frac{145}{674})$ $+ \frac{20}{337}\sqrt{87}e^2 \otimes e_7 + \frac{40}{337}\sqrt{6}e^1 \otimes e_5$	{13679, 357}
941:119	$0, 0, 0, 0, 0, \frac{21}{433}\sqrt{11}e^{12}, \frac{126}{433}\sqrt{2}e^{34}, \frac{7}{433}\sqrt{615}e^{15} + \frac{21}{433}\sqrt{85}e^{23},$ $\frac{7}{433}\sqrt{1281}e^{13} + \frac{126}{433}\sqrt{2}e^{26}$	$(\frac{189}{866}, \frac{14}{433}, \frac{28}{433}, -\frac{119}{433}, -\frac{105}{866}, \frac{217}{866}, -\frac{91}{433}, \frac{42}{433}, \frac{245}{866})$ $+ \frac{14}{433}\sqrt{258}e^1 \otimes e_5 + \frac{14}{433}\sqrt{366}e^3 \otimes e_4$	{149, 456}
941:119	$0, 0, 0, 0, 0, \frac{1}{95}\sqrt{5757}e^{12}, \frac{2}{95}\sqrt{101}e^{34}, \frac{1}{95}\sqrt{2323}e^{15} + \frac{1}{95}\sqrt{1919}e^{23},$ $\frac{1}{95}\sqrt{6161}e^{13} + \frac{2}{95}\sqrt{101}e^{26}$	$(\frac{1}{2}, -\frac{2}{95}, -\frac{4}{95}, \frac{17}{95}, -\frac{107}{190}, \frac{91}{190}, \frac{13}{95}, -\frac{6}{95}, \frac{87}{190})$ $+ \frac{4}{95}\sqrt{1010}e^1 \otimes e_5$	{13467, 136, 34579, 359}
941:119	$0, 0, 0, 0, 0, \frac{6}{983}\sqrt{107}e^{12}, \frac{16}{983}\sqrt{21}e^{34}, \frac{2}{983}\sqrt{141}e^{15} + \frac{2}{983}\sqrt{381}e^{23},$ $\frac{6}{983}\sqrt{78}e^{13} + \frac{16}{983}\sqrt{21}e^{26}$	$(-\frac{33}{983}, \frac{7}{983}, \frac{14}{983}, -\frac{13}{983}, \frac{54}{983}, -\frac{26}{983}, \frac{1}{983}, \frac{21}{983}, -\frac{19}{983})$ $+ \frac{2}{983}\sqrt{1002}e^4 \otimes e_9 + \frac{4}{983}\sqrt{411}e^2 \otimes e_7$	{135679, 234568}
941:119	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{34}, \frac{1}{9}\sqrt{21}e^{15} + \frac{1}{9}\sqrt{3}e^{23},$ $\frac{1}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{26}$	$(-\frac{1}{6}, 0, 0, \frac{1}{3}, \frac{1}{6}, -\frac{1}{6}, \frac{1}{3}, 0, -\frac{1}{6})$ $+ \frac{2}{9}\sqrt{6}e^4 \otimes e_8 + \frac{2}{9}\sqrt{6}e^5 \otimes e_9$	{124567, 2479}
941:119	$0, 0, 0, 0, 0, \frac{2}{205}\sqrt{1463}e^{12}, \frac{2}{205}\sqrt{6314}e^{34}, \frac{2}{205}\sqrt{1463}e^{15} + \frac{42}{205}\sqrt{11}e^{23},$ $\frac{22}{205}\sqrt{14}e^{13} + \frac{2}{205}\sqrt{6314}e^{26}$	$(-\frac{5}{41}, -\frac{3}{205}, -\frac{6}{205}, \frac{3}{5}, \frac{16}{205}, -\frac{28}{205}, \frac{117}{205}, -\frac{9}{205}, -\frac{31}{205})$ $+ \frac{2}{205}\sqrt{13090}e^4 \otimes e_9$	{1259, 1689, 2467, 4578}
941:119	$0, 0, 0, 0, 0, \frac{48}{1093}\sqrt{15}e^{12}, \frac{8}{1093}\sqrt{939}e^{34},$ $\frac{24}{1093}\sqrt{133}e^{15} + \frac{16}{1093}\sqrt{291}e^{23}, \frac{16}{1093}\sqrt{78}e^{13} + \frac{8}{1093}\sqrt{831}e^{26}$	$(-\frac{28}{1093}, \frac{40}{1093}, \frac{80}{1093}, -\frac{204}{1093}, \frac{148}{1093}, \frac{12}{1093}, -\frac{124}{1093}, \frac{120}{1093}, \frac{52}{1093})$ $+ \frac{24}{1093}\sqrt{146}e^5 \otimes e_9 + \frac{24}{1093}\sqrt{182}e^1 \otimes e_7$	{1689, 4578}
941:119	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{11}e^{12}, \frac{2}{43}\sqrt{66}e^{34}, \frac{33}{43}e^{15} + \frac{1}{43}\sqrt{759}e^{23},$ $\frac{1}{43}\sqrt{429}e^{13} + \frac{2}{43}\sqrt{66}e^{26}$	$(-\frac{29}{86}, \frac{4}{43}, \frac{8}{43}, \frac{3}{43}, \frac{53}{86}, -\frac{21}{86}, \frac{11}{43}, \frac{12}{43}, -\frac{13}{86})$ $+ \frac{6}{43}\sqrt{66}e^5 \otimes e_9$	{1345, 1357, 3469, 3679}
941:119	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{55}e^{12}, \frac{2}{195}\sqrt{1230}e^{34}, \frac{2}{195}\sqrt{1065}e^{15} + \frac{2}{195}\sqrt{465}e^{23},$ $\frac{4}{39}\sqrt{3}e^{13} + \frac{2}{65}\sqrt{10}e^{26}$	$(\frac{7}{39}, -\frac{1}{39}, -\frac{2}{39}, \frac{1}{13}, -\frac{10}{39}, \frac{13}{39}, \frac{1}{39}, -\frac{1}{13}, \frac{5}{9})$ $+ \frac{14}{195}\sqrt{30}e^1 \otimes e_7 + \frac{4}{195}\sqrt{285}e^4 \otimes e_8$	{134569, 235678}
941:119	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{29}e^{12}, \frac{4}{11}\sqrt{2}e^{34}, \frac{3}{11}e^{15} + \frac{1}{11}\sqrt{15}e^{23},$ $\frac{1}{11}\sqrt{35}e^{13} + \frac{4}{11}\sqrt{2}e^{26}$	$(\frac{3}{22}, 0, 0, -\frac{1}{11}, -\frac{3}{22}, \frac{3}{22}, -\frac{1}{11}, 0, \frac{3}{22})$ $+ \frac{2}{11}\sqrt{10}e^2 \otimes e_7 + \frac{2}{11}\sqrt{6}e^3 \otimes e_4$	{123489, 234568}
941:120	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{330}e^{12}, \frac{1}{19}\sqrt{330}e^{13} + \frac{1}{19}\sqrt{330}e^{24}, \frac{5}{19}\sqrt{22}e^{15},$ $\frac{1}{19}\sqrt{330}e^{16} + \frac{1}{19}\sqrt{330}e^{34}$	$(0, \frac{3}{19}, \frac{3}{19}, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{470}e^1 \otimes e_5 + \frac{3}{19}\sqrt{70}e^4 \otimes e_8$	{124569, 13457}
941:120	$0, 0, 0, 0, 0, \frac{18}{2141}\sqrt{94}e^{12}, \frac{36}{2141}\sqrt{2}e^{13} + \frac{3}{2141}\sqrt{4962}e^{24},$ $\frac{18}{2141}\sqrt{174}e^{15}, \frac{3}{2141}\sqrt{2274}e^{16} + \frac{12}{2141}\sqrt{102}e^{34}$	$(\frac{78}{2141}, -\frac{132}{2141}, -\frac{93}{2141}, \frac{117}{2141}, \frac{12}{2141}, -\frac{54}{2141}, -\frac{15}{2141}, \frac{90}{2141}, \frac{24}{2141})$ $+ \frac{15}{2141}\sqrt{222}e^5 \otimes e_7 + \frac{3}{2141}\sqrt{6510}e^4 \otimes e_8$	{1236789, 124569}
941:120	$0, 0, 0, 0, 0, \frac{8}{3699}\sqrt{101}e^{12}, \frac{8}{3699}\sqrt{258}e^{13} + \frac{4}{3699}\sqrt{757}e^{24}, \frac{4}{1233}\sqrt{194}e^{15},$ $\frac{4}{3699}\sqrt{103}e^{16} + \frac{4}{1233}\sqrt{151}e^{34}$	$(\frac{52}{3699}, -\frac{94}{3699}, -\frac{68}{3699}, \frac{26}{1233}, \frac{2}{411}, -\frac{14}{1233}, -\frac{16}{3699}, \frac{70}{3699}, \frac{10}{3699})$ $+ \frac{4}{1233}\sqrt{215}e^4 \otimes e_8 + \frac{4}{3699}\sqrt{1505}e^5 \otimes e_9$	{1236789, 13457}
941:120	$0, 0, 0, 0, 0, \frac{82}{493}\sqrt{6}e^{12}, \frac{6}{493}\sqrt{1763}e^{13} + \frac{8}{493}\sqrt{1353}e^{24}, \frac{2}{493}\sqrt{32226}e^{15},$ $\frac{82}{493}\sqrt{6}e^{16} + \frac{8}{493}\sqrt{1353}e^{34}$	$(\frac{94}{493}, -\frac{31}{493}, \frac{16}{493}, \frac{141}{493}, -\frac{199}{493}, \frac{63}{493}, \frac{110}{493}, -\frac{105}{493}, \frac{157}{493})$ $+ \frac{2}{493}\sqrt{52890}e^4 \otimes e_8$	{1236789, 124569, 13457, 18}
941:120	$0, 0, 0, 0, 0, \frac{12}{23}\sqrt{2}e^{12}, \frac{8}{23}\sqrt{3}e^{13} + \frac{4}{23}\sqrt{6}e^{24}, \frac{4}{23}\sqrt{14}e^{15},$ $\frac{12}{23}\sqrt{2}e^{16} + \frac{4}{23}\sqrt{6}e^{34}$	$(\frac{6}{23}, -\frac{3}{23}, 0, \frac{9}{23}, -\frac{10}{23}, \frac{3}{23}, \frac{6}{23}, -\frac{4}{23}, \frac{9}{23})$ $+ \frac{8}{23}\sqrt{10}e^1 \otimes e_5$	{2345679, 2569, 357, 45}
941:120	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{3}{16}\sqrt{2}e^{13} + \frac{1}{8}\sqrt{2}e^{24}, \frac{1}{16}\sqrt{26}e^{15},$ $\frac{1}{4}e^{16} + \frac{1}{8}\sqrt{2}e^{34}$	$(-\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{3}{16}, \frac{1}{8}, \frac{1}{16}, 0, 0, -\frac{1}{16})$ $+ \frac{1}{16}\sqrt{30}e^3 \otimes e_8 + \frac{1}{16}\sqrt{30}e^5 \otimes e_7$	{2379, 24589, 3467, 568}
941:120	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{3}{16}\sqrt{2}e^{13} + \frac{1}{8}\sqrt{2}e^{24}, \frac{1}{16}\sqrt{26}e^{15},$ $\frac{1}{4}e^{16} + \frac{1}{8}\sqrt{2}e^{34}$	$(-\frac{1}{8}, \frac{3}{16}, \frac{1}{8}, -\frac{3}{16}, \frac{1}{8}, \frac{1}{16}, 0, 0, -\frac{1}{16})$ $+ \frac{1}{16}\sqrt{30}e^3 \otimes e_8 - \frac{1}{16}\sqrt{30}e^5 \otimes e_7$	{2379, 24589, 3467, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:120	$0, 0, 0, 0, 0, \frac{82}{3893}\sqrt{582e^{12}}, \frac{328}{3893}\sqrt{3e^{13}} + \frac{246}{3893}\sqrt{19e^{24}},$ $\frac{41}{3893}\sqrt{74e^{15}}, \frac{41}{3893}\sqrt{1698e^{16}} + \frac{984}{3893}e^{34}$	$(\frac{246}{3893}, \frac{492}{3893}, \frac{615}{3893}, \frac{369}{3893}, -\frac{1435}{3893}, \frac{738}{3893}, \frac{861}{3893}, -\frac{1189}{3893}, \frac{984}{3893})$ $+ \frac{41}{3893}\sqrt{3790e^1} \otimes e_5 + \frac{615}{3893}\sqrt{14e^2} \otimes e_8$	{12349, 1279}
941:120	$0, 0, 0, 0, 0, \frac{1}{187}\sqrt{1190e^{12}}, \frac{1}{187}\sqrt{210e^{13}} + \frac{12}{187}\sqrt{35e^{24}}, \frac{12}{187}\sqrt{35e^{15}},$ $\frac{5}{187}\sqrt{42e^{16}} + \frac{5}{187}\sqrt{42e^{34}}$	$(-\frac{28}{187}, \frac{41}{187}, \frac{27}{187}, -\frac{42}{187}, \frac{2}{187}, \frac{13}{187}, -\frac{1}{187}, \frac{6}{187}, -\frac{15}{187})$ $+ \frac{7}{187}\sqrt{130e^5} \otimes e_7 + \frac{9}{187}\sqrt{70e^2} \otimes e_8$	{1234569, 1478}
941:120	$0, 0, 0, 0, 0, \frac{4}{513}\sqrt{406e^{12}}, \frac{2}{513}\sqrt{26187e^{13}} + \frac{4}{513}\sqrt{406e^{24}}, \frac{4}{171}\sqrt{1015e^{15}},$ $\frac{2}{513}\sqrt{19082e^{16}} + \frac{4}{171}\sqrt{1015e^{34}}$	$(-\frac{70}{513}, \frac{67}{513}, \frac{32}{513}, -\frac{35}{513}, \frac{37}{513}, -\frac{1}{513}, -\frac{2}{513}, \frac{263}{513}, -\frac{73}{513})$ $+ \frac{2}{513}\sqrt{87290e^5} \otimes e_9$	{123789, 12489, 134567, 156}
941:120	$0, 0, 0, 0, 0, \frac{5}{187}\sqrt{42e^{12}}, \frac{1}{187}\sqrt{210e^{13}} + \frac{5}{187}\sqrt{42e^{24}}, \frac{12}{187}\sqrt{35e^{15}},$ $\frac{1}{187}\sqrt{1190e^{16}} + \frac{12}{187}\sqrt{35e^{34}}$	$(-\frac{28}{187}, \frac{45}{187}, \frac{31}{187}, -\frac{42}{187}, \frac{24}{187}, \frac{1}{187}, \frac{3}{187}, -\frac{4}{187}, -\frac{1}{17})$ $+ \frac{7}{187}\sqrt{130e^3} \otimes e_8 + \frac{9}{187}\sqrt{70e^5} \otimes e_9$	{1246789, 1345}
941:120	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{5e^{12}}, \frac{1}{13}\sqrt{42e^{13}} + \frac{1}{13}\sqrt{22e^{24}}, \frac{1}{13}\sqrt{6e^{15}},$ $\frac{1}{13}\sqrt{6e^{16}} + \frac{2}{13}\sqrt{5e^{34}}$	$(\frac{1}{13}, \frac{3}{26}, \frac{2}{13}, \frac{3}{26}, -\frac{5}{13}, \frac{5}{26}, \frac{3}{13}, -\frac{4}{13}, \frac{7}{26})$ $+ \frac{1}{13}\sqrt{70e^1} \otimes e_5 + \frac{1}{13}\sqrt{70e^3} \otimes e_8$	{124789, 1678}
941:120	$0, 0, 0, 0, 0, \frac{2}{513}\sqrt{19082e^{12}}, \frac{2}{513}\sqrt{26187e^{13}} + \frac{4}{171}\sqrt{1015e^{24}},$ $\frac{4}{171}\sqrt{1015e^{15}}, \frac{4}{513}\sqrt{406e^{16}} + \frac{4}{513}\sqrt{406e^{34}}$	$(-\frac{70}{513}, \frac{239}{513}, \frac{68}{171}, -\frac{35}{171}, -\frac{97}{513}, \frac{169}{513}, \frac{134}{513}, -\frac{167}{513}, \frac{11}{57})$ $+ \frac{2}{513}\sqrt{87290e^2} \otimes e_8$	{123579, 12459, 134678, 168}
941:120	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{14e^{12}}, \frac{8}{23}\sqrt{3e^{13}} + \frac{12}{23}\sqrt{2e^{24}}, \frac{12}{23}\sqrt{2e^{15}},$ $\frac{4}{23}\sqrt{6e^{16}} + \frac{4}{23}\sqrt{6e^{34}}$	$(-\frac{2}{23}, \frac{1}{23}, 0, -\frac{3}{23}, \frac{14}{23}, -\frac{1}{23}, -\frac{2}{23}, \frac{12}{23}, -\frac{3}{23})$ $+ \frac{8}{23}\sqrt{10e^5} \otimes e_7$	{1234569, 126789, 135, 1478}
941:120	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{6e^{12}}, \frac{8}{23}\sqrt{3e^{13}} + \frac{4}{23}\sqrt{6e^{24}}, \frac{12}{23}\sqrt{2e^{15}},$ $\frac{4}{23}\sqrt{14e^{16}} + \frac{12}{23}\sqrt{2e^{34}}$	$(-\frac{2}{23}, \frac{9}{23}, \frac{8}{23}, -\frac{3}{23}, -\frac{6}{23}, \frac{7}{23}, \frac{6}{23}, -\frac{8}{23}, \frac{5}{23})$ $+ \frac{8}{23}\sqrt{10e^3} \otimes e_8$	{123569, 1246789, 1345, 178}
941:121	$0, 0, 0, 0, 0, \frac{2}{1303}\sqrt{60495e^{12}}, \frac{15}{1303}\sqrt{2294e^{13}} + \frac{3}{1303}\sqrt{74370e^{24}},$ $\frac{2}{1303}\sqrt{183705e^{15}}, \frac{1}{1303}\sqrt{351870e^{26}} + \frac{2}{1303}\sqrt{137085e^{34}}$	$(\frac{167}{1303}, \frac{78}{1303}, \frac{117}{1303}, \frac{206}{1303}, -\frac{516}{1303}, \frac{245}{1303}, \frac{284}{1303}, -\frac{349}{1303}, \frac{323}{1303})$ $+ \frac{2}{1303}\sqrt{1284270e^4} \otimes e_8$	{1236789, 124569, 234, 2578}
941:121	$0, 0, 0, 0, 0, \frac{2}{2829}\sqrt{498895e^{12}}, \frac{2}{2829}\sqrt{477703e^{13}} + \frac{4}{2829}\sqrt{163355e^{24}},$ $\frac{2}{2829}\sqrt{825605e^{15}}, \frac{8}{2829}\sqrt{41501e^{26}} + \frac{2}{2829}\sqrt{147461e^{34}}$	$(-\frac{509}{2829}, \frac{772}{2829}, \frac{386}{943}, -\frac{1}{23}, -\frac{485}{2829}, \frac{263}{2829}, \frac{649}{2829}, -\frac{994}{2829}, \frac{15}{41})$ $+ \frac{2}{2829}\sqrt{2100657e^2} \otimes e_8$	{1346789, 1689, 358, 4578}
941:121	$0, 0, 0, 0, 0, \frac{12}{353}\sqrt{93e^{12}}, \frac{180}{353}e^{13} + \frac{6}{353}\sqrt{501e^{24}}, \frac{36}{353}\sqrt{5e^{15}},$ $\frac{18}{353}\sqrt{15e^{26}} + \frac{6}{353}\sqrt{426e^{34}}$	$(\frac{27}{353}, \frac{36}{353}, \frac{54}{353}, \frac{45}{353}, -\frac{135}{353}, \frac{63}{353}, \frac{81}{353}, -\frac{108}{353}, \frac{99}{353})$ $+ \frac{6}{353}\sqrt{1365e^1} \otimes e_5 + \frac{6}{353}\sqrt{1482e^3} \otimes e_8$	{124789, 2568}
941:121	$0, 0, 0, 0, 0, \frac{1}{1387}\sqrt{276398e^{12}}, \frac{1}{1387}\sqrt{623730e^{13}} + \frac{1}{1387}\sqrt{247046e^{24}},$ $\frac{1}{1387}\sqrt{1015090e^{15}}, \frac{2}{1387}\sqrt{18345e^{26}} + \frac{1}{1387}\sqrt{1029766e^{34}}$	$(-\frac{327}{1387}, \frac{474}{1387}, \frac{711}{1387}, -\frac{90}{1387}, -\frac{185}{1387}, \frac{147}{1387}, \frac{384}{1387}, -\frac{512}{1387}, \frac{621}{1387})$ $+ \frac{1}{1387}\sqrt{2830022e^3} \otimes e_8$	{123569, 1246789, 2347, 258}
941:121	$0, 0, 0, 0, 0, \frac{10}{2801}\sqrt{997e^{12}}, \frac{4}{2801}\sqrt{109670e^{13}} + \frac{2}{2801}\sqrt{258223e^{24}},$ $\frac{8}{2801}\sqrt{66799e^{15}}, \frac{2}{2801}\sqrt{707870e^{26}} + \frac{2}{2801}\sqrt{927210e^{34}}$	$(-\frac{209}{2801}, -\frac{28}{2801}, -\frac{42}{2801}, -\frac{223}{2801}, \frac{1729}{2801}, -\frac{237}{2801}, -\frac{251}{2801}, \frac{1520}{2801}, -\frac{265}{2801})$ $+ \frac{2}{2801}\sqrt{2345941e^5} \otimes e_9$	{136789, 14689, 3458, 578}
941:121	$0, 0, 0, 0, 0, \frac{46}{1301}\sqrt{183e^{12}}, \frac{345}{1301}\sqrt{6e^{13}} + \frac{69}{1301}\sqrt{178e^{24}},$ $\frac{46}{1301}\sqrt{433e^{15}}, \frac{69}{1301}\sqrt{94e^{26}} + \frac{46}{1301}\sqrt{309e^{34}}$	$(\frac{69}{1301}, \frac{138}{1301}, \frac{207}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{207}{1301}, \frac{276}{1301}, -\frac{391}{1301}, \frac{345}{1301})$ $+ \frac{23}{1301}\sqrt{2814e^4} \otimes e_8 + \frac{368}{1301}\sqrt{2e^1} \otimes e_5$	{124569, 234}
941:121	$0, 0, 0, 0, 0, \frac{2}{7005}\sqrt{43e^{12}}, \frac{1}{7005}\sqrt{4146e^{13}} + \frac{1}{7005}\sqrt{3182e^{24}},$ $\frac{2}{7005}\sqrt{1642e^{15}}, \frac{1}{7005}\sqrt{614e^{26}} + \frac{2}{7005}\sqrt{1299e^{34}}$	$(\frac{43}{7005}, -\frac{2}{467}, -\frac{3}{467}, \frac{28}{7005}, -\frac{16}{7005}, \frac{13}{7005}, -\frac{2}{7005}, \frac{9}{2335}, -\frac{17}{7005})$ $+ \frac{1}{7005}\sqrt{7474e^4} \otimes e_8 + \frac{2}{7005}\sqrt{1394e^5} \otimes e_9$	{1236789, 2578}
941:121	$0, 0, 0, 0, 0, \frac{6}{2657}\sqrt{132702e^{12}}, \frac{2}{2657}\sqrt{1272378e^{13}} + \frac{2}{2657}\sqrt{753279e^{24}},$ $\frac{8}{2657}\sqrt{40331e^{15}}, \frac{6}{2657}\sqrt{53341e^{26}} + \frac{4}{2657}\sqrt{39030e^{34}}$	$(\frac{1257}{2657}, -\frac{300}{2657}, -\frac{450}{2657}, \frac{1107}{2657}, -\frac{1345}{2657}, \frac{957}{2657}, \frac{807}{2657}, -\frac{88}{2657}, \frac{657}{2657})$ $+ \frac{2}{2657}\sqrt{2925949e^1} \otimes e_5$	{13469, 1679, 357, 45}
941:121	$0, 0, 0, 0, 0, \frac{10}{1327}\sqrt{7334e^{12}}, \frac{14}{1327}\sqrt{2895e^{13}} + \frac{6}{1327}\sqrt{29915e^{24}},$ $\frac{1}{1327}\sqrt{909030e^{15}}, \frac{1}{1327}\sqrt{110010e^{26}} + \frac{2}{1327}\sqrt{98430e^{34}}$	$(-\frac{202}{1327}, \frac{62}{1327}, \frac{93}{1327}, -\frac{171}{1327}, \frac{856}{1327}, -\frac{140}{1327}, -\frac{109}{1327}, \frac{654}{1327}, -\frac{78}{1327})$ $+ \frac{4}{1327}\sqrt{137995e^5} \otimes e_7$	{1234569, 126789, 237, 2458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:121	$0, 0, 0, 0, 0, \frac{38}{4185}\sqrt{221e^{12}}, \frac{38}{4185}\sqrt{22e^{13}} + \frac{38}{4185}\sqrt{413e^{24}},$ $\frac{76}{1395}\sqrt{41e^{15}}, \frac{152}{4185}\sqrt{30e^{26}} + \frac{76}{4185}\sqrt{345e^{34}}$	$(-\frac{19}{93}, \frac{532}{4185}, \frac{266}{1395}, -\frac{19}{135}, \frac{931}{4185}, -\frac{323}{4185}, -\frac{19}{1395}, \frac{76}{4185}, \frac{209}{4185})$ $+ \frac{38}{4185}\sqrt{1778e^3} \otimes e_8 + \frac{38}{4185}\sqrt{2029e^5} \otimes e_9$	{1234567, 239}
941:121	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{798e^{12}}, \frac{3}{259}\sqrt{770e^{13}} + \frac{3}{259}\sqrt{714e^{24}}, \frac{3}{259}\sqrt{1218e^{15}},$ $\frac{6}{37}e^{26} + \frac{3}{259}\sqrt{182e^{34}}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+ \frac{3}{259}\sqrt{1526e^3} \otimes e_8 + \frac{48}{259}\sqrt{7e^5} \otimes e_7$	{1359, 14789, 3467, 568}
941:121	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{798e^{12}}, \frac{3}{259}\sqrt{770e^{13}} + \frac{3}{259}\sqrt{714e^{24}}, \frac{3}{259}\sqrt{1218e^{15}},$ $\frac{6}{37}e^{26} + \frac{3}{259}\sqrt{182e^{34}}$	$(-\frac{9}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+ \frac{3}{259}\sqrt{1526e^3} \otimes e_8 - \frac{48}{259}\sqrt{7e^5} \otimes e_7$	{1359, 14789, 3467, 568}
941:121	$0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{835e^{12}}, \frac{2}{1335}\sqrt{395e^{13}} + \frac{2}{1335}\sqrt{1570e^{24}},$ $\frac{1}{1335}\sqrt{6090e^{15}}, \frac{1}{1335}\sqrt{2470e^{26}} + \frac{2}{267}\sqrt{19e^{34}}$	$(-\frac{8}{267}, \frac{2}{89}, \frac{3}{89}, -\frac{5}{267}, \frac{2}{267}, -\frac{2}{267}, \frac{1}{267}, -\frac{2}{89}, \frac{4}{267})$ $+ \frac{2}{1335}\sqrt{1355e^5} \otimes e_7 + \frac{2}{1335}\sqrt{1790e^4} \otimes e_8$	{1236789, 124569}
941:121	$0, 0, 0, 0, 0, \frac{34}{3307}\sqrt{155e^{12}}, \frac{34}{3307}\sqrt{3e^{13}} + \frac{102}{3307}\sqrt{130e^{24}},$ $\frac{34}{3307}\sqrt{1155e^{15}}, \frac{34}{3307}\sqrt{366e^{26}} + \frac{34}{3307}\sqrt{411e^{34}}$	$(-\frac{697}{3307}, \frac{476}{3307}, \frac{714}{3307}, -\frac{459}{3307}, \frac{595}{3307}, -\frac{221}{3307}, \frac{17}{3307}, -\frac{102}{3307}, \frac{255}{3307})$ $+ \frac{102}{3307}\sqrt{173e^2} \otimes e_8 + \frac{170}{3307}\sqrt{58e^5} \otimes e_7$	{12456, 279}
941:122	$0, 0, 0, 0, 0, \frac{350}{2209}\sqrt{26e^{12}}, \frac{550}{2209}\sqrt{3e^{34}},$ $\frac{100}{2209}\sqrt{33e^{13}} + \frac{100}{2209}\sqrt{203e^{25}}, \frac{50}{2209}\sqrt{933e^{14}} + \frac{50}{2209}\sqrt{1318e^{26}}$	$(-\frac{185}{2209}, \frac{429}{2209}, -\frac{207}{2209}, \frac{858}{2209}, -\frac{821}{2209}, \frac{244}{2209}, \frac{651}{2209}, -\frac{392}{2209}, \frac{673}{2209})$ $+ \frac{50}{2209}\sqrt{1921e^2} \otimes e_5$	{12349, 134569, 2467, 457}
941:122	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{58e^{12}}, \frac{2}{139}\sqrt{3190e^{34}}, \frac{3}{139}\sqrt{870e^{13}} + \frac{2}{139}\sqrt{3799e^{25}},$ $\frac{1}{139}\sqrt{1798e^{14}} + \frac{2}{139}\sqrt{1015e^{26}}$	$(\frac{53}{139}, -\frac{21}{139}, -\frac{1}{278}, -\frac{42}{139}, \frac{147}{278}, \frac{32}{139}, -\frac{85}{278}, \frac{105}{278}, \frac{11}{139})$ $+ \frac{1}{139}\sqrt{27434e^5} \otimes e_7$	{1236789, 12569, 367, 568}
941:122	$0, 0, 0, 0, 0, \frac{1}{369}\sqrt{41610e^{12}}, \frac{2}{123}\sqrt{285e^{34}}, \frac{8}{369}\sqrt{570e^{13}} + \frac{5}{123}\sqrt{418e^{25}},$ $\frac{19}{123}\sqrt{30e^{14}} + \frac{1}{369}\sqrt{6270e^{26}}$	$(\frac{19}{369}, -\frac{50}{369}, \frac{15}{41}, -\frac{100}{369}, \frac{68}{123}, -\frac{31}{369}, \frac{35}{369}, \frac{154}{369}, -\frac{9}{41})$ $+ \frac{2}{369}\sqrt{45030e^5} \otimes e_9$	{12456, 134578, 2489, 34679}
941:122	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41e^{12}}, \frac{17}{1381}\sqrt{545e^{34}},$ $\frac{17}{1381}\sqrt{293e^{13}} + \frac{34}{1381}\sqrt{167e^{25}}, \frac{17}{1381}\sqrt{834e^{14}} + \frac{51}{1381}\sqrt{46e^{26}}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{1043e^1} \otimes e_7 - \frac{17}{1381}\sqrt{1459e^4} \otimes e_8$	{12689, 1589, 2378, 35678}
941:122	$0, 0, 0, 0, 0, \frac{34}{1381}\sqrt{41e^{12}}, \frac{17}{1381}\sqrt{545e^{34}},$ $\frac{17}{1381}\sqrt{293e^{13}} + \frac{34}{1381}\sqrt{167e^{25}}, \frac{17}{1381}\sqrt{834e^{14}} + \frac{51}{1381}\sqrt{46e^{26}}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{1043e^1} \otimes e_7 + \frac{17}{1381}\sqrt{1459e^4} \otimes e_8$	{12689, 1589, 2378, 35678}
941:122	$0, 0, 0, 0, 0, \frac{27}{1625}\sqrt{79e^{12}}, \frac{18}{1625}\sqrt{217e^{34}},$ $\frac{9}{1625}\sqrt{303e^{13}} + \frac{54}{1625}\sqrt{47e^{25}}, \frac{9}{1625}\sqrt{949e^{14}} + \frac{18}{1625}\sqrt{203e^{26}}$	$(\frac{27}{325}, \frac{18}{1625}, -\frac{36}{325}, \frac{36}{1625}, -\frac{63}{1625}, \frac{153}{1625}, -\frac{144}{1625}, -\frac{9}{325}, \frac{171}{1625})$ $+ \frac{18}{1625}\sqrt{421e^4} \otimes e_8 + \frac{9}{1625}\sqrt{1361e^5} \otimes e_7$	{1236789, 568}
941:122	$0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{647e^{12}}, \frac{550}{2209}\sqrt{3e^{34}},$ $\frac{100}{2209}\sqrt{33e^{13}} + \frac{50}{2209}\sqrt{1109e^{25}}, \frac{100}{2209}\sqrt{247e^{14}} + \frac{150}{2209}\sqrt{67e^{26}}$	$(-\frac{185}{2209}, \frac{429}{2209}, -\frac{207}{2209}, \frac{858}{2209}, -\frac{821}{2209}, \frac{244}{2209}, \frac{651}{2209}, -\frac{392}{2209}, \frac{673}{2209})$ $+ \frac{50}{2209}\sqrt{1921e^4} \otimes e_8$	{12689, 1589, 2378, 35678}
941:122	$0, 0, 0, 0, 0, \frac{2}{783}\sqrt{285e^{12}}, \frac{2}{783}\sqrt{49305e^{34}},$ $\frac{2}{783}\sqrt{68685e^{13}} + \frac{2}{783}\sqrt{39045e^{25}}, \frac{2}{783}\sqrt{6555e^{14}} + \frac{2}{783}\sqrt{85215e^{26}}$	$(-\frac{5}{29}, -\frac{11}{261}, \frac{41}{87}, -\frac{22}{261}, \frac{89}{261}, -\frac{56}{261}, \frac{101}{261}, \frac{26}{87}, -\frac{67}{261})$ $+ \frac{2}{783}\sqrt{186105e^3} \otimes e_9$	{12589, 1689, 235678, 378}
941:122	$0, 0, 0, 0, 0, \frac{4}{87}\sqrt{30e^{12}}, \frac{4}{87}\sqrt{30e^{34}}, \frac{1}{87}\sqrt{465e^{13}} + \frac{1}{87}\sqrt{510e^{25}},$ $\frac{1}{87}\sqrt{705e^{14}} + \frac{1}{87}\sqrt{30e^{26}}$	$(-\frac{5}{29}, \frac{2}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{8}{29}, -\frac{1}{29}, -\frac{1}{29})$ $+ \frac{1}{29}\sqrt{145e^4} \otimes e_8 + \frac{1}{87}\sqrt{1065e^3} \otimes e_9$	{123456, 134, 24579, 4679}
941:122	$0, 0, 0, 0, 0, \frac{4}{87}\sqrt{30e^{12}}, \frac{4}{87}\sqrt{30e^{34}}, \frac{1}{87}\sqrt{465e^{13}} + \frac{1}{87}\sqrt{510e^{25}},$ $\frac{1}{87}\sqrt{705e^{14}} + \frac{1}{87}\sqrt{30e^{26}}$	$(-\frac{5}{29}, \frac{2}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{8}{29}, -\frac{1}{29}, -\frac{1}{29})$ $- \frac{1}{29}\sqrt{145e^4} \otimes e_8 + \frac{1}{87}\sqrt{1065e^3} \otimes e_9$	{123456, 134, 24579, 4679}
941:122	$0, 0, 0, 0, 0, \frac{10}{1157}\sqrt{2679e^{12}}, \frac{1}{1157}\sqrt{285290e^{34}},$ $\frac{1}{1157}\sqrt{111390e^{13}} + \frac{1}{1157}\sqrt{52170e^{25}}, \frac{1}{1157}\sqrt{200690e^{14}} + \frac{1}{1157}\sqrt{230770e^{26}}$	$(\frac{244}{1157}, -\frac{15}{1157}, -\frac{220}{1157}, -\frac{30}{1157}, \frac{3}{89}, \frac{229}{1157}, -\frac{250}{1157}, \frac{24}{1157}, \frac{214}{1157})$ $+ \frac{1}{1157}\sqrt{473290e^2} \otimes e_7$	{123489, 14679, 23456, 4578}
941:122	$0, 0, 0, 0, 0, \frac{35}{363}\sqrt{3e^{12}}, \frac{14}{363}\sqrt{165e^{34}}, \frac{7}{363}\sqrt{105e^{13}} + \frac{14}{363}\sqrt{69e^{25}},$ $\frac{7}{363}\sqrt{93e^{14}} + \frac{7}{363}\sqrt{3e^{26}}$	$(\frac{7}{121}, -\frac{14}{121}, \frac{28}{121}, -\frac{28}{121}, \frac{49}{121}, -\frac{7}{121}, 0, \frac{35}{121}, -\frac{21}{121})$ $+ \frac{14}{363}\sqrt{255e^3} \otimes e_9 + \frac{7}{121}\sqrt{101e^5} \otimes e_7$	{123456, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:122	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{1295}e^{12}, \frac{17}{1381}\sqrt{545}e^{34},$ $\frac{17}{1381}\sqrt{293}e^{13} + \frac{17}{1381}\sqrt{791}e^{25}, \frac{425}{1381}e^{14} + \frac{17}{1381}\sqrt{1045}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{1043}e^1 \otimes e_7 + \frac{17}{1381}\sqrt{1459}e^2 \otimes e_5$	{12349, 134569, 2467, 457}
941:122	$0, 0, 0, 0, 0, \frac{17}{1381}\sqrt{1295}e^{12}, \frac{17}{1381}\sqrt{545}e^{34},$ $\frac{17}{1381}\sqrt{293}e^{13} + \frac{17}{1381}\sqrt{791}e^{25}, \frac{425}{1381}e^{14} + \frac{17}{1381}\sqrt{1045}e^{26}$	$(\frac{170}{1381}, \frac{85}{1381}, -\frac{289}{1381}, \frac{170}{1381}, -\frac{204}{1381}, \frac{255}{1381}, -\frac{119}{1381}, -\frac{119}{1381}, \frac{340}{1381})$ $+ \frac{17}{1381}\sqrt{1043}e^1 \otimes e_7 - \frac{17}{1381}\sqrt{1459}e^2 \otimes e_5$	{12349, 134569, 2467, 457}
941:122	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{19}e^{12}, \frac{2}{65}\sqrt{3}e^{34}, \frac{4}{65}e^{13} + \frac{2}{65}\sqrt{33}e^{25},$ $\frac{8}{65}\sqrt{2}e^{14} + \frac{2}{65}\sqrt{11}e^{26}$	$(-\frac{1}{13}, \frac{1}{65}, \frac{1}{13}, \frac{2}{65}, -\frac{1}{65}, -\frac{4}{65}, \frac{7}{65}, 0, -\frac{3}{65})$ $+ \frac{2}{65}\sqrt{33}e^4 \otimes e_8 + \frac{4}{65}\sqrt{7}e^5 \otimes e_9$	{1236789, 568}
941:122	$0, 0, 0, 0, 0, \frac{18}{1153}\sqrt{313}e^{12}, \frac{18}{1153}\sqrt{491}e^{34},$ $\frac{36}{1153}\sqrt{39}e^{13} + \frac{126}{1153}\sqrt{5}e^{25}, \frac{36}{1153}\sqrt{41}e^{14} + \frac{54}{1153}\sqrt{29}e^{26}$	$(\frac{135}{1153}, \frac{45}{1153}, -\frac{207}{1153}, \frac{90}{1153}, -\frac{117}{1153}, \frac{180}{1153}, -\frac{117}{1153}, -\frac{72}{1153}, \frac{225}{1153})$ $+ \frac{306}{1153}e^4 \otimes e_8 + \frac{72}{1153}\sqrt{46}e^2 \otimes e_7$	{14679, 23456}
941:122	$0, 0, 0, 0, 0, \frac{88}{2207}\sqrt{13}e^{12}, \frac{44}{2207}\sqrt{186}e^{34},$ $\frac{44}{2207}\sqrt{41}e^{13} + \frac{44}{2207}\sqrt{402}e^{25}, \frac{44}{2207}\sqrt{641}e^{14} + \frac{44}{2207}\sqrt{87}e^{26}$	$(\frac{506}{2207}, -\frac{286}{2207}, \frac{110}{2207}, -\frac{572}{2207}, \frac{902}{2207}, \frac{220}{2207}, -\frac{462}{2207}, \frac{616}{2207}, -\frac{66}{2207})$ $+ \frac{44}{2207}\sqrt{1049}e^5 \otimes e_9 + \frac{44}{2207}\sqrt{903}e^1 \otimes e_7$	{169, 23567}
941:122	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{13}e^{12}, \frac{2}{33}\sqrt{23}e^{34}, \frac{10}{33}e^{13} + \frac{2}{33}\sqrt{17}e^{25},$ $\frac{2}{33}\sqrt{5}e^{14} + \frac{2}{33}\sqrt{23}e^{26}$	$(\frac{1}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{2}{11}, \frac{3}{11}, 0, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11})$ $+ \frac{2}{33}\sqrt{42}e^1 \otimes e_7 - \frac{2}{33}\sqrt{47}e^3 \otimes e_9$	{12589, 1689, 235678, 378}
941:122	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{13}e^{12}, \frac{2}{33}\sqrt{23}e^{34}, \frac{10}{33}e^{13} + \frac{2}{33}\sqrt{17}e^{25},$ $\frac{2}{33}\sqrt{5}e^{14} + \frac{2}{33}\sqrt{23}e^{26}$	$(\frac{1}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{2}{11}, \frac{3}{11}, 0, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11})$ $+ \frac{2}{33}\sqrt{42}e^1 \otimes e_7 + \frac{2}{33}\sqrt{47}e^3 \otimes e_9$	{12589, 1689, 235678, 378}
941:122	$0, 0, 0, 0, 0, \frac{2}{2373}\sqrt{712281}e^{12}, \frac{4}{2373}\sqrt{153869}e^{34},$ $\frac{2}{2373}\sqrt{405453}e^{13} + \frac{2}{2373}\sqrt{290415}e^{25}, \frac{4}{2373}\sqrt{41779}e^{14} + \frac{2}{2373}\sqrt{184439}e^{26}$	$(\frac{53}{113}, -\frac{173}{2373}, -\frac{193}{791}, -\frac{346}{2373}, \frac{101}{339}, \frac{940}{2373}, -\frac{925}{2373}, \frac{178}{791}, \frac{767}{2373})$ $+ \frac{2}{2373}\sqrt{1988069}e^1 \otimes e_7$	{12589, 1689, 235678, 378}
941:122	$0, 0, 0, 0, 0, \frac{8}{753}\sqrt{186}e^{12}, \frac{4}{753}\sqrt{966}e^{34}, \frac{8}{753}\sqrt{21}e^{13} + \frac{4}{753}\sqrt{3}e^{25},$ $\frac{4}{753}\sqrt{555}e^{14} + \frac{4}{753}\sqrt{939}e^{26}$	$(\frac{14}{251}, -\frac{10}{251}, \frac{2}{251}, -\frac{20}{251}, \frac{26}{251}, \frac{4}{251}, -\frac{18}{251}, \frac{16}{251}, -\frac{6}{251})$ $+ \frac{4}{251}\sqrt{151}e^2 \otimes e_7 + \frac{4}{753}\sqrt{669}e^3 \otimes e_9$	{145679, 2346}
941:122	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{130}e^{12}, \frac{3}{85}\sqrt{70}e^{34}, \frac{1}{17}\sqrt{14}e^{13} + \frac{1}{85}\sqrt{330}e^{25},$ $\frac{1}{17}\sqrt{10}e^{14} + \frac{6}{85}\sqrt{15}e^{26}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{13}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{8}{85}, \frac{3}{85})$ $+ \frac{1}{85}\sqrt{1110}e^2 \otimes e_7 - \frac{1}{85}\sqrt{410}e^5 \otimes e_9$	{123489, 14679, 23456, 4578}
941:122	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{130}e^{12}, \frac{3}{85}\sqrt{70}e^{34}, \frac{1}{17}\sqrt{14}e^{13} + \frac{1}{85}\sqrt{330}e^{25},$ $\frac{1}{17}\sqrt{10}e^{14} + \frac{6}{85}\sqrt{15}e^{26}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{13}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{8}{85}, \frac{3}{85})$ $+ \frac{1}{85}\sqrt{1110}e^2 \otimes e_7 + \frac{1}{85}\sqrt{410}e^5 \otimes e_9$	{123489, 14679, 23456, 4578}
941:123	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{6}e^{12}, \frac{28}{97}\sqrt{3}e^{34}, \frac{84}{485}\sqrt{23}e^{15} + \frac{28}{485}\sqrt{138}e^{23},$ $\frac{56}{485}e^{14} + \frac{28}{485}\sqrt{209}e^{26}$	$(-\frac{126}{485}, \frac{6}{485}, \frac{146}{485}, \frac{12}{485}, \frac{278}{485}, -\frac{24}{97}, \frac{158}{485}, \frac{152}{485}, -\frac{114}{485})$ $+ \frac{28}{485}\sqrt{402}e^5 \otimes e_9$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{4}{89}\sqrt{210}e^{12}, \frac{4}{89}\sqrt{7}e^{34}, \frac{12}{89}\sqrt{7}e^{15} + \frac{4}{89}\sqrt{322}e^{23},$ $\frac{4}{89}\sqrt{322}e^{14} + \frac{12}{89}\sqrt{21}e^{26}$	$(-\frac{14}{89}, \frac{22}{89}, -\frac{34}{89}, \frac{44}{89}, \frac{2}{89}, \frac{8}{89}, \frac{10}{89}, -\frac{12}{89}, \frac{30}{89})$ $+ \frac{4}{89}\sqrt{546}e^4 \otimes e_8$	{126789, 1389, 2578, 3568}
941:123	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{5}e^{34}, \frac{2}{13}\sqrt{10}e^{15} + \frac{10}{13}e^{23},$ $\frac{10}{13}e^{14} + \frac{2}{13}\sqrt{5}e^{26}$	$(\frac{1}{13}, -\frac{2}{13}, \frac{7}{13}, -\frac{4}{13}, \frac{4}{13}, -\frac{1}{13}, \frac{3}{13}, \frac{5}{13}, -\frac{3}{13})$ $+ \frac{2}{13}\sqrt{55}e^3 \otimes e_9$	{12346, 13458, 24789, 45679}
941:123	$0, 0, 0, 0, 0, \frac{16}{445}\sqrt{354}e^{12}, \frac{4}{445}\sqrt{3599}e^{34}, \frac{4}{445}\sqrt{5487}e^{15} + \frac{4}{445}\sqrt{3658}e^{23},$ $\frac{8}{445}\sqrt{2773}e^{14} + \frac{4}{445}\sqrt{3599}e^{26}$	$(\frac{254}{445}, -\frac{6}{89}, \frac{66}{445}, -\frac{12}{89}, -\frac{218}{445}, \frac{224}{445}, \frac{6}{445}, \frac{36}{445}, \frac{194}{445})$ $+ \frac{12}{445}\sqrt{2478}e^1 \otimes e_5$	{12347, 146, 2345679, 459}
941:123	$0, 0, 0, 0, 0, \frac{1}{74}\sqrt{570}e^{12}, \frac{3}{74}\sqrt{70}e^{34}, \frac{1}{74}\sqrt{186}e^{15} + \frac{3}{74}\sqrt{42}e^{23},$ $\frac{3}{74}\sqrt{70}e^{14} + \frac{3}{74}\sqrt{70}e^{26}$	$(0, \frac{5}{74}, -\frac{11}{74}, \frac{5}{37}, -\frac{3}{37}, \frac{5}{74}, -\frac{1}{74}, -\frac{3}{37}, \frac{5}{37})$ $+ \frac{1}{74}\sqrt{6}e^1 \otimes e_5 + \frac{1}{74}\sqrt{762}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{1}{74}\sqrt{570}e^{12}, \frac{3}{74}\sqrt{70}e^{34}, \frac{1}{74}\sqrt{186}e^{15} + \frac{3}{74}\sqrt{42}e^{23},$ $\frac{3}{74}\sqrt{70}e^{14} + \frac{3}{74}\sqrt{70}e^{26}$	$(0, \frac{5}{74}, -\frac{11}{74}, \frac{5}{37}, -\frac{3}{37}, \frac{5}{74}, -\frac{1}{74}, -\frac{3}{37}, \frac{5}{37})$ $+ \frac{1}{74}\sqrt{6}e^1 \otimes e_5 - \frac{1}{74}\sqrt{762}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:123	$0, 0, 0, 0, 0, \frac{8}{59}\sqrt{5}e^{12}, \frac{4}{59}\sqrt{53}e^{34}, \frac{4}{59}\sqrt{47}e^{15} + \frac{20}{59}\sqrt{2}e^{23},$ $\frac{20}{59}\sqrt{2}e^{14} + \frac{4}{59}\sqrt{35}e^{26}$	$(-\frac{10}{59}, \frac{2}{59}, \frac{2}{59}, \frac{4}{59}, \frac{14}{59}, -\frac{8}{59}, \frac{6}{59}, \frac{4}{59}, -\frac{6}{59})$ $+\frac{12}{59}\sqrt{6}e^5 \otimes e_7 + \frac{4}{59}\sqrt{2}e^3 \otimes e_9$	{134569, 2467}
941:123	$0, 0, 0, 0, 0, \frac{12}{221}\sqrt{14}e^{12}, \frac{4}{221}\sqrt{465}e^{34}, \frac{12}{221}\sqrt{47}e^{15} + \frac{4}{221}\sqrt{366}e^{23},$ $\frac{4}{221}\sqrt{366}e^{14} + \frac{4}{221}\sqrt{267}e^{26}$	$(-\frac{38}{221}, \frac{14}{221}, -\frac{10}{221}, \frac{28}{221}, \frac{42}{221}, -\frac{24}{221}, \frac{18}{221}, \frac{4}{221}, -\frac{10}{221})$ $+\frac{16}{221}\sqrt{30}e^5 \otimes e_7 + \frac{4}{221}\sqrt{114}e^4 \otimes e_8$	{134569, 2467}
941:123	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{15}e^{12}, \frac{8}{25}\sqrt{5}e^{34}, \frac{4}{25}\sqrt{15}e^{15} + \frac{2}{5}\sqrt{3}e^{23},$ $\frac{4}{25}\sqrt{10}e^{14} + \frac{6}{25}\sqrt{5}e^{26}$	$(\frac{9}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{4}{25}, -\frac{8}{25}, \frac{7}{25}, -\frac{1}{25}, \frac{1}{25}, \frac{1}{5})$ $+\frac{2}{25}\sqrt{105}e^1 \otimes e_7$	{123489, 134569, 2467, 4578}
941:123	$0, 0, 0, 0, 0, \frac{96}{1907}\sqrt{15}e^{12}, \frac{16}{1907}\sqrt{835}e^{34},$ $\frac{16}{1907}\sqrt{885}e^{15} + \frac{64}{1907}\sqrt{58}e^{23}, \frac{96}{1907}\sqrt{10}e^{14} + \frac{16}{1907}\sqrt{727}e^{26}$	$(\frac{152}{1907}, -\frac{136}{1907}, \frac{296}{1907}, -\frac{272}{1907}, \frac{8}{1907}, \frac{16}{1907}, \frac{24}{1907}, \frac{160}{1907}, -\frac{120}{1907})$ $+\frac{16}{1907}\sqrt{690}e^5 \otimes e_9 + \frac{16}{1907}\sqrt{6}e^1 \otimes e_7$	{123489, 4578}
941:123	$0, 0, 0, 0, 0, \frac{8}{65}e^{12}, \frac{4}{65}\sqrt{11}e^{34}, \frac{4}{65}\sqrt{43}e^{15} + \frac{4}{65}\sqrt{62}e^{23},$ $\frac{8}{65}\sqrt{22}e^{14} + \frac{4}{65}\sqrt{11}e^{26}$	$(\frac{18}{65}, -\frac{2}{13}, \frac{22}{65}, -\frac{4}{13}, -\frac{6}{65}, \frac{8}{65}, \frac{2}{65}, \frac{12}{65}, -\frac{2}{65})$ $+\frac{4}{65}\sqrt{78}e^1 \otimes e_5 + \frac{8}{13}e^3 \otimes e_9$	{179, 235}
941:123	$0, 0, 0, 0, 0, \frac{4}{227}\sqrt{70}e^{12}, \frac{4}{227}\sqrt{3}e^{34}, \frac{4}{227}\sqrt{13}e^{15} + \frac{4}{227}\sqrt{118}e^{23},$ $\frac{4}{227}\sqrt{118}e^{14} + \frac{4}{227}\sqrt{41}e^{26}$	$(-\frac{22}{227}, \frac{6}{227}, -\frac{2}{227}, \frac{12}{227}, \frac{26}{227}, -\frac{16}{227}, \frac{10}{227}, \frac{4}{227}, -\frac{10}{227})$ $+\frac{40}{227}e^3 \otimes e_9 + \frac{4}{227}\sqrt{114}e^4 \otimes e_8$	{1256789, 368}
941:123	$0, 0, 0, 0, 0, \frac{80}{469}\sqrt{3}e^{12}, \frac{8}{469}\sqrt{814}e^{34}, \frac{8}{469}\sqrt{714}e^{15} + \frac{32}{469}\sqrt{47}e^{23},$ $\frac{32}{469}\sqrt{47}e^{14} + \frac{8}{469}\sqrt{538}e^{26}$	$(-\frac{76}{469}, \frac{12}{469}, \frac{24}{469}, \frac{24}{469}, \frac{16}{67}, -\frac{64}{469}, \frac{48}{469}, \frac{36}{469}, -\frac{52}{469})$ $+\frac{48}{469}\sqrt{23}e^5 \otimes e_7$	{134569, 146789, 234568, 2467}
941:123	$0, 0, 0, 0, 0, \frac{20}{293}\sqrt{6}e^{12}, \frac{20}{293}\sqrt{7}e^{34}, \frac{20}{293}\sqrt{3}e^{15} + \frac{4}{293}\sqrt{118}e^{23},$ $\frac{8}{293}\sqrt{42}e^{14} + \frac{4}{293}\sqrt{193}e^{26}$	$(-\frac{22}{293}, \frac{14}{293}, -\frac{22}{293}, \frac{28}{293}, \frac{14}{293}, -\frac{8}{293}, \frac{6}{293}, -\frac{8}{293}, \frac{6}{293})$ $+\frac{12}{293}\sqrt{6}e^5 \otimes e_9 + \frac{8}{293}\sqrt{51}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{20}{293}\sqrt{6}e^{12}, \frac{20}{293}\sqrt{7}e^{34}, \frac{20}{293}\sqrt{3}e^{15} + \frac{4}{293}\sqrt{118}e^{23},$ $\frac{8}{293}\sqrt{42}e^{14} + \frac{4}{293}\sqrt{193}e^{26}$	$(-\frac{22}{293}, \frac{14}{293}, -\frac{22}{293}, \frac{28}{293}, \frac{14}{293}, -\frac{8}{293}, \frac{6}{293}, -\frac{8}{293}, \frac{6}{293})$ $-\frac{12}{293}\sqrt{6}e^5 \otimes e_9 + \frac{8}{293}\sqrt{51}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{6}e^{12}, \frac{4}{47}\sqrt{17}e^{34}, \frac{4}{47}\sqrt{15}e^{15} + \frac{4}{47}\sqrt{6}e^{23},$ $\frac{4}{47}\sqrt{2}e^{14} + \frac{4}{47}\sqrt{3}e^{26}$	$(\frac{6}{47}, \frac{2}{47}, -\frac{6}{47}, \frac{4}{47}, -\frac{10}{47}, \frac{8}{47}, -\frac{2}{47}, -\frac{4}{47}, \frac{10}{47})$ $+\frac{12}{47}\sqrt{2}e^4 \otimes e_8 + \frac{8}{47}\sqrt{6}e^1 \otimes e_7$	{1689, 235678}
941:123	$0, 0, 0, 0, 0, \frac{4}{493}\sqrt{1590}e^{12}, \frac{4}{493}\sqrt{1765}e^{34}, \frac{20}{493}\sqrt{21}e^{15} + \frac{8}{493}\sqrt{265}e^{23},$ $\frac{4}{493}\sqrt{1770}e^{14} + \frac{4}{493}\sqrt{1765}e^{26}$	$(-\frac{2}{493}, \frac{2}{29}, -\frac{74}{493}, \frac{4}{29}, -\frac{38}{493}, \frac{32}{493}, -\frac{6}{493}, -\frac{40}{493}, \frac{66}{493})$ $+\frac{4}{493}\sqrt{2130}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{2}e^{12}, \frac{1}{68}\sqrt{278}e^{34}, \frac{3}{34}\sqrt{2}e^{15} + \frac{1}{68}\sqrt{226}e^{23},$ $\frac{1}{17}\sqrt{21}e^{14} + \frac{1}{34}\sqrt{78}e^{26}$	$(\frac{5}{68}, 0, -\frac{1}{34}, 0, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68})$ $-\frac{1}{68}\sqrt{102}e^4 \otimes e_8 + \frac{1}{68}\sqrt{330}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:123	$0, 0, 0, 0, 0, \frac{3}{17}\sqrt{2}e^{12}, \frac{1}{68}\sqrt{278}e^{34}, \frac{3}{34}\sqrt{2}e^{15} + \frac{1}{68}\sqrt{226}e^{23},$ $\frac{1}{17}\sqrt{21}e^{14} + \frac{1}{34}\sqrt{78}e^{26}$	$(\frac{5}{68}, 0, -\frac{1}{34}, 0, -\frac{7}{68}, \frac{5}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68})$ $+\frac{1}{68}\sqrt{102}e^4 \otimes e_8 + \frac{1}{68}\sqrt{330}e^2 \otimes e_7$	{123489, 146789, 234568, 4578}
941:124	$0, 0, 0, 0, 0, \frac{19}{821}\sqrt{210}e^{12}, \frac{171}{821}\sqrt{6}e^{13} + \frac{342}{821}\sqrt{2}e^{24}, \frac{19}{821}\sqrt{670}e^{35},$ $\frac{342}{821}\sqrt{2}e^{14} + \frac{38}{821}\sqrt{93}e^{26}$	$(\frac{114}{821}, \frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{171}{821}, \frac{171}{821}, -\frac{247}{821}, \frac{228}{821})$ $+\frac{152}{821}\sqrt{21}e^4 \otimes e_8 + \frac{19}{821}\sqrt{118}e^3 \otimes e_5$	{1236789, 1589, 2578, 368}
941:124	$0, 0, 0, 0, 0, \frac{19}{821}\sqrt{210}e^{12}, \frac{171}{821}\sqrt{6}e^{13} + \frac{342}{821}\sqrt{2}e^{24}, \frac{19}{821}\sqrt{670}e^{35},$ $\frac{342}{821}\sqrt{2}e^{14} + \frac{38}{821}\sqrt{93}e^{26}$	$(\frac{114}{821}, \frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{171}{821}, \frac{171}{821}, -\frac{247}{821}, \frac{228}{821})$ $-\frac{152}{821}\sqrt{21}e^4 \otimes e_8 + \frac{19}{821}\sqrt{118}e^3 \otimes e_5$	{1236789, 1589, 2578, 368}
941:124	$0, 0, 0, 0, 0, \frac{129}{7045}\sqrt{130}e^{12}, \frac{43}{7045}\sqrt{3338}e^{13} + \frac{344}{7045}\sqrt{7}e^{24},$ $\frac{688}{7045}\sqrt{14}e^{35}, \frac{43}{7045}\sqrt{1214}e^{14} + \frac{43}{7045}\sqrt{2298}e^{26}$	$(-\frac{946}{7045}, -\frac{43}{7045}, \frac{817}{7045}, -\frac{86}{7045}, \frac{344}{1409}, -\frac{989}{7045}, -\frac{129}{7045}, \frac{2537}{7045}, -\frac{1032}{7045})$ $+\frac{43}{7045}\sqrt{5534}e^5 \otimes e_7 + \frac{43}{7045}\sqrt{7066}e^3 \otimes e_9$	{123456, 24589}
941:124	$0, 0, 0, 0, 0, \frac{50}{5381}\sqrt{589}e^{12}, \frac{25}{5381}\sqrt{446}e^{13} + \frac{25}{5381}\sqrt{610}e^{24},$ $\frac{50}{5381}\sqrt{934}e^{35}, \frac{450}{5381}e^{14} + \frac{150}{5381}\sqrt{97}e^{26}$	$(-\frac{200}{5381}, \frac{225}{5381}, \frac{875}{5381}, \frac{450}{5381}, -\frac{1275}{5381}, \frac{25}{5381}, \frac{675}{5381}, -\frac{400}{5381}, \frac{250}{5381})$ $+\frac{25}{5381}\sqrt{3854}e^3 \otimes e_9 + \frac{25}{5381}\sqrt{5722}e^2 \otimes e_8$	{1249, 23456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:124	$0, 0, 0, 0, 0, \frac{23}{8997}\sqrt{1738}e^{12}, \frac{460}{2999}e^{13} + \frac{46}{8997}\sqrt{938}e^{24}, \frac{23}{8997}\sqrt{4798}e^{35},$ $\frac{161}{2999}\sqrt{10}e^{14} + \frac{23}{8997}\sqrt{3178}e^{26}$	$(-\frac{46}{2999}, \frac{253}{8997}, \frac{299}{2999}, \frac{506}{8997}, -\frac{1564}{8997}, \frac{115}{8997}, \frac{253}{2999}, -\frac{667}{8997}, \frac{368}{8997})$ $+\frac{23}{8997}\sqrt{7802}e^1 \otimes e_8 + \frac{23}{8997}\sqrt{8522}e^3 \otimes e_9$	{1679, 378}
941:124	$0, 0, 0, 0, 0, \frac{1}{689}\sqrt{35826}e^{12}, \frac{3}{689}\sqrt{56298}e^{13} + \frac{2}{689}\sqrt{25590}e^{24},$ $\frac{1}{689}\sqrt{104066}e^{35}, \frac{2}{689}\sqrt{25590}e^{14} + \frac{2}{689}\sqrt{33267}e^{26}$	$(-\frac{102}{689}, \frac{9}{53}, \frac{453}{689}, \frac{18}{53}, -\frac{400}{689}, \frac{15}{53}, \frac{27}{689}, \frac{1}{13}, \frac{132}{689})$ $+\frac{5}{689}\sqrt{39238}e^3 \otimes e_5$	{1236, 157, 259, 3679}
941:124	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{11}e^{12}, \frac{2}{31}\sqrt{55}e^{13} + \frac{2}{31}\sqrt{33}e^{24}, \frac{4}{31}\sqrt{33}e^{35},$ $\frac{2}{31}\sqrt{110}e^{14} + \frac{4}{31}\sqrt{22}e^{26}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{2}{31}, -\frac{2}{31}, \frac{19}{31}, -\frac{2}{31}, -\frac{3}{31}, \frac{17}{31}, -\frac{3}{31})$ $+\frac{2}{31}\sqrt{286}e^5 \otimes e_9$	{129, 136789, 2356, 578}
941:124	$0, 0, 0, 0, 0, \frac{20}{1449}\sqrt{130}e^{12}, \frac{5}{1449}\sqrt{2190}e^{13} + \frac{10}{1449}\sqrt{1515}e^{24},$ $\frac{10}{1449}\sqrt{1390}e^{35}, \frac{5}{1449}\sqrt{3390}e^{14} + \frac{5}{1449}\sqrt{2810}e^{26}$	$(\frac{190}{1449}, -\frac{5}{483}, -\frac{235}{1449}, -\frac{10}{483}, \frac{80}{1449}, \frac{25}{207}, -\frac{5}{161}, -\frac{155}{1449}, \frac{160}{1449})$ $+\frac{10}{1449}\sqrt{1335}e^5 \otimes e_7 + \frac{5}{1449}\sqrt{8130}e^4 \otimes e_8$	{1236789, 1589}
941:124	$0, 0, 0, 0, 0, \frac{2}{2969}\sqrt{105429}e^{12}, \frac{2}{2969}\sqrt{71561}e^{13} + \frac{60}{2969}\sqrt{622}e^{24},$ $\frac{2}{2969}\sqrt{684822}e^{35}, \frac{2}{2969}\sqrt{603651}e^{14} + \frac{2}{2969}\sqrt{908742}e^{26}$	$(-\frac{826}{2969}, \frac{214}{2969}, \frac{1468}{2969}, \frac{428}{2969}, -\frac{259}{2969}, -\frac{612}{2969}, \frac{642}{2969}, \frac{1209}{2969}, -\frac{398}{2969})$ $+\frac{2}{2969}\sqrt{2326902}e^3 \otimes e_9$	{1345, 1348, 45689, 469}
941:124	$0, 0, 0, 0, 0, \frac{37}{4025}\sqrt{2874}e^{12}, \frac{111}{4025}\sqrt{158}e^{13} + \frac{111}{4025}\sqrt{186}e^{24},$ $\frac{37}{4025}\sqrt{2938}e^{35}, \frac{37}{4025}\sqrt{1482}e^{14} + \frac{148}{805}\sqrt{6}e^{26}$	$(\frac{111}{805}, \frac{222}{4025}, \frac{111}{4025}, \frac{444}{4025}, -\frac{1258}{4025}, \frac{111}{575}, \frac{666}{4025}, -\frac{1147}{4025}, \frac{999}{4025})$ $+\frac{37}{4025}\sqrt{658}e^3 \otimes e_5 + \frac{74}{4025}\sqrt{1578}e^2 \otimes e_8$	{1346789, 4578}
941:124	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{137}e^{13} + \frac{12}{221}\sqrt{15}e^{24}, \frac{6}{221}\sqrt{249}e^{35},$ $\frac{6}{221}\sqrt{86}e^{14} + \frac{24}{221}e^{26}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $+\frac{6}{221}\sqrt{367}e^5 \otimes e_7 + \frac{6}{221}\sqrt{419}e^1 \otimes e_8$	{12345, 1467, 245689, 34789}
941:124	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{78}e^{12}, \frac{6}{221}\sqrt{137}e^{13} + \frac{12}{221}\sqrt{15}e^{24}, \frac{6}{221}\sqrt{249}e^{35},$ $\frac{6}{221}\sqrt{86}e^{14} + \frac{24}{221}e^{26}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{72}{221}, -\frac{12}{221}, \frac{54}{221}, \frac{48}{221}, -\frac{18}{221}, -\frac{18}{221}, \frac{42}{221})$ $-\frac{6}{221}\sqrt{367}e^5 \otimes e_7 + \frac{6}{221}\sqrt{419}e^1 \otimes e_8$	{12345, 1467, 245689, 34789}
941:124	$0, 0, 0, 0, 0, \frac{26}{3429}\sqrt{731}e^{12}, \frac{26}{3429}\sqrt{309}e^{13} + \frac{26}{1143}\sqrt{109}e^{24},$ $\frac{26}{3429}\sqrt{1246}e^{35}, \frac{52}{3429}\sqrt{141}e^{14} + \frac{52}{3429}\sqrt{157}e^{26}$	$(\frac{481}{3429}, -\frac{13}{1143}, -\frac{598}{3429}, -\frac{26}{1143}, \frac{221}{3429}, \frac{442}{3429}, -\frac{13}{381}, -\frac{377}{3429}, \frac{403}{3429})$ $+\frac{26}{1143}\sqrt{218}e^2 \otimes e_8 + \frac{52}{3429}\sqrt{282}e^5 \otimes e_7$	{1346789, 23456}
941:124	$0, 0, 0, 0, 0, \frac{110}{2889}\sqrt{115}e^{12}, \frac{2}{2889}\sqrt{686895}e^{13} + \frac{2}{963}\sqrt{137885}e^{24},$ $\frac{46}{2889}\sqrt{1870}e^{35}, \frac{4}{2889}\sqrt{72105}e^{14} + \frac{2}{2889}\sqrt{118910}e^{26}$	$(\frac{431}{2889}, -\frac{47}{963}, -\frac{854}{2889}, -\frac{94}{963}, \frac{2107}{2889}, \frac{290}{2889}, -\frac{47}{321}, \frac{1253}{2889}, \frac{149}{2889})$ $+\frac{2}{2889}\sqrt{3058770}e^5 \otimes e_7$	{1234569, 1479, 2458, 34678}
941:124	$0, 0, 0, 0, 0, \frac{19}{821}\sqrt{238}e^{12}, \frac{19}{821}\sqrt{410}e^{13} + \frac{38}{821}\sqrt{62}e^{24}, \frac{19}{821}\sqrt{222}e^{35},$ $\frac{190}{821}\sqrt{2}e^{14} + \frac{38}{821}\sqrt{19}e^{26}$	$(\frac{114}{821}, \frac{57}{821}, \frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{171}{821}, \frac{171}{821}, -\frac{247}{821}, \frac{228}{821})$ $+\frac{152}{821}\sqrt{14}e^1 \otimes e_8 + \frac{19}{821}\sqrt{566}e^3 \otimes e_5$	{2568, 378}
941:124	$0, 0, 0, 0, 0, \frac{18}{7373}\sqrt{301}e^{12}, \frac{117}{7373}\sqrt{26}e^{13} + \frac{63}{7373}\sqrt{62}e^{24},$ $\frac{18}{7373}\sqrt{1595}e^{35}, \frac{180}{7373}\sqrt{15}e^{14} + \frac{9}{7373}\sqrt{694}e^{26}$	$(\frac{315}{7373}, -\frac{54}{7373}, -\frac{477}{7373}, -\frac{108}{7373}, \frac{288}{7373}, \frac{261}{7373}, -\frac{162}{7373}, -\frac{189}{7373}, \frac{207}{7373})$ $+\frac{18}{7373}\sqrt{1481}e^5 \otimes e_9 + \frac{9}{7373}\sqrt{7790}e^4 \otimes e_8$	{1236789, 2578}
941:124	$0, 0, 0, 0, 0, \frac{34}{4269}\sqrt{599}e^{12}, \frac{34}{4269}\sqrt{15}e^{13} + \frac{238}{4269}\sqrt{13}e^{24},$ $\frac{68}{4269}\sqrt{367}e^{35}, \frac{34}{4269}\sqrt{1290}e^{14} + \frac{68}{4269}\sqrt{143}e^{26}$	$(\frac{187}{1423}, -\frac{119}{4269}, -\frac{306}{1423}, -\frac{238}{4269}, \frac{901}{4269}, \frac{442}{4269}, -\frac{119}{1423}, -\frac{17}{4269}, \frac{323}{4269})$ $+\frac{340}{4269}\sqrt{19}e^1 \otimes e_8 + \frac{34}{4269}\sqrt{1954}e^5 \otimes e_9$	{129, 578}
941:124	$0, 0, 0, 0, 0, \frac{58}{5093}\sqrt{273}e^{12}, \frac{29}{5093}\sqrt{974}e^{13} + \frac{58}{5093}\sqrt{401}e^{24},$ $\frac{58}{5093}\sqrt{930}e^{35}, \frac{87}{5093}\sqrt{398}e^{14} + \frac{203}{5093}\sqrt{2}e^{26}$	$(-\frac{290}{5093}, \frac{261}{5093}, \frac{1073}{5093}, \frac{522}{5093}, -\frac{1392}{5093}, -\frac{29}{5093}, \frac{783}{5093}, -\frac{29}{463}, \frac{232}{5093})$ $+\frac{29}{5093}\sqrt{5294}e^4 \otimes e_8 + \frac{58}{5093}\sqrt{989}e^3 \otimes e_9$	{1589, 368}
941:124	$0, 0, 0, 0, 0, \frac{2}{2993}\sqrt{869921}e^{12}, \frac{2}{2993}\sqrt{387241}e^{13} + \frac{2}{2993}\sqrt{538627}e^{24},$ $\frac{8}{2993}\sqrt{60335}e^{35}, \frac{8}{2993}\sqrt{51559}e^{14} + \frac{2}{2993}\sqrt{89954}e^{26}$	$(\frac{15}{41}, \frac{3}{73}, -\frac{726}{2993}, \frac{6}{73}, -\frac{373}{2993}, \frac{1218}{2993}, \frac{9}{73}, -\frac{1099}{2993}, \frac{1341}{2993})$ $+\frac{2}{2993}\sqrt{2727142}e^1 \otimes e_8$	{12359, 1679, 2568, 378}
941:124	$0, 0, 0, 0, 0, \frac{1}{342}\sqrt{55510}e^{12}, \frac{1}{342}\sqrt{37515}e^{13} + \frac{1}{684}\sqrt{182085}e^{24},$ $\frac{5}{342}\sqrt{1891}e^{35}, \frac{1}{684}\sqrt{182085}e^{14} + \frac{1}{684}\sqrt{105530}e^{26}$	$(\frac{233}{1368}, \frac{29}{456}, \frac{7}{342}, \frac{29}{228}, -\frac{58}{171}, \frac{40}{171}, \frac{29}{152}, -\frac{109}{342}, \frac{407}{1368})$ $+\frac{1}{342}\sqrt{92415}e^4 \otimes e_8$	{1236789, 1589, 2578, 368}
941:124	$0, 0, 0, 0, 0, \frac{10}{63}\sqrt{11}e^{12}, \frac{2}{63}\sqrt{165}e^{13} + \frac{2}{63}\sqrt{165}e^{24}, \frac{2}{63}\sqrt{286}e^{35},$ $\frac{4}{63}\sqrt{33}e^{14} + \frac{4}{63}\sqrt{55}e^{26}$	$(\frac{11}{63}, \frac{1}{21}, -\frac{2}{63}, \frac{2}{21}, -\frac{17}{63}, \frac{2}{9}, \frac{1}{7}, -\frac{19}{63}, \frac{17}{63})$ $+\frac{2}{21}\sqrt{66}e^2 \otimes e_8$	{1249, 1346789, 23456, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:125	$0, 0, 0, 0, 0, \frac{72}{383}e^{12}, \frac{12}{383}\sqrt{157}e^{13}, \frac{12}{383}\sqrt{145}e^{45},$ $\frac{12}{383}\sqrt{14}e^{14} + \frac{12}{383}\sqrt{29}e^{26} + \frac{12}{383}\sqrt{38}e^{35}$	$(-\frac{72}{383}, \frac{42}{383}, \frac{84}{383}, \frac{84}{383}, -\frac{72}{383}, -\frac{30}{383}, \frac{12}{383}, \frac{12}{383}, \frac{12}{383})$ $+\frac{24}{383}\sqrt{42}e^3 \otimes e_8 + \frac{72}{383}\sqrt{5}e^4 \otimes e_7$	{125678, 1578}
941:125	$0, 0, 0, 0, 0, \frac{12}{109}\sqrt{14}e^{12}, \frac{5}{109}\sqrt{21}e^{13}, \frac{6}{109}\sqrt{70}e^{45},$ $\frac{1}{109}\sqrt{1995}e^{14} + \frac{6}{109}\sqrt{70}e^{26} + \frac{1}{109}\sqrt{987}e^{35}$	$(\frac{3}{218}, \frac{1}{109}, \frac{51}{218}, \frac{2}{109}, -\frac{22}{109}, \frac{5}{218}, \frac{27}{109}, -\frac{20}{109}, \frac{7}{218})$ $+\frac{63}{109}e^2 \otimes e_8$	{123459, 146789, 2456, 3478}
941:125	$0, 0, 0, 0, 0, \frac{72}{535}\sqrt{15}e^{12}, \frac{12}{535}\sqrt{865}e^{13}, \frac{12}{535}\sqrt{1045}e^{45},$ $\frac{12}{535}\sqrt{190}e^{14} + \frac{12}{535}\sqrt{305}e^{26} + \frac{12}{107}\sqrt{26}e^{35}$	$(\frac{216}{535}, -\frac{78}{535}, \frac{48}{535}, -\frac{156}{535}, \frac{12}{535}, \frac{138}{535}, \frac{264}{535}, -\frac{144}{535}, \frac{12}{107})$ $+\frac{24}{535}\sqrt{555}e^1 \otimes e_8$	{1279, 1679, 2568, 58}
941:125	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{42}e^{12}, \frac{2}{33}\sqrt{35}e^{13}, \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{33}\sqrt{10}e^{14} + \frac{2}{11}e^{26} + \frac{1}{33}\sqrt{26}e^{35}$	$(\frac{7}{33}, -\frac{1}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{7}{33}, \frac{4}{33}, \frac{1}{33}, \frac{1}{33}, \frac{1}{33})$ $+\frac{1}{33}\sqrt{170}e^5 \otimes e_7 + \frac{2}{33}\sqrt{46}e^1 \otimes e_8$	{123459, 134569, 234678, 3478}
941:125	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{42}e^{12}, \frac{2}{33}\sqrt{35}e^{13}, \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{33}\sqrt{10}e^{14} + \frac{2}{11}e^{26} + \frac{1}{33}\sqrt{26}e^{35}$	$(\frac{7}{33}, -\frac{1}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{7}{33}, \frac{4}{33}, \frac{1}{33}, \frac{1}{33}, \frac{1}{33})$ $-\frac{1}{33}\sqrt{170}e^5 \otimes e_7 + \frac{2}{33}\sqrt{46}e^1 \otimes e_8$	{123459, 134569, 234678, 3478}
941:125	$0, 0, 0, 0, 0, \frac{8}{1045}\sqrt{606}e^{12}, \frac{8}{1045}\sqrt{131}e^{13}, \frac{8}{1045}\sqrt{957}e^{45},$ $\frac{16}{1045}\sqrt{285}e^{14} + \frac{8}{1045}\sqrt{1131}e^{26} + \frac{16}{1045}\sqrt{66}e^{35}$	$(-\frac{8}{55}, \frac{84}{1045}, \frac{28}{209}, \frac{168}{1045}, -\frac{124}{1045}, -\frac{68}{1045}, -\frac{12}{1045}, \frac{4}{1045}, \frac{16}{1045})$ $+\frac{16}{1045}\sqrt{417}e^2 \otimes e_7 + \frac{8}{1045}\sqrt{1146}e^3 \otimes e_8$	{123459, 146789}
941:125	$0, 0, 0, 0, 0, \frac{360}{2519}\sqrt{11}e^{12}, \frac{60}{2519}\sqrt{1069}e^{13}, \frac{60}{2519}\sqrt{937}e^{45},$ $\frac{420}{2519}\sqrt{10}e^{14} + \frac{60}{2519}\sqrt{221}e^{26} + \frac{60}{2519}\sqrt{782}e^{35}$	$(-\frac{72}{229}, \frac{546}{2519}, \frac{84}{2519}, \frac{1092}{2519}, \frac{216}{2519}, -\frac{246}{2519}, -\frac{708}{2519}, \frac{1308}{2519}, \frac{300}{2519})$ $+\frac{120}{2519}\sqrt{537}e^4 \otimes e_7$	{123468, 1348, 2489, 4689}
941:125	$0, 0, 0, 0, 0, \frac{18}{3449}\sqrt{102}e^{12}, \frac{24}{3449}\sqrt{85}e^{13}, \frac{6}{3449}\sqrt{1081}e^{45},$ $\frac{6}{3449}\sqrt{665}e^{14} + \frac{6}{3449}\sqrt{1214}e^{26} + \frac{12}{3449}\sqrt{221}e^{35}$	$(\frac{81}{3449}, -\frac{39}{3449}, -\frac{138}{3449}, -\frac{78}{3449}, \frac{141}{3449}, \frac{42}{3449}, -\frac{57}{3449}, \frac{63}{3449}, \frac{3}{3449})$ $+\frac{12}{3449}\sqrt{339}e^1 \otimes e_8 + \frac{18}{3449}\sqrt{195}e^2 \otimes e_7$	{123459, 3478}
941:125	$0, 0, 0, 0, 0, \frac{90}{659}\sqrt{14}e^{12}, \frac{6}{659}\sqrt{4290}e^{13}, \frac{78}{659}\sqrt{15}e^{45},$ $\frac{6}{659}\sqrt{3855}e^{14} + \frac{12}{659}\sqrt{1335}e^{26} + \frac{12}{659}\sqrt{570}e^{35}$	$(-\frac{141}{659}, \frac{93}{659}, -\frac{36}{659}, \frac{186}{659}, \frac{81}{659}, \frac{48}{659}, -\frac{177}{659}, \frac{267}{659}, \frac{45}{659})$ $+\frac{18}{659}\sqrt{935}e^2 \otimes e_7$	{123459, 146789, 2456, 3478}
941:125	$0, 0, 0, 0, 0, \frac{9}{164}\sqrt{14}e^{12}, \frac{3}{82}\sqrt{427}e^{13}, \frac{15}{164}\sqrt{70}e^{45},$ $\frac{3}{82}\sqrt{329}e^{14} + \frac{3}{82}\sqrt{119}e^{26} + \frac{3}{164}\sqrt{658}e^{35}$	$(\frac{9}{164}, \frac{3}{82}, \frac{159}{328}, \frac{3}{41}, -\frac{117}{328}, \frac{15}{164}, \frac{177}{328}, -\frac{93}{328}, \frac{21}{164})$ $+\frac{21}{164}\sqrt{78}e^3 \otimes e_8$	{234567, 2468, 3457, 48}
941:125	$0, 0, 0, 0, 0, \frac{36}{1025}\sqrt{33}e^{12}, \frac{9}{1025}\sqrt{17}e^{13}, \frac{18}{1025}\sqrt{257}e^{45},$ $\frac{9}{1025}\sqrt{511}e^{14} + \frac{18}{1025}\sqrt{211}e^{26} + \frac{18}{1025}\sqrt{523}e^{35}$	$(-\frac{9}{82}, \frac{63}{1025}, \frac{63}{410}, \frac{126}{1025}, -\frac{144}{1025}, -\frac{99}{2050}, \frac{9}{205}, -\frac{18}{1025}, \frac{27}{2050})$ $+\frac{18}{1025}\sqrt{138}e^4 \otimes e_7 + \frac{9}{1025}\sqrt{1281}e^2 \otimes e_8$	{123459, 2456}
941:126	$0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{14630}e^{12}, \frac{4}{2071}\sqrt{100310}e^{13}, \frac{16}{2071}\sqrt{2415}e^{45},$ $\frac{24}{2071}\sqrt{1085}e^{16} + \frac{4}{2071}\sqrt{87430}e^{24} + \frac{8}{2071}\sqrt{14595}e^{35}$	$(\frac{135}{2071}, -\frac{239}{2071}, -\frac{425}{2071}, \frac{270}{2071}, \frac{24}{109}, -\frac{104}{2071}, -\frac{290}{2071}, \frac{726}{2071}, \frac{31}{2071})$ $+\frac{28}{2071}\sqrt{2710}e^4 \otimes e_7$	{12679, 1578, 235789, 367}
941:126	$0, 0, 0, 0, 0, \frac{3}{2399}\sqrt{154}e^{12}, \frac{3}{2399}\sqrt{1826}e^{13}, \frac{3}{2399}\sqrt{1958}e^{45},$ $\frac{54}{2399}\sqrt{2}e^{16} + \frac{3}{2399}\sqrt{406}e^{24} + \frac{3}{2399}\sqrt{1482}e^{35}$	$(\frac{33}{2399}, -\frac{84}{2399}, \frac{24}{2399}, \frac{66}{2399}, -\frac{42}{2399}, -\frac{51}{2399}, \frac{57}{2399}, \frac{24}{2399}, -\frac{18}{2399})$ $+\frac{3}{2399}\sqrt{2302}e^1 \otimes e_8 + \frac{6}{2399}\sqrt{526}e^4 \otimes e_7$	{1279, 2356789}
941:126	$0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{230770}e^{12}, \frac{1}{1157}\sqrt{52170}e^{13}, \frac{1}{1157}\sqrt{285290}e^{45},$ $\frac{10}{1157}\sqrt{2679}e^{16} + \frac{1}{1157}\sqrt{200690}e^{24} + \frac{1}{1157}\sqrt{111390}e^{35}$	$(-\frac{15}{1157}, \frac{86}{1157}, \frac{276}{1157}, -\frac{30}{1157}, -\frac{220}{1157}, \frac{71}{1157}, \frac{261}{1157}, -\frac{250}{1157}, \frac{56}{1157})$ $+\frac{1}{1157}\sqrt{473290}e^1 \otimes e_8$	{123459, 14567, 24689, 3478}
941:126	$0, 0, 0, 0, 0, \frac{3}{997}\sqrt{1870}e^{12}, \frac{3}{997}\sqrt{4610}e^{13}, \frac{6}{997}\sqrt{710}e^{45},$ $\frac{3}{997}\sqrt{1810}e^{16} + \frac{18}{997}\sqrt{130}e^{24} + \frac{3}{997}\sqrt{3230}e^{35}$	$(-\frac{30}{997}, \frac{87}{997}, -\frac{75}{997}, -\frac{60}{997}, \frac{102}{997}, \frac{57}{997}, -\frac{105}{997}, \frac{42}{997}, \frac{27}{997})$ $+\frac{15}{997}\sqrt{122}e^2 \otimes e_8 + \frac{3}{997}\sqrt{6290}e^4 \otimes e_7$	{12679, 1578}
941:126	$0, 0, 0, 0, 0, \frac{3}{317}\sqrt{177}e^{12}, \frac{3}{317}\sqrt{106}e^{13}, \frac{3}{317}\sqrt{291}e^{45},$ $\frac{42}{317}e^{16} + \frac{3}{317}\sqrt{182}e^{24} + \frac{3}{317}\sqrt{57}e^{35}$	$(-\frac{12}{317}, \frac{33}{317}, \frac{6}{317}, -\frac{24}{317}, \frac{3}{317}, \frac{21}{317}, -\frac{6}{317}, -\frac{21}{317}, \frac{9}{317})$ $+\frac{3}{317}\sqrt{179}e^5 \otimes e_7 + \frac{3}{317}\sqrt{394}e^1 \otimes e_8$	{123459, 3478}
941:126	$0, 0, 0, 0, 0, \frac{387}{5245}\sqrt{2}e^{12}, \frac{129}{5245}\sqrt{466}e^{13}, \frac{86}{5245}\sqrt{267}e^{45},$ $\frac{43}{5245}\sqrt{1802}e^{16} + \frac{539}{5245}\sqrt{14}e^{24} + \frac{344}{5245}\sqrt{2}e^{35}$	$(-\frac{602}{5245}, \frac{387}{1049}, \frac{688}{5245}, -\frac{1204}{5245}, \frac{43}{5245}, \frac{1333}{5245}, \frac{86}{5245}, -\frac{1161}{5245}, \frac{731}{5245})$ $+\frac{344}{5245}\sqrt{69}e^3 \otimes e_8 + \frac{86}{5245}\sqrt{1262}e^2 \otimes e_7$	{1578, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:126	$0, 0, 0, 0, 0, \frac{6}{85}\sqrt{15}e^{12}, \frac{1}{85}\sqrt{330}e^{13}, \frac{3}{85}\sqrt{70}e^{45},$ $\frac{2}{85}\sqrt{130}e^{16} + \frac{1}{17}\sqrt{10}e^{24} + \frac{1}{17}\sqrt{14}e^{35}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{1}{17})$ $+\frac{1}{85}\sqrt{1110}e^1 \otimes e_8 - \frac{1}{85}\sqrt{410}e^2 \otimes e_7$	{123459, 14567, 24689, 3478}
941:126	$0, 0, 0, 0, 0, \frac{4}{469}\sqrt{7106}e^{12}, \frac{6}{469}\sqrt{209}e^{13}, \frac{10}{469}\sqrt{1254}e^{45},$ $\frac{4}{469}\sqrt{1254}e^{16} + \frac{2}{469}\sqrt{14630}e^{24} + \frac{2}{469}\sqrt{10659}e^{35}$	$(-\frac{69}{469}, \frac{263}{469}, \frac{142}{469}, -\frac{138}{469}, -\frac{17}{469}, \frac{194}{469}, \frac{73}{469}, -\frac{155}{469}, \frac{125}{469})$ $+\frac{6}{469}\sqrt{8987}e^2 \otimes e_8$	{129, 1568, 2679, 578}
941:126	$0, 0, 0, 0, 0, \frac{6}{85}\sqrt{15}e^{12}, \frac{1}{85}\sqrt{330}e^{13}, \frac{3}{85}\sqrt{70}e^{45},$ $\frac{2}{85}\sqrt{130}e^{16} + \frac{1}{17}\sqrt{10}e^{24} + \frac{1}{17}\sqrt{14}e^{35}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{2}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{3}{17}, \frac{1}{17})$ $+\frac{1}{85}\sqrt{1110}e^1 \otimes e_8 + \frac{1}{85}\sqrt{410}e^2 \otimes e_7$	{123459, 14567, 24689, 3478}
941:126	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{3795}e^{12}, \frac{1}{287}\sqrt{45034}e^{13}, \frac{13}{287}\sqrt{253}e^{45},$ $\frac{5}{287}\sqrt{506}e^{16} + \frac{1}{287}\sqrt{9614}e^{24} + \frac{1}{287}\sqrt{26565}e^{35}$	$(-\frac{9}{287}, \frac{74}{287}, -\frac{94}{287}, -\frac{18}{287}, \frac{150}{287}, \frac{65}{287}, -\frac{103}{287}, \frac{132}{287}, \frac{8}{41})$ $+\frac{1}{287}\sqrt{121187}e^5 \otimes e_7$	{1345, 1478, 234789, 2459}
941:126	$0, 0, 0, 0, 0, \frac{1}{369}\sqrt{6270}e^{12}, \frac{5}{123}\sqrt{418}e^{13}, \frac{2}{123}\sqrt{285}e^{45},$ $\frac{1}{369}\sqrt{41610}e^{16} + \frac{19}{123}\sqrt{30}e^{24} + \frac{8}{369}\sqrt{570}e^{35}$	$(-\frac{50}{369}, \frac{187}{369}, -\frac{16}{123}, -\frac{100}{369}, \frac{15}{123}, \frac{137}{369}, -\frac{98}{369}, \frac{35}{369}, \frac{29}{123})$ $+\frac{2}{369}\sqrt{45030}e^2 \otimes e_7$	{1234, 14679, 24568, 345789}
941:126	$0, 0, 0, 0, 0, \frac{75}{2069}\sqrt{10}e^{12}, \frac{15}{2069}\sqrt{1370}e^{13}, \frac{30}{2069}\sqrt{305}e^{45},$ $\frac{15}{2069}\sqrt{514}e^{16} + \frac{15}{2069}\sqrt{314}e^{24} + \frac{90}{2069}\sqrt{22}e^{35}$	$(-\frac{150}{2069}, \frac{435}{2069}, \frac{30}{2069}, -\frac{300}{2069}, \frac{105}{2069}, \frac{285}{2069}, -\frac{120}{2069}, -\frac{195}{2069}, \frac{135}{2069})$ $+\frac{30}{2069}\sqrt{479}e^3 \otimes e_8 + \frac{30}{2069}\sqrt{479}e^5 \otimes e_7$	{1345, 1478}
941:126	$0, 0, 0, 0, 0, \frac{6}{5261}\sqrt{795}e^{12}, \frac{3}{5261}\sqrt{6114}e^{13}, \frac{3}{5261}\sqrt{2902}e^{45},$ $\frac{105}{5261}\sqrt{2}e^{16} + \frac{3}{5261}\sqrt{4006}e^{24} + \frac{3}{5261}\sqrt{2190}e^{35}$	$(\frac{48}{5261}, -\frac{123}{5261}, \frac{39}{5261}, \frac{96}{5261}, -\frac{66}{5261}, -\frac{75}{5261}, \frac{87}{5261}, \frac{30}{5261}, -\frac{27}{5261})$ $+\frac{3}{5261}\sqrt{3422}e^3 \otimes e_8 + \frac{6}{5261}\sqrt{1630}e^4 \otimes e_7$	{1578, 367}
941:126	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{3795}e^{12}, \frac{1}{287}\sqrt{45034}e^{13}, \frac{13}{287}\sqrt{253}e^{45},$ $\frac{5}{287}\sqrt{506}e^{16} + \frac{1}{287}\sqrt{9614}e^{24} + \frac{1}{287}\sqrt{26565}e^{35}$	$(-\frac{9}{287}, \frac{74}{287}, \frac{291}{574}, -\frac{18}{287}, -\frac{179}{574}, \frac{65}{287}, \frac{39}{82}, -\frac{215}{574}, \frac{8}{41})$ $+\frac{1}{287}\sqrt{121187}e^3 \otimes e_8$	{1345, 1478, 34567, 468}
941:126	$0, 0, 0, 0, 0, \frac{36}{709}\sqrt{38}e^{12}, \frac{24}{709}\sqrt{105}e^{13}, \frac{12}{709}\sqrt{874}e^{45},$ $\frac{24}{709}\sqrt{26}e^{16} + \frac{24}{709}\sqrt{30}e^{24} + \frac{12}{709}\sqrt{94}e^{35}$	$(-\frac{84}{709}, \frac{276}{709}, -\frac{48}{709}, -\frac{168}{709}, \frac{156}{709}, \frac{192}{709}, -\frac{132}{709}, -\frac{12}{709}, \frac{108}{709})$ $+\frac{12}{709}\sqrt{1270}e^5 \otimes e_7 + \frac{24}{709}\sqrt{311}e^2 \otimes e_8$	{12345, 34789}
941:127	$0, 0, 0, 0, 0, \frac{99}{1241}\sqrt{10}e^{12}, \frac{33}{1241}\sqrt{311}e^{14} - \frac{99}{1241}\sqrt{69}e^{23},$ $\frac{33}{1241}\sqrt{755}e^{13} + \frac{33}{1241}\sqrt{445}e^{24}, \frac{66}{1241}\sqrt{67}e^{16} + \frac{33}{1241}\sqrt{710}e^{34}$	$(\frac{132}{1241}, \frac{132}{1241}, \frac{198}{1241}, \frac{198}{1241}, -\frac{891}{1241}, \frac{264}{1241}, \frac{330}{1241}, \frac{330}{1241}, \frac{396}{1241})$ $+\frac{66}{1241}\sqrt{533}e^3 \otimes e_5$	{12369, 12456789, 1347, 158, 12369, 12456789, 1347, 158}
941:127	$0, 0, 0, 0, 0, \frac{99}{1241}\sqrt{10}e^{12}, \frac{33}{1241}\sqrt{311}e^{14} + \frac{99}{1241}\sqrt{69}e^{23},$ $\frac{33}{1241}\sqrt{755}e^{13} + \frac{33}{1241}\sqrt{445}e^{24}, \frac{66}{1241}\sqrt{67}e^{16} + \frac{33}{1241}\sqrt{710}e^{34}$	$(\frac{132}{1241}, \frac{132}{1241}, \frac{198}{1241}, \frac{198}{1241}, -\frac{891}{1241}, \frac{264}{1241}, \frac{330}{1241}, \frac{330}{1241}, \frac{396}{1241})$ $+\frac{66}{1241}\sqrt{533}e^3 \otimes e_5$	{12369, 12456789, 1347, 158, 12369, 12456789, 1347, 158}
941:127	$0, 0, 0, 0, 0, \frac{16}{81}\sqrt{11}e^{12}, \frac{4}{81}\sqrt{130}e^{14} - \frac{4}{81}\sqrt{70}e^{23},$ $\frac{4}{81}\sqrt{130}e^{13} + \frac{4}{81}\sqrt{70}e^{24}, \frac{8}{81}\sqrt{37}e^{16} + \frac{8}{81}\sqrt{14}e^{34}$	$(\frac{8}{81}, \frac{8}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{56}{81}, \frac{16}{81}, \frac{20}{81}, \frac{20}{81}, \frac{8}{27})$ $+\frac{8}{81}\sqrt{137}e^1 \otimes e_5$	{23456789, 2569, 358, 23456789, 2569, 358}
941:127	$0, 0, 0, 0, 0, \frac{16}{81}\sqrt{11}e^{12}, \frac{4}{81}\sqrt{130}e^{14} + \frac{4}{81}\sqrt{70}e^{23},$ $\frac{4}{81}\sqrt{130}e^{13} + \frac{4}{81}\sqrt{70}e^{24}, \frac{8}{81}\sqrt{37}e^{16} + \frac{8}{81}\sqrt{14}e^{34}$	$(\frac{8}{81}, \frac{8}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{56}{81}, \frac{16}{81}, \frac{20}{81}, \frac{20}{81}, \frac{8}{27})$ $+\frac{8}{81}\sqrt{137}e^1 \otimes e_5$	{23456789, 2569, 358, 23456789, 2569, 358}
941:127	$0, 0, 0, 0, 0, \frac{16}{81}\sqrt{11}e^{12}, \frac{16}{27}e^{14} - \frac{8}{81}\sqrt{51}e^{23},$ $\frac{16}{27}e^{13} + \frac{8}{81}\sqrt{51}e^{24}, \frac{8}{81}\sqrt{37}e^{16} + \frac{8}{81}\sqrt{14}e^{34}$	$(\frac{8}{81}, \frac{8}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{56}{81}, \frac{16}{81}, \frac{20}{81}, \frac{20}{81}, \frac{8}{27})$ $+\frac{8}{81}\sqrt{137}e^2 \otimes e_5$	{23469, 26789, 357, 23469, 26789, 357}
941:127	$0, 0, 0, 0, 0, \frac{16}{81}\sqrt{11}e^{12}, \frac{16}{27}e^{14} + \frac{8}{81}\sqrt{51}e^{23},$ $\frac{16}{27}e^{13} + \frac{8}{81}\sqrt{51}e^{24}, \frac{8}{81}\sqrt{37}e^{16} + \frac{8}{81}\sqrt{14}e^{34}$	$(\frac{8}{81}, \frac{8}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{56}{81}, \frac{16}{81}, \frac{20}{81}, \frac{20}{81}, \frac{8}{27})$ $+\frac{8}{81}\sqrt{137}e^2 \otimes e_5$	{23469, 26789, 357, 23469, 26789, 357}
941:128	$0, 0, 0, 0, 0, \frac{104}{2271}\sqrt{51}e^{12}, \frac{52}{2271}\sqrt{394}e^{14} + \frac{52}{2271}\sqrt{1117}e^{23},$ $\frac{104}{2271}\sqrt{146}e^{13} + \frac{52}{2271}\sqrt{1049}e^{45}, \frac{52}{2271}\sqrt{397}e^{16} + \frac{364}{2271}\sqrt{14}e^{34}$	$(\frac{104}{757}, -\frac{598}{2271}, \frac{156}{757}, -\frac{442}{2271}, \frac{1222}{2271}, -\frac{286}{2271}, -\frac{130}{2271}, \frac{260}{757}, \frac{26}{2271})$ $+\frac{104}{2271}\sqrt{489}e^5 \otimes e_7$	{2478, 5689}
941:128	$0, 0, 0, 0, 0, \frac{88}{2379}\sqrt{183}e^{12}, \frac{88}{2379}\sqrt{230}e^{14} + \frac{44}{2379}\sqrt{1009}e^{23},$ $\frac{44}{2379}\sqrt{94}e^{13} + \frac{44}{2379}\sqrt{1253}e^{45}, \frac{44}{2379}\sqrt{577}e^{16} + \frac{44}{2379}\sqrt{554}e^{34}$	$(-\frac{44}{793}, \frac{638}{2379}, -\frac{66}{793}, \frac{44}{183}, -\frac{902}{2379}, \frac{506}{2379}, \frac{440}{2379}, -\frac{110}{793}, \frac{374}{2379})$ $+\frac{88}{183}\sqrt{3}e^2 \otimes e_8$	{2679, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:128	$0, 0, 0, 0, 0, \frac{120}{677}\sqrt{2}e^{12}, \frac{20}{677}\sqrt{930}e^{14} + \frac{20}{677}\sqrt{519}e^{23},$ $\frac{40}{677}\sqrt{6}e^{13} + \frac{20}{677}\sqrt{543}e^{45}, \frac{20}{677}\sqrt{543}e^{16} + \frac{20}{677}\sqrt{894}e^{34}$	$(-\frac{40}{677}, \frac{270}{677}, -\frac{60}{677}, \frac{250}{677}, -\frac{350}{677}, \frac{230}{677}, \frac{210}{677}, -\frac{100}{677}, \frac{190}{677})$ $+ \frac{40}{677}\sqrt{453}e^4 \otimes e_5$	{1235679, 134}
941:129	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{119}e^{12}, \frac{1}{21}\sqrt{85}e^{14} + \frac{2}{21}\sqrt{17}e^{23},$ $\frac{1}{21}\sqrt{85}e^{13} + \frac{1}{21}\sqrt{238}e^{45}, \frac{2}{21}\sqrt{51}e^{26} + \frac{1}{21}\sqrt{170}e^{34}$	$(\frac{5}{21}, -\frac{4}{21}, \frac{1}{7}, -\frac{2}{7}, \frac{2}{3}, \frac{1}{21}, -\frac{1}{21}, \frac{8}{21}, -\frac{1}{7})$ $+ \frac{1}{21}\sqrt{595}e^5 \otimes e_9$	{345, 578}
941:129	$0, 0, 0, 0, 0, \frac{73}{5277}\sqrt{158}e^{12}, \frac{1460}{5277}e^{14} + \frac{73}{5277}\sqrt{1630}e^{23},$ $\frac{73}{5277}\sqrt{910}e^{13} + \frac{73}{5277}\sqrt{1646}e^{45}, \frac{1759}{5277}\sqrt{206}e^{26} + \frac{73}{5277}\sqrt{3782}e^{34}$	$(-\frac{219}{1759}, \frac{1606}{5277}, \frac{146}{5277}, \frac{803}{1759}, -\frac{2920}{5277}, \frac{949}{5277}, \frac{584}{1759}, -\frac{511}{5277}, \frac{2555}{5277})$ $+ \frac{146}{5277}\sqrt{2255}e^4 \otimes e_5$	{1567, 359}
941:129	$0, 0, 0, 0, 0, \frac{59}{5333}\sqrt{1286}e^{12}, \frac{59}{5333}\sqrt{2530}e^{14} + \frac{59}{5333}\sqrt{4814}e^{23},$ $\frac{118}{5333}\sqrt{530}e^{13} + \frac{59}{5333}\sqrt{4294}e^{45}, \frac{59}{5333}\sqrt{274}e^{26} + \frac{59}{5333}\sqrt{2626}e^{34}$	$(\frac{1121}{5333}, -\frac{944}{5333}, \frac{649}{5333}, -\frac{1416}{5333}, \frac{3186}{5333}, \frac{177}{5333}, -\frac{295}{5333}, \frac{1770}{5333}, -\frac{767}{5333})$ $+ \frac{590}{5333}\sqrt{93}e^5 \otimes e_7$	{12679, 2478}
941:129	$0, 0, 0, 0, 0, \frac{37}{5717}\sqrt{3106}e^{12}, \frac{74}{5717}\sqrt{695}e^{14} + \frac{37}{5717}\sqrt{2726}e^{23},$ $\frac{37}{5717}\sqrt{2170}e^{13} + \frac{37}{5717}\sqrt{5086}e^{45}, \frac{37}{5717}\sqrt{3974}e^{26} + \frac{37}{5717}\sqrt{3214}e^{34}$	$(-\frac{481}{5717}, \frac{814}{5717}, -\frac{74}{5717}, \frac{1221}{5717}, -\frac{1776}{5717}, \frac{333}{5717}, \frac{740}{5717}, -\frac{555}{5717}, \frac{1147}{5717})$ $+ \frac{1110}{5717}\sqrt{11}e^2 \otimes e_8$	{15689, 3578}
941:130	$0, 0, 0, 0, 0, \frac{144}{605}\sqrt{2}e^{12}, \frac{32}{605}\sqrt{114}e^{14} + \frac{16}{605}\sqrt{93}e^{23},$ $\frac{32}{605}\sqrt{141}e^{13} + \frac{16}{605}\sqrt{471}e^{45}, \frac{16}{605}\sqrt{471}e^{16} + \frac{16}{605}\sqrt{510}e^{35}$	$(-\frac{16}{121}, \frac{72}{605}, \frac{144}{605}, \frac{296}{605}, -\frac{232}{605}, -\frac{8}{605}, \frac{216}{605}, \frac{64}{605}, -\frac{8}{55})$ $+ \frac{48}{605}\sqrt{170}e^4 \otimes e_9$	{25689, 478}
941:130	$0, 0, 0, 0, 0, \frac{6}{583}\sqrt{67}e^{12}, \frac{2}{583}\sqrt{1245}e^{14} + \frac{30}{583}\sqrt{5}e^{23},$ $\frac{4}{583}\sqrt{15}e^{13} + \frac{2}{583}\sqrt{1326}e^{45}, \frac{4}{583}\sqrt{201}e^{16} + \frac{12}{583}\sqrt{29}e^{35}$	$(-\frac{13}{583}, \frac{7}{583}, \frac{14}{583}, \frac{34}{583}, -\frac{3}{53}, -\frac{6}{583}, \frac{21}{583}, \frac{1}{583}, -\frac{19}{583})$ $+ \frac{6}{583}\sqrt{174}e^2 \otimes e_8$	{1568, 2679}
941:131	$0, 0, 0, 0, 0, \frac{14}{619}\sqrt{690}e^{12}, \frac{28}{619}\sqrt{194}e^{13} + \frac{14}{619}\sqrt{610}e^{24},$ $\frac{28}{619}\sqrt{143}e^{15} + \frac{28}{619}\sqrt{183}e^{34}, \frac{56}{619}\sqrt{15}e^{16} + \frac{42}{619}\sqrt{14}e^{35}$	$(-\frac{84}{619}, \frac{294}{619}, \frac{140}{619}, -\frac{238}{619}, -\frac{14}{619}, \frac{210}{619}, \frac{56}{619}, -\frac{98}{619}, \frac{126}{619})$ $+ \frac{14}{619}\sqrt{2086}e^2 \otimes e_8$	{2679, 4578}
941:131	$0, 0, 0, 0, 0, \frac{42}{4157}\sqrt{115}e^{12}, \frac{28}{4157}\sqrt{165}e^{13} + \frac{56}{4157}\sqrt{78}e^{24},$ $\frac{28}{4157}\sqrt{321}e^{15} + \frac{28}{4157}\sqrt{5162}e^{34}, \frac{56}{4157}\sqrt{3498}e^{16} + \frac{7}{4157}\sqrt{3066}e^{35}$	$(\frac{105}{4157}, -\frac{252}{4157}, -\frac{98}{4157}, \frac{259}{4157}, \frac{56}{4157}, -\frac{147}{4157}, \frac{7}{4157}, \frac{161}{4157}, -\frac{42}{4157})$ $+ \frac{7}{4157}\sqrt{7966}e^5 \otimes e_7$	{135, 2379}
941:131	$0, 0, 0, 0, 0, \frac{7}{411}\sqrt{381}e^{12}, \frac{7}{411}\sqrt{939}e^{13} + \frac{28}{411}\sqrt{5}e^{24},$ $\frac{7}{411}\sqrt{579}e^{15} + \frac{28}{137}\sqrt{6}e^{34}, \frac{28}{411}\sqrt{69}e^{16} + \frac{28}{411}\sqrt{42}e^{35}$	$(\frac{21}{137}, -\frac{42}{137}, -\frac{14}{137}, \frac{49}{137}, \frac{14}{137}, -\frac{21}{137}, \frac{7}{137}, \frac{35}{137}, 0)$ $+ \frac{7}{411}\sqrt{2121}e^4 \otimes e_9$	{25679, 478}
941:132	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{105}e^{12}, \frac{1}{103}\sqrt{3710}e^{14} + \frac{2}{103}\sqrt{805}e^{23},$ $\frac{2}{103}\sqrt{665}e^{15} + \frac{1}{103}\sqrt{2730}e^{34}, \frac{4}{103}\sqrt{105}e^{16} + \frac{2}{103}\sqrt{14}e^{35}$	$(-\frac{21}{103}, \frac{33}{103}, -\frac{28}{103}, \frac{26}{103}, \frac{19}{103}, \frac{12}{103}, \frac{5}{103}, -\frac{2}{103}, -\frac{9}{103})$ $+ \frac{7}{103}\sqrt{130}e^2 \otimes e_8$	{2679, 458}
941:132	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{105}e^{12}, \frac{2}{103}\sqrt{665}e^{14} + \frac{15}{103}\sqrt{14}e^{23},$ $\frac{1}{103}\sqrt{3710}e^{15} + \frac{1}{103}\sqrt{2730}e^{34}, \frac{4}{103}\sqrt{105}e^{16} + \frac{2}{103}\sqrt{805}e^{35}$	$(-\frac{21}{103}, \frac{33}{103}, -\frac{28}{103}, \frac{26}{103}, \frac{19}{103}, \frac{12}{103}, \frac{5}{103}, -\frac{2}{103}, -\frac{9}{103})$ $+ \frac{7}{103}\sqrt{130}e^4 \otimes e_9$	{2569, 478}
941:133	$0, 0, 0, 0, 0, \frac{14}{661}\sqrt{114}e^{12}, \frac{140}{661}\sqrt{7}e^{14} + \frac{28}{661}\sqrt{211}e^{23},$ $\frac{56}{661}\sqrt{53}e^{13} + \frac{14}{661}\sqrt{662}e^{45}, \frac{168}{661}\sqrt{3}e^{26} + \frac{14}{661}\sqrt{806}e^{35}$	$(\frac{154}{661}, \frac{14}{661}, -\frac{112}{661}, -\frac{252}{661}, \frac{294}{661}, \frac{168}{661}, -\frac{98}{661}, \frac{42}{661}, \frac{182}{661})$ $+ \frac{14}{661}\sqrt{2290}e^5 \otimes e_7$	{1459, 2478}
941:133	$0, 0, 0, 0, 0, \frac{106}{5517}\sqrt{161}e^{12}, \frac{106}{5517}\sqrt{1135}e^{14} + \frac{53}{5517}\sqrt{2878}e^{23},$ $\frac{53}{5517}\sqrt{1970}e^{13} + \frac{53}{5517}\sqrt{1618}e^{45}, \frac{53}{5517}\sqrt{3434}e^{26} + \frac{53}{5517}\sqrt{10}e^{35}$	$(-\frac{265}{1839}, \frac{212}{5517}, \frac{159}{613}, \frac{2438}{5517}, -\frac{1802}{5517}, -\frac{583}{5517}, \frac{1643}{5517}, \frac{212}{1839}, -\frac{371}{5517})$ $+ \frac{53}{5517}\sqrt{9410}e^4 \otimes e_9$	{234567, 478}
941:134	$0, 0, 0, 0, 0, \frac{30}{577}\sqrt{78}e^{12}, \frac{40}{577}\sqrt{29}e^{13} + \frac{10}{577}\sqrt{94}e^{24},$ $\frac{20}{577}\sqrt{143}e^{15} + \frac{20}{577}\sqrt{219}e^{34}, \frac{40}{577}\sqrt{57}e^{26} + \frac{30}{577}\sqrt{58}e^{35}$	$(-\frac{120}{577}, \frac{150}{577}, \frac{110}{577}, -\frac{160}{577}, \frac{70}{577}, \frac{30}{577}, -\frac{10}{577}, -\frac{50}{577}, \frac{180}{577})$ $+ \frac{10}{577}\sqrt{1978}e^2 \otimes e_8$	{2346, 4578}
941:134	$0, 0, 0, 0, 0, \frac{29}{1145}\sqrt{155}e^{12}, \frac{29}{1145}\sqrt{467}e^{13} + \frac{116}{1145}\sqrt{35}e^{24},$ $\frac{29}{1145}\sqrt{187}e^{15} + \frac{29}{1145}\sqrt{570}e^{34}, \frac{116}{1145}\sqrt{22}e^{26} + \frac{29}{1145}\sqrt{674}e^{35}$	$(\frac{87}{229}, -\frac{348}{1145}, -\frac{203}{1145}, \frac{116}{229}, -\frac{58}{1145}, \frac{87}{1145}, \frac{232}{1145}, \frac{377}{1145}, -\frac{261}{1145})$ $+ \frac{29}{1145}\sqrt{1919}e^4 \otimes e_9$	{23456, 478}
941:135	$0, 0, 0, 0, 0, \frac{114}{4469}\sqrt{59}e^{12}, \frac{38}{4469}\sqrt{1097}e^{14} + \frac{19}{4469}\sqrt{5502}e^{23},$ $\frac{19}{4469}\sqrt{4334}e^{15} + \frac{19}{4469}\sqrt{3486}e^{34}, \frac{76}{4469}\sqrt{219}e^{26} + \frac{19}{4469}\sqrt{982}e^{35}$	$(-\frac{627}{4469}, \frac{399}{4469}, -\frac{494}{4469}, \frac{532}{4469}, \frac{665}{4469}, -\frac{228}{4469}, -\frac{95}{4469}, \frac{38}{4469}, \frac{171}{4469})$ $+ \frac{19}{4469}\sqrt{8014}e^4 \otimes e_9$	{234567, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:135	$0, 0, 0, 0, 0, \frac{111}{4133} \sqrt{358}e^{12} + \frac{37}{4133} \sqrt{2526}e^{14} + \frac{296}{4133} \sqrt{66}e^{23},$ $\frac{2220}{4133} e^{15} + \frac{37}{4133} \sqrt{3914}e^{34} + \frac{444}{4133} \sqrt{13}e^{26} + \frac{74}{4133} \sqrt{519}e^{35}$	$(-\frac{1110}{4133}, \frac{777}{4133}, -\frac{851}{4133}, \frac{1036}{4133}, \frac{1295}{4133}, -\frac{333}{4133}, -\frac{74}{4133}, \frac{185}{4133}, \frac{444}{4133})$ $+ \frac{37}{4133} \sqrt{7582}e^5 \otimes e_7$	{1459, 247}
941:135	$0, 0, 0, 0, 0, \frac{114}{4469} \sqrt{59}e^{12}, \frac{133}{4469} \sqrt{74}e^{14} + \frac{76}{4469} \sqrt{157}e^{23},$ $\frac{76}{4469} \sqrt{230}e^{15} + \frac{19}{4469} \sqrt{3486}e^{34} + \frac{76}{4469} \sqrt{219}e^{26} + \frac{57}{4469} \sqrt{454}e^{35}$	$(-\frac{627}{4469}, \frac{399}{4469}, -\frac{494}{4469}, \frac{532}{4469}, \frac{665}{4469}, -\frac{228}{4469}, -\frac{95}{4469}, \frac{38}{4469}, \frac{171}{4469})$ $+ \frac{19}{4469} \sqrt{8014}e^2 \otimes e_8$	{2346, 458}
941:136	$0, 0, 0, 0, 0, \frac{2}{161} \sqrt{285}e^{12}, \frac{2}{161} \sqrt{21}e^{34}, -\frac{1}{161} \sqrt{789}e^{13} + \frac{3}{161} \sqrt{151}e^{45},$ $\frac{1}{161} \sqrt{1311}e^{14} + \frac{5}{161} \sqrt{66}e^{26} + \frac{1}{161} \sqrt{741}e^{35}$	$(-\frac{15}{161}, \frac{6}{161}, \frac{12}{161}, \frac{12}{161}, -\frac{15}{161}, -\frac{9}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+ \frac{5}{161} \sqrt{102}e^2 \otimes e_8$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}
941:136	$0, 0, 0, 0, 0, \frac{2}{161} \sqrt{285}e^{12}, \frac{2}{161} \sqrt{21}e^{34}, \frac{1}{161} \sqrt{789}e^{13} + \frac{3}{161} \sqrt{151}e^{45},$ $\frac{1}{161} \sqrt{1311}e^{14} + \frac{5}{161} \sqrt{66}e^{26} + \frac{1}{161} \sqrt{741}e^{35}$	$(-\frac{15}{161}, \frac{6}{161}, \frac{12}{161}, \frac{12}{161}, -\frac{15}{161}, -\frac{9}{161}, \frac{24}{161}, -\frac{3}{161}, -\frac{3}{161})$ $+ \frac{5}{161} \sqrt{102}e^2 \otimes e_8$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}
941:136	$0, 0, 0, 0, 0, \frac{51}{361} \sqrt{17}e^{12}, \frac{102}{361} \sqrt{6}e^{34}, -\frac{51}{722} \sqrt{62}e^{13} + \frac{17}{722} \sqrt{346}e^{45},$ $\frac{17}{722} \sqrt{494}e^{14} + \frac{68}{361} \sqrt{2}e^{26} + \frac{17}{722} \sqrt{410}e^{35}$	$(\frac{153}{361}, -\frac{34}{361}, -\frac{68}{361}, -\frac{68}{361}, \frac{153}{361}, \frac{119}{361}, -\frac{136}{361}, \frac{85}{361}, \frac{85}{361})$ $+ \frac{187}{361} \sqrt{5}e^1 \otimes e_7$	{1289, 1689, 23678, 378, 1289, 1689, 23678, 378}
941:136	$0, 0, 0, 0, 0, \frac{51}{361} \sqrt{17}e^{12}, \frac{102}{361} \sqrt{6}e^{34}, \frac{51}{722} \sqrt{62}e^{13} + \frac{17}{722} \sqrt{346}e^{45},$ $\frac{17}{722} \sqrt{494}e^{14} + \frac{68}{361} \sqrt{2}e^{26} + \frac{17}{722} \sqrt{410}e^{35}$	$(\frac{153}{361}, -\frac{34}{361}, -\frac{68}{361}, -\frac{68}{361}, \frac{153}{361}, \frac{119}{361}, -\frac{136}{361}, \frac{85}{361}, \frac{85}{361})$ $+ \frac{187}{361} \sqrt{5}e^1 \otimes e_7$	{1289, 1689, 23678, 378, 1289, 1689, 23678, 378}
941:136	$0, 0, 0, 0, 0, \frac{51}{361} \sqrt{17}e^{12}, \frac{102}{361} \sqrt{6}e^{34}, -\frac{17}{361} \sqrt{163}e^{13} + \frac{102}{361} \sqrt{6}e^{45},$ $\frac{17}{361} \sqrt{179}e^{14} + \frac{68}{361} \sqrt{2}e^{26} + \frac{170}{361} \sqrt{2}e^{35}$	$(\frac{153}{361}, -\frac{34}{361}, -\frac{68}{361}, -\frac{68}{361}, \frac{153}{361}, \frac{119}{361}, -\frac{136}{361}, \frac{85}{361}, \frac{85}{361})$ $+ \frac{187}{361} \sqrt{5}e^5 \otimes e_7$	{23456, 24678, 345, 478, 23456, 24678, 345, 478}
941:136	$0, 0, 0, 0, 0, \frac{51}{361} \sqrt{17}e^{12}, \frac{102}{361} \sqrt{6}e^{34}, \frac{17}{361} \sqrt{163}e^{13} + \frac{102}{361} \sqrt{6}e^{45},$ $\frac{17}{361} \sqrt{179}e^{14} + \frac{68}{361} \sqrt{2}e^{26} + \frac{170}{361} \sqrt{2}e^{35}$	$(\frac{153}{361}, -\frac{34}{361}, -\frac{68}{361}, -\frac{68}{361}, \frac{153}{361}, \frac{119}{361}, -\frac{136}{361}, \frac{85}{361}, \frac{85}{361})$ $+ \frac{187}{361} \sqrt{5}e^5 \otimes e_7$	{23456, 24678, 345, 478, 23456, 24678, 345, 478}
941:137	$0, 0, 0, 0, 0, \frac{5}{247} \sqrt{822}e^{12}, \frac{20}{247} \sqrt{51}e^{34}, \frac{45}{247} \sqrt{14}e^{13} + \frac{20}{247} \sqrt{51}e^{45},$ $\frac{10}{247} \sqrt{165}e^{16} + \frac{45}{247} \sqrt{14}e^{24} + \frac{45}{247} \sqrt{6}e^{35}$	$(-\frac{25}{247}, \frac{85}{247}, \frac{5}{247}, -\frac{50}{247}, \frac{30}{247}, \frac{60}{247}, \frac{45}{247}, -\frac{20}{247}, \frac{35}{247})$ $+ \frac{10}{247} \sqrt{321}e^5 \otimes e_7$	{345, 478}
941:137	$0, 0, 0, 0, 0, \frac{49}{3001} \sqrt{1614}e^{13} + \frac{49}{3001} \sqrt{114}e^{45}, \frac{49}{3001} \sqrt{2522}e^{12}, \frac{147}{3001} \sqrt{290}e^{34},$ $\frac{98}{3001} \sqrt{246}e^{16} + \frac{245}{3001} \sqrt{2}e^{24} + \frac{147}{3001} \sqrt{42}e^{35}$	$(-\frac{441}{3001}, \frac{1715}{3001}, \frac{196}{3001}, -\frac{882}{3001}, \frac{637}{3001}, \frac{1274}{3001}, -\frac{686}{3001}, -\frac{245}{3001}, \frac{833}{3001})$ $+ \frac{392}{3001} \sqrt{78}e^2 \otimes e_7$	{129, 37}
941:137	$0, 0, 0, 0, 0, \frac{13}{301} \sqrt{30}e^{12}, \frac{26}{301} e^{34}, \frac{13}{301} \sqrt{346}e^{13} + \frac{78}{301} \sqrt{2}e^{45},$ $\frac{26}{301} \sqrt{43}e^{16} + \frac{13}{301} \sqrt{346}e^{24} + \frac{13}{301} \sqrt{110}e^{35}$	$(-\frac{39}{301}, \frac{143}{301}, \frac{13}{301}, -\frac{78}{301}, \frac{52}{301}, \frac{104}{301}, -\frac{65}{301}, -\frac{26}{301}, \frac{65}{301})$ $+ \frac{26}{301} \sqrt{134}e^2 \otimes e_8$	{1578, 279}
941:137	$0, 0, 0, 0, 0, \frac{1}{275} \sqrt{4202}e^{12}, \frac{1}{275} \sqrt{4026}e^{34}, \frac{1}{275} \sqrt{2398}e^{13} + \frac{3}{275} \sqrt{154}e^{45},$ $\frac{2}{275} \sqrt{1122}e^{16} + \frac{3}{275} \sqrt{462}e^{24} + \frac{1}{275} \sqrt{858}e^{35}$	$(-\frac{1}{25}, \frac{3}{25}, 0, -\frac{2}{25}, \frac{1}{25}, \frac{2}{25}, -\frac{2}{25}, -\frac{1}{25}, \frac{1}{25})$ $+ \frac{4}{275} \sqrt{330}e^1 \otimes e_7$	{13468, 246789}
941:138	$0, 0, 0, 0, 0, \frac{128}{749} \sqrt{3}e^{12}, \frac{16}{749} \sqrt{366}e^{15} - \frac{144}{749} \sqrt{10}e^{34},$ $\frac{16}{749} \sqrt{906}e^{14} + \frac{16}{749} \sqrt{462}e^{35}, \frac{32}{749} \sqrt{122}e^{13} + \frac{32}{749} \sqrt{209}e^{26}$	$(-\frac{96}{749}, -\frac{48}{749}, -\frac{96}{749}, \frac{320}{749}, \frac{320}{749}, -\frac{144}{749}, \frac{32}{107}, \frac{32}{107}, -\frac{192}{749})$ $+ \frac{64}{749} \sqrt{159}e^4 \otimes e_9$	{12346, 134, 2379, 3679, 12346, 134, 2379, 3679}
941:138	$0, 0, 0, 0, 0, \frac{128}{749} \sqrt{3}e^{12}, \frac{16}{749} \sqrt{366}e^{15} + \frac{144}{749} \sqrt{10}e^{34},$ $\frac{16}{749} \sqrt{906}e^{14} + \frac{16}{749} \sqrt{462}e^{35}, \frac{32}{749} \sqrt{122}e^{13} + \frac{32}{749} \sqrt{209}e^{26}$	$(-\frac{96}{749}, -\frac{48}{749}, -\frac{96}{749}, \frac{320}{749}, \frac{320}{749}, -\frac{144}{749}, \frac{32}{107}, \frac{32}{107}, -\frac{192}{749})$ $+ \frac{64}{749} \sqrt{159}e^4 \otimes e_9$	{12346, 134, 2379, 3679, 12346, 134, 2379, 3679}
941:139	$0, 0, 0, 0, 0, \frac{40}{281} \sqrt{6}e^{12}, \frac{5}{281} \sqrt{789}e^{14} + \frac{15}{281} \sqrt{67}e^{35},$ $-\frac{5}{281} \sqrt{471}e^{13} + \frac{15}{281} \sqrt{73}e^{45}, \frac{10}{281} \sqrt{30}e^{16} + \frac{60}{281} \sqrt{7}e^{23}$	$(\frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, \frac{20}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{30}{281} \sqrt{42}e^4 \otimes e_9$	{123468, 135789, 23457, 369, 123468, 135789, 23457, 369}
941:139	$0, 0, 0, 0, 0, \frac{40}{281} \sqrt{6}e^{12}, \frac{5}{281} \sqrt{789}e^{14} + \frac{15}{281} \sqrt{67}e^{35},$ $\frac{5}{281} \sqrt{471}e^{13} + \frac{15}{281} \sqrt{73}e^{45}, \frac{10}{281} \sqrt{30}e^{16} + \frac{60}{281} \sqrt{7}e^{23}$	$(\frac{20}{281}, -\frac{75}{281}, \frac{40}{281}, \frac{40}{281}, \frac{20}{281}, -\frac{55}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{30}{281} \sqrt{42}e^4 \otimes e_9$	{123468, 135789, 23457, 369, 123468, 135789, 23457, 369}
941:139	$0, 0, 0, 0, 0, \frac{2}{37} \sqrt{102}e^{12}, \frac{2}{37} \sqrt{57}e^{14} + \frac{18}{37} e^{35},$ $-\frac{2}{37} \sqrt{69}e^{13} + \frac{6}{37} \sqrt{19}e^{45}, \frac{6}{37} \sqrt{6}e^{16} + \frac{6}{37} \sqrt{14}e^{23}$	$(-\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, -\frac{2}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37} \sqrt{42}e^2 \otimes e_8$	{123, 123457, 3489, 35789, 123, 123457, 3489, 35789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:139	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{102}e^{12}, \frac{2}{37}\sqrt{57}e^{14} + \frac{18}{37}e^{35},$ $\frac{2}{37}\sqrt{69}e^{13} + \frac{6}{37}\sqrt{19}e^{45}, \frac{4}{37}\sqrt{6}e^{16} + \frac{6}{37}\sqrt{14}e^{23}$	$(-\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, -\frac{2}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^2 \otimes e_8$	{123, 123457, 3489, 35789, 123, 123457, 3489, 35789}
941:139	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{102}e^{12}, \frac{4}{37}\sqrt{33}e^{14} + \frac{12}{37}\sqrt{3}e^{35},$ $-\frac{4}{37}\sqrt{30}e^{13} + \frac{6}{37}\sqrt{2}e^{45}, \frac{4}{37}\sqrt{6}e^{16} + \frac{6}{37}\sqrt{14}e^{23}$	$(-\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, -\frac{2}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^2 \otimes e_7$	{123458, 136789, 2356, 3479, 123458, 136789, 2356, 3479}
941:139	$0, 0, 0, 0, 0, \frac{2}{37}\sqrt{102}e^{12}, \frac{4}{37}\sqrt{33}e^{14} + \frac{12}{37}\sqrt{3}e^{35},$ $\frac{4}{37}\sqrt{30}e^{13} + \frac{6}{37}\sqrt{2}e^{45}, \frac{4}{37}\sqrt{6}e^{16} + \frac{6}{37}\sqrt{14}e^{23}$	$(-\frac{2}{37}, \frac{18}{37}, -\frac{4}{37}, -\frac{4}{37}, -\frac{2}{37}, \frac{16}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{14}{37})$ $+ \frac{6}{37}\sqrt{42}e^2 \otimes e_7$	{123458, 136789, 2356, 3479, 123458, 136789, 2356, 3479}
941:140	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{42}e^{12}, \frac{1}{13}\sqrt{105}e^{15} - \frac{3}{13}\sqrt{7}e^{34},$ $\frac{3}{13}\sqrt{21}e^{14} + \frac{7}{13}\sqrt{3}e^{35}, \frac{4}{13}\sqrt{7}e^{16} + \frac{4}{13}\sqrt{14}e^{23}$	$(0, -\frac{3}{13}, 0, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13})$ $+ \frac{2}{13}\sqrt{42}e^4 \otimes e_9$	{126789, 145, 2579, 468, 126789, 145, 2579, 468}
941:140	$0, 0, 0, 0, 0, \frac{2}{13}\sqrt{42}e^{12}, \frac{1}{13}\sqrt{105}e^{15} + \frac{3}{13}\sqrt{7}e^{34},$ $\frac{3}{13}\sqrt{21}e^{14} + \frac{7}{13}\sqrt{3}e^{35}, \frac{4}{13}\sqrt{7}e^{16} + \frac{4}{13}\sqrt{14}e^{23}$	$(0, -\frac{3}{13}, 0, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{4}{13}, \frac{4}{13}, -\frac{3}{13})$ $+ \frac{2}{13}\sqrt{42}e^4 \otimes e_9$	{126789, 145, 2579, 468, 126789, 145, 2579, 468}
941:140	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{7}e^{12}, \frac{3}{13}\sqrt{21}e^{15} - \frac{3}{13}\sqrt{7}e^{34},$ $\frac{1}{13}\sqrt{105}e^{14} + \frac{7}{13}\sqrt{3}e^{35}, \frac{2}{13}\sqrt{42}e^{16} + \frac{4}{13}\sqrt{14}e^{23}$	$(0, \frac{5}{13}, 0, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13})$ $+ \frac{2}{13}\sqrt{42}e^2 \otimes e_7$	{124569, 178, 2489, 567, 124569, 178, 2489, 567}
941:140	$0, 0, 0, 0, 0, \frac{4}{13}\sqrt{7}e^{12}, \frac{3}{13}\sqrt{21}e^{15} + \frac{3}{13}\sqrt{7}e^{34},$ $\frac{1}{13}\sqrt{105}e^{14} + \frac{7}{13}\sqrt{3}e^{35}, \frac{2}{13}\sqrt{42}e^{16} + \frac{4}{13}\sqrt{14}e^{23}$	$(0, \frac{5}{13}, 0, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13}, -\frac{2}{13}, -\frac{2}{13}, \frac{5}{13})$ $+ \frac{2}{13}\sqrt{42}e^2 \otimes e_7$	{124569, 178, 2489, 567, 124569, 178, 2489, 567}
941:141	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42}e^{12}, \frac{3}{263}\sqrt{22}e^{14} + \frac{263}{263}\sqrt{222}e^{35},$ $\frac{2}{263}\sqrt{30}e^{23} + \frac{9}{263}\sqrt{2}e^{45}, \frac{2}{263}\sqrt{74}e^{13} + \frac{2}{263}\sqrt{26}e^{26}$	$(-\frac{8}{263}, \frac{2}{263}, \frac{4}{263}, \frac{9}{263}, -\frac{3}{263}, -\frac{6}{263}, \frac{1}{263}, \frac{6}{263}, -\frac{4}{263})$ $+ \frac{2}{263}\sqrt{118}e^2 \otimes e_7$	{136789, 2356}
941:141	$0, 0, 0, 0, 0, \frac{2}{263}\sqrt{42}e^{12}, \frac{1}{263}\sqrt{274}e^{14} + \frac{1}{263}\sqrt{222}e^{35},$ $\frac{4}{263}\sqrt{22}e^{23} + \frac{1}{263}\sqrt{310}e^{45}, \frac{4}{263}\sqrt{11}e^{13} + \frac{3}{263}\sqrt{26}e^{26}$	$(-\frac{8}{263}, \frac{2}{263}, \frac{4}{263}, \frac{9}{263}, -\frac{3}{263}, -\frac{6}{263}, \frac{1}{263}, \frac{6}{263}, -\frac{4}{263})$ $+ \frac{2}{263}\sqrt{118}e^5 \otimes e_9$	{129, 578}
941:141	$0, 0, 0, 0, 0, \frac{94}{4295}\sqrt{82}e^{12}, \frac{47}{4295}\sqrt{1342}e^{14} + \frac{47}{4295}\sqrt{1522}e^{35},$ $\frac{94}{4295}\sqrt{494}e^{23} + \frac{141}{4295}\sqrt{398}e^{45}, \frac{188}{4295}\sqrt{177}e^{13} + \frac{47}{4295}\sqrt{2578}e^{26}$	$(-\frac{1316}{4295}, \frac{94}{859}, \frac{188}{859}, \frac{1833}{4295}, -\frac{423}{4295}, -\frac{846}{4295}, \frac{517}{4295}, \frac{282}{859}, -\frac{376}{4295})$ $+ \frac{188}{4295}\sqrt{461}e^4 \otimes e_9$	{123468, 369}
941:142	$0, 0, 0, 0, 0, \frac{123}{2389}\sqrt{10}e^{12}, \frac{123}{2389}\sqrt{134}e^{15} + \frac{41}{2389}\sqrt{570}e^{34},$ $\frac{123}{2389}\sqrt{62}e^{24} + \frac{492}{2389}\sqrt{10}e^{35}, \frac{82}{2389}\sqrt{95}e^{13} + \frac{47}{2389}\sqrt{413}e^{26}$	$(-\frac{369}{2389}, -\frac{123}{2389}, -\frac{246}{2389}, \frac{943}{2389}, \frac{1066}{2389}, -\frac{492}{2389}, \frac{697}{2389}, \frac{820}{2389}, -\frac{615}{2389})$ $+ \frac{82}{2389}\sqrt{1005}e^5 \otimes e_9$	{12356, 3689}
941:142	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{58}e^{12}, \frac{1}{17}\sqrt{78}e^{15} + \frac{1}{17}\sqrt{102}e^{34},$ $\frac{1}{17}\sqrt{146}e^{24} + \frac{2}{17}\sqrt{6}e^{35}, \frac{2}{17}\sqrt{30}e^{13} + \frac{2}{17}\sqrt{21}e^{26}$	$(\frac{3}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{4}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{2}{17}\sqrt{39}e^1 \otimes e_8$	{124569, 468}
941:142	$0, 0, 0, 0, 0, \frac{13}{2461}\sqrt{3242}e^{12}, \frac{13}{2461}\sqrt{426}e^{15} + \frac{26}{2461}\sqrt{741}e^{34},$ $\frac{13}{2461}\sqrt{1834}e^{24} + \frac{13}{2461}\sqrt{834}e^{35}, \frac{26}{2461}\sqrt{849}e^{13} + \frac{78}{2461}\sqrt{94}e^{26}$	$(\frac{195}{2461}, \frac{65}{2461}, \frac{130}{2461}, -\frac{234}{2461}, -\frac{13}{107}, \frac{260}{2461}, -\frac{104}{2461}, -\frac{169}{2461}, \frac{325}{2461})$ $+ \frac{26}{2461}\sqrt{1065}e^2 \otimes e_7$	{136789, 23468}
941:142	$0, 0, 0, 0, 0, \frac{37}{2221}\sqrt{1614}e^{12}, \frac{37}{2221}\sqrt{390}e^{15} + \frac{222}{2221}\sqrt{7}e^{34},$ $\frac{37}{2221}\sqrt{2562}e^{24} + \frac{37}{2221}\sqrt{1698}e^{35}, \frac{296}{2221}\sqrt{38}e^{13} + \frac{14}{2221}\sqrt{46}e^{26}$	$(-\frac{333}{2221}, -\frac{111}{2221}, -\frac{222}{2221}, \frac{814}{2221}, \frac{925}{2221}, -\frac{444}{2221}, \frac{592}{2221}, \frac{703}{2221}, -\frac{555}{2221})$ $+ \frac{370}{2221}\sqrt{39}e^4 \otimes e_9$	{159, 2457}
941:143	$0, 0, 0, 0, 0, \frac{1}{357}\sqrt{4454}e^{12}, \frac{4}{119}\sqrt{34}e^{13}, \frac{1}{357}\sqrt{2006}e^{23},$ $\frac{11}{357}\sqrt{34}e^{14} + \frac{1}{357}\sqrt{4726}e^{26} + \frac{2}{357}\sqrt{221}e^{35}$	$(\frac{1}{21}, 0, -\frac{2}{21}, 0, \frac{1}{7}, \frac{1}{21}, -\frac{1}{21}, -\frac{2}{21}, \frac{1}{21})$ $+ \frac{2}{357}\sqrt{1241}e^1 \otimes e_4 + \frac{2}{357}\sqrt{1581}e^2 \otimes e_7$	{2456, 347}
941:143	$0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{393}e^{13}, \frac{14}{587}\sqrt{237}e^{23},$ $\frac{14}{587}\sqrt{237}e^{14} + \frac{14}{587}\sqrt{102}e^{26} + \frac{14}{587}\sqrt{3}e^{35}$	$(\frac{133}{587}, -\frac{7}{587}, \frac{154}{587}, -\frac{14}{587}, \frac{273}{587}, \frac{126}{587}, -\frac{21}{587}, -\frac{161}{587}, \frac{119}{587})$ $+ \frac{14}{587}\sqrt{651}e^5 \otimes e_7 + \frac{14}{587}\sqrt{915}e^1 \otimes e_8$	{12345, 1467, 245689, 34789}
941:143	$0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{393}e^{13}, \frac{14}{587}\sqrt{237}e^{23},$ $\frac{14}{587}\sqrt{237}e^{14} + \frac{14}{587}\sqrt{102}e^{26} + \frac{14}{587}\sqrt{3}e^{35}$	$(\frac{133}{587}, -\frac{7}{587}, -\frac{154}{587}, -\frac{14}{587}, \frac{273}{587}, \frac{126}{587}, -\frac{21}{587}, -\frac{161}{587}, \frac{119}{587})$ $- \frac{14}{587}\sqrt{651}e^5 \otimes e_7 + \frac{14}{587}\sqrt{915}e^1 \otimes e_8$	{12345, 1467, 245689, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:143	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{30}e^{23},$ $\frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{26} + \frac{1}{10}\sqrt{6}e^{35}$	$(-\frac{1}{20}, \frac{3}{20}, -\frac{1}{4}, \frac{3}{10}, \frac{1}{2}, \frac{1}{10}, -\frac{3}{10}, -\frac{1}{10}, \frac{1}{4})$ $+\frac{3}{10}\sqrt{6}e^4 \otimes e_7 + \frac{3}{10}\sqrt{6}e^5 \otimes e_8$	{1579, 2357}
941:143	$0, 0, 0, 0, 0, \frac{3}{997}\sqrt{38110}e^{12}, \frac{1}{997}\sqrt{418470}e^{13}, \frac{1}{997}\sqrt{12210}e^{23},$ $\frac{148}{997}\sqrt{15}e^{14} + \frac{120}{997}\sqrt{37}e^{26} + \frac{4}{997}\sqrt{9435}e^{35}$	$(-\frac{248}{997}, \frac{219}{997}, -\frac{88}{997}, \frac{438}{997}, \frac{278}{997}, -\frac{29}{997}, -\frac{336}{997}, \frac{131}{997}, \frac{190}{997})$ $+\frac{15}{997}\sqrt{4218}e^2 \otimes e_7$	{1234589, 146789, 2456, 347}
941:143	$0, 0, 0, 0, 0, \frac{140}{569}e^{12}, \frac{7}{569}\sqrt{618}e^{13}, \frac{7}{569}\sqrt{418}e^{23},$ $\frac{14}{569}\sqrt{10}e^{14} + \frac{14}{569}\sqrt{110}e^{26} + \frac{14}{569}\sqrt{109}e^{35}$	$(\frac{21}{569}, \frac{21}{569}, -\frac{98}{569}, \frac{42}{569}, \frac{161}{569}, \frac{42}{569}, -\frac{77}{569}, -\frac{77}{569}, \frac{63}{569})$ $+\frac{63}{569}\sqrt{14}e^2 \otimes e_7 + \frac{63}{569}\sqrt{934}e^1 \otimes e_8$	{12359, 1679, 2568, 378}
941:143	$0, 0, 0, 0, 0, \frac{140}{569}e^{12}, \frac{7}{569}\sqrt{618}e^{13}, \frac{7}{569}\sqrt{418}e^{23},$ $\frac{14}{569}\sqrt{10}e^{14} + \frac{14}{569}\sqrt{110}e^{26} + \frac{14}{569}\sqrt{109}e^{35}$	$(\frac{21}{569}, \frac{21}{569}, -\frac{98}{569}, \frac{42}{569}, \frac{161}{569}, \frac{42}{569}, -\frac{77}{569}, -\frac{77}{569}, \frac{63}{569})$ $-\frac{63}{569}\sqrt{14}e^2 \otimes e_7 + \frac{7}{569}\sqrt{934}e^1 \otimes e_8$	{12359, 1679, 2568, 378}
941:143	$0, 0, 0, 0, 0, \frac{11}{439}\sqrt{498}e^{12}, \frac{11}{439}\sqrt{362}e^{13}, \frac{33}{439}\sqrt{94}e^{23},$ $\frac{88}{439}\sqrt{14}e^{14} + \frac{44}{439}\sqrt{33}e^{26} + \frac{44}{439}\sqrt{17}e^{35}$	$(0, \frac{33}{439}, -\frac{88}{439}, \frac{66}{439}, \frac{154}{439}, \frac{33}{439}, -\frac{88}{439}, -\frac{55}{439}, \frac{66}{439})$ $+\frac{44}{439}\sqrt{62}e^4 \otimes e_8 + \frac{55}{439}\sqrt{6}e^2 \otimes e_7$	{2578, 368}
941:143	$0, 0, 0, 0, 0, \frac{7}{1193}\sqrt{1370}e^{12}, \frac{14}{1193}\sqrt{645}e^{13}, \frac{35}{1193}\sqrt{202}e^{23},$ $\frac{7}{1193}\sqrt{3370}e^{14} + \frac{7}{1193}\sqrt{1570}e^{26} + \frac{14}{1193}\sqrt{715}e^{35}$	$(\frac{231}{1193}, -\frac{126}{1193}, \frac{112}{1193}, \frac{252}{1193}, -\frac{133}{1193}, \frac{105}{1193}, \frac{343}{1193}, -\frac{14}{1193}, -\frac{21}{1193})$ $+\frac{14}{1193}\sqrt{1510}e^1 \otimes e_8 + \frac{84}{1193}\sqrt{35}e^3 \otimes e_5$	{258, 3678}
941:143	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{70}e^{12}, \frac{2}{47}\sqrt{105}e^{13}, \frac{1}{47}\sqrt{1330}e^{23},$ $\frac{1}{47}\sqrt{1330}e^{14} + \frac{7}{47}\sqrt{10}e^{26} + \frac{10}{47}\sqrt{7}e^{35}$	$(\frac{21}{47}, -\frac{6}{47}, -\frac{8}{47}, -\frac{12}{47}, \frac{17}{47}, \frac{15}{47}, \frac{13}{47}, -\frac{14}{47}, \frac{9}{47})$ $+\frac{20}{47}\sqrt{7}e^1 \otimes e_8$	{1234, 14567, 24689, 345789}
941:143	$0, 0, 0, 0, 0, \frac{32}{113}\sqrt{3}e^{12}, \frac{32}{113}\sqrt{2}e^{13}, \frac{8}{113}\sqrt{91}e^{23},$ $\frac{8}{113}\sqrt{91}e^{14} + \frac{32}{113}\sqrt{3}e^{26} + \frac{32}{113}\sqrt{2}e^{35}$	$(-\frac{5}{113}, \frac{11}{113}, -\frac{21}{113}, \frac{22}{113}, \frac{38}{113}, \frac{6}{113}, -\frac{26}{113}, -\frac{10}{113}, \frac{17}{113})$ $+\frac{8}{113}\sqrt{107}e^4 \otimes e_8$	{12689, 135789, 2578, 368}
941:143	$0, 0, 0, 0, 0, \frac{11}{1671}\sqrt{894}e^{12}, \frac{22}{1671}\sqrt{915}e^{13}, \frac{11}{557}\sqrt{170}e^{23},$ $\frac{11}{557}\sqrt{170}e^{14} + \frac{11}{1671}\sqrt{2730}e^{26} + \frac{22}{1671}\sqrt{462}e^{35}$	$(-\frac{121}{557}, \frac{66}{557}, \frac{66}{557}, \frac{132}{557}, -\frac{55}{557}, -\frac{55}{557}, -\frac{55}{557}, \frac{132}{557}, \frac{11}{557})$ $+\frac{22}{1671}\sqrt{1374}e^2 \otimes e_7 + \frac{22}{1671}\sqrt{921}e^3 \otimes e_5$	{24568, 3478}
941:143	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{555}e^{13}, \frac{2}{119}\sqrt{705}e^{23},$ $\frac{2}{119}\sqrt{2730}e^{14} + \frac{6}{119}\sqrt{35}e^{26} + \frac{10}{119}\sqrt{57}e^{35}$	$(-\frac{157}{476}, \frac{21}{68}, -\frac{29}{476}, \frac{21}{34}, \frac{83}{238}, -\frac{5}{238}, -\frac{93}{238}, \frac{59}{238}, \frac{137}{476})$ $+\frac{90}{119}\sqrt{3}e^4 \otimes e_7$	{126789, 179, 237, 3678}
941:143	$0, 0, 0, 0, 0, \frac{253}{1101}\sqrt{2}e^{12}, \frac{46}{1101}\sqrt{201}e^{13}, \frac{23}{1101}\sqrt{22}e^{23},$ $\frac{46}{1101}\sqrt{73}e^{14} + \frac{46}{1101}\sqrt{55}e^{26} + \frac{23}{1101}\sqrt{182}e^{35}$	$(\frac{253}{1101}, -\frac{46}{367}, \frac{253}{1101}, -\frac{92}{367}, -\frac{92}{367}, \frac{115}{1101}, \frac{506}{1101}, \frac{115}{1101}, -\frac{23}{1101})$ $+\frac{23}{1101}\sqrt{942}e^3 \otimes e_5 + \frac{46}{1101}\sqrt{263}e^1 \otimes e_4$	{23467, 24568, 3478, 45}
941:143	$0, 0, 0, 0, 0, \frac{253}{1101}\sqrt{2}e^{12}, \frac{46}{1101}\sqrt{201}e^{13}, \frac{23}{1101}\sqrt{22}e^{23},$ $\frac{46}{1101}\sqrt{73}e^{14} + \frac{46}{1101}\sqrt{55}e^{26} + \frac{23}{1101}\sqrt{182}e^{35}$	$(\frac{253}{1101}, -\frac{46}{367}, \frac{253}{1101}, -\frac{92}{367}, -\frac{92}{367}, \frac{115}{1101}, \frac{506}{1101}, \frac{115}{1101}, -\frac{23}{1101})$ $-\frac{23}{1101}\sqrt{942}e^3 \otimes e_5 + \frac{46}{1101}\sqrt{263}e^1 \otimes e_4$	{23467, 24568, 3478, 45}
941:143	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{330}e^{12}, \frac{2}{43}\sqrt{105}e^{13}, \frac{1}{43}\sqrt{330}e^{23},$ $\frac{1}{43}\sqrt{330}e^{14} + \frac{3}{43}\sqrt{10}e^{26} + \frac{10}{43}\sqrt{3}e^{35}$	$(-\frac{11}{43}, \frac{6}{43}, \frac{8}{43}, \frac{12}{43}, -\frac{7}{43}, -\frac{5}{43}, -\frac{3}{43}, \frac{14}{43}, \frac{1}{43})$ $+\frac{10}{43}\sqrt{6}e^3 \otimes e_5 + \frac{10}{43}\sqrt{6}e^4 \otimes e_7$	{237, 3678}
941:143	$0, 0, 0, 0, 0, \frac{1}{162}\sqrt{19430}e^{12}, \frac{1}{54}\sqrt{2030}e^{13}, \frac{1}{81}\sqrt{14790}e^{23},$ $\frac{1}{162}\sqrt{14790}e^{14} + \frac{1}{162}\sqrt{11455}e^{26} + \frac{1}{81}\sqrt{145}e^{35}$	$(\frac{83}{162}, -\frac{31}{162}, \frac{1}{36}, -\frac{31}{81}, \frac{11}{108}, \frac{26}{81}, \frac{175}{324}, -\frac{53}{324}, \frac{7}{54})$ $+\frac{5}{162}\sqrt{1595}e^1 \otimes e_4$	{2345678, 246, 3457, 48}
941:143	$0, 0, 0, 0, 0, \frac{33}{4309}\sqrt{374}e^{12}, \frac{22}{4309}\sqrt{197}e^{13}, \frac{11}{4309}\sqrt{6006}e^{23},$ $\frac{154}{4309}\sqrt{26}e^{14} + \frac{22}{4309}\sqrt{705}e^{26} + \frac{11}{4309}\sqrt{2426}e^{35}$	$(-\frac{363}{4309}, \frac{198}{4309}, \frac{77}{4309}, \frac{396}{4309}, -\frac{44}{4309}, -\frac{165}{4309}, \frac{286}{4309}, \frac{275}{4309}, \frac{33}{4309})$ $+\frac{11}{4309}\sqrt{2730}e^3 \otimes e_5 + \frac{11}{4309}\sqrt{1418}e^4 \otimes e_8$	{2578, 368}
941:143	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{35}e^{12}, \frac{10}{119}\sqrt{57}e^{13}, \frac{2}{119}\sqrt{2730}e^{23},$ $\frac{2}{119}\sqrt{705}e^{14} + \frac{6}{119}\sqrt{170}e^{26} + \frac{4}{119}\sqrt{555}e^{35}$	$(\frac{5}{17}, \frac{3}{119}, -\frac{41}{119}, \frac{6}{119}, \frac{82}{119}, \frac{38}{119}, -\frac{6}{119}, -\frac{38}{119}, \frac{41}{119})$ $+\frac{90}{119}\sqrt{3}e^5 \otimes e_8$	{13789, 159, 235, 278}
941:143	$0, 0, 0, 0, 0, \frac{7}{1193}\sqrt{1370}e^{12}, \frac{14}{1193}\sqrt{645}e^{13}, \frac{7}{1193}\sqrt{3370}e^{23},$ $\frac{35}{1193}\sqrt{202}e^{14} + \frac{7}{1193}\sqrt{1570}e^{26} + \frac{14}{1193}\sqrt{715}e^{35}$	$(\frac{63}{1193}, \frac{42}{1193}, -\frac{224}{1193}, \frac{84}{1193}, \frac{371}{1193}, \frac{105}{1193}, -\frac{161}{1193}, -\frac{182}{1193}, \frac{147}{1193})$ $+\frac{14}{1193}\sqrt{1510}e^1 \otimes e_8 + \frac{84}{1193}\sqrt{35}e^4 \otimes e_7$	{179, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:143	$0, 0, 0, 0, 0, \frac{6}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{555}e^{13}, \frac{2}{119}\sqrt{2730}e^{23},$ $\frac{2}{119}\sqrt{705}e^{14} + \frac{6}{119}\sqrt{35}e^{26} + \frac{10}{119}\sqrt{57}e^{35}$	$(-\frac{11}{238}, \frac{3}{119}, \frac{241}{476}, \frac{6}{119}, -\frac{239}{476}, -\frac{5}{238}, \frac{219}{476}, \frac{253}{476}, \frac{1}{238})$ $+ \frac{90}{119}\sqrt{3}e^3 \otimes e_5$	{237, 258, 3678, 56}
941:144	$0, 0, 0, 0, 0, \frac{45}{1001}\sqrt{10}e^{12}, \frac{50}{1001}\sqrt{30}e^{13},$ $\frac{10}{1001}\sqrt{390}e^{14} + \frac{5}{1001}\sqrt{1670}e^{23}, \frac{15}{1001}\sqrt{10}e^{15} + \frac{25}{1001}\sqrt{110}e^{26}$	$(-\frac{145}{1001}, \frac{40}{1001}, \frac{60}{1001}, \frac{35}{1001}, \frac{80}{1001}, -\frac{15}{143}, -\frac{85}{1001}, \frac{100}{1001}, -\frac{5}{77})$ $+ \frac{10}{1001}\sqrt{1095}e^3 \otimes e_9 + \frac{10}{1001}\sqrt{1185}e^2 \otimes e_7$	{1679, 378}
941:144	$0, 0, 0, 0, 0, \frac{90}{929}\sqrt{14}e^{12}, \frac{90}{929}\sqrt{14}e^{13}, \frac{180}{929}\sqrt{2}e^{14} + \frac{18}{929}\sqrt{158}e^{23},$ $\frac{18}{929}\sqrt{258}e^{15} + \frac{18}{929}\sqrt{758}e^{26}$	$(-\frac{216}{929}, \frac{117}{929}, \frac{9}{929}, \frac{342}{929}, \frac{234}{929}, -\frac{99}{929}, -\frac{207}{929}, \frac{126}{929}, \frac{18}{929})$ $+ \frac{18}{929}\sqrt{674}e^4 \otimes e_9 + \frac{18}{929}\sqrt{974}e^2 \otimes e_7$	{123589, 156789}
941:144	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{30}e^{12}, \frac{1}{35}\sqrt{330}e^{13}, \frac{2}{35}\sqrt{30}e^{14} + \frac{3}{35}\sqrt{10}e^{23},$ $\frac{3}{35}\sqrt{10}e^{15} + \frac{4}{35}\sqrt{15}e^{26}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{35}\sqrt{510}e^1 \otimes e_5 + \frac{3}{35}\sqrt{105}e^3 \otimes e_9$	{2345678, 357}
941:144	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{51}e^{13}, \frac{1}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{79}e^{15} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{7}{25}, \frac{2}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{105}e^3 \otimes e_9 + \frac{9}{25}e^5 \otimes e_7$	{1246789, 179, 2347, 3678}
941:144	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{51}e^{13}, \frac{1}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{79}e^{15} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{7}{25}, \frac{2}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{105}e^3 \otimes e_9 - \frac{9}{25}e^5 \otimes e_7$	{1246789, 179, 2347, 3678}
941:144	$0, 0, 0, 0, 0, \frac{6}{1495}\sqrt{687}e^{12}, \frac{6}{1495}\sqrt{237}e^{13}, \frac{21}{1495}\sqrt{6}e^{14} + \frac{3}{1495}\sqrt{4974}e^{23},$ $\frac{3}{1495}\sqrt{4974}e^{15} + \frac{9}{1495}\sqrt{218}e^{26}$	$(-\frac{87}{1495}, \frac{33}{1495}, \frac{6}{1495}, \frac{126}{1495}, \frac{66}{1495}, -\frac{54}{1495}, -\frac{81}{1495}, \frac{3}{115}, -\frac{21}{1495})$ $+ \frac{36}{299}e^3 \otimes e_9 + \frac{6}{1495}\sqrt{1227}e^5 \otimes e_8$	{124689, 368}
941:144	$0, 0, 0, 0, 0, \frac{34}{1125}\sqrt{110}e^{12}, \frac{34}{1125}\sqrt{110}e^{13},$ $\frac{17}{1125}\sqrt{878}e^{14} + \frac{17}{1125}\sqrt{778}e^{23}, \frac{17}{125}\sqrt{6}e^{15} + \frac{17}{1125}\sqrt{782}e^{26}$	$(\frac{17}{375}, -\frac{119}{1125}, \frac{272}{1125}, \frac{34}{375}, -\frac{238}{1125}, -\frac{68}{1125}, \frac{323}{1125}, \frac{17}{125}, -\frac{187}{1125})$ $+ \frac{34}{1125}\sqrt{219}e^4 \otimes e_9 + \frac{68}{1125}\sqrt{73}e^1 \otimes e_5$	{2345678, 458}
941:144	$0, 0, 0, 0, 0, \frac{10}{21}\sqrt{2}e^{12}, \frac{10}{21}\sqrt{2}e^{13}, \frac{10}{21}\sqrt{2}e^{14} + \frac{5}{42}\sqrt{38}e^{23},$ $\frac{5}{42}\sqrt{38}e^{15} + \frac{5}{42}\sqrt{29}e^{26}$	$(\frac{13}{42}, -\frac{1}{7}, \frac{17}{84}, -\frac{1}{4}, -\frac{2}{7}, \frac{1}{6}, \frac{43}{84}, \frac{5}{84}, \frac{1}{42})$ $+ \frac{5}{42}\sqrt{73}e^1 \otimes e_5$	{2345678, 256, 357, 458}
941:144	$0, 0, 0, 0, 0, \frac{7}{500}\sqrt{1563}e^{12}, \frac{1}{250}\sqrt{35949}e^{13},$ $\frac{7}{500}\sqrt{1563}e^{14} + \frac{1}{250}\sqrt{11983}e^{23}, \frac{1}{500}\sqrt{194854}e^{15} + \frac{1}{250}\sqrt{13546}e^{26}$	$(-\frac{101}{500}, \frac{313}{1000}, -\frac{107}{500}, \frac{301}{1000}, \frac{313}{500}, \frac{111}{1000}, -\frac{52}{125}, \frac{99}{1000}, \frac{53}{125})$ $+ \frac{3}{500}\sqrt{48974}e^5 \otimes e_7$	{1246789, 179, 2347, 3678}
941:144	$0, 0, 0, 0, 0, \frac{4}{273}\sqrt{65}e^{12}, \frac{4}{273}\sqrt{65}e^{13}, \frac{1}{273}\sqrt{410}e^{14} + \frac{1}{273}\sqrt{710}e^{23},$ $\frac{1}{273}\sqrt{1130}e^{15} + \frac{10}{273}\sqrt{11}e^{26}$	$(\frac{11}{273}, \frac{1}{91}, -\frac{1}{21}, -\frac{1}{13}, \frac{2}{91}, \frac{2}{39}, -\frac{2}{273}, -\frac{10}{273}, \frac{17}{273})$ $+ \frac{1}{273}\sqrt{1270}e^1 \otimes e_5 + \frac{2}{91}\sqrt{35}e^2 \otimes e_7$	{256, 357}
941:144	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{6}e^{12}, \frac{2}{145}\sqrt{885}e^{13}, \frac{1}{145}\sqrt{2490}e^{14} + \frac{1}{29}\sqrt{6}e^{23},$ $\frac{1}{145}\sqrt{4170}e^{15} + \frac{1}{145}\sqrt{1110}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $+ \frac{14}{145}\sqrt{30}e^5 \otimes e_7 + \frac{2}{145}\sqrt{1545}e^1 \otimes e_4$	{1235, 459}
941:144	$0, 0, 0, 0, 0, \frac{18}{655}\sqrt{273}e^{12}, \frac{18}{655}\sqrt{183}e^{13}, \frac{9}{655}\sqrt{714}e^{14} + \frac{9}{655}\sqrt{1806}e^{23},$ $\frac{9}{655}\sqrt{1806}e^{15} + \frac{27}{655}\sqrt{122}e^{26}$	$(-\frac{63}{655}, \frac{117}{655}, -\frac{126}{655}, \frac{54}{655}, \frac{234}{655}, \frac{54}{655}, -\frac{189}{655}, -\frac{9}{655}, \frac{171}{655})$ $+ \frac{108}{655}\sqrt{5}e^4 \otimes e_7 + \frac{18}{655}\sqrt{723}e^5 \otimes e_8$	{13789, 3468}
941:144	$0, 0, 0, 0, 0, \frac{1}{515}\sqrt{126678}e^{12}, \frac{1}{515}\sqrt{126678}e^{13},$ $\frac{1}{515}\sqrt{85434}e^{14} + \frac{1}{515}\sqrt{28478}e^{23}, \frac{1}{515}\sqrt{112930}e^{15} + \frac{1}{515}\sqrt{982}e^{26}$	$(\frac{229}{515}, -\frac{16}{515}, -\frac{17}{515}, -\frac{262}{515}, -\frac{32}{515}, \frac{213}{515}, \frac{212}{515}, -\frac{33}{515}, \frac{197}{515})$ $+ \frac{12}{515}\sqrt{2946}e^1 \otimes e_4$	{1257, 1356, 24569, 34579}
941:144	$0, 0, 0, 0, 0, \frac{4}{521}\sqrt{1311}e^{12}, \frac{4}{521}\sqrt{1311}e^{13},$ $\frac{1}{521}\sqrt{170430}e^{14} + \frac{9}{521}\sqrt{874}e^{23}, \frac{1}{521}\sqrt{56810}e^{15} + \frac{1}{521}\sqrt{156446}e^{26}$	$(-\frac{129}{521}, \frac{9}{521}, \frac{188}{521}, \frac{326}{521}, \frac{18}{521}, -\frac{120}{521}, \frac{59}{521}, \frac{197}{521}, -\frac{111}{521})$ $+ \frac{2}{521}\sqrt{95703}e^4 \otimes e_9$	{12456, 13457, 2579, 3569}
941:144	$0, 0, 0, 0, 0, \frac{3}{524}\sqrt{12505}e^{12}, \frac{3}{524}\sqrt{12505}e^{13},$ $\frac{1}{524}\sqrt{23790}e^{14} + \frac{1}{524}\sqrt{7930}e^{23}, \frac{9}{262}\sqrt{305}e^{15} + \frac{1}{524}\sqrt{142130}e^{26}$	$(-\frac{91}{524}, \frac{239}{1048}, -\frac{189}{1048}, \frac{29}{131}, \frac{239}{524}, \frac{57}{1048}, -\frac{371}{1048}, \frac{25}{524}, \frac{37}{131})$ $+ \frac{1}{524}\sqrt{272670}e^2 \otimes e_7$	{1234589, 1456789, 2456, 3457}
941:144	$0, 0, 0, 0, 0, \frac{1}{84}\sqrt{302}e^{12}, \frac{1}{56}\sqrt{2265}e^{13}, \frac{1}{56}\sqrt{2265}e^{14} + \frac{1}{24}\sqrt{302}e^{23},$ $\frac{1}{24}\sqrt{302}e^{15} + \frac{1}{168}\sqrt{12382}e^{26}$	$(-\frac{19}{56}, \frac{37}{168}, \frac{13}{336}, \frac{67}{112}, \frac{37}{84}, -\frac{5}{42}, -\frac{101}{336}, \frac{29}{112}, \frac{17}{168})$ $+ \frac{1}{168}\sqrt{43186}e^4 \otimes e_7$	{134, 178, 3679, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:144	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{12}{65}\sqrt{2}e^{13}, \frac{3}{65}\sqrt{29}e^{14} + \frac{3}{65}\sqrt{46}e^{23},$ $\frac{3}{65}\sqrt{61}e^{15} + \frac{9}{65}\sqrt{2}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, -\frac{3}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{3}{65}, \frac{3}{65})$ $-\frac{3}{65}\sqrt{77}e^5 \otimes e_8 + \frac{9}{65}\sqrt{5}e^4 \otimes e_9$	{12689, 13789, 2478, 3468}
941:144	$0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{12}{65}\sqrt{2}e^{13}, \frac{3}{65}\sqrt{29}e^{14} + \frac{3}{65}\sqrt{46}e^{23},$ $\frac{3}{65}\sqrt{61}e^{15} + \frac{9}{65}\sqrt{2}e^{26}$	$(-\frac{9}{65}, \frac{6}{65}, -\frac{3}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{3}{65}, \frac{3}{65})$ $+\frac{3}{65}\sqrt{77}e^5 \otimes e_8 + \frac{9}{65}\sqrt{5}e^4 \otimes e_9$	{12689, 13789, 2478, 3468}
941:144	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{74}e^{12}, \frac{6}{89}\sqrt{74}e^{13}, \frac{6}{89}\sqrt{26}e^{14} + \frac{6}{89}\sqrt{130}e^{23},$ $\frac{12}{89}\sqrt{34}e^{15} + \frac{18}{89}\sqrt{10}e^{26}$	$(0, \frac{15}{89}, -\frac{21}{89}, -\frac{6}{89}, \frac{30}{89}, \frac{15}{89}, -\frac{21}{89}, -\frac{6}{89}, \frac{30}{89})$ $+\frac{18}{89}\sqrt{2}e^2 \otimes e_7 + \frac{6}{89}\sqrt{182}e^5 \otimes e_8$	{2478, 3468}
941:144	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{2}e^{12}, \frac{1}{45}\sqrt{37}e^{13}, \frac{1}{45}\sqrt{37}e^{14} + \frac{1}{45}\sqrt{38}e^{23},$ $\frac{1}{45}\sqrt{38}e^{15} + \frac{1}{15}\sqrt{3}e^{26}$	$(-\frac{1}{45}, -\frac{1}{45}, \frac{1}{15}, \frac{1}{15}, -\frac{2}{45}, -\frac{2}{45}, \frac{2}{45}, -\frac{1}{15})$ $+\frac{1}{45}\sqrt{38}e^4 \otimes e_7 + \frac{1}{45}\sqrt{47}e^1 \otimes e_5$	{357, 458}
941:144	$0, 0, 0, 0, 0, \frac{74}{5485}\sqrt{42}e^{12}, \frac{74}{5485}\sqrt{663}e^{13},$ $\frac{37}{5485}\sqrt{2346}e^{14} + \frac{37}{5485}\sqrt{2038}e^{23}, \frac{37}{5485}\sqrt{3490}e^{15} + \frac{37}{5485}\sqrt{362}e^{26}$	$(\frac{851}{5485}, -\frac{629}{5485}, \frac{962}{5485}, -\frac{518}{5485}, -\frac{1258}{5485}, \frac{222}{5485}, \frac{1813}{5485}, \frac{333}{5485}, -\frac{407}{5485})$ $+\frac{2442}{5485}e^1 \otimes e_4 + \frac{74}{5485}\sqrt{1410}e^3 \otimes e_9$	{12356, 4569}
941:144	$0, 0, 0, 0, 0, \frac{17}{1356}\sqrt{865}e^{12}, \frac{17}{1356}\sqrt{865}e^{13},$ $\frac{17}{1356}\sqrt{366}e^{14} + \frac{17}{1356}\sqrt{122}e^{23}, \frac{17}{678}\sqrt{65}e^{15} + \frac{17}{1356}\sqrt{690}e^{26}$	$(\frac{85}{1356}, \frac{85}{904}, -\frac{493}{2712}, -\frac{17}{113}, \frac{85}{452}, \frac{425}{2712}, -\frac{323}{2712}, -\frac{119}{1356}, \frac{85}{339})$ $+\frac{136}{339}e^1 \otimes e_4 + \frac{17}{1356}\sqrt{1438}e^2 \otimes e_7$	{2456, 3457}
941:144	$0, 0, 0, 0, 0, \frac{23}{172}\sqrt{15}e^{12}, \frac{1}{172}\sqrt{8970}e^{13}, \frac{23}{172}\sqrt{15}e^{14} + \frac{1}{86}\sqrt{3565}e^{23},$ $\frac{1}{86}\sqrt{3565}e^{15} + \frac{1}{43}\sqrt{230}e^{26}$	$(-\frac{7}{172}, -\frac{37}{344}, \frac{71}{172}, \frac{119}{344}, -\frac{37}{172}, -\frac{51}{344}, \frac{16}{43}, \frac{105}{344}, -\frac{11}{43})$ $+\frac{7}{172}\sqrt{690}e^3 \otimes e_9$	{12356, 13458, 2589, 4569}
941:144	$0, 0, 0, 0, 0, \frac{94}{4725}\sqrt{257}e^{12}, \frac{94}{4725}\sqrt{221}e^{13},$ $\frac{47}{4725}\sqrt{1302}e^{14} + \frac{47}{4725}\sqrt{482}e^{23}, \frac{47}{4725}\sqrt{2346}e^{15} + \frac{47}{4725}\sqrt{1254}e^{26}$	$(-\frac{47}{175}, \frac{611}{4725}, \frac{94}{1575}, \frac{2162}{4725}, \frac{1222}{4725}, -\frac{94}{675}, -\frac{47}{225}, \frac{893}{4725}, -\frac{47}{4725})$ $+\frac{188}{4725}\sqrt{239}e^5 \otimes e_7 + \frac{94}{4725}\sqrt{1165}e^4 \otimes e_9$	{1345, 259}
941:144	$0, 0, 0, 0, 0, \frac{52}{1255}\sqrt{66}e^{12}, \frac{26}{1255}\sqrt{579}e^{13},$ $\frac{39}{1255}\sqrt{42}e^{14} + \frac{39}{1255}\sqrt{70}e^{23}, \frac{39}{1255}\sqrt{70}e^{15} + \frac{117}{1255}\sqrt{14}e^{26}$	$(-\frac{247}{1255}, \frac{13}{1255}, \frac{286}{1255}, \frac{546}{1255}, \frac{26}{1255}, -\frac{234}{1255}, \frac{39}{1255}, \frac{299}{1255}, -\frac{221}{1255})$ $+\frac{26}{1255}\sqrt{717}e^4 \otimes e_7 + \frac{26}{1255}\sqrt{969}e^3 \otimes e_9$	{123456, 24589}
941:144	$0, 0, 0, 0, 0, \frac{6}{155}\sqrt{182}e^{12}, \frac{6}{155}\sqrt{182}e^{13}, \frac{3}{155}\sqrt{266}e^{14} + \frac{3}{155}\sqrt{1414}e^{23},$ $\frac{3}{155}\sqrt{1414}e^{15} + \frac{63}{155}\sqrt{2}e^{26}$	$(-\frac{3}{155}, \frac{27}{155}, -\frac{36}{155}, -\frac{6}{155}, \frac{54}{155}, \frac{24}{155}, -\frac{39}{155}, -\frac{9}{155}, \frac{51}{155})$ $+\frac{6}{155}\sqrt{497}e^5 \otimes e_8$	{12689, 13789, 2478, 3468}
941:144	$0, 0, 0, 0, 0, \frac{6}{145}\sqrt{65}e^{12}, \frac{6}{145}\sqrt{65}e^{13}, \frac{3}{29}\sqrt{2}e^{14} + \frac{3}{145}\sqrt{670}e^{23},$ $\frac{3}{145}\sqrt{790}e^{15} + \frac{9}{29}\sqrt{2}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $+\frac{18}{145}\sqrt{10}e^1 \otimes e_4 - \frac{42}{145}\sqrt{5}e^5 \otimes e_8$	{12689, 13789, 2478, 3468}
941:144	$0, 0, 0, 0, 0, \frac{6}{145}\sqrt{65}e^{12}, \frac{6}{145}\sqrt{65}e^{13}, \frac{3}{29}\sqrt{2}e^{14} + \frac{3}{145}\sqrt{670}e^{23},$ $\frac{3}{145}\sqrt{790}e^{15} + \frac{9}{29}\sqrt{2}e^{26}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $+\frac{18}{145}\sqrt{10}e^1 \otimes e_4 + \frac{42}{145}\sqrt{5}e^5 \otimes e_8$	{12689, 13789, 2478, 3468}
941:145	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{78}e^{12}, \frac{1}{35}\sqrt{21}e^{13}, \frac{1}{35}\sqrt{55}e^{14} + \frac{2}{35}\sqrt{11}e^{23},$ $\frac{1}{35}\sqrt{71}e^{16} + \frac{1}{35}\sqrt{62}e^{25}$	$(\frac{1}{70}, \frac{3}{35}, -\frac{4}{35}, -\frac{3}{70}, \frac{1}{35}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{35}, \frac{4}{35})$ $+\frac{1}{35}\sqrt{65}e^2 \otimes e_5 + \frac{2}{35}\sqrt{17}e^1 \otimes e_4$	{156, 457}
941:145	$0, 0, 0, 0, 0, \frac{2}{745}\sqrt{645}e^{12}, \frac{2}{745}\sqrt{1055}e^{13}, \frac{1}{745}\sqrt{690}e^{14} + \frac{1}{745}\sqrt{1230}e^{23},$ $\frac{1}{745}\sqrt{2090}e^{16} + \frac{1}{149}\sqrt{178}e^{25}$	$(\frac{3}{149}, -\frac{5}{149}, \frac{2}{149}, -\frac{6}{149}, \frac{6}{149}, -\frac{2}{149}, \frac{5}{149}, -\frac{3}{149}, \frac{1}{149})$ $+\frac{2}{745}\sqrt{1090}e^5 \otimes e_7 + \frac{6}{149}\sqrt{3}e^3 \otimes e_9$	{124679, 367}
941:145	$0, 0, 0, 0, 0, \frac{31}{4069}\sqrt{1326}e^{12}, \frac{31}{4069}\sqrt{1570}e^{13},$ $\frac{62}{4069}\sqrt{503}e^{14} + \frac{124}{4069}\sqrt{47}e^{23}, \frac{589}{4069}\sqrt{6}e^{16} + \frac{217}{4069}\sqrt{74}e^{25}$	$(\frac{310}{4069}, \frac{465}{4069}, -\frac{62}{313}, -\frac{651}{4069}, \frac{620}{4069}, \frac{775}{4069}, -\frac{496}{4069}, -\frac{341}{4069}, \frac{1085}{4069})$ $+\frac{62}{4069}\sqrt{1039}e^5 \otimes e_8 + \frac{62}{4069}\sqrt{818}e^2 \otimes e_7$	{2489, 34678}
941:145	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{14}e^{12}, \frac{9}{13}e^{13}, \frac{9}{13}e^{14} + \frac{3}{13}\sqrt{14}e^{23},$ $\frac{3}{13}\sqrt{11}e^{16} + \frac{6}{13}\sqrt{3}e^{25}$	$(-\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, \frac{6}{13}, -\frac{4}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{4}{13}, \frac{1}{13})$ $+\frac{3}{13}\sqrt{23}e^2 \otimes e_5$	{1345678, 156, 358, 457}
941:145	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{69}e^{12}, \frac{1}{8}\sqrt{29}e^{13}, \frac{1}{16}\sqrt{42}e^{14} + \frac{1}{16}\sqrt{69}e^{23},$ $\frac{1}{8}\sqrt{23}e^{16} + \frac{1}{16}\sqrt{130}e^{25}$	$(\frac{3}{32}, \frac{1}{8}, -\frac{7}{32}, -\frac{3}{16}, \frac{3}{16}, \frac{7}{32}, -\frac{1}{8}, -\frac{3}{32}, \frac{5}{16})$ $+\frac{1}{8}\sqrt{37}e^5 \otimes e_7$	{124679, 178, 234789, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:145	$0, 0, 0, 0, 0, \frac{19}{892}\sqrt{91e^{12}}, \frac{57}{892}\sqrt{34e^{13}}, \frac{19}{446}\sqrt{83e^{14}} + \frac{19}{892}\sqrt{91e^{23}},$ $\frac{19}{446}\sqrt{26e^{16}} + \frac{19}{892}\sqrt{690e^{25}}$	$(-\frac{247}{1784}, \frac{57}{223}, -\frac{19}{1784}, \frac{171}{446}, -\frac{247}{892}, \frac{209}{1784}, -\frac{133}{892}, \frac{437}{1784}, -\frac{19}{892})$ $+ \frac{19}{446}\sqrt{205e^4} \otimes e_9 + \frac{76}{223}\sqrt{3e^2} \otimes e_7$	{123689, 29}
941:145	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3e^{12}}, \frac{2}{25}\sqrt{42e^{13}}, \frac{4}{25}\sqrt{5e^{14}} + \frac{2}{25}\sqrt{5e^{23}},$ $\frac{2}{25}\sqrt{14e^{16}} + \frac{2}{25}\sqrt{33e^{25}}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{1}{25}, \frac{6}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{47e^4} \otimes e_7 + \frac{4}{25}\sqrt{11e^3} \otimes e_9$	{134, 367}
941:145	$0, 0, 0, 0, 0, \frac{7}{85}\sqrt{38e^{12}}, \frac{7}{85}\sqrt{33e^{13}}, \frac{7}{85}e^{14} + \frac{7}{85}\sqrt{38e^{23}},$ $\frac{7}{85}\sqrt{43e^{16}} + \frac{14}{85}\sqrt{3e^{25}}$	$(-\frac{14}{85}, \frac{21}{85}, \frac{7}{85}, \frac{42}{85}, -\frac{28}{85}, \frac{7}{85}, -\frac{7}{85}, \frac{28}{85}, -\frac{7}{85})$ $+ \frac{56}{85}e^4 \otimes e_9 + \frac{7}{85}\sqrt{87e^2} \otimes e_5$	{1345678, 457}
941:145	$0, 0, 0, 0, 0, \frac{1}{456}\sqrt{39911e^{12}}, \frac{1}{456}\sqrt{111154e^{13}},$ $\frac{1}{228}\sqrt{7833e^{14}} + \frac{1}{456}\sqrt{39911e^{23}}, \frac{1}{114}\sqrt{2611e^{16}} + \frac{1}{152}\sqrt{11190e^{25}}$	$(-\frac{61}{912}, \frac{107}{228}, -\frac{257}{912}, \frac{29}{114}, -\frac{61}{456}, \frac{367}{912}, -\frac{53}{152}, \frac{3}{16}, \frac{51}{152})$ $+ \frac{1}{228}\sqrt{71243e^2} \otimes e_7$	{1235, 15679, 2568, 35789}
941:145	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{20615e^{12}}, \frac{1}{215}\sqrt{4389e^{13}},$ $\frac{1}{215}\sqrt{29393e^{14}} + \frac{1}{215}\sqrt{4389e^{23}}, \frac{12}{215}\sqrt{133e^{16}} + \frac{2}{215}\sqrt{7714e^{25}}$	$(\frac{99}{430}, -\frac{28}{215}, -\frac{6}{215}, -\frac{167}{430}, \frac{99}{215}, \frac{1}{10}, \frac{87}{430}, -\frac{34}{215}, \frac{71}{215})$ $+ \frac{2}{215}\sqrt{12502e^5} \otimes e_8$	{126789, 138, 2489, 34678}
941:145	$0, 0, 0, 0, 0, \frac{6}{145}\sqrt{130e^{12}}, \frac{42}{145}\sqrt{5e^{13}}, \frac{3}{145}\sqrt{310e^{14}} + \frac{3}{145}\sqrt{570e^{23}},$ $\frac{3}{145}\sqrt{710e^{16}} + \frac{3}{29}\sqrt{42e^{25}}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{9}{29})$ $+ \frac{6}{145}\sqrt{310e^5} \otimes e_7 + \frac{6}{29}e^1 \otimes e_4$	{178, 234789}
941:145	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{55e^{12}}, \frac{2}{35}\sqrt{11e^{13}}, \frac{1}{35}\sqrt{78e^{14}} + \frac{1}{35}\sqrt{21e^{23}},$ $\frac{1}{35}\sqrt{62e^{16}} + \frac{1}{35}\sqrt{71e^{25}}$	$(\frac{1}{70}, \frac{3}{35}, -\frac{4}{35}, -\frac{3}{70}, \frac{1}{35}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{35}, \frac{4}{35})$ $+ \frac{1}{35}\sqrt{65e^4} \otimes e_7 + \frac{2}{35}\sqrt{17e^5} \otimes e_8$	{178, 468}
941:145	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{29393e^{12}}, \frac{1}{215}\sqrt{4389e^{13}},$ $\frac{1}{215}\sqrt{20615e^{14}} + \frac{1}{215}\sqrt{4389e^{23}}, \frac{2}{215}\sqrt{7714e^{16}} + \frac{12}{215}\sqrt{133e^{25}}$	$(\frac{99}{430}, -\frac{28}{215}, -\frac{6}{215}, -\frac{167}{430}, \frac{99}{215}, \frac{1}{10}, \frac{87}{430}, -\frac{34}{215}, \frac{71}{215})$ $+ \frac{2}{215}\sqrt{12502e^1} \otimes e_4$	{12359, 1567, 2345679, 45}
941:145	$0, 0, 0, 0, 0, \frac{23}{227}\sqrt{21e^{12}}, \frac{1}{227}\sqrt{19803e^{13}}, \frac{23}{227}\sqrt{21e^{14}} + \frac{1}{227}\sqrt{19803e^{23}},$ $\frac{10}{227}\sqrt{161e^{16}} + \frac{10}{227}\sqrt{161e^{25}}$	$(-\frac{15}{454}, -\frac{42}{227}, \frac{104}{227}, \frac{139}{454}, -\frac{15}{227}, -\frac{99}{454}, \frac{193}{454}, \frac{62}{227}, -\frac{57}{227})$ $+ \frac{8}{227}\sqrt{966e^3} \otimes e_9$	{12356, 1579, 23457, 4569}
941:145	$0, 0, 0, 0, 0, \frac{27}{5485}\sqrt{398e^{12}}, \frac{27}{5485}\sqrt{3418e^{13}},$ $\frac{54}{5485}\sqrt{399e^{14}} + \frac{54}{5485}\sqrt{555e^{23}}, \frac{189}{5485}\sqrt{10e^{16}} + \frac{27}{5485}\sqrt{2886e^{25}}$	$(-\frac{486}{5485}, \frac{513}{5485}, \frac{54}{1097}, \frac{1269}{5485}, -\frac{972}{5485}, \frac{27}{5485}, -\frac{216}{5485}, \frac{783}{5485}, -\frac{459}{5485})$ $+ \frac{54}{5485}\sqrt{1198e^2} \otimes e_7 + \frac{54}{5485}\sqrt{1309e^3} \otimes e_9$	{12356, 1579}
941:145	$0, 0, 0, 0, 0, \frac{9}{13}e^{12}, \frac{3}{13}\sqrt{14e^{13}}, \frac{3}{13}\sqrt{14e^{14}} + \frac{9}{13}e^{23},$ $\frac{6}{13}\sqrt{3e^{16}} + \frac{3}{13}\sqrt{11e^{25}}$	$(-\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, \frac{6}{13}, -\frac{4}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{23e^4} \otimes e_7$	{134, 178, 367, 468}
941:145	$0, 0, 0, 0, 0, \frac{1}{148}\sqrt{6555e^{12}}, \frac{1}{148}\sqrt{690e^{13}}, \frac{1}{74}\sqrt{3795e^{14}} + \frac{1}{148}\sqrt{6555e^{23}},$ $\frac{1}{74}\sqrt{230e^{16}} + \frac{1}{148}\sqrt{15410e^{25}}$	$(-\frac{45}{296}, \frac{3}{37}, \frac{95}{296}, \frac{41}{74}, -\frac{45}{148}, -\frac{21}{296}, \frac{25}{148}, \frac{119}{296}, -\frac{33}{148})$ $+ \frac{3}{74}\sqrt{805e^4} \otimes e_9$	{124567, 15789, 234578, 35679}
941:145	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5e^{12}}, \frac{2}{25}\sqrt{5e^{13}}, \frac{6}{25}\sqrt{3e^{14}} + \frac{2}{25}\sqrt{42e^{23}},$ $\frac{2}{25}\sqrt{33e^{16}} + \frac{2}{25}\sqrt{14e^{25}}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{6}{25}, -\frac{1}{25}, \frac{1}{25}, \frac{6}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{47e^2} \otimes e_5 + \frac{4}{25}\sqrt{11e^3} \otimes e_9$	{1345678, 358}
941:145	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35e^{12}}, \frac{2}{35}\sqrt{21e^{13}}, \frac{1}{5}\sqrt{2e^{14}} + \frac{2}{35}\sqrt{21e^{23}},$ $\frac{1}{35}\sqrt{42e^{16}} + \frac{2}{5}e^{25}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{210e^3} \otimes e_9 - \frac{1}{35}\sqrt{238e^5} \otimes e_8$	{126789, 138, 2489, 34678}
941:145	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35e^{12}}, \frac{2}{35}\sqrt{21e^{13}}, \frac{1}{5}\sqrt{2e^{14}} + \frac{2}{35}\sqrt{21e^{23}},$ $\frac{1}{35}\sqrt{42e^{16}} + \frac{2}{5}e^{25}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{210e^3} \otimes e_9 + \frac{1}{35}\sqrt{238e^5} \otimes e_8$	{126789, 138, 2489, 34678}
941:145	$0, 0, 0, 0, 0, \frac{26}{5245}\sqrt{835e^{12}}, \frac{26}{5245}\sqrt{111e^{13}},$ $\frac{13}{5245}\sqrt{5378e^{14}} + \frac{13}{5245}\sqrt{706e^{23}}, \frac{13}{5245}\sqrt{2042e^{16}} + \frac{39}{5245}\sqrt{614e^{25}}$	$(\frac{91}{5245}, -\frac{429}{5245}, \frac{442}{5245}, -\frac{78}{5245}, \frac{182}{5245}, -\frac{338}{5245}, \frac{533}{5245}, \frac{13}{5245}, -\frac{247}{5245})$ $+ \frac{26}{1049}\sqrt{46e^4} \otimes e_9 + \frac{26}{5245}\sqrt{1317e^5} \otimes e_8$	{123689, 468}
941:145	$0, 0, 0, 0, 0, \frac{31}{4069}\sqrt{2830e^{12}}, \frac{31}{4069}\sqrt{1570e^{13}},$ $\frac{124}{4069}\sqrt{134e^{14}} + \frac{124}{4069}\sqrt{47e^{23}}, \frac{31}{4069}\sqrt{1990e^{16}} + \frac{31}{4069}\sqrt{530e^{25}}$	$(\frac{310}{4069}, \frac{465}{4069}, -\frac{62}{313}, -\frac{651}{4069}, \frac{620}{4069}, \frac{775}{4069}, -\frac{496}{4069}, -\frac{341}{4069}, \frac{1085}{4069})$ $+ \frac{62}{4069}\sqrt{1039e^1} \otimes e_4 + \frac{62}{4069}\sqrt{818e^2} \otimes e_7$	{12359, 1567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:146	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1110}e^{12}, \frac{2}{73}\sqrt{370}e^{13}, \frac{1}{73}\sqrt{222}e^{14},$ $\frac{2}{73}\sqrt{185}e^{15} + \frac{2}{73}\sqrt{481}e^{26} + \frac{2}{73}\sqrt{185}e^{34}$	$(-\frac{19}{73}, \frac{17}{73}, -\frac{1}{73}, \frac{16}{73}, \frac{34}{73}, -\frac{2}{73}, -\frac{20}{73}, -\frac{3}{73}, \frac{15}{73})$ $+\frac{1}{73}\sqrt{1110}e^5 \otimes e_8 + \frac{2}{73}\sqrt{74}e^2 \otimes e_7$	{123459, 357}
941:146	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{2}e^{12}, \frac{2}{9}\sqrt{10}e^{13}, \frac{2}{9}\sqrt{10}e^{14},$ $\frac{4}{9}\sqrt{2}e^{15} + \frac{2}{9}\sqrt{6}e^{26} + \frac{4}{9}e^{34}$	$(\frac{4}{9}, -\frac{2}{9}, 0, 0, -\frac{4}{9}, \frac{2}{9}, \frac{4}{9}, \frac{4}{9}, 0)$ $+\frac{2}{9}\sqrt{30}e^1 \otimes e_5$	{23567, 357}
941:146	$0, 0, 0, 0, 0, \frac{4}{107}\sqrt{30}e^{12}, \frac{10}{107}\sqrt{6}e^{13}, \frac{2}{107}\sqrt{38}e^{14},$ $\frac{4}{107}\sqrt{30}e^{15} + \frac{2}{107}\sqrt{146}e^{26} + \frac{4}{107}\sqrt{15}e^{34}$	$(\frac{4}{107}, -\frac{2}{107}, -\frac{14}{107}, \frac{14}{107}, -\frac{4}{107}, \frac{2}{107}, -\frac{10}{107}, \frac{18}{107}, 0)$ $+\frac{2}{107}\sqrt{170}e^1 \otimes e_5 + \frac{8}{107}\sqrt{14}e^2 \otimes e_7$	{24568, 357}
941:146	$0, 0, 0, 0, 0, \frac{18}{2549}\sqrt{7030}e^{12}, \frac{2}{2549}\sqrt{681910}e^{13}, \frac{6}{2549}\sqrt{9842}e^{14},$ $\frac{10}{2549}\sqrt{20387}e^{15} + \frac{2}{2549}\sqrt{842194}e^{26} + \frac{16}{2549}\sqrt{3515}e^{34}$	$(-\frac{572}{2549}, \frac{541}{2549}, -\frac{293}{2549}, \frac{803}{2549}, \frac{1082}{2549}, -\frac{31}{2549}, -\frac{865}{2549}, \frac{231}{2549}, \frac{510}{2549})$ $+\frac{8}{2549}\sqrt{96311}e^2 \otimes e_7$	{1234589, 15679, 2456, 3578}
941:146	$0, 0, 0, 0, 0, \frac{4}{213}\sqrt{303}e^{12}, \frac{2}{213}\sqrt{5555}e^{13}, \frac{2}{213}\sqrt{5555}e^{14},$ $\frac{2}{213}\sqrt{3939}e^{15} + \frac{2}{213}\sqrt{1010}e^{26} + \frac{4}{213}\sqrt{1111}e^{34}$	$(-\frac{8}{71}, \frac{37}{213}, \frac{38}{71}, -\frac{64}{213}, \frac{74}{213}, \frac{13}{71}, \frac{30}{71}, -\frac{88}{213}, \frac{50}{213})$ $-\frac{2}{213}\sqrt{17978}e^3 \otimes e_8$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:146	$0, 0, 0, 0, 0, \frac{4}{213}\sqrt{303}e^{12}, \frac{2}{213}\sqrt{5555}e^{13}, \frac{2}{213}\sqrt{5555}e^{14},$ $\frac{2}{213}\sqrt{3939}e^{15} + \frac{2}{213}\sqrt{1010}e^{26} + \frac{4}{213}\sqrt{1111}e^{34}$	$(-\frac{8}{71}, \frac{37}{213}, \frac{38}{71}, -\frac{64}{213}, \frac{74}{213}, \frac{13}{71}, \frac{30}{71}, -\frac{88}{213}, \frac{50}{213})$ $+\frac{2}{213}\sqrt{17978}e^3 \otimes e_8$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:146	$0, 0, 0, 0, 0, \frac{2}{2417}\sqrt{466422}e^{12}, \frac{2}{2417}\sqrt{1019535}e^{13}, \frac{2}{2417}\sqrt{242979}e^{14},$ $\frac{2}{2417}\sqrt{1048839}e^{15} + \frac{24}{2417}\sqrt{407}e^{26} + \frac{6}{2417}\sqrt{49654}e^{34}$	$(-\frac{764}{2417}, \frac{779}{2417}, -\frac{120}{2417}, \frac{914}{2417}, \frac{1558}{2417}, \frac{15}{2417}, -\frac{884}{2417}, \frac{150}{2417}, \frac{794}{2417})$ $+\frac{44}{2417}\sqrt{5217}e^5 \otimes e_7$	{12679, 179, 2378, 3678}
941:146	$0, 0, 0, 0, 0, \frac{25}{144}e^{12}, \frac{5}{288}\sqrt{310}e^{13}, \frac{5}{288}\sqrt{310}e^{14},$ $\frac{5}{144}\sqrt{59}e^{15} + \frac{5}{144}\sqrt{6}e^{26} + \frac{5}{144}\sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{18}, \frac{5}{18}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+\frac{5}{288}\sqrt{534}e^3 \otimes e_8 - \frac{5}{288}\sqrt{534}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 3679}
941:146	$0, 0, 0, 0, 0, \frac{25}{144}e^{12}, \frac{5}{288}\sqrt{310}e^{13}, \frac{5}{288}\sqrt{310}e^{14},$ $\frac{5}{144}\sqrt{59}e^{15} + \frac{5}{144}\sqrt{6}e^{26} + \frac{5}{144}\sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{18}, \frac{5}{18}, -\frac{5}{144}, \frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+\frac{5}{288}\sqrt{534}e^3 \otimes e_8 + \frac{5}{288}\sqrt{534}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:146	$0, 0, 0, 0, 0, \frac{25}{144}e^{12}, \frac{5}{288}\sqrt{310}e^{13}, \frac{5}{288}\sqrt{310}e^{14},$ $\frac{5}{144}\sqrt{59}e^{15} + \frac{5}{144}\sqrt{6}e^{26} + \frac{5}{144}\sqrt{62}e^{34}$	$(-\frac{25}{144}, \frac{5}{36}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $-\frac{5}{288}\sqrt{534}e^3 \otimes e_8 + \frac{5}{288}\sqrt{534}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 3679}
941:146	$0, 0, 0, 0, 0, \frac{8}{185}\sqrt{465}e^{12}, \frac{8}{111}\sqrt{38}e^{13}, \frac{8}{555}\sqrt{185}e^{14},$ $\frac{32}{185}\sqrt{5}e^{15} + \frac{104}{555}\sqrt{5}e^{26} + \frac{8}{555}\sqrt{5}e^{34}$	$(-\frac{8}{37}, \frac{20}{111}, \frac{4}{37}, \frac{4}{111}, \frac{40}{111}, -\frac{4}{111}, -\frac{4}{37}, -\frac{20}{111}, \frac{16}{111})$ $+\frac{8}{185}\sqrt{170}e^2 \otimes e_7 + \frac{8}{555}\sqrt{965}e^3 \otimes e_8$	{123459, 156789, 24568, 357}
941:146	$0, 0, 0, 0, 0, \frac{8}{185}\sqrt{465}e^{12}, \frac{8}{111}\sqrt{38}e^{13}, \frac{8}{555}\sqrt{185}e^{14},$ $\frac{32}{185}\sqrt{5}e^{15} + \frac{104}{555}\sqrt{5}e^{26} + \frac{8}{555}\sqrt{5}e^{34}$	$(-\frac{8}{37}, \frac{20}{111}, \frac{4}{37}, \frac{4}{111}, \frac{40}{111}, -\frac{4}{111}, -\frac{4}{37}, -\frac{20}{111}, \frac{16}{111})$ $+\frac{8}{185}\sqrt{170}e^2 \otimes e_7 - \frac{8}{555}\sqrt{965}e^3 \otimes e_8$	{123459, 156789, 24568, 357}
941:147	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{7770}e^{12}, \frac{8}{311}\sqrt{555}e^{13}, \frac{2}{311}\sqrt{15910}e^{14},$ $\frac{1}{311}\sqrt{15170}e^{16} + \frac{2}{311}\sqrt{15910}e^{23} + \frac{1}{311}\sqrt{32930}e^{45}$	$(-\frac{20}{311}, \frac{118}{311}, -\frac{40}{311}, -\frac{47}{311}, \frac{125}{311}, \frac{98}{311}, -\frac{60}{311}, -\frac{67}{311}, \frac{78}{311})$ $+\frac{5}{311}\sqrt{4070}e^2 \otimes e_8$	{12347, 136789, 2356, 34589}
941:147	$0, 0, 0, 0, 0, \frac{31}{2575}\sqrt{6}e^{12}, \frac{124}{2575}\sqrt{6}e^{13}, \frac{124}{2575}\sqrt{129}e^{14},$ $\frac{31}{2575}\sqrt{1034}e^{16} + \frac{124}{2575}\sqrt{86}e^{23} + \frac{124}{2575}\sqrt{46}e^{45}$	$(-\frac{248}{2575}, \frac{186}{515}, -\frac{496}{2575}, \frac{217}{2575}, \frac{217}{2575}, \frac{682}{2575}, -\frac{744}{2575}, -\frac{31}{2575}, \frac{434}{2575})$ $+\frac{124}{2575}\sqrt{129}e^4 \otimes e_7 + \frac{31}{2575}\sqrt{2606}e^2 \otimes e_8$	{178, 4568}
941:147	$0, 0, 0, 0, 0, \frac{6}{2009}\sqrt{48910}e^{12}, \frac{2}{2009}\sqrt{516570}e^{13}, \frac{2}{2009}\sqrt{187935}e^{14},$ $\frac{4}{2009}\sqrt{38190}e^{16} + \frac{8}{2009}\sqrt{23115}e^{23} + \frac{30}{2009}\sqrt{469}e^{45}$	$(-\frac{269}{2009}, \frac{1203}{2009}, -\frac{538}{2009}, \frac{426}{2009}, \frac{239}{2009}, \frac{934}{2009}, -\frac{807}{2009}, \frac{157}{2009}, \frac{95}{287})$ $+\frac{30}{2009}\sqrt{7437}e^2 \otimes e_7$	{123, 123458, 3479, 35789}
941:147	$0, 0, 0, 0, 0, \frac{4}{593}\sqrt{7535}e^{12}, \frac{12}{593}\sqrt{330}e^{13}, \frac{2}{593}\sqrt{41910}e^{14},$ $\frac{2}{593}\sqrt{24090}e^{16} + \frac{2}{593}\sqrt{41910}e^{23} + \frac{110}{593}\sqrt{6}e^{45}$	$(\frac{52}{593}, -\frac{59}{593}, \frac{104}{593}, -\frac{168}{593}, \frac{213}{593}, -\frac{7}{593}, \frac{156}{593}, -\frac{116}{593}, \frac{45}{593})$ $+\frac{10}{593}\sqrt{2398}e^3 \otimes e_8$	{126789, 1578, 24589, 468}
941:147	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{7770}e^{12}, \frac{1}{311}\sqrt{66230}e^{13}, \frac{1}{311}\sqrt{38110}e^{14},$ $\frac{1}{311}\sqrt{15170}e^{16} + \frac{1}{311}\sqrt{38110}e^{23} + \frac{2}{311}\sqrt{17205}e^{45}$	$(-\frac{20}{311}, \frac{118}{311}, -\frac{40}{311}, -\frac{47}{311}, \frac{125}{311}, \frac{98}{311}, -\frac{60}{311}, -\frac{67}{311}, \frac{78}{311})$ $+\frac{5}{311}\sqrt{4070}e^5 \otimes e_7$	{127, 146789, 2456, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:147	$0, 0, 0, 0, 0, \frac{6}{1961}\sqrt{14910}e^{12}, \frac{10}{1961}\sqrt{1065}e^{13}, \frac{12}{1961}\sqrt{18105}e^{14},$ $\frac{2}{1961}\sqrt{321630}e^{16} + \frac{2}{1961}\sqrt{71355}e^{23} + \frac{24}{1961}\sqrt{3905}e^{45}$	$(\frac{117}{1961}, \frac{385}{1961}, \frac{234}{1961}, -\frac{22}{53}, \frac{1433}{1961}, \frac{502}{1961}, \frac{351}{1961}, -\frac{697}{1961}, \frac{619}{1961})$ $+ \frac{30}{1961}\sqrt{7739}e^5 \otimes e_8$	{1457, 178, 2489, 259}
941:147	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{370}e^{12}, \frac{1}{47}\sqrt{555}e^{13}, \frac{6}{47}\sqrt{74}e^{14},$ $\frac{1}{47}\sqrt{555}e^{16} + \frac{1}{94}\sqrt{4773}e^{23} + \frac{3}{94}\sqrt{370}e^{45}$	$(\frac{3}{188}, \frac{4}{47}, \frac{3}{94}, \frac{61}{94}, -\frac{25}{47}, \frac{19}{188}, \frac{9}{188}, \frac{125}{188}, \frac{11}{94})$ $+ \frac{3}{94}\sqrt{1961}e^4 \otimes e_5$	{14, 158, 4678, 567}
941:147	$0, 0, 0, 0, 0, \frac{12}{1931}\sqrt{4715}e^{12}, \frac{10}{1931}\sqrt{23046}e^{13}, \frac{4}{1931}\sqrt{62445}e^{14},$ $\frac{2}{1931}\sqrt{342930}e^{16} + \frac{2}{1931}\sqrt{133170}e^{23} + \frac{6}{1931}\sqrt{57730}e^{45}$	$(-\frac{188}{1931}, \frac{705}{1931}, -\frac{376}{1931}, \frac{816}{1931}, -\frac{487}{1931}, \frac{517}{1931}, -\frac{564}{1931}, \frac{628}{1931}, \frac{329}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^4 \otimes e_7$	{123469, 1345, 23579, 367}
941:147	$0, 0, 0, 0, 0, \frac{53}{4461}\sqrt{310}e^{12}, \frac{106}{4461}\sqrt{195}e^{13}, \frac{53}{1487}\sqrt{186}e^{14},$ $\frac{106}{4461}\sqrt{235}e^{16} + \frac{106}{4461}\sqrt{473}e^{23} + \frac{265}{4461}\sqrt{22}e^{45}$	$(-\frac{424}{4461}, \frac{1537}{4461}, -\frac{848}{4461}, \frac{583}{1487}, -\frac{1060}{4461}, \frac{371}{1487}, -\frac{424}{1487}, \frac{1325}{4461}, \frac{689}{4461})$ $+ \frac{530}{4461}\sqrt{43}e^2 \otimes e_7 + \frac{53}{4461}\sqrt{3646}e^4 \otimes e_5$	{1234, 12358}
941:147	$0, 0, 0, 0, 0, \frac{31}{5749}\sqrt{546}e^{12}, \frac{62}{5749}\sqrt{753}e^{13}, \frac{31}{5749}\sqrt{6646}e^{14},$ $\frac{62}{5749}\sqrt{422}e^{16} + \frac{31}{5749}\sqrt{5218}e^{23} + \frac{31}{5749}\sqrt{3194}e^{45}$	$(-\frac{403}{5749}, \frac{1271}{5749}, -\frac{806}{5749}, \frac{713}{5749}, -\frac{248}{5749}, \frac{868}{5749}, -\frac{1209}{5749}, \frac{310}{5749}, \frac{465}{5749})$ $+ \frac{186}{5749}\sqrt{119}e^4 \otimes e_5 + \frac{62}{5749}\sqrt{1655}e^2 \otimes e_8$	{158, 4678}
941:147	$0, 0, 0, 0, 0, \frac{13}{5381}\sqrt{4322}e^{12}, \frac{78}{5381}\sqrt{21}e^{13}, \frac{13}{5381}\sqrt{6874}e^{14},$ $\frac{26}{5381}\sqrt{834}e^{16} + \frac{26}{5381}\sqrt{1418}e^{23} + \frac{13}{5381}\sqrt{2958}e^{45}$	$(\frac{182}{5381}, -\frac{507}{5381}, \frac{364}{5381}, \frac{13}{5381}, -\frac{156}{5381}, -\frac{325}{5381}, \frac{546}{5381}, \frac{195}{5381}, -\frac{143}{5381})$ $+ \frac{13}{5381}\sqrt{3606}e^4 \otimes e_5 + \frac{26}{5381}\sqrt{1705}e^3 \otimes e_8$	{1578, 468}
941:147	$0, 0, 0, 0, 0, \frac{7}{517}\sqrt{894}e^{12}, \frac{7}{517}\sqrt{1002}e^{13}, \frac{21}{517}\sqrt{106}e^{14},$ $\frac{21}{517}\sqrt{102}e^{16} + \frac{21}{517}\sqrt{106}e^{23} + \frac{42}{517}\sqrt{2}e^{45}$	$(\frac{14}{517}, \frac{28}{517}, \frac{28}{517}, -\frac{133}{517}, \frac{189}{517}, \frac{42}{517}, \frac{42}{517}, -\frac{119}{517}, \frac{56}{517})$ $+ \frac{14}{517}\sqrt{474}e^3 \otimes e_8 + \frac{7}{517}\sqrt{978}e^5 \otimes e_7$	{178, 4568}
941:147	$0, 0, 0, 0, 0, \frac{26}{569}\sqrt{42}e^{12}, \frac{26}{569}\sqrt{79}e^{13}, \frac{26}{569}\sqrt{58}e^{14},$ $\frac{26}{569}\sqrt{74}e^{16} + \frac{26}{569}\sqrt{65}e^{23} + \frac{26}{569}\sqrt{86}e^{45}$	$(-\frac{39}{569}, \frac{221}{569}, -\frac{78}{569}, -\frac{78}{569}, \frac{221}{569}, \frac{182}{569}, -\frac{117}{569}, -\frac{117}{569}, \frac{143}{569})$ $- \frac{26}{569}\sqrt{241}e^5 \otimes e_8 + \frac{26}{569}\sqrt{262}e^2 \otimes e_7$	{12345, 1238, 34789, 3579}
941:147	$0, 0, 0, 0, 0, \frac{26}{569}\sqrt{42}e^{12}, \frac{26}{569}\sqrt{79}e^{13}, \frac{26}{569}\sqrt{58}e^{14},$ $\frac{26}{569}\sqrt{74}e^{16} + \frac{26}{569}\sqrt{65}e^{23} + \frac{26}{569}\sqrt{86}e^{45}$	$(-\frac{39}{569}, \frac{221}{569}, -\frac{78}{569}, -\frac{78}{569}, \frac{221}{569}, \frac{182}{569}, -\frac{117}{569}, -\frac{117}{569}, \frac{143}{569})$ $+ \frac{26}{569}\sqrt{241}e^5 \otimes e_8 + \frac{26}{569}\sqrt{262}e^2 \otimes e_7$	{12345, 1238, 34789, 3579}
941:147	$0, 0, 0, 0, 0, \frac{25}{853}\sqrt{86}e^{12}, \frac{150}{853}\sqrt{2}e^{13}, \frac{25}{853}\sqrt{138}e^{14},$ $\frac{5}{853}\sqrt{2490}e^{16} + \frac{60}{853}\sqrt{30}e^{23} + \frac{5}{853}\sqrt{1590}e^{45}$	$(-\frac{10}{853}, \frac{95}{853}, -\frac{20}{853}, -\frac{135}{853}, \frac{210}{853}, \frac{85}{853}, -\frac{30}{853}, -\frac{145}{853}, \frac{75}{853})$ $+ \frac{15}{853}\sqrt{290}e^2 \otimes e_7 + \frac{5}{853}\sqrt{5410}e^3 \otimes e_8$	{1578, 24589}
941:147	$0, 0, 0, 0, 0, \frac{4}{263}\sqrt{47}e^{12}, \frac{4}{263}\sqrt{39}e^{13}, \frac{10}{263}\sqrt{10}e^{14},$ $\frac{2}{263}\sqrt{186}e^{16} + \frac{2}{263}\sqrt{182}e^{23} + \frac{2}{263}\sqrt{6}e^{45}$	$(-\frac{4}{263}, \frac{15}{263}, -\frac{8}{263}, -\frac{8}{263}, \frac{15}{263}, \frac{11}{263}, -\frac{12}{263}, -\frac{12}{263}, \frac{7}{263})$ $+ \frac{2}{263}\sqrt{298}e^3 \otimes e_8 - \frac{4}{263}\sqrt{51}e^4 \otimes e_7$	{126789, 1578, 24589, 468}
941:147	$0, 0, 0, 0, 0, \frac{4}{263}\sqrt{47}e^{12}, \frac{4}{263}\sqrt{39}e^{13}, \frac{10}{263}\sqrt{10}e^{14},$ $\frac{2}{263}\sqrt{186}e^{16} + \frac{2}{263}\sqrt{182}e^{23} + \frac{2}{263}\sqrt{6}e^{45}$	$(-\frac{4}{263}, \frac{15}{263}, -\frac{8}{263}, -\frac{8}{263}, \frac{15}{263}, \frac{11}{263}, -\frac{12}{263}, -\frac{12}{263}, \frac{7}{263})$ $+ \frac{2}{263}\sqrt{298}e^3 \otimes e_8 + \frac{4}{263}\sqrt{51}e^4 \otimes e_7$	{126789, 1578, 24589, 468}
941:147	$0, 0, 0, 0, 0, \frac{7}{1245}\sqrt{1630}e^{12}, \frac{56}{249}\sqrt{2}e^{13}, \frac{7}{1245}\sqrt{3210}e^{14},$ $\frac{7}{1245}\sqrt{3070}e^{16} + \frac{7}{249}\sqrt{26}e^{23} + \frac{28}{415}\sqrt{30}e^{45}$	$(-\frac{28}{415}, \frac{21}{83}, -\frac{56}{415}, -\frac{7}{1245}, \frac{154}{1245}, \frac{77}{415}, -\frac{84}{415}, -\frac{91}{1245}, \frac{49}{415})$ $+ \frac{7}{1245}\sqrt{4990}e^5 \otimes e_8 + \frac{7}{1245}\sqrt{6590}e^4 \otimes e_7$	{1345, 23579}
941:148	$0, 0, 0, 0, 0, \frac{5}{396}\sqrt{230}e^{12}, \frac{5}{396}\sqrt{295}e^{13}, \frac{5}{396}\sqrt{295}e^{14},$ $\frac{5}{396}\sqrt{266}e^{16} + \frac{5}{33}e^{25} + \frac{5}{66}\sqrt{3}e^{34}$	$(-\frac{25}{396}, \frac{65}{396}, \frac{5}{264}, \frac{5}{264}, -\frac{25}{198}, \frac{10}{99}, -\frac{35}{792}, -\frac{35}{792}, \frac{5}{132})$ $+ \frac{5}{396}\sqrt{374}e^3 \otimes e_8 - \frac{5}{396}\sqrt{374}e^4 \otimes e_7$	{134, 178, 2379}
941:148	$0, 0, 0, 0, 0, \frac{5}{396}\sqrt{230}e^{12}, \frac{5}{396}\sqrt{295}e^{13}, \frac{5}{396}\sqrt{295}e^{14},$ $\frac{5}{396}\sqrt{266}e^{16} + \frac{5}{33}e^{25} + \frac{5}{66}\sqrt{3}e^{34}$	$(-\frac{25}{396}, \frac{65}{396}, \frac{5}{264}, \frac{5}{264}, -\frac{25}{198}, \frac{10}{99}, -\frac{35}{792}, -\frac{35}{792}, \frac{5}{132})$ $+ \frac{5}{396}\sqrt{374}e^3 \otimes e_8 + \frac{5}{396}\sqrt{374}e^4 \otimes e_7$	{134, 178, 2379}
941:148	$0, 0, 0, 0, 0, \frac{11}{108}\sqrt{122}e^{12}, \frac{11}{36}\sqrt{5}e^{13}, \frac{11}{36}\sqrt{5}e^{14},$ $\frac{11}{108}\sqrt{46}e^{16} + \frac{11}{54}\sqrt{15}e^{25} + \frac{11}{108}\sqrt{46}e^{34}$	$(-\frac{11}{54}, \frac{77}{108}, \frac{11}{72}, \frac{11}{72}, -\frac{11}{27}, \frac{55}{108}, -\frac{11}{216}, -\frac{11}{216}, \frac{11}{36})$ $+ \frac{11}{108}\sqrt{182}e^2 \otimes e_5$	{1345678, 156, 345, 578}
941:148	$0, 0, 0, 0, 0, \frac{1}{148}\sqrt{230}e^{12}, \frac{1}{74}\sqrt{3795}e^{13}, \frac{1}{148}\sqrt{690}e^{14},$ $\frac{1}{148}\sqrt{6555}e^{16} + \frac{1}{148}\sqrt{15410}e^{25} + \frac{1}{148}\sqrt{6555}e^{34}$	$(-\frac{45}{296}, \frac{77}{148}, -\frac{31}{296}, \frac{95}{296}, -\frac{45}{148}, \frac{109}{296}, -\frac{19}{74}, \frac{25}{148}, \frac{8}{37})$ $+ \frac{3}{74}\sqrt{805}e^2 \otimes e_7$	{12358, 156789, 24568, 345789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:148	$0, 0, 0, 0, 0, \frac{44}{189}\sqrt{2}e^{12}, \frac{11}{63}\sqrt{5}e^{13}, \frac{11}{63}\sqrt{5}e^{14},$ $\frac{11}{189}\sqrt{35}e^{16} + \frac{11}{189}\sqrt{6}e^{25} + \frac{88}{189}e^{34}$	$(-\frac{22}{189}, \frac{11}{27}, \frac{22}{63}, -\frac{11}{63}, -\frac{44}{189}, \frac{55}{189}, \frac{44}{189}, -\frac{55}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{137}e^2 \otimes e_5 + \frac{11}{63}\sqrt{22}e^3 \otimes e_8$	{1234, 1278}
941:148	$0, 0, 0, 0, 0, \frac{35}{4021}\sqrt{158}e^{12}, \frac{14}{4021}\sqrt{1230}e^{13}, \frac{7}{4021}\sqrt{2462}e^{14},$ $\frac{7}{4021}\sqrt{3310}e^{16} + \frac{7}{4021}\sqrt{4814}e^{25} + \frac{56}{4021}\sqrt{30}e^{34}$	$(\frac{112}{4021}, -\frac{259}{4021}, \frac{63}{4021}, -\frac{98}{4021}, \frac{224}{4021}, -\frac{147}{4021}, \frac{175}{4021}, \frac{14}{4021}, -\frac{35}{4021})$ $+ \frac{14}{4021}\sqrt{1229}e^5 \otimes e_7 + \frac{14}{4021}\sqrt{695}e^3 \otimes e_8$	{126789, 367}
941:148	$0, 0, 0, 0, 0, \frac{37}{4285}\sqrt{1046}e^{12}, \frac{37}{4285}\sqrt{3578}e^{13}, \frac{222}{4285}\sqrt{43}e^{14},$ $\frac{37}{4285}\sqrt{2266}e^{16} + \frac{37}{857}\sqrt{114}e^{25} + \frac{148}{857}e^{34}$	$(-\frac{518}{4285}, \frac{1517}{4285}, \frac{666}{4285}, -\frac{37}{857}, -\frac{1036}{4285}, \frac{999}{4285}, \frac{148}{4285}, -\frac{703}{4285}, \frac{481}{4285})$ $+ \frac{74}{4285}\sqrt{1015}e^2 \otimes e_7 + \frac{74}{4285}\sqrt{933}e^3 \otimes e_8$	{123469, 367}
941:148	$0, 0, 0, 0, 0, \frac{1}{440}\sqrt{81534}e^{12}, \frac{1}{440}\sqrt{116967}e^{13}, \frac{1}{440}\sqrt{116967}e^{14},$ $\frac{127}{440}\sqrt{6}e^{16} + \frac{1}{110}\sqrt{3810}e^{25} + \frac{3}{220}\sqrt{1270}e^{34}$	$(-\frac{7}{440}, \frac{93}{440}, \frac{453}{880}, -\frac{59}{176}, -\frac{7}{220}, \frac{43}{220}, \frac{439}{880}, -\frac{309}{880}, \frac{79}{440})$ $+ \frac{1}{220}\sqrt{71247}e^3 \otimes e_8$	{134, 178, 2379, 2489}
941:148	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{23}e^{12}, \frac{1}{8}\sqrt{29}e^{13}, \frac{1}{16}\sqrt{42}e^{14},$ $\frac{1}{16}\sqrt{69}e^{16} + \frac{1}{16}\sqrt{130}e^{25} + \frac{1}{16}\sqrt{69}e^{34}$	$(\frac{3}{32}, -\frac{13}{80}, -\frac{7}{32}, \frac{39}{160}, \frac{3}{16}, -\frac{11}{160}, -\frac{1}{8}, \frac{27}{80}, \frac{1}{40})$ $+ \frac{1}{8}\sqrt{37}e^5 \otimes e_7$	{126789, 147, 234789, 367}
941:149	$0, 0, 0, 0, 0, \frac{282}{7277}\sqrt{101}e^{12}, \frac{47}{7277}\sqrt{6082}e^{13}, \frac{47}{7277}\sqrt{3982}e^{24},$ $\frac{47}{7277}\sqrt{1938}e^{14} + \frac{188}{7277}\sqrt{59}e^{26} + \frac{47}{7277}\sqrt{1994}e^{35}$	$(-\frac{1645}{7277}, \frac{846}{7277}, \frac{1128}{7277}, \frac{1692}{7277}, -\frac{1081}{7277}, -\frac{799}{7277}, \frac{517}{7277}, \frac{2538}{7277}, \frac{47}{7277})$ $+ \frac{235}{7277}\sqrt{210}e^3 \otimes e_5 + \frac{47}{7277}\sqrt{8210}e^4 \otimes e_7$	{2378, 367}
941:149	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{235}e^{12}, \frac{1}{61}\sqrt{235}e^{13}, \frac{1}{61}\sqrt{2726}e^{24},$ $\frac{1}{61}\sqrt{987}e^{14} + \frac{1}{61}\sqrt{1222}e^{26} + \frac{1}{61}\sqrt{2726}e^{35}$	$(\frac{24}{61}, -\frac{5}{61}, -\frac{18}{61}, -\frac{10}{61}, \frac{32}{61}, \frac{19}{61}, \frac{6}{61}, -\frac{15}{61}, \frac{14}{61})$ $+ \frac{1}{61}\sqrt{4935}e^5 \otimes e_8$	{124569, 134789, 2345, 4678}
941:149	$0, 0, 0, 0, 0, \frac{437}{1313}e^{12}, \frac{19}{1313}\sqrt{479}e^{13}, \frac{38}{1313}\sqrt{293}e^{24},$ $\frac{133}{1313}\sqrt{3}e^{14} + \frac{38}{1313}\sqrt{127}e^{26} + \frac{76}{1313}\sqrt{26}e^{35}$	$(\frac{57}{1313}, \frac{38}{1313}, -\frac{342}{1313}, \frac{76}{1313}, \frac{475}{1313}, \frac{95}{1313}, -\frac{285}{1313}, \frac{114}{1313}, \frac{133}{1313})$ $+ \frac{114}{1313}\sqrt{35}e^4 \otimes e_7 + \frac{19}{1313}\sqrt{1155}e^5 \otimes e_8$	{1579, 3567}
941:149	$0, 0, 0, 0, 0, \frac{50}{1609}\sqrt{23}e^{12}, \frac{25}{1609}\sqrt{222}e^{13}, \frac{25}{1609}\sqrt{222}e^{24},$ $\frac{5}{1609}\sqrt{3810}e^{14} + \frac{15}{1609}\sqrt{230}e^{26} + \frac{15}{1609}\sqrt{230}e^{35}$	$(\frac{95}{1609}, -\frac{10}{1609}, -\frac{240}{1609}, -\frac{20}{1609}, \frac{315}{1609}, \frac{85}{1609}, -\frac{145}{1609}, -\frac{30}{1609}, \frac{75}{1609})$ $+ \frac{15}{1609}\sqrt{770}e^1 \otimes e_8 + \frac{20}{1609}\sqrt{505}e^4 \otimes e_7$	{179, 2378}
941:149	$0, 0, 0, 0, 0, \frac{18}{2141}\sqrt{94}e^{12}, \frac{3}{2141}\sqrt{4962}e^{13}, \frac{18}{2141}\sqrt{174}e^{24},$ $\frac{36}{2141}\sqrt{2}e^{14} + \frac{3}{2141}\sqrt{2274}e^{26} + \frac{12}{2141}\sqrt{102}e^{35}$	$(-\frac{84}{2141}, \frac{30}{2141}, \frac{117}{2141}, \frac{60}{2141}, -\frac{141}{2141}, -\frac{54}{2141}, \frac{33}{2141}, \frac{90}{2141}, -\frac{24}{2141})$ $+ \frac{15}{2141}\sqrt{222}e^4 \otimes e_7 + \frac{3}{2141}\sqrt{6510}e^3 \otimes e_8$	{123469, 468}
941:149	$0, 0, 0, 0, 0, \frac{4}{11}\sqrt{3}e^{12}, \frac{2}{33}\sqrt{42}e^{13}, \frac{2}{11}\sqrt{2}e^{24},$ $\frac{2}{11}\sqrt{3}e^{14} + \frac{2}{33}\sqrt{30}e^{26} + \frac{4}{33}\sqrt{3}e^{35}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0)$ $+ \frac{2}{33}\sqrt{30}e^3 \otimes e_5 + \frac{4}{33}\sqrt{15}e^2 \otimes e_7$	{2456, 3478}
941:149	$0, 0, 0, 0, 0, \frac{2}{691}\sqrt{21}e^{12}, \frac{8}{691}\sqrt{17}e^{13}, \frac{2}{691}\sqrt{269}e^{24},$ $\frac{2}{691}\sqrt{223}e^{14} + \frac{2}{691}\sqrt{86}e^{26} + \frac{2}{691}\sqrt{77}e^{35}$	$(-\frac{14}{691}, \frac{5}{691}, \frac{17}{691}, \frac{10}{691}, -\frac{21}{691}, -\frac{9}{691}, \frac{3}{691}, \frac{15}{691}, -\frac{4}{691})$ $+ \frac{10}{691}\sqrt{13}e^2 \otimes e_7 + \frac{2}{691}\sqrt{310}e^3 \otimes e_8$	{12349, 1456789}
941:149	$0, 0, 0, 0, 0, \frac{6}{851}\sqrt{606}e^{12}, \frac{36}{851}\sqrt{34}e^{13}, \frac{6}{851}\sqrt{854}e^{24},$ $\frac{12}{851}\sqrt{123}e^{14} + \frac{12}{851}\sqrt{182}e^{26} + \frac{6}{851}\sqrt{382}e^{35}$	$(\frac{54}{851}, -\frac{6}{851}, -\frac{132}{851}, -\frac{12}{851}, \frac{174}{851}, \frac{48}{851}, -\frac{78}{851}, -\frac{18}{851}, \frac{42}{851})$ $+ \frac{12}{851}\sqrt{310}e^1 \otimes e_8 + \frac{30}{851}\sqrt{74}e^2 \otimes e_7$	{123459, 3478}
941:149	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{14}e^{12}, \frac{12}{23}\sqrt{2}e^{13}, \frac{12}{23}\sqrt{2}e^{24},$ $\frac{8}{23}\sqrt{3}e^{14} + \frac{4}{23}\sqrt{6}e^{26} + \frac{4}{23}\sqrt{6}e^{35}$	$(-\frac{5}{23}, \frac{4}{23}, -\frac{3}{23}, \frac{8}{23}, \frac{6}{23}, -\frac{1}{23}, -\frac{8}{23}, \frac{12}{23}, \frac{3}{23})$ $+ \frac{8}{23}\sqrt{10}e^4 \otimes e_7$	{126789, 179, 2378, 367}
941:149	$0, 0, 0, 0, 0, \frac{216}{3389}\sqrt{6}e^{12}, \frac{54}{3389}\sqrt{974}e^{13}, \frac{54}{3389}\sqrt{699}e^{24},$ $\frac{54}{3389}\sqrt{53}e^{14} + \frac{108}{3389}\sqrt{58}e^{26} + \frac{54}{3389}\sqrt{318}e^{35}$	$(\frac{891}{3389}, -\frac{189}{3389}, -\frac{918}{3389}, -\frac{378}{3389}, \frac{1431}{3389}, \frac{702}{3389}, -\frac{27}{3389}, -\frac{567}{3389}, \frac{513}{3389})$ $+ \frac{108}{3389}\sqrt{410}e^1 \otimes e_8 - \frac{270}{3389}\sqrt{55}e^5 \otimes e_7$	{12345, 1247, 34789, 4589}
941:149	$0, 0, 0, 0, 0, \frac{216}{3389}\sqrt{6}e^{12}, \frac{54}{3389}\sqrt{974}e^{13}, \frac{54}{3389}\sqrt{699}e^{24},$ $\frac{54}{3389}\sqrt{53}e^{14} + \frac{108}{3389}\sqrt{58}e^{26} + \frac{54}{3389}\sqrt{318}e^{35}$	$(\frac{891}{3389}, -\frac{189}{3389}, -\frac{918}{3389}, -\frac{378}{3389}, \frac{1431}{3389}, \frac{702}{3389}, -\frac{27}{3389}, -\frac{567}{3389}, \frac{513}{3389})$ $+ \frac{108}{3389}\sqrt{410}e^1 \otimes e_8 + \frac{270}{3389}\sqrt{55}e^5 \otimes e_7$	{12345, 1247, 34789, 4589}
941:149	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{210}e^{12}, \frac{1}{16}\sqrt{91}e^{13}, \frac{1}{32}\sqrt{210}e^{24},$ $\frac{1}{16}\sqrt{77}e^{14} + \frac{1}{16}\sqrt{91}e^{26} + \frac{1}{32}\sqrt{2}e^{35}$	$(-\frac{5}{32}, \frac{1}{8}, -\frac{5}{32}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{32}, -\frac{1}{16}, \frac{3}{8}, \frac{3}{32})$ $+ \frac{1}{32}\sqrt{770}e^2 \otimes e_7$	{123459, 146789, 2456, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:149	$0, 0, 0, 0, 0, \frac{114}{7597} \sqrt{29}e^{12}, \frac{57}{7597} \sqrt{5182}e^{13}, \frac{57}{7597} \sqrt{2846}e^{24},$ $\frac{57}{7597} \sqrt{978}e^{14} + \frac{57}{7597} \sqrt{278}e^{26} + \frac{57}{7597} \sqrt{1446}e^{35}$	$(\frac{1539}{7597}, -\frac{570}{7597}, \frac{1824}{7597}, -\frac{1140}{7597}, -\frac{1425}{7597}, \frac{969}{7597}, \frac{3363}{7597}, -\frac{1710}{7597}, \frac{399}{7597})$ $+ \frac{228}{7597} \sqrt{365}e^3 \otimes e_5 + \frac{57}{7597} \sqrt{7810}e^1 \otimes e_8$	{1234, 12457}
941:149	$0, 0, 0, 0, 0, \frac{2}{259} \sqrt{2899}e^{12}, \frac{1}{259} \sqrt{30774}e^{13}, \frac{1}{259} \sqrt{30774}e^{24},$ $\frac{1}{259} \sqrt{19178}e^{14} + \frac{1}{259} \sqrt{7582}e^{26} + \frac{1}{259} \sqrt{7582}e^{35}$	$(\frac{121}{259}, -\frac{34}{259}, -\frac{8}{259}, -\frac{68}{259}, \frac{61}{259}, \frac{87}{259}, \frac{113}{259}, -\frac{102}{259}, \frac{53}{259})$ $+ \frac{1}{259} \sqrt{95890}e^1 \otimes e_8$	{1234, 12457, 345789, 489}
941:149	$0, 0, 0, 0, 0, \frac{4}{497} \sqrt{3070}e^{12}, \frac{2}{497} \sqrt{63242}e^{13}, \frac{2}{497} \sqrt{12894}e^{24},$ $\frac{2}{497} \sqrt{12587}e^{14} + \frac{2}{497} \sqrt{12894}e^{26} + \frac{4}{497} \sqrt{3070}e^{35}$	$(-\frac{38}{497}, \frac{43}{497}, \frac{331}{497}, \frac{86}{497}, -\frac{283}{497}, \frac{5}{497}, \frac{293}{497}, \frac{129}{497}, \frac{48}{497})$ $+ \frac{2}{497} \sqrt{125870}e^3 \otimes e_5$	{12368, 125678, 13, 157}
941:149	$0, 0, 0, 0, 0, \frac{82}{493} \sqrt{6}e^{12}, \frac{8}{493} \sqrt{1353}e^{13}, \frac{2}{493} \sqrt{32226}e^{24},$ $\frac{6}{493} \sqrt{1763}e^{14} + \frac{82}{493} \sqrt{6}e^{26} + \frac{8}{493} \sqrt{1353}e^{35}$	$(\frac{98}{493}, -\frac{35}{493}, \frac{141}{493}, -\frac{70}{493}, -\frac{113}{493}, \frac{63}{493}, \frac{239}{493}, -\frac{105}{493}, \frac{28}{493})$ $+ \frac{2}{493} \sqrt{52890}e^3 \otimes e_8$	{123469, 145789, 23457, 468}
941:150	$0, 0, 0, 0, 0, \frac{12}{2039} \sqrt{9545}e^{12}, \frac{12}{2039} \sqrt{16951}e^{13}, \frac{24}{2039} \sqrt{4715}e^{24},$ $\frac{12}{2039} \sqrt{46}e^{15} + \frac{12}{2039} \sqrt{5773}e^{26} + \frac{84}{2039} \sqrt{115}e^{34}$	$(-\frac{10}{2039}, \frac{156}{2039}, \frac{1057}{2039}, -\frac{755}{2039}, \frac{312}{2039}, \frac{146}{2039}, \frac{1047}{2039}, -\frac{599}{2039}, \frac{302}{2039})$ $+ \frac{12}{2039} \sqrt{39767}e^3 \otimes e_8$	{1359, 145789, 23457, 258}
941:150	$0, 0, 0, 0, 0, \frac{4}{1843} \sqrt{84119}e^{12}, \frac{4}{1843} \sqrt{13002}e^{13}, \frac{2}{1843} \sqrt{518110}e^{24},$ $\frac{2}{1843} \sqrt{500774}e^{15} + \frac{394}{1843} \sqrt{6}e^{26} + \frac{6}{1843} \sqrt{28762}e^{34}$	$(-\frac{393}{1843}, \frac{286}{1843}, \frac{681}{1843}, -\frac{502}{1843}, \frac{572}{1843}, -\frac{107}{1843}, \frac{288}{1843}, -\frac{216}{1843}, \frac{179}{1843})$ $+ \frac{2}{1843} \sqrt{664678}e^5 \otimes e_8$	{126789, 13489, 2378, 468}
941:150	$0, 0, 0, 0, 0, \frac{1}{494} \sqrt{140070}e^{12}, \frac{1}{247} \sqrt{42195}e^{13}, \frac{1}{494} \sqrt{123105}e^{24},$ $\frac{1}{247} \sqrt{47415}e^{15} + \frac{6}{247} \sqrt{290}e^{26} + \frac{145}{494} \sqrt{6}e^{34}$	$(-\frac{19}{52}, \frac{69}{247}, \frac{43}{988}, \frac{37}{247}, \frac{138}{247}, -\frac{85}{988}, -\frac{159}{494}, \frac{106}{247}, \frac{191}{988})$ $+ \frac{11}{494} \sqrt{3045}e^5 \otimes e_7$	{126789, 179, 2378, 367}
941:150	$0, 0, 0, 0, 0, \frac{1}{341} \sqrt{11470}e^{12}, \frac{2}{341} \sqrt{10545}e^{13}, \frac{1}{341} \sqrt{66230}e^{24},$ $\frac{1}{341} \sqrt{52170}e^{15} + \frac{6}{341} \sqrt{555}e^{26} + \frac{37}{341} \sqrt{30}e^{34}$	$(\frac{117}{341}, -\frac{47}{341}, \frac{4}{31}, -\frac{21}{341}, -\frac{94}{341}, \frac{70}{341}, \frac{161}{341}, -\frac{68}{341}, \frac{23}{341})$ $+ \frac{14}{341} \sqrt{555}e^1 \otimes e_8$	{123469, 179, 2378, 468}
941:150	$0, 0, 0, 0, 0, \frac{1}{1265} \sqrt{2910}e^{12}, \frac{2}{1265} \sqrt{1185}e^{13}, \frac{1}{1265} \sqrt{5590}e^{24},$ $\frac{1}{1265} \sqrt{5770}e^{15} + \frac{2}{1265} \sqrt{515}e^{26} + \frac{1}{1265} \sqrt{4430}e^{34}$	$(-\frac{1}{55}, \frac{13}{1265}, \frac{4}{115}, -\frac{41}{1265}, \frac{26}{1265}, -\frac{2}{253}, \frac{21}{1265}, -\frac{28}{1265}, \frac{3}{1265})$ $+ \frac{2}{1265} \sqrt{1655}e^1 \otimes e_8 + \frac{4}{1265} \sqrt{330}e^5 \otimes e_7$	{179, 2378}
941:150	$0, 0, 0, 0, 0, \frac{207}{6289} \sqrt{42}e^{12}, \frac{46}{6289} \sqrt{1174}e^{13}, \frac{23}{6289} \sqrt{786}e^{24},$ $\frac{23}{6289} \sqrt{3110}e^{15} + \frac{23}{6289} \sqrt{4042}e^{26} + \frac{23}{6289} \sqrt{1802}e^{34}$	$(\frac{299}{6289}, -\frac{115}{6289}, -\frac{943}{6289}, \frac{1012}{6289}, -\frac{230}{6289}, \frac{184}{6289}, -\frac{644}{6289}, \frac{897}{6289}, \frac{69}{6289})$ $+ \frac{23}{6289} \sqrt{4578}e^1 \otimes e_5 + \frac{92}{6289} \sqrt{437}e^2 \otimes e_7$	{2456, 357}
941:150	$0, 0, 0, 0, 0, \frac{8}{905} \sqrt{447}e^{12}, \frac{8}{905} \sqrt{969}e^{13}, \frac{8}{905} \sqrt{1338}e^{24},$ $\frac{144}{905} \sqrt{2}e^{15} + \frac{24}{905} \sqrt{51}e^{26} + \frac{8}{905} \sqrt{393}e^{34}$	$(\frac{148}{905}, -\frac{72}{905}, -\frac{24}{181}, \frac{124}{905}, -\frac{144}{905}, \frac{76}{905}, \frac{28}{905}, \frac{52}{905}, \frac{4}{905})$ $- \frac{8}{905} \sqrt{1101}e^4 \otimes e_7 + \frac{8}{905} \sqrt{1398}e^1 \otimes e_8$	{123469, 179, 2378, 468}
941:150	$0, 0, 0, 0, 0, \frac{8}{905} \sqrt{447}e^{12}, \frac{8}{905} \sqrt{969}e^{13}, \frac{8}{905} \sqrt{1338}e^{24},$ $\frac{144}{905} \sqrt{2}e^{15} + \frac{24}{905} \sqrt{51}e^{26} + \frac{8}{905} \sqrt{393}e^{34}$	$(\frac{148}{905}, -\frac{72}{905}, -\frac{24}{181}, \frac{124}{905}, -\frac{144}{905}, \frac{76}{905}, \frac{28}{905}, \frac{52}{905}, \frac{4}{905})$ $+ \frac{8}{905} \sqrt{1101}e^4 \otimes e_7 + \frac{8}{905} \sqrt{1398}e^1 \otimes e_8$	{123469, 179, 2378, 468}
941:150	$0, 0, 0, 0, 0, \frac{13}{1775} \sqrt{3162}e^{12}, \frac{26}{1775} \sqrt{1038}e^{13}, \frac{26}{1775} \sqrt{957}e^{24},$ $\frac{13}{1775} \sqrt{2370}e^{15} + \frac{156}{1775} \sqrt{10}e^{26} + \frac{169}{1775} \sqrt{6}e^{34}$	$(-\frac{416}{1775}, \frac{273}{1775}, \frac{91}{355}, -\frac{13}{71}, \frac{546}{1775}, -\frac{143}{1775}, \frac{39}{1775}, -\frac{52}{1775}, \frac{26}{355})$ $+ \frac{13}{1775} \sqrt{4782}e^5 \otimes e_7 + \frac{78}{1775} \sqrt{139}e^3 \otimes e_8$	{126789, 367}
941:150	$0, 0, 0, 0, 0, \frac{1}{27} \sqrt{23}e^{12}, \frac{1}{9} \sqrt{23}e^{13}, \frac{1}{18} \sqrt{46}e^{24},$ $\frac{1}{27} \sqrt{69}e^{15} + \frac{1}{54} \sqrt{23}e^{26} + \frac{1}{27} \sqrt{46}e^{34}$	$(\frac{13}{54}, -\frac{5}{54}, \frac{7}{36}, -\frac{5}{36}, -\frac{5}{27}, \frac{4}{27}, \frac{47}{108}, -\frac{25}{108}, \frac{1}{18})$ $+ \frac{1}{18} \sqrt{138}e^3 \otimes e_8 + \frac{1}{54} \sqrt{989}e^1 \otimes e_5$	{1234, 1278}
941:150	$0, 0, 0, 0, 0, \frac{18}{535} \sqrt{6}e^{12}, \frac{108}{535} \sqrt{3}e^{13}, \frac{9}{535} \sqrt{314}e^{24},$ $\frac{9}{535} \sqrt{154}e^{15} + \frac{18}{107} \sqrt{2}e^{26} + \frac{36}{535} \sqrt{6}e^{34}$	$(-\frac{102}{535}, \frac{63}{535}, \frac{84}{535}, -\frac{12}{107}, \frac{126}{535}, -\frac{39}{535}, -\frac{18}{535}, \frac{3}{535}, \frac{24}{535})$ $+ \frac{9}{535} \sqrt{406}e^3 \otimes e_8 + \frac{9}{535} \sqrt{566}e^2 \otimes e_7$	{123459, 357}
941:150	$0, 0, 0, 0, 0, \frac{11}{1073} \sqrt{839}e^{12}, \frac{99}{1073} \sqrt{5}e^{13}, \frac{11}{1073} \sqrt{1315}e^{24},$ $\frac{11}{1073} \sqrt{917}e^{15} + \frac{264}{1073} e^{26} + \frac{88}{1073} \sqrt{6}e^{34}$	$(-\frac{363}{2146}, \frac{110}{1073}, \frac{99}{2146}, -\frac{11}{1073}, \frac{220}{1073}, -\frac{143}{2146}, -\frac{132}{1073}, \frac{99}{1073}, \frac{77}{2146})$ $+ \frac{11}{1073} \sqrt{1237}e^5 \otimes e_8 - \frac{11}{1073} \sqrt{789}e^4 \otimes e_7$	{126789, 13489, 2378, 468}
941:150	$0, 0, 0, 0, 0, \frac{11}{1073} \sqrt{839}e^{12}, \frac{99}{1073} \sqrt{5}e^{13}, \frac{11}{1073} \sqrt{1315}e^{24},$ $\frac{11}{1073} \sqrt{917}e^{15} + \frac{264}{1073} e^{26} + \frac{88}{1073} \sqrt{6}e^{34}$	$(-\frac{363}{2146}, \frac{110}{1073}, \frac{99}{2146}, -\frac{11}{1073}, \frac{220}{1073}, -\frac{143}{2146}, -\frac{132}{1073}, \frac{99}{1073}, \frac{77}{2146})$ $+ \frac{11}{1073} \sqrt{1237}e^5 \otimes e_8 + \frac{11}{1073} \sqrt{789}e^4 \otimes e_7$	{126789, 13489, 2378, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:150	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{23}e^{12}, \frac{1}{9}\sqrt{23}e^{13}, \frac{1}{18}\sqrt{46}e^{24},$ $\frac{1}{27}\sqrt{69}e^{15} + \frac{1}{54}\sqrt{23}e^{26} + \frac{1}{27}\sqrt{46}e^{34}$	$(\frac{13}{54}, -\frac{5}{54}, -\frac{11}{36}, \frac{13}{36}, -\frac{5}{27}, \frac{4}{27}, -\frac{7}{108}, \frac{29}{108}, \frac{1}{18})$ $-\frac{1}{18}\sqrt{138}e^4 \otimes e_7 + \frac{1}{54}\sqrt{989}e^1 \otimes e_5$	{1234, 1278, 13468, 167}
941:150	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{23}e^{12}, \frac{1}{9}\sqrt{23}e^{13}, \frac{1}{18}\sqrt{46}e^{24},$ $\frac{1}{27}\sqrt{69}e^{15} + \frac{1}{54}\sqrt{23}e^{26} + \frac{1}{27}\sqrt{46}e^{34}$	$(\frac{13}{54}, -\frac{5}{54}, -\frac{11}{36}, \frac{13}{36}, -\frac{5}{27}, \frac{4}{27}, -\frac{7}{108}, \frac{29}{108}, \frac{1}{18})$ $+\frac{1}{18}\sqrt{138}e^4 \otimes e_7 + \frac{1}{54}\sqrt{989}e^1 \otimes e_5$	{1234, 1278, 13468, 167}
941:150	$0, 0, 0, 0, 0, \frac{23}{513}\sqrt{362}e^{12}, \frac{92}{171}\sqrt{2}e^{13}, \frac{23}{18}\sqrt{14}e^{24},$ $\frac{23}{513}\sqrt{222}e^{15} + \frac{23}{513}\sqrt{166}e^{26} + \frac{23}{513}\sqrt{22}e^{34}$	$(\frac{299}{513}, -\frac{115}{513}, -\frac{23}{171}, \frac{46}{171}, -\frac{230}{513}, \frac{184}{513}, \frac{230}{513}, \frac{23}{513}, \frac{23}{171})$ $+\frac{23}{513}\sqrt{854}e^1 \otimes e_5$	{2345678, 256, 3457, 58}
941:150	$0, 0, 0, 0, 0, \frac{8}{99}\sqrt{30}e^{12}, \frac{4}{99}\sqrt{246}e^{13}, \frac{8}{99}\sqrt{30}e^{24},$ $\frac{8}{99}\sqrt{33}e^{15} + \frac{4}{99}\sqrt{246}e^{26} + \frac{8}{99}\sqrt{33}e^{34}$	$(-\frac{25}{99}, \frac{2}{11}, -\frac{5}{99}, \frac{16}{99}, \frac{4}{11}, -\frac{7}{99}, -\frac{10}{33}, \frac{34}{99}, \frac{1}{9})$ $+\frac{4}{99}\sqrt{510}e^2 \otimes e_7$	{123459, 15679, 2456, 357}
941:150	$0, 0, 0, 0, 0, \frac{1}{5011}\sqrt{518}e^{12}, \frac{2}{5011}\sqrt{969}e^{13}, \frac{4}{5011}\sqrt{233}e^{24},$ $\frac{12}{5011}\sqrt{6}e^{15} + \frac{2}{5011}\sqrt{327}e^{26} + \frac{6}{5011}\sqrt{83}e^{34}$	$(\frac{24}{5011}, -\frac{13}{5011}, -\frac{38}{5011}, \frac{36}{5011}, -\frac{26}{5011}, \frac{11}{5011}, -\frac{14}{5011}, \frac{23}{5011}, -\frac{2}{5011})$ $+\frac{1}{5011}\sqrt{4494}e^1 \otimes e_8 + \frac{6}{5011}\sqrt{131}e^2 \otimes e_7$	{12349, 1679}
941:151	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170}e^{12}, \frac{8}{311}\sqrt{555}e^{13},$ $\frac{2}{311}\sqrt{15910}e^{14} + \frac{1}{311}\sqrt{32930}e^{25}, \frac{1}{311}\sqrt{7770}e^{16} + \frac{2}{311}\sqrt{15910}e^{23}$	$(-\frac{20}{311}, -\frac{6}{311}, -\frac{40}{311}, \frac{139}{311}, \frac{125}{311}, -\frac{26}{311}, -\frac{60}{311}, \frac{119}{311}, -\frac{46}{311})$ $+\frac{5}{311}\sqrt{4070}e^4 \otimes e_9$	{123467, 13789, 23458, 3569}
941:151	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{102}e^{12}, \frac{2}{85}\sqrt{57}e^{13}, \frac{1}{85}\sqrt{222}e^{14} + \frac{3}{85}\sqrt{22}e^{25},$ $\frac{2}{85}\sqrt{42}e^{16} + \frac{1}{85}\sqrt{222}e^{23}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, -\frac{1}{85}, \frac{9}{85}, -\frac{6}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{4}{85})$ $+\frac{1}{85}\sqrt{222}e^5 \otimes e_7 + \frac{1}{85}\sqrt{258}e^1 \otimes e_4$	{12359, 347}
941:151	$0, 0, 0, 0, 0, \frac{19}{1345}\sqrt{573}e^{14} + \frac{38}{1345}\sqrt{239}e^{25}, \frac{38}{1345}\sqrt{115}e^{16} + \frac{38}{1345}\sqrt{59}e^{23}$	$(-\frac{19}{269}, \frac{76}{1345}, -\frac{38}{269}, \frac{418}{1345}, \frac{247}{1345}, -\frac{19}{1345}, -\frac{57}{269}, \frac{323}{1345}, -\frac{114}{1345})$ $+\frac{19}{1345}\sqrt{1187}e^5 \otimes e_9 + \frac{38}{1345}\sqrt{310}e^2 \otimes e_7$	{145678, 2689}
941:151	$0, 0, 0, 0, 0, \frac{2}{79}\sqrt{665}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{2590}e^{14} + \frac{5}{79}\sqrt{42}e^{25},$ $\frac{1}{79}\sqrt{3010}e^{16} + \frac{1}{79}\sqrt{2590}e^{23}$	$(\frac{11}{79}, -\frac{7}{79}, \frac{22}{79}, -\frac{24}{79}, -\frac{6}{79}, \frac{4}{79}, \frac{33}{79}, -\frac{13}{79}, \frac{15}{79})$ $+\frac{70}{79}e^1 \otimes e_4$	{12359, 136, 2345679, 347}
941:151	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{39}e^{12}, \frac{2}{85}\sqrt{57}e^{13}, \frac{6}{85}e^{14} + \frac{3}{85}\sqrt{22}e^{25},$ $\frac{3}{85}\sqrt{10}e^{16} + \frac{6}{85}e^{23}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, -\frac{1}{85}, \frac{9}{85}, -\frac{6}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{4}{85})$ $+\frac{1}{85}\sqrt{222}e^5 \otimes e_7 + \frac{1}{85}\sqrt{258}e^3 \otimes e_8$	{126789, 4568}
941:151	$0, 0, 0, 0, 0, \frac{11}{41}\sqrt{2}e^{12}, \frac{11}{205}\sqrt{46}e^{13}, \frac{44}{205}\sqrt{2}e^{14} + \frac{11}{205}\sqrt{74}e^{25},$ $\frac{11}{205}\sqrt{42}e^{16} + \frac{11}{205}\sqrt{46}e^{23}$	$(-\frac{11}{205}, -\frac{11}{205}, -\frac{22}{205}, \frac{88}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{33}{205}, \frac{77}{205}, -\frac{33}{205})$ $+\frac{11}{205}\sqrt{202}e^5 \otimes e_9 + \frac{44}{205}\sqrt{10}e^4 \otimes e_7$	{123456, 1349, 2357, 3679}
941:151	$0, 0, 0, 0, 0, \frac{11}{41}\sqrt{2}e^{12}, \frac{11}{205}\sqrt{46}e^{13}, \frac{44}{205}\sqrt{2}e^{14} + \frac{11}{205}\sqrt{74}e^{25},$ $\frac{11}{205}\sqrt{42}e^{16} + \frac{11}{205}\sqrt{46}e^{23}$	$(-\frac{11}{205}, -\frac{11}{205}, -\frac{22}{205}, \frac{88}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{33}{205}, \frac{77}{205}, -\frac{33}{205})$ $-\frac{11}{205}\sqrt{202}e^5 \otimes e_9 + \frac{44}{205}\sqrt{10}e^4 \otimes e_7$	{123456, 1349, 2357, 3679}
941:151	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{2}{25}\sqrt{33}e^{14} + \frac{2}{25}\sqrt{6}e^{25},$ $\frac{6}{25}\sqrt{3}e^{16} + \frac{2}{25}\sqrt{42}e^{23}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{6}{25})$ $+\frac{16}{25}e^3 \otimes e_8 + \frac{6}{25}\sqrt{3}e^2 \otimes e_5$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5}e^{12}, \frac{2}{25}\sqrt{15}e^{13}, \frac{2}{25}\sqrt{33}e^{14} + \frac{2}{25}\sqrt{6}e^{25},$ $\frac{6}{25}\sqrt{3}e^{16} + \frac{2}{25}\sqrt{42}e^{23}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{6}{25}, -\frac{4}{25}, \frac{6}{25})$ $-\frac{16}{25}e^3 \otimes e_8 + \frac{6}{25}\sqrt{3}e^2 \otimes e_5$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{266}e^{12}, \frac{3}{365}\sqrt{26}e^{13}, \frac{2}{365}\sqrt{79}e^{14} + \frac{2}{365}\sqrt{15}e^{25},$ $\frac{1}{365}\sqrt{246}e^{16} + \frac{4}{365}\sqrt{14}e^{23}$	$(-\frac{1}{365}, \frac{9}{365}, -\frac{2}{365}, -\frac{2}{365}, -\frac{12}{365}, \frac{8}{365}, -\frac{3}{365}, -\frac{3}{365}, \frac{7}{365})$ $+\frac{1}{365}\sqrt{418}e^3 \otimes e_8 + \frac{2}{365}\sqrt{69}e^4 \otimes e_7$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{266}e^{12}, \frac{3}{365}\sqrt{26}e^{13}, \frac{2}{365}\sqrt{79}e^{14} + \frac{2}{365}\sqrt{15}e^{25},$ $\frac{1}{365}\sqrt{246}e^{16} + \frac{4}{365}\sqrt{14}e^{23}$	$(-\frac{1}{365}, \frac{9}{365}, -\frac{2}{365}, -\frac{2}{365}, -\frac{12}{365}, \frac{8}{365}, -\frac{3}{365}, -\frac{3}{365}, \frac{7}{365})$ $+\frac{1}{365}\sqrt{418}e^3 \otimes e_8 - \frac{2}{365}\sqrt{69}e^4 \otimes e_7$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{2}{2021}\sqrt{267915}e^{12}, \frac{52}{2021}\sqrt{795}e^{13},$ $\frac{6}{2021}\sqrt{40015}e^{14} + \frac{90}{2021}\sqrt{265}e^{25}, \frac{6}{2021}\sqrt{265}e^{16} + \frac{8}{2021}\sqrt{5565}e^{23}$	$(-\frac{231}{2021}, \frac{897}{2021}, -\frac{462}{2021}, \frac{779}{2021}, -\frac{349}{2021}, \frac{666}{2021}, -\frac{693}{2021}, \frac{548}{2021}, \frac{435}{2021})$ $+\frac{30}{2021}\sqrt{5989}e^2 \otimes e_7$	{12348, 1235, 3479, 35789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:151	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{215}e^{12}, \frac{2}{119}\sqrt{195}e^{13}, \frac{2}{119}\sqrt{235}e^{14} + \frac{10}{119}\sqrt{6}e^{25},$ $\frac{2}{119}\sqrt{190}e^{16} + \frac{8}{119}\sqrt{10}e^{23}$	$(\frac{1}{119}, \frac{13}{119}, \frac{2}{119}, -\frac{9}{119}, -\frac{3}{17}, \frac{2}{17}, \frac{3}{119}, -\frac{8}{119}, \frac{15}{119})$ $+ \frac{10}{119}\sqrt{13}e^1 \otimes e_4 + \frac{30}{119}e^2 \otimes e_7$	{12359, 347}
941:151	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{555}e^{12}, \frac{10}{119}\sqrt{57}e^{13}, \frac{2}{119}\sqrt{705}e^{14} + \frac{6}{119}\sqrt{170}e^{25},$ $\frac{6}{119}\sqrt{35}e^{16} + \frac{2}{119}\sqrt{2730}e^{23}$	$(-\frac{2}{119}, \frac{62}{119}, -\frac{4}{119}, \frac{6}{119}, -\frac{58}{119}, \frac{60}{119}, -\frac{6}{119}, \frac{4}{119}, \frac{58}{119})$ $+ \frac{90}{119}\sqrt{3}e^2 \otimes e_5$	{12347, 1345679, 236, 359}
941:151	$0, 0, 0, 0, 0, \frac{10}{119}\sqrt{57}e^{12}, \frac{4}{119}\sqrt{555}e^{13}, \frac{2}{119}\sqrt{2730}e^{14} + \frac{6}{119}\sqrt{35}e^{25},$ $\frac{6}{119}\sqrt{170}e^{16} + \frac{2}{119}\sqrt{705}e^{23}$	$(-\frac{31}{238}, \frac{5}{17}, -\frac{31}{119}, \frac{21}{34}, \frac{23}{119}, \frac{39}{238}, -\frac{93}{238}, \frac{58}{119}, \frac{4}{119})$ $+ \frac{90}{119}\sqrt{3}e^4 \otimes e_7$	{1256789, 178, 24589, 468}
941:151	$0, 0, 0, 0, 0, \frac{8}{155}\sqrt{7}e^{12}, \frac{4}{155}\sqrt{183}e^{13}, \frac{4}{155}\sqrt{239}e^{14} + \frac{4}{155}\sqrt{182}e^{25},$ $\frac{4}{155}\sqrt{3}e^{16} + \frac{4}{155}\sqrt{318}e^{23}$	$(-\frac{12}{155}, \frac{28}{155}, -\frac{24}{155}, \frac{36}{155}, -\frac{4}{155}, \frac{16}{155}, -\frac{36}{155}, \frac{24}{155}, \frac{4}{155})$ $+ \frac{4}{155}\sqrt{237}e^2 \otimes e_5 + \frac{8}{155}\sqrt{86}e^4 \otimes e_9$	{1456, 2679}
941:151	$0, 0, 0, 0, 0, \frac{64}{1139}\sqrt{5}e^{12}, \frac{32}{1139}\sqrt{66}e^{13}, \frac{32}{1139}\sqrt{282}e^{14} + \frac{32}{1139}\sqrt{53}e^{25},$ $\frac{32}{1139}\sqrt{39}e^{16} + \frac{32}{1139}\sqrt{413}e^{23}$	$(-\frac{112}{1139}, \frac{176}{1139}, -\frac{224}{1139}, \frac{464}{1139}, \frac{176}{1139}, \frac{64}{1139}, -\frac{336}{1139}, \frac{352}{1139}, -\frac{48}{1139})$ $+ \frac{32}{1139}\sqrt{393}e^2 \otimes e_7 + \frac{32}{1139}\sqrt{623}e^4 \otimes e_9$	{13789, 23458}
941:151	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{39}e^{12}, \frac{1}{85}\sqrt{6}e^{13}, \frac{1}{85}\sqrt{258}e^{14} + \frac{2}{85}\sqrt{6}e^{25},$ $\frac{3}{85}\sqrt{10}e^{16} + \frac{1}{85}\sqrt{258}e^{23}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, -\frac{1}{85}, \frac{9}{85}, -\frac{6}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{4}{85})$ $+ \frac{1}{85}\sqrt{222}e^4 \otimes e_9 + \frac{1}{85}\sqrt{258}e^3 \otimes e_8$	{1256789, 468}
941:151	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{25},$ $\frac{3}{10}\sqrt{2}e^{16} + \frac{1}{10}\sqrt{30}e^{23}$	$(-\frac{1}{10}, \frac{2}{5}, -\frac{1}{5}, \frac{3}{10}, -\frac{1}{5}, \frac{3}{10}, -\frac{3}{10}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{6}e^2 \otimes e_5 - \frac{3}{10}\sqrt{6}e^4 \otimes e_7$	{1234, 134569, 2367, 3579}
941:151	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{12}, \frac{1}{10}\sqrt{6}e^{13}, \frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{25},$ $\frac{3}{10}\sqrt{2}e^{16} + \frac{1}{10}\sqrt{30}e^{23}$	$(-\frac{1}{10}, \frac{2}{5}, -\frac{1}{5}, \frac{3}{10}, -\frac{1}{5}, \frac{3}{10}, -\frac{3}{10}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{6}e^2 \otimes e_5 + \frac{3}{10}\sqrt{6}e^4 \otimes e_7$	{1234, 134569, 2367, 3579}
941:151	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{110}e^{12}, \frac{2}{119}\sqrt{195}e^{13}, \frac{6}{119}\sqrt{10}e^{14} + \frac{10}{119}\sqrt{6}e^{25},$ $\frac{6}{119}\sqrt{15}e^{16} + \frac{2}{119}\sqrt{165}e^{23}$	$(\frac{1}{119}, \frac{13}{119}, \frac{2}{119}, -\frac{9}{119}, -\frac{3}{17}, \frac{2}{17}, \frac{3}{119}, -\frac{8}{119}, \frac{15}{119})$ $+ \frac{10}{119}\sqrt{13}e^3 \otimes e_8 + \frac{30}{119}e^2 \otimes e_7$	{1578, 2489}
941:151	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{42}e^{13}, \frac{2}{25}\sqrt{42}e^{14} + \frac{3}{25}\sqrt{42}e^{25},$ $\frac{3}{25}\sqrt{42}e^{16} + \frac{3}{25}\sqrt{14}e^{23}$	$(\frac{1}{25}, -\frac{7}{25}, \frac{2}{25}, \frac{8}{25}, \frac{16}{25}, -\frac{6}{25}, \frac{3}{25}, \frac{9}{25}, -\frac{1}{5})$ $+ \frac{21}{25}\sqrt{2}e^5 \otimes e_9$	{123567, 1379, 2345, 3469}
941:151	$0, 0, 0, 0, 0, \frac{8}{79}\sqrt{35}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{2310}e^{14} + \frac{5}{79}\sqrt{42}e^{25},$ $\frac{3}{79}\sqrt{210}e^{16} + \frac{1}{79}\sqrt{2310}e^{23}$	$(\frac{11}{79}, -\frac{7}{79}, \frac{22}{79}, -\frac{24}{79}, -\frac{6}{79}, \frac{4}{79}, \frac{33}{79}, -\frac{13}{79}, \frac{15}{79})$ $+ \frac{70}{79}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{1}{35}\sqrt{2}e^{14} + \frac{3}{35}\sqrt{14}e^{25},$ $\frac{1}{35}\sqrt{42}e^{16} + \frac{1}{35}\sqrt{154}e^{23}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $- \frac{2}{35}\sqrt{42}e^5 \otimes e_9 + \frac{3}{35}\sqrt{70}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{1}{35}\sqrt{2}e^{14} + \frac{3}{35}\sqrt{14}e^{25},$ $\frac{1}{35}\sqrt{42}e^{16} + \frac{1}{35}\sqrt{154}e^{23}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{2}{35}\sqrt{42}e^5 \otimes e_9 + \frac{3}{35}\sqrt{70}e^3 \otimes e_8$	{126789, 1578, 2489, 4568}
941:151	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170}e^{12}, \frac{1}{311}\sqrt{66230}e^{13},$ $\frac{1}{311}\sqrt{38110}e^{14} + \frac{2}{311}\sqrt{17205}e^{25}, \frac{1}{311}\sqrt{7770}e^{16} + \frac{1}{311}\sqrt{38110}e^{23}$	$(-\frac{20}{311}, -\frac{6}{311}, -\frac{40}{311}, \frac{139}{311}, \frac{125}{311}, -\frac{26}{311}, -\frac{60}{311}, \frac{119}{311}, -\frac{46}{311})$ $+ \frac{5}{311}\sqrt{4070}e^5 \otimes e_7$	{124678, 179, 245, 5689}
941:152	$0, 0, 0, 0, 0, \frac{7}{253}\sqrt{34}e^{12}, \frac{14}{1265}\sqrt{1090}e^{13}, \frac{14}{1265}\sqrt{815}e^{15} + \frac{7}{253}\sqrt{138}e^{24},$ $\frac{28}{1265}\sqrt{230}e^{14} + \frac{7}{1265}\sqrt{2090}e^{26}$	$(\frac{35}{253}, \frac{7}{253}, -\frac{70}{253}, \frac{14}{253}, -\frac{14}{253}, \frac{42}{253}, -\frac{35}{253}, \frac{21}{253}, \frac{49}{253})$ $+ \frac{14}{1265}\sqrt{1205}e^1 \otimes e_5 + \frac{7}{1265}\sqrt{6970}e^4 \otimes e_7$	{179, 3567}
941:152	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{410}e^{12}, \frac{2}{435}\sqrt{1410}e^{13}, \frac{2}{435}\sqrt{195}e^{15} + \frac{1}{435}\sqrt{6330}e^{24},$ $\frac{2}{87}\sqrt{6}e^{14} + \frac{1}{145}\sqrt{230}e^{26}$	$(-\frac{7}{87}, \frac{1}{87}, \frac{2}{29}, \frac{2}{87}, \frac{10}{87}, -\frac{2}{29}, -\frac{1}{87}, \frac{1}{29}, -\frac{5}{87})$ $+ \frac{1}{435}\sqrt{6510}e^4 \otimes e_7 + \frac{2}{435}\sqrt{1455}e^3 \otimes e_8$	{1256789, 3567}
941:152	$0, 0, 0, 0, 0, \frac{1}{644}\sqrt{53295}e^{12}, \frac{1}{644}\sqrt{227766}e^{13},$ $\frac{1}{644}\sqrt{53295}e^{15} + \frac{1}{322}\sqrt{10659}e^{24}, \frac{1}{322}\sqrt{36465}e^{14} + \frac{1}{161}\sqrt{12903}e^{26}$	$(-\frac{19}{92}, \frac{13}{1288}, \frac{63}{92}, \frac{13}{644}, \frac{305}{1288}, -\frac{11}{56}, \frac{11}{23}, \frac{39}{1288}, -\frac{30}{161})$ $+ \frac{11}{92}\sqrt{102}e^3 \otimes e_9$	{1234568, 134, 2489, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:152	$0, 0, 0, 0, 0, \frac{2}{2529}\sqrt{757945e^{12}}, \frac{2}{2529}\sqrt{677210e^{13}},$ $\frac{2}{2529}\sqrt{521765e^{15}} + \frac{2}{2529}\sqrt{161470e^{24}}, \frac{2}{2529}\sqrt{779635e^{14}} + \frac{4}{843}\sqrt{1205e^{26}}$	$(\frac{4}{9}, -\frac{6}{281}, -\frac{157}{2529}, -\frac{12}{281}, -\frac{1286}{2529}, \frac{1070}{2529}, \frac{967}{2529}, -\frac{18}{281}, \frac{1016}{2529})$ $+ \frac{4}{843}\sqrt{71095e^1} \otimes e_5$	{1346, 1467, 34579, 459}
941:152	$0, 0, 0, 0, 0, \frac{8}{1017}\sqrt{33e^{12}}, \frac{4}{1017}\sqrt{1302e^{13}}, \frac{4}{1017}\sqrt{51e^{15}} + \frac{4}{1017}\sqrt{1119e^{24}},$ $\frac{8}{339}\sqrt{26e^{14}} + \frac{4}{339}\sqrt{61e^{26}}$	$(-\frac{68}{1017}, \frac{10}{1017}, \frac{6}{113}, \frac{20}{1017}, \frac{98}{1017}, -\frac{58}{1017}, -\frac{14}{1017}, \frac{10}{339}, -\frac{16}{339})$ $+ \frac{4}{1017}\sqrt{1221e^3} \otimes e_8 + \frac{92}{1017}\sqrt{3e^2} \otimes e_7$	{12349, 1456789}
941:152	$0, 0, 0, 0, 0, \frac{4}{2549}\sqrt{85735e^{12}}, \frac{2}{2549}\sqrt{1057838e^{13}},$ $\frac{40}{2549}\sqrt{2638e^{15}} + \frac{4}{2549}\sqrt{1319e^{24}}, \frac{2}{2549}\sqrt{523643e^{14}} + \frac{2}{2549}\sqrt{361406e^{26}}$	$(-\frac{516}{2549}, \frac{411}{2549}, -\frac{373}{2549}, \frac{822}{2549}, \frac{1749}{2549}, -\frac{105}{2549}, -\frac{889}{2549}, \frac{1233}{2549}, \frac{306}{2549})$ $+ \frac{4}{2549}\sqrt{699070e^5} \otimes e_7$	{12678, 135, 2589, 3679}
941:152	$0, 0, 0, 0, 0, \frac{116}{2455}\sqrt{14e^{12}}, \frac{29}{7365}\sqrt{3622e^{13}},$ $\frac{58}{7365}\sqrt{1393e^{15}} + \frac{29}{2455}\sqrt{506e^{24}}, \frac{29}{7365}\sqrt{4174e^{14}} + \frac{58}{7365}\sqrt{699e^{26}}$	$(-\frac{87}{2455}, \frac{319}{7365}, -\frac{1102}{7365}, \frac{638}{7365}, \frac{406}{2455}, \frac{58}{7365}, -\frac{1363}{7365}, \frac{319}{2455}, \frac{377}{7365})$ $+ \frac{29}{7365}\sqrt{6722e^1} \otimes e_3 + \frac{58}{7365}\sqrt{1778e^5} \otimes e_9$	{1689, 358}
941:152	$0, 0, 0, 0, 0, \frac{62}{5893}\sqrt{781e^{12}}, \frac{124}{5893}\sqrt{259e^{13}},$ $\frac{62}{5893}\sqrt{554e^{15}} + \frac{62}{5893}\sqrt{510e^{24}}, \frac{31}{5893}\sqrt{1554e^{14}} + \frac{31}{5893}\sqrt{2494e^{26}}$	$(\frac{713}{5893}, \frac{155}{5893}, -\frac{1519}{5893}, \frac{310}{5893}, -\frac{248}{5893}, \frac{868}{5893}, -\frac{806}{5893}, \frac{465}{5893}, \frac{1023}{5893})$ $+ \frac{31}{5893}\sqrt{3818e^1} \otimes e_5 + \frac{31}{5893}\sqrt{6862e^2} \otimes e_7$	{12349, 2456}
941:152	$0, 0, 0, 0, 0, \frac{162}{2047}\sqrt{5e^{12}}, \frac{27}{2047}\sqrt{526e^{13}},$ $\frac{9}{2047}\sqrt{1830e^{15}} + \frac{9}{2047}\sqrt{1986e^{24}}, \frac{27}{2047}\sqrt{190e^{14}} + \frac{9}{2047}\sqrt{4002e^{26}}$	$(-\frac{279}{2047}, \frac{72}{2047}, \frac{108}{2047}, \frac{144}{2047}, \frac{495}{2047}, -\frac{89}{2047}, -\frac{171}{2047}, \frac{216}{2047}, -\frac{135}{2047})$ $+ \frac{90}{2047}\sqrt{69e^2} \otimes e_7 + \frac{9}{2047}\sqrt{424e^3} \otimes e_9$	{1456789, 3478}
941:152	$0, 0, 0, 0, 0, \frac{1}{596}\sqrt{111435e^{12}}, \frac{25}{298}\sqrt{69e^{13}},$ $\frac{1}{596}\sqrt{111435e^{15}} + \frac{21}{298}\sqrt{115e^{24}}, \frac{13}{596}\sqrt{690e^{14}} + \frac{3}{298}\sqrt{2530e^{26}}$	$(-\frac{29}{596}, \frac{133}{1192}, -\frac{183}{596}, \frac{133}{596}, \frac{457}{1192}, \frac{75}{1192}, -\frac{53}{149}, \frac{399}{1192}, \frac{26}{149})$ $+ \frac{23}{596}\sqrt{690e^4} \otimes e_7$	{1256789, 179, 2378, 3567}
941:152	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{205e^{12}}, \frac{9}{202}\sqrt{62e^{13}}, \frac{9}{1010}\sqrt{1054e^{15}} + \frac{18}{505}\sqrt{62e^{24}},$ $\frac{9}{505}\sqrt{211e^{14}} + \frac{18}{505}\sqrt{3e^{26}}$	$(-\frac{81}{505}, \frac{9}{505}, \frac{108}{505}, \frac{18}{505}, \frac{108}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $+ \frac{9}{1010}\sqrt{1626e^5} \otimes e_7 + \frac{9}{1010}\sqrt{2122e^3} \otimes e_8$	{12678, 135, 2589, 3679}
941:152	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{205e^{12}}, \frac{9}{202}\sqrt{62e^{13}}, \frac{9}{1010}\sqrt{1054e^{15}} + \frac{18}{505}\sqrt{62e^{24}},$ $\frac{9}{505}\sqrt{211e^{14}} + \frac{18}{505}\sqrt{3e^{26}}$	$(-\frac{81}{505}, \frac{9}{505}, \frac{108}{505}, \frac{18}{505}, \frac{108}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $- \frac{9}{1010}\sqrt{1626e^5} \otimes e_7 + \frac{9}{1010}\sqrt{2122e^3} \otimes e_8$	{12678, 135, 2589, 3679}
941:152	$0, 0, 0, 0, 0, \frac{11}{815}\sqrt{870e^{12}}, \frac{22}{815}\sqrt{222e^{13}}, \frac{22}{815}\sqrt{3e^{15}} + \frac{231}{815}\sqrt{2e^{24}},$ $\frac{22}{815}\sqrt{330e^{14}} + \frac{33}{815}\sqrt{2e^{26}}$	$(-\frac{143}{815}, \frac{77}{815}, -\frac{66}{815}, \frac{154}{815}, \frac{374}{815}, -\frac{66}{815}, -\frac{209}{815}, \frac{231}{815}, \frac{11}{815})$ $+ \frac{11}{815}\sqrt{2634e^4} \otimes e_7 + \frac{462}{815}e^5 \otimes e_9$	{123456, 249}
941:152	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42e^{12}}, \frac{1}{25}\sqrt{77e^{13}}, \frac{1}{25}\sqrt{42e^{15}} + \frac{2}{25}\sqrt{13e^{24}},$ $\frac{1}{25}\sqrt{53e^{14}} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $- \frac{1}{25}\sqrt{107e^4} \otimes e_7 + \frac{1}{25}\sqrt{79e^3} \otimes e_9$	{1256789, 179, 2378, 3567}
941:152	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42e^{12}}, \frac{1}{25}\sqrt{77e^{13}}, \frac{1}{25}\sqrt{42e^{15}} + \frac{2}{25}\sqrt{13e^{24}},$ $\frac{1}{25}\sqrt{53e^{14}} + \frac{2}{25}e^{26}$	$(-\frac{4}{25}, \frac{1}{25}, \frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{107e^4} \otimes e_7 + \frac{1}{25}\sqrt{79e^3} \otimes e_9$	{1256789, 179, 2378, 3567}
941:152	$0, 0, 0, 0, 0, \frac{29}{2461}\sqrt{898e^{12}}, \frac{174}{2461}\sqrt{34e^{13}},$ $\frac{58}{2461}\sqrt{5e^{15}} + \frac{58}{2461}\sqrt{163e^{24}}, \frac{29}{2461}\sqrt{878e^{14}} + \frac{58}{2461}\sqrt{429e^{26}}$	$(-\frac{319}{2461}, \frac{203}{2461}, -\frac{319}{2461}, \frac{406}{2461}, \frac{928}{2461}, -\frac{116}{2461}, -\frac{638}{2461}, \frac{609}{2461}, \frac{87}{2461})$ $+ \frac{29}{2461}\sqrt{3086e^2} \otimes e_7 + \frac{725}{2461}\sqrt{2e^5} \otimes e_9$	{12349, 2456}
941:152	$0, 0, 0, 0, 0, \frac{2}{2573}\sqrt{353958e^{12}}, \frac{2}{2573}\sqrt{553254e^{13}},$ $\frac{2}{2573}\sqrt{223170e^{15}} + \frac{2}{2573}\sqrt{173e^{24}}, \frac{2}{2573}\sqrt{455163e^{14}} + \frac{6}{2573}\sqrt{51554e^{26}}$	$(-\frac{92}{2573}, \frac{229}{2573}, -\frac{717}{2573}, \frac{458}{2573}, \frac{779}{2573}, \frac{137}{2573}, -\frac{809}{2573}, \frac{687}{2573}, \frac{366}{2573})$ $+ \frac{8}{2573}\sqrt{72141e^2} \otimes e_7$	{12349, 1456789, 2456, 3478}
941:152	$0, 0, 0, 0, 0, \frac{34}{605}\sqrt{38e^{12}}, \frac{17}{605}\sqrt{22e^{13}}, \frac{34}{605}\sqrt{97e^{15}} + \frac{17}{605}\sqrt{202e^{24}},$ $\frac{17}{605}\sqrt{118e^{14}} + \frac{34}{605}\sqrt{17e^{26}}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+ \frac{17}{605}\sqrt{618e^1} \otimes e_3 + \frac{34}{605}\sqrt{118e^5} \otimes e_7$	{1259, 358}
941:152	$0, 0, 0, 0, 0, \frac{12}{2501}\sqrt{13490e^{12}}, \frac{6}{2501}\sqrt{98230e^{13}},$ $\frac{12}{2501}\sqrt{12065e^{15}} + \frac{12}{2501}\sqrt{24985e^{24}}, \frac{6}{2501}\sqrt{51395e^{14}} + \frac{18}{2501}\sqrt{570e^{26}}$	$(-\frac{84}{2501}, -\frac{81}{2501}, \frac{1467}{2501}, -\frac{162}{2501}, -\frac{159}{2501}, -\frac{165}{2501}, \frac{1383}{2501}, -\frac{243}{2501}, -\frac{6}{61})$ $+ \frac{12}{2501}\sqrt{51110e^3} \otimes e_8$	{1234569, 14789, 2347, 4568}
941:152	$0, 0, 0, 0, 0, \frac{87}{2249}\sqrt{138e^{12}}, \frac{29}{2249}\sqrt{1234e^{13}},$ $\frac{29}{2249}\sqrt{318e^{15}} + \frac{261}{2249}\sqrt{10e^{24}}, \frac{87}{2249}\sqrt{106e^{14}} + \frac{58}{2249}\sqrt{318e^{26}}$	$(\frac{87}{2249}, \frac{174}{2249}, -\frac{58}{173}, \frac{348}{2249}, \frac{435}{2249}, \frac{261}{2249}, -\frac{667}{2249}, \frac{522}{2249}, \frac{435}{2249})$ $+ \frac{116}{2249}\sqrt{195e^2} \otimes e_7 + \frac{29}{2249}\sqrt{826e^1} \otimes e_3$	{1456789, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:152	$0, 0, 0, 0, 0, \frac{3}{611}\sqrt{20958}e^{12}, \frac{1}{611}\sqrt{156686}e^{13},$ $\frac{3}{611}\sqrt{20958}e^{15} + \frac{1}{611}\sqrt{164670}e^{24}, \frac{1}{611}\sqrt{176646}e^{14} + \frac{4}{611}\sqrt{1497}e^{26}$	$(\frac{213}{611}, \frac{36}{611}, -\frac{22}{47}, \frac{72}{611}, -\frac{105}{611}, \frac{249}{611}, -\frac{73}{611}, \frac{108}{611}, \frac{285}{611})$ $+\frac{1}{611}\sqrt{525946}e^1 \otimes e_3$	{1259, 1689, 236, 358}
941:152	$0, 0, 0, 0, 0, \frac{53}{6885}\sqrt{1454}e^{12}, \frac{53}{6885}\sqrt{4434}e^{13},$ $\frac{106}{6885}\sqrt{353}e^{15} + \frac{53}{6885}\sqrt{590}e^{24}, \frac{53}{6885}\sqrt{510}e^{14} + \frac{53}{6885}\sqrt{2706}e^{26}$	$(-\frac{583}{2295}, \frac{371}{6885}, \frac{106}{405}, \frac{742}{6885}, \frac{106}{255}, -\frac{1378}{6885}, \frac{53}{6885}, \frac{371}{2295}, -\frac{1007}{6885})$ $+\frac{106}{6885}\sqrt{1433}e^5 \otimes e_7 + \frac{53}{6885}\sqrt{6634}e^3 \otimes e_9$	{1345, 24589}
941:152	$0, 0, 0, 0, 0, \frac{9}{905}\sqrt{370}e^{12}, \frac{18}{905}\sqrt{770}e^{13}, \frac{36}{181}e^{15} + \frac{9}{905}\sqrt{2090}e^{24},$ $\frac{18}{905}\sqrt{55}e^{14} + \frac{18}{181}\sqrt{3}e^{26}$	$(\frac{27}{181}, -\frac{9}{181}, \frac{54}{181}, -\frac{18}{181}, -\frac{54}{181}, \frac{18}{181}, \frac{81}{181}, -\frac{27}{181}, \frac{9}{181})$ $+\frac{9}{905}\sqrt{3270}e^1 \otimes e_5 + \frac{9}{905}\sqrt{4810}e^3 \otimes e_8$	{14789, 4568}
941:152	$0, 0, 0, 0, 0, \frac{6}{2489}\sqrt{5555}e^{12}, \frac{6}{2489}\sqrt{40198}e^{13},$ $\frac{6}{2489}\sqrt{102515}e^{15} + \frac{42}{2489}\sqrt{1414}e^{24}, \frac{6}{2489}\sqrt{58883}e^{14} + \frac{72}{2489}\sqrt{606}e^{26}$	$(-\frac{796}{2489}, \frac{226}{2489}, \frac{747}{2489}, \frac{452}{2489}, \frac{1474}{2489}, -\frac{30}{131}, -\frac{49}{2489}, \frac{678}{2489}, -\frac{344}{2489})$ $+\frac{12}{2489}\sqrt{54035}e^5 \otimes e_9$	{13457, 145, 3469, 4679}
941:152	$0, 0, 0, 0, 0, \frac{34}{605}\sqrt{21}e^{12}, \frac{17}{605}\sqrt{214}e^{13}, \frac{34}{605}\sqrt{21}e^{15} + \frac{51}{605}\sqrt{30}e^{24},$ $\frac{17}{605}\sqrt{354}e^{14} + \frac{34}{605}\sqrt{42}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+\frac{17}{605}\sqrt{382}e^1 \otimes e_3 + \frac{34}{605}\sqrt{177}e^4 \otimes e_7$	{1256789, 179, 2378, 3567}
941:152	$0, 0, 0, 0, 0, \frac{34}{605}\sqrt{21}e^{12}, \frac{17}{605}\sqrt{214}e^{13}, \frac{34}{605}\sqrt{21}e^{15} + \frac{51}{605}\sqrt{30}e^{24},$ $\frac{17}{605}\sqrt{354}e^{14} + \frac{34}{605}\sqrt{42}e^{26}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+\frac{17}{605}\sqrt{382}e^1 \otimes e_3 - \frac{34}{605}\sqrt{177}e^4 \otimes e_7$	{1256789, 179, 2378, 3567}
941:152	$0, 0, 0, 0, 0, \frac{47}{7645}\sqrt{1162}e^{12}, \frac{141}{7645}\sqrt{466}e^{13},$ $\frac{188}{7645}\sqrt{139}e^{15} + \frac{47}{7645}\sqrt{1102}e^{24}, \frac{47}{7645}\sqrt{3770}e^{14} + \frac{47}{1529}\sqrt{78}e^{26}$	$(\frac{611}{7645}, -\frac{329}{7645}, \frac{2162}{7645}, -\frac{658}{7645}, -\frac{1598}{7645}, \frac{282}{7645}, \frac{2773}{7645}, -\frac{987}{7645}, -\frac{47}{7645})$ $+\frac{47}{7645}\sqrt{7166}e^3 \otimes e_9 + \frac{94}{7645}\sqrt{1693}e^1 \otimes e_5$	{1279, 23567}
941:153	$0, 0, 0, 0, 0, \frac{13}{1537}\sqrt{19}e^{12}, \frac{13}{53}e^{13}, \frac{13}{1537}\sqrt{907}e^{14} + \frac{26}{1537}\sqrt{257}e^{25},$ $\frac{52}{1537}\sqrt{14}e^{16} + \frac{26}{1537}\sqrt{229}e^{24}$	$(\frac{65}{1537}, -\frac{52}{1537}, -\frac{286}{1537}, \frac{130}{1537}, \frac{247}{1537}, \frac{13}{1537}, -\frac{221}{1537}, \frac{195}{1537}, \frac{78}{1537})$ $+\frac{13}{1537}\sqrt{1253}e^5 \otimes e_9 + \frac{26}{1537}\sqrt{97}e^2 \otimes e_7$	{245, 34679}
941:153	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{266}e^{12}, \frac{1}{365}\sqrt{346}e^{13}, \frac{2}{365}\sqrt{51}e^{14} + \frac{2}{365}\sqrt{15}e^{25},$ $\frac{1}{365}\sqrt{246}e^{16} + \frac{4}{365}\sqrt{14}e^{24}$	$(-\frac{1}{365}, \frac{9}{365}, -\frac{2}{365}, -\frac{2}{365}, -\frac{12}{365}, \frac{8}{365}, \frac{3}{365}, -\frac{3}{365}, \frac{7}{365})$ $-\frac{2}{365}\sqrt{97}e^4 \otimes e_7 + \frac{2}{365}\sqrt{34}e^3 \otimes e_8$	{126789, 1578, 23579, 367}
941:153	$0, 0, 0, 0, 0, \frac{1}{365}\sqrt{266}e^{12}, \frac{1}{365}\sqrt{346}e^{13}, \frac{2}{365}\sqrt{51}e^{14} + \frac{2}{365}\sqrt{15}e^{25},$ $\frac{1}{365}\sqrt{246}e^{16} + \frac{4}{365}\sqrt{14}e^{24}$	$(-\frac{1}{365}, \frac{9}{365}, -\frac{2}{365}, -\frac{2}{365}, -\frac{12}{365}, \frac{8}{365}, -\frac{3}{365}, -\frac{3}{365}, \frac{7}{365})$ $+\frac{2}{365}\sqrt{97}e^4 \otimes e_7 + \frac{2}{365}\sqrt{34}e^3 \otimes e_8$	{126789, 1578, 23579, 367}
941:153	$0, 0, 0, 0, 0, \frac{6}{25}\sqrt{3}e^{12}, \frac{2}{25}\sqrt{33}e^{13}, \frac{6}{25}e^{14} + \frac{2}{25}\sqrt{6}e^{25},$ $\frac{2}{25}\sqrt{14}e^{16} + \frac{2}{25}\sqrt{42}e^{24}$	$(\frac{2}{25}, -\frac{3}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{1}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{1}{25})$ $+\frac{2}{25}\sqrt{33}e^5 \otimes e_9 + \frac{2}{25}\sqrt{58}e^4 \otimes e_7$	{126789, 1578}
941:153	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{2795}e^{12}, \frac{2}{89}\sqrt{946}e^{13}, \frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{25},$ $\frac{6}{89}\sqrt{86}e^{16} + \frac{1}{89}\sqrt{4085}e^{24}$	$(\frac{8}{89}, \frac{9}{178}, -\frac{35}{89}, \frac{16}{89}, \frac{39}{178}, \frac{25}{178}, -\frac{27}{89}, \frac{24}{89}, \frac{41}{178})$ $+\frac{4}{89}\sqrt{430}e^4 \otimes e_7$	{1256789, 178, 2379, 3567}
941:153	$0, 0, 0, 0, 0, \frac{44}{205}\sqrt{2}e^{12}, \frac{11}{205}\sqrt{106}e^{13}, \frac{11}{205}\sqrt{46}e^{14} + \frac{11}{205}\sqrt{74}e^{25},$ $\frac{11}{41}\sqrt{2}e^{16} + \frac{11}{205}\sqrt{46}e^{24}$	$(-\frac{11}{205}, \frac{44}{205}, \frac{88}{205}, -\frac{22}{205}, -\frac{77}{205}, \frac{33}{205}, \frac{77}{205}, -\frac{33}{205}, \frac{22}{205})$ $+\frac{33}{205}\sqrt{26}e^3 \otimes e_8 + \frac{88}{205}\sqrt{2}e^2 \otimes e_5$	{126789, 1578}
941:153	$0, 0, 0, 0, 0, \frac{12}{2309}\sqrt{8930}e^{12}, \frac{132}{2309}\sqrt{190}e^{13},$ $\frac{6}{2309}\sqrt{50635}e^{14} + \frac{36}{2309}\sqrt{285}e^{25}, \frac{6}{2309}\sqrt{29830}e^{16} + \frac{12}{2309}\sqrt{22135}e^{24}$	$(-\frac{26}{2309}, -\frac{317}{2309}, \frac{1341}{2309}, -\frac{52}{2309}, \frac{239}{2309}, -\frac{343}{2309}, \frac{1315}{2309}, -\frac{78}{2309}, -\frac{369}{2309})$ $+\frac{18}{2309}\sqrt{20710}e^3 \otimes e_9$	{123468, 145789, 23457, 469}
941:153	$0, 0, 0, 0, 0, \frac{24}{1121}\sqrt{5}e^{12}, \frac{12}{1121}\sqrt{170}e^{13}, \frac{8}{1121}\sqrt{246}e^{14} + \frac{12}{1121}\sqrt{65}e^{25},$ $\frac{12}{1121}\sqrt{7}e^{16} + \frac{4}{1121}\sqrt{1335}e^{24}$	$(-\frac{16}{1121}, \frac{62}{1121}, \frac{54}{1121}, -\frac{32}{1121}, -\frac{110}{1121}, \frac{46}{1121}, \frac{2}{59}, -\frac{48}{1121}, \frac{30}{1121})$ $+\frac{4}{1121}\sqrt{1437}e^3 \otimes e_9 + \frac{4}{1121}\sqrt{1671}e^2 \otimes e_7$	{289, 35678}
941:153	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{58}e^{12}, \frac{5}{47}\sqrt{2}e^{13}, \frac{10}{47}\sqrt{5}e^{14} + \frac{5}{47}\sqrt{22}e^{25},$ $\frac{5}{47}\sqrt{2}e^{16} + \frac{5}{47}\sqrt{58}e^{24}$	$(-\frac{1}{47}, \frac{1}{2}, \frac{8}{47}, -\frac{2}{47}, -\frac{53}{94}, \frac{45}{94}, \frac{7}{47}, -\frac{3}{47}, \frac{43}{94})$ $+\frac{5}{47}\sqrt{158}e^2 \otimes e_5$	{2346, 2467, 3459, 4579}
941:153	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{627}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{1}{73}\sqrt{1995}e^{14} + \frac{9}{73}\sqrt{38}e^{25},$ $\frac{12}{73}\sqrt{19}e^{16} + \frac{3}{73}\sqrt{190}e^{24}$	$(\frac{7}{73}, -\frac{25}{73}, \frac{8}{73}, \frac{14}{73}, \frac{46}{73}, -\frac{18}{73}, \frac{15}{73}, \frac{21}{73}, -\frac{11}{73})$ $+\frac{3}{73}\sqrt{779}e^5 \otimes e_9$	{23457, 245, 34679, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:153	$0, 0, 0, 0, 0, \frac{6}{133}\sqrt{170}e^{12}, \frac{6}{133}\sqrt{374}e^{13}, \frac{10}{133}\sqrt{51}e^{14} + \frac{12}{133}\sqrt{85}e^{25},$ $\frac{2}{133}\sqrt{510}e^{16} + \frac{4}{133}\sqrt{102}e^{24}$	$(\frac{18}{133}, -\frac{1}{7}, -\frac{47}{133}, \frac{36}{133}, \frac{73}{133}, -\frac{1}{133}, -\frac{29}{133}, \frac{54}{133}, \frac{17}{133})$ $+ \frac{6}{133}\sqrt{646}e^5 \otimes e_7$	{123569, 17, 23789, 568}
941:153	$0, 0, 0, 0, 0, \frac{13}{5765}\sqrt{3522}e^{12}, \frac{26}{5765}\sqrt{1383}e^{13},$ $\frac{13}{5765}\sqrt{654}e^{14} + \frac{78}{5765}\sqrt{21}e^{25}, \frac{13}{5765}\sqrt{2198}e^{16} + \frac{26}{5765}\sqrt{1446}e^{24}$	$(\frac{91}{5765}, -\frac{429}{5765}, -\frac{78}{5765}, \frac{182}{5765}, \frac{702}{5765}, -\frac{338}{5765}, \frac{13}{5765}, \frac{273}{5765}, -\frac{247}{5765})$ $+ \frac{13}{5765}\sqrt{6154}e^4 \otimes e_7 + \frac{26}{5765}\sqrt{1182}e^3 \otimes e_9$	{1256789, 3567}
941:153	$0, 0, 0, 0, 0, \frac{19}{821}\sqrt{582}e^{12}, \frac{19}{821}\sqrt{122}e^{13}, \frac{76}{821}\sqrt{6}e^{14} + \frac{19}{821}\sqrt{66}e^{25},$ $\frac{38}{821}\sqrt{105}e^{16} + \frac{228}{821}e^{24}$	$(\frac{57}{821}, \frac{114}{821}, -\frac{304}{821}, \frac{114}{821}, \frac{57}{821}, \frac{171}{821}, \frac{247}{821}, \frac{171}{821}, \frac{228}{821})$ $+ \frac{19}{821}\sqrt{910}e^1 \otimes e_3 + \frac{38}{821}\sqrt{138}e^2 \otimes e_7$	{12459, 234689}
941:153	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{31}e^{12}, \frac{2}{25}e^{13}, \frac{6}{25}e^{14} + \frac{2}{25}\sqrt{6}e^{25},$ $\frac{4}{25}\sqrt{11}e^{16} + \frac{8}{25}e^{24}$	$(\frac{2}{25}, -\frac{3}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{9}{25}, -\frac{1}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{1}{25})$ $+ \frac{2}{25}\sqrt{33}e^5 \otimes e_9 + \frac{2}{25}\sqrt{58}e^1 \otimes e_3$	{234689, 3458}
941:153	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{4085}e^{12}, \frac{6}{89}\sqrt{86}e^{13}, \frac{1}{89}\sqrt{2193}e^{14} + \frac{1}{89}\sqrt{903}e^{25},$ $\frac{2}{89}\sqrt{946}e^{16} + \frac{1}{89}\sqrt{2795}e^{24}$	$(\frac{8}{89}, \frac{9}{178}, -\frac{35}{89}, \frac{16}{89}, \frac{39}{178}, \frac{25}{178}, -\frac{27}{89}, \frac{24}{89}, \frac{41}{178})$ $+ \frac{4}{89}\sqrt{430}e^1 \otimes e_3$	{1249, 1456, 2345689, 348}
941:153	$0, 0, 0, 0, 0, \frac{102}{605}\sqrt{22}e^{12}, \frac{17}{605}\sqrt{662}e^{13}, \frac{17}{605}\sqrt{438}e^{14} + \frac{102}{605}\sqrt{7}e^{25},$ $\frac{34}{605}\sqrt{177}e^{16} + \frac{51}{605}\sqrt{58}e^{24}$	$(\frac{51}{605}, \frac{51}{605}, -\frac{238}{605}, \frac{102}{605}, \frac{102}{605}, \frac{102}{605}, -\frac{17}{55}, \frac{153}{605}, \frac{153}{605})$ $+ \frac{17}{605}\sqrt{1258}e^1 \otimes e_3 + \frac{34}{605}\sqrt{42}e^5 \otimes e_7$	{1249, 348}
941:153	$0, 0, 0, 0, 0, \frac{6}{2333}\sqrt{11218}e^{12}, \frac{12}{2333}\sqrt{18673}e^{13},$ $\frac{6}{2333}\sqrt{49771}e^{14} + \frac{36}{2333}\sqrt{1349}e^{25}, \frac{12}{2333}\sqrt{4970}e^{16} + \frac{12}{2333}\sqrt{14626}e^{24}$	$(\frac{106}{2333}, \frac{667}{2333}, -\frac{717}{2333}, \frac{212}{2333}, -\frac{349}{2333}, \frac{773}{2333}, -\frac{611}{2333}, \frac{318}{2333}, \frac{879}{2333})$ $+ \frac{18}{2333}\sqrt{15762}e^2 \otimes e_7$	{12348, 1456789, 2456, 3479}
941:153	$0, 0, 0, 0, 0, \frac{18}{613}\sqrt{33}e^{12}, \frac{9}{613}\sqrt{546}e^{13}, \frac{9}{613}\sqrt{78}e^{14} + \frac{9}{613}\sqrt{398}e^{25},$ $\frac{9}{613}\sqrt{202}e^{16} + \frac{99}{613}\sqrt{2}e^{24}$	$(-\frac{15}{613}, \frac{102}{613}, \frac{36}{613}, -\frac{30}{613}, -\frac{147}{613}, \frac{87}{613}, \frac{21}{613}, -\frac{45}{613}, \frac{72}{613})$ $+ \frac{36}{613}\sqrt{38}e^2 \otimes e_7 + \frac{9}{613}\sqrt{514}e^3 \otimes e_8$	{123569, 289}
941:153	$0, 0, 0, 0, 0, \frac{17}{2415}\sqrt{470}e^{12}, \frac{17}{2415}\sqrt{6870}e^{13},$ $\frac{34}{7245}\sqrt{83}e^{14} + \frac{34}{7245}\sqrt{1506}e^{25}, \frac{17}{7245}\sqrt{2222}e^{16} + \frac{34}{7245}\sqrt{79}e^{24}$	$(\frac{17}{2415}, -\frac{629}{7245}, \frac{442}{7245}, \frac{34}{2415}, \frac{34}{315}, -\frac{578}{7245}, \frac{493}{7245}, \frac{17}{805}, -\frac{527}{7245})$ $+ \frac{17}{7245}\sqrt{6902}e^3 \otimes e_8 + \frac{68}{7245}\sqrt{421}e^5 \otimes e_7$	{126789, 367}
941:153	$0, 0, 0, 0, 0, \frac{9}{95}\sqrt{30}e^{12}, \frac{6}{95}\sqrt{42}e^{13}, \frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{25},$ $\frac{3}{95}\sqrt{186}e^{16} + \frac{6}{95}\sqrt{21}e^{24}$	$(\frac{3}{95}, \frac{18}{95}, -\frac{24}{95}, \frac{6}{95}, -\frac{9}{95}, \frac{21}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{24}{95})$ $+ \frac{3}{95}\sqrt{174}e^2 \otimes e_5 + \frac{3}{95}\sqrt{354}e^1 \otimes e_3$	{1249, 1456}
941:153	$0, 0, 0, 0, 0, \frac{92}{1465}\sqrt{6}e^{12}, \frac{69}{1465}\sqrt{77}e^{13}, \frac{23}{1465}\sqrt{563}e^{14} + \frac{46}{1465}\sqrt{31}e^{25},$ $\frac{23}{1465}\sqrt{185}e^{16} + \frac{46}{1465}\sqrt{278}e^{24}$	$(-\frac{69}{1465}, \frac{161}{1465}, \frac{552}{1465}, -\frac{138}{1465}, -\frac{368}{1465}, \frac{92}{1465}, \frac{483}{1465}, -\frac{207}{1465}, \frac{23}{1465})$ $+ \frac{23}{1465}\sqrt{1133}e^2 \otimes e_5 + \frac{46}{1465}\sqrt{381}e^3 \otimes e_9$	{1279, 1356}
941:153	$0, 0, 0, 0, 0, \frac{12}{283}\sqrt{230}e^{12}, \frac{69}{283}\sqrt{10}e^{13}, \frac{3}{283}\sqrt{2990}e^{14} + \frac{9}{283}\sqrt{506}e^{25},$ $\frac{3}{283}\sqrt{2162}e^{16} + \frac{3}{283}\sqrt{46}e^{24}$	$(-\frac{13}{283}, \frac{20}{283}, \frac{168}{283}, -\frac{26}{283}, -\frac{59}{283}, \frac{7}{283}, \frac{155}{283}, -\frac{39}{283}, -\frac{6}{283})$ $+ \frac{27}{283}\sqrt{138}e^3 \otimes e_8$	{126789, 1578, 23579, 367}
941:153	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{21}e^{12}, \frac{3}{95}\sqrt{186}e^{13}, \frac{9}{95}\sqrt{10}e^{14} + \frac{3}{95}\sqrt{78}e^{25},$ $\frac{6}{95}\sqrt{42}e^{16} + \frac{9}{95}\sqrt{30}e^{24}$	$(\frac{3}{95}, \frac{18}{95}, -\frac{24}{95}, \frac{6}{95}, -\frac{9}{95}, \frac{21}{95}, -\frac{21}{95}, \frac{9}{95}, \frac{24}{95})$ $+ \frac{3}{95}\sqrt{174}e^2 \otimes e_5 + \frac{3}{95}\sqrt{354}e^4 \otimes e_7$	{2379, 3567}
941:154	$0, 0, 0, 0, 0, \frac{126}{1289}e^{12}, \frac{21}{1289}\sqrt{859}e^{14} - \frac{21}{1289}\sqrt{641}e^{23},$ $\frac{21}{1289}\sqrt{871}e^{13} + \frac{693}{1289}e^{24}, \frac{42}{1289}\sqrt{115}e^{16} + \frac{231}{1289}\sqrt{10}e^{35}$	$(-\frac{42}{1289}, -\frac{42}{1289}, \frac{315}{1289}, \frac{315}{1289}, -\frac{441}{1289}, -\frac{84}{1289}, \frac{273}{1289}, \frac{273}{1289}, -\frac{126}{1289})$ $+ \frac{315}{1289}\sqrt{10}e^4 \otimes e_9$	{1246, 1579, 23457, 369, 1246, 1579, 23457, 369}
941:154	$0, 0, 0, 0, 0, \frac{126}{1289}e^{12}, \frac{21}{1289}\sqrt{859}e^{14} + \frac{21}{1289}\sqrt{641}e^{23},$ $\frac{21}{1289}\sqrt{871}e^{13} + \frac{693}{1289}e^{24}, \frac{42}{1289}\sqrt{115}e^{16} + \frac{231}{1289}\sqrt{10}e^{35}$	$(-\frac{42}{1289}, -\frac{42}{1289}, \frac{315}{1289}, \frac{315}{1289}, -\frac{441}{1289}, -\frac{84}{1289}, \frac{273}{1289}, \frac{273}{1289}, -\frac{126}{1289})$ $+ \frac{315}{1289}\sqrt{10}e^4 \otimes e_9$	{1246, 1579, 23457, 369, 1246, 1579, 23457, 369}
941:154	$0, 0, 0, 0, 0, \frac{594}{1181}e^{12}, \frac{33}{1181}\sqrt{374}e^{14} - \frac{33}{1181}\sqrt{1006}e^{23},$ $\frac{66}{1181}\sqrt{239}e^{13} + \frac{594}{1181}e^{24}, \frac{330}{1181}e^{16} + \frac{33}{1181}\sqrt{590}e^{35}$	$(-\frac{33}{1181}, -\frac{33}{1181}, \frac{495}{1181}, \frac{495}{1181}, -\frac{594}{1181}, -\frac{66}{1181}, \frac{462}{1181}, \frac{462}{1181}, -\frac{99}{1181})$ $+ \frac{99}{1181}\sqrt{230}e^3 \otimes e_5$	{1236, 1245678, 2348, 257, 1236, 1245678, 2348, 257}
941:154	$0, 0, 0, 0, 0, \frac{594}{1181}e^{12}, \frac{33}{1181}\sqrt{374}e^{14} + \frac{33}{1181}\sqrt{1006}e^{23},$ $\frac{66}{1181}\sqrt{239}e^{13} + \frac{594}{1181}e^{24}, \frac{330}{1181}e^{16} + \frac{33}{1181}\sqrt{590}e^{35}$	$(-\frac{33}{1181}, -\frac{33}{1181}, \frac{495}{1181}, \frac{495}{1181}, -\frac{594}{1181}, -\frac{66}{1181}, \frac{462}{1181}, \frac{462}{1181}, -\frac{99}{1181})$ $+ \frac{99}{1181}\sqrt{230}e^3 \otimes e_5$	{1236, 1245678, 2348, 257, 1236, 1245678, 2348, 257}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:155	$0, 0, 0, 0, 0, \frac{14}{547}\sqrt{283}e^{12}, \frac{14}{547}\sqrt{310}e^{34}, \frac{84}{547}\sqrt{2}e^{13} + \frac{14}{547}\sqrt{15}e^{24},$ $\frac{14}{547}\sqrt{215}e^{14} + \frac{14}{547}\sqrt{286}e^{26} + \frac{126}{547}e^{35}$	$(\frac{70}{547}, -\frac{7}{547}, -\frac{91}{547}, -\frac{14}{547}, \frac{147}{547}, \frac{63}{547}, -\frac{105}{547}, -\frac{21}{547}, \frac{56}{547})$ $+ \frac{14}{547}\sqrt{481}e^2 \otimes e_7$	{1234589, 14679}
941:155	$0, 0, 0, 0, 0, \frac{20}{177}e^{12}, \frac{10}{177}\sqrt{237}e^{34}, \frac{10}{177}\sqrt{219}e^{13} + \frac{30}{177}\sqrt{2}e^{24},$ $\frac{10}{177}\sqrt{87}e^{14} + \frac{10}{177}\sqrt{159}e^{26} + \frac{50}{177}\sqrt{6}e^{35}$	$(-\frac{10}{59}, \frac{5}{59}, \frac{25}{59}, \frac{10}{59}, -\frac{25}{59}, -\frac{5}{59}, \frac{35}{59}, \frac{15}{59}, 0)$ $+ \frac{10}{177}\sqrt{453}e^3 \otimes e_5$	{23468, 457}
941:155	$0, 0, 0, 0, 0, \frac{846}{4317}e^{12}, \frac{47}{4317}\sqrt{3878}e^{34}, \frac{1034}{4317}\sqrt{5}e^{13} + \frac{47}{4317}\sqrt{3858}e^{24},$ $\frac{94}{4317}\sqrt{331}e^{14} + \frac{188}{4317}\sqrt{137}e^{26} + \frac{47}{4317}\sqrt{2886}e^{35}$	$(\frac{329}{1439}, -\frac{47}{4317}, -\frac{376}{1439}, -\frac{94}{4317}, \frac{2021}{4317}, \frac{940}{4317}, -\frac{1222}{4317}, -\frac{47}{1439}, \frac{893}{4317})$ $+ \frac{47}{4317}\sqrt{7478}e^1 \otimes e_7$	{1689, 378}
941:156	$0, 0, 0, 0, 0, \frac{116}{2571}\sqrt{163}e^{12}, \frac{232}{2571}\sqrt{71}e^{14} + \frac{116}{2571}\sqrt{155}e^{23},$ $\frac{58}{2571}\sqrt{499}e^{13} + \frac{58}{2571}\sqrt{1034}e^{25}, \frac{58}{2571}\sqrt{2}e^{16} + \frac{116}{2571}\sqrt{77}e^{34}$	$(\frac{116}{857}, -\frac{667}{2571}, \frac{174}{857}, -\frac{493}{2571}, \frac{1537}{2571}, -\frac{319}{2571}, -\frac{145}{2571}, \frac{290}{857}, \frac{29}{2571})$ $+ \frac{116}{2571}\sqrt{559}e^5 \otimes e_7$	{235, 2478, 34679, 5689}
941:156	$0, 0, 0, 0, 0, \frac{116}{2571}\sqrt{163}e^{12}, \frac{232}{2571}\sqrt{71}e^{14} + \frac{116}{2571}\sqrt{155}e^{23},$ $\frac{58}{2571}\sqrt{499}e^{13} + \frac{58}{2571}\sqrt{1034}e^{25}, \frac{58}{2571}\sqrt{2}e^{16} + \frac{116}{2571}\sqrt{77}e^{34}$	$(\frac{116}{857}, -\frac{667}{2571}, \frac{174}{857}, -\frac{493}{2571}, \frac{1537}{2571}, -\frac{319}{2571}, -\frac{145}{2571}, \frac{290}{857}, \frac{29}{2571})$ $- \frac{116}{2571}\sqrt{559}e^5 \otimes e_7$	{235, 2478, 34679, 5689}
941:156	$0, 0, 0, 0, 0, \frac{3}{149}\sqrt{165}e^{12}, \frac{3}{149}\sqrt{183}e^{14} + \frac{18}{149}\sqrt{10}e^{23},$ $\frac{3}{149}\sqrt{795}e^{13} + \frac{18}{149}\sqrt{34}e^{25}, \frac{3}{149}\sqrt{870}e^{16} + \frac{15}{149}\sqrt{42}e^{34}$	$(\frac{18}{149}, -\frac{36}{149}, \frac{27}{149}, -\frac{27}{149}, \frac{81}{149}, -\frac{18}{149}, -\frac{9}{149}, \frac{45}{149}, 0)$ $+ \frac{3}{149}\sqrt{2301}e^5 \otimes e_9$	{24689, 578}
941:156	$0, 0, 0, 0, 0, \frac{82}{5013}\sqrt{535}e^{12}, \frac{41}{5013}\sqrt{498}e^{14} + \frac{41}{5013}\sqrt{3846}e^{23},$ $\frac{328}{5013}\sqrt{34}e^{13} + \frac{82}{5013}\sqrt{1153}e^{25}, \frac{41}{5013}\sqrt{3022}e^{16} + \frac{41}{5013}\sqrt{853}e^{34}$	$(-\frac{82}{1671}, \frac{1189}{5013}, -\frac{41}{557}, \frac{1066}{5013}, -\frac{1804}{5013}, \frac{943}{5013}, \frac{820}{5013}, -\frac{205}{1671}, \frac{697}{5013})$ $+ \frac{41}{5013}\sqrt{9022}e^4 \otimes e_8$	{134, 1578}
941:156	$0, 0, 0, 0, 0, \frac{35}{1293}\sqrt{958}e^{12}, \frac{35}{1293}\sqrt{535}e^{14} + \frac{35}{1293}\sqrt{986}e^{23},$ $\frac{35}{1293}\sqrt{331}e^{13} + \frac{70}{1293}\sqrt{102}e^{25}, \frac{35}{1293}\sqrt{437}e^{16} + \frac{70}{1293}\sqrt{14}e^{34}$	$(-\frac{70}{1293}, \frac{175}{431}, -\frac{35}{431}, \frac{490}{1293}, -\frac{700}{1293}, \frac{455}{1293}, \frac{140}{431}, -\frac{175}{1293}, \frac{385}{1293})$ $+ \frac{455}{1293}\sqrt{13}e^2 \otimes e_5$	{23469, 357}
941:157	$0, 0, 0, 0, 0, \frac{9}{122}\sqrt{10}e^{12}, \frac{3}{61}\sqrt{145}e^{13} + \frac{9}{122}\sqrt{10}e^{24},$ $\frac{15}{61}\sqrt{10}e^{15} + \frac{3}{122}\sqrt{410}e^{23}, \frac{3}{61}\sqrt{85}e^{16} + \frac{15}{61}\sqrt{10}e^{34}$	$(-\frac{12}{61}, \frac{15}{61}, \frac{9}{61}, -\frac{18}{61}, \frac{36}{61}, \frac{3}{61}, -\frac{3}{61}, \frac{24}{61}, -\frac{9}{61})$ $+ \frac{9}{122}\sqrt{230}e^5 \otimes e_9$	{123789, 134567}
941:157	$0, 0, 0, 0, 0, \frac{68}{1511}\sqrt{159}e^{12}, \frac{34}{1511}\sqrt{663}e^{13} + \frac{34}{1511}\sqrt{978}e^{24},$ $\frac{459}{1511}\sqrt{6}e^{15} + \frac{17}{1511}\sqrt{2310}e^{23}, \frac{51}{1511}\sqrt{206}e^{16} + \frac{102}{1511}\sqrt{13}e^{34}$	$(-\frac{272}{1511}, \frac{323}{1511}, \frac{187}{1511}, -\frac{408}{1511}, \frac{782}{1511}, \frac{51}{1511}, -\frac{85}{1511}, \frac{510}{1511}, -\frac{221}{1511})$ $+ \frac{17}{1511}\sqrt{8070}e^5 \otimes e_7$	{135, 1478}
941:157	$0, 0, 0, 0, 0, \frac{209}{1559}\sqrt{30}e^{12}, \frac{19}{1559}\sqrt{2418}e^{13} + \frac{76}{1559}\sqrt{78}e^{24},$ $\frac{1026}{1559}e^{15} + \frac{19}{1559}\sqrt{210}e^{23}, \frac{19}{1559}\sqrt{3714}e^{16} + \frac{19}{1559}\sqrt{1290}e^{34}$	$(\frac{418}{1559}, -\frac{228}{1559}, -\frac{19}{1559}, \frac{627}{1559}, -\frac{665}{1559}, \frac{190}{1559}, \frac{399}{1559}, -\frac{247}{1559}, \frac{608}{1559})$ $+ \frac{19}{1559}\sqrt{8130}e^1 \otimes e_5$	{2345679, 45}
941:158	$0, 0, 0, 0, 0, \frac{86}{4677}\sqrt{305}e^{12}, \frac{86}{4677}\sqrt{835}e^{14} + \frac{43}{4677}\sqrt{4246}e^{23},$ $\frac{43}{4677}\sqrt{2878}e^{15} + \frac{215}{4677}\sqrt{158}e^{34}, \frac{86}{4677}\sqrt{322}e^{13} + \frac{86}{1559}\sqrt{114}e^{26}$	$(-\frac{301}{1559}, \frac{43}{4677}, \frac{86}{4677}, \frac{344}{1559}, \frac{2021}{4677}, -\frac{860}{1559}, \frac{43}{1559}, \frac{1118}{4677}, -\frac{817}{4677})$ $+ \frac{43}{1559}\sqrt{910}e^4 \otimes e_9$	{1679, 478}
941:158	$0, 0, 0, 0, 0, \frac{42}{1567}\sqrt{285}e^{12}, \frac{21}{1567}\sqrt{570}e^{14} + \frac{21}{1567}\sqrt{114}e^{23},$ $\frac{21}{1567}\sqrt{3354}e^{15} + \frac{42}{1567}\sqrt{285}e^{34}, \frac{21}{1567}\sqrt{2190}e^{13} + \frac{21}{1567}\sqrt{2442}e^{26}$	$(-\frac{399}{1567}, \frac{42}{1567}, \frac{84}{1567}, \frac{525}{1567}, \frac{1008}{1567}, -\frac{357}{1567}, \frac{126}{1567}, \frac{609}{1567}, -\frac{315}{1567})$ $+ \frac{21}{1567}\sqrt{7962}e^5 \otimes e_9$	{135, 2379}
941:158	$0, 0, 0, 0, 0, \frac{61}{4569}\sqrt{2942}e^{12}, \frac{61}{4569}\sqrt{2782}e^{14} + \frac{61}{4569}\sqrt{2590}e^{23},$ $\frac{61}{4569}\sqrt{2446}e^{15} + \frac{488}{4569}\sqrt{5}e^{34}, \frac{61}{4569}\sqrt{2566}e^{13} + \frac{244}{1523}\sqrt{3}e^{26}$	$(\frac{549}{1523}, \frac{244}{4569}, \frac{488}{4569}, -\frac{305}{1523}, -\frac{2074}{4569}, \frac{1891}{4569}, \frac{244}{1523}, -\frac{427}{4569}, \frac{2135}{4569})$ $+ \frac{61}{1523}\sqrt{874}e^1 \otimes e_5$	{1679, 256}
941:158	$0, 0, 0, 0, 0, \frac{3}{403}\sqrt{1023}e^{12}, \frac{6}{403}\sqrt{138}e^{14} + \frac{9}{403}\sqrt{35}e^{23},$ $\frac{3}{403}\sqrt{669}e^{15} + \frac{3}{403}\sqrt{1023}e^{34}, \frac{57}{403}\sqrt{3}e^{13} + \frac{9}{403}\sqrt{118}e^{26}$	$(\frac{3}{31}, \frac{3}{403}, \frac{6}{403}, -\frac{30}{403}, -\frac{63}{403}, \frac{42}{403}, \frac{9}{403}, -\frac{24}{403}, \frac{45}{403})$ $+ \frac{3}{403}\sqrt{2127}e^2 \otimes e_8$	{2346, 3578}
941:159	$0, 0, 0, 0, 0, \frac{18}{407}\sqrt{41}e^{12}, \frac{6}{407}\sqrt{57}e^{13} + \frac{18}{407}\sqrt{101}e^{24},$ $\frac{6}{407}\sqrt{966}e^{14} + \frac{12}{407}\sqrt{258}e^{35}, \frac{24}{407}\sqrt{42}e^{16} + \frac{6}{407}\sqrt{966}e^{23}$	$(\frac{3}{407}, -\frac{57}{407}, \frac{6}{407}, \frac{6}{37}, \frac{63}{407}, -\frac{54}{407}, \frac{9}{407}, \frac{69}{407}, -\frac{51}{407})$ $+ \frac{36}{407}\sqrt{30}e^5 \otimes e_7$	{1356, 236789}
941:159	$0, 0, 0, 0, 0, \frac{36}{389}\sqrt{34}e^{12}, \frac{48}{389}\sqrt{15}e^{13} + \frac{36}{389}\sqrt{23}e^{24},$ $\frac{12}{389}\sqrt{546}e^{14} + \frac{12}{389}\sqrt{237}e^{35}, \frac{12}{389}\sqrt{105}e^{16} + \frac{12}{389}\sqrt{546}e^{23}$	$(\frac{12}{389}, -\frac{102}{389}, \frac{24}{389}, \frac{138}{389}, \frac{126}{389}, -\frac{90}{389}, \frac{36}{389}, \frac{150}{389}, -\frac{78}{389})$ $+ \frac{36}{389}\sqrt{114}e^4 \otimes e_9$	{23458, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:159	$0, 0, 0, 0, 0, \frac{9}{148}\sqrt{67}e^{12}, \frac{3}{74}\sqrt{165}e^{13} + \frac{9}{148}\sqrt{67}e^{24},$ $\frac{3}{74}\sqrt{177}e^{14} + \frac{3}{74}\sqrt{201}e^{35}, \frac{3}{74}\sqrt{201}e^{16} + \frac{39}{148}\sqrt{6}e^{23}$	$(\frac{3}{296}, \frac{27}{148}, \frac{3}{148}, -\frac{45}{296}, -\frac{6}{37}, \frac{57}{296}, \frac{9}{296}, -\frac{21}{148}, \frac{15}{74})$ $+ \frac{9}{148}\sqrt{102}e^3 \otimes e_5$	{1245679, 259}
941:159	$0, 0, 0, 0, 0, \frac{18}{107}\sqrt{11}e^{12}, \frac{6}{107}\sqrt{123}e^{13} + \frac{18}{107}\sqrt{11}e^{24},$ $\frac{12}{107}\sqrt{6}e^{14} + \frac{12}{107}\sqrt{33}e^{35}, \frac{6}{107}\sqrt{42}e^{16} + \frac{12}{107}\sqrt{6}e^{23}$	$(\frac{3}{107}, \frac{33}{107}, \frac{6}{107}, -\frac{24}{107}, -\frac{27}{107}, \frac{36}{107}, \frac{9}{107}, -\frac{21}{107}, \frac{39}{107})$ $- \frac{18}{107}\sqrt{30}e^2 \otimes e_8$	{1249, 1568, 2679, 4578}
941:159	$0, 0, 0, 0, 0, \frac{18}{107}\sqrt{11}e^{12}, \frac{6}{107}\sqrt{123}e^{13} + \frac{18}{107}\sqrt{11}e^{24},$ $\frac{12}{107}\sqrt{6}e^{14} + \frac{12}{107}\sqrt{33}e^{35}, \frac{6}{107}\sqrt{42}e^{16} + \frac{12}{107}\sqrt{6}e^{23}$	$(\frac{3}{107}, \frac{33}{107}, \frac{6}{107}, -\frac{24}{107}, -\frac{27}{107}, \frac{36}{107}, \frac{9}{107}, -\frac{21}{107}, \frac{39}{107})$ $+ \frac{18}{107}\sqrt{30}e^2 \otimes e_8$	{1249, 1568, 2679, 4578}
941:160	$0, 0, 0, 0, 0, \frac{112}{943}\sqrt{15}e^{12}, \frac{7}{943}\sqrt{2190}e^{13} + \frac{21}{943}\sqrt{346}e^{24},$ $\frac{35}{943}\sqrt{186}e^{15} + \frac{112}{943}\sqrt{15}e^{34}, \frac{7}{943}\sqrt{2802}e^{16} + \frac{7}{943}\sqrt{1806}e^{23}$	$(\frac{7}{943}, -\frac{140}{943}, \frac{14}{943}, \frac{7}{41}, \frac{168}{943}, -\frac{133}{943}, \frac{21}{943}, \frac{175}{943}, -\frac{126}{943})$ $+ \frac{21}{943}\sqrt{602}e^5 \otimes e_7$	{126789, 568}
941:160	$0, 0, 0, 0, 0, \frac{7}{1031}\sqrt{4890}e^{12}, \frac{14}{1031}\sqrt{303}e^{13} + \frac{21}{1031}\sqrt{178}e^{24},$ $\frac{7}{1031}\sqrt{4314}e^{15} + \frac{70}{1031}\sqrt{30}e^{34}, \frac{462}{1031}e^{16} + \frac{42}{1031}\sqrt{105}e^{23}$	$(\frac{7}{1031}, \frac{168}{1031}, \frac{14}{1031}, -\frac{147}{1031}, -\frac{140}{1031}, \frac{175}{1031}, \frac{21}{1031}, -\frac{133}{1031}, \frac{182}{1031})$ $+ \frac{63}{1031}\sqrt{70}e^1 \otimes e_5$	{1346, 2345679}
941:160	$0, 0, 0, 0, 0, \frac{7}{283}\sqrt{237}e^{12}, \frac{7}{283}\sqrt{555}e^{13} + \frac{84}{283}\sqrt{3}e^{24},$ $\frac{7}{283}\sqrt{627}e^{15} + \frac{7}{283}\sqrt{237}e^{34}, \frac{7}{283}\sqrt{102}e^{16} + \frac{283}{283}\sqrt{483}e^{23}$	$(\frac{7}{283}, \frac{91}{283}, \frac{14}{283}, -\frac{70}{283}, -\frac{63}{283}, \frac{98}{283}, \frac{21}{283}, -\frac{56}{283}, \frac{105}{283})$ $+ \frac{21}{283}\sqrt{161}e^2 \otimes e_8$	{2346, 3589}
941:161	$0, 0, 0, 0, 0, \frac{6}{1361}\sqrt{295}e^{12}, \frac{6}{1361}\sqrt{107}e^{13},$ $-\frac{3}{1361}\sqrt{785}e^{14} + \frac{15}{1361}\sqrt{55}e^{35}, \frac{15}{1361}\sqrt{47}e^{15} + \frac{9}{1361}\sqrt{166}e^{26} + \frac{9}{1361}\sqrt{65}e^{34}$	$(-\frac{33}{1361}, \frac{24}{1361}, -\frac{33}{1361}, \frac{48}{1361}, \frac{48}{1361}, -\frac{9}{1361}, -\frac{66}{1361}, \frac{15}{1361}, \frac{15}{1361})$ $+ \frac{3}{1361}\sqrt{2426}e^2 \otimes e_8$	{1234579, 15689, 2356, 4578, 1234579, 15689, 2356, 4578}
941:161	$0, 0, 0, 0, 0, \frac{6}{1361}\sqrt{295}e^{12}, \frac{6}{1361}\sqrt{107}e^{13}, \frac{3}{1361}\sqrt{785}e^{14} + \frac{15}{1361}\sqrt{55}e^{35},$ $\frac{15}{1361}\sqrt{47}e^{15} + \frac{9}{1361}\sqrt{166}e^{26} + \frac{9}{1361}\sqrt{65}e^{34}$	$(-\frac{33}{1361}, \frac{24}{1361}, -\frac{33}{1361}, \frac{48}{1361}, \frac{48}{1361}, -\frac{9}{1361}, -\frac{66}{1361}, \frac{15}{1361}, \frac{15}{1361})$ $+ \frac{3}{1361}\sqrt{2426}e^2 \otimes e_8$	{1234579, 15689, 2356, 4578, 1234579, 15689, 2356, 4578}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, -\frac{34}{657}\sqrt{195}e^{14} + \frac{68}{657}\sqrt{30}e^{35},$ $\frac{34}{657}\sqrt{91}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{68}{657}\sqrt{39}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $+ \frac{34}{657}\sqrt{562}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689, 12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, \frac{34}{657}\sqrt{195}e^{14} + \frac{68}{657}\sqrt{30}e^{35},$ $\frac{34}{657}\sqrt{91}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{68}{657}\sqrt{39}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $+ \frac{34}{657}\sqrt{562}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689, 12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, -\frac{34}{657}\sqrt{195}e^{14} + \frac{68}{657}\sqrt{30}e^{35},$ $\frac{34}{657}\sqrt{91}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{68}{657}\sqrt{39}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $- \frac{34}{657}\sqrt{562}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689, 12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, \frac{34}{657}\sqrt{195}e^{14} + \frac{68}{657}\sqrt{30}e^{35},$ $\frac{34}{657}\sqrt{91}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{68}{657}\sqrt{39}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $- \frac{34}{657}\sqrt{562}e^4 \otimes e_7$	{12346, 12678, 134, 178, 2379, 2489, 3679, 4689, 12346, 12678, 134, 178, 2379, 2489, 3679, 4689}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, -\frac{34}{657}\sqrt{86}e^{14} + \frac{34}{657}\sqrt{161}e^{35},$ $\frac{34}{657}\sqrt{190}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{170}{657}\sqrt{5}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $+ \frac{34}{657}\sqrt{562}e^5 \otimes e_7$	{12356, 135, 2589, 5689, 12356, 135, 2589, 5689}
941:161	$0, 0, 0, 0, 0, \frac{68}{657}\sqrt{17}e^{12}, \frac{34}{657}\sqrt{195}e^{13}, \frac{34}{657}\sqrt{86}e^{14} + \frac{34}{657}\sqrt{161}e^{35},$ $\frac{34}{657}\sqrt{190}e^{15} + \frac{34}{657}\sqrt{10}e^{26} + \frac{170}{657}\sqrt{5}e^{34}$	$(-\frac{136}{657}, \frac{17}{73}, -\frac{136}{657}, \frac{34}{73}, \frac{34}{73}, \frac{17}{657}, -\frac{272}{657}, \frac{170}{657}, \frac{170}{657})$ $+ \frac{34}{657}\sqrt{562}e^5 \otimes e_7$	{12356, 135, 2589, 5689, 12356, 135, 2589, 5689}
941:162	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{15}{61}\sqrt{6}e^{13}, \frac{15}{61}\sqrt{6}e^{14} + \frac{3}{61}\sqrt{114}e^{35},$ $\frac{3}{61}\sqrt{6}e^{16} + \frac{15}{61}\sqrt{6}e^{23} + \frac{9}{61}\sqrt{14}e^{45}$	$(-\frac{6}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{9}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{54}{61}e^2 \otimes e_8$	{1568, 2679}
941:162	$0, 0, 0, 0, 0, \frac{54}{503}\sqrt{26}e^{12}, \frac{18}{503}\sqrt{462}e^{13}, \frac{18}{503}\sqrt{39}e^{14} + \frac{36}{503}\sqrt{57}e^{35},$ $\frac{36}{503}\sqrt{57}e^{16} + \frac{144}{503}\sqrt{6}e^{23} + \frac{54}{503}\sqrt{13}e^{45}$	$(-\frac{63}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{117}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $+ \frac{54}{503}\sqrt{141}e^2 \otimes e_7$	{123, 123458, 3479, 35789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:162	$0, 0, 0, 0, 0, \frac{54}{503}\sqrt{26}e^{12}, \frac{18}{503}\sqrt{462}e^{13}, \frac{18}{503}\sqrt{39}e^{14} + \frac{36}{503}\sqrt{57}e^{35},$ $\frac{36}{503}\sqrt{57}e^{16} + \frac{144}{503}\sqrt{6}e^{23} + \frac{54}{503}\sqrt{13}e^{45}$	$(-\frac{63}{503}, \frac{297}{503}, -\frac{126}{503}, \frac{54}{503}, \frac{117}{503}, \frac{234}{503}, -\frac{189}{503}, -\frac{9}{503}, \frac{171}{503})$ $-\frac{54}{503}\sqrt{141}e^2 \otimes e_7$	{123, 123458, 3479, 35789}
941:162	$0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{3}{61}\sqrt{174}e^{13}, \frac{3}{61}\sqrt{174}e^{14} + \frac{3}{61}\sqrt{114}e^{35},$ $\frac{3}{61}\sqrt{6}e^{16} + \frac{3}{61}\sqrt{174}e^{23} + \frac{3}{61}\sqrt{22}e^{45}$	$(-\frac{6}{61}, \frac{24}{61}, -\frac{12}{61}, \frac{3}{61}, \frac{9}{61}, \frac{18}{61}, -\frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+\frac{54}{61}e^5 \otimes e_7$	{12359, 378}
941:162	$0, 0, 0, 0, 0, \frac{54}{877}\sqrt{58}e^{12}, \frac{9}{877}\sqrt{3378}e^{13}, \frac{9}{877}\sqrt{2418}e^{14} + \frac{9}{877}\sqrt{2982}e^{35},$ $\frac{9}{877}\sqrt{2982}e^{16} + \frac{9}{877}\sqrt{762}e^{23} + \frac{27}{877}\sqrt{298}e^{45}$	$(-\frac{72}{877}, \frac{270}{877}, -\frac{144}{877}, \frac{27}{877}, \frac{99}{877}, \frac{198}{877}, -\frac{216}{877}, -\frac{45}{877}, \frac{126}{877})$ $+\frac{54}{877}\sqrt{138}e^4 \otimes e_7$	{178, 2489}
941:163	$0, 0, 0, 0, 0, \frac{17}{1621}\sqrt{2758}e^{12}, \frac{34}{1621}\sqrt{786}e^{13},$ $\frac{17}{1621}\sqrt{1590}e^{14} + \frac{34}{1621}\sqrt{295}e^{35}, \frac{34}{1621}\sqrt{554}e^{16} + \frac{17}{1621}\sqrt{3674}e^{25} + \frac{17}{1621}\sqrt{1626}e^{34}$	$(\frac{187}{1621}, -\frac{391}{1621}, -\frac{102}{1621}, \frac{85}{1621}, \frac{374}{1621}, -\frac{204}{1621}, \frac{85}{1621}, \frac{272}{1621}, -\frac{17}{1621})$ $+\frac{34}{1621}\sqrt{777}e^5 \otimes e_7$	{126789, 367}
941:163	$0, 0, 0, 0, 0, \frac{5}{21}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{318}e^{13}, \frac{4}{21}e^{14} + \frac{2}{21}\sqrt{57}e^{35},$ $\frac{2}{21}\sqrt{57}e^{16} + \frac{1}{21}\sqrt{366}e^{25} + \frac{1}{21}\sqrt{114}e^{34}$	$(-\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, 0, -\frac{2}{7}, \frac{2}{7}, 0, -\frac{1}{7}, \frac{1}{7})$ $+\frac{2}{21}\sqrt{87}e^2 \otimes e_7$	{123469, 367}
941:163	$0, 0, 0, 0, 0, \frac{37}{1933}\sqrt{770}e^{12}, \frac{74}{1933}\sqrt{129}e^{13},$ $\frac{37}{1933}\sqrt{1122}e^{14} + \frac{666}{1933}\sqrt{3}e^{35}, \frac{74}{1933}\sqrt{30}e^{16} + \frac{185}{1933}\sqrt{38}e^{25} + \frac{37}{1933}\sqrt{606}e^{34}$	$(-\frac{333}{1933}, \frac{1073}{1933}, \frac{370}{1933}, \frac{37}{1933}, -\frac{666}{1933}, \frac{740}{1933}, \frac{37}{1933}, -\frac{296}{1933}, \frac{407}{1933})$ $+\frac{222}{1933}\sqrt{91}e^2 \otimes e_8$	{15689, 2356}
941:164	$0, 0, 0, 0, 0, \frac{42}{227}\sqrt{2}e^{12}, \frac{14}{227}\sqrt{177}e^{13}, \frac{7}{227}\sqrt{339}e^{23} + \frac{42}{227}\sqrt{19}e^{45},$ $\frac{28}{227}\sqrt{3}e^{14} + \frac{21}{227}\sqrt{33}e^{26} + \frac{7}{227}\sqrt{399}e^{35}$	$(-\frac{161}{454}, \frac{105}{454}, \frac{77}{454}, \frac{105}{227}, -\frac{14}{227}, -\frac{28}{227}, -\frac{42}{227}, \frac{91}{227}, \frac{49}{454})$ $+\frac{21}{227}\sqrt{129}e^4 \otimes e_7$	{123468, 4689}
941:164	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{70}e^{12}, \frac{4}{95}\sqrt{195}e^{13}, \frac{4}{95}\sqrt{105}e^{23} + \frac{6}{95}\sqrt{65}e^{45},$ $\frac{2}{19}\sqrt{33}e^{14} + \frac{6}{95}\sqrt{110}e^{26} + \frac{4}{19}\sqrt{3}e^{35}$	$(-\frac{5}{19}, \frac{3}{19}, \frac{2}{19}, \frac{6}{19}, -\frac{1}{19}, -\frac{2}{19}, -\frac{3}{19}, \frac{5}{19}, \frac{1}{19})$ $+\frac{18}{95}\sqrt{15}e^2 \otimes e_7$	{146789, 2456}
941:164	$0, 0, 0, 0, 0, \frac{126}{467}\sqrt{2}e^{12}, \frac{14}{467}\sqrt{345}e^{13}, \frac{14}{467}\sqrt{285}e^{23} + \frac{14}{467}\sqrt{399}e^{45},$ $\frac{14}{467}\sqrt{285}e^{14} + \frac{14}{467}\sqrt{6}e^{26} + \frac{14}{467}\sqrt{366}e^{35}$	$(\frac{203}{467}, -\frac{77}{467}, -\frac{14}{467}, -\frac{154}{467}, \frac{63}{467}, \frac{126}{467}, \frac{189}{467}, -\frac{91}{467}, \frac{49}{467})$ $+\frac{42}{467}\sqrt{131}e^1 \otimes e_8$	{1679, 2568}
941:165	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{214}e^{12}, \frac{2}{139}\sqrt{6}e^{13}, -\frac{6}{139}\sqrt{17}e^{23} + \frac{2}{139}\sqrt{263}e^{45},$ $\frac{4}{139}\sqrt{78}e^{16} + \frac{14}{139}\sqrt{5}e^{24} + \frac{2}{139}\sqrt{141}e^{35}$	$(\frac{6}{139}, -\frac{14}{139}, \frac{12}{139}, \frac{12}{139}, -\frac{14}{139}, -\frac{8}{139}, \frac{18}{139}, -\frac{2}{139}, -\frac{2}{139})$ $+\frac{14}{139}\sqrt{10}e^1 \otimes e_8$	{123459, 14567, 24689, 3478, 123459, 14567, 24689, 3478}
941:165	$0, 0, 0, 0, 0, \frac{2}{139}\sqrt{214}e^{12}, \frac{2}{139}\sqrt{6}e^{13}, \frac{6}{139}\sqrt{17}e^{23} + \frac{2}{139}\sqrt{263}e^{45},$ $\frac{4}{139}\sqrt{78}e^{16} + \frac{14}{139}\sqrt{5}e^{24} + \frac{2}{139}\sqrt{141}e^{35}$	$(\frac{6}{139}, -\frac{14}{139}, \frac{12}{139}, \frac{12}{139}, -\frac{14}{139}, -\frac{8}{139}, \frac{18}{139}, -\frac{2}{139}, -\frac{2}{139})$ $+\frac{14}{139}\sqrt{10}e^1 \otimes e_8$	{123459, 14567, 24689, 3478, 123459, 14567, 24689, 3478}
941:165	$0, 0, 0, 0, 0, \frac{7}{67}e^{12}, \frac{21}{67}\sqrt{6}e^{13}, -\frac{7}{134}\sqrt{78}e^{23} + \frac{7}{134}\sqrt{42}e^{45},$ $\frac{7}{67}\sqrt{22}e^{16} + \frac{7}{134}\sqrt{230}e^{24} + \frac{7}{134}\sqrt{106}e^{35}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{28}{67}, \frac{21}{67}, -\frac{21}{67}, \frac{14}{67}, \frac{14}{67})$ $+\frac{7}{67}\sqrt{115}e^2 \otimes e_7$	{1234, 14679, 24568, 345789, 1234, 14679, 24568, 345789}
941:165	$0, 0, 0, 0, 0, \frac{7}{67}e^{12}, \frac{21}{67}\sqrt{6}e^{13}, \frac{7}{134}\sqrt{78}e^{23} + \frac{7}{134}\sqrt{42}e^{45},$ $\frac{7}{67}\sqrt{22}e^{16} + \frac{7}{134}\sqrt{230}e^{24} + \frac{7}{134}\sqrt{106}e^{35}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{28}{67}, \frac{21}{67}, -\frac{21}{67}, \frac{14}{67}, \frac{14}{67})$ $+\frac{7}{67}\sqrt{115}e^2 \otimes e_7$	{1234, 14679, 24568, 345789, 1234, 14679, 24568, 345789}
941:165	$0, 0, 0, 0, 0, \frac{12}{191}\sqrt{5}e^{12}, \frac{2}{191}\sqrt{395}e^{13}, -\frac{1}{191}\sqrt{695}e^{23} + \frac{1}{191}\sqrt{645}e^{45},$ $\frac{12}{191}\sqrt{5}e^{16} + \frac{1}{191}\sqrt{1365}e^{24} + \frac{1}{191}\sqrt{695}e^{35}$	$(-\frac{5}{191}, \frac{14}{191}, -\frac{10}{191}, -\frac{10}{191}, \frac{14}{191}, \frac{9}{191}, -\frac{15}{191}, \frac{4}{191}, \frac{4}{191})$ $+\frac{2}{191}\sqrt{455}e^4 \otimes e_7$	{12679, 1578, 235789, 367, 12679, 1578, 235789, 367}
941:165	$0, 0, 0, 0, 0, \frac{12}{191}\sqrt{5}e^{12}, \frac{2}{191}\sqrt{395}e^{13}, \frac{1}{191}\sqrt{695}e^{23} + \frac{1}{191}\sqrt{645}e^{45},$ $\frac{12}{191}\sqrt{5}e^{16} + \frac{1}{191}\sqrt{1365}e^{24} + \frac{1}{191}\sqrt{695}e^{35}$	$(-\frac{5}{191}, \frac{14}{191}, -\frac{10}{191}, -\frac{10}{191}, \frac{14}{191}, \frac{9}{191}, -\frac{15}{191}, \frac{4}{191}, \frac{4}{191})$ $+\frac{2}{191}\sqrt{455}e^4 \otimes e_7$	{12679, 1578, 235789, 367, 12679, 1578, 235789, 367}
941:166	$0, 0, 0, 0, 0, \frac{13}{349}\sqrt{134}e^{12}, \frac{91}{349}\sqrt{6}e^{13}, \frac{65}{349}\sqrt{6}e^{24} + \frac{13}{349}\sqrt{14}e^{35},$ $\frac{26}{349}\sqrt{37}e^{15} + \frac{26}{349}\sqrt{71}e^{26} + \frac{26}{349}\sqrt{39}e^{34}$	$(-\frac{91}{349}, \frac{65}{349}, -\frac{13}{349}, \frac{52}{349}, \frac{130}{349}, -\frac{26}{349}, -\frac{104}{349}, \frac{117}{349}, \frac{39}{349})$ $+\frac{130}{349}\sqrt{6}e^2 \otimes e_7$	{15679, 2456}
941:166	$0, 0, 0, 0, 0, \frac{41}{3109}\sqrt{454}e^{12}, \frac{82}{3109}\sqrt{501}e^{13},$ $\frac{41}{3109}\sqrt{3122}e^{24} + \frac{246}{3109}\sqrt{6}e^{35}, \frac{41}{3109}\sqrt{2454}e^{15} + \frac{1230}{3109}e^{26} + \frac{41}{3109}\sqrt{2010}e^{34}$	$(\frac{1107}{3109}, -\frac{451}{3109}, \frac{328}{3109}, -\frac{123}{3109}, -\frac{902}{3109}, \frac{656}{3109}, \frac{1435}{3109}, -\frac{574}{3109}, \frac{205}{3109})$ $+\frac{82}{3109}\sqrt{1338}e^1 \otimes e_8$	{179, 2378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:166	$0, 0, 0, 0, 0, \frac{17}{1007} \sqrt{1614e^{12}}, \frac{34}{1007} \sqrt{534e^{13}},$ $\frac{17}{1007} \sqrt{1290e^{24}} + \frac{102}{1007} \sqrt{19e^{35}}, \frac{17}{1007} \sqrt{2298e^{15}} + \frac{306}{1007} e^{26} + \frac{289}{1007} \sqrt{6e^{34}}$	$(-\frac{17}{53}, \frac{255}{1007}, -\frac{34}{1007}, \frac{221}{1007}, \frac{510}{1007}, -\frac{68}{1007}, -\frac{357}{1007}, \frac{476}{1007}, \frac{187}{1007})$ $+ \frac{34}{1007} \sqrt{1290e^5} \otimes e_7$	{179, 2378}
941:167	$0, 0, 0, 0, 0, \frac{2}{139} \sqrt{214e^{12}}, \frac{2}{139} \sqrt{6e^{13}}, \frac{4}{139} \sqrt{39e^{24}} + \frac{4}{139} \sqrt{65e^{35}},$ $\frac{4}{139} \sqrt{78e^{16}} - \frac{4}{139} \sqrt{62e^{23}} + \frac{2}{139} \sqrt{138e^{45}}$	$(\frac{6}{139}, -\frac{14}{139}, \frac{12}{139}, \frac{12}{139}, -\frac{14}{139}, -\frac{8}{139}, \frac{18}{139}, -\frac{2}{139}, -\frac{2}{139})$ $+ \frac{14}{139} \sqrt{10e^1} \otimes e_8$	{123459, 1356, 236789, 3478, 123459, 1356, 236789, 3478}
941:167	$0, 0, 0, 0, 0, \frac{2}{139} \sqrt{214e^{12}}, \frac{2}{139} \sqrt{6e^{13}}, \frac{4}{139} \sqrt{39e^{24}} + \frac{4}{139} \sqrt{65e^{35}},$ $\frac{4}{139} \sqrt{78e^{16}} + \frac{4}{139} \sqrt{62e^{23}} + \frac{2}{139} \sqrt{138e^{45}}$	$(\frac{6}{139}, -\frac{14}{139}, \frac{12}{139}, \frac{12}{139}, -\frac{14}{139}, -\frac{8}{139}, \frac{18}{139}, -\frac{2}{139}, -\frac{2}{139})$ $+ \frac{14}{139} \sqrt{10e^1} \otimes e_8$	{123459, 1356, 236789, 3478, 123459, 1356, 236789, 3478}
941:167	$0, 0, 0, 0, 0, \frac{7}{67} e^{12}, \frac{21}{67} \sqrt{6e^{13}}, \frac{7}{67} \sqrt{11e^{24}} + \frac{14}{67} \sqrt{5e^{35}},$ $\frac{7}{67} \sqrt{22e^{16}} - \frac{21}{67} \sqrt{3e^{23}} + \frac{7}{67} \sqrt{58e^{45}}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{28}{67}, \frac{21}{67}, -\frac{21}{67}, \frac{14}{67}, \frac{14}{67})$ $+ \frac{7}{67} \sqrt{115e^5} \otimes e_7$	{127, 14679, 24568, 589, 127, 14679, 24568, 589}
941:167	$0, 0, 0, 0, 0, \frac{7}{67} e^{12}, \frac{21}{67} \sqrt{6e^{13}}, \frac{7}{67} \sqrt{11e^{24}} + \frac{14}{67} \sqrt{5e^{35}},$ $\frac{7}{67} \sqrt{22e^{16}} + \frac{21}{67} \sqrt{3e^{23}} + \frac{7}{67} \sqrt{58e^{45}}$	$(-\frac{7}{67}, \frac{28}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{28}{67}, \frac{21}{67}, -\frac{21}{67}, \frac{14}{67}, \frac{14}{67})$ $+ \frac{7}{67} \sqrt{115e^5} \otimes e_7$	{127, 14679, 24568, 589, 127, 14679, 24568, 589}
941:167	$0, 0, 0, 0, 0, \frac{12}{191} \sqrt{5e^{12}}, \frac{2}{191} \sqrt{395e^{13}}, \frac{1}{191} \sqrt{1005e^{24}} + \frac{1}{191} \sqrt{1055e^{35}},$ $\frac{12}{191} \sqrt{5e^{16}} - \frac{1}{191} \sqrt{335e^{23}} + \frac{1}{191} \sqrt{1005e^{45}}$	$(-\frac{5}{191}, \frac{14}{191}, -\frac{10}{191}, -\frac{10}{191}, \frac{14}{191}, \frac{9}{191}, -\frac{15}{191}, \frac{4}{191}, \frac{4}{191})$ $+ \frac{2}{191} \sqrt{455e^4} \otimes e_7$	{123469, 13458, 235789, 367, 123469, 13458, 235789, 367}
941:167	$0, 0, 0, 0, 0, \frac{12}{191} \sqrt{5e^{12}}, \frac{2}{191} \sqrt{395e^{13}}, \frac{1}{191} \sqrt{1005e^{24}} + \frac{1}{191} \sqrt{1055e^{35}},$ $\frac{12}{191} \sqrt{5e^{16}} + \frac{1}{191} \sqrt{335e^{23}} + \frac{1}{191} \sqrt{1005e^{45}}$	$(-\frac{5}{191}, \frac{14}{191}, -\frac{10}{191}, -\frac{10}{191}, \frac{14}{191}, \frac{9}{191}, -\frac{15}{191}, \frac{4}{191}, \frac{4}{191})$ $+ \frac{2}{191} \sqrt{455e^4} \otimes e_7$	{123469, 13458, 235789, 367, 123469, 13458, 235789, 367}
941:168	$0, 0, 0, 0, 0, \frac{170}{691} \sqrt{7e^{12}}, \frac{34}{691} \sqrt{265e^{13}}, -\frac{51}{691} \sqrt{15e^{24}} + \frac{17}{691} \sqrt{109e^{35}},$ $\frac{34}{691} \sqrt{122e^{16}} + \frac{17}{691} \sqrt{1015e^{25}} + \frac{17}{691} \sqrt{501e^{34}}$	$(\frac{119}{691}, -\frac{170}{691}, -\frac{170}{691}, \frac{238}{691}, \frac{238}{691}, -\frac{51}{691}, -\frac{51}{691}, \frac{68}{691}, \frac{68}{691})$ $+ \frac{34}{691} \sqrt{318e^5} \otimes e_7$	{126789, 1478, 23479, 367, 126789, 1478, 23479, 367}
941:168	$0, 0, 0, 0, 0, \frac{170}{691} \sqrt{7e^{12}}, \frac{34}{691} \sqrt{265e^{13}}, \frac{51}{691} \sqrt{15e^{24}} + \frac{17}{691} \sqrt{109e^{35}},$ $\frac{34}{691} \sqrt{122e^{16}} + \frac{17}{691} \sqrt{1015e^{25}} + \frac{17}{691} \sqrt{501e^{34}}$	$(\frac{119}{691}, -\frac{170}{691}, -\frac{170}{691}, \frac{238}{691}, \frac{238}{691}, -\frac{51}{691}, -\frac{51}{691}, \frac{68}{691}, \frac{68}{691})$ $+ \frac{34}{691} \sqrt{318e^5} \otimes e_7$	{126789, 1478, 23479, 367, 126789, 1478, 23479, 367}
941:168	$0, 0, 0, 0, 0, \frac{20}{787} \sqrt{47e^{12}}, \frac{10}{787} \sqrt{58e^{13}}, -\frac{15}{787} \sqrt{41e^{24}} + \frac{5}{787} \sqrt{861e^{35}},$ $\frac{10}{787} \sqrt{246e^{16}} + \frac{15}{787} \sqrt{91e^{25}} + \frac{5}{787} \sqrt{327e^{34}}$	$(\frac{35}{787}, -\frac{60}{787}, -\frac{60}{787}, \frac{70}{787}, \frac{70}{787}, -\frac{25}{787}, -\frac{25}{787}, \frac{10}{787}, \frac{10}{787})$ $+ \frac{20}{787} \sqrt{87e^1} \otimes e_8$	{1234579, 13567, 256789, 4578, 1234579, 13567, 256789, 4578}
941:168	$0, 0, 0, 0, 0, \frac{20}{787} \sqrt{47e^{12}}, \frac{10}{787} \sqrt{58e^{13}}, \frac{15}{787} \sqrt{41e^{24}} + \frac{5}{787} \sqrt{861e^{35}},$ $\frac{10}{787} \sqrt{246e^{16}} + \frac{15}{787} \sqrt{91e^{25}} + \frac{5}{787} \sqrt{327e^{34}}$	$(\frac{35}{787}, -\frac{60}{787}, -\frac{60}{787}, \frac{70}{787}, \frac{70}{787}, -\frac{25}{787}, -\frac{25}{787}, \frac{10}{787}, \frac{10}{787})$ $+ \frac{20}{787} \sqrt{87e^1} \otimes e_8$	{1234579, 13567, 256789, 4578, 1234579, 13567, 256789, 4578}
941:168	$0, 0, 0, 0, 0, \frac{4}{19} e^{12}, \frac{6}{19} e^{13}, -\frac{1}{19} \sqrt{21e^{24}} + \frac{1}{19} \sqrt{23e^{35}},$ $\frac{4}{19} e^{16} + \frac{1}{19} \sqrt{29e^{25}} + \frac{1}{19} \sqrt{15e^{34}}$	$(-\frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, \frac{1}{19}, 0, 0)$ $+ \frac{6}{19} e^2 \otimes e_7$	{123469, 1478, 289, 367, 123469, 1478, 289, 367}
941:168	$0, 0, 0, 0, 0, \frac{4}{19} e^{12}, \frac{6}{19} e^{13}, \frac{1}{19} \sqrt{21e^{24}} + \frac{1}{19} \sqrt{23e^{35}},$ $\frac{4}{19} e^{16} + \frac{1}{19} \sqrt{29e^{25}} + \frac{1}{19} \sqrt{15e^{34}}$	$(-\frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, \frac{1}{19}, 0, 0)$ $+ \frac{6}{19} e^2 \otimes e_7$	{123469, 1478, 289, 367, 123469, 1478, 289, 367}
941:169	$0, 0, 0, 0, 0, \frac{106}{4237} \sqrt{438e^{12}}, \frac{53}{4237} \sqrt{3126e^{14}} + \frac{106}{4237} \sqrt{471e^{23}},$ $\frac{159}{4237} \sqrt{170e^{13}} + \frac{53}{4237} \sqrt{2978e^{25}}, \frac{106}{4237} \sqrt{111e^{16}} + \frac{53}{4237} \sqrt{938e^{45}}$	$(\frac{901}{4237}, -\frac{954}{4237}, \frac{424}{4237}, -\frac{1431}{4237}, \frac{2279}{4237}, -\frac{53}{4237}, -\frac{530}{4237}, \frac{1325}{4237}, \frac{848}{4237})$ $+ \frac{318}{4237} \sqrt{202e^5} \otimes e_7$	{2359, 24789}
941:169	$0, 0, 0, 0, 0, \frac{3}{4049} \sqrt{670e^{12}}, \frac{3}{4049} \sqrt{4942e^{14}} + \frac{3}{4049} \sqrt{4382e^{23}},$ $\frac{3}{4049} \sqrt{3734e^{13}} + \frac{3}{4049} \sqrt{4510e^{25}}, \frac{108}{4049} e^{16} + \frac{9}{4049} \sqrt{602e^{45}}$	$(-\frac{42}{4049}, \frac{66}{4049}, -\frac{9}{4049}, \frac{99}{4049}, -\frac{117}{4049}, \frac{24}{4049}, \frac{57}{4049}, -\frac{51}{4049}, -\frac{18}{4049})$ $+ \frac{48}{4049} \sqrt{29e^3} \otimes e_9$	{134567, 378}
941:170	$0, 0, 0, 0, 0, \frac{61}{4533} \sqrt{2370e^{12}}, \frac{61}{4533} \sqrt{2558e^{34}},$ $\frac{61}{4533} \sqrt{1730e^{13}} + \frac{61}{4533} \sqrt{714e^{25}}, \frac{122}{4533} \sqrt{235e^{14}} + \frac{61}{4533} \sqrt{866e^{26}} + \frac{61}{1511} \sqrt{142e^{35}}$	$(\frac{671}{1511}, -\frac{488}{4533}, -\frac{244}{1511}, -\frac{976}{4533}, \frac{1769}{4533}, \frac{1525}{4533}, -\frac{1708}{4533}, \frac{427}{1511}, \frac{1037}{4533})$ $+ \frac{244}{4533} \sqrt{470e^1} \otimes e_7$	{1689, 378}
941:170	$0, 0, 0, 0, 0, \frac{5}{881} \sqrt{3990e^{12}}, \frac{20}{881} \sqrt{310e^{34}}, \frac{10}{881} \sqrt{395e^{13}} + \frac{5}{881} \sqrt{1330e^{25}},$ $\frac{5}{881} \sqrt{2910e^{14}} + \frac{5}{881} \sqrt{3990e^{26}} + \frac{10}{881} \sqrt{395e^{35}}$	$(\frac{155}{881}, -\frac{50}{881}, -\frac{75}{881}, -\frac{100}{881}, \frac{130}{881}, \frac{105}{881}, -\frac{175}{881}, \frac{80}{881}, \frac{55}{881})$ $+ \frac{20}{881} \sqrt{485e^2} \otimes e_7$	{14679, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:170	$0, 0, 0, 0, 0, \frac{31}{4013}\sqrt{3398e^{12}}, \frac{31}{4013}\sqrt{1938e^{34}},$ $\frac{403}{4013}\sqrt{6e^{13}} + \frac{31}{4013}\sqrt{5246e^{25}}, \frac{310}{4013}\sqrt{46e^{14}} + \frac{93}{4013}\sqrt{214e^{26}} + \frac{279}{4013}\sqrt{42e^{35}}$	$(-\frac{775}{4013}, \frac{372}{4013}, \frac{558}{4013}, \frac{744}{4013}, -\frac{589}{4013}, -\frac{403}{4013}, \frac{1302}{4013}, -\frac{217}{4013}, -\frac{31}{4013})$ $+\frac{248}{4013}\sqrt{115e^4} \otimes e_8$	{12689, 2378}
941:171	$0, 0, 0, 0, 0, \frac{6}{583}\sqrt{67e^{12}}, \frac{2}{583}\sqrt{1326e^{34}}, \frac{2}{583}\sqrt{1245e^{13}} + \frac{30}{583}\sqrt{5e^{25}},$ $\frac{4}{583}\sqrt{201e^{16}} + \frac{4}{583}\sqrt{15e^{23}} + \frac{12}{583}\sqrt{29e^{45}}$	$(\frac{7}{583}, -\frac{13}{583}, \frac{14}{583}, -\frac{3}{53}, \frac{34}{583}, -\frac{6}{583}, -\frac{19}{583}, \frac{21}{583}, \frac{1}{583})$ $+\frac{6}{583}\sqrt{174e^2} \otimes e_7$	{1467, 2689}
941:172	$0, 0, 0, 0, 0, \frac{9}{113}\sqrt{6e^{12}}, \frac{1}{113}\sqrt{1110e^{34}}, \frac{2}{113}\sqrt{282e^{13}} + \frac{2}{113}\sqrt{237e^{25}},$ $\frac{2}{113}\sqrt{177e^{16}} + \frac{2}{113}\sqrt{282e^{24}} + \frac{1}{113}\sqrt{282e^{35}}$	$(\frac{7}{113}, -\frac{13}{113}, -\frac{19}{226}, \frac{14}{113}, \frac{21}{226}, -\frac{6}{113}, \frac{9}{226}, -\frac{5}{226}, \frac{1}{113})$ $+\frac{3}{113}\sqrt{134e^5} \otimes e_7$	{134568, 1467}
941:172	$0, 0, 0, 0, 0, \frac{6}{95}\sqrt{70e^{12}}, \frac{6}{95}\sqrt{110e^{34}}, \frac{2}{19}\sqrt{33e^{13}} + \frac{4}{95}\sqrt{195e^{25}},$ $\frac{6}{95}\sqrt{65e^{16}} + \frac{4}{95}\sqrt{105e^{24}} + \frac{4}{19}\sqrt{3e^{35}}$	$(-\frac{12}{95}, \frac{29}{95}, \frac{23}{95}, -\frac{24}{95}, -\frac{18}{95}, \frac{17}{95}, -\frac{1}{95}, \frac{11}{95}, \frac{1}{19})$ $+\frac{18}{95}\sqrt{15e^2} \otimes e_7$	{234569, 4578}
941:172	$0, 0, 0, 0, 0, \frac{12}{235}\sqrt{6e^{12}}, \frac{6}{235}\sqrt{30e^{34}}, \frac{24}{235}e^{13} + \frac{1}{235}\sqrt{381e^{25}},$ $\frac{6}{235}\sqrt{30e^{16}} + \frac{1}{235}\sqrt{987e^{24}} + \frac{1}{235}\sqrt{267e^{35}}$	$(\frac{7}{235}, -\frac{27}{470}, -\frac{2}{47}, \frac{14}{235}, \frac{21}{470}, -\frac{13}{470}, \frac{4}{235}, -\frac{3}{235}, \frac{1}{470})$ $+\frac{3}{235}\sqrt{137e^1} \otimes e_7$	{246789, 4578}
941:172	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{15e^{12}}, \frac{5}{41}\sqrt{3e^{34}}, \frac{7}{41}\sqrt{15e^{13}} + \frac{1}{41}\sqrt{255e^{25}},$ $\frac{10}{41}\sqrt{3e^{16}} + \frac{7}{41}\sqrt{15e^{24}} + \frac{1}{41}\sqrt{465e^{35}}$	$(\frac{7}{41}, -\frac{23}{82}, -\frac{8}{41}, \frac{14}{41}, \frac{21}{82}, -\frac{9}{82}, \frac{6}{41}, -\frac{1}{41}, \frac{5}{82})$ $+\frac{15}{41}\sqrt{5e^4} \otimes e_8$	{12689, 158}
941:173	$0, 0, 0, 0, 0, \frac{21}{4589}\sqrt{4294e^{12}}, \frac{42}{4589}\sqrt{473e^{14}} + \frac{63}{4589}\sqrt{10e^{23}},$ $\frac{42}{4589}\sqrt{533e^{13}} + \frac{42}{4589}\sqrt{1081e^{45}}, \frac{21}{4589}\sqrt{4034e^{15}} + \frac{567}{4589}\sqrt{6e^{26}}$	$(\frac{315}{4589}, \frac{210}{4589}, -\frac{42}{353}, -\frac{651}{4589}, \frac{420}{4589}, \frac{525}{4589}, -\frac{336}{4589}, -\frac{231}{4589}, \frac{735}{4589})$ $+\frac{84}{4589}\sqrt{503e^2} \otimes e_8$	{15689, 3578}
941:173	$0, 0, 0, 0, 0, \frac{33}{4121}\sqrt{2270e^{12}}, \frac{33}{4121}\sqrt{458e^{14}} + \frac{33}{4121}\sqrt{5530e^{23}},$ $\frac{33}{4121}\sqrt{3314e^{13}} + \frac{198}{4121}\sqrt{58e^{45}}, \frac{33}{4121}\sqrt{4834e^{15}} + \frac{99}{4121}\sqrt{358e^{26}}$	$(\frac{495}{4121}, \frac{330}{4121}, -\frac{759}{4121}, -\frac{924}{4121}, \frac{660}{4121}, \frac{825}{4121}, -\frac{33}{317}, -\frac{264}{4121}, \frac{1155}{4121})$ $+\frac{66}{4121}\sqrt{1886e^5} \otimes e_7$	{12679, 2478}
941:173	$0, 0, 0, 0, 0, \frac{159}{4381}\sqrt{226e^{12}}, \frac{848}{4381}\sqrt{6e^{14}} + \frac{159}{4381}\sqrt{346e^{23}},$ $\frac{212}{4381}\sqrt{141e^{13}} + \frac{106}{4381}\sqrt{249e^{45}}, \frac{53}{4381}\sqrt{3446e^{15}} + \frac{53}{4381}\sqrt{734e^{26}}$	$(-\frac{477}{4381}, -\frac{318}{4381}, \frac{1696}{4381}, \frac{1855}{4381}, -\frac{636}{4381}, -\frac{795}{4381}, \frac{106}{337}, \frac{1219}{4381}, -\frac{1113}{4381})$ $+\frac{212}{4381}\sqrt{474e^3} \otimes e_9$	{12356, 2579}
941:173	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{114e^{12}}, \frac{5}{81}\sqrt{114e^{14}} + \frac{1}{81}\sqrt{1254e^{23}},$ $\frac{1}{27}\sqrt{114e^{13}} + \frac{2}{81}\sqrt{570e^{45}}, \frac{1}{81}\sqrt{570e^{15}} + \frac{1}{81}\sqrt{3306e^{26}}$	$(-\frac{1}{9}, -\frac{2}{27}, \frac{11}{27}, \frac{4}{9}, -\frac{4}{27}, -\frac{5}{27}, \frac{1}{3}, \frac{8}{27}, -\frac{7}{27})$ $+\frac{2}{81}\sqrt{1938e^4} \otimes e_9$	{1679, 478}
941:174	$0, 0, 0, 0, 0, \frac{7}{13}\sqrt{3e^{12}}, \frac{1}{13}\sqrt{105e^{14}} + \frac{3}{13}\sqrt{7e^{23}},$ $\frac{3}{13}\sqrt{21e^{13}} + \frac{2}{13}\sqrt{42e^{45}}, \frac{4}{13}\sqrt{7e^{16}} + \frac{4}{13}\sqrt{14e^{25}}$	$(-\frac{3}{26}, 0, \frac{4}{13}, \frac{11}{26}, -\frac{3}{13}, -\frac{3}{26}, \frac{4}{13}, \frac{5}{26}, -\frac{3}{13})$ $+\frac{2}{13}\sqrt{42e^3} \otimes e_9$	{134, 368}
941:174	$0, 0, 0, 0, 0, \frac{1}{124}\sqrt{321e^{12}}, \frac{1}{62}\sqrt{93e^{14}} + \frac{1}{124}\sqrt{321e^{23}},$ $\frac{3}{124}\sqrt{30e^{13}} + \frac{1}{62}\sqrt{107e^{45}}, \frac{3}{62}\sqrt{10e^{16}} + \frac{1}{124}\sqrt{394e^{25}}$	$(\frac{5}{248}, 0, -\frac{7}{248}, -\frac{3}{62}, \frac{5}{124}, \frac{5}{248}, -\frac{7}{248}, -\frac{1}{124}, \frac{5}{124})$ $+\frac{1}{62}\sqrt{51e^2} \otimes e_8$	{124579, 234569}
941:174	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{2}e^{14} + \frac{1}{4}e^{23}, \frac{1}{4}\sqrt{6e^{13}} + \frac{1}{2}\sqrt{2e^{45}},$ $\frac{1}{2}\sqrt{2e^{16}} + \frac{1}{4}\sqrt{2e^{25}}$	$(-\frac{1}{8}, 0, \frac{3}{8}, \frac{1}{2}, -\frac{1}{4}, -\frac{1}{8}, \frac{3}{8}, \frac{1}{4}, -\frac{1}{4})$ $+\frac{1}{2}\sqrt{5e^4} \otimes e_9$	{1279, 2369}
941:174	$0, 0, 0, 0, 0, \frac{7}{13}\sqrt{3e^{12}}, \frac{3}{13}\sqrt{21e^{14}} + \frac{3}{13}\sqrt{7e^{23}},$ $\frac{1}{13}\sqrt{105e^{13}} + \frac{4}{13}\sqrt{7e^{45}}, \frac{2}{13}\sqrt{42e^{16}} + \frac{4}{13}\sqrt{14e^{25}}$	$(\frac{5}{26}, 0, -\frac{2}{13}, -\frac{9}{26}, \frac{5}{13}, \frac{5}{26}, -\frac{2}{13}, \frac{1}{26}, \frac{5}{13})$ $+\frac{2}{13}\sqrt{42e^5} \otimes e_7$	{178, 467}
941:175	$0, 0, 0, 0, 0, \frac{7}{3487}\sqrt{262e^{12}}, \frac{28}{3487}\sqrt{199e^{13}} + \frac{7}{3487}\sqrt{3746e^{24}},$ $\frac{28}{3487}\sqrt{258e^{15}} + \frac{252}{3487}\sqrt{3e^{34}}, \frac{7}{3487}\sqrt{1146e^{16}} + \frac{56}{3487}\sqrt{70e^{25}}$	$(\frac{56}{3487}, -\frac{210}{3487}, -\frac{49}{3487}, \frac{217}{3487}, \frac{112}{3487}, -\frac{14}{317}, \frac{7}{3487}, \frac{168}{3487}, -\frac{98}{3487})$ $+\frac{7}{3487}\sqrt{6398e^3} \otimes e_9$	{1346, 378}
941:175	$0, 0, 0, 0, 0, \frac{1}{113}\sqrt{959e^{12}}, \frac{1}{113}\sqrt{861e^{13}} + \frac{1}{113}\sqrt{609e^{24}},$ $\frac{1}{113}\sqrt{861e^{15}} + \frac{6}{113}\sqrt{21e^{34}}, \frac{6}{113}\sqrt{21e^{16}} + \frac{1}{113}\sqrt{609e^{25}}$	$(\frac{4}{113}, -\frac{14}{113}, -\frac{3}{113}, \frac{15}{113}, \frac{8}{113}, -\frac{10}{113}, \frac{1}{113}, \frac{12}{113}, -\frac{6}{113})$ $+\frac{7}{113}\sqrt{31e^5} \otimes e_7$	{126789, 2379}
941:175	$0, 0, 0, 0, 0, \frac{98}{3845}\sqrt{502e^{12}}, \frac{49}{3845}\sqrt{2186e^{13}} + \frac{98}{3845}\sqrt{409e^{24}},$ $\frac{49}{3845}\sqrt{1502e^{15}} + \frac{49}{3845}\sqrt{2246e^{34}}, \frac{49}{3845}\sqrt{402e^{16}} + \frac{49}{3845}\sqrt{714e^{25}}$	$(-\frac{49}{769}, \frac{1666}{3845}, \frac{588}{3845}, -\frac{1323}{3845}, -\frac{98}{769}, \frac{1421}{3845}, \frac{343}{3845}, -\frac{147}{769}, \frac{1176}{3845})$ $+\frac{49}{3845}\sqrt{6454e^2} \otimes e_8$	{23469, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:175	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{21}e^{12}, \frac{1}{45}\sqrt{483}e^{13} + \frac{4}{45}\sqrt{21}e^{24},$ $\frac{1}{45}\sqrt{483}e^{15} + \frac{2}{45}\sqrt{210}e^{34}, \frac{2}{45}\sqrt{210}e^{16} + \frac{4}{45}\sqrt{21}e^{25}$	$(\frac{1}{9}, -\frac{14}{45}, -\frac{2}{45}, \frac{17}{45}, \frac{2}{9}, -\frac{1}{5}, \frac{1}{15}, \frac{1}{3}, -\frac{4}{45})$ $+ \frac{7}{45}\sqrt{33}e^4 \otimes e_9$	{13467, 478}
941:179	$0, 0, 0, 0, 0, \frac{47}{4005}\sqrt{2534}e^{12}, \frac{188}{4005}\sqrt{190}e^{13},$ $\frac{94}{4005}\sqrt{101}e^{14} + \frac{47}{4005}\sqrt{34}e^{23}, \frac{47}{4005}\sqrt{2262}e^{15} + \frac{235}{801}\sqrt{6}e^{26} + \frac{94}{4005}\sqrt{253}e^{34}$	$(-\frac{893}{4005}, \frac{94}{445}, -\frac{94}{801}, \frac{141}{445}, \frac{188}{445}, -\frac{47}{4005}, -\frac{1363}{4005}, \frac{376}{4005}, \frac{799}{4005})$ $+ \frac{94}{4005}\sqrt{1722}e^2 \otimes e_7$	{15679, 3578}
941:179	$0, 0, 0, 0, 0, \frac{61}{3789}\sqrt{1546}e^{12}, \frac{122}{3789}\sqrt{595}e^{13},$ $\frac{122}{3789}\sqrt{218}e^{14} + \frac{61}{3789}\sqrt{1018}e^{23}, \frac{61}{1263}\sqrt{354}e^{15} + \frac{61}{1263}\sqrt{66}e^{26} + \frac{122}{3789}\sqrt{337}e^{34}$	$(-\frac{1037}{3789}, \frac{122}{421}, -\frac{488}{3789}, \frac{183}{421}, \frac{244}{421}, \frac{61}{3789}, -\frac{1525}{3789}, \frac{610}{3789}, \frac{1159}{3789})$ $+ \frac{122}{3789}\sqrt{1626}e^5 \otimes e_7$	{179, 3678}
941:179	$0, 0, 0, 0, 0, \frac{8}{27}\sqrt{5}e^{12}, \frac{4}{27}\sqrt{21}e^{13}, \frac{4}{27}\sqrt{21}e^{14} + \frac{8}{27}\sqrt{6}e^{23},$ $\frac{8}{27}\sqrt{6}e^{15} + \frac{4}{27}\sqrt{19}e^{26} + \frac{4}{27}\sqrt{2}e^{34}$	$(\frac{8}{27}, -\frac{4}{27}, \frac{2}{9}, -\frac{2}{9}, -\frac{8}{27}, \frac{4}{27}, \frac{14}{27}, \frac{2}{27}, 0)$ $+ \frac{4}{27}\sqrt{47}e^1 \otimes e_5$	{357, 458}
941:179	$0, 0, 0, 0, 0, \frac{9}{1147}\sqrt{3090}e^{12}, \frac{9}{1147}\sqrt{1974}e^{13},$ $\frac{9}{1147}\sqrt{1290}e^{14} + \frac{9}{1147}\sqrt{5154}e^{23}, \frac{9}{1147}\sqrt{5154}e^{15} + \frac{27}{1147}\sqrt{286}e^{26} + \frac{54}{1147}\sqrt{62}e^{34}$	$(-\frac{171}{1147}, \frac{144}{1147}, -\frac{99}{1147}, \frac{216}{1147}, \frac{288}{1147}, -\frac{27}{1147}, -\frac{270}{1147}, \frac{45}{1147}, \frac{117}{1147})$ $+ \frac{54}{1147}\sqrt{102}e^5 \otimes e_8$	{12689, 2478}
941:180	$0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{678}e^{13}, \frac{14}{587}\sqrt{915}e^{14} + \frac{14}{587}\sqrt{393}e^{23},$ $\frac{14}{587}\sqrt{102}e^{16} + \frac{14}{587}\sqrt{678}e^{24} + \frac{14}{587}\sqrt{942}e^{35}$	$(-\frac{7}{587}, \frac{133}{587}, -\frac{154}{587}, -\frac{14}{587}, \frac{273}{587}, \frac{126}{587}, -\frac{161}{587}, -\frac{21}{587}, \frac{119}{587})$ $- \frac{42}{587}\sqrt{174}e^5 \otimes e_8$	{128, 136789, 2356, 579}
941:180	$0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{678}e^{13}, \frac{14}{587}\sqrt{915}e^{14} + \frac{14}{587}\sqrt{393}e^{23},$ $\frac{14}{587}\sqrt{102}e^{16} + \frac{14}{587}\sqrt{678}e^{24} + \frac{14}{587}\sqrt{942}e^{35}$	$(-\frac{7}{587}, \frac{133}{587}, -\frac{154}{587}, -\frac{14}{587}, \frac{273}{587}, \frac{126}{587}, -\frac{161}{587}, -\frac{21}{587}, \frac{119}{587})$ $+ \frac{42}{587}\sqrt{174}e^5 \otimes e_8$	{128, 136789, 2356, 579}
941:180	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{15}\sqrt{165}e^{13}, \frac{1}{15}\sqrt{30}e^{14} + \frac{1}{30}\sqrt{390}e^{23},$ $\frac{1}{15}\sqrt{105}e^{16} + \frac{1}{6}\sqrt{6}e^{24} + \frac{1}{3}\sqrt{6}e^{35}$	$(0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{2}{3}, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3})$ $+ \frac{1}{10}\sqrt{170}e^5 \otimes e_7$	{178, 259}
941:180	$0, 0, 0, 0, 0, \frac{19}{389}\sqrt{158}e^{12}, \frac{19}{1167}\sqrt{3054}e^{13},$ $\frac{38}{1167}\sqrt{366}e^{14} + \frac{38}{1167}\sqrt{645}e^{23}, \frac{38}{1167}\sqrt{21}e^{16} + \frac{38}{1167}\sqrt{258}e^{24} + \frac{19}{1167}\sqrt{1938}e^{35}$	$(\frac{38}{389}, -\frac{209}{1167}, \frac{551}{1167}, \frac{76}{389}, \frac{532}{1167}, -\frac{95}{1167}, \frac{665}{1167}, \frac{114}{389}, \frac{19}{1167})$ $+ \frac{19}{389}\sqrt{674}e^3 \otimes e_5$	{1245678, 2347}
941:180	$0, 0, 0, 0, 0, \frac{378}{1063}e^{12}, \frac{14}{1063}\sqrt{1194}e^{13}, \frac{7}{1063}\sqrt{1770}e^{14} + \frac{7}{1063}\sqrt{2298}e^{23},$ $\frac{7}{1063}\sqrt{3270}e^{16} + \frac{14}{1063}\sqrt{1194}e^{24} + \frac{14}{1063}\sqrt{309}e^{35}$	$(-\frac{14}{1063}, \frac{119}{1063}, -\frac{161}{1063}, -\frac{28}{1063}, \frac{252}{1063}, \frac{105}{1063}, -\frac{175}{1063}, -\frac{42}{1063}, \frac{91}{1063})$ $+ \frac{21}{1063}\sqrt{678}e^4 \otimes e_7$	{1578, 367}
941:181	$0, 0, 0, 0, 0, \frac{11}{189}\sqrt{105}e^{12}, \frac{11}{189}\sqrt{182}e^{13}, \frac{11}{189}\sqrt{182}e^{14} + \frac{11}{189}\sqrt{137}e^{23},$ $\frac{22}{189}\sqrt{43}e^{16} + \frac{11}{189}\sqrt{131}e^{25} + \frac{88}{189}e^{34}$	$(-\frac{22}{189}, \frac{11}{27}, -\frac{11}{63}, \frac{22}{63}, -\frac{44}{189}, \frac{55}{189}, -\frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{335}e^4 \otimes e_7$	{134, 178}
941:181	$0, 0, 0, 0, 0, \frac{11}{189}\sqrt{230}e^{12}, \frac{11}{63}\sqrt{17}e^{13}, \frac{11}{63}\sqrt{17}e^{14} + \frac{11}{63}\sqrt{22}e^{23},$ $\frac{11}{189}\sqrt{163}e^{16} + \frac{22}{189}\sqrt{51}e^{25} + \frac{88}{189}e^{34}$	$(-\frac{22}{189}, \frac{11}{27}, -\frac{11}{63}, \frac{22}{63}, -\frac{44}{189}, \frac{55}{189}, -\frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{335}e^2 \otimes e_5$	{1345678, 156}
941:181	$0, 0, 0, 0, 0, \frac{49}{3229}\sqrt{214}e^{12}, \frac{49}{3229}\sqrt{2582}e^{13},$ $\frac{98}{3229}\sqrt{42}e^{14} + \frac{49}{3229}\sqrt{219}e^{23}, \frac{49}{3229}\sqrt{886}e^{16} + \frac{49}{3229}\sqrt{2526}e^{25} + \frac{98}{3229}\sqrt{331}e^{34}$	$(-\frac{392}{3229}, \frac{1421}{3229}, -\frac{588}{3229}, \frac{1225}{3229}, -\frac{784}{3229}, \frac{1029}{3229}, -\frac{980}{3229}, \frac{833}{3229}, \frac{637}{3229})$ $+ \frac{490}{3229}\sqrt{55}e^2 \otimes e_7$	{1235, 15679}
941:181	$0, 0, 0, 0, 0, \frac{29}{2909}\sqrt{3314}e^{12}, \frac{29}{2909}\sqrt{1302}e^{13},$ $\frac{58}{2909}\sqrt{998}e^{14} + \frac{29}{2909}\sqrt{165}e^{23}, \frac{29}{2909}\sqrt{2238}e^{16} + \frac{29}{2909}\sqrt{4426}e^{25} + \frac{58}{2909}\sqrt{642}e^{34}$	$(\frac{348}{2909}, -\frac{667}{2909}, \frac{522}{2909}, -\frac{493}{2909}, \frac{696}{2909}, -\frac{319}{2909}, \frac{870}{2909}, -\frac{145}{2909}, \frac{29}{2909})$ $+ \frac{58}{2909}\sqrt{1345}e^5 \otimes e_8$	{126789, 138}
941:181	$0, 0, 0, 0, 0, \frac{1}{109}\sqrt{138}e^{12}, \frac{14}{109}e^{13}, \frac{3}{109}\sqrt{10}e^{14} + \frac{2}{109}\sqrt{23}e^{23},$ $\frac{1}{109}\sqrt{138}e^{16} + \frac{1}{109}\sqrt{226}e^{25} + \frac{2}{109}\sqrt{23}e^{34}$	$(-\frac{2}{109}, \frac{5}{109}, -\frac{3}{109}, \frac{4}{109}, -\frac{4}{109}, \frac{3}{109}, -\frac{5}{109}, \frac{2}{109}, \frac{1}{109})$ $+ \frac{2}{109}\sqrt{53}e^5 \otimes e_7$	{234789, 367}
941:182	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{69}e^{12}, \frac{2}{35}\sqrt{69}e^{14} - \frac{2}{35}\sqrt{138}e^{23},$ $\frac{3}{35}\sqrt{46}e^{13} + \frac{1}{35}\sqrt{138}e^{24}, \frac{1}{35}\sqrt{506}e^{15} + \frac{1}{35}\sqrt{230}e^{26}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{2}{5}, \frac{2}{5}, -\frac{6}{35}, -\frac{6}{35}, \frac{11}{35}, \frac{11}{35}, -\frac{9}{35})$ $+ \frac{2}{35}\sqrt{345}e^3 \otimes e_9$	{12356, 13457, 2579, 4569, 12356, 13457, 2579, 4569}
941:182	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{69}e^{12}, \frac{2}{35}\sqrt{69}e^{14} + \frac{2}{35}\sqrt{138}e^{23},$ $\frac{3}{35}\sqrt{46}e^{13} + \frac{1}{35}\sqrt{138}e^{24}, \frac{1}{35}\sqrt{506}e^{15} + \frac{1}{35}\sqrt{230}e^{26}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{2}{5}, \frac{2}{5}, -\frac{6}{35}, -\frac{6}{35}, \frac{11}{35}, \frac{11}{35}, -\frac{9}{35})$ $+ \frac{2}{35}\sqrt{345}e^3 \otimes e_9$	{12356, 13457, 2579, 4569, 12356, 13457, 2579, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:182	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{14}e^{12}, \frac{2}{45}\sqrt{14}e^{14} - \frac{1}{45}\sqrt{57}e^{23},$ $\frac{2}{45}\sqrt{14}e^{13} + \frac{1}{45}\sqrt{57}e^{24}, \frac{2}{45}\sqrt{19}e^{15} + \frac{1}{45}\sqrt{65}e^{26}$	$(-\frac{1}{45}, -\frac{1}{45}, \frac{1}{15}, \frac{1}{15}, -\frac{2}{45}, -\frac{2}{45}, \frac{2}{45}, \frac{2}{45}, -\frac{1}{15})$ $+ \frac{1}{45}\sqrt{85}e^1 \otimes e_5$	{2345678, 256, 358, 2345678, 256, 358}
941:182	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{14}e^{12}, \frac{2}{45}\sqrt{14}e^{14} + \frac{1}{45}\sqrt{57}e^{23},$ $\frac{2}{45}\sqrt{14}e^{13} + \frac{1}{45}\sqrt{57}e^{24}, \frac{2}{45}\sqrt{19}e^{15} + \frac{1}{45}\sqrt{65}e^{26}$	$(-\frac{1}{45}, -\frac{1}{45}, \frac{1}{15}, \frac{1}{15}, -\frac{2}{45}, -\frac{2}{45}, \frac{2}{45}, \frac{2}{45}, -\frac{1}{15})$ $+ \frac{1}{45}\sqrt{85}e^1 \otimes e_5$	{2345678, 256, 358, 2345678, 256, 358}
941:183	$0, 0, 0, 0, 0, \frac{48}{295}\sqrt{3}e^{12}, \frac{48}{295}\sqrt{3}e^{13} + \frac{36}{295}\sqrt{5}e^{24},$ $\frac{3}{295}\sqrt{426}e^{15} + \frac{39}{295}\sqrt{6}e^{23}, \frac{39}{295}\sqrt{6}e^{14} + \frac{63}{295}\sqrt{2}e^{26}$	$(\frac{33}{295}, \frac{3}{295}, -\frac{24}{295}, \frac{6}{295}, -\frac{54}{295}, \frac{36}{295}, \frac{9}{295}, -\frac{21}{295}, \frac{39}{295})$ $+ \frac{6}{295}\sqrt{417}e^4 \otimes e_8$	{2578, 3568}
941:183	$0, 0, 0, 0, 0, \frac{52}{1255}\sqrt{66}e^{12}, \frac{26}{1255}\sqrt{579}e^{13} + \frac{26}{1255}\sqrt{969}e^{24},$ $\frac{13}{1255}\sqrt{4254}e^{15} + \frac{13}{1255}\sqrt{3246}e^{23}, \frac{13}{1255}\sqrt{3246}e^{14} + \frac{117}{1255}\sqrt{14}e^{26}$	$(-\frac{247}{1255}, \frac{13}{1255}, \frac{286}{1255}, \frac{26}{1255}, \frac{546}{1255}, -\frac{234}{1255}, \frac{39}{1255}, \frac{299}{1255}, -\frac{221}{1255})$ $+ \frac{26}{1255}\sqrt{1686}e^5 \otimes e_7$	{135, 5689}
941:183	$0, 0, 0, 0, 0, \frac{52}{1255}\sqrt{66}e^{12}, \frac{26}{1255}\sqrt{579}e^{13} + \frac{26}{1255}\sqrt{717}e^{24},$ $\frac{13}{1255}\sqrt{2490}e^{15} + \frac{13}{1255}\sqrt{3498}e^{23}, \frac{13}{1255}\sqrt{3498}e^{14} + \frac{117}{1255}\sqrt{14}e^{26}$	$(-\frac{247}{1255}, \frac{13}{1255}, \frac{286}{1255}, \frac{26}{1255}, \frac{546}{1255}, -\frac{234}{1255}, \frac{39}{1255}, \frac{299}{1255}, -\frac{221}{1255})$ $+ \frac{26}{1255}\sqrt{1686}e^3 \otimes e_9$	{13458, 4569}
941:183	$0, 0, 0, 0, 0, \frac{7}{60}\sqrt{37}e^{12}, \frac{7}{60}\sqrt{37}e^{13} + \frac{7}{120}\sqrt{130}e^{24},$ $\frac{7}{60}\sqrt{31}e^{15} + \frac{7}{120}\sqrt{2}e^{23}, \frac{7}{60}\sqrt{35}e^{14} + \frac{7}{40}\sqrt{2}e^{26}$	$(\frac{7}{20}, \frac{7}{120}, -\frac{7}{40}, \frac{7}{60}, -\frac{7}{15}, \frac{49}{120}, \frac{7}{40}, -\frac{7}{60}, \frac{7}{15})$ $+ \frac{7}{40}\sqrt{46}e^1 \otimes e_5$	{1239, 1679}
941:183	$0, 0, 0, 0, 0, \frac{116}{1005}\sqrt{5}e^{12}, \frac{116}{1005}\sqrt{5}e^{13} + \frac{232}{1005}e^{24},$ $\frac{29}{1005}\sqrt{734}e^{15} + \frac{29}{1005}\sqrt{298}e^{23}, \frac{29}{1005}\sqrt{266}e^{14} + \frac{29}{335}\sqrt{78}e^{26}$	$(-\frac{87}{335}, \frac{29}{1005}, \frac{116}{335}, \frac{58}{1005}, \frac{638}{1005}, -\frac{232}{1005}, \frac{29}{335}, \frac{377}{1005}, -\frac{203}{1005})$ $+ \frac{58}{335}\sqrt{47}e^5 \otimes e_9$	{2479, 3469}
941:184	$0, 0, 0, 0, 0, \frac{68}{1511}\sqrt{159}e^{12}, \frac{34}{1511}\sqrt{978}e^{13},$ $\frac{17}{1511}\sqrt{2310}e^{14} + \frac{459}{1511}\sqrt{6}e^{25}, \frac{34}{1511}\sqrt{663}e^{15} + \frac{51}{1511}\sqrt{206}e^{26} + \frac{102}{1511}\sqrt{13}e^{34}$	$(-\frac{119}{1511}, \frac{170}{1511}, -\frac{408}{1511}, \frac{629}{1511}, \frac{340}{1511}, \frac{51}{1511}, -\frac{527}{1511}, \frac{510}{1511}, \frac{221}{1511})$ $+ \frac{17}{1511}\sqrt{8070}e^5 \otimes e_7$	{179, 2378}
941:184	$0, 0, 0, 0, 0, \frac{68}{2451}\sqrt{165}e^{12}, \frac{68}{2451}\sqrt{653}e^{13},$ $\frac{68}{2451}\sqrt{590}e^{14} + \frac{68}{817}\sqrt{14}e^{25}, \frac{136}{817}\sqrt{13}e^{15} + \frac{68}{2451}\sqrt{71}e^{26} + \frac{68}{2451}\sqrt{535}e^{34}$	$(-\frac{68}{817}, \frac{374}{2451}, -\frac{782}{2451}, \frac{442}{817}, \frac{748}{2451}, \frac{170}{2451}, -\frac{986}{2451}, \frac{374}{817}, \frac{544}{2451})$ $+ \frac{68}{2451}\sqrt{2045}e^4 \otimes e_7$	{12678, 134, 2489, 3679}
941:184	$0, 0, 0, 0, 0, \frac{68}{2451}\sqrt{165}e^{12}, \frac{68}{2451}\sqrt{653}e^{13},$ $\frac{68}{2451}\sqrt{590}e^{14} + \frac{68}{817}\sqrt{14}e^{25}, \frac{136}{817}\sqrt{13}e^{15} + \frac{68}{2451}\sqrt{71}e^{26} + \frac{68}{2451}\sqrt{535}e^{34}$	$(-\frac{68}{817}, \frac{374}{2451}, -\frac{782}{2451}, \frac{442}{817}, \frac{748}{2451}, \frac{170}{2451}, -\frac{986}{2451}, \frac{374}{817}, \frac{544}{2451})$ $- \frac{68}{2451}\sqrt{2045}e^4 \otimes e_7$	{12678, 134, 2489, 3679}
941:184	$0, 0, 0, 0, 0, \frac{44}{611}\sqrt{39}e^{12}, \frac{22}{611}\sqrt{262}e^{13}, \frac{66}{611}\sqrt{10}e^{14} + \frac{22}{611}\sqrt{174}e^{25},$ $\frac{22}{611}\sqrt{203}e^{15} + \frac{22}{611}\sqrt{226}e^{26} + \frac{2}{611}\sqrt{38}e^{34}$	$(-\frac{44}{611}, \frac{55}{611}, -\frac{11}{47}, \frac{209}{611}, \frac{110}{611}, \frac{11}{611}, -\frac{187}{611}, \frac{165}{611}, \frac{66}{611})$ $+ \frac{22}{611}\sqrt{530}e^2 \otimes e_7$	{2456, 3578}
941:185	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{95}e^{12}, \frac{3}{19}\sqrt{5}e^{13}, \frac{1}{19}\sqrt{105}e^{14} + \frac{3}{19}\sqrt{5}e^{25},$ $\frac{2}{19}\sqrt{15}e^{16} + \frac{1}{19}\sqrt{105}e^{23} + \frac{2}{19}\sqrt{15}e^{45}$	$(\frac{2}{19}, -\frac{4}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{3}{19}, -\frac{2}{19}, \frac{6}{19}, -\frac{1}{19}, 0)$ $+ \frac{5}{19}\sqrt{7}e^3 \otimes e_8$	{126789, 1578}
941:185	$0, 0, 0, 0, 0, \frac{5}{181}\sqrt{205}e^{12}, \frac{10}{181}\sqrt{185}e^{13}, \frac{10}{181}\sqrt{105}e^{14} + \frac{5}{181}\sqrt{205}e^{25},$ $\frac{10}{181}\sqrt{130}e^{16} + \frac{5}{181}\sqrt{105}e^{23} + \frac{10}{181}\sqrt{185}e^{45}$	$(-\frac{20}{181}, \frac{75}{181}, -\frac{40}{181}, \frac{65}{181}, -\frac{30}{181}, \frac{55}{181}, -\frac{60}{181}, \frac{45}{181}, \frac{35}{181})$ $+ \frac{75}{181}\sqrt{7}e^4 \otimes e_7$	{123469, 1345}
941:185	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{6}e^{12}, \frac{1}{233}\sqrt{5010}e^{13}, \frac{3}{233}\sqrt{430}e^{14} + \frac{2}{233}\sqrt{930}e^{25},$ $\frac{5}{233}\sqrt{6}e^{16} + \frac{3}{233}\sqrt{430}e^{23} + \frac{2}{233}\sqrt{930}e^{45}$	$(-\frac{10}{233}, \frac{28}{233}, -\frac{20}{233}, \frac{23}{233}, -\frac{15}{233}, \frac{18}{233}, -\frac{30}{233}, \frac{13}{233}, \frac{8}{233})$ $+ \frac{5}{233}\sqrt{258}e^5 \otimes e_7$	{123569, 13458}
941:185	$0, 0, 0, 0, 0, \frac{176}{769}\sqrt{5}e^{12}, \frac{11}{769}\sqrt{2570}e^{13},$ $\frac{22}{769}\sqrt{430}e^{14} + \frac{11}{769}\sqrt{2570}e^{25}, \frac{11}{769}\sqrt{10}e^{16} + \frac{11}{769}\sqrt{430}e^{23} + \frac{11}{769}\sqrt{10}e^{45}$	$(-\frac{88}{769}, \frac{341}{769}, -\frac{176}{769}, \frac{297}{769}, -\frac{132}{769}, \frac{253}{769}, -\frac{264}{769}, \frac{209}{769}, \frac{165}{769})$ $+ \frac{55}{769}\sqrt{258}e^2 \otimes e_7$	{12348, 1235}
941:186	$0, 0, 0, 0, 0, \frac{11}{3181}\sqrt{798}e^{12}, \frac{11}{3181}\sqrt{4978}e^{13},$ $\frac{22}{3181}\sqrt{906}e^{14} + \frac{66}{3181}\sqrt{101}e^{25}, \frac{22}{3181}\sqrt{65}e^{16} + \frac{11}{3181}\sqrt{3766}e^{24} + \frac{11}{3181}\sqrt{3890}e^{35}$	$(\frac{77}{3181}, -\frac{121}{3181}, -\frac{319}{3181}, \frac{154}{3181}, \frac{352}{3181}, -\frac{44}{3181}, -\frac{242}{3181}, \frac{231}{3181}, \frac{33}{3181})$ $+ \frac{22}{3181}\sqrt{1478}e^2 \otimes e_7$	{123569, 289}
941:186	$0, 0, 0, 0, 0, \frac{204}{1135}\sqrt{10}e^{12}, \frac{51}{1135}\sqrt{358}e^{13},$ $\frac{17}{1135}\sqrt{1158}e^{14} + \frac{51}{1135}\sqrt{326}e^{25}, \frac{34}{1135}\sqrt{141}e^{16} + \frac{34}{227}\sqrt{3}e^{24} + \frac{51}{1135}\sqrt{34}e^{35}$	$(\frac{153}{1135}, -\frac{136}{1135}, -\frac{85}{227}, \frac{306}{1135}, \frac{119}{227}, \frac{17}{1135}, -\frac{272}{1135}, \frac{459}{1135}, \frac{34}{227})$ $+ \frac{918}{1135}\sqrt{2}e^5 \otimes e_7$	{17, 23789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:194	$0, 0, 0, 0, 0, \frac{1}{729}\sqrt{66378}e^{12}, \frac{1}{729}\sqrt{4810}e^{13}, \frac{1}{729}\sqrt{131794}e^{23},$ $\frac{74}{729}\sqrt{26}e^{17} + \frac{1}{243}\sqrt{4810}e^{26}$	$(-\frac{1}{729}, -\frac{10}{243}, -\frac{59}{729}, \frac{392}{729}, \frac{140}{243}, -\frac{31}{729}, -\frac{20}{243}, -\frac{89}{729}, -\frac{61}{729})$ $+ \frac{1}{729}\sqrt{297258}e^4 \otimes e_8 + \frac{1}{729}\sqrt{324194}e^5 \otimes e_9$	{125678, 1457, 23479, 36789}
941:194	$0, 0, 0, 0, 0, \frac{99}{6781}\sqrt{134}e^{12}, \frac{33}{6781}\sqrt{2930}e^{13}, \frac{1980}{6781}e^{23},$ $\frac{33}{6781}\sqrt{3918}e^{17} + \frac{66}{6781}\sqrt{335}e^{26}$	$(\frac{594}{6781}, \frac{33}{6781}, -\frac{528}{6781}, -\frac{1617}{6781}, \frac{1749}{6781}, \frac{627}{6781}, \frac{66}{6781}, -\frac{495}{6781}, \frac{660}{6781})$ $+ \frac{33}{6781}\sqrt{2378}e^5 \otimes e_9 + \frac{33}{6781}\sqrt{4354}e^3 \otimes e_4 + \frac{33}{6781}\sqrt{5710}e^1 \otimes e_8$	{12369, 2458}
941:194	$0, 0, 0, 0, 0, \frac{14}{2889}\sqrt{7259}e^{12}, \frac{14}{2889}\sqrt{9265}e^{13}, \frac{14}{2889}\sqrt{7905}e^{23},$ $\frac{14}{2889}\sqrt{10302}e^{17} + \frac{56}{2889}\sqrt{170}e^{26}$	$(-\frac{389}{2889}, \frac{137}{2889}, \frac{221}{963}, \frac{517}{963}, -\frac{1003}{2889}, -\frac{28}{321}, \frac{274}{2889}, \frac{800}{2889}, -\frac{115}{2889})$ $+ \frac{112}{2889}\sqrt{323}e^4 \otimes e_9 + \frac{14}{2889}\sqrt{22746}e^3 \otimes e_5$	{1245678, 1457, 2379, 36789}
941:194	$0, 0, 0, 0, 0, \frac{1}{1091}\sqrt{351866}e^{12}, \frac{6}{1091}\sqrt{4029}e^{13}, \frac{5}{1091}\sqrt{51034}e^{23},$ $\frac{2}{1091}\sqrt{103411}e^{17} + \frac{1}{1091}\sqrt{400214}e^{26}$	$(\frac{213}{1091}, -\frac{13}{1091}, -\frac{239}{1091}, 1, \frac{182}{1091}, \frac{200}{1091}, -\frac{26}{1091}, -\frac{252}{1091}, \frac{187}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_8$	{125689, 12689, 1459, 149, 234, 2345, 3568, 368}
941:194	$0, 0, 0, 0, 0, \frac{2}{1011}\sqrt{1779}e^{12}, \frac{4}{3033}\sqrt{72346}e^{13}, \frac{2}{3033}\sqrt{298279}e^{23},$ $\frac{2}{3033}\sqrt{610790}e^{17} + \frac{2}{3033}\sqrt{17790}e^{26}$	$(\frac{449}{3033}, -\frac{32}{1011}, -\frac{641}{3033}, \frac{481}{1011}, \frac{350}{3033}, \frac{353}{3033}, -\frac{64}{1011}, -\frac{737}{3033}, \frac{257}{3033})$ $+ \frac{2}{3033}\sqrt{648149}e^4 \otimes e_9 + \frac{2}{3033}\sqrt{942870}e^1 \otimes e_8$	{123569, 12369, 2458, 248}
941:194	$0, 0, 0, 0, 0, \frac{2}{3621}\sqrt{137855}e^{12}, \frac{2}{3621}\sqrt{359845}e^{13}, \frac{2}{3621}\sqrt{488615}e^{23},$ $\frac{2}{3621}\sqrt{415145}e^{17} + \frac{4}{3621}\sqrt{64385}e^{26}$	$(\frac{539}{3621}, \frac{32}{1207}, -\frac{347}{3621}, -\frac{379}{1207}, \frac{332}{3621}, \frac{635}{3621}, \frac{64}{1207}, -\frac{251}{3621}, \frac{43}{213})$ $+ \frac{20}{3621}\sqrt{7189}e^1 \otimes e_8 + \frac{2}{3621}\sqrt{580255}e^3 \otimes e_4$	{123569, 12369, 2458, 248}
941:194	$0, 0, 0, 0, 0, \frac{2}{3189}\sqrt{59570}e^{12}, \frac{4}{3189}\sqrt{109779}e^{13}, \frac{8}{1063}\sqrt{4255}e^{23},$ $\frac{4}{3189}\sqrt{189773}e^{17} + \frac{4}{3189}\sqrt{86802}e^{26}$	$(\frac{860}{3189}, \frac{2}{1063}, -\frac{848}{3189}, \frac{413}{1063}, -\frac{463}{3189}, \frac{866}{3189}, \frac{4}{1063}, -\frac{842}{3189}, \frac{872}{3189})$ $+ \frac{10}{3189}\sqrt{66378}e^1 \otimes e_8 + \frac{1702}{3189}e^4 \otimes e_5$	{1467, 1567, 34789, 35789}
941:194	$0, 0, 0, 0, 0, \frac{1}{93}\sqrt{745}e^{12}, \frac{1}{31}\sqrt{149}e^{13}, \frac{1}{93}\sqrt{745}e^{23},$ $\frac{2}{93}\sqrt{298}e^{17} + \frac{2}{93}\sqrt{298}e^{26}$	$(\frac{5}{62}, \frac{19}{186}, \frac{23}{186}, 1, -\frac{56}{93}, \frac{17}{93}, \frac{19}{93}, \frac{7}{31}, \frac{53}{186})$ $+ \frac{149}{93}e^4 \otimes e_5$	{12349, 12359, 134689, 135689, 2468, 2568, 4, 5}
941:194	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{8555}e^{12}, \frac{18}{281}\sqrt{145}e^{13}, \frac{2}{281}\sqrt{14065}e^{23},$ $\frac{2}{281}\sqrt{6670}e^{17} + \frac{8}{281}\sqrt{290}e^{26}$	$(-\frac{21}{281}, \frac{41}{281}, \frac{103}{281}, -\frac{187}{281}, \frac{47}{281}, \frac{20}{281}, \frac{82}{281}, \frac{144}{281}, \frac{61}{281})$ $+ \frac{6}{281}\sqrt{3770}e^3 \otimes e_4$	{123569, 12369, 13589, 1389, 2458, 248, 456, 46}
941:194	$0, 0, 0, 0, 0, \frac{6}{3041}\sqrt{4015}e^{12}, \frac{30}{3041}\sqrt{2701}e^{13}, \frac{6}{3041}\sqrt{23433}e^{23},$ $\frac{12}{3041}\sqrt{12410}e^{17} + \frac{24}{3041}\sqrt{1022}e^{26}$	$(\frac{211}{3041}, \frac{287}{3041}, \frac{363}{3041}, -\frac{1103}{3041}, -\frac{951}{3041}, \frac{498}{3041}, \frac{574}{3041}, \frac{650}{3041}, \frac{785}{3041})$ $+ \frac{12}{3041}\sqrt{26134}e^1 \otimes e_4 + \frac{96}{3041}\sqrt{365}e^3 \otimes e_5$	{12369, 1389, 2458, 456}
941:194	$0, 0, 0, 0, 0, \frac{14}{587}\sqrt{237}e^{12}, \frac{126}{587}e^{13}, \frac{14}{587}\sqrt{393}e^{23},$ $\frac{14}{587}\sqrt{102}e^{17} + \frac{28}{587}\sqrt{66}e^{26}$	$(-\frac{7}{587}, \frac{63}{587}, \frac{133}{587}, -\frac{231}{587}, -\frac{161}{587}, \frac{56}{587}, \frac{126}{587}, \frac{196}{587}, \frac{119}{587})$ $+ \frac{14}{587}\sqrt{678}e^3 \otimes e_5 + \frac{28}{587}\sqrt{222}e^2 \otimes e_4$	{125789, 145679, 2367, 3478}
941:194	$0, 0, 0, 0, 0, \frac{6}{1219}\sqrt{6063}e^{12}, \frac{12}{1219}\sqrt{329}e^{13}, \frac{12}{1219}\sqrt{1598}e^{23},$ $\frac{12}{1219}\sqrt{1222}e^{17} + \frac{3}{1219}\sqrt{8366}e^{26}$	$(\frac{267}{1219}, \frac{37}{1219}, -\frac{193}{1219}, \frac{386}{1219}, \frac{135}{1219}, \frac{304}{1219}, \frac{74}{1219}, -\frac{156}{1219}, \frac{341}{1219})$ $+ \frac{3}{1219}\sqrt{48974}e^2 \otimes e_4 + \frac{3}{1219}\sqrt{52922}e^1 \otimes e_8$	{12359, 1239, 2568, 268}
941:194	$0, 0, 0, 0, 0, \frac{1}{48}\sqrt{214}e^{12}, \frac{1}{96}\sqrt{1819}e^{13}, \frac{1}{48}\sqrt{214}e^{23},$ $\frac{5}{96}\sqrt{214}e^{17} + \frac{5}{96}\sqrt{214}e^{26}$	$(-\frac{1}{8}, \frac{1}{192}, \frac{13}{96}, 1, \frac{35}{192}, -\frac{23}{192}, \frac{1}{96}, \frac{9}{64}, -\frac{11}{96})$ $+ \frac{1}{96}\sqrt{16799}e^4 \otimes e_9$	{124567, 12467, 14578, 1478, 235789, 23789, 35679, 3679}
941:194	$0, 0, 0, 0, 0, \frac{2}{153}\sqrt{357}e^{12}, \frac{4}{153}\sqrt{34}e^{13}, \frac{2}{153}\sqrt{391}e^{23},$ $\frac{2}{153}\sqrt{374}e^{17} + \frac{2}{51}\sqrt{34}e^{26}$	$(\frac{1}{9}, 0, -\frac{1}{9}, -\frac{2}{9}, \frac{1}{3}, \frac{1}{9}, 0, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{2}{153}\sqrt{629}e^5 \otimes e_9 + \frac{2}{51}\sqrt{102}e^1 \otimes e_8 + \frac{8}{153}\sqrt{51}e^2 \otimes e_4$	{1239, 2568}
941:194	$0, 0, 0, 0, 0, \frac{2}{3369}\sqrt{167555}e^{12}, \frac{2}{3369}\sqrt{495535}e^{13}, \frac{2}{3369}\sqrt{221743}e^{23},$ $\frac{92}{3369}\sqrt{310}e^{17} + \frac{2}{3369}\sqrt{266662}e^{26}$	$(\frac{53}{1123}, \frac{73}{3369}, -\frac{13}{3369}, \frac{577}{1123}, -\frac{1267}{3369}, \frac{232}{3369}, \frac{146}{3369}, \frac{20}{1123}, \frac{305}{3369})$ $+ \frac{2}{1123}\sqrt{129766}e^1 \otimes e_5 + \frac{8}{3369}\sqrt{60605}e^4 \otimes e_9$	{12389, 1369, 2456, 458}
941:194	$0, 0, 0, 0, 0, \frac{1}{317}\sqrt{5790}e^{12}, \frac{10}{317}\sqrt{193}e^{13}, \frac{1}{317}\sqrt{14282}e^{23},$ $\frac{2}{317}\sqrt{6755}e^{17} + \frac{1}{317}\sqrt{8878}e^{26}$	$(\frac{67}{317}, \frac{9}{317}, -\frac{49}{317}, \frac{153}{317}, -\frac{126}{317}, \frac{76}{317}, \frac{18}{317}, -\frac{40}{317}, \frac{85}{317})$ $+ \frac{1}{317}\sqrt{44390}e^4 \otimes e_8 + \frac{2}{317}\sqrt{15826}e^1 \otimes e_5$	{1278, 1467, 2345679, 35789}
941:194	$0, 0, 0, 0, 0, \frac{1}{180}\sqrt{6279}e^{12}, \frac{1}{360}\sqrt{5957}e^{13}, \frac{1}{90}\sqrt{322}e^{23},$ $\frac{7}{360}\sqrt{46}e^{17} + \frac{1}{120}\sqrt{4186}e^{26}$	$(-\frac{7}{180}, \frac{3}{80}, \frac{41}{360}, \frac{29}{60}, -\frac{59}{144}, -\frac{7}{120}, \frac{3}{40}, \frac{109}{720}, \frac{13}{360})$ $+ \frac{1}{180}\sqrt{14973}e^2 \otimes e_5 + \frac{1}{360}\sqrt{43631}e^4 \otimes e_9$	{12379, 1356789, 24678, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:194	$0, 0, 0, 0, 0, \frac{1}{905}\sqrt{143558e^{12}}, \frac{6}{905}\sqrt{2406e^{13}}, \frac{1}{905}\sqrt{299146e^{23}},$ $\frac{1}{905}\sqrt{106666e^{17}} + \frac{1}{905}\sqrt{114686e^{26}}$	$(\frac{3}{181}, \frac{26}{905}, \frac{37}{905}, \frac{464}{905}, -\frac{364}{905}, \frac{41}{905}, \frac{52}{905}, \frac{63}{905}, \frac{67}{905})$ $+ \frac{21}{905}\sqrt{802e^3} \otimes e_5 + \frac{3}{905}\sqrt{34486e^4} \otimes e_8$	{123469, 1389, 258, 456}
941:194	$0, 0, 0, 0, 0, \frac{1}{1169}\sqrt{59570e^{12}}, \frac{2}{1169}\sqrt{109779e^{13}}, \frac{12}{1169}\sqrt{4255e^{23}},$ $\frac{2}{1169}\sqrt{189773e^{17}} + \frac{2}{1169}\sqrt{86802e^{26}}$	$(\frac{430}{1169}, \frac{3}{1169}, -\frac{424}{1169}, \frac{194}{1169}, \frac{194}{1169}, \frac{433}{1169}, \frac{6}{1169}, -\frac{421}{1169}, \frac{436}{1169})$ $+ \frac{5}{1169}\sqrt{66378e^1} \otimes e_8$	{14567, 1467, 167, 345789, 34789, 3789}
941:194	$0, 0, 0, 0, 0, \frac{30}{559}\sqrt{227e^{12}}, \frac{2}{559}\sqrt{15663e^{13}}, \frac{2}{559}\sqrt{15209e^{23}},$ $\frac{2}{559}\sqrt{25878e^{17}} + \frac{2}{559}\sqrt{45854e^{26}}$	$(\frac{1}{13}, \frac{5}{43}, \frac{87}{559}, -\frac{389}{559}, \frac{85}{559}, \frac{108}{559}, \frac{10}{559}, \frac{152}{559}, \frac{173}{559})$ $+ \frac{2}{559}\sqrt{107598e^2} \otimes e_4$	{123579, 12379, 13456789, 1346789, 25678, 2678, 457, 47}
941:194	$0, 0, 0, 0, 0, \frac{90}{1429}\sqrt{46e^{12}}, \frac{180}{1429}\sqrt{7e^{13}}, \frac{15}{1429}\sqrt{2202e^{23}},$ $\frac{15}{1429}\sqrt{714e^{17}} + \frac{30}{1429}\sqrt{330e^{26}}$	$(\frac{150}{1429}, \frac{45}{1429}, -\frac{60}{1429}, \frac{660}{1429}, -\frac{630}{1429}, \frac{195}{1429}, \frac{90}{1429}, -\frac{15}{1429}, \frac{240}{1429})$ $+ \frac{15}{1429}\sqrt{3126e^4} \otimes e_8 + \frac{15}{1429}\sqrt{4614e^2} \otimes e_5$	{123479, 1356789, 2678, 457}
941:194	$0, 0, 0, 0, 0, \frac{6}{149}\sqrt{165e^{12}}, \frac{22}{149}\sqrt{3e^{13}}, \frac{2}{149}\sqrt{33e^{23}},$ $\frac{2}{149}\sqrt{66e^{17}} + \frac{4}{149}\sqrt{231e^{26}}$	$(\frac{21}{149}, \frac{13}{149}, \frac{5}{149}, -\frac{45}{149}, -\frac{53}{149}, \frac{34}{149}, \frac{26}{149}, \frac{18}{149}, \frac{47}{149})$ $+ \frac{2}{149}\sqrt{2046e^1} \otimes e_4 + \frac{2}{149}\sqrt{2310e^2} \otimes e_5$	{1239, 135689, 2468, 45}
941:195	$0, 0, 0, 0, 0, -\frac{5}{176}\sqrt{5e^{12}}, \frac{5}{88}\sqrt{5e^{13}}, \frac{5}{176}\sqrt{130e^{23}},$ $\frac{5}{176}\sqrt{235e^{26}} + \frac{5}{176}\sqrt{235e^{37}}$	$(\frac{17}{176}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, \frac{107}{176}, -\frac{1}{352}, -\frac{1}{352}, -\frac{35}{176}, -\frac{9}{88})$ $+ \frac{5}{176}\sqrt{690e^4} \otimes e_8 + \frac{5}{88}\sqrt{215e^5} \otimes e_9$	{12349, 12789, 14679, 234567, 2568, 45, 12349, 12789, 14679, 234567, 2568, 45}
941:195	$0, 0, 0, 0, 0, \frac{5}{88}\sqrt{5e^{12}}, \frac{5}{88}\sqrt{5e^{13}}, \frac{5}{176}\sqrt{130e^{23}},$ $\frac{5}{176}\sqrt{235e^{26}} + \frac{5}{176}\sqrt{235e^{37}}$	$(\frac{17}{176}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, \frac{107}{176}, -\frac{1}{352}, -\frac{1}{352}, -\frac{35}{176}, -\frac{9}{88})$ $+ \frac{5}{176}\sqrt{690e^4} \otimes e_8 + \frac{5}{88}\sqrt{215e^5} \otimes e_9$	{12349, 12789, 14679, 234567, 2568, 45, 12349, 12789, 14679, 234567, 2568, 45}
941:195	$0, 0, 0, 0, 0, -\frac{10}{83}\sqrt{43e^{12}}, \frac{10}{83}\sqrt{43e^{13}}, \frac{2}{83}\sqrt{731e^{23}},$ $\frac{4}{83}\sqrt{86e^{26}} + \frac{4}{83}\sqrt{86e^{37}}$	$(\frac{33}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{53}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, -\frac{2}{83}, \frac{31}{83})$ $+ \frac{4}{83}\sqrt{731e^1} \otimes e_4$	{123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48, 123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48}
941:195	$0, 0, 0, 0, 0, \frac{10}{83}\sqrt{43e^{12}}, \frac{10}{83}\sqrt{43e^{13}}, \frac{2}{83}\sqrt{731e^{23}},$ $\frac{4}{83}\sqrt{86e^{26}} + \frac{4}{83}\sqrt{86e^{37}}$	$(\frac{33}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{53}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, -\frac{2}{83}, \frac{31}{83})$ $+ \frac{4}{83}\sqrt{731e^1} \otimes e_4$	{123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48, 123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48}
941:195	$0, 0, 0, 0, 0, -\frac{1}{77}\sqrt{494e^{12}}, \frac{1}{77}\sqrt{494e^{13}}, \frac{2}{77}\sqrt{323e^{23}},$ $\frac{1}{77}\sqrt{494e^{26}} + \frac{1}{77}\sqrt{494e^{37}}$	$(-\frac{4}{77}, \frac{13}{77}, \frac{13}{77}, -\frac{25}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{26}{77}, \frac{2}{7})$ $+ \frac{2}{77}\sqrt{646e^2} \otimes e_4 + \frac{2}{77}\sqrt{646e^3} \otimes e_5$	{1239, 125789, 145679, 2367, 2568, 45, 1239, 125789, 145679, 2367, 2568, 45}
941:195	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{494e^{12}}, \frac{1}{77}\sqrt{494e^{13}}, \frac{2}{77}\sqrt{323e^{23}},$ $\frac{1}{77}\sqrt{494e^{26}} + \frac{1}{77}\sqrt{494e^{37}}$	$(-\frac{4}{77}, \frac{13}{77}, \frac{13}{77}, -\frac{25}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{26}{77}, \frac{2}{7})$ $+ \frac{2}{77}\sqrt{646e^2} \otimes e_4 + \frac{2}{77}\sqrt{646e^3} \otimes e_5$	{1239, 125789, 145679, 2367, 2568, 45, 1239, 125789, 145679, 2367, 2568, 45}
941:195	$0, 0, 0, 0, 0, -\frac{1}{126}\sqrt{2838e^{12}}, \frac{1}{126}\sqrt{2838e^{13}}, \frac{1}{63}\sqrt{731e^{23}},$ $\frac{1}{126}\sqrt{86e^{26}} + \frac{1}{126}\sqrt{86e^{37}}$	$(\frac{25}{63}, -\frac{1}{7}, -\frac{1}{7}, \frac{29}{63}, -\frac{2}{9}, \frac{16}{63}, \frac{16}{63}, -\frac{2}{7}, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{731e^1} \otimes e_8 + \frac{43}{63}e^4 \otimes e_5$	{1234, 1235, 1467, 1567, 24689, 25689, 1234, 1235, 1467, 1567, 24689, 25689}
941:195	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{2838e^{12}}, \frac{1}{126}\sqrt{2838e^{13}}, \frac{1}{63}\sqrt{731e^{23}},$ $\frac{1}{126}\sqrt{86e^{26}} + \frac{1}{126}\sqrt{86e^{37}}$	$(\frac{25}{63}, -\frac{1}{7}, -\frac{1}{7}, \frac{29}{63}, -\frac{2}{9}, \frac{16}{63}, \frac{16}{63}, -\frac{2}{7}, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{731e^1} \otimes e_8 + \frac{43}{63}e^4 \otimes e_5$	{1234, 1235, 1467, 1567, 24689, 25689, 1234, 1235, 1467, 1567, 24689, 25689}
941:195	$0, 0, 0, 0, 0, -\frac{4}{83}\sqrt{86e^{12}}, \frac{4}{83}\sqrt{86e^{13}}, \frac{2}{83}\sqrt{731e^{23}},$ $\frac{10}{83}\sqrt{43e^{26}} + \frac{10}{83}\sqrt{43e^{37}}$	$(-\frac{1}{83}, -\frac{1}{83}, -\frac{1}{83}, 1, \frac{15}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731e^4} \otimes e_9$	{123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48, 123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48}
941:195	$0, 0, 0, 0, 0, \frac{4}{83}\sqrt{86e^{12}}, \frac{4}{83}\sqrt{86e^{13}}, \frac{2}{83}\sqrt{731e^{23}},$ $\frac{10}{83}\sqrt{43e^{26}} + \frac{10}{83}\sqrt{43e^{37}}$	$(-\frac{1}{83}, -\frac{1}{83}, -\frac{1}{83}, 1, \frac{15}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731e^4} \otimes e_9$	{123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48, 123589, 12389, 12579, 1279, 156789, 16789, 2345678, 234678, 2456, 246, 458, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:195	$0, 0, 0, 0, 0, -\frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13}, \frac{8}{19}\sqrt{6}e^{23},$ $\frac{2}{19}\sqrt{15}e^{26} + \frac{2}{19}\sqrt{15}e^{37}$	$(\frac{11}{38}, -\frac{5}{38}, -\frac{5}{38}, 1, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{1}{38})$ $+ \frac{16}{19}\sqrt{3}e^4 \otimes e_8$	{12345679, 1234679, 125689, 12689, 1459, 149, 234, 2345, 2578, 278, 4567, 467, 12345679, 1234679, 125689, 12689, 1459, 149, 234, 2345, 2578, 278, 4567, 467}
941:195	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13}, \frac{8}{19}\sqrt{6}e^{23},$ $\frac{2}{19}\sqrt{15}e^{26} + \frac{2}{19}\sqrt{15}e^{37}$	$(\frac{11}{38}, -\frac{5}{38}, -\frac{5}{38}, 1, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{1}{38})$ $+ \frac{16}{19}\sqrt{3}e^4 \otimes e_8$	{12345679, 1234679, 125689, 12689, 1459, 149, 234, 2345, 2578, 278, 4567, 467, 12345679, 1234679, 125689, 12689, 1459, 149, 234, 2345, 2578, 278, 4567, 467}
941:195	$0, 0, 0, 0, 0, -\frac{2}{77}\sqrt{285}e^{12}, \frac{2}{77}\sqrt{285}e^{13}, \frac{2}{77}\sqrt{323}e^{23},$ $\frac{2}{77}\sqrt{285}e^{26} + \frac{2}{77}\sqrt{285}e^{37}$	$(\frac{13}{77}, -\frac{4}{77}, -\frac{4}{77}, \frac{43}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{8}{77}, \frac{5}{77})$ $+ \frac{2}{77}\sqrt{646}e^1 \otimes e_5 + \frac{2}{77}\sqrt{646}e^4 \otimes e_9$	{12389, 1279, 16789, 2345678, 2456, 458, 12389, 1279, 16789, 2345678, 2456, 458}
941:195	$0, 0, 0, 0, 0, \frac{2}{77}\sqrt{285}e^{12}, \frac{2}{77}\sqrt{285}e^{13}, \frac{2}{77}\sqrt{323}e^{23},$ $\frac{2}{77}\sqrt{285}e^{26} + \frac{2}{77}\sqrt{285}e^{37}$	$(\frac{13}{77}, -\frac{4}{77}, -\frac{4}{77}, \frac{43}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{8}{77}, \frac{5}{77})$ $+ \frac{2}{77}\sqrt{646}e^1 \otimes e_5 + \frac{2}{77}\sqrt{646}e^4 \otimes e_9$	{12389, 1279, 16789, 2345678, 2456, 458, 12389, 1279, 16789, 2345678, 2456, 458}
941:195	$0, 0, 0, 0, 0, -\frac{7}{81}\sqrt{70}e^{12}, \frac{1}{81}\sqrt{1330}e^{13}, \frac{2}{81}\sqrt{595}e^{23},$ $\frac{7}{81}\sqrt{70}e^{26} + \frac{1}{81}\sqrt{1330}e^{37}$	$(-\frac{2}{81}, \frac{5}{27}, \frac{5}{27}, -\frac{55}{81}, \frac{13}{81}, \frac{13}{81}, \frac{13}{81}, \frac{10}{27}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^2 \otimes e_4$	{123579, 12379, 12589, 1289, 13456789, 1346789, 14569, 1469, 2356, 236, 25678, 2678, 3458, 348, 457, 47, 123579, 12379, 12589, 1289, 13456789, 1346789, 14569, 1469, 2356, 236, 25678, 2678, 3458, 348, 457, 47}
941:195	$0, 0, 0, 0, 0, \frac{7}{81}\sqrt{70}e^{12}, \frac{1}{81}\sqrt{1330}e^{13}, \frac{2}{81}\sqrt{595}e^{23},$ $\frac{7}{81}\sqrt{70}e^{26} + \frac{1}{81}\sqrt{1330}e^{37}$	$(-\frac{2}{81}, \frac{5}{27}, \frac{5}{27}, -\frac{55}{81}, \frac{13}{81}, \frac{13}{81}, \frac{13}{81}, \frac{10}{27}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^2 \otimes e_4$	{123579, 12379, 12589, 1289, 13456789, 1346789, 14569, 1469, 2356, 236, 25678, 2678, 3458, 348, 457, 47, 123579, 12379, 12589, 1289, 13456789, 1346789, 14569, 1469, 2356, 236, 25678, 2678, 3458, 348, 457, 47}
941:195	$0, 0, 0, 0, 0, -\frac{1}{225}\sqrt{6262}e^{12}, \frac{2}{225}\sqrt{1414}e^{13}, \frac{1}{225}\sqrt{14746}e^{23},$ $\frac{1}{225}\sqrt{6262}e^{26} + \frac{2}{225}\sqrt{1414}e^{37}$	$(\frac{17}{225}, \frac{1}{75}, \frac{1}{75}, \frac{107}{225}, -\frac{98}{225}, \frac{4}{45}, \frac{4}{45}, \frac{2}{75}, \frac{23}{225})$ $+ \frac{1}{225}\sqrt{17574}e^4 \otimes e_8 + \frac{2}{225}\sqrt{5959}e^2 \otimes e_5$	{123479, 1289, 1356789, 14569, 2346, 2678, 358, 457, 123479, 1289, 1356789, 14569, 2346, 2678, 358, 457}
941:195	$0, 0, 0, 0, 0, \frac{1}{225}\sqrt{6262}e^{12}, \frac{2}{225}\sqrt{1414}e^{13}, \frac{1}{225}\sqrt{14746}e^{23},$ $\frac{1}{225}\sqrt{6262}e^{26} + \frac{2}{225}\sqrt{1414}e^{37}$	$(\frac{17}{225}, \frac{1}{75}, \frac{1}{75}, \frac{107}{225}, -\frac{98}{225}, \frac{4}{45}, \frac{4}{45}, \frac{2}{75}, \frac{23}{225})$ $+ \frac{1}{225}\sqrt{17574}e^4 \otimes e_8 + \frac{2}{225}\sqrt{5959}e^2 \otimes e_5$	{123479, 1289, 1356789, 14569, 2346, 2678, 358, 457, 123479, 1289, 1356789, 14569, 2346, 2678, 358, 457}
941:195	$0, 0, 0, 0, 0, -\frac{21}{1753}\sqrt{749}e^{12}, \frac{21}{1753}\sqrt{69}e^{13}, \frac{42}{1753}\sqrt{102}e^{23},$ $\frac{21}{1753}\sqrt{681}e^{26} + \frac{21}{1753}e^{37}$	$(\frac{273}{1753}, -\frac{84}{1753}, -\frac{84}{1753}, -\frac{525}{1753}, \frac{546}{1753}, \frac{189}{1753}, \frac{189}{1753}, -\frac{168}{1753}, \frac{105}{1753})$ $+ \frac{21}{1753}\sqrt{1054}e^1 \otimes e_8 + \frac{21}{1753}\sqrt{782}e^5 \otimes e_9 + \frac{84}{1753}\sqrt{85}e^2 \otimes e_4$	{1239, 14679, 2568, 34578, 1239, 14679, 2568, 34578}
941:195	$0, 0, 0, 0, 0, \frac{21}{1753}\sqrt{749}e^{12}, \frac{21}{1753}\sqrt{69}e^{13}, \frac{42}{1753}\sqrt{102}e^{23},$ $\frac{21}{1753}\sqrt{681}e^{26} + \frac{21}{1753}e^{37}$	$(\frac{273}{1753}, -\frac{84}{1753}, -\frac{84}{1753}, -\frac{525}{1753}, \frac{546}{1753}, \frac{189}{1753}, \frac{189}{1753}, -\frac{168}{1753}, \frac{105}{1753})$ $+ \frac{21}{1753}\sqrt{1054}e^1 \otimes e_8 + \frac{21}{1753}\sqrt{782}e^5 \otimes e_9 + \frac{84}{1753}\sqrt{85}e^2 \otimes e_4$	{1239, 14679, 2568, 34578, 1239, 14679, 2568, 34578}
941:195	$0, 0, 0, 0, 0, -\frac{5}{176}\sqrt{235}e^{12}, \frac{5}{176}\sqrt{235}e^{13}, \frac{5}{176}\sqrt{130}e^{23},$ $\frac{5}{88}\sqrt{5}e^{26} + \frac{5}{88}\sqrt{5}e^{37}$	$(\frac{15}{44}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, -\frac{65}{176}, \frac{85}{352}, \frac{85}{352}, -\frac{35}{176}, \frac{25}{176})$ $+ \frac{5}{176}\sqrt{690}e^4 \otimes e_8 + \frac{5}{88}\sqrt{215}e^1 \otimes e_5$	{12349, 12789, 14679, 234567, 2568, 45, 12349, 12789, 14679, 234567, 2568, 45}
941:195	$0, 0, 0, 0, 0, \frac{5}{176}\sqrt{235}e^{12}, \frac{5}{176}\sqrt{235}e^{13}, \frac{5}{176}\sqrt{130}e^{23},$ $\frac{5}{88}\sqrt{5}e^{26} + \frac{5}{88}\sqrt{5}e^{37}$	$(\frac{15}{44}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, -\frac{65}{176}, \frac{85}{352}, \frac{85}{352}, -\frac{35}{176}, \frac{25}{176})$ $+ \frac{5}{176}\sqrt{690}e^4 \otimes e_8 + \frac{5}{88}\sqrt{215}e^1 \otimes e_5$	{12349, 12789, 14679, 234567, 2568, 45, 12349, 12789, 14679, 234567, 2568, 45}
941:195	$0, 0, 0, 0, 0, -\frac{1}{83}\sqrt{2838}e^{12}, \frac{1}{83}\sqrt{2838}e^{13}, \frac{2}{83}\sqrt{731}e^{23},$ $\frac{1}{83}\sqrt{86}e^{26} + \frac{1}{83}\sqrt{86}e^{37}$	$(\frac{50}{83}, -\frac{18}{83}, -\frac{18}{83}, \frac{15}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, -\frac{36}{83}, \frac{14}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_8$	{123, 1234, 12345, 14567, 1467, 167, 245689, 24689, 2689, 123, 1234, 12345, 14567, 1467, 167, 245689, 24689, 2689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:195	$0, 0, 0, 0, 0, \frac{1}{83}\sqrt{2838}e^{12}, \frac{1}{83}\sqrt{2838}e^{13}, \frac{2}{83}\sqrt{731}e^{23},$ $\frac{1}{83}\sqrt{86}e^{26} + \frac{1}{83}\sqrt{86}e^{37}$	$(\frac{50}{83}, -\frac{18}{83}, -\frac{18}{83}, \frac{15}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, -\frac{36}{83}, \frac{14}{83})$ $+ \frac{1}{83}\sqrt{731}e^1 \otimes e_8$	{123, 1234, 12345, 14567, 1467, 167, 245689, 24689, 2689, 123, 1234, 12345, 14567, 1467, 167, 245689, 24689, 2689}
941:197	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{143}e^{12}, \frac{108}{3851}\sqrt{141}e^{13}, \frac{72}{3851}\sqrt{915}e^{14},$ $\frac{36}{3851}\sqrt{555}e^{17} + \frac{36}{3851}\sqrt{195}e^{26}$	$(\frac{858}{3851}, -\frac{114}{3851}, -\frac{1086}{3851}, -\frac{840}{3851}, \frac{1962}{3851}, \frac{744}{3851}, -\frac{228}{3851}, \frac{18}{3851}, \frac{630}{3851})$ $+ \frac{36}{3851}\sqrt{4746}e^5 \otimes e_8 - \frac{36}{3851}\sqrt{5667}e^1 \otimes e_3$	{12459, 1289, 14569, 1689, 23468, 2356, 348, 35}
941:197	$0, 0, 0, 0, 0, \frac{1}{1263}\sqrt{360570}e^{12}, \frac{1}{1263}\sqrt{91910}e^{13}, \frac{2}{1263}\sqrt{58681}e^{14},$ $\frac{202}{1263}\sqrt{7}e^{17} + \frac{1}{1263}\sqrt{117362}e^{26}$	$(-\frac{137}{1263}, \frac{69}{421}, \frac{551}{1263}, -\frac{19}{1263}, -\frac{500}{1263}, \frac{70}{1263}, \frac{138}{421}, -\frac{52}{421}, \frac{277}{1263})$ $+ \frac{1}{1263}\sqrt{914858}e^2 \otimes e_5 + \frac{7}{1263}\sqrt{13534}e^3 \otimes e_8$	{12789, 156789, 2367, 357}
941:197	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{143}e^{12}, \frac{108}{3851}\sqrt{141}e^{13}, \frac{72}{3851}\sqrt{915}e^{14},$ $\frac{36}{3851}\sqrt{555}e^{17} + \frac{36}{3851}\sqrt{195}e^{26}$	$(\frac{858}{3851}, -\frac{114}{3851}, -\frac{1086}{3851}, -\frac{840}{3851}, \frac{1962}{3851}, \frac{744}{3851}, -\frac{228}{3851}, \frac{18}{3851}, \frac{630}{3851})$ $+ \frac{36}{3851}\sqrt{4746}e^5 \otimes e_8 + \frac{36}{3851}\sqrt{5667}e^1 \otimes e_3$	{12459, 1289, 14569, 1689, 23468, 2356, 348, 35}
941:197	$0, 0, 0, 0, 0, \frac{2}{4065}\sqrt{403174}e^{12}, \frac{4}{4065}\sqrt{108391}e^{13}, \frac{76}{4065}\sqrt{1013}e^{14},$ $\frac{2}{1355}\sqrt{33429}e^{17} + \frac{2}{4065}\sqrt{228938}e^{26}$	$(-\frac{796}{4065}, \frac{553}{4065}, \frac{634}{1355}, \frac{224}{1355}, -\frac{1354}{4065}, -\frac{81}{1355}, \frac{1106}{4065}, -\frac{124}{4065}, \frac{62}{813})$ $+ \frac{2}{4065}\sqrt{1757555}e^4 \otimes e_5 + \frac{2}{4065}\sqrt{1974337}e^3 \otimes e_8$	{12346, 134, 2489, 4689}
941:197	$0, 0, 0, 0, 0, \frac{7}{39}\sqrt{6}e^{12}, \frac{7}{39}\sqrt{30}e^{13}, \frac{7}{39}\sqrt{6}e^{14},$ $\frac{14}{39}\sqrt{2}e^{17} + \frac{7}{39}\sqrt{2}e^{26}$	$(-\frac{2}{13}, \frac{3}{13}, \frac{8}{13}, \frac{10}{39}, -\frac{25}{39}, \frac{6}{13}, \frac{4}{39}, \frac{4}{13})$ $+ \frac{56}{39}e^3 \otimes e_5$	{1245678, 12567, 14578, 157, 23479, 23789, 34679, 36789}
941:197	$0, 0, 0, 0, 0, \frac{26}{1255}\sqrt{579}e^{12}, \frac{156}{1255}\sqrt{7}e^{13}, \frac{52}{1255}\sqrt{66}e^{14},$ $\frac{39}{1255}\sqrt{70}e^{17} + \frac{117}{1255}\sqrt{14}e^{26}$	$(\frac{231}{1255}, \frac{97}{1255}, -\frac{37}{1255}, -\frac{276}{1255}, -\frac{82}{251}, \frac{328}{1255}, \frac{194}{1255}, -\frac{9}{251}, \frac{85}{251})$ $+ \frac{13}{1255}\sqrt{3246}e^2 \otimes e_5 + \frac{13}{1255}\sqrt{3498}e^1 \otimes e_4$	{1239, 13569, 246, 45}
941:197	$0, 0, 0, 0, 0, \frac{83}{621}\sqrt{6}e^{12}, \frac{2}{621}\sqrt{8715}e^{13}, \frac{1}{207}\sqrt{10790}e^{14},$ $\frac{1}{621}\sqrt{498}e^{17} + \frac{1}{207}\sqrt{5810}e^{26}$	$(-\frac{166}{621}, \frac{43}{621}, \frac{28}{69}, \frac{169}{621}, \frac{65}{621}, -\frac{41}{207}, \frac{86}{621}, \frac{1}{207}, -\frac{80}{621})$ $+ \frac{1}{621}\sqrt{127986}e^3 \otimes e_8 + \frac{1}{621}\sqrt{148902}e^4 \otimes e_9$	{23579, 2379, 35679, 3679}
941:197	$0, 0, 0, 0, 0, \frac{1}{1229}\sqrt{71162}e^{12}, \frac{1}{1229}\sqrt{256802}e^{13}, \frac{1}{1229}\sqrt{1500590}e^{14},$ $\frac{4}{1229}\sqrt{23205}e^{17} + \frac{1}{1229}\sqrt{343434}e^{26}$	$(-\frac{46}{1229}, \frac{125}{1229}, \frac{296}{1229}, \frac{744}{1229}, \frac{803}{1229}, \frac{79}{1229}, \frac{250}{1229}, \frac{698}{1229}, \frac{204}{1229})$ $+ \frac{4}{1229}\sqrt{196469}e^4 \otimes e_5$	{1246, 12568, 14, 158, 23489, 2359, 34689, 3569}
941:197	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{3306}e^{12}, \frac{6}{313}\sqrt{58}e^{13}, \frac{2}{313}\sqrt{3306}e^{14},$ $\frac{58}{313}\sqrt{2}e^{17} + \frac{4}{313}\sqrt{1653}e^{26}$	$(-\frac{58}{313}, \frac{37}{313}, \frac{132}{313}, -\frac{21}{313}, \frac{36}{313}, -\frac{21}{313}, \frac{74}{313}, -\frac{79}{313}, \frac{16}{313})$ $+ \frac{2}{313}\sqrt{6090}e^3 \otimes e_9 + \frac{4}{313}\sqrt{2494}e^2 \otimes e_8$	{124579, 12479, 156789, 16789, 23567, 2367, 34578, 3478}
941:197	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{3306}e^{12}, \frac{6}{313}\sqrt{58}e^{13}, \frac{2}{313}\sqrt{3306}e^{14},$ $\frac{58}{313}\sqrt{2}e^{17} + \frac{4}{313}\sqrt{1653}e^{26}$	$(-\frac{58}{313}, \frac{37}{313}, \frac{132}{313}, -\frac{21}{313}, \frac{36}{313}, -\frac{21}{313}, \frac{74}{313}, -\frac{79}{313}, \frac{16}{313})$ $- \frac{2}{313}\sqrt{6090}e^3 \otimes e_9 + \frac{4}{313}\sqrt{2494}e^2 \otimes e_8$	{124579, 12479, 156789, 16789, 23567, 2367, 34578, 3478}
941:197	$0, 0, 0, 0, 0, \frac{1}{80}\sqrt{1113}e^{12}, \frac{3}{160}\sqrt{265}e^{13}, \frac{1}{80}\sqrt{1113}e^{14},$ $\frac{1}{160}\sqrt{3074}e^{17} + \frac{3}{160}\sqrt{742}e^{26}$	$(-\frac{1}{10}, \frac{23}{320}, \frac{39}{160}, -\frac{51}{320}, \frac{3}{8}, -\frac{9}{320}, \frac{23}{160}, \frac{83}{320}, \frac{7}{160})$ $+ \frac{1}{160}\sqrt{4611}e^5 \otimes e_9 + \frac{1}{16}\sqrt{106}e^2 \otimes e_8$	{123479, 136789, 2567, 4578}
941:197	$0, 0, 0, 0, 0, \frac{6}{481}\sqrt{266}e^{12}, \frac{3}{481}\sqrt{7030}e^{13}, \frac{6}{481}\sqrt{969}e^{14},$ $\frac{12}{481}\sqrt{323}e^{17} + \frac{3}{481}\sqrt{1178}e^{26}$	$(\frac{56}{481}, \frac{46}{481}, \frac{36}{481}, -\frac{115}{481}, -\frac{135}{481}, \frac{102}{481}, \frac{92}{481}, -\frac{59}{481}, \frac{4}{13})$ $+ \frac{6}{481}\sqrt{1691}e^3 \otimes e_5 + \frac{6}{481}\sqrt{2470}e^1 \otimes e_4$	{1257, 1567, 234679, 3479}
941:197	$0, 0, 0, 0, 0, \frac{8}{567}\sqrt{357}e^{12}, \frac{2}{81}\sqrt{85}e^{13}, \frac{8}{567}\sqrt{1547}e^{14},$ $\frac{2}{567}\sqrt{3094}e^{17} + \frac{2}{567}\sqrt{12614}e^{26}$	$(-\frac{32}{189}, -\frac{1}{189}, \frac{10}{63}, \frac{136}{567}, \frac{278}{567}, -\frac{11}{63}, -\frac{2}{189}, \frac{40}{567}, -\frac{34}{189})$ $+ \frac{2}{567}\sqrt{26537}e^5 \otimes e_8 + \frac{34}{567}\sqrt{119}e^4 \otimes e_9$	{1234567, 13457, 2579, 5679}
941:197	$0, 0, 0, 0, 0, \frac{7}{165}\sqrt{70}e^{12}, \frac{7}{165}\sqrt{122}e^{13}, \frac{7}{165}\sqrt{78}e^{14},$ $\frac{14}{165}\sqrt{22}e^{17} + \frac{14}{165}\sqrt{23}e^{26}$	$(-\frac{7}{33}, \frac{14}{165}, \frac{21}{55}, 0, \frac{91}{165}, -\frac{7}{55}, \frac{28}{165}, -\frac{7}{33}, -\frac{7}{165})$ $+ \frac{14}{165}\sqrt{74}e^3 \otimes e_8 + \frac{7}{165}\sqrt{286}e^5 \otimes e_9$	{125678, 1578, 2379, 3679}
941:197	$0, 0, 0, 0, 0, \frac{84}{4745}\sqrt{21}e^{12}, \frac{42}{4745}\sqrt{429}e^{13}, \frac{84}{4745}\sqrt{386}e^{14},$ $\frac{42}{4745}\sqrt{458}e^{17} + \frac{42}{4745}\sqrt{530}e^{26}$	$(\frac{168}{4745}, -\frac{21}{365}, -\frac{714}{4745}, \frac{504}{4745}, \frac{1554}{4745}, -\frac{21}{949}, -\frac{42}{365}, \frac{672}{4745}, -\frac{378}{4745})$ $+ \frac{42}{4745}\sqrt{1213}e^5 \otimes e_8 + \frac{42}{4745}\sqrt{1707}e^4 \otimes e_9 + \frac{84}{4745}\sqrt{371}e^1 \otimes e_3$	{1289, 1689, 23468, 348}
941:197	$0, 0, 0, 0, 0, \frac{33}{1741}\sqrt{302}e^{12}, \frac{11}{1741}\sqrt{2082}e^{13}, \frac{55}{1741}\sqrt{174}e^{14},$ $\frac{198}{1741}\sqrt{10}e^{17} + \frac{33}{1741}\sqrt{386}e^{26}$	$(-\frac{154}{1741}, \frac{165}{1741}, \frac{484}{1741}, -\frac{44}{1741}, -\frac{407}{1741}, \frac{11}{1741}, \frac{330}{1741}, -\frac{198}{1741}, \frac{176}{1741})$ $+ \frac{22}{1741}\sqrt{1590}e^2 \otimes e_8 + \frac{88}{1741}\sqrt{51}e^4 \otimes e_5$	{123479, 1356789, 2567, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:197	$0, 0, 0, 0, 0, \frac{1}{209}\sqrt{11730e^{12}}, \frac{3}{209}\sqrt{170e^{13}}, \frac{20}{209}\sqrt{17e^{14}},$ $\frac{1}{209}\sqrt{4930e^{17}} + \frac{10}{209}\sqrt{102e^{26}}$	$(\frac{1}{19}, \frac{2}{19}, \frac{3}{19}, -\frac{74}{209}, \frac{24}{209}, \frac{3}{19}, \frac{4}{19}, -\frac{63}{209}, \frac{5}{19})$ $+ \frac{1}{209}\sqrt{21590e^2} \otimes e_8 + \frac{2}{209}\sqrt{2465e^1} \otimes e_4$	{1356789, 136789, 4578, 478}
941:197	$0, 0, 0, 0, 0, \frac{1}{127}\sqrt{782e^{12}}, \frac{3}{127}\sqrt{322e^{13}}, \frac{7}{127}\sqrt{46e^{14}},$ $\frac{46}{127}\sqrt{2e^{17}} + \frac{127}{127}\sqrt{115e^{26}}$	$(\frac{17}{127}, -\frac{1}{127}, -\frac{19}{127}, -\frac{29}{127}, \frac{61}{127}, \frac{16}{127}, -\frac{2}{127}, -\frac{12}{127}, \frac{15}{127})$ $+ \frac{1}{127}\sqrt{4462e^5} \otimes e_9 + \frac{2}{127}\sqrt{1518e^1} \otimes e_4$	{1239, 1369, 2456, 45}
941:197	$0, 0, 0, 0, 0, \frac{1}{1627}\sqrt{138030e^{12}}, \frac{1}{1627}\sqrt{114810e^{13}}, \frac{2}{1627}\sqrt{66435e^{14}},$ $\frac{1}{1627}\sqrt{120830e^{17}} + \frac{2}{1627}\sqrt{68370e^{26}}$	$(-\frac{253}{1627}, \frac{76}{1627}, \frac{405}{1627}, \frac{114}{1627}, \frac{138}{1627}, -\frac{177}{1627}, \frac{152}{1627}, -\frac{139}{1627}, -\frac{101}{1627})$ $+ \frac{5}{1627}\sqrt{15394e^2} \otimes e_8 + \frac{6}{1627}\sqrt{7095e^4} \otimes e_9$	{1356789, 136789, 4578, 478}
941:197	$0, 0, 0, 0, 0, \frac{2}{393}\sqrt{4767e^{12}}, \frac{1}{393}\sqrt{25878e^{13}}, \frac{2}{393}\sqrt{6810e^{14}},$ $\frac{4}{393}\sqrt{1589e^{17}} + \frac{1}{393}\sqrt{29510e^{26}}$	$(-\frac{28}{131}, \frac{8}{131}, \frac{44}{131}, \frac{191}{393}, -\frac{95}{393}, -\frac{20}{131}, \frac{16}{131}, \frac{107}{393}, -\frac{12}{131})$ $+ \frac{2}{393}\sqrt{16117e^3} \otimes e_5 + \frac{3}{393}\sqrt{23154e^4} \otimes e_9$	{124567, 1457, 2379, 3679}
941:197	$0, 0, 0, 0, 0, \frac{84}{4745}\sqrt{21e^{12}}, \frac{42}{4745}\sqrt{429e^{13}}, \frac{84}{4745}\sqrt{386e^{14}},$ $\frac{42}{4745}\sqrt{458e^{17}} + \frac{42}{4745}\sqrt{530e^{26}}$	$(\frac{168}{4745}, -\frac{21}{365}, -\frac{714}{4745}, \frac{504}{4745}, \frac{1554}{4745}, -\frac{21}{949}, -\frac{42}{365}, \frac{672}{4745}, -\frac{378}{4745})$ $+ \frac{42}{4745}\sqrt{1213e^5} \otimes e_8 + \frac{42}{4745}\sqrt{1707e^4} \otimes e_9 - \frac{84}{4745}\sqrt{371e^1} \otimes e_3$	{1289, 1689, 23468, 348}
941:197	$0, 0, 0, 0, 0, \frac{1}{1229}\sqrt{71162e^{12}}, \frac{1}{1229}\sqrt{256802e^{13}}, \frac{1}{1229}\sqrt{1500590e^{14}},$ $\frac{4}{1229}\sqrt{23205e^{17}} + \frac{1}{1229}\sqrt{343434e^{26}}$	$(-\frac{46}{1229}, \frac{125}{1229}, \frac{296}{1229}, \frac{272}{1229}, 1, \frac{79}{1229}, \frac{250}{1229}, -\frac{318}{1229}, \frac{204}{1229})$ $+ \frac{4}{1229}\sqrt{196469e^5} \otimes e_8$	{12456, 1268, 145, 18, 23489, 2359, 34689, 3569}
941:197	$0, 0, 0, 0, 0, \frac{3}{235}\sqrt{42e^{12}}, \frac{3}{235}\sqrt{854e^{13}}, \frac{18}{235}\sqrt{7e^{14}},$ $\frac{63}{235}\sqrt{2e^{17}} + \frac{12}{235}\sqrt{7e^{26}}$	$(\frac{6}{235}, \frac{9}{235}, \frac{12}{235}, -\frac{57}{235}, \frac{87}{235}, \frac{3}{47}, \frac{18}{235}, -\frac{51}{235}, \frac{24}{235})$ $+ \frac{3}{235}\sqrt{1330e^1} \otimes e_4 + \frac{3}{235}\sqrt{742e^3} \otimes e_8 + \frac{3}{235}\sqrt{938e^5} \otimes e_9$	{1239, 1369}
941:197	$0, 0, 0, 0, 0, \frac{4}{3851}\sqrt{30895e^{12}}, \frac{4}{3851}\sqrt{49265e^{13}}, \frac{4}{3851}\sqrt{182030e^{14}},$ $\frac{4}{3851}\sqrt{115397e^{17}} + \frac{4}{3851}\sqrt{84001e^{26}}$	$(\frac{370}{3851}, -\frac{298}{3851}, -\frac{966}{3851}, \frac{1110}{3851}, \frac{390}{3851}, \frac{72}{3851}, -\frac{596}{3851}, \frac{1480}{3851}, -\frac{226}{3851})$ $- \frac{4}{3851}\sqrt{275717e^1} \otimes e_3 + \frac{4}{3851}\sqrt{302270e^4} \otimes e_9$	{12589, 1289, 15689, 1689, 234568, 23468, 3458, 348}
941:197	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{143e^{12}}, \frac{108}{3851}\sqrt{141e^{13}}, \frac{72}{3851}\sqrt{915e^{14}},$ $\frac{36}{3851}\sqrt{555e^{17}} + \frac{36}{3851}\sqrt{195e^{26}}$	$(\frac{858}{3851}, -\frac{114}{3851}, \frac{1086}{3851}, \frac{742}{3851}, \frac{1202}{3851}, \frac{744}{3851}, \frac{228}{3851}, \frac{1600}{3851}, \frac{630}{3851})$ $+ \frac{36}{3851}\sqrt{4746e^4} \otimes e_5 + \frac{36}{3851}\sqrt{5667e^1} \otimes e_3$	{1249, 12589, 1469, 15689, 23468, 2356, 348, 35}
941:197	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{285e^{12}}, \frac{1}{112}\sqrt{285e^{13}}, \frac{1}{56}\sqrt{285e^{14}},$ $\frac{9}{112}\sqrt{38e^{17}} + \frac{1}{112}\sqrt{1254e^{26}}$	$(\frac{5}{28}, -\frac{17}{224}, -\frac{37}{112}, \frac{5}{224}, \frac{15}{28}, \frac{23}{224}, -\frac{17}{112}, \frac{45}{224}, \frac{3}{112})$ $+ \frac{19}{112}\sqrt{15e^5} \otimes e_9 + \frac{1}{56}\sqrt{1482e^1} \otimes e_3$	{1249, 1289, 1469, 1689, 234568, 2356, 3458, 35}
941:197	$0, 0, 0, 0, 0, \frac{108}{3851}\sqrt{143e^{12}}, \frac{108}{3851}\sqrt{141e^{13}}, \frac{72}{3851}\sqrt{915e^{14}},$ $\frac{36}{3851}\sqrt{555e^{17}} + \frac{36}{3851}\sqrt{195e^{26}}$	$(\frac{858}{3851}, -\frac{114}{3851}, \frac{1086}{3851}, \frac{742}{3851}, \frac{1202}{3851}, \frac{744}{3851}, \frac{228}{3851}, \frac{1600}{3851}, \frac{630}{3851})$ $+ \frac{36}{3851}\sqrt{4746e^4} \otimes e_5 - \frac{36}{3851}\sqrt{5667e^1} \otimes e_3$	{1249, 12589, 1469, 15689, 23468, 2356, 348, 35}
941:197	$0, 0, 0, 0, 0, \frac{2}{1249}\sqrt{101955e^{12}}, \frac{1}{1249}\sqrt{879726e^{13}}, \frac{8}{1249}\sqrt{9710e^{14}},$ $\frac{18}{1249}\sqrt{2913e^{17}} + \frac{3}{1249}\sqrt{21362e^{26}}$	$(\frac{420}{1249}, \frac{78}{1249}, -\frac{264}{1249}, \frac{551}{1249}, \frac{189}{1249}, \frac{498}{1249}, \frac{156}{1249}, -\frac{131}{1249}, \frac{576}{1249})$ $+ \frac{2}{1249}\sqrt{514630e^1} \otimes e_4$	{1257, 127, 1567, 167, 2345679, 234679, 34579, 3479}
941:197	$0, 0, 0, 0, 0, \frac{1}{307}\sqrt{36654e^{12}}, \frac{1}{307}\sqrt{20562e^{13}}, \frac{1}{307}\sqrt{36654e^{14}},$ $\frac{2}{307}\sqrt{8642e^{17}} + \frac{1}{307}\sqrt{42018e^{26}}$	$(-\frac{22}{307}, \frac{43}{307}, \frac{108}{307}, -\frac{84}{307}, \frac{39}{307}, \frac{21}{307}, \frac{86}{307}, -\frac{106}{307}, \frac{64}{307})$ $+ \frac{2}{307}\sqrt{19966e^2} \otimes e_8$	{1234579, 123479, 1356789, 136789, 2567, 267, 4578, 478}
941:197	$0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{162393e^{12}}, \frac{2}{2245}\sqrt{343767e^{13}}, \frac{4}{2245}\sqrt{18278e^{14}},$ $\frac{4}{2245}\sqrt{90687e^{17}} + \frac{18}{2245}\sqrt{703e^{26}}$	$(\frac{462}{2245}, \frac{123}{2245}, -\frac{216}{2245}, -\frac{944}{2245}, \frac{924}{2245}, \frac{117}{2245}, \frac{246}{2245}, -\frac{482}{2245}, \frac{708}{2245})$ $+ \frac{2}{2245}\sqrt{457653e^5} \otimes e_8 + \frac{2}{2245}\sqrt{928663e^1} \otimes e_4$	{1257, 1567, 2345679, 34579}
941:197	$0, 0, 0, 0, 0, \frac{6}{1483}\sqrt{1995e^{12}}, \frac{15}{1483}\sqrt{2926e^{13}}, \frac{28}{1483}\sqrt{95e^{14}},$ $\frac{10}{1483}\sqrt{4389e^{17}} + \frac{19}{1483}\sqrt{210e^{26}}$	$(\frac{108}{1483}, \frac{162}{1483}, \frac{216}{1483}, -\frac{557}{1483}, \frac{159}{1483}, \frac{270}{1483}, \frac{324}{1483}, -\frac{449}{1483}, \frac{432}{1483})$ $+ \frac{2}{1483}\sqrt{256690e^1} \otimes e_4 + \frac{4}{1483}\sqrt{45885e^3} \otimes e_8$	{2345679, 234679, 34579, 3479}
941:197	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{114e^{12}}, \frac{3}{61}\sqrt{42e^{13}}, \frac{3}{61}\sqrt{114e^{14}},$ $\frac{18}{61}\sqrt{3e^{17}} + \frac{3}{61}\sqrt{138e^{26}}$	$(-\frac{6}{61}, \frac{9}{61}, \frac{24}{61}, -\frac{12}{61}, -\frac{3}{61}, \frac{3}{61}, \frac{18}{61}, -\frac{18}{61}, \frac{12}{61})$ $+ \frac{6}{61}\sqrt{15e^3} \otimes e_5 + \frac{6}{61}\sqrt{66e^2} \otimes e_8$	{123479, 136789, 2567, 4578}
941:197	$0, 0, 0, 0, 0, \frac{16}{1289}\sqrt{1155e^{12}}, \frac{1}{1289}\sqrt{43890e^{13}}, \frac{14}{1289}\sqrt{4785e^{14}},$ $\frac{21}{1289}\sqrt{125895e^{17}} + \frac{21}{1289}\sqrt{1870e^{26}}$	$(-\frac{256}{1289}, -\frac{8}{1289}, \frac{240}{1289}, \frac{883}{1289}, \frac{221}{1289}, -\frac{264}{1289}, -\frac{16}{1289}, \frac{627}{1289}, -\frac{272}{1289})$ $+ \frac{6}{1289}\sqrt{68530e^4} \otimes e_9$	{1234567, 123467, 13457, 1347, 2579, 279, 5679, 679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:197	$0, 0, 0, 0, 0, \frac{4}{3851}\sqrt{30895}e^{12}, \frac{4}{3851}\sqrt{49265}e^{13}, \frac{4}{3851}\sqrt{182030}e^{14},$ $\frac{4}{3851}\sqrt{115397}e^{17} + \frac{4}{3851}\sqrt{84001}e^{26}$	$(\frac{370}{3851}, -\frac{298}{3851}, -\frac{966}{3851}, \frac{1110}{3851}, \frac{390}{3851}, \frac{72}{3851}, -\frac{596}{3851}, \frac{1480}{3851}, -\frac{226}{3851})$ $+ \frac{4}{3851}\sqrt{275717}e^1 \otimes e_3 + \frac{4}{3851}\sqrt{302270}e^4 \otimes e_9$	{12589, 1289, 15689, 1689, 234568, 23468, 3458, 348}
941:197	$0, 0, 0, 0, 0, \frac{2}{1491}\sqrt{79462}e^{12}, \frac{1}{497}\sqrt{15418}e^{13}, \frac{22}{1491}\sqrt{593}e^{14},$ $\frac{2}{1491}\sqrt{23127}e^{17} + \frac{1}{1491}\sqrt{620278}e^{26}$	$(-\frac{52}{497}, \frac{20}{497}, \frac{92}{497}, \frac{557}{1491}, -\frac{533}{1491}, -\frac{32}{497}, \frac{40}{497}, \frac{401}{1491}, -\frac{12}{497})$ $+ \frac{16}{1491}\sqrt{2965}e^4 \otimes e_9 + \frac{2}{1491}\sqrt{205178}e^2 \otimes e_5$	{123789, 1356789, 24678, 4578}
941:197	$0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{285782}e^{12}, \frac{1}{1241}\sqrt{264922}e^{13}, \frac{2}{1241}\sqrt{11473}e^{14},$ $\frac{298}{1241}\sqrt{7}e^{17} + \frac{3}{1241}\sqrt{118902}e^{26}$	$(\frac{44}{1241}, \frac{180}{1241}, \frac{316}{1241}, \frac{167}{1241}, -\frac{863}{1241}, \frac{224}{1241}, \frac{360}{1241}, \frac{211}{1241}, \frac{404}{1241})$ $+ \frac{2}{1241}\sqrt{548618}e^2 \otimes e_5$	{123479, 123789, 1345679, 1356789, 24678, 267, 4578, 57}
941:197	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{285}e^{12}, \frac{1}{112}\sqrt{285}e^{13}, \frac{1}{56}\sqrt{285}e^{14},$ $\frac{9}{112}\sqrt{38}e^{17} + \frac{1}{112}\sqrt{1254}e^{26}$	$(\frac{5}{28}, -\frac{17}{224}, -\frac{37}{112}, \frac{5}{224}, \frac{15}{28}, \frac{23}{224}, -\frac{17}{112}, \frac{45}{224}, \frac{3}{112})$ $+ \frac{19}{112}\sqrt{15}e^5 \otimes e_9 - \frac{1}{56}\sqrt{1482}e^1 \otimes e_3$	{1249, 1289, 1469, 1689, 234568, 2356, 3458, 35}
941:197	$0, 0, 0, 0, 0, \frac{8}{319}\sqrt{249}e^{12}, \frac{6}{319}\sqrt{83}e^{13}, \frac{8}{319}\sqrt{249}e^{14},$ $\frac{1}{319}\sqrt{7802}e^{17} + \frac{1}{319}\sqrt{14442}e^{26}$	$(\frac{1}{29}, \frac{31}{319}, \frac{51}{319}, -\frac{63}{319}, -\frac{72}{319}, \frac{42}{319}, \frac{62}{319}, -\frac{52}{319}, \frac{73}{319})$ $+ \frac{1}{319}\sqrt{17430}e^1 \otimes e_5 + \frac{1}{319}\sqrt{30046}e^2 \otimes e_8$	{123479, 136789, 2567, 4578}
941:197	$0, 0, 0, 0, 0, \frac{13}{653}\sqrt{258}e^{12}, \frac{13}{653}\sqrt{42}e^{13}, \frac{26}{653}\sqrt{21}e^{14},$ $\frac{13}{653}\sqrt{58}e^{17} + \frac{130}{653}\sqrt{3}e^{26}$	$(\frac{13}{653}, \frac{26}{653}, \frac{39}{653}, -\frac{156}{653}, \frac{234}{653}, \frac{39}{653}, \frac{52}{653}, -\frac{143}{653}, \frac{65}{653})$ $+ \frac{26}{653}\sqrt{87}e^1 \otimes e_4 + \frac{26}{653}\sqrt{87}e^5 \otimes e_9 + \frac{91}{653}\sqrt{10}e^2 \otimes e_8$	{13689, 458}
941:197	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{178}e^{12}, \frac{1}{80}\sqrt{1335}e^{13}, \frac{1}{40}\sqrt{178}e^{14},$ $\frac{1}{80}\sqrt{4094}e^{17} + \frac{1}{80}\sqrt{3382}e^{26}$	$(-\frac{1}{10}, -\frac{1}{160}, \frac{7}{80}, \frac{37}{160}, 1, -\frac{17}{160}, -\frac{1}{80}, \frac{21}{160}, -\frac{9}{80})$ $+ \frac{1}{80}\sqrt{11659}e^5 \otimes e_9$	{1245678, 12567, 14578, 157, 23479, 23789, 34679, 36789}
941:197	$0, 0, 0, 0, 0, \frac{1}{83}\sqrt{30}e^{12}, \frac{1}{83}\sqrt{1335}e^{13}, \frac{1}{83}\sqrt{1005}e^{14},$ $\frac{2}{83}\sqrt{165}e^{17} + \frac{3}{83}\sqrt{5}e^{26}$	$(-\frac{1}{83}, \frac{10}{83}, \frac{21}{83}, -\frac{8}{83}, -\frac{31}{83}, \frac{9}{83}, \frac{20}{83}, -\frac{9}{83}, \frac{19}{83})$ $+ \frac{3}{83}\sqrt{230}e^3 \otimes e_8 + \frac{3}{83}\sqrt{265}e^1 \otimes e_5$	{123469, 1349, 2458, 4568}
941:197	$0, 0, 0, 0, 0, \frac{4}{329}\sqrt{1455}e^{12}, \frac{1}{329}\sqrt{48306}e^{13}, \frac{4}{329}\sqrt{1455}e^{14},$ $\frac{2}{329}\sqrt{12513}e^{17} + \frac{3}{329}\sqrt{582}e^{26}$	$(\frac{80}{329}, \frac{4}{47}, -\frac{24}{329}, \frac{19}{329}, -\frac{211}{329}, \frac{108}{329}, \frac{8}{47}, \frac{99}{329}, \frac{136}{329})$ $+ \frac{18}{329}\sqrt{485}e^1 \otimes e_5$	{1247, 1278, 1467, 1678, 23456789, 235679, 345789, 3579}
941:197	$0, 0, 0, 0, 0, \frac{2}{1265}\sqrt{108309}e^{12}, \frac{1}{1265}\sqrt{967926}e^{13}, \frac{2}{1265}\sqrt{249522}e^{14},$ $\frac{2}{1265}\sqrt{15081}e^{17} + \frac{9}{1265}\sqrt{2742}e^{26}$	$(-\frac{316}{1265}, \frac{298}{1265}, \frac{912}{1265}, -\frac{13}{115}, \frac{221}{1265}, -\frac{18}{1265}, \frac{596}{1265}, -\frac{459}{1265}, \frac{56}{253})$ $+ \frac{6}{1265}\sqrt{79518}e^3 \otimes e_8$	{123456, 12346, 134, 1345, 24589, 2489, 45689, 4689}
941:198	$0, 0, 0, 0, 0, \frac{26}{547}\sqrt{193}e^{12}, \frac{13}{547}\sqrt{334}e^{13}, \frac{26}{547}\sqrt{149}e^{24},$ $\frac{26}{547}\sqrt{93}e^{17} + \frac{13}{547}\sqrt{786}e^{26}$	$(0, \frac{26}{547}, \frac{52}{547}, -\frac{143}{547}, \frac{221}{547}, \frac{26}{547}, \frac{52}{547}, -\frac{117}{547}, \frac{52}{547})$ $+ \frac{26}{547}\sqrt{237}e^2 \otimes e_4 + \frac{26}{547}\sqrt{74}e^3 \otimes e_8 + \frac{26}{547}\sqrt{94}e^5 \otimes e_9$	{2567, 457}
941:198	$0, 0, 0, 0, 0, \frac{38}{1379}\sqrt{105}e^{12}, \frac{19}{1379}\sqrt{258}e^{13}, \frac{114}{1379}\sqrt{3}e^{24},$ $\frac{38}{1379}\sqrt{91}e^{17} + \frac{285}{1379}\sqrt{2}e^{26}$	$(\frac{76}{1379}, \frac{38}{1379}, 0, -\frac{323}{1379}, \frac{513}{1379}, \frac{114}{1379}, \frac{76}{1379}, -\frac{285}{1379}, \frac{152}{1379})$ $+ \frac{114}{1379}\sqrt{26}e^1 \otimes e_8 + \frac{304}{1379}\sqrt{3}e^5 \otimes e_9 + \frac{38}{1379}\sqrt{199}e^2 \otimes e_4$	{2568, 458}
941:198	$0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{576874}e^{12}, \frac{2}{1139}\sqrt{94323}e^{13}, \frac{1}{1139}\sqrt{1380670}e^{24},$ $\frac{1}{1139}\sqrt{527662}e^{17} + \frac{1}{1139}\sqrt{451110}e^{26}$	$(\frac{83}{1139}, \frac{74}{1139}, \frac{65}{1139}, \frac{634}{1139}, -\frac{733}{1139}, \frac{157}{1139}, \frac{148}{1139}, \frac{708}{1139}, \frac{231}{1139})$ $+ \frac{12}{1139}\sqrt{17771}e^4 \otimes e_5$	{123469, 1235689, 13489, 1359, 24, 258, 468, 56}
941:198	$0, 0, 0, 0, 0, \frac{4}{177}\sqrt{415}e^{12}, \frac{1}{177}\sqrt{6806}e^{13}, \frac{10}{177}\sqrt{83}e^{24},$ $\frac{10}{177}\sqrt{83}e^{17} + \frac{1}{177}\sqrt{830}e^{26}$	$(-\frac{10}{59}, \frac{2}{59}, \frac{14}{59}, \frac{65}{177}, -\frac{41}{177}, -\frac{8}{59}, \frac{4}{59}, \frac{71}{177}, -\frac{6}{59})$ $+ \frac{2}{177}\sqrt{2573}e^3 \otimes e_5 + \frac{1}{177}\sqrt{3901}e^4 \otimes e_9$	{124567, 14578, 23789, 3679}
941:198	$0, 0, 0, 0, 0, \frac{2}{437}\sqrt{2581}e^{12}, \frac{3}{437}\sqrt{2314}e^{13}, \frac{1}{437}\sqrt{35422}e^{24},$ $\frac{1}{437}\sqrt{26878}e^{17} + \frac{2}{437}\sqrt{4539}e^{26}$	$(\frac{83}{437}, \frac{5}{437}, -\frac{73}{437}, -\frac{11}{437}, -\frac{100}{437}, \frac{88}{437}, \frac{10}{437}, -\frac{6}{437}, \frac{93}{437})$ $+ \frac{12}{437}\sqrt{178}e^4 \otimes e_5 + \frac{1}{437}\sqrt{44322}e^1 \otimes e_8$	{123469, 1359, 258, 468}
941:198	$0, 0, 0, 0, 0, \frac{8}{1169}\sqrt{2614}e^{12}, \frac{1}{1169}\sqrt{243102}e^{13}, \frac{2}{1169}\sqrt{1307}e^{24},$ $\frac{2}{1169}\sqrt{206506}e^{17} + \frac{1}{1169}\sqrt{744990}e^{26}$	$(-\frac{130}{1169}, -\frac{4}{1169}, \frac{122}{1169}, \frac{31}{167}, 1, -\frac{134}{1169}, -\frac{8}{1169}, \frac{213}{1169}, -\frac{138}{1169})$ $+ \frac{6}{1169}\sqrt{69271}e^5 \otimes e_9$	{1245678, 12567, 1457, 1578, 234789, 2379, 34679, 36789}
941:198	$0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{105522}e^{12}, \frac{1}{1259}\sqrt{115338}e^{13}, \frac{6}{1259}\sqrt{7771}e^{24},$ $\frac{4}{1259}\sqrt{10634}e^{17} + \frac{3}{1259}\sqrt{54806}e^{26}$	$(-\frac{74}{1259}, \frac{80}{1259}, \frac{234}{1259}, -\frac{329}{1259}, \frac{495}{1259}, \frac{6}{1259}, \frac{160}{1259}, -\frac{249}{1259}, \frac{86}{1259})$ $+ \frac{2}{1259}\sqrt{156238}e^2 \otimes e_4 + \frac{2}{1259}\sqrt{82209}e^5 \otimes e_9$	{12379, 134679, 2567, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:198	$0, 0, 0, 0, 0, \frac{14}{1545}\sqrt{737}e^{12}, \frac{77}{1545}\sqrt{58}e^{13}, \frac{14}{1545}\sqrt{1903}e^{24},$ $\frac{28}{1545}\sqrt{770}e^{17} + \frac{7}{1545}\sqrt{22}e^{26}$	$(\frac{26}{515}, -\frac{2}{103}, -\frac{46}{515}, \frac{557}{1545}, -\frac{461}{1545}, \frac{16}{515}, -\frac{4}{103}, \frac{527}{1545}, \frac{6}{515})$ $+ \frac{14}{1545}\sqrt{3531}e^1 \otimes e_5 + \frac{266}{1545}\sqrt{11}e^4 \otimes e_9$	{123689, 139, 245, 4568}
941:198	$0, 0, 0, 0, 0, \frac{2}{129}\sqrt{1443}e^{12}, \frac{7}{387}\sqrt{2886}e^{13}, \frac{2}{387}\sqrt{10582}e^{24},$ $\frac{3}{387}\sqrt{10582}e^{17} + \frac{1}{387}\sqrt{4810}e^{26}$	$(-\frac{64}{387}, \frac{88}{387}, \frac{80}{129}, \frac{29}{387}, -\frac{241}{387}, \frac{8}{129}, \frac{176}{387}, \frac{13}{43}, \frac{112}{387})$ $+ \frac{2}{387}\sqrt{75517}e^3 \otimes e_5$	{123469, 123689, 13489, 139, 245, 258, 4568, 56}
941:198	$0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{237354}e^{12}, \frac{12}{1315}\sqrt{1790}e^{13}, \frac{4}{1315}\sqrt{28103}e^{24},$ $\frac{2}{1315}\sqrt{136398}e^{17} + \frac{6}{1315}\sqrt{23986}e^{26}$	$(\frac{21}{1315}, \frac{162}{1315}, \frac{303}{1315}, -\frac{554}{1315}, \frac{324}{1315}, \frac{183}{1315}, \frac{324}{1315}, -\frac{392}{1315}, \frac{69}{263})$ $+ \frac{2}{1315}\sqrt{354778}e^2 \otimes e_4 + \frac{2}{1315}\sqrt{71958}e^5 \otimes e_8$	{123579, 1345679, 2567, 457}
941:198	$0, 0, 0, 0, 0, \frac{24}{323}\sqrt{35}e^{12}, \frac{28}{323}\sqrt{6}e^{13}, \frac{8}{323}\sqrt{231}e^{24},$ $\frac{20}{323}\sqrt{14}e^{17} + \frac{8}{323}\sqrt{483}e^{26}$	$(-\frac{56}{323}, \frac{2}{17}, \frac{132}{323}, -\frac{74}{323}, \frac{30}{323}, -\frac{18}{323}, \frac{4}{17}, -\frac{36}{323}, \frac{20}{323})$ $- \frac{4}{323}\sqrt{1722}e^3 \otimes e_9 + \frac{8}{323}\sqrt{595}e^2 \otimes e_4$	{12579, 1279, 145679, 14679, 23567, 2367, 3457, 347}
941:198	$0, 0, 0, 0, 0, \frac{24}{323}\sqrt{35}e^{12}, \frac{28}{323}\sqrt{6}e^{13}, \frac{8}{323}\sqrt{231}e^{24},$ $\frac{20}{323}\sqrt{14}e^{17} + \frac{8}{323}\sqrt{483}e^{26}$	$(-\frac{56}{323}, \frac{2}{17}, \frac{132}{323}, -\frac{74}{323}, \frac{30}{323}, -\frac{18}{323}, \frac{4}{17}, -\frac{36}{323}, \frac{20}{323})$ $+ \frac{4}{323}\sqrt{1722}e^3 \otimes e_9 + \frac{8}{323}\sqrt{595}e^2 \otimes e_4$	{12579, 1279, 145679, 14679, 23567, 2367, 3457, 347}
941:198	$0, 0, 0, 0, 0, \frac{2}{343}\sqrt{21867}e^{12}, \frac{3}{343}\sqrt{2758}e^{13}, \frac{2}{343}\sqrt{12805}e^{24},$ $\frac{3}{343}\sqrt{12805}e^{17} + \frac{1}{343}\sqrt{79194}e^{26}$	$(\frac{4}{343}, \frac{50}{343}, \frac{96}{343}, \frac{3}{7}, \frac{33}{343}, \frac{54}{343}, \frac{100}{343}, -\frac{97}{343}, \frac{104}{343})$ $+ \frac{2}{343}\sqrt{30535}e^2 \otimes e_4$	{123579, 12379, 1345679, 134679, 2567, 267, 457, 47}
941:198	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{187}e^{12}, \frac{13}{511}\sqrt{95}e^{13}, \frac{78}{511}\sqrt{3}e^{24},$ $\frac{26}{511}\sqrt{5}e^{17} + \frac{13}{511}\sqrt{345}e^{26}$	$(-\frac{169}{1022}, \frac{52}{511}, \frac{377}{1022}, -\frac{117}{511}, \frac{104}{511}, -\frac{65}{1022}, \frac{104}{511}, -\frac{65}{511}, \frac{39}{1022})$ $+ \frac{13}{511}\sqrt{115}e^5 \otimes e_8 - \frac{13}{511}\sqrt{379}e^3 \otimes e_9 + \frac{13}{511}\sqrt{435}e^2 \otimes e_4$	{12579, 145679, 23567, 3457}
941:198	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{187}e^{12}, \frac{13}{511}\sqrt{95}e^{13}, \frac{78}{511}\sqrt{3}e^{24},$ $\frac{26}{511}\sqrt{5}e^{17} + \frac{13}{511}\sqrt{345}e^{26}$	$(-\frac{169}{1022}, \frac{52}{511}, \frac{377}{1022}, -\frac{117}{511}, \frac{104}{511}, -\frac{65}{1022}, \frac{104}{511}, -\frac{65}{511}, \frac{39}{1022})$ $+ \frac{13}{511}\sqrt{115}e^5 \otimes e_8 + \frac{13}{511}\sqrt{379}e^3 \otimes e_9 + \frac{13}{511}\sqrt{435}e^2 \otimes e_4$	{12579, 145679, 23567, 3457}
941:198	$0, 0, 0, 0, 0, \frac{8}{569}\sqrt{282}e^{12}, \frac{1}{569}\sqrt{59502}e^{13}, \frac{1}{569}\sqrt{52734}e^{24},$ $\frac{1}{569}\sqrt{52734}e^{17} + \frac{4}{569}\sqrt{1833}e^{26}$	$(\frac{59}{569}, \frac{43}{569}, \frac{27}{569}, -\frac{125}{569}, -\frac{114}{569}, \frac{102}{569}, \frac{86}{569}, -\frac{82}{569}, \frac{145}{569})$ $+ \frac{1}{569}\sqrt{93342}e^1 \otimes e_8 + \frac{4}{569}\sqrt{3102}e^3 \otimes e_5$	{123469, 139, 258, 4568}
941:198	$0, 0, 0, 0, 0, \frac{1}{1683}\sqrt{319718}e^{12}, \frac{2}{1683}\sqrt{72037}e^{13}, \frac{1}{1683}\sqrt{456330}e^{24},$ $\frac{1}{561}\sqrt{33866}e^{17} + \frac{1}{1683}\sqrt{83230}e^{26}$	$(-\frac{29}{153}, \frac{64}{1683}, \frac{149}{561}, \frac{32}{561}, \frac{157}{1683}, -\frac{5}{33}, \frac{128}{1683}, \frac{160}{1683}, -\frac{191}{1683})$ $+ \frac{2}{1683}\sqrt{105329}e^4 \otimes e_9 + \frac{1}{561}\sqrt{3157}e^3 \otimes e_8$	{1359, 139, 4568, 468}
941:198	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{70}e^{12}, \frac{3}{61}\sqrt{70}e^{13}, \frac{10}{61}\sqrt{14}e^{24},$ $\frac{7}{61}\sqrt{30}e^{17} + \frac{1}{61}\sqrt{2310}e^{26}$	$(0, \frac{9}{61}, \frac{18}{61}, -\frac{26}{61}, \frac{6}{61}, \frac{9}{61}, \frac{18}{61}, -\frac{17}{61}, \frac{18}{61})$ $+ \frac{1}{61}\sqrt{210}e^3 \otimes e_8 + \frac{2}{61}\sqrt{910}e^2 \otimes e_4$	{123579, 12379, 1345679, 134679}
941:198	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{3422}e^{12}, \frac{2}{71}\sqrt{177}e^{13}, \frac{1}{71}\sqrt{590}e^{24},$ $\frac{1}{71}\sqrt{1770}e^{17} + \frac{3}{71}\sqrt{354}e^{26}$	$(\frac{3}{71}, \frac{10}{71}, \frac{17}{71}, \frac{6}{71}, -\frac{49}{71}, \frac{13}{71}, \frac{20}{71}, \frac{16}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770}e^2 \otimes e_5$	{123479, 123789, 13456789, 135679, 2467, 2678, 4578, 57}
941:198	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{435}e^{12}, \frac{36}{2951}\sqrt{195}e^{13}, \frac{72}{2951}\sqrt{435}e^{24},$ $\frac{108}{2951}\sqrt{203}e^{17} + \frac{36}{2951}\sqrt{849}e^{26}$	$(\frac{870}{2951}, -\frac{102}{2951}, -\frac{1074}{2951}, -\frac{240}{2951}, \frac{1602}{2951}, \frac{768}{2951}, -\frac{204}{2951}, -\frac{342}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^5 \otimes e_8 - \frac{36}{2951}\sqrt{4047}e^1 \otimes e_3$	{12457, 1278, 14678, 1567, 2345679, 236789, 34789, 3579}
941:198	$0, 0, 0, 0, 0, \frac{1}{469}\sqrt{34894}e^{12}, \frac{1}{938}\sqrt{139098}e^{13}, \frac{5}{938}\sqrt{9082}e^{24},$ $\frac{1}{938}\sqrt{90103}e^{17} + \frac{1}{938}\sqrt{93210}e^{26}$	$(-\frac{109}{938}, \frac{181}{1876}, \frac{145}{469}, -\frac{79}{1876}, -\frac{557}{1876}, -\frac{37}{1876}, \frac{181}{938}, \frac{51}{938}, \frac{36}{469})$ $+ \frac{1}{938}\sqrt{170646}e^4 \otimes e_5 + \frac{1}{938}\sqrt{240195}e^3 \otimes e_8$	{123469, 1359, 258, 468}
941:198	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{910}e^{12}, \frac{2}{303}\sqrt{5278}e^{13}, \frac{91}{303}\sqrt{2}e^{24},$ $\frac{2}{303}\sqrt{3731}e^{17} + \frac{1}{303}\sqrt{8554}e^{26}$	$(\frac{1}{303}, \frac{11}{101}, \frac{65}{303}, -\frac{59}{303}, -\frac{30}{101}, \frac{34}{303}, \frac{22}{101}, -\frac{26}{303}, \frac{67}{303})$ $+ \frac{1}{303}\sqrt{27118}e^3 \otimes e_8 + \frac{2}{303}\sqrt{5551}e^1 \otimes e_5$	{123469, 139, 258, 4568}
941:198	$0, 0, 0, 0, 0, \frac{5}{99}\sqrt{158}e^{12}, \frac{2}{99}\sqrt{553}e^{13}, \frac{1}{99}\sqrt{6162}e^{24},$ $\frac{1}{99}\sqrt{6162}e^{17} + \frac{1}{99}\sqrt{1106}e^{26}$	$(-\frac{1}{9}, -\frac{4}{99}, \frac{1}{33}, \frac{20}{33}, \frac{17}{99}, -\frac{5}{33}, -\frac{8}{99}, \frac{56}{99}, -\frac{19}{99})$ $+ \frac{2}{99}\sqrt{3239}e^4 \otimes e_9$	{124567, 12467, 14578, 1478, 235789, 23789, 35679, 3679}
941:198	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{435}e^{12}, \frac{36}{2951}\sqrt{195}e^{13}, \frac{72}{2951}\sqrt{435}e^{24},$ $\frac{108}{2951}\sqrt{203}e^{17} + \frac{36}{2951}\sqrt{849}e^{26}$	$(\frac{870}{2951}, -\frac{102}{2951}, -\frac{1074}{2951}, -\frac{240}{2951}, \frac{1602}{2951}, \frac{768}{2951}, -\frac{204}{2951}, -\frac{342}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786}e^5 \otimes e_8 + \frac{36}{2951}\sqrt{4047}e^1 \otimes e_3$	{12457, 1278, 14678, 1567, 2345679, 236789, 34789, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:198	$0, 0, 0, 0, 0, \frac{1}{921}\sqrt{143354e^{12}}, \frac{1}{921}\sqrt{66982e^{13}}, \frac{1}{921}\sqrt{247270e^{24}},$ $\frac{1}{921}\sqrt{173402e^{17}} + \frac{1}{921}\sqrt{21910e^{26}}$	$(-\frac{21}{307}, -\frac{13}{307}, -\frac{5}{307}, \frac{172}{921}, \frac{446}{921}, -\frac{34}{307}, -\frac{26}{307}, \frac{133}{921}, -\frac{47}{307})$ $+ \frac{2}{921}\sqrt{55401e^5} \otimes e_8 + \frac{5}{921}\sqrt{11894e^4} \otimes e_9$	{123689, 1359, 245, 468}
941:198	$0, 0, 0, 0, 0, \frac{8}{3491}\sqrt{22173e^{12}}, \frac{8}{3491}\sqrt{285e^{13}}, \frac{8}{3491}\sqrt{7638e^{24}},$ $\frac{8}{3491}\sqrt{51585e^{17}} + \frac{24}{3491}\sqrt{2451e^{26}}$	$(\frac{644}{3491}, -\frac{268}{3491}, -\frac{1180}{3491}, \frac{508}{3491}, \frac{1932}{3491}, \frac{376}{3491}, -\frac{536}{3491}, \frac{240}{3491}, \frac{108}{3491})$ $+ \frac{152}{3491}\sqrt{246e^5} \otimes e_9 - \frac{8}{3491}\sqrt{88863e^1} \otimes e_3$	{12489, 129, 1469, 1689, 234568, 2356, 345, 358}
941:198	$0, 0, 0, 0, 0, \frac{4}{1427}\sqrt{6034e^{12}}, \frac{3}{1427}\sqrt{35342e^{13}}, \frac{1}{1427}\sqrt{352558e^{24}},$ $\frac{1}{1427}\sqrt{476686e^{17}} + \frac{4}{1427}\sqrt{6465e^{26}}$	$(\frac{185}{1427}, -\frac{7}{1427}, -\frac{199}{1427}, \frac{239}{1427}, \frac{602}{1427}, \frac{178}{1427}, -\frac{14}{1427}, -\frac{246}{1427}, \frac{171}{1427})$ $+ \frac{12}{1427}\sqrt{2586e^5} \otimes e_9 + \frac{5}{1427}\sqrt{28446e^1} \otimes e_8$	{123469, 139, 258, 4568}
941:198	$0, 0, 0, 0, 0, \frac{1}{305}\sqrt{41422e^{12}}, \frac{1}{305}\sqrt{4470e^{13}}, \frac{2}{305}\sqrt{6109e^{24}},$ $\frac{2}{305}\sqrt{6109e^{17}} + \frac{2}{305}\sqrt{9983e^{26}}$	$(-\frac{3}{61}, \frac{47}{305}, \frac{109}{305}, -\frac{102}{305}, -\frac{8}{61}, \frac{32}{305}, \frac{94}{305}, -\frac{11}{61}, \frac{79}{305})$ $+ \frac{1}{305}\sqrt{19966e^3} \otimes e_5 + \frac{1}{305}\sqrt{62878e^2} \otimes e_4$	{12379, 134679, 2567, 457}
941:198	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33e^{12}}, \frac{1}{25}\sqrt{66e^{13}}, \frac{2}{25}\sqrt{11e^{24}},$ $\frac{2}{25}\sqrt{11e^{17}} + \frac{1}{25}\sqrt{66e^{26}}$	$(\frac{4}{25}, \frac{2}{25}, 0, -\frac{9}{25}, \frac{3}{25}, \frac{6}{25}, \frac{4}{25}, -\frac{7}{25}, \frac{8}{25})$ $+ \frac{2}{25}\sqrt{55e^2} \otimes e_4 + \frac{2}{25}\sqrt{66e^1} \otimes e_8$	{2568, 268, 458, 48}
941:198	$0, 0, 0, 0, 0, \frac{10}{287}\sqrt{418e^{12}}, \frac{1}{287}\sqrt{53922e^{13}}, \frac{2}{287}\sqrt{15466e^{24}},$ $\frac{1}{287}\sqrt{28006e^{17}} + \frac{19}{287}\sqrt{66e^{26}}$	$(-\frac{52}{287}, \frac{53}{287}, \frac{158}{287}, -\frac{104}{287}, \frac{44}{287}, \frac{1}{287}, \frac{106}{287}, -\frac{51}{287}, \frac{54}{287})$ $+ \frac{9}{287}\sqrt{1254e^3} \otimes e_8$	{1234569, 123469, 1359, 139, 258, 28, 4568, 468}
941:198	$0, 0, 0, 0, 0, \frac{8}{3491}\sqrt{22173e^{12}}, \frac{8}{3491}\sqrt{285e^{13}}, \frac{8}{3491}\sqrt{7638e^{24}},$ $\frac{8}{3491}\sqrt{51585e^{17}} + \frac{24}{3491}\sqrt{2451e^{26}}$	$(\frac{644}{3491}, -\frac{268}{3491}, -\frac{1180}{3491}, \frac{508}{3491}, \frac{1932}{3491}, \frac{376}{3491}, -\frac{536}{3491}, \frac{240}{3491}, \frac{108}{3491})$ $+ \frac{152}{3491}\sqrt{246e^5} \otimes e_9 + \frac{8}{3491}\sqrt{88863e^1} \otimes e_3$	{12489, 129, 1469, 1689, 234568, 2356, 345, 358}
941:198	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{435e^{12}}, \frac{36}{2951}\sqrt{195e^{13}}, \frac{72}{2951}\sqrt{435e^{24}},$ $\frac{108}{2951}\sqrt{203e^{17}} + \frac{36}{2951}\sqrt{849e^{26}}$	$(\frac{870}{2951}, -\frac{102}{2951}, -\frac{1074}{2951}, \frac{1022}{2951}, -\frac{922}{2951}, \frac{768}{2951}, -\frac{204}{2951}, \frac{920}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786e^4} \otimes e_5 - \frac{36}{2951}\sqrt{4047e^1} \otimes e_3$	{1247, 12578, 14678, 1567, 234679, 2356789, 34789, 3579}
941:198	$0, 0, 0, 0, 0, \frac{5}{339}\sqrt{238e^{12}}, \frac{2}{339}\sqrt{238e^{13}}, \frac{1}{339}\sqrt{18802e^{24}},$ $\frac{1}{339}\sqrt{6902e^{17}} + \frac{7}{339}\sqrt{374e^{26}}$	$(-\frac{7}{113}, \frac{2}{113}, \frac{11}{113}, \frac{110}{339}, -\frac{1}{3}, -\frac{5}{113}, \frac{4}{113}, \frac{116}{339}, -\frac{3}{113})$ $+ \frac{10}{339}\sqrt{357e^2} \otimes e_3 + \frac{4}{339}\sqrt{2261e^4} \otimes e_9$	{12389, 13569, 246, 458}
941:198	$0, 0, 0, 0, 0, \frac{4}{747}\sqrt{1169e^{12}}, \frac{2}{747}\sqrt{6346e^{13}}, \frac{2}{747}\sqrt{26553e^{24}},$ $\frac{4}{249}\sqrt{1169e^{17}} + \frac{2}{747}\sqrt{3173e^{26}}$	$(\frac{103}{747}, -\frac{64}{747}, -\frac{249}{249}, \frac{103}{249}, \frac{86}{747}, \frac{13}{249}, -\frac{128}{747}, \frac{245}{747}, -\frac{25}{747})$ $- \frac{2}{249}\sqrt{5177e^1} \otimes e_3 + \frac{2}{747}\sqrt{63794e^4} \otimes e_9$	{124567, 12467, 14578, 1478, 235789, 23789, 35679, 3679}
941:198	$0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{576874e^{12}}, \frac{2}{1139}\sqrt{94323e^{13}}, \frac{1}{1139}\sqrt{1380670e^{24}},$ $\frac{1}{1139}\sqrt{527662e^{17}} + \frac{1}{1139}\sqrt{451110e^{26}}$	$(\frac{83}{1139}, \frac{74}{1139}, \frac{65}{1139}, -\frac{302}{1139}, 1, \frac{157}{1139}, \frac{148}{1139}, -\frac{228}{1139}, \frac{231}{1139})$ $+ \frac{12}{1139}\sqrt{17771e^5} \otimes e_8$	{1234569, 123689, 13489, 1359, 245, 28, 468, 56}
941:198	$0, 0, 0, 0, 0, \frac{2}{1007}\sqrt{82005e^{12}}, \frac{2}{1007}\sqrt{2130e^{13}}, \frac{20}{1007}\sqrt{426e^{24}},$ $\frac{1}{1007}\sqrt{90170e^{17}} + \frac{5}{1007}\sqrt{9798e^{26}}$	$(\frac{103}{1007}, \frac{101}{1007}, \frac{99}{1007}, -\frac{254}{1007}, -\frac{252}{1007}, \frac{204}{1007}, \frac{202}{1007}, -\frac{153}{1007}, \frac{305}{1007})$ $+ \frac{1}{1007}\sqrt{240690e^1} \otimes e_5 + \frac{1}{1007}\sqrt{412510e^2} \otimes e_4$	{12379, 134679, 2567, 457}
941:198	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{76370e^{12}}, \frac{3}{1193}\sqrt{85098e^{13}}, \frac{4}{1193}\sqrt{6546e^{24}},$ $\frac{2}{1193}\sqrt{204017e^{17}} + \frac{1}{1193}\sqrt{150558e^{26}}$	$(\frac{328}{1193}, \frac{96}{1193}, -\frac{136}{1193}, \frac{167}{1193}, -\frac{763}{1193}, \frac{424}{1193}, \frac{192}{1193}, \frac{263}{1193}, \frac{520}{1193})$ $+ \frac{2}{1193}\sqrt{533499e^1} \otimes e_5$	{1247, 1278, 14678, 167, 2345679, 2356789, 345789, 3579}
941:198	$0, 0, 0, 0, 0, \frac{1}{581}\sqrt{6666e^{12}}, \frac{30}{581}\sqrt{11e^{13}}, \frac{1}{581}\sqrt{16566e^{24}},$ $\frac{1}{581}\sqrt{16566e^{17}} + \frac{1}{581}\sqrt{4686e^{26}}$	$(\frac{7}{83}, -\frac{22}{581}, -\frac{93}{581}, \frac{38}{581}, \frac{57}{581}, \frac{27}{581}, -\frac{44}{581}, \frac{16}{581}, \frac{5}{581})$ $+ \frac{2}{581}\sqrt{4818e^1} \otimes e_8 + \frac{4}{581}\sqrt{957e^4} \otimes e_9$	{1359, 139, 4568, 468}
941:198	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{13e^{12}}, \frac{3}{25}\sqrt{26e^{13}}, \frac{1}{25}\sqrt{286e^{24}},$ $\frac{1}{25}\sqrt{286e^{17}} + \frac{2}{25}\sqrt{39e^{26}}$	$(\frac{7}{25}, \frac{1}{25}, -\frac{1}{5}, -\frac{7}{25}, \frac{4}{25}, \frac{8}{25}, \frac{2}{25}, -\frac{6}{25}, \frac{9}{25})$ $+ \frac{1}{25}\sqrt{546e^1} \otimes e_8$	{1234569, 123469, 1359, 139, 258, 28, 4568, 468}
941:198	$0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{435e^{12}}, \frac{36}{2951}\sqrt{195e^{13}}, \frac{72}{2951}\sqrt{435e^{24}},$ $\frac{108}{2951}\sqrt{203e^{17}} + \frac{36}{2951}\sqrt{849e^{26}}$	$(\frac{870}{2951}, -\frac{102}{2951}, -\frac{1074}{2951}, \frac{1022}{2951}, -\frac{922}{2951}, \frac{768}{2951}, -\frac{204}{2951}, \frac{920}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786e^4} \otimes e_5 + \frac{36}{2951}\sqrt{4047e^1} \otimes e_3$	{1247, 12578, 14678, 1567, 234679, 2356789, 34789, 3579}
941:198	$0, 0, 0, 0, 0, \frac{4}{747}\sqrt{1169e^{12}}, \frac{2}{747}\sqrt{6346e^{13}}, \frac{2}{747}\sqrt{26553e^{24}},$ $\frac{4}{249}\sqrt{1169e^{17}} + \frac{2}{747}\sqrt{3173e^{26}}$	$(\frac{103}{747}, -\frac{64}{747}, -\frac{249}{249}, \frac{103}{249}, \frac{86}{747}, \frac{13}{249}, -\frac{128}{747}, \frac{245}{747}, -\frac{25}{747})$ $+ \frac{2}{249}\sqrt{5177e^1} \otimes e_3 + \frac{2}{747}\sqrt{63794e^4} \otimes e_9$	{124567, 12467, 14578, 1478, 235789, 23789, 35679, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:198	$0, 0, 0, 0, 0, \frac{1}{429}\sqrt{43014}e^{12}, \frac{2}{429}\sqrt{13065}e^{13}, \frac{3}{143}\sqrt{670}e^{24},$ $\frac{2}{429}\sqrt{10653}e^{17} + \frac{1}{143}\sqrt{670}e^{26}$	$(-\frac{79}{429}, \frac{37}{429}, \frac{51}{143}, -\frac{85}{429}, \frac{196}{429}, -\frac{14}{143}, \frac{74}{429}, -\frac{16}{143}, -\frac{5}{429})$ $+ \frac{1}{429}\sqrt{93666}e^3 \otimes e_8 + \frac{2}{429}\sqrt{14673}e^5 \otimes e_9$	{123469, 139, 258, 4568}
941:199	$0, 0, 0, 0, 0, -\frac{2}{409}\sqrt{17806}e^{12}, \frac{1}{409}\sqrt{33770}e^{13}, \frac{2}{409}\sqrt{17806}e^{14},$ $\frac{1}{409}\sqrt{89030}e^{26} + \frac{2}{409}\sqrt{3991}e^{37}$	$(-\frac{110}{409}, \frac{148}{409}, \frac{148}{409}, -\frac{49}{409}, \frac{67}{409}, \frac{38}{409}, \frac{38}{409}, -\frac{159}{409}, \frac{186}{409})$ $+ \frac{6}{409}\sqrt{5833}e^2 \otimes e_8$	{1234579, 123479, 12459, 1249, 1356789, 136789, 15689, 1689, 2356, 236, 2567, 267, 3458, 348, 4578, 478, 1234579, 123479, 12459, 1249, 1356789, 136789, 15689, 1689, 2356, 236, 2567, 267, 3458, 348, 4578, 478}
941:199	$0, 0, 0, 0, 0, \frac{2}{409}\sqrt{17806}e^{12}, \frac{1}{409}\sqrt{33770}e^{13}, \frac{2}{409}\sqrt{17806}e^{14},$ $\frac{1}{409}\sqrt{89030}e^{26} + \frac{2}{409}\sqrt{3991}e^{37}$	$(-\frac{110}{409}, \frac{148}{409}, \frac{148}{409}, -\frac{49}{409}, \frac{67}{409}, \frac{38}{409}, \frac{38}{409}, -\frac{159}{409}, \frac{186}{409})$ $+ \frac{6}{409}\sqrt{5833}e^2 \otimes e_8$	{1234579, 123479, 12459, 1249, 1356789, 136789, 15689, 1689, 2356, 236, 2567, 267, 3458, 348, 4578, 478, 1234579, 123479, 12459, 1249, 1356789, 136789, 15689, 1689, 2356, 236, 2567, 267, 3458, 348, 4578, 478}
941:199	$0, 0, 0, 0, 0, -\frac{1}{36}\sqrt{65}e^{12}, \frac{1}{36}\sqrt{65}e^{13}, \frac{1}{108}\sqrt{3198}e^{14},$ $\frac{1}{108}\sqrt{1326}e^{26} + \frac{1}{108}\sqrt{1326}e^{37}$	$(-\frac{5}{36}, \frac{1}{72}, \frac{1}{72}, \frac{1}{4}, \frac{17}{36}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{195}e^5 \otimes e_8 + \frac{1}{36}\sqrt{494}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:199	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{65}e^{12}, \frac{1}{36}\sqrt{65}e^{13}, \frac{1}{108}\sqrt{3198}e^{14},$ $\frac{1}{108}\sqrt{1326}e^{26} + \frac{1}{108}\sqrt{1326}e^{37}$	$(-\frac{5}{36}, \frac{1}{72}, \frac{1}{72}, \frac{1}{4}, \frac{17}{36}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{195}e^5 \otimes e_8 + \frac{1}{36}\sqrt{494}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:199	$0, 0, 0, 0, 0, -\frac{1}{105}\sqrt{4494}e^{12}, \frac{1}{105}\sqrt{4494}e^{13}, \frac{1}{105}\sqrt{4494}e^{14},$ $\frac{1}{105}\sqrt{1070}e^{26} + \frac{1}{105}\sqrt{1070}e^{37}$	$(\frac{2}{5}, -\frac{2}{35}, -\frac{2}{35}, -\frac{1}{105}, -\frac{13}{21}, \frac{12}{35}, \frac{12}{35}, \frac{41}{105}, \frac{2}{7})$ $+ \frac{1}{105}\sqrt{18190}e^1 \otimes e_5$	{12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5, 12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5}
941:199	$0, 0, 0, 0, 0, \frac{1}{105}\sqrt{4494}e^{12}, \frac{1}{105}\sqrt{4494}e^{13}, \frac{1}{105}\sqrt{4494}e^{14},$ $\frac{1}{105}\sqrt{1070}e^{26} + \frac{1}{105}\sqrt{1070}e^{37}$	$(\frac{2}{5}, -\frac{2}{35}, -\frac{2}{35}, -\frac{1}{105}, -\frac{13}{21}, \frac{12}{35}, \frac{12}{35}, \frac{41}{105}, \frac{2}{7})$ $+ \frac{1}{105}\sqrt{18190}e^1 \otimes e_5$	{12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5, 12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5}
941:199	$0, 0, 0, 0, 0, -\frac{1}{27}\sqrt{133}e^{12}, \frac{1}{27}\sqrt{133}e^{13}, \frac{1}{81}\sqrt{798}e^{14},$ $\frac{1}{81}\sqrt{285}e^{26} + \frac{1}{81}\sqrt{285}e^{37}$	$(\frac{7}{27}, -\frac{1}{27}, -\frac{1}{27}, -\frac{4}{9}, \frac{14}{27}, \frac{2}{9}, \frac{2}{9}, -\frac{5}{27}, \frac{5}{27})$ $+ \frac{1}{27}\sqrt{494}e^1 \otimes e_4 + \frac{8}{81}\sqrt{57}e^5 \otimes e_8$	{12389, 12789, 16789, 234678, 2468, 48, 12389, 12789, 16789, 234678, 2468, 48}
941:199	$0, 0, 0, 0, 0, \frac{1}{27}\sqrt{133}e^{12}, \frac{1}{27}\sqrt{133}e^{13}, \frac{1}{81}\sqrt{798}e^{14},$ $\frac{1}{81}\sqrt{285}e^{26} + \frac{1}{81}\sqrt{285}e^{37}$	$(\frac{7}{27}, -\frac{1}{27}, -\frac{1}{27}, -\frac{4}{9}, \frac{14}{27}, \frac{2}{9}, \frac{2}{9}, -\frac{5}{27}, \frac{5}{27})$ $+ \frac{1}{27}\sqrt{494}e^1 \otimes e_4 + \frac{8}{81}\sqrt{57}e^5 \otimes e_8$	{12389, 12789, 16789, 234678, 2468, 48, 12389, 12789, 16789, 234678, 2468, 48}
941:199	$0, 0, 0, 0, 0, -\frac{1}{52}\sqrt{205}e^{12}, \frac{1}{52}\sqrt{205}e^{13}, \frac{1}{52}\sqrt{1558}e^{14},$ $\frac{1}{52}\sqrt{1066}e^{26} + \frac{1}{52}\sqrt{1066}e^{37}$	$(-\frac{5}{52}, -\frac{3}{104}, -\frac{3}{104}, \frac{33}{52}, \frac{9}{52}, -\frac{1}{8}, -\frac{1}{8}, \frac{7}{13}, -\frac{2}{13})$ $+ \frac{1}{52}\sqrt{3526}e^4 \otimes e_9$	{1234567, 123467, 12456, 1246, 14, 145, 2359, 239, 2579, 279, 5679, 679, 1234567, 123467, 12456, 1246, 14, 145, 2359, 239, 2579, 279, 5679, 679}
941:199	$0, 0, 0, 0, 0, \frac{1}{52}\sqrt{205}e^{12}, \frac{1}{52}\sqrt{205}e^{13}, \frac{1}{52}\sqrt{1558}e^{14},$ $\frac{1}{52}\sqrt{1066}e^{26} + \frac{1}{52}\sqrt{1066}e^{37}$	$(-\frac{5}{52}, -\frac{3}{104}, -\frac{3}{104}, \frac{33}{52}, \frac{9}{52}, -\frac{1}{8}, -\frac{1}{8}, \frac{7}{13}, -\frac{2}{13})$ $+ \frac{1}{52}\sqrt{3526}e^4 \otimes e_9$	{1234567, 123467, 12456, 1246, 14, 145, 2359, 239, 2579, 279, 5679, 679, 1234567, 123467, 12456, 1246, 14, 145, 2359, 239, 2579, 279, 5679, 679}
941:199	$0, 0, 0, 0, 0, -\frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13}, \frac{4}{11}\sqrt{7}e^{14},$ $\frac{1}{11}\sqrt{14}e^{26} + \frac{1}{11}\sqrt{14}e^{37}$	$(-\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{2}{11}, 1, \frac{1}{11}, \frac{1}{11}, -\frac{3}{11}, \frac{3}{11})$ $+ \frac{6}{11}\sqrt{7}e^5 \otimes e_8$	{1234567, 123678, 12456, 1268, 145, 18, 23489, 2359, 24789, 2579, 46789, 5679, 1234567, 123678, 12456, 1268, 145, 18, 23489, 2359, 24789, 2579, 46789, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:199	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13}, \frac{4}{11}\sqrt{7}e^{14},$ $\frac{1}{11}\sqrt{14}e^{26} + \frac{1}{11}\sqrt{14}e^{37}$	$(-\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{2}{11}, 1, \frac{1}{11}, \frac{1}{11}, -\frac{3}{11}, \frac{3}{11})$ $+ \frac{6}{11}\sqrt{7}e^5 \otimes e_8$	{1234567, 123678, 12456, 1268, 145, 18, 23489, 2359, 24789, 2579, 46789, 5679, 1234567, 123678, 12456, 1268, 145, 18, 23489, 2359, 24789, 2579, 46789, 5679}
941:199	$0, 0, 0, 0, 0, -\frac{1}{141}\sqrt{795}e^{12}, \frac{1}{141}\sqrt{795}e^{13}, \frac{2}{141}\sqrt{1113}e^{14},$ $\frac{1}{141}\sqrt{2279}e^{26} + \frac{1}{141}\sqrt{2279}e^{37}$	$(\frac{5}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{44}{47}, -\frac{38}{141}, \frac{1}{47}, \frac{1}{47}, \frac{59}{141}, -\frac{3}{47})$ $+ \frac{1}{141}\sqrt{5830}e^1 \otimes e_5 + \frac{1}{141}\sqrt{7314}e^4 \otimes e_9$	{12389, 12789, 16789, 2345678, 24568, 458, 12389, 12789, 16789, 2345678, 24568, 458}
941:199	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{795}e^{12}, \frac{1}{141}\sqrt{795}e^{13}, \frac{2}{141}\sqrt{1113}e^{14},$ $\frac{1}{141}\sqrt{2279}e^{26} + \frac{1}{141}\sqrt{2279}e^{37}$	$(\frac{5}{47}, -\frac{4}{47}, -\frac{4}{47}, \frac{44}{141}, -\frac{38}{141}, \frac{1}{47}, \frac{1}{47}, \frac{59}{141}, -\frac{3}{47})$ $+ \frac{1}{141}\sqrt{5830}e^1 \otimes e_5 + \frac{1}{141}\sqrt{7314}e^4 \otimes e_9$	{12389, 12789, 16789, 2345678, 24568, 458, 12389, 12789, 16789, 2345678, 24568, 458}
941:199	$0, 0, 0, 0, 0, -\frac{7}{401}\sqrt{2274}e^{12}, \frac{2}{401}\sqrt{3790}e^{13}, \frac{2}{401}\sqrt{3790}e^{14},$ $\frac{2}{401}\sqrt{26909}e^{26} + \frac{5}{401}\sqrt{758}e^{37}$	$(-\frac{40}{401}, \frac{112}{401}, \frac{112}{401}, \frac{87}{401}, -\frac{267}{401}, \frac{72}{401}, \frac{72}{401}, \frac{47}{401}, \frac{184}{401})$ $+ \frac{2}{401}\sqrt{63293}e^2 \otimes e_5$	{1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578, 1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578}
941:199	$0, 0, 0, 0, 0, \frac{7}{401}\sqrt{2274}e^{12}, \frac{2}{401}\sqrt{3790}e^{13}, \frac{2}{401}\sqrt{3790}e^{14},$ $\frac{2}{401}\sqrt{26909}e^{26} + \frac{5}{401}\sqrt{758}e^{37}$	$(-\frac{40}{401}, \frac{112}{401}, \frac{112}{401}, \frac{87}{401}, -\frac{267}{401}, \frac{72}{401}, \frac{72}{401}, \frac{47}{401}, \frac{184}{401})$ $+ \frac{2}{401}\sqrt{63293}e^2 \otimes e_5$	{1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578, 1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578}
941:199	$0, 0, 0, 0, 0, -\frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13}, \frac{4}{11}\sqrt{7}e^{14},$ $\frac{1}{11}\sqrt{14}e^{26} + \frac{1}{11}\sqrt{14}e^{37}$	$(-\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{7}{11}, -\frac{7}{11}, \frac{1}{11}, \frac{1}{11}, \frac{6}{11}, \frac{3}{11})$ $+ \frac{6}{11}\sqrt{7}e^4 \otimes e_5$	{123467, 1235678, 1246, 12568, 14, 158, 23489, 2359, 24789, 2579, 46789, 5679, 123467, 1235678, 1246, 12568, 14, 158, 23489, 2359, 24789, 2579, 46789, 5679}
941:199	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13}, \frac{4}{11}\sqrt{7}e^{14},$ $\frac{1}{11}\sqrt{14}e^{26} + \frac{1}{11}\sqrt{14}e^{37}$	$(-\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{7}{11}, -\frac{7}{11}, \frac{1}{11}, \frac{1}{11}, \frac{6}{11}, \frac{3}{11})$ $+ \frac{6}{11}\sqrt{7}e^4 \otimes e_5$	{123467, 1235678, 1246, 12568, 14, 158, 23489, 2359, 24789, 2579, 46789, 5679, 123467, 1235678, 1246, 12568, 14, 158, 23489, 2359, 24789, 2579, 46789, 5679}
941:199	$0, 0, 0, 0, 0, -\frac{12}{281}\sqrt{59}e^{12}, \frac{12}{281}\sqrt{3}e^{13}, \frac{6}{281}\sqrt{102}e^{14},$ $\frac{18}{281}\sqrt{30}e^{26} + \frac{6}{281}\sqrt{46}e^{37}$	$(\frac{6}{281}, \frac{12}{281}, \frac{12}{281}, -\frac{66}{281}, \frac{102}{281}, \frac{18}{281}, \frac{18}{281}, -\frac{60}{281}, \frac{30}{281})$ $+ \frac{12}{281}\sqrt{67}e^1 \otimes e_4 + \frac{48}{281}\sqrt{7}e^2 \otimes e_8 + \frac{6}{281}\sqrt{302}e^5 \otimes e_9$	{13689, 16789, 34578, 458, 13689, 16789, 34578, 458}
941:199	$0, 0, 0, 0, 0, \frac{12}{281}\sqrt{59}e^{12}, \frac{12}{281}\sqrt{3}e^{13}, \frac{6}{281}\sqrt{102}e^{14},$ $\frac{18}{281}\sqrt{30}e^{26} + \frac{6}{281}\sqrt{46}e^{37}$	$(\frac{6}{281}, \frac{12}{281}, \frac{12}{281}, -\frac{66}{281}, \frac{102}{281}, \frac{18}{281}, \frac{18}{281}, -\frac{60}{281}, \frac{30}{281})$ $+ \frac{12}{281}\sqrt{67}e^1 \otimes e_4 + \frac{48}{281}\sqrt{7}e^2 \otimes e_8 + \frac{6}{281}\sqrt{302}e^5 \otimes e_9$	{13689, 16789, 34578, 458, 13689, 16789, 34578, 458}
941:199	$0, 0, 0, 0, 0, -\frac{4}{69}\sqrt{55}e^{12}, \frac{4}{69}\sqrt{55}e^{13}, \frac{2}{23}\sqrt{10}e^{14},$ $\frac{2}{69}\sqrt{190}e^{26} + \frac{2}{69}\sqrt{190}e^{37}$	$(\frac{22}{69}, -\frac{4}{23}, -\frac{4}{23}, -\frac{6}{23}, \frac{38}{69}, \frac{10}{69}, \frac{10}{69}, \frac{4}{69}, -\frac{2}{69})$ $+ \frac{2}{69}\sqrt{590}e^5 \otimes e_9 + \frac{4}{69}\sqrt{155}e^1 \otimes e_4$	{1239, 1279, 1679, 234567, 2456, 45, 1239, 1279, 1679, 234567, 2456, 45}
941:199	$0, 0, 0, 0, 0, \frac{4}{69}\sqrt{55}e^{12}, \frac{4}{69}\sqrt{55}e^{13}, \frac{2}{23}\sqrt{10}e^{14},$ $\frac{2}{69}\sqrt{190}e^{26} + \frac{2}{69}\sqrt{190}e^{37}$	$(\frac{22}{69}, -\frac{4}{23}, -\frac{4}{23}, -\frac{6}{23}, \frac{38}{69}, \frac{10}{69}, \frac{10}{69}, \frac{4}{69}, -\frac{2}{69})$ $+ \frac{2}{69}\sqrt{590}e^5 \otimes e_9 + \frac{4}{69}\sqrt{155}e^1 \otimes e_4$	{1239, 1279, 1679, 234567, 2456, 45, 1239, 1279, 1679, 234567, 2456, 45}
941:199	$0, 0, 0, 0, 0, -\frac{1}{101}\sqrt{6213}e^{12}, \frac{1}{101}\sqrt{6213}e^{13}, \frac{1}{101}\sqrt{2834}e^{14},$ $\frac{3}{101}\sqrt{109}e^{26} + \frac{3}{101}\sqrt{109}e^{37}$	$(\frac{57}{101}, -\frac{15}{101}, -\frac{15}{101}, -\frac{52}{101}, \frac{18}{101}, \frac{42}{101}, \frac{42}{101}, \frac{5}{101}, \frac{27}{101})$ $+ \frac{1}{101}\sqrt{18094}e^1 \otimes e_4$	{12359, 1239, 12579, 1279, 15679, 1679, 234567, 23467, 2456, 246, 4, 45, 12359, 1239, 12579, 1279, 15679, 1679, 234567, 23467, 2456, 246, 4, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:199	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{6213e^{12}}, \frac{1}{101}\sqrt{6213e^{13}}, \frac{1}{101}\sqrt{2834e^{14}},$ $\frac{3}{101}\sqrt{109e^{26}} + \frac{3}{101}\sqrt{109e^{37}}$	$(\frac{57}{101}, -\frac{15}{101}, -\frac{15}{101}, -\frac{52}{101}, \frac{18}{101}, \frac{42}{101}, \frac{42}{101}, \frac{5}{101}, \frac{27}{101})$ $+ \frac{1}{101}\sqrt{18094e^1} \otimes e_4$	{12359, 1239, 12579, 1279, 15679, 1679, 234567, 23467, 2456, 246, 4, 45, 12359, 1239, 12579, 1279, 15679, 1679, 234567, 23467, 2456, 246, 4, 45}
941:199	$0, 0, 0, 0, 0, -\frac{6}{311}\sqrt{209e^{12}}, \frac{6}{311}\sqrt{418e^{13}}, \frac{6}{311}\sqrt{418e^{14}},$ $\frac{3}{311}\sqrt{1254e^{26}} + \frac{3}{311}\sqrt{2090e^{37}}$	$(-\frac{69}{311}, \frac{99}{311}, \frac{99}{311}, -\frac{3}{311}, -\frac{72}{311}, \frac{30}{311}, \frac{30}{311}, -\frac{72}{311}, \frac{129}{311})$ $+ \frac{3}{311}\sqrt{4294e^2} \otimes e_5 + \frac{3}{311}\sqrt{5966e^3} \otimes e_8$	{12349, 12789, 134569, 156789, 2367, 2468, 357, 458, 12349, 12789, 134569, 156789, 2367, 2468, 357, 458}
941:199	$0, 0, 0, 0, 0, \frac{6}{311}\sqrt{209e^{12}}, \frac{6}{311}\sqrt{418e^{13}}, \frac{6}{311}\sqrt{418e^{14}},$ $\frac{3}{311}\sqrt{1254e^{26}} + \frac{3}{311}\sqrt{2090e^{37}}$	$(-\frac{69}{311}, \frac{99}{311}, \frac{99}{311}, -\frac{3}{311}, -\frac{72}{311}, \frac{30}{311}, \frac{30}{311}, -\frac{72}{311}, \frac{129}{311})$ $+ \frac{3}{311}\sqrt{4294e^2} \otimes e_5 + \frac{3}{311}\sqrt{5966e^3} \otimes e_8$	{12349, 12789, 134569, 156789, 2367, 2468, 357, 458, 12349, 12789, 134569, 156789, 2367, 2468, 357, 458}
941:199	$0, 0, 0, 0, 0, -\frac{1}{26}\sqrt{58e^{12}}, \frac{1}{26}\sqrt{58e^{13}}, \frac{1}{26}\sqrt{58e^{14}},$ $\frac{1}{26}\sqrt{377e^{26}} + \frac{1}{26}\sqrt{377e^{37}}$	$(\frac{1}{13}, -\frac{5}{52}, -\frac{5}{52}, \frac{2}{13}, 1, -\frac{1}{52}, -\frac{1}{52}, \frac{3}{13}, -\frac{3}{26})$ $+ \frac{1}{26}\sqrt{1218e^5} \otimes e_9$	{12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5, 12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5}
941:199	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{58e^{12}}, \frac{1}{26}\sqrt{58e^{13}}, \frac{1}{26}\sqrt{58e^{14}},$ $\frac{1}{26}\sqrt{377e^{26}} + \frac{1}{26}\sqrt{377e^{37}}$	$(\frac{1}{13}, -\frac{5}{52}, -\frac{5}{52}, \frac{2}{13}, 1, -\frac{1}{52}, -\frac{1}{52}, \frac{3}{13}, -\frac{3}{26})$ $+ \frac{1}{26}\sqrt{1218e^5} \otimes e_9$	{12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5, 12349, 12389, 12479, 12789, 14679, 16789, 2345678, 23567, 24568, 256, 458, 5}
941:199	$0, 0, 0, 0, 0, -\frac{1}{1193}\sqrt{161674e^{12}}, \frac{1}{1193}\sqrt{135110e^{13}}, \frac{4}{1193}\sqrt{22213e^{14}},$ $\frac{1}{1193}\sqrt{250526e^{26}} + \frac{1}{1193}\sqrt{46258e^{37}}$	$(-\frac{295}{1193}, \frac{320}{1193}, \frac{320}{1193}, \frac{157}{1193}, -\frac{301}{1193}, \frac{25}{1193}, \frac{25}{1193}, -\frac{138}{1193}, \frac{345}{1193})$ $+ \frac{36}{1193}\sqrt{458e^2} \otimes e_8 + \frac{6}{1193}\sqrt{10763e^4} \otimes e_5$	{123479, 1249, 1356789, 15689, 2356, 2567, 348, 478, 123479, 1249, 1356789, 15689, 2356, 2567, 348, 478}
941:199	$0, 0, 0, 0, 0, \frac{1}{1193}\sqrt{161674e^{12}}, \frac{1}{1193}\sqrt{135110e^{13}}, \frac{4}{1193}\sqrt{22213e^{14}},$ $\frac{1}{1193}\sqrt{250526e^{26}} + \frac{1}{1193}\sqrt{46258e^{37}}$	$(-\frac{295}{1193}, \frac{320}{1193}, \frac{320}{1193}, \frac{157}{1193}, -\frac{301}{1193}, \frac{25}{1193}, \frac{25}{1193}, -\frac{138}{1193}, \frac{345}{1193})$ $+ \frac{36}{1193}\sqrt{458e^2} \otimes e_8 + \frac{6}{1193}\sqrt{10763e^4} \otimes e_5$	{123479, 1249, 1356789, 15689, 2356, 2567, 348, 478, 123479, 1249, 1356789, 15689, 2356, 2567, 348, 478}
941:201	$0, 0, 0, 0, 0, \frac{7}{447}\sqrt{346e^{12}}, \frac{1}{447}\sqrt{7266e^{13}}, \frac{1}{447}\sqrt{24566e^{24}},$ $\frac{1}{447}\sqrt{43942e^{16}} + \frac{1}{149}\sqrt{1730e^{37}}$	$(\frac{14}{149}, -\frac{22}{149}, -\frac{4}{149}, \frac{191}{447}, -\frac{131}{447}, -\frac{8}{149}, \frac{10}{149}, \frac{125}{447}, \frac{6}{149})$ $+ \frac{1}{447}\sqrt{64010e^1} \otimes e_5 + \frac{4}{447}\sqrt{4498e^4} \otimes e_9$	{12389, 12789, 34578, 458}
941:201	$0, 0, 0, 0, 0, \frac{1}{297}\sqrt{10947e^{12}}, \frac{4}{297}\sqrt{205e^{13}}, \frac{1}{297}\sqrt{12587e^{24}},$ $\frac{1}{297}\sqrt{9430e^{16}} + \frac{1}{297}\sqrt{1353e^{37}}$	$(\frac{40}{297}, \frac{2}{297}, \frac{7}{99}, -\frac{4}{27}, -\frac{80}{297}, \frac{14}{99}, \frac{61}{297}, -\frac{14}{99}, \frac{82}{297})$ $+ \frac{1}{297}\sqrt{24846e^1} \otimes e_8 + \frac{41}{297}\sqrt{11e^2} \otimes e_5$	{1356, 1567, 236789, 2689}
941:201	$0, 0, 0, 0, 0, \frac{3}{1433}\sqrt{49182e^{12}}, \frac{2}{1433}\sqrt{382917e^{13}}, \frac{2}{1433}\sqrt{80799e^{24}},$ $\frac{4}{1433}\sqrt{199070e^{16}} + \frac{1}{1433}\sqrt{1384122e^{37}}$	$(\frac{100}{1433}, \frac{276}{1433}, \frac{188}{1433}, \frac{87}{1433}, -\frac{983}{1433}, \frac{376}{1433}, \frac{288}{1433}, \frac{363}{1433}, \frac{476}{1433})$ $+ \frac{4}{1433}\sqrt{176821e^3} \otimes e_5$	{123469, 123689, 1245679, 1256789, 34678, 367, 4568, 56}
941:201	$0, 0, 0, 0, 0, \frac{2}{69}\sqrt{29e^{12}}, \frac{2}{23}\sqrt{29e^{13}}, \frac{5}{69}\sqrt{174e^{24}},$ $\frac{1}{69}\sqrt{174e^{16}} + \frac{2}{69}\sqrt{174e^{37}}$	$(\frac{4}{23}, -\frac{2}{23}, \frac{44}{23}, \frac{43}{69}, -\frac{69}{23}, \frac{2}{23}, \frac{5}{23}, \frac{38}{69}, \frac{6}{23})$ $+ \frac{4}{69}\sqrt{609e^4} \otimes e_5$	{13489, 1359, 14789, 1579, 2347, 23578, 24, 258}
941:201	$0, 0, 0, 0, 0, \frac{4}{1029}\sqrt{6494e^{12}}, \frac{10}{1029}\sqrt{573e^{13}}, \frac{1}{1029}\sqrt{132554e^{24}},$ $\frac{1}{1029}\sqrt{225762e^{16}} + \frac{1}{343}\sqrt{5730e^{37}}$	$(\frac{50}{343}, -\frac{184}{1029}, -\frac{17}{1029}, -\frac{16}{343}, \frac{166}{343}, -\frac{34}{1029}, \frac{19}{147}, -\frac{232}{1029}, \frac{116}{1029})$ $+ \frac{1}{1029}\sqrt{284590e^5} \otimes e_9 + \frac{2}{343}\sqrt{11269e^1} \otimes e_8$	{12349, 12479, 34578, 458}
941:201	$0, 0, 0, 0, 0, \frac{2}{521}\sqrt{4559e^{12}}, \frac{4}{521}\sqrt{194e^{13}}, \frac{4}{1563}\sqrt{41322e^{24}},$ $\frac{2}{1563}\sqrt{69258e^{16}} + \frac{10}{1563}\sqrt{2910e^{37}}$	$(\frac{16}{521}, \frac{86}{521}, \frac{35}{521}, \frac{140}{521}, \frac{248}{521}, -\frac{70}{521}, -\frac{19}{521}, \frac{54}{521}, -\frac{54}{521})$ $+ \frac{10}{1563}\sqrt{6693e^5} \otimes e_8 + \frac{2}{521}\sqrt{26481e^4} \otimes e_9$	{1359, 1579, 23457, 245}
941:201	$0, 0, 0, 0, 0, \frac{2}{4413}\sqrt{259251e^{12}}, \frac{2}{4413}\sqrt{499205e^{13}}, \frac{4}{1471}\sqrt{31882e^{24}},$ $\frac{4}{4413}\sqrt{166961e^{16}} + \frac{2}{4413}\sqrt{78027e^{37}}$	$(\frac{1190}{4413}, -\frac{1160}{4413}, \frac{5}{1471}, \frac{224}{1471}, -\frac{1006}{4413}, \frac{10}{1471}, \frac{1205}{4413}, -\frac{488}{4413}, \frac{1220}{4413})$ $+ \frac{2}{4413}\sqrt{1277797e^4} \otimes e_5 + \frac{2}{4413}\sqrt{1990947e^1} \otimes e_8$	{1356, 1567, 2356789, 25689}
941:201	$0, 0, 0, 0, 0, \frac{4}{129}\sqrt{95e^{12}}, \frac{1}{387}\sqrt{26030e^{13}}, \frac{11}{387}\sqrt{190e^{24}},$ $\frac{4}{387}\sqrt{570e^{16}} + \frac{5}{387}\sqrt{1102e^{37}}$	$(\frac{25}{387}, -\frac{7}{387}, \frac{43}{43}, -\frac{79}{387}, \frac{46}{129}, \frac{2}{43}, \frac{34}{387}, -\frac{2}{9}, \frac{1}{9})$ $+ \frac{1}{387}\sqrt{47310e^3} \otimes e_8 + \frac{8}{387}\sqrt{285e^5} \otimes e_9$	{123469, 126789, 3567, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:201	$0, 0, 0, 0, 0, \frac{3}{1409}\sqrt{216062}e^{12}, \frac{46}{1409}\sqrt{231}e^{13}, \frac{10}{1409}\sqrt{3542}e^{24},$ $\frac{2}{1409}\sqrt{100947}e^{16} + \frac{3}{1409}\sqrt{17710}e^{37}$	$(-\frac{276}{1409}, \frac{960}{1409}, \frac{342}{1409}, -\frac{811}{1409}, \frac{249}{1409}, \frac{684}{1409}, \frac{66}{1409}, \frac{149}{1409}, \frac{408}{1409})$ $+ \frac{4}{1409}\sqrt{256795}e^2 \otimes e_4$	{134567, 13467, 1456, 146, 23569, 2369, 25679, 2679}
941:201	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{5}e^{12}, \frac{1}{17}\sqrt{70}e^{13}, \frac{5}{17}\sqrt{2}e^{24},$ $\frac{1}{17}\sqrt{5}e^{16} + \frac{5}{17}\sqrt{2}e^{37}$	$(\frac{3}{17}, -\frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{110}e^3 \otimes e_8 + \frac{2}{17}\sqrt{10}e^1 \otimes e_5$	{123469, 126789, 3567, 4568}
941:201	$0, 0, 0, 0, 0, \frac{16}{207}\sqrt{46}e^{12}, \frac{32}{207}\sqrt{5}e^{13}, \frac{8}{207}\sqrt{30}e^{24},$ $\frac{40}{207}\sqrt{6}e^{16} + \frac{8}{207}\sqrt{110}e^{37}$	$(-\frac{40}{207}, \frac{8}{207}, \frac{16}{207}, -\frac{56}{207}, \frac{40}{207}, \frac{32}{207}, -\frac{8}{207}, \frac{16}{207}, -\frac{8}{207})$ $+ \frac{16}{207}\sqrt{87}e^2 \otimes e_4 + \frac{8}{207}\sqrt{386}e^5 \otimes e_9$	{134567, 1456, 2369, 2679}
941:201	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{16882}e^{12}, \frac{1}{995}\sqrt{332502}e^{13}, \frac{2}{995}\sqrt{68629}e^{24},$ $\frac{1}{995}\sqrt{173958}e^{16} + \frac{16}{995}\sqrt{1101}e^{37}$	$(\frac{117}{995}, \frac{39}{995}, \frac{78}{995}, -\frac{328}{995}, \frac{126}{995}, \frac{156}{995}, \frac{39}{995}, \frac{199}{995}, -\frac{289}{995}, \frac{273}{995})$ $+ \frac{1}{995}\sqrt{579126}e^3 \otimes e_8 + \frac{4}{995}\sqrt{3670}e^2 \otimes e_4$	{1256789, 126789, 4568, 468}
941:201	$0, 0, 0, 0, 0, \frac{3}{1907}\sqrt{5474}e^{12}, \frac{21}{1907}\sqrt{166}e^{13}, \frac{6}{1907}\sqrt{2681}e^{24},$ $\frac{21}{1907}\sqrt{38}e^{16} + \frac{12}{1907}\sqrt{595}e^{37}$	$(\frac{117}{1907}, -\frac{201}{1907}, -\frac{42}{1907}, \frac{96}{1907}, \frac{174}{1907}, -\frac{84}{1907}, \frac{75}{1907}, -\frac{105}{1907}, \frac{33}{1907})$ $+ \frac{12}{1907}\sqrt{602}e^4 \otimes e_9 + \frac{3}{1907}\sqrt{14630}e^3 \otimes e_8$	{1256789, 126789, 4568, 468}
941:201	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{9042}e^{12}, \frac{2}{123}\sqrt{411}e^{13}, \frac{2}{123}\sqrt{2055}e^{24},$ $\frac{1}{123}\sqrt{137}e^{16} + \frac{1}{123}\sqrt{1370}e^{37}$	$(-\frac{4}{41}, \frac{20}{41}, \frac{8}{41}, -\frac{7}{123}, -\frac{77}{123}, \frac{16}{41}, \frac{4}{41}, \frac{53}{123}, \frac{12}{41})$ $+ \frac{10}{123}\sqrt{274}e^2 \otimes e_5$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}
941:201	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{782}e^{13}, \frac{1}{45}\sqrt{646}e^{24},$ $\frac{2}{45}\sqrt{102}e^{16} + \frac{1}{45}\sqrt{646}e^{37}$	$(\frac{7}{45}, -\frac{1}{45}, \frac{1}{15}, -\frac{13}{45}, \frac{2}{15}, \frac{2}{15}, \frac{2}{9}, -\frac{14}{45}, \frac{13}{45})$ $+ \frac{1}{45}\sqrt{1326}e^3 \otimes e_8$	{1234569, 123469, 1256789, 126789, 3567, 367, 4568, 468}
941:201	$0, 0, 0, 0, 0, \frac{14}{537}\sqrt{87}e^{12}, \frac{4}{537}\sqrt{609}e^{13}, \frac{1}{537}\sqrt{66990}e^{24},$ $\frac{2}{537}\sqrt{9338}e^{16} + \frac{4}{537}\sqrt{2030}e^{37}$	$(-\frac{16}{179}, \frac{20}{179}, \frac{2}{179}, \frac{167}{537}, -\frac{143}{537}, \frac{4}{179}, -\frac{14}{179}, \frac{227}{537}, -\frac{12}{179})$ $+ \frac{1}{537}\sqrt{83230}e^2 \otimes e_5 + \frac{2}{179}\sqrt{3045}e^4 \otimes e_9$	{1345678, 14568, 23689, 26789}
941:201	$0, 0, 0, 0, 0, \frac{2}{1567}\sqrt{11823}e^{12}, \frac{2}{1567}\sqrt{138498}e^{13}, \frac{24}{1567}\sqrt{563}e^{24},$ $\frac{1}{1567}\sqrt{1126}e^{16} + \frac{1}{1567}\sqrt{300642}e^{37}$	$(\frac{323}{1567}, -\frac{141}{1567}, \frac{91}{1567}, -\frac{99}{1567}, \frac{472}{1567}, \frac{182}{1567}, \frac{414}{1567}, \frac{240}{1567}, \frac{505}{1567})$ $+ \frac{1}{1567}\sqrt{744286}e^3 \otimes e_5 + \frac{1}{1567}\sqrt{807342}e^1 \otimes e_8$	{12349, 124579, 3478, 458}
941:201	$0, 0, 0, 0, 0, \frac{3}{1529}\sqrt{69126}e^{12}, \frac{54}{1529}\sqrt{205}e^{13}, \frac{24}{1529}\sqrt{1599}e^{24},$ $\frac{18}{1529}\sqrt{2993}e^{16} + \frac{3}{1529}\sqrt{13530}e^{37}$	$(\frac{540}{1529}, -\frac{424}{1529}, \frac{58}{1529}, -\frac{13}{139}, \frac{273}{1529}, \frac{116}{1529}, \frac{598}{1529}, -\frac{567}{1529}, \frac{656}{1529})$ $+ \frac{12}{1529}\sqrt{19311}e^1 \otimes e_8$	{1356, 136, 1567, 167, 2356789, 236789, 25689, 2689}
941:201	$0, 0, 0, 0, 0, \frac{1}{1507}\sqrt{155730}e^{12}, \frac{1}{1507}\sqrt{674830}e^{13}, \frac{10}{1507}\sqrt{537}e^{24},$ $\frac{1}{1507}\sqrt{90395}e^{16} + \frac{1}{1507}\sqrt{181685}e^{37}$	$(-\frac{85}{1507}, \frac{551}{1507}, \frac{233}{1507}, -\frac{344}{1507}, -\frac{662}{1507}, \frac{466}{1507}, \frac{148}{1507}, \frac{207}{1507}, \frac{381}{1507})$ $+ \frac{1}{1507}\sqrt{1501810}e^3 \otimes e_5 + \frac{1}{1507}\sqrt{878890}e^2 \otimes e_4$	{134689, 1456789, 23678, 2568}
941:201	$0, 0, 0, 0, 0, \frac{16}{527}\sqrt{82}e^{12}, \frac{32}{527}\sqrt{43}e^{13}, \frac{8}{527}\sqrt{610}e^{24},$ $\frac{24}{527}\sqrt{26}e^{16} + \frac{40}{527}\sqrt{30}e^{37}$	$(\frac{24}{527}, \frac{8}{527}, \frac{16}{527}, -\frac{120}{527}, \frac{184}{527}, \frac{32}{527}, \frac{40}{527}, -\frac{112}{527}, \frac{56}{527})$ $+ \frac{128}{527}\sqrt{5}e^3 \otimes e_8 + \frac{16}{527}\sqrt{23}e^2 \otimes e_4 + \frac{8}{527}\sqrt{514}e^5 \otimes e_9$	{126789, 4568}
941:201	$0, 0, 0, 0, 0, \frac{16}{425}\sqrt{157}e^{12}, \frac{2}{425}\sqrt{1570}e^{13}, \frac{4}{1275}\sqrt{20253}e^{24},$ $\frac{14}{1275}\sqrt{471}e^{16} + \frac{2}{1275}\sqrt{16014}e^{37}$	$(-\frac{4}{85}, \frac{118}{425}, \frac{49}{425}, -\frac{196}{425}, \frac{236}{425}, \frac{98}{425}, \frac{29}{425}, -\frac{78}{425}, \frac{78}{425})$ $+ \frac{2}{1275}\sqrt{262347}e^5 \otimes e_8 + \frac{6}{425}\sqrt{3297}e^2 \otimes e_4$	{134678, 1468, 23689, 26789}
941:201	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{2030}e^{12}, \frac{1}{81}\sqrt{70}e^{13}, \frac{7}{81}\sqrt{10}e^{24},$ $\frac{1}{81}\sqrt{1190}e^{16} + \frac{1}{81}\sqrt{210}e^{37}$	$(\frac{2}{81}, \frac{2}{9}, \frac{10}{81}, -\frac{17}{81}, -\frac{11}{27}, \frac{20}{81}, \frac{4}{27}, \frac{1}{81}, \frac{22}{81})$ $+ \frac{1}{81}\sqrt{2870}e^1 \otimes e_5 + \frac{1}{81}\sqrt{35}e^2 \otimes e_4$	{1346, 1467, 235679, 2569}
941:201	$0, 0, 0, 0, 0, \frac{3}{2029}\sqrt{102358}e^{12}, \frac{4}{2029}\sqrt{12585}e^{13}, \frac{2}{2029}\sqrt{109909}e^{24},$ $\frac{2}{2029}\sqrt{178707}e^{16} + \frac{3}{2029}\sqrt{11746}e^{37}$	$(\frac{240}{2029}, \frac{120}{2029}, \frac{180}{2029}, -\frac{719}{2029}, \frac{237}{2029}, \frac{360}{2029}, \frac{420}{2029}, -\frac{599}{2029}, \frac{600}{2029})$ $+ \frac{2}{2029}\sqrt{291133}e^2 \otimes e_4 + \frac{6}{2029}\sqrt{51179}e^1 \otimes e_8$	{2356789, 236789, 25689, 2689}
941:201	$0, 0, 0, 0, 0, \frac{2}{2203}\sqrt{26455}e^{12}, \frac{13}{2203}\sqrt{814}e^{13}, \frac{1}{2203}\sqrt{562474}e^{24},$ $\frac{1}{2203}\sqrt{498982}e^{16} + \frac{1}{2203}\sqrt{158730}e^{37}$	$(\frac{338}{2203}, -\frac{576}{2203}, -\frac{119}{2203}, \frac{507}{2203}, \frac{245}{2203}, -\frac{238}{2203}, \frac{219}{2203}, -\frac{69}{2203}, \frac{100}{2203})$ $+ \frac{1}{2203}\sqrt{775742}e^4 \otimes e_9 + \frac{1}{2203}\sqrt{818070}e^1 \otimes e_8$	{34578, 3478, 458, 48}
941:201	$0, 0, 0, 0, 0, \frac{4}{387}\sqrt{570}e^{12}, \frac{1}{387}\sqrt{26030}e^{13}, \frac{5}{387}\sqrt{1102}e^{24},$ $\frac{4}{129}\sqrt{95}e^{16} + \frac{11}{387}\sqrt{190}e^{37}$	$(\frac{25}{387}, \frac{41}{387}, \frac{11}{129}, -\frac{103}{387}, -\frac{6}{43}, \frac{22}{129}, \frac{58}{387}, -\frac{62}{387}, \frac{91}{387})$ $+ \frac{1}{387}\sqrt{47310}e^3 \otimes e_8 + \frac{8}{387}\sqrt{285}e^2 \otimes e_5$	{123469, 126789, 3567, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:201	$0, 0, 0, 0, 0, \frac{1}{301}\sqrt{8126}e^{12}, \frac{2}{301}\sqrt{239}e^{13}, \frac{2}{301}\sqrt{12667}e^{24},$ $\frac{2}{301}\sqrt{9082}e^{16} + \frac{5}{301}\sqrt{1434}e^{37}$	$(-\frac{4}{301}, -\frac{36}{301}, -\frac{20}{301}, \frac{195}{301}, \frac{53}{301}, -\frac{40}{301}, -\frac{24}{301}, \frac{159}{301}, -\frac{44}{301})$ $+ \frac{4}{301}\sqrt{7409}e^4 \otimes e_9$	{1234567, 123467, 12456, 1246, 3569, 369, 5679, 679}
941:201	$0, 0, 0, 0, 0, \frac{8}{2043}\sqrt{4665}e^{12}, \frac{1}{2043}\sqrt{488270}e^{13}, \frac{29}{2043}\sqrt{622}e^{24},$ $\frac{4}{2043}\sqrt{15861}e^{16} + \frac{25}{2043}\sqrt{622}e^{37}$	$(\frac{289}{2043}, -\frac{175}{2043}, \frac{19}{681}, -\frac{79}{2043}, -\frac{130}{681}, \frac{38}{681}, \frac{346}{2043}, -\frac{254}{2043}, \frac{403}{2043})$ $+ \frac{1}{2043}\sqrt{796782}e^3 \otimes e_8 + \frac{8}{681}\sqrt{622}e^4 \otimes e_5$	{123469, 1256789, 3567, 468}
941:201	$0, 0, 0, 0, 0, \frac{7}{23}\sqrt{6}e^{12}, \frac{3}{23}\sqrt{14}e^{13}, \frac{1}{23}\sqrt{42}e^{24},$ $\frac{7}{23}\sqrt{6}e^{16} + \frac{1}{23}\sqrt{42}e^{37}$	$(\frac{6}{23}, -\frac{2}{23}, \frac{2}{23}, \frac{5}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{8}{23}, \frac{3}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798}e^1 \otimes e_5$	{1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569}
941:201	$0, 0, 0, 0, 0, \frac{24}{1127}\sqrt{230}e^{12}, \frac{48}{1127}\sqrt{6}e^{13}, \frac{180}{1127}\sqrt{2}e^{24},$ $\frac{36}{1127}\sqrt{118}e^{16} + \frac{12}{1127}\sqrt{190}e^{37}$	$(\frac{48}{1127}, \frac{24}{1127}, \frac{36}{1127}, -\frac{264}{1127}, \frac{408}{1127}, \frac{72}{1127}, \frac{12}{161}, -\frac{240}{1127}, \frac{120}{1127})$ $+ \frac{12}{1127}\sqrt{1202}e^5 \otimes e_9 + \frac{24}{1127}\sqrt{259}e^2 \otimes e_4 + \frac{48}{1127}\sqrt{115}e^1 \otimes e_8$	{34578, 458}
941:201	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{29}e^{12}, \frac{2}{23}\sqrt{29}e^{13}, \frac{5}{69}\sqrt{174}e^{24},$ $\frac{1}{69}\sqrt{174}e^{16} + \frac{2}{69}\sqrt{174}e^{37}$	$(\frac{4}{23}, -\frac{2}{23}, \frac{1}{23}, -\frac{4}{23}, \frac{1}{23}, \frac{5}{23}, -\frac{6}{23}, \frac{6}{23})$ $+ \frac{4}{69}\sqrt{609}e^5 \otimes e_8$	{13489, 1359, 14789, 1579, 23457, 2378, 245, 28}
941:201	$0, 0, 0, 0, 0, \frac{4}{123}\sqrt{137}e^{12}, \frac{2}{123}\sqrt{411}e^{13}, \frac{1}{123}\sqrt{1370}e^{24},$ $\frac{1}{123}\sqrt{9042}e^{16} + \frac{2}{123}\sqrt{2055}e^{37}$	$(-\frac{4}{41}, \frac{10}{123}, -\frac{1}{123}, \frac{6}{41}, \frac{1}{123}, -\frac{2}{123}, -\frac{13}{123}, \frac{28}{123}, -\frac{14}{123})$ $+ \frac{10}{123}\sqrt{274}e^5 \otimes e_9$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}
941:202	$0, 0, 0, 0, 0, -\frac{1}{23}\sqrt{130}e^{12}, \frac{2}{23}\sqrt{35}e^{13}, \frac{6}{23}\sqrt{5}e^{24},$ $\frac{2}{23}\sqrt{30}e^{26} + \frac{5}{23}\sqrt{6}e^{37}$	$(\frac{2}{23}, 0, 0, -\frac{5}{23}, \frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{5}{23}, \frac{2}{23})$ $+ \frac{10}{23}e^2 \otimes e_4 + \frac{2}{23}\sqrt{10}e^5 \otimes e_9 + \frac{2}{23}\sqrt{65}e^3 \otimes e_8$	{123469, 139, 23457, 3567, 123469, 139, 23457, 3567}
941:202	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{130}e^{12}, \frac{2}{23}\sqrt{35}e^{13}, \frac{6}{23}\sqrt{5}e^{24},$ $\frac{2}{23}\sqrt{30}e^{26} + \frac{5}{23}\sqrt{6}e^{37}$	$(\frac{2}{23}, 0, 0, -\frac{5}{23}, \frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{5}{23}, \frac{2}{23})$ $+ \frac{10}{23}e^2 \otimes e_4 + \frac{2}{23}\sqrt{10}e^5 \otimes e_9 + \frac{2}{23}\sqrt{65}e^3 \otimes e_8$	{123469, 139, 23457, 3567, 123469, 139, 23457, 3567}
941:202	$0, 0, 0, 0, 0, -\frac{2}{17}\sqrt{5}e^{12}, \frac{5}{17}\sqrt{2}e^{13}, \frac{1}{17}\sqrt{70}e^{24},$ $\frac{2}{17}\sqrt{5}e^{26} + \frac{5}{17}\sqrt{2}e^{37}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{5}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{110}e^3 \otimes e_8 + \frac{2}{17}\sqrt{10}e^2 \otimes e_5$	{123469, 126789, 1359, 145789, 2347, 28, 3567, 4568, 123469, 126789, 1359, 145789, 2347, 28, 3567, 4568}
941:202	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{5}e^{12}, \frac{5}{17}\sqrt{2}e^{13}, \frac{1}{17}\sqrt{70}e^{24},$ $\frac{2}{17}\sqrt{5}e^{26} + \frac{5}{17}\sqrt{2}e^{37}$	$(-\frac{1}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{5}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{110}e^3 \otimes e_8 + \frac{2}{17}\sqrt{10}e^2 \otimes e_5$	{123469, 126789, 1359, 145789, 2347, 28, 3567, 4568, 123469, 126789, 1359, 145789, 2347, 28, 3567, 4568}
941:202	$0, 0, 0, 0, 0, -\frac{4}{123}\sqrt{137}e^{12}, \frac{1}{123}\sqrt{1370}e^{13}, \frac{2}{123}\sqrt{411}e^{24},$ $\frac{1}{123}\sqrt{9042}e^{26} + \frac{2}{123}\sqrt{2055}e^{37}$	$(\frac{10}{123}, -\frac{4}{41}, -\frac{4}{41}, \frac{29}{123}, \frac{1}{123}, -\frac{2}{123}, -\frac{2}{123}, \frac{17}{123}, -\frac{14}{123})$ $+ \frac{10}{123}\sqrt{274}e^5 \otimes e_9$	{123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:202	$0, 0, 0, 0, 0, \frac{4}{123}\sqrt{137}e^{12}, \frac{1}{123}\sqrt{1370}e^{13}, \frac{2}{123}\sqrt{411}e^{24},$ $\frac{1}{123}\sqrt{9042}e^{26} + \frac{2}{123}\sqrt{2055}e^{37}$	$(\frac{10}{123}, -\frac{4}{41}, -\frac{4}{41}, \frac{29}{123}, \frac{1}{123}, -\frac{2}{123}, -\frac{2}{123}, \frac{17}{123}, -\frac{14}{123})$ $+ \frac{10}{123}\sqrt{274}e^5 \otimes e_9$	{123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:202	$0, 0, 0, 0, 0, -\frac{1}{43}\sqrt{1365}e^{12}, \frac{3}{43}\sqrt{35}e^{13}, \frac{1}{43}\sqrt{770}e^{24},$ $\frac{1}{43}\sqrt{1365}e^{26} + \frac{3}{43}\sqrt{35}e^{37}$	$(-\frac{9}{43}, \frac{15}{43}, \frac{15}{43}, -\frac{20}{43}, \frac{6}{43}, \frac{6}{43}, \frac{6}{43}, -\frac{5}{43}, \frac{21}{43})$ $+ \frac{1}{43}\sqrt{2590}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 1345679, 134679, 14569, 1469, 2356, 236, 2567, 267, 34, 345, 457, 47, 123579, 12379, 1259, 129, 1345679, 134679, 14569, 1469, 2356, 236, 2567, 267, 34, 345, 457, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:202	$0, 0, 0, 0, 0, \frac{1}{43}\sqrt{1365}e^{12}, \frac{3}{43}\sqrt{35}e^{13}, \frac{1}{43}\sqrt{770}e^{24},$ $\frac{1}{43}\sqrt{1365}e^{26} + \frac{3}{43}\sqrt{35}e^{37}$	$(-\frac{9}{43}, \frac{15}{43}, \frac{15}{43}, -\frac{20}{43}, \frac{6}{43}, \frac{6}{43}, \frac{6}{43}, -\frac{5}{43}, \frac{21}{43})$ $+ \frac{1}{43}\sqrt{2590}e^2 \otimes e_4$	{123579, 12379, 1259, 129, 1345679, 134679, 14569, 1469, 2356, 236, 2567, 267, 34, 345, 457, 47, 123579, 12379, 1259, 129, 1345679, 134679, 14569, 1469, 2356, 236, 2567, 267, 34, 345, 457, 47}
941:202	$0, 0, 0, 0, 0, -\frac{1}{89}\sqrt{2090}e^{12}, \frac{1}{89}\sqrt{1870}e^{13}, \frac{12}{89}\sqrt{55}e^{24},$ $\frac{1}{89}\sqrt{2090}e^{26} + \frac{1}{89}\sqrt{1870}e^{37}$	$(\frac{17}{89}, -\frac{1}{89}, -\frac{1}{89}, \frac{53}{89}, -\frac{57}{89}, \frac{16}{89}, \frac{16}{89}, \frac{52}{89}, \frac{15}{89})$ $+ \frac{2}{89}\sqrt{4015}e^4 \otimes e_5$	{123469, 1235689, 124679, 1256789, 13489, 1359, 14789, 1579, 2347, 23578, 24, 258, 34678, 3567, 468, 56, 123469, 1235689, 124679, 1256789, 13489, 1359, 14789, 1579, 2347, 23578, 24, 258, 34678, 3567, 468, 56}
941:202	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{2090}e^{12}, \frac{1}{89}\sqrt{1870}e^{13}, \frac{12}{89}\sqrt{55}e^{24},$ $\frac{1}{89}\sqrt{2090}e^{26} + \frac{1}{89}\sqrt{1870}e^{37}$	$(\frac{17}{89}, -\frac{1}{89}, -\frac{1}{89}, \frac{53}{89}, -\frac{57}{89}, \frac{16}{89}, \frac{16}{89}, \frac{52}{89}, \frac{15}{89})$ $+ \frac{2}{89}\sqrt{4015}e^4 \otimes e_5$	{123469, 1235689, 124679, 1256789, 13489, 1359, 14789, 1579, 2347, 23578, 24, 258, 34678, 3567, 468, 56, 123469, 1235689, 124679, 1256789, 13489, 1359, 14789, 1579, 2347, 23578, 24, 258, 34678, 3567, 468, 56}
941:202	$0, 0, 0, 0, 0, -\frac{1}{33}\sqrt{247}e^{12}, \frac{1}{33}\sqrt{133}e^{13}, \frac{1}{33}\sqrt{114}e^{24},$ $\frac{1}{33}\sqrt{247}e^{26} + \frac{1}{33}\sqrt{133}e^{37}$	$(-\frac{2}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{3}{11}, -\frac{3}{11}, \frac{4}{33}, \frac{4}{33}, \frac{1}{33}, \frac{14}{33})$ $+ \frac{1}{33}\sqrt{494}e^3 \otimes e_5 + \frac{4}{33}\sqrt{38}e^2 \otimes e_4$	{1239, 12579, 13469, 145679, 2367, 256, 347, 45, 1239, 12579, 13469, 145679, 2367, 256, 347, 45}
941:202	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{247}e^{12}, \frac{1}{33}\sqrt{133}e^{13}, \frac{1}{33}\sqrt{114}e^{24},$ $\frac{1}{33}\sqrt{247}e^{26} + \frac{1}{33}\sqrt{133}e^{37}$	$(-\frac{2}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{3}{11}, -\frac{3}{11}, \frac{4}{33}, \frac{4}{33}, \frac{1}{33}, \frac{14}{33})$ $+ \frac{1}{33}\sqrt{494}e^3 \otimes e_5 + \frac{4}{33}\sqrt{38}e^2 \otimes e_4$	{1239, 12579, 13469, 145679, 2367, 256, 347, 45, 1239, 12579, 13469, 145679, 2367, 256, 347, 45}
941:202	$0, 0, 0, 0, 0, -\frac{7}{447}\sqrt{330}e^{12}, \frac{14}{447}\sqrt{165}e^{13}, \frac{14}{447}\sqrt{165}e^{24},$ $\frac{14}{447}\sqrt{110}e^{26} + \frac{7}{447}\sqrt{770}e^{37}$	$(\frac{44}{149}, -\frac{28}{149}, -\frac{28}{149}, \frac{209}{447}, -\frac{113}{447}, \frac{16}{149}, \frac{16}{149}, \frac{125}{447}, -\frac{12}{149})$ $+ \frac{14}{447}\sqrt{430}e^1 \otimes e_5 + \frac{28}{149}\sqrt{15}e^4 \otimes e_9$	{12389, 12789, 1369, 1679, 234567, 2456, 34578, 458, 12389, 12789, 1369, 1679, 234567, 2456, 34578, 458}
941:202	$0, 0, 0, 0, 0, \frac{7}{447}\sqrt{330}e^{12}, \frac{14}{447}\sqrt{165}e^{13}, \frac{14}{447}\sqrt{165}e^{24},$ $\frac{14}{447}\sqrt{110}e^{26} + \frac{7}{447}\sqrt{770}e^{37}$	$(\frac{44}{149}, -\frac{28}{149}, -\frac{28}{149}, \frac{209}{447}, -\frac{113}{447}, \frac{16}{149}, \frac{16}{149}, \frac{125}{447}, -\frac{12}{149})$ $+ \frac{14}{447}\sqrt{430}e^1 \otimes e_5 + \frac{28}{149}\sqrt{15}e^4 \otimes e_9$	{12389, 12789, 1369, 1679, 234567, 2456, 34578, 458, 12389, 12789, 1369, 1679, 234567, 2456, 34578, 458}
941:202	$0, 0, 0, 0, 0, -\frac{1}{19}\sqrt{165}e^{12}, \frac{1}{19}\sqrt{165}e^{13}, \frac{2}{19}\sqrt{55}e^{24},$ $\frac{1}{19}\sqrt{165}e^{26} + \frac{1}{19}\sqrt{165}e^{37}$	$(\frac{3}{19}, 0, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19})$ $+ \frac{10}{19}\sqrt{3}e^3 \otimes e_8 + \frac{2}{19}\sqrt{35}e^2 \otimes e_4$	{1234569, 123469, 1359, 139, 23457, 2347, 3567, 367, 1234569, 123469, 1359, 139, 23457, 2347, 3567, 367}
941:202	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{165}e^{12}, \frac{1}{19}\sqrt{165}e^{13}, \frac{2}{19}\sqrt{55}e^{24},$ $\frac{1}{19}\sqrt{165}e^{26} + \frac{1}{19}\sqrt{165}e^{37}$	$(\frac{3}{19}, 0, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19})$ $+ \frac{10}{19}\sqrt{3}e^3 \otimes e_8 + \frac{2}{19}\sqrt{35}e^2 \otimes e_4$	{1234569, 123469, 1359, 139, 23457, 2347, 3567, 367, 1234569, 123469, 1359, 139, 23457, 2347, 3567, 367}
941:202	$0, 0, 0, 0, 0, -\frac{4}{387}\sqrt{570}e^{12}, \frac{5}{387}\sqrt{1102}e^{13}, \frac{1}{387}\sqrt{26030}e^{24},$ $\frac{4}{129}\sqrt{95}e^{26} + \frac{11}{387}\sqrt{190}e^{37}$	$(\frac{41}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, -\frac{6}{43}, \frac{22}{129}, \frac{22}{129}, -\frac{70}{387}, \frac{91}{387})$ $+ \frac{1}{387}\sqrt{47310}e^3 \otimes e_8 + \frac{8}{387}\sqrt{285}e^1 \otimes e_5$	{123469, 126789, 139, 14789, 23457, 258, 3567, 4568, 123469, 126789, 139, 14789, 23457, 258, 3567, 4568}
941:202	$0, 0, 0, 0, 0, \frac{4}{387}\sqrt{570}e^{12}, \frac{5}{387}\sqrt{1102}e^{13}, \frac{1}{387}\sqrt{26030}e^{24},$ $\frac{4}{129}\sqrt{95}e^{26} + \frac{11}{387}\sqrt{190}e^{37}$	$(\frac{41}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, -\frac{6}{43}, \frac{22}{129}, \frac{22}{129}, -\frac{70}{387}, \frac{91}{387})$ $+ \frac{1}{387}\sqrt{47310}e^3 \otimes e_8 + \frac{8}{387}\sqrt{285}e^1 \otimes e_5$	{123469, 126789, 139, 14789, 23457, 258, 3567, 4568, 123469, 126789, 139, 14789, 23457, 258, 3567, 4568}
941:202	$0, 0, 0, 0, 0, -\frac{1}{23}\sqrt{105}e^{12}, \frac{1}{23}\sqrt{357}e^{13}, \frac{3}{23}\sqrt{14}e^{24},$ $\frac{1}{23}\sqrt{105}e^{26} + \frac{1}{23}\sqrt{357}e^{37}$	$(-\frac{2}{23}, \frac{6}{23}, \frac{6}{23}, \frac{1}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{4}{23}, \frac{7}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798}e^3 \otimes e_5$	{123469, 123689, 1245679, 1256789, 13489, 139, 145789, 1579, 2347, 2378, 245, 258, 34678, 367, 4568, 56, 123469, 123689, 1245679, 1256789, 13489, 139, 145789, 1579, 2347, 2378, 245, 258, 34678, 367, 4568, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:202	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{105}e^{12}, \frac{1}{23}\sqrt{357}e^{13}, \frac{3}{23}\sqrt{14}e^{24},$ $\frac{1}{23}\sqrt{105}e^{26} + \frac{1}{23}\sqrt{357}e^{37}$	$(-\frac{2}{23}, \frac{6}{23}, \frac{6}{23}, \frac{1}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{4}{23}, \frac{7}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798}e^3 \otimes e_5$	{123469, 123689, 1245679, 1256789, 13489, 139, 145789, 1579, 2347, 2378, 245, 258, 34678, 367, 4568, 56, 123469, 123689, 1245679, 1256789, 13489, 139, 145789, 1579, 2347, 2378, 245, 258, 34678, 367, 4568, 56}
941:202	$0, 0, 0, 0, 0, -\frac{4}{129}\sqrt{95}e^{12}, \frac{11}{387}\sqrt{190}e^{13}, \frac{1}{387}\sqrt{26030}e^{24},$ $\frac{4}{387}\sqrt{570}e^{26} + \frac{5}{387}\sqrt{1102}e^{37}$	$(-\frac{7}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{46}{129}, \frac{2}{43}, \frac{2}{43}, -\frac{70}{387}, \frac{1}{9})$ $+ \frac{1}{387}\sqrt{47310}e^3 \otimes e_8 + \frac{8}{387}\sqrt{285}e^5 \otimes e_9$	{123469, 126789, 139, 14789, 23457, 258, 3567, 4568, 123469, 126789, 139, 14789, 23457, 258, 3567, 4568}
941:202	$0, 0, 0, 0, 0, \frac{4}{129}\sqrt{95}e^{12}, \frac{11}{387}\sqrt{190}e^{13}, \frac{1}{387}\sqrt{26030}e^{24},$ $\frac{4}{387}\sqrt{570}e^{26} + \frac{5}{387}\sqrt{1102}e^{37}$	$(-\frac{7}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{46}{129}, \frac{2}{43}, \frac{2}{43}, -\frac{70}{387}, \frac{1}{9})$ $+ \frac{1}{387}\sqrt{47310}e^3 \otimes e_8 + \frac{8}{387}\sqrt{285}e^5 \otimes e_9$	{123469, 126789, 139, 14789, 23457, 258, 3567, 4568, 123469, 126789, 139, 14789, 23457, 258, 3567, 4568}
941:202	$0, 0, 0, 0, 0, -\frac{1}{123}\sqrt{9042}e^{12}, \frac{2}{123}\sqrt{2055}e^{13}, \frac{2}{123}\sqrt{411}e^{24},$ $\frac{4}{123}\sqrt{137}e^{26} + \frac{1}{123}\sqrt{1370}e^{37}$	$(\frac{20}{41}, -\frac{4}{41}, -\frac{4}{41}, \frac{29}{123}, -\frac{77}{123}, \frac{16}{41}, \frac{16}{41}, \frac{17}{123}, \frac{12}{41})$ $+ \frac{10}{123}\sqrt{274}e^1 \otimes e_5$	{123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:202	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{9042}e^{12}, \frac{2}{123}\sqrt{2055}e^{13}, \frac{2}{123}\sqrt{411}e^{24},$ $\frac{4}{123}\sqrt{137}e^{26} + \frac{1}{123}\sqrt{1370}e^{37}$	$(\frac{20}{41}, -\frac{4}{41}, -\frac{4}{41}, \frac{29}{123}, -\frac{77}{123}, \frac{16}{41}, \frac{16}{41}, \frac{17}{123}, \frac{12}{41})$ $+ \frac{10}{123}\sqrt{274}e^1 \otimes e_5$	{123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 123489, 1239, 124789, 1279, 13469, 13689, 14679, 16789, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:202	$0, 0, 0, 0, 0, -\frac{2}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{646}e^{13}, \frac{1}{45}\sqrt{782}e^{24},$ $\frac{2}{45}\sqrt{102}e^{26} + \frac{1}{45}\sqrt{646}e^{37}$	$(-\frac{1}{45}, \frac{7}{45}, \frac{7}{45}, -\frac{17}{45}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, -\frac{2}{9}, \frac{13}{45})$ $+ \frac{1}{45}\sqrt{1326}e^3 \otimes e_8$	{1234569, 123469, 1256789, 126789, 1359, 139, 145789, 14789, 23457, 2347, 258, 28, 3567, 367, 4568, 468, 1234569, 123469, 1256789, 126789, 1359, 139, 145789, 14789, 23457, 2347, 258, 28, 3567, 367, 4568, 468}
941:202	$0, 0, 0, 0, 0, \frac{2}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{646}e^{13}, \frac{1}{45}\sqrt{782}e^{24},$ $\frac{2}{45}\sqrt{102}e^{26} + \frac{1}{45}\sqrt{646}e^{37}$	$(-\frac{1}{45}, \frac{7}{45}, \frac{7}{45}, -\frac{17}{45}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, -\frac{2}{9}, \frac{13}{45})$ $+ \frac{1}{45}\sqrt{1326}e^3 \otimes e_8$	{1234569, 123469, 1256789, 126789, 1359, 139, 145789, 14789, 23457, 2347, 258, 28, 3567, 367, 4568, 468, 1234569, 123469, 1256789, 126789, 1359, 139, 145789, 14789, 23457, 2347, 258, 28, 3567, 367, 4568, 468}
941:202	$0, 0, 0, 0, 0, -\frac{7}{23}\sqrt{6}e^{12}, \frac{1}{23}\sqrt{42}e^{13}, \frac{3}{23}\sqrt{14}e^{24},$ $\frac{7}{23}\sqrt{6}e^{26} + \frac{1}{23}\sqrt{42}e^{37}$	$(-\frac{2}{23}, \frac{6}{23}, \frac{6}{23}, \frac{1}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{4}{23}, \frac{7}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798}e^2 \otimes e_5$	{123479, 123789, 1249, 1289, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 3458, 35, 4578, 57, 123479, 123789, 1249, 1289, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 3458, 35, 4578, 57}
941:202	$0, 0, 0, 0, 0, \frac{7}{23}\sqrt{6}e^{12}, \frac{1}{23}\sqrt{42}e^{13}, \frac{3}{23}\sqrt{14}e^{24},$ $\frac{7}{23}\sqrt{6}e^{26} + \frac{1}{23}\sqrt{42}e^{37}$	$(-\frac{2}{23}, \frac{6}{23}, \frac{6}{23}, \frac{1}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{4}{23}, \frac{7}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798}e^2 \otimes e_5$	{123479, 123789, 1249, 1289, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 3458, 35, 4578, 57, 123479, 123789, 1249, 1289, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 3458, 35, 4578, 57}
941:202	$0, 0, 0, 0, 0, -\frac{9}{157}\sqrt{101}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{1}{157}\sqrt{1010}e^{24},$ $\frac{9}{157}\sqrt{101}e^{26} + \frac{1}{157}\sqrt{1515}e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{18382}e^2 \otimes e_4 + \frac{4}{157}\sqrt{606}e^5 \otimes e_8$	{123579, 1259, 1345679, 14569, 2356, 2567, 345, 457, 123579, 1259, 1345679, 14569, 2356, 2567, 345, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:202	$0, 0, 0, 0, 0, \frac{9}{157} \sqrt{101} e^{12}, \frac{1}{157} \sqrt{1515} e^{13}, \frac{1}{157} \sqrt{1010} e^{24},$ $\frac{9}{157} \sqrt{101} e^{26} + \frac{1}{157} \sqrt{1515} e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+\frac{1}{157} \sqrt{18382} e^2 \otimes e_4 + \frac{4}{157} \sqrt{606} e^5 \otimes e_8$	{123579, 1259, 1345679, 14569, 2356, 2567, 345, 457, 123579, 1259, 1345679, 14569, 2356, 2567, 345, 457}
941:202	$0, 0, 0, 0, 0, -\frac{3}{25} e^{12}, \frac{9}{25} e^{13}, \frac{12}{25} e^{24}, \frac{3}{25} e^{26} + \frac{9}{25} e^{37}$	$(\frac{9}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{3}{25}, \frac{3}{25}, \frac{3}{25}, 0, -\frac{3}{25})$ $+\frac{3}{25} \sqrt{22} e^1 \otimes e_8 + \frac{3}{25} \sqrt{22} e^4 \otimes e_9$	{13569, 1369, 15679, 1679, 34578, 3478, 458, 48, 13569, 1369, 15679, 1679, 34578, 3478, 458, 48}
941:202	$0, 0, 0, 0, 0, \frac{3}{25} e^{12}, \frac{9}{25} e^{13}, \frac{12}{25} e^{24}, \frac{3}{25} e^{26} + \frac{9}{25} e^{37}$	$(\frac{9}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{3}{25}, \frac{3}{25}, \frac{3}{25}, 0, -\frac{3}{25})$ $+\frac{3}{25} \sqrt{22} e^1 \otimes e_8 + \frac{3}{25} \sqrt{22} e^4 \otimes e_9$	{13569, 1369, 15679, 1679, 34578, 3478, 458, 48, 13569, 1369, 15679, 1679, 34578, 3478, 458, 48}
941:202	$0, 0, 0, 0, 0, -\frac{1}{533} \sqrt{1155} e^{12}, \frac{1}{533} \sqrt{1535} e^{13}, \frac{1}{533} \sqrt{2390} e^{24},$ $\frac{1}{533} \sqrt{685} e^{26} + \frac{1}{533} \sqrt{2005} e^{37}$	$(\frac{8}{533}, -\frac{9}{533}, -\frac{9}{533}, -\frac{5}{533}, \frac{46}{533}, -\frac{1}{533}, -\frac{1}{533}, -\frac{14}{533}, -\frac{10}{533})$ $+\frac{1}{533} \sqrt{2990} e^3 \otimes e_8 + \frac{2}{533} \sqrt{470} e^4 \otimes e_9$	{1256789, 126789, 1359, 139, 23457, 2347, 4568, 468, 1256789, 126789, 1359, 139, 23457, 2347, 4568, 468}
941:202	$0, 0, 0, 0, 0, \frac{1}{533} \sqrt{1155} e^{12}, \frac{1}{533} \sqrt{1535} e^{13}, \frac{1}{533} \sqrt{2390} e^{24},$ $\frac{1}{533} \sqrt{685} e^{26} + \frac{1}{533} \sqrt{2005} e^{37}$	$(\frac{8}{533}, -\frac{9}{533}, -\frac{9}{533}, -\frac{5}{533}, \frac{46}{533}, -\frac{1}{533}, -\frac{1}{533}, -\frac{14}{533}, -\frac{10}{533})$ $+\frac{1}{533} \sqrt{2990} e^3 \otimes e_8 + \frac{2}{533} \sqrt{470} e^4 \otimes e_9$	{1256789, 126789, 1359, 139, 23457, 2347, 4568, 468, 1256789, 126789, 1359, 139, 23457, 2347, 4568, 468}
941:202	$0, 0, 0, 0, 0, -\frac{14}{447} \sqrt{110} e^{12}, \frac{7}{447} \sqrt{770} e^{13}, \frac{14}{447} \sqrt{165} e^{24},$ $\frac{7}{447} \sqrt{330} e^{26} + \frac{14}{447} \sqrt{165} e^{37}$	$(\frac{154}{447}, -\frac{28}{149}, -\frac{28}{149}, -\frac{7}{447}, \frac{77}{149}, \frac{70}{447}, \frac{70}{447}, -\frac{91}{447}, -\frac{14}{447})$ $+\frac{14}{447} \sqrt{430} e^5 \otimes e_9 + \frac{28}{149} \sqrt{15} e^1 \otimes e_8$	{12349, 12479, 1369, 1679, 235678, 2568, 34578, 458, 12349, 12479, 1369, 1679, 235678, 2568, 34578, 458}
941:202	$0, 0, 0, 0, 0, \frac{14}{447} \sqrt{110} e^{12}, \frac{7}{447} \sqrt{770} e^{13}, \frac{14}{447} \sqrt{165} e^{24},$ $\frac{7}{447} \sqrt{330} e^{26} + \frac{14}{447} \sqrt{165} e^{37}$	$(\frac{154}{447}, -\frac{28}{149}, -\frac{28}{149}, -\frac{7}{447}, \frac{77}{149}, \frac{70}{447}, \frac{70}{447}, -\frac{91}{447}, -\frac{14}{447})$ $+\frac{14}{447} \sqrt{430} e^5 \otimes e_9 + \frac{28}{149} \sqrt{15} e^1 \otimes e_8$	{12349, 12479, 1369, 1679, 235678, 2568, 34578, 458, 12349, 12479, 1369, 1679, 235678, 2568, 34578, 458}
941:202	$0, 0, 0, 0, 0, -\frac{21}{1651} \sqrt{830} e^{12}, \frac{42}{1651} \sqrt{21} e^{13}, \frac{42}{1651} \sqrt{51} e^{24},$ $\frac{252}{1651} \sqrt{6} e^{26} + \frac{21}{1651} \sqrt{118} e^{37}$	$(\frac{84}{1651}, \frac{42}{1651}, \frac{42}{1651}, -\frac{399}{1651}, \frac{609}{1651}, \frac{126}{1651}, \frac{126}{1651}, -\frac{357}{1651}, \frac{168}{1651})$ $+\frac{42}{1651} \sqrt{199} e^1 \otimes e_8 + \frac{42}{1651} \sqrt{233} e^5 \otimes e_9 + \frac{42}{1651} \sqrt{322} e^2 \otimes e_4$	{1239, 1279, 13469, 14679, 1239, 1279, 13469, 14679}
941:202	$0, 0, 0, 0, 0, \frac{21}{1651} \sqrt{830} e^{12}, \frac{42}{1651} \sqrt{21} e^{13}, \frac{42}{1651} \sqrt{51} e^{24},$ $\frac{252}{1651} \sqrt{6} e^{26} + \frac{21}{1651} \sqrt{118} e^{37}$	$(\frac{84}{1651}, \frac{42}{1651}, \frac{42}{1651}, -\frac{399}{1651}, \frac{609}{1651}, \frac{126}{1651}, \frac{126}{1651}, -\frac{357}{1651}, \frac{168}{1651})$ $+\frac{42}{1651} \sqrt{199} e^1 \otimes e_8 + \frac{42}{1651} \sqrt{233} e^5 \otimes e_9 + \frac{42}{1651} \sqrt{322} e^2 \otimes e_4$	{1239, 1279, 13469, 14679, 1239, 1279, 13469, 14679}
941:202	$0, 0, 0, 0, 0, -\frac{1}{89} \sqrt{2090} e^{12}, \frac{1}{89} \sqrt{1870} e^{13}, \frac{12}{89} \sqrt{55} e^{24},$ $\frac{1}{89} \sqrt{2090} e^{26} + \frac{1}{89} \sqrt{1870} e^{37}$	$(\frac{17}{89}, -\frac{1}{89}, -\frac{1}{89}, -\frac{20}{89}, 1, \frac{16}{89}, \frac{16}{89}, -\frac{21}{89}, \frac{15}{89})$ $+\frac{2}{89} \sqrt{4015} e^5 \otimes e_8$	{1234569, 123689, 1245679, 126789, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 34678, 3567, 468, 56, 1234569, 123689, 1245679, 126789, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 34678, 3567, 468, 56}
941:202	$0, 0, 0, 0, 0, \frac{1}{89} \sqrt{2090} e^{12}, \frac{1}{89} \sqrt{1870} e^{13}, \frac{12}{89} \sqrt{55} e^{24},$ $\frac{1}{89} \sqrt{2090} e^{26} + \frac{1}{89} \sqrt{1870} e^{37}$	$(\frac{17}{89}, -\frac{1}{89}, -\frac{1}{89}, -\frac{20}{89}, 1, \frac{16}{89}, \frac{16}{89}, -\frac{21}{89}, \frac{15}{89})$ $+\frac{2}{89} \sqrt{4015} e^5 \otimes e_8$	{1234569, 123689, 1245679, 126789, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 34678, 3567, 468, 56, 1234569, 123689, 1245679, 126789, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 34678, 3567, 468, 56}
941:202	$0, 0, 0, 0, 0, -\frac{8}{265} \sqrt{58} e^{12}, \frac{1}{265} \sqrt{4814} e^{13}, \frac{1}{265} \sqrt{7598} e^{24},$ $\frac{8}{265} \sqrt{58} e^{26} + \frac{1}{265} \sqrt{4814} e^{37}$	$(\frac{3}{265}, \frac{19}{265}, \frac{19}{265}, -\frac{29}{265}, -\frac{58}{265}, \frac{22}{265}, \frac{22}{265}, -\frac{2}{53}, \frac{41}{265})$ $+\frac{1}{265} \sqrt{9454} e^3 \otimes e_8 + \frac{4}{265} \sqrt{290} e^4 \otimes e_5$	{123469, 1256789, 1359, 14789, 2347, 258, 3567, 468, 123469, 1256789, 1359, 14789, 2347, 258, 3567, 468}
941:202	$0, 0, 0, 0, 0, \frac{8}{265} \sqrt{58} e^{12}, \frac{1}{265} \sqrt{4814} e^{13}, \frac{1}{265} \sqrt{7598} e^{24},$ $\frac{8}{265} \sqrt{58} e^{26} + \frac{1}{265} \sqrt{4814} e^{37}$	$(\frac{3}{265}, \frac{19}{265}, \frac{19}{265}, -\frac{29}{265}, -\frac{58}{265}, \frac{22}{265}, \frac{22}{265}, -\frac{2}{53}, \frac{41}{265})$ $+\frac{1}{265} \sqrt{9454} e^3 \otimes e_8 + \frac{4}{265} \sqrt{290} e^4 \otimes e_5$	{123469, 1256789, 1359, 14789, 2347, 258, 3567, 468, 123469, 1256789, 1359, 14789, 2347, 258, 3567, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:204	$0, 0, 0, 0, 0, \frac{4}{69}\sqrt{22}e^{12}, \frac{2}{69}\sqrt{374}e^{13}, \frac{2}{207}\sqrt{3102}e^{45},$ $\frac{22}{207}\sqrt{6}e^{17} + \frac{2}{207}\sqrt{330}e^{26}$	$(-\frac{8}{69}, \frac{11}{69}, \frac{10}{23}, \frac{5}{23}, -\frac{29}{69}, \frac{1}{23}, \frac{22}{69}, -\frac{14}{69}, \frac{14}{69})$ $+\frac{2}{207}\sqrt{7590}e^3 \otimes e_8 + \frac{44}{69}e^4 \otimes e_5$	{124678, 125678, 1478, 1578}
941:204	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{31}e^{12}, \frac{10}{169}\sqrt{17}e^{13}, \frac{60}{169}e^{45},$ $\frac{10}{169}\sqrt{2}e^{17} + \frac{10}{169}\sqrt{57}e^{26}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{5}{13}, -\frac{15}{169}, -\frac{15}{169}, -\frac{5}{169}, \frac{40}{169}, -\frac{30}{169}, \frac{15}{169})$ $+\frac{10}{169}\sqrt{61}e^3 \otimes e_9 + \frac{10}{169}\sqrt{87}e^2 \otimes e_8$	{124579, 1279, 146789, 234567, 2367, 3478}
941:204	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{31}e^{12}, \frac{10}{169}\sqrt{17}e^{13}, \frac{60}{169}e^{45},$ $\frac{10}{169}\sqrt{2}e^{17} + \frac{10}{169}\sqrt{57}e^{26}$	$(-\frac{25}{169}, \frac{20}{169}, \frac{5}{13}, -\frac{15}{169}, -\frac{15}{169}, -\frac{5}{169}, \frac{40}{169}, -\frac{30}{169}, \frac{15}{169})$ $-\frac{10}{169}\sqrt{61}e^3 \otimes e_9 + \frac{10}{169}\sqrt{87}e^2 \otimes e_8$	{124579, 1279, 146789, 234567, 2367, 3478}
941:204	$0, 0, 0, 0, 0, \frac{16}{283}\sqrt{30}e^{12}, \frac{48}{283}\sqrt{7}e^{13}, \frac{16}{283}\sqrt{73}e^{45},$ $\frac{16}{283}\sqrt{66}e^{17} + \frac{48}{283}e^{26}$	$(\frac{60}{283}, \frac{18}{283}, -\frac{24}{283}, \frac{30}{283}, -\frac{98}{283}, \frac{78}{283}, \frac{36}{283}, -\frac{68}{283}, \frac{96}{283})$ $+\frac{128}{283}e^4 \otimes e_5 + \frac{96}{283}\sqrt{5}e^1 \otimes e_8$	{2346789, 2356789, 34789, 35789}
941:204	$0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{3}{136}\sqrt{13}e^{13}, \frac{3}{68}\sqrt{19}e^{45},$ $\frac{3}{136}\sqrt{6}e^{17} + \frac{3}{136}\sqrt{74}e^{26}$	$(\frac{3}{68}, \frac{3}{272}, -\frac{3}{136}, -\frac{3}{16}, \frac{9}{68}, \frac{15}{272}, \frac{3}{136}, -\frac{15}{272}, \frac{9}{136})$ $+\frac{3}{136}\sqrt{87}e^5 \otimes e_9 + \frac{3}{68}\sqrt{11}e^1 \otimes e_3 + \frac{3}{68}\sqrt{29}e^2 \otimes e_8$	{129, 14689, 23456, 358}
941:204	$0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{3}{136}\sqrt{13}e^{13}, \frac{3}{68}\sqrt{19}e^{45},$ $\frac{3}{136}\sqrt{6}e^{17} + \frac{3}{136}\sqrt{74}e^{26}$	$(\frac{3}{68}, \frac{3}{272}, -\frac{3}{136}, -\frac{3}{16}, \frac{9}{68}, \frac{15}{272}, \frac{3}{136}, -\frac{15}{272}, \frac{9}{136})$ $+\frac{3}{136}\sqrt{87}e^5 \otimes e_9 - \frac{3}{68}\sqrt{11}e^1 \otimes e_3 + \frac{3}{68}\sqrt{29}e^2 \otimes e_8$	{129, 14689, 23456, 358}
941:204	$0, 0, 0, 0, 0, \frac{3}{521}\sqrt{8651}e^{12}, \frac{9}{521}\sqrt{211}e^{13}, \frac{1}{521}\sqrt{58447}e^{45},$ $\frac{1}{521}\sqrt{41145}e^{17} + \frac{3}{521}\sqrt{8018}e^{26}$	$(\frac{33}{1042}, \frac{60}{521}, \frac{207}{1042}, \frac{30}{521}, -\frac{181}{521}, \frac{153}{1042}, \frac{120}{521}, -\frac{151}{521}, \frac{273}{1042})$ $+\frac{1}{521}\sqrt{148755}e^2 \otimes e_8 + \frac{211}{521}e^4 \otimes e_5$	{1346789, 1356789, 478, 578}
941:204	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{113}e^{12}, \frac{1}{144}\sqrt{2599}e^{13}, \frac{1}{36}\sqrt{678}e^{45},$ $\frac{1}{144}\sqrt{8814}e^{17} + \frac{1}{144}\sqrt{7910}e^{26}$	$(-\frac{1}{9}, -\frac{1}{288}, \frac{5}{48}, \frac{2}{3}, -\frac{43}{288}, -\frac{11}{96}, -\frac{1}{144}, \frac{149}{288}, -\frac{17}{144})$ $+\frac{1}{144}\sqrt{26555}e^4 \otimes e_9$	{124567, 124678, 1457, 1478, 235789, 2379, 356789, 3679}
941:204	$0, 0, 0, 0, 0, \frac{8}{111}\sqrt{10}e^{12}, \frac{8}{111}\sqrt{23}e^{13}, \frac{8}{111}\sqrt{37}e^{45},$ $\frac{8}{111}\sqrt{5}e^{17} + \frac{8}{111}\sqrt{15}e^{26}$	$(-\frac{20}{111}, \frac{8}{111}, \frac{12}{37}, \frac{28}{111}, -\frac{8}{37}, -\frac{4}{37}, \frac{16}{111}, \frac{4}{111}, -\frac{4}{111})$ $+\frac{16}{111}\sqrt{13}e^4 \otimes e_9 + \frac{8}{111}\sqrt{46}e^3 \otimes e_8$	{124678, 1478, 2379, 3679}
941:204	$0, 0, 0, 0, 0, \frac{64}{5091}\sqrt{51}e^{12}, \frac{8}{1697}\sqrt{1785}e^{13}, \frac{8}{5091}\sqrt{28849}e^{45},$ $\frac{8}{5091}\sqrt{25602}e^{17} + \frac{8}{5091}\sqrt{6477}e^{26}$	$(\frac{128}{1697}, \frac{4}{1697}, -\frac{120}{1697}, \frac{952}{5091}, -\frac{1112}{5091}, \frac{132}{1697}, \frac{8}{1697}, -\frac{160}{5091}, \frac{136}{1697})$ $+\frac{32}{5091}\sqrt{2193}e^4 \otimes e_9 + \frac{8}{5091}\sqrt{41514}e^1 \otimes e_8$	{1239, 1369, 2468, 48}
941:204	$0, 0, 0, 0, 0, \frac{16}{219}\sqrt{30}e^{12}, \frac{16}{73}\sqrt{7}e^{13}, \frac{16}{219}\sqrt{73}e^{45},$ $\frac{16}{219}\sqrt{66}e^{17} + \frac{16}{73}e^{26}$	$(\frac{20}{73}, \frac{6}{73}, -\frac{8}{73}, -\frac{34}{219}, -\frac{34}{219}, \frac{26}{73}, \frac{12}{73}, -\frac{68}{219}, \frac{32}{73})$ $+\frac{32}{73}\sqrt{5}e^1 \otimes e_8$	{12457, 127, 14567, 167, 2346789, 34789}
941:204	$0, 0, 0, 0, 0, \frac{32}{161}\sqrt{3}e^{12}, \frac{48}{161}\sqrt{2}e^{13}, \frac{16}{161}\sqrt{22}e^{45},$ $\frac{32}{161}\sqrt{3}e^{17} + \frac{48}{161}\sqrt{2}e^{26}$	$(\frac{12}{161}, \frac{18}{161}, \frac{24}{161}, \frac{150}{161}, -\frac{106}{161}, \frac{30}{161}, \frac{36}{161}, \frac{44}{161}, \frac{48}{161})$ $+\frac{256}{161}e^4 \otimes e_5$	{123489, 123589, 134689, 135689, 2468, 2568, 48, 58}
941:204	$0, 0, 0, 0, 0, \frac{1}{92}\sqrt{455}e^{12}, \frac{5}{184}\sqrt{13}e^{13}, \frac{1}{138}\sqrt{1495}e^{45},$ $\frac{5}{552}\sqrt{78}e^{17} + \frac{1}{184}\sqrt{2730}e^{26}$	$(-\frac{5}{92}, \frac{17}{368}, \frac{27}{184}, \frac{43}{276}, -\frac{251}{1104}, -\frac{3}{368}, \frac{17}{184}, -\frac{79}{1104}, \frac{7}{184})$ $+\frac{1}{184}\sqrt{3055}e^4 \otimes e_9 + \frac{1}{276}\sqrt{9165}e^2 \otimes e_8$	{12379, 1356789, 24567, 478}
941:204	$0, 0, 0, 0, 0, \frac{2}{277}\sqrt{8651}e^{12}, \frac{6}{277}\sqrt{211}e^{13}, \frac{2}{831}\sqrt{58447}e^{45},$ $\frac{2}{831}\sqrt{41145}e^{17} + \frac{6}{277}\sqrt{8018}e^{26}$	$(\frac{11}{277}, \frac{40}{277}, \frac{69}{277}, -\frac{151}{831}, -\frac{151}{831}, \frac{51}{277}, \frac{80}{277}, -\frac{302}{831}, \frac{91}{277})$ $+\frac{2}{831}\sqrt{148755}e^2 \otimes e_8$	{1234579, 12379, 1346789, 24567, 267, 478}
941:204	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{31}e^{12}, \frac{5}{97}\sqrt{17}e^{13}, \frac{30}{97}e^{45},$ $\frac{5}{97}\sqrt{2}e^{17} + \frac{5}{97}\sqrt{57}e^{26}$	$(-\frac{25}{194}, \frac{10}{97}, \frac{65}{194}, -\frac{20}{97}, \frac{5}{97}, -\frac{5}{97}, \frac{20}{97}, -\frac{15}{97}, \frac{15}{97})$ $+\frac{25}{97}e^5 \otimes e_4 - \frac{5}{97}\sqrt{61}e^3 \otimes e_9 + \frac{5}{97}\sqrt{87}e^2 \otimes e_8$	{146789, 156789, 3478, 3578}
941:204	$0, 0, 0, 0, 0, \frac{5}{97}\sqrt{31}e^{12}, \frac{5}{97}\sqrt{17}e^{13}, \frac{30}{97}e^{45},$ $\frac{5}{97}\sqrt{2}e^{17} + \frac{5}{97}\sqrt{57}e^{26}$	$(-\frac{25}{194}, \frac{10}{97}, \frac{65}{194}, -\frac{20}{97}, \frac{5}{97}, -\frac{5}{97}, \frac{20}{97}, -\frac{15}{97}, \frac{15}{97})$ $+\frac{25}{97}e^5 \otimes e_4 + \frac{5}{97}\sqrt{61}e^3 \otimes e_9 + \frac{5}{97}\sqrt{87}e^2 \otimes e_8$	{146789, 156789, 3478, 3578}
941:204	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{22}e^{12}, \frac{2}{47}\sqrt{374}e^{13}, \frac{2}{141}\sqrt{3102}e^{45},$ $\frac{22}{141}\sqrt{6}e^{17} + \frac{2}{141}\sqrt{330}e^{26}$	$(-\frac{8}{47}, \frac{11}{47}, \frac{30}{47}, -\frac{7}{47}, -\frac{7}{47}, \frac{3}{47}, \frac{22}{47}, -\frac{14}{47}, \frac{14}{47})$ $+\frac{2}{141}\sqrt{7590}e^3 \otimes e_8$	{124678, 1478, 234579, 2379, 345679, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 205	$0, 0, 0, 0, 0, -\frac{1}{14}\sqrt{77}e^{12}, \frac{1}{14}\sqrt{77}e^{13}, \frac{1}{21}\sqrt{231}e^{45},$ $\frac{1}{21}\sqrt{33}e^{26} + \frac{1}{21}\sqrt{33}e^{37}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{3}{28}, -\frac{1}{7}, -\frac{1}{7}, \frac{11}{28}, \frac{11}{28}, -\frac{2}{7}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{561}e^1 \otimes e_8$	{123459, 1239, 124579, 1279, 145679, 1679, 234678, 2468, 48, 123459, 1239, 124579, 1279, 145679, 1679, 234678, 2468, 48}
941: 205	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{77}e^{12}, \frac{1}{14}\sqrt{77}e^{13}, \frac{1}{21}\sqrt{231}e^{45},$ $\frac{1}{21}\sqrt{33}e^{26} + \frac{1}{21}\sqrt{33}e^{37}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{3}{28}, -\frac{1}{7}, -\frac{1}{7}, \frac{11}{28}, \frac{11}{28}, -\frac{2}{7}, \frac{2}{7})$ $+\frac{1}{21}\sqrt{561}e^1 \otimes e_8$	{123459, 1239, 124579, 1279, 145679, 1679, 234678, 2468, 48, 123459, 1239, 124579, 1279, 145679, 1679, 234678, 2468, 48}
941: 205	$0, 0, 0, 0, 0, -\frac{2}{39}\sqrt{77}e^{12}, \frac{2}{39}\sqrt{77}e^{13}, \frac{4}{117}\sqrt{231}e^{45},$ $\frac{4}{117}\sqrt{33}e^{26} + \frac{4}{117}\sqrt{33}e^{37}$	$(\frac{14}{39}, -\frac{1}{13}, -\frac{1}{13}, \frac{7}{39}, -\frac{5}{13}, \frac{11}{39}, \frac{11}{39}, -\frac{8}{39}, \frac{8}{39})$ $+\frac{22}{39}e^4 \otimes e_5 + \frac{4}{117}\sqrt{561}e^1 \otimes e_8$	{234678, 235678, 2468, 2568, 48, 58, 234678, 235678, 2468, 2568, 48, 58}
941: 205	$0, 0, 0, 0, 0, \frac{2}{39}\sqrt{77}e^{12}, \frac{2}{39}\sqrt{77}e^{13}, \frac{4}{117}\sqrt{231}e^{45},$ $\frac{4}{117}\sqrt{33}e^{26} + \frac{4}{117}\sqrt{33}e^{37}$	$(\frac{14}{39}, -\frac{1}{13}, -\frac{1}{13}, \frac{7}{39}, -\frac{5}{13}, \frac{11}{39}, \frac{11}{39}, -\frac{8}{39}, \frac{8}{39})$ $+\frac{22}{39}e^4 \otimes e_5 + \frac{4}{117}\sqrt{561}e^1 \otimes e_8$	{234678, 235678, 2468, 2568, 48, 58, 234678, 235678, 2468, 2568, 48, 58}
941: 205	$0, 0, 0, 0, 0, -\frac{2}{123}\sqrt{1653}e^{12}, \frac{2}{123}\sqrt{285}e^{13}, \frac{2}{123}\sqrt{1558}e^{45},$ $\frac{2}{123}\sqrt{1653}e^{26} + \frac{2}{123}\sqrt{285}e^{37}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{20}{123}, -\frac{20}{123}, \frac{7}{41}, \frac{7}{41}, -\frac{40}{123}, \frac{19}{41})$ $+\frac{4}{123}\sqrt{969}e^2 \otimes e_8$	{1234579, 12379, 12459, 129, 1346789, 14689, 23456, 236, 24567, 267, 348, 478, 1234579, 12379, 12459, 129, 1346789, 14689, 23456, 236, 24567, 267, 348, 478}
941: 205	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{1653}e^{12}, \frac{2}{123}\sqrt{285}e^{13}, \frac{2}{123}\sqrt{1558}e^{45},$ $\frac{2}{123}\sqrt{1653}e^{26} + \frac{2}{123}\sqrt{285}e^{37}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{20}{123}, -\frac{20}{123}, \frac{7}{41}, \frac{7}{41}, -\frac{40}{123}, \frac{19}{41})$ $+\frac{4}{123}\sqrt{969}e^2 \otimes e_8$	{1234579, 12379, 12459, 129, 1346789, 14689, 23456, 236, 24567, 267, 348, 478, 1234579, 12379, 12459, 129, 1346789, 14689, 23456, 236, 24567, 267, 348, 478}
941: 205	$0, 0, 0, 0, 0, -\frac{1}{21}\sqrt{33}e^{12}, \frac{1}{21}\sqrt{33}e^{13}, \frac{1}{21}\sqrt{231}e^{45},$ $\frac{1}{14}\sqrt{77}e^{26} + \frac{1}{14}\sqrt{77}e^{37}$	$(\frac{2}{21}, -\frac{3}{28}, -\frac{3}{28}, \frac{2}{3}, -\frac{1}{7}, -\frac{1}{84}, -\frac{1}{84}, \frac{11}{21}, -\frac{5}{42})$ $+\frac{1}{21}\sqrt{561}e^4 \otimes e_9$	{123589, 1239, 125789, 1279, 156789, 1679, 234567, 234678, 2456, 2468, 45, 48, 123589, 1239, 125789, 1279, 156789, 1679, 234567, 234678, 2456, 2468, 45, 48}
941: 205	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{33}e^{12}, \frac{1}{21}\sqrt{33}e^{13}, \frac{1}{21}\sqrt{231}e^{45},$ $\frac{1}{14}\sqrt{77}e^{26} + \frac{1}{14}\sqrt{77}e^{37}$	$(\frac{2}{21}, -\frac{3}{28}, -\frac{3}{28}, \frac{2}{3}, -\frac{1}{7}, -\frac{1}{84}, -\frac{1}{84}, \frac{11}{21}, -\frac{5}{42})$ $+\frac{1}{21}\sqrt{561}e^4 \otimes e_9$	{123589, 1239, 125789, 1279, 156789, 1679, 234567, 234678, 2456, 2468, 45, 48, 123589, 1239, 125789, 1279, 156789, 1679, 234567, 234678, 2456, 2468, 45, 48}
941: 205	$0, 0, 0, 0, 0, -\frac{1}{29}\sqrt{138}e^{12}, \frac{1}{29}\sqrt{138}e^{13}, \frac{2}{29}\sqrt{46}e^{45},$ $\frac{1}{29}\sqrt{138}e^{26} + \frac{1}{29}\sqrt{138}e^{37}$	$(\frac{3}{29}, \frac{3}{29}, \frac{3}{29}, \frac{27}{29}, -\frac{19}{29}, \frac{6}{29}, \frac{6}{29}, \frac{8}{29}, \frac{9}{29})$ $+\frac{46}{29}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 146789, 156789, 234678, 235678, 2468, 2568, 48, 58, 123489, 123589, 124789, 125789, 146789, 156789, 234678, 235678, 2468, 2568, 48, 58}
941: 205	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{138}e^{12}, \frac{1}{29}\sqrt{138}e^{13}, \frac{2}{29}\sqrt{46}e^{45},$ $\frac{1}{29}\sqrt{138}e^{26} + \frac{1}{29}\sqrt{138}e^{37}$	$(\frac{3}{29}, \frac{3}{29}, \frac{3}{29}, \frac{27}{29}, -\frac{19}{29}, \frac{6}{29}, \frac{6}{29}, \frac{8}{29}, \frac{9}{29})$ $+\frac{46}{29}e^4 \otimes e_5$	{123489, 123589, 124789, 125789, 146789, 156789, 234678, 235678, 2468, 2568, 48, 58, 123489, 123589, 124789, 125789, 146789, 156789, 234678, 235678, 2468, 2568, 48, 58}
941: 205	$0, 0, 0, 0, 0, -\frac{1}{39}\sqrt{110}e^{12}, \frac{1}{39}\sqrt{110}e^{13}, \frac{2}{39}\sqrt{65}e^{45},$ $\frac{1}{39}\sqrt{110}e^{26} + \frac{1}{39}\sqrt{110}e^{37}$	$(\frac{11}{39}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, -\frac{8}{39}, \frac{5}{39}, \frac{5}{39}, \frac{1}{39}, -\frac{1}{39})$ $+\frac{2}{39}\sqrt{85}e^1 \otimes e_8 + \frac{2}{39}\sqrt{85}e^4 \otimes e_9$	{1239, 1279, 1679, 234678, 2468, 48, 1239, 1279, 1679, 234678, 2468, 48}
941: 205	$0, 0, 0, 0, 0, \frac{1}{39}\sqrt{110}e^{12}, \frac{1}{39}\sqrt{110}e^{13}, \frac{2}{39}\sqrt{65}e^{45},$ $\frac{1}{39}\sqrt{110}e^{26} + \frac{1}{39}\sqrt{110}e^{37}$	$(\frac{11}{39}, -\frac{2}{13}, -\frac{2}{13}, \frac{3}{13}, -\frac{8}{39}, \frac{5}{39}, \frac{5}{39}, \frac{1}{39}, -\frac{1}{39})$ $+\frac{2}{39}\sqrt{85}e^1 \otimes e_8 + \frac{2}{39}\sqrt{85}e^4 \otimes e_9$	{1239, 1279, 1679, 234678, 2468, 48, 1239, 1279, 1679, 234678, 2468, 48}
941: 205	$0, 0, 0, 0, 0, -\frac{2}{161}\sqrt{1653}e^{12}, \frac{2}{161}\sqrt{285}e^{13}, \frac{2}{161}\sqrt{1558}e^{45},$ $\frac{2}{161}\sqrt{1653}e^{26} + \frac{2}{161}\sqrt{285}e^{37}$	$(-\frac{15}{161}, \frac{36}{161}, \frac{36}{161}, \frac{18}{161}, -\frac{58}{161}, \frac{3}{161}, \frac{3}{161}, -\frac{40}{161}, \frac{57}{161})$ $+\frac{4}{161}\sqrt{969}e^2 \otimes e_8 + \frac{76}{161}e^4 \otimes e_5$	{1346789, 1356789, 14689, 15689, 348, 358, 478, 578, 1346789, 1356789, 14689, 15689, 348, 358, 478, 578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:205	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1653}e^{12}, \frac{2}{161}\sqrt{285}e^{13}, \frac{2}{161}\sqrt{1558}e^{45},$ $\frac{2}{161}\sqrt{1653}e^{26} + \frac{2}{161}\sqrt{285}e^{37}$	$(-\frac{15}{161}, \frac{36}{161}, \frac{36}{161}, \frac{18}{161}, -\frac{58}{161}, \frac{3}{23}, \frac{3}{23}, -\frac{40}{161}, \frac{57}{161})$ $+\frac{4}{161}\sqrt{969}e^2 \otimes e_8 + \frac{76}{161}e^4 \otimes e_5$	{1346789, 1356789, 14689, 15689, 348, 358, 478, 578, 1346789, 1356789, 14689, 15689, 348, 358, 478, 578}
941:207	$0, 0, 0, 0, 0, \frac{28}{117}\sqrt{5}e^{12}, \frac{56}{117}\sqrt{2}e^{13}, \frac{28}{117}\sqrt{5}e^{14} + \frac{14}{117}\sqrt{19}e^{23},$ $\frac{28}{117}\sqrt{6}e^{17} + \frac{14}{117}\sqrt{5}e^{26}$	$(\frac{7}{39}, \frac{14}{117}, \frac{7}{117}, 0, -\frac{77}{117}, \frac{35}{117}, \frac{28}{117}, \frac{7}{39}, \frac{49}{117})$ $+\frac{14}{117}\sqrt{97}e^1 \otimes e_5$	{12389, 13469, 256, 458}
941:207	$0, 0, 0, 0, 0, \frac{1}{137}\sqrt{761}e^{12}, \frac{2}{137}\sqrt{2967}e^{13}, \frac{1}{137}\sqrt{761}e^{14} + \frac{2}{137}\sqrt{3741}e^{23},$ $\frac{3}{137}\sqrt{989}e^{17} + \frac{12}{137}\sqrt{43}e^{26}$	$(-\frac{1}{137}, \frac{16}{137}, \frac{33}{137}, \frac{50}{137}, -\frac{96}{137}, \frac{15}{137}, \frac{32}{137}, \frac{49}{137}, \frac{31}{137})$ $+\frac{1}{137}\sqrt{30057}e^3 \otimes e_5$	{12369, 13489, 258, 456}
941:207	$0, 0, 0, 0, 0, \frac{2}{747}\sqrt{91203}e^{12}, \frac{2}{747}\sqrt{26967}e^{13},$ $\frac{8}{747}\sqrt{303}e^{14} + \frac{2}{747}\sqrt{28785}e^{23}, \frac{2}{747}\sqrt{44238}e^{17} + \frac{2}{747}\sqrt{80598}e^{26}$	$(\frac{7}{83}, \frac{85}{747}, \frac{107}{747}, \frac{43}{249}, -\frac{521}{747}, \frac{148}{747}, \frac{170}{747}, \frac{64}{249}, \frac{233}{747})$ $+\frac{2}{747}\sqrt{192102}e^2 \otimes e_5$	{12379, 13456789, 2678, 457}
941:207	$0, 0, 0, 0, 0, \frac{7}{491}\sqrt{51}e^{12}, \frac{14}{491}\sqrt{267}e^{13}, \frac{7}{491}\sqrt{771}e^{14} + \frac{14}{491}\sqrt{141}e^{23},$ $\frac{21}{491}\sqrt{109}e^{17} + \frac{84}{491}\sqrt{3}e^{26}$	$(\frac{77}{491}, \frac{28}{491}, -\frac{21}{491}, -\frac{70}{491}, -\frac{168}{491}, \frac{105}{491}, \frac{56}{491}, \frac{7}{491}, \frac{133}{491})$ $+\frac{7}{491}\sqrt{1257}e^3 \otimes e_5 + \frac{84}{491}\sqrt{10}e^1 \otimes e_4$	{12369, 456}
941:207	$0, 0, 0, 0, 0, \frac{2}{105}\sqrt{651}e^{12}, \frac{2}{105}\sqrt{273}e^{13}, \frac{8}{105}\sqrt{21}e^{14} + \frac{2}{105}\sqrt{105}e^{23},$ $\frac{2}{105}\sqrt{210}e^{17} + \frac{2}{15}\sqrt{6}e^{26}$	$(\frac{1}{5}, \frac{1}{15}, -\frac{1}{15}, -\frac{1}{5}, -\frac{1}{3}, \frac{4}{15}, \frac{2}{15}, 0, \frac{1}{3})$ $+\frac{2}{105}\sqrt{966}e^2 \otimes e_5 + \frac{8}{35}\sqrt{7}e^1 \otimes e_4$	{1239, 45}
941:207	$0, 0, 0, 0, 0, \frac{2}{731}\sqrt{142994}e^{14} + \frac{2}{2193}\sqrt{55309}e^{12}, \frac{2}{731}\sqrt{17537}e^{13},$ $\frac{4}{2193}\sqrt{373673}e^{23}, \frac{4}{2193}\sqrt{106571}e^{17} + \frac{16}{2193}\sqrt{6745}e^{26}$	$(-\frac{65}{731}, \frac{283}{2193}, \frac{761}{2193}, \frac{413}{731}, -\frac{1459}{2193}, \frac{88}{2193}, \frac{566}{2193}, \frac{348}{731}, \frac{371}{2193})$ $+\frac{2}{2193}\sqrt{2463274}e^4 \otimes e_5$	{1235789, 134679, 2567, 478}
941:207	$0, 0, 0, 0, 0, \frac{6}{2249}\sqrt{38315}e^{12}, \frac{6}{2249}\sqrt{79831}e^{13},$ $\frac{24}{2249}\sqrt{3395}e^{14} + \frac{6}{2249}\sqrt{5335}e^{23}, \frac{12}{2249}\sqrt{20758}e^{17} + \frac{6}{2249}\sqrt{14938}e^{26}$	$(\frac{735}{2249}, \frac{153}{2249}, -\frac{33}{173}, -\frac{1011}{2249}, \frac{339}{2249}, \frac{888}{2249}, \frac{306}{2249}, -\frac{276}{2249}, \frac{1041}{2249})$ $+\frac{6}{2249}\sqrt{185270}e^1 \otimes e_4$	{1257, 127, 34579, 3479}
941:207	$0, 0, 0, 0, 0, \frac{44}{2441}\sqrt{422}e^{14} + \frac{44}{2441}\sqrt{65}e^{23}, \frac{44}{2441}\sqrt{143}e^{17} + \frac{44}{2441}\sqrt{883}e^{26}$	$(-\frac{286}{2441}, \frac{110}{2441}, \frac{506}{2441}, \frac{902}{2441}, -\frac{858}{2441}, \frac{176}{2441}, \frac{220}{2441}, \frac{616}{2441}, -\frac{66}{2441})$ $+\frac{44}{2441}\sqrt{1065}e^4 \otimes e_9 + \frac{44}{2441}\sqrt{1117}e^2 \otimes e_5$	{123789, 4578}
941:207	$0, 0, 0, 0, 0, \frac{49}{5785}\sqrt{1162}e^{12}, \frac{49}{5785}\sqrt{814}e^{13},$ $\frac{196}{5785}\sqrt{254}e^{14} + \frac{49}{5785}\sqrt{658}e^{23}, \frac{98}{5785}\sqrt{174}e^{17} + \frac{147}{5785}\sqrt{202}e^{26}$	$(-\frac{833}{5785}, -\frac{98}{5785}, \frac{49}{445}, \frac{1372}{5785}, \frac{588}{1157}, -\frac{931}{5785}, -\frac{196}{5785}, \frac{539}{5785}, -\frac{1029}{5785})$ $+\frac{49}{5785}\sqrt{4762}e^5 \otimes e_8 + \frac{49}{5785}\sqrt{5690}e^4 \otimes e_9$	{1234567, 5679}
941:207	$0, 0, 0, 0, 0, \frac{2}{763}\sqrt{90710}e^{14} + \frac{10}{2289}\sqrt{15247}e^{23}, \frac{4}{2289}\sqrt{59830}e^{17} + \frac{4}{2289}\sqrt{195895}e^{26}$	$(-\frac{207}{763}, \frac{67}{2289}, \frac{755}{2289}, \frac{481}{763}, \frac{53}{327}, -\frac{554}{2289}, \frac{134}{2289}, \frac{274}{2289}, -\frac{487}{2289})$ $+\frac{2}{2289}\sqrt{1850870}e^4 \otimes e_9$	{124567, 12467, 35679, 3679}
941:207	$0, 0, 0, 0, 0, \frac{4}{2185}\sqrt{79557}e^{12}, \frac{2}{2185}\sqrt{296321}e^{13},$ $\frac{2}{2185}\sqrt{745991}e^{14} + \frac{2}{2185}\sqrt{852067}e^{23}, \frac{2}{2185}\sqrt{43814}e^{17} + \frac{2}{2185}\sqrt{168338}e^{26}$	$(\frac{187}{2185}, \frac{22}{2185}, -\frac{143}{2185}, -\frac{308}{2185}, 1, \frac{11}{115}, \frac{44}{2185}, -\frac{121}{2185}, \frac{231}{2185})$ $+\frac{2}{2185}\sqrt{2128438}e^5 \otimes e_8$	{12689, 1459, 235, 3468}
941:207	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{30}e^{12}, \frac{1}{18}\sqrt{70}e^{13}, \frac{1}{18}\sqrt{30}e^{14} + \frac{1}{9}\sqrt{5}e^{23},$ $\frac{5}{9}\sqrt{2}e^{17} + \frac{1}{3}\sqrt{5}e^{26}$	$(-\frac{1}{9}, 0, \frac{1}{9}, 1, -\frac{1}{9}, 0, \frac{1}{9}, -\frac{1}{9})$ $+\frac{1}{18}\sqrt{590}e^5 \otimes e_9$	{12567, 14578, 23789, 34679}
941:207	$0, 0, 0, 0, 0, \frac{3}{100}\sqrt{62}e^{12}, \frac{3}{100}\sqrt{202}e^{13}, \frac{3}{100}\sqrt{146}e^{14} + \frac{3}{50}\sqrt{7}e^{23},$ $\frac{3}{50}\sqrt{70}e^{17} + \frac{3}{50}\sqrt{11}e^{26}$	$(\frac{3}{25}, 0, -\frac{3}{25}, -\frac{6}{25}, \frac{12}{25}, \frac{3}{25}, 0, -\frac{3}{25}, \frac{3}{25})$ $+\frac{3}{25}\sqrt{26}e^1 \otimes e_4 + \frac{9}{100}\sqrt{34}e^5 \otimes e_9$	{1369, 2456}
941:207	$0, 0, 0, 0, 0, \frac{90}{3341}\sqrt{94}e^{12}, \frac{45}{3341}\sqrt{1190}e^{13},$ $\frac{180}{3341}\sqrt{19}e^{14} + \frac{45}{3341}\sqrt{778}e^{23}, \frac{90}{3341}\sqrt{407}e^{17} + \frac{90}{3341}\sqrt{134}e^{26}$	$(\frac{765}{3341}, \frac{90}{3341}, -\frac{45}{257}, -\frac{1260}{3341}, \frac{1530}{3341}, \frac{855}{3341}, \frac{180}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+\frac{45}{3341}\sqrt{2262}e^5 \otimes e_8 + \frac{45}{3341}\sqrt{3622}e^1 \otimes e_4$	{1567, 2345679}
941:207	$0, 0, 0, 0, 0, \frac{14}{181}\sqrt{5}e^{12}, \frac{7}{543}\sqrt{435}e^{13}, \frac{7}{543}\sqrt{915}e^{14} + \frac{14}{181}\sqrt{17}e^{23},$ $\frac{7}{543}\sqrt{510}e^{17} + \frac{7}{543}\sqrt{633}e^{26}$	$(-\frac{14}{181}, \frac{7}{181}, \frac{28}{181}, \frac{49}{181}, -\frac{63}{181}, -\frac{7}{181}, \frac{14}{181}, \frac{35}{181}, 0)$ $+\frac{49}{543}\sqrt{30}e^4 \otimes e_9 + \frac{7}{543}\sqrt{1461}e^1 \otimes e_5$	{12389, 458}
941:207	$0, 0, 0, 0, 0, \frac{23}{937}\sqrt{259}e^{12}, \frac{46}{937}\sqrt{73}e^{13}, \frac{23}{937}\sqrt{181}e^{14} + \frac{322}{937}e^{23},$ $\frac{23}{937}\sqrt{329}e^{17} + \frac{184}{937}\sqrt{3}e^{26}$	$(-\frac{161}{937}, \frac{46}{937}, \frac{253}{937}, \frac{460}{937}, -\frac{276}{937}, -\frac{115}{937}, \frac{92}{937}, \frac{299}{937}, -\frac{69}{937})$ $+\frac{23}{937}\sqrt{773}e^3 \otimes e_5 + \frac{92}{937}\sqrt{55}e^4 \otimes e_9$	{1457, 2379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:208	$0, 0, 0, 0, 0, -\frac{10}{197}\sqrt{174e^{12}}, \frac{10}{197}\sqrt{174e^{13}},$ $\frac{10}{197}\sqrt{174e^{14}} + \frac{2}{197}\sqrt{4611e^{23}}, \frac{2}{197}\sqrt{1914e^{26}} + \frac{2}{197}\sqrt{1914e^{37}}$	$(\frac{47}{197}, \frac{16}{197}, \frac{16}{197}, -\frac{15}{197}, -\frac{127}{197}, \frac{63}{197}, \frac{63}{197}, \frac{32}{197}, \frac{79}{197})$ $+ \frac{18}{197}\sqrt{174e^1} \otimes e_5$	{12389, 12479, 16789, 2345678, 256, 458, 12389, 12479, 16789, 2345678, 256, 458}
941:208	$0, 0, 0, 0, 0, \frac{10}{197}\sqrt{174e^{12}}, \frac{10}{197}\sqrt{174e^{13}}, \frac{10}{197}\sqrt{174e^{14}} + \frac{2}{197}\sqrt{4611e^{23}},$ $\frac{2}{197}\sqrt{1914e^{26}} + \frac{2}{197}\sqrt{1914e^{37}}$	$(\frac{47}{197}, \frac{16}{197}, \frac{16}{197}, -\frac{15}{197}, -\frac{127}{197}, \frac{63}{197}, \frac{63}{197}, \frac{32}{197}, \frac{79}{197})$ $+ \frac{18}{197}\sqrt{174e^1} \otimes e_5$	{12389, 12479, 16789, 2345678, 256, 458, 12389, 12479, 16789, 2345678, 256, 458}
941:208	$0, 0, 0, 0, 0, -\frac{4}{45}\sqrt{5e^{12}}, \frac{4}{45}\sqrt{5e^{13}}, \frac{4}{135}\sqrt{318e^{14}} + \frac{4}{45}\sqrt{6e^{23}},$ $\frac{28}{135}\sqrt{3e^{26}} + \frac{28}{135}\sqrt{3e^{37}}$	$(-\frac{8}{45}, \frac{2}{45}, \frac{2}{45}, \frac{4}{15}, \frac{4}{9}, -\frac{2}{15}, -\frac{2}{15}, \frac{4}{45}, -\frac{4}{45})$ $+ \frac{4}{9}\sqrt{2e^4} \otimes e_9 + \frac{8}{135}\sqrt{69e^5} \otimes e_8$	{12456, 2579, 12456, 2579}
941:208	$0, 0, 0, 0, 0, \frac{4}{45}\sqrt{5e^{12}}, \frac{4}{45}\sqrt{5e^{13}}, \frac{4}{135}\sqrt{318e^{14}} + \frac{4}{45}\sqrt{6e^{23}},$ $\frac{28}{135}\sqrt{3e^{26}} + \frac{28}{135}\sqrt{3e^{37}}$	$(-\frac{8}{45}, \frac{2}{45}, \frac{2}{45}, \frac{4}{15}, \frac{4}{9}, -\frac{2}{15}, -\frac{2}{15}, \frac{4}{45}, -\frac{4}{45})$ $+ \frac{4}{9}\sqrt{2e^4} \otimes e_9 + \frac{8}{135}\sqrt{69e^5} \otimes e_8$	{12456, 2579, 12456, 2579}
941:208	$0, 0, 0, 0, 0, -\frac{10}{263}\sqrt{29e^{12}}, \frac{10}{263}\sqrt{29e^{13}}, \frac{40}{263}\sqrt{6e^{14}} + \frac{10}{263}\sqrt{83e^{23}},$ $\frac{10}{263}\sqrt{61e^{26}} + \frac{10}{263}\sqrt{61e^{37}}$	$(-\frac{25}{263}, \frac{20}{263}, \frac{20}{263}, \frac{65}{263}, -\frac{75}{263}, -\frac{5}{263}, -\frac{5}{263}, \frac{40}{263}, \frac{15}{263})$ $+ \frac{10}{263}\sqrt{102e^1} \otimes e_5 + \frac{10}{263}\sqrt{134e^4} \otimes e_9$	{12389, 16789, 2345678, 458, 12389, 16789, 2345678, 458}
941:208	$0, 0, 0, 0, 0, \frac{10}{263}\sqrt{29e^{12}}, \frac{10}{263}\sqrt{29e^{13}}, \frac{40}{263}\sqrt{6e^{14}} + \frac{10}{263}\sqrt{83e^{23}},$ $\frac{10}{263}\sqrt{61e^{26}} + \frac{10}{263}\sqrt{61e^{37}}$	$(-\frac{25}{263}, \frac{20}{263}, \frac{20}{263}, \frac{65}{263}, -\frac{75}{263}, -\frac{5}{263}, -\frac{5}{263}, \frac{40}{263}, \frac{15}{263})$ $+ \frac{10}{263}\sqrt{102e^1} \otimes e_5 + \frac{10}{263}\sqrt{134e^4} \otimes e_9$	{12389, 16789, 2345678, 458, 12389, 16789, 2345678, 458}
941:208	$0, 0, 0, 0, 0, -\frac{1}{94}\sqrt{590e^{12}}, \frac{1}{94}\sqrt{590e^{13}}, \frac{6}{47}\sqrt{59e^{14}} + \frac{3}{47}\sqrt{59e^{23}},$ $\frac{1}{94}\sqrt{1534e^{26}} + \frac{1}{94}\sqrt{1534e^{37}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, \frac{29}{47}, -\frac{30}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{4543e^4} \otimes e_5$	{1235678, 1246, 158, 23489, 2579, 46789, 1235678, 1246, 158, 23489, 2579, 46789}
941:208	$0, 0, 0, 0, 0, \frac{1}{94}\sqrt{590e^{12}}, \frac{1}{94}\sqrt{590e^{13}}, \frac{6}{47}\sqrt{59e^{14}} + \frac{3}{47}\sqrt{59e^{23}},$ $\frac{1}{94}\sqrt{1534e^{26}} + \frac{1}{94}\sqrt{1534e^{37}}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, \frac{29}{47}, -\frac{30}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{4543e^4} \otimes e_5$	{1235678, 1246, 158, 23489, 2579, 46789, 1235678, 1246, 158, 23489, 2579, 46789}
941:208	$0, 0, 0, 0, 0, -\frac{2}{191}\sqrt{5917e^{12}}, \frac{2}{191}\sqrt{5917e^{13}}, \frac{6}{191}\sqrt{194e^{14}} + \frac{2}{191}\sqrt{3395e^{23}},$ $\frac{2}{191}\sqrt{1649e^{26}} + \frac{2}{191}\sqrt{1649e^{37}}$	$(\frac{87}{191}, -\frac{10}{191}, -\frac{10}{191}, -\frac{107}{191}, \frac{33}{191}, \frac{77}{191}, \frac{77}{191}, -\frac{20}{191}, \frac{67}{191})$ $+ \frac{2}{191}\sqrt{15326e^1} \otimes e_4$	{12579, 1279, 2456, 246, 12579, 1279, 2456, 246}
941:208	$0, 0, 0, 0, 0, \frac{2}{191}\sqrt{5917e^{12}}, \frac{2}{191}\sqrt{5917e^{13}}, \frac{6}{191}\sqrt{194e^{14}} + \frac{2}{191}\sqrt{3395e^{23}},$ $\frac{2}{191}\sqrt{1649e^{26}} + \frac{2}{191}\sqrt{1649e^{37}}$	$(\frac{87}{191}, -\frac{10}{191}, -\frac{10}{191}, -\frac{107}{191}, \frac{33}{191}, \frac{77}{191}, \frac{77}{191}, -\frac{20}{191}, \frac{67}{191})$ $+ \frac{2}{191}\sqrt{15326e^1} \otimes e_4$	{12579, 1279, 2456, 246, 12579, 1279, 2456, 246}
941:208	$0, 0, 0, 0, 0, -\frac{20}{49}e^{12}, \frac{20}{49}e^{13}, \frac{20}{49}e^{14} + \frac{10}{49}\sqrt{11e^{23}},$ $\frac{10}{49}\sqrt{15e^{26}} + \frac{10}{49}\sqrt{15e^{37}}$	$(-\frac{3}{49}, \frac{1}{49}, \frac{1}{49}, \frac{5}{49}, 1, -\frac{2}{49}, -\frac{2}{49}, \frac{2}{49}, -\frac{1}{49})$ $+ \frac{20}{49}\sqrt{10e^5} \otimes e_9$	{12389, 12479, 16789, 2345678, 256, 458, 12389, 12479, 16789, 2345678, 256, 458}
941:208	$0, 0, 0, 0, 0, \frac{20}{49}e^{12}, \frac{20}{49}e^{13}, \frac{20}{49}e^{14} + \frac{10}{49}\sqrt{11e^{23}},$ $\frac{10}{49}\sqrt{15e^{26}} + \frac{10}{49}\sqrt{15e^{37}}$	$(-\frac{3}{49}, \frac{1}{49}, \frac{1}{49}, \frac{5}{49}, 1, -\frac{2}{49}, -\frac{2}{49}, \frac{2}{49}, -\frac{1}{49})$ $+ \frac{20}{49}\sqrt{10e^5} \otimes e_9$	{12389, 12479, 16789, 2345678, 256, 458, 12389, 12479, 16789, 2345678, 256, 458}
941:208	$0, 0, 0, 0, 0, -\frac{1}{20}\sqrt{105e^{12}}, \frac{1}{20}\sqrt{105e^{13}}, \frac{3}{10}\sqrt{7e^{14}} + \frac{7}{20}\sqrt{6e^{23}},$ $\frac{1}{20}\sqrt{42e^{26}} + \frac{1}{20}\sqrt{42e^{37}}$	$(\frac{1}{10}, -\frac{1}{40}, -\frac{1}{40}, -\frac{3}{20}, 1, \frac{3}{40}, \frac{3}{40}, -\frac{1}{20}, \frac{1}{20})$ $+ \frac{20}{10}\sqrt{714e^5} \otimes e_8$	{12345679, 12689, 1459, 235, 2478, 567, 12345679, 12689, 1459, 235, 2478, 567}
941:208	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{105e^{12}}, \frac{1}{20}\sqrt{105e^{13}}, \frac{3}{10}\sqrt{7e^{14}} + \frac{7}{20}\sqrt{6e^{23}},$ $\frac{1}{20}\sqrt{42e^{26}} + \frac{1}{20}\sqrt{42e^{37}}$	$(\frac{1}{10}, -\frac{1}{40}, -\frac{1}{40}, -\frac{3}{20}, 1, \frac{3}{40}, \frac{3}{40}, -\frac{1}{20}, \frac{1}{20})$ $+ \frac{20}{10}\sqrt{714e^5} \otimes e_8$	{12345679, 12689, 1459, 235, 2478, 567, 12345679, 12689, 1459, 235, 2478, 567}
941:208	$0, 0, 0, 0, 0, -\frac{2}{97}\sqrt{29e^{12}}, \frac{2}{97}\sqrt{29e^{13}}, \frac{2}{97}\sqrt{1218e^{14}} + \frac{2}{97}\sqrt{899e^{23}},$ $\frac{8}{97}\sqrt{58e^{26}} + \frac{8}{97}\sqrt{58e^{37}}$	$(-\frac{29}{97}, \frac{13}{97}, \frac{13}{97}, \frac{55}{97}, \frac{15}{97}, -\frac{16}{97}, -\frac{16}{97}, \frac{26}{97}, -\frac{3}{97})$ $+ \frac{2}{97}\sqrt{2378e^4} \otimes e_9$	{123589, 12389, 156789, 16789, 2345678, 234678, 458, 48, 123589, 12389, 156789, 16789, 2345678, 234678, 458, 48}
941:208	$0, 0, 0, 0, 0, \frac{2}{97}\sqrt{29e^{12}}, \frac{2}{97}\sqrt{29e^{13}}, \frac{2}{97}\sqrt{1218e^{14}} + \frac{2}{97}\sqrt{899e^{23}},$ $\frac{8}{97}\sqrt{58e^{26}} + \frac{8}{97}\sqrt{58e^{37}}$	$(-\frac{29}{97}, \frac{13}{97}, \frac{13}{97}, \frac{55}{97}, \frac{15}{97}, -\frac{16}{97}, -\frac{16}{97}, \frac{26}{97}, -\frac{3}{97})$ $+ \frac{2}{97}\sqrt{2378e^4} \otimes e_9$	{123589, 12389, 156789, 16789, 2345678, 234678, 458, 48, 123589, 12389, 156789, 16789, 2345678, 234678, 458, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:208	$0, 0, 0, 0, 0, -\frac{8}{745}\sqrt{4695}e^{12}, \frac{4}{745}\sqrt{5947}e^{13},$ $\frac{4}{745}\sqrt{5947}e^{14} + \frac{2}{745}\sqrt{55401}e^{23}, \frac{2}{745}\sqrt{69173}e^{26} + \frac{2}{745}\sqrt{29735}e^{37}$	$(\frac{5}{149}, \frac{107}{745}, \frac{107}{745}, \frac{189}{745}, -\frac{519}{745}, \frac{132}{745}, \frac{132}{745}, \frac{214}{745}, \frac{239}{745})$ $+ \frac{4}{745}\sqrt{49454e^2} \otimes e_5$	{12379, 12489, 13456789, 1569, 2346, 2678, 358, 457, 12379, 12489, 13456789, 1569, 2346, 2678, 358, 457}
941:208	$0, 0, 0, 0, 0, \frac{8}{745}\sqrt{4695}e^{12}, \frac{4}{745}\sqrt{5947}e^{13},$ $\frac{4}{745}\sqrt{5947}e^{14} + \frac{2}{745}\sqrt{55401}e^{23}, \frac{2}{745}\sqrt{69173}e^{26} + \frac{2}{745}\sqrt{29735}e^{37}$	$(\frac{5}{149}, \frac{107}{745}, \frac{107}{745}, \frac{189}{745}, -\frac{519}{745}, \frac{132}{745}, \frac{132}{745}, \frac{214}{745}, \frac{239}{745})$ $+ \frac{4}{745}\sqrt{49454e^2} \otimes e_5$	{12379, 12489, 13456789, 1569, 2346, 2678, 358, 457, 12379, 12489, 13456789, 1569, 2346, 2678, 358, 457}
941:208	$0, 0, 0, 0, 0, -\frac{8}{65}\sqrt{13}e^{12}, \frac{8}{65}\sqrt{13}e^{13}, \frac{4}{65}\sqrt{6}e^{14} + \frac{8}{65}\sqrt{14}e^{23},$ $\frac{4}{13}\sqrt{2}e^{26} + \frac{4}{13}\sqrt{2}e^{37}$	$(\frac{12}{65}, -\frac{4}{65}, -\frac{4}{65}, -\frac{4}{13}, \frac{36}{65}, \frac{8}{65}, \frac{8}{65}, -\frac{8}{65}, \frac{4}{65})$ $+ \frac{4}{65}\sqrt{114e^5} \otimes e_9 + \frac{8}{65}\sqrt{29e^1} \otimes e_4$	{1279, 2456, 1279, 2456}
941:208	$0, 0, 0, 0, 0, \frac{8}{65}\sqrt{13}e^{12}, \frac{8}{65}\sqrt{13}e^{13}, \frac{4}{65}\sqrt{6}e^{14} + \frac{8}{65}\sqrt{14}e^{23},$ $\frac{4}{13}\sqrt{2}e^{26} + \frac{4}{13}\sqrt{2}e^{37}$	$(\frac{12}{65}, -\frac{4}{65}, -\frac{4}{65}, -\frac{4}{13}, \frac{36}{65}, \frac{8}{65}, \frac{8}{65}, -\frac{8}{65}, \frac{4}{65})$ $+ \frac{4}{65}\sqrt{114e^5} \otimes e_9 + \frac{8}{65}\sqrt{29e^1} \otimes e_4$	{1279, 2456, 1279, 2456}
941:208	$0, 0, 0, 0, 0, -\frac{5}{36}\sqrt{7}e^{12}, \frac{5}{36}\sqrt{7}e^{13}, \frac{5}{54}\sqrt{15}e^{14} + \frac{5}{36}\sqrt{6}e^{23},$ $\frac{5}{108}\sqrt{6}e^{26} + \frac{5}{108}\sqrt{6}e^{37}$	$(\frac{5}{18}, -\frac{5}{72}, -\frac{5}{72}, -\frac{5}{12}, \frac{5}{9}, \frac{5}{24}, \frac{5}{24}, -\frac{5}{36}, \frac{5}{36})$ $+ \frac{5}{108}\sqrt{282e^5} \otimes e_8 + \frac{5}{9}\sqrt{2e^1} \otimes e_4$	{12789, 2468, 12789, 2468}
941:208	$0, 0, 0, 0, 0, \frac{5}{36}\sqrt{7}e^{12}, \frac{5}{36}\sqrt{7}e^{13}, \frac{5}{54}\sqrt{15}e^{14} + \frac{5}{36}\sqrt{6}e^{23},$ $\frac{5}{108}\sqrt{6}e^{26} + \frac{5}{108}\sqrt{6}e^{37}$	$(\frac{5}{18}, -\frac{5}{72}, -\frac{5}{72}, -\frac{5}{12}, \frac{5}{9}, \frac{5}{24}, \frac{5}{24}, -\frac{5}{36}, \frac{5}{36})$ $+ \frac{5}{108}\sqrt{282e^5} \otimes e_8 + \frac{5}{9}\sqrt{2e^1} \otimes e_4$	{12789, 2468, 12789, 2468}
941:210	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{1030}e^{12}, \frac{1}{203}\sqrt{1030}e^{13}, \frac{1}{203}\sqrt{8446}e^{14},$ $\frac{2}{203}\sqrt{4738}e^{16} + \frac{2}{203}\sqrt{4738}e^{24} + \frac{2}{203}\sqrt{3811}e^{37}$	$(\frac{5}{203}, -\frac{13}{203}, -\frac{4}{203}, \frac{10}{203}, 1, -\frac{8}{203}, \frac{1}{203}, \frac{15}{203}, -\frac{3}{203})$ $+ \frac{1}{203}\sqrt{69010e^5} \otimes e_9$	{1239, 1279, 3578, 58}
941:210	$0, 0, 0, 0, 0, \frac{1}{295}\sqrt{53286}e^{12}, \frac{1}{295}\sqrt{642}e^{13}, \frac{1}{295}\sqrt{27606}e^{14},$ $\frac{6}{295}\sqrt{107}e^{16} + \frac{4}{295}\sqrt{3531}e^{24} + \frac{3}{295}\sqrt{1070}e^{37}$	$(\frac{2}{295}, \frac{124}{295}, \frac{63}{295}, \frac{4}{295}, -\frac{197}{295}, \frac{126}{295}, \frac{13}{59}, \frac{6}{295}, \frac{128}{295})$ $+ \frac{6}{295}\sqrt{4387e^2} \otimes e_5$	{1356, 1567, 236789, 2689}
941:210	$0, 0, 0, 0, 0, \frac{11}{1869}\sqrt{2562}e^{12}, \frac{11}{1869}\sqrt{3054}e^{13}, \frac{11}{623}\sqrt{494}e^{14},$ $\frac{22}{623}\sqrt{102}e^{16} + \frac{44}{1869}\sqrt{66}e^{24} + \frac{11}{623}\sqrt{370}e^{37}$	$(-\frac{22}{623}, \frac{132}{623}, \frac{55}{623}, -\frac{44}{623}, -\frac{165}{623}, \frac{110}{623}, \frac{33}{623}, -\frac{66}{623}, \frac{88}{623})$ $+ \frac{176}{1869}\sqrt{15e^4} \otimes e_5 + \frac{22}{1869}\sqrt{1626e^3} \otimes e_8$	{1256789, 3567}
941:210	$0, 0, 0, 0, 0, \frac{22}{97}\sqrt{2}e^{12}, \frac{22}{97}\sqrt{2}e^{13}, \frac{44}{97}\sqrt{5}e^{14},$ $\frac{11}{97}\sqrt{15}e^{16} + \frac{11}{97}\sqrt{15}e^{24} + \frac{11}{97}\sqrt{21}e^{37}$	$(-\frac{8}{97}, \frac{28}{97}, \frac{10}{97}, -\frac{16}{97}, 1, \frac{20}{97}, \frac{2}{97}, -\frac{24}{97}, \frac{12}{97})$ $+ \frac{11}{97}\sqrt{161e^5} \otimes e_8$	{13457, 145, 23489, 24789}
941:210	$0, 0, 0, 0, 0, \frac{28}{785}\sqrt{82}e^{12}, \frac{28}{785}\sqrt{35}e^{13}, \frac{28}{785}\sqrt{53}e^{14},$ $\frac{28}{785}\sqrt{58}e^{16} + \frac{28}{157}\sqrt{7}e^{24} + \frac{28}{785}\sqrt{67}e^{37}$	$(-\frac{14}{157}, \frac{182}{785}, \frac{56}{785}, -\frac{28}{157}, \frac{434}{785}, \frac{112}{785}, -\frac{14}{785}, -\frac{42}{157}, \frac{42}{785})$ $+ \frac{28}{785}\sqrt{346e^5} \otimes e_9 - \frac{84}{785}\sqrt{39e^2} \otimes e_8$	{135678, 1568, 2369, 2679}
941:210	$0, 0, 0, 0, 0, \frac{28}{785}\sqrt{82}e^{12}, \frac{28}{785}\sqrt{35}e^{13}, \frac{28}{785}\sqrt{53}e^{14},$ $\frac{28}{785}\sqrt{58}e^{16} + \frac{28}{157}\sqrt{7}e^{24} + \frac{28}{785}\sqrt{67}e^{37}$	$(-\frac{14}{157}, \frac{182}{785}, \frac{56}{785}, -\frac{28}{157}, \frac{434}{785}, \frac{112}{785}, -\frac{14}{785}, -\frac{42}{157}, \frac{42}{785})$ $+ \frac{28}{785}\sqrt{346e^5} \otimes e_9 + \frac{84}{785}\sqrt{39e^2} \otimes e_8$	{135678, 1568, 2369, 2679}
941:210	$0, 0, 0, 0, 0, \frac{18}{2369}\sqrt{3310}e^{12}, \frac{12}{2369}\sqrt{29459}e^{13}, \frac{10}{2369}\sqrt{993}e^{14},$ $\frac{2}{2369}\sqrt{585870}e^{16} + \frac{2}{2369}\sqrt{78447}e^{24} + \frac{48}{2369}\sqrt{1655}e^{37}$	$(\frac{129}{2369}, \frac{553}{2369}, \frac{341}{2369}, \frac{258}{2369}, -\frac{1645}{2369}, \frac{682}{2369}, \frac{470}{2369}, \frac{387}{2369}, \frac{811}{2369})$ $+ \frac{6}{2369}\sqrt{221439e^3} \otimes e_5$	{123689, 1256789, 367, 56}
941:210	$0, 0, 0, 0, 0, \frac{40}{2411}\sqrt{1515}e^{12}, \frac{4}{2411}\sqrt{50601}e^{13}, \frac{4}{2411}\sqrt{178467}e^{14},$ $\frac{4}{2411}\sqrt{53934}e^{16} + \frac{12}{2411}\sqrt{16463}e^{24} + \frac{12}{2411}\sqrt{1111}e^{37}$	$(-\frac{334}{2411}, \frac{1422}{2411}, \frac{544}{2411}, -\frac{668}{2411}, \frac{410}{2411}, \frac{1088}{2411}, \frac{210}{2411}, -\frac{1002}{2411}, \frac{754}{2411})$ $- \frac{12}{2411}\sqrt{67367e^2} \otimes e_8$	{123457, 12347, 124, 1245, 34589, 3489, 45789, 4789}
941:210	$0, 0, 0, 0, 0, \frac{40}{2411}\sqrt{1515}e^{12}, \frac{4}{2411}\sqrt{50601}e^{13}, \frac{4}{2411}\sqrt{178467}e^{14},$ $\frac{4}{2411}\sqrt{53934}e^{16} + \frac{12}{2411}\sqrt{16463}e^{24} + \frac{12}{2411}\sqrt{1111}e^{37}$	$(-\frac{334}{2411}, \frac{1422}{2411}, \frac{544}{2411}, -\frac{668}{2411}, \frac{410}{2411}, \frac{1088}{2411}, \frac{210}{2411}, -\frac{1002}{2411}, \frac{754}{2411})$ $+ \frac{12}{2411}\sqrt{67367e^2} \otimes e_8$	{123457, 12347, 124, 1245, 34589, 3489, 45789, 4789}
941:210	$0, 0, 0, 0, 0, \frac{8}{579}\sqrt{2}e^{12}, \frac{16}{579}\sqrt{146}e^{13}, \frac{8}{579}\sqrt{754}e^{14},$ $\frac{32}{579}\sqrt{13}e^{16} + \frac{16}{579}\sqrt{85}e^{24} + \frac{8}{579}\sqrt{678}e^{37}$	$(-\frac{8}{193}, \frac{136}{579}, \frac{56}{579}, -\frac{16}{193}, -\frac{152}{579}, \frac{112}{579}, \frac{32}{579}, -\frac{24}{193}, \frac{88}{579})$ $+ \frac{32}{579}\sqrt{79e^3} \otimes e_8 + \frac{8}{579}\sqrt{830e^1} \otimes e_5$	{16789, 23567}
941:210	$0, 0, 0, 0, 0, \frac{1}{1153}\sqrt{548490}e^{12}, \frac{1}{1153}\sqrt{212394}e^{13}, \frac{1}{1153}\sqrt{865914}e^{14},$ $\frac{6}{1153}\sqrt{15171}e^{16} + \frac{2}{1153}\sqrt{243903}e^{24} + \frac{3}{1153}\sqrt{778}e^{37}$	$(\frac{182}{1153}, -\frac{8}{1153}, \frac{87}{1153}, \frac{364}{1153}, -\frac{803}{1153}, \frac{174}{1153}, \frac{269}{1153}, \frac{546}{1153}, \frac{356}{1153})$ $+ \frac{3}{1153}\sqrt{63407e^4} \otimes e_5$	{1358, 1578, 23579, 259}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:210	$0, 0, 0, 0, 0, \frac{152}{1093}\sqrt{5}e^{12}, \frac{38}{1093}\sqrt{145}e^{13}, \frac{19}{1093}\sqrt{554}e^{14},$ $\frac{19}{1093}\sqrt{398}e^{16} + \frac{38}{1093}\sqrt{13}e^{24} + \frac{38}{1093}\sqrt{211}e^{37}$	$(-\frac{95}{1093}, \frac{247}{1093}, \frac{76}{1093}, -\frac{190}{1093}, \frac{418}{1093}, \frac{152}{1093}, -\frac{19}{1093}, -\frac{285}{1093}, \frac{57}{1093})$ $+ \frac{19}{1093}\sqrt{610}e^5 \otimes e_9 + \frac{285}{1093}\sqrt{6}e^3 \otimes e_8$	{126789, 3567}
941:210	$0, 0, 0, 0, 0, \frac{1}{233}\sqrt{10434}e^{12}, \frac{1}{233}\sqrt{19758}e^{13}, \frac{1}{233}\sqrt{21534}e^{14},$ $\frac{6}{233}\sqrt{518}e^{16} + \frac{4}{233}\sqrt{222}e^{24} + \frac{111}{233}\sqrt{2}e^{37}$	$(-\frac{26}{233}, \frac{92}{233}, \frac{33}{233}, -\frac{52}{233}, \frac{29}{233}, \frac{66}{233}, \frac{7}{233}, -\frac{78}{233}, \frac{40}{233})$ $+ \frac{6}{233}\sqrt{1258}e^3 \otimes e_8$	{1234569, 123469, 4568, 468}
941:210	$0, 0, 0, 0, 0, \frac{4}{611}\sqrt{12270}e^{12}, \frac{8}{611}\sqrt{510}e^{13}, \frac{4}{611}\sqrt{6270}e^{14},$ $\frac{80}{611}\sqrt{30}e^{16} + \frac{24}{611}\sqrt{235}e^{24} + \frac{36}{611}\sqrt{10}e^{37}$	$(\frac{68}{611}, \frac{36}{611}, \frac{4}{47}, \frac{136}{611}, -\frac{412}{611}, \frac{8}{47}, \frac{120}{611}, \frac{204}{611}, \frac{172}{611})$ $+ \frac{12}{611}\sqrt{3410}e^1 \otimes e_5$	{12349, 12479, 34578, 458}
941:211	$0, 0, 0, 0, 0, -\frac{1}{28}\sqrt{170}e^{12}, \frac{1}{28}\sqrt{238}e^{13}, \frac{1}{7}\sqrt{51}e^{24},$ $\frac{1}{14}\sqrt{51}e^{14} + \frac{1}{28}\sqrt{170}e^{26} + \frac{1}{28}\sqrt{238}e^{37}$	$(\frac{1}{4}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{7}, 1, \frac{5}{28}, \frac{5}{28}, -\frac{3}{14}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391}e^5 \otimes e_8$	{1234569, 1245679, 13489, 14789, 23457, 245, 34678, 468, 1234569, 1245679, 13489, 14789, 23457, 245, 34678, 468}
941:211	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{170}e^{12}, \frac{1}{28}\sqrt{238}e^{13}, \frac{1}{7}\sqrt{51}e^{24},$ $\frac{1}{14}\sqrt{51}e^{14} + \frac{1}{28}\sqrt{170}e^{26} + \frac{1}{28}\sqrt{238}e^{37}$	$(\frac{1}{4}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{7}, 1, \frac{5}{28}, \frac{5}{28}, -\frac{3}{14}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391}e^5 \otimes e_8$	{1234569, 1245679, 13489, 14789, 23457, 245, 34678, 468, 1234569, 1245679, 13489, 14789, 23457, 245, 34678, 468}
941:211	$0, 0, 0, 0, 0, -\frac{6}{221}\sqrt{210}e^{12}, \frac{36}{221}\sqrt{3}e^{13}, \frac{6}{221}\sqrt{206}e^{24},$ $\frac{12}{221}\sqrt{15}e^{14} + \frac{12}{221}\sqrt{29}e^{26} + \frac{6}{221}\sqrt{14}e^{37}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{6}{221}, -\frac{12}{221}, -\frac{6}{17}, \frac{48}{221}, \frac{48}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^1 \otimes e_8 + \frac{6}{221}\sqrt{410}e^2 \otimes e_5$	{12349, 12479, 34578, 458, 12349, 12479, 34578, 458}
941:211	$0, 0, 0, 0, 0, \frac{6}{221}\sqrt{210}e^{12}, \frac{36}{221}\sqrt{3}e^{13}, \frac{6}{221}\sqrt{206}e^{24},$ $\frac{12}{221}\sqrt{15}e^{14} + \frac{12}{221}\sqrt{29}e^{26} + \frac{6}{221}\sqrt{14}e^{37}$	$(\frac{54}{221}, -\frac{6}{221}, -\frac{6}{221}, -\frac{12}{221}, -\frac{6}{17}, \frac{48}{221}, \frac{48}{221}, -\frac{18}{221}, \frac{42}{221})$ $+ \frac{12}{221}\sqrt{94}e^1 \otimes e_8 + \frac{6}{221}\sqrt{410}e^2 \otimes e_5$	{12349, 12479, 34578, 458, 12349, 12479, 34578, 458}
941:211	$0, 0, 0, 0, 0, -\frac{56}{821}\sqrt{13}e^{12}, \frac{28}{821}\sqrt{91}e^{13}, \frac{28}{821}\sqrt{78}e^{24},$ $\frac{28}{821}\sqrt{161}e^{14} + \frac{28}{821}\sqrt{39}e^{26} + \frac{28}{821}\sqrt{78}e^{37}$	$(\frac{182}{821}, -\frac{70}{821}, -\frac{70}{821}, -\frac{140}{821}, \frac{434}{821}, \frac{112}{821}, \frac{112}{821}, -\frac{210}{821}, \frac{42}{821})$ $+ \frac{28}{821}\sqrt{335}e^5 \otimes e_9 + \frac{84}{821}\sqrt{43}e^1 \otimes e_8$	{1369, 1679, 235678, 2568, 1369, 1679, 235678, 2568}
941:211	$0, 0, 0, 0, 0, \frac{56}{821}\sqrt{13}e^{12}, \frac{28}{821}\sqrt{91}e^{13}, \frac{28}{821}\sqrt{78}e^{24},$ $\frac{28}{821}\sqrt{161}e^{14} + \frac{28}{821}\sqrt{39}e^{26} + \frac{28}{821}\sqrt{78}e^{37}$	$(\frac{182}{821}, -\frac{70}{821}, -\frac{70}{821}, -\frac{140}{821}, \frac{434}{821}, \frac{112}{821}, \frac{112}{821}, -\frac{210}{821}, \frac{42}{821})$ $+ \frac{28}{821}\sqrt{335}e^5 \otimes e_9 + \frac{84}{821}\sqrt{43}e^1 \otimes e_8$	{1369, 1679, 235678, 2568, 1369, 1679, 235678, 2568}
941:211	$0, 0, 0, 0, 0, -\frac{2}{31}\sqrt{3}e^{12}, \frac{2}{31}\sqrt{13}e^{13}, \frac{8}{31}e^{24},$ $\frac{2}{31}\sqrt{11}e^{14} + \frac{2}{31}\sqrt{3}e^{26} + \frac{2}{31}\sqrt{13}e^{37}$	$(\frac{4}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{2}{31}, -\frac{3}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+ \frac{2}{31}\sqrt{22}e^3 \otimes e_8 + \frac{2}{31}\sqrt{6}e^2 \otimes e_5$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
941:211	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{3}e^{12}, \frac{2}{31}\sqrt{13}e^{13}, \frac{8}{31}e^{24},$ $\frac{2}{31}\sqrt{11}e^{14} + \frac{2}{31}\sqrt{3}e^{26} + \frac{2}{31}\sqrt{13}e^{37}$	$(\frac{4}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{2}{31}, -\frac{3}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{3}{31}, \frac{2}{31})$ $+ \frac{2}{31}\sqrt{22}e^3 \otimes e_8 + \frac{2}{31}\sqrt{6}e^2 \otimes e_5$	{123469, 145789, 2347, 4568, 123469, 145789, 2347, 4568}
941:211	$0, 0, 0, 0, 0, -\frac{2}{43}\sqrt{255}e^{12}, \frac{2}{43}\sqrt{17}e^{13}, \frac{4}{43}\sqrt{34}e^{24},$ $\frac{2}{43}\sqrt{187}e^{14} + \frac{2}{43}\sqrt{255}e^{26} + \frac{2}{43}\sqrt{17}e^{37}$	$(\frac{2}{43}, \frac{5}{43}, \frac{5}{43}, \frac{10}{43}, -\frac{29}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^2 \otimes e_5$	{12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458, 12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458}
941:211	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{255}e^{12}, \frac{2}{43}\sqrt{17}e^{13}, \frac{4}{43}\sqrt{34}e^{24},$ $\frac{2}{43}\sqrt{187}e^{14} + \frac{2}{43}\sqrt{255}e^{26} + \frac{2}{43}\sqrt{17}e^{37}$	$(\frac{2}{43}, \frac{5}{43}, \frac{5}{43}, \frac{10}{43}, -\frac{29}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^2 \otimes e_5$	{12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458, 12349, 12479, 1345689, 1456789, 23467, 246, 34578, 458}
941:211	$0, 0, 0, 0, 0, -\frac{2}{43}\sqrt{51}e^{12}, \frac{2}{43}\sqrt{323}e^{13}, \frac{4}{43}\sqrt{34}e^{24},$ $\frac{2}{43}\sqrt{187}e^{14} + \frac{2}{43}\sqrt{51}e^{26} + \frac{2}{43}\sqrt{323}e^{37}$	$(\frac{2}{43}, \frac{5}{43}, \frac{5}{43}, \frac{10}{43}, -\frac{29}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^3 \otimes e_5$	{123469, 1245679, 13489, 145789, 2347, 245, 34678, 4568, 123469, 1245679, 13489, 145789, 2347, 245, 34678, 4568}
941:211	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{51}e^{12}, \frac{2}{43}\sqrt{323}e^{13}, \frac{4}{43}\sqrt{34}e^{24},$ $\frac{2}{43}\sqrt{187}e^{14} + \frac{2}{43}\sqrt{51}e^{26} + \frac{2}{43}\sqrt{323}e^{37}$	$(\frac{2}{43}, \frac{5}{43}, \frac{5}{43}, \frac{10}{43}, -\frac{29}{43}, \frac{7}{43}, \frac{7}{43}, \frac{15}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^3 \otimes e_5$	{123469, 1245679, 13489, 145789, 2347, 245, 34678, 4568, 123469, 1245679, 13489, 145789, 2347, 245, 34678, 4568}
941:211	$0, 0, 0, 0, 0, -\frac{1}{85}\sqrt{14}e^{12}, \frac{1}{85}\sqrt{34}e^{13}, \frac{8}{85}\sqrt{15}e^{24},$ $\frac{2}{85}\sqrt{145}e^{14} + \frac{1}{85}\sqrt{330}e^{26} + \frac{1}{85}\sqrt{870}e^{37}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{13}{85}, \frac{8}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{3}{85})$ $+ \frac{12}{85}\sqrt{10}e^3 \otimes e_8 + \frac{4}{85}\sqrt{5}e^5 \otimes e_9$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:211	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{14}e^{12}, \frac{1}{17}\sqrt{34}e^{13}, \frac{8}{85}\sqrt{15}e^{24},$ $\frac{2}{85}\sqrt{145}e^{14} + \frac{1}{85}\sqrt{330}e^{26} + \frac{1}{85}\sqrt{870}e^{37}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{13}{85}, \frac{8}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{3}{85})$ $+ \frac{12}{85}\sqrt{10}e^3 \otimes e_8 + \frac{4}{85}\sqrt{5}e^5 \otimes e_9$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
941:211	$0, 0, 0, 0, 0, -\frac{6}{83}\sqrt{10}e^{12}, \frac{4}{83}\sqrt{55}e^{13}, \frac{10}{83}\sqrt{10}e^{24},$ $\frac{2}{83}\sqrt{155}e^{14} + \frac{6}{83}\sqrt{10}e^{26} + \frac{4}{83}\sqrt{55}e^{37}$	$(\frac{14}{83}, -\frac{5}{83}, -\frac{5}{83}, -\frac{10}{83}, \frac{9}{83}, \frac{9}{83}, \frac{9}{83}, -\frac{15}{83}, \frac{4}{83})$ $+ \frac{2}{83}\sqrt{370}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
941:211	$0, 0, 0, 0, 0, \frac{6}{83}\sqrt{10}e^{12}, \frac{4}{83}\sqrt{55}e^{13}, \frac{10}{83}\sqrt{10}e^{24},$ $\frac{2}{83}\sqrt{155}e^{14} + \frac{6}{83}\sqrt{10}e^{26} + \frac{4}{83}\sqrt{55}e^{37}$	$(\frac{14}{83}, -\frac{5}{83}, -\frac{5}{83}, -\frac{10}{83}, \frac{9}{83}, \frac{9}{83}, \frac{9}{83}, -\frac{15}{83}, \frac{4}{83})$ $+ \frac{2}{83}\sqrt{370}e^3 \otimes e_8$	{1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468, 1234569, 123469, 145789, 14789, 23457, 2347, 4568, 468}
941:211	$0, 0, 0, 0, 0, -\frac{2}{161}\sqrt{2310}e^{12}, \frac{1}{161}\sqrt{330}e^{13}, \frac{18}{161}\sqrt{55}e^{24},$ $\frac{55}{161}\sqrt{6}e^{14} + \frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{2}{161}, \frac{26}{161}, \frac{26}{161}, \frac{52}{161}, -\frac{113}{161}, \frac{24}{161}, \frac{24}{161}, \frac{78}{161}, \frac{50}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567, 12356789, 125689, 13579, 159, 2358, 2578, 356, 567}
941:211	$0, 0, 0, 0, 0, -\frac{2}{161}\sqrt{2310}e^{12}, \frac{1}{161}\sqrt{330}e^{13}, \frac{18}{161}\sqrt{55}e^{24},$ $\frac{55}{161}\sqrt{6}e^{14} + \frac{2}{161}\sqrt{2310}e^{26} + \frac{1}{161}\sqrt{330}e^{37}$	$(-\frac{2}{161}, \frac{26}{161}, \frac{26}{161}, \frac{52}{161}, -\frac{113}{161}, \frac{24}{161}, \frac{24}{161}, \frac{78}{161}, \frac{50}{161})$ $+ \frac{1}{161}\sqrt{45210}e^4 \otimes e_5$	{12356789, 125689, 13579, 159, 2358, 2578, 356, 567, 12356789, 125689, 13579, 159, 2358, 2578, 356, 567}
941:211	$0, 0, 0, 0, 0, -\frac{4}{301}\sqrt{133}e^{12}, \frac{4}{301}\sqrt{251}e^{13}, \frac{4}{301}\sqrt{334}e^{24},$ $\frac{4}{301}\sqrt{134}e^{14} + \frac{4}{301}\sqrt{133}e^{26} + \frac{4}{301}\sqrt{251}e^{37}$	$(\frac{34}{301}, -\frac{8}{301}, -\frac{8}{301}, -\frac{16}{301}, -\frac{32}{301}, \frac{26}{301}, \frac{26}{301}, -\frac{24}{301}, \frac{18}{301})$ $+ \frac{4}{301}\sqrt{434}e^3 \otimes e_8 + \frac{8}{301}\sqrt{29}e^4 \otimes e_5$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
941:211	$0, 0, 0, 0, 0, \frac{4}{301}\sqrt{133}e^{12}, \frac{4}{301}\sqrt{251}e^{13}, \frac{4}{301}\sqrt{334}e^{24},$ $\frac{4}{301}\sqrt{134}e^{14} + \frac{4}{301}\sqrt{133}e^{26} + \frac{4}{301}\sqrt{251}e^{37}$	$(\frac{34}{301}, -\frac{8}{301}, -\frac{8}{301}, -\frac{16}{301}, -\frac{32}{301}, \frac{26}{301}, \frac{26}{301}, -\frac{24}{301}, \frac{18}{301})$ $+ \frac{4}{301}\sqrt{434}e^3 \otimes e_8 + \frac{8}{301}\sqrt{29}e^4 \otimes e_5$	{123469, 14789, 2347, 468, 123469, 14789, 2347, 468}
941:211	$0, 0, 0, 0, 0, -\frac{1}{85}\sqrt{330}e^{12}, \frac{1}{85}\sqrt{870}e^{13}, \frac{8}{85}\sqrt{15}e^{24},$ $\frac{2}{85}\sqrt{145}e^{14} + \frac{1}{17}\sqrt{14}e^{26} + \frac{1}{17}\sqrt{34}e^{37}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{1}{17})$ $+ \frac{12}{85}\sqrt{10}e^3 \otimes e_8 + \frac{4}{85}\sqrt{5}e^1 \otimes e_5$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
941:211	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{330}e^{12}, \frac{1}{85}\sqrt{870}e^{13}, \frac{8}{85}\sqrt{15}e^{24},$ $\frac{2}{85}\sqrt{145}e^{14} + \frac{1}{17}\sqrt{14}e^{26} + \frac{1}{17}\sqrt{34}e^{37}$	$(\frac{3}{17}, -\frac{1}{17}, -\frac{1}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{1}{17})$ $+ \frac{12}{85}\sqrt{10}e^3 \otimes e_8 + \frac{4}{85}\sqrt{5}e^1 \otimes e_5$	{123469, 14789, 23457, 4568, 123469, 14789, 23457, 4568}
941:213	$0, 0, 0, 0, 0, \frac{5}{763}\sqrt{2590}e^{12}, \frac{30}{763}\sqrt{70}e^{13}, \frac{5}{763}\sqrt{4690}e^{24},$ $\frac{5}{763}\sqrt{1414}e^{17} + \frac{5}{763}\sqrt{2226}e^{26} + \frac{10}{763}\sqrt{357}e^{34}$	$(-\frac{5}{109}, \frac{10}{109}, \frac{25}{109}, -\frac{10}{109}, -\frac{35}{109}, \frac{5}{109}, \frac{20}{109}, 0, \frac{15}{109})$ $+ \frac{30}{763}\sqrt{119}e^4 \otimes e_5 + \frac{30}{763}\sqrt{154}e^3 \otimes e_8$	{1359, 258}
941:213	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{969}e^{12}, \frac{2}{571}\sqrt{44897}e^{13}, \frac{2}{571}\sqrt{4845}e^{24},$ $\frac{2}{571}\sqrt{4845}e^{17} + \frac{6}{571}\sqrt{323}e^{26} + \frac{2}{571}\sqrt{50711}e^{34}$	$(-\frac{21}{571}, \frac{127}{571}, \frac{275}{571}, -\frac{42}{571}, -\frac{371}{571}, \frac{106}{571}, \frac{254}{571}, \frac{85}{571}, \frac{233}{571})$ $+ \frac{2}{571}\sqrt{152133}e^3 \otimes e_5$	{12456789, 14579, 23478, 3467}
941:213	$0, 0, 0, 0, 0, \frac{1}{2821}\sqrt{2002}e^{12}, \frac{10}{2821}\sqrt{33}e^{13}, \frac{1}{2821}\sqrt{3982}e^{24},$ $\frac{1}{2821}\sqrt{3790}e^{17} + \frac{1}{403}\sqrt{30}e^{26} + \frac{4}{2821}\sqrt{177}e^{34}$	$(-\frac{11}{2821}, \frac{10}{2821}, \frac{1}{91}, -\frac{22}{2821}, -\frac{23}{2821}, -\frac{1}{2821}, \frac{20}{2821}, -\frac{12}{2821}, \frac{9}{2821})$ $+ \frac{18}{2821}\sqrt{14}e^1 \otimes e_8 + \frac{24}{2821}e^4 \otimes e_5$	{123469, 468}
941:213	$0, 0, 0, 0, 0, \frac{4}{587}\sqrt{705}e^{12}, \frac{2}{587}\sqrt{59690}e^{13}, \frac{2}{587}\sqrt{24205}e^{24},$ $\frac{2}{587}\sqrt{62510}e^{17} + \frac{12}{587}\sqrt{235}e^{26} + \frac{2}{587}\sqrt{38305}e^{34}$	$(\frac{79}{587}, \frac{43}{587}, \frac{7}{587}, \frac{158}{587}, -\frac{391}{587}, \frac{122}{587}, \frac{86}{587}, \frac{201}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^1 \otimes e_5$	{123469, 13489, 245, 4568}
941:213	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{82}e^{12}, \frac{2}{133}\sqrt{39}e^{13}, \frac{1}{133}\sqrt{182}e^{24},$ $\frac{1}{133}\sqrt{174}e^{17} + \frac{3}{133}\sqrt{6}e^{26} + \frac{12}{133}e^{34}$	$(-\frac{3}{133}, \frac{2}{133}, \frac{1}{19}, -\frac{6}{133}, \frac{1}{133}, -\frac{1}{133}, \frac{4}{133}, -\frac{4}{133}, \frac{1}{133})$ $+ \frac{2}{133}\sqrt{6}e^2 \otimes e_5 + \frac{6}{133}\sqrt{6}e^1 \otimes e_8$	{123469, 4568}
941:213	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{874}e^{12}, \frac{6}{35}\sqrt{19}e^{13}, \frac{1}{35}\sqrt{1558}e^{24},$ $\frac{1}{35}\sqrt{817}e^{17} + \frac{1}{35}\sqrt{399}e^{26} + \frac{1}{35}\sqrt{741}e^{34}$	$(-\frac{1}{14}, \frac{2}{35}, \frac{13}{70}, -\frac{1}{7}, 1, -\frac{1}{70}, \frac{4}{35}, -\frac{3}{35}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^5 \otimes e_8$	{1234569, 13489, 245, 468}
941:213	$0, 0, 0, 0, 0, \frac{1}{281}\sqrt{1090}e^{12}, \frac{2}{281}\sqrt{465}e^{13}, \frac{1}{281}\sqrt{2110}e^{24},$ $\frac{1}{281}\sqrt{2110}e^{17} + \frac{5}{281}\sqrt{30}e^{26} + \frac{4}{281}\sqrt{105}e^{34}$	$(-\frac{7}{281}, \frac{2}{281}, \frac{11}{281}, -\frac{14}{281}, \frac{29}{281}, -\frac{5}{281}, \frac{4}{281}, -\frac{12}{281}, -\frac{3}{281})$ $+ \frac{6}{281}\sqrt{70}e^1 \otimes e_8$	{1234569, 123469, 4568, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:213	$0, 0, 0, 0, 0, \frac{40}{1787}\sqrt{322e^{12}}, \frac{40}{1787}\sqrt{411e^{13}}, \frac{80}{1787}\sqrt{106e^{24}},$ $\frac{40}{1787}\sqrt{334e^{17}} + \frac{40}{1787}\sqrt{39e^{26}} + \frac{40}{1787}\sqrt{219e^{34}}$	$(-\frac{220}{1787}, \frac{140}{1787}, \frac{500}{1787}, -\frac{440}{1787}, \frac{860}{1787}, -\frac{80}{1787}, \frac{280}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+\frac{120}{1787}\sqrt{103e^3} \otimes e_8 + \frac{120}{1787}\sqrt{73e^5} \otimes e_9$	{139, 258}
941:213	$0, 0, 0, 0, 0, \frac{2}{443}\sqrt{489e^{12}}, \frac{2}{443}\sqrt{849e^{13}}, \frac{2}{443}\sqrt{939e^{24}},$ $\frac{2}{443}\sqrt{939e^{17}} + \frac{2}{443}\sqrt{339e^{26}} + \frac{2}{443}e^{34}$	$(-\frac{13}{443}, \frac{7}{443}, \frac{27}{443}, -\frac{26}{443}, \frac{21}{443}, -\frac{6}{443}, \frac{14}{443}, -\frac{19}{443}, \frac{1}{443})$ $+\frac{2}{443}\sqrt{69e^3} \otimes e_5 + \frac{4}{443}\sqrt{282e^1} \otimes e_8$	{123469, 4568}
941:213	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{133e^{12}}, \frac{1}{35}\sqrt{57e^{13}}, \frac{1}{35}\sqrt{817e^{24}},$ $\frac{2}{35}\sqrt{19e^{17}} + \frac{1}{35}\sqrt{399e^{26}} + \frac{1}{35}\sqrt{741e^{34}}$	$(\frac{29}{140}, \frac{2}{35}, -\frac{13}{140}, \frac{29}{70}, -\frac{47}{70}, \frac{37}{140}, \frac{4}{35}, \frac{33}{70}, \frac{9}{28})$ $+\frac{3}{35}\sqrt{247e^4} \otimes e_5$	{12469, 1489, 234, 3468}
941:213	$0, 0, 0, 0, 0, \frac{68}{2129}\sqrt{110e^{12}}, \frac{34}{2129}\sqrt{958e^{13}}, \frac{34}{2129}\sqrt{761e^{24}},$ $\frac{34}{2129}\sqrt{734e^{17}} + \frac{612}{2129}e^{26} + \frac{34}{2129}\sqrt{305e^{34}}$	$(-\frac{119}{2129}, \frac{221}{2129}, \frac{561}{2129}, -\frac{238}{2129}, -\frac{697}{2129}, \frac{102}{2129}, \frac{442}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+\frac{34}{2129}\sqrt{915e^1} \otimes e_5 + \frac{68}{2129}\sqrt{249e^3} \otimes e_8$	{123469, 4568}
941:213	$0, 0, 0, 0, 0, \frac{4}{887}\sqrt{385e^{12}}, \frac{4}{887}\sqrt{654e^{13}}, \frac{8}{887}\sqrt{187e^{24}},$ $\frac{4}{887}\sqrt{721e^{17}} + \frac{4}{887}\sqrt{282e^{26}} + \frac{4}{887}\sqrt{609e^{34}}$	$(-\frac{22}{887}, \frac{14}{887}, \frac{50}{887}, -\frac{44}{887}, \frac{14}{887}, -\frac{8}{887}, \frac{28}{887}, -\frac{30}{887}, \frac{6}{887})$ $+\frac{12}{887}\sqrt{97e^1} \otimes e_8 + \frac{36}{887}e^5 \otimes e_9$	{1234569, 468}
941:213	$0, 0, 0, 0, 0, \frac{34}{575}\sqrt{47e^{12}}, \frac{204}{575}e^{13}, \frac{34}{575}\sqrt{83e^{24}},$ $\frac{68}{575}\sqrt{19e^{17}} + \frac{34}{575}\sqrt{141e^{26}} + \frac{34}{575}\sqrt{159e^{34}}$	$(\frac{11}{575}, -\frac{7}{575}, -\frac{1}{23}, \frac{22}{575}, 1, \frac{4}{575}, -\frac{14}{575}, \frac{3}{115}, -\frac{3}{575})$ $+\frac{102}{575}\sqrt{53e^5} \otimes e_9$	{12489, 1469, 234568, 345}
941:214	$0, 0, 0, 0, 0, \frac{2}{681}\sqrt{34310e^{12}}, \frac{2}{681}\sqrt{68255e^{13}}, \frac{2}{681}\sqrt{78110e^{14}},$ $\frac{1}{681}\sqrt{5110e^{17}} + \frac{1}{681}\sqrt{82490e^{26}} + \frac{1}{681}\sqrt{73730e^{45}}$	$(-\frac{188}{681}, \frac{51}{227}, \frac{494}{681}, -\frac{16}{227}, \frac{166}{681}, -\frac{35}{681}, \frac{102}{227}, -\frac{236}{681}, \frac{118}{681})$ $+\frac{1}{681}\sqrt{825630e^3} \otimes e_8$	{12346, 134, 24589, 45689}
941:214	$0, 0, 0, 0, 0, \frac{2}{1303}\sqrt{137085e^{12}}, \frac{1}{1303}\sqrt{351870e^{13}}, \frac{3}{1303}\sqrt{74370e^{14}},$ $\frac{15}{1303}\sqrt{2294e^{17}} + \frac{2}{1303}\sqrt{183705e^{26}} + \frac{2}{1303}\sqrt{60495e^{45}}$	$(-\frac{169}{1303}, \frac{147}{1303}, \frac{463}{1303}, -\frac{239}{1303}, \frac{364}{1303}, -\frac{22}{1303}, \frac{294}{1303}, -\frac{408}{1303}, \frac{125}{1303})$ $+\frac{1}{1303}\sqrt{1284270e^2} \otimes e_8$	{1234579, 136789, 2567, 478}
941:214	$0, 0, 0, 0, 0, \frac{22}{821}\sqrt{879e^{12}}, \frac{11}{821}\sqrt{358e^{13}}, \frac{11}{2463}\sqrt{7086e^{14}},$ $\frac{11}{821}\sqrt{474e^{17}} + \frac{22}{2463}\sqrt{1410e^{26}} + \frac{22}{2463}\sqrt{627e^{45}}$	$(-\frac{121}{821}, \frac{55}{821}, \frac{231}{821}, \frac{55}{821}, -\frac{66}{821}, -\frac{66}{821}, \frac{110}{821}, -\frac{66}{821}, -\frac{11}{821})$ $+\frac{11}{2463}\sqrt{9210e^2} \otimes e_8 + \frac{22}{2463}\sqrt{1158e^4} \otimes e_5$	{2567, 478}
941:214	$0, 0, 0, 0, 0, \frac{124}{4113}\sqrt{93e^{12}}, \frac{124}{1371}\sqrt{14e^{13}}, \frac{620}{4113}\sqrt{15e^{14}},$ $\frac{62}{4113}\sqrt{290e^{17}} + \frac{62}{4113}\sqrt{205e^{26}} + \frac{62}{4113}\sqrt{545e^{45}}$	$(\frac{248}{1371}, -\frac{217}{4113}, -\frac{1178}{4113}, \frac{124}{457}, -\frac{806}{4113}, \frac{527}{4113}, -\frac{434}{4113}, \frac{620}{1371}, \frac{310}{4113})$ $+\frac{62}{4113}\sqrt{1711e^4} \otimes e_5 - \frac{62}{4113}\sqrt{2042e^1} \otimes e_3$	{23468, 2356, 348, 35}
941:214	$0, 0, 0, 0, 0, \frac{4}{2723}\sqrt{194449e^{12}}, \frac{4}{2723}\sqrt{96045e^{13}}, \frac{44}{2723}\sqrt{2022e^{14}},$ $\frac{4}{2723}\sqrt{185687e^{17}} + \frac{4}{2723}\sqrt{21905e^{26}} + \frac{4}{2723}\sqrt{100426e^{45}}$	$(\frac{1154}{2723}, -\frac{194}{2723}, -\frac{1542}{2723}, \frac{20}{2723}, \frac{746}{2723}, \frac{960}{2723}, -\frac{388}{2723}, \frac{1174}{2723}, \frac{766}{2723})$ $+\frac{20}{2723}\sqrt{30667e^1} \otimes e_3$	{12459, 1289, 14569, 1689, 23468, 2356, 348, 35}
941:214	$0, 0, 0, 0, 0, \frac{124}{4113}\sqrt{93e^{12}}, \frac{124}{1371}\sqrt{14e^{13}}, \frac{620}{4113}\sqrt{15e^{14}},$ $\frac{62}{4113}\sqrt{290e^{17}} + \frac{62}{4113}\sqrt{205e^{26}} + \frac{62}{4113}\sqrt{545e^{45}}$	$(\frac{248}{1371}, -\frac{217}{4113}, -\frac{1178}{4113}, \frac{124}{457}, -\frac{806}{4113}, \frac{527}{4113}, -\frac{434}{4113}, \frac{620}{1371}, \frac{310}{4113})$ $+\frac{62}{4113}\sqrt{1711e^4} \otimes e_5 + \frac{62}{4113}\sqrt{2042e^1} \otimes e_3$	{23468, 2356, 348, 35}
941:214	$0, 0, 0, 0, 0, \frac{6}{2633}\sqrt{17014e^{12}}, \frac{6}{2633}\sqrt{36562e^{13}}, \frac{24}{2633}\sqrt{12851e^{14}},$ $\frac{36}{2633}\sqrt{1086e^{17}} + \frac{6}{2633}\sqrt{55205e^{26}} + \frac{6}{2633}\sqrt{47603e^{45}}$	$(-\frac{188}{2633}, \frac{225}{2633}, \frac{638}{2633}, \frac{1760}{2633}, -\frac{1498}{2633}, \frac{37}{2633}, \frac{450}{2633}, \frac{1572}{2633}, \frac{262}{2633})$ $+\frac{78}{2633}\sqrt{2353e^4} \otimes e_5$	{1246, 12568, 14, 158}
941:214	$0, 0, 0, 0, 0, \frac{4}{2723}\sqrt{194449e^{12}}, \frac{4}{2723}\sqrt{96045e^{13}}, \frac{44}{2723}\sqrt{2022e^{14}},$ $\frac{4}{2723}\sqrt{185687e^{17}} + \frac{4}{2723}\sqrt{21905e^{26}} + \frac{4}{2723}\sqrt{100426e^{45}}$	$(\frac{1154}{2723}, -\frac{194}{2723}, -\frac{1542}{2723}, \frac{20}{2723}, \frac{746}{2723}, \frac{960}{2723}, -\frac{388}{2723}, \frac{1174}{2723}, \frac{766}{2723})$ $-\frac{20}{2723}\sqrt{30667e^1} \otimes e_3$	{12459, 1289, 14569, 1689, 23468, 2356, 348, 35}
941:214	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2e^{12}}, \frac{1}{17}\sqrt{26e^{13}}, \frac{6}{17}\sqrt{3e^{14}},$ $\frac{1}{17}\sqrt{15e^{17}} + \frac{1}{17}\sqrt{23e^{26}} + \frac{1}{17}\sqrt{31e^{45}}$	$(-\frac{4}{17}, \frac{2}{17}, \frac{8}{17}, \frac{4}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{4}{17}, 0, 0)$ $+\frac{1}{17}\sqrt{118e^4} \otimes e_5 + \frac{1}{17}\sqrt{131e^3} \otimes e_8$	{12346, 134}
941:214	$0, 0, 0, 0, 0, \frac{44}{653}\sqrt{30e^{12}}, \frac{22}{653}\sqrt{17e^{13}}, \frac{242}{653}e^{14},$ $\frac{22}{653}\sqrt{62e^{17}} + \frac{22}{653}\sqrt{239e^{26}} + \frac{22}{653}\sqrt{2e^{45}}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, \frac{77}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $-\frac{22}{653}\sqrt{217e^3} \otimes e_9 + \frac{44}{653}e^2 \otimes e_8$	{124579, 16789, 23567, 3478}
941:214	$0, 0, 0, 0, 0, \frac{44}{653}\sqrt{30e^{12}}, \frac{22}{653}\sqrt{17e^{13}}, \frac{242}{653}e^{14},$ $\frac{22}{653}\sqrt{62e^{17}} + \frac{22}{653}\sqrt{239e^{26}} + \frac{22}{653}\sqrt{2e^{45}}$	$(-\frac{121}{653}, \frac{77}{653}, \frac{275}{653}, -\frac{44}{653}, \frac{77}{653}, -\frac{44}{653}, \frac{154}{653}, -\frac{165}{653}, \frac{33}{653})$ $+\frac{22}{653}\sqrt{217e^3} \otimes e_9 + \frac{44}{653}e^2 \otimes e_8$	{124579, 16789, 23567, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 215	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{11509e^{12}}, \frac{1}{292}\sqrt{26403e^{13}}, \frac{1}{584}\sqrt{399430e^{24}},$ $\frac{1}{584}\sqrt{180082e^{17}} + \frac{1}{584}\sqrt{111705e^{26}} + \frac{1}{584}\sqrt{111705e^{45}}$	$(\frac{23}{584}, \frac{43}{1168}, \frac{5}{146}, \frac{743}{1168}, -\frac{611}{1168}, \frac{89}{1168}, \frac{43}{584}, \frac{393}{584}, \frac{33}{292})$ $+ \frac{9}{292}\sqrt{2031e^4} \otimes e_5$	{24, 258, 468, 56}
941: 215	$0, 0, 0, 0, 0, \frac{16}{1195}\sqrt{1273e^{12}}, \frac{1}{1195}\sqrt{282606e^{13}}, \frac{2}{1195}\sqrt{257146e^{24}},$ $\frac{2}{1195}\sqrt{47101e^{17}} + \frac{8}{1195}\sqrt{7638e^{26}} + \frac{1}{1195}\sqrt{771438e^{45}}$	$(\frac{148}{1195}, \frac{121}{1195}, \frac{94}{1195}, -\frac{502}{1195}, \frac{892}{1195}, \frac{269}{1195}, \frac{242}{1195}, -\frac{381}{1195}, \frac{78}{239})$ $+ \frac{6}{1195}\sqrt{70015e^5} \otimes e_8$	{13489, 1359, 245, 28}
941: 215	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{82e^{12}}, \frac{1}{101}\sqrt{3198e^{13}}, \frac{1}{101}\sqrt{4510e^{24}},$ $\frac{1}{101}\sqrt{4510e^{17}} + \frac{4}{101}\sqrt{123e^{26}} + \frac{4}{101}\sqrt{123e^{45}}$	$(\frac{23}{101}, -\frac{1}{101}, -\frac{25}{101}, -\frac{17}{101}, \frac{38}{101}, \frac{22}{101}, -\frac{2}{101}, -\frac{18}{101}, \frac{21}{101})$ $+ \frac{1}{101}\sqrt{7134e^1} \otimes e_8$	{1234569, 139, 258, 468}
941: 215	$0, 0, 0, 0, 0, \frac{1}{53}\sqrt{366e^{12}}, \frac{1}{53}\sqrt{318e^{13}}, \frac{1}{53}\sqrt{570e^{24}},$ $\frac{1}{53}\sqrt{273e^{17}} + \frac{1}{53}\sqrt{195e^{26}} + \frac{1}{53}\sqrt{195e^{45}}$	$(-\frac{9}{53}, \frac{3}{53}, \frac{15}{53}, \frac{3}{53}, -\frac{6}{53}, -\frac{6}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{3}{53})$ $+ \frac{1}{53}\sqrt{366e^4} \otimes e_5 + \frac{5}{53}\sqrt{21e^3} \otimes e_8$	{258, 468}
941: 215	$0, 0, 0, 0, 0, \frac{52}{1765}\sqrt{46e^{12}}, \frac{13}{1765}\sqrt{1038e^{13}}, \frac{13}{1765}\sqrt{1966e^{24}},$ $\frac{13}{1765}\sqrt{1582e^{17}} + \frac{52}{1765}\sqrt{51e^{26}} + \frac{52}{1765}\sqrt{51e^{45}}$	$(\frac{247}{1765}, -\frac{13}{353}, -\frac{377}{1765}, \frac{143}{1765}, -\frac{26}{1765}, \frac{182}{1765}, -\frac{26}{353}, \frac{78}{1765}, \frac{117}{1765})$ $+ \frac{13}{1765}\sqrt{2094e^1} \otimes e_8 + \frac{312}{1765}\sqrt{2e^4} \otimes e_5$	{258, 468}
941: 215	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{11590e^{12}}, \frac{1}{146}\sqrt{13110e^{13}}, \frac{2}{73}\sqrt{1045e^{24}},$ $\frac{1}{73}\sqrt{2185e^{17}} + \frac{19}{146}\sqrt{15e^{26}} + \frac{19}{146}\sqrt{15e^{45}}$	$(-\frac{17}{73}, \frac{43}{292}, \frac{77}{146}, -\frac{79}{292}, \frac{97}{292}, -\frac{25}{292}, \frac{43}{146}, -\frac{9}{73}, \frac{9}{146})$ $+ \frac{3}{73}\sqrt{665e^3} \otimes e_8$	{1234569, 139, 258, 468}
941: 215	$0, 0, 0, 0, 0, \frac{60}{2857}\sqrt{203e^{12}}, \frac{60}{2857}\sqrt{43e^{13}}, \frac{240}{2857}\sqrt{29e^{24}},$ $\frac{60}{2857}\sqrt{435e^{17}} + \frac{60}{2857}\sqrt{305e^{26}} + \frac{120}{2857}\sqrt{87e^{45}}$	$(\frac{870}{2857}, -\frac{30}{2857}, -\frac{930}{2857}, -\frac{480}{2857}, \frac{1290}{2857}, \frac{840}{2857}, -\frac{60}{2857}, -\frac{510}{2857}, \frac{810}{2857})$ $- \frac{60}{2857}\sqrt{1219e^1} \otimes e_3 + \frac{60}{2857}\sqrt{1306e^5} \otimes e_8$	{12457, 1278, 34789, 3579}
941: 215	$0, 0, 0, 0, 0, \frac{31}{1500}\sqrt{10e^{12}}, \frac{31}{1500}\sqrt{6e^{13}}, \frac{341}{1500}\sqrt{6e^{24}},$ $\frac{31}{1500}\sqrt{734e^{17}} + \frac{31}{1500}\sqrt{283e^{26}} + \frac{31}{1500}\sqrt{283e^{45}}$	$(\frac{403}{1500}, -\frac{31}{600}, -\frac{93}{250}, \frac{403}{1000}, -\frac{713}{3000}, \frac{217}{1000}, -\frac{31}{300}, \frac{527}{1500}, \frac{62}{375})$ $+ \frac{31}{750}\sqrt{331e^4} \otimes e_5 + \frac{31}{750}\sqrt{337e^1} \otimes e_3$	{1247, 12578, 14678, 1567}
941: 215	$0, 0, 0, 0, 0, \frac{60}{2857}\sqrt{203e^{12}}, \frac{60}{2857}\sqrt{43e^{13}}, \frac{240}{2857}\sqrt{29e^{24}},$ $\frac{60}{2857}\sqrt{435e^{17}} + \frac{60}{2857}\sqrt{305e^{26}} + \frac{120}{2857}\sqrt{87e^{45}}$	$(\frac{870}{2857}, -\frac{30}{2857}, -\frac{930}{2857}, -\frac{480}{2857}, \frac{1290}{2857}, \frac{840}{2857}, -\frac{60}{2857}, -\frac{510}{2857}, \frac{810}{2857})$ $+ \frac{60}{2857}\sqrt{1219e^1} \otimes e_3 + \frac{60}{2857}\sqrt{1306e^5} \otimes e_8$	{12457, 1278, 34789, 3579}
941: 215	$0, 0, 0, 0, 0, \frac{31}{1500}\sqrt{10e^{12}}, \frac{31}{1500}\sqrt{6e^{13}}, \frac{341}{1500}\sqrt{6e^{24}},$ $\frac{31}{1500}\sqrt{734e^{17}} + \frac{31}{1500}\sqrt{283e^{26}} + \frac{31}{1500}\sqrt{283e^{45}}$	$(\frac{403}{1500}, -\frac{31}{600}, -\frac{93}{250}, \frac{403}{1000}, -\frac{713}{3000}, \frac{217}{1000}, -\frac{31}{300}, \frac{527}{1500}, \frac{62}{375})$ $+ \frac{31}{750}\sqrt{331e^4} \otimes e_5 - \frac{31}{750}\sqrt{337e^1} \otimes e_3$	{1247, 12578, 14678, 1567}
941: 216	$0, 0, 0, 0, 0, -\frac{5}{203}\sqrt{251e^{12}}, \frac{5}{203}\sqrt{251e^{13}}, \frac{1}{203}\sqrt{42670e^{14}},$ $\frac{1}{203}\sqrt{7781e^{26}} + \frac{1}{203}\sqrt{7781e^{37}} + \frac{1}{203}\sqrt{1506e^{45}}$	$(-\frac{25}{203}, \frac{32}{203}, \frac{32}{203}, \frac{5}{7}, -\frac{106}{203}, \frac{1}{29}, \frac{1}{29}, \frac{120}{203}, \frac{39}{203})$ $+ \frac{4}{203}\sqrt{5271e^4} \otimes e_5$	{123467, 1235678, 1246, 12568, 14, 158, 123467, 1235678, 1246, 12568, 14, 158}
941: 216	$0, 0, 0, 0, 0, -\frac{5}{203}\sqrt{251e^{12}}, \frac{5}{203}\sqrt{251e^{13}}, \frac{1}{203}\sqrt{42670e^{14}},$ $\frac{1}{203}\sqrt{7781e^{26}} + \frac{1}{203}\sqrt{7781e^{37}} + \frac{1}{203}\sqrt{1506e^{45}}$	$(-\frac{25}{203}, \frac{32}{203}, \frac{32}{203}, \frac{5}{7}, -\frac{106}{203}, \frac{1}{29}, \frac{1}{29}, \frac{120}{203}, \frac{39}{203})$ $+ \frac{4}{203}\sqrt{5271e^4} \otimes e_5$	{123467, 1235678, 1246, 12568, 14, 158, 123467, 1235678, 1246, 12568, 14, 158}
941: 216	$0, 0, 0, 0, 0, -\frac{2}{415}\sqrt{15235e^{12}}, \frac{1}{415}\sqrt{37118e^{13}}, \frac{4}{415}\sqrt{5263e^{14}},$ $\frac{13}{415}\sqrt{554e^{26}} + \frac{4}{415}\sqrt{277e^{37}} + \frac{2}{415}\sqrt{11634e^{45}}$	$(-\frac{134}{415}, \frac{136}{415}, \frac{136}{415}, -\frac{7}{415}, \frac{29}{83}, \frac{2}{415}, \frac{2}{415}, -\frac{141}{415}, \frac{138}{415})$ $+ \frac{2}{415}\sqrt{49029e^2} \otimes e_8$	{1234579, 12459, 136789, 1689, 2356, 2567, 348, 478, 1234579, 12459, 136789, 1689, 2356, 2567, 348, 478}
941: 216	$0, 0, 0, 0, 0, \frac{2}{415}\sqrt{15235e^{12}}, \frac{1}{415}\sqrt{37118e^{13}}, \frac{4}{415}\sqrt{5263e^{14}},$ $\frac{13}{415}\sqrt{554e^{26}} + \frac{4}{415}\sqrt{277e^{37}} + \frac{2}{415}\sqrt{11634e^{45}}$	$(-\frac{134}{415}, \frac{136}{415}, \frac{136}{415}, -\frac{7}{415}, \frac{29}{83}, \frac{2}{415}, \frac{2}{415}, -\frac{141}{415}, \frac{138}{415})$ $+ \frac{2}{415}\sqrt{49029e^2} \otimes e_8$	{1234579, 12459, 136789, 1689, 2356, 2567, 348, 478, 1234579, 12459, 136789, 1689, 2356, 2567, 348, 478}
941: 218	$0, 0, 0, 0, 0, \frac{3}{253}\sqrt{237e^{12}}, \frac{27}{253}\sqrt{7e^{13}}, \frac{3}{253}\sqrt{1698e^{24}},$ $\frac{3}{253}\sqrt{1038e^{16}} + \frac{18}{253}\sqrt{2e^{37}} + \frac{3}{253}\sqrt{777e^{45}}$	$(\frac{63}{253}, -\frac{81}{253}, -\frac{9}{253}, \frac{63}{253}, -\frac{18}{253}, -\frac{18}{253}, \frac{54}{253}, -\frac{18}{253}, \frac{45}{253})$ $+ \frac{21}{253}\sqrt{51e^1} \otimes e_8 + \frac{3}{253}\sqrt{1578e^4} \otimes e_5$	{3478, 48}
941: 218	$0, 0, 0, 0, 0, \frac{4}{295}\sqrt{913e^{12}}, \frac{1}{295}\sqrt{24734e^{13}}, \frac{1}{295}\sqrt{24734e^{24}},$ $\frac{8}{295}\sqrt{166e^{16}} + \frac{1}{295}\sqrt{23406e^{37}} + \frac{8}{295}\sqrt{166e^{45}}$	$(\frac{37}{295}, -\frac{27}{295}, \frac{1}{59}, -\frac{51}{295}, \frac{98}{295}, \frac{2}{59}, \frac{42}{295}, -\frac{78}{295}, \frac{47}{295})$ $+ \frac{3}{295}\sqrt{4814e^3} \otimes e_8$	{1234569, 126789, 3567, 468}
941: 218	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{218e^{12}}, \frac{2}{177}\sqrt{1526e^{13}}, \frac{4}{59}\sqrt{218e^{24}},$ $\frac{4}{177}\sqrt{218e^{16}} + \frac{2}{177}\sqrt{1635e^{37}} + \frac{2}{177}\sqrt{2289e^{45}}$	$(\frac{28}{177}, -\frac{22}{177}, \frac{1}{59}, \frac{42}{59}, -\frac{92}{177}, \frac{2}{59}, \frac{31}{177}, \frac{104}{177}, \frac{34}{177})$ $+ \frac{2}{177}\sqrt{15805e^4} \otimes e_5$	{2347, 23578, 24, 258}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:218	$0, 0, 0, 0, 0, \frac{92}{8365}\sqrt{278}e^{12}, \frac{23}{8365}\sqrt{6366}e^{13}, \frac{23}{8365}\sqrt{8222}e^{24},$ $\frac{368}{8365}\sqrt{10}e^{16} + \frac{23}{8365}\sqrt{6046}e^{37} + \frac{92}{8365}\sqrt{218}e^{45}$	$(\frac{943}{8365}, -\frac{253}{1673}, -\frac{23}{1195}, \frac{115}{1673}, \frac{46}{8365}, -\frac{46}{1195}, \frac{782}{8365}, -\frac{138}{1673}, \frac{621}{8365})$ $+\frac{23}{8365}\sqrt{10846}e^3 \otimes e_8 + \frac{92}{8365}\sqrt{290}e^4 \otimes e_5$	{3567, 468}
941:219	$0, 0, 0, 0, 0, -\frac{20}{387}\sqrt{57}e^{12}, \frac{13}{387}\sqrt{190}e^{13}, \frac{1}{387}\sqrt{44270}e^{24},$ $\frac{8}{387}\sqrt{285}e^{26} + \frac{1}{387}\sqrt{36670}e^{37} + \frac{8}{387}\sqrt{285}e^{45}$	$(-\frac{7}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{46}{129}, \frac{2}{43}, \frac{2}{43}, -\frac{70}{387}, \frac{1}{9})$ $+\frac{5}{387}\sqrt{2622}e^3 \otimes e_8$	{1234569, 126789, 139, 145789, 2347, 258, 3567, 468, 1234569, 126789, 139, 145789, 2347, 258, 3567, 468}
941:219	$0, 0, 0, 0, 0, \frac{20}{387}\sqrt{57}e^{12}, \frac{13}{387}\sqrt{190}e^{13}, \frac{1}{387}\sqrt{44270}e^{24},$ $\frac{8}{387}\sqrt{285}e^{26} + \frac{1}{387}\sqrt{36670}e^{37} + \frac{8}{387}\sqrt{285}e^{45}$	$(-\frac{7}{387}, \frac{25}{387}, \frac{25}{387}, -\frac{95}{387}, \frac{46}{129}, \frac{2}{43}, \frac{2}{43}, -\frac{70}{387}, \frac{1}{9})$ $+\frac{5}{387}\sqrt{2622}e^3 \otimes e_8$	{1234569, 126789, 139, 145789, 2347, 258, 3567, 468, 1234569, 126789, 139, 145789, 2347, 258, 3567, 468}
941:219	$0, 0, 0, 0, 0, -\frac{16}{2269}\sqrt{5}e^{12}, \frac{1}{2269}\sqrt{1502}e^{13}, \frac{1}{2269}\sqrt{2622}e^{24},$ $\frac{32}{2269}e^{26} + \frac{1}{2269}\sqrt{1758}e^{37} + \frac{32}{2269}e^{45}$	$(\frac{31}{2269}, -\frac{17}{2269}, -\frac{17}{2269}, -\frac{1}{2269}, -\frac{2}{2269}, \frac{14}{2269}, \frac{14}{2269}, -\frac{18}{2269}, -\frac{3}{2269})$ $+\frac{1}{2269}\sqrt{2942}e^3 \otimes e_8 + \frac{4}{2269}\sqrt{82}e^4 \otimes e_5$	{2347, 258, 3567, 468, 2347, 258, 3567, 468}
941:219	$0, 0, 0, 0, 0, \frac{16}{2269}\sqrt{5}e^{12}, \frac{1}{2269}\sqrt{1502}e^{13}, \frac{1}{2269}\sqrt{2622}e^{24},$ $\frac{32}{2269}e^{26} + \frac{1}{2269}\sqrt{1758}e^{37} + \frac{32}{2269}e^{45}$	$(\frac{31}{2269}, -\frac{17}{2269}, -\frac{17}{2269}, -\frac{1}{2269}, -\frac{2}{2269}, \frac{14}{2269}, \frac{14}{2269}, -\frac{18}{2269}, -\frac{3}{2269})$ $+\frac{1}{2269}\sqrt{2942}e^3 \otimes e_8 + \frac{4}{2269}\sqrt{82}e^4 \otimes e_5$	{2347, 258, 3567, 468, 2347, 258, 3567, 468}
941:219	$0, 0, 0, 0, 0, -\frac{6}{785}\sqrt{5035}e^{12}, \frac{6}{785}\sqrt{4081}e^{13}, \frac{12}{785}\sqrt{4558}e^{24},$ $\frac{12}{785}\sqrt{1007}e^{26} + \frac{24}{785}\sqrt{318}e^{37} + \frac{12}{785}\sqrt{1007}e^{45}$	$(\frac{154}{785}, -\frac{37}{785}, -\frac{37}{785}, \frac{517}{785}, -\frac{437}{785}, \frac{117}{785}, \frac{117}{785}, \frac{96}{157}, \frac{16}{157})$ $+\frac{6}{785}\sqrt{34397}e^4 \otimes e_5$	{2347, 23578, 24, 258, 34678, 3567, 468, 56, 2347, 23578, 24, 258, 34678, 3567, 468, 56}
941:219	$0, 0, 0, 0, 0, \frac{6}{785}\sqrt{5035}e^{12}, \frac{6}{785}\sqrt{4081}e^{13}, \frac{12}{785}\sqrt{4558}e^{24},$ $\frac{12}{785}\sqrt{1007}e^{26} + \frac{24}{785}\sqrt{318}e^{37} + \frac{12}{785}\sqrt{1007}e^{45}$	$(\frac{154}{785}, -\frac{37}{785}, -\frac{37}{785}, \frac{517}{785}, -\frac{437}{785}, \frac{117}{785}, \frac{117}{785}, \frac{96}{157}, \frac{16}{157})$ $+\frac{6}{785}\sqrt{34397}e^4 \otimes e_5$	{2347, 23578, 24, 258, 34678, 3567, 468, 56, 2347, 23578, 24, 258, 34678, 3567, 468, 56}
941:219	$0, 0, 0, 0, 0, -\frac{11}{797}\sqrt{854}e^{12}, \frac{1}{797}\sqrt{111874}e^{13}, \frac{84}{797}\sqrt{61}e^{24},$ $\frac{1}{797}\sqrt{195566}e^{26} + \frac{1}{797}\sqrt{19642}e^{37} + \frac{12}{797}\sqrt{2562}e^{45}$	$(\frac{131}{797}, \frac{59}{797}, \frac{59}{797}, -\frac{332}{797}, \frac{581}{797}, \frac{190}{797}, \frac{190}{797}, -\frac{273}{797}, \frac{249}{797})$ $+\frac{2}{797}\sqrt{282247}e^5 \otimes e_8$	{13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28}
941:219	$0, 0, 0, 0, 0, \frac{11}{797}\sqrt{854}e^{12}, \frac{1}{797}\sqrt{111874}e^{13}, \frac{84}{797}\sqrt{61}e^{24},$ $\frac{1}{797}\sqrt{195566}e^{26} + \frac{1}{797}\sqrt{19642}e^{37} + \frac{12}{797}\sqrt{2562}e^{45}$	$(\frac{131}{797}, \frac{59}{797}, \frac{59}{797}, -\frac{332}{797}, \frac{581}{797}, \frac{190}{797}, \frac{190}{797}, -\frac{273}{797}, \frac{249}{797})$ $+\frac{2}{797}\sqrt{282247}e^5 \otimes e_8$	{13489, 1359, 14789, 1579, 23457, 2378, 245, 28, 13489, 1359, 14789, 1579, 23457, 2378, 245, 28}
941:221	$0, 0, 0, 0, 0, \frac{26}{1353}\sqrt{411}e^{12}, \frac{91}{1353}\sqrt{30}e^{13}, \frac{26}{451}\sqrt{55}e^{14} + \frac{26}{451}\sqrt{35}e^{25},$ $\frac{26}{1353}\sqrt{273}e^{17} + \frac{13}{451}\sqrt{70}e^{26}$	$(-\frac{338}{1353}, \frac{104}{1353}, \frac{182}{451}, \frac{377}{1353}, -\frac{65}{1353}, -\frac{78}{451}, \frac{208}{1353}, \frac{13}{451}, -\frac{130}{1353})$ $+\frac{26}{1353}\sqrt{843}e^4 \otimes e_9 + \frac{26}{1353}\sqrt{969}e^3 \otimes e_8$	{23579, 3679}
941:221	$0, 0, 0, 0, 0, \frac{26}{977}\sqrt{290}e^{12}, \frac{52}{977}\sqrt{11}e^{13}, \frac{130}{977}e^{14} + \frac{26}{977}\sqrt{219}e^{25},$ $\frac{260}{977}e^{17} + \frac{312}{977}\sqrt{3}e^{26}$	$(-\frac{169}{977}, \frac{117}{977}, \frac{403}{977}, \frac{65}{977}, -\frac{221}{977}, -\frac{52}{977}, \frac{234}{977}, -\frac{104}{977}, \frac{65}{977})$ $+\frac{26}{977}\sqrt{357}e^3 \otimes e_9 + \frac{26}{977}\sqrt{530}e^2 \otimes e_5$	{12479, 145679, 2367, 357}
941:221	$0, 0, 0, 0, 0, \frac{26}{977}\sqrt{290}e^{12}, \frac{52}{977}\sqrt{11}e^{13}, \frac{130}{977}e^{14} + \frac{26}{977}\sqrt{219}e^{25},$ $\frac{260}{977}e^{17} + \frac{312}{977}\sqrt{3}e^{26}$	$(-\frac{169}{977}, \frac{117}{977}, \frac{403}{977}, \frac{65}{977}, -\frac{221}{977}, -\frac{52}{977}, \frac{234}{977}, -\frac{104}{977}, \frac{65}{977})$ $-\frac{26}{977}\sqrt{357}e^3 \otimes e_9 + \frac{26}{977}\sqrt{530}e^2 \otimes e_5$	{12479, 145679, 2367, 357}
941:221	$0, 0, 0, 0, 0, \frac{10}{43}\sqrt{7}e^{12}, \frac{14}{43}\sqrt{3}e^{13}, \frac{10}{43}\sqrt{7}e^{14} + \frac{2}{43}\sqrt{322}e^{25},$ $\frac{2}{43}\sqrt{322}e^{17} + \frac{2}{43}\sqrt{14}e^{26}$	$(-\frac{2}{43}, -\frac{3}{43}, -\frac{4}{43}, \frac{19}{43}, \frac{20}{43}, -\frac{5}{43}, -\frac{6}{43}, \frac{17}{43}, -\frac{8}{43})$ $+\frac{2}{43}\sqrt{511}e^5 \otimes e_9$	{1234689, 139, 245, 568}
941:221	$0, 0, 0, 0, 0, \frac{18}{503}\sqrt{462}e^{12}, \frac{36}{503}\sqrt{57}e^{13}, \frac{18}{503}\sqrt{462}e^{14} + \frac{18}{503}\sqrt{267}e^{25},$ $\frac{36}{503}\sqrt{39}e^{17} + \frac{54}{503}\sqrt{13}e^{26}$	$(\frac{219}{503}, -\frac{24}{503}, -\frac{267}{503}, -\frac{74}{503}, \frac{169}{503}, \frac{195}{503}, -\frac{48}{503}, \frac{145}{503}, \frac{171}{503})$ $+\frac{54}{503}\sqrt{141}e^1 \otimes e_3$	{1249, 12589, 14569, 1689, 234568, 236, 348, 35}
941:221	$0, 0, 0, 0, 0, \frac{40}{3027}\sqrt{437}e^{12}, \frac{40}{3027}\sqrt{453}e^{13},$ $\frac{160}{3027}\sqrt{73}e^{14} + \frac{40}{3027}\sqrt{694}e^{25}, \frac{40}{3027}\sqrt{233}e^{17} + \frac{40}{3027}\sqrt{723}e^{26}$	$(\frac{60}{1009}, -\frac{220}{3027}, -\frac{620}{3027}, \frac{180}{1009}, \frac{940}{3027}, -\frac{40}{3027}, -\frac{440}{3027}, \frac{240}{1009}, -\frac{260}{3027})$ $-\frac{40}{3027}\sqrt{1319}e^1 \otimes e_3 + \frac{40}{3027}\sqrt{1462}e^4 \otimes e_9$	{12589, 1689, 234568, 348}
941:221	$0, 0, 0, 0, 0, \frac{1}{95}\sqrt{322}e^{12}, \frac{21}{95}\sqrt{2}e^{13}, \frac{1}{95}\sqrt{910}e^{14} + \frac{12}{95}\sqrt{7}e^{25},$ $\frac{2}{19}\sqrt{14}e^{17} + \frac{2}{95}\sqrt{77}e^{26}$	$(\frac{13}{95}, -\frac{1}{19}, -\frac{23}{95}, -\frac{1}{95}, \frac{17}{95}, \frac{8}{95}, -\frac{2}{95}, \frac{12}{95}, \frac{3}{95})$ $+\frac{14}{95}\sqrt{6}e^1 \otimes e_4 + \frac{1}{95}\sqrt{1246}e^5 \otimes e_9$	{139, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:221	$0, 0, 0, 0, 0, \frac{18}{503}\sqrt{462}e^{12}, \frac{36}{503}\sqrt{57}e^{13}, \frac{18}{503}\sqrt{462}e^{14} + \frac{18}{503}\sqrt{267}e^{25},$ $\frac{36}{503}\sqrt{39}e^{17} + \frac{54}{503}\sqrt{13}e^{26}$	$(\frac{219}{503}, -\frac{24}{503}, -\frac{267}{503}, -\frac{74}{503}, \frac{169}{503}, \frac{195}{503}, -\frac{48}{503}, \frac{145}{503}, \frac{171}{503})$ $-\frac{54}{503}\sqrt{141}e^1 \otimes e_3$	{1249, 12589, 14569, 1689, 234568, 236, 348, 35}
941:221	$0, 0, 0, 0, 0, \frac{7}{1027}\sqrt{10470}e^{12}, \frac{70}{1027}\sqrt{129}e^{13},$ $\frac{14}{1027}\sqrt{645}e^{14} + \frac{21}{1027}\sqrt{1630}e^{25}, \frac{7}{1027}\sqrt{5970}e^{17} + \frac{21}{1027}\sqrt{590}e^{26}$	$(-\frac{209}{1027}, \frac{194}{1027}, \frac{597}{1027}, \frac{71}{1027}, -\frac{332}{1027}, -\frac{15}{1027}, \frac{388}{1027}, -\frac{138}{1027}, \frac{179}{1027})$ $+\frac{210}{1027}\sqrt{29}e^3 \otimes e_8$	{1234569, 1349, 248, 4568}
941:221	$0, 0, 0, 0, 0, \frac{10}{113}\sqrt{7}e^{12}, \frac{30}{113}e^{13}, \frac{10}{113}\sqrt{7}e^{14} + \frac{10}{113}\sqrt{29}e^{25},$ $\frac{10}{113}\sqrt{42}e^{17} + \frac{10}{113}e^{26}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{20}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{35}{113}, -\frac{5}{113})$ $+\frac{10}{113}\sqrt{39}e^1 \otimes e_3 + \frac{10}{113}\sqrt{61}e^5 \otimes e_9$	{12567, 14578, 23789, 34679}
941:221	$0, 0, 0, 0, 0, \frac{40}{3027}\sqrt{437}e^{12}, \frac{40}{3027}\sqrt{453}e^{13},$ $\frac{160}{3027}\sqrt{73}e^{14} + \frac{40}{3027}\sqrt{694}e^{25}, \frac{40}{3027}\sqrt{233}e^{17} + \frac{40}{3027}\sqrt{723}e^{26}$	$(\frac{60}{1009}, -\frac{220}{3027}, -\frac{620}{3027}, \frac{180}{1009}, \frac{940}{3027}, -\frac{40}{3027}, -\frac{440}{3027}, \frac{240}{1009}, -\frac{260}{3027})$ $+\frac{40}{3027}\sqrt{1319}e^1 \otimes e_3 + \frac{40}{3027}\sqrt{1462}e^4 \otimes e_9$	{12589, 1689, 234568, 348}
941:221	$0, 0, 0, 0, 0, \frac{10}{113}\sqrt{7}e^{12}, \frac{30}{113}e^{13}, \frac{10}{113}\sqrt{7}e^{14} + \frac{10}{113}\sqrt{29}e^{25},$ $\frac{10}{113}\sqrt{42}e^{17} + \frac{10}{113}e^{26}$	$(\frac{15}{113}, -\frac{10}{113}, -\frac{35}{113}, \frac{20}{113}, \frac{45}{113}, \frac{5}{113}, -\frac{20}{113}, \frac{35}{113}, -\frac{5}{113})$ $-\frac{10}{113}\sqrt{39}e^1 \otimes e_3 + \frac{10}{113}\sqrt{61}e^5 \otimes e_9$	{12567, 14578, 23789, 34679}
941:221	$0, 0, 0, 0, 0, \frac{4}{1015}\sqrt{1686}e^{12}, \frac{4}{1015}\sqrt{8430}e^{13},$ $\frac{1}{1015}\sqrt{696318}e^{14} + \frac{3}{1015}\sqrt{38778}e^{25}, \frac{1}{1015}\sqrt{133194}e^{17} + \frac{3}{1015}\sqrt{71374}e^{26}$	$(-\frac{239}{1015}, -\frac{1}{1015}, \frac{237}{1015}, \frac{86}{145}, \frac{52}{145}, -\frac{48}{203}, -\frac{2}{1015}, \frac{363}{1015}, -\frac{241}{1015})$ $+\frac{6}{1015}\sqrt{40183}e^4 \otimes e_9$	{123467, 13457, 279, 5679}
941:221	$0, 0, 0, 0, 0, \frac{14}{1027}\sqrt{645}e^{12}, \frac{70}{1027}\sqrt{129}e^{13},$ $\frac{7}{1027}\sqrt{10470}e^{14} + \frac{7}{1027}\sqrt{5970}e^{25}, \frac{21}{1027}\sqrt{1630}e^{17} + \frac{21}{1027}\sqrt{590}e^{26}$	$(\frac{371}{1027}, \frac{49}{1027}, -\frac{21}{79}, -\frac{28}{79}, -\frac{42}{1027}, \frac{420}{1027}, \frac{98}{1027}, \frac{7}{1027}, \frac{469}{1027})$ $+\frac{210}{1027}\sqrt{29}e^1 \otimes e_4$	{1257, 167, 2345679, 3479}
941:221	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{35}e^{12}, \frac{5}{129}\sqrt{154}e^{13}, \frac{2}{43}\sqrt{35}e^{14} + \frac{2}{129}\sqrt{770}e^{25},$ $\frac{2}{129}\sqrt{770}e^{17} + \frac{5}{129}\sqrt{70}e^{26}$	$(\frac{8}{129}, \frac{4}{43}, \frac{16}{129}, -\frac{9}{43}, -\frac{31}{129}, \frac{20}{43}, \frac{8}{129}, -\frac{19}{129}, \frac{32}{129})$ $+\frac{2}{129}\sqrt{1015}e^1 \otimes e_4 + \frac{2}{129}\sqrt{1015}e^3 \otimes e_8$	{123569, 139}
941:221	$0, 0, 0, 0, 0, \frac{1}{95}\sqrt{910}e^{12}, \frac{21}{95}\sqrt{2}e^{13}, \frac{1}{95}\sqrt{322}e^{14} + \frac{2}{19}\sqrt{14}e^{25},$ $\frac{12}{95}\sqrt{7}e^{17} + \frac{2}{95}\sqrt{77}e^{26}$	$(-\frac{3}{19}, \frac{2}{95}, \frac{1}{5}, \frac{4}{19}, \frac{3}{95}, -\frac{13}{95}, \frac{4}{19}, \frac{1}{95}, -\frac{11}{95})$ $+\frac{14}{95}\sqrt{6}e^3 \otimes e_8 + \frac{1}{95}\sqrt{1246}e^5 \otimes e_9$	{139, 568}
941:221	$0, 0, 0, 0, 0, \frac{2}{305}\sqrt{15347}e^{12}, \frac{2}{305}\sqrt{6109}e^{13},$ $\frac{1}{305}\sqrt{19966}e^{14} + \frac{149}{305}\sqrt{2}e^{25}, \frac{149}{305}\sqrt{2}e^{17} + \frac{1}{305}\sqrt{59898}e^{26}$	$(-\frac{3}{61}, \frac{47}{305}, \frac{109}{305}, -\frac{8}{61}, -\frac{102}{305}, \frac{32}{305}, \frac{94}{305}, -\frac{11}{61}, \frac{79}{305})$ $+\frac{2}{305}\sqrt{20711}e^2 \otimes e_5$	{123479, 1345679, 267, 57}
941:221	$0, 0, 0, 0, 0, \frac{26}{355}\sqrt{173}e^{12}, \frac{13}{355}\sqrt{334}e^{13}, \frac{26}{355}\sqrt{46}e^{14} + \frac{26}{355}\sqrt{137}e^{25},$ $\frac{26}{355}\sqrt{122}e^{17} + \frac{13}{355}\sqrt{642}e^{26}$	$(0, \frac{52}{355}, \frac{104}{355}, -\frac{13}{71}, -\frac{117}{355}, \frac{52}{355}, \frac{104}{355}, -\frac{13}{71}, \frac{104}{355})$ $+\frac{26}{355}\sqrt{209}e^2 \otimes e_5 + \frac{78}{355}\sqrt{5}e^3 \otimes e_8$	{267, 57}
941:222	$0, 0, 0, 0, 0, \frac{1}{367}\sqrt{74670}e^{12}, \frac{3}{367}\sqrt{3990}e^{13}, \frac{24}{367}\sqrt{95}e^{14} + \frac{1}{367}\sqrt{3990}e^{25},$ $\frac{1}{367}\sqrt{81510}e^{16} + \frac{1}{367}\sqrt{16530}e^{37}$	$(\frac{126}{367}, -\frac{82}{367}, \frac{22}{367}, -\frac{159}{367}, \frac{49}{367}, \frac{44}{367}, \frac{148}{367}, -\frac{33}{367}, \frac{170}{367})$ $+\frac{1}{367}\sqrt{177270}e^1 \otimes e_4$	{136, 167, 2345679, 24569}
941:222	$0, 0, 0, 0, 0, \frac{64}{783}\sqrt{3}e^{12}, \frac{8}{783}\sqrt{227}e^{13}, \frac{8}{783}\sqrt{249}e^{14} + \frac{4}{783}\sqrt{682}e^{25},$ $\frac{4}{783}\sqrt{678}e^{16} + \frac{4}{783}\sqrt{1270}e^{37}$	$(-\frac{44}{783}, \frac{92}{783}, \frac{8}{261}, \frac{4}{87}, -\frac{100}{783}, \frac{16}{261}, -\frac{20}{783}, -\frac{8}{783}, \frac{4}{783})$ $+\frac{4}{783}\sqrt{858}e^4 \otimes e_9 + \frac{8}{783}\sqrt{498}e^3 \otimes e_8$	{126789, 4568}
941:222	$0, 0, 0, 0, 0, \frac{3}{1517}\sqrt{734}e^{12}, \frac{3}{1517}\sqrt{958}e^{13}, \frac{18}{1517}\sqrt{11}e^{14} + \frac{6}{1517}\sqrt{281}e^{25},$ $\frac{3}{1517}\sqrt{434}e^{16} + \frac{102}{1517}e^{37}$	$(\frac{45}{1517}, -\frac{57}{1517}, -\frac{6}{1517}, -\frac{60}{1517}, \frac{42}{1517}, -\frac{12}{1517}, \frac{39}{1517}, -\frac{15}{1517}, \frac{33}{1517})$ $+\frac{3}{1517}\sqrt{1826}e^3 \otimes e_8 + \frac{6}{1517}\sqrt{233}e^5 \otimes e_9$	{126789, 4568}
941:222	$0, 0, 0, 0, 0, \frac{16}{227}\sqrt{38}e^{12}, \frac{32}{227}\sqrt{7}e^{13}, \frac{32}{227}\sqrt{10}e^{14} + \frac{8}{227}\sqrt{70}e^{25},$ $\frac{24}{227}\sqrt{14}e^{16} + \frac{40}{227}\sqrt{6}e^{37}$	$(-\frac{56}{227}, \frac{88}{227}, \frac{16}{227}, \frac{104}{227}, -\frac{40}{227}, \frac{32}{227}, -\frac{40}{227}, \frac{48}{227}, -\frac{24}{227})$ $+\frac{16}{227}\sqrt{83}e^2 \otimes e_5 - \frac{8}{227}\sqrt{474}e^4 \otimes e_9$	{134567, 1456, 2369, 2679}
941:222	$0, 0, 0, 0, 0, \frac{16}{227}\sqrt{38}e^{12}, \frac{32}{227}\sqrt{7}e^{13}, \frac{32}{227}\sqrt{10}e^{14} + \frac{8}{227}\sqrt{70}e^{25},$ $\frac{24}{227}\sqrt{14}e^{16} + \frac{40}{227}\sqrt{6}e^{37}$	$(-\frac{56}{227}, \frac{88}{227}, \frac{16}{227}, \frac{104}{227}, -\frac{40}{227}, \frac{32}{227}, -\frac{40}{227}, \frac{48}{227}, -\frac{24}{227})$ $+\frac{16}{227}\sqrt{83}e^2 \otimes e_5 + \frac{8}{227}\sqrt{474}e^4 \otimes e_9$	{134567, 1456, 2369, 2679}
941:222	$0, 0, 0, 0, 0, \frac{3}{97}\sqrt{166}e^{12}, \frac{3}{97}\sqrt{211}e^{13}, \frac{3}{97}\sqrt{133}e^{14} + \frac{6}{97}\sqrt{39}e^{25},$ $\frac{3}{97}\sqrt{165}e^{16} + \frac{30}{97}\sqrt{2}e^{37}$	$(\frac{9}{97}, \frac{3}{97}, \frac{6}{97}, -\frac{21}{97}, -\frac{15}{97}, \frac{12}{97}, \frac{15}{97}, -\frac{12}{97}, \frac{21}{97})$ $+\frac{3}{97}\sqrt{386}e^3 \otimes e_8 + \frac{3}{97}\sqrt{47}e^2 \otimes e_5$	{1234569, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:222	$0, 0, 0, 0, 0, \frac{7}{139}\sqrt{110}e^{12}, \frac{7}{139}\sqrt{14}e^{13}, \frac{14}{139}\sqrt{14}e^{14} + \frac{7}{139}\sqrt{10}e^{25},$ $\frac{7}{139}\sqrt{78}e^{16} + \frac{21}{139}\sqrt{2}e^{37}$	$(\frac{14}{139}, \frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $+ \frac{14}{139}\sqrt{26}e^2 \otimes e_5 + \frac{35}{139}\sqrt{6}e^1 \otimes e_4$	{1356, 1567, 234679, 2469}
941:222	$0, 0, 0, 0, 0, \frac{7}{139}\sqrt{110}e^{12}, \frac{7}{139}\sqrt{14}e^{13}, \frac{14}{139}\sqrt{14}e^{14} + \frac{7}{139}\sqrt{10}e^{25},$ $\frac{7}{139}\sqrt{78}e^{16} + \frac{21}{139}\sqrt{2}e^{37}$	$(\frac{14}{139}, \frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $- \frac{14}{139}\sqrt{26}e^2 \otimes e_5 + \frac{35}{139}\sqrt{6}e^1 \otimes e_4$	{1356, 1567, 234679, 2469}
941:222	$0, 0, 0, 0, 0, \frac{1}{361}\sqrt{130790}e^{12}, \frac{8}{361}\sqrt{451}e^{13}, \frac{22}{361}\sqrt{41}e^{14} + \frac{2}{361}\sqrt{4510}e^{25},$ $\frac{6}{361}\sqrt{902}e^{16} + \frac{3}{361}\sqrt{902}e^{37}$	$(-\frac{64}{361}, \frac{236}{361}, \frac{86}{361}, \frac{85}{361}, -\frac{215}{361}, \frac{172}{361}, \frac{22}{361}, \frac{21}{361}, \frac{108}{361})$ $+ \frac{2}{361}\sqrt{67199}e^2 \otimes e_5$	{13567, 156, 23469, 24679}
941:222	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{10}e^{12}, \frac{2}{25}\sqrt{30}e^{13}, \frac{4}{25}\sqrt{5}e^{14} + \frac{3}{25}\sqrt{10}e^{25},$ $\frac{2}{5}e^{16} + \frac{2}{25}\sqrt{30}e^{37}$	$(\frac{1}{25}, \frac{3}{25}, \frac{2}{25}, -\frac{4}{25}, -\frac{6}{25}, \frac{4}{25}, \frac{3}{25}, -\frac{3}{25}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{10}e^1 \otimes e_4 + \frac{1}{25}\sqrt{230}e^3 \otimes e_8$	{1234569, 367}
941:222	$0, 0, 0, 0, 0, \frac{1}{761}\sqrt{21606}e^{12}, \frac{1}{761}\sqrt{17174}e^{13},$ $\frac{5}{761}\sqrt{6094}e^{14} + \frac{6}{761}\sqrt{9418}e^{25}, \frac{4}{761}\sqrt{16343}e^{16} + \frac{10}{761}\sqrt{1939}e^{37}$	$(\frac{31}{761}, -\frac{161}{761}, -\frac{65}{761}, \frac{263}{761}, \frac{455}{761}, -\frac{130}{761}, -\frac{34}{761}, \frac{294}{761}, -\frac{99}{761})$ $+ \frac{1}{761}\sqrt{704134}e^5 \otimes e_9$	{139, 179, 23457, 245}
941:222	$0, 0, 0, 0, 0, \frac{1}{1467}\sqrt{284970}e^{12}, \frac{5}{1467}\sqrt{16166}e^{13},$ $\frac{4}{489}\sqrt{1770}e^{14} + \frac{2}{1467}\sqrt{74635}e^{25}, \frac{1}{1467}\sqrt{316830}e^{16} + \frac{2}{1467}\sqrt{98530}e^{37}$	$(\frac{77}{1467}, \frac{151}{1467}, \frac{38}{489}, -\frac{86}{489}, -\frac{332}{1467}, \frac{76}{489}, \frac{191}{489}, -\frac{181}{1467}, \frac{305}{1467})$ $+ \frac{1}{1467}\sqrt{762870}e^3 \otimes e_8$	{1234569, 126789, 367, 4568}
941:223	$0, 0, 0, 0, 0, -\frac{1}{385}\sqrt{108611}e^{12}, \frac{1}{385}\sqrt{26605}e^{13},$ $\frac{4}{385}\sqrt{313}e^{14} + \frac{1}{385}\sqrt{63226}e^{25}, \frac{3}{385}\sqrt{12207}e^{26} + \frac{9}{385}\sqrt{313}e^{37}$	$(-\frac{17}{77}, \frac{137}{385}, \frac{137}{385}, \frac{46}{385}, -\frac{16}{35}, \frac{52}{385}, \frac{52}{385}, -\frac{39}{385}, \frac{27}{55})$ $+ \frac{1}{385}\sqrt{207206}e^2 \otimes e_5$	{123479, 1249, 1345679, 14569, 236, 267, 35, 57, 123479, 1249, 1345679, 14569, 236, 267, 35, 57}
941:223	$0, 0, 0, 0, 0, \frac{1}{385}\sqrt{108611}e^{12}, \frac{1}{385}\sqrt{26605}e^{13},$ $\frac{4}{385}\sqrt{313}e^{14} + \frac{1}{385}\sqrt{63226}e^{25}, \frac{3}{385}\sqrt{12207}e^{26} + \frac{9}{385}\sqrt{313}e^{37}$	$(-\frac{17}{77}, \frac{137}{385}, \frac{137}{385}, \frac{46}{385}, -\frac{16}{35}, \frac{52}{385}, \frac{52}{385}, -\frac{39}{385}, \frac{27}{55})$ $+ \frac{1}{385}\sqrt{207206}e^2 \otimes e_5$	{123479, 1249, 1345679, 14569, 236, 267, 35, 57, 123479, 1249, 1345679, 14569, 236, 267, 35, 57}
941:223	$0, 0, 0, 0, 0, -\frac{1}{405}\sqrt{100947}e^{12}, \frac{1}{405}\sqrt{99199}e^{13},$ $\frac{1}{405}\sqrt{44574}e^{14} + \frac{2}{405}\sqrt{874}e^{25}, \frac{1}{405}\sqrt{17043}e^{26} + \frac{1}{405}\sqrt{15295}e^{37}$	$(\frac{227}{405}, -\frac{59}{405}, -\frac{59}{405}, -\frac{14}{27}, \frac{76}{405}, \frac{56}{135}, \frac{56}{135}, \frac{17}{405}, \frac{109}{405})$ $+ \frac{1}{135}\sqrt{32338}e^1 \otimes e_4$	{1239, 1279, 13569, 15679, 23467, 246, 3457, 45, 1239, 1279, 13569, 15679, 23467, 246, 3457, 45}
941:223	$0, 0, 0, 0, 0, \frac{1}{405}\sqrt{100947}e^{12}, \frac{1}{405}\sqrt{99199}e^{13},$ $\frac{1}{405}\sqrt{44574}e^{14} + \frac{2}{405}\sqrt{874}e^{25}, \frac{1}{405}\sqrt{17043}e^{26} + \frac{1}{405}\sqrt{15295}e^{37}$	$(\frac{227}{405}, -\frac{59}{405}, -\frac{59}{405}, -\frac{14}{27}, \frac{76}{405}, \frac{56}{135}, \frac{56}{135}, \frac{17}{405}, \frac{109}{405})$ $+ \frac{1}{135}\sqrt{32338}e^1 \otimes e_4$	{1239, 1279, 13569, 15679, 23467, 246, 3457, 45, 1239, 1279, 13569, 15679, 23467, 246, 3457, 45}
941:223	$0, 0, 0, 0, 0, -\frac{1}{569}\sqrt{257}e^{12}, \frac{1}{569}\sqrt{313}e^{13}, \frac{2}{569}\sqrt{17}e^{14} + \frac{7}{569}\sqrt{10}e^{25},$ $\frac{1}{569}\sqrt{143}e^{26} + \frac{1}{569}\sqrt{427}e^{37}$	$(-\frac{12}{569}, \frac{5}{569}, \frac{5}{569}, \frac{16}{569}, -\frac{1}{569}, -\frac{7}{569}, -\frac{7}{569}, \frac{4}{569}, -\frac{2}{569})$ $+ \frac{2}{569}\sqrt{97}e^5 \otimes e_9 + \frac{5}{569}\sqrt{26}e^3 \otimes e_8$	{126789, 1349, 2357, 4568, 126789, 1349, 2357, 4568}
941:223	$0, 0, 0, 0, 0, \frac{1}{569}\sqrt{257}e^{12}, \frac{1}{569}\sqrt{313}e^{13}, \frac{2}{569}\sqrt{17}e^{14} + \frac{7}{569}\sqrt{10}e^{25},$ $\frac{1}{569}\sqrt{143}e^{26} + \frac{1}{569}\sqrt{427}e^{37}$	$(-\frac{12}{569}, \frac{5}{569}, \frac{5}{569}, \frac{16}{569}, -\frac{1}{569}, -\frac{7}{569}, -\frac{7}{569}, \frac{4}{569}, -\frac{2}{569})$ $+ \frac{2}{569}\sqrt{97}e^5 \otimes e_9 + \frac{5}{569}\sqrt{26}e^3 \otimes e_8$	{126789, 1349, 2357, 4568, 126789, 1349, 2357, 4568}
941:223	$0, 0, 0, 0, 0, -\frac{16}{245}\sqrt{22}e^{12}, \frac{32}{245}\sqrt{11}e^{13}, \frac{8}{245}\sqrt{106}e^{14} + \frac{32}{245}\sqrt{11}e^{25},$ $\frac{8}{245}\sqrt{82}e^{26} + \frac{8}{245}\sqrt{170}e^{37}$	$(\frac{88}{245}, -\frac{8}{35}, -\frac{8}{35}, -\frac{8}{49}, \frac{104}{245}, \frac{32}{245}, \frac{32}{245}, \frac{48}{245}, -\frac{24}{245})$ $+ \frac{16}{245}\sqrt{97}e^1 \otimes e_4 + \frac{8}{245}\sqrt{470}e^5 \otimes e_9$	{1369, 1679, 234567, 2456, 1369, 1679, 234567, 2456}
941:223	$0, 0, 0, 0, 0, \frac{16}{245}\sqrt{22}e^{12}, \frac{32}{245}\sqrt{11}e^{13}, \frac{8}{245}\sqrt{106}e^{14} + \frac{32}{245}\sqrt{11}e^{25},$ $\frac{8}{245}\sqrt{82}e^{26} + \frac{8}{245}\sqrt{170}e^{37}$	$(\frac{88}{245}, -\frac{8}{35}, -\frac{8}{35}, -\frac{8}{49}, \frac{104}{245}, \frac{32}{245}, \frac{32}{245}, \frac{48}{245}, -\frac{24}{245})$ $+ \frac{16}{245}\sqrt{97}e^1 \otimes e_4 + \frac{8}{245}\sqrt{470}e^5 \otimes e_9$	{1369, 1679, 234567, 2456, 1369, 1679, 234567, 2456}
941:223	$0, 0, 0, 0, 0, -\frac{2}{81}\sqrt{114}e^{12}, \frac{1}{81}\sqrt{1102}e^{13}, \frac{2}{81}\sqrt{57}e^{14} + \frac{2}{81}\sqrt{266}e^{25},$ $\frac{1}{81}\sqrt{570}e^{26} + \frac{2}{81}\sqrt{247}e^{37}$	$(\frac{4}{81}, \frac{8}{81}, \frac{8}{81}, -\frac{5}{27}, -\frac{19}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{11}{81}, \frac{20}{81})$ $+ \frac{2}{27}\sqrt{19}e^1 \otimes e_4 + \frac{2}{27}\sqrt{57}e^3 \otimes e_8$	{126789, 15789, 248, 4568, 126789, 15789, 248, 4568}
941:223	$0, 0, 0, 0, 0, \frac{2}{81}\sqrt{114}e^{12}, \frac{1}{81}\sqrt{1102}e^{13}, \frac{2}{81}\sqrt{57}e^{14} + \frac{2}{81}\sqrt{266}e^{25},$ $\frac{1}{81}\sqrt{570}e^{26} + \frac{2}{81}\sqrt{247}e^{37}$	$(\frac{4}{81}, \frac{8}{81}, \frac{8}{81}, -\frac{5}{27}, -\frac{19}{81}, \frac{4}{27}, \frac{4}{27}, -\frac{11}{81}, \frac{20}{81})$ $+ \frac{2}{27}\sqrt{19}e^1 \otimes e_4 + \frac{2}{27}\sqrt{57}e^3 \otimes e_8$	{126789, 15789, 248, 4568, 126789, 15789, 248, 4568}
941:223	$0, 0, 0, 0, 0, -\frac{13}{1539}\sqrt{582}e^{12}, \frac{26}{1539}\sqrt{151}e^{13},$ $\frac{26}{1539}\sqrt{201}e^{14} + \frac{26}{1539}\sqrt{161}e^{25}, \frac{26}{1539}\sqrt{30}e^{26} + \frac{13}{1539}\sqrt{1066}e^{37}$	$(-\frac{260}{1539}, \frac{182}{1539}, \frac{91}{513}, -\frac{169}{1539}, -\frac{26}{513}, -\frac{26}{513}, \frac{13}{1539}, \frac{104}{1539})$ $+ \frac{104}{513}\sqrt{3}e^3 \otimes e_8 + \frac{26}{513}\sqrt{29}e^4 \otimes e_9$	{126789, 15789, 248, 4568, 126789, 15789, 248, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:223	$0, 0, 0, 0, 0, \frac{13}{1539}\sqrt{582}e^{12}, \frac{26}{1539}\sqrt{151}e^{13},$ $\frac{26}{1539}\sqrt{201}e^{14} + \frac{26}{1539}\sqrt{161}e^{25}, \frac{26}{1539}\sqrt{30}e^{26} + \frac{13}{1539}\sqrt{1066}e^{37}$	$(-\frac{260}{1539}, \frac{182}{1539}, \frac{182}{1539}, \frac{91}{513}, -\frac{169}{1539}, -\frac{26}{513}, -\frac{26}{513}, \frac{13}{1539}, \frac{104}{1539})$ $+\frac{104}{513}\sqrt{3}e^3 \otimes e_8 + \frac{26}{513}\sqrt{29}e^4 \otimes e_9$	{126789, 15789, 248, 4568, 126789, 15789, 248, 4568}
941:223	$0, 0, 0, 0, 0, -\frac{12}{131}\sqrt{22}e^{12}, \frac{3}{131}\sqrt{286}e^{13}, \frac{6}{131}\sqrt{22}e^{14} + \frac{18}{131}\sqrt{11}e^{25},$ $\frac{3}{131}\sqrt{330}e^{26} + \frac{6}{131}\sqrt{77}e^{37}$	$(\frac{12}{131}, 0, 0, -\frac{21}{131}, -\frac{9}{131}, \frac{12}{131}, \frac{12}{131}, -\frac{9}{131}, \frac{12}{131})$ $+\frac{6}{131}\sqrt{137}e^3 \otimes e_8 + \frac{6}{131}\sqrt{83}e^2 \otimes e_5$	{1234569, 1349, 2357, 367, 1234569, 1349, 2357, 367}
941:223	$0, 0, 0, 0, 0, \frac{12}{131}\sqrt{22}e^{12}, \frac{3}{131}\sqrt{286}e^{13}, \frac{6}{131}\sqrt{22}e^{14} + \frac{18}{131}\sqrt{11}e^{25},$ $\frac{3}{131}\sqrt{330}e^{26} + \frac{6}{131}\sqrt{77}e^{37}$	$(\frac{12}{131}, 0, 0, -\frac{21}{131}, -\frac{9}{131}, \frac{12}{131}, \frac{12}{131}, -\frac{9}{131}, \frac{12}{131})$ $+\frac{6}{131}\sqrt{137}e^3 \otimes e_8 + \frac{6}{131}\sqrt{83}e^2 \otimes e_5$	{1234569, 1349, 2357, 367, 1234569, 1349, 2357, 367}
941:223	$0, 0, 0, 0, 0, -\frac{7}{405}\sqrt{627}e^{12}, \frac{1}{405}\sqrt{40831}e^{13},$ $\frac{2}{405}\sqrt{3990}e^{14} + \frac{1}{405}\sqrt{49742}e^{25}, \frac{1}{405}\sqrt{26733}e^{26} + \frac{1}{405}\sqrt{44821}e^{37}$	$(-\frac{44}{405}, \frac{83}{405}, \frac{83}{405}, -\frac{2}{135}, -\frac{133}{405}, \frac{13}{135}, \frac{13}{135}, -\frac{10}{81}, \frac{122}{405})$ $+\frac{1}{135}\sqrt{10374}e^3 \otimes e_8$	{1234569, 126789, 1349, 15789, 2357, 248, 367, 4568, 1234569, 126789, 1349, 15789, 2357, 248, 367, 4568}
941:223	$0, 0, 0, 0, 0, \frac{7}{405}\sqrt{627}e^{12}, \frac{1}{405}\sqrt{40831}e^{13},$ $\frac{2}{405}\sqrt{3990}e^{14} + \frac{1}{405}\sqrt{49742}e^{25}, \frac{1}{405}\sqrt{26733}e^{26} + \frac{1}{405}\sqrt{44821}e^{37}$	$(-\frac{44}{405}, \frac{83}{405}, \frac{83}{405}, -\frac{2}{135}, -\frac{133}{405}, \frac{13}{135}, \frac{13}{135}, -\frac{10}{81}, \frac{122}{405})$ $+\frac{1}{135}\sqrt{10374}e^3 \otimes e_8$	{1234569, 126789, 1349, 15789, 2357, 248, 367, 4568, 1234569, 126789, 1349, 15789, 2357, 248, 367, 4568}
941:225	$0, 0, 0, 0, 0, \frac{7}{113}\sqrt{33}e^{12}, \frac{7}{339}\sqrt{429}e^{13}, \frac{7}{339}\sqrt{55}e^{23} + \frac{28}{339}\sqrt{33}e^{45},$ $\frac{14}{339}\sqrt{66}e^{17} + \frac{14}{339}\sqrt{110}e^{26}$	$(\frac{49}{678}, \frac{77}{678}, \frac{35}{226}, \frac{105}{113}, -\frac{224}{339}, \frac{21}{113}, \frac{77}{339}, \frac{91}{339}, \frac{203}{678})$ $+\frac{539}{339}e^4 \otimes e_5$	{123489, 123589, 48, 58}
941:225	$0, 0, 0, 0, 0, \frac{28}{3701}\sqrt{166}e^{12}, \frac{28}{3701}\sqrt{701}e^{13},$ $\frac{28}{3701}\sqrt{94}e^{23} + \frac{28}{3701}\sqrt{1265}e^{45}, \frac{28}{3701}\sqrt{1070}e^{17} + \frac{140}{3701}\sqrt{13}e^{26}$	$(\frac{238}{3701}, \frac{28}{3701}, -\frac{182}{3701}, \frac{686}{3701}, -\frac{840}{3701}, \frac{266}{3701}, \frac{56}{3701}, -\frac{154}{3701}, \frac{294}{3701})$ $+\frac{140}{3701}\sqrt{70}e^1 \otimes e_8 + \frac{28}{3701}\sqrt{1526}e^4 \otimes e_9$	{1369, 48}
941:225	$0, 0, 0, 0, 0, \frac{112}{2923}\sqrt{57}e^{12}, \frac{56}{2923}\sqrt{733}e^{13},$ $\frac{224}{2923}\sqrt{31}e^{23} + \frac{56}{2923}\sqrt{809}e^{45}, \frac{56}{2923}\sqrt{1010}e^{17} + \frac{56}{2923}\sqrt{335}e^{26}$	$(\frac{952}{2923}, \frac{112}{2923}, -\frac{728}{2923}, -\frac{308}{2923}, -\frac{308}{2923}, \frac{1064}{2923}, \frac{224}{2923}, -\frac{616}{2923}, \frac{1176}{2923})$ $+\frac{56}{2923}\sqrt{2422}e^1 \otimes e_8$	{14567, 167, 34789}
941:225	$0, 0, 0, 0, 0, \frac{112}{3707}\sqrt{57}e^{12}, \frac{56}{3707}\sqrt{733}e^{13},$ $\frac{224}{3707}\sqrt{31}e^{23} + \frac{56}{3707}\sqrt{809}e^{45}, \frac{56}{3707}\sqrt{1010}e^{17} + \frac{56}{3707}\sqrt{335}e^{26}$	$(\frac{952}{3707}, \frac{112}{3707}, -\frac{728}{3707}, \frac{476}{3707}, -\frac{1092}{3707}, \frac{1064}{3707}, \frac{224}{3707}, -\frac{56}{337}, \frac{1176}{3707})$ $+\frac{1568}{3707}e^4 \otimes e_5 + \frac{56}{3707}\sqrt{2422}e^1 \otimes e_8$	{34789, 35789}
941:225	$0, 0, 0, 0, 0, \frac{7}{36}e^{12}, \frac{7}{72}\sqrt{19}e^{13}, \frac{7}{12}e^{23} + \frac{7}{36}\sqrt{15}e^{45},$ $\frac{7}{72}\sqrt{30}e^{17} + \frac{35}{72}\sqrt{2}e^{26}$	$(-\frac{7}{36}, \frac{7}{144}, \frac{7}{24}, \frac{7}{12}, -\frac{35}{144}, -\frac{7}{48}, \frac{7}{72}, \frac{49}{144}, -\frac{7}{72})$ $+\frac{7}{72}\sqrt{119}e^4 \otimes e_9$	{123589, 1369, 2456, 48}
941:226	$0, 0, 0, 0, 0, \frac{1}{279}\sqrt{38570}e^{12}, \frac{8}{279}\sqrt{406}e^{13}, \frac{1}{279}\sqrt{57246}e^{24} + \frac{2}{93}\sqrt{609}e^{35},$ $\frac{1}{279}\sqrt{49938}e^{17} + \frac{1}{279}\sqrt{2030}e^{26}$	$(-\frac{49}{279}, -\frac{8}{279}, \frac{11}{93}, \frac{46}{93}, \frac{97}{279}, -\frac{19}{93}, -\frac{16}{279}, \frac{130}{279}, -\frac{65}{279})$ $+\frac{2}{279}\sqrt{23954}e^4 \otimes e_9$	{124567, 1478, 235789, 3679}
941:226	$0, 0, 0, 0, 0, \frac{312}{6139}\sqrt{22}e^{12}, \frac{39}{6139}\sqrt{4582}e^{13},$ $\frac{156}{6139}\sqrt{254}e^{24} + \frac{78}{6139}\sqrt{15}e^{35}, \frac{78}{6139}\sqrt{1011}e^{17} + \frac{39}{6139}\sqrt{2258}e^{26}$	$(\frac{624}{6139}, \frac{468}{6139}, \frac{312}{6139}, \frac{195}{6139}, -\frac{1209}{6139}, \frac{156}{877}, \frac{936}{6139}, -\frac{897}{6139}, \frac{1560}{6139})$ $+\frac{78}{6139}\sqrt{1783}e^1 \otimes e_8 + \frac{78}{6139}\sqrt{953}e^3 \otimes e_5$	{123469, 139}
941:226	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{5014}e^{12}, \frac{5}{161}\sqrt{218}e^{13}, \frac{3}{161}\sqrt{1090}e^{24} + \frac{1}{161}\sqrt{16786}e^{35},$ $\frac{2}{161}\sqrt{1417}e^{17} + \frac{2}{161}\sqrt{3270}e^{26}$	$(\frac{1}{161}, -\frac{13}{161}, -\frac{27}{161}, \frac{10}{23}, \frac{12}{23}, -\frac{12}{161}, -\frac{26}{161}, \frac{57}{161}, -\frac{25}{161})$ $+\frac{4}{161}\sqrt{1853}e^5 \otimes e_9$	{129, 1469, 2356, 345}
941:226	$0, 0, 0, 0, 0, \frac{1}{1095}\sqrt{603834}e^{12}, \frac{1}{1095}\sqrt{1309614}e^{13},$ $\frac{1}{1095}\sqrt{577694}e^{24} + \frac{1}{1095}\sqrt{462678}e^{35}, \frac{6}{365}\sqrt{1307}e^{17} + \frac{8}{1095}\sqrt{2614}e^{26}$	$(-\frac{241}{1095}, \frac{53}{219}, \frac{257}{365}, -\frac{2}{73}, -\frac{536}{1095}, \frac{8}{365}, \frac{106}{219}, \frac{47}{1095}, \frac{289}{1095})$ $+\frac{4}{1095}\sqrt{147691}e^3 \otimes e_5$	{123469, 139, 245, 56}
941:226	$0, 0, 0, 0, 0, \frac{3}{1007}\sqrt{63190}e^{12}, \frac{3}{1007}\sqrt{27690}e^{13},$ $\frac{1}{1007}\sqrt{411090}e^{24} + \frac{1}{1007}\sqrt{240690}e^{35}, \frac{2}{1007}\sqrt{82715}e^{17} + \frac{6}{1007}\sqrt{13490}e^{26}$	$(\frac{103}{1007}, \frac{101}{1007}, \frac{99}{1007}, -\frac{254}{1007}, -\frac{252}{1007}, \frac{204}{1007}, \frac{202}{1007}, -\frac{153}{1007}, \frac{305}{1007})$ $+\frac{20}{1007}\sqrt{1633}e^2 \otimes e_4$	{123579, 1345679, 267, 47}
941:226	$0, 0, 0, 0, 0, \frac{58}{4739}\sqrt{91}e^{12}, \frac{29}{4739}\sqrt{910}e^{13},$ $\frac{58}{4739}\sqrt{195}e^{24} + \frac{58}{4739}\sqrt{649}e^{35}, \frac{58}{4739}\sqrt{727}e^{17} + \frac{29}{4739}\sqrt{390}e^{26}$	$(\frac{754}{4739}, -\frac{232}{4739}, -\frac{174}{677}, \frac{145}{4739}, \frac{1131}{4739}, \frac{522}{4739}, -\frac{464}{4739}, -\frac{87}{4739}, \frac{290}{4739})$ $+\frac{58}{4739}\sqrt{1155}e^1 \otimes e_8 + \frac{58}{4739}\sqrt{947}e^5 \otimes e_9$	{2568, 458}
941:226	$0, 0, 0, 0, 0, \frac{9}{1549}\sqrt{614}e^{12}, \frac{108}{1549}\sqrt{6}e^{13},$ $\frac{9}{1549}\sqrt{1426}e^{24} + \frac{18}{1549}\sqrt{39}e^{35}, \frac{9}{1549}\sqrt{1374}e^{17} + \frac{9}{1549}\sqrt{410}e^{26}$	$(\frac{99}{1549}, -\frac{54}{1549}, -\frac{207}{1549}, \frac{72}{1549}, \frac{225}{1549}, \frac{45}{1549}, -\frac{108}{1549}, \frac{18}{1549}, -\frac{9}{1549})$ $+\frac{18}{1549}\sqrt{319}e^4 \otimes e_9 + \frac{9}{1549}\sqrt{382}e^1 \otimes e_8$	{139, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:226	$0, 0, 0, 0, 0, \frac{1}{1175}\sqrt{50482}e^{12}, \frac{2}{1175}\sqrt{107421}e^{13},$ $\frac{1}{1175}\sqrt{527126}e^{24} + \frac{4}{1175}\sqrt{8805}e^{35}, \frac{1}{1175}\sqrt{574086}e^{17} + \frac{1}{1175}\sqrt{292326}e^{26}$	$(\frac{363}{1175}, \frac{34}{1175}, -\frac{59}{235}, -\frac{258}{1175}, \frac{71}{1175}, \frac{397}{1175}, \frac{68}{1175}, -\frac{224}{1175}, \frac{431}{1175})$ $+ \frac{4}{1175}\sqrt{72201}e^1 \otimes e_8$	{1234569, 1359, 258, 4568}
941:226	$0, 0, 0, 0, 0, \frac{204}{875}\sqrt{7}e^{12}, \frac{51}{875}\sqrt{34}e^{13}, \frac{34}{875}\sqrt{141}e^{24} + \frac{68}{875}\sqrt{30}e^{35},$ $\frac{34}{875}\sqrt{101}e^{17} + \frac{51}{875}\sqrt{86}e^{26}$	$(\frac{136}{875}, \frac{68}{875}, 0, -\frac{221}{875}, -\frac{153}{875}, \frac{204}{875}, \frac{136}{875}, -\frac{153}{875}, \frac{272}{875})$ $+ \frac{102}{875}\sqrt{11}e^1 \otimes e_8 + \frac{34}{875}\sqrt{295}e^2 \otimes e_4$	{123579, 1345679}
941:226	$0, 0, 0, 0, 0, \frac{32}{249}\sqrt{15}e^{12}, \frac{8}{249}\sqrt{246}e^{13}, \frac{80}{249}\sqrt{3}e^{24} + \frac{4}{83}\sqrt{70}e^{35},$ $\frac{4}{83}\sqrt{110}e^{17} + \frac{4}{83}\sqrt{10}e^{26}$	$(-\frac{20}{83}, \frac{4}{83}, \frac{28}{83}, \frac{20}{83}, -\frac{4}{83}, -\frac{16}{83}, \frac{8}{83}, \frac{24}{83}, -\frac{12}{83})$ $+ \frac{4}{249}\sqrt{1626}e^4 \otimes e_9 + \frac{8}{249}\sqrt{267}e^3 \otimes e_5$	{139, 245}
941:227	$0, 0, 0, 0, 0, -\frac{3}{32}\sqrt{22}e^{12}, \frac{3}{32}\sqrt{22}e^{13}, \frac{3}{16}e^{23} + \frac{1}{16}\sqrt{66}e^{45},$ $\frac{1}{32}\sqrt{30}e^{26} + \frac{1}{32}\sqrt{30}e^{37}$	$(\frac{3}{8}, -\frac{3}{32}, -\frac{3}{32}, \frac{3}{16}, -\frac{3}{8}, \frac{9}{32}, \frac{9}{32}, -\frac{3}{16}, \frac{3}{16})$ $+ \frac{1}{8}\sqrt{42}e^1 \otimes e_8 + \frac{9}{16}e^4 \otimes e_5$	{2468, 2568, 2468, 2568}
941:227	$0, 0, 0, 0, 0, \frac{3}{32}\sqrt{22}e^{12}, \frac{3}{32}\sqrt{22}e^{13}, \frac{3}{16}e^{23} + \frac{1}{16}\sqrt{66}e^{45},$ $\frac{1}{32}\sqrt{30}e^{26} + \frac{1}{32}\sqrt{30}e^{37}$	$(\frac{3}{8}, -\frac{3}{32}, -\frac{3}{32}, \frac{3}{16}, -\frac{3}{8}, \frac{9}{32}, \frac{9}{32}, -\frac{3}{16}, \frac{3}{16})$ $+ \frac{1}{8}\sqrt{42}e^1 \otimes e_8 + \frac{9}{16}e^4 \otimes e_5$	{2468, 2568, 2468, 2568}
941:227	$0, 0, 0, 0, 0, -\frac{3}{23}\sqrt{22}e^{12}, \frac{3}{23}\sqrt{22}e^{13}, \frac{6}{23}e^{23} + \frac{2}{23}\sqrt{66}e^{45},$ $\frac{1}{23}\sqrt{30}e^{26} + \frac{1}{23}\sqrt{30}e^{37}$	$(\frac{12}{23}, -\frac{3}{23}, -\frac{3}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{9}{23}, \frac{9}{23}, -\frac{6}{23}, \frac{6}{23})$ $+ \frac{4}{23}\sqrt{42}e^1 \otimes e_8$	{123459, 1239, 145679, 1679, 2468, 123459, 1239, 145679, 1679, 2468}
941:227	$0, 0, 0, 0, 0, \frac{3}{23}\sqrt{22}e^{12}, \frac{3}{23}\sqrt{22}e^{13}, \frac{6}{23}e^{23} + \frac{2}{23}\sqrt{66}e^{45},$ $\frac{1}{23}\sqrt{30}e^{26} + \frac{1}{23}\sqrt{30}e^{37}$	$(\frac{12}{23}, -\frac{3}{23}, -\frac{3}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{9}{23}, \frac{9}{23}, -\frac{6}{23}, \frac{6}{23})$ $+ \frac{4}{23}\sqrt{42}e^1 \otimes e_8$	{123459, 1239, 145679, 1679, 2468, 123459, 1239, 145679, 1679, 2468}
941:227	$0, 0, 0, 0, 0, -\frac{3}{52}\sqrt{19}e^{12}, \frac{3}{52}\sqrt{19}e^{13}, \frac{3}{52}\sqrt{26}e^{23} + \frac{1}{52}\sqrt{390}e^{45},$ $\frac{1}{52}\sqrt{210}e^{26} + \frac{1}{52}\sqrt{210}e^{37}$	$(\frac{3}{26}, -\frac{3}{104}, -\frac{3}{104}, \frac{3}{13}, -\frac{15}{52}, \frac{9}{104}, \frac{9}{104}, -\frac{3}{52}, \frac{3}{52})$ $+ \frac{1}{52}\sqrt{330}e^1 \otimes e_8 + \frac{9}{52}\sqrt{6}e^4 \otimes e_9$	{1279, 234678, 48, 1279, 234678, 48}
941:227	$0, 0, 0, 0, 0, \frac{3}{52}\sqrt{19}e^{12}, \frac{3}{52}\sqrt{19}e^{13}, \frac{3}{52}\sqrt{26}e^{23} + \frac{1}{52}\sqrt{390}e^{45},$ $\frac{1}{52}\sqrt{210}e^{26} + \frac{1}{52}\sqrt{210}e^{37}$	$(\frac{3}{26}, -\frac{3}{104}, -\frac{3}{104}, \frac{3}{13}, -\frac{15}{52}, \frac{9}{104}, \frac{9}{104}, -\frac{3}{52}, \frac{3}{52})$ $+ \frac{1}{52}\sqrt{330}e^1 \otimes e_8 + \frac{9}{52}\sqrt{6}e^4 \otimes e_9$	{1279, 234678, 48, 1279, 234678, 48}
941:227	$0, 0, 0, 0, 0, -\frac{8}{207}\sqrt{94}e^{12}, \frac{8}{207}\sqrt{94}e^{13}, \frac{2}{207}\sqrt{4371}e^{23} + \frac{20}{207}\sqrt{47}e^{45},$ $\frac{10}{207}\sqrt{141}e^{26} + \frac{10}{207}\sqrt{141}e^{37}$	$(-\frac{29}{207}, \frac{7}{69}, \frac{7}{69}, \frac{107}{207}, -\frac{65}{207}, -\frac{8}{207}, -\frac{8}{207}, \frac{14}{69}, \frac{13}{207})$ $+ \frac{4}{207}\sqrt{2021}e^4 \otimes e_9$	{123589, 1279, 156789, 234678, 2456, 48, 123589, 1279, 156789, 234678, 2456, 48}
941:227	$0, 0, 0, 0, 0, \frac{8}{207}\sqrt{94}e^{12}, \frac{8}{207}\sqrt{94}e^{13}, \frac{2}{207}\sqrt{4371}e^{23} + \frac{20}{207}\sqrt{47}e^{45},$ $\frac{10}{207}\sqrt{141}e^{26} + \frac{10}{207}\sqrt{141}e^{37}$	$(-\frac{29}{207}, \frac{7}{69}, \frac{7}{69}, \frac{107}{207}, -\frac{65}{207}, -\frac{8}{207}, -\frac{8}{207}, \frac{14}{69}, \frac{13}{207})$ $+ \frac{4}{207}\sqrt{2021}e^4 \otimes e_9$	{123589, 1279, 156789, 234678, 2456, 48, 123589, 1279, 156789, 234678, 2456, 48}
941:227	$0, 0, 0, 0, 0, -\frac{1}{24}\sqrt{114}e^{12}, \frac{1}{24}\sqrt{114}e^{13}, \frac{1}{12}\sqrt{19}e^{23} + \frac{1}{12}\sqrt{38}e^{45},$ $\frac{1}{24}\sqrt{114}e^{26} + \frac{1}{24}\sqrt{114}e^{37}$	$(\frac{1}{12}, \frac{1}{8}, \frac{1}{8}, \frac{11}{12}, -\frac{2}{3}, \frac{5}{24}, \frac{5}{24}, \frac{1}{4}, \frac{1}{3})$ $+ \frac{19}{12}e^4 \otimes e_5$	{123489, 123589, 146789, 156789, 234678, 235678, 48, 58, 123489, 123589, 146789, 156789, 234678, 235678, 48, 58}
941:227	$0, 0, 0, 0, 0, \frac{1}{24}\sqrt{114}e^{12}, \frac{1}{24}\sqrt{114}e^{13}, \frac{1}{12}\sqrt{19}e^{23} + \frac{1}{12}\sqrt{38}e^{45},$ $\frac{1}{24}\sqrt{114}e^{26} + \frac{1}{24}\sqrt{114}e^{37}$	$(\frac{1}{12}, \frac{1}{8}, \frac{1}{8}, \frac{11}{12}, -\frac{2}{3}, \frac{5}{24}, \frac{5}{24}, \frac{1}{4}, \frac{1}{3})$ $+ \frac{19}{12}e^4 \otimes e_5$	{123489, 123589, 146789, 156789, 234678, 235678, 48, 58, 123489, 123589, 146789, 156789, 234678, 235678, 48, 58}
941:228	$0, 0, 0, 0, 0, -\frac{1}{33}\sqrt{741}e^{12}, \frac{19}{33}e^{13}, \frac{4}{33}\sqrt{38}e^{24} + \frac{1}{33}\sqrt{494}e^{35},$ $\frac{1}{33}\sqrt{741}e^{26} + \frac{19}{33}e^{37}$	$(-\frac{2}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{3}{11}, -\frac{3}{11}, \frac{4}{33}, \frac{4}{33}, \frac{1}{33}, \frac{14}{33})$ $+ \frac{1}{33}\sqrt{1102}e^2 \otimes e_4$	{123579, 129, 1345679, 1469, 2356, 267, 345, 47, 123579, 129, 1345679, 1469, 2356, 267, 345, 47}
941:228	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{741}e^{12}, \frac{19}{33}e^{13}, \frac{4}{33}\sqrt{38}e^{24} + \frac{1}{33}\sqrt{494}e^{35},$ $\frac{1}{33}\sqrt{741}e^{26} + \frac{19}{33}e^{37}$	$(-\frac{2}{11}, \frac{10}{33}, \frac{10}{33}, -\frac{3}{11}, -\frac{3}{11}, \frac{4}{33}, \frac{4}{33}, \frac{1}{33}, \frac{14}{33})$ $+ \frac{1}{33}\sqrt{1102}e^2 \otimes e_4$	{123579, 129, 1345679, 1469, 2356, 267, 345, 47, 123579, 129, 1345679, 1469, 2356, 267, 345, 47}
941:228	$0, 0, 0, 0, 0, -\frac{21}{293}\sqrt{65}e^{12}, \frac{21}{293}\sqrt{65}e^{13}, \frac{7}{293}\sqrt{590}e^{24} + \frac{7}{293}\sqrt{590}e^{35},$ $\frac{7}{293}\sqrt{15}e^{26} + \frac{7}{293}\sqrt{15}e^{37}$	$(\frac{176}{293}, -\frac{63}{293}, -\frac{63}{293}, -\frac{6}{293}, -\frac{6}{293}, \frac{113}{293}, \frac{113}{293}, -\frac{69}{293}, \frac{50}{293})$ $+ \frac{140}{293}\sqrt{6}e^1 \otimes e_8$	{12345, 1247, 167, 236789, 25689, 4589, 12345, 1247, 167, 236789, 25689, 4589}
941:228	$0, 0, 0, 0, 0, \frac{21}{293}\sqrt{65}e^{12}, \frac{21}{293}\sqrt{65}e^{13}, \frac{7}{293}\sqrt{590}e^{24} + \frac{7}{293}\sqrt{590}e^{35},$ $\frac{7}{293}\sqrt{15}e^{26} + \frac{7}{293}\sqrt{15}e^{37}$	$(\frac{176}{293}, -\frac{63}{293}, -\frac{63}{293}, -\frac{6}{293}, -\frac{6}{293}, \frac{113}{293}, \frac{113}{293}, -\frac{69}{293}, \frac{50}{293})$ $+ \frac{140}{293}\sqrt{6}e^1 \otimes e_8$	{12345, 1247, 167, 236789, 25689, 4589, 12345, 1247, 167, 236789, 25689, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:228	$0, 0, 0, 0, 0, -\frac{9}{283}\sqrt{247e^{12}}, \frac{9}{283}\sqrt{55e^{13}}, \frac{18}{283}\sqrt{30e^{24}} + \frac{9}{283}\sqrt{182e^{35}},$ $\frac{9}{283}\sqrt{195e^{26}} + \frac{9}{283}\sqrt{107e^{37}}$	$(\frac{36}{283}, \frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{54}{283}, \frac{54}{283}, -\frac{45}{283}, \frac{72}{283})$ $+ \frac{36}{283}\sqrt{13e^1} \otimes e_8 + \frac{9}{283}\sqrt{302e^2} \otimes e_4$	{123579, 129, 1345679, 1469, 123579, 129, 1345679, 1469}
941:228	$0, 0, 0, 0, 0, \frac{9}{283}\sqrt{247e^{12}}, \frac{9}{283}\sqrt{55e^{13}}, \frac{18}{283}\sqrt{30e^{24}} + \frac{9}{283}\sqrt{182e^{35}},$ $\frac{9}{283}\sqrt{195e^{26}} + \frac{9}{283}\sqrt{107e^{37}}$	$(\frac{36}{283}, \frac{18}{283}, \frac{18}{283}, -\frac{63}{283}, -\frac{63}{283}, \frac{54}{283}, \frac{54}{283}, -\frac{45}{283}, \frac{72}{283})$ $+ \frac{36}{283}\sqrt{13e^1} \otimes e_8 + \frac{9}{283}\sqrt{302e^2} \otimes e_4$	{123579, 129, 1345679, 1469, 123579, 129, 1345679, 1469}
941:228	$0, 0, 0, 0, 0, -\frac{6}{181}\sqrt{14e^{12}}, \frac{3}{181}\sqrt{546e^{13}}, \frac{6}{181}\sqrt{238e^{24}} + \frac{18}{181}\sqrt{7e^{35}},$ $\frac{3}{181}\sqrt{14e^{26}} + \frac{42}{181}\sqrt{3e^{37}}$	$(\frac{60}{181}, -\frac{42}{181}, -\frac{42}{181}, \frac{39}{181}, \frac{39}{181}, \frac{18}{181}, \frac{18}{181}, -\frac{3}{181}, -\frac{24}{181})$ $+ \frac{6}{181}\sqrt{259e^1} \otimes e_8 + \frac{6}{181}\sqrt{301e^4} \otimes e_9$	{139, 1579, 345678, 468, 139, 1579, 345678, 468}
941:228	$0, 0, 0, 0, 0, \frac{6}{181}\sqrt{14e^{12}}, \frac{3}{181}\sqrt{546e^{13}}, \frac{6}{181}\sqrt{238e^{24}} + \frac{18}{181}\sqrt{7e^{35}},$ $\frac{3}{181}\sqrt{14e^{26}} + \frac{42}{181}\sqrt{3e^{37}}$	$(\frac{60}{181}, -\frac{42}{181}, -\frac{42}{181}, \frac{39}{181}, \frac{39}{181}, \frac{18}{181}, \frac{18}{181}, -\frac{3}{181}, -\frac{24}{181})$ $+ \frac{6}{181}\sqrt{259e^1} \otimes e_8 + \frac{6}{181}\sqrt{301e^4} \otimes e_9$	{139, 1579, 345678, 468, 139, 1579, 345678, 468}
941:228	$0, 0, 0, 0, 0, -\frac{1}{129}\sqrt{339e^{12}}, \frac{1}{129}\sqrt{219e^{13}}, \frac{2}{43}\sqrt{10e^{24}} + \frac{1}{129}\sqrt{366e^{35}},$ $\frac{1}{43}\sqrt{47e^{26}} + \frac{1}{43}\sqrt{15e^{37}}$	$(-\frac{4}{43}, \frac{2}{43}, \frac{2}{43}, \frac{1}{43}, \frac{1}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{390e^2} \otimes e_4 + \frac{4}{129}\sqrt{21e^5} \otimes e_9$	{129, 1469, 2356, 345, 129, 1469, 2356, 345}
941:228	$0, 0, 0, 0, 0, \frac{1}{129}\sqrt{339e^{12}}, \frac{1}{129}\sqrt{219e^{13}}, \frac{2}{43}\sqrt{10e^{24}} + \frac{1}{129}\sqrt{366e^{35}},$ $\frac{1}{43}\sqrt{47e^{26}} + \frac{1}{43}\sqrt{15e^{37}}$	$(-\frac{4}{43}, \frac{2}{43}, \frac{2}{43}, \frac{1}{43}, \frac{1}{43}, -\frac{2}{43}, -\frac{2}{43}, \frac{3}{43}, 0)$ $+ \frac{1}{129}\sqrt{390e^2} \otimes e_4 + \frac{4}{129}\sqrt{21e^5} \otimes e_9$	{129, 1469, 2356, 345, 129, 1469, 2356, 345}
941:231	$0, 0, 0, 0, 0, -\frac{5}{52}\sqrt{10e^{12}}, \frac{5}{52}\sqrt{10e^{13}}, \frac{5}{78}\sqrt{30e^{45}},$ $\frac{5}{52}\sqrt{26e^{14}} + \frac{5}{156}\sqrt{33e^{26}} + \frac{5}{156}\sqrt{33e^{37}}$	$(\frac{5}{26}, \frac{5}{104}, \frac{5}{104}, \frac{5}{52}, -\frac{5}{13}, \frac{25}{104}, \frac{25}{104}, -\frac{15}{52}, \frac{15}{52})$ $+ \frac{5}{52}\sqrt{38e^4} \otimes e_5 + \frac{5}{78}\sqrt{123e^1} \otimes e_8$	{2346789, 24689, 489, 2346789, 24689, 489}
941:231	$0, 0, 0, 0, 0, \frac{5}{52}\sqrt{10e^{12}}, \frac{5}{52}\sqrt{10e^{13}}, \frac{5}{78}\sqrt{30e^{45}},$ $\frac{5}{52}\sqrt{26e^{14}} + \frac{5}{156}\sqrt{33e^{26}} + \frac{5}{156}\sqrt{33e^{37}}$	$(\frac{5}{26}, \frac{5}{104}, \frac{5}{104}, \frac{5}{52}, -\frac{5}{13}, \frac{25}{104}, \frac{25}{104}, -\frac{15}{52}, \frac{15}{52})$ $+ \frac{5}{52}\sqrt{38e^4} \otimes e_5 + \frac{5}{78}\sqrt{123e^1} \otimes e_8$	{2346789, 24689, 489, 2346789, 24689, 489}
941:231	$0, 0, 0, 0, 0, -\frac{3}{23}\sqrt{22e^{12}}, \frac{3}{23}\sqrt{22e^{13}}, \frac{2}{23}\sqrt{66e^{45}},$ $\frac{6}{23}e^{14} + \frac{1}{23}\sqrt{30e^{26}} + \frac{1}{23}\sqrt{30e^{37}}$	$(\frac{11}{23}, -\frac{2}{23}, -\frac{2}{23}, -\frac{4}{23}, -\frac{3}{23}, \frac{9}{23}, \frac{9}{23}, -\frac{7}{23}, \frac{7}{23})$ $+ \frac{4}{23}\sqrt{42e^1} \otimes e_8$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, \frac{3}{23}\sqrt{22e^{12}}, \frac{3}{23}\sqrt{22e^{13}}, \frac{2}{23}\sqrt{66e^{45}},$ $\frac{6}{23}e^{14} + \frac{1}{23}\sqrt{30e^{26}} + \frac{1}{23}\sqrt{30e^{37}}$	$(\frac{11}{23}, -\frac{2}{23}, -\frac{2}{23}, -\frac{4}{23}, -\frac{3}{23}, \frac{9}{23}, \frac{9}{23}, -\frac{7}{23}, \frac{7}{23})$ $+ \frac{4}{23}\sqrt{42e^1} \otimes e_8$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{8}\sqrt{10e^{45}},$ $\frac{1}{8}\sqrt{2e^{14}} + \frac{1}{4}e^{26} + \frac{1}{4}e^{37}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14e^1} \otimes e_8 - \frac{1}{8}\sqrt{14e^5} \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{8}\sqrt{10e^{45}},$ $\frac{1}{8}\sqrt{2e^{14}} + \frac{1}{4}e^{26} + \frac{1}{4}e^{37}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14e^1} \otimes e_8 - \frac{1}{8}\sqrt{14e^5} \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{8}\sqrt{10e^{45}},$ $\frac{1}{8}\sqrt{2e^{14}} + \frac{1}{4}e^{26} + \frac{1}{4}e^{37}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14e^1} \otimes e_8 + \frac{1}{8}\sqrt{14e^5} \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{8}\sqrt{10e^{45}},$ $\frac{1}{8}\sqrt{2e^{14}} + \frac{1}{4}e^{26} + \frac{1}{4}e^{37}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{8}\sqrt{14e^1} \otimes e_8 + \frac{1}{8}\sqrt{14e^5} \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, -\frac{2}{101}\sqrt{665e^{12}}, \frac{6}{101}\sqrt{7e^{13}}, \frac{14}{101}\sqrt{14e^{45}},$ $\frac{4}{101}\sqrt{161e^{14}} + \frac{2}{101}\sqrt{665e^{26}} + \frac{6}{101}\sqrt{7e^{37}}$	$(\frac{9}{101}, \frac{6}{101}, \frac{6}{101}, \frac{12}{101}, -\frac{34}{101}, \frac{15}{101}, \frac{15}{101}, -\frac{22}{101}, \frac{21}{101})$ $+ \frac{4}{101}\sqrt{301e^2} \otimes e_8$	{123459, 124579, 134689, 146789, 234567, 2456, 3478, 48, 123459, 124579, 134689, 146789, 234567, 2456, 3478, 48}
941:231	$0, 0, 0, 0, 0, \frac{2}{101}\sqrt{665e^{12}}, \frac{6}{101}\sqrt{7e^{13}}, \frac{14}{101}\sqrt{14e^{45}},$ $\frac{4}{101}\sqrt{161e^{14}} + \frac{2}{101}\sqrt{665e^{26}} + \frac{6}{101}\sqrt{7e^{37}}$	$(\frac{9}{101}, \frac{6}{101}, \frac{6}{101}, \frac{12}{101}, -\frac{34}{101}, \frac{15}{101}, \frac{15}{101}, -\frac{22}{101}, \frac{21}{101})$ $+ \frac{4}{101}\sqrt{301e^2} \otimes e_8$	{123459, 124579, 134689, 146789, 234567, 2456, 3478, 48, 123459, 124579, 134689, 146789, 234567, 2456, 3478, 48}
941:231	$0, 0, 0, 0, 0, -\frac{1}{23}\sqrt{30e^{12}}, \frac{1}{23}\sqrt{30e^{13}}, \frac{2}{23}\sqrt{66e^{45}},$ $\frac{6}{23}e^{14} + \frac{3}{23}\sqrt{22e^{26}} + \frac{3}{23}\sqrt{22e^{37}}$	$(\frac{5}{69}, -\frac{2}{23}, -\frac{2}{23}, -\frac{4}{23}, \frac{47}{69}, -\frac{1}{69}, -\frac{1}{69}, \frac{35}{69}, -\frac{7}{69})$ $+ \frac{4}{23}\sqrt{42e^5} \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:231	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{30}e^{12}, \frac{1}{23}\sqrt{30}e^{13}, \frac{2}{23}\sqrt{66}e^{45},$ $\frac{6}{23}e^{14} + \frac{3}{23}\sqrt{22}e^{26} + \frac{3}{23}\sqrt{22}e^{37}$	$(\frac{5}{69}, -\frac{2}{23}, -\frac{2}{23}, -\frac{4}{23}, \frac{47}{69}, -\frac{1}{69}, -\frac{1}{69}, \frac{35}{69}, -\frac{7}{69})$ $+ \frac{4}{23}\sqrt{42}e^5 \otimes e_9$	{1239, 1279, 1679, 235678, 2568, 58, 1239, 1279, 1679, 235678, 2568, 58}
941:231	$0, 0, 0, 0, 0, -\frac{4}{1013}\sqrt{310}e^{12}, \frac{20}{1013}e^{13}, \frac{4}{1013}\sqrt{429}e^{45},$ $\frac{4}{1013}\sqrt{274}e^{14} + \frac{4}{1013}\sqrt{393}e^{26} + \frac{4}{1013}\sqrt{3}e^{37}$	$(\frac{50}{1013}, -\frac{22}{1013}, -\frac{22}{1013}, -\frac{44}{1013}, \frac{14}{1013}, \frac{28}{1013}, \frac{28}{1013}, -\frac{30}{1013}, \frac{6}{1013})$ $+ \frac{4}{1013}\sqrt{570}e^2 \otimes e_8 + \frac{8}{1013}\sqrt{83}e^5 \otimes e_9$	{134689, 146789, 234567, 2456, 134689, 146789, 234567, 2456}
941:231	$0, 0, 0, 0, 0, \frac{4}{1013}\sqrt{310}e^{12}, \frac{20}{1013}e^{13}, \frac{4}{1013}\sqrt{429}e^{45},$ $\frac{4}{1013}\sqrt{274}e^{14} + \frac{4}{1013}\sqrt{393}e^{26} + \frac{4}{1013}\sqrt{3}e^{37}$	$(\frac{50}{1013}, -\frac{22}{1013}, -\frac{22}{1013}, -\frac{44}{1013}, \frac{14}{1013}, \frac{28}{1013}, \frac{28}{1013}, -\frac{30}{1013}, \frac{6}{1013})$ $+ \frac{4}{1013}\sqrt{570}e^2 \otimes e_8 + \frac{8}{1013}\sqrt{83}e^5 \otimes e_9$	{134689, 146789, 234567, 2456, 134689, 146789, 234567, 2456}
941:231	$0, 0, 0, 0, 0, -\frac{2}{17}\sqrt{21}e^{12}, \frac{2}{17}\sqrt{3}e^{13}, \frac{2}{17}\sqrt{22}e^{45},$ $\frac{4}{17}\sqrt{6}e^{14} + \frac{2}{17}\sqrt{21}e^{26} + \frac{2}{17}\sqrt{3}e^{37}$	$(\frac{3}{17}, 0, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{12}{17}e^2 \otimes e_8 + \frac{4}{17}\sqrt{2}e^4 \otimes e_5$	{123459, 124579, 234567, 2456, 123459, 124579, 234567, 2456}
941:231	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{21}e^{12}, \frac{2}{17}\sqrt{3}e^{13}, \frac{2}{17}\sqrt{22}e^{45},$ $\frac{4}{17}\sqrt{6}e^{14} + \frac{2}{17}\sqrt{21}e^{26} + \frac{2}{17}\sqrt{3}e^{37}$	$(\frac{3}{17}, 0, 0, 0, -\frac{4}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+ \frac{12}{17}e^2 \otimes e_8 + \frac{4}{17}\sqrt{2}e^4 \otimes e_5$	{123459, 124579, 234567, 2456, 123459, 124579, 234567, 2456}
941:231	$0, 0, 0, 0, 0, -\frac{1}{86}\sqrt{1590}e^{12}, \frac{1}{86}\sqrt{1590}e^{13}, \frac{1}{43}\sqrt{530}e^{45},$ $\frac{1}{43}\sqrt{2226}e^{14} + \frac{1}{86}\sqrt{1590}e^{26} + \frac{1}{86}\sqrt{1590}e^{37}$	$(-\frac{15}{86}, \frac{27}{86}, \frac{27}{86}, \frac{27}{43}, -\frac{26}{43}, \frac{6}{43}, \frac{6}{43}, \frac{1}{43}, \frac{39}{86})$ $+ \frac{1}{43}\sqrt{3922}e^4 \otimes e_5$	{1235679, 12569, 159, 235, 257, 567, 1235679, 12569, 159, 235, 257, 567}
941:231	$0, 0, 0, 0, 0, \frac{1}{86}\sqrt{1590}e^{12}, \frac{1}{86}\sqrt{1590}e^{13}, \frac{1}{43}\sqrt{530}e^{45},$ $\frac{1}{43}\sqrt{2226}e^{14} + \frac{1}{86}\sqrt{1590}e^{26} + \frac{1}{86}\sqrt{1590}e^{37}$	$(-\frac{15}{86}, \frac{27}{86}, \frac{27}{86}, \frac{27}{43}, -\frac{26}{43}, \frac{6}{43}, \frac{6}{43}, \frac{1}{43}, \frac{39}{86})$ $+ \frac{1}{43}\sqrt{3922}e^4 \otimes e_5$	{1235679, 12569, 159, 235, 257, 567, 1235679, 12569, 159, 235, 257, 567}
941:232	$0, 0, 0, 0, 0, \frac{84}{3593}\sqrt{5}e^{12}, \frac{56}{3593}\sqrt{194}e^{13}, \frac{28}{3593}\sqrt{1285}e^{45},$ $\frac{28}{3593}\sqrt{30}e^{16} + \frac{28}{3593}\sqrt{262}e^{24} + \frac{28}{3593}\sqrt{1295}e^{37}$	$(-\frac{322}{3593}, \frac{686}{3593}, \frac{182}{3593}, -\frac{644}{3593}, \frac{434}{3593}, \frac{364}{3593}, -\frac{140}{3593}, -\frac{210}{3593}, \frac{42}{3593})$ $+ \frac{28}{3593}\sqrt{1874}e^3 \otimes e_8 + \frac{56}{3593}\sqrt{335}e^5 \otimes e_9$	{1246789, 34567}
941:232	$0, 0, 0, 0, 0, \frac{8}{35}\sqrt{11}e^{12}, \frac{8}{35}\sqrt{2}e^{13}, \frac{8}{105}\sqrt{93}e^{45},$ $\frac{16}{105}\sqrt{3}e^{16} + \frac{16}{35}e^{24} + \frac{8}{105}\sqrt{3}e^{37}$	$(-\frac{4}{35}, \frac{4}{7}, \frac{8}{35}, -\frac{8}{35}, -\frac{4}{35}, \frac{16}{35}, \frac{4}{35}, -\frac{12}{35}, \frac{12}{35})$ $+ \frac{8}{105}\sqrt{258}e^2 \otimes e_8$	{135678, 1568, 2369, 2679}
941:232	$0, 0, 0, 0, 0, \frac{40}{2851}\sqrt{1337}e^{12}, \frac{240}{2851}\sqrt{2}e^{13}, \frac{40}{2851}\sqrt{1361}e^{45},$ $\frac{40}{2851}\sqrt{1298}e^{16} + \frac{160}{2851}\sqrt{77}e^{24} + \frac{120}{2851}\sqrt{13}e^{37}$	$(\frac{144}{2851}, \frac{312}{2851}, \frac{228}{2851}, \frac{288}{2851}, -\frac{944}{2851}, \frac{456}{2851}, \frac{372}{2851}, -\frac{656}{2851}, \frac{600}{2851})$ $+ \frac{40}{2851}\sqrt{2434}e^1 \otimes e_8$	{123459, 124579, 3478, 48}
941:232	$0, 0, 0, 0, 0, \frac{8}{2907}\sqrt{12709}e^{12}, \frac{8}{2907}\sqrt{9230}e^{13}, \frac{8}{969}\sqrt{7313}e^{45},$ $\frac{16}{2907}\sqrt{13206}e^{16} + \frac{8}{969}\sqrt{994}e^{24} + \frac{8}{2907}\sqrt{48209}e^{37}$	$(-\frac{260}{2907}, \frac{4}{51}, -\frac{16}{2907}, -\frac{520}{2907}, \frac{220}{323}, -\frac{32}{2907}, -\frac{92}{969}, \frac{1460}{2907}, -\frac{292}{2907})$ $+ \frac{8}{2907}\sqrt{168554}e^5 \otimes e_9$	{135678, 1568, 2369, 2679}
941:232	$0, 0, 0, 0, 0, \frac{4}{2791}\sqrt{15485}e^{12}, \frac{8}{2791}\sqrt{46129}e^{13}, \frac{20}{2791}\sqrt{7009}e^{45},$ $\frac{4}{2791}\sqrt{83130}e^{16} + \frac{4}{2791}\sqrt{70742}e^{24} + \frac{4}{2791}\sqrt{202935}e^{37}$	$(-\frac{114}{2791}, \frac{942}{2791}, \frac{414}{2791}, -\frac{228}{2791}, -\frac{662}{2791}, \frac{828}{2791}, \frac{300}{2791}, -\frac{890}{2791}, \frac{714}{2791})$ $+ \frac{4}{2791}\sqrt{387614}e^3 \otimes e_8$	{1234569, 1246789, 34567, 468}
941:232	$0, 0, 0, 0, 0, \frac{8}{887}\sqrt{70}e^{12}, \frac{4}{887}\sqrt{11}e^{13}, \frac{4}{887}\sqrt{374}e^{45},$ $\frac{4}{887}\sqrt{347}e^{16} + \frac{4}{887}\sqrt{235}e^{24} + \frac{8}{887}\sqrt{23}e^{37}$	$(-\frac{22}{887}, \frac{50}{887}, \frac{14}{887}, -\frac{44}{887}, \frac{14}{887}, \frac{28}{887}, -\frac{8}{887}, -\frac{30}{887}, \frac{6}{887})$ $- \frac{4}{887}\sqrt{293}e^5 \otimes e_9 + \frac{4}{887}\sqrt{499}e^1 \otimes e_8$	{134567, 1456, 234689, 246789}
941:232	$0, 0, 0, 0, 0, \frac{8}{887}\sqrt{70}e^{12}, \frac{4}{887}\sqrt{11}e^{13}, \frac{4}{887}\sqrt{374}e^{45},$ $\frac{4}{887}\sqrt{347}e^{16} + \frac{4}{887}\sqrt{235}e^{24} + \frac{8}{887}\sqrt{23}e^{37}$	$(-\frac{22}{887}, \frac{50}{887}, \frac{14}{887}, -\frac{44}{887}, \frac{14}{887}, \frac{28}{887}, -\frac{8}{887}, -\frac{30}{887}, \frac{6}{887})$ $+ \frac{4}{887}\sqrt{293}e^5 \otimes e_9 + \frac{4}{887}\sqrt{499}e^1 \otimes e_8$	{134567, 1456, 234689, 246789}
941:232	$0, 0, 0, 0, 0, \frac{20}{401}\sqrt{35}e^{12}, \frac{20}{401}\sqrt{10}e^{13}, \frac{20}{1203}\sqrt{345}e^{45},$ $\frac{20}{1203}\sqrt{222}e^{16} + \frac{40}{401}\sqrt{31}e^{24} + \frac{20}{1203}\sqrt{177}e^{37}$	$(\frac{20}{401}, \frac{80}{401}, \frac{50}{401}, \frac{40}{401}, -\frac{160}{401}, \frac{100}{401}, \frac{70}{401}, -\frac{120}{401}, \frac{120}{401})$ $+ \frac{180}{401}\sqrt{2}e^4 \otimes e_5 + \frac{40}{1203}\sqrt{447}e^2 \otimes e_8$	{34789, 489}
941:232	$0, 0, 0, 0, 0, \frac{7}{363}\sqrt{165}e^{12}, \frac{7}{363}\sqrt{77}e^{13}, \frac{7}{121}\sqrt{65}e^{45},$ $\frac{21}{121}\sqrt{5}e^{16} + \frac{14}{363}\sqrt{3}e^{24} + \frac{28}{121}\sqrt{5}e^{37}$	$(\frac{7}{242}, \frac{49}{242}, \frac{14}{121}, \frac{7}{121}, -\frac{42}{121}, \frac{28}{121}, \frac{35}{242}, -\frac{35}{121}, \frac{63}{242})$ $+ \frac{7}{363}\sqrt{1479}e^3 \otimes e_8 + \frac{7}{363}\sqrt{435}e^4 \otimes e_5$	{1246789, 468}
941:232	$0, 0, 0, 0, 0, \frac{4}{87}\sqrt{39}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{318}e^{45},$ $\frac{4}{87}\sqrt{39}e^{16} + \frac{2}{29}\sqrt{10}e^{24} + \frac{4}{87}\sqrt{30}e^{37}$	$(-\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, \frac{4}{29}, -\frac{2}{29}, 0, 0)$ $+ \frac{2}{87}\sqrt{438}e^2 \otimes e_8 + \frac{6}{29}\sqrt{6}e^5 \otimes e_9$	{135678, 1568, 2369, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 232	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{318}e^{45},$ $\frac{4}{87}\sqrt{39}e^{16} + \frac{2}{29}\sqrt{10}e^{24} + \frac{4}{87}\sqrt{30}e^{37}$	$(-\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, \frac{4}{29}, -\frac{2}{29}, 0, 0)$ $+\frac{2}{87}\sqrt{438}e^2 \otimes e_8 - \frac{6}{29}\sqrt{6}e^5 \otimes e_9$	{135678, 1568, 2369, 2679}
941: 232	$0, 0, 0, 0, 0, \frac{12}{2527}\sqrt{17813}e^{12}, \frac{4}{2527}\sqrt{147810}e^{13}, \frac{4}{2527}\sqrt{111047}e^{45},$ $\frac{4}{2527}\sqrt{138714}e^{16} + \frac{24}{2527}\sqrt{13265}e^{24} + \frac{12}{2527}\sqrt{7201}e^{37}$	$(\frac{780}{2527}, -\frac{24}{133}, \frac{162}{2527}, \frac{1560}{2527}, -\frac{1472}{2527}, \frac{324}{2527}, \frac{942}{2527}, \frac{88}{2527}, \frac{1104}{2527})$ $+\frac{4}{2527}\sqrt{813334}e^4 \otimes e_5$	{135, 157, 23579, 259}
941: 234	$0, 0, 0, 0, 0, -\frac{11}{268}\sqrt{151}e^{12}, \frac{11}{268}\sqrt{151}e^{13}, \frac{11}{268}\sqrt{170}e^{23},$ $\frac{11}{268}\sqrt{102}e^{14} + \frac{11}{268}\sqrt{134}e^{26} + \frac{11}{268}\sqrt{134}e^{37}$	$(\frac{33}{134}, -\frac{55}{536}, -\frac{55}{536}, -\frac{55}{268}, \frac{33}{67}, \frac{77}{536}, \frac{77}{536}, -\frac{55}{268}, \frac{11}{268})$ $+\frac{11}{134}\sqrt{51}e^5 \otimes e_9 + \frac{11}{67}\sqrt{17}e^1 \otimes e_4$	{2345678, 2456, 458, 2345678, 2456, 458}
941: 234	$0, 0, 0, 0, 0, \frac{11}{268}\sqrt{151}e^{12}, \frac{11}{268}\sqrt{151}e^{13}, \frac{11}{268}\sqrt{170}e^{23},$ $\frac{11}{268}\sqrt{102}e^{14} + \frac{11}{268}\sqrt{134}e^{26} + \frac{11}{268}\sqrt{134}e^{37}$	$(\frac{33}{134}, -\frac{55}{536}, -\frac{55}{536}, -\frac{55}{268}, \frac{33}{67}, \frac{77}{536}, \frac{77}{536}, -\frac{55}{268}, \frac{11}{268})$ $+\frac{11}{134}\sqrt{51}e^5 \otimes e_9 + \frac{11}{67}\sqrt{17}e^1 \otimes e_4$	{2345678, 2456, 458, 2345678, 2456, 458}
941: 234	$0, 0, 0, 0, 0, -\frac{5}{37}\sqrt{19}e^{12}, \frac{5}{37}\sqrt{19}e^{13}, \frac{10}{37}\sqrt{2}e^{23},$ $\frac{5}{37}\sqrt{15}e^{14} + \frac{10}{37}\sqrt{2}e^{26} + \frac{10}{37}\sqrt{2}e^{37}$	$(\frac{15}{37}, -\frac{5}{37}, -\frac{5}{37}, -\frac{10}{37}, \frac{15}{37}, \frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{5}{37})$ $+\frac{10}{37}\sqrt{11}e^1 \otimes e_4 + \frac{5}{37}\sqrt{21}e^5 \otimes e_8$	{234678, 2456, 48, 234678, 2456, 48}
941: 234	$0, 0, 0, 0, 0, \frac{5}{37}\sqrt{19}e^{12}, \frac{5}{37}\sqrt{19}e^{13}, \frac{10}{37}\sqrt{2}e^{23},$ $\frac{5}{37}\sqrt{15}e^{14} + \frac{10}{37}\sqrt{2}e^{26} + \frac{10}{37}\sqrt{2}e^{37}$	$(\frac{15}{37}, -\frac{5}{37}, -\frac{5}{37}, -\frac{10}{37}, \frac{15}{37}, \frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{5}{37})$ $+\frac{10}{37}\sqrt{11}e^1 \otimes e_4 + \frac{5}{37}\sqrt{21}e^5 \otimes e_8$	{234678, 2456, 48, 234678, 2456, 48}
941: 234	$0, 0, 0, 0, 0, -\frac{19}{1165}\sqrt{982}e^{12}, \frac{38}{1165}\sqrt{118}e^{13}, \frac{19}{1165}\sqrt{374}e^{23},$ $\frac{19}{1165}\sqrt{714}e^{14} + \frac{19}{1165}\sqrt{710}e^{26} + \frac{38}{233}\sqrt{2}e^{37}$	$(\frac{57}{233}, -\frac{38}{1165}, -\frac{38}{1165}, -\frac{76}{1165}, -\frac{399}{1165}, \frac{247}{1165}, \frac{247}{1165}, -\frac{76}{1165}, \frac{209}{1165})$ $+\frac{152}{1165}\sqrt{17}e^1 \otimes e_4 + \frac{38}{1165}\sqrt{255}e^2 \otimes e_5$	{234678, 246, 3457, 458, 234678, 246, 3457, 458}
941: 234	$0, 0, 0, 0, 0, \frac{19}{1165}\sqrt{982}e^{12}, \frac{38}{1165}\sqrt{118}e^{13}, \frac{19}{1165}\sqrt{374}e^{23},$ $\frac{19}{1165}\sqrt{714}e^{14} + \frac{19}{1165}\sqrt{710}e^{26} + \frac{38}{233}\sqrt{2}e^{37}$	$(\frac{57}{233}, -\frac{38}{1165}, -\frac{38}{1165}, -\frac{76}{1165}, -\frac{399}{1165}, \frac{247}{1165}, \frac{247}{1165}, -\frac{76}{1165}, \frac{209}{1165})$ $+\frac{152}{1165}\sqrt{17}e^1 \otimes e_4 + \frac{38}{1165}\sqrt{255}e^2 \otimes e_5$	{234678, 246, 3457, 458, 234678, 246, 3457, 458}
941: 234	$0, 0, 0, 0, 0, -\frac{2}{7}\sqrt{5}e^{12}, \frac{2}{7}\sqrt{5}e^{13}, \frac{8}{7}e^{23},$ $\frac{4}{7}\sqrt{2}e^{14} + \frac{2}{7}\sqrt{5}e^{26} + \frac{2}{7}\sqrt{5}e^{37}$	$(\frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, \frac{1}{7}, 1, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{14})$ $+\frac{4}{7}\sqrt{6}e^5 \otimes e_8$	{1235679, 12689, 159, 235, 278, 567, 1235679, 12689, 159, 235, 278, 567}
941: 234	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{2}{7}\sqrt{5}e^{13}, \frac{8}{7}e^{23},$ $\frac{4}{7}\sqrt{2}e^{14} + \frac{2}{7}\sqrt{5}e^{26} + \frac{2}{7}\sqrt{5}e^{37}$	$(\frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{7}, 1, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{14})$ $+\frac{4}{7}\sqrt{6}e^5 \otimes e_8$	{1235679, 12689, 159, 235, 278, 567, 1235679, 12689, 159, 235, 278, 567}
941: 234	$0, 0, 0, 0, 0, -\frac{1}{40}\sqrt{1147}e^{12}, \frac{1}{40}\sqrt{1147}e^{13}, \frac{1}{40}\sqrt{1054}e^{23},$ $\frac{1}{40}\sqrt{1054}e^{14} + \frac{1}{20}\sqrt{155}e^{26} + \frac{1}{20}\sqrt{155}e^{37}$	$(\frac{1}{2}, -\frac{11}{80}, -\frac{11}{80}, -\frac{11}{40}, \frac{3}{20}, \frac{29}{80}, \frac{29}{80}, -\frac{11}{40}, \frac{9}{40})$ $+\frac{1}{20}\sqrt{527}e^1 \otimes e_4$	{2345678, 234678, 2456, 246, 458, 48, 2345678, 234678, 2456, 246, 458, 48}
941: 234	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{1147}e^{12}, \frac{1}{40}\sqrt{1147}e^{13}, \frac{1}{40}\sqrt{1054}e^{23},$ $\frac{1}{40}\sqrt{1054}e^{14} + \frac{1}{20}\sqrt{155}e^{26} + \frac{1}{20}\sqrt{155}e^{37}$	$(\frac{1}{2}, -\frac{11}{80}, -\frac{11}{80}, \frac{11}{40}, \frac{3}{20}, \frac{29}{80}, \frac{29}{80}, -\frac{11}{40}, \frac{9}{40})$ $+\frac{1}{20}\sqrt{527}e^1 \otimes e_4$	{2345678, 234678, 2456, 246, 458, 48, 2345678, 234678, 2456, 246, 458, 48}
941: 234	$0, 0, 0, 0, 0, -\frac{1}{121}\sqrt{8686}e^{12}, \frac{4}{121}\sqrt{101}e^{13}, \frac{1}{121}\sqrt{3434}e^{23},$ $\frac{1}{121}\sqrt{3434}e^{14} + \frac{1}{121}\sqrt{8686}e^{26} + \frac{4}{121}\sqrt{101}e^{37}$	$(\frac{1}{121}, \frac{18}{121}, \frac{18}{121}, \frac{36}{121}, -\frac{83}{121}, \frac{19}{121}, \frac{19}{121}, \frac{36}{121}, \frac{37}{121})$ $+\frac{2}{121}\sqrt{5151}e^2 \otimes e_5$	{123479, 12489, 13456789, 14569, 2346, 24678, 3458, 457, 123479, 12489, 13456789, 14569, 2346, 24678, 3458, 457}
941: 234	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{8686}e^{12}, \frac{4}{121}\sqrt{101}e^{13}, \frac{1}{121}\sqrt{3434}e^{23},$ $\frac{1}{121}\sqrt{3434}e^{14} + \frac{1}{121}\sqrt{8686}e^{26} + \frac{4}{121}\sqrt{101}e^{37}$	$(\frac{1}{121}, \frac{18}{121}, \frac{18}{121}, \frac{36}{121}, -\frac{83}{121}, \frac{19}{121}, \frac{19}{121}, \frac{36}{121}, \frac{37}{121})$ $+\frac{2}{121}\sqrt{5151}e^2 \otimes e_5$	{123479, 12489, 13456789, 14569, 2346, 24678, 3458, 457, 123479, 12489, 13456789, 14569, 2346, 24678, 3458, 457}
941: 234	$0, 0, 0, 0, 0, -\frac{19}{1165}\sqrt{438}e^{12}, \frac{114}{1165}\sqrt{2}e^{13}, \frac{19}{1165}\sqrt{714}e^{23},$ $\frac{19}{1165}\sqrt{374}e^{14} + \frac{19}{1165}\sqrt{166}e^{26} + \frac{38}{1165}\sqrt{86}e^{37}$	$(\frac{57}{233}, -\frac{38}{1165}, -\frac{38}{1165}, -\frac{76}{1165}, -\frac{399}{1165}, \frac{247}{1165}, \frac{247}{1165}, -\frac{76}{1165}, \frac{209}{1165})$ $+\frac{152}{1165}\sqrt{17}e^1 \otimes e_8 + \frac{38}{1165}\sqrt{255}e^2 \otimes e_5$	{12379, 1569, 2678, 358, 12379, 1569, 2678, 358}
941: 234	$0, 0, 0, 0, 0, \frac{19}{1165}\sqrt{438}e^{12}, \frac{114}{1165}\sqrt{2}e^{13}, \frac{19}{1165}\sqrt{714}e^{23},$ $\frac{19}{1165}\sqrt{374}e^{14} + \frac{19}{1165}\sqrt{166}e^{26} + \frac{38}{1165}\sqrt{86}e^{37}$	$(\frac{57}{233}, -\frac{38}{1165}, -\frac{38}{1165}, -\frac{76}{1165}, -\frac{399}{1165}, \frac{247}{1165}, \frac{247}{1165}, -\frac{76}{1165}, \frac{209}{1165})$ $+\frac{152}{1165}\sqrt{17}e^1 \otimes e_8 + \frac{38}{1165}\sqrt{255}e^2 \otimes e_5$	{12379, 1569, 2678, 358, 12379, 1569, 2678, 358}
941: 234	$0, 0, 0, 0, 0, -\frac{2}{7}\sqrt{5}e^{12}, \frac{2}{7}\sqrt{5}e^{13}, \frac{4}{7}\sqrt{2}e^{23},$ $\frac{8}{7}e^{14} + \frac{2}{7}\sqrt{5}e^{26} + \frac{2}{7}\sqrt{5}e^{37}$	$(-\frac{1}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{7}, -\frac{5}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, \frac{5}{14})$ $+\frac{4}{7}\sqrt{6}e^4 \otimes e_5$	{1235679, 125689, 159, 235, 2578, 567, 1235679, 125689, 159, 235, 2578, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:234	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{2}{7}\sqrt{5}e^{13}, \frac{4}{7}\sqrt{2}e^{23},$ $\frac{8}{7}e^{14} + \frac{2}{7}\sqrt{5}e^{26} + \frac{2}{7}\sqrt{5}e^{37}$	$(-\frac{1}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{7}, -\frac{5}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, \frac{5}{14})$ $+ \frac{4}{7}\sqrt{6}e^4 \otimes e_5$	{1235679, 125689, 159, 235, 2578, 567, 1235679, 125689, 159, 235, 2578, 567}
941:234	$0, 0, 0, 0, 0, -\frac{5}{124}\sqrt{310}e^{12}, \frac{5}{124}\sqrt{310}e^{13}, \frac{5}{124}\sqrt{170}e^{23},$ $\frac{5}{124}\sqrt{170}e^{14} + \frac{5}{124}\sqrt{55}e^{26} + \frac{5}{124}\sqrt{55}e^{37}$	$(\frac{45}{124}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, -\frac{20}{31}, \frac{95}{248}, \frac{95}{248}, \frac{5}{124}, \frac{25}{62})$ $+ \frac{5}{62}\sqrt{255}e^1 \otimes e_5$	{12389, 1279, 16789, 235678, 256, 58, 12389, 1279, 16789, 235678, 256, 58}
941:234	$0, 0, 0, 0, 0, \frac{5}{124}\sqrt{310}e^{12}, \frac{5}{124}\sqrt{310}e^{13}, \frac{5}{124}\sqrt{170}e^{23},$ $\frac{5}{124}\sqrt{170}e^{14} + \frac{5}{124}\sqrt{55}e^{26} + \frac{5}{124}\sqrt{55}e^{37}$	$(\frac{45}{124}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, -\frac{20}{31}, \frac{95}{248}, \frac{95}{248}, \frac{5}{124}, \frac{25}{62})$ $+ \frac{5}{62}\sqrt{255}e^1 \otimes e_5$	{12389, 1279, 16789, 235678, 256, 58, 12389, 1279, 16789, 235678, 256, 58}
941:234	$0, 0, 0, 0, 0, -\frac{5}{124}\sqrt{55}e^{12}, \frac{5}{124}\sqrt{55}e^{13}, \frac{5}{124}\sqrt{170}e^{23},$ $\frac{5}{124}\sqrt{170}e^{14} + \frac{5}{124}\sqrt{310}e^{26} + \frac{5}{124}\sqrt{310}e^{37}$	$(-\frac{3}{62}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, 1, -\frac{7}{248}, -\frac{7}{248}, \frac{5}{124}, -\frac{1}{124})$ $+ \frac{5}{62}\sqrt{255}e^5 \otimes e_9$	{12389, 1279, 16789, 235678, 256, 58, 12389, 1279, 16789, 235678, 256, 58}
941:234	$0, 0, 0, 0, 0, \frac{5}{124}\sqrt{55}e^{12}, \frac{5}{124}\sqrt{55}e^{13}, \frac{5}{124}\sqrt{170}e^{23},$ $\frac{5}{124}\sqrt{170}e^{14} + \frac{5}{124}\sqrt{310}e^{26} + \frac{5}{124}\sqrt{310}e^{37}$	$(-\frac{3}{62}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, 1, -\frac{7}{248}, -\frac{7}{248}, \frac{5}{124}, -\frac{1}{124})$ $+ \frac{5}{62}\sqrt{255}e^5 \otimes e_9$	{12389, 1279, 16789, 235678, 256, 58, 12389, 1279, 16789, 235678, 256, 58}
941:234	$0, 0, 0, 0, 0, -\frac{5}{88}\sqrt{15}e^{12}, \frac{5}{88}\sqrt{15}e^{13}, \frac{5}{88}\sqrt{70}e^{23},$ $\frac{5}{88}\sqrt{94}e^{14} + \frac{5}{88}\sqrt{38}e^{26} + \frac{5}{88}\sqrt{38}e^{37}$	$(\frac{5}{22}, -\frac{5}{176}, -\frac{5}{176}, -\frac{5}{88}, \frac{15}{44}, \frac{35}{176}, \frac{35}{176}, -\frac{5}{88}, \frac{15}{88})$ $+ \frac{15}{44}\sqrt{2}e^4 \otimes e_5 + \frac{5}{44}\sqrt{23}e^1 \otimes e_8$	{1235679, 159, 2578, 1235679, 159, 2578}
941:234	$0, 0, 0, 0, 0, \frac{5}{88}\sqrt{15}e^{12}, \frac{5}{88}\sqrt{15}e^{13}, \frac{5}{88}\sqrt{70}e^{23},$ $\frac{5}{88}\sqrt{94}e^{14} + \frac{5}{88}\sqrt{38}e^{26} + \frac{5}{88}\sqrt{38}e^{37}$	$(\frac{5}{22}, -\frac{5}{176}, -\frac{5}{176}, -\frac{5}{88}, \frac{15}{44}, \frac{35}{176}, \frac{35}{176}, -\frac{5}{88}, \frac{15}{88})$ $+ \frac{15}{44}\sqrt{2}e^4 \otimes e_5 + \frac{5}{44}\sqrt{23}e^1 \otimes e_8$	{1235679, 159, 2578, 1235679, 159, 2578}
941:234	$0, 0, 0, 0, 0, -\frac{1}{40}\sqrt{93}e^{12}, \frac{1}{40}\sqrt{93}e^{13}, \frac{1}{40}\sqrt{1054}e^{23},$ $\frac{1}{40}\sqrt{1054}e^{14} + \frac{1}{40}\sqrt{434}e^{26} + \frac{1}{40}\sqrt{434}e^{37}$	$(\frac{1}{2}, -\frac{11}{80}, -\frac{11}{80}, -\frac{11}{40}, \frac{3}{20}, \frac{29}{80}, \frac{29}{80}, -\frac{11}{40}, \frac{9}{40})$ $+ \frac{1}{20}\sqrt{527}e^1 \otimes e_8$	{1234, 12345, 14567, 1467, 245689, 24689, 1234, 12345, 14567, 1467, 245689, 24689}
941:234	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{93}e^{12}, \frac{1}{40}\sqrt{93}e^{13}, \frac{1}{40}\sqrt{1054}e^{23},$ $\frac{1}{40}\sqrt{1054}e^{14} + \frac{1}{40}\sqrt{434}e^{26} + \frac{1}{40}\sqrt{434}e^{37}$	$(\frac{1}{2}, -\frac{11}{80}, -\frac{11}{80}, -\frac{11}{40}, \frac{3}{20}, \frac{29}{80}, \frac{29}{80}, -\frac{11}{40}, \frac{9}{40})$ $+ \frac{1}{20}\sqrt{527}e^1 \otimes e_8$	{1234, 12345, 14567, 1467, 245689, 24689, 1234, 12345, 14567, 1467, 245689, 24689}
941:234	$0, 0, 0, 0, 0, -\frac{11}{268}\sqrt{15}e^{12}, \frac{11}{268}\sqrt{15}e^{13}, \frac{11}{268}\sqrt{102}e^{23},$ $\frac{11}{268}\sqrt{170}e^{14} + \frac{11}{268}\sqrt{2}e^{26} + \frac{11}{268}\sqrt{2}e^{37}$	$(\frac{33}{134}, -\frac{55}{536}, -\frac{55}{536}, -\frac{55}{268}, \frac{33}{67}, \frac{77}{536}, \frac{77}{536}, -\frac{55}{268}, \frac{11}{268})$ $+ \frac{11}{134}\sqrt{51}e^5 \otimes e_9 + \frac{11}{67}\sqrt{17}e^1 \otimes e_8$	{12345, 14567, 24689, 12345, 14567, 24689}
941:234	$0, 0, 0, 0, 0, \frac{11}{268}\sqrt{15}e^{12}, \frac{11}{268}\sqrt{15}e^{13}, \frac{11}{268}\sqrt{102}e^{23},$ $\frac{11}{268}\sqrt{170}e^{14} + \frac{11}{268}\sqrt{2}e^{26} + \frac{11}{268}\sqrt{2}e^{37}$	$(\frac{33}{134}, -\frac{55}{536}, -\frac{55}{536}, -\frac{55}{268}, \frac{33}{67}, \frac{77}{536}, \frac{77}{536}, -\frac{55}{268}, \frac{11}{268})$ $+ \frac{11}{134}\sqrt{51}e^5 \otimes e_9 + \frac{11}{67}\sqrt{17}e^1 \otimes e_8$	{12345, 14567, 24689, 12345, 14567, 24689}
941:235	$0, 0, 0, 0, 0, \frac{22}{1297}\sqrt{273}e^{12}, \frac{11}{1297}\sqrt{870}e^{13}, \frac{66}{1297}\sqrt{65}e^{23},$ $\frac{22}{1297}\sqrt{435}e^{16} + \frac{22}{1297}\sqrt{399}e^{24} + \frac{66}{1297}\sqrt{11}e^{37}$	$(\frac{198}{1297}, -\frac{176}{1297}, \frac{11}{1297}, \frac{396}{1297}, -\frac{352}{1297}, \frac{22}{1297}, \frac{209}{1297}, -\frac{165}{1297}, \frac{220}{1297})$ $+ \frac{11}{1297}\sqrt{4110}e^1 \otimes e_8 + \frac{22}{1297}\sqrt{723}e^3 \otimes e_5$	{12349, 3478}
941:235	$0, 0, 0, 0, 0, \frac{12}{2039}\sqrt{5773}e^{12}, \frac{24}{2039}\sqrt{4715}e^{13}, \frac{84}{2039}\sqrt{115}e^{23},$ $\frac{12}{2039}\sqrt{9545}e^{16} + \frac{12}{2039}\sqrt{46}e^{24} + \frac{12}{2039}\sqrt{16951}e^{37}$	$(\frac{156}{2039}, \frac{318}{2039}, \frac{237}{2039}, \frac{312}{2039}, -\frac{1419}{2039}, \frac{474}{2039}, \frac{393}{2039}, \frac{555}{2039}, \frac{630}{2039})$ $+ \frac{12}{2039}\sqrt{39767}e^3 \otimes e_5$	{123469, 12456789, 34678, 456}
941:235	$0, 0, 0, 0, 0, \frac{1}{1265}\sqrt{1185}e^{12}, \frac{1}{1265}\sqrt{2910}e^{13}, \frac{1}{1265}\sqrt{5770}e^{23},$ $\frac{1}{1265}\sqrt{5590}e^{16} + \frac{1}{1265}\sqrt{4430}e^{24} + \frac{1}{1265}\sqrt{515}e^{37}$	$(-\frac{1}{253}, -\frac{1}{253}, -\frac{1}{253}, -\frac{2}{253}, \frac{15}{253}, -\frac{2}{253}, -\frac{2}{253}, -\frac{2}{253}, -\frac{3}{253})$ $+ \frac{2}{1265}\sqrt{1655}e^1 \otimes e_8 + \frac{4}{1265}\sqrt{330}e^2 \otimes e_4$	{3458, 348}
941:235	$0, 0, 0, 0, 0, \frac{1}{123}\sqrt{518}e^{12}, \frac{1}{123}\sqrt{7030}e^{13}, \frac{1}{123}\sqrt{4514}e^{23},$ $\frac{2}{123}\sqrt{1517}e^{16} + \frac{2}{41}\sqrt{481}e^{24} + \frac{2}{123}\sqrt{74}e^{37}$	$(\frac{43}{164}, -\frac{31}{492}, \frac{49}{492}, \frac{43}{82}, -\frac{167}{246}, \frac{49}{246}, \frac{89}{246}, \frac{3}{82}, \frac{227}{492})$ $+ \frac{1}{123}\sqrt{30562}e^4 \otimes e_5$	{135, 1578, 235789, 259}
941:235	$0, 0, 0, 0, 0, \frac{1}{494}\sqrt{42195}e^{12}, \frac{1}{494}\sqrt{140070}e^{13}, \frac{1}{247}\sqrt{47415}e^{23},$ $\frac{1}{494}\sqrt{123105}e^{16} + \frac{145}{494}\sqrt{6}e^{24} + \frac{6}{247}\sqrt{290}e^{37}$	$(-\frac{4}{19}, \frac{227}{494}, \frac{123}{988}, -\frac{8}{19}, \frac{141}{988}, \frac{123}{494}, -\frac{85}{988}, \frac{577}{988}, \frac{1}{26})$ $+ \frac{11}{494}\sqrt{3045}e^2 \otimes e_4$	{3458, 348, 457, 47}
941:235	$0, 0, 0, 0, 0, \frac{598}{1581}e^{12}, \frac{23}{1581}\sqrt{938}e^{13}, \frac{23}{1581}\sqrt{1554}e^{23},$ $\frac{46}{1581}\sqrt{199}e^{16} + \frac{115}{1581}\sqrt{197}e^{24} + \frac{23}{527}\sqrt{2}e^{37}$	$(-\frac{161}{1581}, \frac{69}{527}, \frac{23}{1581}, -\frac{322}{1581}, \frac{253}{527}, \frac{46}{1581}, -\frac{46}{527}, \frac{230}{1581}, -\frac{115}{1581})$ $+ \frac{23}{1581}\sqrt{1306}e^5 \otimes e_8 + \frac{46}{1581}\sqrt{411}e^2 \otimes e_4$	{348, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 235	$0, 0, 0, 0, 0, \frac{96}{2699}\sqrt{89}e^{12}, \frac{32}{2699}\sqrt{365}e^{13}, \frac{32}{2699}\sqrt{1034}e^{23},$ $\frac{576}{2699}\sqrt{3}e^{16} + \frac{32}{2699}\sqrt{373}e^{24} + \frac{32}{2699}\sqrt{466}e^{37}$	$(\frac{304}{2699}, -\frac{240}{2699}, \frac{32}{2699}, \frac{608}{2699}, -\frac{752}{2699}, \frac{64}{2699}, \frac{336}{2699}, -\frac{208}{2699}, \frac{368}{2699})$ $+ \frac{32}{2699}\sqrt{1477}e^1 \otimes e_8 + \frac{32}{2699}\sqrt{987}e^2 \otimes e_5$	{123479, 3458}
941: 235	$0, 0, 0, 0, 0, \frac{246}{1775}\sqrt{13}e^{12}, \frac{41}{5325}\sqrt{1334}e^{13}, \frac{41}{5325}\sqrt{2094}e^{23},$ $\frac{82}{5325}\sqrt{878}e^{16} + \frac{41}{5325}\sqrt{2746}e^{24} + \frac{328}{5325}\sqrt{10}e^{37}$	$(-\frac{287}{5325}, \frac{369}{1775}, \frac{82}{1065}, -\frac{574}{5325}, -\frac{656}{1775}, \frac{164}{1065}, \frac{41}{1775}, \frac{1517}{5325}, \frac{533}{5325})$ $+ \frac{41}{5325}\sqrt{4834}e^2 \otimes e_4 + \frac{82}{5325}\sqrt{1219}e^1 \otimes e_5$	{3458, 457}
941: 235	$0, 0, 0, 0, 0, \frac{180}{6449}\sqrt{10}e^{12}, \frac{45}{6449}\sqrt{1310}e^{13}, \frac{45}{6449}\sqrt{4330}e^{23},$ $\frac{45}{6449}\sqrt{406}e^{16} + \frac{180}{6449}\sqrt{217}e^{24} + \frac{45}{6449}\sqrt{2414}e^{37}$	$(\frac{855}{6449}, -\frac{495}{6449}, \frac{180}{6449}, \frac{1710}{6449}, -\frac{2520}{6449}, \frac{360}{6449}, \frac{1035}{6449}, -\frac{315}{6449}, \frac{1215}{6449})$ $+ \frac{45}{6449}\sqrt{5926}e^4 \otimes e_8 + \frac{45}{6449}\sqrt{6006}e^2 \otimes e_5$	{1289, 358}
941: 235	$0, 0, 0, 0, 0, \frac{94}{3861}\sqrt{415}e^{12}, \frac{47}{3861}\sqrt{1346}e^{13}, \frac{329}{3861}\sqrt{30}e^{23},$ $\frac{94}{3861}\sqrt{447}e^{16} + \frac{235}{1287}\sqrt{2}e^{24} + \frac{94}{3861}\sqrt{95}e^{37}$	$(-\frac{47}{297}, \frac{329}{1287}, \frac{188}{3861}, -\frac{94}{297}, \frac{658}{1287}, \frac{376}{3861}, -\frac{47}{429}, \frac{1175}{3861}, -\frac{235}{3861})$ $+ \frac{47}{3861}\sqrt{3774}e^2 \otimes e_4 + \frac{94}{3861}\sqrt{767}e^5 \otimes e_9$	{1345678, 1456}
941: 235	$0, 0, 0, 0, 0, \frac{168}{281}e^{12}, \frac{24}{281}e^{13}, \frac{24}{281}\sqrt{95}e^{23},$ $\frac{24}{281}e^{16} + \frac{24}{281}\sqrt{95}e^{24} + \frac{168}{281}e^{37}$	$(\frac{93}{281}, -\frac{99}{281}, -\frac{3}{281}, \frac{186}{281}, \frac{42}{281}, -\frac{6}{281}, \frac{90}{281}, -\frac{102}{281}, \frac{87}{281})$ $+ \frac{24}{281}\sqrt{239}e^4 \otimes e_8$	{125689, 12689, 3568, 368}
941: 235	$0, 0, 0, 0, 0, \frac{4}{2097}\sqrt{2122}e^{12}, \frac{2}{2097}\sqrt{94429}e^{13}, \frac{2}{2097}\sqrt{3183}e^{23},$ $\frac{8}{2097}\sqrt{22281}e^{16} + \frac{2}{2097}\sqrt{528378}e^{24} + \frac{2}{2097}\sqrt{532622}e^{37}$	$(-\frac{65}{2097}, \frac{35}{699}, \frac{20}{2097}, -\frac{130}{2097}, \frac{1}{2097}, \frac{40}{2097}, -\frac{5}{233}, \frac{125}{2097}, -\frac{25}{2097})$ $+ \frac{2}{2097}\sqrt{1834469}e^5 \otimes e_9$	{12389, 1279, 357, 58}
941: 235	$0, 0, 0, 0, 0, \frac{6}{2081}\sqrt{75422}e^{12}, \frac{2}{2081}\sqrt{201710}e^{13}, \frac{2}{2081}\sqrt{97347}e^{23},$ $\frac{4}{2081}\sqrt{159614}e^{16} + \frac{12}{2081}\sqrt{8770}e^{24} + \frac{6}{2081}\sqrt{2631}e^{37}$	$(\frac{349}{2081}, \frac{35}{2081}, \frac{192}{2081}, \frac{698}{2081}, -\frac{1405}{2081}, \frac{384}{2081}, \frac{541}{2081}, \frac{227}{2081}, \frac{733}{2081})$ $+ \frac{2}{2081}\sqrt{1528611}e^1 \otimes e_5$	{123489, 12479, 3457, 458}
941: 235	$0, 0, 0, 0, 0, \frac{20}{173}\sqrt{11}e^{12}, \frac{10}{173}\sqrt{58}e^{13}, \frac{15}{173}\sqrt{26}e^{23},$ $\frac{5}{173}\sqrt{138}e^{16} + \frac{20}{173}\sqrt{10}e^{24} + \frac{10}{173}\sqrt{30}e^{37}$	$(\frac{30}{173}, -\frac{20}{173}, \frac{5}{173}, \frac{60}{173}, -\frac{70}{173}, \frac{10}{173}, \frac{35}{173}, -\frac{15}{173}, \frac{40}{173})$ $+ \frac{5}{173}\sqrt{422}e^4 \otimes e_8 + \frac{5}{173}\sqrt{518}e^3 \otimes e_5$	{1256789, 3678}
941: 235	$0, 0, 0, 0, 0, \frac{6}{73}\sqrt{37}e^{12}, \frac{1}{73}\sqrt{222}e^{13}, \frac{1}{73}\sqrt{1702}e^{23},$ $\frac{1}{73}\sqrt{2146}e^{16} + \frac{1}{73}\sqrt{962}e^{24} + \frac{2}{73}\sqrt{185}e^{37}$	$(\frac{17}{73}, \frac{19}{73}, -\frac{1}{73}, \frac{34}{73}, -\frac{3}{73}, -\frac{2}{73}, \frac{16}{73}, -\frac{20}{73}, \frac{15}{73})$ $+ \frac{2}{73}\sqrt{222}e^4 \otimes e_5 + \frac{2}{73}\sqrt{962}e^1 \otimes e_8$	{123479, 348}
941: 235	$0, 0, 0, 0, 0, \frac{456}{1973}\sqrt{3}e^{12}, \frac{38}{1973}\sqrt{107}e^{13}, \frac{38}{1973}\sqrt{461}e^{23},$ $\frac{76}{1973}\sqrt{201}e^{16} + \frac{38}{1973}\sqrt{274}e^{24} + \frac{38}{1973}\sqrt{58}e^{37}$	$(\frac{247}{1973}, -\frac{399}{1973}, -\frac{76}{1973}, \frac{494}{1973}, \frac{817}{1973}, -\frac{152}{1973}, \frac{171}{1973}, -\frac{475}{1973}, \frac{95}{1973})$ $+ \frac{1292}{1973}e^1 \otimes e_8 + \frac{38}{1973}\sqrt{597}e^5 \otimes e_9$	{123479, 3458}
941: 235	$0, 0, 0, 0, 0, \frac{51}{5233}\sqrt{1114}e^{12}, \frac{51}{5233}\sqrt{86}e^{13}, \frac{51}{5233}\sqrt{1154}e^{23},$ $\frac{204}{5233}\sqrt{47}e^{16} + \frac{204}{5233}\sqrt{197}e^{24} + \frac{51}{5233}\sqrt{218}e^{37}$	$(\frac{663}{5233}, -\frac{1071}{5233}, -\frac{204}{5233}, \frac{1326}{5233}, \frac{2856}{5233}, -\frac{408}{5233}, \frac{459}{5233}, -\frac{1275}{5233}, \frac{255}{5233})$ $+ \frac{153}{5233}\sqrt{518}e^5 \otimes e_9 + \frac{51}{5233}\sqrt{4754}e^4 \otimes e_8$	{1479, 23457}
941: 235	$0, 0, 0, 0, 0, \frac{2}{2053}\sqrt{468401}e^{12}, \frac{2}{2053}\sqrt{305915}e^{13}, \frac{2}{2053}\sqrt{602803}e^{23},$ $\frac{1}{2053}\sqrt{185555}e^{16} + \frac{4}{2053}\sqrt{89267}e^{24} + \frac{4}{2053}\sqrt{67201}e^{37}$	$(-\frac{9}{2053}, \frac{629}{2053}, \frac{310}{2053}, -\frac{18}{2053}, -\frac{1377}{2053}, \frac{620}{2053}, \frac{301}{2053}, \frac{939}{2053}, \frac{611}{2053})$ $+ \frac{14}{2053}\sqrt{35105}e^2 \otimes e_5$	{12379, 1289, 358, 57}
941: 235	$0, 0, 0, 0, 0, \frac{7}{106}\sqrt{57}e^{12}, \frac{7}{106}\sqrt{10}e^{13}, \frac{7}{53}\sqrt{15}e^{23},$ $\frac{7}{106}\sqrt{5}e^{16} + \frac{49}{318}\sqrt{6}e^{24} + \frac{7}{159}\sqrt{66}e^{37}$	$(-\frac{14}{159}, \frac{91}{318}, \frac{21}{212}, -\frac{28}{159}, -\frac{77}{212}, \frac{21}{106}, \frac{7}{636}, \frac{245}{636}, \frac{35}{318})$ $+ \frac{35}{318}\sqrt{33}e^2 \otimes e_4 + \frac{7}{159}\sqrt{222}e^3 \otimes e_5$	{3478, 45}
941: 235	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{74}e^{12}, \frac{2}{123}\sqrt{1517}e^{13}, \frac{2}{41}\sqrt{481}e^{23},$ $\frac{1}{123}\sqrt{7030}e^{16} + \frac{1}{123}\sqrt{4514}e^{24} + \frac{1}{41}\sqrt{518}e^{37}$	$(\frac{35}{246}, -\frac{15}{82}, -\frac{5}{246}, \frac{35}{123}, 1, -\frac{5}{41}, \frac{5}{123}, -\frac{25}{123}, \frac{25}{246})$ $+ \frac{1}{123}\sqrt{30562}e^5 \otimes e_8$	{13789, 159, 235, 278}
941: 235	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{10545}e^{12}, \frac{1}{341}\sqrt{11470}e^{13}, \frac{1}{341}\sqrt{52170}e^{23},$ $\frac{1}{341}\sqrt{66230}e^{16} + \frac{37}{341}\sqrt{30}e^{24} + \frac{6}{341}\sqrt{555}e^{37}$	$(\frac{79}{341}, -\frac{97}{341}, -\frac{9}{341}, \frac{158}{341}, \frac{47}{341}, -\frac{18}{341}, \frac{70}{341}, -\frac{106}{341}, \frac{61}{341})$ $+ \frac{14}{341}\sqrt{555}e^1 \otimes e_8$	{1234579, 123479, 3458, 348}
941: 235	$0, 0, 0, 0, 0, \frac{45}{3341}\sqrt{886}e^{12}, \frac{90}{3341}\sqrt{94}e^{13}, \frac{45}{3341}\sqrt{778}e^{23},$ $\frac{90}{3341}\sqrt{331}e^{16} + \frac{180}{3341}\sqrt{19}e^{24} + \frac{90}{3341}\sqrt{134}e^{37}$	$(\frac{765}{3341}, -\frac{45}{257}, \frac{90}{3341}, \frac{1530}{3341}, -\frac{1260}{3341}, \frac{180}{3341}, \frac{855}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+ \frac{45}{3341}\sqrt{2566}e^4 \otimes e_8 + \frac{45}{3341}\sqrt{3318}e^1 \otimes e_5$	{1368, 25689}
941: 237	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{5}e^{12}, \frac{1}{11}\sqrt{39}e^{13}, \frac{3}{11}\sqrt{6}e^{23},$ $\frac{2}{11}\sqrt{17}e^{17} + \frac{1}{11}\sqrt{30}e^{26} + \frac{1}{11}\sqrt{3}e^{45}$	$(\frac{4}{11}, 0, -\frac{4}{11}, \frac{2}{11}, \frac{2}{11}, \frac{4}{11}, 0, -\frac{4}{11}, \frac{4}{11})$ $+ \frac{7}{11}\sqrt{3}e^1 \otimes e_8$	{1467, 345789, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 237	$0, 0, 0, 0, 0, \frac{2}{1327}\sqrt{67766}e^{12}, \frac{1}{1327}\sqrt{229530}e^{13}, \frac{4}{1327}\sqrt{86347}e^{23},$ $\frac{2}{1327}\sqrt{20767}e^{17} + \frac{2}{1327}\sqrt{185810}e^{26} + \frac{1}{1327}\sqrt{1186998}e^{45}$	$(\frac{384}{1327}, \frac{25}{1327}, -\frac{334}{1327}, \frac{784}{1327}, -\frac{350}{1327}, \frac{409}{1327}, \frac{50}{1327}, -\frac{309}{1327}, \frac{434}{1327})$ $+ \frac{18}{1327}\sqrt{7651}e^4 \otimes e_8$	{125689, 149, 2345, 368}
941: 237	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{5}e^{12}, \frac{1}{15}\sqrt{39}e^{13}, \frac{1}{5}\sqrt{6}e^{23},$ $\frac{2}{15}\sqrt{17}e^{17} + \frac{1}{15}\sqrt{30}e^{26} + \frac{1}{15}\sqrt{3}e^{45}$	$(\frac{4}{15}, 0, -\frac{4}{15}, \frac{2}{5}, -\frac{2}{15}, \frac{4}{15}, 0, -\frac{4}{15}, \frac{4}{15})$ $+ \frac{7}{15}\sqrt{3}e^1 \otimes e_8 + \frac{8}{15}e^4 \otimes e_5$	{1467, 1567}
941: 237	$0, 0, 0, 0, 0, \frac{4}{129}\sqrt{103}e^{12}, \frac{2}{129}\sqrt{618}e^{13}, \frac{4}{129}\sqrt{103}e^{23},$ $\frac{4}{129}\sqrt{103}e^{17} + \frac{4}{129}\sqrt{103}e^{26} + \frac{2}{129}\sqrt{618}e^{45}$	$(\frac{4}{43}, \frac{14}{129}, \frac{16}{129}, \frac{41}{43}, -\frac{83}{129}, \frac{26}{129}, \frac{28}{129}, \frac{10}{43}, \frac{40}{129})$ $+ \frac{206}{129}e^4 \otimes e_5$	{12349, 12359, 134689, 135689}
941: 238	$0, 0, 0, 0, 0, -\frac{15}{94}\sqrt{6}e^{12}, \frac{15}{94}\sqrt{6}e^{13}, \frac{5}{47}\sqrt{3}e^{23},$ $\frac{5}{94}\sqrt{42}e^{26} + \frac{5}{94}\sqrt{42}e^{37} + \frac{10}{47}\sqrt{3}e^{45}$	$(\frac{5}{47}, \frac{5}{47}, \frac{5}{47}, \frac{45}{47}, -\frac{30}{47}, \frac{10}{47}, \frac{10}{47}, \frac{10}{47}, \frac{15}{47})$ $+ \frac{75}{47}e^4 \otimes e_5$	{12349, 12359, 124789, 125789, 14679, 15679, 12349, 12359, 124789, 125789, 14679, 15679}
941: 238	$0, 0, 0, 0, 0, \frac{15}{94}\sqrt{6}e^{12}, \frac{15}{94}\sqrt{6}e^{13}, \frac{5}{47}\sqrt{3}e^{23},$ $\frac{5}{94}\sqrt{42}e^{26} + \frac{5}{94}\sqrt{42}e^{37} + \frac{10}{47}\sqrt{3}e^{45}$	$(\frac{5}{47}, \frac{5}{47}, \frac{5}{47}, \frac{45}{47}, -\frac{30}{47}, \frac{10}{47}, \frac{10}{47}, \frac{10}{47}, \frac{15}{47})$ $+ \frac{75}{47}e^4 \otimes e_5$	{12349, 12359, 124789, 125789, 14679, 15679, 12349, 12359, 124789, 125789, 14679, 15679}
941: 238	$0, 0, 0, 0, 0, -\frac{5}{176}\sqrt{195}e^{12}, \frac{5}{176}\sqrt{195}e^{13}, \frac{15}{176}\sqrt{110}e^{23},$ $\frac{5}{176}\sqrt{410}e^{26} + \frac{5}{176}\sqrt{410}e^{37} + \frac{5}{88}\sqrt{215}e^{45}$	$(\frac{15}{44}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, -\frac{65}{176}, \frac{85}{352}, \frac{85}{352}, -\frac{35}{176}, \frac{25}{176})$ $+ \frac{25}{176}\sqrt{62}e^4 \otimes e_8$	{1234679, 125689, 149, 2345, 278, 4567, 1234679, 125689, 149, 2345, 278, 4567}
941: 238	$0, 0, 0, 0, 0, \frac{5}{176}\sqrt{195}e^{12}, \frac{5}{176}\sqrt{195}e^{13}, \frac{15}{176}\sqrt{110}e^{23},$ $\frac{5}{176}\sqrt{410}e^{26} + \frac{5}{176}\sqrt{410}e^{37} + \frac{5}{88}\sqrt{215}e^{45}$	$(\frac{15}{44}, -\frac{35}{352}, -\frac{35}{352}, \frac{45}{88}, -\frac{65}{176}, \frac{85}{352}, \frac{85}{352}, -\frac{35}{176}, \frac{25}{176})$ $+ \frac{25}{176}\sqrt{62}e^4 \otimes e_8$	{1234679, 125689, 149, 2345, 278, 4567, 1234679, 125689, 149, 2345, 278, 4567}
941: 238	$0, 0, 0, 0, 0, -\frac{5}{74}\sqrt{38}e^{12}, \frac{5}{74}\sqrt{38}e^{13}, \frac{5}{37}\sqrt{11}e^{23},$ $\frac{5}{74}\sqrt{6}e^{26} + \frac{5}{74}\sqrt{6}e^{37} + \frac{10}{37}e^{45}$	$(\frac{15}{37}, -\frac{5}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{5}{37})$ $+ \frac{10}{37}\sqrt{10}e^1 \otimes e_8 + \frac{25}{37}e^4 \otimes e_5$	{24689, 25689, 24689, 25689}
941: 238	$0, 0, 0, 0, 0, \frac{5}{74}\sqrt{38}e^{12}, \frac{5}{74}\sqrt{38}e^{13}, \frac{5}{37}\sqrt{11}e^{23},$ $\frac{5}{74}\sqrt{6}e^{26} + \frac{5}{74}\sqrt{6}e^{37} + \frac{10}{37}e^{45}$	$(\frac{15}{37}, -\frac{5}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{5}{37})$ $+ \frac{10}{37}\sqrt{10}e^1 \otimes e_8 + \frac{25}{37}e^4 \otimes e_5$	{24689, 25689, 24689, 25689}
941: 238	$0, 0, 0, 0, 0, -\frac{5}{49}\sqrt{38}e^{12}, \frac{5}{49}\sqrt{38}e^{13}, \frac{10}{49}\sqrt{11}e^{23},$ $\frac{5}{49}\sqrt{6}e^{26} + \frac{5}{49}\sqrt{6}e^{37} + \frac{20}{49}e^{45}$	$(\frac{30}{49}, -\frac{10}{49}, -\frac{10}{49}, \frac{5}{49}, \frac{5}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{20}{49}, \frac{10}{49})$ $+ \frac{20}{49}\sqrt{10}e^1 \otimes e_8$	{123, 12345, 14567, 167, 24689, 123, 12345, 14567, 167, 24689}
941: 238	$0, 0, 0, 0, 0, \frac{5}{49}\sqrt{38}e^{12}, \frac{5}{49}\sqrt{38}e^{13}, \frac{10}{49}\sqrt{11}e^{23},$ $\frac{5}{49}\sqrt{6}e^{26} + \frac{5}{49}\sqrt{6}e^{37} + \frac{20}{49}e^{45}$	$(\frac{30}{49}, -\frac{10}{49}, -\frac{10}{49}, \frac{5}{49}, \frac{5}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{20}{49}, \frac{10}{49})$ $+ \frac{20}{49}\sqrt{10}e^1 \otimes e_8$	{123, 12345, 14567, 167, 24689, 123, 12345, 14567, 167, 24689}
941: 240	$0, 0, 0, 0, 0, -\frac{1}{196}\sqrt{4321}e^{12}, \frac{1}{196}\sqrt{4321}e^{13}, \frac{1}{196}\sqrt{19966}e^{14},$ $\frac{1}{49}\sqrt{447}e^{15} + \frac{1}{196}\sqrt{12814}e^{26} + \frac{1}{196}\sqrt{12814}e^{37}$	$(-\frac{29}{196}, \frac{9}{392}, \frac{9}{392}, \frac{129}{196}, \frac{9}{196}, -\frac{1}{8}, -\frac{1}{8}, \frac{25}{49}, -\frac{5}{49})$ $+ \frac{1}{196}\sqrt{48574}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941: 240	$0, 0, 0, 0, 0, \frac{1}{196}\sqrt{4321}e^{12}, \frac{1}{196}\sqrt{4321}e^{13}, \frac{1}{196}\sqrt{19966}e^{14},$ $\frac{1}{49}\sqrt{447}e^{15} + \frac{1}{196}\sqrt{12814}e^{26} + \frac{1}{196}\sqrt{12814}e^{37}$	$(-\frac{29}{196}, \frac{9}{392}, \frac{9}{392}, \frac{129}{196}, \frac{9}{196}, -\frac{1}{8}, -\frac{1}{8}, \frac{25}{49}, -\frac{5}{49})$ $+ \frac{1}{196}\sqrt{48574}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941: 240	$0, 0, 0, 0, 0, -\frac{1}{20}\sqrt{105}e^{12}, \frac{1}{20}\sqrt{105}e^{13}, \frac{3}{10}\sqrt{7}e^{14},$ $\frac{7}{20}\sqrt{6}e^{15} + \frac{1}{20}\sqrt{42}e^{26} + \frac{1}{20}\sqrt{42}e^{37}$	$(-\frac{1}{4}, \frac{13}{40}, \frac{13}{40}, -\frac{3}{20}, \frac{13}{20}, \frac{3}{40}, \frac{3}{40}, -\frac{2}{5}, \frac{2}{5})$ $+ \frac{1}{20}\sqrt{714}e^5 \otimes e_8$	{1236789, 12689, 189, 2348, 2478, 4678, 1236789, 12689, 189, 2348, 2478, 4678}
941: 240	$0, 0, 0, 0, 0, \frac{1}{20}\sqrt{105}e^{12}, \frac{1}{20}\sqrt{105}e^{13}, \frac{3}{10}\sqrt{7}e^{14},$ $\frac{7}{20}\sqrt{6}e^{15} + \frac{1}{20}\sqrt{42}e^{26} + \frac{1}{20}\sqrt{42}e^{37}$	$(-\frac{1}{4}, \frac{13}{40}, \frac{13}{40}, -\frac{3}{20}, \frac{13}{20}, \frac{3}{40}, \frac{3}{40}, -\frac{2}{5}, \frac{2}{5})$ $+ \frac{1}{20}\sqrt{714}e^5 \otimes e_8$	{1236789, 12689, 189, 2348, 2478, 4678, 1236789, 12689, 189, 2348, 2478, 4678}
941: 240	$0, 0, 0, 0, 0, -\frac{1}{12}\sqrt{10}e^{12}, \frac{1}{9}e^{13}, \frac{1}{12}\sqrt{10}e^{14},$ $\frac{1}{18}\sqrt{22}e^{15} + \frac{1}{18}\sqrt{21}e^{26} + \frac{1}{36}\sqrt{10}e^{37}$	$(\frac{1}{9}, 0, 0, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{18}\sqrt{37}e^2 \otimes e_8 + \frac{1}{36}\sqrt{114}e^1 \otimes e_5$	{23567, 256, 34578, 458, 23567, 256, 34578, 458}
941: 240	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{10}e^{12}, \frac{1}{9}e^{13}, \frac{1}{12}\sqrt{10}e^{14},$ $\frac{1}{18}\sqrt{22}e^{15} + \frac{1}{18}\sqrt{21}e^{26} + \frac{1}{36}\sqrt{10}e^{37}$	$(\frac{1}{9}, 0, 0, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{18}\sqrt{37}e^2 \otimes e_8 + \frac{1}{36}\sqrt{114}e^1 \otimes e_5$	{23567, 256, 34578, 458, 23567, 256, 34578, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:240	$0, 0, 0, 0, 0, -\frac{13}{457}\sqrt{65}e^{12}, \frac{13}{457}\sqrt{65}e^{13}, \frac{26}{457}\sqrt{70}e^{14},$ $\frac{26}{457}\sqrt{14}e^{15} + \frac{13}{457}\sqrt{149}e^{26} + \frac{13}{457}\sqrt{149}e^{37}$	$(\frac{65}{457}, -\frac{52}{457}, -\frac{52}{457}, \frac{130}{457}, -\frac{104}{457}, \frac{13}{457}, \frac{13}{457}, \frac{195}{457}, -\frac{39}{457})$ $+\frac{13}{457}\sqrt{374}e^1 \otimes e_5 + \frac{13}{457}\sqrt{430}e^4 \otimes e_9$	{2345678, 24568, 458, 2345678, 24568, 458}
941:240	$0, 0, 0, 0, 0, \frac{13}{457}\sqrt{65}e^{12}, \frac{13}{457}\sqrt{65}e^{13}, \frac{26}{457}\sqrt{70}e^{14},$ $\frac{26}{457}\sqrt{14}e^{15} + \frac{13}{457}\sqrt{149}e^{26} + \frac{13}{457}\sqrt{149}e^{37}$	$(\frac{65}{457}, -\frac{52}{457}, -\frac{52}{457}, \frac{130}{457}, -\frac{104}{457}, \frac{13}{457}, \frac{13}{457}, \frac{195}{457}, -\frac{39}{457})$ $+\frac{13}{457}\sqrt{374}e^1 \otimes e_5 + \frac{13}{457}\sqrt{430}e^4 \otimes e_9$	{2345678, 24568, 458, 2345678, 24568, 458}
941:240	$0, 0, 0, 0, 0, -\frac{10}{197}\sqrt{174}e^{12}, \frac{10}{197}\sqrt{174}e^{13}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{2}{197}\sqrt{4611}e^{15} + \frac{2}{197}\sqrt{1914}e^{26} + \frac{2}{197}\sqrt{1914}e^{37}$	$(\frac{100}{197}, -\frac{37}{197}, -\frac{37}{197}, -\frac{15}{197}, -\frac{74}{197}, \frac{63}{197}, \frac{63}{197}, \frac{85}{197}, \frac{26}{197})$ $+\frac{18}{197}\sqrt{174}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 458, 5, 2345678, 23567, 24568, 256, 458, 5}
941:240	$0, 0, 0, 0, 0, \frac{10}{197}\sqrt{174}e^{12}, \frac{10}{197}\sqrt{174}e^{13}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{2}{197}\sqrt{4611}e^{15} + \frac{2}{197}\sqrt{1914}e^{26} + \frac{2}{197}\sqrt{1914}e^{37}$	$(\frac{100}{197}, -\frac{37}{197}, -\frac{37}{197}, -\frac{15}{197}, -\frac{74}{197}, \frac{63}{197}, \frac{63}{197}, \frac{85}{197}, \frac{26}{197})$ $+\frac{18}{197}\sqrt{174}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 458, 5, 2345678, 23567, 24568, 256, 458, 5}
941:240	$0, 0, 0, 0, 0, -\frac{1}{187}\sqrt{15573}e^{12}, \frac{1}{187}\sqrt{15573}e^{13}, \frac{1}{187}\sqrt{12530}e^{14},$ $\frac{4}{187}\sqrt{1074}e^{15} + \frac{3}{187}\sqrt{179}e^{26} + \frac{3}{187}\sqrt{179}e^{37}$	$(\frac{87}{187}, -\frac{9}{187}, -\frac{9}{187}, -\frac{92}{187}, -\frac{18}{187}, \frac{78}{187}, \frac{78}{187}, -\frac{5}{187}, \frac{69}{187})$ $+\frac{1}{187}\sqrt{56206}e^1 \otimes e_4$	{1235, 1257, 1567, 2345679, 24569, 459, 1235, 1257, 1567, 2345679, 24569, 459}
941:240	$0, 0, 0, 0, 0, \frac{1}{187}\sqrt{15573}e^{12}, \frac{1}{187}\sqrt{15573}e^{13}, \frac{1}{187}\sqrt{12530}e^{14},$ $\frac{4}{187}\sqrt{1074}e^{15} + \frac{3}{187}\sqrt{179}e^{26} + \frac{3}{187}\sqrt{179}e^{37}$	$(\frac{87}{187}, -\frac{9}{187}, -\frac{9}{187}, -\frac{92}{187}, -\frac{18}{187}, \frac{78}{187}, \frac{78}{187}, -\frac{5}{187}, \frac{69}{187})$ $+\frac{1}{187}\sqrt{56206}e^1 \otimes e_4$	{1235, 1257, 1567, 2345679, 24569, 459, 1235, 1257, 1567, 2345679, 24569, 459}
941:240	$0, 0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{6}\sqrt{6}e^{14},$ $\frac{1}{4}\sqrt{2}e^{15} + \frac{1}{12}\sqrt{6}e^{26} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+\frac{1}{12}\sqrt{30}e^5 \otimes e_8 + \frac{1}{2}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:240	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{6}\sqrt{6}e^{14},$ $\frac{1}{4}\sqrt{2}e^{15} + \frac{1}{12}\sqrt{6}e^{26} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+\frac{1}{12}\sqrt{30}e^5 \otimes e_8 + \frac{1}{2}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:240	$0, 0, 0, 0, 0, -\frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{6}\sqrt{6}e^{14},$ $\frac{1}{4}\sqrt{2}e^{15} + \frac{1}{12}\sqrt{6}e^{26} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $-\frac{1}{12}\sqrt{30}e^5 \otimes e_8 + \frac{1}{2}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:240	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{13}, \frac{1}{6}\sqrt{6}e^{14},$ $\frac{1}{4}\sqrt{2}e^{15} + \frac{1}{12}\sqrt{6}e^{26} + \frac{1}{12}\sqrt{6}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $-\frac{1}{12}\sqrt{30}e^5 \otimes e_8 + \frac{1}{2}e^4 \otimes e_9$	{1234567, 12456, 145, 2359, 2579, 5679, 1234567, 12456, 145, 2359, 2579, 5679}
941:241	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{1065}e^{12}, \frac{7}{1741}\sqrt{77}e^{13}, \frac{7}{1741}\sqrt{1703}e^{14},$ $\frac{21}{1741}\sqrt{71}e^{16} + \frac{7}{1741}\sqrt{1645}e^{25} + \frac{7}{1741}\sqrt{251}e^{37}$	$(\frac{77}{1741}, -\frac{175}{1741}, -\frac{49}{1741}, \frac{28}{1741}, \frac{154}{1741}, -\frac{98}{1741}, \frac{28}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+\frac{7}{1741}\sqrt{1529}e^4 \otimes e_9 - \frac{7}{1741}\sqrt{1723}e^5 \otimes e_8$	{123689, 126789, 34678, 468}
941:241	$0, 0, 0, 0, 0, \frac{7}{1741}\sqrt{1065}e^{12}, \frac{7}{1741}\sqrt{77}e^{13}, \frac{7}{1741}\sqrt{1703}e^{14},$ $\frac{21}{1741}\sqrt{71}e^{16} + \frac{7}{1741}\sqrt{1645}e^{25} + \frac{7}{1741}\sqrt{251}e^{37}$	$(\frac{77}{1741}, -\frac{175}{1741}, -\frac{49}{1741}, \frac{28}{1741}, \frac{154}{1741}, -\frac{98}{1741}, \frac{28}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+\frac{7}{1741}\sqrt{1529}e^4 \otimes e_9 + \frac{7}{1741}\sqrt{1723}e^5 \otimes e_8$	{123689, 126789, 34678, 468}
941:241	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{2}e^{12}, \frac{1}{7}\sqrt{15}e^{13}, \frac{1}{7}\sqrt{15}e^{14},$ $\frac{1}{7}\sqrt{15}e^{16} + \frac{2}{7}e^{25} + \frac{4}{7}e^{37}$	$(-\frac{1}{21}, \frac{1}{3}, \frac{1}{7}, -\frac{5}{21}, -\frac{2}{21}, \frac{2}{7}, \frac{2}{21}, -\frac{2}{7}, \frac{5}{21})$ $+\frac{1}{7}\sqrt{5}e^2 \otimes e_5 + \frac{4}{7}\sqrt{2}e^3 \otimes e_8$	{123469, 126789}
941:241	$0, 0, 0, 0, 0, \frac{2}{85}\sqrt{570}e^{12}, \frac{2}{85}\sqrt{57}e^{13}, \frac{2}{85}\sqrt{95}e^{14},$ $\frac{2}{85}\sqrt{399}e^{16} + \frac{2}{85}\sqrt{57}e^{25} + \frac{2}{85}\sqrt{57}e^{37}$	$(\frac{6}{85}, \frac{12}{85}, \frac{9}{85}, -\frac{32}{85}, \frac{12}{85}, \frac{18}{85}, \frac{3}{85}, -\frac{26}{85}, \frac{24}{85})$ $+\frac{2}{85}\sqrt{570}e^2 \otimes e_8 + \frac{2}{85}\sqrt{874}e^1 \otimes e_4$	{2345679, 24569}
941:241	$0, 0, 0, 0, 0, \frac{76}{2245}\sqrt{555}e^{12}, \frac{2}{2245}\sqrt{162393}e^{13}, \frac{2}{2245}\sqrt{530765}e^{14},$ $\frac{2}{2245}\sqrt{820401}e^{16} + \frac{2}{2245}\sqrt{457653}e^{25} + \frac{18}{2245}\sqrt{703}e^{37}$	$(\frac{462}{2245}, -\frac{216}{2245}, \frac{123}{2245}, -\frac{944}{2245}, \frac{924}{2245}, \frac{246}{2245}, \frac{117}{2245}, -\frac{482}{2245}, \frac{708}{2245})$ $+\frac{4}{2245}\sqrt{346579}e^1 \otimes e_4$	{1356, 1567, 2345679, 24569}
941:241	$0, 0, 0, 0, 0, \frac{23}{1301}\sqrt{138}e^{12}, \frac{23}{1301}\sqrt{870}e^{13}, \frac{46}{1301}\sqrt{130}e^{14},$ $\frac{23}{1301}\sqrt{390}e^{16} + \frac{46}{1301}\sqrt{6}e^{25} + \frac{138}{1301}\sqrt{21}e^{37}$	$(\frac{69}{1301}, \frac{207}{1301}, \frac{138}{1301}, -\frac{460}{1301}, \frac{138}{1301}, \frac{276}{1301}, \frac{207}{1301}, -\frac{391}{1301}, \frac{345}{1301})$ $+\frac{230}{1301}\sqrt{7}e^1 \otimes e_4 + \frac{69}{1301}\sqrt{178}e^3 \otimes e_8$	{126789, 468}
941:241	$0, 0, 0, 0, 0, \frac{32}{2389}\sqrt{1007}e^{12}, \frac{6}{2389}\sqrt{13091}e^{13}, \frac{2}{2389}\sqrt{891195}e^{14},$ $\frac{18}{2389}\sqrt{5035}e^{16} + \frac{2}{2389}\sqrt{858971}e^{25} + \frac{2}{2389}\sqrt{21147}e^{37}$	$(-\frac{234}{2389}, \frac{1280}{2389}, \frac{523}{2389}, -\frac{500}{2389}, -\frac{468}{2389}, \frac{1046}{2389}, \frac{289}{2389}, -\frac{734}{2389}, \frac{812}{2389})$ $+\frac{4}{2389}\sqrt{504507}e^2 \otimes e_8$	{1356789, 15689, 2356, 2567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:241	$0, 0, 0, 0, 0, \frac{4}{91}\sqrt{114}e^{12}, \frac{1}{91}\sqrt{19}e^{13}, \frac{1}{91}\sqrt{1007}e^{14},$ $\frac{5}{91}\sqrt{57}e^{16} + \frac{2}{91}\sqrt{247}e^{25} + \frac{2}{91}\sqrt{19}e^{37}$	$(-\frac{1}{91}, \frac{17}{91}, \frac{8}{91}, -\frac{20}{91}, -\frac{2}{91}, \frac{16}{91}, \frac{1}{13}, -\frac{3}{13}, \frac{15}{91})$ $+\frac{1}{91}\sqrt{1273}e^2 \otimes e_5 + \frac{2}{91}\sqrt{494}e^1 \otimes e_4$	{345, 457}
941:241	$0, 0, 0, 0, 0, \frac{17}{6045}\sqrt{3162}e^{12}, \frac{17}{6045}\sqrt{2774}e^{13}, \frac{34}{2015}\sqrt{143}e^{14},$ $\frac{17}{6045}\sqrt{2966}e^{16} + \frac{68}{6045}\sqrt{161}e^{25} + \frac{136}{6045}\sqrt{65}e^{37}$	$(-\frac{391}{6045}, \frac{799}{6045}, \frac{68}{2015}, \frac{102}{2015}, -\frac{782}{6045}, \frac{136}{2015}, -\frac{187}{6045}, -\frac{17}{1209}, \frac{17}{6045})$ $+\frac{17}{6045}\sqrt{6330}e^3 \otimes e_8 + \frac{34}{6045}\sqrt{1187}e^4 \otimes e_9$	{126789, 468}
941:241	$0, 0, 0, 0, 0, \frac{16}{2245}\sqrt{9139}e^{12}, \frac{2}{2245}\sqrt{162393}e^{13}, \frac{2}{2245}\sqrt{855551}e^{14},$ $\frac{2}{2245}\sqrt{565915}e^{16} + \frac{2}{2245}\sqrt{928663}e^{25} + \frac{18}{2245}\sqrt{703}e^{37}$	$(\frac{462}{2245}, -\frac{216}{2245}, \frac{123}{2245}, -\frac{944}{2245}, \frac{924}{2245}, \frac{246}{2245}, \frac{117}{449}, -\frac{482}{2245}, \frac{708}{2245})$ $+\frac{4}{2245}\sqrt{346579}e^5 \otimes e_8$	{138, 178, 234789, 2489}
941:241	$0, 0, 0, 0, 0, \frac{4}{815}\sqrt{9757}e^{12}, \frac{2}{2445}\sqrt{73621}e^{13}, \frac{2}{2445}\sqrt{832893}e^{14},$ $\frac{2}{2445}\sqrt{94909}e^{16} + \frac{2}{2445}\sqrt{650171}e^{25} + \frac{2}{2445}\sqrt{474545}e^{37}$	$(-\frac{166}{2445}, \frac{64}{2445}, -\frac{17}{815}, \frac{502}{815}, -\frac{332}{2445}, -\frac{34}{815}, -\frac{217}{2445}, \frac{268}{489}, -\frac{268}{2445})$ $+\frac{4}{2445}\sqrt{453257}e^4 \otimes e_9$	{1234567, 12456, 3569, 5679}
941:241	$0, 0, 0, 0, 0, \frac{36}{3515}\sqrt{167}e^{12}, \frac{216}{3515}\sqrt{6}e^{13}, \frac{36}{3515}\sqrt{1378}e^{14},$ $\frac{72}{3515}\sqrt{59}e^{16} + \frac{36}{3515}\sqrt{1191}e^{25} + \frac{36}{3515}\sqrt{345}e^{37}$	$(-\frac{432}{3515}, \frac{828}{3515}, \frac{198}{3515}, \frac{612}{3515}, -\frac{864}{3515}, \frac{396}{3515}, -\frac{234}{3515}, \frac{36}{703}, -\frac{36}{3515})$ $+\frac{36}{3515}\sqrt{1663}e^4 \otimes e_9 + \frac{36}{703}\sqrt{61}e^2 \otimes e_8$	{239, 279}
941:241	$0, 0, 0, 0, 0, \frac{6}{143}\sqrt{646}e^{12}, \frac{3}{143}\sqrt{665}e^{13}, \frac{3}{143}\sqrt{665}e^{14},$ $\frac{3}{143}\sqrt{969}e^{16} + \frac{6}{143}\sqrt{247}e^{25} + \frac{12}{143}\sqrt{19}e^{37}$	$(-\frac{35}{143}, \frac{101}{143}, \frac{3}{13}, \frac{41}{143}, -\frac{70}{143}, \frac{6}{13}, -\frac{2}{143}, \frac{6}{143}, \frac{31}{143})$ $+\frac{3}{143}\sqrt{4541}e^2 \otimes e_5$	{1345678, 13567, 14568, 156}
941:241	$0, 0, 0, 0, 0, \frac{9}{584}\sqrt{1102}e^{12}, \frac{3}{584}\sqrt{14645}e^{13}, \frac{3}{584}\sqrt{14645}e^{14},$ $\frac{3}{584}\sqrt{14790}e^{16} + \frac{3}{584}\sqrt{4814}e^{25} + \frac{9}{292}\sqrt{406}e^{37}$	$(-\frac{1}{146}, \frac{163}{584}, \frac{159}{1168}, -\frac{355}{1168}, -\frac{1}{73}, \frac{159}{584}, \frac{151}{1168}, -\frac{363}{1168}, \frac{155}{584})$ $+\frac{3}{584}\sqrt{29522}e^3 \otimes e_8$	{123469, 126789, 367, 468}
941:241	$0, 0, 0, 0, 0, \frac{200}{1129}\sqrt{2}e^{12}, \frac{125}{1129}\sqrt{7}e^{13}, \frac{25}{1129}\sqrt{469}e^{14},$ $\frac{25}{1129}\sqrt{209}e^{16} + \frac{50}{1129}\sqrt{73}e^{25} + \frac{50}{1129}\sqrt{89}e^{37}$	$(-\frac{175}{1129}, \frac{275}{1129}, \frac{50}{1129}, \frac{550}{1129}, -\frac{350}{1129}, \frac{100}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+\frac{25}{1129}\sqrt{689}e^2 \otimes e_5 + \frac{50}{1129}\sqrt{322}e^4 \otimes e_9$	{2369, 2679}
941:243	$0, 0, 0, 0, 0, -\frac{2}{17}\sqrt{42}e^{12}, \frac{12}{17}e^{13}, \frac{4}{17}\sqrt{13}e^{24},$ $\frac{2}{17}\sqrt{6}e^{15} + \frac{2}{17}\sqrt{42}e^{26} + \frac{12}{17}e^{37}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+\frac{2}{17}\sqrt{38}e^2 \otimes e_4 + \frac{2}{17}\sqrt{66}e^3 \otimes e_8$	{123469, 139, 2347, 367, 123469, 139, 2347, 367}
941:243	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{42}e^{12}, \frac{12}{17}e^{13}, \frac{4}{17}\sqrt{13}e^{24},$ $\frac{2}{17}\sqrt{6}e^{15} + \frac{2}{17}\sqrt{42}e^{26} + \frac{12}{17}e^{37}$	$(\frac{3}{17}, 0, 0, -\frac{4}{17}, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, \frac{3}{17})$ $+\frac{2}{17}\sqrt{38}e^2 \otimes e_4 + \frac{2}{17}\sqrt{66}e^3 \otimes e_8$	{123469, 139, 2347, 367, 123469, 139, 2347, 367}
941:243	$0, 0, 0, 0, 0, -\frac{3}{325}\sqrt{354}e^{12}, \frac{9}{325}\sqrt{46}e^{13}, \frac{48}{325}\sqrt{6}e^{24},$ $\frac{18}{325}\sqrt{35}e^{15} + \frac{3}{325}\sqrt{354}e^{26} + \frac{9}{325}\sqrt{46}e^{37}$	$(\frac{69}{325}, -\frac{36}{325}, -\frac{36}{325}, \frac{51}{325}, -\frac{72}{325}, \frac{33}{325}, \frac{33}{325}, \frac{3}{65}, -\frac{3}{325})$ $+\frac{6}{325}\sqrt{438}e^1 \otimes e_8 + \frac{6}{325}\sqrt{438}e^4 \otimes e_9$	{139, 179, 34678, 468, 139, 179, 34678, 468}
941:243	$0, 0, 0, 0, 0, \frac{3}{325}\sqrt{354}e^{12}, \frac{9}{325}\sqrt{46}e^{13}, \frac{48}{325}\sqrt{6}e^{24},$ $\frac{18}{325}\sqrt{35}e^{15} + \frac{3}{325}\sqrt{354}e^{26} + \frac{9}{325}\sqrt{46}e^{37}$	$(\frac{69}{325}, -\frac{36}{325}, -\frac{36}{325}, \frac{51}{325}, -\frac{72}{325}, \frac{33}{325}, \frac{33}{325}, \frac{3}{65}, -\frac{3}{325})$ $+\frac{6}{325}\sqrt{438}e^1 \otimes e_8 + \frac{6}{325}\sqrt{438}e^4 \otimes e_9$	{139, 179, 34678, 468, 139, 179, 34678, 468}
941:243	$0, 0, 0, 0, 0, -\frac{4}{169}\sqrt{305}e^{12}, \frac{5}{169}\sqrt{366}e^{13}, \frac{1}{169}\sqrt{10126}e^{24},$ $\frac{4}{169}\sqrt{122}e^{15} + \frac{4}{169}\sqrt{305}e^{26} + \frac{5}{169}\sqrt{366}e^{37}$	$(\frac{3}{169}, \frac{19}{169}, \frac{19}{169}, -\frac{61}{169}, \frac{38}{169}, \frac{22}{169}, \frac{22}{169}, -\frac{42}{169}, \frac{41}{169})$ $+\frac{7}{169}\sqrt{366}e^3 \otimes e_8$	{1234569, 1256789, 1359, 145789, 23457, 258, 3567, 4568, 1234569, 1256789, 1359, 145789, 23457, 258, 3567, 4568}
941:243	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{305}e^{12}, \frac{5}{169}\sqrt{366}e^{13}, \frac{1}{169}\sqrt{10126}e^{24},$ $\frac{4}{169}\sqrt{122}e^{15} + \frac{4}{169}\sqrt{305}e^{26} + \frac{5}{169}\sqrt{366}e^{37}$	$(\frac{3}{169}, \frac{19}{169}, \frac{19}{169}, -\frac{61}{169}, \frac{38}{169}, \frac{22}{169}, \frac{22}{169}, -\frac{42}{169}, \frac{41}{169})$ $+\frac{7}{169}\sqrt{366}e^3 \otimes e_8$	{1234569, 1256789, 1359, 145789, 23457, 258, 3567, 4568, 1234569, 1256789, 1359, 145789, 23457, 258, 3567, 4568}
941:243	$0, 0, 0, 0, 0, -\frac{1}{1745}\sqrt{827}e^{12}, \frac{1}{1745}\sqrt{919}e^{13}, \frac{1}{1745}\sqrt{1606}e^{24},$ $\frac{16}{1745}e^{15} + \frac{1}{1745}\sqrt{501}e^{26} + \frac{1}{1745}\sqrt{1245}e^{37}$	$(-\frac{24}{1745}, \frac{11}{1745}, \frac{11}{1745}, -\frac{1}{1745}, \frac{22}{1745}, -\frac{13}{1745}, -\frac{13}{1745}, \frac{2}{349}, -\frac{2}{1745})$ $+\frac{1}{1745}\sqrt{1886}e^3 \otimes e_8 + \frac{2}{1745}\sqrt{326}e^4 \otimes e_9$	{126789, 139, 2347, 468, 126789, 139, 2347, 468}
941:243	$0, 0, 0, 0, 0, \frac{1}{1745}\sqrt{827}e^{12}, \frac{1}{1745}\sqrt{919}e^{13}, \frac{1}{1745}\sqrt{1606}e^{24},$ $\frac{16}{1745}e^{15} + \frac{1}{1745}\sqrt{501}e^{26} + \frac{1}{1745}\sqrt{1245}e^{37}$	$(-\frac{24}{1745}, \frac{11}{1745}, \frac{11}{1745}, -\frac{1}{1745}, \frac{22}{1745}, -\frac{13}{1745}, -\frac{13}{1745}, \frac{2}{349}, -\frac{2}{1745})$ $+\frac{1}{1745}\sqrt{1886}e^3 \otimes e_8 + \frac{2}{1745}\sqrt{326}e^4 \otimes e_9$	{126789, 139, 2347, 468, 126789, 139, 2347, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:243	$0, 0, 0, 0, 0, -\frac{101}{157}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{2}{157}\sqrt{4343}e^{24},$ $\frac{1}{157}\sqrt{18382}e^{15} + \frac{101}{157}e^{26} + \frac{1}{157}\sqrt{1515}e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+\frac{1}{157}\sqrt{28078}e^5 \otimes e_8$	{1236789, 12689, 134789, 1489, 238, 278, 3468, 4678, 1236789, 12689, 134789, 1489, 238, 278, 3468, 4678}
941:243	$0, 0, 0, 0, 0, \frac{101}{157}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{2}{157}\sqrt{4343}e^{24},$ $\frac{1}{157}\sqrt{18382}e^{15} + \frac{101}{157}e^{26} + \frac{1}{157}\sqrt{1515}e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+\frac{1}{157}\sqrt{28078}e^5 \otimes e_8$	{1236789, 12689, 134789, 1489, 238, 278, 3468, 4678, 1236789, 12689, 134789, 1489, 238, 278, 3468, 4678}
941:243	$0, 0, 0, 0, 0, -\frac{2}{227}\sqrt{9085}e^{12}, \frac{2}{227}\sqrt{7705}e^{13}, \frac{4}{227}\sqrt{690}e^{24},$ $\frac{2}{227}\sqrt{6095}e^{15} + \frac{8}{227}\sqrt{230}e^{26} + \frac{20}{227}\sqrt{23}e^{37}$	$(\frac{134}{227}, -\frac{48}{227}, -\frac{48}{227}, \frac{63}{227}, -\frac{96}{227}, \frac{86}{227}, \frac{86}{227}, \frac{15}{227}, \frac{38}{227})$ $+\frac{4}{227}\sqrt{5405}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:243	$0, 0, 0, 0, 0, \frac{2}{227}\sqrt{9085}e^{12}, \frac{2}{227}\sqrt{7705}e^{13}, \frac{4}{227}\sqrt{690}e^{24},$ $\frac{2}{227}\sqrt{6095}e^{15} + \frac{8}{227}\sqrt{230}e^{26} + \frac{20}{227}\sqrt{23}e^{37}$	$(\frac{134}{227}, -\frac{48}{227}, -\frac{48}{227}, \frac{63}{227}, -\frac{96}{227}, \frac{86}{227}, \frac{86}{227}, \frac{15}{227}, \frac{38}{227})$ $+\frac{4}{227}\sqrt{5405}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 3457, 3578, 45, 58, 2345678, 23567, 24568, 256, 3457, 3578, 45, 58}
941:243	$0, 0, 0, 0, 0, -\frac{68}{1405}\sqrt{11}e^{12}, \frac{153}{1405}\sqrt{14}e^{13}, \frac{17}{1405}\sqrt{862}e^{24},$ $\frac{68}{1405}\sqrt{26}e^{15} + \frac{68}{1405}\sqrt{23}e^{26} + \frac{17}{1405}\sqrt{942}e^{37}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, -\frac{34}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+\frac{17}{1405}\sqrt{1758}e^3 \otimes e_8 + \frac{272}{1405}\sqrt{3}e^1 \otimes e_5$	{23457, 258, 3567, 4568, 23457, 258, 3567, 4568}
941:243	$0, 0, 0, 0, 0, \frac{68}{1405}\sqrt{11}e^{12}, \frac{153}{1405}\sqrt{14}e^{13}, \frac{17}{1405}\sqrt{862}e^{24},$ $\frac{68}{1405}\sqrt{26}e^{15} + \frac{68}{1405}\sqrt{23}e^{26} + \frac{17}{1405}\sqrt{942}e^{37}$	$(\frac{51}{281}, -\frac{17}{1405}, -\frac{17}{1405}, -\frac{289}{1405}, -\frac{34}{1405}, \frac{238}{1405}, \frac{238}{1405}, -\frac{306}{1405}, \frac{221}{1405})$ $+\frac{17}{1405}\sqrt{1758}e^3 \otimes e_8 + \frac{272}{1405}\sqrt{3}e^1 \otimes e_5$	{23457, 258, 3567, 4568, 23457, 258, 3567, 4568}
941:243	$0, 0, 0, 0, 0, -\frac{1}{157}\sqrt{17877}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{1}{157}\sqrt{10706}e^{24},$ $\frac{4}{157}\sqrt{606}e^{15} + \frac{1}{157}\sqrt{17877}e^{26} + \frac{1}{157}\sqrt{1515}e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+\frac{1}{157}\sqrt{28078}e^2 \otimes e_4$	{123579, 1259, 1345679, 14569, 2356, 2567, 345, 457, 123579, 1259, 1345679, 14569, 2356, 2567, 345, 457}
941:243	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{17877}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{1}{157}\sqrt{10706}e^{24},$ $\frac{4}{157}\sqrt{606}e^{15} + \frac{1}{157}\sqrt{17877}e^{26} + \frac{1}{157}\sqrt{1515}e^{37}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+\frac{1}{157}\sqrt{28078}e^2 \otimes e_4$	{123579, 1259, 1345679, 14569, 2356, 2567, 345, 457, 123579, 1259, 1345679, 14569, 2356, 2567, 345, 457}
941:243	$0, 0, 0, 0, 0, -\frac{5}{233}\sqrt{55}e^{12}, \frac{25}{233}\sqrt{11}e^{13}, \frac{10}{233}\sqrt{110}e^{24},$ $\frac{10}{233}\sqrt{55}e^{15} + \frac{5}{233}\sqrt{165}e^{26} + \frac{5}{233}\sqrt{385}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1230}e^4 \otimes e_9 + \frac{5}{233}\sqrt{790}e^1 \otimes e_5$	{12389, 12789, 1369, 1679, 12389, 12789, 1369, 1679}
941:243	$0, 0, 0, 0, 0, \frac{5}{233}\sqrt{55}e^{12}, \frac{25}{233}\sqrt{11}e^{13}, \frac{10}{233}\sqrt{110}e^{24},$ $\frac{10}{233}\sqrt{55}e^{15} + \frac{5}{233}\sqrt{165}e^{26} + \frac{5}{233}\sqrt{385}e^{37}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+\frac{5}{233}\sqrt{1230}e^4 \otimes e_9 + \frac{5}{233}\sqrt{790}e^1 \otimes e_5$	{12389, 12789, 1369, 1679, 12389, 12789, 1369, 1679}
941:244	$0, 0, 0, 0, 0, \frac{6}{2617}\sqrt{120445}e^{12}, \frac{8}{2617}\sqrt{8502}e^{13}, \frac{2}{2617}\sqrt{542711}e^{24},$ $\frac{4}{2617}\sqrt{21255}e^{16} + \frac{6}{2617}\sqrt{126113}e^{25} + \frac{12}{2617}\sqrt{4251}e^{37}$	$(-\frac{192}{2617}, \frac{1434}{2617}, \frac{621}{2617}, -\frac{1400}{2617}, -\frac{384}{2617}, \frac{1242}{2617}, \frac{429}{2617}, \frac{34}{2617}, \frac{1050}{2617})$ $+\frac{20}{2617}\sqrt{31174}e^2 \otimes e_4$	{1345679, 14569, 2356, 2567}
941:244	$0, 0, 0, 0, 0, \frac{26}{905}\sqrt{91}e^{12}, \frac{52}{905}\sqrt{13}e^{13}, \frac{26}{905}\sqrt{287}e^{24},$ $\frac{52}{905}\sqrt{42}e^{16} + \frac{26}{905}\sqrt{47}e^{25} + \frac{26}{905}\sqrt{142}e^{37}$	$(-\frac{104}{905}, \frac{26}{905}, \frac{13}{905}, \frac{52}{905}, -\frac{208}{905}, \frac{26}{905}, -\frac{91}{905}, \frac{78}{905}, -\frac{78}{905})$ $+\frac{26}{905}\sqrt{358}e^2 \otimes e_5 + \frac{52}{905}\sqrt{111}e^4 \otimes e_9$	{1345678, 14568}
941:244	$0, 0, 0, 0, 0, \frac{93}{2669}\sqrt{130}e^{12}, \frac{31}{2669}\sqrt{2526}e^{13}, \frac{62}{2669}\sqrt{565}e^{24},$ $\frac{31}{2669}\sqrt{1230}e^{16} + \frac{372}{2669}\sqrt{3}e^{25} + \frac{62}{2669}\sqrt{570}e^{37}$	$(\frac{279}{2669}, \frac{93}{2669}, \frac{186}{2669}, -\frac{868}{2669}, \frac{558}{2669}, \frac{372}{2669}, \frac{465}{2669}, -\frac{775}{2669}, \frac{651}{2669})$ $+\frac{124}{2669}\sqrt{10}e^2 \otimes e_4 + \frac{31}{2669}\sqrt{4494}e^3 \otimes e_8$	{1256789, 4568}
941:244	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{327}e^{24},$ $\frac{2}{87}\sqrt{66}e^{16} + \frac{6}{29}\sqrt{3}e^{25} + \frac{2}{87}\sqrt{102}e^{37}$	$(\frac{4}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{2}{29}, 0, 0)$ $+\frac{2}{29}\sqrt{57}e^4 \otimes e_9 - \frac{2}{87}\sqrt{429}e^5 \otimes e_8$	{1359, 1579, 23457, 245}
941:244	$0, 0, 0, 0, 0, \frac{4}{29}\sqrt{5}e^{12}, \frac{4}{29}\sqrt{2}e^{13}, \frac{2}{87}\sqrt{327}e^{24},$ $\frac{2}{87}\sqrt{66}e^{16} + \frac{6}{29}\sqrt{3}e^{25} + \frac{2}{87}\sqrt{102}e^{37}$	$(\frac{4}{29}, -\frac{8}{29}, -\frac{2}{29}, \frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{2}{29}, 0, 0)$ $+\frac{2}{29}\sqrt{57}e^4 \otimes e_9 + \frac{2}{87}\sqrt{429}e^5 \otimes e_8$	{1359, 1579, 23457, 245}
941:244	$0, 0, 0, 0, 0, \frac{2}{99}\sqrt{119}e^{12}, \frac{8}{99}\sqrt{51}e^{13}, \frac{34}{99}\sqrt{5}e^{24},$ $\frac{8}{99}\sqrt{34}e^{16} + \frac{2}{99}\sqrt{1785}e^{25} + \frac{4}{99}\sqrt{34}e^{37}$	$(\frac{32}{99}, -\frac{26}{99}, \frac{1}{33}, -\frac{4}{33}, \frac{64}{99}, \frac{2}{33}, \frac{35}{99}, -\frac{38}{99}, \frac{38}{99})$ $+\frac{4}{99}\sqrt{1054}e^5 \otimes e_8$	{1348, 1478, 23789, 289}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:244	$0, 0, 0, 0, 0, \frac{2}{227}\sqrt{9085}e^{12}, \frac{4}{227}\sqrt{690}e^{13}, \frac{2}{227}\sqrt{7705}e^{24},$ $\frac{8}{227}\sqrt{230}e^{16} + \frac{2}{227}\sqrt{6095}e^{25} + \frac{20}{227}\sqrt{23}e^{37}$	$(-\frac{48}{227}, \frac{134}{227}, \frac{43}{227}, -\frac{28}{227}, -\frac{96}{227}, \frac{86}{227}, -\frac{5}{227}, \frac{106}{227}, \frac{38}{227})$ $+ \frac{4}{227}\sqrt{5405}e^2 \otimes e_5$	{1345678, 13567, 14568, 156}
941:244	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{305}e^{12}, \frac{1}{169}\sqrt{10126}e^{13}, \frac{5}{169}\sqrt{366}e^{24},$ $\frac{4}{169}\sqrt{305}e^{16} + \frac{4}{169}\sqrt{122}e^{25} + \frac{5}{169}\sqrt{366}e^{37}$	$(\frac{19}{169}, \frac{3}{169}, \frac{11}{169}, -\frac{53}{169}, \frac{38}{169}, \frac{22}{169}, \frac{30}{169}, -\frac{50}{169}, \frac{41}{169})$ $+ \frac{7}{169}\sqrt{366}e^3 \otimes e_8$	{1234569, 1256789, 3567, 4568}
941:244	$0, 0, 0, 0, 0, \frac{68}{1405}\sqrt{11}e^{12}, \frac{17}{1405}\sqrt{862}e^{13}, \frac{153}{1405}\sqrt{14}e^{24},$ $\frac{68}{1405}\sqrt{23}e^{16} + \frac{68}{1405}\sqrt{26}e^{25} + \frac{17}{1405}\sqrt{942}e^{37}$	$(-\frac{17}{1405}, \frac{51}{281}, \frac{119}{1405}, -\frac{85}{281}, -\frac{34}{1405}, \frac{238}{1405}, \frac{102}{1405}, -\frac{34}{281}, \frac{221}{1405})$ $+ \frac{17}{1405}\sqrt{1758}e^3 \otimes e_8 + \frac{272}{1405}\sqrt{3}e^2 \otimes e_5$	{3567, 4568}
941:244	$0, 0, 0, 0, 0, \frac{34}{3585}\sqrt{389}e^{12}, \frac{68}{3585}\sqrt{51}e^{13}, \frac{34}{3585}\sqrt{1209}e^{24},$ $\frac{68}{3585}\sqrt{287}e^{16} + \frac{34}{3585}\sqrt{431}e^{25} + \frac{136}{3585}\sqrt{23}e^{37}$	$(\frac{136}{1195}, -\frac{782}{3585}, -\frac{187}{3585}, \frac{204}{1195}, \frac{272}{1195}, -\frac{374}{3585}, \frac{221}{3585}, -\frac{34}{717}, \frac{34}{3585})$ $+ \frac{476}{1195}e^1 \otimes e_8 + \frac{68}{3585}\sqrt{359}e^4 \otimes e_9$	{34578, 458}
941:244	$0, 0, 0, 0, 0, \frac{138}{2629}\sqrt{85}e^{12}, \frac{46}{2629}\sqrt{138}e^{13}, \frac{46}{2629}\sqrt{439}e^{24},$ $\frac{92}{2629}\sqrt{165}e^{16} + \frac{46}{2629}\sqrt{3}e^{25} + \frac{46}{2629}e^{37}$	$(\frac{276}{2629}, \frac{138}{2629}, \frac{207}{2629}, -\frac{920}{2629}, \frac{552}{2629}, \frac{414}{2629}, \frac{483}{2629}, -\frac{782}{2629}, \frac{690}{2629})$ $+ \frac{138}{2629}\sqrt{170}e^1 \otimes e_8 + \frac{46}{2629}\sqrt{790}e^2 \otimes e_4$	{2356789, 25689}
941:244	$0, 0, 0, 0, 0, \frac{6}{2801}\sqrt{69865}e^{12}, \frac{12}{2801}\sqrt{6942}e^{13}, \frac{6}{2801}\sqrt{83749}e^{24},$ $\frac{36}{2801}\sqrt{2670}e^{16} + \frac{6}{2801}\sqrt{71823}e^{25} + \frac{12}{2801}\sqrt{1246}e^{37}$	$(\frac{624}{2801}, -\frac{478}{2801}, \frac{73}{2801}, \frac{500}{2801}, \frac{1248}{2801}, \frac{146}{2801}, \frac{697}{2801}, -\frac{978}{2801}, \frac{770}{2801})$ $+ \frac{12}{2801}\sqrt{52510}e^1 \otimes e_8$	{123459, 124579, 34578, 458}
941:244	$0, 0, 0, 0, 0, \frac{3}{1385}\sqrt{2770}e^{12}, \frac{3}{1385}\sqrt{4190}e^{13}, \frac{6}{1385}\sqrt{1405}e^{24},$ $\frac{3}{1385}\sqrt{910}e^{16} + \frac{12}{1385}\sqrt{15}e^{25} + \frac{30}{277}\sqrt{2}e^{37}$	$(\frac{15}{277}, -\frac{27}{277}, -\frac{6}{277}, \frac{12}{277}, \frac{30}{277}, -\frac{12}{277}, \frac{9}{277}, -\frac{15}{277}, \frac{3}{277})$ $+ \frac{12}{1385}\sqrt{310}e^4 \otimes e_9 + \frac{3}{1385}\sqrt{7630}e^3 \otimes e_8$	{1256789, 4568}
941:244	$0, 0, 0, 0, 0, \frac{2}{2841}\sqrt{288511}e^{12}, \frac{8}{2841}\sqrt{3291}e^{13}, \frac{2}{2841}\sqrt{1023501}e^{24},$ $\frac{4}{2841}\sqrt{168938}e^{16} + \frac{2}{2841}\sqrt{334585}e^{25} + \frac{16}{2841}\sqrt{10970}e^{37}$	$(\frac{32}{947}, -\frac{478}{2841}, -\frac{191}{2841}, \frac{636}{947}, \frac{64}{947}, -\frac{382}{2841}, -\frac{95}{2841}, \frac{1430}{2841}, -\frac{286}{2841})$ $+ \frac{4}{2841}\sqrt{642842}e^4 \otimes e_9$	{1359, 1579, 23457, 245}
941:246	$0, 0, 0, 0, 0, \frac{8}{2239}\sqrt{10382}e^{12}, \frac{8}{2239}\sqrt{8990}e^{13}, \frac{8}{2239}\sqrt{57478}e^{24},$ $\frac{16}{2239}\sqrt{435}e^{17} + \frac{8}{2239}\sqrt{32190}e^{26} + \frac{8}{2239}\sqrt{56434}e^{35}$	$(\frac{633}{2239}, \frac{72}{2239}, -\frac{489}{2239}, \frac{662}{2239}, \frac{1266}{2239}, \frac{705}{2239}, \frac{144}{2239}, -\frac{590}{2239}, \frac{777}{2239})$ $+ \frac{16}{2239}\sqrt{27695}e^5 \otimes e_8$	{124569, 159, 2345, 356}
941:246	$0, 0, 0, 0, 0, \frac{171}{875}\sqrt{2}e^{12}, \frac{38}{875}\sqrt{114}e^{13}, \frac{38}{875}\sqrt{91}e^{24},$ $\frac{38}{875}\sqrt{111}e^{17} + \frac{114}{875}e^{26} + \frac{76}{875}\sqrt{15}e^{35}$	$(\frac{114}{875}, \frac{57}{875}, 0, -\frac{304}{875}, \frac{228}{875}, \frac{171}{875}, \frac{114}{875}, -\frac{247}{875}, \frac{228}{875})$ $+ \frac{19}{875}\sqrt{1074}e^1 \otimes e_8 + \frac{38}{875}\sqrt{115}e^2 \otimes e_4$	{2568, 458}
941:246	$0, 0, 0, 0, 0, \frac{2}{763}\sqrt{63158}e^{12}, \frac{26}{2289}\sqrt{8238}e^{13}, \frac{2}{2289}\sqrt{359726}e^{24},$ $\frac{10}{2289}\sqrt{20595}e^{17} + \frac{2}{2289}\sqrt{50801}e^{26} + \frac{2}{2289}\sqrt{465447}e^{35}$	$(-\frac{566}{2289}, \frac{524}{2289}, \frac{538}{763}, \frac{7}{109}, -\frac{1132}{2289}, -\frac{2}{109}, \frac{1048}{2289}, \frac{671}{2289}, \frac{482}{2289})$ $+ \frac{4}{2289}\sqrt{645310}e^3 \otimes e_5$	{124567, 125678, 14578, 157}
941:246	$0, 0, 0, 0, 0, \frac{31}{7009}\sqrt{2298}e^{12}, \frac{31}{7009}\sqrt{370}e^{13}, \frac{31}{7009}\sqrt{6022}e^{24},$ $\frac{31}{7009}\sqrt{2410}e^{17} + \frac{155}{7009}\sqrt{70}e^{26} + \frac{124}{7009}\sqrt{286}e^{35}$	$(\frac{713}{7009}, -\frac{403}{7009}, \frac{1519}{7009}, \frac{868}{7009}, \frac{1426}{7009}, \frac{310}{7009}, \frac{806}{7009}, \frac{465}{7009}, -\frac{93}{7009})$ $+ \frac{31}{7009}\sqrt{6590}e^4 \otimes e_9 + \frac{62}{7009}\sqrt{1565}e^5 \otimes e_8$	{159, 2345}
941:246	$0, 0, 0, 0, 0, \frac{17}{625}\sqrt{2382}e^{12}, \frac{17}{625}\sqrt{2262}e^{13}, \frac{119}{625}\sqrt{66}e^{24},$ $\frac{17}{625}\sqrt{334}e^{17} + \frac{17}{625}\sqrt{22}e^{26} + \frac{34}{625}\sqrt{19}e^{35}$	$(-\frac{17}{125}, \frac{17}{625}, \frac{119}{625}, \frac{238}{625}, -\frac{34}{125}, -\frac{68}{625}, \frac{34}{625}, \frac{51}{125}, -\frac{51}{625})$ $+ \frac{17}{1875}\sqrt{6162}e^4 \otimes e_9 + \frac{34}{1875}\sqrt{933}e^3 \otimes e_5$	{23789, 3679}
941:246	$0, 0, 0, 0, 0, \frac{22}{1197}\sqrt{863}e^{12}, \frac{2}{1197}\sqrt{30205}e^{13}, \frac{2}{399}\sqrt{22438}e^{24},$ $\frac{2}{1197}\sqrt{168285}e^{17} + \frac{1}{1197}\sqrt{60410}e^{26} + \frac{2}{399}\sqrt{11219}e^{35}$	$(-\frac{16}{1197}, -\frac{59}{1197}, -\frac{34}{399}, \frac{81}{133}, -\frac{32}{1197}, -\frac{25}{399}, -\frac{118}{1197}, \frac{670}{1197}, -\frac{134}{1197})$ $+ \frac{1}{1197}\sqrt{1717370}e^4 \otimes e_9$	{12467, 1478, 23789, 3679}
941:246	$0, 0, 0, 0, 0, \frac{24}{2071}\sqrt{5587}e^{12}, \frac{8}{2071}\sqrt{15207}e^{13}, \frac{8}{2071}\sqrt{29045}e^{24},$ $\frac{72}{2071}\sqrt{370}e^{17} + \frac{24}{2071}\sqrt{4921}e^{26} + \frac{40}{2071}\sqrt{111}e^{35}$	$(\frac{63}{2071}, \frac{300}{2071}, \frac{537}{2071}, -\frac{884}{2071}, \frac{126}{2071}, \frac{363}{2071}, \frac{600}{2071}, -\frac{584}{2071}, \frac{663}{2071})$ $+ \frac{8}{2071}\sqrt{69190}e^2 \otimes e_4$	{12379, 134679, 267, 47}
941:246	$0, 0, 0, 0, 0, \frac{41}{3445}\sqrt{3082}e^{12}, \frac{123}{3445}\sqrt{30}e^{13}, \frac{246}{3445}\sqrt{51}e^{24},$ $\frac{82}{3445}\sqrt{449}e^{17} + \frac{82}{3445}\sqrt{758}e^{26} + \frac{82}{3445}\sqrt{30}e^{35}$	$(-\frac{41}{689}, \frac{41}{265}, \frac{1271}{3445}, -\frac{1148}{3445}, -\frac{82}{689}, \frac{328}{3445}, \frac{82}{265}, -\frac{123}{689}, \frac{861}{3445})$ $+ \frac{41}{3445}\sqrt{1546}e^3 \otimes e_5 + \frac{41}{3445}\sqrt{4738}e^2 \otimes e_4$	{2567, 457}
941:246	$0, 0, 0, 0, 0, \frac{132}{215}e^{12}, \frac{11}{215}\sqrt{6}e^{13}, \frac{44}{215}\sqrt{2}e^{24},$ $\frac{33}{215}\sqrt{10}e^{17} + \frac{33}{215}\sqrt{14}e^{26} + \frac{44}{215}\sqrt{3}e^{35}$	$(0, \frac{33}{215}, \frac{66}{215}, -\frac{88}{215}, 0, \frac{33}{215}, \frac{66}{215}, -\frac{11}{43}, \frac{66}{215})$ $+ \frac{176}{215}e^2 \otimes e_4 + \frac{33}{215}\sqrt{14}e^3 \otimes e_8$	{12379, 134679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:246	$0, 0, 0, 0, 0, \frac{36}{3005}\sqrt{137}e^{12}, \frac{54}{3005}\sqrt{93}e^{13}, \frac{18}{3005}\sqrt{1303}e^{24},$ $\frac{144}{3005}\sqrt{21}e^{17} + \frac{36}{3005}\sqrt{89}e^{26} + \frac{18}{3005}\sqrt{123}e^{35}$	$(\frac{207}{3005}, -\frac{108}{3005}, -\frac{423}{3005}, \frac{153}{3005}, \frac{414}{3005}, \frac{99}{3005}, -\frac{216}{3005}, \frac{9}{601}, -\frac{9}{3005})$ $+ \frac{18}{3005}\sqrt{1165}e^4 \otimes e_9 + \frac{18}{3005}\sqrt{1549}e^1 \otimes e_8$	{1359, 4568}
941:246	$0, 0, 0, 0, 0, \frac{4}{1153}\sqrt{28167}e^{12}, \frac{1}{1153}\sqrt{542730}e^{13}, \frac{4}{1153}\sqrt{50838}e^{24},$ $\frac{3}{1153}\sqrt{25190}e^{17} + \frac{1}{1153}\sqrt{405330}e^{26} + \frac{4}{1153}\sqrt{25419}e^{35}$	$(-\frac{64}{1153}, \frac{199}{1153}, \frac{462}{1153}, -\frac{424}{1153}, -\frac{128}{1153}, \frac{135}{1153}, \frac{398}{1153}, -\frac{225}{1153}, \frac{334}{1153})$ $+ \frac{1}{1153}\sqrt{1353390}e^3 \otimes e_8$	{123469, 139, 28, 468}
941:246	$0, 0, 0, 0, 0, \frac{132}{6685}\sqrt{142}e^{12}, \frac{33}{6685}\sqrt{6142}e^{13}, \frac{33}{6685}\sqrt{4478}e^{24},$ $\frac{33}{6685}\sqrt{5406}e^{17} + \frac{132}{6685}\sqrt{122}e^{26} + \frac{132}{6685}\sqrt{174}e^{35}$	$(-\frac{33}{6685}, \frac{99}{1337}, \frac{1023}{6685}, \frac{231}{955}, -\frac{66}{6685}, \frac{66}{955}, \frac{198}{1337}, -\frac{1122}{6685}, \frac{957}{6685})$ $+ \frac{264}{6685}\sqrt{65}e^3 \otimes e_5 + \frac{33}{6685}\sqrt{7966}e^1 \otimes e_8$	{258, 4568}
941:246	$0, 0, 0, 0, 0, \frac{8}{675}\sqrt{230}e^{12}, \frac{4}{675}\sqrt{685}e^{13}, \frac{4}{675}\sqrt{1590}e^{24},$ $\frac{8}{675}\sqrt{195}e^{17} + \frac{4}{135}\sqrt{19}e^{26} + \frac{4}{675}\sqrt{795}e^{35}$	$(-\frac{2}{27}, \frac{4}{135}, \frac{2}{15}, \frac{2}{45}, -\frac{4}{27}, -\frac{2}{45}, \frac{8}{135}, \frac{2}{27}, -\frac{2}{135})$ $+ \frac{4}{675}\sqrt{1635}e^3 \otimes e_8 + \frac{68}{675}\sqrt{5}e^4 \otimes e_9$	{139, 468}
941:246	$0, 0, 0, 0, 0, \frac{8}{235}\sqrt{103}e^{12}, \frac{1}{235}\sqrt{21630}e^{13}, \frac{1}{235}\sqrt{21630}e^{24},$ $\frac{11}{235}\sqrt{206}e^{17} + \frac{4}{235}\sqrt{618}e^{26} + \frac{1}{235}\sqrt{618}e^{35}$	$(\frac{41}{235}, \frac{9}{235}, -\frac{23}{235}, -\frac{71}{235}, \frac{82}{235}, \frac{10}{235}, \frac{18}{47}, \frac{18}{235}, -\frac{62}{235}, \frac{59}{235})$ $+ \frac{1}{235}\sqrt{41406}e^1 \otimes e_8$	{1234569, 1359, 258, 4568}
941:247	$0, 0, 0, 0, 0, \frac{62}{2013}\sqrt{574}e^{12}, \frac{248}{2013}\sqrt{19}e^{13},$ $\frac{310}{2013}\sqrt{26}e^{14} + \frac{62}{2013}\sqrt{311}e^{25}, \frac{992}{2013}e^{17} + \frac{62}{2013}\sqrt{173}e^{26} + \frac{124}{2013}\sqrt{38}e^{45}$	$(\frac{279}{671}, -\frac{124}{2013}, -\frac{1085}{2013}, -\frac{62}{671}, \frac{775}{2013}, \frac{713}{2013}, -\frac{248}{2013}, \frac{217}{671}, \frac{589}{2013})$ $- \frac{186}{671}\sqrt{21}e^1 \otimes e_3$	{14569, 1689, 348, 35}
941:247	$0, 0, 0, 0, 0, \frac{5}{201}\sqrt{830}e^{12}, \frac{10}{201}\sqrt{215}e^{13}, \frac{10}{201}\sqrt{65}e^{14} + \frac{5}{201}\sqrt{1110}e^{25},$ $\frac{5}{201}\sqrt{530}e^{17} + \frac{5}{201}\sqrt{310}e^{26} + \frac{10}{201}\sqrt{110}e^{45}$	$(-\frac{55}{201}, \frac{10}{67}, \frac{115}{201}, \frac{15}{67}, -\frac{40}{201}, -\frac{25}{201}, \frac{20}{67}, -\frac{10}{201}, \frac{5}{201})$ $+ \frac{10}{201}\sqrt{435}e^3 \otimes e_8$	{1234569, 248}
941:247	$0, 0, 0, 0, 0, \frac{62}{2013}\sqrt{574}e^{12}, \frac{248}{2013}\sqrt{19}e^{13},$ $\frac{310}{2013}\sqrt{26}e^{14} + \frac{62}{2013}\sqrt{311}e^{25}, \frac{992}{2013}e^{17} + \frac{62}{2013}\sqrt{173}e^{26} + \frac{124}{2013}\sqrt{38}e^{45}$	$(\frac{279}{671}, -\frac{124}{2013}, -\frac{1085}{2013}, -\frac{62}{671}, \frac{775}{2013}, \frac{713}{2013}, -\frac{248}{2013}, \frac{217}{671}, \frac{589}{2013})$ $+ \frac{186}{671}\sqrt{21}e^1 \otimes e_3$	{14569, 1689, 348, 35}
941:248	$0, 0, 0, 0, 0, \frac{1}{1111}\sqrt{4390}e^{12}, \frac{2}{1111}\sqrt{1235}e^{13},$ $\frac{2}{1111}\sqrt{1065}e^{14} + \frac{2}{1111}\sqrt{1235}e^{25}, \frac{2}{1111}\sqrt{895}e^{16} + \frac{1}{1111}\sqrt{6090}e^{37} + \frac{2}{1111}\sqrt{895}e^{45}$	$(-\frac{26}{1111}, \frac{42}{1111}, \frac{8}{1111}, \frac{29}{1111}, -\frac{39}{1111}, \frac{16}{1111}, -\frac{18}{1111}, \frac{3}{1111}, -\frac{10}{1111})$ $+ \frac{26}{1111}\sqrt{15}e^3 \otimes e_8$	{1234569, 126789}
941:249	$0, 0, 0, 0, 0, -\frac{52}{1539}\sqrt{69}e^{12}, \frac{13}{1539}\sqrt{1126}e^{13},$ $\frac{26}{1539}\sqrt{201}e^{14} + \frac{26}{1539}\sqrt{422}e^{25}, \frac{13}{1539}\sqrt{642}e^{26} + \frac{26}{1539}\sqrt{397}e^{37} + \frac{26}{513}\sqrt{29}e^{45}$	$(-\frac{260}{1539}, \frac{182}{1539}, \frac{182}{1539}, \frac{91}{513}, -\frac{169}{1539}, -\frac{26}{513}, -\frac{26}{513}, \frac{13}{1539}, \frac{104}{1539})$ $+ \frac{26}{513}\sqrt{77}e^3 \otimes e_8$	{1234569, 126789, 2357, 248, 1234569, 126789, 2357, 248}
941:249	$0, 0, 0, 0, 0, -\frac{52}{1539}\sqrt{69}e^{12}, \frac{13}{1539}\sqrt{1126}e^{13},$ $\frac{26}{1539}\sqrt{201}e^{14} + \frac{26}{1539}\sqrt{422}e^{25}, \frac{13}{1539}\sqrt{642}e^{26} + \frac{26}{1539}\sqrt{397}e^{37} + \frac{26}{513}\sqrt{29}e^{45}$	$(-\frac{260}{1539}, \frac{182}{1539}, \frac{182}{1539}, \frac{91}{513}, -\frac{169}{1539}, -\frac{26}{513}, -\frac{26}{513}, \frac{13}{1539}, \frac{104}{1539})$ $+ \frac{26}{513}\sqrt{77}e^3 \otimes e_8$	{1234569, 126789, 2357, 248, 1234569, 126789, 2357, 248}
941:251	$0, 0, 0, 0, 0, \frac{10}{563}\sqrt{226}e^{12}, \frac{30}{563}\sqrt{78}e^{13}, \frac{20}{563}\sqrt{263}e^{24} + \frac{20}{563}\sqrt{93}e^{35},$ $\frac{140}{563}\sqrt{6}e^{17} + \frac{20}{563}\sqrt{3}e^{26} + \frac{10}{563}\sqrt{618}e^{45}$	$(\frac{150}{563}, -\frac{20}{563}, -\frac{190}{563}, -\frac{30}{563}, \frac{140}{563}, \frac{130}{563}, -\frac{40}{563}, -\frac{50}{563}, \frac{110}{563})$ $+ \frac{10}{563}\sqrt{1938}e^1 \otimes e_8$	{1234569, 258}
941:252	$0, 0, 0, 0, 0, -\frac{8}{157}\sqrt{122}e^{12}, \frac{8}{157}\sqrt{122}e^{13}, \frac{16}{157}\sqrt{35}e^{24} + \frac{16}{157}\sqrt{35}e^{35},$ $\frac{16}{157}\sqrt{2}e^{26} + \frac{16}{157}\sqrt{2}e^{37} + \frac{8}{157}\sqrt{62}e^{45}$	$(\frac{96}{157}, -\frac{40}{157}, -\frac{40}{157}, \frac{8}{157}, \frac{8}{157}, \frac{56}{157}, \frac{56}{157}, -\frac{32}{157}, \frac{16}{157})$ $+ \frac{8}{157}\sqrt{518}e^1 \otimes e_8$	{123459, 1679, 2568, 123459, 1679, 2568}
941:252	$0, 0, 0, 0, 0, -\frac{8}{157}\sqrt{122}e^{12}, \frac{8}{157}\sqrt{122}e^{13}, \frac{16}{157}\sqrt{35}e^{24} + \frac{16}{157}\sqrt{35}e^{35},$ $\frac{16}{157}\sqrt{2}e^{26} + \frac{16}{157}\sqrt{2}e^{37} + \frac{8}{157}\sqrt{62}e^{45}$	$(\frac{96}{157}, -\frac{40}{157}, -\frac{40}{157}, \frac{8}{157}, \frac{8}{157}, \frac{56}{157}, \frac{56}{157}, -\frac{32}{157}, \frac{16}{157})$ $+ \frac{8}{157}\sqrt{518}e^1 \otimes e_8$	{123459, 1679, 2568, 123459, 1679, 2568}
941:254	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{2}e^{12}, \frac{1}{8}\sqrt{6}e^{13}, \frac{1}{8}\sqrt{10}e^{14} + \frac{1}{4}\sqrt{3}e^{23},$ $\frac{1}{4}\sqrt{6}e^{16} + \frac{1}{2}\sqrt{2}e^{24} + \frac{1}{4}\sqrt{7}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{8}\sqrt{106}e^5 \otimes e_9$	{1279, 58}
941:254	$0, 0, 0, 0, 0, \frac{14}{513}\sqrt{698}e^{12}, \frac{140}{513}\sqrt{2}e^{13}, \frac{14}{513}\sqrt{410}e^{14} + \frac{28}{513}\sqrt{58}e^{23},$ $\frac{112}{171}e^{16} + \frac{28}{513}\sqrt{105}e^{24} + \frac{14}{513}\sqrt{134}e^{37}$	$(\frac{14}{171}, \frac{70}{513}, \frac{56}{513}, \frac{28}{171}, -\frac{350}{513}, \frac{112}{513}, \frac{98}{513}, \frac{14}{57}, \frac{154}{513})$ $+ \frac{14}{513}\sqrt{1726}e^1 \otimes e_5$	{12479, 458}
941:254	$0, 0, 0, 0, 0, \frac{58}{977}\sqrt{131}e^{12}, \frac{145}{977}\sqrt{11}e^{13}, \frac{29}{977}\sqrt{483}e^{14} + \frac{58}{977}\sqrt{181}e^{23},$ $\frac{29}{977}\sqrt{341}e^{16} + \frac{116}{977}\sqrt{26}e^{24} + \frac{580}{977}e^{37}$	$(\frac{87}{977}, \frac{145}{977}, \frac{116}{977}, \frac{174}{977}, -\frac{696}{977}, \frac{232}{977}, \frac{203}{977}, \frac{261}{977}, \frac{319}{977})$ $+ \frac{29}{977}\sqrt{1673}e^2 \otimes e_5$	{12379, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:254	$0, 0, 0, 0, 0, \frac{2}{31}\sqrt{31}e^{12}, \frac{2}{31}\sqrt{93}e^{13}, \frac{2}{31}\sqrt{155}e^{14} + \frac{2}{31}\sqrt{186}e^{23},$ $\frac{1}{31}\sqrt{155}e^{16} + \frac{1}{31}\sqrt{341}e^{24} + \frac{1}{31}\sqrt{93}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{31}\sqrt{1643}e^5 \otimes e_8$	{13789, 235}
941:254	$0, 0, 0, 0, 0, \frac{152}{1335}\sqrt{15}e^{12}, \frac{133}{1335}\sqrt{66}e^{13},$ $\frac{19}{1335}\sqrt{174}e^{14} + \frac{247}{1335}\sqrt{6}e^{23}, \frac{38}{1335}\sqrt{393}e^{16} + \frac{19}{445}\sqrt{2}e^{24} + \frac{19}{267}\sqrt{114}e^{37}$	$(\frac{38}{445}, \frac{38}{267}, \frac{152}{1335}, \frac{76}{445}, -\frac{931}{1335}, \frac{304}{1335}, \frac{266}{1335}, \frac{114}{445}, \frac{418}{1335})$ $+ \frac{19}{1335}\sqrt{6798}e^3 \otimes e_5$	{12369, 3678}
941:254	$0, 0, 0, 0, 0, \frac{59}{1271}\sqrt{170}e^{12}, \frac{118}{3813}\sqrt{322}e^{13},$ $\frac{118}{1271}\sqrt{82}e^{14} + \frac{118}{3813}\sqrt{467}e^{23}, \frac{59}{3813}\sqrt{2378}e^{16} + \frac{59}{1271}\sqrt{362}e^{24} + \frac{1534}{3813}e^{37}$	$(\frac{118}{1271}, \frac{590}{3813}, \frac{472}{3813}, \frac{236}{1271}, -\frac{2773}{3813}, \frac{944}{3813}, \frac{826}{3813}, \frac{354}{1271}, \frac{1298}{3813})$ $+ \frac{59}{3813}\sqrt{6586}e^4 \otimes e_5$	{1235689, 3567}
941:255	$0, 0, 0, 0, 0, \frac{146}{4461}\sqrt{13}e^{12}, \frac{146}{4461}\sqrt{138}e^{13},$ $\frac{511}{1487}\sqrt{10}e^{14} + \frac{73}{4461}\sqrt{1418}e^{23}, \frac{146}{4461}\sqrt{302}e^{17} + \frac{146}{4461}\sqrt{433}e^{26} + \frac{73}{4461}\sqrt{1182}e^{45}$	$(-\frac{219}{1487}, \frac{511}{4461}, \frac{1679}{4461}, \frac{949}{1487}, -\frac{2482}{4461}, -\frac{146}{4461}, \frac{1022}{4461}, \frac{730}{1487}, \frac{365}{4461})$ $+ \frac{73}{4461}\sqrt{7534}e^4 \otimes e_5$	{2567, 478}
941:256	$0, 0, 0, 0, 0, -\frac{5}{42}\sqrt{6}e^{12}, \frac{5}{42}\sqrt{6}e^{13}, \frac{10}{21}\sqrt{5}e^{14} + \frac{5}{21}\sqrt{7}e^{23},$ $\frac{5}{42}\sqrt{22}e^{26} + \frac{5}{42}\sqrt{22}e^{37} + \frac{10}{21}\sqrt{2}e^{45}$	$(-\frac{5}{21}, \frac{5}{21}, \frac{5}{21}, \frac{5}{21}, -\frac{10}{21}, 0, 0, \frac{10}{21}, \frac{5}{21})$ $+ \frac{5}{21}\sqrt{35}e^4 \otimes e_5$	{1235678, 1246, 158, 1235678, 1246, 158}
941:256	$0, 0, 0, 0, 0, \frac{5}{42}\sqrt{6}e^{12}, \frac{5}{42}\sqrt{6}e^{13}, \frac{10}{21}\sqrt{5}e^{14} + \frac{5}{21}\sqrt{7}e^{23},$ $\frac{5}{42}\sqrt{22}e^{26} + \frac{5}{42}\sqrt{22}e^{37} + \frac{10}{21}\sqrt{2}e^{45}$	$(-\frac{5}{21}, \frac{5}{21}, \frac{5}{21}, \frac{5}{21}, -\frac{10}{21}, 0, 0, \frac{10}{21}, \frac{5}{21})$ $+ \frac{5}{21}\sqrt{35}e^4 \otimes e_5$	{1235678, 1246, 158, 1235678, 1246, 158}
941:258	$0, 0, 0, 0, 0, \frac{145}{5333}\sqrt{122}e^{12}, \frac{87}{5333}\sqrt{510}e^{13},$ $\frac{116}{5333}\sqrt{214}e^{14} + \frac{58}{5333}\sqrt{995}e^{25}, \frac{29}{5333}\sqrt{3478}e^{16} + \frac{116}{5333}\sqrt{103}e^{24} + \frac{116}{5333}\sqrt{329}e^{37}$	$(-\frac{145}{5333}, \frac{957}{5333}, \frac{406}{5333}, -\frac{290}{5333}, -\frac{1392}{5333}, \frac{812}{5333}, \frac{261}{5333}, -\frac{435}{5333}, \frac{667}{5333})$ $+ \frac{29}{5333}\sqrt{9470}e^3 \otimes e_8$	{1234569, 4568}
941:258	$0, 0, 0, 0, 0, \frac{740}{1297}\sqrt{2}e^{12}, \frac{37}{1297}\sqrt{37}e^{13},$ $\frac{37}{1297}\sqrt{305}e^{14} + \frac{74}{1297}\sqrt{79}e^{25}, \frac{37}{1297}\sqrt{15}e^{16} + \frac{74}{1297}\sqrt{213}e^{24} + \frac{74}{1297}\sqrt{39}e^{37}$	$(-\frac{37}{1297}, \frac{629}{1297}, \frac{296}{1297}, -\frac{74}{1297}, -\frac{740}{1297}, \frac{592}{1297}, \frac{259}{1297}, -\frac{111}{1297}, \frac{555}{1297})$ $+ \frac{37}{1297}\sqrt{2195}e^2 \otimes e_5$	{12379, 129}
941:258	$0, 0, 0, 0, 0, \frac{31}{1393}\sqrt{195}e^{12}, \frac{31}{1393}\sqrt{155}e^{13},$ $\frac{31}{1393}\sqrt{571}e^{14} + \frac{155}{1393}\sqrt{42}e^{25}, \frac{124}{1393}\sqrt{47}e^{16} + \frac{31}{1393}\sqrt{402}e^{24} + \frac{124}{1393}\sqrt{34}e^{37}$	$(\frac{155}{1393}, -\frac{403}{1393}, -\frac{124}{1393}, \frac{310}{1393}, \frac{124}{1393}, \frac{248}{1393}, \frac{31}{1393}, \frac{465}{1393}, -\frac{93}{1393})$ $+ \frac{31}{1393}\sqrt{2335}e^5 \otimes e_9$	{23457, 245}
941:259	$0, 0, 0, 0, 0, \frac{82}{3445}\sqrt{1157}e^{12}, \frac{82}{3445}\sqrt{454}e^{13},$ $\frac{41}{3445}\sqrt{1546}e^{14} + \frac{41}{3445}\sqrt{3382}e^{25}, \frac{41}{3445}\sqrt{3342}e^{17} + \frac{41}{3445}\sqrt{4578}e^{26} + \frac{82}{3445}\sqrt{30}e^{34}$	$(-\frac{41}{689}, \frac{41}{265}, \frac{1271}{3445}, -\frac{82}{689}, -\frac{1148}{3445}, \frac{328}{3445}, \frac{82}{265}, -\frac{123}{689}, \frac{861}{3445})$ $+ \frac{82}{3445}\sqrt{1571}e^2 \otimes e_5$	{123479, 1345679}
941:259	$0, 0, 0, 0, 0, \frac{11}{485}\sqrt{442}e^{12}, \frac{77}{485}\sqrt{6}e^{13}, \frac{11}{485}\sqrt{718}e^{14} + \frac{44}{485}\sqrt{69}e^{25},$ $\frac{11}{485}\sqrt{230}e^{17} + \frac{22}{485}\sqrt{53}e^{26} + \frac{22}{485}\sqrt{138}e^{34}$	$(\frac{11}{97}, -\frac{44}{485}, -\frac{143}{485}, \frac{22}{97}, \frac{209}{485}, \frac{11}{485}, -\frac{88}{485}, \frac{33}{97}, -\frac{33}{485})$ $+ \frac{77}{485}\sqrt{34}e^5 \otimes e_9$	{139, 568}
941:260	$0, 0, 0, 0, 0, -\frac{37}{1441}\sqrt{717}e^{12}, \frac{37}{1441}\sqrt{629}e^{13},$ $\frac{37}{1441}\sqrt{498}e^{15} + \frac{148}{1441}\sqrt{11}e^{24}, \frac{1441}{1441}\sqrt{194}e^{14} + \frac{37}{1441}\sqrt{15}e^{26} + \frac{37}{1441}\sqrt{103}e^{37}$	$(\frac{629}{1441}, -\frac{37}{1441}, -\frac{37}{1441}, -\frac{74}{1441}, -\frac{740}{1441}, \frac{592}{1441}, \frac{592}{1441}, -\frac{111}{1441}, \frac{555}{1441})$ $+ \frac{333}{1441}\sqrt{30}e^1 \otimes e_5$	{1346, 1467, 34579, 459, 1346, 1467, 34579, 459}
941:260	$0, 0, 0, 0, 0, \frac{37}{1441}\sqrt{717}e^{12}, \frac{37}{1441}\sqrt{629}e^{13},$ $\frac{37}{1441}\sqrt{498}e^{15} + \frac{148}{1441}\sqrt{11}e^{24}, \frac{1441}{1441}\sqrt{194}e^{14} + \frac{37}{1441}\sqrt{15}e^{26} + \frac{37}{1441}\sqrt{103}e^{37}$	$(\frac{629}{1441}, -\frac{37}{1441}, -\frac{37}{1441}, -\frac{74}{1441}, -\frac{740}{1441}, \frac{592}{1441}, \frac{592}{1441}, -\frac{111}{1441}, \frac{555}{1441})$ $+ \frac{333}{1441}\sqrt{30}e^1 \otimes e_5$	{1346, 1467, 34579, 459, 1346, 1467, 34579, 459}
941:260	$0, 0, 0, 0, 0, -\frac{6}{727}\sqrt{173}e^{12}, \frac{6}{727}\sqrt{349}e^{13}, \frac{12}{727}\sqrt{38}e^{15} + \frac{6}{727}\sqrt{394}e^{24},$ $\frac{6}{727}\sqrt{299}e^{14} + \frac{18}{727}\sqrt{15}e^{26} + \frac{18}{727}\sqrt{43}e^{37}$	$(\frac{48}{727}, -\frac{9}{727}, -\frac{9}{727}, -\frac{18}{727}, -\frac{75}{727}, \frac{39}{727}, \frac{39}{727}, -\frac{27}{727}, \frac{30}{727})$ $+ \frac{30}{727}\sqrt{26}e^3 \otimes e_8$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
941:260	$0, 0, 0, 0, 0, \frac{6}{727}\sqrt{173}e^{12}, \frac{6}{727}\sqrt{349}e^{13}, \frac{12}{727}\sqrt{38}e^{15} + \frac{6}{727}\sqrt{394}e^{24},$ $\frac{6}{727}\sqrt{299}e^{14} + \frac{18}{727}\sqrt{15}e^{26} + \frac{18}{727}\sqrt{43}e^{37}$	$(\frac{48}{727}, -\frac{9}{727}, -\frac{9}{727}, -\frac{18}{727}, -\frac{75}{727}, \frac{39}{727}, \frac{39}{727}, -\frac{27}{727}, \frac{30}{727})$ $+ \frac{30}{727}\sqrt{26}e^3 \otimes e_8$	{1234569, 14789, 2347, 4568, 1234569, 14789, 2347, 4568}
941:260	$0, 0, 0, 0, 0, -\frac{31}{1465}\sqrt{57}e^{12}, \frac{31}{1465}\sqrt{403}e^{13},$ $\frac{31}{1465}\sqrt{1194}e^{15} + \frac{62}{1465}\sqrt{173}e^{24}, \frac{62}{293}\sqrt{5}e^{14} + \frac{527}{1465}\sqrt{3}e^{26} + \frac{31}{1465}\sqrt{521}e^{37}$	$(-\frac{403}{1465}, \frac{31}{293}, \frac{31}{293}, \frac{62}{293}, \frac{868}{1465}, -\frac{248}{1465}, -\frac{248}{1465}, \frac{93}{293}, -\frac{93}{1465})$ $+ \frac{93}{1465}\sqrt{278}e^5 \otimes e_9$	{13457, 145, 3469, 4679, 13457, 145, 3469, 4679}
941:260	$0, 0, 0, 0, 0, \frac{31}{1465}\sqrt{57}e^{12}, \frac{31}{1465}\sqrt{403}e^{13},$ $\frac{31}{1465}\sqrt{1194}e^{15} + \frac{62}{1465}\sqrt{173}e^{24}, \frac{62}{293}\sqrt{5}e^{14} + \frac{527}{1465}\sqrt{3}e^{26} + \frac{31}{1465}\sqrt{521}e^{37}$	$(-\frac{403}{1465}, \frac{31}{293}, \frac{31}{293}, \frac{62}{293}, \frac{868}{1465}, -\frac{248}{1465}, -\frac{248}{1465}, \frac{93}{293}, -\frac{93}{1465})$ $+ \frac{93}{1465}\sqrt{278}e^5 \otimes e_9$	{13457, 145, 3469, 4679, 13457, 145, 3469, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:262	$0, 0, 0, 0, 0, \frac{154}{1741}\sqrt{3}e^{12}, \frac{14}{1741}\sqrt{929}e^{13},$ $\frac{63}{1741}\sqrt{38}e^{15} + \frac{7}{1741}\sqrt{3058}e^{24}, \frac{7}{1741}\sqrt{4142}e^{17} + \frac{21}{1741}\sqrt{142}e^{26} + \frac{392}{1741}e^{34}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{14}{1741}\sqrt{813}e^1 \otimes e_5$	{123469, 245}
941:262	$0, 0, 0, 0, 0, \frac{37}{1933}\sqrt{1122}e^{12}, \frac{148}{1933}\sqrt{86}e^{13},$ $\frac{74}{1933}\sqrt{129}e^{15} + \frac{37}{1933}\sqrt{1578}e^{24}, \frac{333}{1933}\sqrt{6}e^{17} + \frac{37}{1933}\sqrt{606}e^{26} + \frac{74}{1933}\sqrt{86}e^{34}$	$(-\frac{333}{1933}, \frac{370}{1933}, \frac{1073}{1933}, -\frac{666}{1933}, \frac{37}{1933}, \frac{37}{1933}, \frac{740}{1933}, -\frac{296}{1933}, \frac{407}{1933})$ $+ \frac{222}{1933}\sqrt{91}e^3 \otimes e_8$	{1359, 258}
941:262	$0, 0, 0, 0, 0, \frac{210}{1741}\sqrt{2}e^{12}, \frac{14}{1741}\sqrt{697}e^{13},$ $\frac{7}{1741}\sqrt{3426}e^{15} + \frac{7}{1741}\sqrt{3446}e^{24}, \frac{7}{1741}\sqrt{2362}e^{17} + \frac{7}{1741}\sqrt{1974}e^{26} + \frac{14}{1741}\sqrt{842}e^{34}$	$(\frac{77}{1741}, -\frac{49}{1741}, -\frac{175}{1741}, \frac{154}{1741}, \frac{28}{1741}, \frac{28}{1741}, -\frac{98}{1741}, \frac{105}{1741}, -\frac{21}{1741})$ $+ \frac{14}{1741}\sqrt{813}e^5 \otimes e_9$	{136789, 578}
941:263	$0, 0, 0, 0, 0, -\frac{3}{124}\sqrt{15}e^{12}, \frac{3}{124}\sqrt{15}e^{13}, \frac{1}{124}\sqrt{282}e^{23} + \frac{1}{62}\sqrt{62}e^{45},$ $\frac{1}{124}\sqrt{214}e^{14} + \frac{1}{124}\sqrt{186}e^{26} + \frac{1}{124}\sqrt{186}e^{37}$	$(-\frac{3}{62}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, 0, -\frac{7}{248}, -\frac{7}{248}, \frac{5}{124}, -\frac{1}{124})$ $+ \frac{1}{62}\sqrt{51}e^5 \otimes e_9$	{123489, 146789, 2456, 123489, 146789, 2456}
941:263	$0, 0, 0, 0, 0, \frac{3}{124}\sqrt{15}e^{12}, \frac{3}{124}\sqrt{15}e^{13}, \frac{1}{124}\sqrt{282}e^{23} + \frac{1}{62}\sqrt{62}e^{45},$ $\frac{1}{124}\sqrt{214}e^{14} + \frac{1}{124}\sqrt{186}e^{26} + \frac{1}{124}\sqrt{186}e^{37}$	$(-\frac{3}{62}, \frac{5}{248}, \frac{5}{248}, \frac{5}{124}, 0, -\frac{7}{248}, -\frac{7}{248}, \frac{5}{124}, -\frac{1}{124})$ $+ \frac{1}{62}\sqrt{51}e^5 \otimes e_9$	{123489, 146789, 2456, 123489, 146789, 2456}
941:263	$0, 0, 0, 0, 0, -\frac{1}{8}\sqrt{30}e^{12}, \frac{1}{8}\sqrt{30}e^{13}, \frac{1}{4}\sqrt{13}e^{23} + \frac{1}{4}\sqrt{10}e^{45},$ $e^{14} + \frac{1}{8}\sqrt{30}e^{26} + \frac{1}{8}\sqrt{30}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+ \frac{3}{4}e^4 \otimes e_5$	{1235679, 159, 235, 567, 1235679, 159, 235, 567}
941:263	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{30}e^{12}, \frac{1}{8}\sqrt{30}e^{13}, \frac{1}{4}\sqrt{13}e^{23} + \frac{1}{4}\sqrt{10}e^{45},$ $e^{14} + \frac{1}{8}\sqrt{30}e^{26} + \frac{1}{8}\sqrt{30}e^{37}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+ \frac{3}{4}e^4 \otimes e_5$	{1235679, 159, 235, 567, 1235679, 159, 235, 567}
941:263	$0, 0, 0, 0, 0, -\frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{4}\sqrt{6}e^{23} + \frac{1}{2}e^{45},$ $\frac{1}{4}\sqrt{6}e^{14} + \frac{1}{4}\sqrt{2}e^{26} + \frac{1}{4}\sqrt{2}e^{37}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, 0, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_8$	{12345, 14567, 24689, 12345, 14567, 24689}
941:263	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}\sqrt{3}e^{13}, \frac{1}{4}\sqrt{6}e^{23} + \frac{1}{2}e^{45},$ $\frac{1}{4}\sqrt{6}e^{14} + \frac{1}{4}\sqrt{2}e^{26} + \frac{1}{4}\sqrt{2}e^{37}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, 0, \frac{3}{8}, \frac{3}{8}, -\frac{1}{4}, \frac{1}{4})$ $+ \frac{1}{2}\sqrt{5}e^1 \otimes e_8$	{12345, 14567, 24689, 12345, 14567, 24689}
941:264	$0, 0, 0, 0, 0, \frac{28}{2291}\sqrt{993}e^{12}, \frac{168}{2291}\sqrt{5}e^{13},$ $\frac{28}{2291}\sqrt{598}e^{23} + \frac{28}{2291}\sqrt{933}e^{45}, \frac{56}{2291}\sqrt{310}e^{16} + \frac{28}{2291}\sqrt{1106}e^{24} + \frac{28}{2291}\sqrt{143}e^{37}$	$(\frac{238}{2291}, -\frac{182}{2291}, \frac{28}{2291}, \frac{476}{2291}, -\frac{630}{2291}, \frac{56}{2291}, \frac{266}{2291}, -\frac{154}{2291}, \frac{294}{2291})$ $+ \frac{56}{2291}\sqrt{497}e^1 \otimes e_8$	{1234579, 348}
941:264	$0, 0, 0, 0, 0, \frac{35}{1033}\sqrt{319}e^{12}, \frac{35}{1033}\sqrt{393}e^{13},$ $\frac{35}{1033}\sqrt{191}e^{23} + \frac{70}{1033}\sqrt{47}e^{45}, \frac{210}{1033}\sqrt{10}e^{16} + \frac{70}{1033}\sqrt{266}e^{24} + \frac{70}{1033}\sqrt{17}e^{37}$	$(\frac{595}{2066}, -\frac{245}{2066}, \frac{175}{2066}, \frac{595}{1033}, -\frac{630}{1033}, \frac{175}{1033}, \frac{385}{1033}, -\frac{35}{1033}, \frac{945}{2066})$ $+ \frac{35}{1033}\sqrt{1757}e^4 \otimes e_5$	{135, 259}
941:264	$0, 0, 0, 0, 0, \frac{56}{2349}\sqrt{229}e^{12}, \frac{56}{2349}\sqrt{130}e^{13},$ $\frac{224}{2349}\sqrt{39}e^{23} + \frac{56}{2349}\sqrt{921}e^{45}, \frac{112}{2349}\sqrt{102}e^{16} + \frac{56}{2349}\sqrt{210}e^{24} + \frac{56}{2349}\sqrt{785}e^{37}$	$(-\frac{364}{2349}, \frac{196}{783}, \frac{112}{2349}, -\frac{728}{2349}, \frac{476}{783}, \frac{224}{2349}, -\frac{28}{261}, \frac{700}{2349}, -\frac{140}{2349})$ $+ \frac{56}{2349}\sqrt{1946}e^5 \otimes e_9$	{1279, 58}
941:266	$0, 0, 0, 0, 0, -\frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{105}e^{13}, \frac{5}{173}\sqrt{110}e^{24} + \frac{5}{173}\sqrt{590}e^{35},$ $\frac{20}{173}\sqrt{30}e^{14} + \frac{5}{173}\sqrt{15}e^{26} + \frac{5}{173}\sqrt{255}e^{37}$	$(\frac{80}{173}, -\frac{15}{173}, -\frac{15}{173}, -\frac{30}{173}, -\frac{30}{173}, \frac{65}{173}, \frac{65}{173}, -\frac{45}{173}, \frac{50}{173})$ $+ \frac{60}{173}\sqrt{10}e^1 \otimes e_8$	{12345, 1247, 34789, 4589, 12345, 1247, 34789, 4589}
941:266	$0, 0, 0, 0, 0, \frac{5}{173}\sqrt{345}e^{12}, \frac{5}{173}\sqrt{105}e^{13}, \frac{5}{173}\sqrt{110}e^{24} + \frac{5}{173}\sqrt{590}e^{35},$ $\frac{20}{173}\sqrt{30}e^{14} + \frac{5}{173}\sqrt{15}e^{26} + \frac{5}{173}\sqrt{255}e^{37}$	$(\frac{80}{173}, -\frac{15}{173}, -\frac{15}{173}, -\frac{30}{173}, -\frac{30}{173}, \frac{65}{173}, \frac{65}{173}, -\frac{45}{173}, \frac{50}{173})$ $+ \frac{60}{173}\sqrt{10}e^1 \otimes e_8$	{12345, 1247, 34789, 4589, 12345, 1247, 34789, 4589}
941:266	$0, 0, 0, 0, 0, -\frac{78}{781}\sqrt{10}e^{12}, \frac{26}{781}\sqrt{205}e^{13}, \frac{299}{781}\sqrt{2}e^{24} + \frac{13}{781}\sqrt{1302}e^{35},$ $\frac{52}{781}\sqrt{59}e^{14} + \frac{13}{781}\sqrt{714}e^{26} + \frac{13}{781}\sqrt{466}e^{37}$	$(-\frac{169}{781}, \frac{65}{781}, \frac{65}{781}, \frac{130}{781}, \frac{130}{781}, \frac{104}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{354}e^5 \otimes e_9$	{129, 136789, 2356, 578, 129, 136789, 2356, 578}
941:266	$0, 0, 0, 0, 0, \frac{78}{781}\sqrt{10}e^{12}, \frac{26}{781}\sqrt{205}e^{13}, \frac{299}{781}\sqrt{2}e^{24} + \frac{13}{781}\sqrt{1302}e^{35},$ $\frac{52}{781}\sqrt{59}e^{14} + \frac{13}{781}\sqrt{714}e^{26} + \frac{13}{781}\sqrt{466}e^{37}$	$(-\frac{169}{781}, \frac{65}{781}, \frac{65}{781}, \frac{130}{781}, \frac{130}{781}, \frac{104}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{781}\sqrt{354}e^5 \otimes e_9$	{129, 136789, 2356, 578, 129, 136789, 2356, 578}
941:266	$0, 0, 0, 0, 0, -\frac{1}{46}\sqrt{30}e^{12}, \frac{1}{46}\sqrt{86}e^{13}, \frac{1}{46}\sqrt{67}e^{24} + \frac{1}{46}\sqrt{78}e^{35},$ $\frac{1}{46}\sqrt{58}e^{14} + \frac{1}{46}\sqrt{30}e^{26} + \frac{1}{46}\sqrt{86}e^{37}$	$(\frac{7}{92}, -\frac{1}{46}, -\frac{1}{46}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^3 \otimes e_5$	{123469, 1245679, 2347, 245, 123469, 1245679, 2347, 245}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:266	$0, 0, 0, 0, 0, \frac{1}{46}\sqrt{30}e^{12}, \frac{1}{46}\sqrt{86}e^{13}, \frac{1}{46}\sqrt{67}e^{24} + \frac{1}{46}\sqrt{78}e^{35},$ $\frac{1}{46}\sqrt{58}e^{14} + \frac{1}{46}\sqrt{30}e^{26} + \frac{1}{46}\sqrt{86}e^{37}$	$(\frac{7}{92}, -\frac{1}{46}, -\frac{1}{46}, -\frac{1}{23}, -\frac{1}{23}, \frac{5}{92}, \frac{5}{92}, -\frac{3}{46}, \frac{3}{92})$ $+ \frac{1}{46}\sqrt{87}e^3 \otimes e_5$	{123469, 1245679, 2347, 245, 123469, 1245679, 2347, 245}
941:268	$0, 0, 0, 0, 0, \frac{43}{3325}\sqrt{1902}e^{12}, \frac{43}{3325}\sqrt{2026}e^{13},$ $\frac{43}{3325}\sqrt{2858}e^{24} + \frac{43}{3325}\sqrt{3210}e^{35}, \frac{86}{3325}\sqrt{29}e^{17} + \frac{344}{3325}\sqrt{39}e^{26} + \frac{172}{3325}\sqrt{119}e^{34}$	$(\frac{473}{3325}, -\frac{43}{475}, -\frac{43}{133}, \frac{946}{3325}, \frac{344}{665}, \frac{172}{3325}, -\frac{86}{475}, \frac{129}{665}, -\frac{129}{3325})$ $+ \frac{172}{3325}\sqrt{357}e^5 \otimes e_9$	{1469, 345}
941:268	$0, 0, 0, 0, 0, \frac{59}{3229}\sqrt{498}e^{12}, \frac{59}{3229}\sqrt{2078}e^{13},$ $\frac{59}{3229}\sqrt{406}e^{24} + \frac{59}{3229}\sqrt{1086}e^{35}, \frac{118}{3229}\sqrt{11}e^{17} + \frac{118}{3229}\sqrt{102}e^{26} + \frac{236}{3229}\sqrt{113}e^{34}$	$(-\frac{295}{3229}, \frac{767}{3229}, \frac{1829}{3229}, \frac{590}{3229}, -\frac{1652}{3229}, \frac{472}{3229}, \frac{1534}{3229}, \frac{177}{3229}, \frac{1239}{3229})$ $+ \frac{236}{3229}\sqrt{339}e^3 \otimes e_5$	{139, 56}
941:268	$0, 0, 0, 0, 0, \frac{1}{3301}\sqrt{2290}e^{12}, \frac{6}{3301}\sqrt{113}e^{13}, \frac{11}{3301}\sqrt{38}e^{24} + \frac{4}{3301}\sqrt{39}e^{35},$ $\frac{3}{3301}\sqrt{534}e^{17} + \frac{1}{3301}\sqrt{1590}e^{26} + \frac{4}{3301}\sqrt{246}e^{34}$	$(\frac{9}{3301}, -\frac{10}{3301}, -\frac{29}{3301}, \frac{18}{3301}, \frac{37}{3301}, -\frac{1}{3301}, -\frac{20}{3301}, \frac{8}{3301}, -\frac{11}{3301})$ $+ \frac{12}{3301}\sqrt{41}e^1 \otimes e_8$	{1234569, 4568}
941:269	$0, 0, 0, 0, 0, -\frac{15}{236}\sqrt{118}e^{12}, \frac{15}{236}\sqrt{118}e^{13}, \frac{15}{59}\sqrt{5}e^{14} + \frac{15}{236}\sqrt{26}e^{23},$ $\frac{15}{236}\sqrt{106}e^{15} + \frac{15}{236}e^{26} + \frac{15}{236}e^{37}$	$(\frac{105}{236}, -\frac{15}{472}, -\frac{15}{472}, \frac{30}{59}, -\frac{15}{236}, \frac{195}{472}, \frac{195}{472}, -\frac{15}{236}, \frac{45}{118})$ $+ \frac{45}{118}\sqrt{11}e^1 \otimes e_4$	{1257, 24569, 1257, 24569}
941:269	$0, 0, 0, 0, 0, \frac{15}{236}\sqrt{118}e^{12}, \frac{15}{236}\sqrt{118}e^{13}, \frac{15}{59}\sqrt{5}e^{14} + \frac{15}{236}\sqrt{26}e^{23},$ $\frac{15}{236}\sqrt{106}e^{15} + \frac{15}{236}e^{26} + \frac{15}{236}e^{37}$	$(\frac{105}{236}, -\frac{15}{472}, -\frac{15}{472}, \frac{30}{59}, -\frac{15}{236}, \frac{195}{472}, \frac{195}{472}, -\frac{15}{236}, \frac{45}{118})$ $+ \frac{45}{118}\sqrt{11}e^1 \otimes e_4$	{1257, 24569, 1257, 24569}
941:269	$0, 0, 0, 0, 0, -\frac{12}{245}\sqrt{19}e^{12}, \frac{12}{245}\sqrt{19}e^{13}, \frac{12}{245}\sqrt{226}e^{14} + \frac{12}{245}\sqrt{182}e^{23},$ $\frac{24}{245}\sqrt{11}e^{15} + \frac{12}{245}\sqrt{179}e^{26} + \frac{12}{245}\sqrt{179}e^{37}$	$(-\frac{72}{245}, \frac{6}{49}, \frac{6}{49}, \frac{132}{245}, \frac{12}{49}, -\frac{6}{35}, -\frac{6}{35}, \frac{12}{49}, -\frac{12}{245})$ $+ \frac{36}{245}\sqrt{46}e^4 \otimes e_9$	{123589, 156789, 2345678, 458, 123589, 156789, 2345678, 458}
941:269	$0, 0, 0, 0, 0, \frac{12}{245}\sqrt{19}e^{12}, \frac{12}{245}\sqrt{19}e^{13}, \frac{12}{245}\sqrt{226}e^{14} + \frac{12}{245}\sqrt{182}e^{23},$ $\frac{24}{245}\sqrt{11}e^{15} + \frac{12}{245}\sqrt{179}e^{26} + \frac{12}{245}\sqrt{179}e^{37}$	$(-\frac{72}{245}, \frac{6}{49}, \frac{6}{49}, \frac{132}{245}, \frac{12}{49}, -\frac{6}{35}, -\frac{6}{35}, \frac{12}{49}, -\frac{12}{245})$ $+ \frac{36}{245}\sqrt{46}e^4 \otimes e_9$	{123589, 156789, 2345678, 458, 123589, 156789, 2345678, 458}
941:269	$0, 0, 0, 0, 0, -\frac{3}{79}\sqrt{222}e^{12}, \frac{3}{79}\sqrt{222}e^{13}, \frac{3}{79}\sqrt{222}e^{14} + \frac{3}{79}\sqrt{318}e^{23},$ $\frac{3}{79}\sqrt{318}e^{15} + \frac{3}{79}\sqrt{174}e^{26} + \frac{3}{79}\sqrt{174}e^{37}$	$(\frac{21}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{27}{79}, \frac{6}{79}, \frac{18}{79}, \frac{18}{79}, -\frac{6}{79}, \frac{15}{79})$ $+ \frac{9}{79}\sqrt{46}e^1 \otimes e_5$	{2345678, 256, 458, 2345678, 256, 458}
941:269	$0, 0, 0, 0, 0, \frac{3}{79}\sqrt{222}e^{12}, \frac{3}{79}\sqrt{222}e^{13}, \frac{3}{79}\sqrt{222}e^{14} + \frac{3}{79}\sqrt{318}e^{23},$ $\frac{3}{79}\sqrt{318}e^{15} + \frac{3}{79}\sqrt{174}e^{26} + \frac{3}{79}\sqrt{174}e^{37}$	$(\frac{21}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{27}{79}, \frac{6}{79}, \frac{18}{79}, \frac{18}{79}, -\frac{6}{79}, \frac{15}{79})$ $+ \frac{9}{79}\sqrt{46}e^1 \otimes e_5$	{2345678, 256, 458, 2345678, 256, 458}
941:270	$0, 0, 0, 0, 0, \frac{90}{3341}\sqrt{863}e^{12}, \frac{90}{3341}\sqrt{94}e^{13},$ $\frac{45}{3341}\sqrt{2566}e^{14} + \frac{45}{3341}\sqrt{778}e^{23}, \frac{45}{3341}\sqrt{3890}e^{16} + \frac{45}{3341}\sqrt{2262}e^{25} + \frac{90}{3341}\sqrt{134}e^{37}$	$(\frac{765}{3341}, -\frac{45}{257}, \frac{90}{3341}, -\frac{1260}{3341}, \frac{1530}{3341}, \frac{180}{3341}, \frac{855}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+ \frac{90}{3341}\sqrt{1471}e^1 \otimes e_4$	{1567, 2345679}
941:270	$0, 0, 0, 0, 0, \frac{86}{3541}\sqrt{347}e^{12}, \frac{688}{3541}\sqrt{3}e^{13},$ $\frac{43}{3541}\sqrt{3814}e^{14} + \frac{43}{3541}\sqrt{2654}e^{23}, \frac{43}{3541}\sqrt{1086}e^{16} + \frac{43}{3541}\sqrt{3226}e^{25} + \frac{86}{3541}\sqrt{633}e^{37}$	$(-\frac{559}{3541}, \frac{903}{3541}, \frac{172}{3541}, \frac{1634}{3541}, -\frac{1118}{3541}, \frac{344}{3541}, -\frac{387}{3541}, \frac{1075}{3541}, -\frac{215}{3541})$ $+ \frac{86}{3541}\sqrt{1523}e^4 \otimes e_9$	{123689, 468}
941:270	$0, 0, 0, 0, 0, \frac{360}{3341}\sqrt{38}e^{12}, \frac{90}{3341}\sqrt{94}e^{13},$ $\frac{45}{3341}\sqrt{3318}e^{14} + \frac{45}{3341}\sqrt{778}e^{23}, \frac{45}{3341}\sqrt{1994}e^{16} + \frac{45}{3341}\sqrt{3622}e^{25} + \frac{90}{3341}\sqrt{134}e^{37}$	$(\frac{765}{3341}, -\frac{45}{257}, \frac{90}{3341}, -\frac{1260}{3341}, \frac{1530}{3341}, \frac{180}{3341}, \frac{855}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+ \frac{90}{3341}\sqrt{1471}e^5 \otimes e_8$	{138, 2489}
941:270	$0, 0, 0, 0, 0, \frac{66}{197}\sqrt{6}e^{12}, \frac{11}{197}\sqrt{161}e^{13}, \frac{11}{197}\sqrt{161}e^{14} + \frac{176}{197}e^{23},$ $\frac{11}{197}\sqrt{209}e^{16} + \frac{22}{197}\sqrt{47}e^{25} + \frac{11}{197}\sqrt{5}e^{37}$	$(-\frac{33}{197}, \frac{55}{197}, \frac{11}{197}, \frac{99}{197}, -\frac{66}{197}, \frac{22}{197}, -\frac{22}{197}, \frac{66}{197}, -\frac{11}{197})$ $+ \frac{11}{197}\sqrt{357}e^2 \otimes e_5$	{358, 457}
941:272	$0, 0, 0, 0, 0, \frac{16}{915}\sqrt{177}e^{12}, \frac{32}{915}\sqrt{159}e^{13}, \frac{16}{915}\sqrt{282}e^{23},$ $\frac{16}{915}\sqrt{789}e^{17} + \frac{16}{915}\sqrt{330}e^{26} + \frac{16}{915}\sqrt{129}e^{38}$	$(\frac{8}{305}, \frac{8}{305}, \frac{8}{305}, \frac{152}{305}, -\frac{24}{61}, \frac{16}{305}, \frac{16}{305}, \frac{16}{305}, \frac{24}{305})$ $+ \frac{16}{305}\sqrt{119}e^4 \otimes e_9 + \frac{48}{305}\sqrt{17}e^1 \otimes e_5$	{12389, 458}
941:272	$0, 0, 0, 0, 0, \frac{2}{249}\sqrt{129}e^{12}, \frac{2}{249}\sqrt{129}e^{13}, \frac{2}{249}\sqrt{129}e^{23},$ $\frac{10}{249}\sqrt{258}e^{17} + \frac{10}{249}\sqrt{258}e^{26} + \frac{10}{249}\sqrt{258}e^{38}$	$(-\frac{1}{83}, -\frac{1}{83}, -\frac{1}{83}, 1, \frac{15}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731}e^4 \otimes e_9$	{12345678, 1234678, 56789, 6789}
941:272	$0, 0, 0, 0, 0, \frac{14}{687}\sqrt{573}e^{12}, \frac{14}{687}\sqrt{267}e^{13}, \frac{14}{687}\sqrt{39}e^{23},$ $\frac{14}{687}\sqrt{114}e^{17} + \frac{28}{687}\sqrt{105}e^{26} + \frac{14}{687}\sqrt{3}e^{38}$	$(\frac{21}{229}, \frac{21}{229}, \frac{21}{229}, -\frac{77}{229}, -\frac{77}{229}, \frac{42}{229}, \frac{42}{229}, \frac{42}{229}, \frac{63}{229})$ $+ \frac{14}{229}\sqrt{102}e^1 \otimes e_4 + \frac{14}{229}\sqrt{102}e^2 \otimes e_5$	{12389, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:272	$0, 0, 0, 0, 0, \frac{2}{723}\sqrt{27645}e^{12}, \frac{2}{723}\sqrt{87009}e^{13}, \frac{2}{723}\sqrt{31719}e^{23},$ $\frac{4}{723}\sqrt{18042}e^{17} + \frac{4}{723}\sqrt{3201}e^{26} + \frac{8}{723}\sqrt{2910}e^{38}$	$(\frac{27}{241}, \frac{27}{241}, \frac{27}{241}, -\frac{167}{241}, \frac{37}{241}, \frac{54}{241}, \frac{54}{241}, \frac{54}{241}, \frac{81}{241})$ $+ \frac{4}{241}\sqrt{4947}e^1 \otimes e_4$	{123589, 12389, 458, 48}
941:272	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{6}e^{12}, \frac{2}{15}\sqrt{6}e^{13}, \frac{2}{15}\sqrt{6}e^{23},$ $\frac{2}{15}\sqrt{6}e^{17} + \frac{2}{15}\sqrt{6}e^{26} + \frac{2}{15}\sqrt{6}e^{38}$	$(\frac{1}{10}, \frac{1}{10}, \frac{1}{10}, 1, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{3}{10})$ $+ \frac{8}{5}e^4 \otimes e_5$	{12349, 12359, 4, 5}
941:274	$0, 0, 0, 0, 0, \frac{5}{47}\sqrt{10}e^{12}, \frac{5}{47}\sqrt{10}e^{13}, \frac{5}{47}\sqrt{10}e^{23},$ $\frac{5}{47}\sqrt{7}e^{17} + \frac{5}{47}\sqrt{7}e^{26} + \frac{5}{47}\sqrt{7}e^{38} + \frac{10}{47}\sqrt{3}e^{45}$	$(\frac{5}{47}, \frac{5}{47}, \frac{5}{47}, \frac{45}{47}, -\frac{30}{47}, \frac{10}{47}, \frac{10}{47}, \frac{10}{47}, \frac{15}{47})$ $+ \frac{75}{47}e^4 \otimes e_5$	{12349, 12359}
941:276	$0, 0, 0, 0, 0, \frac{4}{209}\sqrt{339}e^{12}, \frac{4}{209}\sqrt{339}e^{34}, \frac{2}{209}\sqrt{7797}e^{13},$ $\frac{2}{209}\sqrt{6441}e^{16} + \frac{2}{209}\sqrt{3503}e^{37}$	$(\frac{5}{11}, -\frac{131}{209}, \frac{7}{209}, \frac{45}{209}, \frac{3}{19}, -\frac{36}{209}, \frac{52}{209}, \frac{102}{209}, \frac{59}{209})$ $+ \frac{8}{209}\sqrt{1243}e^1 \otimes e_2$	{134579, 13479, 14589, 1489, 2358, 238, 257, 27}
941:276	$0, 0, 0, 0, 0, \frac{3}{376}\sqrt{3498}e^{12}, \frac{3}{752}\sqrt{3074}e^{34}, \frac{9}{752}\sqrt{106}e^{13},$ $\frac{3}{752}\sqrt{11501}e^{16} + \frac{3}{752}\sqrt{11501}e^{37}$	$(-\frac{307}{1504}, \frac{273}{752}, -\frac{101}{1504}, \frac{67}{752}, \frac{443}{752}, \frac{239}{1504}, \frac{33}{1504}, -\frac{51}{188}, -\frac{17}{376})$ $+ \frac{3}{752}\sqrt{32754}e^2 \otimes e_8 + \frac{3}{752}\sqrt{36782}e^5 \otimes e_9$	{12349, 1568, 24679, 3578}
941:276	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{1066}e^{12}, \frac{4}{67}\sqrt{82}e^{34}, \frac{2}{67}\sqrt{451}e^{13},$ $\frac{2}{67}\sqrt{246}e^{16} + \frac{2}{67}\sqrt{246}e^{37}$	$(-\frac{8}{67}, \frac{41}{67}, \frac{10}{67}, \frac{5}{67}, -\frac{41}{67}, \frac{33}{67}, \frac{15}{67}, \frac{2}{67}, \frac{25}{67})$ $+ \frac{6}{67}\sqrt{246}e^2 \otimes e_5$	{123489, 12479, 135678, 156, 23469, 246789, 357, 58}
941:276	$0, 0, 0, 0, 0, \frac{2}{1913}\sqrt{75358}e^{12}, \frac{1}{1913}\sqrt{218722}e^{34}, \frac{2}{1913}\sqrt{303270}e^{13},$ $\frac{1}{1913}\sqrt{391494}e^{16} + \frac{1}{1913}\sqrt{431930}e^{37}$	$(\frac{355}{1913}, -\frac{564}{1913}, -\frac{376}{1913}, \frac{898}{1913}, \frac{168}{1913}, -\frac{209}{1913}, \frac{522}{1913}, -\frac{21}{1913}, \frac{146}{1913})$ $+ \frac{16}{1913}\sqrt{6433}e^1 \otimes e_2 + \frac{1}{1913}\sqrt{1560462}e^4 \otimes e_8$	{1589, 189, 2457, 247}
941:276	$0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}e^{34}, \frac{3}{4}\sqrt{2}e^{13}, \frac{1}{4}\sqrt{3}e^{16} + \frac{1}{4}\sqrt{3}e^{37}$	$(-\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, 1, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4}, 0)$ $+ \frac{1}{4}\sqrt{34}e^5 \otimes e_8$	{12345679, 124689, 135, 178, 2459, 567}
941:276	$0, 0, 0, 0, 0, \frac{1}{323}\sqrt{56210}e^{12}, \frac{2}{323}\sqrt{2190}e^{34}, \frac{2}{323}\sqrt{16790}e^{13},$ $\frac{3}{323}\sqrt{730}e^{16} + \frac{3}{323}\sqrt{730}e^{37}$	$(-\frac{104}{323}, \frac{246}{323}, -\frac{15}{323}, \frac{4}{323}, \frac{56}{323}, \frac{142}{323}, \frac{53}{323}, -\frac{7}{19}, \frac{2}{17})$ $+ \frac{1}{323}\sqrt{194910}e^2 \otimes e_8$	{123, 1235, 145689, 14689, 2567, 267, 345789, 34789}
941:276	$0, 0, 0, 0, 0, \frac{2}{2143}\sqrt{190190}e^{12}, \frac{39}{2143}\sqrt{110}e^{34}, \frac{1}{2143}\sqrt{782210}e^{13},$ $\frac{1}{2143}\sqrt{12155}e^{16} + \frac{1}{2143}\sqrt{313170}e^{37}$	$(-\frac{139}{2143}, \frac{561}{2143}, -\frac{15}{2143}, \frac{313}{2143}, -\frac{854}{2143}, \frac{422}{2143}, \frac{298}{2143}, -\frac{154}{2143}, \frac{283}{2143})$ $+ \frac{10}{2143}\sqrt{15015}e^1 \otimes e_5 + \frac{13}{2143}\sqrt{7590}e^2 \otimes e_8$	{123479, 1678, 24569, 358}
941:276	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{21}e^{34}, \frac{1}{28}\sqrt{210}e^{13},$ $\frac{1}{28}\sqrt{42}e^{16} + \frac{1}{28}\sqrt{70}e^{37}$	$(\frac{1}{4}, -\frac{1}{4}, \frac{1}{8}, 0, -\frac{3}{8}, 0, \frac{1}{8}, \frac{3}{8}, \frac{1}{4})$ $+ \frac{1}{28}\sqrt{322}e^1 \otimes e_2 + \frac{3}{28}\sqrt{42}e^3 \otimes e_5$	{1349, 145789, 2378, 25}
941:276	$0, 0, 0, 0, 0, \frac{8}{113}\sqrt{57}e^{12}, \frac{8}{113}\sqrt{57}e^{34}, \frac{18}{113}\sqrt{19}e^{13},$ $\frac{2}{113}\sqrt{1995}e^{16} + \frac{2}{113}\sqrt{1995}e^{37}$	$(-\frac{3}{113}, \frac{5}{113}, -\frac{3}{113}, \frac{5}{113}, 1, \frac{2}{113}, \frac{2}{113}, -\frac{6}{113}, -\frac{1}{113})$ $+ \frac{4}{113}\sqrt{1311}e^5 \otimes e_9$	{123489, 12479, 135678, 156, 246789, 58}
941:276	$0, 0, 0, 0, 0, \frac{1}{852}\sqrt{148866}e^{12}, \frac{1}{852}\sqrt{165022}e^{34}, \frac{1}{426}\sqrt{20195}e^{13},$ $\frac{1}{852}\sqrt{9809}e^{16} + \frac{1}{852}\sqrt{9809}e^{37}$	$(-\frac{69}{568}, \frac{82}{213}, -\frac{235}{1704}, \frac{89}{213}, -\frac{83}{284}, \frac{449}{1704}, \frac{159}{568}, -\frac{221}{852}, \frac{121}{852})$ $+ \frac{1}{852}\sqrt{407362}e^2 \otimes e_5 + \frac{1}{852}\sqrt{455830}e^4 \otimes e_8$	{12349, 1568, 24679, 3578}
941:276	$0, 0, 0, 0, 0, \frac{12}{385}\sqrt{97}e^{12}, \frac{12}{385}\sqrt{97}e^{34}, \frac{2}{385}\sqrt{13677}e^{13},$ $\frac{2}{385}\sqrt{1649}e^{16} + \frac{2}{385}\sqrt{1649}e^{37}$	$(\frac{87}{385}, -\frac{107}{385}, \frac{87}{385}, -\frac{107}{385}, \frac{35}{385}, -\frac{4}{77}, -\frac{4}{77}, \frac{174}{385}, \frac{67}{385})$ $+ \frac{8}{385}\sqrt{1067}e^1 \otimes e_2 + \frac{8}{385}\sqrt{1067}e^3 \otimes e_4$	{1359, 139, 24, 245}
941:276	$0, 0, 0, 0, 0, \frac{49}{6749}\sqrt{406}e^{12}, \frac{98}{6749}\sqrt{235}e^{34}, \frac{49}{6749}\sqrt{2334}e^{13},$ $\frac{294}{6749}\sqrt{66}e^{16} + \frac{49}{6749}\sqrt{2}e^{37}$	$(\frac{784}{6749}, -\frac{1617}{6749}, -\frac{1078}{6749}, \frac{2107}{6749}, \frac{2352}{6749}, -\frac{49}{397}, \frac{1029}{6749}, -\frac{294}{6749}, -\frac{49}{6749})$ $+ \frac{49}{6749}\sqrt{4038}e^4 \otimes e_8 + \frac{98}{6749}\sqrt{1189}e^1 \otimes e_2 + \frac{98}{6749}\sqrt{897}e^5 \otimes e_9$	{189, 2457}
941:276	$0, 0, 0, 0, 0, \frac{2}{3193}\sqrt{2138}e^{12}, \frac{2}{3193}\sqrt{459670}e^{34}, \frac{22}{3193}\sqrt{3207}e^{13},$ $\frac{2}{3193}\sqrt{618951}e^{16} + \frac{2}{3193}\sqrt{204179}e^{37}$	$(\frac{965}{3193}, -\frac{1173}{3193}, -\frac{233}{3193}, \frac{1223}{3193}, -\frac{915}{3193}, -\frac{208}{3193}, \frac{990}{3193}, \frac{732}{3193}, \frac{757}{3193})$ $+ \frac{4}{3193}\sqrt{343149}e^4 \otimes e_5 + \frac{4}{3193}\sqrt{411565}e^1 \otimes e_2$	{1346, 14678, 2356789, 2569}
941:276	$0, 0, 0, 0, 0, \frac{4}{1115}\sqrt{1794}e^{12}, \frac{4}{1115}\sqrt{1794}e^{34}, \frac{2}{1115}\sqrt{15249}e^{13},$ $\frac{2}{1115}\sqrt{97773}e^{16} + \frac{2}{1115}\sqrt{24817}e^{37}$	$(\frac{209}{1115}, -\frac{389}{1115}, -\frac{7}{223}, \frac{99}{1115}, \frac{627}{1115}, -\frac{36}{223}, \frac{64}{1115}, \frac{174}{1115}, \frac{29}{1115})$ $+ \frac{12}{1115}\sqrt{4186}e^5 \otimes e_9 + \frac{4}{1115}\sqrt{36478}e^1 \otimes e_2$	{13567, 1568, 234689, 24679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:276	$0, 0, 0, 0, 0, \frac{9}{205}\sqrt{30}e^{12}, \frac{9}{205}\sqrt{30}e^{34}, \frac{3}{205}\sqrt{890}e^{13},$ $\frac{6}{205}\sqrt{10}e^{16} + \frac{6}{205}\sqrt{10}e^{37}$	$(\frac{3}{41}, -\frac{6}{41}, \frac{3}{41}, -\frac{6}{41}, \frac{15}{41}, -\frac{3}{41}, -\frac{3}{41}, \frac{6}{41}, 0)$ $+ \frac{3}{205}\sqrt{670}e^5 \otimes e_8 + \frac{3}{41}\sqrt{26}e^1 \otimes e_2 + \frac{3}{41}\sqrt{26}e^3 \otimes e_4$	{135, 2459}
941:276	$0, 0, 0, 0, 0, \frac{8}{97}\sqrt{3}e^{12}, \frac{8}{97}\sqrt{3}e^{34}, \frac{4}{97}\sqrt{66}e^{13},$ $\frac{20}{97}\sqrt{2}e^{16} + \frac{20}{97}\sqrt{2}e^{37}$	$(\frac{12}{97}, -\frac{20}{97}, \frac{12}{97}, -\frac{20}{97}, \frac{36}{97}, -\frac{8}{97}, -\frac{8}{97}, \frac{24}{97}, \frac{4}{97})$ $+ \frac{4}{97}\sqrt{114}e^5 \otimes e_9 + \frac{4}{97}\sqrt{122}e^1 \otimes e_2 + \frac{4}{97}\sqrt{122}e^3 \otimes e_4$	{139, 245}
941:276	$0, 0, 0, 0, 0, \frac{12}{265}\sqrt{55}e^{12}, \frac{12}{265}\sqrt{55}e^{34}, \frac{8}{265}\sqrt{435}e^{13},$ $\frac{24}{265}\sqrt{10}e^{16} + \frac{4}{265}\sqrt{615}e^{37}$	$(\frac{8}{53}, -\frac{16}{53}, -\frac{5}{53}, \frac{10}{53}, \frac{27}{53}, -\frac{8}{53}, \frac{5}{53}, \frac{3}{53}, 0)$ $+ \frac{4}{265}\sqrt{1770}e^5 \otimes e_8 + \frac{4}{53}\sqrt{78}e^1 \otimes e_2$	{134579, 1489, 238, 257}
941:276	$0, 0, 0, 0, 0, \frac{4}{1777}\sqrt{21606}e^{12}, \frac{1}{1777}\sqrt{257610}e^{34}, \frac{4}{1777}\sqrt{45705}e^{13},$ $\frac{1}{1777}\sqrt{440430}e^{16} + \frac{3}{1777}\sqrt{31578}e^{37}$	$(\frac{151}{1777}, -\frac{16}{1777}, -\frac{232}{1777}, \frac{750}{1777}, -\frac{680}{1777}, \frac{135}{1777}, \frac{518}{1777}, -\frac{81}{1777}, \frac{286}{1777})$ $+ \frac{1}{1777}\sqrt{1185006}e^4 \otimes e_8 + \frac{4}{1777}\sqrt{90579}e^1 \otimes e_5$	{1289, 1346, 2356789, 457}
941:277	$0, 0, 0, 0, 0, \frac{10}{1409}\sqrt{1571}e^{12}, \frac{1}{1409}\sqrt{1052570}e^{34}, \frac{2}{1409}\sqrt{317342}e^{13},$ $\frac{2}{1409}\sqrt{89547}e^{26} + \frac{4}{1409}\sqrt{17281}e^{37}$	$(-\frac{100}{1409}, \frac{190}{1409}, -\frac{397}{1409}, \frac{1074}{1409}, \frac{254}{1409}, \frac{90}{1409}, \frac{677}{1409}, -\frac{497}{1409}, \frac{280}{1409})$ $+ \frac{1}{1409}\sqrt{3629010}e^4 \otimes e_8$	{123456, 12346, 134, 1345, 235789, 23789, 356789, 36789}
941:277	$0, 0, 0, 0, 0, \frac{4}{515}\sqrt{2959}e^{12}, \frac{1}{515}\sqrt{22058}e^{34}, \frac{8}{515}\sqrt{807}e^{13},$ $\frac{4}{515}\sqrt{74782}e^{26} + \frac{1}{515}\sqrt{30666}e^{37}$	$(-\frac{24}{103}, \frac{133}{515}, -\frac{16}{515}, \frac{178}{515}, -\frac{91}{515}, \frac{13}{515}, \frac{162}{515}, -\frac{136}{515}, \frac{146}{515})$ $+ \frac{1}{515}\sqrt{83390}e^4 \otimes e_5 + \frac{1}{515}\sqrt{9953}e^2 \otimes e_8$	{123579, 15689, 2467, 348}
941:277	$0, 0, 0, 0, 0, \frac{4}{3461}\sqrt{63101}e^{12}, \frac{2}{3461}\sqrt{186467}e^{34}, \frac{4}{3461}\sqrt{205610}e^{13},$ $\frac{4}{3461}\sqrt{138255}e^{26} + \frac{8}{3461}\sqrt{4963}e^{37}$	$(-\frac{1145}{3461}, \frac{1092}{3461}, \frac{819}{3461}, -\frac{599}{3461}, \frac{371}{3461}, -\frac{53}{3461}, \frac{220}{3461}, -\frac{326}{3461}, \frac{1039}{3461})$ $+ \frac{2}{3461}\sqrt{1316613}e^2 \otimes e_8 + \frac{6}{3461}\sqrt{97133}e^3 \otimes e_4$	{145689, 14689, 358, 38}
941:277	$0, 0, 0, 0, 0, \frac{4}{221}\sqrt{685}e^{12}, \frac{4}{221}\sqrt{685}e^{34}, \frac{8}{221}\sqrt{822}e^{13},$ $\frac{2}{221}\sqrt{2877}e^{26} + \frac{6}{221}\sqrt{411}e^{37}$	$(-\frac{40}{221}, \frac{35}{221}, -\frac{1}{221}, \frac{56}{221}, 1, -\frac{5}{221}, \frac{43}{221}, -\frac{53}{221}, \frac{30}{221})$ $+ \frac{2}{221}\sqrt{25345}e^5 \otimes e_8$	{12356, 12678, 135, 178, 234789, 2459, 346789, 4569}
941:277	$0, 0, 0, 0, 0, \frac{4}{1421}\sqrt{33497}e^{12}, \frac{1}{1421}\sqrt{1886410}e^{34}, \frac{4}{1421}\sqrt{40549}e^{13},$ $\frac{3}{1421}\sqrt{17630}e^{26} + \frac{1}{1421}\sqrt{483062}e^{37}$	$(\frac{304}{1421}, \frac{75}{1421}, -\frac{216}{1421}, \frac{886}{1421}, \frac{877}{1421}, \frac{379}{1421}, \frac{670}{1421}, \frac{88}{1421}, \frac{454}{1421})$ $+ \frac{1}{1421}\sqrt{4051374}e^4 \otimes e_5$	{123489, 12479, 134689, 14679, 23567, 2568, 357, 58}
941:277	$0, 0, 0, 0, 0, \frac{44}{3897}\sqrt{346}e^{12}, \frac{88}{3897}\sqrt{39}e^{34}, \frac{44}{3897}\sqrt{811}e^{13},$ $\frac{44}{3897}\sqrt{887}e^{26} + \frac{44}{3897}\sqrt{231}e^{37}$	$(-\frac{814}{3897}, \frac{616}{3897}, \frac{154}{1299}, -\frac{506}{3897}, \frac{154}{433}, -\frac{22}{433}, -\frac{44}{3897}, -\frac{352}{3897}, \frac{418}{3897})$ $+ \frac{44}{3897}\sqrt{1005}e^3 \otimes e_4 + \frac{44}{3897}\sqrt{1043}e^5 \otimes e_9 + \frac{44}{3897}\sqrt{1506}e^2 \otimes e_8$	{1239, 2456}
941:277	$0, 0, 0, 0, 0, \frac{36}{727}\sqrt{41}e^{12}, \frac{36}{727}\sqrt{41}e^{34}, \frac{3}{727}\sqrt{22714}e^{13},$ $\frac{3}{727}\sqrt{574}e^{26} + \frac{12}{727}\sqrt{205}e^{37}$	$(-\frac{144}{727}, \frac{126}{727}, \frac{159}{727}, -\frac{210}{727}, \frac{384}{727}, -\frac{18}{727}, -\frac{51}{727}, \frac{15}{727}, \frac{108}{727})$ $+ \frac{21}{727}\sqrt{574}e^3 \otimes e_4 + \frac{3}{727}\sqrt{26486}e^5 \otimes e_8$	{12468, 148, 2389, 3689}
941:277	$0, 0, 0, 0, 0, \frac{1}{1409}\sqrt{1052570}e^{12}, \frac{10}{1409}\sqrt{1571}e^{34}, \frac{2}{1409}\sqrt{317342}e^{13},$ $\frac{2}{1409}\sqrt{89547}e^{26} + \frac{4}{1409}\sqrt{17281}e^{37}$	$(\frac{670}{1409}, -\frac{195}{1409}, -\frac{12}{1409}, \frac{304}{1409}, -\frac{901}{1409}, \frac{475}{1409}, \frac{292}{1409}, \frac{658}{1409}, \frac{280}{1409})$ $+ \frac{1}{1409}\sqrt{3629010}e^1 \otimes e_5$	{123479, 12489, 134679, 14689, 23568, 2567, 358, 57}
941:277	$0, 0, 0, 0, 0, \frac{8}{1401}\sqrt{230}e^{12}, \frac{8}{1401}\sqrt{230}e^{34}, \frac{40}{1401}\sqrt{115}e^{13},$ $\frac{8}{1401}\sqrt{3059}e^{26} + \frac{8}{1401}\sqrt{8763}e^{37}$	$(\frac{20}{1401}, \frac{4}{467}, \frac{260}{1401}, -\frac{476}{1401}, \frac{260}{467}, \frac{32}{1401}, -\frac{72}{467}, \frac{280}{1401}, \frac{44}{1401})$ $+ \frac{184}{467}\sqrt{3}e^3 \otimes e_4 + \frac{200}{1401}\sqrt{23}e^5 \otimes e_9$	{124789, 146789, 235678, 3578}
941:277	$0, 0, 0, 0, 0, \frac{4}{4211}\sqrt{95663}e^{12}, \frac{4}{4211}\sqrt{75338}e^{34}, \frac{4}{4211}\sqrt{342815}e^{13},$ $\frac{4}{4211}\sqrt{8130}e^{26} + \frac{4}{4211}\sqrt{92411}e^{37}$	$(\frac{706}{4211}, \frac{48}{4211}, \frac{990}{4211}, -\frac{1178}{4211}, -\frac{1462}{4211}, \frac{754}{4211}, -\frac{188}{4211}, \frac{1696}{4211}, \frac{802}{4211})$ $+ \frac{4}{4211}\sqrt{511377}e^3 \otimes e_4 + \frac{4}{4211}\sqrt{513003}e^1 \otimes e_5$	{1239, 1369, 2456, 45}
941:277	$0, 0, 0, 0, 0, \frac{14}{3645}\sqrt{805}e^{12}, \frac{28}{3645}\sqrt{3243}e^{34}, \frac{28}{3645}\sqrt{2047}e^{13},$ $\frac{14}{3645}\sqrt{12857}e^{26} + \frac{14}{3645}\sqrt{8763}e^{37}$	$(\frac{14}{729}, -\frac{133}{3645}, -\frac{56}{243}, \frac{1484}{3645}, \frac{686}{1215}, -\frac{7}{405}, \frac{644}{3645}, -\frac{154}{729}, -\frac{196}{3645})$ $+ \frac{14}{3645}\sqrt{36731}e^5 \otimes e_9 + \frac{322}{3645}\sqrt{69}e^4 \otimes e_8$	{12349, 13469, 235678, 3578}
941:277	$0, 0, 0, 0, 0, \frac{4}{1537}\sqrt{32062}e^{12}, \frac{5}{1537}\sqrt{1886}e^{34}, \frac{11}{1537}\sqrt{1886}e^{13},$ $\frac{1}{1537}\sqrt{503562}e^{26} + \frac{4}{1537}\sqrt{16031}e^{37}$	$(-\frac{197}{1537}, \frac{398}{1537}, \frac{514}{1537}, -\frac{429}{1537}, -\frac{545}{1537}, \frac{201}{1537}, \frac{85}{1537}, \frac{317}{1537}, \frac{599}{1537})$ $+ \frac{1}{1537}\sqrt{1397526}e^2 \otimes e_5 + \frac{20}{1537}\sqrt{2829}e^3 \otimes e_4$	{124789, 1456789, 23678, 3578}
941:277	$0, 0, 0, 0, 0, \frac{6}{373}\sqrt{374}e^{12}, \frac{6}{373}\sqrt{255}e^{34}, \frac{42}{373}\sqrt{17}e^{13},$ $\frac{15}{373}\sqrt{102}e^{26} + \frac{3}{373}\sqrt{170}e^{37}$	$(-\frac{97}{373}, \frac{111}{373}, \frac{55}{373}, \frac{15}{373}, -\frac{98}{405}, \frac{14}{373}, \frac{70}{373}, -\frac{42}{373}, \frac{125}{373})$ $+ \frac{3}{373}\sqrt{4862}e^3 \otimes e_5 + \frac{3}{373}\sqrt{6290}e^2 \otimes e_8$	{12349, 1456789, 256, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:277	$0, 0, 0, 0, 0, \frac{1}{461}\sqrt{15630}e^{12}, \frac{1}{461}\sqrt{15630}e^{34}, \frac{5}{461}\sqrt{5210}e^{13},$ $\frac{2}{461}\sqrt{3126}e^{26} + \frac{2}{461}\sqrt{30218}e^{37}$	$(-\frac{30}{461}, \frac{107}{461}, \frac{235}{461}, -\frac{286}{461}, \frac{80}{461}, \frac{77}{461}, -\frac{51}{461}, \frac{205}{461}, \frac{184}{461})$ $+\frac{1}{461}\sqrt{397002}e^3 \otimes e_4$	{123569, 12369, 1359, 139, 24, 245, 456, 46}
941:277	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{249}e^{12}, \frac{1}{181}\sqrt{17430}e^{34}, \frac{1}{181}\sqrt{7802}e^{13},$ $\frac{1}{181}\sqrt{2490}e^{26} + \frac{2}{181}\sqrt{4565}e^{37}$	$(\frac{6}{181}, \frac{37}{181}, \frac{50}{181}, -\frac{20}{181}, -\frac{116}{181}, \frac{43}{181}, \frac{30}{181}, \frac{56}{181}, \frac{80}{181})$ $+\frac{3}{181}\sqrt{5478}e^3 \otimes e_5$	{1237, 1258, 1367, 1568, 234689, 245679, 3489, 4579}
941:277	$0, 0, 0, 0, 0, \frac{18}{1157}\sqrt{115}e^{12}, \frac{9}{1157}\sqrt{3082}e^{34}, \frac{3}{1157}\sqrt{23230}e^{13},$ $\frac{3}{1157}\sqrt{782}e^{26} + \frac{6}{1157}\sqrt{3289}e^{37}$	$(-\frac{90}{1157}, \frac{171}{1157}, -\frac{24}{1157}, \frac{300}{1157}, -\frac{438}{1157}, \frac{81}{1157}, \frac{276}{1157}, -\frac{114}{1157}, \frac{252}{1157})$ $+\frac{132}{1157}\sqrt{23}e^4 \otimes e_8 + \frac{3}{1157}\sqrt{51106}e^3 \otimes e_5$	{123469, 1349, 2378, 3678}
941:277	$0, 0, 0, 0, 0, \frac{2}{381}\sqrt{6955}e^{12}, \frac{2}{381}\sqrt{5885}e^{34}, \frac{2}{1143}\sqrt{33063}e^{13},$ $\frac{2}{1143}\sqrt{81213}e^{26} + \frac{2}{1143}\sqrt{22791}e^{37}$	$(-\frac{155}{1143}, \frac{80}{381}, -\frac{6}{127}, \frac{433}{1143}, -\frac{134}{381}, \frac{85}{1143}, \frac{379}{1143}, -\frac{209}{1143}, \frac{325}{1143})$ $+\frac{2}{1143}\sqrt{146055}e^4 \otimes e_8 + \frac{2}{1143}\sqrt{174945}e^2 \otimes e_5$	{1289, 15689, 2467, 457}
941:277	$0, 0, 0, 0, 0, \frac{2}{1415}\sqrt{156926}e^{12}, \frac{1}{1415}\sqrt{181382}e^{34}, \frac{1}{1415}\sqrt{1000658}e^{13},$ $\frac{2}{1415}\sqrt{287358}e^{26} + \frac{1}{1415}\sqrt{564526}e^{37}$	$(-\frac{115}{283}, \frac{543}{1415}, \frac{99}{1415}, \frac{313}{1415}, \frac{224}{1415}, -\frac{32}{1415}, \frac{412}{1415}, -\frac{476}{1415}, \frac{511}{1415})$ $+\frac{1}{1415}\sqrt{2427258}e^2 \otimes e_8$	{1234579, 123479, 145689, 14689, 2567, 267, 358, 38}
941:277	$0, 0, 0, 0, 0, \frac{4}{289}\sqrt{3523}e^{12}, \frac{5}{289}\sqrt{542}e^{34}, \frac{1}{289}\sqrt{12466}e^{13},$ $\frac{3}{289}\sqrt{5962}e^{26} + \frac{4}{289}\sqrt{271}e^{37}$	$(-\frac{29}{289}, \frac{86}{289}, \frac{58}{289}, \frac{27}{289}, -\frac{185}{289}, \frac{57}{289}, \frac{5}{17}, \frac{29}{289}, \frac{143}{289})$ $+\frac{1}{289}\sqrt{128454}e^2 \otimes e_5$	{123789, 129, 1356789, 1569, 2346, 24678, 345, 4578}
941:277	$0, 0, 0, 0, 0, \frac{2}{21}\sqrt{23}e^{12}, \frac{2}{21}\sqrt{23}e^{34}, \frac{2}{21}\sqrt{23}e^{13},$ $\frac{1}{21}\sqrt{230}e^{26} + \frac{2}{21}\sqrt{69}e^{37}$	$(\frac{4}{21}, -\frac{1}{7}, -\frac{2}{21}, \frac{2}{21}, 1, \frac{1}{21}, 0, \frac{2}{21}, -\frac{2}{21})$ $+\frac{1}{21}\sqrt{782}e^5 \otimes e_9$	{123489, 12479, 134689, 14679, 23567, 2568, 357, 58}
941:277	$0, 0, 0, 0, 0, \frac{5}{23}\sqrt{2}e^{12}, \frac{2}{23}\sqrt{5}e^{34}, \frac{4}{23}\sqrt{5}e^{13},$ $\frac{2}{23}\sqrt{15}e^{26} + \frac{2}{23}\sqrt{10}e^{37}$	$(-\frac{2}{23}, \frac{3}{23}, 0, \frac{4}{23}, -\frac{7}{23}, \frac{1}{23}, \frac{4}{23}, -\frac{2}{23}, \frac{4}{23})$ $+\frac{2}{23}\sqrt{30}e^2 \otimes e_8 + \frac{3}{23}\sqrt{10}e^1 \otimes e_5$	{123479, 14689, 2567, 358}
941:277	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{310}e^{12}, \frac{2}{123}\sqrt{310}e^{34}, \frac{2}{123}\sqrt{1178}e^{13},$ $\frac{4}{123}\sqrt{62}e^{26} + \frac{2}{123}\sqrt{341}e^{37}$	$(\frac{20}{123}, -\frac{5}{123}, -\frac{8}{41}, \frac{58}{123}, -\frac{14}{41}, \frac{5}{41}, \frac{34}{123}, -\frac{12}{123}, \frac{10}{123})$ $+\frac{2}{123}\sqrt{1705}e^1 \otimes e_5 + \frac{2}{123}\sqrt{1705}e^4 \otimes e_8$	{1289, 1689, 24567, 457}
941:277	$0, 0, 0, 0, 0, \frac{2}{1827}\sqrt{101959}e^{12}, \frac{2}{609}\sqrt{1426}e^{34}, \frac{2}{1827}\sqrt{112654}e^{13},$ $\frac{1}{1827}\sqrt{879842}e^{26} + \frac{2}{1827}\sqrt{2139}e^{37}$	$(-\frac{394}{1827}, \frac{271}{1827}, -\frac{16}{609}, \frac{244}{1827}, \frac{41}{87}, -\frac{41}{609}, \frac{28}{261}, -\frac{442}{1827}, \frac{148}{1827})$ $+\frac{1}{1827}\sqrt{931178}e^5 \otimes e_9 + \frac{4}{1827}\sqrt{651}e^2 \otimes e_8$	{123479, 14689, 2567, 358}
941:278	$0, 0, 0, 0, 0, \frac{49}{353}\sqrt{7}e^{12}, \frac{28}{353}\sqrt{5}e^{34}, \frac{7}{353}\sqrt{383}e^{13},$ $\frac{7}{353}\sqrt{302}e^{26} + \frac{7}{353}\sqrt{53}e^{47}$	$(-\frac{6}{353}, \frac{52}{353}, -\frac{40}{353}, \frac{69}{353}, -\frac{104}{353}, \frac{46}{353}, \frac{29}{353}, -\frac{46}{353}, \frac{98}{353})$ $+\frac{7}{353}\sqrt{559}e^1 \otimes e_5 + \frac{7}{353}\sqrt{710}e^2 \otimes e_8$	{123479, 1239, 2456, 2567}
941:278	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{3990}e^{12}, \frac{2}{85}\sqrt{95}e^{34}, \frac{2}{85}\sqrt{1045}e^{13},$ $\frac{2}{85}\sqrt{190}e^{26} + \frac{2}{85}\sqrt{190}e^{47}$	$(\frac{42}{85}, -\frac{9}{85}, -\frac{4}{85}, \frac{14}{85}, \frac{53}{85}, \frac{33}{17}, \frac{2}{85}, \frac{38}{85}, \frac{24}{85})$ $+\frac{1}{85}\sqrt{13110}e^1 \otimes e_5$	{12489, 12789, 14689, 16789, 2345678, 23568, 34578, 358}
941:278	$0, 0, 0, 0, 0, \frac{4}{1721}\sqrt{72239}e^{12}, \frac{10}{1721}\sqrt{1363}e^{34}, \frac{1}{1721}\sqrt{1223974}e^{13},$ $\frac{8}{1721}\sqrt{25897}e^{26} + \frac{1}{1721}\sqrt{280778}e^{47}$	$(-\frac{574}{1721}, \frac{689}{1721}, -\frac{100}{1721}, \frac{452}{1721}, \frac{299}{1721}, \frac{115}{1721}, \frac{352}{1721}, -\frac{674}{1721}, \frac{804}{1721})$ $+\frac{6}{1721}\sqrt{107677}e^2 \otimes e_8$	{1234579, 123479, 12359, 1239, 2456, 246, 2567, 267}
941:278	$0, 0, 0, 0, 0, \frac{1}{309}\sqrt{11210}e^{12}, \frac{1}{103}\sqrt{118}e^{34}, \frac{1}{309}\sqrt{11741}e^{13},$ $\frac{1}{103}\sqrt{2537}e^{26} + \frac{5}{309}\sqrt{177}e^{47}$	$(-\frac{61}{309}, \frac{16}{103}, -\frac{3}{103}, \frac{22}{309}, \frac{51}{103}, -\frac{13}{309}, \frac{13}{309}, -\frac{70}{309}, \frac{35}{309})$ $+\frac{1}{309}\sqrt{27553}e^5 \otimes e_9 + \frac{4}{309}\sqrt{2301}e^2 \otimes e_8$	{14689, 16789, 34578, 358}
941:278	$0, 0, 0, 0, 0, \frac{1}{45}\sqrt{38}e^{12}, \frac{1}{15}\sqrt{38}e^{34}, \frac{1}{45}\sqrt{1938}e^{13},$ $\frac{1}{45}\sqrt{57}e^{26} + \frac{1}{45}\sqrt{57}e^{47}$	$(-\frac{2}{15}, \frac{1}{5}, -\frac{2}{15}, \frac{1}{5}, 1, \frac{1}{15}, \frac{1}{15}, -\frac{4}{15}, \frac{4}{15})$ $+\frac{1}{45}\sqrt{4218}e^5 \otimes e_8$	{1234567, 12356, 135, 2459, 2579, 5679}
941:278	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{10}e^{12}, \frac{1}{9}\sqrt{10}e^{34}, \frac{1}{9}\sqrt{5}e^{13},$ $\frac{1}{3}\sqrt{5}e^{26} + \frac{1}{3}\sqrt{5}e^{47}$	$(\frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, 1, 0, 0, \frac{2}{9}, -\frac{1}{9})$ $+\frac{1}{9}\sqrt{145}e^5 \otimes e_9$	{12349, 12379, 13679, 24567, 256, 5}
941:278	$0, 0, 0, 0, 0, \frac{2}{141}\sqrt{730}e^{12}, \frac{4}{141}\sqrt{219}e^{34}, \frac{2}{141}\sqrt{511}e^{13},$ $\frac{1}{141}\sqrt{2482}e^{26} + \frac{1}{141}\sqrt{3358}e^{47}$	$(-\frac{5}{47}, \frac{37}{141}, -\frac{19}{141}, \frac{13}{47}, -\frac{12}{47}, \frac{22}{141}, \frac{20}{141}, -\frac{34}{141}, \frac{59}{141})$ $+\frac{1}{141}\sqrt{8030}e^2 \otimes e_5 + \frac{1}{141}\sqrt{9782}e^4 \otimes e_8$	{12349, 134569, 2467, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:278	$0, 0, 0, 0, 0, \frac{5}{1173}\sqrt{3346e^{12}}, \frac{2}{1173}\sqrt{33221e^{34}}, \frac{1}{1173}\sqrt{301618e^{13}},$ $\frac{4}{1173}\sqrt{2390e^{26}} + \frac{1}{1173}\sqrt{246170e^{47}}$	$(\frac{175}{1173}, \frac{30}{391}, -\frac{317}{1173}, \frac{112}{391}, -\frac{101}{391}, \frac{265}{1173}, \frac{19}{1173}, -\frac{142}{1173}, \frac{355}{1173})$ $+ \frac{1}{1173}\sqrt{421118e^1} \otimes e_5 + \frac{2}{1173}\sqrt{142205e^4} \otimes e_8$	{128, 168, 2356789, 35789}
941:278	$0, 0, 0, 0, 0, \frac{2}{1697}\sqrt{487911e^{12}}, \frac{4}{1697}\sqrt{30001e^{34}}, \frac{1}{1697}\sqrt{495806e^{13}},$ $\frac{1}{1697}\sqrt{1891642e^{26}} + \frac{10}{1697}\sqrt{3158e^{47}}$	$(-\frac{162}{1697}, \frac{480}{1697}, \frac{304}{1697}, \frac{247}{1697}, -\frac{1099}{1697}, \frac{318}{1697}, \frac{551}{1697}, \frac{142}{1697}, \frac{798}{1697})$ $+ \frac{2}{1697}\sqrt{1103721e^2} \otimes e_5$	{12479, 129, 145679, 1569, 2346, 2367, 345, 357}
941:279	$0, 0, 0, 0, 0, \frac{6}{277}\sqrt{211e^{12}}, \frac{2}{831}\sqrt{58447e^{34}}, \frac{2}{277}\sqrt{8651e^{15}},$ $\frac{8}{831}\sqrt{41145e^{16}} + \frac{2}{277}\sqrt{8018e^{37}}$	$(\frac{11}{277}, \frac{69}{277}, \frac{212}{831}, -\frac{151}{831}, -\frac{81}{277}, \frac{80}{277}, \frac{61}{831}, -\frac{70}{277}, \frac{91}{277})$ $+ \frac{2}{831}\sqrt{148755e^3} \otimes e_8$	{1234569, 1246789, 1357, 18, 2349, 245789, 367, 568}
941:279	$0, 0, 0, 0, 0, \frac{20}{5261}\sqrt{1927e^{12}}, \frac{10}{5261}\sqrt{9259e^{34}}, \frac{190}{5261}\sqrt{141e^{15}},$ $\frac{10}{5261}\sqrt{7003e^{16}} + \frac{20}{5261}\sqrt{20022e^{37}}$	$(-\frac{477}{5261}, \frac{755}{5261}, \frac{717}{5261}, -\frac{1633}{5261}, \frac{2151}{5261}, \frac{278}{5261}, -\frac{916}{5261}, \frac{1674}{5261}, -\frac{199}{5261})$ $+ \frac{10}{5261}\sqrt{124221e^5} \otimes e_9 + \frac{10}{5261}\sqrt{95269e^3} \otimes e_4$	{123567, 14789, 23578, 4679}
941:279	$0, 0, 0, 0, 0, \frac{4}{1313}\sqrt{22530e^{12}}, \frac{1}{1313}\sqrt{346962e^{34}}, \frac{2}{1313}\sqrt{25534e^{15}},$ $\frac{1}{1313}\sqrt{373998e^{16}} + \frac{3}{1313}\sqrt{4506e^{37}}$	$(\frac{231}{1313}, -\frac{72}{1313}, -\frac{36}{1313}, \frac{462}{1313}, -\frac{40}{101}, \frac{159}{1313}, \frac{426}{1313}, -\frac{289}{1313}, \frac{30}{101})$ $+ \frac{2}{1313}\sqrt{232810e^1} \otimes e_5 + \frac{5}{1313}\sqrt{31542e^4} \otimes e_8$	{123789, 1289, 2356789, 25689}
941:279	$0, 0, 0, 0, 0, \frac{26}{4993}\sqrt{627e^{12}}, \frac{2}{4993}\sqrt{217151e^{34}}, \frac{2}{4993}\sqrt{417373e^{15}},$ $\frac{3}{4993}\sqrt{102619e^{16}} + \frac{4}{4993}\sqrt{95513e^{37}}$	$(-\frac{523}{4993}, \frac{983}{4993}, \frac{250}{4993}, -\frac{563}{4993}, \frac{355}{4993}, \frac{460}{4993}, -\frac{313}{4993}, -\frac{168}{4993}, -\frac{63}{4993})$ $+ \frac{38}{4993}\sqrt{1529e^3} \otimes e_8 + \frac{4}{4993}\sqrt{98021e^5} \otimes e_9$	{1246789, 1357, 2349, 568}
941:279	$0, 0, 0, 0, 0, \frac{12}{247}\sqrt{23e^{12}}, \frac{6}{247}\sqrt{230e^{34}}, \frac{6}{247}\sqrt{386e^{15}},$ $\frac{6}{247}\sqrt{78e^{16}} + \frac{96}{247}e^{37}$	$(\frac{48}{247}, -\frac{24}{247}, \frac{51}{247}, -\frac{30}{247}, -\frac{69}{247}, \frac{24}{247}, \frac{21}{247}, -\frac{21}{247}, \frac{72}{247})$ $+ \frac{12}{247}\sqrt{145e^3} \otimes e_8 + \frac{6}{247}\sqrt{298e^1} \otimes e_2$	{1357, 18, 2349, 245789}
941:279	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{34e^{12}}, \frac{1}{37}\sqrt{19e^{34}}, \frac{1}{37}\sqrt{159e^{15}},$ $\frac{1}{37}\sqrt{77e^{16}} + \frac{1}{37}\sqrt{130e^{37}}$	$(\frac{3}{37}, -\frac{6}{37}, \frac{3}{37}, -\frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{12}{37}, 0)$ $+ \frac{1}{37}\sqrt{146e^3} \otimes e_4 + \frac{1}{37}\sqrt{199e^1} \otimes e_2 + \frac{3}{37}\sqrt{66e^5} \otimes e_9$	{14789, 23578}
941:279	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{17e^{12}}, \frac{60}{169}e^{34}, \frac{10}{169}\sqrt{31e^{15}},$ $\frac{10}{169}\sqrt{2e^{16}} + \frac{10}{169}\sqrt{57e^{37}}$	$(-\frac{25}{169}, \frac{5}{13}, \frac{15}{169}, -\frac{15}{169}, -\frac{10}{169}, \frac{40}{169}, 0, -\frac{35}{169}, \frac{15}{169})$ $- \frac{10}{169}\sqrt{61e^2} \otimes e_9 + \frac{10}{169}\sqrt{87e^3} \otimes e_8$	{12357, 128, 134569, 146789, 2367, 2568, 349, 45789}
941:279	$0, 0, 0, 0, 0, \frac{10}{169}\sqrt{17e^{12}}, \frac{60}{169}e^{34}, \frac{10}{169}\sqrt{31e^{15}},$ $\frac{10}{169}\sqrt{2e^{16}} + \frac{10}{169}\sqrt{57e^{37}}$	$(-\frac{25}{169}, \frac{5}{13}, \frac{15}{169}, -\frac{15}{169}, -\frac{10}{169}, \frac{40}{169}, 0, -\frac{35}{169}, \frac{15}{169})$ $+ \frac{10}{169}\sqrt{61e^2} \otimes e_9 + \frac{10}{169}\sqrt{87e^3} \otimes e_8$	{12357, 128, 134569, 146789, 2367, 2568, 349, 45789}
941:279	$0, 0, 0, 0, 0, \frac{1}{1673}\sqrt{1506714e^{12}}, \frac{2}{1673}\sqrt{98103e^{34}}, \frac{2}{1673}\sqrt{418326e^{15}},$ $\frac{6}{1673}\sqrt{9255e^{16}} + \frac{4}{1673}\sqrt{31467e^{37}}$	$(-\frac{451}{1673}, \frac{1266}{1673}, \frac{76}{1673}, \frac{212}{1673}, -\frac{134}{1673}, \frac{815}{1673}, \frac{288}{1673}, -\frac{585}{1673}, \frac{52}{239})$ $+ \frac{1}{1673}\sqrt{5016210e^2} \otimes e_8$	{12357, 125, 134689, 146789, 2367, 26, 34589, 45789}
941:279	$0, 0, 0, 0, 0, \frac{42}{3049}\sqrt{129e^{12}}, \frac{21}{3049}\sqrt{777e^{34}}, \frac{21}{3049}\sqrt{2033e^{15}},$ $\frac{21}{3049}\sqrt{515e^{16}} + \frac{21}{3049}\sqrt{674e^{37}}$	$(\frac{84}{3049}, -\frac{357}{3049}, -\frac{483}{3049}, \frac{777}{3049}, \frac{252}{3049}, -\frac{273}{3049}, \frac{294}{3049}, \frac{336}{3049}, -\frac{189}{3049})$ $+ \frac{126}{3049}\sqrt{57e^5} \otimes e_9 + \frac{147}{3049}\sqrt{35e^1} \otimes e_2 + \frac{21}{3049}\sqrt{1846e^4} \otimes e_8$	{23578, 258}
941:279	$0, 0, 0, 0, 0, \frac{4}{1639}\sqrt{11067e^{12}}, \frac{2}{1639}\sqrt{23205e^{34}}, \frac{4}{149}\sqrt{357e^{15}},$ $\frac{42}{1639}\sqrt{51e^{16}} + \frac{2}{1639}\sqrt{108885e^{37}}$	$(-\frac{476}{1639}, \frac{732}{1639}, -\frac{175}{1639}, \frac{130}{1639}, \frac{494}{1639}, \frac{256}{1639}, -\frac{45}{1639}, \frac{18}{1639}, -\frac{20}{149})$ $+ \frac{18}{1639}\sqrt{3451e^5} \otimes e_9 + \frac{2}{1639}\sqrt{235977e^2} \otimes e_8$	{23469, 24679, 3578, 58}
941:279	$0, 0, 0, 0, 0, \frac{3}{661}\sqrt{130e^{12}}, \frac{3}{1322}\sqrt{874e^{34}}, \frac{3}{1322}\sqrt{1978e^{15}},$ $\frac{9}{1322}\sqrt{14e^{16}} + \frac{3}{661}\sqrt{371e^{37}}$	$(\frac{6}{661}, -\frac{3}{661}, \frac{33}{661}, -\frac{57}{661}, \frac{18}{661}, \frac{3}{661}, -\frac{24}{661}, \frac{24}{661}, \frac{9}{661})$ $+ \frac{3}{1322}\sqrt{962e^1} \otimes e_2 + \frac{3}{661}\sqrt{426e^5} \otimes e_9 + \frac{3}{661}\sqrt{551e^3} \otimes e_8$	{1357, 2349}
941:279	$0, 0, 0, 0, 0, \frac{27}{2131}\sqrt{1906e^{12}}, \frac{2}{2131}\sqrt{37167e^{34}}, \frac{4}{2131}\sqrt{6671e^{15}},$ $\frac{18}{2131}\sqrt{2859e^{16}} + \frac{2}{2131}\sqrt{40026e^{37}}$	$(\frac{159}{2131}, \frac{318}{2131}, \frac{240}{2131}, \frac{156}{2131}, -\frac{794}{2131}, \frac{477}{2131}, \frac{396}{2131}, -\frac{635}{2131}, \frac{636}{2131})$ $+ \frac{1}{2131}\sqrt{1549578e^2} \otimes e_8 + \frac{2}{2131}\sqrt{516526e^1} \otimes e_5$	{12379, 129, 235679, 2569}
941:279	$0, 0, 0, 0, 0, \frac{1}{61}\sqrt{82e^{12}}, \frac{1}{61}\sqrt{205e^{34}}, \frac{1}{61}\sqrt{861e^{15}},$ $\frac{1}{61}\sqrt{451e^{16}} + \frac{3}{61}\sqrt{82e^{37}}$	$(\frac{21}{61}, -\frac{20}{61}, \frac{21}{61}, -\frac{20}{61}, -\frac{3}{61}, \frac{1}{61}, \frac{1}{61}, \frac{18}{61}, \frac{22}{61})$ $+ \frac{1}{61}\sqrt{2337e^1} \otimes e_2 + \frac{5}{61}\sqrt{82e^3} \otimes e_4$	{14579, 14789, 23578, 237}
941:279	$0, 0, 0, 0, 0, \frac{18}{1697}\sqrt{627e^{12}}, \frac{36}{1697}\sqrt{247e^{34}}, \frac{18}{1697}\sqrt{4845e^{15}},$ $\frac{9}{1697}\sqrt{8854e^{16}} + \frac{36}{1697}\sqrt{1159e^{37}}$	$(-\frac{365}{1697}, \frac{378}{1697}, -\frac{280}{1697}, \frac{208}{1697}, \frac{1187}{1697}, \frac{13}{1697}, -\frac{72}{1697}, \frac{822}{1697}, -\frac{352}{1697})$ $+ \frac{9}{1697}\sqrt{52630e^5} \otimes e_9$	{123567, 1256, 13489, 14789, 23578, 258, 3469, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 279	$0, 0, 0, 0, 0, \frac{14}{4849}\sqrt{6851}e^{12}, \frac{112}{4849}\sqrt{238}e^{34}, \frac{56}{4849}\sqrt{1853}e^{15},$ $\frac{28}{4849}\sqrt{85}e^{16} + \frac{28}{4849}\sqrt{3791}e^{37}$	$(-\frac{826}{4849}, \frac{938}{4849}, -\frac{1253}{4849}, \frac{1792}{4849}, \frac{952}{4849}, \frac{112}{4849}, \frac{539}{4849}, \frac{126}{4849}, -\frac{714}{4849})$ $+ \frac{14}{4849}\sqrt{36601}e^4 \otimes e_8 + \frac{14}{4849}\sqrt{36737}e^5 \otimes e_9$	{23578, 258, 3469, 4679}
941: 279	$0, 0, 0, 0, 0, \frac{10}{1381}\sqrt{429}e^{12}, \frac{110}{1381}\sqrt{39}e^{34}, \frac{10}{1381}\sqrt{5005}e^{15},$ $\frac{30}{1381}\sqrt{143}e^{16} + \frac{60}{1381}\sqrt{143}e^{37}$	$(\frac{165}{1381}, \frac{159}{1381}, \frac{330}{1381}, -\frac{171}{1381}, -\frac{485}{1381}, \frac{324}{1381}, \frac{159}{1381}, -\frac{320}{1381}, \frac{489}{1381})$ $+ \frac{130}{1381}\sqrt{69}e^3 \otimes e_8 + \frac{20}{1381}\sqrt{949}e^1 \otimes e_5$	{128, 146789, 2568, 45789}
941: 279	$0, 0, 0, 0, 0, \frac{4}{1653}\sqrt{22965}e^{12}, \frac{1}{1653}\sqrt{1687162}e^{34}, \frac{12}{551}\sqrt{1531}e^{15},$ $\frac{1}{551}\sqrt{58178}e^{16} + \frac{1}{551}\sqrt{52054}e^{37}$	$(-\frac{23}{551}, \frac{136}{551}, -\frac{416}{1653}, \frac{2}{3}, -\frac{120}{1653}, \frac{113}{551}, \frac{686}{1653}, -\frac{143}{551}, \frac{90}{551})$ $+ \frac{1}{1653}\sqrt{4179630}e^4 \otimes e_8$	{1234569, 1245679, 1378, 18, 2349, 2479, 35678, 568}
941: 279	$0, 0, 0, 0, 0, \frac{1}{1801}\sqrt{1022606}e^{12}, \frac{12}{1801}\sqrt{1063}e^{34}, \frac{1}{1801}\sqrt{499610}e^{15},$ $\frac{4}{1801}\sqrt{58465}e^{16} + \frac{1}{1801}\sqrt{261498}e^{37}$	$(\frac{522}{1801}, -\frac{265}{1801}, \frac{614}{1801}, -\frac{449}{1801}, -\frac{541}{1801}, \frac{257}{1801}, \frac{165}{1801}, -\frac{19}{1801}, \frac{779}{1801})$ $+ \frac{1}{1801}\sqrt{1260718}e^3 \otimes e_4 + \frac{8}{1801}\sqrt{32953}e^1 \otimes e_5$	{12479, 1367, 245679, 357}
941: 279	$0, 0, 0, 0, 0, \frac{114}{11821}\sqrt{265}e^{12}, \frac{684}{11821}\sqrt{5}e^{34}, \frac{57}{11821}\sqrt{5518}e^{15},$ $\frac{57}{11821}\sqrt{86}e^{16} + \frac{57}{11821}\sqrt{5730}e^{37}$	$(-\frac{2166}{11821}, \frac{3819}{11821}, \frac{912}{11821}, -\frac{2337}{11821}, \frac{2736}{11821}, \frac{1653}{11821}, -\frac{1425}{11821}, \frac{570}{11821}, -\frac{513}{11821})$ $+ \frac{57}{11821}\sqrt{6114}e^3 \otimes e_4 + \frac{57}{11821}\sqrt{6538}e^2 \otimes e_8 + \frac{57}{11821}\sqrt{8830}e^5 \otimes e_9$	{12357, 146789}
941: 279	$0, 0, 0, 0, 0, \frac{2}{1607}\sqrt{441870}e^{12}, \frac{2}{1607}\sqrt{56238}e^{34}, \frac{1}{1607}\sqrt{998894}e^{15},$ $\frac{3}{1607}\sqrt{211562}e^{16} + \frac{3}{1607}\sqrt{45526}e^{37}$	$(\frac{609}{1607}, -\frac{408}{1607}, \frac{321}{1607}, \frac{168}{1607}, \frac{730}{1607}, \frac{201}{1607}, \frac{489}{1607}, -\frac{121}{1607}, \frac{810}{1607})$ $+ \frac{1}{1607}\sqrt{3628690}e^1 \otimes e_5$	{12379, 129, 1346, 1467, 235679, 2569, 345, 457}
941: 279	$0, 0, 0, 0, 0, \frac{1}{1637}\sqrt{251198}e^{12}, \frac{4}{1637}\sqrt{26767}e^{34}, \frac{1}{1637}\sqrt{531222}e^{15},$ $\frac{4}{1637}\sqrt{35003}e^{16} + \frac{1}{1637}\sqrt{2433738}e^{37}$	$(\frac{258}{1637}, \frac{251}{1637}, \frac{942}{1637}, -\frac{1117}{1637}, \frac{183}{1637}, \frac{509}{1637}, -\frac{175}{1637}, \frac{441}{1637}, \frac{767}{1637})$ $+ \frac{5}{1637}\sqrt{218254}e^3 \otimes e_4$	{12357, 12378, 145679, 146789, 235678, 2367, 45789, 479}
941: 279	$0, 0, 0, 0, 0, \frac{2}{1373}\sqrt{20315}e^{12}, \frac{1}{1373}\sqrt{45410}e^{34}, \frac{1}{1373}\sqrt{380010}e^{15},$ $\frac{3}{1373}\sqrt{28202}e^{16} + \frac{2}{1373}\sqrt{42781}e^{37}$	$(\frac{135}{1373}, -\frac{343}{1373}, -\frac{84}{1373}, \frac{95}{1373}, \frac{405}{1373}, -\frac{208}{1373}, \frac{11}{1373}, \frac{540}{1373}, -\frac{73}{1373})$ $+ \frac{1}{1373}\sqrt{545398}e^1 \otimes e_2 + \frac{4}{1373}\sqrt{39435}e^5 \otimes e_9$	{13489, 14789, 23578, 258}
941: 279	$0, 0, 0, 0, 0, \frac{2}{4821}\sqrt{973985}e^{12}, \frac{2}{4821}\sqrt{289965}e^{34}, \frac{2}{4821}\sqrt{1292203}e^{15},$ $\frac{4}{4821}\sqrt{159109}e^{16} + \frac{20}{4821}\sqrt{14870}e^{37}$	$(-\frac{511}{4821}, \frac{2179}{4821}, \frac{459}{1607}, \frac{1597}{4821}, -\frac{284}{4821}, \frac{556}{1607}, -\frac{220}{4821}, \frac{265}{1607}, \frac{1157}{4821})$ $+ \frac{2}{4821}\sqrt{2954669}e^3 \otimes e_4 + \frac{2}{4821}\sqrt{3344263}e^2 \otimes e_8$	{12357, 146789, 2367, 45789}
941: 279	$0, 0, 0, 0, 0, \frac{12}{611}\sqrt{174}e^{12}, \frac{12}{611}\sqrt{435}e^{34}, \frac{3}{611}\sqrt{12122}e^{15},$ $\frac{24}{611}\sqrt{29}e^{16} + \frac{3}{611}\sqrt{638}e^{37}$	$(\frac{123}{611}, -\frac{138}{611}, -\frac{66}{611}, \frac{240}{611}, -\frac{144}{611}, -\frac{15}{611}, \frac{174}{611}, -\frac{21}{611}, \frac{108}{611})$ $+ \frac{3}{611}\sqrt{14558}e^1 \otimes e_2 + \frac{3}{611}\sqrt{17110}e^4 \otimes e_8$	{13459, 14579, 23578, 258}
941: 279	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{23}e^{12}, \frac{1}{41}\sqrt{230}e^{34}, \frac{1}{41}\sqrt{966}e^{15},$ $\frac{1}{41}\sqrt{966}e^{16} + \frac{2}{41}\sqrt{23}e^{37}$	$(\frac{21}{41}, -\frac{25}{41}, \frac{6}{41}, \frac{5}{41}, -\frac{3}{41}, -\frac{4}{41}, \frac{11}{41}, \frac{18}{41}, \frac{17}{41})$ $+ \frac{1}{41}\sqrt{3082}e^1 \otimes e_2$	{13579, 13789, 159, 189, 234, 23458, 24578, 247}
941: 280	$0, 0, 0, 0, 0, \frac{2}{91}\sqrt{42}e^{12}, \frac{2}{91}\sqrt{21}e^{34}, \frac{4}{91}\sqrt{42}e^{15},$ $\frac{2}{91}\sqrt{154}e^{26} + \frac{4}{91}\sqrt{21}e^{37}$	$(-\frac{3}{13}, \frac{2}{13}, \frac{1}{13}, -\frac{1}{13}, \frac{3}{13}, -\frac{1}{13}, 0, 0, \frac{1}{13})$ $+ \frac{12}{91}\sqrt{7}e^5 \otimes e_9 + \frac{2}{91}\sqrt{231}e^2 \otimes e_8 + \frac{2}{91}\sqrt{91}e^3 \otimes e_4$	{146789, 3578}
941: 280	$0, 0, 0, 0, 0, \frac{8}{431}\sqrt{777}e^{12}, \frac{4}{431}\sqrt{629}e^{34}, \frac{4}{431}\sqrt{407}e^{15},$ $\frac{4}{431}\sqrt{407}e^{26} + \frac{8}{431}\sqrt{777}e^{37}$	$(\frac{168}{431}, -\frac{22}{431}, \frac{140}{431}, -\frac{156}{431}, -\frac{128}{431}, \frac{146}{431}, -\frac{16}{431}, \frac{40}{431}, \frac{124}{431})$ $+ \frac{4}{431}\sqrt{7030}e^1 \otimes e_5 + \frac{4}{431}\sqrt{7030}e^3 \otimes e_4$	{1237, 1367, 245679, 4579}
941: 280	$0, 0, 0, 0, 0, \frac{128}{5971}\sqrt{34}e^{12}, \frac{24}{5971}\sqrt{2193}e^{34}, \frac{8}{5971}\sqrt{36737}e^{15},$ $\frac{8}{5971}\sqrt{7157}e^{26} + \frac{40}{5971}\sqrt{1258}e^{37}$	$(-\frac{1024}{5971}, \frac{716}{5971}, \frac{472}{5971}, -\frac{536}{5971}, \frac{136}{853}, -\frac{44}{853}, -\frac{64}{5971}, -\frac{72}{5971}, \frac{408}{5971})$ $+ \frac{16}{5971}\sqrt{10574}e^5 \otimes e_9 + \frac{8}{5971}\sqrt{48586}e^3 \otimes e_8$	{123567, 1357, 2349, 3469}
941: 280	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{299}e^{12}, \frac{4}{159}\sqrt{161}e^{34}, \frac{4}{477}\sqrt{2967}e^{15},$ $\frac{2}{477}\sqrt{4830}e^{26} + \frac{2}{477}\sqrt{4830}e^{37}$	$(-\frac{26}{159}, \frac{8}{159}, -\frac{11}{53}, \frac{56}{159}, \frac{12}{53}, -\frac{6}{53}, \frac{23}{159}, \frac{10}{159}, -\frac{10}{159})$ $+ \frac{10}{159}\sqrt{69}e^5 \otimes e_9 + \frac{2}{477}\sqrt{13593}e^4 \otimes e_8$	{2349, 2479, 3469, 4679}
941: 280	$0, 0, 0, 0, 0, \frac{16}{1127}\sqrt{933}e^{12}, \frac{2}{1127}\sqrt{15861}e^{34}, \frac{16}{1127}\sqrt{933}e^{15},$ $\frac{8}{1127}\sqrt{4354}e^{26} + \frac{2}{1127}\sqrt{1866}e^{37}$	$(-\frac{33}{161}, \frac{352}{1127}, \frac{365}{1127}, -\frac{257}{1127}, -\frac{39}{1127}, \frac{121}{1127}, \frac{108}{1127}, -\frac{270}{1127}, \frac{473}{1127})$ $+ \frac{2}{1127}\sqrt{111649}e^3 \otimes e_4 + \frac{2}{1127}\sqrt{191265}e^2 \otimes e_8$	{124579, 146789, 2367, 3578}
941: 280	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{34}e^{12}, \frac{1}{9}\sqrt{51}e^{34}, \frac{1}{54}\sqrt{1938}e^{15},$ $\frac{1}{54}\sqrt{255}e^{26} + \frac{1}{54}\sqrt{255}e^{37}$	$(-\frac{1}{9}, \frac{7}{36}, -\frac{7}{36}, \frac{2}{3}, -\frac{1}{6}, \frac{1}{12}, \frac{17}{36}, -\frac{5}{18}, \frac{5}{18})$ $+ \frac{1}{27}\sqrt{1122}e^4 \otimes e_8$	{123678, 1268, 1378, 18, 2349, 2479, 3469, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:280	$0, 0, 0, 0, 0, \frac{2}{123}\sqrt{285}e^{12}, \frac{2}{123}\sqrt{1558}e^{34}, \frac{2}{123}\sqrt{1653}e^{15},$ $\frac{2}{123}\sqrt{285}e^{26} + \frac{2}{123}\sqrt{1653}e^{37}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{77}{246}, -\frac{20}{123}, -\frac{15}{82}, \frac{7}{41}, \frac{37}{246}, -\frac{25}{82}, \frac{19}{41})$ $+ \frac{4}{123}\sqrt{969}e^3 \otimes e_8$	{1234569, 1246789, 13459, 14789, 237, 258, 367, 568}
941:280	$0, 0, 0, 0, 0, \frac{32}{4147}\sqrt{915}e^{12}, \frac{24}{4147}\sqrt{6893}e^{34}, \frac{8}{4147}\sqrt{57157}e^{15},$ $\frac{24}{4147}\sqrt{1159}e^{26} + \frac{8}{4147}\sqrt{65514}e^{37}$	$(\frac{480}{4147}, \frac{492}{4147}, \frac{960}{4147}, -\frac{456}{4147}, -\frac{1472}{4147}, \frac{972}{4147}, \frac{504}{4147}, -\frac{992}{4147}, \frac{1464}{4147})$ $+ \frac{16}{4147}\sqrt{16714}e^1 \otimes e_5 + \frac{8}{4147}\sqrt{151890}e^3 \otimes e_8$	{128, 168, 2456789, 45789}
941:280	$0, 0, 0, 0, 0, \frac{4}{5747}\sqrt{62790}e^{12}, \frac{60}{5747}\sqrt{299}e^{34}, \frac{12}{5747}\sqrt{43355}e^{15},$ $\frac{4}{5747}\sqrt{200629}e^{26} + \frac{12}{5747}\sqrt{14053}e^{37}$	$(-\frac{60}{821}, \frac{214}{5747}, \frac{800}{5747}, -\frac{1592}{5747}, \frac{2400}{5747}, -\frac{206}{5747}, -\frac{792}{5747}, \frac{1980}{5747}, \frac{8}{5747})$ $+ \frac{4}{5747}\sqrt{610558}e^3 \otimes e_4 + \frac{4}{5747}\sqrt{905970}e^5 \otimes e_9$	{123567, 1357, 2479, 4679}
941:280	$0, 0, 0, 0, 0, \frac{3}{247}\sqrt{602}e^{12}, \frac{3}{247}\sqrt{645}e^{34}, \frac{3}{247}\sqrt{3741}e^{15},$ $\frac{3}{494}\sqrt{10621}e^{26} + \frac{3}{494}\sqrt{10621}e^{37}$	$(-\frac{28}{247}, -\frac{11}{988}, -\frac{127}{988}, \frac{30}{247}, \frac{160}{247}, -\frac{123}{988}, -\frac{7}{988}, \frac{132}{247}, -\frac{67}{494})$ $+ \frac{3}{247}\sqrt{8686}e^5 \otimes e_9$	{123567, 1256, 1357, 15, 2349, 2479, 3469, 4679}
941:280	$0, 0, 0, 0, 0, \frac{3}{494}\sqrt{10621}e^{12}, \frac{3}{247}\sqrt{645}e^{34}, \frac{3}{494}\sqrt{10621}e^{15},$ $\frac{3}{247}\sqrt{3741}e^{26} + \frac{3}{247}\sqrt{602}e^{37}$	$(-\frac{157}{494}, \frac{393}{988}, \frac{44}{247}, \frac{30}{247}, -\frac{67}{988}, \frac{79}{247}, \frac{74}{247}, -\frac{381}{988}, \frac{118}{247})$ $+ \frac{3}{247}\sqrt{8686}e^2 \otimes e_8$	{123579, 1259, 136789, 1689, 2346, 2467, 3458, 4578}
941:280	$0, 0, 0, 0, 0, \frac{4}{455}\sqrt{418}e^{12}, \frac{4}{455}\sqrt{187}e^{34}, \frac{4}{455}\sqrt{1529}e^{15},$ $\frac{4}{455}\sqrt{1529}e^{26} + \frac{4}{455}\sqrt{418}e^{37}$	$(-\frac{18}{65}, \frac{76}{455}, -\frac{4}{455}, \frac{34}{455}, \frac{114}{455}, -\frac{10}{91}, \frac{6}{91}, -\frac{12}{455}, \frac{2}{35})$ $+ \frac{4}{455}\sqrt{2222}e^2 \otimes e_8 + \frac{4}{455}\sqrt{2222}e^5 \otimes e_9$	{134689, 146789, 3578, 58}
941:280	$0, 0, 0, 0, 0, \frac{1}{66}\sqrt{574}e^{12}, \frac{1}{33}\sqrt{287}e^{34}, \frac{1}{198}\sqrt{8610}e^{15},$ $\frac{1}{198}\sqrt{1599}e^{26} + \frac{1}{198}\sqrt{1599}e^{37}$	$(\frac{7}{33}, -\frac{1}{132}, -\frac{5}{44}, \frac{14}{33}, -\frac{22}{44}, \frac{9}{44}, \frac{41}{132}, -\frac{13}{66}, \frac{13}{66})$ $+ \frac{2}{33}\sqrt{123}e^1 \otimes e_5 + \frac{5}{99}\sqrt{246}e^4 \otimes e_8$	{235678, 2568, 3578, 58}
941:280	$0, 0, 0, 0, 0, \frac{1}{94}\sqrt{7854}e^{12}, \frac{1}{47}\sqrt{357}e^{34}, \frac{1}{94}\sqrt{1190}e^{15},$ $\frac{1}{94}\sqrt{1190}e^{26} + \frac{1}{94}\sqrt{1190}e^{37}$	$(\frac{33}{47}, -\frac{39}{188}, \frac{15}{188}, \frac{6}{47}, -\frac{53}{94}, \frac{93}{188}, \frac{39}{188}, \frac{13}{94}, \frac{27}{94})$ $+ \frac{1}{47}\sqrt{4522}e^1 \otimes e_5$	{12349, 12479, 13469, 14679, 23567, 256, 357, 5}
941:280	$0, 0, 0, 0, 0, \frac{24}{5747}\sqrt{14053}e^{12}, \frac{60}{5747}\sqrt{299}e^{34}, \frac{4}{5747}\sqrt{200629}e^{15},$ $\frac{12}{5747}\sqrt{43355}e^{26} + \frac{4}{5747}\sqrt{62790}e^{37}$	$(\frac{354}{5747}, \frac{708}{5747}, \frac{660}{5747}, \frac{450}{5747}, -\frac{2038}{5747}, \frac{1062}{5747}, \frac{1110}{5747}, -\frac{1684}{5747}, \frac{1770}{5747})$ $+ \frac{4}{5747}\sqrt{610558}e^1 \otimes e_5 + \frac{4}{5747}\sqrt{905970}e^2 \otimes e_8$	{136789, 1689, 3458, 4578}
941:280	$0, 0, 0, 0, 0, \frac{3}{94}\sqrt{119}e^{12}, \frac{1}{47}\sqrt{357}e^{34}, \frac{3}{94}\sqrt{119}e^{15},$ $\frac{1}{94}\sqrt{1190}e^{26} + \frac{1}{94}\sqrt{7854}e^{37}$	$(\frac{9}{94}, \frac{37}{188}, \frac{55}{94}, -\frac{32}{47}, \frac{27}{188}, \frac{188}{188}, -\frac{9}{94}, \frac{45}{188}, \frac{23}{47})$ $+ \frac{1}{47}\sqrt{4522}e^3 \otimes e_4$	{12357, 12378, 13567, 13678, 2456789, 24679, 45789, 479}
941:281	$0, 0, 0, 0, 0, \frac{152}{2953}\sqrt{201}e^{12}, \frac{4}{2953}\sqrt{28006}e^{34},$ $\frac{6}{2953}\sqrt{82745}e^{13} + \frac{8}{2953}\sqrt{29279}e^{24} + \frac{2}{2953}\sqrt{1146973}e^{16} + \frac{134}{2953}\sqrt{95}e^{37}$	$(\frac{555}{2953}, -\frac{63}{2953}, \frac{143}{2953}, \frac{761}{2953}, -\frac{1991}{2953}, \frac{492}{2953}, \frac{904}{2953}, \frac{698}{2953}, \frac{1047}{2953})$ $+ \frac{4}{2953}\sqrt{786714}e^1 \otimes e_5$	{12379, 1346, 2569, 457}
941:281	$0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}e^{34}, \frac{1}{2}\sqrt{2}e^{13} + \frac{1}{4}\sqrt{2}e^{24},$ $\frac{1}{4}\sqrt{10}e^{16} + \frac{1}{4}\sqrt{10}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{4}\sqrt{26}e^5 \otimes e_9$	{12479, 156}
941:281	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{10}e^{12}, \frac{1}{5}\sqrt{10}e^{34}, \frac{2}{5}\sqrt{5}e^{13} + \frac{1}{3}\sqrt{6}e^{24},$ $\frac{1}{15}\sqrt{30}e^{16} + \frac{1}{15}\sqrt{30}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{1}{15}\sqrt{390}e^5 \otimes e_8$	{12345679, 135, 2459, 567}
941:281	$0, 0, 0, 0, 0, \frac{6}{757}\sqrt{10166}e^{12}, \frac{4}{757}\sqrt{2737}e^{34},$ $\frac{2}{757}\sqrt{64515}e^{13} + \frac{4}{757}\sqrt{21505}e^{24} + \frac{4}{757}\sqrt{7429}e^{16} + \frac{4}{757}\sqrt{7429}e^{37}$	$(-\frac{6}{757}, \frac{303}{757}, \frac{200}{757}, -\frac{109}{757}, -\frac{479}{757}, \frac{297}{757}, \frac{91}{757}, \frac{194}{757}, \frac{291}{757})$ $+ \frac{2}{757}\sqrt{241638}e^2 \otimes e_5$	{12479, 156, 23469, 357}
941:282	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{781}e^{12}, \frac{1}{37}\sqrt{110}e^{34}, \frac{1}{37}\sqrt{385}e^{14} + \frac{1}{37}\sqrt{286}e^{23},$ $\frac{1}{37}\sqrt{682}e^{16} + \frac{1}{37}\sqrt{11}e^{37}$	$(\frac{9}{37}, -\frac{1}{37}, \frac{9}{37}, -\frac{1}{37}, -\frac{24}{37}, \frac{8}{37}, \frac{8}{37}, \frac{8}{37}, \frac{17}{37})$ $+ \frac{1}{37}\sqrt{2013}e^1 \otimes e_5$	{12479, 168, 2345689, 357}
941:282	$0, 0, 0, 0, 0, \frac{4}{265}\sqrt{1729}e^{12}, \frac{4}{265}\sqrt{1729}e^{34}, \frac{8}{265}\sqrt{798}e^{14} + \frac{8}{265}\sqrt{798}e^{23},$ $\frac{2}{265}\sqrt{1995}e^{16} + \frac{2}{265}\sqrt{1995}e^{37}$	$(\frac{7}{265}, -\frac{8}{265}, \frac{7}{265}, -\frac{8}{265}, 1, -\frac{1}{265}, -\frac{1}{265}, -\frac{1}{265}, \frac{6}{265})$ $+ \frac{2}{265}\sqrt{30457}e^5 \otimes e_8$	{12345679, 138, 2489, 567}
941:282	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{5474}e^{12}, \frac{2}{297}\sqrt{5474}e^{34}, \frac{46}{297}\sqrt{7}e^{14} + \frac{46}{297}\sqrt{7}e^{23},$ $\frac{8}{297}\sqrt{805}e^{16} + \frac{8}{297}\sqrt{805}e^{37}$	$(-\frac{35}{297}, \frac{5}{33}, -\frac{35}{297}, \frac{5}{33}, 1, \frac{10}{297}, \frac{10}{297}, \frac{10}{297}, -\frac{25}{297})$ $+ \frac{2}{297}\sqrt{38801}e^5 \otimes e_9$	{123489, 13567, 24679, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:282	$0, 0, 0, 0, 0, \frac{14}{285}\sqrt{249}e^{12}, \frac{28}{285}\sqrt{3}e^{34}, \frac{14}{285}\sqrt{183}e^{14} + \frac{14}{285}\sqrt{291}e^{23},$ $\frac{14}{285}\sqrt{141}e^{16} + \frac{56}{285}\sqrt{6}e^{37}$	$(-\frac{7}{95}, \frac{7}{19}, -\frac{7}{95}, \frac{7}{19}, -\frac{63}{95}, \frac{28}{95}, \frac{28}{95}, \frac{28}{95}, \frac{21}{95})$ $+ \frac{14}{95}\sqrt{79}e^2 \otimes e_5$	{12379, 134568, 2689, 457}
941:283	$0, 0, 0, 0, 0, \frac{2}{783}\sqrt{16286}e^{12}, \frac{4}{783}\sqrt{11017}e^{34},$ $\frac{10}{783}\sqrt{2395}e^{13} + \frac{2}{783}\sqrt{4790}e^{25}, \frac{2}{783}\sqrt{33051}e^{16} + \frac{2}{783}\sqrt{33051}e^{37}$	$(-\frac{11}{87}, \frac{487}{783}, \frac{115}{783}, \frac{59}{783}, -\frac{157}{261}, \frac{388}{261}, \frac{2}{9}, \frac{16}{783}, \frac{289}{783})$ $+ \frac{4}{783}\sqrt{75682}e^2 \otimes e_5$	{12479, 156, 23469, 357}
941:283	$0, 0, 0, 0, 0, \frac{12}{727}\sqrt{391}e^{12}, \frac{8}{727}\sqrt{1173}e^{34}, \frac{34}{727}\sqrt{345}e^{13} + \frac{12}{727}\sqrt{391}e^{25},$ $\frac{2}{727}\sqrt{44183}e^{16} + \frac{2}{727}\sqrt{76245}e^{37}$	$(\frac{5}{727}, \frac{183}{727}, \frac{325}{727}, -\frac{457}{727}, \frac{147}{727}, \frac{188}{727}, -\frac{132}{727}, \frac{330}{727}, \frac{193}{727})$ $+ \frac{4}{727}\sqrt{60214}e^3 \otimes e_4$	{12369, 148, 23589, 456}
941:283	$0, 0, 0, 0, 0, \frac{11}{196}\sqrt{34}e^{12}, \frac{11}{196}\sqrt{78}e^{34}, \frac{11}{98}\sqrt{5}e^{13} + \frac{55}{294}\sqrt{6}e^{25},$ $\frac{11}{588}\sqrt{69}e^{16} + \frac{11}{588}\sqrt{69}e^{37}$	$(-\frac{11}{392}, \frac{11}{49}, -\frac{55}{392}, \frac{22}{49}, -\frac{11}{28}, \frac{11}{56}, \frac{121}{392}, -\frac{33}{196}, \frac{33}{196})$ $+ \frac{11}{196}\sqrt{138}e^2 \otimes e_5 + \frac{11}{588}\sqrt{1830}e^4 \otimes e_8$	{1568, 3578}
941:283	$0, 0, 0, 0, 0, \frac{70}{3701}\sqrt{534}e^{12}, \frac{70}{3701}\sqrt{34}e^{34},$ $\frac{910}{3701}\sqrt{3}e^{13} + \frac{140}{3701}\sqrt{53}e^{25}, \frac{70}{3701}\sqrt{251}e^{16} + \frac{70}{3701}\sqrt{651}e^{37}$	$(-\frac{385}{3701}, \frac{1575}{3701}, \frac{1085}{3701}, -\frac{1365}{3701}, -\frac{875}{3701}, \frac{1190}{3701}, -\frac{280}{3701}, \frac{700}{3701}, \frac{805}{3701})$ $+ \frac{140}{3701}\sqrt{373}e^2 \otimes e_5 + \frac{140}{3701}\sqrt{451}e^3 \otimes e_4$	{13569, 246}
941:283	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{14}\sqrt{21}e^{34}, \frac{1}{28}\sqrt{70}e^{13} + \frac{1}{42}\sqrt{357}e^{25},$ $\frac{1}{12}\sqrt{15}e^{16} + \frac{1}{12}\sqrt{15}e^{37}$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{28}\sqrt{210}e^5 \otimes e_9 + \frac{1}{84}\sqrt{1218}e^4 \otimes e_8$	{1479, 3469}
941:283	$0, 0, 0, 0, 0, \frac{24}{815}\sqrt{46}e^{12}, \frac{12}{815}\sqrt{897}e^{34}, \frac{18}{815}\sqrt{851}e^{13} + \frac{12}{815}\sqrt{2139}e^{25},$ $\frac{6}{815}\sqrt{6601}e^{16} + \frac{6}{815}\sqrt{6601}e^{37}$	$(\frac{149}{815}, -\frac{269}{815}, \frac{5}{163}, -\frac{21}{815}, \frac{443}{815}, -\frac{24}{163}, \frac{4}{815}, \frac{174}{815}, \frac{29}{815})$ $+ \frac{12}{815}\sqrt{3910}e^5 \otimes e_9$	{123489, 135678, 246789, 58}
941:284	$0, 0, 0, 0, 0, \frac{14}{471}\sqrt{23}e^{12}, \frac{14}{1413}\sqrt{2323}e^{34},$ $\frac{644}{1413}\sqrt{3}e^{15} + \frac{14}{1413}\sqrt{4163}e^{23}, \frac{7}{1413}\sqrt{4646}e^{16} + \frac{14}{471}\sqrt{713}e^{37}$	$(-\frac{427}{1413}, \frac{196}{471}, -\frac{154}{1413}, \frac{14}{471}, \frac{287}{471}, \frac{161}{1413}, -\frac{112}{1413}, \frac{434}{1413}, -\frac{266}{1413})$ $+ \frac{7}{1413}\sqrt{53774}e^5 \otimes e_9$	{123489, 13567, 24679, 58}
941:284	$0, 0, 0, 0, 0, \frac{644}{1353}\sqrt{3}e^{12}, \frac{7}{1353}\sqrt{2990}e^{34},$ $\frac{56}{1353}\sqrt{230}e^{15} + \frac{7}{1353}\sqrt{782}e^{23}, \frac{7}{451}\sqrt{3082}e^{16} + \frac{28}{1353}\sqrt{391}e^{37}$	$(\frac{518}{1353}, -\frac{119}{451}, \frac{266}{1353}, \frac{49}{451}, \frac{203}{451}, \frac{161}{1353}, \frac{413}{1353}, -\frac{91}{1353}, \frac{679}{1353})$ $+ \frac{7}{1353}\sqrt{52486}e^1 \otimes e_5$	{12379, 1467, 235679, 457}
941:284	$0, 0, 0, 0, 0, \frac{14}{145}\sqrt{5}e^{12}, \frac{7}{145}\sqrt{58}e^{34}, \frac{7}{145}\sqrt{110}e^{15} + \frac{21}{145}\sqrt{2}e^{23},$ $\frac{7}{145}\sqrt{2}e^{16} + \frac{7}{145}\sqrt{62}e^{37}$	$(-\frac{28}{145}, \frac{7}{29}, -\frac{7}{29}, \frac{49}{145}, \frac{28}{145}, \frac{7}{145}, \frac{14}{145}, 0, -\frac{21}{145})$ $+ \frac{14}{145}\sqrt{31}e^4 \otimes e_8 + \frac{7}{145}\sqrt{134}e^5 \otimes e_9$	{2479, 568}
941:284	$0, 0, 0, 0, 0, \frac{7}{87}\sqrt{39}e^{12}, \frac{7}{87}e^{34}, \frac{7}{87}\sqrt{29}e^{15} + \frac{7}{87}\sqrt{23}e^{23},$ $\frac{7}{29}\sqrt{5}e^{16} + \frac{7}{87}\sqrt{5}e^{37}$	$(\frac{28}{87}, -\frac{7}{29}, \frac{28}{87}, -\frac{7}{29}, -\frac{7}{29}, \frac{7}{87}, \frac{7}{87}, \frac{7}{87}, \frac{35}{87})$ $- \frac{7}{29}\sqrt{7}e^3 \otimes e_4 + \frac{7}{87}\sqrt{91}e^1 \otimes e_5$	{1239, 146, 23569, 45}
941:284	$0, 0, 0, 0, 0, \frac{7}{87}\sqrt{39}e^{12}, \frac{7}{87}e^{34}, \frac{7}{87}\sqrt{29}e^{15} + \frac{7}{87}\sqrt{23}e^{23},$ $\frac{7}{29}\sqrt{5}e^{16} + \frac{7}{87}\sqrt{5}e^{37}$	$(\frac{28}{87}, -\frac{7}{29}, \frac{28}{87}, -\frac{7}{29}, -\frac{7}{29}, \frac{7}{87}, \frac{7}{87}, \frac{7}{87}, \frac{35}{87})$ $+ \frac{7}{29}\sqrt{7}e^3 \otimes e_4 + \frac{7}{87}\sqrt{91}e^1 \otimes e_5$	{1239, 146, 23569, 45}
941:284	$0, 0, 0, 0, 0, \frac{7}{1345}\sqrt{2418}e^{12}, \frac{28}{1345}\sqrt{186}e^{34},$ $\frac{21}{1345}\sqrt{186}e^{15} + \frac{28}{1345}\sqrt{1457}e^{23}, \frac{28}{1345}\sqrt{93}e^{16} + \frac{7}{1345}\sqrt{20522}e^{37}$	$(\frac{322}{1345}, -\frac{21}{269}, \frac{686}{1345}, -\frac{833}{1345}, \frac{259}{1345}, \frac{217}{1345}, -\frac{147}{1345}, \frac{581}{1345}, \frac{539}{1345})$ $+ \frac{7}{1345}\sqrt{69006}e^3 \otimes e_4$	{12369, 14, 2359, 456}
941:284	$0, 0, 0, 0, 0, \frac{70}{2761}\sqrt{299}e^{12}, \frac{140}{2761}\sqrt{195}e^{34},$ $\frac{70}{2761}\sqrt{941}e^{15} + \frac{70}{2761}\sqrt{421}e^{23}, \frac{140}{2761}\sqrt{46}e^{16} + \frac{140}{2761}\sqrt{19}e^{37}$	$(\frac{7}{2761}, \frac{343}{2761}, -\frac{812}{2761}, \frac{1981}{2761}, -\frac{476}{2761}, \frac{350}{2761}, \frac{1169}{2761}, -\frac{469}{2761}, \frac{357}{2761})$ $+ \frac{140}{2761}\sqrt{574}e^4 \otimes e_8$	{1234569, 1378, 2349, 35678}
941:284	$0, 0, 0, 0, 0, \frac{98}{4285}\sqrt{334}e^{12}, \frac{98}{4285}\sqrt{326}e^{34},$ $\frac{49}{4285}\sqrt{282}e^{15} + \frac{98}{4285}\sqrt{181}e^{23}, \frac{49}{4285}\sqrt{1730}e^{16} + \frac{49}{4285}\sqrt{458}e^{37}$	$(\frac{833}{4285}, -\frac{98}{857}, -\frac{49}{857}, \frac{1666}{4285}, -\frac{1568}{4285}, \frac{343}{4285}, \frac{1421}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+ \frac{49}{4285}\sqrt{3934}e^1 \otimes e_5 + \frac{98}{4285}\sqrt{889}e^4 \otimes e_8$	{1289, 25689}
941:284	$0, 0, 0, 0, 0, \frac{56}{1173}\sqrt{10}e^{12}, \frac{56}{3519}\sqrt{166}e^{34},$ $\frac{896}{3519}\sqrt{3}e^{15} + \frac{56}{3519}\sqrt{101}e^{23}, \frac{56}{3519}\sqrt{83}e^{16} + \frac{56}{1173}\sqrt{131}e^{37}$	$(-\frac{364}{3519}, \frac{196}{1173}, \frac{28}{207}, -\frac{364}{1173}, \frac{28}{69}, \frac{224}{3519}, -\frac{616}{3519}, \frac{1064}{3519}, -\frac{140}{3519})$ $+ \frac{392}{1173}\sqrt{3}e^3 \otimes e_4 + \frac{56}{3519}\sqrt{1799}e^5 \otimes e_9$	{14789, 23578}
941:285	$0, 0, 0, 0, 0, \frac{4}{623}\sqrt{406}e^{12}, \frac{12}{623}\sqrt{91}e^{34}, \frac{12}{623}\sqrt{14}e^{13} + \frac{4}{623}\sqrt{1547}e^{25},$ $\frac{4}{89}\sqrt{5}e^{16} + \frac{8}{89}\sqrt{7}e^{47}$	$(\frac{10}{89}, -\frac{14}{89}, -\frac{10}{89}, \frac{8}{89}, \frac{14}{89}, -\frac{4}{89}, -\frac{2}{89}, 0, \frac{6}{89})$ $+ \frac{16}{623}\sqrt{133}e^4 \otimes e_8 + \frac{4}{623}\sqrt{1778}e^5 \otimes e_9$	{1349, 2457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:285	$0, 0, 0, 0, 0, \frac{4}{3507}\sqrt{250562}e^{13} + \frac{92}{1169}\sqrt{91}e^{25}, \frac{4}{3507}\sqrt{356109}e^{16} + \frac{8}{3507}\sqrt{57707}e^{47}$	$(\frac{254}{3507}, -\frac{842}{3507}, \frac{962}{3507}, -\frac{216}{1169}, \frac{98}{167}, -\frac{28}{167}, \frac{314}{3507}, \frac{1216}{3507}, -\frac{2}{21})$ $+ \frac{4}{3507}\sqrt{867698}e^5 \otimes e_9$	{124567, 1256, 3469, 3679}
941:285	$0, 0, 0, 0, 0, \frac{8}{3363}\sqrt{167241}e^{12}, \frac{4}{3363}\sqrt{181829}e^{34}, \frac{4}{3363}\sqrt{213610}e^{13} + \frac{8}{3363}\sqrt{41159}e^{25}, \frac{4}{3363}\sqrt{163073}e^{16} + \frac{8}{1121}\sqrt{1563}e^{47}$	$(-\frac{550}{3363}, \frac{2158}{3363}, \frac{698}{3363}, \frac{60}{1121}, -\frac{670}{1121}, \frac{536}{1121}, \frac{878}{3363}, \frac{148}{3363}, \frac{1058}{3363})$ $+ \frac{4}{3363}\sqrt{1420246}e^2 \otimes e_5$	{14567, 156, 23469, 23679}
941:285	$0, 0, 0, 0, 0, \frac{16}{3451}\sqrt{11770}e^{13} + \frac{8}{3451}\sqrt{55715}e^{25}, \frac{8}{3451}\sqrt{30305}e^{16} + \frac{8}{3451}\sqrt{73370}e^{47}$	$(\frac{676}{3451}, -\frac{32}{3451}, -\frac{1184}{3451}, \frac{1252}{3451}, -\frac{4}{29}, \frac{92}{493}, \frac{203}{203}, -\frac{508}{3451}, \frac{1320}{3451})$ $+ \frac{8}{3451}\sqrt{160270}e^4 \otimes e_8$	{1234569, 158, 23789, 467}
941:285	$0, 0, 0, 0, 0, \frac{312}{3143}e^{12}, \frac{156}{3143}\sqrt{73}e^{34}, \frac{52}{3143}\sqrt{514}e^{13} + \frac{52}{3143}\sqrt{669}e^{25}, \frac{52}{3143}\sqrt{347}e^{16} + \frac{208}{3143}\sqrt{59}e^{47}$	$(\frac{286}{3143}, \frac{442}{3143}, -\frac{754}{3143}, \frac{884}{3143}, -\frac{130}{449}, \frac{104}{449}, \frac{130}{3143}, -\frac{468}{3143}, \frac{1014}{3143})$ $+ \frac{104}{3143}\sqrt{517}e^4 \otimes e_8 + \frac{52}{3143}\sqrt{658}e^2 \otimes e_5$	{158, 23789}
941:286	$0, 0, 0, 0, 0, \frac{1}{225}\sqrt{2222}e^{12}, \frac{1}{225}\sqrt{7474}e^{34}, \frac{4}{75}\sqrt{202}e^{15} + \frac{1}{225}\sqrt{5959}e^{23}, \frac{1}{75}\sqrt{1313}e^{16} + \frac{4}{75}\sqrt{2929}e^{47}$	$(-\frac{11}{45}, \frac{61}{225}, \frac{37}{225}, -\frac{43}{225}, \frac{17}{25}, \frac{75}{75}, -\frac{2}{75}, \frac{98}{225}, -\frac{49}{225})$ $+ \frac{1}{225}\sqrt{74437}e^5 \otimes e_9$	{124567, 1256, 3469, 3679}
941:286	$0, 0, 0, 0, 0, \frac{10}{187}\sqrt{43}e^{12}, \frac{2}{187}\sqrt{2279}e^{34}, \frac{10}{187}\sqrt{129}e^{15} + \frac{4}{187}\sqrt{301}e^{23}, \frac{2}{187}\sqrt{1763}e^{16} + \frac{4}{187}\sqrt{817}e^{47}$	$(\frac{19}{187}, \frac{25}{187}, -\frac{53}{187}, \frac{58}{187}, -\frac{47}{187}, \frac{17}{187}, \frac{4}{187}, \frac{5}{187}, -\frac{28}{187}, \frac{63}{187})$ $+ \frac{2}{187}\sqrt{6837}e^4 \otimes e_8$	{1234569, 1457, 2349, 467}
941:286	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{3}e^{12}, \frac{1}{13}\sqrt{5}e^{34}, \frac{1}{13}\sqrt{10}e^{15} + \frac{1}{26}\sqrt{6}e^{23}, \frac{1}{26}\sqrt{10}e^{16} + \frac{1}{26}\sqrt{38}e^{47}$	$(-\frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0, 0)$ $+ \frac{1}{13}\sqrt{14}e^4 \otimes e_8 + \frac{1}{26}\sqrt{38}e^5 \otimes e_9$	{1457, 2349}
941:286	$0, 0, 0, 0, 0, \frac{4}{3419}\sqrt{270155}e^{15} + \frac{4}{3419}\sqrt{42245}e^{23}, \frac{4}{3419}\sqrt{532855}e^{16} + \frac{4}{3419}\sqrt{114665}e^{47}$	$(\frac{1246}{3419}, -\frac{782}{3419}, \frac{434}{3419}, \frac{638}{3419}, -\frac{1594}{3419}, \frac{464}{3419}, \frac{1072}{3419}, -\frac{348}{3419}, \frac{1710}{3419})$ $- \frac{4}{3419}\sqrt{1024885}e^1 \otimes e_5$	{12479, 129, 1346, 1367, 245679, 2569, 345, 357}
941:286	$0, 0, 0, 0, 0, \frac{4}{3419}\sqrt{270155}e^{15} + \frac{4}{3419}\sqrt{42245}e^{23}, \frac{4}{3419}\sqrt{532855}e^{16} + \frac{4}{3419}\sqrt{114665}e^{47}$	$(\frac{1246}{3419}, -\frac{782}{3419}, \frac{434}{3419}, \frac{638}{3419}, -\frac{1594}{3419}, \frac{464}{3419}, \frac{1072}{3419}, -\frac{348}{3419}, \frac{1710}{3419})$ $+ \frac{4}{3419}\sqrt{1024885}e^1 \otimes e_5$	{12479, 129, 1346, 1367, 245679, 2569, 345, 357}
941:287	$0, 0, 0, 0, 0, \frac{1}{433}\sqrt{68730}e^{12}, \frac{2}{433}\sqrt{5655}e^{34}, \frac{10}{433}\sqrt{870}e^{15}, \frac{6}{433}\sqrt{1015}e^{16} + \frac{24}{433}\sqrt{145}e^{25} + \frac{4}{433}\sqrt{435}e^{37}$	$(-\frac{59}{433}, \frac{258}{433}, \frac{44}{433}, \frac{52}{433}, -\frac{118}{433}, \frac{199}{433}, \frac{96}{433}, -\frac{177}{433}, \frac{140}{433})$ $+ \frac{5}{433}\sqrt{12354}e^2 \otimes e_8$	{12357, 125, 34589, 45789}
941:287	$0, 0, 0, 0, 0, \frac{8}{861}\sqrt{1185}e^{12}, \frac{2}{861}\sqrt{113365}e^{34}, \frac{4}{861}\sqrt{34365}e^{15}, \frac{1}{861}\sqrt{125610}e^{16} + \frac{1}{861}\sqrt{87690}e^{25} + \frac{1}{287}\sqrt{16590}e^{37}$	$(-\frac{24}{287}, \frac{12}{41}, -\frac{233}{861}, \frac{2}{3}, -\frac{48}{287}, \frac{60}{287}, \frac{341}{861}, -\frac{72}{287}, \frac{36}{287})$ $+ \frac{5}{861}\sqrt{45030}e^4 \otimes e_8$	{1234569, 1245679, 35678, 568}
941:287	$0, 0, 0, 0, 0, \frac{259}{2265}\sqrt{11}e^{12}, \frac{37}{2265}\sqrt{183}e^{34}, \frac{74}{2265}\sqrt{193}e^{15}, \frac{37}{2265}\sqrt{466}e^{16} + \frac{37}{755}\sqrt{41}e^{25} + \frac{37}{2265}\sqrt{806}e^{37}$	$(-\frac{148}{2265}, \frac{185}{453}, \frac{222}{755}, -\frac{703}{2265}, -\frac{296}{2265}, \frac{259}{755}, -\frac{37}{2265}, -\frac{148}{755}, \frac{629}{2265})$ $+ \frac{1739}{2265}e^2 \otimes e_8 + \frac{74}{2265}\sqrt{443}e^3 \otimes e_4$	{12357, 45789}
941:287	$0, 0, 0, 0, 0, \frac{10}{1713}\sqrt{151}e^{12}, \frac{1}{1713}\sqrt{862210}e^{34}, \frac{2}{1713}\sqrt{310305}e^{15}, \frac{2}{1713}\sqrt{133635}e^{16} + \frac{1}{1713}\sqrt{466590}e^{25} + \frac{2}{571}\sqrt{8305}e^{37}$	$(-\frac{45}{571}, \frac{214}{571}, \frac{350}{1713}, -\frac{328}{1713}, -\frac{90}{571}, \frac{169}{571}, \frac{22}{1713}, -\frac{135}{571}, \frac{124}{571})$ $+ \frac{70}{1713}\sqrt{453}e^3 \otimes e_8$	{1234569, 1357, 245789, 568}
941:287	$0, 0, 0, 0, 0, \frac{2}{3401}\sqrt{450470}e^{12}, \frac{4}{3401}\sqrt{111565}e^{34}, \frac{2}{3401}\sqrt{688335}e^{15}, \frac{2}{3401}\sqrt{475730}e^{16} + \frac{6}{3401}\sqrt{77885}e^{25} + \frac{20}{3401}\sqrt{27786}e^{37}$	$(\frac{321}{3401}, \frac{755}{3401}, \frac{1869}{3401}, -\frac{2341}{3401}, \frac{642}{3401}, \frac{1076}{3401}, -\frac{472}{3401}, \frac{963}{3401}, \frac{1397}{3401})$ $+ \frac{10}{3401}\sqrt{232813}e^3 \otimes e_4$	{12378, 146789, 2367, 479}
941:288	$0, 0, 0, 0, 0, \frac{2}{801}\sqrt{32338}e^{12}, \frac{2}{801}\sqrt{81719}e^{34}, \frac{8}{801}\sqrt{6555}e^{35}, \frac{1}{801}\sqrt{124982}e^{15} + \frac{19}{267}\sqrt{46}e^{26} + \frac{23}{801}\sqrt{114}e^{37}$	$(\frac{148}{801}, -\frac{1}{89}, -\frac{242}{801}, \frac{614}{801}, -\frac{2}{89}, \frac{139}{801}, \frac{124}{267}, -\frac{260}{801}, \frac{130}{801})$ $+ \frac{1}{801}\sqrt{1137074}e^4 \otimes e_8$	{12589, 15689, 23456, 345}
941:288	$0, 0, 0, 0, 0, \frac{15}{527}\sqrt{210}e^{12}, \frac{30}{527}\sqrt{21}e^{34}, \frac{30}{527}\sqrt{91}e^{35}, \frac{30}{527}\sqrt{3}e^{15} + \frac{15}{527}\sqrt{22}e^{26} + \frac{15}{527}\sqrt{58}e^{37}$	$(\frac{210}{527}, -\frac{60}{527}, \frac{105}{527}, -\frac{120}{527}, -\frac{120}{527}, \frac{150}{527}, -\frac{15}{527}, -\frac{15}{527}, \frac{90}{527})$ $+ \frac{15}{527}\sqrt{506}e^1 \otimes e_8 - \frac{30}{527}\sqrt{109}e^3 \otimes e_4$	{12359, 13569, 24568, 458}
941:288	$0, 0, 0, 0, 0, \frac{15}{527}\sqrt{210}e^{12}, \frac{30}{527}\sqrt{21}e^{34}, \frac{30}{527}\sqrt{91}e^{35}, \frac{30}{527}\sqrt{3}e^{15} + \frac{15}{527}\sqrt{22}e^{26} + \frac{15}{527}\sqrt{58}e^{37}$	$(\frac{210}{527}, -\frac{60}{527}, \frac{105}{527}, -\frac{120}{527}, -\frac{120}{527}, \frac{150}{527}, -\frac{15}{527}, -\frac{15}{527}, \frac{90}{527})$ $+ \frac{15}{527}\sqrt{506}e^1 \otimes e_8 + \frac{30}{527}\sqrt{109}e^3 \otimes e_4$	{12359, 13569, 24568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:288	$0, 0, 0, 0, 0, \frac{1}{389}\sqrt{38855}e^{12}, \frac{1}{389}\sqrt{15542}e^{34}, \frac{1}{389}\sqrt{101841}e^{35},$ $\frac{5}{389}\sqrt{2454}e^{15} + \frac{1}{389}\sqrt{8998}e^{26} + \frac{1}{389}\sqrt{89571}e^{37}$	$(\frac{95}{389}, \frac{9}{389}, \frac{174}{389}, -\frac{235}{389}, \frac{18}{389}, \frac{104}{389}, -\frac{61}{389}, \frac{192}{389}, \frac{113}{389})$ $+ \frac{1}{389}\sqrt{262987}e^3 \otimes e_4$	{12359, 13569, 24568, 458}
941:288	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{3}e^{12}, \frac{2}{17}\sqrt{7}e^{34}, \frac{2}{85}\sqrt{415}e^{35},$ $\frac{16}{85}\sqrt{5}e^{15} + \frac{2}{85}\sqrt{305}e^{26} + \frac{2}{85}\sqrt{170}e^{37}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, \frac{13}{85}, -\frac{2}{85}, \frac{8}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{3}{85})$ $- \frac{2}{85}\sqrt{155}e^4 \otimes e_9 + \frac{2}{85}\sqrt{535}e^2 \otimes e_8$	{1234579, 145689, 2356, 578}
941:288	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{3}e^{12}, \frac{2}{17}\sqrt{7}e^{34}, \frac{2}{85}\sqrt{415}e^{35},$ $\frac{16}{85}\sqrt{5}e^{15} + \frac{2}{85}\sqrt{305}e^{26} + \frac{2}{85}\sqrt{170}e^{37}$	$(\frac{13}{85}, -\frac{1}{17}, -\frac{1}{17}, \frac{13}{85}, -\frac{2}{85}, \frac{8}{85}, \frac{8}{85}, -\frac{3}{17}, \frac{3}{85})$ $+ \frac{2}{85}\sqrt{155}e^4 \otimes e_9 + \frac{2}{85}\sqrt{535}e^2 \otimes e_8$	{1234579, 145689, 2356, 578}
941:288	$0, 0, 0, 0, 0, \frac{3}{437}\sqrt{335}e^{12}, \frac{3}{437}\sqrt{134}e^{34}, \frac{3}{437}\sqrt{473}e^{35},$ $\frac{9}{437}\sqrt{38}e^{15} + \frac{3}{437}\sqrt{358}e^{26} + \frac{3}{437}\sqrt{69}e^{37}$	$(\frac{39}{437}, -\frac{15}{437}, \frac{6}{437}, -\frac{3}{437}, -\frac{30}{437}, \frac{24}{437}, \frac{3}{437}, -\frac{24}{437}, \frac{9}{437})$ $+ \frac{12}{437}\sqrt{37}e^2 \otimes e_8 + \frac{3}{437}\sqrt{211}e^3 \otimes e_4$	{145689, 2356}
941:288	$0, 0, 0, 0, 0, \frac{4}{1517}\sqrt{21385}e^{12}, \frac{1}{1517}\sqrt{117030}e^{34}, \frac{4}{1517}\sqrt{26790}e^{35},$ $\frac{1}{1517}\sqrt{313490}e^{15} + \frac{1}{1517}\sqrt{389630}e^{26} + \frac{1}{1517}\sqrt{142410}e^{37}$	$(\frac{104}{1517}, -\frac{40}{1517}, -\frac{195}{1517}, \frac{414}{1517}, -\frac{80}{1517}, \frac{64}{1517}, \frac{219}{1517}, -\frac{275}{1517}, \frac{24}{1517})$ $+ \frac{52}{1517}\sqrt{235}e^2 \otimes e_8$	{1234579, 145689, 2356, 578}
941:288	$0, 0, 0, 0, 0, \frac{4}{395}\sqrt{4886}e^{12}, \frac{1}{395}\sqrt{16054}e^{34}, \frac{4}{395}\sqrt{5933}e^{35},$ $\frac{1}{395}\sqrt{41182}e^{15} + \frac{1}{395}\sqrt{13262}e^{26} + \frac{7}{395}\sqrt{698}e^{37}$	$(\frac{224}{395}, -\frac{64}{395}, \frac{3}{395}, \frac{18}{395}, \frac{128}{395}, \frac{32}{395}, \frac{93}{395}, -\frac{25}{79}, \frac{96}{395})$ $+ \frac{4}{395}\sqrt{14309}e^1 \otimes e_8$	{1249, 1469, 2368, 38}
941:289	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{11}e^{12}, \frac{1}{12}\sqrt{77}e^{34}, \frac{11}{36}\sqrt{6}e^{15},$ $\frac{1}{36}\sqrt{33}e^{26} + \frac{1}{12}\sqrt{33}e^{35} + \frac{1}{36}\sqrt{33}e^{47}$	$(-\frac{1}{12}, \frac{5}{24}, \frac{7}{12}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{11}{24}, -\frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{36}\sqrt{1947}e^3 \otimes e_8$	{124678, 1268, 1478, 18, 2349, 2379, 3469, 3679}
941:289	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{11}e^{12}, \frac{1}{12}\sqrt{77}e^{34}, \frac{11}{36}\sqrt{6}e^{15},$ $\frac{1}{36}\sqrt{33}e^{26} + \frac{1}{12}\sqrt{33}e^{35} + \frac{1}{36}\sqrt{33}e^{47}$	$(-\frac{1}{12}, \frac{5}{24}, \frac{7}{12}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{11}{24}, -\frac{1}{3}, \frac{1}{3})$ $- \frac{1}{36}\sqrt{1947}e^3 \otimes e_8$	{124678, 1268, 1478, 18, 2349, 2379, 3469, 3679}
941:289	$0, 0, 0, 0, 0, \frac{80}{3379}\sqrt{114}e^{12}, \frac{40}{3379}\sqrt{1657}e^{34}, \frac{120}{3379}\sqrt{201}e^{15},$ $\frac{40}{3379}\sqrt{141}e^{26} + \frac{80}{3379}\sqrt{398}e^{35} + \frac{40}{3379}\sqrt{1610}e^{47}$	$(-\frac{912}{3379}, \frac{756}{3379}, \frac{376}{3379}, \frac{112}{3379}, \frac{224}{3379}, \frac{156}{3379}, \frac{488}{3379}, -\frac{688}{3379}, \frac{600}{3379})$ $+ \frac{40}{3379}\sqrt{2938}e^4 \otimes e_8$	{124567, 1457, 235789, 356789}
941:289	$0, 0, 0, 0, 0, \frac{8}{3507}\sqrt{57707}e^{12}, \frac{52}{3507}\sqrt{851}e^{34}, \frac{4}{3507}\sqrt{356109}e^{15},$ $\frac{92}{1169}\sqrt{91}e^{26} + \frac{4}{3507}\sqrt{250562}e^{35} + \frac{4}{3507}\sqrt{598}e^{47}$	$(-\frac{194}{501}, \frac{1286}{3507}, \frac{962}{3507}, \frac{6}{167}, \frac{12}{167}, -\frac{24}{1169}, \frac{1088}{3507}, -\frac{158}{501}, \frac{1214}{3507})$ $+ \frac{4}{3507}\sqrt{867698}e^2 \otimes e_8$	{146789, 1689, 2346, 2367}
941:297	$0, 0, 0, 0, 0, \frac{56}{3215}\sqrt{213}e^{12}, \frac{112}{3215}\sqrt{70}e^{34}, \frac{56}{3215}\sqrt{302}e^{13},$ $\frac{56}{3215}\sqrt{102}e^{16} + \frac{56}{643}\sqrt{35}e^{23} + \frac{56}{3215}\sqrt{253}e^{47}$	$(-\frac{56}{643}, \frac{728}{3215}, -\frac{112}{643}, \frac{364}{3215}, \frac{1736}{3215}, \frac{448}{3215}, -\frac{196}{3215}, -\frac{168}{643}, \frac{168}{3215})$ $+ \frac{56}{3215}\sqrt{1399}e^5 \otimes e_9 + \frac{56}{3215}\sqrt{1479}e^2 \otimes e_8$	{2469, 2679}
941:297	$0, 0, 0, 0, 0, \frac{100}{757}e^{12}, \frac{100}{757}e^{34}, \frac{50}{757}\sqrt{46}e^{13},$ $\frac{10}{757}\sqrt{655}e^{16} + \frac{10}{757}\sqrt{1190}e^{23} + \frac{40}{757}\sqrt{5}e^{47}$	$(-\frac{20}{757}, \frac{190}{757}, -\frac{40}{757}, \frac{95}{757}, -\frac{290}{757}, \frac{170}{757}, \frac{55}{757}, -\frac{60}{757}, \frac{150}{757})$ $+ \frac{10}{757}\sqrt{1745}e^2 \otimes e_8 + \frac{10}{757}\sqrt{1745}e^3 \otimes e_5$	{1458, 1578}
941:297	$0, 0, 0, 0, 0, \frac{6}{2561}\sqrt{5530}e^{12}, \frac{120}{2561}\sqrt{158}e^{34}, \frac{6}{2561}\sqrt{73786}e^{13},$ $\frac{6}{197}\sqrt{158}e^{16} + \frac{6}{2561}\sqrt{61067}e^{23} + \frac{36}{2561}\sqrt{2686}e^{47}$	$(-\frac{295}{2561}, \frac{1074}{2561}, -\frac{590}{2561}, \frac{537}{2561}, \frac{371}{2561}, \frac{779}{2561}, -\frac{53}{2561}, -\frac{885}{2561}, \frac{484}{2561})$ $+ \frac{6}{2561}\sqrt{173010}e^4 \otimes e_8$	{1258, 128, 24567, 2467}
941:297	$0, 0, 0, 0, 0, \frac{98}{4285}\sqrt{326}e^{12}, \frac{49}{4285}\sqrt{1618}e^{34}, \frac{98}{4285}\sqrt{181}e^{13},$ $\frac{49}{4285}\sqrt{458}e^{16} + \frac{49}{4285}\sqrt{282}e^{23} + \frac{98}{4285}\sqrt{503}e^{47}$	$(-\frac{49}{857}, \frac{1666}{4285}, -\frac{98}{857}, \frac{833}{4285}, -\frac{1568}{4285}, \frac{1421}{4285}, \frac{343}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+ \frac{49}{4285}\sqrt{3274}e^2 \otimes e_8 + \frac{98}{4285}\sqrt{1054}e^4 \otimes e_5$	{2467, 256}
941:297	$0, 0, 0, 0, 0, \frac{148}{2153}\sqrt{6}e^{12}, \frac{37}{6459}\sqrt{3062}e^{34}, \frac{74}{6459}\sqrt{1135}e^{13},$ $\frac{74}{6459}\sqrt{523}e^{16} + \frac{74}{6459}\sqrt{202}e^{23} + \frac{74}{6459}\sqrt{921}e^{47}$	$(-\frac{74}{2153}, \frac{1406}{6459}, -\frac{148}{2153}, \frac{703}{6459}, \frac{1813}{6459}, \frac{1184}{6459}, \frac{259}{6459}, -\frac{222}{2153}, \frac{962}{6459})$ $+ \frac{37}{6459}\sqrt{4766}e^3 \otimes e_5 + \frac{74}{6459}\sqrt{1753}e^4 \otimes e_8$	{123469, 23789}
941:297	$0, 0, 0, 0, 0, \frac{3}{1249}\sqrt{107210}e^{12}, \frac{12}{1249}\sqrt{151}e^{34}, \frac{12}{1249}\sqrt{3473}e^{13},$ $\frac{3}{1249}\sqrt{8758}e^{16} + \frac{12}{1249}\sqrt{6946}e^{23} + \frac{9}{1249}\sqrt{2114}e^{47}$	$(\frac{8}{1249}, \frac{526}{1249}, \frac{16}{1249}, \frac{263}{1249}, -\frac{833}{1249}, \frac{534}{1249}, \frac{279}{1249}, \frac{24}{1249}, \frac{542}{1249})$ $+ \frac{3}{1249}\sqrt{314382}e^2 \otimes e_5$	{12479, 129, 246789, 2689}
941:297	$0, 0, 0, 0, 0, \frac{9}{1243}\sqrt{5010}e^{12}, \frac{18}{1243}\sqrt{1365}e^{34}, \frac{90}{1243}\sqrt{105}e^{13},$ $\frac{117}{1243}\sqrt{30}e^{16} + \frac{9}{1243}\sqrt{10410}e^{23} + \frac{54}{1243}\sqrt{5}e^{47}$	$(\frac{182}{1243}, \frac{16}{1243}, \frac{364}{1243}, \frac{8}{1243}, -\frac{851}{1243}, \frac{18}{113}, \frac{372}{1243}, \frac{546}{1243}, \frac{380}{1243})$ $+ \frac{27}{1243}\sqrt{3490}e^3 \otimes e_5$	{14578, 158, 4567, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941: 297	$0, 0, 0, 0, 0, \frac{20}{101}\sqrt{5}e^{12}, \frac{20}{101}\sqrt{5}e^{34}, \frac{10}{101}\sqrt{110}e^{13},$ $\frac{5}{101}\sqrt{115}e^{16} + \frac{5}{101}\sqrt{35}e^{23} + \frac{5}{101}\sqrt{105}e^{47}$	$(-\frac{8}{101}, \frac{28}{101}, -\frac{16}{101}, \frac{14}{101}, 1, \frac{20}{101}, -\frac{2}{101}, -\frac{24}{101}, \frac{12}{101})$ $+ \frac{65}{101}\sqrt{5}e^5 \otimes e_8$	{13457, 135, 34678, 368}
941: 297	$0, 0, 0, 0, 0, \frac{2}{431}\sqrt{2185}e^{12}, \frac{2}{431}\sqrt{2185}e^{34}, \frac{46}{431}\sqrt{19}e^{13},$ $\frac{2}{431}\sqrt{22287}e^{16} + \frac{46}{431}\sqrt{38}e^{23} + \frac{1}{431}\sqrt{69046}e^{47}$	$(\frac{10}{431}, -\frac{26}{431}, \frac{20}{431}, -\frac{13}{431}, 1, -\frac{16}{431}, \frac{7}{431}, \frac{30}{431}, -\frac{6}{431})$ $+ \frac{1}{431}\sqrt{310270}e^5 \otimes e_9$	{14567, 156, 4578, 58}
941: 297	$0, 0, 0, 0, 0, \frac{4}{269}\sqrt{870}e^{12}, \frac{16}{269}\sqrt{6}e^{34}, \frac{12}{269}\sqrt{78}e^{13},$ $\frac{48}{269}\sqrt{3}e^{16} + \frac{8}{269}\sqrt{21}e^{23} + \frac{4}{269}\sqrt{6}e^{47}$	$(-\frac{8}{269}, \frac{72}{269}, -\frac{16}{269}, \frac{36}{269}, -\frac{104}{269}, \frac{64}{269}, \frac{20}{269}, -\frac{24}{269}, \frac{56}{269})$ $+ \frac{4}{269}\sqrt{1578}e^1 \otimes e_5 + \frac{8}{269}\sqrt{330}e^2 \otimes e_8$	{123479, 1239}
941: 297	$0, 0, 0, 0, 0, \frac{430}{4987}e^{12}, \frac{86}{4987}\sqrt{505}e^{34}, \frac{86}{4987}\sqrt{509}e^{13},$ $\frac{86}{4987}\sqrt{33}e^{16} + \frac{86}{4987}\sqrt{298}e^{23} + \frac{43}{4987}\sqrt{3766}e^{47}$	$(-\frac{430}{4987}, \frac{1118}{4987}, -\frac{860}{4987}, \frac{559}{4987}, \frac{2107}{4987}, \frac{688}{4987}, -\frac{301}{4987}, -\frac{1290}{4987}, \frac{258}{4987})$ $+ \frac{1032}{4987}\sqrt{10}e^4 \otimes e_8 + \frac{43}{4987}\sqrt{3070}e^5 \otimes e_9$	{1258, 24567}
941: 297	$0, 0, 0, 0, 0, \frac{30}{2621}\sqrt{2094}e^{12}, \frac{84}{2621}\sqrt{698}e^{34}, \frac{2}{2621}\sqrt{190554}e^{13},$ $\frac{4}{2621}\sqrt{23034}e^{16} + \frac{10}{2621}\sqrt{30363}e^{23} + \frac{2}{2621}\sqrt{126338}e^{47}$	$(\frac{87}{2621}, \frac{718}{2621}, \frac{174}{2621}, \frac{359}{2621}, -\frac{1735}{2621}, \frac{805}{2621}, \frac{533}{2621}, \frac{261}{2621}, \frac{892}{2621})$ $+ \frac{66}{2621}\sqrt{2094}e^4 \otimes e_5$	{123489, 1235789, 23469, 235679}
941: 297	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{13}e^{12}, \frac{8}{25}e^{34}, \frac{2}{25}\sqrt{21}e^{13},$ $\frac{2}{25}\sqrt{6}e^{16} + \frac{2}{25}\sqrt{23}e^{23} + \frac{2}{25}\sqrt{21}e^{47}$	$(-\frac{1}{25}, \frac{6}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{7}{25}, \frac{1}{25}, \frac{1}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{2}{25}\sqrt{29}e^1 \otimes e_5 + \frac{2}{25}\sqrt{38}e^4 \otimes e_8$	{12349, 2356789}
941: 297	$0, 0, 0, 0, 0, \frac{18}{1243}\sqrt{1365}e^{12}, \frac{9}{1243}\sqrt{5010}e^{34}, \frac{90}{1243}\sqrt{105}e^{13},$ $\frac{117}{1243}\sqrt{30}e^{16} + \frac{9}{1243}\sqrt{10410}e^{23} + \frac{54}{1243}\sqrt{5}e^{47}$	$(-\frac{167}{1243}, \frac{714}{1243}, -\frac{334}{1243}, \frac{357}{1243}, \frac{196}{1243}, \frac{547}{1243}, \frac{23}{1243}, -\frac{501}{1243}, \frac{380}{1243})$ $+ \frac{27}{1243}\sqrt{3490}e^2 \otimes e_8$	{123, 123457, 12347, 1235}
941: 297	$0, 0, 0, 0, 0, \frac{15}{82}\sqrt{70}e^{12}, \frac{3}{82}\sqrt{119}e^{34}, \frac{3}{164}\sqrt{658}e^{13},$ $\frac{3}{82}\sqrt{427}e^{16} + \frac{3}{82}\sqrt{329}e^{23} + \frac{3}{164}\sqrt{14}e^{47}$	$(\frac{17}{164}, \frac{3}{41}, \frac{17}{82}, \frac{3}{82}, -\frac{109}{164}, \frac{29}{164}, \frac{10}{41}, \frac{51}{164}, \frac{23}{82})$ $+ \frac{21}{164}\sqrt{78}e^1 \otimes e_5$	{12349, 12379, 2345689, 2356789}
941: 297	$0, 0, 0, 0, 0, \frac{41}{3391}\sqrt{570}e^{12}, \frac{492}{3391}\sqrt{11}e^{34}, \frac{164}{3391}\sqrt{103}e^{13},$ $\frac{41}{3391}\sqrt{698}e^{16} + \frac{164}{3391}\sqrt{66}e^{23} + \frac{533}{3391}\sqrt{14}e^{47}$	$(-\frac{328}{3391}, \frac{1394}{3391}, -\frac{656}{3391}, \frac{697}{3391}, -\frac{287}{3391}, \frac{1066}{3391}, \frac{41}{3391}, -\frac{984}{3391}, \frac{738}{3391})$ $+ \frac{328}{3391}\sqrt{70}e^4 \otimes e_8 + \frac{41}{3391}\sqrt{1438}e^2 \otimes e_5$	{128, 2467}
941: 298	$0, 0, 0, 0, 0, \frac{76}{1255}\sqrt{66}e^{12}, \frac{19}{251}\sqrt{22}e^{34}, \frac{836}{1255}e^{13},$ $\frac{57}{1255}\sqrt{82}e^{16} + \frac{304}{1255}\sqrt{7}e^{24} + \frac{57}{1255}\sqrt{106}e^{37}$	$(\frac{209}{1255}, -\frac{304}{1255}, -\frac{152}{1255}, \frac{418}{1255}, -\frac{152}{1255}, -\frac{19}{251}, \frac{266}{1255}, \frac{57}{1255}, \frac{114}{1255})$ $+ \frac{19}{251}\sqrt{78}e^4 \otimes e_8 + \frac{228}{1255}\sqrt{3}e^1 \otimes e_5$	{178, 3568}
941: 298	$0, 0, 0, 0, 0, \frac{28}{485}\sqrt{209}e^{12}, \frac{28}{97}\sqrt{3}e^{34}, \frac{56}{485}e^{13},$ $\frac{84}{485}\sqrt{23}e^{16} + \frac{28}{485}\sqrt{138}e^{24} + \frac{28}{485}\sqrt{6}e^{37}$	$(\frac{73}{485}, \frac{12}{485}, \frac{6}{485}, \frac{146}{485}, -\frac{319}{485}, \frac{17}{485}, \frac{152}{485}, \frac{79}{485}, \frac{158}{485})$ $+ \frac{28}{485}\sqrt{402}e^1 \otimes e_5$	{123489, 12479, 234569, 2456789}
941: 298	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1798}e^{12}, \frac{2}{97}\sqrt{930}e^{34}, \frac{2}{97}\sqrt{1426}e^{13},$ $\frac{3}{97}\sqrt{310}e^{16} + \frac{2}{97}\sqrt{1426}e^{24} + \frac{3}{97}\sqrt{310}e^{37}$	$(-\frac{14}{97}, \frac{34}{97}, \frac{17}{97}, -\frac{28}{97}, \frac{4}{97}, \frac{20}{97}, -\frac{11}{97}, \frac{3}{97}, \frac{6}{97})$ $+ \frac{31}{97}\sqrt{6}e^2 \otimes e_8$	{1578, 178, 3568, 368}
941: 298	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{55}e^{12}, \frac{1}{44}\sqrt{462}e^{34}, \frac{1}{44}\sqrt{682}e^{13},$ $\frac{3}{44}\sqrt{33}e^{16} + \frac{1}{22}\sqrt{187}e^{24} + \frac{3}{44}\sqrt{33}e^{37}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+ \frac{1}{4}\sqrt{6}e^2 \otimes e_8 + \frac{3}{44}\sqrt{22}e^5 \otimes e_9$	{1578, 3568}
941: 298	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{22}e^{12}, \frac{1}{11}\sqrt{22}e^{34}, \frac{2}{11}\sqrt{11}e^{13},$ $\frac{1}{11}\sqrt{66}e^{16} + \frac{1}{11}\sqrt{22}e^{24} + \frac{1}{11}\sqrt{66}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{3}{11}\sqrt{22}e^5 \otimes e_9$	{135678, 156, 58}
941: 298	$0, 0, 0, 0, 0, \frac{2}{5}\sqrt{5}e^{12}, \frac{2}{5}\sqrt{5}e^{34}, \frac{2}{5}\sqrt{10}e^{13},$ $\frac{1}{5}\sqrt{15}e^{16} + e^{24} + \frac{1}{5}\sqrt{15}e^{37}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{3}{5}\sqrt{5}e^5 \otimes e_8$	{135, 178, 567}
941: 298	$0, 0, 0, 0, 0, \frac{1}{58}\sqrt{1703}e^{12}, \frac{1}{58}\sqrt{393}e^{34}, \frac{1}{116}\sqrt{786}e^{13},$ $\frac{3}{116}\sqrt{131}e^{16} + \frac{1}{116}\sqrt{9170}e^{24} + \frac{3}{116}\sqrt{131}e^{37}$	$(-\frac{9}{232}, \frac{55}{116}, \frac{55}{232}, -\frac{9}{116}, -\frac{19}{29}, \frac{101}{232}, \frac{37}{232}, \frac{23}{116}, \frac{23}{58})$ $+ \frac{2}{29}\sqrt{393}e^2 \otimes e_5$	{1345679, 145689, 345789, 459}
941: 298	$0, 0, 0, 0, 0, \frac{10}{697}\sqrt{570}e^{12}, \frac{10}{697}\sqrt{370}e^{34}, \frac{100}{697}\sqrt{10}e^{13},$ $\frac{30}{697}\sqrt{58}e^{16} + \frac{10}{697}\sqrt{1126}e^{24} + \frac{30}{697}\sqrt{58}e^{37}$	$(\frac{65}{697}, -\frac{70}{697}, -\frac{35}{697}, \frac{130}{697}, -\frac{10}{41}, -\frac{5}{697}, \frac{95}{697}, \frac{30}{697}, \frac{60}{697})$ $+ \frac{10}{697}\sqrt{978}e^4 \otimes e_8 + \frac{30}{697}\sqrt{42}e^2 \otimes e_5$	{1578, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:298	$0, 0, 0, 0, 0, \frac{19}{2059}\sqrt{334}e^{12}, \frac{38}{2059}\sqrt{411}e^{34}, \frac{38}{2059}\sqrt{689}e^{13},$ $\frac{114}{2059}\sqrt{22}e^{16} + \frac{38}{2059}\sqrt{591}e^{24} + \frac{38}{2059}\sqrt{345}e^{37}$	$(-\frac{133}{2059}, \frac{456}{2059}, \frac{228}{2059}, -\frac{266}{2059}, -\frac{494}{2059}, \frac{323}{2059}, -\frac{38}{2059}, \frac{95}{2059}, \frac{190}{2059})$ $+ \frac{171}{2059}\sqrt{34}e^2 \otimes e_8 + \frac{266}{2059}\sqrt{6}e^1 \otimes e_5$	{178, 3568}
941:299	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{2}e^{12}, \frac{3}{17}\sqrt{2}e^{34}, \frac{2}{17}\sqrt{23}e^{13},$ $\frac{1}{17}\sqrt{35}e^{15} + \frac{3}{17}\sqrt{3}e^{26} + \frac{1}{17}\sqrt{19}e^{37}$	$(\frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{8}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, 0, 0)$ $+ \frac{1}{17}\sqrt{119}e^4 \otimes e_8 + \frac{3}{17}\sqrt{14}e^1 \otimes e_5$	{24567, 457}
941:299	$0, 0, 0, 0, 0, \frac{62}{4293}\sqrt{62}e^{12}, \frac{124}{4293}\sqrt{10}e^{34}, \frac{434}{4293}\sqrt{30}e^{13},$ $\frac{62}{4293}\sqrt{779}e^{15} + \frac{62}{4293}\sqrt{235}e^{26} + \frac{248}{4293}\sqrt{29}e^{37}$	$(\frac{124}{477}, -\frac{403}{4293}, \frac{248}{4293}, -\frac{1178}{4293}, -\frac{806}{4293}, \frac{713}{4293}, -\frac{434}{4293}, \frac{620}{4293}, \frac{310}{4293})$ $+ \frac{124}{4293}\sqrt{482}e^3 \otimes e_4 + \frac{310}{4293}\sqrt{79}e^1 \otimes e_5$	{2456, 45}
941:299	$0, 0, 0, 0, 0, \frac{46}{9261}\sqrt{1337}e^{12}, \frac{23}{9261}\sqrt{2186}e^{34}, \frac{23}{9261}\sqrt{7730}e^{13},$ $\frac{46}{9261}\sqrt{1313}e^{15} + \frac{46}{9261}\sqrt{1607}e^{26} + \frac{23}{9261}\sqrt{2578}e^{37}$	$(\frac{23}{1029}, -\frac{23}{1323}, -\frac{299}{3087}, \frac{1679}{9261}, -\frac{46}{1323}, \frac{46}{9261}, \frac{782}{9261}, -\frac{230}{3087}, -\frac{115}{9261})$ $+ \frac{23}{9261}\sqrt{10282}e^2 \otimes e_8 + \frac{46}{9261}\sqrt{1767}e^1 \otimes e_5$	{2567, 358}
941:299	$0, 0, 0, 0, 0, \frac{2}{1417}\sqrt{1543}e^{12}, \frac{1}{1417}\sqrt{200590}e^{34}, \frac{2}{1417}\sqrt{331745}e^{13},$ $\frac{1}{1417}\sqrt{620286}e^{15} + \frac{1}{1417}\sqrt{46290}e^{26} + \frac{1}{1417}\sqrt{1206626}e^{37}$	$(\frac{4}{1417}, \frac{2}{13}, \frac{661}{1417}, -\frac{882}{1417}, \frac{4}{13}, \frac{222}{1417}, -\frac{17}{109}, \frac{665}{1417}, \frac{440}{1417})$ $+ \frac{2}{1417}\sqrt{911913}e^3 \otimes e_4$	{12359, 13569, 2456, 45}
941:299	$0, 0, 0, 0, 0, \frac{344}{6831}\sqrt{38}e^{12}, \frac{43}{6831}\sqrt{1430}e^{34}, \frac{86}{6831}\sqrt{1370}e^{13},$ $\frac{301}{6831}\sqrt{74}e^{15} + \frac{43}{6831}\sqrt{4310}e^{26} + \frac{43}{6831}\sqrt{154}e^{37}$	$(-\frac{172}{759}, \frac{1204}{6831}, \frac{301}{2277}, -\frac{86}{621}, \frac{2408}{6831}, -\frac{344}{6831}, -\frac{43}{6831}, -\frac{215}{6831}, \frac{860}{6831})$ $+ \frac{172}{6831}\sqrt{282}e^3 \otimes e_4 + \frac{86}{6831}\sqrt{1990}e^2 \otimes e_8$	{145689, 358}
941:299	$0, 0, 0, 0, 0, \frac{2}{2873}\sqrt{1228326}e^{12}, \frac{4}{2873}\sqrt{57342}e^{34}, \frac{6}{2873}\sqrt{157942}e^{13},$ $\frac{2}{2873}\sqrt{771099}e^{15} + \frac{2}{2873}\sqrt{553803}e^{26} + \frac{4}{2873}\sqrt{39234}e^{37}$	$(\frac{1628}{2873}, -\frac{695}{2873}, -\frac{200}{2873}, \frac{638}{2873}, -\frac{1390}{2873}, \frac{933}{2873}, \frac{438}{2873}, \frac{84}{169}, \frac{14}{169})$ $+ \frac{2}{2873}\sqrt{3601983}e^1 \otimes e_5$	{23568, 2567, 358, 57}
941:299	$0, 0, 0, 0, 0, \frac{8}{1413}\sqrt{9815}e^{12}, \frac{1}{1413}\sqrt{206870}e^{34}, \frac{2}{1413}\sqrt{224990}e^{13},$ $\frac{1}{1413}\sqrt{650810}e^{15} + \frac{1}{1413}\sqrt{1040390}e^{26} + \frac{1}{1413}\sqrt{336730}e^{37}$	$(-\frac{44}{157}, \frac{308}{1413}, -\frac{17}{471}, \frac{322}{1413}, \frac{616}{1413}, -\frac{88}{1413}, \frac{271}{1413}, -\frac{149}{471}, \frac{220}{1413})$ $+ \frac{2}{1413}\sqrt{463570}e^2 \otimes e_8$	{1234579, 145689, 2567, 358}
941:299	$0, 0, 0, 0, 0, \frac{16}{1349}\sqrt{2726}e^{12}, \frac{1}{1349}\sqrt{286230}e^{34}, \frac{12}{1349}\sqrt{9541}e^{13},$ $\frac{1}{1349}\sqrt{1234878}e^{15} + \frac{1}{1349}\sqrt{8178}e^{26} + \frac{1}{1349}\sqrt{695130}e^{37}$	$(-\frac{512}{1349}, \frac{448}{1349}, \frac{45}{1349}, \frac{294}{1349}, \frac{896}{1349}, -\frac{64}{1349}, \frac{339}{1349}, -\frac{467}{1349}, \frac{384}{1349})$ $+ \frac{116}{1349}\sqrt{235}e^5 \otimes e_8$	{124689, 1489, 238, 368}
941:299	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{10}e^{12}, \frac{2}{27}\sqrt{95}e^{34}, \frac{4}{27}\sqrt{30}e^{13},$ $\frac{1}{27}\sqrt{70}e^{15} + \frac{5}{27}\sqrt{6}e^{26} + \frac{1}{9}\sqrt{10}e^{37}$	$(-\frac{4}{81}, \frac{1}{9}, -\frac{8}{27}, \frac{62}{81}, \frac{2}{9}, \frac{5}{81}, \frac{38}{81}, -\frac{28}{81}, \frac{14}{81})$ $+ \frac{1}{27}\sqrt{1330}e^4 \otimes e_8$	{12346, 134, 23789, 36789}
941:300	$0, 0, 0, 0, 0, \frac{17}{588}\sqrt{1346}e^{12}, \frac{1}{588}\sqrt{117102}e^{34}, \frac{1}{294}\sqrt{51821}e^{13},$ $\frac{1}{588}\sqrt{129889}e^{16} + \frac{5}{588}\sqrt{6730}e^{25} + \frac{1}{588}\sqrt{129889}e^{37}$	$(-\frac{83}{392}, \frac{106}{147}, \frac{155}{1176}, \frac{5}{147}, -\frac{83}{196}, \frac{599}{1176}, \frac{65}{392}, -\frac{47}{588}, \frac{25}{84})$ $+ \frac{1}{588}\sqrt{647426}e^2 \otimes e_5$	{135678, 156, 357, 58}
941:300	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{26}e^{12}, \frac{3}{19}\sqrt{6}e^{34}, \frac{2}{19}\sqrt{42}e^{13},$ $\frac{1}{19}\sqrt{78}e^{16} + \frac{5}{19}\sqrt{6}e^{25} + \frac{1}{19}\sqrt{78}e^{37}$	$(\frac{2}{19}, -\frac{4}{19}, -\frac{3}{19}, \frac{6}{19}, \frac{4}{19}, -\frac{2}{19}, \frac{3}{19}, -\frac{1}{19}, 0)$ $+ \frac{2}{19}\sqrt{46}e^5 \otimes e_8$	{124689, 178, 234789, 368}
941:300	$0, 0, 0, 0, 0, \frac{2}{1121}\sqrt{55522}e^{12}, \frac{1}{1121}\sqrt{176222}e^{34}, \frac{6}{1121}\sqrt{26554}e^{13},$ $\frac{17}{1121}\sqrt{1562}e^{16} + \frac{1}{1121}\sqrt{137598}e^{25} + \frac{1}{1121}\sqrt{687990}e^{37}$	$(\frac{60}{1121}, \frac{212}{1121}, \frac{27}{59}, -\frac{694}{1121}, \frac{120}{1121}, \frac{272}{1121}, -\frac{181}{1121}, \frac{573}{1121}, \frac{332}{1121})$ $+ \frac{4}{1121}\sqrt{142426}e^3 \otimes e_4$	{12369, 148, 2389, 46}
941:300	$0, 0, 0, 0, 0, \frac{59}{5293}\sqrt{1958}e^{12}, \frac{118}{5293}\sqrt{43}e^{34}, \frac{413}{5293}\sqrt{14}e^{13},$ $\frac{59}{5293}\sqrt{262}e^{16} + \frac{59}{5293}\sqrt{898}e^{25} + \frac{590}{5293}\sqrt{22}e^{37}$	$(-\frac{590}{5293}, \frac{2301}{5293}, \frac{1534}{5293}, -\frac{1947}{5293}, -\frac{1180}{5293}, \frac{1711}{5293}, -\frac{413}{5293}, \frac{944}{5293}, \frac{1121}{5293})$ $+ \frac{118}{5293}\sqrt{1115}e^2 \otimes e_5 + \frac{118}{5293}\sqrt{1231}e^3 \otimes e_4$	{1237, 23678}
941:300	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{314}e^{12}, \frac{1}{144}\sqrt{9734}e^{34}, \frac{1}{144}\sqrt{16014}e^{13},$ $\frac{1}{72}\sqrt{942}e^{16} + \frac{1}{144}\sqrt{6751}e^{25} + \frac{1}{72}\sqrt{942}e^{37}$	$(\frac{1}{96}, \frac{19}{144}, -\frac{91}{288}, \frac{113}{144}, \frac{1}{48}, \frac{41}{288}, \frac{15}{32}, -\frac{11}{36}, \frac{11}{72})$ $+ \frac{1}{144}\sqrt{37523}e^4 \otimes e_8$	{12689, 134, 23789, 467}
941:300	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{5}e^{16} + \frac{1}{2}\sqrt{2}e^{25} + \frac{1}{4}\sqrt{5}e^{37},$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{4}\sqrt{10}e^5 \otimes e_8 + \frac{1}{4}\sqrt{2}e^4 \otimes e_9$	{124689, 178, 234789, 368}
941:300	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{5}e^{16} + \frac{1}{2}\sqrt{2}e^{25} + \frac{1}{4}\sqrt{5}e^{37},$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{4}\sqrt{10}e^5 \otimes e_8 - \frac{1}{4}\sqrt{2}e^4 \otimes e_9$	{124689, 178, 234789, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:300	$0, 0, 0, 0, 0, \frac{12}{955}\sqrt{265}e^{12}, \frac{3}{955}\sqrt{2390}e^{34}, \frac{12}{955}\sqrt{455}e^{13},$ $\frac{3}{955}\sqrt{3530}e^{16} + \frac{3}{191}\sqrt{222}e^{25} + \frac{3}{955}\sqrt{2130}e^{37}$	$(\frac{12}{191}, -\frac{24}{191}, \frac{3}{191}, -\frac{6}{191}, \frac{24}{191}, -\frac{12}{191}, -\frac{3}{191}, \frac{15}{191}, 0)$ $+ \frac{12}{191}\sqrt{7}e^3 \otimes e_4 + \frac{12}{955}\sqrt{415}e^5 \otimes e_8$	{124689, 368}
941:300	$0, 0, 0, 0, 0, \frac{5}{111}\sqrt{114}e^{12}, \frac{5}{111}\sqrt{114}e^{34}, \frac{5}{111}\sqrt{42}e^{13},$ $\frac{5}{111}\sqrt{15}e^{16} + \frac{5}{111}\sqrt{21}e^{25} + \frac{5}{111}\sqrt{15}e^{37}$	$(-\frac{5}{37}, \frac{15}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, -\frac{10}{37}, \frac{5}{37})$ $+ \frac{5}{111}\sqrt{282}e^2 \otimes e_5 + \frac{5}{111}\sqrt{303}e^4 \otimes e_8$	{1568, 3578}
941:300	$0, 0, 0, 0, 0, \frac{44}{367}\sqrt{3}e^{12}, \frac{11}{367}\sqrt{102}e^{34}, \frac{66}{367}\sqrt{10}e^{13},$ $\frac{11}{367}\sqrt{170}e^{16} + \frac{11}{367}\sqrt{230}e^{25} + \frac{11}{367}\sqrt{26}e^{37}$	$(-\frac{44}{367}, \frac{132}{367}, \frac{55}{367}, -\frac{66}{367}, -\frac{88}{367}, \frac{88}{367}, -\frac{11}{367}, \frac{11}{367}, \frac{44}{367})$ $+ \frac{132}{367}\sqrt{2}e^3 \otimes e_4 + \frac{154}{367}\sqrt{2}e^2 \otimes e_8$	{249, 368}
941:301	$0, 0, 0, 0, 0, \frac{14}{165}\sqrt{85}e^{12}, \frac{4}{165}\sqrt{170}e^{34}, \frac{2}{165}\sqrt{4505}e^{13},$ $\frac{2}{33}\sqrt{119}e^{15} + \frac{8}{165}\sqrt{85}e^{26} + \frac{8}{165}\sqrt{85}e^{47}$	$(\frac{98}{165}, -\frac{12}{55}, -\frac{16}{165}, \frac{7}{55}, -\frac{24}{55}, \frac{62}{165}, \frac{1}{33}, \frac{82}{165}, \frac{26}{165})$ $+ \frac{68}{165}\sqrt{10}e^1 \otimes e_5$	{2345678, 23568, 34578, 358}
941:301	$0, 0, 0, 0, 0, \frac{62}{3281}\sqrt{1061}e^{12}, \frac{124}{3281}\sqrt{58}e^{34}, \frac{62}{3281}\sqrt{1177}e^{13},$ $\frac{62}{3281}\sqrt{1079}e^{15} + \frac{744}{3281}\sqrt{10}e^{26} + \frac{124}{3281}\sqrt{10}e^{47}$	$(-\frac{678}{3281}, \frac{780}{3281}, -\frac{464}{3281}, \frac{673}{3281}, \frac{1560}{3281}, \frac{6}{193}, \frac{209}{3281}, -\frac{1142}{3281}, \frac{882}{3281})$ $+ \frac{1240}{3281}\sqrt{7}e^2 \otimes e_8$	{145689, 156789, 34578, 358}
941:301	$0, 0, 0, 0, 0, \frac{2}{3357}\sqrt{42805}e^{12}, \frac{32}{3357}\sqrt{3669}e^{34}, \frac{2}{373}\sqrt{15899}e^{13},$ $\frac{22}{3357}\sqrt{6115}e^{15} + \frac{2}{3357}\sqrt{74603}e^{26} + \frac{2}{1119}\sqrt{182227}e^{47}$	$(\frac{70}{3357}, \frac{193}{1119}, -\frac{1268}{3357}, \frac{416}{1119}, \frac{386}{3357}, \frac{649}{1119}, -\frac{20}{3357}, -\frac{1198}{3357}, \frac{1228}{3357})$ $+ \frac{4}{3357}\sqrt{857323}e^4 \otimes e_8$	{128, 168, 236789, 3789}
941:301	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{106}e^{12}, \frac{2}{21}\sqrt{2}e^{34}, \frac{1}{42}\sqrt{122}e^{13},$ $\frac{1}{21}\sqrt{26}e^{15} + \frac{5}{21}e^{26} + \frac{1}{42}\sqrt{10}e^{47}$	$(\frac{2}{21}, 0, -\frac{4}{21}, \frac{1}{7}, 0, \frac{2}{21}, -\frac{1}{21}, -\frac{2}{21}, \frac{2}{21})$ $+ \frac{1}{42}\sqrt{130}e^1 \otimes e_5 + \frac{1}{7}\sqrt{5}e^2 \otimes e_8$	{34578, 358}
941:301	$0, 0, 0, 0, 0, \frac{27}{253}\sqrt{7}e^{12}, \frac{3}{253}\sqrt{426}e^{34}, \frac{3}{253}\sqrt{1509}e^{13},$ $\frac{3}{253}\sqrt{966}e^{15} + \frac{18}{253}\sqrt{2}e^{26} + \frac{3}{253}\sqrt{1227}e^{47}$	$(\frac{63}{253}, -\frac{9}{253}, -\frac{81}{253}, \frac{63}{253}, -\frac{18}{253}, \frac{54}{253}, -\frac{18}{253}, -\frac{18}{253}, \frac{45}{253})$ $+ \frac{3}{253}\sqrt{1767}e^1 \otimes e_5 + \frac{3}{253}\sqrt{2310}e^4 \otimes e_8$	{24567, 457}
941:302	$0, 0, 0, 0, 0, \frac{4}{2777}\sqrt{512430}e^{12}, \frac{2}{2777}\sqrt{552102}e^{34}, \frac{6}{2777}\sqrt{91466}e^{13},$ $\frac{4}{2777}\sqrt{175218}e^{16} + \frac{2}{2777}\sqrt{735585}e^{25} + \frac{10}{2777}\sqrt{11571}e^{47}$	$(-\frac{662}{2777}, \frac{1982}{2777}, \frac{668}{2777}, -\frac{5}{2777}, -\frac{1324}{2777}, \frac{1320}{2777}, \frac{663}{2777}, \frac{6}{2777}, \frac{658}{2777})$ $+ \frac{2}{2777}\sqrt{3757269}e^2 \otimes e_5$	{14567, 156, 4578, 58}
941:302	$0, 0, 0, 0, 0, \frac{2}{1407}\sqrt{47611}e^{12}, \frac{1}{1407}\sqrt{617930}e^{34}, \frac{2}{1407}\sqrt{249198}e^{13},$ $\frac{4}{1407}\sqrt{35455}e^{16} + \frac{1}{1407}\sqrt{26338}e^{25} + \frac{2}{469}\sqrt{31403}e^{47}$	$(\frac{5}{67}, \frac{304}{1407}, -\frac{82}{201}, \frac{544}{1407}, \frac{10}{67}, \frac{409}{1407}, -\frac{10}{469}, -\frac{1}{3}, \frac{514}{1407})$ $+ \frac{8}{1407}\sqrt{37481}e^4 \otimes e_8$	{123469, 18, 23789, 467}
941:302	$0, 0, 0, 0, 0, \frac{55}{5869}\sqrt{1302}e^{12}, \frac{330}{5869}\sqrt{57}e^{34}, \frac{55}{5869}\sqrt{1906}e^{13},$ $\frac{55}{5869}\sqrt{1010}e^{16} + \frac{110}{5869}\sqrt{177}e^{25} + \frac{110}{5869}\sqrt{815}e^{47}$	$(-\frac{385}{5869}, \frac{2255}{5869}, -\frac{1265}{5869}, \frac{1375}{5869}, -\frac{770}{5869}, \frac{1870}{5869}, \frac{110}{5869}, -\frac{1650}{5869}, \frac{1485}{5869})$ $+ \frac{110}{5869}\sqrt{919}e^2 \otimes e_5 + \frac{55}{5869}\sqrt{6634}e^4 \otimes e_8$	{128, 2467}
941:302	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{74}e^{12}, \frac{2}{65}\sqrt{222}e^{34}, \frac{65}{65}\sqrt{777}e^{13},$ $\frac{4}{65}\sqrt{111}e^{16} + \frac{1}{65}\sqrt{2886}e^{25} + \frac{1}{65}\sqrt{222}e^{47}$	$(\frac{1}{5}, -\frac{8}{65}, -\frac{24}{65}, \frac{21}{65}, \frac{2}{5}, \frac{1}{13}, -\frac{3}{65}, -\frac{11}{65}, \frac{18}{65})$ $+ \frac{1}{65}\sqrt{4366}e^5 \otimes e_8$	{148, 178, 234789, 2389}
941:302	$0, 0, 0, 0, 0, \frac{12}{343}\sqrt{95}e^{12}, \frac{1}{343}\sqrt{16530}e^{34}, \frac{10}{343}\sqrt{798}e^{13},$ $\frac{12}{343}\sqrt{285}e^{16} + \frac{1}{343}\sqrt{74670}e^{25} + \frac{2}{343}\sqrt{285}e^{47}$	$(-\frac{39}{343}, \frac{188}{343}, -\frac{58}{343}, \frac{12}{49}, -\frac{78}{343}, \frac{149}{343}, \frac{26}{343}, -\frac{97}{343}, \frac{110}{343})$ $+ \frac{10}{343}\sqrt{1653}e^2 \otimes e_8$	{2456, 2567, 345789, 3589}
941:303	$0, 0, 0, 0, 0, \frac{2}{807}\sqrt{20215}e^{12}, \frac{4}{807}\sqrt{1866}e^{34}, \frac{2}{807}\sqrt{83037}e^{15},$ $\frac{2}{807}\sqrt{22081}e^{13} + \frac{4}{807}\sqrt{14306}e^{26} + \frac{4}{807}\sqrt{14306}e^{47}$	$(-\frac{130}{807}, \frac{8}{269}, \frac{16}{269}, -\frac{65}{807}, \frac{180}{269}, -\frac{106}{807}, -\frac{17}{807}, \frac{410}{807}, -\frac{82}{807})$ $+ \frac{4}{807}\sqrt{51626}e^5 \otimes e_9$	{2349, 2379, 3469, 3679}
941:303	$0, 0, 0, 0, 0, \frac{2}{727}\sqrt{76245}e^{12}, \frac{8}{727}\sqrt{1173}e^{34}, \frac{2}{727}\sqrt{44183}e^{15},$ $\frac{34}{727}\sqrt{345}e^{13} + \frac{12}{727}\sqrt{391}e^{26} + \frac{12}{727}\sqrt{391}e^{47}$	$(\frac{390}{727}, -\frac{48}{727}, -\frac{96}{727}, \frac{195}{727}, -\frac{392}{727}, \frac{342}{727}, \frac{99}{727}, -\frac{2}{727}, \frac{294}{727})$ $+ \frac{4}{727}\sqrt{60214}e^1 \otimes e_5$	{2345679, 23569, 34579, 359}
941:303	$0, 0, 0, 0, 0, \frac{6}{815}\sqrt{6601}e^{12}, \frac{12}{815}\sqrt{897}e^{34}, \frac{6}{815}\sqrt{6601}e^{15},$ $\frac{18}{815}\sqrt{851}e^{13} + \frac{12}{815}\sqrt{2139}e^{26} + \frac{24}{815}\sqrt{46}e^{47}$	$(-\frac{106}{815}, \frac{156}{815}, \frac{312}{815}, -\frac{53}{815}, -\frac{152}{815}, \frac{10}{163}, \frac{259}{815}, -\frac{258}{815}, \frac{206}{815})$ $+ \frac{12}{815}\sqrt{3910}e^2 \otimes e_8$	{123459, 123579, 134689, 136789}
941:303	$0, 0, 0, 0, 0, \frac{34}{4017}\sqrt{617}e^{12}, \frac{68}{4017}\sqrt{102}e^{34}, \frac{34}{4017}\sqrt{1389}e^{15},$ $\frac{34}{4017}\sqrt{767}e^{13} + \frac{68}{4017}\sqrt{362}e^{26} + \frac{68}{4017}\sqrt{110}e^{47}$	$(-\frac{782}{4017}, \frac{136}{1339}, \frac{272}{1339}, -\frac{391}{4017}, \frac{204}{1339}, -\frac{374}{4017}, \frac{425}{4017}, -\frac{170}{4017}, \frac{34}{4017})$ $+ \frac{136}{1339}\sqrt{14}e^2 \otimes e_8 + \frac{68}{4017}\sqrt{386}e^5 \otimes e_9$	{134689, 136789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:303	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{24}\sqrt{93}e^{15},$ $\frac{1}{8}\sqrt{5}e^{13} + \frac{1}{24}\sqrt{30}e^{26} + \frac{1}{24}\sqrt{30}e^{47}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{24}\sqrt{123}e^3 \otimes e_8 + \frac{1}{8}\sqrt{15}e^5 \otimes e_9$	{2349, 2379, 3469, 3679}
941:303	$0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{4}e^{34}, \frac{1}{24}\sqrt{93}e^{15},$ $\frac{1}{8}\sqrt{5}e^{13} + \frac{1}{24}\sqrt{30}e^{26} + \frac{1}{24}\sqrt{30}e^{47}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{24}\sqrt{123}e^3 \otimes e_8 - \frac{1}{8}\sqrt{15}e^5 \otimes e_9$	{2349, 2379, 3469, 3679}
941:303	$0, 0, 0, 0, 0, \frac{16}{3911}\sqrt{22}e^{12}, \frac{24}{3911}\sqrt{133}e^{34}, \frac{8}{3911}\sqrt{1661}e^{15},$ $\frac{16}{3911}\sqrt{246}e^{13} + \frac{8}{3911}\sqrt{401}e^{26} + \frac{8}{3911}\sqrt{1498}e^{47}$	$(-\frac{176}{3911}, \frac{100}{3911}, \frac{200}{3911}, -\frac{88}{3911}, \frac{56}{3911}, -\frac{76}{3911}, \frac{112}{3911}, -\frac{120}{3911}, \frac{24}{3911})$ $+ \frac{16}{3911}\sqrt{326}e^5 \otimes e_9 + \frac{8}{3911}\sqrt{2194}e^4 \otimes e_8$	{124567, 1457}
941:303	$0, 0, 0, 0, 0, \frac{6}{101}\sqrt{7}e^{12}, \frac{14}{101}\sqrt{14}e^{34}, \frac{2}{101}\sqrt{665}e^{15},$ $\frac{4}{101}\sqrt{161}e^{13} + \frac{6}{101}\sqrt{7}e^{26} + \frac{2}{101}\sqrt{665}e^{47}$	$(\frac{9}{101}, \frac{6}{101}, \frac{12}{101}, \frac{9}{202}, -\frac{65}{202}, \frac{15}{101}, \frac{33}{202}, -\frac{47}{202}, \frac{21}{101})$ $+ \frac{4}{101}\sqrt{301}e^4 \otimes e_8$	{123459, 123789, 134569, 136789}
941:304	$0, 0, 0, 0, 0, \frac{3}{1313}\sqrt{127670}e^{12}, \frac{1}{1313}\sqrt{346962}e^{34}, \frac{1313}{1313}\sqrt{686414}e^{15},$ $\frac{6}{1313}\sqrt{32293}e^{16} + \frac{5}{1313}\sqrt{31542}e^{23} + \frac{3}{1313}\sqrt{4506}e^{47}$	$(\frac{231}{1313}, -\frac{72}{1313}, \frac{462}{1313}, -\frac{36}{1313}, -\frac{40}{101}, \frac{159}{1313}, \frac{426}{1313}, -\frac{289}{1313}, \frac{30}{101})$ $+ \frac{1}{1313}\sqrt{1719790}e^1 \otimes e_5$	{1346, 1367, 345, 357}
941:304	$0, 0, 0, 0, 0, \frac{3}{215}\sqrt{834}e^{12}, \frac{3}{215}\sqrt{1158}e^{34}, \frac{9}{215}\sqrt{42}e^{15},$ $\frac{18}{215}\sqrt{14}e^{16} + \frac{3}{215}\sqrt{1002}e^{23} + \frac{9}{215}\sqrt{110}e^{47}$	$(\frac{9}{215}, \frac{36}{215}, \frac{18}{215}, \frac{18}{215}, -\frac{72}{215}, \frac{9}{43}, \frac{36}{215}, -\frac{63}{215}, \frac{54}{215})$ $+ \frac{3}{215}\sqrt{1398}e^1 \otimes e_5 + \frac{6}{215}\sqrt{498}e^4 \otimes e_8$	{123789, 2356789}
941:304	$0, 0, 0, 0, 0, \frac{14}{3845}\sqrt{1109}e^{12}, \frac{14}{3845}\sqrt{154}e^{34}, \frac{28}{3845}\sqrt{467}e^{15},$ $\frac{14}{769}\sqrt{26}e^{16} + \frac{14}{3845}\sqrt{1722}e^{23} + \frac{28}{3845}\sqrt{71}e^{47}$	$(\frac{154}{3845}, -\frac{70}{769}, \frac{308}{3845}, -\frac{35}{769}, \frac{56}{3845}, -\frac{196}{3845}, \frac{133}{3845}, \frac{42}{769}, -\frac{42}{3845})$ $+ \frac{14}{3845}\sqrt{1661}e^5 \otimes e_9 + \frac{14}{3845}\sqrt{1921}e^3 \otimes e_8$	{45678, 568}
941:304	$0, 0, 0, 0, 0, \frac{1}{299}\sqrt{1794}e^{12}, \frac{1}{299}\sqrt{2438}e^{34}, \frac{2}{299}\sqrt{1426}e^{15},$ $\frac{2}{299}\sqrt{391}e^{16} + \frac{1}{299}\sqrt{966}e^{23} + \frac{2}{299}\sqrt{299}e^{47}$	$(-\frac{1}{13}, \frac{2}{13}, -\frac{2}{13}, \frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, 0, 0)$ $+ \frac{1}{299}\sqrt{5474}e^5 \otimes e_9 + \frac{4}{299}\sqrt{437}e^4 \otimes e_8$	{1457, 568}
941:304	$0, 0, 0, 0, 0, \frac{1}{1383}\sqrt{523370}e^{12}, \frac{1}{1383}\sqrt{165170}e^{34}, \frac{10}{461}\sqrt{1194}e^{15},$ $\frac{2}{1383}\sqrt{12935}e^{16} + \frac{1}{1383}\sqrt{933310}e^{23} + \frac{4}{1383}\sqrt{36815}e^{47}$	$(-\frac{83}{1383}, \frac{14}{1383}, -\frac{166}{1383}, \frac{7}{1383}, \frac{281}{461}, \frac{23}{461}, -\frac{53}{461}, \frac{760}{1383}, -\frac{152}{1383})$ $+ \frac{1}{1383}\sqrt{2314370}e^5 \otimes e_9$	{1234567, 12356, 234578, 2358}
941:304	$0, 0, 0, 0, 0, \frac{36}{3947}\sqrt{383}e^{12}, \frac{432}{3947}\sqrt{3}e^{34}, \frac{36}{3947}\sqrt{1594}e^{15},$ $\frac{72}{3947}\sqrt{113}e^{16} + \frac{36}{3947}\sqrt{1623}e^{23} + \frac{36}{3947}\sqrt{345}e^{47}$	$(-\frac{432}{3947}, \frac{828}{3947}, -\frac{864}{3947}, \frac{414}{3947}, \frac{612}{3947}, \frac{396}{3947}, -\frac{450}{3947}, \frac{180}{3947}, -\frac{36}{3947})$ $+ \frac{36}{3947}\sqrt{1741}e^2 \otimes e_8 + \frac{36}{3947}\sqrt{1879}e^5 \otimes e_9$	{249, 279}
941:304	$0, 0, 0, 0, 0, \frac{4}{2791}\sqrt{15485}e^{12}, \frac{20}{2791}\sqrt{7009}e^{34}, \frac{8}{2791}\sqrt{46129}e^{15},$ $\frac{4}{2791}\sqrt{83130}e^{16} + \frac{4}{2791}\sqrt{70742}e^{23} + \frac{4}{2791}\sqrt{202935}e^{47}$	$(-\frac{114}{2791}, \frac{942}{2791}, -\frac{228}{2791}, \frac{471}{2791}, -\frac{719}{2791}, \frac{828}{2791}, \frac{243}{2791}, -\frac{833}{2791}, \frac{714}{2791})$ $+ \frac{4}{2791}\sqrt{387614}e^4 \otimes e_8$	{1234569, 1236789, 2349, 235789}
941:304	$0, 0, 0, 0, 0, \frac{2}{1343}\sqrt{51290}e^{12}, \frac{3}{1343}\sqrt{28990}e^{34}, \frac{10}{1343}\sqrt{11373}e^{15},$ $\frac{3}{1343}\sqrt{69130}e^{16} + \frac{1}{1343}\sqrt{1242110}e^{23} + \frac{4}{1343}\sqrt{3345}e^{47}$	$(-\frac{117}{1343}, \frac{694}{1343}, -\frac{234}{1343}, \frac{347}{1343}, -\frac{304}{1343}, \frac{577}{1343}, \frac{113}{1343}, -\frac{421}{1343}, \frac{460}{1343})$ $+ \frac{1}{1343}\sqrt{2535510}e^2 \otimes e_8$	{1346789, 13689, 345789, 3589}
941:304	$0, 0, 0, 0, 0, \frac{2}{1313}\sqrt{142690}e^{12}, \frac{1}{1313}\sqrt{346962}e^{34}, \frac{4}{1313}\sqrt{64586}e^{15},$ $\frac{1}{1313}\sqrt{557242}e^{16} + \frac{2}{1313}\sqrt{232810}e^{23} + \frac{3}{1313}\sqrt{4506}e^{47}$	$(\frac{231}{1313}, -\frac{72}{1313}, \frac{462}{1313}, -\frac{36}{1313}, -\frac{40}{101}, \frac{159}{1313}, \frac{426}{1313}, -\frac{289}{1313}, \frac{30}{101})$ $+ \frac{1}{1313}\sqrt{1719790}e^3 \otimes e_8$	{1246789, 12689, 245789, 2589}
941:305	$0, 0, 0, 0, 0, \frac{35}{281}\sqrt{10}e^{12}, \frac{14}{281}\sqrt{195}e^{34}, \frac{7}{281}\sqrt{470}e^{13} + \frac{21}{281}\sqrt{110}e^{25},$ $\frac{49}{281}\sqrt{5}e^{15} + \frac{21}{281}\sqrt{15}e^{26} + \frac{7}{281}\sqrt{5}e^{37}$	$(\frac{49}{281}, -\frac{14}{281}, -\frac{91}{281}, \frac{203}{281}, -\frac{28}{281}, \frac{35}{281}, \frac{112}{281}, -\frac{42}{281}, \frac{21}{281})$ $+ \frac{7}{281}\sqrt{2345}e^4 \otimes e_8$	{1234569, 35678}
941:305	$0, 0, 0, 0, 0, \frac{7}{495}\sqrt{22}e^{12}, \frac{7}{495}\sqrt{506}e^{34}, \frac{7}{495}\sqrt{3322}e^{13} + \frac{14}{495}\sqrt{11}e^{25},$ $\frac{14}{495}\sqrt{385}e^{15} + \frac{14}{495}\sqrt{33}e^{26} + \frac{28}{495}\sqrt{187}e^{37}$	$(0, \frac{7}{45}, \frac{7}{15}, -\frac{28}{45}, \frac{14}{45}, \frac{7}{45}, -\frac{7}{45}, \frac{7}{15}, \frac{14}{45})$ $+ \frac{7}{495}\sqrt{9086}e^3 \otimes e_4$	{13569, 45}
941:306	$0, 0, 0, 0, 0, \frac{98}{6817}\sqrt{719}e^{13} + \frac{49}{6817}\sqrt{5870}e^{25}, \frac{49}{6817}\sqrt{3230}e^{15} + \frac{49}{6817}\sqrt{2402}e^{26} + \frac{637}{6817}\sqrt{38}e^{47}$	$(\frac{1715}{6817}, -\frac{196}{6817}, -\frac{2303}{6817}, \frac{1813}{6817}, -\frac{392}{6817}, \frac{1519}{6817}, -\frac{490}{6817}, -\frac{588}{6817}, \frac{1323}{6817})$ $+ \frac{49}{6817}\sqrt{11778}e^4 \otimes e_8$	{1234569, 2457}
941:307	$0, 0, 0, 0, 0, \frac{8}{583}\sqrt{165}e^{12}, \frac{4}{583}\sqrt{1165}e^{34}, \frac{4}{583}\sqrt{910}e^{13} + \frac{4}{583}\sqrt{1385}e^{25},$ $\frac{4}{583}\sqrt{215}e^{16} + \frac{4}{583}\sqrt{1490}e^{35} + \frac{8}{583}\sqrt{385}e^{47}$	$(\frac{56}{583}, -\frac{82}{583}, -\frac{54}{583}, \frac{42}{583}, \frac{84}{583}, -\frac{26}{583}, -\frac{12}{583}, \frac{2}{583}, \frac{30}{583})$ $+ \frac{40}{583}\sqrt{26}e^4 \otimes e_8$	{1234569, 158}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:309	$0, 0, 0, 0, 0, \frac{11}{6133}\sqrt{2902}e^{12}, \frac{154}{6133}\sqrt{26}e^{34},$ $\frac{165}{6133}\sqrt{30}e^{15} + \frac{22}{6133}\sqrt{793}e^{23}, \frac{22}{6133}\sqrt{515}e^{16} + \frac{11}{6133}\sqrt{6194}e^{35} + \frac{66}{6133}\sqrt{190}e^{47}$	$(-\frac{286}{6133}, \frac{473}{6133}, -\frac{429}{6133}, \frac{165}{6133}, \frac{330}{6133}, \frac{187}{6133}, -\frac{264}{6133}, \frac{44}{6133}, -\frac{99}{6133})$ $+\frac{55}{6133}\sqrt{442}e^4 \otimes e_8$	{1234569, 1457}
941:310	$0, 0, 0, 0, 0, \frac{42}{509}\sqrt{26}e^{12}, \frac{14}{509}\sqrt{286}e^{34}, \frac{28}{509}\sqrt{103}e^{15} + \frac{28}{509}\sqrt{151}e^{23},$ $\frac{168}{509}e^{16} + \frac{56}{509}\sqrt{15}e^{37} + \frac{14}{509}\sqrt{574}e^{45}$	$(\frac{70}{509}, -\frac{14}{509}, -\frac{84}{509}, \frac{294}{509}, -\frac{168}{509}, \frac{56}{509}, \frac{210}{509}, -\frac{98}{509}, \frac{126}{509})$ $+\frac{14}{509}\sqrt{1722}e^4 \otimes e_8$	{1457, 2589}
941:329	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{11}e^{12}, \frac{2}{11}\sqrt{11}e^{34}, \frac{2}{11}\sqrt{22}e^{13} + \frac{2}{11}\sqrt{22}e^{24},$ $\frac{1}{11}\sqrt{11}e^{16} + \frac{1}{11}\sqrt{11}e^{23} + \frac{1}{11}\sqrt{11}e^{47}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{11}\sqrt{209}e^5 \otimes e_8$	{12345679, 2389}
941:329	$0, 0, 0, 0, 0, \frac{10}{201}\sqrt{246}e^{12}, \frac{10}{201}\sqrt{78}e^{34}, \frac{10}{201}\sqrt{102}e^{13} + \frac{10}{201}\sqrt{66}e^{24},$ $\frac{10}{201}\sqrt{210}e^{16} + \frac{10}{67}\sqrt{19}e^{23} + \frac{10}{201}\sqrt{42}e^{47}$	$(\frac{5}{67}, \frac{10}{67}, \frac{10}{67}, \frac{5}{67}, -\frac{45}{67}, \frac{15}{67}, \frac{15}{67}, \frac{15}{67}, \frac{20}{67})$ $+\frac{20}{67}\sqrt{14}e^1 \otimes e_5$	{12379, 2345689}
941:329	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{46}e^{12}, \frac{1}{23}\sqrt{46}e^{34}, \frac{2}{23}\sqrt{23}e^{13} + \frac{2}{23}\sqrt{23}e^{24},$ $\frac{1}{23}\sqrt{230}e^{16} + \frac{1}{23}\sqrt{230}e^{23} + \frac{1}{23}\sqrt{230}e^{47}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+\frac{1}{23}\sqrt{874}e^5 \otimes e_9$	{14567, 58}
941:329	$0, 0, 0, 0, 0, \frac{70}{167}\sqrt{2}e^{12}, \frac{7}{167}\sqrt{86}e^{34}, \frac{14}{167}\sqrt{58}e^{13} + \frac{14}{167}\sqrt{85}e^{24},$ $\frac{14}{167}\sqrt{23}e^{16} + \frac{49}{167}\sqrt{6}e^{23} + \frac{7}{167}\sqrt{194}e^{47}$	$(\frac{14}{167}, \frac{28}{167}, \frac{28}{167}, \frac{14}{167}, -\frac{119}{167}, \frac{42}{167}, \frac{42}{167}, \frac{42}{167}, \frac{56}{167})$ $+\frac{7}{167}\sqrt{858}e^2 \otimes e_5$	{1567, 458}
941:330	$0, 0, 0, 0, 0, \frac{42}{167}\sqrt{11}e^{12}, \frac{14}{167}\sqrt{3}e^{34}, \frac{7}{167}\sqrt{438}e^{13} + \frac{7}{167}\sqrt{330}e^{24},$ $\frac{49}{167}\sqrt{6}e^{15} + \frac{84}{167}\sqrt{2}e^{26} + \frac{28}{167}\sqrt{6}e^{37}$	$(\frac{77}{167}, -\frac{35}{167}, -\frac{35}{167}, \frac{77}{167}, -\frac{70}{167}, \frac{42}{167}, \frac{42}{167}, \frac{42}{167}, \frac{7}{167})$ $+\frac{7}{167}\sqrt{858}e^1 \otimes e_5$	{234568, 457}
941:330	$0, 0, 0, 0, 0, \frac{5}{461}\sqrt{3498}e^{12}, \frac{10}{461}\sqrt{498}e^{34},$ $\frac{20}{461}\sqrt{114}e^{13} + \frac{10}{461}\sqrt{1209}e^{24}, \frac{15}{461}\sqrt{502}e^{15} + \frac{20}{461}\sqrt{159}e^{26} + \frac{5}{461}\sqrt{1038}e^{37}$	$(-\frac{120}{461}, \frac{105}{461}, \frac{105}{461}, -\frac{120}{461}, \frac{210}{461}, -\frac{15}{461}, -\frac{15}{461}, -\frac{15}{461}, \frac{90}{461})$ $+\frac{45}{461}\sqrt{94}e^5 \otimes e_8$	{1489, 238}
941:331	$0, 0, 0, 0, 0, \frac{58}{1093}\sqrt{259}e^{12}, \frac{174}{1093}\sqrt{3}e^{34},$ $\frac{29}{1093}\sqrt{970}e^{13} + \frac{29}{1093}\sqrt{982}e^{24}, \frac{116}{1093}\sqrt{35}e^{16} + \frac{29}{1093}\sqrt{934}e^{25} + \frac{116}{1093}\sqrt{35}e^{37}$	$(-\frac{145}{1093}, \frac{551}{1093}, \frac{319}{1093}, -\frac{377}{1093}, \frac{290}{1093}, \frac{406}{1093}, -\frac{58}{1093}, \frac{174}{1093}, \frac{261}{1093})$ $+\frac{145}{1093}\sqrt{74}e^2 \otimes e_5$	{156, 357}
941:332	$0, 0, 0, 0, 0, \frac{74}{2597}\sqrt{771}e^{12}, \frac{74}{2597}\sqrt{74}e^{34},$ $\frac{148}{2597}\sqrt{71}e^{13} + \frac{74}{2597}\sqrt{331}e^{25}, \frac{148}{2597}\sqrt{5}e^{16} + \frac{74}{2597}\sqrt{899}e^{23} + \frac{666}{2597}\sqrt{2}e^{47}$	$(-\frac{74}{2597}, \frac{1258}{2597}, -\frac{148}{2597}, \frac{629}{2597}, -\frac{1480}{2597}, \frac{1184}{2597}, \frac{481}{2597}, -\frac{222}{2597}, \frac{1110}{2597})$ $+\frac{148}{2597}\sqrt{551}e^2 \otimes e_5$	{34579, 359}
941:332	$0, 0, 0, 0, 0, \frac{62}{2861}\sqrt{65}e^{12}, \frac{62}{2861}\sqrt{310}e^{34}, \frac{1612}{2861}e^{13} + \frac{930}{2861}\sqrt{5}e^{25},$ $\frac{248}{2861}\sqrt{57}e^{16} + \frac{62}{2861}\sqrt{227}e^{23} + \frac{62}{2861}\sqrt{574}e^{47}$	$(\frac{310}{2861}, -\frac{806}{2861}, \frac{620}{2861}, -\frac{403}{2861}, \frac{1736}{2861}, -\frac{496}{2861}, \frac{217}{2861}, \frac{930}{2861}, -\frac{186}{2861})$ $+\frac{124}{2861}\sqrt{595}e^5 \otimes e_9$	{3469, 3679}
941:332	$0, 0, 0, 0, 0, \frac{64}{2831}\sqrt{15}e^{12}, \frac{32}{2831}\sqrt{1145}e^{34},$ $\frac{64}{2831}\sqrt{166}e^{13} + \frac{32}{2831}\sqrt{1165}e^{25}, \frac{32}{2831}\sqrt{143}e^{16} + \frac{64}{2831}\sqrt{317}e^{23} + \frac{32}{2831}\sqrt{1414}e^{47}$	$(-\frac{80}{2831}, \frac{544}{2831}, -\frac{160}{2831}, \frac{272}{2831}, -\frac{784}{2831}, \frac{464}{2831}, \frac{112}{2831}, -\frac{240}{2831}, \frac{384}{2831})$ $+\frac{1120}{2831}\sqrt{2}e^4 \otimes e_8$	{1234569, 23789}
941:333	$0, 0, 0, 0, 0, \frac{98}{4285}\sqrt{1223}e^{12}, \frac{98}{4285}\sqrt{326}e^{34},$ $\frac{98}{4285}\sqrt{181}e^{13} + \frac{49}{4285}\sqrt{3274}e^{25}, \frac{98}{4285}\sqrt{889}e^{14} + \frac{49}{4285}\sqrt{5286}e^{26} + \frac{49}{4285}\sqrt{458}e^{37}$	$(-\frac{98}{857}, \frac{833}{4285}, -\frac{49}{857}, \frac{1666}{4285}, -\frac{1568}{4285}, \frac{343}{4285}, \frac{1421}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+\frac{49}{4285}\sqrt{7490}e^2 \otimes e_5$	{2467, 457}
941:333	$0, 0, 0, 0, 0, \frac{49}{4285}\sqrt{2598}e^{12}, \frac{98}{4285}\sqrt{326}e^{34},$ $\frac{98}{4285}\sqrt{181}e^{13} + \frac{49}{4285}\sqrt{1054}e^{25}, \frac{49}{4285}\sqrt{3934}e^{14} + \frac{49}{4285}\sqrt{551}e^{26} + \frac{49}{4285}\sqrt{458}e^{37}$	$(-\frac{98}{857}, \frac{833}{4285}, -\frac{49}{857}, \frac{1666}{4285}, -\frac{1568}{4285}, \frac{343}{4285}, \frac{1421}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+\frac{49}{4285}\sqrt{7490}e^4 \otimes e_8$	{12689, 1589}
941:333	$0, 0, 0, 0, 0, \frac{98}{4435}\sqrt{337}e^{12}, \frac{98}{4435}\sqrt{51}e^{34},$ $\frac{98}{4435}\sqrt{739}e^{13} + \frac{196}{4435}\sqrt{291}e^{25}, \frac{784}{4435}\sqrt{14}e^{14} + \frac{49}{4435}\sqrt{794}e^{26} + \frac{98}{4435}\sqrt{753}e^{37}$	$(\frac{196}{887}, -\frac{637}{4435}, \frac{98}{887}, \frac{1274}{4435}, \frac{2107}{4435}, \frac{343}{4435}, -\frac{784}{4435}, \frac{294}{887}, -\frac{294}{4435})$ $+\frac{49}{4435}\sqrt{7630}e^5 \otimes e_9$	{2357, 568}
941:334	$0, 0, 0, 0, 0, \frac{19}{182}\sqrt{15}e^{12}, \frac{19}{182}\sqrt{61}e^{34}, \frac{19}{364}\sqrt{298}e^{13} + \frac{19}{182}\sqrt{66}e^{25},$ $\frac{19}{364}\sqrt{183}e^{16} + \frac{19}{364}\sqrt{514}e^{24} + \frac{19}{364}\sqrt{183}e^{37}$	$(-\frac{95}{728}, \frac{209}{364}, \frac{209}{728}, -\frac{95}{364}, -\frac{38}{91}, \frac{323}{728}, \frac{19}{728}, \frac{57}{364}, \frac{57}{182})$ $+\frac{171}{182}\sqrt{2}e^2 \otimes e_5$	{1345679, 459}
941:334	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{330}e^{12}, \frac{1}{44}\sqrt{143}e^{34}, \frac{1}{44}\sqrt{902}e^{13} + \frac{1}{4}\sqrt{6}e^{25},$ $\frac{1}{44}\sqrt{627}e^{16} + \frac{1}{44}\sqrt{638}e^{24} + \frac{1}{44}\sqrt{627}e^{37}$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+\frac{3}{22}\sqrt{22}e^5 \otimes e_9$	{123489, 246789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:334	$0, 0, 0, 0, 0, \frac{1}{4}\sqrt{6}e^{12}, \frac{1}{2}e^{34}, \frac{1}{4}\sqrt{10}e^{13} + \frac{1}{4}\sqrt{2}e^{25},$ $\frac{1}{4}\sqrt{5}e^{16} + \frac{1}{4}\sqrt{10}e^{24} + \frac{1}{4}\sqrt{5}e^{37}$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{2}\sqrt{2}e^4 \otimes e_8$	{178, 368}
941:386	$0, 0, 0, 0, 0, -\frac{1}{197}\sqrt{8178}e^{12}, \frac{1}{197}\sqrt{8178}e^{13}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{2}{197}\sqrt{4611}e^{18} + \frac{3}{197}\sqrt{174}e^{26} + \frac{3}{197}\sqrt{174}e^{37}$	$(\frac{47}{197}, \frac{16}{197}, \frac{16}{197}, -\frac{15}{197}, -\frac{127}{197}, \frac{63}{197}, \frac{63}{197}, \frac{32}{197}, \frac{79}{197})$ $+ \frac{18}{197}\sqrt{174}e^1 \otimes e_5$	{1238, 1278, 1678, 23456789, 245689, 4589, 1238, 1278, 1678, 23456789, 245689, 4589}
941:386	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{8178}e^{12}, \frac{1}{197}\sqrt{8178}e^{13}, \frac{10}{197}\sqrt{174}e^{14},$ $\frac{2}{197}\sqrt{4611}e^{18} + \frac{3}{197}\sqrt{174}e^{26} + \frac{3}{197}\sqrt{174}e^{37}$	$(\frac{47}{197}, \frac{16}{197}, \frac{16}{197}, -\frac{15}{197}, -\frac{127}{197}, \frac{63}{197}, \frac{63}{197}, \frac{32}{197}, \frac{79}{197})$ $+ \frac{18}{197}\sqrt{174}e^1 \otimes e_5$	{1238, 1278, 1678, 23456789, 245689, 4589, 1238, 1278, 1678, 23456789, 245689, 4589}
941:386	$0, 0, 0, 0, 0, -\frac{1}{47}\sqrt{413}e^{12}, \frac{1}{47}\sqrt{413}e^{13}, \frac{6}{47}\sqrt{59}e^{14},$ $\frac{3}{47}\sqrt{59}e^{18} + \frac{1}{47}\sqrt{118}e^{26} + \frac{1}{47}\sqrt{118}e^{37}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, \frac{29}{47}, -\frac{30}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{4543}e^4 \otimes e_5$	{1235678, 12568, 158, 23489, 24789, 46789, 1235678, 12568, 158, 23489, 24789, 46789}
941:386	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{413}e^{12}, \frac{1}{47}\sqrt{413}e^{13}, \frac{6}{47}\sqrt{59}e^{14},$ $\frac{3}{47}\sqrt{59}e^{18} + \frac{1}{47}\sqrt{118}e^{26} + \frac{1}{47}\sqrt{118}e^{37}$	$(-\frac{7}{47}, \frac{11}{47}, \frac{11}{47}, \frac{29}{47}, -\frac{30}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, \frac{15}{47})$ $+ \frac{1}{47}\sqrt{4543}e^4 \otimes e_5$	{1235678, 12568, 158, 23489, 24789, 46789, 1235678, 12568, 158, 23489, 24789, 46789}
941:386	$0, 0, 0, 0, 0, -\frac{5}{49}\sqrt{6}e^{12}, \frac{5}{49}\sqrt{6}e^{13}, \frac{20}{49}e^{14},$ $\frac{10}{49}\sqrt{11}e^{18} + \frac{5}{49}\sqrt{38}e^{26} + \frac{5}{49}\sqrt{38}e^{37}$	$(-\frac{3}{49}, \frac{1}{49}, \frac{1}{49}, \frac{5}{49}, 1, -\frac{2}{49}, -\frac{2}{49}, \frac{2}{49}, -\frac{1}{49})$ $+ \frac{20}{49}\sqrt{10}e^5 \otimes e_9$	{1235678, 12568, 158, 23489, 24789, 46789, 1235678, 12568, 158, 23489, 24789, 46789}
941:386	$0, 0, 0, 0, 0, \frac{5}{49}\sqrt{6}e^{12}, \frac{5}{49}\sqrt{6}e^{13}, \frac{20}{49}e^{14},$ $\frac{10}{49}\sqrt{11}e^{18} + \frac{5}{49}\sqrt{38}e^{26} + \frac{5}{49}\sqrt{38}e^{37}$	$(-\frac{3}{49}, \frac{1}{49}, \frac{1}{49}, \frac{5}{49}, 1, -\frac{2}{49}, -\frac{2}{49}, \frac{2}{49}, -\frac{1}{49})$ $+ \frac{20}{49}\sqrt{10}e^5 \otimes e_9$	{1235678, 12568, 158, 23489, 24789, 46789, 1235678, 12568, 158, 23489, 24789, 46789}
941:386	$0, 0, 0, 0, 0, \frac{8}{65}\sqrt{6}e^{12}, \frac{8}{65}\sqrt{6}e^{13}, \frac{4}{65}\sqrt{6}e^{14},$ $\frac{8}{65}\sqrt{14}e^{18} + \frac{4}{65}\sqrt{22}e^{26} + \frac{4}{65}\sqrt{22}e^{37}$	$(\frac{12}{65}, -\frac{4}{65}, -\frac{4}{65}, -\frac{4}{65}, \frac{36}{65}, \frac{8}{65}, \frac{8}{65}, -\frac{8}{65}, \frac{4}{65})$ $+ \frac{4}{65}\sqrt{114}e^5 \otimes e_9 - \frac{8}{65}\sqrt{29}e^1 \otimes e_4$	{1239, 1279, 1679, 234567, 2456, 45, 1239, 1279, 1679, 234567, 2456, 45}
941:386	$0, 0, 0, 0, 0, -\frac{8}{65}\sqrt{6}e^{12}, \frac{8}{65}\sqrt{6}e^{13}, \frac{4}{65}\sqrt{6}e^{14},$ $\frac{8}{65}\sqrt{14}e^{18} + \frac{4}{65}\sqrt{22}e^{26} + \frac{4}{65}\sqrt{22}e^{37}$	$(\frac{12}{65}, -\frac{4}{65}, -\frac{4}{65}, -\frac{4}{65}, \frac{36}{65}, \frac{8}{65}, \frac{8}{65}, -\frac{8}{65}, \frac{4}{65})$ $+ \frac{4}{65}\sqrt{114}e^5 \otimes e_9 + \frac{8}{65}\sqrt{29}e^1 \otimes e_4$	{1239, 1279, 1369, 1679, 234567, 2456, 3457, 45, 1239, 1279, 1369, 1679, 234567, 2456, 3457, 45}
941:386	$0, 0, 0, 0, 0, \frac{8}{65}\sqrt{6}e^{12}, \frac{8}{65}\sqrt{6}e^{13}, \frac{4}{65}\sqrt{6}e^{14},$ $\frac{8}{65}\sqrt{14}e^{18} + \frac{4}{65}\sqrt{22}e^{26} + \frac{4}{65}\sqrt{22}e^{37}$	$(\frac{12}{65}, -\frac{4}{65}, -\frac{4}{65}, -\frac{4}{65}, \frac{36}{65}, \frac{8}{65}, \frac{8}{65}, -\frac{8}{65}, \frac{4}{65})$ $+ \frac{4}{65}\sqrt{114}e^5 \otimes e_9 + \frac{8}{65}\sqrt{29}e^1 \otimes e_4$	{1239, 1279, 1679, 234567, 2456, 45, 1239, 1279, 1679, 234567, 2456, 45}
941:388	$0, 0, 0, 0, 0, \frac{56}{2799}\sqrt{29}e^{12}, \frac{56}{2799}\sqrt{754}e^{13}, \frac{56}{2799}\sqrt{101}e^{24},$ $\frac{56}{2799}\sqrt{479}e^{16} + \frac{56}{2799}\sqrt{377}e^{28} + \frac{56}{2799}\sqrt{638}e^{37}$	$(\frac{28}{2799}, \frac{812}{2799}, \frac{140}{933}, -\frac{84}{311}, -\frac{1148}{2799}, \frac{280}{933}, \frac{448}{2799}, \frac{56}{2799}, \frac{868}{2799})$ $+ \frac{112}{2799}\sqrt{370}e^3 \otimes e_5 + \frac{56}{2799}\sqrt{987}e^2 \otimes e_4$	{134689, 1456789, 23678, 2568}
941:388	$0, 0, 0, 0, 0, \frac{56}{2799}\sqrt{29}e^{12}, \frac{56}{2799}\sqrt{754}e^{13}, \frac{56}{2799}\sqrt{101}e^{24},$ $\frac{56}{2799}\sqrt{479}e^{16} + \frac{56}{2799}\sqrt{377}e^{28} + \frac{56}{2799}\sqrt{638}e^{37}$	$(\frac{28}{2799}, \frac{812}{2799}, \frac{140}{933}, -\frac{84}{311}, -\frac{1148}{2799}, \frac{280}{933}, \frac{448}{2799}, \frac{56}{2799}, \frac{868}{2799})$ $+ \frac{112}{2799}\sqrt{370}e^3 \otimes e_5 - \frac{56}{2799}\sqrt{987}e^2 \otimes e_4$	{134689, 1456789, 23678, 2568}
941:388	$0, 0, 0, 0, 0, \frac{14}{2781}\sqrt{10189}e^{12}, \frac{14}{2781}\sqrt{30199}e^{13}, \frac{14}{2781}\sqrt{6785}e^{24},$ $\frac{14}{2781}\sqrt{16445}e^{16} + \frac{14}{2781}\sqrt{3749}e^{28} + \frac{14}{2781}\sqrt{25553}e^{37}$	$(\frac{287}{2781}, \frac{427}{2781}, \frac{119}{927}, \frac{49}{927}, -\frac{1897}{2781}, \frac{238}{927}, \frac{644}{2781}, \frac{574}{2781}, \frac{1001}{2781})$ $+ \frac{14}{2781}\sqrt{53797}e^3 \otimes e_5$	{123469, 1245679, 367, 56}
941:388	$0, 0, 0, 0, 0, \frac{10}{343}\sqrt{798}e^{12}, \frac{12}{343}\sqrt{95}e^{13}, \frac{1}{343}\sqrt{16530}e^{24},$ $\frac{1}{343}\sqrt{74670}e^{16} + \frac{12}{343}\sqrt{285}e^{28} + \frac{1}{343}\sqrt{285}e^{37}$	$(\frac{48}{343}, \frac{2}{49}, \frac{31}{343}, \frac{82}{343}, -\frac{237}{343}, \frac{62}{343}, \frac{79}{343}, \frac{96}{343}, \frac{110}{343})$ $+ \frac{10}{343}\sqrt{1653}e^1 \otimes e_5$	{1368, 1678, 23456789, 245689}
941:388	$0, 0, 0, 0, 0, \frac{1}{45}\sqrt{161}e^{12}, \frac{1}{45}\sqrt{46}e^{13}, \frac{1}{30}\sqrt{138}e^{24},$ $\frac{23}{90}\sqrt{6}e^{16} + \frac{1}{45}\sqrt{897}e^{28} + \frac{1}{90}\sqrt{3266}e^{37}$	$(\frac{1}{45}, -\frac{1}{15}, -\frac{1}{45}, \frac{1}{9}, 1, -\frac{2}{45}, 0, \frac{2}{45}, -\frac{1}{45})$ $+ \frac{1}{90}\sqrt{13478}e^5 \otimes e_9$	{13489, 14789, 23578, 258}
941:388	$0, 0, 0, 0, 0, \frac{8}{705}\sqrt{2622}e^{12}, \frac{2}{705}\sqrt{35834}e^{13}, \frac{2}{705}\sqrt{116679}e^{24},$ $\frac{1}{705}\sqrt{27094}e^{16} + \frac{2}{705}\sqrt{2622}e^{28} + \frac{1}{705}\sqrt{44574}e^{37}$	$(\frac{164}{705}, -\frac{22}{141}, \frac{9}{235}, \frac{146}{235}, -\frac{436}{705}, \frac{18}{235}, \frac{191}{705}, \frac{328}{705}, \frac{218}{705})$ $+ \frac{1}{705}\sqrt{997234}e^4 \otimes e_5$	{123469, 124679, 3567, 56}
941:388	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{11990}e^{12}, \frac{6}{239}\sqrt{109}e^{13}, \frac{1}{239}\sqrt{30738}e^{24},$ $\frac{4}{239}\sqrt{327}e^{16} + \frac{2}{239}\sqrt{8393}e^{28} + \frac{1}{239}\sqrt{3270}e^{37}$	$(\frac{18}{239}, \frac{64}{239}, \frac{41}{239}, -\frac{28}{239}, -\frac{154}{239}, \frac{82}{239}, \frac{59}{239}, \frac{36}{239}, \frac{100}{239})$ $+ \frac{1}{239}\sqrt{85674}e^2 \otimes e_5$	{1238, 1278, 345789, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:389	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{330}e^{12}, -\frac{1}{65}\sqrt{330}e^{13}, \frac{1}{65}\sqrt{330}e^{14},$ $\frac{2}{65}\sqrt{429}e^{26} + \frac{2}{65}\sqrt{429}e^{37} + \frac{2}{65}\sqrt{429}e^{48}$	$(\frac{1}{13}, -\frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, 1, \frac{2}{65}, \frac{2}{65}, \frac{2}{65}, -\frac{1}{65})$ $+ \frac{3}{65}\sqrt{770}e^5 \otimes e_9$	{12349, 12389, 12479, 12789, 13689, 16789, 2345678, 23567, 24568, 256, 357, 5, 12349, 12389, 12479, 12789, 13689, 16789, 2345678, 23567, 24568, 256, 357, 5}
941:389	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{330}e^{12}, \frac{1}{65}\sqrt{330}e^{13}, \frac{1}{65}\sqrt{330}e^{14},$ $\frac{2}{65}\sqrt{429}e^{26} + \frac{2}{65}\sqrt{429}e^{37} + \frac{2}{65}\sqrt{429}e^{48}$	$(\frac{1}{13}, -\frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, 1, \frac{2}{65}, \frac{2}{65}, \frac{2}{65}, -\frac{1}{65})$ $+ \frac{3}{65}\sqrt{770}e^5 \otimes e_9$	{12349, 12389, 12789, 16789, 2345678, 23567, 256, 5, 12349, 12389, 12789, 16789, 2345678, 23567, 256, 5}
941:389	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{429}e^{12}, -\frac{2}{65}\sqrt{429}e^{13}, \frac{2}{65}\sqrt{429}e^{14},$ $\frac{1}{65}\sqrt{330}e^{26} + \frac{1}{65}\sqrt{330}e^{37} + \frac{1}{65}\sqrt{330}e^{48}$	$(\frac{2}{5}, -\frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, -\frac{8}{13}, \frac{23}{65}, \frac{23}{65}, \frac{23}{65}, \frac{4}{13})$ $+ \frac{3}{65}\sqrt{770}e^1 \otimes e_5$	{12349, 12389, 12479, 12789, 13689, 16789, 2345678, 23567, 24568, 256, 357, 5, 12349, 12389, 12479, 12789, 13689, 16789, 2345678, 23567, 24568, 256, 357, 5}
941:389	$0, 0, 0, 0, 0, \frac{2}{65}\sqrt{429}e^{12}, \frac{2}{65}\sqrt{429}e^{13}, \frac{2}{65}\sqrt{429}e^{14},$ $\frac{1}{65}\sqrt{330}e^{26} + \frac{1}{65}\sqrt{330}e^{37} + \frac{1}{65}\sqrt{330}e^{48}$	$(\frac{2}{5}, -\frac{3}{65}, -\frac{3}{65}, -\frac{3}{65}, -\frac{8}{13}, \frac{23}{65}, \frac{23}{65}, \frac{23}{65}, \frac{4}{13})$ $+ \frac{3}{65}\sqrt{770}e^1 \otimes e_5$	{12349, 12389, 12789, 16789, 2345678, 23567, 256, 5, 12349, 12389, 12789, 16789, 2345678, 23567, 256, 5}
941:389	$0, 0, 0, 0, 0, \frac{6}{49}\sqrt{46}e^{12}, -\frac{1}{49}\sqrt{230}e^{13}, \frac{1}{49}\sqrt{230}e^{14},$ $\frac{6}{49}\sqrt{46}e^{26} + \frac{1}{49}\sqrt{230}e^{37} + \frac{1}{49}\sqrt{230}e^{48}$	$(-\frac{5}{49}, \frac{13}{49}, \frac{13}{49}, \frac{13}{49}, -\frac{33}{49}, \frac{8}{49}, \frac{8}{49}, \frac{8}{49}, \frac{3}{7})$ $+ \frac{2}{49}\sqrt{943}e^2 \otimes e_5$	{1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578, 1234789, 12379, 12489, 129, 13456789, 135679, 145689, 1569, 2346, 2368, 2467, 2678, 345, 358, 457, 578}
941:389	$0, 0, 0, 0, 0, \frac{6}{49}\sqrt{46}e^{12}, \frac{1}{49}\sqrt{230}e^{13}, \frac{1}{49}\sqrt{230}e^{14},$ $\frac{6}{49}\sqrt{46}e^{26} + \frac{1}{49}\sqrt{230}e^{37} + \frac{1}{49}\sqrt{230}e^{48}$	$(-\frac{5}{49}, \frac{13}{49}, \frac{13}{49}, \frac{13}{49}, -\frac{33}{49}, \frac{8}{49}, \frac{8}{49}, \frac{8}{49}, \frac{3}{7})$ $+ \frac{2}{49}\sqrt{943}e^2 \otimes e_5$	{1234789, 12379, 129, 13456789, 135679, 1569, 2346, 2368, 2678, 345, 358, 578, 1234789, 12379, 129, 13456789, 135679, 1569, 2346, 2368, 2678, 345, 358, 578}
941:391	$0, 0, 0, 0, 0, -\frac{2}{111}\sqrt{1717}e^{12}, \frac{2}{111}\sqrt{707}e^{13}, \frac{1}{111}\sqrt{1010}e^{24},$ $\frac{1}{111}\sqrt{7070}e^{16} + \frac{2}{111}\sqrt{202}e^{37} + \frac{2}{111}\sqrt{202}e^{48}$	$(\frac{28}{111}, -\frac{10}{111}, \frac{3}{37}, \frac{28}{111}, -\frac{73}{111}, \frac{6}{37}, \frac{1}{3}, \frac{6}{37}, \frac{46}{111})$ $+ \frac{2}{111}\sqrt{4646}e^1 \otimes e_5$	{1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569, 1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569}
941:391	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{1717}e^{12}, \frac{2}{111}\sqrt{707}e^{13}, \frac{1}{111}\sqrt{1010}e^{24},$ $\frac{1}{111}\sqrt{7070}e^{16} + \frac{2}{111}\sqrt{202}e^{37} + \frac{2}{111}\sqrt{202}e^{48}$	$(\frac{28}{111}, -\frac{10}{111}, \frac{3}{37}, \frac{28}{111}, -\frac{73}{111}, \frac{6}{37}, \frac{1}{3}, \frac{6}{37}, \frac{46}{111})$ $+ \frac{2}{111}\sqrt{4646}e^1 \otimes e_5$	{1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569, 1346, 1368, 1467, 1678, 23456789, 235679, 245689, 2569}
941:391	$0, 0, 0, 0, 0, -\frac{2}{111}\sqrt{606}e^{12}, \frac{2}{111}\sqrt{707}e^{13}, \frac{1}{111}\sqrt{8282}e^{24},$ $\frac{1}{111}\sqrt{2222}e^{16} + \frac{2}{111}\sqrt{202}e^{37} + \frac{2}{111}\sqrt{2121}e^{48}$	$(\frac{28}{111}, -\frac{10}{111}, \frac{3}{37}, \frac{28}{111}, -\frac{73}{111}, \frac{6}{37}, \frac{1}{3}, \frac{6}{37}, \frac{46}{111})$ $+ \frac{2}{111}\sqrt{4646}e^4 \otimes e_5$	{1348, 135, 1478, 157, 23479, 235789, 249, 2589, 1348, 135, 1478, 157, 23479, 235789, 249, 2589}
941:391	$0, 0, 0, 0, 0, \frac{2}{111}\sqrt{606}e^{12}, \frac{2}{111}\sqrt{707}e^{13}, \frac{1}{111}\sqrt{8282}e^{24},$ $\frac{1}{111}\sqrt{2222}e^{16} + \frac{2}{111}\sqrt{202}e^{37} + \frac{2}{111}\sqrt{2121}e^{48}$	$(\frac{28}{111}, -\frac{10}{111}, \frac{3}{37}, \frac{28}{111}, -\frac{73}{111}, \frac{6}{37}, \frac{1}{3}, \frac{6}{37}, \frac{46}{111})$ $+ \frac{2}{111}\sqrt{4646}e^4 \otimes e_5$	{1348, 135, 1478, 157, 23479, 235789, 249, 2589, 1348, 135, 1478, 157, 23479, 235789, 249, 2589}
941:391	$0, 0, 0, 0, 0, -\frac{1}{57}\sqrt{377}e^{12}, \frac{1}{57}\sqrt{174}e^{13}, \frac{1}{57}\sqrt{290}e^{24},$ $\frac{4}{57}\sqrt{87}e^{16} + \frac{1}{19}\sqrt{145}e^{37} + \frac{1}{19}\sqrt{145}e^{48}$	$(-\frac{1}{19}, \frac{5}{57}, \frac{1}{57}, -\frac{1}{19}, 1, \frac{2}{57}, -\frac{2}{57}, \frac{2}{57}, -\frac{1}{57})$ $+ \frac{1}{57}\sqrt{5365}e^5 \otimes e_9$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}
941:391	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{377}e^{12}, \frac{1}{57}\sqrt{174}e^{13}, \frac{1}{57}\sqrt{290}e^{24},$ $\frac{4}{57}\sqrt{87}e^{16} + \frac{1}{19}\sqrt{145}e^{37} + \frac{1}{19}\sqrt{145}e^{48}$	$(-\frac{1}{19}, \frac{5}{57}, \frac{1}{57}, -\frac{1}{19}, 1, \frac{2}{57}, -\frac{2}{57}, \frac{2}{57}, -\frac{1}{57})$ $+ \frac{1}{57}\sqrt{5365}e^5 \otimes e_9$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}
941:391	$0, 0, 0, 0, 0, -\frac{4}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{2}e^{13}, \frac{2}{9}\sqrt{11}e^{24},$ $\frac{1}{9}\sqrt{10}e^{16} + \frac{1}{9}\sqrt{6}e^{37} + \frac{1}{9}\sqrt{6}e^{48}$	$(-\frac{4}{45}, \frac{22}{45}, \frac{1}{5}, -\frac{4}{45}, -\frac{28}{45}, \frac{2}{5}, \frac{1}{9}, \frac{2}{5}, \frac{14}{45})$ $+ \frac{1}{9}\sqrt{146}e^2 \otimes e_5$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
941:391	$0, 0, 0, 0, 0, \frac{4}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{2}e^{13}, \frac{2}{9}\sqrt{11}e^{24},$ $\frac{1}{9}\sqrt{10}e^{16} + \frac{1}{9}\sqrt{6}e^{37} + \frac{1}{9}\sqrt{6}e^{48}$	$(-\frac{4}{45}, \frac{22}{45}, \frac{1}{5}, -\frac{4}{45}, -\frac{28}{45}, \frac{2}{5}, \frac{1}{9}, \frac{2}{5}, \frac{14}{45})$ $+\frac{1}{9}\sqrt{146}e^2 \otimes e_5$	{1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789, 1345678, 13567, 14568, 156, 23469, 23689, 24679, 26789}
941:397	$0, 0, 0, 0, 0, \frac{5}{29}\sqrt{15}e^{12}, -\frac{5}{29}\sqrt{15}e^{13}, \frac{5}{29}\sqrt{15}e^{14},$ $\frac{5}{29}\sqrt{17}e^{15} + \frac{5}{58}\sqrt{22}e^{26} + \frac{5}{58}\sqrt{22}e^{37} + \frac{5}{58}\sqrt{22}e^{48}$	$(\frac{15}{29}, -\frac{5}{29}, -\frac{5}{29}, -\frac{5}{29}, -\frac{10}{29}, \frac{10}{29}, \frac{10}{29}, \frac{10}{29}, \frac{5}{29})$ $+\frac{5}{58}\sqrt{190}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 357, 5, 2345678, 23567, 24568, 256, 357, 5}
941:397	$0, 0, 0, 0, 0, \frac{5}{29}\sqrt{15}e^{12}, \frac{5}{29}\sqrt{15}e^{13}, \frac{5}{29}\sqrt{15}e^{14},$ $\frac{5}{29}\sqrt{17}e^{15} + \frac{5}{58}\sqrt{22}e^{26} + \frac{5}{58}\sqrt{22}e^{37} + \frac{5}{58}\sqrt{22}e^{48}$	$(\frac{15}{29}, -\frac{5}{29}, -\frac{5}{29}, -\frac{5}{29}, -\frac{10}{29}, \frac{10}{29}, \frac{10}{29}, \frac{10}{29}, \frac{5}{29})$ $+\frac{5}{58}\sqrt{190}e^1 \otimes e_5$	{2345678, 23567, 256, 5, 2345678, 23567, 256, 5}
941:398	$0, 0, 0, 0, 0, \frac{10}{21}\sqrt{5}e^{12}, -\frac{5}{21}\sqrt{5}e^{13}, \frac{5}{21}\sqrt{5}e^{14},$ $\frac{5}{21}\sqrt{7}e^{16} + \frac{10}{21}\sqrt{2}e^{25} + \frac{5}{21}\sqrt{2}e^{37} + \frac{5}{21}\sqrt{2}e^{48}$	$(-\frac{5}{21}, \frac{5}{7}, \frac{5}{21}, \frac{5}{21}, -\frac{10}{21}, \frac{10}{21}, 0, 0, \frac{5}{21})$ $+\frac{5}{21}\sqrt{35}e^2 \otimes e_5$	{1345678, 13567, 156, 1345678, 13567, 156}
941:398	$0, 0, 0, 0, 0, \frac{10}{21}\sqrt{5}e^{12}, \frac{5}{21}\sqrt{5}e^{13}, \frac{5}{21}\sqrt{5}e^{14},$ $\frac{5}{21}\sqrt{7}e^{16} + \frac{10}{21}\sqrt{2}e^{25} + \frac{5}{21}\sqrt{2}e^{37} + \frac{5}{21}\sqrt{2}e^{48}$	$(-\frac{5}{21}, \frac{5}{7}, \frac{5}{21}, \frac{5}{21}, -\frac{10}{21}, \frac{10}{21}, 0, 0, \frac{5}{21})$ $+\frac{5}{21}\sqrt{35}e^2 \otimes e_5$	{1345678, 13567, 156, 1345678, 13567, 156}
941:401	$0, 0, 0, 0, 0, -\frac{1}{10}\sqrt{70}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, \frac{1}{5}\sqrt{5}e^{24},$ $\frac{1}{2}\sqrt{2}e^{15} + \frac{1}{2}e^{26} + \frac{1}{10}\sqrt{15}e^{37} + \frac{1}{10}\sqrt{15}e^{48}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{2}{5}, \frac{2}{5}, \frac{2}{5}, 0, \frac{1}{5})$ $+\frac{1}{10}\sqrt{165}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 2345678, 23567, 24568, 256}
941:401	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{70}e^{12}, \frac{1}{5}\sqrt{15}e^{13}, \frac{1}{5}\sqrt{5}e^{24},$ $\frac{1}{2}\sqrt{2}e^{15} + \frac{1}{2}e^{26} + \frac{1}{10}\sqrt{15}e^{37} + \frac{1}{10}\sqrt{15}e^{48}$	$(\frac{3}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, -\frac{2}{5}, \frac{2}{5}, \frac{2}{5}, 0, \frac{1}{5})$ $+\frac{1}{10}\sqrt{165}e^1 \otimes e_5$	{2345678, 23567, 24568, 256, 2345678, 23567, 24568, 256}
941:403	$0, 0, 0, 0, 0, \frac{5}{84}\sqrt{30}e^{12}, \frac{25}{42}\sqrt{3}e^{13}, \frac{5}{21}\sqrt{5}e^{24},$ $\frac{5}{84}\sqrt{102}e^{17} + \frac{5}{84}\sqrt{2}e^{26} + \frac{5}{14}\sqrt{3}e^{35} + \frac{5}{84}\sqrt{42}e^{48}$	$(-\frac{5}{21}, \frac{5}{21}, \frac{5}{7}, 0, -\frac{10}{21}, 0, \frac{10}{21}, \frac{5}{21}, \frac{5}{21})$ $+\frac{25}{84}\sqrt{22}e^3 \otimes e_5$	{14578, 157}
941:439	$0, 0, 0, 0, 0, \frac{28}{3947}\sqrt{3714}e^{12}, \frac{4}{3947}\sqrt{92231}e^{13}, \frac{4}{3947}\sqrt{152893}e^{45},$ $\frac{4}{3947}\sqrt{179510}e^{17} + \frac{4}{3947}\sqrt{88517}e^{26} + \frac{8}{3947}\sqrt{225935}e^{48}$	$(\frac{588}{3947}, \frac{590}{3947}, \frac{592}{3947}, \frac{2240}{3947}, -\frac{2712}{3947}, \frac{1178}{3947}, \frac{1180}{3947}, -\frac{472}{3947}, \frac{1768}{3947})$ $+\frac{4}{3947}\sqrt{1984514}e^4 \otimes e_5$	{12348, 13468, 25689, 589}
941:440	$0, 0, 0, 0, 0, -\frac{3}{287}\sqrt{1086}e^{12}, \frac{3}{287}\sqrt{1086}e^{13}, \frac{6}{287}\sqrt{362}e^{45},$ $\frac{5}{287}\sqrt{362}e^{26} + \frac{5}{287}\sqrt{362}e^{37} + \frac{4}{287}\sqrt{4706}e^{48}$	$(\frac{27}{287}, \frac{53}{287}, \frac{53}{287}, \frac{165}{287}, -\frac{197}{287}, \frac{80}{287}, \frac{80}{287}, -\frac{32}{287}, \frac{19}{41})$ $+\frac{2}{287}\sqrt{42173}e^4 \otimes e_5$	{12348, 12478, 14678, 2356789, 25689, 589, 12348, 12478, 14678, 2356789, 25689, 589}
941:440	$0, 0, 0, 0, 0, \frac{3}{287}\sqrt{1086}e^{12}, \frac{3}{287}\sqrt{1086}e^{13}, \frac{6}{287}\sqrt{362}e^{45},$ $\frac{5}{287}\sqrt{362}e^{26} + \frac{5}{287}\sqrt{362}e^{37} + \frac{4}{287}\sqrt{4706}e^{48}$	$(\frac{27}{287}, \frac{53}{287}, \frac{53}{287}, \frac{165}{287}, -\frac{197}{287}, \frac{80}{287}, \frac{80}{287}, -\frac{32}{287}, \frac{19}{41})$ $+\frac{2}{287}\sqrt{42173}e^4 \otimes e_5$	{12348, 12478, 14678, 2356789, 25689, 589, 12348, 12478, 14678, 2356789, 25689, 589}
95:1	$0, 0, 0, 0, 0, \frac{6}{79}\sqrt{19}e^{12}, \frac{6}{79}\sqrt{22}e^{13}, \frac{6}{79}\sqrt{10}e^{23}, \frac{6}{79}\sqrt{22}e^{14},$ $\frac{6}{79}\sqrt{10}e^{24}$	$(-\frac{18}{79}, \frac{6}{79}, \frac{11}{79}, \frac{11}{79}, -\frac{12}{79}, -\frac{7}{79}, \frac{17}{79}, -\frac{7}{79}, \frac{17}{79})$ $+\frac{36}{79}e^3 \otimes e_8 - \frac{36}{79}e^4 \otimes e_6$	{12345, 1256789, 13479, 168, 2369, 3567}
95:1	$0, 0, 0, 0, 0, \frac{8}{213}\sqrt{37}e^{12}, \frac{8}{213}\sqrt{23}e^{13}, \frac{8}{213}\sqrt{74}e^{23}, \frac{8}{213}\sqrt{74}e^{14},$ $\frac{8}{213}\sqrt{23}e^{24}$	$(\frac{28}{213}, \frac{28}{213}, -\frac{32}{213}, -\frac{32}{213}, \frac{56}{213}, -\frac{4}{213}, -\frac{4}{213}, -\frac{4}{213}, -\frac{4}{213})$ $+\frac{8}{213}\sqrt{97}e^1 \otimes e_7 + \frac{8}{213}\sqrt{97}e^2 \otimes e_8$	{123469, 1589, 3478}
95:1	$0, 0, 0, 0, 0, \frac{1}{833}\sqrt{65658}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{1}{833}\sqrt{87978}e^{23}, \frac{12}{833}\sqrt{310}e^{14},$ $\frac{6}{833}\sqrt{1581}e^{24}$	$(\frac{87}{833}, -\frac{186}{833}, \frac{87}{833}, \frac{107}{833}, -\frac{99}{833}, \frac{174}{833}, -\frac{99}{833}, \frac{194}{833}, -\frac{79}{833})$ $+\frac{3}{833}\sqrt{14446}e^3 \otimes e_5 + \frac{3}{833}\sqrt{16926}e^1 \otimes e_7$	{12349, 1238, 1456, 15689, 245789, 257, 34678, 3679}
95:1	$0, 0, 0, 0, 0, \frac{1}{833}\sqrt{65658}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{1}{833}\sqrt{87978}e^{23}, \frac{12}{833}\sqrt{310}e^{14},$ $\frac{6}{833}\sqrt{1581}e^{24}$	$(\frac{87}{833}, -\frac{186}{833}, \frac{87}{833}, \frac{107}{833}, -\frac{99}{833}, \frac{174}{833}, -\frac{99}{833}, \frac{194}{833}, -\frac{79}{833})$ $-\frac{3}{833}\sqrt{14446}e^3 \otimes e_5 + \frac{3}{833}\sqrt{16926}e^1 \otimes e_7$	{12349, 1238, 1456, 15689, 245789, 257, 34678, 3679}
95:1	$0, 0, 0, 0, 0, \frac{1}{1069}\sqrt{29946}e^{12}, \frac{21}{1069}\sqrt{782}e^{13}, \frac{1}{1069}\sqrt{10626}e^{23},$ $\frac{4}{1069}\sqrt{2415}e^{14}, \frac{56}{1069}\sqrt{69}e^{24}$	$(-\frac{248}{1069}, -\frac{64}{1069}, \frac{171}{1069}, \frac{406}{1069}, -\frac{312}{1069}, -\frac{77}{1069}, \frac{107}{1069}, \frac{158}{1069}, \frac{342}{1069})$ $+\frac{21}{1069}\sqrt{874}e^3 \otimes e_5 + \frac{276}{1069}\sqrt{7}e^4 \otimes e_6$	{125689, 1349, 23679, 45789}
95:1	$0, 0, 0, 0, 0, \frac{2}{555}\sqrt{451}e^{12}, \frac{1}{555}\sqrt{3854}e^{13}, \frac{2}{555}\sqrt{4469}e^{23}, \frac{2}{555}\sqrt{4469}e^{14},$ $\frac{2}{555}\sqrt{2542}e^{24}$	$(\frac{10}{111}, -\frac{2}{37}, \frac{13}{185}, -\frac{52}{555}, \frac{4}{111}, \frac{89}{555}, \frac{3}{185}, -\frac{2}{555}, -\frac{82}{555})$ $+\frac{1}{555}\sqrt{20582}e^1 \otimes e_7 + \frac{1}{555}\sqrt{5371}e^3 \otimes e_8$	{123459, 1689, 24789, 35679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
95:1	$0, 0, 0, 0, \frac{4}{43}\sqrt{3}e^{12}, \frac{10}{43}\sqrt{3}e^{13}, \frac{3}{43}\sqrt{14}e^{23}, \frac{2}{43}\sqrt{78}e^{14}, \frac{1}{43}\sqrt{102}e^{24}$	$(\frac{22}{215}, -\frac{7}{215}, \frac{51}{215}, -\frac{46}{215}, \frac{3}{43}, \frac{73}{215}, \frac{44}{215}, -\frac{24}{215}, -\frac{53}{215}) + \frac{3}{43}\sqrt{62}e^1 \otimes e_9 + \frac{3}{43}\sqrt{66}e^3 \otimes e_8$	{12345, 168, 2369, 4589}
95:1	$0, 0, 0, 0, \frac{2}{69}\sqrt{51}e^{12}, \frac{2}{69}\sqrt{6}e^{13}, \frac{2}{23}\sqrt{10}e^{23}, \frac{2}{23}\sqrt{10}e^{14}, \frac{2}{69}\sqrt{6}e^{24}$	$(-\frac{2}{23}, -\frac{2}{23}, \frac{3}{23}, \frac{3}{23}, -\frac{4}{23}, \frac{1}{23}, \frac{1}{23}, \frac{1}{23}, \frac{1}{23}) + \frac{8}{69}\sqrt{6}e^3 \otimes e_8 + \frac{8}{69}\sqrt{6}e^4 \otimes e_7$	{1234569, 12578, 3579}
95:1	$0, 0, 0, 0, \frac{2}{347}\sqrt{7917}e^{12}, \frac{1}{347}\sqrt{10374}e^{13}, \frac{2}{347}\sqrt{15834}e^{23}, \frac{2}{347}\sqrt{15834}e^{14}, \frac{78}{347}\sqrt{7}e^{24}$	$(\frac{154}{347}, -\frac{40}{347}, -\frac{79}{347}, \frac{18}{347}, \frac{114}{347}, \frac{75}{347}, -\frac{119}{347}, \frac{172}{347}, -\frac{22}{347}) + \frac{3}{347}\sqrt{17654}e^1 \otimes e_7$	{12349, 1238, 1456, 15689, 245789, 257, 34678, 3679}
95:1	$0, 0, 0, 0, \frac{4}{67}\sqrt{42}e^{12}, \frac{4}{67}\sqrt{57}e^{13}, \frac{12}{67}e^{23}, \frac{4}{67}\sqrt{3}e^{14}, \frac{4}{67}\sqrt{30}e^{24}$	$(\frac{8}{67}, -\frac{14}{67}, \frac{18}{67}, -\frac{2}{67}, -\frac{6}{67}, \frac{26}{67}, \frac{4}{67}, \frac{6}{67}, -\frac{16}{67}) + \frac{12}{67}\sqrt{11}e^1 \otimes e_9 + \frac{36}{67}e^3 \otimes e_5$	{123478, 1567, 2589, 3469}
95:1	$0, 0, 0, 0, \frac{4}{325}\sqrt{651}e^{12}, \frac{1}{325}\sqrt{11811}e^{13}, \frac{1}{325}\sqrt{11811}e^{23}, \frac{3}{325}\sqrt{310}e^{14}, \frac{3}{325}\sqrt{310}e^{24}$	$(\frac{9}{65}, \frac{9}{65}, -\frac{93}{325}, \frac{4}{325}, \frac{18}{65}, -\frac{48}{325}, -\frac{48}{325}, \frac{49}{325}, \frac{49}{325}) + \frac{3}{325}\sqrt{3007}e^1 \otimes e_7 + \frac{3}{325}\sqrt{3007}e^2 \otimes e_6$	{1234, 12389, 14569, 1568, 346789, 367}
95:1	$0, 0, 0, 0, \frac{4}{325}\sqrt{651}e^{12}, \frac{1}{325}\sqrt{11811}e^{13}, \frac{1}{325}\sqrt{11811}e^{23}, \frac{3}{325}\sqrt{310}e^{14}, \frac{3}{325}\sqrt{310}e^{24}$	$(\frac{9}{65}, \frac{9}{65}, -\frac{93}{325}, \frac{4}{325}, \frac{18}{65}, -\frac{48}{325}, -\frac{48}{325}, \frac{49}{325}, \frac{49}{325}) + \frac{3}{325}\sqrt{3007}e^1 \otimes e_7 - \frac{3}{325}\sqrt{3007}e^2 \otimes e_6$	{1234, 12389, 14569, 1568, 346789, 367}
95:1	$0, 0, 0, 0, \frac{6}{79}\sqrt{19}e^{12}, \frac{6}{79}\sqrt{22}e^{13}, \frac{6}{79}\sqrt{10}e^{23}, \frac{6}{79}\sqrt{22}e^{14}, \frac{6}{79}\sqrt{10}e^{24}$	$(-\frac{18}{79}, \frac{6}{79}, \frac{11}{79}, \frac{11}{79}, -\frac{12}{79}, -\frac{7}{79}, \frac{17}{79}, -\frac{7}{79}, \frac{17}{79}) + \frac{36}{79}e^3 \otimes e_8 + \frac{36}{79}e^4 \otimes e_6$	{12345, 1256789, 13479, 168, 2369, 3567}
95:1	$0, 0, 0, 0, \frac{1}{343}\sqrt{57270}e^{12}, \frac{1}{343}\sqrt{48990}e^{13}, \frac{1}{343}\sqrt{48990}e^{23}, \frac{12}{343}\sqrt{115}e^{14}, \frac{12}{343}\sqrt{115}e^{24}$	$(-\frac{72}{343}, -\frac{72}{343}, \frac{201}{343}, \frac{106}{343}, -\frac{144}{343}, \frac{129}{343}, \frac{129}{343}, \frac{34}{343}, \frac{34}{343}) + \frac{15}{343}\sqrt{874}e^3 \otimes e_5$	{123, 123489, 14568, 1569, 3467, 36789}
95:1	$0, 0, 0, 0, \frac{4}{43}\sqrt{3}e^{12}, \frac{2}{43}\sqrt{78}e^{13}, \frac{10}{43}\sqrt{3}e^{23}, \frac{1}{43}\sqrt{102}e^{14}, \frac{3}{43}\sqrt{14}e^{24}$	$(\frac{11}{43}, -\frac{8}{43}, \frac{4}{43}, -\frac{3}{43}, \frac{3}{43}, \frac{15}{43}, -\frac{4}{43}, \frac{8}{43}, -\frac{11}{43}) + \frac{3}{43}\sqrt{62}e^1 \otimes e_7 + \frac{3}{43}\sqrt{66}e^3 \otimes e_9$	{12345, 1469, 279, 3567}
95:1	$0, 0, 0, 0, \frac{6}{169}\sqrt{259}e^{12}, \frac{6}{169}\sqrt{154}e^{13}, \frac{42}{169}\sqrt{10}e^{23}, \frac{42}{169}\sqrt{10}e^{14}, \frac{6}{169}\sqrt{182}e^{24}$	$(-\frac{30}{169}, \frac{18}{169}, \frac{77}{169}, -\frac{19}{169}, -\frac{12}{169}, \frac{47}{169}, \frac{95}{169}, -\frac{49}{169}, -\frac{1}{169}) + \frac{72}{169}\sqrt{7}e^3 \otimes e_8$	{123459, 125678, 1347, 1689, 236, 24789, 35679, 458}
95:2	$0, 0, 0, 0, \frac{7}{681}\sqrt{122}e^{12}, \frac{7}{681}\sqrt{542}e^{13}, \frac{7}{681}\sqrt{542}e^{24}, \frac{7}{681}\sqrt{298}e^{34}, \frac{14}{681}\sqrt{11}e^{14} + \frac{14}{681}\sqrt{11}e^{23}$	$(\frac{56}{681}, \frac{56}{681}, -\frac{49}{681}, -\frac{49}{681}, \frac{112}{681}, \frac{7}{681}, \frac{7}{681}, -\frac{98}{681}, \frac{7}{681}) + \frac{7}{227}\sqrt{70}e^1 \otimes e_7 + \frac{7}{227}\sqrt{70}e^2 \otimes e_6$	{123489, 34678}
95:2	$0, 0, 0, 0, \frac{14}{141}\sqrt{17}e^{12}, \frac{7}{141}\sqrt{26}e^{13}, \frac{14}{141}\sqrt{17}e^{24}, \frac{7}{141}\sqrt{26}e^{34}, \frac{14}{141}\sqrt{2}e^{14} + \frac{14}{141}\sqrt{2}e^{23}$	$(\frac{35}{141}, \frac{14}{141}, -\frac{7}{141}, -\frac{28}{141}, \frac{49}{141}, \frac{28}{141}, -\frac{14}{141}, -\frac{35}{141}, \frac{7}{141}) + \frac{7}{47}\sqrt{14}e^1 \otimes e_7 + \frac{7}{47}\sqrt{14}e^2 \otimes e_8$	{12349, 1358}
95:2	$0, 0, 0, 0, \frac{2}{21}\sqrt{14}e^{12}, \frac{4}{21}\sqrt{14}e^{13}, \frac{4}{21}\sqrt{14}e^{24}, \frac{4}{21}\sqrt{7}e^{34}, \frac{4}{21}\sqrt{7}e^{14} + \frac{2}{21}\sqrt{35}e^{23}$	$(\frac{1}{3}, -\frac{2}{21}, \frac{4}{21}, -\frac{5}{21}, \frac{5}{21}, \frac{11}{21}, -\frac{1}{3}, -\frac{1}{21}, \frac{2}{21}) + \frac{2}{7}\sqrt{14}e^1 \otimes e_7$	{1246, 15689, 2578, 479}
95:2	$0, 0, 0, 0, \frac{14}{687}\sqrt{167}e^{12}, \frac{14}{687}\sqrt{62}e^{13}, \frac{14}{687}\sqrt{167}e^{24}, \frac{14}{687}\sqrt{62}e^{34}, \frac{28}{687}\sqrt{34}e^{14} + \frac{14}{687}\sqrt{179}e^{23}$	$(\frac{7}{687}, -\frac{98}{687}, \frac{112}{687}, \frac{7}{687}, -\frac{91}{687}, \frac{119}{687}, -\frac{91}{687}, \frac{119}{687}, \frac{14}{687}) + \frac{14}{229}\sqrt{35}e^1 \otimes e_7 + \frac{14}{229}\sqrt{35}e^4 \otimes e_5$	{12468, 1569, 257}
95:2	$0, 0, 0, 0, \frac{14}{687}\sqrt{167}e^{12}, \frac{14}{687}\sqrt{62}e^{13}, \frac{14}{687}\sqrt{167}e^{24}, \frac{14}{687}\sqrt{62}e^{34}, \frac{28}{687}\sqrt{34}e^{14} + \frac{14}{687}\sqrt{179}e^{23}$	$(\frac{7}{687}, -\frac{98}{687}, \frac{112}{687}, \frac{7}{687}, -\frac{91}{687}, \frac{119}{687}, -\frac{91}{687}, \frac{119}{687}, \frac{14}{687}) + \frac{14}{229}\sqrt{35}e^1 \otimes e_7 - \frac{14}{229}\sqrt{35}e^4 \otimes e_5$	{12468, 1569, 257}
94:1	$0, 0, 0, 0, 0, \frac{10}{47}\sqrt{2}e^{12}, \frac{10}{47}\sqrt{2}e^{13}, \frac{5}{47}\sqrt{26}e^{23}, \frac{5}{47}\sqrt{2}e^{14}$	$(-\frac{2}{47}, \frac{11}{47}, -\frac{12}{47}, \frac{6}{47}, \frac{24}{47}, \frac{9}{47}, -\frac{14}{47}, -\frac{1}{47}, \frac{4}{47}) + \frac{5}{47}\sqrt{38}e^5 \otimes e_8 + \frac{5}{47}\sqrt{46}e^2 \otimes e_7$	{123459, 1235, 145679, 1567, 2468, 2689, 3478, 3789}
94:1	$0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{69637}e^{12}, \frac{1}{1187}\sqrt{199682}e^{13}, \frac{10}{1187}\sqrt{839}e^{23}, \frac{1}{1187}\sqrt{236598}e^{14}$	$(-\frac{291}{1187}, \frac{19}{1187}, \frac{66}{1187}, \frac{567}{1187}, \frac{614}{1187}, -\frac{272}{1187}, -\frac{225}{1187}, \frac{85}{1187}, \frac{276}{1187}) + \frac{1}{1187}\sqrt{803762}e^5 \otimes e_7 + \frac{1}{1187}\sqrt{961494}e^4 \otimes e_6$	{123458, 1247, 13569, 16789, 23678, 256, 3479, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:1	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{3162}e^{12}, \frac{2}{229}\sqrt{2091}e^{13}, \frac{6}{229}\sqrt{238}e^{23}, \frac{6}{229}\sqrt{238}e^{14}$	$(-\frac{40}{229}, \frac{43}{229}, \frac{22}{229}, -\frac{19}{229}, \frac{105}{229}, \frac{3}{229}, -\frac{18}{229}, \frac{65}{229}, -\frac{59}{229})$ $+\frac{2}{229}\sqrt{4182}e^5 \otimes e_6 + \frac{2}{229}\sqrt{1581}e^2 \otimes e_9$	{123457, 12458, 136789, 169, 236, 2678, 34589, 4579}
94:1	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{66}e^{13}, \frac{4}{23}\sqrt{3}e^{23}, \frac{6}{23}e^{14}$	$(-\frac{6}{23}, \frac{3}{23}, \frac{3}{23}, \frac{5}{23}, \frac{2}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{6}{23}, -\frac{1}{23})$ $+\frac{3}{23}\sqrt{14}e^2 \otimes e_7 - \frac{3}{23}\sqrt{14}e^3 \otimes e_6$	{123, 123459, 12349, 1235, 145679, 14679, 1567, 167, 24568, 2468, 25689, 2689}
94:1	$0, 0, 0, 0, 0, \frac{4}{1369}\sqrt{3437}e^{12}, \frac{2}{1369}\sqrt{69231}e^{13}, \frac{1}{1369}\sqrt{374142}e^{23}, \frac{6}{1369}\sqrt{5401}e^{14}$	$(-\frac{280}{1369}, \frac{368}{1369}, \frac{157}{1369}, -\frac{54}{1369}, \frac{144}{1369}, \frac{88}{1369}, -\frac{123}{1369}, \frac{525}{1369}, -\frac{334}{1369})$ $+\frac{26}{1369}\sqrt{982}e^3 \otimes e_9 + \frac{3}{1369}\sqrt{59902}e^2 \otimes e_7$	{123456, 12346, 1579, 179, 24589, 2489, 35678, 3678}
94:1	$0, 0, 0, 0, 0, \frac{20}{833}\sqrt{93}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{8}{833}\sqrt{930}e^{23}, \frac{12}{833}\sqrt{310}e^{14}$	$(\frac{87}{833}, \frac{87}{833}, -\frac{186}{833}, -\frac{46}{833}, \frac{227}{833}, \frac{174}{833}, -\frac{99}{833}, -\frac{99}{833}, \frac{41}{833})$ $+\frac{6}{833}\sqrt{1581}e^5 \otimes e_9 + \frac{6}{833}\sqrt{2821}e^2 \otimes e_7 + \frac{6}{833}\sqrt{3441}e^1 \otimes e_8$	{12345, 1239, 14567, 1679, 24689, 2568, 34789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{20}{833}\sqrt{93}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{8}{833}\sqrt{930}e^{23}, \frac{12}{833}\sqrt{310}e^{14}$	$(\frac{87}{833}, \frac{87}{833}, -\frac{186}{833}, -\frac{46}{833}, \frac{227}{833}, \frac{174}{833}, -\frac{99}{833}, -\frac{99}{833}, \frac{41}{833})$ $+\frac{6}{833}\sqrt{1581}e^5 \otimes e_9 - \frac{6}{833}\sqrt{2821}e^2 \otimes e_7 + \frac{6}{833}\sqrt{3441}e^1 \otimes e_8$	{12345, 1239, 14567, 1679, 24689, 2568, 34789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{1}{44}\sqrt{429}e^{12}, \frac{1}{44}\sqrt{429}e^{13}, \frac{1}{44}\sqrt{858}e^{23}, \frac{1}{44}\sqrt{858}e^{14}$	$(\frac{1}{2}, -\frac{17}{88}, -\frac{17}{88}, -\frac{3}{44}, \frac{2}{11}, \frac{27}{88}, \frac{27}{88}, -\frac{17}{44}, \frac{19}{44})$ $+\frac{3}{22}\sqrt{78}e^1 \otimes e_8$	{1234, 12345, 12359, 1239, 14567, 1467, 15679, 1679, 245689, 24689, 2568, 268}
94:1	$0, 0, 0, 0, 0, \frac{1}{475}\sqrt{55430}e^{12}, \frac{2}{475}\sqrt{3133}e^{13}, \frac{2}{475}\sqrt{6266}e^{23}, \frac{2}{475}\sqrt{6266}e^{14}$	$(\frac{104}{475}, -\frac{113}{475}, -\frac{24}{475}, \frac{2}{475}, \frac{232}{475}, -\frac{9}{475}, \frac{16}{95}, -\frac{137}{475}, \frac{106}{475})$ $+\frac{2}{475}\sqrt{21449}e^5 \otimes e_6 + \frac{9}{475}\sqrt{1446}e^1 \otimes e_8$	{12345, 12359, 1467, 1679, 24689, 268, 345789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2010}e^{12}, \frac{2}{169}\sqrt{2747}e^{13}, \frac{4}{169}\sqrt{1005}e^{23}, \frac{4}{169}\sqrt{1005}e^{14}$	$(-\frac{22}{169}, \frac{79}{169}, \frac{8}{169}, -\frac{33}{169}, \frac{27}{169}, \frac{57}{169}, -\frac{14}{169}, \frac{87}{169}, -\frac{55}{169})$ $+\frac{2}{169}\sqrt{9514}e^2 \otimes e_9$	{123457, 12347, 12458, 1248, 1356789, 136789, 1569, 169, 2356, 236, 25678, 2678, 34589, 3489, 4579, 479}
94:1	$0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{12}, \frac{3}{40}\sqrt{123}e^{13}, \frac{1}{40}\sqrt{574}e^{23}, \frac{1}{40}\sqrt{574}e^{14}$	$(\frac{1}{2}, -\frac{1}{80}, -\frac{1}{80}, -\frac{21}{40}, \frac{3}{20}, \frac{39}{80}, \frac{39}{80}, -\frac{1}{40}, -\frac{1}{40})$ $+\frac{1}{20}\sqrt{697}e^1 \otimes e_4$	{12358, 1238, 1257, 127, 15678, 1678, 2345678, 234678, 2456, 246, 458, 48}
94:1	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{1}{67}\sqrt{987}e^{13}, \frac{3}{67}\sqrt{47}e^{23}, \frac{2}{67}\sqrt{94}e^{14}$	$(\frac{33}{134}, \frac{3}{134}, \frac{3}{134}, -\frac{61}{134}, \frac{33}{67}, \frac{18}{67}, \frac{18}{67}, \frac{3}{67}, -\frac{14}{67})$ $+\frac{1}{67}\sqrt{2397}e^5 \otimes e_9 + \frac{2}{67}\sqrt{799}e^1 \otimes e_4$	{12389, 1279, 16789, 2346789, 2469, 489}
94:1	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{11055}e^{12}, \frac{1}{304}\sqrt{11055}e^{13}, \frac{1}{152}\sqrt{4422}e^{23}, \frac{3}{304}\sqrt{1474}e^{14}$	$(-\frac{51}{304}, \frac{231}{608}, -\frac{69}{608}, \frac{121}{304}, -\frac{5}{19}, \frac{129}{608}, -\frac{9}{32}, \frac{81}{304}, \frac{35}{152})$ $+\frac{15}{152}\sqrt{67}e^2 \otimes e_7 + \frac{3}{304}\sqrt{5226}e^4 \otimes e_5$	{1234, 12359, 1467, 15679, 24689, 2568, 34789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{3}{61}\sqrt{51}e^{12}, \frac{3}{61}\sqrt{51}e^{13}, \frac{2}{61}\sqrt{34}e^{23}, \frac{1}{61}\sqrt{255}e^{14}$	$(\frac{7}{61}, \frac{11}{61}, -\frac{13}{61}, -\frac{10}{61}, \frac{15}{61}, \frac{18}{61}, -\frac{6}{61}, -\frac{2}{61}, -\frac{3}{61})$ $+\frac{1}{61}\sqrt{357}e^5 \otimes e_8 + \frac{2}{61}\sqrt{187}e^1 \otimes e_4 + \frac{4}{61}\sqrt{51}e^2 \otimes e_7$	{1235, 1567, 2468, 3478}
94:1	$0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{2}{499}\sqrt{18291}e^{13}, \frac{4}{499}\sqrt{273}e^{23}, \frac{2}{499}\sqrt{38766}e^{14}$	$(-\frac{130}{499}, -\frac{59}{499}, \frac{148}{499}, \frac{357}{499}, \frac{85}{499}, -\frac{189}{499}, \frac{18}{499}, \frac{89}{499}, \frac{227}{499})$ $+\frac{6}{499}\sqrt{12558}e^4 \otimes e_6$	{123457, 12347, 12458, 1248, 1356789, 136789, 1569, 169, 2356, 236, 25678, 2678, 34589, 3489, 4579, 479}
94:1	$0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{28}\sqrt{7}e^{23}, \frac{9}{112}\sqrt{14}e^{14}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{3}{112}, \frac{5}{56}, \frac{31}{112}, -\frac{1}{14}, -\frac{15}{112}, \frac{13}{112}, -\frac{1}{14})$ $-\frac{3}{112}\sqrt{134}e^4 \otimes e_6 + \frac{3}{112}\sqrt{190}e^2 \otimes e_9 + \frac{3}{56}\sqrt{23}e^5 \otimes e_8$	{123457, 1248, 136789, 1569, 2356, 2678, 3489, 4579}
94:1	$0, 0, 0, 0, 0, \frac{23}{628}\sqrt{35}e^{12}, \frac{23}{628}\sqrt{35}e^{13}, \frac{1}{314}\sqrt{14973}e^{23}, \frac{1}{628}\sqrt{67298}e^{14}$	$(-\frac{45}{628}, \frac{73}{1256}, -\frac{159}{1256}, \frac{59}{314}, \frac{117}{314}, -\frac{17}{1256}, -\frac{249}{628}, -\frac{43}{628}, \frac{73}{628})$ $+\frac{1}{314}\sqrt{22379}e^4 \otimes e_8 + \frac{1}{314}\sqrt{9338}e^2 \otimes e_7 + \frac{1}{628}\sqrt{59570}e^5 \otimes e_9$	{12689, 13789, 2349, 4679}
94:1	$0, 0, 0, 0, 0, \frac{5}{1601}\sqrt{15054}e^{12}, \frac{4}{1601}\sqrt{579}e^{13}, \frac{2}{1601}\sqrt{59637}e^{23}, \frac{2}{1601}\sqrt{123906}e^{14}$	$(\frac{190}{1601}, -\frac{361}{1601}, -\frac{28}{1601}, \frac{408}{1601}, \frac{170}{1601}, -\frac{171}{1601}, \frac{162}{1601}, -\frac{389}{1601}, \frac{598}{1601})$ $+\frac{3}{1601}\sqrt{98430}e^1 \otimes e_8 + \frac{6}{1601}\sqrt{21423}e^4 \otimes e_6$	{123457, 12347, 1569, 169, 25678, 2678, 34589, 3489}
94:1	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{645}e^{12}, \frac{1}{67}\sqrt{731}e^{13}, \frac{2}{67}\sqrt{258}e^{23}, \frac{3}{67}\sqrt{129}e^{14}$	$(-\frac{5}{67}, -\frac{12}{67}, \frac{4}{67}, \frac{26}{67}, \frac{35}{67}, -\frac{17}{67}, -\frac{1}{67}, -\frac{8}{67}, \frac{21}{67})$ $+\frac{1}{67}\sqrt{2365}e^5 \otimes e_8 + \frac{8}{67}\sqrt{43}e^4 \otimes e_6$	{123457, 1248, 136789, 1569, 2356, 2678, 3489, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:1	$0, 0, 0, 0, 0, \frac{12}{593}\sqrt{330}e^{12}, \frac{220}{593}e^{13}, \frac{2}{593}\sqrt{330}e^{23}, \frac{2}{593}\sqrt{330}e^{14}$	$(\frac{52}{593}, \frac{104}{593}, -\frac{59}{593}, -\frac{168}{593}, \frac{213}{593}, \frac{156}{593}, -\frac{7}{593}, \frac{45}{593}, -\frac{116}{593})$ $+ \frac{110}{593}\sqrt{6}e^5 \otimes e_7 + \frac{2}{593}\sqrt{17710}e^2 \otimes e_9 + \frac{2}{593}\sqrt{24090}e^1 \otimes e_4$	{12358, 127, 234678, 2456}
94:1	$0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{142923}e^{12}, \frac{1}{1315}\sqrt{189222}e^{13}, \frac{1}{1315}\sqrt{57706}e^{23}, \frac{7}{1315}\sqrt{4026}e^{14}$	$(\frac{65}{263}, \frac{227}{1315}, -\frac{58}{1315}, -\frac{346}{1315}, -\frac{444}{1315}, \frac{552}{1315}, \frac{267}{1315}, \frac{169}{1315}, -\frac{21}{1315})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_4 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_5$	{123, 1278, 13568, 1567, 23467, 2468, 34578, 45}
94:1	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{12}\sqrt{15}e^{13}, \frac{1}{6}\sqrt{3}e^{23}, \frac{1}{12}\sqrt{6}e^{14}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{6}, \frac{1}{6}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{12})$ $+ \frac{1}{12}\sqrt{30}e^2 \otimes e_7 + \frac{1}{12}\sqrt{30}e^3 \otimes e_6 + \frac{1}{12}\sqrt{6}e^5 \otimes e_9$	{12349, 1235, 14679, 1567, 24568, 2689}
94:1	$0, 0, 0, 0, 0, \frac{5}{1601}\sqrt{15054}e^{12}, \frac{4}{1601}\sqrt{579}e^{13}, \frac{2}{1601}\sqrt{123906}e^{23}, \frac{2}{1601}\sqrt{59637}e^{14}$	$(\frac{412}{1601}, \frac{83}{1601}, -\frac{250}{1601}, -\frac{36}{1601}, -\frac{496}{1601}, \frac{495}{1601}, \frac{162}{1601}, -\frac{167}{1601}, \frac{376}{1601})$ $+ \frac{3}{1601}\sqrt{98430}e^1 \otimes e_8 + \frac{6}{1601}\sqrt{21423}e^2 \otimes e_5$	{12347, 12379, 1456, 1569, 246789, 2678, 34589, 358}
94:1	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{1}{313}\sqrt{4334}e^{13}, \frac{2}{313}\sqrt{6501}e^{23}, \frac{2}{313}\sqrt{6501}e^{14}$	$(-\frac{49}{313}, \frac{121}{313}, -\frac{16}{313}, -\frac{27}{313}, \frac{132}{313}, \frac{72}{313}, -\frac{65}{313}, \frac{105}{313}, -\frac{76}{313})$ $+ \frac{1}{313}\sqrt{36642}e^5 \otimes e_7 + \frac{1}{313}\sqrt{71314}e^2 \otimes e_9$	{12347, 12458, 136789, 1569, 2356, 2678, 34589, 479}
94:1	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{1}{31}\sqrt{195}e^{13}, \frac{1}{31}\sqrt{273}e^{23}, \frac{6}{31}\sqrt{26}e^{14}$	$(-\frac{3}{62}, \frac{9}{62}, \frac{9}{62}, \frac{19}{31}, -\frac{20}{31}, \frac{3}{31}, \frac{3}{31}, \frac{9}{31}, \frac{35}{62})$ $+ \frac{3}{31}\sqrt{221}e^4 \otimes e_5$	{123467, 1235679, 12468, 125689, 14, 159, 2349, 235, 24789, 2578, 4679, 567}
94:1	$0, 0, 0, 0, 0, \frac{2}{383}\sqrt{4110}e^{12}, \frac{2}{383}\sqrt{274}e^{13}, \frac{1}{383}\sqrt{18906}e^{23}, \frac{3}{383}\sqrt{822}e^{14}$	$(-\frac{58}{383}, \frac{39}{383}, -\frac{40}{383}, \frac{118}{383}, \frac{136}{383}, -\frac{19}{383}, -\frac{98}{383}, -\frac{1}{383}, \frac{60}{383})$ $+ \frac{1}{383}\sqrt{28222}e^5 \otimes e_8 + \frac{3}{383}\sqrt{4110}e^2 \otimes e_7 + \frac{4}{383}\sqrt{1918}e^4 \otimes e_6$	{12345, 15679, 268, 34789}
94:1	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{1}{31}\sqrt{195}e^{13}, \frac{6}{31}\sqrt{26}e^{23}, \frac{1}{31}\sqrt{273}e^{14}$	$(\frac{7}{31}, -\frac{4}{31}, -\frac{4}{31}, \frac{2}{31}, \frac{1}{31}, \frac{3}{31}, \frac{3}{31}, -\frac{8}{31}, \frac{9}{31})$ $+ \frac{3}{31}\sqrt{221}e^5 \otimes e_8$	{1234567, 1235679, 12468, 12689, 145, 159, 23459, 235, 24789, 278, 45679, 567}
94:1	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{1}{67}\sqrt{987}e^{13}, \frac{2}{67}\sqrt{94}e^{23}, \frac{3}{67}\sqrt{47}e^{14}$	$(\frac{25}{67}, -\frac{7}{67}, -\frac{7}{67}, -\frac{22}{67}, \frac{33}{67}, \frac{18}{67}, \frac{18}{67}, -\frac{14}{67}, \frac{6}{67})$ $+ \frac{1}{67}\sqrt{2397}e^5 \otimes e_8 + \frac{2}{67}\sqrt{799}e^1 \otimes e_4$	{1235, 1278, 1567, 234567, 2468, 45}
94:1	$0, 0, 0, 0, 0, \frac{1}{425}\sqrt{5146}e^{12}, \frac{1}{425}\sqrt{8466}e^{13}, \frac{3}{425}\sqrt{2490}e^{23}, \frac{1}{425}\sqrt{9794}e^{14}$	$(-\frac{46}{425}, \frac{48}{425}, \frac{11}{425}, -\frac{26}{425}, \frac{142}{425}, \frac{2}{425}, -\frac{7}{85}, \frac{59}{425}, -\frac{72}{425})$ $+ \frac{1}{425}\sqrt{18094}e^5 \otimes e_8 + \frac{1}{425}\sqrt{19754}e^2 \otimes e_7 + \frac{2}{425}\sqrt{6806}e^3 \otimes e_9$	{123456, 1579, 2489, 3678}
94:1	$0, 0, 0, 0, 0, \frac{5}{404}\sqrt{695}e^{12}, \frac{5}{404}\sqrt{695}e^{13}, \frac{25}{202}\sqrt{13}e^{23}, \frac{5}{404}\sqrt{1810}e^{14}$	$(-\frac{9}{404}, -\frac{55}{808}, -\frac{55}{808}, \frac{35}{202}, \frac{93}{202}, -\frac{73}{808}, -\frac{73}{808}, -\frac{55}{404}, \frac{61}{404})$ $+ \frac{15}{404}\sqrt{170}e^5 \otimes e_9 + \frac{5}{202}\sqrt{545}e^4 \otimes e_8$	{1234567, 12689, 145, 2349, 2578, 4679}
94:1	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{231}e^{12}, \frac{1}{63}\sqrt{231}e^{13}, \frac{2}{63}\sqrt{77}e^{23}, \frac{11}{63}e^{14}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{10}{63}, \frac{17}{63}, -\frac{8}{63}, -\frac{8}{63}, \frac{2}{21}, -\frac{1}{63})$ $+ \frac{1}{63}\sqrt{506}e^2 \otimes e_7 + \frac{1}{63}\sqrt{506}e^3 \otimes e_6 + \frac{5}{63}\sqrt{11}e^5 \otimes e_8$	{123459, 1235, 145679, 1567, 2468, 2689}
94:1	$0, 0, 0, 0, 0, \frac{1}{127}\sqrt{7482}e^{12}, \frac{1}{127}\sqrt{7482}e^{13}, \frac{6}{127}\sqrt{86}e^{23}, \frac{1}{127}\sqrt{5934}e^{14}$	$(\frac{46}{127}, \frac{5}{127}, \frac{5}{127}, -\frac{1}{127}, -\frac{83}{127}, \frac{51}{127}, \frac{51}{127}, \frac{10}{127}, \frac{45}{127})$ $+ \frac{3}{127}\sqrt{3010}e^1 \otimes e_5$	{12348, 12389, 1247, 1279, 14678, 16789, 23456789, 235678, 24569, 256, 4589, 58}
94:1	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{2}{11}\sqrt{6}e^{23}, \frac{1}{11}\sqrt{38}e^{14}$	$(\frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, -\frac{3}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{2}{11}, \frac{5}{11})$ $+ \frac{1}{11}\sqrt{42}e^1 \otimes e_5 + \frac{2}{11}\sqrt{14}e^4 \otimes e_8$	{123467, 12689, 14, 23459, 2578, 45679}
94:1	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{1}{31}\sqrt{195}e^{13}, \frac{1}{31}\sqrt{273}e^{23}, \frac{6}{31}\sqrt{26}e^{14}$	$(-\frac{3}{62}, \frac{9}{62}, \frac{9}{62}, -\frac{13}{62}, \frac{1}{31}, \frac{3}{31}, \frac{3}{31}, \frac{9}{31}, -\frac{8}{31})$ $+ \frac{3}{31}\sqrt{221}e^5 \otimes e_9$	{1234567, 123679, 124568, 12689, 145, 19, 2349, 235, 24789, 2578, 4679, 567}
94:1	$0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{28}\sqrt{7}e^{23}, \frac{9}{112}\sqrt{14}e^{14}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{3}{112}, \frac{5}{56}, \frac{31}{112}, -\frac{1}{14}, -\frac{15}{112}, \frac{13}{112}, -\frac{1}{14})$ $+ \frac{3}{112}\sqrt{134}e^4 \otimes e_6 + \frac{3}{112}\sqrt{190}e^2 \otimes e_9 + \frac{3}{56}\sqrt{23}e^5 \otimes e_8$	{123457, 1248, 136789, 1569, 2356, 2678, 3489, 4579}
94:1	$0, 0, 0, 0, 0, \frac{4}{1219}\sqrt{3306}e^{12}, \frac{1}{1219}\sqrt{38570}e^{13}, \frac{1}{1219}\sqrt{274398}e^{23}, \frac{2}{1219}\sqrt{110751}e^{14}$	$(-\frac{280}{1219}, \frac{463}{1219}, -\frac{79}{1219}, \frac{192}{1219}, \frac{135}{1219}, \frac{183}{1219}, -\frac{359}{1219}, \frac{384}{1219}, -\frac{88}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^2 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^4 \otimes e_7$	{12458, 1248, 1356789, 136789, 25678, 2678, 34589, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:1	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{11055}e^{12}, \frac{1}{304}\sqrt{11055}e^{13}, \frac{1}{152}\sqrt{4422}e^{23}, \frac{3}{304}\sqrt{1474}e^{14}$	$(-\frac{51}{304}, \frac{231}{608}, -\frac{69}{608}, \frac{1}{76}, \frac{77}{152}, \frac{129}{608}, -\frac{9}{32}, \frac{81}{304}, -\frac{47}{304})$ $+\frac{15}{152}\sqrt{67}e^2 \otimes e_7 + \frac{3}{304}\sqrt{5226}e^5 \otimes e_9$	{12345, 1239, 14567, 1679, 24689, 2568, 34789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{1}{392}\sqrt{4071}e^{12}, \frac{1}{392}\sqrt{4071}e^{13}, \frac{1}{392}\sqrt{25842}e^{23}, \frac{3}{392}\sqrt{4838}e^{14}$	$(\frac{12}{49}, -\frac{81}{784}, -\frac{81}{784}, -\frac{79}{392}, \frac{97}{196}, \frac{111}{784}, \frac{111}{784}, -\frac{81}{392}, \frac{17}{392})$ $+\frac{15}{196}\sqrt{59}e^5 \otimes e_9 + \frac{3}{196}\sqrt{1947}e^1 \otimes e_8$	{12345, 1239, 14567, 1679, 24689, 2568}
94:1	$0, 0, 0, 0, 0, \frac{7}{1357}\sqrt{10302}e^{12}, \frac{1}{1357}\sqrt{91910}e^{13}, \frac{3}{1357}\sqrt{18382}e^{23}, \frac{4}{1357}\sqrt{9191}e^{14}$	$(-\frac{376}{1357}, \frac{13}{59}, -\frac{32}{1357}, \frac{630}{1357}, \frac{150}{1357}, -\frac{77}{1357}, -\frac{408}{1357}, \frac{267}{1357}, \frac{254}{1357})$ $+\frac{4}{1357}\sqrt{51611}e^4 \otimes e_6 + \frac{7}{1357}\sqrt{17978}e^2 \otimes e_7$	{1234, 12345, 15679, 1679, 2568, 268, 345789, 34789}
94:1	$0, 0, 0, 0, 0, \frac{1}{208}\sqrt{6895}e^{12}, \frac{1}{208}\sqrt{6895}e^{13}, \frac{1}{312}\sqrt{394}e^{23}, \frac{1}{624}\sqrt{26398}e^{14}$	$(\frac{19}{208}, \frac{23}{96}, -\frac{209}{1248}, -\frac{35}{156}, \frac{19}{104}, \frac{413}{1248}, -\frac{95}{1248}, \frac{15}{208}, -\frac{83}{624})$ $+\frac{1}{312}\sqrt{25019}e^2 \otimes e_7 + \frac{1}{39}\sqrt{394}e^1 \otimes e_4 + \frac{1}{624}\sqrt{25610}e^5 \otimes e_9$	{12358, 15678, 2456, 3457}
94:1	$0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{2}{139}\sqrt{455}e^{23}, \frac{1}{139}\sqrt{3115}e^{14}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{15}{139}, \frac{23}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{20}{139}, \frac{38}{139}, -\frac{12}{139})$ $+\frac{1}{139}\sqrt{210}e^5 \otimes e_7 + \frac{1}{139}\sqrt{3885}e^4 \otimes e_6 + \frac{1}{139}\sqrt{4795}e^2 \otimes e_9$	{12347, 12458, 136789, 1569, 2356, 2678, 34589, 479}
94:1	$0, 0, 0, 0, 0, \frac{1}{563}\sqrt{16878}e^{12}, \frac{2}{563}\sqrt{2231}e^{13}, \frac{2}{563}\sqrt{8439}e^{23}, \frac{2}{563}\sqrt{8439}e^{14}$	$(\frac{82}{563}, \frac{59}{563}, -\frac{74}{563}, -\frac{120}{563}, \frac{54}{563}, \frac{141}{563}, \frac{8}{563}, -\frac{15}{563}, -\frac{38}{563})$ $+\frac{2}{563}\sqrt{12901}e^2 \otimes e_9 + \frac{9}{563}\sqrt{582}e^1 \otimes e_8$	{123457, 12347, 1569, 169, 25678, 2678, 34589, 3489}
94:1	$0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{38570}e^{12}, \frac{4}{1219}\sqrt{3306}e^{13}, \frac{2}{1219}\sqrt{11075}e^{23}, \frac{1}{1219}\sqrt{274398}e^{14}$	$(-\frac{127}{1219}, \frac{227}{1219}, \frac{310}{1219}, -\frac{114}{1219}, -\frac{324}{1219}, \frac{100}{1219}, \frac{183}{1219}, \frac{537}{1219}, -\frac{241}{1219})$ $+\frac{25}{1219}\sqrt{1102}e^3 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^2 \otimes e_5$	{12346, 126789, 13458, 1579, 237, 2489, 35678, 4569}
94:1	$0, 0, 0, 0, 0, \frac{14}{181}e^{12}, \frac{7}{181}\sqrt{30}e^{13}, \frac{7}{181}\sqrt{102}e^{23}, \frac{28}{181}\sqrt{6}e^{14}$	$(-\frac{20}{181}, \frac{37}{181}, -\frac{21}{181}, \frac{8}{181}, \frac{65}{181}, \frac{17}{181}, -\frac{41}{181}, \frac{16}{181}, -\frac{12}{181})$ $+\frac{35}{181}\sqrt{6}e^2 \otimes e_9 + \frac{70}{181}e^5 \otimes e_8 + \frac{7}{181}\sqrt{82}e^4 \otimes e_7$	{1248, 136789, 2678, 3489}
94:1	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{94326}e^{12}, \frac{6}{521}\sqrt{1185}e^{13}, \frac{1}{521}\sqrt{39342}e^{23}, \frac{1}{521}\sqrt{39342}e^{14}$	$(\frac{97}{521}, -\frac{76}{521}, \frac{33}{521}, -\frac{140}{521}, \frac{258}{521}, \frac{21}{521}, \frac{130}{521}, -\frac{43}{521}, -\frac{43}{521})$ $+\frac{1}{521}\sqrt{124662}e^1 \otimes e_4 + \frac{2}{521}\sqrt{25833}e^5 \otimes e_6$	{12358, 1257, 136, 1678, 234678, 246, 3457, 458}
94:1	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{30}e^{12}, \frac{2}{25}\sqrt{3}e^{13}, \frac{6}{25}e^{23}, \frac{6}{25}e^{14}$	$(\frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, -\frac{4}{25}, \frac{6}{25}, \frac{3}{25}, 0, -\frac{1}{25}, -\frac{2}{25})$ $+\frac{2}{25}\sqrt{15}e^2 \otimes e_9 + \frac{2}{25}\sqrt{6}e^5 \otimes e_6 + \frac{3}{25}\sqrt{6}e^1 \otimes e_8$	{123457, 169, 2678, 34589}
94:1	$0, 0, 0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{66}e^{13}, \frac{4}{23}\sqrt{3}e^{23}, \frac{6}{23}e^{14}$	$(-\frac{6}{23}, \frac{3}{23}, \frac{3}{23}, \frac{5}{23}, \frac{2}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{6}{23}, -\frac{1}{23})$ $+\frac{3}{23}\sqrt{14}e^2 \otimes e_7 + \frac{3}{23}\sqrt{14}e^3 \otimes e_6$	{123, 123459, 12349, 1235, 145679, 14679, 1567, 167, 24568, 2468, 25689, 2689}
94:1	$0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{191678}e^{12}, \frac{2}{3969}\sqrt{58145}e^{13}, \frac{2}{3969}\sqrt{184861}e^{23}, \frac{4}{3969}\sqrt{121503}e^{14}$	$(\frac{19}{441}, -\frac{209}{1323}, -\frac{4}{3969}, \frac{346}{3969}, \frac{1319}{3969}, -\frac{152}{1323}, \frac{167}{3969}, -\frac{631}{3969}, \frac{517}{3969})$ $+\frac{2}{3969}\sqrt{403807}e^5 \otimes e_9 + \frac{2}{3969}\sqrt{499646}e^4 \otimes e_6 + \frac{4}{1323}\sqrt{15639}e^1 \otimes e_8$	{123457, 169, 25678, 3489}
94:1	$0, 0, 0, 0, 0, \frac{1}{1541}\sqrt{755630}e^{12}, \frac{13}{1541}\sqrt{1558}e^{13}, \frac{1}{1541}\sqrt{132430}e^{23}, \frac{4}{1541}\sqrt{16359}e^{14}$	$(-\frac{336}{1541}, \frac{339}{1541}, -\frac{104}{1541}, \frac{318}{1541}, \frac{34}{67}, \frac{3}{1541}, -\frac{440}{1541}, \frac{235}{1541}, -\frac{18}{1541})$ $+\frac{1}{1541}\sqrt{1182522}e^2 \otimes e_7 + \frac{4}{1541}\sqrt{61541}e^5 \otimes e_6$	{123459, 1235, 14679, 167, 2468, 2689, 34578, 35789}
94:1	$0, 0, 0, 0, 0, \frac{4}{405}\sqrt{1133}e^{12}, \frac{2}{405}\sqrt{5459}e^{13}, \frac{8}{405}\sqrt{103}e^{23}, \frac{2}{405}\sqrt{14214}e^{14}$	$(-\frac{2}{9}, -\frac{7}{135}, \frac{76}{405}, \frac{19}{81}, \frac{211}{405}, -\frac{37}{135}, -\frac{14}{405}, \frac{11}{81}, \frac{1}{81})$ $+\frac{2}{405}\sqrt{19982}e^4 \otimes e_6 + \frac{4}{405}\sqrt{4429}e^5 \otimes e_9$	{123457, 12458, 136789, 169, 2356, 25678, 3489, 479}
94:1	$0, 0, 0, 0, 0, \frac{4}{851}\sqrt{2130}e^{12}, \frac{4}{851}\sqrt{710}e^{13}, \frac{8}{851}\sqrt{1065}e^{23}, \frac{8}{851}\sqrt{1065}e^{14}$	$(\frac{109}{851}, \frac{89}{851}, -\frac{122}{851}, -\frac{162}{851}, \frac{129}{851}, \frac{198}{851}, -\frac{13}{851}, -\frac{33}{851}, -\frac{53}{851})$ $+\frac{2}{851}\sqrt{26341}e^2 \otimes e_9 + \frac{2}{851}\sqrt{3621}e^5 \otimes e_7 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_8$	{12347, 1569, 2678, 34589}
94:1	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{2}{103}\sqrt{299}e^{13}, \frac{4}{103}\sqrt{65}e^{23}, \frac{2}{103}\sqrt{442}e^{14}$	$(-\frac{26}{103}, \frac{17}{103}, \frac{12}{103}, \frac{17}{103}, \frac{9}{103}, -\frac{9}{103}, -\frac{14}{103}, \frac{29}{103}, -\frac{9}{103})$ $+\frac{2}{103}\sqrt{546}e^4 \otimes e_6 + \frac{52}{103}e^2 \otimes e_9$	{123457, 12347, 12458, 1248, 1356789, 136789, 1569, 169, 2356, 236, 25678, 2678, 34589, 3489, 4579, 479}
94:1	$0, 0, 0, 0, 0, \frac{1}{78}\sqrt{1147}e^{12}, \frac{1}{78}\sqrt{1147}e^{13}, \frac{1}{39}\sqrt{31}e^{23}, \frac{1}{39}\sqrt{31}e^{14}$	$(\frac{2}{39}, \frac{15}{52}, -\frac{25}{156}, \frac{1}{13}, -\frac{9}{26}, \frac{53}{156}, -\frac{17}{156}, \frac{5}{39}, \frac{5}{39})$ $+\frac{1}{78}\sqrt{2170}e^1 \otimes e_5 + \frac{1}{78}\sqrt{2170}e^2 \otimes e_7$	{1234, 1239, 1467, 1679, 245689, 2568, 345789, 3578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:1	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{138430}e^{12}, \frac{2}{1641}\sqrt{23495}e^{13}, \frac{1}{1641}\sqrt{478790}e^{23},$ $\frac{2}{1641}\sqrt{37465}e^{14}$	$(-\frac{236}{1641}, \frac{67}{1641}, \frac{466}{1641}, \frac{274}{1641}, -\frac{568}{1641}, -\frac{169}{1641}, \frac{230}{1641}, \frac{533}{1641}, \frac{38}{1641})$ $+\frac{1}{1641}\sqrt{966470}e^3 \otimes e_6 + \frac{2}{1641}\sqrt{229870}e^2 \otimes e_5$	{123, 12349, 145679, 1567, 2468, 2689, 34578, 35789}
94:1	$0, 0, 0, 0, 0, \frac{2}{4001}\sqrt{462990}e^{12}, \frac{6}{4001}\sqrt{31970}e^{13}, \frac{8}{4001}\sqrt{4485}e^{23},$ $\frac{6}{4001}\sqrt{24955}e^{14}$	$(\frac{131}{4001}, \frac{418}{4001}, -\frac{403}{4001}, -\frac{559}{4001}, \frac{1239}{4001}, \frac{549}{4001}, -\frac{272}{4001}, \frac{15}{4001}, -\frac{428}{4001})$ $+\frac{2}{4001}\sqrt{494385}e^1 \otimes e_4 + \frac{4}{4001}\sqrt{87630}e^5 \otimes e_6 + \frac{6}{4001}\sqrt{50945}e^2 \otimes e_7$	{12358, 1678, 246, 3457}
94:1	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{2}e^{13}, \frac{1}{11}\sqrt{38}e^{23}, \frac{2}{11}\sqrt{6}e^{14}$	$(-\frac{4}{55}, \frac{9}{55}, -\frac{12}{55}, \frac{2}{55}, \frac{6}{55}, \frac{1}{11}, -\frac{16}{55}, -\frac{3}{55}, \frac{18}{55})$ $+\frac{1}{11}\sqrt{42}e^2 \otimes e_7 + \frac{2}{11}\sqrt{14}e^4 \otimes e_8$	{125689, 12689, 135789, 13789, 23459, 2349, 45679, 4679}
94:1	$0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{12}, \frac{1}{157}\sqrt{2310}e^{13}, \frac{2}{157}\sqrt{1155}e^{23}, \frac{2}{157}\sqrt{1155}e^{14}$	$(-\frac{25}{157}, \frac{55}{157}, -\frac{14}{157}, \frac{66}{157}, -\frac{50}{157}, \frac{30}{157}, -\frac{39}{157}, \frac{41}{157}, \frac{41}{157})$ $+\frac{3}{157}\sqrt{1610}e^2 \otimes e_5 + \frac{3}{157}\sqrt{1610}e^4 \otimes e_7$	{1234, 12789, 134568, 15679, 2367, 24689, 3578, 459}
94:1	$0, 0, 0, 0, 0, \frac{2}{1369}\sqrt{69231}e^{12}, \frac{4}{1369}\sqrt{3437}e^{13}, \frac{6}{1369}\sqrt{5401}e^{23},$ $\frac{1}{1369}\sqrt{374142}e^{14}$	$(\frac{86}{1369}, \frac{340}{1369}, \frac{2}{1369}, -\frac{237}{1369}, -\frac{405}{1369}, \frac{426}{1369}, \frac{88}{1369}, \frac{342}{1369}, -\frac{151}{1369})$ $+\frac{26}{1369}\sqrt{982}e^2 \otimes e_9 + \frac{3}{1369}\sqrt{59902}e^1 \otimes e_5$	{12347, 1248, 136789, 169, 2356, 25678, 34589, 4579}
94:1	$0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{2}{499}\sqrt{18291}e^{13}, \frac{2}{499}\sqrt{38766}e^{23},$ $\frac{4}{499}\sqrt{273}e^{14}$	$(\frac{8}{499}, \frac{217}{499}, \frac{10}{499}, \frac{81}{499}, -\frac{329}{499}, \frac{225}{499}, \frac{18}{499}, \frac{227}{499}, \frac{89}{499})$ $+\frac{6}{499}\sqrt{12558}e^2 \otimes e_5$	{12347, 12379, 1248, 1289, 1345678, 1356789, 1456, 1569, 23469, 236, 246789, 2678, 34589, 358, 4579, 57}
94:1	$0, 0, 0, 0, 0, \frac{2}{161}\sqrt{6386}e^{12}, \frac{2}{161}\sqrt{515}e^{13}, \frac{2}{161}\sqrt{1030}e^{23}, \frac{2}{161}\sqrt{1030}e^{14}$	$(-\frac{20}{161}, -\frac{25}{161}, \frac{6}{161}, \frac{37}{161}, 1, -\frac{45}{161}, \frac{22}{161}, \frac{17}{161}, \frac{17}{161})$ $+\frac{2}{161}\sqrt{13802}e^5 \otimes e_6$	{12345789, 123578, 12459, 125, 134679, 1367, 14689, 168, 23468, 23689, 2467, 2679, 345, 359, 4578, 5789}
94:1	$0, 0, 0, 0, 0, \frac{46}{2961}\sqrt{470}e^{12}, \frac{46}{2961}\sqrt{53}e^{13}, \frac{46}{2961}\sqrt{229}e^{23},$ $\frac{92}{2961}\sqrt{141}e^{14}$	$(-\frac{81}{329}, \frac{45}{329}, \frac{76}{2961}, \frac{734}{2961}, \frac{1063}{2961}, -\frac{36}{329}, -\frac{653}{2961}, \frac{481}{2961}, \frac{5}{2961})$ $+\frac{46}{2961}\sqrt{1046}e^4 \otimes e_6 + \frac{46}{2961}\sqrt{811}e^5 \otimes e_9 + \frac{92}{2961}\sqrt{213}e^2 \otimes e_7$	{12458, 136789, 2356, 479}
94:1	$0, 0, 0, 0, 0, \frac{1}{392}\sqrt{4071}e^{12}, \frac{1}{392}\sqrt{4071}e^{13}, \frac{1}{392}\sqrt{25842}e^{23},$ $\frac{3}{392}\sqrt{4838}e^{14}$	$(\frac{12}{49}, -\frac{81}{784}, -\frac{81}{784}, \frac{71}{392}, \frac{53}{196}, \frac{111}{784}, \frac{111}{784}, -\frac{81}{392}, \frac{167}{392})$ $+\frac{15}{196}\sqrt{59}e^4 \otimes e_5 + \frac{3}{196}\sqrt{1947}e^1 \otimes e_8$	{1234, 12359, 1467, 15679, 24689, 2568}
94:1	$0, 0, 0, 0, 0, \frac{10}{667}\sqrt{10}e^{12}, \frac{10}{667}\sqrt{635}e^{13}, \frac{20}{667}\sqrt{330}e^{23}, \frac{10}{667}\sqrt{890}e^{14}$	$(\frac{10}{667}, \frac{55}{667}, -\frac{74}{667}, \frac{231}{667}, -\frac{195}{667}, \frac{65}{667}, -\frac{64}{667}, -\frac{19}{667}, \frac{241}{667})$ $+\frac{10}{667}\sqrt{1290}e^2 \otimes e_5 + \frac{10}{667}\sqrt{1730}e^4 \otimes e_8$	{12347, 1289, 1356789, 1456, 23469, 2678, 358, 4579}
94:1	$0, 0, 0, 0, 0, \frac{11}{343}\sqrt{78}e^{12}, \frac{11}{343}\sqrt{2}e^{13}, \frac{55}{343}\sqrt{6}e^{23}, \frac{66}{343}\sqrt{2}e^{14}$	$(-\frac{44}{343}, \frac{33}{343}, -\frac{44}{343}, \frac{110}{343}, \frac{110}{343}, -\frac{11}{343}, -\frac{88}{343}, -\frac{11}{343}, \frac{66}{343})$ $+\frac{22}{343}\sqrt{58}e^4 \otimes e_8 + \frac{33}{343}\sqrt{26}e^2 \otimes e_7 + \frac{44}{343}\sqrt{10}e^5 \otimes e_6$	{12589, 136789, 23469, 4579}
94:1	$0, 0, 0, 0, 0, \frac{12}{271}\sqrt{2}e^{12}, \frac{8}{271}\sqrt{51}e^{13}, \frac{4}{271}\sqrt{345}e^{23}, \frac{4}{271}\sqrt{345}e^{14}$	$(-\frac{21}{271}, \frac{35}{271}, -\frac{27}{271}, \frac{32}{271}, \frac{20}{271}, \frac{14}{271}, -\frac{48}{271}, \frac{8}{271}, \frac{11}{271})$ $+\frac{4}{271}\sqrt{381}e^4 \otimes e_8 + \frac{8}{271}\sqrt{93}e^2 \otimes e_9$	{1234567, 123467, 135789, 13789, 2578, 278, 45679, 4679}
94:1	$0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{2}{139}\sqrt{455}e^{23}, \frac{1}{139}\sqrt{3115}e^{14}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{15}{139}, \frac{23}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{20}{139}, \frac{38}{139}, -\frac{12}{139})$ $+\frac{1}{139}\sqrt{210}e^5 \otimes e_7 - \frac{1}{139}\sqrt{3885}e^4 \otimes e_6 + \frac{1}{139}\sqrt{4795}e^2 \otimes e_9$	{12347, 12458, 136789, 1569, 2356, 2678, 34589, 479}
94:1	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{51}\sqrt{6}e^{13}, \frac{4}{51}\sqrt{21}e^{23}, \frac{4}{51}\sqrt{21}e^{14}$	$(-\frac{3}{17}, \frac{2}{17}, \frac{2}{17}, \frac{7}{17}, -\frac{6}{17}, -\frac{1}{17}, -\frac{1}{17}, \frac{4}{17}, \frac{4}{17})$ $+\frac{4}{51}\sqrt{69}e^2 \otimes e_5 + \frac{4}{51}\sqrt{69}e^4 \otimes e_6$	{12347, 1248, 1356789, 1569, 236, 2678, 34589, 4579}
94:1	$0, 0, 0, 0, 0, \frac{2}{3013}\sqrt{198907}e^{12}, \frac{32}{3013}\sqrt{443}e^{13}, \frac{4}{3013}\sqrt{28795}e^{23},$ $\frac{2}{3013}\sqrt{256497}e^{14}$	$(\frac{201}{3013}, -\frac{439}{3013}, -\frac{246}{3013}, \frac{648}{3013}, \frac{841}{3013}, -\frac{238}{3013}, -\frac{45}{3013}, -\frac{685}{3013}, \frac{849}{3013})$ $+\frac{18}{3013}\sqrt{6645}e^1 \otimes e_8 + \frac{2}{3013}\sqrt{252953}e^5 \otimes e_7 + \frac{2}{3013}\sqrt{423951}e^4 \otimes e_6$	{12345, 1679, 2568, 34789}
94:1	$0, 0, 0, 0, 0, \frac{1}{127}\sqrt{7482}e^{12}, \frac{1}{127}\sqrt{7482}e^{13}, \frac{1}{127}\sqrt{5934}e^{23}, \frac{6}{127}\sqrt{86}e^{14}$	$(-\frac{24}{127}, \frac{75}{127}, -\frac{30}{127}, \frac{34}{127}, \frac{22}{127}, \frac{51}{127}, -\frac{54}{127}, \frac{45}{127}, \frac{10}{127})$ $+\frac{3}{127}\sqrt{3010}e^2 \otimes e_7$	{123, 123459, 12349, 1235, 145679, 14679, 1567, 167, 24568, 2468, 25689, 2689, 34578, 3478, 35789, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:1	$0, 0, 0, 0, 0, \frac{16}{41}\sqrt{2}e^{12}, \frac{16}{41}\sqrt{2}e^{13}, \frac{8}{41}\sqrt{19}e^{23}, \frac{8}{41}\sqrt{19}e^{14}$	$(\frac{3}{41}, -\frac{5}{41}, -\frac{5}{41}, \frac{22}{41}, \frac{6}{41}, -\frac{2}{41}, -\frac{2}{41}, -\frac{10}{41}, \frac{25}{41})$ $+ \frac{8}{41}\sqrt{35}e^4 \otimes e_8$	{1234567, 123467, 125689, 12689, 14, 145, 23459, 2349, 2578, 278, 45679, 4679}
94:1	$0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{138430}e^{12}, \frac{2}{1641}\sqrt{23495}e^{13}, \frac{2}{1641}\sqrt{37465}e^{23}, \frac{1}{1641}\sqrt{478790}e^{14}$	$(\frac{10}{547}, -\frac{54}{1641}, \frac{200}{1641}, \frac{503}{1641}, -\frac{605}{1641}, -\frac{44}{547}, \frac{230}{1641}, \frac{38}{1641}, \frac{533}{1641})$ $+ \frac{1}{1641}\sqrt{966470}e^1 \otimes e_5 + \frac{2}{1641}\sqrt{229870}e^4 \otimes e_6$	{12348, 1247, 1369, 16789, 235678, 256, 34579, 4589}
94:1	$0, 0, 0, 0, 0, \frac{4}{937}\sqrt{4895}e^{12}, \frac{1}{937}\sqrt{42898}e^{13}, \frac{1}{937}\sqrt{47170}e^{23}, \frac{4}{937}\sqrt{534}e^{14}$	$(\frac{48}{937}, \frac{48}{937}, -\frac{178}{937}, \frac{51}{937}, \frac{274}{937}, \frac{96}{937}, -\frac{130}{937}, -\frac{130}{937}, \frac{99}{937})$ $+ \frac{15}{937}\sqrt{534}e^1 \otimes e_8 + \frac{1}{937}\sqrt{115878}e^2 \otimes e_7 + \frac{2}{937}\sqrt{17711}e^5 \otimes e_6$	{12345, 12359, 1467, 1679, 24689, 268, 345789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{4}{937}\sqrt{4895}e^{12}, \frac{1}{937}\sqrt{42898}e^{13}, \frac{1}{937}\sqrt{47170}e^{23}, \frac{4}{937}\sqrt{534}e^{14}$	$(\frac{48}{937}, \frac{48}{937}, -\frac{178}{937}, \frac{51}{937}, \frac{274}{937}, \frac{96}{937}, -\frac{130}{937}, -\frac{130}{937}, \frac{99}{937})$ $+ \frac{15}{937}\sqrt{534}e^1 \otimes e_8 - \frac{1}{937}\sqrt{115878}e^2 \otimes e_7 + \frac{2}{937}\sqrt{17711}e^5 \otimes e_6$	{12345, 12359, 1467, 1679, 24689, 268, 345789, 3578}
94:1	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7293}e^{12}, \frac{1}{391}\sqrt{22451}e^{13}, \frac{2}{391}\sqrt{10582}e^{23}, \frac{1}{391}\sqrt{28457}e^{14}$	$(-\frac{9}{391}, \frac{72}{391}, -\frac{32}{391}, -\frac{62}{391}, \frac{183}{391}, \frac{63}{391}, -\frac{41}{391}, \frac{40}{391}, -\frac{71}{391})$ $+ \frac{1}{391}\sqrt{41613}e^5 \otimes e_8 + \frac{52}{391}\sqrt{22}e^2 \otimes e_9$	{123457, 1248, 136789, 1569, 2356, 2678, 3489, 4579}
94:1	$0, 0, 0, 0, 0, \frac{20}{613}\sqrt{2}e^{12}, \frac{24}{613}\sqrt{30}e^{13}, \frac{4}{613}\sqrt{1545}e^{23}, \frac{4}{613}\sqrt{1545}e^{14}$	$(-\frac{35}{613}, \frac{73}{613}, -\frac{45}{613}, \frac{68}{613}, -\frac{40}{613}, \frac{38}{613}, -\frac{80}{613}, \frac{28}{613}, \frac{33}{613})$ $+ \frac{4}{613}\sqrt{1645}e^4 \otimes e_8 + \frac{72}{613}\sqrt{5}e^2 \otimes e_9 + \frac{8}{613}\sqrt{110}e^5 \otimes e_7$	{1234567, 135789, 2578, 45679}
94:1	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{12}\sqrt{15}e^{13}, \frac{1}{6}\sqrt{3}e^{23}, \frac{1}{12}\sqrt{6}e^{14}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{8}, \frac{1}{6}, \frac{1}{6}, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{12})$ $+ \frac{1}{12}\sqrt{30}e^2 \otimes e_7 - \frac{1}{12}\sqrt{30}e^3 \otimes e_6 + \frac{1}{12}\sqrt{6}e^5 \otimes e_9$	{12349, 1235, 14679, 1567, 24568, 2689}
94:1	$0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{2}{103}\sqrt{299}e^{13}, \frac{4}{103}\sqrt{65}e^{23}, \frac{2}{103}\sqrt{442}e^{14}$	$(-\frac{26}{103}, \frac{17}{103}, \frac{12}{103}, \frac{17}{103}, \frac{9}{103}, -\frac{9}{103}, -\frac{14}{103}, \frac{29}{103}, -\frac{9}{103})$ $- \frac{2}{103}\sqrt{546}e^4 \otimes e_6 + \frac{52}{103}e^2 \otimes e_9$	{123457, 12347, 12458, 1248, 1356789, 136789, 1569, 169, 2356, 236, 25678, 2678, 34589, 3489, 4579, 479}
94:1	$0, 0, 0, 0, 0, \frac{2}{425}\sqrt{4674}e^{12}, \frac{2}{425}\sqrt{4674}e^{13}, \frac{1}{425}\sqrt{22386}e^{23}, \frac{6}{425}\sqrt{205}e^{14}$	$(\frac{12}{85}, \frac{12}{85}, -\frac{123}{425}, \frac{14}{425}, \frac{44}{425}, \frac{24}{85}, -\frac{63}{425}, -\frac{63}{425}, \frac{74}{425})$ $- \frac{3}{425}\sqrt{5002}e^2 \otimes e_7 + \frac{6}{425}\sqrt{1353}e^1 \otimes e_8$	{1234, 12345, 12359, 1239, 14567, 1467, 15679, 1679, 245689, 24689, 2568, 268, 345789, 34789, 3578, 378}
94:1	$0, 0, 0, 0, 0, \frac{8}{473}\sqrt{142}e^{12}, \frac{10}{473}\sqrt{213}e^{13}, \frac{2}{473}\sqrt{6603}e^{23}, \frac{12}{473}\sqrt{71}e^{14}$	$(-\frac{101}{473}, \frac{8}{473}, \frac{47}{473}, \frac{6}{473}, \frac{3}{11}, -\frac{13}{473}, -\frac{54}{473}, \frac{135}{473}, -\frac{95}{473})$ $+ \frac{2}{473}\sqrt{12283}e^3 \otimes e_9 + \frac{2}{473}\sqrt{6177}e^5 \otimes e_6 + \frac{6}{473}\sqrt{1349}e^2 \otimes e_7$	{12345, 1679, 24689, 3578}
94:1	$0, 0, 0, 0, 0, \frac{2}{425}\sqrt{4674}e^{12}, \frac{2}{425}\sqrt{4674}e^{13}, \frac{1}{425}\sqrt{22386}e^{23}, \frac{6}{425}\sqrt{205}e^{14}$	$(\frac{12}{85}, \frac{12}{85}, -\frac{123}{425}, \frac{14}{425}, \frac{44}{425}, \frac{24}{85}, -\frac{63}{425}, -\frac{63}{425}, \frac{74}{425})$ $+ \frac{3}{425}\sqrt{5002}e^2 \otimes e_7 + \frac{6}{425}\sqrt{1353}e^1 \otimes e_8$	{1234, 12345, 12359, 1239, 14567, 1467, 15679, 1679, 245689, 24689, 2568, 268, 345789, 34789, 3578, 378}
94:1	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{231}e^{12}, \frac{1}{63}\sqrt{231}e^{13}, \frac{2}{63}\sqrt{77}e^{23}, \frac{11}{63}e^{14}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{10}{63}, \frac{17}{63}, -\frac{8}{63}, -\frac{8}{63}, \frac{2}{21}, -\frac{1}{63})$ $+ \frac{1}{63}\sqrt{506}e^2 \otimes e_7 - \frac{1}{63}\sqrt{506}e^3 \otimes e_6 + \frac{5}{63}\sqrt{11}e^5 \otimes e_8$	{123459, 1235, 145679, 1567, 2468, 2689}
94:1	$0, 0, 0, 0, 0, \frac{4}{403}\sqrt{2010}e^{12}, \frac{4}{403}\sqrt{2010}e^{13}, \frac{4}{403}\sqrt{134}e^{23}, \frac{2}{403}\sqrt{4623}e^{14}$	$(\frac{49}{403}, \frac{8}{31}, -\frac{79}{403}, -\frac{85}{403}, \frac{33}{403}, \frac{153}{403}, -\frac{30}{403}, \frac{25}{403}, -\frac{36}{403})$ $+ \frac{2}{403}\sqrt{12261}e^2 \otimes e_7 + \frac{2}{403}\sqrt{12529}e^1 \otimes e_4$	{12358, 1238, 15678, 1678, 2456, 246, 3457, 347}
94:1	$0, 0, 0, 0, 0, \frac{12}{2483}\sqrt{4255}e^{12}, \frac{6}{2483}\sqrt{6670}e^{13}, \frac{6}{2483}\sqrt{15962}e^{23}, \frac{6}{2483}\sqrt{25438}e^{14}$	$(-\frac{561}{2483}, \frac{549}{2483}, \frac{15}{2483}, \frac{282}{2483}, \frac{816}{2483}, -\frac{12}{2483}, -\frac{42}{191}, \frac{564}{2483}, -\frac{279}{2483})$ $+ \frac{12}{2483}\sqrt{7107}e^4 \otimes e_7 + \frac{6}{2483}\sqrt{27554}e^5 \otimes e_6 + \frac{6}{2483}\sqrt{48254}e^2 \otimes e_9$	{12458, 136789, 2678, 34589}
94:1	$0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{12}, \frac{1}{43}\sqrt{119}e^{13}, \frac{1}{43}\sqrt{322}e^{23}, \frac{1}{43}\sqrt{203}e^{14}$	$(\frac{3}{43}, \frac{6}{43}, -\frac{7}{86}, -\frac{11}{43}, \frac{33}{86}, \frac{9}{43}, -\frac{1}{86}, \frac{5}{86}, -\frac{8}{43})$ $+ \frac{1}{43}\sqrt{210}e^1 \otimes e_4 + \frac{1}{43}\sqrt{357}e^5 \otimes e_8 + \frac{2}{43}\sqrt{133}e^2 \otimes e_9$	{136789, 1569, 3489, 4579}
94:1	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7293}e^{12}, \frac{1}{391}\sqrt{22451}e^{13}, \frac{1}{391}\sqrt{28457}e^{23}, \frac{2}{391}\sqrt{10582}e^{14}$	$(-\frac{5}{34}, \frac{241}{782}, \frac{33}{391}, \frac{35}{391}, -\frac{108}{391}, \frac{63}{391}, -\frac{41}{391}, \frac{137}{391}, -\frac{45}{782})$ $+ \frac{1}{391}\sqrt{41613}e^4 \otimes e_5 + \frac{52}{391}\sqrt{22}e^2 \otimes e_9$	{12347, 1248, 1356789, 1569, 2356, 25678, 3489, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:2	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{21}{139}\sqrt{5}e^{24}, \frac{1}{139}\sqrt{210}e^{34}$	$(\frac{23}{139}, \frac{9}{278}, -\frac{14}{139}, -\frac{33}{278}, \frac{44}{139}, \frac{55}{278}, \frac{9}{139}, -\frac{12}{139}, -\frac{61}{278})$ $+\frac{1}{139}\sqrt{2765}e^2 \otimes e_9 + \frac{1}{139}\sqrt{3885}e^1 \otimes e_8 + \frac{8}{139}\sqrt{35}e^5 \otimes e_7$	{1247, 1679, 23678, 34789}
94:2	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{78}e^{13}, \frac{1}{37}\sqrt{221}e^{24}, \frac{1}{37}\sqrt{78}e^{34}$	$(\frac{9}{37}, -\frac{13}{37}, -\frac{2}{37}, \frac{9}{37}, \frac{4}{37}, -\frac{4}{37}, \frac{7}{37}, -\frac{4}{37}, \frac{7}{37})$ $+\frac{1}{37}\sqrt{429}e^1 \otimes e_8 - \frac{1}{37}\sqrt{429}e^4 \otimes e_6$	{1234, 12345, 124579, 12479, 13569, 1369, 1567, 167, 2356789, 236789, 2568, 268}
94:2	$0, 0, 0, 0, 0, \frac{7}{97}\sqrt{6}e^{12}, \frac{1}{97}\sqrt{1554}e^{13}, \frac{1}{97}\sqrt{1554}e^{24}, \frac{7}{97}\sqrt{6}e^{34}$	$(\frac{23}{97}, -\frac{21}{97}, \frac{21}{97}, \frac{23}{97}, \frac{9}{97}, \frac{2}{97}, \frac{2}{97}, \frac{2}{97}, \frac{2}{97})$ $+\frac{2}{97}\sqrt{462}e^1 \otimes e_8 + \frac{2}{97}\sqrt{462}e^4 \otimes e_7$	{1234569, 123469, 1579, 179, 23578, 2378}
94:2	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{78}e^{13}, \frac{1}{37}\sqrt{221}e^{24}, \frac{1}{37}\sqrt{78}e^{34}$	$(\frac{9}{37}, \frac{7}{74}, -\frac{2}{37}, -\frac{15}{74}, \frac{4}{37}, \frac{25}{74}, \frac{7}{37}, -\frac{4}{37}, -\frac{19}{74})$ $+\frac{1}{37}\sqrt{429}e^1 \otimes e_8 + \frac{1}{37}\sqrt{429}e^2 \otimes e_9$	{1234, 12345, 13569, 1369, 2568, 268, 4589, 489}
94:2	$0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{78}e^{13}, \frac{1}{37}\sqrt{221}e^{24}, \frac{1}{37}\sqrt{78}e^{34}$	$(\frac{9}{37}, -\frac{13}{37}, -\frac{2}{37}, \frac{9}{37}, \frac{4}{37}, -\frac{4}{37}, \frac{7}{37}, -\frac{4}{37}, \frac{7}{37})$ $+\frac{1}{37}\sqrt{429}e^1 \otimes e_8 + \frac{1}{37}\sqrt{429}e^4 \otimes e_6$	{1234, 12345, 124579, 12479, 13569, 1369, 1567, 167, 2356789, 236789, 2568, 268}
94:2	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{14}e^{12}, \frac{2}{63}\sqrt{42}e^{13}, \frac{2}{63}\sqrt{42}e^{24}, \frac{10}{63}e^{34}$	$(\frac{1}{21}, \frac{1}{21}, -\frac{4}{63}, -\frac{4}{63}, \frac{10}{63}, \frac{2}{21}, -\frac{1}{63}, -\frac{1}{63}, -\frac{8}{63})$ $+\frac{2}{63}\sqrt{11}e^5 \otimes e_6 + \frac{2}{63}\sqrt{53}e^1 \otimes e_8 + \frac{2}{63}\sqrt{53}e^2 \otimes e_7$	{123459, 1679, 345789}
94:2	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{1}{313}\sqrt{21670}e^{13}, \frac{1}{313}\sqrt{21670}e^{24}, \frac{1}{313}\sqrt{4334}e^{34}$	$(\frac{121}{313}, -\frac{49}{313}, -\frac{27}{313}, -\frac{27}{313}, \frac{143}{313}, \frac{72}{313}, \frac{94}{313}, -\frac{76}{313}, -\frac{54}{313})$ $+\frac{2}{313}\sqrt{16745}e^1 \otimes e_8 + \frac{4}{313}\sqrt{2561}e^5 \otimes e_9$	{12345, 12479, 1369, 1567, 236789, 2568, 34578, 489}
94:2	$0, 0, 0, 0, 0, \frac{3}{161}\sqrt{22}e^{12}, \frac{15}{161}\sqrt{6}e^{13}, \frac{15}{161}\sqrt{6}e^{24}, \frac{3}{161}\sqrt{106}e^{34}$	$(\frac{12}{161}, \frac{12}{161}, -\frac{9}{161}, -\frac{9}{161}, -\frac{9}{161}, \frac{24}{161}, \frac{3}{161}, -\frac{18}{161})$ $+\frac{3}{161}\sqrt{170}e^1 \otimes e_8 + \frac{3}{161}\sqrt{170}e^2 \otimes e_7 + \frac{6}{161}\sqrt{11}e^5 \otimes e_9$	{123459, 15679, 345789}
94:2	$0, 0, 0, 0, 0, \frac{3}{1363}\sqrt{25358}e^{12}, \frac{3}{1363}\sqrt{930}e^{13}, \frac{3}{1363}\sqrt{9362}e^{24}, \frac{3}{1363}\sqrt{9734}e^{34}$	$(\frac{127}{1363}, \frac{1}{29}, -\frac{33}{1363}, -\frac{199}{1363}, \frac{453}{1363}, \frac{6}{47}, \frac{2}{29}, -\frac{152}{1363}, -\frac{8}{47})$ $+\frac{12}{1363}\sqrt{1333}e^5 \otimes e_6 + \frac{6}{1363}\sqrt{6386}e^1 \otimes e_8 + \frac{6}{1363}\sqrt{7719}e^2 \otimes e_9$	{123457, 13679, 2678, 45789}
94:2	$0, 0, 0, 0, 0, \frac{7}{379}\sqrt{22}e^{12}, \frac{2}{379}\sqrt{4774}e^{13}, \frac{2}{379}\sqrt{4774}e^{24}, \frac{7}{379}\sqrt{66}e^{34}$	$(\frac{75}{379}, -\frac{84}{379}, -\frac{70}{379}, \frac{82}{379}, \frac{68}{379}, -\frac{9}{379}, \frac{5}{379}, -\frac{2}{379}, \frac{12}{379})$ $+\frac{1}{379}\sqrt{24486}e^1 \otimes e_8 + \frac{4}{379}\sqrt{1463}e^4 \otimes e_7 + \frac{7}{379}\sqrt{110}e^5 \otimes e_6$	{123469, 1579, 23578, 468}
94:2	$0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{12}, \frac{2}{631}\sqrt{858}e^{13}, \frac{2}{631}\sqrt{2717}e^{24}, \frac{10}{631}\sqrt{715}e^{34}$	$(\frac{113}{631}, -\frac{155}{631}, -\frac{49}{631}, \frac{244}{631}, -\frac{173}{631}, -\frac{42}{631}, \frac{64}{631}, \frac{89}{631}, \frac{195}{631})$ $+\frac{18}{631}\sqrt{429}e^1 \otimes e_5 + \frac{2}{631}\sqrt{45474}e^4 \otimes e_6$	{12347, 1249, 13679, 16, 235689, 25678, 3458, 45789}
94:2	$0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{40774}e^{12}, \frac{1}{1475}\sqrt{662302}e^{13}, \frac{1}{1475}\sqrt{450718}e^{24}, \frac{1}{1475}\sqrt{320682}e^{34}$	$(\frac{67}{295}, -\frac{47}{295}, -\frac{173}{1475}, \frac{19}{1475}, \frac{713}{1475}, \frac{4}{59}, \frac{162}{1475}, -\frac{216}{1475}, -\frac{154}{1475})$ $+\frac{24}{1475}\sqrt{1102}e^5 \otimes e_7 + \frac{2}{1475}\sqrt{209931}e^1 \otimes e_8$	{1234569, 12467, 135, 179, 2378, 2589, 346789, 4568}
94:2	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{2}e^{12}, \frac{1}{13}\sqrt{10}e^{13}, \frac{1}{13}\sqrt{10}e^{24}, \frac{1}{13}\sqrt{6}e^{34}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{2}{13}, 0, 0, -\frac{2}{13})$ $+\frac{2}{13}\sqrt{3}e^1 \otimes e_8 + \frac{2}{13}\sqrt{3}e^2 \otimes e_7$	{123459, 12349, 15679, 1679, 345789, 34789}
94:2	$0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{12}, \frac{2}{631}\sqrt{858}e^{13}, \frac{2}{631}\sqrt{2717}e^{24}, \frac{10}{631}\sqrt{715}e^{34}$	$(\frac{113}{631}, \frac{163}{631}, -\frac{49}{631}, -\frac{74}{631}, -\frac{173}{631}, \frac{276}{631}, \frac{64}{631}, \frac{89}{631}, -\frac{123}{631})$ $+\frac{18}{631}\sqrt{429}e^1 \otimes e_5 + \frac{2}{631}\sqrt{45474}e^2 \otimes e_9$	{12347, 128, 13679, 14689, 23456, 25678, 359, 45789}
94:2	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{21}{139}\sqrt{5}e^{24}, \frac{1}{139}\sqrt{210}e^{34}$	$(\frac{23}{139}, -\frac{35}{139}, -\frac{14}{139}, \frac{23}{139}, \frac{44}{139}, -\frac{12}{139}, \frac{9}{139}, -\frac{12}{139}, \frac{9}{139})$ $-\frac{1}{139}\sqrt{2765}e^4 \otimes e_6 + \frac{1}{139}\sqrt{3885}e^1 \otimes e_8 + \frac{8}{139}\sqrt{35}e^5 \otimes e_7$	{123459, 1247, 1356, 1679, 23678, 25689, 34789, 458}
94:2	$0, 0, 0, 0, 0, \frac{7}{1529}\sqrt{4910}e^{12}, \frac{10}{1529}\sqrt{4910}e^{13}, \frac{14}{1529}\sqrt{1473}e^{24}, \frac{12}{1529}\sqrt{1473}e^{34}$	$(\frac{19}{1529}, \frac{372}{1529}, -\frac{138}{1529}, \frac{68}{1529}, -\frac{472}{1529}, \frac{391}{1529}, -\frac{119}{1529}, \frac{40}{139}, -\frac{70}{1529})$ $+\frac{2}{1529}\sqrt{151719}e^1 \otimes e_5 + \frac{3}{1529}\sqrt{83470}e^2 \otimes e_7$	{12349, 1238, 14678, 1679, 2456, 25689, 345789, 357}
94:2	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{12}, \frac{1}{139}\sqrt{2030}e^{13}, \frac{21}{139}\sqrt{5}e^{24}, \frac{1}{139}\sqrt{210}e^{34}$	$(\frac{23}{139}, -\frac{35}{139}, -\frac{14}{139}, \frac{23}{139}, \frac{44}{139}, -\frac{12}{139}, \frac{9}{139}, -\frac{12}{139}, \frac{9}{139})$ $+\frac{1}{139}\sqrt{2765}e^4 \otimes e_6 + \frac{1}{139}\sqrt{3885}e^1 \otimes e_8 + \frac{8}{139}\sqrt{35}e^5 \otimes e_7$	{123459, 1247, 1356, 1679, 23678, 25689, 34789, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:2	$0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{4}{157}\sqrt{890}e^{13}, \frac{2}{157}\sqrt{267}e^{24}, \frac{2}{157}\sqrt{267}e^{34}$	$(\frac{77}{157}, -\frac{9}{157}, -\frac{9}{157}, \frac{34}{157}, -\frac{101}{157}, \frac{68}{157}, \frac{68}{157}, \frac{25}{157}, \frac{25}{157})$ $+ \frac{2}{157}\sqrt{11481}e^1 \otimes e_5$	{123, 123489, 12478, 1279, 1467, 16789, 23456789, 23567, 24568, 2569, 45, 589}
94:2	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{1}{38}\sqrt{470}e^{24}, \frac{1}{38}\sqrt{517}e^{34}$	$(-\frac{9}{76}, -\frac{9}{76}, \frac{3}{19}, \frac{3}{19}, 1, -\frac{9}{38}, \frac{3}{76}, \frac{3}{76}, \frac{6}{19})$ $+ \frac{3}{38}\sqrt{329}e^5 \otimes e_6$	{1234578, 123579, 125, 13467, 136789, 1469, 168, 345, 3589, 578}
94:2	$0, 0, 0, 0, 0, \frac{1}{101}\sqrt{2346}e^{12}, \frac{4}{101}\sqrt{102}e^{13}, \frac{4}{101}\sqrt{102}e^{24}, \frac{1}{101}\sqrt{714}e^{34}$	$(\frac{25}{101}, -\frac{28}{101}, \frac{2}{101}, \frac{2}{101}, \frac{48}{101}, -\frac{3}{101}, \frac{27}{101}, -\frac{26}{101}, \frac{4}{101})$ $+ \frac{1}{101}\sqrt{3774}e^5 \otimes e_6 + \frac{1}{101}\sqrt{5406}e^1 \otimes e_8$	{123459, 12457, 136, 1679, 23678, 2689, 345789, 458}
94:2	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{938}e^{12}, \frac{1}{79}\sqrt{3886}e^{13}, \frac{1}{79}\sqrt{3886}e^{24}, \frac{1}{79}\sqrt{2010}e^{34}$	$(\frac{43}{79}, -\frac{23}{79}, -\frac{1}{79}, -\frac{1}{79}, \frac{13}{79}, \frac{20}{79}, \frac{42}{79}, -\frac{24}{79}, -\frac{2}{79})$ $+ \frac{2}{79}\sqrt{2211}e^1 \otimes e_8$	{123459, 12349, 12457, 1247, 1356, 136, 15679, 1679, 235678, 23678, 25689, 2689, 345789, 34789, 458, 48}
94:3	$0, 0, 0, 0, 0, \frac{1}{276}\sqrt{19631}e^{12}, \frac{1}{276}\sqrt{50982}e^{13}, \frac{1}{138}\sqrt{1465}e^{24},$ $\frac{1}{276}\sqrt{19631}e^{14} + \frac{1}{138}\sqrt{12013}e^{23}$	$(\frac{25}{276}, -\frac{9}{184}, \frac{107}{276}, \frac{137}{552}, -\frac{31}{46}, \frac{1}{24}, \frac{11}{23}, \frac{55}{276}, \frac{187}{552})$ $+ \frac{1}{276}\sqrt{135366}e^3 \otimes e_5$	{12368, 1245679, 13489, 157, 2347, 2589, 3679, 4568}
94:3	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{35}e^{12}, \frac{2}{63}\sqrt{42}e^{13}, \frac{4}{63}\sqrt{14}e^{24},$ $\frac{2}{63}\sqrt{35}e^{14} + \frac{1}{63}\sqrt{203}e^{23}$	$(0, -\frac{1}{9}, \frac{1}{9}, 0, \frac{2}{9}, -\frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, 0)$ $+ \frac{1}{63}\sqrt{133}e^5 \otimes e_7 + \frac{1}{63}\sqrt{301}e^4 \otimes e_6 + \frac{1}{63}\sqrt{385}e^1 \otimes e_8$	{1247, 1679, 2568, 4589}
94:3	$0, 0, 0, 0, 0, \frac{2}{991}\sqrt{54102}e^{12}, \frac{12}{991}\sqrt{994}e^{13}, \frac{12}{991}\sqrt{994}e^{24},$ $\frac{12}{991}\sqrt{497}e^{14} + \frac{2}{991}\sqrt{40683}e^{23}$	$(\frac{145}{991}, -\frac{130}{991}, \frac{124}{991}, -\frac{151}{991}, \frac{441}{991}, \frac{15}{991}, \frac{269}{991}, -\frac{281}{991}, -\frac{6}{991})$ $+ \frac{10}{991}\sqrt{4686}e^1 \otimes e_8 + \frac{4}{991}\sqrt{18105}e^5 \otimes e_6$	{12457, 1679, 268, 4589}
94:3	$0, 0, 0, 0, 0, \frac{2}{833}\sqrt{7599}e^{12}, \frac{2}{833}\sqrt{44998}e^{13}, \frac{2}{833}\sqrt{30098}e^{24},$ $\frac{2}{833}\sqrt{7599}e^{14} + \frac{10}{833}\sqrt{1043}e^{23}$	$(\frac{129}{833}, \frac{3}{833}, -\frac{46}{833}, -\frac{172}{833}, \frac{381}{833}, \frac{132}{833}, \frac{83}{833}, -\frac{169}{833}, -\frac{43}{833})$ $+ \frac{20}{833}\sqrt{447}e^5 \otimes e_7 + \frac{4}{833}\sqrt{16837}e^1 \otimes e_8$	{1247, 1679, 2568, 4589}
94:3	$0, 0, 0, 0, 0, \frac{2}{1035}\sqrt{53929}e^{12}, \frac{2}{1035}\sqrt{45770}e^{13}, \frac{2}{1035}\sqrt{16318}e^{24},$ $\frac{2}{1035}\sqrt{7363}e^{14} + \frac{2}{1035}\sqrt{7363}e^{23}$	$(\frac{29}{1035}, -\frac{127}{1035}, \frac{20}{69}, \frac{16}{115}, -\frac{41}{115}, -\frac{98}{1035}, \frac{329}{1035}, \frac{17}{1035}, \frac{173}{1035})$ $+ \frac{4}{345}\sqrt{2587}e^1 \otimes e_5 + \frac{4}{345}\sqrt{2587}e^3 \otimes e_6$	{12348, 1467, 245689, 34579}
94:3	$0, 0, 0, 0, 0, \frac{10}{341}\sqrt{51}e^{12}, \frac{2}{341}\sqrt{2190}e^{13}, \frac{2}{341}\sqrt{2190}e^{24},$ $\frac{6}{341}\sqrt{10}e^{14} + \frac{6}{341}\sqrt{10}e^{23}$	$(-\frac{30}{341}, -\frac{30}{341}, \frac{43}{341}, \frac{43}{341}, \frac{25}{341}, -\frac{60}{341}, \frac{13}{341}, \frac{13}{341}, \frac{13}{341})$ $+ \frac{2}{341}\sqrt{2370}e^3 \otimes e_8 + \frac{2}{341}\sqrt{2370}e^4 \otimes e_7$	{1234569, 123469, 125678, 12678}
94:3	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{4}{19}e^{13}, \frac{4}{19}e^{24}, \frac{2}{19}\sqrt{15}e^{14} + \frac{2}{19}\sqrt{11}e^{23}$	$(-\frac{1}{19}, -\frac{1}{19}, \frac{4}{19}, \frac{4}{19}, -\frac{7}{19}, -\frac{2}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19})$ $+ \frac{2}{19}\sqrt{26}e^1 \otimes e_5 + \frac{2}{19}\sqrt{26}e^4 \otimes e_6$	{1247, 1679, 2568, 4589}
94:3	$0, 0, 0, 0, 0, \frac{2}{2609}\sqrt{150285}e^{12}, \frac{6}{2609}\sqrt{4730}e^{13}, \frac{2}{2609}\sqrt{215430}e^{24},$ $\frac{2}{2609}\sqrt{136095}e^{14} + \frac{2}{2609}\sqrt{523095}e^{23}$	$(-\frac{257}{2609}, -\frac{457}{2609}, \frac{576}{2609}, \frac{376}{2609}, \frac{1409}{2609}, -\frac{714}{2609}, \frac{319}{2609}, -\frac{81}{2609}, \frac{119}{2609})$ $+ \frac{120}{2609}\sqrt{215}e^3 \otimes e_6 + \frac{68}{2609}\sqrt{645}e^5 \otimes e_9$	{123458, 14567, 24689, 3479}
94:3	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{222}e^{12}, \frac{12}{131}\sqrt{37}e^{13}, \frac{12}{131}\sqrt{37}e^{24},$ $\frac{2}{131}\sqrt{851}e^{14} + \frac{6}{131}\sqrt{74}e^{23}$	$(\frac{8}{131}, -\frac{33}{131}, \frac{43}{131}, \frac{2}{131}, \frac{49}{131}, -\frac{25}{131}, \frac{51}{131}, -\frac{31}{131}, \frac{10}{131})$ $+ \frac{2}{131}\sqrt{1258}e^5 \otimes e_6 + \frac{2}{131}\sqrt{3034}e^3 \otimes e_8$	{23457, 2589, 3679, 468}
94:3	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{6513}e^{12}, \frac{2}{659}\sqrt{13026}e^{13}, \frac{2}{659}\sqrt{13026}e^{24},$ $\frac{2}{659}\sqrt{26553}e^{14} + \frac{2}{659}\sqrt{2171}e^{23}$	$(\frac{143}{659}, -\frac{29}{659}, \frac{10}{659}, -\frac{162}{659}, \frac{315}{659}, \frac{114}{659}, \frac{153}{659}, -\frac{191}{659}, -\frac{19}{659})$ $+ \frac{4}{659}\sqrt{14362}e^1 \otimes e_8 + \frac{8}{659}\sqrt{2505}e^5 \otimes e_9$	{12457, 1679, 2568, 489}
94:3	$0, 0, 0, 0, 0, \frac{7}{500}\sqrt{517}e^{12}, \frac{1}{500}\sqrt{36190}e^{13}, \frac{1}{250}\sqrt{10857}e^{24},$ $\frac{7}{500}\sqrt{517}e^{14} + \frac{1}{250}\sqrt{3619}e^{23}$	$(-\frac{71}{500}, -\frac{131}{1000}, \frac{187}{500}, \frac{77}{200}, -\frac{71}{250}, -\frac{273}{1000}, \frac{29}{125}, \frac{127}{500}, \frac{243}{1000})$ $+ \frac{1}{250}\sqrt{38822}e^4 \otimes e_6 + \frac{7}{500}\sqrt{2726}e^3 \otimes e_5$	{1234, 1369, 23678, 34789}
94:3	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{1653}e^{12}, \frac{2}{353}\sqrt{3306}e^{13}, \frac{2}{353}\sqrt{3306}e^{24},$ $\frac{2}{353}\sqrt{667}e^{14} + \frac{2}{353}\sqrt{667}e^{23}$	$(\frac{45}{353}, \frac{45}{353}, -\frac{58}{353}, -\frac{58}{353}, \frac{33}{353}, \frac{90}{353}, -\frac{13}{353}, -\frac{13}{353}, -\frac{13}{353})$ $+ \frac{8}{353}\sqrt{290}e^1 \otimes e_8 + \frac{8}{353}\sqrt{290}e^2 \otimes e_7$	{123459, 12349, 34578, 3478}
94:3	$0, 0, 0, 0, 0, \frac{34}{1001}\sqrt{69}e^{12}, \frac{51}{1001}\sqrt{37}e^{13}, \frac{17}{1001}\sqrt{114}e^{24},$ $\frac{17}{1001}\sqrt{165}e^{14} + \frac{17}{1001}\sqrt{127}e^{23}$	$(\frac{68}{1001}, -\frac{170}{1001}, \frac{17}{91}, -\frac{51}{1001}, \frac{306}{1001}, -\frac{102}{1001}, \frac{255}{1001}, -\frac{17}{77}, \frac{17}{1001})$ $+ \frac{17}{1001}\sqrt{435}e^5 \otimes e_9 + \frac{17}{1001}\sqrt{733}e^1 \otimes e_8 + \frac{51}{1001}\sqrt{73}e^3 \otimes e_6$	{12345, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:3	$0, 0, 0, 0, 0, \frac{2}{115}\sqrt{483}e^{12}, \frac{4}{115}\sqrt{231}e^{13}, \frac{6}{115}\sqrt{70}e^{24},$ $\frac{4}{115}\sqrt{42}e^{14} + \frac{2}{115}\sqrt{42}e^{23}$	$(-\frac{18}{115}, \frac{6}{115}, \frac{11}{115}, \frac{7}{23}, -\frac{31}{115}, -\frac{12}{115}, -\frac{7}{115}, \frac{41}{115}, \frac{17}{115})$ $+ \frac{2}{115}\sqrt{1302}e^4 \otimes e_7 + \frac{42}{115}\sqrt{2}e^3 \otimes e_5$	{1348, 1579, 367, 45689}
94:3	$0, 0, 0, 0, 0, \frac{14}{279}\sqrt{190}e^{12}, \frac{2}{279}\sqrt{8246}e^{13}, \frac{8}{279}\sqrt{133}e^{24},$ $\frac{14}{279}\sqrt{190}e^{14} + \frac{2}{279}\sqrt{6251}e^{23}$	$(\frac{77}{279}, \frac{38}{279}, \frac{10}{93}, -\frac{1}{31}, -\frac{21}{31}, \frac{115}{279}, \frac{107}{279}, \frac{29}{279}, \frac{68}{279})$ $+ \frac{2}{93}\sqrt{3458}e^1 \otimes e_5$	{1239, 12478, 1346, 16789, 23456789, 256, 3578, 459}
94:3	$0, 0, 0, 0, 0, \frac{16}{917}\sqrt{213}e^{12}, \frac{4}{917}\sqrt{2201}e^{13}, \frac{2}{917}\sqrt{18034}e^{24},$ $\frac{16}{917}\sqrt{213}e^{14} + \frac{2}{917}\sqrt{16259}e^{23}$	$(\frac{19}{917}, -\frac{142}{917}, \frac{180}{917}, \frac{19}{917}, \frac{75}{917}, -\frac{123}{917}, \frac{199}{917}, -\frac{123}{917}, \frac{38}{917})$ $- \frac{2}{917}\sqrt{27690}e^4 \otimes e_6 + \frac{4}{917}\sqrt{8023}e^1 \otimes e_8$	{12457, 1247, 15679, 1679, 2568, 268, 4589, 489}
94:3	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{35}e^{12}, \frac{2}{63}\sqrt{42}e^{13}, \frac{4}{63}\sqrt{14}e^{24},$ $\frac{2}{63}\sqrt{35}e^{14} + \frac{1}{63}\sqrt{203}e^{23}$	$(0, -\frac{1}{9}, \frac{1}{9}, 0, \frac{2}{9}, -\frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, 0)$ $+ \frac{1}{63}\sqrt{133}e^5 \otimes e_7 - \frac{1}{63}\sqrt{301}e^4 \otimes e_6 + \frac{1}{63}\sqrt{385}e^1 \otimes e_8$	{1247, 1679, 2568, 4589}
94:3	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{35}e^{12}, \frac{6}{89}\sqrt{70}e^{13}, \frac{6}{89}\sqrt{70}e^{24},$ $\frac{6}{89}\sqrt{155}e^{14} + \frac{6}{89}\sqrt{155}e^{23}$	$(\frac{3}{89}, \frac{3}{89}, -\frac{4}{89}, -\frac{4}{89}, 1, \frac{6}{89}, -\frac{1}{89}, -\frac{1}{89}, -\frac{1}{89})$ $+ \frac{12}{89}\sqrt{95}e^5 \otimes e_9$	{12345678, 1269, 13789, 145, 3469, 5678}
94:3	$0, 0, 0, 0, 0, \frac{39}{1169}\sqrt{47}e^{12}, \frac{26}{1169}\sqrt{59}e^{13}, \frac{13}{1169}\sqrt{541}e^{24},$ $\frac{39}{1169}\sqrt{33}e^{14} + \frac{13}{1169}\sqrt{446}e^{23}$	$(\frac{13}{1169}, -\frac{169}{1169}, \frac{195}{1169}, \frac{13}{1169}, \frac{195}{1169}, -\frac{156}{1169}, \frac{208}{1169}, -\frac{156}{1169}, \frac{26}{1169})$ $+ \frac{13}{1169}\sqrt{1033}e^1 \otimes e_8 + \frac{13}{1169}\sqrt{210}e^5 \otimes e_9 + \frac{13}{1169}\sqrt{915}e^4 \otimes e_6$	{12457, 1679, 2568, 489}
94:3	$0, 0, 0, 0, 0, \frac{2}{845}\sqrt{19311}e^{12}, \frac{12}{845}\sqrt{1230}e^{13}, \frac{2}{845}\sqrt{31857}e^{24},$ $\frac{2}{845}\sqrt{19311}e^{14} + \frac{2}{845}\sqrt{9717}e^{23}$	$(\frac{24}{845}, -\frac{111}{845}, \frac{103}{845}, -\frac{32}{845}, \frac{373}{845}, -\frac{87}{845}, \frac{127}{845}, -\frac{11}{65}, -\frac{8}{845})$ $+ \frac{4}{845}\sqrt{14514}e^3 \otimes e_8 + \frac{6}{845}\sqrt{4141}e^5 \otimes e_7$	{2347, 2589, 3679, 4568}
94:3	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{10767}e^{12}, \frac{10}{541}\sqrt{582}e^{13}, \frac{2}{541}\sqrt{7566}e^{24},$ $\frac{2}{541}\sqrt{291}e^{14} + \frac{2}{541}\sqrt{2231}e^{23}$	$(\frac{61}{541}, -\frac{109}{541}, \frac{146}{541}, -\frac{24}{541}, \frac{57}{541}, -\frac{48}{541}, \frac{207}{541}, -\frac{133}{541}, \frac{37}{541})$ $+ \frac{12}{541}\sqrt{582}e^3 \otimes e_6 + \frac{4}{541}\sqrt{6499}e^1 \otimes e_8$	{15679, 1679, 2568, 268}
94:3	$0, 0, 0, 0, 0, \frac{4}{1267}\sqrt{21}e^{12}, \frac{3}{1267}\sqrt{358}e^{13}, \frac{3}{1267}\sqrt{358}e^{24},$ $\frac{4}{1267}\sqrt{1326}e^{14} + \frac{6}{1267}\sqrt{69}e^{23}$	$(\frac{11}{1267}, \frac{25}{1267}, -\frac{31}{1267}, -\frac{17}{1267}, -\frac{3}{1267}, \frac{36}{1267}, -\frac{20}{1267}, \frac{8}{1267}, -\frac{6}{1267})$ $+ \frac{1}{1267}\sqrt{3894}e^4 \otimes e_7 + \frac{1}{1267}\sqrt{570}e^5 \otimes e_9 + \frac{9}{1267}\sqrt{46}e^1 \otimes e_8$	{1579, 45689}
94:3	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{4}{49}\sqrt{15}e^{13}, \frac{4}{49}\sqrt{15}e^{24},$ $\frac{2}{49}\sqrt{10}e^{14} + \frac{2}{49}\sqrt{10}e^{23}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{6}e^5 \otimes e_9 + \frac{2}{49}\sqrt{86}e^1 \otimes e_8 + \frac{2}{49}\sqrt{86}e^2 \otimes e_7$	{12349, 34578}
94:3	$0, 0, 0, 0, 0, \frac{3}{92}\sqrt{287}e^{12}, \frac{3}{46}\sqrt{133}e^{13}, \frac{3}{46}\sqrt{133}e^{24},$ $\frac{3}{92}\sqrt{287}e^{14} + \frac{3}{92}\sqrt{266}e^{23}$	$(\frac{4}{23}, -\frac{47}{184}, \frac{35}{92}, -\frac{9}{184}, \frac{13}{92}, -\frac{15}{184}, \frac{51}{92}, -\frac{7}{23}, \frac{1}{8})$ $+ \frac{3}{92}\sqrt{1106}e^3 \otimes e_8$	{23457, 2347, 2589, 289, 35679, 3679, 4568, 468}
94:3	$0, 0, 0, 0, 0, \frac{68}{1141}\sqrt{15}e^{12}, \frac{51}{1141}\sqrt{74}e^{13}, \frac{17}{1141}\sqrt{762}e^{24},$ $\frac{68}{1141}\sqrt{94}e^{14} + \frac{17}{1141}\sqrt{15}e^{23}$	$(-\frac{170}{1141}, -\frac{51}{1141}, \frac{68}{1141}, \frac{187}{1141}, \frac{425}{1141}, -\frac{221}{1141}, -\frac{102}{1141}, \frac{136}{1141}, \frac{17}{1141})$ $+ \frac{17}{1141}\sqrt{382}e^3 \otimes e_6 + \frac{17}{1141}\sqrt{670}e^5 \otimes e_8 + \frac{85}{1141}\sqrt{42}e^4 \otimes e_7$	{1348, 4689}
94:3	$0, 0, 0, 0, 0, \frac{3}{100}\sqrt{35}e^{12}, \frac{3}{50}\sqrt{85}e^{13}, \frac{3}{50}\sqrt{55}e^{24},$ $\frac{3}{100}\sqrt{35}e^{14} + \frac{3}{20}\sqrt{2}e^{23}$	$(\frac{1}{5}, -\frac{1}{8}, \frac{1}{4}, -\frac{3}{40}, -\frac{1}{4}, \frac{3}{40}, \frac{9}{20}, -\frac{1}{5}, \frac{1}{8})$ $+ \frac{3}{100}\sqrt{530}e^3 \otimes e_8 + \frac{9}{50}\sqrt{10}e^1 \otimes e_5$	{23457, 2589, 35679, 4568}
94:3	$0, 0, 0, 0, 0, \frac{2}{133}\sqrt{615}e^{12}, \frac{4}{133}\sqrt{246}e^{13}, \frac{6}{133}\sqrt{82}e^{24},$ $\frac{2}{133}\sqrt{779}e^{14} + \frac{2}{133}\sqrt{615}e^{23}$	$(-\frac{5}{133}, -\frac{33}{133}, \frac{44}{133}, \frac{16}{133}, \frac{65}{133}, -\frac{2}{7}, \frac{39}{133}, -\frac{17}{133}, \frac{11}{133})$ $+ \frac{10}{133}\sqrt{82}e^5 \otimes e_8 + \frac{4}{133}\sqrt{697}e^3 \otimes e_6$	{1238, 1567, 2689, 3579}
94:3	$0, 0, 0, 0, 0, \frac{80}{2981}\sqrt{15}e^{12}, \frac{30}{2981}\sqrt{1670}e^{13}, \frac{20}{2981}\sqrt{2265}e^{24},$ $\frac{80}{2981}\sqrt{105}e^{14} + \frac{10}{2981}\sqrt{9915}e^{23}$	$(-\frac{185}{2981}, \frac{380}{2981}, -\frac{82}{2981}, \frac{483}{2981}, -\frac{85}{271}, \frac{195}{2981}, -\frac{267}{2981}, \frac{863}{2981}, \frac{298}{2981})$ $+ \frac{20}{2981}\sqrt{5730}e^4 \otimes e_7 + \frac{30}{2981}\sqrt{1990}e^1 \otimes e_5$	{1348, 179, 3567, 45689}
94:3	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{21}e^{12}, \frac{2}{19}\sqrt{42}e^{13}, \frac{2}{19}\sqrt{42}e^{24},$ $\frac{2}{19}\sqrt{21}e^{14} + \frac{2}{19}\sqrt{35}e^{23}$	$(\frac{7}{19}, -\frac{1}{19}, \frac{2}{19}, -\frac{6}{19}, \frac{3}{19}, \frac{6}{19}, \frac{9}{19}, -\frac{7}{19}, \frac{1}{19})$ $+ \frac{8}{19}\sqrt{7}e^1 \otimes e_8$	{12457, 1247, 15679, 1679, 2568, 268, 4589, 489}
94:3	$0, 0, 0, 0, 0, \frac{14}{279}\sqrt{190}e^{12}, \frac{2}{279}\sqrt{8246}e^{13}, \frac{8}{279}\sqrt{133}e^{24},$ $\frac{14}{279}\sqrt{6251}e^{14} + \frac{14}{279}\sqrt{190}e^{23}$	$(-\frac{40}{279}, -\frac{79}{279}, \frac{49}{93}, \frac{12}{31}, \frac{5}{31}, -\frac{119}{279}, \frac{107}{279}, \frac{29}{279}, \frac{68}{279})$ $+ \frac{2}{93}\sqrt{3458}e^3 \otimes e_6$	{123, 1235, 15678, 1678, 2569, 269, 35789, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:3	$0, 0, 0, 0, 0, \frac{1}{18}\sqrt{322e^{12}}, \frac{1}{18}\sqrt{46e^{13}}, \frac{1}{18}\sqrt{46e^{24}},$ $\frac{1}{18}\sqrt{23e^{14}} + \frac{1}{18}\sqrt{23e^{23}}$	$(-\frac{5}{36}, -\frac{5}{36}, \frac{1}{4}, \frac{1}{4}, 1, -\frac{5}{18}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{18}\sqrt{690e^5} \otimes e_6$	{12345789, 125, 13678, 1469, 345, 5789}
94:3	$0, 0, 0, 0, 0, \frac{18}{833}\sqrt{102e^{12}}, \frac{36}{833}\sqrt{67e^{13}}, \frac{54}{833}\sqrt{13e^{24}},$ $\frac{18}{833}\sqrt{17e^{14}} + \frac{36}{833}\sqrt{14e^{23}}$	$(\frac{27}{833}, -\frac{99}{833}, \frac{90}{833}, -\frac{36}{833}, \frac{279}{833}, -\frac{72}{833}, \frac{117}{833}, -\frac{135}{833}, -\frac{9}{833})$ $+ \frac{18}{833}\sqrt{215e^5} \otimes e_7 + \frac{18}{833}\sqrt{238e^3} \otimes e_6 + \frac{36}{833}\sqrt{79e^1} \otimes e_8$	{123459, 3478}
94:3	$0, 0, 0, 0, 0, \frac{4}{243}\sqrt{3e^{12}}, \frac{4}{243}\sqrt{23e^{13}}, \frac{4}{243}\sqrt{23e^{24}},$ $\frac{2}{243}\sqrt{46e^{14}} + \frac{2}{243}\sqrt{67e^{23}}$	$(\frac{1}{243}, \frac{4}{243}, -\frac{8}{243}, -\frac{5}{243}, \frac{17}{243}, \frac{5}{243}, -\frac{7}{243}, -\frac{1}{243}, -\frac{4}{243})$ $+ \frac{2}{243}\sqrt{110e^1} \otimes e_8 + \frac{4}{243}\sqrt{29e^4} \otimes e_7$	{1579, 179, 45689, 4689}
94:3	$0, 0, 0, 0, 0, \frac{3}{77}\sqrt{30e^{12}}, \frac{1}{77}\sqrt{390e^{13}}, \frac{1}{77}\sqrt{390e^{24}},$ $\frac{1}{77}\sqrt{10e^{14}} + \frac{1}{77}\sqrt{10e^{23}}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{4}{77}, \frac{4}{77})$ $+ \frac{1}{77}\sqrt{110e^5} \otimes e_6 + \frac{1}{77}\sqrt{410e^3} \otimes e_8 + \frac{1}{77}\sqrt{410e^4} \otimes e_7$	{1234569, 125678}
94:3	$0, 0, 0, 0, 0, \frac{3}{100}\sqrt{35e^{12}}, \frac{3}{50}\sqrt{85e^{13}}, \frac{3}{50}\sqrt{55e^{24}},$ $\frac{3}{20}\sqrt{2e^{14}} + \frac{3}{100}\sqrt{35e^{23}}$	$(-\frac{49}{200}, -\frac{1}{25}, \frac{33}{200}, \frac{37}{100}, \frac{11}{100}, -\frac{57}{200}, -\frac{2}{25}, \frac{33}{100}, \frac{1}{8})$ $+ \frac{3}{100}\sqrt{530e^4} \otimes e_7 + \frac{9}{50}\sqrt{10e^3} \otimes e_6$	{13458, 1348, 45689, 4689}
94:3	$0, 0, 0, 0, 0, \frac{16}{917}\sqrt{213e^{12}}, \frac{4}{917}\sqrt{2201e^{13}}, \frac{2}{917}\sqrt{18034e^{24}},$ $\frac{16}{917}\sqrt{213e^{14}} + \frac{2}{917}\sqrt{16259e^{23}}$	$(\frac{19}{917}, -\frac{142}{917}, \frac{180}{917}, \frac{19}{917}, \frac{75}{917}, -\frac{123}{917}, \frac{199}{917}, -\frac{123}{917}, \frac{38}{917})$ $+ \frac{2}{917}\sqrt{27690e^4} \otimes e_6 + \frac{4}{917}\sqrt{8023e^1} \otimes e_8$	{12457, 1247, 15679, 1679, 2568, 268, 4589, 489}
94:3	$0, 0, 0, 0, 0, \frac{9}{721}\sqrt{298e^{12}}, \frac{9}{721}\sqrt{366e^{13}}, \frac{9}{721}\sqrt{366e^{24}},$ $\frac{18}{721}\sqrt{23e^{14}} + \frac{18}{721}\sqrt{23e^{23}}$	$(\frac{45}{721}, \frac{45}{721}, -\frac{81}{721}, -\frac{81}{721}, \frac{171}{721}, \frac{90}{721}, -\frac{36}{721}, -\frac{36}{721}, -\frac{36}{721})$ $+ \frac{45}{721}\sqrt{22e^1} \otimes e_8 + \frac{45}{721}\sqrt{22e^2} \otimes e_7 + \frac{9}{721}\sqrt{230e^5} \otimes e_6$	{123459, 34578}
94:3	$0, 0, 0, 0, 0, \frac{39}{1169}\sqrt{47e^{12}}, \frac{26}{1169}\sqrt{59e^{13}}, \frac{13}{1169}\sqrt{541e^{24}},$ $\frac{52}{1169}\sqrt{33e^{14}} + \frac{13}{1169}\sqrt{446e^{23}}$	$(\frac{13}{1169}, -\frac{169}{1169}, \frac{195}{1169}, \frac{13}{1169}, \frac{195}{1169}, -\frac{156}{1169}, \frac{208}{1169}, -\frac{156}{1169}, \frac{26}{1169})$ $+ \frac{13}{1169}\sqrt{1033e^1} \otimes e_8 + \frac{13}{1169}\sqrt{210e^5} \otimes e_9 - \frac{13}{1169}\sqrt{915e^4} \otimes e_6$	{12457, 1679, 2568, 489}
94:3	$0, 0, 0, 0, 0, \frac{22}{1127}\sqrt{78e^{12}}, \frac{66}{1127}\sqrt{34e^{13}}, \frac{11}{1127}\sqrt{606e^{24}},$ $\frac{22}{1127}\sqrt{231e^{14}} + \frac{11}{1127}\sqrt{618e^{23}}$	$(-\frac{209}{1127}, -\frac{55}{1127}, \frac{99}{1127}, \frac{11}{1127}, \frac{407}{1127}, -\frac{264}{1127}, -\frac{110}{1127}, \frac{198}{1127}, \frac{44}{1127})$ $+ \frac{22}{1127}\sqrt{465e^5} \otimes e_9 + \frac{33}{1127}\sqrt{206e^3} \otimes e_6 + \frac{33}{1127}\sqrt{274e^4} \otimes e_7$	{126789, 23578}
94:3	$0, 0, 0, 0, 0, \frac{4}{617}\sqrt{831e^{12}}, \frac{6}{617}\sqrt{3047e^{13}}, \frac{1}{617}\sqrt{68142e^{24}},$ $\frac{4}{617}\sqrt{831e^{14}} + \frac{5}{617}\sqrt{554e^{23}}$	$(\frac{146}{617}, -\frac{53}{617}, \frac{121}{617}, -\frac{78}{617}, -\frac{156}{617}, \frac{93}{617}, \frac{267}{617}, -\frac{131}{617}, \frac{68}{617})$ $+ \frac{15}{617}\sqrt{554e^3} \otimes e_5 + \frac{1}{617}\sqrt{178942e^1} \otimes e_8$	{12457, 15679, 2568, 4589}
94:3	$0, 0, 0, 0, 0, \frac{2}{541}\sqrt{10767e^{12}}, \frac{10}{541}\sqrt{582e^{13}}, \frac{2}{541}\sqrt{7566e^{24}},$ $\frac{2}{541}\sqrt{2231e^{14}} + \frac{2}{541}\sqrt{291e^{23}}$	$(\frac{35}{541}, \frac{133}{541}, -\frac{96}{541}, \frac{2}{541}, -\frac{159}{541}, \frac{168}{541}, -\frac{61}{541}, \frac{135}{541}, \frac{37}{541})$ $+ \frac{12}{541}\sqrt{582e^1} \otimes e_5 + \frac{4}{541}\sqrt{6499e^2} \otimes e_7$	{1238, 167, 25689, 3579}
94:3	$0, 0, 0, 0, 0, \frac{10}{103}\sqrt{11e^{12}}, \frac{40}{103}\sqrt{2e^{13}}, \frac{10}{103}e^{24},$ $\frac{10}{103}\sqrt{15e^{14}} + \frac{10}{103}\sqrt{11e^{23}}$	$(-\frac{18}{103}, -\frac{13}{103}, \frac{19}{103}, \frac{24}{103}, \frac{51}{103}, -\frac{31}{103}, \frac{1}{103}, \frac{11}{103}, \frac{6}{103})$ $+ \frac{10}{103}\sqrt{41e^5} \otimes e_7 + \frac{20}{103}\sqrt{13e^3} \otimes e_6$	{12358, 167, 25689, 379}
94:3	$0, 0, 0, 0, 0, \frac{2}{69}\sqrt{215e^{12}}, \frac{4}{69}\sqrt{301e^{13}}, \frac{2}{23}\sqrt{43e^{24}},$ $\frac{2}{69}\sqrt{215e^{14}} + \frac{2}{69}\sqrt{215e^{23}}$	$(-\frac{2}{23}, \frac{13}{69}, -\frac{11}{69}, \frac{8}{69}, 1, \frac{7}{69}, -\frac{17}{69}, \frac{7}{23}, \frac{2}{69})$ $+ \frac{2}{69}\sqrt{2451e^5} \otimes e_7$	{1234569, 12678, 135, 14789, 23789, 245, 34678, 569}
94:3	$0, 0, 0, 0, 0, \frac{8}{3437}\sqrt{2586e^{12}}, \frac{4}{3437}\sqrt{70253e^{13}}, \frac{4}{3437}\sqrt{119818e^{24}},$ $\frac{8}{3437}\sqrt{338766e^{14}} + \frac{2}{3437}\sqrt{336611e^{23}}$	$(\frac{523}{3437}, -\frac{124}{3437}, \frac{432}{3437}, -\frac{215}{3437}, -\frac{1077}{3437}, \frac{57}{491}, \frac{955}{3437}, -\frac{339}{3437}, \frac{44}{491})$ $+ \frac{2}{3437}\sqrt{755974e^1} \otimes e_8 + \frac{4}{3437}\sqrt{148695e^4} \otimes e_5$	{1247, 15679, 2568, 489}
94:3	$0, 0, 0, 0, 0, \frac{2}{427}\sqrt{42e^{12}}, \frac{12}{427}\sqrt{7e^{13}}, \frac{12}{427}\sqrt{7e^{24}},$ $\frac{6}{427}\sqrt{14e^{14}} + \frac{1}{427}\sqrt{723e^{23}}$	$(\frac{4}{427}, \frac{11}{427}, -\frac{17}{427}, -\frac{10}{427}, \frac{18}{427}, \frac{15}{427}, -\frac{13}{427}, \frac{1}{427}, -\frac{6}{427})$ $+ \frac{1}{427}\sqrt{1185e^1} \otimes e_8 + \frac{3}{427}\sqrt{141e^4} \otimes e_7 + \frac{5}{427}\sqrt{3e^5} \otimes e_6$	{179, 45689}
94:4	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94e^{12}}, \frac{1}{38}\sqrt{517e^{34}}, \frac{1}{38}\sqrt{235e^{14}} - \frac{1}{38}\sqrt{235e^{23}},$ $\frac{1}{38}\sqrt{235e^{13}} + \frac{1}{38}\sqrt{235e^{24}}$	$(-\frac{9}{76}, -\frac{9}{76}, \frac{3}{19}, \frac{3}{19}, 1, -\frac{9}{38}, \frac{6}{19}, \frac{3}{76}, \frac{3}{76})$ $+ \frac{3}{38}\sqrt{329e^5} \otimes e_6$	{1234589, 125, 13679, 345, 589, 1234589, 125, 13679, 345, 589}
94:4	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94e^{12}}, \frac{1}{38}\sqrt{517e^{34}}, \frac{1}{38}\sqrt{235e^{14}} + \frac{1}{38}\sqrt{235e^{23}},$ $\frac{1}{38}\sqrt{235e^{13}} + \frac{1}{38}\sqrt{235e^{24}}$	$(-\frac{9}{76}, -\frac{9}{76}, \frac{3}{19}, \frac{3}{19}, 1, -\frac{9}{38}, \frac{6}{19}, \frac{3}{76}, \frac{3}{76})$ $+ \frac{3}{38}\sqrt{329e^5} \otimes e_6$	{1234589, 125, 13679, 345, 589, 1234589, 125, 13679, 345, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:4	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{10686}e^{12}, \frac{1}{76}\sqrt{274}e^{34}, \frac{1}{152}\sqrt{11234}e^{14} - \frac{1}{152}\sqrt{6439}e^{23},$ $\frac{1}{152}\sqrt{11234}e^{13} + \frac{1}{152}\sqrt{6439}e^{24}$	$(\frac{31}{152}, \frac{31}{152}, \frac{1}{16}, \frac{1}{16}, -\frac{53}{76}, \frac{31}{76}, \frac{1}{8}, \frac{81}{304}, \frac{81}{304})$ $+ \frac{1}{152}\sqrt{35346}e^1 \otimes e_5$	{1238, 13467, 16789, 23456789, 2567, 359, 1238, 13467, 16789, 23456789, 2567, 359}
94:4	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{10686}e^{12}, \frac{1}{76}\sqrt{274}e^{34}, \frac{1}{152}\sqrt{11234}e^{14} + \frac{1}{152}\sqrt{6439}e^{23},$ $\frac{1}{152}\sqrt{11234}e^{13} + \frac{1}{152}\sqrt{6439}e^{24}$	$(\frac{31}{152}, \frac{31}{152}, \frac{1}{16}, \frac{1}{16}, -\frac{53}{76}, \frac{31}{76}, \frac{1}{8}, \frac{81}{304}, \frac{81}{304})$ $+ \frac{1}{152}\sqrt{35346}e^1 \otimes e_5$	{1238, 13467, 16789, 23456789, 2567, 359, 1238, 13467, 16789, 23456789, 2567, 359}
94:4	$0, 0, 0, 0, 0, \frac{3}{49}\sqrt{42}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{5}{49}\sqrt{21}e^{14} - \frac{3}{49}\sqrt{7}e^{23},$ $\frac{3}{49}\sqrt{21}e^{13} + \frac{1}{49}\sqrt{399}e^{24}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0)$ $+ \frac{2}{7}\sqrt{6}e^1 \otimes e_7 + \frac{4}{49}\sqrt{42}e^5 \otimes e_8$	{13456, 1689, 3579, 478, 13456, 1689, 3579, 478}
94:4	$0, 0, 0, 0, 0, \frac{3}{49}\sqrt{42}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{5}{49}\sqrt{21}e^{14} + \frac{3}{49}\sqrt{7}e^{23},$ $\frac{3}{49}\sqrt{21}e^{13} + \frac{1}{49}\sqrt{399}e^{24}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, \frac{2}{7}, -\frac{2}{7}, 0, 0)$ $+ \frac{2}{7}\sqrt{6}e^1 \otimes e_7 + \frac{4}{49}\sqrt{42}e^5 \otimes e_8$	{13456, 1689, 3579, 478, 13456, 1689, 3579, 478}
94:4	$0, 0, 0, 0, 0, \frac{11}{441}\sqrt{358}e^{12}, \frac{11}{441}\sqrt{258}e^{34}, \frac{11}{441}\sqrt{79}e^{14} - \frac{55}{441}\sqrt{7}e^{23},$ $\frac{11}{441}\sqrt{79}e^{13} + \frac{55}{441}\sqrt{7}e^{24}$	$(\frac{11}{147}, \frac{11}{147}, -\frac{44}{441}, -\frac{44}{441}, \frac{187}{441}, \frac{22}{147}, -\frac{88}{441}, -\frac{11}{441}, -\frac{11}{441})$ $+ \frac{110}{441}\sqrt{3}e^5 \otimes e_6 + \frac{22}{441}\sqrt{127}e^1 \otimes e_7$	{1346, 1689, 3579, 1346, 1689, 3579}
94:4	$0, 0, 0, 0, 0, \frac{11}{441}\sqrt{358}e^{12}, \frac{11}{441}\sqrt{258}e^{34}, \frac{11}{441}\sqrt{79}e^{14} + \frac{55}{441}\sqrt{7}e^{23},$ $\frac{11}{441}\sqrt{79}e^{13} + \frac{55}{441}\sqrt{7}e^{24}$	$(\frac{11}{147}, \frac{11}{147}, -\frac{44}{441}, -\frac{44}{441}, \frac{187}{441}, \frac{22}{147}, -\frac{88}{441}, -\frac{11}{441}, -\frac{11}{441})$ $+ \frac{110}{441}\sqrt{3}e^5 \otimes e_6 + \frac{22}{441}\sqrt{127}e^1 \otimes e_7$	{1346, 1689, 3579, 1346, 1689, 3579}
94:4	$0, 0, 0, 0, 0, \frac{19}{1449}\sqrt{958}e^{12}, \frac{19}{1449}\sqrt{582}e^{34},$ $\frac{19}{1449}\sqrt{91}e^{14} - \frac{19}{1449}\sqrt{103}e^{23}, \frac{19}{1449}\sqrt{667}e^{13} + \frac{19}{1449}\sqrt{655}e^{24}$	$(-\frac{76}{1449}, -\frac{76}{1449}, \frac{209}{1449}, \frac{209}{1449}, -\frac{19}{63}, -\frac{152}{1449}, \frac{418}{1449}, \frac{19}{207}, \frac{19}{207})$ $+ \frac{38}{1449}\sqrt{282}e^1 \otimes e_5 + \frac{38}{1449}\sqrt{379}e^3 \otimes e_6$	{1237, 169, 2568, 35789, 1237, 169, 2568, 35789}
94:4	$0, 0, 0, 0, 0, \frac{19}{1449}\sqrt{958}e^{12}, \frac{19}{1449}\sqrt{582}e^{34},$ $\frac{19}{1449}\sqrt{91}e^{14} + \frac{19}{1449}\sqrt{103}e^{23}, \frac{19}{1449}\sqrt{667}e^{13} + \frac{19}{1449}\sqrt{655}e^{24}$	$(-\frac{76}{1449}, -\frac{76}{1449}, \frac{209}{1449}, \frac{209}{1449}, -\frac{19}{63}, -\frac{152}{1449}, \frac{418}{1449}, \frac{19}{207}, \frac{19}{207})$ $+ \frac{38}{1449}\sqrt{282}e^1 \otimes e_5 + \frac{38}{1449}\sqrt{379}e^3 \otimes e_6$	{1237, 169, 2568, 35789, 1237, 169, 2568, 35789}
94:4	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1178}e^{12}, \frac{1}{51}\sqrt{1178}e^{34}, \frac{1}{51}\sqrt{589}e^{14} - \frac{5}{51}\sqrt{31}e^{23},$ $\frac{1}{51}\sqrt{589}e^{13} + \frac{5}{51}\sqrt{31}e^{24}$	$(\frac{13}{51}, \frac{13}{51}, -\frac{3}{17}, -\frac{3}{17}, \frac{7}{51}, \frac{26}{51}, -\frac{6}{17}, \frac{4}{51}, \frac{4}{51})$ $+ \frac{2}{51}\sqrt{682}e^1 \otimes e_7$	{13456, 1346, 15689, 1689, 3579, 379, 13456, 1346, 15689, 1689, 3579, 379}
94:4	$0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1178}e^{12}, \frac{1}{51}\sqrt{1178}e^{34}, \frac{1}{51}\sqrt{589}e^{14} + \frac{5}{51}\sqrt{31}e^{23},$ $\frac{1}{51}\sqrt{589}e^{13} + \frac{5}{51}\sqrt{31}e^{24}$	$(\frac{13}{51}, \frac{13}{51}, -\frac{3}{17}, -\frac{3}{17}, \frac{7}{51}, \frac{26}{51}, -\frac{6}{17}, \frac{4}{51}, \frac{4}{51})$ $+ \frac{2}{51}\sqrt{682}e^1 \otimes e_7$	{13456, 1346, 15689, 1689, 3579, 379, 13456, 1346, 15689, 1689, 3579, 379}
94:4	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{4}{9}e^{34}, \frac{2}{9}e^{14} - \frac{2}{9}e^{23}, \frac{2}{9}e^{13} + \frac{2}{9}e^{24}$	$(\frac{2}{9}, \frac{2}{9}, -\frac{1}{9}, -\frac{1}{9}, -\frac{2}{9}, \frac{4}{9}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{2}{9}\sqrt{10}e^2 \otimes e_7 + \frac{2}{9}\sqrt{6}e^1 \otimes e_5$	{23456, 25689, 3578, 23456, 25689, 3578}
94:4	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{4}{9}e^{34}, \frac{2}{9}e^{14} + \frac{2}{9}e^{23}, \frac{2}{9}e^{13} + \frac{2}{9}e^{24}$	$(\frac{2}{9}, \frac{2}{9}, -\frac{1}{9}, -\frac{1}{9}, -\frac{2}{9}, \frac{4}{9}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9})$ $+ \frac{2}{9}\sqrt{10}e^2 \otimes e_7 + \frac{2}{9}\sqrt{6}e^1 \otimes e_5$	{23456, 25689, 3578, 23456, 25689, 3578}
94:4	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{14}e^{12}, \frac{1}{7}\sqrt{14}e^{34}, \frac{1}{7}\sqrt{35}e^{14} - \frac{1}{7}\sqrt{35}e^{23},$ $\frac{1}{7}\sqrt{7}e^{13} + \frac{1}{7}\sqrt{7}e^{24}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^5 \otimes e_8$	{12345679, 12678, 1389, 145, 5679, 12345679, 12678, 1389, 145, 5679}
94:4	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{14}e^{12}, \frac{1}{7}\sqrt{14}e^{34}, \frac{1}{7}\sqrt{35}e^{14} + \frac{1}{7}\sqrt{35}e^{23},$ $\frac{1}{7}\sqrt{7}e^{13} + \frac{1}{7}\sqrt{7}e^{24}$	$(0, 0, 0, 0, 1, 0, 0, 0, 0)$ $+ \frac{2}{7}\sqrt{21}e^5 \otimes e_8$	{12345679, 12678, 1389, 145, 5679, 12345679, 12678, 1389, 145, 5679}
94:5	$0, 0, 0, 0, 0, \frac{8}{121}\sqrt{41}e^{12}, \frac{8}{121}\sqrt{41}e^{13}, \frac{8}{121}\sqrt{41}e^{23}, \frac{2}{121}\sqrt{205}e^{45}$	$(\frac{48}{121}, -\frac{17}{121}, -\frac{17}{121}, \frac{51}{121}, -\frac{31}{121}, \frac{31}{121}, \frac{31}{121}, -\frac{34}{121}, \frac{20}{121})$ $+ \frac{2}{121}\sqrt{2665}e^1 \otimes e_8 + \frac{82}{121}e^4 \otimes e_5$	{12349, 12359, 14679, 15679, 24689, 25689}
94:5	$0, 0, 0, 0, 0, \frac{11}{53}\sqrt{10}e^{12}, \frac{11}{53}\sqrt{10}e^{13}, \frac{11}{159}\sqrt{42}e^{23}, \frac{11}{159}\sqrt{106}e^{45}$	$(\frac{23}{53}, \frac{1}{53}, \frac{1}{53}, -\frac{26}{159}, -\frac{26}{159}, \frac{24}{53}, \frac{24}{53}, \frac{2}{53}, -\frac{52}{159})$ $+ \frac{22}{159}\sqrt{66}e^1 \otimes e_9$	{123458, 1238, 12457, 127, 145678, 1678, 2346789, 2469, 489}
94:5	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{1595}e^{12}, \frac{1}{128}\sqrt{1595}e^{13}, \frac{1}{384}\sqrt{9570}e^{23}, \frac{1}{24}\sqrt{145}e^{45}$	$(\frac{11}{32}, -\frac{25}{256}, -\frac{25}{256}, \frac{35}{192}, -\frac{83}{384}, \frac{63}{256}, \frac{63}{256}, -\frac{25}{128}, -\frac{13}{384})$ $+ \frac{1}{128}\sqrt{4930}e^4 \otimes e_8 + \frac{1}{192}\sqrt{13485}e^1 \otimes e_9$	{12345, 1278, 14567, 234679, 25689, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:5	$0, 0, 0, 0, 0, \frac{10}{937}\sqrt{462}e^{12}, \frac{20}{937}\sqrt{77}e^{13}, \frac{10}{937}\sqrt{462}e^{23}, \frac{44}{937}\sqrt{35}e^{45}$	$\left(\frac{113}{937}, \frac{123}{937}, -\frac{164}{937}, -\frac{134}{937}, \frac{103}{937}, \frac{236}{937}, -\frac{51}{937}, -\frac{41}{937}, -\frac{31}{937}\right)$ $+ \frac{2}{937}\sqrt{18249}e^5 \otimes e_7 + \frac{2}{937}\sqrt{21329}e^1 \otimes e_8 + \frac{2}{937}\sqrt{25949}e^2 \otimes e_9$	{12345, 14679, 24568, 34789}
94:5	$0, 0, 0, 0, 0, \frac{1}{577}\sqrt{12110}e^{12}, \frac{2}{577}\sqrt{455}e^{13}, \frac{14}{577}\sqrt{30}e^{23}, \frac{2}{577}\sqrt{2590}e^{45}$	$\left(\frac{32}{577}, \frac{9}{577}, -\frac{12}{577}, -\frac{102}{577}, \frac{76}{577}, \frac{41}{577}, \frac{20}{577}, -\frac{3}{577}, -\frac{26}{577}\right)$ $+ \frac{10}{577}\sqrt{154}e^2 \otimes e_9 + \frac{2}{577}\sqrt{3115}e^5 \otimes e_6 + \frac{7}{577}\sqrt{190}e^1 \otimes e_8$	{123457, 1469, 2678, 3589}
94:5	$0, 0, 0, 0, 0, \frac{1}{10}\sqrt{41}e^{12}, \frac{1}{10}\sqrt{41}e^{13}, \frac{1}{10}\sqrt{41}e^{23}, \frac{1}{40}\sqrt{205}e^{45}$	$\left(\frac{3}{5}, -\frac{17}{80}, -\frac{17}{80}, \frac{1}{8}, \frac{1}{8}, \frac{31}{80}, \frac{31}{80}, -\frac{17}{40}, \frac{1}{4}\right)$ $+ \frac{1}{40}\sqrt{2665}e^1 \otimes e_8$	{123, 12345, 12349, 14567, 14679, 167, 24568, 24689, 268}
94:5	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{2494}e^{12}, \frac{1}{145}\sqrt{2494}e^{13}, \frac{1}{145}\sqrt{2494}e^{23}, \frac{1}{145}\sqrt{430}e^{45}$	$\left(\frac{22}{145}, \frac{22}{145}, -\frac{43}{145}, \frac{2}{29}, \frac{2}{29}, \frac{44}{145}, -\frac{21}{145}, -\frac{21}{145}, \frac{4}{29}\right)$ $+ \frac{1}{145}\sqrt{5590}e^1 \otimes e_8 + \frac{1}{145}\sqrt{5590}e^2 \otimes e_7$	{123, 12345, 12349, 14567, 14679, 167, 34578, 34789, 378}
94:5	$0, 0, 0, 0, 0, \frac{1}{145}\sqrt{2494}e^{12}, \frac{1}{145}\sqrt{2494}e^{13}, \frac{1}{145}\sqrt{2494}e^{23}, \frac{1}{145}\sqrt{430}e^{45}$	$\left(\frac{22}{145}, \frac{22}{145}, -\frac{43}{145}, \frac{2}{29}, \frac{2}{29}, \frac{44}{145}, -\frac{21}{145}, -\frac{21}{145}, \frac{4}{29}\right)$ $+ \frac{1}{145}\sqrt{5590}e^1 \otimes e_8 - \frac{1}{145}\sqrt{5590}e^2 \otimes e_7$	{123, 12345, 12349, 14567, 14679, 167, 34578, 34789, 378}
94:5	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1702}e^{12}, \frac{1}{293}\sqrt{3266}e^{13}, \frac{1}{293}\sqrt{3266}e^{23}, \frac{2}{293}\sqrt{782}e^{45}$	$\left(\frac{11}{293}, \frac{11}{293}, -\frac{46}{293}, -\frac{9}{293}, \frac{68}{293}, \frac{22}{293}, \frac{35}{293}, -\frac{35}{293}, \frac{59}{293}\right)$ $+ \frac{1}{293}\sqrt{8786}e^1 \otimes e_8 - \frac{1}{293}\sqrt{8786}e^2 \otimes e_7 + \frac{2}{293}\sqrt{1771}e^5 \otimes e_6$	{12345, 12359, 14679, 167, 34578, 35789}
94:5	$0, 0, 0, 0, 0, \frac{2}{2073}\sqrt{127995}e^{12}, \frac{14}{691}\sqrt{106}e^{13}, \frac{1}{2073}\sqrt{184758}e^{23}, \frac{1}{2073}\sqrt{512722}e^{45}$	$\left(\frac{85}{691}, -\frac{82}{691}, \frac{64}{691}, \frac{380}{2073}, -\frac{496}{2073}, \frac{3}{691}, \frac{149}{691}, -\frac{18}{691}, -\frac{116}{2073}\right)$ $+ \frac{2}{2073}\sqrt{162498}e^4 \otimes e_6 + \frac{2}{2073}\sqrt{185871}e^1 \otimes e_9$	{123458, 12457, 136, 1678, 2356789, 2569, 3479, 489}
94:5	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1702}e^{12}, \frac{1}{293}\sqrt{3266}e^{13}, \frac{1}{293}\sqrt{3266}e^{23}, \frac{2}{293}\sqrt{782}e^{45}$	$\left(\frac{11}{293}, \frac{11}{293}, -\frac{46}{293}, -\frac{9}{293}, \frac{68}{293}, \frac{22}{293}, -\frac{35}{293}, -\frac{35}{293}, \frac{59}{293}\right)$ $+ \frac{1}{293}\sqrt{8786}e^1 \otimes e_8 + \frac{1}{293}\sqrt{8786}e^2 \otimes e_7 + \frac{2}{293}\sqrt{1771}e^5 \otimes e_6$	{12345, 12359, 14679, 167, 34578, 35789}
94:5	$0, 0, 0, 0, 0, \frac{2}{1283}\sqrt{19055}e^{12}, \frac{2}{3849}\sqrt{52170}e^{13}, \frac{2}{1283}\sqrt{555}e^{23}, \frac{2}{3849}\sqrt{237355}e^{45}$	$\left(\frac{179}{1283}, -\frac{195}{1283}, \frac{20}{1283}, \frac{322}{1283}, \frac{155}{3849}, -\frac{16}{3849}, \frac{199}{1283}, -\frac{175}{1283}, \frac{167}{3849}\right)$ $+ \frac{10}{3849}\sqrt{9546}e^4 \otimes e_6 + \frac{2}{1283}\sqrt{29415}e^1 \otimes e_9 + \frac{2}{3849}\sqrt{150405}e^5 \otimes e_8$	{12457, 1678, 2569, 489}
94:5	$0, 0, 0, 0, 0, \frac{2}{193}\sqrt{1165}e^{12}, \frac{2}{193}\sqrt{1165}e^{13}, \frac{1}{579}\sqrt{18174}e^{23}, \frac{1}{579}\sqrt{89938}e^{45}$	$\left(-\frac{39}{193}, \frac{4}{193}, \frac{4}{193}, \frac{128}{579}, \frac{128}{579}, -\frac{35}{193}, -\frac{35}{193}, \frac{8}{193}, \frac{256}{579}\right)$ $+ \frac{2}{579}\sqrt{30057}e^4 \otimes e_6 + \frac{2}{579}\sqrt{30057}e^5 \otimes e_7$	{123458, 12479, 1678, 23678, 2569, 458}
94:5	$0, 0, 0, 0, 0, \frac{66}{439}\sqrt{10}e^{12}, \frac{66}{439}\sqrt{10}e^{13}, \frac{22}{439}\sqrt{42}e^{23}, \frac{22}{439}\sqrt{106}e^{45}$	$\left(\frac{138}{439}, \frac{6}{439}, \frac{6}{439}, \frac{69}{439}, -\frac{173}{439}, \frac{144}{439}, \frac{144}{439}, \frac{12}{439}, -\frac{104}{439}\right)$ $+ \frac{242}{439}e^4 \otimes e_5 + \frac{44}{439}\sqrt{66}e^1 \otimes e_9$	{2346789, 2356789, 2469, 2569, 489, 589}
94:5	$0, 0, 0, 0, 0, \frac{6}{329}\sqrt{222}e^{12}, \frac{6}{329}\sqrt{222}e^{13}, \frac{24}{329}e^{23}, \frac{6}{329}\sqrt{314}e^{45}$	$\left(\frac{12}{329}, -\frac{30}{329}, -\frac{30}{329}, \frac{54}{329}, \frac{54}{329}, -\frac{18}{329}, -\frac{18}{329}, -\frac{60}{329}, \frac{108}{329}\right)$ $+ \frac{12}{329}\sqrt{103}e^4 \otimes e_6 + \frac{12}{329}\sqrt{103}e^5 \otimes e_7 + \frac{6}{329}\sqrt{374}e^1 \otimes e_8$	{12345, 167, 25689}
94:5	$0, 0, 0, 0, 0, \frac{2}{333}\sqrt{2494}e^{12}, \frac{2}{333}\sqrt{2494}e^{13}, \frac{2}{333}\sqrt{2494}e^{23}, \frac{2}{333}\sqrt{430}e^{45}$	$\left(\frac{44}{333}, \frac{44}{333}, -\frac{86}{333}, -\frac{23}{333}, \frac{7}{333}, \frac{88}{333}, -\frac{14}{111}, -\frac{14}{111}, \frac{40}{333}\right)$ $+ \frac{2}{333}\sqrt{5590}e^1 \otimes e_8 + \frac{2}{333}\sqrt{5590}e^2 \otimes e_7 + \frac{86}{333}e^5 \otimes e_4$	{12349, 12359, 14679, 15679, 34789, 35789}
94:5	$0, 0, 0, 0, 0, \frac{2}{333}\sqrt{2494}e^{12}, \frac{2}{333}\sqrt{2494}e^{13}, \frac{2}{333}\sqrt{2494}e^{23}, \frac{2}{333}\sqrt{430}e^{45}$	$\left(\frac{44}{333}, \frac{44}{333}, -\frac{86}{333}, -\frac{23}{333}, \frac{7}{333}, \frac{88}{333}, -\frac{14}{111}, -\frac{14}{111}, \frac{40}{333}\right)$ $+ \frac{2}{333}\sqrt{5590}e^1 \otimes e_8 - \frac{2}{333}\sqrt{5590}e^2 \otimes e_7 + \frac{86}{333}e^5 \otimes e_4$	{12349, 12359, 14679, 15679, 34789, 35789}
94:5	$0, 0, 0, 0, 0, \frac{4}{481}\sqrt{2085}e^{12}, \frac{1}{481}\sqrt{278}e^{13}, \frac{4}{481}\sqrt{2085}e^{23}, \frac{1}{481}\sqrt{26966}e^{45}$	$\left(\frac{122}{481}, \frac{51}{481}, -\frac{68}{481}, -\frac{44}{481}, -\frac{44}{481}, \frac{173}{481}, \frac{54}{481}, -\frac{17}{481}, -\frac{88}{481}\right)$ $+ \frac{2}{481}\sqrt{13205}e^1 \otimes e_8 + \frac{2}{481}\sqrt{16541}e^2 \otimes e_9$	{123, 12345, 14679, 24568, 268, 34789}
94:5	$0, 0, 0, 0, 0, \frac{22}{151}\sqrt{6}e^{12}, \frac{22}{151}\sqrt{6}e^{13}, \frac{22}{151}\sqrt{6}e^{23}, \frac{22}{151}\sqrt{10}e^{45}$	$\left(\frac{18}{151}, \frac{18}{151}, \frac{18}{151}, \frac{141}{151}, -\frac{101}{151}, \frac{36}{151}, \frac{36}{151}, \frac{36}{151}, \frac{40}{151}\right)$ $+ \frac{242}{151}e^4 \otimes e_5$	{12349, 12359, 124789, 125789, 14679, 15679, 49, 59}
94:5	$0, 0, 0, 0, 0, \frac{1}{156}\sqrt{16986}e^{12}, \frac{1}{156}\sqrt{2235}e^{13}, \frac{1}{156}\sqrt{2235}e^{23}, \frac{1}{78}\sqrt{3874}e^{45}$	$\left(-\frac{15}{104}, -\frac{15}{104}, \frac{7}{26}, \frac{2}{3}, -\frac{25}{156}, -\frac{15}{52}, \frac{1}{8}, \frac{1}{8}, \frac{79}{156}\right)$ $+ \frac{1}{156}\sqrt{38442}e^4 \otimes e_6$	{1234578, 1234789, 1245, 1249, 135679, 1367, 15689, 168, 345, 349, 4578, 4789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:5	$0, 0, 0, 0, 0, \frac{4}{399}\sqrt{21}e^{12}, \frac{4}{399}\sqrt{21}e^{13}, \frac{1}{399}\sqrt{186}e^{23}, \frac{2}{399}\sqrt{133}e^{45}$	$(\frac{4}{133}, -\frac{3}{133}, -\frac{3}{133}, \frac{5}{399}, \frac{5}{399}, \frac{1}{133}, \frac{1}{133}, -\frac{6}{133}, \frac{10}{399})$ $+ \frac{1}{399}\sqrt{438}e^4 \otimes e_6 + \frac{1}{399}\sqrt{438}e^5 \otimes e_7 + \frac{1}{399}\sqrt{606}e^1 \otimes e_9$	{123458, 1678, 2569}
94:5	$0, 0, 0, 0, 0, \frac{1}{449}\sqrt{51090}e^{12}, \frac{2}{449}\sqrt{2730}e^{13}, \frac{2}{449}\sqrt{2730}e^{23}, \frac{2}{449}\sqrt{8385}e^{45}$	$(\frac{84}{449}, -\frac{107}{449}, -\frac{4}{449}, \frac{172}{449}, -\frac{34}{449}, -\frac{23}{449}, \frac{80}{449}, -\frac{111}{449}, \frac{138}{449})$ $+ \frac{1}{449}\sqrt{74490}e^1 \otimes e_8 + \frac{2}{449}\sqrt{20085}e^4 \otimes e_6$	{12345, 12349, 15679, 167, 25689, 268, 34578, 34789}
94:5	$0, 0, 0, 0, 0, \frac{8}{1101}\sqrt{2085}e^{12}, \frac{2}{1101}\sqrt{278}e^{13}, \frac{8}{1101}\sqrt{2085}e^{23}, \frac{2}{1101}\sqrt{26966}e^{45}$	$(\frac{244}{1101}, \frac{34}{367}, -\frac{136}{1101}, -\frac{227}{1101}, \frac{17}{367}, \frac{346}{1101}, \frac{36}{367}, -\frac{34}{1101}, \frac{176}{1101})$ $+ \frac{278}{1101}e^5 \otimes e_4 + \frac{4}{1101}\sqrt{13205}e^1 \otimes e_8 + \frac{4}{1101}\sqrt{16541}e^2 \otimes e_9$	{14679, 15679, 34789, 35789}
94:6	$0, 0, 0, 0, 0, \frac{7}{152}\sqrt{138}e^{12}, \frac{1}{304}\sqrt{4186}e^{13}, \frac{1}{304}\sqrt{6279}e^{14}, \frac{1}{304}\sqrt{6279}e^{15}$	$(\frac{39}{304}, \frac{39}{152}, -\frac{61}{152}, \frac{27}{608}, \frac{27}{608}, \frac{117}{304}, -\frac{83}{304}, \frac{105}{608}, \frac{105}{608})$ $+ \frac{1}{152}\sqrt{11431}e^1 \otimes e_3 + \frac{1}{304}\sqrt{41538}e^2 \otimes e_7$	{14567, 14679, 16789, 345789, 3478, 37}
94:6	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{510}e^{12}, \frac{5}{71}\sqrt{3}e^{13}, \frac{3}{71}e^{14}, \frac{1}{142}\sqrt{510}e^{15}$	$(-\frac{3}{71}, \frac{5}{71}, -\frac{6}{71}, \frac{5}{71}, \frac{5}{71}, \frac{2}{71}, -\frac{9}{71}, \frac{2}{71}, \frac{2}{71})$ $+ \frac{1}{142}\sqrt{546}e^2 \otimes e_9 - \frac{1}{142}\sqrt{546}e^5 \otimes e_6 + \frac{2}{71}\sqrt{33}e^1 \otimes e_3$	{12458, 125, 14689, 169, 2346, 2368}
94:6	$0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{12}, \frac{1}{115}\sqrt{4161}e^{13}, \frac{3}{115}\sqrt{133}e^{14}, \frac{1}{115}\sqrt{1767}e^{15}$	$(-\frac{31}{115}, \frac{21}{46}, \frac{53}{230}, \frac{1}{230}, \frac{53}{230}, \frac{43}{230}, -\frac{9}{230}, -\frac{61}{230}, -\frac{9}{230})$ $+ \frac{2}{115}\sqrt{1482}e^2 \otimes e_7 + \frac{2}{115}\sqrt{1482}e^3 \otimes e_8$	{1234, 123459, 156789, 1678, 24568, 24689, 357, 379}
94:6	$0, 0, 0, 0, 0, \frac{1}{142}\sqrt{510}e^{12}, \frac{5}{71}\sqrt{3}e^{13}, \frac{3}{71}e^{14}, \frac{1}{142}\sqrt{510}e^{15}$	$(-\frac{3}{71}, \frac{5}{71}, -\frac{6}{71}, \frac{5}{71}, \frac{5}{71}, \frac{2}{71}, -\frac{9}{71}, \frac{2}{71}, \frac{2}{71})$ $+ \frac{1}{142}\sqrt{546}e^2 \otimes e_9 + \frac{1}{142}\sqrt{546}e^5 \otimes e_6 + \frac{2}{71}\sqrt{33}e^1 \otimes e_3$	{12458, 125, 14689, 169, 2346, 2368}
94:6	$0, 0, 0, 0, 0, \frac{3}{7}e^{12}, \frac{3}{7}e^{13}, \frac{2}{7}e^{14}, \frac{2}{7}e^{15}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{7}\sqrt{13}e^2 \otimes e_7 - \frac{1}{7}\sqrt{13}e^3 \otimes e_6$	{123, 1234589, 12348, 1456789, 14678, 167, 2456, 2469, 2689}
94:6	$0, 0, 0, 0, 0, \frac{3}{56}\sqrt{22}e^{12}, \frac{11}{112}\sqrt{6}e^{13}, \frac{1}{112}\sqrt{1551}e^{14}, \frac{1}{112}\sqrt{1551}e^{15}$	$(\frac{1}{16}, \frac{1}{8}, -\frac{13}{56}, -\frac{29}{224}, \frac{51}{224}, \frac{3}{16}, -\frac{19}{112}, -\frac{15}{224}, \frac{65}{224})$ $+ \frac{1}{112}\sqrt{1122}e^2 \otimes e_7 + \frac{1}{28}\sqrt{165}e^5 \otimes e_8 + \frac{1}{56}\sqrt{759}e^1 \otimes e_3$	{1245, 1289, 23468, 23569}
94:6	$0, 0, 0, 0, 0, \frac{2}{3041}\sqrt{306705}e^{12}, \frac{6}{3041}\sqrt{6555}e^{13}, \frac{4}{3041}\sqrt{690}e^{14}, \frac{6}{3041}\sqrt{20585}e^{15}$	$(\frac{16}{3041}, \frac{32}{3041}, -\frac{674}{3041}, \frac{209}{3041}, \frac{738}{3041}, \frac{48}{3041}, -\frac{658}{3041}, \frac{225}{3041}, \frac{754}{3041})$ $+ \frac{16}{3041}\sqrt{3795}e^2 \otimes e_7 + \frac{46}{3041}\sqrt{690}e^5 \otimes e_6 + \frac{6}{3041}\sqrt{40710}e^1 \otimes e_3$	{1245, 1258, 23468, 236}
94:6	$0, 0, 0, 0, 0, \frac{1}{283}\sqrt{10815}e^{12}, \frac{1}{283}\sqrt{10815}e^{13}, \frac{1}{283}\sqrt{105}e^{14}, \frac{1}{283}\sqrt{105}e^{15}$	$(-\frac{79}{283}, \frac{151}{566}, \frac{99}{566}, \frac{47}{566}, \frac{203}{566}, -\frac{7}{566}, -\frac{59}{566}, -\frac{111}{566}, \frac{45}{566})$ $+ \frac{4}{283}\sqrt{1365}e^2 \otimes e_7 + \frac{6}{283}\sqrt{455}e^3 \otimes e_8 + \frac{6}{283}\sqrt{455}e^5 \otimes e_6$	{12359, 14678, 2689, 3457}
94:6	$0, 0, 0, 0, 0, \frac{2}{411}\sqrt{7705}e^{12}, \frac{2}{411}\sqrt{4891}e^{13}, \frac{2}{411}\sqrt{7705}e^{14}, \frac{4}{411}\sqrt{402}e^{15}$	$(\frac{16}{137}, \frac{34}{137}, -\frac{86}{411}, -\frac{80}{411}, \frac{11}{411}, \frac{50}{137}, -\frac{38}{411}, -\frac{32}{411}, \frac{59}{411})$ $+ \frac{2}{411}\sqrt{12194}e^2 \otimes e_8 + \frac{2}{411}\sqrt{12998}e^1 \otimes e_3$	{1245, 1249, 1568, 1689, 23569, 236, 34589, 348}
94:6	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{42}e^{12}, \frac{1}{21}\sqrt{42}e^{13}, \frac{2}{7}e^{14}, \frac{1}{21}\sqrt{42}e^{15}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{21}\sqrt{78}e^2 \otimes e_7 + \frac{1}{21}\sqrt{78}e^3 \otimes e_9 + \frac{1}{21}\sqrt{78}e^5 \otimes e_6$	{123458, 1235, 146789, 1679}
94:6	$0, 0, 0, 0, 0, \frac{10}{1263}\sqrt{1258}e^{12}, \frac{2}{1263}\sqrt{18955}e^{13}, \frac{4}{1263}\sqrt{3995}e^{14}, \frac{4}{1263}\sqrt{3995}e^{15}$	$(\frac{4}{421}, \frac{71}{1263}, -\frac{158}{1263}, -\frac{37}{421}, \frac{253}{1263}, \frac{83}{1263}, -\frac{146}{1263}, -\frac{33}{421}, \frac{265}{1263})$ $+ \frac{2}{1263}\sqrt{38930}e^1 \otimes e_3 + \frac{4}{1263}\sqrt{7735}e^2 \otimes e_8 + \frac{4}{1263}\sqrt{7735}e^5 \otimes e_6$	{1245, 1689, 236, 34589}
94:6	$0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{12}, \frac{1}{31}\sqrt{627}e^{13}, \frac{1}{31}\sqrt{231}e^{14}, \frac{1}{31}\sqrt{231}e^{15}$	$(-\frac{7}{31}, \frac{43}{62}, -\frac{9}{62}, \frac{17}{62}, \frac{17}{62}, \frac{29}{62}, -\frac{23}{62}, \frac{3}{62}, \frac{3}{62})$ $+ \frac{2}{31}\sqrt{429}e^2 \otimes e_7$	{123, 1234589, 12348, 1456789, 14678, 167, 2456, 2469, 2689, 3457, 3479, 3789}
94:6	$0, 0, 0, 0, 0, \frac{3}{7}e^{12}, \frac{3}{7}e^{13}, \frac{2}{7}e^{14}, \frac{2}{7}e^{15}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{7}\sqrt{13}e^2 \otimes e_7 + \frac{1}{7}\sqrt{13}e^3 \otimes e_6$	{123, 1234589, 12348, 1456789, 14678, 167, 2456, 2469, 2689}
94:6	$0, 0, 0, 0, 0, \frac{2}{127}\sqrt{1403}e^{12}, \frac{2}{127}\sqrt{1830}e^{13}, \frac{2}{127}\sqrt{1830}e^{14}, \frac{2}{127}\sqrt{1830}e^{15}$	$(\frac{60}{127}, -\frac{62}{127}, -\frac{9}{127}, -\frac{9}{127}, -\frac{9}{127}, -\frac{9}{127}, -\frac{2}{127}, \frac{51}{127}, \frac{51}{127})$ $+ \frac{2}{127}\sqrt{6466}e^1 \otimes e_2$	{1345, 1349, 1389, 1789, 2, 2345789, 23478, 237}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:6	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{451}e^{12}, \frac{1}{59}\sqrt{451}e^{13}, \frac{1}{59}\sqrt{451}e^{14}, \frac{1}{59}\sqrt{451}e^{15}$	$(-\frac{15}{59}, \frac{55}{118}, \frac{55}{118}, \frac{3}{118}, \frac{3}{118}, \frac{25}{118}, \frac{25}{118}, -\frac{27}{118}, -\frac{27}{118})$ $+\frac{2}{59}\sqrt{533}e^2 \otimes e_8 + \frac{2}{59}\sqrt{533}e^3 \otimes e_9$	{12345, 12479, 16789, 2367, 2569, 4589}
94:7	$0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{3295}e^{12}, \frac{2}{1457}\sqrt{104122}e^{13}, \frac{10}{1457}\sqrt{659}e^{14},$ $\frac{1}{1457}\sqrt{644502}e^{25}$	$(-\frac{100}{1457}, -\frac{323}{1457}, \frac{572}{1457}, \frac{206}{1457}, \frac{236}{1457}, -\frac{9}{31}, \frac{472}{1457}, \frac{106}{1457}, -\frac{87}{1457})$ $+\frac{1}{1457}\sqrt{749942}e^5 \otimes e_6 + \frac{2}{1457}\sqrt{241194}e^3 \otimes e_9$	{1246789, 12679, 145789, 1579, 23457, 23578, 3467, 3678}
94:7	$0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{2870}e^{12}, \frac{2}{1411}\sqrt{155595}e^{13}, \frac{16}{1411}\sqrt{615}e^{14},$ $\frac{3}{1411}\sqrt{37310}e^{25}$	$(\frac{315}{1411}, -\frac{151}{1411}, \frac{334}{1411}, -\frac{300}{1411}, -\frac{130}{1411}, \frac{164}{1411}, \frac{649}{1411}, \frac{15}{1411}, -\frac{281}{1411})$ $+\frac{1}{1411}\sqrt{702330}e^1 \otimes e_4 + \frac{41}{1411}\sqrt{510}e^3 \otimes e_9$	{1235, 1279, 136, 15679, 234567, 2469, 347, 459}
94:7	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1295}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{1085}e^{14}, \frac{1}{139}\sqrt{3115}e^{25}$	$(\frac{15}{278}, -\frac{14}{139}, \frac{36}{139}, -\frac{55}{278}, \frac{15}{139}, -\frac{13}{278}, \frac{87}{278}, -\frac{20}{139}, \frac{1}{139})$ $+\frac{1}{139}\sqrt{3885}e^3 \otimes e_9 + \frac{4}{139}\sqrt{105}e^1 \otimes e_4 + \frac{5}{139}\sqrt{133}e^5 \otimes e_8$	{126789, 138, 2489, 34678}
94:7	$0, 0, 0, 0, 0, \frac{1}{442}\sqrt{2829}e^{12}, \frac{1}{884}\sqrt{29438}e^{13}, \frac{1}{884}\sqrt{4510}e^{14},$ $\frac{3}{884}\sqrt{2706}e^{25}$	$(\frac{21}{884}, -\frac{103}{884}, \frac{7}{136}, -\frac{5}{221}, \frac{215}{1768}, -\frac{41}{442}, \frac{133}{1768}, \frac{1}{884}, \frac{9}{1768})$ $+\frac{1}{884}\sqrt{10742}e^1 \otimes e_4 + \frac{41}{884}\sqrt{17}e^3 \otimes e_9 + \frac{41}{884}\sqrt{17}e^5 \otimes e_7$	{12356, 12679, 3467, 4569}
94:7	$0, 0, 0, 0, 0, \frac{2}{609}\sqrt{5135}e^{12}, \frac{2}{609}\sqrt{395}e^{13}, \frac{2}{609}\sqrt{13193}e^{14},$ $\frac{2}{609}\sqrt{12877}e^{25}$	$(-\frac{95}{609}, -\frac{46}{609}, \frac{64}{203}, \frac{43}{203}, \frac{17}{203}, -\frac{47}{203}, \frac{97}{609}, \frac{34}{609}, -\frac{1}{21})$ $+\frac{16}{609}\sqrt{158}e^5 \otimes e_6 + \frac{2}{609}\sqrt{14615}e^3 \otimes e_8 + \frac{4}{609}\sqrt{4819}e^4 \otimes e_9$	{126789, 15789, 2458, 468}
94:7	$0, 0, 0, 0, 0, \frac{1}{1299}\sqrt{41730}e^{12}, \frac{4}{1299}\sqrt{12305}e^{13}, \frac{1}{1299}\sqrt{210790}e^{14},$ $\frac{2}{1299}\sqrt{119305}e^{25}$	$(-\frac{65}{433}, \frac{101}{433}, -\frac{37}{1299}, -\frac{50}{1299}, \frac{290}{1299}, \frac{36}{433}, -\frac{232}{1299}, -\frac{245}{1299}, \frac{593}{1299})$ $+\frac{1}{1299}\sqrt{602410}e^2 \otimes e_7 + \frac{1}{1299}\sqrt{630230}e^5 \otimes e_8$	{123456, 123689, 14579, 178, 2489, 25, 34678, 35679}
94:7	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{7}e^{12}, \frac{2}{41}\sqrt{105}e^{13}, \frac{2}{41}\sqrt{35}e^{14}, \frac{2}{41}\sqrt{77}e^{25}$	$(-\frac{7}{41}, \frac{2}{41}, \frac{6}{41}, -\frac{1}{41}, \frac{13}{41}, -\frac{5}{41}, -\frac{1}{41}, -\frac{8}{41}, \frac{15}{41})$ $+\frac{2}{41}\sqrt{119}e^3 \otimes e_8 + \frac{4}{41}\sqrt{35}e^5 \otimes e_7$	{123456, 126789, 13459, 178, 2379, 2458, 367, 45689}
94:7	$0, 0, 0, 0, 0, \frac{2}{473}\sqrt{4047}e^{12}, \frac{10}{473}\sqrt{213}e^{13}, \frac{10}{473}\sqrt{355}e^{14}, \frac{2}{473}\sqrt{6603}e^{25}$	$(-\frac{101}{473}, \frac{6}{473}, \frac{47}{473}, \frac{8}{43}, \frac{3}{11}, -\frac{95}{473}, -\frac{54}{473}, -\frac{13}{473}, \frac{135}{473})$ $+\frac{12}{473}\sqrt{355}e^5 \otimes e_8 + \frac{6}{473}\sqrt{1349}e^4 \otimes e_7 + \frac{8}{473}\sqrt{355}e^3 \otimes e_6$	{126789, 13459, 2357, 468}
94:7	$0, 0, 0, 0, 0, \frac{1}{1299}\sqrt{41730}e^{12}, \frac{1}{1299}\sqrt{210790}e^{13}, \frac{4}{1299}\sqrt{12305}e^{14},$ $\frac{2}{1299}\sqrt{119305}e^{25}$	$(-\frac{65}{433}, \frac{101}{433}, \frac{539}{1299}, -\frac{37}{1299}, -\frac{299}{1299}, \frac{36}{433}, \frac{344}{1299}, -\frac{232}{1299}, \frac{4}{1299})$ $+\frac{1}{1299}\sqrt{602410}e^2 \otimes e_8 + \frac{1}{1299}\sqrt{630230}e^3 \otimes e_9$	{123456, 124679, 138, 15789, 2357, 29, 34678, 45689}
94:7	$0, 0, 0, 0, 0, \frac{1}{374}\sqrt{2747}e^{12}, \frac{1}{374}\sqrt{5207}e^{13}, \frac{1}{748}\sqrt{1066}e^{14}, \frac{7}{374}\sqrt{123}e^{25}$	$(-\frac{81}{748}, -\frac{1}{748}, \frac{185}{1496}, \frac{39}{748}, \frac{105}{1496}, -\frac{41}{374}, \frac{23}{1496}, -\frac{21}{374}, \frac{103}{1496})$ $+\frac{1}{748}\sqrt{24149}e^3 \otimes e_9 + \frac{1}{748}\sqrt{24149}e^5 \otimes e_7 + \frac{1}{748}\sqrt{8774}e^2 \otimes e_8$	{123456, 124679, 34678, 45689}
94:7	$0, 0, 0, 0, 0, \frac{6}{3533}\sqrt{1403}e^{12}, \frac{2}{3533}\sqrt{203313}e^{13}, \frac{2}{3533}\sqrt{23973}e^{14},$ $\frac{6}{3533}\sqrt{18239}e^{25}$	$(\frac{262}{3533}, -\frac{680}{3533}, -\frac{52}{3533}, \frac{155}{3533}, \frac{576}{3533}, -\frac{418}{3533}, \frac{210}{3533}, \frac{417}{3533}, -\frac{104}{3533})$ $+\frac{2}{3533}\sqrt{141459}e^3 \otimes e_6 + \frac{2}{3533}\sqrt{217221}e^5 \otimes e_7 + \frac{6}{3533}\sqrt{26169}e^1 \otimes e_9$	{12345, 12358, 1467, 1678}
94:7	$0, 0, 0, 0, 0, \frac{1}{128}\sqrt{16626}e^{12}, \frac{1}{128}\sqrt{2445}e^{13}, \frac{1}{128}\sqrt{2445}e^{14}, \frac{1}{64}\sqrt{815}e^{25}$	$(-\frac{15}{128}, \frac{87}{128}, \frac{57}{256}, \frac{57}{256}, -\frac{19}{32}, \frac{9}{16}, \frac{27}{256}, \frac{27}{256}, \frac{11}{128})$ $+\frac{1}{128}\sqrt{34882}e^2 \otimes e_5$	{12, 123478, 1237, 1345678, 13567, 156, 2346, 2368, 2678, 345, 358, 578}
94:7	$0, 0, 0, 0, 0, \frac{2}{323}\sqrt{1133}e^{12}, \frac{4}{323}\sqrt{1133}e^{13}, \frac{4}{323}\sqrt{1133}e^{14}, \frac{2}{323}\sqrt{5665}e^{25}$	$(-\frac{59}{323}, -\frac{26}{323}, \frac{143}{323}, -\frac{4}{323}, \frac{121}{323}, -\frac{5}{323}, \frac{84}{323}, -\frac{63}{323}, \frac{5}{17})$ $+\frac{14}{323}\sqrt{309}e^3 \otimes e_8 + \frac{4}{323}\sqrt{3502}e^5 \otimes e_6$	{12345, 12578, 1346, 1678, 23679, 24689, 3579, 4589}
94:7	$0, 0, 0, 0, 0, \frac{14}{3013}\sqrt{5093}e^{12}, \frac{14}{3013}\sqrt{6017}e^{13}, \frac{70}{3013}\sqrt{11}e^{14},$ $\frac{14}{3013}\sqrt{2497}e^{25}$	$(\frac{269}{3013}, -\frac{430}{3013}, \frac{538}{3013}, -\frac{809}{3013}, \frac{7}{23}, -\frac{7}{131}, \frac{807}{3013}, -\frac{540}{3013}, \frac{487}{3013})$ $+\frac{28}{3013}\sqrt{2431}e^5 \otimes e_6 + \frac{770}{3013}\sqrt{3}e^3 \otimes e_8 + \frac{84}{3013}\sqrt{319}e^1 \otimes e_4$	{12578, 1678, 24689, 4589}
94:7	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{41}e^{12}, \frac{2}{185}\sqrt{2337}e^{13}, \frac{2}{185}\sqrt{533}e^{14}, \frac{12}{185}\sqrt{41}e^{25}$	$(-\frac{10}{37}, \frac{72}{185}, \frac{8}{37}, \frac{8}{185}, -\frac{3}{37}, \frac{22}{185}, -\frac{2}{37}, -\frac{42}{185}, \frac{57}{185})$ $+\frac{4}{185}\sqrt{779}e^3 \otimes e_8 + \frac{4}{185}\sqrt{902}e^2 \otimes e_7$	{12345, 12349, 156789, 1678, 24568, 24689, 3579, 37}
94:7	$0, 0, 0, 0, 0, \frac{12}{3515}\sqrt{9977}e^{12}, \frac{12}{3515}\sqrt{2222}e^{13}, \frac{12}{3515}\sqrt{77}e^{14},$ $\frac{36}{3515}\sqrt{715}e^{25}$	$(\frac{14}{3515}, \frac{28}{3515}, -\frac{778}{3515}, \frac{54}{703}, \frac{834}{3515}, \frac{42}{3515}, -\frac{764}{3515}, \frac{284}{3515}, \frac{862}{3515})$ $+\frac{12}{3515}\sqrt{12562}e^5 \otimes e_6 + \frac{12}{3515}\sqrt{9383}e^1 \otimes e_3 + \frac{132}{3515}\sqrt{113}e^2 \otimes e_7$	{1467, 1678, 345789, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:7	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{7}e^{12}, \frac{2}{41}\sqrt{35}e^{13}, \frac{2}{41}\sqrt{105}e^{14}, \frac{2}{41}\sqrt{77}e^{25}$	$(-\frac{7}{41}, \frac{2}{41}, \frac{16}{41}, \frac{9}{41}, -\frac{7}{41}, -\frac{5}{41}, \frac{9}{41}, \frac{2}{41}, -\frac{5}{41})$ $+\frac{2}{41}\sqrt{119}e^3 \otimes e_8 + \frac{4}{41}\sqrt{35}e^4 \otimes e_9$	{123456, 126789, 134, 15789, 2379, 2458, 35679, 468}
94:7	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1295}e^{12}, \frac{1}{139}\sqrt{210}e^{13}, \frac{21}{139}\sqrt{5}e^{14}, \frac{2}{139}\sqrt{455}e^{25}$	$(\frac{15}{278}, \frac{23}{139}, -\frac{55}{278}, -\frac{39}{278}, \frac{15}{139}, \frac{61}{278}, -\frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $+\frac{1}{139}\sqrt{2030}e^5 \otimes e_7 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_8 + \frac{5}{139}\sqrt{119}e^1 \otimes e_3$	{1245, 15689, 2356, 34589}
94:7	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{1870}e^{12}, \frac{1}{111}\sqrt{2278}e^{13}, \frac{34}{111}e^{14}, \frac{4}{111}\sqrt{51}e^{25}$	$(-\frac{34}{111}, \frac{8}{37}, \frac{8}{37}, \frac{9}{37}, -\frac{2}{111}, -\frac{10}{111}, -\frac{10}{111}, -\frac{7}{111}, \frac{22}{111})$ $+\frac{1}{111}\sqrt{3230}e^3 \otimes e_6 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_7$	{123458, 123489, 1235, 1239, 1456789, 14678, 15679, 167, 2456, 2469, 2568, 2689, 34579, 347, 35789, 378}
94:7	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1295}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{210}e^{14}, \frac{2}{139}\sqrt{455}e^{25}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, \frac{15}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{12}{139}, -\frac{20}{139}, \frac{38}{139})$ $+\frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_7 + \frac{5}{139}\sqrt{119}e^3 \otimes e_6$	{123489, 1235, 14678, 15679, 2456, 2689, 34579, 378}
94:7	$0, 0, 0, 0, 0, \frac{1}{1849}\sqrt{155570}e^{12}, \frac{12}{1849}\sqrt{2317}e^{13}, \frac{2}{1849}\sqrt{16881}e^{14}, \frac{2}{1849}\sqrt{89039}e^{25}$	$(\frac{204}{1849}, \frac{221}{1849}, -\frac{314}{1849}, \frac{88}{1849}, -\frac{348}{1849}, \frac{425}{1849}, -\frac{110}{1849}, \frac{292}{1849}, -\frac{127}{1849})$ $+\frac{2}{1849}\sqrt{133062}e^2 \otimes e_7 + \frac{3}{1849}\sqrt{62890}e^1 \otimes e_9$	{12345, 12358, 1467, 1678, 24689, 269, 345789, 3579}
94:7	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{26553}e^{12}, \frac{2}{659}\sqrt{10855}e^{13}, \frac{2}{659}\sqrt{6513}e^{14}, \frac{2}{659}\sqrt{13026}e^{25}$	$(\frac{78}{659}, \frac{156}{659}, -\frac{256}{659}, \frac{36}{659}, -\frac{3}{659}, \frac{234}{659}, -\frac{178}{659}, \frac{114}{659}, \frac{153}{659})$ $+\frac{2}{659}\sqrt{44422}e^1 \otimes e_3 + \frac{2}{659}\sqrt{53106}e^2 \otimes e_7$	{145679, 1467, 156789, 1678, 345789, 3478, 3579, 37}
94:7	$0, 0, 0, 0, 0, \frac{2}{3597}\sqrt{3819}e^{12}, \frac{2}{3597}\sqrt{43349}e^{13}, \frac{4}{3597}\sqrt{10519}e^{14}, \frac{4}{3597}\sqrt{19765}e^{25}$	$(\frac{95}{1199}, \frac{2}{109}, -\frac{353}{3597}, -\frac{334}{3597}, \frac{85}{3597}, \frac{117}{1199}, -\frac{68}{3597}, -\frac{49}{3597}, \frac{151}{3597})$ $+\frac{14}{1199}\sqrt{201}e^1 \otimes e_9 + \frac{2}{3597}\sqrt{65057}e^5 \otimes e_8 + \frac{2}{3597}\sqrt{67603}e^2 \otimes e_7$	{12345, 1678, 24689, 3579}
94:7	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{1055370}e^{12}, \frac{1}{1699}\sqrt{377274}e^{13}, \frac{6}{1699}\sqrt{8587}e^{14}, \frac{3}{1699}\sqrt{30470}e^{25}$	$(\frac{372}{1699}, \frac{403}{1699}, -\frac{459}{1699}, -\frac{46}{1699}, -\frac{428}{1699}, \frac{775}{1699}, -\frac{87}{1699}, \frac{326}{1699}, -\frac{25}{1699})$ $+\frac{1}{1699}\sqrt{1218246}e^2 \otimes e_5 + \frac{2}{1699}\sqrt{343203}e^1 \otimes e_3$	{124, 128, 1456, 1568, 23468, 236, 3458, 35}
94:7	$0, 0, 0, 0, 0, \frac{6}{3257}\sqrt{15290}e^{12}, \frac{2}{3257}\sqrt{319422}e^{13}, \frac{4}{3257}\sqrt{29190}e^{14}, \frac{6}{3257}\sqrt{30302}e^{25}$	$(\frac{405}{3257}, \frac{728}{3257}, \frac{617}{3257}, -\frac{429}{3257}, \frac{511}{3257}, \frac{323}{3257}, \frac{1022}{3257}, \frac{24}{3257}, \frac{217}{3257})$ $+\frac{14}{3257}\sqrt{9591}e^3 \otimes e_9 + \frac{2}{3257}\sqrt{402405}e^1 \otimes e_4 + \frac{6}{3257}\sqrt{42117}e^5 \otimes e_6$	{1235, 136, 2469, 459}
94:7	$0, 0, 0, 0, 0, \frac{1}{1717}\sqrt{90914}e^{12}, \frac{1}{1717}\sqrt{386558}e^{13}, \frac{1}{1717}\sqrt{122838}e^{14}, \frac{4}{1717}\sqrt{26719}e^{25}$	$(\frac{354}{1717}, -\frac{311}{1717}, -\frac{383}{1717}, -\frac{3}{1717}, \frac{318}{1717}, \frac{43}{1717}, -\frac{29}{1717}, \frac{351}{1717}, \frac{7}{1717})$ $+\frac{3}{1717}\sqrt{60378}e^1 \otimes e_9 + \frac{4}{1717}\sqrt{32965}e^5 \otimes e_7$	{123456, 123568, 147, 178, 234789, 2379, 45689, 569}
94:7	$0, 0, 0, 0, 0, \frac{7}{143}\sqrt{5}e^{12}, \frac{3}{143}\sqrt{30}e^{13}, \frac{1}{143}\sqrt{30}e^{14}, \frac{1}{143}\sqrt{395}e^{25}$	$(\frac{6}{143}, -\frac{5}{143}, -\frac{16}{143}, \frac{8}{143}, \frac{6}{143}, \frac{1}{143}, -\frac{10}{143}, \frac{14}{143}, \frac{1}{143})$ $+\frac{1}{143}\sqrt{345}e^5 \otimes e_6 + \frac{3}{143}\sqrt{55}e^1 \otimes e_9 + \frac{4}{143}\sqrt{30}e^2 \otimes e_7$	{12345, 12358, 1467, 1678, 24689, 269, 345789, 3579}
94:7	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{65}e^{12}, \frac{6}{29}\sqrt{13}e^{13}, \frac{2}{29}\sqrt{39}e^{14}, \frac{4}{29}\sqrt{26}e^{25}$	$(-\frac{6}{29}, \frac{16}{29}, -\frac{4}{29}, \frac{8}{29}, -\frac{3}{29}, \frac{10}{29}, -\frac{10}{29}, \frac{2}{29}, \frac{13}{29})$ $+\frac{4}{29}\sqrt{78}e^2 \otimes e_7$	{123458, 123489, 1235, 1239, 1456789, 14678, 15679, 167, 2456, 2469, 2568, 2689, 34579, 347, 35789, 378}
94:7	$0, 0, 0, 0, 0, \frac{2}{3241}\sqrt{47270}e^{12}, \frac{2}{3241}\sqrt{123395}e^{13}, \frac{2}{3241}\sqrt{26535}e^{14}, \frac{58}{3241}\sqrt{205}e^{25}$	$(-\frac{465}{3241}, \frac{382}{3241}, \frac{557}{3241}, \frac{60}{3241}, -\frac{115}{3241}, -\frac{83}{3241}, \frac{92}{3241}, -\frac{405}{3241}, \frac{267}{3241})$ $+\frac{10}{3241}\sqrt{6757}e^3 \otimes e_9 + \frac{2}{3241}\sqrt{120495}e^5 \otimes e_8 + \frac{2}{3241}\sqrt{145290}e^2 \otimes e_7$	{123456, 14579, 2489, 34678}
94:7	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{45633}e^{12}, \frac{2}{527}\sqrt{20951}e^{13}, \frac{14}{527}\sqrt{861}e^{14}, \frac{4}{527}\sqrt{1722}e^{25}$	$(\frac{294}{527}, -\frac{48}{527}, -\frac{280}{527}, -\frac{60}{527}, \frac{111}{527}, \frac{246}{527}, \frac{14}{527}, \frac{234}{527}, \frac{63}{527})$ $+\frac{4}{527}\sqrt{31570}e^1 \otimes e_3$	{124, 12459, 12589, 128, 1456, 1469, 1568, 1689, 2345689, 23468, 23569, 236, 3458, 3489, 35, 39}
94:7	$0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{1055370}e^{12}, \frac{6}{1699}\sqrt{8587}e^{13}, \frac{1}{1699}\sqrt{377274}e^{14}, \frac{3}{1699}\sqrt{30470}e^{25}$	$(-\frac{454}{1699}, \frac{403}{1699}, \frac{780}{1699}, \frac{367}{1699}, -\frac{428}{1699}, -\frac{51}{1699}, \frac{326}{1699}, -\frac{87}{1699}, -\frac{25}{1699})$ $+\frac{1}{1699}\sqrt{1218246}e^2 \otimes e_5 + \frac{2}{1699}\sqrt{343203}e^3 \otimes e_6$	{123, 12348, 145678, 1567, 246, 268, 3457, 3578}
94:7	$0, 0, 0, 0, 0, \frac{1}{412}\sqrt{5406}e^{12}, \frac{1}{103}\sqrt{102}e^{13}, \frac{17}{206}\sqrt{7}e^{14}, \frac{1}{206}\sqrt{1887}e^{25}$	$(-\frac{1}{412}, -\frac{33}{412}, -\frac{17}{412}, \frac{61}{824}, \frac{93}{824}, -\frac{17}{206}, -\frac{9}{206}, \frac{59}{824}, \frac{27}{824})$ $+\frac{1}{412}\sqrt{3230}e^3 \otimes e_6 + \frac{3}{412}\sqrt{901}e^4 \otimes e_9 + \frac{3}{412}\sqrt{901}e^5 \otimes e_8$	{1234567, 1236789, 3468, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:7	$0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{2870}e^{12}, \frac{16}{1411}\sqrt{615}e^{13}, \frac{2}{1411}\sqrt{155595}e^{14}, \frac{3}{1411}\sqrt{37310}e^{25}$	$(\frac{315}{1411}, -\frac{151}{1411}, -\frac{300}{1411}, -\frac{363}{1411}, \frac{567}{1411}, \frac{164}{1411}, \frac{15}{1411}, -\frac{48}{1411}, \frac{416}{1411}) + \frac{1}{1411}\sqrt{702330}e^1 \otimes e_3 + \frac{41}{1411}\sqrt{510}e^5 \otimes e_8$	{1245, 1289, 14569, 168, 234689, 2356, 348, 359}
94:7	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{465}e^{12}, \frac{18}{95}\sqrt{5}e^{13}, \frac{2}{95}\sqrt{255}e^{14}, \frac{4}{95}\sqrt{30}e^{25}$	$(\frac{2}{19}, -\frac{16}{95}, \frac{24}{95}, -\frac{4}{19}, \frac{3}{19}, -\frac{6}{95}, \frac{34}{95}, -\frac{2}{19}, -\frac{1}{95}) + \frac{4}{95}\sqrt{165}e^1 \otimes e_4 + \frac{4}{95}\sqrt{165}e^3 \otimes e_6$	{123, 12359, 1567, 1679, 24569, 246, 3457, 3479}
94:7	$0, 0, 0, 0, 0, \frac{12}{77}\sqrt{2}e^{12}, \frac{2}{77}\sqrt{70}e^{13}, \frac{2}{77}\sqrt{70}e^{14}, \frac{2}{11}\sqrt{2}e^{25}$	$(-\frac{23}{154}, -\frac{1}{77}, \frac{19}{154}, \frac{13}{77}, \frac{6}{77}, -\frac{25}{154}, -\frac{2}{77}, \frac{3}{154}, \frac{5}{77}) + \frac{20}{77}e^4 \otimes e_9 + \frac{20}{77}e^5 \otimes e_7 + \frac{2}{77}\sqrt{86}e^3 \otimes e_8$	{123456, 126789, 2379, 2458}
94:7	$0, 0, 0, 0, 0, \frac{7}{143}\sqrt{5}e^{12}, \frac{3}{143}\sqrt{30}e^{13}, \frac{1}{143}\sqrt{30}e^{14}, \frac{1}{143}\sqrt{395}e^{25}$	$(\frac{6}{143}, -\frac{5}{143}, -\frac{16}{143}, \frac{8}{143}, \frac{6}{143}, \frac{1}{143}, -\frac{10}{143}, \frac{14}{143}, \frac{1}{143}) - \frac{1}{143}\sqrt{345}e^5 \otimes e_6 + \frac{3}{143}\sqrt{55}e^1 \otimes e_9 + \frac{4}{143}\sqrt{30}e^2 \otimes e_7$	{12345, 12358, 1467, 1678, 24689, 269, 345789, 3579}
94:7	$0, 0, 0, 0, 0, \frac{2}{1599}\sqrt{21873}e^{12}, \frac{10}{1599}\sqrt{634}e^{13}, \frac{2}{1599}\sqrt{23141}e^{14}, \frac{1}{1599}\sqrt{308758}e^{25}$	$(-\frac{84}{533}, \frac{17}{533}, \frac{484}{1599}, -\frac{14}{1599}, \frac{116}{1599}, -\frac{67}{533}, \frac{232}{1599}, -\frac{266}{1599}, \frac{167}{1599}) + \frac{1}{1599}\sqrt{298614}e^5 \otimes e_6 + \frac{2}{1599}\sqrt{71642}e^3 \otimes e_9 + \frac{1}{1599}\sqrt{5389}e^2 \otimes e_8$	{12345, 1368, 269, 4589}
94:7	$0, 0, 0, 0, 0, \frac{18}{3209}\sqrt{1965}e^{12}, \frac{72}{3209}\sqrt{195}e^{13}, \frac{36}{3209}\sqrt{10}e^{14}, \frac{18}{3209}\sqrt{3505}e^{25}$	$(-\frac{729}{3209}, \frac{450}{3209}, \frac{369}{3209}, \frac{288}{3209}, \frac{531}{3209}, -\frac{279}{3209}, -\frac{360}{3209}, -\frac{441}{3209}, \frac{981}{3209}) + \frac{18}{3209}\sqrt{3565}e^3 \otimes e_8 + \frac{36}{3209}\sqrt{1190}e^5 \otimes e_6 + \frac{72}{3209}\sqrt{395}e^2 \otimes e_7$	{1235, 14678, 2689, 34579}
94:7	$0, 0, 0, 0, 0, \frac{4}{1613}\sqrt{48983}e^{12}, \frac{5}{1613}\sqrt{11242}e^{13}, \frac{1}{1613}\sqrt{316382}e^{14}, \frac{1}{1613}\sqrt{203962}e^{25}$	$(\frac{394}{1613}, -\frac{455}{1613}, -\frac{409}{1613}, -\frac{37}{1613}, \frac{742}{1613}, -\frac{61}{1613}, -\frac{15}{1613}, \frac{357}{1613}, \frac{287}{1613}) + \frac{1}{1613}\sqrt{1138654}e^5 \otimes e_6 + \frac{4}{1613}\sqrt{74679}e^1 \otimes e_3$	{1245, 1258, 146, 168, 234689, 2369, 34589, 359}
94:7	$0, 0, 0, 0, 0, \frac{14}{487}\sqrt{51}e^{12}, \frac{8}{487}\sqrt{273}e^{13}, \frac{6}{487}\sqrt{42}e^{14}, \frac{2}{487}\sqrt{4242}e^{25}$	$(-\frac{36}{487}, -\frac{48}{487}, \frac{53}{487}, \frac{53}{487}, \frac{59}{487}, -\frac{84}{487}, \frac{17}{487}, \frac{17}{487}, \frac{11}{487}) + \frac{2}{487}\sqrt{4746}e^3 \otimes e_9 + \frac{2}{487}\sqrt{4746}e^5 \otimes e_7$	{1234568, 12356, 1246789, 12679, 3467, 3678, 4569, 5689}
94:7	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{1870}e^{12}, \frac{34}{111}e^{13}, \frac{1}{111}\sqrt{2278}e^{14}, \frac{4}{111}\sqrt{51}e^{25}$	$(\frac{9}{74}, \frac{8}{37}, -\frac{41}{222}, -\frac{47}{222}, -\frac{2}{111}, \frac{25}{74}, -\frac{7}{111}, -\frac{10}{111}, \frac{22}{111}) + \frac{1}{111}\sqrt{3230}e^1 \otimes e_3 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_8$	{1245, 1249, 15689, 168, 2356, 2369, 34589, 348}
94:7	$0, 0, 0, 0, 0, \frac{2}{4377}\sqrt{320902}e^{12}, \frac{10}{4377}\sqrt{6463}e^{13}, \frac{2}{4377}\sqrt{246718}e^{14}, \frac{12}{1459}\sqrt{562}e^{25}$	$(\frac{47}{1459}, \frac{40}{1459}, -\frac{421}{4377}, -\frac{583}{4377}, \frac{823}{4377}, \frac{87}{1459}, -\frac{280}{4377}, -\frac{442}{4377}, \frac{943}{4377}) + \frac{28}{4377}\sqrt{1686}e^5 \otimes e_6 + \frac{2}{4377}\sqrt{362771}e^1 \otimes e_3 + \frac{2}{4377}\sqrt{453815}e^2 \otimes e_8$	{1245, 168, 2369, 34589}
94:7	$0, 0, 0, 0, 0, \frac{2}{527}\sqrt{45633}e^{12}, \frac{14}{527}\sqrt{861}e^{13}, \frac{2}{527}\sqrt{20951}e^{14}, \frac{4}{527}\sqrt{1722}e^{25}$	$(-\frac{146}{527}, -\frac{48}{527}, \frac{380}{527}, \frac{160}{527}, \frac{111}{527}, -\frac{194}{527}, \frac{234}{527}, \frac{14}{527}, \frac{63}{527}) + \frac{4}{527}\sqrt{31570}e^3 \otimes e_6$	{123, 1234589, 12348, 12359, 145678, 146789, 1567, 1679, 24569, 246, 25689, 268, 3457, 3479, 3578, 3789}
94:7	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{2037}e^{12}, \frac{2}{361}\sqrt{10185}e^{13}, \frac{10}{361}\sqrt{97}e^{14}, \frac{2}{361}\sqrt{582}e^{25}$	$(-\frac{112}{361}, \frac{12}{361}, \frac{94}{361}, \frac{176}{361}, \frac{33}{361}, -\frac{100}{361}, -\frac{18}{361}, \frac{64}{361}, \frac{45}{361}) + \frac{18}{361}\sqrt{194}e^4 \otimes e_7 + \frac{8}{361}\sqrt{970}e^3 \otimes e_6$	{12345, 12349, 156789, 1678, 24568, 24689, 3579, 37}
94:7	$0, 0, 0, 0, 0, \frac{9}{38}\sqrt{2}e^{12}, \frac{3}{38}\sqrt{30}e^{13}, \frac{3}{38}\sqrt{30}e^{14}, \frac{3}{38}\sqrt{3}e^{25}$	$(-\frac{17}{76}, \frac{8}{19}, \frac{9}{19}, -\frac{1}{76}, -\frac{11}{38}, \frac{15}{76}, \frac{1}{4}, -\frac{9}{38}, \frac{5}{38}) + \frac{3}{38}\sqrt{111}e^3 \otimes e_8 + \frac{9}{38}\sqrt{10}e^2 \otimes e_5$	{12349, 12789, 134569, 156789, 23679, 24689, 3579, 4589}
94:7	$0, 0, 0, 0, 0, \frac{2}{15}\sqrt{34}e^{12}, \frac{1}{45}\sqrt{102}e^{13}, \frac{1}{45}\sqrt{102}e^{14}, \frac{1}{45}\sqrt{1122}e^{25}$	$(-\frac{2}{45}, -\frac{1}{3}, \frac{1}{5}, \frac{1}{5}, \frac{34}{45}, -\frac{17}{45}, \frac{7}{45}, \frac{7}{45}, \frac{19}{45}) + \frac{1}{45}\sqrt{3774}e^5 \otimes e_6$	{1234578, 12357, 125, 134678, 1367, 16, 23469, 23689, 26789, 3459, 3589, 5789}
94:7	$0, 0, 0, 0, 0, \frac{2}{539}\sqrt{26795}e^{12}, \frac{4}{539}\sqrt{12815}e^{13}, \frac{2}{539}\sqrt{1398}e^{14}, \frac{2}{539}\sqrt{50794}e^{25}$	$(-\frac{12}{539}, -\frac{16}{539}, -\frac{19}{77}, \frac{93}{539}, \frac{321}{539}, -\frac{4}{77}, -\frac{145}{539}, \frac{81}{539}, \frac{305}{539}) + \frac{4}{539}\sqrt{26329}e^5 \otimes e_7$	{1234568, 12356, 1246789, 12679, 134589, 1359, 1478, 17, 23479, 23789, 245, 258, 3467, 3678, 4569, 5689}
94:7	$0, 0, 0, 0, 0, \frac{2}{539}\sqrt{26795}e^{12}, \frac{4}{539}\sqrt{12815}e^{13}, \frac{2}{539}\sqrt{1398}e^{14}, \frac{2}{539}\sqrt{50794}e^{25}$	$(-\frac{12}{539}, -\frac{16}{539}, \frac{29}{49}, \frac{93}{539}, \frac{131}{539}, \frac{4}{77}, \frac{307}{539}, \frac{81}{539}, -\frac{3}{11}) + \frac{4}{539}\sqrt{26329}e^3 \otimes e_9$	{1234568, 12356, 1246789, 12679, 13, 1348, 145789, 1579, 23457, 23578, 249, 289, 3467, 3678, 4569, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:7	$0, 0, 0, 0, 0, \frac{28}{1765}\sqrt{53}e^{12}, \frac{4}{1765}\sqrt{30422}e^{13}, \frac{7}{1765}\sqrt{2226}e^{14}, \frac{1}{1765}\sqrt{450394}e^{25}$	$(-\frac{294}{1765}, \frac{397}{1765}, \frac{64}{353}, \frac{306}{1765}, -\frac{448}{1765}, \frac{103}{1765}, \frac{26}{1765}, \frac{12}{1765}, -\frac{51}{1765}) + \frac{1}{1765}\sqrt{585438}e^2 \otimes e_7 + \frac{1}{1765}\sqrt{606214}e^3 \otimes e_9$	{1234568, 12356, 145789, 1579, 249, 289, 3467, 3678}
94:7	$0, 0, 0, 0, 0, \frac{1}{16}\sqrt{46}e^{12}, \frac{1}{16}\sqrt{42}e^{13}, \frac{1}{16}\sqrt{22}e^{14}, \frac{1}{8}\sqrt{2}e^{25}$	$(\frac{3}{32}, -\frac{13}{80}, \frac{39}{160}, -\frac{7}{32}, \frac{3}{16}, -\frac{11}{160}, \frac{27}{80}, -\frac{1}{8}, \frac{1}{40}) + \frac{1}{16}\sqrt{10}e^5 \otimes e_8 + \frac{1}{16}\sqrt{69}e^1 \otimes e_4 + \frac{1}{16}\sqrt{69}e^3 \otimes e_6$	{12359, 1567, 24569, 3457}
94:7	$0, 0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{1}{9}\sqrt{6}e^{14}, \frac{1}{9}\sqrt{15}e^{25}$	$(\frac{2}{9}, -\frac{1}{3}, 0, 0, \frac{2}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9}, -\frac{1}{9}) + \frac{1}{3}\sqrt{3}e^1 \otimes e_9 + \frac{1}{9}\sqrt{21}e^5 \otimes e_6$	{12345, 12358, 12578, 1346, 1368, 1678, 2346789, 23679, 269, 345789, 3579, 59}
94:7	$0, 0, 0, 0, 0, \frac{10}{123}\sqrt{19}e^{12}, \frac{2}{123}\sqrt{703}e^{13}, \frac{2}{123}\sqrt{703}e^{14}, \frac{4}{123}\sqrt{57}e^{25}$	$(-\frac{38}{123}, \frac{8}{41}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, -\frac{14}{123}, -\frac{8}{123}, -\frac{8}{123}, \frac{23}{123}) + \frac{4}{123}\sqrt{266}e^3 \otimes e_8 + \frac{4}{123}\sqrt{266}e^4 \otimes e_7$	{123456, 123469, 125678, 126789, 134, 13459, 15789, 178, 2357, 2379, 35679, 367}
94:7	$0, 0, 0, 0, 0, \frac{10}{123}\sqrt{19}e^{12}, \frac{2}{123}\sqrt{703}e^{13}, \frac{2}{123}\sqrt{703}e^{14}, \frac{4}{123}\sqrt{57}e^{25}$	$(-\frac{38}{123}, \frac{8}{41}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, -\frac{14}{123}, -\frac{8}{123}, -\frac{8}{123}, \frac{23}{123}) + \frac{4}{123}\sqrt{266}e^3 \otimes e_8 - \frac{4}{123}\sqrt{266}e^4 \otimes e_7$	{123456, 123469, 125678, 126789, 134, 13459, 15789, 178, 2357, 2379, 35679, 367}
94:7	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1038}e^{12}, \frac{1}{355}\sqrt{13494}e^{13}, \frac{1}{355}\sqrt{13494}e^{14}, \frac{2}{355}\sqrt{4498}e^{25}$	$(\frac{78}{355}, \frac{39}{355}, \frac{3}{355}, \frac{3}{355}, -\frac{134}{355}, \frac{117}{355}, \frac{81}{355}, \frac{81}{355}, -\frac{19}{71}) + \frac{2}{355}\sqrt{10726}e^2 \otimes e_5 + \frac{3}{355}\sqrt{7266}e^1 \otimes e_9$	{2346789, 23679, 269, 345789, 3579, 59}
94:7	$0, 0, 0, 0, 0, \frac{2}{361}\sqrt{2037}e^{12}, \frac{2}{361}\sqrt{10185}e^{13}, \frac{10}{361}\sqrt{97}e^{14}, \frac{2}{361}\sqrt{582}e^{25}$	$(\frac{48}{361}, \frac{12}{361}, \frac{96}{361}, -\frac{146}{361}, \frac{33}{361}, \frac{60}{361}, \frac{144}{361}, -\frac{98}{361}, \frac{45}{361}) + \frac{18}{361}\sqrt{194}e^3 \otimes e_8 + \frac{8}{361}\sqrt{970}e^1 \otimes e_4$	{12578, 12789, 156789, 1678, 24568, 24689, 4589, 48}
94:7	$0, 0, 0, 0, 0, \frac{1}{218}\sqrt{2533}e^{12}, \frac{1}{436}\sqrt{21307}e^{13}, \frac{1}{436}\sqrt{9089}e^{14}, \frac{1}{872}\sqrt{16390}e^{25}$	$(\frac{83}{1744}, -\frac{135}{872}, \frac{111}{1744}, -\frac{215}{1744}, \frac{123}{436}, -\frac{187}{1744}, \frac{97}{872}, -\frac{33}{436}, \frac{111}{872}) + \frac{1}{872}\sqrt{85079}e^1 \otimes e_4 + \frac{1}{872}\sqrt{85079}e^3 \otimes e_6 + \frac{7}{872}\sqrt{1490}e^5 \otimes e_7$	{1235, 167, 2456, 347}
94:7	$0, 0, 0, 0, 0, \frac{6}{17}\sqrt{3}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{6}{17}\sqrt{5}e^{14}, \frac{6}{17}\sqrt{2}e^{25}$	$(-\frac{4}{17}, \frac{4}{17}, \frac{12}{17}, -\frac{2}{17}, \frac{1}{17}, 0, \frac{8}{17}, -\frac{6}{17}, \frac{5}{17}) + \frac{6}{17}\sqrt{14}e^3 \otimes e_8$	{123456, 123469, 125678, 126789, 134, 13459, 15789, 178, 2357, 2379, 2458, 2489, 35679, 367, 45689, 468}
94:7	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{2}{11}\sqrt{2}e^{13}, \frac{2}{11}\sqrt{2}e^{14}, \frac{1}{11}\sqrt{10}e^{25}$	$(\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}) + \frac{1}{11}\sqrt{10}e^5 \otimes e_6 + \frac{2}{11}\sqrt{3}e^3 \otimes e_8 + \frac{3}{11}\sqrt{2}e^1 \otimes e_9$	{12345, 12578, 1346, 1678, 23679, 24689, 3579, 4589}
94:7	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{2183}e^{12}, \frac{7}{125}\sqrt{37}e^{13}, \frac{7}{125}\sqrt{37}e^{14}, \frac{1}{125}\sqrt{3811}e^{25}$	$(-\frac{3}{50}, -\frac{2}{25}, \frac{44}{125}, -\frac{1}{10}, \frac{17}{125}, -\frac{7}{50}, \frac{73}{250}, -\frac{4}{25}, \frac{7}{125}) + \frac{1}{125}\sqrt{4181}e^3 \otimes e_9 + \frac{1}{125}\sqrt{4181}e^5 \otimes e_8$	{123456, 126789, 138, 14579, 2357, 2489, 34678, 569}
94:7	$0, 0, 0, 0, 0, \frac{42}{443}\sqrt{3}e^{12}, \frac{12}{443}\sqrt{203}e^{13}, \frac{12}{443}\sqrt{203}e^{14}, \frac{6}{443}\sqrt{665}e^{25}$	$(\frac{53}{443}, -\frac{26}{443}, \frac{111}{443}, -\frac{68}{443}, -\frac{47}{443}, \frac{27}{443}, \frac{164}{443}, -\frac{15}{443}, -\frac{73}{443}) + \frac{36}{443}\sqrt{42}e^1 \otimes e_9 + \frac{6}{443}\sqrt{1253}e^3 \otimes e_8$	{123456, 125678, 134, 178, 2379, 2489, 35679, 45689}
94:7	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{1870}e^{12}, \frac{1}{111}\sqrt{2278}e^{13}, \frac{34}{111}e^{14}, \frac{4}{111}\sqrt{51}e^{25}$	$(-\frac{34}{111}, \frac{8}{37}, \frac{8}{37}, \frac{9}{37}, -\frac{2}{111}, -\frac{10}{111}, -\frac{10}{111}, -\frac{7}{111}, \frac{22}{111}) - \frac{1}{111}\sqrt{3230}e^3 \otimes e_6 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_7$	{123458, 123489, 1235, 1239, 1456789, 14678, 15679, 167, 2456, 2469, 2568, 2689, 34579, 347, 35789, 378}
94:7	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1295}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{210}e^{14}, \frac{2}{139}\sqrt{455}e^{25}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, \frac{15}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{12}{139}, -\frac{20}{139}, \frac{38}{139}) + \frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_7 - \frac{5}{139}\sqrt{119}e^3 \otimes e_6$	{123489, 1235, 14678, 15679, 2456, 2689, 34579, 378}
94:7	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{2}{11}\sqrt{2}e^{13}, \frac{2}{11}\sqrt{2}e^{14}, \frac{1}{11}\sqrt{10}e^{25}$	$(\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0, -\frac{1}{11}) - \frac{1}{11}\sqrt{10}e^5 \otimes e_6 + \frac{2}{11}\sqrt{3}e^3 \otimes e_8 + \frac{3}{11}\sqrt{2}e^1 \otimes e_9$	{12345, 12578, 1346, 1678, 23679, 24689, 3579, 4589}
94:7	$0, 0, 0, 0, 0, \frac{8}{237}\sqrt{30}e^{12}, \frac{8}{237}\sqrt{94}e^{13}, \frac{16}{237}\sqrt{5}e^{14}, \frac{8}{237}\sqrt{106}e^{25}$	$(-\frac{17}{79}, \frac{8}{79}, \frac{37}{237}, \frac{11}{237}, \frac{50}{237}, -\frac{9}{79}, -\frac{14}{237}, -\frac{40}{237}, \frac{74}{237}) + \frac{16}{237}\sqrt{41}e^5 \otimes e_7 + \frac{8}{237}\sqrt{142}e^2 \otimes e_8 + \frac{8}{79}\sqrt{14}e^3 \otimes e_6$	{12345, 1678, 256, 3478}
94:7	$0, 0, 0, 0, 0, \frac{1}{353}\sqrt{2290}e^{12}, \frac{2}{353}\sqrt{9389}e^{13}, \frac{1}{353}\sqrt{6870}e^{14}, \frac{1}{353}\sqrt{35266}e^{25}$	$(-\frac{30}{353}, \frac{77}{353}, \frac{154}{353}, \frac{57}{353}, -\frac{152}{353}, \frac{47}{353}, \frac{124}{353}, \frac{27}{353}, -\frac{75}{353}) + \frac{2}{353}\sqrt{22213}e^3 \otimes e_9 + \frac{3}{353}\sqrt{5954}e^2 \otimes e_5$	{124789, 1279, 1456789, 15679, 2469, 2689, 459, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:7	$0, 0, 0, 0, 0, \frac{1}{1585}\sqrt{327666}e^{12}, \frac{2}{1585}\sqrt{113163}e^{13}, \frac{4}{1585}\sqrt{6193}e^{14}, \frac{2}{1585}\sqrt{62493}e^{25}$	$(\frac{176}{1585}, -\frac{339}{1585}, \frac{80}{317}, \frac{86}{1585}, -\frac{48}{1585}, -\frac{163}{1585}, \frac{576}{1585}, \frac{262}{1585}, -\frac{387}{1585}) + \frac{2}{1585}\sqrt{176782}e^3 \otimes e_6 + \frac{3}{1585}\sqrt{97962}e^1 \otimes e_9$	{12345, 12358, 1467, 1678, 24689, 269, 345789, 3579}
94:7	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{26553}e^{12}, \frac{2}{659}\sqrt{6513}e^{13}, \frac{2}{659}\sqrt{10855}e^{14}, \frac{2}{659}\sqrt{13026}e^{25}$	$(-\frac{188}{659}, \frac{156}{659}, \frac{302}{659}, \frac{10}{659}, -\frac{3}{659}, -\frac{32}{659}, \frac{114}{659}, -\frac{178}{659}, \frac{153}{659}) + \frac{2}{659}\sqrt{44422}e^3 \otimes e_6 + \frac{2}{659}\sqrt{53106}e^2 \otimes e_8$	{12345, 12349, 156789, 1678, 256, 269, 345789, 3478}
94:7	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{2486}e^{12}, \frac{1}{143}\sqrt{7458}e^{13}, \frac{1}{143}\sqrt{7458}e^{14}, \frac{2}{143}\sqrt{2486}e^{25}$	$(\frac{6}{13}, -\frac{29}{143}, -\frac{7}{143}, -\frac{7}{143}, -\frac{18}{143}, \frac{37}{143}, \frac{59}{143}, \frac{59}{143}, -\frac{47}{143}) + \frac{3}{143}\sqrt{2938}e^1 \otimes e_9$	{12345, 12358, 12578, 1346, 1368, 1678, 2346789, 23679, 269, 345789, 3579, 59}
94:7	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1295}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{1085}e^{14}, \frac{1}{139}\sqrt{3115}e^{25}$	$(-\frac{33}{278}, -\frac{14}{139}, \frac{9}{278}, \frac{44}{139}, \frac{23}{139}, -\frac{61}{278}, -\frac{12}{139}, \frac{55}{278}, \frac{9}{139}) + \frac{1}{139}\sqrt{3885}e^5 \otimes e_7 + \frac{4}{139}\sqrt{105}e^3 \otimes e_6 + \frac{5}{139}\sqrt{133}e^4 \otimes e_9$	{126789, 13589, 2379, 569}
94:7	$0, 0, 0, 0, 0, \frac{12}{1001}\sqrt{70}e^{12}, \frac{6}{1001}\sqrt{1330}e^{13}, \frac{3}{1001}\sqrt{1670}e^{14}, \frac{90}{1001}\sqrt{7}e^{25}$	$(-\frac{167}{1001}, \frac{64}{1001}, \frac{141}{1001}, \frac{155}{1001}, -\frac{1}{77}, -\frac{103}{1001}, -\frac{2}{77}, -\frac{12}{1001}, \frac{51}{1001}) + \frac{3}{1001}\sqrt{4610}e^5 \otimes e_6 + \frac{3}{1001}\sqrt{6710}e^3 \otimes e_9 + \frac{3}{1001}\sqrt{7270}e^2 \otimes e_7$	{123458, 1235, 2469, 2689}
94:7	$0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{2870}e^{12}, \frac{2}{1411}\sqrt{155595}e^{13}, \frac{16}{1411}\sqrt{615}e^{14}, \frac{3}{1411}\sqrt{37310}e^{25}$	$(-\frac{256}{1411}, -\frac{151}{1411}, \frac{208}{1411}, \frac{271}{1411}, \frac{567}{1411}, -\frac{407}{1411}, -\frac{48}{1411}, \frac{15}{1411}, \frac{416}{1411}) + \frac{1}{1411}\sqrt{702330}e^3 \otimes e_6 + \frac{41}{1411}\sqrt{510}e^5 \otimes e_7$	{123458, 1235, 14678, 167, 2456, 2568, 347, 378}
94:7	$0, 0, 0, 0, 0, \frac{2}{1793}\sqrt{125255}e^{12}, \frac{6}{1793}\sqrt{9165}e^{13}, \frac{4}{1793}\sqrt{12831}e^{14}, \frac{1}{1793}\sqrt{563342}e^{25}$	$(-\frac{336}{1793}, \frac{181}{1793}, -\frac{94}{1793}, \frac{344}{1793}, \frac{456}{1793}, -\frac{155}{1793}, -\frac{430}{1793}, \frac{8}{1793}, \frac{637}{1793}) + \frac{13}{1793}\sqrt{5358}e^5 \otimes e_6 + \frac{2}{1793}\sqrt{267618}e^2 \otimes e_7$	{123458, 1235, 14678, 167, 2469, 2689, 34579, 35789}
94:7	$0, 0, 0, 0, 0, \frac{1}{3}e^{12}, \frac{1}{9}\sqrt{6}e^{13}, \frac{1}{9}\sqrt{6}e^{14}, \frac{1}{9}\sqrt{15}e^{25}$	$(\frac{2}{9}, -\frac{1}{3}, 0, 0, \frac{2}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9}, -\frac{1}{9}) + \frac{1}{3}\sqrt{3}e^1 \otimes e_9 - \frac{1}{9}\sqrt{21}e^5 \otimes e_6$	{12345, 12358, 12578, 1346, 1368, 1678, 2346789, 23679, 269, 345789, 3579, 59}
94:7	$0, 0, 0, 0, 0, \frac{66}{3269}\sqrt{87}e^{12}, \frac{22}{3269}\sqrt{3405}e^{13}, \frac{110}{3269}\sqrt{15}e^{14}, \frac{66}{3269}\sqrt{193}e^{25}$	$(\frac{57}{3269}, -\frac{62}{3269}, \frac{114}{3269}, -\frac{669}{3269}, \frac{897}{3269}, -\frac{5}{3269}, \frac{171}{3269}, -\frac{612}{3269}, \frac{835}{3269}) + \frac{440}{3269}\sqrt{6}e^1 \otimes e_4 + \frac{44}{3269}\sqrt{915}e^5 \otimes e_7 + \frac{66}{3269}\sqrt{331}e^3 \otimes e_8$	{126789, 178, 2458, 45689}
94:7	$0, 0, 0, 0, 0, \frac{8}{237}\sqrt{30}e^{12}, \frac{16}{237}\sqrt{5}e^{13}, \frac{8}{237}\sqrt{94}e^{14}, \frac{8}{237}\sqrt{106}e^{25}$	$(\frac{4}{79}, \frac{8}{79}, -\frac{52}{237}, -\frac{26}{237}, \frac{50}{237}, \frac{12}{79}, -\frac{40}{237}, -\frac{14}{237}, \frac{74}{237}) + \frac{16}{237}\sqrt{41}e^5 \otimes e_8 + \frac{8}{237}\sqrt{142}e^2 \otimes e_7 + \frac{8}{79}\sqrt{14}e^1 \otimes e_3$	{145679, 1678, 3478, 3579}
94:7	$0, 0, 0, 0, 0, \frac{5}{188}\sqrt{106}e^{12}, \frac{1}{188}\sqrt{4982}e^{13}, \frac{1}{188}\sqrt{4982}e^{14}, \frac{1}{94}\sqrt{583}e^{25}$	$(-\frac{53}{188}, \frac{19}{188}, \frac{85}{376}, \frac{85}{376}, \frac{19}{188}, -\frac{17}{94}, -\frac{21}{376}, -\frac{21}{376}, \frac{19}{94}) + \frac{5}{188}\sqrt{106}e^5 \otimes e_6 + \frac{7}{188}\sqrt{159}e^3 \otimes e_8 + \frac{7}{188}\sqrt{159}e^4 \otimes e_7$	{123469, 126789, 13459, 15789, 2357, 367}
94:7	$0, 0, 0, 0, 0, \frac{5}{188}\sqrt{106}e^{12}, \frac{1}{188}\sqrt{4982}e^{13}, \frac{1}{188}\sqrt{4982}e^{14}, \frac{1}{94}\sqrt{583}e^{25}$	$(-\frac{53}{188}, \frac{19}{188}, \frac{85}{376}, \frac{85}{376}, \frac{19}{188}, -\frac{17}{94}, -\frac{21}{376}, -\frac{21}{376}, \frac{19}{94}) + \frac{5}{188}\sqrt{106}e^5 \otimes e_6 + \frac{7}{188}\sqrt{159}e^3 \otimes e_8 - \frac{7}{188}\sqrt{159}e^4 \otimes e_7$	{123469, 126789, 13459, 15789, 2357, 367}
94:7	$0, 0, 0, 0, 0, \frac{6}{4189}\sqrt{4399}e^{12}, \frac{2}{4189}\sqrt{110805}e^{13}, \frac{2}{4189}\sqrt{54863}e^{14}, \frac{2}{4189}\sqrt{99185}e^{25}$	$(\frac{241}{4189}, -\frac{398}{4189}, \frac{66}{4189}, -\frac{341}{4189}, \frac{473}{4189}, -\frac{157}{4189}, \frac{307}{4189}, -\frac{100}{4189}, \frac{75}{4189}) + \frac{24}{4189}\sqrt{830}e^1 \otimes e_9 + \frac{2}{4189}\sqrt{89723}e^3 \otimes e_8 + \frac{4}{4189}\sqrt{27971}e^5 \otimes e_7$	{123456, 178, 2379, 45689}
94:8	$0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{995070}e^{12}, \frac{3}{1819}\sqrt{52890}e^{13}, \frac{1}{1819}\sqrt{271830}e^{14}, \frac{6}{1819}\sqrt{17015}e^{35}$	$(-\frac{276}{1819}, \frac{270}{1819}, \frac{35}{1819}, -\frac{345}{1819}, \frac{609}{1819}, -\frac{6}{1819}, -\frac{241}{1819}, -\frac{75}{1819}, \frac{644}{1819}) + \frac{31}{1819}\sqrt{1230}e^5 \otimes e_6 + \frac{4}{1819}\sqrt{54735}e^2 \otimes e_4$	{12357, 1259, 134679, 146, 2369, 267, 345, 4579}
94:8	$0, 0, 0, 0, 0, \frac{2}{557}\sqrt{3567}e^{12}, \frac{2}{557}\sqrt{754}e^{13}, \frac{2}{557}\sqrt{609}e^{24}, \frac{2}{557}\sqrt{5133}e^{35}$	$(\frac{88}{557}, -\frac{99}{557}, -\frac{17}{557}, \frac{24}{557}, \frac{47}{557}, -\frac{11}{557}, \frac{71}{557}, -\frac{75}{557}, \frac{30}{557}) + \frac{16}{557}\sqrt{87}e^1 \otimes e_9 + \frac{2}{557}\sqrt{4089}e^3 \otimes e_8 + \frac{2}{557}\sqrt{5191}e^5 \otimes e_6$	{12345, 14678, 234679, 4589}
94:8	$0, 0, 0, 0, 0, \frac{3}{217}\sqrt{130}e^{12}, \frac{3}{217}\sqrt{130}e^{13}, \frac{6}{217}\sqrt{170}e^{24}, \frac{6}{217}\sqrt{170}e^{35}$	$(-\frac{3}{217}, \frac{39}{217}, \frac{39}{217}, -\frac{45}{217}, -\frac{45}{217}, \frac{36}{217}, \frac{36}{217}, -\frac{6}{217}, -\frac{6}{217}) + \frac{3}{217}\sqrt{970}e^2 \otimes e_9 + \frac{3}{217}\sqrt{970}e^3 \otimes e_8$	{12345, 1278, 1456789, 234567, 268, 4589}
94:8	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{1}{9}\sqrt{6}e^{24}, \frac{1}{9}\sqrt{6}e^{35}$	$(-\frac{1}{3}, \frac{2}{9}, \frac{2}{9}, 0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9}) + \frac{2}{9}\sqrt{6}e^2 \otimes e_7 + \frac{2}{9}\sqrt{6}e^3 \otimes e_6$	{12345, 12349, 12389, 1456789, 14678, 167, 24569, 246, 25689, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:8	$0, 0, 0, 0, 0, \frac{1}{965}\sqrt{56882}e^{12}, \frac{4}{965}\sqrt{5117}e^{13}, \frac{1}{965}\sqrt{97818}e^{24}, \frac{8}{965}\sqrt{357}e^{35}$	$(\frac{163}{965}, -\frac{238}{965}, -\frac{133}{965}, \frac{163}{965}, \frac{268}{965}, -\frac{15}{193}, \frac{6}{193}, -\frac{15}{193}, \frac{27}{193})$ $-\frac{1}{965}\sqrt{133994}e^4 \otimes e_6 + \frac{2}{965}\sqrt{27251}e^5 \otimes e_7 + \frac{7}{965}\sqrt{3570}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{2418}e^{12}, \frac{1}{141}\sqrt{39}e^{13}, \frac{1}{47}\sqrt{65}e^{24}, \frac{1}{141}\sqrt{2769}e^{35}$	$(-\frac{6}{47}, \frac{3}{47}, \frac{10}{47}, -\frac{10}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{4}{47}, -\frac{7}{47}, \frac{16}{47})$ $+\frac{1}{141}\sqrt{2730}e^2 \otimes e_4 + \frac{1}{141}\sqrt{3198}e^5 \otimes e_8 + \frac{1}{47}\sqrt{455}e^3 \otimes e_6$	{123789, 1468, 2678, 3489}
94:8	$0, 0, 0, 0, 0, \frac{7}{104}\sqrt{6}e^{12}, \frac{7}{104}\sqrt{6}e^{13}, \frac{1}{104}\sqrt{1554}e^{24}, \frac{1}{104}\sqrt{1554}e^{35}$	$(\frac{23}{104}, -\frac{21}{104}, -\frac{21}{104}, \frac{3}{16}, \frac{3}{16}, \frac{1}{52}, \frac{1}{52}, -\frac{3}{208}, -\frac{3}{208})$ $+\frac{1}{104}\sqrt{1995}e^4 \otimes e_9 + \frac{1}{104}\sqrt{1995}e^5 \otimes e_8$	{1234567, 1236789, 148, 2345, 2389, 4678}
94:8	$0, 0, 0, 0, 0, \frac{5}{1569}\sqrt{13530}e^{12}, \frac{2}{1569}\sqrt{10373}e^{13}, \frac{2}{1569}\sqrt{89749}e^{24}, \frac{4}{1569}\sqrt{16687}e^{35}$	$(\frac{388}{1569}, \frac{161}{1569}, -\frac{56}{523}, -\frac{224}{1569}, -\frac{122}{1569}, \frac{183}{523}, \frac{220}{1569}, -\frac{21}{523}, -\frac{290}{1569})$ $+\frac{1}{1569}\sqrt{572770}e^1 \otimes e_8 + \frac{4}{1569}\sqrt{42845}e^2 \otimes e_9$	{12345, 1247, 1369, 15679, 235678, 268, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{11}{1615}\sqrt{3486}e^{12}, \frac{33}{1615}\sqrt{74}e^{13}, \frac{11}{1615}\sqrt{102}e^{24}, \frac{66}{1615}\sqrt{47}e^{35}$	$(\frac{12}{323}, \frac{6}{323}, -\frac{49}{1615}, -\frac{333}{1615}, \frac{453}{323}, \frac{18}{1615}, \frac{11}{1615}, -\frac{303}{1615}, \frac{404}{1615})$ $+\frac{11}{1615}\sqrt{3678}e^5 \otimes e_6 + \frac{132}{1615}\sqrt{17}e^1 \otimes e_8 + \frac{44}{1615}\sqrt{177}e^2 \otimes e_4$	{12357, 1259, 134679, 146}
94:8	$0, 0, 0, 0, 0, \frac{60}{1009}\sqrt{30}e^{12}, \frac{10}{1009}\sqrt{565}e^{13}, \frac{20}{1009}\sqrt{55}e^{24}, \frac{10}{1009}\sqrt{1105}e^{35}$	$(-\frac{245}{1009}, \frac{145}{1009}, \frac{150}{1009}, -\frac{105}{1009}, \frac{155}{1009}, -\frac{100}{1009}, \frac{95}{1009}, \frac{40}{1009}, \frac{305}{1009})$ $+\frac{10}{1009}\sqrt{1165}e^2 \otimes e_4 + \frac{200}{1009}\sqrt{5}e^3 \otimes e_6 + \frac{20}{1009}\sqrt{365}e^5 \otimes e_7$	{1235, 1467, 2569, 3479}
94:8	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{4}{39}\sqrt{10}e^{13}, \frac{20}{39}e^{24}, \frac{4}{39}\sqrt{11}e^{35}$	$(\frac{31}{78}, -\frac{19}{78}, -\frac{2}{13}, \frac{3}{13}, -\frac{1}{39}, \frac{2}{13}, \frac{19}{78}, -\frac{1}{78}, -\frac{7}{39})$ $+\frac{4}{39}\sqrt{34}e^4 \otimes e_9 + \frac{4}{39}\sqrt{35}e^1 \otimes e_8$	{12345, 1247, 1369, 15679, 236789, 25689, 34578, 48}
94:8	$0, 0, 0, 0, 0, \frac{2}{997}\sqrt{10481}e^{12}, \frac{1}{997}\sqrt{6110}e^{13}, \frac{1}{997}\sqrt{13442}e^{24}, \frac{1}{997}\sqrt{60442}e^{35}$	$(-\frac{173}{997}, \frac{143}{997}, \frac{64}{997}, \frac{11}{997}, -\frac{15}{997}, -\frac{30}{997}, -\frac{109}{997}, \frac{154}{997}, \frac{49}{997})$ $+\frac{1}{997}\sqrt{63074}e^3 \otimes e_6 + \frac{2}{997}\sqrt{16685}e^2 \otimes e_9 + \frac{8}{997}\sqrt{658}e^5 \otimes e_7$	{12345, 12358, 34789, 379}
94:8	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{10}e^{12}, \frac{4}{49}\sqrt{10}e^{13}, \frac{10}{49}\sqrt{2}e^{24}, \frac{2}{49}\sqrt{30}e^{35}$	$(-\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{2}{49}, \frac{12}{49})$ $+\frac{12}{49}e^5 \otimes e_6 + \frac{2}{49}\sqrt{66}e^2 \otimes e_7 + \frac{4}{49}\sqrt{19}e^3 \otimes e_8$	{12345, 14678, 268, 357}
94:8	$0, 0, 0, 0, 0, \frac{4}{1587}\sqrt{3795}e^{12}, \frac{1}{1587}\sqrt{24970}e^{13}, \frac{2}{1587}\sqrt{4345}e^{24}, \frac{5}{1587}\sqrt{2266}e^{35}$	$(\frac{61}{1587}, \frac{47}{1587}, -\frac{57}{529}, -\frac{41}{1587}, \frac{163}{1587}, \frac{36}{529}, -\frac{110}{1587}, \frac{2}{529}, -\frac{8}{1587})$ $+\frac{11}{1587}\sqrt{510}e^5 \otimes e_6 + \frac{1}{1587}\sqrt{29590}e^1 \otimes e_8 + \frac{80}{1587}\sqrt{11}e^2 \otimes e_9$	{123457, 13679, 2678, 45789}
94:8	$0, 0, 0, 0, 0, \frac{84}{377}e^{12}, \frac{3}{377}\sqrt{770}e^{13}, \frac{3}{377}\sqrt{1498}e^{24}, \frac{36}{377}\sqrt{14}e^{35}$	$(\frac{34}{377}, \frac{57}{377}, -\frac{54}{377}, -\frac{72}{377}, \frac{48}{377}, \frac{7}{29}, -\frac{20}{377}, -\frac{15}{377}, -\frac{6}{377})$ $+\frac{3}{377}\sqrt{2198}e^5 \otimes e_8 + \frac{2}{377}\sqrt{2590}e^2 \otimes e_9$	{123457, 128, 1346789, 1569, 23456, 2678, 3489, 579}
94:8	$0, 0, 0, 0, 0, \frac{2}{349}\sqrt{2567}e^{12}, \frac{4}{349}\sqrt{453}e^{13}, \frac{1}{349}\sqrt{31710}e^{24}, \frac{2}{349}\sqrt{5738}e^{35}$	$(\frac{28}{349}, -\frac{101}{349}, -\frac{14}{349}, \frac{78}{349}, \frac{128}{349}, -\frac{73}{349}, \frac{14}{349}, -\frac{23}{349}, \frac{114}{349})$ $+\frac{1}{349}\sqrt{43790}e^4 \otimes e_6 + \frac{2}{349}\sqrt{12533}e^5 \otimes e_8$	{123457, 12459, 13567, 1569, 23689, 2678, 3489, 478}
94:8	$0, 0, 0, 0, 0, \frac{9}{1609}\sqrt{8270}e^{12}, \frac{6}{1609}\sqrt{9097}e^{13}, \frac{14}{1609}\sqrt{1654}e^{24}, \frac{2}{1609}\sqrt{2481}e^{35}$	$(\frac{390}{1609}, \frac{195}{1609}, -\frac{12}{1609}, -\frac{632}{1609}, \frac{186}{1609}, \frac{585}{1609}, \frac{378}{1609}, -\frac{437}{1609}, \frac{174}{1609})$ $+\frac{1}{1609}\sqrt{1344702}e^1 \otimes e_8 + \frac{4}{1609}\sqrt{63679}e^2 \otimes e_4$	{2356789, 23678, 2568, 2689, 345789, 3478, 458, 489}
94:8	$0, 0, 0, 0, 0, \frac{2}{141}\sqrt{345}e^{12}, \frac{2}{141}\sqrt{30}e^{13}, \frac{1}{141}\sqrt{30}e^{24}, \frac{5}{141}\sqrt{42}e^{35}$	$(\frac{11}{141}, -\frac{2}{141}, -\frac{28}{141}, \frac{4}{47}, \frac{8}{47}, \frac{3}{47}, -\frac{17}{141}, \frac{10}{141}, -\frac{4}{141})$ $+\frac{10}{141}\sqrt{15}e^1 \otimes e_9 + \frac{4}{47}\sqrt{10}e^5 \otimes e_6 + \frac{8}{141}\sqrt{15}e^2 \otimes e_7$	{123458, 1235, 1467, 1678}
94:8	$0, 0, 0, 0, 0, \frac{2}{181}\sqrt{370}e^{12}, \frac{2}{181}\sqrt{703}e^{13}, \frac{2}{181}\sqrt{2109}e^{24}, \frac{2}{181}\sqrt{1073}e^{35}$	$(-\frac{8}{181}, \frac{39}{181}, -\frac{27}{181}, \frac{39}{181}, -\frac{8}{181}, \frac{31}{181}, -\frac{35}{181}, \frac{78}{181}, -\frac{35}{181})$ $+\frac{10}{181}\sqrt{111}e^4 \otimes e_7 + \frac{1}{181}\sqrt{3145}e^2 \otimes e_9$	{12345, 1278, 134689, 15679, 235678, 246, 379, 4589}
94:8	$0, 0, 0, 0, 0, \frac{8}{353}\sqrt{154}e^{12}, \frac{3}{353}\sqrt{154}e^{13}, \frac{2}{353}\sqrt{2233}e^{24}, \frac{1}{353}\sqrt{13706}e^{35}$	$(-\frac{24}{353}, \frac{4}{353}, -\frac{49}{353}, \frac{85}{353}, \frac{57}{353}, -\frac{20}{353}, -\frac{73}{353}, \frac{89}{353}, \frac{8}{353})$ $+\frac{1}{353}\sqrt{14630}e^2 \otimes e_7 + \frac{1}{353}\sqrt{17710}e^5 \otimes e_6 + \frac{28}{353}\sqrt{22}e^4 \otimes e_9$	{12589, 13679, 23689, 579}
94:8	$0, 0, 0, 0, 0, \frac{56}{225}\sqrt{5}e^{12}, \frac{28}{225}e^{13}, \frac{14}{225}\sqrt{19}e^{24}, \frac{28}{225}\sqrt{11}e^{35}$	$(-\frac{61}{225}, \frac{17}{75}, \frac{88}{225}, -\frac{47}{225}, -\frac{7}{75}, -\frac{2}{45}, \frac{3}{25}, \frac{4}{225}, \frac{67}{225})$ $+\frac{14}{225}\sqrt{113}e^3 \otimes e_6 + \frac{14}{225}\sqrt{89}e^2 \otimes e_4$	{1235, 1239, 145679, 1467, 2569, 26, 3457, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:8	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{6}e^{13}, \frac{2}{11}\sqrt{2}e^{24}, \frac{2}{11}\sqrt{2}e^{35}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, 0, \frac{3}{11})$ $+\frac{1}{11}\sqrt{14}e^2 \otimes e_7 + \frac{1}{11}\sqrt{14}e^3 \otimes e_6 + \frac{2}{11}\sqrt{3}e^5 \otimes e_8$	{12345, 12389, 14678, 15679, 24569, 268, 34789, 357}
94:8	$0, 0, 0, 0, 0, \frac{1}{965}\sqrt{56882}e^{12}, \frac{4}{965}\sqrt{5117}e^{13}, \frac{1}{965}\sqrt{97818}e^{24}, \frac{8}{965}\sqrt{357}e^{35}$	$(\frac{163}{965}, -\frac{238}{965}, -\frac{133}{965}, \frac{163}{965}, \frac{268}{965}, -\frac{15}{193}, \frac{6}{193}, -\frac{15}{193}, \frac{27}{193})$ $+\frac{1}{965}\sqrt{133994}e^4 \otimes e_6 + \frac{2}{965}\sqrt{27251}e^5 \otimes e_7 + \frac{7}{965}\sqrt{3570}e^1 \otimes e_8$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{8}{353}\sqrt{154}e^{12}, \frac{3}{353}\sqrt{154}e^{13}, \frac{2}{353}\sqrt{2233}e^{24}, \frac{1}{353}\sqrt{13706}e^{35}$	$(\frac{71}{353}, -\frac{91}{353}, -\frac{49}{353}, \frac{85}{353}, \frac{57}{353}, -\frac{20}{353}, \frac{22}{353}, -\frac{6}{353}, \frac{8}{353})$ $+\frac{1}{353}\sqrt{14630}e^1 \otimes e_8 + \frac{1}{353}\sqrt{17710}e^5 \otimes e_6 + \frac{28}{353}\sqrt{22}e^4 \otimes e_9$	{123457, 13679, 23689, 3458}
94:8	$0, 0, 0, 0, 0, \frac{4}{581}\sqrt{9805}e^{12}, \frac{212}{581}\sqrt{2}e^{13}, \frac{8}{581}\sqrt{1749}e^{24}, \frac{4}{581}\sqrt{12137}e^{35}$	$(\frac{17}{581}, \frac{264}{581}, -\frac{27}{581}, -\frac{36}{581}, \frac{19}{83}, \frac{281}{581}, -\frac{10}{581}, \frac{228}{581}, -\frac{160}{581})$ $+\frac{4}{581}\sqrt{25705}e^2 \otimes e_9$	{123457, 123578, 124, 128, 1346789, 13679, 145689, 1569, 23456, 23568, 2467, 2678, 3489, 39, 45789, 579}
94:8	$0, 0, 0, 0, 0, \frac{8}{1169}\sqrt{182}e^{12}, \frac{1}{1169}\sqrt{8502}e^{13}, \frac{6}{1169}\sqrt{455}e^{24}, \frac{10}{1169}\sqrt{182}e^{35}$	$(\frac{23}{1169}, \frac{2}{1169}, -\frac{103}{1169}, \frac{51}{1169}, \frac{79}{1169}, \frac{25}{1169}, -\frac{80}{1169}, \frac{53}{1169}, -\frac{24}{1169})$ $+\frac{1}{1169}\sqrt{14690}e^4 \otimes e_6 + \frac{1}{1169}\sqrt{17966}e^5 \otimes e_8 + \frac{1}{1169}\sqrt{23790}e^2 \otimes e_9$	{123457, 1569, 2678, 3489}
94:8	$0, 0, 0, 0, 0, \frac{20}{2809}\sqrt{1118}e^{12}, \frac{130}{2809}\sqrt{61}e^{13}, \frac{40}{2809}\sqrt{533}e^{24}, \frac{30}{2809}\sqrt{897}e^{35}$	$(-\frac{185}{2809}, \frac{105}{2809}, \frac{210}{2809}, -\frac{545}{2809}, \frac{675}{2809}, -\frac{80}{2809}, \frac{25}{2809}, -\frac{440}{2809}, \frac{885}{2809})$ $+\frac{20}{2809}\sqrt{3354}e^5 \otimes e_7 + \frac{30}{2809}\sqrt{221}e^2 \otimes e_4 + \frac{40}{2809}\sqrt{1105}e^3 \otimes e_8$	{12678, 1478, 2589, 45689}
94:8	$0, 0, 0, 0, 0, \frac{10}{537}\sqrt{7}e^{12}, \frac{2}{537}\sqrt{2415}e^{13}, \frac{2}{537}\sqrt{1435}e^{24}, \frac{7}{537}\sqrt{190}e^{35}$	$(\frac{62}{537}, -\frac{10}{179}, -\frac{35}{537}, -\frac{40}{537}, \frac{62}{537}, \frac{32}{537}, \frac{9}{179}, -\frac{70}{537}, \frac{9}{179})$ $+\frac{1}{179}\sqrt{1190}e^5 \otimes e_7 + \frac{2}{537}\sqrt{2590}e^1 \otimes e_9 + \frac{2}{537}\sqrt{3395}e^3 \otimes e_8$	{123456, 12678, 135, 1478, 23479, 2589, 3679, 45689}
94:8	$0, 0, 0, 0, 0, \frac{10}{537}\sqrt{7}e^{12}, \frac{2}{537}\sqrt{2415}e^{13}, \frac{2}{537}\sqrt{1435}e^{24}, \frac{7}{537}\sqrt{190}e^{35}$	$(\frac{62}{537}, -\frac{10}{179}, -\frac{35}{537}, -\frac{40}{537}, \frac{62}{537}, \frac{32}{537}, \frac{9}{179}, -\frac{70}{537}, \frac{9}{179})$ $-\frac{1}{179}\sqrt{1190}e^5 \otimes e_7 + \frac{2}{537}\sqrt{2590}e^1 \otimes e_9 + \frac{2}{537}\sqrt{3395}e^3 \otimes e_8$	{123456, 12678, 135, 1478, 23479, 2589, 3679, 45689}
94:8	$0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{1}{79}\sqrt{70}e^{13}, \frac{2}{79}\sqrt{105}e^{24}, \frac{5}{79}\sqrt{42}e^{35}$	$(-\frac{16}{79}, \frac{12}{79}, -\frac{7}{79}, \frac{3}{79}, \frac{31}{79}, -\frac{4}{79}, -\frac{23}{79}, \frac{15}{79}, \frac{24}{79})$ $+\frac{1}{79}\sqrt{2310}e^2 \otimes e_7 + \frac{1}{79}\sqrt{2590}e^5 \otimes e_6$	{12345, 12358, 14678, 167, 246, 268, 34578, 357}
94:8	$0, 0, 0, 0, 0, \frac{12}{3433}\sqrt{4395}e^{12}, \frac{16}{3433}\sqrt{1465}e^{13}, \frac{20}{3433}\sqrt{2051}e^{24}, \frac{4}{3433}\sqrt{49810}e^{35}$	$(\frac{527}{3433}, \frac{327}{3433}, -\frac{686}{3433}, -\frac{386}{3433}, \frac{427}{3433}, \frac{854}{3433}, -\frac{159}{3433}, -\frac{59}{3433}, -\frac{259}{3433})$ $+\frac{2}{3433}\sqrt{232349}e^5 \otimes e_7 + \frac{2}{3433}\sqrt{314389}e^1 \otimes e_8 + \frac{2}{3433}\sqrt{367129}e^2 \otimes e_9$	{12345, 1247, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{7}e^{12}, \frac{1}{35}\sqrt{182}e^{13}, \frac{2}{35}\sqrt{42}e^{24}, \frac{1}{35}\sqrt{42}e^{35}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{14}e^5 \otimes e_6 + \frac{1}{35}\sqrt{210}e^1 \otimes e_8 + \frac{4}{35}\sqrt{14}e^4 \otimes e_7$	{12346, 157, 235789, 4689}
94:8	$0, 0, 0, 0, 0, \frac{4}{3769}\sqrt{1239}e^{12}, \frac{118}{3769}\sqrt{77}e^{13}, \frac{2}{3769}\sqrt{374591}e^{24}, \frac{2}{3769}\sqrt{266385}e^{35}$	$(\frac{883}{3769}, \frac{560}{3769}, -\frac{959}{3769}, \frac{617}{3769}, \frac{750}{3769}, \frac{323}{3769}, -\frac{76}{3769}, \frac{57}{3769}, -\frac{209}{3769})$ $+\frac{2}{3769}\sqrt{489405}e^1 \otimes e_8 + \frac{2}{3769}\sqrt{491057}e^4 \otimes e_9 + \frac{4}{3769}\sqrt{109445}e^5 \otimes e_7$	{123456, 12467, 23789, 2589}
94:8	$0, 0, 0, 0, 0, \frac{23}{221}\sqrt{2}e^{12}, \frac{2}{221}\sqrt{1633}e^{13}, \frac{1}{221}\sqrt{7130}e^{24}, \frac{1}{221}\sqrt{1794}e^{35}$	$(-\frac{37}{221}, \frac{48}{221}, \frac{3}{221}, -\frac{55}{221}, \frac{3}{221}, \frac{11}{221}, \frac{2}{221}, -\frac{7}{221}, \frac{42}{221})$ $+\frac{1}{221}\sqrt{8418}e^2 \otimes e_7 + \frac{2}{221}\sqrt{2461}e^3 \otimes e_8$	{123456, 123469, 145789, 1478, 2589, 28, 3567, 3679}
94:8	$0, 0, 0, 0, 0, \frac{1}{277}\sqrt{30290}e^{12}, \frac{1}{277}\sqrt{57318}e^{13}, \frac{2}{277}\sqrt{13281}e^{24}, \frac{3}{277}\sqrt{1398}e^{35}$	$(-\frac{16}{277}, -\frac{7}{277}, -\frac{54}{277}, \frac{163}{277}, \frac{69}{277}, -\frac{23}{277}, -\frac{70}{277}, \frac{156}{277}, \frac{15}{277})$ $+\frac{1}{277}\sqrt{109510}e^4 \otimes e_7$	{1234569, 12346, 125678, 126789, 134589, 1348, 157, 179, 235789, 2378, 245, 249, 35679, 367, 4568, 4689}
94:8	$0, 0, 0, 0, 0, \frac{3}{205}\sqrt{986}e^{12}, \frac{3}{205}\sqrt{986}e^{13}, \frac{6}{205}\sqrt{17}e^{24}, \frac{6}{205}\sqrt{17}e^{35}$	$(-\frac{7}{41}, \frac{87}{205}, \frac{87}{205}, -\frac{66}{205}, -\frac{66}{205}, \frac{52}{205}, \frac{52}{205}, \frac{21}{205}, \frac{21}{205})$ $+\frac{3}{205}\sqrt{3094}e^2 \otimes e_4 + \frac{3}{205}\sqrt{3094}e^3 \otimes e_5$	{123, 1257, 14567, 2367, 256, 45}
94:8	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{1}{9}\sqrt{6}e^{24}, \frac{1}{9}\sqrt{6}e^{35}$	$(\frac{1}{9}, \frac{2}{9}, -\frac{2}{9}, 0, 0, \frac{1}{3}, -\frac{1}{9}, \frac{2}{9}, -\frac{2}{9})$ $+\frac{2}{9}\sqrt{6}e^1 \otimes e_9 + \frac{2}{9}\sqrt{6}e^2 \otimes e_7$	{12345, 12358, 14678, 167, 24569, 25689, 34789, 379}
94:8	$0, 0, 0, 0, 0, \frac{18}{3589}\sqrt{3255}e^{12}, \frac{12}{3589}\sqrt{2345}e^{13}, \frac{6}{3589}\sqrt{24605}e^{24}, \frac{84}{3589}\sqrt{165}e^{35}$	$(-\frac{255}{3589}, \frac{321}{3589}, -\frac{342}{3589}, \frac{696}{3589}, \frac{33}{3589}, \frac{66}{3589}, -\frac{597}{3589}, \frac{1017}{3589}, -\frac{309}{3589})$ $+\frac{210}{3589}\sqrt{31}e^4 \otimes e_6 + \frac{42}{3589}\sqrt{1105}e^2 \otimes e_9 + \frac{6}{3589}\sqrt{22505}e^5 \otimes e_7$	{13679, 1569, 23568, 2678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:8	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{1463}e^{12}, \frac{2}{215}\sqrt{1463}e^{13}, \frac{1}{215}\sqrt{8778}e^{24}, \frac{1}{215}\sqrt{8778}e^{35}$	$(-\frac{17}{215}, -\frac{28}{215}, -\frac{28}{215}, \frac{88}{215}, \frac{88}{215}, -\frac{9}{43}, -\frac{9}{43}, \frac{12}{43}, \frac{12}{43})$ $+\frac{2}{215}\sqrt{6251}e^4 \otimes e_6 + \frac{2}{215}\sqrt{6251}e^5 \otimes e_7$	{12345, 1247, 167, 236789, 25689, 4589}
94:8	$0, 0, 0, 0, 0, \frac{2}{23}\sqrt{11}e^{12}, \frac{2}{23}\sqrt{11}e^{13}, \frac{4}{23}\sqrt{22}e^{24}, \frac{4}{23}\sqrt{22}e^{35}$	$(\frac{6}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{15}{23}, -\frac{4}{23}, \frac{3}{23}, \frac{3}{23}, \frac{12}{23}, -\frac{7}{23})$ $+\frac{2}{23}\sqrt{209}e^4 \otimes e_9$	{1234567, 1236789, 1246, 125689, 134578, 1379, 148, 159, 2345, 2389, 247, 25789, 34568, 369, 4678, 5679}
94:8	$0, 0, 0, 0, 0, \frac{10}{329}\sqrt{14}e^{12}, \frac{4}{329}\sqrt{70}e^{13}, \frac{1}{329}\sqrt{310}e^{24}, \frac{2}{329}\sqrt{455}e^{35}$	$(\frac{11}{329}, -\frac{31}{329}, -\frac{10}{329}, \frac{39}{329}, \frac{11}{329}, -\frac{20}{329}, \frac{1}{329}, \frac{8}{329}, \frac{1}{329})$ $+\frac{1}{329}\sqrt{1570}e^5 \otimes e_7 + \frac{1}{329}\sqrt{2270}e^1 \otimes e_9 + \frac{1}{329}\sqrt{2270}e^3 \otimes e_6$	{123458, 1235, 1467, 1678, 245689, 2569, 3479, 3789}
94:8	$0, 0, 0, 0, 0, \frac{10}{329}\sqrt{14}e^{12}, \frac{4}{329}\sqrt{70}e^{13}, \frac{1}{329}\sqrt{310}e^{24}, \frac{2}{329}\sqrt{455}e^{35}$	$(\frac{11}{329}, -\frac{31}{329}, -\frac{10}{329}, \frac{39}{329}, \frac{11}{329}, -\frac{20}{329}, \frac{1}{329}, \frac{8}{329}, \frac{1}{329})$ $-\frac{1}{329}\sqrt{1570}e^5 \otimes e_7 + \frac{1}{329}\sqrt{2270}e^1 \otimes e_9 + \frac{1}{329}\sqrt{2270}e^3 \otimes e_6$	{123458, 1235, 1467, 1678, 245689, 2569, 3479, 3789}
94:8	$0, 0, 0, 0, 0, \frac{60}{1009}\sqrt{30}e^{12}, \frac{10}{1009}\sqrt{565}e^{13}, \frac{20}{1009}\sqrt{55}e^{24}, \frac{10}{1009}\sqrt{1105}e^{35}$	$(\frac{155}{1009}, \frac{145}{1009}, -\frac{250}{1009}, -\frac{105}{1009}, \frac{155}{1009}, \frac{300}{1009}, -\frac{95}{1009}, \frac{40}{1009}, -\frac{95}{1009})$ $+\frac{10}{1009}\sqrt{1165}e^2 \otimes e_4 + \frac{200}{1009}\sqrt{5}e^1 \otimes e_9 + \frac{20}{1009}\sqrt{365}e^5 \otimes e_7$	{1235, 127, 13456, 1467, 23679, 2569, 3479, 459}
94:8	$0, 0, 0, 0, 0, \frac{60}{1009}\sqrt{30}e^{12}, \frac{10}{1009}\sqrt{565}e^{13}, \frac{20}{1009}\sqrt{55}e^{24}, \frac{10}{1009}\sqrt{1105}e^{35}$	$(\frac{155}{1009}, \frac{145}{1009}, -\frac{250}{1009}, -\frac{105}{1009}, \frac{155}{1009}, \frac{300}{1009}, -\frac{95}{1009}, \frac{40}{1009}, -\frac{95}{1009})$ $+\frac{10}{1009}\sqrt{1165}e^2 \otimes e_4 + \frac{200}{1009}\sqrt{5}e^1 \otimes e_9 - \frac{20}{1009}\sqrt{365}e^5 \otimes e_7$	{1235, 127, 13456, 1467, 23679, 2569, 3479, 459}
94:8	$0, 0, 0, 0, 0, \frac{6}{1799}\sqrt{26}e^{12}, \frac{12}{1799}\sqrt{403}e^{13}, \frac{6}{1799}\sqrt{2951}e^{24}, \frac{3}{1799}\sqrt{13442}e^{35}$	$(-\frac{96}{1799}, \frac{240}{1799}, \frac{51}{1799}, -\frac{306}{1799}, \frac{72}{1799}, \frac{144}{1799}, -\frac{45}{1799}, -\frac{66}{1799}, \frac{123}{1799})$ $+\frac{6}{1799}\sqrt{3523}e^2 \otimes e_9 + \frac{6}{1799}\sqrt{4342}e^3 \otimes e_8 + \frac{9}{257}\sqrt{26}e^5 \otimes e_7$	{123456, 12678, 3679, 45689}
94:8	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{1}{9}\sqrt{6}e^{24}, \frac{1}{9}\sqrt{6}e^{35}$	$(-\frac{1}{3}, \frac{2}{9}, \frac{2}{9}, 0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9})$ $+\frac{2}{9}\sqrt{6}e^2 \otimes e_7 - \frac{2}{9}\sqrt{6}e^3 \otimes e_6$	{12345, 12349, 12389, 1456789, 14678, 167, 24569, 246, 25689, 268}
94:8	$0, 0, 0, 0, 0, \frac{57}{473}\sqrt{10}e^{12}, \frac{6}{473}\sqrt{589}e^{13}, \frac{18}{473}\sqrt{133}e^{24}, \frac{6}{473}\sqrt{38}e^{35}$	$(\frac{120}{473}, -\frac{171}{473}, -\frac{8}{473}, \frac{120}{473}, \frac{54}{473}, -\frac{51}{473}, \frac{112}{473}, -\frac{51}{473}, \frac{46}{473})$ $+\frac{3}{473}\sqrt{8626}e^1 \otimes e_8 - \frac{42}{473}\sqrt{38}e^4 \otimes e_6$	{1234, 123459, 12457, 12479, 13569, 136, 1567, 1679, 2356789, 23678, 2568, 2689, 345789, 3478, 458, 489}
94:8	$0, 0, 0, 0, 0, \frac{4}{39}e^{12}, \frac{1}{39}\sqrt{6}e^{13}, \frac{1}{39}\sqrt{14}e^{24}, \frac{2}{39}\sqrt{7}e^{35}$	$(-\frac{2}{39}, \frac{1}{13}, \frac{2}{39}, -\frac{4}{39}, 0, \frac{1}{39}, 0, -\frac{1}{39}, \frac{2}{39})$ $+\frac{1}{39}\sqrt{22}e^5 \otimes e_8 + \frac{1}{39}\sqrt{30}e^2 \otimes e_9 + \frac{2}{39}\sqrt{5}e^3 \otimes e_6$	{123457, 1569, 2678, 3489}
94:8	$0, 0, 0, 0, 0, \frac{12}{551}\sqrt{2082}e^{12}, \frac{2}{551}\sqrt{19779}e^{13}, \frac{4}{551}\sqrt{3470}e^{24}, \frac{2}{551}\sqrt{17697}e^{35}$	$(-\frac{63}{551}, \frac{375}{551}, \frac{102}{551}, -\frac{11}{19}, \frac{45}{551}, \frac{312}{551}, \frac{39}{551}, \frac{56}{551}, \frac{147}{551})$ $+\frac{2}{551}\sqrt{157885}e^2 \otimes e_4$	{12, 12357, 12379, 1259, 134567, 134679, 14569, 146, 2356, 2369, 25679, 267, 345, 349, 4579, 47}
94:8	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{4}{39}\sqrt{10}e^{13}, \frac{20}{39}e^{24}, \frac{4}{39}\sqrt{11}e^{35}$	$(-\frac{2}{39}, \frac{8}{39}, -\frac{2}{13}, \frac{3}{13}, -\frac{1}{39}, \frac{2}{13}, -\frac{8}{39}, \frac{17}{39}, -\frac{7}{39})$ $+\frac{4}{39}\sqrt{34}e^4 \otimes e_9 + \frac{4}{39}\sqrt{35}e^2 \otimes e_7$	{12345, 12389, 14678, 15679, 246, 25689, 34578, 379}
94:8	$0, 0, 0, 0, 0, \frac{12}{59}e^{12}, \frac{6}{59}\sqrt{7}e^{13}, \frac{3}{59}\sqrt{10}e^{24}, \frac{9}{59}\sqrt{2}e^{35}$	$(\frac{1}{59}, -\frac{8}{59}, \frac{2}{59}, 0, \frac{12}{59}, -\frac{7}{59}, \frac{3}{59}, -\frac{8}{59}, \frac{14}{59})$ $+\frac{12}{59}\sqrt{2}e^5 \otimes e_7 + \frac{18}{59}e^1 \otimes e_8 + \frac{6}{59}\sqrt{10}e^3 \otimes e_6$	{12345, 167, 25689, 34789}
94:8	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{335}e^{12}, \frac{2}{73}\sqrt{737}e^{13}, \frac{1}{73}\sqrt{2814}e^{24}, \frac{1}{73}\sqrt{402}e^{35}$	$(\frac{41}{73}, -\frac{18}{73}, -\frac{6}{73}, -\frac{8}{73}, \frac{16}{73}, \frac{23}{73}, \frac{35}{73}, -\frac{26}{73}, \frac{10}{73})$ $+\frac{2}{73}\sqrt{2010}e^1 \otimes e_8$	{1234, 123459, 12457, 12479, 13569, 136, 1567, 1679, 2356789, 23678, 2568, 2689, 345789, 3478, 458, 489}
94:8	$0, 0, 0, 0, 0, \frac{20}{369}\sqrt{70}e^{12}, \frac{10}{369}\sqrt{165}e^{13}, \frac{20}{369}\sqrt{5}e^{24}, \frac{10}{369}\sqrt{305}e^{35}$	$(-\frac{5}{41}, \frac{145}{369}, -\frac{50}{369}, -\frac{35}{123}, \frac{155}{369}, \frac{100}{369}, -\frac{95}{369}, \frac{40}{369}, \frac{35}{123})$ $+\frac{10}{123}\sqrt{85}e^2 \otimes e_4 + \frac{20}{369}\sqrt{215}e^5 \otimes e_7$	{1235, 127, 13456, 1467, 23679, 2569, 3479, 459}
94:8	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{70}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{5}{79}\sqrt{42}e^{24}, \frac{2}{79}\sqrt{105}e^{35}$	$(\frac{17}{79}, -\frac{7}{79}, -\frac{21}{79}, \frac{31}{79}, \frac{3}{79}, \frac{10}{79}, -\frac{4}{79}, \frac{24}{79}, -\frac{18}{79})$ $+\frac{1}{79}\sqrt{2310}e^1 \otimes e_9 + \frac{1}{79}\sqrt{2590}e^4 \otimes e_7$	{12345, 1278, 134568, 167, 236789, 24569, 379, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:8	$0, 0, 0, 0, 0, \frac{1}{122}\sqrt{65}e^{12}, \frac{1}{122}\sqrt{78}e^{13}, \frac{1}{122}\sqrt{1079}e^{24}, \frac{1}{122}\sqrt{793}e^{35}$	$(\frac{9}{122}, -\frac{1}{61}, -\frac{12}{61}, \frac{21}{244}, \frac{43}{244}, \frac{7}{122}, -\frac{15}{122}, \frac{17}{244}, -\frac{5}{244})$ $+\frac{1}{122}\sqrt{1105}e^4 \otimes e_9 + \frac{1}{122}\sqrt{1105}e^5 \otimes e_8 + \frac{1}{122}\sqrt{715}e^2 \otimes e_7$	{123456, 123689, 1478, 1579}
94:8	$0, 0, 0, 0, 0, \frac{6}{455}\sqrt{58}e^{12}, \frac{6}{455}\sqrt{26}e^{13}, \frac{24}{455}\sqrt{2}e^{24}, \frac{3}{35}\sqrt{2}e^{35}$	$(-\frac{6}{91}, \frac{33}{455}, \frac{12}{455}, -\frac{6}{91}, \frac{12}{455}, \frac{3}{455}, -\frac{18}{455}, \frac{3}{455}, \frac{24}{455})$ $+\frac{3}{455}\sqrt{190}e^3 \otimes e_8 + \frac{3}{455}\sqrt{358}e^2 \otimes e_9 + \frac{3}{65}\sqrt{6}e^5 \otimes e_6$	{123457, 13679, 2678, 45789}
94:8	$0, 0, 0, 0, 0, \frac{8}{4689}\sqrt{17255}e^{12}, \frac{2}{4689}\sqrt{69890}e^{13}, \frac{2}{4689}\sqrt{78445}e^{24}, \frac{2}{4689}\sqrt{196910}e^{35}$	$(\frac{394}{4689}, \frac{5}{1563}, -\frac{595}{4689}, -\frac{275}{4689}, \frac{233}{1563}, \frac{409}{4689}, -\frac{67}{1563}, -\frac{260}{4689}, \frac{104}{4689})$ $+\frac{10}{4689}\sqrt{8903}e^1 \otimes e_9 + \frac{2}{4689}\sqrt{159065}e^2 \otimes e_4 + \frac{8}{4689}\sqrt{16095}e^5 \otimes e_6$	{12357, 146, 2369, 4579}
94:8	$0, 0, 0, 0, 0, \frac{14}{1849}\sqrt{530}e^{12}, \frac{22}{1849}\sqrt{1113}e^{13}, \frac{1}{1849}\sqrt{491946}e^{24}, \frac{21}{1849}\sqrt{318}e^{35}$	$(\frac{383}{1849}, -\frac{364}{1849}, -\frac{378}{1849}, \frac{376}{1849}, \frac{348}{1849}, \frac{19}{1849}, \frac{5}{1849}, \frac{12}{1849}, -\frac{30}{1849})$ $+\frac{18}{1849}\sqrt{1855}e^1 \otimes e_8 + \frac{4}{1849}\sqrt{40810}e^4 \otimes e_7$	{1234569, 12346, 157, 179, 235789, 2378, 4568, 4689}
94:8	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{4}{39}\sqrt{10}e^{13}, \frac{20}{39}e^{24}, \frac{4}{39}\sqrt{11}e^{35}$	$(-\frac{2}{39}, \frac{8}{39}, -\frac{2}{13}, -\frac{8}{39}, \frac{16}{39}, \frac{2}{39}, -\frac{8}{39}, 0, \frac{10}{39})$ $+\frac{4}{39}\sqrt{34}e^5 \otimes e_8 + \frac{4}{39}\sqrt{35}e^2 \otimes e_7$	{12345, 12389, 14678, 15679, 24569, 268, 34789, 357}
94:8	$0, 0, 0, 0, 0, \frac{2}{1913}\sqrt{133045}e^{12}, \frac{2}{1913}\sqrt{67199}e^{13}, \frac{21}{1913}\sqrt{902}e^{24}, \frac{14}{1913}\sqrt{2255}e^{35}$	$(-\frac{106}{1913}, \frac{141}{1913}, -\frac{6}{1913}, \frac{486}{1913}, -\frac{304}{1913}, \frac{35}{1913}, -\frac{112}{1913}, \frac{627}{1913}, -\frac{310}{1913})$ $+\frac{1}{1913}\sqrt{668382}e^4 \otimes e_6 + \frac{2}{1913}\sqrt{222343}e^2 \otimes e_9$	{123457, 124, 13679, 1569, 23568, 2678, 3489, 45789}
94:8	$0, 0, 0, 0, 0, \frac{12}{935}\sqrt{403}e^{12}, \frac{2}{935}\sqrt{8931}e^{13}, \frac{24}{935}\sqrt{13}e^{24}, \frac{4}{935}\sqrt{3783}e^{35}$	$(-\frac{14}{187}, \frac{96}{935}, -\frac{86}{935}, \frac{5}{187}, \frac{104}{935}, \frac{26}{935}, -\frac{156}{935}, \frac{11}{85}, \frac{18}{935})$ $+\frac{2}{935}\sqrt{16341}e^5 \otimes e_6 + \frac{2}{935}\sqrt{17277}e^2 \otimes e_9$	{123457, 123578, 1346789, 13679, 2467, 2678, 45789, 579}
94:8	$0, 0, 0, 0, 0, \frac{2}{1011}\sqrt{10902}e^{12}, \frac{4}{1011}\sqrt{1495}e^{13}, \frac{2}{1011}\sqrt{27370}e^{24}, \frac{2}{1011}\sqrt{9614}e^{35}$	$(-\frac{98}{1011}, \frac{2}{1011}, -\frac{28}{337}, \frac{88}{1011}, \frac{274}{1011}, -\frac{32}{337}, -\frac{182}{1011}, \frac{30}{337}, \frac{190}{1011})$ $+\frac{2}{1011}\sqrt{30590}e^2 \otimes e_7 + \frac{40}{1011}\sqrt{69}e^4 \otimes e_6 + \frac{4}{1011}\sqrt{6739}e^5 \otimes e_8$	{12345, 15679, 268, 34789}
94:8	$0, 0, 0, 0, 0, \frac{2}{215}\sqrt{1463}e^{12}, \frac{2}{215}\sqrt{1463}e^{13}, \frac{1}{215}\sqrt{8778}e^{24}, \frac{1}{215}\sqrt{8778}e^{35}$	$(-\frac{17}{215}, -\frac{28}{215}, -\frac{28}{215}, \frac{88}{215}, \frac{88}{215}, -\frac{9}{43}, -\frac{9}{43}, \frac{12}{43}, \frac{12}{43})$ $+\frac{2}{215}\sqrt{6251}e^4 \otimes e_7 + \frac{2}{215}\sqrt{6251}e^5 \otimes e_6$	{12345, 125789, 167, 236789, 246, 4589}
94:8	$0, 0, 0, 0, 0, \frac{1}{141}\sqrt{2418}e^{12}, \frac{1}{141}\sqrt{39}e^{13}, \frac{1}{47}\sqrt{65}e^{24}, \frac{1}{141}\sqrt{2769}e^{35}$	$(\frac{23}{94}, \frac{3}{47}, -\frac{15}{94}, -\frac{10}{47}, \frac{6}{47}, \frac{29}{94}, \frac{4}{47}, -\frac{7}{47}, -\frac{3}{94})$ $+\frac{1}{141}\sqrt{2730}e^2 \otimes e_4 + \frac{1}{141}\sqrt{3198}e^5 \otimes e_8 + \frac{1}{47}\sqrt{455}e^1 \otimes e_9$	{128, 1468, 23689, 3489}
94:8	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{6}e^{13}, \frac{2}{11}\sqrt{2}e^{24}, \frac{2}{11}\sqrt{2}e^{35}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, 0, \frac{3}{11})$ $+\frac{1}{11}\sqrt{14}e^2 \otimes e_7 - \frac{1}{11}\sqrt{14}e^3 \otimes e_6 + \frac{2}{11}\sqrt{3}e^5 \otimes e_8$	{12345, 12389, 14678, 15679, 24569, 268, 34789, 357}
94:8	$0, 0, 0, 0, 0, \frac{14}{529}\sqrt{65}e^{12}, \frac{2}{529}\sqrt{7553}e^{13}, \frac{3}{529}\sqrt{3094}e^{24}, \frac{13}{529}\sqrt{42}e^{35}$	$(\frac{53}{529}, \frac{66}{529}, -\frac{78}{529}, -\frac{104}{529}, \frac{88}{529}, \frac{119}{529}, -\frac{25}{529}, -\frac{38}{529}, \frac{10}{529})$ $+\frac{4}{529}\sqrt{2730}e^1 \otimes e_8 + \frac{4}{529}\sqrt{2730}e^2 \otimes e_7$	{1234, 123459, 1567, 1679, 2568, 2689, 345789, 3478}
94:8	$0, 0, 0, 0, 0, \frac{20}{3493}\sqrt{2714}e^{12}, \frac{10}{3493}\sqrt{15203}e^{13}, \frac{10}{3493}\sqrt{9131}e^{24}, \frac{10}{3493}\sqrt{5221}e^{35}$	$(\frac{530}{3493}, \frac{265}{3493}, -\frac{565}{3493}, -\frac{885}{3493}, \frac{1115}{3493}, \frac{795}{3493}, -\frac{5}{499}, -\frac{620}{3493}, \frac{550}{3493})$ $+\frac{10}{3493}\sqrt{18653}e^2 \otimes e_4 + \frac{10}{3493}\sqrt{23437}e^5 \otimes e_7 + \frac{20}{3493}\sqrt{7705}e^1 \otimes e_8$	{236789, 25689, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{18}{197}\sqrt{5}e^{12}, \frac{6}{197}\sqrt{17}e^{13}, \frac{12}{197}e^{24}, \frac{12}{197}\sqrt{15}e^{35}$	$(\frac{24}{197}, -\frac{33}{197}, \frac{9}{197}, \frac{12}{197}, -\frac{3}{197}, -\frac{9}{197}, \frac{33}{197}, -\frac{21}{197}, \frac{6}{197})$ $+\frac{6}{197}\sqrt{41}e^5 \otimes e_8 + \frac{6}{197}\sqrt{70}e^1 \otimes e_9 + \frac{6}{197}\sqrt{70}e^3 \otimes e_6$	{12345, 14678, 24569, 34789}
94:8	$0, 0, 0, 0, 0, \frac{57}{473}\sqrt{10}e^{12}, \frac{6}{473}\sqrt{589}e^{13}, \frac{18}{473}\sqrt{133}e^{24}, \frac{6}{473}\sqrt{38}e^{35}$	$(\frac{120}{473}, -\frac{171}{473}, -\frac{8}{473}, \frac{120}{473}, \frac{54}{473}, -\frac{51}{473}, \frac{112}{473}, -\frac{51}{473}, \frac{46}{473})$ $+\frac{3}{473}\sqrt{8626}e^1 \otimes e_8 + \frac{42}{473}\sqrt{38}e^4 \otimes e_6$	{1234, 123459, 12457, 12479, 13569, 136, 1567, 1679, 2356789, 23678, 2568, 2689, 345789, 3478, 458, 489}
94:8	$0, 0, 0, 0, 0, \frac{1}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{6}e^{13}, \frac{2}{11}\sqrt{2}e^{24}, \frac{2}{11}\sqrt{2}e^{35}$	$(\frac{3}{22}, \frac{1}{11}, -\frac{5}{22}, -\frac{1}{11}, \frac{2}{11}, \frac{5}{22}, -\frac{1}{11}, 0, -\frac{1}{22})$ $+\frac{1}{11}\sqrt{14}e^1 \otimes e_9 + \frac{1}{11}\sqrt{14}e^2 \otimes e_7 + \frac{2}{11}\sqrt{3}e^5 \otimes e_8$	{12345, 14678, 24569, 34789}
94:8	$0, 0, 0, 0, 0, \frac{2}{73}\sqrt{335}e^{12}, \frac{2}{73}\sqrt{737}e^{13}, \frac{1}{73}\sqrt{2814}e^{24}, \frac{1}{73}\sqrt{402}e^{35}$	$(-\frac{19}{73}, \frac{42}{73}, -\frac{6}{73}, -\frac{8}{73}, \frac{16}{73}, \frac{23}{73}, -\frac{25}{73}, \frac{34}{73}, \frac{10}{73})$ $+\frac{2}{73}\sqrt{2010}e^2 \otimes e_7$	{1234, 123459, 123589, 1238, 145678, 146789, 1567, 1679, 2456, 2469, 2568, 2689, 345789, 3478, 3579, 37}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:8	$0, 0, 0, 0, 0, \frac{1}{93}\sqrt{1482}e^{12}, \frac{4}{93}\sqrt{57}e^{13}, \frac{1}{31}\sqrt{190}e^{24}, \frac{2}{93}\sqrt{627}e^{35}$	$(\frac{2}{31}, \frac{6}{31}, -\frac{1}{31}, -\frac{13}{31}, \frac{12}{31}, \frac{8}{31}, \frac{1}{31}, -\frac{7}{31}, \frac{11}{31})$ $+\frac{1}{93}\sqrt{3990}e^2 \otimes e_4 + \frac{1}{93}\sqrt{5358}e^5 \otimes e_8$	{123789, 128, 1346789, 1468, 23689, 2678, 3489, 478}
94:8	$0, 0, 0, 0, 0, \frac{1}{144}\sqrt{12558}e^{12}, \frac{1}{36}\sqrt{161}e^{13}, \frac{7}{144}\sqrt{230}e^{24}, \frac{23}{144}\sqrt{7}e^{35}$	$(-\frac{1}{32}, -\frac{95}{288}, \frac{23}{144}, \frac{109}{144}, \frac{5}{48}, -\frac{13}{36}, \frac{37}{288}, \frac{41}{96}, \frac{19}{72})$ $+\frac{1}{144}\sqrt{37835}e^4 \otimes e_6$	{123457, 123479, 124, 12459, 13567, 13679, 1569, 16, 23568, 23689, 256789, 2678, 3458, 3489, 45789, 478}
94:8	$0, 0, 0, 0, 0, \frac{56}{225}\sqrt{5}e^{12}, \frac{28}{225}e^{13}, \frac{14}{225}\sqrt{19}e^{24}, \frac{28}{225}\sqrt{11}e^{35}$	$(\frac{52}{225}, \frac{17}{75}, -\frac{1}{9}, -\frac{47}{225}, -\frac{7}{75}, \frac{103}{225}, \frac{3}{25}, \frac{4}{225}, -\frac{46}{225})$ $+\frac{14}{225}\sqrt{113}e^1 \otimes e_9 + \frac{14}{225}\sqrt{89}e^2 \otimes e_4$	{1235, 127, 13456, 1467, 23679, 2569, 3479, 459}
94:8	$0, 0, 0, 0, 0, \frac{4}{1231}\sqrt{6430}e^{12}, \frac{8}{1231}\sqrt{1155}e^{13}, \frac{40}{1231}\sqrt{3}e^{24}, \frac{4}{1231}\sqrt{6330}e^{35}$	$(-\frac{85}{1231}, \frac{146}{1231}, -\frac{75}{1231}, -\frac{80}{1231}, \frac{141}{1231}, \frac{61}{1231}, -\frac{160}{1231}, \frac{66}{1231}, \frac{66}{1231})$ $+\frac{4}{1231}\sqrt{6630}e^2 \otimes e_9 + \frac{8}{1231}\sqrt{1695}e^5 \otimes e_6 + \frac{8}{1231}\sqrt{515}e^4 \otimes e_7$	{1234578, 134679, 24678, 4579}
94:8	$0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{9730}e^{12}, \frac{4}{2071}\sqrt{10010}e^{13}, \frac{4}{2071}\sqrt{2870}e^{24}, \frac{16}{2071}\sqrt{2415}e^{35}$	$(-\frac{239}{2071}, \frac{135}{2071}, \frac{270}{2071}, -\frac{425}{2071}, \frac{24}{109}, -\frac{104}{2071}, \frac{31}{2071}, -\frac{290}{2071}, \frac{726}{2071})$ $+\frac{20}{2071}\sqrt{1414}e^3 \otimes e_8 + \frac{24}{2071}\sqrt{1085}e^2 \otimes e_4 + \frac{8}{2071}\sqrt{14595}e^5 \otimes e_6$	{12589, 1468, 2678, 45789}
94:8	$0, 0, 0, 0, 0, \frac{1}{355}\sqrt{6486}e^{12}, \frac{1}{355}\sqrt{6862}e^{13}, \frac{1}{71}\sqrt{282}e^{24}, \frac{2}{355}\sqrt{141}e^{35}$	$(\frac{4}{71}, \frac{18}{355}, -\frac{49}{355}, -\frac{9}{71}, \frac{17}{71}, \frac{38}{355}, -\frac{29}{355}, -\frac{27}{355}, \frac{36}{355})$ $+\frac{1}{355}\sqrt{5734}e^5 \otimes e_6 + \frac{2}{355}\sqrt{3102}e^1 \otimes e_8 + \frac{2}{355}\sqrt{3102}e^2 \otimes e_7$	{12345, 167, 268, 34578}
94:8	$0, 0, 0, 0, 0, \frac{57}{473}\sqrt{10}e^{12}, \frac{6}{473}\sqrt{589}e^{13}, \frac{18}{473}\sqrt{133}e^{24}, \frac{6}{473}\sqrt{38}e^{35}$	$(-\frac{107}{473}, \frac{56}{473}, -\frac{8}{473}, \frac{120}{473}, \frac{54}{473}, -\frac{51}{473}, -\frac{115}{473}, \frac{16}{43}, \frac{46}{473})$ $+\frac{3}{473}\sqrt{8626}e^2 \otimes e_7 + \frac{42}{473}\sqrt{38}e^4 \otimes e_6$	{1234, 123459, 1567, 1679, 2568, 2689, 345789, 3478}
94:8	$0, 0, 0, 0, 0, \frac{6}{1697}\sqrt{20833}e^{12}, \frac{24}{1697}\sqrt{166}e^{13}, \frac{3}{1697}\sqrt{21082}e^{24}, \frac{9}{1697}\sqrt{5810}e^{35}$	$(\frac{443}{1697}, -\frac{434}{1697}, -\frac{184}{1697}, \frac{756}{1697}, -\frac{120}{1697}, \frac{9}{1697}, \frac{259}{1697}, \frac{322}{1697}, -\frac{304}{1697})$ $+\frac{12}{1697}\sqrt{7138}e^4 \otimes e_6 + \frac{6}{1697}\sqrt{33781}e^1 \otimes e_9$	{12345, 1247, 1356, 167, 236789, 25689, 34789, 4589}
94:8	$0, 0, 0, 0, 0, \frac{4}{1521}\sqrt{18445}e^{12}, \frac{2}{1521}\sqrt{3570}e^{13}, \frac{22}{1521}\sqrt{595}e^{24}, \frac{7}{1521}\sqrt{12410}e^{35}$	$(-\frac{20}{507}, \frac{484}{1521}, -\frac{323}{1521}, -\frac{22}{507}, \frac{212}{1521}, \frac{424}{1521}, -\frac{383}{1521}, \frac{418}{1521}, -\frac{37}{507})$ $+\frac{14}{1521}\sqrt{4845}e^2 \otimes e_9 + \frac{1}{1521}\sqrt{650930}e^5 \otimes e_7$	{1346789, 13679, 145689, 1569, 23456, 23568, 2467, 2678}
94:8	$0, 0, 0, 0, 0, \frac{2}{557}\sqrt{754}e^{12}, \frac{2}{557}\sqrt{145}e^{13}, \frac{2}{557}\sqrt{5133}e^{24}, \frac{2}{557}\sqrt{4321}e^{35}$	$(\frac{24}{557}, \frac{47}{557}, -\frac{99}{557}, -\frac{17}{557}, \frac{88}{557}, \frac{71}{557}, -\frac{75}{557}, \frac{30}{557}, -\frac{11}{557})$ $+\frac{16}{557}\sqrt{87}e^5 \otimes e_8 + \frac{2}{557}\sqrt{3335}e^4 \otimes e_7 + \frac{2}{557}\sqrt{5945}e^2 \otimes e_9$	{23456, 2678, 3489, 579}
94:8	$0, 0, 0, 0, 0, \frac{1}{303}\sqrt{10914}e^{12}, \frac{1}{303}\sqrt{13910}e^{13}, \frac{2}{303}\sqrt{6313}e^{24}, \frac{1}{303}\sqrt{6634}e^{35}$	$(\frac{16}{303}, -\frac{37}{303}, -\frac{22}{101}, \frac{19}{101}, \frac{127}{303}, -\frac{7}{101}, -\frac{50}{303}, \frac{20}{303}, \frac{61}{303})$ $+\frac{16}{303}\sqrt{107}e^5 \otimes e_8 + \frac{1}{303}\sqrt{31030}e^4 \otimes e_7$	{123456, 12678, 13489, 1579, 23789, 2459, 3567, 468}
94:9	$0, 0, 0, 0, 0, \frac{6}{329}\sqrt{1961}e^{12}, \frac{3}{329}\sqrt{8806}e^{13}, \frac{3}{329}\sqrt{4958}e^{23}, \frac{3}{329}\sqrt{4958}e^{14} + \frac{6}{329}\sqrt{481}e^{25}$	$(\frac{171}{329}, -\frac{15}{329}, -\frac{2}{329}, -\frac{162}{329}, \frac{24}{329}, \frac{156}{329}, \frac{169}{329}, -\frac{17}{329}, \frac{9}{329})$ $+\frac{9}{329}\sqrt{2294}e^1 \otimes e_4$	{12358, 1257, 136, 1678, 2345678, 2456, 347, 48}
94:9	$0, 0, 0, 0, 0, \frac{1}{131}\sqrt{2310}e^{12}, \frac{1}{131}\sqrt{4242}e^{13}, \frac{2}{131}\sqrt{105}e^{23}, \frac{21}{131}\sqrt{6}e^{14} + \frac{2}{131}\sqrt{966}e^{25}$	$(\frac{53}{131}, -\frac{49}{262}, -\frac{13}{131}, -\frac{31}{131}, \frac{93}{262}, \frac{57}{262}, \frac{40}{131}, -\frac{75}{262}, \frac{22}{131})$ $+\frac{3}{131}\sqrt{1022}e^5 \otimes e_8 + \frac{6}{131}\sqrt{287}e^1 \otimes e_4$	{1235, 1368, 234567, 3478}
94:9	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{119}e^{12}, \frac{1}{67}\sqrt{518}e^{13}, \frac{2}{67}\sqrt{70}e^{23}, \frac{1}{67}\sqrt{518}e^{14} + \frac{2}{67}\sqrt{70}e^{25}$	$(-\frac{14}{67}, \frac{3}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{4}{67}, -\frac{11}{67}, -\frac{1}{67}, \frac{16}{67}, -\frac{1}{67})$ $+\frac{1}{67}\sqrt{714}e^4 \otimes e_7 + \frac{1}{67}\sqrt{994}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 2357, 2489, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{119}e^{12}, \frac{1}{67}\sqrt{518}e^{13}, \frac{2}{67}\sqrt{70}e^{23}, \frac{1}{67}\sqrt{518}e^{14} + \frac{2}{67}\sqrt{70}e^{25}$	$(-\frac{14}{67}, \frac{3}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{4}{67}, -\frac{11}{67}, -\frac{1}{67}, \frac{16}{67}, -\frac{1}{67})$ $-\frac{1}{67}\sqrt{714}e^4 \otimes e_7 + \frac{1}{67}\sqrt{994}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 2357, 2489, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{4}{325}\sqrt{651}e^{12}, \frac{1}{325}\sqrt{11811}e^{13}, \frac{1}{325}\sqrt{11811}e^{23}, \frac{3}{325}\sqrt{310}e^{14} + \frac{3}{325}\sqrt{310}e^{25}$	$(\frac{9}{65}, \frac{9}{65}, -\frac{93}{325}, \frac{19}{325}, \frac{19}{325}, \frac{18}{65}, -\frac{48}{325}, -\frac{48}{325}, \frac{64}{325})$ $+\frac{3}{325}\sqrt{3007}e^1 \otimes e_8 + \frac{3}{325}\sqrt{3007}e^2 \otimes e_7$	{12345, 1239, 1467, 15679, 345789, 378}
94:9	$0, 0, 0, 0, 0, \frac{4}{325}\sqrt{651}e^{12}, \frac{1}{325}\sqrt{11811}e^{13}, \frac{1}{325}\sqrt{11811}e^{23}, \frac{3}{325}\sqrt{310}e^{14} + \frac{3}{325}\sqrt{310}e^{25}$	$(\frac{9}{65}, \frac{9}{65}, -\frac{93}{325}, \frac{19}{325}, \frac{19}{325}, \frac{18}{65}, -\frac{48}{325}, -\frac{48}{325}, \frac{64}{325})$ $+\frac{3}{325}\sqrt{3007}e^1 \otimes e_8 - \frac{3}{325}\sqrt{3007}e^2 \otimes e_7$	{12345, 1239, 1467, 15679, 345789, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:9	$0, 0, 0, 0, 0, \frac{4}{67}\sqrt{69}e^{12}, \frac{12}{67}\sqrt{5}e^{13}, \frac{16}{67}\sqrt{3}e^{23},$ $\frac{16}{67}\sqrt{3}e^{14} + \frac{12}{67}\sqrt{5}e^{25}$	$(\frac{14}{67}, -\frac{17}{67}, \frac{6}{67}, -\frac{10}{67}, \frac{21}{67}, -\frac{3}{67}, \frac{20}{67}, -\frac{11}{67}, \frac{4}{67})$ $+ \frac{4}{67}\sqrt{93}e^1 \otimes e_4 + \frac{4}{67}\sqrt{93}e^5 \otimes e_6$	{12358, 1257, 136, 1678}
94:9	$0, 0, 0, 0, 0, \frac{11}{637}\sqrt{610}e^{12}, \frac{44}{637}\sqrt{37}e^{13}, \frac{22}{637}\sqrt{157}e^{23},$ $\frac{22}{637}\sqrt{231}e^{14} + \frac{11}{637}\sqrt{894}e^{25}$	$(\frac{33}{637}, -\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, \frac{66}{637}, -\frac{88}{637}, \frac{66}{637})$ $+ \frac{11}{637}\sqrt{622}e^5 \otimes e_7 + \frac{11}{637}\sqrt{906}e^1 \otimes e_8 + \frac{22}{637}\sqrt{222}e^4 \otimes e_6$	{169, 3489}
94:9	$0, 0, 0, 0, 0, \frac{2}{233}\sqrt{410}e^{12}, \frac{10}{233}\sqrt{30}e^{13}, \frac{2}{233}\sqrt{1410}e^{23},$ $\frac{2}{233}\sqrt{1410}e^{14} + \frac{6}{233}\sqrt{10}e^{25}$	$(\frac{34}{233}, -\frac{32}{233}, \frac{26}{233}, -\frac{48}{233}, \frac{18}{233}, \frac{2}{233}, \frac{60}{233}, -\frac{6}{233}, -\frac{14}{233})$ $+ \frac{12}{233}\sqrt{55}e^1 \otimes e_8 + \frac{2}{233}\sqrt{2230}e^3 \otimes e_9$	{123456, 1579, 2489, 3678}
94:9	$0, 0, 0, 0, 0, \frac{5}{19}e^{12}, \frac{3}{19}\sqrt{5}e^{13}, \frac{1}{19}\sqrt{15}e^{23},$ $\frac{1}{19}\sqrt{15}e^{14} + \frac{3}{19}\sqrt{5}e^{25}$	$(\frac{2}{19}, -\frac{4}{19}, \frac{4}{19}, -\frac{3}{19}, \frac{3}{19}, -\frac{2}{19}, \frac{6}{19}, 0, -\frac{1}{19})$ $+ \frac{1}{19}\sqrt{55}e^3 \otimes e_9 + \frac{2}{19}\sqrt{15}e^1 \otimes e_4 + \frac{2}{19}\sqrt{15}e^5 \otimes e_6$	{12358, 136}
94:9	$0, 0, 0, 0, 0, \frac{10}{119}e^{12}, \frac{10}{119}\sqrt{6}e^{13}, \frac{2}{119}\sqrt{30}e^{23},$ $\frac{6}{119}\sqrt{5}e^{14} + \frac{2}{119}\sqrt{195}e^{25}$	$(-\frac{1}{7}, \frac{4}{119}, \frac{11}{119}, \frac{18}{119}, -\frac{3}{119}, -\frac{13}{119}, -\frac{6}{119}, \frac{15}{119}, \frac{1}{119})$ $+ \frac{2}{119}\sqrt{190}e^3 \otimes e_9 + \frac{30}{119}e^2 \otimes e_7 + \frac{6}{119}\sqrt{15}e^5 \otimes e_6$	{1235, 2689}
94:9	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{14}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{2}{79}\sqrt{105}e^{23},$ $\frac{2}{79}\sqrt{105}e^{14} + \frac{5}{79}\sqrt{42}e^{25}$	$(\frac{11}{79}, -\frac{7}{79}, \frac{22}{79}, -\frac{24}{79}, -\frac{6}{79}, \frac{4}{79}, \frac{33}{79}, \frac{15}{79}, -\frac{13}{79})$ $+ \frac{1}{79}\sqrt{3010}e^3 \otimes e_9 + \frac{3}{79}\sqrt{210}e^1 \otimes e_4$	{126789, 1579, 2489, 4569}
94:9	$0, 0, 0, 0, 0, \frac{11}{637}\sqrt{166}e^{12}, \frac{22}{637}\sqrt{74}e^{13}, \frac{22}{637}\sqrt{46}e^{23},$ $\frac{66}{637}e^{14} + \frac{11}{637}\sqrt{6}e^{25}$	$(\frac{33}{637}, -\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, \frac{66}{637}, -\frac{88}{637}, \frac{66}{637})$ $+ \frac{11}{637}\sqrt{266}e^5 \otimes e_7 + \frac{11}{637}\sqrt{462}e^1 \otimes e_8 - \frac{22}{637}\sqrt{111}e^3 \otimes e_6$	{12359, 1679, 245689, 34789}
94:9	$0, 0, 0, 0, 0, \frac{1}{431}\sqrt{3382}e^{12}, \frac{2}{431}\sqrt{9879}e^{13}, \frac{1}{431}\sqrt{22606}e^{23},$ $\frac{1}{431}\sqrt{22606}e^{14} + \frac{1}{431}\sqrt{29726}e^{25}$	$(\frac{78}{431}, -\frac{32}{431}, -\frac{68}{431}, -\frac{11}{431}, \frac{99}{431}, \frac{46}{431}, \frac{10}{431}, -\frac{100}{431}, \frac{67}{431})$ $+ \frac{1}{431}\sqrt{29370}e^1 \otimes e_4 + \frac{1}{431}\sqrt{42542}e^5 \otimes e_7$	{12358, 1678, 2456, 347}
94:9	$0, 0, 0, 0, 0, \frac{1}{119}\sqrt{246}e^{12}, \frac{1}{119}\sqrt{498}e^{13}, \frac{3}{119}\sqrt{10}e^{23},$ $\frac{3}{119}\sqrt{10}e^{14} + \frac{3}{119}\sqrt{46}e^{25}$	$(\frac{119}{119}, -\frac{13}{119}, \frac{8}{119}, \frac{1}{119}, \frac{15}{119}, -\frac{12}{119}, \frac{9}{119}, -\frac{5}{119}, \frac{2}{119})$ $+ \frac{1}{119}\sqrt{582}e^3 \otimes e_9 + \frac{2}{119}\sqrt{123}e^5 \otimes e_7 + \frac{6}{119}\sqrt{7}e^1 \otimes e_8$	{123456, 3678}
94:9	$0, 0, 0, 0, 0, \frac{32}{277}\sqrt{5}e^{12}, \frac{8}{277}\sqrt{595}e^{13}, \frac{64}{277}\sqrt{5}e^{23},$ $\frac{32}{277}\sqrt{15}e^{14} + \frac{8}{277}\sqrt{595}e^{25}$	$(-\frac{25}{277}, -\frac{9}{277}, -\frac{25}{277}, \frac{126}{277}, \frac{110}{277}, -\frac{34}{277}, -\frac{50}{277}, -\frac{34}{277}, \frac{101}{277})$ $+ \frac{32}{277}\sqrt{15}e^4 \otimes e_6 + \frac{8}{277}\sqrt{995}e^5 \otimes e_7$	{123568, 13459, 245, 5689}
94:9	$0, 0, 0, 0, 0, \frac{16}{53}\sqrt{2}e^{12}, \frac{4}{53}\sqrt{30}e^{13}, \frac{4}{53}\sqrt{30}e^{23},$ $\frac{4}{53}\sqrt{30}e^{14} + \frac{4}{53}\sqrt{30}e^{25}$	$(-\frac{1}{53}, -\frac{1}{53}, -\frac{9}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{2}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{21}{53})$ $+ \frac{4}{53}\sqrt{94}e^4 \otimes e_7 + \frac{4}{53}\sqrt{94}e^5 \otimes e_8$	{123456, 126789, 1348, 1579, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{16}{53}\sqrt{2}e^{12}, \frac{4}{53}\sqrt{30}e^{13}, \frac{4}{53}\sqrt{30}e^{23},$ $\frac{4}{53}\sqrt{30}e^{14} + \frac{4}{53}\sqrt{30}e^{25}$	$(-\frac{1}{53}, -\frac{1}{53}, -\frac{9}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{2}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{21}{53})$ $+ \frac{4}{53}\sqrt{94}e^4 \otimes e_7 - \frac{4}{53}\sqrt{94}e^5 \otimes e_8$	{123456, 126789, 1348, 1579, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{19}{1313}\sqrt{541}e^{12}, \frac{19}{1313}\sqrt{601}e^{13}, \frac{228}{1313}e^{23},$ $\frac{19}{1313}\sqrt{355}e^{14} + \frac{38}{1313}\sqrt{30}e^{25}$	$(\frac{171}{1313}, -\frac{304}{1313}, \frac{228}{1313}, -\frac{190}{1313}, \frac{285}{1313}, -\frac{133}{1313}, \frac{399}{1313}, -\frac{76}{1313}, -\frac{19}{1313})$ $+ \frac{19}{1313}\sqrt{493}e^5 \otimes e_8 + \frac{38}{1313}\sqrt{233}e^1 \otimes e_4 + \frac{38}{1313}\sqrt{251}e^3 \otimes e_6$	{1235, 3478}
94:9	$0, 0, 0, 0, 0, \frac{2}{343}\sqrt{1770}e^{12}, \frac{1}{343}\sqrt{30090}e^{13}, \frac{6}{343}\sqrt{354}e^{23},$ $\frac{8}{343}\sqrt{177}e^{14} + \frac{1}{343}\sqrt{6018}e^{25}$	$(-\frac{100}{343}, -\frac{2}{343}, \frac{75}{343}, \frac{152}{343}, \frac{54}{343}, -\frac{102}{343}, -\frac{25}{343}, \frac{73}{343}, \frac{52}{343})$ $+ \frac{3}{343}\sqrt{6254}e^3 \otimes e_6 + \frac{3}{49}\sqrt{118}e^4 \otimes e_7$	{1234, 1679, 245689, 3578}
94:9	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{323}e^{12}, \frac{1}{29}\sqrt{285}e^{13}, \frac{1}{29}\sqrt{285}e^{23},$ $\frac{1}{29}\sqrt{285}e^{14} + \frac{1}{29}\sqrt{285}e^{25}$	$(-\frac{2}{29}, -\frac{2}{29}, \frac{14}{29}, -\frac{3}{29}, -\frac{3}{29}, -\frac{4}{29}, \frac{12}{29}, \frac{12}{29}, -\frac{5}{29})$ $+ \frac{7}{29}\sqrt{19}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{11}{343}\sqrt{2}e^{12}, \frac{11}{343}\sqrt{82}e^{13}, \frac{11}{343}\sqrt{310}e^{23},$ $\frac{22}{343}\sqrt{58}e^{14} + \frac{44}{343}\sqrt{10}e^{25}$	$(-\frac{44}{343}, -\frac{44}{343}, \frac{33}{343}, \frac{110}{343}, \frac{110}{343}, -\frac{88}{343}, -\frac{11}{343}, -\frac{11}{343}, \frac{66}{343})$ $+ \frac{22}{49}\sqrt{2}e^4 \otimes e_8 + \frac{33}{343}\sqrt{26}e^3 \otimes e_6$	{125689, 13789, 23459, 4679}
94:9	$0, 0, 0, 0, 0, \frac{2}{217}\sqrt{26}e^{12}, \frac{2}{217}\sqrt{47}e^{13}, \frac{1}{217}\sqrt{174}e^{23},$ $\frac{2}{217}\sqrt{3}e^{14} + \frac{1}{217}\sqrt{262}e^{25}$	$(-\frac{9}{217}, -\frac{2}{217}, \frac{5}{217}, \frac{12}{217}, \frac{5}{217}, -\frac{11}{217}, -\frac{4}{217}, \frac{3}{217}, \frac{3}{217})$ $+ \frac{1}{217}\sqrt{222}e^5 \otimes e_8 + \frac{1}{217}\sqrt{322}e^3 \otimes e_9 + \frac{2}{217}\sqrt{66}e^2 \otimes e_7$	{123456, 1579, 2489, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:9	$0, 0, 0, 0, 0, \frac{2}{217}\sqrt{26}e^{12}, \frac{2}{217}\sqrt{47}e^{13}, \frac{1}{217}\sqrt{174}e^{23},$ $\frac{1}{217}\sqrt{3}e^{14} + \frac{1}{217}\sqrt{262}e^{25}$	$(-\frac{9}{217}, -\frac{2}{217}, \frac{5}{217}, \frac{12}{217}, \frac{5}{217}, -\frac{11}{217}, -\frac{4}{217}, \frac{3}{217}, \frac{3}{217})$ $-\frac{1}{217}\sqrt{222}e^5 \otimes e_8 + \frac{1}{217}\sqrt{322}e^3 \otimes e_9 + \frac{1}{217}\sqrt{66}e^2 \otimes e_7$	{123456, 1579, 2489, 3678}
94:9	$0, 0, 0, 0, 0, \frac{11}{343}\sqrt{2}e^{12}, \frac{11}{343}\sqrt{114}e^{13}, \frac{11}{343}\sqrt{114}e^{23},$ $\frac{66}{343}e^{14} + \frac{66}{343}e^{25}$	$(-\frac{44}{343}, -\frac{44}{343}, \frac{33}{343}, \frac{110}{343}, \frac{110}{343}, -\frac{88}{343}, -\frac{11}{343}, -\frac{11}{343}, \frac{66}{343})$ $+\frac{22}{49}e^4 \otimes e_7 + \frac{22}{49}e^5 \otimes e_8 + \frac{33}{343}\sqrt{26}e^3 \otimes e_6$	{126789, 1348, 4569}
94:9	$0, 0, 0, 0, 0, \frac{11}{343}\sqrt{2}e^{12}, \frac{11}{343}\sqrt{114}e^{13}, \frac{11}{343}\sqrt{114}e^{23},$ $\frac{66}{343}e^{14} + \frac{66}{343}e^{25}$	$(-\frac{44}{343}, -\frac{44}{343}, \frac{33}{343}, \frac{110}{343}, \frac{110}{343}, -\frac{88}{343}, -\frac{11}{343}, -\frac{11}{343}, \frac{66}{343})$ $+\frac{22}{49}e^4 \otimes e_7 - \frac{22}{49}e^5 \otimes e_8 + \frac{33}{343}\sqrt{26}e^3 \otimes e_6$	{126789, 1348, 4569}
94:9	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{2139}e^{12}, \frac{12}{85}\sqrt{31}e^{13}, \frac{1}{85}\sqrt{93}e^{23},$ $\frac{12}{85}\sqrt{31}e^{14} + \frac{1}{85}\sqrt{93}e^{25}$	$(-\frac{22}{85}, \frac{5}{17}, -\frac{2}{17}, \frac{61}{85}, \frac{14}{85}, \frac{3}{85}, -\frac{32}{85}, \frac{3}{17}, \frac{39}{85})$ $+\frac{3}{85}\sqrt{1457}e^4 \otimes e_7$	{123456, 126789, 1348, 1579, 2357, 2489, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{1}{833}\sqrt{65658}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{1}{833}\sqrt{87978}e^{23},$ $\frac{12}{833}\sqrt{310}e^{14} + \frac{6}{833}\sqrt{1581}e^{25}$	$(\frac{87}{833}, -\frac{186}{833}, \frac{87}{833}, -\frac{46}{833}, \frac{227}{833}, -\frac{99}{833}, \frac{174}{833}, -\frac{99}{833}, \frac{41}{833})$ $+\frac{3}{833}\sqrt{14446}e^3 \otimes e_6 + \frac{3}{833}\sqrt{16926}e^1 \otimes e_8$	{1234, 12359, 14567, 1679, 245689, 268, 34789, 3578}
94:9	$0, 0, 0, 0, 0, \frac{10}{3149}\sqrt{11895}e^{12}, \frac{40}{3149}\sqrt{255}e^{13}, \frac{20}{3149}\sqrt{2595}e^{23},$ $\frac{10}{3149}\sqrt{17085}e^{14} + \frac{30}{3149}\sqrt{1315}e^{25}$	$(\frac{148}{3149}, -\frac{439}{3149}, -\frac{163}{3149}, \frac{459}{3149}, \frac{1046}{3149}, -\frac{291}{3149}, -\frac{15}{3149}, \frac{602}{3149}, \frac{607}{3149})$ $+\frac{30}{3149}\sqrt{2235}e^4 \otimes e_6 + \frac{30}{3149}\sqrt{2585}e^1 \otimes e_8$	{12347, 169, 2678, 3489}
94:9	$0, 0, 0, 0, 0, \frac{1}{385}\sqrt{2706}e^{12}, \frac{1}{385}\sqrt{14514}e^{13}, \frac{1}{385}\sqrt{17958}e^{23},$ $\frac{2}{385}\sqrt{7626}e^{14} + \frac{3}{385}\sqrt{1558}e^{25}$	$(\frac{38}{385}, \frac{2}{77}, -\frac{19}{77}, \frac{6}{35}, \frac{94}{385}, \frac{48}{385}, -\frac{57}{385}, -\frac{17}{77}, \frac{104}{385})$ $+\frac{3}{385}\sqrt{4182}e^4 \otimes e_7 + \frac{3}{385}\sqrt{5330}e^1 \otimes e_8$	{1234, 1679, 245689, 3578}
94:9	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{105}e^{12}, \frac{1}{21}\sqrt{21}e^{13}, \frac{2}{63}\sqrt{35}e^{23},$ $\frac{1}{63}\sqrt{133}e^{14} + \frac{2}{63}\sqrt{42}e^{25}$	$(-\frac{1}{9}, 0, 0, \frac{2}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9})$ $+\frac{1}{63}\sqrt{203}e^5 \otimes e_8 + \frac{1}{63}\sqrt{266}e^3 \otimes e_6 + \frac{5}{63}\sqrt{14}e^2 \otimes e_7$	{1235, 145679, 2689, 3478}
94:9	$0, 0, 0, 0, 0, \frac{12}{307}\sqrt{221}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{6}{307}\sqrt{187}e^{23},$ $\frac{21}{307}\sqrt{17}e^{14} + \frac{21}{307}\sqrt{17}e^{25}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{16}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{132}{307}, \frac{50}{307}, \frac{50}{307}, -\frac{21}{307})$ $+\frac{9}{307}\sqrt{527}e^1 \otimes e_4 + \frac{9}{307}\sqrt{527}e^2 \otimes e_5$	{123, 1278, 13568, 1567, 34578, 45}
94:9	$0, 0, 0, 0, 0, \frac{12}{307}\sqrt{221}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{6}{307}\sqrt{187}e^{23},$ $\frac{21}{307}\sqrt{17}e^{14} + \frac{21}{307}\sqrt{17}e^{25}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{16}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{132}{307}, \frac{50}{307}, \frac{50}{307}, -\frac{21}{307})$ $+\frac{9}{307}\sqrt{527}e^1 \otimes e_4 - \frac{9}{307}\sqrt{527}e^2 \otimes e_5$	{123, 1278, 13568, 1567, 34578, 45}
94:9	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{1}{35}\sqrt{42}e^{23},$ $\frac{1}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{42}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+\frac{1}{35}\sqrt{51}e^4 \otimes e_7 + \frac{1}{35}\sqrt{51}e^5 \otimes e_8 + \frac{1}{35}\sqrt{93}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{1}{35}\sqrt{42}e^{23},$ $\frac{1}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{42}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+\frac{1}{35}\sqrt{51}e^4 \otimes e_7 - \frac{1}{35}\sqrt{51}e^5 \otimes e_8 + \frac{1}{35}\sqrt{93}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 2357, 2489, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{1}{35}\sqrt{42}e^{23},$ $\frac{1}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{42}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $-\frac{1}{35}\sqrt{51}e^4 \otimes e_7 - \frac{1}{35}\sqrt{51}e^5 \otimes e_8 + \frac{1}{35}\sqrt{93}e^3 \otimes e_9$	{123456, 126789, 1348, 1579, 3678, 4569}
94:9	$0, 0, 0, 0, 0, \frac{6}{329}\sqrt{1961}e^{12}, \frac{3}{329}\sqrt{4958}e^{13}, \frac{6}{329}\sqrt{481}e^{23},$ $\frac{3}{329}\sqrt{8806}e^{14} + \frac{3}{329}\sqrt{4958}e^{25}$	$(-\frac{108}{329}, -\frac{15}{329}, \frac{13}{47}, \frac{30}{47}, \frac{117}{329}, -\frac{123}{329}, -\frac{17}{329}, \frac{76}{329}, \frac{102}{329})$ $+\frac{9}{329}\sqrt{2294}e^4 \otimes e_6$	{12347, 1248, 136789, 169, 236, 2678, 3489, 479}
94:9	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{3}{35}e^{13}, \frac{1}{35}\sqrt{93}e^{23}, \frac{1}{35}\sqrt{93}e^{14} + \frac{3}{35}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+\frac{1}{35}\sqrt{102}e^4 \otimes e_8 + \frac{1}{35}\sqrt{93}e^3 \otimes e_9$	{123467, 125689, 3568, 4679}
94:9	$0, 0, 0, 0, 0, \frac{2}{3233}\sqrt{520890}e^{12}, \frac{10}{3233}\sqrt{20406}e^{13}, \frac{24}{3233}\sqrt{179}e^{23},$ $\frac{14}{3233}\sqrt{5907}e^{14} + \frac{4}{3233}\sqrt{5370}e^{25}$	$(\frac{379}{3233}, -\frac{619}{3233}, \frac{834}{3233}, -\frac{695}{3233}, \frac{303}{3233}, -\frac{240}{3233}, \frac{1213}{3233}, \frac{215}{3233}, -\frac{316}{3233})$ $+\frac{6}{3233}\sqrt{87889}e^3 \otimes e_6 + \frac{6}{3233}\sqrt{89321}e^1 \otimes e_4$	{1238, 15678, 246, 3457}
94:9	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{26553}e^{12}, \frac{2}{659}\sqrt{6513}e^{13}, \frac{2}{659}\sqrt{10855}e^{23},$ $\frac{2}{659}\sqrt{10855}e^{14} + \frac{2}{659}\sqrt{2171}e^{25}$	$(\frac{143}{659}, -\frac{162}{659}, -\frac{29}{659}, \frac{10}{659}, \frac{315}{659}, -\frac{19}{659}, \frac{114}{659}, -\frac{191}{659}, \frac{153}{659})$ $+\frac{2}{659}\sqrt{42251}e^5 \otimes e_6 + \frac{2}{659}\sqrt{55277}e^1 \otimes e_8$	{12345, 1467, 24689, 345789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:9	$0, 0, 0, 0, 0, \frac{16}{53}\sqrt{2}e^{12}, \frac{32}{53}e^{13}, \frac{8}{53}\sqrt{3}e^{23}, \frac{8}{53}\sqrt{3}e^{14} + \frac{32}{53}e^{25}$	$(-\frac{1}{53}, -\frac{1}{53}, -\frac{9}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{2}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{21}{53})$ $+ \frac{8}{53}\sqrt{47}e^4 \otimes e_8$	{123467, 125689, 13789, 145, 23459, 278, 3568, 4679}
94:9	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{10}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{10}{49}\sqrt{2}e^{23},$ $\frac{10}{49}\sqrt{2}e^{14} + \frac{2}{49}\sqrt{10}e^{25}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{86}e^3 \otimes e_9 + \frac{4}{49}\sqrt{19}e^1 \otimes e_8 + \frac{8}{49}e^5 \otimes e_6$	{1579, 3678}
94:9	$0, 0, 0, 0, 0, \frac{10}{3149}\sqrt{11895}e^{12}, \frac{10}{3149}\sqrt{17085}e^{13}, \frac{40}{3149}\sqrt{255}e^{23},$ $\frac{30}{3149}\sqrt{1315}e^{14} + \frac{20}{3149}\sqrt{2595}e^{25}$	$(\frac{455}{3149}, \frac{595}{3149}, -\frac{610}{3149}, -\frac{295}{3149}, -\frac{435}{3149}, \frac{1050}{3149}, -\frac{155}{3149}, -\frac{15}{3149}, \frac{160}{3149})$ $+ \frac{30}{3149}\sqrt{2235}e^1 \otimes e_4 + \frac{30}{3149}\sqrt{2585}e^2 \otimes e_7$	{12358, 1678, 2456, 347}
94:9	$0, 0, 0, 0, 0, \frac{11}{637}\sqrt{166}e^{12}, \frac{22}{637}\sqrt{74}e^{13}, \frac{22}{637}\sqrt{46}e^{23},$ $\frac{66}{637}e^{14} + \frac{11}{637}\sqrt{6}e^{25}$	$(\frac{33}{637}, -\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, \frac{66}{637}, -\frac{88}{637}, \frac{66}{637})$ $+ \frac{11}{637}\sqrt{266}e^5 \otimes e_7 + \frac{11}{637}\sqrt{462}e^1 \otimes e_8 + \frac{22}{637}\sqrt{111}e^3 \otimes e_6$	{12359, 1679, 245689, 34789}
94:9	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{4}{35}\sqrt{7}e^{23},$ $\frac{2}{35}\sqrt{14}e^{14} + \frac{3}{35}\sqrt{14}e^{25}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{238}e^3 \otimes e_9 + \frac{1}{35}\sqrt{42}e^1 \otimes e_4 - \frac{2}{35}\sqrt{42}e^5 \otimes e_8$	{126789, 1579, 2489, 4569}
94:9	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{4}{35}\sqrt{7}e^{23},$ $\frac{2}{35}\sqrt{14}e^{14} + \frac{3}{35}\sqrt{14}e^{25}$	$(\frac{3}{35}, -\frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, \frac{6}{35}, -\frac{4}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{238}e^3 \otimes e_9 + \frac{1}{35}\sqrt{42}e^1 \otimes e_4 + \frac{2}{35}\sqrt{42}e^5 \otimes e_8$	{126789, 1579, 2489, 4569}
94:9	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{14}e^{12}, \frac{2}{79}\sqrt{105}e^{13}, \frac{5}{79}\sqrt{42}e^{23},$ $\frac{4}{79}\sqrt{105}e^{14} + \frac{2}{79}\sqrt{105}e^{25}$	$(-\frac{16}{79}, -\frac{7}{79}, \frac{31}{79}, \frac{12}{79}, \frac{3}{79}, -\frac{23}{79}, \frac{15}{79}, \frac{24}{79}, -\frac{4}{79})$ $+ \frac{1}{79}\sqrt{3010}e^3 \otimes e_9 + \frac{3}{79}\sqrt{210}e^4 \otimes e_6$	{126789, 1348, 2489, 3678}
94:9	$0, 0, 0, 0, 0, \frac{1}{131}\sqrt{2310}e^{12}, \frac{21}{131}\sqrt{6}e^{13}, \frac{2}{131}\sqrt{966}e^{23},$ $\frac{1}{131}\sqrt{4242}e^{14} + \frac{2}{131}\sqrt{105}e^{25}$	$(-\frac{17}{262}, -\frac{49}{262}, \frac{15}{262}, \frac{51}{131}, \frac{67}{131}, -\frac{33}{131}, -\frac{1}{131}, -\frac{17}{131}, \frac{85}{262})$ $+ \frac{3}{131}\sqrt{1022}e^5 \otimes e_8 + \frac{6}{131}\sqrt{287}e^4 \otimes e_6$	{123457, 1569, 2356, 4579}
94:9	$0, 0, 0, 0, 0, \frac{5}{467}\sqrt{429}e^{12}, \frac{5}{467}\sqrt{777}e^{13}, \frac{10}{467}\sqrt{6}e^{23},$ $\frac{45}{467}\sqrt{7}e^{14} + \frac{10}{467}\sqrt{174}e^{25}$	$(\frac{65}{467}, \frac{40}{467}, -\frac{100}{467}, -\frac{10}{467}, \frac{15}{467}, \frac{105}{467}, \frac{35}{467}, -\frac{60}{467}, \frac{55}{467})$ $+ \frac{15}{467}\sqrt{65}e^5 \otimes e_8 + \frac{30}{467}\sqrt{23}e^1 \otimes e_4 + \frac{30}{467}\sqrt{33}e^2 \otimes e_7$	{1235, 3478}
94:9	$0, 0, 0, 0, 0, \frac{52}{1169}\sqrt{33}e^{12}, \frac{39}{1169}\sqrt{47}e^{13}, \frac{13}{1169}\sqrt{95}e^{23},$ $\frac{13}{1169}\sqrt{210}e^{14} + \frac{13}{1169}\sqrt{446}e^{25}$	$(\frac{13}{1169}, \frac{13}{1169}, -\frac{169}{1169}, \frac{195}{1169}, \frac{195}{1169}, \frac{26}{1169}, -\frac{156}{1169}, -\frac{156}{1169}, \frac{208}{1169})$ $+ \frac{13}{1169}\sqrt{587}e^1 \otimes e_8 - \frac{13}{1169}\sqrt{915}e^2 \otimes e_7 + \frac{52}{1169}\sqrt{41}e^5 \otimes e_6$	{1235, 167, 2689, 35789}
94:9	$0, 0, 0, 0, 0, \frac{52}{1169}\sqrt{33}e^{12}, \frac{39}{1169}\sqrt{47}e^{13}, \frac{13}{1169}\sqrt{95}e^{23},$ $\frac{13}{1169}\sqrt{210}e^{14} + \frac{13}{1169}\sqrt{446}e^{25}$	$(\frac{13}{1169}, \frac{13}{1169}, -\frac{169}{1169}, \frac{195}{1169}, \frac{195}{1169}, \frac{26}{1169}, -\frac{156}{1169}, -\frac{156}{1169}, \frac{208}{1169})$ $+ \frac{13}{1169}\sqrt{587}e^1 \otimes e_8 + \frac{13}{1169}\sqrt{915}e^2 \otimes e_7 + \frac{52}{1169}\sqrt{41}e^5 \otimes e_6$	{1235, 167, 2689, 35789}
94:9	$0, 0, 0, 0, 0, \frac{1}{343}\sqrt{57270}e^{12}, \frac{1}{343}\sqrt{48990}e^{13}, \frac{1}{343}\sqrt{48990}e^{23},$ $\frac{12}{343}\sqrt{115}e^{14} + \frac{12}{343}\sqrt{115}e^{25}$	$(-\frac{72}{343}, -\frac{72}{343}, \frac{201}{343}, \frac{82}{343}, \frac{82}{343}, -\frac{144}{343}, \frac{129}{343}, \frac{129}{343}, \frac{10}{343})$ $+ \frac{15}{343}\sqrt{874}e^3 \otimes e_6$	{123, 123459, 14679, 1567, 34578, 3789}
94:9	$0, 0, 0, 0, 0, \frac{1}{85}\sqrt{66}e^{12}, \frac{2}{85}\sqrt{57}e^{13}, \frac{3}{85}\sqrt{6}e^{23},$ $\frac{3}{85}\sqrt{6}e^{14} + \frac{3}{85}\sqrt{22}e^{25}$	$(\frac{2}{85}, -\frac{8}{85}, \frac{4}{85}, -\frac{1}{85}, \frac{9}{85}, -\frac{6}{85}, \frac{6}{85}, -\frac{4}{85}, \frac{1}{85})$ $+ \frac{1}{85}\sqrt{222}e^5 \otimes e_7 + \frac{2}{85}\sqrt{42}e^3 \otimes e_9 + \frac{3}{85}\sqrt{10}e^1 \otimes e_4$	{123568, 3467}
94:9	$0, 0, 0, 0, 0, \frac{1}{833}\sqrt{65658}e^{12}, \frac{20}{833}\sqrt{93}e^{13}, \frac{1}{833}\sqrt{87978}e^{23},$ $\frac{12}{833}\sqrt{310}e^{14} + \frac{6}{833}\sqrt{1581}e^{25}$	$(\frac{87}{833}, -\frac{186}{833}, \frac{87}{833}, -\frac{46}{833}, \frac{227}{833}, -\frac{99}{833}, \frac{174}{833}, -\frac{99}{833}, \frac{41}{833})$ $- \frac{3}{833}\sqrt{14446}e^3 \otimes e_6 + \frac{3}{833}\sqrt{16926}e^1 \otimes e_8$	{1234, 12359, 14567, 1679, 245689, 268, 34789, 3578}
94:9	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{890}e^{12}, \frac{2}{197}\sqrt{3293}e^{13}, \frac{2}{197}\sqrt{445}e^{23},$ $\frac{2}{197}\sqrt{445}e^{14} + \frac{1}{197}\sqrt{9078}e^{25}$	$(\frac{31}{197}, -\frac{15}{197}, -\frac{43}{197}, \frac{31}{197}, \frac{77}{197}, \frac{16}{197}, -\frac{12}{197}, -\frac{58}{197}, \frac{62}{197})$ $+ \frac{1}{197}\sqrt{12282}e^1 \otimes e_8 + \frac{1}{197}\sqrt{19046}e^5 \otimes e_7$	{124679, 13459, 23789, 5689}
94:9	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{345}e^{12}, \frac{1}{133}\sqrt{555}e^{13}, \frac{1}{133}\sqrt{93}e^{23},$ $\frac{1}{133}\sqrt{177}e^{14} + \frac{1}{133}\sqrt{555}e^{25}$	$(\frac{4}{133}, -\frac{10}{133}, \frac{4}{133}, -\frac{3}{133}, \frac{11}{133}, -\frac{6}{133}, \frac{8}{133}, -\frac{6}{133}, \frac{1}{133})$ $+ \frac{1}{133}\sqrt{429}e^3 \otimes e_9 + \frac{2}{133}\sqrt{141}e^5 \otimes e_7 + \frac{6}{133}\sqrt{7}e^4 \otimes e_6$	{124679, 3467}
94:9	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{105}e^{12}, \frac{1}{21}\sqrt{21}e^{13}, \frac{2}{63}\sqrt{35}e^{23},$ $\frac{1}{63}\sqrt{133}e^{14} + \frac{2}{63}\sqrt{42}e^{25}$	$(-\frac{1}{9}, 0, 0, \frac{2}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9})$ $+ \frac{1}{63}\sqrt{203}e^5 \otimes e_8 - \frac{1}{63}\sqrt{266}e^3 \otimes e_6 + \frac{5}{63}\sqrt{14}e^2 \otimes e_7$	{1235, 145679, 2689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:9	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{3}{35}\sqrt{14}e^{23},$ $\frac{2}{35}\sqrt{21}e^{14} + \frac{4}{35}\sqrt{7}e^{25}$	$(0, -\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0)$ $+\frac{1}{35}\sqrt{238}e^3 \otimes e_9 + \frac{1}{35}\sqrt{42}e^4 \otimes e_6 - \frac{2}{35}\sqrt{42}e^5 \otimes e_8$	{126789, 1348, 2489, 3678}
94:9	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{3}{35}\sqrt{14}e^{23},$ $\frac{2}{35}\sqrt{21}e^{14} + \frac{4}{35}\sqrt{7}e^{25}$	$(0, -\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0)$ $+\frac{1}{35}\sqrt{238}e^3 \otimes e_9 + \frac{1}{35}\sqrt{42}e^4 \otimes e_6 + \frac{2}{35}\sqrt{42}e^5 \otimes e_8$	{126789, 1348, 2489, 3678}
94:9	$0, 0, 0, 0, 0, \frac{4}{169}\sqrt{30}e^{12}, \frac{1}{507}\sqrt{4170}e^{13}, \frac{1}{507}\sqrt{2130}e^{23},$ $\frac{1}{169}\sqrt{110}e^{14} + \frac{1}{507}\sqrt{4170}e^{25}$	$(\frac{8}{169}, -\frac{1}{169}, -\frac{14}{169}, \frac{3}{169}, \frac{12}{169}, \frac{7}{169}, -\frac{6}{169}, -\frac{15}{169}, \frac{11}{169})$ $+\frac{1}{169}\sqrt{610}e^2 \otimes e_7 + \frac{1}{507}\sqrt{4470}e^1 \otimes e_4 + \frac{1}{507}\sqrt{4470}e^5 \otimes e_6$	{12358, 1678}
94:9	$0, 0, 0, 0, 0, \frac{17}{1001}\sqrt{165}e^{12}, \frac{34}{1001}\sqrt{69}e^{13}, \frac{17}{1001}\sqrt{241}e^{23},$ $\frac{34}{1001}\sqrt{115}e^{14} + \frac{17}{1001}\sqrt{127}e^{25}$	$(\frac{68}{1001}, -\frac{51}{1001}, -\frac{170}{1001}, \frac{17}{91}, \frac{306}{1001}, \frac{17}{1001}, -\frac{102}{1001}, -\frac{17}{77}, \frac{255}{1001})$ $+\frac{34}{1001}\sqrt{215}e^1 \otimes e_8 + \frac{34}{1001}\sqrt{77}e^5 \otimes e_6 + \frac{51}{1001}\sqrt{73}e^4 \otimes e_7$	{1679, 3578}
94:9	$0, 0, 0, 0, 0, \frac{2}{347}\sqrt{7917}e^{12}, \frac{1}{347}\sqrt{10374}e^{13}, \frac{2}{347}\sqrt{15834}e^{23},$ $\frac{2}{347}\sqrt{15834}e^{14} + \frac{78}{347}\sqrt{7}e^{25}$	$(\frac{154}{347}, -\frac{40}{347}, -\frac{79}{347}, -\frac{60}{347}, \frac{134}{347}, \frac{114}{347}, \frac{75}{347}, -\frac{119}{347}, \frac{94}{347})$ $+\frac{3}{347}\sqrt{17654}e^1 \otimes e_8$	{1234, 12359, 14567, 1679, 245689, 268, 34789, 3578}
94:9	$0, 0, 0, 0, 0, \frac{22}{2561}\sqrt{298}e^{12}, \frac{22}{2561}\sqrt{1110}e^{13}, \frac{264}{2561}\sqrt{3}e^{23},$ $\frac{22}{2561}\sqrt{635}e^{14} + \frac{44}{2561}\sqrt{158}e^{25}$	$(\frac{187}{2561}, -\frac{363}{2561}, \frac{66}{2561}, -\frac{55}{2561}, \frac{495}{2561}, -\frac{176}{2561}, \frac{253}{2561}, -\frac{297}{2561}, \frac{132}{2561})$ $+\frac{110}{2561}\sqrt{33}e^1 \otimes e_4 + \frac{22}{2561}\sqrt{609}e^3 \otimes e_6 - \frac{88}{2561}\sqrt{62}e^5 \otimes e_7$	{12358, 1678, 2456, 347}
94:9	$0, 0, 0, 0, 0, \frac{22}{2561}\sqrt{298}e^{12}, \frac{22}{2561}\sqrt{1110}e^{13}, \frac{264}{2561}\sqrt{3}e^{23},$ $\frac{22}{2561}\sqrt{635}e^{14} + \frac{44}{2561}\sqrt{158}e^{25}$	$(\frac{187}{2561}, -\frac{363}{2561}, \frac{66}{2561}, -\frac{55}{2561}, \frac{495}{2561}, -\frac{176}{2561}, \frac{253}{2561}, -\frac{297}{2561}, \frac{132}{2561})$ $+\frac{110}{2561}\sqrt{33}e^1 \otimes e_4 + \frac{22}{2561}\sqrt{609}e^3 \otimes e_6 + \frac{88}{2561}\sqrt{62}e^5 \otimes e_7$	{12358, 1678, 2456, 347}
94:10	$0, 0, 0, 0, 0, \frac{3}{89}\sqrt{438}e^{12}, \frac{3}{89}\sqrt{438}e^{13}, \frac{89}{89}\sqrt{3358}e^{14},$ $\frac{3}{89}\sqrt{438}e^{15} + \frac{1}{89}\sqrt{3358}e^{23}$	$(\frac{31}{89}, \frac{8}{89}, \frac{8}{89}, -\frac{42}{89}, -\frac{15}{89}, \frac{39}{89}, \frac{39}{89}, -\frac{11}{89}, \frac{16}{89})$ $+\frac{1}{89}\sqrt{11242}e^1 \otimes e_4$	{1239, 1257, 1679, 2345679, 246, 459}
94:10	$0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13}, \frac{4}{19}e^{14}, \frac{2}{19}\sqrt{11}e^{15} + \frac{4}{19}e^{23}$	$(\frac{8}{57}, \frac{4}{19}, -\frac{14}{57}, \frac{1}{57}, -\frac{10}{57}, \frac{20}{57}, -\frac{2}{19}, \frac{3}{19}, -\frac{2}{57})$ $+\frac{2}{19}\sqrt{26}e^1 \otimes e_5 + \frac{2}{19}\sqrt{26}e^2 \otimes e_7$	{1234, 1238, 1467, 1678}
94:10	$0, 0, 0, 0, 0, \frac{22}{1127}\sqrt{231}e^{12}, \frac{22}{1127}\sqrt{78}e^{13}, \frac{11}{1127}\sqrt{1842}e^{14},$ $\frac{11}{1127}\sqrt{618}e^{15} + \frac{66}{1127}\sqrt{34}e^{23}$	$(-\frac{209}{1127}, \frac{11}{49}, -\frac{55}{1127}, \frac{99}{1127}, \frac{407}{1127}, \frac{44}{1127}, -\frac{264}{1127}, -\frac{110}{1127}, \frac{198}{1127})$ $+\frac{22}{1127}\sqrt{771}e^2 \otimes e_8 + \frac{33}{1127}\sqrt{138}e^5 \otimes e_6 + \frac{33}{1127}\sqrt{206}e^4 \otimes e_7$	{12459, 2679}
94:10	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{1474}e^{12}, \frac{1}{126}\sqrt{1474}e^{13}, \frac{11}{63}e^{14},$ $\frac{9}{63}\sqrt{11}e^{15} + \frac{2}{63}\sqrt{77}e^{23}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{10}{63}, \frac{17}{63}, -\frac{8}{63}, -\frac{8}{63}, -\frac{1}{63}, \frac{2}{21})$ $+\frac{1}{42}\sqrt{286}e^2 \otimes e_7 - \frac{1}{42}\sqrt{286}e^3 \otimes e_6$	{123, 12348, 14678, 167, 2469, 2689}
94:10	$0, 0, 0, 0, 0, \frac{20}{497}\sqrt{5}e^{12}, \frac{25}{497}\sqrt{46}e^{13}, \frac{10}{71}\sqrt{5}e^{14},$ $\frac{5}{497}\sqrt{1070}e^{15} + \frac{10}{497}\sqrt{410}e^{23}$	$(-\frac{55}{497}, \frac{85}{497}, \frac{15}{497}, -\frac{55}{497}, \frac{155}{497}, \frac{30}{497}, -\frac{40}{497}, -\frac{110}{497}, \frac{100}{497})$ $+\frac{25}{497}\sqrt{2}e^5 \otimes e_6 + \frac{30}{497}\sqrt{55}e^2 \otimes e_7 + \frac{5}{497}\sqrt{2510}e^3 \otimes e_8$	{12346, 3679}
94:10	$0, 0, 0, 0, 0, \frac{3}{100}\sqrt{35}e^{12}, \frac{3}{100}\sqrt{35}e^{13}, \frac{3}{50}\sqrt{85}e^{14},$ $\frac{3}{20}\sqrt{2}e^{15} + \frac{3}{50}\sqrt{55}e^{23}$	$(\frac{3}{20}, -\frac{3}{40}, -\frac{3}{40}, \frac{3}{10}, -\frac{3}{10}, \frac{3}{40}, \frac{3}{40}, \frac{9}{20}, -\frac{3}{20})$ $+\frac{3}{100}\sqrt{530}e^4 \otimes e_9 + \frac{9}{50}\sqrt{10}e^1 \otimes e_5$	{12689, 2579}
94:10	$0, 0, 0, 0, 0, \frac{15}{488}\sqrt{37}e^{12}, \frac{3}{488}\sqrt{4403}e^{13}, \frac{3}{488}\sqrt{2294}e^{14},$ $\frac{3}{488}\sqrt{4403}e^{15} + \frac{3}{244}\sqrt{703}e^{23}$	$(-\frac{145}{488}, \frac{43}{488}, \frac{67}{976}, \frac{231}{488}, \frac{443}{976}, -\frac{51}{244}, -\frac{223}{976}, \frac{43}{244}, \frac{153}{976})$ $+\frac{3}{244}\sqrt{4181}e^5 \otimes e_7 + \frac{9}{488}\sqrt{1702}e^4 \otimes e_6$	{13568, 16789, 3478, 4589}
94:10	$0, 0, 0, 0, 0, \frac{3}{679}\sqrt{114}e^{12}, \frac{6}{679}\sqrt{435}e^{13}, \frac{6}{679}\sqrt{618}e^{14},$ $\frac{3}{679}\sqrt{618}e^{15} + \frac{6}{679}\sqrt{618}e^{23}$	$(\frac{15}{679}, \frac{57}{679}, -\frac{69}{679}, \frac{15}{679}, -\frac{27}{679}, \frac{72}{679}, -\frac{54}{679}, \frac{30}{679}, -\frac{12}{679})$ $+\frac{6}{679}\sqrt{561}e^4 \otimes e_9 + \frac{9}{679}\sqrt{122}e^5 \otimes e_7 + \frac{9}{679}\sqrt{290}e^2 \otimes e_8$	{1356789, 4578}
94:10	$0, 0, 0, 0, 0, \frac{1}{276}\sqrt{19631}e^{12}, \frac{1}{276}\sqrt{19631}e^{13}, \frac{1}{276}\sqrt{50982}e^{14},$ $\frac{1}{138}\sqrt{12013}e^{15} + \frac{1}{138}\sqrt{1465}e^{23}$	$(-\frac{19}{92}, \frac{137}{552}, \frac{137}{552}, -\frac{7}{46}, \frac{97}{138}, \frac{1}{24}, \frac{1}{24}, -\frac{33}{92}, \frac{137}{276})$ $+\frac{1}{276}\sqrt{135366}e^5 \otimes e_8$	{1234567, 12689, 145, 2348, 2579, 4678}
94:10	$0, 0, 0, 0, 0, \frac{7}{500}\sqrt{517}e^{12}, \frac{7}{500}\sqrt{517}e^{13}, \frac{1}{500}\sqrt{36190}e^{14},$ $\frac{1}{250}\sqrt{3619}e^{15} + \frac{1}{250}\sqrt{10857}e^{23}$	$(-\frac{93}{500}, \frac{77}{200}, -\frac{87}{1000}, \frac{3}{250}, \frac{121}{250}, \frac{199}{1000}, -\frac{273}{1000}, -\frac{87}{500}, \frac{149}{500})$ $+\frac{1}{250}\sqrt{38822}e^2 \otimes e_7 + \frac{7}{500}\sqrt{2726}e^5 \otimes e_8$	{12345, 14567, 2569, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:10	$0, 0, 0, 0, 0, \frac{3}{56}\sqrt{29}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{56}\sqrt{43}e^{14},$ $\frac{3}{56}\sqrt{23}e^{15} + \frac{3}{28}\sqrt{7}e^{23}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{3}{112}, \frac{5}{56}, \frac{31}{112}, -\frac{1}{14}, -\frac{15}{112}, -\frac{1}{14}, \frac{13}{112})$ $+\frac{3}{56}\sqrt{59}e^2 \otimes e_8 - \frac{9}{56}\sqrt{5}e^4 \otimes e_6$	{12347, 12459, 1356789, 168, 2356, 2679, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{3}{92}\sqrt{266}e^{12}, \frac{3}{92}\sqrt{287}e^{13}, \frac{3}{46}\sqrt{133}e^{14},$ $\frac{3}{92}\sqrt{287}e^{15} + \frac{3}{46}\sqrt{133}e^{23}$	$(-\frac{3}{92}, \frac{35}{92}, -\frac{9}{184}, -\frac{25}{92}, \frac{67}{184}, \frac{8}{23}, -\frac{15}{184}, -\frac{7}{23}, \frac{61}{184})$ $+\frac{3}{92}\sqrt{1106}e^2 \otimes e_8$	{12347, 12459, 1356789, 168, 2356, 2679, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{9}{28}e^{12}, \frac{9}{28}e^{13}, \frac{3}{14}e^{14}, \frac{3}{56}\sqrt{30}e^{15} + \frac{3}{28}\sqrt{7}e^{23}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56})$ $+\frac{3}{56}\sqrt{14}e^5 \otimes e_8 + \frac{3}{56}\sqrt{59}e^2 \otimes e_7 - \frac{3}{56}\sqrt{59}e^3 \otimes e_6$	{123, 167, 2469}
94:10	$0, 0, 0, 0, 0, \frac{1}{138}\sqrt{12013}e^{12}, \frac{1}{276}\sqrt{19631}e^{13}, \frac{1}{276}\sqrt{50982}e^{14},$ $\frac{1}{276}\sqrt{19631}e^{15} + \frac{1}{138}\sqrt{1465}e^{23}$	$(-\frac{19}{92}, -\frac{47}{276}, \frac{137}{552}, \frac{63}{92}, \frac{157}{552}, -\frac{26}{69}, \frac{1}{24}, \frac{11}{23}, \frac{43}{552})$ $+\frac{1}{276}\sqrt{135366}e^4 \otimes e_6$	{12347, 12459, 1356789, 168, 2356, 2679, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{11}{1127}\sqrt{618}e^{12}, \frac{22}{1127}\sqrt{78}e^{13}, \frac{11}{1127}\sqrt{606}e^{14},$ $\frac{22}{1127}\sqrt{231}e^{15} + \frac{66}{1127}\sqrt{34}e^{23}$	$(-\frac{209}{1127}, \frac{99}{1127}, -\frac{55}{1127}, \frac{407}{1127}, \frac{11}{49}, -\frac{110}{1127}, -\frac{264}{1127}, \frac{198}{1127}, \frac{44}{1127})$ $+\frac{22}{1127}\sqrt{465}e^5 \otimes e_6 + \frac{33}{1127}\sqrt{206}e^2 \otimes e_7 + \frac{33}{1127}\sqrt{274}e^4 \otimes e_9$	{136789, 23468}
94:10	$0, 0, 0, 0, 0, \frac{3}{100}\sqrt{35}e^{12}, \frac{3}{100}\sqrt{35}e^{13}, \frac{3}{50}\sqrt{55}e^{14},$ $\frac{3}{20}\sqrt{2}e^{15} + \frac{3}{50}\sqrt{85}e^{23}$	$(-\frac{9}{100}, \frac{33}{200}, -\frac{39}{200}, \frac{21}{50}, \frac{3}{50}, \frac{3}{40}, -\frac{57}{200}, \frac{33}{100}, -\frac{3}{100})$ $+\frac{3}{100}\sqrt{530}e^4 \otimes e_9 + \frac{9}{50}\sqrt{10}e^2 \otimes e_7$	{12689, 13789, 2348, 4678}
94:10	$0, 0, 0, 0, 0, \frac{1}{288}\sqrt{10945}e^{12}, \frac{1}{48}\sqrt{110}e^{13}, \frac{1}{288}\sqrt{8030}e^{14},$ $\frac{1}{288}\sqrt{10945}e^{15} + \frac{1}{288}\sqrt{8030}e^{23}$	$(-\frac{1}{288}, -\frac{7}{192}, \frac{53}{288}, -\frac{7}{36}, \frac{29}{192}, -\frac{23}{576}, \frac{13}{72}, -\frac{19}{96}, \frac{85}{576})$ $+\frac{1}{288}\sqrt{13970}e^5 \otimes e_6 + \frac{5}{288}\sqrt{638}e^1 \otimes e_4$	{1257, 1679, 246, 459}
94:10	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{8}\sqrt{5}e^{13}, \frac{1}{4}\sqrt{5}e^{14},$ $\frac{1}{8}\sqrt{5}e^{15} + \frac{1}{4}\sqrt{5}e^{23}$	$(-\frac{1}{8}, \frac{3}{8}, -\frac{1}{16}, -\frac{1}{8}, \frac{7}{16}, \frac{1}{4}, -\frac{3}{16}, -\frac{1}{4}, \frac{5}{16})$ $+\frac{1}{4}\sqrt{5}e^5 \otimes e_7 + \frac{5}{8}\sqrt{2}e^2 \otimes e_8$	{12347, 12459, 2356, 2679}
94:10	$0, 0, 0, 0, 0, \frac{5}{28}e^{12}, \frac{1}{28}\sqrt{29}e^{13}, \frac{1}{28}\sqrt{39}e^{14},$ $\frac{1}{28}\sqrt{29}e^{15} + \frac{1}{14}\sqrt{7}e^{23}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56})$ $+\frac{1}{14}\sqrt{7}e^5 \otimes e_7 - \frac{1}{28}\sqrt{33}e^4 \otimes e_6 + \frac{1}{28}\sqrt{47}e^2 \otimes e_8$	{1356789, 168, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{2}{2609}\sqrt{523095}e^{12}, \frac{2}{2609}\sqrt{150285}e^{13}, \frac{2}{2609}\sqrt{215430}e^{14},$ $\frac{2}{2609}\sqrt{136095}e^{15} + \frac{6}{2609}\sqrt{4730}e^{23}$	$(-\frac{668}{2609}, \frac{576}{2609}, -\frac{46}{2609}, \frac{587}{2609}, \frac{1198}{2609}, -\frac{92}{2609}, -\frac{714}{2609}, -\frac{81}{2609}, \frac{530}{2609})$ $+\frac{120}{2609}\sqrt{215}e^2 \otimes e_7 + \frac{68}{2609}\sqrt{645}e^5 \otimes e_6$	{123458, 1235, 34579, 35789}
94:10	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{42}e^{12}, \frac{2}{115}\sqrt{42}e^{13}, \frac{4}{115}\sqrt{231}e^{14},$ $\frac{6}{115}\sqrt{483}e^{15} + \frac{6}{115}\sqrt{70}e^{23}$	$(-\frac{16}{115}, \frac{7}{23}, -\frac{17}{115}, \frac{9}{115}, \frac{34}{115}, \frac{19}{115}, -\frac{33}{115}, -\frac{7}{115}, \frac{18}{115})$ $+\frac{2}{115}\sqrt{1302}e^2 \otimes e_8 + \frac{42}{115}\sqrt{2}e^4 \otimes e_7$	{12459, 1356789, 2679, 3489}
94:10	$0, 0, 0, 0, 0, \frac{4}{93}\sqrt{46}e^{12}, \frac{2}{93}\sqrt{299}e^{13}, \frac{2}{93}\sqrt{690}e^{14},$ $\frac{4}{93}\sqrt{46}e^{15} + \frac{2}{93}\sqrt{46}e^{23}$	$(-\frac{8}{31}, -\frac{1}{93}, \frac{20}{93}, \frac{7}{31}, \frac{43}{93}, -\frac{25}{93}, -\frac{4}{93}, -\frac{1}{31}, \frac{19}{93})$ $+\frac{2}{93}\sqrt{966}e^4 \otimes e_6 + \frac{2}{93}\sqrt{966}e^5 \otimes e_8$	{123457, 136789, 25679, 478}
94:10	$0, 0, 0, 0, 0, \frac{6}{89}\sqrt{155}e^{12}, \frac{6}{89}\sqrt{35}e^{13}, \frac{6}{89}\sqrt{70}e^{14},$ $\frac{6}{89}\sqrt{155}e^{15} + \frac{6}{89}\sqrt{70}e^{23}$	$(-\frac{28}{89}, -\frac{4}{89}, \frac{34}{89}, \frac{27}{89}, \frac{58}{89}, -\frac{32}{89}, \frac{6}{89}, -\frac{1}{89}, \frac{30}{89})$ $+\frac{12}{89}\sqrt{95}e^5 \otimes e_6$	{12458, 125, 14689, 169, 2467, 2678, 4579, 5789}
94:10	$0, 0, 0, 0, 0, \frac{80}{2981}\sqrt{15}e^{12}, \frac{100}{2981}\sqrt{105}e^{13}, \frac{20}{2981}\sqrt{2265}e^{14},$ $\frac{10}{2981}\sqrt{9915}e^{15} + \frac{30}{2981}\sqrt{1670}e^{23}$	$(-\frac{320}{2981}, \frac{515}{2981}, \frac{85}{2981}, -\frac{345}{2981}, \frac{920}{2981}, \frac{195}{2981}, -\frac{235}{2981}, -\frac{665}{2981}, \frac{600}{2981})$ $+\frac{20}{2981}\sqrt{5730}e^3 \otimes e_8 + \frac{30}{2981}\sqrt{1990}e^2 \otimes e_7$	{12346, 178, 2489, 3679}
94:10	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{1474}e^{12}, \frac{1}{126}\sqrt{1474}e^{13}, \frac{11}{63}e^{14},$ $\frac{5}{63}\sqrt{11}e^{15} + \frac{2}{63}\sqrt{77}e^{23}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{10}{63}, \frac{17}{63}, -\frac{8}{63}, -\frac{8}{63}, -\frac{1}{63}, \frac{2}{21})$ $+\frac{1}{42}\sqrt{286}e^2 \otimes e_7 + \frac{1}{42}\sqrt{286}e^3 \otimes e_6$	{123, 12348, 14678, 167, 2469, 2689}
94:10	$0, 0, 0, 0, 0, \frac{3}{56}\sqrt{23}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{56}\sqrt{43}e^{14},$ $\frac{3}{56}\sqrt{29}e^{15} + \frac{3}{28}\sqrt{7}e^{23}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56})$ $+\frac{3}{56}\sqrt{59}e^4 \otimes e_9 - \frac{9}{56}\sqrt{5}e^5 \otimes e_8$	{1234567, 12689, 145, 2348, 2579, 4678}
94:10	$0, 0, 0, 0, 0, \frac{3}{56}\sqrt{23}e^{12}, \frac{3}{56}\sqrt{23}e^{13}, \frac{3}{56}\sqrt{43}e^{14},$ $\frac{3}{56}\sqrt{29}e^{15} + \frac{3}{28}\sqrt{7}e^{23}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56})$ $+\frac{3}{56}\sqrt{59}e^4 \otimes e_9 + \frac{9}{56}\sqrt{5}e^5 \otimes e_8$	{1234567, 12689, 145, 2348, 2579, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:10	$0, 0, 0, 0, 0, \frac{10}{1257}\sqrt{1030e^{12}}, \frac{50}{1257}\sqrt{21e^{13}}, \frac{5}{1257}\sqrt{2770e^{14}}, \frac{5}{1257}\sqrt{2710e^{15}} + \frac{5}{1257}\sqrt{1830e^{23}}$	$(-\frac{15}{419}, \frac{115}{1257}, \frac{35}{1257}, -\frac{170}{1257}, \frac{65}{419}, \frac{70}{1257}, -\frac{10}{1257}, -\frac{215}{1257}, \frac{50}{419}) + \frac{10}{1257}\sqrt{1010e^5} \otimes e_6 + \frac{10}{1257}\sqrt{705e^2} \otimes e_7 + \frac{5}{1257}\sqrt{5090e^1} \otimes e_4$	{1679, 246}
94:10	$0, 0, 0, 0, 0, \frac{5}{28}e^{12}, \frac{1}{28}\sqrt{29e^{13}}, \frac{1}{28}\sqrt{39e^{14}}, \frac{1}{28}\sqrt{29e^{15}} + \frac{1}{14}\sqrt{7e^{23}}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56}) + \frac{1}{14}\sqrt{7e^5} \otimes e_7 + \frac{1}{28}\sqrt{33e^4} \otimes e_6 + \frac{1}{28}\sqrt{47e^2} \otimes e_8$	{1356789, 168, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{100}{2981}\sqrt{105e^{12}}, \frac{80}{2981}\sqrt{15e^{13}}, \frac{30}{2981}\sqrt{1670e^{14}}, \frac{10}{2981}\sqrt{9915e^{15}} + \frac{20}{2981}\sqrt{2265e^{23}}$	$(\frac{476}{2981}, \frac{483}{2981}, -\frac{281}{2981}, -\frac{743}{2981}, \frac{274}{2981}, \frac{959}{2981}, \frac{195}{2981}, -\frac{267}{2981}, \frac{202}{2981}) + \frac{20}{2981}\sqrt{5730e^2} \otimes e_8 + \frac{30}{2981}\sqrt{1990e^1} \otimes e_5$	{12347, 168, 2356, 4578}
94:10	$0, 0, 0, 0, 0, \frac{9}{28}e^{12}, \frac{9}{28}e^{13}, \frac{3}{14}e^{14}, \frac{3}{56}\sqrt{30e^{15}} + \frac{3}{28}\sqrt{7e^{23}}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56}) + \frac{3}{56}\sqrt{14e^5} \otimes e_8 + \frac{3}{56}\sqrt{59e^2} \otimes e_7 + \frac{3}{56}\sqrt{59e^3} \otimes e_6$	{123, 167, 2469}
94:10	$0, 0, 0, 0, 0, \frac{6}{341}\sqrt{10e^{12}}, \frac{10}{341}\sqrt{51e^{13}}, \frac{2}{341}\sqrt{2190e^{14}}, \frac{6}{341}\sqrt{10e^{15}} + \frac{2}{341}\sqrt{2190e^{23}}$	$(-\frac{24}{341}, \frac{43}{341}, -\frac{36}{341}, \frac{37}{341}, \frac{1}{341}, \frac{19}{341}, -\frac{60}{341}, \frac{13}{341}, \frac{7}{341}) + \frac{2}{341}\sqrt{2370e^2} \otimes e_8 + \frac{2}{341}\sqrt{2370e^4} \otimes e_9$	{123467, 135789, 279, 45678}
94:10	$0, 0, 0, 0, 0, \frac{3}{92}\sqrt{287e^{12}}, \frac{3}{92}\sqrt{287e^{13}}, \frac{3}{46}\sqrt{133e^{14}}, \frac{3}{92}\sqrt{266e^{15}} + \frac{3}{46}\sqrt{133e^{23}}$	$(-\frac{3}{92}, -\frac{9}{184}, -\frac{9}{184}, \frac{27}{46}, -\frac{3}{46}, -\frac{15}{184}, -\frac{15}{184}, \frac{51}{92}, -\frac{9}{92}) + \frac{3}{92}\sqrt{1106e^4} \otimes e_9$	{1234567, 12689, 145, 2348, 2579, 4678}
94:10	$0, 0, 0, 0, 0, \frac{10}{2981}\sqrt{23358e^{12}}, \frac{6}{2981}\sqrt{16030e^{13}}, \frac{24}{2981}\sqrt{1603e^{14}}, \frac{2}{2981}\sqrt{338691e^{15}} + \frac{18}{2981}\sqrt{3206e^{23}}$	$(-\frac{608}{2981}, \frac{43}{271}, -\frac{293}{2981}, \frac{1239}{2981}, \frac{788}{2981}, -\frac{135}{2981}, -\frac{901}{2981}, \frac{631}{2981}, \frac{180}{2981}) + \frac{2}{2981}\sqrt{965922e^2} \otimes e_7 + \frac{32}{2981}\sqrt{3435e^4} \otimes e_6$	{1234, 1678, 269, 34789}
94:10	$0, 0, 0, 0, 0, \frac{14}{279}\sqrt{190e^{12}}, \frac{14}{279}\sqrt{190e^{13}}, \frac{2}{279}\sqrt{8246e^{14}}, \frac{14}{279}\sqrt{6251e^{15}} + \frac{8}{279}\sqrt{133e^{23}}$	$(\frac{4}{9}, -\frac{1}{31}, -\frac{1}{31}, -\frac{17}{279}, -\frac{142}{279}, \frac{115}{279}, \frac{115}{279}, \frac{107}{279}, -\frac{2}{31}) + \frac{2}{93}\sqrt{3458e^1} \otimes e_5$	{1247, 1278, 24568, 256}
94:10	$0, 0, 0, 0, 0, \frac{17}{596}\sqrt{141e^{12}}, \frac{17}{596}\sqrt{141e^{13}}, \frac{17}{596}\sqrt{26e^{14}}, \frac{17}{298}\sqrt{93e^{15}} + \frac{51}{298}\sqrt{5e^{23}}$	$(\frac{51}{596}, \frac{153}{1192}, \frac{153}{1192}, -\frac{119}{298}, \frac{51}{298}, \frac{255}{1192}, \frac{255}{1192}, -\frac{187}{596}, \frac{153}{596}) + \frac{17}{298}\sqrt{154e^1} \otimes e_4 + \frac{17}{596}\sqrt{462e^5} \otimes e_8$	{1257, 2345679, 459}
94:10	$0, 0, 0, 0, 0, \frac{14}{279}\sqrt{190e^{12}}, \frac{14}{279}\sqrt{190e^{13}}, \frac{8}{279}\sqrt{133e^{14}}, \frac{14}{279}\sqrt{6251e^{15}} + \frac{2}{279}\sqrt{8246e^{23}}$	$(-\frac{32}{279}, \frac{49}{93}, -\frac{29}{93}, \frac{61}{279}, \frac{92}{279}, \frac{115}{279}, -\frac{119}{279}, \frac{29}{279}, \frac{20}{93}) + \frac{2}{93}\sqrt{3458e^2} \otimes e_7$	{123, 12348, 14678, 167, 2469, 2689, 3479, 3789}
94:10	$0, 0, 0, 0, 0, \frac{8}{3605}\sqrt{37895e^{12}}, \frac{4}{3605}\sqrt{35563e^{13}}, \frac{2}{3605}\sqrt{570174e^{14}}, \frac{8}{3605}\sqrt{357379e^{15}} + \frac{4}{3605}\sqrt{18073e^{23}}$	$(\frac{52}{515}, -\frac{617}{3605}, \frac{179}{3605}, \frac{913}{3605}, -\frac{802}{3605}, -\frac{253}{3605}, \frac{543}{3605}, \frac{1277}{3605}, -\frac{438}{3605}) + \frac{2}{3605}\sqrt{999262e^1} \otimes e_5 + \frac{4}{3605}\sqrt{232034e^4} \otimes e_6$	{1247, 1368, 256, 34578}
94:10	$0, 0, 0, 0, 0, \frac{41}{4725}\sqrt{1598e^{12}}, \frac{82}{4725}\sqrt{23e^{13}}, \frac{82}{315}\sqrt{2e^{14}}, \frac{41}{675}\sqrt{6e^{15}} + \frac{82}{4725}\sqrt{202e^{23}}$	$(-\frac{41}{175}, \frac{41}{315}, \frac{41}{4725}, \frac{1189}{4725}, \frac{1763}{4725}, -\frac{164}{1575}, -\frac{1066}{4725}, \frac{82}{4725}, \frac{656}{4725}) + \frac{1066}{4725}\sqrt{5e^4} \otimes e_6 + \frac{41}{4725}\sqrt{2434e^5} \otimes e_8 + \frac{41}{4725}\sqrt{2838e^2} \otimes e_7$	{12459, 2356}
94:10	$0, 0, 0, 0, 0, \frac{3}{56}\sqrt{29e^{12}}, \frac{3}{56}\sqrt{23e^{13}}, \frac{3}{56}\sqrt{43e^{14}}, \frac{3}{56}\sqrt{23e^{15}} + \frac{3}{28}\sqrt{7e^{23}}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{3}{112}, \frac{5}{56}, \frac{31}{112}, -\frac{1}{14}, -\frac{15}{112}, -\frac{1}{14}, \frac{13}{112}) + \frac{3}{56}\sqrt{59e^2} \otimes e_8 + \frac{9}{56}\sqrt{5e^4} \otimes e_6$	{12347, 12459, 1356789, 168, 2356, 2679, 3489, 4578}
94:10	$0, 0, 0, 0, 0, \frac{1}{731}\sqrt{100110e^{12}}, \frac{1}{731}\sqrt{100110e^{13}}, \frac{47}{731}\sqrt{30e^{14}}, \frac{1}{731}\sqrt{26790e^{15}} + \frac{1}{731}\sqrt{17390e^{23}}$	$(\frac{77}{731}, \frac{196}{731}, -\frac{116}{731}, -\frac{158}{731}, \frac{3}{731}, \frac{273}{731}, -\frac{39}{731}, -\frac{81}{731}, \frac{80}{731}) + \frac{1}{731}\sqrt{168730e^1} \otimes e_4 + \frac{4}{731}\sqrt{9165e^2} \otimes e_7$	{1239, 1679, 246, 347}
94:10	$0, 0, 0, 0, 0, \frac{7}{775}\sqrt{1578e^{12}}, \frac{14}{775}\sqrt{123e^{13}}, \frac{21}{775}\sqrt{114e^{14}}, \frac{7}{775}\sqrt{41e^{15}} + \frac{21}{775}\sqrt{114e^{23}}$	$(-\frac{7}{775}, -\frac{14}{775}, \frac{133}{775}, -\frac{154}{775}, \frac{126}{775}, -\frac{21}{775}, \frac{126}{775}, -\frac{161}{775}, \frac{119}{775}) + \frac{14}{775}\sqrt{51e^2} \otimes e_8 + \frac{21}{775}\sqrt{246e^1} \otimes e_4 + \frac{28}{775}\sqrt{123e^5} \otimes e_6$	{1257, 246}
94:11	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{2e^{12}}, \frac{2}{11}\sqrt{2e^{13}}, \frac{4}{11}e^{24}, \frac{2}{11}\sqrt{2e^{15}} + \frac{2}{11}\sqrt{3e^{23}}$	$(\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11}, 0) + \frac{2}{11}\sqrt{6e^1} \otimes e_8 + \frac{4}{11}e^4 \otimes e_6$	{12349, 12457, 1356, 1679, 2356789, 268, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{1}{57}\sqrt{165e^{12}}, \frac{2}{57}\sqrt{165e^{13}}, \frac{5}{57}\sqrt{33e^{24}}, \frac{1}{57}\sqrt{165e^{15}} + \frac{1}{57}\sqrt{627e^{23}}$	$(-\frac{16}{57}, \frac{1}{57}, \frac{2}{19}, \frac{6}{19}, \frac{23}{57}, -\frac{5}{19}, -\frac{10}{57}, \frac{1}{3}, \frac{7}{57}) + \frac{1}{57}\sqrt{1749e^5} \otimes e_7 + \frac{4}{19}\sqrt{11e^4} \otimes e_6$	{1356, 1679, 3478, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:11	$0, 0, 0, 0, 0, \frac{2}{3617}\sqrt{619161e^{12}}, \frac{18}{3617}\sqrt{6265e^{13}}, \frac{8}{3617}\sqrt{13962e^{24}},$ $\frac{2}{3617}\sqrt{392547e^{15}} + \frac{12}{3617}\sqrt{5370e^{23}}$	$(\frac{484}{3617}, -\frac{832}{3617}, \frac{726}{3617}, \frac{681}{3617}, -\frac{590}{3617}, -\frac{348}{3617}, \frac{1210}{3617}, -\frac{151}{3617}, -\frac{106}{3617})$ $+ \frac{2}{3617}\sqrt{851682e^1} \otimes e_5 + \frac{2}{3617}\sqrt{948342e^3} \otimes e_6$	{123, 12348, 1467, 1678}
94:11	$0, 0, 0, 0, 0, \frac{10}{717}\sqrt{763e^{12}}, \frac{2}{717}\sqrt{22999e^{13}}, \frac{4}{239}\sqrt{218e^{24}},$ $\frac{2}{717}\sqrt{12535e^{15}} + \frac{4}{717}\sqrt{654e^{23}}$	$(\frac{32}{239}, \frac{48}{239}, -\frac{170}{717}, -\frac{7}{717}, -\frac{122}{717}, \frac{80}{239}, -\frac{74}{717}, \frac{137}{717}, -\frac{26}{717})$ $+ \frac{10}{717}\sqrt{1526e^2} \otimes e_7 + \frac{2}{717}\sqrt{32918e^1} \otimes e_5$	{1234, 1238, 14678, 167}
94:11	$0, 0, 0, 0, 0, \frac{2}{39}\sqrt{3e^{12}}, \frac{1}{13}\sqrt{2e^{13}}, \frac{1}{39}\sqrt{66e^{24}},$ $\frac{1}{39}\sqrt{78e^{15}} + \frac{1}{39}\sqrt{30e^{23}}$	$(\frac{1}{39}, -\frac{5}{39}, \frac{5}{39}, \frac{1}{13}, -\frac{1}{39}, -\frac{4}{39}, \frac{2}{13}, -\frac{2}{39}, 0)$ $+ \frac{1}{13}\sqrt{6e^5} \otimes e_6 + \frac{1}{39}\sqrt{66e^4} \otimes e_9 + \frac{4}{39}\sqrt{6e^1} \otimes e_8$	{12457, 1679}
94:11	$0, 0, 0, 0, 0, \frac{2}{2965}\sqrt{31726e^{12}}, \frac{4}{2965}\sqrt{163553e^{13}}, \frac{2}{2965}\sqrt{412438e^{24}},$ $\frac{4}{2965}\sqrt{20786e^{15}} + \frac{46}{2965}\sqrt{547e^{23}}$	$(\frac{341}{2965}, -\frac{14}{2965}, -\frac{398}{2965}, \frac{1037}{2965}, -\frac{753}{2965}, \frac{327}{2965}, -\frac{57}{2965}, \frac{1023}{2965}, -\frac{412}{2965})$ $+ \frac{2}{2965}\sqrt{642178e^1} \otimes e_5 + \frac{2}{2965}\sqrt{832534e^4} \otimes e_7$	{1278, 13468, 2456, 357}
94:11	$0, 0, 0, 0, 0, \frac{10}{101}\sqrt{2e^{12}}, \frac{5}{101}\sqrt{6e^{13}}, \frac{5}{101}\sqrt{42e^{24}},$ $\frac{5}{101}\sqrt{34e^{15}} + \frac{5}{101}\sqrt{22e^{23}}$	$(-\frac{15}{101}, \frac{5}{101}, -\frac{5}{101}, \frac{25}{101}, \frac{15}{101}, -\frac{10}{101}, -\frac{20}{101}, \frac{30}{101}, 0)$ $+ \frac{40}{101}e^2 \otimes e_7 + \frac{5}{101}\sqrt{46e^5} \otimes e_6 + \frac{5}{101}\sqrt{74e^4} \otimes e_9$	{12345, 3579}
94:11	$0, 0, 0, 0, 0, \frac{30}{2093}\sqrt{53e^{12}}, \frac{5}{2093}\sqrt{534e^{13}}, \frac{10}{2093}\sqrt{687e^{24}},$ $\frac{5}{2093}\sqrt{2926e^{15}} + \frac{10}{2093}\sqrt{159e^{23}}$	$(-\frac{95}{2093}, \frac{45}{2093}, -\frac{25}{2093}, \frac{45}{2093}, \frac{5}{91}, -\frac{50}{2093}, -\frac{120}{2093}, \frac{90}{2093}, \frac{20}{2093})$ $+ \frac{15}{2093}\sqrt{318e^5} \otimes e_8 + \frac{20}{2093}\sqrt{159e^4} \otimes e_9 + \frac{5}{2093}\sqrt{1514e^3} \otimes e_6$	{1236789, 3468}
94:11	$0, 0, 0, 0, 0, \frac{1}{888}\sqrt{125095e^{12}}, \frac{1}{444}\sqrt{1182e^{13}}, \frac{1}{888}\sqrt{76830e^{24}},$ $\frac{1}{888}\sqrt{78406e^{15}} + \frac{1}{888}\sqrt{125095e^{23}}$	$(-\frac{161}{1776}, \frac{13}{444}, \frac{95}{592}, -\frac{57}{296}, \frac{83}{296}, -\frac{109}{1776}, \frac{31}{444}, -\frac{145}{888}, \frac{337}{1776})$ $+ \frac{1}{111}\sqrt{2561e^2} \otimes e_4 + \frac{1}{444}\sqrt{41567e^3} \otimes e_6$	{123, 1467, 269, 3479}
94:11	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1419e^{12}}, \frac{11}{97}\sqrt{6e^{13}}, \frac{3}{97}\sqrt{187e^{24}},$ $\frac{1}{97}\sqrt{2310e^{15}} + \frac{1}{97}\sqrt{165e^{23}}$	$(-\frac{15}{97}, \frac{3}{97}, -\frac{4}{97}, \frac{32}{97}, \frac{14}{97}, -\frac{12}{97}, -\frac{19}{97}, \frac{35}{97}, -\frac{1}{97})$ $+ \frac{12}{97}\sqrt{22e^4} \otimes e_9 + \frac{1}{97}\sqrt{2607e^5} \otimes e_7$	{123456, 126789, 2347, 2589}
94:11	$0, 0, 0, 0, 0, \frac{5}{281}\sqrt{2093e^{12}}, \frac{13}{281}\sqrt{115e^{13}}, \frac{2}{281}\sqrt{598e^{24}},$ $\frac{3}{281}\sqrt{5681e^{15}} + \frac{2}{281}\sqrt{18239e^{23}}$	$(-\frac{191}{562}, -\frac{8}{281}, \frac{108}{281}, \frac{49}{281}, \frac{391}{562}, -\frac{207}{562}, \frac{25}{281}, \frac{41}{281}, \frac{100}{281})$ $+ \frac{2}{281}\sqrt{35282e^5} \otimes e_6$	{12458, 125, 1469, 1689, 24678, 267, 4579, 5789}
94:11	$0, 0, 0, 0, 0, \frac{1}{304}\sqrt{2955e^{12}}, \frac{1}{304}\sqrt{5910e^{13}}, \frac{1}{304}\sqrt{24034e^{24}},$ $\frac{1}{152}\sqrt{6501e^{15}} + \frac{1}{304}\sqrt{2955e^{23}}$	$(-\frac{45}{608}, \frac{33}{152}, \frac{87}{608}, -\frac{131}{304}, \frac{33}{76}, \frac{87}{608}, \frac{21}{304}, -\frac{65}{304}, \frac{219}{608})$ $+ \frac{1}{152}\sqrt{10441e^2} \otimes e_4 + \frac{9}{152}\sqrt{197e^5} \otimes e_8$	{1289, 1346789, 2368, 478}
94:11	$0, 0, 0, 0, 0, \frac{7}{221}\sqrt{155e^{12}}, \frac{14}{221}\sqrt{2e^{13}}, \frac{7}{221}\sqrt{95e^{24}},$ $\frac{28}{221}\sqrt{6e^{15}} + \frac{7}{221}\sqrt{155e^{23}}$	$(-\frac{21}{221}, \frac{7}{221}, \frac{35}{221}, -\frac{42}{221}, \frac{63}{221}, -\frac{14}{221}, \frac{14}{221}, -\frac{35}{221}, \frac{42}{221})$ $+ \frac{14}{221}\sqrt{51e^2} \otimes e_4 + \frac{28}{221}\sqrt{13e^3} \otimes e_6 + \frac{7}{221}\sqrt{5e^5} \otimes e_7$	{1467, 3479}
94:11	$0, 0, 0, 0, 0, \frac{6}{3197}\sqrt{24258e^{12}}, \frac{312}{3197}\sqrt{6e^{13}}, \frac{12}{3197}\sqrt{7293e^{24}},$ $\frac{38}{3197}\sqrt{1079e^{15}} + \frac{6}{3197}\sqrt{32331e^{23}}$	$(\frac{3}{3197}, -\frac{246}{3197}, \frac{708}{3197}, -\frac{453}{3197}, \frac{459}{3197}, -\frac{243}{3197}, \frac{711}{3197}, -\frac{699}{3197}, \frac{462}{3197})$ $+ \frac{12}{3197}\sqrt{11310e^5} \otimes e_6 + \frac{78}{3197}\sqrt{402e^1} \otimes e_8$	{12457, 1679, 268, 4589}
94:11	$0, 0, 0, 0, 0, \frac{106}{3701}\sqrt{51e^{12}}, \frac{4}{3701}\sqrt{63282e^{13}}, \frac{10}{3701}\sqrt{9858e^{24}},$ $\frac{6}{3701}\sqrt{2226e^{15}} + \frac{24}{3701}\sqrt{53e^{23}}$	$(-\frac{300}{3701}, -\frac{336}{3701}, \frac{427}{3701}, \frac{445}{3701}, \frac{391}{3701}, -\frac{636}{3701}, \frac{127}{3701}, \frac{109}{3701}, \frac{91}{3701})$ $+ \frac{2}{3701}\sqrt{271254e^3} \otimes e_8 + \frac{2}{3701}\sqrt{275070e^4} \otimes e_7$	{1234569, 12678, 3567, 4689}
94:11	$0, 0, 0, 0, 0, \frac{20}{3069}\sqrt{23e^{12}}, \frac{20}{3069}\sqrt{115e^{13}}, \frac{10}{3069}\sqrt{28014e^{24}},$ $\frac{40}{3069}\sqrt{1173e^{15}} + \frac{10}{3069}\sqrt{13547e^{23}}$	$(-\frac{61}{341}, -\frac{38}{341}, \frac{860}{3069}, \frac{259}{3069}, \frac{97}{279}, -\frac{9}{31}, \frac{311}{3069}, -\frac{83}{3069}, \frac{518}{3069})$ $+ \frac{10}{3069}\sqrt{27278e^4} \otimes e_6 + \frac{20}{3069}\sqrt{9154e^5} \otimes e_8$	{12457, 1356, 268, 3478}
94:11	$0, 0, 0, 0, 0, \frac{3}{47}\sqrt{5e^{12}}, \frac{1}{47}\sqrt{138e^{13}}, \frac{3}{47}\sqrt{15e^{24}},$ $\frac{1}{47}\sqrt{138e^{15}} + \frac{1}{47}\sqrt{141e^{23}}$	$(-\frac{2}{47}, -\frac{1}{47}, \frac{5}{47}, -\frac{4}{47}, \frac{6}{47}, -\frac{3}{47}, \frac{3}{47}, -\frac{5}{47}, \frac{4}{47})$ $+ \frac{2}{47}\sqrt{21e^2} \otimes e_4 + \frac{7}{47}\sqrt{3e^5} \otimes e_7 + \frac{8}{47}\sqrt{3e^1} \otimes e_8$	{135, 179}
94:11	$0, 0, 0, 0, 0, \frac{6}{3533}\sqrt{754e^{12}}, \frac{26}{3533}\sqrt{318e^{13}}, \frac{24}{3533}\sqrt{429e^{24}},$ $\frac{6}{3533}\sqrt{2678e^{15}} + \frac{2}{3533}\sqrt{40755e^{23}}$	$(\frac{191}{3533}, -\frac{94}{3533}, -\frac{62}{3533}, \frac{207}{3533}, -\frac{347}{3533}, \frac{97}{3533}, \frac{129}{3533}, \frac{113}{3533}, -\frac{156}{3533})$ $+ \frac{26}{3533}\sqrt{402e^1} \otimes e_8 + \frac{8}{3533}\sqrt{3705e^4} \otimes e_7$	{123469, 179, 235789, 45689}
94:11	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{2e^{12}}, \frac{2}{11}\sqrt{2e^{13}}, \frac{4}{11}e^{24},$ $\frac{2}{11}\sqrt{2e^{15}} + \frac{2}{11}\sqrt{3e^{23}}$	$(\frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, -\frac{1}{11}, 0)$ $+ \frac{2}{11}\sqrt{6e^1} \otimes e_8 - \frac{4}{11}e^4 \otimes e_6$	{12349, 12457, 1356, 1679, 2356789, 268, 3478, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:11	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{301}e^{12}, \frac{1}{89}\sqrt{989}e^{13}, \frac{4}{89}\sqrt{43}e^{24},$ $\frac{1}{89}\sqrt{903}e^{15} + \frac{1}{89}\sqrt{2193}e^{23}$	$(\frac{9}{178}, \frac{8}{89}, \frac{16}{89}, -\frac{35}{89}, \frac{39}{178}, \frac{25}{178}, \frac{41}{178}, -\frac{27}{89}, \frac{24}{89})$ $+ \frac{2}{89}\sqrt{946}e^3 \otimes e_8 + \frac{6}{89}\sqrt{86}e^2 \otimes e_4$	{125789, 14678, 2689, 458}
94:11	$0, 0, 0, 0, 0, \frac{4}{127}\sqrt{290}e^{12}, \frac{58}{381}\sqrt{6}e^{13}, \frac{2}{381}\sqrt{4002}e^{24},$ $\frac{2}{127}\sqrt{290}e^{15} + \frac{2}{381}\sqrt{4611}e^{23}$	$(\frac{21}{127}, -\frac{26}{127}, \frac{10}{127}, \frac{53}{127}, -\frac{37}{127}, -\frac{5}{127}, \frac{31}{127}, \frac{27}{127}, -\frac{16}{127})$ $+ \frac{2}{381}\sqrt{14790}e^4 \otimes e_6 + \frac{8}{381}\sqrt{957}e^1 \otimes e_5$	{1247, 136, 2568, 34578}
94:11	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{119}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{1}{67}\sqrt{658}e^{24},$ $\frac{2}{67}\sqrt{70}e^{15} + \frac{3}{67}\sqrt{42}e^{23}$	$(\frac{3}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{4}{67}, -\frac{11}{67}, \frac{16}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{1}{67}\sqrt{854}e^3 \otimes e_8 + \frac{1}{67}\sqrt{854}e^4 \otimes e_9$	{123456, 126789, 139, 14578, 2347, 2589, 35679, 468}
94:11	$0, 0, 0, 0, 0, \frac{2}{67}\sqrt{119}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{1}{67}\sqrt{658}e^{24},$ $\frac{2}{67}\sqrt{70}e^{15} + \frac{3}{67}\sqrt{42}e^{23}$	$(\frac{3}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{4}{67}, -\frac{11}{67}, \frac{16}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{1}{67}\sqrt{854}e^3 \otimes e_8 - \frac{1}{67}\sqrt{854}e^4 \otimes e_9$	{123456, 126789, 139, 14578, 2347, 2589, 35679, 468}
94:11	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{12}, \frac{1}{3}\sqrt{6}e^{13}, \frac{1}{3}\sqrt{3}e^{24},$ $\frac{1}{3}\sqrt{6}e^{15} + \frac{1}{3}\sqrt{3}e^{23}$	$(-\frac{1}{3}, \frac{1}{3}, 0, 0, \frac{2}{3}, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^5 \otimes e_7$	{13458, 135, 14789, 179, 34678, 367, 45689, 569}
94:11	$0, 0, 0, 0, 0, \frac{1}{588}\sqrt{9399}e^{12}, \frac{1}{588}\sqrt{40970}e^{13}, \frac{1}{588}\sqrt{100738}e^{24},$ $\frac{1}{42}\sqrt{241}e^{15} + \frac{1}{588}\sqrt{9399}e^{23}$	$(-\frac{65}{392}, \frac{12}{49}, \frac{1}{1176}, -\frac{143}{588}, \frac{121}{294}, \frac{31}{392}, -\frac{97}{588}, \frac{1}{588}, \frac{289}{1176})$ $+ \frac{1}{147}\sqrt{7471}e^2 \otimes e_7 + \frac{1}{294}\sqrt{33017}e^5 \otimes e_8$	{123689, 14789, 28, 34678}
94:11	$0, 0, 0, 0, 0, \frac{4}{739}\sqrt{4191}e^{12}, \frac{2}{739}\sqrt{25527}e^{13}, \frac{2}{739}\sqrt{17526}e^{24},$ $\frac{2}{739}\sqrt{9017}e^{15} + \frac{2}{739}\sqrt{8509}e^{23}$	$(\frac{75}{739}, -\frac{122}{739}, \frac{207}{739}, -\frac{57}{739}, \frac{10}{739}, -\frac{47}{739}, \frac{282}{739}, -\frac{179}{739}, \frac{85}{739})$ $+ \frac{2}{739}\sqrt{50546}e^1 \otimes e_8 + \frac{4}{739}\sqrt{8255}e^3 \otimes e_6$	{12349, 1679, 268, 3478}
94:11	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{13}e^{12}, \frac{4}{25}\sqrt{7}e^{13}, \frac{2}{25}\sqrt{19}e^{24},$ $\frac{2}{25}\sqrt{6}e^{15} + \frac{6}{25}e^{23}$	$(-\frac{3}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{1}{25}, -\frac{4}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{14}e^2 \otimes e_4 + \frac{2}{25}\sqrt{33}e^5 \otimes e_7 + \frac{4}{25}\sqrt{11}e^3 \otimes e_8$	{126789, 2589}
94:11	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{14}e^{12}, \frac{1}{28}\sqrt{14}e^{13}, \frac{1}{56}\sqrt{70}e^{24},$ $\frac{1}{28}\sqrt{14}e^{15} + \frac{1}{28}\sqrt{15}e^{23}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{14}{56}, \frac{3}{56})$ $+ \frac{1}{28}\sqrt{15}e^5 \otimes e_7 + \frac{1}{56}\sqrt{102}e^1 \otimes e_8 + \frac{1}{56}\sqrt{46}e^4 \otimes e_6$	{1356, 1679, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{30191}e^{12}, \frac{1}{289}\sqrt{7491}e^{13}, \frac{10}{289}\sqrt{454}e^{24},$ $\frac{1}{289}\sqrt{47897}e^{15} + \frac{1}{289}\sqrt{25197}e^{23}$	$(\frac{45}{578}, -\frac{44}{289}, \frac{6}{289}, \frac{189}{289}, -\frac{121}{578}, -\frac{43}{578}, \frac{57}{578}, \frac{145}{289}, -\frac{38}{289})$ $+ \frac{2}{289}\sqrt{27694}e^4 \otimes e_9$	{1234567, 12689, 1379, 1458, 234, 25789, 3569, 4678}
94:11	$0, 0, 0, 0, 0, \frac{22}{637}\sqrt{74}e^{12}, \frac{11}{637}\sqrt{314}e^{13}, \frac{66}{637}e^{24},$ $\frac{11}{637}\sqrt{266}e^{15} + \frac{22}{637}\sqrt{74}e^{23}$	$(-\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, -\frac{88}{637}, \frac{66}{637}, \frac{66}{637})$ $- \frac{11}{637}\sqrt{574}e^3 \otimes e_6 + \frac{11}{637}\sqrt{6}e^5 \otimes e_8 + \frac{44}{637}\sqrt{37}e^2 \otimes e_7$	{1238, 14678, 2689, 34789}
94:11	$0, 0, 0, 0, 0, \frac{1}{367}\sqrt{44715}e^{12}, \frac{11}{367}\sqrt{165}e^{13}, \frac{18}{367}\sqrt{55}e^{24},$ $\frac{1}{367}\sqrt{715}e^{15} + \frac{11}{367}\sqrt{2035}e^{23}$	$(-\frac{131}{734}, \frac{70}{367}, \frac{34}{367}, -\frac{95}{367}, \frac{339}{734}, \frac{9}{734}, -\frac{63}{734}, -\frac{25}{367}, \frac{104}{367})$ $+ \frac{2}{367}\sqrt{14685}e^2 \otimes e_4 + \frac{40}{367}\sqrt{33}e^5 \otimes e_6$	{12357, 134679, 236, 3459}
94:11	$0, 0, 0, 0, 0, \frac{22}{3561}\sqrt{4030}e^{12}, \frac{110}{3561}\sqrt{105}e^{13}, \frac{44}{3561}\sqrt{1115}e^{24},$ $\frac{22}{3561}\sqrt{1765}e^{15} + \frac{22}{3561}\sqrt{395}e^{23}$	$(-\frac{209}{1187}, \frac{110}{1187}, -\frac{253}{3561}, \frac{913}{3561}, \frac{704}{3561}, -\frac{99}{1187}, -\frac{880}{3561}, \frac{1243}{3561}, \frac{77}{3561})$ $+ \frac{22}{3561}\sqrt{7270}e^4 \otimes e_6 + \frac{44}{3561}\sqrt{2195}e^2 \otimes e_7$	{1234, 167, 2689, 34789}
94:11	$0, 0, 0, 0, 0, \frac{4}{937}\sqrt{4895}e^{12}, \frac{4}{937}\sqrt{5162}e^{13}, \frac{4}{937}\sqrt{534}e^{24},$ $\frac{4}{937}\sqrt{17711}e^{15} + \frac{4}{937}\sqrt{4895}e^{23}$	$(-\frac{178}{937}, \frac{48}{937}, \frac{48}{937}, \frac{51}{937}, \frac{274}{937}, -\frac{130}{937}, -\frac{130}{937}, \frac{99}{937}, \frac{96}{937})$ $+ \frac{10}{937}\sqrt{1513}e^3 \otimes e_6 + \frac{2}{937}\sqrt{38893}e^2 \otimes e_7$	{1234, 1238, 14678, 167, 2469, 2689, 34789, 379}
94:11	$0, 0, 0, 0, 0, \frac{66}{2989}\sqrt{65}e^{12}, \frac{55}{2989}\sqrt{138}e^{13}, \frac{66}{2989}\sqrt{89}e^{24},$ $\frac{33}{2989}\sqrt{82}e^{15} + \frac{22}{2989}\sqrt{31}e^{23}$	$(\frac{33}{2989}, -\frac{275}{2989}, \frac{187}{2989}, \frac{341}{2989}, -\frac{121}{2989}, -\frac{242}{2989}, \frac{220}{2989}, \frac{66}{2989}, -\frac{88}{2989})$ $+ \frac{11}{2989}\sqrt{1418}e^5 \otimes e_6 + \frac{22}{2989}\sqrt{862}e^4 \otimes e_7 + \frac{33}{2989}\sqrt{390}e^3 \otimes e_8$	{1256789, 4568}
94:11	$0, 0, 0, 0, 0, \frac{17}{5341}\sqrt{1902}e^{12}, \frac{68}{5341}\sqrt{10}e^{13}, \frac{34}{5341}\sqrt{1031}e^{24},$ $\frac{17}{5341}\sqrt{3542}e^{15} + \frac{34}{5341}\sqrt{53}e^{23}$	$(-\frac{527}{5341}, -\frac{51}{5341}, \frac{187}{5341}, \frac{425}{5341}, \frac{663}{5341}, -\frac{578}{5341}, -\frac{340}{5341}, \frac{374}{5341}, \frac{136}{5341})$ $+ \frac{17}{5341}\sqrt{1586}e^2 \otimes e_7 + \frac{34}{5341}\sqrt{1057}e^4 \otimes e_9 + \frac{51}{5341}\sqrt{458}e^5 \otimes e_8$	{123456, 35679}
94:11	$0, 0, 0, 0, 0, \frac{1}{1673}\sqrt{283}e^{12}, \frac{12}{1673}\sqrt{5}e^{13}, \frac{1}{1673}\sqrt{1073}e^{24},$ $\frac{1}{1673}\sqrt{286}e^{15} + \frac{1}{1673}\sqrt{523}e^{23}$	$(-\frac{8}{1673}, -\frac{15}{1673}, \frac{20}{1673}, \frac{6}{1673}, \frac{13}{1673}, -\frac{23}{1673}, \frac{12}{1673}, -\frac{9}{1673}, \frac{5}{1673})$ $+ \frac{1}{1673}\sqrt{933}e^5 \otimes e_7 + \frac{4}{1673}\sqrt{53}e^4 \otimes e_9 + \frac{4}{1673}\sqrt{83}e^1 \otimes e_8$	{179, 34678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:11	$0, 0, 0, 0, 0, \frac{11}{1911}\sqrt{942}e^{12}, \frac{44}{1911}\sqrt{69}e^{13}, \frac{22}{1911}\sqrt{942}e^{24},$ $\frac{55}{1911}\sqrt{42}e^{15} + \frac{22}{1911}\sqrt{195}e^{23}$	$(-\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, -\frac{88}{637}, \frac{66}{637}, \frac{66}{637})$ $+ \frac{11}{1911}\sqrt{3498}e^5 \otimes e_8 + \frac{11}{1911}\sqrt{3606}e^2 \otimes e_7 + \frac{22}{1911}\sqrt{861}e^4 \otimes e_6$	{268, 3478}
94:11	$0, 0, 0, 0, 0, \frac{19}{1393}\sqrt{291}e^{12}, \frac{304}{1393}\sqrt{3}e^{13}, \frac{19}{1393}\sqrt{753}e^{24},$ $\frac{114}{1393}\sqrt{6}e^{15} + \frac{19}{1393}\sqrt{35}e^{23}$	$(-\frac{228}{1393}, -\frac{95}{1393}, \frac{304}{1393}, \frac{38}{1393}, \frac{437}{1393}, -\frac{323}{1393}, \frac{76}{1393}, -\frac{57}{1393}, \frac{209}{1393})$ $+ \frac{19}{1393}\sqrt{853}e^5 \otimes e_7 + \frac{76}{1393}\sqrt{37}e^4 \otimes e_6 + \frac{76}{1393}\sqrt{69}e^3 \otimes e_8$	{14789, 367}
94:11	$0, 0, 0, 0, 0, \frac{2}{2593}\sqrt{400289}e^{12}, \frac{2}{2593}\sqrt{161291}e^{13}, \frac{2}{2593}\sqrt{186758}e^{24},$ $\frac{6}{2593}\sqrt{8489}e^{15} + \frac{4}{2593}\sqrt{16978}e^{23}$	$(-\frac{680}{2593}, \frac{572}{2593}, -\frac{54}{2593}, \frac{11}{2593}, \frac{1198}{2593}, -\frac{108}{2593}, \frac{734}{2593}, \frac{583}{2593}, \frac{518}{2593})$ $+ \frac{2}{2593}\sqrt{664754}e^5 \otimes e_6 + \frac{6}{2593}\sqrt{92726}e^2 \otimes e_7$	{12345, 12358, 345789, 3579}
94:11	$0, 0, 0, 0, 0, \frac{1}{296}\sqrt{23655}e^{12}, \frac{9}{296}\sqrt{498}e^{13}, \frac{1}{296}\sqrt{33366}e^{24},$ $\frac{3}{148}\sqrt{581}e^{15} + \frac{1}{296}\sqrt{23655}e^{23}$	$(-\frac{73}{592}, \frac{67}{148}, -\frac{157}{592}, -\frac{17}{296}, \frac{23}{74}, \frac{195}{592}, -\frac{115}{296}, \frac{117}{296}, \frac{3}{16})$ $+ \frac{3}{148}\sqrt{3403}e^2 \otimes e_7$	{1234, 1238, 14678, 167, 2469, 2689, 34789, 379}
94:11	$0, 0, 0, 0, 0, \frac{5}{281}\sqrt{2093}e^{12}, \frac{3}{281}\sqrt{5681}e^{13}, \frac{2}{281}\sqrt{598}e^{24},$ $\frac{13}{281}\sqrt{115}e^{15} + \frac{1}{281}\sqrt{18239}e^{23}$	$(\frac{1}{2}, -\frac{8}{281}, -\frac{10}{281}, \frac{49}{281}, -\frac{317}{562}, \frac{265}{562}, \frac{261}{562}, \frac{41}{281}, -\frac{18}{281})$ $+ \frac{2}{281}\sqrt{35282}e^1 \otimes e_5$	{12478, 127, 1346, 1368, 24568, 256, 3457, 3578}
94:11	$0, 0, 0, 0, 0, \frac{9}{227}\sqrt{3}e^{12}, \frac{6}{227}\sqrt{111}e^{13}, \frac{3}{227}\sqrt{417}e^{24},$ $\frac{6}{227}\sqrt{111}e^{15} + \frac{9}{227}\sqrt{43}e^{23}$	$(-\frac{4}{227}, \frac{19}{227}, \frac{10}{227}, -\frac{50}{227}, \frac{33}{227}, \frac{15}{227}, \frac{6}{227}, -\frac{31}{227}, \frac{29}{227})$ $+ \frac{15}{227}\sqrt{21}e^5 \otimes e_7 + \frac{36}{227}\sqrt{5}e^1 \otimes e_8$	{135, 179, 34678, 45689}
94:11	$0, 0, 0, 0, 0, \frac{9}{1223}\sqrt{1698}e^{12}, \frac{9}{1223}\sqrt{534}e^{13}, \frac{9}{1223}\sqrt{1122}e^{24},$ $\frac{378}{1223}e^{15} + \frac{126}{1223}\sqrt{6}e^{23}$	$(-\frac{18}{1223}, -\frac{9}{1223}, \frac{207}{1223}, -\frac{252}{1223}, \frac{216}{1223}, -\frac{27}{1223}, \frac{189}{1223}, -\frac{261}{1223}, \frac{198}{1223})$ $+ \frac{18}{1223}\sqrt{615}e^5 \otimes e_6 + \frac{18}{1223}\sqrt{822}e^1 \otimes e_8 + \frac{27}{1223}\sqrt{110}e^2 \otimes e_4$	{268, 4589}
94:11	$0, 0, 0, 0, 0, \frac{8}{287}\sqrt{785}e^{12}, \frac{2}{287}\sqrt{314}e^{13}, \frac{2}{287}\sqrt{12874}e^{24},$ $\frac{1}{287}\sqrt{314}e^{15} + \frac{2}{287}\sqrt{6123}e^{23}$	$(-\frac{5}{41}, -\frac{74}{287}, \frac{86}{287}, \frac{5}{7}, \frac{47}{287}, -\frac{109}{287}, \frac{51}{287}, \frac{131}{287}, \frac{12}{287})$ $+ \frac{2}{287}\sqrt{37366}e^4 \otimes e_6$	{12349, 12457, 1356, 1679, 2356789, 268, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1463}e^{12}, \frac{1}{215}\sqrt{4389}e^{13}, \frac{2}{215}\sqrt{2926}e^{24},$ $\frac{7}{215}\sqrt{209}e^{15} + \frac{1}{215}\sqrt{4389}e^{23}$	$(\frac{99}{430}, -\frac{28}{215}, -\frac{6}{215}, \frac{99}{215}, -\frac{167}{430}, \frac{1}{10}, \frac{87}{430}, \frac{71}{215}, -\frac{34}{215})$ $+ \frac{12}{215}\sqrt{133}e^1 \otimes e_5 + \frac{10}{215}\sqrt{7714}e^4 \otimes e_9$	{126789, 139, 2589, 35679}
94:11	$0, 0, 0, 0, 0, \frac{44}{2785}\sqrt{129}e^{12}, \frac{2}{2785}\sqrt{127237}e^{13}, \frac{2}{2785}\sqrt{379346}e^{24},$ $\frac{2}{2785}\sqrt{148049}e^{15} + \frac{2}{2785}\sqrt{241703}e^{23}$	$(-\frac{149}{2785}, \frac{318}{2785}, -\frac{479}{2785}, \frac{157}{557}, -\frac{12}{2785}, \frac{169}{2785}, -\frac{628}{2785}, \frac{1103}{2785}, -\frac{161}{2785})$ $+ \frac{2}{2785}\sqrt{566654}e^2 \otimes e_7 + \frac{2}{2785}\sqrt{608278}e^4 \otimes e_9$	{123456, 14578, 2589, 35679}
94:11	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{28}\sqrt{14}e^{13}, \frac{1}{56}\sqrt{70}e^{24},$ $\frac{1}{28}\sqrt{14}e^{15} + \frac{1}{28}\sqrt{15}e^{23}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56})$ $+ \frac{1}{28}\sqrt{15}e^5 \otimes e_7 + \frac{1}{56}\sqrt{102}e^1 \otimes e_8 - \frac{1}{56}\sqrt{46}e^4 \otimes e_6$	{1356, 1679, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{4}{91}\sqrt{21}e^{12}, \frac{6}{91}\sqrt{21}e^{13}, \frac{2}{91}\sqrt{210}e^{24},$ $\frac{6}{91}\sqrt{7}e^{15} + \frac{2}{91}\sqrt{77}e^{23}$	$(\frac{1}{13}, \frac{2}{13}, -\frac{1}{13}, -\frac{3}{13}, 0, \frac{3}{13}, 0, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{12}{91}\sqrt{7}e^2 \otimes e_7 + \frac{2}{91}\sqrt{322}e^1 \otimes e_8$	{12349, 1679, 268, 3478}
94:11	$0, 0, 0, 0, 0, \frac{3}{13}\sqrt{3}e^{12}, \frac{3}{13}\sqrt{2}e^{13}, \frac{3}{13}e^{24},$ $\frac{3}{13}\sqrt{2}e^{15} + \frac{3}{13}\sqrt{3}e^{23}$	$(-\frac{2}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{4}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{3}{13}, \frac{1}{13}, \frac{4}{13})$ $+ \frac{3}{13}\sqrt{11}e^5 \otimes e_7 + \frac{6}{13}\sqrt{3}e^2 \otimes e_4$	{1235, 1279, 2367, 2569}
94:11	$0, 0, 0, 0, 0, \frac{1}{17}\sqrt{21}e^{12}, \frac{2}{17}\sqrt{21}e^{13}, \frac{1}{17}\sqrt{3}e^{24},$ $\frac{1}{17}\sqrt{3}e^{15} + \frac{1}{17}\sqrt{21}e^{23}$	$(-\frac{14}{51}, -\frac{1}{51}, \frac{4}{17}, \frac{2}{17}, \frac{25}{51}, -\frac{5}{17}, -\frac{2}{51}, \frac{5}{51}, \frac{11}{51})$ $+ \frac{12}{17}e^3 \otimes e_6 + \frac{1}{17}\sqrt{129}e^5 \otimes e_7$	{123458, 1235, 245689, 2569}
94:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{1}{35}\sqrt{154}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{23}$	$(0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, 0)$ $+ \frac{1}{35}\sqrt{210}e^4 \otimes e_9 + \frac{1}{35}\sqrt{42}e^5 \otimes e_6 + \frac{2}{5}e^3 \otimes e_8$	{126789, 14578, 2589, 468}
94:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{2}{35}\sqrt{14}e^{13}, \frac{1}{35}\sqrt{154}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{23}$	$(0, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0, 0)$ $- \frac{1}{35}\sqrt{210}e^4 \otimes e_9 + \frac{1}{35}\sqrt{42}e^5 \otimes e_6 + \frac{2}{5}e^3 \otimes e_8$	{126789, 14578, 2589, 468}
94:11	$0, 0, 0, 0, 0, \frac{1}{284}\sqrt{25415}e^{12}, \frac{3}{284}\sqrt{442}e^{13}, \frac{1}{284}\sqrt{58786}e^{24},$ $\frac{13}{142}\sqrt{85}e^{15} + \frac{1}{284}\sqrt{25415}e^{23}$	$(-\frac{79}{568}, \frac{6}{71}, \frac{181}{568}, -\frac{91}{284}, \frac{77}{142}, -\frac{31}{568}, \frac{51}{284}, -\frac{67}{284}, \frac{229}{568})$ $+ \frac{11}{142}\sqrt{221}e^5 \otimes e_8$	{123689, 124567, 135, 14789, 234579, 28, 34678, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:11	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{30191e^{12}}, \frac{1}{289}\sqrt{47897e^{13}}, \frac{10}{289}\sqrt{454e^{24}},$ $\frac{1}{289}\sqrt{7491e^{15}} + \frac{1}{289}\sqrt{25197e^{23}}$	$(\frac{45}{578}, -\frac{44}{289}, \frac{128}{289}, -\frac{55}{289}, \frac{123}{578}, -\frac{43}{578}, \frac{301}{578}, -\frac{99}{289}, \frac{84}{289})$ $+ \frac{2}{289}\sqrt{27694e^3} \otimes e_8$	{12346, 1256789, 1359, 1478, 23457, 289, 3679, 4568}
94:11	$0, 0, 0, 0, 0, \frac{1}{284}\sqrt{25415e^{12}}, \frac{13}{142}\sqrt{85e^{13}}, \frac{1}{284}\sqrt{58786e^{24}},$ $\frac{3}{284}\sqrt{442e^{15}} + \frac{1}{284}\sqrt{25415e^{23}}$	$(-\frac{79}{568}, \frac{6}{71}, -\frac{61}{568}, \frac{151}{284}, \frac{33}{284}, -\frac{31}{568}, -\frac{35}{142}, \frac{175}{284}, -\frac{13}{568})$ $+ \frac{11}{142}\sqrt{221e^4} \otimes e_7$	{123469, 125678, 13458, 179, 235789, 24, 367, 45689}
94:11	$0, 0, 0, 0, 0, \frac{106}{3701}\sqrt{51e^{12}}, \frac{6}{3701}\sqrt{2226e^{13}}, \frac{10}{3701}\sqrt{9858e^{24}},$ $\frac{24}{3701}\sqrt{63282e^{15}} + \frac{24}{3701}\sqrt{53e^{23}}$	$(-\frac{300}{3701}, \frac{336}{3701}, \frac{439}{3701}, \frac{421}{3701}, \frac{403}{3701}, -\frac{636}{3701}, \frac{139}{3701}, \frac{85}{3701}, \frac{103}{3701})$ $+ \frac{2}{3701}\sqrt{271254e^4} \otimes e_9 + \frac{2}{3701}\sqrt{275070e^5} \otimes e_8$	{1236789, 12456, 3468, 5679}
94:11	$0, 0, 0, 0, 0, \frac{54}{2777}\sqrt{46e^{12}}, \frac{18}{2777}\sqrt{4531e^{13}}, \frac{48}{2777}\sqrt{966e^{24}},$ $\frac{6}{2777}\sqrt{8763e^{15}} + \frac{6}{2777}\sqrt{9867e^{23}}$	$(-\frac{111}{2777}, -\frac{686}{2777}, \frac{1001}{2777}, \frac{445}{2777}, \frac{426}{2777}, -\frac{797}{2777}, \frac{890}{2777}, -\frac{241}{2777}, \frac{315}{2777})$ $+ \frac{12}{2777}\sqrt{24771e^3} \otimes e_8 + \frac{6}{2777}\sqrt{71898e^4} \otimes e_6$	{1256789, 1478, 23457, 3679}
94:11	$0, 0, 0, 0, 0, \frac{1}{367}\sqrt{44715e^{12}}, \frac{3}{367}\sqrt{715e^{13}}, \frac{18}{367}\sqrt{55e^{24}},$ $\frac{11}{367}\sqrt{165e^{15}} + \frac{3}{367}\sqrt{2035e^{23}}$	$(\frac{189}{734}, \frac{70}{367}, -\frac{46}{367}, -\frac{95}{367}, -\frac{141}{367}, \frac{329}{734}, \frac{97}{734}, -\frac{25}{367}, \frac{24}{367})$ $+ \frac{2}{367}\sqrt{14685e^2} \otimes e_4 + \frac{40}{367}\sqrt{33e^1} \otimes e_5$	{123, 1467, 23567, 45}
94:11	$0, 0, 0, 0, 0, \frac{1}{124}\sqrt{177e^{12}}, \frac{1}{124}\sqrt{2301e^{13}}, \frac{1}{62}\sqrt{767e^{24}},$ $\frac{1}{124}\sqrt{2301e^{15}} + \frac{1}{124}\sqrt{1534e^{23}}$	$(\frac{13}{62}, \frac{13}{124}, \frac{17}{248}, -\frac{23}{62}, -\frac{9}{248}, \frac{39}{124}, \frac{69}{248}, -\frac{33}{124}, \frac{43}{248})$ $+ \frac{1}{124}\sqrt{4130e^2} \otimes e_4 + \frac{1}{62}\sqrt{2183e^1} \otimes e_8$	{2356789, 268, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{33}{1169}\sqrt{5e^{12}}, \frac{22}{1169}\sqrt{183e^{13}}, \frac{33}{1169}\sqrt{65e^{24}},$ $\frac{22}{1169}\sqrt{151e^{15}} + \frac{143}{1169}\sqrt{3e^{23}}$	$(-\frac{44}{1169}, \frac{33}{1169}, \frac{110}{1169}, -\frac{198}{1169}, \frac{187}{1169}, -\frac{11}{1169}, \frac{66}{1169}, -\frac{165}{1169}, \frac{143}{1169})$ $+ \frac{11}{1169}\sqrt{789e^5} \otimes e_7 + \frac{176}{1169}e^3 \otimes e_6 + \frac{44}{1169}\sqrt{69e^1} \otimes e_8$	{1679, 3478}
94:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51e^{12}}, \frac{1}{35}\sqrt{42e^{13}}, \frac{3}{35}\sqrt{7e^{24}},$ $\frac{1}{35}\sqrt{42e^{15}} + \frac{1}{35}\sqrt{21e^{23}}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51e^5} \otimes e_7 + \frac{4}{35}\sqrt{2e^3} \otimes e_8 + \frac{6}{35}\sqrt{2e^4} \otimes e_9$	{123456, 126789, 2347, 2589}
94:11	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51e^{12}}, \frac{1}{35}\sqrt{42e^{13}}, \frac{3}{35}\sqrt{7e^{24}},$ $\frac{1}{35}\sqrt{42e^{15}} + \frac{1}{35}\sqrt{21e^{23}}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51e^5} \otimes e_7 + \frac{6}{35}\sqrt{2e^3} \otimes e_8 - \frac{6}{35}\sqrt{2e^4} \otimes e_9$	{123456, 126789, 2347, 2589}
94:11	$0, 0, 0, 0, 0, \frac{46}{3941}\sqrt{131e^{12}}, \frac{23}{3941}\sqrt{2762e^{13}}, \frac{46}{3941}\sqrt{595e^{24}},$ $\frac{23}{3941}\sqrt{1146e^{15}} + \frac{46}{3941}\sqrt{393e^{23}}$	$(-\frac{207}{3941}, \frac{437}{3941}, \frac{115}{3941}, -\frac{851}{3941}, \frac{759}{3941}, \frac{230}{3941}, -\frac{92}{3941}, -\frac{414}{3941}, \frac{552}{3941})$ $+ \frac{23}{3941}\sqrt{3886e^3} \otimes e_8 + \frac{46}{3941}\sqrt{906e^2} \otimes e_7 + \frac{69}{3941}\sqrt{34e^5} \otimes e_6$	{1478, 289}
94:11	$0, 0, 0, 0, 0, \frac{4}{3785}\sqrt{11822e^{12}}, \frac{2}{3785}\sqrt{320993e^{13}}, \frac{16}{3785}\sqrt{4369e^{24}},$ $\frac{2}{3785}\sqrt{124131e^{15}} + \frac{2}{3785}\sqrt{181185e^{23}}$	$(-\frac{261}{3785}, \frac{398}{3785}, \frac{29}{757}, -\frac{767}{3785}, \frac{804}{3785}, \frac{137}{3785}, -\frac{116}{3785}, -\frac{369}{3785}, \frac{543}{3785})$ $+ \frac{2}{3785}\sqrt{433302e^2} \otimes e_7 + \frac{2}{3785}\sqrt{456946e^3} \otimes e_8$	{12346, 1478, 289, 3679}
94:11	$0, 0, 0, 0, 0, \frac{3}{847}\sqrt{2086e^{12}}, \frac{39}{847}\sqrt{14e^{13}}, \frac{3}{847}\sqrt{3010e^{24}},$ $\frac{6}{847}\sqrt{483e^{15}} + \frac{6}{847}\sqrt{427e^{23}}$	$(-\frac{3}{121}, \frac{9}{121}, \frac{3}{121}, -\frac{21}{121}, \frac{15}{121}, \frac{6}{121}, 0, -\frac{12}{121}, \frac{12}{121})$ $+ \frac{15}{121}\sqrt{2e^5} \otimes e_6 + \frac{3}{847}\sqrt{3318e^2} \otimes e_7 + \frac{3}{847}\sqrt{5138e^1} \otimes e_8$	{1679, 268}
94:11	$0, 0, 0, 0, 0, \frac{3}{572}\sqrt{581e^{12}}, \frac{1}{286}\sqrt{25149e^{13}}, \frac{3}{572}\sqrt{5810e^{24}},$ $\frac{1}{572}\sqrt{27390e^{15}} + \frac{3}{572}\sqrt{581e^{23}}$	$(-\frac{199}{1144}, -\frac{17}{143}, \frac{163}{1144}, \frac{21}{52}, \frac{113}{572}, -\frac{335}{1144}, -\frac{9}{286}, \frac{163}{572}, \frac{27}{1144})$ $+ \frac{1}{286}\sqrt{29382e^3} \otimes e_6 + \frac{1}{286}\sqrt{34611e^4} \otimes e_7$	{1234, 167, 2469, 379}
94:11	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{3315e^{12}}, \frac{1}{67}\sqrt{1365e^{13}}, \frac{2}{67}\sqrt{455e^{24}},$ $\frac{1}{67}\sqrt{1365e^{15}} + \frac{1}{67}\sqrt{3315e^{23}}$	$(\frac{9}{134}, \frac{30}{67}, -\frac{6}{67}, -\frac{35}{67}, \frac{39}{67}, \frac{69}{67}, -\frac{3}{134}, -\frac{5}{67}, \frac{24}{67})$ $+ \frac{2}{67}\sqrt{1885e^2} \otimes e_4$	{1237, 1259, 1345679, 146, 2356, 2679, 349, 457}
94:11	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1463e^{12}}, \frac{7}{215}\sqrt{209e^{13}}, \frac{2}{215}\sqrt{2926e^{24}},$ $\frac{1}{215}\sqrt{4389e^{15}} + \frac{1}{215}\sqrt{4389e^{23}}$	$(-\frac{9}{86}, -\frac{28}{215}, \frac{88}{215}, -\frac{17}{215}, \frac{33}{86}, -\frac{101}{430}, \frac{131}{430}, -\frac{9}{43}, \frac{12}{43})$ $+ \frac{12}{215}\sqrt{133e^5} \otimes e_6 + \frac{2}{215}\sqrt{7714e^3} \otimes e_8$	{126789, 14578, 2589, 468}
94:11	$0, 0, 0, 0, 0, \frac{17}{1001}\sqrt{219e^{12}}, \frac{34}{1001}\sqrt{69e^{13}}, \frac{51}{1001}\sqrt{37e^{24}},$ $\frac{34}{1001}\sqrt{115e^{15}} + \frac{17}{1001}\sqrt{165e^{23}}$	$(-\frac{170}{1001}, -\frac{51}{1001}, \frac{68}{1001}, \frac{306}{1001}, \frac{17}{91}, -\frac{17}{77}, -\frac{102}{1001}, \frac{255}{1001}, \frac{17}{1001})$ $+ \frac{272}{1001}\sqrt{3e^4} \otimes e_9 + \frac{340}{1001}e^3 \otimes e_6 + \frac{51}{1001}\sqrt{73e^5} \otimes e_7$	{126789, 2347}
94:11	$0, 0, 0, 0, 0, \frac{22}{637}\sqrt{74e^{12}}, \frac{11}{637}\sqrt{314e^{13}}, \frac{66}{637}e^{24},$ $\frac{11}{637}\sqrt{266e^{15}} + \frac{22}{637}\sqrt{74e^{23}}$	$(-\frac{121}{637}, \frac{33}{637}, \frac{33}{637}, \frac{33}{637}, \frac{187}{637}, -\frac{88}{637}, -\frac{88}{637}, \frac{66}{637}, \frac{66}{637})$ $+ \frac{11}{637}\sqrt{574e^3} \otimes e_6 + \frac{11}{637}\sqrt{6e^5} \otimes e_8 + \frac{44}{637}\sqrt{37e^2} \otimes e_7$	{1238, 14678, 2689, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:11	$0, 0, 0, 0, 0, \frac{4}{937}\sqrt{4895}e^{12}, \frac{4}{937}\sqrt{5162}e^{13}, \frac{4}{937}\sqrt{534}e^{24},$ $\frac{2}{937}\sqrt{17711}e^{15} + \frac{4}{937}\sqrt{4895}e^{23}$	$(-\frac{178}{937}, \frac{48}{937}, \frac{48}{937}, \frac{51}{937}, \frac{274}{937}, -\frac{130}{937}, -\frac{130}{937}, \frac{99}{937}, \frac{96}{937})$ $-\frac{10}{937}\sqrt{1513}e^3 \otimes e_6 + \frac{2}{937}\sqrt{38893}e^2 \otimes e_7$	{1234, 1238, 14678, 167, 2469, 2689, 34789, 379}
94:11	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1419}e^{12}, \frac{1}{97}\sqrt{2310}e^{13}, \frac{3}{97}\sqrt{187}e^{24},$ $\frac{11}{97}\sqrt{6}e^{15} + \frac{1}{97}\sqrt{165}e^{23}$	$(-\frac{15}{97}, \frac{3}{97}, \frac{20}{97}, -\frac{16}{97}, \frac{38}{97}, -\frac{12}{97}, \frac{5}{97}, -\frac{13}{97}, \frac{23}{97})$ $+\frac{12}{97}\sqrt{22}e^3 \otimes e_8 + \frac{1}{97}\sqrt{2607}e^5 \otimes e_7$	{123456, 126789, 2347, 2589}
94:11	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{102}e^{12}, \frac{6}{59}\sqrt{34}e^{13}, \frac{4}{59}\sqrt{102}e^{24},$ $\frac{2}{59}\sqrt{34}e^{15} + \frac{2}{59}\sqrt{323}e^{23}$	$(\frac{17}{59}, -\frac{2}{59}, \frac{10}{59}, -\frac{15}{59}, -\frac{9}{59}, \frac{15}{59}, \frac{27}{59}, -\frac{17}{59}, \frac{8}{59})$ $+\frac{10}{59}\sqrt{34}e^1 \otimes e_8$	{12349, 12457, 1356, 1679, 2356789, 268, 3478, 4589}
94:11	$0, 0, 0, 0, 0, \frac{4}{939}\sqrt{1131}e^{12}, \frac{2}{313}\sqrt{1247}e^{13}, \frac{2}{939}\sqrt{31494}e^{24},$ $\frac{58}{939}\sqrt{33}e^{15} + \frac{2}{939}\sqrt{8265}e^{23}$	$(\frac{163}{939}, -\frac{122}{939}, \frac{59}{939}, \frac{37}{313}, -\frac{226}{939}, \frac{41}{939}, \frac{74}{313}, -\frac{11}{939}, -\frac{21}{313})$ $+\frac{2}{939}\sqrt{40542}e^1 \otimes e_8 + \frac{4}{939}\sqrt{8265}e^4 \otimes e_9$	{124567, 179, 235789, 34678}
94:11	$0, 0, 0, 0, 0, \frac{1}{280}\sqrt{40863}e^{12}, \frac{1}{140}\sqrt{7710}e^{13}, \frac{1}{280}\sqrt{20046}e^{24},$ $\frac{1}{280}\sqrt{30326}e^{15} + \frac{1}{280}\sqrt{40863}e^{23}$	$(-\frac{11}{80}, -\frac{39}{140}, \frac{281}{560}, \frac{81}{280}, \frac{101}{280}, -\frac{233}{560}, \frac{51}{140}, \frac{3}{280}, \frac{25}{112})$ $+\frac{1}{140}\sqrt{30583}e^3 \otimes e_6$	{123, 12348, 1467, 1678, 24689, 269, 3479, 3789}
94:12	$0, 0, 0, 0, 0, \frac{1}{227}\sqrt{6549}e^{12}, \frac{1}{227}\sqrt{6549}e^{13}, \frac{8}{227}\sqrt{59}e^{14},$ $\frac{1}{227}\sqrt{4366}e^{23} + \frac{1}{227}\sqrt{590}e^{45}$	$(-\frac{59}{227}, \frac{31}{227}, \frac{31}{227}, \frac{47}{227}, \frac{15}{227}, -\frac{28}{227}, -\frac{28}{227}, \frac{12}{227}, \frac{62}{227})$ $+\frac{3}{227}\sqrt{1357}e^2 \otimes e_7 + \frac{3}{227}\sqrt{1357}e^3 \otimes e_6$	{123, 123458, 145678, 167, 2469, 25689}
94:12	$0, 0, 0, 0, 0, \frac{3}{248}\sqrt{281}e^{12}, \frac{3}{248}\sqrt{281}e^{13}, \frac{1}{248}\sqrt{36530}e^{14},$ $\frac{1}{248}\sqrt{1686}e^{23} + \frac{1}{124}\sqrt{8711}e^{45}$	$(-\frac{3}{62}, \frac{103}{496}, \frac{103}{496}, -\frac{83}{248}, \frac{3}{4}, \frac{79}{496}, \frac{79}{496}, -\frac{95}{248}, \frac{103}{248})$ $+\frac{1}{124}\sqrt{28662}e^5 \otimes e_8$	{12456, 1268, 23489, 2359, 46789, 5679}
94:12	$0, 0, 0, 0, 0, \frac{2}{473}\sqrt{14555}e^{12}, \frac{10}{473}\sqrt{213}e^{13}, \frac{2}{473}\sqrt{9727}e^{14},$ $\frac{8}{473}\sqrt{355}e^{23} + \frac{2}{473}\sqrt{12283}e^{45}$	$(-\frac{101}{473}, \frac{8}{43}, \frac{47}{473}, \frac{6}{473}, \frac{3}{11}, -\frac{13}{473}, -\frac{54}{473}, -\frac{95}{473}, \frac{135}{473})$ $+\frac{4}{473}\sqrt{4615}e^5 \otimes e_6 + \frac{6}{473}\sqrt{1349}e^2 \otimes e_7$	{12359, 146789, 268, 3457}
94:12	$0, 0, 0, 0, 0, \frac{4}{61}\sqrt{66}e^{12}, \frac{2}{305}\sqrt{2442}e^{13}, \frac{6}{305}\sqrt{154}e^{14},$ $\frac{6}{305}\sqrt{154}e^{23} + \frac{12}{305}\sqrt{77}e^{45}$	$(-\frac{53}{305}, \frac{47}{305}, \frac{47}{305}, -\frac{32}{305}, \frac{126}{305}, -\frac{6}{305}, -\frac{6}{305}, -\frac{17}{61}, \frac{94}{305})$ $+\frac{2}{305}\sqrt{9042}e^2 \otimes e_8 + \frac{2}{305}\sqrt{9042}e^5 \otimes e_6$	{123457, 168, 236, 4578}
94:12	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22}e^{12}, \frac{2}{245}\sqrt{30}e^{13}, \frac{2}{245}\sqrt{155}e^{14},$ $\frac{12}{245}e^{23} + \frac{2}{245}\sqrt{287}e^{45}$	$(\frac{6}{245}, -\frac{22}{245}, \frac{4}{49}, -\frac{8}{245}, \frac{6}{245}, -\frac{16}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{2}{245})$ $+\frac{2}{245}\sqrt{237}e^5 \otimes e_8 + \frac{6}{245}\sqrt{37}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^4 \otimes e_6$	{12457, 1368, 235679, 489}
94:12	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22}e^{12}, \frac{2}{245}\sqrt{30}e^{13}, \frac{2}{245}\sqrt{155}e^{14},$ $\frac{12}{245}e^{23} + \frac{2}{245}\sqrt{287}e^{45}$	$(\frac{6}{245}, -\frac{22}{245}, \frac{4}{49}, -\frac{8}{245}, \frac{6}{245}, -\frac{16}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{2}{245})$ $-\frac{2}{245}\sqrt{237}e^5 \otimes e_8 + \frac{6}{245}\sqrt{37}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^4 \otimes e_6$	{12457, 1368, 235679, 489}
94:12	$0, 0, 0, 0, 0, \frac{2}{817}\sqrt{17574}e^{12}, \frac{2}{817}\sqrt{17574}e^{13}, \frac{2}{817}\sqrt{505}e^{14},$ $\frac{4}{817}\sqrt{2929}e^{23} + \frac{22}{817}\sqrt{101}e^{45}$	$(\frac{131}{817}, \frac{131}{817}, -\frac{202}{817}, -\frac{2}{43}, -\frac{33}{817}, \frac{262}{817}, -\frac{71}{817}, \frac{93}{817}, -\frac{71}{817})$ $+\frac{12}{817}\sqrt{1111}e^1 \otimes e_9 - \frac{6}{817}\sqrt{3737}e^2 \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{2}{817}\sqrt{17574}e^{12}, \frac{2}{817}\sqrt{17574}e^{13}, \frac{2}{817}\sqrt{505}e^{14},$ $\frac{4}{817}\sqrt{2929}e^{23} + \frac{22}{817}\sqrt{101}e^{45}$	$(\frac{131}{817}, \frac{131}{817}, -\frac{202}{817}, -\frac{2}{43}, -\frac{33}{817}, \frac{262}{817}, -\frac{71}{817}, \frac{93}{817}, -\frac{71}{817})$ $+\frac{12}{817}\sqrt{1111}e^1 \otimes e_9 + \frac{6}{817}\sqrt{3737}e^2 \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{4}{251}\sqrt{1905}e^{12}, \frac{4}{251}\sqrt{1905}e^{13}, \frac{2}{251}\sqrt{3683}e^{14},$ $\frac{4}{251}\sqrt{1270}e^{23} + \frac{2}{251}\sqrt{1397}e^{45}$	$(-\frac{47}{251}, \frac{151}{251}, -\frac{56}{251}, \frac{62}{251}, \frac{33}{251}, \frac{104}{251}, -\frac{103}{251}, \frac{15}{251}, \frac{95}{251})$ $+\frac{6}{251}\sqrt{2921}e^2 \otimes e_7$	{123, 123458, 145678, 167, 2469, 25689, 3479, 35789}
94:12	$0, 0, 0, 0, 0, \frac{1}{181}\sqrt{57}e^{12}, \frac{19}{181}\sqrt{11}e^{13}, \frac{1}{181}\sqrt{7258}e^{14},$ $\frac{1}{181}\sqrt{5567}e^{23} + \frac{1}{181}\sqrt{3990}e^{45}$	$(-\frac{125}{724}, \frac{167}{724}, -\frac{39}{724}, \frac{35}{181}, -\frac{3}{181}, \frac{21}{362}, -\frac{41}{181}, \frac{15}{724}, \frac{32}{181})$ $+\frac{1}{181}\sqrt{5073}e^4 \otimes e_5 + \frac{2}{181}\sqrt{1957}e^2 \otimes e_8$	{123467, 158, 235, 4678}
94:12	$0, 0, 0, 0, 0, \frac{30}{3209}\sqrt{1414}e^{12}, \frac{2}{3209}\sqrt{89385}e^{13}, \frac{4}{3209}\sqrt{73730}e^{14},$ $\frac{6}{3209}\sqrt{21715}e^{23} + \frac{4}{3209}\sqrt{126755}e^{45}$	$(-\frac{741}{3209}, \frac{53}{3209}, \frac{860}{3209}, \frac{322}{3209}, \frac{591}{3209}, -\frac{688}{3209}, \frac{119}{3209}, -\frac{419}{3209}, \frac{913}{3209})$ $+\frac{2}{3209}\sqrt{655995}e^5 \otimes e_8 + \frac{2}{3209}\sqrt{815070}e^4 \otimes e_6$	{1245, 13678, 23569, 4789}
94:12	$0, 0, 0, 0, 0, \frac{2}{313}\sqrt{16745}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{1}{313}\sqrt{45310}e^{14},$ $\frac{1}{313}\sqrt{45310}e^{23} + \frac{1}{313}\sqrt{71314}e^{45}$	$(-\frac{49}{313}, -\frac{16}{313}, \frac{121}{313}, -\frac{27}{313}, \frac{132}{313}, -\frac{65}{313}, \frac{72}{313}, -\frac{76}{313}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{26989}e^5 \otimes e_6$	{12359, 124578, 136, 146789, 234679, 268, 3457, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:12	$0, 0, 0, 0, 0, \frac{1}{112}\sqrt{1095}e^{12}, \frac{1}{112}\sqrt{1095}e^{13}, \frac{1}{112}\sqrt{2482}e^{14},$ $\frac{1}{56}\sqrt{730}e^{23} + \frac{1}{28}\sqrt{73}e^{45}$	$(-\frac{19}{112}, \frac{79}{224}, -\frac{29}{224}, \frac{7}{16}, -\frac{3}{14}, \frac{41}{224}, -\frac{67}{224}, \frac{15}{56}, \frac{25}{112})$ $+ \frac{3}{112}\sqrt{730}e^4 \otimes e_5 + \frac{3}{56}\sqrt{219}e^2 \otimes e_7$	{1234, 12358, 1467, 15678}
94:12	$0, 0, 0, 0, 0, \frac{60}{3169}\sqrt{281}e^{12}, \frac{2}{3169}\sqrt{56481}e^{13}, \frac{2}{3169}\sqrt{103127}e^{14},$ $\frac{6}{3169}\sqrt{3091}e^{23} + \frac{2}{3169}\sqrt{271727}e^{45}$	$(\frac{303}{3169}, -\frac{479}{3169}, \frac{220}{3169}, \frac{386}{3169}, -\frac{645}{3169}, -\frac{176}{3169}, \frac{523}{3169}, \frac{689}{3169}, -\frac{259}{3169})$ $+ \frac{2}{3169}\sqrt{392838}e^4 \otimes e_6 + \frac{6}{3169}\sqrt{45241}e^1 \otimes e_9$	{12457, 1368, 235679, 489}
94:12	$0, 0, 0, 0, 0, \frac{1}{88}\sqrt{2211}e^{12}, \frac{1}{88}\sqrt{2211}e^{13}, \frac{1}{88}\sqrt{1474}e^{14},$ $\frac{1}{88}\sqrt{1474}e^{23} + \frac{1}{44}\sqrt{737}e^{45}$	$(\frac{1}{2}, -\frac{23}{176}, -\frac{23}{176}, -\frac{17}{88}, -\frac{3}{44}, \frac{65}{176}, \frac{65}{176}, \frac{27}{88}, -\frac{23}{88})$ $+ \frac{3}{22}\sqrt{67}e^1 \otimes e_9$	{12345, 1238, 14567, 1678, 24689, 2569}
94:12	$0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{8}{139}\sqrt{35}e^{13}, \frac{5}{139}\sqrt{133}e^{14},$ $\frac{1}{139}\sqrt{2030}e^{23} + \frac{1}{139}\sqrt{210}e^{45}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{15}{139}, \frac{23}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $- \frac{1}{139}\sqrt{3885}e^4 \otimes e_6 + \frac{1}{139}\sqrt{5005}e^2 \otimes e_8$	{12347, 12459, 136789, 1568, 2356, 2679, 34589, 478}
94:12	$0, 0, 0, 0, 0, \frac{1}{227}\sqrt{6549}e^{12}, \frac{1}{227}\sqrt{6549}e^{13}, \frac{8}{227}\sqrt{59}e^{14},$ $\frac{1}{227}\sqrt{4366}e^{23} + \frac{1}{227}\sqrt{590}e^{45}$	$(-\frac{59}{227}, \frac{31}{227}, \frac{31}{227}, \frac{47}{227}, \frac{15}{227}, -\frac{28}{227}, -\frac{28}{227}, -\frac{12}{227}, \frac{62}{227})$ $+ \frac{3}{227}\sqrt{1357}e^2 \otimes e_7 - \frac{3}{227}\sqrt{1357}e^3 \otimes e_6$	{123, 123458, 145678, 167, 2469, 25689}
94:12	$0, 0, 0, 0, 0, \frac{4}{2449}\sqrt{105495}e^{12}, \frac{4}{2449}\sqrt{25427}e^{13}, \frac{2}{2449}\sqrt{3787}e^{14},$ $\frac{12}{2449}\sqrt{1082}e^{23} + \frac{6}{2449}\sqrt{30837}e^{45}$	$(-\frac{685}{2449}, \frac{557}{2449}, \frac{160}{2449}, \frac{954}{2449}, -\frac{3}{31}, -\frac{128}{2449}, -\frac{525}{2449}, \frac{269}{2449}, \frac{717}{2449})$ $+ \frac{2}{2449}\sqrt{535049}e^2 \otimes e_7 + \frac{8}{2449}\sqrt{40034}e^4 \otimes e_6$	{123489, 15679, 268, 3457}
94:12	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{68798}e^{12}, \frac{4}{995}\sqrt{5034}e^{13}, \frac{1}{995}\sqrt{179546}e^{14},$ $\frac{3}{995}\sqrt{31882}e^{23} + \frac{1}{995}\sqrt{592334}e^{45}$	$(-\frac{267}{995}, -\frac{37}{995}, \frac{76}{199}, \frac{107}{199}, -\frac{192}{995}, -\frac{304}{995}, \frac{113}{995}, \frac{268}{995}, \frac{343}{995})$ $+ \frac{2}{995}\sqrt{349863}e^4 \otimes e_6$	{123479, 1245, 13678, 15689, 23569, 267, 3458, 4789}
94:12	$0, 0, 0, 0, 0, \frac{2}{851}\sqrt{23501}e^{12}, \frac{4}{851}\sqrt{2130}e^{13}, \frac{2}{851}\sqrt{9301}e^{14},$ $\frac{1}{851}\sqrt{9301}e^{23} + \frac{2}{851}\sqrt{26341}e^{45}$	$(\frac{109}{851}, -\frac{122}{851}, \frac{89}{851}, -\frac{162}{851}, \frac{129}{851}, -\frac{13}{851}, \frac{198}{851}, -\frac{53}{851}, -\frac{33}{851})$ $+ \frac{2}{851}\sqrt{29962}e^5 \otimes e_6 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_9$	{124578, 136, 234679, 589}
94:12	$0, 0, 0, 0, 0, \frac{17}{652}\sqrt{69}e^{12}, \frac{17}{652}\sqrt{69}e^{13}, \frac{17}{652}\sqrt{358}e^{14},$ $\frac{17}{652}\sqrt{202}e^{23} + \frac{17}{326}\sqrt{23}e^{45}$	$(\frac{85}{326}, -\frac{119}{1304}, -\frac{119}{1304}, \frac{85}{652}, -\frac{51}{163}, \frac{221}{1304}, \frac{221}{1304}, \frac{255}{652}, \frac{119}{652})$ $+ \frac{51}{326}\sqrt{13}e^4 \otimes e_5 + \frac{51}{326}\sqrt{19}e^1 \otimes e_9$	{24689, 2569}
94:12	$0, 0, 0, 0, 0, \frac{5}{763}\sqrt{1254}e^{12}, \frac{10}{763}\sqrt{3}e^{13}, \frac{15}{763}\sqrt{46}e^{14},$ $\frac{15}{763}\sqrt{46}e^{23} + \frac{30}{763}\sqrt{23}e^{45}$	$(\frac{65}{763}, -\frac{5}{763}, -\frac{5}{763}, -\frac{145}{763}, \frac{135}{763}, \frac{60}{763}, \frac{60}{763}, -\frac{80}{763}, -\frac{10}{763})$ $+ \frac{15}{763}\sqrt{186}e^1 \otimes e_9 + \frac{5}{763}\sqrt{1266}e^2 \otimes e_8 + \frac{5}{763}\sqrt{1266}e^5 \otimes e_6$	{123457, 168}
94:12	$0, 0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{12}{49}e^{13}, \frac{2}{49}\sqrt{74}e^{14}, \frac{4}{49}\sqrt{6}e^{23} + \frac{2}{7}\sqrt{2}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{16}{49}, \frac{12}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $- \frac{10}{49}\sqrt{6}e^5 \otimes e_8 + \frac{6}{49}\sqrt{22}e^1 \otimes e_9$	{12345, 1238, 14567, 1678, 24689, 2569}
94:12	$0, 0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{12}{49}e^{13}, \frac{2}{49}\sqrt{74}e^{14}, \frac{4}{49}\sqrt{6}e^{23} + \frac{2}{7}\sqrt{2}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{16}{49}, \frac{12}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{10}{49}\sqrt{6}e^5 \otimes e_8 + \frac{6}{49}\sqrt{22}e^1 \otimes e_9$	{12345, 1238, 14567, 1678, 24689, 2569}
94:12	$0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{8}{139}\sqrt{35}e^{13}, \frac{5}{139}\sqrt{133}e^{14},$ $\frac{1}{139}\sqrt{2030}e^{23} + \frac{1}{139}\sqrt{210}e^{45}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{15}{139}, \frac{23}{139}, \frac{15}{139}, -\frac{12}{139}, -\frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $+ \frac{1}{139}\sqrt{3885}e^4 \otimes e_6 + \frac{1}{139}\sqrt{5005}e^2 \otimes e_8$	{12347, 12459, 136789, 1568, 2356, 2679, 34589, 478}
94:12	$0, 0, 0, 0, 0, \frac{2}{577}\sqrt{11946}e^{12}, \frac{2}{577}\sqrt{11946}e^{13}, \frac{2}{577}\sqrt{5973}e^{14},$ $\frac{4}{577}\sqrt{1991}e^{23} + \frac{2}{577}\sqrt{13937}e^{45}$	$(-\frac{93}{577}, \frac{231}{577}, -\frac{38}{577}, -\frac{38}{577}, \frac{231}{577}, \frac{138}{577}, -\frac{131}{577}, -\frac{131}{577}, \frac{193}{577})$ $+ \frac{2}{577}\sqrt{48689}e^2 \otimes e_7 + \frac{4}{577}\sqrt{10679}e^5 \otimes e_8$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{2}{577}\sqrt{11946}e^{12}, \frac{2}{577}\sqrt{11946}e^{13}, \frac{2}{577}\sqrt{5973}e^{14},$ $\frac{4}{577}\sqrt{1991}e^{23} + \frac{2}{577}\sqrt{13937}e^{45}$	$(-\frac{93}{577}, \frac{231}{577}, -\frac{38}{577}, -\frac{38}{577}, \frac{231}{577}, \frac{138}{577}, -\frac{131}{577}, -\frac{131}{577}, \frac{193}{577})$ $+ \frac{2}{577}\sqrt{48689}e^2 \otimes e_7 - \frac{4}{577}\sqrt{10679}e^5 \otimes e_8$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{4}{851}\sqrt{2130}e^{12}, \frac{2}{851}\sqrt{6461}e^{13}, \frac{2}{851}\sqrt{20661}e^{14},$ $\frac{2}{851}\sqrt{20661}e^{23} + \frac{2}{851}\sqrt{3621}e^{45}$	$(\frac{109}{851}, \frac{89}{851}, -\frac{122}{851}, -\frac{162}{851}, \frac{129}{851}, \frac{198}{851}, -\frac{13}{851}, -\frac{53}{851}, -\frac{33}{851})$ $+ \frac{2}{851}\sqrt{29962}e^2 \otimes e_8 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_9$	{12347, 1568, 2679, 34589}
94:12	$0, 0, 0, 0, 0, \frac{2}{473}\sqrt{3905}e^{12}, \frac{10}{473}\sqrt{213}e^{13}, \frac{2}{473}\sqrt{8733}e^{14},$ $\frac{12}{473}\sqrt{355}e^{23} + \frac{2}{473}\sqrt{6177}e^{45}$	$(-\frac{101}{473}, \frac{8}{473}, \frac{47}{473}, \frac{6}{473}, \frac{3}{11}, -\frac{13}{473}, -\frac{54}{473}, -\frac{95}{473}, \frac{135}{473})$ $+ \frac{4}{473}\sqrt{4615}e^3 \otimes e_8 + \frac{6}{473}\sqrt{1349}e^2 \otimes e_7$	{12346, 1578, 24589, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:12	$0, 0, 0, 0, 0, \frac{8}{1351}\sqrt{969e^{12}}, \frac{8}{1351}\sqrt{1406e^{13}}, \frac{24}{1351}\sqrt{1007e^{14}},$ $\frac{8}{1351}\sqrt{6042e^{23}} + \frac{152}{1351}\sqrt{3e^{45}}$	$(-\frac{307}{1351}, \frac{505}{1351}, -\frac{97}{1351}, \frac{204}{1351}, \frac{204}{1351}, \frac{198}{1351}, -\frac{404}{1351}, -\frac{103}{1351}, \frac{408}{1351})$ $+\frac{24}{1351}\sqrt{1007e^4} \otimes e_7 + \frac{8}{1351}\sqrt{13813e^2} \otimes e_8$	{12459, 136789, 2679, 34589}
94:12	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002e^{12}}, \frac{4}{313}\sqrt{2561e^{13}}, \frac{1}{313}\sqrt{62646e^{14}},$ $\frac{1}{313}\sqrt{62646e^{23}} + \frac{1}{313}\sqrt{36642e^{45}}$	$(-\frac{49}{313}, \frac{121}{313}, -\frac{16}{313}, -\frac{27}{313}, \frac{132}{313}, \frac{72}{313}, -\frac{65}{313}, -\frac{76}{313}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{26989e^2} \otimes e_8$	{12347, 12459, 136789, 1568, 2356, 2679, 34589, 478}
94:12	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065e^{12}}, \frac{1}{59}\sqrt{1065e^{13}}, \frac{2}{59}\sqrt{994e^{14}},$ $\frac{1}{59}\sqrt{1633e^{23}} + \frac{2}{59}\sqrt{355e^{45}}$	$(-\frac{7}{118}, \frac{11}{118}, \frac{11}{118}, \frac{41}{118}, -\frac{30}{118}, \frac{2}{59}, \frac{2}{59}, \frac{75}{118}, \frac{11}{59})$ $+\frac{3}{59}\sqrt{781e^4} \otimes e_5$	{123467, 1235678, 14, 158, 2348, 235, 4678, 567}
94:12	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{15e^{14}},$ $\frac{4}{49}\sqrt{5e^{23}} + \frac{2}{49}\sqrt{35e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{18}{49}e^1 \otimes e_9 - \frac{2}{49}\sqrt{41e^5} \otimes e_8 + \frac{4}{49}\sqrt{14e^2} \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{15e^{14}},$ $\frac{4}{49}\sqrt{5e^{23}} + \frac{2}{49}\sqrt{35e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{18}{49}e^1 \otimes e_9 + \frac{2}{49}\sqrt{41e^5} \otimes e_8 + \frac{4}{49}\sqrt{14e^2} \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{15e^{14}},$ $\frac{4}{49}\sqrt{5e^{23}} + \frac{2}{49}\sqrt{35e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{18}{49}e^1 \otimes e_9 - \frac{2}{49}\sqrt{41e^5} \otimes e_8 - \frac{4}{49}\sqrt{14e^2} \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:12	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{15e^{14}},$ $\frac{4}{49}\sqrt{5e^{23}} + \frac{2}{49}\sqrt{35e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{18}{49}e^1 \otimes e_9 + \frac{2}{49}\sqrt{41e^5} \otimes e_8 - \frac{4}{49}\sqrt{14e^2} \otimes e_7$	{12345, 1238, 14567, 1678, 24689, 2569, 34789, 3579}
94:13	$0, 0, 0, 0, 0, \frac{1}{287}\sqrt{19027e^{12}}, \frac{2}{287}\sqrt{20822e^{13}}, \frac{3}{287}\sqrt{2513e^{24}},$ $\frac{1}{287}\sqrt{13283e^{14}} + \frac{4}{287}\sqrt{718e^{35}}$	$(-\frac{43}{574}, \frac{89}{574}, \frac{187}{287}, \frac{73}{287}, -\frac{172}{287}, \frac{23}{287}, \frac{331}{574}, \frac{81}{287}, \frac{15}{287})$ $+\frac{5}{287}\sqrt{6821e^3} \otimes e_5$	{12368, 125678, 13, 157, 2347, 245, 34678, 4568}
94:13	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{777e^{12}}, \frac{2}{159}\sqrt{959e^{13}}, \frac{4}{159}\sqrt{427e^{24}},$ $\frac{2}{159}\sqrt{105e^{14}} + \frac{2}{159}\sqrt{406e^{35}}$	$(\frac{11}{318}, -\frac{35}{318}, \frac{11}{53}, \frac{19}{106}, \frac{67}{159}, \frac{4}{53}, -\frac{55}{318}, \frac{11}{159}, \frac{34}{159})$ $+\frac{2}{159}\sqrt{1841e^5} \otimes e_8 + \frac{2}{159}\sqrt{2170e^4} \otimes e_7$	{123456, 1579, 2459, 3567}
94:13	$0, 0, 0, 0, 0, \frac{12}{971}\sqrt{310e^{12}}, \frac{16}{971}\sqrt{395e^{13}}, \frac{20}{971}\sqrt{238e^{24}},$ $\frac{8}{971}\sqrt{305e^{14}} + \frac{4}{971}\sqrt{1110e^{35}}$	$(\frac{120}{971}, \frac{108}{971}, -\frac{172}{971}, -\frac{148}{971}, \frac{144}{971}, \frac{228}{971}, -\frac{52}{971}, -\frac{40}{971}, -\frac{28}{971})$ $+\frac{4}{971}\sqrt{9130e^2} \otimes e_7 + \frac{8}{971}\sqrt{2130e^1} \otimes e_8$	{123459, 1567, 2689, 3478}
94:13	$0, 0, 0, 0, 0, \frac{9}{5957}\sqrt{194e^{12}}, \frac{9}{5957}\sqrt{2578e^{13}}, \frac{18}{5957}\sqrt{911e^{24}},$ $\frac{90}{5957}\sqrt{21e^{14}} + \frac{18}{5957}\sqrt{953e^{35}}$	$(\frac{297}{5957}, \frac{45}{5957}, -\frac{9}{259}, -\frac{9}{161}, \frac{171}{5957}, \frac{342}{5957}, \frac{90}{5957}, -\frac{288}{5957}, -\frac{36}{5957})$ $+\frac{54}{5957}\sqrt{91e^5} \otimes e_7 + \frac{99}{5957}\sqrt{22e^2} \otimes e_9 + \frac{9}{5957}\sqrt{5098e^3} \otimes e_8$	{12678, 3679}
94:13	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{165e^{12}}, \frac{6}{161}\sqrt{30e^{13}}, \frac{6}{161}\sqrt{69e^{24}},$ $\frac{6}{161}\sqrt{111e^{14}} + \frac{18}{161}\sqrt{13e^{35}}$	$(-\frac{12}{161}, \frac{9}{161}, -\frac{33}{161}, \frac{30}{161}, \frac{51}{161}, -\frac{3}{161}, -\frac{45}{161}, \frac{39}{161}, \frac{18}{161})$ $+\frac{6}{161}\sqrt{213e^2} \otimes e_7 + \frac{6}{161}\sqrt{222e^5} \otimes e_6$	{12358, 167, 246, 34578}
94:13	$0, 0, 0, 0, 0, \frac{3}{301}\sqrt{705e^{12}}, \frac{3}{301}\sqrt{370e^{13}}, \frac{6}{301}\sqrt{130e^{24}},$ $\frac{15}{301}\sqrt{15e^{14}} + \frac{6}{301}\sqrt{165e^{35}}$	$(-\frac{45}{301}, \frac{39}{301}, -\frac{3}{301}, \frac{39}{301}, -\frac{3}{301}, -\frac{6}{301}, -\frac{48}{301}, \frac{78}{301}, -\frac{6}{301})$ $+\frac{15}{301}\sqrt{41e^4} \otimes e_6 + \frac{3}{301}\sqrt{1355e^2} \otimes e_9 + \frac{3}{301}\sqrt{370e^5} \otimes e_7$	{13679, 1569, 23568, 2678}
94:13	$0, 0, 0, 0, 0, \frac{6}{707}\sqrt{259e^{12}}, \frac{27}{707}\sqrt{42e^{13}}, \frac{18}{707}\sqrt{91e^{24}},$ $\frac{3}{707}\sqrt{2478e^{14}} + \frac{6}{707}\sqrt{721e^{35}}$	$(\frac{9}{101}, -\frac{15}{101}, -\frac{3}{101}, \frac{3}{101}, \frac{15}{101}, -\frac{6}{101}, \frac{6}{101}, -\frac{12}{101}, \frac{12}{101})$ $+\frac{3}{707}\sqrt{322e^4} \otimes e_6 + \frac{3}{707}\sqrt{5222e^3} \otimes e_8 + \frac{48}{707}\sqrt{14e^5} \otimes e_7$	{12678, 3679}
94:13	$0, 0, 0, 0, 0, \frac{1}{377}\sqrt{12062e^{12}}, \frac{5}{377}\sqrt{326e^{13}}, \frac{1}{377}\sqrt{37490e^{24}},$ $\frac{1}{377}\sqrt{1630e^{14}} + \frac{2}{377}\sqrt{6846e^{35}}$	$(\frac{34}{377}, -\frac{111}{377}, -\frac{18}{377}, \frac{86}{377}, \frac{138}{377}, -\frac{77}{377}, \frac{16}{377}, -\frac{25}{377}, \frac{120}{377})$ $+\frac{1}{377}\sqrt{50530e^4} \otimes e_6 + \frac{1}{377}\sqrt{59006e^5} \otimes e_8$	{12459, 13567, 23689, 478}
94:13	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3e^{12}}, \frac{2}{11}\sqrt{3e^{13}}, \frac{2}{11}\sqrt{2e^{24}},$ $\frac{2}{11}\sqrt{3e^{14}} + \frac{2}{11}\sqrt{2e^{35}}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0)$ $+\frac{2}{11}\sqrt{5e^2} \otimes e_7 - \frac{2}{11}\sqrt{5e^3} \otimes e_6$	{12349, 12358, 1456789, 167, 246, 25689, 34578, 379}
94:13	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{51e^{12}}, \frac{1}{59}\sqrt{51e^{13}}, \frac{12}{59}\sqrt{17e^{24}},$ $\frac{9}{59}\sqrt{51e^{14}} + \frac{12}{59}\sqrt{17e^{35}}$	$(\frac{23}{59}, -\frac{14}{59}, -\frac{14}{59}, -\frac{2}{59}, \frac{35}{59}, \frac{9}{59}, \frac{9}{59}, -\frac{16}{59}, \frac{21}{59})$ $+\frac{3}{59}\sqrt{561e^5} \otimes e_8$	{124569, 1268, 134789, 1357, 2345, 2389, 4678, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:13	$0, 0, 0, 0, 0, \frac{4}{149}\sqrt{767e^{12}}, \frac{6}{149}\sqrt{177e^{13}}, \frac{2}{149}\sqrt{177e^{24}},$ $\frac{2}{149}\sqrt{2183e^{14}} + \frac{2}{149}\sqrt{3127e^{35}}$	$(-\frac{18}{149}, -\frac{31}{149}, \frac{69}{149}, \frac{58}{149}, -\frac{29}{149}, -\frac{49}{149}, \frac{51}{149}, \frac{27}{149}, \frac{40}{149})$ $+\frac{10}{149}\sqrt{295e^3} \otimes e_6$	{12349, 12358, 1456789, 167, 246, 25689, 34578, 379}
94:13	$0, 0, 0, 0, 0, \frac{10}{2809}\sqrt{8621e^{12}}, \frac{40}{2809}\sqrt{777e^{13}}, \frac{10}{2809}\sqrt{14837e^{24}},$ $\frac{20}{2809}\sqrt{2590e^{14}} + \frac{10}{2809}\sqrt{3478e^{35}}$	$(-\frac{515}{2809}, -\frac{300}{2809}, \frac{1185}{2809}, \frac{1035}{2809}, -\frac{665}{2809}, -\frac{815}{2809}, \frac{670}{2809}, \frac{735}{2809}, \frac{520}{2809})$ $+\frac{10}{2809}\sqrt{40441e^3} \otimes e_5 + \frac{10}{2809}\sqrt{51134e^4} \otimes e_6$	{1234, 12457, 23678, 2568}
94:13	$0, 0, 0, 0, 0, \frac{4}{3185}\sqrt{21030e^{12}}, \frac{2}{3185}\sqrt{660342e^{13}}, \frac{2}{3185}\sqrt{414291e^{24}},$ $\frac{2}{3185}\sqrt{701e^{14}} + \frac{2}{3185}\sqrt{166838e^{35}}$	$(\frac{831}{3185}, -\frac{69}{637}, \frac{814}{3185}, -\frac{226}{3185}, \frac{1419}{3185}, \frac{486}{3185}, \frac{17}{3185}, -\frac{571}{3185}, \frac{121}{637})$ $+\frac{2}{3185}\sqrt{904991e^5} \otimes e_7 + \frac{4}{3185}\sqrt{267782e^1} \otimes e_8$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{4}{2609}\sqrt{53130e^{12}}, \frac{22}{2609}\sqrt{1610e^{13}}, \frac{70}{2609}\sqrt{253e^{24}},$ $\frac{14}{2609}\sqrt{1265e^{14}} + \frac{2}{2609}\sqrt{301070e^{35}}$	$(-\frac{255}{2609}, -\frac{321}{2609}, -\frac{288}{2609}, \frac{1034}{2609}, \frac{1067}{2609}, -\frac{576}{2609}, -\frac{543}{2609}, \frac{713}{2609}, \frac{779}{2609})$ $+\frac{14}{2609}\sqrt{18285e^5} \otimes e_7 + \frac{8}{2609}\sqrt{58765e^4} \otimes e_6$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{541994e^{12}}, \frac{1}{1147}\sqrt{780270e^{13}}, \frac{2}{1147}\sqrt{168639e^{24}},$ $\frac{4}{1147}\sqrt{27687e^{14}} + \frac{3}{1147}\sqrt{35238e^{35}}$	$(-\frac{244}{1147}, \frac{83}{1147}, -\frac{114}{1147}, \frac{13}{31}, \frac{351}{1147}, -\frac{161}{1147}, -\frac{358}{1147}, \frac{564}{1147}, \frac{237}{1147})$ $+\frac{1}{1147}\sqrt{1652830e^4} \otimes e_7$	{12346, 126789, 1348, 179, 2378, 249, 367, 4689}
94:13	$0, 0, 0, 0, 0, \frac{3}{224}\sqrt{2e^{12}}, \frac{1}{112}\sqrt{255e^{13}}, \frac{3}{224}\sqrt{130e^{24}},$ $\frac{1}{112}\sqrt{201e^{14}} + \frac{15}{224}\sqrt{2e^{35}}$	$(\frac{1}{224}, \frac{15}{224}, \frac{1}{28}, -\frac{13}{224}, -\frac{5}{56}, \frac{1}{224}, \frac{9}{112}, \frac{1}{112}, -\frac{3}{56})$ $+\frac{1}{112}\sqrt{339e^3} \otimes e_8 + \frac{1}{224}\sqrt{1122e^2} \otimes e_7$	{123469, 145789, 2589, 3679}
94:13	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{3706e^{12}}, \frac{2}{197}\sqrt{629e^{13}}, \frac{12}{197}\sqrt{17e^{24}},$ $\frac{1}{197}\sqrt{2346e^{14}} + \frac{4}{197}\sqrt{170e^{35}}$	$(-\frac{34}{197}, \frac{27}{197}, \frac{15}{197}, \frac{27}{197}, -\frac{22}{197}, -\frac{7}{197}, -\frac{19}{197}, \frac{54}{197}, -\frac{7}{197})$ $+\frac{1}{197}\sqrt{5406e^4} \otimes e_6 + \frac{1}{197}\sqrt{6766e^2} \otimes e_9$	{123457, 124, 13679, 1569, 23568, 2678, 3489, 45789}
94:13	$0, 0, 0, 0, 0, \frac{20}{3821}\sqrt{989e^{12}}, \frac{2}{3821}\sqrt{294765e^{13}}, \frac{4}{3821}\sqrt{62565e^{24}},$ $\frac{2}{3821}\sqrt{169635e^{14}} + \frac{6}{3821}\sqrt{14835e^{35}}$	$(\frac{244}{3821}, -\frac{407}{3821}, -\frac{453}{3821}, \frac{221}{3821}, \frac{918}{3821}, -\frac{163}{3821}, -\frac{209}{3821}, -\frac{186}{3821}, \frac{465}{3821})$ $+\frac{2}{3821}\sqrt{403555e^4} \otimes e_7 + \frac{6}{3821}\sqrt{39345e^1} \otimes e_8$	{12346, 179, 2378, 4689}
94:13	$0, 0, 0, 0, 0, \frac{4}{965}\sqrt{5117e^{12}}, \frac{6}{965}\sqrt{3094e^{13}}, \frac{8}{965}\sqrt{357e^{24}},$ $\frac{1}{965}\sqrt{27251e^{14}} + \frac{16}{965}\sqrt{595e^{35}}$	$(-\frac{18}{193}, -\frac{133}{965}, \frac{3}{193}, \frac{268}{965}, \frac{163}{965}, \frac{223}{965}, \frac{15}{965}, \frac{27}{193}, \frac{178}{965})$ $+\frac{12}{965}\sqrt{1309e^5} \otimes e_7 + \frac{2}{965}\sqrt{57358e^3} \otimes e_6$	{12358, 167, 25689, 379}
94:13	$0, 0, 0, 0, 0, \frac{9}{1309}\sqrt{438e^{12}}, \frac{36}{1309}\sqrt{51e^{13}}, \frac{9}{1309}\sqrt{2766e^{24}},$ $\frac{27}{187}\sqrt{2e^{14}} + \frac{36}{1309}\sqrt{165e^{35}}$	$(\frac{72}{1309}, \frac{135}{1309}, \frac{18}{119}, -\frac{180}{1309}, -\frac{18}{77}, \frac{207}{1309}, \frac{270}{1309}, -\frac{45}{1309}, -\frac{108}{1309})$ $+\frac{144}{1309}\sqrt{15e^3} \otimes e_8 + \frac{9}{1309}\sqrt{3210e^2} \otimes e_9$	{1278, 1456789, 234567, 379}
94:13	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{5e^{12}}, \frac{1}{203}\sqrt{406e^{13}}, \frac{2}{203}\sqrt{70e^{24}},$ $\frac{1}{203}\sqrt{7e^{14}} + \frac{1}{203}\sqrt{910e^{35}}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $+\frac{1}{203}\sqrt{994e^5} \otimes e_6 + \frac{1}{29}\sqrt{10e^1} \otimes e_8 + \frac{2}{203}\sqrt{287e^2} \otimes e_9$	{123457, 13679, 2678, 45789}
94:13	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{5e^{12}}, \frac{1}{203}\sqrt{406e^{13}}, \frac{2}{203}\sqrt{70e^{24}},$ $\frac{1}{203}\sqrt{7e^{14}} + \frac{1}{203}\sqrt{910e^{35}}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $+\frac{1}{203}\sqrt{994e^5} \otimes e_6 + \frac{1}{29}\sqrt{10e^1} \otimes e_8 - \frac{2}{203}\sqrt{287e^2} \otimes e_9$	{123457, 13679, 2678, 45789}
94:13	$0, 0, 0, 0, 0, \frac{2}{3609}\sqrt{27055e^{12}}, \frac{4}{3609}\sqrt{239630e^{13}}, \frac{2}{3609}\sqrt{506315e^{24}},$ $\frac{4}{1203}\sqrt{4638e^{14}} + \frac{2}{3609}\sqrt{279826e^{35}}$	$(\frac{725}{3609}, -\frac{320}{3609}, \frac{295}{1203}, -\frac{167}{1203}, -\frac{661}{3609}, \frac{45}{401}, \frac{1610}{3609}, -\frac{821}{3609}, \frac{224}{3609})$ $+\frac{2}{3609}\sqrt{1076789e^3} \otimes e_5 + \frac{2}{3609}\sqrt{1426958e^1} \otimes e_8$	{1234, 12457, 23678, 2568}
94:13	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{285e^{12}}, \frac{20}{77}e^{13}, \frac{1}{77}\sqrt{395e^{24}},$ $\frac{1}{77}\sqrt{5e^{14}} + \frac{1}{77}\sqrt{15e^{35}}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{4}{77}, \frac{4}{77})$ $+\frac{1}{77}\sqrt{415e^3} \otimes e_8 + \frac{2}{77}\sqrt{105e^4} \otimes e_7 - \frac{5}{77}\sqrt{5e^5} \otimes e_6$	{1234569, 125678, 35679, 4568}
94:13	$0, 0, 0, 0, 0, \frac{19}{1617}\sqrt{389e^{12}}, \frac{76}{1617}\sqrt{29e^{13}}, \frac{19}{539}\sqrt{69e^{24}},$ $\frac{19}{1617}\sqrt{382e^{14}} + \frac{19}{1617}\sqrt{14e^{35}}$	$(\frac{57}{539}, -\frac{361}{1617}, -\frac{95}{1617}, \frac{57}{539}, \frac{437}{1617}, -\frac{190}{1617}, \frac{76}{1617}, -\frac{190}{1617}, \frac{114}{539})$ $+\frac{190}{1617}\sqrt{6e^5} \otimes e_7 + \frac{19}{1617}\sqrt{1057e^4} \otimes e_6 + \frac{19}{1617}\sqrt{1289e^1} \otimes e_8$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{1}{1217}\sqrt{281694e^{12}}, \frac{2}{1217}\sqrt{176853e^{13}}, \frac{30}{1217}\sqrt{706e^{24}},$ $\frac{4}{1217}\sqrt{24357e^{14}} + \frac{6}{1217}\sqrt{6001e^{35}}$	$(\frac{566}{1217}, -\frac{221}{1217}, -\frac{20}{1217}, -\frac{272}{1217}, \frac{314}{1217}, \frac{345}{1217}, \frac{546}{1217}, -\frac{493}{1217}, \frac{294}{1217})$ $+\frac{3}{1217}\sqrt{236510e^1} \otimes e_8$	{1234, 12457, 13569, 1679, 23678, 2568, 345789, 489}
94:13	$0, 0, 0, 0, 0, \frac{30}{623}\sqrt{22e^{12}}, \frac{12}{623}\sqrt{130e^{13}}, \frac{6}{623}\sqrt{566e^{24}},$ $\frac{12}{623}\sqrt{61e^{14}} + \frac{6}{623}\sqrt{138e^{35}}$	$(\frac{54}{623}, \frac{12}{623}, -\frac{114}{623}, -\frac{30}{623}, \frac{138}{623}, \frac{66}{623}, -\frac{60}{623}, -\frac{18}{623}, \frac{24}{623})$ $+\frac{12}{623}\sqrt{122e^5} \otimes e_6 + \frac{12}{623}\sqrt{210e^1} \otimes e_8 + \frac{6}{623}\sqrt{962e^2} \otimes e_7$	{167, 34578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:13	$0, 0, 0, 0, 0, \frac{2}{1139}\sqrt{89534}e^{12}, \frac{1}{1139}\sqrt{13078}e^{13}, \frac{6}{1139}\sqrt{2515}e^{24},$ $\frac{8}{1139}\sqrt{503}e^{14} + \frac{1}{1139}\sqrt{232386}e^{35}$	$(\frac{257}{1139}, -\frac{317}{1139}, -\frac{115}{1139}, \frac{71}{1139}, \frac{443}{1139}, -\frac{60}{1139}, \frac{142}{1139}, -\frac{246}{1139}, \frac{328}{1139})$ $+ \frac{1}{1139}\sqrt{467790}e^1 \otimes e_8 + \frac{1}{1139}\sqrt{548270}e^5 \otimes e_6$	{124579, 167, 236789, 34578}
94:13	$0, 0, 0, 0, 0, \frac{164}{589}\sqrt{2}e^{12}, \frac{4}{589}\sqrt{9061}e^{13}, \frac{4}{589}\sqrt{11521}e^{24},$ $\frac{8}{589}\sqrt{1763}e^{14} + \frac{24}{589}\sqrt{205}e^{35}$	$(\frac{117}{589}, -\frac{115}{589}, \frac{188}{589}, -\frac{25}{589}, -\frac{96}{589}, \frac{2}{589}, \frac{305}{589}, -\frac{140}{589}, \frac{92}{589})$ $+ \frac{4}{589}\sqrt{20705}e^3 \otimes e_8$	{123469, 12678, 135, 145789, 23457, 2589, 3679, 468}
94:13	$0, 0, 0, 0, 0, \frac{15}{1813}\sqrt{582}e^{12}, \frac{15}{1813}\sqrt{921}e^{13}, \frac{15}{1813}\sqrt{367}e^{24},$ $\frac{90}{1813}\sqrt{13}e^{14} + \frac{15}{1813}\sqrt{749}e^{35}$	$(\frac{90}{1813}, -\frac{330}{1813}, -\frac{15}{1813}, \frac{195}{1813}, \frac{300}{1813}, -\frac{240}{1813}, \frac{75}{1813}, -\frac{135}{1813}, \frac{285}{1813})$ $+ \frac{15}{1813}\sqrt{1351}e^3 \otimes e_6 + \frac{15}{1813}\sqrt{926}e^1 \otimes e_8 + \frac{30}{1813}\sqrt{265}e^5 \otimes e_7$	{167, 25689}
94:13	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{285}e^{12}, \frac{20}{77}e^{13}, \frac{1}{77}\sqrt{395}e^{24},$ $\frac{1}{77}\sqrt{5}e^{14} + \frac{1}{77}\sqrt{15}e^{35}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{4}{77}, \frac{4}{77})$ $+ \frac{1}{77}\sqrt{415}e^3 \otimes e_8 + \frac{2}{77}\sqrt{105}e^4 \otimes e_7 + \frac{5}{77}\sqrt{5}e^5 \otimes e_6$	{1234569, 125678, 35679, 4568}
94:13	$0, 0, 0, 0, 0, \frac{9}{497}\sqrt{21}e^{12}, \frac{3}{497}\sqrt{149}e^{13}, \frac{18}{497}\sqrt{7}e^{24},$ $\frac{3}{71}e^{14} + \frac{6}{497}\sqrt{70}e^{35}$	$(-\frac{9}{497}, \frac{12}{497}, -\frac{30}{497}, \frac{12}{497}, \frac{33}{497}, \frac{3}{497}, -\frac{39}{497}, \frac{24}{497}, \frac{3}{497})$ $+ \frac{15}{497}\sqrt{11}e^5 \otimes e_8 - \frac{3}{497}\sqrt{254}e^4 \otimes e_6 + \frac{3}{497}\sqrt{394}e^2 \otimes e_9$	{123457, 1569, 2678, 3489}
94:13	$0, 0, 0, 0, 0, \frac{20}{3869}\sqrt{791}e^{12}, \frac{20}{3869}\sqrt{2443}e^{13}, \frac{100}{3869}\sqrt{91}e^{24},$ $\frac{10}{3869}\sqrt{7259}e^{14} + \frac{30}{3869}\sqrt{910}e^{35}$	$(\frac{396}{3869}, -\frac{545}{3869}, -\frac{155}{3869}, \frac{40}{3869}, \frac{591}{3869}, -\frac{149}{3869}, \frac{241}{3869}, -\frac{505}{3869}, \frac{436}{3869})$ $+ \frac{20}{3869}\sqrt{3689}e^3 \otimes e_8 + \frac{270}{3869}\sqrt{14}e^5 \otimes e_7$	{12678, 135, 2589, 3679}
94:13	$0, 0, 0, 0, 0, \frac{1}{113}\sqrt{533}e^{12}, \frac{2}{113}\sqrt{902}e^{13}, \frac{1}{113}\sqrt{2337}e^{24},$ $\frac{1}{113}\sqrt{1763}e^{14} + \frac{2}{113}\sqrt{82}e^{35}$	$(-\frac{37}{226}, \frac{71}{226}, \frac{13}{226}, \frac{7}{226}, -\frac{28}{113}, \frac{17}{113}, -\frac{11}{226}, \frac{39}{113}, -\frac{15}{113})$ $+ \frac{1}{113}\sqrt{3485}e^3 \otimes e_5 + \frac{2}{113}\sqrt{1230}e^2 \otimes e_7$	{1238, 1567, 2456, 3478}
94:13	$0, 0, 0, 0, 0, \frac{19}{1213}\sqrt{1702}e^{12}, \frac{4}{1213}\sqrt{26381}e^{13}, \frac{1}{1213}\sqrt{403374}e^{24},$ $\frac{1}{1213}\sqrt{239982}e^{14} + \frac{4}{1213}\sqrt{46805}e^{35}$	$(-\frac{56}{1213}, \frac{615}{1213}, \frac{6}{1213}, -\frac{180}{1213}, -\frac{242}{1213}, \frac{559}{1213}, -\frac{50}{1213}, \frac{435}{1213}, -\frac{236}{1213})$ $+ \frac{1}{1213}\sqrt{1727530}e^2 \otimes e_9$	{123457, 124, 13679, 1569, 23568, 2678, 3489, 45789}
94:13	$0, 0, 0, 0, 0, \frac{2}{571}\sqrt{60554}e^{12}, \frac{2}{571}\sqrt{26078}e^{13}, \frac{2}{571}\sqrt{6630}e^{24},$ $\frac{2}{571}\sqrt{22763}e^{14} + \frac{4}{571}\sqrt{14586}e^{35}$	$(\frac{28}{571}, -\frac{163}{571}, -\frac{65}{571}, \frac{214}{571}, \frac{307}{571}, \frac{135}{571}, -\frac{37}{571}, \frac{51}{571}, \frac{242}{571})$ $+ \frac{14}{571}\sqrt{2210}e^5 \otimes e_6$	{12357, 124589, 134679, 168, 2369, 24678, 345, 5789}
94:13	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{3706}e^{12}, \frac{2}{197}\sqrt{629}e^{13}, \frac{12}{197}\sqrt{17}e^{24},$ $\frac{1}{197}\sqrt{2346}e^{14} + \frac{4}{197}\sqrt{170}e^{35}$	$(-\frac{34}{197}, \frac{27}{197}, \frac{15}{197}, \frac{27}{197}, -\frac{22}{197}, -\frac{7}{197}, -\frac{19}{197}, \frac{54}{197}, -\frac{7}{197})$ $- \frac{1}{197}\sqrt{5406}e^4 \otimes e_6 + \frac{1}{197}\sqrt{6766}e^2 \otimes e_9$	{123457, 124, 13679, 1569, 23568, 2678, 3489, 45789}
94:13	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{329}e^{12}, \frac{3}{203}\sqrt{210}e^{13}, \frac{2}{203}\sqrt{357}e^{24},$ $\frac{2}{29}\sqrt{6}e^{14} + \frac{3}{203}\sqrt{154}e^{35}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $+ \frac{1}{203}\sqrt{1302}e^5 \otimes e_6 + \frac{2}{203}\sqrt{574}e^4 \otimes e_7 + \frac{3}{203}\sqrt{182}e^1 \otimes e_8$	{179, 2378}
94:13	$0, 0, 0, 0, 0, \frac{11}{1757}\sqrt{830}e^{12}, \frac{33}{1757}\sqrt{29}e^{13}, \frac{11}{1757}\sqrt{321}e^{24},$ $\frac{11}{1757}\sqrt{422}e^{14} + \frac{55}{251}e^{35}$	$(-\frac{198}{1757}, \frac{110}{1757}, \frac{33}{1757}, \frac{187}{1757}, -\frac{44}{1757}, -\frac{88}{1757}, -\frac{165}{1757}, \frac{297}{1757}, -\frac{11}{1757})$ $+ \frac{11}{1757}\sqrt{1279}e^3 \otimes e_6 + \frac{132}{1757}\sqrt{6}e^5 \otimes e_7 + \frac{33}{1757}\sqrt{122}e^2 \otimes e_9$	{12358, 379}
94:13	$0, 0, 0, 0, 0, \frac{19}{1617}\sqrt{389}e^{12}, \frac{76}{1617}\sqrt{29}e^{13}, \frac{19}{539}\sqrt{69}e^{24},$ $\frac{19}{1617}\sqrt{382}e^{14} + \frac{19}{1617}\sqrt{14}e^{35}$	$(\frac{57}{539}, -\frac{361}{1617}, -\frac{95}{1617}, \frac{57}{539}, \frac{437}{1617}, -\frac{190}{1617}, \frac{76}{1617}, -\frac{190}{1617}, \frac{114}{539})$ $+ \frac{190}{1617}\sqrt{6}e^5 \otimes e_7 - \frac{19}{1617}\sqrt{1057}e^4 \otimes e_6 + \frac{19}{1617}\sqrt{1289}e^1 \otimes e_8$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{2}{203}\sqrt{10}e^{12}, \frac{3}{203}\sqrt{154}e^{13}, \frac{1}{203}\sqrt{210}e^{24},$ $\frac{1}{203}\sqrt{462}e^{14} + \frac{3}{203}\sqrt{210}e^{35}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $+ \frac{1}{203}\sqrt{1974}e^5 \otimes e_6 + \frac{2}{29}\sqrt{5}e^4 \otimes e_7 + \frac{3}{203}\sqrt{182}e^2 \otimes e_9$	{134679, 24678}
94:13	$0, 0, 0, 0, 0, \frac{2}{447}\sqrt{2482}e^{12}, \frac{1}{447}\sqrt{8906}e^{13}, \frac{1}{447}\sqrt{19418}e^{24},$ $\frac{2}{447}\sqrt{730}e^{14} + \frac{4}{447}\sqrt{1606}e^{35}$	$(\frac{18}{149}, \frac{55}{447}, -\frac{74}{447}, -\frac{24}{149}, \frac{56}{447}, \frac{109}{447}, -\frac{20}{447}, -\frac{17}{447}, -\frac{6}{149})$ $+ \frac{1}{447}\sqrt{27886}e^5 \otimes e_8 + \frac{1}{447}\sqrt{31390}e^2 \otimes e_9$	{128, 1346789, 23456, 579}
94:13	$0, 0, 0, 0, 0, \frac{3}{259}\sqrt{10}e^{12}, \frac{2}{259}\sqrt{651}e^{13}, \frac{3}{259}\sqrt{70}e^{24},$ $\frac{3}{259}\sqrt{42}e^{14} + \frac{2}{259}\sqrt{1155}e^{35}$	$(-\frac{2}{37}, \frac{3}{37}, -\frac{4}{37}, \frac{2}{37}, \frac{4}{37}, \frac{1}{37}, -\frac{6}{37}, \frac{5}{37}, 0)$ $+ \frac{11}{259}\sqrt{42}e^2 \otimes e_9 + \frac{2}{259}\sqrt{1239}e^5 \otimes e_6$	{123578, 1346789, 2467, 579}
94:13	$0, 0, 0, 0, 0, \frac{1}{489}\sqrt{22331}e^{12}, \frac{2}{489}\sqrt{3014}e^{13}, \frac{1}{163}\sqrt{3151}e^{24},$ $\frac{1}{489}\sqrt{26578}e^{14} + \frac{1}{489}\sqrt{8494}e^{35}$	$(\frac{19}{163}, -\frac{137}{489}, \frac{35}{489}, \frac{19}{163}, \frac{79}{489}, -\frac{80}{489}, \frac{92}{489}, -\frac{80}{489}, \frac{38}{163})$ $+ \frac{1}{489}\sqrt{57403}e^4 \otimes e_6 + \frac{1}{489}\sqrt{63431}e^1 \otimes e_8$	{1234, 12457, 13569, 1679, 23678, 2568, 345789, 489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:13	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{167118}e^{12}, \frac{2}{1193}\sqrt{71449}e^{13}, \frac{7}{1193}\sqrt{10726}e^{24},$ $\frac{14}{1193}\sqrt{3287}e^{14} + \frac{2}{1193}\sqrt{12110}e^{35}$	$(-\frac{216}{1193}, -\frac{285}{1193}, \frac{306}{1193}, \frac{710}{1193}, \frac{188}{1193}, -\frac{501}{1193}, \frac{90}{1193}, \frac{425}{1193}, \frac{494}{1193})$ $+ \frac{1}{1193}\sqrt{2385670}e^4 \otimes e_6$	{123457, 124, 13679, 1569, 23568, 2678, 3489, 45789}
94:13	$0, 0, 0, 0, 0, \frac{4}{297}\sqrt{314}e^{12}, \frac{2}{99}\sqrt{1570}e^{13}, \frac{2}{297}\sqrt{5809}e^{24},$ $\frac{2}{297}\sqrt{8007}e^{14} + \frac{2}{297}\sqrt{13502}e^{35}$	$(\frac{7}{99}, \frac{23}{297}, -\frac{124}{297}, \frac{2}{9}, \frac{211}{297}, \frac{4}{27}, -\frac{103}{297}, \frac{89}{297}, \frac{29}{99})$ $+ \frac{14}{297}\sqrt{785}e^5 \otimes e_7$	{123568, 12678, 135, 17, 23789, 2589, 3679, 569}
94:13	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{2}{11}\sqrt{3}e^{13}, \frac{2}{11}\sqrt{2}e^{24},$ $\frac{2}{11}\sqrt{3}e^{14} + \frac{2}{11}\sqrt{2}e^{35}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, 0)$ $+ \frac{2}{11}\sqrt{5}e^2 \otimes e_7 + \frac{1}{11}\sqrt{5}e^3 \otimes e_6$	{12349, 12358, 1456789, 167, 246, 25689, 34578, 379}
94:13	$0, 0, 0, 0, 0, \frac{9}{497}\sqrt{21}e^{12}, \frac{3}{497}\sqrt{149}e^{13}, \frac{18}{497}\sqrt{7}e^{24},$ $\frac{3}{71}e^{14} + \frac{6}{497}\sqrt{70}e^{35}$	$(-\frac{9}{497}, \frac{12}{497}, -\frac{30}{497}, \frac{12}{497}, \frac{33}{497}, \frac{3}{497}, -\frac{39}{497}, \frac{24}{497}, \frac{3}{497})$ $+ \frac{15}{497}\sqrt{11}e^5 \otimes e_8 + \frac{3}{497}\sqrt{254}e^4 \otimes e_6 + \frac{3}{497}\sqrt{394}e^2 \otimes e_9$	{123457, 1569, 2678, 3489}
94:13	$0, 0, 0, 0, 0, \frac{12}{803}\sqrt{662}e^{12}, \frac{48}{803}\sqrt{29}e^{13}, \frac{12}{803}\sqrt{894}e^{24},$ $\frac{24}{803}\sqrt{33}e^{14} + \frac{12}{803}\sqrt{2}e^{35}$	$(-\frac{164}{803}, \frac{92}{803}, -\frac{32}{803}, \frac{216}{803}, \frac{84}{803}, -\frac{72}{803}, -\frac{196}{803}, \frac{28}{803}, \frac{52}{803})$ $+ \frac{12}{803}\sqrt{1586}e^2 \otimes e_7 + \frac{24}{803}\sqrt{322}e^4 \otimes e_6$	{12349, 167, 25689, 34578}
94:13	$0, 0, 0, 0, 0, \frac{6}{149}\sqrt{177}e^{12}, \frac{4}{149}\sqrt{767}e^{13}, \frac{2}{149}\sqrt{3127}e^{24},$ $\frac{2}{149}\sqrt{2183}e^{14} + \frac{2}{149}\sqrt{177}e^{35}$	$(-\frac{18}{149}, \frac{69}{149}, -\frac{31}{149}, \frac{8}{149}, \frac{21}{149}, \frac{51}{149}, -\frac{49}{149}, \frac{77}{149}, -\frac{10}{149})$ $+ \frac{10}{149}\sqrt{295}e^2 \otimes e_7$	{12349, 12358, 1456789, 167, 246, 25689, 34578, 379}
94:13	$0, 0, 0, 0, 0, \frac{3}{221}\sqrt{805}e^{12}, \frac{2}{221}\sqrt{3243}e^{13}, \frac{3}{221}\sqrt{851}e^{24},$ $\frac{3}{221}\sqrt{391}e^{14} + \frac{2}{221}\sqrt{1173}e^{35}$	$(-\frac{99}{442}, \frac{29}{442}, \frac{3}{17}, \frac{9}{34}, -\frac{30}{221}, -\frac{35}{221}, -\frac{21}{442}, \frac{73}{221}, \frac{9}{221})$ $+ \frac{1}{221}\sqrt{11247}e^3 \otimes e_5 + \frac{2}{221}\sqrt{4209}e^4 \otimes e_7$	{12346, 1348, 2378, 367}
94:13	$0, 0, 0, 0, 0, \frac{4}{739}\sqrt{127}e^{12}, \frac{2}{739}\sqrt{8509}e^{13}, \frac{2}{739}\sqrt{25527}e^{24},$ $\frac{4}{739}\sqrt{4191}e^{14} + \frac{2}{739}\sqrt{9017}e^{35}$	$(-\frac{122}{739}, \frac{207}{739}, -\frac{57}{739}, \frac{75}{739}, \frac{10}{739}, \frac{85}{739}, -\frac{179}{739}, \frac{282}{739}, -\frac{47}{739})$ $+ \frac{2}{739}\sqrt{41529}e^4 \otimes e_7 + \frac{2}{739}\sqrt{42037}e^2 \otimes e_9$	{12345, 15679, 235678, 4589}
94:13	$0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{385}e^{12}, \frac{100}{2209}\sqrt{11}e^{13}, \frac{550}{2209}\sqrt{3}e^{24},$ $\frac{100}{2209}\sqrt{33}e^{14} + \frac{50}{2209}\sqrt{506}e^{35}$	$(-\frac{185}{2209}, \frac{858}{2209}, \frac{429}{2209}, -\frac{207}{2209}, \frac{821}{2209}, \frac{673}{2209}, \frac{244}{2209}, \frac{651}{2209}, -\frac{392}{2209})$ $+ \frac{150}{2209}\sqrt{67}e^3 \otimes e_5 + \frac{50}{2209}\sqrt{1318}e^2 \otimes e_9$	{13679, 1569, 3489, 45789}
94:13	$0, 0, 0, 0, 0, \frac{3}{301}\sqrt{705}e^{12}, \frac{3}{301}\sqrt{370}e^{13}, \frac{6}{301}\sqrt{130}e^{24},$ $\frac{15}{301}\sqrt{15}e^{14} + \frac{3}{301}\sqrt{165}e^{35}$	$(-\frac{45}{301}, \frac{39}{301}, -\frac{3}{301}, \frac{39}{301}, -\frac{3}{301}, -\frac{6}{301}, -\frac{48}{301}, \frac{78}{301}, -\frac{6}{301})$ $- \frac{15}{301}\sqrt{41}e^4 \otimes e_6 + \frac{3}{301}\sqrt{1355}e^2 \otimes e_9 + \frac{3}{301}\sqrt{370}e^5 \otimes e_7$	{13679, 1569, 23568, 2678}
94:13	$0, 0, 0, 0, 0, \frac{8}{3071}\sqrt{5385}e^{12}, \frac{60}{3071}\sqrt{166}e^{13}, \frac{4}{3071}\sqrt{39630}e^{24},$ $\frac{24}{3071}\sqrt{145}e^{14} + \frac{24}{3071}\sqrt{190}e^{35}$	$(-\frac{115}{3071}, -\frac{365}{3071}, \frac{282}{3071}, \frac{11}{83}, \frac{10}{3071}, -\frac{480}{3071}, \frac{167}{3071}, \frac{42}{3071}, \frac{292}{3071})$ $+ \frac{4}{3071}\sqrt{45510}e^3 \otimes e_8 + \frac{8}{3071}\sqrt{9870}e^4 \otimes e_7$	{123469, 12678, 3679, 468}
94:13	$0, 0, 0, 0, 0, \frac{1}{489}\sqrt{22331}e^{12}, \frac{2}{489}\sqrt{3014}e^{13}, \frac{1}{163}\sqrt{3151}e^{24},$ $\frac{1}{489}\sqrt{26578}e^{14} + \frac{1}{489}\sqrt{8494}e^{35}$	$(\frac{19}{163}, \frac{137}{489}, \frac{35}{489}, \frac{19}{163}, \frac{79}{489}, -\frac{80}{489}, \frac{92}{489}, -\frac{80}{489}, \frac{38}{163})$ $- \frac{1}{489}\sqrt{57403}e^4 \otimes e_6 + \frac{1}{489}\sqrt{63431}e^1 \otimes e_8$	{1234, 12457, 13569, 1679, 23678, 2568, 345789, 489}
94:13	$0, 0, 0, 0, 0, \frac{2}{817}\sqrt{17574}e^{12}, \frac{2}{817}\sqrt{505}e^{13}, \frac{1}{817}\sqrt{71306}e^{24},$ $\frac{1}{817}\sqrt{45854}e^{14} + \frac{22}{817}\sqrt{101}e^{35}$	$(\frac{131}{817}, \frac{131}{817}, -\frac{2}{43}, -\frac{202}{817}, -\frac{33}{817}, \frac{262}{817}, \frac{93}{817}, -\frac{71}{817}, -\frac{71}{817})$ $+ \frac{1}{817}\sqrt{135542}e^1 \otimes e_8 - \frac{1}{817}\sqrt{158974}e^2 \otimes e_9$	{12345, 1247, 1369, 15679, 235678, 268, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{2}{817}\sqrt{17574}e^{12}, \frac{2}{817}\sqrt{505}e^{13}, \frac{1}{817}\sqrt{71306}e^{24},$ $\frac{1}{817}\sqrt{45854}e^{14} + \frac{22}{817}\sqrt{101}e^{35}$	$(\frac{131}{817}, \frac{131}{817}, -\frac{2}{43}, -\frac{202}{817}, -\frac{33}{817}, \frac{262}{817}, \frac{93}{817}, -\frac{71}{817}, -\frac{71}{817})$ $+ \frac{1}{817}\sqrt{135542}e^1 \otimes e_8 + \frac{1}{817}\sqrt{158974}e^2 \otimes e_9$	{12345, 1247, 1369, 15679, 235678, 268, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{15}e^{13}, \frac{5}{49}\sqrt{6}e^{24},$ $\frac{5}{49}\sqrt{2}e^{14} + \frac{2}{49}\sqrt{35}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{254}e^1 \otimes e_8 + \frac{1}{7}\sqrt{6}e^2 \otimes e_9 + \frac{2}{49}\sqrt{41}e^5 \otimes e_7$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{15}e^{13}, \frac{5}{49}\sqrt{6}e^{24},$ $\frac{5}{49}\sqrt{2}e^{14} + \frac{2}{49}\sqrt{35}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{254}e^1 \otimes e_8 - \frac{1}{7}\sqrt{6}e^2 \otimes e_9 + \frac{2}{49}\sqrt{41}e^5 \otimes e_7$	{12345, 1247, 34789, 4589}
94:13	$0, 0, 0, 0, 0, \frac{11}{1169}\sqrt{97}e^{12}, \frac{11}{1169}\sqrt{19}e^{13}, \frac{22}{1169}\sqrt{183}e^{24},$ $\frac{11}{1169}\sqrt{5}e^{14} + \frac{22}{1169}\sqrt{151}e^{35}$	$(\frac{33}{1169}, \frac{110}{1169}, -\frac{198}{1169}, -\frac{44}{1169}, \frac{187}{1169}, \frac{143}{1169}, -\frac{165}{1169}, \frac{66}{1169}, -\frac{11}{1169})$ $+ \frac{110}{1169}\sqrt{5}e^4 \otimes e_7 + \frac{11}{1169}\sqrt{789}e^5 \otimes e_8 + \frac{22}{1169}\sqrt{215}e^2 \otimes e_9$	{2678, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:13	$0, 0, 0, 0, 0, \frac{4}{2889}\sqrt{66670}e^{12}, \frac{2}{963}\sqrt{1130}e^{13}, \frac{2}{2889}\sqrt{261595}e^{24},$ $\frac{10}{2889}\sqrt{339}e^{14} + \frac{2}{2889}\sqrt{550310}e^{35}$	$(-\frac{35}{963}, \frac{911}{2889}, -\frac{622}{2889}, -\frac{38}{963}, \frac{403}{2889}, \frac{806}{2889}, -\frac{727}{2889}, \frac{797}{2889}, -\frac{73}{963})$ $+\frac{2}{2889}\sqrt{589295}e^5 \otimes e_7 + \frac{4}{963}\sqrt{23730}e^2 \otimes e_9$	{1346789, 145689, 23456, 2467}
94:13	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{1}{15}\sqrt{3}e^{13}, \frac{1}{5}e^{24},$ $\frac{1}{15}\sqrt{6}e^{14} + \frac{1}{15}\sqrt{33}e^{35}$	$(-\frac{2}{15}, \frac{2}{15}, \frac{1}{5}, \frac{1}{15}, -\frac{4}{15}, 0, \frac{1}{15}, \frac{1}{5}, -\frac{1}{15})$ $+\frac{1}{15}\sqrt{39}e^3 \otimes e_6 + \frac{1}{15}\sqrt{42}e^2 \otimes e_9$	{123578, 145689, 2467, 39}
94:13	$0, 0, 0, 0, 0, \frac{5}{383}\sqrt{910}e^{12}, \frac{20}{383}\sqrt{55}e^{13}, \frac{10}{383}\sqrt{115}e^{24},$ $\frac{20}{383}\sqrt{15}e^{14} + \frac{10}{383}\sqrt{130}e^{35}$	$(\frac{50}{383}, -\frac{95}{383}, \frac{80}{383}, \frac{20}{383}, -\frac{10}{383}, -\frac{45}{383}, \frac{130}{383}, -\frac{75}{383}, \frac{70}{383})$ $+\frac{10}{383}\sqrt{445}e^3 \otimes e_6 + \frac{5}{383}\sqrt{1630}e^1 \otimes e_8$	{12349, 167, 25689, 34578}
94:13	$0, 0, 0, 0, 0, \frac{6}{1151}\sqrt{427}e^{12}, \frac{1}{1151}\sqrt{204106}e^{13}, \frac{14}{1151}\sqrt{1891}e^{24},$ $\frac{7}{1151}\sqrt{2318}e^{14} + \frac{2}{1151}\sqrt{49105}e^{35}$	$(\frac{43}{1151}, -\frac{285}{1151}, \frac{327}{1151}, \frac{185}{1151}, -\frac{99}{1151}, -\frac{242}{1151}, \frac{370}{1151}, -\frac{100}{1151}, \frac{228}{1151})$ $+\frac{1}{1151}\sqrt{303170}e^4 \otimes e_6 + \frac{7}{1151}\sqrt{11590}e^3 \otimes e_8$	{12678, 145789, 23457, 3679}
94:13	$0, 0, 0, 0, 0, \frac{50}{811}\sqrt{22}e^{12}, \frac{30}{811}\sqrt{110}e^{13}, \frac{20}{811}\sqrt{330}e^{24},$ $\frac{10}{811}\sqrt{330}e^{14} + \frac{30}{811}\sqrt{110}e^{35}$	$(-\frac{85}{811}, -\frac{85}{811}, -\frac{96}{811}, \frac{319}{811}, \frac{330}{811}, -\frac{170}{811}, -\frac{181}{811}, \frac{234}{811}, \frac{234}{811})$ $+\frac{10}{811}\sqrt{3270}e^5 \otimes e_6 + \frac{20}{811}\sqrt{955}e^4 \otimes e_7$	{12345, 125789, 357, 4589}
94:14	$0, 0, 0, 0, 0, \frac{1}{1333}\sqrt{71394}e^{12}, \frac{1}{1333}\sqrt{215934}e^{13}, \frac{4}{1333}\sqrt{15549}e^{24},$ $\frac{15}{1333}\sqrt{438}e^{15} + \frac{4}{1333}\sqrt{5694}e^{34}$	$(\frac{242}{1333}, -\frac{9}{43}, -\frac{159}{1333}, \frac{302}{1333}, -\frac{99}{1333}, -\frac{37}{1333}, \frac{83}{1333}, \frac{23}{1333}, \frac{143}{1333})$ $+\frac{1}{1333}\sqrt{293898}e^1 \otimes e_8 + \frac{4}{1333}\sqrt{14673}e^4 \otimes e_7$	{123469, 179, 2378, 468}
94:14	$0, 0, 0, 0, 0, \frac{1}{971}\sqrt{647770}e^{12}, \frac{7}{971}\sqrt{6330}e^{13}, \frac{1}{971}\sqrt{128710}e^{24},$ $\frac{2}{971}\sqrt{136095}e^{15} + \frac{1}{971}\sqrt{78070}e^{34}$	$(-\frac{257}{971}, -\frac{85}{971}, \frac{271}{971}, \frac{185}{971}, \frac{713}{971}, -\frac{342}{971}, \frac{14}{971}, \frac{100}{971}, \frac{456}{971})$ $+\frac{90}{971}\sqrt{211}e^5 \otimes e_6$	{1234578, 125, 136789, 1469, 23468, 267, 3589, 4579}
94:14	$0, 0, 0, 0, 0, \frac{19}{4109}\sqrt{986}e^{12}, \frac{57}{4109}\sqrt{62}e^{13}, \frac{19}{4109}\sqrt{3166}e^{24},$ $\frac{76}{4109}\sqrt{143}e^{15} + \frac{19}{587}\sqrt{6}e^{34}$	$(-\frac{627}{4109}, \frac{437}{4109}, \frac{171}{4109}, -\frac{95}{4109}, \frac{703}{4109}, -\frac{190}{4109}, -\frac{456}{4109}, \frac{342}{4109}, \frac{76}{4109})$ $+\frac{228}{4109}\sqrt{17}e^2 \otimes e_9 + \frac{38}{4109}\sqrt{519}e^4 \otimes e_7 + \frac{76}{4109}\sqrt{193}e^5 \otimes e_8$	{13489, 2378}
94:14	$0, 0, 0, 0, 0, \frac{5}{401}\sqrt{590}e^{12}, \frac{5}{401}\sqrt{310}e^{13}, \frac{25}{401}\sqrt{30}e^{24},$ $\frac{20}{401}\sqrt{35}e^{15} + \frac{15}{401}\sqrt{130}e^{34}$	$(\frac{5}{401}, -\frac{95}{401}, \frac{65}{401}, \frac{35}{401}, \frac{95}{401}, -\frac{90}{401}, \frac{70}{401}, -\frac{60}{401}, \frac{100}{401})$ $+\frac{10}{401}\sqrt{435}e^3 \otimes e_8 + \frac{10}{401}\sqrt{470}e^4 \otimes e_6$	{1234, 13569, 2568, 489}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{2}{35}\sqrt{14}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, 0, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^4 \otimes e_7 + \frac{2}{35}\sqrt{35}e^5 \otimes e_6$	{13679, 14689, 2346, 2678}
94:14	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{10}e^{12}, \frac{1}{203}\sqrt{14}e^{13}, \frac{1}{203}\sqrt{574}e^{24},$ $\frac{203}{203}\sqrt{203}e^{15} + \frac{1}{203}\sqrt{70}e^{34}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{3}{29}, -\frac{3}{29}, \frac{1}{29}, 0, \frac{2}{29}, -\frac{2}{29}, 0)$ $-\frac{10}{203}\sqrt{7}e^5 \otimes e_6 + \frac{2}{203}\sqrt{238}e^2 \otimes e_9 + \frac{2}{29}\sqrt{5}e^1 \otimes e_8$	{1245, 169, 2368, 34589}
94:14	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10}e^{12}, \frac{1}{8}\sqrt{5}e^{13}, \frac{1}{8}\sqrt{10}e^{24},$ $\frac{1}{8}\sqrt{5}e^{15} + \frac{1}{8}\sqrt{10}e^{34}$	$(-\frac{1}{8}, -\frac{1}{8}, -\frac{1}{16}, \frac{3}{8}, \frac{7}{16}, -\frac{1}{4}, -\frac{3}{16}, \frac{1}{4}, \frac{5}{16})$ $+\frac{1}{4}\sqrt{10}e^4 \otimes e_6 + \frac{1}{8}\sqrt{30}e^5 \otimes e_7$	{12345, 12479, 3478, 4589}
94:14	$0, 0, 0, 0, 0, \frac{1}{1615}\sqrt{1634}e^{12}, \frac{3}{1615}\sqrt{5762}e^{13}, \frac{1}{1615}\sqrt{59426}e^{24},$ $\frac{4}{1615}\sqrt{1419}e^{15} + \frac{3}{1615}\sqrt{4558}e^{34}$	$(\frac{3}{95}, \frac{1}{17}, \frac{1}{1615}, -\frac{87}{1615}, -\frac{137}{1615}, \frac{146}{1615}, \frac{52}{1615}, \frac{8}{1615}, -\frac{86}{1615})$ $+\frac{18}{1615}\sqrt{215}e^1 \otimes e_8 + \frac{2}{1615}\sqrt{14577}e^2 \otimes e_7$	{12349, 1679, 25689, 345789}
94:14	$0, 0, 0, 0, 0, \frac{2}{693}\sqrt{35}e^{12}, \frac{2}{693}\sqrt{210}e^{13}, \frac{4}{231}\sqrt{7}e^{24},$ $\frac{2}{231}\sqrt{14}e^{15} + \frac{2}{693}\sqrt{718}e^{34}$	$(-\frac{1}{77}, \frac{4}{231}, \frac{19}{693}, -\frac{23}{693}, \frac{5}{693}, \frac{1}{231}, \frac{10}{693}, -\frac{1}{63}, -\frac{4}{693})$ $+\frac{1}{693}\sqrt{326}e^5 \otimes e_6 + \frac{1}{693}\sqrt{998}e^2 \otimes e_7 + \frac{25}{693}\sqrt{2}e^1 \otimes e_8$	{1679, 345789}
94:14	$0, 0, 0, 0, 0, \frac{2}{3145}\sqrt{302534}e^{12}, \frac{2}{3145}\sqrt{481678}e^{13}, \frac{4}{3145}\sqrt{55754}e^{24},$ $\frac{2}{3145}\sqrt{175031}e^{15} + \frac{4}{3145}\sqrt{33818}e^{34}$	$(\frac{253}{3145}, \frac{8}{37}, -\frac{487}{3145}, \frac{79}{3145}, -\frac{661}{3145}, \frac{933}{3145}, -\frac{234}{3145}, \frac{759}{3145}, -\frac{24}{185})$ $+\frac{2}{3145}\sqrt{600955}e^1 \otimes e_5 + \frac{2}{3145}\sqrt{712463}e^2 \otimes e_7$	{1238, 14678, 2456, 357}
94:14	$0, 0, 0, 0, 0, \frac{21}{776}\sqrt{30}e^{12}, \frac{3}{776}\sqrt{3005}e^{13}, \frac{3}{776}\sqrt{2930}e^{24},$ $\frac{3}{776}\sqrt{3005}e^{15} + \frac{9}{776}\sqrt{310}e^{34}$	$(-\frac{1}{776}, -\frac{89}{776}, \frac{71}{1552}, \frac{43}{776}, \frac{159}{1552}, -\frac{45}{388}, \frac{69}{1552}, -\frac{23}{388}, \frac{157}{1552})$ $+\frac{3}{776}\sqrt{3230}e^5 \otimes e_7 + \frac{9}{388}\sqrt{110}e^1 \otimes e_8$	{135, 179, 2378, 2589}
94:14	$0, 0, 0, 0, 0, \frac{1}{995}\sqrt{179546}e^{12}, \frac{3}{995}\sqrt{68798}e^{13}, \frac{1}{995}\sqrt{592334}e^{24},$ $\frac{4}{995}\sqrt{5034}e^{15} + \frac{3}{995}\sqrt{31882}e^{34}$	$(-\frac{267}{995}, \frac{107}{199}, -\frac{37}{995}, -\frac{21}{995}, \frac{209}{995}, \frac{268}{995}, -\frac{304}{995}, \frac{514}{995}, -\frac{58}{995})$ $+\frac{2}{995}\sqrt{349863}e^2 \otimes e_7$	{123459, 1238, 14678, 15679, 2456, 2689, 34789, 357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{2}{35}\sqrt{14}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, 0, 0, \frac{1}{5}, 0, -\frac{1}{5}, \frac{1}{5}, 0)$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^4 \otimes e_7 - \frac{2}{35}\sqrt{35}e^5 \otimes e_6$	{13679, 14689, 2346, 2678}
94:14	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{10}e^{12}, \frac{1}{203}\sqrt{14}e^{13}, \frac{1}{203}\sqrt{574}e^{24},$ $\frac{1}{203}\sqrt{203}e^{15} + \frac{1}{203}\sqrt{70}e^{34}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{3}{29}, -\frac{3}{29}, \frac{1}{29}, 0, \frac{2}{29}, -\frac{2}{29}, 0)$ $+\frac{10}{203}\sqrt{7}e^5 \otimes e_6 + \frac{2}{203}\sqrt{238}e^2 \otimes e_9 + \frac{2}{29}\sqrt{5}e^1 \otimes e_8$	{1245, 169, 2368, 34589}
94:14	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1463}e^{12}, \frac{1}{215}\sqrt{8778}e^{13}, \frac{7}{215}\sqrt{209}e^{24},$ $\frac{1}{215}\sqrt{4389}e^{15} + \frac{1}{215}\sqrt{4389}e^{34}$	$(-\frac{28}{215}, -\frac{17}{215}, \frac{88}{215}, -\frac{28}{215}, \frac{88}{215}, -\frac{9}{43}, \frac{12}{43}, -\frac{9}{43}, \frac{12}{43})$ $-\frac{1}{215}\sqrt{20615}e^5 \otimes e_6 + \frac{1}{215}\sqrt{29393}e^3 \otimes e_8$	{12345, 12578, 1369, 146789, 23467, 268, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{32}{2287}\sqrt{1402}e^{12}, \frac{32}{2287}\sqrt{102}e^{13}, \frac{32}{2287}\sqrt{218}e^{24},$ $\frac{192}{2287}\sqrt{7}e^{15} + \frac{64}{2287}\sqrt{211}e^{34}$	$(\frac{320}{2287}, \frac{640}{2287}, -\frac{112}{2287}, -\frac{272}{2287}, -\frac{704}{2287}, \frac{960}{2287}, \frac{208}{2287}, \frac{368}{2287}, -\frac{384}{2287})$ $+\frac{32}{2287}\sqrt{2382}e^2 \otimes e_9 + \frac{96}{2287}\sqrt{186}e^1 \otimes e_5$	{13679, 14689, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{11}{1279}\sqrt{690}e^{12}, \frac{11}{1279}\sqrt{1146}e^{13}, \frac{11}{1279}\sqrt{1974}e^{24},$ $\frac{66}{1279}\sqrt{69}e^{15} + \frac{11}{1279}\sqrt{1614}e^{34}$	$(\frac{113}{1279}, -\frac{317}{1279}, \frac{205}{1279}, \frac{67}{1279}, \frac{159}{1279}, -\frac{204}{1279}, \frac{318}{1279}, -\frac{250}{1279}, \frac{272}{1279})$ $+\frac{22}{1279}\sqrt{1059}e^1 \otimes e_8 + \frac{22}{1279}\sqrt{669}e^5 \otimes e_6$	{12457, 1679, 23678, 345789}
94:14	$0, 0, 0, 0, 0, \frac{21}{145}\sqrt{2}e^{12}, \frac{21}{145}\sqrt{2}e^{13}, \frac{7}{145}\sqrt{71}e^{24},$ $\frac{14}{145}\sqrt{6}e^{15} + \frac{7}{145}\sqrt{59}e^{34}$	$(-\frac{14}{145}, \frac{39}{145}, \frac{39}{145}, -\frac{49}{145}, \frac{4}{145}, \frac{5}{29}, \frac{5}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{21}{145}\sqrt{15}e^2 \otimes e_9 - \frac{7}{145}\sqrt{123}e^3 \otimes e_8$	{12345, 12578, 1369, 146789, 23467, 268, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{21}{145}\sqrt{2}e^{12}, \frac{21}{145}\sqrt{2}e^{13}, \frac{7}{145}\sqrt{71}e^{24},$ $\frac{14}{145}\sqrt{6}e^{15} + \frac{7}{145}\sqrt{59}e^{34}$	$(-\frac{14}{145}, \frac{39}{145}, \frac{39}{145}, -\frac{49}{145}, \frac{4}{145}, \frac{5}{29}, \frac{5}{29}, -\frac{2}{29}, -\frac{2}{29})$ $+\frac{21}{145}\sqrt{15}e^2 \otimes e_9 + \frac{7}{145}\sqrt{123}e^3 \otimes e_8$	{12345, 12578, 1369, 146789, 23467, 268, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{2}{35}\sqrt{14}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 - \frac{1}{5}\sqrt{2}e^3 \otimes e_8 - \frac{2}{35}\sqrt{35}e^5 \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{2}e^{12}, \frac{1}{35}\sqrt{42}e^{13}, \frac{2}{35}\sqrt{14}e^{24},$ $\frac{2}{35}\sqrt{21}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^3 \otimes e_8 - \frac{2}{35}\sqrt{35}e^5 \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{5}{497}\sqrt{170}e^{12}, \frac{5}{497}\sqrt{1070}e^{13}, \frac{25}{497}\sqrt{46}e^{24},$ $\frac{20}{497}\sqrt{5}e^{15} + \frac{42}{71}\sqrt{10}e^{34}$	$(-\frac{55}{497}, -\frac{55}{497}, \frac{85}{497}, \frac{15}{497}, \frac{155}{497}, -\frac{110}{497}, \frac{30}{497}, -\frac{40}{497}, \frac{100}{497})$ $+\frac{100}{497}\sqrt{3}e^5 \otimes e_7 + \frac{20}{497}\sqrt{85}e^4 \otimes e_6 + \frac{30}{497}\sqrt{55}e^3 \otimes e_8$	{14789, 2347}
94:14	$0, 0, 0, 0, 0, \frac{42}{305}e^{12}, \frac{6}{305}\sqrt{413}e^{13}, \frac{3}{305}\sqrt{1554}e^{24},$ $\frac{21}{305}\sqrt{6}e^{15} + \frac{42}{305}e^{34}$	$(-\frac{56}{305}, \frac{69}{305}, \frac{62}{305}, -\frac{14}{61}, \frac{48}{305}, \frac{13}{305}, \frac{6}{305}, -\frac{1}{305}, -\frac{8}{305})$ $+\frac{3}{305}\sqrt{1946}e^2 \otimes e_7 + \frac{3}{305}\sqrt{1946}e^3 \otimes e_8$	{1234569, 1478, 289, 3567}
94:14	$0, 0, 0, 0, 0, \frac{1}{635}\sqrt{62886}e^{12}, \frac{7}{635}\sqrt{1338}e^{13}, \frac{1}{635}\sqrt{25422}e^{24},$ $\frac{4}{635}\sqrt{223}e^{15} + \frac{3}{635}\sqrt{2230}e^{34}$	$(\frac{61}{635}, -\frac{129}{635}, \frac{31}{127}, -\frac{33}{635}, \frac{61}{635}, -\frac{68}{635}, \frac{216}{635}, -\frac{162}{635}, \frac{122}{635})$ $+\frac{24}{635}\sqrt{223}e^1 \otimes e_8 + \frac{2}{635}\sqrt{30997}e^3 \otimes e_6$	{12345, 1567, 268, 3478}
94:14	$0, 0, 0, 0, 0, \frac{1}{899}\sqrt{21594}e^{12}, \frac{3}{899}\sqrt{4602}e^{13}, \frac{1}{899}\sqrt{38822}e^{24},$ $\frac{2}{899}\sqrt{1947}e^{15} + \frac{1}{899}\sqrt{11210}e^{34}$	$(-\frac{37}{899}, -\frac{81}{899}, \frac{36}{899}, \frac{2}{31}, \frac{131}{899}, -\frac{118}{899}, -\frac{1}{899}, -\frac{23}{899}, \frac{94}{899})$ $+\frac{1}{899}\sqrt{49206}e^3 \otimes e_8 + \frac{1}{899}\sqrt{49206}e^4 \otimes e_7$	{12346, 12678, 3679, 4689}
94:14	$0, 0, 0, 0, 0, \frac{1}{65}\sqrt{714}e^{12}, \frac{2}{65}\sqrt{273}e^{13}, \frac{2}{65}\sqrt{210}e^{24},$ $\frac{1}{65}\sqrt{462}e^{15} + \frac{7}{65}\sqrt{6}e^{34}$	$(-\frac{14}{65}, \frac{3}{65}, \frac{17}{65}, -\frac{7}{65}, \frac{24}{65}, -\frac{11}{65}, \frac{3}{65}, -\frac{4}{65}, \frac{13}{65})$ $+\frac{1}{65}\sqrt{1218}e^5 \otimes e_7 + \frac{6}{65}\sqrt{35}e^3 \otimes e_8$	{126789, 135, 2589, 367}
94:14	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{21}e^{12}, \frac{1}{119}\sqrt{246}e^{13}, \frac{6}{119}\sqrt{7}e^{24},$ $\frac{2}{119}\sqrt{42}e^{15} + \frac{4}{119}\sqrt{21}e^{34}$	$(-\frac{13}{119}, \frac{8}{119}, \frac{1}{119}, \frac{1}{119}, \frac{15}{119}, -\frac{5}{119}, -\frac{12}{119}, \frac{9}{119}, \frac{2}{119})$ $+\frac{1}{119}\sqrt{246}e^5 \otimes e_8 + \frac{1}{119}\sqrt{498}e^4 \otimes e_6 + \frac{1}{119}\sqrt{582}e^2 \otimes e_9$	{123457, 2678}
94:14	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1463}e^{12}, \frac{1}{215}\sqrt{8778}e^{13}, \frac{7}{215}\sqrt{209}e^{24},$ $\frac{1}{215}\sqrt{4389}e^{15} + \frac{1}{215}\sqrt{4389}e^{34}$	$(-\frac{28}{215}, -\frac{17}{215}, \frac{88}{215}, -\frac{28}{215}, \frac{88}{215}, -\frac{9}{43}, \frac{12}{43}, -\frac{9}{43}, \frac{12}{43})$ $+\frac{1}{215}\sqrt{20615}e^5 \otimes e_6 + \frac{1}{215}\sqrt{29393}e^3 \otimes e_8$	{12345, 12578, 1369, 146789, 23467, 268, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{15}{401}\sqrt{130}e^{12}, \frac{5}{401}\sqrt{310}e^{13}, \frac{25}{401}\sqrt{30}e^{24},$ $\frac{20}{401}\sqrt{35}e^{15} + \frac{5}{401}\sqrt{590}e^{34}$	$(-\frac{53}{401}, \frac{21}{401}, -\frac{51}{401}, \frac{93}{401}, \frac{95}{401}, -\frac{32}{401}, -\frac{104}{401}, \frac{114}{401}, \frac{42}{401})$ $+\frac{10}{401}\sqrt{435}e^2 \otimes e_7 + \frac{10}{401}\sqrt{470}e^4 \otimes e_6$	{1234, 167, 2568, 34578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:14	$0, 0, 0, 0, 0, \frac{1}{889}\sqrt{730e^{12}}, \frac{1}{889}\sqrt{2270e^{13}}, \frac{3}{889}\sqrt{330e^{24}},$ $\frac{4}{889}\sqrt{195e^{15}} + \frac{1}{889}\sqrt{2010e^{34}}$	$(-\frac{19}{889}, \frac{9}{889}, \frac{37}{889}, -\frac{33}{889}, \frac{23}{889}, -\frac{10}{889}, \frac{18}{889}, -\frac{24}{889}, \frac{4}{889})$ $+\frac{10}{889}\sqrt{17e^2} \otimes e_9 + \frac{16}{889}\sqrt{15e^1} \otimes e_8 + \frac{4}{889}\sqrt{170e^5} \otimes e_7$	{179, 2378}
94:14	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{119e^{12}}, \frac{21}{139}\sqrt{5e^{13}}, \frac{1}{139}\sqrt{4795e^{24}},$ $\frac{1}{139}\sqrt{2765e^{15}} + \frac{4}{139}\sqrt{105e^{34}}$	$(-\frac{33}{278}, -\frac{14}{139}, \frac{9}{278}, \frac{23}{139}, \frac{44}{139}, -\frac{61}{278}, -\frac{12}{139}, \frac{9}{139}, \frac{55}{278})$ $+\frac{1}{139}\sqrt{3885e^4} \otimes e_7 + \frac{1}{139}\sqrt{5005e^5} \otimes e_8$	{126789, 13489, 2378, 468}
94:14	$0, 0, 0, 0, 0, \frac{3}{10}\sqrt{6e^{12}}, \frac{3}{5}\sqrt{2e^{13}}, \frac{3}{10}\sqrt{5e^{24}},$ $\frac{3}{5}\sqrt{2e^{15}} + \frac{3}{10}\sqrt{6e^{34}}$	$(-\frac{7}{20}, \frac{1}{5}, \frac{1}{20}, \frac{1}{5}, \frac{3}{5}, -\frac{3}{20}, -\frac{3}{10}, \frac{2}{5}, \frac{1}{4})$ $+\frac{3}{10}\sqrt{17e^5} \otimes e_7$	{123568, 126789, 135, 179, 2378, 2589, 367, 569}
94:14	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{133e^{12}}, \frac{21}{139}\sqrt{5e^{13}}, \frac{1}{139}\sqrt{210e^{24}},$ $\frac{8}{139}\sqrt{35e^{15}} + \frac{1}{139}\sqrt{2030e^{34}}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, -\frac{14}{139}, \frac{44}{139}, -\frac{12}{139}, -\frac{12}{139}, \frac{9}{139}, \frac{9}{139})$ $+\frac{1}{139}\sqrt{3885e^2} \otimes e_7 - \frac{1}{139}\sqrt{5005e^3} \otimes e_6$	{12348, 12359, 145679, 1678, 24689, 256, 3457, 3789}
94:14	$0, 0, 0, 0, 0, \frac{12}{2591}\sqrt{1610e^{12}}, \frac{4}{2591}\sqrt{119370e^{13}}, \frac{24}{2591}\sqrt{1610e^{24}},$ $\frac{8}{2591}\sqrt{10281e^{15}} + \frac{36}{2591}\sqrt{322e^{34}}$	$(\frac{630}{2591}, -\frac{260}{2591}, -\frac{789}{2591}, \frac{945}{2591}, -\frac{474}{2591}, \frac{370}{2591}, -\frac{159}{2591}, \frac{685}{2591}, \frac{156}{2591})$ $+\frac{4}{2591}\sqrt{143106e^1} \otimes e_5 + \frac{4}{2591}\sqrt{177882e^4} \otimes e_7$	{1234, 1278, 13468, 167}
94:14	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2e^{12}}, \frac{1}{35}\sqrt{42e^{13}}, \frac{2}{35}\sqrt{14e^{24}},$ $\frac{2}{35}\sqrt{21e^{15}} + \frac{2}{35}\sqrt{21e^{34}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{210e^2} \otimes e_9 - \frac{1}{5}\sqrt{2e^3} \otimes e_8 + \frac{2}{35}\sqrt{35e^5} \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2e^{12}}, \frac{1}{35}\sqrt{42e^{13}}, \frac{2}{35}\sqrt{14e^{24}},$ $\frac{2}{35}\sqrt{21e^{15}} + \frac{2}{35}\sqrt{21e^{34}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{210e^2} \otimes e_9 + \frac{1}{5}\sqrt{2e^3} \otimes e_8 + \frac{2}{35}\sqrt{35e^5} \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{5}{203}\sqrt{42e^{12}}, \frac{1}{203}\sqrt{1302e^{13}}, \frac{1}{203}\sqrt{1554e^{24}},$ $\frac{3}{203}\sqrt{406e^{15}} + \frac{3}{203}\sqrt{182e^{34}}$	$(\frac{1}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{2}{29}, 0, 0, \frac{2}{29})$ $+\frac{2}{203}\sqrt{161e^3} \otimes e_6 + \frac{6}{203}\sqrt{42e^5} \otimes e_7 + \frac{6}{29}e^1 \otimes e_8$	{179, 2589}
94:14	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{19e^{12}}, \frac{1}{28}\sqrt{29e^{13}}, \frac{5}{28}e^{24},$ $\frac{1}{28}\sqrt{29e^{15}} + \frac{1}{28}\sqrt{30e^{34}}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56})$ $+\frac{1}{28}\sqrt{11e^4} \otimes e_6 + \frac{1}{28}\sqrt{30e^5} \otimes e_7 + \frac{1}{28}\sqrt{33e^1} \otimes e_8$	{135, 179, 2378, 2589}
94:14	$0, 0, 0, 0, 0, \frac{9}{679}\sqrt{262e^{12}}, \frac{3}{679}\sqrt{1626e^{13}}, \frac{3}{679}\sqrt{114e^{24}},$ $\frac{18}{679}\sqrt{14e^{15}} + \frac{9}{679}\sqrt{262e^{34}}$	$(\frac{15}{679}, \frac{15}{679}, -\frac{69}{679}, \frac{57}{679}, -\frac{27}{679}, \frac{30}{679}, -\frac{54}{679}, \frac{72}{679}, -\frac{12}{679})$ $+\frac{24}{679}\sqrt{39e^4} \otimes e_6 + \frac{6}{679}\sqrt{246e^5} \otimes e_7 + \frac{6}{679}\sqrt{561e^2} \otimes e_9$	{135679, 25678}
94:14	$0, 0, 0, 0, 0, \frac{23}{3941}\sqrt{382e^{12}}, \frac{23}{3941}\sqrt{2238e^{13}}, \frac{23}{3941}\sqrt{2762e^{24}},$ $\frac{46}{3941}\sqrt{393e^{15}} + \frac{23}{3941}\sqrt{1146e^{34}}$	$(\frac{437}{3941}, -\frac{851}{3941}, -\frac{207}{3941}, \frac{759}{3941}, \frac{115}{3941}, -\frac{414}{3941}, \frac{230}{3941}, -\frac{92}{3941}, \frac{552}{3941})$ $+\frac{46}{3941}\sqrt{281e^5} \otimes e_6 + \frac{46}{3941}\sqrt{614e^4} \otimes e_7 + \frac{46}{3941}\sqrt{906e^1} \otimes e_8$	{123469, 468}
94:14	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{70e^{12}}, \frac{5}{79}\sqrt{14e^{13}}, \frac{5}{79}\sqrt{42e^{24}},$ $\frac{4}{79}\sqrt{105e^{15}} + \frac{1}{79}\sqrt{70e^{34}}$	$(-\frac{21}{79}, \frac{31}{79}, \frac{3}{79}, -\frac{7}{79}, \frac{17}{79}, \frac{10}{79}, -\frac{18}{79}, \frac{24}{79}, -\frac{4}{79})$ $+\frac{2}{79}\sqrt{665e^2} \otimes e_9 + \frac{8}{79}\sqrt{35e^5} \otimes e_7$	{12345, 146789, 23467, 4589}
94:14	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{2030e^{12}}, \frac{21}{139}\sqrt{5e^{13}}, \frac{1}{139}\sqrt{210e^{24}},$ $\frac{8}{139}\sqrt{35e^{15}} + \frac{1}{139}\sqrt{133e^{34}}$	$(-\frac{33}{278}, -\frac{14}{139}, \frac{9}{278}, \frac{23}{139}, \frac{44}{139}, -\frac{61}{278}, -\frac{12}{139}, \frac{9}{139}, \frac{55}{278})$ $+\frac{1}{139}\sqrt{3885e^4} \otimes e_7 + \frac{1}{139}\sqrt{5005e^3} \otimes e_6$	{12348, 1678, 24689, 3789}
94:14	$0, 0, 0, 0, 0, \frac{14}{379}\sqrt{22e^{12}}, \frac{7}{379}\sqrt{66e^{13}}, \frac{1}{379}\sqrt{22330e^{24}},$ $\frac{4}{379}\sqrt{1463e^{15}} + \frac{14}{379}\sqrt{22e^{34}}$	$(-\frac{70}{379}, \frac{75}{379}, \frac{82}{379}, -\frac{84}{379}, \frac{68}{379}, \frac{5}{379}, \frac{12}{379}, -\frac{9}{379}, -\frac{2}{379})$ $+\frac{11}{379}\sqrt{238e^5} \otimes e_8 + \frac{1}{379}\sqrt{24486e^2} \otimes e_9$	{12456, 134789, 238, 5679}
94:14	$0, 0, 0, 0, 0, \frac{21}{145}\sqrt{2e^{12}}, \frac{21}{145}\sqrt{2e^{13}}, \frac{7}{145}\sqrt{71e^{24}},$ $\frac{14}{145}\sqrt{6e^{15}} + \frac{14}{145}\sqrt{59e^{34}}$	$(-\frac{14}{145}, \frac{39}{145}, -\frac{9}{58}, \frac{5}{58}, \frac{4}{145}, \frac{5}{145}, -\frac{73}{290}, \frac{103}{290}, -\frac{2}{29})$ $+\frac{21}{145}\sqrt{15e^2} \otimes e_9 + \frac{7}{145}\sqrt{123e^4} \otimes e_7$	{12345, 12578, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{74}{3013}\sqrt{223e^{12}}, \frac{2}{3013}\sqrt{115737e^{13}}, \frac{24}{3013}\sqrt{1115e^{24}},$ $\frac{2}{3013}\sqrt{199139e^{15}} + \frac{28}{3013}\sqrt{1115e^{34}}$	$(\frac{361}{3013}, -\frac{20}{131}, \frac{347}{3013}, -\frac{71}{3013}, -\frac{85}{3013}, -\frac{99}{3013}, \frac{708}{3013}, -\frac{531}{3013}, \frac{12}{131})$ $+\frac{2}{3013}\sqrt{260241e^1} \otimes e_5 + \frac{2}{3013}\sqrt{369511e^3} \otimes e_6$	{12348, 1678, 256, 3457}
94:14	$0, 0, 0, 0, 0, \frac{1}{337}\sqrt{48070e^{12}}, \frac{23}{337}\sqrt{66e^{13}}, \frac{7}{337}\sqrt{506e^{24}},$ $\frac{12}{337}\sqrt{253e^{15}} + \frac{1}{337}\sqrt{48070e^{34}}$	$(-\frac{43}{337}, \frac{193}{337}, \frac{29}{337}, -\frac{89}{337}, -\frac{17}{337}, \frac{150}{337}, -\frac{14}{337}, \frac{104}{337}, -\frac{60}{337})$ $+\frac{1}{337}\sqrt{35673e^2} \otimes e_9$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:14	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{31882e^{12}}, \frac{3}{995}\sqrt{68798e^{13}}, \frac{1}{995}\sqrt{592334e^{24}},$ $\frac{4}{995}\sqrt{5034e^{15}} + \frac{1}{995}\sqrt{179546e^{34}}$	$(\frac{11}{995}, -\frac{21}{995}, \frac{519}{995}, -\frac{299}{995}, \frac{209}{995}, -\frac{2}{199}, \frac{106}{199}, -\frac{64}{199}, \frac{44}{199})$ $+\frac{2}{995}\sqrt{349863e^3} \otimes e_8$	{12346, 12678, 1359, 145789, 23457, 258, 3679, 4689}
94:14	$0, 0, 0, 0, 0, \frac{9}{1153}\sqrt{3290e^{12}}, \frac{72}{1153}\sqrt{35e^{13}}, \frac{72}{1153}\sqrt{42e^{24}},$ $\frac{72}{1153}\sqrt{21e^{15}} + \frac{1}{1153}\sqrt{1498e^{34}}$	$(-\frac{364}{1153}, \frac{277}{1153}, \frac{74}{1153}, \frac{42}{1153}, \frac{480}{1153}, -\frac{87}{1153}, -\frac{290}{1153}, \frac{319}{1153}, \frac{116}{1153})$ $+\frac{9}{1153}\sqrt{6286e^5} \otimes e_6 + \frac{9}{1153}\sqrt{8078e^2} \otimes e_7$	{12358, 1679, 246, 345789}
94:14	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{62646e^{12}}, \frac{1}{313}\sqrt{13002e^{13}}, \frac{1}{313}\sqrt{36642e^{24}},$ $\frac{4}{313}\sqrt{2561e^{15}} + \frac{1}{313}\sqrt{62646e^{34}}$	$(-\frac{49}{313}, -\frac{27}{313}, \frac{121}{313}, -\frac{27}{313}, \frac{143}{313}, -\frac{76}{313}, \frac{72}{313}, -\frac{54}{313}, \frac{94}{313})$ $+\frac{2}{313}\sqrt{26989e^3} \otimes e_6$	{12348, 12359, 145679, 1678, 24689, 256, 3457, 3789}
94:14	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{19e^{12}}, \frac{1}{28}\sqrt{29e^{13}}, \frac{5}{28}e^{24},$ $\frac{1}{28}\sqrt{29e^{15}} + \frac{1}{28}\sqrt{30e^{34}}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{28}, \frac{5}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56})$ $-\frac{1}{28}\sqrt{11e^4} \otimes e_6 + \frac{1}{28}\sqrt{30e^5} \otimes e_7 + \frac{1}{28}\sqrt{33e^1} \otimes e_8$	{135, 179, 2378, 2589}
94:14	$0, 0, 0, 0, 0, \frac{5}{247}\sqrt{86e^{12}}, \frac{1}{247}\sqrt{1806e^{13}}, \frac{1}{247}\sqrt{6794e^{24}},$ $\frac{12}{247}\sqrt{43e^{15}} + \frac{1}{247}\sqrt{1290e^{34}}$	$(\frac{27}{247}, \frac{23}{247}, \frac{1}{13}, -\frac{3}{19}, -\frac{47}{247}, \frac{50}{247}, \frac{46}{247}, -\frac{16}{247}, -\frac{20}{247})$ $+\frac{2}{247}\sqrt{2193e^2} \otimes e_9 + \frac{4}{247}\sqrt{645e^1} \otimes e_8$	{12457, 1679, 23678, 345789}
94:14	$0, 0, 0, 0, 0, \frac{12}{2591}\sqrt{1610e^{12}}, \frac{4}{2591}\sqrt{119370e^{13}}, \frac{24}{2591}\sqrt{1610e^{24}},$ $\frac{8}{2591}\sqrt{10281e^{15}} + \frac{36}{2591}\sqrt{322e^{34}}$	$(\frac{630}{2591}, -\frac{260}{2591}, \frac{500}{2591}, -\frac{344}{2591}, \frac{474}{2591}, \frac{370}{2591}, \frac{1130}{2591}, -\frac{604}{2591}, \frac{156}{2591})$ $+\frac{4}{2591}\sqrt{143106e^4} \otimes e_5 + \frac{4}{2591}\sqrt{177882e^3} \otimes e_8$	{1234, 1278, 234567, 2568}
94:14	$0, 0, 0, 0, 0, \frac{4}{431}\sqrt{3542e^{12}}, \frac{1}{431}\sqrt{322e^{13}}, \frac{1}{431}\sqrt{3542e^{24}},$ $\frac{1}{431}\sqrt{27370e^{15}} + \frac{4}{431}\sqrt{2415e^{34}}$	$(\frac{118}{431}, -\frac{125}{431}, -\frac{79}{431}, \frac{154}{431}, -\frac{43}{431}, -\frac{7}{431}, \frac{39}{431}, \frac{29}{431}, \frac{75}{431})$ $+\frac{1}{431}\sqrt{71806e^4} \otimes e_6 + \frac{28}{431}\sqrt{69e^1} \otimes e_5$	{123478, 168, 2567, 345}
94:14	$0, 0, 0, 0, 0, \frac{1}{313}\sqrt{45310e^{12}}, \frac{1}{313}\sqrt{13002e^{13}}, \frac{1}{313}\sqrt{71314e^{24}},$ $\frac{2}{313}\sqrt{16745e^{15}} + \frac{1}{313}\sqrt{45310e^{34}}$	$(-\frac{49}{313}, -\frac{27}{313}, \frac{121}{313}, -\frac{27}{313}, \frac{143}{313}, -\frac{76}{313}, \frac{72}{313}, -\frac{54}{313}, \frac{94}{313})$ $+\frac{2}{313}\sqrt{26989e^5} \otimes e_8$	{124567, 126789, 13489, 135, 234579, 2378, 468, 569}
94:14	$0, 0, 0, 0, 0, \frac{3}{995}\sqrt{31882e^{12}}, \frac{3}{995}\sqrt{68798e^{13}}, \frac{1}{995}\sqrt{592334e^{24}},$ $\frac{4}{995}\sqrt{5034e^{15}} + \frac{1}{995}\sqrt{179546e^{34}}$	$(\frac{11}{995}, -\frac{21}{995}, -\frac{63}{199}, \frac{107}{199}, \frac{209}{995}, -\frac{2}{199}, -\frac{304}{995}, \frac{514}{995}, \frac{44}{199})$ $+\frac{2}{995}\sqrt{349863e^4} \otimes e_7$	{12346, 12678, 1348, 17, 23789, 249, 3679, 4689}
94:14	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{42e^{12}}, \frac{1}{14}\sqrt{42e^{13}}, \frac{1}{14}\sqrt{21e^{24}},$ $\frac{1}{14}\sqrt{14e^{15}} + \frac{1}{14}\sqrt{42e^{34}}$	$(-\frac{1}{4}, 0, \frac{1}{4}, 0, \frac{1}{2}, -\frac{1}{4}, 0, 0, \frac{1}{4})$ $+\frac{2}{7}\sqrt{7e^3} \otimes e_6 + \frac{3}{14}\sqrt{7e^5} \otimes e_7$	{12359, 1678, 256, 3789}
94:14	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{10e^{12}}, \frac{1}{14}\sqrt{21e^{13}}, \frac{1}{28}\sqrt{14e^{24}},$ $\frac{3}{56}\sqrt{42e^{15}} + \frac{1}{28}\sqrt{70e^{34}}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, \frac{1}{8}, 0)$ $+\frac{1}{56}\sqrt{798e^2} \otimes e_9 + \frac{3}{56}\sqrt{70e^5} \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{1}{971}\sqrt{647770e^{12}}, \frac{2}{971}\sqrt{136095e^{13}}, \frac{1}{971}\sqrt{128710e^{24}},$ $\frac{7}{971}\sqrt{6330e^{15}} + \frac{1}{971}\sqrt{78070e^{34}}$	$(\frac{553}{971}, -\frac{85}{971}, -\frac{134}{971}, \frac{185}{971}, -\frac{502}{971}, \frac{468}{971}, \frac{419}{971}, \frac{100}{971}, \frac{51}{971})$ $+\frac{90}{971}\sqrt{211e^1} \otimes e_5$	{12348, 127, 1346, 1678, 2345678, 256, 3457, 58}
94:14	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{1463e^{12}}, \frac{1}{215}\sqrt{8778e^{13}}, \frac{7}{215}\sqrt{209e^{24}},$ $\frac{1}{215}\sqrt{4389e^{15}} + \frac{1}{215}\sqrt{4389e^{34}}$	$(-\frac{28}{215}, -\frac{17}{215}, -\frac{9}{86}, \frac{33}{86}, \frac{88}{215}, -\frac{9}{43}, -\frac{101}{430}, \frac{131}{430}, \frac{12}{43})$ $+\frac{1}{215}\sqrt{20615e^5} \otimes e_6 + \frac{1}{215}\sqrt{29393e^4} \otimes e_7$	{12345, 12578, 3579, 4589}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42e^{12}}, \frac{1}{5}\sqrt{2e^{13}}, \frac{3}{35}\sqrt{14e^{24}},$ $\frac{2}{35}\sqrt{21e^{15}} + \frac{1}{35}\sqrt{14e^{34}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{2}{35}\sqrt{35e^2} \otimes e_9 + \frac{2}{35}\sqrt{35e^5} \otimes e_7 + \frac{2}{35}\sqrt{42e^3} \otimes e_8$	{123456, 14789, 2347, 45689}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42e^{12}}, \frac{1}{5}\sqrt{2e^{13}}, \frac{3}{35}\sqrt{14e^{24}},$ $\frac{2}{35}\sqrt{21e^{15}} + \frac{1}{35}\sqrt{14e^{34}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{2}{35}\sqrt{35e^2} \otimes e_9 + \frac{2}{35}\sqrt{35e^5} \otimes e_7 - \frac{2}{35}\sqrt{42e^3} \otimes e_8$	{123456, 14789, 2347, 45689}
94:14	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{14e^{12}}, \frac{1}{27}\sqrt{210e^{13}}, \frac{1}{27}\sqrt{42e^{24}},$ $\frac{1}{27}\sqrt{210e^{15}} + \frac{2}{9}\sqrt{14e^{34}}$	$(\frac{2}{27}, -\frac{1}{3}, -\frac{1}{9}, \frac{14}{27}, \frac{1}{3}, -\frac{7}{27}, -\frac{1}{27}, \frac{5}{27}, \frac{11}{27})$ $+\frac{1}{27}\sqrt{966e^4} \otimes e_6$	{12347, 12459, 135679, 16, 23689, 25678, 3458, 4789}
94:14	$0, 0, 0, 0, 0, \frac{1}{379}\sqrt{24486e^{12}}, \frac{7}{379}\sqrt{66e^{13}}, \frac{14}{379}\sqrt{33e^{24}},$ $\frac{1}{379}\sqrt{110e^{15}} + \frac{1}{379}\sqrt{24486e^{34}}$	$(-\frac{70}{379}, \frac{75}{379}, \frac{82}{379}, -\frac{84}{379}, \frac{68}{379}, \frac{5}{379}, \frac{12}{379}, -\frac{9}{379}, -\frac{2}{379})$ $+\frac{11}{379}\sqrt{238e^3} \otimes e_6 + \frac{1}{379}\sqrt{24486e^2} \otimes e_9$	{123478, 14569, 2567, 389}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:14	$0, 0, 0, 0, 0, \frac{5}{139}\sqrt{133}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{210}e^{24},$ $\frac{1}{139}\sqrt{35}e^{15} + \frac{1}{139}\sqrt{2030}e^{34}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, -\frac{14}{139}, \frac{44}{139}, -\frac{12}{139}, -\frac{12}{139}, \frac{9}{139}, \frac{9}{139})$ $+\frac{1}{139}\sqrt{3885}e^2 \otimes e_7 + \frac{1}{139}\sqrt{5005}e^3 \otimes e_6$	{12348, 12359, 145679, 1678, 24689, 256, 3457, 3789}
94:14	$0, 0, 0, 0, 0, \frac{1}{197}\sqrt{890}e^{12}, \frac{1}{197}\sqrt{890}e^{13}, \frac{1}{197}\sqrt{12282}e^{24},$ $\frac{1}{197}\sqrt{2047}e^{15} + \frac{1}{197}\sqrt{890}e^{34}$	$(-\frac{15}{197}, -\frac{43}{197}, \frac{31}{197}, \frac{31}{197}, \frac{77}{197}, -\frac{58}{197}, \frac{16}{197}, -\frac{12}{197}, \frac{62}{197})$ $+\frac{2}{197}\sqrt{3293}e^4 \otimes e_6 + \frac{2}{197}\sqrt{4539}e^5 \otimes e_8$	{12689, 134789, 23459, 5679}
94:14	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{10}e^{12}, \frac{1}{14}\sqrt{21}e^{13}, \frac{1}{28}\sqrt{14}e^{24},$ $\frac{3}{56}\sqrt{42}e^{15} + \frac{1}{28}\sqrt{70}e^{34}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, \frac{1}{8}, 0)$ $+\frac{1}{56}\sqrt{798}e^2 \otimes e_9 - \frac{3}{56}\sqrt{70}e^5 \otimes e_6$	{123457, 1258, 13679, 14689, 2346, 2678, 359, 45789}
94:14	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{12}, \frac{1}{35}\sqrt{14}e^{13}, \frac{1}{35}\sqrt{42}e^{24},$ $\frac{2}{35}\sqrt{7}e^{15} + \frac{1}{35}\sqrt{182}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{2}{35}\sqrt{7}e^5 \otimes e_7 + \frac{2}{5}e^2 \otimes e_9 + \frac{4}{35}\sqrt{14}e^3 \otimes e_6$	{123478, 14569}
94:14	$0, 0, 0, 0, 0, \frac{1}{251}\sqrt{3874}e^{12}, \frac{1}{251}\sqrt{25926}e^{13}, \frac{2}{251}\sqrt{8642}e^{24},$ $\frac{1}{251}\sqrt{25926}e^{15} + \frac{2}{251}\sqrt{6258}e^{34}$	$(\frac{90}{251}, -\frac{65}{251}, \frac{35}{251}, \frac{6}{251}, -\frac{49}{251}, \frac{25}{251}, \frac{125}{251}, -\frac{59}{251}, \frac{41}{251})$ $+\frac{1}{251}\sqrt{63474}e^1 \otimes e_8$	{123469, 124567, 135, 179, 2378, 2589, 3456789, 468}
94:15	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1702}e^{12}, \frac{2}{293}\sqrt{1702}e^{13}, \frac{2}{293}\sqrt{1771}e^{14} + \frac{2}{293}\sqrt{1702}e^{23},$ $\frac{2}{293}\sqrt{782}e^{45}$	$(-\frac{46}{293}, \frac{11}{293}, \frac{11}{293}, \frac{68}{293}, -\frac{9}{293}, -\frac{35}{293}, \frac{35}{293}, \frac{22}{293}, \frac{59}{293})$ $+\frac{2}{293}\sqrt{3082}e^2 \otimes e_7 + \frac{2}{293}\sqrt{3082}e^3 \otimes e_6$	{123, 12359, 15679, 167, 25689, 268}
94:15	$0, 0, 0, 0, 0, \frac{2}{317}\sqrt{17810}e^{12}, \frac{2}{317}\sqrt{411}e^{13}, \frac{2}{317}\sqrt{9179}e^{14} + \frac{2}{317}\sqrt{411}e^{23},$ $\frac{16}{317}\sqrt{274}e^{45}$	$(-\frac{9}{317}, -\frac{76}{317}, \frac{57}{317}, -\frac{10}{317}, \frac{189}{317}, -\frac{85}{317}, \frac{48}{317}, -\frac{19}{317}, \frac{179}{317})$ $+\frac{2}{317}\sqrt{36442}e^5 \otimes e_6$	{1234578, 1259, 1367, 14689, 2368, 24679, 345, 5789}
94:15	$0, 0, 0, 0, 0, \frac{9}{2065}\sqrt{1327}e^{12}, \frac{18}{2065}\sqrt{165}e^{13},$ $\frac{18}{2065}\sqrt{113}e^{14} + \frac{9}{2065}\sqrt{59}e^{23}, \frac{27}{2065}\sqrt{131}e^{45}$	$(\frac{108}{2065}, \frac{9}{413}, -\frac{144}{2065}, -\frac{207}{2065}, \frac{234}{2065}, \frac{153}{2065}, -\frac{36}{2065}, -\frac{99}{2065}, \frac{27}{2065})$ $+\frac{9}{2065}\sqrt{1045}e^2 \otimes e_7 + \frac{9}{2065}\sqrt{1334}e^5 \otimes e_6 + \frac{9}{2065}\sqrt{1438}e^1 \otimes e_9$	{123458, 2469}
94:15	$0, 0, 0, 0, 0, \frac{4}{761}\sqrt{2145}e^{12}, \frac{4}{761}\sqrt{2145}e^{13}, \frac{30}{761}\sqrt{11}e^{14} + \frac{8}{761}\sqrt{2310}e^{23},$ $\frac{1}{761}\sqrt{24585}e^{45}$	$(-\frac{1}{761}, \frac{141}{761}, -\frac{188}{761}, -\frac{46}{761}, \frac{283}{761}, \frac{140}{761}, -\frac{189}{761}, -\frac{47}{761}, \frac{237}{761})$ $+\frac{2}{761}\sqrt{54285}e^2 \otimes e_7 + \frac{4}{761}\sqrt{14190}e^5 \otimes e_8$	{12359, 15679, 268, 378}
94:15	$0, 0, 0, 0, 0, \frac{2}{3449}\sqrt{342285}e^{12}, \frac{4}{3449}\sqrt{25935}e^{13},$ $\frac{2}{3449}\sqrt{89205}e^{14} + \frac{2}{3449}\sqrt{149055}e^{23}, \frac{114}{3449}\sqrt{110}e^{45}$	$(-\frac{205}{3449}, \frac{369}{3449}, \frac{160}{3449}, \frac{734}{3449}, -\frac{935}{3449}, \frac{164}{3449}, -\frac{45}{3449}, \frac{529}{3449}, -\frac{201}{3449})$ $+\frac{12}{3449}\sqrt{10735}e^4 \otimes e_6 + \frac{2}{3449}\sqrt{505590}e^2 \otimes e_9$	{12458, 1569, 2678, 479}
94:15	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{161}e^{12}, \frac{1}{63}\sqrt{161}e^{13}, \frac{1}{63}\sqrt{154}e^{14} + \frac{1}{63}\sqrt{238}e^{23},$ $\frac{1}{21}\sqrt{14}e^{45}$	$(-\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{2}{9})$ $+\frac{1}{63}\sqrt{154}e^5 \otimes e_8 + \frac{1}{63}\sqrt{329}e^2 \otimes e_7 - \frac{1}{63}\sqrt{329}e^3 \otimes e_6$	{12359, 15679, 268}
94:15	$0, 0, 0, 0, 0, \frac{4}{81}\sqrt{185}e^{12}, \frac{4}{81}\sqrt{185}e^{13}, \frac{2}{81}\sqrt{703}e^{14} + \frac{4}{81}\sqrt{185}e^{23},$ $\frac{2}{81}\sqrt{407}e^{45}$	$(-\frac{7}{81}, \frac{41}{81}, -\frac{26}{81}, \frac{22}{81}, \frac{1}{81}, \frac{34}{81}, -\frac{27}{81}, \frac{5}{27}, \frac{25}{81})$ $+\frac{2}{81}\sqrt{2479}e^2 \otimes e_7$	{123, 12359, 15679, 167, 25689, 268, 35789, 378}
94:15	$0, 0, 0, 0, 0, \frac{20}{881}\sqrt{285}e^{12}, \frac{20}{881}\sqrt{285}e^{13}, \frac{10}{881}\sqrt{235}e^{14} + \frac{40}{881}\sqrt{5}e^{23},$ $\frac{30}{881}\sqrt{105}e^{45}$	$(\frac{111}{881}, \frac{213}{881}, -\frac{148}{881}, -\frac{46}{881}, -\frac{93}{881}, \frac{324}{881}, -\frac{37}{881}, \frac{65}{881}, -\frac{139}{881})$ $+\frac{190}{881}\sqrt{5}e^2 \otimes e_7 + \frac{20}{881}\sqrt{530}e^1 \otimes e_9$	{123, 167, 25689, 35789}
94:15	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1070}e^{12}, \frac{1}{79}\sqrt{1070}e^{13}, \frac{1}{158}\sqrt{642}e^{14} + \frac{1}{79}\sqrt{1070}e^{23},$ $\frac{1}{158}\sqrt{1177}e^{45}$	$(-\frac{47}{316}, \frac{63}{158}, -\frac{41}{316}, \frac{33}{79}, -\frac{41}{158}, \frac{1}{4}, -\frac{22}{79}, \frac{85}{316}, \frac{25}{158})$ $+\frac{1}{158}\sqrt{11770}e^4 \otimes e_5 + \frac{1}{158}\sqrt{17869}e^2 \otimes e_7$	{12349, 14679, 24689, 34789}
94:15	$0, 0, 0, 0, 0, \frac{4}{4157}\sqrt{12617}e^{12}, \frac{2}{4157}\sqrt{9238}e^{13},$ $\frac{2}{4157}\sqrt{36859}e^{14} + \frac{4}{4157}\sqrt{5890}e^{23}, \frac{18}{4157}\sqrt{682}e^{45}$	$(\frac{164}{4157}, \frac{33}{4157}, -\frac{157}{4157}, -\frac{288}{4157}, \frac{259}{4157}, \frac{197}{4157}, \frac{7}{4157}, -\frac{124}{4157}, -\frac{29}{4157})$ $+\frac{124}{4157}\sqrt{14}e^5 \otimes e_6 + \frac{92}{4157}\sqrt{31}e^2 \otimes e_9$	{12458, 1346789, 2678, 3589}
94:15	$0, 0, 0, 0, 0, \frac{69}{5509}\sqrt{94}e^{12}, \frac{92}{5509}\sqrt{5}e^{13}, \frac{23}{5509}\sqrt{94}e^{14} + \frac{46}{5509}\sqrt{671}e^{23},$ $\frac{46}{5509}\sqrt{926}e^{45}$	$(\frac{115}{5509}, \frac{759}{5509}, -\frac{851}{5509}, -\frac{207}{5509}, \frac{437}{5509}, \frac{874}{5509}, -\frac{736}{5509}, -\frac{92}{5509}, \frac{230}{5509})$ $+\frac{23}{5509}\sqrt{2294}e^4 \otimes e_7 + \frac{23}{5509}\sqrt{4146}e^2 \otimes e_9 + \frac{46}{5509}\sqrt{919}e^5 \otimes e_8$	{23456, 2678}
94:15	$0, 0, 0, 0, 0, \frac{2}{355}\sqrt{3782}e^{12}, \frac{6}{355}\sqrt{155}e^{13}, \frac{2}{355}\sqrt{527}e^{14} + \frac{2}{355}\sqrt{1209}e^{23},$ $\frac{124}{355}e^{45}$	$(\frac{51}{355}, -\frac{10}{71}, \frac{27}{355}, -\frac{74}{355}, \frac{63}{355}, \frac{1}{355}, \frac{78}{355}, -\frac{23}{355}, -\frac{11}{355})$ $+\frac{2}{355}\sqrt{4774}e^5 \otimes e_6 + \frac{4}{355}\sqrt{1302}e^1 \otimes e_9$	{123458, 136, 2469, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:15	$0, 0, 0, 0, 0, \frac{1}{320}\sqrt{59010}e^{12}, \frac{1}{320}\sqrt{16017}e^{13}, \frac{1}{160}\sqrt{8711}e^{14} + \frac{1}{320}\sqrt{16017}e^{23}, \frac{1}{160}\sqrt{12083}e^{45}$	$(-\frac{171}{640}, -\frac{47}{640}, \frac{11}{32}, \frac{43}{80}, -\frac{33}{320}, -\frac{109}{320}, \frac{49}{640}, \frac{173}{640}, \frac{139}{320}) + \frac{1}{320}\sqrt{150054}e^4 \otimes e_6$	{1245, 1249, 15689, 168, 25679, 267, 4578, 4789}
94:15	$0, 0, 0, 0, 0, \frac{2}{319}\sqrt{10230}e^{12}, \frac{2}{319}\sqrt{2418}e^{13}, \frac{2}{319}\sqrt{8835}e^{14} + \frac{2}{319}\sqrt{10230}e^{23}, \frac{6}{319}\sqrt{1426}e^{45}$	$(\frac{2}{11}, \frac{9}{29}, -\frac{37}{319}, \frac{4}{319}, -\frac{91}{319}, \frac{157}{319}, \frac{21}{319}, \frac{62}{319}, -\frac{3}{11}) + \frac{8}{319}\sqrt{1581}e^2 \otimes e_9$	{1237, 12458, 1346789, 1569, 23456, 2678, 3589, 479}
94:15	$0, 0, 0, 0, 0, \frac{3}{328}\sqrt{4579}e^{12}, \frac{3}{328}\sqrt{4579}e^{13}, \frac{1}{328}\sqrt{17834}e^{14} + \frac{1}{328}\sqrt{24582}e^{23}, \frac{1}{328}\sqrt{46754}e^{45}$	$(\frac{15}{41}, \frac{1}{16}, \frac{1}{16}, -\frac{79}{328}, -\frac{21}{164}, \frac{281}{656}, \frac{281}{656}, \frac{1}{8}, -\frac{121}{328}) + \frac{1}{328}\sqrt{131586}e^4 \otimes e_9$	{1238, 12457, 1678, 2346789, 2569, 489}
94:15	$0, 0, 0, 0, 0, \frac{1}{763}\sqrt{3794}e^{12}, \frac{8}{763}\sqrt{7}e^{13}, \frac{1}{763}\sqrt{2674}e^{14} + \frac{2}{763}\sqrt{427}e^{23}, \frac{1}{763}\sqrt{1113}e^{45}$	$(\frac{1}{109}, \frac{3}{109}, -\frac{5}{109}, -\frac{3}{109}, \frac{5}{109}, \frac{4}{109}, -\frac{4}{109}, -\frac{2}{109}, \frac{2}{109}) + \frac{1}{763}\sqrt{5026}e^2 \otimes e_9 + \frac{1}{763}\sqrt{714}e^4 \otimes e_7 + \frac{2}{763}\sqrt{1043}e^5 \otimes e_6$	{12458, 2678}
94:15	$0, 0, 0, 0, 0, \frac{1}{580}\sqrt{41173}e^{12}, \frac{3}{580}\sqrt{2090}e^{13}, \frac{1}{290}\sqrt{6479}e^{14} + \frac{1}{580}\sqrt{41173}e^{23}, \frac{1}{290}\sqrt{22363}e^{45}$	$(-\frac{1}{40}, \frac{9}{29}, -\frac{153}{1160}, \frac{59}{290}, -\frac{147}{580}, \frac{331}{1160}, -\frac{91}{580}, \frac{207}{1160}, -\frac{1}{20}) + \frac{1}{290}\sqrt{32395}e^2 \otimes e_9 + \frac{1}{580}\sqrt{84854}e^4 \otimes e_7$	{134689, 15679, 35789, 49}
94:15	$0, 0, 0, 0, 0, \frac{6}{1187}\sqrt{2805}e^{12}, \frac{44}{1187}\sqrt{51}e^{13}, \frac{14}{1187}\sqrt{935}e^{14} + \frac{6}{1187}\sqrt{2805}e^{23}, \frac{1187}{1187}\sqrt{58718}e^{45}$	$(-\frac{129}{1187}, \frac{151}{1187}, \frac{116}{1187}, \frac{94}{1187}, \frac{339}{1187}, -\frac{280}{1187}, -\frac{13}{1187}, \frac{35}{1187}, \frac{433}{1187}) + \frac{2}{1187}\sqrt{99858}e^4 \otimes e_6 + \frac{2}{1187}\sqrt{99858}e^5 \otimes e_8$	{123457, 13678, 23569, 3489}
94:15	$0, 0, 0, 0, 0, \frac{2}{4241}\sqrt{339465}e^{12}, \frac{60}{4241}\sqrt{106}e^{13}, \frac{106}{4241}\sqrt{65}e^{14} + \frac{2}{4241}\sqrt{172515}e^{23}, \frac{8}{4241}\sqrt{19610}e^{45}$	$(\frac{69}{4241}, -\frac{253}{4241}, \frac{668}{4241}, \frac{346}{4241}, -\frac{807}{4241}, -\frac{184}{4241}, \frac{737}{4241}, \frac{415}{4241}, -\frac{461}{4241}) + \frac{2}{4241}\sqrt{488130}e^4 \otimes e_6 + \frac{2}{4241}\sqrt{535830}e^1 \otimes e_9$	{12457, 1678, 2569, 489}
94:15	$0, 0, 0, 0, 0, \frac{2}{3449}\sqrt{149055}e^{12}, \frac{4}{3449}\sqrt{25935}e^{13}, \frac{2}{3449}\sqrt{89205}e^{14} + \frac{2}{3449}\sqrt{342285}e^{23}, \frac{114}{3449}\sqrt{110}e^{45}$	$(\frac{473}{3449}, \frac{369}{3449}, -\frac{518}{3449}, -\frac{622}{3449}, \frac{421}{3449}, \frac{842}{3449}, -\frac{45}{3449}, -\frac{149}{3449}, -\frac{201}{3449}) + \frac{12}{3449}\sqrt{10735}e^5 \otimes e_8 + \frac{2}{3449}\sqrt{505590}e^2 \otimes e_9$	{1346789, 1569, 23456, 2678}
94:15	$0, 0, 0, 0, 0, \frac{285}{812}e^{12}, \frac{285}{812}e^{13}, \frac{19}{812}\sqrt{390}e^{14} + \frac{19}{812}\sqrt{222}e^{23}, \frac{19}{812}\sqrt{226}e^{45}$	$(\frac{57}{406}, \frac{171}{1624}, \frac{171}{1624}, \frac{57}{812}, -\frac{76}{203}, \frac{57}{232}, \frac{57}{232}, \frac{171}{812}, -\frac{247}{812}) + \frac{19}{406}\sqrt{139}e^4 \otimes e_5 + \frac{19}{812}\sqrt{894}e^1 \otimes e_9$	{2346789, 2569, 489}
94:15	$0, 0, 0, 0, 0, \frac{2}{909}\sqrt{44330}e^{12}, \frac{20}{909}\sqrt{143}e^{13}, \frac{26}{909}\sqrt{187}e^{14} + \frac{20}{909}\sqrt{143}e^{23}, \frac{4}{909}\sqrt{8723}e^{45}$	$(-\frac{98}{909}, \frac{79}{909}, -\frac{109}{909}, \frac{68}{909}, \frac{89}{303}, -\frac{19}{909}, -\frac{23}{101}, -\frac{10}{303}, \frac{335}{909}) + \frac{2}{909}\sqrt{56914}e^2 \otimes e_7 + \frac{4}{909}\sqrt{15015}e^5 \otimes e_6$	{12359, 167, 268, 35789}
94:15	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22}e^{12}, \frac{2}{245}\sqrt{30}e^{13}, \frac{2}{245}\sqrt{173}e^{14} + \frac{12}{245}e^{23}, \frac{2}{245}\sqrt{269}e^{45}$	$(\frac{6}{245}, -\frac{22}{245}, \frac{4}{49}, -\frac{8}{245}, \frac{6}{245}, -\frac{16}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{2}{245}) - \frac{2}{245}\sqrt{219}e^5 \otimes e_8 + \frac{6}{245}\sqrt{39}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^4 \otimes e_6$	{12457, 1678, 2569, 489}
94:15	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22}e^{12}, \frac{2}{245}\sqrt{30}e^{13}, \frac{2}{245}\sqrt{173}e^{14} + \frac{12}{245}e^{23}, \frac{2}{245}\sqrt{269}e^{45}$	$(\frac{6}{245}, -\frac{22}{245}, \frac{4}{49}, -\frac{8}{245}, \frac{6}{245}, -\frac{16}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{2}{245}) + \frac{2}{245}\sqrt{219}e^5 \otimes e_8 + \frac{6}{245}\sqrt{39}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^4 \otimes e_6$	{12457, 1678, 2569, 489}
94:15	$0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1702}e^{12}, \frac{2}{293}\sqrt{1702}e^{13}, \frac{2}{293}\sqrt{1771}e^{14} + \frac{2}{293}\sqrt{1702}e^{23}, \frac{2}{293}\sqrt{782}e^{45}$	$(-\frac{46}{293}, \frac{11}{293}, \frac{11}{293}, \frac{68}{293}, -\frac{9}{293}, -\frac{35}{293}, -\frac{35}{293}, \frac{22}{293}, \frac{59}{293}) + \frac{2}{293}\sqrt{3082}e^2 \otimes e_7 - \frac{2}{293}\sqrt{3082}e^3 \otimes e_6$	{123, 12359, 15679, 167, 25689, 268}
94:15	$0, 0, 0, 0, 0, \frac{1}{357}\sqrt{15}e^{12}, \frac{2}{357}\sqrt{185}e^{13}, \frac{2}{357}\sqrt{155}e^{14} + \frac{1}{357}\sqrt{1155}e^{23}, \frac{5}{357}\sqrt{43}e^{45}$	$(\frac{16}{357}, \frac{3}{119}, -\frac{4}{119}, -\frac{19}{357}, \frac{2}{357}, \frac{25}{357}, \frac{4}{357}, -\frac{1}{119}, -\frac{1}{21}) + \frac{1}{357}\sqrt{1510}e^3 \otimes e_9 + \frac{1}{357}\sqrt{830}e^5 \otimes e_8 + \frac{1}{357}\sqrt{965}e^2 \otimes e_7$	{1579, 3678}
94:15	$0, 0, 0, 0, 0, \frac{8}{761}\sqrt{2310}e^{12}, \frac{4}{761}\sqrt{2145}e^{13}, \frac{30}{761}\sqrt{11}e^{14} + \frac{4}{761}\sqrt{2145}e^{23}, \frac{2}{761}\sqrt{24585}e^{45}$	$(-\frac{173}{761}, \frac{141}{761}, -\frac{16}{761}, \frac{298}{761}, -\frac{61}{761}, -\frac{32}{761}, -\frac{189}{761}, \frac{125}{761}, \frac{237}{761}) + \frac{2}{761}\sqrt{54285}e^2 \otimes e_7 + \frac{4}{761}\sqrt{14190}e^4 \otimes e_6$	{15679, 167, 25689, 268}
94:15	$0, 0, 0, 0, 0, \frac{1}{2037}\sqrt{854}e^{12}, \frac{4}{291}e^{13}, \frac{1}{2037}\sqrt{210}e^{14} + \frac{1}{2037}\sqrt{519}e^{23}, \frac{1}{2037}\sqrt{322}e^{45}$	$(\frac{2}{679}, -\frac{22}{2037}, \frac{13}{2037}, -\frac{5}{679}, \frac{20}{2037}, -\frac{16}{2037}, \frac{19}{2037}, -\frac{3}{679}, \frac{5}{2037}) + \frac{1}{2037}\sqrt{1037}e^5 \otimes e_7 + \frac{1}{2037}\sqrt{1177}e^4 \otimes e_6 + \frac{1}{2037}\sqrt{1569}e^1 \otimes e_9$	{1678, 2569}
94:15	$0, 0, 0, 0, 0, \frac{1}{320}\sqrt{16017}e^{12}, \frac{1}{320}\sqrt{16017}e^{13}, \frac{1}{160}\sqrt{8711}e^{14} + \frac{1}{320}\sqrt{59010}e^{23}, \frac{1}{160}\sqrt{12083}e^{45}$	$(\frac{3}{20}, -\frac{47}{640}, -\frac{47}{640}, -\frac{19}{64}, \frac{117}{160}, \frac{49}{640}, \frac{49}{640}, -\frac{47}{320}, \frac{139}{320}) + \frac{1}{320}\sqrt{150054}e^5 \otimes e_8$	{1234567, 1268, 145, 2359, 24789, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:15	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{161}e^{12}, \frac{1}{63}\sqrt{161}e^{13}, \frac{1}{63}\sqrt{154}e^{14} + \frac{1}{63}\sqrt{238}e^{23},$ $\frac{1}{21}\sqrt{14}e^{45}$	$(-\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{2}{9})$ $+ \frac{1}{63}\sqrt{154}e^5 \otimes e_8 + \frac{1}{63}\sqrt{329}e^2 \otimes e_7 + \frac{1}{63}\sqrt{329}e^3 \otimes e_6$	{12359, 15679, 268}
94:15	$0, 0, 0, 0, 0, \frac{1}{623}\sqrt{798}e^{12}, \frac{1}{623}\sqrt{429}e^{13}, \frac{1}{623}\sqrt{42}e^{14} + \frac{1}{623}\sqrt{798}e^{23},$ $\frac{6}{623}\sqrt{35}e^{45}$	$(-\frac{10}{623}, \frac{18}{623}, -\frac{17}{623}, \frac{11}{623}, \frac{4}{623}, \frac{8}{623}, -\frac{27}{623}, \frac{1}{623}, \frac{15}{623})$ $+ \frac{1}{623}\sqrt{1437}e^2 \otimes e_9 + \frac{3}{623}\sqrt{113}e^4 \otimes e_6 + \frac{3}{623}\sqrt{113}e^5 \otimes e_8$	{1569, 2678}
94:15	$0, 0, 0, 0, 0, \frac{18}{259}\sqrt{13}e^{12}, \frac{12}{259}\sqrt{3}e^{13}, \frac{18}{259}\sqrt{7}e^{14} + \frac{18}{259}\sqrt{13}e^{23},$ $\frac{6}{259}\sqrt{174}e^{45}$	$(-\frac{33}{259}, \frac{9}{259}, -\frac{12}{259}, \frac{30}{259}, \frac{51}{259}, -\frac{24}{259}, -\frac{45}{259}, -\frac{3}{259}, \frac{81}{259})$ $+ \frac{48}{259}\sqrt{3}e^2 \otimes e_7 + \frac{6}{259}\sqrt{258}e^4 \otimes e_6 + \frac{6}{259}\sqrt{258}e^5 \otimes e_8$	{13678, 23569}
94:15	$0, 0, 0, 0, 0, \frac{2}{193}\sqrt{110}e^{12}, \frac{4}{193}\sqrt{165}e^{13}, \frac{2}{193}\sqrt{627}e^{14} + \frac{4}{193}\sqrt{165}e^{23},$ $\frac{2}{193}\sqrt{638}e^{45}$	$(\frac{4}{193}, \frac{23}{193}, -\frac{3}{193}, \frac{16}{193}, -\frac{41}{193}, \frac{27}{193}, \frac{1}{193}, \frac{20}{193}, -\frac{25}{193})$ $+ \frac{20}{193}\sqrt{11}e^3 \otimes e_9 + \frac{4}{193}\sqrt{209}e^2 \otimes e_7$	{123, 15679, 25689, 378}
94:15	$0, 0, 0, 0, 0, \frac{1}{299}\sqrt{11370}e^{12}, \frac{1}{299}\sqrt{11370}e^{13},$ $\frac{1}{299}\sqrt{93234}e^{14} + \frac{1}{299}\sqrt{11370}e^{23}, \frac{5}{299}\sqrt{758}e^{45}$	$(-\frac{45}{299}, \frac{6}{23}, \frac{6}{23}, \frac{201}{299}, -\frac{178}{299}, \frac{33}{299}, \frac{33}{299}, \frac{12}{23}, \frac{1}{13})$ $+ \frac{1}{299}\sqrt{190258}e^4 \otimes e_5$	{1235678, 1246, 158, 2348, 257, 4678}
94:15	$0, 0, 0, 0, 0, \frac{1}{475}\sqrt{61746}e^{12}, \frac{1}{475}\sqrt{19578}e^{13},$ $\frac{1}{475}\sqrt{34638}e^{14} + \frac{1}{475}\sqrt{61746}e^{23}, \frac{1}{475}\sqrt{75802}e^{45}$	$(\frac{9}{95}, \frac{138}{475}, -\frac{24}{475}, \frac{69}{475}, -\frac{182}{475}, \frac{183}{475}, \frac{21}{475}, \frac{6}{475}, -\frac{113}{475})$ $+ \frac{18}{475}\sqrt{502}e^2 \otimes e_9 + \frac{1}{475}\sqrt{45682}e^4 \otimes e_5$	{1346789, 1569, 3589, 479}
94:15	$0, 0, 0, 0, 0, \frac{22}{3009}\sqrt{2345}e^{12}, \frac{22}{3009}\sqrt{2410}e^{13},$ $\frac{22}{3009}\sqrt{195}e^{14} + \frac{110}{3009}\sqrt{39}e^{23}, \frac{44}{3009}\sqrt{1270}e^{45}$	$(-\frac{195}{1003}, \frac{53}{3009}, \frac{40}{3009}, \frac{226}{1003}, \frac{665}{3009}, -\frac{532}{3009}, -\frac{545}{3009}, \frac{31}{1003}, \frac{79}{177})$ $+ \frac{22}{3009}\sqrt{6770}e^5 \otimes e_7 + \frac{88}{3009}\sqrt{415}e^4 \otimes e_6$	{123458, 13569, 23678, 3479}
94:15	$0, 0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{12}{49}e^{13}, \frac{2}{49}\sqrt{62}e^{14} + \frac{4}{49}\sqrt{6}e^{23}, \frac{2}{49}\sqrt{110}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{16}{49}, \frac{12}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $- \frac{18}{49}\sqrt{2}e^5 \otimes e_8 + \frac{2}{49}\sqrt{186}e^1 \otimes e_9$	{12345, 1278, 14567, 235679, 24689, 59}
94:15	$0, 0, 0, 0, 0, \frac{12}{49}e^{12}, \frac{12}{49}e^{13}, \frac{2}{49}\sqrt{62}e^{14} + \frac{4}{49}\sqrt{6}e^{23}, \frac{2}{49}\sqrt{110}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{16}{49}, \frac{12}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{18}{49}\sqrt{2}e^5 \otimes e_8 + \frac{2}{49}\sqrt{186}e^1 \otimes e_9$	{12345, 1278, 14567, 235679, 24689, 59}
94:15	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{5}e^{14} + \frac{4}{49}\sqrt{5}e^{23},$ $\frac{6}{49}\sqrt{5}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $- \frac{2}{49}\sqrt{51}e^5 \otimes e_8 + \frac{2}{49}\sqrt{71}e^1 \otimes e_9 + \frac{4}{49}\sqrt{14}e^2 \otimes e_7$	{12345, 14567, 24689, 34789}
94:15	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{5}e^{14} + \frac{4}{49}\sqrt{5}e^{23},$ $\frac{6}{49}\sqrt{5}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{51}e^5 \otimes e_8 + \frac{2}{49}\sqrt{71}e^1 \otimes e_9 + \frac{4}{49}\sqrt{14}e^2 \otimes e_7$	{12345, 14567, 24689, 34789}
94:16	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{1}{15}\sqrt{33}e^{34}, \frac{1}{15}\sqrt{6}e^{13} + \frac{1}{15}\sqrt{3}e^{24},$ $\frac{1}{5}e^{15}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0, \frac{1}{5})$ $+ \frac{1}{15}\sqrt{39}e^4 \otimes e_6 + \frac{1}{15}\sqrt{42}e^1 \otimes e_7$	{123458, 123489, 235679, 2367}
94:16	$0, 0, 0, 0, 0, \frac{6}{149}\sqrt{177}e^{12}, \frac{2}{149}\sqrt{177}e^{34}, \frac{2}{149}\sqrt{2183}e^{13} + \frac{4}{149}\sqrt{767}e^{24},$ $\frac{2}{149}\sqrt{3127}e^{15}$	$(-\frac{19}{149}, \frac{70}{149}, \frac{58}{149}, -\frac{31}{149}, -\frac{29}{149}, \frac{51}{149}, \frac{27}{149}, \frac{39}{149}, -\frac{48}{149})$ $+ \frac{10}{149}\sqrt{295}e^2 \otimes e_9$	{123578, 12457, 134689, 169, 2346, 268, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{28}\sqrt{14}e^{34}, \frac{5}{56}\sqrt{14}e^{13} + \frac{1}{28}\sqrt{70}e^{24},$ $\frac{1}{56}\sqrt{518}e^{15}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{56}\sqrt{658}e^3 \otimes e_9 - \frac{1}{56}\sqrt{770}e^5 \otimes e_8$	{123456, 12689, 1357, 14789, 2378, 24579, 3468, 569}
94:16	$0, 0, 0, 0, 0, \frac{1}{14}\sqrt{21}e^{12}, \frac{1}{28}\sqrt{14}e^{34}, \frac{5}{56}\sqrt{14}e^{13} + \frac{1}{28}\sqrt{70}e^{24},$ $\frac{1}{56}\sqrt{518}e^{15}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{56}\sqrt{658}e^3 \otimes e_9 + \frac{1}{56}\sqrt{770}e^5 \otimes e_8$	{123456, 12689, 1357, 14789, 2378, 24579, 3468, 569}
94:16	$0, 0, 0, 0, 0, \frac{4}{359}\sqrt{77}e^{12}, \frac{2}{1077}\sqrt{2758}e^{34}, \frac{14}{1077}\sqrt{43}e^{13} + \frac{28}{1077}\sqrt{7}e^{24},$ $\frac{2}{1077}\sqrt{42}e^{15}$	$(-\frac{4}{359}, -\frac{5}{359}, -\frac{16}{1077}, -\frac{13}{1077}, \frac{83}{1077}, -\frac{9}{359}, -\frac{29}{1077}, -\frac{28}{1077}, \frac{71}{1077})$ $+ \frac{20}{1077}\sqrt{35}e^2 \otimes e_7 + \frac{20}{1077}\sqrt{35}e^4 \otimes e_6$	{2568, 2689, 4578, 4789}
94:16	$0, 0, 0, 0, 0, \frac{1}{327}\sqrt{12502}e^{12}, \frac{7}{327}\sqrt{589}e^{34}, \frac{1}{327}\sqrt{3990}e^{13} + \frac{1}{327}\sqrt{4389}e^{24},$ $\frac{19}{327}\sqrt{35}e^{15}$	$(-\frac{14}{109}, \frac{253}{654}, \frac{27}{109}, -\frac{175}{654}, -\frac{10}{327}, \frac{169}{654}, -\frac{13}{654}, \frac{13}{109}, -\frac{52}{327})$ $+ \frac{1}{327}\sqrt{36442}e^3 \otimes e_9 + \frac{1}{327}\sqrt{40565}e^2 \otimes e_7$	{2346, 25689, 37, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:16	$0, 0, 0, 0, 0, \frac{6}{1123}\sqrt{24171e^{12}} + \frac{2}{1123}\sqrt{3453e^{34}},$ $\frac{1}{1123}\sqrt{877062e^{13}} + \frac{1}{1123}\sqrt{448890e^{24}}, \frac{1}{1123}\sqrt{453494e^{15}}$	$(\frac{561}{1123}, -\frac{15}{1123}, -\frac{207}{1123}, \frac{369}{1123}, -\frac{590}{1123}, \frac{546}{1123}, \frac{162}{1123}, \frac{354}{1123}, -\frac{29}{1123})$ $+ \frac{1}{1123}\sqrt{2198410e^1} \otimes e_5$	{123, 1248, 13467, 1678, 2345678, 2567, 358, 45}
94:16	$0, 0, 0, 0, 0, \frac{4}{739}\sqrt{127e^{12}}, \frac{2}{739}\sqrt{9017e^{34}}, \frac{4}{739}\sqrt{4191e^{13}} + \frac{2}{739}\sqrt{8509e^{24}},$ $\frac{2}{739}\sqrt{25527e^{15}}$	$(\frac{75}{739}, \frac{10}{739}, -\frac{122}{739}, -\frac{57}{739}, \frac{207}{739}, \frac{85}{739}, -\frac{179}{739}, -\frac{47}{739}, \frac{282}{739})$ $+ \frac{2}{739}\sqrt{41529e^5} \otimes e_8 + \frac{2}{739}\sqrt{42037e^1} \otimes e_7$	{12345, 1289, 23678, 245679}
94:16	$0, 0, 0, 0, 0, \frac{8}{1039}\sqrt{1155e^{12}}, \frac{16}{1039}\sqrt{1155e^{34}},$ $\frac{24}{1039}\sqrt{385e^{13}} + \frac{12}{1039}\sqrt{2310e^{24}}, \frac{140}{1039}\sqrt{22e^{15}}$	$(\frac{165}{1039}, -\frac{93}{1039}, \frac{72}{1039}, \frac{330}{1039}, -\frac{395}{1039}, \frac{72}{1039}, \frac{402}{1039}, \frac{237}{1039}, -\frac{230}{1039})$ $+ \frac{4}{1039}\sqrt{52710e^4} \otimes e_9 + \frac{2}{1039}\sqrt{2590e^1} \otimes e_5$	{1236789, 19, 2589, 35679}
94:16	$0, 0, 0, 0, 0, \frac{2}{333}\sqrt{8555e^{12}}, \frac{8}{333}\sqrt{290e^{34}}, \frac{1}{333}\sqrt{870e^{13}} + \frac{5}{333}\sqrt{58e^{24}},$ $\frac{29}{333}\sqrt{10e^{15}}$	$(\frac{25}{111}, -\frac{89}{333}, -\frac{11}{111}, \frac{131}{333}, -\frac{70}{333}, -\frac{14}{333}, \frac{98}{333}, \frac{14}{111}, \frac{5}{333})$ $+ \frac{1}{333}\sqrt{38570e^1} \otimes e_5 + \frac{2}{333}\sqrt{12035e^4} \otimes e_6$	{1234, 1367, 235678, 3458}
94:16	$0, 0, 0, 0, 0, \frac{28}{199}\sqrt{5e^{12}}, \frac{2}{199}\sqrt{2170e^{34}}, \frac{20}{199}\sqrt{14e^{13}} + \frac{2}{199}\sqrt{462e^{24}},$ $\frac{18}{199}\sqrt{14e^{15}}$	$(-\frac{6}{199}, -\frac{32}{199}, -\frac{8}{199}, \frac{18}{199}, \frac{66}{199}, -\frac{38}{199}, \frac{10}{199}, -\frac{14}{199}, \frac{60}{199})$ $+ \frac{2}{199}\sqrt{2590e^4} \otimes e_6 + \frac{4}{199}\sqrt{609e^5} \otimes e_7$	{12479, 156, 25689, 478}
94:16	$0, 0, 0, 0, 0, \frac{36}{3461}\sqrt{2065e^{12}}, \frac{18}{3461}\sqrt{6090e^{34}},$ $\frac{18}{3461}\sqrt{5691e^{13}} + \frac{252}{3461}\sqrt{10e^{24}}, \frac{18}{3461}\sqrt{3178e^{15}}$	$(-\frac{476}{3461}, \frac{617}{3461}, \frac{288}{3461}, \frac{805}{3461}, \frac{1275}{3461}, \frac{141}{3461}, -\frac{517}{3461}, -\frac{188}{3461}, \frac{799}{3461})$ $+ \frac{36}{3461}\sqrt{2422e^5} \otimes e_6 + \frac{36}{3461}\sqrt{3031e^2} \otimes e_7$	{2346, 268, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{10}{2821}\sqrt{10981e^{12}}, \frac{2}{2821}\sqrt{217645e^{34}},$ $\frac{2}{2821}\sqrt{71495e^{13}} + \frac{10}{2821}\sqrt{14615e^{24}}, \frac{18}{2821}\sqrt{303755e^{15}}$	$(\frac{337}{2821}, \frac{666}{2821}, -\frac{2}{91}, -\frac{391}{2821}, -\frac{461}{2821}, \frac{1003}{2821}, -\frac{453}{2821}, \frac{275}{2821}, -\frac{4}{91})$ $+ \frac{2}{2821}\sqrt{474395e^2} \otimes e_9 + \frac{8}{2821}\sqrt{32390e^1} \otimes e_7$	{134689, 169, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{9}{1897}\sqrt{1027e^{12}}, \frac{9}{1897}\sqrt{618e^{34}},$ $\frac{18}{1897}\sqrt{107e^{13}} + \frac{18}{1897}\sqrt{19e^{24}}, \frac{9}{1897}\sqrt{1065e^{15}}$	$(-\frac{81}{1897}, \frac{171}{1897}, \frac{45}{1897}, -\frac{207}{1897}, \frac{171}{1897}, \frac{90}{1897}, -\frac{162}{1897}, -\frac{36}{1897}, \frac{90}{1897})$ $+ \frac{9}{1897}\sqrt{1165e^2} \otimes e_9 + \frac{9}{1897}\sqrt{1222e^1} \otimes e_7 - \frac{9}{271}\sqrt{23e^5} \otimes e_6$	{134689, 169, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{2}{159}\sqrt{959e^{12}}, \frac{4}{159}\sqrt{427e^{34}}, \frac{2}{159}\sqrt{105e^{13}} + \frac{2}{159}\sqrt{777e^{24}},$ $\frac{2}{159}\sqrt{406e^{15}}$	$(-\frac{49}{212}, \frac{37}{636}, \frac{19}{106}, -\frac{35}{318}, \frac{67}{159}, -\frac{55}{318}, \frac{11}{159}, -\frac{11}{212}, \frac{121}{636})$ $+ \frac{2}{159}\sqrt{1841e^5} \otimes e_7 + \frac{2}{159}\sqrt{2170e^3} \otimes e_6$	{12379, 1568, 2569, 378}
94:16	$0, 0, 0, 0, 0, \frac{15}{6181}\sqrt{1670e^{12}}, \frac{60}{6181}\sqrt{214e^{34}},$ $\frac{30}{6181}\sqrt{399e^{13}} + \frac{255}{6181}\sqrt{2e^{24}}, \frac{960}{6181}e^{15}$	$(\frac{405}{6181}, -\frac{645}{6181}, -\frac{435}{6181}, \frac{615}{6181}, -\frac{15}{6181}, -\frac{240}{6181}, \frac{180}{6181}, -\frac{30}{6181}, \frac{390}{6181})$ $+ \frac{15}{6181}\sqrt{4022e^1} \otimes e_7 + \frac{15}{6181}\sqrt{4274e^4} \otimes e_9 + \frac{30}{6181}\sqrt{777e^5} \otimes e_6$	{169, 3579}
94:16	$0, 0, 0, 0, 0, \frac{8}{445}\sqrt{182e^{12}}, \frac{8}{445}\sqrt{273e^{34}}, \frac{56}{445}\sqrt{15e^{13}} + \frac{8}{445}\sqrt{182e^{24}},$ $\frac{8}{445}\sqrt{273e^{15}}$	$(-\frac{119}{445}, -\frac{1}{445}, \frac{104}{445}, -\frac{14}{445}, \frac{209}{445}, -\frac{24}{89}, \frac{18}{89}, -\frac{3}{89}, \frac{18}{89})$ $+ \frac{8}{445}\sqrt{1379e^3} \otimes e_6 + \frac{8}{445}\sqrt{1379e^5} \otimes e_8$	{12345, 146789, 245679, 348}
94:16	$0, 0, 0, 0, 0, \frac{18}{3101}\sqrt{21e^{12}}, \frac{6}{3101}\sqrt{557e^{34}},$ $\frac{3}{3101}\sqrt{1870e^{13}} + \frac{6}{3101}\sqrt{347e^{24}}, \frac{9}{3101}\sqrt{334e^{15}}$	$(\frac{33}{3101}, -\frac{93}{3101}, -\frac{51}{3101}, \frac{75}{3101}, \frac{33}{3101}, -\frac{60}{3101}, \frac{24}{3101}, -\frac{18}{3101}, \frac{66}{3101})$ $+ \frac{3}{3101}\sqrt{190e^3} \otimes e_6 + \frac{3}{3101}\sqrt{2626e^5} \otimes e_7 + \frac{6}{3101}\sqrt{830e^4} \otimes e_9$	{1236789, 2589}
94:16	$0, 0, 0, 0, 0, \frac{20}{3181}\sqrt{413e^{12}}, \frac{20}{3181}\sqrt{1855e^{34}},$ $\frac{10}{3181}\sqrt{6587e^{13}} + \frac{10}{3181}\sqrt{6594e^{24}}, \frac{120}{3181}\sqrt{42e^{15}}$	$(\frac{120}{3181}, \frac{395}{3181}, \frac{160}{3181}, -\frac{115}{3181}, -\frac{585}{3181}, \frac{515}{3181}, \frac{45}{3181}, \frac{280}{3181}, -\frac{465}{3181})$ $+ \frac{10}{3181}\sqrt{9058e^2} \otimes e_7 + \frac{20}{3181}\sqrt{2814e^4} \otimes e_9$	{2346, 25689, 3579, 478}
94:16	$0, 0, 0, 0, 0, \frac{2}{333}\sqrt{8555e^{12}}, \frac{8}{333}\sqrt{290e^{34}}, \frac{1}{333}\sqrt{870e^{13}} + \frac{5}{333}\sqrt{58e^{24}},$ $\frac{29}{333}\sqrt{10e^{15}}$	$(\frac{25}{111}, \frac{77}{333}, -\frac{11}{111}, -\frac{35}{333}, -\frac{70}{333}, \frac{152}{333}, -\frac{68}{333}, \frac{14}{111}, \frac{5}{333})$ $+ \frac{1}{333}\sqrt{38570e^1} \otimes e_5 + \frac{2}{333}\sqrt{12035e^2} \otimes e_7$	{1234, 128, 1367, 14678}
94:16	$0, 0, 0, 0, 0, \frac{4}{149}\sqrt{767e^{12}}, \frac{2}{149}\sqrt{3127e^{34}}, \frac{2}{149}\sqrt{2183e^{13}} + \frac{6}{149}\sqrt{177e^{24}},$ $\frac{2}{149}\sqrt{177e^{15}}$	$(\frac{6}{149}, -\frac{55}{149}, \frac{8}{149}, \frac{69}{149}, \frac{21}{149}, -\frac{49}{149}, \frac{77}{149}, \frac{14}{149}, \frac{27}{149})$ $+ \frac{10}{149}\sqrt{295e^4} \otimes e_6$	{12457, 12479, 156, 169, 25689, 268, 45789, 478}
94:16	$0, 0, 0, 0, 0, \frac{9}{1897}\sqrt{1027e^{12}}, \frac{9}{1897}\sqrt{618e^{34}},$ $\frac{18}{1897}\sqrt{107e^{13}} + \frac{18}{1897}\sqrt{19e^{24}}, \frac{9}{1897}\sqrt{1065e^{15}}$	$(-\frac{81}{1897}, \frac{171}{1897}, \frac{45}{1897}, -\frac{207}{1897}, \frac{171}{1897}, \frac{90}{1897}, -\frac{162}{1897}, -\frac{36}{1897}, \frac{90}{1897})$ $+ \frac{9}{1897}\sqrt{1165e^2} \otimes e_9 + \frac{9}{1897}\sqrt{1222e^1} \otimes e_7 + \frac{9}{271}\sqrt{23e^5} \otimes e_6$	{134689, 169, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{164}{589}\sqrt{2e^{12}}, \frac{24}{589}\sqrt{205e^{34}}, \frac{8}{589}\sqrt{1763e^{13}} + \frac{4}{589}\sqrt{9061e^{24}},$ $\frac{4}{589}\sqrt{11521e^{15}}$	$(\frac{3}{31}, -\frac{55}{589}, \frac{4}{31}, \frac{188}{589}, -\frac{197}{589}, \frac{2}{589}, \frac{264}{589}, \frac{7}{31}, -\frac{140}{589})$ $+ \frac{4}{589}\sqrt{20705e^4} \otimes e_9$	{1236789, 124567, 13458, 19, 234, 2589, 35679, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:16	$0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{541994e^{12}}, \frac{3}{1147}\sqrt{35238e^{34}}, \frac{4}{1147}\sqrt{27687e^{13}} + \frac{1}{1147}\sqrt{780270e^{24}}, \frac{2}{1147}\sqrt{168639e^{15}}$	$(-\frac{181}{1147}, \frac{20}{1147}, \frac{87}{1147}, -\frac{114}{1147}, \frac{745}{1147}, -\frac{161}{1147}, -\frac{27}{1147}, -\frac{94}{1147}, \frac{564}{1147}) + \frac{1}{1147}\sqrt{1652830e^5} \otimes e_8$	{1234567, 126789, 135, 1489, 238, 2459, 34678, 5679}
94:16	$0, 0, 0, 0, 0, \frac{20}{3849}\sqrt{354e^{12}}, \frac{80}{3849}\sqrt{22e^{34}}, \frac{20}{3849}\sqrt{178e^{13}} + \frac{10}{3849}\sqrt{1087e^{24}}, \frac{20}{3849}\sqrt{6e^{15}}$	$(-\frac{16}{1283}, -\frac{18}{1283}, -\frac{52}{3849}, -\frac{46}{3849}, \frac{299}{3849}, -\frac{34}{1283}, -\frac{98}{3849}, -\frac{100}{3849}, \frac{251}{3849}) + \frac{10}{3849}\sqrt{1781e^1} \otimes e_7 + \frac{10}{3849}\sqrt{1793e^3} \otimes e_6$	{15689, 168, 3578, 3789}
94:16	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{55e^{12}}, \frac{2}{119}\sqrt{30e^{34}}, \frac{10}{119}\sqrt{3e^{13}} + \frac{2}{119}\sqrt{195e^{24}}, \frac{10}{119}\sqrt{6e^{15}}$	$(-\frac{1}{7}, \frac{4}{119}, \frac{18}{119}, -\frac{3}{119}, \frac{11}{119}, -\frac{13}{119}, \frac{15}{119}, \frac{1}{119}, -\frac{6}{119}) + \frac{2}{119}\sqrt{165e^4} \otimes e_6 + \frac{30}{119}e^2 \otimes e_9 + \frac{8}{119}\sqrt{10e^5} \otimes e_8$	{12457, 268}
94:16	$0, 0, 0, 0, 0, \frac{3}{1463}\sqrt{978e^{12}}, \frac{6}{1463}\sqrt{330e^{34}}, \frac{18}{1463}\sqrt{7e^{13}} + \frac{3}{1463}\sqrt{2298e^{24}}, \frac{6}{1463}\sqrt{834e^{15}}$	$(\frac{3}{77}, -\frac{111}{1463}, -\frac{69}{1463}, \frac{9}{133}, \frac{15}{1463}, -\frac{54}{1463}, \frac{30}{1463}, -\frac{12}{1463}, \frac{72}{1463}) + \frac{18}{1463}\sqrt{77e^5} \otimes e_8 + \frac{3}{1463}\sqrt{1794e^1} \otimes e_7 + \frac{3}{1463}\sqrt{3558e^4} \otimes e_9$	{35679, 4678}
94:16	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{21e^{12}}, \frac{1}{49}\sqrt{3e^{34}}, \frac{3}{49}\sqrt{3e^{13}} + \frac{11}{49}e^{24}, \frac{2}{49}\sqrt{30e^{15}}$	$(\frac{3}{98}, -\frac{11}{98}, -\frac{2}{49}, \frac{5}{49}, \frac{3}{98}, -\frac{4}{49}, \frac{3}{49}, -\frac{1}{98}, \frac{3}{49}) + \frac{1}{49}\sqrt{111e^5} \otimes e_8 + \frac{1}{49}\sqrt{123e^4} \otimes e_9 + \frac{1}{49}\sqrt{53e^3} \otimes e_6$	{123689, 3569}
94:16	$0, 0, 0, 0, 0, \frac{1}{327}\sqrt{12502e^{12}}, \frac{7}{327}\sqrt{589e^{34}}, \frac{1}{327}\sqrt{3990e^{13}} + \frac{1}{327}\sqrt{4389e^{24}}, \frac{19}{327}\sqrt{35e^{15}}$	$(-\frac{14}{109}, \frac{26}{327}, \frac{27}{109}, \frac{65}{327}, -\frac{10}{327}, -\frac{68}{327}, \frac{146}{109}, \frac{13}{109}, -\frac{52}{327}) + \frac{1}{327}\sqrt{36442e^3} \otimes e_9 + \frac{1}{327}\sqrt{40565e^4} \otimes e_6$	{12479, 169, 25689, 45789}
94:16	$0, 0, 0, 0, 0, \frac{14}{1047}\sqrt{165e^{12}}, \frac{70}{349}e^{34}, \frac{14}{1047}\sqrt{15e^{13}} + \frac{4}{1047}\sqrt{10815e^{24}}, \frac{2}{1047}\sqrt{39585e^{15}}$	$(-\frac{203}{1047}, \frac{72}{349}, \frac{202}{1047}, -\frac{217}{1047}, \frac{209}{1047}, \frac{13}{1047}, -\frac{5}{349}, -\frac{1}{1047}, \frac{2}{349}) + \frac{2}{1047}\sqrt{48405e^2} \otimes e_9 + \frac{8}{1047}\sqrt{3255e^5} \otimes e_8$	{12456, 134789, 278, 3569}
94:16	$0, 0, 0, 0, 0, \frac{6}{751}\sqrt{4053e^{12}}, \frac{2}{751}\sqrt{579e^{34}}, \frac{2}{751}\sqrt{193e^{13}} + \frac{4}{751}\sqrt{4439e^{24}}, \frac{2}{751}\sqrt{17563e^{15}}$	$(\frac{91}{751}, \frac{182}{751}, \frac{86}{751}, -\frac{5}{751}, -\frac{295}{751}, \frac{273}{751}, \frac{81}{751}, \frac{177}{751}, -\frac{204}{751}) + \frac{24}{751}\sqrt{386e^1} \otimes e_5 + \frac{2}{751}\sqrt{73147e^2} \otimes e_9$	{1369, 14689, 345789, 579}
94:16	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{51e^{12}}, \frac{12}{59}\sqrt{17e^{34}}, \frac{5}{59}\sqrt{51e^{13}} + \frac{1}{59}\sqrt{51e^{24}}, \frac{12}{59}\sqrt{17e^{15}}$	$(-\frac{3}{118}, \frac{21}{118}, -\frac{59}{59}, -\frac{14}{59}, \frac{35}{59}, \frac{9}{59}, -\frac{16}{59}, -\frac{7}{118}, \frac{67}{118}) + \frac{3}{59}\sqrt{561e^5} \otimes e_7$	{1234568, 1256, 13789, 1479, 237, 2478, 34569, 5689}
94:16	$0, 0, 0, 0, 0, \frac{1}{2513}\sqrt{2374e^{12}}, \frac{1}{2513}\sqrt{2262e^{34}}, \frac{1}{2513}\sqrt{894e^{13}} + \frac{2}{2513}\sqrt{489e^{24}}, \frac{4}{2513}\sqrt{21e^{15}}$	$(\frac{13}{2513}, -\frac{29}{2513}, -\frac{15}{2513}, \frac{27}{2513}, -\frac{1}{2513}, -\frac{16}{2513}, \frac{12}{2513}, -\frac{2}{2513}, \frac{12}{2513}) + \frac{1}{2513}\sqrt{2598e^1} \otimes e_7 + \frac{1}{2513}\sqrt{2766e^3} \otimes e_6 + \frac{1}{2513}\sqrt{698e^5} \otimes e_8$	{15689, 3578}
94:16	$0, 0, 0, 0, 0, \frac{1}{33}\sqrt{130e^{12}}, \frac{2}{33}\sqrt{15e^{34}}, \frac{10}{33}e^{13} + \frac{1}{11}\sqrt{10e^{24}}, \frac{1}{33}\sqrt{70e^{15}}$	$(0, -\frac{2}{33}, \frac{1}{11}, \frac{5}{33}, -\frac{5}{33}, -\frac{2}{33}, \frac{8}{33}, \frac{1}{11}, -\frac{5}{33}) + \frac{1}{33}\sqrt{170e^3} \otimes e_6 + \frac{2}{33}\sqrt{35e^1} \otimes e_5$	{1237, 168, 256, 3578}
94:16	$0, 0, 0, 0, 0, \frac{6}{965}\sqrt{3094e^{12}}, \frac{8}{965}\sqrt{357e^{34}}, \frac{2}{965}\sqrt{27251e^{13}} + \frac{4}{965}\sqrt{5117e^{24}}, \frac{16}{965}\sqrt{595e^{15}}$	$(-\frac{238}{965}, \frac{163}{965}, \frac{268}{965}, -\frac{133}{965}, \frac{163}{965}, -\frac{15}{193}, \frac{27}{193}, \frac{6}{193}, -\frac{15}{193}) - \frac{12}{965}\sqrt{1309e^5} \otimes e_6 + \frac{2}{965}\sqrt{57358e^2} \otimes e_9$	{123578, 12457, 134689, 169, 2346, 268, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{40}{1729}\sqrt{7e^{12}}, \frac{10}{247}\sqrt{5e^{34}}, \frac{15}{1729}\sqrt{107e^{13}} + \frac{30}{1729}\sqrt{21e^{24}}, \frac{10}{1729}\sqrt{238e^{15}}$	$(-\frac{5}{91}, \frac{80}{1729}, \frac{115}{1729}, -\frac{60}{1729}, \frac{10}{1729}, -\frac{15}{1729}, \frac{55}{1729}, \frac{20}{1729}, -\frac{85}{1729}) + \frac{185}{1729}e^4 \otimes e_9 + \frac{25}{1729}\sqrt{29e^5} \otimes e_6 + \frac{5}{1729}\sqrt{1117e^2} \otimes e_7$	{2346, 3579}
94:16	$0, 0, 0, 0, 0, \frac{8}{3071}\sqrt{5385e^{12}}, \frac{24}{3071}\sqrt{190e^{34}}, \frac{24}{3071}\sqrt{145e^{13}} + \frac{80}{3071}\sqrt{166e^{24}}, \frac{4}{3071}\sqrt{39630e^{15}}$	$(-\frac{191}{3071}, -\frac{289}{3071}, \frac{184}{3071}, \frac{282}{3071}, \frac{233}{3071}, -\frac{480}{3071}, \frac{466}{3071}, -\frac{7}{3071}, \frac{42}{3071}) + \frac{4}{3071}\sqrt{45510e^4} \otimes e_9 + \frac{8}{3071}\sqrt{9870e^5} \otimes e_8$	{1236789, 124567, 35679, 4678}
94:16	$0, 0, 0, 0, 0, \frac{1}{889}\sqrt{730e^{12}}, \frac{2}{889}\sqrt{385e^{34}}, \frac{16}{889}\sqrt{5e^{13}} + \frac{4}{889}\sqrt{195e^{24}}, \frac{3}{889}\sqrt{330e^{15}}$	$(-\frac{33}{889}, \frac{23}{889}, \frac{37}{889}, -\frac{19}{889}, \frac{9}{889}, -\frac{10}{889}, \frac{18}{889}, \frac{4}{889}, -\frac{24}{889}) + \frac{16}{889}\sqrt{15e^4} \otimes e_9 + \frac{1}{889}\sqrt{1990e^2} \otimes e_7 + \frac{9}{889}\sqrt{30e^5} \otimes e_8$	{35679, 4678}
94:16	$0, 0, 0, 0, 0, \frac{14}{765}\sqrt{77e^{12}}, \frac{4}{765}\sqrt{5313e^{34}}, \frac{14}{765}\sqrt{22e^{13}} + \frac{14}{765}\sqrt{77e^{24}}, \frac{4}{765}\sqrt{5313e^{15}}$	$(-\frac{49}{255}, \frac{164}{765}, \frac{10}{51}, -\frac{161}{765}, \frac{143}{765}, \frac{1}{45}, -\frac{11}{765}, \frac{1}{255}, -\frac{4}{765}) + \frac{2}{765}\sqrt{26642e^3} \otimes e_9 + \frac{2}{765}\sqrt{27181e^5} \otimes e_7$	{1234568, 1479, 237, 5689}
94:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42e^{12}}, \frac{2}{35}\sqrt{14e^{34}}, \frac{2}{35}\sqrt{14e^{13}} + \frac{2}{35}\sqrt{21e^{24}}, \frac{3}{35}\sqrt{14e^{15}}$	$(-\frac{1}{5}, 0, \frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0) + \frac{1}{35}\sqrt{182e^5} \otimes e_8 + \frac{1}{5}\sqrt{2e^4} \otimes e_6 + \frac{2}{35}\sqrt{42e^3} \otimes e_9$	{12689, 14789, 24579, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{2}{35}\sqrt{14}e^{34}, \frac{2}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{21}e^{24},$ $\frac{3}{35}\sqrt{14}e^{15}$	$(-\frac{1}{5}, 0, \frac{1}{5}, 0, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0)$ $-\frac{1}{35}\sqrt{182}e^5 \otimes e_8 + \frac{1}{5}\sqrt{2}e^4 \otimes e_6 + \frac{2}{35}\sqrt{42}e^3 \otimes e_9$	{12689, 14789, 24579, 569}
94:16	$0, 0, 0, 0, 0, \frac{2}{3713}\sqrt{504298}e^{12}, \frac{62}{3713}\sqrt{437}e^{34},$ $\frac{2}{3713}\sqrt{22287}e^{13} + \frac{4}{3713}\sqrt{62054}e^{24}, \frac{2}{3713}\sqrt{380190}e^{15}$	$(\frac{291}{3713}, -\frac{226}{3713}, -\frac{550}{3713}, -\frac{33}{3713}, \frac{939}{3713}, \frac{65}{3713}, -\frac{583}{3713}, -\frac{259}{3713}, \frac{1230}{3713})$ $+\frac{138}{3713}\sqrt{133}e^5 \otimes e_6 + \frac{8}{3713}\sqrt{52003}e^1 \otimes e_7$	{123458, 125, 2367, 24678}
94:16	$0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{780270}e^{12}, \frac{2}{1147}\sqrt{168639}e^{34},$ $\frac{4}{1147}\sqrt{27687}e^{13} + \frac{1}{1147}\sqrt{541994}e^{24}, \frac{3}{1147}\sqrt{35238}e^{15}$	$(-\frac{378}{1147}, \frac{20}{1147}, \frac{13}{31}, \frac{83}{1147}, \frac{351}{1147}, -\frac{358}{1147}, \frac{564}{1147}, \frac{103}{1147}, -\frac{27}{1147})$ $+\frac{1}{1147}\sqrt{1652830}e^3 \otimes e_6$	{123579, 1237, 15689, 168, 256, 269, 3578, 3789}
94:16	$0, 0, 0, 0, 0, \frac{4}{149}\sqrt{767}e^{12}, \frac{2}{149}\sqrt{3127}e^{34}, \frac{2}{149}\sqrt{2183}e^{13} + \frac{6}{149}\sqrt{177}e^{24},$ $\frac{2}{149}\sqrt{177}e^{15}$	$(\frac{6}{149}, \frac{70}{149}, \frac{8}{149}, -\frac{56}{149}, \frac{21}{149}, \frac{76}{149}, -\frac{48}{149}, \frac{14}{149}, \frac{27}{149})$ $+\frac{10}{149}\sqrt{295}e^2 \otimes e_7$	{234569, 2346, 25689, 268, 3579, 37, 45789, 478}
94:16	$0, 0, 0, 0, 0, \frac{1}{749}\sqrt{694}e^{12}, \frac{3}{749}\sqrt{74}e^{34}, \frac{4}{749}\sqrt{33}e^{13} + \frac{1}{749}\sqrt{222}e^{24},$ $\frac{2}{749}\sqrt{21}e^{15}$	$(\frac{13}{749}, -\frac{8}{749}, -\frac{15}{749}, \frac{6}{749}, -\frac{1}{749}, \frac{5}{749}, -\frac{9}{749}, -\frac{2}{749}, \frac{12}{749})$ $+\frac{1}{749}\sqrt{194}e^5 \otimes e_8 + \frac{6}{749}\sqrt{22}e^2 \otimes e_7 + \frac{6}{749}\sqrt{22}e^4 \otimes e_6$	{2568, 4578}
94:16	$0, 0, 0, 0, 0, \frac{36}{805}\sqrt{5}e^{12}, \frac{6}{805}\sqrt{1178}e^{34}, \frac{12}{805}\sqrt{82}e^{13} + \frac{6}{805}\sqrt{14}e^{24},$ $\frac{18}{805}\sqrt{94}e^{15}$	$(-\frac{114}{805}, \frac{12}{805}, \frac{96}{805}, -\frac{6}{161}, \frac{6}{35}, -\frac{102}{805}, \frac{66}{805}, -\frac{18}{805}, \frac{24}{805})$ $+\frac{204}{805}e^5 \otimes e_7 + \frac{24}{805}\sqrt{62}e^3 \otimes e_9 + \frac{6}{805}\sqrt{830}e^4 \otimes e_6$	{12479, 25689}
94:16	$0, 0, 0, 0, 0, \frac{1}{239}\sqrt{8018}e^{12}, \frac{1}{239}\sqrt{29962}e^{34},$ $\frac{3}{239}\sqrt{2110}e^{13} + \frac{1}{239}\sqrt{8018}e^{24}, \frac{1}{239}\sqrt{29962}e^{15}$	$(-\frac{57}{239}, \frac{78}{239}, \frac{123}{239}, -\frac{12}{239}, -\frac{31}{239}, \frac{21}{239}, \frac{111}{239}, \frac{66}{239}, -\frac{88}{239})$ $+\frac{1}{239}\sqrt{83978}e^3 \otimes e_9$	{123567, 1246789, 1345, 189, 2348, 259, 3678, 45679}
94:16	$0, 0, 0, 0, 0, \frac{1}{175}\sqrt{2590}e^{12}, \frac{2}{175}\sqrt{805}e^{34}, \frac{1}{175}\sqrt{1330}e^{13} + \frac{2}{175}\sqrt{70}e^{24},$ $\frac{8}{175}\sqrt{35}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{175}\sqrt{3290}e^3 \otimes e_9 + \frac{1}{175}\sqrt{4270}e^2 \otimes e_7 + \frac{2}{175}\sqrt{910}e^5 \otimes e_6$	{2346, 45789}
94:16	$0, 0, 0, 0, 0, \frac{4}{1047}\sqrt{10815}e^{12}, \frac{2}{1047}\sqrt{39585}e^{34},$ $\frac{14}{1047}\sqrt{15}e^{13} + \frac{14}{1047}\sqrt{165}e^{24}, \frac{70}{349}e^{15}$	$(-\frac{70}{349}, \frac{72}{349}, \frac{72}{349}, -\frac{70}{349}, \frac{65}{349}, \frac{2}{349}, \frac{2}{349}, \frac{2}{349}, -\frac{5}{349})$ $+\frac{2}{1047}\sqrt{48405}e^2 \otimes e_7 + \frac{8}{1047}\sqrt{3255}e^3 \otimes e_6$	{1234589, 12348, 145679, 1467}
94:16	$0, 0, 0, 0, 0, \frac{42}{3209}\sqrt{462}e^{12}, \frac{6}{3209}\sqrt{52899}e^{34},$ $\frac{6}{3209}\sqrt{5005}e^{13} + \frac{12}{3209}\sqrt{4466}e^{24}, \frac{30}{3209}\sqrt{2926}e^{15}$	$(-\frac{959}{3209}, \frac{288}{3209}, \frac{1142}{3209}, -\frac{105}{3209}, \frac{715}{3209}, -\frac{671}{3209}, \frac{1037}{3209}, \frac{183}{3209}, -\frac{244}{3209})$ $+\frac{12}{3209}\sqrt{29722}e^3 \otimes e_9 + \frac{6}{3209}\sqrt{101255}e^5 \otimes e_6$	{12357, 1689, 23468, 4579}
94:16	$0, 0, 0, 0, 0, \frac{4}{311}\sqrt{618}e^{12}, \frac{4}{311}\sqrt{834}e^{34}, \frac{12}{311}\sqrt{170}e^{13} + \frac{8}{311}\sqrt{201}e^{24},$ $\frac{24}{311}\sqrt{10}e^{15}$	$(\frac{24}{311}, \frac{42}{311}, \frac{48}{311}, \frac{30}{311}, -\frac{120}{311}, \frac{66}{311}, \frac{78}{311}, \frac{72}{311}, -\frac{96}{311})$ $+\frac{4}{311}\sqrt{2370}e^1 \otimes e_5 + \frac{4}{311}\sqrt{2658}e^3 \otimes e_9$	{124789, 1689, 2569, 4579}
94:16	$0, 0, 0, 0, 0, \frac{10}{2121}\sqrt{182}e^{12}, \frac{5}{2121}\sqrt{1218}e^{34},$ $\frac{5}{2121}\sqrt{322}e^{13} + \frac{5}{2121}\sqrt{655}e^{34}, \frac{10}{2121}\sqrt{266}e^{15}$	$(-\frac{20}{707}, \frac{115}{2121}, \frac{15}{707}, -\frac{130}{2121}, \frac{80}{2121}, \frac{55}{2121}, -\frac{85}{2121}, -\frac{5}{707}, \frac{20}{2121})$ $+\frac{5}{2121}\sqrt{1327}e^3 \otimes e_9 + \frac{5}{2121}\sqrt{1691}e^1 \otimes e_7 + \frac{5}{2121}\sqrt{921}e^5 \otimes e_6$	{1689, 4579}
94:16	$0, 0, 0, 0, 0, \frac{8}{1399}\sqrt{1995}e^{12}, \frac{16}{1399}\sqrt{1995}e^{34},$ $\frac{8}{1399}\sqrt{1995}e^{13} + \frac{20}{1399}\sqrt{406}e^{24}, \frac{12}{1399}\sqrt{2310}e^{15}$	$(-\frac{135}{1399}, -\frac{97}{1399}, \frac{328}{1399}, \frac{290}{1399}, -\frac{135}{1399}, -\frac{232}{1399}, \frac{618}{1399}, \frac{193}{1399}, -\frac{270}{1399})$ $+\frac{108}{1399}\sqrt{70}e^4 \otimes e_9 + \frac{8}{1399}\sqrt{8890}e^3 \otimes e_6$	{123789, 169, 25689, 3579}
94:16	$0, 0, 0, 0, 0, \frac{11}{1169}\sqrt{97}e^{12}, \frac{11}{1169}\sqrt{78}e^{34}, \frac{33}{1169}\sqrt{5}e^{13} + \frac{143}{1169}\sqrt{3}e^{24},$ $\frac{22}{1169}\sqrt{183}e^{15}$	$(-\frac{44}{1169}, \frac{187}{1169}, \frac{33}{1169}, -\frac{198}{1169}, \frac{110}{1169}, \frac{143}{1169}, -\frac{165}{1169}, -\frac{11}{1169}, \frac{66}{1169})$ $+\frac{11}{1169}\sqrt{597}e^1 \otimes e_7 + \frac{11}{1169}\sqrt{763}e^5 \otimes e_8 + \frac{11}{1169}\sqrt{789}e^2 \otimes e_9$	{12345, 23678}
94:16	$0, 0, 0, 0, 0, \frac{19}{1213}\sqrt{1702}e^{12}, \frac{4}{1213}\sqrt{46805}e^{34},$ $\frac{1}{1213}\sqrt{239982}e^{13} + \frac{4}{1213}\sqrt{26381}e^{24}, \frac{1}{1213}\sqrt{403374}e^{15}$	$(\frac{474}{1213}, \frac{85}{1213}, -\frac{383}{1213}, \frac{6}{1213}, -\frac{39}{1213}, \frac{559}{1213}, -\frac{377}{1213}, \frac{91}{1213}, \frac{435}{1213})$ $+\frac{1}{1213}\sqrt{1727530}e^1 \otimes e_7$	{13456, 13469, 1568, 1689, 35789, 378, 4579, 47}
94:16	$0, 0, 0, 0, 0, \frac{4}{3069}\sqrt{766}e^{12}, \frac{4}{3069}\sqrt{68557}e^{34},$ $\frac{2}{3069}\sqrt{311379}e^{13} + \frac{4}{3069}\sqrt{65110}e^{24}, \frac{2}{3069}\sqrt{486410}e^{15}$	$(-\frac{230}{3069}, -\frac{151}{1023}, \frac{4}{31}, \frac{619}{3069}, \frac{83}{3069}, -\frac{683}{3069}, \frac{1015}{3069}, \frac{166}{3069}, -\frac{49}{1023})$ $+\frac{2}{3069}\sqrt{403682}e^5 \otimes e_6 + \frac{4}{3069}\sqrt{164307}e^4 \otimes e_9$	{12457, 169, 2346, 3579}
94:16	$0, 0, 0, 0, 0, \frac{4}{3909}\sqrt{25199}e^{12}, \frac{14}{1303}\sqrt{669}e^{34},$ $\frac{50}{3909}\sqrt{223}e^{13} + \frac{4}{3909}\sqrt{152755}e^{24}, \frac{8}{3909}\sqrt{13157}e^{15}$	$(\frac{73}{1303}, \frac{578}{3909}, \frac{22}{1303}, -\frac{293}{3909}, -\frac{599}{3909}, \frac{797}{3909}, -\frac{227}{3909}, \frac{95}{1303}, -\frac{380}{3909})$ $+\frac{2}{3909}\sqrt{372187}e^3 \otimes e_9 + \frac{2}{3909}\sqrt{422585}e^1 \otimes e_7$	{13456, 1689, 378, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:16	$0, 0, 0, 0, 0, \frac{2}{99}\sqrt{1570}e^{12}, \frac{2}{297}\sqrt{5809}e^{34}, \frac{2}{297}\sqrt{8007}e^{13} + \frac{4}{297}\sqrt{314}e^{24},$ $\frac{2}{297}\sqrt{13502}e^{15}$	$(-\frac{73}{297}, -\frac{10}{99}, \frac{2}{297}, \frac{23}{297}, \frac{211}{297}, -\frac{103}{297}, \frac{89}{297}, -\frac{7}{297}, \frac{46}{99})$ $+\frac{14}{297}\sqrt{785}e^5 \otimes e_6$	{123458, 125, 136789, 14679, 2367, 24678, 3459, 589}
94:16	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{14}e^{12}, \frac{1}{203}\sqrt{574}e^{34}, \frac{5}{203}\sqrt{21}e^{13} + \frac{1}{203}\sqrt{70}e^{24},$ $\frac{1}{203}\sqrt{777}e^{15}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $+\frac{1}{203}\sqrt{665}e^5 \otimes e_8 + \frac{1}{203}\sqrt{987}e^3 \otimes e_9 + \frac{2}{29}\sqrt{5}e^1 \otimes e_7$	{1345, 189, 3678, 45679}
94:16	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{14}e^{12}, \frac{1}{203}\sqrt{574}e^{34}, \frac{5}{203}\sqrt{21}e^{13} + \frac{1}{203}\sqrt{70}e^{24},$ $\frac{1}{203}\sqrt{777}e^{15}$	$(-\frac{1}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{2}{29}, -\frac{2}{29}, 0, 0)$ $-\frac{1}{203}\sqrt{665}e^5 \otimes e_8 + \frac{1}{203}\sqrt{987}e^3 \otimes e_9 + \frac{2}{29}\sqrt{5}e^1 \otimes e_7$	{1345, 189, 3678, 45679}
94:16	$0, 0, 0, 0, 0, \frac{2}{3821}\sqrt{2786}e^{12}, \frac{2}{3821}\sqrt{9618}e^{34},$ $\frac{14}{3821}\sqrt{155}e^{13} + \frac{56}{3821}\sqrt{7}e^{24}, \frac{4}{3821}\sqrt{3094}e^{15}$	$(-\frac{12}{3821}, -\frac{113}{3821}, -\frac{16}{3821}, \frac{85}{3821}, \frac{83}{3821}, -\frac{125}{3821}, \frac{69}{3821}, -\frac{28}{3821}, \frac{71}{3821})$ $+\frac{2}{3821}\sqrt{11046}e^5 \otimes e_7 + \frac{2}{3821}\sqrt{13790}e^4 \otimes e_9$	{1236789, 13458, 2589, 4678}
94:16	$0, 0, 0, 0, 0, \frac{6}{965}\sqrt{3094}e^{12}, \frac{8}{965}\sqrt{357}e^{34}, \frac{2}{965}\sqrt{27251}e^{13} + \frac{4}{965}\sqrt{5117}e^{24},$ $\frac{16}{965}\sqrt{595}e^{15}$	$(-\frac{238}{965}, \frac{163}{965}, \frac{268}{965}, -\frac{133}{965}, \frac{163}{965}, -\frac{15}{965}, \frac{27}{965}, \frac{6}{965}, -\frac{15}{965})$ $+\frac{12}{965}\sqrt{1309}e^5 \otimes e_6 + \frac{2}{965}\sqrt{57358}e^2 \otimes e_9$	{123578, 12457, 134689, 169, 2346, 268, 3579, 45789}
94:16	$0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{2}{11}\sqrt{2}e^{34}, \frac{2}{11}\sqrt{3}e^{13} + \frac{2}{11}\sqrt{3}e^{24},$ $\frac{2}{11}\sqrt{2}e^{15}$	$(-\frac{1}{11}, 0, \frac{2}{11}, \frac{1}{11}, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11}, \frac{1}{11}, -\frac{2}{11})$ $+\frac{2}{11}\sqrt{5}e^2 \otimes e_9 + \frac{2}{11}\sqrt{5}e^4 \otimes e_6$	{12457, 169, 268, 45789}
94:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{2}{35}\sqrt{14}e^{34}, \frac{2}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{21}e^{24},$ $\frac{3}{35}\sqrt{14}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $-\frac{1}{35}\sqrt{182}e^5 \otimes e_8 + \frac{1}{5}\sqrt{2}e^2 \otimes e_7 + \frac{2}{35}\sqrt{42}e^3 \otimes e_9$	{123456, 12689, 1357, 14789}
94:16	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{2}{35}\sqrt{14}e^{34}, \frac{2}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{21}e^{24},$ $\frac{3}{35}\sqrt{14}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{182}e^5 \otimes e_8 + \frac{1}{5}\sqrt{2}e^2 \otimes e_7 + \frac{2}{35}\sqrt{42}e^3 \otimes e_9$	{123456, 12689, 1357, 14789}
94:16	$0, 0, 0, 0, 0, \frac{9}{1309}\sqrt{438}e^{12}, \frac{36}{1309}\sqrt{165}e^{34}, \frac{27}{187}\sqrt{2}e^{13} + \frac{36}{1309}\sqrt{51}e^{24},$ $\frac{9}{1309}\sqrt{2766}e^{15}$	$(\frac{282}{1309}, -\frac{75}{1309}, -\frac{159}{1309}, \frac{18}{119}, -\frac{327}{1309}, \frac{207}{1309}, \frac{39}{1309}, \frac{123}{1309}, -\frac{45}{1309})$ $+\frac{144}{1309}\sqrt{15}e^4 \otimes e_9 + \frac{9}{1309}\sqrt{3210}e^1 \otimes e_7$	{134568, 169, 3579, 478}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{30}e^{45},$ $\frac{4}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{5}e^{35}$	$(\frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{66}e^1 \otimes e_9 - \frac{8}{49}\sqrt{14}e^4 \otimes e_6 - \frac{4}{49}\sqrt{14}e^5 \otimes e_7$	{12345, 12478, 167, 23679, 25689, 459}
94:17	$0, 0, 0, 0, 0, \frac{748}{2821}e^{12}, \frac{34}{2821}\sqrt{107}e^{13}, \frac{17}{2821}\sqrt{1706}e^{45},$ $\frac{17}{2821}\sqrt{1626}e^{24} + \frac{136}{2821}\sqrt{30}e^{35}$	$(-\frac{17}{91}, \frac{187}{2821}, \frac{425}{2821}, \frac{187}{2821}, -\frac{51}{2821}, -\frac{340}{2821}, -\frac{102}{2821}, \frac{136}{2821}, \frac{374}{2821})$ $+\frac{17}{2821}\sqrt{230}e^2 \otimes e_7 + \frac{17}{2821}\sqrt{3070}e^5 \otimes e_6 + \frac{68}{2821}\sqrt{118}e^3 \otimes e_8$	{13679, 5789}
94:17	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{23}e^{12}, \frac{12}{49}e^{13}, \frac{12}{49}e^{45}, \frac{8}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{6}e^{35}$	$(\frac{12}{49}, \frac{16}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+\frac{12}{49}\sqrt{5}e^1 \otimes e_9 - \frac{4}{49}\sqrt{42}e^4 \otimes e_6$	{12345, 12478, 13568, 167, 23679, 25689, 34789, 459}
94:17	$0, 0, 0, 0, 0, \frac{24}{635}\sqrt{223}e^{12}, \frac{6}{635}\sqrt{1115}e^{13}, \frac{7}{635}\sqrt{1338}e^{45},$ $\frac{1}{635}\sqrt{61994}e^{24} + \frac{8}{635}\sqrt{1338}e^{35}$	$(-\frac{129}{635}, \frac{61}{635}, -\frac{33}{635}, \frac{61}{635}, \frac{31}{127}, -\frac{68}{635}, -\frac{162}{635}, \frac{216}{635}, \frac{122}{635})$ $+\frac{1}{127}\sqrt{7582}e^5 \otimes e_6 + \frac{1}{635}\sqrt{62886}e^2 \otimes e_7$	{12459, 13679, 234689, 5789}
94:17	$0, 0, 0, 0, 0, \frac{18}{455}\sqrt{5}e^{12}, \frac{18}{455}\sqrt{5}e^{13}, \frac{3}{35}\sqrt{2}e^{45},$ $\frac{6}{455}\sqrt{13}e^{24} + \frac{6}{455}\sqrt{13}e^{35}$	$(\frac{33}{455}, -\frac{6}{91}, -\frac{6}{91}, \frac{12}{455}, \frac{12}{455}, \frac{3}{455}, \frac{3}{455}, \frac{24}{455}, -\frac{18}{455})$ $+\frac{33}{455}\sqrt{2}e^4 \otimes e_6 + \frac{33}{455}\sqrt{2}e^5 \otimes e_7 + \frac{3}{455}\sqrt{358}e^1 \otimes e_8$	{123459, 1679, 2568}
94:17	$0, 0, 0, 0, 0, \frac{18}{455}\sqrt{5}e^{12}, \frac{18}{455}\sqrt{5}e^{13}, \frac{3}{35}\sqrt{2}e^{45},$ $\frac{6}{455}\sqrt{13}e^{24} + \frac{6}{455}\sqrt{13}e^{35}$	$(\frac{33}{455}, -\frac{6}{91}, -\frac{6}{91}, \frac{12}{455}, \frac{12}{455}, \frac{3}{455}, \frac{3}{455}, \frac{24}{455}, -\frac{18}{455})$ $+\frac{33}{455}\sqrt{2}e^4 \otimes e_6 - \frac{33}{455}\sqrt{2}e^5 \otimes e_7 + \frac{3}{455}\sqrt{358}e^1 \otimes e_8$	{123459, 1679, 2568}
94:17	$0, 0, 0, 0, 0, \frac{1}{1145}\sqrt{196142}e^{12}, \frac{2}{1145}\sqrt{203910}e^{13}, \frac{2}{1145}\sqrt{2913}e^{45},$ $\frac{2}{1145}\sqrt{204881}e^{24} + \frac{12}{1145}\sqrt{2913}e^{35}$	$(-\frac{333}{1145}, \frac{622}{1145}, -\frac{16}{1145}, -\frac{228}{1145}, \frac{82}{229}, \frac{289}{1145}, -\frac{349}{1145}, \frac{182}{1145}, \frac{394}{1145})$ $+\frac{1}{1145}\sqrt{1858494}e^2 \otimes e_7$	{1234, 12359, 14679, 1567, 24568, 2689, 345789, 378}
94:17	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{222}e^{12}, \frac{4}{181}\sqrt{222}e^{13}, \frac{2}{181}\sqrt{2109}e^{45},$ $\frac{2}{181}\sqrt{185}e^{24} + \frac{2}{181}\sqrt{185}e^{35}$	$(-\frac{27}{181}, -\frac{8}{181}, -\frac{8}{181}, \frac{39}{181}, \frac{39}{181}, -\frac{35}{181}, -\frac{35}{181}, \frac{78}{181}, \frac{31}{181})$ $+\frac{8}{181}\sqrt{185}e^4 \otimes e_6 + \frac{8}{181}\sqrt{185}e^5 \otimes e_7$	{12345, 12478, 167, 23679, 25689, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:17	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{222e^{12}}, \frac{4}{181}\sqrt{222e^{13}}, \frac{2}{181}\sqrt{2109e^{45}},$ $\frac{2}{181}\sqrt{185e^{24}} + \frac{2}{181}\sqrt{185e^{35}}$	$(-\frac{27}{181}, -\frac{8}{181}, -\frac{8}{181}, \frac{39}{181}, \frac{39}{181}, -\frac{35}{181}, -\frac{35}{181}, \frac{78}{181}, \frac{31}{181})$ $+\frac{8}{181}\sqrt{185e^4} \otimes e_6 - \frac{8}{181}\sqrt{185e^5} \otimes e_7$	{12345, 12478, 167, 23679, 25689, 459}
94:17	$0, 0, 0, 0, 0, \frac{12}{343}\sqrt{46e^{12}}, \frac{4}{343}\sqrt{78e^{13}}, \frac{4}{343}\sqrt{78e^{45}},$ $\frac{8}{343}\sqrt{13e^{24}} + \frac{8}{343}\sqrt{69e^{35}}$	$(\frac{24}{343}, -\frac{4}{343}, -\frac{60}{343}, -\frac{4}{343}, \frac{52}{343}, \frac{20}{343}, -\frac{36}{343}, \frac{48}{343}, -\frac{8}{343})$ $+\frac{16}{343}\sqrt{21e^2} \otimes e_7 + \frac{32}{343}\sqrt{7e^5} \otimes e_6 + \frac{4}{343}\sqrt{474e^1} \otimes e_9$	{12345, 167}
94:17	$0, 0, 0, 0, 0, \frac{5}{437}\sqrt{730e^{12}}, \frac{1}{437}\sqrt{9417e^{13}}, \frac{1}{437}\sqrt{24455e^{45}},$ $\frac{1}{437}\sqrt{365e^{24}} + \frac{3}{437}\sqrt{1022e^{35}}$	$(\frac{66}{437}, -\frac{82}{437}, \frac{39}{437}, \frac{3}{23}, -\frac{64}{437}, -\frac{16}{437}, \frac{105}{437}, -\frac{7}{437}, -\frac{25}{437})$ $+\frac{11}{437}\sqrt{219e^4} \otimes e_6 + \frac{1}{437}\sqrt{31390e^1} \otimes e_8$	{123459, 1679, 2568, 3478}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{30e^{45}},$ $\frac{4}{49}\sqrt{5e^{24}} + \frac{4}{49}\sqrt{5e^{35}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{66e^1} \otimes e_9 + \frac{4}{49}\sqrt{14e^2} \otimes e_8 + \frac{4}{49}\sqrt{14e^5} \otimes e_7$	{12345, 13568, 23679, 34789}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{2}{49}\sqrt{30e^{45}},$ $\frac{4}{49}\sqrt{5e^{24}} + \frac{4}{49}\sqrt{5e^{35}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{66e^1} \otimes e_9 + \frac{4}{49}\sqrt{14e^2} \otimes e_8 - \frac{4}{49}\sqrt{14e^5} \otimes e_7$	{12345, 13568, 23679, 34789}
94:17	$0, 0, 0, 0, 0, \frac{1}{383}\sqrt{57770e^{12}}, \frac{1}{383}\sqrt{57770e^{13}}, \frac{1}{383}\sqrt{86390e^{45}},$ $\frac{53}{383}\sqrt{10e^{24}} + \frac{53}{383}\sqrt{10e^{35}}$	$(\frac{165}{383}, \frac{4}{383}, \frac{4}{383}, -\frac{50}{383}, -\frac{50}{383}, \frac{169}{383}, \frac{169}{383}, -\frac{100}{383}, -\frac{46}{383})$ $+\frac{1}{383}\sqrt{171190e^1} \otimes e_8$	{123, 123459, 14567, 1679, 24689, 2568}
94:17	$0, 0, 0, 0, 0, \frac{2}{2721}\sqrt{51801e^{12}}, \frac{16}{2721}\sqrt{7798e^{13}}, \frac{4}{2721}\sqrt{54029e^{45}},$ $\frac{2}{2721}\sqrt{209989e^{24}} + \frac{4}{2721}\sqrt{8355e^{35}}$	$(-\frac{677}{2721}, \frac{1082}{2721}, \frac{215}{907}, -\frac{151}{907}, -\frac{16}{2721}, \frac{135}{907}, -\frac{32}{2721}, -\frac{469}{2721}, \frac{629}{2721})$ $+\frac{2}{2721}\sqrt{651133e^3} \otimes e_8 + \frac{4}{2721}\sqrt{172670e^2} \otimes e_7$	{146789, 15678, 34579, 37}
94:17	$0, 0, 0, 0, 0, \frac{4}{931}\sqrt{2510e^{12}}, \frac{12}{931}\sqrt{590e^{13}}, \frac{4}{931}\sqrt{1410e^{45}},$ $\frac{136}{931}\sqrt{5e^{24}} + \frac{24}{931}\sqrt{5e^{35}}$	$(\frac{120}{931}, \frac{92}{931}, -\frac{188}{931}, -\frac{132}{931}, \frac{148}{931}, \frac{212}{931}, -\frac{68}{931}, \frac{16}{931}, -\frac{40}{931})$ $+\frac{4}{931}\sqrt{8490e^1} \otimes e_9 + \frac{80}{931}\sqrt{21e^2} \otimes e_7$	{123458, 1678, 2569, 3479}
94:17	$0, 0, 0, 0, 0, \frac{5}{141}\sqrt{78e^{12}}, \frac{26}{141}\sqrt{3e^{13}}, \frac{141}{141}\sqrt{390e^{45}},$ $\frac{4}{141}\sqrt{195e^{24}} + \frac{4}{47}\sqrt{13e^{35}}$	$(-\frac{37}{141}, \frac{14}{141}, \frac{4}{47}, \frac{16}{47}, \frac{6}{47}, -\frac{23}{141}, -\frac{25}{141}, \frac{34}{141}, \frac{10}{47})$ $+\frac{13}{141}\sqrt{30e^2} \otimes e_7 + \frac{2}{141}\sqrt{1209e^4} \otimes e_6$	{12348, 15678, 269, 34579}
94:17	$0, 0, 0, 0, 0, \frac{5}{357}\sqrt{815e^{12}}, \frac{5}{357}\sqrt{815e^{13}}, \frac{20}{357}\sqrt{5e^{45}},$ $\frac{5}{357}\sqrt{310e^{24}} + \frac{5}{357}\sqrt{310e^{35}}$	$(-\frac{125}{357}, \frac{5}{21}, \frac{5}{21}, \frac{5}{119}, \frac{5}{119}, -\frac{40}{357}, -\frac{40}{357}, \frac{10}{119}, \frac{100}{357})$ $+\frac{5}{357}\sqrt{1595e^2} \otimes e_7 - \frac{5}{357}\sqrt{1595e^3} \otimes e_6$	{123458, 12389, 1456789, 1678, 246, 2569}
94:17	$0, 0, 0, 0, 0, \frac{3}{455}\sqrt{62e^{12}}, \frac{3}{455}\sqrt{422e^{13}}, \frac{3}{35}\sqrt{2e^{45}},$ $\frac{3}{455}\sqrt{190e^{24}} + \frac{3}{65}\sqrt{6e^{35}}$	$(\frac{33}{455}, -\frac{6}{91}, -\frac{6}{91}, \frac{12}{455}, \frac{12}{455}, \frac{3}{455}, \frac{3}{455}, \frac{24}{455}, -\frac{18}{455})$ $+\frac{3}{455}\sqrt{358e^1} \otimes e_8 + \frac{66}{455}e^4 \otimes e_7$	{12679, 13459, 235789, 4689}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{26e^{12}}, \frac{2}{49}\sqrt{86e^{13}}, \frac{2}{49}\sqrt{30e^{45}},$ $\frac{4}{49}\sqrt{19e^{24}} + \frac{12}{49}e^{35}$	$(\frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{66e^1} \otimes e_9 + \frac{8}{49}\sqrt{7e^4} \otimes e_7$	{123468, 1578, 235789, 4689}
94:17	$0, 0, 0, 0, 0, \frac{4}{1049}\sqrt{5402e^{12}}, \frac{4}{1049}\sqrt{438e^{13}}, \frac{6}{1049}\sqrt{2701e^{45}},$ $\frac{2}{1049}\sqrt{13505e^{24}} + \frac{6}{1049}\sqrt{1095e^{35}}$	$(-\frac{183}{1049}, \frac{88}{1049}, \frac{248}{1049}, \frac{51}{1049}, -\frac{109}{1049}, -\frac{95}{1049}, \frac{65}{1049}, -\frac{58}{1049}, \frac{139}{1049})$ $+\frac{8}{1049}\sqrt{2190e^2} \otimes e_8 + \frac{8}{1049}\sqrt{2190e^4} \otimes e_6$	{1245, 1568, 2679, 4789}
94:17	$0, 0, 0, 0, 0, \frac{6}{749}\sqrt{158e^{12}}, \frac{6}{749}\sqrt{5e^{13}}, \frac{3}{749}\sqrt{506e^{45}},$ $\frac{9}{749}\sqrt{42e^{24}} + \frac{6}{749}\sqrt{58e^{35}}$	$(\frac{33}{749}, -\frac{9}{749}, -\frac{51}{749}, -\frac{9}{749}, \frac{33}{749}, \frac{24}{749}, -\frac{18}{749}, \frac{24}{749}, -\frac{18}{749})$ $+\frac{3}{749}\sqrt{694e^5} \otimes e_6 + \frac{6}{749}\sqrt{142e^1} \otimes e_8 + \frac{9}{749}\sqrt{14e^2} \otimes e_7$	{12459, 13679, 234689, 5789}
94:17	$0, 0, 0, 0, 0, \frac{6}{749}\sqrt{158e^{12}}, \frac{6}{749}\sqrt{5e^{13}}, \frac{3}{749}\sqrt{506e^{45}},$ $\frac{9}{749}\sqrt{42e^{24}} + \frac{6}{749}\sqrt{58e^{35}}$	$(\frac{33}{749}, -\frac{9}{749}, -\frac{51}{749}, -\frac{9}{749}, \frac{33}{749}, \frac{24}{749}, -\frac{18}{749}, \frac{24}{749}, -\frac{18}{749})$ $+\frac{3}{749}\sqrt{694e^5} \otimes e_6 + \frac{6}{749}\sqrt{142e^1} \otimes e_8 - \frac{9}{749}\sqrt{14e^2} \otimes e_7$	{12459, 13679, 234689, 5789}
94:17	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22e^{12}}, \frac{2}{245}\sqrt{170e^{13}}, \frac{2}{245}\sqrt{30e^{45}},$ $\frac{12}{245}e^{24} + \frac{8}{245}\sqrt{17e^{35}}$	$(\frac{6}{245}, -\frac{22}{245}, -\frac{8}{245}, \frac{4}{49}, \frac{6}{245}, -\frac{16}{245}, -\frac{2}{245}, \frac{26}{245}, -\frac{2}{245})$ $+\frac{12}{245}\sqrt{7e^5} \otimes e_7 + \frac{2}{245}\sqrt{318e^1} \otimes e_9 + \frac{8}{245}\sqrt{21e^3} \otimes e_6$	{12358, 14678, 24569, 379}
94:17	$0, 0, 0, 0, 0, \frac{6}{245}\sqrt{22e^{12}}, \frac{2}{245}\sqrt{170e^{13}}, \frac{2}{245}\sqrt{30e^{45}},$ $\frac{12}{245}e^{24} + \frac{8}{245}\sqrt{17e^{35}}$	$(\frac{6}{245}, -\frac{22}{245}, -\frac{8}{245}, \frac{4}{49}, \frac{6}{245}, -\frac{16}{245}, -\frac{2}{245}, \frac{26}{245}, -\frac{2}{245})$ $-\frac{12}{245}\sqrt{7e^5} \otimes e_7 + \frac{2}{245}\sqrt{318e^1} \otimes e_9 + \frac{8}{245}\sqrt{21e^3} \otimes e_6$	{12358, 14678, 24569, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:17	$0, 0, 0, 0, 0, \frac{2}{245}\sqrt{30}e^{12}, \frac{2}{245}\sqrt{254}e^{13}, \frac{6}{245}\sqrt{22}e^{45},$ $\frac{12}{245}e^{24} + \frac{4}{245}\sqrt{47}e^{35}$	$(\frac{6}{245}, \frac{4}{49}, -\frac{8}{245}, -\frac{22}{245}, \frac{6}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{16}{245}, -\frac{2}{245})$ $+ \frac{6}{245}\sqrt{26}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^3 \otimes e_8 + \frac{8}{245}\sqrt{21}e^5 \otimes e_7$	{13456, 14678, 379, 589}
94:17	$0, 0, 0, 0, 0, \frac{2}{245}\sqrt{30}e^{12}, \frac{2}{245}\sqrt{254}e^{13}, \frac{6}{245}\sqrt{22}e^{45},$ $\frac{12}{245}e^{24} + \frac{4}{245}\sqrt{47}e^{35}$	$(\frac{6}{245}, \frac{4}{49}, -\frac{8}{245}, -\frac{22}{245}, \frac{6}{245}, \frac{26}{245}, -\frac{2}{245}, -\frac{16}{245}, -\frac{2}{245})$ $+ \frac{6}{245}\sqrt{26}e^1 \otimes e_9 + \frac{8}{245}\sqrt{21}e^3 \otimes e_8 - \frac{8}{245}\sqrt{21}e^5 \otimes e_7$	{13456, 14678, 379, 589}
94:17	$0, 0, 0, 0, 0, \frac{8}{749}\sqrt{626}e^{12}, \frac{16}{749}\sqrt{93}e^{13}, \frac{8}{749}\sqrt{566}e^{45},$ $\frac{32}{749}\sqrt{15}e^{24} + \frac{24}{749}\sqrt{58}e^{35}$	$(-\frac{184}{749}, \frac{152}{749}, \frac{96}{749}, -\frac{16}{749}, \frac{40}{749}, -\frac{32}{749}, -\frac{88}{749}, \frac{24}{749}, \frac{136}{749})$ $+ \frac{16}{749}\sqrt{183}e^2 \otimes e_8 + \frac{16}{749}\sqrt{254}e^3 \otimes e_6 + \frac{8}{749}\sqrt{986}e^5 \otimes e_7$	{14678, 24569}
94:17	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{23}e^{12}, \frac{12}{49}e^{13}, \frac{12}{49}e^{45}, \frac{8}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{6}e^{35}$	$(\frac{12}{49}, \frac{5}{49}, -\frac{2}{49}, -\frac{9}{49}, -\frac{2}{49}, \frac{17}{49}, \frac{10}{49}, -\frac{11}{49}, -\frac{4}{49})$ $+ \frac{12}{49}\sqrt{5}e^1 \otimes e_9 + \frac{4}{49}\sqrt{42}e^2 \otimes e_8$	{12345, 13568, 23679, 34789}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{30}e^{45},$ $\frac{4}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{5}e^{35}$	$(\frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{66}e^1 \otimes e_9 + \frac{4}{49}\sqrt{14}e^4 \otimes e_6 - \frac{4}{49}\sqrt{14}e^5 \otimes e_7$	{12345, 12478, 13568, 167, 23679, 25689, 34789, 459}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{30}e^{45},$ $\frac{4}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{5}e^{35}$	$(\frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{66}e^1 \otimes e_9 + \frac{4}{49}\sqrt{14}e^4 \otimes e_6 + \frac{4}{49}\sqrt{14}e^5 \otimes e_7$	{12345, 12478, 167, 23679, 25689, 459}
94:17	$0, 0, 0, 0, 0, \frac{2}{637}\sqrt{814}e^{12}, \frac{2}{637}\sqrt{82}e^{13}, \frac{2}{637}\sqrt{534}e^{45},$ $\frac{44}{637}e^{24} + \frac{4}{637}\sqrt{215}e^{35}$	$(\frac{6}{637}, -\frac{36}{637}, \frac{20}{637}, \frac{34}{637}, -\frac{22}{637}, -\frac{30}{637}, \frac{2}{49}, \frac{12}{637}, -\frac{2}{637})$ $+ \frac{2}{637}\sqrt{570}e^1 \otimes e_9 + \frac{8}{637}\sqrt{42}e^3 \otimes e_8 + \frac{8}{637}\sqrt{70}e^5 \otimes e_6$	{1468, 5789}
94:17	$0, 0, 0, 0, 0, \frac{4}{557}\sqrt{406}e^{12}, \frac{20}{557}\sqrt{58}e^{13}, \frac{2}{557}\sqrt{5133}e^{45},$ $\frac{2}{557}\sqrt{5945}e^{24} + \frac{2}{557}\sqrt{5191}e^{35}$	$(-\frac{99}{557}, \frac{88}{557}, \frac{24}{557}, -\frac{17}{557}, \frac{47}{557}, -\frac{11}{557}, -\frac{75}{557}, \frac{30}{557}, \frac{71}{557})$ $+ \frac{16}{557}\sqrt{145}e^4 \otimes e_7 + \frac{16}{557}\sqrt{87}e^2 \otimes e_8$	{12679, 1578, 245, 4689}
94:17	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{23}e^{12}, \frac{12}{49}e^{13}, \frac{12}{49}e^{45}, \frac{8}{49}\sqrt{5}e^{24} + \frac{4}{49}\sqrt{6}e^{35}$	$(\frac{12}{49}, \frac{16}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+ \frac{12}{49}\sqrt{5}e^1 \otimes e_9 + \frac{4}{49}\sqrt{42}e^4 \otimes e_6$	{12345, 12478, 13568, 167, 23679, 25689, 34789, 459}
94:17	$0, 0, 0, 0, 0, \frac{4}{557}\sqrt{1914}e^{12}, \frac{4}{557}\sqrt{870}e^{13}, \frac{2}{557}\sqrt{5133}e^{45},$ $\frac{2}{557}\sqrt{3335}e^{24} + \frac{2}{557}\sqrt{4089}e^{35}$	$(-\frac{99}{557}, \frac{88}{557}, \frac{24}{557}, -\frac{17}{557}, \frac{47}{557}, -\frac{11}{557}, -\frac{75}{557}, \frac{30}{557}, \frac{71}{557})$ $+ \frac{16}{557}\sqrt{145}e^5 \otimes e_6 + \frac{16}{557}\sqrt{87}e^2 \otimes e_8$	{12459, 1468, 267, 5789}
94:17	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{518}e^{12}, \frac{4}{181}\sqrt{962}e^{13}, \frac{2}{181}\sqrt{2109}e^{45},$ $\frac{10}{181}\sqrt{3145}e^{24} + \frac{10}{181}\sqrt{111}e^{35}$	$(-\frac{27}{181}, -\frac{8}{181}, -\frac{8}{181}, \frac{39}{181}, \frac{39}{181}, -\frac{35}{181}, -\frac{35}{181}, \frac{78}{181}, \frac{31}{181})$ $+ \frac{8}{181}\sqrt{370}e^4 \otimes e_7$	{123468, 12679, 13459, 1578, 235789, 245, 367, 4689}
94:17	$0, 0, 0, 0, 0, \frac{4}{181}\sqrt{222}e^{12}, \frac{4}{181}\sqrt{222}e^{13}, \frac{2}{181}\sqrt{2109}e^{45},$ $\frac{3}{181}\sqrt{185}e^{24} + \frac{2}{181}\sqrt{185}e^{35}$	$(-\frac{27}{181}, \frac{72}{181}, -\frac{8}{181}, -\frac{41}{181}, \frac{39}{181}, \frac{45}{181}, -\frac{35}{181}, -\frac{181}{181}, \frac{31}{181})$ $+ \frac{8}{181}\sqrt{185}e^2 \otimes e_8 + \frac{8}{181}\sqrt{185}e^5 \otimes e_7$	{12345, 13568, 23679, 34789}
94:17	$0, 0, 0, 0, 0, \frac{2}{637}\sqrt{1038}e^{12}, \frac{6}{637}\sqrt{34}e^{13}, \frac{2}{637}\sqrt{534}e^{45},$ $\frac{4}{637}\sqrt{65}e^{24} + \frac{4}{637}\sqrt{159}e^{35}$	$(\frac{6}{637}, \frac{20}{637}, -\frac{36}{637}, -\frac{22}{637}, \frac{34}{637}, \frac{2}{49}, -\frac{30}{637}, \frac{12}{637}, -\frac{2}{637})$ $+ \frac{2}{637}\sqrt{570}e^1 \otimes e_9 + \frac{8}{637}\sqrt{42}e^2 \otimes e_8 + \frac{8}{637}\sqrt{70}e^5 \otimes e_6$	{1468, 5789}
94:17	$0, 0, 0, 0, 0, \frac{5}{357}\sqrt{815}e^{12}, \frac{5}{357}\sqrt{815}e^{13}, \frac{20}{357}\sqrt{5}e^{45},$ $\frac{3}{357}\sqrt{310}e^{24} + \frac{5}{357}\sqrt{310}e^{35}$	$(-\frac{125}{357}, \frac{5}{21}, \frac{5}{21}, \frac{5}{119}, \frac{5}{119}, -\frac{40}{357}, -\frac{40}{357}, \frac{10}{119}, \frac{100}{357})$ $+ \frac{5}{357}\sqrt{1595}e^2 \otimes e_7 + \frac{5}{357}\sqrt{1595}e^3 \otimes e_6$	{123458, 12389, 1456789, 1678, 246, 2569}
94:17	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190}e^{12}, \frac{2}{49}\sqrt{190}e^{13}, \frac{6}{49}\sqrt{10}e^{45},$ $\frac{4}{49}\sqrt{55}e^{24} + \frac{4}{49}\sqrt{55}e^{35}$	$(\frac{30}{49}, -\frac{12}{49}, -\frac{12}{49}, \frac{2}{49}, \frac{2}{49}, \frac{18}{49}, \frac{18}{49}, \frac{4}{49}, -\frac{10}{49})$ $+ \frac{18}{49}\sqrt{10}e^1 \otimes e_9$	{123458, 1247, 1678, 236789, 2569, 4589}
94:18	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{826}e^{12}, \frac{1}{126}\sqrt{1162}e^{13}, \frac{1}{63}\sqrt{203}e^{14} + \frac{2}{63}\sqrt{35}e^{23},$ $\frac{1}{63}\sqrt{133}e^{15} + \frac{2}{63}\sqrt{42}e^{24}$	$(-\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{2}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9})$ $+ \frac{1}{126}\sqrt{1806}e^2 \otimes e_7 + \frac{1}{18}\sqrt{30}e^3 \otimes e_6$	{12359, 167, 2689, 3578}
94:18	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{39}e^{12}, \frac{6}{161}\sqrt{69}e^{13}, \frac{6}{161}\sqrt{111}e^{14} + \frac{18}{161}\sqrt{13}e^{23},$ $\frac{6}{161}\sqrt{165}e^{15} + \frac{6}{161}\sqrt{69}e^{24}$	$(-\frac{12}{161}, -\frac{33}{161}, \frac{51}{161}, \frac{30}{161}, \frac{9}{161}, -\frac{45}{161}, \frac{39}{161}, \frac{18}{161}, -\frac{3}{161})$ $+ \frac{6}{161}\sqrt{291}e^3 \otimes e_9 + \frac{72}{161}e^5 \otimes e_6$	{2589, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:18	$0, 0, 0, 0, 0, \frac{22}{1127}\sqrt{78}e^{12}, \frac{33}{1127}\sqrt{138}e^{13},$ $\frac{22}{1127}\sqrt{231}e^{14} + \frac{22}{1127}\sqrt{771}e^{23}, \frac{33}{1127}\sqrt{274}e^{15} + \frac{22}{1127}\sqrt{465}e^{24}$	$(-\frac{209}{1127}, -\frac{55}{1127}, \frac{99}{1127}, \frac{11}{49}, \frac{407}{1127}, -\frac{264}{1127}, -\frac{110}{1127}, \frac{44}{1127}, \frac{198}{1127})$ $+ \frac{11}{1127}\sqrt{4326}e^5 \otimes e_8 + \frac{33}{1127}\sqrt{206}e^3 \otimes e_6$	{13789, 5679}
94:18	$0, 0, 0, 0, 0, \frac{1}{147}\sqrt{2590}e^{12}, \frac{1}{147}\sqrt{3710}e^{13}, \frac{1}{147}\sqrt{70}e^{14} + \frac{1}{147}\sqrt{910}e^{23},$ $\frac{1}{147}\sqrt{2590}e^{15} + \frac{8}{147}\sqrt{35}e^{24}$	$(\frac{1}{7}, \frac{4}{21}, -\frac{4}{21}, -\frac{1}{7}, -\frac{2}{21}, \frac{1}{3}, -\frac{1}{21}, 0, \frac{1}{21})$ $+ \frac{1}{7}\sqrt{10}e^1 \otimes e_5 + \frac{4}{49}\sqrt{35}e^2 \otimes e_7$	{1678, 357}
94:18	$0, 0, 0, 0, 0, \frac{43}{5769}\sqrt{3406}e^{12}, \frac{43}{5769}\sqrt{3278}e^{13},$ $\frac{43}{5769}\sqrt{934}e^{14} + \frac{43}{5769}\sqrt{494}e^{23}, \frac{43}{1923}\sqrt{238}e^{15} + \frac{688}{5769}e^{24}$	$(\frac{559}{5769}, -\frac{860}{5769}, \frac{172}{641}, \frac{43}{1923}, -\frac{430}{1923}, -\frac{301}{5769}, \frac{2107}{5769}, \frac{688}{5769}, -\frac{731}{5769})$ $+ \frac{172}{5769}\sqrt{309}e^3 \otimes e_6 + \frac{43}{5769}\sqrt{5658}e^1 \otimes e_5$	{1238, 256}
94:18	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{3}{70}\sqrt{30}e^{13}, \frac{1}{35}\sqrt{51}e^{14} + \frac{1}{35}\sqrt{42}e^{23},$ $\frac{3}{70}\sqrt{30}e^{15} + \frac{1}{35}\sqrt{42}e^{24}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{70}\sqrt{474}e^3 \otimes e_9 - \frac{3}{70}\sqrt{34}e^5 \otimes e_7$	{2347, 2589, 3678, 4569}
94:18	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{3}{70}\sqrt{30}e^{13}, \frac{1}{35}\sqrt{51}e^{14} + \frac{1}{35}\sqrt{42}e^{23},$ $\frac{3}{70}\sqrt{30}e^{15} + \frac{1}{35}\sqrt{42}e^{24}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{70}\sqrt{474}e^3 \otimes e_9 + \frac{3}{70}\sqrt{34}e^5 \otimes e_7$	{2347, 2589, 3678, 4569}
94:18	$0, 0, 0, 0, 0, \frac{2}{735}\sqrt{66310}e^{12}, \frac{2}{735}\sqrt{60726}e^{13},$ $\frac{2}{735}\sqrt{41531}e^{14} + \frac{2}{735}\sqrt{60726}e^{23}, \frac{8}{735}\sqrt{698}e^{15} + \frac{8}{735}\sqrt{698}e^{24}$	$(-\frac{32}{245}, -\frac{43}{147}, \frac{129}{245}, \frac{268}{735}, \frac{149}{735}, -\frac{311}{735}, \frac{97}{245}, \frac{172}{735}, \frac{53}{735})$ $+ \frac{2}{735}\sqrt{215682}e^3 \otimes e_6$	{123, 15679, 2568, 3789}
94:18	$0, 0, 0, 0, 0, \frac{2}{183}\sqrt{2231}e^{12}, \frac{4}{183}\sqrt{1358}e^{13}, \frac{2}{183}\sqrt{2231}e^{14} + \frac{2}{183}\sqrt{485}e^{23},$ $\frac{4}{183}\sqrt{1358}e^{15} + \frac{2}{183}\sqrt{485}e^{24}$	$(-\frac{12}{61}, \frac{43}{183}, -\frac{31}{183}, \frac{16}{61}, \frac{127}{183}, \frac{7}{183}, -\frac{67}{183}, \frac{4}{61}, \frac{91}{183})$ $+ \frac{2}{61}\sqrt{1649}e^5 \otimes e_7$	{2347, 2589, 3678, 4569}
94:18	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{2091}e^{12}, \frac{2}{229}\sqrt{4182}e^{13}, \frac{2}{229}\sqrt{3162}e^{14} + \frac{4}{229}\sqrt{1581}e^{23},$ $\frac{4}{229}\sqrt{1581}e^{15} + \frac{2}{229}\sqrt{4182}e^{24}$	$(-\frac{40}{229}, \frac{22}{229}, -\frac{19}{229}, \frac{43}{229}, \frac{105}{229}, -\frac{18}{229}, -\frac{59}{229}, \frac{3}{229}, \frac{65}{229})$ $+ \frac{2}{229}\sqrt{10506}e^5 \otimes e_8$	{13789, 145, 3468, 5679}
94:18	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{7}e^{12}, \frac{4}{21}\sqrt{14}e^{13}, \frac{2}{21}\sqrt{35}e^{14} + \frac{2}{21}\sqrt{14}e^{23},$ $\frac{4}{21}\sqrt{7}e^{15} + \frac{4}{21}\sqrt{14}e^{24}$	$(0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3})$ $+ \frac{2}{7}\sqrt{14}e^2 \otimes e_7$	{12359, 167, 2689, 3578}
94:18	$0, 0, 0, 0, 0, \frac{1}{147}\sqrt{2590}e^{12}, \frac{8}{147}\sqrt{35}e^{13}, \frac{1}{147}\sqrt{70}e^{14} + \frac{1}{147}\sqrt{910}e^{23},$ $\frac{1}{147}\sqrt{2590}e^{15} + \frac{1}{147}\sqrt{3710}e^{24}$	$(-\frac{1}{7}, \frac{1}{21}, -\frac{1}{21}, \frac{1}{7}, \frac{1}{3}, -\frac{2}{21}, -\frac{4}{21}, 0, \frac{4}{21})$ $+ \frac{1}{7}\sqrt{10}e^4 \otimes e_6 + \frac{4}{49}\sqrt{35}e^2 \otimes e_7$	{1678, 269}
94:18	$0, 0, 0, 0, 0, \frac{1}{126}\sqrt{826}e^{12}, \frac{1}{126}\sqrt{1162}e^{13}, \frac{1}{63}\sqrt{203}e^{14} + \frac{2}{63}\sqrt{35}e^{23},$ $\frac{1}{63}\sqrt{133}e^{15} + \frac{2}{63}\sqrt{42}e^{24}$	$(-\frac{1}{9}, 0, 0, \frac{1}{9}, \frac{2}{9}, -\frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{9})$ $+ \frac{1}{126}\sqrt{1806}e^2 \otimes e_7 - \frac{1}{18}\sqrt{30}e^3 \otimes e_6$	{12359, 167, 2689, 3578}
94:18	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{30}e^{12}, \frac{4}{35}\sqrt{15}e^{13}, \frac{2}{35}\sqrt{30}e^{14} + \frac{1}{7}\sqrt{6}e^{23},$ $\frac{1}{7}\sqrt{6}e^{15} + \frac{1}{35}\sqrt{330}e^{24}$	$(-\frac{1}{35}, -\frac{8}{35}, \frac{13}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{9}{35}, \frac{12}{35}, \frac{1}{7}, -\frac{2}{35})$ $+ \frac{2}{35}\sqrt{165}e^3 \otimes e_9 + \frac{3}{35}\sqrt{30}e^4 \otimes e_6$	{2347, 3678}
94:18	$0, 0, 0, 0, 0, \frac{2}{61}\sqrt{255}e^{12}, \frac{2}{61}\sqrt{285}e^{13}, \frac{2}{61}\sqrt{255}e^{14} + \frac{2}{61}\sqrt{285}e^{23},$ $\frac{2}{61}\sqrt{285}e^{15} + \frac{2}{61}\sqrt{285}e^{24}$	$(\frac{4}{61}, -\frac{13}{61}, \frac{23}{61}, \frac{6}{61}, -\frac{11}{61}, -\frac{9}{61}, \frac{27}{61}, \frac{10}{61}, -\frac{7}{61})$ $+ \frac{2}{61}\sqrt{795}e^3 \otimes e_9$	{2347, 2589, 3678, 4569}
94:18	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{30}e^{12}, \frac{1}{35}\sqrt{330}e^{13}, \frac{2}{35}\sqrt{30}e^{14} + \frac{1}{7}\sqrt{6}e^{23},$ $\frac{1}{7}\sqrt{6}e^{15} + \frac{4}{35}\sqrt{15}e^{24}$	$(\frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, -\frac{2}{7}, 0, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{2}{35}\sqrt{165}e^3 \otimes e_9 + \frac{3}{35}\sqrt{30}e^1 \otimes e_5$	{2589, 4569}
94:18	$0, 0, 0, 0, 0, \frac{1}{177}\sqrt{15370}e^{12}, \frac{2}{177}\sqrt{290}e^{13},$ $\frac{1}{177}\sqrt{15370}e^{14} + \frac{1}{177}\sqrt{13630}e^{23}, \frac{1}{177}\sqrt{13630}e^{15} + \frac{5}{177}\sqrt{638}e^{24}$	$(-\frac{13}{59}, -\frac{37}{177}, \frac{67}{177}, \frac{23}{59}, \frac{71}{177}, -\frac{76}{177}, \frac{28}{177}, \frac{10}{59}, \frac{32}{177})$ $+ \frac{1}{59}\sqrt{4930}e^4 \otimes e_6$	{1247, 1678, 269, 489}
94:18	$0, 0, 0, 0, 0, \frac{26}{735}\sqrt{55}e^{12}, \frac{52}{735}\sqrt{51}e^{13}, \frac{26}{735}\sqrt{119}e^{14} + \frac{26}{245}\sqrt{11}e^{23},$ $\frac{52}{735}\sqrt{22}e^{15} + \frac{26}{735}\sqrt{17}e^{24}$	$(-\frac{52}{245}, -\frac{13}{147}, \frac{39}{245}, \frac{208}{735}, \frac{299}{735}, -\frac{221}{735}, -\frac{13}{245}, \frac{52}{735}, \frac{143}{735})$ $+ \frac{26}{245}\sqrt{35}e^5 \otimes e_7 + \frac{52}{735}\sqrt{87}e^3 \otimes e_6$	{1235, 1679}
94:18	$0, 0, 0, 0, 0, \frac{46}{861}\sqrt{55}e^{12}, \frac{46}{861}\sqrt{59}e^{13}, \frac{46}{861}\sqrt{55}e^{14} + \frac{23}{861}\sqrt{274}e^{23},$ $\frac{23}{861}\sqrt{70}e^{15} + \frac{299}{861}\sqrt{2}e^{24}$	$(-\frac{69}{287}, -\frac{46}{861}, \frac{115}{861}, \frac{92}{287}, \frac{437}{861}, -\frac{253}{861}, -\frac{92}{861}, \frac{23}{287}, \frac{230}{861})$ $+ \frac{23}{287}\sqrt{102}e^4 \otimes e_6 + \frac{46}{287}\sqrt{17}e^5 \otimes e_7$	{1247, 1678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:18	$0, 0, 0, 0, 0, \frac{12}{1855}\sqrt{15}e^{12}, \frac{9}{1855}\sqrt{574}e^{13},$ $\frac{6}{1855}\sqrt{831}e^{14} + \frac{3}{1855}\sqrt{3966}e^{23}, \frac{3}{1855}\sqrt{3966}e^{15} + \frac{6}{1855}\sqrt{921}e^{24}$	$(\frac{33}{1855}, \frac{93}{1855}, -\frac{114}{1855}, -\frac{54}{1855}, \frac{6}{1855}, \frac{18}{265}, -\frac{81}{1855}, -\frac{3}{265}, \frac{39}{1855})$ $+ \frac{6}{1855}\sqrt{1542}e^4 \otimes e_7 + \frac{18}{1855}\sqrt{494}e^1 \otimes e_5$	{1678, 357}
94:18	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{2}{49}\sqrt{357}e^{13}, \frac{1}{49}\sqrt{714}e^{14} + \frac{2}{49}\sqrt{231}e^{23},$ $\frac{5}{49}\sqrt{42}e^{15} + \frac{2}{49}\sqrt{357}e^{24}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, -\frac{2}{7}, 0, \frac{2}{7})$ $+ \frac{1}{49}\sqrt{2226}e^4 \otimes e_7 + \frac{3}{49}\sqrt{42}e^5 \otimes e_6$	{178, 3567}
94:18	$0, 0, 0, 0, 0, \frac{9}{595}\sqrt{246}e^{12}, \frac{18}{595}\sqrt{246}e^{13}, \frac{9}{595}\sqrt{1002}e^{14} + \frac{9}{595}\sqrt{1266}e^{23},$ $\frac{9}{595}\sqrt{1266}e^{15} + \frac{27}{595}\sqrt{82}e^{24}$	$(-\frac{117}{595}, \frac{9}{595}, \frac{9}{595}, \frac{27}{119}, \frac{261}{595}, -\frac{108}{595}, -\frac{108}{595}, \frac{18}{595}, \frac{144}{595})$ $+ \frac{27}{595}\sqrt{82}e^4 \otimes e_6 + \frac{72}{595}\sqrt{39}e^5 \otimes e_8$	{145, 5679}
94:18	$0, 0, 0, 0, 0, \frac{1}{177}\sqrt{15370}e^{12}, \frac{5}{177}\sqrt{638}e^{13},$ $\frac{1}{177}\sqrt{15370}e^{14} + \frac{1}{177}\sqrt{13630}e^{23}, \frac{1}{177}\sqrt{13630}e^{15} + \frac{2}{177}\sqrt{290}e^{24}$	$(\frac{21}{59}, \frac{14}{177}, \frac{16}{177}, -\frac{11}{59}, -\frac{82}{177}, \frac{77}{177}, \frac{79}{177}, \frac{10}{59}, -\frac{19}{177})$ $+ \frac{1}{59}\sqrt{4930}e^1 \otimes e_5$	{1247, 1678, 2345678, 357}
94:18	$0, 0, 0, 0, 0, \frac{22}{1127}\sqrt{78}e^{12}, \frac{22}{1127}\sqrt{771}e^{13},$ $\frac{22}{1127}\sqrt{231}e^{14} + \frac{33}{1127}\sqrt{138}e^{23}, \frac{22}{1127}\sqrt{465}e^{15} + \frac{33}{1127}\sqrt{274}e^{24}$	$(-\frac{209}{1127}, -\frac{55}{1127}, \frac{99}{1127}, \frac{11}{49}, \frac{407}{1127}, -\frac{264}{1127}, -\frac{110}{1127}, \frac{44}{1127}, \frac{198}{1127})$ $+ \frac{11}{1127}\sqrt{4326}e^4 \otimes e_7 + \frac{33}{1127}\sqrt{206}e^3 \otimes e_6$	{13459, 4689}
94:18	$0, 0, 0, 0, 0, \frac{1}{36}\sqrt{115}e^{12}, \frac{1}{18}\sqrt{15}e^{13}, \frac{1}{36}\sqrt{115}e^{14} + \frac{1}{36}\sqrt{110}e^{23},$ $\frac{1}{36}\sqrt{110}e^{15} + \frac{1}{18}\sqrt{15}e^{24}$	$(\frac{1}{36}, -\frac{1}{8}, \frac{7}{36}, \frac{1}{24}, -\frac{1}{9}, -\frac{7}{9}, \frac{2}{9}, \frac{5}{72}, -\frac{1}{12})$ $+ \frac{1}{36}\sqrt{170}e^1 \otimes e_5 + \frac{1}{36}\sqrt{170}e^4 \otimes e_6$	{1247, 1678}
94:18	$0, 0, 0, 0, 0, \frac{4}{711}\sqrt{20827}e^{12}, \frac{2}{711}\sqrt{47302}e^{13},$ $\frac{2}{711}\sqrt{23651}e^{14} + \frac{4}{711}\sqrt{6001}e^{23}, \frac{2}{237}\sqrt{10590}e^{15} + \frac{2}{711}\sqrt{47302}e^{24}$	$(-\frac{200}{711}, -\frac{65}{711}, \frac{19}{79}, \frac{34}{79}, \frac{49}{79}, -\frac{265}{711}, -\frac{29}{711}, \frac{106}{711}, \frac{241}{711})$ $+ \frac{2}{711}\sqrt{213918}e^5 \otimes e_6$	{12357, 169, 2678, 3589}
94:18	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{210}e^{12}, \frac{2}{49}\sqrt{105}e^{13}, \frac{4}{49}\sqrt{21}e^{14} + \frac{2}{49}\sqrt{231}e^{23},$ $\frac{1}{49}\sqrt{798}e^{15} + \frac{2}{49}\sqrt{105}e^{24}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, -\frac{2}{7}, 0, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{30}e^5 \otimes e_8 + \frac{3}{49}\sqrt{42}e^2 \otimes e_7$	{13789, 5679}
94:18	$0, 0, 0, 0, 0, \frac{2}{229}\sqrt{2091}e^{12}, \frac{4}{229}\sqrt{1581}e^{13}, \frac{2}{229}\sqrt{3162}e^{14} + \frac{2}{229}\sqrt{4182}e^{23},$ $\frac{2}{229}\sqrt{4182}e^{15} + \frac{4}{229}\sqrt{1581}e^{24}$	$(-\frac{40}{229}, \frac{22}{229}, -\frac{19}{229}, \frac{43}{229}, \frac{105}{229}, \frac{18}{229}, -\frac{59}{229}, \frac{3}{229}, \frac{65}{229})$ $+ \frac{2}{229}\sqrt{10506}e^4 \otimes e_7$	{13459, 178, 3567, 4689}
94:19	$0, 0, 0, 0, 0, \frac{11}{189}\sqrt{10}e^{12}, \frac{11}{189}\sqrt{67}e^{13}, \frac{11}{189}\sqrt{10}e^{14} + \frac{11}{189}\sqrt{35}e^{23},$ $\frac{88}{189}e^{24} + \frac{11}{189}\sqrt{41}e^{35}$	$(-\frac{22}{189}, -\frac{11}{63}, \frac{11}{27}, \frac{22}{63}, -\frac{44}{189}, -\frac{55}{189}, \frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{163}e^4 \otimes e_6 + \frac{22}{189}\sqrt{43}e^3 \otimes e_5$	{1234, 1368}
94:19	$0, 0, 0, 0, 0, \frac{5}{413}\sqrt{222}e^{12}, \frac{5}{413}\sqrt{41}e^{13}, \frac{5}{413}\sqrt{222}e^{14} + \frac{5}{413}\sqrt{251}e^{23},$ $\frac{10}{413}\sqrt{37}e^{24} + \frac{5}{413}\sqrt{21}e^{35}$	$(\frac{10}{413}, -\frac{25}{413}, \frac{45}{413}, \frac{10}{413}, -\frac{60}{413}, -\frac{15}{413}, \frac{55}{413}, \frac{20}{413}, -\frac{15}{413})$ $+ \frac{10}{413}\sqrt{109}e^1 \otimes e_9 + \frac{5}{413}\sqrt{321}e^4 \otimes e_6$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{6513}e^{12}, \frac{2}{659}\sqrt{44422}e^{13},$ $\frac{2}{659}\sqrt{55277}e^{14} + \frac{2}{659}\sqrt{26553}e^{23}, \frac{2}{659}\sqrt{44422}e^{24} + \frac{4}{659}\sqrt{14362}e^{35}$	$(-\frac{29}{659}, \frac{143}{659}, -\frac{162}{659}, \frac{10}{659}, \frac{315}{659}, \frac{114}{659}, \frac{191}{659}, -\frac{19}{659}, \frac{153}{659})$ $+ \frac{4}{659}\sqrt{24382}e^5 \otimes e_8$	{128, 136789, 2356, 579}
94:19	$0, 0, 0, 0, 0, \frac{6}{179}\sqrt{235}e^{12}, \frac{2}{179}\sqrt{1410}e^{13}, \frac{6}{179}\sqrt{235}e^{14} + \frac{2}{179}\sqrt{2867}e^{23},$ $\frac{2}{179}\sqrt{1410}e^{24} + \frac{4}{179}\sqrt{705}e^{35}$	$(\frac{59}{179}, \frac{13}{179}, -\frac{2}{179}, -\frac{48}{179}, -\frac{33}{179}, \frac{72}{179}, \frac{57}{179}, \frac{11}{179}, -\frac{35}{179})$ $+ \frac{4}{179}\sqrt{1786}e^1 \otimes e_9$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{20}{5957}\sqrt{57}e^{12}, \frac{5}{5957}\sqrt{5914}e^{13},$ $\frac{5}{5957}\sqrt{4190}e^{14} + \frac{10}{5957}\sqrt{942}e^{23}, \frac{10}{5957}\sqrt{1073}e^{24} + \frac{5}{5957}\sqrt{4494}e^{35}$	$(-\frac{160}{5957}, -\frac{50}{5957}, \frac{85}{5957}, \frac{195}{5957}, \frac{60}{5957}, -\frac{30}{851}, -\frac{75}{5957}, \frac{5}{851}, \frac{145}{5957})$ $+ \frac{10}{5957}\sqrt{1639}e^2 \otimes e_7 + \frac{5}{5957}\sqrt{4866}e^3 \otimes e_5$	{157, 3678}
94:19	$0, 0, 0, 0, 0, \frac{39}{1169}\sqrt{47}e^{12}, \frac{13}{1169}\sqrt{751}e^{13},$ $\frac{52}{1169}\sqrt{41}e^{14} + \frac{52}{1169}\sqrt{33}e^{23}, \frac{13}{1169}\sqrt{446}e^{24} + \frac{13}{1169}\sqrt{210}e^{35}$	$(-\frac{169}{1169}, \frac{13}{1169}, \frac{13}{1169}, \frac{195}{1169}, \frac{195}{1169}, -\frac{156}{1169}, -\frac{156}{1169}, \frac{26}{1169}, \frac{208}{1169})$ $+ \frac{13}{1169}\sqrt{1243}e^2 \otimes e_7 - \frac{13}{1169}\sqrt{915}e^3 \otimes e_6$	{12359, 1567, 2689, 378}
94:19	$0, 0, 0, 0, 0, \frac{31}{4669}\sqrt{2746}e^{12}, \frac{31}{4669}\sqrt{4866}e^{13},$ $\frac{186}{4669}\sqrt{5}e^{14} + \frac{62}{4669}\sqrt{118}e^{23}, \frac{62}{4669}\sqrt{914}e^{24} + \frac{31}{4669}\sqrt{2806}e^{35}$	$(-\frac{682}{4669}, -\frac{403}{4669}, \frac{837}{4669}, \frac{1116}{4669}, -\frac{124}{4669}, -\frac{155}{667}, \frac{155}{4669}, \frac{62}{667}, \frac{31}{203})$ $+ \frac{341}{4669}\sqrt{30}e^3 \otimes e_5 + \frac{62}{4669}\sqrt{1283}e^4 \otimes e_7$	{157, 3678}
94:19	$0, 0, 0, 0, 0, \frac{34}{1001}\sqrt{69}e^{12}, \frac{17}{1001}\sqrt{619}e^{13},$ $\frac{34}{1001}\sqrt{215}e^{14} + \frac{17}{1001}\sqrt{165}e^{23}, \frac{340}{1001}e^{24} + \frac{17}{1001}\sqrt{733}e^{35}$	$(-\frac{170}{1001}, \frac{68}{1001}, -\frac{51}{1001}, \frac{17}{91}, \frac{306}{1001}, -\frac{102}{1001}, -\frac{17}{77}, \frac{17}{1001}, \frac{255}{1001})$ $+ \frac{51}{1001}\sqrt{73}e^4 \otimes e_6 + \frac{68}{1001}\sqrt{73}e^5 \otimes e_8$	{136789, 2356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:19	$0, 0, 0, 0, 0, \frac{39}{301}\sqrt{10}e^{12}, \frac{39}{301}\sqrt{5}e^{13}, \frac{39}{301}\sqrt{10}e^{14} + \frac{13}{301}\sqrt{107}e^{23},$ $\frac{26}{301}\sqrt{15}e^{24} + \frac{13}{301}\sqrt{105}e^{35}$	$(-\frac{78}{301}, \frac{13}{301}, \frac{13}{301}, \frac{104}{301}, \frac{104}{301}, -\frac{65}{301}, -\frac{65}{301}, \frac{26}{301}, \frac{117}{301})$ $+ \frac{221}{301}e^4 \otimes e_6 + \frac{26}{301}\sqrt{61}e^5 \otimes e_7$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{39}{301}\sqrt{10}e^{12}, \frac{39}{301}\sqrt{5}e^{13}, \frac{39}{301}\sqrt{10}e^{14} + \frac{13}{301}\sqrt{107}e^{23},$ $\frac{26}{301}\sqrt{15}e^{24} + \frac{13}{301}\sqrt{105}e^{35}$	$(-\frac{78}{301}, \frac{13}{301}, \frac{13}{301}, \frac{104}{301}, \frac{104}{301}, -\frac{65}{301}, -\frac{65}{301}, \frac{26}{301}, \frac{117}{301})$ $+ \frac{221}{301}e^4 \otimes e_6 - \frac{26}{301}\sqrt{61}e^5 \otimes e_7$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{204}{677}e^{12}, \frac{34}{677}\sqrt{87}e^{13}, \frac{204}{677}e^{14} + \frac{17}{677}\sqrt{170}e^{23},$ $\frac{17}{677}\sqrt{222}e^{24} + \frac{136}{677}\sqrt{3}e^{35}$	$(\frac{170}{677}, -\frac{17}{677}, \frac{85}{677}, -\frac{102}{677}, -\frac{204}{677}, \frac{153}{677}, \frac{255}{677}, \frac{68}{677}, -\frac{119}{677})$ $+ \frac{17}{677}\sqrt{814}e^1 \otimes e_9 + \frac{51}{677}\sqrt{42}e^3 \otimes e_5$	{2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{34}{1001}\sqrt{77}e^{14} + \frac{17}{1001}\sqrt{165}e^{23}, \frac{34}{1001}\sqrt{69}e^{12}, \frac{51}{1001}\sqrt{61}e^{13},$ $\frac{272}{1001}\sqrt{3}e^{24} + \frac{17}{1001}\sqrt{435}e^{35}$	$(-\frac{170}{1001}, \frac{68}{1001}, -\frac{51}{1001}, \frac{17}{91}, \frac{306}{1001}, -\frac{102}{1001}, -\frac{17}{77}, \frac{17}{1001}, \frac{255}{1001})$ $+ \frac{51}{1001}\sqrt{73}e^4 \otimes e_6 + \frac{68}{1001}\sqrt{73}e^2 \otimes e_7$	{1567, 2689}
94:19	$0, 0, 0, 0, 0, \frac{5}{413}\sqrt{222}e^{12}, \frac{5}{413}\sqrt{41}e^{13}, \frac{5}{413}\sqrt{222}e^{14} + \frac{5}{413}\sqrt{251}e^{23},$ $\frac{10}{413}\sqrt{37}e^{24} + \frac{15}{413}\sqrt{21}e^{35}$	$(\frac{10}{413}, -\frac{25}{413}, \frac{45}{413}, \frac{10}{413}, -\frac{60}{413}, -\frac{15}{413}, \frac{55}{413}, \frac{20}{413}, -\frac{15}{413})$ $+ \frac{10}{413}\sqrt{109}e^1 \otimes e_9 - \frac{5}{413}\sqrt{321}e^4 \otimes e_6$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{6}{2105}\sqrt{15989}e^{14} + \frac{2}{2105}\sqrt{313005}e^{23}, \frac{6}{2105}\sqrt{64227}e^{12}, \frac{2}{2105}\sqrt{144714}e^{13},$ $\frac{6}{2105}\sqrt{37398}e^{24} + \frac{4}{2105}\sqrt{132519}e^{35}$	$(-\frac{383}{2105}, -\frac{353}{2105}, \frac{178}{421}, \frac{184}{421}, -\frac{323}{2105}, -\frac{736}{2105}, \frac{507}{2105}, \frac{537}{2105}, \frac{567}{2105})$ $+ \frac{24}{2105}\sqrt{10027}e^3 \otimes e_6$	{1235, 15679, 268, 3789}
94:19	$0, 0, 0, 0, 0, \frac{1}{427}\sqrt{1101}e^{12}, \frac{3}{427}\sqrt{29}e^{13}, \frac{6}{427}\sqrt{14}e^{14} + \frac{1}{427}\sqrt{723}e^{23},$ $\frac{3}{427}\sqrt{29}e^{24} + \frac{3}{427}\sqrt{141}e^{35}$	$(\frac{4}{427}, \frac{11}{427}, -\frac{17}{427}, -\frac{10}{427}, \frac{18}{427}, \frac{15}{427}, -\frac{13}{427}, -\frac{6}{427}, \frac{1}{427})$ $+ \frac{1}{427}\sqrt{1185}e^1 \otimes e_9 + \frac{1}{427}\sqrt{1194}e^5 \otimes e_6$	{123578, 234689}
94:19	$0, 0, 0, 0, 0, \frac{110}{777}\sqrt{6}e^{12}, \frac{44}{777}\sqrt{34}e^{13}, \frac{121}{777}e^{14} + \frac{88}{777}\sqrt{2}e^{23},$ $\frac{22}{259}\sqrt{11}e^{24} + \frac{44}{777}\sqrt{59}e^{35}$	$(-\frac{55}{259}, -\frac{11}{777}, \frac{22}{259}, \frac{220}{777}, \frac{143}{777}, -\frac{176}{777}, -\frac{33}{259}, \frac{55}{777}, \frac{209}{777})$ $+ \frac{22}{777}\sqrt{307}e^5 \otimes e_7 + \frac{22}{777}\sqrt{398}e^3 \otimes e_6$	{1235, 3789}
94:19	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{43}e^{13}, \frac{2}{49}\sqrt{30}e^{14} + \frac{4}{49}\sqrt{14}e^{23},$ $\frac{4}{49}\sqrt{5}e^{24} + \frac{6}{49}\sqrt{7}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{109}e^1 \otimes e_9 + \frac{2}{49}\sqrt{69}e^5 \otimes e_7$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{43}e^{13}, \frac{2}{49}\sqrt{30}e^{14} + \frac{4}{49}\sqrt{14}e^{23},$ $\frac{4}{49}\sqrt{5}e^{24} + \frac{6}{49}\sqrt{7}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{109}e^1 \otimes e_9 - \frac{2}{49}\sqrt{69}e^5 \otimes e_7$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{703}e^{12}, \frac{2}{131}\sqrt{1702}e^{13}, \frac{6}{131}\sqrt{74}e^{14} + \frac{2}{131}\sqrt{851}e^{23},$ $\frac{2}{131}\sqrt{1702}e^{24} + \frac{2}{131}\sqrt{3034}e^{35}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{2}{131}, \frac{43}{131}, \frac{49}{131}, -\frac{25}{131}, -\frac{31}{131}, \frac{10}{131}, \frac{51}{131})$ $+ \frac{4}{131}\sqrt{1073}e^5 \otimes e_6$	{123578, 12459, 234689, 267}
94:19	$0, 0, 0, 0, 0, \frac{6}{521}\sqrt{95}e^{12}, \frac{2}{521}\sqrt{41610}e^{13}, \frac{6}{521}\sqrt{95}e^{14} + \frac{2}{521}\sqrt{20235}e^{23},$ $\frac{2}{521}\sqrt{570}e^{24} + \frac{4}{521}\sqrt{10545}e^{35}$	$(-\frac{63}{521}, \frac{155}{521}, -\frac{134}{521}, \frac{84}{521}, \frac{373}{521}, \frac{92}{521}, -\frac{197}{521}, \frac{21}{521}, \frac{239}{521})$ $+ \frac{72}{521}\sqrt{95}e^5 \otimes e_7$	{1247, 1678, 2569, 4589}
94:19	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{42251}e^{14} + \frac{2}{659}\sqrt{6513}e^{12}, \frac{2}{659}\sqrt{53106}e^{13},$ $\frac{2}{659}\sqrt{26553}e^{23} + \frac{2}{659}\sqrt{53106}e^{24} + \frac{8}{659}\sqrt{2505}e^{35}$	$(-\frac{29}{659}, \frac{143}{659}, -\frac{162}{659}, \frac{10}{659}, \frac{315}{659}, \frac{114}{659}, -\frac{191}{659}, -\frac{19}{659}, \frac{153}{659})$ $+ \frac{4}{659}\sqrt{24382}e^2 \otimes e_7$	{12359, 1567, 2689, 378}
94:19	$0, 0, 0, 0, 0, \frac{52}{1169}\sqrt{41}e^{14} + \frac{52}{1169}\sqrt{33}e^{23}, \frac{39}{1169}\sqrt{47}e^{12}, \frac{13}{1169}\sqrt{751}e^{13},$ $\frac{13}{1169}\sqrt{446}e^{24} + \frac{13}{1169}\sqrt{210}e^{35}$	$(-\frac{169}{1169}, \frac{13}{1169}, \frac{13}{1169}, \frac{195}{1169}, \frac{195}{1169}, -\frac{156}{1169}, -\frac{156}{1169}, \frac{26}{1169}, \frac{208}{1169})$ $+ \frac{13}{1169}\sqrt{1243}e^2 \otimes e_7 + \frac{13}{1169}\sqrt{915}e^3 \otimes e_6$	{12359, 1567, 2689, 378}
94:19	$0, 0, 0, 0, 0, \frac{1}{427}\sqrt{93}e^{12}, \frac{1}{427}\sqrt{933}e^{13}, \frac{6}{427}\sqrt{14}e^{14} + \frac{1}{427}\sqrt{723}e^{23},$ $\frac{1}{427}\sqrt{933}e^{24} + \frac{5}{427}\sqrt{3}e^{35}$	$(\frac{4}{427}, \frac{11}{427}, -\frac{17}{427}, -\frac{10}{427}, \frac{18}{427}, \frac{15}{427}, -\frac{13}{427}, -\frac{6}{427}, \frac{1}{427})$ $+ \frac{1}{427}\sqrt{1185}e^1 \otimes e_9 + \frac{1}{427}\sqrt{1194}e^4 \otimes e_7$	{178, 45689}
94:19	$0, 0, 0, 0, 0, \frac{186}{2149}\sqrt{6}e^{14} + \frac{31}{2149}\sqrt{182}e^{23}, \frac{62}{2149}\sqrt{73}e^{12}, \frac{62}{2149}\sqrt{398}e^{13},$ $\frac{31}{2149}\sqrt{1122}e^{24} + \frac{62}{2149}\sqrt{55}e^{35}$	$(-\frac{527}{2149}, -\frac{93}{2149}, \frac{341}{2149}, \frac{775}{2149}, \frac{341}{2149}, -\frac{620}{2149}, -\frac{186}{2149}, \frac{248}{2149}, \frac{682}{2149})$ $+ \frac{31}{2149}\sqrt{1410}e^3 \otimes e_6 + \frac{31}{2149}\sqrt{2426}e^4 \otimes e_7$	{13459, 4689}
94:19	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{66}e^{13}, \frac{8}{49}e^{14} + \frac{2}{49}\sqrt{10}e^{23},$ $\frac{2}{49}\sqrt{66}e^{24} + \frac{2}{49}\sqrt{6}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{86}e^1 \otimes e_9 + \frac{4}{49}\sqrt{23}e^2 \otimes e_7$	{12348, 34579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:19	$0, 0, 0, 0, 0, \frac{6}{131}\sqrt{246}e^{12}, \frac{5}{131}\sqrt{123}e^{13}, \frac{6}{131}\sqrt{246}e^{14} + \frac{7}{131}\sqrt{123}e^{23},$ $\frac{12}{131}\sqrt{41}e^{24} + \frac{1}{131}\sqrt{2829}e^{35}$	$(-\frac{38}{131}, -\frac{14}{131}, \frac{47}{131}, \frac{71}{131}, \frac{10}{131}, -\frac{52}{131}, \frac{9}{131}, \frac{33}{131}, \frac{57}{131})$ $+ \frac{3}{131}\sqrt{2993}e^4 \otimes e_6$	{124, 168, 25679, 45789}
94:19	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{26}e^{13}, \frac{4}{49}\sqrt{19}e^{14} + \frac{2}{49}\sqrt{10}e^{23},$ $\frac{2}{49}\sqrt{26}e^{24} + \frac{2}{49}\sqrt{86}e^{35}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{86}e^1 \otimes e_9 + \frac{4}{49}\sqrt{23}e^5 \otimes e_8$	{134567, 234689}
94:19	$0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{6}{49}\sqrt{7}e^{13}, \frac{4}{49}\sqrt{21}e^{14} + \frac{3}{49}\sqrt{14}e^{23},$ $\frac{6}{49}\sqrt{7}e^{24} + \frac{3}{49}\sqrt{14}e^{35}$	$(-\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{3}{7}, 0, -\frac{2}{7}, 0, \frac{2}{7})$ $+ \frac{1}{49}\sqrt{798}e^5 \otimes e_6 + \frac{5}{49}\sqrt{42}e^2 \otimes e_7$	{167, 3578}
94:19	$0, 0, 0, 0, 0, \frac{3}{488}\sqrt{10117}e^{12}, \frac{1}{488}\sqrt{194790}e^{13},$ $\frac{3}{488}\sqrt{10117}e^{14} + \frac{1}{244}\sqrt{40317}e^{23}, \frac{1}{244}\sqrt{16761}e^{24} + \frac{1}{244}\sqrt{30351}e^{35}$	$(\frac{51}{488}, -\frac{173}{976}, \frac{229}{488}, \frac{3}{16}, -\frac{28}{61}, -\frac{71}{976}, \frac{35}{61}, \frac{285}{976}, \frac{5}{488})$ $+ \frac{3}{488}\sqrt{42582}e^3 \otimes e_5$	{1245678, 157, 2347, 3678}
94:19	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{370}e^{12}, \frac{2}{131}\sqrt{2590}e^{13}, \frac{6}{131}\sqrt{74}e^{14} + \frac{2}{131}\sqrt{851}e^{23},$ $\frac{2}{131}\sqrt{2590}e^{24} + \frac{2}{131}\sqrt{1258}e^{35}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{2}{131}, \frac{43}{131}, \frac{49}{131}, -\frac{25}{131}, -\frac{31}{131}, \frac{10}{131}, \frac{51}{131})$ $+ \frac{4}{131}\sqrt{1073}e^4 \otimes e_7$	{13459, 1578, 367, 4689}
94:20	$0, 0, 0, 0, 0, \frac{6}{605}\sqrt{3059}e^{12}, \frac{6}{605}\sqrt{3059}e^{14} - \frac{6}{605}\sqrt{5773}e^{23},$ $\frac{6}{605}\sqrt{2921}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{12}{605}\sqrt{1426}e^{15}$	$(-\frac{24}{605}, -\frac{24}{605}, \frac{227}{605}, \frac{227}{605}, -\frac{163}{605}, -\frac{48}{605}, \frac{203}{605}, \frac{203}{605}, -\frac{17}{55})$ $+ \frac{12}{605}\sqrt{2990}e^3 \otimes e_9$	{12356, 1246789, 13457, 189, 2348, 2579, 3678, 4569, 12356, 1246789, 13457, 189, 2348, 2579, 3678, 4569}
94:20	$0, 0, 0, 0, 0, \frac{6}{605}\sqrt{3059}e^{12}, \frac{6}{605}\sqrt{3059}e^{14} + \frac{6}{605}\sqrt{5773}e^{23},$ $\frac{6}{605}\sqrt{2921}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{12}{605}\sqrt{1426}e^{15}$	$(-\frac{24}{605}, -\frac{24}{605}, \frac{227}{605}, \frac{227}{605}, -\frac{163}{605}, -\frac{48}{605}, \frac{203}{605}, \frac{203}{605}, -\frac{17}{55})$ $+ \frac{12}{605}\sqrt{2990}e^3 \otimes e_9$	{12356, 1246789, 13457, 189, 2348, 2579, 3678, 4569, 12356, 1246789, 13457, 189, 2348, 2579, 3678, 4569}
94:20	$0, 0, 0, 0, 0, \frac{6}{605}\sqrt{3059}e^{12}, \frac{6}{605}\sqrt{2921}e^{14} - \frac{6}{605}\sqrt{5773}e^{23},$ $\frac{6}{605}\sqrt{3059}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{12}{605}\sqrt{1426}e^{15}$	$(-\frac{24}{605}, -\frac{24}{605}, -\frac{3}{55}, -\frac{3}{55}, \frac{357}{605}, -\frac{48}{605}, -\frac{57}{605}, -\frac{57}{605}, \frac{333}{605})$ $+ \frac{12}{605}\sqrt{2990}e^5 \otimes e_7$	{1234568, 12679, 13789, 145, 2359, 2478, 3467, 5689, 1234568, 12679, 13789, 145, 2359, 2478, 3467, 5689}
94:20	$0, 0, 0, 0, 0, \frac{6}{605}\sqrt{3059}e^{12}, \frac{6}{605}\sqrt{2921}e^{14} + \frac{6}{605}\sqrt{5773}e^{23},$ $\frac{6}{605}\sqrt{3059}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{12}{605}\sqrt{1426}e^{15}$	$(-\frac{24}{605}, -\frac{24}{605}, -\frac{3}{55}, -\frac{3}{55}, \frac{357}{605}, -\frac{48}{605}, -\frac{57}{605}, -\frac{57}{605}, \frac{333}{605})$ $+ \frac{12}{605}\sqrt{2990}e^5 \otimes e_7$	{1234568, 12679, 13789, 145, 2359, 2478, 3467, 5689, 1234568, 12679, 13789, 145, 2359, 2478, 3467, 5689}
94:20	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{46}e^{12}, \frac{5}{63}\sqrt{23}e^{14} - \frac{1}{63}\sqrt{759}e^{23},$ $\frac{1}{21}\sqrt{23}e^{13} + \frac{1}{63}\sqrt{23}e^{24}, \frac{4}{63}\sqrt{69}e^{15}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{19}{63}, \frac{19}{63}, \frac{5}{63}, -\frac{2}{7}, \frac{10}{63}, \frac{10}{63}, -\frac{4}{63})$ $+ \frac{23}{63}\sqrt{2}e^5 \otimes e_6 + \frac{2}{63}\sqrt{391}e^3 \otimes e_9$	{1246789, 13457, 2579, 3678, 1246789, 13457, 2579, 3678}
94:20	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{46}e^{12}, \frac{5}{63}\sqrt{23}e^{14} + \frac{1}{63}\sqrt{759}e^{23},$ $\frac{1}{21}\sqrt{23}e^{13} + \frac{1}{63}\sqrt{23}e^{24}, \frac{4}{63}\sqrt{69}e^{15}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{19}{63}, \frac{19}{63}, \frac{5}{63}, -\frac{2}{7}, \frac{10}{63}, \frac{10}{63}, -\frac{4}{63})$ $+ \frac{23}{63}\sqrt{2}e^5 \otimes e_6 + \frac{2}{63}\sqrt{391}e^3 \otimes e_9$	{1246789, 13457, 2579, 3678, 1246789, 13457, 2579, 3678}
94:20	$0, 0, 0, 0, 0, \frac{34}{1533}\sqrt{271}e^{12}, \frac{17}{1533}\sqrt{426}e^{14} - \frac{17}{1533}\sqrt{114}e^{23},$ $\frac{34}{1533}\sqrt{271}e^{13} + \frac{34}{1533}\sqrt{193}e^{24}, \frac{51}{511}\sqrt{10}e^{15}$	$(-\frac{17}{1533}, -\frac{17}{1533}, \frac{85}{511}, \frac{85}{511}, -\frac{102}{511}, -\frac{34}{1533}, \frac{34}{219}, \frac{34}{219}, -\frac{323}{1533})$ $+ \frac{17}{1533}\sqrt{1586}e^1 \otimes e_5 + \frac{34}{1533}\sqrt{329}e^3 \otimes e_6$	{1237, 1678, 256, 358, 1237, 1678, 256, 358}
94:20	$0, 0, 0, 0, 0, \frac{34}{1533}\sqrt{271}e^{12}, \frac{17}{1533}\sqrt{426}e^{14} + \frac{17}{1533}\sqrt{114}e^{23},$ $\frac{34}{1533}\sqrt{271}e^{13} + \frac{34}{1533}\sqrt{193}e^{24}, \frac{51}{511}\sqrt{10}e^{15}$	$(-\frac{17}{1533}, -\frac{17}{1533}, \frac{85}{511}, \frac{85}{511}, -\frac{102}{511}, -\frac{34}{1533}, \frac{34}{219}, \frac{34}{219}, -\frac{323}{1533})$ $+ \frac{17}{1533}\sqrt{1586}e^1 \otimes e_5 + \frac{34}{1533}\sqrt{329}e^3 \otimes e_6$	{1237, 1678, 256, 358, 1237, 1678, 256, 358}
94:20	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{3542}e^{12}, \frac{1}{152}\sqrt{6279}e^{14} - \frac{1}{152}\sqrt{1610}e^{23},$ $\frac{1}{152}\sqrt{6279}e^{13} + \frac{1}{152}\sqrt{1610}e^{24}, \frac{7}{152}\sqrt{322}e^{15}$	$(-\frac{29}{152}, -\frac{29}{152}, \frac{79}{304}, \frac{79}{304}, \frac{103}{152}, -\frac{29}{76}, \frac{21}{304}, \frac{21}{304}, \frac{37}{76})$ $+ \frac{1}{152}\sqrt{40894}e^5 \otimes e_6$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{1}{152}\sqrt{3542}e^{12}, \frac{1}{152}\sqrt{6279}e^{14} + \frac{1}{152}\sqrt{1610}e^{23},$ $\frac{1}{152}\sqrt{6279}e^{13} + \frac{1}{152}\sqrt{1610}e^{24}, \frac{7}{152}\sqrt{322}e^{15}$	$(-\frac{29}{152}, -\frac{29}{152}, \frac{79}{304}, \frac{79}{304}, \frac{103}{152}, -\frac{29}{76}, \frac{21}{304}, \frac{21}{304}, \frac{37}{76})$ $+ \frac{1}{152}\sqrt{40894}e^5 \otimes e_6$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{30}{593}\sqrt{203}e^{12}, \frac{6}{593}\sqrt{2291}e^{14} - \frac{72}{593}\sqrt{29}e^{23},$ $\frac{30}{593}\sqrt{203}e^{13} + \frac{6}{593}\sqrt{3190}e^{24}, \frac{6}{593}\sqrt{1798}e^{15}$	$(-\frac{124}{593}, -\frac{124}{593}, \frac{274}{593}, \frac{274}{593}, \frac{147}{593}, -\frac{248}{593}, \frac{150}{593}, \frac{150}{593}, \frac{23}{593})$ $+ \frac{12}{593}\sqrt{3683}e^3 \otimes e_6$	{123, 12359, 15689, 168, 2567, 2679, 3578, 3789, 123, 12359, 15689, 168, 2567, 2679, 3578, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:20	$0, 0, 0, 0, 0, \frac{30}{593}\sqrt{203}e^{12}, \frac{6}{593}\sqrt{2291}e^{14} + \frac{72}{593}\sqrt{29}e^{23},$ $\frac{30}{593}\sqrt{203}e^{13} + \frac{6}{593}\sqrt{3190}e^{24}, \frac{6}{593}\sqrt{1798}e^{15}$	$(-\frac{124}{593}, -\frac{124}{593}, \frac{274}{593}, \frac{274}{593}, \frac{147}{593}, -\frac{248}{593}, \frac{150}{593}, \frac{150}{593}, \frac{23}{593})$ $+ \frac{12}{593}\sqrt{3683}e^3 \otimes e_6$	{123, 12359, 15689, 168, 2567, 2679, 3578, 3789, 123, 12359, 15689, 168, 2567, 2679, 3578, 3789}
94:20	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{11}e^{12}, \frac{1}{28}\sqrt{15}e^{14} - \frac{1}{28}\sqrt{14}e^{23},$ $\frac{1}{28}\sqrt{15}e^{13} + \frac{1}{28}\sqrt{14}e^{24}, \frac{5}{28}e^{15}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{28}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{28}\sqrt{19}e^5 \otimes e_6 + \frac{1}{28}\sqrt{33}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{11}e^{12}, \frac{1}{28}\sqrt{15}e^{14} + \frac{1}{28}\sqrt{14}e^{23},$ $\frac{1}{28}\sqrt{15}e^{13} + \frac{1}{28}\sqrt{14}e^{24}, \frac{5}{28}e^{15}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{28}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{28}\sqrt{19}e^5 \otimes e_6 + \frac{1}{28}\sqrt{33}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{2}{483}\sqrt{21}e^{12}, \frac{1}{483}\sqrt{285}e^{14} - \frac{1}{483}\sqrt{1173}e^{23},$ $\frac{1}{161}\sqrt{95}e^{13} + \frac{1}{161}\sqrt{67}e^{24}, \frac{1}{483}\sqrt{1374}e^{15}$	$(\frac{11}{483}, \frac{11}{483}, -\frac{17}{483}, -\frac{17}{483}, -\frac{1}{161}, \frac{22}{483}, -\frac{2}{161}, -\frac{2}{161}, \frac{8}{483})$ $+ \frac{1}{483}\sqrt{1542}e^2 \otimes e_9 + \frac{2}{483}\sqrt{285}e^5 \otimes e_7$	{123568, 134789, 278, 45689, 123568, 134789, 278, 45689}
94:20	$0, 0, 0, 0, 0, \frac{2}{483}\sqrt{21}e^{12}, \frac{1}{483}\sqrt{285}e^{14} + \frac{1}{483}\sqrt{1173}e^{23},$ $\frac{1}{161}\sqrt{95}e^{13} + \frac{1}{161}\sqrt{67}e^{24}, \frac{1}{483}\sqrt{1374}e^{15}$	$(\frac{11}{483}, \frac{11}{483}, -\frac{17}{483}, -\frac{17}{483}, -\frac{1}{161}, \frac{22}{483}, -\frac{2}{161}, -\frac{2}{161}, \frac{8}{483})$ $+ \frac{1}{483}\sqrt{1542}e^2 \otimes e_9 + \frac{2}{483}\sqrt{285}e^5 \otimes e_7$	{123568, 134789, 278, 45689, 123568, 134789, 278, 45689}
94:20	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{11}e^{12}, \frac{1}{28}\sqrt{15}e^{14} - \frac{1}{28}\sqrt{14}e^{23},$ $\frac{1}{28}\sqrt{15}e^{13} + \frac{1}{28}\sqrt{14}e^{24}, \frac{5}{28}e^{15}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{28}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56}, -\frac{1}{14})$ $- \frac{1}{28}\sqrt{19}e^5 \otimes e_6 + \frac{1}{28}\sqrt{33}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{11}e^{12}, \frac{1}{28}\sqrt{15}e^{14} + \frac{1}{28}\sqrt{14}e^{23},$ $\frac{1}{28}\sqrt{15}e^{13} + \frac{1}{28}\sqrt{14}e^{24}, \frac{5}{28}e^{15}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{28}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56}, -\frac{1}{14})$ $- \frac{1}{28}\sqrt{19}e^5 \otimes e_6 + \frac{1}{28}\sqrt{33}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{10}{371}\sqrt{105}e^{12}, \frac{5}{371}\sqrt{591}e^{14} - \frac{15}{371}\sqrt{83}e^{23},$ $\frac{5}{371}\sqrt{249}e^{13} + \frac{45}{371}\sqrt{5}e^{24}, \frac{5}{371}\sqrt{654}e^{15}$	$(-\frac{5}{371}, -\frac{5}{371}, \frac{65}{371}, \frac{65}{371}, -\frac{75}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371}, -\frac{80}{371})$ $+ \frac{30}{371}\sqrt{19}e^3 \otimes e_6 + \frac{5}{371}\sqrt{1338}e^2 \otimes e_9$	{12358, 169, 2678, 3579, 12358, 169, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{10}{371}\sqrt{105}e^{12}, \frac{5}{371}\sqrt{591}e^{14} + \frac{15}{371}\sqrt{83}e^{23},$ $\frac{5}{371}\sqrt{249}e^{13} + \frac{45}{371}\sqrt{5}e^{24}, \frac{5}{371}\sqrt{654}e^{15}$	$(-\frac{5}{371}, -\frac{5}{371}, \frac{65}{371}, \frac{65}{371}, -\frac{75}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371}, -\frac{80}{371})$ $+ \frac{30}{371}\sqrt{19}e^3 \otimes e_6 + \frac{5}{371}\sqrt{1338}e^2 \otimes e_9$	{12358, 169, 2678, 3579, 12358, 169, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{1}{140}\sqrt{9894}e^{12}, \frac{1}{140}\sqrt{9894}e^{14} - \frac{1}{140}\sqrt{6693}e^{23},$ $\frac{1}{140}\sqrt{9894}e^{13} + \frac{1}{140}\sqrt{6693}e^{24}, \frac{1}{70}\sqrt{2231}e^{15}$	$(\frac{33}{140}, \frac{33}{140}, -\frac{3}{280}, -\frac{3}{280}, -\frac{16}{35}, \frac{33}{70}, \frac{9}{40}, \frac{9}{40}, -\frac{31}{140})$ $+ \frac{1}{28}\sqrt{970}e^1 \otimes e_5$	{1237, 1346, 1678, 2345678, 256, 358, 1237, 1346, 1678, 2345678, 256, 358}
94:20	$0, 0, 0, 0, 0, \frac{1}{140}\sqrt{9894}e^{12}, \frac{1}{140}\sqrt{9894}e^{14} + \frac{1}{140}\sqrt{6693}e^{23},$ $\frac{1}{140}\sqrt{9894}e^{13} + \frac{1}{140}\sqrt{6693}e^{24}, \frac{1}{70}\sqrt{2231}e^{15}$	$(\frac{33}{140}, \frac{33}{140}, -\frac{3}{280}, -\frac{3}{280}, -\frac{16}{35}, \frac{33}{70}, \frac{9}{40}, \frac{9}{40}, -\frac{31}{140})$ $+ \frac{1}{28}\sqrt{970}e^1 \otimes e_5$	{1237, 1346, 1678, 2345678, 256, 358, 1237, 1346, 1678, 2345678, 256, 358}
94:20	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{12}, \frac{1}{8}\sqrt{15}e^{14} - \frac{3}{8}\sqrt{2}e^{23},$ $\frac{1}{8}\sqrt{15}e^{13} + \frac{3}{8}\sqrt{2}e^{24}, \frac{1}{4}\sqrt{6}e^{15}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{16}, \frac{1}{16}, -\frac{3}{8}, \frac{1}{4}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{4})$ $+ \frac{1}{8}\sqrt{42}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{12}, \frac{1}{8}\sqrt{15}e^{14} + \frac{3}{8}\sqrt{2}e^{23},$ $\frac{1}{8}\sqrt{15}e^{13} + \frac{3}{8}\sqrt{2}e^{24}, \frac{1}{4}\sqrt{6}e^{15}$	$(\frac{1}{8}, \frac{1}{8}, \frac{1}{16}, \frac{1}{16}, -\frac{3}{8}, \frac{1}{4}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{4})$ $+ \frac{1}{8}\sqrt{42}e^2 \otimes e_9$	{12358, 1346789, 169, 2346, 2678, 3579, 12358, 1346789, 169, 2346, 2678, 3579}
94:20	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{2}{17}\sqrt{39}e^{14} - \frac{2}{17}\sqrt{39}e^{23},$ $\frac{2}{17}\sqrt{39}e^{13} + \frac{2}{17}\sqrt{39}e^{24}, \frac{4}{17}\sqrt{13}e^{15}$	$(0, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17})$ $+ \frac{2}{17}\sqrt{38}e^1 \otimes e_5 + \frac{2}{17}\sqrt{66}e^2 \otimes e_9$	{123568, 234, 278, 123568, 234, 278}
94:20	$0, 0, 0, 0, 0, \frac{2}{17}\sqrt{6}e^{12}, \frac{2}{17}\sqrt{39}e^{14} + \frac{2}{17}\sqrt{39}e^{23},$ $\frac{2}{17}\sqrt{39}e^{13} + \frac{2}{17}\sqrt{39}e^{24}, \frac{4}{17}\sqrt{13}e^{15}$	$(0, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17}, 0, \frac{3}{17}, \frac{3}{17}, -\frac{4}{17})$ $+ \frac{2}{17}\sqrt{38}e^1 \otimes e_5 + \frac{2}{17}\sqrt{66}e^2 \otimes e_9$	{123568, 234, 278, 123568, 234, 278}
94:21	$0, 0, 0, 0, 0, \frac{2}{121}\sqrt{141}e^{12}, \frac{4}{121}\sqrt{658}e^{34}, \frac{2}{121}\sqrt{141}e^{14} + \frac{10}{121}\sqrt{47}e^{23},$ $\frac{10}{121}\sqrt{47}e^{13} + \frac{4}{121}\sqrt{658}e^{25}$	$(\frac{37}{121}, -\frac{16}{121}, \frac{12}{121}, -\frac{41}{121}, \frac{65}{121}, \frac{21}{121}, -\frac{29}{121}, -\frac{4}{121}, \frac{49}{121})$ $+ \frac{2}{121}\sqrt{4841}e^5 \otimes e_7$	{123789, 134569, 234568, 37}
94:21	$0, 0, 0, 0, 0, \frac{3}{721}\sqrt{4674}e^{12}, \frac{12}{721}\sqrt{249}e^{34}, \frac{3}{721}\sqrt{1518}e^{14} + \frac{3}{721}\sqrt{138}e^{23},$ $\frac{9}{721}\sqrt{298}e^{13} + \frac{9}{721}\sqrt{230}e^{25}$	$(\frac{45}{721}, -\frac{81}{721}, \frac{45}{721}, -\frac{81}{721}, \frac{171}{721}, -\frac{36}{721}, -\frac{36}{721}, -\frac{36}{721}, \frac{90}{721})$ $+ \frac{6}{721}\sqrt{6330}e^3 \otimes e_6 + \frac{6}{721}\sqrt{1410}e^1 \otimes e_7$	{12348, 2467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:21	$0, 0, 0, 0, 0, \frac{13}{1869}\sqrt{1346e^{12}}, \frac{13}{1869}\sqrt{1253e^{34}},$ $\frac{26}{1869}\sqrt{110e^{14}} + \frac{13}{1869}\sqrt{17e^{23}}, \frac{13}{1869}\sqrt{1003e^{13}} + \frac{13}{1869}\sqrt{1126e^{25}}$	$(\frac{65}{623}, -\frac{26}{623}, \frac{13}{1869}, -\frac{260}{1869}, \frac{286}{1869}, \frac{39}{623}, -\frac{247}{1869}, -\frac{65}{1869}, \frac{208}{1869})$ $+ \frac{13}{1869}\sqrt{1405e^5} \otimes e_6 + \frac{26}{1869}\sqrt{510e^2} \otimes e_7$	{2689, 4579}
94:21	$0, 0, 0, 0, 0, \frac{120}{2453}\sqrt{71e^{12}}, \frac{18}{2453}\sqrt{5254e^{34}},$ $\frac{6}{2453}\sqrt{61486e^{14}} + \frac{6}{2453}\sqrt{52043e^{23}}, \frac{6}{2453}\sqrt{22862e^{13}} + \frac{48}{2453}\sqrt{1207e^{25}}$	$(-\frac{445}{2453}, \frac{388}{2453}, \frac{8}{223}, \frac{921}{2453}, -\frac{745}{2453}, -\frac{57}{2453}, \frac{1009}{2453}, \frac{476}{2453}, -\frac{357}{2453})$ $+ \frac{6}{2453}\sqrt{149810e^4} \otimes e_9$	{134, 1589, 35679, 4678}
94:21	$0, 0, 0, 0, 0, \frac{87}{1673}\sqrt{26e^{12}}, \frac{58}{1673}\sqrt{78e^{34}},$ $\frac{29}{1673}\sqrt{130e^{14}} + \frac{29}{1673}\sqrt{786e^{23}}, \frac{29}{1673}\sqrt{78e^{13}} + \frac{87}{1673}\sqrt{26e^{25}}$	$(-\frac{29}{1673}, \frac{435}{1673}, \frac{377}{1673}, -\frac{29}{1673}, \frac{783}{1673}, \frac{464}{1673}, \frac{348}{1673}, -\frac{58}{1673}, \frac{348}{1673})$ $+ \frac{29}{1673}\sqrt{1546e^3} \otimes e_6 + \frac{58}{1673}\sqrt{354e^5} \otimes e_8$	{12345, 145679}
94:21	$0, 0, 0, 0, 0, \frac{94}{5157}\sqrt{887e^{12}}, \frac{47}{5157}\sqrt{1886e^{34}},$ $\frac{188}{5157}\sqrt{7e^{14}} + \frac{47}{5157}\sqrt{42e^{23}}, \frac{188}{5157}\sqrt{39e^{13}} + \frac{1504}{5157}e^{25}$	$(\frac{1034}{5157}, \frac{47}{191}, -\frac{235}{1719}, -\frac{470}{5157}, -\frac{940}{5157}, \frac{2303}{5157}, -\frac{1175}{5157}, \frac{188}{1719}, \frac{329}{5157})$ $+ \frac{47}{5157}\sqrt{3962e^2} \otimes e_5 + \frac{47}{5157}\sqrt{5294e^1} \otimes e_7$	{13456, 4578}
94:21	$0, 0, 0, 0, 0, \frac{31}{2849}\sqrt{402e^{12}}, \frac{62}{2849}\sqrt{402e^{34}},$ $\frac{31}{2849}\sqrt{274e^{14}} + \frac{31}{2849}\sqrt{402e^{23}}, \frac{31}{2849}\sqrt{1002e^{13}} + \frac{279}{2849}\sqrt{10e^{25}}$	$(-\frac{527}{2849}, -\frac{93}{2849}, \frac{31}{259}, \frac{775}{2849}, -\frac{93}{2849}, -\frac{620}{2849}, \frac{1116}{2849}, \frac{248}{2849}, -\frac{186}{2849})$ $+ \frac{186}{2849}\sqrt{78e^4} \otimes e_9 + \frac{31}{2849}\sqrt{2266e^3} \otimes e_6$	{15689, 3579}
94:21	$0, 0, 0, 0, 0, \frac{19}{1029}\sqrt{446e^{12}}, \frac{38}{1029}\sqrt{193e^{34}},$ $\frac{19}{343}\sqrt{42e^{14}} + \frac{38}{1029}\sqrt{15e^{23}}, \frac{38}{1029}\sqrt{15e^{13}} + \frac{19}{1029}\sqrt{154e^{25}}$	$(\frac{38}{1029}, -\frac{76}{343}, \frac{57}{343}, -\frac{95}{1029}, \frac{437}{1029}, -\frac{190}{1029}, \frac{76}{1029}, -\frac{19}{343}, \frac{209}{1029})$ $+ \frac{19}{1029}\sqrt{1030e^3} \otimes e_6 + \frac{38}{1029}\sqrt{206e^5} \otimes e_7$	{1569, 2568}
94:21	$0, 0, 0, 0, 0, \frac{23}{1617}\sqrt{1094e^{12}}, \frac{23}{1617}\sqrt{803e^{34}}, \frac{368}{1617}e^{14} + \frac{23}{1617}\sqrt{763e^{23}},$ $\frac{23}{1617}\sqrt{53e^{13}} + \frac{23}{1617}\sqrt{406e^{25}}$	$(\frac{92}{539}, -\frac{69}{539}, \frac{115}{1617}, -\frac{368}{1617}, \frac{598}{1617}, \frac{23}{539}, -\frac{23}{147}, -\frac{92}{1617}, \frac{391}{1617})$ $+ \frac{23}{1617}\sqrt{1279e^5} \otimes e_6 + \frac{92}{1617}\sqrt{102e^1} \otimes e_7$	{1346, 3579}
94:21	$0, 0, 0, 0, 0, \frac{4}{2477}\sqrt{181289e^{12}}, \frac{4}{2477}\sqrt{176734e^{34}},$ $\frac{6}{2477}\sqrt{38262e^{14}} + \frac{4}{2477}\sqrt{11843e^{23}}, \frac{4}{2477}\sqrt{92922e^{13}} + \frac{4}{2477}\sqrt{13665e^{25}}$	$(\frac{895}{2477}, \frac{288}{2477}, -\frac{160}{2477}, -\frac{767}{2477}, \frac{447}{2477}, \frac{1183}{2477}, -\frac{927}{2477}, \frac{128}{2477}, \frac{735}{2477})$ $+ \frac{4}{2477}\sqrt{1903990e^1} \otimes e_7$	{13456, 1689, 379, 4578}
94:21	$0, 0, 0, 0, 0, \frac{9}{469}\sqrt{86e^{12}}, \frac{18}{469}\sqrt{85e^{34}}, \frac{9}{469}\sqrt{86e^{14}} + \frac{18}{469}\sqrt{21e^{23}},$ $\frac{18}{469}\sqrt{21e^{13}} + \frac{18}{469}\sqrt{85e^{25}}$	$(\frac{3}{469}, \frac{87}{469}, -\frac{39}{469}, \frac{45}{469}, -\frac{123}{469}, \frac{90}{469}, \frac{6}{469}, \frac{48}{469}, -\frac{36}{469})$ $+ \frac{9}{469}\sqrt{422e^2} \otimes e_7 + \frac{9}{469}\sqrt{422e^4} \otimes e_9$	{234568, 269}
94:21	$0, 0, 0, 0, 0, \frac{1}{903}\sqrt{4746e^{12}}, \frac{4}{903}\sqrt{301e^{34}}, \frac{1}{129}\sqrt{70e^{14}} + \frac{1}{903}\sqrt{2338e^{23}},$ $\frac{1}{903}\sqrt{714e^{13}} + \frac{1}{903}\sqrt{210e^{25}}$	$(\frac{1}{43}, -\frac{1}{43}, \frac{1}{129}, -\frac{5}{129}, \frac{7}{129}, 0, -\frac{4}{129}, -\frac{2}{129}, \frac{4}{129})$ $+ \frac{1}{903}\sqrt{5642e^3} \otimes e_6 + \frac{1}{903}\sqrt{1526e^2} \otimes e_7$	{2689, 378}
94:21	$0, 0, 0, 0, 0, \frac{2}{273}\sqrt{318e^{12}}, \frac{2}{273}\sqrt{366e^{34}}, \frac{2}{273}\sqrt{6e^{14}} + \frac{2}{273}\sqrt{42e^{23}},$ $\frac{6}{91}\sqrt{3e^{13}} + \frac{8}{91}e^{25}$	$(-\frac{2}{91}, \frac{5}{91}, -\frac{2}{91}, \frac{5}{91}, -\frac{9}{91}, \frac{3}{91}, \frac{3}{91}, -\frac{4}{91})$ $+ \frac{2}{273}\sqrt{354e^4} \otimes e_6 + \frac{2}{273}\sqrt{402e^2} \otimes e_7$	{269, 45789}
94:21	$0, 0, 0, 0, 0, \frac{8}{987}\sqrt{93e^{12}}, \frac{2}{987}\sqrt{1498e^{34}}, \frac{2}{987}\sqrt{754e^{14}} + \frac{4}{987}\sqrt{274e^{23}},$ $\frac{4}{987}\sqrt{51e^{13}} + \frac{2}{987}\sqrt{30e^{25}}$	$(\frac{2}{329}, -\frac{12}{329}, \frac{20}{987}, -\frac{22}{987}, \frac{62}{987}, -\frac{10}{329}, -\frac{2}{987}, -\frac{16}{987}, \frac{26}{987})$ $+ \frac{2}{987}\sqrt{1886e^4} \otimes e_6 + \frac{4}{987}\sqrt{446e^1} \otimes e_7$	{168, 45789}
94:21	$0, 0, 0, 0, 0, \frac{31}{7149}\sqrt{5422e^{12}}, \frac{62}{7149}\sqrt{591e^{34}},$ $\frac{31}{7149}\sqrt{4170e^{14}} + \frac{124}{7149}\sqrt{265e^{23}}, \frac{248}{7149}\sqrt{21e^{13}} + \frac{31}{7149}\sqrt{3382e^{25}}$	$(-\frac{868}{7149}, \frac{62}{2383}, \frac{93}{2383}, \frac{1333}{7149}, -\frac{775}{7149}, -\frac{682}{7149}, \frac{1612}{7149}, \frac{155}{2383}, -\frac{589}{7149})$ $+ \frac{124}{7149}\sqrt{362e^2} \otimes e_5 + \frac{31}{7149}\sqrt{7646e^3} \otimes e_6$	{1237, 268}
94:21	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{6e^{12}}, \frac{1}{13}\sqrt{2e^{34}}, \frac{4}{39}\sqrt{6e^{14}} + \frac{2}{39}\sqrt{3e^{23}},$ $\frac{1}{39}\sqrt{6e^{13}} + \frac{1}{39}\sqrt{102e^{25}}$	$(-\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, \frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, 0, 0)$ $+ \frac{1}{39}\sqrt{102e^5} \otimes e_8 + \frac{1}{39}\sqrt{114e^4} \otimes e_9$	{1236789, 124567}
94:21	$0, 0, 0, 0, 0, \frac{37}{3101}\sqrt{38e^{12}}, \frac{74}{3101}\sqrt{115e^{34}}, \frac{666}{3101}\sqrt{6e^{14}} + \frac{296}{3101}e^{23},$ $\frac{296}{3101}\sqrt{3e^{13}} + \frac{37}{3101}\sqrt{1266e^{25}}$	$(\frac{703}{3101}, -\frac{333}{3101}, \frac{185}{3101}, -\frac{851}{3101}, \frac{1221}{3101}, \frac{370}{3101}, -\frac{666}{3101}, -\frac{148}{3101}, \frac{888}{3101})$ $+ \frac{111}{3101}\sqrt{334e^5} \otimes e_8 + \frac{37}{3101}\sqrt{2494e^1} \otimes e_7$	{23567, 246789}
94:21	$0, 0, 0, 0, 0, \frac{12}{2333}\sqrt{26855e^{12}}, \frac{36}{2333}\sqrt{131e^{34}},$ $\frac{6}{2333}\sqrt{48994e^{14}} + \frac{6}{2333}\sqrt{105062e^{23}}, \frac{6}{2333}\sqrt{25283e^{13}} + \frac{6}{2333}\sqrt{47422e^{25}}$	$(\frac{90}{2333}, \frac{1073}{2333}, -\frac{302}{2333}, \frac{681}{2333}, -\frac{1285}{2333}, \frac{1163}{2333}, \frac{379}{2333}, \frac{771}{2333}, -\frac{212}{2333})$ $+ \frac{6}{2333}\sqrt{260690e^2} \otimes e_5$	{12478, 156, 2346, 3578}
94:21	$0, 0, 0, 0, 0, \frac{1}{593}\sqrt{163374e^{12}}, \frac{2}{593}\sqrt{32451e^{34}},$ $\frac{1}{593}\sqrt{143978e^{14}} + \frac{2}{593}\sqrt{24618e^{23}}, \frac{2}{593}\sqrt{24618e^{13}} + \frac{3}{593}\sqrt{11190e^{25}}$	$(-\frac{80}{593}, -\frac{138}{593}, \frac{155}{593}, \frac{97}{593}, \frac{213}{593}, -\frac{218}{593}, \frac{252}{593}, \frac{17}{593}, \frac{75}{593})$ $+ \frac{1}{593}\sqrt{384190e^3} \otimes e_6$	{1237, 169, 268, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:21	$0, 0, 0, 0, 0, \frac{3}{38}\sqrt{85}e^{12}, \frac{2}{19}\sqrt{51}e^{34}, \frac{17}{76}\sqrt{6}e^{14} + \frac{1}{76}\sqrt{1887}e^{23},$ $\frac{1}{76}\sqrt{1887}e^{13} + \frac{3}{38}\sqrt{17}e^{25}$	$(-\frac{35}{152}, -\frac{13}{152}, \frac{4}{19}, \frac{27}{76}, \frac{5}{76}, -\frac{6}{19}, \frac{43}{76}, \frac{1}{8}, -\frac{3}{152})$ $+ \frac{1}{76}\sqrt{6630}e^4 \otimes e_6$	{12457, 168, 269, 45789}
94:21	$0, 0, 0, 0, 0, \frac{6}{2453}\sqrt{61486}e^{12}, \frac{48}{2453}\sqrt{1207}e^{34},$ $\frac{120}{2453}\sqrt{71}e^{14} + \frac{6}{2453}\sqrt{22862}e^{23}, \frac{6}{2453}\sqrt{52043}e^{13} + \frac{18}{2453}\sqrt{5254}e^{25}$	$(\frac{610}{2453}, \frac{599}{2453}, -\frac{334}{2453}, -\frac{345}{2453}, -\frac{323}{2453}, \frac{1209}{2453}, -\frac{679}{2453}, \frac{265}{2453}, \frac{276}{2453})$ $+ \frac{6}{2453}\sqrt{149810}e^2 \otimes e_7$	{23456, 2689, 378, 4579}
94:21	$0, 0, 0, 0, 0, \frac{19}{483}\sqrt{6}e^{12}, \frac{19}{1449}\sqrt{667}e^{34},$ $\frac{152}{1449}\sqrt{10}e^{14} + \frac{19}{1449}\sqrt{771}e^{23}, \frac{19}{483}\sqrt{5}e^{13} + \frac{19}{1449}\sqrt{1190}e^{25}$	$(-\frac{76}{483}, -\frac{95}{1449}, \frac{19}{161}, \frac{304}{1449}, \frac{38}{1449}, -\frac{323}{1449}, \frac{475}{1449}, \frac{76}{1449}, -\frac{19}{483})$ $+ \frac{19}{1449}\sqrt{983}e^5 \otimes e_6 + \frac{76}{1449}\sqrt{102}e^4 \otimes e_9$	{1346, 3579}
94:21	$0, 0, 0, 0, 0, \frac{2}{2357}\sqrt{461058}e^{12}, \frac{6}{2357}\sqrt{24158}e^{34},$ $\frac{2}{2357}\sqrt{803382}e^{14} + \frac{4}{2357}\sqrt{109482}e^{23}, \frac{2}{2357}\sqrt{352347}e^{13} + \frac{12}{2357}\sqrt{20303}e^{25}$	$(\frac{320}{2357}, -\frac{611}{2357}, \frac{478}{2357}, -\frac{453}{2357}, \frac{1409}{2357}, -\frac{291}{2357}, \frac{25}{2357}, -\frac{133}{2357}, \frac{798}{2357})$ $+ \frac{10}{2357}\sqrt{63222}e^5 \otimes e_8$	{235, 2489, 34678, 5679}
94:21	$0, 0, 0, 0, 0, \frac{62}{1861}\sqrt{110}e^{12}, \frac{62}{1861}\sqrt{231}e^{34},$ $\frac{62}{1861}\sqrt{286}e^{14} + \frac{31}{1861}\sqrt{902}e^{23}, \frac{31}{1861}\sqrt{418}e^{13} + \frac{682}{1861}\sqrt{3}e^{25}$	$(-\frac{310}{1861}, \frac{341}{1861}, \frac{31}{1861}, \frac{682}{1861}, -\frac{620}{1861}, \frac{31}{1861}, \frac{713}{1861}, \frac{372}{1861}, -\frac{279}{1861})$ $+ \frac{31}{1861}\sqrt{290}e^2 \otimes e_5 + \frac{31}{1861}\sqrt{2930}e^4 \otimes e_9$	{1589, 35679}
94:21	$0, 0, 0, 0, 0, \frac{5}{413}\sqrt{41}e^{12}, \frac{5}{826}\sqrt{970}e^{34}, \frac{5}{413}\sqrt{222}e^{14} + \frac{5}{413}\sqrt{251}e^{23},$ $\frac{5}{826}\sqrt{510}e^{13} + \frac{15}{413}\sqrt{21}e^{25}$	$(\frac{10}{413}, \frac{45}{413}, -\frac{25}{413}, \frac{10}{413}, -\frac{60}{413}, \frac{55}{413}, \frac{15}{413}, \frac{20}{413}, -\frac{15}{413})$ $+ \frac{5}{826}\sqrt{1366}e^1 \otimes e_7 + \frac{5}{826}\sqrt{1662}e^4 \otimes e_9$	{1346, 15689, 3579, 478}
94:21	$0, 0, 0, 0, 0, \frac{5}{413}\sqrt{41}e^{12}, \frac{5}{826}\sqrt{970}e^{34}, \frac{5}{413}\sqrt{222}e^{14} + \frac{5}{413}\sqrt{251}e^{23},$ $\frac{5}{826}\sqrt{510}e^{13} + \frac{15}{413}\sqrt{21}e^{25}$	$(\frac{10}{413}, \frac{45}{413}, -\frac{25}{413}, \frac{10}{413}, -\frac{60}{413}, \frac{55}{413}, \frac{15}{413}, \frac{20}{413}, -\frac{15}{413})$ $+ \frac{5}{826}\sqrt{1366}e^1 \otimes e_7 - \frac{5}{826}\sqrt{1662}e^4 \otimes e_9$	{1346, 15689, 3579, 478}
94:21	$0, 0, 0, 0, 0, \frac{2}{903}\sqrt{89}e^{12}, \frac{4}{903}\sqrt{83}e^{34}, \frac{2}{903}\sqrt{187}e^{14} + \frac{2}{903}\sqrt{255}e^{23},$ $\frac{10}{903}e^{13} + \frac{4}{903}\sqrt{106}e^{25}$	$(-\frac{3}{301}, -\frac{16}{903}, \frac{4}{301}, \frac{5}{903}, \frac{19}{903}, -\frac{25}{903}, \frac{17}{903}, -\frac{4}{903}, \frac{1}{301})$ $+ \frac{2}{903}\sqrt{379}e^5 \otimes e_7 + \frac{4}{903}\sqrt{115}e^4 \otimes e_9$	{1236789, 23458}
94:21	$0, 0, 0, 0, 0, \frac{44}{667}\sqrt{65}e^{12}, \frac{286}{667}e^{34}, \frac{22}{667}\sqrt{39}e^{14} + \frac{22}{667}\sqrt{2}e^{23},$ $\frac{22}{667}\sqrt{127}e^{13} + \frac{22}{667}\sqrt{23}e^{25}$	$(-\frac{110}{667}, \frac{77}{667}, \frac{22}{667}, \frac{209}{667}, -\frac{165}{667}, \frac{33}{667}, \frac{231}{667}, \frac{99}{667}, -\frac{88}{667})$ $+ \frac{110}{667}\sqrt{10}e^2 \otimes e_5 + \frac{22}{667}\sqrt{355}e^4 \otimes e_6$	{1247, 1568}
94:22	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{70}\sqrt{374}e^{14} - \frac{1}{70}\sqrt{638}e^{23},$ $\frac{1}{70}\sqrt{66}e^{13} + \frac{1}{70}\sqrt{330}e^{24}, \frac{1}{35}\sqrt{209}e^{35}$	$(-\frac{4}{35}, -\frac{4}{35}, \frac{3}{35}, \frac{3}{35}, \frac{2}{7}, -\frac{8}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{13}{35})$ $+ \frac{1}{35}\sqrt{341}e^3 \otimes e_6 + \frac{4}{35}\sqrt{22}e^5 \otimes e_7$	{123458, 14569, 24678, 3479, 123458, 14569, 24678, 3479}
94:22	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{1}{70}\sqrt{374}e^{14} + \frac{1}{70}\sqrt{638}e^{23},$ $\frac{1}{70}\sqrt{66}e^{13} + \frac{1}{70}\sqrt{330}e^{24}, \frac{1}{35}\sqrt{209}e^{35}$	$(-\frac{4}{35}, -\frac{4}{35}, \frac{3}{35}, \frac{3}{35}, \frac{2}{7}, -\frac{8}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{13}{35})$ $+ \frac{1}{35}\sqrt{341}e^3 \otimes e_6 + \frac{4}{35}\sqrt{22}e^5 \otimes e_7$	{123458, 14569, 24678, 3479, 123458, 14569, 24678, 3479}
94:22	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{6}e^{12}, \frac{1}{12}\sqrt{66}e^{14} - \frac{1}{12}\sqrt{69}e^{23},$ $\frac{1}{12}\sqrt{69}e^{13} + \frac{1}{12}\sqrt{66}e^{24}, \frac{1}{4}\sqrt{10}e^{35}$	$(\frac{1}{8}, \frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4})$ $+ \frac{1}{6}\sqrt{15}e^3 \otimes e_5 + \frac{1}{6}\sqrt{30}e^4 \otimes e_9$	{124, 134568, 478, 124, 134568, 478}
94:22	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{6}e^{12}, \frac{1}{12}\sqrt{66}e^{14} + \frac{1}{12}\sqrt{69}e^{23},$ $\frac{1}{12}\sqrt{69}e^{13} + \frac{1}{12}\sqrt{66}e^{24}, \frac{1}{4}\sqrt{10}e^{35}$	$(\frac{1}{8}, \frac{1}{8}, 0, 0, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, \frac{1}{8}, -\frac{1}{4})$ $+ \frac{1}{6}\sqrt{15}e^3 \otimes e_5 + \frac{1}{6}\sqrt{30}e^4 \otimes e_9$	{124, 134568, 478, 124, 134568, 478}
94:22	$0, 0, 0, 0, 0, \frac{38}{821}\sqrt{69}e^{12}, \frac{38}{821}\sqrt{69}e^{14} - \frac{19}{821}\sqrt{114}e^{23},$ $\frac{38}{821}\sqrt{93}e^{13} + \frac{19}{821}\sqrt{210}e^{24}, \frac{19}{821}\sqrt{298}e^{35}$	$(\frac{114}{821}, \frac{114}{821}, \frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{228}{821}, \frac{171}{821}, \frac{171}{821}, -\frac{247}{821})$ $+ \frac{133}{821}\sqrt{10}e^3 \otimes e_5 + \frac{342}{821}\sqrt{3}e^1 \otimes e_9$	{2346789, 2569, 389, 4579, 2346789, 2569, 389, 4579}
94:22	$0, 0, 0, 0, 0, \frac{38}{821}\sqrt{69}e^{12}, \frac{38}{821}\sqrt{69}e^{14} + \frac{19}{821}\sqrt{114}e^{23},$ $\frac{38}{821}\sqrt{93}e^{13} + \frac{19}{821}\sqrt{210}e^{24}, \frac{19}{821}\sqrt{298}e^{35}$	$(\frac{114}{821}, \frac{114}{821}, \frac{57}{821}, \frac{57}{821}, -\frac{304}{821}, \frac{228}{821}, \frac{171}{821}, \frac{171}{821}, -\frac{247}{821})$ $+ \frac{133}{821}\sqrt{10}e^3 \otimes e_5 + \frac{342}{821}\sqrt{3}e^1 \otimes e_9$	{2346789, 2569, 389, 4579, 2346789, 2569, 389, 4579}
94:22	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{70}e^{12}, \frac{2}{63}\sqrt{70}e^{14} - \frac{1}{63}\sqrt{259}e^{23},$ $\frac{1}{63}\sqrt{35}e^{13} + \frac{2}{63}\sqrt{14}e^{24}, \frac{1}{63}\sqrt{273}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{63}\sqrt{357}e^4 \otimes e_6 + \frac{8}{63}\sqrt{7}e^1 \otimes e_9$	{124, 167, 25689, 45789, 124, 167, 25689, 45789}
94:22	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{70}e^{12}, \frac{2}{63}\sqrt{70}e^{14} + \frac{1}{63}\sqrt{259}e^{23},$ $\frac{1}{63}\sqrt{35}e^{13} + \frac{2}{63}\sqrt{14}e^{24}, \frac{1}{63}\sqrt{273}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{63}\sqrt{357}e^4 \otimes e_6 + \frac{8}{63}\sqrt{7}e^1 \otimes e_9$	{124, 167, 25689, 45789, 124, 167, 25689, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:22	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{2}{35}\sqrt{66}e^{14} - \frac{1}{35}\sqrt{11}e^{23},$ $\frac{1}{35}\sqrt{187}e^{13} + \frac{2}{35}\sqrt{22}e^{24}, \frac{1}{35}\sqrt{209}e^{35}$	$(-\frac{4}{35}, -\frac{4}{35}, \frac{3}{35}, \frac{3}{35}, \frac{2}{7}, -\frac{8}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{13}{35})$ $+\frac{1}{35}\sqrt{341}e^4 \otimes e_6 + \frac{4}{35}\sqrt{22}e^5 \otimes e_7$	{12459, 167, 25689, 478, 12459, 167, 25689, 478}
94:22	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{22}e^{12}, \frac{2}{35}\sqrt{66}e^{14} + \frac{1}{35}\sqrt{11}e^{23},$ $\frac{1}{35}\sqrt{187}e^{13} + \frac{2}{35}\sqrt{22}e^{24}, \frac{1}{35}\sqrt{209}e^{35}$	$(-\frac{4}{35}, -\frac{4}{35}, \frac{3}{35}, \frac{3}{35}, \frac{2}{7}, -\frac{8}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{13}{35})$ $+\frac{1}{35}\sqrt{341}e^4 \otimes e_6 + \frac{4}{35}\sqrt{22}e^5 \otimes e_7$	{12459, 167, 25689, 478, 12459, 167, 25689, 478}
94:22	$0, 0, 0, 0, 0, \frac{1}{148}\sqrt{5754}e^{12}, \frac{1}{148}\sqrt{5754}e^{14} - \frac{1}{148}\sqrt{16851}e^{23},$ $\frac{1}{148}\sqrt{16851}e^{13} + \frac{1}{148}\sqrt{5754}e^{24}, \frac{1}{148}\sqrt{9590}e^{35}$	$(-\frac{3}{296}, -\frac{3}{296}, \frac{15}{37}, \frac{15}{37}, -\frac{77}{148}, -\frac{3}{148}, \frac{117}{296}, \frac{117}{296}, -\frac{17}{148})$ $+\frac{1}{74}\sqrt{8905}e^3 \otimes e_5$	{1236, 1245678, 1347, 158, 3678, 456, 1236, 1245678, 1347, 158, 3678, 456}
94:22	$0, 0, 0, 0, 0, \frac{1}{148}\sqrt{5754}e^{12}, \frac{1}{148}\sqrt{5754}e^{14} + \frac{1}{148}\sqrt{16851}e^{23},$ $\frac{1}{148}\sqrt{16851}e^{13} + \frac{1}{148}\sqrt{5754}e^{24}, \frac{1}{148}\sqrt{9590}e^{35}$	$(-\frac{3}{296}, -\frac{3}{296}, \frac{15}{37}, \frac{15}{37}, -\frac{77}{148}, -\frac{3}{148}, \frac{117}{296}, \frac{117}{296}, -\frac{17}{148})$ $+\frac{1}{74}\sqrt{8905}e^3 \otimes e_5$	{1236, 1245678, 1347, 158, 3678, 456, 1236, 1245678, 1347, 158, 3678, 456}
94:22	$0, 0, 0, 0, 0, \frac{2}{247}e^{12}, \frac{1}{1729}\sqrt{1409}e^{14} - \frac{1}{1729}\sqrt{321}e^{23},$ $\frac{1}{1729}\sqrt{991}e^{13} + \frac{1}{1729}\sqrt{739}e^{24}, \frac{1}{1729}\sqrt{1590}e^{35}$	$(\frac{1}{133}, \frac{1}{133}, -\frac{15}{1729}, -\frac{15}{1729}, -\frac{1}{1729}, \frac{2}{133}, -\frac{2}{1729}, -\frac{2}{1729}, -\frac{16}{1729})$ $+\frac{1}{1729}\sqrt{1870}e^4 \otimes e_9 + \frac{2}{1729}\sqrt{335}e^5 \otimes e_7$	{1236789, 13458, 2589, 4678, 1236789, 13458, 2589, 4678}
94:22	$0, 0, 0, 0, 0, \frac{2}{247}e^{12}, \frac{1}{1729}\sqrt{1409}e^{14} + \frac{1}{1729}\sqrt{321}e^{23},$ $\frac{1}{1729}\sqrt{991}e^{13} + \frac{1}{1729}\sqrt{739}e^{24}, \frac{1}{1729}\sqrt{1590}e^{35}$	$(\frac{1}{133}, \frac{1}{133}, -\frac{15}{1729}, -\frac{15}{1729}, -\frac{1}{1729}, \frac{2}{133}, \frac{2}{1729}, -\frac{2}{1729}, -\frac{16}{1729})$ $+\frac{1}{1729}\sqrt{1870}e^4 \otimes e_9 + \frac{2}{1729}\sqrt{335}e^5 \otimes e_7$	{1236789, 13458, 2589, 4678, 1236789, 13458, 2589, 4678}
94:22	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{69}e^{12}, \frac{2}{59}\sqrt{506}e^{14} - \frac{4}{59}\sqrt{69}e^{23},$ $\frac{2}{59}\sqrt{299}e^{13} + \frac{2}{59}\sqrt{69}e^{24}, \frac{4}{59}\sqrt{115}e^{35}$	$(\frac{3}{59}, \frac{3}{59}, -\frac{10}{59}, -\frac{10}{59}, \frac{39}{59}, \frac{6}{59}, -\frac{7}{59}, -\frac{7}{59}, \frac{29}{59})$ $+\frac{10}{59}\sqrt{46}e^5 \otimes e_7$	{1234568, 1267, 13789, 1459, 235, 2478, 34679, 5689, 1234568, 1267, 13789, 1459, 235, 2478, 34679, 5689}
94:22	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{69}e^{12}, \frac{2}{59}\sqrt{506}e^{14} + \frac{4}{59}\sqrt{69}e^{23},$ $\frac{2}{59}\sqrt{299}e^{13} + \frac{2}{59}\sqrt{69}e^{24}, \frac{4}{59}\sqrt{115}e^{35}$	$(\frac{3}{59}, \frac{3}{59}, -\frac{10}{59}, -\frac{10}{59}, \frac{39}{59}, \frac{6}{59}, -\frac{7}{59}, -\frac{7}{59}, \frac{29}{59})$ $+\frac{10}{59}\sqrt{46}e^5 \otimes e_7$	{1234568, 1267, 13789, 1459, 235, 2478, 34679, 5689, 1234568, 1267, 13789, 1459, 235, 2478, 34679, 5689}
94:22	$0, 0, 0, 0, 0, \frac{5}{161}\sqrt{730}e^{12}, \frac{15}{161}\sqrt{5}e^{14} - \frac{5}{161}\sqrt{335}e^{23},$ $\frac{5}{161}\sqrt{335}e^{13} + \frac{15}{161}\sqrt{5}e^{24}, \frac{10}{161}\sqrt{190}e^{35}$	$(-\frac{20}{161}, -\frac{20}{161}, \frac{15}{161}, \frac{15}{161}, \frac{85}{161}, -\frac{40}{161}, -\frac{5}{161}, -\frac{5}{161}, \frac{100}{161})$ $+\frac{5}{161}\sqrt{1370}e^5 \otimes e_6$	{123578, 12459, 134689, 167, 35, 45789, 123578, 12459, 134689, 167, 35, 45789}
94:22	$0, 0, 0, 0, 0, \frac{5}{161}\sqrt{730}e^{12}, \frac{15}{161}\sqrt{5}e^{14} + \frac{5}{161}\sqrt{335}e^{23},$ $\frac{5}{161}\sqrt{335}e^{13} + \frac{15}{161}\sqrt{5}e^{24}, \frac{10}{161}\sqrt{190}e^{35}$	$(-\frac{20}{161}, -\frac{20}{161}, \frac{15}{161}, \frac{15}{161}, \frac{85}{161}, -\frac{40}{161}, -\frac{5}{161}, -\frac{5}{161}, \frac{100}{161})$ $+\frac{5}{161}\sqrt{1370}e^5 \otimes e_6$	{123578, 12459, 134689, 167, 35, 45789, 123578, 12459, 134689, 167, 35, 45789}
94:22	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{2}e^{14} - \frac{2}{49}\sqrt{62}e^{23},$ $\frac{2}{49}\sqrt{62}e^{13} + \frac{2}{7}\sqrt{2}e^{24}, \frac{4}{49}\sqrt{43}e^{35}$	$(-\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, \frac{12}{49}, -\frac{16}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+\frac{20}{49}e^3 \otimes e_6 + \frac{4}{49}\sqrt{62}e^4 \otimes e_9$	{123789, 15679, 39, 123789, 15679, 39}
94:22	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{6}e^{12}, \frac{2}{7}\sqrt{2}e^{14} + \frac{2}{49}\sqrt{62}e^{23},$ $\frac{2}{49}\sqrt{62}e^{13} + \frac{2}{7}\sqrt{2}e^{24}, \frac{4}{49}\sqrt{43}e^{35}$	$(-\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, \frac{12}{49}, \frac{16}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+\frac{20}{49}e^3 \otimes e_6 + \frac{4}{49}\sqrt{62}e^4 \otimes e_9$	{123789, 15679, 39, 123789, 15679, 39}
94:22	$0, 0, 0, 0, 0, \frac{2}{657}\sqrt{38191}e^{12}, \frac{2}{657}\sqrt{38191}e^{14} - \frac{2}{657}\sqrt{36019}e^{23},$ $\frac{2}{657}\sqrt{14842}e^{13} + \frac{2}{657}\sqrt{12670}e^{24}, \frac{2}{657}\sqrt{46698}e^{35}$	$(\frac{17}{73}, \frac{17}{73}, -\frac{46}{657}, -\frac{46}{657}, \frac{163}{657}, \frac{34}{73}, \frac{107}{657}, \frac{107}{657}, -\frac{209}{657})$ $+\frac{2}{657}\sqrt{101722}e^1 \otimes e_9$	{12357, 1248, 13456, 1678, 2346789, 2569, 389, 4579, 12357, 1248, 13456, 1678, 2346789, 2569, 389, 4579}
94:22	$0, 0, 0, 0, 0, \frac{2}{657}\sqrt{38191}e^{12}, \frac{2}{657}\sqrt{38191}e^{14} + \frac{2}{657}\sqrt{36019}e^{23},$ $\frac{2}{657}\sqrt{14842}e^{13} + \frac{2}{657}\sqrt{12670}e^{24}, \frac{2}{657}\sqrt{46698}e^{35}$	$(\frac{17}{73}, \frac{17}{73}, -\frac{46}{657}, -\frac{46}{657}, \frac{163}{657}, \frac{34}{73}, \frac{107}{657}, \frac{107}{657}, -\frac{209}{657})$ $+\frac{2}{657}\sqrt{101722}e^1 \otimes e_9$	{12357, 1248, 13456, 1678, 2346789, 2569, 389, 4579, 12357, 1248, 13456, 1678, 2346789, 2569, 389, 4579}
94:22	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{26}e^{12}, \frac{13}{32}\sqrt{2}e^{14} - \frac{1}{32}\sqrt{247}e^{23},$ $\frac{1}{32}\sqrt{247}e^{13} + \frac{13}{32}\sqrt{2}e^{24}, \frac{1}{32}\sqrt{442}e^{35}$	$(\frac{3}{64}, \frac{3}{64}, \frac{3}{16}, \frac{3}{16}, -\frac{13}{32}, \frac{3}{32}, \frac{15}{64}, \frac{15}{64}, -\frac{7}{32})$ $+\frac{1}{16}\sqrt{182}e^4 \otimes e_9$	{1236789, 1246, 13458, 1579, 369, 4678, 1236789, 1246, 13458, 1579, 369, 4678}
94:22	$0, 0, 0, 0, 0, \frac{1}{32}\sqrt{26}e^{12}, \frac{13}{32}\sqrt{2}e^{14} + \frac{1}{32}\sqrt{247}e^{23},$ $\frac{1}{32}\sqrt{247}e^{13} + \frac{13}{32}\sqrt{2}e^{24}, \frac{1}{32}\sqrt{442}e^{35}$	$(\frac{3}{64}, \frac{3}{64}, \frac{3}{16}, \frac{3}{16}, -\frac{13}{32}, \frac{3}{32}, \frac{15}{64}, \frac{15}{64}, -\frac{7}{32})$ $+\frac{1}{16}\sqrt{182}e^4 \otimes e_9$	{1236789, 1246, 13458, 1579, 369, 4678, 1236789, 1246, 13458, 1579, 369, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:22	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{3}{82}\sqrt{154}e^{14} - \frac{1}{82}\sqrt{2046}e^{23},$ $\frac{1}{82}\sqrt{2046}e^{13} + \frac{3}{82}\sqrt{154}e^{24}, \frac{1}{41}\sqrt{561}e^{35}$	$(-\frac{8}{41}, -\frac{8}{41}, \frac{17}{41}, \frac{17}{41}, -\frac{2}{41}, -\frac{16}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^3 \otimes e_6$	{1235, 1239, 15689, 168, 3578, 3789, 1235, 1239, 15689, 168, 3578, 3789}
94:22	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{3}{82}\sqrt{154}e^{14} + \frac{1}{82}\sqrt{2046}e^{23},$ $\frac{1}{82}\sqrt{2046}e^{13} + \frac{3}{82}\sqrt{154}e^{24}, \frac{1}{41}\sqrt{561}e^{35}$	$(-\frac{8}{41}, -\frac{8}{41}, \frac{17}{41}, \frac{17}{41}, -\frac{2}{41}, -\frac{16}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^3 \otimes e_6$	{1235, 1239, 15689, 168, 3578, 3789, 1235, 1239, 15689, 168, 3578, 3789}
94:22	$0, 0, 0, 0, 0, \frac{10}{37}\sqrt{2}e^{12}, \frac{10}{37}\sqrt{2}e^{14} - \frac{5}{37}\sqrt{3}e^{23},$ $\frac{5}{37}\sqrt{3}e^{13} + \frac{10}{37}\sqrt{2}e^{24}, \frac{5}{37}e^{35}$	$(-\frac{5}{37}, -\frac{5}{37}, \frac{15}{37}, \frac{15}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, \frac{5}{37})$ $+ \frac{10}{37}\sqrt{7}e^3 \otimes e_5 + \frac{5}{37}\sqrt{37}e^4 \otimes e_6$	{12349, 13679, 34789, 12349, 13679, 34789}
94:22	$0, 0, 0, 0, 0, \frac{10}{37}\sqrt{2}e^{12}, \frac{10}{37}\sqrt{2}e^{14} + \frac{5}{37}\sqrt{3}e^{23},$ $\frac{5}{37}\sqrt{3}e^{13} + \frac{10}{37}\sqrt{2}e^{24}, \frac{5}{37}e^{35}$	$(-\frac{5}{37}, -\frac{5}{37}, \frac{15}{37}, \frac{15}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, \frac{5}{37})$ $+ \frac{10}{37}\sqrt{7}e^3 \otimes e_5 + \frac{5}{37}\sqrt{37}e^4 \otimes e_6$	{12349, 13679, 34789, 12349, 13679, 34789}
94:22	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{70}e^{12}, \frac{1}{126}\sqrt{406}e^{14} - \frac{1}{126}\sqrt{322}e^{23},$ $\frac{1}{126}\sqrt{574}e^{13} + \frac{1}{18}\sqrt{10}e^{24}, \frac{1}{63}\sqrt{273}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{63}\sqrt{357}e^3 \otimes e_6 + \frac{8}{63}\sqrt{7}e^1 \otimes e_9$	{12357, 1678, 2569, 389, 12357, 1678, 2569, 389}
94:22	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{70}e^{12}, \frac{1}{126}\sqrt{406}e^{14} + \frac{1}{126}\sqrt{322}e^{23},$ $\frac{1}{126}\sqrt{574}e^{13} + \frac{1}{18}\sqrt{10}e^{24}, \frac{1}{63}\sqrt{273}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{2}{9}, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9})$ $+ \frac{1}{63}\sqrt{357}e^3 \otimes e_6 + \frac{8}{63}\sqrt{7}e^1 \otimes e_9$	{12357, 1678, 2569, 389, 12357, 1678, 2569, 389}
94:22	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{6}{41}\sqrt{22}e^{14} - \frac{1}{41}\sqrt{627}e^{23},$ $\frac{1}{41}\sqrt{627}e^{13} + \frac{6}{41}\sqrt{22}e^{24}, \frac{1}{41}\sqrt{561}e^{35}$	$(-\frac{8}{41}, -\frac{8}{41}, \frac{17}{41}, \frac{17}{41}, -\frac{2}{41}, -\frac{16}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^4 \otimes e_6$	{124, 12459, 15679, 167, 45789, 478, 124, 12459, 15679, 167, 45789, 478}
94:22	$0, 0, 0, 0, 0, \frac{6}{41}\sqrt{22}e^{12}, \frac{6}{41}\sqrt{22}e^{14} + \frac{1}{41}\sqrt{627}e^{23},$ $\frac{1}{41}\sqrt{627}e^{13} + \frac{6}{41}\sqrt{22}e^{24}, \frac{1}{41}\sqrt{561}e^{35}$	$(-\frac{8}{41}, -\frac{8}{41}, \frac{17}{41}, \frac{17}{41}, -\frac{2}{41}, -\frac{16}{41}, \frac{9}{41}, \frac{9}{41}, \frac{15}{41})$ $+ \frac{3}{41}\sqrt{253}e^4 \otimes e_6$	{124, 12459, 15679, 167, 45789, 478, 124, 12459, 15679, 167, 45789, 478}
94:23	$0, 0, 0, 0, 0, \frac{39}{4109}\sqrt{1714}e^{12}, \frac{78}{4109}\sqrt{47}e^{13},$ $\frac{39}{4109}\sqrt{998}e^{15} + \frac{702}{4109}\sqrt{5}e^{24}, \frac{156}{4109}\sqrt{11}e^{14} + \frac{78}{4109}\sqrt{769}e^{35}$	$(\frac{117}{4109}, \frac{1209}{4109}, -\frac{975}{4109}, -\frac{429}{4109}, \frac{663}{4109}, \frac{1326}{4109}, -\frac{858}{4109}, \frac{780}{4109}, -\frac{312}{4109})$ $+ \frac{117}{4109}\sqrt{274}e^5 \otimes e_7 + \frac{39}{4109}\sqrt{4814}e^2 \otimes e_9$	{13679, 2678}
94:23	$0, 0, 0, 0, 0, \frac{6}{2453}\sqrt{61486}e^{12}, \frac{120}{2453}\sqrt{71}e^{13},$ $\frac{6}{2453}\sqrt{52043}e^{15} + \frac{18}{2453}\sqrt{5254}e^{24}, \frac{6}{2453}\sqrt{22862}e^{14} + \frac{48}{2453}\sqrt{1207}e^{35}$	$(\frac{288}{2453}, \frac{921}{2453}, -\frac{345}{2453}, -\frac{645}{2453}, -\frac{12}{2453}, \frac{1209}{2453}, -\frac{57}{2453}, \frac{276}{2453}, -\frac{357}{2453})$ $+ \frac{6}{2453}\sqrt{149810}e^2 \otimes e_9$	{124, 13679, 2678, 3489}
94:23	$0, 0, 0, 0, 0, \frac{34}{469}\sqrt{22}e^{12}, \frac{34}{469}\sqrt{22}e^{13}, \frac{17}{469}\sqrt{22}e^{15} + \frac{34}{469}\sqrt{33}e^{24},$ $\frac{17}{469}\sqrt{22}e^{14} + \frac{34}{469}\sqrt{33}e^{35}$	$(-\frac{51}{469}, -\frac{51}{469}, -\frac{51}{469}, \frac{187}{469}, \frac{187}{469}, -\frac{102}{469}, -\frac{102}{469}, \frac{136}{469}, \frac{136}{469})$ $+ \frac{17}{469}\sqrt{410}e^4 \otimes e_7 + \frac{17}{469}\sqrt{410}e^5 \otimes e_6$	{12345, 4589}
94:23	$0, 0, 0, 0, 0, \frac{34}{469}\sqrt{22}e^{12}, \frac{34}{469}\sqrt{22}e^{13}, \frac{17}{469}\sqrt{22}e^{15} + \frac{34}{469}\sqrt{33}e^{24},$ $\frac{17}{469}\sqrt{22}e^{14} + \frac{34}{469}\sqrt{33}e^{35}$	$(-\frac{51}{469}, -\frac{51}{469}, -\frac{51}{469}, \frac{187}{469}, \frac{187}{469}, -\frac{102}{469}, -\frac{102}{469}, \frac{136}{469}, \frac{136}{469})$ $+ \frac{17}{469}\sqrt{410}e^4 \otimes e_6 + \frac{17}{469}\sqrt{410}e^5 \otimes e_7$	{12345, 4589}
94:23	$0, 0, 0, 0, 0, \frac{36}{2453}\sqrt{2318}e^{12}, \frac{4}{2453}\sqrt{49837}e^{13},$ $\frac{2}{2453}\sqrt{525027}e^{15} + \frac{2}{2453}\sqrt{651358}e^{24}, \frac{4}{2453}\sqrt{165737}e^{14} + \frac{76}{2453}\sqrt{122}e^{35}$	$(-\frac{192}{2453}, -\frac{807}{2453}, \frac{423}{2453}, \frac{1319}{2453}, \frac{64}{2453}, -\frac{999}{2453}, \frac{21}{2453}, \frac{512}{2453}, \frac{1127}{2453})$ $+ \frac{10}{2453}\sqrt{95038}e^4 \otimes e_6$	{124, 13679, 2678, 3489}
94:23	$0, 0, 0, 0, 0, \frac{3}{28}\sqrt{2}e^{12}, \frac{3}{28}\sqrt{2}e^{13}, \frac{1}{28}\sqrt{15}e^{15} + \frac{1}{28}\sqrt{14}e^{24},$ $\frac{1}{28}\sqrt{15}e^{14} + \frac{1}{28}\sqrt{14}e^{35}$	$(-\frac{1}{28}, -\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{14}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56})$ $+ \frac{1}{28}\sqrt{26}e^2 \otimes e_7 - \frac{1}{28}\sqrt{26}e^3 \otimes e_6$	{12349, 1456789, 167}
94:23	$0, 0, 0, 0, 0, \frac{4}{39}\sqrt{6}e^{12}, \frac{1}{13}\sqrt{6}e^{13}, \frac{2}{39}\sqrt{3}e^{15} + \frac{1}{13}\sqrt{2}e^{24},$ $\frac{1}{39}\sqrt{6}e^{14} + \frac{1}{39}\sqrt{102}e^{35}$	$(-\frac{1}{39}, \frac{1}{13}, -\frac{5}{39}, \frac{1}{39}, \frac{5}{39}, \frac{2}{39}, -\frac{2}{13}, \frac{4}{39}, 0)$ $+ \frac{1}{39}\sqrt{102}e^5 \otimes e_6 + \frac{1}{39}\sqrt{114}e^2 \otimes e_9$	{123578, 579}
94:23	$0, 0, 0, 0, 0, \frac{17}{76}\sqrt{6}e^{12}, \frac{3}{38}\sqrt{85}e^{13}, \frac{1}{76}\sqrt{1887}e^{15} + \frac{2}{19}\sqrt{51}e^{24},$ $\frac{1}{76}\sqrt{1887}e^{14} + \frac{3}{38}\sqrt{17}e^{35}$	$(\frac{1}{76}, \frac{27}{76}, -\frac{25}{76}, -\frac{5}{152}, \frac{47}{152}, \frac{7}{19}, -\frac{6}{19}, \frac{49}{152}, -\frac{3}{152})$ $+ \frac{1}{76}\sqrt{6630}e^2 \otimes e_7$	{12349, 12358, 1456789, 167}
94:23	$0, 0, 0, 0, 0, \frac{2}{273}\sqrt{6}e^{12}, \frac{2}{273}\sqrt{318}e^{13}, \frac{2}{273}\sqrt{42}e^{15} + \frac{2}{273}\sqrt{366}e^{24},$ $\frac{2}{91}\sqrt{3}e^{14} + \frac{8}{91}e^{35}$	$(\frac{8}{273}, \frac{5}{91}, \frac{1}{273}, -\frac{20}{273}, -\frac{1}{21}, \frac{23}{273}, \frac{3}{91}, -\frac{5}{273}, -\frac{4}{91})$ $+ \frac{2}{273}\sqrt{354}e^2 \otimes e_7 + \frac{2}{273}\sqrt{402}e^3 \otimes e_8$	{12349, 1456789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:23	$0, 0, 0, 0, 0, \frac{2}{2357}\sqrt{461058e^{12}}, \frac{2}{2357}\sqrt{803382e^{13}},$ $\frac{2}{2357}\sqrt{352347e^{15}} + \frac{12}{2357}\sqrt{20303e^{24}}, \frac{4}{2357}\sqrt{109482e^{14}} + \frac{6}{2357}\sqrt{24158e^{35}}$	$(-\frac{248}{2357}, -\frac{43}{2357}, -\frac{453}{2357}, \frac{841}{2357}, \frac{1046}{2357}, -\frac{291}{2357}, -\frac{701}{2357}, \frac{798}{2357}, \frac{593}{2357})$ $+\frac{10}{2357}\sqrt{63222e^4} \otimes e_7$	{12346, 179, 2378, 4689}
94:23	$0, 0, 0, 0, 0, \frac{3}{994}\sqrt{1306e^{12}}, \frac{3}{497}\sqrt{149e^{13}}, \frac{15}{497}\sqrt{11e^{15}} + \frac{18}{497}\sqrt{7e^{24}},$ $\frac{3}{994}\sqrt{746e^{14}} + \frac{6}{497}\sqrt{70e^{35}}$	$(-\frac{9}{497}, \frac{12}{497}, -\frac{30}{497}, \frac{12}{497}, \frac{33}{497}, \frac{3}{497}, -\frac{39}{497}, \frac{24}{497}, \frac{3}{497})$ $+\frac{3}{994}\sqrt{2126e^2} \otimes e_9 + \frac{9}{994}\sqrt{174e^4} \otimes e_6$	{124, 13679, 2678, 3489}
94:23	$0, 0, 0, 0, 0, \frac{9}{469}\sqrt{86e^{12}}, \frac{9}{469}\sqrt{86e^{13}}, \frac{18}{469}\sqrt{21e^{15}} + \frac{18}{469}\sqrt{85e^{24}},$ $\frac{18}{469}\sqrt{21e^{14}} + \frac{18}{469}\sqrt{85e^{35}}$	$(\frac{45}{469}, \frac{45}{469}, \frac{45}{469}, -\frac{81}{469}, -\frac{81}{469}, \frac{90}{469}, \frac{90}{469}, -\frac{36}{469}, -\frac{36}{469})$ $+\frac{9}{469}\sqrt{422e^2} \otimes e_9 + \frac{9}{469}\sqrt{422e^3} \otimes e_8$	{1456789, 234567}
94:23	$0, 0, 0, 0, 0, \frac{3}{994}\sqrt{1306e^{12}}, \frac{3}{497}\sqrt{149e^{13}}, \frac{15}{497}\sqrt{11e^{15}} + \frac{18}{497}\sqrt{7e^{24}},$ $\frac{3}{994}\sqrt{746e^{14}} + \frac{6}{497}\sqrt{70e^{35}}$	$(-\frac{9}{497}, \frac{12}{497}, -\frac{30}{497}, \frac{12}{497}, \frac{33}{497}, \frac{3}{497}, -\frac{39}{497}, \frac{24}{497}, \frac{3}{497})$ $+\frac{3}{994}\sqrt{2126e^2} \otimes e_9 - \frac{9}{994}\sqrt{174e^4} \otimes e_6$	{124, 13679, 2678, 3489}
94:23	$0, 0, 0, 0, 0, \frac{3}{28}\sqrt{2e^{12}}, \frac{3}{28}\sqrt{2e^{13}}, \frac{1}{28}\sqrt{15e^{15}} + \frac{1}{28}\sqrt{14e^{24}},$ $\frac{1}{28}\sqrt{15e^{14}} + \frac{1}{28}\sqrt{14e^{35}}$	$(-\frac{1}{28}, -\frac{1}{28}, -\frac{1}{28}, \frac{5}{56}, \frac{5}{56}, -\frac{1}{14}, -\frac{1}{14}, \frac{3}{56}, \frac{3}{56})$ $+\frac{1}{28}\sqrt{26e^2} \otimes e_7 + \frac{1}{28}\sqrt{26e^3} \otimes e_6$	{12349, 1456789, 167}
94:23	$0, 0, 0, 0, 0, \frac{10}{91}\sqrt{10e^{12}}, \frac{40}{819}\sqrt{39e^{13}}, \frac{20}{819}\sqrt{194e^{15}} + \frac{10}{819}\sqrt{1122e^{24}},$ $\frac{20}{819}\sqrt{31e^{14}} + \frac{10}{819}\sqrt{190e^{35}}$	$(-\frac{20}{273}, \frac{10}{819}, \frac{10}{63}, \frac{50}{273}, \frac{220}{819}, -\frac{50}{819}, \frac{190}{819}, \frac{160}{819}, \frac{10}{91})$ $+\frac{10}{819}\sqrt{1678e^2} \otimes e_7 + \frac{20}{819}\sqrt{326e^4} \otimes e_6$	{12349, 167}
94:24	$0, 0, 0, 0, 0, \frac{22}{2989}\sqrt{31e^{12}}, \frac{22}{2989}\sqrt{970e^{13}},$ $\frac{22}{2989}\sqrt{754e^{14}} + \frac{11}{2989}\sqrt{2710e^{25}}, \frac{11}{2989}\sqrt{2770e^{23}} + \frac{66}{2989}\sqrt{77e^{45}}$	$(-\frac{275}{2989}, \frac{187}{2989}, \frac{33}{2989}, \frac{341}{2989}, -\frac{121}{2989}, -\frac{88}{2989}, -\frac{242}{2989}, \frac{66}{2989}, \frac{220}{2989})$ $+\frac{11}{61}\sqrt{2e^5} \otimes e_7 + \frac{33}{2989}\sqrt{82e^3} \otimes e_6$	{12359, 2456}
94:24	$0, 0, 0, 0, 0, \frac{13}{1505}\sqrt{331e^{12}}, \frac{78}{1505}\sqrt{19e^{13}},$ $\frac{26}{1505}\sqrt{131e^{14}} + \frac{13}{1505}\sqrt{557e^{25}}, \frac{13}{1505}\sqrt{103e^{23}} + \frac{26}{215}\sqrt{5e^{45}}$	$(\frac{104}{1505}, \frac{39}{301}, -\frac{52}{301}, \frac{13}{1505}, -\frac{78}{1505}, \frac{299}{1505}, -\frac{156}{1505}, \frac{117}{1505}, -\frac{13}{301})$ $+\frac{13}{1505}\sqrt{1263e^4} \otimes e_7 + \frac{26}{1505}\sqrt{370e^1} \otimes e_9$	{1678, 3579}
94:24	$0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42e^{12}}, \frac{3}{25}\sqrt{42e^{13}}, \frac{3}{25}\sqrt{14e^{14}} + \frac{1}{25}\sqrt{42e^{25}},$ $\frac{2}{25}\sqrt{42e^{23}} + \frac{3}{25}\sqrt{42e^{45}}$	$(-\frac{7}{25}, \frac{2}{5}, -\frac{1}{25}, \frac{13}{25}, -\frac{4}{25}, \frac{3}{25}, -\frac{8}{25}, \frac{6}{25}, \frac{9}{25})$ $+\frac{21}{25}\sqrt{2e^4} \otimes e_7$	{123469, 1345, 2458, 4689}
94:24	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{110e^{12}}, \frac{10}{119}\sqrt{6e^{13}}, \frac{6}{119}\sqrt{10e^{14}} + \frac{2}{119}\sqrt{195e^{25}},$ $\frac{2}{119}\sqrt{165e^{23}} + \frac{6}{119}\sqrt{15e^{45}}$	$(-\frac{1}{7}, \frac{4}{119}, \frac{11}{119}, \frac{18}{119}, -\frac{3}{119}, -\frac{13}{119}, -\frac{6}{119}, \frac{1}{119}, \frac{15}{119})$ $+\frac{10}{119}\sqrt{13e^3} \otimes e_8 + \frac{30}{119}e^2 \otimes e_7$	{1578, 3679}
94:24	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{19e^{12}}, \frac{2}{49}\sqrt{30e^{13}}, \frac{12}{49}e^{14} + \frac{2}{49}\sqrt{10e^{25}},$ $\frac{12}{49}e^{23} + \frac{2}{49}\sqrt{86e^{45}}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{102e^5} \otimes e_6 + \frac{4}{49}\sqrt{19e^1} \otimes e_9$	{136, 589}
94:24	$0, 0, 0, 0, 0, \frac{2}{2009}\sqrt{516570e^{12}}, \frac{6}{2009}\sqrt{48910e^{13}},$ $\frac{2}{2009}\sqrt{187935e^{14}} + \frac{4}{2009}\sqrt{38190e^{25}}, \frac{8}{2009}\sqrt{23115e^{23}} + \frac{30}{2009}\sqrt{469e^{45}}$	$(-\frac{421}{2009}, -\frac{386}{2009}, \frac{1203}{2009}, \frac{426}{2009}, \frac{391}{2009}, -\frac{807}{2009}, \frac{782}{2009}, \frac{5}{2009}, \frac{817}{2009})$ $+\frac{30}{2009}\sqrt{7437e^3} \otimes e_6$	{123, 123458, 2469, 25689}
94:24	$0, 0, 0, 0, 0, \frac{11}{287}\sqrt{131e^{12}}, \frac{11}{287}\sqrt{69e^{13}}, \frac{11}{287}\sqrt{213e^{14}} + \frac{11}{287}\sqrt{105e^{25}},$ $\frac{11}{287}\sqrt{177e^{23}} + \frac{66}{287}\sqrt{3e^{45}}$	$(-\frac{44}{287}, -\frac{44}{287}, \frac{110}{287}, \frac{33}{287}, \frac{33}{287}, -\frac{88}{287}, \frac{66}{287}, -\frac{11}{287}, \frac{66}{287})$ $+\frac{11}{287}\sqrt{403e^3} \otimes e_8 + \frac{66}{287}\sqrt{3e^4} \otimes e_6$	{126789, 3679}
94:24	$0, 0, 0, 0, 0, \frac{1}{133}\sqrt{93e^{12}}, \frac{1}{133}\sqrt{471e^{13}}, \frac{3}{133}\sqrt{29e^{14}} + \frac{3}{133}\sqrt{43e^{25}},$ $\frac{3}{133}\sqrt{29e^{23}} + \frac{6}{133}\sqrt{7e^{45}}$	$(-\frac{10}{133}, \frac{4}{133}, \frac{4}{133}, \frac{11}{133}, -\frac{3}{133}, -\frac{6}{133}, -\frac{6}{133}, \frac{1}{133}, \frac{8}{133})$ $+\frac{1}{133}\sqrt{177e^3} \otimes e_8 + \frac{2}{133}\sqrt{141e^5} \otimes e_7$	{123569, 5689}
94:24	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{5e^{12}}, \frac{1}{77}\sqrt{535e^{13}}, \frac{2}{77}\sqrt{105e^{14}} + \frac{20}{77}e^{25},$ $\frac{5}{77}\sqrt{17e^{23}} + \frac{9}{77}\sqrt{5e^{45}}$	$(-\frac{5}{77}, \frac{9}{77}, -\frac{5}{77}, \frac{9}{77}, -\frac{5}{77}, \frac{4}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{7}{77})$ $+\frac{1}{77}\sqrt{15e^4} \otimes e_6 + \frac{1}{77}\sqrt{695e^5} \otimes e_7$	{123569, 13458, 245, 5689}
94:24	$0, 0, 0, 0, 0, \frac{1}{77}\sqrt{5e^{12}}, \frac{1}{77}\sqrt{535e^{13}}, \frac{2}{77}\sqrt{105e^{14}} + \frac{20}{77}e^{25},$ $\frac{5}{77}\sqrt{17e^{23}} + \frac{9}{77}\sqrt{5e^{45}}$	$(-\frac{5}{77}, \frac{9}{77}, -\frac{5}{77}, \frac{9}{77}, -\frac{5}{77}, \frac{4}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{7}{77})$ $+\frac{1}{77}\sqrt{15e^4} \otimes e_6 - \frac{1}{77}\sqrt{695e^5} \otimes e_7$	{123569, 13458, 245, 5689}
94:24	$0, 0, 0, 0, 0, \frac{3}{679}\sqrt{114e^{12}}, \frac{24}{679}\sqrt{39e^{13}}, \frac{18}{97}e^{14} + \frac{3}{679}\sqrt{1626e^{25}},$ $\frac{18}{97}e^{23} + \frac{6}{679}\sqrt{498e^{45}}$	$(\frac{15}{679}, \frac{57}{679}, -\frac{69}{679}, \frac{15}{679}, -\frac{27}{679}, \frac{72}{679}, -\frac{54}{679}, \frac{30}{679}, -\frac{12}{679})$ $+\frac{3}{679}\sqrt{3138e^5} \otimes e_7 + \frac{3}{679}\sqrt{618e^1} \otimes e_9$	{134568, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:24	$0, 0, 0, 0, 0, \frac{2}{79}\sqrt{665}e^{12}, \frac{5}{79}\sqrt{42}e^{13}, \frac{1}{79}\sqrt{2590}e^{14} + \frac{4}{79}\sqrt{105}e^{25},$ $\frac{1}{79}\sqrt{2590}e^{23} + \frac{1}{79}\sqrt{3010}e^{45}$	$(-\frac{7}{79}, -\frac{16}{79}, \frac{31}{79}, \frac{3}{79}, \frac{12}{79}, -\frac{23}{79}, \frac{24}{79}, -\frac{4}{79}, \frac{15}{79})$ $+ \frac{70}{79}e^5 \otimes e_6$	{12359, 136, 268, 589}
94:24	$0, 0, 0, 0, 0, \frac{23}{1225}\sqrt{227}e^{12}, \frac{46}{1225}\sqrt{183}e^{13},$ $\frac{46}{1225}\sqrt{11}e^{14} + \frac{23}{1225}\sqrt{173}e^{25}, \frac{23}{1225}\sqrt{17}e^{23} + \frac{46}{1225}\sqrt{133}e^{45}$	$(-\frac{368}{1225}, \frac{23}{245}, \frac{276}{1225}, \frac{437}{1225}, -\frac{46}{1225}, -\frac{253}{1225}, -\frac{92}{1225}, \frac{69}{1225}, \frac{391}{1225})$ $+ \frac{299}{1225}\sqrt{7}e^4 \otimes e_7 + \frac{46}{245}\sqrt{10}e^3 \otimes e_6$	{12349, 24568}
94:24	$0, 0, 0, 0, 0, \frac{19}{1617}\sqrt{689}e^{12}, \frac{19}{1617}\sqrt{921}e^{13},$ $\frac{190}{1617}\sqrt{6}e^{14} + \frac{76}{1617}\sqrt{29}e^{25}, \frac{19}{1617}\sqrt{382}e^{23} + \frac{19}{1617}\sqrt{14}e^{45}$	$(-\frac{361}{1617}, \frac{57}{539}, \frac{57}{539}, \frac{437}{1617}, -\frac{95}{1617}, -\frac{190}{1617}, -\frac{190}{1617}, \frac{76}{1617}, \frac{114}{539})$ $- \frac{19}{1617}\sqrt{1357}e^3 \otimes e_6 + \frac{19}{1617}\sqrt{1589}e^2 \otimes e_7$	{145678, 167, 3479, 35789}
94:24	$0, 0, 0, 0, 0, \frac{2}{2021}\sqrt{267915}e^{12}, \frac{90}{2021}\sqrt{265}e^{13},$ $\frac{6}{2021}\sqrt{40015}e^{14} + \frac{52}{2021}\sqrt{795}e^{25}, \frac{8}{2021}\sqrt{5565}e^{23} + \frac{6}{2021}\sqrt{265}e^{45}$	$(-\frac{233}{2021}, \frac{896}{2021}, -\frac{461}{2021}, \frac{782}{2021}, -\frac{347}{2021}, \frac{663}{2021}, -\frac{694}{2021}, \frac{549}{2021}, \frac{435}{2021})$ $+ \frac{30}{2021}\sqrt{5989}e^2 \otimes e_7$	{12348, 1235, 24569, 2689}
94:24	$0, 0, 0, 0, 0, \frac{2}{683}\sqrt{35905}e^{12}, \frac{2}{683}\sqrt{16770}e^{13},$ $\frac{2}{683}\sqrt{30315}e^{14} + \frac{2}{683}\sqrt{38270}e^{25}, \frac{2}{683}\sqrt{30315}e^{23} + \frac{2}{683}\sqrt{41495}e^{45}$	$(\frac{297}{683}, -\frac{22}{683}, -\frac{111}{683}, -\frac{226}{683}, \frac{93}{683}, \frac{275}{683}, \frac{186}{683}, \frac{71}{683}, -\frac{133}{683})$ $+ \frac{10}{683}\sqrt{4945}e^1 \otimes e_9$	{14567, 1678, 34789, 3579}
94:24	$0, 0, 0, 0, 0, \frac{2}{119}\sqrt{215}e^{12}, \frac{10}{119}\sqrt{6}e^{13}, \frac{2}{119}\sqrt{235}e^{14} + \frac{2}{119}\sqrt{195}e^{25},$ $\frac{8}{119}\sqrt{10}e^{23} + \frac{2}{119}\sqrt{190}e^{45}$	$(-\frac{1}{7}, \frac{4}{119}, \frac{11}{119}, \frac{18}{119}, -\frac{3}{119}, -\frac{13}{119}, -\frac{6}{119}, \frac{1}{119}, \frac{15}{119})$ $+ \frac{10}{119}\sqrt{13}e^5 \otimes e_6 + \frac{10}{119}e^2 \otimes e_7$	{12359, 268}
94:24	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{202}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{15}e^{14} + \frac{2}{49}\sqrt{41}e^{25},$ $\frac{9}{49}\sqrt{2}e^{23} + \frac{2}{49}\sqrt{35}e^{45}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{406}e^1 \otimes e_9 - \frac{3}{49}\sqrt{34}e^3 \otimes e_6$	{14567, 1678, 34789, 3579}
94:24	$0, 0, 0, 0, 0, \frac{20}{613}\sqrt{2}e^{12}, \frac{4}{613}\sqrt{2185}e^{13}, \frac{8}{613}\sqrt{430}e^{14} + \frac{4}{613}\sqrt{1645}e^{25},$ $\frac{8}{613}\sqrt{430}e^{23} + \frac{72}{613}\sqrt{5}e^{45}$	$(-\frac{35}{613}, \frac{73}{613}, -\frac{45}{613}, \frac{68}{613}, -\frac{40}{613}, \frac{38}{613}, -\frac{80}{613}, \frac{33}{613}, \frac{28}{613})$ $+ \frac{20}{613}\sqrt{113}e^5 \otimes e_7$	{123569, 13458, 245, 5689}
94:24	$0, 0, 0, 0, 0, \frac{68}{1169}\sqrt{31}e^{12}, \frac{17}{1169}\sqrt{501}e^{13},$ $\frac{17}{1169}\sqrt{10}e^{14} + \frac{17}{1169}\sqrt{10}e^{25}, \frac{17}{1169}\sqrt{329}e^{23} + \frac{34}{1169}\sqrt{86}e^{45}$	$(\frac{187}{1169}, \frac{187}{1169}, -\frac{289}{1169}, -\frac{51}{1169}, -\frac{51}{1169}, \frac{374}{1169}, -\frac{102}{1169}, \frac{136}{1169}, -\frac{102}{1169})$ $+ \frac{17}{1169}\sqrt{1129}e^1 \otimes e_9 - \frac{17}{1169}\sqrt{957}e^2 \otimes e_7$	{12345, 1238, 24689, 2569}
94:24	$0, 0, 0, 0, 0, \frac{68}{1169}\sqrt{31}e^{12}, \frac{17}{1169}\sqrt{501}e^{13},$ $\frac{17}{1169}\sqrt{10}e^{14} + \frac{17}{1169}\sqrt{10}e^{25}, \frac{17}{1169}\sqrt{329}e^{23} + \frac{34}{1169}\sqrt{86}e^{45}$	$(\frac{187}{1169}, \frac{187}{1169}, -\frac{289}{1169}, -\frac{51}{1169}, -\frac{51}{1169}, \frac{374}{1169}, -\frac{102}{1169}, \frac{136}{1169}, -\frac{102}{1169})$ $+ \frac{17}{1169}\sqrt{1129}e^1 \otimes e_9 + \frac{17}{1169}\sqrt{957}e^2 \otimes e_7$	{12345, 1238, 24689, 2569}
94:24	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{1}{35}\sqrt{154}e^{14} + \frac{2}{35}\sqrt{21}e^{25},$ $\frac{1}{5}\sqrt{2}e^{23} + \frac{1}{35}\sqrt{42}e^{45}$	$(-\frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $- \frac{2}{35}\sqrt{42}e^4 \otimes e_7 + \frac{2}{35}\sqrt{70}e^3 \otimes e_8$	{126789, 1578, 2357, 3679}
94:24	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{3}{35}\sqrt{14}e^{13}, \frac{1}{35}\sqrt{154}e^{14} + \frac{2}{35}\sqrt{21}e^{25},$ $\frac{1}{5}\sqrt{2}e^{23} + \frac{1}{35}\sqrt{42}e^{45}$	$(-\frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $+ \frac{2}{35}\sqrt{42}e^4 \otimes e_7 + \frac{2}{35}\sqrt{70}e^3 \otimes e_8$	{126789, 1578, 2357, 3679}
94:24	$0, 0, 0, 0, 0, \frac{2}{125}\sqrt{22}e^{12}, \frac{1}{125}\sqrt{6}e^{13}, \frac{2}{125}\sqrt{13}e^{14} + \frac{1}{125}\sqrt{74}e^{25},$ $\frac{1}{125}\sqrt{14}e^{23} + \frac{1}{125}\sqrt{86}e^{45}$	$(\frac{1}{125}, -\frac{1}{25}, \frac{1}{25}, -\frac{3}{125}, \frac{3}{125}, -\frac{4}{125}, \frac{6}{125}, -\frac{2}{125}, 0)$ $+ \frac{1}{125}\sqrt{114}e^4 \otimes e_6 + \frac{1}{125}\sqrt{118}e^1 \otimes e_9$	{168, 3489}
94:24	$0, 0, 0, 0, 0, \frac{666}{3101}\sqrt{6}e^{12}, \frac{74}{3101}\sqrt{131}e^{13}, \frac{296}{3101}e^{14} + \frac{37}{3101}\sqrt{102}e^{25},$ $\frac{296}{3101}\sqrt{3}e^{23} + \frac{37}{3101}\sqrt{1266}e^{45}$	$(-\frac{851}{3101}, \frac{703}{3101}, \frac{185}{3101}, \frac{1221}{3101}, -\frac{333}{3101}, -\frac{148}{3101}, -\frac{666}{3101}, \frac{370}{3101}, \frac{888}{3101})$ $+ \frac{37}{3101}\sqrt{2558}e^2 \otimes e_7 + \frac{37}{3101}\sqrt{2942}e^4 \otimes e_6$	{123489, 268}
94:24	$0, 0, 0, 0, 0, \frac{19}{1617}\sqrt{689}e^{12}, \frac{19}{1617}\sqrt{921}e^{13},$ $\frac{190}{1617}\sqrt{6}e^{14} + \frac{76}{1617}\sqrt{29}e^{25}, \frac{19}{1617}\sqrt{382}e^{23} + \frac{19}{1617}\sqrt{14}e^{45}$	$(-\frac{361}{1617}, \frac{57}{539}, \frac{57}{539}, \frac{437}{1617}, -\frac{95}{1617}, -\frac{190}{1617}, -\frac{190}{1617}, \frac{76}{1617}, \frac{114}{539})$ $+ \frac{19}{1617}\sqrt{1357}e^3 \otimes e_6 + \frac{19}{1617}\sqrt{1589}e^2 \otimes e_7$	{145678, 167, 3479, 35789}
94:24	$0, 0, 0, 0, 0, \frac{10}{1931}\sqrt{23046}e^{12}, \frac{12}{1931}\sqrt{4715}e^{13},$ $\frac{4}{1931}\sqrt{62445}e^{14} + \frac{2}{1931}\sqrt{342930}e^{25}, \frac{2}{1931}\sqrt{133170}e^{23} + \frac{6}{1931}\sqrt{57730}e^{45}$	$(-\frac{685}{1931}, \frac{121}{1931}, \frac{705}{1931}, \frac{816}{1931}, \frac{10}{1931}, -\frac{564}{1931}, \frac{20}{1931}, \frac{131}{1931}, \frac{826}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^4 \otimes e_6$	{123479, 13678, 267, 4789}
94:24	$0, 0, 0, 0, 0, \frac{8}{79}\sqrt{35}e^{12}, \frac{5}{79}\sqrt{42}e^{13}, \frac{1}{79}\sqrt{2310}e^{14} + \frac{4}{79}\sqrt{105}e^{25},$ $\frac{1}{79}\sqrt{2310}e^{23} + \frac{3}{79}\sqrt{210}e^{45}$	$(-\frac{7}{79}, -\frac{16}{79}, \frac{31}{79}, \frac{3}{79}, \frac{12}{79}, -\frac{23}{79}, \frac{24}{79}, -\frac{4}{79}, \frac{15}{79})$ $+ \frac{70}{79}e^3 \otimes e_8$	{126789, 1578, 2357, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:24	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{202}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{15}e^{14} + \frac{2}{49}\sqrt{41}e^{25},$ $\frac{9}{49}\sqrt{2}e^{23} + \frac{2}{49}\sqrt{35}e^{45}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{1}{49}\sqrt{406}e^1 \otimes e_9 + \frac{3}{49}\sqrt{34}e^3 \otimes e_6$	{14567, 1678, 34789, 3579}
94:24	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{26}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}\sqrt{66}e^{14} + \frac{2}{49}\sqrt{10}e^{25},$ $\frac{2}{49}\sqrt{66}e^{23} + \frac{8}{49}e^{45}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{102}e^3 \otimes e_8 + \frac{4}{49}\sqrt{19}e^1 \otimes e_9$	{1578, 3679}
94:25	$0, 0, 0, 0, 0, \frac{33}{5509}\sqrt{482}e^{12}, \frac{11}{5509}\sqrt{94}e^{13},$ $\frac{44}{5509}\sqrt{123}e^{14} + \frac{33}{5509}\sqrt{366}e^{25}, \frac{264}{5509}e^{24} + \frac{11}{5509}\sqrt{4994}e^{35}$	$(\frac{33}{5509}, \frac{187}{5509}, \frac{341}{5509}, -\frac{275}{5509}, -\frac{429}{5509}, \frac{220}{5509}, \frac{374}{5509}, -\frac{242}{5509}, -\frac{88}{5509})$ $+ \frac{22}{5509}\sqrt{1185}e^3 \otimes e_6 + \frac{66}{5509}\sqrt{151}e^1 \otimes e_9$	{123578, 2456789}
94:25	$0, 0, 0, 0, 0, \frac{23}{3941}\sqrt{218}e^{12}, \frac{23}{3941}\sqrt{2074}e^{13},$ $\frac{46}{3941}\sqrt{393}e^{14} + \frac{23}{3941}\sqrt{1146}e^{25}, \frac{46}{3941}\sqrt{614}e^{24} + \frac{69}{3941}\sqrt{34}e^{35}$	$(\frac{437}{3941}, -\frac{207}{3941}, -\frac{851}{3941}, \frac{115}{3941}, \frac{759}{3941}, \frac{230}{3941}, -\frac{414}{3941}, \frac{552}{3941}, -\frac{92}{3941})$ $+ \frac{46}{3941}\sqrt{895}e^4 \otimes e_7 + \frac{46}{3941}\sqrt{906}e^1 \otimes e_9$	{178, 2379}
94:25	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{5}e^{12}, \frac{1}{203}\sqrt{406}e^{13}, \frac{2}{29}\sqrt{5}e^{14} + \frac{1}{203}\sqrt{994}e^{25},$ $\frac{1}{203}\sqrt{322}e^{24} + \frac{1}{203}\sqrt{910}e^{35}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{1190}e^4 \otimes e_6 + \frac{1}{203}\sqrt{1442}e^1 \otimes e_9$	{124, 168, 2369, 3489}
94:25	$0, 0, 0, 0, 0, \frac{5}{119}\sqrt{42}e^{12}, \frac{1}{119}\sqrt{2030}e^{13}, \frac{2}{119}\sqrt{210}e^{14} + \frac{5}{119}\sqrt{42}e^{25},$ $\frac{2}{119}\sqrt{210}e^{24} + \frac{1}{119}\sqrt{2030}e^{35}$	$(-\frac{3}{17}, -\frac{1}{17}, \frac{1}{17}, \frac{5}{17}, \frac{3}{17}, -\frac{4}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{1}{17})$ $+ \frac{6}{119}\sqrt{105}e^3 \otimes e_6 + \frac{6}{119}\sqrt{105}e^5 \otimes e_7$	{1235, 24569}
94:25	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{29393}e^{12}, \frac{12}{215}\sqrt{133}e^{13},$ $\frac{1}{215}\sqrt{4389}e^{14} + \frac{1}{215}\sqrt{4389}e^{25}, \frac{1}{215}\sqrt{20615}e^{24} + \frac{2}{215}\sqrt{7714}e^{35}$	$(-\frac{28}{215}, -\frac{9}{86}, -\frac{17}{215}, \frac{88}{215}, \frac{33}{86}, -\frac{101}{430}, -\frac{9}{43}, \frac{12}{43}, \frac{131}{430})$ $+ \frac{2}{215}\sqrt{12502}e^5 \otimes e_6$	{12459, 146, 234689, 3458}
94:25	$0, 0, 0, 0, 0, \frac{1}{92}\sqrt{3021}e^{12}, \frac{1}{92}\sqrt{106}e^{13}, \frac{1}{92}\sqrt{3021}e^{14} + \frac{1}{46}\sqrt{795}e^{25},$ $\frac{3}{92}\sqrt{106}e^{24} + \frac{1}{46}\sqrt{1007}e^{35}$	$(\frac{9}{23}, \frac{13}{184}, -\frac{1}{4}, -\frac{47}{184}, \frac{3}{46}, \frac{85}{184}, \frac{13}{92}, \frac{25}{184}, -\frac{17}{92})$ $+ \frac{1}{46}\sqrt{2067}e^1 \otimes e_9$	{124, 168, 2369, 3489}
94:25	$0, 0, 0, 0, 0, \frac{34}{469}\sqrt{11}e^{12}, \frac{34}{469}\sqrt{33}e^{13}, \frac{34}{469}\sqrt{11}e^{14} + \frac{17}{469}\sqrt{110}e^{25},$ $\frac{17}{469}\sqrt{66}e^{24} + \frac{34}{469}\sqrt{22}e^{35}$	$(-\frac{51}{469}, -\frac{51}{469}, -\frac{51}{469}, \frac{187}{469}, \frac{187}{469}, -\frac{102}{469}, -\frac{102}{469}, \frac{136}{469}, \frac{136}{469})$ $+ \frac{17}{469}\sqrt{366}e^4 \otimes e_6 + \frac{17}{469}\sqrt{454}e^5 \otimes e_7$	{12345, 13568, 2569, 4589}
94:25	$0, 0, 0, 0, 0, \frac{34}{469}\sqrt{11}e^{12}, \frac{34}{469}\sqrt{33}e^{13}, \frac{34}{469}\sqrt{11}e^{14} + \frac{17}{469}\sqrt{110}e^{25},$ $\frac{17}{469}\sqrt{66}e^{24} + \frac{34}{469}\sqrt{22}e^{35}$	$(-\frac{51}{469}, -\frac{51}{469}, -\frac{51}{469}, \frac{187}{469}, \frac{187}{469}, -\frac{102}{469}, -\frac{102}{469}, \frac{136}{469}, \frac{136}{469})$ $+ \frac{17}{469}\sqrt{366}e^4 \otimes e_6 - \frac{17}{469}\sqrt{454}e^5 \otimes e_7$	{12345, 13568, 2569, 4589}
94:25	$0, 0, 0, 0, 0, \frac{5}{2093}\sqrt{534}e^{12}, \frac{15}{2093}\sqrt{318}e^{13},$ $\frac{10}{2093}\sqrt{461}e^{14} + \frac{5}{2093}\sqrt{2226}e^{25}, \frac{30}{2093}\sqrt{53}e^{24} + \frac{5}{2093}\sqrt{2022}e^{35}$	$(-\frac{95}{2093}, -\frac{25}{2093}, \frac{45}{2093}, \frac{5}{91}, \frac{45}{2093}, -\frac{120}{2093}, -\frac{50}{2093}, \frac{20}{2093}, \frac{90}{2093})$ $+ \frac{10}{2093}\sqrt{159}e^3 \otimes e_8 + \frac{10}{2093}\sqrt{814}e^2 \otimes e_7$	{123569, 289}
94:25	$0, 0, 0, 0, 0, \frac{1}{148}\sqrt{6555}e^{12}, \frac{1}{148}\sqrt{15410}e^{13}, \frac{1}{148}\sqrt{6555}e^{14} + \frac{1}{74}\sqrt{3795}e^{25},$ $\frac{1}{148}\sqrt{690}e^{24} + \frac{1}{74}\sqrt{230}e^{35}$	$(\frac{3}{37}, -\frac{1}{8}, -\frac{49}{148}, \frac{95}{296}, \frac{39}{74}, -\frac{13}{296}, -\frac{1}{4}, \frac{119}{296}, \frac{29}{148})$ $+ \frac{3}{74}\sqrt{805}e^5 \otimes e_7$	{124678, 17, 23789, 34679}
94:25	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{5}e^{12}, \frac{1}{203}\sqrt{406}e^{13}, \frac{2}{29}\sqrt{5}e^{14} + \frac{1}{203}\sqrt{994}e^{25},$ $\frac{1}{203}\sqrt{322}e^{24} + \frac{1}{203}\sqrt{910}e^{35}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $- \frac{1}{203}\sqrt{1190}e^4 \otimes e_6 + \frac{1}{203}\sqrt{1442}e^1 \otimes e_9$	{124, 168, 2369, 3489}
94:25	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{462}e^{12}, \frac{1}{203}\sqrt{2478}e^{13}, \frac{4}{203}\sqrt{119}e^{14} + \frac{3}{203}\sqrt{210}e^{25},$ $\frac{6}{29}e^{24} + \frac{1}{203}\sqrt{1974}e^{35}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{2}{203}\sqrt{721}e^2 \otimes e_7 + \frac{6}{203}\sqrt{7}e^4 \otimes e_6$	{123468, 289}
94:25	$0, 0, 0, 0, 0, \frac{1}{440}\sqrt{116967}e^{12}, \frac{1}{440}\sqrt{81534}e^{13},$ $\frac{1}{440}\sqrt{116967}e^{14} + \frac{127}{440}\sqrt{6}e^{25}, \frac{3}{220}\sqrt{1270}e^{24} + \frac{1}{110}\sqrt{3810}e^{35}$	$(-\frac{67}{220}, -\frac{41}{880}, \frac{93}{440}, \frac{453}{880}, \frac{113}{440}, \frac{309}{880}, -\frac{41}{440}, \frac{37}{176}, \frac{103}{220})$ $+ \frac{1}{220}\sqrt{71247}e^4 \otimes e_6$	{124, 168, 2369, 3489}
94:25	$0, 0, 0, 0, 0, \frac{31}{2149}\sqrt{110}e^{12}, \frac{31}{2149}\sqrt{1410}e^{13},$ $\frac{186}{2149}\sqrt{6}e^{14} + \frac{31}{2149}\sqrt{182}e^{25}, \frac{62}{2149}\sqrt{235}e^{24} + \frac{31}{2149}\sqrt{38}e^{35}$	$(-\frac{527}{2149}, -\frac{93}{2149}, \frac{341}{2149}, \frac{775}{2149}, \frac{341}{2149}, -\frac{620}{2149}, -\frac{186}{2149}, \frac{248}{2149}, \frac{682}{2149})$ $+ \frac{62}{2149}\sqrt{398}e^3 \otimes e_6 + \frac{62}{2149}\sqrt{561}e^4 \otimes e_7$	{13459, 4689}
94:25	$0, 0, 0, 0, 0, \frac{3}{749}\sqrt{442}e^{12}, \frac{3}{749}\sqrt{1622}e^{13}, \frac{12}{749}\sqrt{71}e^{14} + \frac{3}{749}\sqrt{1074}e^{25},$ $\frac{12}{749}\sqrt{79}e^{24} + \frac{3}{749}\sqrt{1410}e^{35}$	$(\frac{33}{749}, -\frac{9}{749}, -\frac{51}{749}, -\frac{9}{749}, \frac{33}{749}, \frac{24}{749}, -\frac{18}{749}, \frac{24}{749}, -\frac{18}{749})$ $+ \frac{6}{749}\sqrt{442}e^2 \otimes e_7 + \frac{6}{749}\sqrt{95}e^5 \otimes e_6$	{123569, 289}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:25	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{2}{5}e^{13}, \frac{2}{35}\sqrt{21}e^{14} + \frac{2}{35}\sqrt{21}e^{25},$ $\frac{1}{5}\sqrt{2}e^{24} + \frac{1}{35}\sqrt{42}e^{35}$	$(-\frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $+ \frac{1}{35}\sqrt{210}e^3 \otimes e_8 + \frac{1}{35}\sqrt{238}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
94:25	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{35}e^{12}, \frac{2}{5}e^{13}, \frac{2}{35}\sqrt{21}e^{14} + \frac{2}{35}\sqrt{21}e^{25},$ $\frac{1}{5}\sqrt{2}e^{24} + \frac{1}{35}\sqrt{42}e^{35}$	$(-\frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $+ \frac{1}{35}\sqrt{210}e^3 \otimes e_8 - \frac{1}{35}\sqrt{238}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
94:25	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{210}e^{12}, \frac{1}{203}\sqrt{1974}e^{13}, \frac{10}{203}\sqrt{14}e^{14} + \frac{3}{203}\sqrt{154}e^{25},$ $\frac{6}{203}\sqrt{42}e^{24} + \frac{1}{29}\sqrt{30}e^{35}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{2}{203}\sqrt{595}e^2 \otimes e_7 + \frac{6}{203}\sqrt{7}e^1 \otimes e_9$	{123468, 289}
94:25	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{20615}e^{12}, \frac{2}{215}\sqrt{7714}e^{13},$ $\frac{1}{215}\sqrt{4389}e^{14} + \frac{1}{215}\sqrt{4389}e^{25}, \frac{1}{215}\sqrt{29393}e^{24} + \frac{12}{215}\sqrt{133}e^{35}$	$(-\frac{28}{215}, -\frac{9}{86}, -\frac{17}{215}, \frac{88}{215}, \frac{33}{86}, -\frac{101}{430}, -\frac{9}{43}, \frac{12}{43}, \frac{131}{430})$ $+ \frac{2}{215}\sqrt{12502}e^4 \otimes e_7$	{126789, 1578, 23579, 367}
94:25	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{102}e^{12}, \frac{1}{206}\sqrt{2703}e^{13}, \frac{1}{412}\sqrt{8126}e^{14} + \frac{3}{412}\sqrt{901}e^{25},$ $\frac{3}{412}\sqrt{901}e^{24} + \frac{17}{412}\sqrt{30}e^{35}$	$(-\frac{1}{412}, -\frac{17}{412}, -\frac{33}{412}, \frac{61}{824}, \frac{93}{824}, -\frac{9}{206}, -\frac{17}{206}, \frac{59}{824}, \frac{27}{824})$ $+ \frac{1}{206}\sqrt{3247}e^2 \otimes e_7$	{123468, 123569, 245, 289}
94:25	$0, 0, 0, 0, 0, \frac{23}{227}\sqrt{21}e^{12}, \frac{10}{227}\sqrt{161}e^{13},$ $\frac{1}{227}\sqrt{19803}e^{14} + \frac{1}{227}\sqrt{19803}e^{25}, \frac{23}{227}\sqrt{21}e^{24} + \frac{10}{227}\sqrt{161}e^{35}$	$(-\frac{42}{227}, \frac{85}{454}, \frac{127}{227}, \frac{8}{227}, -\frac{153}{454}, \frac{1}{454}, \frac{85}{227}, -\frac{34}{227}, \frac{101}{454})$ $+ \frac{8}{227}\sqrt{966}e^3 \otimes e_8$	{12678, 15789, 2357, 3679}
94:25	$0, 0, 0, 0, 0, \frac{943}{3941}\sqrt{2}e^{12}, \frac{23}{3941}\sqrt{1506}e^{13},$ $\frac{46}{3941}\sqrt{393}e^{14} + \frac{23}{3941}\sqrt{1146}e^{25}, \frac{46}{3941}\sqrt{281}e^{24} + \frac{23}{3941}\sqrt{3886}e^{35}$	$(\frac{437}{3941}, -\frac{207}{3941}, -\frac{851}{3941}, \frac{115}{3941}, \frac{759}{3941}, \frac{230}{3941}, -\frac{414}{3941}, \frac{552}{3941}, -\frac{92}{3941})$ $+ \frac{46}{3941}\sqrt{895}e^5 \otimes e_6 + \frac{46}{3941}\sqrt{906}e^1 \otimes e_9$	{123578, 579}
94:25	$0, 0, 0, 0, 0, \frac{1}{74}\sqrt{3795}e^{12}, \frac{1}{74}\sqrt{230}e^{13}, \frac{1}{148}\sqrt{690}e^{14} + \frac{1}{148}\sqrt{6555}e^{25},$ $\frac{1}{148}\sqrt{6555}e^{24} + \frac{1}{148}\sqrt{15410}e^{35}$	$(-\frac{51}{148}, \frac{13}{148}, \frac{77}{148}, \frac{95}{296}, -\frac{33}{296}, -\frac{19}{74}, \frac{13}{74}, -\frac{7}{296}, \frac{121}{296})$ $+ \frac{3}{74}\sqrt{805}e^3 \otimes e_6$	{12349, 12358, 245689, 26}
94:25	$0, 0, 0, 0, 0, \frac{9}{469}\sqrt{86}e^{12}, \frac{9}{469}\sqrt{86}e^{13}, \frac{12}{469}\sqrt{159}e^{14} + \frac{3}{469}\sqrt{498}e^{25},$ $\frac{12}{469}\sqrt{15}e^{24} + \frac{3}{469}\sqrt{2802}e^{35}$	$(\frac{45}{469}, \frac{45}{469}, \frac{45}{469}, -\frac{81}{469}, -\frac{81}{469}, \frac{90}{469}, \frac{90}{469}, -\frac{36}{469}, -\frac{36}{469})$ $+ \frac{6}{469}\sqrt{885}e^3 \otimes e_8 + \frac{78}{469}\sqrt{6}e^1 \otimes e_9$	{13456, 245689}
94:25	$0, 0, 0, 0, 0, \frac{37}{3101}\sqrt{422}e^{12}, \frac{37}{3101}\sqrt{38}e^{13},$ $\frac{666}{3101}\sqrt{6}e^{14} + \frac{37}{3101}\sqrt{102}e^{25}, \frac{296}{3101}\sqrt{3}e^{24} + \frac{37}{3101}\sqrt{1266}e^{35}$	$(-\frac{851}{3101}, \frac{185}{3101}, \frac{1221}{3101}, \frac{703}{3101}, -\frac{333}{3101}, -\frac{666}{3101}, \frac{370}{3101}, -\frac{148}{3101}, \frac{888}{3101})$ $+ \frac{74}{3101}\sqrt{614}e^4 \otimes e_6 + \frac{74}{3101}\sqrt{761}e^3 \otimes e_8$	{156789, 23567}
94:25	$0, 0, 0, 0, 0, \frac{19}{5677}\sqrt{2274}e^{12}, \frac{95}{5677}\sqrt{158}e^{13},$ $\frac{38}{5677}\sqrt{102}e^{14} + \frac{19}{5677}\sqrt{4278}e^{25}, \frac{38}{5677}\sqrt{246}e^{24} + \frac{19}{5677}\sqrt{1370}e^{35}$	$(-\frac{627}{5677}, -\frac{95}{5677}, \frac{437}{5677}, \frac{703}{5677}, \frac{171}{5677}, -\frac{722}{5677}, -\frac{190}{5677}, \frac{76}{5677}, \frac{608}{5677})$ $+ \frac{114}{5677}\sqrt{149}e^3 \otimes e_8 + \frac{38}{5677}\sqrt{1290}e^5 \otimes e_7$	{12678, 3679}
94:26	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{58}e^{13}, \frac{2}{49}\sqrt{62}e^{24} + \frac{2}{49}\sqrt{6}e^{35},$ $-\frac{2}{49}\sqrt{14}e^{23} + \frac{4}{49}\sqrt{3}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{94}e^1 \otimes e_8 + \frac{4}{49}\sqrt{21}e^2 \otimes e_7$	{123459, 1679, 2568, 3478, 123459, 1679, 2568, 3478}
94:26	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{58}e^{13}, \frac{2}{49}\sqrt{62}e^{24} + \frac{2}{49}\sqrt{6}e^{35},$ $\frac{2}{49}\sqrt{14}e^{23} + \frac{4}{49}\sqrt{3}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{94}e^1 \otimes e_8 + \frac{4}{49}\sqrt{21}e^2 \otimes e_7$	{123459, 1679, 2568, 3478, 123459, 1679, 2568, 3478}
94:26	$0, 0, 0, 0, 0, \frac{20}{91}\sqrt{3}e^{12}, \frac{10}{91}\sqrt{29}e^{13}, \frac{5}{91}\sqrt{93}e^{24} + \frac{5}{91}\sqrt{71}e^{35},$ $-\frac{5}{91}\sqrt{47}e^{23} + \frac{5}{91}\sqrt{69}e^{45}$	$(-\frac{25}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{15}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91})$ $+ \frac{10}{91}\sqrt{41}e^4 \otimes e_7$	{123469, 12678, 13458, 1579, 235789, 245, 367, 4689, 123469, 12678, 13458, 1579, 235789, 245, 367, 4689}
94:26	$0, 0, 0, 0, 0, \frac{20}{91}\sqrt{3}e^{12}, \frac{10}{91}\sqrt{29}e^{13}, \frac{5}{91}\sqrt{93}e^{24} + \frac{5}{91}\sqrt{71}e^{35},$ $\frac{5}{91}\sqrt{47}e^{23} + \frac{5}{91}\sqrt{69}e^{45}$	$(-\frac{25}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{15}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91})$ $+ \frac{10}{91}\sqrt{41}e^4 \otimes e_7$	{123469, 12678, 13458, 1579, 235789, 245, 367, 4689, 123469, 12678, 13458, 1579, 235789, 245, 367, 4689}
94:26	$0, 0, 0, 0, 0, \frac{20}{49}\sqrt{2}e^{12}, \frac{20}{49}\sqrt{2}e^{13}, \frac{4}{49}\sqrt{31}e^{24} + \frac{4}{49}\sqrt{31}e^{35},$ $-\frac{12}{49}\sqrt{3}e^{23} + \frac{4}{49}\sqrt{77}e^{45}$	$(\frac{24}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{8}{49}, -\frac{8}{49})$ $+ \frac{4}{49}\sqrt{166}e^1 \otimes e_9$	{123, 123458, 14567, 1678, 24689, 2569, 123, 123458, 14567, 1678, 24689, 2569}
94:26	$0, 0, 0, 0, 0, \frac{20}{49}\sqrt{2}e^{12}, \frac{20}{49}\sqrt{2}e^{13}, \frac{4}{49}\sqrt{31}e^{24} + \frac{4}{49}\sqrt{31}e^{35},$ $\frac{12}{49}\sqrt{3}e^{23} + \frac{4}{49}\sqrt{77}e^{45}$	$(\frac{24}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{8}{49}, -\frac{8}{49})$ $+ \frac{4}{49}\sqrt{166}e^1 \otimes e_9$	{123, 123458, 14567, 1678, 24689, 2569, 123, 123458, 14567, 1678, 24689, 2569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:26	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{58}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}e^{24} + \frac{6}{49}\sqrt{3}e^{35},$ $-\frac{6}{49}e^{23} + \frac{2}{49}\sqrt{77}e^{45}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{94}e^1 \otimes e_9 + \frac{4}{49}\sqrt{21}e^4 \otimes e_6$	{12457, 136, 2356789, 489, 12457, 136, 2356789, 489}
94:26	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{58}e^{12}, \frac{2}{49}\sqrt{30}e^{13}, \frac{2}{49}e^{24} + \frac{6}{49}\sqrt{3}e^{35},$ $\frac{6}{49}e^{23} + \frac{2}{49}\sqrt{77}e^{45}$	$(\frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{94}e^1 \otimes e_9 + \frac{4}{49}\sqrt{21}e^4 \otimes e_6$	{12457, 136, 2356789, 489, 12457, 136, 2356789, 489}
94:26	$0, 0, 0, 0, 0, \frac{20}{49}\sqrt{2}e^{12}, \frac{20}{49}\sqrt{2}e^{13}, \frac{8}{49}\sqrt{13}e^{24} + \frac{8}{49}\sqrt{13}e^{35},$ $-\frac{8}{49}\sqrt{14}e^{23} + \frac{4}{49}\sqrt{6}e^{45}$	$(\frac{24}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{8}{49}, -\frac{8}{49})$ $+\frac{4}{49}\sqrt{166}e^1 \otimes e_8$	{123459, 1247, 1679, 236789, 2568, 4589, 123459, 1247, 1679, 236789, 2568, 4589}
94:26	$0, 0, 0, 0, 0, \frac{20}{49}\sqrt{2}e^{12}, \frac{20}{49}\sqrt{2}e^{13}, \frac{8}{49}\sqrt{13}e^{24} + \frac{8}{49}\sqrt{13}e^{35},$ $\frac{8}{49}\sqrt{14}e^{23} + \frac{4}{49}\sqrt{6}e^{45}$	$(\frac{24}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, -\frac{4}{49}, \frac{20}{49}, \frac{20}{49}, -\frac{8}{49}, -\frac{8}{49})$ $+\frac{4}{49}\sqrt{166}e^1 \otimes e_8$	{123459, 1247, 1679, 236789, 2568, 4589, 123459, 1247, 1679, 236789, 2568, 4589}
94:26	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{34}e^{12}, \frac{5}{91}\sqrt{34}e^{13}, \frac{10}{91}\sqrt{13}e^{24} + \frac{5}{91}\sqrt{30}e^{35},$ $-\frac{5}{91}\sqrt{6}e^{23} + \frac{10}{91}\sqrt{7}e^{45}$	$(-\frac{25}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{15}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91})$ $+\frac{5}{91}\sqrt{82}e^2 \otimes e_7 + \frac{5}{91}\sqrt{82}e^4 \otimes e_6$	{12349, 15679, 268, 34578, 12349, 15679, 268, 34578}
94:26	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{34}e^{12}, \frac{5}{91}\sqrt{34}e^{13}, \frac{10}{91}\sqrt{13}e^{24} + \frac{5}{91}\sqrt{30}e^{35},$ $\frac{5}{91}\sqrt{6}e^{23} + \frac{10}{91}\sqrt{7}e^{45}$	$(-\frac{25}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{15}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91})$ $+\frac{5}{91}\sqrt{82}e^2 \otimes e_7 + \frac{5}{91}\sqrt{82}e^4 \otimes e_6$	{12349, 15679, 268, 34578, 12349, 15679, 268, 34578}
94:26	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{399}e^{12}, \frac{12}{73}\sqrt{19}e^{13}, \frac{1}{146}\sqrt{11514}e^{24} + \frac{3}{146}\sqrt{798}e^{35},$ $-\frac{1}{146}\sqrt{6042}e^{23} + \frac{1}{146}\sqrt{190}e^{45}$	$(-\frac{16}{73}, \frac{31}{73}, -\frac{10}{73}, -\frac{10}{73}, \frac{31}{73}, \frac{15}{73}, -\frac{26}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^2 \otimes e_7$	{1234, 12358, 14678, 1567, 24569, 2689, 345789, 379, 1234, 12358, 14678, 1567, 24569, 2689, 345789, 379}
94:26	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{399}e^{12}, \frac{12}{73}\sqrt{19}e^{13}, \frac{1}{146}\sqrt{11514}e^{24} + \frac{3}{146}\sqrt{798}e^{35},$ $\frac{1}{146}\sqrt{6042}e^{23} + \frac{3}{146}\sqrt{190}e^{45}$	$(-\frac{16}{73}, \frac{31}{73}, -\frac{10}{73}, -\frac{10}{73}, \frac{31}{73}, \frac{15}{73}, -\frac{26}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^2 \otimes e_7$	{1234, 12358, 14678, 1567, 24569, 2689, 345789, 379, 1234, 12358, 14678, 1567, 24569, 2689, 345789, 379}
94:26	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{3}{73}\sqrt{190}e^{24} + \frac{1}{73}\sqrt{627}e^{35},$ $-\frac{1}{73}\sqrt{1995}e^{23} + \frac{3}{73}\sqrt{38}e^{45}$	$(-\frac{16}{73}, -\frac{10}{73}, \frac{31}{73}, \frac{31}{73}, -\frac{10}{73}, -\frac{26}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^4 \otimes e_6$	{12349, 12457, 136, 15679, 2356789, 268, 34578, 489, 12349, 12457, 136, 15679, 2356789, 268, 34578, 489}
94:26	$0, 0, 0, 0, 0, \frac{12}{73}\sqrt{19}e^{12}, \frac{1}{73}\sqrt{399}e^{13}, \frac{3}{73}\sqrt{190}e^{24} + \frac{1}{73}\sqrt{627}e^{35},$ $\frac{1}{73}\sqrt{1995}e^{23} + \frac{9}{73}\sqrt{38}e^{45}$	$(-\frac{16}{73}, -\frac{10}{73}, \frac{31}{73}, \frac{31}{73}, -\frac{10}{73}, -\frac{26}{73}, \frac{15}{73}, \frac{21}{73}, \frac{21}{73})$ $+\frac{3}{73}\sqrt{779}e^4 \otimes e_6$	{12349, 12457, 136, 15679, 2356789, 268, 34578, 489, 12349, 12457, 136, 15679, 2356789, 268, 34578, 489}
94:27	$0, 0, 0, 0, 0, \frac{10}{227}\sqrt{161}e^{12}, \frac{10}{227}\sqrt{161}e^{13},$ $\frac{1}{227}\sqrt{19803}e^{25} - \frac{1}{227}\sqrt{19803}e^{34}, \frac{23}{227}\sqrt{21}e^{24} + \frac{23}{227}\sqrt{21}e^{35}$	$(\frac{127}{227}, -\frac{42}{227}, -\frac{42}{227}, \frac{8}{227}, \frac{8}{227}, \frac{85}{227}, \frac{85}{227}, -\frac{34}{227}, -\frac{34}{227})$ $+\frac{8}{227}\sqrt{966}e^1 \otimes e_8$	{123459, 1257, 1679, 23678, 24689, 458, 123459, 1257, 1679, 23678, 24689, 458}
94:27	$0, 0, 0, 0, 0, \frac{10}{227}\sqrt{161}e^{12}, \frac{10}{227}\sqrt{161}e^{13},$ $\frac{1}{227}\sqrt{19803}e^{25} + \frac{1}{227}\sqrt{19803}e^{34}, \frac{23}{227}\sqrt{21}e^{24} + \frac{23}{227}\sqrt{21}e^{35}$	$(\frac{127}{227}, -\frac{42}{227}, -\frac{42}{227}, \frac{8}{227}, \frac{8}{227}, \frac{85}{227}, \frac{85}{227}, -\frac{34}{227}, -\frac{34}{227})$ $+\frac{8}{227}\sqrt{966}e^1 \otimes e_8$	{123459, 1257, 1679, 23678, 24689, 458, 123459, 1257, 1679, 23678, 24689, 458}
94:27	$0, 0, 0, 0, 0, \frac{2}{259}\sqrt{7}e^{12}, \frac{2}{259}\sqrt{65}e^{13}, \frac{1}{259}\sqrt{219}e^{25} - \frac{1}{259}\sqrt{69}e^{34},$ $\frac{1}{259}\sqrt{123}e^{24} + \frac{1}{259}\sqrt{165}e^{35}$	$(-\frac{1}{259}, \frac{6}{259}, \frac{6}{259}, -\frac{8}{259}, -\frac{8}{259}, \frac{5}{259}, \frac{5}{259}, -\frac{2}{259}, -\frac{2}{259})$ $+\frac{12}{259}\sqrt{2}e^2 \otimes e_7 + \frac{8}{259}\sqrt{3}e^1 \otimes e_8$	{123569, 1479, 289, 3456789, 123569, 1479, 289, 3456789}
94:27	$0, 0, 0, 0, 0, \frac{2}{259}\sqrt{7}e^{12}, \frac{2}{259}\sqrt{65}e^{13}, \frac{1}{259}\sqrt{219}e^{25} + \frac{1}{259}\sqrt{69}e^{34},$ $\frac{1}{259}\sqrt{123}e^{24} + \frac{1}{259}\sqrt{165}e^{35}$	$(-\frac{1}{259}, \frac{6}{259}, \frac{6}{259}, -\frac{8}{259}, -\frac{8}{259}, \frac{5}{259}, \frac{5}{259}, -\frac{2}{259}, -\frac{2}{259})$ $+\frac{12}{259}\sqrt{2}e^2 \otimes e_7 + \frac{8}{259}\sqrt{3}e^1 \otimes e_8$	{123569, 1479, 289, 3456789, 123569, 1479, 289, 3456789}
94:27	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{3}e^{13}, \frac{1}{3}\sqrt{3}e^{25} - \frac{1}{9}\sqrt{21}e^{34},$ $\frac{1}{3}\sqrt{3}e^{24} + \frac{1}{9}\sqrt{21}e^{35}$	$(-\frac{1}{3}, \frac{2}{9}, \frac{2}{9}, 0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9})$ $+\frac{4}{9}\sqrt{3}e^2 \otimes e_7$	{123468, 1479, 245, 289, 3456789, 367, 123468, 1479, 245, 289, 3456789, 367}
94:27	$0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{3}e^{13}, \frac{1}{3}\sqrt{3}e^{25} + \frac{1}{9}\sqrt{21}e^{34},$ $\frac{1}{3}\sqrt{3}e^{24} + \frac{1}{9}\sqrt{21}e^{35}$	$(-\frac{1}{3}, \frac{2}{9}, \frac{2}{9}, 0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9})$ $+\frac{4}{9}\sqrt{3}e^2 \otimes e_7$	{123468, 1479, 245, 289, 3456789, 367, 123468, 1479, 245, 289, 3456789, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:28	$0, 0, 0, 0, 0, \frac{3}{524}\sqrt{12505}e^{12}, \frac{1}{524}\sqrt{142130}e^{34},$ $\frac{3}{524}\sqrt{12505}e^{15} + \frac{9}{262}\sqrt{305}e^{23}, \frac{1}{524}\sqrt{7930}e^{14} + \frac{1}{524}\sqrt{23790}e^{25}$	$(\frac{42}{131}, \frac{187}{1048}, \frac{3}{262}, -\frac{143}{524}, -\frac{137}{1048}, \frac{523}{1048}, -\frac{137}{524}, \frac{199}{1048}, \frac{25}{524})$ $+ \frac{1}{524}\sqrt{272670}e^1 \otimes e_7$	{2356789, 2467, 379, 4578}
94:28	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{170430}e^{12}, \frac{1}{521}\sqrt{156446}e^{34},$ $\frac{4}{521}\sqrt{1311}e^{15} + \frac{1}{521}\sqrt{56810}e^{23}, \frac{9}{521}\sqrt{874}e^{14} + \frac{4}{521}\sqrt{1311}e^{25}$	$(-\frac{7}{521}, -\frac{153}{521}, \frac{277}{521}, -\frac{15}{521}, \frac{131}{521}, -\frac{160}{521}, \frac{262}{521}, \frac{124}{521}, -\frac{22}{521})$ $+ \frac{2}{521}\sqrt{95703}e^3 \otimes e_6$	{1237, 14679, 24678, 3789}
94:28	$0, 0, 0, 0, 0, \frac{37}{4669}\sqrt{510}e^{12}, \frac{37}{4669}\sqrt{1886}e^{34},$ $\frac{148}{4669}\sqrt{57}e^{15} + \frac{37}{4669}\sqrt{2474}e^{23}, \frac{111}{4669}\sqrt{134}e^{14} + \frac{148}{4669}\sqrt{87}e^{25}$	$(-\frac{37}{203}, -\frac{333}{4669}, \frac{185}{4669}, \frac{1221}{4669}, \frac{703}{4669}, -\frac{1184}{4669}, \frac{1406}{4669}, -\frac{148}{4669}, \frac{370}{4669})$ $+ \frac{1776}{4669}\sqrt{2}e^4 \otimes e_8 + \frac{74}{4669}\sqrt{951}e^3 \otimes e_6$	{14567, 3578}
94:28	$0, 0, 0, 0, 0, \frac{4}{273}\sqrt{65}e^{12}, \frac{10}{273}\sqrt{11}e^{34}, \frac{4}{273}\sqrt{65}e^{15} + \frac{1}{273}\sqrt{1130}e^{23},$ $\frac{1}{273}\sqrt{710}e^{14} + \frac{1}{273}\sqrt{410}e^{25}$	$(\frac{3}{91}, -\frac{4}{91}, \frac{23}{273}, -\frac{19}{273}, \frac{2}{273}, -\frac{1}{91}, \frac{4}{273}, \frac{11}{273}, -\frac{10}{273})$ $+ \frac{1}{273}\sqrt{1270}e^5 \otimes e_6 + \frac{2}{91}\sqrt{35}e^1 \otimes e_7$	{125, 168}
94:28	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{30}e^{12}, \frac{4}{35}\sqrt{15}e^{34}, \frac{2}{35}\sqrt{30}e^{15} + \frac{3}{35}\sqrt{10}e^{23},$ $\frac{3}{35}\sqrt{10}e^{14} + \frac{1}{35}\sqrt{330}e^{25}$	$(-\frac{1}{35}, -\frac{8}{35}, \frac{13}{35}, -\frac{1}{35}, \frac{6}{35}, -\frac{9}{35}, \frac{12}{35}, \frac{1}{35}, -\frac{2}{35})$ $+ \frac{1}{35}\sqrt{510}e^5 \otimes e_6 + \frac{2}{35}\sqrt{105}e^3 \otimes e_9$	{269, 589}
94:28	$0, 0, 0, 0, 0, \frac{3}{679}\sqrt{114}e^{12}, \frac{9}{679}\sqrt{290}e^{34}, \frac{6}{679}\sqrt{435}e^{15} + \frac{3}{679}\sqrt{1878}e^{23},$ $\frac{3}{679}\sqrt{1878}e^{14} + \frac{6}{679}\sqrt{498}e^{25}$	$(\frac{57}{679}, \frac{15}{679}, \frac{15}{679}, -\frac{69}{679}, -\frac{27}{679}, \frac{72}{679}, -\frac{54}{679}, \frac{30}{679}, -\frac{12}{679})$ $+ \frac{18}{679}\sqrt{14}e^3 \otimes e_9 + \frac{6}{679}\sqrt{813}e^5 \otimes e_7$	{234568, 589}
94:28	$0, 0, 0, 0, 0, \frac{23}{172}\sqrt{15}e^{12}, \frac{1}{43}\sqrt{230}e^{34}, \frac{23}{172}\sqrt{15}e^{15} + \frac{1}{86}\sqrt{3565}e^{23},$ $\frac{1}{86}\sqrt{3565}e^{14} + \frac{1}{172}\sqrt{8970}e^{25}$	$(\frac{8}{43}, -\frac{83}{344}, \frac{47}{86}, -\frac{53}{172}, \frac{41}{344}, -\frac{19}{344}, \frac{41}{172}, \frac{105}{344}, -\frac{21}{172})$ $+ \frac{7}{172}\sqrt{690}e^3 \otimes e_9$	{2357, 24789, 3678, 45679}
94:28	$0, 0, 0, 0, 0, \frac{45}{1001}\sqrt{10}e^{12}, \frac{25}{1001}\sqrt{110}e^{34},$ $\frac{50}{1001}\sqrt{30}e^{15} + \frac{15}{1001}\sqrt{10}e^{23}, \frac{5}{1001}\sqrt{1670}e^{14} + \frac{10}{1001}\sqrt{390}e^{25}$	$(\frac{15}{1001}, \frac{155}{1001}, -\frac{15}{77}, \frac{85}{1001}, -\frac{5}{91}, \frac{170}{1001}, -\frac{10}{91}, -\frac{40}{1001}, \frac{100}{1001})$ $+ \frac{10}{1001}\sqrt{1095}e^4 \otimes e_8 + \frac{10}{1001}\sqrt{1185}e^1 \otimes e_7$	{3578, 479}
94:28	$0, 0, 0, 0, 0, \frac{10}{21}\sqrt{2}e^{12}, \frac{5}{42}\sqrt{29}e^{34}, \frac{10}{21}\sqrt{2}e^{15} + \frac{5}{42}\sqrt{38}e^{23},$ $\frac{5}{42}\sqrt{38}e^{14} + \frac{10}{21}\sqrt{2}e^{25}$	$(-\frac{5}{28}, -\frac{5}{28}, \frac{5}{21}, \frac{5}{21}, \frac{5}{21}, -\frac{5}{14}, \frac{10}{21}, \frac{5}{84}, \frac{5}{84})$ $+ \frac{5}{42}\sqrt{73}e^5 \otimes e_6$	{125, 168, 589}
94:28	$0, 0, 0, 0, 0, \frac{29}{5565}\sqrt{4182}e^{12}, \frac{29}{5565}\sqrt{4534}e^{34},$ $\frac{58}{5565}\sqrt{485}e^{15} + \frac{29}{5565}\sqrt{1430}e^{23}, \frac{29}{5565}\sqrt{1042}e^{14} + \frac{58}{5565}\sqrt{221}e^{25}$	$(\frac{261}{1855}, -\frac{29}{371}, \frac{1189}{5565}, -\frac{1247}{5565}, -\frac{29}{5565}, \frac{116}{5565}, -\frac{58}{5565}, \frac{754}{5565}, -\frac{464}{5565})$ $+ \frac{116}{5565}\sqrt{353}e^1 \otimes e_7 + \frac{58}{5565}\sqrt{1121}e^3 \otimes e_6$	{2467, 379}
94:28	$0, 0, 0, 0, 0, \frac{3}{161}\sqrt{22}e^{12}, \frac{9}{161}\sqrt{26}e^{34}, \frac{3}{161}\sqrt{170}e^{15} + \frac{3}{161}\sqrt{190}e^{23},$ $\frac{3}{161}\sqrt{190}e^{14} + \frac{3}{161}\sqrt{170}e^{25}$	$(\frac{12}{161}, \frac{12}{161}, -\frac{9}{161}, -\frac{9}{161}, -\frac{9}{161}, \frac{24}{161}, -\frac{18}{161}, \frac{3}{161}, \frac{3}{161})$ $+ \frac{6}{161}\sqrt{74}e^5 \otimes e_7$	{125, 134569, 589}
94:28	$0, 0, 0, 0, 0, \frac{1}{749}\sqrt{5118}e^{12}, \frac{1}{749}\sqrt{5502}e^{34}, \frac{2}{749}\sqrt{570}e^{15} + \frac{1}{749}\sqrt{3594}e^{23},$ $\frac{1}{749}\sqrt{570}e^{14} + \frac{2}{749}\sqrt{282}e^{25}$	$(-\frac{9}{749}, \frac{33}{749}, -\frac{51}{749}, \frac{33}{749}, -\frac{9}{749}, \frac{24}{749}, -\frac{18}{749}, -\frac{18}{749}, \frac{24}{749})$ $+ \frac{2}{749}\sqrt{1419}e^4 \otimes e_6 + \frac{4}{749}\sqrt{426}e^1 \otimes e_7$	{12348, 1689}
94:29	$0, 0, 0, 0, 0, \frac{4}{49}\sqrt{6}e^{12}, \frac{20}{49}\sqrt{2}e^{34}, \frac{8}{49}\sqrt{13}e^{15} + \frac{8}{49}\sqrt{13}e^{23},$ $\frac{8}{49}\sqrt{14}e^{13} + \frac{20}{49}\sqrt{2}e^{45}$	$(\frac{10}{49}, -\frac{4}{49}, -\frac{4}{49}, \frac{24}{49}, -\frac{18}{49}, \frac{6}{49}, \frac{20}{49}, -\frac{8}{49}, \frac{6}{49})$ $+ \frac{4}{49}\sqrt{166}e^4 \otimes e_8$	{1268, 1457, 2589, 4679}
94:29	$0, 0, 0, 0, 0, \frac{2}{739}\sqrt{25527}e^{12}, \frac{4}{739}\sqrt{8255}e^{34},$ $\frac{2}{739}\sqrt{41529}e^{15} + \frac{2}{739}\sqrt{42037}e^{23}, \frac{4}{739}\sqrt{4191}e^{13} + \frac{2}{739}\sqrt{50546}e^{45}$	$(\frac{75}{739}, \frac{207}{739}, -\frac{122}{739}, -\frac{57}{739}, \frac{10}{739}, \frac{282}{739}, -\frac{179}{739}, \frac{85}{739}, -\frac{47}{739})$ $+ \frac{2}{739}\sqrt{83566}e^2 \otimes e_9$	{123, 1469, 2678, 34789}
94:29	$0, 0, 0, 0, 0, \frac{2}{739}\sqrt{25527}e^{12}, \frac{2}{739}\sqrt{50546}e^{34},$ $\frac{2}{739}\sqrt{42037}e^{15} + \frac{2}{739}\sqrt{41529}e^{23}, \frac{4}{739}\sqrt{4191}e^{13} + \frac{2}{739}\sqrt{8255}e^{45}$	$(\frac{75}{739}, \frac{207}{739}, -\frac{122}{739}, -\frac{57}{739}, \frac{10}{739}, \frac{282}{739}, -\frac{179}{739}, \frac{85}{739}, -\frac{47}{739})$ $+ \frac{2}{739}\sqrt{83566}e^1 \otimes e_7$	{12348, 1689, 2467, 379}
94:29	$0, 0, 0, 0, 0, \frac{6}{931}\sqrt{6}e^{12}, \frac{2}{931}\sqrt{1290}e^{34}, \frac{4}{931}\sqrt{327}e^{15} + \frac{4}{931}\sqrt{47}e^{23},$ $\frac{4}{931}\sqrt{266}e^{13} + \frac{2}{931}\sqrt{730}e^{45}$	$(\frac{20}{931}, \frac{34}{931}, -\frac{36}{931}, \frac{6}{931}, -\frac{22}{931}, \frac{54}{931}, -\frac{30}{931}, -\frac{2}{931}, -\frac{16}{931})$ $+ \frac{2}{931}\sqrt{1774}e^4 \otimes e_8 + \frac{8}{931}\sqrt{105}e^5 \otimes e_7$	{2589, 4679}
94:29	$0, 0, 0, 0, 0, \frac{6}{1463}\sqrt{834}e^{12}, \frac{6}{1463}\sqrt{1023}e^{34},$ $\frac{3}{1463}\sqrt{1794}e^{15} + \frac{18}{1463}\sqrt{77}e^{23}, \frac{18}{1463}\sqrt{7}e^{13} + \frac{3}{1463}\sqrt{474}e^{45}$	$(\frac{3}{77}, \frac{15}{1463}, -\frac{69}{1463}, \frac{9}{133}, -\frac{111}{1463}, \frac{72}{1463}, \frac{30}{1463}, -\frac{54}{1463}, -\frac{12}{1463})$ $+ \frac{3}{1463}\sqrt{3558}e^4 \otimes e_6 + \frac{3}{1463}\sqrt{4566}e^1 \otimes e_7$	{235678, 45789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:29	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{777}e^{12}, \frac{1}{203}\sqrt{406}e^{34}, \frac{1}{203}\sqrt{994}e^{15} + \frac{2}{29}\sqrt{5}e^{23},$ $\frac{5}{203}\sqrt{21}e^{13} + \frac{1}{203}\sqrt{910}e^{45}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{1645}e^2 \otimes e_9 - \frac{1}{203}\sqrt{987}e^3 \otimes e_6$	{123, 1469, 2678, 34789}
94:29	$0, 0, 0, 0, 0, \frac{9}{73}\sqrt{38}e^{12}, \frac{12}{73}\sqrt{19}e^{34}, \frac{1}{73}\sqrt{627}e^{15} + \frac{3}{73}\sqrt{190}e^{23},$ $\frac{1}{73}\sqrt{1995}e^{13} + \frac{1}{73}\sqrt{399}e^{45}$	$(\frac{15}{146}, \frac{31}{73}, -\frac{10}{73}, -\frac{16}{73}, \frac{27}{146}, \frac{77}{146}, -\frac{26}{73}, \frac{21}{73}, -\frac{5}{146})$ $+ \frac{3}{73}\sqrt{779}e^2 \otimes e_7$	{12349, 1356789, 23456, 378}
94:29	$0, 0, 0, 0, 0, \frac{36}{2309}\sqrt{285}e^{12}, \frac{132}{2309}\sqrt{190}e^{34},$ $\frac{12}{2309}\sqrt{22135}e^{15} + \frac{12}{2309}\sqrt{8930}e^{23}, \frac{6}{2309}\sqrt{50635}e^{13} + \frac{6}{2309}\sqrt{29830}e^{45}$	$(-\frac{160}{2309}, \frac{615}{2309}, \frac{288}{2309}, -\frac{935}{2309}, \frac{1063}{2309}, \frac{455}{2309}, -\frac{647}{2309}, \frac{903}{2309}, \frac{128}{2309})$ $+ \frac{18}{2309}\sqrt{20710}e^5 \otimes e_7$	{234568, 24679, 37, 589}
94:29	$0, 0, 0, 0, 0, \frac{8}{175}e^{12}, \frac{6}{875}\sqrt{34}e^{34}, \frac{2}{125}\sqrt{2}e^{15} + \frac{4}{875}\sqrt{6}e^{23},$ $\frac{2}{875}\sqrt{251}e^{13} + \frac{4}{875}\sqrt{46}e^{45}$	$(\frac{12}{875}, \frac{1}{175}, -\frac{16}{875}, \frac{19}{875}, -\frac{23}{875}, \frac{17}{875}, \frac{3}{875}, -\frac{11}{875}, -\frac{4}{875})$ $+ \frac{2}{875}\sqrt{366}e^2 \otimes e_7 + \frac{2}{875}\sqrt{446}e^4 \otimes e_6$	{12349, 1356789}
94:29	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{777}e^{12}, \frac{1}{203}\sqrt{1239}e^{34}, \frac{1}{203}\sqrt{651}e^{15} + \frac{1}{203}\sqrt{665}e^{23},$ $\frac{5}{203}\sqrt{21}e^{13} + \frac{1}{29}\sqrt{15}e^{45}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{1645}e^1 \otimes e_7 - \frac{1}{203}\sqrt{987}e^3 \otimes e_6$	{12348, 1689, 2467, 379}
94:29	$0, 0, 0, 0, 0, \frac{6}{2369}\sqrt{70503}e^{12}, \frac{4}{2369}\sqrt{141006}e^{34},$ $\frac{6}{2369}\sqrt{33431}e^{15} + \frac{2}{2369}\sqrt{352515}e^{23}, \frac{40}{2369}\sqrt{993}e^{13} + \frac{6}{2369}\sqrt{9930}e^{45}$	$(-\frac{341}{2369}, -\frac{599}{2369}, \frac{1046}{2369}, -\frac{83}{2369}, \frac{788}{2369}, -\frac{940}{2369}, \frac{963}{2369}, \frac{447}{2369}, \frac{705}{2369})$ $+ \frac{6}{2369}\sqrt{217798}e^3 \otimes e_6$	{1234, 169, 24678, 3789}
94:29	$0, 0, 0, 0, 0, \frac{86}{4557}\sqrt{335}e^{12}, \frac{86}{4557}\sqrt{778}e^{34},$ $\frac{43}{4557}\sqrt{1414}e^{15} + \frac{86}{1519}\sqrt{6}e^{23}, \frac{43}{4557}\sqrt{426}e^{13} + \frac{86}{4557}\sqrt{105}e^{45}$	$(-\frac{215}{1519}, -\frac{43}{4557}, \frac{387}{1519}, -\frac{1247}{4557}, \frac{1763}{4557}, -\frac{688}{4557}, -\frac{86}{4557}, \frac{1118}{4557}, \frac{172}{1519})$ $+ \frac{43}{4557}\sqrt{3754}e^3 \otimes e_6 + \frac{43}{4557}\sqrt{4322}e^5 \otimes e_7$	{24679, 37}
94:29	$0, 0, 0, 0, 0, \frac{6}{1463}\sqrt{834}e^{12}, \frac{3}{1463}\sqrt{474}e^{34},$ $\frac{18}{1463}\sqrt{77}e^{15} + \frac{3}{1463}\sqrt{1794}e^{23}, \frac{18}{1463}\sqrt{7}e^{13} + \frac{6}{1463}\sqrt{1023}e^{45}$	$(\frac{3}{77}, \frac{15}{1463}, -\frac{69}{1463}, \frac{9}{133}, -\frac{111}{1463}, \frac{72}{1463}, \frac{30}{1463}, -\frac{54}{1463}, -\frac{12}{1463})$ $+ \frac{3}{1463}\sqrt{3558}e^4 \otimes e_6 + \frac{3}{1463}\sqrt{4566}e^2 \otimes e_9$	{12458, 135689}
94:29	$0, 0, 0, 0, 0, \frac{23}{1589}\sqrt{762}e^{12}, \frac{46}{1589}\sqrt{195}e^{34},$ $\frac{23}{1589}\sqrt{1034}e^{15} + \frac{552}{1589}\sqrt{2}e^{23}, \frac{184}{1589}\sqrt{6}e^{13} + \frac{368}{1589}\sqrt{6}e^{45}$	$(\frac{115}{1589}, \frac{437}{1589}, -\frac{207}{1589}, -\frac{207}{1589}, \frac{115}{1589}, \frac{552}{1589}, -\frac{414}{1589}, \frac{230}{1589}, -\frac{92}{1589})$ $+ \frac{23}{1589}\sqrt{2446}e^2 \otimes e_9 + \frac{23}{1589}\sqrt{390}e^5 \otimes e_7$	{2678, 34789}
94:29	$0, 0, 0, 0, 0, \frac{9}{73}\sqrt{38}e^{12}, \frac{1}{73}\sqrt{399}e^{34}, \frac{3}{73}\sqrt{190}e^{15} + \frac{1}{73}\sqrt{627}e^{23},$ $\frac{1}{73}\sqrt{1995}e^{13} + \frac{12}{73}\sqrt{19}e^{45}$	$(-\frac{13}{73}, -\frac{10}{73}, \frac{31}{73}, -\frac{16}{73}, \frac{34}{73}, -\frac{23}{73}, \frac{15}{73}, \frac{21}{73}, \frac{18}{73})$ $+ \frac{3}{73}\sqrt{779}e^5 \otimes e_6$	{12457, 168, 24679, 589}
94:29	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{777}e^{12}, \frac{1}{203}\sqrt{406}e^{34}, \frac{1}{203}\sqrt{994}e^{15} + \frac{2}{29}\sqrt{5}e^{23},$ $\frac{5}{203}\sqrt{21}e^{13} + \frac{1}{203}\sqrt{910}e^{45}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{1645}e^2 \otimes e_9 + \frac{1}{203}\sqrt{987}e^3 \otimes e_6$	{123, 1469, 2678, 34789}
94:29	$0, 0, 0, 0, 0, \frac{2}{767}\sqrt{78310}e^{12}, \frac{2}{767}\sqrt{54530}e^{34}, \frac{82}{767}\sqrt{10}e^{15} + \frac{82}{767}\sqrt{10}e^{23},$ $\frac{10}{767}\sqrt{1763}e^{13} + \frac{2}{767}\sqrt{54530}e^{45}$	$(\frac{20}{767}, -\frac{15}{59}, \frac{136}{767}, \frac{235}{767}, -\frac{79}{767}, -\frac{175}{767}, \frac{371}{767}, -\frac{1}{13}, \frac{12}{59})$ $+ \frac{2}{767}\sqrt{135710}e^4 \otimes e_6$	{23678, 2569, 345, 4789}
94:29	$0, 0, 0, 0, 0, \frac{22}{1169}\sqrt{183}e^{12}, \frac{319}{1169}e^{34}, \frac{22}{1169}\sqrt{215}e^{15} + \frac{11}{1169}\sqrt{763}e^{23},$ $\frac{33}{1169}\sqrt{5}e^{13} + \frac{176}{1169}e^{45}$	$(-\frac{44}{1169}, \frac{110}{1169}, \frac{33}{1169}, -\frac{198}{1169}, \frac{187}{1169}, \frac{66}{1169}, -\frac{165}{1169}, \frac{143}{1169}, -\frac{11}{1169})$ $+ \frac{11}{1169}\sqrt{789}e^5 \otimes e_6 + \frac{44}{1169}\sqrt{85}e^1 \otimes e_7$	{1689, 2467}
94:29	$0, 0, 0, 0, 0, \frac{8}{315}\sqrt{138}e^{12}, \frac{32}{945}\sqrt{69}e^{34}, \frac{32}{945}\sqrt{29}e^{15} + \frac{8}{945}\sqrt{690}e^{23},$ $\frac{16}{945}\sqrt{43}e^{13} + \frac{8}{189}\sqrt{2}e^{45}$	$(-\frac{8}{105}, \frac{8}{189}, \frac{32}{315}, -\frac{184}{945}, \frac{208}{945}, -\frac{32}{945}, -\frac{88}{945}, \frac{136}{945}, \frac{8}{315})$ $+ \frac{16}{945}\sqrt{422}e^3 \otimes e_6 + \frac{8}{945}\sqrt{1774}e^2 \otimes e_7$	{1467, 2689}
94:29	$0, 0, 0, 0, 0, \frac{22}{1169}\sqrt{183}e^{12}, \frac{11}{1169}\sqrt{519}e^{34},$ $\frac{110}{1169}\sqrt{5}e^{15} + \frac{11}{1169}\sqrt{597}e^{23}, \frac{33}{1169}\sqrt{5}e^{13} + \frac{44}{1169}\sqrt{69}e^{45}$	$(-\frac{44}{1169}, \frac{110}{1169}, \frac{33}{1169}, -\frac{198}{1169}, \frac{187}{1169}, \frac{66}{1169}, -\frac{165}{1169}, \frac{143}{1169}, -\frac{11}{1169})$ $+ \frac{11}{1169}\sqrt{789}e^5 \otimes e_6 + \frac{44}{1169}\sqrt{85}e^2 \otimes e_9$	{1469, 2678}
94:29	$0, 0, 0, 0, 0, \frac{1}{203}\sqrt{777}e^{12}, \frac{1}{203}\sqrt{1239}e^{34}, \frac{1}{203}\sqrt{651}e^{15} + \frac{1}{203}\sqrt{665}e^{23},$ $\frac{5}{203}\sqrt{21}e^{13} + \frac{1}{29}\sqrt{15}e^{45}$	$(-\frac{1}{29}, \frac{1}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{1645}e^1 \otimes e_7 + \frac{1}{203}\sqrt{987}e^3 \otimes e_6$	{12348, 1689, 2467, 379}
94:29	$0, 0, 0, 0, 0, \frac{10}{637}\sqrt{246}e^{12}, \frac{10}{637}\sqrt{638}e^{34}, \frac{20}{637}\sqrt{55}e^{15} + \frac{20}{637}\sqrt{139}e^{23},$ $\frac{40}{637}\sqrt{14}e^{13} + \frac{10}{637}\sqrt{302}e^{45}$	$(\frac{10}{637}, -\frac{10}{49}, \frac{80}{637}, \frac{150}{637}, -\frac{60}{637}, -\frac{120}{637}, \frac{230}{637}, -\frac{50}{637}, \frac{90}{637})$ $+ \frac{10}{637}\sqrt{1258}e^4 \otimes e_8 + \frac{120}{637}\sqrt{7}e^3 \otimes e_6$	{14567, 25689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:29	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{58}e^{34}, \frac{4}{49}\sqrt{5}e^{15} + \frac{8}{49}\sqrt{3}e^{23},$ $\frac{4}{49}\sqrt{14}e^{13} + \frac{2}{49}\sqrt{30}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $-\frac{2}{49}\sqrt{94}e^4 \otimes e_8 + \frac{4}{49}\sqrt{21}e^2 \otimes e_7$	{128, 14567, 25689, 479}
94:29	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{58}e^{34}, \frac{4}{49}\sqrt{5}e^{15} + \frac{8}{49}\sqrt{3}e^{23},$ $\frac{4}{49}\sqrt{14}e^{13} + \frac{2}{49}\sqrt{30}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{8}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+\frac{2}{49}\sqrt{94}e^4 \otimes e_8 + \frac{4}{49}\sqrt{21}e^2 \otimes e_7$	{128, 14567, 25689, 479}
94:30	$0, 0, 0, 0, 0, \frac{1}{6405}\sqrt{4382}e^{12}, \frac{1}{6405}\sqrt{5694}e^{34},$ $\frac{2}{6405}\sqrt{614}e^{15} + \frac{1}{6405}\sqrt{3378}e^{23}, \frac{1}{6405}\sqrt{586}e^{14} + \frac{2}{6405}\sqrt{370}e^{35}$	$(\frac{9}{2135}, -\frac{43}{6405}, \frac{41}{6405}, -\frac{1}{427}, -\frac{29}{6405}, -\frac{16}{6405}, \frac{26}{6405}, -\frac{2}{6405}, \frac{4}{2135})$ $+\frac{2}{6405}\sqrt{1333}e^4 \otimes e_6 + \frac{4}{6405}\sqrt{410}e^1 \otimes e_7$	{12348, 1689}
94:30	$0, 0, 0, 0, 0, \frac{3}{997}\sqrt{38110}e^{12}, \frac{120}{997}\sqrt{37}e^{34},$ $\frac{1}{997}\sqrt{418470}e^{15} + \frac{148}{997}\sqrt{15}e^{23}, \frac{1}{997}\sqrt{12210}e^{14} + \frac{4}{997}\sqrt{9435}e^{35}$	$(\frac{322}{997}, \frac{129}{997}, \frac{94}{997}, -\frac{327}{997}, -\frac{99}{997}, \frac{451}{997}, -\frac{233}{997}, \frac{223}{997}, -\frac{5}{997})$ $+\frac{15}{997}\sqrt{4218}e^1 \otimes e_7$	{125, 134569, 2356789, 4578}
94:30	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{51}e^{12}, \frac{1}{21}\sqrt{51}e^{34}, \frac{1}{21}\sqrt{15}e^{15} + \frac{1}{21}\sqrt{21}e^{23},$ $\frac{1}{21}\sqrt{21}e^{14} + \frac{1}{21}\sqrt{15}e^{35}$	$(\frac{4}{21}, -\frac{1}{7}, \frac{4}{21}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21})$ $+\frac{1}{21}\sqrt{57}e^1 \otimes e_7 + \frac{1}{21}\sqrt{57}e^3 \otimes e_6$	{123489, 168, 2467}
94:30	$0, 0, 0, 0, 0, \frac{1}{79}\sqrt{3010}e^{12}, \frac{5}{79}\sqrt{42}e^{34}, \frac{4}{79}\sqrt{105}e^{15} + \frac{1}{79}\sqrt{2590}e^{23},$ $\frac{1}{79}\sqrt{2590}e^{14} + \frac{2}{79}\sqrt{665}e^{35}$	$(-\frac{21}{79}, \frac{3}{79}, -\frac{7}{79}, \frac{31}{79}, \frac{17}{79}, -\frac{18}{79}, \frac{24}{79}, -\frac{4}{79}, \frac{10}{79})$ $+\frac{70}{79}e^5 \otimes e_6$	{124579, 168, 2467, 589}
94:30	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{42}e^{34}, \frac{2}{35}\sqrt{7}e^{15} + \frac{1}{35}\sqrt{210}e^{23},$ $\frac{1}{35}\sqrt{210}e^{14} + \frac{2}{35}\sqrt{7}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{4}{35}\sqrt{14}e^2 \otimes e_9 + \frac{4}{35}\sqrt{14}e^4 \otimes e_8$	{123467, 13589}
94:30	$0, 0, 0, 0, 0, \frac{15}{889}\sqrt{2}e^{12}, \frac{3}{889}\sqrt{330}e^{34}, \frac{4}{889}\sqrt{195}e^{15} + \frac{1}{889}\sqrt{710}e^{23},$ $\frac{1}{889}\sqrt{1990}e^{14} + \frac{4}{889}\sqrt{170}e^{35}$	$(-\frac{19}{889}, \frac{37}{889}, -\frac{33}{889}, \frac{9}{889}, \frac{23}{889}, \frac{18}{889}, -\frac{24}{889}, \frac{4}{889}, -\frac{10}{889})$ $+\frac{16}{889}\sqrt{15}e^1 \otimes e_7 + \frac{2}{889}\sqrt{1105}e^4 \otimes e_8$	{12689, 4679}
94:30	$0, 0, 0, 0, 0, \frac{5}{79}\sqrt{42}e^{12}, \frac{3}{79}\sqrt{210}e^{34}, \frac{8}{79}\sqrt{35}e^{15} + \frac{1}{79}\sqrt{2310}e^{23},$ $\frac{1}{79}\sqrt{2310}e^{14} + \frac{4}{79}\sqrt{105}e^{35}$	$(-\frac{7}{79}, \frac{31}{79}, -\frac{21}{79}, \frac{3}{79}, \frac{17}{79}, \frac{24}{79}, -\frac{18}{79}, \frac{10}{79}, -\frac{4}{79})$ $+\frac{70}{79}e^2 \otimes e_9$	{2356, 2678, 34789, 459}
94:30	$0, 0, 0, 0, 0, \frac{1}{21}\sqrt{51}e^{12}, \frac{1}{21}\sqrt{51}e^{34}, \frac{1}{21}\sqrt{15}e^{15} + \frac{1}{21}\sqrt{21}e^{23},$ $\frac{1}{21}\sqrt{21}e^{14} + \frac{1}{21}\sqrt{15}e^{35}$	$(\frac{4}{21}, -\frac{1}{7}, \frac{4}{21}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21})$ $+\frac{1}{21}\sqrt{57}e^1 \otimes e_7 - \frac{1}{21}\sqrt{57}e^3 \otimes e_6$	{123489, 168, 2467}
94:30	$0, 0, 0, 0, 0, \frac{23}{1589}\sqrt{762}e^{12}, \frac{69}{1589}\sqrt{2}e^{34},$ $\frac{92}{1589}\sqrt{17}e^{15} + \frac{23}{1589}\sqrt{390}e^{23}, \frac{69}{1589}\sqrt{86}e^{14} + \frac{184}{1589}\sqrt{6}e^{35}$	$(\frac{115}{1589}, \frac{437}{1589}, -\frac{207}{1589}, -\frac{207}{1589}, \frac{115}{1589}, \frac{552}{1589}, -\frac{414}{1589}, \frac{230}{1589}, -\frac{92}{1589})$ $+\frac{46}{1589}\sqrt{421}e^2 \otimes e_9 + \frac{552}{1589}\sqrt{2}e^1 \otimes e_7$	{2678, 34789}
94:30	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{12}, \frac{1}{35}\sqrt{42}e^{34}, \frac{2}{35}\sqrt{7}e^{15} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{2}{35}\sqrt{14}e^{14} + \frac{2}{5}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{4}{35}\sqrt{14}e^2 \otimes e_9 + \frac{4}{35}\sqrt{14}e^5 \otimes e_6$	{12358, 134679}
94:30	$0, 0, 0, 0, 0, \frac{1}{889}\sqrt{3970}e^{12}, \frac{3}{889}\sqrt{330}e^{34}, \frac{4}{889}\sqrt{195}e^{15} + \frac{1}{889}\sqrt{3710}e^{23},$ $\frac{9}{889}\sqrt{30}e^{14} + \frac{10}{889}\sqrt{17}e^{35}$	$(-\frac{19}{889}, \frac{37}{889}, -\frac{33}{889}, \frac{9}{889}, \frac{23}{889}, \frac{18}{889}, -\frac{24}{889}, \frac{4}{889}, -\frac{10}{889})$ $+\frac{16}{889}\sqrt{15}e^1 \otimes e_7 + \frac{2}{889}\sqrt{1105}e^5 \otimes e_6$	{168, 2467}
94:30	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{12}, \frac{1}{35}\sqrt{182}e^{34}, \frac{2}{35}\sqrt{7}e^{15} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{14}e^{14} + \frac{2}{35}\sqrt{7}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{4}{35}\sqrt{14}e^2 \otimes e_7 + \frac{4}{35}\sqrt{14}e^4 \otimes e_6$	{1234589, 1367}
94:30	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{42}e^{12}, \frac{3}{25}\sqrt{42}e^{34}, \frac{1}{25}\sqrt{42}e^{15} + \frac{3}{25}\sqrt{14}e^{23},$ $\frac{2}{25}\sqrt{42}e^{14} + \frac{1}{25}\sqrt{42}e^{35}$	$(0, \frac{13}{25}, -\frac{7}{25}, -\frac{1}{25}, \frac{6}{25}, \frac{13}{25}, -\frac{8}{25}, \frac{6}{25}, -\frac{1}{25})$ $+\frac{21}{25}\sqrt{2}e^2 \otimes e_7$	{1258, 14679, 2689, 457}
94:30	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{3}{35}\sqrt{14}e^{34}, \frac{2}{35}\sqrt{21}e^{15} + \frac{1}{35}\sqrt{154}e^{23},$ $\frac{1}{5}\sqrt{2}e^{14} + \frac{2}{35}\sqrt{35}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{2}{35}\sqrt{42}e^2 \otimes e_7 - \frac{2}{35}\sqrt{70}e^4 \otimes e_8$	{12689, 1457, 258, 4679}
94:30	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{3}{35}\sqrt{14}e^{34}, \frac{2}{35}\sqrt{21}e^{15} + \frac{1}{35}\sqrt{154}e^{23},$ $\frac{1}{5}\sqrt{2}e^{14} + \frac{2}{35}\sqrt{35}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{2}{35}\sqrt{42}e^2 \otimes e_7 + \frac{2}{35}\sqrt{70}e^4 \otimes e_8$	{12689, 1457, 258, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:31	$0, 0, 0, 0, 0, \frac{13}{252}\sqrt{206}e^{12}, \frac{13}{252}\sqrt{178}e^{14} - \frac{13}{252}\sqrt{141}e^{23},$ $\frac{13}{252}\sqrt{178}e^{13} + \frac{13}{252}\sqrt{141}e^{24}, \frac{13}{126}\sqrt{47}e^{15} + \frac{13}{126}\sqrt{14}e^{34}$	$(\frac{65}{252}, \frac{65}{252}, -\frac{13}{168}, -\frac{13}{168}, -\frac{26}{63}, \frac{65}{126}, \frac{13}{72}, \frac{13}{72}, -\frac{13}{84})$ $+ \frac{65}{84}\sqrt{2}e^1 \otimes e_5$	{1346, 1678, 2345678, 256, 1346, 1678, 2345678, 256}
94:31	$0, 0, 0, 0, 0, \frac{13}{252}\sqrt{206}e^{12}, \frac{13}{252}\sqrt{178}e^{14} + \frac{13}{252}\sqrt{141}e^{23},$ $\frac{13}{252}\sqrt{178}e^{13} + \frac{13}{252}\sqrt{141}e^{24}, \frac{13}{126}\sqrt{47}e^{15} + \frac{13}{126}\sqrt{14}e^{34}$	$(\frac{65}{252}, \frac{65}{252}, -\frac{13}{168}, -\frac{13}{168}, -\frac{26}{63}, \frac{65}{126}, \frac{13}{72}, \frac{13}{72}, -\frac{13}{84})$ $+ \frac{65}{84}\sqrt{2}e^1 \otimes e_5$	{1346, 1678, 2345678, 256, 1346, 1678, 2345678, 256}
94:31	$0, 0, 0, 0, 0, \frac{51}{91}\sqrt{2}e^{12}, \frac{17}{273}\sqrt{71}e^{14} - \frac{17}{273}\sqrt{15}e^{23},$ $\frac{17}{273}\sqrt{71}e^{13} + \frac{17}{273}\sqrt{15}e^{24}, \frac{34}{273}\sqrt{43}e^{15} + \frac{17}{273}\sqrt{10}e^{34}$	$(-\frac{17}{91}, -\frac{17}{91}, \frac{68}{273}, \frac{68}{273}, \frac{187}{273}, -\frac{34}{91}, \frac{17}{273}, \frac{17}{273}, \frac{136}{273})$ $+ \frac{34}{273}\sqrt{114}e^5 \otimes e_6$	{2346, 2678, 3579, 2346, 2678, 3579}
94:31	$0, 0, 0, 0, 0, \frac{51}{91}\sqrt{2}e^{12}, \frac{17}{273}\sqrt{71}e^{14} + \frac{17}{273}\sqrt{15}e^{23},$ $\frac{17}{273}\sqrt{71}e^{13} + \frac{17}{273}\sqrt{15}e^{24}, \frac{34}{273}\sqrt{43}e^{15} + \frac{17}{273}\sqrt{10}e^{34}$	$(-\frac{17}{91}, -\frac{17}{91}, \frac{68}{273}, \frac{68}{273}, \frac{187}{273}, -\frac{34}{91}, \frac{17}{273}, \frac{17}{273}, \frac{136}{273})$ $+ \frac{34}{273}\sqrt{114}e^5 \otimes e_6$	{2346, 2678, 3579, 2346, 2678, 3579}
94:31	$0, 0, 0, 0, 0, \frac{3}{91}\sqrt{114}e^{12}, \frac{3}{91}\sqrt{183}e^{14} - \frac{9}{91}\sqrt{19}e^{23},$ $\frac{3}{91}\sqrt{183}e^{13} + \frac{9}{91}\sqrt{19}e^{24}, \frac{6}{91}\sqrt{57}e^{15} + \frac{3}{91}\sqrt{114}e^{34}$	$(\frac{15}{91}, \frac{15}{91}, -\frac{6}{91}, -\frac{6}{91}, -\frac{27}{91}, \frac{30}{91}, \frac{9}{91}, \frac{9}{91}, -\frac{12}{91})$ $+ \frac{12}{91}\sqrt{30}e^2 \otimes e_9$	{2346, 2678, 3579, 2346, 2678, 3579}
94:31	$0, 0, 0, 0, 0, \frac{3}{91}\sqrt{114}e^{12}, \frac{3}{91}\sqrt{183}e^{14} + \frac{9}{91}\sqrt{19}e^{23},$ $\frac{3}{91}\sqrt{183}e^{13} + \frac{9}{91}\sqrt{19}e^{24}, \frac{6}{91}\sqrt{57}e^{15} + \frac{3}{91}\sqrt{114}e^{34}$	$(\frac{15}{91}, \frac{15}{91}, -\frac{6}{91}, -\frac{6}{91}, -\frac{27}{91}, \frac{30}{91}, \frac{9}{91}, \frac{9}{91}, -\frac{12}{91})$ $+ \frac{12}{91}\sqrt{30}e^2 \otimes e_9$	{2346, 2678, 3579, 2346, 2678, 3579}
94:31	$0, 0, 0, 0, 0, \frac{5}{49}\sqrt{42}e^{12}, \frac{1}{49}\sqrt{399}e^{14} - \frac{3}{49}\sqrt{21}e^{23},$ $\frac{5}{49}\sqrt{21}e^{13} + \frac{1}{7}\sqrt{15}e^{24}, \frac{4}{49}\sqrt{42}e^{15} + \frac{5}{49}\sqrt{42}e^{34}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{7}, 0, 0, \frac{2}{7})$ $+ \frac{2}{49}\sqrt{462}e^3 \otimes e_6$	{12359, 168, 2567, 3789, 12359, 168, 2567, 3789}
94:31	$0, 0, 0, 0, 0, \frac{5}{49}\sqrt{42}e^{12}, \frac{1}{49}\sqrt{399}e^{14} + \frac{3}{49}\sqrt{21}e^{23},$ $\frac{5}{49}\sqrt{21}e^{13} + \frac{1}{7}\sqrt{15}e^{24}, \frac{4}{49}\sqrt{42}e^{15} + \frac{5}{49}\sqrt{42}e^{34}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{3}{7}, -\frac{2}{7}, 0, 0, \frac{2}{7})$ $+ \frac{2}{49}\sqrt{462}e^3 \otimes e_6$	{12359, 168, 2567, 3789, 12359, 168, 2567, 3789}
94:32	$0, 0, 0, 0, 0, \frac{11}{329}\sqrt{199}e^{14} - \frac{11}{329}\sqrt{251}e^{23}, \frac{11}{329}\sqrt{199}e^{13} + \frac{11}{329}\sqrt{251}e^{24},$ $-\frac{33}{329}\sqrt{10}e^{12} + \frac{11}{329}\sqrt{38}e^{34}, \frac{11}{329}\sqrt{322}e^{15}$	$(\frac{33}{329}, \frac{33}{329}, \frac{33}{329}, \frac{33}{329}, -\frac{121}{329}, \frac{66}{329}, \frac{66}{329}, \frac{66}{329}, -\frac{88}{329})$ $+ \frac{187}{329}\sqrt{2}e^2 \otimes e_9$	{12357, 1346789, 189, 2348, 2678, 3569, 12357, 1346789, 189, 2348, 2678, 3569}
94:32	$0, 0, 0, 0, 0, \frac{11}{329}\sqrt{199}e^{14} + \frac{11}{329}\sqrt{251}e^{23}, \frac{11}{329}\sqrt{199}e^{13} + \frac{11}{329}\sqrt{251}e^{24},$ $\frac{33}{329}\sqrt{10}e^{12} + \frac{11}{329}\sqrt{38}e^{34}, \frac{11}{329}\sqrt{322}e^{15}$	$(\frac{33}{329}, \frac{33}{329}, \frac{33}{329}, \frac{33}{329}, -\frac{121}{329}, \frac{66}{329}, \frac{66}{329}, \frac{66}{329}, -\frac{88}{329})$ $+ \frac{187}{329}\sqrt{2}e^2 \otimes e_9$	{12357, 12456, 1346789, 189, 2348, 2678, 3569, 4579, 12357, 12456, 1346789, 189, 2348, 2678, 3569, 4579}
94:32	$0, 0, 0, 0, 0, \frac{30}{329}\sqrt{35}e^{14} - \frac{15}{329}\sqrt{274}e^{23}, \frac{15}{329}\sqrt{143}e^{13} + \frac{45}{329}e^{24},$ $-\frac{15}{329}\sqrt{143}e^{12} + \frac{45}{329}e^{34}, \frac{30}{329}\sqrt{67}e^{15}$	$(-\frac{15}{329}, -\frac{15}{329}, -\frac{15}{329}, -\frac{15}{329}, \frac{195}{329}, -\frac{30}{329}, -\frac{30}{329}, -\frac{30}{329}, \frac{180}{329})$ $+ \frac{15}{329}\sqrt{566}e^5 \otimes e_6$	{1234578, 12689, 145, 2359, 2467, 5789, 1234578, 12689, 145, 2359, 2467, 5789}
94:32	$0, 0, 0, 0, 0, \frac{30}{329}\sqrt{35}e^{14} + \frac{15}{329}\sqrt{274}e^{23}, \frac{15}{329}\sqrt{143}e^{13} + \frac{45}{329}e^{24},$ $\frac{15}{329}\sqrt{143}e^{12} + \frac{45}{329}e^{34}, \frac{30}{329}\sqrt{67}e^{15}$	$(-\frac{15}{329}, -\frac{15}{329}, -\frac{15}{329}, -\frac{15}{329}, \frac{195}{329}, -\frac{30}{329}, -\frac{30}{329}, -\frac{30}{329}, \frac{180}{329})$ $+ \frac{15}{329}\sqrt{566}e^5 \otimes e_6$	{1234578, 12689, 13679, 145, 2359, 2467, 3468, 5789, 1234578, 12689, 13679, 145, 2359, 2467, 3468, 5789}
94:32	$0, 0, 0, 0, 0, \frac{13}{293}\sqrt{246}e^{14} - \frac{13}{293}\sqrt{138}e^{23}, \frac{13}{293}\sqrt{246}e^{13} + \frac{13}{293}\sqrt{138}e^{24},$ $-\frac{13}{293}\sqrt{246}e^{12} + \frac{13}{293}\sqrt{138}e^{34}, \frac{13}{293}\sqrt{230}e^{15}$	$(\frac{39}{293}, \frac{39}{293}, \frac{39}{293}, \frac{39}{293}, -\frac{130}{293}, \frac{78}{293}, \frac{78}{293}, \frac{78}{293}, -\frac{91}{293})$ $+ \frac{13}{293}\sqrt{538}e^1 \otimes e_5$	{1236, 1678, 2345678, 258, 1236, 1678, 2345678, 258}
94:32	$0, 0, 0, 0, 0, \frac{13}{293}\sqrt{246}e^{14} + \frac{13}{293}\sqrt{138}e^{23}, \frac{13}{293}\sqrt{246}e^{13} + \frac{13}{293}\sqrt{138}e^{24},$ $\frac{13}{293}\sqrt{246}e^{12} + \frac{13}{293}\sqrt{138}e^{34}, \frac{13}{293}\sqrt{230}e^{15}$	$(\frac{39}{293}, \frac{39}{293}, \frac{39}{293}, \frac{39}{293}, -\frac{130}{293}, \frac{78}{293}, \frac{78}{293}, \frac{78}{293}, -\frac{91}{293})$ $+ \frac{13}{293}\sqrt{538}e^1 \otimes e_5$	{1236, 1247, 1678, 2345678, 258, 357, 1236, 1247, 1678, 2345678, 258, 357}
94:33	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{1}{35}\sqrt{93}e^{13} + \frac{1}{35}\sqrt{102}e^{24},$ $\frac{1}{35}\sqrt{102}e^{15} + \frac{1}{35}\sqrt{93}e^{23}, \frac{1}{35}\sqrt{93}e^{14} + \frac{1}{35}\sqrt{93}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{195}e^3 \otimes e_9$	{3678, 4569}
94:33	$0, 0, 0, 0, 0, \frac{19}{441}\sqrt{262}e^{12}, \frac{19}{441}\sqrt{30}e^{13} + \frac{19}{441}\sqrt{238}e^{24},$ $\frac{19}{441}\sqrt{238}e^{15} + \frac{19}{441}\sqrt{30}e^{23}, \frac{76}{441}e^{14} + \frac{76}{441}e^{25}$	$(-\frac{95}{441}, -\frac{95}{441}, \frac{19}{49}, \frac{19}{49}, \frac{19}{49}, -\frac{190}{441}, \frac{76}{441}, \frac{76}{441}, \frac{76}{441})$ $+ \frac{19}{441}\sqrt{762}e^3 \otimes e_6$	{1239, 378}
94:34	$0, 0, 0, 0, 0, \frac{36}{161}\sqrt{7}e^{12}, \frac{6}{161}\sqrt{111}e^{13} + \frac{18}{161}\sqrt{13}e^{24},$ $\frac{6}{161}\sqrt{165}e^{15} + \frac{6}{161}\sqrt{222}e^{23}, \frac{6}{161}\sqrt{222}e^{14} + \frac{6}{161}\sqrt{291}e^{35}$	$(-\frac{12}{161}, -\frac{33}{161}, \frac{30}{161}, \frac{51}{161}, \frac{9}{161}, -\frac{45}{161}, \frac{18}{161}, -\frac{3}{161}, \frac{39}{161})$ $+ \frac{6}{161}\sqrt{435}e^5 \otimes e_6$	{12459, 168}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:34	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{183e^{12}}, \frac{6}{161}\sqrt{111e^{13}} + \frac{18}{161}\sqrt{13e^{24}},$ $\frac{6}{161}\sqrt{165e^{15}} + \frac{6}{161}\sqrt{213e^{23}}, \frac{6}{161}\sqrt{213e^{14}} + \frac{72}{161}e^{35}$	$(-\frac{12}{161}, -\frac{33}{161}, \frac{30}{161}, \frac{51}{161}, \frac{9}{161}, -\frac{45}{161}, \frac{18}{161}, -\frac{3}{161}, \frac{39}{161})$ $+ \frac{6}{161}\sqrt{435e^4} \otimes e_8$	{2578, 4679}
94:34	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{609e^{12}}, \frac{1}{49}\sqrt{651e^{13}} + \frac{3}{49}\sqrt{42e^{24}},$ $\frac{1}{49}\sqrt{462e^{15}} + \frac{1}{49}\sqrt{483e^{23}}, \frac{1}{49}\sqrt{483e^{14}} + \frac{1}{7}\sqrt{15e^{35}}$	$(\frac{1}{7}, \frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, 0, \frac{3}{7}, 0, \frac{1}{7}, -\frac{1}{7})$ $+ \frac{1}{49}\sqrt{1785e^2} \otimes e_9$	{2678, 4579}
94:34	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{3178e^{12}}, \frac{1}{81}\sqrt{1834e^{13}} + \frac{7}{81}\sqrt{30e^{24}},$ $\frac{13}{81}\sqrt{14e^{15}} + \frac{1}{81}\sqrt{1358e^{23}}, \frac{2}{81}\sqrt{238e^{14}} + \frac{8}{81}\sqrt{42e^{35}}$	$(-\frac{7}{81}, -\frac{7}{27}, \frac{7}{27}, \frac{35}{81}, \frac{7}{81}, -\frac{28}{81}, \frac{14}{81}, 0, \frac{28}{81})$ $+ \frac{1}{27}\sqrt{770e^3} \otimes e_6$	{167, 3789}
94:34	$0, 0, 0, 0, 0, \frac{31}{1029}\sqrt{586e^{12}}, \frac{31}{1029}\sqrt{371e^{13}} + \frac{31}{1029}\sqrt{534e^{24}},$ $\frac{62}{1029}\sqrt{26e^{15}} + \frac{31}{1029}\sqrt{167e^{23}}, \frac{62}{1029}\sqrt{102e^{14}} + \frac{31}{343}\sqrt{21e^{35}}$	$(-\frac{31}{343}, -\frac{310}{1029}, \frac{341}{1029}, \frac{186}{343}, \frac{124}{1029}, -\frac{403}{1029}, \frac{248}{1029}, \frac{31}{1029}, \frac{155}{343})$ $+ \frac{155}{1029}\sqrt{69e^4} \otimes e_6$	{124, 15689}
94:34	$0, 0, 0, 0, 0, \frac{4}{1267}\sqrt{21e^{12}}, \frac{1}{1267}\sqrt{1326e^{13}} + \frac{4}{1267}\sqrt{321e^{24}},$ $\frac{1}{1267}\sqrt{3894e^{15}} + \frac{1}{1267}\sqrt{4398e^{23}}, \frac{1}{1267}\sqrt{4398e^{14}} + \frac{9}{1267}\sqrt{46e^{35}}$	$(\frac{11}{1267}, \frac{25}{1267}, -\frac{17}{1267}, -\frac{31}{1267}, -\frac{3}{1267}, \frac{36}{1267}, -\frac{6}{1267}, \frac{8}{1267}, -\frac{20}{1267})$ $+ \frac{5}{1267}\sqrt{282e^5} \otimes e_7$	{135, 5689}
94:35	$0, 0, 0, 0, 0, \frac{30}{371}\sqrt{19e^{12}}, \frac{10}{371}\sqrt{105e^{14}} + \frac{5}{371}\sqrt{1338e^{23}},$ $\frac{165}{371}e^{15} + \frac{5}{371}\sqrt{933e^{34}}, -\frac{5}{371}\sqrt{591e^{13}} + \frac{15}{371}\sqrt{83e^{45}}$	$(-\frac{5}{371}, -\frac{75}{371}, \frac{65}{371}, -\frac{5}{371}, \frac{65}{371}, -\frac{80}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371})$ $+ \frac{5}{371}\sqrt{2022e^5} \otimes e_7$	{12678, 145, 2479, 5689, 12678, 145, 2479, 5689}
94:35	$0, 0, 0, 0, 0, \frac{30}{371}\sqrt{19e^{12}}, \frac{10}{371}\sqrt{105e^{14}} + \frac{5}{371}\sqrt{1338e^{23}},$ $\frac{165}{371}e^{15} + \frac{5}{371}\sqrt{933e^{34}}, \frac{5}{371}\sqrt{591e^{13}} + \frac{15}{371}\sqrt{83e^{45}}$	$(-\frac{5}{371}, -\frac{75}{371}, \frac{65}{371}, -\frac{5}{371}, \frac{65}{371}, -\frac{80}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371})$ $+ \frac{5}{371}\sqrt{2022e^5} \otimes e_7$	{12678, 145, 2479, 5689, 12678, 145, 2479, 5689}
94:35	$0, 0, 0, 0, 0, \frac{5}{371}\sqrt{1338e^{12}}, \frac{10}{371}\sqrt{105e^{14}} + \frac{30}{371}\sqrt{19e^{23}},$ $\frac{5}{371}\sqrt{933e^{15}} + \frac{165}{371}e^{34}, -\frac{5}{371}\sqrt{591e^{13}} + \frac{15}{371}\sqrt{83e^{45}}$	$(-\frac{5}{371}, -\frac{75}{371}, \frac{65}{371}, -\frac{5}{371}, \frac{65}{371}, -\frac{80}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371})$ $+ \frac{5}{371}\sqrt{2022e^4} \otimes e_6$	{12458, 167, 2569, 4789, 12458, 167, 2569, 4789}
94:35	$0, 0, 0, 0, 0, \frac{5}{371}\sqrt{1338e^{12}}, \frac{10}{371}\sqrt{105e^{14}} + \frac{30}{371}\sqrt{19e^{23}},$ $\frac{5}{371}\sqrt{933e^{15}} + \frac{165}{371}e^{34}, \frac{5}{371}\sqrt{591e^{13}} + \frac{15}{371}\sqrt{83e^{45}}$	$(-\frac{5}{371}, -\frac{75}{371}, \frac{65}{371}, -\frac{5}{371}, \frac{65}{371}, -\frac{80}{371}, -\frac{10}{371}, \frac{60}{371}, \frac{60}{371})$ $+ \frac{5}{371}\sqrt{2022e^4} \otimes e_6$	{12458, 167, 2569, 4789, 12458, 167, 2569, 4789}
94:35	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{14e^{12}}, \frac{2}{21}\sqrt{35e^{14}} + \frac{2}{21}\sqrt{14e^{23}},$ $\frac{2}{21}\sqrt{35e^{15}} + \frac{2}{21}\sqrt{7e^{34}}, -\frac{2}{21}\sqrt{35e^{13}} + \frac{2}{7}\sqrt{7e^{45}}$	$(0, -\frac{1}{3}, \frac{1}{3}, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{2}{7}\sqrt{14e^5} \otimes e_6$	{12359, 12457, 1346789, 168, 12359, 12457, 1346789, 168}
94:35	$0, 0, 0, 0, 0, \frac{4}{21}\sqrt{14e^{12}}, \frac{2}{21}\sqrt{35e^{14}} + \frac{2}{21}\sqrt{14e^{23}},$ $\frac{2}{21}\sqrt{35e^{15}} + \frac{2}{21}\sqrt{7e^{34}}, \frac{2}{21}\sqrt{35e^{13}} + \frac{2}{7}\sqrt{7e^{45}}$	$(0, -\frac{1}{3}, \frac{1}{3}, 0, \frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{2}{7}\sqrt{14e^5} \otimes e_6$	{12359, 12457, 1346789, 168, 12359, 12457, 1346789, 168}
94:35	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{186e^{12}}, \frac{4}{49}\sqrt{42e^{14}} + \frac{2}{49}\sqrt{186e^{23}},$ $\frac{10}{49}\sqrt{3e^{15}} + \frac{10}{49}\sqrt{3e^{34}}, -\frac{2}{49}\sqrt{87e^{13}} + \frac{2}{49}\sqrt{273e^{45}}$	$(\frac{4}{49}, \frac{18}{49}, -\frac{10}{49}, \frac{4}{49}, -\frac{10}{49}, \frac{22}{49}, \frac{8}{49}, -\frac{6}{49}, -\frac{6}{49})$ $+ \frac{2}{49}\sqrt{510e^2} \otimes e_9$	{123, 15689, 2678, 3579, 123, 15689, 2678, 3579}
94:35	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{186e^{12}}, \frac{4}{49}\sqrt{42e^{14}} + \frac{2}{49}\sqrt{186e^{23}},$ $\frac{10}{49}\sqrt{3e^{15}} + \frac{10}{49}\sqrt{3e^{34}}, \frac{2}{49}\sqrt{87e^{13}} + \frac{2}{49}\sqrt{273e^{45}}$	$(\frac{4}{49}, \frac{18}{49}, -\frac{10}{49}, \frac{4}{49}, -\frac{10}{49}, \frac{22}{49}, \frac{8}{49}, -\frac{6}{49}, -\frac{6}{49})$ $+ \frac{2}{49}\sqrt{510e^2} \otimes e_9$	{123, 15689, 2678, 3579, 123, 15689, 2678, 3579}
94:36	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{4}{49}\sqrt{19e^{13}} + \frac{2}{49}\sqrt{102e^{24}},$ $\frac{2}{49}\sqrt{66e^{14}} + \frac{4}{49}\sqrt{23e^{35}}, \frac{2}{49}\sqrt{66e^{23}} + \frac{2}{49}\sqrt{86e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{178e^1} \otimes e_9$	{1678, 2569}
94:36	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30e^{12}}, \frac{4}{49}\sqrt{19e^{13}} + \frac{4}{49}\sqrt{19e^{24}},$ $\frac{8}{49}\sqrt{7e^{14}} + \frac{2}{49}\sqrt{86e^{35}}, \frac{8}{49}\sqrt{7e^{23}} + \frac{2}{49}\sqrt{86e^{45}}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{178e^5} \otimes e_7$	{127, 589}
94:36	$0, 0, 0, 0, 0, \frac{18}{35}\sqrt{2e^{12}}, \frac{6}{35}\sqrt{10e^{13}} + \frac{3}{35}\sqrt{19e^{24}},$ $\frac{3}{35}\sqrt{43e^{14}} + \frac{24}{35}e^{35}, \frac{12}{35}e^{23} + \frac{3}{35}\sqrt{5e^{45}}$	$(-\frac{6}{35}, -\frac{6}{35}, \frac{3}{7}, \frac{3}{7}, -\frac{6}{35}, -\frac{12}{35}, \frac{9}{35}, \frac{9}{35}, \frac{9}{35})$ $+ \frac{3}{35}\sqrt{177e^3} \otimes e_6$	{167, 25689}
94:36	$0, 0, 0, 0, 0, \frac{5}{77}\sqrt{22e^{12}}, \frac{1}{77}\sqrt{10e^{13}} + \frac{1}{77}\sqrt{10e^{24}},$ $\frac{1}{77}\sqrt{430e^{14}} + \frac{1}{77}\sqrt{410e^{35}}, \frac{1}{77}\sqrt{430e^{23}} + \frac{1}{77}\sqrt{410e^{45}}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{9}{77}, \frac{9}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{4}{77}, \frac{4}{77}, \frac{4}{77})$ $+ \frac{1}{77}\sqrt{710e^5} \otimes e_6$	{345, 5789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
94:37	$0, 0, 0, 0, 0, \frac{41}{3269}\sqrt{1542}e^{12}, \frac{82}{3269}\sqrt{538}e^{13} + \frac{41}{3269}\sqrt{1758}e^{24},$ $\frac{41}{3269}\sqrt{466}e^{15} + \frac{82}{3269}\sqrt{305}e^{34}, \frac{82}{3269}\sqrt{263}e^{23} + \frac{41}{3269}\sqrt{2666}e^{45}$	$(\frac{1189}{3269}, \frac{41}{3269}, -\frac{533}{3269}, \frac{615}{3269}, -\frac{1107}{3269}, \frac{1230}{3269}, \frac{656}{3269}, \frac{82}{3269}, -\frac{492}{3269})$ $+ \frac{82}{3269}\sqrt{1405}e^1 \otimes e_9$	{1678, 25689}
94:37	$0, 0, 0, 0, 0, \frac{2}{749}\sqrt{21}e^{12}, \frac{1}{749}\sqrt{890}e^{13} + \frac{6}{749}\sqrt{22}e^{24},$ $\frac{4}{749}\sqrt{66}e^{15} + \frac{1}{749}\sqrt{222}e^{34}, \frac{6}{749}\sqrt{22}e^{23} + \frac{3}{749}\sqrt{102}e^{45}$	$(\frac{13}{749}, -\frac{1}{749}, -\frac{8}{749}, \frac{6}{749}, -\frac{15}{749}, \frac{12}{749}, \frac{5}{749}, -\frac{2}{749}, -\frac{9}{749})$ $+ \frac{1}{749}\sqrt{1390}e^2 \otimes e_8$	{234, 279}
94:37	$0, 0, 0, 0, 0, \frac{11}{2989}\sqrt{4618}e^{12}, \frac{22}{2989}\sqrt{31}e^{13} + \frac{33}{2989}\sqrt{82}e^{24},$ $\frac{11}{2989}\sqrt{3754}e^{15} + \frac{22}{2989}\sqrt{862}e^{34}, \frac{22}{2989}\sqrt{877}e^{23} + \frac{33}{2989}\sqrt{390}e^{45}$	$(-\frac{275}{2989}, \frac{33}{2989}, \frac{187}{2989}, -\frac{121}{2989}, \frac{341}{2989}, -\frac{242}{2989}, -\frac{88}{2989}, \frac{66}{2989}, \frac{220}{2989})$ $+ \frac{22}{2989}\sqrt{1385}e^4 \otimes e_6$	{124578, 489}
94:37	$0, 0, 0, 0, 0, \frac{37}{3101}\sqrt{3466}e^{12}, \frac{666}{3101}\sqrt{6}e^{13} + \frac{37}{3101}\sqrt{2942}e^{24},$ $\frac{111}{3101}\sqrt{334}e^{15} + \frac{74}{3101}\sqrt{761}e^{34}, \frac{296}{3101}\sqrt{3}e^{23} + \frac{37}{3101}\sqrt{1266}e^{45}$	$(-\frac{851}{3101}, \frac{185}{3101}, \frac{703}{3101}, -\frac{333}{3101}, \frac{1221}{3101}, -\frac{666}{3101}, -\frac{148}{3101}, \frac{370}{3101}, \frac{888}{3101})$ $+ \frac{370}{3101}\sqrt{55}e^3 \otimes e_6$	{123589, 378}
94:37	$0, 0, 0, 0, 0, \frac{5}{161}\sqrt{730}e^{12}, \frac{5}{161}\sqrt{30}e^{13} + \frac{40}{161}\sqrt{5}e^{24},$ $\frac{5}{161}\sqrt{30}e^{15} + \frac{5}{161}\sqrt{30}e^{34}, \frac{40}{161}\sqrt{5}e^{23} + \frac{5}{161}\sqrt{730}e^{45}$	$(-\frac{55}{161}, \frac{15}{161}, \frac{50}{161}, -\frac{20}{161}, \frac{85}{161}, -\frac{40}{161}, -\frac{5}{161}, \frac{30}{161}, \frac{65}{161})$ $+ \frac{5}{161}\sqrt{1370}e^5 \otimes e_6$	{234679, 26}
94:37	$0, 0, 0, 0, 0, \frac{111}{3101}\sqrt{226}e^{12}, \frac{666}{3101}\sqrt{6}e^{13} + \frac{37}{3101}\sqrt{2558}e^{24},$ $\frac{37}{3101}\sqrt{2494}e^{15} + \frac{74}{3101}\sqrt{614}e^{34}, \frac{296}{3101}\sqrt{3}e^{23} + \frac{37}{3101}\sqrt{1266}e^{45}$	$(-\frac{851}{3101}, \frac{185}{3101}, \frac{703}{3101}, -\frac{333}{3101}, \frac{1221}{3101}, -\frac{666}{3101}, -\frac{148}{3101}, \frac{370}{3101}, \frac{888}{3101})$ $+ \frac{370}{3101}\sqrt{55}e^5 \otimes e_7$	{12678, 5689}
94:38	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{138}e^{13} + \frac{3}{35}\sqrt{46}e^{24}, -\frac{1}{35}\sqrt{138}e^{12} + \frac{2}{35}\sqrt{69}e^{34},$ $\frac{1}{35}\sqrt{230}e^{15}, \frac{2}{35}\sqrt{69}e^{23} + \frac{1}{35}\sqrt{506}e^{45}$	$(-\frac{9}{35}, \frac{1}{7}, \frac{1}{7}, -\frac{9}{35}, \frac{19}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{35}\sqrt{345}e^5 \otimes e_6$	{12678, 14689, 2458, 5789, 12678, 14689, 2458, 5789}
94:38	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{138}e^{13} + \frac{3}{35}\sqrt{46}e^{24}, \frac{1}{35}\sqrt{138}e^{12} + \frac{2}{35}\sqrt{69}e^{34},$ $\frac{1}{35}\sqrt{230}e^{15}, \frac{2}{35}\sqrt{69}e^{23} + \frac{1}{35}\sqrt{506}e^{45}$	$(-\frac{9}{35}, \frac{1}{7}, \frac{1}{7}, -\frac{9}{35}, \frac{19}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{35}\sqrt{345}e^5 \otimes e_6$	{12678, 14689, 2458, 5789, 12678, 14689, 2458, 5789}
94:38	$0, 0, 0, 0, 0, \frac{3}{749}\sqrt{946}e^{13} + \frac{6}{749}\sqrt{221}e^{24}, -\frac{18}{749}\sqrt{7}e^{12} + \frac{3}{749}\sqrt{190}e^{34},$ $\frac{9}{749}\sqrt{138}e^{15}, \frac{6}{749}\sqrt{221}e^{23} + \frac{3}{749}\sqrt{1030}e^{45}$	$(\frac{33}{749}, -\frac{9}{749}, -\frac{9}{749}, \frac{33}{749}, -\frac{51}{749}, \frac{24}{749}, \frac{24}{749}, -\frac{18}{749}, -\frac{18}{749})$ $+ \frac{6}{749}\sqrt{347}e^2 \otimes e_8$	{123567, 124579, 234, 269, 123567, 124579, 234, 269}
94:38	$0, 0, 0, 0, 0, \frac{3}{749}\sqrt{946}e^{13} + \frac{6}{749}\sqrt{221}e^{24}, \frac{18}{749}\sqrt{7}e^{12} + \frac{3}{749}\sqrt{190}e^{34},$ $\frac{9}{749}\sqrt{138}e^{15}, \frac{6}{749}\sqrt{221}e^{23} + \frac{3}{749}\sqrt{1030}e^{45}$	$(\frac{33}{749}, -\frac{9}{749}, -\frac{9}{749}, \frac{33}{749}, -\frac{51}{749}, \frac{24}{749}, \frac{24}{749}, -\frac{18}{749}, -\frac{18}{749})$ $+ \frac{6}{749}\sqrt{347}e^2 \otimes e_8$	{123567, 124579, 234, 269, 123567, 124579, 234, 269}
94:38	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{186}e^{13} + \frac{10}{49}\sqrt{6}e^{24}, -\frac{2}{49}\sqrt{186}e^{12} + \frac{10}{49}\sqrt{6}e^{34},$ $\frac{4}{49}\sqrt{19}e^{15}, \frac{4}{49}\sqrt{6}e^{23} + \frac{4}{49}\sqrt{62}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{16}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{4}{49}\sqrt{87}e^1 \otimes e_9$	{123, 167, 2579, 123, 167, 2579}
94:38	$0, 0, 0, 0, 0, \frac{2}{49}\sqrt{186}e^{13} + \frac{10}{49}\sqrt{6}e^{24}, \frac{2}{49}\sqrt{186}e^{12} + \frac{10}{49}\sqrt{6}e^{34},$ $\frac{4}{49}\sqrt{19}e^{15}, \frac{4}{49}\sqrt{6}e^{23} + \frac{4}{49}\sqrt{62}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{16}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{4}{49}\sqrt{87}e^1 \otimes e_9$	{123, 167, 2579, 123, 167, 2579}
94:38	$0, 0, 0, 0, 0, \frac{18}{49}\sqrt{2}e^{13} + \frac{6}{49}\sqrt{22}e^{24}, -\frac{18}{49}\sqrt{2}e^{12} + \frac{6}{49}\sqrt{22}e^{34},$ $\frac{8}{49}\sqrt{17}e^{15}, \frac{4}{49}\sqrt{6}e^{23} + \frac{20}{49}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{16}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{4}{49}\sqrt{87}e^4 \otimes e_8$	{124579, 234, 467, 124579, 234, 467}
94:38	$0, 0, 0, 0, 0, \frac{18}{49}\sqrt{2}e^{13} + \frac{6}{49}\sqrt{22}e^{24}, \frac{18}{49}\sqrt{2}e^{12} + \frac{6}{49}\sqrt{22}e^{34},$ $\frac{8}{49}\sqrt{17}e^{15}, \frac{4}{49}\sqrt{6}e^{23} + \frac{20}{49}e^{45}$	$(\frac{12}{49}, -\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{16}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49}, -\frac{4}{49})$ $+ \frac{4}{49}\sqrt{87}e^4 \otimes e_8$	{124579, 234, 467, 124579, 234, 467}
9321:1	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{55158}e^{12}, \frac{1}{247}\sqrt{9510}e^{17}, \frac{2}{247}\sqrt{2219}e^{18}$	$(-\frac{43}{247}, \frac{160}{247}, -\frac{157}{247}, \frac{45}{247}, \frac{45}{247}, \frac{45}{247}, \frac{9}{247}, \frac{74}{247}, \frac{31}{247})$ $+ \frac{2}{247}\sqrt{32017}e^2 \otimes e_3$	{1245689, 124589, 12489, 1289, 134567, 13457, 1347, 137, 245678, 24578, 2478, 278, 34569, 3459, 349, 39}
9321:1	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{55158}e^{12}, \frac{2}{811}\sqrt{9510}e^{17}, \frac{4}{811}\sqrt{2219}e^{18}$	$(-\frac{86}{811}, \frac{320}{811}, \frac{407}{811}, -\frac{314}{811}, -\frac{227}{811}, \frac{90}{811}, \frac{234}{811}, \frac{148}{811}, \frac{62}{811})$ $+ \frac{4}{811}\sqrt{32017}e^2 \otimes e_4 + \frac{634}{811}e^3 \otimes e_5$	{123689, 12389, 125689, 12589, 13467, 1347, 14567, 1457, 23678, 2378, 25678, 2578, 3469, 349, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:1	$0, 0, 0, 0, 0, 0, \frac{14}{61}\sqrt{3}e^{12}, \frac{28}{61}e^{17}, \frac{14}{61}\sqrt{3}e^{18}$	$(\frac{2}{61}, \frac{9}{61}, 1, -\frac{37}{61}, \frac{12}{61}, \frac{12}{61}, \frac{11}{61}, \frac{13}{61}, \frac{15}{61})$ $+\frac{98}{61}e^3 \otimes e_4$	{123568, 12358, 1238, 124568, 12458, 1248, 135679, 13579, 1379, 145679, 14579, 1479, 2356789, 235789, 23789, 2456789, 245789, 24789, 3, 35, 356, 4, 45, 456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{1}{511}\sqrt{13359}e^{12}, \frac{6}{511}\sqrt{854}e^{17}, \frac{4}{511}\sqrt{3477}e^{18}$	$(\frac{15}{146}, -\frac{261}{1022}, \frac{134}{511}, -\frac{7}{73}, \frac{30}{73}, \frac{85}{1022}, -\frac{78}{511}, -\frac{51}{1022}, \frac{27}{511})$ $+\frac{183}{511}e^3 \otimes e_4 + \frac{1}{511}\sqrt{61305}e^5 \otimes e_9 + \frac{1}{511}\sqrt{76677}e^1 \otimes e_2$	{13568, 1358, 14568, 1458, 235, 2356, 245, 2456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{4}{811}\sqrt{2219}e^{12}, \frac{2}{811}\sqrt{9510}e^{17}, \frac{2}{811}\sqrt{55158}e^{18}$	$(-\frac{86}{811}, \frac{118}{811}, \frac{407}{811}, \frac{494}{811}, -\frac{227}{811}, \frac{90}{811}, \frac{32}{811}, -\frac{54}{811}, -\frac{140}{811})$ $+\frac{4}{811}\sqrt{32017}e^4 \otimes e_9 + \frac{634}{811}e^3 \otimes e_5$	{123679, 12379, 125679, 12579, 13468, 1348, 14568, 1458, 234, 2346, 245, 2456, 36789, 3789, 56789, 5789}
9321:1	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{4}{185}\sqrt{583}e^{17}, \frac{2}{185}\sqrt{1749}e^{18}$	$(\frac{22}{185}, -\frac{9}{185}, \frac{77}{185}, -\frac{84}{185}, -\frac{29}{185}, \frac{24}{185}, \frac{13}{185}, \frac{7}{37}, \frac{57}{185})$ $+\frac{106}{185}e^3 \otimes e_5 + \frac{12}{185}\sqrt{159}e^1 \otimes e_4$	{12368, 1238, 12568, 1258, 13679, 1379, 15679, 1579, 2346789, 234789, 2456789, 245789, 34, 346, 45, 456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{6}{499}\sqrt{763}e^{12}, \frac{12}{499}\sqrt{154}e^{17}, \frac{6}{499}\sqrt{763}e^{18}$	$(-\frac{42}{499}, \frac{111}{499}, -\frac{168}{499}, -\frac{15}{499}, \frac{111}{499}, \frac{48}{499}, \frac{69}{499}, \frac{27}{499}, -\frac{15}{499})$ $+\frac{126}{499}e^5 \otimes e_4 + \frac{12}{499}\sqrt{301}e^2 \otimes e_9 + \frac{36}{499}\sqrt{42}e^1 \otimes e_3$	{12468, 1248, 12568, 1258, 14679, 1479, 15679, 1579}
9321:1	$0, 0, 0, 0, 0, 0, \frac{8}{229}\sqrt{170}e^{12}, \frac{6}{229}\sqrt{85}e^{17}, \frac{8}{229}\sqrt{170}e^{18}$	$(-\frac{46}{229}, \frac{96}{229}, \frac{128}{229}, -\frac{74}{229}, \frac{27}{229}, \frac{27}{229}, \frac{50}{229}, \frac{4}{229}, -\frac{42}{229})$ $+\frac{2}{229}\sqrt{8585}e^2 \otimes e_4 + \frac{2}{229}\sqrt{8585}e^3 \otimes e_9$	{123568, 12358, 1238, 145679, 14579, 1479, 256789, 25789, 2789, 34, 345, 3456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{12}{25}e^{12}, \frac{6}{25}e^{17}, \frac{12}{25}e^{18}$	$(-\frac{6}{25}, \frac{12}{25}, \frac{12}{25}, -\frac{6}{25}, \frac{3}{25}, \frac{3}{25}, \frac{6}{25}, 0, -\frac{6}{25})$ $+\frac{18}{25}e^3 \otimes e_4 + \frac{6}{25}\sqrt{13}e^2 \otimes e_9$	{123568, 12358, 1238, 124568, 12458, 1248, 135679, 13579, 1379, 145679, 14579, 1479}
9321:1	$0, 0, 0, 0, 0, 0, \frac{4}{937}\sqrt{3649}e^{12}, \frac{4}{937}\sqrt{6765}e^{17}, \frac{8}{937}\sqrt{2337}e^{18}$	$(\frac{13}{937}, \frac{1}{937}, \frac{254}{937}, -\frac{315}{937}, \frac{368}{937}, -\frac{74}{937}, \frac{14}{937}, \frac{27}{937}, \frac{40}{937})$ $+\frac{328}{937}e^3 \otimes e_6 + \frac{36}{937}\sqrt{205}e^1 \otimes e_4 + \frac{4}{937}\sqrt{11398}e^5 \otimes e_9$	{12358, 12568, 1379, 1679, 234789, 246789, 345, 456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{7}{51}\sqrt{6}e^{12}, \frac{7}{51}\sqrt{34}e^{17}, \frac{14}{17}e^{18}$	$(\frac{19}{51}, -\frac{10}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{11}{51}, \frac{8}{51}, \frac{9}{17})$ $+\frac{14}{51}\sqrt{21}e^1 \otimes e_2$	{134568, 13458, 1348, 138, 18, 2, 23, 234, 2345, 23456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{6}{17}e^{12}, \frac{3}{17}e^{17}, \frac{6}{17}e^{18}$	$(-\frac{3}{17}, \frac{6}{17}, \frac{6}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{3}{17}, \frac{3}{17}, 0, -\frac{3}{17})$ $+\frac{3}{17}\sqrt{13}e^2 \otimes e_9 + \frac{9}{17}e^3 \otimes e_4 + \frac{9}{17}e^5 \otimes e_6$	{12358, 12368, 12468, 13579, 13679, 14679}
9321:1	$0, 0, 0, 0, 0, 0, \frac{7}{55}\sqrt{3}e^{12}, \frac{14}{55}e^{17}, \frac{7}{55}\sqrt{3}e^{18}$	$(\frac{1}{55}, \frac{9}{110}, \frac{61}{110}, \frac{61}{110}, -\frac{37}{110}, -\frac{37}{110}, \frac{1}{110}, \frac{13}{110}, \frac{3}{22})$ $+\frac{49}{55}e^3 \otimes e_5 + \frac{49}{55}e^4 \otimes e_6$	{12348, 12368, 12568, 13479, 13679, 15679, 234789, 236789, 256789, 34, 36, 56}
9321:1	$0, 0, 0, 0, 0, 0, \frac{3}{218}\sqrt{763}e^{12}, \frac{3}{109}\sqrt{154}e^{17}, \frac{3}{218}\sqrt{763}e^{18}$	$(-\frac{21}{218}, \frac{111}{436}, -\frac{42}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, \frac{69}{109}, \frac{27}{436}, -\frac{15}{436})$ $+\frac{3}{109}\sqrt{301}e^2 \otimes e_9 + \frac{9}{109}\sqrt{42}e^1 \otimes e_3$	{124568, 12458, 1248, 128, 145679, 14579, 1479, 179}
9321:1	$0, 0, 0, 0, 0, 0, \frac{13}{575}\sqrt{218}e^{12}, \frac{39}{575}\sqrt{22}e^{17}, \frac{13}{575}\sqrt{218}e^{18}$	$(-\frac{4}{115}, \frac{84}{575}, -\frac{189}{575}, -\frac{17}{115}, \frac{193}{575}, \frac{54}{575}, \frac{64}{575}, \frac{44}{575}, \frac{24}{575})$ $+\frac{117}{575}\sqrt{6}e^1 \otimes e_3 + \frac{13}{575}\sqrt{278}e^2 \otimes e_4 + \frac{13}{575}\sqrt{278}e^5 \otimes e_9$	{12568, 1258, 14679, 1479, 236789, 23789, 345, 3456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{2}{247}\sqrt{2219}e^{12}, \frac{1}{247}\sqrt{9510}e^{17}, \frac{1}{247}\sqrt{55158}e^{18}$	$(-\frac{43}{247}, \frac{59}{247}, 1, \frac{45}{247}, \frac{45}{247}, \frac{45}{247}, \frac{16}{247}, -\frac{27}{247}, -\frac{70}{247})$ $+\frac{1}{247}\sqrt{32017}e^3 \otimes e_9$	{1245679, 124579, 12479, 1279, 134568, 13458, 1348, 138, 23, 234, 2345, 23456, 456789, 45789, 4789, 789}
9321:1	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{170}e^{12}, \frac{3}{157}\sqrt{85}e^{17}, \frac{4}{157}\sqrt{170}e^{18}$	$(-\frac{23}{157}, \frac{48}{157}, \frac{56}{157}, -\frac{37}{157}, \frac{64}{157}, -\frac{29}{157}, \frac{25}{157}, \frac{2}{157}, -\frac{21}{157})$ $+\frac{1}{157}\sqrt{8585}e^2 \otimes e_4 + \frac{1}{157}\sqrt{8585}e^5 \otimes e_9 + \frac{85}{157}e^3 \otimes e_6$	{12358, 12568, 13479, 14679, 23789, 26789, 345, 456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{6}e^{12}, \frac{14}{151}\sqrt{34}e^{17}, \frac{84}{151}e^{18}$	$(\frac{38}{151}, -\frac{60}{151}, \frac{67}{151}, -\frac{31}{151}, \frac{18}{151}, \frac{18}{151}, -\frac{22}{151}, \frac{16}{151}, \frac{54}{151})$ $+\frac{28}{151}\sqrt{21}e^1 \otimes e_2 + \frac{98}{151}e^3 \otimes e_4$	{13568, 1358, 138, 14568, 1458, 148, 23, 235, 2356, 24, 245, 2456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:1	$0, 0, 0, 0, 0, 0, \frac{8}{937}\sqrt{2337}e^{12}, \frac{4}{937}\sqrt{6765}e^{17}, \frac{4}{937}\sqrt{3649}e^{18}$	$(\frac{13}{937}, \frac{140}{937}, -\frac{315}{937}, -\frac{188}{937}, \frac{254}{937}, -\frac{74}{937}, \frac{153}{937}, \frac{166}{937}, \frac{179}{937})$ $+ \frac{328}{937}e^5 \otimes e_6 + \frac{36}{937}\sqrt{205}e^1 \otimes e_3 + \frac{4}{937}\sqrt{11398}e^2 \otimes e_4$	{1258, 1268, 14579, 14679, 235789, 236789, 345, 346}
9321:1	$0, 0, 0, 0, 0, 0, \frac{7}{100}\sqrt{6}e^{12}, \frac{7}{100}\sqrt{34}e^{17}, \frac{21}{50}e^{18}$	$(\frac{19}{100}, -\frac{3}{10}, \frac{67}{200}, -\frac{31}{200}, \frac{67}{200}, -\frac{31}{200}, -\frac{11}{100}, \frac{2}{25}, \frac{27}{100})$ $+ \frac{49}{100}e^3 \otimes e_4 + \frac{49}{100}e^5 \otimes e_6 + \frac{7}{50}\sqrt{21}e^1 \otimes e_2$	{1358, 1368, 1468, 235, 236, 246}
9321:1	$0, 0, 0, 0, 0, 0, \frac{2}{839}\sqrt{13359}e^{12}, \frac{12}{839}\sqrt{854}e^{17}, \frac{8}{839}\sqrt{3477}e^{18}$	$(\frac{105}{839}, \frac{261}{839}, \frac{420}{839}, \frac{85}{839}, \frac{85}{839}, \frac{85}{839}, -\frac{156}{839}, -\frac{51}{839}, \frac{54}{839})$ $+ \frac{2}{839}\sqrt{61305}e^3 \otimes e_9 + \frac{2}{839}\sqrt{76677}e^1 \otimes e_2$	{134568, 13458, 1348, 138, 23, 234, 2345, 23456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{3}{4}e^{12}, \frac{3}{8}e^{17}, \frac{3}{4}e^{18}$	$(-\frac{3}{8}, \frac{3}{4}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{8}, 0, -\frac{3}{8})$ $+ \frac{3}{8}\sqrt{13}e^2 \otimes e_9$	{1234568, 123458, 12348, 1238, 128, 1345679, 134579, 13479, 1379, 179}
9321:1	$0, 0, 0, 0, 0, 0, \frac{8}{773}\sqrt{2337}e^{12}, \frac{4}{773}\sqrt{6765}e^{17}, \frac{4}{773}\sqrt{3649}e^{18}$	$(\frac{13}{773}, \frac{140}{773}, -\frac{315}{773}, -\frac{188}{773}, \frac{90}{773}, \frac{90}{773}, \frac{153}{773}, \frac{166}{773}, \frac{179}{773})$ $+ \frac{36}{773}\sqrt{205}e^1 \otimes e_3 + \frac{4}{773}\sqrt{11398}e^2 \otimes e_4$	{12568, 1258, 128, 145679, 14579, 1479, 2356789, 235789, 23789, 34, 345, 3456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{4}{773}\sqrt{3649}e^{12}, \frac{4}{773}\sqrt{6765}e^{17}, \frac{8}{773}\sqrt{2337}e^{18}$	$(\frac{13}{773}, \frac{1}{773}, \frac{368}{773}, -\frac{315}{773}, \frac{90}{773}, \frac{90}{773}, \frac{14}{773}, \frac{27}{773}, \frac{40}{773})$ $+ \frac{36}{773}\sqrt{205}e^1 \otimes e_4 + \frac{4}{773}\sqrt{11398}e^3 \otimes e_9$	{123568, 12358, 1238, 15679, 1579, 179, 2456789, 245789, 24789, 34, 345, 3456}
9321:1	$0, 0, 0, 0, 0, 0, \frac{1}{66}\sqrt{1749}e^{12}, \frac{1}{33}\sqrt{583}e^{17}, \frac{1}{66}\sqrt{1749}e^{18}$	$(\frac{1}{6}, -\frac{3}{44}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{13}{11}, \frac{35}{132}, \frac{19}{44})$ $+ \frac{1}{11}\sqrt{159}e^1 \otimes e_3$	{124568, 12458, 1248, 128, 145679, 14579, 1479, 179, 23456789, 2345789, 234789, 23789, 3, 34, 345, 3456}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{102}e^{12}, \frac{1}{56}\sqrt{357}e^{17}, \frac{1}{14}\sqrt{51}e^{18} + \frac{1}{14}\sqrt{102}e^{34}$	$(-\frac{17}{56}, \frac{5}{7}, -\frac{11}{112}, -\frac{11}{112}, \frac{3}{16}, \frac{3}{16}, \frac{23}{56}, \frac{3}{28}, -\frac{11}{56})$ $+ \frac{1}{56}\sqrt{4641}e^2 \otimes e_9$	{1234568, 123458, 12348, 12568, 1258, 128, 135679, 13579, 1379}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{146}e^{12}, \frac{3}{145}\sqrt{73}e^{17}, \frac{2}{145}\sqrt{365}e^{18} + \frac{6}{145}\sqrt{73}e^{34}$	$(-\frac{17}{145}, \frac{42}{145}, \frac{32}{145}, -\frac{41}{145}, \frac{64}{145}, -\frac{31}{145}, \frac{5}{29}, \frac{8}{145}, -\frac{9}{145})$ $+ \frac{1}{145}\sqrt{6497}e^2 \otimes e_6 + \frac{1}{145}\sqrt{7373}e^5 \otimes e_9 + \frac{73}{145}e^3 \otimes e_4$	{13679, 14679, 23789, 24789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{107}\sqrt{102}e^{12}, \frac{1}{107}\sqrt{357}e^{17}, \frac{4}{107}\sqrt{51}e^{18} + \frac{4}{107}\sqrt{102}e^{34}$	$(-\frac{17}{107}, \frac{40}{107}, \frac{20}{107}, -\frac{31}{107}, \frac{36}{107}, -\frac{15}{107}, \frac{23}{107}, \frac{6}{107}, -\frac{11}{107})$ $+ \frac{1}{107}\sqrt{4641}e^2 \otimes e_9 + \frac{51}{107}e^3 \otimes e_4 + \frac{51}{107}e^5 \otimes e_6$	{13579, 13679, 14579, 14679}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{1}{157}\sqrt{7171}e^{17}, \frac{9}{157}\sqrt{101}e^{18} + \frac{1}{157}\sqrt{1515}e^{34}$	$(\frac{38}{157}, -\frac{63}{157}, \frac{51}{314}, \frac{51}{314}, \frac{137}{314}, -\frac{65}{314}, -\frac{25}{157}, \frac{13}{157}, \frac{51}{157})$ $+ \frac{101}{157}e^5 \otimes e_6 + \frac{1}{157}\sqrt{17877}e^1 \otimes e_2$	{1358, 1368, 235, 236}
9321:2	$0, 0, 0, 0, 0, 0, \frac{8}{217}\sqrt{146}e^{12}, \frac{6}{217}\sqrt{73}e^{17}, \frac{4}{217}\sqrt{365}e^{18} + \frac{12}{217}\sqrt{73}e^{34}$	$(-\frac{34}{217}, \frac{12}{31}, -\frac{9}{217}, -\frac{9}{217}, \frac{128}{217}, -\frac{2}{7}, \frac{50}{217}, \frac{16}{217}, -\frac{18}{217})$ $+ \frac{2}{217}\sqrt{6497}e^2 \otimes e_6 + \frac{2}{217}\sqrt{7373}e^5 \otimes e_9$	{123458, 1258, 13679, 23789, 3456, 56}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{1}{157}\sqrt{7171}e^{17}, \frac{9}{157}\sqrt{101}e^{18} + \frac{1}{157}\sqrt{1515}e^{34}$	$(\frac{38}{157}, -\frac{63}{157}, \frac{76}{157}, -\frac{25}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{25}{157}, \frac{13}{157}, \frac{51}{157})$ $- \frac{101}{157}e^3 \otimes e_4 + \frac{1}{157}\sqrt{17877}e^1 \otimes e_2$	{13568, 1358, 138, 14568, 1458, 148, 23, 235, 2356, 24, 245, 2456}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{1}{157}\sqrt{7171}e^{17}, \frac{9}{157}\sqrt{101}e^{18} + \frac{1}{157}\sqrt{1515}e^{34}$	$(\frac{38}{157}, -\frac{63}{157}, \frac{76}{157}, -\frac{25}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{25}{157}, \frac{13}{157}, \frac{51}{157})$ $+ \frac{101}{157}e^3 \otimes e_4 + \frac{1}{157}\sqrt{17877}e^1 \otimes e_2$	{13568, 1358, 138, 14568, 1458, 148, 23, 235, 2356, 24, 245, 2456}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{501}e^{12}, \frac{2}{209}\sqrt{2338}e^{17}, \frac{2}{209}\sqrt{1002}e^{18} + \frac{4}{209}\sqrt{501}e^{34}$	$(\frac{10}{209}, \frac{30}{209}, \frac{197}{209}, -\frac{137}{209}, \frac{42}{209}, \frac{42}{209}, \frac{40}{209}, \frac{50}{209}, \frac{60}{209})$ $+ \frac{334}{209}e^3 \otimes e_4$	{135679, 13579, 1379, 145679, 14579, 1479, 2356789, 235789, 23789, 2456789, 245789, 24789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{45066}e^{12}, \frac{1}{391}\sqrt{7770}e^{17}, \frac{1}{391}\sqrt{22274}e^{18} + \frac{1}{391}\sqrt{45066}e^{34}$	$(-\frac{14}{391}, \frac{131}{391}, \frac{131}{391}, -\frac{42}{391}, -\frac{128}{391}, -\frac{128}{391}, \frac{117}{391}, \frac{103}{391}, \frac{89}{391})$ $+ \frac{1}{391}\sqrt{89614}e^2 \otimes e_5 + \frac{1}{391}\sqrt{89614}e^3 \otimes e_6$	{12389, 124689, 13457, 1567, 23478, 2678, 359, 4569}
9321:2	$0, 0, 0, 0, 0, 0, \frac{6}{229}\sqrt{141}e^{12}, \frac{1}{229}\sqrt{8930}e^{17}, \frac{1}{229}\sqrt{11562}e^{18} + \frac{1}{229}\sqrt{3290}e^{34}$	$(\frac{13}{458}, \frac{1}{458}, \frac{10}{229}, \frac{10}{229}, \frac{114}{229}, -\frac{175}{458}, \frac{7}{229}, \frac{27}{458}, \frac{20}{229})$ $+ \frac{2}{229}\sqrt{16262}e^5 \otimes e_9 + \frac{2}{229}\sqrt{5405}e^1 \otimes e_6$	{123458, 1258, 1379, 236789, 3456, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:2	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{102}e^{12}, \frac{2}{163}\sqrt{357}e^{17}, \frac{8}{163}\sqrt{51}e^{18} + \frac{8}{163}\sqrt{102}e^{34}$	$(-\frac{34}{163}, \frac{80}{163}, -\frac{11}{163}, -\frac{11}{163}, \frac{72}{163}, -\frac{30}{163}, \frac{46}{163}, \frac{12}{163}, -\frac{22}{163})$ $+ \frac{102}{163}e^5 \otimes e_6 + \frac{2}{163}\sqrt{4641}e^2 \otimes e_9$	{123458, 123468, 1258, 1268, 13579, 13679}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{8}{787}\sqrt{2365}e^{17},$ $\frac{6}{787}\sqrt{2365}e^{18} + \frac{4}{787}\sqrt{4730}e^{34}$	$(\frac{110}{787}, -\frac{39}{787}, \frac{275}{787}, \frac{16}{787}, -\frac{320}{787}, -\frac{155}{787}, \frac{71}{787}, \frac{181}{787}, \frac{291}{787})$ $+ \frac{2}{787}\sqrt{55685}e^3 \otimes e_6 + \frac{4}{787}\sqrt{22790}e^1 \otimes e_5$	{12348, 1268, 1379, 14679, 235789, 2456789, 345, 56}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{288}\sqrt{25010}e^{12}, \frac{1}{288}\sqrt{11590}e^{17},$ $\frac{1}{288}\sqrt{10065}e^{18} + \frac{1}{288}\sqrt{32635}e^{34}$	$(\frac{7}{64}, \frac{1}{36}, \frac{205}{1152}, \frac{205}{1152}, -\frac{45}{128}, -\frac{45}{128}, \frac{79}{576}, \frac{71}{576}, \frac{205}{576})$ $+ \frac{1}{576}\sqrt{158295}e^3 \otimes e_5 + \frac{1}{576}\sqrt{158295}e^4 \otimes e_6$	{123689, 1347, 1567, 23478, 25678, 369}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{501}e^{12}, \frac{2}{209}\sqrt{2338}e^{17}, \frac{2}{209}\sqrt{1002}e^{18} + \frac{4}{209}\sqrt{501}e^{34}$	$(\frac{10}{209}, \frac{30}{209}, \frac{30}{209}, \frac{30}{209}, 1, -\frac{125}{209}, \frac{40}{209}, \frac{50}{209}, \frac{60}{209})$ $+ \frac{334}{209}e^5 \otimes e_6$	{123458, 123468, 1258, 1268, 13579, 13679, 235789, 236789, 345, 346, 5, 6}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{2470}e^{17}, \frac{2}{243}\sqrt{4290}e^{18} + \frac{2}{243}\sqrt{754}e^{34}$	$(\frac{7}{54}, -\frac{145}{486}, \frac{11}{243}, \frac{11}{243}, \frac{14}{243}, \frac{17}{162}, -\frac{41}{243}, -\frac{19}{486}, \frac{22}{243})$ $+ \frac{2}{243}\sqrt{5226}e^5 \otimes e_9 + \frac{52}{81}e^1 \otimes e_2$	{134568, 13458, 1568, 158, 2345, 23456, 25, 256}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{669}\sqrt{11055}e^{12}, \frac{4}{669}\sqrt{14941}e^{17},$ $\frac{4}{669}\sqrt{11658}e^{18} + \frac{4}{223}\sqrt{134}e^{34}$	$(\frac{107}{669}, -\frac{15}{223}, \frac{46}{223}, \frac{46}{223}, -\frac{143}{223}, \frac{40}{223}, \frac{62}{669}, \frac{169}{669}, \frac{92}{223})$ $+ \frac{4}{223}\sqrt{4087}e^1 \otimes e_5$	{12368, 1238, 134679, 13479, 1679, 179, 23456789, 2345789, 256789, 25789, 35, 356}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{213}\sqrt{1515}e^{12}, \frac{2}{213}\sqrt{7171}e^{17}, \frac{6}{71}\sqrt{101}e^{18} + \frac{2}{213}\sqrt{1515}e^{34}$	$(\frac{76}{213}, -\frac{42}{71}, \frac{17}{71}, \frac{17}{71}, \frac{12}{71}, \frac{12}{71}, -\frac{50}{213}, \frac{26}{213}, \frac{34}{71})$ $+ \frac{2}{213}\sqrt{17877}e^1 \otimes e_2$	{13568, 1358, 138, 23, 235, 2356}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{7973}e^{12}, \frac{2}{2097}\sqrt{43282}e^{17},$ $\frac{2}{2097}\sqrt{105927}e^{18} + \frac{7}{2097}\sqrt{29614}e^{34}$	$(-\frac{16}{699}, \frac{214}{2097}, \frac{479}{2097}, -\frac{409}{2097}, \frac{403}{699}, -\frac{220}{2097}, \frac{166}{2097}, \frac{118}{2097}, \frac{70}{2097})$ $+ \frac{1}{699}\sqrt{248302}e^5 \otimes e_9 + \frac{4}{2097}\sqrt{126429}e^3 \otimes e_6$	{123458, 12568, 1379, 14679, 23789, 246789, 345, 56}
9321:2	$0, 0, 0, 0, 0, 0, \frac{12}{2033}\sqrt{3953}e^{12}, \frac{84}{2033}\sqrt{59}e^{17},$ $\frac{15}{2033}\sqrt{2006}e^{18} + \frac{6}{2033}\sqrt{6549}e^{34}$	$(-\frac{177}{2033}, \frac{555}{2033}, \frac{12}{2033}, \frac{12}{2033}, -\frac{708}{2033}, \frac{234}{2033}, \frac{378}{2033}, \frac{201}{2033}, \frac{24}{2033})$ $+ \frac{3}{2033}\sqrt{101126}e^2 \otimes e_9 + \frac{6}{2033}\sqrt{27789}e^1 \otimes e_5$	{123468, 12348, 1268, 128, 13679, 1379}
9321:2	$0, 0, 0, 0, 0, 0, \frac{5}{1949}\sqrt{38042}e^{12}, \frac{8}{1949}\sqrt{10751}e^{17},$ $\frac{8}{1949}\sqrt{5789}e^{18} + \frac{1}{1949}\sqrt{1654}e^{34}$	$(\frac{33}{1949}, \frac{353}{1949}, \frac{226}{1949}, \frac{226}{1949}, -\frac{794}{1949}, -\frac{474}{1949}, \frac{386}{1949}, \frac{419}{1949}, \frac{452}{1949})$ $+ \frac{1}{1949}\sqrt{1159454}e^2 \otimes e_6 + \frac{1}{1949}\sqrt{1688734}e^1 \otimes e_5$	{12348, 128, 13679, 235789, 3456, 56}
9321:2	$0, 0, 0, 0, 0, 0, \frac{22}{1371}\sqrt{1003}e^{12}, \frac{2}{4113}\sqrt{380314}e^{17},$ $\frac{2}{1371}\sqrt{66198}e^{18} + \frac{2}{4113}\sqrt{388102}e^{34}$	$(\frac{49}{457}, -\frac{857}{4113}, \frac{707}{4113}, -\frac{241}{4113}, \frac{196}{457}, -\frac{197}{1371}, -\frac{416}{4113}, \frac{25}{4113}, \frac{466}{4113})$ $+ \frac{2}{4113}\sqrt{909249}e^1 \otimes e_2 + \frac{2}{4113}\sqrt{913143}e^5 \otimes e_9 + \frac{4}{4113}\sqrt{153813}e^3 \otimes e_6$	{13458, 1568, 2345, 256}
9321:2	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{102}e^{12}, \frac{2}{163}\sqrt{357}e^{17}, \frac{8}{163}\sqrt{51}e^{18} + \frac{8}{163}\sqrt{102}e^{34}$	$(-\frac{34}{163}, \frac{80}{163}, \frac{40}{163}, -\frac{62}{163}, \frac{21}{163}, \frac{21}{163}, \frac{46}{163}, \frac{12}{163}, -\frac{22}{163})$ $+ \frac{102}{163}e^3 \otimes e_4 + \frac{2}{163}\sqrt{4641}e^2 \otimes e_9$	{135679, 13579, 1379, 145679, 14579, 1479}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{1}{81}\sqrt{910}e^{17}, \frac{7}{81}\sqrt{78}e^{18} + \frac{2}{81}\sqrt{910}e^{34}$	$(-\frac{1}{9}, \frac{17}{81}, -\frac{5}{81}, -\frac{5}{81}, 1, \frac{5}{27}, \frac{8}{81}, -\frac{1}{81}, -\frac{10}{81})$ $+ \frac{2}{81}\sqrt{3003}e^5 \otimes e_9$	{123679, 12379, 134568, 13458, 1568, 158, 2345, 23456, 25, 256, 36789, 3789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{94}\sqrt{501}e^{12}, \frac{1}{188}\sqrt{2338}e^{17}, \frac{1}{188}\sqrt{1002}e^{18} + \frac{1}{94}\sqrt{501}e^{34}$	$(\frac{5}{188}, \frac{15}{188}, \frac{197}{376}, -\frac{137}{376}, \frac{209}{376}, -\frac{125}{376}, \frac{5}{47}, \frac{25}{188}, \frac{15}{94})$ $+ \frac{167}{188}e^3 \otimes e_4 + \frac{167}{188}e^5 \otimes e_6$	{13579, 13679, 14579, 14679, 235789, 236789, 245789, 246789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{415}\sqrt{1515}e^{12}, \frac{2}{415}\sqrt{7171}e^{17},$ $\frac{18}{415}\sqrt{101}e^{18} + \frac{2}{415}\sqrt{1515}e^{34}$	$(\frac{76}{415}, -\frac{126}{415}, \frac{152}{415}, -\frac{10}{83}, \frac{137}{415}, -\frac{13}{83}, -\frac{10}{83}, \frac{26}{415}, \frac{102}{415})$ $- \frac{202}{415}e^3 \otimes e_4 + \frac{202}{415}e^5 \otimes e_6 + \frac{2}{415}\sqrt{17877}e^1 \otimes e_2$	{1358, 1368, 1458, 1468, 235, 236, 245, 246}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{415}\sqrt{1515}e^{12}, \frac{2}{415}\sqrt{7171}e^{17},$ $\frac{18}{415}\sqrt{101}e^{18} + \frac{2}{415}\sqrt{1515}e^{34}$	$(\frac{76}{415}, -\frac{126}{415}, \frac{152}{415}, -\frac{10}{83}, \frac{137}{415}, -\frac{13}{83}, -\frac{10}{83}, \frac{26}{415}, \frac{102}{415})$ $+ \frac{202}{415}e^3 \otimes e_4 + \frac{202}{415}e^5 \otimes e_6 + \frac{2}{415}\sqrt{17877}e^1 \otimes e_2$	{1358, 1368, 1458, 1468, 235, 236, 245, 246}
9321:2	$0, 0, 0, 0, 0, 0, \frac{6}{521}\sqrt{1313}e^{12}, \frac{12}{521}\sqrt{65}e^{17}, \frac{6}{521}\sqrt{221}e^{18} + \frac{12}{521}\sqrt{546}e^{34}$	$(-\frac{78}{521}, \frac{219}{521}, \frac{93}{521}, -\frac{108}{521}, -\frac{141}{521}, \frac{60}{521}, \frac{141}{521}, \frac{63}{521}, -\frac{15}{521})$ $+ \frac{156}{521}\sqrt{5}e^2 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^3 \otimes e_5$	{123468, 12348, 12568, 1258, 13679, 1379, 145679, 14579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{639}\sqrt{23777e^{12}}, \frac{4}{639}\sqrt{4030e^{17}},$ $\frac{2}{639}\sqrt{22971e^{18}} + \frac{2}{639}\sqrt{23374e^{34}}$	$(\frac{26}{213}, \frac{61}{639}, \frac{407}{639}, -\frac{112}{639}, -\frac{133}{213}, \frac{40}{213}, \frac{139}{639}, \frac{217}{639}, \frac{295}{639})$ $+ \frac{2}{639}\sqrt{209157e^3} \otimes e_5$	{123689, 12389, 1245689, 124589, 13467, 1347, 1567, 157, 234678, 23478, 25678, 2578, 369, 39, 4569, 459}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{937}\sqrt{11055e^{12}}, \frac{4}{937}\sqrt{14941e^{17}},$ $\frac{4}{937}\sqrt{11658e^{18}} + \frac{12}{937}\sqrt{134e^{34}}$	$(\frac{107}{937}, -\frac{45}{937}, \frac{406}{937}, -\frac{130}{937}, -\frac{429}{937}, \frac{120}{937}, \frac{62}{937}, \frac{169}{937}, \frac{276}{937})$ $+ \frac{12}{937}\sqrt{4087e^1} \otimes e_5 + \frac{536}{937}e^3 \otimes e_4$	{12368, 1238, 12468, 1248, 35, 356, 45, 456}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{23374e^{12}}, \frac{4}{639}\sqrt{4030e^{17}},$ $\frac{2}{639}\sqrt{22971e^{18}} + \frac{2}{639}\sqrt{23777e^{34}}$	$(-\frac{95}{639}, \frac{407}{639}, \frac{61}{639}, \frac{61}{639}, -\frac{133}{213}, \frac{40}{213}, \frac{104}{213}, \frac{217}{639}, \frac{122}{639})$ $+ \frac{2}{639}\sqrt{209157e^2} \otimes e_5$	{123689, 12389, 134567, 13457, 1567, 157, 234678, 23478, 2678, 278, 3569, 359}
9321:2	$0, 0, 0, 0, 0, 0, \frac{2}{521}\sqrt{23374e^{12}}, \frac{2}{521}\sqrt{4030e^{17}},$ $\frac{1}{521}\sqrt{22971e^{18}} + \frac{1}{521}\sqrt{23777e^{34}}$	$(-\frac{95}{1042}, \frac{407}{1042}, \frac{232}{521}, -\frac{171}{521}, -\frac{399}{1042}, \frac{60}{521}, \frac{156}{521}, \frac{217}{1042}, \frac{61}{521})$ $+ \frac{1}{521}\sqrt{209157e^2} \otimes e_5 + \frac{403}{521}e^3 \otimes e_4$	{123689, 12389, 124689, 12489, 3569, 359, 4569, 459}
9321:2	$0, 0, 0, 0, 0, 0, \frac{1}{276}\sqrt{141e^{12}}, \frac{1}{276}\sqrt{8930e^{17}},$ $\frac{1}{276}\sqrt{11562e^{18}} + \frac{1}{276}\sqrt{3290e^{34}}$	$(\frac{13}{552}, \frac{1}{552}, \frac{19}{92}, -\frac{37}{276}, \frac{19}{46}, -\frac{175}{552}, \frac{7}{276}, \frac{9}{184}, \frac{5}{69})$ $+ \frac{1}{138}\sqrt{5405e^1} \otimes e_6 + \frac{1}{276}\sqrt{16262e^5} \otimes e_9 + \frac{47}{138}e^3 \otimes e_4$	{1379, 1479, 236789, 246789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{4}{253}\sqrt{91e^{12}}, \frac{2}{253}\sqrt{910e^{17}}, \frac{14}{253}\sqrt{78e^{18}} + \frac{4}{253}\sqrt{910e^{34}}$	$(-\frac{18}{253}, \frac{34}{253}, \frac{81}{253}, -\frac{101}{253}, \frac{162}{253}, \frac{30}{253}, \frac{16}{253}, -\frac{2}{253}, -\frac{20}{253})$ $+ \frac{182}{253}e^3 \otimes e_4 + \frac{4}{253}\sqrt{3003e^5} \otimes e_9$	{123679, 12379, 124679, 12479, 36789, 3789, 46789, 4789}
9321:2	$0, 0, 0, 0, 0, 0, \frac{8}{1539}\sqrt{967e^{12}}, \frac{2}{1539}\sqrt{157621e^{17}},$ $\frac{1}{1539}\sqrt{551190e^{18}} + \frac{1}{1539}\sqrt{299770e^{34}}$	$(\frac{7}{27}, -\frac{568}{1539}, \frac{595}{1539}, \frac{34}{1539}, -\frac{124}{513}, \frac{7}{57}, -\frac{169}{1539}, \frac{230}{1539}, \frac{629}{1539})$ $+ \frac{1}{1539}\sqrt{1084974e^3} \otimes e_5 + \frac{1}{1539}\sqrt{1525926e^1} \otimes e_2$	{13468, 1348, 1568, 158, 234, 2346, 25, 256}
9321:3	$0, 0, 0, 0, 0, 0, \frac{3}{331}\sqrt{2310e^{12}}, \frac{21}{331}\sqrt{66e^{17}}, \frac{3}{331}\sqrt{2310e^{18}} + \frac{3}{331}\sqrt{462e^{23}}$	$(\frac{44}{331}, -\frac{23}{331}, \frac{132}{331}, -\frac{145}{331}, -\frac{57}{331}, \frac{43}{331}, \frac{21}{331}, \frac{65}{331}, \frac{109}{331})$ $+ \frac{30}{331}\sqrt{42e^3} \otimes e_5 + \frac{6}{331}\sqrt{1974e^1} \otimes e_4$	{12368, 1238, 13679, 1379, 2456789, 245789, 45, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{33}{311}\sqrt{2e^{12}}, \frac{6}{311}\sqrt{253e^{17}}, \frac{6}{311}\sqrt{341e^{18}} + \frac{3}{311}\sqrt{946e^{23}}$	$(\frac{19}{311}, -\frac{25}{311}, \frac{57}{311}, -\frac{80}{311}, \frac{131}{311}, \frac{42}{311}, \frac{6}{311}, \frac{13}{311}, \frac{32}{311})$ $+ \frac{3}{311}\sqrt{1562e^3} \otimes e_6 + \frac{3}{311}\sqrt{2398e^1} \otimes e_4 + \frac{6}{311}\sqrt{561e^5} \otimes e_9$	{12358, 1379, 246789, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{8}{1561}\sqrt{3295e^{12}}, \frac{1}{1561}\sqrt{430986e^{17}},$ $\frac{30}{1561}\sqrt{659e^{18}} + \frac{1}{1561}\sqrt{67218e^{23}}$	$(\frac{44}{1561}, -\frac{4}{223}, \frac{132}{1561}, \frac{109}{223}, -\frac{615}{1561}, \frac{183}{1561}, \frac{16}{1561}, \frac{60}{1561}, \frac{104}{1561})$ $+ \frac{2}{1561}\sqrt{191110e^4} \otimes e_9 + \frac{2}{1561}\sqrt{262941e^1} \otimes e_5$	{123468, 12348, 13679, 1379, 256789, 25789, 45, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{387}\sqrt{330e^{12}}, \frac{1}{387}\sqrt{2090e^{17}}, \frac{2}{387}\sqrt{330e^{18}} + \frac{50}{387}\sqrt{11e^{23}}$	$(\frac{7}{387}, \frac{2}{43}, \frac{7}{129}, -\frac{92}{387}, \frac{149}{387}, -\frac{89}{387}, \frac{25}{387}, \frac{32}{387}, \frac{13}{129})$ $+ \frac{1}{387}\sqrt{26510e^2} \otimes e_4 + \frac{1}{387}\sqrt{26510e^5} \otimes e_9 + \frac{5}{387}\sqrt{1034e^3} \otimes e_6$	{12358, 13479, 26789, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{22}{4445}\sqrt{7230e^{12}}, \frac{6}{4445}\sqrt{64106e^{17}},$ $\frac{6}{4445}\sqrt{43862e^{18}} + \frac{2}{4445}\sqrt{328242e^{23}}$	$(-\frac{32}{889}, \frac{138}{635}, -\frac{96}{889}, -\frac{1606}{4445}, \frac{1117}{4445}, -\frac{47}{635}, \frac{806}{4445}, \frac{646}{4445}, \frac{486}{4445})$ $+ \frac{1446}{4445}e^5 \otimes e_6 + \frac{8}{4445}\sqrt{60009e^2} \otimes e_3 + \frac{8}{889}\sqrt{3615e^1} \otimes e_4$	{1258, 1268, 345, 346}
9321:3	$0, 0, 0, 0, 0, 0, \frac{4}{251}\sqrt{262e^{12}}, \frac{1}{251}\sqrt{1965e^{17}}, \frac{4}{251}\sqrt{393e^{18}} + \frac{4}{251}\sqrt{393e^{23}}$	$(-\frac{25}{251}, \frac{56}{251}, -\frac{75}{251}, \frac{88}{251}, \frac{112}{251}, -\frac{43}{251}, \frac{31}{251}, \frac{6}{251}, -\frac{19}{251})$ $+ \frac{131}{251}e^4 \otimes e_6 + \frac{1}{251}\sqrt{23449e^5} \otimes e_9 + \frac{7}{251}\sqrt{393e^2} \otimes e_3$	{13479, 13679, 24789, 26789}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{495}\sqrt{2702e^{12}}, \frac{2}{495}\sqrt{386e^{17}},$ $\frac{2}{495}\sqrt{2702e^{18}} + \frac{2}{495}\sqrt{21230e^{23}}$	$(\frac{64}{495}, -\frac{14}{165}, \frac{64}{165}, \frac{247}{495}, -\frac{194}{495}, -\frac{139}{495}, \frac{2}{45}, \frac{86}{495}, \frac{10}{33})$ $+ \frac{386}{495}e^4 \otimes e_6 + \frac{4}{495}\sqrt{11966e^3} \otimes e_5$	{12347, 12367, 13489, 13689, 2459, 2569, 4578, 5678}
9321:3	$0, 0, 0, 0, 0, 0, \frac{11}{1861}\sqrt{7230e^{12}}, \frac{3}{1861}\sqrt{64106e^{17}},$ $\frac{3}{1861}\sqrt{43862e^{18}} + \frac{1}{1861}\sqrt{328242e^{23}}$	$(-\frac{80}{1861}, \frac{483}{1861}, -\frac{240}{1861}, -\frac{803}{1861}, \frac{197}{1861}, \frac{197}{1861}, \frac{403}{1861}, \frac{323}{1861}, \frac{243}{1861})$ $+ \frac{20}{1861}\sqrt{3615e^1} \otimes e_4 + \frac{4}{1861}\sqrt{60009e^2} \otimes e_3$	{12568, 1258, 128, 34, 345, 3456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{6290e^{12}}, \frac{2}{271}\sqrt{1554e^{17}},$ $\frac{1}{271}\sqrt{6290e^{18}} + \frac{1}{271}\sqrt{4218e^{23}}$	$(-\frac{1}{271}, \frac{27}{271}, -\frac{3}{271}, -\frac{75}{271}, \frac{98}{495}, -\frac{47}{271}, \frac{26}{271}, \frac{25}{271}, \frac{24}{271})$ $+ \frac{1}{271}\sqrt{10730e^2} \otimes e_6 + \frac{1}{271}\sqrt{10730e^5} \otimes e_9 + \frac{1}{271}\sqrt{14874e^1} \otimes e_4$	{12358, 13679, 24789, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{21230e^{12}}, \frac{3}{151}\sqrt{386e^{17}},$ $\frac{1}{151}\sqrt{2702e^{18}} + \frac{1}{151}\sqrt{2702e^{23}}$	$(-\frac{30}{151}, \frac{103}{151}, -\frac{90}{151}, \frac{27}{151}, \frac{27}{151}, \frac{27}{151}, \frac{73}{151}, \frac{43}{151}, \frac{13}{151})$ $+ \frac{1}{151}\sqrt{11966e^2} \otimes e_3$	{134567, 13457, 1347, 137, 245678, 24578, 2478, 278}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:3	$0, 0, 0, 0, 0, 0, \frac{22}{151}\sqrt{6}e^{12}, \frac{22}{151}\sqrt{10}e^{17}, \frac{22}{151}\sqrt{6}e^{18} + \frac{22}{151}\sqrt{6}e^{23}$	$(\frac{8}{151}, \frac{18}{151}, \frac{24}{151}, 1, -\frac{91}{151}, \frac{30}{151}, \frac{26}{151}, \frac{34}{151}, \frac{42}{151})$ $+ \frac{242}{151}e^4 \otimes e_5$	{123468, 12348, 123568, 12358, 134679, 13479, 135679, 13579, 246789, 24789, 256789, 25789, 4, 46, 5, 56}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{571}\sqrt{5795}e^{12}, \frac{1}{571}\sqrt{12810}e^{17}, \frac{2}{571}\sqrt{5795}e^{18} + \frac{5}{571}\sqrt{4026}e^{23}$	$(-\frac{34}{571}, \frac{114}{571}, -\frac{102}{571}, \frac{317}{571}, -\frac{191}{571}, \frac{63}{571}, \frac{80}{571}, \frac{46}{571}, \frac{12}{571})$ $+ \frac{2}{571}\sqrt{38735}e^2 \otimes e_5 + \frac{2}{571}\sqrt{38735}e^4 \otimes e_9$	{123468, 12348, 135679, 13579, 26789, 2789, 45, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{1}{154}\sqrt{14529}e^{12}, \frac{3}{154}\sqrt{334}e^{17}, \frac{1}{77}\sqrt{1670}e^{18} + \frac{1}{154}\sqrt{14529}e^{23}$	$(-\frac{1}{28}, \frac{67}{154}, -\frac{3}{28}, -\frac{50}{77}, \frac{27}{154}, \frac{27}{154}, \frac{123}{308}, \frac{4}{11}, \frac{101}{308})$ $+ \frac{1}{154}\sqrt{42418}e^2 \otimes e_4$	{125689, 12589, 1289, 14567, 1457, 147, 235678, 23578, 2378, 34569, 3459, 349}
9321:3	$0, 0, 0, 0, 0, 0, \frac{4}{475}\sqrt{1670}e^{12}, \frac{6}{475}\sqrt{334}e^{17}, \frac{2}{475}\sqrt{14529}e^{18} + \frac{2}{475}\sqrt{14529}e^{23}$	$(-\frac{11}{475}, \frac{7}{475}, -\frac{33}{475}, \frac{221}{475}, \frac{308}{475}, -\frac{113}{475}, -\frac{4}{475}, -\frac{3}{475}, -\frac{26}{475})$ $+ \frac{2}{475}\sqrt{42418}e^5 \otimes e_9 + \frac{334}{475}e^4 \otimes e_6$	{12479, 12679, 1458, 1568, 2345, 2356, 34789, 36789}
9321:3	$0, 0, 0, 0, 0, 0, \frac{4}{3325}\sqrt{80842}e^{12}, \frac{2}{3325}\sqrt{281973}e^{17}, \frac{6}{3325}\sqrt{34577}e^{18} + \frac{2}{665}\sqrt{1461}e^{23}$	$(-\frac{29}{665}, \frac{77}{475}, -\frac{87}{665}, -\frac{1119}{3325}, \frac{154}{475}, \frac{309}{3325}, \frac{394}{3325}, \frac{249}{3325}, \frac{104}{3325})$ $+ \frac{2}{3325}\sqrt{374503}e^5 \otimes e_9 + \frac{4}{3325}\sqrt{173859}e^1 \otimes e_4 + \frac{6}{3325}\sqrt{44317}e^2 \otimes e_3$	{12568, 1258, 345, 3456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{11}{53}\sqrt{10}e^{12}, \frac{11}{159}\sqrt{106}e^{17}, \frac{11}{53}\sqrt{10}e^{18} + \frac{11}{159}\sqrt{42}e^{23}$	$(\frac{16}{159}, \frac{1}{53}, \frac{16}{53}, -\frac{35}{53}, \frac{9}{53}, \frac{9}{53}, \frac{19}{159}, \frac{35}{159}, \frac{17}{53})$ $+ \frac{22}{159}\sqrt{66}e^1 \otimes e_4$	{12568, 1258, 128, 15679, 1579, 179, 23456789, 2345789, 234789, 34, 345, 3456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{124318}e^{12}, \frac{1}{2001}\sqrt{132470}e^{17}, \frac{2}{2001}\sqrt{121261}e^{18} + \frac{1}{2001}\sqrt{1355270}e^{23}$	$(\frac{124}{2001}, \frac{250}{2001}, \frac{124}{667}, -\frac{769}{2001}, -\frac{647}{2001}, \frac{65}{667}, \frac{374}{2001}, \frac{166}{667}, \frac{622}{2001})$ $+ \frac{2}{2001}\sqrt{428999}e^3 \otimes e_5 + \frac{2}{2001}\sqrt{491158}e^2 \otimes e_4$	{125689, 12589, 14567, 1457, 23678, 2378, 3469, 349}
9321:3	$0, 0, 0, 0, 0, 0, \frac{30}{1561}\sqrt{659}e^{12}, \frac{1}{1561}\sqrt{430986}e^{17}, \frac{8}{1561}\sqrt{3295}e^{18} + \frac{1}{1561}\sqrt{67218}e^{23}$	$(\frac{44}{1561}, \frac{262}{1561}, \frac{132}{1561}, -\frac{615}{1561}, -\frac{397}{1561}, \frac{183}{1561}, \frac{306}{1561}, \frac{50}{1561}, \frac{394}{1561})$ $+ \frac{2}{1561}\sqrt{191110}e^2 \otimes e_5 + \frac{2}{1561}\sqrt{262941}e^1 \otimes e_4$	{12368, 1238, 135679, 13579, 246789, 24789, 45, 456}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{495}\sqrt{21230}e^{12}, \frac{2}{165}\sqrt{386}e^{17}, \frac{2}{495}\sqrt{2702}e^{18} + \frac{2}{495}\sqrt{2702}e^{23}$	$(-\frac{4}{33}, \frac{206}{495}, -\frac{4}{11}, \frac{247}{495}, -\frac{139}{495}, \frac{6}{55}, \frac{146}{495}, \frac{86}{495}, \frac{26}{495})$ $+ \frac{386}{495}e^4 \otimes e_5 + \frac{4}{495}\sqrt{11966}e^2 \otimes e_3$	{13467, 1347, 13567, 1357, 24678, 2478, 25678, 2578}
9321:3	$0, 0, 0, 0, 0, 0, \frac{1}{154}\sqrt{1670}e^{12}, \frac{3}{154}\sqrt{334}e^{17}, \frac{1}{154}\sqrt{14529}e^{18} + \frac{1}{154}\sqrt{14529}e^{23}$	$(-\frac{1}{28}, \frac{1}{44}, -\frac{3}{28}, 1, \frac{27}{154}, \frac{27}{154}, -\frac{1}{77}, -\frac{15}{308}, -\frac{13}{154})$ $+ \frac{1}{154}\sqrt{42418}e^4 \otimes e_9$	{125679, 12579, 1279, 14568, 1458, 148, 234, 2345, 23456, 356789, 35789, 3789}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{475}\sqrt{14529}e^{12}, \frac{6}{475}\sqrt{334}e^{17}, \frac{4}{475}\sqrt{1670}e^{18} + \frac{2}{475}\sqrt{14529}e^{23}$	$(-\frac{11}{475}, \frac{134}{475}, -\frac{33}{475}, \frac{221}{475}, -\frac{8}{19}, -\frac{113}{475}, \frac{123}{475}, \frac{112}{475}, \frac{101}{475})$ $+ \frac{2}{475}\sqrt{42418}e^2 \otimes e_5 + \frac{334}{475}e^4 \otimes e_6$	{12489, 12689, 1457, 1567, 23478, 23678, 3459, 3569}
9321:3	$0, 0, 0, 0, 0, 0, \frac{2}{2001}\sqrt{121261}e^{12}, \frac{1}{2001}\sqrt{132470}e^{17}, \frac{2}{2001}\sqrt{124318}e^{18} + \frac{1}{2001}\sqrt{1355270}e^{23}$	$(\frac{124}{2001}, -\frac{8}{69}, \frac{124}{667}, \frac{1159}{2001}, -\frac{647}{2001}, \frac{65}{667}, -\frac{36}{667}, \frac{16}{2001}, \frac{140}{2001})$ $+ \frac{2}{2001}\sqrt{428999}e^3 \otimes e_5 + \frac{2}{2001}\sqrt{491158}e^4 \otimes e_9$	{125679, 12579, 14568, 1458, 234, 2346, 36789, 3789}
9321:3	$0, 0, 0, 0, 0, 0, \frac{66}{439}\sqrt{10}e^{12}, \frac{22}{439}\sqrt{106}e^{17}, \frac{66}{439}\sqrt{10}e^{18} + \frac{22}{439}\sqrt{42}e^{23}$	$(\frac{32}{439}, \frac{6}{439}, \frac{96}{439}, \frac{175}{439}, -\frac{210}{439}, -\frac{67}{439}, \frac{38}{439}, \frac{70}{439}, \frac{102}{439})$ $+ \frac{242}{439}e^4 \otimes e_6 + \frac{44}{439}\sqrt{66}e^1 \otimes e_5$	{1248, 1268, 1479, 1679, 2345789, 2356789, 345, 356}
9321:3	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{2702}e^{12}, \frac{3}{151}\sqrt{386}e^{17}, \frac{1}{151}\sqrt{2702}e^{18} + \frac{1}{151}\sqrt{21230}e^{23}$	$(\frac{32}{151}, -\frac{21}{151}, \frac{96}{151}, -\frac{97}{151}, \frac{27}{151}, \frac{27}{151}, \frac{11}{151}, \frac{43}{151}, \frac{75}{151})$ $+ \frac{2}{151}\sqrt{11966}e^3 \otimes e_4$	{123567, 12357, 1237, 135689, 13589, 1389, 24569, 2459, 249, 45678, 4578, 478}
9321:3	$0, 0, 0, 0, 0, 0, \frac{8}{371}\sqrt{262}e^{12}, \frac{2}{371}\sqrt{1965}e^{17}, \frac{8}{371}\sqrt{393}e^{18} + \frac{8}{371}\sqrt{393}e^{23}$	$(-\frac{50}{371}, \frac{16}{53}, -\frac{150}{371}, \frac{32}{53}, \frac{45}{371}, \frac{45}{371}, \frac{62}{371}, \frac{12}{371}, -\frac{38}{371})$ $+ \frac{2}{371}\sqrt{23449}e^4 \otimes e_9 + \frac{2}{53}\sqrt{393}e^2 \otimes e_3$	{135679, 13579, 1379, 256789, 25789, 2789}
9321:4	$0, 0, 0, 0, 0, 0, \frac{144}{289}e^{12}, \frac{18}{289}\sqrt{13}e^{17}, \frac{72}{289}e^{18} + \frac{72}{289}\sqrt{3}e^{34} + \frac{72}{289}\sqrt{3}e^{56}$	$(-\frac{54}{289}, \frac{144}{289}, \frac{72}{289}, -\frac{90}{289}, -\frac{9}{289}, -\frac{9}{289}, \frac{90}{289}, \frac{36}{289}, -\frac{18}{289})$ $+ \frac{162}{289}e^3 \otimes e_4 + \frac{234}{289}e^2 \otimes e_9$	{13579, 14579}
9321:4	$0, 0, 0, 0, 0, 0, \frac{72}{185}e^{12}, \frac{9}{185}\sqrt{13}e^{17}, \frac{36}{185}e^{18} + \frac{36}{185}\sqrt{3}e^{34} + \frac{36}{185}\sqrt{3}e^{56}$	$(-\frac{27}{185}, \frac{72}{185}, \frac{36}{185}, -\frac{9}{37}, \frac{36}{185}, -\frac{9}{37}, \frac{9}{37}, \frac{18}{185}, -\frac{9}{185})$ $+ \frac{117}{185}e^2 \otimes e_9 + \frac{81}{185}e^3 \otimes e_4 + \frac{81}{185}e^5 \otimes e_6$	{13579, 13679, 14679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:4	$0, 0, 0, 0, 0, 0, \frac{76}{1129}\sqrt{15}e^{12}, \frac{608}{1129}e^{17},$ $\frac{114}{1129}\sqrt{34}e^{18} + \frac{114}{1129}\sqrt{5}e^{34} + \frac{114}{1129}\sqrt{5}e^{56}$	$(\frac{266}{1129}, -\frac{456}{1129}, \frac{532}{1129}, -\frac{190}{1129}, \frac{171}{1129}, \frac{171}{1129}, -\frac{190}{1129}, \frac{76}{1129}, \frac{342}{1129})$ $+ \frac{38}{1129}\sqrt{642}e^1 \otimes e_2 + \frac{722}{1129}e^3 \otimes e_4$	{1358, 1458, 235, 245}
9321:4	$0, 0, 0, 0, 0, 0, \frac{76}{1129}\sqrt{15}e^{12}, \frac{608}{1129}e^{17},$ $\frac{114}{1129}\sqrt{34}e^{18} + \frac{114}{1129}\sqrt{5}e^{34} + \frac{114}{1129}\sqrt{5}e^{56}$	$(\frac{266}{1129}, -\frac{456}{1129}, \frac{532}{1129}, -\frac{190}{1129}, \frac{171}{1129}, \frac{171}{1129}, -\frac{190}{1129}, \frac{76}{1129}, \frac{342}{1129})$ $+ \frac{38}{1129}\sqrt{642}e^1 \otimes e_2 - \frac{722}{1129}e^3 \otimes e_4$	{1358, 1458, 235, 245}
9321:4	$0, 0, 0, 0, 0, 0, \frac{1}{344}\sqrt{1830}e^{12}, \frac{1}{344}\sqrt{7930}e^{17},$ $\frac{1}{344}\sqrt{1830}e^{18} + \frac{3}{344}\sqrt{610}e^{34} + \frac{3}{344}\sqrt{610}e^{56}$	$(\frac{11}{344}, \frac{27}{344}, \frac{365}{688}, -\frac{245}{688}, \frac{365}{688}, -\frac{245}{688}, \frac{19}{344}, \frac{49}{344}, \frac{15}{86})$ $+ \frac{305}{344}e^3 \otimes e_4 + \frac{305}{344}e^5 \otimes e_6$	{13579, 13679, 14679, 235789, 236789, 246789}
9321:4	$0, 0, 0, 0, 0, 0, \frac{72}{185}e^{12}, \frac{9}{185}\sqrt{13}e^{17},$ $\frac{36}{185}e^{18} + \frac{36}{185}\sqrt{3}e^{34} + \frac{36}{185}\sqrt{3}e^{56}$	$(-\frac{27}{185}, \frac{72}{185}, \frac{36}{185}, -\frac{9}{37}, \frac{36}{185}, -\frac{9}{37}, \frac{9}{37}, \frac{18}{185}, -\frac{9}{185})$ $+ \frac{117}{185}e^2 \otimes e_9 + \frac{81}{185}e^3 \otimes e_4 - \frac{81}{185}e^5 \otimes e_6$	{13579, 13679, 14679}
9321:4	$0, 0, 0, 0, 0, 0, \frac{1}{344}\sqrt{1830}e^{12}, \frac{1}{344}\sqrt{7930}e^{17},$ $\frac{1}{344}\sqrt{1830}e^{18} + \frac{3}{344}\sqrt{610}e^{34} + \frac{3}{344}\sqrt{610}e^{56}$	$(\frac{11}{344}, \frac{27}{344}, \frac{365}{688}, -\frac{245}{688}, \frac{365}{688}, -\frac{245}{688}, \frac{19}{344}, \frac{49}{344}, \frac{15}{86})$ $+ \frac{305}{344}e^3 \otimes e_4 + \frac{305}{344}e^5 \otimes e_6$	{13579, 13679, 14679, 235789, 236789, 246789}
9321:4	$0, 0, 0, 0, 0, 0, \frac{4}{383}\sqrt{1830}e^{12}, \frac{2}{383}\sqrt{7930}e^{17},$ $\frac{2}{383}\sqrt{1830}e^{18} + \frac{6}{383}\sqrt{610}e^{34} + \frac{6}{383}\sqrt{610}e^{56}$	$(\frac{22}{383}, \frac{54}{383}, \frac{365}{383}, -\frac{245}{383}, \frac{60}{383}, \frac{60}{383}, \frac{76}{383}, \frac{98}{383}, \frac{120}{383})$ $+ \frac{610}{383}e^3 \otimes e_4$	{13579, 14579, 235789, 245789}
9321:4	$0, 0, 0, 0, 0, 0, \frac{38}{745}\sqrt{15}e^{12}, \frac{304}{745}e^{17},$ $\frac{57}{745}\sqrt{34}e^{18} + \frac{57}{745}\sqrt{5}e^{34} + \frac{57}{745}\sqrt{5}e^{56}$	$(\frac{133}{745}, -\frac{228}{745}, \frac{266}{745}, -\frac{19}{149}, \frac{266}{745}, -\frac{19}{149}, -\frac{19}{149}, \frac{38}{745}, \frac{171}{745})$ $+ \frac{19}{745}\sqrt{642}e^1 \otimes e_2 + \frac{361}{745}e^3 \otimes e_4 + \frac{361}{745}e^5 \otimes e_6$	{1358, 1368, 1468, 235, 236, 246}
9321:4	$0, 0, 0, 0, 0, 0, \frac{9}{13}e^{12}, \frac{9}{104}\sqrt{13}e^{17}, \frac{9}{26}e^{18} + \frac{9}{26}\sqrt{3}e^{34} + \frac{9}{26}\sqrt{3}e^{56}$	$(-\frac{27}{104}, \frac{9}{13}, -\frac{9}{208}, -\frac{9}{208}, -\frac{9}{208}, -\frac{9}{208}, -\frac{45}{104}, \frac{9}{52}, -\frac{9}{104})$ $+ \frac{9}{8}e^2 \otimes e_9$	{1234568, 12348, 128, 13579}
9321:4	$0, 0, 0, 0, 0, 0, \frac{19}{192}\sqrt{15}e^{12}, \frac{19}{24}e^{17},$ $\frac{19}{128}\sqrt{34}e^{18} + \frac{19}{128}\sqrt{5}e^{34} + \frac{19}{128}\sqrt{5}e^{56}$	$(\frac{133}{384}, -\frac{19}{32}, \frac{57}{256}, \frac{57}{256}, \frac{57}{256}, -\frac{95}{384}, \frac{19}{192}, \frac{57}{128})$ $+ \frac{19}{384}\sqrt{642}e^1 \otimes e_2$	{1358, 235}
9321:4	$0, 0, 0, 0, 0, 0, \frac{38}{745}\sqrt{15}e^{12}, \frac{304}{745}e^{17},$ $\frac{57}{745}\sqrt{34}e^{18} + \frac{57}{745}\sqrt{5}e^{34} + \frac{57}{745}\sqrt{5}e^{56}$	$(\frac{133}{745}, -\frac{228}{745}, \frac{266}{745}, -\frac{19}{149}, \frac{266}{745}, -\frac{19}{149}, -\frac{19}{149}, \frac{38}{745}, \frac{171}{745})$ $+ \frac{19}{745}\sqrt{642}e^1 \otimes e_2 + \frac{361}{745}e^3 \otimes e_4 - \frac{361}{745}e^5 \otimes e_6$	{1358, 1368, 1458, 1468, 235, 236, 245, 246}
9321:4	$0, 0, 0, 0, 0, 0, \frac{38}{745}\sqrt{15}e^{12}, \frac{304}{745}e^{17},$ $\frac{57}{745}\sqrt{34}e^{18} + \frac{57}{745}\sqrt{5}e^{34} + \frac{57}{745}\sqrt{5}e^{56}$	$(\frac{133}{745}, -\frac{228}{745}, \frac{266}{745}, -\frac{19}{149}, \frac{266}{745}, -\frac{19}{149}, -\frac{19}{149}, \frac{38}{745}, \frac{171}{745})$ $+ \frac{19}{745}\sqrt{642}e^1 \otimes e_2 - \frac{361}{745}e^3 \otimes e_4 - \frac{361}{745}e^5 \otimes e_6$	{1358, 1368, 1468, 235, 236, 246}
9321:5	$0, 0, 0, 0, 0, 0, \frac{8}{793}\sqrt{1749}e^{12}, \frac{4}{793}\sqrt{12137}e^{17},$ $\frac{4}{793}\sqrt{9805}e^{18} + \frac{212}{793}\sqrt{2}e^{27}$	$(\frac{35}{793}, \frac{70}{793}, \frac{308}{793}, -\frac{389}{793}, -\frac{116}{793}, \frac{96}{793}, \frac{105}{793}, \frac{140}{793}, \frac{175}{793})$ $+ \frac{424}{793}e^3 \otimes e_5 + \frac{9}{793}\sqrt{25705}e^1 \otimes e_4$	{12368, 1238, 12568, 1258, 2346789, 234789, 2456789, 245789}
9321:5	$0, 0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1749}e^{12}, \frac{4}{581}\sqrt{12137}e^{17},$ $\frac{4}{581}\sqrt{9805}e^{18} + \frac{212}{581}\sqrt{2}e^{27}$	$(\frac{5}{83}, \frac{10}{83}, -\frac{389}{581}, \frac{96}{581}, \frac{96}{581}, \frac{15}{581}, \frac{20}{83}, \frac{25}{83})$ $+ \frac{4}{581}\sqrt{25705}e^1 \otimes e_3$	{124568, 12458, 1248, 128, 23456789, 2345789, 234789, 23789}
9321:5	$0, 0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109}e^{12}, \frac{1}{109}\sqrt{1073}e^{17}, \frac{1}{109}\sqrt{370}e^{18} + \frac{1}{109}\sqrt{703}e^{27}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, -\frac{27}{109}, \frac{29}{109}, -\frac{8}{109}, \frac{15}{109}, \frac{20}{109}, \frac{25}{109})$ $+ \frac{1}{109}\sqrt{3145}e^1 \otimes e_3 + \frac{37}{109}e^5 \otimes e_6 + \frac{5}{109}\sqrt{111}e^2 \otimes e_4$	{14579, 14679, 345, 346}
9321:5	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{2}{181}\sqrt{1073}e^{17}, \frac{2}{181}\sqrt{370}e^{18} + \frac{2}{181}\sqrt{703}e^{27}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, -\frac{54}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, \frac{40}{181}, \frac{50}{181})$ $+ \frac{10}{181}\sqrt{111}e^2 \otimes e_4 + \frac{2}{181}\sqrt{3145}e^1 \otimes e_3$	{145679, 14579, 1479, 34, 345, 3456}
9321:5	$0, 0, 0, 0, 0, 0, \frac{4}{787}\sqrt{13281}e^{12}, \frac{6}{787}\sqrt{1398}e^{17},$ $\frac{2}{787}\sqrt{30290}e^{18} + \frac{2}{787}\sqrt{57318}e^{27}$	$(\frac{40}{787}, \frac{80}{787}, \frac{317}{787}, -\frac{386}{787}, -\frac{149}{787}, \frac{84}{787}, \frac{120}{787}, \frac{160}{787}, \frac{200}{787})$ $+ \frac{2}{787}\sqrt{109510}e^2 \otimes e_4 + \frac{466}{787}e^3 \otimes e_5$	{1346789, 134789, 1456789, 145789, 3468, 348, 4568, 458}
9321:5	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{534}e^{12}, \frac{2}{111}\sqrt{534}e^{17}, \frac{4}{111}\sqrt{89}e^{18} + \frac{4}{111}\sqrt{89}e^{27}$	$(\frac{2}{37}, \frac{4}{37}, 1, -\frac{67}{111}, \frac{22}{111}, \frac{22}{111}, \frac{6}{37}, \frac{8}{37}, \frac{10}{37})$ $+ \frac{178}{111}e^3 \otimes e_4$	{135679, 13579, 1379, 145679, 14579, 1479, 3, 35, 356, 4, 45, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:5	$0, 0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{1}{1181}\sqrt{64470}e^{17},$ $\frac{5}{1181}\sqrt{3070}e^{18} + \frac{2}{1181}\sqrt{28551}e^{27}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, -\frac{263}{1181}, \frac{417}{1181}, \frac{108}{1181}, \frac{66}{1181}, \frac{88}{1181}, \frac{110}{1181})$ $+ \frac{1}{1181}\sqrt{189726}e^5 \otimes e_9 + \frac{1}{1181}\sqrt{227794}e^2 \otimes e_4 + \frac{1}{1181}\sqrt{241302}e^1 \otimes e_3$	{14679, 1479, 345, 3456}
9321:5	$0, 0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3}e^{12}, \frac{16}{113}\sqrt{3}e^{17}, \frac{16}{113}\sqrt{29}e^{18} + \frac{16}{113}\sqrt{29}e^{27}$	$(-\frac{3}{113}, -\frac{6}{113}, 1, \frac{20}{113}, \frac{20}{113}, \frac{20}{113}, -\frac{9}{113}, -\frac{12}{113}, -\frac{15}{113})$ $+ \frac{16}{113}\sqrt{93}e^3 \otimes e_9$	{12345678, 1234578, 123478, 12378, 245689, 24589, 2489, 289}
9321:5	$0, 0, 0, 0, 0, 0, \frac{2}{277}\sqrt{13281}e^{12}, \frac{3}{277}\sqrt{1398}e^{17},$ $\frac{1}{277}\sqrt{30290}e^{18} + \frac{1}{277}\sqrt{57318}e^{27}$	$(\frac{20}{277}, \frac{40}{277}, -\frac{193}{277}, \frac{42}{277}, \frac{42}{277}, \frac{42}{277}, \frac{60}{277}, \frac{80}{277}, \frac{100}{277})$ $+ \frac{1}{277}\sqrt{109510}e^2 \otimes e_3$	{13456789, 1345789, 134789, 13789, 34568, 3458, 348, 38}
9321:5	$0, 0, 0, 0, 0, 0, \frac{9}{457}\sqrt{326}e^{12}, \frac{1}{457}\sqrt{11247}e^{17},$ $\frac{1}{457}\sqrt{4238}e^{18} + \frac{1}{457}\sqrt{45966}e^{27}$	$(\frac{4}{457}, \frac{8}{457}, \frac{119}{457}, -\frac{155}{457}, \frac{183}{457}, -\frac{44}{457}, \frac{12}{457}, \frac{16}{457}, \frac{20}{457})$ $+ \frac{163}{457}e^3 \otimes e_6 + \frac{1}{457}\sqrt{47433}e^5 \otimes e_9 + \frac{1}{457}\sqrt{62755}e^2 \otimes e_4$	{134789, 146789, 3458, 4568}
9321:5	$0, 0, 0, 0, 0, 0, \frac{12}{3449}\sqrt{5494}e^{12}, \frac{18}{3449}\sqrt{4690}e^{17},$ $\frac{12}{3449}\sqrt{14338}e^{18} + \frac{30}{3449}\sqrt{134}e^{27}$	$(\frac{26}{3449}, \frac{52}{3449}, \frac{933}{3449}, -\frac{1180}{3449}, \frac{1336}{3449}, -\frac{273}{3449}, \frac{78}{3449}, \frac{104}{3449}, \frac{130}{3449})$ $+ \frac{1206}{3449}e^3 \otimes e_6 + \frac{6}{3449}\sqrt{101170}e^1 \otimes e_4 + \frac{6}{3449}\sqrt{67402}e^5 \otimes e_9$	{12358, 12568, 234789, 246789}
9321:5	$0, 0, 0, 0, 0, 0, \frac{18}{751}\sqrt{326}e^{12}, \frac{2}{751}\sqrt{11247}e^{17},$ $\frac{2}{751}\sqrt{4238}e^{18} + \frac{2}{751}\sqrt{45966}e^{27}$	$(\frac{8}{751}, \frac{16}{751}, \frac{366}{751}, -\frac{310}{751}, \frac{75}{751}, \frac{75}{751}, \frac{24}{751}, \frac{32}{751}, \frac{40}{751})$ $+ \frac{2}{751}\sqrt{47433}e^3 \otimes e_9 + \frac{2}{751}\sqrt{62755}e^2 \otimes e_4$	{1456789, 145789, 14789, 34568, 3458, 348}
9321:5	$0, 0, 0, 0, 0, 0, \frac{16}{177}\sqrt{3}e^{12}, \frac{16}{177}\sqrt{3}e^{17}, \frac{16}{177}\sqrt{29}e^{18} + \frac{16}{177}\sqrt{29}e^{27}$	$(-\frac{1}{59}, -\frac{2}{59}, \frac{28}{59}, \frac{113}{177}, -\frac{44}{177}, \frac{20}{177}, -\frac{3}{59}, -\frac{4}{59}, -\frac{5}{59})$ $+ \frac{128}{177}e^3 \otimes e_5 + \frac{16}{177}\sqrt{93}e^4 \otimes e_9$	{1234678, 123478, 1245678, 124578, 23689, 2389, 25689, 2589}
9321:5	$0, 0, 0, 0, 0, 0, \frac{1}{100}\sqrt{534}e^{12}, \frac{1}{100}\sqrt{534}e^{17}, \frac{1}{50}\sqrt{89}e^{18} + \frac{1}{50}\sqrt{89}e^{27}$	$(\frac{3}{100}, \frac{3}{50}, \frac{111}{200}, \frac{111}{200}, -\frac{67}{200}, -\frac{67}{200}, \frac{9}{200}, \frac{3}{25}, \frac{3}{20})$ $+ \frac{89}{100}e^3 \otimes e_5 + \frac{89}{100}e^4 \otimes e_6$	{13479, 13679, 15679, 34, 36, 56}
9321:5	$0, 0, 0, 0, 0, 0, \frac{6}{1423}\sqrt{5494}e^{12}, \frac{9}{1423}\sqrt{4690}e^{17},$ $\frac{6}{1423}\sqrt{14338}e^{18} + \frac{15}{1423}\sqrt{134}e^{27}$	$(\frac{13}{1423}, \frac{26}{1423}, \frac{668}{1423}, \frac{590}{1423}, \frac{165}{1423}, \frac{165}{1423}, \frac{39}{1423}, \frac{52}{1423}, \frac{65}{1423})$ $+ \frac{3}{1423}\sqrt{101170}e^1 \otimes e_4 + \frac{3}{1423}\sqrt{67402}e^3 \otimes e_9$	{123568, 12358, 1238, 2456789, 245789, 24789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{2}{1497}\sqrt{242607}e^{12}, \frac{1}{1497}\sqrt{1136722}e^{17},$ $\frac{2}{1497}\sqrt{239190}e^{18} + \frac{67}{1497}\sqrt{102}e^{23} + \frac{2}{1497}\sqrt{6834}e^{45}$	$(\frac{152}{1497}, \frac{10}{499}, \frac{152}{499}, \frac{81}{499}, \frac{81}{499}, -\frac{329}{499}, \frac{182}{1497}, \frac{334}{1497}, \frac{162}{499})$ $+ \frac{2}{499}\sqrt{78591}e^1 \otimes e_6$	{12458, 128, 1479, 2346789, 3456, 36}
9321:6	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{570}e^{12}, \frac{4}{119}\sqrt{190}e^{17},$ $\frac{2}{119}\sqrt{285}e^{18} + \frac{2}{119}\sqrt{285}e^{23} + \frac{2}{119}\sqrt{570}e^{45}$	$(\frac{1}{17}, \frac{15}{119}, \frac{3}{17}, \frac{113}{119}, -\frac{11}{119}, \frac{24}{119}, \frac{22}{119}, \frac{29}{119}, \frac{36}{119})$ $+ \frac{190}{119}e^4 \otimes e_5$	{134679, 13479, 135679, 13579, 246789, 24789, 256789, 25789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{1}{360}\sqrt{124822}e^{12}, \frac{1}{180}\sqrt{4939}e^{17},$ $\frac{1}{360}\sqrt{25593}e^{18} + \frac{1}{360}\sqrt{25593}e^{23} + \frac{1}{360}\sqrt{36818}e^{45}$	$(-\frac{133}{720}, \frac{499}{720}, -\frac{133}{240}, \frac{5}{72}, \frac{5}{72}, \frac{11}{60}, \frac{61}{120}, \frac{233}{720}, \frac{5}{36})$ $+ \frac{7}{180}\sqrt{1347}e^2 \otimes e_3$	{134567, 13457, 1367, 137, 245678, 24578, 2678, 278}
9321:6	$0, 0, 0, 0, 0, 0, \frac{2}{467}\sqrt{8302}e^{12}, \frac{3}{467}\sqrt{3558}e^{17},$ $\frac{2}{467}\sqrt{4151}e^{18} + \frac{1}{467}\sqrt{212294}e^{23} + \frac{2}{467}\sqrt{8302}e^{45}$	$(\frac{96}{467}, -\frac{70}{467}, \frac{288}{467}, \frac{109}{467}, \frac{109}{467}, -\frac{305}{467}, \frac{26}{467}, \frac{122}{467}, \frac{218}{467})$ $+ \frac{2}{467}\sqrt{114449}e^3 \otimes e_6$	{12347, 134589, 1389, 24569, 269, 4678}
9321:6	$0, 0, 0, 0, 0, 0, \frac{1}{220}\sqrt{15510}e^{12}, \frac{1}{55}\sqrt{141}e^{17},$ $\frac{1}{220}\sqrt{6063}e^{18} + \frac{1}{220}\sqrt{6063}e^{23} + \frac{1}{220}\sqrt{15510}e^{45}$	$(-\frac{7}{88}, \frac{177}{440}, -\frac{21}{88}, \frac{67}{220}, -\frac{31}{220}, -\frac{37}{110}, \frac{71}{220}, \frac{107}{440}, \frac{9}{55})$ $+ \frac{7}{110}\sqrt{141}e^2 \otimes e_3 + \frac{7}{110}\sqrt{141}e^4 \otimes e_6$	{13457, 1367, 24578, 2678}
9321:6	$0, 0, 0, 0, 0, 0, \frac{4}{1109}\sqrt{6307}e^{12}, \frac{4}{1109}\sqrt{4081}e^{17},$ $\frac{28}{1109}\sqrt{318}e^{18} + \frac{28}{1109}\sqrt{318}e^{23} + \frac{2}{1109}\sqrt{49714}e^{45}$	$(-\frac{12}{1109}, \frac{32}{1109}, -\frac{36}{1109}, \frac{369}{1109}, \frac{373}{1109}, \frac{738}{1109}, \frac{20}{1109}, \frac{8}{1109}, -\frac{4}{1109})$ $+ \frac{2}{1109}\sqrt{224826}e^6 \otimes e_9 + \frac{742}{1109}e^4 \otimes e_5$	{12479, 12579, 34789, 35789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{1}{360}\sqrt{36818}e^{12}, \frac{1}{180}\sqrt{4939}e^{17},$ $\frac{1}{360}\sqrt{25593}e^{18} + \frac{1}{360}\sqrt{25593}e^{23} + \frac{1}{360}\sqrt{124822}e^{45}$	$(\frac{7}{80}, \frac{107}{720}, \frac{21}{80}, \frac{221}{360}, -\frac{73}{360}, -\frac{19}{30}, \frac{17}{72}, \frac{233}{720}, \frac{37}{90})$ $+ \frac{7}{180}\sqrt{1347}e^4 \otimes e_6$	{123489, 1235689, 13457, 1367, 24578, 2678, 49, 569}
9321:6	$0, 0, 0, 0, 0, 0, \frac{116}{4361}\sqrt{362}e^{12}, \frac{116}{4361}\sqrt{233}e^{17},$ $\frac{58}{4361}\sqrt{590}e^{18} + \frac{58}{4361}\sqrt{573}e^{23} + \frac{58}{4361}\sqrt{151}e^{45}$	$(-\frac{174}{4361}, \frac{1160}{4361}, -\frac{522}{4361}, \frac{319}{4361}, \frac{319}{4361}, -\frac{1856}{4361}, \frac{986}{4361}, \frac{116}{623}, \frac{638}{4361})$ $+ \frac{58}{4361}\sqrt{1565}e^2 \otimes e_3 + \frac{58}{4361}\sqrt{2326}e^1 \otimes e_6$	{12458, 128, 3456, 36}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:6	$0, 0, 0, 0, 0, 0, \frac{136}{881}\sqrt{6}e^{12}, \frac{34}{881}\sqrt{37}e^{17}, \frac{136}{881}\sqrt{5}e^{18} + \frac{136}{881}\sqrt{5}e^{23} + \frac{272}{881}\sqrt{2}e^{45}$	$(-\frac{102}{881}, \frac{272}{881}, -\frac{306}{881}, -\frac{17}{881}, -\frac{17}{881}, \frac{544}{881}, \frac{170}{881}, \frac{68}{881}, -\frac{34}{881}) + \frac{34}{881}\sqrt{337}e^2 \otimes e_3 + \frac{34}{881}\sqrt{433}e^6 \otimes e_9$	{13479, 24789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{4}{1527}\sqrt{8302}e^{12}, \frac{2}{509}\sqrt{3558}e^{17}, \frac{4}{1527}\sqrt{4151}e^{18} + \frac{2}{1527}\sqrt{212294}e^{23} + \frac{4}{1527}\sqrt{8302}e^{45}$	$(\frac{64}{509}, -\frac{140}{1527}, \frac{192}{509}, \frac{811}{1527}, -\frac{125}{509}, -\frac{610}{1527}, \frac{52}{1527}, \frac{244}{1527}, \frac{436}{1527}) + \frac{1186}{1527}e^4 \otimes e_5 + \frac{4}{1527}\sqrt{114449}e^3 \otimes e_6$	{12347, 12357, 4678, 5678}
9321:6	$0, 0, 0, 0, 0, 0, \frac{4}{4469}\sqrt{323626}e^{12}, \frac{2}{4469}\sqrt{267070}e^{17}, \frac{16}{4469}\sqrt{9426}e^{18} + \frac{18}{4469}\sqrt{15710}e^{23} + \frac{4}{4469}\sqrt{10997}e^{45}$	$(-\frac{100}{4469}, \frac{1264}{4469}, -\frac{300}{4469}, \frac{2053}{4469}, -\frac{1089}{4469}, -\frac{1878}{4469}, \frac{1164}{4469}, \frac{1064}{4469}, \frac{964}{4469}) + \frac{3142}{4469}e^4 \otimes e_5 + \frac{4}{4469}\sqrt{937887}e^2 \otimes e_6$	{12489, 12589, 3469, 3569}
9321:6	$0, 0, 0, 0, 0, 0, \frac{4}{4133}\sqrt{242607}e^{12}, \frac{2}{4133}\sqrt{1136722}e^{17}, \frac{4}{4133}\sqrt{239190}e^{18} + \frac{134}{4133}\sqrt{102}e^{23} + \frac{4}{4133}\sqrt{6834}e^{45}$	$(\frac{304}{4133}, \frac{60}{4133}, \frac{912}{4133}, \frac{1625}{4133}, -\frac{653}{4133}, -\frac{1974}{4133}, \frac{364}{4133}, \frac{668}{4133}, \frac{972}{4133}) + \frac{12}{4133}\sqrt{78591}e^1 \otimes e_6 + \frac{4}{4133}e^4 \otimes e_5$	{1479, 1579, 2346789, 2356789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{68}{585}\sqrt{6}e^{12}, \frac{17}{585}\sqrt{37}e^{17}, \frac{68}{585}\sqrt{5}e^{18} + \frac{68}{585}\sqrt{5}e^{23} + \frac{136}{585}\sqrt{2}e^{45}$	$(-\frac{17}{195}, \frac{136}{585}, -\frac{17}{65}, \frac{136}{585}, -\frac{17}{65}, \frac{272}{585}, \frac{17}{117}, \frac{34}{585}, -\frac{17}{585}) + \frac{17}{585}\sqrt{337}e^2 \otimes e_3 + \frac{17}{585}\sqrt{433}e^6 \otimes e_9 - \frac{289}{585}e^4 \otimes e_5$	{13479, 13579, 24789, 25789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{68}{585}\sqrt{6}e^{12}, \frac{17}{585}\sqrt{37}e^{17}, \frac{68}{585}\sqrt{5}e^{18} + \frac{68}{585}\sqrt{5}e^{23} + \frac{136}{585}\sqrt{2}e^{45}$	$(-\frac{17}{195}, \frac{136}{585}, -\frac{17}{65}, \frac{136}{585}, -\frac{17}{65}, \frac{272}{585}, \frac{17}{117}, \frac{34}{585}, -\frac{17}{585}) + \frac{17}{585}\sqrt{337}e^2 \otimes e_3 + \frac{17}{585}\sqrt{433}e^6 \otimes e_9 + \frac{289}{585}e^4 \otimes e_5$	{13479, 13579, 24789, 25789}
9321:6	$0, 0, 0, 0, 0, 0, \frac{2}{1449}\sqrt{323626}e^{12}, \frac{1}{1449}\sqrt{267070}e^{17}, \frac{8}{1449}\sqrt{9426}e^{18} + \frac{1}{161}\sqrt{15710}e^{23} + \frac{2}{1449}\sqrt{10997}e^{45}$	$(-\frac{50}{1449}, \frac{632}{1449}, -\frac{50}{483}, \frac{241}{1449}, \frac{241}{1449}, -\frac{313}{483}, \frac{194}{483}, \frac{76}{207}, \frac{482}{1449}) + \frac{2}{1449}\sqrt{937887}e^2 \otimes e_6$	{12489, 14567, 167, 234578, 2378, 3469}
9321:6	$0, 0, 0, 0, 0, 0, \frac{2}{369}\sqrt{6307}e^{12}, \frac{2}{369}\sqrt{4081}e^{17}, \frac{14}{369}\sqrt{318}e^{18} + \frac{14}{369}\sqrt{318}e^{23} + \frac{2}{369}\sqrt{49714}e^{45}$	$(-\frac{2}{123}, \frac{16}{369}, -\frac{2}{41}, -\frac{1}{369}, -\frac{1}{369}, 1, \frac{10}{369}, \frac{4}{369}, -\frac{2}{369}) + \frac{1}{369}\sqrt{224826}e^0 \otimes e_9$	{12479, 14568, 168, 23456, 236, 34789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{5}{1633}\sqrt{17754}e^{12}, \frac{2}{1633}\sqrt{184803}e^{17}, \frac{2}{1633}\sqrt{117015}e^{18} + \frac{1}{1633}\sqrt{418026}e^{27} + \frac{1}{1633}\sqrt{369606}e^{34}$	$(\frac{4}{71}, \frac{8}{71}, \frac{489}{1633}, -\frac{29}{1633}, -\frac{715}{1633}, -\frac{318}{1633}, \frac{12}{71}, \frac{16}{71}, \frac{20}{71}) + \frac{2}{1633}\sqrt{209013}e^3 \otimes e_6 + \frac{3}{1633}\sqrt{164090}e^1 \otimes e_5$	{12348, 1268, 235789, 2456789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{4}{3757}\sqrt{301081}e^{12}, \frac{2}{3757}\sqrt{295526}e^{17}, \frac{202}{3757}\sqrt{66}e^{18} + \frac{2}{3757}\sqrt{1326534}e^{27} + \frac{16}{3757}\sqrt{1111}e^{34}$	$(\frac{184}{3757}, \frac{368}{3757}, \frac{1571}{3757}, -\frac{651}{3757}, -\frac{1854}{3757}, \frac{396}{3757}, \frac{552}{3757}, \frac{736}{3757}, \frac{920}{3757}) + \frac{2222}{3757}e^3 \otimes e_4 + \frac{30}{3757}\sqrt{11110}e^2 \otimes e_5$	{3568, 358, 4568, 458}
9321:7	$0, 0, 0, 0, 0, 0, \frac{25}{122}\sqrt{6}e^{12}, \frac{25}{122}\sqrt{6}e^{17}, \frac{5}{122}\sqrt{55}e^{18} + \frac{244}{122}\sqrt{55}e^{27} + \frac{10}{61}\sqrt{15}e^{34}$	$(\frac{15}{244}, \frac{15}{122}, \frac{75}{488}, \frac{75}{488}, -\frac{175}{488}, -\frac{175}{488}, \frac{45}{244}, \frac{15}{61}, \frac{75}{244}) + \frac{5}{244}\sqrt{1105}e^3 \otimes e_5 + \frac{5}{244}\sqrt{1105}e^4 \otimes e_6$	{1347, 1567, 369}
9321:7	$0, 0, 0, 0, 0, 0, \frac{52}{3983}\sqrt{391}e^{12}, \frac{52}{3983}\sqrt{730}e^{17}, \frac{52}{3983}\sqrt{917}e^{18} + \frac{520}{3983}e^{27} + \frac{52}{3983}\sqrt{265}e^{34}$	$(\frac{52}{3983}, \frac{104}{3983}, \frac{806}{3983}, -\frac{78}{569}, \frac{1612}{3983}, -\frac{1300}{3983}, \frac{156}{3983}, \frac{208}{3983}, \frac{260}{3983}) + \frac{1352}{3983}e^3 \otimes e_4 + \frac{52}{3983}\sqrt{1217}e^5 \otimes e_9 + \frac{52}{3983}\sqrt{1695}e^1 \otimes e_6$	{236789, 246789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{15594}e^{12}, \frac{1}{271}\sqrt{15594}e^{17}, \frac{1}{271}\sqrt{12882}e^{18} + \frac{1}{271}\sqrt{12882}e^{27} + \frac{1}{271}\sqrt{69834}e^{34}$	$(\frac{23}{271}, \frac{46}{271}, \frac{168}{271}, -\frac{53}{271}, -\frac{171}{271}, \frac{50}{271}, \frac{69}{271}, \frac{92}{271}, \frac{115}{271}) + \frac{1}{271}\sqrt{149838}e^3 \otimes e_5$	{13467, 1347, 1567, 157, 369, 39, 4569, 459}
9321:7	$0, 0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{650122}e^{12}, \frac{4}{1397}\sqrt{70311}e^{17}, \frac{4}{1397}\sqrt{56045}e^{18} + \frac{1}{1397}\sqrt{527842}e^{27} + \frac{1}{1397}\sqrt{34646}e^{34}$	$(\frac{86}{1397}, \frac{172}{1397}, \frac{215}{1397}, \frac{215}{1397}, -\frac{933}{1397}, \frac{232}{1397}, \frac{258}{1397}, \frac{344}{1397}, \frac{430}{1397}) + \frac{1}{1397}\sqrt{2374270}e^1 \otimes e_5$	{123468, 12348, 1268, 128, 2356789, 235789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{1}{419}\sqrt{2230}e^{12}, \frac{1}{419}\sqrt{2230}e^{17}, \frac{1}{419}\sqrt{13826}e^{18} + \frac{1}{419}\sqrt{13826}e^{27} + \frac{1}{419}\sqrt{53074}e^{34}$	$(\frac{5}{419}, \frac{10}{419}, \frac{98}{419}, -\frac{73}{419}, \frac{248}{419}, -\frac{125}{419}, \frac{15}{419}, \frac{20}{419}, \frac{25}{419}) + \frac{2}{419}\sqrt{22523}e^5 \otimes e_9 + \frac{3}{419}\sqrt{8474}e^3 \otimes e_6$	{1379, 14679, 345, 56}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{214}e^{12}, \frac{2}{67}\sqrt{214}e^{17}, \frac{1}{67}\sqrt{321}e^{18} + \frac{1}{67}\sqrt{321}e^{27} + \frac{1}{67}\sqrt{749}e^{34}$	$(\frac{4}{67}, \frac{8}{67}, \frac{10}{67}, \frac{10}{67}, 1, -\frac{40}{67}, \frac{12}{67}, \frac{16}{67}, \frac{20}{67}) + \frac{107}{67}e^5 \otimes e_6$	{13579, 13679, 345, 346, 5, 6}
9321:7	$0, 0, 0, 0, 0, 0, \frac{4}{841}\sqrt{287}e^{12}, \frac{4}{841}\sqrt{287}e^{17}, \frac{56}{841}\sqrt{41}e^{18} + \frac{56}{841}\sqrt{41}e^{27} + \frac{4}{841}\sqrt{31570}e^{34}$	$(-\frac{4}{841}, -\frac{8}{841}, \frac{277}{841}, -\frac{297}{841}, \frac{554}{841}, \frac{100}{841}, -\frac{12}{841}, -\frac{16}{841}, -\frac{20}{841}) + \frac{2}{841}\sqrt{130298}e^5 \otimes e_9 + \frac{574}{841}e^3 \otimes e_4$	{23689, 2389, 24689, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
9321:7	$0, 0, 0, 0, 0, 0, \frac{46}{2593}\sqrt{813e^{12}}, \frac{46}{2593}\sqrt{409e^{17}}, \frac{46}{2593}\sqrt{154e^{18}} + \frac{46}{2593}\sqrt{287e^{27}} + \frac{184}{2593}\sqrt{3e^{34}}$	$(\frac{138}{2593}, \frac{276}{2593}, \frac{345}{2593}, \frac{345}{2593}, -\frac{920}{2593}, -\frac{782}{2593}, \frac{414}{2593}, \frac{552}{2593}, \frac{690}{2593}) + \frac{46}{2593}\sqrt{1079e^2} \otimes e_6 + \frac{46}{2593}\sqrt{1217e^1} \otimes e_5$	{134679, 1679, 356}
9321:7	$0, 0, 0, 0, 0, 0, \frac{4}{241}\sqrt{214e^{12}}, \frac{4}{241}\sqrt{214e^{17}}, \frac{2}{241}\sqrt{321e^{18}} + \frac{4}{241}\sqrt{321e^{27}} + \frac{2}{241}\sqrt{749e^{34}}$	$(\frac{8}{241}, \frac{16}{241}, \frac{127}{241}, -\frac{87}{241}, \frac{134}{241}, -\frac{80}{241}, \frac{24}{241}, \frac{32}{241}, \frac{40}{241}) + \frac{214}{241}e^3 \otimes e_4 + \frac{214}{241}e^5 \otimes e_6$	{13579, 13679, 14579, 14679}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{214e^{12}}, \frac{2}{67}\sqrt{214e^{17}}, \frac{1}{67}\sqrt{321e^{18}} + \frac{2}{67}\sqrt{321e^{27}} + \frac{1}{67}\sqrt{749e^{34}}$	$(\frac{4}{67}, \frac{8}{67}, \frac{127}{134}, -\frac{87}{134}, \frac{27}{134}, \frac{27}{134}, \frac{12}{67}, \frac{16}{67}, \frac{20}{67}) + \frac{107}{67}e^3 \otimes e_4$	{135679, 13579, 1379, 145679, 14579, 1479}
9321:7	$0, 0, 0, 0, 0, 0, \frac{52}{3307}\sqrt{391e^{12}}, \frac{52}{3307}\sqrt{730e^{17}}, \frac{52}{3307}\sqrt{917e^{18}} + \frac{520}{3307}e^{27} + \frac{52}{3307}\sqrt{265e^{34}}$	$(\frac{52}{3307}, \frac{104}{3307}, \frac{130}{3307}, \frac{130}{3307}, \frac{1612}{3307}, -\frac{1300}{3307}, \frac{156}{3307}, \frac{208}{3307}, \frac{260}{3307}) + \frac{52}{3307}\sqrt{1217e^5} \otimes e_9 + \frac{52}{3307}\sqrt{1695e^1} \otimes e_6$	{123458, 1258, 236789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{277}\sqrt{287e^{12}}, \frac{2}{277}\sqrt{287e^{17}}, \frac{28}{277}\sqrt{41e^{18}} + \frac{28}{277}\sqrt{41e^{27}} + \frac{2}{277}\sqrt{31570e^{34}}$	$(-\frac{2}{277}, -\frac{4}{277}, -\frac{5}{277}, -\frac{5}{277}, 1, \frac{50}{277}, -\frac{6}{277}, -\frac{8}{277}, -\frac{10}{277}) + \frac{1}{277}\sqrt{130298e^5} \otimes e_9$	{12345678, 1234578, 125678, 12578, 23689, 2389}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{3139}\sqrt{771762e^{12}}, \frac{20}{3139}\sqrt{1317e^{17}}, \frac{2}{3139}\sqrt{506606e^{18}} + \frac{2}{3139}\sqrt{698010e^{27}} + \frac{4}{3139}\sqrt{88239e^{34}}$	$(\frac{193}{3139}, \frac{386}{3139}, \frac{14}{43}, -\frac{57}{3139}, -\frac{1370}{3139}, -\frac{734}{3139}, \frac{579}{3139}, \frac{772}{3139}, \frac{965}{3139}) + \frac{14}{3139}\sqrt{30730e^2} \otimes e_5 + \frac{2}{3139}\sqrt{947362e^3} \otimes e_6$	{135789, 1456789, 3458, 568}
9321:7	$0, 0, 0, 0, 0, 0, \frac{216}{3433}\sqrt{46e^{12}}, \frac{54}{3433}\sqrt{287e^{17}}, \frac{108}{3433}\sqrt{37e^{18}} + \frac{432}{3433}\sqrt{19e^{27}} + \frac{108}{3433}\sqrt{55e^{34}}$	$(\frac{54}{3433}, \frac{108}{3433}, \frac{135}{3433}, \frac{135}{3433}, \frac{1728}{3433}, -\frac{1350}{3433}, \frac{162}{3433}, \frac{216}{3433}, \frac{270}{3433}) + \frac{54}{3433}\sqrt{1373e^5} \otimes e_9 + \frac{54}{3433}\sqrt{1705e^2} \otimes e_6$	{136789, 34568, 568}
9321:7	$0, 0, 0, 0, 0, 0, \frac{108}{2081}\sqrt{46e^{12}}, \frac{27}{2081}\sqrt{287e^{17}}, \frac{54}{2081}\sqrt{37e^{18}} + \frac{216}{2081}\sqrt{19e^{27}} + \frac{54}{2081}\sqrt{55e^{34}}$	$(\frac{27}{2081}, \frac{54}{2081}, \frac{432}{2081}, -\frac{297}{2081}, \frac{864}{2081}, -\frac{675}{2081}, \frac{81}{2081}, \frac{108}{2081}, \frac{135}{2081}) + \frac{27}{2081}\sqrt{1373e^5} \otimes e_9 + \frac{27}{2081}\sqrt{1705e^2} \otimes e_6 + \frac{729}{2081}e^3 \otimes e_4$	{136789, 146789}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{1323}\sqrt{301081e^{12}}, \frac{1}{1323}\sqrt{295526e^{17}}, \frac{101}{1323}\sqrt{66e^{18}} + \frac{4}{1323}\sqrt{1326534e^{27}} + \frac{8}{1323}\sqrt{1111e^{34}}$	$(\frac{92}{1323}, \frac{184}{1323}, \frac{230}{1323}, \frac{230}{1323}, -\frac{103}{1323}, \frac{22}{1323}, \frac{92}{1323}, \frac{368}{1323}, \frac{460}{1323}) + \frac{5}{441}\sqrt{11110e^2} \otimes e_5$	{13456789, 1345789, 156789, 15789, 3568, 358}
9321:7	$0, 0, 0, 0, 0, 0, \frac{2}{3813}\sqrt{650122e^{12}}, \frac{8}{3813}\sqrt{70311e^{17}}, \frac{8}{3813}\sqrt{56045e^{18}} + \frac{2}{3813}\sqrt{527842e^{27}} + \frac{2}{3813}\sqrt{34646e^{34}}$	$(\frac{172}{3813}, \frac{344}{3813}, \frac{483}{1271}, -\frac{19}{123}, -\frac{622}{1271}, \frac{464}{3813}, \frac{172}{1271}, \frac{688}{3813}, \frac{860}{3813}) + \frac{2038}{3813}e^3 \otimes e_4 + \frac{2}{3813}\sqrt{2374270e^1} \otimes e_5$	{2356789, 235789, 2456789, 245789}
9321:8	$0, 0, 0, 0, 0, 0, \frac{25}{141}\sqrt{2e^{12}}, \frac{25}{141}\sqrt{2e^{17}}, \frac{5}{141}\sqrt{10e^{18}} + \frac{5}{141}\sqrt{10e^{27}} + \frac{5}{141}\sqrt{35e^{34}} + \frac{5}{141}\sqrt{35e^{56}}$	$(\frac{5}{141}, \frac{10}{141}, \frac{25}{47}, -\frac{50}{141}, \frac{25}{47}, -\frac{50}{141}, \frac{5}{141}, \frac{20}{141}, \frac{25}{141}) + \frac{125}{141}e^3 \otimes e_4 - \frac{125}{141}e^5 \otimes e_6$	{13579, 13679, 14679}
9321:8	$0, 0, 0, 0, 0, 0, \frac{25}{141}\sqrt{2e^{12}}, \frac{25}{141}\sqrt{2e^{17}}, \frac{5}{141}\sqrt{10e^{18}} + \frac{5}{141}\sqrt{10e^{27}} + \frac{5}{141}\sqrt{35e^{34}} + \frac{5}{141}\sqrt{35e^{56}}$	$(\frac{5}{141}, \frac{10}{141}, \frac{25}{47}, -\frac{50}{141}, \frac{25}{47}, -\frac{50}{141}, \frac{5}{141}, \frac{20}{141}, \frac{25}{141}) + \frac{125}{141}e^3 \otimes e_4 + \frac{125}{141}e^5 \otimes e_6$	{13579, 13679, 14679}
9321:8	$0, 0, 0, 0, 0, 0, \frac{50}{157}\sqrt{2e^{12}}, \frac{50}{157}\sqrt{2e^{17}}, \frac{10}{157}\sqrt{10e^{18}} + \frac{10}{157}\sqrt{10e^{27}} + \frac{10}{157}\sqrt{35e^{34}} + \frac{10}{157}\sqrt{35e^{56}}$	$(\frac{10}{157}, \frac{20}{157}, \frac{150}{157}, -\frac{100}{157}, \frac{25}{157}, \frac{25}{157}, \frac{30}{157}, \frac{40}{157}, \frac{50}{157}) + \frac{250}{157}e^3 \otimes e_4$	{13579, 14579}
932:1	$0, 0, 0, 0, 0, 0, \frac{3}{157}\sqrt{85e^{12}}, \frac{4}{157}\sqrt{170e^{17}}, \frac{4}{157}\sqrt{170e^{27}}$	$(-\frac{7}{157}, -\frac{7}{157}, \frac{56}{157}, \frac{64}{157}, \frac{64}{157}, -\frac{29}{157}, -\frac{14}{157}, -\frac{21}{157}, -\frac{21}{157}) + \frac{1}{157}\sqrt{8585e^4} \otimes e_8 + \frac{1}{157}\sqrt{8585e^5} \otimes e_9 + \frac{85}{157}e^3 \otimes e_6$	{12389, 12689, 13479, 14679, 345, 456}
932:1	$0, 0, 0, 0, 0, 0, \frac{14}{237}\sqrt{79e^{12}}, \frac{14}{237}\sqrt{33e^{17}}, \frac{14}{237}\sqrt{33e^{27}}$	$(\frac{20}{237}, \frac{20}{237}, -\frac{26}{79}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, \frac{40}{237}, \frac{20}{237}, \frac{20}{79}) + \frac{14}{237}\sqrt{105e^1} \otimes e_3 + \frac{14}{237}\sqrt{105e^2} \otimes e_4$	{125689, 12589, 1289, 145679, 14579, 1479, 34, 345, 3456}
932:1	$0, 0, 0, 0, 0, 0, \frac{2}{1571}\sqrt{75207e^{12}}, \frac{5}{1571}\sqrt{19822e^{17}}, \frac{1}{1571}\sqrt{3498e^{27}}$	$(\frac{91}{1571}, -\frac{120}{1571}, \frac{645}{1571}, -\frac{492}{1571}, \frac{434}{1571}, \frac{141}{1571}, -\frac{29}{1571}, \frac{62}{1571}, -\frac{149}{1571}) + \frac{12}{1571}\sqrt{4081e^3} \otimes e_8 + \frac{1}{1571}\sqrt{341638e^5} \otimes e_9 + \frac{1}{1571}\sqrt{738078e^1} \otimes e_4$	{12689, 1289, 13679, 1379, 245678, 24578, 345, 3456}
932:1	$0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{6501e^{12}}, \frac{1}{313}\sqrt{21670e^{17}}, \frac{1}{313}\sqrt{13002e^{27}}$	$(\frac{77}{313}, -\frac{60}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{39}{313}, \frac{17}{313}, \frac{94}{313}, -\frac{43}{313}) + \frac{1}{313}\sqrt{45310e^3} \otimes e_9 + \frac{1}{313}\sqrt{62646e^1} \otimes e_4$	{125689, 12589, 1289, 15679, 1579, 179, 2345678, 234578, 23478, 34, 345, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:1	$0, 0, 0, 0, 0, 0, \frac{6}{229}\sqrt{85}e^{12}, \frac{8}{229}\sqrt{170}e^{17}, \frac{8}{229}\sqrt{170}e^{27}$	$(-\frac{14}{229}, -\frac{14}{229}, \frac{128}{229}, \frac{128}{229}, \frac{27}{229}, \frac{27}{229}, -\frac{28}{229}, -\frac{42}{229}, -\frac{42}{229})$ $+\frac{2}{229}\sqrt{8585}e^3 \otimes e_8 + \frac{2}{229}\sqrt{8585}e^4 \otimes e_9$	{125689, 12589, 1289, 135679, 13579, 1379, 34, 345, 3456}
932:1	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{9510}e^{12}, \frac{1}{247}\sqrt{55158}e^{17}, \frac{2}{247}\sqrt{2219}e^{27}$	$(-\frac{3}{13}, \frac{44}{247}, 1, \frac{45}{247}, \frac{45}{247}, \frac{45}{247}, -\frac{1}{19}, -\frac{70}{247}, \frac{31}{247})$ $+\frac{2}{247}\sqrt{32017}e^3 \otimes e_8$	{124568, 12458, 1248, 128, 134567, 13457, 1347, 137, 2456789, 245789, 24789, 2789, 34569, 3459, 349, 39}
932:1	$0, 0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{14}{61}\sqrt{3}e^{17}, \frac{14}{61}\sqrt{3}e^{27}$	$(\frac{5}{61}, \frac{5}{61}, 1, -\frac{37}{61}, \frac{12}{61}, \frac{12}{61}, \frac{10}{61}, \frac{15}{61}, \frac{15}{61})$ $+\frac{98}{61}e^3 \otimes e_4$	{1235689, 123589, 12389, 1245689, 124589, 12489, 135679, 13579, 1379, 145679, 14579, 1479, 3, 35, 356, 4, 45, 456}
932:1	$0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{34}e^{12}, \frac{84}{151}e^{17}, \frac{14}{151}\sqrt{6}e^{27}$	$(\frac{32}{151}, -\frac{10}{151}, \frac{67}{151}, -\frac{66}{151}, -\frac{31}{151}, \frac{18}{151}, \frac{22}{151}, \frac{54}{151}, \frac{12}{151})$ $+\frac{28}{151}\sqrt{21}e^1 \otimes e_4 + \frac{98}{151}e^3 \otimes e_5$	{12368, 1238, 12568, 1258, 1367, 137, 1567, 157, 2346789, 234789, 2456789, 245789, 3469, 349, 4569, 459}
932:1	$0, 0, 0, 0, 0, 0, \frac{7}{143}\sqrt{79}e^{12}, \frac{7}{143}\sqrt{33}e^{17}, \frac{7}{143}\sqrt{33}e^{27}$	$(\frac{10}{143}, \frac{10}{143}, -\frac{3}{11}, -\frac{3}{11}, \frac{38}{143}, -\frac{1}{13}, \frac{20}{143}, \frac{30}{143}, \frac{30}{143})$ $+\frac{49}{143}e^5 \otimes e_6 + \frac{7}{143}\sqrt{105}e^1 \otimes e_3 + \frac{7}{143}\sqrt{105}e^2 \otimes e_4$	{12589, 12689, 14579, 14679, 345, 346}
932:1	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{2}{811}\sqrt{55158}e^{17}, \frac{4}{811}\sqrt{2219}e^{27}$	$(-\frac{114}{811}, \frac{88}{811}, \frac{407}{811}, \frac{494}{811}, -\frac{227}{811}, \frac{90}{811}, -\frac{26}{811}, -\frac{140}{811}, \frac{62}{811})$ $+\frac{4}{811}\sqrt{32017}e^4 \otimes e_8 + \frac{634}{811}e^3 \otimes e_5$	{12368, 1238, 12568, 1258, 13467, 1347, 14567, 1457, 236789, 23789, 256789, 25789, 3469, 349, 4569, 459}
932:1	$0, 0, 0, 0, 0, 0, \frac{2}{1587}\sqrt{87361}e^{12}, \frac{1}{1587}\sqrt{304666}e^{17}, \frac{1}{1587}\sqrt{74630}e^{27}$	$(-\frac{4}{529}, \frac{119}{1587}, -\frac{451}{1587}, -\frac{320}{1587}, \frac{178}{529}, \frac{47}{529}, \frac{107}{1587}, \frac{95}{1587}, \frac{226}{1587})$ $+\frac{1}{1587}\sqrt{345054}e^5 \otimes e_8 + \frac{1}{1587}\sqrt{404758}e^2 \otimes e_4 + \frac{4}{1587}\sqrt{32486}e^1 \otimes e_3$	{12689, 1289, 145679, 14579, 23678, 2378, 345, 3456}
932:1	$0, 0, 0, 0, 0, 0, \frac{14}{55}e^{12}, \frac{7}{55}\sqrt{3}e^{17}, \frac{7}{55}\sqrt{3}e^{27}$	$(\frac{1}{22}, \frac{1}{22}, \frac{61}{110}, \frac{61}{110}, -\frac{37}{110}, -\frac{37}{110}, \frac{1}{11}, \frac{3}{22}, \frac{3}{22})$ $+\frac{49}{55}e^3 \otimes e_5 + \frac{49}{55}e^4 \otimes e_6$	{123489, 123689, 125689, 13479, 13679, 15679, 34, 36, 56}
932:1	$0, 0, 0, 0, 0, 0, \frac{4}{823}\sqrt{6501}e^{12}, \frac{2}{823}\sqrt{21670}e^{17}, \frac{2}{823}\sqrt{13002}e^{27}$	$(\frac{154}{823}, -\frac{120}{823}, \frac{275}{823}, -\frac{240}{823}, \frac{308}{823}, -\frac{119}{823}, \frac{34}{823}, \frac{188}{823}, -\frac{86}{823})$ $+\frac{2}{823}\sqrt{45310}e^5 \otimes e_9 + \frac{2}{823}\sqrt{62646}e^1 \otimes e_4 + \frac{394}{823}e^3 \otimes e_6$	{12389, 12689, 1379, 1679, 234578, 245678, 345, 456}
932:1	$0, 0, 0, 0, 0, 0, \frac{6}{511}\sqrt{854}e^{12}, \frac{4}{511}\sqrt{3477}e^{17}, \frac{1}{511}\sqrt{13359}e^{27}$	$(\frac{16}{511}, -\frac{5}{511}, \frac{134}{511}, -\frac{167}{511}, \frac{30}{73}, -\frac{7}{73}, \frac{11}{511}, \frac{27}{511}, \frac{6}{511})$ $+\frac{183}{511}e^3 \otimes e_6 + \frac{1}{511}\sqrt{61305}e^5 \otimes e_8 + \frac{1}{511}\sqrt{76677}e^1 \otimes e_4$	{1238, 1268, 1357, 1567, 234789, 246789, 3459, 4569}
932:1	$0, 0, 0, 0, 0, 0, \frac{7}{51}\sqrt{34}e^{12}, \frac{14}{17}e^{17}, \frac{7}{51}\sqrt{6}e^{27}$	$(\frac{16}{51}, -\frac{5}{51}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{11}{51}, \frac{9}{17}, \frac{2}{17})$ $+\frac{14}{51}\sqrt{21}e^1 \otimes e_3$	{124568, 12458, 1248, 128, 14567, 1457, 147, 17, 23456789, 2345789, 234789, 23789, 34569, 3459, 349, 39}
932:1	$0, 0, 0, 0, 0, 0, \frac{12}{839}\sqrt{854}e^{12}, \frac{8}{839}\sqrt{3477}e^{17}, \frac{2}{839}\sqrt{13359}e^{27}$	$(\frac{32}{839}, -\frac{10}{839}, \frac{420}{839}, -\frac{334}{839}, \frac{85}{839}, \frac{85}{839}, \frac{22}{839}, \frac{54}{839}, \frac{12}{839})$ $+\frac{2}{839}\sqrt{61305}e^3 \otimes e_8 + \frac{2}{839}\sqrt{76677}e^1 \otimes e_4$	{12568, 1258, 128, 13567, 1357, 137, 2456789, 245789, 24789, 34569, 3459, 349}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{2879}\sqrt{42090}e^{12}, \frac{8}{2879}\sqrt{18910}e^{17}, \frac{4}{2879}\sqrt{46482}e^{13} + \frac{12}{2879}\sqrt{366}e^{27}$	$(\frac{70}{2879}, -\frac{63}{2879}, -\frac{126}{2879}, \frac{1053}{2879}, \frac{920}{2879}, -\frac{906}{2879}, \frac{7}{2879}, \frac{77}{2879}, -\frac{56}{2879})$ $+\frac{12}{2879}\sqrt{15738}e^1 \otimes e_6 + \frac{4}{2879}\sqrt{81130}e^5 \otimes e_9 + \frac{8}{2879}\sqrt{24339}e^4 \otimes e_8$	{12358, 13457, 236789, 3469}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{15502}e^{12}, \frac{2}{177}\sqrt{7414}e^{17}, \frac{2}{531}\sqrt{14491}e^{13} + \frac{4}{531}\sqrt{1685}e^{27}$	$(-\frac{106}{531}, \frac{23}{177}, \frac{46}{177}, 1, \frac{95}{531}, \frac{95}{531}, -\frac{37}{531}, -\frac{143}{531}, \frac{32}{531})$ $+\frac{4}{531}\sqrt{36733}e^4 \otimes e_8$	{12568, 1258, 128, 14567, 1457, 147, 256789, 25789, 2789, 4569, 459, 49}
932:2	$0, 0, 0, 0, 0, 0, \frac{3}{1403}\sqrt{6186}e^{12}, \frac{1}{1403}\sqrt{439206}e^{17}, \frac{1}{1403}\sqrt{476322}e^{13} + \frac{14}{1403}\sqrt{1031}e^{27}$	$(-\frac{267}{1403}, \frac{275}{1403}, \frac{550}{1403}, \frac{772}{1403}, -\frac{481}{1403}, \frac{150}{1403}, \frac{8}{1403}, -\frac{259}{1403}, \frac{283}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^3 \otimes e_5 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_8$	{1245679, 124579, 15689, 1589, 245, 2456, 5678, 578}
932:2	$0, 0, 0, 0, 0, 0, \frac{8}{237}\sqrt{106}e^{12}, \frac{16}{237}\sqrt{5}e^{17}, \frac{8}{237}\sqrt{30}e^{13} + \frac{8}{237}\sqrt{94}e^{27}$	$(\frac{14}{237}, \frac{1}{79}, \frac{2}{79}, -\frac{50}{237}, \frac{28}{79}, -\frac{61}{237}, \frac{17}{237}, \frac{31}{237}, \frac{20}{237})$ $+\frac{16}{237}\sqrt{41}e^2 \otimes e_6 + \frac{8}{237}\sqrt{142}e^1 \otimes e_4 + \frac{8}{79}\sqrt{14}e^5 \otimes e_9$	{1289, 1679, 24578, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1722e^{12}}, \frac{2}{527}\sqrt{20951e^{17}},$ $\frac{2}{527}\sqrt{45633e^{13}} + \frac{14}{527}\sqrt{861e^{27}}$	$(\frac{25}{527}, -\frac{36}{527}, -\frac{72}{527}, 1, \frac{87}{527}, \frac{87}{527}, -\frac{11}{527}, \frac{14}{527}, -\frac{47}{527})$ $+ \frac{4}{527}\sqrt{31570e^4} \otimes e_9$	{12345678, 1234578, 123478, 134, 1345, 13456, 235689, 23589, 2389, 35679, 3579, 379}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{125}\sqrt{3811e^{12}}, \frac{7}{125}\sqrt{37e^{17}}, \frac{1}{125}\sqrt{2183e^{13}} + \frac{7}{125}\sqrt{37e^{27}}$	$(\frac{22}{125}, -\frac{3}{50}, -\frac{3}{25}, -\frac{89}{250}, \frac{12}{125}, \frac{12}{125}, \frac{29}{250}, \frac{7}{125})$ $+ \frac{1}{125}\sqrt{4181e^1} \otimes e_3 + \frac{1}{125}\sqrt{4181e^2} \otimes e_4$	{235678, 23578, 2378, 34, 345, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{191}\sqrt{510e^{12}}, \frac{12}{191}\sqrt{5e^{17}}, \frac{20}{191}\sqrt{21e^{13}} + \frac{4}{191}\sqrt{130e^{27}}$	$(-\frac{21}{191}, \frac{14}{191}, \frac{28}{191}, \frac{52}{191}, \frac{87}{191}, \frac{52}{191}, -\frac{7}{191}, -\frac{28}{191}, \frac{7}{191})$ $+ \frac{10}{191}\sqrt{106e^3} \otimes e_6 + \frac{2}{191}\sqrt{1510e^4} \otimes e_8 + \frac{2}{191}\sqrt{2910e^5} \otimes e_9$	{123578, 1345, 2389, 3479}
932:2	$0, 0, 0, 0, 0, 0, \frac{9}{55}\sqrt{2e^{12}}, \frac{3}{55}\sqrt{23e^{17}}, \frac{3}{55}\sqrt{34e^{13}} + \frac{6}{55}\sqrt{13e^{27}}$	$(-\frac{3}{55}, \frac{9}{110}, \frac{9}{55}, -\frac{27}{110}, \frac{24}{55}, -\frac{9}{55}, \frac{3}{110}, -\frac{3}{110}, \frac{6}{55})$ $+ \frac{3}{55}\sqrt{53e^3} \otimes e_6 + \frac{3}{55}\sqrt{71e^2} \otimes e_4 + \frac{3}{55}\sqrt{79e^5} \otimes e_9$	{1269, 146789, 2567, 4568}
932:2	$0, 0, 0, 0, 0, 0, \frac{3}{1699}\sqrt{30470e^{12}}, \frac{1}{1699}\sqrt{377274e^{17}},$ $\frac{1}{1699}\sqrt{1055370e^{13}} + \frac{6}{1699}\sqrt{8587e^{27}}$	$(-\frac{103}{1699}, \frac{119}{1699}, \frac{238}{1699}, \frac{966}{1699}, -\frac{593}{1699}, \frac{140}{1699}, \frac{16}{1699}, -\frac{87}{1699}, \frac{135}{1699})$ $+ \frac{1}{1699}\sqrt{1218246e^3} \otimes e_5 + \frac{2}{1699}\sqrt{343203e^4} \otimes e_9$	{1234678, 123478, 134, 1346, 23689, 2389, 3679, 379}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{9454e^{12}}, \frac{2}{441}\sqrt{1630e^{17}},$ $\frac{1}{441}\sqrt{25591e^{13}} + \frac{1}{441}\sqrt{6683e^{27}}$	$(\frac{52}{441}, -\frac{37}{294}, -\frac{37}{147}, \frac{47}{98}, \frac{40}{441}, \frac{40}{441}, -\frac{1}{126}, \frac{97}{882}, -\frac{59}{441})$ $+ \frac{1}{147}\sqrt{8313e^1} \otimes e_3 + \frac{1}{63}\sqrt{1141e^4} \otimes e_8$	{12568, 1258, 128, 14567, 1457, 147}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{1299}\sqrt{119305e^{12}}, \frac{4}{1299}\sqrt{12305e^{17}},$ $\frac{1}{1299}\sqrt{41730e^{13}} + \frac{1}{1299}\sqrt{210790e^{27}}$	$(\frac{119}{1299}, \frac{31}{433}, \frac{62}{433}, -\frac{416}{1299}, -\frac{442}{1299}, \frac{49}{433}, \frac{212}{1299}, \frac{331}{1299}, \frac{305}{1299})$ $+ \frac{1}{1299}\sqrt{602410e^1} \otimes e_4 + \frac{1}{1299}\sqrt{630230e^2} \otimes e_5$	{123689, 12389, 135679, 13579, 234678, 23478, 345, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{29}\sqrt{26e^{12}}, \frac{6}{29}\sqrt{13e^{17}}, \frac{2}{29}\sqrt{65e^{13}} + \frac{2}{29}\sqrt{39e^{27}}$	$(\frac{7}{29}, 0, 0, -\frac{19}{29}, \frac{5}{29}, \frac{5}{29}, \frac{7}{29}, \frac{14}{29}, \frac{7}{29})$ $+ \frac{4}{29}\sqrt{78e^1} \otimes e_4$	{123568, 12358, 1238, 13567, 1357, 137, 23456789, 2345789, 234789, 34569, 3459, 349}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{407}\sqrt{1722e^{12}}, \frac{1}{407}\sqrt{20951e^{17}},$ $\frac{1}{407}\sqrt{45633e^{13}} + \frac{7}{407}\sqrt{861e^{27}}$	$(\frac{25}{814}, -\frac{18}{407}, -\frac{36}{407}, \frac{17}{37}, \frac{527}{814}, -\frac{100}{407}, -\frac{1}{74}, \frac{7}{407}, -\frac{47}{814})$ $+ \frac{287}{407}e^4 \otimes e_6 + \frac{2}{407}\sqrt{31570e^5} \otimes e_9$	{1234578, 1235678, 1345, 1356, 23489, 23689, 3479, 3679}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{50794e^{12}}, \frac{4}{539}\sqrt{12815e^{17}},$ $\frac{2}{539}\sqrt{26795e^{13}} + \frac{2}{539}\sqrt{1398e^{27}}$	$(\frac{216}{539}, -\frac{125}{539}, -\frac{250}{539}, \frac{87}{539}, \frac{87}{539}, \frac{87}{539}, \frac{13}{77}, \frac{307}{539}, -\frac{34}{539})$ $+ \frac{4}{539}\sqrt{26329e^1} \otimes e_3$	{124568, 12458, 1248, 128, 14567, 1457, 147, 17}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{815e^{12}}, \frac{1}{128}\sqrt{2445e^{17}},$ $\frac{1}{128}\sqrt{16626e^{13}} + \frac{1}{128}\sqrt{2445e^{27}}$	$(-\frac{25}{256}, \frac{77}{256}, \frac{77}{128}, -\frac{43}{64}, \frac{21}{128}, \frac{21}{128}, \frac{13}{64}, \frac{256}{256}, \frac{129}{256})$ $+ \frac{1}{128}\sqrt{34882e^3} \otimes e_4$	{12456789, 1245789, 124789, 14569, 1459, 149, 24568, 2458, 248, 4567, 457, 47}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{407}\sqrt{1722e^{12}}, \frac{7}{407}\sqrt{861e^{17}},$ $\frac{1}{407}\sqrt{45633e^{13}} + \frac{1}{407}\sqrt{20951e^{27}}$	$(-\frac{195}{814}, \frac{92}{407}, \frac{184}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{87}{814}, -\frac{1}{74}, -\frac{103}{407}, \frac{173}{814})$ $+ \frac{287}{407}e^4 \otimes e_5 + \frac{2}{407}\sqrt{31570e^3} \otimes e_8$	{14689, 1489, 15689, 1589, 4678, 478, 5678, 578}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{3115e^{12}}, \frac{1}{139}\sqrt{1085e^{17}}, \frac{1}{139}\sqrt{1295e^{13}} + \frac{21}{139}\sqrt{5e^{27}}$	$(\frac{18}{139}, -\frac{17}{278}, -\frac{17}{139}, -\frac{87}{278}, \frac{36}{139}, \frac{12}{139}, \frac{19}{278}, \frac{55}{278}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885e^2} \otimes e_4 + \frac{4}{139}\sqrt{105e^5} \otimes e_9 + \frac{5}{139}\sqrt{133e^1} \otimes e_3$	{235678, 23578, 345, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{13}{1531}\sqrt{1486e^{12}}, \frac{15}{1531}\sqrt{1486e^{17}},$ $\frac{1}{1531}\sqrt{646410e^{13}} + \frac{4}{1531}\sqrt{15603e^{27}}$	$(\frac{113}{1531}, \frac{155}{1531}, \frac{310}{1531}, -\frac{630}{1531}, -\frac{433}{1531}, \frac{156}{1531}, \frac{268}{1531}, \frac{381}{1531}, \frac{423}{1531})$ $+ \frac{1}{1531}\sqrt{875254e^3} \otimes e_5 + \frac{2}{1531}\sqrt{291999e^1} \otimes e_4$	{12368, 1238, 1367, 137, 2346789, 234789, 3469, 349}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{434}\sqrt{15502e^{12}}, \frac{3}{434}\sqrt{7414e^{17}},$ $\frac{1}{434}\sqrt{14491e^{13}} + \frac{1}{217}\sqrt{1685e^{27}}$	$(-\frac{53}{434}, \frac{69}{868}, \frac{69}{434}, \frac{108}{217}, \frac{531}{868}, -\frac{121}{434}, -\frac{37}{868}, -\frac{143}{868}, \frac{8}{217})$ $+ \frac{1}{217}\sqrt{36733e^5} \otimes e_8 + \frac{337}{434}e^4 \otimes e_6$	{1248, 1268, 1457, 1567, 24789, 26789, 459, 569}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{2899}\sqrt{302082e^{12}}, \frac{4}{2899}\sqrt{63879e^{17}},$ $\frac{2}{2899}\sqrt{38606e^{13}} + \frac{2}{2899}\sqrt{77610e^{27}}$	$(\frac{1}{2899}, \frac{176}{2899}, \frac{352}{2899}, -\frac{795}{2899}, \frac{974}{2899}, -\frac{620}{2899}, \frac{177}{2899}, \frac{178}{2899}, \frac{353}{2899})$ $+ \frac{10}{2899}\sqrt{13930e^2} \otimes e_6 + \frac{20}{2899}\sqrt{4179e^1} \otimes e_4 + \frac{2}{2899}\sqrt{286162e^5} \otimes e_8$	{12389, 135679, 23478, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{2685e^{12}}, \frac{1}{1259}\sqrt{191530e^{17}},$ $\frac{5}{1259}\sqrt{11814e^{13}} + \frac{18}{1259}\sqrt{895e^{27}}$	$(-\frac{119}{1259}, -\frac{9}{1259}, -\frac{18}{1259}, \frac{648}{1259}, \frac{758}{1259}, \frac{147}{1259}, -\frac{128}{1259}, -\frac{247}{1259}, -\frac{137}{1259})$ $+ \frac{1}{1259}\sqrt{1093690e^5} \otimes e_9 + \frac{1}{1259}\sqrt{896790e^4} \otimes e_8$	{1234567, 123457, 13568, 1358, 23469, 2349, 36789, 3789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:2	$0, 0, 0, 0, 0, 0, \frac{12}{131}\sqrt{37}e^{12}, \frac{6}{131}\sqrt{74}e^{17}, \frac{2}{131}\sqrt{851}e^{13} + \frac{2}{131}\sqrt{1110}e^{27}$	$(-\frac{16}{131}, \frac{19}{131}, \frac{38}{131}, \frac{61}{131}, -\frac{55}{131}, \frac{15}{131}, \frac{3}{131}, -\frac{13}{131}, \frac{22}{131})$ $+ \frac{2}{131}\sqrt{1702}e^4 \otimes e_8 + \frac{2}{131}\sqrt{2590}e^2 \otimes e_5$	{123689, 12389, 1345679, 134579, 23678, 2378, 345, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{2910}e^{12}, \frac{2}{275}\sqrt{4462}e^{17}, \frac{3}{275}\sqrt{679}e^{13} + \frac{1}{275}\sqrt{291}e^{27}$	$(\frac{28}{275}, -\frac{69}{550}, -\frac{69}{275}, \frac{237}{550}, \frac{56}{275}, \frac{24}{275}, -\frac{13}{550}, \frac{43}{275}, -\frac{41}{275})$ $+ \frac{1}{275}\sqrt{24153}e^1 \otimes e_3 + \frac{3}{275}\sqrt{2037}e^4 \otimes e_8 + \frac{8}{275}\sqrt{97}e^5 \otimes e_9$	{12568, 1258, 14567, 1457}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1722}e^{12}, \frac{14}{527}\sqrt{861}e^{17}, \frac{2}{527}\sqrt{45633}e^{13} + \frac{2}{527}\sqrt{20951}e^{27}$	$(-\frac{195}{527}, \frac{184}{527}, \frac{368}{527}, \frac{87}{527}, \frac{87}{527}, \frac{87}{527}, -\frac{11}{527}, -\frac{206}{527}, \frac{173}{527})$ $+ \frac{4}{527}\sqrt{31570}e^3 \otimes e_8$	{145689, 14589, 1489, 189, 45678, 4578, 478, 78}
932:2	$0, 0, 0, 0, 0, 0, \frac{12}{1657}\sqrt{314}e^{12}, \frac{4}{1657}\sqrt{2355}e^{17}, \frac{1}{1657}\sqrt{485130}e^{13} + \frac{12}{1657}\sqrt{157}e^{27}$	$(\frac{56}{1657}, \frac{50}{1657}, \frac{100}{1657}, -\frac{415}{1657}, \frac{627}{1657}, -\frac{371}{1657}, \frac{106}{1657}, \frac{162}{1657}, \frac{156}{1657})$ $+ \frac{1}{1657}\sqrt{464406}e^3 \otimes e_6 + \frac{1}{1657}\sqrt{475710}e^5 \otimes e_9 + \frac{3}{1657}\sqrt{56206}e^1 \otimes e_4$	{12689, 1679, 245678, 456}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{50794}e^{12}, \frac{1}{193}\sqrt{12815}e^{17}, \frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{386}\sqrt{1398}e^{27}$	$(\frac{54}{193}, -\frac{125}{772}, -\frac{125}{386}, \frac{80}{193}, -\frac{73}{386}, \frac{87}{772}, \frac{91}{772}, \frac{307}{772}, -\frac{17}{386})$ $+ \frac{1}{193}\sqrt{26329}e^1 \otimes e_3 + \frac{233}{386}e^4 \otimes e_5$	{12468, 1248, 12568, 1258, 1467, 147, 1567, 157}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{111}\sqrt{51}e^{12}, \frac{1}{111}\sqrt{2278}e^{17}, \frac{1}{111}\sqrt{1870}e^{13} + \frac{34}{111}e^{27}$	$(-\frac{19}{222}, \frac{5}{37}, \frac{10}{37}, -\frac{29}{74}, \frac{10}{111}, \frac{10}{111}, \frac{11}{222}, -\frac{4}{111}, \frac{41}{222})$ $+ \frac{1}{111}\sqrt{3230}e^3 \otimes e_8 + \frac{1}{111}\sqrt{3638}e^1 \otimes e_4$	{13567, 1357, 137, 34569, 3459, 349}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{379}\sqrt{5973}e^{12}, \frac{1}{379}\sqrt{11946}e^{17}, \frac{1}{379}\sqrt{3982}e^{13} + \frac{1}{379}\sqrt{19910}e^{27}$	$(-\frac{52}{379}, \frac{66}{379}, \frac{132}{379}, -\frac{115}{379}, \frac{143}{379}, -\frac{49}{379}, \frac{14}{379}, -\frac{38}{379}, \frac{80}{379})$ $+ \frac{1}{379}\sqrt{30770}e^3 \otimes e_6 + \frac{1}{379}\sqrt{38734}e^5 \otimes e_8 + \frac{1}{379}\sqrt{54662}e^2 \otimes e_4$	{12389, 134579, 2378, 345}
932:2	$0, 0, 0, 0, 0, 0, \frac{12}{77}\sqrt{2}e^{12}, \frac{4}{77}\sqrt{14}e^{17}, \frac{4}{77}\sqrt{78}e^{13} + \frac{4}{77}\sqrt{14}e^{27}$	$(-\frac{25}{154}, \frac{1}{11}, \frac{2}{11}, \frac{2}{7}, \frac{67}{154}, -\frac{10}{77}, -\frac{1}{14}, -\frac{18}{77}, \frac{3}{154})$ $+ \frac{32}{77}e^4 \otimes e_6 + \frac{4}{77}\sqrt{110}e^3 \otimes e_8 + \frac{4}{77}\sqrt{110}e^5 \otimes e_9$	{123457, 123567, 2349, 2369}
932:2	$0, 0, 0, 0, 0, 0, \frac{3}{49}\sqrt{42}e^{12}, \frac{1}{49}\sqrt{714}e^{17}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{210}e^{27}$	$(\frac{1}{49}, \frac{1}{49}, \frac{2}{49}, \frac{24}{49}, -\frac{20}{49}, \frac{5}{49}, \frac{2}{49}, \frac{3}{49}, \frac{3}{49})$ $+ \frac{1}{49}\sqrt{798}e^4 \otimes e_8 + \frac{5}{49}\sqrt{42}e^1 \otimes e_5$	{12368, 1238, 13467, 1347, 2356789, 235789, 34569, 3459}
932:2	$0, 0, 0, 0, 0, 0, \frac{42}{2579}\sqrt{478}e^{12}, \frac{12}{2579}\sqrt{239}e^{17}, \frac{2}{2579}\sqrt{19598}e^{13} + \frac{2}{2579}\sqrt{336990}e^{27}$	$(-\frac{187}{2579}, \frac{136}{2579}, \frac{272}{2579}, \frac{718}{2579}, \frac{1041}{2579}, -\frac{820}{2579}, -\frac{51}{2579}, -\frac{238}{2579}, \frac{85}{2579})$ $+ \frac{2}{2579}\sqrt{232786}e^4 \otimes e_8 + \frac{2}{2579}\sqrt{502378}e^2 \otimes e_6 + \frac{36}{2579}\sqrt{1195}e^5 \otimes e_9$	{12389, 134679, 23578, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{304}{3289}\sqrt{3}e^{12}, \frac{950}{3289}e^{17}, \frac{38}{3289}\sqrt{885}e^{13} + \frac{38}{3289}\sqrt{183}e^{27}$	$(-\frac{241}{3289}, \frac{240}{3289}, \frac{480}{3289}, -\frac{963}{3289}, \frac{961}{3289}, \frac{249}{3289}, -\frac{1}{3289}, -\frac{22}{3289}, \frac{239}{3289})$ $+ \frac{228}{3289}\sqrt{31}e^3 \otimes e_8 + \frac{76}{3289}\sqrt{178}e^5 \otimes e_9 + \frac{76}{3289}\sqrt{303}e^1 \otimes e_4$	{13567, 1357, 3469, 349}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{3301}\sqrt{83197}e^{12}, \frac{2}{3301}\sqrt{264634}e^{17}, \frac{2}{3301}\sqrt{211523}e^{13} + \frac{2}{3301}\sqrt{113590}e^{27}$	$(\frac{272}{3301}, -\frac{171}{3301}, -\frac{342}{3301}, -\frac{785}{3301}, \frac{987}{3301}, \frac{249}{3301}, \frac{101}{3301}, \frac{373}{3301}, -\frac{70}{3301})$ $+ \frac{2}{3301}\sqrt{317438}e^2 \otimes e_4 + \frac{32}{3301}\sqrt{1535}e^1 \otimes e_3 + \frac{6}{3301}\sqrt{25174}e^5 \otimes e_8$	{23678, 2378, 345, 3456}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{3811}e^{12}, \frac{2}{41}\sqrt{37}e^{17}, \frac{2}{287}\sqrt{2183}e^{13} + \frac{2}{41}\sqrt{37}e^{27}$	$(\frac{44}{287}, -\frac{15}{287}, -\frac{30}{287}, -\frac{89}{287}, \frac{61}{287}, -\frac{13}{287}, \frac{29}{287}, \frac{73}{287}, \frac{2}{41})$ $+ \frac{2}{287}\sqrt{4181}e^1 \otimes e_3 + \frac{2}{287}\sqrt{4181}e^2 \otimes e_4 + \frac{74}{287}e^5 \otimes e_6$	{23578, 23678, 345, 346}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{50794}e^{12}, \frac{1}{193}\sqrt{1398}e^{17}, \frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{193}\sqrt{12815}e^{27}$	$(-\frac{5}{386}, \frac{101}{772}, \frac{101}{386}, \frac{80}{193}, -\frac{365}{772}, -\frac{73}{386}, \frac{91}{772}, \frac{81}{772}, \frac{48}{193})$ $+ \frac{1}{193}\sqrt{26329}e^2 \otimes e_5 + \frac{233}{386}e^4 \otimes e_6$	{12349, 12369, 1345789, 1356789, 2347, 2367, 3458, 3568}
932:2	$0, 0, 0, 0, 0, 0, \frac{12}{221}\sqrt{23}e^{12}, \frac{2}{221}\sqrt{1794}e^{17}, \frac{6}{221}\sqrt{138}e^{13} + \frac{1}{221}\sqrt{3243}e^{27}$	$(-\frac{4}{221}, \frac{1}{13}, \frac{2}{13}, -\frac{73}{221}, \frac{6}{17}, -\frac{35}{221}, \frac{1}{17}, \frac{9}{221}, \frac{30}{221})$ $+ \frac{11}{221}\sqrt{69}e^5 \otimes e_8 + \frac{1}{221}\sqrt{12489}e^1 \otimes e_4 + \frac{3}{221}\sqrt{805}e^3 \otimes e_6$	{1238, 1357, 234789, 3459}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{53}e^{12}, \frac{1}{33}\sqrt{159}e^{17}, \frac{1}{33}\sqrt{53}e^{13} + \frac{1}{33}\sqrt{159}e^{27}$	$(\frac{5}{66}, \frac{1}{11}, \frac{2}{11}, 1, -\frac{20}{33}, \frac{13}{66}, \frac{1}{6}, \frac{8}{33}, \frac{17}{66})$ $+ \frac{53}{33}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 14679, 1479, 15679, 1579, 24678, 2478, 25678, 2578, 4, 46, 5, 56}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{51}e^{12}, \frac{1}{128}\sqrt{2278}e^{17}, \frac{1}{128}\sqrt{1870}e^{13} + \frac{17}{64}e^{27}$	$(-\frac{19}{256}, \frac{15}{128}, \frac{15}{64}, -\frac{87}{256}, \frac{27}{128}, -\frac{7}{128}, \frac{11}{256}, -\frac{1}{32}, \frac{41}{256})$ $+ \frac{17}{64}e^5 \otimes e_6 + \frac{1}{128}\sqrt{3230}e^3 \otimes e_8 + \frac{1}{128}\sqrt{3638}e^1 \otimes e_4$	{1357, 1367, 3459, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{50794e^{12}}, \frac{2}{539}\sqrt{1398e^{17}},$ $\frac{2}{539}\sqrt{26795e^{13}} + \frac{4}{539}\sqrt{12815e^{27}}$	$(-\frac{10}{539}, \frac{101}{539}, \frac{202}{539}, -\frac{365}{539}, \frac{87}{539}, \frac{87}{539}, \frac{13}{77}, \frac{81}{539}, \frac{192}{539})$ $+\frac{4}{539}\sqrt{26329e^2} \otimes e_4$	{123569, 12359, 1239, 13456789, 1345789, 134789, 23567, 2357, 237, 34568, 3458, 348}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{35266e^{12}}, \frac{1}{353}\sqrt{6870e^{17}},$ $\frac{1}{353}\sqrt{2290e^{13}} + \frac{2}{353}\sqrt{9389e^{27}}$	$(-\frac{25}{353}, \frac{77}{353}, \frac{154}{353}, -\frac{152}{353}, -\frac{75}{353}, \frac{42}{353}, \frac{52}{353}, \frac{27}{353}, \frac{129}{353})$ $+\frac{2}{353}\sqrt{22213e^2} \otimes e_4 + \frac{3}{353}\sqrt{5954e^3} \otimes e_5$	{12569, 1259, 1456789, 145789, 2567, 257, 4568, 458}
932:2	$0, 0, 0, 0, 0, 0, \frac{12}{61}\sqrt{2e^{12}}, \frac{4}{61}\sqrt{14e^{17}}, \frac{4}{61}\sqrt{78e^{13}} + \frac{4}{61}\sqrt{14e^{27}}$	$(-\frac{25}{122}, \frac{7}{61}, \frac{14}{61}, \frac{67}{61}, \frac{6}{61}, \frac{6}{61}, -\frac{11}{122}, -\frac{18}{61}, \frac{3}{122})$ $+\frac{4}{61}\sqrt{110e^3} \otimes e_8 + \frac{4}{61}\sqrt{110e^4} \otimes e_9$	{1234567, 123457, 12347, 23569, 2359, 239}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{419}\sqrt{815e^{12}}, \frac{2}{419}\sqrt{2445e^{17}},$ $\frac{2}{419}\sqrt{16626e^{13}} + \frac{2}{419}\sqrt{2445e^{27}}$	$(-\frac{25}{419}, \frac{77}{419}, \frac{154}{419}, \frac{205}{419}, -\frac{172}{419}, -\frac{121}{419}, \frac{52}{419}, \frac{27}{419}, \frac{129}{419})$ $+\frac{2}{419}\sqrt{34882e^3} \otimes e_5 + \frac{326}{419}e^4 \otimes e_6$	{1245789, 1256789, 1459, 1569, 2458, 2568, 457, 567}
932:2	$0, 0, 0, 0, 0, 0, \frac{4}{1045}\sqrt{9454e^{12}}, \frac{12}{1045}\sqrt{1630e^{17}},$ $\frac{2}{1045}\sqrt{25591e^{13}} + \frac{2}{1045}\sqrt{6683e^{27}}$	$(\frac{104}{1045}, -\frac{111}{1045}, -\frac{222}{1045}, \frac{243}{1045}, \frac{423}{1045}, -\frac{83}{1045}, -\frac{7}{1045}, \frac{97}{1045}, -\frac{118}{1045})$ $+\frac{14}{1045}\sqrt{1141e^5} \otimes e_8 + \frac{326}{1045}e^4 \otimes e_6 + \frac{6}{1045}\sqrt{8313e^1} \otimes e_3$	{1248, 1268, 1457, 1567}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{26e^{12}}, \frac{1}{7}\sqrt{13e^{17}}, \frac{1}{21}\sqrt{65e^{13}} + \frac{1}{21}\sqrt{39e^{27}}$	$(\frac{1}{6}, 0, 0, \frac{3}{7}, -\frac{19}{42}, -\frac{4}{21}, \frac{1}{6}, \frac{1}{3}, \frac{1}{6})$ $+\frac{13}{21}e^4 \otimes e_6 + \frac{2}{21}\sqrt{78e^1} \otimes e_5$	{12348, 12368, 1347, 1367, 2345789, 2356789, 3459, 3569}
932:2	$0, 0, 0, 0, 0, 0, \frac{3}{1411}\sqrt{37310e^{12}}, \frac{16}{1411}\sqrt{615e^{17}},$ $\frac{3}{1411}\sqrt{2870e^{13}} + \frac{2}{1411}\sqrt{155595e^{27}}$	$(-\frac{23}{1411}, \frac{61}{1411}, \frac{122}{1411}, \frac{42}{83}, -\frac{554}{1411}, \frac{143}{1411}, \frac{38}{1411}, \frac{15}{1411}, \frac{99}{1411})$ $+\frac{1}{1411}\sqrt{702330e^4} \otimes e_9 + \frac{41}{1411}\sqrt{510e^2} \otimes e_5$	{1269, 129, 156789, 15789, 2467, 247, 4568, 458}
932:2	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{13026e^{12}}, \frac{2}{659}\sqrt{10855e^{17}},$ $\frac{2}{659}\sqrt{26553e^{13}} + \frac{2}{659}\sqrt{6513e^{27}}$	$(\frac{91}{659}, -\frac{42}{659}, -\frac{84}{659}, \frac{341}{659}, -\frac{243}{659}, \frac{75}{659}, \frac{49}{659}, \frac{140}{659}, \frac{7}{659})$ $+\frac{2}{659}\sqrt{44422e^4} \otimes e_9 + \frac{2}{659}\sqrt{53106e^1} \otimes e_5$	{12689, 1289, 1679, 179, 245678, 24578, 45, 456}
932:2	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{5529e^{12}}, \frac{1}{275}\sqrt{291e^{17}}, \frac{3}{275}\sqrt{679e^{13}} + \frac{1}{25}\sqrt{97e^{27}}$	$(-\frac{69}{550}, \frac{28}{275}, \frac{56}{275}, -\frac{69}{275}, \frac{237}{550}, \frac{24}{275}, -\frac{13}{550}, -\frac{41}{275}, \frac{43}{550})$ $+\frac{1}{275}\sqrt{12319e^3} \otimes e_8 + \frac{1}{275}\sqrt{18042e^2} \otimes e_4 + \frac{3}{275}\sqrt{2037e^5} \otimes e_9$	{146789, 14789, 4568, 458}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{295}\sqrt{2470e^{12}}, \frac{4}{295}\sqrt{247e^{17}}, \frac{2}{295}\sqrt{4290e^{27}} + \frac{2}{295}\sqrt{754e^{34}}$	$(-\frac{3}{295}, \frac{5}{118}, \frac{63}{295}, -\frac{41}{295}, \frac{126}{295}, -\frac{183}{590}, \frac{19}{590}, \frac{13}{590}, \frac{22}{295})$ $+\frac{104}{295}e^3 \otimes e_4 + \frac{156}{295}e^2 \otimes e_6 + \frac{2}{295}\sqrt{5226e^5} \otimes e_9$	{1239, 1249, 136789, 146789}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{43282e^{12}}, \frac{2}{2097}\sqrt{7973e^{17}},$ $\frac{2}{2097}\sqrt{105927e^{27}} + \frac{7}{2097}\sqrt{29614e^{34}}$	$(\frac{46}{699}, -\frac{34}{2097}, \frac{479}{2097}, -\frac{409}{2097}, \frac{403}{699}, -\frac{220}{699}, \frac{104}{2097}, \frac{242}{2097}, \frac{70}{2097})$ $+\frac{1}{699}\sqrt{248302e^5} \otimes e_9 + \frac{4}{2097}\sqrt{126429e^3} \otimes e_6$	{12389, 124689, 1379, 14679, 234578, 25678, 345, 56}
932:3	$0, 0, 0, 0, 0, 0, \frac{29}{1577}\sqrt{682e^{12}}, \frac{2}{1577}\sqrt{128557e^{17}},$ $\frac{3}{1577}\sqrt{19778e^{27}} + \frac{22}{1577}\sqrt{899e^{34}}$	$(\frac{352}{1577}, -\frac{213}{1577}, -\frac{37}{1577}, -\frac{37}{1577}, \frac{825}{1577}, -\frac{547}{1577}, \frac{139}{1577}, \frac{491}{1577}, -\frac{74}{1577})$ $+\frac{4}{1577}\sqrt{84506e^1} \otimes e_6 + \frac{62}{1577}\sqrt{290e^5} \otimes e_9$	{12389, 1379, 2345678, 25678, 3456, 56}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{910e^{12}}, \frac{2}{81}\sqrt{91e^{17}}, \frac{7}{81}\sqrt{78e^{27}} + \frac{2}{81}\sqrt{910e^{34}}$	$(\frac{4}{27}, -\frac{11}{81}, -\frac{5}{81}, -\frac{5}{81}, 1, \frac{5}{27}, \frac{1}{81}, \frac{13}{81}, -\frac{10}{81})$ $+\frac{2}{81}\sqrt{3003e^5} \otimes e_9$	{12369, 1239, 136789, 13789, 234567, 23457, 2567, 257, 34568, 3458, 568, 58}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{682e^{12}}, \frac{2}{33}\sqrt{186e^{17}}, \frac{1}{33}\sqrt{186e^{27}} + \frac{1}{33}\sqrt{186e^{34}}$	$(\frac{10}{33}, -\frac{2}{33}, \frac{1}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{8}{33}, \frac{6}{11}, \frac{2}{11})$ $+\frac{1}{11}\sqrt{186e^1} \otimes e_5$	{123468, 12348, 1268, 128, 13467, 1347, 167, 17, 2356789, 235789, 3569, 359}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{682e^{12}}, \frac{4}{97}\sqrt{186e^{17}}, \frac{2}{97}\sqrt{186e^{27}} + \frac{2}{97}\sqrt{186e^{34}}$	$(\frac{20}{97}, -\frac{4}{97}, \frac{37}{97}, -\frac{25}{97}, -\frac{42}{97}, \frac{12}{97}, \frac{16}{97}, \frac{36}{97}, \frac{12}{97})$ $+\frac{62}{97}e^3 \otimes e_4 + \frac{6}{97}\sqrt{186e^1} \otimes e_5$	{2356789, 235789, 2456789, 245789, 3569, 359, 4569, 459}
932:3	$0, 0, 0, 0, 0, 0, \frac{5}{361}\sqrt{1194e^{12}}, \frac{4}{361}\sqrt{2189e^{17}},$ $\frac{1}{361}\sqrt{15522e^{27}} + \frac{1}{361}\sqrt{29054e^{34}}$	$(\frac{62}{361}, \frac{8}{361}, \frac{107}{361}, -\frac{29}{361}, -\frac{137}{361}, -\frac{92}{361}, \frac{70}{361}, \frac{132}{361}, \frac{78}{361})$ $+\frac{1}{361}\sqrt{72038e^1} \otimes e_5 + \frac{4}{361}\sqrt{3383e^3} \otimes e_6$	{12348, 1268, 1347, 167, 235789, 2456789, 359, 4569}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{88}\sqrt{330e^{12}}, \frac{1}{88}\sqrt{570e^{17}}, \frac{5}{88}\sqrt{2e^{27}} + \frac{1}{88}\sqrt{570e^{34}}$	$(\frac{9}{176}, -\frac{5}{88}, \frac{7}{44}, -\frac{39}{176}, \frac{7}{44}, \frac{1}{22}, -\frac{1}{176}, \frac{1}{22}, -\frac{1}{16})$ $+\frac{1}{88}\sqrt{670e^3} \otimes e_8 + \frac{5}{44}e^5 \otimes e_6 - \frac{9}{88}\sqrt{10e^1} \otimes e_9$	{1258, 1268, 13457, 13467, 245789, 246789, 359, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{88}\sqrt{330}e^{12}, \frac{1}{88}\sqrt{570}e^{17}, \frac{5}{88}\sqrt{2}e^{27} + \frac{1}{88}\sqrt{570}e^{34}$	$(\frac{9}{176}, -\frac{5}{88}, \frac{7}{44}, -\frac{39}{176}, \frac{7}{44}, \frac{1}{22}, -\frac{1}{176}, \frac{1}{22}, -\frac{1}{16})$ $+ \frac{1}{88}\sqrt{670}e^3 \otimes e_8 + \frac{5}{44}e^5 \otimes e_6 + \frac{9}{88}\sqrt{10}e^1 \otimes e_9$	{1258, 1268, 13457, 13467, 245789, 246789, 359, 369}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{1745}\sqrt{25971}e^{12}, \frac{2}{1745}\sqrt{144021}e^{17},$ $\frac{2}{1745}\sqrt{11018}e^{27} + \frac{1}{1745}\sqrt{930234}e^{34}$	$(-\frac{234}{1745}, \frac{32}{349}, \frac{479}{1745}, -\frac{393}{1745}, \frac{873}{1745}, \frac{198}{1745}, -\frac{74}{1745}, -\frac{308}{1745}, \frac{86}{1745})$ $+ \frac{3}{349}\sqrt{4722}e^5 \otimes e_9 + \frac{4}{1745}\sqrt{85783}e^3 \otimes e_8$	{12568, 1258, 134567, 13457, 246789, 24789, 369, 39}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{1749}e^{17},$ $\frac{2}{185}\sqrt{583}e^{27} + \frac{2}{185}\sqrt{1749}e^{34}$	$(-\frac{42}{185}, \frac{11}{37}, \frac{77}{185}, -\frac{9}{185}, \frac{51}{185}, \frac{24}{185}, \frac{13}{185}, -\frac{29}{185}, \frac{68}{185})$ $+ \frac{2}{185}\sqrt{4558}e^3 \otimes e_8 + \frac{2}{37}\sqrt{159}e^2 \otimes e_5$	{124689, 12489, 135679, 13579, 2678, 278, 345, 3456}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{521}\sqrt{4030}e^{12}, \frac{2}{521}\sqrt{23374}e^{17},$ $\frac{1}{521}\sqrt{22971}e^{27} + \frac{1}{521}\sqrt{23777}e^{34}$	$(-\frac{76}{521}, \frac{137}{1042}, \frac{232}{521}, -\frac{171}{521}, \frac{639}{1042}, \frac{60}{521}, -\frac{15}{1042}, -\frac{167}{1042}, \frac{61}{521})$ $+ \frac{1}{521}\sqrt{209157}e^5 \otimes e_8 + \frac{403}{521}e^3 \otimes e_4$	{236789, 23789, 246789, 24789, 3569, 359, 4569, 459}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{13213}e^{12}, \frac{1}{146}\sqrt{5430}e^{17},$ $\frac{1}{146}\sqrt{2534}e^{27} + \frac{1}{146}\sqrt{181}e^{34}$	$(\frac{37}{438}, \frac{71}{876}, \frac{9}{73}, \frac{9}{73}, -\frac{24}{73}, -\frac{97}{292}, \frac{145}{876}, \frac{1}{4}, \frac{18}{73})$ $+ \frac{1}{146}\sqrt{7783}e^1 \otimes e_5 + \frac{1}{438}\sqrt{70590}e^2 \otimes e_6$	{123489, 1289, 134679, 1679, 23578, 356}
932:3	$0, 0, 0, 0, 0, 0, \frac{3}{145}\sqrt{73}e^{12}, \frac{4}{145}\sqrt{146}e^{17}, \frac{2}{145}\sqrt{365}e^{27} + \frac{6}{145}\sqrt{73}e^{34}$	$(-\frac{7}{145}, -\frac{1}{145}, \frac{32}{145}, -\frac{41}{145}, \frac{2}{5}, \frac{64}{145}, -\frac{8}{145}, -\frac{3}{29}, -\frac{9}{145})$ $+ \frac{1}{145}\sqrt{6497}e^5 \otimes e_8 + \frac{1}{145}\sqrt{7373}e^6 \otimes e_9 + \frac{73}{145}e^3 \otimes e_4$	{12389, 12489, 13579, 14579}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{7171}e^{12}, \frac{1}{157}\sqrt{1515}e^{17},$ $\frac{9}{157}\sqrt{101}e^{27} + \frac{1}{157}\sqrt{1515}e^{34}$	$(-\frac{10}{157}, \frac{61}{314}, \frac{76}{157}, -\frac{25}{157}, -\frac{141}{314}, \frac{18}{157}, \frac{41}{314}, \frac{51}{157})$ $+ \frac{101}{157}e^3 \otimes e_4 + \frac{1}{157}\sqrt{17877}e^2 \otimes e_5$	{2367, 237, 2467, 247, 3568, 358, 4568, 458}
932:3	$0, 0, 0, 0, 0, 0, \frac{58}{4053}\sqrt{682}e^{12}, \frac{4}{4053}\sqrt{128557}e^{17},$ $\frac{2}{1351}\sqrt{19778}e^{27} + \frac{44}{4053}\sqrt{899}e^{34}$	$(\frac{704}{4053}, -\frac{142}{1351}, \frac{275}{1351}, -\frac{139}{579}, \frac{550}{1351}, -\frac{1094}{4053}, \frac{278}{4053}, \frac{982}{4053}, -\frac{148}{4053})$ $+ \frac{124}{4053}\sqrt{290}e^5 \otimes e_9 + \frac{1}{4053}\sqrt{1798}e^3 \otimes e_4 + \frac{8}{4053}\sqrt{84506}e^1 \otimes e_6$	{12389, 12489, 1379, 1479}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{253}\sqrt{910}e^{12}, \frac{4}{253}\sqrt{91}e^{17}, \frac{14}{253}\sqrt{78}e^{27} + \frac{4}{253}\sqrt{910}e^{34}$	$(\frac{24}{253}, -\frac{2}{23}, \frac{81}{253}, -\frac{101}{253}, \frac{162}{253}, \frac{30}{253}, \frac{2}{253}, \frac{26}{253}, -\frac{20}{253})$ $+ \frac{182}{253}e^3 \otimes e_4 + \frac{4}{253}\sqrt{3003}e^5 \otimes e_9$	{12369, 1239, 12469, 1249, 136789, 13789, 146789, 14789}
932:3	$0, 0, 0, 0, 0, 0, \frac{21}{1193}\sqrt{38}e^{12}, \frac{2}{1193}\sqrt{27398}e^{17},$ $\frac{76}{1193}\sqrt{7}e^{27} + \frac{6}{1193}\sqrt{6251}e^{34}$	$(-\frac{143}{1193}, \frac{139}{1193}, \frac{16}{1193}, \frac{119}{1193}, \frac{401}{1193}, -\frac{250}{1193}, -\frac{4}{1193}, -\frac{147}{1193}, \frac{135}{1193})$ $+ \frac{1}{1193}\sqrt{163058}e^5 \otimes e_9 + \frac{1}{1193}\sqrt{183274}e^3 \otimes e_6 + \frac{1}{1193}\sqrt{238070}e^4 \otimes e_8$	{12568, 13457, 23789, 469}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{1539}\sqrt{157621}e^{12}, \frac{1}{1539}\sqrt{299770}e^{17},$ $\frac{1}{1539}\sqrt{551190}e^{27} + \frac{8}{1539}\sqrt{967}e^{34}$	$(-\frac{292}{1539}, \frac{367}{1539}, \frac{221}{1539}, \frac{221}{1539}, \frac{250}{1539}, \frac{200}{513}, \frac{25}{513}, -\frac{217}{1539}, \frac{442}{1539})$ $+ \frac{1}{1539}\sqrt{1084974}e^5 \otimes e_8 + \frac{1}{1539}\sqrt{1525926}e^2 \otimes e_6$	{123489, 1289, 1345679, 15679, 2378, 356}
932:3	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030}e^{12}, \frac{4}{639}\sqrt{23374}e^{17},$ $\frac{2}{639}\sqrt{22971}e^{27} + \frac{2}{639}\sqrt{23777}e^{34}$	$(-\frac{152}{639}, \frac{137}{639}, \frac{61}{639}, \frac{61}{639}, 1, \frac{40}{213}, -\frac{5}{213}, -\frac{167}{639}, \frac{122}{639})$ $+ \frac{2}{639}\sqrt{209157}e^5 \otimes e_8$	{123468, 12348, 1268, 128, 134567, 13457, 1567, 157, 236789, 23789, 3569, 359}
932:3	$0, 0, 0, 0, 0, 0, \frac{8}{215}\sqrt{69}e^{12}, \frac{4}{215}\sqrt{2001}e^{17}, \frac{92}{215}\sqrt{2}e^{27} + \frac{4}{215}\sqrt{2001}e^{34}$	$(-\frac{63}{215}, \frac{14}{43}, \frac{128}{215}, -\frac{51}{215}, \frac{36}{215}, \frac{36}{215}, \frac{7}{215}, -\frac{56}{215}, \frac{77}{215})$ $+ \frac{4}{215}\sqrt{4117}e^3 \otimes e_8$	{12568, 1258, 128, 134567, 13457, 1347, 2456789, 245789, 24789, 3569, 359, 39}
932:3	$0, 0, 0, 0, 0, 0, \frac{22}{2785}\sqrt{1299}e^{12}, \frac{2}{2785}\sqrt{92229}e^{17},$ $\frac{2}{2785}\sqrt{182293}e^{27} + \frac{6}{2785}\sqrt{24681}e^{34}$	$(-\frac{312}{2785}, \frac{61}{557}, \frac{547}{2785}, -\frac{249}{2785}, \frac{1164}{2785}, -\frac{561}{2785}, -\frac{7}{2785}, -\frac{319}{2785}, \frac{298}{2785})$ $+ \frac{12}{557}\sqrt{433}e^5 \otimes e_9 + \frac{2}{557}\sqrt{14289}e^2 \otimes e_6 + \frac{4}{2785}\sqrt{86167}e^3 \otimes e_8$	{12489, 13679, 2578, 3456}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{2338}e^{12}, \frac{4}{209}\sqrt{501}e^{17}, \frac{2}{209}\sqrt{1002}e^{27} + \frac{4}{209}\sqrt{501}e^{34}$	$(\frac{16}{209}, \frac{2}{19}, \frac{197}{209}, -\frac{137}{209}, \frac{42}{209}, \frac{22}{209}, \frac{54}{209}, \frac{60}{209})$ $+ \frac{334}{209}e^3 \otimes e_4$	{1235689, 123589, 12389, 1245689, 124589, 12489, 135679, 13579, 1379, 145679, 14579, 1479}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{243}\sqrt{2470}e^{12}, \frac{4}{243}\sqrt{247}e^{17}, \frac{2}{243}\sqrt{4290}e^{27} + \frac{2}{243}\sqrt{754}e^{34}$	$(-\frac{1}{81}, \frac{25}{486}, \frac{11}{243}, \frac{11}{243}, \frac{14}{27}, -\frac{61}{162}, \frac{19}{486}, \frac{13}{486}, \frac{22}{243})$ $+ \frac{2}{243}\sqrt{5226}e^5 \otimes e_9 + \frac{52}{81}e^2 \otimes e_6$	{1239, 136789, 23457, 257, 34568, 568}
932:3	$0, 0, 0, 0, 0, 0, \frac{8}{307}\sqrt{69}e^{12}, \frac{4}{307}\sqrt{2001}e^{17}, \frac{92}{307}\sqrt{2}e^{27} + \frac{4}{307}\sqrt{2001}e^{34}$	$(-\frac{63}{307}, \frac{70}{307}, \frac{128}{307}, -\frac{51}{307}, \frac{128}{307}, -\frac{56}{307}, \frac{7}{307}, -\frac{56}{307}, \frac{77}{307})$ $+ \frac{184}{307}e^5 \otimes e_6 + \frac{4}{307}\sqrt{4117}e^3 \otimes e_8$	{1258, 1268, 13457, 13467, 245789, 246789, 359, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{1313}\sqrt{49922e^{12}}, \frac{2}{1313}\sqrt{92058e^{17}},$ $\frac{2}{1313}\sqrt{27938e^{27}} + \frac{2}{1313}\sqrt{18091e^{34}}$	$(\frac{34}{1313}, \frac{19}{1313}, \frac{265}{1313}, -\frac{193}{1313}, \frac{545}{1313}, -\frac{424}{1313}, \frac{53}{1313}, \frac{87}{1313}, \frac{72}{1313})$ $+ \frac{14}{1313}\sqrt{2519e^1} \otimes e_6 + \frac{2}{1313}\sqrt{98470e^5} \otimes e_8 + \frac{458}{1313}e^3 \otimes e_4$	{236789, 246789, 3569, 4569}
932:3	$0, 0, 0, 0, 0, 0, \frac{6}{217}\sqrt{73e^{12}}, \frac{8}{217}\sqrt{146e^{17}}, \frac{4}{217}\sqrt{365e^{27}} + \frac{12}{217}\sqrt{73e^{34}}$	$(-\frac{2}{31}, -\frac{2}{217}, -\frac{9}{217}, -\frac{9}{217}, \frac{116}{217}, \frac{128}{217}, -\frac{16}{217}, -\frac{30}{217}, -\frac{18}{217})$ $+ \frac{2}{217}\sqrt{6497e^5} \otimes e_8 + \frac{2}{217}\sqrt{7373e^6} \otimes e_9$	{12389, 13579, 234678, 2678, 3456, 56}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{1539}\sqrt{157621e^{12}}, \frac{8}{1539}\sqrt{967e^{17}},$ $\frac{1}{1539}\sqrt{551190e^{27}} + \frac{1}{1539}\sqrt{299770e^{34}}$	$(-\frac{35}{513}, \frac{367}{1539}, \frac{595}{1539}, \frac{34}{1539}, -\frac{200}{513}, -\frac{124}{513}, \frac{262}{1539}, \frac{157}{1539}, \frac{629}{1539})$ $+ \frac{1}{1539}\sqrt{1084974e^3} \otimes e_6 + \frac{1}{1539}\sqrt{1525926e^2} \otimes e_5$	{1239, 12469, 135789, 1456789, 2347, 267, 3458, 568}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{213}\sqrt{7171e^{12}}, \frac{2}{213}\sqrt{1515e^{17}}, \frac{6}{71}\sqrt{101e^{27}} + \frac{2}{213}\sqrt{1515e^{34}}$	$(-\frac{20}{213}, \frac{61}{213}, \frac{17}{71}, \frac{17}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{41}{213}, \frac{7}{71}, \frac{34}{71})$ $+ \frac{2}{213}\sqrt{17877e^2} \otimes e_5$	{123469, 12349, 1269, 129, 13456789, 1345789, 156789, 15789, 2367, 237, 3568, 358}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{2117}\sqrt{108606e^{12}}, \frac{4}{2117}\sqrt{55877e^{17}},$ $\frac{20}{2117}\sqrt{1574e^{27}} + \frac{1}{2117}\sqrt{1320586e^{34}}$	$(-\frac{430}{2117}, \frac{538}{2117}, \frac{181}{2117}, \frac{465}{2117}, -\frac{606}{2117}, \frac{207}{2117}, \frac{108}{2117}, -\frac{322}{2117}, \frac{646}{2117})$ $+ \frac{1}{2117}\sqrt{1279662e^3} \otimes e_5 + \frac{1}{2117}\sqrt{1726678e^4} \otimes e_8$	{12568, 1258, 13467, 1347, 236789, 23789, 4569, 459}
932:3	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030e^{12}}, \frac{2}{639}\sqrt{23777e^{17}},$ $\frac{2}{639}\sqrt{22971e^{27}} + \frac{4}{639}\sqrt{23374e^{34}}$	$(\frac{7}{213}, \frac{137}{639}, \frac{407}{639}, -\frac{112}{639}, -\frac{133}{213}, \frac{40}{213}, \frac{158}{639}, \frac{179}{639}, \frac{295}{639})$ $+ \frac{2}{639}\sqrt{209157e^3} \otimes e_5$	{123468, 12348, 12568, 1258, 13467, 1347, 1567, 157, 236789, 23789, 2456789, 245789, 369, 39, 4569, 459}
932:3	$0, 0, 0, 0, 0, 0, \frac{4}{4045}\sqrt{157621e^{12}}, \frac{2}{4045}\sqrt{299770e^{17}},$ $\frac{2}{4045}\sqrt{551190e^{27}} + \frac{16}{4045}\sqrt{967e^{34}}$	$(-\frac{584}{4045}, \frac{734}{4045}, \frac{1409}{4045}, -\frac{105}{809}, \frac{300}{809}, -\frac{240}{809}, \frac{30}{809}, -\frac{434}{4045}, \frac{884}{4045})$ $+ \frac{1934}{4045}e^3 \otimes e_4 + \frac{2}{4045}\sqrt{1084974e^5} \otimes e_8 + \frac{2}{4045}\sqrt{1525926e^2} \otimes e_6$	{2378, 2478, 356, 456}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{288}\sqrt{11590e^{12}}, \frac{1}{288}\sqrt{25010e^{17}},$ $\frac{1}{288}\sqrt{10065e^{27}} + \frac{1}{288}\sqrt{32635e^{34}}$	$(-\frac{1}{192}, \frac{13}{72}, \frac{205}{1152}, \frac{205}{1152}, -\frac{45}{128}, -\frac{45}{128}, \frac{101}{576}, \frac{49}{288}, \frac{205}{576})$ $+ \frac{1}{576}\sqrt{158295e^3} \otimes e_5 + \frac{1}{576}\sqrt{158295e^4} \otimes e_6$	{12348, 12568, 1347, 1567, 236789, 369}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{3693}\sqrt{211233e^{12}}, \frac{2}{3693}\sqrt{449735e^{17}},$ $\frac{2}{3693}\sqrt{134717e^{27}} + \frac{22}{3693}\sqrt{3145e^{34}}$	$(-\frac{67}{3693}, \frac{50}{1231}, \frac{830}{3693}, \frac{199}{1231}, \frac{349}{1231}, \frac{881}{3693}, \frac{83}{3693}, \frac{16}{3693}, \frac{233}{3693})$ $+ \frac{2}{3693}\sqrt{288563e^5} \otimes e_9 + \frac{2}{3693}\sqrt{496133e^1} \otimes e_6 + \frac{2}{3693}\sqrt{580789e^3} \otimes e_8$	{1258, 13457, 246789, 369}
932:3	$0, 0, 0, 0, 0, 0, \frac{3}{1973}\sqrt{44538e^{12}}, \frac{4}{1973}\sqrt{55387e^{17}},$ $\frac{1}{1973}\sqrt{405410e^{27}} + \frac{1}{1973}\sqrt{563006e^{34}}$	$(-\frac{74}{1973}, \frac{208}{1973}, \frac{631}{1973}, -\frac{289}{1973}, -\frac{645}{1973}, \frac{204}{1973}, \frac{134}{1973}, \frac{60}{1973}, \frac{342}{1973})$ $+ \frac{1}{1973}\sqrt{969558e^1} \otimes e_5 + \frac{4}{1973}\sqrt{65665e^3} \otimes e_8$	{1268, 128, 13467, 1347, 2456789, 245789, 3569, 359}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{83}\sqrt{330e^{12}}, \frac{1}{83}\sqrt{570e^{17}}, \frac{5}{83}\sqrt{2e^{27}} + \frac{1}{83}\sqrt{570e^{34}}$	$(\frac{9}{166}, -\frac{5}{83}, \frac{14}{83}, -\frac{39}{166}, \frac{9}{83}, \frac{9}{83}, -\frac{1}{166}, \frac{4}{83}, -\frac{11}{166})$ $+ \frac{1}{83}\sqrt{670e^3} \otimes e_8 + \frac{9}{83}\sqrt{10e^1} \otimes e_9$	{12568, 1258, 128, 134567, 13457, 1347, 2456789, 245789, 24789, 3569, 359, 39}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{83}\sqrt{330e^{12}}, \frac{1}{83}\sqrt{570e^{17}}, \frac{5}{83}\sqrt{2e^{27}} + \frac{1}{83}\sqrt{570e^{34}}$	$(\frac{9}{166}, -\frac{5}{83}, \frac{14}{83}, -\frac{39}{166}, \frac{9}{83}, \frac{9}{83}, -\frac{1}{166}, \frac{4}{83}, -\frac{11}{166})$ $+ \frac{1}{83}\sqrt{670e^3} \otimes e_8 - \frac{9}{83}\sqrt{10e^1} \otimes e_9$	{12568, 1258, 128, 134567, 13457, 1347, 2456789, 245789, 24789, 3569, 359, 39}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{542}\sqrt{49922e^{12}}, \frac{1}{542}\sqrt{92058e^{17}},$ $\frac{1}{542}\sqrt{27938e^{27}} + \frac{1}{542}\sqrt{18091e^{34}}$	$(\frac{17}{542}, \frac{19}{1084}, \frac{9}{271}, \frac{9}{271}, \frac{545}{1084}, -\frac{106}{271}, \frac{53}{1084}, \frac{87}{1084}, \frac{18}{271})$ $+ \frac{1}{542}\sqrt{98470e^5} \otimes e_8 + \frac{7}{542}\sqrt{2519e^1} \otimes e_6$	{12348, 128, 13457, 157, 236789, 3569}
932:3	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{2338e^{12}}, \frac{4}{209}\sqrt{501e^{17}}, \frac{2}{209}\sqrt{1002e^{27}} + \frac{4}{209}\sqrt{501e^{34}}$	$(\frac{16}{209}, \frac{2}{19}, \frac{30}{209}, \frac{30}{209}, 1, -\frac{125}{209}, \frac{2}{11}, \frac{54}{209}, \frac{60}{209})$ $+ \frac{334}{209}e^5 \otimes e_6$	{123589, 123689, 13579, 13679, 234578, 234678, 2578, 2678, 345, 346, 5, 6}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{188}\sqrt{2338e^{12}}, \frac{1}{94}\sqrt{501e^{17}}, \frac{1}{188}\sqrt{1002e^{27}} + \frac{1}{94}\sqrt{501e^{34}}$	$(\frac{2}{47}, \frac{11}{188}, \frac{197}{376}, -\frac{137}{376}, \frac{209}{376}, -\frac{125}{376}, \frac{19}{188}, \frac{27}{188}, \frac{15}{94})$ $+ \frac{167}{188}e^3 \otimes e_4 + \frac{167}{188}e^5 \otimes e_6$	{123589, 123689, 124589, 124689, 13579, 13679, 14579, 14679}
932:3	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7770e^{12}}, \frac{1}{391}\sqrt{45066e^{17}},$ $\frac{1}{391}\sqrt{22274e^{27}} + \frac{1}{391}\sqrt{45066e^{34}}$	$(-\frac{57}{391}, \frac{73}{391}, \frac{131}{391}, -\frac{42}{391}, \frac{218}{391}, -\frac{128}{391}, \frac{16}{391}, -\frac{41}{391}, \frac{89}{391})$ $+ \frac{1}{391}\sqrt{89614e^3} \otimes e_6 + \frac{1}{391}\sqrt{89614e^5} \otimes e_8$	{12348, 1268, 13457, 1567, 23789, 246789, 359, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{57}e^{12}, \frac{6}{71}\sqrt{19}e^{17} - \frac{2}{71}\sqrt{57}e^{23},$ $\frac{2}{71}\sqrt{57}e^{13} + \frac{6}{71}\sqrt{19}e^{27}$	$(\frac{6}{71}, \frac{6}{71}, \frac{12}{71}, 1, -\frac{43}{71}, \frac{14}{71}, \frac{12}{71}, \frac{18}{71}, \frac{18}{71})$ $+ \frac{114}{71}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 14679, 1479, 15679, 1579, 4, 46, 5, 56, 124689, 12489, 125689, 12589, 14679, 1479, 15679, 1579, 4, 46, 5, 56}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{57}e^{12}, \frac{6}{71}\sqrt{19}e^{17} + \frac{2}{71}\sqrt{57}e^{23},$ $\frac{2}{71}\sqrt{57}e^{13} + \frac{6}{71}\sqrt{19}e^{27}$	$(\frac{6}{71}, \frac{6}{71}, \frac{12}{71}, 1, -\frac{43}{71}, \frac{14}{71}, \frac{12}{71}, \frac{18}{71}, \frac{18}{71})$ $+ \frac{114}{71}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 14679, 1479, 15679, 1579, 4, 46, 5, 56, 124689, 12489, 125689, 12589, 14679, 1479, 15679, 1579, 4, 46, 5, 56}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{598}e^{12}, \frac{3}{281}\sqrt{5681}e^{17} - \frac{5}{281}\sqrt{2093}e^{23},$ $\frac{1}{281}\sqrt{18239}e^{13} + \frac{13}{281}\sqrt{115}e^{27}$	$(-\frac{6}{281}, -\frac{6}{281}, -\frac{12}{281}, 1, \frac{45}{281}, \frac{45}{281}, -\frac{12}{281}, -\frac{18}{281}, -\frac{18}{281})$ $+ \frac{2}{281}\sqrt{35282}e^4 \otimes e_8$	{12345679, 1234579, 123479, 135689, 13589, 1389, 234, 2345, 23456, 35678, 3578, 378, 12345679, 1234579, 123479, 135689, 13589, 1389, 234, 2345, 23456, 35678, 3578, 378}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{598}e^{12}, \frac{3}{281}\sqrt{5681}e^{17} + \frac{5}{281}\sqrt{2093}e^{23},$ $\frac{1}{281}\sqrt{18239}e^{13} + \frac{13}{281}\sqrt{115}e^{27}$	$(-\frac{6}{281}, -\frac{6}{281}, -\frac{12}{281}, 1, \frac{45}{281}, \frac{45}{281}, -\frac{12}{281}, -\frac{18}{281}, -\frac{18}{281})$ $+ \frac{2}{281}\sqrt{35282}e^4 \otimes e_8$	{12345679, 1234579, 123479, 135689, 13589, 1389, 234, 2345, 23456, 35678, 3578, 378, 12345679, 1234579, 123479, 135689, 13589, 1389, 234, 2345, 23456, 35678, 3578, 378}
932:4	$0, 0, 0, 0, 0, 0, \frac{8}{275}\sqrt{339}e^{12}, \frac{1}{275}\sqrt{9379}e^{17} - \frac{1}{275}\sqrt{1469}e^{23},$ $\frac{1}{275}\sqrt{1469}e^{13} + \frac{1}{275}\sqrt{9379}e^{27}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{91}{275}, -\frac{91}{275}, \frac{31}{275}, \frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{275}\sqrt{6893}e^1 \otimes e_4 + \frac{2}{275}\sqrt{6893}e^2 \otimes e_5$	{123689, 12389, 135679, 13579, 345, 3456, 123689, 12389, 135679, 13579, 345, 3456}
932:4	$0, 0, 0, 0, 0, 0, \frac{8}{275}\sqrt{339}e^{12}, \frac{1}{275}\sqrt{9379}e^{17} + \frac{1}{275}\sqrt{1469}e^{23},$ $\frac{1}{275}\sqrt{1469}e^{13} + \frac{1}{275}\sqrt{9379}e^{27}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{91}{275}, -\frac{91}{275}, \frac{31}{275}, \frac{4}{25}, \frac{6}{25}, \frac{6}{25})$ $+ \frac{2}{275}\sqrt{6893}e^1 \otimes e_4 + \frac{2}{275}\sqrt{6893}e^2 \otimes e_5$	{123689, 12389, 135679, 13579, 345, 3456, 123689, 12389, 135679, 13579, 345, 3456}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{267}\sqrt{185}e^{12}, \frac{1}{267}\sqrt{8695}e^{17} - \frac{5}{267}\sqrt{407}e^{23},$ $\frac{5}{267}\sqrt{407}e^{13} + \frac{1}{267}\sqrt{8695}e^{27}$	$(-\frac{4}{89}, -\frac{4}{89}, -\frac{8}{89}, \frac{149}{267}, \frac{149}{267}, \frac{31}{267}, -\frac{8}{89}, -\frac{12}{89}, -\frac{12}{89})$ $+ \frac{2}{267}\sqrt{10915}e^4 \otimes e_8 + \frac{2}{267}\sqrt{10915}e^5 \otimes e_9$	{1234567, 123457, 13568, 1358, 36789, 3789, 1234567, 123457, 13568, 1358, 36789, 3789}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{267}\sqrt{185}e^{12}, \frac{1}{267}\sqrt{8695}e^{17} + \frac{5}{267}\sqrt{407}e^{23},$ $\frac{5}{267}\sqrt{407}e^{13} + \frac{1}{267}\sqrt{8695}e^{27}$	$(-\frac{4}{89}, -\frac{4}{89}, -\frac{8}{89}, \frac{149}{267}, \frac{149}{267}, \frac{31}{267}, -\frac{8}{89}, -\frac{12}{89}, -\frac{12}{89})$ $+ \frac{2}{267}\sqrt{10915}e^4 \otimes e_8 + \frac{2}{267}\sqrt{10915}e^5 \otimes e_9$	{1234567, 123457, 13568, 1358, 36789, 3789, 1234567, 123457, 13568, 1358, 36789, 3789}
932:4	$0, 0, 0, 0, 0, 0, \frac{10}{289}\sqrt{454}e^{12}, \frac{1}{289}\sqrt{47897}e^{17} - \frac{1}{289}\sqrt{30191}e^{23},$ $\frac{1}{289}\sqrt{25197}e^{13} + \frac{1}{289}\sqrt{7491}e^{27}$	$(\frac{28}{289}, \frac{28}{289}, \frac{56}{289}, -\frac{199}{289}, \frac{45}{289}, \frac{45}{289}, \frac{56}{289}, \frac{84}{289}, \frac{84}{289})$ $+ \frac{2}{289}\sqrt{27694}e^1 \otimes e_4$	{123568, 12358, 1238, 13567, 1357, 137, 23456789, 2345789, 234789, 34569, 3459, 349, 123568, 12358, 1238, 13567, 1357, 137, 23456789, 2345789, 234789, 34569, 3459, 349}
932:4	$0, 0, 0, 0, 0, 0, \frac{10}{289}\sqrt{454}e^{12}, \frac{1}{289}\sqrt{47897}e^{17} + \frac{1}{289}\sqrt{30191}e^{23},$ $\frac{1}{289}\sqrt{25197}e^{13} + \frac{1}{289}\sqrt{7491}e^{27}$	$(\frac{28}{289}, \frac{28}{289}, \frac{56}{289}, -\frac{199}{289}, \frac{45}{289}, \frac{45}{289}, \frac{56}{289}, \frac{84}{289}, \frac{84}{289})$ $+ \frac{2}{289}\sqrt{27694}e^1 \otimes e_4$	{123568, 12358, 1238, 13567, 1357, 137, 23456789, 2345789, 234789, 34569, 3459, 349, 123568, 12358, 1238, 13567, 1357, 137, 23456789, 2345789, 234789, 34569, 3459, 349}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{1}{15}\sqrt{5}e^{17} - \frac{1}{15}\sqrt{35}e^{23},$ $\frac{1}{15}\sqrt{35}e^{13} + \frac{1}{15}\sqrt{5}e^{27}$	$(0, 0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, 0, 0)$ $+ \frac{2}{15}\sqrt{10}e^4 \otimes e_8 + \frac{2}{15}\sqrt{10}e^5 \otimes e_9 + \frac{2}{15}\sqrt{15}e^3 \otimes e_6$	{126789, 1469, 4567, 126789, 1469, 4567}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{1}{15}\sqrt{5}e^{17} + \frac{1}{15}\sqrt{35}e^{23},$ $\frac{1}{15}\sqrt{35}e^{13} + \frac{1}{15}\sqrt{5}e^{27}$	$(0, 0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, 0, 0, 0)$ $+ \frac{2}{15}\sqrt{10}e^4 \otimes e_8 + \frac{2}{15}\sqrt{10}e^5 \otimes e_9 + \frac{2}{15}\sqrt{15}e^3 \otimes e_6$	{126789, 1469, 4567, 126789, 1469, 4567}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{163}\sqrt{454}e^{12}, \frac{2}{805}\sqrt{47897}e^{17} - \frac{2}{805}\sqrt{30191}e^{23},$ $\frac{2}{805}\sqrt{25197}e^{13} + \frac{2}{805}\sqrt{7491}e^{27}$	$(\frac{8}{115}, \frac{8}{115}, \frac{16}{115}, \frac{317}{805}, -\frac{398}{805}, -\frac{137}{805}, \frac{16}{115}, \frac{24}{115}, \frac{24}{115})$ $+ \frac{454}{805}e^4 \otimes e_6 + \frac{4}{805}\sqrt{27694}e^1 \otimes e_5$	{12348, 12368, 1347, 1367, 2345789, 2356789, 3459, 3569, 12348, 12368, 1347, 1367, 2345789, 2356789, 3459, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{162} \sqrt{454e^{12}}, \frac{2}{805} \sqrt{47897e^{17}} + \frac{2}{805} \sqrt{30191e^{23}},$ $\frac{2}{805} \sqrt{25197e^{13}} + \frac{2}{805} \sqrt{7491e^{27}}$	$(\frac{8}{115}, \frac{8}{115}, \frac{16}{115}, \frac{317}{805}, -\frac{398}{805}, -\frac{137}{805}, \frac{16}{115}, \frac{24}{115}, \frac{24}{115})$ $+ \frac{4}{805} e^4 \otimes e_6 + \frac{2}{805} \sqrt{27694e^1} \otimes e_5$	{12348, 12368, 1347, 1367, 2345789, 2356789, 3459, 3569, 12348, 12368, 1347, 1367, 2345789, 2356789, 3459, 3569}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{199} \sqrt{455e^{12}}, \frac{2}{199} \sqrt{1365e^{17}} - \frac{2}{199} \sqrt{3315e^{23}},$ $\frac{2}{199} \sqrt{3315e^{13}} + \frac{2}{199} \sqrt{1365e^{27}}$	$(\frac{16}{199}, \frac{16}{199}, \frac{32}{199}, \frac{83}{199}, -\frac{98}{199}, -\frac{47}{199}, \frac{32}{199}, \frac{48}{199}, \frac{48}{199})$ $+ \frac{130}{199} e^4 \otimes e_6 + \frac{4}{199} \sqrt{1885e^3} \otimes e_5$	{1245789, 1256789, 1459, 1569, 457, 567, 1245789, 1256789, 1459, 1569, 457, 567}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{199} \sqrt{455e^{12}}, \frac{2}{199} \sqrt{1365e^{17}} + \frac{2}{199} \sqrt{3315e^{23}},$ $\frac{2}{199} \sqrt{3315e^{13}} + \frac{2}{199} \sqrt{1365e^{27}}$	$(\frac{16}{199}, \frac{16}{199}, \frac{32}{199}, \frac{83}{199}, -\frac{98}{199}, -\frac{47}{199}, \frac{32}{199}, \frac{48}{199}, \frac{48}{199})$ $+ \frac{130}{199} e^4 \otimes e_6 + \frac{4}{199} \sqrt{1885e^3} \otimes e_5$	{1245789, 1256789, 1459, 1569, 457, 567, 1245789, 1256789, 1459, 1569, 457, 567}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{861} \sqrt{598e^{12}}, \frac{2}{287} \sqrt{5681e^{17}} - \frac{10}{861} \sqrt{2093e^{23}},$ $\frac{2}{861} \sqrt{18239e^{13}} + \frac{26}{861} \sqrt{115e^{27}}$	$(-\frac{4}{287}, -\frac{4}{287}, -\frac{8}{287}, \frac{389}{861}, \frac{562}{861}, -\frac{209}{861}, -\frac{8}{287}, -\frac{12}{287}, -\frac{12}{287})$ $+ \frac{4}{861} \sqrt{35282e^5} \otimes e_8 + \frac{598}{861} e^4 \otimes e_6$	{1234579, 1235679, 13489, 13689, 2345, 2356, 3478, 3678, 1234579, 1235679, 13489, 13689, 2345, 2356, 3478, 3678}
932:4	$0, 0, 0, 0, 0, 0, \frac{4}{861} \sqrt{598e^{12}}, \frac{2}{287} \sqrt{5681e^{17}} + \frac{10}{861} \sqrt{2093e^{23}},$ $\frac{2}{861} \sqrt{18239e^{13}} + \frac{26}{861} \sqrt{115e^{27}}$	$(-\frac{4}{287}, -\frac{4}{287}, -\frac{8}{287}, \frac{389}{861}, \frac{562}{861}, -\frac{209}{861}, -\frac{8}{287}, -\frac{12}{287}, -\frac{12}{287})$ $+ \frac{4}{861} \sqrt{35282e^5} \otimes e_8 + \frac{598}{861} e^4 \otimes e_6$	{1234579, 1235679, 13489, 13689, 2345, 2356, 3478, 3678, 1234579, 1235679, 13489, 13689, 2345, 2356, 3478, 3678}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{67} \sqrt{455e^{12}}, \frac{1}{67} \sqrt{1365e^{17}} - \frac{1}{67} \sqrt{3315e^{23}},$ $\frac{1}{67} \sqrt{3315e^{13}} + \frac{1}{67} \sqrt{1365e^{27}}$	$(\frac{8}{67}, \frac{8}{67}, \frac{16}{67}, -\frac{49}{67}, \frac{9}{67}, \frac{9}{67}, \frac{16}{67}, \frac{24}{67}, \frac{24}{67})$ $+ \frac{2}{67} \sqrt{1885e^3} \otimes e_4$	{12456789, 1245789, 124789, 14569, 1459, 149, 4567, 457, 47, 12456789, 1245789, 124789, 14569, 1459, 149, 4567, 457, 47}
932:4	$0, 0, 0, 0, 0, 0, \frac{2}{67} \sqrt{455e^{12}}, \frac{1}{67} \sqrt{1365e^{17}} + \frac{1}{67} \sqrt{3315e^{23}},$ $\frac{1}{67} \sqrt{3315e^{13}} + \frac{1}{67} \sqrt{1365e^{27}}$	$(\frac{8}{67}, \frac{8}{67}, \frac{16}{67}, -\frac{49}{67}, \frac{9}{67}, \frac{9}{67}, \frac{16}{67}, \frac{24}{67}, \frac{24}{67})$ $+ \frac{2}{67} \sqrt{1885e^3} \otimes e_4$	{12456789, 1245789, 124789, 14569, 1459, 149, 4567, 457, 47, 12456789, 1245789, 124789, 14569, 1459, 149, 4567, 457, 47}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{77} \sqrt{1358e^{12}}, \frac{1}{77} \sqrt{6402e^{13}} + \frac{2}{77} \sqrt{291e^{27}},$ $\frac{1}{77} \sqrt{582e^{17}} + \frac{2}{77} \sqrt{291e^{34}}$	$(-\frac{1}{7}, \frac{25}{77}, \frac{50}{77}, -\frac{47}{77}, \frac{12}{77}, \frac{12}{77}, \frac{2}{11}, \frac{39}{77}, \frac{3}{77})$ $+ \frac{1}{77} \sqrt{12610e^3} \otimes e_4$	{14568, 1458, 148, 4567, 457, 47}
932:5	$0, 0, 0, 0, 0, 0, \frac{10}{2449} \sqrt{14806e^{12}}, \frac{2}{2449} \sqrt{57205e^{13}} + \frac{2}{2449} \sqrt{426682e^{27}},$ $\frac{12}{2449} \sqrt{4711e^{17}} + \frac{26}{2449} \sqrt{2019e^{34}}$	$(\frac{87}{2449}, \frac{381}{2449}, \frac{762}{2449}, -\frac{207}{2449}, -\frac{965}{2449}, -\frac{584}{2449}, \frac{468}{2449}, \frac{849}{2449}, \frac{555}{2449})$ $+ \frac{2}{2449} \sqrt{851345e^2} \otimes e_5 + \frac{4}{2449} \sqrt{148733e^3} \otimes e_6$	{12348, 135789, 2347, 359}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{553} \sqrt{93898e^{12}}, \frac{1}{553} \sqrt{10590e^{13}} + \frac{12}{553} \sqrt{706e^{27}},$ $\frac{1}{553} \sqrt{23298e^{17}} + \frac{1}{553} \sqrt{27534e^{34}}$	$(-\frac{16}{553}, \frac{107}{553}, \frac{214}{553}, -\frac{139}{553}, -\frac{246}{553}, \frac{69}{553}, \frac{13}{553}, \frac{198}{553}, \frac{75}{553})$ $+ \frac{13}{553} \sqrt{706e^3} \otimes e_4 + \frac{3}{553} \sqrt{24710e^2} \otimes e_5$	{1356789, 135789, 3569, 359}
932:5	$0, 0, 0, 0, 0, 0, \frac{7}{325} \sqrt{62e^{12}}, \frac{1}{325} \sqrt{8246e^{13}} + \frac{2}{325} \sqrt{4991e^{27}},$ $\frac{4}{325} \sqrt{651e^{17}} + \frac{1}{325} \sqrt{20398e^{34}}$	$(-\frac{2}{65}, -\frac{1}{25}, -\frac{2}{25}, -\frac{7}{325}, \frac{181}{325}, \frac{184}{325}, -\frac{23}{325}, -\frac{36}{325}, -\frac{33}{325})$ $+ \frac{12}{325} \sqrt{434e^6} \otimes e_9 + \frac{584}{325} \sqrt{61194e^5} \otimes e_8$	{12489, 1678, 24579, 56}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{329} \sqrt{30623e^{12}}, \frac{1}{329} \sqrt{2710e^{13}} + \frac{5}{329} \sqrt{542e^{27}},$ $\frac{1}{658} \sqrt{50406e^{17}} + \frac{1}{658} \sqrt{271e^{34}}$	$(\frac{121}{1316}, \frac{1}{14}, \frac{1}{7}, \frac{37}{329}, -\frac{421}{1316}, -\frac{16}{47}, \frac{215}{1316}, \frac{309}{1316}, \frac{12}{47})$ $+ \frac{1}{658} \sqrt{154470e^1} \otimes e_5 + \frac{1}{658} \sqrt{161787e^2} \otimes e_6$	{12389, 134678, 23579, 3456}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{409} \sqrt{18497e^{12}}, \frac{1}{409} \sqrt{63518e^{13}} + \frac{1}{409} \sqrt{39786e^{27}},$ $\frac{12}{409} \sqrt{698e^{17}} + \frac{1}{409} \sqrt{39786e^{34}}$	$(\frac{68}{409}, \frac{15}{409}, \frac{30}{409}, \frac{121}{409}, -\frac{281}{409}, \frac{64}{409}, \frac{83}{409}, \frac{98}{409}, \frac{151}{409})$ $+ \frac{1}{409} \sqrt{240810e^1} \otimes e_5$	{123469, 12349, 1367, 137, 23456789, 2345789, 3568, 358}
932:5	$0, 0, 0, 0, 0, 0, \frac{43}{4357} \sqrt{1914e^{12}}, \frac{43}{4357} \sqrt{1166e^{13}} + \frac{86}{4357} \sqrt{429e^{27}},$ $\frac{129}{4357} \sqrt{66e^{17}} + \frac{946}{4357} \sqrt{3e^{34}}$	$(-\frac{215}{4357}, \frac{473}{4357}, \frac{946}{4357}, -\frac{903}{4357}, \frac{1892}{4357}, \frac{1376}{4357}, \frac{258}{4357}, \frac{731}{4357}, \frac{43}{4357})$ $+ \frac{172}{4357} \sqrt{229e^2} \otimes e_6 + \frac{43}{4357} \sqrt{1266e^3} \otimes e_4 + \frac{86}{4357} \sqrt{718e^5} \otimes e_9$	{12389, 2379}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{317} \sqrt{17018e^{12}}, \frac{2}{317} \sqrt{10795e^{13}} + \frac{4}{317} \sqrt{4445e^{27}},$ $\frac{6}{317} \sqrt{254e^{17}} + \frac{4}{317} \sqrt{1651e^{34}}$	$(\frac{22}{317}, \frac{43}{317}, \frac{86}{317}, \frac{1}{317}, -\frac{211}{317}, \frac{53}{317}, \frac{65}{317}, \frac{108}{317}, \frac{87}{317})$ $+ \frac{4}{317} \sqrt{8382e^2} \otimes e_5$	{123468, 12348, 1356789, 135789, 23467, 2347, 3569, 359}
932:5	$0, 0, 0, 0, 0, 0, \frac{4}{3905} \sqrt{4965e^{12}}, \frac{2}{3905} \sqrt{430962e^{13}} + \frac{2}{3905} \sqrt{149943e^{27}},$ $\frac{18}{3905} \sqrt{6289e^{17}} + \frac{8}{3905} \sqrt{82419e^{34}}$	$(\frac{43}{355}, \frac{243}{3905}, \frac{486}{3905}, \frac{703}{3905}, -\frac{300}{781}, -\frac{1283}{3905}, \frac{716}{3905}, \frac{959}{3905}, \frac{1189}{3905})$ $+ \frac{2}{3905} \sqrt{1645401e^4} \otimes e_6 + \frac{2}{3905} \sqrt{1860882e^3} \otimes e_5$	{123679, 134, 23689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:5	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{403}e^{12}, \frac{4}{71}\sqrt{93}e^{13} + \frac{1}{71}\sqrt{651}e^{27},$ $\frac{3}{71}\sqrt{93}e^{17} + \frac{1}{71}\sqrt{651}e^{34}$	$(-\frac{1}{142}, \frac{10}{71}, \frac{20}{71}, -\frac{11}{71}, -\frac{63}{142}, \frac{6}{71}, \frac{19}{142}, \frac{39}{142}, \frac{9}{71})$ $+\frac{1}{71}\sqrt{1705}e^3 \otimes e_4 + \frac{5}{71}\sqrt{93}e^1 \otimes e_5$	{1367, 137, 3568, 358}
932:5	$0, 0, 0, 0, 0, \frac{1}{415}\sqrt{1974}e^{12}, \frac{1}{83}\sqrt{1974}e^{13} + \frac{7}{415}\sqrt{1974}e^{27},$ $\frac{1}{415}\sqrt{66458}e^{17} + \frac{7}{415}\sqrt{1974}e^{34}$	$(\frac{19}{83}, -\frac{78}{415}, -\frac{156}{415}, \frac{268}{415}, \frac{66}{415}, \frac{66}{415}, \frac{17}{415}, -\frac{61}{415}, \frac{112}{415})$ $+\frac{1}{415}\sqrt{229642}e^4 \otimes e_8$	{134, 1345, 13456, 235689, 23589, 2389}
932:5	$0, 0, 0, 0, 0, \frac{1}{407}\sqrt{26123}e^{12}, \frac{1}{407}\sqrt{5882}e^{13} + \frac{1}{407}\sqrt{12802}e^{27},$ $\frac{1}{407}\sqrt{47229}e^{17} + \frac{1}{407}\sqrt{6055}e^{34}$	$(\frac{29}{814}, \frac{4}{407}, \frac{8}{407}, \frac{25}{407}, \frac{206}{407}, -\frac{317}{814}, \frac{1}{22}, \frac{45}{814}, \frac{3}{37})$ $+\frac{1}{407}\sqrt{56571}e^5 \otimes e_9 + \frac{1}{407}\sqrt{69546}e^1 \otimes e_6$	{1239, 13457, 236789, 34568}
932:5	$0, 0, 0, 0, 0, \frac{1}{102}\sqrt{2282}e^{12}, \frac{1}{102}\sqrt{163}e^{13} + \frac{1}{51}\sqrt{489}e^{27},$ $\frac{1}{102}\sqrt{978}e^{17} + \frac{1}{51}\sqrt{489}e^{34}$	$(\frac{11}{102}, \frac{5}{68}, \frac{5}{34}, \frac{29}{204}, 1, -\frac{61}{102}, \frac{37}{204}, \frac{13}{51}, \frac{59}{204})$ $+\frac{163}{102}e^5 \otimes e_6$	{123589, 123689, 134578, 134678, 23579, 23679, 345, 346}
932:5	$0, 0, 0, 0, 0, \frac{63}{1349}\sqrt{26}e^{12}, \frac{21}{1349}\sqrt{394}e^{13} + \frac{42}{1349}\sqrt{163}e^{27},$ $\frac{21}{1349}\sqrt{290}e^{17} + \frac{126}{1349}e^{34}$	$(-\frac{63}{1349}, \frac{105}{1349}, \frac{210}{1349}, -\frac{231}{1349}, \frac{588}{1349}, -\frac{336}{1349}, \frac{42}{1349}, \frac{147}{1349}, -\frac{21}{1349})$ $+\frac{21}{1349}\sqrt{638}e^3 \otimes e_4 + \frac{42}{1349}\sqrt{221}e^2 \otimes e_6 + \frac{42}{1349}\sqrt{241}e^5 \otimes e_8$	{146789, 4569}
932:5	$0, 0, 0, 0, 0, \frac{9}{898}\sqrt{114}e^{12}, \frac{9}{449}\sqrt{151}e^{13} + \frac{9}{449}\sqrt{130}e^{27},$ $\frac{9}{449}\sqrt{111}e^{17} + \frac{9}{449}\sqrt{286}e^{34}$	$(\frac{27}{449}, -\frac{18}{449}, -\frac{36}{449}, \frac{72}{449}, \frac{117}{449}, -\frac{117}{449}, \frac{9}{449}, -\frac{9}{449}, \frac{36}{449})$ $+\frac{243}{898}\sqrt{2}e^4 \otimes e_8 + \frac{9}{898}\sqrt{1198}e^3 \otimes e_6 + \frac{9}{898}\sqrt{674}e^5 \otimes e_9$	{1345, 2389}
932:5	$0, 0, 0, 0, 0, \frac{18}{3317}\sqrt{561}e^{12}, \frac{18}{3317}\sqrt{2233}e^{13} + \frac{36}{3317}\sqrt{77}e^{27},$ $\frac{18}{3317}\sqrt{2607}e^{17} + \frac{18}{3317}\sqrt{10549}e^{34}$	$(-\frac{135}{3317}, \frac{333}{3317}, \frac{666}{3317}, -\frac{603}{3317}, \frac{1845}{3317}, -\frac{36}{107}, \frac{198}{3317}, \frac{531}{3317}, \frac{63}{3317})$ $+\frac{144}{3317}\sqrt{253}e^3 \otimes e_6 + \frac{18}{3317}\sqrt{16379}e^5 \otimes e_9$	{1239, 13457, 23789, 3458}
932:5	$0, 0, 0, 0, 0, \frac{8}{4061}\sqrt{22793}e^{12}, \frac{2}{4061}\sqrt{678835}e^{13} + \frac{4}{4061}\sqrt{52523}e^{27},$ $\frac{12}{4061}\sqrt{12883}e^{17} + \frac{2}{4061}\sqrt{1413166}e^{34}$	$(\frac{268}{4061}, -\frac{161}{4061}, -\frac{322}{4061}, \frac{697}{4061}, \frac{2357}{4061}, -\frac{1285}{4061}, \frac{107}{4061}, -\frac{54}{4061}, \frac{375}{4061})$ $+\frac{2}{4061}\sqrt{1920558}e^5 \otimes e_9 + \frac{4}{4061}\sqrt{422166}e^4 \otimes e_6$	{123689, 134578, 23679, 345}
932:5	$0, 0, 0, 0, 0, \frac{215}{7301}\sqrt{10}e^{12}, \frac{43}{7301}\sqrt{5154}e^{13} + \frac{86}{7301}\sqrt{77}e^{27},$ $\frac{43}{7301}\sqrt{930}e^{17} + \frac{86}{7301}\sqrt{433}e^{34}$	$(-\frac{215}{7301}, \frac{473}{7301}, \frac{946}{7301}, -\frac{129}{1043}, \frac{2580}{7301}, \frac{2064}{7301}, \frac{258}{7301}, \frac{731}{7301}, \frac{43}{7301})$ $+\frac{172}{7301}\sqrt{267}e^5 \otimes e_8 + \frac{43}{7301}\sqrt{4426}e^3 \otimes e_4 + \frac{86}{7301}\sqrt{1254}e^1 \otimes e_6$	{1357, 368}
932:5	$0, 0, 0, 0, 0, \frac{11}{389}\sqrt{82}e^{12}, \frac{11}{389}\sqrt{138}e^{13} + \frac{22}{389}\sqrt{22}e^{27},$ $\frac{11}{389}\sqrt{186}e^{17} + \frac{22}{389}\sqrt{5}e^{34}$	$(-\frac{11}{389}, \frac{33}{389}, \frac{66}{389}, -\frac{55}{389}, \frac{132}{389}, -\frac{132}{389}, \frac{22}{389}, \frac{55}{389}, \frac{11}{389})$ $+\frac{11}{389}\sqrt{190}e^3 \otimes e_4 + \frac{198}{389}e^1 \otimes e_6 + \frac{22}{389}\sqrt{51}e^5 \otimes e_9$	{1357, 3568}
932:5	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{11}e^{12}, \frac{3}{43}\sqrt{46}e^{13} + \frac{6}{43}\sqrt{3}e^{27},$ $\frac{3}{43}e^{17} + \frac{3}{43}\sqrt{2}e^{34}$	$(-\frac{9}{86}, \frac{3}{43}, \frac{6}{43}, -\frac{12}{43}, \frac{39}{86}, \frac{12}{43}, -\frac{3}{86}, \frac{3}{86}, -\frac{6}{43})$ $+\frac{3}{43}\sqrt{35}e^6 \otimes e_9 + \frac{3}{43}\sqrt{59}e^3 \otimes e_4 + \frac{3}{43}\sqrt{65}e^5 \otimes e_8$	{123579, 2389}
932:5	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{241}e^{12}, \frac{1}{341}\sqrt{15906}e^{13} + \frac{2}{341}\sqrt{1687}e^{27},$ $\frac{2}{341}\sqrt{1446}e^{17} + \frac{1}{341}\sqrt{19762}e^{34}$	$(-\frac{4}{31}, \frac{51}{341}, \frac{102}{341}, -\frac{139}{341}, \frac{204}{341}, \frac{39}{341}, \frac{7}{341}, \frac{58}{341}, -\frac{37}{341})$ $+\frac{1}{341}\sqrt{66034}e^3 \otimes e_4 + \frac{1}{341}\sqrt{79530}e^5 \otimes e_9$	{12369, 1239, 236789, 23789}
932:5	$0, 0, 0, 0, 0, \frac{176}{2911}\sqrt{29}e^{12}, \frac{16}{2911}\sqrt{8855}e^{13} + \frac{16}{2911}\sqrt{3278}e^{27},$ $\frac{16}{2911}\sqrt{4290}e^{17} + \frac{16}{2911}\sqrt{935}e^{34}$	$(\frac{248}{2911}, \frac{280}{2911}, \frac{560}{2911}, \frac{216}{2911}, -\frac{1160}{2911}, -\frac{848}{2911}, \frac{528}{2911}, \frac{808}{2911}, \frac{776}{2911})$ $+\frac{16}{2911}\sqrt{12639}e^3 \otimes e_6 + \frac{16}{2911}\sqrt{16071}e^1 \otimes e_5$	{1239, 1347, 235789, 3458}
932:5	$0, 0, 0, 0, 0, \frac{176}{2911}\sqrt{29}e^{12}, \frac{16}{2911}\sqrt{8855}e^{13} + \frac{16}{2911}\sqrt{935}e^{27},$ $\frac{16}{2911}\sqrt{4290}e^{17} + \frac{16}{2911}\sqrt{3278}e^{34}$	$(\frac{248}{2911}, -\frac{103}{2911}, -\frac{206}{2911}, \frac{599}{2911}, \frac{1450}{2911}, -\frac{1160}{2911}, \frac{145}{2911}, \frac{42}{2911}, \frac{393}{2911})$ $+\frac{16}{2911}\sqrt{12639}e^5 \otimes e_8 + \frac{16}{2911}\sqrt{16071}e^1 \otimes e_6$	{1289, 1478, 25679, 456}
932:5	$0, 0, 0, 0, 0, \frac{420}{5821}\sqrt{14}e^{12}, \frac{35}{5821}\sqrt{926}e^{13} + \frac{35}{5821}\sqrt{3666}e^{27},$ $\frac{70}{5821}\sqrt{201}e^{17} + \frac{35}{5821}\sqrt{3102}e^{34}$	$(\frac{385}{5821}, -\frac{280}{5821}, -\frac{560}{5821}, \frac{1050}{5821}, \frac{1715}{5821}, -\frac{1505}{5821}, \frac{105}{5821}, -\frac{175}{5821}, \frac{490}{5821})$ $+\frac{35}{5821}\sqrt{2374}e^5 \otimes e_9 + \frac{35}{5821}\sqrt{4066}e^2 \otimes e_6 + \frac{35}{5821}\sqrt{4146}e^4 \otimes e_8$	{136789, 23457}
932:5	$0, 0, 0, 0, 0, \frac{10}{163}\sqrt{62}e^{12}, \frac{5}{163}\sqrt{122}e^{13} + \frac{5}{163}\sqrt{70}e^{27},$ $\frac{5}{163}\sqrt{246}e^{17} + \frac{10}{163}\sqrt{19}e^{34}$	$(\frac{125}{652}, -\frac{5}{326}, -\frac{5}{163}, \frac{65}{163}, -\frac{275}{652}, -\frac{35}{163}, \frac{115}{652}, \frac{105}{652}, \frac{60}{163})$ $+\frac{10}{163}\sqrt{177}e^1 \otimes e_5 + \frac{5}{163}\sqrt{438}e^4 \otimes e_6$	{12369, 1347, 2356789, 3458}
932:5	$0, 0, 0, 0, 0, \frac{8}{3997}\sqrt{7305}e^{12}, \frac{2}{3997}\sqrt{506967}e^{13} + \frac{4}{3997}\sqrt{90095}e^{27},$ $\frac{8}{3997}\sqrt{446579}e^{17} + \frac{2}{3997}\sqrt{628717}e^{34}$	$(\frac{437}{3997}, -\frac{179}{3997}, -\frac{358}{3997}, \frac{1053}{3997}, -\frac{1332}{3997}, \frac{321}{3997}, \frac{258}{3997}, \frac{79}{3997}, \frac{695}{3997})$ $+\frac{2}{3997}\sqrt{805011}e^3 \otimes e_5 + \frac{34}{3997}\sqrt{3409}e^4 \otimes e_8$	{134, 1346, 23689, 2389}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{1007}\sqrt{66410e^{12}}, \frac{2}{1007}\sqrt{56563e^{13}} + \frac{4}{1007}\sqrt{14885e^{27}},$ $\frac{6}{1007}\sqrt{2290e^{17}} + \frac{4}{1007}\sqrt{12595e^{34}}$	$(-\frac{14}{1007}, \frac{73}{1007}, \frac{146}{1007}, -\frac{101}{1007}, \frac{503}{1007}, -\frac{385}{1007}, \frac{59}{1007}, \frac{132}{1007}, \frac{45}{1007})$ $+ \frac{12}{1007}\sqrt{3206e^2} \otimes e_6 + \frac{16}{1007}\sqrt{1374e^5} \otimes e_9$	{12389, 1345678, 2379, 3456}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{1159}\sqrt{1974e^{12}}, \frac{10}{1159}\sqrt{1974e^{13}} + \frac{14}{1159}\sqrt{1974e^{27}},$ $\frac{2}{1159}\sqrt{66458e^{17}} + \frac{14}{1159}\sqrt{1974e^{34}}$	$(\frac{10}{61}, -\frac{156}{1159}, -\frac{312}{1159}, \frac{536}{1159}, \frac{461}{1159}, -\frac{197}{1159}, \frac{34}{1159}, -\frac{2}{19}, \frac{224}{1159})$ $+ \frac{2}{1159}\sqrt{229642e^4} \otimes e_8 + \frac{658}{1159}e^5 \otimes e_6$	{1345, 1346, 23589, 23689}
932:5	$0, 0, 0, 0, 0, 0, \frac{24}{739}\sqrt{70e^{12}}, \frac{28}{739}\sqrt{210e^{13}} + \frac{12}{739}\sqrt{434e^{27}},$ $\frac{8}{739}\sqrt{1281e^{17}} + \frac{12}{739}\sqrt{434e^{34}}$	$(\frac{2}{739}, \frac{32}{739}, \frac{64}{739}, -\frac{28}{739}, \frac{402}{739}, -\frac{272}{739}, \frac{34}{739}, \frac{66}{739}, \frac{36}{739})$ $+ \frac{4}{739}\sqrt{14154e^3} \otimes e_6 + \frac{4}{739}\sqrt{14154e^5} \otimes e_8$	{123579, 1345, 2389, 3478}
932:5	$0, 0, 0, 0, 0, 0, \frac{6}{3193}\sqrt{31990e^{12}}, \frac{2}{3193}\sqrt{64437e^{13}} + \frac{2}{3193}\sqrt{591358e^{27}},$ $\frac{4}{3193}\sqrt{62609e^{17}} + \frac{2}{3193}\sqrt{375197e^{34}}$	$(\frac{389}{3193}, -\frac{175}{3193}, -\frac{350}{3193}, \frac{953}{3193}, -\frac{1089}{3193}, \frac{330}{3193}, \frac{214}{3193}, \frac{39}{3193}, \frac{603}{3193})$ $+ \frac{2}{3193}\sqrt{648483e^2} \otimes e_5 + \frac{76}{3193}\sqrt{457e^4} \otimes e_8$	{1356789, 135789, 23467, 2347}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{9570e^{12}}, \frac{2}{381}\sqrt{7395e^{13}} + \frac{4}{127}\sqrt{290e^{27}},$ $\frac{2}{127}\sqrt{290e^{17}} + \frac{14}{381}\sqrt{174e^{34}}$	$(\frac{16}{127}, \frac{5}{127}, \frac{10}{127}, \frac{27}{127}, -\frac{53}{127}, -\frac{31}{127}, \frac{21}{127}, \frac{26}{127}, \frac{37}{127})$ $+ \frac{2}{381}\sqrt{17574e^2} \otimes e_5 + \frac{4}{381}\sqrt{2958e^4} \otimes e_6$	{12348, 1356789, 2347, 3569}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090e^{12}}, \frac{1}{1211}\sqrt{962870e^{13}} + \frac{1}{1211}\sqrt{2638e^{27}},$ $\frac{4}{1211}\sqrt{27699e^{17}} + \frac{26}{1211}\sqrt{1319e^{34}}$	$(\frac{58}{1211}, \frac{254}{1211}, \frac{508}{1211}, -\frac{138}{1211}, \frac{811}{1211}, \frac{200}{1211}, \frac{312}{1211}, \frac{566}{1211}, \frac{370}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^3} \otimes e_5$	{123679, 12379, 134, 1346, 23689, 2389, 34678, 3478}
932:5	$0, 0, 0, 0, 0, 0, \frac{58}{2965}\sqrt{69e^{12}}, \frac{2}{593}\sqrt{2001e^{13}} + \frac{12}{2965}\sqrt{11339e^{27}},$ $\frac{2}{2965}\sqrt{47357e^{17}} + \frac{2}{2965}\sqrt{658329e^{34}}$	$(\frac{49}{593}, -\frac{363}{2965}, -\frac{726}{2965}, \frac{853}{2965}, \frac{1461}{2965}, \frac{336}{2965}, -\frac{118}{2965}, -\frac{481}{2965}, \frac{127}{2965})$ $+ \frac{6}{593}\sqrt{3335e^5} \otimes e_9 + \frac{8}{2965}\sqrt{62698e^4} \otimes e_8$	{12568, 1258, 469, 49}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{5954e^{12}}, \frac{8}{479}\sqrt{1374e^{13}} + \frac{2}{479}\sqrt{5038e^{27}},$ $\frac{1}{479}\sqrt{25419e^{17}} + \frac{1}{479}\sqrt{15343e^{34}}$	$(-\frac{97}{958}, \frac{44}{479}, \frac{88}{479}, -\frac{141}{479}, \frac{537}{958}, \frac{36}{479}, -\frac{9}{958}, \frac{79}{958}, -\frac{53}{479})$ $+ \frac{1}{479}\sqrt{106485e^5} \otimes e_8 + \frac{1}{479}\sqrt{96409e^3} \otimes e_4$	{135, 1356, 3678, 378}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090e^{12}}, \frac{1}{1211}\sqrt{962870e^{13}} + \frac{26}{1211}\sqrt{1319e^{27}},$ $\frac{4}{1211}\sqrt{27699e^{17}} + \frac{1}{1211}\sqrt{2638e^{34}}$	$(\frac{58}{1211}, -\frac{83}{1211}, -\frac{166}{1211}, \frac{199}{1211}, \frac{1}{1211}, \frac{200}{1211}, -\frac{25}{1211}, -\frac{108}{1211}, \frac{33}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^5} \otimes e_8$	{1235679, 123579, 1345, 13456, 23689, 2389, 34678, 3478}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577e^{12}}, \frac{2}{157}\sqrt{2407e^{13}} + \frac{4}{157}\sqrt{83e^{27}},$ $\frac{6}{157}\sqrt{415e^{17}} + \frac{2}{157}\sqrt{3901e^{34}}$	$(-\frac{7}{157}, \frac{5}{157}, \frac{10}{157}, -\frac{19}{157}, \frac{28}{157}, \frac{1}{157}, -\frac{2}{157}, \frac{3}{157}, -\frac{9}{157})$ $+ \frac{2}{157}\sqrt{10707e^5} \otimes e_9$	{123689, 12389, 1345678, 134578, 23679, 2379, 345, 3456}
932:5	$0, 0, 0, 0, 0, 0, \frac{2}{251}\sqrt{1358e^{12}}, \frac{2}{251}\sqrt{6402e^{13}} + \frac{4}{251}\sqrt{291e^{27}},$ $\frac{2}{251}\sqrt{582e^{17}} + \frac{4}{251}\sqrt{291e^{34}}$	$(-\frac{22}{251}, \frac{50}{251}, \frac{100}{251}, -\frac{94}{251}, \frac{121}{251}, -\frac{73}{251}, \frac{28}{251}, \frac{78}{251}, \frac{6}{251})$ $+ \frac{194}{251}e^5 \otimes e_6 + \frac{2}{251}\sqrt{12610e^3} \otimes e_4$	{1458, 1468, 457, 467}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{794}\sqrt{111890e^{12}}, \frac{2}{397}\sqrt{670e^{13}} + \frac{1}{794}\sqrt{200330e^{27}},$ $\frac{1}{794}\sqrt{58290e^{17}} + \frac{25}{794}\sqrt{67e^{34}}$	$(\frac{41}{1588}, \frac{19}{794}, \frac{19}{397}, \frac{11}{397}, \frac{787}{1588}, -\frac{158}{397}, \frac{79}{1588}, \frac{117}{1588}, \frac{30}{397})$ $+ \frac{1}{794}\sqrt{207030e^5} \otimes e_8 + \frac{3}{794}\sqrt{29815e^2} \otimes e_6$	{12348, 136789, 23457, 3569}
932:5	$0, 0, 0, 0, 0, 0, \frac{1}{355}\sqrt{13494e^{12}}, \frac{1}{71}\sqrt{1038e^{13}} + \frac{1}{355}\sqrt{13494e^{27}},$ $\frac{1}{355}\sqrt{4498e^{17}} + \frac{1}{355}\sqrt{13494e^{34}}$	$(\frac{13}{71}, -\frac{36}{355}, -\frac{72}{355}, \frac{166}{355}, -\frac{108}{355}, \frac{42}{355}, \frac{29}{355}, -\frac{7}{355}, \frac{94}{355})$ $+ \frac{1}{355}\sqrt{56398e^4} \otimes e_8 + \frac{2}{71}\sqrt{519e^1} \otimes e_5$	{1678, 178, 245679, 24579}
932:5	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383e^{12}}, \frac{1}{311}\sqrt{29491e^{13}} + \frac{1}{311}\sqrt{30257e^{27}},$ $\frac{3}{311}\sqrt{1915e^{17}} + \frac{2}{311}\sqrt{23746e^{34}}$	$(\frac{173}{622}, -\frac{14}{311}, -\frac{28}{311}, \frac{187}{311}, -\frac{196}{311}, \frac{115}{622}, \frac{145}{622}, \frac{117}{622}, \frac{159}{311})$ $+ \frac{13}{311}\sqrt{1149e^4} \otimes e_5$	{123468, 12348, 1356789, 135789, 23467, 2347, 3569, 359}
932:5	$0, 0, 0, 0, 0, 0, \frac{74}{4565}\sqrt{246e^{12}}, \frac{37}{913}\sqrt{30e^{13}} + \frac{37}{4565}\sqrt{534e^{27}},$ $\frac{74}{4565}\sqrt{307e^{17}} + \frac{37}{4565}\sqrt{1434e^{34}}$	$(\frac{74}{913}, -\frac{333}{4565}, -\frac{666}{4565}, \frac{1073}{4565}, \frac{1776}{4565}, -\frac{999}{4565}, \frac{37}{4565}, -\frac{296}{4565}, \frac{37}{415})$ $+ \frac{222}{913}\sqrt{3e^5} \otimes e_9 + \frac{37}{913}\sqrt{114e^1} \otimes e_6 + \frac{74}{4565}\sqrt{682e^4} \otimes e_8$	{1578, 24679}
932:6	$0, 0, 0, 0, 0, 0, \frac{23}{2401}\sqrt{123e^{12}}, \frac{92}{2401}\sqrt{22e^{17}} + \frac{92}{2401}\sqrt{111e^{34}},$ $\frac{23}{2401}\sqrt{890e^{27}} + \frac{23}{2401}\sqrt{174e^{35}}$	$(\frac{299}{2401}, -\frac{46}{343}, \frac{92}{2401}, \frac{184}{2401}, -\frac{437}{2401}, \frac{115}{343}, -\frac{23}{2401}, \frac{276}{2401}, -\frac{345}{2401})$ $+ \frac{115}{2401}\sqrt{71e^4} \otimes e_9 + \frac{23}{2401}\sqrt{1241e^6} \otimes e_8 + \frac{23}{2401}\sqrt{1417e^3} \otimes e_5$	{23467, 458}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{1297}\sqrt{4505e^{12}}, \frac{8}{1297}\sqrt{2091e^{17}} + \frac{8}{1297}\sqrt{493e^{34}},$ $\frac{12}{1297}\sqrt{119e^{27}} + \frac{8}{1297}\sqrt{2091e^{35}}$	$(\frac{38}{1297}, -\frac{68}{1297}, -\frac{242}{1297}, \frac{250}{1297}, \frac{144}{1297}, \frac{134}{1297}, -\frac{30}{1297}, \frac{8}{1297}, -\frac{98}{1297})$ $+ \frac{4}{1297}\sqrt{11237e^1} \otimes e_9 + \frac{4}{1297}\sqrt{8534e^5} \otimes e_8$	{1268, 128, 13567, 1357, 2346789, 234789, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{1297}\sqrt{4505e^{12}}, \frac{8}{1297}\sqrt{2091e^{17}} + \frac{8}{1297}\sqrt{493e^{34}},$ $\frac{12}{1297}\sqrt{119e^{27}} + \frac{8}{1297}\sqrt{2091e^{35}}$	$(\frac{38}{1297}, -\frac{68}{1297}, -\frac{242}{1297}, \frac{250}{1297}, \frac{144}{1297}, \frac{134}{1297}, -\frac{30}{1297}, \frac{8}{1297}, -\frac{98}{1297})$ $-\frac{4}{1297}\sqrt{11237e^1} \otimes e_9 + \frac{4}{1297}\sqrt{8534e^5} \otimes e_8$	{1268, 128, 13567, 1357, 2346789, 234789, 4569, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{4329}\sqrt{165418e^{12}}, \frac{2}{4329}\sqrt{232265e^{17}} + \frac{2}{1443}\sqrt{53251e^{34}},$ $\frac{4}{4329}\sqrt{278718e^{27}} + \frac{2}{4329}\sqrt{1701766e^{35}}$	$(\frac{29}{1443}, \frac{46}{4329}, \frac{1243}{4329}, -\frac{341}{1443}, -\frac{1064}{4329}, \frac{815}{1443}, \frac{133}{4329}, \frac{220}{4329}, \frac{179}{4329})$ $+\frac{2}{1443}\sqrt{252659e^6} \otimes e_9 + \frac{4}{4329}\sqrt{533643e^3} \otimes e_4$	{1379, 14579, 356, 46}
932:6	$0, 0, 0, 0, 0, 0, \frac{82}{5029}\sqrt{226e^{12}}, \frac{82}{5029}\sqrt{482e^{17}} + \frac{82}{5029}\sqrt{17e^{34}},$ $\frac{41}{5029}\sqrt{734e^{27}} + \frac{41}{5029}\sqrt{2986e^{35}}$	$(-\frac{943}{5029}, \frac{1271}{5029}, \frac{533}{5029}, -\frac{1148}{5029}, \frac{1066}{5029}, -\frac{410}{5029}, \frac{328}{5029}, -\frac{615}{5029}, \frac{1599}{5029})$ $+\frac{41}{5029}\sqrt{1766e^2} \otimes e_6 + \frac{82}{5029}\sqrt{1043e^5} \otimes e_8 + \frac{943}{5029}\sqrt{6e^3} \otimes e_4$	{1248, 23789}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{293}\sqrt{30e^{12}}, \frac{8}{293}\sqrt{11e^{17}} + \frac{4}{293}\sqrt{282e^{34}},$ $\frac{8}{293}\sqrt{11e^{27}} + \frac{4}{293}\sqrt{282e^{35}}$	$(\frac{4}{293}, \frac{4}{293}, -\frac{32}{293}, \frac{44}{293}, \frac{44}{293}, -\frac{64}{293}, \frac{8}{293}, \frac{12}{293}, \frac{12}{293})$ $+\frac{16}{293}\sqrt{23e^4} \otimes e_9 - \frac{16}{293}\sqrt{23e^5} \otimes e_8 + \frac{4}{293}\sqrt{346e^3} \otimes e_6$	{12389, 15679, 345}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{293}\sqrt{30e^{12}}, \frac{8}{293}\sqrt{11e^{17}} + \frac{4}{293}\sqrt{282e^{34}},$ $\frac{8}{293}\sqrt{11e^{27}} + \frac{4}{293}\sqrt{282e^{35}}$	$(\frac{4}{293}, \frac{4}{293}, -\frac{32}{293}, \frac{44}{293}, \frac{44}{293}, -\frac{64}{293}, \frac{8}{293}, \frac{12}{293}, \frac{12}{293})$ $+\frac{16}{293}\sqrt{23e^4} \otimes e_9 + \frac{16}{293}\sqrt{23e^5} \otimes e_8 + \frac{4}{293}\sqrt{346e^3} \otimes e_6$	{12389, 15679, 345}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{3969}\sqrt{405697e^{12}}, \frac{2}{3969}\sqrt{923487e^{17}} + \frac{2}{3969}\sqrt{82505e^{34}},$ $\frac{2}{3969}\sqrt{429595e^{27}} + \frac{4}{1323}\sqrt{16501e^{35}}$	$(-\frac{197}{3969}, \frac{148}{1323}, -\frac{71}{567}, \frac{547}{3969}, \frac{44}{147}, -\frac{445}{1323}, \frac{247}{3969}, \frac{50}{3969}, \frac{691}{3969})$ $+\frac{2}{1323}\sqrt{109817e^1} \otimes e_6 + \frac{2}{3969}\sqrt{1041270e^5} \otimes e_8$	{128, 1357, 2346789, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{1}{36}\sqrt{34e^{12}}, \frac{1}{18}\sqrt{51e^{17}} + \frac{1}{9}\sqrt{34e^{34}},$ $\frac{1}{36}\sqrt{170e^{27}} + \frac{1}{18}\sqrt{51e^{35}}$	$(\frac{2}{9}, -\frac{1}{12}, \frac{19}{72}, \frac{7}{72}, -\frac{5}{24}, -\frac{3}{8}, \frac{5}{36}, \frac{13}{36}, \frac{1}{18})$ $+\frac{1}{36}\sqrt{561e^3} \otimes e_5 + \frac{1}{36}\sqrt{561e^4} \otimes e_6$	{2347, 2567, 368, 458}
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{57}\sqrt{7e^{12}}, \frac{8}{57}\sqrt{2e^{17}} + \frac{8}{57}\sqrt{29e^{34}},$ $\frac{8}{57}\sqrt{2e^{27}} + \frac{8}{57}\sqrt{29e^{35}}$	$(\frac{8}{57}, \frac{8}{57}, \frac{28}{57}, -\frac{4}{57}, -\frac{4}{57}, -\frac{12}{19}, \frac{16}{57}, \frac{8}{19}, \frac{8}{19})$ $+\frac{8}{57}\sqrt{93e^3} \otimes e_6$	{12345, 126, 13578, 14678, 389, 45689}
932:6	$0, 0, 0, 0, 0, 0, \frac{1}{447}\sqrt{10255e^{12}}, \frac{1}{447}\sqrt{53033e^{17}} + \frac{1}{447}\sqrt{16115e^{34}},$ $\frac{1}{447}\sqrt{24026e^{27}} + \frac{1}{447}\sqrt{49810e^{35}}$	$(-\frac{37}{298}, \frac{76}{447}, \frac{43}{149}, -\frac{164}{447}, -\frac{65}{894}, \frac{86}{149}, \frac{41}{894}, -\frac{35}{447}, \frac{193}{894})$ $+\frac{1}{149}\sqrt{12306e^3} \otimes e_4 + \frac{1}{447}\sqrt{120423e^6} \otimes e_8$	{12358, 1248, 23789, 245789}
932:6	$0, 0, 0, 0, 0, 0, \frac{38}{461}\sqrt{6e^{12}}, \frac{38}{2305}\sqrt{395e^{17}} + \frac{342}{2305}e^{34},$ $\frac{19}{2305}\sqrt{897e^{27}} + \frac{38}{2305}\sqrt{365e^{35}}$	$(-\frac{38}{461}, \frac{323}{2305}, \frac{152}{2305}, -\frac{209}{2305}, \frac{304}{2305}, -\frac{551}{2305}, \frac{133}{2305}, -\frac{57}{2305}, \frac{456}{2305})$ $+\frac{19}{2305}\sqrt{1091e^3} \otimes e_4 + \frac{19}{2305}\sqrt{1451e^1} \otimes e_6 + \frac{57}{2305}\sqrt{191e^5} \otimes e_8$	{1357, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22e^{12}}, \frac{17}{1369}\sqrt{670e^{17}} + \frac{17}{1369}\sqrt{217e^{34}},$ $\frac{17}{1369}\sqrt{130e^{27}} + \frac{17}{1369}\sqrt{617e^{35}}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, -\frac{272}{1369}, \frac{34}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $-\frac{17}{1369}\sqrt{1041e^5} \otimes e_8 + \frac{17}{1369}\sqrt{641e^4} \otimes e_9 + \frac{340}{1369}\sqrt{2e^1} \otimes e_6$	{1248, 13457, 236789, 569}
932:6	$0, 0, 0, 0, 0, 0, \frac{68}{1369}\sqrt{22e^{12}}, \frac{17}{1369}\sqrt{670e^{17}} + \frac{17}{1369}\sqrt{217e^{34}},$ $\frac{17}{1369}\sqrt{130e^{27}} + \frac{17}{1369}\sqrt{617e^{35}}$	$(\frac{17}{1369}, \frac{17}{1369}, -\frac{289}{1369}, \frac{340}{1369}, \frac{340}{1369}, -\frac{272}{1369}, \frac{34}{1369}, \frac{51}{1369}, \frac{51}{1369})$ $+\frac{17}{1369}\sqrt{1041e^5} \otimes e_8 + \frac{17}{1369}\sqrt{641e^4} \otimes e_9 + \frac{340}{1369}\sqrt{2e^1} \otimes e_6$	{1248, 13457, 236789, 569}
932:6	$0, 0, 0, 0, 0, 0, \frac{70}{2529}\sqrt{34e^{12}}, \frac{224}{2529}\sqrt{5e^{17}} + \frac{56}{843}\sqrt{7e^{34}},$ $\frac{14}{2529}\sqrt{282e^{27}} + \frac{644}{2529}e^{35}$	$(\frac{70}{843}, -\frac{98}{2529}, \frac{259}{2529}, \frac{7}{281}, -\frac{245}{2529}, -\frac{49}{281}, \frac{112}{2529}, \frac{322}{2529}, \frac{14}{2529})$ $+\frac{14}{2529}\sqrt{1254e^3} \otimes e_4 + \frac{14}{2529}\sqrt{1254e^5} \otimes e_6 - \frac{154}{843}\sqrt{2e^1} \otimes e_9$	{1357, 1467, 369, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{70}{2529}\sqrt{34e^{12}}, \frac{224}{2529}\sqrt{5e^{17}} + \frac{56}{843}\sqrt{7e^{34}},$ $\frac{14}{2529}\sqrt{282e^{27}} + \frac{644}{2529}e^{35}$	$(\frac{70}{843}, -\frac{98}{2529}, \frac{259}{2529}, \frac{7}{281}, -\frac{245}{2529}, -\frac{49}{281}, \frac{112}{2529}, \frac{322}{2529}, \frac{14}{2529})$ $+\frac{14}{2529}\sqrt{1254e^3} \otimes e_4 + \frac{14}{2529}\sqrt{1254e^5} \otimes e_6 + \frac{154}{843}\sqrt{2e^1} \otimes e_9$	{1357, 1467, 369, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{232}{3951}\sqrt{31e^{12}}, \frac{8}{3951}\sqrt{33698e^{17}} + \frac{8}{1317}\sqrt{2494e^{34}},$ $\frac{8}{3951}\sqrt{435e^{27}} + \frac{16}{3951}\sqrt{11455e^{35}}$	$(\frac{212}{1317}, -\frac{464}{3951}, \frac{868}{3951}, -\frac{20}{1317}, \frac{1160}{3951}, \frac{140}{1317}, \frac{172}{3951}, \frac{808}{3951}, -\frac{292}{3951})$ $+\frac{8}{1317}\sqrt{7337e^1} \otimes e_9 + \frac{8}{3951}\sqrt{36366e^3} \otimes e_4$	{13567, 1357, 1467, 147, 369, 39, 4569, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{232}{3951}\sqrt{31e^{12}}, \frac{8}{3951}\sqrt{33698e^{17}} + \frac{8}{1317}\sqrt{2494e^{34}},$ $\frac{8}{3951}\sqrt{435e^{27}} + \frac{16}{3951}\sqrt{11455e^{35}}$	$(\frac{212}{1317}, -\frac{464}{3951}, \frac{868}{3951}, -\frac{20}{1317}, \frac{1160}{3951}, \frac{140}{1317}, \frac{172}{3951}, \frac{808}{3951}, -\frac{292}{3951})$ $-\frac{8}{1317}\sqrt{7337e^1} \otimes e_9 + \frac{8}{3951}\sqrt{36366e^3} \otimes e_4$	{13567, 1357, 1467, 147, 369, 39, 4569, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{4655}\sqrt{755e^{12}}, \frac{8}{4655}\sqrt{1538e^{17}} + \frac{8}{4655}\sqrt{526e^{34}},$ $\frac{8}{931}\sqrt{15e^{27}} + \frac{16}{4655}\sqrt{463e^{35}}$	$(-\frac{4}{665}, -\frac{16}{4655}, -\frac{4}{931}, -\frac{52}{4655}, -\frac{8}{931}, \frac{52}{665}, -\frac{44}{4655}, -\frac{72}{4655}, -\frac{12}{931})$ $+\frac{16}{4655}\sqrt{362e^5} \otimes e_8 + \frac{8}{4655}\sqrt{1901e^1} \otimes e_9 + \frac{8}{4655}\sqrt{942e^3} \otimes e_4$	{13567, 1357, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{4655}\sqrt{755}e^{12}, \frac{8}{4655}\sqrt{1538}e^{17} + \frac{8}{4655}\sqrt{526}e^{34},$ $\frac{8}{931}\sqrt{15}e^{27} + \frac{16}{4655}\sqrt{463}e^{35}$	$(-\frac{4}{665}, -\frac{16}{4655}, -\frac{4}{931}, -\frac{52}{4655}, -\frac{8}{931}, \frac{52}{665}, -\frac{44}{4655}, -\frac{72}{4655}, -\frac{12}{931})$ $+\frac{16}{4655}\sqrt{362}e^5 \otimes e_8 - \frac{8}{4655}\sqrt{1901}e^1 \otimes e_9 + \frac{8}{4655}\sqrt{942}e^3 \otimes e_4$	{13567, 1357, 4569, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{9}{923}\sqrt{710}e^{12}, \frac{63}{923}\sqrt{22}e^{17} + \frac{9}{923}\sqrt{410}e^{34},$ $\frac{54}{923}e^{27} + \frac{18}{923}\sqrt{290}e^{35}$	$(\frac{171}{1846}, -\frac{81}{923}, \frac{126}{923}, -\frac{36}{923}, -\frac{405}{1846}, \frac{252}{923}, \frac{9}{1846}, \frac{90}{923}, -\frac{153}{1846})$ $+\frac{18}{923}\sqrt{226}e^3 \otimes e_4 + \frac{18}{923}\sqrt{445}e^1 \otimes e_9 + \frac{9}{923}\sqrt{658}e^6 \otimes e_8$	{13567, 1467, 369, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{9}{923}\sqrt{710}e^{12}, \frac{63}{923}\sqrt{22}e^{17} + \frac{9}{923}\sqrt{410}e^{34},$ $\frac{54}{923}e^{27} + \frac{18}{923}\sqrt{290}e^{35}$	$(\frac{171}{1846}, -\frac{81}{923}, \frac{126}{923}, -\frac{36}{923}, -\frac{405}{1846}, \frac{252}{923}, \frac{9}{1846}, \frac{90}{923}, -\frac{153}{1846})$ $+\frac{18}{923}\sqrt{226}e^3 \otimes e_4 - \frac{18}{923}\sqrt{445}e^1 \otimes e_9 + \frac{9}{923}\sqrt{658}e^6 \otimes e_8$	{13567, 1467, 369, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{585}\sqrt{3223}e^{12}, \frac{1}{585}\sqrt{54498}e^{17} + \frac{1}{585}\sqrt{77938}e^{34},$ $\frac{4}{585}\sqrt{1465}e^{27} + \frac{1}{585}\sqrt{54498}e^{35}$	$(-\frac{49}{585}, \frac{28}{195}, -\frac{32}{117}, \frac{146}{585}, \frac{31}{65}, -\frac{49}{195}, \frac{7}{117}, -\frac{14}{585}, \frac{119}{585})$ $+\frac{1}{585}\sqrt{124818}e^4 \otimes e_6 + \frac{2}{195}\sqrt{4981}e^5 \otimes e_8$	{1248, 13457, 236789, 569}
932:6	$0, 0, 0, 0, 0, 0, \frac{1}{57}\sqrt{1957}e^{12}, \frac{2}{57}\sqrt{618}e^{17} + \frac{1}{114}\sqrt{3090}e^{34},$ $\frac{1}{114}\sqrt{3090}e^{27} + \frac{1}{114}\sqrt{3399}e^{35}$	$(\frac{14}{57}, -\frac{7}{228}, \frac{3}{19}, \frac{23}{76}, \frac{1}{38}, -\frac{25}{38}, \frac{49}{228}, \frac{35}{76}, \frac{7}{38})$ $+\frac{1}{38}\sqrt{2163}e^1 \otimes e_6$	{123458, 128, 1357, 147, 2346789, 256789, 369, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{7033}e^{12}, \frac{1}{441}\sqrt{61674}e^{17} + \frac{1}{441}\sqrt{200170}e^{34},$ $\frac{8}{441}\sqrt{1082}e^{27} + \frac{1}{441}\sqrt{61674}e^{35}$	$(\frac{109}{441}, -\frac{4}{147}, -\frac{50}{441}, \frac{256}{441}, \frac{15}{49}, -\frac{95}{147}, \frac{97}{441}, \frac{206}{441}, \frac{85}{441})$ $+\frac{1}{441}\sqrt{3246}e^4 \otimes e_6$	{123459, 1269, 1356789, 14789, 2347, 2567, 368, 458}
932:6	$0, 0, 0, 0, 0, 0, \frac{1}{369}\sqrt{36577}e^{12}, \frac{2}{123}\sqrt{926}e^{17} + \frac{1}{738}\sqrt{60190}e^{34},$ $\frac{1}{738}\sqrt{21298}e^{27} + \frac{1}{738}\sqrt{15279}e^{35}$	$(\frac{86}{369}, -\frac{29}{492}, \frac{137}{369}, \frac{53}{1476}, -\frac{21}{82}, -\frac{97}{246}, \frac{257}{1476}, \frac{601}{1476}, \frac{85}{738})$ $+\frac{1}{246}\sqrt{39355}e^1 \otimes e_6 + \frac{2}{369}\sqrt{15279}e^3 \otimes e_5$	{236789, 2456789, 3469, 569}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{3657}\sqrt{28735}e^{12}, \frac{8}{3657}\sqrt{1642}e^{17} + \frac{4}{3657}\sqrt{244658}e^{34},$ $\frac{10}{3657}\sqrt{23809}e^{27} + \frac{2}{3657}\sqrt{92773}e^{35}$	$(\frac{104}{1219}, -\frac{445}{3657}, -\frac{295}{1219}, \frac{1064}{3657}, \frac{307}{3657}, \frac{607}{1219}, -\frac{133}{3657}, \frac{179}{3657}, -\frac{578}{3657})$ $+\frac{2}{3657}\sqrt{1150221}e^6 \otimes e_8 + \frac{4}{1219}\sqrt{41871}e^4 \otimes e_9$	{12569, 13789, 234567, 48}
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{57}\sqrt{7}e^{12}, \frac{8}{57}\sqrt{29}e^{17} + \frac{8}{57}\sqrt{29}e^{34},$ $\frac{8}{57}\sqrt{2}e^{27} + \frac{8}{57}\sqrt{2}e^{35}$	$(-\frac{5}{38}, \frac{8}{57}, -\frac{1}{19}, -\frac{4}{57}, \frac{23}{114}, 1, \frac{1}{114}, -\frac{7}{57}, \frac{17}{114})$ $+\frac{8}{57}\sqrt{93}e^6 \otimes e_8$	{1238, 12458, 13467, 1567, 235789, 24789, 34569, 69}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{429}\sqrt{298}e^{12}, \frac{1}{429}\sqrt{10430}e^{17} + \frac{1}{429}\sqrt{29353}e^{34},$ $\frac{1}{429}\sqrt{10430}e^{27} + \frac{1}{429}\sqrt{29353}e^{35}$	$(-\frac{1}{143}, -\frac{1}{143}, -\frac{149}{429}, \frac{140}{429}, \frac{140}{429}, \frac{16}{143}, -\frac{2}{143}, -\frac{3}{143}, -\frac{3}{143})$ $+\frac{1}{429}\sqrt{56769}e^4 \otimes e_9 + \frac{2}{429}\sqrt{56769}e^5 \otimes e_8$	{123689, 12389, 15679, 1579, 345, 3456}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{429}\sqrt{298}e^{12}, \frac{1}{429}\sqrt{10430}e^{17} + \frac{1}{429}\sqrt{29353}e^{34},$ $\frac{1}{429}\sqrt{10430}e^{27} + \frac{1}{429}\sqrt{29353}e^{35}$	$(-\frac{1}{143}, -\frac{1}{143}, -\frac{149}{429}, \frac{140}{429}, \frac{140}{429}, \frac{16}{143}, -\frac{2}{143}, -\frac{3}{143}, -\frac{3}{143})$ $+\frac{1}{429}\sqrt{56769}e^4 \otimes e_9 - \frac{1}{429}\sqrt{56769}e^5 \otimes e_8$	{123689, 12389, 15679, 1579, 345, 3456}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{1243}\sqrt{79305}e^{12}, \frac{2}{1243}\sqrt{119735}e^{17} + \frac{2}{1243}\sqrt{60645}e^{34},$ $\frac{2}{1243}\sqrt{60645}e^{27} + \frac{2}{1243}\sqrt{103874}e^{35}$	$(\frac{125}{1243}, \frac{74}{1243}, \frac{43}{113}, -\frac{149}{1243}, -\frac{200}{1243}, -\frac{497}{1243}, \frac{199}{1243}, \frac{324}{1243}, \frac{273}{1243})$ $+\frac{2}{1243}\sqrt{148658}e^3 \otimes e_4 + \frac{2}{1243}\sqrt{196241}e^1 \otimes e_6$	{1357, 147, 369, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30745}e^{12}, \frac{2}{787}\sqrt{16555}e^{17} + \frac{6}{787}\sqrt{2365}e^{34},$ $\frac{6}{787}\sqrt{2365}e^{27} + \frac{4}{787}\sqrt{4730}e^{35}$	$(\frac{209}{787}, -\frac{138}{787}, -\frac{83}{787}, \frac{363}{787}, \frac{16}{787}, -\frac{221}{787}, \frac{71}{787}, \frac{280}{787}, -\frac{67}{787})$ $+\frac{10}{787}\sqrt{2795}e^1 \otimes e_6 + \frac{2}{787}\sqrt{76970}e^4 \otimes e_9$	{12389, 1579, 24678, 3456}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{41}e^{12}, \frac{8}{257}\sqrt{19}e^{17} + \frac{8}{257}e^{34},$ $\frac{4}{257}\sqrt{15}e^{27} + \frac{8}{257}\sqrt{23}e^{35}$	$(\frac{6}{257}, -\frac{4}{257}, -\frac{18}{257}, \frac{26}{257}, \frac{16}{257}, -\frac{26}{257}, \frac{2}{257}, \frac{8}{257}, -\frac{2}{257})$ $+\frac{16}{257}\sqrt{3}e^3 \otimes e_6 + \frac{4}{257}\sqrt{101}e^1 \otimes e_9 + \frac{4}{257}\sqrt{86}e^5 \otimes e_8$	{1268, 1357, 234789, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{41}e^{12}, \frac{8}{257}\sqrt{19}e^{17} + \frac{8}{257}e^{34},$ $\frac{4}{257}\sqrt{15}e^{27} + \frac{8}{257}\sqrt{23}e^{35}$	$(\frac{6}{257}, -\frac{4}{257}, -\frac{18}{257}, \frac{26}{257}, \frac{16}{257}, -\frac{26}{257}, \frac{2}{257}, \frac{8}{257}, -\frac{2}{257})$ $+\frac{16}{257}\sqrt{3}e^3 \otimes e_6 - \frac{4}{257}\sqrt{101}e^1 \otimes e_9 + \frac{4}{257}\sqrt{86}e^5 \otimes e_8$	{1268, 1357, 234789, 4569}
932:6	$0, 0, 0, 0, 0, 0, \frac{232}{3951}\sqrt{31}e^{12}, \frac{8}{3951}\sqrt{33698}e^{17} + \frac{8}{1317}\sqrt{2494}e^{34},$ $\frac{8}{3951}\sqrt{435}e^{27} + \frac{16}{3951}\sqrt{11455}e^{35}$	$(\frac{212}{1317}, -\frac{464}{3951}, -\frac{386}{3951}, \frac{398}{1317}, \frac{94}{3951}, -\frac{278}{1317}, \frac{172}{3951}, \frac{808}{3951}, -\frac{292}{3951})$ $+\frac{8}{1317}\sqrt{7337}e^1 \otimes e_9 + \frac{8}{3951}\sqrt{36366}e^5 \otimes e_6$	{123458, 1268, 1357, 1467, 2346789, 25789, 369, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{232}{3951}\sqrt{31}e^{12}, \frac{8}{3951}\sqrt{33698}e^{17} + \frac{8}{1317}\sqrt{2494}e^{34},$ $\frac{8}{3951}\sqrt{435}e^{27} + \frac{16}{3951}\sqrt{11455}e^{35}$	$(\frac{212}{1317}, -\frac{464}{3951}, -\frac{386}{3951}, \frac{398}{1317}, \frac{94}{3951}, -\frac{278}{1317}, \frac{172}{3951}, \frac{808}{3951}, -\frac{292}{3951})$ $-\frac{8}{1317}\sqrt{7337}e^1 \otimes e_9 + \frac{8}{3951}\sqrt{36366}e^5 \otimes e_6$	{123458, 1268, 1357, 1467, 2346789, 25789, 369, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{7033e^{12}}, \frac{8}{441}\sqrt{1082e^{17}} + \frac{1}{441}\sqrt{61674e^{34}},$ $\frac{1}{441}\sqrt{61674e^{27}} + \frac{1}{441}\sqrt{200170e^{35}}$	$(-\frac{4}{147}, \frac{109}{441}, \frac{313}{441}, -\frac{76}{147}, -\frac{107}{441}, \frac{26}{147}, \frac{97}{441}, \frac{85}{441}, \frac{206}{441})$ $+ \frac{11}{441}\sqrt{3246e^3} \otimes e_4$	{13567, 1357, 1467, 147, 369, 39, 4569, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{4269}\sqrt{108367e^{12}}, \frac{4}{4269}\sqrt{165319e^{17}} + \frac{28}{4269}\sqrt{7006e^{34}},$ $\frac{182}{4269}\sqrt{113e^{27}} + \frac{2}{4269}\sqrt{81473e^{35}}$	$(\frac{370}{1423}, -\frac{303}{1423}, \frac{437}{4269}, \frac{874}{4269}, -\frac{1145}{4269}, \frac{137}{1423}, \frac{67}{1423}, \frac{437}{1423}, -\frac{236}{1423})$ $+ \frac{14}{4269}\sqrt{26781e^3} \otimes e_5 + \frac{2}{4269}\sqrt{1739409e^4} \otimes e_9$	{23467, 2347, 4568, 458}
932:6	$0, 0, 0, 0, 0, 0, \frac{4}{1107}\sqrt{1606e^{12}}, \frac{8}{1107}\sqrt{1705e^{17}} + \frac{4}{1107}\sqrt{15906e^{34}},$ $\frac{8}{1107}\sqrt{2343e^{27}} + \frac{4}{1107}\sqrt{7810e^{35}}$	$(\frac{76}{369}, -\frac{140}{1107}, \frac{16}{1107}, \frac{100}{369}, -\frac{68}{1107}, -\frac{112}{369}, \frac{88}{1107}, \frac{316}{1107}, -\frac{52}{1107})$ $+ \frac{16}{1107}\sqrt{1518e^4} \otimes e_9 + \frac{44}{123}\sqrt{2e^3} \otimes e_6$	{12569, 13789, 23457, 468}
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{917}\sqrt{555e^{12}}, \frac{24}{917}\sqrt{114e^{17}} + \frac{16}{917}\sqrt{57e^{34}},$ $\frac{8}{917}\sqrt{129e^{27}} + \frac{24}{917}\sqrt{114e^{35}}$	$(\frac{4}{131}, -\frac{48}{917}, -\frac{172}{917}, \frac{180}{917}, \frac{104}{917}, \frac{12}{131}, -\frac{20}{917}, \frac{8}{917}, -\frac{68}{917})$ $+ \frac{32}{917}\sqrt{66e^5} \otimes e_8 - \frac{8}{917}\sqrt{1383e^1} \otimes e_9 + \frac{8}{917}\sqrt{30e^4} \otimes e_6$	{1268, 13567, 234789, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{8}{917}\sqrt{555e^{12}}, \frac{24}{917}\sqrt{114e^{17}} + \frac{16}{917}\sqrt{57e^{34}},$ $\frac{8}{917}\sqrt{129e^{27}} + \frac{24}{917}\sqrt{114e^{35}}$	$(\frac{4}{131}, -\frac{48}{917}, -\frac{172}{917}, \frac{180}{917}, \frac{104}{917}, \frac{12}{131}, -\frac{20}{917}, \frac{8}{917}, -\frac{68}{917})$ $+ \frac{32}{917}\sqrt{66e^5} \otimes e_8 + \frac{8}{917}\sqrt{1383e^1} \otimes e_9 + \frac{8}{917}\sqrt{30e^4} \otimes e_6$	{1268, 13567, 234789, 459}
932:6	$0, 0, 0, 0, 0, 0, \frac{2}{459}\sqrt{5005e^{12}}, \frac{2}{459}\sqrt{16555e^{17}} + \frac{28}{459}\sqrt{165e^{34}},$ $\frac{28}{459}\sqrt{165e^{27}} + \frac{1}{459}\sqrt{31570e^{35}}$	$(\frac{46}{153}, -\frac{116}{459}, \frac{131}{459}, \frac{97}{153}, \frac{37}{459}, \frac{26}{153}, \frac{22}{459}, \frac{160}{459}, -\frac{94}{459})$ $+ \frac{1}{459}\sqrt{293370e^4} \otimes e_9$	{12569, 1259, 136789, 13789, 234567, 23457, 468, 48}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{995}\sqrt{592334e^{12}}, \frac{3}{995}\sqrt{68798e^{17}} + \frac{3}{995}\sqrt{31882e^{23}},$ $\frac{1}{995}\sqrt{179546e^{14}} + \frac{4}{995}\sqrt{5034e^{27}}$	$(\frac{166}{995}, \frac{27}{995}, \frac{332}{995}, \frac{54}{995}, -\frac{673}{995}, \frac{161}{995}, \frac{193}{995}, \frac{359}{995}, \frac{44}{199})$ $+ \frac{2}{995}\sqrt{349863e^1} \otimes e_5$	{123468, 12348, 13467, 1347, 23456789, 2345789, 34569, 3459}
932:7	$0, 0, 0, 0, 0, 0, \frac{6}{289}\sqrt{11e^{12}}, \frac{4}{289}\sqrt{10e^{17}} + \frac{4}{289}\sqrt{39e^{23}},$ $\frac{4}{289}\sqrt{39e^{14}} + \frac{4}{289}\sqrt{10e^{27}}$	$(-\frac{2}{289}, -\frac{2}{289}, -\frac{4}{289}, -\frac{4}{289}, \frac{15}{289}, \frac{15}{289}, -\frac{4}{289}, -\frac{6}{289}, -\frac{6}{289})$ $+ \frac{2}{289}\sqrt{137e^3} \otimes e_9 + \frac{2}{289}\sqrt{137e^4} \otimes e_8$	{1256789, 125789, 12789}
932:7	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{30e^{12}}, \frac{4}{53}\sqrt{35e^{17}} + \frac{12}{53}\sqrt{6e^{23}},$ $\frac{4}{53}\sqrt{57e^{14}} + \frac{4}{53}\sqrt{15e^{27}}$	$(\frac{29}{212}, -\frac{9}{106}, \frac{29}{106}, \frac{9}{53}, \frac{121}{212}, \frac{35}{106}, \frac{11}{212}, \frac{10}{53}, -\frac{7}{212})$ $+ \frac{40}{53}e^5 \otimes e_9 + \frac{4}{53}\sqrt{91e^3} \otimes e_6$	{1245678, 1456, 24689, 4679}
932:7	$0, 0, 0, 0, 0, 0, \frac{4}{81}\sqrt{65e^{12}}, \frac{2}{81}\sqrt{195e^{17}} + \frac{2}{81}\sqrt{130e^{23}},$ $\frac{2}{81}\sqrt{130e^{14}} + \frac{2}{81}\sqrt{195e^{27}}$	$(\frac{7}{81}, \frac{7}{81}, \frac{14}{81}, \frac{14}{81}, 1, -\frac{49}{81}, \frac{14}{81}, \frac{7}{27}, \frac{7}{27})$ $+ \frac{130}{81}e^5 \otimes e_6$	{12589, 12689, 1579, 1679, 5, 6}
932:7	$0, 0, 0, 0, 0, 0, \frac{16}{313}\sqrt{113e^{12}}, \frac{80}{313}\sqrt{2e^{17}} + \frac{16}{313}\sqrt{13e^{23}},$ $\frac{16}{313}\sqrt{13e^{14}} + \frac{80}{313}\sqrt{2e^{27}}$	$(\frac{24}{313}, \frac{24}{313}, \frac{48}{313}, \frac{48}{313}, -\frac{104}{313}, -\frac{104}{313}, \frac{48}{313}, \frac{72}{313}, \frac{72}{313})$ $+ \frac{16}{313}\sqrt{139e^1} \otimes e_5 + \frac{16}{313}\sqrt{139e^2} \otimes e_6$	{123489, 134679, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{971}\sqrt{128710e^{12}}, \frac{2}{971}\sqrt{136095e^{17}} + \frac{1}{971}\sqrt{647770e^{23}},$ $\frac{1}{971}\sqrt{78070e^{14}} + \frac{7}{971}\sqrt{6330e^{27}}$	$(-\frac{73}{971}, \frac{62}{971}, -\frac{146}{971}, \frac{124}{971}, 1, \frac{161}{971}, -\frac{11}{971}, -\frac{84}{971}, \frac{51}{971})$ $+ \frac{90}{971}\sqrt{211e^5} \otimes e_8$	{1235679, 123579, 13689, 1389, 235, 2356, 3678, 378}
932:7	$0, 0, 0, 0, 0, 0, \frac{2}{1339}\sqrt{187234e^{12}}, \frac{2}{1339}\sqrt{162890e^{17}} + \frac{2}{1339}\sqrt{123510e^{23}},$ $\frac{4}{1339}\sqrt{20585e^{14}} + \frac{4}{1339}\sqrt{18258e^{27}}$	$(\frac{246}{1339}, -\frac{235}{1339}, \frac{492}{1339}, -\frac{470}{1339}, \frac{492}{1339}, \frac{147}{1339}, \frac{11}{1339}, \frac{257}{1339}, -\frac{224}{1339})$ $+ \frac{22}{1339}\sqrt{2506e^1} \otimes e_4 + \frac{2}{1339}\sqrt{123510e^5} \otimes e_9$	{2345678, 234578, 345, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{626}\sqrt{47874e^{12}}, \frac{5}{313}\sqrt{606e^{17}} + \frac{1}{626}\sqrt{10605e^{23}},$ $\frac{1}{313}\sqrt{25755e^{14}} + \frac{3}{626}\sqrt{4242e^{27}}$	$(\frac{81}{1252}, \frac{65}{626}, \frac{81}{626}, \frac{65}{313}, -\frac{525}{1252}, -\frac{173}{626}, \frac{211}{1252}, \frac{73}{313}, \frac{341}{1252})$ $+ \frac{1}{313}\sqrt{49389e^1} \otimes e_5 + \frac{1}{626}\sqrt{143319e^4} \otimes e_6$	{12348, 1347, 2345789, 3459}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{210e^{12}}, \frac{21}{139}\sqrt{5e^{17}} + \frac{1}{139}\sqrt{2030e^{23}},$ $\frac{5}{139}\sqrt{133e^{14}} + \frac{8}{139}\sqrt{35e^{27}}$	$(-\frac{17}{278}, \frac{18}{139}, -\frac{17}{139}, \frac{36}{139}, -\frac{87}{278}, \frac{12}{139}, \frac{19}{139}, \frac{1}{278}, \frac{55}{278})$ $+ \frac{1}{139}\sqrt{3885e^1} \otimes e_5 + \frac{1}{139}\sqrt{5005e^4} \otimes e_8$	{13689, 1389, 35678, 3578}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{770}\sqrt{82570e^{12}}, \frac{1}{770}\sqrt{36618e^{17}} + \frac{1}{385}\sqrt{57799e^{23}},$ $\frac{1}{770}\sqrt{62107e^{14}} + \frac{1}{385}\sqrt{23694e^{27}}$	$(\frac{41}{770}, -\frac{23}{1540}, \frac{41}{385}, -\frac{23}{770}, \frac{859}{1540}, -\frac{277}{770}, \frac{59}{1540}, \frac{141}{1540}, \frac{9}{385})$ $+ \frac{1}{385}\sqrt{65697e^5} \otimes e_8 + \frac{1}{770}\sqrt{244479e^3} \otimes e_6$	{123579, 1389, 235, 378}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{36642e^{12}}, \frac{4}{313}\sqrt{2561e^{17}} + \frac{1}{313}\sqrt{62646e^{23}},$ $\frac{1}{313}\sqrt{62646e^{14}} + \frac{1}{313}\sqrt{13002e^{27}}$	$(\frac{77}{313}, -\frac{60}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{39}{313}, \frac{17}{313}, \frac{94}{313}, -\frac{43}{313})$ $+ \frac{2}{313}\sqrt{26989e^3} \otimes e_9$	{245689, 24589, 2489, 45679, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:7	$0, 0, 0, 0, 0, 0, \frac{10}{289}\sqrt{7}e^{12}, \frac{2}{289}\sqrt{97}e^{17} + \frac{2}{289}\sqrt{118}e^{23},$ $\frac{2}{289}\sqrt{118}e^{14} + \frac{2}{289}\sqrt{97}e^{27}$	$(-\frac{2}{289}, -\frac{2}{289}, -\frac{4}{289}, -\frac{4}{289}, \frac{15}{289}, \frac{15}{289}, -\frac{4}{289}, -\frac{6}{289}, -\frac{6}{289})$ $+ \frac{2}{289}\sqrt{137}e^1 \otimes e_4 + \frac{2}{289}\sqrt{137}e^2 \otimes e_3$	{34, 345, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{71314}e^{12}, \frac{2}{313}\sqrt{16745}e^{17} + \frac{1}{313}\sqrt{45310}e^{23},$ $\frac{1}{313}\sqrt{45310}e^{14} + \frac{1}{313}\sqrt{13002}e^{27}$	$(\frac{77}{313}, -\frac{60}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{39}{313}, \frac{17}{313}, \frac{94}{313}, -\frac{43}{313})$ $+ \frac{2}{313}\sqrt{26989}e^1 \otimes e_4$	{2345678, 234578, 23478, 34, 345, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{310}\sqrt{45466}e^{12}, \frac{1}{155}\sqrt{10919}e^{17} + \frac{2}{155}\sqrt{1253}e^{23},$ $\frac{3}{310}\sqrt{3043}e^{14} + \frac{1}{310}\sqrt{5370}e^{27}$	$(\frac{38}{155}, -\frac{103}{620}, \frac{76}{155}, -\frac{103}{310}, -\frac{27}{310}, \frac{69}{620}, \frac{49}{620}, \frac{201}{620}, -\frac{27}{310})$ $+ \frac{1}{155}\sqrt{19153}e^1 \otimes e_4 + \frac{1}{310}\sqrt{22017}e^3 \otimes e_5$	{234678, 23478, 34, 346}
932:7	$0, 0, 0, 0, 0, 0, \frac{20}{61}e^{12}, \frac{4}{61}\sqrt{15}e^{17} + \frac{4}{61}\sqrt{55}e^{23},$ $\frac{4}{61}\sqrt{55}e^{14} + \frac{4}{61}\sqrt{15}e^{27}$	$(-\frac{2}{61}, -\frac{2}{61}, -\frac{4}{61}, -\frac{4}{61}, \frac{34}{61}, \frac{34}{61}, -\frac{4}{61}, -\frac{6}{61}, -\frac{6}{61})$ $+ \frac{12}{61}\sqrt{15}e^5 \otimes e_8 + \frac{12}{61}\sqrt{15}e^6 \otimes e_9$	{1234567, 13468, 34789}
932:7	$0, 0, 0, 0, 0, 0, \frac{152}{1351}\sqrt{3}e^{12}, \frac{8}{1351}\sqrt{1406}e^{17} + \frac{8}{1351}\sqrt{6042}e^{23},$ $\frac{24}{1351}\sqrt{1007}e^{14} + \frac{8}{1351}\sqrt{969}e^{27}$	$(\frac{278}{1351}, -\frac{165}{1351}, \frac{556}{1351}, -\frac{330}{1351}, -\frac{330}{1351}, \frac{21}{1351}, \frac{113}{1351}, \frac{391}{1351}, -\frac{52}{1351})$ $+ \frac{24}{1351}\sqrt{1007}e^1 \otimes e_5 + \frac{8}{1351}\sqrt{13813}e^3 \otimes e_9$	{245689, 24589, 45679, 4579}
932:7	$0, 0, 0, 0, 0, 0, \frac{30}{659}\sqrt{94}e^{12}, \frac{90}{659}\sqrt{14}e^{17} + \frac{120}{659}\sqrt{2}e^{23},$ $\frac{15}{659}\sqrt{223}e^{14} + \frac{15}{659}\sqrt{29}e^{27}$	$(\frac{60}{659}, -\frac{165}{1318}, \frac{120}{659}, -\frac{165}{659}, \frac{525}{1318}, \frac{120}{659}, \frac{45}{1318}, \frac{75}{1318}, \frac{105}{659})$ $+ \frac{120}{659}\sqrt{2}e^6 \otimes e_9 + \frac{15}{659}\sqrt{413}e^5 \otimes e_8 + \frac{15}{659}\sqrt{665}e^1 \otimes e_4$	{234678, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{27}{4061}\sqrt{402}e^{12}, \frac{27}{4061}\sqrt{1090}e^{17} + \frac{27}{4061}\sqrt{1462}e^{23},$ $\frac{27}{4061}\sqrt{2830}e^{14} + \frac{108}{4061}\sqrt{66}e^{27}$	$(-\frac{216}{4061}, \frac{297}{4061}, -\frac{432}{4061}, \frac{594}{4061}, \frac{1107}{4061}, -\frac{945}{4061}, \frac{81}{4061}, -\frac{135}{4061}, \frac{378}{4061})$ $+ \frac{108}{4061}\sqrt{101}e^5 \otimes e_9 + \frac{162}{4061}\sqrt{95}e^4 \otimes e_8 + \frac{54}{4061}\sqrt{622}e^1 \otimes e_6$	{1389, 35678}
932:7	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{355}e^{12}, \frac{1}{59}\sqrt{1065}e^{17} + \frac{2}{59}\sqrt{994}e^{23},$ $\frac{1}{59}\sqrt{1633}e^{14} + \frac{1}{59}\sqrt{1065}e^{27}$	$(\frac{31}{118}, -\frac{1}{59}, \frac{31}{59}, -\frac{2}{59}, -\frac{40}{118}, \frac{19}{118}, \frac{29}{118}, \frac{30}{59}, \frac{27}{118})$ $+ \frac{3}{59}\sqrt{781}e^3 \otimes e_5$	{1256789, 125789, 1569, 159, 2568, 258, 567, 57}
932:7	$0, 0, 0, 0, 0, 0, \frac{9}{145}\sqrt{30}e^{12}, \frac{6}{145}\sqrt{115}e^{17} + \frac{3}{145}\sqrt{70}e^{23},$ $\frac{18}{145}\sqrt{5}e^{14} + \frac{12}{145}\sqrt{5}e^{27}$	$(\frac{3}{29}, -\frac{3}{29}, \frac{6}{29}, -\frac{6}{29}, \frac{12}{29}, -\frac{3}{29}, 0, \frac{3}{29}, -\frac{3}{29})$ $+ \frac{21}{145}\sqrt{10}e^5 \otimes e_8 + \frac{3}{145}\sqrt{590}e^1 \otimes e_4 + \frac{6}{145}\sqrt{65}e^3 \otimes e_6$	{1268, 1567}
932:7	$0, 0, 0, 0, 0, 0, \frac{14}{325}\sqrt{42}e^{12}, \frac{7}{325}\sqrt{26}e^{17} + \frac{7}{325}\sqrt{282}e^{23},$ $\frac{7}{325}\sqrt{258}e^{14} + \frac{14}{325}\sqrt{30}e^{27}$	$(-\frac{14}{325}, \frac{21}{325}, -\frac{28}{325}, \frac{42}{325}, \frac{77}{325}, -\frac{77}{325}, \frac{7}{325}, -\frac{7}{325}, \frac{28}{325})$ $+ \frac{21}{325}\sqrt{34}e^4 \otimes e_8 + \frac{7}{325}\sqrt{118}e^5 \otimes e_9 + \frac{7}{325}\sqrt{190}e^3 \otimes e_6$	{126789, 2568}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{12513}e^{12}, \frac{1}{275}\sqrt{6305}e^{17} + \frac{1}{275}\sqrt{24153}e^{23},$ $\frac{1}{275}\sqrt{18042}e^{14} + \frac{1}{275}\sqrt{291}e^{27}$	$(\frac{28}{275}, -\frac{69}{550}, \frac{56}{275}, -\frac{69}{275}, \frac{237}{550}, \frac{24}{275}, -\frac{13}{550}, \frac{43}{550}, -\frac{41}{275})$ $+ \frac{1}{275}\sqrt{30361}e^3 \otimes e_9 + \frac{3}{275}\sqrt{2037}e^5 \otimes e_8$	{126789, 12789, 1569, 159}
932:7	$0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{36642}e^{12}, \frac{8}{823}\sqrt{2561}e^{17} + \frac{2}{823}\sqrt{62646}e^{23},$ $\frac{2}{823}\sqrt{62646}e^{14} + \frac{2}{823}\sqrt{13002}e^{27}$	$(\frac{154}{823}, -\frac{120}{823}, \frac{308}{823}, -\frac{240}{823}, \frac{275}{823}, \frac{119}{823}, \frac{34}{823}, \frac{188}{823}, -\frac{86}{823})$ $+ \frac{394}{823}e^5 \otimes e_6 + \frac{4}{823}\sqrt{26989}e^3 \otimes e_9$	{24589, 24689, 4579, 4679}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{145}\sqrt{7}e^{12}, \frac{1}{145}\sqrt{97}e^{17} + \frac{1}{145}\sqrt{118}e^{23},$ $\frac{1}{145}\sqrt{118}e^{14} + \frac{1}{145}\sqrt{97}e^{27}$	$(-\frac{1}{145}, -\frac{1}{145}, -\frac{2}{145}, -\frac{2}{145}, \frac{8}{145}, \frac{7}{145}, -\frac{2}{145}, -\frac{3}{145}, -\frac{3}{145})$ $+ \frac{1}{145}\sqrt{137}e^1 \otimes e_4 + \frac{1}{145}\sqrt{137}e^2 \otimes e_3 + \frac{1}{145}e^5 \otimes e_6$	{345, 346}
932:7	$0, 0, 0, 0, 0, 0, \frac{21}{367}\sqrt{10}e^{12}, \frac{7}{367}\sqrt{70}e^{17} + \frac{7}{367}\sqrt{390}e^{23},$ $\frac{14}{367}\sqrt{93}e^{14} + \frac{21}{367}\sqrt{6}e^{27}$	$(\frac{35}{367}, -\frac{63}{734}, \frac{70}{367}, -\frac{63}{367}, \frac{273}{734}, -\frac{63}{367}, \frac{7}{734}, \frac{77}{734}, -\frac{28}{367})$ $+ \frac{14}{367}\sqrt{93}e^1 \otimes e_6 + \frac{35}{367}\sqrt{22}e^3 \otimes e_9 + \frac{7}{367}\sqrt{426}e^5 \otimes e_8$	{2356, 3678}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{15}e^{12}, \frac{3}{16}\sqrt{5}e^{17} + \frac{1}{16}\sqrt{102}e^{23},$ $\frac{1}{16}\sqrt{102}e^{14} + \frac{3}{16}\sqrt{5}e^{27}$	$(\frac{3}{32}, \frac{3}{32}, \frac{3}{16}, \frac{3}{16}, -\frac{3}{8}, -\frac{3}{8}, \frac{3}{16}, \frac{9}{32}, \frac{9}{32})$ $+ \frac{1}{8}\sqrt{33}e^3 \otimes e_5 + \frac{1}{8}\sqrt{33}e^4 \otimes e_6$	{1256789, 1569, 567}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2590}e^{12}, \frac{1}{121}\sqrt{3145}e^{17} + \frac{1}{121}\sqrt{1406}e^{23},$ $\frac{1}{121}\sqrt{2553}e^{14} + \frac{3}{121}\sqrt{185}e^{27}$	$(\frac{93}{484}, -\frac{3}{242}, \frac{93}{242}, -\frac{3}{121}, -\frac{203}{484}, -\frac{5}{22}, \frac{87}{484}, \frac{45}{121}, \frac{81}{484})$ $+ \frac{1}{121}\sqrt{6179}e^3 \otimes e_6 + \frac{2}{121}\sqrt{2405}e^1 \otimes e_5$	{12468, 1467, 2456789, 4569}
932:7	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{4462}e^{12}, \frac{2}{275}\sqrt{6014}e^{17} + \frac{8}{275}\sqrt{97}e^{23},$ $\frac{1}{275}\sqrt{12319}e^{14} + \frac{1}{275}\sqrt{291}e^{27}$	$(\frac{28}{275}, -\frac{69}{550}, \frac{56}{275}, -\frac{69}{275}, \frac{237}{550}, \frac{24}{275}, -\frac{13}{550}, \frac{43}{550}, -\frac{41}{275})$ $+ \frac{1}{275}\sqrt{30361}e^1 \otimes e_4 + \frac{3}{275}\sqrt{2037}e^5 \otimes e_8$	{12368, 1238, 13567, 1357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:7	$0, 0, 0, 0, 0, 0, \frac{319}{1765}\sqrt{6}e^{12}, \frac{58}{1765}\sqrt{154}e^{17} + \frac{87}{1765}\sqrt{22}e^{23},$ $\frac{58}{1765}\sqrt{33}e^{14} + \frac{29}{1765}\sqrt{330}e^{27}$	$(\frac{319}{1765}, -\frac{261}{1765}, \frac{638}{1765}, -\frac{522}{1765}, \frac{638}{1765}, -\frac{203}{1765}, \frac{58}{1765}, \frac{377}{1765}, -\frac{203}{1765})$ $+ \frac{174}{1765}\sqrt{42}e^1 \otimes e_4 + \frac{29}{1765}\sqrt{742}e^3 \otimes e_6 + \frac{58}{1765}\sqrt{235}e^5 \otimes e_9$	{234578, 345}
932:7	$0, 0, 0, 0, 0, 0, \frac{3}{145}\sqrt{11}e^{12}, \frac{2}{145}\sqrt{10}e^{17} + \frac{2}{145}\sqrt{39}e^{23},$ $\frac{2}{145}\sqrt{39}e^{14} + \frac{2}{145}\sqrt{10}e^{27}$	$(-\frac{1}{145}, -\frac{1}{145}, -\frac{2}{145}, -\frac{2}{145}, \frac{8}{145}, \frac{7}{145}, -\frac{2}{145}, -\frac{3}{145}, -\frac{3}{145})$ $+ \frac{1}{145}\sqrt{137}e^3 \otimes e_9 + \frac{1}{145}\sqrt{137}e^4 \otimes e_8 + \frac{1}{145}e^5 \otimes e_6$	{125789, 126789}
932:7	$0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{71314}e^{12}, \frac{4}{823}\sqrt{16745}e^{17} + \frac{2}{823}\sqrt{45310}e^{23},$ $\frac{2}{823}\sqrt{45310}e^{14} + \frac{2}{823}\sqrt{13002}e^{27}$	$(\frac{154}{823}, -\frac{120}{823}, \frac{308}{823}, -\frac{240}{823}, \frac{275}{823}, \frac{119}{823}, \frac{34}{823}, \frac{188}{823}, -\frac{86}{823})$ $+ \frac{394}{823}e^5 \otimes e_6 + \frac{4}{823}\sqrt{26989}e^1 \otimes e_4$	{234578, 234678, 345, 346}
932:7	$0, 0, 0, 0, 0, 0, \frac{13}{737}\sqrt{595}e^{12}, \frac{13}{737}\sqrt{293}e^{17} + \frac{104}{737}\sqrt{3}e^{23},$ $\frac{13}{737}\sqrt{311}e^{14} + \frac{13}{737}\sqrt{357}e^{27}$	$(\frac{78}{737}, -\frac{91}{1474}, \frac{156}{737}, -\frac{91}{737}, \frac{156}{737}, -\frac{39}{134}, \frac{65}{1474}, \frac{221}{1474}, -\frac{13}{737})$ $+ \frac{104}{737}\sqrt{3}e^5 \otimes e_9 + \frac{13}{737}\sqrt{613}e^1 \otimes e_4 + \frac{39}{737}\sqrt{61}e^2 \otimes e_6$	{234578, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{72}{1153}\sqrt{42}e^{12}, \frac{72}{1153}\sqrt{35}e^{17} + \frac{9}{1153}\sqrt{1498}e^{23},$ $\frac{9}{1153}\sqrt{3290}e^{14} + \frac{72}{1153}\sqrt{21}e^{27}$	$(\frac{117}{1153}, -\frac{54}{1153}, \frac{234}{1153}, -\frac{108}{1153}, \frac{576}{1153}, -\frac{450}{1153}, \frac{63}{1153}, \frac{180}{1153}, \frac{9}{1153})$ $+ \frac{9}{1153}\sqrt{6286}e^5 \otimes e_9 + \frac{9}{1153}\sqrt{8078}e^1 \otimes e_6$	{12389, 1379, 235678, 356}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{325}\sqrt{422}e^{12}, \frac{2}{975}\sqrt{489}e^{17} + \frac{1}{975}\sqrt{2658}e^{23},$ $\frac{1}{975}\sqrt{159}e^{14} + \frac{2}{975}\sqrt{546}e^{27}$	$(-\frac{1}{325}, -\frac{1}{325}, -\frac{2}{325}, -\frac{2}{325}, -\frac{2}{325}, \frac{17}{325}, -\frac{2}{325}, \frac{3}{325}, -\frac{3}{325})$ $+ \frac{1}{325}\sqrt{38}e^5 \otimes e_8 + \frac{1}{975}\sqrt{2886}e^1 \otimes e_4 + \frac{2}{195}\sqrt{30}e^2 \otimes e_3$	{34, 346}
932:7	$0, 0, 0, 0, 0, 0, \frac{24}{2591}\sqrt{1610}e^{12}, \frac{4}{2591}\sqrt{119370}e^{17} + \frac{12}{2591}\sqrt{1610}e^{23},$ $\frac{36}{2591}\sqrt{322}e^{14} + \frac{8}{2591}\sqrt{10281}e^{27}$	$(\frac{80}{2591}, \frac{38}{2591}, \frac{160}{2591}, \frac{76}{2591}, \frac{1302}{2591}, -\frac{1024}{2591}, \frac{118}{2591}, \frac{198}{2591}, \frac{156}{2591})$ $+ \frac{4}{2591}\sqrt{143106}e^5 \otimes e_8 + \frac{4}{2591}\sqrt{177882}e^1 \otimes e_6$	{1248, 1457, 246789, 4569}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{181}\sqrt{3990}e^{12}, \frac{1}{181}\sqrt{57}e^{17} + \frac{1}{181}\sqrt{7258}e^{23},$ $\frac{1}{181}\sqrt{5567}e^{14} + \frac{19}{181}\sqrt{11}e^{27}$	$(-\frac{35}{724}, \frac{41}{362}, -\frac{35}{362}, \frac{41}{181}, -\frac{111}{362}, \frac{45}{724}, \frac{47}{724}, \frac{3}{181}, \frac{129}{724})$ $+ \frac{1}{181}\sqrt{5073}e^3 \otimes e_5 + \frac{2}{181}\sqrt{1957}e^4 \otimes e_8$	{1256789, 125789, 2568, 258}
932:7	$0, 0, 0, 0, 0, 0, \frac{27}{4061}\sqrt{3018}e^{12}, \frac{54}{4061}\sqrt{591}e^{17} + \frac{27}{4061}\sqrt{590}e^{23},$ $\frac{27}{4061}\sqrt{1958}e^{14} + \frac{27}{4061}\sqrt{1090}e^{27}$	$(\frac{297}{4061}, -\frac{216}{4061}, \frac{594}{4061}, -\frac{432}{4061}, \frac{1107}{4061}, -\frac{945}{4061}, \frac{81}{4061}, \frac{378}{4061}, -\frac{135}{4061})$ $+ \frac{108}{4061}\sqrt{101}e^5 \otimes e_8 + \frac{162}{4061}\sqrt{95}e^1 \otimes e_4 + \frac{54}{4061}\sqrt{622}e^2 \otimes e_6$	{23478, 3456}
932:7	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{4795}e^{12}, \frac{1}{139}\sqrt{2765}e^{17} + \frac{4}{139}\sqrt{105}e^{23},$ $\frac{5}{139}\sqrt{119}e^{14} + \frac{21}{139}\sqrt{5}e^{27}$	$(\frac{18}{139}, -\frac{17}{278}, \frac{36}{139}, -\frac{17}{139}, -\frac{87}{278}, \frac{12}{139}, \frac{19}{278}, \frac{55}{278}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^2 \otimes e_5 + \frac{1}{139}\sqrt{5005}e^1 \otimes e_4$	{234678, 23478, 345, 3456}
932:8	$0, 0, 0, 0, 0, 0, \frac{52}{269}\sqrt{7}e^{12}, \frac{39}{269}\sqrt{6}e^{17},$ $\frac{26}{269}e^{13} + \frac{91}{269}\sqrt{2}e^{27} + \frac{26}{269}\sqrt{3}e^{45}$	$(-\frac{52}{269}, \frac{65}{269}, \frac{130}{269}, \frac{39}{269}, \frac{39}{269}, -\frac{104}{269}, \frac{13}{269}, -\frac{39}{269}, \frac{78}{269})$ $+ \frac{13}{269}\sqrt{274}e^2 \otimes e_6 + \frac{39}{269}\sqrt{22}e^3 \otimes e_8$	{124589, 1289, 2478}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{3693}\sqrt{817802}e^{12}, \frac{136}{3693}\sqrt{201}e^{17},$ $\frac{40}{3693}\sqrt{1139}e^{13} + \frac{14}{3693}\sqrt{6834}e^{27} + \frac{3693}{3693}\sqrt{129846}e^{45}$	$(\frac{620}{3693}, \frac{8}{1231}, \frac{16}{1231}, \frac{491}{1231}, -\frac{805}{3693}, -\frac{1658}{3693}, \frac{644}{3693}, \frac{1264}{3693}, \frac{668}{3693})$ $+ \frac{2278}{3693}e^4 \otimes e_5 + \frac{6}{1231}\sqrt{29614}e^1 \otimes e_6$	{2346789, 2356789, 3469, 3569}
932:8	$0, 0, 0, 0, 0, 0, \frac{8}{207}\sqrt{133}e^{12}, \frac{4}{69}\sqrt{209}e^{17},$ $\frac{8}{207}\sqrt{247}e^{13} + \frac{76}{207}\sqrt{2}e^{27} + \frac{4}{69}\sqrt{209}e^{45}$	$(-\frac{43}{207}, \frac{14}{69}, \frac{28}{69}, \frac{12}{23}, -\frac{67}{207}, \frac{32}{207}, -\frac{1}{207}, -\frac{44}{207}, \frac{41}{207})$ $+ \frac{20}{207}\sqrt{133}e^4 \otimes e_8$	{1268, 128, 14567, 1457, 256789, 25789, 469, 49}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{3741}\sqrt{145090}e^{12}, \frac{52}{3741}\sqrt{1319}e^{17},$ $\frac{2}{3741}\sqrt{962870}e^{13} + \frac{8}{3741}\sqrt{27699}e^{27} + \frac{2}{3741}\sqrt{2638}e^{45}$	$(-\frac{896}{3741}, \frac{282}{1247}, \frac{564}{3741}, \frac{1717}{3741}, -\frac{307}{1247}, \frac{400}{3741}, -\frac{50}{3741}, -\frac{22}{87}, \frac{796}{3741})$ $+ \frac{2638}{3741}e^4 \otimes e_5 + \frac{2}{3741}\sqrt{2667018}e^3 \otimes e_8$	{14689, 1489, 15689, 1589}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{251}\sqrt{1358}e^{12}, \frac{4}{251}\sqrt{291}e^{17},$ $\frac{2}{251}\sqrt{6402}e^{13} + \frac{2}{251}\sqrt{582}e^{27} + \frac{4}{251}\sqrt{291}e^{45}$	$(-\frac{16}{251}, \frac{44}{251}, \frac{88}{251}, \frac{133}{251}, -\frac{61}{251}, -\frac{106}{251}, \frac{28}{251}, \frac{12}{251}, \frac{72}{251})$ $+ \frac{194}{251}e^4 \otimes e_5 + \frac{2}{251}\sqrt{12610}e^3 \otimes e_6$	{2468, 2568, 467, 567}
932:8	$0, 0, 0, 0, 0, 0, \frac{104}{707}\sqrt{7}e^{12}, \frac{78}{707}\sqrt{6}e^{17},$ $\frac{52}{707}e^{13} + \frac{26}{101}\sqrt{2}e^{27} + \frac{52}{707}\sqrt{3}e^{45}$	$(-\frac{104}{707}, \frac{130}{707}, \frac{260}{707}, -\frac{13}{101}, \frac{247}{707}, -\frac{208}{707}, \frac{26}{707}, -\frac{78}{707}, \frac{156}{707})$ $+ \frac{26}{707}\sqrt{274}e^2 \otimes e_6 + \frac{338}{707}e^5 \otimes e_4 + \frac{78}{707}\sqrt{22}e^3 \otimes e_8$	{2478, 2578}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{317}\sqrt{17018}e^{12}, \frac{4}{317}\sqrt{4445}e^{17},$ $\frac{2}{317}\sqrt{10795}e^{13} + \frac{6}{317}\sqrt{254}e^{27} + \frac{4}{317}\sqrt{1651}e^{45}$	$(\frac{128}{317}, -\frac{63}{317}, -\frac{126}{317}, \frac{1}{317}, \frac{1}{317}, \frac{53}{317}, \frac{65}{317}, \frac{193}{317}, \frac{2}{317})$ $+ \frac{4}{317}\sqrt{8382}e^1 \otimes e_3$	{124568, 12458, 1268, 128, 14567, 1457, 167, 17}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{295}\sqrt{7387}e^{12}, \frac{2}{295}\sqrt{267}e^{17},$ $\frac{2}{295}\sqrt{3827}e^{13} + \frac{2}{295}\sqrt{7565}e^{27} + \frac{2}{295}\sqrt{267}e^{45}$	$(-\frac{4}{295}, \frac{38}{295}, \frac{76}{295}, \frac{25}{59}, -\frac{53}{295}, -\frac{28}{59}, \frac{34}{295}, \frac{6}{59}, \frac{72}{295})$ $+\frac{178}{295}e^4 \otimes e_5 + \frac{2}{295}\sqrt{15397}e^2 \otimes e_6$	{2347, 2357, 3468, 3568}
932:8	$0, 0, 0, 0, 0, 0, \frac{88}{841}\sqrt{22}e^{12}, \frac{132}{841}\sqrt{5}e^{17},$ $\frac{22}{841}\sqrt{215}e^{13} + \frac{22}{841}\sqrt{146}e^{27} + \frac{22}{841}\sqrt{51}e^{45}$	$(\frac{154}{841}, -\frac{44}{841}, -\frac{88}{841}, \frac{33}{841}, \frac{33}{841}, -\frac{286}{841}, \frac{110}{841}, \frac{264}{841}, \frac{66}{841})$ $+\frac{22}{841}\sqrt{370}e^2 \otimes e_6 + \frac{66}{841}\sqrt{43}e^1 \otimes e_3$	{234578, 2378, 3456, 36}
932:8	$0, 0, 0, 0, 0, 0, \frac{87}{2065}\sqrt{23}e^{12}, \frac{116}{2065}\sqrt{14}e^{17},$ $\frac{232}{2065}\sqrt{15}e^{13} + \frac{38}{2065}\sqrt{35}e^{27} + \frac{174}{2065}\sqrt{7}e^{45}$	$(-\frac{319}{2065}, \frac{29}{2065}, \frac{58}{2065}, \frac{464}{2065}, -\frac{377}{2065}, \frac{928}{2065}, -\frac{116}{2065}, -\frac{87}{2065}, \frac{87}{2065})$ $+\frac{29}{2065}\sqrt{1433}e^3 \otimes e_8 + \frac{29}{2065}\sqrt{1517}e^6 \otimes e_9 + \frac{841}{2065}e^4 \otimes e_5$	{2349, 2359}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{817802}e^{12}, \frac{68}{1277}\sqrt{201}e^{17},$ $\frac{20}{1277}\sqrt{1139}e^{13} + \frac{7}{1277}\sqrt{6834}e^{27} + \frac{1}{1277}\sqrt{129846}e^{45}$	$(\frac{310}{1277}, \frac{12}{1277}, \frac{24}{1277}, \frac{167}{1277}, \frac{167}{1277}, -\frac{829}{1277}, \frac{322}{1277}, \frac{632}{1277}, \frac{334}{1277})$ $+\frac{9}{1277}\sqrt{29614}e^1 \otimes e_6$	{123458, 1238, 13457, 137, 2346789, 3469}
932:8	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383}e^{12}, \frac{1}{311}\sqrt{30257}e^{17},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{3}{311}\sqrt{1915}e^{27} + \frac{1}{311}\sqrt{23746}e^{45}$	$(\frac{49}{622}, \frac{48}{311}, \frac{96}{311}, \frac{187}{311}, -\frac{133}{622}, -\frac{196}{311}, \frac{145}{622}, \frac{97}{311}, \frac{241}{622})$ $+\frac{13}{311}\sqrt{1149}e^4 \otimes e_6$	{12458, 1268, 1457, 167, 24789, 256789, 49, 569}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{103}\sqrt{7387}e^{12}, \frac{1}{103}\sqrt{267}e^{17},$ $\frac{1}{103}\sqrt{3827}e^{13} + \frac{1}{103}\sqrt{7565}e^{27} + \frac{1}{103}\sqrt{267}e^{45}$	$(-\frac{2}{103}, \frac{19}{103}, \frac{38}{103}, \frac{18}{103}, \frac{18}{103}, -\frac{70}{103}, \frac{17}{103}, \frac{15}{103}, \frac{36}{103})$ $+\frac{1}{103}\sqrt{15397}e^2 \otimes e_6$	{123459, 1239, 13456789, 136789, 2347, 3468}
932:8	$0, 0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{3}{89}\sqrt{205}e^{17},$ $\frac{1}{89}\sqrt{1763}e^{13} + \frac{1}{89}\sqrt{615}e^{27} + \frac{3}{89}\sqrt{205}e^{45}$	$(-\frac{13}{89}, \frac{16}{89}, \frac{32}{89}, \frac{31}{89}, -\frac{12}{89}, -\frac{25}{89}, \frac{3}{89}, -\frac{10}{89}, \frac{19}{89})$ $+\frac{1}{89}\sqrt{2911}e^2 \otimes e_6 + \frac{1}{89}\sqrt{3526}e^4 \otimes e_8$	{123589, 134679, 2378, 3456}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{1653}\sqrt{297946}e^{12}, \frac{2}{1653}\sqrt{159247}e^{17},$ $\frac{2}{1653}\sqrt{24751}e^{13} + \frac{1}{1653}\sqrt{268058}e^{27} + \frac{1}{1653}\sqrt{424970}e^{45}$	$(-\frac{44}{1653}, \frac{46}{551}, \frac{92}{551}, \frac{517}{1653}, -\frac{5}{29}, -\frac{511}{1653}, \frac{94}{1653}, \frac{50}{1653}, \frac{8}{57})$ $+\frac{1}{1653}\sqrt{636054}e^1 \otimes e_6 + \frac{2}{1653}\sqrt{187267}e^4 \otimes e_8$	{128, 1457, 256789, 469}
932:8	$0, 0, 0, 0, 0, 0, \frac{26}{1033}\sqrt{290}e^{12}, \frac{390}{1033}\sqrt{2}e^{17},$ $\frac{26}{1033}\sqrt{231}e^{13} + \frac{26}{1033}\sqrt{86}e^{27} + \frac{36}{1033}\sqrt{139}e^{45}$	$(\frac{130}{1033}, -\frac{104}{1033}, -\frac{208}{1033}, \frac{39}{1033}, -\frac{39}{1033}, \frac{494}{1033}, \frac{26}{1033}, \frac{156}{1033}, -\frac{78}{1033})$ $+\frac{182}{1033}\sqrt{11}e^1 \otimes e_3 + \frac{26}{1033}\sqrt{394}e^6 \otimes e_8$	{12458, 128, 14567, 167}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{3789}\sqrt{268786}e^{12}, \frac{20}{1263}\sqrt{526}e^{17},$ $\frac{2}{3789}\sqrt{279043}e^{13} + \frac{10}{3789}\sqrt{5786}e^{27} + \frac{2}{1263}\sqrt{36294}e^{45}$	$(\frac{244}{3789}, -\frac{47}{1263}, -\frac{94}{1263}, \frac{97}{421}, -\frac{911}{3789}, \frac{331}{3789}, \frac{103}{3789}, \frac{347}{3789}, -\frac{38}{3789})$ $+\frac{2}{1263}\sqrt{48918}e^1 \otimes e_3 + \frac{4}{3789}\sqrt{117298}e^4 \otimes e_8$	{1268, 128, 14567, 1457}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{17626}e^{12}, \frac{2}{1241}\sqrt{76799}e^{17},$ $\frac{4}{1241}\sqrt{46583}e^{13} + \frac{1}{1241}\sqrt{177519}e^{27} + \frac{1}{1241}\sqrt{556478}e^{45}$	$(\frac{66}{1241}, -\frac{42}{1241}, -\frac{84}{1241}, -\frac{9}{1241}, -\frac{9}{1241}, 1, \frac{24}{1241}, \frac{90}{1241}, -\frac{18}{1241})$ $+\frac{7}{1241}\sqrt{52878}e^6 \otimes e_9$	{12345678, 123678, 13456, 136, 23489, 3479}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{26}{1211}\sqrt{1319}e^{17},$ $\frac{1}{1211}\sqrt{962870}e^{13} + \frac{4}{1211}\sqrt{27699}e^{27} + \frac{1}{1211}\sqrt{2638}e^{45}$	$(-\frac{64}{173}, \frac{423}{1211}, \frac{846}{1211}, \frac{199}{1211}, \frac{199}{1211}, \frac{200}{1211}, -\frac{25}{1211}, -\frac{473}{1211}, \frac{398}{1211})$ $+\frac{1}{1211}\sqrt{2667018}e^3 \otimes e_8$	{14689, 1489, 45678, 4578, 678, 78}
932:8	$0, 0, 0, 0, 0, 0, \frac{100}{4081}\sqrt{110}e^{12}, \frac{50}{4081}\sqrt{1230}e^{17},$ $\frac{650}{4081}\sqrt{6}e^{13} + \frac{50}{4081}\sqrt{623}e^{27} + \frac{100}{4081}\sqrt{2}e^{45}$	$(-\frac{50}{583}, \frac{50}{371}, \frac{100}{371}, \frac{375}{4081}, \frac{375}{4081}, -\frac{1600}{4081}, \frac{200}{4081}, -\frac{150}{4081}, \frac{750}{4081})$ $+\frac{50}{4081}\sqrt{1747}e^3 \otimes e_8 + \frac{50}{4081}\sqrt{1967}e^1 \otimes e_6$	{1347, 34569, 369}
932:8	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383}e^{12}, \frac{2}{311}\sqrt{23746}e^{17},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{3}{311}\sqrt{1915}e^{27} + \frac{1}{311}\sqrt{30257}e^{45}$	$(-\frac{60}{311}, \frac{48}{311}, \frac{96}{311}, \frac{18}{311}, \frac{18}{311}, 1, -\frac{12}{311}, -\frac{72}{311}, \frac{36}{311})$ $+\frac{13}{311}\sqrt{1149}e^6 \otimes e_8$	{12458, 128, 14567, 167, 24789, 469}
932:8	$0, 0, 0, 0, 0, 0, \frac{50}{4549}\sqrt{583}e^{12}, \frac{275}{4549}\sqrt{34}e^{17},$ $\frac{25}{4549}\sqrt{2362}e^{13} + \frac{50}{4549}\sqrt{299}e^{27} + \frac{50}{4549}\sqrt{734}e^{45}$	$(\frac{275}{4549}, -\frac{175}{4549}, -\frac{350}{4549}, \frac{1000}{4549}, \frac{1075}{4549}, \frac{550}{4549}, \frac{100}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+\frac{125}{4549}\sqrt{166}e^4 \otimes e_8 + \frac{25}{4549}\sqrt{314}e^6 \otimes e_9 + \frac{50}{4549}\sqrt{962}e^1 \otimes e_3$	{1268, 14567}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{381}\sqrt{9570}e^{12}, \frac{4}{127}\sqrt{290}e^{17},$ $\frac{2}{381}\sqrt{7395}e^{13} + \frac{2}{127}\sqrt{290}e^{27} + \frac{14}{381}\sqrt{174}e^{45}$	$(\frac{100}{381}, -\frac{37}{381}, -\frac{74}{381}, \frac{27}{127}, -\frac{55}{381}, -\frac{31}{127}, \frac{21}{127}, \frac{163}{381}, \frac{26}{381})$ $+\frac{2}{381}\sqrt{17574}e^1 \otimes e_3 + \frac{4}{381}\sqrt{2958}e^4 \otimes e_6$	{12458, 1268, 1457, 167}
932:8	$0, 0, 0, 0, 0, 0, \frac{16}{1005}\sqrt{383}e^{12}, \frac{4}{1005}\sqrt{23746}e^{17},$ $\frac{2}{1005}\sqrt{29491}e^{13} + \frac{16}{335}\sqrt{1915}e^{27} + \frac{4}{1005}\sqrt{30257}e^{45}$	$(-\frac{8}{67}, \frac{32}{335}, \frac{64}{335}, \frac{419}{1005}, -\frac{347}{1005}, \frac{622}{1005}, -\frac{8}{335}, -\frac{48}{335}, \frac{24}{335})$ $+\frac{2}{1005}\sqrt{1149}e^6 \otimes e_8 + \frac{766}{1005}e^4 \otimes e_5$	{24789, 25789, 469, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:8	$0, 0, 0, 0, 0, 0, \frac{11}{269}\sqrt{33}e^{12}, \frac{11}{1345}\sqrt{997}e^{17},$ $\frac{11}{1345}\sqrt{731}e^{13} + \frac{11}{1345}\sqrt{69}e^{27} + \frac{11}{1345}\sqrt{653}e^{45}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{1345}, -\frac{44}{269}, \frac{253}{1345}, -\frac{143}{1345}, \frac{11}{269}, \frac{132}{1345}, \frac{33}{1345})$ $+ \frac{11}{1345}\sqrt{499}e^2 \otimes e_6 + \frac{11}{1345}\sqrt{946}e^5 \otimes e_8 + \frac{22}{1345}\sqrt{258}e^1 \otimes e_3$	{128, 14567}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{102}\sqrt{2282}e^{12}, \frac{1}{51}\sqrt{489}e^{17},$ $\frac{1}{102}\sqrt{163}e^{13} + \frac{1}{102}\sqrt{978}e^{27} + \frac{1}{51}\sqrt{489}e^{45}$	$(\frac{4}{51}, \frac{7}{68}, \frac{7}{34}, \frac{16}{17}, -\frac{67}{102}, \frac{41}{204}, \frac{37}{204}, \frac{53}{204}, \frac{29}{102})$ $+ \frac{163}{102}e^4 \otimes e_5$	{1234689, 123489, 1235689, 123589, 134679, 13479, 135679, 13579}
932:8	$0, 0, 0, 0, 0, 0, \frac{40}{1103}\sqrt{15}e^{12}, \frac{20}{1103}\sqrt{110}e^{17},$ $\frac{30}{1103}\sqrt{31}e^{13} + \frac{10}{1103}\sqrt{159}e^{27} + \frac{140}{1103}\sqrt{2}e^{45}$	$(\frac{40}{1103}, -\frac{5}{1103}, \frac{10}{1103}, -\frac{95}{1103}, \frac{125}{1103}, -\frac{145}{1103}, \frac{35}{1103}, \frac{75}{1103}, \frac{30}{1103})$ $+ \frac{10}{1103}\sqrt{221}e^4 \otimes e_6 + \frac{10}{1103}\sqrt{365}e^1 \otimes e_3 + \frac{210}{1103}e^5 \otimes e_8$	{1268, 1457}
932:8	$0, 0, 0, 0, 0, 0, \frac{50}{2353}\sqrt{110}e^{12}, \frac{25}{2353}\sqrt{1230}e^{17},$ $\frac{25}{181}\sqrt{6}e^{13} + \frac{25}{2353}\sqrt{623}e^{27} + \frac{50}{2353}\sqrt{2}e^{45}$	$(-\frac{175}{2353}, \frac{275}{2353}, \frac{550}{2353}, -\frac{125}{2353}, \frac{500}{2353}, -\frac{800}{2353}, \frac{100}{2353}, -\frac{75}{2353}, \frac{375}{2353})$ $+ \frac{25}{2353}\sqrt{1747}e^3 \otimes e_8 + \frac{25}{2353}\sqrt{1967}e^1 \otimes e_6 + \frac{625}{2353}e^5 \otimes e_4$	{1347, 1357}
932:8	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{1358}e^{12}, \frac{2}{77}\sqrt{291}e^{17},$ $\frac{1}{77}\sqrt{6402}e^{13} + \frac{1}{77}\sqrt{582}e^{27} + \frac{2}{77}\sqrt{291}e^{45}$	$(-\frac{8}{77}, \frac{2}{7}, \frac{4}{7}, \frac{18}{77}, \frac{18}{77}, -\frac{53}{77}, \frac{2}{11}, \frac{6}{77}, \frac{36}{77})$ $+ \frac{1}{77}\sqrt{12610}e^3 \otimes e_6$	{12456789, 126789, 14569, 169, 2468, 467}
932:8	$0, 0, 0, 0, 0, 0, \frac{174}{3289}\sqrt{23}e^{12}, \frac{232}{3289}\sqrt{14}e^{17},$ $\frac{464}{3289}\sqrt{15}e^{13} + \frac{116}{3289}\sqrt{35}e^{27} + \frac{348}{3289}\sqrt{7}e^{45}$	$(-\frac{58}{299}, \frac{406}{3289}, \frac{812}{3289}, \frac{87}{3289}, \frac{87}{3289}, \frac{1856}{3289}, \frac{232}{3289}, -\frac{870}{3289}, \frac{174}{3289})$ $+ \frac{58}{3289}\sqrt{1433}e^3 \otimes e_8 + \frac{58}{3289}\sqrt{1517}e^6 \otimes e_9$	{1234567, 12367, 2349}
932:8	$0, 0, 0, 0, 0, 0, \frac{10}{4053}\sqrt{9430}e^{12}, \frac{40}{4053}\sqrt{1955}e^{17},$ $\frac{10}{4053}\sqrt{19987}e^{13} + \frac{20}{4053}\sqrt{3818}e^{27} + \frac{10}{579}\sqrt{874}e^{45}$	$(-\frac{180}{1351}, \frac{205}{1351}, \frac{410}{1351}, \frac{5}{4053}, \frac{685}{4053}, -\frac{1145}{4053}, \frac{25}{1351}, -\frac{155}{1351}, \frac{230}{1351})$ $+ \frac{10}{4053}\sqrt{34638}e^4 \otimes e_6 + \frac{10}{4053}\sqrt{50278}e^5 \otimes e_8$	{1268, 1457, 24789, 569}
932:8	$0, 0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{506}e^{12}, \frac{50}{2209}\sqrt{462}e^{17},$ $\frac{550}{2209}e^{13} + \frac{100}{2209}\sqrt{33}e^{27} + \frac{50}{2209}\sqrt{3}e^{45}$	$(\frac{550}{2209}, -\frac{350}{2209}, -\frac{700}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, \frac{1100}{2209}, \frac{200}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{100}{2209}\sqrt{203}e^6 \otimes e_9 + \frac{50}{2209}\sqrt{1109}e^1 \otimes e_3$	{2345678, 23678, 3456, 36}
932:8	$0, 0, 0, 0, 0, 0, \frac{2}{1311}\sqrt{20545}e^{12}, \frac{1}{1311}\sqrt{358070}e^{17},$ $\frac{1}{1311}\sqrt{71614}e^{13} + \frac{2}{1311}\sqrt{7631}e^{27} + \frac{2}{1311}\sqrt{136771}e^{45}$	$(-\frac{55}{437}, \frac{35}{437}, \frac{70}{437}, \frac{362}{1311}, -\frac{317}{1311}, \frac{632}{1311}, -\frac{20}{437}, \frac{75}{437}, \frac{15}{437})$ $+ \frac{1}{1311}\sqrt{567042}e^6 \otimes e_9 + \frac{1}{1311}\sqrt{797146}e^4 \otimes e_8$	{1268, 14567, 25789, 49}
932:8	$0, 0, 0, 0, 0, 0, \frac{4}{3741}\sqrt{17626}e^{12}, \frac{4}{3741}\sqrt{76799}e^{17},$ $\frac{8}{3741}\sqrt{46583}e^{13} + \frac{4}{3741}\sqrt{177519}e^{27} + \frac{4}{3741}\sqrt{556478}e^{45}$	$(\frac{44}{1247}, -\frac{28}{1247}, -\frac{56}{1247}, \frac{1241}{3741}, -\frac{1277}{3741}, \frac{2482}{3741}, \frac{16}{1247}, \frac{60}{1247}, -\frac{12}{1247})$ $+ \frac{14}{3741}\sqrt{52878}e^6 \otimes e_9 + \frac{2518}{3741}e^4 \otimes e_5$	{23489, 23589, 3479, 3579}
932:8	$0, 0, 0, 0, 0, 0, \frac{24}{709}\sqrt{53}e^{12}, \frac{4}{709}\sqrt{11289}e^{17},$ $\frac{8}{709}\sqrt{318}e^{13} + \frac{212}{709}\sqrt{2}e^{27} + \frac{4}{709}\sqrt{11289}e^{45}$	$(-\frac{141}{709}, \frac{154}{709}, \frac{308}{709}, \frac{296}{709}, -\frac{129}{709}, -\frac{116}{709}, \frac{13}{709}, -\frac{128}{709}, \frac{167}{709})$ $+ \frac{20}{709}\sqrt{901}e^4 \otimes e_8 + \frac{40}{709}\sqrt{106}e^3 \otimes e_6$	{1268, 14567, 256789, 469}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{2}e^{12}, \frac{4}{9}\sqrt{3}e^{13} + \frac{4}{9}e^{27},$ $\frac{2}{9}\sqrt{6}e^{17} + \frac{2}{9}\sqrt{10}e^{45}$	$(-\frac{5}{18}, \frac{1}{3}, \frac{2}{3}, -\frac{1}{9}, -\frac{1}{9}, \frac{1}{6}, \frac{1}{18}, \frac{7}{18}, -\frac{2}{9})$ $+ \frac{2}{9}\sqrt{30}e^3 \otimes e_9$	{14689, 1489, 4679, 479}
932:9	$0, 0, 0, 0, 0, 0, \frac{26}{269}\sqrt{29}e^{12}, \frac{26}{269}e^{13} + \frac{39}{269}\sqrt{6}e^{27},$ $\frac{13}{269}\sqrt{102}e^{17} + \frac{26}{269}\sqrt{3}e^{45}$	$(\frac{65}{269}, -\frac{52}{269}, -\frac{104}{269}, \frac{39}{269}, \frac{39}{269}, \frac{130}{269}, \frac{13}{269}, -\frac{39}{269}, \frac{78}{269})$ $+ \frac{13}{269}\sqrt{194}e^6 \otimes e_8 + \frac{13}{269}\sqrt{278}e^1 \otimes e_3$	{2345679, 23679, 346}
932:9	$0, 0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{385}e^{12}, \frac{550}{2209}e^{13} + \frac{50}{2209}\sqrt{341}e^{27},$ $\frac{100}{2209}\sqrt{33}e^{17} + \frac{550}{2209}\sqrt{3}e^{45}$	$(-\frac{350}{2209}, \frac{550}{2209}, \frac{1100}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, -\frac{700}{2209}, \frac{200}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{100}{2209}\sqrt{247}e^2 \otimes e_6 + \frac{50}{2209}\sqrt{933}e^3 \otimes e_9$	{12489, 2479}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{4253}\sqrt{337634}e^{12}, \frac{6}{4253}\sqrt{193402}e^{13} + \frac{6}{4253}\sqrt{22946}e^{27},$ $\frac{8}{4253}\sqrt{24585}e^{17} + \frac{4}{4253}\sqrt{93423}e^{45}$	$(-\frac{172}{4253}, \frac{776}{4253}, \frac{1552}{4253}, \frac{1855}{4253}, -\frac{1423}{4253}, \frac{1726}{4253}, \frac{604}{4253}, \frac{1380}{4253}, \frac{432}{4253})$ $+ \frac{2}{4253}\sqrt{3556630}e^3 \otimes e_6 + \frac{3278}{4253}e^4 \otimes e_5$	{1246789, 1256789, 2469, 2569}
932:9	$0, 0, 0, 0, 0, 0, \frac{42}{229}\sqrt{2}e^{12}, \frac{14}{229}\sqrt{78}e^{13} + \frac{14}{229}\sqrt{14}e^{27},$ $\frac{14}{229}e^{17} + \frac{42}{229}\sqrt{5}e^{45}$	$(-\frac{35}{229}, \frac{28}{229}, \frac{56}{229}, -\frac{21}{229}, -\frac{21}{229}, \frac{119}{229}, -\frac{7}{229}, \frac{21}{229}, -\frac{42}{229})$ $+ \frac{14}{229}\sqrt{110}e^3 \otimes e_9 + \frac{14}{229}\sqrt{95}e^6 \otimes e_8$	{13456, 136, 34578, 378}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{10}e^{12}, \frac{2}{9}\sqrt{6}e^{13} + \frac{4}{9}e^{27},$ $\frac{4}{9}\sqrt{3}e^{17} + \frac{2}{9}\sqrt{2}e^{45}$	$(\frac{2}{9}, 0, 0, \frac{2}{9}, \frac{2}{9}, -\frac{2}{3}, \frac{2}{9}, \frac{2}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30}e^1 \otimes e_6$	{123459, 1239, 1347, 23456789, 236789, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:9	$0, 0, 0, 0, 0, 0, \frac{24}{3839}\sqrt{1430}e^{12}, \frac{8}{3839}\sqrt{49530}e^{13} + \frac{20}{3839}\sqrt{3562}e^{27},$ $\frac{8}{3839}\sqrt{33215}e^{17} + \frac{4}{3839}\sqrt{155090}e^{45}$	$(\frac{230}{3839}, \frac{47}{3839}, \frac{94}{3839}, \frac{124}{349}, -\frac{857}{3839}, -\frac{86}{349}, \frac{277}{3839}, \frac{324}{3839}, \frac{507}{3839})$ $+ \frac{4}{3839}\sqrt{288730}e^4 \otimes e_8 + \frac{8}{3839}\sqrt{41665}e^3 \otimes e_6$	{123479, 1345, 23589, 378}
932:9	$0, 0, 0, 0, 0, 0, \frac{23}{2077}\sqrt{1501}e^{12}, \frac{23}{2077}\sqrt{878}e^{13} + \frac{23}{2077}\sqrt{683}e^{27},$ $\frac{69}{2077}\sqrt{87}e^{17} + \frac{115}{2077}\sqrt{6}e^{45}$	$(\frac{299}{2077}, -\frac{115}{2077}, -\frac{230}{2077}, -\frac{23}{2077}, \frac{506}{2077}, -\frac{644}{2077}, \frac{184}{2077}, \frac{69}{2077}, \frac{483}{2077})$ $+ \frac{23}{2077}\sqrt{1621}e^2 \otimes e_6 + \frac{23}{2077}\sqrt{1671}e^1 \otimes e_3 + \frac{529}{2077}e^5 \otimes e_4$	{346, 356}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{129}\sqrt{178}e^{12}, \frac{1}{129}\sqrt{4717}e^{13} + \frac{7}{129}\sqrt{89}e^{27},$ $\frac{1}{129}\sqrt{2759}e^{17} + \frac{2}{129}\sqrt{445}e^{45}$	$(\frac{5}{86}, -\frac{2}{43}, -\frac{4}{43}, \frac{49}{129}, -\frac{40}{129}, \frac{169}{258}, \frac{1}{86}, -\frac{3}{86}, \frac{3}{43})$ $+ \frac{2}{129}\sqrt{3115}e^6 \otimes e_8 + \frac{89}{129}e^4 \otimes e_5$	{1234679, 1235679, 23489, 23589}
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{1501}\sqrt{147498}e^{12}, \frac{4}{1501}\sqrt{8866}e^{13} + \frac{4}{1501}\sqrt{27807}e^{27},$ $\frac{1}{1501}\sqrt{266786}e^{17} + \frac{1}{1501}\sqrt{339326}e^{45}$	$(\frac{128}{1501}, -\frac{10}{1501}, -\frac{20}{1501}, \frac{511}{1501}, -\frac{265}{1501}, -\frac{413}{1501}, \frac{118}{1501}, \frac{108}{1501}, \frac{246}{1501})$ $+ \frac{1}{1501}\sqrt{458614}e^2 \otimes e_6 + \frac{4}{1501}\sqrt{39091}e^4 \otimes e_8$	{128, 156789, 2457, 469}
932:9	$0, 0, 0, 0, 0, 0, \frac{46}{3625}\sqrt{1501}e^{12}, \frac{46}{3625}\sqrt{878}e^{13} + \frac{46}{3625}\sqrt{683}e^{27},$ $\frac{138}{3625}\sqrt{87}e^{17} + \frac{46}{725}\sqrt{6}e^{45}$	$(\frac{598}{3625}, -\frac{46}{725}, -\frac{92}{725}, \frac{483}{3625}, \frac{483}{3625}, -\frac{1288}{3625}, \frac{368}{3625}, \frac{138}{3625}, \frac{966}{3625})$ $+ \frac{46}{3625}\sqrt{1621}e^2 \otimes e_6 + \frac{46}{3625}\sqrt{1671}e^1 \otimes e_3$	{234579, 2379, 346}
932:9	$0, 0, 0, 0, 0, 0, \frac{4}{4185}\sqrt{29013}e^{12}, \frac{2}{4185}\sqrt{543103}e^{13} + \frac{2}{4185}\sqrt{485077}e^{27},$ $\frac{2}{4185}\sqrt{578733}e^{17} + \frac{2}{4185}\sqrt{902966}e^{45}$	$(\frac{227}{1395}, -\frac{38}{465}, -\frac{76}{465}, \frac{1}{837}, \frac{203}{837}, -\frac{1013}{4185}, \frac{113}{1395}, -\frac{1}{1395}, \frac{68}{279})$ $+ \frac{2}{4185}\sqrt{1224654}e^5 \otimes e_8 + \frac{4}{4185}\sqrt{177641}e^4 \otimes e_6$	{1235679, 1345, 23489, 3678}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{57}\sqrt{21}e^{12}, \frac{1}{57}\sqrt{518}e^{13} + \frac{2}{57}\sqrt{119}e^{27},$ $\frac{7}{57}\sqrt{6}e^{17} + \frac{8}{57}\sqrt{14}e^{45}$	$(\frac{1}{19}, -\frac{1}{19}, -\frac{2}{19}, \frac{6}{19}, -\frac{5}{19}, \frac{8}{19}, 0, -\frac{1}{19}, \frac{1}{19})$ $+ \frac{1}{19}\sqrt{154}e^4 \otimes e_8 + \frac{1}{57}\sqrt{742}e^6 \otimes e_9$	{123479, 13456, 23589, 3678}
932:9	$0, 0, 0, 0, 0, 0, \frac{3}{91}\sqrt{30}e^{12}, \frac{2}{91}\sqrt{30}e^{13} + \frac{5}{91}\sqrt{22}e^{27},$ $\frac{1}{91}\sqrt{110}e^{17} + \frac{1}{91}\sqrt{590}e^{45}$	$(-\frac{5}{91}, \frac{11}{182}, \frac{11}{91}, -\frac{41}{182}, \frac{16}{91}, \frac{1}{91}, \frac{1}{182}, \frac{6}{91}, -\frac{9}{182})$ $+ \frac{1}{91}\sqrt{730}e^5 \otimes e_8 + \frac{4}{91}\sqrt{10}e^3 \otimes e_6 + \frac{5}{91}\sqrt{30}e^2 \otimes e_9$	{1268, 146789, 24567, 569}
932:9	$0, 0, 0, 0, 0, 0, \frac{3}{91}\sqrt{30}e^{12}, \frac{2}{91}\sqrt{30}e^{13} + \frac{5}{91}\sqrt{22}e^{27},$ $\frac{1}{91}\sqrt{110}e^{17} + \frac{1}{91}\sqrt{590}e^{45}$	$(-\frac{5}{91}, \frac{11}{182}, \frac{11}{91}, -\frac{41}{182}, \frac{16}{91}, \frac{1}{91}, \frac{1}{182}, \frac{6}{91}, -\frac{9}{182})$ $+ \frac{1}{91}\sqrt{730}e^5 \otimes e_8 + \frac{4}{91}\sqrt{10}e^3 \otimes e_6 - \frac{5}{91}\sqrt{30}e^2 \otimes e_9$	{1268, 146789, 24567, 569}
932:9	$0, 0, 0, 0, 0, 0, \frac{4}{3757}\sqrt{301081}e^{12}, \frac{202}{3757}\sqrt{66}e^{13} + \frac{16}{3757}\sqrt{1111}e^{27},$ $\frac{1}{3757}\sqrt{1326534}e^{17} + \frac{1}{3757}\sqrt{295526}e^{45}$	$(\frac{974}{3757}, -\frac{48}{289}, -\frac{96}{289}, \frac{1773}{3757}, -\frac{449}{3757}, \frac{396}{3757}, \frac{350}{3757}, -\frac{274}{3757}, \frac{1324}{3757})$ $+ \frac{2222}{3757}e^4 \otimes e_5 + \frac{30}{3757}\sqrt{11110}e^1 \otimes e_3$	{1467, 147, 1567, 157}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{13}\sqrt{10}e^{12}, \frac{2}{13}\sqrt{6}e^{13} + \frac{4}{13}e^{27},$ $\frac{4}{13}\sqrt{3}e^{17} + \frac{2}{13}\sqrt{2}e^{45}$	$(\frac{2}{13}, 0, 0, \frac{6}{13}, -\frac{2}{13}, -\frac{6}{13}, \frac{2}{13}, \frac{2}{13}, \frac{4}{13})$ $+ \frac{2}{13}\sqrt{30}e^1 \otimes e_6 + \frac{8}{13}e^4 \otimes e_5$	{1347, 1357, 3468, 3568}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{3917}\sqrt{1290442}e^{12}, \frac{8}{3917}\sqrt{40985}e^{13} + \frac{8}{3917}\sqrt{83141}e^{27},$ $\frac{2}{3917}\sqrt{119442}e^{17} + \frac{2}{3917}\sqrt{217806}e^{45}$	$(\frac{16}{3917}, \frac{508}{3917}, \frac{1016}{3917}, \frac{1441}{3917}, -\frac{901}{3917}, -\frac{1834}{3917}, \frac{524}{3917}, \frac{1032}{3917}, \frac{540}{3917})$ $+ \frac{2342}{3917}e^4 \otimes e_5 + \frac{2}{3917}\sqrt{2681590}e^2 \otimes e_6$	{1346789, 1356789, 3469, 3569}
932:9	$0, 0, 0, 0, 0, 0, \frac{4}{159}\sqrt{114}e^{12}, \frac{8}{159}\sqrt{19}e^{13} + \frac{4}{159}\sqrt{19}e^{27},$ $\frac{4}{159}\sqrt{399}e^{17} + \frac{2}{159}\sqrt{1406}e^{45}$	$(-\frac{4}{53}, \frac{4}{53}, \frac{8}{53}, \frac{17}{53}, -\frac{21}{53}, \frac{34}{53}, 0, \frac{4}{53}, -\frac{4}{53})$ $+ \frac{10}{159}\sqrt{190}e^6 \otimes e_9 + \frac{38}{53}e^4 \otimes e_5$	{1249, 1259, 24789, 25789}
932:9	$0, 0, 0, 0, 0, 0, \frac{52}{707}\sqrt{29}e^{12}, \frac{52}{707}e^{13} + \frac{78}{707}\sqrt{6}e^{27},$ $\frac{26}{707}\sqrt{102}e^{17} + \frac{32}{707}\sqrt{3}e^{45}$	$(\frac{130}{707}, -\frac{104}{707}, -\frac{208}{707}, \frac{247}{707}, -\frac{13}{707}, \frac{260}{707}, \frac{26}{707}, -\frac{78}{707}, \frac{156}{707})$ $+ \frac{26}{707}\sqrt{194}e^6 \otimes e_8 + \frac{26}{707}\sqrt{278}e^1 \otimes e_3 + \frac{338}{707}e^4 \otimes e_5$	{346, 356}
932:9	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178}e^{12}, \frac{2}{169}\sqrt{4717}e^{13} + \frac{14}{169}\sqrt{89}e^{27},$ $\frac{2}{169}\sqrt{2759}e^{17} + \frac{4}{169}\sqrt{445}e^{45}$	$(\frac{15}{169}, -\frac{12}{169}, -\frac{24}{169}, \frac{9}{169}, \frac{9}{169}, 1, \frac{3}{169}, -\frac{9}{169}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115}e^6 \otimes e_8$	{1234679, 13456, 136, 23489, 34578, 378}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{15}e^{12}, \frac{1}{29}\sqrt{14}e^{13} + \frac{2}{29}\sqrt{11}e^{27},$ $\frac{1}{29}\sqrt{66}e^{17} + \frac{2}{29}\sqrt{26}e^{45}$	$(\frac{3}{29}, -\frac{3}{29}, -\frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{12}{29}, 0, -\frac{3}{29}, \frac{3}{29})$ $+ \frac{12}{29}e^1 \otimes e_3 + \frac{1}{29}\sqrt{166}e^6 \otimes e_9 + \frac{9}{29}\sqrt{2}e^4 \otimes e_8$	{12589, 1678}
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{1373}\sqrt{1290442}e^{12}, \frac{4}{1373}\sqrt{40985}e^{13} + \frac{4}{1373}\sqrt{83141}e^{27},$ $\frac{1}{1373}\sqrt{119442}e^{17} + \frac{1}{1373}\sqrt{217806}e^{45}$	$(\frac{8}{1373}, \frac{254}{1373}, \frac{508}{1373}, \frac{135}{1373}, \frac{135}{1373}, -\frac{917}{1373}, \frac{262}{1373}, \frac{516}{1373}, \frac{270}{1373})$ $+ \frac{1}{1373}\sqrt{2681590}e^2 \otimes e_6$	{123458, 1238, 1346789, 23457, 237, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{231}\sqrt{30}e^{12}, \frac{2}{231}\sqrt{894}e^{13} + \frac{4}{77}\sqrt{3}e^{27},$ $\frac{4}{231}\sqrt{3}e^{17} + \frac{2}{21}\sqrt{6}e^{45}$	$(-\frac{2}{77}, \frac{4}{77}, \frac{8}{77}, -\frac{2}{11}, \frac{2}{11}, -\frac{10}{77}, \frac{2}{77}, \frac{6}{77}, 0)$ $+ \frac{16}{231}\sqrt{15}e^3 \otimes e_9 + \frac{8}{231}\sqrt{582}e^1 \otimes e_6 + \frac{2}{77}\sqrt{7}e^5 \otimes e_8$	{123457, 2368}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{1323}\sqrt{301081}e^{12}, \frac{101}{1323}\sqrt{66}e^{13} + \frac{8}{1323}\sqrt{1111}e^{27},$ $\frac{1}{1323}\sqrt{1326534}e^{17} + \frac{1}{1323}\sqrt{295526}e^{45}$	$(\frac{487}{1323}, -\frac{104}{441}, -\frac{208}{441}, \frac{331}{1323}, \frac{331}{1323}, \frac{147}{147}, \frac{25}{189}, -\frac{137}{1323}, \frac{662}{1323})$ $+ \frac{5}{441}\sqrt{11110}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 1467, 147}
932:9	$0, 0, 0, 0, 0, 0, \frac{25}{1417}\sqrt{385}e^{12}, \frac{275}{1417}e^{13} + \frac{25}{1417}\sqrt{341}e^{27},$ $\frac{50}{1417}\sqrt{33}e^{17} + \frac{275}{1417}\sqrt{3}e^{45}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{933}e^3 \otimes e_9 + \frac{50}{1417}\sqrt{247}e^2 \otimes e_6 - \frac{625}{1417}e^5 \otimes e_4$	{12489, 12589, 2479, 2579}
932:9	$0, 0, 0, 0, 0, 0, \frac{25}{1417}\sqrt{385}e^{12}, \frac{275}{1417}e^{13} + \frac{25}{1417}\sqrt{341}e^{27},$ $\frac{50}{1417}\sqrt{33}e^{17} + \frac{275}{1417}\sqrt{3}e^{45}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{933}e^3 \otimes e_9 + \frac{50}{1417}\sqrt{247}e^2 \otimes e_6 + \frac{625}{1417}e^5 \otimes e_4$	{12489, 12589, 2479, 2579}
932:9	$0, 0, 0, 0, 0, 0, \frac{25}{4549}\sqrt{30}e^{12}, \frac{25}{4549}\sqrt{2362}e^{13} + \frac{50}{4549}\sqrt{438}e^{27},$ $\frac{50}{4549}\sqrt{299}e^{17} + \frac{50}{4549}\sqrt{734}e^{45}$	$(-\frac{175}{4549}, \frac{275}{4549}, \frac{550}{4549}, -\frac{1075}{4549}, \frac{1000}{4549}, -\frac{350}{4549}, \frac{100}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+ \frac{125}{4549}\sqrt{166}e^5 \otimes e_8 + \frac{25}{4549}\sqrt{1486}e^2 \otimes e_6 + \frac{50}{4549}\sqrt{669}e^3 \otimes e_9$	{13456, 3678}
932:9	$0, 0, 0, 0, 0, 0, \frac{8}{3673}\sqrt{6573}e^{12}, \frac{6}{3673}\sqrt{46637}e^{13} + \frac{2}{3673}\sqrt{141789}e^{27},$ $\frac{2}{3673}\sqrt{146171}e^{17} + \frac{4}{3673}\sqrt{107985}e^{45}$	$(-\frac{205}{3673}, \frac{216}{3673}, \frac{432}{3673}, \frac{853}{3673}, -\frac{1047}{3673}, \frac{333}{3673}, \frac{11}{3673}, \frac{227}{3673}, -\frac{194}{3673})$ $+ \frac{20}{3673}\sqrt{5947}e^4 \otimes e_8 + \frac{24}{3673}\sqrt{3130}e^3 \otimes e_9$	{1345, 13456, 3678, 378}
932:9	$0, 0, 0, 0, 0, 0, \frac{8}{1039}\sqrt{1155}e^{12}, \frac{24}{1039}\sqrt{385}e^{13} + \frac{28}{1039}\sqrt{330}e^{27},$ $\frac{40}{1039}\sqrt{77}e^{17} + \frac{12}{1039}\sqrt{2310}e^{45}$	$(\frac{242}{1039}, -\frac{159}{1039}, -\frac{318}{1039}, \frac{484}{1039}, -\frac{159}{1039}, \frac{138}{1039}, \frac{83}{1039}, -\frac{76}{1039}, \frac{325}{1039})$ $+ \frac{4}{1039}\sqrt{45010}e^4 \otimes e_8 + \frac{8}{1039}\sqrt{4515}e^1 \otimes e_3$	{1268, 128, 156789, 15789}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{114}e^{12}, \frac{4}{51}\sqrt{19}e^{13} + \frac{2}{51}\sqrt{19}e^{27},$ $\frac{2}{51}\sqrt{399}e^{17} + \frac{1}{51}\sqrt{1406}e^{45}$	$(-\frac{2}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{1}{17}, -\frac{1}{17}, 1, 0, \frac{2}{17}, -\frac{2}{17})$ $+ \frac{5}{51}\sqrt{190}e^6 \otimes e_9$	{1249, 14567, 167, 24789, 4568, 68}
932:9	$0, 0, 0, 0, 0, 0, \frac{8}{679}\sqrt{597}e^{12}, \frac{18}{679}\sqrt{597}e^{13} + \frac{2}{679}\sqrt{43581}e^{27},$ $\frac{2}{679}\sqrt{43979}e^{17} + \frac{20}{679}\sqrt{597}e^{45}$	$(\frac{125}{679}, -\frac{72}{679}, -\frac{144}{679}, \frac{379}{679}, -\frac{201}{679}, \frac{99}{679}, \frac{53}{679}, -\frac{19}{679}, \frac{178}{679})$ $+ \frac{4}{679}\sqrt{28855}e^4 \otimes e_8$	{1234679, 123479, 1345, 13456, 235689, 23589, 3678, 378}
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{29}\sqrt{114}e^{12}, \frac{2}{29}\sqrt{19}e^{13} + \frac{1}{29}\sqrt{19}e^{27},$ $\frac{1}{29}\sqrt{174}e^{17} + \frac{1}{29}\sqrt{14}e^{45}$	$(\frac{3}{29}, -\frac{3}{29}, -\frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{12}{29}, 0, -\frac{3}{29}, \frac{3}{29})$ $+ \frac{15}{29}e^1 \otimes e_3 + \frac{5}{29}\sqrt{7}e^6 \otimes e_9 + \frac{9}{29}e^4 \otimes e_5$	{1249, 1259}
932:9	$0, 0, 0, 0, 0, 0, \frac{33}{2317}\sqrt{39}e^{12}, \frac{11}{2317}\sqrt{1374}e^{13} + \frac{11}{2317}\sqrt{518}e^{27},$ $\frac{11}{2317}\sqrt{658}e^{17} + \frac{66}{331}e^{45}$	$(-\frac{22}{2317}, \frac{11}{331}, \frac{22}{331}, -\frac{220}{2317}, \frac{253}{2317}, -\frac{341}{2317}, \frac{55}{2317}, \frac{132}{2317}, \frac{33}{2317})$ $+ \frac{11}{2317}\sqrt{1003}e^4 \otimes e_6 + \frac{11}{2317}\sqrt{1361}e^3 \otimes e_9 + \frac{11}{2317}\sqrt{1949}e^5 \otimes e_8$	{1345, 3678}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{13}\sqrt{2}e^{12}, \frac{4}{13}\sqrt{3}e^{13} + \frac{4}{13}e^{27},$ $\frac{2}{13}\sqrt{6}e^{17} + \frac{2}{13}\sqrt{10}e^{45}$	$(-\frac{5}{26}, \frac{3}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{5}{13}, \frac{3}{26}, \frac{1}{26}, \frac{7}{26}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 + \frac{8}{13}e^4 \otimes e_5$	{14689, 1489, 15689, 1589, 4679, 479, 5679, 579}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{13}\sqrt{2}e^{12}, \frac{4}{13}\sqrt{3}e^{13} + \frac{4}{13}e^{27},$ $\frac{2}{13}\sqrt{6}e^{17} + \frac{2}{13}\sqrt{10}e^{45}$	$(-\frac{5}{26}, \frac{3}{13}, \frac{6}{13}, \frac{3}{13}, -\frac{5}{13}, \frac{3}{26}, \frac{1}{26}, \frac{7}{26}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 - \frac{8}{13}e^4 \otimes e_5$	{14689, 1489, 15689, 1589, 4679, 479, 5679, 579}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{214}e^{12}, \frac{1}{67}\sqrt{321}e^{13} + \frac{1}{67}\sqrt{749}e^{27},$ $\frac{1}{67}\sqrt{321}e^{17} + \frac{2}{67}\sqrt{214}e^{45}$	$(\frac{13}{134}, \frac{6}{67}, \frac{12}{67}, \frac{63}{67}, -\frac{44}{67}, \frac{27}{134}, \frac{25}{134}, \frac{37}{67}, \frac{19}{67})$ $+ \frac{107}{67}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 24679, 2479, 25679, 2579}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{462}e^{12}, \frac{2}{455}\sqrt{77}e^{13} + \frac{2}{455}\sqrt{903}e^{27},$ $\frac{2}{455}\sqrt{217}e^{17} + \frac{18}{455}\sqrt{14}e^{45}$	$(-\frac{1}{65}, \frac{2}{65}, \frac{4}{65}, -\frac{1}{13}, \frac{1}{13}, -\frac{7}{65}, \frac{1}{65}, \frac{3}{65}, 0)$ $+ \frac{2}{455}\sqrt{1106}e^5 \otimes e_8 - \frac{2}{455}\sqrt{1190}e^2 \otimes e_9 + \frac{4}{455}\sqrt{154}e^4 \otimes e_6$	{1268, 14789, 2457, 569}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{462}e^{12}, \frac{2}{455}\sqrt{77}e^{13} + \frac{2}{455}\sqrt{903}e^{27},$ $\frac{2}{455}\sqrt{217}e^{17} + \frac{18}{455}\sqrt{14}e^{45}$	$(-\frac{1}{65}, \frac{2}{65}, \frac{4}{65}, -\frac{1}{13}, \frac{1}{13}, -\frac{7}{65}, \frac{1}{65}, \frac{3}{65}, 0)$ $+ \frac{2}{455}\sqrt{1106}e^5 \otimes e_8 + \frac{2}{455}\sqrt{1190}e^2 \otimes e_9 + \frac{4}{455}\sqrt{154}e^4 \otimes e_6$	{1268, 14789, 2457, 569}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{210}e^{12}, \frac{18}{139}\sqrt{14}e^{13} + \frac{28}{139}\sqrt{3}e^{27},$ $\frac{4}{139}\sqrt{77}e^{17} + \frac{18}{139}\sqrt{966}e^{45}$	$(\frac{26}{139}, -\frac{12}{139}, -\frac{24}{139}, \frac{58}{139}, -\frac{18}{139}, -\frac{30}{139}, \frac{14}{139}, \frac{2}{139}, \frac{40}{139})$ $+ \frac{2}{139}\sqrt{1302}e^1 \otimes e_6 + \frac{8}{139}\sqrt{133}e^4 \otimes e_8$	{128, 15789, 24567, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{738}\sqrt{172966}e^{12}, \frac{1}{738}\sqrt{85605}e^{13} + \frac{1}{738}\sqrt{878}e^{27},$ $\frac{1}{123}\sqrt{4390}e^{17} + \frac{5}{369}\sqrt{439}e^{45}$	$(\frac{107}{369}, -\frac{25}{164}, -\frac{25}{82}, \frac{140}{369}, \frac{71}{1476}, -\frac{53}{246}, \frac{203}{1476}, -\frac{11}{738}, \frac{631}{1476})$ $+ \frac{1}{738}\sqrt{214671}e^4 \otimes e_6 + \frac{2}{369}\sqrt{22389}e^1 \otimes e_3$	{23479, 235679, 345, 36}
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{114}\sqrt{1430}e^{12}, \frac{13}{114}\sqrt{11}e^{13} + \frac{1}{38}\sqrt{286}e^{27},$ $\frac{1}{57}\sqrt{858}e^{17} + \frac{1}{57}\sqrt{3003}e^{45}$	$(\frac{11}{57}, \frac{5}{76}, \frac{5}{38}, \frac{12}{19}, -\frac{41}{228}, -\frac{71}{114}, \frac{59}{228}, \frac{37}{114}, \frac{103}{228})$ $+ \frac{1}{114}\sqrt{26455}e^4 \otimes e_6$	{12458, 1268, 14789, 156789, 2457, 267, 49, 569}
932:9	$0, 0, 0, 0, 0, 0, \frac{69}{2293}\sqrt{122}e^{12}, \frac{23}{2293}\sqrt{134}e^{13} + \frac{46}{2293}\sqrt{318}e^{27},$ $\frac{46}{2293}\sqrt{29}e^{17} + \frac{92}{2293}\sqrt{41}e^{45}$	$(\frac{299}{2293}, -\frac{115}{2293}, \frac{230}{2293}, -\frac{115}{2293}, \frac{598}{2293}, -\frac{644}{2293}, \frac{184}{2293}, \frac{69}{2293}, \frac{483}{2293})$ $+ \frac{23}{2293}\sqrt{1426}e^5 \otimes e_8 + \frac{23}{2293}\sqrt{1714}e^2 \otimes e_6 + \frac{46}{2293}\sqrt{255}e^1 \otimes e_3$	{23457, 3569}
932:9	$0, 0, 0, 0, 0, 0, \frac{46}{2293}\sqrt{154}e^{12}, \frac{46}{2293}\sqrt{395}e^{13} + \frac{46}{2293}\sqrt{318}e^{27},$ $\frac{23}{2293}\sqrt{1830}e^{17} + \frac{23}{2293}\sqrt{2370}e^{45}$	$(\frac{299}{2293}, -\frac{115}{2293}, -\frac{230}{2293}, -\frac{115}{2293}, \frac{598}{2293}, -\frac{644}{2293}, \frac{184}{2293}, \frac{69}{2293}, \frac{483}{2293})$ $+ \frac{23}{2293}\sqrt{1714}e^4 \otimes e_6 + \frac{23}{2293}\sqrt{694}e^1 \otimes e_3 + \frac{46}{2293}\sqrt{785}e^5 \otimes e_8$	{1235679, 1345}
932:9	$0, 0, 0, 0, 0, 0, \frac{1}{1307}\sqrt{337634}e^{12}, \frac{3}{1307}\sqrt{193402}e^{13} + \frac{3}{1307}\sqrt{22946}e^{27},$ $\frac{4}{1307}\sqrt{24585}e^{17} + \frac{2}{1307}\sqrt{93423}e^{45}$	$(-\frac{86}{1307}, \frac{388}{1307}, \frac{776}{1307}, \frac{108}{1307}, \frac{108}{1307}, -\frac{863}{1307}, \frac{302}{1307}, \frac{690}{1307}, \frac{216}{1307})$ $+ \frac{1}{1307}\sqrt{3556630}e^3 \otimes e_6$	{1246789, 14568, 168, 2469, 4567, 67}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{114}e^{12}, \frac{4}{49}\sqrt{19}e^{13} + \frac{2}{49}\sqrt{19}e^{27},$ $\frac{2}{49}\sqrt{174}e^{17} + \frac{2}{49}\sqrt{14}e^{45}$	$(\frac{6}{49}, -\frac{6}{49}, \frac{12}{49}, \frac{3}{49}, \frac{3}{49}, \frac{24}{49}, 0, -\frac{6}{49}, \frac{6}{49})$ $+ \frac{10}{49}\sqrt{7}e^6 \otimes e_9 + \frac{30}{49}e^1 \otimes e_3$	{1249, 14567, 167}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{4185}\sqrt{154214}e^{12}, \frac{2}{4185}\sqrt{866757}e^{13} + \frac{2}{4185}\sqrt{210883}e^{27},$ $\frac{2}{4185}\sqrt{170007}e^{17} + \frac{2}{4185}\sqrt{1239286}e^{45}$	$(-\frac{103}{837}, \frac{92}{465}, \frac{184}{465}, \frac{697}{4185}, -\frac{29}{135}, -\frac{43}{155}, \frac{313}{4185}, \frac{1141}{4185}, -\frac{202}{4185})$ $+ \frac{2}{4185}\sqrt{2001066}e^3 \otimes e_9 + \frac{4}{4185}\sqrt{370671}e^4 \otimes e_6$	{1489, 15689, 479, 5679}
932:9	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{66}e^{13} + \frac{2}{7}e^{27},$ $\frac{1}{21}\sqrt{66}e^{17} + \frac{2}{21}\sqrt{6}e^{45}$	$(-\frac{1}{14}, \frac{1}{7}, \frac{2}{7}, 0, 0, -\frac{5}{14}, \frac{1}{14}, \frac{3}{14}, 0)$ $+ \frac{1}{21}\sqrt{114}e^1 \otimes e_6 + \frac{1}{21}\sqrt{114}e^3 \otimes e_9$	{13457, 137, 34568, 368}
932:10	$0, 0, 0, 0, 0, 0, \frac{2}{383}\sqrt{7930}e^{12}, \frac{4}{383}\sqrt{1830}e^{17},$ $\frac{2}{383}\sqrt{1830}e^{27} + \frac{6}{383}\sqrt{610}e^{34} + \frac{6}{383}\sqrt{610}e^{56}$	$(\frac{28}{383}, \frac{46}{383}, \frac{365}{383}, -\frac{245}{383}, \frac{60}{383}, \frac{60}{383}, \frac{74}{383}, \frac{102}{383}, \frac{120}{383})$ $+ \frac{610}{383}e^3 \otimes e_4$	{123589, 124589, 13579, 14579}
932:10	$0, 0, 0, 0, 0, 0, \frac{28}{4579}\sqrt{957}e^{12}, \frac{28}{4579}\sqrt{1606}e^{17},$ $\frac{28}{4579}\sqrt{239}e^{27} + \frac{28}{4579}\sqrt{1418}e^{34} + \frac{56}{4579}\sqrt{141}e^{56}$	$(\frac{308}{4579}, -\frac{196}{4579}, \frac{812}{4579}, -\frac{896}{4579}, -\frac{42}{4579}, -\frac{42}{4579}, \frac{112}{4579}, \frac{420}{4579}, -\frac{84}{4579})$ $- \frac{252}{4579}\sqrt{29}e^1 \otimes e_9 + \frac{56}{4579}\sqrt{427}e^3 \otimes e_8$	{12568, 128, 134567, 1347, 245789, 359}
932:10	$0, 0, 0, 0, 0, 0, \frac{28}{4579}\sqrt{957}e^{12}, \frac{28}{4579}\sqrt{1606}e^{17},$ $\frac{28}{4579}\sqrt{239}e^{27} + \frac{28}{4579}\sqrt{1418}e^{34} + \frac{56}{4579}\sqrt{141}e^{56}$	$(\frac{308}{4579}, -\frac{196}{4579}, \frac{812}{4579}, -\frac{896}{4579}, -\frac{42}{4579}, -\frac{42}{4579}, \frac{112}{4579}, \frac{420}{4579}, -\frac{84}{4579})$ $+ \frac{252}{4579}\sqrt{29}e^1 \otimes e_9 + \frac{56}{4579}\sqrt{427}e^3 \otimes e_8$	{12568, 128, 134567, 1347, 245789, 359}
932:10	$0, 0, 0, 0, 0, 0, \frac{28}{4775}\sqrt{957}e^{12}, \frac{28}{4775}\sqrt{1606}e^{17},$ $\frac{28}{4775}\sqrt{239}e^{27} + \frac{56}{4775}\sqrt{141}e^{34} + \frac{28}{4775}\sqrt{1418}e^{56}$	$(\frac{308}{4775}, -\frac{196}{4775}, \frac{154}{4775}, -\frac{238}{4775}, \frac{812}{4775}, -\frac{896}{4775}, \frac{112}{4775}, \frac{84}{4775}, -\frac{84}{4775})$ $- \frac{252}{4775}\sqrt{29}e^1 \otimes e_9 + \frac{392}{4775}e^3 \otimes e_4 + \frac{56}{4775}\sqrt{427}e^5 \otimes e_8$	{236789, 246789, 359, 459}
932:10	$0, 0, 0, 0, 0, 0, \frac{28}{4775}\sqrt{957}e^{12}, \frac{28}{4775}\sqrt{1606}e^{17},$ $\frac{28}{4775}\sqrt{239}e^{27} + \frac{56}{4775}\sqrt{141}e^{34} + \frac{28}{4775}\sqrt{1418}e^{56}$	$(\frac{308}{4775}, -\frac{196}{4775}, \frac{154}{4775}, -\frac{238}{4775}, \frac{812}{4775}, -\frac{896}{4775}, \frac{112}{4775}, \frac{84}{4775}, -\frac{84}{4775})$ $+ \frac{252}{4775}\sqrt{29}e^1 \otimes e_9 + \frac{392}{4775}e^3 \otimes e_4 + \frac{56}{4775}\sqrt{427}e^5 \otimes e_8$	{236789, 246789, 359, 459}
932:10	$0, 0, 0, 0, 0, 0, \frac{1}{344}\sqrt{7930}e^{12}, \frac{1}{172}\sqrt{1830}e^{17},$ $\frac{1}{344}\sqrt{1830}e^{27} + \frac{3}{344}\sqrt{610}e^{34} + \frac{3}{344}\sqrt{610}e^{56}$	$(\frac{7}{172}, \frac{23}{344}, \frac{365}{688}, -\frac{245}{688}, \frac{365}{688}, -\frac{245}{688}, \frac{37}{688}, \frac{51}{344}, \frac{15}{86})$ $+ \frac{305}{344}e^3 \otimes e_4 - \frac{305}{344}e^5 \otimes e_6$	{123589, 123689, 124689, 13579, 13679, 14679}
932:10	$0, 0, 0, 0, 0, 0, \frac{2}{4469}\sqrt{232986}e^{12}, \frac{8}{4469}\sqrt{105781}e^{17},$ $\frac{2}{4469}\sqrt{886418}e^{27} + \frac{2}{4469}\sqrt{40170}e^{34} + \frac{182}{4469}\sqrt{206}e^{56}$	$(-\frac{916}{4469}, \frac{1010}{4469}, \frac{1891}{4469}, -\frac{787}{4469}, \frac{1856}{4469}, -\frac{752}{4469}, \frac{94}{4469}, -\frac{822}{4469}, \frac{1104}{4469})$ $+ \frac{2678}{4469}e^3 \otimes e_4 + \frac{8}{4469}\sqrt{218257}e^5 \otimes e_8$	{1238, 1248, 13567, 14567}
932:10	$0, 0, 0, 0, 0, 0, \frac{1}{1565}\sqrt{232986}e^{12}, \frac{4}{1565}\sqrt{105781}e^{17},$ $\frac{1}{1565}\sqrt{886418}e^{27} + \frac{91}{1565}\sqrt{206}e^{34} + \frac{1}{1565}\sqrt{40170}e^{56}$	$(-\frac{458}{1565}, \frac{101}{313}, \frac{928}{1565}, -\frac{376}{1565}, \frac{276}{1565}, \frac{276}{1565}, \frac{47}{1565}, -\frac{411}{1565}, \frac{552}{1565})$ $+ \frac{4}{1565}\sqrt{218257}e^3 \otimes e_8$	{1258, 13457, 2456789, 24789, 3569, 39}
932:10	$0, 0, 0, 0, 0, 0, \frac{1}{344}\sqrt{7930}e^{12}, \frac{1}{172}\sqrt{1830}e^{17},$ $\frac{1}{344}\sqrt{1830}e^{27} + \frac{3}{344}\sqrt{610}e^{34} + \frac{3}{344}\sqrt{610}e^{56}$	$(\frac{7}{172}, \frac{23}{344}, \frac{365}{688}, -\frac{245}{688}, \frac{365}{688}, -\frac{245}{688}, \frac{37}{688}, \frac{51}{344}, \frac{15}{86})$ $+ \frac{305}{344}e^3 \otimes e_4 + \frac{305}{344}e^5 \otimes e_6$	{123589, 123689, 124689, 13579, 13679, 14679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{57}e^{12}, \frac{8}{311}\sqrt{94}e^{17} + \frac{8}{311}\sqrt{21}e^{34},$ $\frac{16}{311}\sqrt{2}e^{27} + \frac{8}{311}\sqrt{101}e^{56}$	$(\frac{20}{311}, -\frac{16}{311}, \frac{28}{311}, -\frac{4}{311}, \frac{56}{311}, -\frac{68}{311}, \frac{4}{311}, \frac{24}{311}, -\frac{12}{311})$ $+ \frac{16}{311}\sqrt{31}e^5 \otimes e_8 + \frac{32}{311}e^3 \otimes e_4 - \frac{8}{311}\sqrt{138}e^1 \otimes e_9$	{1238, 1248, 236789, 246789}
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{57}e^{12}, \frac{8}{311}\sqrt{94}e^{17} + \frac{8}{311}\sqrt{21}e^{34},$ $\frac{16}{311}\sqrt{2}e^{27} + \frac{8}{311}\sqrt{101}e^{56}$	$(\frac{20}{311}, -\frac{16}{311}, \frac{28}{311}, -\frac{4}{311}, \frac{56}{311}, -\frac{68}{311}, \frac{4}{311}, \frac{24}{311}, -\frac{12}{311})$ $+ \frac{16}{311}\sqrt{31}e^5 \otimes e_8 + \frac{32}{311}e^3 \otimes e_4 + \frac{8}{311}\sqrt{138}e^1 \otimes e_9$	{1238, 1248, 236789, 246789}
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{211}\sqrt{57}e^{12}, \frac{76}{211}\sqrt{2}e^{17} + \frac{4}{211}\sqrt{1577}e^{34},$ $\frac{16}{211}\sqrt{1273}e^{27} + \frac{16}{211}\sqrt{57}e^{56}$	$(\frac{62}{211}, -\frac{43}{211}, \frac{128}{211}, -\frac{47}{211}, -\frac{12}{211}, -\frac{12}{211}, \frac{19}{211}, \frac{81}{211}, -\frac{24}{211})$ $+ \frac{20}{211}\sqrt{133}e^3 \otimes e_9$	{1259, 145789, 234567, 2347, 3568, 38}
932:11	$0, 0, 0, 0, 0, 0, \frac{16}{289}\sqrt{22}e^{12}, \frac{32}{289}\sqrt{3}e^{17} + \frac{48}{289}\sqrt{2}e^{34},$ $\frac{32}{289}\sqrt{3}e^{27} + \frac{48}{289}\sqrt{2}e^{56}$	$(\frac{16}{289}, \frac{16}{289}, \frac{152}{289}, -\frac{104}{289}, \frac{152}{289}, -\frac{104}{289}, \frac{32}{289}, \frac{48}{289}, \frac{48}{289})$ $+ \frac{256}{289}e^3 \otimes e_4 + \frac{256}{289}e^5 \otimes e_6$	{123589, 123689, 124689}
932:11	$0, 0, 0, 0, 0, 0, \frac{16}{629}\sqrt{23}e^{12}, \frac{16}{629}\sqrt{38}e^{17} + \frac{16}{629}\sqrt{197}e^{34},$ $\frac{16}{629}\sqrt{38}e^{27} + \frac{16}{629}\sqrt{197}e^{56}$	$(\frac{8}{629}, \frac{8}{629}, \frac{152}{629}, -\frac{128}{629}, \frac{152}{629}, -\frac{128}{629}, \frac{16}{629}, \frac{24}{629}, \frac{24}{629})$ $+ \frac{32}{629}\sqrt{70}e^3 \otimes e_9 + \frac{32}{629}\sqrt{70}e^5 \otimes e_8$	{124689, 1579, 3456}
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{287}\sqrt{57}e^{12}, \frac{4}{287}\sqrt{1273}e^{17} + \frac{16}{287}\sqrt{57}e^{34},$ $\frac{16}{287}\sqrt{2}e^{27} + \frac{4}{287}\sqrt{1577}e^{56}$	$(-\frac{43}{287}, \frac{62}{287}, \frac{64}{287}, -\frac{88}{287}, \frac{128}{287}, -\frac{47}{287}, \frac{19}{287}, -\frac{24}{287}, \frac{81}{287})$ $+ \frac{152}{287}e^3 \otimes e_4 + \frac{20}{287}\sqrt{133}e^5 \otimes e_8$	{1238, 1248, 236789, 246789}
932:11	$0, 0, 0, 0, 0, 0, \frac{16}{161}\sqrt{22}e^{12}, \frac{32}{161}\sqrt{3}e^{17} + \frac{48}{161}\sqrt{2}e^{34},$ $\frac{32}{161}\sqrt{3}e^{27} + \frac{48}{161}\sqrt{2}e^{56}$	$(\frac{16}{161}, \frac{16}{161}, \frac{152}{161}, -\frac{104}{161}, \frac{24}{161}, \frac{24}{161}, \frac{32}{161}, \frac{48}{161}, \frac{48}{161})$ $+ \frac{256}{161}e^3 \otimes e_4$	{123589, 124589, 235678, 2378, 245678, 2478}
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{295}\sqrt{57}e^{12}, \frac{8}{295}\sqrt{94}e^{17} + \frac{8}{295}\sqrt{21}e^{34},$ $\frac{16}{295}\sqrt{2}e^{27} + \frac{8}{295}\sqrt{101}e^{56}$	$(\frac{4}{59}, -\frac{16}{295}, \frac{12}{295}, \frac{12}{295}, \frac{56}{295}, -\frac{68}{295}, \frac{4}{295}, \frac{24}{295}, -\frac{12}{295})$ $+ \frac{16}{295}\sqrt{31}e^5 \otimes e_8 + \frac{8}{295}\sqrt{138}e^1 \otimes e_9$	{1238, 134567, 1567, 236789, 3459, 59}
932:11	$0, 0, 0, 0, 0, 0, \frac{8}{295}\sqrt{57}e^{12}, \frac{8}{295}\sqrt{94}e^{17} + \frac{8}{295}\sqrt{21}e^{34},$ $\frac{16}{295}\sqrt{2}e^{27} + \frac{8}{295}\sqrt{101}e^{56}$	$(\frac{4}{59}, -\frac{16}{295}, \frac{12}{295}, \frac{12}{295}, \frac{56}{295}, -\frac{68}{295}, \frac{4}{295}, \frac{24}{295}, -\frac{12}{295})$ $+ \frac{16}{295}\sqrt{31}e^5 \otimes e_8 - \frac{8}{295}\sqrt{138}e^1 \otimes e_9$	{1238, 134567, 1567, 236789, 3459, 59}
932:12	$0, 0, 0, 0, 0, 0, \frac{4}{823}\sqrt{9443}e^{12}, \frac{4}{823}\sqrt{16898}e^{17} + \frac{6}{823}\sqrt{4970}e^{34},$ $\frac{2}{823}\sqrt{41251}e^{13} + \frac{6}{823}\sqrt{4970}e^{27} + \frac{2}{823}\sqrt{179914}e^{45}$	$(\frac{16}{823}, \frac{159}{823}, \frac{318}{823}, -\frac{127}{823}, \frac{461}{823}, -\frac{533}{823}, \frac{175}{823}, \frac{191}{823}, \frac{334}{823})$ $+ \frac{2}{823}\sqrt{336966}e^5 \otimes e_6$	{1268, 1457, 25789, 469}
932:12	$0, 0, 0, 0, 0, 0, \frac{94}{4981}\sqrt{149}e^{12}, \frac{47}{4981}\sqrt{2226}e^{17} + \frac{94}{4981}\sqrt{118}e^{34},$ $\frac{47}{4981}\sqrt{634}e^{13} + \frac{470}{4981}e^{27} + \frac{188}{4981}\sqrt{213}e^{45}$	$(-\frac{517}{4981}, \frac{329}{4981}, \frac{658}{4981}, -\frac{1363}{4981}, \frac{1504}{4981}, \frac{2350}{4981}, -\frac{188}{4981}, -\frac{705}{4981}, \frac{141}{4981})$ $+ \frac{141}{4981}\sqrt{394}e^6 \otimes e_9 + \frac{47}{4981}\sqrt{5262}e^5 \otimes e_8$	{24789, 59}
932:12	$0, 0, 0, 0, 0, 0, \frac{90}{1351}\sqrt{11}e^{12}, \frac{45}{1351}\sqrt{158}e^{17} + \frac{15}{1351}\sqrt{1842}e^{34},$ $\frac{30}{1351}\sqrt{66}e^{13} + \frac{30}{1351}\sqrt{138}e^{27} + \frac{45}{1351}\sqrt{158}e^{45}$	$(-\frac{15}{193}, \frac{180}{1351}, \frac{360}{1351}, -\frac{390}{1351}, \frac{645}{1351}, -\frac{45}{1351}, \frac{75}{1351}, -\frac{30}{1351}, \frac{255}{1351})$ $+ \frac{15}{1351}\sqrt{2814}e^3 \otimes e_6 + \frac{60}{1351}\sqrt{273}e^5 \otimes e_8$	{246789, 569}
932:12	$0, 0, 0, 0, 0, 0, \frac{10}{1019}\sqrt{470}e^{12}, \frac{20}{1019}\sqrt{255}e^{17} + \frac{50}{1019}\sqrt{34}e^{34},$ $\frac{20}{1019}\sqrt{262}e^{13} + \frac{20}{1019}\sqrt{97}e^{27} + \frac{10}{1019}\sqrt{1554}e^{45}$	$(-\frac{20}{1019}, \frac{70}{1019}, \frac{140}{1019}, -\frac{110}{1019}, \frac{230}{1019}, -\frac{310}{1019}, \frac{50}{1019}, \frac{30}{1019}, \frac{120}{1019})$ $+ \frac{30}{1019}\sqrt{178}e^4 \otimes e_6 + \frac{80}{1019}\sqrt{33}e^5 \otimes e_8$	{24789, 569}
932:12	$0, 0, 0, 0, 0, 0, \frac{2}{133}\sqrt{114}e^{12}, \frac{9}{133}\sqrt{38}e^{17} + \frac{1}{133}\sqrt{6270}e^{34},$ $\frac{2}{133}\sqrt{627}e^{13} + \frac{2}{133}\sqrt{399}e^{27} + \frac{9}{133}\sqrt{38}e^{45}$	$(\frac{1}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7})$ $+ \frac{1}{133}\sqrt{7638}e^3 \otimes e_6 + \frac{4}{133}\sqrt{399}e^4 \otimes e_5$	{123578, 134}
932:12	$0, 0, 0, 0, 0, 0, \frac{403}{2005}\sqrt{2}e^{12}, \frac{31}{2005}\sqrt{366}e^{17} + \frac{31}{2005}\sqrt{1510}e^{34},$ $\frac{31}{2005}\sqrt{619}e^{13} + \frac{31}{2005}\sqrt{305}e^{27} + \frac{31}{2005}\sqrt{267}e^{45}$	$(\frac{31}{401}, -\frac{124}{2005}, -\frac{248}{2005}, \frac{434}{2005}, -\frac{527}{2005}, \frac{1147}{2005}, \frac{31}{2005}, \frac{186}{2005}, -\frac{93}{2005})$ $+ \frac{62}{2005}\sqrt{429}e^4 \otimes e_5 + \frac{93}{2005}\sqrt{211}e^6 \otimes e_8$	{23578, 346}
932:12	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{182}e^{12}, \frac{4}{53}\sqrt{7}e^{17} + \frac{2}{53}\sqrt{434}e^{34},$ $\frac{4}{53}\sqrt{70}e^{13} + \frac{4}{53}\sqrt{7}e^{27} + \frac{2}{53}\sqrt{434}e^{45}$	$(\frac{12}{53}, \frac{2}{53}, \frac{4}{53}, \frac{22}{53}, -\frac{6}{53}, -\frac{34}{53}, \frac{14}{53}, \frac{26}{53}, \frac{16}{53})$ $+ \frac{2}{53}\sqrt{1218}e^4 \otimes e_6$	{1235689, 13479, 23678, 345}
932:12	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{105}e^{12}, \frac{1}{7}\sqrt{5}e^{17} + \frac{1}{21}\sqrt{114}e^{34},$ $\frac{5}{21}\sqrt{3}e^{13} + \frac{1}{7}\sqrt{15}e^{27} + \frac{1}{7}\sqrt{5}e^{45}$	$(\frac{1}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7})$ $+ \frac{1}{21}\sqrt{138}e^4 \otimes e_5 + \frac{1}{21}\sqrt{201}e^2 \otimes e_6$	{2347, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:12	$0, 0, 0, 0, 0, 0, \frac{7}{121}\sqrt{65}e^{12}, \frac{21}{121}\sqrt{5}e^{17} + \frac{14}{121}\sqrt{10}e^{34},$ $\frac{7}{121}\sqrt{67}e^{13} + \frac{7}{121}\sqrt{35}e^{27} + \frac{21}{121}\sqrt{5}e^{45}$	$(-\frac{7}{121}, \frac{14}{121}, \frac{28}{121}, -\frac{28}{121}, \frac{49}{121}, -\frac{35}{121}, \frac{7}{121}, 0, \frac{21}{121})$ $+\frac{21}{121}\sqrt{11}e^2 \otimes e_6 + \frac{7}{121}\sqrt{114}e^5 \otimes e_8$	{2378, 3456}
932:12	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{1}{7}\sqrt{21}e^{17} + \frac{1}{7}\sqrt{35}e^{34},$ $\frac{1}{7}\sqrt{35}e^{13} + \frac{1}{7}\sqrt{7}e^{27} + \frac{1}{7}\sqrt{21}e^{45}$	$(\frac{1}{14}, \frac{1}{7}, \frac{2}{7}, 0, \frac{5}{14}, -\frac{5}{7}, \frac{3}{14}, \frac{2}{7}, \frac{5}{14})$ $+\frac{2}{7}\sqrt{21}e^3 \otimes e_6$	{123578, 134, 2389, 34579}
932:12	$0, 0, 0, 0, 0, 0, \frac{10}{827}\sqrt{415}e^{12}, \frac{2}{827}\sqrt{25315}e^{17} + \frac{2}{827}\sqrt{25315}e^{34},$ $\frac{4}{827}\sqrt{21995}e^{13} + \frac{26}{827}\sqrt{415}e^{27} + \frac{26}{827}\sqrt{415}e^{45}$	$(\frac{11}{827}, -\frac{7}{827}, -\frac{14}{827}, \frac{29}{827}, -\frac{32}{827}, 1, \frac{4}{827}, \frac{15}{827}, -\frac{3}{827})$ $+\frac{10}{827}\sqrt{11454}e^6 \otimes e_9$	{12345678, 136, 23489, 3579}
932:12	$0, 0, 0, 0, 0, 0, \frac{110}{4933}\sqrt{473}e^{12}, \frac{55}{4933}\sqrt{1914}e^{17} + \frac{55}{4933}\sqrt{514}e^{34},$ $\frac{110}{4933}\sqrt{227}e^{13} + \frac{110}{4933}\sqrt{145}e^{27} + \frac{110}{4933}\sqrt{30}e^{45}$	$(\frac{935}{4933}, -\frac{55}{4933}, -\frac{110}{4933}, \frac{1925}{4933}, -\frac{1100}{4933}, -\frac{2090}{4933}, \frac{880}{4933}, \frac{1815}{4933}, \frac{825}{4933})$ $+\frac{165}{4933}\sqrt{598}e^1 \otimes e_6 + \frac{55}{4933}\sqrt{3282}e^4 \otimes e_5$	{2356789, 3469}
932:12	$0, 0, 0, 0, 0, 0, \frac{4}{823}\sqrt{9443}e^{12}, \frac{6}{823}\sqrt{4970}e^{17} + \frac{2}{823}\sqrt{179914}e^{34},$ $\frac{2}{823}\sqrt{41251}e^{13} + \frac{6}{823}\sqrt{16898}e^{27} + \frac{6}{823}\sqrt{4970}e^{45}$	$(\frac{242}{823}, -\frac{67}{823}, -\frac{134}{823}, \frac{551}{823}, -\frac{443}{823}, \frac{145}{823}, \frac{175}{823}, \frac{417}{823}, \frac{108}{823})$ $+\frac{2}{823}\sqrt{336966}e^4 \otimes e_5$	{23467, 2347, 3568, 358}
932:12	$0, 0, 0, 0, 0, 0, \frac{61}{5845}\sqrt{26}e^{12}, \frac{61}{5845}\sqrt{1290}e^{17} + \frac{61}{5845}\sqrt{1786}e^{34},$ $\frac{122}{5845}\sqrt{314}e^{13} + \frac{61}{5845}\sqrt{2162}e^{27} + \frac{244}{5845}\sqrt{39}e^{45}$	$(\frac{671}{5845}, -\frac{61}{835}, -\frac{122}{835}, \frac{1769}{5845}, -\frac{1952}{5845}, \frac{3538}{5845}, \frac{244}{5845}, \frac{183}{1169}, -\frac{183}{5845})$ $+\frac{183}{5845}\sqrt{638}e^6 \otimes e_9 + \frac{61}{5845}\sqrt{4614}e^4 \otimes e_5$	{1259, 14789}
932:12	$0, 0, 0, 0, 0, 0, \frac{2}{835}\sqrt{77381}e^{12}, \frac{2}{835}\sqrt{111387}e^{17} + \frac{14}{835}\sqrt{1041}e^{34},$ $\frac{2}{835}\sqrt{57602}e^{13} + \frac{14}{835}\sqrt{1041}e^{27} + \frac{2}{835}\sqrt{30189}e^{45}$	$(\frac{25}{167}, \frac{57}{835}, \frac{114}{835}, \frac{193}{835}, \frac{46}{835}, -\frac{569}{835}, \frac{182}{835}, \frac{307}{835}, \frac{239}{835})$ $+\frac{6}{835}\sqrt{27066}e^1 \otimes e_6$	{123458, 137, 2346789, 3569}
932:12	$0, 0, 0, 0, 0, 0, \frac{41}{5965}\sqrt{2294}e^{12}, \frac{287}{5965}\sqrt{102}e^{17} + \frac{82}{5965}\sqrt{59}e^{34},$ $\frac{41}{5965}\sqrt{682}e^{13} + \frac{41}{5965}\sqrt{2146}e^{27} + \frac{82}{5965}\sqrt{834}e^{45}$	$(-\frac{41}{1193}, \frac{533}{5965}, \frac{1066}{5965}, -\frac{943}{5965}, \frac{1804}{5965}, -\frac{1886}{5965}, \frac{328}{5965}, \frac{123}{5965}, \frac{861}{5965})$ $+\frac{123}{5965}\sqrt{554}e^1 \otimes e_6 + \frac{41}{5965}\sqrt{5730}e^5 \otimes e_8$	{128, 1457}
932:12	$0, 0, 0, 0, 0, 0, \frac{4}{847}\sqrt{9083}e^{12}, \frac{12}{847}\sqrt{2930}e^{17} + \frac{2}{847}\sqrt{35746}e^{34},$ $\frac{2}{847}\sqrt{70027}e^{13} + \frac{4}{847}\sqrt{8497}e^{27} + \frac{12}{847}\sqrt{2930}e^{45}$	$(-\frac{16}{121}, \frac{125}{847}, \frac{250}{847}, -\frac{349}{847}, \frac{487}{847}, \frac{19}{121}, \frac{13}{847}, -\frac{9}{77}, \frac{138}{847})$ $+\frac{2}{847}\sqrt{209202}e^5 \otimes e_8$	{246789, 24789, 569, 59}
932:12	$0, 0, 0, 0, 0, 0, \frac{4}{211}\sqrt{1826}e^{12}, \frac{6}{211}\sqrt{166}e^{17} + \frac{2}{211}\sqrt{3403}e^{34},$ $\frac{2}{211}\sqrt{4399}e^{13} + \frac{20}{211}\sqrt{83}e^{27} + \frac{6}{211}\sqrt{166}e^{45}$	$(\frac{17}{211}, \frac{23}{211}, \frac{46}{211}, \frac{11}{211}, \frac{52}{211}, -\frac{143}{211}, \frac{40}{211}, \frac{57}{211}, \frac{63}{211})$ $+\frac{2}{211}\sqrt{14691}e^2 \otimes e_6$	{123459, 136789, 2347, 3568}
932:12	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{182}e^{12}, \frac{2}{53}\sqrt{434}e^{17} + \frac{2}{53}\sqrt{434}e^{34},$ $\frac{4}{53}\sqrt{70}e^{13} + \frac{4}{53}\sqrt{7}e^{27} + \frac{4}{53}\sqrt{7}e^{45}$	$(-\frac{5}{106}, \frac{2}{53}, \frac{4}{53}, -\frac{7}{53}, \frac{17}{106}, 1, -\frac{1}{106}, -\frac{3}{53}, \frac{3}{106})$ $+\frac{2}{53}\sqrt{1218}e^6 \otimes e_8$	{123589, 134679, 2378, 3456}
932:13	$0, 0, 0, 0, 0, 0, \frac{2}{75}\sqrt{102}e^{12}, \frac{2}{75}\sqrt{26}e^{17} + \frac{4}{25}\sqrt{6}e^{34},$ $\frac{4}{75}\sqrt{42}e^{27} + \frac{2}{75}\sqrt{86}e^{35} + \frac{2}{75}\sqrt{86}e^{46}$	$(-\frac{2}{25}, \frac{2}{25}, \frac{3}{25}, -\frac{1}{5}, -\frac{1}{25}, \frac{7}{25}, 0, -\frac{2}{25}, \frac{2}{25})$ $-\frac{2}{75}\sqrt{266}e^2 \otimes e_8 + \frac{8}{25}e^3 \otimes e_5$	{2347, 2567, 368, 458}
932:13	$0, 0, 0, 0, 0, 0, \frac{2}{75}\sqrt{102}e^{12}, \frac{2}{75}\sqrt{26}e^{17} + \frac{4}{25}\sqrt{6}e^{34},$ $\frac{4}{75}\sqrt{42}e^{27} + \frac{2}{75}\sqrt{86}e^{35} + \frac{2}{75}\sqrt{86}e^{46}$	$(-\frac{2}{25}, \frac{2}{25}, \frac{3}{25}, -\frac{1}{5}, -\frac{1}{25}, \frac{7}{25}, 0, -\frac{2}{25}, \frac{2}{25})$ $+\frac{2}{75}\sqrt{266}e^2 \otimes e_8 + \frac{8}{25}e^3 \otimes e_5$	{2347, 2567, 368, 458}
932:13	$0, 0, 0, 0, 0, 0, \frac{70}{769}\sqrt{22}e^{12}, \frac{84}{769}\sqrt{22}e^{17} + \frac{28}{769}\sqrt{154}e^{34},$ $\frac{14}{769}\sqrt{110}e^{27} + \frac{42}{769}\sqrt{66}e^{35} + \frac{42}{769}\sqrt{66}e^{46}$	$(\frac{154}{769}, -\frac{98}{769}, \frac{77}{769}, \frac{133}{769}, -\frac{119}{769}, -\frac{175}{769}, \frac{56}{769}, \frac{210}{769}, -\frac{42}{769})$ $+\frac{14}{769}\sqrt{1406}e^1 \otimes e_9 + \frac{56}{769}\sqrt{7}e^3 \otimes e_5$	{1234568, 128, 1357, 1467}
932:13	$0, 0, 0, 0, 0, 0, \frac{70}{769}\sqrt{22}e^{12}, \frac{84}{769}\sqrt{22}e^{17} + \frac{28}{769}\sqrt{154}e^{34},$ $\frac{14}{769}\sqrt{110}e^{27} + \frac{42}{769}\sqrt{66}e^{35} + \frac{42}{769}\sqrt{66}e^{46}$	$(\frac{154}{769}, -\frac{98}{769}, \frac{77}{769}, \frac{133}{769}, -\frac{119}{769}, -\frac{175}{769}, \frac{56}{769}, \frac{210}{769}, -\frac{42}{769})$ $-\frac{14}{769}\sqrt{1406}e^1 \otimes e_9 + \frac{56}{769}\sqrt{7}e^3 \otimes e_5$	{1234568, 128, 1357, 1467}
932:13	$0, 0, 0, 0, 0, 0, \frac{118}{7245}\sqrt{127}e^{12}, \frac{59}{7245}\sqrt{1842}e^{17} + \frac{59}{7245}\sqrt{3922}e^{34},$ $\frac{236}{1449}e^{27} + \frac{236}{2415}\sqrt{10}e^{35} + \frac{59}{2415}\sqrt{258}e^{46}$	$(-\frac{59}{1035}, \frac{236}{2415}, \frac{2242}{7245}, -\frac{472}{1449}, -\frac{59}{345}, \frac{1121}{2415}, \frac{59}{1449}, -\frac{118}{7245}, \frac{1003}{7245})$ $+\frac{118}{2415}\sqrt{209}e^6 \otimes e_8 + \frac{59}{7245}\sqrt{5442}e^3 \otimes e_5$	{1238, 13467}
932:13	$0, 0, 0, 0, 0, 0, \frac{2}{2889}\sqrt{194005}e^{12}, \frac{2}{2889}\sqrt{1232715}e^{17} + \frac{2}{2889}\sqrt{374755}e^{34},$ $\frac{2}{2889}\sqrt{591655}e^{27} + \frac{2}{2889}\sqrt{321735}e^{35} + \frac{10}{963}\sqrt{723}e^{46}$	$(-\frac{701}{2889}, \frac{271}{963}, -\frac{896}{2889}, \frac{307}{2889}, \frac{607}{963}, \frac{206}{963}, \frac{112}{2889}, -\frac{589}{2889}, \frac{925}{2889})$ $+\frac{2}{2889}\sqrt{2899230}e^5 \otimes e_8$	{1248, 13457, 23789, 59}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:13	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{43}e^{12}, \frac{1}{18}\sqrt{129}e^{17} + \frac{1}{36}\sqrt{1462}e^{34},$ $\frac{1}{36}\sqrt{602}e^{27} + \frac{1}{12}\sqrt{43}e^{35} + \frac{1}{12}\sqrt{43}e^{46}$	$(\frac{5}{18}, -\frac{1}{12}, \frac{47}{72}, -\frac{13}{72}, -\frac{13}{24}, \frac{7}{24}, \frac{7}{36}, \frac{17}{36}, \frac{1}{9})$ $+ \frac{1}{18}\sqrt{645}e^3 \otimes e_5$	{2347, 2567, 368, 458}
932:13	$0, 0, 0, 0, 0, 0, \frac{8}{153}\sqrt{7}e^{12}, \frac{8}{153}\sqrt{66}e^{17} + \frac{8}{153}\sqrt{157}e^{34},$ $\frac{8}{153}\sqrt{62}e^{27} + \frac{4}{51}\sqrt{22}e^{35} + \frac{4}{51}\sqrt{22}e^{46}$	$(\frac{40}{153}, -\frac{8}{51}, \frac{28}{153}, \frac{28}{153}, -\frac{4}{17}, -\frac{4}{17}, \frac{16}{153}, \frac{56}{153}, -\frac{8}{153})$ $+ \frac{4}{153}\sqrt{570}e^3 \otimes e_5 - \frac{4}{153}\sqrt{570}e^4 \otimes e_6$	{2347, 2567, 368}
932:13	$0, 0, 0, 0, 0, 0, \frac{14}{753}\sqrt{502}e^{12}, \frac{28}{753}\sqrt{174}e^{17} + \frac{28}{251}\sqrt{14}e^{34},$ $\frac{14}{753}\sqrt{78}e^{27} + \frac{14}{251}\sqrt{58}e^{35} + \frac{14}{251}\sqrt{58}e^{46}$	$(\frac{154}{753}, -\frac{98}{753}, \frac{35}{251}, \frac{35}{251}, -\frac{49}{251}, -\frac{49}{251}, \frac{56}{753}, \frac{70}{251}, -\frac{14}{251})$ $+ \frac{14}{251}\sqrt{142}e^1 \otimes e_9$	{1234568, 128, 1357, 234789, 256789, 369}
932:13	$0, 0, 0, 0, 0, 0, \frac{14}{753}\sqrt{502}e^{12}, \frac{28}{753}\sqrt{174}e^{17} + \frac{28}{251}\sqrt{14}e^{34},$ $\frac{14}{753}\sqrt{78}e^{27} + \frac{14}{251}\sqrt{58}e^{35} + \frac{14}{251}\sqrt{58}e^{46}$	$(\frac{154}{753}, -\frac{98}{753}, \frac{35}{251}, \frac{35}{251}, -\frac{49}{251}, -\frac{49}{251}, \frac{56}{753}, \frac{70}{251}, -\frac{14}{251})$ $- \frac{14}{251}\sqrt{142}e^1 \otimes e_9$	{1234568, 128, 1357, 234789, 256789, 369}
932:13	$0, 0, 0, 0, 0, 0, \frac{14}{3497}\sqrt{797}e^{12}, \frac{14}{3497}\sqrt{1517}e^{17} + \frac{14}{3497}\sqrt{679}e^{34},$ $\frac{70}{3497}\sqrt{15}e^{27} + \frac{28}{3497}\sqrt{319}e^{35} + \frac{14}{3497}\sqrt{723}e^{46}$	$(\frac{77}{3497}, -\frac{49}{3497}, -\frac{224}{3497}, \frac{329}{3497}, \frac{203}{3497}, -\frac{350}{3497}, \frac{28}{3497}, \frac{105}{3497}, -\frac{21}{3497})$ $+ \frac{14}{3497}\sqrt{1106}e^5 \otimes e_8 + \frac{14}{3497}\sqrt{2018}e^1 \otimes e_9$	{128, 1357, 234789, 459}
932:13	$0, 0, 0, 0, 0, 0, \frac{14}{3497}\sqrt{797}e^{12}, \frac{14}{3497}\sqrt{1517}e^{17} + \frac{14}{3497}\sqrt{679}e^{34},$ $\frac{70}{3497}\sqrt{15}e^{27} + \frac{28}{3497}\sqrt{319}e^{35} + \frac{14}{3497}\sqrt{723}e^{46}$	$(\frac{77}{3497}, -\frac{49}{3497}, -\frac{224}{3497}, \frac{329}{3497}, \frac{203}{3497}, -\frac{350}{3497}, \frac{28}{3497}, \frac{105}{3497}, -\frac{21}{3497})$ $+ \frac{14}{3497}\sqrt{1106}e^5 \otimes e_8 - \frac{14}{3497}\sqrt{2018}e^1 \otimes e_9$	{128, 1357, 234789, 459}
932:13	$0, 0, 0, 0, 0, 0, \frac{8}{153}\sqrt{7}e^{12}, \frac{8}{153}\sqrt{66}e^{17} + \frac{8}{153}\sqrt{157}e^{34},$ $\frac{8}{153}\sqrt{62}e^{27} + \frac{4}{51}\sqrt{22}e^{35} + \frac{4}{51}\sqrt{22}e^{46}$	$(\frac{40}{153}, -\frac{8}{51}, \frac{28}{153}, \frac{28}{153}, -\frac{4}{17}, -\frac{4}{17}, \frac{16}{153}, \frac{56}{153}, -\frac{8}{153})$ $+ \frac{4}{153}\sqrt{570}e^3 \otimes e_5 + \frac{4}{153}\sqrt{570}e^4 \otimes e_6$	{2347, 2567, 368}
932:14	$0, 0, 0, 0, 0, 0, \frac{2}{321}\sqrt{262}e^{12}, -\frac{1}{321}\sqrt{33405}e^{13} + \frac{1}{321}\sqrt{33929}e^{27},$ $\frac{1}{321}\sqrt{25283}e^{17} + \frac{1}{321}\sqrt{25807}e^{23} + \frac{2}{321}\sqrt{11266}e^{45}$	$(\frac{2}{107}, \frac{2}{107}, \frac{4}{107}, \frac{149}{321}, -\frac{131}{321}, \frac{41}{321}, \frac{4}{107}, \frac{6}{107}, \frac{6}{107})$ $+ \frac{4}{321}\sqrt{4585}e^4 \otimes e_8$	{1268, 128, 156789, 15789, 24567, 2457, 469, 49, 1268, 128, 156789, 15789, 24567, 2457, 469, 49}
932:14	$0, 0, 0, 0, 0, 0, \frac{2}{321}\sqrt{262}e^{12}, \frac{1}{321}\sqrt{33405}e^{13} + \frac{1}{321}\sqrt{33929}e^{27},$ $\frac{1}{321}\sqrt{25283}e^{17} + \frac{1}{321}\sqrt{25807}e^{23} + \frac{2}{321}\sqrt{11266}e^{45}$	$(\frac{2}{107}, \frac{2}{107}, \frac{4}{107}, \frac{149}{321}, -\frac{131}{321}, \frac{41}{321}, \frac{4}{107}, \frac{6}{107}, \frac{6}{107})$ $+ \frac{4}{321}\sqrt{4585}e^4 \otimes e_8$	{1268, 128, 156789, 15789, 24567, 2457, 469, 49, 1268, 128, 156789, 15789, 24567, 2457, 469, 49}
932:14	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, -\frac{4}{131}\sqrt{91}e^{13} + \frac{12}{131}\sqrt{23}e^{27},$ $\frac{4}{131}\sqrt{119}e^{17} + \frac{4}{131}\sqrt{69}e^{23} + \frac{4}{131}\sqrt{182}e^{45}$	$(\frac{4}{131}, \frac{4}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{32}{131}, -\frac{28}{131}, \frac{8}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{16}{131}\sqrt{19}e^4 \otimes e_8 + \frac{4}{131}\sqrt{166}e^2 \otimes e_6$	{128, 156789, 2457, 469, 128, 156789, 2457, 469}
932:14	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{91}e^{13} + \frac{12}{131}\sqrt{23}e^{27},$ $\frac{4}{131}\sqrt{119}e^{17} + \frac{4}{131}\sqrt{69}e^{23} + \frac{4}{131}\sqrt{182}e^{45}$	$(\frac{4}{131}, \frac{4}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{32}{131}, -\frac{28}{131}, \frac{8}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{16}{131}\sqrt{19}e^4 \otimes e_8 + \frac{4}{131}\sqrt{166}e^2 \otimes e_6$	{128, 156789, 2457, 469, 128, 156789, 2457, 469}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{227}\sqrt{226}e^{12}, -\frac{24}{227}\sqrt{14}e^{13} + \frac{48}{227}e^{27},$ $\frac{16}{227}\sqrt{59}e^{17} + \frac{16}{227}\sqrt{38}e^{23} + \frac{8}{227}\sqrt{6}e^{45}$	$(\frac{16}{227}, \frac{16}{227}, \frac{32}{227}, \frac{88}{227}, -\frac{40}{227}, -\frac{112}{227}, \frac{32}{227}, \frac{48}{227}, \frac{48}{227})$ $+ \frac{128}{227}e^4 \otimes e_5 + \frac{40}{227}\sqrt{22}e^1 \otimes e_6$	{12349, 12359, 2346789, 2356789, 12349, 12359, 2346789, 2356789}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{227}\sqrt{226}e^{12}, \frac{24}{227}\sqrt{14}e^{13} + \frac{48}{227}e^{27},$ $\frac{16}{227}\sqrt{59}e^{17} + \frac{16}{227}\sqrt{38}e^{23} + \frac{8}{227}\sqrt{6}e^{45}$	$(\frac{16}{227}, \frac{16}{227}, \frac{32}{227}, \frac{88}{227}, -\frac{40}{227}, -\frac{112}{227}, \frac{32}{227}, \frac{48}{227}, \frac{48}{227})$ $+ \frac{128}{227}e^4 \otimes e_5 + \frac{40}{227}\sqrt{22}e^1 \otimes e_6$	{12349, 12359, 2346789, 2356789, 12349, 12359, 2346789, 2356789}
932:14	$0, 0, 0, 0, 0, 0, \frac{272}{887}\sqrt{2}e^{12}, -\frac{510}{887}e^{13} + \frac{102}{887}\sqrt{11}e^{27},$ $\frac{34}{887}\sqrt{87}e^{17} + \frac{34}{887}\sqrt{237}e^{23} + \frac{68}{887}\sqrt{6}e^{45}$	$(\frac{68}{887}, \frac{68}{887}, \frac{136}{887}, \frac{391}{887}, -\frac{187}{887}, -\frac{442}{887}, \frac{136}{887}, \frac{204}{887}, \frac{204}{887})$ $+ \frac{578}{887}e^4 \otimes e_5 + \frac{68}{887}\sqrt{130}e^3 \otimes e_6$	{1468, 1568, 467, 567, 1468, 1568, 467, 567}
932:14	$0, 0, 0, 0, 0, 0, \frac{272}{887}\sqrt{2}e^{12}, \frac{510}{887}e^{13} + \frac{102}{887}\sqrt{11}e^{27},$ $\frac{34}{887}\sqrt{87}e^{17} + \frac{34}{887}\sqrt{237}e^{23} + \frac{68}{887}\sqrt{6}e^{45}$	$(\frac{68}{887}, \frac{68}{887}, \frac{136}{887}, \frac{391}{887}, -\frac{187}{887}, -\frac{442}{887}, \frac{136}{887}, \frac{204}{887}, \frac{204}{887})$ $+ \frac{578}{887}e^4 \otimes e_5 + \frac{68}{887}\sqrt{130}e^3 \otimes e_6$	{1468, 1568, 467, 567, 1468, 1568, 467, 567}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{227}\sqrt{226}e^{12}, -\frac{8}{227}\sqrt{149}e^{13} + \frac{8}{227}\sqrt{239}e^{27},$ $\frac{8}{227}\sqrt{39}e^{17} + \frac{8}{227}\sqrt{123}e^{23} + \frac{8}{227}\sqrt{6}e^{45}$	$(\frac{16}{227}, \frac{16}{227}, \frac{32}{227}, \frac{88}{227}, -\frac{40}{227}, -\frac{112}{227}, \frac{32}{227}, \frac{48}{227}, \frac{48}{227})$ $+ \frac{128}{227}e^4 \otimes e_5 + \frac{40}{227}\sqrt{22}e^2 \otimes e_6$	{1346789, 1356789, 3469, 3569, 1346789, 1356789, 3469, 3569}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{227}\sqrt{226}e^{12}, \frac{8}{227}\sqrt{149}e^{13} + \frac{8}{227}\sqrt{239}e^{27},$ $\frac{8}{227}\sqrt{39}e^{17} + \frac{8}{227}\sqrt{123}e^{23} + \frac{8}{227}\sqrt{6}e^{45}$	$(\frac{16}{227}, \frac{16}{227}, \frac{32}{227}, \frac{88}{227}, -\frac{40}{227}, -\frac{112}{227}, \frac{32}{227}, \frac{48}{227}, \frac{48}{227})$ $+ \frac{128}{227}e^4 \otimes e_5 + \frac{40}{227}\sqrt{22}e^2 \otimes e_6$	{1346789, 1356789, 3469, 3569, 1346789, 1356789, 3469, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{226}e^{12}, -\frac{8}{163}\sqrt{149}e^{13} + \frac{8}{163}\sqrt{239}e^{27},$ $\frac{8}{163}\sqrt{39}e^{17} + \frac{8}{163}\sqrt{123}e^{23} + \frac{8}{163}\sqrt{6}e^{45}$	$(\frac{16}{163}, \frac{16}{163}, \frac{32}{163}, \frac{24}{163}, \frac{24}{163}, -\frac{112}{163}, \frac{32}{163}, \frac{48}{163}, \frac{48}{163})$ $+ \frac{40}{163}\sqrt{22}e^2 \otimes e_6$	{123458, 1238, 1346789, 23457, 237, 3469, 123458, 1238, 1346789, 23457, 237, 3469}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{226}e^{12}, \frac{8}{163}\sqrt{149}e^{13} + \frac{8}{163}\sqrt{239}e^{27},$ $\frac{8}{163}\sqrt{39}e^{17} + \frac{8}{163}\sqrt{123}e^{23} + \frac{8}{163}\sqrt{6}e^{45}$	$(\frac{16}{163}, \frac{16}{163}, \frac{32}{163}, \frac{24}{163}, \frac{24}{163}, -\frac{112}{163}, \frac{32}{163}, \frac{48}{163}, \frac{48}{163})$ $+ \frac{40}{163}\sqrt{22}e^2 \otimes e_6$	{123458, 1238, 1346789, 23457, 237, 3469, 123458, 1238, 1346789, 23457, 237, 3469}
932:14	$0, 0, 0, 0, 0, 0, \frac{136}{299}\sqrt{2}e^{12}, -\frac{255}{299}e^{13} + \frac{51}{299}\sqrt{11}e^{27},$ $\frac{17}{299}\sqrt{87}e^{17} + \frac{17}{299}\sqrt{237}e^{23} + \frac{34}{299}\sqrt{6}e^{45}$	$(\frac{34}{299}, \frac{34}{299}, \frac{68}{299}, \frac{51}{299}, \frac{51}{299}, -\frac{17}{23}, \frac{68}{299}, \frac{102}{299}, \frac{102}{299})$ $+ \frac{34}{299}\sqrt{130}e^3 \otimes e_6$	{12456789, 126789, 1468, 24569, 269, 467, 12456789, 126789, 1468, 24569, 269, 467}
932:14	$0, 0, 0, 0, 0, 0, \frac{136}{299}\sqrt{2}e^{12}, \frac{255}{299}e^{13} + \frac{51}{299}\sqrt{11}e^{27},$ $\frac{17}{299}\sqrt{87}e^{17} + \frac{17}{299}\sqrt{237}e^{23} + \frac{34}{299}\sqrt{6}e^{45}$	$(\frac{34}{299}, \frac{34}{299}, \frac{68}{299}, \frac{51}{299}, \frac{51}{299}, -\frac{17}{23}, \frac{68}{299}, \frac{102}{299}, \frac{102}{299})$ $+ \frac{34}{299}\sqrt{130}e^3 \otimes e_6$	{12456789, 126789, 1468, 24569, 269, 467, 12456789, 126789, 1468, 24569, 269, 467}
932:14	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, -\frac{4}{131}\sqrt{174}e^{13} + \frac{8}{131}\sqrt{31}e^{27},$ $\frac{24}{131}e^{17} + \frac{8}{131}\sqrt{38}e^{23} + \frac{4}{131}\sqrt{182}e^{45}$	$(\frac{4}{131}, \frac{4}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{32}{131}, -\frac{28}{131}, \frac{8}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{16}{131}\sqrt{19}e^4 \otimes e_8 + \frac{4}{131}\sqrt{166}e^1 \otimes e_6$	{128, 15789, 24567, 469, 128, 15789, 24567, 469}
932:14	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{66}e^{12}, \frac{4}{131}\sqrt{174}e^{13} + \frac{8}{131}\sqrt{31}e^{27},$ $\frac{24}{131}e^{17} + \frac{8}{131}\sqrt{38}e^{23} + \frac{4}{131}\sqrt{182}e^{45}$	$(\frac{4}{131}, \frac{4}{131}, \frac{8}{131}, \frac{44}{131}, -\frac{32}{131}, -\frac{28}{131}, \frac{8}{131}, \frac{12}{131}, \frac{12}{131})$ $+ \frac{16}{131}\sqrt{19}e^4 \otimes e_8 + \frac{4}{131}\sqrt{166}e^1 \otimes e_6$	{128, 15789, 24567, 469, 128, 15789, 24567, 469}
932:14	$0, 0, 0, 0, 0, 0, \frac{34}{1099}\sqrt{42}e^{12}, -\frac{17}{1099}\sqrt{885}e^{13} + \frac{17}{1099}\sqrt{481}e^{27},$ $\frac{17}{1099}\sqrt{587}e^{17} + \frac{17}{1099}\sqrt{183}e^{23} + \frac{34}{1099}\sqrt{194}e^{45}$	$(\frac{34}{1099}, \frac{34}{1099}, \frac{68}{1099}, \frac{391}{1099}, -\frac{289}{1099}, -\frac{221}{1099}, \frac{68}{1099}, \frac{102}{1099}, \frac{102}{1099})$ $+ \frac{136}{1099}\sqrt{10}e^3 \otimes e_6 + \frac{68}{1099}\sqrt{85}e^4 \otimes e_8$	{123479, 1345, 23589, 378, 123479, 1345, 23589, 378}
932:14	$0, 0, 0, 0, 0, 0, \frac{34}{1099}\sqrt{42}e^{12}, \frac{17}{1099}\sqrt{885}e^{13} + \frac{17}{1099}\sqrt{481}e^{27},$ $\frac{17}{1099}\sqrt{587}e^{17} + \frac{17}{1099}\sqrt{183}e^{23} + \frac{34}{1099}\sqrt{194}e^{45}$	$(\frac{34}{1099}, \frac{34}{1099}, \frac{68}{1099}, \frac{391}{1099}, -\frac{289}{1099}, -\frac{221}{1099}, \frac{68}{1099}, \frac{102}{1099}, \frac{102}{1099})$ $+ \frac{136}{1099}\sqrt{10}e^3 \otimes e_6 + \frac{68}{1099}\sqrt{85}e^4 \otimes e_8$	{123479, 1345, 23589, 378, 123479, 1345, 23589, 378}
932:14	$0, 0, 0, 0, 0, 0, \frac{10}{651}\sqrt{15}e^{12}, -\frac{5}{651}\sqrt{1155}e^{13} + \frac{5}{651}\sqrt{1185}e^{27},$ $\frac{5}{651}\sqrt{993}e^{17} + \frac{5}{651}\sqrt{1023}e^{23} + \frac{5}{651}\sqrt{1974}e^{45}$	$(\frac{5}{217}, \frac{5}{217}, \frac{10}{217}, -\frac{25}{217}, \frac{40}{217}, -\frac{50}{217}, \frac{10}{217}, \frac{15}{217}, \frac{15}{217})$ $+ \frac{10}{651}\sqrt{303}e^4 \otimes e_6 + \frac{5}{651}\sqrt{2382}e^5 \otimes e_8$	{1268, 14789, 2457, 569, 1268, 14789, 2457, 569}
932:14	$0, 0, 0, 0, 0, 0, \frac{10}{651}\sqrt{15}e^{12}, \frac{5}{651}\sqrt{1155}e^{13} + \frac{5}{651}\sqrt{1185}e^{27},$ $\frac{5}{651}\sqrt{993}e^{17} + \frac{5}{651}\sqrt{1023}e^{23} + \frac{5}{651}\sqrt{1974}e^{45}$	$(\frac{5}{217}, \frac{5}{217}, \frac{10}{217}, -\frac{25}{217}, \frac{40}{217}, -\frac{50}{217}, \frac{10}{217}, \frac{15}{217}, \frac{15}{217})$ $+ \frac{10}{651}\sqrt{303}e^4 \otimes e_6 + \frac{5}{651}\sqrt{2382}e^5 \otimes e_8$	{1268, 14789, 2457, 569, 1268, 14789, 2457, 569}
932:14	$0, 0, 0, 0, 0, 0, \frac{2}{657}\sqrt{2406}e^{12}, -\frac{2}{657}\sqrt{18847}e^{13} + \frac{2}{657}\sqrt{29674}e^{27},$ $\frac{4}{657}\sqrt{6015}e^{17} + \frac{2}{657}\sqrt{34887}e^{23} + \frac{4}{657}\sqrt{26867}e^{45}$	$(\frac{9}{73}, \frac{9}{73}, \frac{18}{73}, \frac{389}{657}, -\frac{2}{9}, -\frac{413}{657}, \frac{18}{73}, \frac{27}{73}, \frac{27}{73})$ $+ \frac{2}{657}\sqrt{214535}e^4 \otimes e_6$	{12458, 1268, 14789, 156789, 2457, 267, 49, 569, 12458, 1268, 14789, 156789, 2457, 267, 49, 569}
932:14	$0, 0, 0, 0, 0, 0, \frac{2}{657}\sqrt{2406}e^{12}, \frac{2}{657}\sqrt{18847}e^{13} + \frac{2}{657}\sqrt{29674}e^{27},$ $\frac{4}{657}\sqrt{6015}e^{17} + \frac{2}{657}\sqrt{34887}e^{23} + \frac{4}{657}\sqrt{26867}e^{45}$	$(\frac{9}{73}, \frac{9}{73}, \frac{18}{73}, \frac{389}{657}, -\frac{2}{9}, -\frac{413}{657}, \frac{18}{73}, \frac{27}{73}, \frac{27}{73})$ $+ \frac{2}{657}\sqrt{214535}e^4 \otimes e_6$	{12458, 1268, 14789, 156789, 2457, 267, 49, 569, 12458, 1268, 14789, 156789, 2457, 267, 49, 569}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{226}e^{12}, -\frac{24}{163}\sqrt{14}e^{13} + \frac{48}{163}e^{27},$ $\frac{16}{163}\sqrt{59}e^{17} + \frac{16}{163}\sqrt{38}e^{23} + \frac{8}{163}\sqrt{6}e^{45}$	$(\frac{16}{163}, \frac{16}{163}, \frac{32}{163}, \frac{24}{163}, \frac{24}{163}, -\frac{112}{163}, \frac{32}{163}, \frac{48}{163}, \frac{48}{163})$ $+ \frac{40}{163}\sqrt{22}e^1 \otimes e_6$	{12349, 13457, 137, 2346789, 34568, 368, 12349, 13457, 137, 2346789, 34568, 368}
932:14	$0, 0, 0, 0, 0, 0, \frac{8}{163}\sqrt{226}e^{12}, \frac{24}{163}\sqrt{14}e^{13} + \frac{48}{163}e^{27},$ $\frac{16}{163}\sqrt{59}e^{17} + \frac{16}{163}\sqrt{38}e^{23} + \frac{8}{163}\sqrt{6}e^{45}$	$(\frac{16}{163}, \frac{16}{163}, \frac{32}{163}, \frac{24}{163}, \frac{24}{163}, -\frac{112}{163}, \frac{32}{163}, \frac{48}{163}, \frac{48}{163})$ $+ \frac{40}{163}\sqrt{22}e^1 \otimes e_6$	{12349, 13457, 137, 2346789, 34568, 368, 12349, 13457, 137, 2346789, 34568, 368}
932:15	$0, 0, 0, 0, 0, 0, \frac{25}{593}\sqrt{34}e^{12}, \frac{25}{593}\sqrt{86}e^{13} + \frac{100}{593}\sqrt{2}e^{27},$ $\frac{60}{593}\sqrt{10}e^{17} + \frac{10}{593}\sqrt{705}e^{24} + \frac{20}{593}\sqrt{65}e^{35}$	$(\frac{55}{593}, -\frac{35}{593}, -\frac{70}{593}, \frac{110}{593}, \frac{145}{593}, -\frac{160}{593}, \frac{20}{593}, -\frac{15}{593}, \frac{75}{593})$ $+ \frac{15}{593}\sqrt{390}e^4 \otimes e_8 + \frac{5}{593}\sqrt{2010}e^2 \otimes e_6$	{23589, 3678}
932:15	$0, 0, 0, 0, 0, 0, \frac{7}{481}\sqrt{570}e^{12}, \frac{7}{481}\sqrt{510}e^{13} + \frac{28}{481}\sqrt{35}e^{27},$ $\frac{7}{481}\sqrt{30}e^{17} + \frac{7}{481}\sqrt{510}e^{24} + \frac{7}{481}\sqrt{446}e^{35}$	$(-\frac{7}{481}, \frac{35}{481}, \frac{70}{481}, -\frac{14}{481}, -\frac{49}{481}, -\frac{98}{481}, \frac{28}{481}, \frac{63}{481}, \frac{21}{481})$ $+ \frac{28}{481}\sqrt{17}e^5 \otimes e_6 + \frac{7}{481}\sqrt{614}e^2 \otimes e_4$	{134578, 345}
932:15	$0, 0, 0, 0, 0, 0, \frac{41}{2749}\sqrt{770}e^{12}, \frac{41}{2749}\sqrt{466}e^{13} + \frac{82}{2749}\sqrt{235}e^{27},$ $\frac{41}{2749}\sqrt{510}e^{17} + \frac{82}{2749}\sqrt{202}e^{24} + \frac{82}{2749}\sqrt{10}e^{35}$	$(-\frac{41}{2749}, \frac{533}{2749}, \frac{1066}{2749}, -\frac{82}{2749}, -\frac{615}{2749}, -\frac{1148}{2749}, \frac{492}{2749}, \frac{1025}{2749}, \frac{451}{2749})$ $+ \frac{41}{2749}\sqrt{1914}e^3 \otimes e_5 + \frac{574}{2749}\sqrt{15}e^2 \otimes e_6$	{12458, 2457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:15	$0, 0, 0, 0, 0, 0, \frac{11}{733}\sqrt{902e^{12}}, \frac{55}{733}\sqrt{22e^{13}} + \frac{22}{733}\sqrt{170e^{27}},$ $\frac{11}{733}\sqrt{246e^{17}} + \frac{11}{733}\sqrt{690e^{24}} + \frac{22}{733}\sqrt{94e^{35}}$	$(-\frac{22}{733}, \frac{77}{733}, \frac{154}{733}, -\frac{44}{733}, -\frac{121}{733}, -\frac{143}{733}, \frac{55}{733}, \frac{132}{733}, \frac{33}{733})$ $+ \frac{22}{733}\sqrt{105e^1} \otimes e_6 + \frac{44}{733}\sqrt{57e^2} \otimes e_4$	{134578, 3456}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{190e^{12}}, \frac{1}{35}\sqrt{874e^{13}} + \frac{6}{35}\sqrt{19e^{27}},$ $\frac{1}{35}\sqrt{399e^{17}} + \frac{1}{35}\sqrt{133e^{24}} + \frac{1}{35}\sqrt{57e^{35}}$	$(\frac{2}{35}, -\frac{1}{14}, -\frac{1}{7}, \frac{4}{35}, \frac{13}{70}, 1, -\frac{1}{70}, -\frac{3}{35}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247e^6} \otimes e_8$	{1235679, 136, 23589, 378}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{122e^{12}}, \frac{4}{17}\sqrt{2e^{13}} + \frac{1}{17}\sqrt{29e^{27}},$ $\frac{3}{34}\sqrt{2e^{17}} + \frac{1}{34}\sqrt{107e^{24}} + \frac{1}{17}\sqrt{19e^{35}}$	$(-\frac{1}{68}, 0, 0, -\frac{1}{34}, -\frac{1}{34}, \frac{11}{68}, -\frac{1}{68}, -\frac{1}{68}, -\frac{1}{34})$ $+ \frac{1}{17}\sqrt{30e^2} \otimes e_4 - \frac{3}{34}\sqrt{7e^3} \otimes e_5$	{1345678, 134578, 345, 3456}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{122e^{12}}, \frac{4}{17}\sqrt{2e^{13}} + \frac{1}{17}\sqrt{29e^{27}},$ $\frac{3}{34}\sqrt{2e^{17}} + \frac{1}{34}\sqrt{107e^{24}} + \frac{1}{17}\sqrt{19e^{35}}$	$(-\frac{1}{68}, 0, 0, -\frac{1}{34}, -\frac{1}{34}, \frac{11}{68}, -\frac{1}{68}, -\frac{1}{68}, -\frac{1}{34})$ $+ \frac{1}{17}\sqrt{30e^2} \otimes e_4 + \frac{3}{34}\sqrt{7e^3} \otimes e_5$	{1345678, 134578, 345, 3456}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{12122e^{12}}, \frac{19}{287}\sqrt{22e^{13}} + \frac{1}{287}\sqrt{53922e^{27}},$ $\frac{19}{287}\sqrt{66e^{17}} + \frac{1}{287}\sqrt{6479e^{24}} + \frac{1}{287}\sqrt{53922e^{35}}$	$(\frac{53}{287}, -\frac{52}{287}, -\frac{104}{287}, \frac{106}{287}, \frac{158}{287}, \frac{44}{287}, \frac{1}{287}, -\frac{51}{287}, \frac{54}{287})$ $+ \frac{9}{287}\sqrt{1254e^5} \otimes e_8$	{1268, 128, 569, 59}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{26}\sqrt{406e^{12}}, \frac{1}{26}\sqrt{493e^{13}} + \frac{1}{13}\sqrt{87e^{27}},$ $\frac{1}{26}\sqrt{174e^{17}} + \frac{2}{13}\sqrt{58e^{24}} + \frac{1}{13}\sqrt{87e^{35}}$	$(\frac{5}{26}, \frac{1}{52}, \frac{1}{26}, \frac{5}{13}, \frac{19}{52}, -\frac{19}{26}, \frac{11}{52}, \frac{3}{13}, \frac{21}{52})$ $+ \frac{3}{26}\sqrt{145e^4} \otimes e_6$	{126789, 1568, 269, 567}
932:15	$0, 0, 0, 0, 0, 0, \frac{5}{3901}\sqrt{3842e^{12}}, \frac{5}{3901}\sqrt{2798e^{13}} + \frac{10}{3901}\sqrt{1229e^{27}},$ $\frac{15}{3901}\sqrt{46e^{17}} + \frac{5}{3901}\sqrt{3734e^{24}} + \frac{10}{3901}\sqrt{862e^{35}}$	$(-\frac{20}{3901}, -\frac{15}{3901}, -\frac{30}{3901}, -\frac{40}{3901}, -\frac{25}{3901}, \frac{295}{3901}, -\frac{35}{3901}, -\frac{50}{3901}, -\frac{55}{3901})$ $+ \frac{10}{3901}\sqrt{1101e^2} \otimes e_4 + \frac{30}{3901}\sqrt{78e^5} \otimes e_8$	{23567, 2357}
932:15	$0, 0, 0, 0, 0, 0, \frac{34}{2129}\sqrt{518e^{12}}, \frac{34}{2129}\sqrt{197e^{13}} + \frac{34}{2129}\sqrt{958e^{27}},$ $\frac{612}{2129}e^{17} + \frac{136}{2129}\sqrt{14e^{24}} + \frac{34}{2129}\sqrt{653e^{35}}$	$(\frac{221}{2129}, -\frac{119}{2129}, -\frac{238}{2129}, \frac{442}{2129}, \frac{561}{2129}, -\frac{697}{2129}, \frac{102}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+ \frac{34}{2129}\sqrt{915e^2} \otimes e_6 + \frac{68}{2129}\sqrt{249e^5} \otimes e_8$	{136789, 2357}
932:15	$0, 0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2e^{12}}, \frac{3}{61}\sqrt{42e^{13}} + \frac{18}{61}\sqrt{2e^{27}},$ $\frac{6}{61}\sqrt{6e^{17}} + \frac{3}{61}\sqrt{66e^{24}} + \frac{18}{61}\sqrt{2e^{35}}$	$(\frac{9}{61}, -\frac{6}{61}, \frac{12}{61}, \frac{18}{61}, \frac{24}{61}, -\frac{18}{61}, \frac{3}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{15}{61}\sqrt{6e^1} \otimes e_6 + \frac{3}{61}\sqrt{174e^5} \otimes e_8$	{1478, 245679}
932:15	$0, 0, 0, 0, 0, 0, \frac{5}{763}\sqrt{70e^{12}}, \frac{5}{763}\sqrt{2170e^{13}} + \frac{30}{763}\sqrt{70e^{27}},$ $\frac{5}{763}\sqrt{2226e^{17}} + \frac{5}{763}\sqrt{1106e^{24}} + \frac{10}{763}\sqrt{987e^{35}}$	$(\frac{10}{109}, -\frac{5}{109}, -\frac{10}{109}, \frac{20}{109}, \frac{25}{109}, -\frac{35}{109}, \frac{5}{109}, 0, \frac{15}{109})$ $+ \frac{30}{763}\sqrt{119e^3} \otimes e_6 + \frac{30}{763}\sqrt{154e^5} \otimes e_8$	{1345, 23489}
932:15	$0, 0, 0, 0, 0, 0, \frac{925}{2101}\sqrt{2e^{12}}, \frac{75}{2101}\sqrt{238e^{13}} + \frac{50}{2101}\sqrt{671e^{27}},$ $\frac{225}{2101}\sqrt{2e^{17}} + \frac{25}{2101}\sqrt{2278e^{24}} + \frac{50}{2101}\sqrt{427e^{35}}$	$(-\frac{150}{2101}, \frac{325}{2101}, \frac{650}{2101}, -\frac{300}{2101}, -\frac{625}{2101}, \frac{25}{2101}, \frac{175}{2101}, \frac{500}{2101}, \frac{25}{2101})$ $+ \frac{50}{2101}\sqrt{102e^3} \otimes e_6 + \frac{50}{2101}\sqrt{834e^2} \otimes e_4$	{134578, 345}
932:15	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{14e^{12}}, \frac{1}{7}\sqrt{22e^{13}} + \frac{2}{7}\sqrt{3e^{27}},$ $\frac{1}{7}\sqrt{6e^{17}} + \frac{1}{7}\sqrt{22e^{24}} + \frac{2}{7}\sqrt{3e^{35}}$	$(0, \frac{1}{7}, \frac{2}{7}, 0, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7})$ $+ \frac{2}{7}\sqrt{5e^3} \otimes e_5 + \frac{2}{7}\sqrt{5e^4} \otimes e_6$	{1568, 567}
932:15	$0, 0, 0, 0, 0, 0, \frac{68}{571}\sqrt{38e^{12}}, \frac{2}{571}\sqrt{49742e^{13}} + \frac{2}{571}\sqrt{44897e^{27}},$ $\frac{6}{571}\sqrt{323e^{17}} + \frac{2}{571}\sqrt{49742e^{24}} + \frac{4}{571}\sqrt{23902e^{35}}$	$(\frac{127}{571}, -\frac{21}{571}, -\frac{42}{571}, \frac{254}{571}, \frac{275}{571}, -\frac{371}{571}, \frac{106}{571}, \frac{85}{571}, \frac{233}{571})$ $+ \frac{2}{571}\sqrt{152133e^5} \otimes e_6$	{12358, 136789, 2357, 369}
932:15	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{21e^{12}}, \frac{1}{49}\sqrt{798e^{13}} + \frac{3}{49}\sqrt{42e^{27}},$ $\frac{4}{49}\sqrt{21e^{17}} + \frac{2}{49}\sqrt{42e^{24}} + \frac{3}{49}\sqrt{42e^{35}}$	$(0, \frac{1}{7}, \frac{2}{7}, 0, -\frac{1}{7}, -\frac{3}{7}, \frac{1}{7}, \frac{2}{7}, \frac{1}{7})$ $+ \frac{2}{49}\sqrt{210e^3} \otimes e_5 + \frac{3}{49}\sqrt{42e^1} \otimes e_6$	{137, 368}
932:15	$0, 0, 0, 0, 0, 0, \frac{5}{21}\sqrt{6e^{12}}, \frac{4}{21}\sqrt{15e^{13}} + \frac{21}{21}\sqrt{6e^{27}},$ $\frac{1}{21}\sqrt{114e^{17}} + \frac{4}{21}\sqrt{15e^{24}} + \frac{1}{21}\sqrt{102e^{35}}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, 0, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{21}\sqrt{30e^5} \otimes e_6 + \frac{1}{21}\sqrt{318e^4} \otimes e_8$	{126789, 158}
932:15	$0, 0, 0, 0, 0, 0, \frac{47}{3661}\sqrt{1090e^{12}}, \frac{47}{3661}\sqrt{1954e^{13}} + \frac{282}{3661}\sqrt{35e^{27}},$ $\frac{47}{3661}\sqrt{510e^{17}} + \frac{188}{3661}\sqrt{127e^{24}} + \frac{94}{3661}\sqrt{30e^{35}}$	$(-\frac{47}{523}, \frac{517}{3661}, \frac{1034}{3661}, -\frac{94}{523}, -\frac{1175}{3661}, \frac{2068}{3661}, \frac{188}{3661}, \frac{705}{3661}, -\frac{141}{3661})$ $+ \frac{141}{3661}\sqrt{354e^3} \otimes e_5 + \frac{282}{3661}\sqrt{95e^6} \otimes e_9$	{1245678, 2456}
932:15	$0, 0, 0, 0, 0, 0, \frac{23}{1261}\sqrt{562e^{12}}, \frac{23}{1261}\sqrt{1318e^{13}} + \frac{138}{1261}e^{27},$ $\frac{46}{1261}\sqrt{102e^{17}} + \frac{46}{1261}\sqrt{133e^{24}} + \frac{23}{1261}\sqrt{426e^{35}}$	$(-\frac{92}{1261}, \frac{115}{1261}, \frac{230}{1261}, -\frac{184}{1261}, -\frac{23}{97}, \frac{667}{1261}, \frac{23}{1261}, \frac{138}{1261}, -\frac{69}{1261})$ $+ \frac{138}{1261}\sqrt{33e^3} \otimes e_5 + \frac{69}{1261}\sqrt{130e^6} \otimes e_8$	{158, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:15	$0, 0, 0, 0, 0, \frac{1}{4669}\sqrt{4246e^{12}}, \frac{11}{4669}\sqrt{58e^{13}} + \frac{2}{4669}\sqrt{367e^{27}},$ $\frac{1}{4669}\sqrt{2634e^{17}} + \frac{2}{4669}\sqrt{1462e^{24}} + \frac{2}{4669}\sqrt{842e^{35}}$	$(-\frac{5}{4669}, -\frac{3}{4669}, -\frac{6}{4669}, -\frac{10}{4669}, -\frac{1}{667}, \frac{64}{4669}, -\frac{8}{4669}, -\frac{11}{4669}, -\frac{13}{4669})$ $+\frac{10}{4669}\sqrt{57e^4} \otimes e_8 + \frac{3}{4669}\sqrt{390e^3} \otimes e_5$	{1568, 158}
932:15	$0, 0, 0, 0, 0, \frac{4}{101}\sqrt{253e^{12}}, \frac{2}{101}\sqrt{1606e^{13}} + \frac{4}{101}\sqrt{22e^{27}},$ $\frac{22}{101}\sqrt{6e^{17}} + \frac{2}{101}\sqrt{1606e^{24}} + \frac{2}{101}\sqrt{770e^{35}}$	$(\frac{14}{101}, -\frac{15}{101}, -\frac{30}{101}, \frac{28}{101}, \frac{43}{101}, \frac{8}{101}, -\frac{1}{101}, -\frac{16}{101}, \frac{13}{101})$ $+\frac{2}{101}\sqrt{2046e^4} \otimes e_8$	{126789, 12789, 1568, 158}
932:15	$0, 0, 0, 0, 0, \frac{40}{1787}\sqrt{89e^{12}}, \frac{40}{1787}\sqrt{13e^{13}} + \frac{40}{1787}\sqrt{411e^{27}},$ $\frac{40}{1787}\sqrt{39e^{17}} + \frac{40}{1787}\sqrt{77e^{24}} + \frac{120}{1787}\sqrt{70e^{35}}$	$(\frac{140}{1787}, -\frac{220}{1787}, -\frac{440}{1787}, \frac{280}{1787}, \frac{500}{1787}, \frac{860}{1787}, -\frac{80}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+\frac{120}{1787}\sqrt{103e^5} \otimes e_8 + \frac{120}{1787}\sqrt{73e^6} \otimes e_9$	{1268, 59}
932:15	$0, 0, 0, 0, 0, \frac{22}{587}\sqrt{470e^{12}}, \frac{2}{587}\sqrt{35485e^{13}} + \frac{2}{587}\sqrt{59690e^{27}},$ $\frac{12}{587}\sqrt{235e^{17}} + \frac{4}{587}\sqrt{705e^{24}} + \frac{2}{587}\sqrt{21385e^{35}}$	$(\frac{43}{587}, \frac{79}{587}, \frac{158}{587}, \frac{86}{587}, \frac{7}{587}, -\frac{391}{587}, \frac{122}{587}, \frac{201}{587}, \frac{165}{587})$ $+\frac{2}{587}\sqrt{114915e^2} \otimes e_6$	{123458, 1346789, 23457, 3469}
932:15	$0, 0, 0, 0, 0, \frac{13}{781}\sqrt{842e^{12}}, \frac{13}{781}\sqrt{598e^{13}} + \frac{26}{781}\sqrt{239e^{27}},$ $\frac{13}{781}\sqrt{6e^{17}} + \frac{13}{781}\sqrt{714e^{24}} + \frac{26}{781}e^{35}$	$(-\frac{52}{781}, \frac{65}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{169}{781}, \frac{247}{781}, \frac{13}{781}, \frac{78}{781}, -\frac{39}{781})$ $+\frac{26}{781}\sqrt{267e^2} \otimes e_4 + \frac{26}{781}\sqrt{87e^6} \otimes e_8$	{134578, 3456}
932:15	$0, 0, 0, 0, 0, \frac{1}{139}\sqrt{8858e^{12}}, \frac{1}{139}\sqrt{7310e^{13}} + \frac{10}{139}\sqrt{86e^{27}},$ $\frac{3}{139}\sqrt{86e^{17}} + \frac{1}{139}\sqrt{7310e^{24}} + \frac{10}{139}\sqrt{5074e^{35}}$	$(-\frac{11}{139}, \frac{21}{139}, \frac{42}{139}, -\frac{22}{139}, -\frac{43}{139}, \frac{16}{139}, \frac{10}{139}, \frac{31}{139}, -\frac{1}{139})$ $+\frac{1}{139}\sqrt{10578e^2} \otimes e_4$	{1345678, 134578, 345, 3456}
932:15	$0, 0, 0, 0, 0, \frac{13}{301}\sqrt{30e^{12}}, \frac{13}{301}\sqrt{102e^{13}} + \frac{26}{301}\sqrt{30e^{27}},$ $\frac{13}{301}\sqrt{110e^{17}} + \frac{39}{301}\sqrt{6e^{24}} + \frac{26}{301}\sqrt{30e^{35}}$	$(\frac{52}{301}, -\frac{39}{301}, -\frac{78}{301}, \frac{104}{301}, \frac{143}{301}, -\frac{65}{301}, \frac{13}{301}, -\frac{26}{301}, \frac{65}{301})$ $+\frac{26}{301}\sqrt{85e^5} \otimes e_8 + \frac{26}{43}e^4 \otimes e_6$	{1356, 23689}
932:15	$0, 0, 0, 0, 0, \frac{13}{511}\sqrt{229e^{12}}, \frac{26}{511}\sqrt{143e^{13}} + \frac{13}{511}\sqrt{67e^{27}},$ $\frac{13}{511}\sqrt{111e^{17}} + \frac{39}{511}\sqrt{53e^{24}} + \frac{13}{511}\sqrt{287e^{35}}$	$(\frac{65}{511}, -\frac{52}{511}, -\frac{104}{511}, \frac{130}{511}, \frac{26}{511}, \frac{73}{511}, -\frac{104}{511}, \frac{13}{511}, -\frac{39}{511}, \frac{78}{511})$ $+\frac{13}{511}\sqrt{285e^1} \otimes e_6 + \frac{26}{511}\sqrt{165e^4} \otimes e_8$	{12789, 158}
932:15	$0, 0, 0, 0, 0, \frac{130}{961}\sqrt{7e^{12}}, \frac{260}{961}\sqrt{3e^{13}} + \frac{13}{961}\sqrt{109e^{27}},$ $\frac{13}{961}\sqrt{561e^{17}} + \frac{13}{961}\sqrt{995e^{24}} + \frac{26}{961}\sqrt{77e^{35}}$	$(\frac{78}{961}, -\frac{91}{961}, -\frac{91}{961}, \frac{156}{961}, \frac{13}{961}, -\frac{260}{961}, \frac{65}{961}, \frac{13}{961}, \frac{221}{961})$ $+\frac{13}{961}\sqrt{615e^3} \otimes e_6 + \frac{26}{961}\sqrt{303e^4} \otimes e_8$	{126789, 1568}
932:15	$0, 0, 0, 0, 0, \frac{58}{2749}\sqrt{463e^{12}}, \frac{29}{2749}\sqrt{2726e^{13}} + \frac{58}{2749}\sqrt{85e^{27}},$ $\frac{29}{2749}\sqrt{894e^{17}} + \frac{116}{2749}\sqrt{201e^{24}} + \frac{58}{2749}\sqrt{266e^{35}}$	$(\frac{203}{2749}, -\frac{319}{2749}, -\frac{638}{2749}, \frac{406}{2749}, \frac{725}{2749}, \frac{928}{2749}, -\frac{116}{2749}, -\frac{435}{2749}, \frac{87}{2749})$ $+\frac{203}{2749}\sqrt{30e^6} \otimes e_9 + \frac{29}{2749}\sqrt{3642e^4} \otimes e_8$	{12789, 1568}
932:15	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{190e^{12}}, \frac{1}{35}\sqrt{874e^{13}} + \frac{1}{35}\sqrt{57e^{27}},$ $\frac{1}{35}\sqrt{399e^{17}} + \frac{1}{35}\sqrt{133e^{24}} + \frac{6}{35}\sqrt{19e^{35}}$	$(\frac{2}{35}, \frac{29}{140}, \frac{29}{70}, \frac{4}{35}, -\frac{13}{140}, -\frac{47}{70}, \frac{37}{140}, \frac{33}{70}, \frac{9}{28})$ $+\frac{3}{35}\sqrt{247e^3} \otimes e_6$	{1256789, 168, 2569, 67}
932:15	$0, 0, 0, 0, 0, \frac{34}{575}\sqrt{11e^{12}}, \frac{34}{575}\sqrt{47e^{13}} + \frac{204}{575}e^{27},$ $\frac{34}{575}\sqrt{141e^{17}} + \frac{136}{575}\sqrt{7e^{24}} + \frac{34}{575}\sqrt{123e^{35}}$	$(-\frac{7}{575}, \frac{11}{575}, \frac{22}{575}, -\frac{14}{575}, -\frac{1}{23}, 1, \frac{4}{575}, \frac{3}{115}, -\frac{3}{575})$ $+\frac{102}{575}\sqrt{53e^6} \otimes e_9$	{1259, 167, 25789, 68}
932:15	$0, 0, 0, 0, 0, \frac{25}{2209}\sqrt{2762e^{12}}, \frac{125}{2209}\sqrt{94e^{13}} + \frac{200}{2209}\sqrt{41e^{27}},$ $\frac{75}{2209}\sqrt{46e^{17}} + \frac{75}{2209}\sqrt{238e^{24}} + \frac{25}{2209}\sqrt{1726e^{35}}$	$(-\frac{175}{2209}, \frac{275}{2209}, \frac{550}{2209}, -\frac{350}{2209}, -\frac{625}{2209}, \frac{550}{2209}, \frac{100}{2209}, \frac{375}{2209}, -\frac{75}{2209})$ $+\frac{100}{2209}\sqrt{39e^6} \otimes e_9 + \frac{25}{2209}\sqrt{3318e^2} \otimes e_4$	{1345678, 3456}
932:15	$0, 0, 0, 0, 0, \frac{1}{26}\sqrt{406e^{12}}, \frac{2}{13}\sqrt{58e^{13}} + \frac{1}{13}\sqrt{87e^{27}},$ $\frac{1}{26}\sqrt{174e^{17}} + \frac{1}{26}\sqrt{493e^{24}} + \frac{1}{13}\sqrt{87e^{35}}$	$(-\frac{5}{52}, \frac{4}{13}, \frac{8}{13}, -\frac{5}{26}, -\frac{1}{2}, \frac{7}{52}, \frac{11}{52}, \frac{27}{52}, \frac{3}{26})$ $+\frac{3}{26}\sqrt{145e^3} \otimes e_5$	{1568, 158, 567, 57}
932:15	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{2714e^{12}}, \frac{1}{71}\sqrt{1298e^{13}} + \frac{2}{71}\sqrt{177e^{27}},$ $\frac{3}{71}\sqrt{354e^{17}} + \frac{3}{71}\sqrt{118e^{24}} + \frac{2}{71}\sqrt{177e^{35}}$	$(\frac{10}{71}, \frac{3}{71}, \frac{6}{71}, \frac{20}{71}, \frac{17}{71}, -\frac{49}{71}, \frac{13}{71}, \frac{16}{71}, \frac{23}{71})$ $+\frac{2}{71}\sqrt{1770e^1} \otimes e_6$	{123459, 1347, 23456789, 3468}
932:16	$0, 0, 0, 0, 0, \frac{1}{1413}\sqrt{206870e^{12}}, \frac{2}{1413}\sqrt{224990e^{13}} + \frac{8}{1413}\sqrt{9815e^{27}},$ $\frac{1}{1413}\sqrt{650810e^{17}} + \frac{1}{1413}\sqrt{336730e^{34}} + \frac{1}{1413}\sqrt{1040390e^{56}}$	$(\frac{1}{9}, -\frac{94}{1413}, -\frac{188}{1413}, \frac{136}{471}, \frac{724}{1413}, -\frac{56}{157}, \frac{7}{157}, -\frac{31}{1413}, \frac{220}{1413})$ $+\frac{2}{1413}\sqrt{463570e^5} \otimes e_8$	{1234579, 1356, 234689, 378}
932:16	$0, 0, 0, 0, 0, \frac{82}{2737}\sqrt{266e^{12}}, \frac{164}{2737}\sqrt{309e^{13}} + \frac{246}{2737}\sqrt{22e^{27}},$ $\frac{164}{2737}\sqrt{51e^{17}} + \frac{82}{2737}\sqrt{303e^{34}} + \frac{246}{2737}\sqrt{35e^{56}}$	$(-\frac{328}{2737}, \frac{902}{2737}, \frac{1804}{2737}, -\frac{1558}{2737}, \frac{123}{2737}, \frac{123}{2737}, \frac{82}{2737}, \frac{1476}{2737}, \frac{246}{2737})$ $+\frac{902}{2737}\sqrt{19e^3} \otimes e_4$	{14568, 148, 4567, 47}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:16	$0, 0, 0, 0, 0, 0, \frac{369}{7981}\sqrt{26}e^{12}, \frac{41}{7981}\sqrt{7446}e^{13} + \frac{82}{7981}\sqrt{583}e^{27},$ $\frac{82}{7981}\sqrt{971}e^{17} + \frac{123}{7981}\sqrt{302}e^{34} + \frac{82}{7981}\sqrt{1430}e^{56}$	$(-\frac{164}{7981}, \frac{451}{7981}, \frac{902}{7981}, -\frac{779}{7981}, \frac{2419}{7981}, -\frac{2296}{7981}, \frac{287}{7981}, \frac{738}{7981}, \frac{123}{7981})$ $+ \frac{41}{7981}\sqrt{9430}e^5 \otimes e_8 + \frac{82}{7981}\sqrt{1351}e^3 \otimes e_4$	{1356, 378}
932:16	$0, 0, 0, 0, 0, 0, \frac{2}{2877}\sqrt{435290}e^{12}, \frac{8}{2877}\sqrt{2291}e^{13} + \frac{8}{2877}\sqrt{25201}e^{27},$ $\frac{2}{2877}\sqrt{96222}e^{17} + \frac{2}{2877}\sqrt{297830}e^{34} + \frac{2}{2877}\sqrt{316158}e^{56}$	$(\frac{338}{2877}, \frac{220}{2877}, \frac{440}{2877}, \frac{152}{959}, \frac{913}{959}, -\frac{1843}{2877}, \frac{186}{959}, \frac{778}{2877}, \frac{128}{411})$ $+ \frac{4582}{2877}e^5 \otimes e_6$	{124589, 124689, 24579, 24679}
932:16	$0, 0, 0, 0, 0, 0, \frac{17}{365}\sqrt{6}e^{12}, \frac{51}{365}\sqrt{15}e^{13} + \frac{17}{365}\sqrt{259}e^{27},$ $\frac{17}{365}\sqrt{182}e^{17} + \frac{17}{365}\sqrt{254}e^{34} + \frac{17}{365}\sqrt{15}e^{56}$	$(\frac{17}{73}, -\frac{68}{365}, -\frac{136}{365}, \frac{238}{365}, \frac{51}{365}, \frac{51}{365}, \frac{17}{365}, -\frac{51}{365}, \frac{102}{365})$ $+ \frac{17}{365}\sqrt{613}e^4 \otimes e_8$	{134, 13456, 23589}
932:16	$0, 0, 0, 0, 0, 0, \frac{34}{1019}\sqrt{6}e^{12}, \frac{102}{1019}\sqrt{15}e^{13} + \frac{34}{1019}\sqrt{259}e^{27},$ $\frac{34}{1019}\sqrt{182}e^{17} + \frac{34}{1019}\sqrt{254}e^{34} + \frac{34}{1019}\sqrt{15}e^{56}$	$(\frac{170}{1019}, -\frac{136}{1019}, -\frac{272}{1019}, \frac{476}{1019}, \frac{391}{1019}, -\frac{187}{1019}, \frac{34}{1019}, -\frac{102}{1019}, \frac{204}{1019})$ $+ \frac{34}{1019}\sqrt{613}e^4 \otimes e_8 + \frac{578}{1019}e^5 \otimes e_6$	{23589, 23689}
932:17	$0, 0, 0, 0, 0, 0, \frac{16}{183}\sqrt{22}e^{12}, \frac{4}{183}\sqrt{781}e^{17} + \frac{8}{183}\sqrt{165}e^{34},$ $\frac{8}{183}\sqrt{187}e^{13} + \frac{44}{183}\sqrt{2}e^{27} + \frac{4}{183}\sqrt{1001}e^{56}$	$(-\frac{7}{183}, \frac{6}{61}, \frac{12}{61}, -\frac{32}{183}, \frac{92}{183}, -\frac{21}{61}, \frac{11}{183}, \frac{4}{183}, \frac{29}{183})$ $+ \frac{4}{183}\sqrt{1705}e^5 \otimes e_8$	{1248, 1567, 246789, 59}
932:17	$0, 0, 0, 0, 0, 0, \frac{16}{103}\sqrt{11}e^{12}, \frac{16}{103}\sqrt{6}e^{17} + \frac{48}{103}e^{34},$ $\frac{64}{103}\sqrt{3}e^{13} + \frac{16}{103}\sqrt{6}e^{27} + \frac{48}{103}e^{56}$	$(-\frac{16}{103}, \frac{32}{103}, \frac{64}{103}, -\frac{64}{103}, \frac{24}{103}, \frac{24}{103}, \frac{16}{103}, 0, \frac{48}{103})$ $+ \frac{32}{103}\sqrt{22}e^3 \otimes e_4$	{14569, 149, 457}
932:17	$0, 0, 0, 0, 0, 0, \frac{16}{167}\sqrt{11}e^{12}, \frac{16}{167}\sqrt{6}e^{17} + \frac{48}{167}e^{34},$ $\frac{64}{167}\sqrt{3}e^{13} + \frac{16}{167}\sqrt{6}e^{27} + \frac{48}{167}e^{56}$	$(-\frac{16}{167}, \frac{32}{167}, \frac{64}{167}, -\frac{64}{167}, \frac{88}{167}, -\frac{40}{167}, \frac{16}{167}, 0, \frac{48}{167})$ $+ \frac{128}{167}e^5 \otimes e_6 + \frac{32}{167}\sqrt{22}e^3 \otimes e_4$	{457, 467}
932:17	$0, 0, 0, 0, 0, 0, \frac{32}{3083}\sqrt{281}e^{12}, \frac{32}{3083}\sqrt{386}e^{17} + \frac{32}{3083}\sqrt{1067}e^{34},$ $\frac{192}{3083}\sqrt{14}e^{13} + \frac{32}{3083}\sqrt{170}e^{27} + \frac{32}{3083}\sqrt{1139}e^{56}$	$(\frac{176}{3083}, -\frac{112}{3083}, -\frac{224}{3083}, \frac{464}{3083}, \frac{752}{3083}, -\frac{800}{3083}, \frac{64}{3083}, \frac{240}{3083}, -\frac{48}{3083})$ $+ \frac{128}{3083}\sqrt{97}e^5 \otimes e_8 + \frac{64}{3083}\sqrt{298}e^4 \otimes e_9$	{123689, 3456}
932:17	$0, 0, 0, 0, 0, 0, \frac{8}{85}\sqrt{15}e^{12}, \frac{4}{85}\sqrt{145}e^{17} + \frac{8}{85}\sqrt{30}e^{34},$ $\frac{8}{85}\sqrt{30}e^{13} + \frac{4}{17}\sqrt{2}e^{27} + \frac{4}{85}\sqrt{185}e^{56}$	$(-\frac{1}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{4}{17}, \frac{8}{17}, -\frac{5}{17}, \frac{1}{17}, 0, \frac{3}{17})$ $+ \frac{4}{17}\sqrt{13}e^5 \otimes e_8 + \frac{8}{85}\sqrt{10}e^3 \otimes e_4$	{1248, 246789}
932:17	$0, 0, 0, 0, 0, 0, \frac{64}{2923}\sqrt{57}e^{12}, \frac{64}{2923}\sqrt{590}e^{17} + \frac{64}{2923}\sqrt{1067}e^{34},$ $\frac{128}{2923}\sqrt{78}e^{13} + \frac{64}{2923}\sqrt{874}e^{27} + \frac{64}{2923}\sqrt{579}e^{56}$	$(\frac{704}{2923}, -\frac{448}{2923}, -\frac{896}{2923}, \frac{1856}{2923}, -\frac{96}{2923}, -\frac{96}{2923}, \frac{256}{2923}, \frac{960}{2923}, -\frac{192}{2923})$ $+ \frac{128}{2923}\sqrt{610}e^4 \otimes e_9$	{1259, 4568, 48}
932:17	$0, 0, 0, 0, 0, 0, \frac{8}{141}\sqrt{77}e^{12}, \frac{8}{141}\sqrt{42}e^{17} + \frac{8}{47}\sqrt{7}e^{34},$ $\frac{16}{141}\sqrt{7}e^{13} + \frac{8}{141}\sqrt{42}e^{27} + \frac{8}{47}\sqrt{7}e^{56}$	$(\frac{16}{141}, \frac{4}{47}, \frac{8}{47}, \frac{20}{141}, \frac{44}{47}, -\frac{92}{141}, \frac{28}{141}, \frac{44}{141}, \frac{40}{141})$ $+ \frac{224}{141}e^5 \otimes e_6$	{123589, 123689, 134579, 134679}
932:17	$0, 0, 0, 0, 0, 0, \frac{64}{3947}\sqrt{57}e^{12}, \frac{64}{3947}\sqrt{590}e^{17} + \frac{64}{3947}\sqrt{1067}e^{34},$ $\frac{128}{3947}\sqrt{78}e^{13} + \frac{64}{3947}\sqrt{874}e^{27} + \frac{64}{3947}\sqrt{579}e^{56}$	$(\frac{704}{3947}, -\frac{448}{3947}, -\frac{896}{3947}, \frac{1856}{3947}, \frac{928}{3947}, -\frac{1120}{3947}, \frac{256}{3947}, \frac{960}{3947}, -\frac{192}{3947})$ $+ \frac{128}{3947}\sqrt{610}e^4 \otimes e_9 + \frac{2048}{3947}e^5 \otimes e_6$	{1259, 1269}
932:18	$0, 0, 0, 0, 0, 0, \frac{1}{66}\sqrt{158}e^{12}, \frac{1}{33}\sqrt{474}e^{17} + \frac{1}{33}\sqrt{1185}e^{34},$ $\frac{1}{66}\sqrt{1343}e^{15} + \frac{1}{22}\sqrt{158}e^{27} + \frac{1}{33}\sqrt{474}e^{36}$	$(\frac{7}{33}, \frac{1}{44}, \frac{8}{11}, -\frac{37}{132}, \frac{1}{22}, -\frac{31}{66}, \frac{31}{132}, \frac{59}{132}, \frac{17}{66})$ $+ \frac{1}{66}\sqrt{8611}e^3 \otimes e_6$	{2347, 267, 38, 468}
932:18	$0, 0, 0, 0, 0, 0, \frac{14}{297}\sqrt{65}e^{12}, \frac{7}{99}\sqrt{30}e^{17} + \frac{7}{297}\sqrt{1090}e^{34},$ $\frac{7}{297}\sqrt{1230}e^{15} + \frac{28}{297}\sqrt{10}e^{27} + \frac{7}{297}\sqrt{570}e^{36}$	$(-\frac{79}{297}, \frac{29}{99}, -\frac{7}{297}, -\frac{64}{297}, \frac{58}{99}, \frac{34}{99}, \frac{8}{297}, -\frac{71}{297}, \frac{95}{297})$ $+ \frac{14}{99}\sqrt{70}e^5 \otimes e_8$	{13689, 1489, 378, 4678}
932:18	$0, 0, 0, 0, 0, 0, \frac{22}{2345}\sqrt{437}e^{12}, \frac{198}{2345}\sqrt{2}e^{17} + \frac{22}{2345}\sqrt{913}e^{34},$ $\frac{22}{2345}\sqrt{87}e^{15} + \frac{44}{2345}\sqrt{221}e^{27} + \frac{44}{2345}\sqrt{58}e^{36}$	$(-\frac{121}{2345}, \frac{11}{335}, -\frac{88}{469}, \frac{55}{469}, \frac{22}{335}, \frac{473}{2345}, -\frac{44}{2345}, -\frac{33}{469}, \frac{33}{2345})$ $- \frac{22}{2345}\sqrt{1157}e^2 \otimes e_8 + \frac{22}{2345}\sqrt{947}e^4 \otimes e_9$	{129, 136789, 2347, 468}
932:18	$0, 0, 0, 0, 0, 0, \frac{22}{2345}\sqrt{437}e^{12}, \frac{198}{2345}\sqrt{2}e^{17} + \frac{22}{2345}\sqrt{913}e^{34},$ $\frac{22}{2345}\sqrt{87}e^{15} + \frac{44}{2345}\sqrt{221}e^{27} + \frac{44}{2345}\sqrt{58}e^{36}$	$(-\frac{121}{2345}, \frac{11}{335}, -\frac{88}{469}, \frac{55}{469}, \frac{22}{335}, \frac{473}{2345}, -\frac{44}{2345}, -\frac{33}{469}, \frac{33}{2345})$ $+ \frac{22}{2345}\sqrt{1157}e^2 \otimes e_8 + \frac{22}{2345}\sqrt{947}e^4 \otimes e_9$	{129, 136789, 2347, 468}
932:18	$0, 0, 0, 0, 0, 0, \frac{58}{6349}\sqrt{367}e^{12}, \frac{29}{6349}\sqrt{2298}e^{17} + \frac{29}{6349}\sqrt{5626}e^{34},$ $\frac{29}{6349}\sqrt{5422}e^{15} + \frac{116}{6349}\sqrt{130}e^{27} + \frac{29}{6349}\sqrt{1882}e^{36}$	$(-\frac{319}{6349}, \frac{29}{907}, -\frac{1363}{6349}, \frac{928}{6349}, \frac{58}{907}, \frac{1450}{6349}, -\frac{116}{6349}, -\frac{435}{6349}, \frac{87}{6349})$ $+ \frac{116}{6349}\sqrt{326}e^5 \otimes e_8 + \frac{232}{6349}\sqrt{101}e^4 \otimes e_9$	{1345, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:18	$0, 0, 0, 0, 0, 0, \frac{2}{45}\sqrt{11}e^{12}, \frac{1}{15}\sqrt{154}e^{17} + \frac{1}{45}\sqrt{66}e^{34},$ $\frac{11}{45}\sqrt{6}e^{15} + \frac{4}{45}\sqrt{33}e^{27} + \frac{1}{15}\sqrt{154}e^{36}$	$(-\frac{1}{5}, \frac{1}{5}, -\frac{1}{3}, \frac{2}{15}, \frac{2}{5}, \frac{8}{15}, 0, -\frac{1}{5}, \frac{1}{5})$ $+ \frac{2}{45}\sqrt{627}e^6 \otimes e_8$	{1248, 13467, 23789, 69}
932:18	$0, 0, 0, 0, 0, 0, \frac{1}{297}\sqrt{55195}e^{12}, \frac{2}{297}\sqrt{17430}e^{17} + \frac{1}{594}\sqrt{115370}e^{34},$ $\frac{1}{297}\sqrt{42330}e^{15} + \frac{1}{594}\sqrt{58930}e^{27} + \frac{1}{198}\sqrt{15355}e^{36}$	$(\frac{98}{297}, -\frac{73}{396}, \frac{29}{297}, \frac{449}{1188}, -\frac{73}{198}, -\frac{3}{22}, \frac{173}{1188}, \frac{565}{1188}, -\frac{23}{594})$ $+ \frac{1}{198}\sqrt{46895}e^1 \otimes e_5$	{123468, 128, 1367, 147}
932:18	$0, 0, 0, 0, 0, 0, \frac{2}{85}\sqrt{111}e^{12}, \frac{1}{85}\sqrt{834}e^{17} + \frac{1}{85}\sqrt{206}e^{34},$ $\frac{1}{85}\sqrt{494}e^{15} + \frac{4}{85}\sqrt{17}e^{27} + \frac{3}{85}\sqrt{66}e^{36}$	$(\frac{3}{85}, -\frac{3}{85}, -\frac{3}{17}, \frac{18}{85}, -\frac{6}{85}, \frac{12}{85}, 0, \frac{3}{85}, -\frac{3}{85})$ $+ \frac{12}{85}\sqrt{5}e^1 \otimes e_5 + \frac{2}{85}\sqrt{173}e^6 \otimes e_8$	{128, 1367}
932:18	$0, 0, 0, 0, 0, 0, \frac{2}{147}\sqrt{1462}e^{12}, \frac{1}{147}\sqrt{10922}e^{17} + \frac{2}{147}\sqrt{2279}e^{34},$ $\frac{1}{147}\sqrt{9030}e^{15} + \frac{1}{147}\sqrt{6106}e^{27} + \frac{2}{147}\sqrt{6235}e^{36}$	$(\frac{3}{196}, \frac{17}{98}, \frac{101}{147}, -\frac{71}{147}, \frac{17}{49}, -\frac{191}{588}, \frac{37}{196}, \frac{10}{49}, \frac{71}{196})$ $+ \frac{1}{147}\sqrt{42054}e^3 \otimes e_4$	{1367, 147, 39, 469}
932:18	$0, 0, 0, 0, 0, 0, \frac{94}{6421}\sqrt{1005}e^{12}, \frac{47}{6421}\sqrt{5690}e^{17} + \frac{705}{6421}\sqrt{14}e^{34},$ $\frac{141}{6421}\sqrt{430}e^{15} + \frac{94}{6421}\sqrt{465}e^{27} + \frac{47}{6421}\sqrt{4886}e^{36}$	$(\frac{1175}{6421}, -\frac{517}{6421}, \frac{2021}{6421}, -\frac{188}{6421}, -\frac{1034}{6421}, -\frac{1880}{6421}, \frac{658}{6421}, \frac{1833}{6421}, \frac{141}{6421})$ $+ \frac{94}{6421}\sqrt{1163}e^3 \otimes e_4 + \frac{94}{6421}\sqrt{1766}e^1 \otimes e_5$	{1367, 147}
932:18	$0, 0, 0, 0, 0, 0, \frac{10}{233}\sqrt{55}e^{12}, \frac{5}{233}\sqrt{110}e^{17} + \frac{25}{233}\sqrt{22}e^{34},$ $\frac{5}{233}\sqrt{330}e^{15} + \frac{10}{233}\sqrt{110}e^{27} + \frac{5}{233}\sqrt{110}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, -\frac{35}{233}, \frac{110}{233}, -\frac{70}{233}, \frac{20}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{170}e^1 \otimes e_5 + \frac{10}{233}\sqrt{335}e^4 \otimes e_9$	{1269, 13789}
932:18	$0, 0, 0, 0, 0, 0, \frac{14}{1203}\sqrt{695}e^{12}, \frac{1}{1203}\sqrt{593530}e^{17} + \frac{1}{1203}\sqrt{793690}e^{34},$ $\frac{5}{1203}\sqrt{25854}e^{15} + \frac{8}{1203}\sqrt{9035}e^{27} + \frac{1}{1203}\sqrt{115370}e^{36}$	$(\frac{77}{401}, -\frac{49}{401}, -\frac{317}{1203}, \frac{632}{1203}, -\frac{98}{401}, \frac{254}{1203}, \frac{28}{401}, \frac{105}{401}, -\frac{21}{401})$ $+ \frac{4}{1203}\sqrt{89655}e^4 \otimes e_9$	{1245678, 1345, 235689, 579}
932:18	$0, 0, 0, 0, 0, 0, \frac{26}{2415}\sqrt{273}e^{12}, \frac{13}{2415}\sqrt{4758}e^{17} + \frac{13}{2415}\sqrt{7086}e^{34},$ $\frac{13}{2415}\sqrt{4458}e^{15} + \frac{26}{2415}\sqrt{978}e^{27} + \frac{13}{2415}\sqrt{2010}e^{36}$	$(\frac{143}{805}, -\frac{13}{115}, \frac{13}{161}, \frac{26}{161}, -\frac{26}{115}, -\frac{104}{805}, \frac{52}{805}, \frac{39}{161}, -\frac{39}{805})$ $+ \frac{26}{2415}\sqrt{1266}e^3 \otimes e_6 + \frac{26}{805}\sqrt{229}e^4 \otimes e_9$	{1245678, 1345}
932:18	$0, 0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14}e^{12}, \frac{26}{277}\sqrt{19}e^{17} + \frac{26}{277}\sqrt{21}e^{34},$ $\frac{13}{277}\sqrt{106}e^{15} + \frac{26}{277}\sqrt{13}e^{27} + \frac{13}{277}\sqrt{38}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $- \frac{13}{277}\sqrt{302}e^5 \otimes e_8 + \frac{26}{277}\sqrt{47}e^3 \otimes e_4$	{1389, 14689, 3678, 478}
932:18	$0, 0, 0, 0, 0, 0, \frac{13}{277}\sqrt{14}e^{12}, \frac{26}{277}\sqrt{19}e^{17} + \frac{26}{277}\sqrt{21}e^{34},$ $\frac{13}{277}\sqrt{106}e^{15} + \frac{26}{277}\sqrt{13}e^{27} + \frac{13}{277}\sqrt{38}e^{36}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{13}{277}\sqrt{302}e^5 \otimes e_8 + \frac{26}{277}\sqrt{47}e^3 \otimes e_4$	{1389, 14689, 3678, 478}
932:18	$0, 0, 0, 0, 0, 0, \frac{10}{279}\sqrt{5}e^{12}, \frac{5}{93}\sqrt{70}e^{17} + \frac{25}{279}\sqrt{6}e^{34},$ $\frac{5}{279}\sqrt{402}e^{15} + \frac{10}{279}\sqrt{78}e^{27} + \frac{5}{93}\sqrt{94}e^{36}$	$(-\frac{5}{31}, \frac{5}{31}, \frac{5}{93}, -\frac{20}{93}, \frac{10}{31}, \frac{10}{93}, 0, -\frac{5}{31}, \frac{5}{31})$ $+ \frac{10}{279}\sqrt{222}e^6 \otimes e_8 + \frac{10}{31}\sqrt{2}e^3 \otimes e_4$	{1367, 469}
932:18	$0, 0, 0, 0, 0, 0, \frac{68}{2415}\sqrt{69}e^{12}, \frac{17}{2415}\sqrt{678}e^{17} + \frac{17}{2415}\sqrt{6126}e^{34},$ $\frac{17}{2415}\sqrt{4542}e^{15} + \frac{136}{2415}\sqrt{3}e^{27} + \frac{17}{2415}\sqrt{3210}e^{36}$	$(-\frac{17}{161}, \frac{17}{115}, \frac{221}{805}, -\frac{272}{805}, \frac{34}{115}, -\frac{68}{805}, \frac{34}{805}, -\frac{51}{805}, \frac{153}{805})$ $+ \frac{34}{805}\sqrt{211}e^5 \otimes e_8 + \frac{68}{2415}\sqrt{354}e^3 \otimes e_6$	{1345, 156}
932:20	$0, 0, 0, 0, 0, 0, \frac{117}{269}\sqrt{2}e^{12}, \frac{13}{269}\sqrt{274}e^{13} + \frac{39}{269}\sqrt{6}e^{27},$ $\frac{52}{269}\sqrt{11}e^{17} + \frac{13}{269}\sqrt{278}e^{24} + \frac{26}{269}\sqrt{3}e^{56}$	$(\frac{65}{269}, -\frac{52}{269}, -\frac{104}{269}, \frac{130}{269}, \frac{39}{269}, \frac{39}{269}, \frac{13}{269}, -\frac{39}{269}, \frac{78}{269})$ $+ \frac{26}{269}\sqrt{118}e^4 \otimes e_8$	{235689, 2389, 3578}
932:20	$0, 0, 0, 0, 0, 0, \frac{8}{2271}\sqrt{1106}e^{12}, \frac{8}{2271}\sqrt{27966}e^{13} + \frac{52}{2271}\sqrt{790}e^{27},$ $\frac{8}{2271}\sqrt{26465}e^{17} + \frac{8}{2271}\sqrt{11929}e^{24} + \frac{4}{2271}\sqrt{170798}e^{56}$	$(\frac{104}{757}, -\frac{193}{2271}, -\frac{386}{2271}, \frac{208}{757}, \frac{1190}{2271}, -\frac{253}{757}, \frac{119}{2271}, -\frac{74}{2271}, \frac{431}{2271})$ $+ \frac{4}{2271}\sqrt{307942}e^5 \otimes e_8$	{1234579, 13456, 234689, 3478}
932:20	$0, 0, 0, 0, 0, 0, \frac{50}{2209}\sqrt{1318}e^{12}, \frac{100}{2209}\sqrt{203}e^{13} + \frac{350}{2209}\sqrt{26}e^{27},$ $\frac{100}{2209}\sqrt{33}e^{17} + \frac{50}{2209}\sqrt{933}e^{24} + \frac{550}{2209}\sqrt{3}e^{56}$	$(-\frac{350}{2209}, \frac{550}{2209}, \frac{1100}{2209}, -\frac{700}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, \frac{200}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{50}{2209}\sqrt{1921}e^2 \otimes e_4$	{1345678, 13478, 34, 3456}
932:20	$0, 0, 0, 0, 0, 0, \frac{525}{4549}\sqrt{6}e^{12}, \frac{25}{4549}\sqrt{314}e^{13} + \frac{150}{4549}\sqrt{123}e^{27},$ $\frac{50}{4549}\sqrt{299}e^{17} + \frac{50}{4549}\sqrt{669}e^{24} + \frac{50}{4549}\sqrt{734}e^{56}$	$(-\frac{175}{4549}, \frac{275}{4549}, \frac{550}{4549}, -\frac{350}{4549}, \frac{1000}{4549}, -\frac{1075}{4549}, \frac{100}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+ \frac{125}{4549}\sqrt{166}e^5 \otimes e_8 + \frac{25}{4549}\sqrt{4162}e^2 \otimes e_4$	{1238, 23567}
932:20	$0, 0, 0, 0, 0, 0, \frac{13}{269}\sqrt{310}e^{12}, \frac{39}{269}\sqrt{22}e^{13} + \frac{39}{269}\sqrt{6}e^{27},$ $\frac{26}{269}\sqrt{74}e^{17} + \frac{13}{269}\sqrt{194}e^{24} + \frac{26}{269}\sqrt{3}e^{56}$	$(\frac{65}{269}, -\frac{52}{269}, -\frac{104}{269}, \frac{130}{269}, \frac{39}{269}, \frac{39}{269}, \frac{13}{269}, -\frac{39}{269}, \frac{78}{269})$ $+ \frac{26}{269}\sqrt{118}e^1 \otimes e_3$	{2345679, 23479, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:20	$0, 0, 0, 0, 0, 0, \frac{234}{707}\sqrt{2}e^{12}, \frac{26}{707}\sqrt{274}e^{13} + \frac{78}{707}\sqrt{6}e^{27},$ $\frac{104}{707}\sqrt{11}e^{17} + \frac{26}{707}\sqrt{278}e^{24} + \frac{52}{707}\sqrt{3}e^{56}$	$(\frac{130}{707}, -\frac{104}{707}, -\frac{208}{707}, \frac{260}{707}, \frac{247}{707}, -\frac{13}{101}, \frac{26}{707}, -\frac{78}{707}, \frac{156}{707})$ $+ \frac{338}{707}e^5 \otimes e_6 + \frac{52}{707}\sqrt{118}e^4 \otimes e_8$	{3578, 3678}
932:20	$0, 0, 0, 0, 0, 0, \frac{2}{2253}\sqrt{233870}e^{12}, \frac{2}{751}\sqrt{10794}e^{13} + \frac{2}{2253}\sqrt{205086}e^{27},$ $\frac{8}{2253}\sqrt{5397}e^{17} + \frac{2}{2253}\sqrt{17990}e^{24} + \frac{4}{2253}\sqrt{59367}e^{56}$	$(\frac{74}{751}, \frac{200}{2253}, \frac{400}{2253}, \frac{148}{751}, \frac{707}{751}, -\frac{1477}{2253}, \frac{422}{2253}, \frac{622}{2253}, \frac{644}{2253})$ $+ \frac{3598}{2253}e^5 \otimes e_6$	{12589, 12689, 2579, 2679}
932:20	$0, 0, 0, 0, 0, 0, \frac{13}{367}\sqrt{177}e^{12}, \frac{26}{367}\sqrt{3}e^{13} + \frac{13}{367}\sqrt{187}e^{27},$ $\frac{13}{367}\sqrt{51}e^{17} + \frac{13}{367}\sqrt{173}e^{24} + \frac{13}{367}\sqrt{191}e^{56}$	$(\frac{65}{367}, -\frac{52}{367}, -\frac{104}{367}, \frac{130}{367}, \frac{130}{367}, -\frac{52}{367}, \frac{13}{367}, -\frac{39}{367}, \frac{78}{367})$ $+ \frac{13}{367}\sqrt{283}e^1 \otimes e_3 + \frac{26}{367}\sqrt{91}e^5 \otimes e_8$	{124689, 1478}
932:20	$0, 0, 0, 0, 0, 0, \frac{150}{2209}\sqrt{67}e^{12}, \frac{50}{2209}\sqrt{1109}e^{13} + \frac{50}{2209}\sqrt{647}e^{27},$ $\frac{100}{2209}\sqrt{33}e^{17} + \frac{100}{2209}\sqrt{247}e^{24} + \frac{550}{2209}\sqrt{3}e^{56}$	$(-\frac{350}{2209}, \frac{550}{2209}, \frac{1100}{2209}, -\frac{700}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, \frac{200}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{50}{2209}\sqrt{1921}e^3 \otimes e_9$	{14589, 4579}
932:20	$0, 0, 0, 0, 0, 0, \frac{75}{1417}\sqrt{67}e^{12}, \frac{25}{1417}\sqrt{1109}e^{13} + \frac{25}{1417}\sqrt{647}e^{27},$ $\frac{50}{1417}\sqrt{33}e^{17} + \frac{50}{1417}\sqrt{247}e^{24} + \frac{275}{1417}\sqrt{3}e^{56}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{1921}e^3 \otimes e_9 - \frac{625}{1417}e^5 \otimes e_6$	{14589, 14689, 4579, 4679}
932:20	$0, 0, 0, 0, 0, 0, \frac{50}{4549}\sqrt{379}e^{12}, \frac{50}{4549}\sqrt{962}e^{13} + \frac{25}{4549}\sqrt{266}e^{27},$ $\frac{50}{4549}\sqrt{299}e^{17} + \frac{25}{4549}\sqrt{1486}e^{24} + \frac{50}{4549}\sqrt{734}e^{56}$	$(-\frac{175}{4549}, \frac{275}{4549}, \frac{550}{4549}, -\frac{350}{4549}, \frac{1000}{4549}, -\frac{1075}{4549}, \frac{100}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+ \frac{125}{4549}\sqrt{166}e^5 \otimes e_8 + \frac{25}{4549}\sqrt{4162}e^3 \otimes e_9$	{1356, 378}
932:20	$0, 0, 0, 0, 0, 0, \frac{75}{1417}\sqrt{67}e^{12}, \frac{25}{1417}\sqrt{1109}e^{13} + \frac{25}{1417}\sqrt{647}e^{27},$ $\frac{50}{1417}\sqrt{33}e^{17} + \frac{50}{1417}\sqrt{247}e^{24} + \frac{275}{1417}\sqrt{3}e^{56}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{1921}e^3 \otimes e_9 + \frac{625}{1417}e^5 \otimes e_6$	{14589, 14689, 4579, 4679}
932:20	$0, 0, 0, 0, 0, 0, \frac{26}{707}\sqrt{310}e^{12}, \frac{78}{707}\sqrt{22}e^{13} + \frac{78}{707}\sqrt{6}e^{27},$ $\frac{52}{707}\sqrt{74}e^{17} + \frac{26}{707}\sqrt{194}e^{24} + \frac{52}{707}\sqrt{3}e^{56}$	$(\frac{130}{707}, -\frac{104}{707}, -\frac{208}{707}, \frac{260}{707}, \frac{247}{707}, -\frac{13}{101}, \frac{26}{707}, -\frac{78}{707}, \frac{156}{707})$ $+ \frac{338}{707}e^5 \otimes e_6 + \frac{52}{707}\sqrt{118}e^1 \otimes e_3$	{345, 346}
932:21	$0, 0, 0, 0, 0, 0, \frac{4}{41}\sqrt{62}e^{12}, \frac{4}{41}\sqrt{74}e^{17} + \frac{4}{41}\sqrt{34}e^{24} + \frac{12}{41}\sqrt{2}e^{35},$ $\frac{8}{41}\sqrt{3}e^{13} + \frac{12}{41}\sqrt{2}e^{27} + \frac{8}{41}\sqrt{7}e^{45}$	$(\frac{4}{41}, \frac{4}{41}, \frac{8}{41}, \frac{8}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^1 \otimes e_6$	{123458, 3469}
932:21	$0, 0, 0, 0, 0, 0, \frac{4}{41}\sqrt{62}e^{12}, \frac{8}{41}\sqrt{7}e^{17} + \frac{16}{41}\sqrt{5}e^{24} + \frac{4}{41}\sqrt{74}e^{35},$ $\frac{16}{41}\sqrt{5}e^{13} + \frac{8}{41}\sqrt{7}e^{27} + \frac{4}{41}\sqrt{74}e^{45}$	$(\frac{4}{41}, \frac{4}{41}, \frac{8}{41}, \frac{8}{41}, \frac{4}{41}, -\frac{28}{41}, \frac{8}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{4}{41}\sqrt{138}e^5 \otimes e_6$	{1234689, 345}
932:21	$0, 0, 0, 0, 0, 0, \frac{17}{301}\sqrt{106}e^{12}, \frac{34}{301}\sqrt{42}e^{17} + \frac{68}{301}\sqrt{7}e^{24} + \frac{102}{301}\sqrt{5}e^{35},$ $\frac{17}{301}\sqrt{286}e^{13} + \frac{17}{301}\sqrt{6}e^{27} + \frac{34}{301}\sqrt{42}e^{45}$	$(\frac{34}{301}, \frac{34}{301}, \frac{68}{301}, \frac{68}{301}, \frac{34}{301}, -\frac{221}{301}, \frac{68}{301}, \frac{102}{301}, \frac{102}{301})$ $+ \frac{51}{301}\sqrt{58}e^3 \otimes e_6$	{135, 2389}
932:22	$0, 0, 0, 0, 0, 0, \frac{10}{469}\sqrt{1010}e^{13} + \frac{10}{469}\sqrt{715}e^{27} + \frac{10}{469}\sqrt{65}e^{45},$ $\frac{10}{469}\sqrt{745}e^{17} + \frac{10}{469}\sqrt{355}e^{34} + \frac{30}{469}\sqrt{130}e^{56}$	$(\frac{55}{469}, -\frac{5}{67}, -\frac{10}{67}, \frac{145}{469}, -\frac{160}{469}, \frac{235}{469}, \frac{20}{469}, -\frac{15}{469}, \frac{75}{469})$ $- \frac{20}{469}\sqrt{510}e^6 \otimes e_8$	{1234679, 1356, 234589, 378}
932:22	$0, 0, 0, 0, 0, 0, \frac{10}{469}\sqrt{1010}e^{13} + \frac{10}{469}\sqrt{715}e^{27} + \frac{10}{469}\sqrt{65}e^{45},$ $\frac{10}{469}\sqrt{745}e^{17} + \frac{10}{469}\sqrt{355}e^{34} + \frac{30}{469}\sqrt{130}e^{56}$	$(\frac{55}{469}, -\frac{5}{67}, -\frac{10}{67}, \frac{145}{469}, -\frac{160}{469}, \frac{235}{469}, \frac{20}{469}, -\frac{15}{469}, \frac{75}{469})$ $+ \frac{20}{469}\sqrt{510}e^6 \otimes e_8$	{1234679, 1356, 234589, 378}
932:22	$0, 0, 0, 0, 0, 0, \frac{1022}{4621}\sqrt{5}e^{12}, \frac{2774}{4621}e^{13} + \frac{73}{4621}\sqrt{1382}e^{27} + \frac{73}{4621}\sqrt{4834}e^{45},$ $\frac{146}{4621}\sqrt{563}e^{17} + \frac{146}{4621}\sqrt{214}e^{34} + \frac{73}{4621}\sqrt{1578}e^{56}$	$(-\frac{146}{4621}, \frac{949}{4621}, \frac{1898}{4621}, -\frac{1241}{4621}, \frac{2993}{4621}, -\frac{2336}{4621}, \frac{803}{4621}, \frac{1752}{4621}, \frac{657}{4621})$ $+ \frac{73}{4621}\sqrt{7746}e^5 \otimes e_6$	{1457, 468}
932:23	$0, 0, 0, 0, 0, 0, \frac{22}{327}\sqrt{33}e^{12}, \frac{11}{327}\sqrt{438}e^{17} - \frac{22}{327}\sqrt{93}e^{23} + \frac{11}{327}\sqrt{534}e^{45},$ $\frac{55}{109}\sqrt{2}e^{13} + \frac{88}{327}\sqrt{6}e^{27} + \frac{11}{327}\sqrt{1110}e^{46}$	$(\frac{11}{109}, \frac{11}{109}, \frac{22}{109}, \frac{77}{109}, -\frac{44}{109}, -\frac{44}{109}, \frac{22}{109}, \frac{33}{109}, \frac{33}{109})$ $+ \frac{22}{327}\sqrt{411}e^4 \otimes e_5$	{1467, 157, 49, 569, 1467, 157, 49, 569}
932:23	$0, 0, 0, 0, 0, 0, \frac{22}{327}\sqrt{33}e^{12}, \frac{11}{327}\sqrt{438}e^{17} + \frac{22}{327}\sqrt{93}e^{23} + \frac{11}{327}\sqrt{534}e^{45},$ $\frac{55}{109}\sqrt{2}e^{13} + \frac{88}{327}\sqrt{6}e^{27} + \frac{11}{327}\sqrt{1110}e^{46}$	$(\frac{11}{109}, \frac{11}{109}, \frac{22}{109}, \frac{77}{109}, -\frac{44}{109}, -\frac{44}{109}, \frac{22}{109}, \frac{33}{109}, \frac{33}{109})$ $+ \frac{22}{327}\sqrt{411}e^4 \otimes e_5$	{1467, 157, 49, 569, 1467, 157, 49, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
932:24	$0, 0, 0, 0, 0, \frac{4}{19}\sqrt{22}e^{12}, \frac{8}{19}\sqrt{3}e^{17} + \frac{8}{19}\sqrt{7}e^{24} + \frac{12}{19}\sqrt{2}e^{35},$ $\frac{8}{19}\sqrt{10}e^{13} + \frac{8}{19}\sqrt{3}e^{27} + \frac{12}{19}\sqrt{2}e^{46}$	$(-\frac{2}{19}, \frac{4}{19}, \frac{8}{19}, -\frac{4}{19}, -\frac{8}{19}, \frac{10}{19}, \frac{2}{19}, 0, \frac{6}{19})$ $+ \frac{24}{19}e^3 \otimes e_5$	{159, 567}
932:24	$0, 0, 0, 0, 0, \frac{32}{1283}\sqrt{449}e^{12},$ $\frac{32}{1283}\sqrt{30}e^{17} + \frac{128}{1283}\sqrt{47}e^{24} + \frac{96}{1283}\sqrt{91}e^{35},$ $\frac{448}{1283}\sqrt{2}e^{13} + \frac{52}{1283}\sqrt{618}e^{27} + \frac{96}{1283}\sqrt{67}e^{46}$	$(\frac{176}{1283}, -\frac{112}{1283}, -\frac{224}{1283}, \frac{352}{1283}, \frac{464}{1283}, -\frac{400}{1283}, \frac{64}{1283}, \frac{240}{1283}, -\frac{48}{1283})$ $+ \frac{192}{1283}\sqrt{30}e^5 \otimes e_9$	{136789, 2357}
932:25	$0, 0, 0, 0, 0, \frac{10}{593}\sqrt{715}e^{12},$ $\frac{60}{593}\sqrt{10}e^{17} + \frac{5}{593}\sqrt{4830}e^{25} + \frac{25}{593}\sqrt{122}e^{34},$ $\frac{40}{593}\sqrt{65}e^{13} + \frac{5}{593}\sqrt{10}e^{27} + \frac{5}{593}\sqrt{2010}e^{46}$	$(\frac{55}{593}, -\frac{35}{593}, -\frac{70}{593}, \frac{145}{593}, \frac{110}{593}, -\frac{160}{593}, \frac{20}{593}, \frac{75}{593}, -\frac{15}{593})$ $+ \frac{20}{593}\sqrt{345}e^5 \otimes e_9$	{126789, 149}
932:25	$0, 0, 0, 0, 0, \frac{13}{781}\sqrt{1190}e^{12},$ $\frac{13}{781}\sqrt{6}e^{17} + \frac{39}{781}\sqrt{118}e^{25} + \frac{104}{781}\sqrt{13}e^{34},$ $\frac{13}{781}\sqrt{946}e^{13} + \frac{26}{781}\sqrt{326}e^{27} + \frac{26}{781}\sqrt{87}e^{46}$	$(-\frac{52}{781}, \frac{65}{781}, \frac{130}{781}, -\frac{169}{781}, -\frac{104}{781}, \frac{247}{781}, \frac{13}{781}, -\frac{39}{781}, \frac{78}{781})$ $+ \frac{26}{781}\sqrt{354}e^2 \otimes e_5$	{1345679, 345}
932:25	$0, 0, 0, 0, 0, \frac{118}{3229}\sqrt{395}e^{12},$ $\frac{118}{3229}\sqrt{102}e^{17} + \frac{177}{3229}\sqrt{226}e^{25} + \frac{59}{3229}\sqrt{3886}e^{34},$ $\frac{118}{3229}\sqrt{418}e^{13} + \frac{59}{3229}\sqrt{2078}e^{27} + \frac{59}{3229}\sqrt{1086}e^{46}$	$(\frac{767}{3229}, -\frac{295}{3229}, -\frac{590}{3229}, \frac{1829}{3229}, \frac{1534}{3229}, -\frac{1652}{3229}, \frac{472}{3229}, \frac{1239}{3229}, \frac{177}{3229})$ $+ \frac{236}{3229}\sqrt{339}e^4 \otimes e_6$	{2347, 368}
932:25	$0, 0, 0, 0, 0, \frac{86}{3325}\sqrt{31}e^{12},$ $\frac{344}{3325}\sqrt{39}e^{17} + \frac{129}{3325}\sqrt{238}e^{25} + \frac{43}{3325}\sqrt{122}e^{34},$ $\frac{344}{3325}\sqrt{13}e^{13} + \frac{43}{3325}\sqrt{2026}e^{27} + \frac{43}{3325}\sqrt{3210}e^{46}$	$(-\frac{43}{475}, \frac{473}{3325}, \frac{946}{3325}, -\frac{43}{133}, -\frac{86}{475}, \frac{344}{665}, \frac{172}{3325}, -\frac{129}{3325}, \frac{129}{665})$ $+ \frac{172}{3325}\sqrt{357}e^6 \otimes e_8$	{1235679, 134589}
931:1	$0, 0, 0, 0, 0, \frac{2}{1753}\sqrt{20145}e^{12}, \frac{1}{1753}\sqrt{357870}e^{13}, \frac{2}{1753}\sqrt{57670}e^{17}$	$(-\frac{88}{1753}, \frac{36}{1753}, \frac{255}{1753}, -\frac{483}{1753}, \frac{562}{1753}, \frac{138}{1753}, -\frac{52}{1753}, \frac{167}{1753}, -\frac{140}{1753})$ $+ \frac{10}{1753}\sqrt{4503}e^3 \otimes e_9 + \frac{3}{1753}\sqrt{54510}e^1 \otimes e_4 + \frac{4}{1753}\sqrt{20935}e^5 \otimes e_8$	{12689, 1289, 13567, 1357, 245679, 24579, 3468, 348}
931:1	$0, 0, 0, 0, 0, \frac{2}{47}\sqrt{51}e^{12}, \frac{1}{47}\sqrt{323}e^{13}, \frac{5}{47}\sqrt{17}e^{17}$	$(-\frac{1}{94}, -\frac{1}{47}, \frac{15}{47}, -\frac{35}{94}, \frac{5}{47}, \frac{5}{47}, -\frac{3}{94}, \frac{29}{94}, -\frac{2}{47})$ $+ \frac{1}{47}\sqrt{663}e^3 \otimes e_9 + \frac{3}{47}\sqrt{85}e^1 \otimes e_4$	{125689, 12589, 1289, 13567, 1357, 137, 245679, 24579, 2479, 34568, 3458, 348}
931:1	$0, 0, 0, 0, 0, \frac{1}{107}\sqrt{1430}e^{12}, \frac{3}{107}\sqrt{330}e^{13}, \frac{1}{107}\sqrt{1430}e^{17}$	$(\frac{13}{107}, -\frac{1}{107}, -\frac{15}{107}, \frac{53}{107}, -\frac{42}{107}, \frac{12}{107}, \frac{12}{107}, -\frac{2}{107}, \frac{25}{107})$ $+ \frac{1}{107}\sqrt{4510}e^4 \otimes e_8 + \frac{6}{107}\sqrt{165}e^1 \otimes e_5$	{123469, 12349, 12689, 1289, 13467, 1347, 1678, 178, 2356789, 235789, 245679, 24579, 3568, 358, 45, 456}
931:1	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13}, \frac{2}{9}\sqrt{7}e^{17}$	$(-\frac{1}{9}, \frac{1}{18}, \frac{1}{6}, \frac{1}{2}, \frac{11}{18}, -\frac{5}{18}, -\frac{1}{18}, \frac{1}{18}, -\frac{1}{6})$ $+ \frac{1}{3}\sqrt{7}e^5 \otimes e_9 + \frac{7}{9}e^4 \otimes e_6$	{123489, 123689, 1249, 1269, 134578, 135678, 1457, 1567, 23479, 23679, 24789, 26789, 345, 356, 458, 568}
931:1	$0, 0, 0, 0, 0, \frac{4}{699}\sqrt{759}e^{12}, \frac{4}{699}\sqrt{7337}e^{13}, \frac{22}{699}\sqrt{230}e^{17}$	$(\frac{232}{699}, -\frac{274}{699}, -\frac{12}{233}, \frac{111}{233}, -\frac{173}{699}, \frac{80}{699}, -\frac{14}{233}, \frac{196}{699}, \frac{190}{699})$ $+ \frac{2}{699}\sqrt{92598}e^1 \otimes e_2 + \frac{506}{699}e^4 \otimes e_5$	{13469, 1349, 13569, 1359, 14689, 1489, 15689, 1589, 23468, 2348, 23568, 2358, 24, 246, 25, 256}
931:1	$0, 0, 0, 0, 0, \frac{6}{461}\sqrt{22}e^{12}, \frac{24}{461}\sqrt{22}e^{13}, \frac{66}{461}\sqrt{10}e^{17}$	$(\frac{64}{461}, -\frac{134}{461}, \frac{6}{461}, \frac{137}{461}, \frac{192}{461}, -\frac{61}{461}, \frac{70}{461}, \frac{70}{461}, -\frac{6}{461})$ $+ \frac{198}{461}e^4 \otimes e_6 + \frac{66}{461}\sqrt{14}e^5 \otimes e_9 + \frac{6}{461}\sqrt{1870}e^1 \otimes e_2$	{13457, 13567, 14578, 15678, 234789, 236789, 2479, 2679}
931:1	$0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13}, \frac{2}{233}\sqrt{910}e^{17}$	$(-\frac{10}{233}, \frac{34}{233}, \frac{88}{233}, \frac{115}{233}, -\frac{94}{233}, -\frac{67}{233}, \frac{24}{233}, \frac{78}{233}, \frac{14}{233})$ $+ \frac{182}{233}e^4 \otimes e_6 + \frac{2}{233}\sqrt{10738}e^3 \otimes e_5$	{123479, 123679, 1245789, 1256789, 134, 136, 1458, 1568, 23489, 23689, 2459, 2569, 3478, 3678, 457, 567}
931:1	$0, 0, 0, 0, 0, \frac{4}{483}\sqrt{474}e^{12}, \frac{2}{483}\sqrt{8690}e^{13}, \frac{2}{69}\sqrt{158}e^{17}$	$(\frac{37}{483}, -\frac{121}{483}, \frac{37}{161}, -\frac{41}{483}, \frac{39}{161}, \frac{38}{483}, -\frac{4}{23}, \frac{148}{483}, -\frac{47}{483})$ $+ \frac{158}{483}e^5 \otimes e_4 + \frac{2}{483}\sqrt{14457}e^1 \otimes e_2 + \frac{2}{483}\sqrt{14457}e^3 \otimes e_9$	{14689, 1489, 15689, 1589, 23468, 2348, 23568, 2358}
931:1	$0, 0, 0, 0, 0, \frac{1}{434}\sqrt{39730}e^{12}, \frac{1}{434}\sqrt{19043}e^{13}, \frac{1}{31}\sqrt{137}e^{17}$	$(\frac{51}{434}, \frac{61}{868}, -\frac{43}{217}, -\frac{213}{868}, \frac{103}{434}, -\frac{17}{217}, \frac{163}{868}, -\frac{5}{62}, \frac{265}{868})$ $+ \frac{137}{434}e^5 \otimes e_6 + \frac{1}{217}\sqrt{13015}e^1 \otimes e_3 + \frac{1}{434}\sqrt{38634}e^2 \otimes e_4$	{1259, 1269, 1457, 1467, 23579, 23679, 345, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{101}\sqrt{474}e^{12}, \frac{1}{202}\sqrt{8690}e^{13}, \frac{7}{202}\sqrt{158}e^{17}$	$(\frac{37}{404}, -\frac{121}{404}, \frac{111}{404}, \frac{19}{202}, \frac{19}{202}, \frac{19}{202}, -\frac{21}{101}, \frac{37}{101}, -\frac{47}{404})$ $+\frac{1}{202}\sqrt{14457}e^1 \otimes e_2 + \frac{1}{202}\sqrt{14457}e^3 \otimes e_9$	{145689, 14589, 1489, 189, 234568, 23458, 2348, 238}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{739}\sqrt{6987}e^{12}, \frac{2}{739}\sqrt{1370}e^{13}, \frac{6}{739}\sqrt{1918}e^{17}$	$(\frac{48}{739}, \frac{96}{739}, -\frac{226}{739}, -\frac{71}{739}, \frac{203}{739}, \frac{66}{739}, \frac{144}{739}, -\frac{178}{739}, \frac{192}{739})$ $+\frac{274}{739}e^5 \otimes e_4 + \frac{2}{739}\sqrt{41374}e^1 \otimes e_3 + \frac{6}{739}\sqrt{3562}e^2 \otimes e_8$	{12469, 1249, 12569, 1259, 234679, 23479, 235679, 23579}
931:1	$0, 0, 0, 0, 0, 0, \frac{3}{181}\sqrt{22}e^{12}, \frac{12}{181}\sqrt{22}e^{13}, \frac{33}{181}\sqrt{10}e^{17}$	$(\frac{32}{181}, -\frac{67}{181}, \frac{3}{181}, \frac{96}{181}, \frac{19}{181}, \frac{19}{181}, -\frac{35}{181}, \frac{35}{181}, -\frac{3}{181})$ $+\frac{33}{181}\sqrt{14}e^4 \otimes e_9 + \frac{3}{181}\sqrt{1870}e^1 \otimes e_2$	{134567, 13457, 1347, 145678, 14578, 1478, 2356789, 235789, 23789, 25679, 2579, 279}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13}, \frac{1}{9}\sqrt{7}e^{17}$	$(-\frac{1}{9}, \frac{7}{18}, \frac{1}{6}, \frac{1}{2}, -\frac{7}{18}, -\frac{5}{18}, \frac{5}{18}, \frac{1}{18}, \frac{1}{6})$ $+\frac{1}{3}\sqrt{7}e^2 \otimes e_5 + \frac{7}{9}e^4 \otimes e_6$	{123489, 123689, 1249, 1269, 134578, 135678, 1457, 1567, 23479, 23679, 24789, 26789, 345, 356, 458, 568}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13}, \frac{3}{401}\sqrt{2233}e^{17}$	$(-\frac{85}{401}, \frac{231}{802}, \frac{297}{802}, -\frac{175}{802}, \frac{275}{802}, -\frac{131}{802}, \frac{61}{802}, \frac{127}{802}, -\frac{109}{802})$ $+\frac{14}{401}\sqrt{290}e^3 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^2 \otimes e_4 + \frac{203}{401}e^5 \otimes e_6$	{12589, 12689, 13457, 13467, 2579, 2679, 3458, 3468}
931:1	$0, 0, 0, 0, 0, 0, \frac{6}{599}\sqrt{2233}e^{12}, \frac{2}{599}\sqrt{11165}e^{13}, \frac{4}{599}\sqrt{4466}e^{17}$	$(-\frac{170}{599}, \frac{253}{599}, \frac{17}{599}, \frac{319}{599}, \frac{72}{599}, \frac{72}{599}, \frac{83}{599}, -\frac{153}{599}, -\frac{87}{599})$ $+\frac{28}{599}\sqrt{290}e^2 \otimes e_8 + \frac{2}{599}\sqrt{50141}e^4 \otimes e_9$	{123569, 12359, 1239, 145678, 14578, 1478, 25679, 2579, 279, 34568, 3458, 348}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{462}e^{12}, \frac{1}{32}\sqrt{429}e^{13}, \frac{1}{64}\sqrt{462}e^{17}$	$(-\frac{7}{64}, \frac{3}{16}, \frac{17}{128}, \frac{69}{128}, -\frac{49}{128}, \frac{5}{64}, \frac{5}{64}, \frac{3}{128}, -\frac{1}{32})$ $+\frac{1}{64}\sqrt{1947}e^3 \otimes e_5 + \frac{1}{64}\sqrt{1947}e^4 \otimes e_8$	{1234679, 123479, 1256789, 125789, 134, 1346, 1568, 158, 23689, 2389, 24569, 2459, 3678, 378, 4567, 457}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{39730}e^{12}, \frac{2}{731}\sqrt{19043}e^{13}, \frac{28}{731}\sqrt{137}e^{17}$	$(\frac{6}{43}, \frac{61}{731}, -\frac{4}{17}, -\frac{213}{731}, \frac{69}{731}, \frac{69}{731}, \frac{163}{731}, -\frac{70}{731}, \frac{265}{731})$ $+\frac{2}{731}\sqrt{38634}e^2 \otimes e_4 + \frac{4}{731}\sqrt{13015}e^1 \otimes e_3$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13}, \frac{4}{11}\sqrt{7}e^{17}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{3}{11}, 1, \frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, \frac{1}{11}, -\frac{3}{11})$ $+\frac{6}{11}\sqrt{7}e^4 \otimes e_9$	{1235689, 123589, 12389, 12569, 1259, 129, 1345678, 134578, 13478, 14567, 1457, 147, 235679, 23579, 2379, 256789, 25789, 2789, 34, 345, 3456, 4568, 458, 48}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13}, \frac{2}{233}\sqrt{910}e^{17}$	$(-\frac{10}{233}, \frac{34}{233}, -\frac{30}{233}, \frac{115}{233}, \frac{142}{233}, -\frac{67}{233}, \frac{24}{233}, -\frac{40}{233}, \frac{14}{233})$ $+\frac{182}{233}e^4 \otimes e_6 + \frac{2}{233}\sqrt{10738}e^5 \otimes e_8$	{1234579, 1235679, 124789, 126789, 1345, 1356, 148, 168, 23489, 23689, 2459, 2569, 3478, 3678, 457, 567}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{266}e^{12}, \frac{1}{91}\sqrt{627}e^{13}, \frac{2}{91}\sqrt{266}e^{17}$	$(\frac{9}{182}, \frac{2}{91}, -\frac{29}{182}, -\frac{17}{91}, \frac{30}{91}, \frac{1}{14}, \frac{1}{14}, -\frac{10}{91}, \frac{11}{91})$ $+\frac{1}{91}\sqrt{893}e^2 \otimes e_4 + \frac{1}{91}\sqrt{893}e^5 \otimes e_9 + \frac{5}{91}\sqrt{57}e^1 \otimes e_3$	{1269, 129, 14567, 1457, 23679, 2379, 345, 3456}
931:1	$0, 0, 0, 0, 0, 0, \frac{3}{103}\sqrt{130}e^{12}, \frac{5}{103}\sqrt{26}e^{13}, \frac{4}{103}\sqrt{65}e^{17}$	$(-\frac{11}{206}, \frac{17}{103}, -\frac{7}{206}, -\frac{63}{206}, \frac{32}{103}, \frac{9}{103}, \frac{23}{206}, -\frac{9}{103}, \frac{6}{103})$ $+\frac{1}{103}\sqrt{1586}e^2 \otimes e_8 + \frac{2}{103}\sqrt{299}e^5 \otimes e_9 + \frac{9}{103}\sqrt{26}e^1 \otimes e_4$	{12369, 1239, 15678, 1578, 24679, 2479, 34568, 3458}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{9454}e^{12}, \frac{2}{719}\sqrt{3749}e^{13}, \frac{2}{719}\sqrt{22657}e^{17}$	$(\frac{46}{719}, \frac{127}{719}, \frac{57}{719}, -\frac{280}{719}, -\frac{199}{719}, \frac{80}{719}, \frac{173}{719}, \frac{103}{719}, \frac{219}{719})$ $+\frac{12}{719}\sqrt{1630}e^1 \otimes e_4 + \frac{6}{719}\sqrt{5053}e^2 \otimes e_5$	{12369, 1239, 12689, 1289, 13567, 1357, 15678, 1578, 2346789, 234789, 24679, 2479, 34568, 3458, 45, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{8}{37}\sqrt{15}e^{12}, \frac{16}{37}\sqrt{2}e^{13}, \frac{8}{37}\sqrt{15}e^{17}$	$(\frac{15}{37}, -\frac{9}{37}, -\frac{17}{37}, \frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{2}{37}, \frac{21}{37})$ $+\frac{8}{37}\sqrt{31}e^1 \otimes e_3$	{124569, 12459, 1249, 129, 14567, 1457, 147, 17, 2345679, 234579, 23479, 2379, 3, 34, 345, 3456}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{4466}e^{12}, \frac{2}{599}\sqrt{11165}e^{13}, \frac{6}{599}\sqrt{2233}e^{17}$	$(-\frac{170}{599}, \frac{231}{599}, \frac{297}{599}, -\frac{175}{599}, \frac{72}{599}, \frac{72}{599}, \frac{61}{599}, \frac{127}{599}, -\frac{109}{599})$ $+\frac{28}{599}\sqrt{290}e^3 \otimes e_9 + \frac{2}{599}\sqrt{50141}e^2 \otimes e_4$	{125689, 12589, 1289, 134567, 13457, 1347, 25679, 2579, 279, 34568, 3458, 348}
931:1	$0, 0, 0, 0, 0, 0, \frac{5}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{11438}e^{13}, \frac{2}{377}\sqrt{5453}e^{17}$	$(\frac{3}{29}, \frac{37}{377}, -\frac{94}{377}, -\frac{96}{377}, \frac{6}{29}, \frac{33}{377}, \frac{76}{377}, -\frac{55}{377}, \frac{115}{377})$ $+\frac{1}{377}\sqrt{34314}e^2 \otimes e_4 + \frac{2}{377}\sqrt{11305}e^1 \otimes e_3 + \frac{3}{377}\sqrt{1330}e^5 \otimes e_8$	{12569, 1259, 14567, 1457, 235679, 23579, 345, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{137}\sqrt{78}e^{12}, \frac{1}{137}\sqrt{3354}e^{13}, \frac{2}{137}\sqrt{78}e^{17}$	$(\frac{4}{137}, \frac{6}{137}, \frac{8}{137}, -\frac{35}{137}, \frac{51}{137}, -\frac{31}{137}, \frac{10}{137}, \frac{12}{137}, \frac{14}{137})$ $+ \frac{1}{137}\sqrt{3198}e^3 \otimes e_6 + \frac{1}{137}\sqrt{3198}e^5 \otimes e_8 + \frac{3}{137}\sqrt{390}e^1 \otimes e_4$	{12359, 12689, 1357, 1678, 234789, 245679, 348, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{111}\sqrt{51}e^{12}, \frac{2}{111}\sqrt{323}e^{13}, \frac{10}{111}\sqrt{17}e^{17}$	$(-\frac{1}{111}, -\frac{2}{111}, \frac{10}{111}, -\frac{35}{111}, \frac{9}{111}, -\frac{7}{111}, -\frac{1}{111}, \frac{29}{111}, -\frac{4}{111})$ $+ \frac{2}{111}\sqrt{663}e^3 \otimes e_9 + \frac{2}{37}\sqrt{85}e^1 \otimes e_4 + \frac{34}{111}e^5 \otimes e_6$	{12589, 12689, 1357, 1367, 24579, 24679, 3458, 3468}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{314878}e^{12}, \frac{1}{1483}\sqrt{196170}e^{13}, \frac{1}{1483}\sqrt{178062}e^{17}$	$(\frac{41}{1483}, \frac{227}{1483}, -\frac{63}{1483}, -\frac{462}{1483}, \frac{481}{1483}, -\frac{276}{1483}, \frac{268}{1483}, -\frac{22}{1483}, \frac{309}{1483})$ $+ \frac{1}{1483}\sqrt{351094}e^5 \otimes e_8 + \frac{4}{1483}\sqrt{25653}e^2 \otimes e_6 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_4$	{12359, 1289, 13567, 1678, 234789, 24579, 3468, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{759}e^{12}, \frac{2}{223}\sqrt{7337}e^{13}, \frac{11}{223}\sqrt{230}e^{17}$	$(-\frac{67}{223}, \frac{46}{223}, \frac{165}{223}, \frac{40}{223}, \frac{40}{223}, \frac{40}{223}, -\frac{21}{223}, \frac{98}{223}, -\frac{88}{223})$ $+ \frac{1}{223}\sqrt{92598}e^3 \otimes e_9$	{1234567, 123457, 12347, 1237, 145689, 14589, 1489, 189, 234568, 23458, 2348, 238, 45679, 4579, 479, 79}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{406}\sqrt{4917}e^{12}, \frac{9}{406}\sqrt{298}e^{13}, \frac{1}{203}\sqrt{5215}e^{17}$	$(\frac{47}{406}, -\frac{51}{203}, \frac{131}{812}, -\frac{167}{812}, \frac{141}{406}, \frac{9}{116}, -\frac{55}{406}, \frac{225}{812}, -\frac{4}{203})$ $+ \frac{1}{406}\sqrt{32631}e^5 \otimes e_9 + \frac{1}{406}\sqrt{34270}e^3 \otimes e_4 + \frac{5}{203}\sqrt{447}e^1 \otimes e_2$	{1369, 139, 14689, 1489, 23568, 2358, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{107}\sqrt{1430}e^{12}, \frac{3}{107}\sqrt{330}e^{13}, \frac{1}{107}\sqrt{1430}e^{17}$	$(\frac{13}{107}, -\frac{1}{107}, \frac{26}{107}, -\frac{42}{107}, -\frac{29}{107}, \frac{12}{107}, \frac{12}{107}, \frac{39}{107}, \frac{25}{107})$ $+ \frac{1}{107}\sqrt{4510}e^3 \otimes e_5 + \frac{6}{107}\sqrt{165}e^1 \otimes e_4$	{12369, 1239, 125689, 12589, 1367, 137, 15678, 1578, 2346789, 234789, 245679, 24579, 3468, 348, 45, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13}, \frac{2}{455}\sqrt{2674}e^{17}$	$(-\frac{17}{91}, \frac{9}{65}, \frac{12}{65}, \frac{2}{7}, \frac{38}{91}, -\frac{61}{455}, -\frac{22}{455}, -\frac{1}{455}, -\frac{107}{455})$ $+ \frac{191}{455}e^4 \otimes e_6 + \frac{1}{455}\sqrt{59401}e^5 \otimes e_8 + \frac{1}{455}\sqrt{64749}e^3 \otimes e_9$	{123457, 123567, 1489, 1689, 2348, 2368, 4579, 5679}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13}, \frac{4}{719}\sqrt{2674}e^{17}$	$(\frac{169}{719}, -\frac{213}{719}, -\frac{171}{719}, \frac{380}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{44}{719}, -\frac{2}{719}, \frac{125}{719})$ $+ \frac{2}{719}\sqrt{59401}e^4 \otimes e_8 + \frac{2}{719}\sqrt{64749}e^1 \otimes e_2$	{134569, 13459, 1349, 15689, 1589, 189, 23568, 2358, 238, 24, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{22}{699}\sqrt{230}e^{12}, \frac{4}{699}\sqrt{7337}e^{13}, \frac{4}{699}\sqrt{759}e^{17}$	$(-\frac{134}{699}, \frac{112}{233}, -\frac{12}{233}, \frac{111}{233}, -\frac{173}{699}, \frac{80}{699}, \frac{202}{699}, -\frac{170}{699}, \frac{68}{699})$ $+ \frac{2}{699}\sqrt{92598}e^2 \otimes e_8 + \frac{506}{699}e^4 \otimes e_5$	{1234, 12346, 1235, 12356, 146789, 14789, 156789, 15789, 2467, 247, 2567, 257, 34689, 3489, 35689, 3589}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{178062}e^{12}, \frac{1}{1483}\sqrt{196170}e^{13}, \frac{1}{1483}\sqrt{314878}e^{17}$	$(\frac{41}{1483}, -\frac{45}{1483}, \frac{286}{1483}, -\frac{462}{1483}, \frac{540}{1483}, -\frac{217}{1483}, -\frac{4}{1483}, \frac{327}{1483}, \frac{37}{1483})$ $+ \frac{1}{1483}\sqrt{351094}e^3 \otimes e_6 + \frac{4}{1483}\sqrt{25653}e^5 \otimes e_9 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_4$	{1239, 12689, 1357, 15678, 234789, 24679, 3458, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{1419}\sqrt{52202}e^{12}, \frac{1}{473}\sqrt{42490}e^{13}, \frac{2}{1419}\sqrt{32171}e^{17}$	$(-\frac{115}{473}, \frac{401}{1419}, \frac{106}{473}, -\frac{206}{1419}, \frac{580}{1419}, \frac{119}{1419}, \frac{56}{1419}, -\frac{9}{473}, -\frac{289}{1419})$ $+ \frac{1}{1419}\sqrt{559654}e^5 \otimes e_8 + \frac{2}{1419}\sqrt{155999}e^3 \otimes e_9 + \frac{5}{1419}\sqrt{15782}e^2 \otimes e_4$	{12689, 1289, 134567, 13457, 25679, 2579, 3468, 348}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{117}\sqrt{1914}e^{12}, \frac{1}{117}\sqrt{66}e^{13}, \frac{1}{117}\sqrt{1914}e^{17}$	$(-\frac{2}{117}, \frac{4}{39}, \frac{11}{117}, -\frac{35}{117}, \frac{41}{117}, -\frac{7}{39}, \frac{10}{117}, \frac{1}{13}, \frac{8}{117})$ $+ \frac{1}{117}\sqrt{2046}e^2 \otimes e_6 + \frac{1}{117}\sqrt{2046}e^5 \otimes e_9 + \frac{1}{39}\sqrt{330}e^1 \otimes e_4$	{12389, 129, 135678, 1567, 23479, 24789, 3456, 4568}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13}, \frac{2}{11}\sqrt{7}e^{17}$	$(-\frac{2}{11}, \frac{7}{11}, \frac{3}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{5}{11}, \frac{1}{11}, \frac{3}{11})$ $+ \frac{6}{11}\sqrt{7}e^2 \otimes e_4$	{1235689, 123589, 12389, 12569, 1259, 129, 1345678, 134578, 13478, 14567, 1457, 147, 235679, 23579, 2379, 256789, 25789, 2789, 34, 345, 3456, 4568, 458, 48}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{5453}e^{12}, \frac{1}{377}\sqrt{11438}e^{13}, \frac{5}{377}\sqrt{1330}e^{17}$	$(\frac{3}{29}, -\frac{49}{377}, -\frac{94}{377}, \frac{6}{29}, \frac{162}{377}, \frac{33}{377}, -\frac{10}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{34314}e^5 \otimes e_9 + \frac{2}{377}\sqrt{11305}e^1 \otimes e_3 + \frac{3}{377}\sqrt{1330}e^4 \otimes e_8$	{12469, 1249, 14567, 1457, 234679, 23479, 345, 3456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{253}\sqrt{2289}e^{12}, \frac{1}{506}\sqrt{34662}e^{13}, \frac{1}{506}\sqrt{15478}e^{17}$	$(\frac{29}{1012}, -\frac{189}{1012}, \frac{87}{1012}, \frac{3}{46}, \frac{167}{506}, \frac{3}{46}, -\frac{40}{253}, \frac{29}{253}, -\frac{131}{1012})$ $+ \frac{1}{253}\sqrt{7303}e^5 \otimes e_8 + \frac{1}{506}\sqrt{36951}e^1 \otimes e_2 + \frac{1}{506}\sqrt{36951}e^3 \otimes e_9$	{14689, 1489, 189, 23468, 2348, 238}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{327}e^{12}, \frac{1}{146}\sqrt{4578}e^{13}, \frac{1}{73}\sqrt{1090}e^{17}$	$(-\frac{23}{146}, \frac{9}{73}, -\frac{9}{292}, \frac{163}{292}, \frac{81}{146}, \frac{33}{292}, -\frac{5}{146}, -\frac{55}{292}, -\frac{14}{73})$ $+ \frac{1}{146}\sqrt{14061}e^5 \otimes e_9 + \frac{1}{146}\sqrt{14170}e^4 \otimes e_8$	{1234567, 123457, 125678, 12578, 13469, 1349, 1689, 189, 23568, 2358, 245, 2456, 36789, 3789, 4679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:1	$0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{17}e^{12}, \frac{1}{47}\sqrt{323}e^{13}, \frac{2}{47}\sqrt{51}e^{17}$	$(-\frac{1}{94}, \frac{12}{47}, -\frac{9}{94}, -\frac{35}{94}, \frac{5}{47}, \frac{5}{47}, \frac{23}{94}, -\frac{5}{47}, \frac{11}{47})$ $+\frac{1}{47}\sqrt{663}e^2 \otimes e_8 + \frac{3}{47}\sqrt{85}e^1 \otimes e_4$	{123569, 12359, 1239, 15678, 1578, 178, 245679, 24579, 2479, 34568, 3458, 348}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{9174}e^{12}, \frac{1}{271}\sqrt{3058}e^{13}, \frac{1}{271}\sqrt{9174}e^{17}$	$(-\frac{53}{271}, \frac{77}{271}, \frac{13}{271}, \frac{99}{271}, \frac{110}{271}, -\frac{62}{271}, \frac{24}{271}, -\frac{40}{271}, -\frac{29}{271})$ $+\frac{2}{271}\sqrt{5977}e^2 \otimes e_6 + \frac{2}{271}\sqrt{5977}e^5 \otimes e_9 + \frac{5}{271}\sqrt{834}e^4 \otimes e_8$	{12349, 1289, 134567, 15678, 23789, 2479, 3568, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{28}{731}\sqrt{137}e^{12}, \frac{2}{731}\sqrt{19043}e^{13}, \frac{2}{731}\sqrt{39730}e^{17}$	$(\frac{6}{43}, -\frac{127}{731}, -\frac{4}{17}, \frac{351}{731}, \frac{69}{731}, \frac{69}{731}, -\frac{25}{731}, -\frac{70}{731}, \frac{77}{731})$ $+\frac{2}{731}\sqrt{38634}e^4 \otimes e_9 + \frac{4}{731}\sqrt{13015}e^1 \otimes e_3$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{327}e^{12}, \frac{1}{146}\sqrt{4578}e^{13}, \frac{1}{73}\sqrt{1090}e^{17}$	$(-\frac{23}{146}, \frac{9}{73}, \frac{121}{292}, \frac{81}{146}, -\frac{97}{292}, \frac{33}{292}, -\frac{5}{146}, \frac{75}{292}, -\frac{14}{73})$ $+\frac{1}{146}\sqrt{14061}e^4 \otimes e_9 + \frac{1}{146}\sqrt{14170}e^3 \otimes e_5$	{123467, 12347, 1245678, 124578, 1369, 139, 15689, 1589, 23468, 2348, 245, 2456, 36789, 3789, 5679, 579}
931:1	$0, 0, 0, 0, 0, 0, \frac{11}{223}\sqrt{230}e^{12}, \frac{2}{223}\sqrt{7337}e^{13}, \frac{2}{223}\sqrt{759}e^{17}$	$(-\frac{67}{223}, \frac{168}{223}, \frac{18}{223}, \frac{40}{223}, \frac{40}{223}, \frac{40}{223}, \frac{101}{223}, -\frac{85}{223}, \frac{34}{223})$ $+\frac{1}{223}\sqrt{92598}e^2 \otimes e_8$	{123, 1234, 12345, 123456, 1456789, 145789, 14789, 1789, 24567, 2457, 247, 27, 345689, 34589, 3489, 389}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{2674}e^{12}, \frac{4}{455}\sqrt{2865}e^{13}, \frac{1}{455}\sqrt{10887}e^{17}$	$(-\frac{17}{91}, \frac{176}{455}, \frac{2}{13}, -\frac{121}{455}, \frac{2}{7}, -\frac{61}{455}, \frac{1}{5}, -\frac{3}{91}, \frac{6}{455})$ $+\frac{191}{455}e^5 \otimes e_6 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_4 + \frac{1}{455}\sqrt{64749}e^2 \otimes e_8$	{1235, 1236, 145789, 146789, 2457, 2467, 3589, 3689}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{9174}e^{12}, \frac{1}{271}\sqrt{3058}e^{13}, \frac{1}{271}\sqrt{9174}e^{17}$	$(-\frac{53}{271}, \frac{77}{271}, \frac{88}{271}, -\frac{62}{271}, \frac{110}{271}, -\frac{51}{271}, \frac{24}{271}, \frac{35}{271}, -\frac{29}{271})$ $+\frac{2}{271}\sqrt{5977}e^2 \otimes e_4 + \frac{2}{271}\sqrt{5977}e^5 \otimes e_9 + \frac{5}{271}\sqrt{834}e^3 \otimes e_6$	{1239, 12689, 13457, 145678, 23789, 2679, 3458, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1090}e^{12}, \frac{1}{146}\sqrt{4578}e^{13}, \frac{1}{146}\sqrt{327}e^{17}$	$(-\frac{23}{146}, \frac{61}{146}, -\frac{9}{292}, \frac{163}{292}, -\frac{24}{73}, \frac{33}{292}, \frac{19}{73}, -\frac{55}{292}, \frac{15}{146})$ $+\frac{1}{146}\sqrt{14061}e^2 \otimes e_5 + \frac{1}{146}\sqrt{14170}e^4 \otimes e_8$	{1234, 12346, 1268, 128, 1345679, 134579, 156789, 15789, 23678, 2378, 2467, 247, 35689, 3589, 4569, 459}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13}, \frac{2}{455}\sqrt{2674}e^{17}$	$(\frac{13}{70}, -\frac{213}{910}, \frac{2}{13}, -\frac{121}{455}, \frac{2}{7}, -\frac{61}{455}, -\frac{22}{455}, \frac{309}{910}, \frac{25}{182})$ $+\frac{191}{455}e^5 \otimes e_6 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_4 + \frac{1}{455}\sqrt{64749}e^1 \otimes e_2$	{1359, 1369, 14589, 14689, 2358, 2368, 245, 246}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{1443}\sqrt{75463}e^{12}, \frac{23}{1443}\sqrt{170}e^{13}, \frac{1}{1443}\sqrt{319838}e^{17}$	$(\frac{32}{1443}, \frac{64}{1443}, -\frac{359}{1443}, \frac{119}{1443}, \frac{173}{481}, \frac{119}{1443}, \frac{32}{481}, -\frac{109}{481}, \frac{128}{1443})$ $+\frac{1}{1443}\sqrt{258842}e^2 \otimes e_8 + \frac{1}{1443}\sqrt{463726}e^1 \otimes e_3 + \frac{20}{1443}\sqrt{782}e^5 \otimes e_9$	{12469, 1249, 129, 234679, 23479, 2379}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1090}e^{12}, \frac{1}{146}\sqrt{4578}e^{13}, \frac{1}{146}\sqrt{327}e^{17}$	$(-\frac{23}{146}, \frac{61}{146}, \frac{121}{292}, -\frac{24}{73}, -\frac{97}{292}, \frac{33}{292}, \frac{19}{73}, \frac{75}{292}, \frac{15}{146})$ $+\frac{1}{146}\sqrt{14061}e^2 \otimes e_4 + \frac{1}{146}\sqrt{14170}e^3 \otimes e_5$	{123, 1236, 12568, 1258, 134679, 13479, 1456789, 145789, 23678, 2378, 2567, 257, 34689, 3489, 4569, 459}
931:1	$0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13}, \frac{4}{111}\sqrt{51}e^{17}$	$(-\frac{1}{111}, \frac{8}{37}, -\frac{3}{37}, -\frac{35}{111}, \frac{9}{37}, -\frac{7}{111}, \frac{23}{111}, -\frac{10}{111}, \frac{22}{111})$ $+\frac{2}{111}\sqrt{663}e^2 \otimes e_8 + \frac{2}{37}\sqrt{85}e^1 \otimes e_4 + \frac{34}{111}e^5 \otimes e_6$	{12359, 12369, 1578, 1678, 24579, 24679, 3458, 3468}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{759}e^{12}, \frac{2}{223}\sqrt{7337}e^{13}, \frac{11}{223}\sqrt{230}e^{17}$	$(\frac{116}{223}, -\frac{137}{223}, \frac{18}{223}, \frac{40}{223}, \frac{40}{223}, \frac{40}{223}, -\frac{21}{223}, \frac{98}{223}, \frac{95}{223})$ $+\frac{1}{223}\sqrt{92598}e^1 \otimes e_2$	{134569, 13459, 1349, 139, 145689, 14589, 1489, 189, 2, 234568, 23458, 2348, 238, 24, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{406}\sqrt{4917}e^{12}, \frac{9}{406}\sqrt{298}e^{13}, \frac{1}{203}\sqrt{5215}e^{17}$	$(\frac{47}{406}, -\frac{51}{203}, -\frac{99}{812}, \frac{293}{812}, \frac{141}{406}, \frac{9}{406}, -\frac{55}{406}, -\frac{5}{812}, -\frac{4}{203})$ $+\frac{1}{406}\sqrt{32631}e^5 \otimes e_9 + \frac{1}{406}\sqrt{34270}e^4 \otimes e_8 + \frac{5}{203}\sqrt{447}e^1 \otimes e_2$	{13469, 1349, 1689, 189, 23568, 2358, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{137}e^{12}, \frac{1}{434}\sqrt{19043}e^{13}, \frac{1}{434}\sqrt{39730}e^{17}$	$(\frac{51}{434}, -\frac{127}{868}, -\frac{43}{217}, \frac{103}{434}, \frac{351}{868}, -\frac{17}{217}, -\frac{25}{868}, -\frac{5}{62}, \frac{11}{124})$ $+\frac{137}{434}e^4 \otimes e_6 + \frac{1}{217}\sqrt{13015}e^1 \otimes e_3 + \frac{1}{434}\sqrt{38634}e^5 \otimes e_9$	{1249, 1269, 1457, 1567, 23479, 23679, 345, 356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{910}e^{12}, \frac{3}{71}\sqrt{546}e^{13}, \frac{1}{71}\sqrt{910}e^{17}$	$(-\frac{5}{71}, \frac{17}{71}, -\frac{15}{71}, 1, \frac{12}{71}, \frac{12}{71}, \frac{12}{71}, -\frac{20}{71}, \frac{7}{71})$ $+\frac{1}{71}\sqrt{10738}e^4 \otimes e_8$	{12345679, 1234579, 123479, 1256789, 125789, 12789, 134, 1345, 13456, 1568, 158, 18, 235689, 23589, 2389, 24569, 2459, 249, 35678, 3578, 378, 4567, 457, 47}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{910}e^{12}, \frac{3}{71}\sqrt{546}e^{13}, \frac{1}{71}\sqrt{910}e^{17}$	$(-\frac{5}{71}, \frac{17}{71}, \frac{44}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{12}{71}, \frac{12}{71}, \frac{39}{71}, \frac{7}{71})$ $+\frac{1}{71}\sqrt{10738}e^3 \otimes e_4$	{1235679, 123579, 12379, 12456789, 1245789, 124789, 13, 135, 1356, 14568, 1458, 148, 235689, 23589, 2389, 24569, 2459, 249, 35678, 3578, 378, 4567, 457, 47}
931:1	$0, 0, 0, 0, 0, 0, \frac{3}{496}\sqrt{1462}e^{12}, \frac{1}{248}\sqrt{11739}e^{13}, \frac{1}{496}\sqrt{258}e^{17}$	$(\frac{53}{496}, -\frac{19}{124}, \frac{5}{992}, -\frac{253}{992}, \frac{369}{992}, \frac{29}{496}, -\frac{23}{496}, \frac{111}{992}, \frac{15}{248})$ $+\frac{1}{496}\sqrt{40119}e^3 \otimes e_4 + \frac{1}{496}\sqrt{40119}e^5 \otimes e_8 + \frac{3}{248}\sqrt{1118}e^1 \otimes e_2$	{13569, 1359, 14689, 1489, 2368, 238, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{12}{173}\sqrt{13}e^{12}, \frac{12}{173}\sqrt{37}e^{13}, \frac{12}{173}\sqrt{13}e^{17}$	$(-\frac{48}{173}, \frac{63}{173}, \frac{39}{173}, -\frac{21}{173}, \frac{51}{173}, \frac{15}{173}, \frac{15}{173}, -\frac{9}{173}, -\frac{33}{173})$ $+\frac{12}{173}\sqrt{61}e^2 \otimes e_8 + \frac{12}{173}\sqrt{61}e^3 \otimes e_9 + \frac{72}{173}e^5 \otimes e_4$	{24679, 2479, 25679, 2579, 3468, 348, 3568, 358}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{781}e^{12}, \frac{1}{77}\sqrt{1562}e^{13}, \frac{2}{77}\sqrt{781}e^{17}$	$(\frac{2}{7}, -\frac{8}{77}, \frac{3}{77}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{25}{77}, \frac{36}{77})$ $+\frac{3}{77}\sqrt{994}e^1 \otimes e_4$	{123569, 12359, 1239, 125689, 12589, 1289, 13567, 1357, 137, 15678, 1578, 178, 23456789, 2345789, 234789, 245679, 24579, 2479, 34568, 3458, 348, 4, 45, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{225}\sqrt{781}e^{12}, \frac{2}{225}\sqrt{1562}e^{13}, \frac{4}{225}\sqrt{781}e^{17}$	$(\frac{44}{225}, -\frac{16}{225}, \frac{2}{75}, \frac{11}{25}, -\frac{98}{225}, -\frac{43}{225}, \frac{28}{225}, \frac{2}{25}, \frac{8}{25})$ $+\frac{142}{225}e^4 \otimes e_6 + \frac{2}{75}\sqrt{994}e^1 \otimes e_5$	{12349, 12369, 12489, 12689, 1347, 1367, 1478, 1678, 2345789, 2356789, 24579, 25679, 3458, 3568, 45, 56}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{178062}e^{12}, \frac{1}{1483}\sqrt{196170}e^{13}, \frac{1}{1483}\sqrt{314878}e^{17}$	$(\frac{41}{1483}, -\frac{45}{1483}, -\frac{63}{1483}, \frac{481}{1483}, \frac{540}{1483}, -\frac{462}{1483}, -\frac{4}{1483}, -\frac{22}{1483}, \frac{37}{1483})$ $+\frac{1}{1483}\sqrt{351094}e^4 \otimes e_8 + \frac{4}{1483}\sqrt{25653}e^5 \otimes e_9 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_6$	{12349, 1289, 13457, 1578, 236789, 24679, 3568, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{58}e^{12}, \frac{1}{18}\sqrt{29}e^{13}, \frac{1}{18}\sqrt{58}e^{17}$	$(\frac{1}{18}, \frac{5}{36}, \frac{1}{6}, 1, -\frac{11}{18}, \frac{7}{36}, \frac{7}{36}, \frac{2}{9}, \frac{1}{4})$ $+\frac{29}{18}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 13467, 1347, 13567, 1357, 14678, 1478, 15678, 1578, 2346789, 234789, 2356789, 235789, 24679, 2479, 25679, 2579, 3468, 348, 3568, 358, 4, 46, 5, 56}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13}, \frac{4}{719}\sqrt{2674}e^{17}$	$(-\frac{170}{719}, \frac{126}{719}, \frac{168}{719}, \frac{380}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{44}{719}, -\frac{2}{719}, -\frac{214}{719})$ $+\frac{2}{719}\sqrt{59401}e^4 \otimes e_8 + \frac{2}{719}\sqrt{64749}e^3 \otimes e_9$	{1234567, 123457, 12347, 15689, 1589, 189, 23568, 2358, 238, 45679, 4579, 479}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{699}\sqrt{759}e^{12}, \frac{4}{699}\sqrt{7337}e^{13}, \frac{22}{699}\sqrt{230}e^{17}$	$(-\frac{134}{699}, \frac{92}{699}, \frac{110}{233}, \frac{111}{233}, -\frac{173}{699}, \frac{80}{699}, -\frac{14}{233}, \frac{196}{699}, -\frac{176}{699})$ $+\frac{2}{699}\sqrt{92598}e^3 \otimes e_9 + \frac{506}{699}e^4 \otimes e_5$	{123467, 12347, 123567, 12357, 14689, 1489, 15689, 1589, 23468, 2348, 23568, 2358, 4679, 479, 5679, 579}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{22657}e^{12}, \frac{2}{719}\sqrt{3749}e^{13}, \frac{4}{719}\sqrt{9454}e^{17}$	$(\frac{46}{719}, -\frac{59}{719}, \frac{57}{719}, \frac{359}{719}, -\frac{280}{719}, \frac{80}{719}, -\frac{13}{719}, \frac{103}{719}, \frac{33}{719})$ $+\frac{12}{719}\sqrt{1630}e^1 \otimes e_5 + \frac{6}{719}\sqrt{5053}e^4 \otimes e_9$	{12369, 1239, 12689, 1289, 13467, 1347, 14678, 1478, 2356789, 235789, 25679, 2579, 34568, 3458, 45, 456}
931:1	$0, 0, 0, 0, 0, 0, \frac{8}{53}\sqrt{15}e^{12}, \frac{16}{53}\sqrt{2}e^{13}, \frac{8}{53}\sqrt{15}e^{17}$	$(\frac{15}{53}, -\frac{9}{53}, -\frac{17}{53}, \frac{22}{53}, -\frac{10}{53}, \frac{6}{53}, \frac{6}{53}, -\frac{2}{53}, \frac{21}{53})$ $+\frac{32}{53}e^4 \otimes e_5 + \frac{8}{53}\sqrt{31}e^1 \otimes e_3$	{12469, 1249, 12569, 1259, 1467, 147, 1567, 157, 234679, 23479, 235679, 23579, 34, 346, 35, 356}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{2}{9}\sqrt{6}e^{17}$	$(-\frac{2}{9}, \frac{1}{3}, \frac{2}{9}, \frac{5}{9}, -\frac{1}{3}, \frac{1}{9}, \frac{1}{9}, 0, -\frac{1}{9})$ $+\frac{4}{9}\sqrt{3}e^2 \otimes e_5 + \frac{4}{9}\sqrt{3}e^4 \otimes e_9$	{123689, 12389, 1269, 129, 1345678, 134578, 14567, 1457, 23679, 2379, 26789, 2789, 345, 3456, 4568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13}, \frac{4}{719}\sqrt{2674}e^{17}$	$(\frac{169}{719}, -\frac{213}{719}, \frac{140}{719}, -\frac{242}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{44}{719}, \frac{309}{719}, \frac{125}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_4 + \frac{2}{719}\sqrt{64749}e^1 \otimes e_2$	{13569, 1359, 139, 145689, 14589, 1489, 23568, 2358, 238, 24, 245, 2456}
931:1	$0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{2674}e^{12}, \frac{8}{719}\sqrt{2865}e^{13}, \frac{2}{719}\sqrt{10887}e^{17}$	$(-\frac{170}{719}, \frac{352}{719}, \frac{140}{719}, -\frac{242}{719}, \frac{69}{719}, \frac{69}{719}, \frac{182}{719}, -\frac{30}{719}, \frac{12}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_4 + \frac{2}{719}\sqrt{64749}e^2 \otimes e_8$	{123, 1235, 12356, 1456789, 145789, 14789, 24567, 2457, 247, 35689, 3589, 389}
931:1	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{13}e^{12}, \frac{12}{137}\sqrt{37}e^{13}, \frac{12}{137}\sqrt{13}e^{17}$	$(-\frac{48}{137}, \frac{63}{137}, \frac{39}{137}, \frac{15}{137}, \frac{15}{137}, \frac{15}{137}, \frac{15}{137}, -\frac{9}{137}, -\frac{33}{137})$ $+ \frac{12}{137}\sqrt{61}e^2 \otimes e_8 + \frac{12}{137}\sqrt{61}e^3 \otimes e_9$	{245679, 24579, 2479, 279, 34568, 3458, 348, 38}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{301}\sqrt{6987}e^{12}, \frac{1}{301}\sqrt{1370}e^{13}, \frac{3}{301}\sqrt{1918}e^{17}$	$(\frac{24}{301}, \frac{48}{301}, -\frac{113}{301}, \frac{33}{301}, \frac{33}{301}, \frac{33}{301}, \frac{72}{301}, -\frac{89}{301}, \frac{96}{301})$ $+ \frac{1}{301}\sqrt{41374}e^1 \otimes e_3 + \frac{3}{301}\sqrt{3562}e^2 \otimes e_8$	{124569, 12459, 1249, 129, 2345679, 234579, 23479, 2379}
931:1	$0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13}, \frac{2}{455}\sqrt{2674}e^{17}$	$(\frac{13}{70}, -\frac{213}{910}, -\frac{171}{910}, \frac{2}{7}, \frac{38}{91}, -\frac{61}{455}, -\frac{22}{455}, -\frac{1}{455}, \frac{25}{182})$ $+ \frac{191}{455}e^4 \otimes e_6 + \frac{1}{455}\sqrt{59401}e^5 \otimes e_8 + \frac{1}{455}\sqrt{64749}e^1 \otimes e_2$	{13459, 13569, 1489, 1689, 2348, 2368, 245, 256}
931:1	$0, 0, 0, 0, 0, 0, \frac{2}{1419}\sqrt{32171}e^{12}, \frac{1}{473}\sqrt{42490}e^{13}, \frac{1}{1419}\sqrt{52202}e^{17}$	$(-\frac{115}{473}, \frac{527}{1419}, \frac{265}{1419}, -\frac{114}{473}, \frac{148}{473}, \frac{119}{1419}, \frac{182}{1419}, -\frac{80}{1419}, \frac{163}{1419})$ $+ \frac{1}{1419}\sqrt{559654}e^3 \otimes e_4 + \frac{2}{1419}\sqrt{155999}e^2 \otimes e_8 + \frac{5}{1419}\sqrt{15782}e^5 \otimes e_9$	{12369, 1239, 145678, 14578, 24679, 2479, 3568, 358}
931:1	$0, 0, 0, 0, 0, 0, \frac{3}{401}\sqrt{2233}e^{12}, \frac{1}{401}\sqrt{11165}e^{13}, \frac{2}{401}\sqrt{4466}e^{17}$	$(-\frac{85}{401}, \frac{253}{802}, \frac{17}{802}, \frac{275}{802}, \frac{319}{802}, -\frac{131}{802}, \frac{83}{802}, -\frac{153}{802}, -\frac{87}{802})$ $+ \frac{14}{401}\sqrt{290}e^2 \otimes e_8 + \frac{1}{401}\sqrt{50141}e^5 \otimes e_9 + \frac{203}{401}e^4 \otimes e_6$	{12349, 12369, 14578, 15678, 2479, 2679, 3458, 3568}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{66}\sqrt{1749}e^{12}, \frac{1}{66}\sqrt{1749}e^{13}, \frac{1}{33}\sqrt{583}e^{27}$	$(-\frac{7}{22}, \frac{5}{12}, -\frac{3}{44}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{13}{11}, -\frac{17}{44}, \frac{17}{33})$ $+ \frac{1}{11}\sqrt{159}e^2 \otimes e_8$	{1234569, 123459, 12349, 1239, 1456789, 145789, 14789, 1789, 24567, 2457, 247, 27, 34568, 3458, 348, 38}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{861}\sqrt{1794}e^{12}, \frac{4}{287}\sqrt{667}e^{13}, \frac{4}{861}\sqrt{6601}e^{27}$	$(-\frac{83}{287}, \frac{130}{861}, \frac{65}{287}, \frac{30}{287}, \frac{30}{287}, \frac{30}{287}, -\frac{17}{123}, -\frac{18}{287}, \frac{11}{861})$ $+ \frac{12}{287}\sqrt{115}e^2 \otimes e_8 + \frac{4}{861}\sqrt{8418}e^3 \otimes e_9$	{1456789, 145789, 14789, 1789, 34568, 3458, 348, 38}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{55158}e^{12}, \frac{2}{247}\sqrt{2219}e^{13}, \frac{1}{247}\sqrt{9510}e^{27}$	$(\frac{174}{247}, -\frac{3}{13}, -\frac{11}{19}, \frac{45}{247}, \frac{45}{247}, \frac{45}{247}, \frac{9}{19}, \frac{31}{247}, \frac{60}{247})$ $+ \frac{2}{247}\sqrt{32017}e^1 \otimes e_3$	{124569, 12459, 1249, 129, 145679, 14579, 1479, 179, 234567, 23457, 2347, 237, 3, 34, 345, 3456}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{42}e^{27}$	$(\frac{2}{21}, -\frac{4}{21}, \frac{1}{7}, 1, \frac{4}{21}, \frac{4}{21}, -\frac{2}{21}, \frac{5}{21}, -\frac{2}{7})$ $+ \frac{1}{7}\sqrt{102}e^4 \otimes e_9$	{123569, 12359, 1239, 125689, 12589, 1289, 135679, 13579, 1379, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 34568, 3458, 348, 4, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{84}{151}e^{12}, \frac{14}{151}\sqrt{6}e^{13}, \frac{14}{151}\sqrt{34}e^{27}$	$(-\frac{12}{151}, \frac{32}{151}, \frac{24}{151}, \frac{67}{151}, -\frac{66}{151}, -\frac{31}{151}, \frac{20}{151}, \frac{12}{151}, \frac{52}{151})$ $+ \frac{28}{151}\sqrt{21}e^2 \otimes e_5 + \frac{98}{151}e^4 \otimes e_6$	{123489, 123689, 1249, 1269, 1345789, 1356789, 14579, 15679, 2347, 2367, 2478, 2678, 345, 356, 458, 568}
931:2	$0, 0, 0, 0, 0, 0, \frac{7}{51}\sqrt{6}e^{12}, \frac{14}{17}e^{13}, \frac{7}{51}\sqrt{34}e^{27}$	$(-\frac{2}{17}, -\frac{5}{51}, \frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{11}{51}, \frac{9}{17}, -\frac{16}{51})$ $+ \frac{14}{51}\sqrt{21}e^3 \otimes e_9$	{1234567, 123457, 12347, 1237, 13, 134, 1345, 13456, 24569, 2459, 249, 29, 45679, 4579, 479, 79}
931:2	$0, 0, 0, 0, 0, 0, \frac{3}{218}\sqrt{763}e^{12}, \frac{3}{218}\sqrt{763}e^{13}, \frac{3}{109}\sqrt{154}e^{27}$	$(\frac{1}{218}, \frac{67}{436}, -\frac{61}{436}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, \frac{69}{109}, -\frac{59}{436}, \frac{34}{109})$ $+ \frac{3}{109}\sqrt{301}e^1 \otimes e_4 + \frac{9}{109}\sqrt{42}e^2 \otimes e_8$	{123569, 12359, 1239, 156789, 15789, 1789, 24567, 2457, 247, 34568, 3458, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{4294}e^{12}, \frac{3}{208}\sqrt{1582}e^{13}, \frac{1}{208}\sqrt{1695}e^{27}$	$(\frac{19}{104}, -\frac{1}{52}, -\frac{81}{416}, \frac{17}{32}, -\frac{75}{208}, \frac{45}{416}, \frac{17}{104}, -\frac{5}{416}, \frac{15}{104})$ $+ \frac{1}{208}\sqrt{22035}e^1 \otimes e_5 + \frac{1}{52}\sqrt{1243}e^4 \otimes e_8$	{123469, 12349, 12689, 1289, 134679, 13479, 16789, 1789, 235678, 23578, 24567, 2457, 3568, 358, 45, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{186}\sqrt{6545}e^{12}, \frac{1}{186}\sqrt{6545}e^{13}, \frac{1}{186}\sqrt{7854}e^{27}$	$(\frac{55}{186}, -\frac{25}{124}, -\frac{3}{124}, \frac{33}{62}, -\frac{32}{93}, \frac{23}{186}, \frac{35}{372}, \frac{101}{372}, -\frac{10}{93})$ $+\frac{1}{186}\sqrt{20706}e^1 \otimes e_5 + \frac{1}{93}\sqrt{4522}e^4 \otimes e_9$	{12369, 1239, 12689, 1289, 13679, 1379, 16789, 1789, 2345678, 234578, 24567, 2457, 34568, 3458, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{6}{499}\sqrt{763}e^{12}, \frac{6}{499}\sqrt{763}e^{13}, \frac{12}{499}\sqrt{154}e^{27}$	$(\frac{2}{499}, \frac{67}{499}, -\frac{61}{499}, -\frac{124}{499}, \frac{111}{499}, -\frac{15}{499}, \frac{69}{499}, -\frac{59}{499}, \frac{136}{499})$ $+\frac{126}{499}e^5 \otimes e_6 + \frac{12}{499}\sqrt{301}e^1 \otimes e_4 + \frac{36}{499}\sqrt{42}e^2 \otimes e_8$	{12359, 12369, 15789, 16789, 2457, 2467, 3458, 3468}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{72098}e^{12}, \frac{1}{1673}\sqrt{108758}e^{13}, \frac{3}{239}\sqrt{1222}e^{27}$	$(-\frac{172}{1673}, \frac{120}{1673}, \frac{414}{1673}, -\frac{491}{1673}, \frac{97}{239}, -\frac{197}{1673}, -\frac{52}{1673}, \frac{242}{1673}, \frac{68}{1673})$ $+\frac{10}{1673}\sqrt{4277}e^3 \otimes e_6 + \frac{2}{1673}\sqrt{160693}e^5 \otimes e_9 + \frac{2}{1673}\sqrt{196742}e^2 \otimes e_4$	{1239, 12689, 13479, 146789, 23578, 2567, 3458, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{237}\sqrt{602}e^{12}, \frac{4}{237}\sqrt{645}e^{13}, \frac{2}{237}\sqrt{1634}e^{27}$	$(\frac{28}{237}, -\frac{10}{79}, \frac{18}{79}, -\frac{58}{237}, \frac{65}{237}, -\frac{7}{79}, -\frac{2}{237}, \frac{82}{237}, -\frac{32}{237})$ $+\frac{4}{237}\sqrt{989}e^3 \otimes e_9 + \frac{86}{237}e^5 \otimes e_6 + \frac{8}{237}\sqrt{215}e^1 \otimes e_4$	{12589, 12689, 15789, 16789, 234578, 234678, 3458, 3468}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{66}e^{12}, \frac{2}{55}\sqrt{66}e^{13}, \frac{2}{55}\sqrt{138}e^{27}$	$(-\frac{28}{165}, \frac{4}{33}, -\frac{2}{55}, \frac{43}{165}, \frac{2}{5}, -\frac{1}{15}, -\frac{8}{165}, -\frac{34}{165}, \frac{4}{55})$ $+\frac{12}{55}\sqrt{6}e^2 \otimes e_8 + \frac{18}{55}e^4 \otimes e_6 + \frac{2}{11}\sqrt{6}e^5 \otimes e_9$	{12349, 12369, 14789, 16789, 2457, 2567, 3458, 3568}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{38}e^{12}, \frac{1}{42}\sqrt{57}e^{13}, \frac{1}{21}\sqrt{133}e^{27}$	$(-\frac{1}{14}, \frac{5}{84}, \frac{1}{7}, \frac{1}{2}, -\frac{11}{28}, \frac{3}{28}, -\frac{1}{84}, \frac{1}{14}, \frac{1}{21})$ $+\frac{1}{42}\sqrt{627}e^4 \otimes e_9 + \frac{1}{42}\sqrt{798}e^2 \otimes e_5$	{123689, 12389, 1269, 129, 1356789, 135789, 15679, 1579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{2081}\sqrt{6279}e^{12}, \frac{1}{2081}\sqrt{661710}e^{13}, \frac{30}{2081}\sqrt{322}e^{27}$	$(\frac{52}{2081}, -\frac{160}{2081}, \frac{215}{2081}, -\frac{431}{2081}, \frac{750}{2081}, \frac{166}{2081}, -\frac{108}{2081}, \frac{267}{2081}, -\frac{268}{2081})$ $+\frac{2}{2081}\sqrt{177261}e^3 \otimes e_9 + \frac{3}{2081}\sqrt{64078}e^1 \otimes e_4 + \frac{4}{2081}\sqrt{35259}e^5 \otimes e_8$	{12689, 1289, 16789, 1789, 234678, 23478, 3468, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{8}{229}\sqrt{170}e^{12}, \frac{8}{229}\sqrt{170}e^{13}, \frac{6}{229}\sqrt{85}e^{27}$	$(\frac{64}{229}, -\frac{14}{229}, \frac{106}{229}, \frac{128}{229}, \frac{27}{229}, \frac{27}{229}, \frac{50}{229}, -\frac{42}{229}, \frac{36}{229})$ $+\frac{2}{229}\sqrt{8585}e^1 \otimes e_3 + \frac{2}{229}\sqrt{8585}e^4 \otimes e_8$	{125689, 12589, 1289, 156789, 15789, 1789, 235678, 23578, 2378, 3568, 358, 38}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{773}\sqrt{3649}e^{12}, \frac{8}{773}\sqrt{2337}e^{13}, \frac{4}{773}\sqrt{6765}e^{27}$	$(-\frac{227}{773}, \frac{241}{773}, \frac{140}{773}, -\frac{188}{773}, \frac{90}{773}, \frac{90}{773}, \frac{14}{773}, -\frac{87}{773}, \frac{255}{773})$ $+\frac{36}{773}\sqrt{205}e^2 \otimes e_8 + \frac{4}{773}\sqrt{11398}e^3 \otimes e_4$	{123569, 12359, 1239, 1456789, 145789, 14789, 24567, 2457, 247, 3568, 358, 38}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{189}\sqrt{1310}e^{12}, \frac{1}{189}\sqrt{9694}e^{13}, \frac{1}{189}\sqrt{9170}e^{27}$	$(-\frac{10}{189}, -\frac{8}{189}, \frac{23}{63}, \frac{5}{9}, -\frac{62}{189}, \frac{22}{189}, -\frac{2}{21}, \frac{59}{189}, -\frac{26}{189})$ $+\frac{1}{189}\sqrt{21746}e^4 \otimes e_9 + \frac{2}{189}\sqrt{5502}e^3 \otimes e_5$	{123467, 12347, 1245678, 124578, 134, 1346, 14568, 1458, 23689, 2389, 2569, 259, 36789, 3789, 5679, 579}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{144}\sqrt{246}e^{12}, \frac{1}{144}\sqrt{3854}e^{13}, \frac{1}{144}\sqrt{287}e^{27}$	$(\frac{1}{24}, \frac{1}{36}, \frac{5}{96}, -\frac{35}{144}, \frac{109}{288}, -\frac{67}{288}, \frac{5}{72}, \frac{3}{32}, \frac{7}{72})$ $+\frac{1}{144}\sqrt{3731}e^1 \otimes e_4 + \frac{1}{72}\sqrt{902}e^3 \otimes e_6 + \frac{1}{72}\sqrt{902}e^5 \otimes e_8$	{12359, 12689, 13579, 16789, 23478, 24567, 348, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{6}e^{12}, \frac{84}{151}e^{13}, \frac{14}{151}\sqrt{34}e^{27}$	$(-\frac{12}{151}, -\frac{10}{151}, \frac{66}{151}, \frac{67}{151}, -\frac{31}{151}, \frac{18}{151}, -\frac{22}{151}, \frac{54}{151}, -\frac{32}{151})$ $+\frac{28}{151}\sqrt{21}e^3 \otimes e_9 + \frac{98}{151}e^4 \otimes e_5$	{123467, 12347, 123567, 12357, 134, 1346, 135, 1356, 2469, 249, 2569, 259, 4679, 479, 5679, 579}
931:2	$0, 0, 0, 0, 0, 0, \frac{3}{4}e^{12}, \frac{3}{4}e^{13}, \frac{3}{8}e^{27}$	$(\frac{1}{2}, -\frac{1}{8}, -\frac{1}{16}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{3}{8}, \frac{7}{16}, \frac{1}{4})$ $+\frac{3}{8}\sqrt{13}e^1 \otimes e_4$	{123569, 12359, 1239, 125689, 12589, 1289, 135679, 13579, 1379, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 34568, 3458, 348, 4, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{170}e^{12}, \frac{4}{157}\sqrt{170}e^{13}, \frac{3}{157}\sqrt{85}e^{27}$	$(\frac{32}{157}, -\frac{7}{157}, -\frac{53}{157}, \frac{56}{157}, \frac{64}{157}, -\frac{29}{157}, \frac{25}{157}, -\frac{21}{157}, \frac{18}{157})$ $+\frac{1}{157}\sqrt{8585}e^1 \otimes e_3 + \frac{1}{157}\sqrt{8585}e^5 \otimes e_8 + \frac{85}{157}e^4 \otimes e_6$	{12489, 12689, 14789, 16789, 23478, 23678, 348, 368}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{518}\sqrt{39198}e^{12}, \frac{1}{518}\sqrt{9165}e^{13}, \frac{3}{259}\sqrt{987}e^{27}$	$(\frac{75}{518}, -\frac{41}{1036}, -\frac{33}{259}, -\frac{323}{1036}, \frac{25}{74}, \frac{83}{1036}, \frac{109}{1036}, \frac{9}{518}, \frac{17}{259})$ $+\frac{1}{259}\sqrt{9870}e^1 \otimes e_3 + \frac{1}{518}\sqrt{57246}e^2 \otimes e_4 + \frac{3}{518}\sqrt{4183}e^5 \otimes e_9$	{1269, 129, 14679, 1479, 23567, 2357, 345, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:2	$0, 0, 0, 0, 0, 0, \frac{14}{61}\sqrt{3}e^{12}, \frac{14}{61}\sqrt{3}e^{13}, \frac{28}{61}e^{27}$	$(\frac{6}{61}, \frac{5}{61}, \frac{9}{61}, 1, -\frac{37}{61}, \frac{12}{61}, \frac{11}{61}, \frac{15}{61}, \frac{16}{61})$ $+ \frac{98}{61}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 134679, 13479, 135679, 13579, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 3468, 348, 3568, 358, 4, 46, 5, 56}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{2}{313}\sqrt{6501}e^{27}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{6}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{28}{313}, -\frac{43}{313}, \frac{105}{313})$ $+ \frac{1}{313}\sqrt{45310}e^4 \otimes e_8 + \frac{1}{313}\sqrt{62646}e^2 \otimes e_5$	{123469, 12349, 12689, 1289, 1345679, 134579, 156789, 15789, 23678, 2378, 2467, 247, 3568, 358, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{10}{63}\sqrt{2}e^{12}, \frac{5}{63}\sqrt{34}e^{13}, \frac{5}{63}\sqrt{14}e^{27}$	$(-\frac{8}{63}, \frac{2}{63}, \frac{1}{7}, \frac{26}{63}, \frac{1}{3}, -\frac{16}{63}, -\frac{2}{21}, \frac{1}{63}, -\frac{4}{63})$ $+ \frac{20}{63}\sqrt{2}e^5 \otimes e_9 + \frac{5}{63}\sqrt{42}e^3 \otimes e_6 + \frac{5}{63}\sqrt{42}e^4 \otimes e_8$	{123457, 125678, 1345, 1568, 2389, 2469, 3789, 4679}
931:2	$0, 0, 0, 0, 0, 0, \frac{6}{1889}\sqrt{5478}e^{12}, \frac{15}{1889}\sqrt{2822}e^{13}, \frac{3}{1889}\sqrt{36022}e^{27}$	$(\frac{264}{1889}, -\frac{180}{1889}, \frac{330}{1889}, -\frac{483}{1889}, \frac{651}{1889}, -\frac{417}{1889}, \frac{84}{1889}, \frac{594}{1889}, -\frac{96}{1889})$ $+ \frac{6}{1889}\sqrt{20003}e^5 \otimes e_9 + \frac{6}{1889}\sqrt{24319}e^3 \otimes e_6 + \frac{6}{1889}\sqrt{27058}e^1 \otimes e_4$	{1239, 12689, 1379, 16789, 234578, 24567, 3458, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{645}e^{12}, \frac{1}{97}\sqrt{602}e^{13}, \frac{1}{97}\sqrt{1634}e^{27}$	$(\frac{14}{97}, \frac{8}{97}, \frac{4}{97}, -\frac{29}{97}, -\frac{35}{97}, \frac{11}{97}, \frac{22}{97}, \frac{18}{97}, \frac{30}{97})$ $+ \frac{2}{97}\sqrt{989}e^2 \otimes e_5 + \frac{4}{97}\sqrt{215}e^1 \otimes e_4$	{12369, 1239, 12689, 1289, 135679, 13579, 156789, 15789, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{371}\sqrt{1490}e^{12}, \frac{9}{371}\sqrt{298}e^{13}, \frac{1}{371}\sqrt{14006}e^{27}$	$(-\frac{68}{371}, \frac{74}{371}, \frac{67}{371}, -\frac{75}{371}, \frac{148}{371}, -\frac{82}{371}, \frac{6}{371}, -\frac{1}{371}, \frac{80}{371})$ $+ \frac{1}{371}\sqrt{34270}e^3 \otimes e_6 + \frac{1}{371}\sqrt{34270}e^5 \otimes e_8 + \frac{6}{371}\sqrt{894}e^2 \otimes e_4$	{12359, 12689, 134579, 146789, 2378, 2567, 348, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{7}{143}\sqrt{33}e^{12}, \frac{7}{143}\sqrt{33}e^{13}, \frac{7}{143}\sqrt{79}e^{27}$	$(-\frac{3}{22}, \frac{10}{143}, \frac{9}{26}, -\frac{3}{11}, \frac{38}{143}, -\frac{1}{13}, -\frac{19}{286}, \frac{30}{143}, \frac{1}{286})$ $+ \frac{49}{143}e^5 \otimes e_6 + \frac{7}{143}\sqrt{105}e^2 \otimes e_4 + \frac{7}{143}\sqrt{105}e^3 \otimes e_9$	{12589, 12689, 145789, 146789, 23578, 23678, 3458, 3468}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{189}\sqrt{1310}e^{12}, \frac{1}{189}\sqrt{9694}e^{13}, \frac{1}{189}\sqrt{9170}e^{27}$	$(-\frac{10}{189}, -\frac{8}{189}, -\frac{5}{63}, \frac{106}{189}, \frac{5}{9}, \frac{22}{189}, -\frac{2}{21}, -\frac{25}{189}, -\frac{26}{189})$ $+ \frac{1}{189}\sqrt{21746}e^5 \otimes e_9 + \frac{2}{189}\sqrt{5502}e^4 \otimes e_8$	{1234567, 123457, 125678, 12578, 1345, 13456, 1568, 158, 23689, 2389, 2469, 249, 36789, 3789, 4679, 479}
931:2	$0, 0, 0, 0, 0, 0, \frac{8}{839}\sqrt{3477}e^{12}, \frac{2}{839}\sqrt{13359}e^{13}, \frac{12}{839}\sqrt{854}e^{27}$	$(\frac{189}{839}, \frac{32}{839}, -\frac{177}{839}, -\frac{334}{839}, \frac{85}{839}, \frac{85}{839}, \frac{221}{839}, \frac{12}{839}, \frac{253}{839})$ $+ \frac{2}{839}\sqrt{61305}e^1 \otimes e_3 + \frac{2}{839}\sqrt{76677}e^2 \otimes e_4$	{12569, 1259, 129, 145679, 14579, 1479, 23567, 2357, 237, 34, 345, 3456}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{247}\sqrt{2219}e^{12}, \frac{1}{247}\sqrt{55158}e^{13}, \frac{1}{247}\sqrt{9510}e^{27}$	$(-\frac{28}{247}, \frac{44}{247}, \frac{160}{247}, -\frac{157}{247}, \frac{45}{247}, \frac{45}{247}, \frac{16}{247}, \frac{132}{247}, \frac{60}{247})$ $+ \frac{2}{247}\sqrt{32017}e^3 \otimes e_4$	{123567, 12357, 1237, 1245678, 124578, 12478, 13, 135, 1356, 14568, 1458, 148, 235689, 23589, 2389, 24569, 2459, 249, 356789, 35789, 3789, 45679, 4579, 479}
931:2	$0, 0, 0, 0, 0, 0, \frac{14}{237}\sqrt{33}e^{12}, \frac{14}{237}\sqrt{33}e^{13}, \frac{14}{237}\sqrt{79}e^{27}$	$(-\frac{13}{79}, \frac{20}{237}, \frac{33}{79}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{19}{237}, \frac{20}{79}, \frac{1}{237})$ $+ \frac{14}{237}\sqrt{105}e^2 \otimes e_4 + \frac{14}{237}\sqrt{105}e^3 \otimes e_9$	{125689, 12589, 1289, 1456789, 145789, 14789, 235678, 23578, 2378, 34568, 3458, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{12}{25}e^{12}, \frac{12}{25}e^{13}, \frac{6}{25}e^{27}$	$(\frac{8}{25}, -\frac{2}{25}, -\frac{1}{25}, \frac{12}{25}, -\frac{2}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{7}{25}, \frac{4}{25})$ $+ \frac{18}{25}e^4 \otimes e_6 + \frac{6}{25}\sqrt{13}e^1 \otimes e_5$	{12349, 12369, 12489, 12689, 13479, 13679, 14789, 16789, 234578, 235678, 2457, 2567, 3458, 3568, 45, 56}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{4294}e^{12}, \frac{3}{208}\sqrt{1582}e^{13}, \frac{1}{208}\sqrt{1695}e^{27}$	$(\frac{19}{104}, -\frac{1}{52}, \frac{95}{416}, -\frac{75}{208}, -\frac{131}{416}, \frac{45}{416}, \frac{17}{104}, \frac{171}{416}, \frac{15}{104})$ $+ \frac{1}{208}\sqrt{22035}e^1 \otimes e_4 + \frac{1}{52}\sqrt{1243}e^3 \otimes e_5$	{12369, 1239, 125689, 12589, 13679, 1379, 156789, 15789, 234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{6}{1889}\sqrt{5478}e^{12}, \frac{15}{1889}\sqrt{2822}e^{13}, \frac{3}{1889}\sqrt{36022}e^{27}$	$(\frac{264}{1889}, -\frac{180}{1889}, -\frac{256}{1889}, \frac{755}{1889}, \frac{651}{1889}, -\frac{483}{1889}, \frac{84}{1889}, \frac{8}{1889}, -\frac{96}{1889})$ $+ \frac{6}{1889}\sqrt{20003}e^5 \otimes e_9 + \frac{6}{1889}\sqrt{24319}e^4 \otimes e_8 + \frac{6}{1889}\sqrt{27058}e^1 \otimes e_6$	{12349, 1289, 13479, 1789, 235678, 24567, 3568, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{1917}\sqrt{184630}e^{12}, \frac{1}{1917}\sqrt{412174}e^{13}, \frac{1}{1917}\sqrt{486026}e^{27}$	$(-\frac{422}{1917}, \frac{296}{1917}, \frac{73}{639}, -\frac{280}{1917}, \frac{223}{639}, \frac{176}{1917}, -\frac{14}{213}, -\frac{203}{1917}, \frac{170}{1917})$ $+ \frac{1}{1917}\sqrt{492014}e^5 \otimes e_9 + \frac{4}{1917}\sqrt{28443}e^3 \otimes e_4 + \frac{4}{639}\sqrt{5489}e^2 \otimes e_8$	{12369, 1239, 146789, 14789, 24567, 2457, 3568, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:2	$0, 0, 0, 0, 0, 0, \frac{8}{773}\sqrt{2337}e^{12}, \frac{4}{773}\sqrt{3649}e^{13}, \frac{4}{773}\sqrt{6765}e^{27}$	$(\frac{51}{773}, \frac{102}{773}, -\frac{277}{773}, \frac{90}{773}, \frac{90}{773}, \frac{90}{773}, \frac{153}{773}, -\frac{226}{773}, \frac{255}{773})$ $+ \frac{36}{773}\sqrt{205}e^2 \otimes e_8 + \frac{4}{773}\sqrt{11398}e^1 \otimes e_3$	{1456789, 145789, 14789, 1789, 34568, 3458, 348, 38}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{66}e^{13}, \frac{1}{23}\sqrt{138}e^{27}$	$(-\frac{14}{69}, \frac{10}{69}, -\frac{1}{23}, \frac{11}{69}, \frac{8}{69}, \frac{8}{69}, -\frac{4}{69}, -\frac{17}{69}, \frac{2}{23})$ $+ \frac{5}{23}\sqrt{6}e^4 \otimes e_9 + \frac{6}{23}\sqrt{6}e^2 \otimes e_8$	{123569, 12359, 1239, 156789, 15789, 1789, 24567, 2457, 247, 34568, 3458, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{2}{313}\sqrt{6501}e^{27}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{121}{313}, -\frac{120}{313}, -\frac{76}{313}, \frac{39}{313}, \frac{28}{313}, \frac{72}{313}, \frac{105}{313})$ $+ \frac{1}{313}\sqrt{45310}e^3 \otimes e_5 + \frac{1}{313}\sqrt{62646}e^2 \otimes e_4$	{12369, 1239, 125689, 12589, 134679, 13479, 1456789, 145789, 23678, 2378, 2567, 257, 3468, 348, 45, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{511}\sqrt{13359}e^{12}, \frac{4}{511}\sqrt{3477}e^{13}, \frac{6}{511}\sqrt{854}e^{27}$	$(-\frac{1}{7}, -\frac{5}{511}, \frac{100}{511}, \frac{134}{511}, \frac{30}{511}, -\frac{7}{73}, -\frac{78}{511}, \frac{27}{511}, -\frac{83}{511})$ $+ \frac{183}{511}e^4 \otimes e_6 + \frac{1}{511}\sqrt{61305}e^5 \otimes e_8 + \frac{1}{511}\sqrt{76677}e^3 \otimes e_9$	{123457, 123567, 1345, 1356, 2459, 2569, 4579, 5679}
931:2	$0, 0, 0, 0, 0, 0, \frac{20}{507}\sqrt{47}e^{12}, \frac{20}{507}\sqrt{47}e^{13}, \frac{4}{507}\sqrt{1410}e^{27}$	$(-\frac{7}{507}, \frac{11}{169}, -\frac{18}{169}, -\frac{101}{507}, \frac{51}{169}, \frac{46}{507}, \frac{2}{39}, -\frac{61}{507}, \frac{59}{507})$ $+ \frac{14}{507}\sqrt{141}e^1 \otimes e_4 + \frac{2}{169}\sqrt{1081}e^2 \otimes e_8 + \frac{2}{507}\sqrt{5029}e^5 \otimes e_9$	{12369, 1239, 16789, 1789, 24567, 2457, 34568, 3458}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{937}\sqrt{3649}e^{12}, \frac{8}{937}\sqrt{2337}e^{13}, \frac{4}{937}\sqrt{6765}e^{27}$	$(-\frac{227}{937}, \frac{241}{937}, \frac{140}{937}, -\frac{188}{937}, \frac{254}{937}, -\frac{74}{937}, \frac{14}{937}, -\frac{87}{937}, \frac{255}{937})$ $+ \frac{328}{937}e^5 \otimes e_6 + \frac{36}{937}\sqrt{205}e^2 \otimes e_8 + \frac{4}{937}\sqrt{11398}e^3 \otimes e_4$	{12359, 12369, 145789, 146789, 2457, 2467, 358, 368}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{811}\sqrt{2219}e^{12}, \frac{2}{811}\sqrt{55158}e^{13}, \frac{2}{811}\sqrt{9510}e^{27}$	$(-\frac{56}{811}, \frac{88}{811}, -\frac{84}{811}, \frac{407}{811}, \frac{494}{811}, -\frac{227}{811}, \frac{32}{811}, -\frac{140}{811}, \frac{120}{811})$ $+ \frac{4}{811}\sqrt{32017}e^5 \otimes e_8 + \frac{634}{811}e^4 \otimes e_6$	{123457, 123567, 12478, 12678, 1345, 1356, 148, 168, 23489, 23689, 2459, 2569, 34789, 36789, 4579, 5679}
931:2	$0, 0, 0, 0, 0, 0, \frac{22}{223}\sqrt{10}e^{12}, \frac{99}{223}\sqrt{2}e^{13}, \frac{11}{223}\sqrt{14}e^{27}$	$(-\frac{40}{223}, \frac{34}{223}, \frac{41}{223}, \frac{122}{223}, -\frac{80}{223}, \frac{21}{223}, -\frac{6}{223}, \frac{1}{223}, \frac{28}{223})$ $+ \frac{11}{223}\sqrt{202}e^3 \otimes e_5 + \frac{11}{223}\sqrt{202}e^4 \otimes e_8$	{123467, 12347, 125678, 12578, 134, 1346, 1568, 158, 23689, 2389, 24569, 2459, 36789, 3789, 45679, 4579}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{74630}e^{12}, \frac{1}{1587}\sqrt{304666}e^{13}, \frac{2}{1587}\sqrt{87361}e^{27}$	$(-\frac{97}{529}, \frac{119}{1587}, \frac{386}{1587}, -\frac{320}{1587}, \frac{178}{529}, \frac{47}{529}, -\frac{172}{1587}, \frac{95}{1587}, -\frac{53}{1587})$ $+ \frac{1}{1587}\sqrt{345054}e^5 \otimes e_8 + \frac{1}{1587}\sqrt{404758}e^2 \otimes e_4 + \frac{4}{1587}\sqrt{32486}e^3 \otimes e_9$	{12689, 1289, 146789, 14789, 23678, 2378, 3468, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{602}e^{12}, \frac{2}{97}\sqrt{645}e^{13}, \frac{1}{97}\sqrt{1634}e^{27}$	$(\frac{14}{97}, -\frac{15}{97}, \frac{27}{97}, -\frac{29}{97}, \frac{11}{97}, \frac{11}{97}, -\frac{1}{97}, \frac{41}{97}, -\frac{16}{97})$ $+ \frac{2}{97}\sqrt{989}e^3 \otimes e_9 + \frac{4}{97}\sqrt{215}e^1 \otimes e_4$	{125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 34568, 3458, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{953}\sqrt{1794}e^{12}, \frac{12}{953}\sqrt{667}e^{13}, \frac{4}{953}\sqrt{6601}e^{27}$	$(-\frac{249}{953}, \frac{130}{953}, \frac{195}{953}, -\frac{2}{953}, \frac{182}{953}, \frac{90}{953}, -\frac{119}{953}, -\frac{54}{953}, \frac{11}{953})$ $+ \frac{184}{953}e^5 \otimes e_4 + \frac{36}{953}\sqrt{115}e^2 \otimes e_8 + \frac{4}{953}\sqrt{8418}e^3 \otimes e_9$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{1917}\sqrt{412174}e^{12}, \frac{1}{1917}\sqrt{184630}e^{13}, \frac{1}{1917}\sqrt{486026}e^{27}$	$(\frac{34}{1917}, \frac{68}{1917}, -\frac{155}{639}, \frac{176}{1917}, \frac{223}{639}, \frac{176}{1917}, \frac{34}{639}, -\frac{431}{1917}, \frac{170}{1917})$ $+ \frac{1}{1917}\sqrt{492014}e^5 \otimes e_9 + \frac{4}{1917}\sqrt{28443}e^1 \otimes e_3 + \frac{4}{639}\sqrt{5489}e^2 \otimes e_8$	{146789, 14789, 1789, 34568, 3458, 358}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{6}e^{12}, \frac{2}{23}\sqrt{6}e^{13}, \frac{2}{23}\sqrt{42}e^{27}$	$(\frac{4}{69}, -\frac{8}{69}, \frac{2}{23}, \frac{35}{69}, \frac{14}{23}, -\frac{19}{69}, -\frac{4}{69}, \frac{10}{69}, -\frac{4}{23})$ $+ \frac{18}{23}e^4 \otimes e_6 + \frac{2}{23}\sqrt{102}e^5 \otimes e_9$	{12349, 12369, 12489, 12689, 13479, 13679, 14789, 16789, 234578, 235678, 2457, 2567, 3458, 3568, 45, 56}
931:2	$0, 0, 0, 0, 0, 0, \frac{5}{1571}\sqrt{19822}e^{12}, \frac{1}{1571}\sqrt{3498}e^{13}, \frac{2}{1571}\sqrt{75207}e^{27}$	$(\frac{217}{1571}, \frac{91}{1571}, -\frac{366}{1571}, -\frac{492}{1571}, \frac{434}{1571}, \frac{141}{1571}, \frac{308}{1571}, -\frac{149}{1571}, \frac{399}{1571})$ $+ \frac{12}{1571}\sqrt{4081}e^1 \otimes e_3 + \frac{1}{1571}\sqrt{341638}e^5 \otimes e_8 + \frac{1}{1571}\sqrt{738078}e^2 \otimes e_4$	{12689, 1289, 146789, 14789, 23678, 2378, 3468, 348}
931:2	$0, 0, 0, 0, 0, 0, \frac{8}{937}\sqrt{2337}e^{12}, \frac{4}{937}\sqrt{3649}e^{13}, \frac{4}{937}\sqrt{6765}e^{27}$	$(\frac{51}{937}, \frac{102}{937}, -\frac{277}{937}, -\frac{74}{937}, \frac{254}{937}, \frac{90}{937}, \frac{153}{937}, -\frac{226}{937}, \frac{255}{937})$ $+ \frac{328}{937}e^5 \otimes e_4 + \frac{36}{937}\sqrt{205}e^2 \otimes e_8 + \frac{4}{937}\sqrt{11398}e^1 \otimes e_3$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{1749}e^{13}, \frac{4}{185}\sqrt{583}e^{27}$	$(-\frac{42}{185}, \frac{11}{37}, -\frac{9}{185}, \frac{77}{185}, -\frac{29}{185}, \frac{24}{185}, \frac{13}{185}, -\frac{51}{185}, \frac{68}{185})$ $+ \frac{106}{185}e^4 \otimes e_5 + \frac{12}{185}\sqrt{159}e^2 \otimes e_8$	{123469, 12349, 123569, 12359, 146789, 14789, 156789, 15789, 2467, 247, 2567, 257, 3468, 348, 3568, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{55158}e^{12}, \frac{4}{811}\sqrt{2219}e^{13}, \frac{2}{811}\sqrt{9510}e^{27}$	$(\frac{348}{811}, -\frac{114}{811}, -\frac{286}{811}, \frac{407}{811}, -\frac{227}{811}, \frac{90}{811}, \frac{234}{811}, \frac{62}{811}, \frac{120}{811})$ $+\frac{4}{811}\sqrt{32017}e^1 \otimes e_3 + \frac{634}{811}e^4 \otimes e_5$	{12469, 1249, 12569, 1259, 14679, 1479, 15679, 1579, 23467, 2347, 23567, 2357, 34, 346, 35, 356}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{811}\sqrt{2219}e^{12}, \frac{2}{811}\sqrt{55158}e^{13}, \frac{2}{811}\sqrt{9510}e^{27}$	$(-\frac{56}{811}, \frac{88}{811}, \frac{320}{811}, \frac{407}{811}, -\frac{314}{811}, -\frac{227}{811}, \frac{32}{811}, \frac{264}{811}, \frac{120}{811})$ $+\frac{4}{811}\sqrt{32017}e^3 \otimes e_5 + \frac{634}{811}e^4 \otimes e_6$	{12347, 12367, 124578, 125678, 134, 136, 1458, 1568, 23489, 23689, 2459, 2569, 34789, 36789, 4579, 5679}
931:2	$0, 0, 0, 0, 0, 0, \frac{14}{17}e^{12}, \frac{7}{51}\sqrt{6}e^{13}, \frac{7}{51}\sqrt{34}e^{27}$	$(-\frac{2}{17}, \frac{16}{51}, \frac{4}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{10}{51}, \frac{2}{17}, \frac{26}{51})$ $+\frac{14}{51}\sqrt{21}e^2 \otimes e_4$	{1235689, 123589, 12389, 12569, 1259, 129, 13456789, 1345789, 134789, 145679, 14579, 1479, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{839}\sqrt{13359}e^{12}, \frac{8}{839}\sqrt{3477}e^{13}, \frac{12}{839}\sqrt{854}e^{27}$	$(-\frac{146}{839}, -\frac{10}{839}, \frac{200}{839}, \frac{420}{839}, \frac{85}{839}, \frac{85}{839}, -\frac{156}{839}, \frac{54}{839}, -\frac{166}{839})$ $+\frac{2}{839}\sqrt{61305}e^4 \otimes e_8 + \frac{2}{839}\sqrt{76677}e^3 \otimes e_9$	{1234567, 123457, 12347, 134, 1345, 13456, 24569, 2459, 249, 45679, 4579, 479}
931:2	$0, 0, 0, 0, 0, 0, \frac{6}{1913}\sqrt{13098}e^{12}, \frac{3}{1913}\sqrt{10030}e^{13}, \frac{3}{1913}\sqrt{54398}e^{27}$	$(\frac{170}{1913}, -\frac{18}{1913}, \frac{84}{1913}, -\frac{361}{1913}, \frac{665}{1913}, -\frac{549}{1913}, \frac{152}{1913}, \frac{254}{1913}, \frac{134}{1913})$ $+\frac{12}{1913}\sqrt{3658}e^5 \otimes e_9 + \frac{6}{1913}\sqrt{15635}e^1 \otimes e_4 + \frac{6}{1913}\sqrt{21181}e^2 \otimes e_6$	{1239, 1289, 13679, 16789, 234578, 2457, 34568, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{4}{511}\sqrt{3477}e^{12}, \frac{1}{511}\sqrt{13359}e^{13}, \frac{6}{511}\sqrt{854}e^{27}$	$(\frac{27}{146}, \frac{16}{511}, -\frac{177}{1022}, -\frac{167}{511}, \frac{134}{511}, -\frac{7}{73}, \frac{221}{1022}, \frac{6}{511}, \frac{253}{1022})$ $+\frac{183}{511}e^5 \otimes e_6 + \frac{1}{511}\sqrt{61305}e^1 \otimes e_3 + \frac{1}{511}\sqrt{76677}e^2 \otimes e_4$	{1259, 1269, 14579, 14679, 2357, 2367, 345, 346}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{509}\sqrt{9694}e^{12}, \frac{2}{509}\sqrt{1310}e^{13}, \frac{2}{509}\sqrt{9170}e^{27}$	$(\frac{148}{509}, -\frac{100}{509}, -\frac{114}{509}, \frac{175}{509}, \frac{210}{509}, -\frac{87}{509}, \frac{48}{509}, \frac{34}{509}, -\frac{52}{509})$ $+\frac{262}{509}e^4 \otimes e_6 + \frac{4}{509}\sqrt{21746}e^5 \otimes e_9 + \frac{4}{509}\sqrt{5502}e^1 \otimes e_3$	{1249, 1269, 1479, 1679, 23457, 23567, 345, 356}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{247}\sqrt{2219}e^{12}, \frac{1}{247}\sqrt{55158}e^{13}, \frac{1}{247}\sqrt{9510}e^{27}$	$(-\frac{28}{247}, \frac{44}{247}, -\frac{42}{247}, 1, \frac{45}{247}, \frac{45}{247}, \frac{16}{247}, -\frac{70}{247}, \frac{60}{247})$ $+\frac{2}{247}\sqrt{32017}e^4 \otimes e_8$	{1234567, 123457, 12347, 125678, 12578, 1278, 134, 1345, 13456, 1568, 158, 18, 235689, 23589, 2389, 24569, 2459, 249, 356789, 35789, 3789, 45679, 4579, 479}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{189}\sqrt{9694}e^{12}, \frac{1}{189}\sqrt{1310}e^{13}, \frac{1}{189}\sqrt{9170}e^{27}$	$(\frac{74}{189}, -\frac{50}{189}, -\frac{19}{63}, \frac{5}{9}, \frac{22}{189}, \frac{22}{189}, \frac{8}{63}, \frac{17}{189}, \frac{26}{189})$ $+\frac{1}{189}\sqrt{21746}e^4 \otimes e_9 + \frac{2}{189}\sqrt{5502}e^1 \otimes e_3$	{12569, 1259, 129, 15679, 1579, 179, 234567, 23457, 2347, 34, 345, 3456}
931:2	$0, 0, 0, 0, 0, 0, \frac{14}{1681}\sqrt{1870}e^{12}, \frac{21}{1681}\sqrt{638}e^{13}, \frac{7}{1681}\sqrt{5214}e^{27}$	$(\frac{122}{1681}, \frac{134}{1681}, -\frac{108}{1681}, -\frac{417}{1681}, \frac{553}{1681}, -\frac{405}{1681}, \frac{256}{1681}, \frac{14}{1681}, \frac{390}{1681})$ $+\frac{140}{1681}\sqrt{22}e^5 \otimes e_8 + \frac{14}{1681}\sqrt{3135}e^1 \otimes e_4 + \frac{42}{1681}\sqrt{341}e^2 \otimes e_6$	{12359, 1289, 135679, 16789, 23478, 2457, 3468, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{72098}e^{12}, \frac{1}{1673}\sqrt{108758}e^{13}, \frac{3}{239}\sqrt{1222}e^{27}$	$(-\frac{172}{1673}, \frac{120}{1673}, \frac{64}{1673}, \frac{503}{1673}, \frac{97}{239}, -\frac{491}{1673}, -\frac{52}{1673}, -\frac{108}{1673}, \frac{68}{1673})$ $+\frac{10}{1673}\sqrt{4277}e^4 \otimes e_8 + \frac{2}{1673}\sqrt{160693}e^5 \otimes e_9 + \frac{2}{1673}\sqrt{196742}e^2 \otimes e_6$	{12349, 1289, 134679, 16789, 23578, 2457, 3568, 456}
931:2	$0, 0, 0, 0, 0, 0, \frac{1}{567}\sqrt{30910}e^{12}, \frac{1}{567}\sqrt{30910}e^{13}, \frac{1}{567}\sqrt{43274}e^{27}$	$(\frac{110}{567}, -\frac{80}{567}, -\frac{19}{63}, \frac{220}{567}, \frac{11}{27}, \frac{52}{567}, \frac{10}{189}, -\frac{61}{567}, -\frac{50}{567})$ $+\frac{1}{567}\sqrt{100598}e^5 \otimes e_9 + \frac{4}{567}\sqrt{5901}e^1 \otimes e_3 + \frac{4}{567}\sqrt{5901}e^4 \otimes e_8$	{12689, 1289, 16789, 1789, 235678, 23578, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{66}e^{12}, \frac{8}{177}\sqrt{118}e^{34}, \frac{8}{177}\sqrt{66}e^{17}$	$(-\frac{15}{59}, \frac{22}{59}, \frac{40}{177}, -\frac{38}{177}, \frac{7}{59}, \frac{7}{59}, \frac{7}{177}, \frac{2}{177}, -\frac{8}{59})$ $+\frac{16}{177}\sqrt{39}e^2 \otimes e_8 + \frac{16}{177}\sqrt{39}e^3 \otimes e_9$	{12569, 1259, 129, 135678, 13578, 1378, 25679, 2579, 279, 3568, 358, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{237}\sqrt{642}e^{12}, \frac{1}{79}\sqrt{214}e^{34}, \frac{1}{237}\sqrt{16906}e^{17}$	$(\frac{17}{237}, -\frac{7}{79}, \frac{6}{79}, \frac{6}{79}, \frac{40}{79}, -\frac{30}{79}, -\frac{4}{237}, \frac{12}{79}, \frac{13}{237})$ $+\frac{1}{237}\sqrt{19902}e^5 \otimes e_9 + \frac{1}{79}\sqrt{2782}e^1 \otimes e_6$	{12349, 12389, 129, 13457, 13578, 157, 234679, 236789, 2679, 3456, 3568, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{357}e^{12}, \frac{2}{93}\sqrt{357}e^{34}, \frac{1}{93}\sqrt{7378}e^{17}$	$(-\frac{19}{93}, \frac{4}{31}, \frac{4}{31}, \frac{4}{31}, 1, \frac{6}{31}, -\frac{7}{93}, \frac{8}{31}, -\frac{26}{93})$ $+\frac{5}{93}\sqrt{714}e^5 \otimes e_9$	{123469, 12349, 123689, 12389, 1269, 129, 134567, 13457, 135678, 13578, 1567, 157, 234679, 23479, 236789, 23789, 2679, 279, 345, 3456, 3568, 358, 5, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{214}e^{12}, \frac{1}{237}\sqrt{16906}e^{34}, \frac{4}{237}\sqrt{642}e^{17}$	$(-\frac{10}{79}, \frac{6}{79}, \frac{65}{237}, -\frac{52}{237}, \frac{40}{79}, \frac{9}{79}, -\frac{4}{79}, \frac{13}{237}, -\frac{14}{79})$ $+\frac{1}{237}\sqrt{19902}e^5 \otimes e_8 + \frac{1}{79}\sqrt{2782}e^3 \otimes e_9$	{124689, 12489, 12569, 1259, 134567, 13457, 13678, 1378, 246789, 24789, 25679, 2579, 345, 3456, 368, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{118}e^{12}, \frac{1}{115}\sqrt{413}e^{34}, \frac{4}{115}\sqrt{118}e^{17}$	$(-\frac{43}{230}, \frac{32}{115}, \frac{73}{230}, -\frac{9}{46}, \frac{48}{115}, -\frac{27}{115}, \frac{21}{230}, \frac{14}{115}, -\frac{11}{115})$ $+\frac{1}{23}\sqrt{177}e^2 \otimes e_6 + \frac{1}{23}\sqrt{177}e^5 \otimes e_9 + \frac{59}{115}e^3 \otimes e_4$	{12389, 12489, 135678, 145678, 23789, 24789, 3568, 4568}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{2093}\sqrt{279870}e^{12}, \frac{1}{2093}\sqrt{470378}e^{34}, \frac{4}{2093}\sqrt{32897}e^{17}$	$(\frac{34}{2093}, -\frac{86}{2093}, \frac{473}{2093}, -\frac{40}{299}, \frac{684}{2093}, -\frac{457}{2093}, -\frac{4}{161}, \frac{193}{2093}, -\frac{18}{2093})$ $+\frac{1}{2093}\sqrt{476270}e^5 \otimes e_8 + \frac{1}{2093}\sqrt{739446}e^3 \otimes e_9 + \frac{4}{2093}\sqrt{40262}e^1 \otimes e_6$	{12489, 1259, 13457, 1378, 246789, 25679, 3456, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{357}e^{12}, \frac{2}{93}\sqrt{357}e^{34}, \frac{1}{93}\sqrt{7378}e^{17}$	$(\frac{56}{93}, -\frac{21}{31}, \frac{4}{31}, \frac{4}{31}, \frac{6}{31}, \frac{6}{31}, -\frac{7}{93}, \frac{8}{31}, \frac{49}{93})$ $+\frac{5}{93}\sqrt{714}e^1 \otimes e_2$	{134567, 13457, 1347, 135678, 13578, 1378, 1567, 157, 17, 2345679, 234579, 23479, 2356789, 235789, 23789, 25679, 2579, 279}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{305}\sqrt{357}e^{12}, \frac{2}{305}\sqrt{7378}e^{34}, \frac{4}{305}\sqrt{357}e^{17}$	$(\frac{12}{305}, \frac{24}{305}, \frac{93}{305}, -\frac{29}{61}, \frac{186}{305}, \frac{36}{305}, \frac{36}{305}, -\frac{52}{305}, \frac{48}{305})$ $+\frac{238}{305}e^3 \otimes e_4 + \frac{2}{61}\sqrt{714}e^5 \otimes e_8$	{123689, 12389, 124689, 12489, 13678, 1378, 14678, 1478, 236789, 23789, 246789, 24789, 368, 38, 468, 48}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{423}\sqrt{12782}e^{12}, \frac{1}{423}\sqrt{18094}e^{34}, \frac{1}{423}\sqrt{18094}e^{17}$	$(\frac{5}{47}, -\frac{35}{423}, \frac{29}{423}, -\frac{67}{423}, \frac{46}{141}, -\frac{6}{47}, \frac{10}{423}, -\frac{38}{423}, \frac{55}{423})$ $+\frac{1}{141}\sqrt{3486}e^1 \otimes e_8 + \frac{1}{423}\sqrt{249}e^3 \otimes e_6 + \frac{8}{423}\sqrt{249}e^5 \otimes e_9$	{12349, 1269, 13457, 1567, 23789, 246789, 358, 4568}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{347}\sqrt{330}e^{12}, \frac{4}{347}\sqrt{545}e^{34}, \frac{4}{347}\sqrt{545}e^{17}$	$(\frac{23}{347}, -\frac{30}{347}, \frac{56}{347}, -\frac{73}{347}, \frac{56}{347}, \frac{16}{347}, -\frac{7}{347}, -\frac{17}{347}, \frac{16}{347})$ $+\frac{36}{347}\sqrt{10}e^1 \otimes e_8 + \frac{40}{347}e^5 \otimes e_6 + \frac{4}{347}\sqrt{645}e^3 \otimes e_9$	{1259, 1269, 13457, 13467, 245789, 246789, 358, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{84}\sqrt{282}e^{12}, \frac{1}{42}\sqrt{658}e^{34}, \frac{1}{84}\sqrt{282}e^{17}$	$(\frac{1}{28}, \frac{1}{14}, \frac{37}{168}, \frac{37}{168}, -\frac{19}{56}, -\frac{19}{56}, \frac{3}{28}, \frac{37}{84}, \frac{7}{84})$ $+\frac{5}{84}\sqrt{141}e^3 \otimes e_5 + \frac{5}{84}\sqrt{141}e^4 \otimes e_6$	{12349, 123689, 12569, 1347, 13678, 1567, 23479, 236789, 25679, 34, 368, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{423}\sqrt{18094}e^{12}, \frac{1}{423}\sqrt{12782}e^{34}, \frac{1}{423}\sqrt{18094}e^{17}$	$(\frac{13}{423}, \frac{29}{423}, -\frac{35}{423}, -\frac{35}{423}, \frac{46}{141}, -\frac{6}{47}, \frac{14}{141}, -\frac{70}{423}, \frac{55}{423})$ $+\frac{1}{141}\sqrt{3486}e^1 \otimes e_8 + \frac{1}{423}\sqrt{249}e^2 \otimes e_6 + \frac{8}{423}\sqrt{249}e^5 \otimes e_9$	{12349, 129, 134567, 1567, 23789, 3568}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{2069}\sqrt{28987}e^{12}, \frac{1}{2069}\sqrt{756490}e^{34}, \frac{1}{2069}\sqrt{312494}e^{17}$	$(-\frac{350}{2069}, \frac{656}{2069}, \frac{285}{2069}, -\frac{336}{2069}, \frac{663}{2069}, -\frac{422}{2069}, \frac{306}{2069}, -\frac{51}{2069}, -\frac{44}{2069})$ $+\frac{1}{2069}\sqrt{1109990}e^2 \otimes e_8 + \frac{3}{2069}\sqrt{97566}e^3 \otimes e_6 + \frac{4}{2069}\sqrt{41006}e^5 \otimes e_9$	{12349, 1269, 13578, 145678, 23479, 2679, 358, 4568}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{2093}\sqrt{32897}e^{12}, \frac{1}{2093}\sqrt{279870}e^{34}, \frac{1}{2093}\sqrt{470378}e^{17}$	$(-\frac{9}{299}, \frac{319}{2093}, -\frac{86}{2093}, -\frac{86}{2093}, \frac{684}{2093}, -\frac{554}{2093}, \frac{256}{2093}, -\frac{172}{2093}, \frac{193}{2093})$ $+\frac{1}{2093}\sqrt{476270}e^5 \otimes e_9 + \frac{1}{2093}\sqrt{739446}e^1 \otimes e_6 + \frac{4}{2093}\sqrt{40262}e^2 \otimes e_8$	{12349, 129, 13578, 234679, 2679, 3568}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{413}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{8}{171}\sqrt{118}e^{17}$	$(-\frac{2}{19}, \frac{14}{171}, -\frac{11}{171}, -\frac{11}{171}, \frac{32}{57}, \frac{32}{57}, -\frac{4}{171}, -\frac{22}{171}, -\frac{22}{171})$ $+\frac{10}{171}\sqrt{177}e^5 \otimes e_8 + \frac{10}{171}\sqrt{177}e^6 \otimes e_9$	{123459, 12389, 1259, 134567, 13678, 1567, 234579, 23789, 2579, 3456, 368, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{69}e^{12}, \frac{1}{6}\sqrt{23}e^{34}, \frac{1}{6}\sqrt{23}e^{17}$	$(-\frac{5}{24}, \frac{1}{8}, \frac{2}{3}, -\frac{7}{48}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{12}, \frac{25}{48}, -\frac{7}{24})$ $+\frac{1}{24}\sqrt{897}e^3 \otimes e_9$	{1245689, 124589, 12489, 12569, 1259, 129, 134567, 13457, 1347, 135678, 13578, 1378, 2456789, 245789, 24789, 25679, 2579, 279, 34, 345, 3456, 3568, 358, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{209}\sqrt{66}e^{12}, \frac{8}{209}\sqrt{118}e^{34}, \frac{8}{209}\sqrt{66}e^{17}$	$(-\frac{45}{209}, \frac{6}{19}, \frac{40}{209}, -\frac{2}{11}, \frac{53}{209}, -\frac{1}{19}, \frac{21}{209}, \frac{2}{209}, -\frac{24}{209})$ $+\frac{16}{209}\sqrt{39}e^2 \otimes e_8 + \frac{16}{209}\sqrt{39}e^3 \otimes e_9 + \frac{64}{209}e^5 \otimes e_6$	{1259, 1269, 13578, 13678, 2579, 2679, 358, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{115}\sqrt{413}e^{12}, \frac{4}{115}\sqrt{118}e^{34}, \frac{4}{115}\sqrt{118}e^{17}$	$(\frac{57}{230}, -\frac{61}{230}, \frac{24}{115}, -\frac{7}{23}, \frac{48}{115}, \frac{21}{230}, -\frac{2}{115}, -\frac{11}{115}, \frac{53}{230})$ $+\frac{1}{23}\sqrt{177}e^1 \otimes e_2 + \frac{1}{23}\sqrt{177}e^5 \otimes e_8 + \frac{59}{115}e^3 \otimes e_4$	{13678, 1378, 14678, 1478, 236789, 23789, 246789, 24789}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{214}e^{12}, \frac{1}{237}\sqrt{16906}e^{34}, \frac{4}{237}\sqrt{642}e^{17}$	$(-\frac{10}{79}, \frac{6}{79}, \frac{41}{237}, \frac{65}{237}, -\frac{22}{79}, \frac{9}{79}, -\frac{4}{79}, \frac{106}{237}, -\frac{14}{79})$ $+\frac{1}{237}\sqrt{19902}e^3 \otimes e_5 + \frac{1}{79}\sqrt{2782}e^4 \otimes e_9$	{123689, 12389, 12569, 1259, 13467, 1347, 145678, 14578, 236789, 23789, 25679, 2579, 34, 346, 4568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{305}\sqrt{357}e^{12}, \frac{4}{305}\sqrt{357}e^{34}, \frac{2}{305}\sqrt{7378}e^{17}$	$(\frac{112}{305}, -\frac{126}{305}, \frac{143}{305}, -\frac{19}{61}, \frac{36}{305}, \frac{36}{305}, -\frac{14}{305}, \frac{48}{305}, \frac{98}{305})$ $+ \frac{238}{305}e^3 \otimes e_4 + \frac{2}{61}\sqrt{714}e^1 \otimes e_2$	{135678, 13578, 1378, 145678, 14578, 1478, 2356789, 235789, 23789, 2456789, 245789, 24789}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{115}\sqrt{413}e^{12}, \frac{4}{115}\sqrt{118}e^{34}, \frac{4}{115}\sqrt{118}e^{17}$	$(-\frac{9}{115}, \frac{7}{115}, \frac{24}{115}, -\frac{7}{23}, \frac{48}{115}, \frac{48}{115}, -\frac{2}{115}, -\frac{11}{115}, -\frac{11}{115})$ $+ \frac{1}{23}\sqrt{177}e^5 \otimes e_8 + \frac{1}{23}\sqrt{177}e^6 \otimes e_9 + \frac{59}{115}e^3 \otimes e_4$	{12389, 12489, 13678, 14678, 23789, 24789, 368, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{147}\sqrt{3102}e^{12}, \frac{1}{147}\sqrt{3102}e^{34}, \frac{1}{21}\sqrt{94}e^{17}$	$(\frac{17}{147}, -\frac{5}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, \frac{6}{49}, \frac{2}{147}, -\frac{10}{49}, \frac{19}{147})$ $+ \frac{3}{49}\sqrt{94}e^1 \otimes e_8 + \frac{4}{147}\sqrt{282}e^5 \otimes e_9$	{123469, 12349, 1269, 129, 134567, 13457, 1567, 157, 236789, 23789, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{413}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{8}{171}\sqrt{118}e^{17}$	$(\frac{1}{3}, -\frac{61}{171}, \frac{64}{171}, -\frac{11}{171}, -\frac{6}{19}, \frac{7}{57}, -\frac{4}{171}, \frac{53}{171}, \frac{53}{171})$ $+ \frac{10}{171}\sqrt{177}e^1 \otimes e_2 + \frac{1}{171}\sqrt{177}e^3 \otimes e_5$	{13467, 1347, 13678, 1378, 145678, 14578, 1567, 157, 234679, 23479, 236789, 23789, 2456789, 245789, 25679, 2579}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{23}e^{12}, \frac{1}{6}\sqrt{23}e^{34}, \frac{1}{24}\sqrt{69}e^{17}$	$(-\frac{5}{24}, \frac{2}{3}, -\frac{7}{48}, -\frac{7}{48}, \frac{3}{16}, \frac{3}{16}, \frac{11}{24}, -\frac{7}{24}, \frac{1}{4})$ $+ \frac{1}{24}\sqrt{897}e^2 \otimes e_8$	{1234569, 123459, 12349, 12569, 1259, 129, 135678, 13578, 1378, 2345679, 234579, 23479, 25679, 2579, 279, 3568, 358, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{71}\sqrt{23}e^{12}, \frac{2}{71}\sqrt{69}e^{34}, \frac{8}{71}\sqrt{23}e^{17}$	$(\frac{16}{71}, -\frac{7}{71}, \frac{29}{71}, -\frac{17}{71}, -\frac{30}{71}, \frac{9}{71}, \frac{9}{71}, \frac{12}{71}, \frac{25}{71})$ $+ \frac{2}{71}\sqrt{897}e^1 \otimes e_5 + \frac{46}{71}e^3 \otimes e_4$	{123689, 12389, 124689, 12489, 13678, 1378, 14678, 1478, 2356789, 235789, 2456789, 245789, 3568, 358, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{94}e^{12}, \frac{1}{147}\sqrt{3102}e^{34}, \frac{1}{147}\sqrt{3102}e^{17}$	$(\frac{17}{147}, \frac{17}{147}, -\frac{5}{49}, -\frac{5}{49}, -\frac{10}{49}, \frac{6}{49}, \frac{34}{147}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{3}{49}\sqrt{94}e^1 \otimes e_8 + \frac{4}{147}\sqrt{282}e^2 \otimes e_5$	{123469, 12349, 1269, 129, 134567, 13457, 1567, 157, 236789, 23789, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{15}\sqrt{3}e^{12}, \frac{4}{15}\sqrt{3}e^{34}, \frac{4}{15}\sqrt{3}e^{17}$	$(\frac{1}{15}, \frac{2}{15}, \frac{14}{15}, -\frac{2}{3}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{4}{15}, \frac{4}{15})$ $+ \frac{8}{5}e^3 \otimes e_4$	{1235689, 123589, 12389, 1245689, 124589, 12489, 135678, 13578, 1378, 145678, 14578, 1478, 2356789, 235789, 23789, 2456789, 245789, 24789, 3568, 358, 38, 4568, 458, 48}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{339}\sqrt{1045}e^{12}, \frac{4}{339}\sqrt{1045}e^{34}, \frac{8}{339}\sqrt{209}e^{17}$	$(-\frac{65}{339}, \frac{110}{339}, \frac{55}{339}, -\frac{97}{339}, \frac{44}{113}, \frac{34}{339}, \frac{15}{113}, -\frac{14}{113}, -\frac{20}{339})$ $+ \frac{152}{339}e^3 \otimes e_4 + \frac{28}{339}\sqrt{38}e^5 \otimes e_9 + \frac{4}{339}\sqrt{2489}e^2 \otimes e_8$	{135678, 13578, 145678, 14578, 3568, 358, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{118}e^{12}, \frac{8}{177}\sqrt{66}e^{34}, \frac{8}{177}\sqrt{66}e^{17}$	$(\frac{7}{177}, \frac{40}{177}, -\frac{4}{59}, -\frac{4}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{47}{177}, -\frac{8}{59}, \frac{18}{59})$ $+ \frac{16}{177}\sqrt{39}e^1 \otimes e_5 + \frac{16}{177}\sqrt{39}e^2 \otimes e_8$	{123469, 12349, 1269, 129, 13678, 1378, 2345679, 234579, 25679, 2579, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{237}\sqrt{642}e^{12}, \frac{1}{237}\sqrt{16906}e^{34}, \frac{1}{79}\sqrt{214}e^{17}$	$(-\frac{10}{79}, \frac{32}{79}, \frac{41}{237}, -\frac{52}{237}, -\frac{22}{79}, \frac{9}{79}, \frac{22}{79}, -\frac{11}{237}, \frac{12}{79})$ $+ \frac{1}{237}\sqrt{19902}e^3 \otimes e_5 + \frac{1}{79}\sqrt{2782}e^2 \otimes e_8$	{123469, 12349, 12569, 1259, 13678, 1378, 145678, 14578, 234679, 23479, 25679, 2579, 368, 38, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{305}\sqrt{357}e^{12}, \frac{4}{305}\sqrt{357}e^{34}, \frac{2}{305}\sqrt{7378}e^{17}$	$(\frac{112}{305}, -\frac{126}{305}, \frac{24}{305}, \frac{24}{305}, \frac{31}{61}, -\frac{83}{305}, -\frac{14}{305}, \frac{48}{305}, \frac{98}{305})$ $+ \frac{238}{305}e^5 \otimes e_6 + \frac{2}{61}\sqrt{714}e^1 \otimes e_2$	{13457, 13467, 13578, 13678, 157, 167, 234579, 234679, 235789, 236789, 2579, 2679}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{327}\sqrt{330}e^{12}, \frac{4}{327}\sqrt{545}e^{34}, \frac{4}{327}\sqrt{545}e^{17}$	$(\frac{23}{327}, -\frac{10}{109}, \frac{56}{327}, -\frac{73}{327}, \frac{12}{109}, \frac{12}{109}, -\frac{7}{327}, -\frac{17}{327}, \frac{16}{327})$ $+ \frac{12}{109}\sqrt{10}e^1 \otimes e_8 + \frac{4}{327}\sqrt{645}e^3 \otimes e_9$	{12569, 1259, 129, 134567, 13457, 1347, 2456789, 245789, 24789, 3568, 358, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{357}e^{12}, \frac{1}{93}\sqrt{7378}e^{34}, \frac{2}{93}\sqrt{357}e^{17}$	$(\frac{2}{31}, \frac{4}{31}, -\frac{13}{93}, -\frac{13}{93}, \frac{1}{31}, \frac{6}{31}, \frac{6}{31}, -\frac{26}{93}, \frac{8}{31})$ $+ \frac{5}{93}\sqrt{714}e^5 \otimes e_8$	{1234569, 123459, 123689, 12389, 12569, 1259, 134567, 13457, 13678, 1378, 1567, 157, 2345679, 234579, 236789, 23789, 25679, 2579, 345, 3456, 368, 38, 5, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{71}\sqrt{23}e^{12}, \frac{8}{71}\sqrt{23}e^{34}, \frac{2}{71}\sqrt{69}e^{17}$	$(-\frac{10}{71}, \frac{32}{71}, -\frac{7}{71}, -\frac{7}{71}, \frac{32}{71}, -\frac{14}{71}, \frac{22}{71}, -\frac{14}{71}, \frac{12}{71})$ $+ \frac{2}{71}\sqrt{897}e^2 \otimes e_8 + \frac{46}{71}e^5 \otimes e_6$	{123459, 123469, 1259, 1269, 13578, 13678, 234579, 234679, 2579, 2679, 358, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:3	$0, 0, 0, 0, 0, 0, \frac{6}{581}\sqrt{214}e^{12}, \frac{8}{581}\sqrt{642}e^{34}, \frac{2}{581}\sqrt{16906}e^{17}$	$\left(\frac{64}{581}, -\frac{150}{581}, \frac{192}{581}, -\frac{6}{83}, \frac{23}{83}, -\frac{53}{581}, -\frac{86}{581}, \frac{150}{581}, -\frac{22}{581}\right)$ $+ \frac{214}{581}e^5 \otimes e_6 + \frac{2}{581}\sqrt{19902}e^1 \otimes e_2 + \frac{6}{581}\sqrt{2782}e^3 \otimes e_9$	{13457, 13467, 13578, 13678, 245789, 246789, 2579, 2679}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{23}e^{12}, \frac{4}{47}\sqrt{23}e^{34}, \frac{1}{47}\sqrt{69}e^{17}$	$\left(-\frac{5}{47}, \frac{16}{47}, \frac{8}{47}, -\frac{15}{47}, \frac{16}{47}, -\frac{7}{47}, \frac{11}{47}, -\frac{7}{47}, \frac{6}{47}\right)$ $+ \frac{1}{47}\sqrt{897}e^2 \otimes e_8 + \frac{23}{47}e^3 \otimes e_4 + \frac{23}{47}e^5 \otimes e_6$	{13578, 13678, 14578, 14678, 358, 368, 458, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{413}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{8}{171}\sqrt{118}e^{17}$	$\left(\frac{1}{3}, -\frac{61}{171}, -\frac{11}{171}, -\frac{11}{171}, \frac{32}{57}, \frac{7}{57}, -\frac{4}{171}, -\frac{22}{171}, \frac{53}{171}\right)$ $+ \frac{10}{171}\sqrt{177}e^1 \otimes e_2 + \frac{10}{171}\sqrt{177}e^5 \otimes e_8$	{134567, 13457, 13678, 1378, 1567, 157, 2345679, 234579, 236789, 23789, 25679, 2579}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{69}e^{12}, \frac{8}{71}\sqrt{23}e^{34}, \frac{8}{71}\sqrt{23}e^{17}$	$\left(-\frac{10}{71}, \frac{6}{71}, \frac{32}{71}, -\frac{7}{71}, \frac{32}{71}, -\frac{14}{71}, -\frac{4}{71}, \frac{25}{71}, -\frac{14}{71}\right)$ $+ \frac{2}{71}\sqrt{897}e^3 \otimes e_9 + \frac{46}{71}e^5 \otimes e_6$	{124589, 124689, 1259, 1269, 13457, 13467, 13578, 13678, 245789, 246789, 2579, 2679, 345, 346, 358, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{2069}\sqrt{312494}e^{12}, \frac{1}{2069}\sqrt{756490}e^{34}, \frac{4}{2069}\sqrt{28987}e^{17}$	$\left(-\frac{350}{2069}, \frac{442}{2069}, \frac{449}{2069}, -\frac{336}{2069}, \frac{820}{2069}, -\frac{265}{2069}, \frac{92}{2069}, \frac{113}{2069}, -\frac{258}{2069}\right)$ $+ \frac{1}{2069}\sqrt{1109990}e^3 \otimes e_9 + \frac{3}{2069}\sqrt{97566}e^5 \otimes e_8 + \frac{4}{2069}\sqrt{41006}e^2 \otimes e_6$	{12489, 1259, 134567, 13678, 24789, 2579, 3456, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{15}\sqrt{3}e^{12}, \frac{4}{15}\sqrt{3}e^{34}, \frac{4}{15}\sqrt{3}e^{17}$	$\left(\frac{1}{15}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, 1, -\frac{3}{5}, \frac{1}{5}, \frac{4}{15}, \frac{4}{15}\right)$ $+ \frac{5}{5}e^5 \otimes e_6$	{123459, 123469, 123589, 123689, 1259, 1269, 13457, 13467, 13578, 13678, 157, 167, 234579, 234679, 235789, 236789, 2579, 2679, 345, 346, 358, 368, 5, 6}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{106}\sqrt{357}e^{12}, \frac{1}{106}\sqrt{357}e^{34}, \frac{1}{212}\sqrt{7378}e^{17}$	$\left(\frac{14}{53}, -\frac{63}{212}, \frac{143}{424}, -\frac{95}{209}, \frac{155}{424}, -\frac{83}{424}, -\frac{7}{212}, \frac{6}{53}, \frac{49}{212}\right)$ $+ \frac{119}{212}e^3 \otimes e_4 + \frac{119}{212}e^5 \otimes e_6 + \frac{5}{212}\sqrt{714}e^1 \otimes e_2$	{13578, 13678, 14578, 14678, 235789, 236789, 245789, 246789}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{118}\sqrt{231}e^{12}, \frac{1}{118}\sqrt{1914}e^{34}, \frac{1}{118}\sqrt{1914}e^{17}$	$\left(\frac{9}{118}, -\frac{12}{59}, \frac{27}{118}, -\frac{37}{236}, \frac{83}{236}, \frac{21}{236}, -\frac{15}{118}, \frac{17}{236}, -\frac{3}{59}\right)$ $+ \frac{1}{118}\sqrt{2046}e^1 \otimes e_2 + \frac{1}{118}\sqrt{2046}e^5 \otimes e_8 + \frac{1}{118}\sqrt{3003}e^3 \otimes e_9$	{134567, 13457, 13678, 1378, 246789, 24789, 25679, 2579}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{357}e^{12}, \frac{1}{93}\sqrt{7378}e^{34}, \frac{2}{93}\sqrt{357}e^{17}$	$\left(\frac{2}{31}, \frac{4}{31}, \frac{2}{3}, -\frac{13}{93}, -\frac{19}{31}, \frac{6}{31}, \frac{6}{31}, \frac{49}{93}, \frac{8}{31}\right)$ $+ \frac{5}{93}\sqrt{714}e^3 \otimes e_5$	{123469, 12349, 123689, 12389, 1245689, 124589, 12569, 1259, 13467, 1347, 13678, 1378, 145678, 14578, 1567, 157, 234679, 23479, 236789, 23789, 2456789, 245789, 25679, 2579, 34, 346, 368, 38, 4568, 458, 5, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{7378}e^{12}, \frac{4}{305}\sqrt{357}e^{34}, \frac{4}{305}\sqrt{357}e^{17}$	$\left(-\frac{38}{305}, \frac{124}{305}, \frac{143}{305}, -\frac{19}{61}, -\frac{114}{305}, \frac{36}{305}, \frac{86}{305}, \frac{48}{305}, \frac{48}{305}\right)$ $+ \frac{238}{305}e^3 \otimes e_4 + \frac{2}{61}\sqrt{714}e^2 \otimes e_5$	{123689, 12389, 124689, 12489, 135678, 13578, 145678, 14578, 236789, 23789, 246789, 24789, 3568, 358, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{93}\sqrt{7378}e^{12}, \frac{2}{93}\sqrt{357}e^{34}, \frac{2}{93}\sqrt{357}e^{17}$	$\left(-\frac{19}{93}, \frac{2}{3}, \frac{4}{31}, \frac{4}{31}, -\frac{19}{31}, \frac{6}{31}, \frac{43}{93}, \frac{8}{31}, \frac{8}{31}\right)$ $+ \frac{5}{93}\sqrt{714}e^2 \otimes e_5$	{123469, 12349, 123689, 12389, 1269, 129, 134567, 13457, 135678, 13578, 1567, 157, 234679, 23479, 236789, 23789, 2679, 279, 345, 346, 3568, 358, 5, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{71}\sqrt{23}e^{12}, \frac{8}{71}\sqrt{23}e^{34}, \frac{2}{71}\sqrt{69}e^{17}$	$\left(-\frac{10}{71}, \frac{32}{71}, \frac{16}{71}, -\frac{30}{71}, \frac{9}{71}, \frac{9}{71}, \frac{22}{71}, -\frac{14}{71}, \frac{12}{71}\right)$ $+ \frac{2}{71}\sqrt{897}e^2 \otimes e_8 + \frac{46}{71}e^3 \otimes e_4$	{135678, 13578, 1378, 145678, 14578, 1478, 3568, 358, 38, 4568, 458, 48}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{581}\sqrt{642}e^{12}, \frac{6}{581}\sqrt{214}e^{34}, \frac{2}{581}\sqrt{16906}e^{17}$	$\left(\frac{34}{581}, -\frac{6}{83}, \frac{143}{581}, -\frac{71}{581}, \frac{240}{581}, -\frac{180}{581}, -\frac{8}{581}, \frac{72}{581}, \frac{26}{581}\right)$ $+ \frac{214}{581}e^3 \otimes e_4 + \frac{2}{581}\sqrt{19902}e^5 \otimes e_9 + \frac{6}{581}\sqrt{2782}e^1 \otimes e_6$	{12389, 12489, 13578, 14578, 236789, 246789, 3568, 4568}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{576}\sqrt{7922}e^{12}, \frac{1}{288}\sqrt{16543}e^{34}, \frac{1}{576}\sqrt{31222}e^{17}$	$\left(\frac{13}{64}, -\frac{29}{144}, \frac{193}{1152}, -\frac{91}{576}, \frac{53}{128}, -\frac{91}{384}, \frac{1}{576}, \frac{11}{1152}, \frac{59}{288}\right)$ $+ \frac{5}{288}\sqrt{699}e^1 \otimes e_2 + \frac{5}{576}\sqrt{3495}e^3 \otimes e_6 + \frac{5}{576}\sqrt{3495}e^5 \otimes e_8$	{13457, 1378, 14678, 1567, 234579, 23789, 246789, 25679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{27}\sqrt{3}e^{12}, \frac{4}{27}\sqrt{3}e^{34}, \frac{4}{27}\sqrt{3}e^{17}$	$(\frac{1}{27}, \frac{2}{27}, \frac{14}{27}, -\frac{10}{27}, \frac{5}{9}, -\frac{1}{3}, \frac{1}{9}, \frac{4}{27}, \frac{4}{27})$ $+\frac{8}{9}e^3 \otimes e_4 + \frac{8}{9}e^5 \otimes e_6$	{123589, 123689, 124589, 124689, 13578, 13678, 14578, 14678, 235789, 236789, 245789, 246789, 358, 368, 458, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{118}e^{12}, \frac{4}{115}\sqrt{118}e^{34}, \frac{1}{115}\sqrt{413}e^{17}$	$(-\frac{9}{115}, \frac{32}{115}, \frac{24}{115}, -\frac{7}{23}, \frac{48}{115}, -\frac{27}{115}, \frac{1}{5}, -\frac{11}{115}, \frac{14}{115})$ $+\frac{1}{23}\sqrt{177}e^2 \otimes e_6 + \frac{1}{23}\sqrt{177}e^5 \otimes e_8 + \frac{59}{115}e^3 \otimes e_4$	{12389, 12489, 13678, 14678, 23789, 24789, 368, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{84}\sqrt{282}e^{12}, \frac{1}{42}\sqrt{658}e^{34}, \frac{1}{84}\sqrt{282}e^{17}$	$(\frac{1}{28}, \frac{1}{14}, \frac{37}{168}, -\frac{19}{84}, \frac{31}{56}, -\frac{19}{56}, \frac{3}{28}, -\frac{1}{168}, \frac{1}{7})$ $+\frac{5}{84}\sqrt{141}e^3 \otimes e_6 + \frac{5}{84}\sqrt{141}e^5 \otimes e_8$	{123459, 12389, 124689, 12569, 13457, 1378, 14678, 1567, 234579, 23789, 246789, 25679, 345, 38, 468, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{237}\sqrt{16906}e^{12}, \frac{1}{79}\sqrt{214}e^{34}, \frac{4}{237}\sqrt{642}e^{17}$	$(\frac{17}{237}, \frac{41}{237}, \frac{6}{79}, \frac{6}{79}, -\frac{30}{79}, -\frac{22}{79}, \frac{58}{237}, \frac{12}{79}, \frac{25}{79})$ $+\frac{1}{237}\sqrt{19902}e^2 \otimes e_6 + \frac{1}{79}\sqrt{2782}e^1 \otimes e_5$	{12349, 12389, 129, 13467, 13678, 167, 234579, 235789, 2579, 3456, 3568, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{147}\sqrt{3102}e^{12}, \frac{1}{21}\sqrt{94}e^{34}, \frac{1}{147}\sqrt{3102}e^{17}$	$(\frac{11}{49}, -\frac{5}{49}, \frac{17}{147}, -\frac{31}{147}, -\frac{10}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{2}{21}, \frac{17}{49})$ $+\frac{3}{49}\sqrt{94}e^1 \otimes e_8 + \frac{4}{147}\sqrt{282}e^3 \otimes e_5$	{123469, 12349, 12569, 1259, 13467, 1347, 1567, 157, 236789, 23789, 2456789, 245789, 368, 38, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{305}\sqrt{357}e^{12}, \frac{4}{305}\sqrt{357}e^{34}, \frac{2}{305}\sqrt{7378}e^{17}$	$(-\frac{38}{305}, \frac{24}{305}, \frac{143}{305}, -\frac{19}{61}, \frac{186}{305}, \frac{36}{305}, -\frac{14}{305}, \frac{48}{305}, -\frac{52}{305})$ $+\frac{238}{305}e^3 \otimes e_4 + \frac{2}{61}\sqrt{714}e^5 \otimes e_9$	{123689, 12389, 124689, 12489, 135678, 13578, 145678, 14578, 236789, 23789, 246789, 24789, 3568, 358, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{462}e^{12}, \frac{2}{87}\sqrt{462}e^{34}, \frac{2}{87}\sqrt{462}e^{17}$	$(\frac{22}{87}, -\frac{10}{87}, \frac{11}{87}, -\frac{31}{87}, \frac{4}{29}, \frac{4}{29}, \frac{4}{29}, -\frac{20}{87}, \frac{34}{87})$ $+\frac{14}{29}e^3 \otimes e_4 + \frac{6}{29}\sqrt{14}e^1 \otimes e_8$	{2356789, 235789, 23789, 2456789, 245789, 24789, 3568, 358, 38, 4568, 458, 48}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{263}\sqrt{1045}e^{12}, \frac{8}{263}\sqrt{209}e^{34}, \frac{4}{263}\sqrt{1045}e^{17}$	$(\frac{55}{263}, -\frac{21}{263}, \frac{88}{263}, -\frac{10}{263}, -\frac{97}{263}, -\frac{64}{263}, \frac{34}{263}, \frac{78}{263}, \frac{89}{263})$ $+\frac{28}{263}\sqrt{38}e^3 \otimes e_6 + \frac{4}{263}\sqrt{2489}e^1 \otimes e_5$	{12349, 12389, 124689, 1269, 1347, 1378, 14678, 167, 234579, 235789, 2456789, 25679, 345, 358, 4568, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{171}\sqrt{118}e^{12}, \frac{2}{171}\sqrt{413}e^{34}, \frac{8}{171}\sqrt{118}e^{17}$	$(-\frac{43}{171}, \frac{64}{171}, \frac{14}{171}, \frac{14}{171}, \frac{32}{57}, -\frac{6}{19}, \frac{7}{57}, \frac{28}{171}, -\frac{22}{171})$ $+\frac{10}{171}\sqrt{177}e^2 \otimes e_6 + \frac{10}{171}\sqrt{177}e^5 \otimes e_9$	{12349, 12389, 129, 134567, 135678, 1567, 23479, 23789, 279, 3456, 3568, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{214}e^{12}, \frac{4}{237}\sqrt{642}e^{34}, \frac{1}{237}\sqrt{16906}e^{17}$	$(\frac{32}{237}, -\frac{25}{79}, \frac{32}{79}, -\frac{7}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{43}{237}, \frac{25}{79}, -\frac{11}{237})$ $+\frac{1}{237}\sqrt{19902}e^1 \otimes e_2 + \frac{1}{79}\sqrt{2782}e^3 \otimes e_9$	{134567, 13457, 1347, 135678, 13578, 1378, 2456789, 245789, 24789, 25679, 2579, 279}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{215}\sqrt{282}e^{12}, \frac{2}{215}\sqrt{282}e^{34}, \frac{4}{215}\sqrt{658}e^{17}$	$(\frac{31}{215}, -\frac{63}{215}, \frac{59}{215}, -\frac{7}{43}, \frac{93}{215}, \frac{18}{215}, -\frac{32}{215}, \frac{24}{215}, -\frac{1}{215})$ $+\frac{2}{43}\sqrt{141}e^1 \otimes e_2 + \frac{2}{43}\sqrt{141}e^5 \otimes e_9 + \frac{94}{215}e^3 \otimes e_4$	{135678, 13578, 145678, 14578, 236789, 23789, 246789, 24789}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{462}e^{12}, \frac{1}{33}\sqrt{462}e^{34}, \frac{1}{33}\sqrt{462}e^{17}$	$(\frac{1}{3}, -\frac{5}{33}, -\frac{5}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{10}{33}, \frac{17}{33})$ $+\frac{3}{11}\sqrt{14}e^1 \otimes e_8$	{1234569, 123459, 12349, 12569, 1259, 129, 134567, 13457, 1347, 1567, 157, 17, 2356789, 235789, 23789, 3568, 358, 38}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{576}\sqrt{7922}e^{12}, \frac{1}{576}\sqrt{31222}e^{34}, \frac{1}{288}\sqrt{16543}e^{17}$	$(\frac{53}{384}, -\frac{307}{1152}, -\frac{1}{36}, -\frac{1}{36}, \frac{67}{192}, \frac{53}{128}, -\frac{37}{288}, -\frac{1}{18}, \frac{11}{1152})$ $+\frac{5}{288}\sqrt{699}e^5 \otimes e_8 + \frac{5}{576}\sqrt{3495}e^1 \otimes e_2 + \frac{5}{576}\sqrt{3495}e^6 \otimes e_9$	{134567, 13678, 1567, 234579, 23789, 2579}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{23}e^{12}, \frac{1}{24}\sqrt{69}e^{34}, \frac{1}{6}\sqrt{23}e^{17}$	$(\frac{1}{3}, -\frac{7}{48}, \frac{1}{8}, \frac{1}{8}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{1}{4}, \frac{25}{48})$ $+\frac{1}{24}\sqrt{897}e^1 \otimes e_5$	{123469, 12349, 123689, 12389, 1269, 129, 13467, 1347, 13678, 1378, 167, 17, 2345679, 234579, 2356789, 235789, 25679, 2579, 345, 3456, 3568, 358, 5, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{171}\sqrt{118}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{2}{171}\sqrt{413}e^{17}$	$(-\frac{2}{19}, \frac{64}{171}, \frac{64}{171}, -\frac{11}{171}, -\frac{6}{19}, -\frac{6}{19}, \frac{46}{171}, \frac{53}{171}, \frac{28}{171})$ $+\frac{10}{171}\sqrt{177}e^2 \otimes e_5 + \frac{10}{171}\sqrt{177}e^3 \otimes e_6$	{12349, 12389, 124689, 1269, 13457, 13578, 145678, 1567, 23479, 23789, 246789, 2679, 345, 358, 4568, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{413}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{8}{171}\sqrt{118}e^{17}$	$(-\frac{2}{19}, \frac{14}{171}, \frac{64}{171}, -\frac{11}{171}, \frac{32}{57}, -\frac{6}{19}, -\frac{4}{171}, \frac{53}{171}, -\frac{22}{171})$ $+\frac{10}{171}\sqrt{177}e^3 \otimes e_6 + \frac{10}{171}\sqrt{177}e^5 \otimes e_9$	{12349, 12389, 124689, 1269, 13457, 13578, 145678, 1567, 23479, 23789, 246789, 2679, 345, 358, 4568, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{171}\sqrt{118}e^{12}, \frac{8}{171}\sqrt{118}e^{34}, \frac{2}{171}\sqrt{413}e^{17}$	$(-\frac{2}{19}, \frac{64}{171}, -\frac{11}{171}, -\frac{11}{171}, \frac{32}{57}, -\frac{6}{19}, \frac{46}{171}, -\frac{22}{171}, \frac{28}{171})$ $+\frac{10}{171}\sqrt{177}e^2 \otimes e_6 + \frac{10}{171}\sqrt{177}e^5 \otimes e_8$	{123459, 12389, 1259, 134567, 13678, 1567, 234579, 23789, 2579, 3456, 368, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{263}\sqrt{1045}e^{12}, \frac{4}{263}\sqrt{1045}e^{34}, \frac{8}{263}\sqrt{209}e^{17}$	$(-\frac{65}{263}, \frac{110}{263}, -\frac{21}{263}, -\frac{21}{263}, \frac{132}{263}, \frac{34}{263}, \frac{45}{263}, -\frac{42}{263}, -\frac{20}{263})$ $+\frac{28}{263}\sqrt{38}e^5 \otimes e_9 + \frac{4}{263}\sqrt{2489}e^2 \otimes e_8$	{123469, 12349, 1269, 129, 135678, 13578, 234679, 23479, 2679, 279, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{263}\sqrt{209}e^{12}, \frac{4}{263}\sqrt{1045}e^{34}, \frac{4}{263}\sqrt{1045}e^{17}$	$(-\frac{65}{263}, \frac{88}{263}, \frac{110}{263}, -\frac{21}{263}, -\frac{64}{263}, \frac{34}{263}, \frac{23}{263}, \frac{89}{263}, -\frac{42}{263})$ $+\frac{28}{263}\sqrt{38}e^2 \otimes e_5 + \frac{4}{263}\sqrt{2489}e^3 \otimes e_9$	{124689, 12489, 1269, 129, 134567, 13457, 135678, 13578, 246789, 24789, 2679, 279, 345, 3456, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{462}e^{12}, \frac{2}{87}\sqrt{462}e^{34}, \frac{2}{87}\sqrt{462}e^{17}$	$(\frac{22}{87}, -\frac{10}{87}, -\frac{10}{87}, -\frac{10}{87}, \frac{11}{29}, -\frac{3}{29}, \frac{4}{29}, -\frac{20}{87}, \frac{34}{87})$ $+\frac{14}{29}e^5 \otimes e_6 + \frac{6}{29}\sqrt{14}e^1 \otimes e_8$	{123459, 123469, 1259, 1269, 13457, 13467, 157, 167, 235789, 236789, 358, 368}
931:3	$0, 0, 0, 0, 0, 0, \frac{2}{341}\sqrt{3102}e^{12}, \frac{2}{341}\sqrt{3102}e^{34}, \frac{14}{341}\sqrt{94}e^{17}$	$(\frac{34}{341}, -\frac{30}{341}, \frac{17}{341}, -\frac{7}{31}, \frac{12}{31}, \frac{36}{341}, \frac{4}{341}, -\frac{60}{341}, \frac{38}{341})$ $+\frac{18}{341}\sqrt{94}e^1 \otimes e_8 + \frac{8}{341}\sqrt{282}e^5 \otimes e_9 + \frac{94}{341}e^3 \otimes e_4$	{236789, 23789, 246789, 24789, 3568, 358, 4568, 458}
931:3	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{66}e^{12}, \frac{8}{177}\sqrt{66}e^{34}, \frac{8}{177}\sqrt{118}e^{17}$	$(\frac{7}{177}, -\frac{4}{59}, \frac{22}{59}, -\frac{4}{59}, -\frac{19}{59}, \frac{7}{59}, -\frac{5}{177}, \frac{18}{59}, \frac{2}{177})$ $+\frac{16}{177}\sqrt{39}e^1 \otimes e_5 + \frac{16}{177}\sqrt{39}e^3 \otimes e_9$	{124689, 12489, 1269, 129, 13467, 1347, 13678, 1378, 2456789, 245789, 25679, 2579, 345, 3456, 3568, 358}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{339}\sqrt{1045}e^{12}, \frac{8}{339}\sqrt{209}e^{34}, \frac{4}{339}\sqrt{1045}e^{17}$	$(\frac{55}{339}, -\frac{7}{113}, \frac{22}{113}, -\frac{86}{339}, \frac{44}{113}, -\frac{97}{339}, \frac{34}{339}, -\frac{20}{339}, \frac{89}{339})$ $+\frac{152}{339}e^3 \otimes e_4 + \frac{28}{339}\sqrt{38}e^5 \otimes e_8 + \frac{4}{339}\sqrt{2489}e^1 \otimes e_6$	{12389, 12489, 1378, 1478, 236789, 246789, 368, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{38}e^{12}, \frac{2}{165}\sqrt{1045}e^{34}, \frac{4}{165}\sqrt{114}e^{17}$	$(-\frac{1}{11}, \frac{3}{55}, \frac{1}{33}, \frac{17}{165}, \frac{4}{11}, -\frac{1}{5}, -\frac{2}{55}, \frac{2}{15}, -\frac{7}{55})$ $+\frac{1}{165}\sqrt{3534}e^3 \otimes e_6 + \frac{1}{165}\sqrt{3534}e^5 \otimes e_8 + \frac{1}{55}\sqrt{494}e^4 \otimes e_9$	{12389, 12569, 13457, 14678, 23789, 25679, 345, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{576}\sqrt{7922}e^{12}, \frac{1}{576}\sqrt{31222}e^{34}, \frac{1}{288}\sqrt{16543}e^{17}$	$(\frac{53}{384}, -\frac{307}{1152}, \frac{67}{288}, -\frac{1}{36}, \frac{53}{128}, -\frac{11}{64}, -\frac{37}{288}, \frac{59}{1152}, \frac{11}{1152})$ $+\frac{5}{288}\sqrt{699}e^3 \otimes e_6 + \frac{5}{576}\sqrt{3495}e^1 \otimes e_2 + \frac{5}{576}\sqrt{3495}e^5 \otimes e_9$	{13457, 13578, 145678, 1567, 23479, 23789, 246789, 2679}
931:3	$0, 0, 0, 0, 0, 0, \frac{4}{263}\sqrt{1045}e^{12}, \frac{8}{263}\sqrt{209}e^{34}, \frac{4}{263}\sqrt{1045}e^{17}$	$(\frac{55}{263}, -\frac{21}{263}, -\frac{10}{263}, -\frac{10}{263}, \frac{132}{263}, -\frac{97}{263}, \frac{34}{263}, -\frac{20}{263}, \frac{89}{263})$ $+\frac{28}{263}\sqrt{38}e^5 \otimes e_8 + \frac{4}{263}\sqrt{2489}e^1 \otimes e_6$	{123459, 12389, 1259, 13457, 1378, 157, 2345679, 236789, 25679, 3456, 368, 56}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{462}e^{12}, \frac{1}{54}\sqrt{462}e^{34}, \frac{1}{54}\sqrt{462}e^{17}$	$(\frac{11}{54}, -\frac{5}{54}, \frac{11}{108}, -\frac{31}{108}, \frac{11}{36}, -\frac{1}{12}, \frac{1}{9}, -\frac{5}{27}, \frac{17}{54})$ $+\frac{1}{6}\sqrt{14}e^1 \otimes e_8 + \frac{7}{18}e^3 \otimes e_4 + \frac{7}{18}e^5 \otimes e_6$	{235789, 236789, 245789, 246789, 358, 368, 458, 468}
931:3	$0, 0, 0, 0, 0, 0, \frac{1}{84}\sqrt{282}e^{12}, \frac{1}{84}\sqrt{282}e^{34}, \frac{1}{42}\sqrt{658}e^{17}$	$(\frac{31}{168}, -\frac{3}{8}, \frac{1}{14}, \frac{1}{14}, \frac{31}{56}, \frac{3}{28}, -\frac{4}{21}, \frac{1}{7}, -\frac{1}{168})$ $+\frac{5}{84}\sqrt{141}e^1 \otimes e_2 + \frac{5}{84}\sqrt{141}e^5 \otimes e_9$	{134567, 13457, 135678, 13578, 1567, 157, 234679, 23479, 236789, 23789, 2679, 279}
931:4	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1005}e^{12}, \frac{1}{118}\sqrt{2010}e^{13}, \frac{1}{59}\sqrt{1005}e^{17} + \frac{1}{118}\sqrt{2747}e^{23}$	$(\frac{19}{236}, \frac{2}{59}, \frac{19}{118}, \frac{47}{118}, -\frac{115}{236}, -\frac{10}{59}, \frac{27}{236}, \frac{57}{236}, \frac{23}{118})$ $+\frac{1}{118}\sqrt{9514}e^1 \otimes e_5 + \frac{1}{118}e^4 \otimes e_6$	{12349, 12369, 1347, 1367, 2345789, 2356789, 3458, 3568}
931:4	$0, 0, 0, 0, 0, 0, \frac{6}{305}\sqrt{29}e^{12}, \frac{2}{305}\sqrt{87}e^{13}, \frac{6}{305}\sqrt{29}e^{17} + \frac{1}{305}\sqrt{16878}e^{23}$	$(\frac{8}{305}, \frac{14}{305}, \frac{16}{305}, -\frac{73}{305}, \frac{117}{305}, -\frac{71}{305}, \frac{22}{305}, \frac{24}{305}, \frac{6}{61})$ $+\frac{1}{305}\sqrt{16530}e^2 \otimes e_4 + \frac{1}{305}\sqrt{16530}e^5 \otimes e_9 + \frac{3}{305}\sqrt{1798}e^3 \otimes e_6$	{12689, 145678, 2679, 456}
931:4	$0, 0, 0, 0, 0, 0, \frac{1}{179}\sqrt{2730}e^{12}, \frac{2}{179}\sqrt{1245}e^{13}, \frac{30}{179}e^{17} + \frac{6}{179}\sqrt{130}e^{23}$	$(\frac{1}{179}, -\frac{4}{179}, \frac{2}{179}, \frac{63}{179}, \frac{58}{179}, -\frac{58}{179}, -\frac{3}{179}, \frac{3}{179}, -\frac{2}{179})$ $+\frac{1}{179}\sqrt{6090}e^4 \otimes e_8 + \frac{1}{179}\sqrt{8430}e^3 \otimes e_6 + \frac{3}{179}\sqrt{610}e^5 \otimes e_9$	{126789, 1568, 2469, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{235}\sqrt{134e^{12}}, \frac{2}{235}\sqrt{2010e^{13}},$ $\frac{1}{235}\sqrt{4623e^{17}} + \frac{2}{235}\sqrt{2010e^{23}}$	$(-\frac{1}{47}, \frac{52}{235}, -\frac{2}{47}, -\frac{77}{235}, \frac{10}{47}, -\frac{17}{235}, \frac{1}{5}, -\frac{3}{47}, \frac{42}{235})$ $+ \frac{1}{235}\sqrt{12261e^2} \otimes e_8 + \frac{1}{235}\sqrt{12529e^3} \otimes e_4 + \frac{67}{235}e^5 \otimes e_6$	{1458, 1468, 2459, 2469}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{38766e^{12}}, \frac{2}{499}\sqrt{18291e^{13}},$ $\frac{4}{499}\sqrt{273e^{17}} + \frac{28}{499}\sqrt{195e^{23}}$	$(\frac{6}{499}, \frac{217}{499}, \frac{12}{499}, -\frac{329}{499}, \frac{85}{499}, \frac{85}{499}, \frac{223}{499}, \frac{18}{499}, \frac{229}{499})$ $+ \frac{6}{499}\sqrt{12558e^2} \otimes e_4$	{12569, 1259, 129, 14567, 1457, 147, 256789, 25789, 2789, 4568, 458, 48}
931:4	$0, 0, 0, 0, 0, 0, \frac{4}{59}\sqrt{26e^{12}}, \frac{8}{59}e^{13}, \frac{4}{59}\sqrt{26e^{17}} + \frac{4}{59}\sqrt{10e^{23}}$	$(\frac{1}{59}, \frac{4}{59}, \frac{2}{59}, -\frac{15}{59}, \frac{22}{59}, -\frac{12}{59}, \frac{5}{59}, \frac{3}{59}, \frac{6}{59})$ $+ \frac{4}{59}\sqrt{34e^2} \otimes e_6 + \frac{4}{59}\sqrt{34e^5} \otimes e_9 + \frac{8}{59}\sqrt{10e^1} \otimes e_4$	{129, 1567, 24789, 4568}
931:4	$0, 0, 0, 0, 0, 0, \frac{4}{891}\sqrt{555e^{12}}, \frac{20}{891}\sqrt{111e^{13}},$ $\frac{8}{891}\sqrt{1110e^{17}} + \frac{4}{891}\sqrt{1110e^{23}}$	$(-\frac{31}{891}, \frac{43}{297}, -\frac{62}{891}, -\frac{23}{81}, \frac{289}{891}, \frac{26}{297}, \frac{98}{891}, -\frac{31}{297}, \frac{67}{891})$ $+ \frac{2}{891}\sqrt{23421e^5} \otimes e_9 + \frac{2}{891}\sqrt{30081e^2} \otimes e_8 + \frac{2}{891}\sqrt{36741e^1} \otimes e_4$	{15678, 1578, 24679, 2479}
931:4	$0, 0, 0, 0, 0, 0, \frac{6}{3421}\sqrt{18382e^{12}}, \frac{2}{3421}\sqrt{91910e^{13}},$ $\frac{8}{3421}\sqrt{9191e^{17}} + \frac{14}{3421}\sqrt{10302e^{23}}$	$(-\frac{272}{3421}, \frac{598}{3421}, -\frac{544}{3421}, \frac{1007}{3421}, \frac{1468}{3421}, -\frac{37}{311}, \frac{326}{3421}, -\frac{816}{3421}, \frac{54}{3421})$ $+ \frac{1414}{3421}e^4 \otimes e_6 + \frac{14}{3421}\sqrt{17978e^2} \otimes e_8 + \frac{8}{3421}\sqrt{51611e^5} \otimes e_9$	{14578, 15678, 2479, 2679}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{66e^{12}}, \frac{2}{41}\sqrt{33e^{13}}, \frac{2}{41}\sqrt{66e^{17}} + \frac{2}{41}\sqrt{33e^{23}}$	$(\frac{3}{41}, \frac{5}{41}, \frac{6}{41}, 1, -\frac{25}{41}, \frac{8}{41}, \frac{8}{41}, \frac{9}{41}, \frac{11}{41})$ $+ \frac{66}{41}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 14678, 1478, 15678, 1578, 24679, 2479, 25679, 2579, 4, 46, 5, 56}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1030e^{12}}, \frac{2}{161}\sqrt{6386e^{13}},$ $\frac{2}{161}\sqrt{1030e^{17}} + \frac{2}{161}\sqrt{515e^{23}}$	$(-\frac{15}{161}, \frac{6}{23}, -\frac{30}{161}, 1, \frac{27}{161}, \frac{27}{161}, \frac{27}{161}, -\frac{45}{161}, \frac{12}{161})$ $+ \frac{2}{161}\sqrt{13802e^4} \otimes e_8$	{12345679, 1234579, 123479, 134, 1345, 13456, 235689, 23589, 2389, 35678, 3578, 378}
931:4	$0, 0, 0, 0, 0, 0, \frac{6}{229}\sqrt{238e^{12}}, \frac{2}{229}\sqrt{3162e^{13}}, \frac{6}{229}\sqrt{238e^{17}} + \frac{2}{229}\sqrt{2091e^{23}}$	$(\frac{1}{229}, \frac{22}{229}, \frac{2}{229}, \frac{105}{229}, -\frac{101}{229}, \frac{23}{229}, \frac{23}{229}, \frac{3}{229}, \frac{24}{229})$ $+ \frac{2}{229}\sqrt{4182e^4} \otimes e_8 + \frac{4}{229}\sqrt{1581e^1} \otimes e_5$	{123469, 12349, 13467, 1347, 2356789, 235789, 3568, 358}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{3229}\sqrt{374142e^{12}}, \frac{4}{3229}\sqrt{69231e^{13}},$ $\frac{12}{3229}\sqrt{5401e^{17}} + \frac{8}{3229}\sqrt{3437e^{23}}$	$(-\frac{82}{3229}, \frac{736}{3229}, \frac{164}{3229}, \frac{1064}{3229}, \frac{779}{3229}, \frac{203}{3229}, \frac{654}{3229}, \frac{246}{3229}, \frac{572}{3229})$ $+ \frac{52}{3229}\sqrt{982e^1} \otimes e_4 + \frac{6}{3229}\sqrt{59902e^2} \otimes e_8 + \frac{982}{3229}e^5 \otimes e_6$	{12359, 12369, 3458, 3468}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{383}\sqrt{5934e^{12}}, \frac{2}{383}\sqrt{7482e^{13}},$ $\frac{12}{383}\sqrt{86e^{17}} + \frac{2}{383}\sqrt{7482e^{23}}$	$(-\frac{36}{383}, \frac{150}{383}, -\frac{72}{383}, \frac{173}{383}, -\frac{85}{383}, \frac{44}{383}, \frac{114}{383}, -\frac{108}{383}, \frac{78}{383})$ $+ \frac{258}{383}e^4 \otimes e_5 + \frac{6}{383}\sqrt{3010e^2} \otimes e_8$	{1234, 12346, 1235, 12356, 34689, 3489, 35689, 3589}
931:4	$0, 0, 0, 0, 0, 0, \frac{1}{1369}\sqrt{374142e^{12}}, \frac{2}{1369}\sqrt{69231e^{13}},$ $\frac{6}{1369}\sqrt{5401e^{17}} + \frac{4}{1369}\sqrt{3437e^{23}}$	$(-\frac{41}{1369}, \frac{368}{1369}, -\frac{82}{1369}, -\frac{532}{1369}, \frac{144}{1369}, \frac{144}{1369}, \frac{327}{1369}, -\frac{123}{1369}, \frac{286}{1369})$ $+ \frac{26}{1369}\sqrt{982e^1} \otimes e_4 + \frac{3}{1369}\sqrt{59902e^2} \otimes e_8$	{123569, 12359, 1239, 34568, 3458, 348}
931:4	$0, 0, 0, 0, 0, 0, \frac{1}{193}\sqrt{38766e^{12}}, \frac{1}{193}\sqrt{18291e^{13}},$ $\frac{1}{193}\sqrt{273e^{17}} + \frac{7}{193}\sqrt{195e^{23}}$	$(\frac{3}{386}, \frac{217}{772}, \frac{3}{193}, \frac{179}{386}, -\frac{329}{772}, \frac{47}{193}, \frac{223}{772}, \frac{9}{386}, \frac{229}{772})$ $+ \frac{273}{386}e^4 \otimes e_6 + \frac{3}{386}\sqrt{12558e^2} \otimes e_5$	{1249, 1269, 1457, 1567, 24789, 26789, 458, 568}
931:4	$0, 0, 0, 0, 0, 0, \frac{3}{1357}\sqrt{18382e^{12}}, \frac{1}{1357}\sqrt{91910e^{13}},$ $\frac{4}{1357}\sqrt{9191e^{17}} + \frac{7}{1357}\sqrt{10302e^{23}}$	$(-\frac{136}{1357}, \frac{13}{59}, -\frac{272}{1357}, \frac{734}{1357}, \frac{150}{1357}, \frac{150}{1357}, \frac{163}{1357}, -\frac{408}{1357}, \frac{27}{1357})$ $+ \frac{4}{1357}\sqrt{51611e^4} \otimes e_9 + \frac{7}{1357}\sqrt{17978e^2} \otimes e_8$	{145678, 14578, 1478, 25679, 2579, 279}
931:4	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{574e^{12}}, \frac{6}{121}\sqrt{123e^{13}}, \frac{2}{121}\sqrt{574e^{17}} + \frac{6}{121}\sqrt{123e^{23}}$	$(\frac{13}{121}, -\frac{1}{121}, \frac{26}{121}, \frac{53}{121}, -\frac{56}{121}, -\frac{29}{121}, \frac{12}{121}, \frac{39}{121}, \frac{25}{121})$ $+ \frac{1}{121}\sqrt{697e^3} \otimes e_5 + \frac{82}{121}e^4 \otimes e_6$	{1245789, 1256789, 1458, 1568, 2459, 2569, 457, 567}
931:4	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{1005e^{12}}, \frac{2}{169}\sqrt{2010e^{13}},$ $\frac{4}{169}\sqrt{1005e^{17}} + \frac{2}{169}\sqrt{2747e^{23}}$	$(\frac{19}{169}, \frac{8}{169}, \frac{38}{169}, -\frac{115}{169}, \frac{27}{169}, \frac{27}{169}, \frac{27}{169}, \frac{57}{169}, \frac{46}{169})$ $+ \frac{2}{169}\sqrt{9514e^1} \otimes e_4$	{123569, 12359, 1239, 13567, 1357, 137, 23456789, 2345789, 234789, 34568, 3458, 348}
931:4	$0, 0, 0, 0, 0, 0, \frac{4}{51}\sqrt{21e^{12}}, \frac{8}{51}\sqrt{6e^{13}}, \frac{4}{51}\sqrt{21e^{17}} + \frac{4}{17}\sqrt{5e^{23}}$	$(-\frac{1}{51}, \frac{2}{17}, -\frac{2}{51}, \frac{28}{51}, -\frac{6}{17}, \frac{5}{51}, \frac{5}{51}, -\frac{1}{17}, \frac{4}{51})$ $+ \frac{4}{51}\sqrt{69e^2} \otimes e_5 + \frac{4}{51}\sqrt{69e^4} \otimes e_9$	{1269, 129, 14567, 1457, 26789, 2789, 4568, 458}
931:4	$0, 0, 0, 0, 0, 0, \frac{6}{2483}\sqrt{15962e^{12}}, \frac{12}{2483}\sqrt{4255e^{13}},$ $\frac{6}{2483}\sqrt{25438e^{17}} + \frac{6}{2483}\sqrt{6670e^{23}}$	$(-\frac{4}{2483}, \frac{15}{2483}, -\frac{8}{2483}, \frac{816}{2483}, \frac{835}{2483}, -\frac{64}{191}, \frac{11}{2483}, -\frac{12}{2483}, \frac{7}{2483})$ $+ \frac{12}{2483}\sqrt{7107e^5} \otimes e_9 + \frac{6}{2483}\sqrt{27554e^4} \otimes e_8 + \frac{6}{2483}\sqrt{48254e^1} \otimes e_6$	{12349, 13457, 236789, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:4	$0, 0, 0, 0, 0, \frac{7}{1315}\sqrt{4026}e^{12}, \frac{1}{1315}\sqrt{189222}e^{13},$ $\frac{1}{1315}\sqrt{57706}e^{17} + \frac{2}{1315}\sqrt{142923}e^{23}$	$(\frac{89}{1315}, -\frac{153}{1315}, \frac{178}{1315}, \frac{696}{1315}, -\frac{493}{1315}, \frac{126}{1315}, -\frac{64}{1315}, \frac{267}{1315}, \frac{5}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^3 \otimes e_5 + \frac{2}{1315}\sqrt{191235}e^4 \otimes e_9$	{123467, 12347, 1369, 139, 23468, 2348, 36789, 3789}
931:4	$0, 0, 0, 0, 0, \frac{2}{43}\sqrt{21}e^{12}, \frac{7}{43}\sqrt{3}e^{13}, \frac{1}{43}\sqrt{203}e^{17} + \frac{1}{43}\sqrt{119}e^{23}$	$(\frac{3}{43}, -\frac{7}{86}, \frac{6}{43}, -\frac{11}{43}, \frac{33}{86}, -\frac{8}{43}, -\frac{1}{86}, \frac{9}{43}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{329}e^3 \otimes e_6 + \frac{1}{43}\sqrt{357}e^5 \otimes e_9 + \frac{1}{43}\sqrt{413}e^1 \otimes e_4$	{12689, 15678, 24679, 456}
931:4	$0, 0, 0, 0, 0, \frac{10}{1187}\sqrt{839}e^{12}, \frac{1}{1187}\sqrt{199682}e^{13},$ $\frac{1}{1187}\sqrt{236598}e^{17} + \frac{2}{1187}\sqrt{69637}e^{23}$	$(-\frac{75}{1187}, \frac{19}{1187}, -\frac{150}{1187}, \frac{614}{1187}, \frac{708}{1187}, \frac{135}{1187}, -\frac{56}{1187}, -\frac{225}{1187}, -\frac{131}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^4 \otimes e_8 + \frac{1}{1187}\sqrt{961494}e^5 \otimes e_9$	{1234567, 123457, 13469, 1349, 23568, 2358, 36789, 3789}
931:4	$0, 0, 0, 0, 0, \frac{6}{2483}\sqrt{25438}e^{12}, \frac{12}{2483}\sqrt{4255}e^{13},$ $\frac{6}{2483}\sqrt{15962}e^{17} + \frac{6}{2483}\sqrt{6670}e^{23}$	$(-\frac{4}{2483}, \frac{427}{2483}, -\frac{8}{2483}, -\frac{64}{191}, \frac{816}{2483}, -\frac{401}{2483}, \frac{423}{2483}, -\frac{12}{2483}, \frac{419}{2483})$ $+ \frac{12}{2483}\sqrt{7107}e^2 \otimes e_6 + \frac{6}{2483}\sqrt{27554}e^5 \otimes e_8 + \frac{6}{2483}\sqrt{48254}e^1 \otimes e_4$	{12359, 13567, 234789, 3468}
931:4	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{39342}e^{12}, \frac{521}{521}\sqrt{94326}e^{13},$ $\frac{1}{521}\sqrt{39342}e^{17} + \frac{6}{521}\sqrt{1185}e^{23}$	$(\frac{7}{521}, \frac{33}{521}, \frac{14}{521}, \frac{258}{521}, -\frac{223}{521}, \frac{40}{521}, \frac{40}{521}, \frac{21}{521}, \frac{47}{521})$ $+ \frac{1}{521}\sqrt{124662}e^3 \otimes e_5 + \frac{2}{521}\sqrt{25833}e^4 \otimes e_8$	{1256789, 125789, 1568, 158, 24569, 2459, 4567, 457}
931:4	$0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{274398}e^{12}, \frac{4}{1219}\sqrt{3306}e^{13},$ $\frac{2}{1219}\sqrt{110751}e^{17} + \frac{1}{1219}\sqrt{38570}e^{23}$	$(\frac{61}{1219}, -\frac{79}{1219}, \frac{122}{1219}, \frac{594}{1219}, -\frac{490}{1219}, \frac{135}{1219}, -\frac{18}{1219}, \frac{183}{1219}, \frac{43}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^1 \otimes e_5 + \frac{3}{1219}\sqrt{56202}e^4 \otimes e_9$	{12369, 1239, 13467, 1347, 2356789, 235789, 34568, 3458}
931:4	$0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{110751}e^{12}, \frac{4}{1219}\sqrt{3306}e^{13},$ $\frac{1}{1219}\sqrt{274398}e^{17} + \frac{1}{1219}\sqrt{38570}e^{23}$	$(\frac{61}{1219}, \frac{227}{1219}, \frac{122}{1219}, -\frac{490}{1219}, -\frac{324}{1219}, \frac{135}{1219}, \frac{288}{1219}, \frac{183}{1219}, \frac{349}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^1 \otimes e_4 + \frac{3}{1219}\sqrt{56202}e^2 \otimes e_5$	{12369, 1239, 13567, 1357, 2346789, 234789, 34568, 3458}
931:4	$0, 0, 0, 0, 0, \frac{4}{403}\sqrt{134}e^{12}, \frac{4}{403}\sqrt{2010}e^{13},$ $\frac{2}{403}\sqrt{4623}e^{17} + \frac{4}{403}\sqrt{2010}e^{23}$	$(-\frac{10}{403}, \frac{8}{31}, -\frac{20}{403}, -\frac{154}{403}, \frac{33}{403}, \frac{33}{403}, \frac{94}{403}, -\frac{30}{403}, \frac{84}{403})$ $+ \frac{2}{403}\sqrt{12261}e^2 \otimes e_8 + \frac{2}{403}\sqrt{12529}e^3 \otimes e_4$	{14568, 1458, 148, 24569, 2459, 249}
931:4	$0, 0, 0, 0, 0, \frac{4}{3181}\sqrt{6821}e^{12}, \frac{6}{3181}\sqrt{23335}e^{13},$ $\frac{2}{3181}\sqrt{69287}e^{17} + \frac{2}{3181}\sqrt{342845}e^{23}$	$(-\frac{95}{3181}, \frac{433}{3181}, \frac{190}{3181}, -\frac{908}{3181}, \frac{961}{3181}, \frac{221}{3181}, \frac{338}{3181}, -\frac{285}{3181}, \frac{243}{3181})$ $+ \frac{2}{3181}\sqrt{391669}e^2 \otimes e_8 + \frac{2}{3181}\sqrt{405311}e^3 \otimes e_4 + \frac{4}{3181}\sqrt{66415}e^5 \otimes e_9$	{14568, 1458, 2469, 249}
931:4	$0, 0, 0, 0, 0, \frac{1}{386}\sqrt{273}e^{12}, \frac{1}{386}\sqrt{18291}e^{13},$ $\frac{1}{386}\sqrt{38766}e^{17} + \frac{7}{193}\sqrt{195}e^{23}$	$(\frac{3}{386}, -\frac{59}{772}, \frac{3}{193}, \frac{179}{386}, \frac{499}{772}, -\frac{47}{193}, -\frac{53}{772}, \frac{9}{386}, -\frac{47}{772})$ $+ \frac{273}{386}e^4 \otimes e_6 + \frac{3}{386}\sqrt{12558}e^5 \otimes e_9$	{1249, 1269, 1457, 1567, 24789, 26789, 458, 568}
931:4	$0, 0, 0, 0, 0, \frac{1}{40}\sqrt{574}e^{12}, \frac{3}{40}\sqrt{123}e^{13}, \frac{1}{40}\sqrt{574}e^{17} + \frac{3}{40}\sqrt{123}e^{23}$	$(\frac{13}{80}, -\frac{1}{80}, \frac{13}{40}, -\frac{7}{40}, \frac{3}{20}, \frac{3}{20}, \frac{39}{80}, \frac{5}{16})$ $+ \frac{1}{20}\sqrt{697}e^3 \otimes e_4$	{12456789, 1245789, 124789, 14568, 1458, 148, 24569, 2459, 249, 4567, 457, 47}
931:4	$0, 0, 0, 0, 0, \frac{4}{499}\sqrt{273}e^{12}, \frac{2}{499}\sqrt{18291}e^{13},$ $\frac{2}{499}\sqrt{38766}e^{17} + \frac{28}{499}\sqrt{195}e^{23}$	$(\frac{6}{499}, -\frac{59}{499}, \frac{12}{499}, \frac{1}{499}, \frac{85}{499}, \frac{85}{499}, -\frac{53}{499}, \frac{18}{499}, -\frac{47}{499})$ $+ \frac{6}{499}\sqrt{12558}e^4 \otimes e_9$	{12569, 1259, 129, 14567, 1457, 147, 256789, 25789, 2789, 4568, 458, 48}
931:4	$0, 0, 0, 0, 0, \frac{30}{179}e^{12}, \frac{2}{179}\sqrt{1245}e^{13}, \frac{1}{179}\sqrt{2730}e^{17} + \frac{6}{179}\sqrt{130}e^{23}$	$(\frac{1}{179}, \frac{53}{358}, \frac{2}{179}, -\frac{67}{358}, \frac{63}{179}, -\frac{58}{179}, \frac{55}{358}, \frac{3}{179}, \frac{57}{358})$ $+ \frac{1}{179}\sqrt{6090}e^5 \otimes e_8 + \frac{1}{179}\sqrt{8430}e^3 \otimes e_6 + \frac{3}{179}\sqrt{610}e^2 \otimes e_4$	{126789, 1468, 2569, 4567}
931:4	$0, 0, 0, 0, 0, \frac{1}{127}\sqrt{5934}e^{12}, \frac{1}{127}\sqrt{7482}e^{13}, \frac{6}{127}\sqrt{86}e^{17} + \frac{1}{127}\sqrt{7482}e^{23}$	$(-\frac{18}{127}, \frac{75}{127}, -\frac{36}{127}, \frac{22}{127}, \frac{22}{127}, \frac{22}{127}, \frac{57}{127}, -\frac{54}{127}, \frac{39}{127})$ $+ \frac{3}{127}\sqrt{3010}e^2 \otimes e_8$	{123, 1234, 12345, 123456, 345689, 34589, 3489, 389}
931:4	$0, 0, 0, 0, 0, \frac{1}{132}\sqrt{1030}e^{12}, \frac{1}{132}\sqrt{6386}e^{13},$ $\frac{1}{132}\sqrt{1030}e^{17} + \frac{1}{132}\sqrt{515}e^{23}$	$(-\frac{5}{88}, \frac{7}{44}, -\frac{5}{44}, \frac{65}{132}, \frac{161}{132}, -\frac{19}{66}, \frac{9}{88}, -\frac{15}{88}, \frac{1}{22})$ $+ \frac{103}{132}e^4 \otimes e_6 + \frac{1}{132}\sqrt{13802}e^5 \otimes e_8$	{1234579, 1235679, 1345, 1356, 23489, 23689, 3478, 3678}
931:4	$0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{236598}e^{12}, \frac{1}{1187}\sqrt{199682}e^{13},$ $\frac{10}{1187}\sqrt{839}e^{17} + \frac{2}{1187}\sqrt{69637}e^{23}$	$(-\frac{75}{1187}, \frac{401}{1187}, -\frac{150}{1187}, \frac{614}{1187}, -\frac{438}{1187}, \frac{135}{1187}, \frac{326}{1187}, -\frac{225}{1187}, \frac{251}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^4 \otimes e_8 + \frac{1}{1187}\sqrt{961494}e^2 \otimes e_5$	{1234, 12346, 1345679, 134579, 23678, 2378, 35689, 3589}
931:4	$0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{57706}e^{12}, \frac{1}{1315}\sqrt{189222}e^{13},$ $\frac{7}{1315}\sqrt{4026}e^{17} + \frac{2}{1315}\sqrt{142923}e^{23}$	$(\frac{89}{1315}, \frac{227}{1315}, \frac{178}{1315}, -\frac{444}{1315}, -\frac{493}{1315}, \frac{126}{1315}, \frac{316}{1315}, \frac{267}{1315}, \frac{81}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^3 \otimes e_5 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_4$	{123, 1236, 134679, 13479, 23678, 2378, 34689, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:4	$0, 0, 0, 0, 0, 0, \frac{12}{523}\sqrt{141}e^{12}, \frac{72}{523}\sqrt{2}e^{13}, \frac{12}{523}\sqrt{141}e^{17} + \frac{12}{523}\sqrt{357}e^{23}$	$(-\frac{25}{523}, \frac{70}{523}, -\frac{50}{523}, \frac{141}{523}, \frac{236}{523}, -\frac{146}{523}, \frac{45}{523}, -\frac{75}{523}, \frac{20}{523})$ $+ \frac{12}{523}\sqrt{573}e^2 \otimes e_6 + \frac{12}{523}\sqrt{573}e^5 \otimes e_9 + \frac{144}{523}\sqrt{2}e^4 \otimes e_8$	{1249, 14567, 2789, 568}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{1793}\sqrt{563342}e^{12}, \frac{2}{1793}\sqrt{125255}e^{13},$ $\frac{6}{1793}\sqrt{9165}e^{17} + \frac{4}{1793}\sqrt{12831}e^{34}$	$(-\frac{89}{1793}, \frac{456}{1793}, -\frac{6}{163}, \frac{344}{1793}, -\frac{700}{1793}, \frac{16}{163}, \frac{367}{1793}, -\frac{155}{1793}, \frac{278}{1793})$ $+ \frac{13}{1793}\sqrt{5358}e^2 \otimes e_8 + \frac{2}{1793}\sqrt{267618}e^1 \otimes e_5$	{123469, 12349, 14678, 1478, 25679, 2579, 3568, 358}
931:5	$0, 0, 0, 0, 0, 0, \frac{5}{1709}\sqrt{1330}e^{12}, \frac{60}{1709}\sqrt{105}e^{13},$ $\frac{20}{1709}\sqrt{910}e^{17} + \frac{315}{1709}\sqrt{10}e^{34}$	$(\frac{170}{1709}, \frac{178}{1709}, \frac{205}{1709}, \frac{313}{1709}, -\frac{670}{1709}, -\frac{562}{1709}, \frac{348}{1709}, \frac{375}{1709}, \frac{518}{1709})$ $+ \frac{35}{1709}\sqrt{1030}e^4 \otimes e_6 + \frac{5}{1709}\sqrt{58030}e^3 \otimes e_5$	{123679, 1245789, 134, 1568, 23689, 2459, 3478, 567}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{191}\sqrt{510}e^{12}, \frac{20}{191}\sqrt{21}e^{13}, \frac{4}{191}\sqrt{130}e^{17} + \frac{12}{191}\sqrt{5}e^{34}$	$(\frac{137}{191}, -\frac{183}{191}, -\frac{135}{191}, \frac{113}{191}, \frac{161}{191}, -\frac{47}{191}, -\frac{23}{191}, \frac{1}{191}, \frac{91}{191})$ $+ \frac{10}{191}\sqrt{106}e^5 \otimes e_8 + \frac{2}{191}\sqrt{1510}e^4 \otimes e_6 + \frac{2}{191}\sqrt{2910}e^1 \otimes e_2$	{13459, 1689, 2368, 245}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{115}\sqrt{399}e^{12}, \frac{2}{23}\sqrt{57}e^{13}, \frac{3}{115}\sqrt{133}e^{17} + \frac{3}{115}\sqrt{133}e^{34}$	$(-\frac{7}{46}, \frac{22}{115}, \frac{22}{115}, -\frac{7}{23}, \frac{123}{230}, \frac{8}{115}, \frac{9}{230}, \frac{9}{115}, -\frac{13}{115})$ $+ \frac{1}{115}\sqrt{6099}e^3 \otimes e_4 + \frac{1}{115}\sqrt{6099}e^5 \otimes e_8$	{135, 1356, 1468, 148, 3678, 378, 4567, 457}
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1722}e^{12}, \frac{2}{527}\sqrt{45633}e^{13},$ $\frac{2}{527}\sqrt{20951}e^{17} + \frac{14}{527}\sqrt{861}e^{34}$	$(\frac{25}{527}, \frac{111}{527}, \frac{13}{31}, -\frac{60}{527}, -\frac{353}{527}, \frac{87}{527}, \frac{8}{31}, \frac{246}{527}, \frac{161}{527})$ $+ \frac{4}{527}\sqrt{31570}e^3 \otimes e_5$	{123679, 12379, 12456789, 1245789, 134, 1346, 1568, 158, 23689, 2389, 24569, 2459, 34678, 3478, 567, 57}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{980}\sqrt{8466}e^{12}, \frac{1}{980}\sqrt{42330}e^{13},$ $\frac{9}{490}\sqrt{83}e^{17} + \frac{3}{980}\sqrt{6142}e^{34}$	$(-\frac{1}{49}, \frac{11}{245}, \frac{253}{1960}, -\frac{1}{8}, \frac{711}{1960}, -\frac{269}{980}, \frac{6}{245}, \frac{213}{1960}, \frac{1}{245})$ $+ \frac{1}{980}\sqrt{146661}e^3 \otimes e_4 + \frac{1}{980}\sqrt{146661}e^5 \otimes e_8 + \frac{3}{490}\sqrt{4565}e^1 \otimes e_6$	{1357, 1478, 368, 456}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{1699}\sqrt{30470}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13},$ $\frac{6}{1699}\sqrt{8587}e^{17} + \frac{1}{1699}\sqrt{377274}e^{34}$	$(\frac{310}{1699}, -\frac{521}{1699}, \frac{465}{1699}, -\frac{366}{1699}, \frac{140}{1699}, \frac{140}{1699}, -\frac{211}{1699}, \frac{775}{1699}, \frac{99}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^3 \otimes e_4 + \frac{2}{1699}\sqrt{343203}e^1 \otimes e_2$	{23568, 2358, 238, 24, 245, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{448602}e^{12}, \frac{4}{1445}\sqrt{18449}e^{13},$ $\frac{1}{1445}\sqrt{137882}e^{17} + \frac{1}{1445}\sqrt{444718}e^{34}$	$(-\frac{144}{1445}, \frac{614}{1445}, -\frac{213}{1445}, \frac{539}{1445}, -\frac{432}{1445}, \frac{168}{1445}, \frac{94}{289}, -\frac{21}{85}, \frac{326}{1445})$ $+ \frac{1}{1445}\sqrt{1314734}e^2 \otimes e_8 + \frac{4}{289}\sqrt{2913}e^4 \otimes e_5$	{1234, 12346, 146789, 14789, 2567, 257, 35689, 3589}
931:5	$0, 0, 0, 0, 0, 0, \frac{110}{1251}\sqrt{31}e^{12}, \frac{20}{1251}\sqrt{341}e^{13},$ $\frac{5}{1251}\sqrt{12958}e^{17} + \frac{5}{417}\sqrt{682}e^{34}$	$(\frac{275}{1251}, -\frac{85}{1251}, -\frac{10}{417}, \frac{55}{139}, -\frac{500}{1251}, -\frac{280}{1251}, \frac{190}{1251}, \frac{245}{1251}, \frac{155}{417})$ $+ \frac{5}{1251}\sqrt{27094}e^4 \otimes e_6 + \frac{5}{417}\sqrt{4526}e^1 \otimes e_5$	{12369, 12489, 1347, 1678, 2356789, 24579, 3458, 56}
931:5	$0, 0, 0, 0, 0, 0, \frac{6}{3161}\sqrt{26565}e^{12}, \frac{18}{3161}\sqrt{943}e^{13},$ $\frac{18}{3161}\sqrt{1978}e^{17} + \frac{6}{3161}\sqrt{52302}e^{34}$	$(-\frac{240}{3161}, \frac{647}{3161}, -\frac{355}{3161}, \frac{18}{109}, \frac{1409}{3161}, -\frac{720}{3161}, \frac{407}{3161}, -\frac{595}{3161}, \frac{167}{3161})$ $+ \frac{24}{3161}\sqrt{3243}e^2 \otimes e_8 + \frac{60}{3161}\sqrt{690}e^4 \otimes e_6 + \frac{6}{3161}\sqrt{77901}e^5 \otimes e_9$	{1249, 134578, 23679, 568}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{347}\sqrt{24346}e^{12}, \frac{1}{347}\sqrt{26418}e^{13},$ $\frac{1}{347}\sqrt{1554}e^{17} + \frac{1}{347}\sqrt{1554}e^{34}$	$(-\frac{56}{347}, \frac{145}{347}, -\frac{9}{347}, \frac{42}{347}, \frac{194}{347}, -\frac{114}{347}, \frac{89}{347}, -\frac{65}{347}, \frac{33}{347})$ $+ \frac{1}{347}\sqrt{80290}e^5 \otimes e_8 + \frac{3}{347}\sqrt{8806}e^2 \otimes e_6$	{1235, 1248, 1345679, 16789, 2378, 2457, 34689, 569}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{1122}e^{12}, \frac{4}{47}\sqrt{34}e^{13}, \frac{2}{141}\sqrt{102}e^{17} + \frac{2}{141}\sqrt{102}e^{34}$	$(-\frac{28}{141}, \frac{68}{141}, -\frac{2}{47}, \frac{6}{141}, \frac{67}{141}, -\frac{35}{141}, \frac{40}{141}, -\frac{34}{141}, \frac{4}{47})$ $+ \frac{2}{141}\sqrt{3774}e^2 \otimes e_8 + \frac{34}{47}e^5 \otimes e_6$	{1235, 1236, 15789, 16789, 2457, 2467, 34589, 34689}
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{29}\sqrt{26}e^{12}, \frac{2}{29}\sqrt{65}e^{13}, \frac{6}{29}\sqrt{13}e^{17} + \frac{2}{29}\sqrt{39}e^{34}$	$(\frac{7}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{8}{29}, -\frac{19}{29}, \frac{5}{29}, \frac{4}{29}, \frac{10}{29}, \frac{11}{29})$ $+ \frac{4}{29}\sqrt{78}e^1 \otimes e_5$	{123469, 12349, 12689, 1289, 1367, 137, 14678, 1478, 23456789, 2345789, 25679, 2579, 3568, 358, 45, 456}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{347}\sqrt{24346}e^{12}, \frac{1}{347}\sqrt{26418}e^{13},$ $\frac{1}{347}\sqrt{1554}e^{17} + \frac{1}{347}\sqrt{1554}e^{34}$	$(-\frac{56}{347}, \frac{145}{347}, \frac{146}{347}, -\frac{113}{347}, -\frac{114}{347}, \frac{39}{347}, \frac{89}{347}, \frac{90}{347}, \frac{33}{347})$ $+ \frac{1}{347}\sqrt{80290}e^3 \otimes e_4 + \frac{3}{347}\sqrt{8806}e^2 \otimes e_5$	{123, 1236, 12468, 1248, 23678, 2378, 2467, 247}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{212}\sqrt{534}e^{12}, \frac{1}{106}\sqrt{2937}e^{13},$ $\frac{1}{212}\sqrt{2314}e^{17} + \frac{1}{212}\sqrt{2314}e^{34}$	$(-\frac{9}{53}, \frac{15}{53}, \frac{77}{424}, -\frac{101}{424}, \frac{183}{424}, -\frac{29}{212}, \frac{6}{53}, \frac{5}{424}, -\frac{3}{53})$ $+ \frac{1}{212}\sqrt{13795}e^3 \otimes e_4 + \frac{1}{212}\sqrt{13795}e^5 \otimes e_8 + \frac{1}{212}\sqrt{7654}e^2 \otimes e_6$	{1356, 1468, 3678, 4567}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{342}\sqrt{5267}e^{12}, \frac{1}{342}\sqrt{17862}e^{13},$ $\frac{1}{342}\sqrt{9389}e^{17} + \frac{1}{171}\sqrt{7099}e^{34}$	$(-\frac{25}{342}, \frac{131}{342}, \frac{23}{76}, -\frac{5}{76}, -\frac{49}{171}, -\frac{251}{684}, \frac{53}{171}, \frac{157}{684}, \frac{9}{38})$ $+ \frac{1}{342}\sqrt{75570}e^3 \otimes e_6 + \frac{5}{342}\sqrt{2519}e^2 \otimes e_5$	{1234, 1268, 13579, 1456789, 23478, 267, 3589, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{4033}e^{12}, \frac{2}{441}\sqrt{7303}e^{13},$ $\frac{2}{441}\sqrt{6322}e^{17} + \frac{10}{441}\sqrt{654}e^{34}$	$(\frac{16}{441}, \frac{1}{63}, -\frac{13}{147}, \frac{26}{147}, \frac{257}{441}, -\frac{20}{63}, \frac{23}{441}, -\frac{23}{441}, \frac{13}{147})$ $+ \frac{2}{441}\sqrt{23217}e^5 \otimes e_9 + \frac{4}{441}\sqrt{5014}e^4 \otimes e_6$	{123689, 1249, 134578, 1567, 23679, 24789, 345, 568}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{64}\sqrt{62}e^{12}, \frac{1}{64}\sqrt{62}e^{13}, \frac{1}{64}\sqrt{465}e^{17} + \frac{1}{64}\sqrt{465}e^{34}$	$(-\frac{19}{128}, \frac{17}{64}, \frac{29}{128}, -\frac{33}{128}, \frac{29}{64}, -\frac{7}{32}, \frac{15}{128}, \frac{5}{64}, -\frac{1}{32})$ $+ \frac{1}{32}\sqrt{310}e^2 \otimes e_6 + \frac{1}{64}\sqrt{1426}e^5 \otimes e_9 + \frac{1}{64}\sqrt{930}e^3 \otimes e_4$	{12389, 1249, 2379, 24789}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{150}\sqrt{715}e^{12}, \frac{1}{150}\sqrt{3410}e^{13}, \frac{1}{75}\sqrt{715}e^{17} + \frac{1}{75}\sqrt{55}e^{34}$	$(\frac{17}{150}, -\frac{19}{75}, \frac{17}{100}, -\frac{59}{300}, \frac{17}{50}, \frac{23}{300}, -\frac{7}{50}, \frac{17}{60}, -\frac{2}{75})$ $+ \frac{1}{150}\sqrt{4345}e^5 \otimes e_9 + \frac{1}{150}\sqrt{4730}e^3 \otimes e_4 + \frac{2}{75}\sqrt{385}e^1 \otimes e_2$	{23568, 2358, 245, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{46}e^{12}, \frac{2}{79}\sqrt{299}e^{13}, \frac{2}{79}\sqrt{345}e^{17} + \frac{2}{79}\sqrt{345}e^{34}$	$(-\frac{11}{79}, \frac{23}{79}, \frac{7}{79}, -\frac{6}{79}, \frac{47}{79}, -\frac{23}{79}, \frac{12}{79}, -\frac{4}{79}, \frac{1}{79})$ $+ \frac{2}{79}\sqrt{874}e^5 \otimes e_9 + \frac{8}{79}\sqrt{46}e^2 \otimes e_6$	{12389, 1249, 1345678, 1567, 2379, 24789, 3456, 568}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{1122}e^{12}, \frac{2}{15}\sqrt{34}e^{13}, \frac{1}{45}\sqrt{102}e^{17} + \frac{1}{45}\sqrt{102}e^{34}$	$(-\frac{14}{45}, \frac{34}{45}, -\frac{1}{15}, \frac{1}{5}, \frac{8}{45}, \frac{8}{45}, \frac{4}{9}, -\frac{17}{45}, \frac{2}{15})$ $+ \frac{1}{45}\sqrt{3774}e^2 \otimes e_8$	{123, 1235, 12356, 156789, 15789, 1789, 24567, 2457, 247, 345689, 34589, 3489}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{45}\sqrt{10}e^{12}, \frac{2}{15}\sqrt{5}e^{13}, \frac{2}{45}\sqrt{15}e^{17} + \frac{2}{45}\sqrt{65}e^{34}$	$(-\frac{1}{45}, \frac{1}{9}, -\frac{1}{15}, \frac{2}{15}, \frac{13}{45}, -\frac{13}{45}, \frac{4}{45}, -\frac{4}{45}, \frac{1}{15})$ $+ \frac{2}{9}\sqrt{2}e^5 \otimes e_9 + \frac{8}{45}\sqrt{5}e^3 \otimes e_6 + \frac{8}{45}\sqrt{5}e^4 \otimes e_8$	{1345, 1568, 2389, 2469}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{582}e^{12}, \frac{2}{361}\sqrt{2037}e^{13},$ $\frac{10}{361}\sqrt{97}e^{17} + \frac{2}{361}\sqrt{10185}e^{34}$	$(-\frac{13}{361}, \frac{33}{361}, -\frac{87}{361}, \frac{94}{361}, \frac{201}{361}, \frac{39}{361}, \frac{20}{361}, -\frac{100}{361}, \frac{7}{361})$ $+ \frac{18}{361}\sqrt{194}e^5 \otimes e_9 + \frac{8}{361}\sqrt{970}e^4 \otimes e_8$	{134567, 13457, 15678, 1578, 236789, 23789, 24679, 2479}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{3}e^{12}, \frac{9}{38}\sqrt{2}e^{13}, \frac{3}{38}\sqrt{30}e^{17} + \frac{3}{38}\sqrt{30}e^{34}$	$(-\frac{2}{19}, \frac{2}{19}, \frac{23}{76}, -\frac{31}{76}, \frac{23}{38}, \frac{9}{76}, 0, \frac{15}{76}, -\frac{2}{19})$ $+ \frac{3}{38}\sqrt{111}e^5 \otimes e_9 + \frac{9}{38}\sqrt{10}e^3 \otimes e_4$	{12369, 1239, 124689, 12489, 236789, 23789, 24679, 2479}
931:5	$0, 0, 0, 0, 0, 0, \frac{18}{1315}\sqrt{285}e^{12}, \frac{6}{1315}\sqrt{9158}e^{13},$ $\frac{6}{1315}\sqrt{38}e^{17} + \frac{6}{1315}\sqrt{38}e^{34}$	$(\frac{141}{1315}, -\frac{201}{1315}, \frac{6}{1315}, \frac{15}{263}, \frac{489}{1315}, \frac{336}{1315}, -\frac{12}{263}, \frac{147}{1315}, \frac{81}{1315})$ $+ \frac{12}{1315}\sqrt{1957}e^5 \otimes e_8 + \frac{6}{1315}\sqrt{7847}e^1 \otimes e_2 + \frac{6}{1315}\sqrt{7847}e^3 \otimes e_6$	{1359, 14689, 2348, 256}
931:5	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{2}e^{12}, \frac{6}{17}\sqrt{3}e^{13}, \frac{6}{17}\sqrt{5}e^{17} + \frac{6}{17}\sqrt{5}e^{34}$	$(-\frac{1}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{2}{17}, 1, \frac{3}{17}, 0, 0, -\frac{1}{17})$ $+ \frac{6}{17}\sqrt{14}e^5 \otimes e_9$	{123689, 12389, 12469, 1249, 1345678, 134578, 1567, 157, 23679, 2379, 246789, 24789, 345, 3456, 568, 58}
931:5	$0, 0, 0, 0, 0, 0, \frac{28}{107}e^{12}, \frac{14}{963}\sqrt{273}e^{13}, \frac{14}{963}\sqrt{489}e^{17} + \frac{14}{963}\sqrt{381}e^{34}$	$(\frac{53}{963}, -\frac{7}{321}, -\frac{131}{963}, \frac{24}{107}, \frac{379}{963}, -\frac{241}{963}, \frac{32}{963}, -\frac{26}{321}, \frac{85}{963})$ $+ \frac{224}{963}\sqrt{3}e^4 \otimes e_8 + \frac{28}{963}\sqrt{219}e^5 \otimes e_9 + \frac{28}{963}\sqrt{246}e^1 \otimes e_6$	{13457, 1578, 236789, 24679}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{259}\sqrt{258}e^{12}, \frac{2}{259}\sqrt{1677}e^{13},$ $\frac{2}{259}\sqrt{1505}e^{17} + \frac{2}{259}\sqrt{1505}e^{34}$	$(\frac{33}{259}, -\frac{53}{259}, \frac{27}{259}, -\frac{2}{37}, \frac{99}{259}, -\frac{59}{259}, -\frac{20}{259}, \frac{60}{259}, \frac{13}{259})$ $+ \frac{2}{259}\sqrt{3354}e^5 \otimes e_9 + \frac{8}{259}\sqrt{215}e^1 \otimes e_2 + \frac{8}{259}\sqrt{215}e^3 \otimes e_6$	{139, 14689, 23458, 256}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{3121}\sqrt{225822}e^{12}, \frac{2}{3121}\sqrt{11723}e^{13},$ $\frac{30}{3121}\sqrt{617}e^{17} + \frac{2}{3121}\sqrt{434985}e^{34}$	$(-\frac{293}{3121}, \frac{713}{3121}, -\frac{407}{3121}, \frac{534}{3121}, \frac{1361}{3121}, -\frac{521}{3121}, \frac{420}{3121}, -\frac{700}{3121}, \frac{127}{3121})$ $+ \frac{16}{3121}\sqrt{9255}e^4 \otimes e_8 + \frac{2}{3121}\sqrt{667594}e^5 \otimes e_9 + \frac{40}{3121}\sqrt{1234}e^2 \otimes e_6$	{12389, 1249, 3456, 568}
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1722}e^{12}, \frac{2}{527}\sqrt{45633}e^{13},$ $\frac{14}{527}\sqrt{861}e^{17} + \frac{2}{527}\sqrt{20951}e^{34}$	$(\frac{245}{527}, -\frac{329}{527}, \frac{1}{527}, \frac{160}{527}, \frac{87}{527}, \frac{87}{527}, -\frac{84}{527}, \frac{246}{527}, \frac{161}{527})$ $+ \frac{4}{527}\sqrt{31570}e^1 \otimes e_2$	{134569, 13459, 1349, 15689, 1589, 189, 23568, 2358, 238, 24, 245, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{1259}\sqrt{2685}e^{12}, \frac{5}{1259}\sqrt{11814}e^{13},$ $\frac{18}{1259}\sqrt{895}e^{17} + \frac{1}{1259}\sqrt{191530}e^{34}$	$(\frac{437}{1259}, -\frac{458}{1259}, -\frac{125}{1259}, \frac{541}{1259}, -\frac{354}{1259}, \frac{147}{1259}, -\frac{21}{1259}, \frac{312}{1259}, \frac{416}{1259})$ $+ \frac{1}{1259}\sqrt{1093690}e^1 \otimes e_2 + \frac{1}{1259}\sqrt{896790}e^4 \otimes e_5$	{13569, 1359, 14689, 1489, 23468, 2348, 25, 256}
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{95}\sqrt{30}e^{12}, \frac{2}{95}\sqrt{465}e^{13}, \frac{2}{95}\sqrt{255}e^{17} + \frac{18}{95}\sqrt{5}e^{34}$	$(\frac{1}{95}, \frac{3}{19}, -\frac{7}{95}, \frac{24}{95}, -\frac{37}{95}, \frac{7}{95}, \frac{16}{95}, -\frac{6}{95}, \frac{17}{95})$ $+ \frac{4}{95}\sqrt{165}e^3 \otimes e_5 + \frac{4}{95}\sqrt{165}e^4 \otimes e_8$	{134, 1346, 1568, 158, 23689, 2389, 24569, 2459}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{53}e^{12}, \frac{1}{33}\sqrt{53}e^{13}, \frac{1}{33}\sqrt{159}e^{17} + \frac{1}{33}\sqrt{159}e^{34}$	$(\frac{5}{66}, \frac{3}{22}, \frac{3}{22}, \frac{5}{33}, 1, -\frac{20}{33}, \frac{7}{33}, \frac{7}{33}, \frac{19}{66})$ $+ \frac{53}{33}e^5 \otimes e_6$	{12359, 12369, 124589, 124689, 13457, 13467, 1578, 1678, 235789, 236789, 24579, 24679, 3458, 3468, 5, 6}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{419}\sqrt{815e^{12}}, \frac{2}{419}\sqrt{16626e^{13}}, \frac{2}{419}\sqrt{2445e^{17}} + \frac{2}{419}\sqrt{2445e^{34}}$	$(-\frac{25}{419}, \frac{62}{419}, \frac{169}{419}, -\frac{157}{419}, \frac{205}{419}, -\frac{121}{419}, \frac{37}{419}, \frac{144}{419}, \frac{12}{419}) + \frac{2}{419}\sqrt{34882e^3} \otimes e_4 + \frac{326}{419}e^5 \otimes e_6$	{135, 136, 1458, 1468, 3578, 3678, 457, 467}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{407}\sqrt{1722e^{12}}, \frac{1}{407}\sqrt{45633e^{13}}, \frac{1}{407}\sqrt{20951e^{17}} + \frac{7}{407}\sqrt{861e^{34}}$	$(\frac{25}{814}, \frac{3}{22}, -\frac{219}{814}, \frac{190}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{68}{407}, -\frac{97}{407}, \frac{161}{814}) + \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570e^4} \otimes e_8$	{1345, 1346, 158, 168, 23589, 23689, 2459, 2469}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{13026e^{12}}, \frac{2}{659}\sqrt{26553e^{13}}, \frac{2}{659}\sqrt{10855e^{17}} + \frac{2}{659}\sqrt{6513e^{34}}$	$(\frac{91}{659}, -\frac{3}{659}, \frac{143}{659}, \frac{36}{659}, -\frac{243}{659}, -\frac{191}{659}, \frac{88}{659}, \frac{234}{659}, \frac{179}{659}) + \frac{2}{659}\sqrt{44422e^3} \otimes e_6 + \frac{2}{659}\sqrt{53106e^1} \otimes e_5$	{1239, 124689, 1347, 1678, 235789, 245679, 3458, 56}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{688}\sqrt{879e^{12}}, \frac{1}{688}\sqrt{82626e^{13}}, \frac{1}{688}\sqrt{12599e^{17}} + \frac{1}{688}\sqrt{12599e^{34}}$	$(-\frac{315}{1376}, \frac{249}{688}, \frac{227}{1376}, -\frac{359}{1376}, \frac{227}{688}, \frac{59}{688}, \frac{183}{1376}, -\frac{11}{172}, -\frac{33}{344}) + \frac{1}{172}\sqrt{6153e^5} \otimes e_9 + \frac{1}{344}\sqrt{35746e^2} \otimes e_8 + \frac{1}{688}\sqrt{127162e^3} \otimes e_4$	{12369, 1239, 24679, 2479}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{150}\sqrt{715e^{12}}, \frac{1}{150}\sqrt{3410e^{13}}, \frac{1}{75}\sqrt{715e^{17}} + \frac{1}{75}\sqrt{55e^{34}}$	$(\frac{17}{150}, -\frac{19}{75}, -\frac{7}{60}, \frac{9}{100}, \frac{109}{300}, \frac{17}{50}, -\frac{7}{50}, -\frac{1}{300}, -\frac{2}{75}) + \frac{1}{150}\sqrt{4345e^6} \otimes e_9 + \frac{1}{150}\sqrt{4730e^5} \otimes e_8 + \frac{2}{75}\sqrt{385e^1} \otimes e_2$	{13459, 189, 2368, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{323}\sqrt{5665e^{12}}, \frac{2}{323}\sqrt{1133e^{13}}, \frac{4}{323}\sqrt{1133e^{17}} + \frac{4}{323}\sqrt{1133e^{34}}$	$(-\frac{70}{323}, \frac{121}{323}, -\frac{15}{323}, -\frac{4}{323}, \frac{11}{323}, \frac{40}{323}, \frac{3}{19}, -\frac{5}{19}, -\frac{1}{17}) + \frac{14}{323}\sqrt{309e^5} \otimes e_9 + \frac{4}{323}\sqrt{3502e^2} \otimes e_8$	{12369, 1239, 15678, 1578, 24679, 2479, 34568, 3458}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{15502e^{12}}, \frac{2}{531}\sqrt{14491e^{13}}, \frac{4}{531}\sqrt{1685e^{17}} + \frac{2}{177}\sqrt{7414e^{34}}$	$(\frac{112}{531}, \frac{49}{531}, -\frac{20}{177}, \frac{37}{59}, -\frac{341}{531}, \frac{95}{531}, \frac{161}{531}, \frac{52}{531}, \frac{91}{177}) + \frac{4}{531}\sqrt{36733e^4} \otimes e_5$	{123468, 12348, 125, 1256, 1356789, 135789, 14679, 1479, 23467, 2347, 25678, 2578, 3569, 359, 4689, 489}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{1699}\sqrt{30470e^{12}}, \frac{1}{1699}\sqrt{1055370e^{13}}, \frac{6}{1699}\sqrt{8587e^{17}} + \frac{1}{1699}\sqrt{377274e^{34}}$	$(\frac{310}{1699}, -\frac{521}{1699}, -\frac{268}{1699}, \frac{367}{1699}, \frac{873}{1699}, \frac{140}{1699}, -\frac{211}{1699}, \frac{42}{1699}, \frac{99}{1699}) + \frac{1}{1699}\sqrt{1218246e^5} \otimes e_8 + \frac{2}{1699}\sqrt{343203e^1} \otimes e_2$	{134569, 13459, 1689, 189, 2368, 238, 245, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{1613}\sqrt{203962e^{12}}, \frac{4}{1613}\sqrt{48983e^{13}}, \frac{5}{1613}\sqrt{11242e^{17}} + \frac{1}{1613}\sqrt{316382e^{34}}$	$(-\frac{280}{1613}, \frac{742}{1613}, \frac{219}{1613}, -\frac{37}{1613}, \frac{584}{1613}, \frac{160}{1613}, \frac{462}{1613}, -\frac{61}{1613}, \frac{182}{1613}) + \frac{1}{1613}\sqrt{1138654e^2} \otimes e_8 + \frac{4}{1613}\sqrt{74679e^3} \otimes e_5$	{1234, 12346, 1456789, 145789, 2567, 257, 3689, 389}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{407}\sqrt{1722e^{12}}, \frac{1}{407}\sqrt{45633e^{13}}, \frac{7}{407}\sqrt{861e^{17}} + \frac{1}{407}\sqrt{20951e^{34}}$	$(\frac{245}{814}, -\frac{329}{814}, \frac{1}{814}, \frac{80}{407}, \frac{17}{37}, -\frac{100}{407}, -\frac{42}{407}, \frac{123}{407}, \frac{161}{814}) + \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570e^1} \otimes e_2$	{13459, 13469, 1589, 1689, 2358, 2368, 245, 246}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{342}\sqrt{5267e^{12}}, \frac{1}{342}\sqrt{17862e^{13}}, \frac{1}{342}\sqrt{9389e^{17}} + \frac{1}{171}\sqrt{7099e^{34}}$	$(-\frac{25}{342}, \frac{131}{342}, -\frac{41}{228}, \frac{5}{12}, -\frac{49}{171}, \frac{79}{684}, \frac{53}{171}, -\frac{173}{684}, \frac{9}{38}) + \frac{1}{342}\sqrt{75570e^4} \otimes e_8 + \frac{5}{342}\sqrt{2519e^2} \otimes e_5$	{1234, 12346, 1268, 128, 35689, 3589, 4569, 459}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{13026e^{12}}, \frac{2}{659}\sqrt{26553e^{13}}, \frac{2}{659}\sqrt{10855e^{17}} + \frac{2}{659}\sqrt{6513e^{34}}$	$(\frac{91}{659}, -\frac{3}{659}, \frac{123}{659}, \frac{302}{659}, -\frac{243}{659}, \frac{75}{659}, \frac{88}{659}, -\frac{32}{659}, \frac{179}{659}) + \frac{2}{659}\sqrt{44422e^4} \otimes e_8 + \frac{2}{659}\sqrt{53106e^1} \otimes e_5$	{13467, 1347, 1678, 178, 2356789, 235789, 245679, 24579}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{1172}\sqrt{72474e^{12}}, \frac{1}{586}\sqrt{61166e^{13}}, \frac{1}{1172}\sqrt{20046e^{17}} + \frac{1}{586}\sqrt{19789e^{34}}$	$(\frac{65}{1172}, -\frac{48}{293}, \frac{195}{2344}, -\frac{319}{2344}, \frac{839}{2344}, \frac{53}{1172}, -\frac{127}{1172}, \frac{325}{1172}, -\frac{31}{586}) + \frac{1}{1172}\sqrt{188381e^3} \otimes e_4 + \frac{1}{1172}\sqrt{188381e^5} \otimes e_8 + \frac{1}{586}\sqrt{49601e^1} \otimes e_2$	{2368, 238, 245, 2456}
931:5	$0, 0, 0, 0, 0, 0, \frac{20}{363}\sqrt{15e^{12}}, \frac{10}{121}\sqrt{34e^{13}}, \frac{10}{363}\sqrt{57e^{17}} + \frac{10}{363}\sqrt{57e^{34}}$	$(-\frac{7}{33}, \frac{142}{363}, \frac{23}{121}, -\frac{27}{121}, \frac{101}{363}, -\frac{49}{363}, \frac{65}{363}, -\frac{8}{363}, -\frac{4}{121}) + \frac{10}{121}\sqrt{42e^3} \otimes e_4 + \frac{20}{363}\sqrt{102e^2} \otimes e_8 + \frac{50}{121}e^5 \otimes e_6$	{1235, 1236, 2457, 2467}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{211}\sqrt{1407e^{12}}, \frac{3}{211}\sqrt{210e^{13}}, \frac{9}{422}\sqrt{406e^{17}} + \frac{3}{422}\sqrt{861e^{34}}$	$(\frac{39}{844}, \frac{73}{422}, \frac{23}{211}, \frac{33}{211}, -\frac{339}{844}, -\frac{58}{211}, \frac{185}{844}, \frac{131}{844}, \frac{56}{211}) + \frac{3}{422}\sqrt{6783e^2} \otimes e_6 + \frac{3}{422}\sqrt{9030e^1} \otimes e_5$	{12349, 1289, 1367, 14678, 2345789, 2579, 3568, 456}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{582e^{12}}, \frac{2}{361}\sqrt{2037e^{13}}, \frac{10}{361}\sqrt{97e^{17}} + \frac{2}{361}\sqrt{10185e^{34}}$	$(-\frac{13}{361}, \frac{33}{361}, \frac{73}{361}, -\frac{66}{361}, \frac{201}{361}, -\frac{121}{361}, \frac{20}{361}, \frac{60}{361}, \frac{7}{361}) + \frac{18}{361}\sqrt{194e^5} \otimes e_9 + \frac{8}{361}\sqrt{970e^3} \otimes e_6$	{1239, 124689, 13457, 15678, 23789, 24679, 3458, 56}
931:5	$0, 0, 0, 0, 0, 0, \frac{13}{1531}\sqrt{1486e^{12}}, \frac{1}{1531}\sqrt{646410e^{13}}, \frac{15}{1531}\sqrt{1486e^{17}} + \frac{4}{1531}\sqrt{15603e^{34}}$	$(\frac{113}{1531}, -\frac{13}{1531}, \frac{478}{1531}, -\frac{265}{1531}, -\frac{630}{1531}, \frac{156}{1531}, \frac{100}{1531}, \frac{591}{1531}, \frac{213}{1531}) + \frac{1}{1531}\sqrt{875254e^3} \otimes e_4 + \frac{2}{1531}\sqrt{291999e^1} \otimes e_5$	{1367, 137, 14678, 1478, 3568, 358, 45, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{815}e^{12}, \frac{1}{128}\sqrt{16626}e^{13},$ $\frac{1}{128}\sqrt{2445}e^{17} + \frac{1}{128}\sqrt{2445}e^{34}$	$(-\frac{25}{256}, \frac{31}{128}, \frac{169}{256}, -\frac{157}{256}, \frac{21}{128}, \frac{21}{128}, \frac{37}{256}, \frac{9}{16}, \frac{3}{64})$ $+ \frac{1}{128}\sqrt{34882}e^3 \otimes e_4$	{13, 135, 1356, 14568, 1458, 148, 35678, 3578, 378, 4567, 457, 47}
931:5	$0, 0, 0, 0, 0, 0, \frac{12}{61}\sqrt{2}e^{12}, \frac{4}{61}\sqrt{78}e^{13}, \frac{4}{61}\sqrt{14}e^{17} + \frac{4}{61}\sqrt{14}e^{34}$	$(\frac{15}{61}, -\frac{17}{61}, \frac{21}{122}, \frac{5}{122}, -\frac{43}{122}, \frac{6}{61}, -\frac{2}{61}, \frac{51}{122}, \frac{13}{61})$ $+ \frac{4}{61}\sqrt{110}e^1 \otimes e_2 + \frac{4}{61}\sqrt{110}e^3 \otimes e_5$	{1369, 139, 145689, 14589, 23468, 2348, 25, 256}
931:5	$0, 0, 0, 0, 0, 0, \frac{12}{185}\sqrt{41}e^{12}, \frac{2}{185}\sqrt{41}e^{13}, \frac{2}{185}\sqrt{2337}e^{17} + \frac{2}{185}\sqrt{533}e^{34}$	$(\frac{3}{37}, -\frac{3}{37}, \frac{7}{185}, \frac{8}{185}, \frac{97}{185}, -\frac{67}{185}, 0, \frac{22}{185}, \frac{3}{37})$ $+ \frac{4}{185}\sqrt{779}e^5 \otimes e_9 + \frac{4}{185}\sqrt{902}e^1 \otimes e_6$	{1239, 12489, 13457, 1578, 236789, 24679, 34568, 56}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{1699}\sqrt{30470}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13},$ $\frac{1}{1699}\sqrt{377274}e^{17} + \frac{6}{1699}\sqrt{8587}e^{34}$	$(-\frac{103}{1699}, \frac{305}{1699}, \frac{145}{1699}, -\frac{46}{1699}, \frac{873}{1699}, -\frac{686}{1699}, \frac{202}{1699}, \frac{42}{1699}, \frac{99}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^5 \otimes e_8 + \frac{2}{1699}\sqrt{343203}e^3 \otimes e_6$	{123579, 1246789, 1345, 168, 2389, 24569, 3478, 567}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{3}e^{12}, \frac{9}{38}\sqrt{2}e^{13}, \frac{3}{38}\sqrt{30}e^{17} + \frac{3}{38}\sqrt{30}e^{34}$	$(-\frac{2}{19}, \frac{2}{19}, -\frac{7}{76}, -\frac{1}{76}, \frac{39}{76}, \frac{23}{38}, 0, -\frac{15}{76}, -\frac{2}{19})$ $+ \frac{3}{38}\sqrt{111}e^6 \otimes e_9 + \frac{9}{38}\sqrt{10}e^5 \otimes e_8$	{12359, 12489, 134567, 1678, 23789, 24579, 3468, 56}
931:5	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{815}e^{12}, \frac{1}{128}\sqrt{16626}e^{13},$ $\frac{1}{128}\sqrt{2445}e^{17} + \frac{1}{128}\sqrt{2445}e^{34}$	$(-\frac{25}{256}, \frac{31}{128}, -\frac{45}{256}, \frac{57}{256}, 1, \frac{21}{256}, \frac{37}{256}, -\frac{35}{128}, \frac{3}{64})$ $+ \frac{1}{128}\sqrt{34882}e^5 \otimes e_8$	{12345679, 1234579, 126789, 12789, 135, 1356, 1468, 148, 234689, 23489, 2569, 259, 3678, 378, 4567, 457}
931:5	$0, 0, 0, 0, 0, 0, \frac{3}{1403}\sqrt{6186}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13},$ $\frac{14}{1403}\sqrt{1031}e^{17} + \frac{1}{1403}\sqrt{439206}e^{34}$	$(\frac{44}{1403}, \frac{177}{1403}, -\frac{294}{1403}, \frac{559}{1403}, \frac{781}{1403}, -\frac{472}{1403}, \frac{221}{1403}, -\frac{250}{1403}, \frac{265}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^5 \otimes e_8 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_6$	{1235679, 124789, 1345, 168, 23689, 2459, 3478, 567}
931:5	$0, 0, 0, 0, 0, 0, \frac{11}{357}\sqrt{86}e^{12}, \frac{11}{119}\sqrt{10}e^{13}, \frac{55}{357}\sqrt{6}e^{17} + \frac{22}{357}\sqrt{2}e^{34}$	$(\frac{11}{357}, -\frac{11}{357}, \frac{22}{119}, -\frac{55}{357}, \frac{44}{119}, -\frac{110}{357}, 0, \frac{11}{51}, \frac{11}{357})$ $+ \frac{110}{357}\sqrt{2}e^5 \otimes e_9 + \frac{11}{357}\sqrt{166}e^3 \otimes e_4 + \frac{22}{357}\sqrt{71}e^1 \otimes e_6$	{1239, 12489, 236789, 24679}
931:5	$0, 0, 0, 0, 0, 0, \frac{14}{3013}\sqrt{2497}e^{12}, \frac{14}{3013}\sqrt{5093}e^{13},$ $\frac{70}{3013}\sqrt{11}e^{17} + \frac{14}{3013}\sqrt{6017}e^{34}$	$(-\frac{455}{3013}, \frac{7}{23}, \frac{294}{3013}, -\frac{287}{3013}, \frac{1085}{3013}, \frac{784}{3013}, \frac{462}{3013}, -\frac{7}{131}, \frac{7}{3013})$ $+ \frac{28}{3013}\sqrt{2431}e^2 \otimes e_8 + \frac{770}{3013}\sqrt{3}e^5 \otimes e_9 + \frac{84}{3013}\sqrt{319}e^3 \otimes e_6$	{1239, 15678, 24679, 3458}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{582}e^{12}, \frac{2}{361}\sqrt{2037}e^{13},$ $\frac{2}{361}\sqrt{10185}e^{17} + \frac{10}{361}\sqrt{97}e^{34}$	$(\frac{67}{361}, -\frac{127}{361}, -\frac{7}{361}, \frac{14}{361}, \frac{201}{361}, \frac{39}{361}, -\frac{60}{361}, \frac{60}{361}, \frac{7}{361})$ $+ \frac{18}{361}\sqrt{194}e^5 \otimes e_9 + \frac{8}{361}\sqrt{970}e^1 \otimes e_2$	{134567, 13457, 15678, 1578, 236789, 23789, 24679, 2479}
931:5	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{170}e^{12}, \frac{2}{27}\sqrt{51}e^{13}, \frac{2}{27}\sqrt{34}e^{17} + \frac{2}{27}\sqrt{34}e^{34}$	$(-\frac{4}{27}, \frac{17}{27}, \frac{2}{9}, \frac{1}{9}, -\frac{17}{27}, \frac{5}{27}, \frac{13}{27}, \frac{2}{27}, \frac{1}{3})$ $+ \frac{2}{27}\sqrt{374}e^2 \otimes e_5$	{123689, 12389, 12469, 1249, 1345678, 134578, 1567, 157, 23679, 2379, 246789, 24789, 345, 3456, 568, 58}
931:5	$0, 0, 0, 0, 0, 0, \frac{6}{4229}\sqrt{30470}e^{12}, \frac{2}{4229}\sqrt{1055370}e^{13},$ $\frac{12}{4229}\sqrt{8587}e^{17} + \frac{2}{4229}\sqrt{377274}e^{34}$	$(\frac{620}{4229}, -\frac{1042}{4229}, \frac{930}{4229}, -\frac{732}{4229}, \frac{1111}{4229}, -\frac{551}{4229}, -\frac{422}{4229}, \frac{1550}{4229}, \frac{198}{4229})$ $+ \frac{1662}{4229}e^5 \otimes e_6 + \frac{2}{4229}\sqrt{1218246}e^3 \otimes e_4 + \frac{4}{4229}\sqrt{343203}e^1 \otimes e_2$	{2358, 2368, 245, 246}
931:5	$0, 0, 0, 0, 0, 0, \frac{5}{72}\sqrt{15}e^{12}, \frac{5}{48}\sqrt{34}e^{13}, \frac{5}{144}\sqrt{57}e^{17} + \frac{5}{144}\sqrt{57}e^{34}$	$(-\frac{77}{288}, \frac{71}{144}, \frac{23}{96}, -\frac{9}{32}, \frac{13}{144}, \frac{13}{144}, \frac{65}{288}, -\frac{1}{36}, -\frac{1}{24})$ $+ \frac{5}{48}\sqrt{42}e^3 \otimes e_4 + \frac{5}{72}\sqrt{102}e^2 \otimes e_8$	{123, 1235, 12356, 24567, 2457, 247}
931:5	$0, 0, 0, 0, 0, 0, \frac{13}{1531}\sqrt{1486}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13},$ $\frac{15}{1531}\sqrt{1486}e^{17} + \frac{4}{1531}\sqrt{15603}e^{34}$	$(\frac{113}{1531}, -\frac{13}{1531}, -\frac{111}{1531}, \frac{324}{1531}, \frac{745}{1531}, -\frac{630}{1531}, \frac{100}{1531}, \frac{2}{1531}, \frac{213}{1531})$ $+ \frac{1}{1531}\sqrt{875254}e^5 \otimes e_8 + \frac{2}{1531}\sqrt{291999}e^1 \otimes e_6$	{123459, 1289, 1357, 1478, 2346789, 25679, 368, 456}
931:5	$0, 0, 0, 0, 0, 0, \frac{4}{527}\sqrt{1722}e^{12}, \frac{2}{527}\sqrt{45633}e^{13},$ $\frac{2}{527}\sqrt{20951}e^{17} + \frac{4}{527}\sqrt{861}e^{34}$	$(\frac{25}{527}, \frac{111}{527}, -\frac{219}{527}, \frac{380}{527}, \frac{87}{527}, \frac{87}{527}, \frac{8}{31}, -\frac{194}{527}, \frac{161}{527})$ $+ \frac{4}{527}\sqrt{31570}e^4 \otimes e_8$	{134, 1345, 13456, 1568, 158, 18, 235689, 23589, 2389, 24569, 2459, 249}
931:5	$0, 0, 0, 0, 0, 0, \frac{18}{3209}\sqrt{3505}e^{12}, \frac{18}{3209}\sqrt{1965}e^{13},$ $\frac{72}{3209}\sqrt{195}e^{17} + \frac{36}{3209}\sqrt{10}e^{34}$	$(-\frac{174}{3209}, \frac{531}{3209}, -\frac{105}{3209}, \frac{288}{3209}, \frac{993}{3209}, -\frac{984}{3209}, \frac{357}{3209}, -\frac{279}{3209}, \frac{183}{3209})$ $+ \frac{18}{3209}\sqrt{3565}e^5 \otimes e_9 + \frac{36}{3209}\sqrt{1190}e^2 \otimes e_8 + \frac{72}{3209}\sqrt{395}e^1 \otimes e_6$	{12349, 14578, 2679, 3568}
931:5	$0, 0, 0, 0, 0, 0, \frac{51}{785}\sqrt{6}e^{12}, \frac{17}{785}\sqrt{30}e^{13}, \frac{204}{785}\sqrt{2}e^{17} + \frac{17}{785}\sqrt{298}e^{34}$	$(\frac{119}{785}, -\frac{34}{157}, -\frac{68}{785}, \frac{136}{785}, \frac{357}{785}, -\frac{153}{785}, -\frac{51}{785}, \frac{51}{785}, \frac{68}{785})$ $+ \frac{17}{785}\sqrt{418}e^1 \otimes e_2 + \frac{17}{785}\sqrt{438}e^4 \otimes e_6 + \frac{17}{785}\sqrt{582}e^5 \otimes e_9$	{134578, 1567, 23679, 24789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:6	$0, 0, 0, 0, 0, 0, \frac{22}{1521}\sqrt{595}e^{12}, \frac{4}{1521}\sqrt{18445}e^{13},$ $\frac{7}{1521}\sqrt{12410}e^{27} + \frac{2}{1521}\sqrt{3570}e^{34}$	$(-\frac{314}{1521}, \frac{17}{117}, -\frac{20}{507}, \frac{188}{1521}, \frac{241}{507}, \frac{176}{1521}, -\frac{31}{507}, -\frac{374}{1521}, \frac{128}{1521})$ $+\frac{14}{1521}\sqrt{4845}e^2 \otimes e_8 + \frac{1}{1521}\sqrt{650930}e^5 \otimes e_9$	{123469, 12349, 16789, 1789, 24567, 2457, 3568, 358}
931:6	$0, 0, 0, 0, 0, 0, \frac{8}{793}\sqrt{1749}e^{12}, \frac{4}{793}\sqrt{9805}e^{13},$ $\frac{4}{793}\sqrt{12137}e^{27} + \frac{212}{793}\sqrt{2}e^{34}$	$(-\frac{17}{61}, \frac{220}{793}, \frac{17}{793}, \frac{202}{793}, \frac{308}{793}, -\frac{116}{793}, -\frac{1}{793}, -\frac{204}{793}, \frac{219}{793})$ $+\frac{424}{793}e^5 \otimes e_6 + \frac{4}{793}\sqrt{25705}e^2 \otimes e_8$	{123459, 123469, 15789, 16789, 2457, 2467, 358, 368}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{432}\sqrt{1135}e^{12}, \frac{1}{108}\sqrt{1135}e^{13},$ $\frac{1}{432}\sqrt{18614}e^{27} + \frac{1}{144}\sqrt{5902}e^{34}$	$(\frac{5}{432}, \frac{1}{108}, \frac{55}{108}, -\frac{139}{864}, \frac{5}{9}, -\frac{289}{864}, \frac{1}{48}, \frac{175}{864}, \frac{13}{432})$ $+\frac{1}{432}\sqrt{87395}e^5 \otimes e_9 + \frac{1}{54}\sqrt{1362}e^3 \otimes e_6$	{1239, 124689, 1379, 146789, 234578, 2567, 3458, 56}
931:6	$0, 0, 0, 0, 0, 0, \frac{20}{369}\sqrt{5}e^{12}, \frac{20}{369}\sqrt{70}e^{13}, \frac{10}{369}\sqrt{305}e^{27} + \frac{10}{369}\sqrt{165}e^{34}$	$(-\frac{8}{369}, -\frac{13}{369}, \frac{12}{41}, -\frac{142}{369}, \frac{24}{41}, \frac{54}{369}, -\frac{7}{123}, \frac{100}{369}, -\frac{34}{369})$ $+\frac{10}{123}\sqrt{85}e^3 \otimes e_4 + \frac{20}{369}\sqrt{215}e^5 \otimes e_9$	{23689, 2389, 2469, 249, 36789, 3789, 4679, 479}
931:6	$0, 0, 0, 0, 0, 0, \frac{3}{464}\sqrt{1687}e^{12}, \frac{1}{116}\sqrt{1446}e^{13},$ $\frac{1}{464}\sqrt{16870}e^{27} + \frac{1}{464}\sqrt{76638}e^{34}$	$(\frac{63}{464}, -\frac{5}{116}, -\frac{129}{928}, \frac{175}{928}, \frac{33}{58}, -\frac{307}{928}, \frac{43}{464}, -\frac{3}{928}, \frac{23}{464})$ $+\frac{1}{464}\sqrt{104835}e^5 \otimes e_9 + \frac{5}{116}\sqrt{241}e^4 \otimes e_6$	{123689, 1249, 136789, 1479, 23457, 25678, 345, 568}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{21306}e^{12}, \frac{2}{1335}\sqrt{82410}e^{13},$ $\frac{2}{1335}\sqrt{62310}e^{27} + \frac{2}{1335}\sqrt{40602}e^{34}$	$(-\frac{134}{445}, \frac{104}{445}, \frac{104}{445}, -\frac{6}{89}, \frac{21}{89}, -\frac{29}{445}, -\frac{6}{89}, -\frac{6}{89}, \frac{74}{445})$ $+\frac{134}{445}e^5 \otimes e_6 + \frac{2}{1335}\sqrt{123414}e^2 \otimes e_8 + \frac{2}{1335}\sqrt{81606}e^3 \otimes e_4$	{2457, 2467, 358, 368}
931:6	$0, 0, 0, 0, 0, 0, \frac{4}{23}\sqrt{22}e^{12}, \frac{2}{23}\sqrt{11}e^{13}, \frac{4}{23}\sqrt{22}e^{27} + \frac{2}{23}\sqrt{11}e^{34}$	$(-\frac{3}{23}, \frac{7}{23}, \frac{6}{23}, \frac{5}{23}, -\frac{15}{23}, \frac{4}{23}, \frac{4}{23}, \frac{3}{23}, \frac{11}{23})$ $+\frac{2}{23}\sqrt{209}e^2 \otimes e_5$	{1234689, 123489, 1269, 129, 13456789, 1345789, 15679, 1579, 2367, 237, 24678, 2478, 35, 356, 4568, 458}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{1119}\sqrt{14241}e^{12}, \frac{4}{1119}\sqrt{9870}e^{13},$ $\frac{2}{1119}\sqrt{43005}e^{27} + \frac{2}{1119}\sqrt{10857}e^{34}$	$(-\frac{94}{373}, \frac{59}{373}, \frac{59}{373}, -\frac{35}{373}, \frac{118}{373}, \frac{33}{373}, -\frac{35}{373}, -\frac{35}{373}, \frac{24}{373})$ $+\frac{2}{1119}\sqrt{39621}e^3 \otimes e_4 + \frac{2}{373}\sqrt{3995}e^5 \otimes e_9 + \frac{44}{1119}\sqrt{141}e^2 \otimes e_8$	{24567, 2457, 3568, 358}
931:6	$0, 0, 0, 0, 0, 0, \frac{6}{205}\sqrt{17}e^{12}, \frac{3}{205}\sqrt{986}e^{13}, \frac{6}{205}\sqrt{17}e^{27} + \frac{3}{205}\sqrt{986}e^{34}$	$(-\frac{4}{205}, \frac{27}{205}, -\frac{7}{41}, \frac{17}{41}, \frac{114}{205}, -\frac{68}{205}, \frac{23}{205}, -\frac{39}{205}, \frac{10}{41})$ $+\frac{3}{205}\sqrt{3094}e^4 \otimes e_6 + \frac{3}{205}\sqrt{3094}e^5 \otimes e_8$	{1235679, 124789, 13569, 1489, 2348, 256, 3478, 567}
931:6	$0, 0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1749}e^{12}, \frac{4}{581}\sqrt{9805}e^{13},$ $\frac{4}{581}\sqrt{12137}e^{27} + \frac{212}{581}\sqrt{2}e^{34}$	$(-\frac{221}{581}, \frac{220}{581}, \frac{17}{581}, \frac{202}{581}, \frac{96}{581}, \frac{96}{581}, -\frac{1}{581}, -\frac{204}{581}, \frac{219}{581})$ $+\frac{4}{581}\sqrt{25705}e^2 \otimes e_8$	{1234569, 123459, 12349, 156789, 15789, 1789, 24567, 2457, 247, 3568, 358, 38}
931:6	$0, 0, 0, 0, 0, 0, \frac{22}{2785}\sqrt{1299}e^{12}, \frac{2}{2785}\sqrt{92229}e^{13},$ $\frac{2}{2785}\sqrt{27452}e^{27} + \frac{4}{557}\sqrt{1299}e^{34}$	$(-\frac{312}{2785}, \frac{61}{557}, -\frac{249}{2785}, \frac{547}{2785}, \frac{1164}{2785}, -\frac{319}{2785}, -\frac{7}{2785}, -\frac{561}{2785}, \frac{298}{2785})$ $+\frac{12}{557}\sqrt{433}e^5 \otimes e_9 + \frac{2}{2785}\sqrt{252439}e^4 \otimes e_6 + \frac{2}{2785}\sqrt{449454}e^2 \otimes e_8$	{12369, 14789, 2567, 3458}
931:6	$0, 0, 0, 0, 0, 0, \frac{6}{3505}\sqrt{18942}e^{12}, \frac{168}{3505}\sqrt{77}e^{13},$ $\frac{6}{3505}\sqrt{30877}e^{27} + \frac{18}{3505}\sqrt{77}e^{34}$	$(\frac{492}{3505}, -\frac{333}{3505}, \frac{606}{3505}, -\frac{156}{701}, \frac{1212}{3505}, -\frac{894}{3505}, \frac{159}{3505}, \frac{1098}{3505}, -\frac{174}{3505})$ $+\frac{12}{3505}\sqrt{23254}e^1 \otimes e_6 + \frac{42}{3505}\sqrt{1705}e^3 \otimes e_4 + \frac{6}{3505}\sqrt{69146}e^5 \otimes e_9$	{1239, 12489, 1379, 14789}
931:6	$0, 0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470}e^{12}, \frac{12}{551}\sqrt{2082}e^{13},$ $\frac{2}{551}\sqrt{17697}e^{27} + \frac{2}{551}\sqrt{19779}e^{34}$	$(-\frac{80}{551}, \frac{85}{551}, -\frac{63}{551}, \frac{153}{551}, \frac{1}{551}, \frac{96}{551}, \frac{5}{551}, -\frac{143}{551}, \frac{90}{551})$ $+\frac{2}{551}\sqrt{157885}e^5 \otimes e_8$	{123567, 12357, 124678, 12478, 135, 1356, 1468, 148, 234689, 23489, 2569, 259, 346789, 34789, 5679, 579}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{12}, \frac{1}{93}\sqrt{1482}e^{13}, \frac{2}{93}\sqrt{627}e^{27} + \frac{4}{93}\sqrt{57}e^{34}$	$(-\frac{17}{93}, \frac{7}{31}, \frac{2}{31}, \frac{19}{93}, \frac{46}{93}, -\frac{12}{31}, \frac{4}{93}, -\frac{11}{93}, \frac{25}{93})$ $+\frac{1}{93}\sqrt{3990}e^5 \otimes e_8 + \frac{1}{93}\sqrt{5358}e^2 \otimes e_6$	{123459, 1289, 1345679, 16789, 2378, 2457, 368, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{3}{1813}\sqrt{2782}e^{12}, \frac{12}{1813}\sqrt{1819}e^{13},$ $\frac{36}{1813}\sqrt{214}e^{27} + \frac{3}{1813}\sqrt{129898}e^{34}$	$(\frac{26}{1813}, \frac{306}{1813}, \frac{285}{1813}, \frac{353}{1813}, -\frac{678}{1813}, -\frac{610}{1813}, \frac{332}{1813}, \frac{311}{1813}, \frac{638}{1813})$ $+\frac{3}{1813}\sqrt{167990}e^4 \otimes e_6 + \frac{3}{1813}\sqrt{182542}e^3 \otimes e_5$	{1234, 12568, 1347, 15678, 236789, 24579, 3689, 459}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{464}\sqrt{16870}e^{12}, \frac{1}{464}\sqrt{76638}e^{13},$ $\frac{3}{464}\sqrt{1687}e^{27} + \frac{1}{116}\sqrt{1446}e^{34}$	$(\frac{35}{232}, -\frac{5}{116}, -\frac{129}{928}, \frac{189}{928}, \frac{17}{32}, -\frac{171}{464}, \frac{25}{232}, \frac{11}{928}, \frac{15}{232})$ $+\frac{1}{464}\sqrt{104835}e^1 \otimes e_6 + \frac{5}{116}\sqrt{241}e^5 \otimes e_8$	{123459, 1289, 134579, 1789, 23678, 24567, 368, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{36}{1813}\sqrt{214}e^{12}, \frac{3}{1813}\sqrt{129898}e^{13},$ $\frac{3}{1813}\sqrt{2782}e^{27} + \frac{12}{1813}\sqrt{1819}e^{34}$	$(-\frac{288}{1813}, \frac{306}{1813}, \frac{285}{1813}, \frac{39}{1813}, \frac{960}{1813}, -\frac{678}{1813}, \frac{18}{1813}, -\frac{3}{1813}, \frac{324}{1813})$ $+\frac{3}{1813}\sqrt{167990}e^5 \otimes e_8 + \frac{3}{1813}\sqrt{182542}e^3 \otimes e_6$	{123457, 12678, 1345, 168, 2389, 24569, 3789, 45679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{627}e^{12}, \frac{4}{93}\sqrt{57}e^{13}, \frac{1}{31}\sqrt{190}e^{27} + \frac{1}{93}\sqrt{1482}e^{34}$	$(-\frac{1}{31}, \frac{7}{31}, \frac{2}{31}, \frac{11}{31}, -\frac{12}{31}, -\frac{8}{31}, \frac{6}{31}, \frac{1}{31}, \frac{13}{31})$ $+\frac{1}{93}\sqrt{3990}e^4 \otimes e_6 + \frac{1}{93}\sqrt{5358}e^2 \otimes e_5$	{123689, 1249, 1356789, 14579, 2347, 2678, 345, 568}
931:6	$0, 0, 0, 0, 0, 0, \frac{10}{3229}\sqrt{11077}e^{12}, \frac{4}{3229}\sqrt{15158}e^{13},$ $\frac{2}{3229}\sqrt{475145}e^{27} + \frac{2}{3229}\sqrt{86867}e^{34}$	$(-\frac{278}{3229}, \frac{239}{3229}, \frac{683}{3229}, -\frac{483}{3229}, \frac{1366}{3229}, -\frac{927}{3229}, -\frac{39}{3229}, \frac{405}{3229}, \frac{200}{3229})$ $+\frac{2}{3229}\sqrt{370205}e^3 \otimes e_4 + \frac{2}{3229}\sqrt{620895}e^5 \otimes e_9 + \frac{4}{3229}\sqrt{178981}e^2 \otimes e_6$	{1239, 12489, 13679, 146789}
931:6	$0, 0, 0, 0, 0, 0, \frac{20}{369}\sqrt{5}e^{12}, \frac{20}{369}\sqrt{70}e^{13}, \frac{10}{369}\sqrt{305}e^{27} + \frac{10}{369}\sqrt{165}e^{34}$	$(-\frac{8}{369}, -\frac{13}{369}, -\frac{5}{41}, \frac{11}{369}, \frac{197}{369}, \frac{24}{41}, -\frac{7}{123}, -\frac{53}{369}, -\frac{34}{369})$ $+\frac{10}{123}\sqrt{85}e^5 \otimes e_8 + \frac{20}{369}\sqrt{215}e^6 \otimes e_9$	{1234567, 12678, 13456, 168, 2389, 2459, 3789, 4579}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{449}\sqrt{3470}e^{12}, \frac{6}{449}\sqrt{2082}e^{13},$ $\frac{1}{449}\sqrt{17697}e^{27} + \frac{1}{449}\sqrt{19779}e^{34}$	$(-\frac{40}{449}, \frac{85}{898}, \frac{196}{449}, -\frac{151}{449}, \frac{443}{898}, -\frac{251}{898}, \frac{5}{898}, \frac{156}{449}, \frac{45}{449})$ $+\frac{1}{449}\sqrt{157885}e^3 \otimes e_4 + \frac{347}{449}e^5 \otimes e_6$	{12357, 12367, 124578, 124678, 135, 136, 1458, 1468}
931:6	$0, 0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3}e^{12}, \frac{16}{113}\sqrt{29}e^{13}, \frac{16}{113}\sqrt{3}e^{27} + \frac{16}{113}\sqrt{29}e^{34}$	$(-\frac{6}{113}, \frac{26}{113}, \frac{55}{113}, -\frac{9}{113}, -\frac{73}{113}, \frac{20}{113}, \frac{20}{113}, \frac{49}{113}, \frac{46}{113})$ $+\frac{16}{113}\sqrt{93}e^3 \otimes e_5$	{123679, 12379, 12456789, 1245789, 1369, 139, 145689, 14589, 23468, 2348, 25, 256, 34678, 3478, 567, 57}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{349}\sqrt{31710}e^{12}, \frac{2}{349}\sqrt{2567}e^{13},$ $\frac{2}{349}\sqrt{5738}e^{27} + \frac{4}{349}\sqrt{453}e^{34}$	$(\frac{44}{349}, \frac{23}{349}, \frac{28}{349}, \frac{62}{349}, -\frac{107}{349}, \frac{128}{349}, \frac{67}{349}, \frac{72}{349}, \frac{90}{349})$ $+\frac{1}{349}\sqrt{43790}e^1 \otimes e_5 + \frac{2}{349}\sqrt{12533}e^2 \otimes e_6$	{12349, 1289, 134679, 16789, 23578, 2457, 3568, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{858}e^{12}, \frac{2}{127}\sqrt{429}e^{13}, \frac{2}{127}\sqrt{858}e^{27} + \frac{2}{127}\sqrt{429}e^{34}$	$(-\frac{17}{127}, \frac{33}{127}, \frac{44}{127}, \frac{5}{127}, -\frac{45}{127}, -\frac{34}{127}, \frac{16}{127}, \frac{27}{127}, \frac{49}{127})$ $+\frac{10}{127}\sqrt{78}e^3 \otimes e_6 + \frac{2}{127}\sqrt{2379}e^2 \otimes e_5$	{1239, 124689, 13579, 1456789, 23478, 267, 3458, 56}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{164}\sqrt{610}e^{12}, \frac{1}{82}\sqrt{1342}e^{13}, \frac{1}{82}\sqrt{793}e^{27} + \frac{1}{164}\sqrt{2318}e^{34}$	$(-\frac{9}{41}, \frac{7}{41}, \frac{81}{328}, -\frac{1}{8}, \frac{131}{328}, -\frac{33}{164}, -\frac{2}{41}, \frac{9}{328}, \frac{5}{41})$ $+\frac{1}{164}\sqrt{6405}e^3 \otimes e_4 + \frac{1}{164}\sqrt{6405}e^5 \otimes e_8 + \frac{2}{82}\sqrt{1403}e^2 \otimes e_6$	{2378, 2457, 368, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{4}{3267}\sqrt{31930}e^{12}, \frac{4}{3267}\sqrt{63139}e^{13},$ $\frac{4}{3267}\sqrt{75911}e^{27} + \frac{20}{1089}\sqrt{103}e^{34}$	$(-\frac{622}{3267}, \frac{496}{3267}, \frac{98}{1089}, \frac{76}{3267}, \frac{398}{1089}, -\frac{530}{3267}, -\frac{363}{3267}, -\frac{328}{3267}, \frac{370}{3267})$ $+\frac{4}{1089}\sqrt{14214}e^2 \otimes e_8 + \frac{4}{3267}\sqrt{85593}e^3 \otimes e_6 + \frac{4}{3267}\sqrt{91979}e^5 \otimes e_9$	{1239, 146789, 2567, 3458}
931:6	$0, 0, 0, 0, 0, 0, \frac{6}{3589}\sqrt{24605}e^{12}, \frac{18}{3589}\sqrt{3255}e^{13},$ $\frac{84}{3589}\sqrt{165}e^{27} + \frac{12}{3589}\sqrt{2345}e^{34}$	$(-\frac{141}{3589}, \frac{234}{3589}, -\frac{255}{3589}, \frac{6}{37}, \frac{957}{3589}, -\frac{771}{3589}, \frac{93}{3589}, -\frac{396}{3589}, \frac{327}{3589})$ $+\frac{210}{3589}\sqrt{31}e^1 \otimes e_6 + \frac{42}{3589}\sqrt{1105}e^2 \otimes e_8 + \frac{6}{3589}\sqrt{22505}e^5 \otimes e_9$	{12349, 1789, 24567, 3568}
931:6	$0, 0, 0, 0, 0, 0, \frac{7}{144}\sqrt{230}e^{12}, \frac{1}{144}\sqrt{12558}e^{13}, \frac{23}{144}\sqrt{7}e^{27} + \frac{1}{36}\sqrt{161}e^{34}$	$(\frac{35}{72}, -\frac{5}{36}, -\frac{1}{32}, \frac{23}{96}, -\frac{91}{144}, \frac{53}{288}, \frac{25}{72}, \frac{131}{288}, \frac{5}{24})$ $+\frac{1}{144}\sqrt{37835}e^1 \otimes e_5$	{123469, 12349, 12689, 1289, 134679, 13479, 16789, 1789, 235678, 23578, 24567, 2457, 3568, 358, 45, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{496}\sqrt{27390}e^{12}, \frac{1}{248}\sqrt{25647}e^{13},$ $\frac{3}{248}\sqrt{498}e^{27} + \frac{1}{496}\sqrt{33366}e^{34}$	$(-\frac{55}{248}, \frac{15}{124}, \frac{259}{992}, -\frac{239}{992}, \frac{537}{992}, \frac{41}{496}, -\frac{25}{248}, \frac{39}{992}, \frac{5}{248})$ $+\frac{1}{496}\sqrt{113295}e^3 \otimes e_4 + \frac{1}{496}\sqrt{113295}e^5 \otimes e_8$	{123567, 12357, 124678, 12478, 135, 1356, 1468, 148}
931:6	$0, 0, 0, 0, 0, 0, \frac{6}{1423}\sqrt{5494}e^{12}, \frac{6}{1423}\sqrt{14338}e^{13},$ $\frac{9}{1423}\sqrt{4690}e^{27} + \frac{15}{1423}\sqrt{134}e^{34}$	$(-\frac{427}{1423}, \frac{441}{1423}, \frac{265}{1423}, \frac{190}{1423}, -\frac{338}{1423}, \frac{165}{1423}, \frac{14}{1423}, -\frac{162}{1423}, \frac{455}{1423})$ $+\frac{3}{1423}\sqrt{101170}e^2 \otimes e_8 + \frac{3}{1423}\sqrt{67402}e^3 \otimes e_5$	{123469, 12349, 156789, 15789, 24567, 2457, 368, 38}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{48}\sqrt{33}e^{12}, \frac{1}{12}\sqrt{11}e^{13}, \frac{1}{48}\sqrt{22}e^{27} + \frac{1}{48}\sqrt{286}e^{34}$	$(-\frac{1}{16}, \frac{1}{12}, -\frac{1}{32}, \frac{13}{96}, \frac{1}{3}, -\frac{25}{96}, \frac{1}{48}, -\frac{3}{32}, \frac{5}{48})$ $+\frac{1}{12}\sqrt{22}e^3 \otimes e_6 + \frac{1}{12}\sqrt{22}e^4 \otimes e_8 + \frac{5}{48}\sqrt{11}e^5 \otimes e_9$	{123457, 125678, 1345, 1568, 2389, 2469, 3789, 4679}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{48}\sqrt{33}e^{12}, \frac{1}{12}\sqrt{11}e^{13}, \frac{1}{48}\sqrt{22}e^{27} + \frac{1}{48}\sqrt{286}e^{34}$	$(-\frac{1}{16}, \frac{1}{12}, -\frac{1}{32}, \frac{13}{96}, \frac{1}{3}, -\frac{25}{96}, \frac{1}{48}, -\frac{3}{32}, \frac{5}{48})$ $+\frac{1}{12}\sqrt{22}e^3 \otimes e_6 - \frac{1}{12}\sqrt{22}e^4 \otimes e_8 + \frac{5}{48}\sqrt{11}e^5 \otimes e_9$	{123457, 125678, 1345, 1568, 2389, 2469, 3789, 4679}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{567}\sqrt{21306}e^{12}, \frac{1}{567}\sqrt{82410}e^{13},$ $\frac{1}{567}\sqrt{62310}e^{27} + \frac{1}{567}\sqrt{40602}e^{34}$	$(-\frac{67}{189}, \frac{52}{189}, \frac{52}{189}, -\frac{5}{63}, \frac{19}{189}, \frac{19}{189}, -\frac{5}{63}, -\frac{5}{63}, \frac{37}{189})$ $+\frac{1}{567}\sqrt{123414}e^2 \otimes e_8 + \frac{1}{567}\sqrt{81606}e^3 \otimes e_4$	{24567, 2457, 247, 3568, 358, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:6	$0, 0, 0, 0, 0, 0, \frac{23}{144}\sqrt{7}e^{12}, \frac{1}{36}\sqrt{161}e^{13}, \frac{7}{144}\sqrt{230}e^{27} + \frac{1}{144}\sqrt{12558}e^{34}$	$(\frac{23}{144}, -\frac{5}{36}, -\frac{1}{32}, -\frac{25}{288}, \frac{1}{288}, \frac{53}{48}, \frac{1}{288}, -\frac{17}{144})$ $+ \frac{1}{144}\sqrt{37835}e^5 \otimes e_9$	{123689, 12389, 12469, 1249, 136789, 13789, 14679, 1479, 234567, 23457, 25678, 2578, 345, 3456, 568, 58}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{225}\sqrt{2759}e^{12}, \frac{8}{225}\sqrt{178}e^{13}, \frac{2}{225}\sqrt{1157}e^{27} + \frac{2}{225}\sqrt{267}e^{34}$	$(-\frac{31}{225}, \frac{7}{225}, \frac{4}{25}, -\frac{53}{225}, \frac{94}{225}, \frac{8}{25}, -\frac{8}{75}, \frac{1}{45}, -\frac{17}{225})$ $+ \frac{1}{225}\sqrt{9701}e^6 \otimes e_9 + \frac{1}{75}\sqrt{1513}e^3 \otimes e_4 + \frac{1}{75}\sqrt{1513}e^5 \otimes e_8$	{123567, 124678, 1356, 1468}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{551}\sqrt{17697}e^{12}, \frac{2}{551}\sqrt{19779}e^{13}, \frac{4}{551}\sqrt{3470}e^{27} + \frac{12}{551}\sqrt{2082}e^{34}$	$(\frac{102}{551}, \frac{85}{551}, -\frac{63}{551}, \frac{335}{551}, -\frac{359}{551}, \frac{96}{551}, \frac{187}{551}, \frac{39}{551}, \frac{272}{551})$ $+ \frac{2}{551}\sqrt{157885}e^4 \otimes e_5$	{123468, 12348, 125, 1256, 134678, 13478, 1567, 157, 235679, 23579, 246789, 24789, 3569, 359, 4689, 489}
931:6	$0, 0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470}e^{12}, \frac{12}{551}\sqrt{2082}e^{13}, \frac{2}{551}\sqrt{17697}e^{27} + \frac{2}{551}\sqrt{19779}e^{34}$	$(-\frac{80}{551}, \frac{85}{551}, \frac{392}{551}, -\frac{302}{551}, \frac{96}{551}, \frac{96}{551}, \frac{5}{551}, \frac{312}{551}, \frac{90}{551})$ $+ \frac{2}{551}\sqrt{157885}e^3 \otimes e_4$	{123567, 12357, 1237, 1245678, 124578, 12478, 13, 135, 1356, 14568, 1458, 148}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{349}\sqrt{5738}e^{12}, \frac{4}{349}\sqrt{453}e^{13}, \frac{1}{349}\sqrt{31710}e^{27} + \frac{2}{349}\sqrt{2567}e^{34}$	$(-\frac{14}{349}, \frac{23}{349}, \frac{28}{349}, \frac{4}{349}, \frac{183}{349}, \frac{128}{349}, \frac{9}{349}, \frac{14}{349}, \frac{32}{349})$ $+ \frac{1}{349}\sqrt{43790}e^5 \otimes e_9 + \frac{2}{349}\sqrt{12533}e^2 \otimes e_6$	{12389, 1249, 136789, 14679, 23457, 2578, 3456, 568}
931:6	$0, 0, 0, 0, 0, 0, \frac{10}{369}\sqrt{305}e^{12}, \frac{10}{369}\sqrt{165}e^{13}, \frac{20}{369}\sqrt{5}e^{27} + \frac{20}{369}\sqrt{70}e^{34}$	$(\frac{122}{369}, -\frac{13}{369}, -\frac{5}{41}, \frac{47}{123}, \frac{128}{369}, -\frac{109}{369}, \frac{109}{369}, \frac{77}{369}, \frac{32}{123})$ $+ \frac{10}{123}\sqrt{85}e^4 \otimes e_6 + \frac{20}{369}\sqrt{215}e^1 \otimes e_5$	{1234, 1268, 1347, 1678, 2356789, 24579, 35689, 459}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778}e^{12}, \frac{2}{215}\sqrt{1463}e^{13}, \frac{1}{215}\sqrt{8778}e^{27} + \frac{2}{215}\sqrt{1463}e^{34}$	$(\frac{66}{215}, -\frac{39}{215}, -\frac{17}{215}, \frac{1}{43}, \frac{121}{215}, -\frac{67}{215}, \frac{27}{215}, \frac{49}{215}, -\frac{12}{215})$ $+ \frac{2}{215}\sqrt{6251}e^1 \otimes e_6 + \frac{2}{215}\sqrt{6251}e^5 \otimes e_9$	{1239, 12489, 1379, 14789, 2345678, 2567, 34568, 56}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{464}\sqrt{16870}e^{12}, \frac{1}{464}\sqrt{76638}e^{13}, \frac{3}{464}\sqrt{1687}e^{27} + \frac{1}{116}\sqrt{1446}e^{34}$	$(\frac{35}{232}, -\frac{5}{116}, \frac{271}{928}, -\frac{211}{928}, -\frac{171}{464}, \frac{93}{928}, \frac{25}{928}, \frac{411}{928}, \frac{15}{232})$ $+ \frac{1}{464}\sqrt{104835}e^1 \otimes e_5 + \frac{5}{116}\sqrt{241}e^3 \otimes e_4$	{235678, 23578, 24567, 2457, 3568, 358, 45, 456}
931:6	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{534}e^{12}, \frac{4}{111}\sqrt{89}e^{13}, \frac{2}{111}\sqrt{534}e^{27} + \frac{4}{111}\sqrt{89}e^{34}$	$(\frac{4}{37}, \frac{10}{111}, \frac{14}{111}, \frac{6}{37}, 1, -\frac{67}{111}, \frac{22}{111}, \frac{26}{111}, \frac{32}{111})$ $+ \frac{178}{111}e^5 \otimes e_6$	{12359, 12369, 124589, 124689, 13579, 13679, 145789, 146789, 234578, 234678, 257, 267, 3458, 3468, 5, 6}
931:6	$0, 0, 0, 0, 0, 0, \frac{21}{1913}\sqrt{902}e^{12}, \frac{2}{1913}\sqrt{133045}e^{13}, \frac{14}{1913}\sqrt{2255}e^{27} + \frac{2}{1913}\sqrt{67199}e^{34}$	$(-\frac{104}{1913}, \frac{241}{1913}, -\frac{106}{1913}, \frac{484}{1913}, -\frac{555}{1913}, \frac{186}{1913}, \frac{137}{1913}, -\frac{210}{1913}, \frac{378}{1913})$ $+ \frac{1}{1913}\sqrt{668382}e^1 \otimes e_5 + \frac{2}{1913}\sqrt{222343}e^2 \otimes e_8$	{123469, 12349, 16789, 1789, 24567, 2457, 3568, 358}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{432}\sqrt{18614}e^{12}, \frac{1}{144}\sqrt{5902}e^{13}, \frac{1}{432}\sqrt{1135}e^{27} + \frac{1}{108}\sqrt{1135}e^{34}$	$(\frac{41}{216}, \frac{1}{108}, \frac{55}{288}, \frac{5}{288}, -\frac{145}{432}, -\frac{289}{864}, \frac{43}{216}, \frac{329}{864}, \frac{5}{24})$ $+ \frac{1}{432}\sqrt{87395}e^1 \otimes e_5 + \frac{1}{54}\sqrt{1362}e^3 \otimes e_6$	{1239, 124689, 1379, 146789, 234578, 2567, 3458, 56}
931:6	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{12}, \frac{1}{93}\sqrt{1482}e^{13}, \frac{2}{93}\sqrt{627}e^{27} + \frac{4}{93}\sqrt{57}e^{34}$	$(-\frac{17}{93}, \frac{7}{31}, \frac{41}{93}, -\frac{16}{93}, \frac{12}{31}, \frac{11}{93}, \frac{4}{93}, \frac{8}{31}, \frac{25}{93})$ $+ \frac{1}{93}\sqrt{3990}e^3 \otimes e_4 + \frac{1}{93}\sqrt{5358}e^2 \otimes e_5$	{23678, 2378, 2467, 247, 3568, 358, 45, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{801}\sqrt{84254}e^{12}, \frac{1}{801}\sqrt{33538}e^{13} + \frac{5}{801}\sqrt{818}e^{24}, \frac{1}{801}\sqrt{76074}e^{17}$	$(-\frac{56}{267}, \frac{247}{801}, \frac{253}{801}, -\frac{18}{89}, \frac{320}{801}, -\frac{52}{267}, \frac{79}{801}, \frac{85}{801}, -\frac{1}{9})$ $+ \frac{16}{801}\sqrt{818}e^2 \otimes e_4 + \frac{1}{801}\sqrt{205318}e^5 \otimes e_9 + \frac{5}{267}\sqrt{818}e^3 \otimes e_6$	{1239, 13457, 2679, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{35}e^{12}, \frac{6}{41}\sqrt{7}e^{13} + \frac{2}{41}\sqrt{105}e^{24}, \frac{2}{41}\sqrt{77}e^{17}$	$(-\frac{3}{41}, \frac{1}{41}, \frac{13}{41}, \frac{9}{41}, -\frac{13}{41}, \frac{4}{41}, -\frac{2}{41}, \frac{10}{41}, -\frac{5}{41})$ $+ \frac{2}{41}\sqrt{119}e^2 \otimes e_5 + \frac{4}{41}\sqrt{35}e^4 \otimes e_9$	{123689, 12389, 1345678, 134578, 26789, 2789, 4568, 458}
931:7	$0, 0, 0, 0, 0, 0, \frac{8}{2879}\sqrt{18910}e^{12}, \frac{4}{2879}\sqrt{46482}e^{13} + \frac{12}{2879}\sqrt{366}e^{24}, \frac{4}{2879}\sqrt{42090}e^{17}$	$(\frac{70}{2879}, \frac{460}{2879}, -\frac{126}{2879}, -\frac{516}{2879}, \frac{920}{2879}, -\frac{906}{2879}, \frac{530}{2879}, -\frac{56}{2879}, \frac{600}{2879})$ $+ \frac{12}{2879}\sqrt{15738}e^1 \otimes e_6 + \frac{4}{2879}\sqrt{81130}e^5 \otimes e_8 + \frac{8}{2879}\sqrt{24339}e^2 \otimes e_4$	{12359, 13457, 25679, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{345}e^{12}, \frac{2}{79}\sqrt{299}e^{13} + \frac{2}{79}\sqrt{345}e^{24}, \frac{6}{79}\sqrt{46}e^{17}$	$(-\frac{11}{79}, \frac{17}{79}, \frac{22}{79}, -\frac{6}{79}, \frac{41}{79}, -\frac{29}{79}, \frac{6}{79}, \frac{11}{79}, -\frac{5}{79})$ $+ \frac{2}{79}\sqrt{874}e^2 \otimes e_6 + \frac{8}{79}\sqrt{46}e^5 \otimes e_9$	{12389, 1249, 1345678, 1567, 23479, 2789, 356, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:7	$0, 0, 0, 0, 0, 0, \frac{15}{1531}\sqrt{1486}e^{12}, \frac{1}{1531}\sqrt{646410}e^{13} + \frac{4}{1531}\sqrt{15603}e^{24},$ $\frac{13}{1531}\sqrt{1486}e^{17}$	$(\frac{113}{1531}, \frac{99}{1531}, \frac{310}{1531}, \frac{324}{1531}, -\frac{630}{1531}, -\frac{433}{1531}, \frac{212}{1531}, \frac{423}{1531}, \frac{325}{1531})$ $+ \frac{1}{1531}\sqrt{875254}e^3 \otimes e_6 + \frac{2}{1531}\sqrt{291999}e^1 \otimes e_5$	{1239, 124689, 1347, 1678, 2345789, 25679, 358, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{1398}e^{12}, \frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{193}\sqrt{12815}e^{24},$ $\frac{1}{386}\sqrt{50794}e^{17}$	$(-\frac{5}{386}, -\frac{127}{772}, \frac{101}{386}, \frac{319}{772}, \frac{80}{193}, -\frac{73}{386}, -\frac{137}{772}, \frac{48}{193}, -\frac{147}{772})$ $+ \frac{1}{193}\sqrt{26329}e^4 \otimes e_9 + \frac{233}{386}e^5 \otimes e_6$	{12457, 12467, 159, 169, 2345, 2346, 3579, 3679}
931:7	$0, 0, 0, 0, 0, 0, \frac{4}{4029}\sqrt{111070}e^{12}, \frac{2}{4029}\sqrt{314443}e^{13} + \frac{2}{4029}\sqrt{141710}e^{24},$ $\frac{2}{4029}\sqrt{472622}e^{17}$	$(\frac{308}{4029}, -\frac{27}{1343}, -\frac{458}{4029}, -\frac{23}{1343}, \frac{1301}{4029}, -\frac{847}{4029}, \frac{227}{4029}, -\frac{50}{1343}, \frac{535}{4029})$ $+ \frac{20}{4029}\sqrt{3830}e^5 \otimes e_9 + \frac{4}{4029}\sqrt{109921}e^2 \otimes e_6 + \frac{4}{4029}\sqrt{151285}e^1 \otimes e_3$	{1249, 1567, 23479, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{6}{41}\sqrt{7}e^{13} + \frac{2}{41}\sqrt{35}e^{24}, \frac{2}{41}\sqrt{77}e^{17}$	$(\frac{7}{41}, \frac{1}{41}, -\frac{7}{41}, -\frac{1}{41}, -\frac{13}{41}, \frac{4}{41}, \frac{8}{41}, 0, \frac{15}{41})$ $+ \frac{2}{41}\sqrt{119}e^2 \otimes e_5 + \frac{4}{41}\sqrt{35}e^1 \otimes e_3$	{12469, 1249, 1567, 157, 234679, 23479, 35, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{110}{3269}\sqrt{15}e^{12}, \frac{66}{3269}\sqrt{87}e^{13} + \frac{22}{3269}\sqrt{3405}e^{24},$ $\frac{66}{3269}\sqrt{193}e^{17}$	$(-\frac{187}{3269}, -\frac{11}{3269}, \frac{517}{3269}, \frac{341}{3269}, \frac{1056}{3269}, -\frac{737}{3269}, -\frac{198}{3269}, \frac{330}{3269}, -\frac{55}{467})$ $+ \frac{440}{3269}\sqrt{6}e^5 \otimes e_8 + \frac{44}{3269}\sqrt{915}e^4 \otimes e_9 + \frac{66}{3269}\sqrt{331}e^2 \otimes e_6$	{12389, 134678, 2789, 468}
931:7	$0, 0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13} + \frac{1}{1403}\sqrt{439206}e^{24},$ $\frac{3}{1403}\sqrt{6186}e^{17}$	$(\frac{44}{1403}, \frac{35}{1403}, \frac{550}{1403}, \frac{559}{1403}, -\frac{481}{1403}, -\frac{472}{1403}, \frac{79}{1403}, \frac{594}{1403}, \frac{123}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^3 \otimes e_5 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_6$	{123479, 1256789, 136, 1458, 23689, 2459, 3478, 567}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{128}\sqrt{16626}e^{13} + \frac{1}{128}\sqrt{2445}e^{24},$ $\frac{1}{64}\sqrt{815}e^{17}$	$(-\frac{25}{256}, \frac{9}{32}, \frac{77}{128}, \frac{57}{256}, -\frac{43}{64}, \frac{21}{128}, \frac{47}{256}, \frac{129}{256}, \frac{11}{128})$ $+ \frac{1}{128}\sqrt{34882}e^3 \otimes e_5$	{123679, 12379, 12456789, 1245789, 134, 1346, 1568, 158, 234689, 23489, 2569, 259, 3678, 378, 4567, 457}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1403}\sqrt{439206}e^{12}, \frac{1}{1403}\sqrt{476322}e^{13} + \frac{14}{1403}\sqrt{1031}e^{24},$ $\frac{3}{1403}\sqrt{6186}e^{17}$	$(-\frac{267}{1403}, \frac{657}{1403}, \frac{550}{1403}, -\frac{374}{1403}, -\frac{481}{1403}, \frac{150}{1403}, \frac{390}{1403}, \frac{283}{1403}, \frac{123}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^3 \otimes e_5 + \frac{2}{1403}\sqrt{320641}e^2 \otimes e_4$	{123, 1236, 134679, 13479, 2567, 257, 4569, 459}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{347}\sqrt{1554}e^{12}, \frac{1}{347}\sqrt{26418}e^{13} + \frac{1}{347}\sqrt{1554}e^{24},$ $\frac{1}{347}\sqrt{24346}e^{17}$	$(-\frac{56}{347}, \frac{45}{347}, \frac{143}{347}, \frac{42}{347}, \frac{192}{347}, \frac{116}{347}, -\frac{11}{347}, \frac{87}{347}, -\frac{67}{347})$ $+ \frac{1}{347}\sqrt{80290}e^3 \otimes e_6 + \frac{3}{347}\sqrt{8806}e^5 \otimes e_9$	{12357, 1245678, 1349, 1689, 23458, 256, 3789, 4679}
931:7	$0, 0, 0, 0, 0, 0, \frac{16}{237}\sqrt{5}e^{12}, \frac{8}{237}\sqrt{30}e^{13} + \frac{8}{237}\sqrt{94}e^{24}, \frac{8}{237}\sqrt{106}e^{17}$	$(\frac{14}{237}, -\frac{12}{79}, \frac{2}{79}, \frac{56}{237}, \frac{28}{79}, -\frac{50}{237}, -\frac{22}{237}, \frac{20}{237}, -\frac{8}{237})$ $+ \frac{16}{237}\sqrt{41}e^4 \otimes e_9 + \frac{8}{237}\sqrt{142}e^1 \otimes e_6 + \frac{8}{79}\sqrt{14}e^5 \otimes e_8$	{1289, 1478, 236789, 3468}
931:7	$0, 0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{14491}e^{13} + \frac{2}{177}\sqrt{7414}e^{24},$ $\frac{2}{531}\sqrt{15502}e^{17}$	$(\frac{112}{531}, -\frac{83}{531}, \frac{46}{177}, \frac{37}{59}, -\frac{341}{531}, \frac{95}{531}, \frac{29}{531}, \frac{250}{531}, \frac{47}{177})$ $+ \frac{4}{531}\sqrt{36733}e^4 \otimes e_5$	{1235678, 123578, 12467, 1247, 134689, 13489, 1569, 159, 234, 2346, 2568, 258, 35679, 3579, 46789, 4789}
931:7	$0, 0, 0, 0, 0, 0, \frac{12}{191}\sqrt{5}e^{12}, \frac{20}{191}\sqrt{21}e^{13} + \frac{4}{191}\sqrt{130}e^{24}, \frac{2}{191}\sqrt{510}e^{17}$	$(-\frac{21}{191}, \frac{87}{382}, \frac{28}{191}, -\frac{73}{382}, \frac{87}{191}, -\frac{52}{191}, \frac{45}{382}, \frac{7}{191}, \frac{3}{382})$ $+ \frac{10}{191}\sqrt{106}e^3 \otimes e_6 + \frac{2}{191}\sqrt{1510}e^2 \otimes e_4 + \frac{2}{191}\sqrt{2910}e^5 \otimes e_8$	{126789, 1468, 2389, 3478}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12}, \frac{2}{131}\sqrt{851}e^{13} + \frac{6}{131}\sqrt{74}e^{24}, \frac{12}{131}\sqrt{37}e^{17}$	$(\frac{42}{131}, -\frac{33}{131}, -\frac{32}{131}, \frac{43}{131}, -\frac{31}{131}, \frac{15}{131}, \frac{9}{131}, \frac{10}{131}, \frac{51}{131})$ $+ \frac{2}{131}\sqrt{1702}e^4 \otimes e_5 + \frac{2}{131}\sqrt{2590}e^1 \otimes e_3$	{12469, 1249, 1567, 157, 234679, 23479, 35, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{443}\sqrt{9794}e^{12}, \frac{2}{443}\sqrt{7055}e^{13} + \frac{2}{443}\sqrt{249}e^{24}, \frac{8}{443}\sqrt{913}e^{17}$	$(\frac{63}{443}, -\frac{79}{443}, -\frac{103}{443}, \frac{39}{443}, \frac{213}{443}, \frac{42}{443}, -\frac{16}{443}, -\frac{40}{443}, \frac{47}{443})$ $+ \frac{2}{443}\sqrt{19090}e^1 \otimes e_3 + \frac{6}{443}\sqrt{1577}e^5 \otimes e_9$	{12469, 1249, 1567, 157, 234679, 23479, 35, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{147}\sqrt{1630}e^{12}, \frac{1}{441}\sqrt{25591}e^{13} + \frac{1}{441}\sqrt{6683}e^{24},$ $\frac{2}{441}\sqrt{9454}e^{17}$	$(\frac{52}{441}, \frac{52}{441}, -\frac{37}{147}, -\frac{37}{147}, \frac{40}{441}, \frac{40}{441}, \frac{104}{441}, -\frac{59}{441}, \frac{52}{147})$ $+ \frac{1}{147}\sqrt{8313}e^1 \otimes e_3 + \frac{1}{63}\sqrt{1141}e^2 \otimes e_4$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{147}\sqrt{1630}e^{12}, \frac{1}{441}\sqrt{25591}e^{13} + \frac{1}{441}\sqrt{6683}e^{24},$ $\frac{2}{441}\sqrt{9454}e^{17}$	$(\frac{52}{441}, \frac{52}{441}, -\frac{37}{147}, -\frac{37}{147}, \frac{40}{441}, \frac{40}{441}, \frac{104}{441}, -\frac{59}{441}, \frac{52}{147})$ $+ \frac{1}{147}\sqrt{8313}e^1 \otimes e_3 - \frac{1}{63}\sqrt{1141}e^2 \otimes e_4$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{137882}e^{12}, \frac{4}{1445}\sqrt{18449}e^{13} + \frac{1}{1445}\sqrt{444718}e^{24},$ $\frac{1}{1445}\sqrt{448602}e^{17}$	$(-\frac{144}{1445}, \frac{2}{289}, \frac{693}{1445}, \frac{539}{1445}, -\frac{432}{1445}, \frac{168}{1445}, -\frac{134}{1445}, \frac{549}{1445}, -\frac{278}{1445})$ $+ \frac{1}{1445}\sqrt{1314734}e^3 \otimes e_9 + \frac{4}{289}\sqrt{2913}e^4 \otimes e_5$	{123467, 12347, 14689, 1489, 23568, 2358, 5679, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{342}\sqrt{16926}e^{12}, \frac{1}{171}\sqrt{186}e^{13} + \frac{1}{114}\sqrt{465}e^{24},$ $\frac{1}{171}\sqrt{3813}e^{17}$	$(-\frac{29}{684}, \frac{17}{114}, \frac{47}{684}, -\frac{7}{57}, \frac{115}{342}, -\frac{215}{684}, \frac{73}{684}, \frac{1}{38}, \frac{11}{171})$ $+ \frac{1}{171}\sqrt{4278}e^2 \otimes e_4 + \frac{1}{38}\sqrt{310}e^1 \otimes e_6 + \frac{5}{342}\sqrt{651}e^5 \otimes e_9$	{1239, 13457, 2679, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{3}e^{13} + \frac{6}{17}\sqrt{5}e^{24}, \frac{6}{17}\sqrt{2}e^{17}$	$(-\frac{1}{17}, \frac{7}{17}, \frac{6}{17}, -\frac{2}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{6}{17}, \frac{5}{17}, \frac{5}{17})$ $+ \frac{6}{17}\sqrt{14}e^2 \otimes e_5$	{123689, 12389, 12469, 1249, 1345678, 134578, 1567, 157, 234679, 23479, 26789, 2789, 35, 356, 4568, 458}
931:7	$0, 0, 0, 0, 0, 0, \frac{10}{361}\sqrt{97}e^{12}, \frac{2}{361}\sqrt{2037}e^{13} + \frac{2}{361}\sqrt{10185}e^{24},$ $\frac{2}{361}\sqrt{582}e^{17}$	$(-\frac{13}{361}, \frac{71}{361}, \frac{18}{361}, -\frac{66}{361}, \frac{199}{361}, -\frac{123}{361}, \frac{58}{361}, \frac{5}{361}, \frac{45}{361})$ $+ \frac{18}{361}\sqrt{194}e^2 \otimes e_6 + \frac{8}{361}\sqrt{970}e^5 \otimes e_8$	{123459, 1289, 13567, 14678, 23789, 24579, 3468, 56}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{1398}e^{12}, \frac{2}{539}\sqrt{26795}e^{13} + \frac{4}{539}\sqrt{12815}e^{24},$ $\frac{2}{539}\sqrt{50794}e^{17}$	$(-\frac{10}{539}, -\frac{127}{539}, \frac{202}{539}, \frac{29}{49}, \frac{87}{539}, \frac{87}{539}, -\frac{137}{539}, \frac{192}{539}, -\frac{3}{11})$ $+ \frac{4}{539}\sqrt{26329}e^4 \otimes e_9$	{124567, 12457, 1247, 1569, 159, 19, 234, 2345, 23456, 35679, 3579, 379}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{714}e^{12}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{210}e^{24}, \frac{3}{49}\sqrt{42}e^{17}$	$(\frac{1}{49}, \frac{12}{49}, \frac{2}{49}, -\frac{9}{49}, -\frac{20}{49}, \frac{5}{49}, \frac{13}{49}, \frac{3}{49}, \frac{2}{7})$ $+ \frac{1}{49}\sqrt{798}e^2 \otimes e_4 + \frac{5}{49}\sqrt{42}e^1 \otimes e_5$	{12369, 1239, 13467, 1347, 25679, 2579, 45, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{177}\sqrt{7414}e^{12}, \frac{2}{531}\sqrt{14491}e^{13} + \frac{4}{531}\sqrt{1685}e^{24},$ $\frac{2}{531}\sqrt{15502}e^{17}$	$(-\frac{106}{531}, \frac{353}{531}, \frac{46}{177}, -\frac{107}{177}, \frac{95}{531}, \frac{95}{531}, \frac{247}{531}, \frac{32}{531}, \frac{47}{177})$ $+ \frac{4}{531}\sqrt{36733}e^2 \otimes e_4$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{12}{3515}\sqrt{2222}e^{12}, \frac{12}{3515}\sqrt{9977}e^{13} + \frac{12}{3515}\sqrt{77}e^{24},$ $\frac{36}{3515}\sqrt{715}e^{17}$	$(-\frac{174}{3515}, \frac{68}{3515}, \frac{512}{3515}, \frac{54}{703}, \frac{226}{3515}, -\frac{966}{3515}, -\frac{106}{3515}, \frac{338}{3515}, -\frac{56}{703})$ $+ \frac{12}{3515}\sqrt{12562}e^3 \otimes e_9 + \frac{12}{3515}\sqrt{9383}e^5 \otimes e_8 + \frac{132}{3515}\sqrt{113}e^1 \otimes e_6$	{1289, 1357, 245679, 3468}
931:7	$0, 0, 0, 0, 0, 0, \frac{22}{2889}\sqrt{1426}e^{12}, \frac{2}{963}\sqrt{7843}e^{13} + \frac{10}{2889}\sqrt{7843}e^{24},$ $\frac{8}{2889}\sqrt{15686}e^{17}$	$(-\frac{427}{2889}, \frac{583}{2889}, \frac{167}{2889}, -\frac{281}{963}, \frac{1166}{2889}, \frac{385}{963}, \frac{52}{963}, -\frac{260}{2889}, -\frac{271}{2889})$ $+ \frac{20}{963}\sqrt{713}e^5 \otimes e_8 + \frac{2}{2889}\sqrt{594642}e^2 \otimes e_4 + \frac{2}{2889}\sqrt{633857}e^6 \otimes e_9$	{1289, 14678, 23789, 3468}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1497}\sqrt{6230}e^{12}, \frac{2}{1497}\sqrt{99057}e^{13} + \frac{1}{1497}\sqrt{138306}e^{24},$ $\frac{1}{1497}\sqrt{140798}e^{17}$	$(-\frac{102}{499}, \frac{328}{1497}, \frac{113}{499}, -\frac{295}{1497}, \frac{656}{1497}, \frac{130}{1497}, \frac{22}{1497}, \frac{11}{499}, -\frac{284}{1497})$ $+ \frac{1}{1497}\sqrt{656642}e^3 \otimes e_9 + \frac{2}{1497}\sqrt{163849}e^5 \otimes e_8 + \frac{2}{1497}\sqrt{97811}e^2 \otimes e_4$	{12689, 1289, 3468, 348}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{102}e^{12}, \frac{2}{15}\sqrt{34}e^{13} + \frac{1}{45}\sqrt{102}e^{24}, \frac{1}{45}\sqrt{1122}e^{17}$	$(-\frac{14}{45}, \frac{2}{9}, \frac{11}{15}, \frac{1}{5}, \frac{8}{45}, \frac{45}{45}, -\frac{4}{45}, \frac{19}{45}, -\frac{2}{5})$ $+ \frac{1}{45}\sqrt{3774}e^3 \otimes e_9$	{123567, 12357, 1237, 15689, 1589, 189, 234568, 23458, 2348, 45679, 4579, 479}
931:7	$0, 0, 0, 0, 0, 0, \frac{4}{539}\sqrt{12815}e^{12}, \frac{2}{539}\sqrt{26795}e^{13} + \frac{2}{539}\sqrt{1398}e^{24},$ $\frac{2}{539}\sqrt{50794}e^{17}$	$(\frac{216}{539}, -\frac{127}{539}, -\frac{250}{539}, \frac{93}{539}, \frac{87}{539}, \frac{87}{539}, \frac{89}{539}, -\frac{34}{539}, \frac{305}{539})$ $+ \frac{4}{539}\sqrt{26329}e^1 \otimes e_3$	{12569, 1259, 129, 14567, 1457, 147, 235679, 23579, 2379, 34, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{20}{1709}\sqrt{910}e^{12}, \frac{60}{1709}\sqrt{105}e^{13} + \frac{315}{1709}\sqrt{10}e^{24},$ $\frac{5}{1709}\sqrt{1330}e^{17}$	$(\frac{170}{1709}, -\frac{200}{1709}, -\frac{57}{1709}, \frac{313}{1709}, \frac{988}{1709}, -\frac{562}{1709}, -\frac{30}{1709}, \frac{113}{1709}, \frac{140}{1709})$ $+ \frac{35}{1709}\sqrt{1030}e^4 \otimes e_6 + \frac{5}{1709}\sqrt{58030}e^5 \otimes e_8$	{1234579, 126789, 1356, 148, 23689, 2459, 3478, 567}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{377274}e^{12}, \frac{1}{1699}\sqrt{1055370}e^{13} + \frac{6}{1699}\sqrt{8587}e^{24},$ $\frac{3}{1699}\sqrt{30470}e^{17}$	$(-\frac{103}{1699}, \frac{181}{1699}, \frac{238}{1699}, -\frac{46}{1699}, \frac{966}{1699}, -\frac{593}{1699}, \frac{78}{1699}, \frac{135}{1699}, -\frac{25}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^3 \otimes e_6 + \frac{2}{1699}\sqrt{343203}e^5 \otimes e_8$	{1234579, 126789, 135, 1468, 2389, 24569, 3478, 567}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{102}e^{12}, \frac{4}{47}\sqrt{34}e^{13} + \frac{2}{141}\sqrt{102}e^{24}, \frac{2}{141}\sqrt{1122}e^{17}$	$(-\frac{28}{141}, \frac{20}{141}, \frac{22}{47}, \frac{6}{47}, \frac{67}{141}, -\frac{35}{141}, -\frac{8}{141}, \frac{38}{141}, -\frac{12}{47})$ $+ \frac{2}{141}\sqrt{3774}e^3 \otimes e_9 + \frac{34}{47}e^5 \otimes e_6$	{12357, 12367, 1589, 1689, 23458, 23468, 4579, 4679}
931:7	$0, 0, 0, 0, 0, 0, \frac{16}{1411}\sqrt{615}e^{12}, \frac{3}{1411}\sqrt{2870}e^{13} + \frac{2}{1411}\sqrt{155595}e^{24},$ $\frac{3}{1411}\sqrt{37310}e^{17}$	$(-\frac{23}{1411}, -\frac{235}{1411}, \frac{122}{1411}, \frac{334}{1411}, \frac{42}{83}, \frac{143}{1411}, -\frac{258}{1411}, \frac{99}{1411}, -\frac{281}{1411})$ $+ \frac{1}{1411}\sqrt{702330}e^5 \otimes e_8 + \frac{41}{1411}\sqrt{510}e^4 \otimes e_9$	{1234567, 123457, 13569, 1359, 245, 2456, 5679, 579}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{53}e^{13} + \frac{1}{33}\sqrt{159}e^{24}, \frac{2}{33}\sqrt{53}e^{17}$	$(\frac{5}{66}, \frac{7}{66}, \frac{2}{11}, \frac{5}{33}, 1, -\frac{20}{33}, \frac{2}{11}, \frac{17}{66}, \frac{17}{66})$ $+ \frac{53}{33}e^5 \otimes e_6$	{123459, 123469, 12589, 12689, 1357, 1367, 14578, 14678, 235789, 236789, 24579, 24679, 3458, 3468, 5, 6}
931:7	$0, 0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1133}e^{12}, \frac{2}{323}\sqrt{1133}e^{13} + \frac{4}{323}\sqrt{1133}e^{24},$ $\frac{2}{323}\sqrt{5665}e^{17}$	$(-\frac{70}{323}, \frac{99}{323}, \frac{165}{323}, -\frac{4}{323}, -\frac{107}{323}, \frac{40}{323}, \frac{29}{323}, \frac{5}{17}, -\frac{41}{323})$ $+ \frac{44}{323}\sqrt{309}e^2 \otimes e_5 + \frac{4}{323}\sqrt{3502}e^3 \otimes e_9$	{12689, 1289, 13567, 1357, 24679, 2479, 34568, 3458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:7	$0, 0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{12}, \frac{3}{211}\sqrt{210}e^{13} + \frac{3}{422}\sqrt{861}e^{24}, \frac{3}{211}\sqrt{1407}e^{17}$	$(\frac{39}{844}, -\frac{21}{422}, \frac{51}{844}, \frac{33}{211}, \frac{207}{422}, -\frac{339}{844}, -\frac{3}{844}, \frac{45}{422}, \frac{9}{211})$ $+ \frac{3}{422}\sqrt{6783}e^5 \otimes e_9 + \frac{3}{422}\sqrt{9030}e^1 \otimes e_6$	{1239, 12489, 13457, 1578, 2346789, 2679, 3568, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{2353}\sqrt{187322}e^{12}, \frac{2}{2353}\sqrt{107567}e^{13} + \frac{6}{2353}\sqrt{5317}e^{24}, \frac{4}{2353}\sqrt{77710}e^{17}$	$(\frac{21}{181}, -\frac{365}{2353}, -\frac{545}{2353}, \frac{93}{2353}, \frac{42}{181}, \frac{999}{2353}, -\frac{92}{2353}, -\frac{272}{2353}, \frac{1}{13})$ $+ \frac{2}{2353}\sqrt{322701}e^6 \otimes e_9 + \frac{2}{2353}\sqrt{416362}e^1 \otimes e_3 + \frac{8}{2353}\sqrt{8589}e^5 \otimes e_8$	{12459, 1567, 234579, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{6322}e^{12}, \frac{2}{441}\sqrt{7303}e^{13} + \frac{10}{441}\sqrt{654}e^{24}, \frac{2}{441}\sqrt{4033}e^{17}$	$(\frac{16}{441}, \frac{1}{9}, \frac{37}{147}, \frac{26}{147}, -\frac{169}{441}, \frac{20}{63}, \frac{65}{441}, \frac{127}{441}, \frac{9}{49})$ $+ \frac{2}{441}\sqrt{23217}e^2 \otimes e_5 + \frac{4}{441}\sqrt{5014}e^4 \otimes e_6$	{123689, 1249, 134578, 1567, 23479, 26789, 356, 458}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{4462}e^{12}, \frac{3}{275}\sqrt{679}e^{13} + \frac{1}{275}\sqrt{291}e^{24}, \frac{2}{275}\sqrt{2910}e^{17}$	$(\frac{28}{275}, \frac{28}{275}, -\frac{69}{275}, -\frac{69}{275}, \frac{56}{275}, \frac{24}{275}, \frac{56}{275}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{24153}e^1 \otimes e_3 + \frac{3}{275}\sqrt{2037}e^2 \otimes e_4 + \frac{8}{275}\sqrt{97}e^5 \otimes e_8$	{12569, 1259, 14567, 1457, 235679, 23579, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{4462}e^{12}, \frac{3}{275}\sqrt{679}e^{13} + \frac{1}{275}\sqrt{291}e^{24}, \frac{2}{275}\sqrt{2910}e^{17}$	$(\frac{28}{275}, \frac{28}{275}, -\frac{69}{275}, -\frac{69}{275}, \frac{56}{275}, \frac{24}{275}, \frac{56}{275}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{24153}e^1 \otimes e_3 - \frac{3}{275}\sqrt{2037}e^2 \otimes e_4 + \frac{8}{275}\sqrt{97}e^5 \otimes e_8$	{12569, 1259, 14567, 1457, 235679, 23579, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{70}{3013}\sqrt{11}e^{12}, \frac{14}{3013}\sqrt{5093}e^{13} + \frac{14}{3013}\sqrt{6017}e^{24}, \frac{14}{3013}\sqrt{2497}e^{17}$	$(-\frac{455}{3013}, \frac{513}{3013}, \frac{681}{3013}, -\frac{287}{3013}, \frac{1304}{3013}, -\frac{565}{3013}, \frac{58}{3013}, \frac{226}{3013}, \frac{397}{3013})$ $+ \frac{28}{3013}\sqrt{2431}e^3 \otimes e_9 + \frac{770}{3013}\sqrt{3}e^2 \otimes e_6 + \frac{84}{3013}\sqrt{319}e^5 \otimes e_8$	{1289, 13567, 24579, 3468}
931:7	$0, 0, 0, 0, 0, 0, \frac{10}{473}\sqrt{355}e^{12}, \frac{2}{473}\sqrt{4047}e^{13} + \frac{10}{473}\sqrt{213}e^{24}, \frac{2}{473}\sqrt{6603}e^{17}$	$(\frac{61}{473}, \frac{13}{473}, -\frac{81}{473}, -\frac{3}{43}, \frac{122}{473}, -\frac{3}{11}, \frac{74}{473}, -\frac{20}{473}, \frac{135}{473})$ $+ \frac{12}{473}\sqrt{355}e^1 \otimes e_3 + \frac{6}{473}\sqrt{1349}e^2 \otimes e_6 + \frac{8}{473}\sqrt{355}e^5 \otimes e_8$	{12459, 1567, 234579, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13}e^{12}, \frac{2}{29}\sqrt{65}e^{13} + \frac{2}{29}\sqrt{39}e^{24}, \frac{4}{29}\sqrt{26}e^{17}$	$(\frac{7}{29}, -\frac{1}{29}, 0, \frac{8}{29}, \frac{19}{29}, \frac{5}{29}, \frac{6}{29}, \frac{7}{29}, \frac{13}{29})$ $+ \frac{4}{29}\sqrt{78}e^1 \otimes e_5$	{12369, 1239, 124689, 12489, 13467, 1347, 1678, 178, 23456789, 2345789, 25679, 2579, 3568, 358, 45, 456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{10855}e^{12}, \frac{2}{659}\sqrt{26553}e^{13} + \frac{2}{659}\sqrt{6513}e^{24}, \frac{2}{659}\sqrt{13026}e^{17}$	$(\frac{91}{659}, -\frac{29}{659}, \frac{84}{659}, \frac{36}{659}, \frac{341}{659}, -\frac{243}{659}, \frac{62}{659}, \frac{7}{659}, \frac{153}{659})$ $+ \frac{2}{659}\sqrt{44422}e^5 \otimes e_8 + \frac{2}{659}\sqrt{53106}e^1 \otimes e_6$	{123459, 1289, 1357, 1478, 236789, 245679, 3468, 56}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{533}e^{24}, \frac{12}{185}\sqrt{41}e^{17}$	$(\frac{3}{37}, \frac{27}{185}, \frac{4}{37}, \frac{8}{185}, -\frac{67}{185}, -\frac{11}{37}, \frac{42}{185}, \frac{7}{37}, \frac{57}{185})$ $+ \frac{4}{185}\sqrt{779}e^2 \otimes e_6 + \frac{4}{185}\sqrt{902}e^1 \otimes e_5$	{12349, 1289, 1367, 14678, 235789, 24579, 34568, 56}
931:7	$0, 0, 0, 0, 0, 0, \frac{5}{1613}\sqrt{11242}e^{12}, \frac{4}{1613}\sqrt{48983}e^{13} + \frac{1}{1613}\sqrt{316382}e^{24}, \frac{1}{1613}\sqrt{203962}e^{17}$	$(-\frac{280}{1613}, \frac{138}{1613}, \frac{381}{1613}, -\frac{37}{1613}, \frac{904}{1613}, \frac{160}{1613}, -\frac{142}{1613}, \frac{101}{1613}, -\frac{422}{1613})$ $+ \frac{1}{1613}\sqrt{1138654}e^3 \otimes e_9 + \frac{4}{1613}\sqrt{74679}e^5 \otimes e_8$	{1234567, 123457, 14689, 1489, 2368, 238, 5679, 579}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1259}\sqrt{191530}e^{12}, \frac{5}{1259}\sqrt{11814}e^{13} + \frac{18}{1259}\sqrt{895}e^{24}, \frac{2}{1259}\sqrt{2685}e^{17}$	$(-\frac{119}{1259}, \frac{379}{1259}, -\frac{18}{1259}, -\frac{516}{1259}, \frac{758}{1259}, \frac{147}{1259}, \frac{260}{1259}, -\frac{137}{1259}, \frac{141}{1259})$ $+ \frac{1}{1259}\sqrt{1093690}e^5 \otimes e_8 + \frac{1}{1259}\sqrt{896790}e^2 \otimes e_4$	{1268, 128, 146789, 14789, 23678, 2378, 34689, 3489}
931:7	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30}e^{12}, \frac{9}{38}\sqrt{2}e^{13} + \frac{3}{38}\sqrt{30}e^{24}, \frac{3}{38}\sqrt{3}e^{17}$	$(-\frac{2}{19}, \frac{13}{38}, \frac{33}{76}, -\frac{1}{76}, -\frac{7}{19}, -\frac{21}{76}, \frac{9}{38}, \frac{25}{76}, \frac{5}{38})$ $+ \frac{3}{38}\sqrt{111}e^2 \otimes e_5 + \frac{9}{38}\sqrt{10}e^3 \otimes e_6$	{12349, 12689, 1357, 145678, 23789, 24679, 3458, 56}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{444718}e^{12}, \frac{4}{1445}\sqrt{18449}e^{13} + \frac{1}{1445}\sqrt{137882}e^{24}, \frac{1}{1445}\sqrt{448602}e^{17}$	$(-\frac{444}{1445}, \frac{122}{289}, \frac{693}{1445}, -\frac{361}{1445}, \frac{168}{1445}, \frac{168}{1445}, \frac{166}{1445}, \frac{249}{1445}, -\frac{278}{1445})$ $+ \frac{1}{1445}\sqrt{1314734}e^3 \otimes e_9 + \frac{4}{289}\sqrt{2913}e^2 \otimes e_4$	{134567, 13457, 1347, 25679, 2579, 279}
931:7	$0, 0, 0, 0, 0, 0, \frac{68}{3501}\sqrt{310}e^{12}, \frac{2}{3501}\sqrt{323051}e^{13} + \frac{2}{3501}\sqrt{157046}e^{24}, \frac{2}{3501}\sqrt{603942}e^{17}$	$(\frac{512}{3501}, -\frac{77}{389}, \frac{542}{3501}, \frac{221}{1167}, \frac{1385}{3501}, -\frac{391}{3501}, \frac{181}{3501}, -\frac{10}{1167}, \frac{331}{3501})$ $+ \frac{2}{3501}\sqrt{5797}e^5 \otimes e_9 + \frac{52}{3501}\sqrt{527}e^4 \otimes e_6 + \frac{8}{1167}\sqrt{5270}e^1 \otimes e_3$	{1249, 1567, 23479, 356}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{193}\sqrt{12815}e^{12}, \frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{386}\sqrt{1398}e^{24}, \frac{1}{386}\sqrt{50794}e^{17}$	$(\frac{54}{193}, -\frac{127}{772}, -\frac{125}{386}, \frac{93}{772}, \frac{80}{193}, -\frac{73}{386}, \frac{89}{772}, -\frac{17}{386}, \frac{305}{772})$ $+ \frac{1}{193}\sqrt{26329}e^1 \otimes e_3 + \frac{233}{386}e^5 \otimes e_6$	{1259, 1269, 1457, 1467, 23579, 23679, 345, 346}
931:7	$0, 0, 0, 0, 0, 0, \frac{4}{1299}\sqrt{12305}e^{12}, \frac{1}{1299}\sqrt{41730}e^{13} + \frac{1}{1299}\sqrt{210790}e^{24}, \frac{2}{1299}\sqrt{119305}e^{17}$	$(\frac{119}{1299}, -\frac{78}{433}, \frac{62}{433}, \frac{539}{1299}, -\frac{416}{1299}, \frac{49}{433}, -\frac{115}{1299}, \frac{305}{1299}, \frac{4}{1299})$ $+ \frac{1}{1299}\sqrt{602410}e^1 \otimes e_5 + \frac{1}{1299}\sqrt{630230}e^4 \otimes e_9$	{123689, 12389, 134678, 13478, 256789, 25789, 4568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:7	$0, 0, 0, 0, 0, 0, \frac{30}{463}\sqrt{17}e^{12}, \frac{12}{463}\sqrt{187}e^{13} + \frac{3}{463}\sqrt{3298}e^{24}, \frac{9}{463}\sqrt{102}e^{17}$	$(-\frac{30}{463}, -\frac{12}{463}, \frac{81}{463}, \frac{63}{463}, \frac{204}{463}, -\frac{90}{463}, -\frac{42}{463}, \frac{51}{463}, -\frac{72}{463})$ $+ \frac{15}{463}\sqrt{170}e^4 \otimes e_6 + \frac{39}{463}\sqrt{34}e^5 \otimes e_8 + \frac{6}{463}\sqrt{1139}e^3 \otimes e_9$	{123457, 1489, 2368, 5679}
931:7	$0, 0, 0, 0, 0, 0, \frac{5}{1251}\sqrt{12958}e^{12}, \frac{20}{1251}\sqrt{341}e^{13} + \frac{5}{417}\sqrt{682}e^{24}, \frac{110}{1251}\sqrt{31}e^{17}$	$(\frac{275}{1251}, -\frac{151}{1251}, \frac{23}{417}, \frac{55}{139}, -\frac{500}{1251}, -\frac{280}{1251}, \frac{124}{1251}, \frac{344}{1251}, \frac{133}{417})$ $+ \frac{5}{1251}\sqrt{27094}e^4 \otimes e_6 + \frac{5}{417}\sqrt{4526}e^1 \otimes e_5$	{12349, 12689, 1367, 1478, 2356789, 24579, 3458, 56}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{342}\sqrt{9389}e^{12}, \frac{1}{342}\sqrt{17862}e^{13} + \frac{1}{171}\sqrt{7099}e^{24}, \frac{1}{171}\sqrt{5267}e^{17}$	$(-\frac{25}{342}, -\frac{1}{171}, \frac{1}{684}, -\frac{5}{76}, \frac{409}{684}, \frac{59}{114}, -\frac{3}{38}, -\frac{49}{684}, -\frac{26}{171})$ $+ \frac{1}{342}\sqrt{75570}e^5 \otimes e_8 + \frac{5}{342}\sqrt{2519}e^6 \otimes e_9$	{1234567, 12678, 1359, 1489, 2368, 2456, 34789, 579}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{51}e^{13} + \frac{2}{27}\sqrt{34}e^{24}, \frac{2}{27}\sqrt{170}e^{17}$	$(-\frac{4}{27}, \frac{1}{27}, \frac{8}{27}, \frac{1}{9}, \frac{5}{27}, -\frac{1}{9}, \frac{4}{27}, -\frac{7}{27})$ $+ \frac{2}{27}\sqrt{374}e^5 \otimes e_9$	{123689, 12389, 12469, 1249, 1345678, 134578, 1567, 157, 234679, 23479, 26789, 2789, 35, 356, 4568, 458}
931:7	$0, 0, 0, 0, 0, 0, \frac{12}{1045}\sqrt{1630}e^{12}, \frac{2}{1045}\sqrt{25591}e^{13} + \frac{2}{1045}\sqrt{6683}e^{24}, \frac{4}{1045}\sqrt{9454}e^{17}$	$(\frac{104}{1045}, \frac{104}{1045}, -\frac{222}{1045}, -\frac{222}{1045}, \frac{243}{1045}, -\frac{83}{1045}, \frac{208}{1045}, -\frac{118}{1045}, \frac{312}{1045})$ $- \frac{14}{1045}\sqrt{1141}e^2 \otimes e_4 + \frac{326}{1045}e^5 \otimes e_6 + \frac{6}{1045}\sqrt{8313}e^1 \otimes e_3$	{1259, 1269, 1457, 1467, 23579, 23679, 345, 346}
931:7	$0, 0, 0, 0, 0, 0, \frac{12}{1045}\sqrt{1630}e^{12}, \frac{2}{1045}\sqrt{25591}e^{13} + \frac{2}{1045}\sqrt{6683}e^{24}, \frac{4}{1045}\sqrt{9454}e^{17}$	$(\frac{104}{1045}, \frac{104}{1045}, -\frac{222}{1045}, -\frac{222}{1045}, \frac{243}{1045}, -\frac{83}{1045}, \frac{208}{1045}, -\frac{118}{1045}, \frac{312}{1045})$ $+ \frac{14}{1045}\sqrt{1141}e^2 \otimes e_4 + \frac{326}{1045}e^5 \otimes e_6 + \frac{6}{1045}\sqrt{8313}e^1 \otimes e_3$	{1259, 1269, 1457, 1467, 23579, 23679, 345, 346}
931:7	$0, 0, 0, 0, 0, 0, \frac{6}{1793}\sqrt{9165}e^{12}, \frac{2}{1793}\sqrt{125255}e^{13} + \frac{4}{1793}\sqrt{12831}e^{24}, \frac{1}{1793}\sqrt{563342}e^{17}$	$(-\frac{89}{1793}, \frac{74}{1793}, \frac{507}{1793}, \frac{344}{1793}, -\frac{700}{1793}, \frac{16}{1793}, -\frac{15}{1793}, \frac{38}{1793}, -\frac{104}{1793})$ $+ \frac{13}{1793}\sqrt{5358}e^3 \otimes e_9 + \frac{2}{1793}\sqrt{267618}e^1 \otimes e_5$	{124689, 12489, 13467, 1347, 25679, 2579, 3568, 358}
931:7	$0, 0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{3}{55}\sqrt{34}e^{13} + \frac{6}{55}\sqrt{13}e^{24}, \frac{9}{55}\sqrt{2}e^{17}$	$(-\frac{3}{55}, -\frac{3}{55}, \frac{9}{55}, \frac{9}{55}, \frac{24}{55}, -\frac{9}{55}, -\frac{6}{55}, \frac{6}{55}, -\frac{9}{55})$ $+ \frac{3}{55}\sqrt{53}e^3 \otimes e_6 + \frac{3}{55}\sqrt{71}e^4 \otimes e_9 + \frac{3}{55}\sqrt{79}e^5 \otimes e_8$	{123457, 1359, 2456, 5679}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{2}{527}\sqrt{45633}e^{13} + \frac{14}{527}\sqrt{861}e^{24}, \frac{4}{527}\sqrt{1722}e^{17}$	$(\frac{25}{527}, \frac{13}{527}, -\frac{72}{527}, -\frac{60}{527}, \frac{1}{527}, \frac{87}{527}, \frac{38}{527}, -\frac{47}{527}, \frac{63}{527})$ $+ \frac{4}{527}\sqrt{31570}e^5 \otimes e_8$	{12345679, 1234579, 126789, 12789, 135, 1356, 1468, 148, 23689, 2389, 24569, 2459, 34678, 3478, 567, 57}
931:7	$0, 0, 0, 0, 0, 0, \frac{3}{434}\sqrt{7414}e^{12}, \frac{1}{434}\sqrt{14491}e^{13} + \frac{1}{217}\sqrt{1685}e^{24}, \frac{1}{434}\sqrt{15502}e^{17}$	$(-\frac{53}{434}, \frac{353}{868}, \frac{69}{434}, -\frac{321}{868}, \frac{108}{217}, -\frac{121}{434}, \frac{247}{868}, \frac{8}{217}, \frac{141}{868})$ $+ \frac{1}{217}\sqrt{36733}e^2 \otimes e_4 + \frac{337}{434}e^5 \otimes e_6$	{1259, 1269, 1457, 1467, 23579, 23679, 345, 346}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{3861}\sqrt{444718}e^{12}, \frac{8}{3861}\sqrt{18449}e^{13} + \frac{2}{3861}\sqrt{137882}e^{24}, \frac{2}{3861}\sqrt{448602}e^{17}$	$(-\frac{296}{1287}, \frac{1220}{3861}, \frac{14}{39}, -\frac{722}{3861}, \frac{1307}{3861}, -\frac{635}{3861}, \frac{332}{3861}, \frac{166}{1287}, -\frac{556}{3861})$ $+ \frac{1942}{3861}e^5 \otimes e_6 + \frac{2}{3861}\sqrt{1314734}e^3 \otimes e_9 + \frac{40}{3861}\sqrt{2913}e^2 \otimes e_4$	{13457, 13467, 2579, 2679}
931:7	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{2290}e^{13} + \frac{2}{353}\sqrt{9389}e^{24}, \frac{1}{353}\sqrt{35266}e^{17}$	$(-\frac{25}{353}, -\frac{25}{353}, \frac{154}{353}, \frac{154}{353}, -\frac{75}{353}, \frac{42}{353}, -\frac{50}{353}, \frac{129}{353}, -\frac{75}{353})$ $+ \frac{2}{353}\sqrt{22213}e^4 \otimes e_9 + \frac{3}{353}\sqrt{5954}e^3 \otimes e_5$	{123467, 12347, 1369, 139, 245, 2456, 5679, 579}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{363}\sqrt{4294}e^{12}, \frac{2}{1089}\sqrt{21583}e^{13} + \frac{10}{1089}\sqrt{113}e^{24}, \frac{4}{1089}\sqrt{9379}e^{17}$	$(\frac{43}{1089}, \frac{43}{1089}, -\frac{61}{363}, -\frac{61}{363}, \frac{355}{1089}, \frac{76}{1089}, \frac{86}{1089}, -\frac{140}{1089}, \frac{43}{363})$ $+ \frac{10}{363}\sqrt{226}e^1 \otimes e_3 + \frac{2}{363}\sqrt{3503}e^5 \otimes e_9 + \frac{4}{1089}\sqrt{8023}e^2 \otimes e_4$	{1269, 129, 14567, 1457, 23679, 2379, 345, 3456}
931:7	$0, 0, 0, 0, 0, 0, \frac{2}{363}\sqrt{4294}e^{12}, \frac{2}{1089}\sqrt{21583}e^{13} + \frac{10}{1089}\sqrt{113}e^{24}, \frac{4}{1089}\sqrt{9379}e^{17}$	$(\frac{43}{1089}, \frac{43}{1089}, -\frac{61}{363}, -\frac{61}{363}, \frac{355}{1089}, \frac{76}{1089}, \frac{86}{1089}, -\frac{140}{1089}, \frac{43}{363})$ $+ \frac{10}{363}\sqrt{226}e^1 \otimes e_3 + \frac{2}{363}\sqrt{3503}e^5 \otimes e_9 + \frac{4}{1089}\sqrt{8023}e^2 \otimes e_4$	{1269, 129, 14567, 1457, 23679, 2379, 345, 3456}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{197}\sqrt{3010}e^{12}, \frac{1}{591}\sqrt{38442}e^{34}, \frac{2}{591}\sqrt{3741}e^{13} + \frac{2}{591}\sqrt{10965}e^{27}$	$(\frac{8}{591}, -\frac{6}{197}, -\frac{12}{197}, \frac{101}{591}, \frac{194}{591}, -\frac{49}{197}, -\frac{10}{591}, \frac{65}{591}, -\frac{28}{591})$ $+ \frac{1}{197}\sqrt{5590}e^4 \otimes e_9 + \frac{1}{591}\sqrt{35862}e^5 \otimes e_8 + \frac{2}{591}\sqrt{13029}e^2 \otimes e_6$	{12389, 136789, 23457, 3456}
931:8	$0, 0, 0, 0, 0, 0, \frac{22}{1549}\sqrt{582}e^{12}, \frac{11}{1549}\sqrt{1230}e^{34}, \frac{22}{1549}\sqrt{30}e^{13} + \frac{11}{1549}\sqrt{2082}e^{27}$	$(\frac{227}{1549}, -\frac{39}{1549}, -\frac{78}{1549}, -\frac{58}{1549}, \frac{512}{1549}, -\frac{402}{1549}, \frac{188}{1549}, -\frac{136}{1549}, \frac{149}{1549})$ $+ \frac{11}{1549}\sqrt{2190}e^5 \otimes e_9 + \frac{33}{1549}\sqrt{366}e^2 \otimes e_6 + \frac{44}{1549}\sqrt{183}e^1 \otimes e_8$	{129, 1679, 24578, 4568}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{30}e^{12}, \frac{2}{21}\sqrt{30}e^{34}, \frac{2}{7}\sqrt{3}e^{13} + \frac{2}{21}\sqrt{30}e^{27}$	$(\frac{2}{21}, \frac{1}{21}, \frac{2}{21}, -\frac{1}{3}, \frac{1}{7}, \frac{1}{7}, -\frac{5}{21}, \frac{4}{21})$ $+ \frac{2}{7}\sqrt{6}e^2 \otimes e_8$	{1234569, 123459, 12349, 1356789, 135789, 13789, 234567, 23457, 2347, 3568, 358, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{473}e^{12}, \frac{2}{167}\sqrt{602}e^{34}, \frac{10}{167}\sqrt{86}e^{13} + \frac{2}{167}\sqrt{602}e^{27}$	$(-\frac{22}{167}, \frac{14}{167}, \frac{28}{167}, \frac{3}{167}, \frac{92}{167}, -\frac{58}{167}, -\frac{8}{167}, \frac{31}{167}, \frac{6}{167})$ $+\frac{10}{167}\sqrt{129}e^3 \otimes e_6 + \frac{10}{167}\sqrt{129}e^5 \otimes e_9$	{123457, 123578, 1345, 1358, 2349, 2389, 3479, 3789}
931:8	$0, 0, 0, 0, 0, 0, \frac{22}{1451}\sqrt{983}e^{12}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{1}{1451}\sqrt{33422}e^{27}$	$(\frac{484}{1451}, -\frac{83}{1451}, -\frac{166}{1451}, \frac{559}{1451}, -\frac{499}{1451}, -\frac{424}{1451}, \frac{401}{1451}, \frac{393}{1451}, \frac{318}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^1 \otimes e_5 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_6$	{12489, 1269, 14789, 1679, 24578, 2567, 458, 56}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{279}\sqrt{66}e^{12}, \frac{44}{279}\sqrt{10}e^{34}, \frac{8}{279}\sqrt{143}e^{13} + \frac{44}{279}\sqrt{10}e^{27}$	$(\frac{2}{93}, -\frac{23}{279}, -\frac{46}{279}, \frac{136}{93}, \frac{41}{93}, -\frac{53}{279}, -\frac{17}{279}, \frac{10}{31}, -\frac{40}{279})$ $+\frac{176}{279}e^5 \otimes e_6 + \frac{8}{279}\sqrt{858}e^4 \otimes e_9$	{1259, 1269, 1579, 1679, 24578, 24678, 458, 468}
931:8	$0, 0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{44}{191}\sqrt{10}e^{34}, \frac{8}{191}\sqrt{143}e^{13} + \frac{4}{191}\sqrt{66}e^{27}$	$(\frac{110}{191}, -\frac{23}{191}, -\frac{46}{191}, -\frac{20}{191}, \frac{35}{191}, \frac{35}{191}, \frac{87}{191}, -\frac{66}{191}, \frac{64}{191})$ $+\frac{8}{191}\sqrt{858}e^1 \otimes e_8$	{12569, 1259, 129, 15679, 1579, 179, 245678, 24578, 2478, 4568, 458, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}e^{34}, \frac{8}{17}e^{13} + \frac{4}{17}\sqrt{5}e^{27}$	$(\frac{1}{17}, \frac{1}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{7}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{6}{17}, \frac{3}{17})$ $+\frac{12}{17}e^2 \otimes e_5 + \frac{4}{17}\sqrt{6}e^4 \otimes e_6$	{12349, 123689, 134579, 1356789, 2347, 23678, 345, 3568}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{751}\sqrt{5502}e^{12}, \frac{2}{751}\sqrt{20305}e^{34}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{8}{751}\sqrt{2227}e^{27}$	$(-\frac{15}{751}, -\frac{1}{751}, -\frac{2}{751}, \frac{245}{751}, -\frac{263}{751}, \frac{88}{751}, -\frac{16}{751}, \frac{243}{751}, -\frac{17}{751})$ $+\frac{4}{751}\sqrt{10218}e^4 \otimes e_9 + \frac{6}{751}\sqrt{5109}e^2 \otimes e_5$	{123689, 12389, 1356789, 135789, 23467, 2347, 345, 3456}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{509}\sqrt{6474}e^{12}, \frac{1}{509}\sqrt{32370}e^{34}, \frac{1}{509}\sqrt{54282}e^{13} + \frac{1}{509}\sqrt{32370}e^{27}$	$(\frac{104}{509}, -\frac{57}{509}, -\frac{114}{509}, \frac{239}{509}, -\frac{145}{509}, \frac{60}{509}, \frac{47}{509}, \frac{125}{509}, -\frac{10}{509})$ $+\frac{1}{509}\sqrt{102090}e^1 \otimes e_5 + \frac{2}{509}\sqrt{30378}e^4 \otimes e_9$	{1269, 129, 1679, 179, 245678, 24578, 4568, 458}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42}e^{12}, \frac{5}{51}\sqrt{14}e^{34}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{27}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, -\frac{2}{51}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+\frac{14}{51}e^5 \otimes e_6 + \frac{1}{51}\sqrt{546}e^1 \otimes e_8 + \frac{1}{51}\sqrt{546}e^4 \otimes e_9$	{1259, 1269, 1579, 1679, 24578, 24678, 458, 468}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42}e^{12}, \frac{5}{51}\sqrt{14}e^{34}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{27}$	$(\frac{4}{17}, -\frac{7}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{4}{17}, -\frac{2}{51}, \frac{5}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+\frac{14}{51}e^5 \otimes e_6 + \frac{1}{51}\sqrt{546}e^1 \otimes e_8 - \frac{1}{51}\sqrt{546}e^4 \otimes e_9$	{1259, 1269, 1579, 1679, 24578, 24678, 458, 468}
931:8	$0, 0, 0, 0, 0, 0, \frac{9}{1753}\sqrt{2002}e^{12}, \frac{45}{1753}\sqrt{210}e^{34}, \frac{126}{1753}\sqrt{13}e^{13} + \frac{18}{1753}\sqrt{763}e^{27}$	$(\frac{286}{1753}, -\frac{196}{1753}, -\frac{392}{1753}, \frac{461}{1753}, \frac{636}{1753}, -\frac{281}{1753}, \frac{90}{1753}, \frac{69}{1753}, -\frac{106}{1753})$ $+\frac{18}{1753}\sqrt{1561}e^1 \otimes e_6 + \frac{9}{1753}\sqrt{6594}e^5 \otimes e_8 + \frac{9}{1753}\sqrt{9394}e^4 \otimes e_9$	{1259, 1579, 24678, 468}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{390}e^{12}, \frac{2}{91}\sqrt{390}e^{34}, \frac{4}{91}\sqrt{85}e^{13} + \frac{4}{91}\sqrt{110}e^{27}$	$(\frac{1}{13}, 0, 0, -\frac{20}{91}, \frac{27}{91}, \frac{12}{91}, \frac{1}{13}, -\frac{20}{91}, \frac{1}{13})$ $+\frac{10}{91}\sqrt{6}e^5 \otimes e_9 + \frac{2}{91}\sqrt{70}e^3 \otimes e_4 + \frac{2}{91}\sqrt{710}e^2 \otimes e_8$	{123469, 12349, 234567, 23457}
931:8	$0, 0, 0, 0, 0, 0, \frac{88}{1781}\sqrt{73}e^{12}, \frac{11}{1781}\sqrt{7738}e^{34}, \frac{8}{1781}\sqrt{803}e^{13} + \frac{1}{1781}\sqrt{91542}e^{27}$	$(\frac{704}{1781}, -\frac{206}{1781}, -\frac{412}{1781}, \frac{313}{1781}, -\frac{490}{1781}, \frac{203}{1781}, \frac{498}{1781}, -\frac{99}{1781}, \frac{292}{1781})$ $+\frac{1}{1781}\sqrt{1421310}e^1 \otimes e_8 + \frac{33}{1781}\sqrt{1022}e^4 \otimes e_5$	{12569, 1259, 15679, 1579, 24678, 2478, 468, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{16}{371}\sqrt{51}e^{12}, \frac{8}{371}\sqrt{246}e^{34}, \frac{8}{371}\sqrt{122}e^{13} + \frac{8}{371}\sqrt{246}e^{27}$	$(-\frac{2}{371}, \frac{20}{371}, \frac{40}{371}, -\frac{12}{53}, \frac{102}{371}, -\frac{24}{371}, \frac{18}{371}, -\frac{44}{371}, \frac{38}{371})$ $+\frac{16}{371}\sqrt{103}e^2 \otimes e_8 + \frac{24}{371}\sqrt{14}e^3 \otimes e_6 + \frac{24}{371}\sqrt{14}e^5 \otimes e_9$	{12349, 13789, 23457, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{44}{279}\sqrt{10}e^{12}, \frac{44}{279}\sqrt{10}e^{34}, \frac{8}{279}\sqrt{143}e^{13} + \frac{4}{279}\sqrt{66}e^{27}$	$(\frac{110}{279}, -\frac{23}{279}, -\frac{46}{279}, -\frac{20}{279}, \frac{41}{93}, -\frac{53}{279}, \frac{29}{93}, -\frac{22}{93}, \frac{64}{279})$ $+\frac{176}{279}e^5 \otimes e_6 + \frac{8}{279}\sqrt{858}e^1 \otimes e_8$	{1259, 1269, 1579, 1679, 24578, 24678, 458, 468}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{22}\sqrt{42}e^{12}, \frac{5}{44}\sqrt{14}e^{34}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{27}$	$(\frac{3}{11}, -\frac{7}{44}, -\frac{7}{22}, \frac{3}{11}, \frac{5}{44}, \frac{5}{44}, \frac{5}{44}, -\frac{1}{22}, -\frac{1}{22})$ $+\frac{1}{44}\sqrt{546}e^1 \otimes e_8 - \frac{1}{44}\sqrt{546}e^4 \otimes e_9$	{12569, 1259, 129, 15679, 1579, 179, 245678, 24578, 2478, 4568, 458, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{22}\sqrt{42}e^{12}, \frac{5}{44}\sqrt{14}e^{34}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{27}$	$(\frac{3}{11}, -\frac{7}{44}, -\frac{7}{22}, \frac{3}{11}, \frac{5}{44}, \frac{5}{44}, \frac{5}{44}, -\frac{1}{22}, -\frac{1}{22})$ $+\frac{1}{44}\sqrt{546}e^1 \otimes e_8 + \frac{1}{44}\sqrt{546}e^4 \otimes e_9$	{12569, 1259, 129, 15679, 1579, 179, 245678, 24578, 2478, 4568, 458, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{205}\sqrt{559}e^{12}, \frac{1}{205}\sqrt{430}e^{34}, \frac{1}{205}\sqrt{9030}e^{13} + \frac{7}{205}\sqrt{43}e^{27}$	$(\frac{26}{205}, \frac{3}{41}, \frac{6}{41}, -\frac{56}{205}, \frac{12}{41}, -\frac{12}{41}, \frac{1}{5}, -\frac{26}{205}, \frac{56}{205})$ $+\frac{1}{205}\sqrt{11911}e^3 \otimes e_4 + \frac{1}{205}\sqrt{13029}e^1 \otimes e_6 + \frac{1}{205}\sqrt{7611}e^5 \otimes e_8$	{1238, 1378, 236789, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{30}e^{12}, \frac{1}{12}\sqrt{30}e^{34}, \frac{1}{4}\sqrt{3}e^{13} + \frac{1}{12}\sqrt{30}e^{27}$	$(\frac{1}{12}, \frac{1}{24}, \frac{1}{12}, -\frac{7}{24}, \frac{1}{4}, 0, \frac{1}{8}, -\frac{5}{24}, \frac{1}{6})$ $+ \frac{1}{4}\sqrt{6}e^2 \otimes e_8 + \frac{1}{4}e^5 \otimes e_6$	{123459, 123469, 135789, 136789, 23457, 23467, 358, 368}
931:8	$0, 0, 0, 0, 0, 0, \frac{18}{1753}\sqrt{763}e^{12}, \frac{45}{1753}\sqrt{210}e^{34}, \frac{126}{1753}\sqrt{13}e^{13} + \frac{9}{1753}\sqrt{2002}e^{27}$	$(\frac{436}{1753}, -\frac{196}{1753}, -\frac{392}{1753}, \frac{261}{1753}, \frac{611}{1753}, -\frac{306}{1753}, \frac{240}{1753}, -\frac{131}{1753}, \frac{44}{1753})$ $+ \frac{18}{1753}\sqrt{1561}e^5 \otimes e_9 + \frac{9}{1753}\sqrt{6594}e^4 \otimes e_6 + \frac{9}{1753}\sqrt{9394}e^1 \otimes e_8$	{1269, 1679, 24578, 458}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{191}\sqrt{66}e^{12}, \frac{44}{191}\sqrt{10}e^{34}, \frac{8}{191}\sqrt{143}e^{13} + \frac{44}{191}\sqrt{10}e^{27}$	$(\frac{6}{191}, -\frac{23}{191}, -\frac{46}{191}, \frac{136}{191}, \frac{35}{191}, \frac{35}{191}, -\frac{17}{191}, \frac{90}{191}, -\frac{40}{191})$ $+ \frac{8}{191}\sqrt{858}e^4 \otimes e_9$	{12569, 1259, 129, 15679, 1579, 179, 245678, 24578, 2478, 4568, 458, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{6}{59}\sqrt{2}e^{12}, \frac{4}{59}\sqrt{6}e^{34}, \frac{2}{59}\sqrt{14}e^{13} + \frac{4}{59}\sqrt{6}e^{27}$	$(\frac{2}{59}, -\frac{2}{59}, -\frac{4}{59}, 0, \frac{7}{59}, \frac{5}{59}, 0, -\frac{4}{59}, -\frac{2}{59})$ $+ \frac{2}{59}\sqrt{34}e^2 \otimes e_8 + \frac{2}{59}e^5 \otimes e_6 + \frac{6}{59}\sqrt{2}e^4 \otimes e_9$	{135789, 136789, 23457, 23467}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{322}e^{34}, \frac{2}{37}\sqrt{115}e^{13} + \frac{4}{37}\sqrt{23}e^{27}$	$(\frac{8}{37}, -\frac{1}{37}, -\frac{2}{37}, -\frac{7}{37}, \frac{1}{37}, \frac{7}{37}, \frac{7}{37}, -\frac{9}{37}, \frac{6}{37})$ $+ \frac{2}{37}\sqrt{690}e^5 \otimes e_8$	{1234569, 123459, 123689, 12389, 1345679, 134579, 136789, 13789, 234567, 23457, 23678, 2378, 345, 3456, 368, 38}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{359}\sqrt{1610}e^{12}, \frac{1}{359}\sqrt{6118}e^{34}, \frac{4}{359}\sqrt{322}e^{13} + \frac{5}{359}\sqrt{1610}e^{27}$	$(-\frac{23}{359}, \frac{19}{359}, \frac{38}{359}, \frac{22}{359}, \frac{176}{359}, -\frac{142}{359}, -\frac{4}{359}, \frac{60}{359}, \frac{15}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_6 + \frac{3}{359}\sqrt{4830}e^5 \otimes e_9$	{12349, 12389, 134679, 136789, 23457, 23578, 3456, 3568}
931:8	$0, 0, 0, 0, 0, 0, \frac{3}{29}\sqrt{2}e^{12}, \frac{2}{29}\sqrt{6}e^{34}, \frac{1}{29}\sqrt{14}e^{13} + \frac{2}{29}\sqrt{6}e^{27}$	$(\frac{1}{29}, -\frac{1}{29}, -\frac{2}{29}, 0, \frac{3}{29}, \frac{3}{29}, 0, -\frac{2}{29}, -\frac{1}{29})$ $+ \frac{1}{29}\sqrt{34}e^2 \otimes e_8 + \frac{3}{29}\sqrt{2}e^4 \otimes e_9$	{1356789, 135789, 13789, 234567, 23457, 2347}
931:8	$0, 0, 0, 0, 0, 0, \frac{12}{1841}\sqrt{659}e^{12}, \frac{1}{1841}\sqrt{631322}e^{34}, \frac{2}{1841}\sqrt{133118}e^{13} + \frac{2}{1841}\sqrt{73149}e^{27}$	$(-\frac{144}{1841}, \frac{38}{1841}, \frac{76}{1841}, \frac{591}{1841}, -\frac{583}{1841}, \frac{188}{1841}, -\frac{106}{1841}, \frac{667}{1841}, -\frac{68}{1841})$ $+ \frac{1}{1841}\sqrt{1016178}e^3 \otimes e_5 + \frac{6}{263}\sqrt{659}e^4 \otimes e_9$	{123467, 12347, 134, 1346, 23689, 2389, 36789, 3789}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{185}\sqrt{583}e^{12}, \frac{2}{185}\sqrt{1749}e^{34}, \frac{2}{185}\sqrt{583}e^{13} + \frac{4}{185}\sqrt{583}e^{27}$	$(-\frac{9}{185}, \frac{33}{185}, \frac{66}{185}, -\frac{9}{185}, -\frac{73}{185}, -\frac{37}{185}, \frac{24}{185}, \frac{57}{185}, \frac{57}{185})$ $+ \frac{16}{185}\sqrt{53}e^3 \otimes e_6 + \frac{1}{185}\sqrt{5141}e^2 \otimes e_5$	{12349, 12389, 134579, 135789, 2347, 2378, 345, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{602}e^{12}, \frac{2}{167}\sqrt{473}e^{34}, \frac{10}{167}\sqrt{86}e^{13} + \frac{2}{167}\sqrt{602}e^{27}$	$(\frac{28}{167}, -\frac{11}{167}, -\frac{22}{167}, \frac{28}{167}, \frac{92}{167}, -\frac{58}{167}, \frac{17}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{10}{167}\sqrt{129}e^1 \otimes e_6 + \frac{10}{167}\sqrt{129}e^5 \otimes e_9$	{1249, 1289, 1479, 1789, 24567, 25678, 456, 568}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{611}\sqrt{1730}e^{12}, \frac{2}{611}\sqrt{1730}e^{34}, \frac{1}{611}\sqrt{64010}e^{13} + \frac{4}{611}\sqrt{346}e^{27}$	$(\frac{40}{611}, \frac{10}{611}, \frac{20}{611}, -\frac{153}{611}, \frac{233}{611}, \frac{46}{611}, \frac{50}{611}, -\frac{133}{611}, \frac{60}{611})$ $+ \frac{1}{611}\sqrt{61934}e^3 \otimes e_4 + \frac{1}{611}\sqrt{64702}e^5 \otimes e_9 + \frac{1}{611}\sqrt{68854}e^1 \otimes e_8$	{245678, 24578, 4568, 458}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{19}\sqrt{5}e^{12}, \frac{4}{19}\sqrt{5}e^{34}, \frac{8}{19}\sqrt{6}e^{13} + \frac{4}{19}\sqrt{5}e^{27}$	$(-\frac{10}{57}, \frac{1}{3}, \frac{2}{3}, -\frac{34}{57}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, \frac{4}{57}, \frac{28}{57})$ $+ \frac{16}{19}\sqrt{3}e^3 \otimes e_4$	{1245679, 124579, 12479, 14569, 1459, 149, 24, 245, 2456, 4567, 457, 47}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{1}{91}\sqrt{618}e^{34}, \frac{5}{91}\sqrt{206}e^{13} + \frac{2}{91}\sqrt{1133}e^{27}$	$(-\frac{6}{91}, -\frac{3}{91}, -\frac{6}{91}, \frac{19}{91}, \frac{1}{91}, \frac{16}{91}, -\frac{9}{91}, \frac{1}{7}, -\frac{12}{91})$ $+ \frac{5}{91}\sqrt{618}e^5 \otimes e_9$	{12345678, 1234578, 123567, 12357, 134568, 13458, 135, 1356, 234689, 23489, 2369, 239, 346789, 34789, 3679, 379}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{1781}\sqrt{91542}e^{12}, \frac{11}{1781}\sqrt{7738}e^{34}, \frac{8}{1781}\sqrt{803}e^{13} + \frac{88}{1781}\sqrt{73}e^{27}$	$(\frac{114}{1781}, -\frac{206}{1781}, -\frac{412}{1781}, \frac{505}{1781}, \frac{896}{1781}, \frac{203}{1781}, -\frac{92}{1781}, \frac{93}{1781}, -\frac{298}{1781})$ $+ \frac{1}{1781}\sqrt{1421310}e^4 \otimes e_9 + \frac{33}{1781}\sqrt{1022}e^5 \otimes e_8$	{12569, 1259, 15679, 1579, 24678, 2478, 468, 48}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{869}\sqrt{226}e^{12}, \frac{2}{869}\sqrt{10057}e^{34}, \frac{2}{869}\sqrt{35934}e^{13} + \frac{2}{869}\sqrt{226}e^{27}$	$(\frac{4}{869}, \frac{47}{869}, \frac{94}{869}, -\frac{12}{79}, \frac{324}{869}, -\frac{222}{869}, \frac{51}{869}, -\frac{38}{869}, \frac{98}{869})$ $+ \frac{2}{869}\sqrt{30849}e^1 \otimes e_6 + \frac{2}{869}\sqrt{30849}e^5 \otimes e_9 + \frac{8}{869}\sqrt{1921}e^3 \otimes e_4$	{1249, 1479, 24567, 456}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{322}e^{34}, \frac{2}{37}\sqrt{115}e^{13} + \frac{4}{37}\sqrt{23}e^{27}$	$(\frac{8}{37}, -\frac{1}{37}, -\frac{2}{37}, \frac{23}{37}, \frac{23}{37}, \frac{7}{37}, \frac{7}{37}, \frac{21}{37}, \frac{6}{37})$ $+ \frac{2}{37}\sqrt{690}e^4 \otimes e_5$	{123469, 12349, 1235689, 123589, 134679, 13479, 1356789, 135789, 23467, 2347, 235678, 23578, 34, 346, 3568, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:8	$0, 0, 0, 0, 0, 0, \frac{14}{269}\sqrt{22}e^{12}, \frac{2}{269}\sqrt{1342}e^{34}, \frac{2}{269}\sqrt{1067}e^{13} + \frac{14}{269}\sqrt{22}e^{27}$	$(\frac{26}{269}, \frac{1}{269}, \frac{2}{269}, -\frac{23}{269}, -\frac{45}{269}, \frac{27}{269}, \frac{27}{269}, -\frac{21}{269}, \frac{28}{269})$ $+ \frac{12}{269}\sqrt{22}e^4 \otimes e_5 + \frac{2}{269}\sqrt{1870}e^2 \otimes e_8$	{123469, 12349, 1356789, 135789, 23467, 2347, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{455}e^{12}, \frac{4}{257}\sqrt{455}e^{34}, \frac{12}{257}\sqrt{130}e^{13} + \frac{10}{257}\sqrt{39}e^{27}$	$(\frac{56}{257}, \frac{14}{257}, \frac{28}{257}, -\frac{102}{257}, \frac{27}{257}, \frac{27}{257}, \frac{70}{257}, -\frac{74}{257}, \frac{84}{257})$ $+ \frac{2}{257}\sqrt{6565}e^3 \otimes e_4 + \frac{2}{257}\sqrt{8385}e^1 \otimes e_8$	{2356789, 235789, 23789, 35689, 3589, 389}
931:8	$0, 0, 0, 0, 0, 0, \frac{5}{359}\sqrt{1610}e^{12}, \frac{1}{359}\sqrt{6118}e^{34}, \frac{4}{359}\sqrt{322}e^{13} + \frac{4}{359}\sqrt{1610}e^{27}$	$(\frac{67}{359}, \frac{19}{359}, \frac{38}{359}, \frac{22}{359}, -\frac{94}{359}, \frac{142}{359}, \frac{86}{359}, \frac{60}{359}, \frac{105}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_6 + \frac{3}{359}\sqrt{4830}e^1 \otimes e_5$	{12349, 12389, 134679, 136789, 23457, 23578, 3456, 3568}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{509}\sqrt{32370}e^{12}, \frac{1}{509}\sqrt{32370}e^{34}, \frac{1}{509}\sqrt{54282}e^{13} + \frac{2}{509}\sqrt{6474}e^{27}$	$(\frac{130}{509}, -\frac{57}{509}, -\frac{114}{509}, -\frac{5}{509}, \frac{265}{509}, \frac{60}{509}, \frac{73}{509}, -\frac{119}{509}, \frac{16}{509})$ $+ \frac{1}{509}\sqrt{102090}e^5 \otimes e_9 + \frac{2}{509}\sqrt{30378}e^1 \otimes e_8$	{1269, 129, 1679, 179, 245678, 24578, 4568, 458}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{587}\sqrt{642}e^{12}, \frac{1}{587}\sqrt{114918}e^{34}, \frac{10}{587}\sqrt{321}e^{13} + \frac{2}{587}\sqrt{642}e^{27}$	$(\frac{8}{587}, \frac{54}{587}, \frac{108}{587}, \frac{133}{587}, -\frac{213}{587}, -\frac{188}{587}, \frac{62}{587}, \frac{241}{587}, \frac{116}{587})$ $+ \frac{10}{587}\sqrt{1605}e^4 \otimes e_6 + \frac{5}{587}\sqrt{7062}e^3 \otimes e_5$	{124589, 12569, 145789, 15679, 24578, 2567, 458, 56}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{110}e^{12}, \frac{1}{19}\sqrt{110}e^{34}, \frac{1}{19}\sqrt{110}e^{13} + \frac{1}{19}\sqrt{110}e^{27}$	$(\frac{3}{19}, 0, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19}, \frac{3}{19})$ $+ \frac{1}{19}\sqrt{190}e^2 \otimes e_8 + \frac{1}{19}\sqrt{30}e^3 \otimes e_4$	{1234569, 123459, 12349, 234567, 23457, 2347}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{455}e^{12}, \frac{2}{161}\sqrt{455}e^{34}, \frac{6}{161}\sqrt{130}e^{13} + \frac{5}{161}\sqrt{39}e^{27}$	$(\frac{4}{23}, \frac{1}{23}, \frac{2}{23}, -\frac{51}{161}, \frac{2}{7}, -\frac{19}{161}, \frac{5}{23}, -\frac{37}{161}, \frac{6}{23})$ $+ \frac{1}{161}\sqrt{6565}e^3 \otimes e_4 + \frac{1}{161}\sqrt{8385}e^1 \otimes e_8 + \frac{65}{161}e^5 \otimes e_6$	{235789, 236789, 3589, 3689}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{457}\sqrt{1023}e^{12}, \frac{1}{457}\sqrt{41602}e^{34}, \frac{1}{457}\sqrt{47058}e^{13} + \frac{2}{457}\sqrt{1023}e^{27}$	$(-\frac{12}{457}, \frac{63}{457}, \frac{126}{457}, -\frac{215}{457}, \frac{252}{457}, \frac{51}{457}, \frac{51}{457}, -\frac{89}{457}, \frac{114}{457})$ $+ \frac{1}{457}\sqrt{137082}e^5 \otimes e_8 + \frac{1}{457}\sqrt{139810}e^3 \otimes e_4$	{1246789, 124789, 14689, 1489, 2468, 248, 4678, 478}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{110}e^{12}, \frac{2}{43}\sqrt{110}e^{34}, \frac{2}{43}\sqrt{110}e^{13} + \frac{2}{43}\sqrt{110}e^{27}$	$(\frac{6}{43}, 0, 0, -\frac{10}{43}, \frac{11}{43}, \frac{1}{43}, \frac{6}{43}, -\frac{10}{43}, \frac{6}{43})$ $+ \frac{10}{43}e^5 \otimes e_6 + \frac{2}{43}\sqrt{190}e^2 \otimes e_8 + \frac{2}{43}\sqrt{30}e^3 \otimes e_4$	{123459, 123469, 23457, 23467}
931:8	$0, 0, 0, 0, 0, 0, \frac{6}{49}\sqrt{11}e^{12}, \frac{6}{49}\sqrt{11}e^{34}, \frac{2}{49}\sqrt{77}e^{13} + \frac{1}{49}\sqrt{462}e^{27}$	$(\frac{2}{49}, \frac{1}{49}, \frac{2}{49}, -\frac{12}{49}, \frac{15}{49}, \frac{6}{49}, \frac{3}{49}, -\frac{10}{49}, \frac{4}{49})$ $+ \frac{2}{49}\sqrt{187}e^2 \otimes e_8 + \frac{3}{49}\sqrt{22}e^5 \otimes e_9$	{123469, 12349, 136789, 13789, 234567, 23457, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{361}\sqrt{222}e^{12}, \frac{4}{3971}\sqrt{73815}e^{34}, \frac{4}{3971}\sqrt{109335}e^{13} + \frac{4}{3971}\sqrt{12099}e^{27}$	$(\frac{44}{361}, -\frac{30}{3971}, -\frac{60}{3971}, -\frac{344}{3971}, \frac{1312}{3971}, -\frac{948}{3971}, \frac{454}{3971}, -\frac{404}{3971}, \frac{424}{3971})$ $+ \frac{36}{3971}\sqrt{1739}e^3 \otimes e_6 + \frac{4}{3971}\sqrt{110001}e^5 \otimes e_9 + \frac{4}{3971}\sqrt{154290}e^1 \otimes e_8$	{1269, 1679, 245678, 4568}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{31}\sqrt{5}e^{12}, \frac{4}{31}\sqrt{5}e^{34}, \frac{8}{31}\sqrt{6}e^{13} + \frac{4}{31}\sqrt{5}e^{27}$	$(-\frac{10}{93}, \frac{19}{93}, \frac{38}{93}, -\frac{34}{93}, \frac{15}{31}, -\frac{9}{31}, \frac{3}{31}, \frac{4}{93}, \frac{28}{93})$ $+ \frac{16}{31}\sqrt{3}e^3 \otimes e_4 + \frac{24}{31}e^5 \otimes e_6$	{124579, 124679, 1459, 1469, 245, 246, 457, 467}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}e^{34}, \frac{8}{17}e^{13} + \frac{4}{17}\sqrt{5}e^{27}$	$(\frac{1}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{8}{17}, \frac{2}{17}, \frac{2}{17}, 0, \frac{3}{17})$ $+ \frac{12}{17}e^2 \otimes e_6 + \frac{4}{17}\sqrt{6}e^5 \otimes e_8$	{123459, 12389, 1345679, 136789, 23457, 2378, 3456, 368}
931:8	$0, 0, 0, 0, 0, 0, \frac{22}{1451}\sqrt{983}e^{12}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{1}{1451}\sqrt{33422}e^{27}$	$(\frac{484}{1451}, -\frac{83}{1451}, -\frac{166}{1451}, -\frac{41}{1451}, \frac{776}{1451}, -\frac{499}{1451}, \frac{401}{1451}, -\frac{207}{1451}, \frac{318}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^1 \otimes e_6 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_8$	{12489, 1259, 14789, 1579, 24678, 2567, 468, 56}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{1133}e^{12}, \frac{1}{91}\sqrt{618}e^{34}, \frac{5}{91}\sqrt{206}e^{13} + \frac{1}{91}\sqrt{618}e^{27}$	$(\frac{44}{91}, -\frac{3}{91}, -\frac{6}{91}, \frac{19}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{41}{91}, \frac{1}{91}, \frac{38}{91})$ $+ \frac{5}{91}\sqrt{618}e^1 \otimes e_5$	{123, 123468, 12348, 1236, 134678, 13478, 1367, 137, 23456789, 2345789, 235679, 23579, 345689, 34589, 3569, 359}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{22}{1451}\sqrt{983}e^{27}$	$(\frac{34}{1451}, -\frac{83}{1451}, -\frac{166}{1451}, \frac{559}{1451}, \frac{851}{1451}, -\frac{424}{1451}, -\frac{49}{1451}, \frac{393}{1451}, -\frac{132}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^5 \otimes e_9 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_6$	{12489, 1269, 14789, 1679, 24578, 2567, 458, 56}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{1}{1451}\sqrt{426622}e^{34}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{22}{1451}\sqrt{983}e^{27}$	$(\frac{34}{1451}, -\frac{83}{1451}, -\frac{166}{1451}, -\frac{41}{1451}, \frac{776}{1451}, \frac{851}{1451}, -\frac{49}{1451}, -\frac{207}{1451}, -\frac{132}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^6 \otimes e_9 + \frac{20}{1451}\sqrt{2949}e^5 \otimes e_8$	{12489, 1259, 14789, 1579, 24678, 2567, 468, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:8	$0, 0, 0, 0, 0, 0, \frac{6}{49}\sqrt{11}e^{12}, \frac{1}{49}\sqrt{462}e^{34}, \frac{2}{49}\sqrt{77}e^{13} + \frac{6}{49}\sqrt{11}e^{27}$	$(\frac{2}{49}, \frac{4}{49}, \frac{8}{49}, -\frac{15}{49}, -\frac{3}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{1}{7}, \frac{10}{49})$ $+ \frac{2}{49}\sqrt{187}e^2 \otimes e_8 + \frac{3}{49}\sqrt{22}e^3 \otimes e_5$	{123469, 12349, 136789, 13789, 23467, 2347, 368, 38}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{602}e^{12}, \frac{2}{167}\sqrt{602}e^{34}, \frac{10}{167}\sqrt{86}e^{13} + \frac{2}{167}\sqrt{473}e^{27}$	$(\frac{28}{167}, \frac{14}{167}, \frac{28}{167}, \frac{3}{167}, -\frac{58}{167}, -\frac{58}{167}, \frac{42}{167}, \frac{31}{167}, \frac{56}{167})$ $+ \frac{10}{167}\sqrt{129}e^1 \otimes e_5 + \frac{10}{167}\sqrt{129}e^3 \otimes e_6$	{1234, 1238, 1347, 1378, 234579, 235789, 3459, 3589}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{577}\sqrt{33402}e^{12}, \frac{1}{577}\sqrt{33402}e^{34},$ $\frac{1}{577}\sqrt{128334}e^{13} + \frac{2}{577}\sqrt{4981}e^{27}$	$(-\frac{114}{577}, \frac{71}{577}, \frac{142}{577}, -\frac{151}{577}, \frac{321}{577}, \frac{48}{577}, -\frac{43}{577}, -\frac{9}{577}, \frac{28}{577})$ $+ \frac{16}{577}\sqrt{586}e^3 \otimes e_4 + \frac{1}{577}\sqrt{159978}e^5 \otimes e_9$	{123567, 12357, 135, 1356, 2369, 239, 3679, 379}
931:8	$0, 0, 0, 0, 0, 0, \frac{8}{751}\sqrt{2227}e^{12}, \frac{2}{751}\sqrt{20305}e^{34},$ $\frac{2}{751}\sqrt{8515}e^{13} + \frac{4}{751}\sqrt{5502}e^{27}$	$(\frac{193}{751}, -\frac{1}{751}, -\frac{2}{751}, -\frac{67}{751}, -\frac{263}{751}, \frac{88}{751}, \frac{192}{751}, -\frac{69}{751}, \frac{191}{751})$ $+ \frac{4}{751}\sqrt{10218}e^1 \otimes e_8 + \frac{6}{751}\sqrt{5109}e^2 \otimes e_5$	{123469, 12349, 1345679, 134579, 23678, 2378, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{530}e^{12}, \frac{3}{82}\sqrt{53}e^{34}, \frac{1}{82}\sqrt{318}e^{13} + \frac{1}{41}\sqrt{530}e^{27}$	$(-\frac{13}{164}, \frac{17}{82}, \frac{17}{41}, -\frac{19}{82}, -\frac{18}{41}, \frac{21}{164}, \frac{21}{82}, \frac{15}{82}, \frac{55}{164})$ $+ \frac{1}{82}\sqrt{4929}e^2 \otimes e_5 + \frac{5}{82}\sqrt{106}e^3 \otimes e_4$	{123689, 12389, 1356789, 135789, 23678, 2378, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{602}e^{12}, \frac{16}{167}\sqrt{43}e^{34}, \frac{10}{167}\sqrt{43}e^{13} + \frac{2}{167}\sqrt{602}e^{27}$	$(\frac{28}{167}, \frac{11}{167}, \frac{22}{167}, \frac{28}{167}, \frac{92}{167}, -\frac{58}{167}, \frac{17}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{10}{167}\sqrt{129}e^4 \otimes e_6 + \frac{10}{167}\sqrt{129}e^5 \otimes e_8$	{123459, 123689, 134579, 136789, 23457, 23678, 345, 368}
931:8	$0, 0, 0, 0, 0, 0, \frac{3}{1145}\sqrt{858}e^{12}, \frac{6}{1145}\sqrt{4355}e^{34},$ $\frac{12}{1145}\sqrt{455}e^{13} + \frac{6}{1145}\sqrt{1586}e^{27}$	$(-\frac{33}{1145}, -\frac{3}{229}, -\frac{6}{229}, \frac{171}{1145}, \frac{75}{229}, -\frac{264}{1145}, -\frac{48}{1145}, \frac{141}{1145}, -\frac{63}{1145})$ $+ \frac{3}{1145}\sqrt{14794}e^5 \otimes e_8 + \frac{3}{1145}\sqrt{18434}e^3 \otimes e_6 + \frac{3}{1145}\sqrt{21606}e^4 \otimes e_9$	{123457, 1345, 2389, 3789}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{2}{91}\sqrt{1133}e^{34}, \frac{5}{91}\sqrt{206}e^{13} + \frac{1}{91}\sqrt{618}e^{27}$	$(-\frac{6}{91}, \frac{22}{91}, \frac{44}{91}, -\frac{6}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{16}{91}, \frac{38}{91}, \frac{38}{91})$ $+ \frac{5}{91}\sqrt{618}e^3 \otimes e_5$	{12456789, 1245789, 125679, 12579, 145689, 14589, 1569, 159, 24568, 2458, 25, 256, 45678, 4578, 567, 57}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{462}e^{12}, \frac{6}{49}\sqrt{11}e^{34}, \frac{2}{49}\sqrt{77}e^{13} + \frac{6}{49}\sqrt{11}e^{27}$	$(\frac{8}{49}, \frac{1}{49}, \frac{2}{49}, -\frac{12}{49}, -\frac{3}{49}, \frac{6}{49}, \frac{9}{49}, -\frac{10}{49}, \frac{10}{49})$ $+ \frac{2}{49}\sqrt{187}e^2 \otimes e_8 + \frac{3}{49}\sqrt{22}e^1 \otimes e_5$	{123469, 12349, 136789, 13789, 234567, 23457, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{577}\sqrt{4981}e^{12}, \frac{1}{577}\sqrt{33402}e^{34},$ $\frac{1}{577}\sqrt{128334}e^{13} + \frac{1}{577}\sqrt{33402}e^{27}$	$(\frac{68}{577}, \frac{71}{577}, \frac{142}{577}, -\frac{151}{577}, -\frac{225}{577}, \frac{48}{577}, \frac{139}{577}, -\frac{9}{577}, \frac{210}{577})$ $+ \frac{16}{577}\sqrt{586}e^3 \otimes e_4 + \frac{1}{577}\sqrt{159978}e^1 \otimes e_5$	{123, 1236, 1367, 137, 235679, 23579, 3569, 359}
931:8	$0, 0, 0, 0, 0, 0, \frac{7}{205}\sqrt{43}e^{12}, \frac{1}{205}\sqrt{430}e^{34}, \frac{1}{205}\sqrt{9030}e^{13} + \frac{2}{205}\sqrt{559}e^{27}$	$(-\frac{49}{410}, \frac{3}{41}, \frac{6}{41}, -\frac{56}{205}, \frac{12}{41}, \frac{183}{410}, -\frac{19}{410}, -\frac{26}{205}, \frac{11}{205})$ $+ \frac{1}{205}\sqrt{11911}e^3 \otimes e_4 + \frac{1}{205}\sqrt{13029}e^0 \otimes e_9 + \frac{1}{205}\sqrt{7611}e^5 \otimes e_8$	{123678, 1368, 2389, 3789}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{1841}\sqrt{73149}e^{12}, \frac{1}{1841}\sqrt{631322}e^{34},$ $\frac{2}{1841}\sqrt{133118}e^{13} + \frac{12}{1841}\sqrt{659}e^{27}$	$(\frac{444}{1841}, \frac{38}{1841}, \frac{76}{1841}, \frac{291}{1841}, -\frac{583}{1841}, \frac{188}{1841}, \frac{482}{1841}, -\frac{215}{1841}, \frac{520}{1841})$ $+ \frac{1}{1841}\sqrt{1016178}e^3 \otimes e_5 + \frac{6}{263}\sqrt{659}e^1 \otimes e_8$	{1234, 12346, 13467, 1347, 236789, 23789, 3689, 389}
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{95}e^{12}, \frac{2}{47}\sqrt{133}e^{34}, \frac{2}{47}\sqrt{247}e^{13} + \frac{4}{47}\sqrt{95}e^{27}$	$(\frac{1}{47}, \frac{7}{47}, \frac{14}{47}, \frac{17}{47}, -\frac{31}{47}, \frac{8}{47}, \frac{8}{47}, \frac{15}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{741}e^2 \otimes e_5$	{123469, 12349, 123689, 12389, 1345679, 134579, 1356789, 135789, 23467, 2347, 23678, 2378, 345, 3456, 3568, 358}
931:8	$0, 0, 0, 0, 0, 0, \frac{1}{61}\sqrt{258}e^{12}, \frac{1}{122}\sqrt{129}e^{34}, \frac{1}{122}\sqrt{1290}e^{13} + \frac{1}{61}\sqrt{559}e^{27}$	$(-\frac{33}{244}, \frac{13}{122}, \frac{13}{61}, -\frac{17}{122}, \frac{105}{244}, \frac{15}{61}, -\frac{7}{244}, \frac{9}{122}, \frac{19}{244})$ $+ \frac{1}{122}\sqrt{2494}e^3 \otimes e_4 + \frac{1}{61}\sqrt{903}e^5 \otimes e_9 + \frac{9}{122}\sqrt{43}e^2 \otimes e_6$	{1249, 14679, 2457, 456}
931:8	$0, 0, 0, 0, 0, 0, \frac{8}{371}\sqrt{246}e^{12}, \frac{16}{371}\sqrt{51}e^{34}, \frac{8}{371}\sqrt{122}e^{13} + \frac{8}{371}\sqrt{246}e^{27}$	$(\frac{40}{371}, -\frac{1}{371}, -\frac{2}{371}, -\frac{9}{371}, \frac{102}{371}, -\frac{24}{371}, \frac{39}{371}, -\frac{65}{371}, \frac{38}{371})$ $+ \frac{16}{371}\sqrt{103}e^2 \otimes e_8 + \frac{24}{371}\sqrt{14}e^1 \otimes e_6 + \frac{24}{371}\sqrt{14}e^5 \otimes e_9$	{12349, 13789, 234567, 3568}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{2443}\sqrt{77738}e^{12}, \frac{4}{2443}\sqrt{24205}e^{34},$ $\frac{2}{2443}\sqrt{73790}e^{13} + \frac{6}{2443}\sqrt{9118}e^{27}$	$(\frac{195}{2443}, -\frac{4}{2443}, -\frac{8}{2443}, -\frac{184}{2443}, \frac{375}{2443}, -\frac{372}{2443}, \frac{191}{2443}, -\frac{192}{2443}, \frac{187}{2443})$ $+ \frac{2}{2443}\sqrt{137146}e^2 \otimes e_8 + \frac{2}{2443}\sqrt{57246}e^4 \otimes e_6 + \frac{4}{2443}\sqrt{3243}e^5 \otimes e_9$	{12349, 136789, 23457, 3568}
931:8	$0, 0, 0, 0, 0, 0, \frac{2}{587}\sqrt{642}e^{12}, \frac{1}{587}\sqrt{114918}e^{34},$ $\frac{10}{587}\sqrt{321}e^{13} + \frac{2}{587}\sqrt{642}e^{27}$	$(\frac{8}{587}, \frac{54}{587}, \frac{108}{587}, -\frac{117}{587}, \frac{312}{587}, -\frac{213}{587}, \frac{62}{587}, -\frac{9}{587}, \frac{116}{587})$ $+ \frac{10}{587}\sqrt{1605}e^5 \otimes e_8 + \frac{3}{587}\sqrt{7062}e^3 \otimes e_6$	{124689, 12569, 146789, 15679, 24678, 2567, 468, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:8	$0, 0, 0, 0, 0, 0, \frac{4}{757}\sqrt{6765}e^{12}, \frac{8}{757}\sqrt{1353}e^{34},$ $\frac{8}{757}\sqrt{902}e^{13} + \frac{4}{757}\sqrt{6765}e^{27}$	$(\frac{1}{757}, \frac{77}{757}, \frac{154}{757}, -\frac{174}{757}, \frac{308}{757}, -\frac{251}{757}, \frac{78}{757}, -\frac{20}{757}, \frac{155}{757})$ $+ \frac{4}{757}\sqrt{13489}e^2 \otimes e_6 + \frac{4}{757}\sqrt{9430}e^5 \otimes e_8 + \frac{8}{757}\sqrt{1230}e^3 \otimes e_4$	{12389, 136789, 2378, 368}
931:9	$0, 0, 0, 0, 0, 0, \frac{3}{397}\sqrt{690}e^{12}, \frac{6}{397}\sqrt{437}e^{34}, \frac{6}{397}\sqrt{437}e^{17} + \frac{3}{397}\sqrt{4922}e^{35}$	$(-\frac{8}{397}, \frac{30}{397}, -\frac{100}{397}, \frac{7}{397}, \frac{114}{397}, \frac{221}{397}, \frac{22}{397}, -\frac{93}{397}, \frac{14}{397})$ $+ \frac{12}{397}\sqrt{506}e^5 \otimes e_8 + \frac{12}{397}\sqrt{506}e^6 \otimes e_9$	{12389, 1259, 134567, 14678, 23789, 2579, 3456, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{6}{217}\sqrt{73}e^{12}, \frac{8}{217}\sqrt{146}e^{34}, \frac{12}{217}\sqrt{73}e^{17} + \frac{4}{217}\sqrt{365}e^{35}$	$(-\frac{18}{217}, \frac{18}{217}, \frac{64}{217}, -\frac{5}{217}, -\frac{82}{217}, \frac{128}{217}, 0, \frac{59}{217}, -\frac{18}{217})$ $+ \frac{2}{217}\sqrt{6497}e^3 \otimes e_5 + \frac{2}{217}\sqrt{7373}e^6 \otimes e_9$	{12349, 12389, 124589, 1259, 23479, 23789, 245789, 2579}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{1316}\sqrt{34230}e^{12}, \frac{1}{329}\sqrt{22983}e^{34},$ $\frac{1}{1316}\sqrt{198534}e^{17} + \frac{1}{658}\sqrt{38631}e^{35}$	$(\frac{213}{1316}, -\frac{69}{329}, \frac{639}{2632}, -\frac{271}{1316}, -\frac{339}{2632}, \frac{1075}{2632}, -\frac{9}{188}, \frac{97}{2632}, \frac{75}{658})$ $+ \frac{1}{1316}\sqrt{422985}e^3 \otimes e_5 + \frac{1}{1316}\sqrt{422985}e^6 \otimes e_8 + \frac{1}{658}\sqrt{84597}e^1 \otimes e_2$	{13467, 1378, 14578, 1567}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{1691}\sqrt{41415}e^{12}, \frac{5}{1691}\sqrt{1506}e^{34},$ $\frac{1}{1691}\sqrt{584830}e^{17} + \frac{1}{1691}\sqrt{7530}e^{35}$	$(\frac{643}{1691}, -\frac{612}{1691}, \frac{719}{1691}, -\frac{536}{1691}, -\frac{45}{1691}, \frac{198}{1691}, \frac{31}{1691}, \frac{183}{1691}, \frac{674}{1691})$ $+ \frac{1}{1691}\sqrt{1879990}e^3 \otimes e_4 + \frac{4}{1691}\sqrt{116715}e^1 \otimes e_2$	{13567, 1357, 1467, 147, 23679, 2379, 245679, 24579}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{682}e^{12}, \frac{1}{33}\sqrt{186}e^{34}, \frac{2}{33}\sqrt{186}e^{17} + \frac{1}{33}\sqrt{186}e^{35}$	$(\frac{10}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{1}{11}, \frac{3}{11}, -\frac{7}{11}, \frac{5}{33}, \frac{3}{11}, \frac{5}{11})$ $+ \frac{1}{11}\sqrt{186}e^1 \otimes e_6$	{123459, 123589, 12489, 129, 1347, 1378, 14578, 157, 2345679, 2356789, 246789, 2679, 346, 368, 4568, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7770}e^{12}, \frac{1}{391}\sqrt{45066}e^{34},$ $\frac{1}{391}\sqrt{45066}e^{17} + \frac{1}{391}\sqrt{22274}e^{35}$	$(\frac{116}{391}, -\frac{143}{391}, \frac{174}{391}, -\frac{42}{391}, -\frac{5}{23}, \frac{45}{391}, -\frac{27}{391}, \frac{132}{391}, \frac{89}{391})$ $+ \frac{1}{391}\sqrt{89614}e^1 \otimes e_2 + \frac{1}{391}\sqrt{89614}e^3 \otimes e_5$	{13467, 1347, 13678, 1378, 145678, 14578, 1567, 157}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{1731}\sqrt{74481}e^{12}, \frac{1}{1731}\sqrt{151646}e^{34},$ $\frac{2}{1731}\sqrt{44957}e^{17} + \frac{1}{1731}\sqrt{438834}e^{35}$	$(-\frac{193}{1731}, \frac{148}{577}, \frac{74}{577}, -\frac{449}{1731}, -\frac{164}{1731}, \frac{243}{577}, \frac{251}{1731}, -\frac{227}{1731}, \frac{58}{1731})$ $+ \frac{1}{1731}\sqrt{669658}e^3 \otimes e_4 + \frac{1}{1731}\sqrt{675026}e^2 \otimes e_8 + \frac{2}{1731}\sqrt{189893}e^6 \otimes e_9$	{135678, 14678, 3568, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{29}{1577}\sqrt{682}e^{12}, \frac{22}{1577}\sqrt{899}e^{34},$ $\frac{2}{1577}\sqrt{128557}e^{17} + \frac{3}{1577}\sqrt{19778}e^{35}$	$(\frac{352}{1577}, -\frac{6}{83}, -\frac{136}{1577}, -\frac{37}{1577}, \frac{726}{1577}, -\frac{547}{1577}, \frac{238}{1577}, -\frac{173}{1577}, \frac{590}{1577})$ $+ \frac{4}{1577}\sqrt{84506}e^1 \otimes e_6 + \frac{62}{1577}\sqrt{290}e^5 \otimes e_8$	{12389, 1259, 13457, 1478, 236789, 25679, 3456, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{3}\sqrt{2}e^{12}, \frac{2}{9}\sqrt{3}e^{34}, \frac{2}{9}\sqrt{3}e^{17} + \frac{1}{9}\sqrt{6}e^{35}$	$(0, \frac{2}{9}, 0, -\frac{1}{9}, \frac{2}{9}, -\frac{1}{3}, \frac{2}{9}, -\frac{1}{9}, \frac{2}{9})$ $+ \frac{2}{9}\sqrt{6}e^1 \otimes e_6 + \frac{2}{9}\sqrt{6}e^2 \otimes e_8$	{123459, 129, 1378, 14578, 2345679, 2679, 368, 4568}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{1691}\sqrt{41415}e^{12}, \frac{1}{1691}\sqrt{584830}e^{34},$ $\frac{5}{1691}\sqrt{1506}e^{17} + \frac{9}{1691}\sqrt{7530}e^{35}$	$(\frac{147}{1691}, \frac{132}{1691}, \frac{471}{1691}, -\frac{784}{1691}, -\frac{45}{1691}, \frac{942}{1691}, \frac{279}{1691}, -\frac{313}{1691}, \frac{426}{1691})$ $+ \frac{1}{1691}\sqrt{1879990}e^3 \otimes e_4 + \frac{4}{1691}\sqrt{116715}e^6 \otimes e_8$	{12358, 1248, 13789, 145789, 23578, 2478, 389, 4589}
931:9	$0, 0, 0, 0, 0, 0, \frac{42}{1879}\sqrt{165}e^{12}, \frac{7}{1879}\sqrt{9658}e^{34},$ $\frac{77}{1879}\sqrt{42}e^{17} + \frac{7}{1879}\sqrt{4290}e^{35}$	$(-\frac{315}{1879}, \frac{540}{1879}, -\frac{448}{1879}, \frac{449}{1879}, \frac{358}{1879}, -\frac{181}{1879}, \frac{225}{1879}, \frac{1}{1879}, -\frac{90}{1879})$ $+ \frac{28}{1879}\sqrt{858}e^2 \otimes e_8 + \frac{42}{1879}\sqrt{429}e^4 \otimes e_9 + \frac{7}{1879}\sqrt{8074}e^5 \otimes e_6$	{1259, 14678, 2579, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{18}{61}\sqrt{2}e^{12}, \frac{3}{61}\sqrt{114}e^{34}, \frac{3}{61}\sqrt{6}e^{17} + \frac{6}{61}\sqrt{6}e^{35}$	$(-\frac{6}{61}, \frac{24}{61}, \frac{9}{61}, -\frac{12}{61}, \frac{3}{61}, -\frac{18}{61}, \frac{18}{61}, -\frac{3}{61}, \frac{12}{61})$ $+ \frac{15}{61}\sqrt{6}e^3 \otimes e_6 + \frac{3}{61}\sqrt{174}e^2 \otimes e_8$	{12349, 12569, 13578, 14678, 23479, 25679, 358, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{12}{521}\sqrt{65}e^{12}, \frac{12}{521}\sqrt{546}e^{34}, \frac{6}{521}\sqrt{1313}e^{17} + \frac{6}{521}\sqrt{221}e^{35}$	$(-\frac{61}{521}, \frac{40}{521}, \frac{76}{521}, \frac{152}{521}, -\frac{158}{521}, \frac{60}{521}, -\frac{21}{521}, \frac{228}{521}, -\frac{82}{521})$ $+ \frac{156}{521}\sqrt{5}e^4 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^3 \otimes e_5$	{123689, 12389, 12569, 1259, 236789, 23789, 25679, 2579}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{798}e^{12}, \frac{2}{377}\sqrt{2037}e^{34}, \frac{2}{377}\sqrt{462}e^{17} + \frac{2}{377}\sqrt{1806}e^{35}$	$(-\frac{3}{377}, \frac{19}{377}, -\frac{42}{377}, \frac{55}{377}, \frac{55}{377}, -\frac{84}{377}, \frac{16}{377}, \frac{1}{29}, \frac{1}{29})$ $+ \frac{15}{377}\sqrt{42}e^3 \otimes e_6 + \frac{15}{377}\sqrt{42}e^5 \otimes e_8 + \frac{1}{377}\sqrt{10374}e^4 \otimes e_9$	{12389, 12569, 13457, 14678, 23789, 25679, 345, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{798}e^{12}, \frac{2}{377}\sqrt{2037}e^{34}, \frac{2}{377}\sqrt{462}e^{17} + \frac{2}{377}\sqrt{1806}e^{35}$	$(-\frac{3}{377}, \frac{19}{377}, -\frac{42}{377}, \frac{55}{377}, \frac{55}{377}, -\frac{84}{377}, \frac{16}{377}, \frac{1}{29}, \frac{1}{29})$ $+ \frac{15}{377}\sqrt{42}e^3 \otimes e_6 - \frac{15}{377}\sqrt{42}e^5 \otimes e_8 + \frac{1}{377}\sqrt{10374}e^4 \otimes e_9$	{12389, 12569, 13457, 14678, 23789, 25679, 345, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{2081}\sqrt{151662}e^{12}, \frac{18}{2081}\sqrt{1099}e^{34},$ $\frac{2}{2081}\sqrt{90118}e^{17} + \frac{21}{2081}\sqrt{3454}e^{35}$	$(-\frac{26}{2081}, \frac{138}{2081}, \frac{572}{2081}, -\frac{527}{2081}, -\frac{486}{2081}, \frac{1185}{2081}, \frac{112}{2081}, \frac{45}{2081}, \frac{86}{2081})$ $+ \frac{112}{2081}\sqrt{157}e^3 \otimes e_4 + \frac{2}{2081}\sqrt{537411}e^6 \otimes e_9$	{1239, 12459, 13567, 1467, 2379, 24579, 356, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:9	$0, 0, 0, 0, 0, \frac{1}{576}\sqrt{11590}e^{12}, \frac{1}{288}\sqrt{32635}e^{34},$ $\frac{1}{576}\sqrt{25010}e^{17} + \frac{1}{288}\sqrt{10065}e^{35}$	$(-\frac{1}{192}, \frac{19}{288}, \frac{337}{1152}, \frac{205}{1152}, -\frac{91}{384}, -\frac{45}{128}, \frac{35}{576}, \frac{271}{576}, \frac{1}{18})$ $+\frac{1}{576}\sqrt{158295}e^3 \otimes e_5 + \frac{1}{576}\sqrt{158295}e^4 \otimes e_6$	{1347, 13678, 14578, 1567, 34, 368, 458, 56}
931:9	$0, 0, 0, 0, 0, \frac{4}{379}\sqrt{483}e^{12}, \frac{1}{1137}\sqrt{158102}e^{34},$ $\frac{4}{1137}\sqrt{4830}e^{17} + \frac{7}{1137}\sqrt{2438}e^{35}$	$(-\frac{119}{1137}, \frac{72}{379}, -\frac{322}{1137}, \frac{100}{379}, \frac{100}{379}, -\frac{106}{1137}, \frac{97}{1137}, -\frac{22}{1137}, -\frac{22}{1137})$ $-\frac{1}{1137}\sqrt{242466}e^5 \otimes e_8 + \frac{1}{379}\sqrt{31234}e^4 \otimes e_9 + \frac{2}{1137}\sqrt{34615}e^2 \otimes e_6$	{12389, 1259, 134567, 14678, 23789, 2579, 3456, 468}
931:9	$0, 0, 0, 0, 0, \frac{4}{379}\sqrt{483}e^{12}, \frac{1}{1137}\sqrt{158102}e^{34},$ $\frac{4}{1137}\sqrt{4830}e^{17} + \frac{7}{1137}\sqrt{2438}e^{35}$	$(-\frac{119}{1137}, \frac{72}{379}, -\frac{322}{1137}, \frac{100}{379}, \frac{100}{379}, -\frac{106}{1137}, \frac{97}{1137}, -\frac{22}{1137}, -\frac{22}{1137})$ $+\frac{1}{1137}\sqrt{242466}e^5 \otimes e_8 + \frac{1}{379}\sqrt{31234}e^4 \otimes e_9 + \frac{2}{1137}\sqrt{34615}e^2 \otimes e_6$	{12389, 1259, 134567, 14678, 23789, 2579, 3456, 468}
931:9	$0, 0, 0, 0, 0, \frac{1}{99}\sqrt{1426}e^{12}, \frac{5}{99}\sqrt{62}e^{34}, \frac{1}{99}\sqrt{2170}e^{17} + \frac{2}{99}\sqrt{93}e^{35}$	$(\frac{1}{9}, -\frac{1}{9}, -\frac{7}{99}, -\frac{13}{99}, \frac{2}{11}, \frac{14}{33}, 0, -\frac{20}{99}, \frac{1}{9})$ $+\frac{1}{99}\sqrt{3534}e^1 \otimes e_8 + \frac{2}{99}\sqrt{465}e^6 \otimes e_9$	{123459, 129, 13467, 1567, 235789, 24789, 368, 4568}
931:9	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{910}e^{12}, \frac{2}{81}\sqrt{910}e^{34}, \frac{2}{81}\sqrt{91}e^{17} + \frac{7}{81}\sqrt{78}e^{35}$	$(\frac{4}{27}, \frac{10}{81}, \frac{40}{81}, -\frac{5}{81}, -\frac{2}{27}, -\frac{17}{27}, \frac{22}{81}, \frac{35}{81}, \frac{34}{81})$ $+\frac{2}{81}\sqrt{3003}e^3 \otimes e_6$	{12345, 12358, 12468, 126, 13479, 13789, 1456789, 15679, 23457, 23578, 24678, 267, 349, 389, 45689, 569}
931:9	$0, 0, 0, 0, 0, \frac{5}{361}\sqrt{1194}e^{12}, \frac{1}{361}\sqrt{29054}e^{34},$ $\frac{4}{361}\sqrt{2189}e^{17} + \frac{1}{361}\sqrt{15522}e^{35}$	$(\frac{62}{361}, -\frac{31}{361}, \frac{146}{361}, -\frac{29}{361}, -\frac{53}{361}, -\frac{137}{361}, \frac{31}{361}, \frac{117}{361}, \frac{93}{361})$ $+\frac{1}{361}\sqrt{72038}e^1 \otimes e_6 + \frac{4}{361}\sqrt{3383}e^3 \otimes e_5$	{1347, 1378, 14578, 157, 346, 368, 4568, 56}
931:9	$0, 0, 0, 0, 0, \frac{2}{3881}\sqrt{411142}e^{12}, \frac{4}{3881}\sqrt{173182}e^{34},$ $\frac{2}{3881}\sqrt{284891}e^{17} + \frac{2}{3881}\sqrt{61473}e^{35}$	$(-\frac{683}{3881}, \frac{1244}{3881}, \frac{600}{3881}, -\frac{678}{3881}, -\frac{722}{3881}, \frac{1200}{3881}, \frac{561}{3881}, -\frac{78}{3881}, -\frac{122}{3881})$ $+\frac{2}{3881}\sqrt{548630}e^6 \otimes e_9 + \frac{2}{3881}\sqrt{783285}e^3 \otimes e_5 + \frac{4}{3881}\sqrt{247214}e^2 \otimes e_8$	{13678, 145678, 368, 4568}
931:9	$0, 0, 0, 0, 0, \frac{1}{1971}\sqrt{415774}e^{12}, \frac{1}{1971}\sqrt{726910}e^{34},$ $\frac{1}{1971}\sqrt{534302}e^{17} + \frac{16}{1971}\sqrt{1389}e^{35}$	$(\frac{107}{657}, -\frac{239}{1971}, \frac{433}{1971}, -\frac{575}{1971}, -\frac{10}{657}, \frac{70}{657}, \frac{82}{1971}, -\frac{142}{1971}, \frac{403}{1971})$ $+\frac{1}{1971}\sqrt{1052862}e^1 \otimes e_8 + \frac{4}{1971}\sqrt{36114}e^3 \otimes e_5$	{13467, 1347, 1567, 157, 368, 38, 4568, 458}
931:9	$0, 0, 0, 0, 0, \frac{1}{99}\sqrt{1426}e^{12}, \frac{1}{99}\sqrt{2170}e^{34}, \frac{5}{99}\sqrt{62}e^{17} + \frac{2}{99}\sqrt{93}e^{35}$	$(\frac{7}{33}, -\frac{1}{9}, \frac{13}{99}, \frac{23}{99}, \frac{2}{11}, -\frac{2}{11}, \frac{10}{99}, -\frac{10}{99}, \frac{31}{99})$ $+\frac{1}{99}\sqrt{3534}e^1 \otimes e_8 + \frac{2}{99}\sqrt{465}e^3 \otimes e_6$	{123459, 1269, 1347, 1567, 235789, 246789, 38, 4568}
931:9	$0, 0, 0, 0, 0, \frac{6}{4697}\sqrt{11998}e^{12}, \frac{2}{4697}\sqrt{159402}e^{34},$ $\frac{4}{4697}\sqrt{173971}e^{17} + \frac{12}{4697}\sqrt{22282}e^{35}$	$(\frac{703}{4697}, -\frac{1011}{4697}, \frac{953}{4697}, -\frac{761}{4697}, -\frac{558}{4697}, \frac{2109}{4697}, -\frac{4}{61}, \frac{192}{4697}, \frac{395}{4697})$ $+\frac{10}{4697}\sqrt{45421}e^3 \otimes e_4 + \frac{2}{4697}\sqrt{1082391}e^1 \otimes e_2 + \frac{2}{4697}\sqrt{1483467}e^6 \otimes e_9$	{13567, 1467, 2379, 24579}
931:9	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{110}e^{12}, \frac{2}{29}\sqrt{22}e^{34}, \frac{2}{29}\sqrt{22}e^{17} + \frac{1}{29}\sqrt{66}e^{35}$	$(\frac{6}{29}, -\frac{2}{29}, \frac{3}{29}, -\frac{8}{29}, \frac{7}{29}, -\frac{4}{29}, \frac{4}{29}, -\frac{5}{29}, \frac{10}{29})$ $+\frac{1}{29}\sqrt{154}e^3 \otimes e_4 + \frac{1}{29}\sqrt{154}e^5 \otimes e_6 + \frac{2}{29}\sqrt{66}e^1 \otimes e_8$	{236789, 245789, 358, 468}
931:9	$0, 0, 0, 0, 0, \frac{1}{261}\sqrt{962}e^{12}, \frac{2}{261}\sqrt{222}e^{34}, \frac{2}{261}\sqrt{222}e^{17} + \frac{2}{261}\sqrt{3071}e^{35}$	$(\frac{7}{261}, \frac{13}{261}, \frac{1}{29}, -\frac{65}{261}, \frac{2}{29}, \frac{101}{261}, \frac{20}{261}, -\frac{56}{261}, \frac{3}{29})$ $+\frac{1}{261}\sqrt{11618}e^3 \otimes e_4 + \frac{1}{261}\sqrt{12062}e^5 \otimes e_8 + \frac{1}{261}\sqrt{12062}e^6 \otimes e_9$	{12389, 14678, 23789, 468}
931:9	$0, 0, 0, 0, 0, \frac{6}{4529}\sqrt{13695}e^{12}, \frac{8}{4529}\sqrt{27390}e^{34},$ $\frac{2}{4529}\sqrt{991518}e^{17} + \frac{2}{4529}\sqrt{107734}e^{35}$	$(\frac{640}{4529}, -\frac{1186}{4529}, \frac{960}{4529}, -\frac{75}{4529}, -\frac{866}{4529}, \frac{1920}{4529}, -\frac{78}{647}, \frac{885}{4529}, \frac{94}{4529})$ $+\frac{2}{4529}\sqrt{1052689}e^3 \otimes e_5 + \frac{2}{4529}\sqrt{1383195}e^6 \otimes e_9 + \frac{8}{4529}\sqrt{83083}e^1 \otimes e_2$	{23479, 23789, 245789, 2579}
931:9	$0, 0, 0, 0, 0, \frac{1}{254}\sqrt{1065}e^{12}, \frac{3}{254}\sqrt{994}e^{34}, \frac{3}{254}\sqrt{994}e^{17} + \frac{1}{127}\sqrt{71}e^{35}$	$(\frac{19}{254}, -\frac{26}{127}, -\frac{77}{508}, \frac{57}{254}, \frac{49}{508}, \frac{179}{508}, -\frac{33}{254}, \frac{37}{508}, -\frac{7}{127})$ $+\frac{1}{254}\sqrt{13845}e^4 \otimes e_9 + \frac{1}{254}\sqrt{9514}e^1 \otimes e_2 + \frac{1}{254}\sqrt{9514}e^6 \otimes e_8$	{13467, 14578, 235789, 2679}
931:9	$0, 0, 0, 0, 0, \frac{1}{56}\sqrt{357}e^{12}, \frac{1}{14}\sqrt{102}e^{34}, \frac{1}{14}\sqrt{102}e^{17} + \frac{1}{14}\sqrt{51}e^{35}$	$(-\frac{9}{56}, \frac{1}{8}, -\frac{27}{112}, \frac{5}{7}, \frac{5}{112}, \frac{3}{16}, -\frac{1}{28}, \frac{53}{112}, -\frac{11}{56})$ $+\frac{1}{56}\sqrt{4641}e^4 \otimes e_9$	{123689, 12389, 12569, 1259, 134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579, 345, 3456, 468, 48}
931:9	$0, 0, 0, 0, 0, \frac{1}{585}\sqrt{29510}e^{12}, \frac{2}{195}\sqrt{454}e^{34},$ $\frac{8}{585}\sqrt{227}e^{17} + \frac{1}{585}\sqrt{65830}e^{35}$	$(\frac{16}{585}, \frac{2}{9}, \frac{6}{65}, -\frac{173}{585}, \frac{12}{65}, -\frac{97}{585}, \frac{146}{585}, -\frac{119}{585}, \frac{18}{65})$ $+\frac{2}{585}\sqrt{16571}e^2 \otimes e_6 + \frac{2}{585}\sqrt{21111}e^3 \otimes e_4 + \frac{2}{585}\sqrt{23154}e^5 \otimes e_8$	{1248, 136789, 2478, 3689}
931:9	$0, 0, 0, 0, 0, \frac{1}{1937}\sqrt{501882}e^{12}, \frac{8}{1937}\sqrt{7689}e^{34},$ $\frac{2}{1937}\sqrt{221583}e^{17} + \frac{1}{1937}\sqrt{48930}e^{35}$	$(\frac{84}{1937}, -\frac{128}{1937}, -\frac{12}{149}, \frac{739}{1937}, \frac{196}{1937}, -\frac{615}{1937}, -\frac{44}{1937}, \frac{583}{1937}, \frac{40}{1937})$ $+\frac{2}{1937}\sqrt{300570}e^4 \otimes e_9 + \frac{2}{1937}\sqrt{32853}e^1 \otimes e_6$	{12389, 1259, 13457, 1478, 236789, 25679, 3456, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:9	$0, 0, 0, 0, 0, 0, \frac{3}{367}\sqrt{3806}e^{12}, \frac{2}{367}\sqrt{9515}e^{34},$ $\frac{2}{367}\sqrt{9515}e^{17} + \frac{1}{367}\sqrt{11418}e^{35}$	$(\frac{88}{367}, -\frac{48}{367}, -\frac{26}{367}, -\frac{59}{367}, \frac{154}{367}, -\frac{19}{367}, \frac{40}{367}, -\frac{85}{367}, \frac{128}{367})$ $+ \frac{2}{367}\sqrt{21279}e^1 \otimes e_8 + \frac{2}{367}\sqrt{6055}e^5 \otimes e_6$	{123459, 1269, 13467, 157, 235789, 246789, 368, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{109}\sqrt{78}e^{12}, \frac{1}{109}\sqrt{2262}e^{34}, \frac{2}{109}\sqrt{273}e^{17} + \frac{2}{109}\sqrt{429}e^{35}$	$(-\frac{6}{109}, \frac{8}{109}, -\frac{39}{109}, \frac{35}{109}, \frac{35}{109}, \frac{12}{109}, \frac{2}{109}, -\frac{4}{109}, -\frac{4}{109})$ $+ \frac{26}{109}\sqrt{6}e^4 \otimes e_9 + \frac{3}{109}\sqrt{390}e^5 \otimes e_8$	{123689, 12389, 12569, 1259, 134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579, 345, 3456, 468, 48}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{109}\sqrt{78}e^{12}, \frac{1}{109}\sqrt{2262}e^{34}, \frac{2}{109}\sqrt{273}e^{17} + \frac{2}{109}\sqrt{429}e^{35}$	$(-\frac{6}{109}, \frac{8}{109}, -\frac{39}{109}, \frac{35}{109}, \frac{35}{109}, \frac{12}{109}, \frac{2}{109}, -\frac{4}{109}, -\frac{4}{109})$ $+ \frac{26}{109}\sqrt{6}e^4 \otimes e_9 - \frac{3}{109}\sqrt{390}e^5 \otimes e_8$	{123689, 12389, 12569, 1259, 134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579, 345, 3456, 468, 48}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{393}e^{12}, \frac{1}{103}\sqrt{1834}e^{34},$ $\frac{1}{103}\sqrt{1834}e^{17} + \frac{1}{103}\sqrt{10218}e^{35}$	$(\frac{19}{103}, \frac{12}{103}, -\frac{14}{103}, \frac{25}{103}, \frac{64}{103}, -\frac{67}{103}, \frac{31}{103}, \frac{11}{103}, \frac{50}{103})$ $+ \frac{1}{103}\sqrt{22270}e^5 \otimes e_6$	{123458, 1235, 1246, 1268, 1346789, 13679, 14579, 15789, 234578, 2357, 2467, 2678, 34689, 369, 459, 589}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{185}e^{12}, \frac{1}{54}\sqrt{814}e^{34}, \frac{1}{54}\sqrt{222}e^{17} + \frac{1}{54}\sqrt{185}e^{35}$	$(-\frac{13}{108}, \frac{10}{27}, \frac{11}{27}, -\frac{1}{12}, -\frac{5}{18}, -\frac{17}{54}, \frac{1}{4}, \frac{35}{108}, \frac{7}{54})$ $+ \frac{1}{54}\sqrt{1739}e^2 \otimes e_6 + \frac{2}{27}\sqrt{111}e^3 \otimes e_5$	{13467, 13678, 145678, 1567, 346, 368, 4568, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{4366}e^{12}, \frac{1}{37}\sqrt{590}e^{34}, \frac{1}{37}\sqrt{590}e^{17} + \frac{4}{111}\sqrt{177}e^{35}$	$(\frac{29}{111}, -\frac{19}{111}, -\frac{1}{37}, -\frac{9}{37}, \frac{14}{37}, \frac{6}{37}, \frac{10}{111}, -\frac{10}{37}, \frac{13}{37})$ $+ \frac{1}{111}\sqrt{10974}e^1 \otimes e_8$	{1234569, 123459, 1269, 129, 13467, 1347, 1567, 157, 2356789, 235789, 246789, 24789, 368, 38, 4568, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030}e^{12}, \frac{4}{639}\sqrt{23374}e^{34},$ $\frac{2}{639}\sqrt{23777}e^{17} + \frac{2}{639}\sqrt{22971}e^{35}$	$(\frac{7}{213}, \frac{80}{639}, \frac{464}{639}, -\frac{112}{639}, -\frac{38}{71}, \frac{40}{213}, \frac{101}{639}, \frac{352}{639}, \frac{122}{639})$ $+ \frac{2}{639}\sqrt{209157}e^3 \otimes e_5$	{13467, 1347, 13678, 1378, 145678, 14578, 1567, 157, 34, 346, 368, 38, 4568, 458, 5, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{16}{1037}\sqrt{222}e^{12}, \frac{1}{1037}\sqrt{95682}e^{34},$ $\frac{4}{1037}\sqrt{6105}e^{17} + \frac{1}{1037}\sqrt{46842}e^{35}$	$(\frac{36}{1037}, -\frac{29}{1037}, -\frac{222}{1037}, \frac{265}{1037}, \frac{265}{1037}, -\frac{186}{1037}, \frac{7}{1037}, \frac{43}{1037}, \frac{43}{1037})$ $+ \frac{1}{1037}\sqrt{169386}e^4 \otimes e_9 + \frac{1}{1037}\sqrt{13394}e^5 \otimes e_8 + \frac{6}{1037}\sqrt{3515}e^1 \otimes e_6$	{12389, 1259, 13457, 1478, 236789, 25679, 3456, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{16}{1037}\sqrt{222}e^{12}, \frac{1}{1037}\sqrt{95682}e^{34},$ $\frac{4}{1037}\sqrt{6105}e^{17} + \frac{1}{1037}\sqrt{46842}e^{35}$	$(\frac{36}{1037}, -\frac{29}{1037}, -\frac{222}{1037}, \frac{265}{1037}, \frac{265}{1037}, -\frac{186}{1037}, \frac{7}{1037}, \frac{43}{1037}, \frac{43}{1037})$ $+ \frac{1}{1037}\sqrt{169386}e^4 \otimes e_9 - \frac{3}{1037}\sqrt{13394}e^5 \otimes e_8 + \frac{6}{1037}\sqrt{3515}e^1 \otimes e_6$	{12389, 1259, 13457, 1478, 236789, 25679, 3456, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{38}e^{12}, \frac{2}{37}\sqrt{38}e^{34}, \frac{2}{37}\sqrt{38}e^{17} + \frac{1}{37}\sqrt{570}e^{35}$	$(\frac{6}{37}, \frac{2}{37}, \frac{9}{37}, -\frac{10}{37}, \frac{5}{37}, -\frac{14}{37}, \frac{8}{37}, -\frac{1}{37}, \frac{14}{37})$ $+ \frac{1}{37}\sqrt{646}e^3 \otimes e_4 + \frac{1}{37}\sqrt{646}e^5 \otimes e_6$	{1235, 1246, 13679, 14579, 2357, 2467, 369, 459}
931:9	$0, 0, 0, 0, 0, 0, \frac{6}{4553}\sqrt{12135}e^{12}, \frac{6}{4553}\sqrt{30742}e^{34},$ $\frac{16}{4553}\sqrt{10517}e^{17} + \frac{2}{4553}\sqrt{580862}e^{35}$	$(\frac{663}{4553}, -\frac{955}{4553}, -\frac{655}{4553}, \frac{63}{4553}, \frac{1026}{4553}, \frac{1989}{4553}, -\frac{292}{4553}, -\frac{592}{4553}, \frac{371}{4553})$ $+ \frac{24}{4553}\sqrt{8899}e^6 \otimes e_9 + \frac{2}{4553}\sqrt{1083251}e^5 \otimes e_8 + \frac{70}{4553}\sqrt{809}e^1 \otimes e_2$	{134567, 14678, 23789, 2579}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{682}e^{12}, \frac{2}{33}\sqrt{186}e^{34}, \frac{1}{33}\sqrt{186}e^{17} + \frac{1}{33}\sqrt{186}e^{35}$	$(-\frac{8}{33}, \frac{2}{3}, -\frac{1}{11}, -\frac{2}{11}, \frac{3}{11}, \frac{2}{11}, \frac{14}{33}, -\frac{3}{11}, \frac{2}{11})$ $+ \frac{1}{11}\sqrt{186}e^2 \otimes e_8$	{1234569, 123459, 1269, 129, 13678, 1378, 145678, 14578, 2345679, 234579, 2679, 279, 368, 38, 4568, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{6}{4105}\sqrt{11543}e^{12}, \frac{6}{4105}\sqrt{30070}e^{34},$ $\frac{48}{4105}\sqrt{194}e^{17} + \frac{6}{4105}\sqrt{88270}e^{35}$	$(\frac{1047}{4105}, -\frac{699}{4105}, \frac{93}{821}, -\frac{1281}{4105}, \frac{186}{821}, \frac{357}{4105}, \frac{348}{4105}, -\frac{816}{4105}, \frac{279}{821})$ $+ \frac{24}{4105}\sqrt{8051}e^3 \otimes e_4 + \frac{6}{4105}\sqrt{143851}e^5 \otimes e_8 + \frac{6}{4105}\sqrt{90889}e^1 \otimes e_2$	{14678, 1478, 236789, 23789}
931:9	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030}e^{12}, \frac{4}{639}\sqrt{23374}e^{34},$ $\frac{2}{639}\sqrt{23777}e^{17} + \frac{2}{639}\sqrt{22971}e^{35}$	$(\frac{7}{213}, \frac{80}{639}, -\frac{55}{639}, \frac{407}{639}, \frac{59}{213}, -\frac{133}{213}, \frac{101}{639}, \frac{352}{639}, \frac{122}{639})$ $+ \frac{2}{639}\sqrt{209157}e^4 \otimes e_6$	{123459, 1235689, 12489, 1269, 1347, 13678, 14578, 1567, 234579, 2356789, 24789, 2679, 34, 368, 458, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{9}{383}\sqrt{482}e^{12}, \frac{2}{383}\sqrt{8194}e^{34},$ $\frac{1}{383}\sqrt{1446}e^{17} + \frac{1}{383}\sqrt{18798}e^{35}$	$(-\frac{36}{383}, \frac{162}{383}, -\frac{59}{383}, -\frac{20}{383}, \frac{149}{383}, -\frac{92}{383}, \frac{126}{383}, -\frac{79}{383}, \frac{90}{383})$ $+ \frac{1}{383}\sqrt{93990}e^2 \otimes e_8 + \frac{2}{383}\sqrt{16870}e^5 \otimes e_6$	{123469, 1259, 13578, 14678, 234679, 2579, 358, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{109}\sqrt{78}e^{12}, \frac{1}{109}\sqrt{2262}e^{34}, \frac{2}{109}\sqrt{273}e^{17} + \frac{2}{109}\sqrt{429}e^{35}$	$(-\frac{6}{109}, \frac{8}{109}, \frac{6}{109}, \frac{35}{109}, -\frac{10}{109}, -\frac{33}{109}, \frac{2}{109}, \frac{41}{109}, -\frac{4}{109})$ $+ \frac{26}{109}\sqrt{6}e^4 \otimes e_9 + \frac{3}{109}\sqrt{390}e^3 \otimes e_6$	{12389, 12569, 13457, 14678, 23789, 25679, 345, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:9	$0, 0, 0, 0, 0, \frac{1}{627}\sqrt{89022}e^{12}, \frac{2}{627}\sqrt{18446}e^{34},$ $\frac{2}{627}\sqrt{1203}e^{17} + \frac{1}{627}\sqrt{76190}e^{35}$	$(-\frac{28}{627}, \frac{74}{209}, -\frac{10}{57}, -\frac{5}{209}, \frac{92}{209}, -\frac{179}{627}, \frac{194}{627}, -\frac{125}{627}, \frac{166}{627})$ $+\frac{14}{627}\sqrt{1203}e^5 \otimes e_8 + \frac{16}{627}\sqrt{802}e^2 \otimes e_6$	{12345, 1248, 136789, 15679, 23457, 2478, 3689, 569}
931:9	$0, 0, 0, 0, 0, \frac{12}{1193}\sqrt{149}e^{12}, \frac{6}{1193}\sqrt{4321}e^{34},$ $\frac{4}{1193}\sqrt{8642}e^{17} + \frac{2}{1193}\sqrt{21605}e^{35}$	$(\frac{105}{1193}, -\frac{193}{1193}, -\frac{298}{1193}, \frac{315}{1193}, \frac{315}{1193}, \frac{108}{1193}, -\frac{88}{1193}, \frac{17}{1193}, \frac{17}{1193})$ $+\frac{12}{1193}\sqrt{1937}e^4 \otimes e_9 + \frac{2}{1193}\sqrt{39485}e^1 \otimes e_2 + \frac{8}{1193}\sqrt{3278}e^5 \otimes e_8$	{134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579}
931:9	$0, 0, 0, 0, 0, \frac{12}{1193}\sqrt{149}e^{12}, \frac{6}{1193}\sqrt{4321}e^{34},$ $\frac{4}{1193}\sqrt{8642}e^{17} + \frac{2}{1193}\sqrt{21605}e^{35}$	$(\frac{105}{1193}, -\frac{193}{1193}, -\frac{298}{1193}, \frac{315}{1193}, \frac{315}{1193}, \frac{108}{1193}, -\frac{88}{1193}, \frac{17}{1193}, \frac{17}{1193})$ $+\frac{12}{1193}\sqrt{1937}e^4 \otimes e_9 + \frac{2}{1193}\sqrt{39485}e^1 \otimes e_2 - \frac{8}{1193}\sqrt{3278}e^5 \otimes e_8$	{134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579}
931:9	$0, 0, 0, 0, 0, \frac{6}{4529}\sqrt{13695}e^{12}, \frac{2}{4529}\sqrt{991518}e^{34},$ $\frac{8}{4529}\sqrt{27390}e^{17} + \frac{2}{4529}\sqrt{107734}e^{35}$	$(\frac{943}{4529}, -\frac{883}{4529}, -\frac{799}{4529}, \frac{775}{4529}, \frac{1802}{4529}, -\frac{1051}{4529}, \frac{60}{4529}, -\frac{24}{4529}, \frac{1003}{4529})$ $+\frac{2}{4529}\sqrt{1052689}e^1 \otimes e_2 + \frac{2}{4529}\sqrt{1383195}e^5 \otimes e_8 + \frac{8}{4529}\sqrt{83083}e^4 \otimes e_6$	{13457, 1478, 236789, 25679}
931:9	$0, 0, 0, 0, 0, \frac{6}{217}\sqrt{73}e^{12}, \frac{12}{217}\sqrt{73}e^{34}, \frac{8}{217}\sqrt{146}e^{17} + \frac{4}{217}\sqrt{365}e^{35}$	$(\frac{75}{217}, -\frac{71}{217}, -\frac{29}{217}, -\frac{9}{217}, \frac{108}{217}, \frac{27}{217}, \frac{4}{217}, -\frac{38}{217}, \frac{79}{217})$ $+\frac{2}{217}\sqrt{6497}e^1 \otimes e_2 + \frac{2}{217}\sqrt{7373}e^5 \otimes e_8$	{134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579}
931:9	$0, 0, 0, 0, 0, \frac{5}{49}\sqrt{3}e^{12}, \frac{10}{49}\sqrt{3}e^{34}, \frac{10}{49}\sqrt{3}e^{17} + \frac{10}{49}e^{35}$	$(\frac{25}{98}, -\frac{25}{98}, \frac{10}{49}, -\frac{15}{49}, \frac{5}{98}, \frac{20}{49}, 0, -\frac{5}{49}, \frac{25}{98})$ $+\frac{15}{49}\sqrt{3}e^3 \otimes e_4 + \frac{5}{49}\sqrt{31}e^1 \otimes e_2 + \frac{5}{49}\sqrt{31}e^6 \otimes e_8$	{13578, 1478, 23789, 245789}
931:9	$0, 0, 0, 0, 0, \frac{12}{521}\sqrt{65}e^{12}, \frac{6}{521}\sqrt{1313}e^{34}, \frac{12}{521}\sqrt{546}e^{17} + \frac{6}{521}\sqrt{221}e^{35}$	$(\frac{73}{521}, -\frac{161}{521}, -\frac{58}{521}, \frac{219}{521}, \frac{43}{521}, \frac{60}{521}, -\frac{88}{521}, \frac{161}{521}, -\frac{15}{521})$ $+\frac{156}{521}\sqrt{5}e^4 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^1 \otimes e_2$	{134567, 13457, 14678, 1478, 236789, 23789, 25679, 2579}
931:9	$0, 0, 0, 0, 0, \frac{1}{9}\sqrt{69}e^{12}, \frac{1}{18}\sqrt{46}e^{34}, \frac{1}{18}\sqrt{46}e^{17} + \frac{1}{18}\sqrt{23}e^{35}$	$(-\frac{7}{36}, \frac{2}{3}, \frac{1}{9}, \frac{5}{36}, \frac{1}{6}, -\frac{11}{18}, \frac{17}{36}, \frac{1}{4}, \frac{5}{18})$ $+\frac{1}{18}\sqrt{667}e^2 \otimes e_6$	{12349, 12389, 124589, 1259, 134567, 135678, 14678, 167, 23479, 23789, 245789, 2579, 3456, 3568, 468, 6}
931:9	$0, 0, 0, 0, 0, \frac{8}{1097}\sqrt{362}e^{12}, \frac{2}{1097}\sqrt{41449}e^{34},$ $\frac{4}{1097}\sqrt{1086}e^{17} + \frac{2}{1097}\sqrt{39277}e^{35}$	$(\frac{233}{1097}, -\frac{129}{1097}, \frac{54}{1097}, -\frac{133}{1097}, \frac{283}{1097}, -\frac{308}{1097}, \frac{104}{1097}, -\frac{79}{1097}, \frac{337}{1097})$ $+\frac{4}{1097}\sqrt{34933}e^1 \otimes e_2 + \frac{4}{1097}\sqrt{18281}e^3 \otimes e_6 + \frac{4}{1097}\sqrt{18281}e^5 \otimes e_8$	{13457, 14678, 23789, 25679}
931:9	$0, 0, 0, 0, 0, \frac{1}{81}\sqrt{910}e^{12}, \frac{2}{81}\sqrt{91}e^{34}, \frac{2}{81}\sqrt{910}e^{17} + \frac{7}{81}\sqrt{78}e^{35}$	$(-\frac{10}{81}, \frac{10}{81}, -\frac{4}{81}, \frac{17}{81}, -\frac{2}{27}, 1, 0, \frac{13}{81}, -\frac{10}{81})$ $+\frac{2}{81}\sqrt{3003}e^6 \otimes e_9$	{123489, 1239, 12459, 12589, 1345678, 13567, 1467, 1678, 234789, 2379, 24579, 25789, 34568, 356, 46, 68}
931:9	$0, 0, 0, 0, 0, \frac{2}{1731}\sqrt{74481}e^{12}, \frac{2}{1731}\sqrt{44957}e^{34},$ $\frac{1}{1731}\sqrt{151646}e^{17} + \frac{1}{1731}\sqrt{438834}e^{35}$	$(\frac{331}{1731}, -\frac{59}{1731}, \frac{67}{577}, -\frac{470}{1731}, \frac{134}{577}, -\frac{340}{1731}, \frac{272}{1731}, -\frac{269}{1731}, \frac{201}{577})$ $+\frac{1}{1731}\sqrt{669658}e^3 \otimes e_4 + \frac{1}{1731}\sqrt{675026}e^1 \otimes e_6 + \frac{2}{1731}\sqrt{189893}e^5 \otimes e_8$	{12389, 1478, 236789, 468}
931:9	$0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030}e^{12}, \frac{2}{639}\sqrt{23777}e^{34},$ $\frac{4}{639}\sqrt{23374}e^{17} + \frac{2}{639}\sqrt{22971}e^{35}$	$(\frac{367}{639}, -\frac{439}{639}, \frac{118}{639}, \frac{61}{639}, \frac{59}{213}, \frac{40}{213}, -\frac{8}{71}, \frac{179}{639}, \frac{295}{639})$ $+\frac{2}{639}\sqrt{209157}e^1 \otimes e_2$	{13467, 1347, 13678, 1378, 145678, 14578, 1567, 157, 2345679, 234579, 2356789, 235789, 246789, 24789, 2679, 279}
931:9	$0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7770}e^{12}, \frac{1}{391}\sqrt{45066}e^{34},$ $\frac{1}{391}\sqrt{45066}e^{17} + \frac{1}{391}\sqrt{22274}e^{35}$	$(\frac{116}{391}, -\frac{143}{391}, \frac{1}{391}, -\frac{42}{391}, \frac{88}{391}, \frac{218}{391}, -\frac{27}{391}, -\frac{41}{391}, \frac{89}{391})$ $+\frac{1}{391}\sqrt{89614}e^1 \otimes e_2 + \frac{1}{391}\sqrt{89614}e^6 \otimes e_8$	{13467, 1378, 14578, 1567, 2345679, 235789, 24789, 2679}
931:9	$0, 0, 0, 0, 0, \frac{9}{461}\sqrt{178}e^{12}, \frac{9}{461}\sqrt{286}e^{34}, \frac{9}{461}\sqrt{266}e^{17} + \frac{90}{461}e^{35}$	$(\frac{45}{461}, -\frac{45}{461}, \frac{63}{461}, -\frac{99}{461}, -\frac{18}{461}, \frac{126}{461}, 0, -\frac{36}{461}, \frac{45}{461})$ $+\frac{18}{461}\sqrt{41}e^6 \otimes e_9 + \frac{36}{461}\sqrt{14}e^3 \otimes e_5 + \frac{9}{461}\sqrt{446}e^1 \otimes e_8$	{13467, 1567, 368, 4568}
931:9	$0, 0, 0, 0, 0, \frac{3}{367}\sqrt{3806}e^{12}, \frac{2}{367}\sqrt{9515}e^{34},$ $\frac{2}{367}\sqrt{9515}e^{17} + \frac{1}{367}\sqrt{11418}e^{35}$	$(\frac{88}{367}, -\frac{48}{367}, \frac{44}{367}, -\frac{129}{367}, \frac{84}{367}, \frac{51}{367}, \frac{40}{367}, -\frac{85}{367}, \frac{128}{367})$ $+\frac{2}{367}\sqrt{21279}e^1 \otimes e_8 + \frac{2}{367}\sqrt{6055}e^3 \otimes e_4$	{2356789, 235789, 246789, 24789, 368, 38, 4568, 458}
931:9	$0, 0, 0, 0, 0, \frac{1}{542}\sqrt{49922}e^{12}, \frac{1}{542}\sqrt{92058}e^{34},$ $\frac{1}{542}\sqrt{18091}e^{17} + \frac{1}{542}\sqrt{27938}e^{35}$	$(-\frac{91}{542}, \frac{109}{271}, \frac{265}{1084}, -\frac{287}{1084}, -\frac{193}{1084}, \frac{115}{1084}, \frac{127}{542}, -\frac{11}{542}, \frac{18}{271})$ $+\frac{1}{542}\sqrt{98470}e^3 \otimes e_5 + \frac{7}{542}\sqrt{2519}e^2 \otimes e_8$	{13678, 1378, 145678, 14578, 368, 38, 4568, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7770}e^{12}, \frac{1}{391}\sqrt{45066}e^{34},$ $\frac{1}{391}\sqrt{45066}e^{17} + \frac{1}{391}\sqrt{22274}e^{35}$	$(\frac{116}{391}, -\frac{143}{391}, \frac{1}{391}, \frac{131}{391}, \frac{88}{391}, -\frac{128}{391}, -\frac{27}{391}, \frac{132}{391}, \frac{89}{391})$ $+ \frac{1}{391}\sqrt{89614}e^1 \otimes e_2 + \frac{1}{391}\sqrt{89614}e^4 \otimes e_6$	{1347, 13678, 14578, 1567, 234579, 2356789, 24789, 2679}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{1971}\sqrt{415774}e^{12}, \frac{1}{1971}\sqrt{726910}e^{34},$ $\frac{1}{1971}\sqrt{534302}e^{17} + \frac{16}{1971}\sqrt{1389}e^{35}$	$(\frac{107}{657}, -\frac{239}{1971}, -\frac{191}{1971}, \frac{49}{1971}, \frac{22}{73}, -\frac{46}{219}, \frac{82}{1971}, -\frac{142}{1971}, \frac{403}{1971})$ $+ \frac{1}{1971}\sqrt{1052862}e^1 \otimes e_8 + \frac{4}{1971}\sqrt{36114}e^4 \otimes e_6$	{123459, 1269, 1347, 1567, 2356789, 24789, 368, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{4}{259}\sqrt{426}e^{12}, \frac{3}{259}\sqrt{710}e^{34}, \frac{2}{259}\sqrt{2485}e^{17} + \frac{3}{259}\sqrt{142}e^{35}$	$(\frac{26}{259}, -\frac{3}{37}, \frac{13}{259}, -\frac{58}{259}, \frac{18}{259}, \frac{102}{259}, \frac{5}{259}, -\frac{45}{259}, \frac{31}{259})$ $+ \frac{3}{259}\sqrt{1846}e^1 \otimes e_8 + \frac{4}{259}\sqrt{355}e^3 \otimes e_4 + \frac{5}{259}\sqrt{426}e^6 \otimes e_9$	{23789, 245789, 3568, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{9}{383}\sqrt{482}e^{12}, \frac{1}{383}\sqrt{1446}e^{34},$ $\frac{2}{383}\sqrt{8194}e^{17} + \frac{1}{383}\sqrt{18798}e^{35}$	$(\frac{94}{383}, -\frac{33}{383}, \frac{146}{383}, -\frac{95}{383}, \frac{9}{383}, -\frac{147}{383}, \frac{61}{383}, \frac{51}{383}, \frac{155}{383})$ $+ \frac{1}{383}\sqrt{93990}e^1 \otimes e_6 + \frac{2}{383}\sqrt{16870}e^3 \otimes e_4$	{12389, 124589, 13578, 1478, 236789, 2456789, 3568, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{1691}\sqrt{41415}e^{12}, \frac{5}{1691}\sqrt{1506}e^{34},$ $\frac{1}{1691}\sqrt{584830}e^{17} + \frac{9}{1691}\sqrt{7530}e^{35}$	$(\frac{643}{1691}, -\frac{612}{1691}, -\frac{30}{1691}, \frac{213}{1691}, \frac{704}{1691}, -\frac{29}{89}, \frac{31}{1691}, \frac{183}{1691}, \frac{674}{1691})$ $+ \frac{1}{1691}\sqrt{1879990}e^5 \otimes e_6 + \frac{4}{1691}\sqrt{116715}e^1 \otimes e_2$	{134578, 1357, 1467, 1678, 2346789, 23679, 24579, 25789}
931:9	$0, 0, 0, 0, 0, 0, \frac{3}{487}\sqrt{1166}e^{12}, \frac{2}{487}\sqrt{4505}e^{34},$ $\frac{2}{487}\sqrt{4505}e^{17} + \frac{1}{487}\sqrt{3498}e^{35}$	$(\frac{28}{487}, -\frac{48}{487}, -\frac{86}{487}, \frac{61}{487}, \frac{94}{487}, \frac{41}{487}, -\frac{20}{487}, -\frac{25}{487}, \frac{8}{487})$ $+ \frac{2}{487}\sqrt{265}e^5 \otimes e_6 + \frac{2}{487}\sqrt{6519}e^1 \otimes e_8 + \frac{6}{487}\sqrt{530}e^4 \otimes e_9$	{1269, 13467, 235789, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{603}\sqrt{7414}e^{12}, \frac{2}{603}\sqrt{18535}e^{34},$ $\frac{2}{603}\sqrt{18535}e^{17} + \frac{1}{603}\sqrt{37070}e^{35}$	$(-\frac{130}{603}, \frac{22}{67}, -\frac{86}{603}, \frac{275}{603}, \frac{8}{201}, -\frac{139}{603}, \frac{68}{603}, \frac{21}{67}, -\frac{62}{603})$ $+ \frac{2}{201}\sqrt{5729}e^4 \otimes e_9 + \frac{2}{603}\sqrt{36733}e^2 \otimes e_6$	{12389, 1259, 134567, 14678, 23789, 2579, 3456, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{667}\sqrt{20294}e^{12}, \frac{4}{667}\sqrt{2190}e^{34},$ $\frac{4}{667}\sqrt{2190}e^{17} + \frac{1}{667}\sqrt{7738}e^{35}$	$(\frac{38}{667}, -\frac{68}{667}, -\frac{4}{23}, \frac{81}{667}, \frac{124}{667}, \frac{71}{667}, -\frac{30}{667}, -\frac{35}{667}, \frac{8}{667})$ $+ \frac{10}{667}\sqrt{365}e^4 \otimes e_9 + \frac{2}{667}\sqrt{12629}e^1 \otimes e_8$	{1269, 129, 13467, 1347, 2356789, 235789, 4568, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{393}e^{12}, \frac{1}{103}\sqrt{1834}e^{34},$ $\frac{1}{103}\sqrt{1834}e^{17} + \frac{1}{103}\sqrt{10218}e^{35}$	$(\frac{19}{103}, \frac{12}{103}, \frac{71}{103}, -\frac{60}{103}, -\frac{21}{103}, \frac{18}{103}, \frac{31}{103}, \frac{11}{103}, \frac{50}{103})$ $+ \frac{1}{103}\sqrt{22270}e^3 \otimes e_4$	{1235, 12356, 124, 1246, 13679, 1379, 145679, 14579, 23567, 2357, 2467, 247, 369, 39, 4569, 459}
931:9	$0, 0, 0, 0, 0, 0, \frac{19}{1073}\sqrt{66}e^{12}, \frac{19}{1073}\sqrt{258}e^{34},$ $\frac{19}{1073}\sqrt{454}e^{17} + \frac{19}{1073}\sqrt{282}e^{35}$	$(\frac{133}{1073}, -\frac{228}{1073}, -\frac{171}{1073}, \frac{399}{1073}, \frac{209}{1073}, -\frac{152}{1073}, -\frac{95}{1073}, \frac{228}{1073}, \frac{38}{1073})$ $+ \frac{19}{1073}\sqrt{502}e^5 \otimes e_6 + \frac{19}{1073}\sqrt{858}e^4 \otimes e_9 + \frac{266}{1073}\sqrt{3}e^1 \otimes e_2$	{13457, 14678, 236789, 2579}
931:9	$0, 0, 0, 0, 0, 0, \frac{29}{1577}\sqrt{682}e^{12}, \frac{2}{1577}\sqrt{128557}e^{34},$ $\frac{22}{1577}\sqrt{899}e^{17} + \frac{3}{1577}\sqrt{19778}e^{35}$	$(-\frac{356}{1577}, \frac{638}{1577}, -\frac{180}{1577}, -\frac{81}{1577}, \frac{106}{1577}, \frac{825}{1577}, \frac{282}{1577}, -\frac{261}{1577}, -\frac{74}{1577})$ $+ \frac{4}{1577}\sqrt{84506}e^2 \otimes e_8 + \frac{62}{1577}\sqrt{290}e^6 \otimes e_9$	{12349, 1259, 135678, 14678, 23479, 2579, 3568, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{9}{353}\sqrt{19}e^{12}, \frac{36}{353}\sqrt{15}e^{34}, \frac{9}{353}\sqrt{106}e^{17} + \frac{9}{353}\sqrt{14}e^{35}$	$(-\frac{34}{353}, \frac{19}{353}, \frac{16}{353}, \frac{32}{353}, -\frac{65}{353}, \frac{129}{353}, -\frac{15}{353}, \frac{48}{353}, -\frac{49}{353})$ $+ \frac{9}{353}\sqrt{201}e^3 \otimes e_5 + \frac{9}{353}\sqrt{201}e^6 \otimes e_8 + \frac{9}{353}\sqrt{247}e^4 \otimes e_9$	{13467, 14578, 346, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{542}\sqrt{49922}e^{12}, \frac{1}{542}\sqrt{92058}e^{34},$ $\frac{1}{542}\sqrt{18091}e^{17} + \frac{1}{542}\sqrt{27938}e^{35}$	$(-\frac{91}{542}, \frac{109}{271}, -\frac{165}{1084}, \frac{143}{1084}, \frac{237}{1084}, -\frac{315}{1084}, \frac{127}{542}, -\frac{11}{542}, \frac{18}{271})$ $+ \frac{1}{542}\sqrt{98470}e^4 \otimes e_6 + \frac{7}{542}\sqrt{2519}e^2 \otimes e_8$	{123459, 1269, 13678, 14578, 234579, 2679, 368, 458}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{155}\sqrt{237}e^{12}, \frac{1}{155}\sqrt{3002}e^{34},$ $\frac{1}{155}\sqrt{3002}e^{17} + \frac{1}{155}\sqrt{6162}e^{35}$	$(-\frac{7}{155}, \frac{12}{155}, -\frac{8}{31}, \frac{77}{155}, \frac{38}{155}, -\frac{41}{155}, \frac{1}{31}, \frac{37}{155}, -\frac{2}{155})$ $+ \frac{1}{155}\sqrt{9322}e^5 \otimes e_6 + \frac{2}{155}\sqrt{3081}e^4 \otimes e_9$	{123689, 1259, 13457, 14678, 236789, 2579, 345, 468}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{576}\sqrt{11590}e^{12}, \frac{1}{288}\sqrt{32635}e^{34},$ $\frac{1}{576}\sqrt{25010}e^{17} + \frac{1}{288}\sqrt{10065}e^{35}$	$(-\frac{1}{192}, \frac{19}{288}, \frac{337}{1152}, -\frac{157}{576}, \frac{384}{384}, \frac{384}{576}, \frac{211}{576}, \frac{35}{1152}, \frac{23}{18})$ $+ \frac{1}{576}\sqrt{158295}e^3 \otimes e_5 + \frac{1}{576}\sqrt{158295}e^6 \otimes e_8$	{13467, 1378, 14578, 1567, 346, 38, 458, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{910}e^{12}, \frac{2}{81}\sqrt{910}e^{34}, \frac{2}{81}\sqrt{91}e^{17} + \frac{7}{81}\sqrt{78}e^{35}$	$(\frac{4}{27}, \frac{10}{81}, -\frac{26}{81}, -\frac{5}{27}, \frac{20}{27}, \frac{5}{27}, \frac{22}{81}, -\frac{31}{81}, \frac{34}{81})$ $+ \frac{2}{81}\sqrt{3003}e^5 \otimes e_8$	{12345, 123456, 12468, 1248, 136789, 13789, 15679, 1579, 234567, 23457, 24678, 2478, 3689, 389, 569, 59}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{159}\sqrt{4558}e^{12}, \frac{1}{53}\sqrt{430}e^{34}, \frac{1}{53}\sqrt{430}e^{17} + \frac{4}{159}\sqrt{129}e^{35}$	$(\frac{13}{159}, \frac{13}{159}, -\frac{1}{53}, -\frac{9}{53}, \frac{14}{53}, -\frac{10}{53}, \frac{26}{159}, -\frac{10}{53}, \frac{13}{53})$ $+ \frac{1}{159}\sqrt{7998}e^1 \otimes e_8 + \frac{4}{159}\sqrt{258}e^2 \otimes e_6$	{123459, 129, 13467, 1567, 235789, 24789, 368, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:9	$0, 0, 0, 0, 0, 0, \frac{6}{217}\sqrt{73}e^{12}, \frac{12}{217}\sqrt{73}e^{34}, \frac{8}{217}\sqrt{146}e^{17} + \frac{4}{217}\sqrt{365}e^{35}$	$(\frac{75}{217}, -\frac{71}{217}, \frac{72}{217}, -\frac{9}{217}, \frac{1}{31}, -\frac{74}{217}, \frac{4}{217}, \frac{9}{31}, \frac{79}{217})$ $+ \frac{2}{217}\sqrt{6497}e^1 \otimes e_2 + \frac{2}{217}\sqrt{7373}e^3 \otimes e_6$	{13457, 13578, 14678, 167, 23479, 23789, 2456789, 25679}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{109}\sqrt{1118}e^{12}, \frac{2}{109}\sqrt{86}e^{34}, \frac{2}{109}\sqrt{129}e^{17} + \frac{3}{109}\sqrt{258}e^{35}$	$(\frac{2}{109}, \frac{26}{109}, \frac{13}{109}, -\frac{30}{109}, \frac{17}{109}, -\frac{26}{109}, \frac{28}{109}, -\frac{17}{109}, \frac{30}{109})$ $+ \frac{1}{109}\sqrt{3010}e^3 \otimes e_4 + \frac{1}{109}\sqrt{3010}e^5 \otimes e_6 + \frac{2}{109}\sqrt{645}e^2 \otimes e_8$	{136789, 145789, 3689, 4589}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{1052}\sqrt{5837}e^{12}, \frac{1}{526}\sqrt{16613}e^{34}, \frac{1}{1052}\sqrt{898}e^{17} + \frac{5}{526}\sqrt{2694}e^{35}$	$(\frac{69}{263}, \frac{173}{1052}, \frac{453}{2104}, -\frac{445}{2104}, \frac{305}{2104}, -\frac{593}{2104}, \frac{103}{1052}, \frac{1}{263}, \frac{379}{1052})$ $+ \frac{15}{1052}\sqrt{898}e^1 \otimes e_2 + \frac{1}{1052}\sqrt{336301}e^3 \otimes e_4 + \frac{1}{1052}\sqrt{336301}e^5 \otimes e_6$	{1357, 1467, 23679, 24579}
931:9	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{4030}e^{12}, \frac{4}{639}\sqrt{23374}e^{34}, \frac{2}{639}\sqrt{23777}e^{17} + \frac{2}{639}\sqrt{22971}e^{35}$	$(\frac{7}{213}, \frac{80}{639}, -\frac{55}{639}, -\frac{112}{639}, \frac{59}{213}, 1, \frac{101}{639}, -\frac{167}{639}, \frac{122}{639})$ $+ \frac{2}{639}\sqrt{209157}e^6 \otimes e_8$	{1234569, 123589, 12489, 1269, 13467, 1378, 14578, 1567, 2345679, 235789, 24789, 2679, 346, 38, 458, 56}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{585}\sqrt{8626}e^{12}, \frac{2}{585}\sqrt{16117}e^{34}, \frac{2}{585}\sqrt{3859}e^{17} + \frac{1}{585}\sqrt{72186}e^{35}$	$(\frac{8}{65}, \frac{38}{585}, \frac{4}{117}, -\frac{17}{117}, \frac{18}{65}, -\frac{23}{65}, \frac{22}{117}, -\frac{1}{9}, \frac{14}{45})$ $+ \frac{4}{585}\sqrt{7491}e^3 \otimes e_6 + \frac{4}{585}\sqrt{7491}e^5 \otimes e_8$	{12345, 12468, 13789, 15679, 23457, 24678, 389, 569}
931:9	$0, 0, 0, 0, 0, 0, \frac{9}{383}\sqrt{482}e^{12}, \frac{2}{383}\sqrt{8194}e^{34}, \frac{1}{383}\sqrt{1446}e^{17} + \frac{1}{383}\sqrt{18798}e^{35}$	$(-\frac{36}{383}, \frac{162}{383}, \frac{81}{383}, -\frac{160}{383}, \frac{9}{383}, \frac{48}{383}, \frac{126}{383}, -\frac{79}{383}, \frac{90}{383})$ $+ \frac{1}{383}\sqrt{93990}e^2 \otimes e_8 + \frac{2}{383}\sqrt{16870}e^3 \otimes e_4$	{135678, 13578, 14678, 1478, 3568, 358, 468, 48}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{43282}e^{12}, \frac{2}{2097}\sqrt{7973}e^{34}, \frac{7}{2097}\sqrt{29614}e^{17} + \frac{2}{2097}\sqrt{105927}e^{35}$	$(\frac{403}{2097}, -\frac{736}{2097}, \frac{28}{2097}, \frac{214}{2097}, \frac{14}{2097}, \frac{403}{2097}, -\frac{37}{2097}, \frac{242}{2097}, \frac{70}{2097})$ $+ \frac{1}{699}\sqrt{248302}e^6 \otimes e_9 + \frac{4}{2097}\sqrt{126429}e^1 \otimes e_2$	{134567, 135678, 14678, 167, 23479, 23789, 245789, 2579}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{627}\sqrt{99590}e^{12}, \frac{2}{627}\sqrt{4330}e^{34}, \frac{2}{627}\sqrt{4330}e^{17} + \frac{1}{627}\sqrt{113446}e^{35}$	$(-\frac{8}{209}, \frac{230}{627}, \frac{22}{57}, -\frac{191}{627}, -\frac{20}{209}, -\frac{203}{627}, \frac{206}{627}, \frac{17}{209}, \frac{182}{627})$ $+ \frac{2}{627}\sqrt{59321}e^2 \otimes e_6 + \frac{2}{627}\sqrt{61053}e^3 \otimes e_4$	{1235, 124, 13679, 145679, 2357, 247, 369, 4569}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{2081}\sqrt{151662}e^{12}, \frac{2}{2081}\sqrt{90118}e^{34}, \frac{18}{2081}\sqrt{1099}e^{17} + \frac{21}{2081}\sqrt{3454}e^{35}$	$(\frac{300}{2081}, \frac{138}{2081}, \frac{246}{2081}, \frac{853}{2081}, \frac{492}{2081}, \frac{207}{2081}, \frac{438}{2081}, -\frac{607}{2081}, \frac{738}{2081})$ $+ \frac{112}{2081}\sqrt{157}e^3 \otimes e_4 + \frac{2}{2081}\sqrt{537411}e^5 \otimes e_8$	{12468, 1248, 136789, 13789, 24678, 2478, 3689, 389}
931:9	$0, 0, 0, 0, 0, 0, \frac{1}{1937}\sqrt{501882}e^{12}, \frac{2}{1937}\sqrt{221583}e^{34}, \frac{8}{1937}\sqrt{7689}e^{17} + \frac{1}{1937}\sqrt{48930}e^{35}$	$(-\frac{480}{1937}, \frac{718}{1937}, -\frac{438}{1937}, \frac{457}{1937}, \frac{196}{1937}, \frac{231}{1937}, \frac{238}{1937}, \frac{19}{1937}, -\frac{242}{1937})$ $+ \frac{2}{1937}\sqrt{300570}e^4 \otimes e_9 + \frac{6}{1937}\sqrt{32853}e^2 \otimes e_8$	{12569, 1259, 14678, 1478, 25679, 2579, 468, 48}
931:9	$0, 0, 0, 0, 0, 0, \frac{2}{2097}\sqrt{43282}e^{12}, \frac{7}{2097}\sqrt{29614}e^{34}, \frac{2}{2097}\sqrt{7973}e^{17} + \frac{2}{2097}\sqrt{105927}e^{35}$	$(\frac{46}{699}, \frac{152}{2097}, -\frac{595}{2097}, \frac{479}{2097}, \frac{341}{699}, -\frac{220}{699}, \frac{290}{2097}, -\frac{116}{2097}, \frac{428}{2097})$ $+ \frac{1}{699}\sqrt{248302}e^5 \otimes e_8 + \frac{4}{2097}\sqrt{126429}e^4 \otimes e_6$	{123689, 12569, 13457, 1478, 236789, 25679, 345, 48}
931:9	$0, 0, 0, 0, 0, 0, \frac{12}{521}\sqrt{65}e^{12}, \frac{12}{521}\sqrt{546}e^{34}, \frac{6}{521}\sqrt{1313}e^{17} + \frac{6}{521}\sqrt{221}e^{35}$	$(-\frac{61}{521}, \frac{40}{521}, \frac{125}{521}, \frac{152}{521}, \frac{43}{521}, \frac{261}{521}, -\frac{21}{521}, \frac{27}{521}, -\frac{82}{521})$ $+ \frac{156}{521}\sqrt{5}e^4 \otimes e_9 + \frac{6}{521}\sqrt{2613}e^6 \otimes e_8$	{12389, 12569, 134567, 1478, 23789, 25679, 3456, 48}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{751}\sqrt{20305}e^{12}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{8}{751}\sqrt{2227}e^{45}, \frac{4}{751}\sqrt{5502}e^{17}$	$(-\frac{170}{751}, \frac{245}{751}, \frac{153}{751}, \frac{167}{751}, -\frac{184}{751}, \frac{88}{751}, \frac{75}{751}, -\frac{17}{751}, -\frac{95}{751})$ $+ \frac{4}{751}\sqrt{10218}e^2 \otimes e_8 + \frac{6}{751}\sqrt{5109}e^4 \otimes e_9$	{1269, 129, 134678, 13478, 23679, 2379, 468, 48}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{105}\sqrt{473}e^{12}, \frac{1}{21}\sqrt{86}e^{13} + \frac{1}{105}\sqrt{602}e^{45}, \frac{1}{105}\sqrt{602}e^{17}$	$(-\frac{6}{35}, \frac{2}{15}, \frac{1}{5}, \frac{23}{105}, -\frac{4}{21}, \frac{46}{105}, -\frac{4}{105}, \frac{1}{35}, -\frac{22}{105})$ $+ \frac{1}{21}\sqrt{129}e^3 \otimes e_9 + \frac{1}{21}\sqrt{129}e^6 \otimes e_8 + \frac{43}{105}e^4 \otimes e_5$	{1489, 1589, 2348, 2358}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{30}\sqrt{322}e^{12}, \frac{1}{30}\sqrt{115}e^{13} + \frac{1}{15}\sqrt{23}e^{45}, \frac{1}{15}\sqrt{23}e^{17}$	$(-\frac{1}{10}, \frac{23}{60}, \frac{1}{5}, \frac{13}{30}, -\frac{1}{3}, -\frac{23}{60}, \frac{17}{60}, \frac{1}{10}, \frac{11}{60})$ $+ \frac{1}{30}\sqrt{690}e^2 \otimes e_6 + \frac{23}{30}e^4 \otimes e_5$	{123489, 123589, 134678, 135678, 24789, 25789, 468, 568}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{1}{1451}\sqrt{426622}e^{45}, \frac{22}{1451}\sqrt{983}e^{17}$	$(\frac{467}{1451}, -\frac{516}{1451}, \frac{51}{1451}, \frac{559}{1451}, -\frac{41}{1451}, -\frac{424}{1451}, -\frac{49}{1451}, \frac{518}{1451}, \frac{418}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^1 \otimes e_2 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_6$	{13457, 1367, 1478, 15678, 234789, 2356789, 24579, 2679}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{587}\sqrt{642}e^{12}, \frac{10}{587}\sqrt{321}e^{13} + \frac{2}{587}\sqrt{642}e^{45}, \frac{1}{587}\sqrt{114918}e^{17}$	$(\frac{104}{587}, -\frac{217}{587}, \frac{12}{587}, \frac{58}{587}, \frac{58}{587}, \frac{312}{587}, -\frac{113}{587}, \frac{116}{587}, -\frac{9}{587})$ $+ \frac{10}{587}\sqrt{1605}e^6 \otimes e_9 + \frac{9}{587}\sqrt{7062}e^1 \otimes e_2$	{134567, 1367, 14678, 234789, 24579, 279}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{31}\sqrt{5}e^{12}, \frac{8}{31}\sqrt{6}e^{13} + \frac{4}{31}\sqrt{5}e^{45}, \frac{4}{31}\sqrt{5}e^{17}$	$(-\frac{5}{93}, \frac{14}{93}, \frac{11}{31}, \frac{50}{93}, -\frac{22}{93}, -\frac{13}{31}, \frac{3}{31}, \frac{28}{93}, \frac{4}{93})$ $+\frac{16}{31}\sqrt{3}e^3 \otimes e_6 + \frac{24}{31}e^4 \otimes e_5$	{123479, 123579, 134, 135, 2469, 2569, 467, 567}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{455}e^{12}, \frac{12}{257}\sqrt{130}e^{13} + \frac{4}{257}\sqrt{455}e^{45}, \frac{10}{257}\sqrt{39}e^{17}$	$(-\frac{58}{257}, \frac{128}{257}, \frac{56}{257}, -\frac{1}{257}, -\frac{1}{257}, -\frac{74}{257}, \frac{70}{257}, -\frac{2}{257}, \frac{12}{257})$ $+\frac{2}{257}\sqrt{6565}e^3 \otimes e_6 + \frac{2}{257}\sqrt{8385}e^2 \otimes e_8$	{123, 12345, 146789, 24567, 267, 3489}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{185}\sqrt{583}e^{12}, \frac{2}{185}\sqrt{583}e^{13} + \frac{2}{185}\sqrt{1749}e^{45}, \frac{4}{185}\sqrt{583}e^{17}$	$(\frac{44}{185}, -\frac{4}{37}, -\frac{62}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{88}{185}, \frac{24}{185}, -\frac{18}{185}, \frac{68}{185})$ $+\frac{16}{185}\sqrt{53}e^6 \otimes e_8 + \frac{2}{185}\sqrt{5141}e^1 \otimes e_3$	{124569, 1269, 14567, 167, 2345679, 23679, 3456, 36}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{509}\sqrt{32370}e^{12}, \frac{1}{509}\sqrt{54282}e^{13} + \frac{1}{509}\sqrt{32370}e^{45}, \frac{2}{509}\sqrt{6474}e^{17}$	$(-\frac{166}{509}, \frac{239}{509}, \frac{156}{509}, -\frac{5}{509}, -\frac{5}{509}, \frac{60}{509}, \frac{73}{509}, -\frac{10}{509}, -\frac{93}{509})$ $+\frac{1}{509}\sqrt{102090}e^3 \otimes e_9 + \frac{2}{509}\sqrt{30378}e^2 \otimes e_8$	{245679, 24579, 2679, 279, 3468, 348}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{37}\sqrt{322}e^{12}, \frac{2}{37}\sqrt{115}e^{13} + \frac{4}{37}\sqrt{23}e^{45}, \frac{4}{37}\sqrt{23}e^{17}$	$(-\frac{6}{37}, \frac{23}{37}, \frac{12}{37}, \frac{3}{37}, \frac{3}{37}, -\frac{23}{37}, \frac{17}{37}, \frac{6}{37}, \frac{11}{37})$ $+\frac{2}{37}\sqrt{690}e^2 \otimes e_6$	{123489, 12459, 129, 134678, 14567, 167, 234579, 2379, 24789, 3456, 36, 468}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}e^{13} + \frac{8}{17}e^{45}, \frac{4}{17}\sqrt{5}e^{17}$	$(\frac{5}{17}, -\frac{3}{17}, -\frac{3}{17}, \frac{4}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{2}{17}, \frac{7}{17})$ $+\frac{12}{17}e^1 \otimes e_3 + \frac{4}{17}\sqrt{6}e^4 \otimes e_6$	{12459, 1269, 1457, 167, 234579, 23679, 345, 36}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{461}\sqrt{15010}e^{12}, \frac{2}{461}\sqrt{8611}e^{13} + \frac{4}{461}\sqrt{1027}e^{45}, \frac{4}{461}\sqrt{2607}e^{17}$	$(\frac{74}{461}, \frac{31}{461}, -\frac{84}{461}, -\frac{5}{461}, -\frac{5}{461}, -\frac{127}{461}, \frac{105}{461}, -\frac{10}{461}, \frac{179}{461})$ $+\frac{2}{461}\sqrt{13746}e^2 \otimes e_6 + \frac{8}{461}\sqrt{1185}e^1 \otimes e_3$	{12459, 129, 14567, 167, 234579, 2379, 3456, 36}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{285}\sqrt{618}e^{12}, \frac{2}{57}\sqrt{206}e^{13} + \frac{2}{285}\sqrt{618}e^{45}, \frac{4}{285}\sqrt{1133}e^{17}$	$(-\frac{56}{285}, \frac{2}{15}, \frac{44}{95}, \frac{47}{95}, -\frac{13}{57}, \frac{32}{285}, -\frac{6}{95}, \frac{4}{15}, -\frac{74}{285})$ $+\frac{206}{285}e^4 \otimes e_5 + \frac{2}{57}\sqrt{618}e^3 \otimes e_9$	{123467, 12347, 123567, 12357, 4679, 479, 5679, 579}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{1495}\sqrt{642}e^{12}, \frac{4}{299}\sqrt{321}e^{13} + \frac{4}{1495}\sqrt{642}e^{45}, \frac{2}{1495}\sqrt{114918}e^{17}$	$(\frac{16}{115}, -\frac{434}{1495}, \frac{24}{1495}, \frac{19}{65}, -\frac{299}{115}, \frac{48}{115}, -\frac{226}{1495}, \frac{232}{1495}, -\frac{18}{1495})$ $+\frac{2}{299}\sqrt{7062}e^1 \otimes e_2 + \frac{4}{299}\sqrt{1605}e^6 \otimes e_9 + \frac{642}{1495}e^4 \otimes e_5$	{14678, 15678, 234789, 235789}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{33422}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{1}{1451}\sqrt{426622}e^{45}, \frac{22}{1451}\sqrt{983}e^{17}$	$(-\frac{208}{1451}, \frac{159}{1451}, \frac{726}{1451}, \frac{559}{1451}, -\frac{41}{1451}, -\frac{424}{1451}, -\frac{49}{1451}, \frac{518}{1451}, -\frac{257}{1451})$ $+\frac{15}{1451}\sqrt{5898}e^3 \otimes e_9 + \frac{20}{1451}\sqrt{2949}e^4 \otimes e_6$	{12489, 125689, 13457, 1367, 24579, 2679, 348, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{455}e^{12}, \frac{6}{161}\sqrt{130}e^{13} + \frac{2}{161}\sqrt{455}e^{45}, \frac{5}{161}\sqrt{39}e^{17}$	$(-\frac{29}{161}, \frac{64}{161}, \frac{4}{23}, -\frac{33}{161}, \frac{32}{161}, -\frac{37}{161}, \frac{5}{23}, -\frac{1}{161}, \frac{6}{161})$ $+\frac{1}{161}\sqrt{6565}e^3 \otimes e_6 + \frac{1}{161}\sqrt{8385}e^2 \otimes e_8 + \frac{65}{161}e^5 \otimes e_4$	{146789, 156789, 3489, 3589}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{19}\sqrt{5}e^{12}, \frac{8}{19}\sqrt{6}e^{13} + \frac{4}{19}\sqrt{5}e^{45}, \frac{4}{19}\sqrt{5}e^{17}$	$(-\frac{5}{57}, \frac{14}{57}, \frac{11}{57}, \frac{14}{57}, \frac{14}{57}, -\frac{13}{19}, \frac{3}{19}, \frac{28}{57}, \frac{4}{57})$ $+\frac{16}{19}\sqrt{3}e^3 \otimes e_6$	{123479, 12456789, 126789, 134, 14568, 168, 234589, 2389, 2469, 34578, 378, 467}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1343}\sqrt{25498}e^{12}, \frac{2}{1343}\sqrt{22387}e^{13} + \frac{2}{1343}\sqrt{18910}e^{45}, \frac{8}{1343}\sqrt{1830}e^{17}$	$(\frac{86}{1343}, -\frac{41}{1343}, -\frac{36}{1343}, -\frac{203}{1343}, \frac{253}{1343}, -\frac{163}{1343}, \frac{45}{1343}, \frac{50}{1343}, \frac{131}{1343})$ $+\frac{2}{1343}\sqrt{31110}e^1 \otimes e_3 + \frac{4}{1343}\sqrt{6954}e^5 \otimes e_9 + \frac{6}{1343}\sqrt{1830}e^2 \otimes e_6$	{129, 14567, 2379, 3456}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{591}\sqrt{10965}e^{12}, \frac{2}{591}\sqrt{3741}e^{13} + \frac{1}{591}\sqrt{38442}e^{45}, \frac{1}{197}\sqrt{3010}e^{17}$	$(\frac{40}{591}, \frac{80}{591}, -\frac{89}{591}, -\frac{94}{591}, \frac{15}{197}, -\frac{28}{197}, \frac{40}{197}, -\frac{49}{591}, \frac{160}{591})$ $+\frac{1}{197}\sqrt{5590}e^2 \otimes e_8 + \frac{1}{591}\sqrt{35862}e^5 \otimes e_6 + \frac{2}{591}\sqrt{13029}e^1 \otimes e_3$	{12459, 1269, 234579, 23679}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13} + \frac{1}{91}\sqrt{618}e^{45}, \frac{2}{91}\sqrt{1133}e^{17}$	$(-\frac{4}{13}, \frac{19}{91}, \frac{66}{91}, \frac{19}{91}, \frac{16}{91}, -\frac{9}{91}, \frac{38}{91}, -\frac{37}{91})$ $+\frac{5}{91}\sqrt{618}e^3 \otimes e_9$	{123467, 12347, 145689, 14589, 1689, 189, 234568, 23458, 2368, 238, 4679, 479}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{473}e^{12}, \frac{10}{167}\sqrt{86}e^{13} + \frac{2}{167}\sqrt{602}e^{45}, \frac{2}{167}\sqrt{602}e^{17}$	$(-\frac{36}{167}, \frac{28}{167}, \frac{42}{167}, \frac{3}{167}, \frac{3}{167}, \frac{92}{167}, -\frac{8}{167}, \frac{6}{167}, -\frac{44}{167})$ $+\frac{10}{167}\sqrt{129}e^3 \otimes e_9 + \frac{10}{167}\sqrt{129}e^6 \otimes e_8$	{1234567, 12367, 1489, 2348, 45679, 679}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1841}\sqrt{73149}e^{12}, \frac{2}{1841}\sqrt{133118}e^{13} + \frac{12}{1841}\sqrt{659}e^{45}, \frac{1}{1841}\sqrt{631322}e^{17}$	$(-\frac{5}{263}, -\frac{34}{1841}, \frac{555}{1841}, \frac{260}{1841}, \frac{260}{1841}, -\frac{694}{1841}, -\frac{69}{1841}, \frac{520}{1841}, -\frac{104}{1841})$ $+\frac{1}{1841}\sqrt{1016178}e^3 \otimes e_9 + \frac{6}{263}\sqrt{659}e^1 \otimes e_6$	{124589, 1289, 1347, 24679, 34568, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:10	$0, 0, 0, 0, 0, 0, \frac{11}{281}\sqrt{23}e^{12}, \frac{55}{562}\sqrt{14}e^{13} + \frac{11}{281}\sqrt{2}e^{45}, \frac{11}{562}\sqrt{158}e^{17}$	$(\frac{33}{1124}, -\frac{209}{1124}, \frac{99}{1124}, \frac{33}{562}, \frac{33}{562}, \frac{187}{562}, -\frac{44}{281}, \frac{33}{281}, -\frac{143}{1124})$ $+ \frac{55}{281}\sqrt{3}e^6 \otimes e_8 + \frac{55}{562}\sqrt{15}e^1 \otimes e_2 + \frac{55}{562}\sqrt{15}e^3 \otimes e_9$	{1489, 2348}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{133}e^{12}, \frac{2}{47}\sqrt{247}e^{13} + \frac{4}{47}\sqrt{95}e^{45}, \frac{4}{47}\sqrt{95}e^{17}$	$(-\frac{6}{47}, \frac{1}{47}, \frac{21}{47}, \frac{27}{47}, -\frac{12}{47}, \frac{8}{47}, -\frac{5}{47}, \frac{15}{47}, -\frac{11}{47})$ $+ \frac{2}{47}\sqrt{741}e^4 \otimes e_9$	{1235689, 123589, 1269, 129, 134678, 13478, 14567, 1457, 23679, 2379, 256789, 25789, 345, 3456, 468, 48}
931:10	$0, 0, 0, 0, 0, 0, \frac{88}{1781}\sqrt{73}e^{12}, \frac{8}{1781}\sqrt{803}e^{13} + \frac{11}{1781}\sqrt{7738}e^{45}, \frac{1}{1781}\sqrt{91542}e^{17}$	$(-\frac{238}{1781}, \frac{736}{1781}, \frac{171}{1781}, \frac{313}{1781}, -\frac{380}{1781}, -\frac{490}{1781}, \frac{498}{1781}, -\frac{67}{1781}, \frac{20}{137})$ $+ \frac{1}{1781}\sqrt{1421310}e^2 \otimes e_8 + \frac{33}{1781}\sqrt{1022}e^4 \otimes e_6$	{123459, 12369, 1478, 15678, 24579, 2679, 348, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{95}e^{12}, \frac{2}{47}\sqrt{247}e^{13} + \frac{2}{47}\sqrt{133}e^{45}, \frac{4}{47}\sqrt{95}e^{17}$	$(\frac{20}{47}, -\frac{12}{47}, -\frac{18}{47}, \frac{1}{47}, \frac{1}{47}, \frac{8}{47}, \frac{8}{47}, \frac{2}{47}, \frac{28}{47})$ $+ \frac{2}{47}\sqrt{741}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 14567, 1457, 167, 17, 2345679, 234579, 23679, 2379, 3, 345, 3456, 36}
931:10	$0, 0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{8}{191}\sqrt{143}e^{13} + \frac{44}{191}\sqrt{10}e^{45}, \frac{4}{191}\sqrt{66}e^{17}$	$(-\frac{49}{191}, \frac{136}{191}, \frac{9}{191}, -\frac{20}{191}, -\frac{20}{191}, \frac{35}{191}, \frac{87}{191}, -\frac{40}{191}, \frac{38}{191})$ $+ \frac{8}{191}\sqrt{858}e^2 \otimes e_8$	{1234569, 123459, 12369, 1239, 14678, 1478, 245679, 24579, 2679, 279, 3468, 348}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{359}\sqrt{6118}e^{12}, \frac{4}{359}\sqrt{322}e^{13} + \frac{4}{359}\sqrt{1610}e^{45}, \frac{5}{359}\sqrt{1610}e^{17}$	$(\frac{48}{359}, -\frac{113}{359}, \frac{57}{359}, \frac{144}{359}, -\frac{39}{359}, \frac{41}{359}, -\frac{65}{359}, \frac{105}{359}, -\frac{17}{359})$ $+ \frac{1}{359}\sqrt{58926}e^4 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^1 \otimes e_2$	{134678, 13478, 14567, 1457, 23679, 2379, 256789, 25789}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{285}\sqrt{618}e^{12}, \frac{2}{57}\sqrt{206}e^{13} + \frac{2}{285}\sqrt{618}e^{45}, \frac{4}{285}\sqrt{1133}e^{17}$	$(\frac{94}{285}, -\frac{112}{285}, -\frac{6}{285}, \frac{47}{95}, -\frac{13}{57}, \frac{32}{285}, -\frac{6}{95}, \frac{4}{15}, \frac{4}{15})$ $+ \frac{206}{285}e^4 \otimes e_5 + \frac{2}{57}\sqrt{618}e^1 \otimes e_2$	{13469, 1349, 13569, 1359, 24, 246, 25, 256}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{286}\sqrt{2899}e^{12}, \frac{5}{429}\sqrt{446}e^{13} + \frac{1}{858}\sqrt{115514}e^{45}, \frac{1}{858}\sqrt{106594}e^{17}$	$(\frac{59}{858}, -\frac{82}{429}, \frac{9}{44}, \frac{115}{1716}, \frac{59}{286}, -\frac{331}{1716}, -\frac{35}{286}, \frac{469}{1716}, -\frac{23}{429})$ $+ \frac{1}{858}\sqrt{107486}e^4 \otimes e_6 + \frac{1}{858}\sqrt{160783}e^5 \otimes e_9 + \frac{1}{858}\sqrt{80726}e^1 \otimes e_2$	{135678, 1457, 23679, 24789}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{3885}\sqrt{426622}e^{12}, \frac{2}{777}\sqrt{9830}e^{13} + \frac{2}{3885}\sqrt{33422}e^{45}, \frac{44}{3885}\sqrt{983}e^{17}$	$(-\frac{272}{1295}, \frac{1118}{3885}, \frac{484}{1295}, -\frac{19}{111}, \frac{1301}{3885}, -\frac{848}{3885}, \frac{302}{3885}, \frac{212}{1295}, -\frac{514}{3885})$ $+ \frac{1966}{3885}e^5 \otimes e_4 + \frac{2}{259}\sqrt{5898}e^3 \otimes e_9 + \frac{8}{777}\sqrt{2949}e^2 \otimes e_6$	{12489, 12589, 3468, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{93}e^{12}, \frac{5}{82}\sqrt{62}e^{13} + \frac{1}{41}\sqrt{93}e^{45}, \frac{1}{82}\sqrt{1178}e^{17}$	$(\frac{13}{164}, -\frac{49}{164}, \frac{39}{164}, \frac{13}{82}, \frac{13}{82}, \frac{7}{82}, -\frac{9}{41}, \frac{13}{41}, -\frac{23}{164})$ $+ \frac{5}{82}\sqrt{93}e^1 \otimes e_2 + \frac{5}{82}\sqrt{93}e^3 \otimes e_9$	{145689, 14589, 1689, 189, 234568, 23458, 2368, 238}
931:10	$0, 0, 0, 0, 0, 0, \frac{44}{279}\sqrt{10}e^{12}, \frac{8}{279}\sqrt{143}e^{13} + \frac{4}{279}\sqrt{66}e^{45}, \frac{44}{279}\sqrt{10}e^{17}$	$(\frac{55}{279}, -\frac{20}{279}, \frac{1}{31}, \frac{40}{93}, -\frac{56}{279}, -\frac{121}{279}, \frac{35}{279}, \frac{64}{279}, \frac{10}{31})$ $+ \frac{176}{279}e^4 \otimes e_5 + \frac{8}{279}\sqrt{858}e^1 \otimes e_6$	{12489, 12589, 1478, 1578, 2346789, 2356789, 3468, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{751}\sqrt{20305}e^{12}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{4}{751}\sqrt{5502}e^{45}, \frac{8}{751}\sqrt{2227}e^{17}$	$(\frac{38}{751}, -\frac{67}{751}, \frac{153}{751}, \frac{271}{751}, -\frac{80}{751}, -\frac{224}{751}, -\frac{29}{751}, \frac{191}{751}, \frac{9}{751})$ $+ \frac{4}{751}\sqrt{10218}e^1 \otimes e_6 + \frac{6}{751}\sqrt{5109}e^4 \otimes e_9$	{123589, 129, 13478, 1457, 23679, 256789, 3456, 468}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{4341}\sqrt{73149}e^{12}, \frac{4}{4341}\sqrt{133118}e^{13} + \frac{8}{1447}\sqrt{659}e^{45}, \frac{2}{4341}\sqrt{631322}e^{17}$	$(-\frac{70}{4341}, -\frac{68}{4341}, \frac{370}{1447}, -\frac{139}{4341}, \frac{393}{1447}, -\frac{1388}{4341}, -\frac{46}{1447}, \frac{1040}{4341}, -\frac{208}{4341})$ $+ \frac{1318}{4341}e^5 \otimes e_4 + \frac{28}{1447}\sqrt{659}e^1 \otimes e_6 + \frac{2}{4341}\sqrt{1016178}e^3 \otimes e_9$	{1347, 1357, 24679, 25679}
931:10	$0, 0, 0, 0, 0, 0, \frac{3}{82}\sqrt{53}e^{12}, \frac{1}{82}\sqrt{318}e^{13} + \frac{1}{41}\sqrt{530}e^{45}, \frac{1}{41}\sqrt{530}e^{17}$	$(-\frac{11}{82}, \frac{3}{41}, \frac{77}{164}, \frac{37}{82}, -\frac{19}{164}, -\frac{29}{164}, -\frac{5}{164}, \frac{55}{164}, -\frac{8}{41})$ $+ \frac{1}{82}\sqrt{4929}e^4 \otimes e_9 + \frac{5}{82}\sqrt{106}e^3 \otimes e_6$	{123589, 1269, 13478, 14567, 2379, 256789, 345, 468}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{285}\sqrt{618}e^{12}, \frac{2}{57}\sqrt{206}e^{13} + \frac{4}{285}\sqrt{1133}e^{45}, \frac{2}{285}\sqrt{618}e^{17}$	$(-\frac{2}{95}, \frac{2}{15}, -\frac{6}{95}, \frac{91}{285}, -\frac{23}{487}, \frac{182}{285}, \frac{32}{285}, -\frac{8}{95}, \frac{26}{285})$ $+ \frac{206}{285}e^4 \otimes e_5 + \frac{2}{57}\sqrt{618}e^6 \otimes e_8$	{124789, 125789, 148, 158, 23489, 23589, 3478, 3578}
931:10	$0, 0, 0, 0, 0, 0, \frac{3}{487}\sqrt{6182}e^{12}, \frac{1}{487}\sqrt{6182}e^{13} + \frac{3}{487}\sqrt{6182}e^{45}, \frac{1}{487}\sqrt{43274}e^{17}$	$(-\frac{124}{487}, \frac{209}{487}, \frac{52}{487}, -\frac{36}{487}, -\frac{36}{487}, \frac{242}{487}, \frac{85}{487}, -\frac{72}{487}, -\frac{39}{487})$ $+ \frac{1}{487}\sqrt{100598}e^6 \otimes e_9 + \frac{7}{487}\sqrt{2810}e^2 \otimes e_8$	{123459, 1239, 14678, 24579, 279, 3468}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{896}\sqrt{25198}e^{12}, \frac{5}{224}\sqrt{293}e^{13} + \frac{1}{896}\sqrt{4102}e^{45}, \frac{1}{448}\sqrt{26663}e^{17}$	$(\frac{139}{1792}, -\frac{447}{1792}, \frac{417}{1792}, \frac{1}{14}, \frac{107}{448}, -\frac{79}{896}, -\frac{11}{64}, \frac{139}{448}, -\frac{169}{1792})$ $+ \frac{15}{896}\sqrt{879}e^1 \otimes e_2 + \frac{15}{896}\sqrt{879}e^3 \otimes e_9 + \frac{5}{448}\sqrt{879}e^5 \otimes e_6$	{14689, 1589, 23468, 2358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13} + \frac{1}{91}\sqrt{618}e^{45}, \frac{2}{91}\sqrt{1133}e^{17}$	$(\frac{47}{91}, -\frac{8}{13}, -\frac{9}{91}, \frac{19}{91}, \frac{19}{91}, \frac{16}{91}, -\frac{9}{91}, \frac{38}{91}, \frac{38}{91})$ $+ \frac{5}{91}\sqrt{618}e^1 \otimes e_2$	{13469, 1349, 145689, 14589, 1689, 189, 234568, 23458, 2368, 238, 24, 246}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1343}\sqrt{18910}e^{12}, \frac{2}{1343}\sqrt{22387}e^{13} + \frac{2}{1343}\sqrt{25498}e^{45}, \frac{8}{1343}\sqrt{1830}e^{17}$	$(\frac{140}{1343}, -\frac{203}{1343}, \frac{18}{1343}, -\frac{41}{1343}, \frac{199}{1343}, -\frac{163}{1343}, -\frac{63}{17}, \frac{2}{17}, \frac{77}{1343})$ $+ \frac{2}{1343}\sqrt{31110}e^5 \otimes e_9 + \frac{4}{1343}\sqrt{6954}e^1 \otimes e_3 + \frac{6}{1343}\sqrt{1830}e^4 \otimes e_6$	{1269, 1457, 23679, 345}
931:10	$0, 0, 0, 0, 0, 0, \frac{6}{1255}\sqrt{6182}e^{12}, \frac{2}{1255}\sqrt{6182}e^{13} + \frac{6}{1255}\sqrt{6182}e^{45}, \frac{2}{1255}\sqrt{43274}e^{17}$	$(-\frac{248}{1255}, \frac{418}{1255}, \frac{104}{1255}, \frac{209}{1255}, -\frac{353}{1255}, \frac{484}{1255}, \frac{34}{251}, -\frac{144}{1255}, -\frac{78}{1255})$ $+ \frac{14}{1255}\sqrt{2810}e^2 \otimes e_8 + \frac{2}{1255}\sqrt{100598}e^6 \otimes e_9 + \frac{562}{1255}e^4 \otimes e_5$	{14678, 15678, 3468, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{473}e^{12}, \frac{10}{167}\sqrt{86}e^{13} + \frac{2}{167}\sqrt{602}e^{45}, \frac{2}{167}\sqrt{602}e^{17}$	$(\frac{39}{167}, -\frac{47}{167}, -\frac{33}{167}, \frac{3}{167}, \frac{3}{167}, \frac{92}{167}, -\frac{8}{167}, \frac{6}{167}, \frac{31}{167})$ $+ \frac{10}{167}\sqrt{129}e^1 \otimes e_2 + \frac{10}{167}\sqrt{129}e^6 \otimes e_8$	{134569, 1369, 1489, 2348, 2456, 26}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{22}e^{12}, \frac{22}{161}\sqrt{2}e^{13} + \frac{2}{161}\sqrt{770}e^{45}, \frac{2}{161}\sqrt{770}e^{17}$	$(\frac{12}{161}, -\frac{32}{161}, \frac{3}{161}, \frac{36}{161}, -\frac{3}{23}, \frac{59}{161}, -\frac{20}{161}, \frac{15}{161}, -\frac{8}{161})$ $+ \frac{2}{161}\sqrt{1254}e^4 \otimes e_9 + \frac{6}{161}\sqrt{110}e^1 \otimes e_2 + \frac{6}{161}\sqrt{110}e^6 \otimes e_8$	{134567, 1478, 235789, 2679}
931:10	$0, 0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{8}{191}\sqrt{143}e^{13} + \frac{4}{191}\sqrt{66}e^{45}, \frac{44}{191}\sqrt{10}e^{17}$	$(\frac{55}{191}, -\frac{20}{191}, \frac{9}{191}, \frac{32}{191}, \frac{32}{191}, \frac{121}{191}, \frac{35}{191}, \frac{64}{191}, \frac{90}{191})$ $+ \frac{8}{191}\sqrt{858}e^1 \otimes e_6$	{123459, 1239, 12489, 13457, 137, 1478, 2346789, 245679, 2679, 3468, 456, 6}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{23}e^{12}, \frac{1}{30}\sqrt{115}e^{13} + \frac{1}{15}\sqrt{23}e^{45}, \frac{1}{30}\sqrt{322}e^{17}$	$(-\frac{1}{10}, \frac{1}{20}, \frac{1}{5}, \frac{13}{30}, -\frac{1}{3}, \frac{37}{60}, -\frac{1}{20}, \frac{1}{10}, -\frac{3}{20})$ $+ \frac{1}{30}\sqrt{690}e^6 \otimes e_9 + \frac{23}{30}e^4 \otimes e_5$	{123489, 123589, 134678, 135678, 24789, 25789, 468, 568}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1339}\sqrt{23433}e^{12}, \frac{2}{1339}\sqrt{16585}e^{13} + \frac{2}{1339}\sqrt{53286}e^{45}, \frac{10}{1339}\sqrt{1070}e^{17}$	$(-\frac{200}{1339}, \frac{283}{1339}, \frac{269}{1339}, -\frac{28}{1339}, \frac{97}{1339}, -\frac{242}{1339}, \frac{83}{1339}, \frac{69}{1339}, -\frac{9}{103})$ $+ \frac{2}{1339}\sqrt{51467}e^5 \otimes e_9 + \frac{4}{1339}\sqrt{10379}e^2 \otimes e_8 + \frac{4}{1339}\sqrt{9523}e^4 \otimes e_6$	{1269, 135678, 23679, 568}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{115}e^{13} + \frac{2}{37}\sqrt{322}e^{45}, \frac{4}{37}\sqrt{23}e^{17}$	$(\frac{4}{37}, \frac{3}{37}, \frac{12}{37}, \frac{23}{37}, -\frac{7}{37}, -\frac{23}{37}, \frac{7}{37}, \frac{16}{37}, \frac{11}{37})$ $+ \frac{2}{37}\sqrt{690}e^4 \otimes e_6$	{123489, 1235689, 12459, 1269, 13478, 135678, 1457, 167, 234579, 23679, 24789, 256789, 345, 36, 48, 568}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{1337}\sqrt{141382}e^{12}, \frac{2}{1337}\sqrt{34342}e^{13} + \frac{5}{1337}\sqrt{6690}e^{45}, \frac{10}{1337}\sqrt{2230}e^{17}$	$(\frac{134}{1337}, -\frac{194}{1337}, -\frac{89}{1337}, \frac{297}{1337}, -\frac{36}{1337}, \frac{268}{1337}, -\frac{60}{1337}, \frac{45}{1337}, \frac{74}{1337})$ $+ \frac{1}{1337}\sqrt{64670}e^6 \otimes e_8 + \frac{3}{1337}\sqrt{27206}e^4 \otimes e_9 + \frac{4}{1337}\sqrt{14495}e^1 \otimes e_3$	{1269, 14567, 23679, 3456}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{105}\sqrt{473}e^{12}, \frac{1}{21}\sqrt{86}e^{13} + \frac{1}{105}\sqrt{602}e^{45}, \frac{1}{105}\sqrt{602}e^{17}$	$(\frac{13}{70}, -\frac{47}{210}, -\frac{11}{70}, \frac{23}{105}, -\frac{4}{21}, \frac{46}{105}, -\frac{4}{105}, \frac{1}{35}, \frac{31}{105})$ $+ \frac{1}{21}\sqrt{129}e^1 \otimes e_2 + \frac{1}{21}\sqrt{129}e^6 \otimes e_8 + \frac{4}{105}e^4 \otimes e_5$	{1489, 1589, 2348, 2358}
931:10	$0, 0, 0, 0, 0, 0, \frac{8}{17}e^{12}, \frac{8}{17}e^{13} + \frac{4}{17}\sqrt{5}e^{45}, \frac{4}{17}\sqrt{5}e^{17}$	$(-\frac{3}{17}, \frac{4}{17}, \frac{6}{17}, \frac{6}{17}, -\frac{3}{17}, -\frac{4}{17}, \frac{1}{17}, \frac{3}{17}, -\frac{2}{17})$ $+ \frac{12}{17}e^4 \otimes e_9 + \frac{4}{17}\sqrt{6}e^2 \otimes e_6$	{123589, 129, 134678, 14567, 2379, 25789, 3456, 468}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1447}\sqrt{33402}e^{12}, \frac{2}{1447}\sqrt{128334}e^{13} + \frac{2}{1447}\sqrt{33402}e^{45}, \frac{4}{1447}\sqrt{4981}e^{17}$	$(\frac{250}{1447}, -\frac{336}{1447}, \frac{170}{1447}, -\frac{83}{1447}, \frac{503}{1447}, -\frac{416}{1447}, -\frac{86}{1447}, \frac{420}{1447}, \frac{164}{1447})$ $+ \frac{2}{1447}\sqrt{159978}e^1 \otimes e_2 + \frac{32}{1447}\sqrt{586}e^3 \otimes e_6 + \frac{586}{1447}e^5 \otimes e_4$	{1349, 1359, 246, 256}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{1451}\sqrt{426622}e^{12}, \frac{5}{1451}\sqrt{9830}e^{13} + \frac{1}{1451}\sqrt{33422}e^{45}, \frac{22}{1451}\sqrt{983}e^{17}$	$(-\frac{408}{1451}, \frac{559}{1451}, \frac{726}{1451}, \frac{159}{1451}, \frac{159}{1451}, -\frac{424}{1451}, \frac{151}{1451}, \frac{318}{1451}, -\frac{257}{1451})$ $+ \frac{15}{1451}\sqrt{5898}e^3 \otimes e_9 + \frac{20}{1451}\sqrt{2949}e^2 \otimes e_6$	{12489, 134567, 1367, 24579, 279, 3468}
931:10	$0, 0, 0, 0, 0, 0, \frac{5}{51}\sqrt{14}e^{12}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{45}, \frac{2}{51}\sqrt{42}e^{17}$	$(-\frac{1}{102}, \frac{4}{17}, -\frac{1}{34}, -\frac{8}{51}, \frac{2}{17}, -\frac{29}{102}, \frac{23}{102}, -\frac{2}{51}, \frac{11}{51})$ $+ \frac{14}{51}e^5 \otimes e_4 + \frac{1}{51}\sqrt{546}e^1 \otimes e_6 + \frac{1}{51}\sqrt{546}e^2 \otimes e_8$	{1478, 1578, 3468, 3568}
931:10	$0, 0, 0, 0, 0, 0, \frac{28}{2383}\sqrt{663}e^{12}, \frac{8}{2383}\sqrt{1365}e^{13} + \frac{4}{2383}\sqrt{58513}e^{45}, \frac{4}{2383}\sqrt{31395}e^{17}$	$(-\frac{525}{2383}, \frac{774}{2383}, \frac{571}{2383}, -\frac{406}{2383}, \frac{452}{2383}, -\frac{157}{2383}, \frac{249}{2383}, \frac{46}{2383}, -\frac{276}{2383})$ $+ \frac{4}{2383}\sqrt{35854}e^3 \otimes e_6 + \frac{4}{2383}\sqrt{81354}e^2 \otimes e_8 + \frac{52}{2383}\sqrt{462}e^5 \otimes e_9$	{1239, 15678, 2679, 358}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{618}e^{12}, \frac{5}{91}\sqrt{206}e^{13} + \frac{2}{91}\sqrt{1133}e^{45}, \frac{1}{91}\sqrt{618}e^{17}$	$(-\frac{3}{91}, \frac{19}{91}, -\frac{9}{91}, -\frac{6}{91}, -\frac{6}{91}, 1, \frac{16}{91}, -\frac{12}{91}, \frac{1}{7})$ $+ \frac{5}{91}\sqrt{618}e^6 \otimes e_8$	{12345679, 123679, 124789, 13456, 136, 148, 23489, 24569, 269, 3478, 4567, 67}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{359}\sqrt{6118}e^{12}, \frac{4}{359}\sqrt{322}e^{13} + \frac{5}{359}\sqrt{1610}e^{45},$ $\frac{4}{359}\sqrt{1610}e^{17}$	$(-\frac{42}{359}, \frac{22}{359}, \frac{57}{359}, \frac{99}{359}, -\frac{84}{359}, \frac{176}{359}, -\frac{20}{359}, \frac{15}{359}, -\frac{62}{359})$ $+\frac{1}{359}\sqrt{58926}e^4 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^6 \otimes e_8$	{123589, 1269, 13478, 14567, 23679, 25789, 3456, 48}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{37}\sqrt{23}e^{12}, \frac{2}{37}\sqrt{115}e^{13} + \frac{4}{37}\sqrt{23}e^{45}, \frac{2}{37}\sqrt{322}e^{17}$	$(-\frac{6}{37}, \frac{3}{37}, \frac{12}{37}, \frac{3}{37}, \frac{3}{37}, 1, -\frac{3}{37}, \frac{6}{37}, -\frac{9}{37})$ $+\frac{2}{37}\sqrt{690}e^6 \otimes e_9$	{123489, 12459, 129, 134678, 14567, 167, 234579, 2379, 24789, 3456, 36, 468}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{122}\sqrt{129}e^{12}, \frac{1}{122}\sqrt{1290}e^{13} + \frac{1}{61}\sqrt{258}e^{45}, \frac{1}{61}\sqrt{559}e^{17}$	$(\frac{13}{122}, -\frac{15}{61}, \frac{49}{244}, -\frac{3}{244}, \frac{39}{122}, -\frac{37}{244}, -\frac{17}{122}, \frac{75}{244}, -\frac{2}{61})$ $+\frac{1}{122}\sqrt{2494}e^3 \otimes e_6 + \frac{1}{61}\sqrt{903}e^1 \otimes e_2 + \frac{9}{122}\sqrt{43}e^5 \otimes e_9$	{139, 14689, 2358, 2456}
931:10	$0, 0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{45}, \frac{1}{22}\sqrt{42}e^{17}$	$(-\frac{1}{88}, \frac{3}{11}, -\frac{3}{88}, -\frac{1}{44}, -\frac{1}{44}, -\frac{29}{88}, \frac{23}{88}, -\frac{1}{22}, \frac{1}{4})$ $+\frac{1}{44}\sqrt{546}e^1 \otimes e_6 + \frac{1}{44}\sqrt{546}e^2 \otimes e_8$	{123459, 1239, 1478, 245679, 2679, 3468}
931:10	$0, 0, 0, 0, 0, 0, \frac{1}{577}\sqrt{33402}e^{12}, \frac{1}{577}\sqrt{128334}e^{13} + \frac{1}{577}\sqrt{33402}e^{45},$ $\frac{2}{577}\sqrt{4981}e^{17}$	$(\frac{125}{577}, -\frac{168}{577}, \frac{85}{577}, \frac{105}{577}, \frac{105}{577}, -\frac{208}{577}, -\frac{43}{577}, \frac{210}{577}, \frac{82}{577})$ $+\frac{16}{577}\sqrt{586}e^3 \otimes e_6 + \frac{1}{577}\sqrt{159978}e^1 \otimes e_2$	{1349, 145689, 1689, 23458, 238, 246}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{461}\sqrt{1027}e^{12}, \frac{2}{461}\sqrt{8611}e^{13} + \frac{2}{461}\sqrt{15010}e^{45},$ $\frac{4}{461}\sqrt{2607}e^{17}$	$(-\frac{28}{461}, \frac{5}{461}, \frac{156}{461}, \frac{31}{461}, \frac{97}{461}, -\frac{127}{461}, -\frac{33}{461}, \frac{128}{461}, -\frac{61}{461})$ $+\frac{2}{461}\sqrt{13746}e^4 \otimes e_6 + \frac{8}{461}\sqrt{1185}e^5 \otimes e_9$	{123489, 1269, 135678, 1457, 23679, 24789, 345, 568}
931:10	$0, 0, 0, 0, 0, 0, \frac{18}{1753}\sqrt{763}e^{12}, \frac{126}{1753}\sqrt{13}e^{13} + \frac{45}{1753}\sqrt{210}e^{45},$ $\frac{9}{1753}\sqrt{2002}e^{17}$	$(-\frac{378}{1753}, \frac{618}{1753}, \frac{429}{1753}, -\frac{210}{1753}, \frac{261}{1753}, -\frac{306}{1753}, \frac{240}{1753}, \frac{51}{1753}, -\frac{138}{1753})$ $+\frac{18}{1753}\sqrt{1561}e^3 \otimes e_9 + \frac{9}{1753}\sqrt{6594}e^5 \otimes e_6 + \frac{9}{1753}\sqrt{9394}e^2 \otimes e_8$	{24579, 2679, 3468, 358}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{683}\sqrt{1351}e^{12}, \frac{4}{683}\sqrt{910}e^{13} + \frac{4}{683}\sqrt{1351}e^{45},$ $\frac{4}{683}\sqrt{1533}e^{17}$	$(\frac{11}{683}, \frac{22}{683}, -\frac{45}{683}, -\frac{134}{683}, \frac{100}{683}, \frac{59}{683}, \frac{33}{683}, -\frac{34}{683}, \frac{44}{683})$ $+\frac{12}{683}\sqrt{182}e^1 \otimes e_3 + \frac{12}{683}\sqrt{182}e^5 \otimes e_9 + \frac{8}{683}\sqrt{273}e^2 \otimes e_8$	{1269, 129, 23679, 2379}
931:10	$0, 0, 0, 0, 0, 0, \frac{4}{461}\sqrt{2607}e^{12}, \frac{2}{461}\sqrt{8611}e^{13} + \frac{4}{461}\sqrt{1027}e^{45},$ $\frac{2}{461}\sqrt{15010}e^{17}$	$(\frac{74}{461}, -\frac{85}{461}, -\frac{84}{461}, -\frac{5}{461}, -\frac{5}{461}, \frac{221}{461}, -\frac{11}{461}, -\frac{10}{461}, \frac{63}{461})$ $+\frac{2}{461}\sqrt{13746}e^6 \otimes e_9 + \frac{8}{461}\sqrt{1185}e^1 \otimes e_3$	{12459, 129, 14567, 167, 234579, 2379, 3456, 36}
931:10	$0, 0, 0, 0, 0, 0, \frac{8}{751}\sqrt{2227}e^{12}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{2}{751}\sqrt{20305}e^{45},$ $\frac{4}{751}\sqrt{5502}e^{17}$	$(\frac{64}{751}, \frac{128}{751}, -\frac{198}{751}, -\frac{67}{751}, -\frac{67}{751}, \frac{88}{751}, \frac{192}{751}, -\frac{134}{751}, \frac{256}{751})$ $+\frac{4}{751}\sqrt{10218}e^2 \otimes e_8 + \frac{6}{751}\sqrt{5109}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 2345679, 234579, 23679, 2379}
931:10	$0, 0, 0, 0, 0, 0, \frac{56}{173}e^{12}, \frac{16}{173}\sqrt{13}e^{13} + \frac{56}{173}e^{45}, \frac{40}{173}\sqrt{3}e^{17}$	$(\frac{23}{173}, -\frac{32}{173}, -\frac{9}{173}, \frac{46}{173}, -\frac{32}{173}, \frac{17}{173}, -\frac{9}{173}, \frac{14}{173}, \frac{14}{173})$ $+\frac{8}{173}\sqrt{78}e^1 \otimes e_3 + \frac{8}{173}\sqrt{78}e^4 \otimes e_9$	{1269, 129, 14567, 1457, 23679, 2379, 345, 3456}
931:10	$0, 0, 0, 0, 0, 0, \frac{2}{1267}\sqrt{32370}e^{12}, \frac{2}{1267}\sqrt{54282}e^{13} + \frac{2}{1267}\sqrt{32370}e^{45},$ $\frac{4}{1267}\sqrt{6474}e^{17}$	$(-\frac{332}{1267}, \frac{478}{1267}, \frac{312}{1267}, -\frac{37}{181}, \frac{239}{1267}, \frac{120}{1267}, \frac{146}{1267}, -\frac{20}{1267}, -\frac{186}{1267})$ $+\frac{2}{1267}\sqrt{102090}e^3 \otimes e_9 + \frac{4}{1267}\sqrt{498}e^5 \otimes e_4 + \frac{4}{1267}\sqrt{30378}e^2 \otimes e_8$	{3468, 348, 3568, 358}
931:10	$0, 0, 0, 0, 0, 0, \frac{44}{279}\sqrt{10}e^{12}, \frac{8}{279}\sqrt{143}e^{13} + \frac{44}{279}\sqrt{10}e^{45}, \frac{4}{279}\sqrt{66}e^{17}$	$(-\frac{49}{279}, \frac{136}{279}, \frac{1}{31}, \frac{68}{279}, -\frac{12}{31}, \frac{35}{279}, \frac{29}{93}, -\frac{40}{279}, \frac{38}{279})$ $+\frac{176}{279}e^4 \otimes e_5 + \frac{8}{279}\sqrt{858}e^2 \otimes e_8$	{14678, 1478, 15678, 1578, 3468, 348, 3568, 358}
931:10	$0, 0, 0, 0, 0, 0, \frac{38}{3481}\sqrt{1022}e^{12}, \frac{38}{3481}\sqrt{445}e^{13} + \frac{38}{3481}\sqrt{565}e^{45},$ $\frac{38}{3481}\sqrt{998}e^{17}$	$(\frac{114}{3481}, \frac{228}{3481}, -\frac{608}{3481}, -\frac{247}{3481}, -\frac{247}{3481}, \frac{1178}{3481}, \frac{342}{3481}, -\frac{494}{3481}, \frac{456}{3481})$ $+\frac{38}{3481}\sqrt{1371}e^1 \otimes e_3 + \frac{76}{3481}\sqrt{215}e^6 \otimes e_9 + \frac{76}{3481}\sqrt{233}e^2 \otimes e_8$	{12459, 129, 234579, 2379}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{146}e^{12}, \frac{2}{145}\sqrt{365}e^{13} + \frac{6}{145}\sqrt{73}e^{45}, \frac{3}{145}\sqrt{73}e^{27}$	$(\frac{32}{145}, -\frac{7}{145}, -\frac{41}{145}, \frac{32}{145}, -\frac{41}{145}, \frac{64}{145}, \frac{5}{29}, -\frac{9}{145}, \frac{18}{145})$ $+\frac{1}{145}\sqrt{6497}e^1 \otimes e_3 + \frac{1}{145}\sqrt{7373}e^6 \otimes e_8 - \frac{73}{145}e^4 \otimes e_5$	{12489, 12589, 14789, 15789, 23478, 23578, 348, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{146}e^{12}, \frac{2}{145}\sqrt{365}e^{13} + \frac{6}{145}\sqrt{73}e^{45}, \frac{3}{145}\sqrt{73}e^{27}$	$(\frac{32}{145}, -\frac{7}{145}, -\frac{41}{145}, \frac{32}{145}, -\frac{41}{145}, \frac{64}{145}, \frac{5}{29}, -\frac{9}{145}, \frac{18}{145})$ $+\frac{1}{145}\sqrt{6497}e^1 \otimes e_3 + \frac{1}{145}\sqrt{7373}e^6 \otimes e_8 + \frac{73}{145}e^4 \otimes e_5$	{12489, 12589, 14789, 15789, 23478, 23578, 348, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{225}\sqrt{1474}e^{12}, \frac{2}{225}\sqrt{737}e^{13} + \frac{2}{225}\sqrt{1474}e^{45}, \frac{1}{45}\sqrt{402}e^{27}$	$(-\frac{38}{225}, \frac{7}{45}, \frac{2}{75}, -\frac{16}{225}, -\frac{16}{225}, \frac{11}{25}, -\frac{1}{75}, -\frac{32}{225}, \frac{32}{225})$ $+\frac{1}{225}\sqrt{9514}e^6 \otimes e_9 + \frac{2}{75}\sqrt{469}e^2 \otimes e_8$	{123459, 1239, 14789, 24567, 267, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{814}e^{12}, \frac{1}{54}\sqrt{185}e^{13} + \frac{1}{54}\sqrt{222}e^{45}, \frac{1}{27}\sqrt{185}e^{27}$	$(\frac{11}{27}, -\frac{29}{108}, -\frac{5}{18}, \frac{7}{108}, \frac{7}{108}, \frac{5}{9}, \frac{5}{36}, \frac{7}{54}, -\frac{7}{54})$ $+ \frac{1}{54}\sqrt{1739}e^6 \otimes e_9 + \frac{2}{27}\sqrt{111}e^1 \otimes e_3$	{12459, 129, 14579, 179, 234567, 2367, 3456, 36}
931:11	$0, 0, 0, 0, 0, 0, \frac{22}{1577}\sqrt{899}e^{12}, \frac{3}{1577}\sqrt{19778}e^{13} + \frac{2}{1577}\sqrt{128557}e^{45}, \frac{29}{1577}\sqrt{682}e^{27}$	$(\frac{484}{1577}, -\frac{356}{1577}, \frac{106}{1577}, \frac{671}{1577}, -\frac{81}{1577}, -\frac{5}{19}, \frac{128}{1577}, \frac{590}{1577}, -\frac{12}{83})$ $+ \frac{4}{1577}\sqrt{84506}e^4 \otimes e_9 + \frac{62}{1577}\sqrt{290}e^1 \otimes e_6$	{1239, 12589, 1379, 15789, 234678, 24567, 3468, 456}
931:11	$0, 0, 0, 0, 0, 0, \frac{3}{61}\sqrt{6}e^{12}, \frac{6}{61}\sqrt{6}e^{13} + \frac{3}{61}\sqrt{114}e^{45}, \frac{18}{61}\sqrt{2}e^{27}$	$(\frac{2}{61}, -\frac{6}{61}, \frac{3}{61}, \frac{17}{61}, -\frac{12}{61}, \frac{32}{61}, -\frac{4}{61}, \frac{5}{61}, -\frac{10}{61})$ $+ \frac{15}{61}\sqrt{6}e^6 \otimes e_8 + \frac{3}{61}\sqrt{174}e^4 \otimes e_9$	{12369, 12589, 13679, 15789, 23478, 24567, 348, 456}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{7}{81}\sqrt{78}e^{13} + \frac{2}{81}\sqrt{910}e^{45}, \frac{1}{81}\sqrt{910}e^{27}$	$(-\frac{4}{81}, \frac{4}{27}, -\frac{2}{27}, -\frac{5}{81}, -\frac{5}{81}, 1, \frac{8}{81}, -\frac{10}{81}, \frac{20}{81})$ $+ \frac{2}{81}\sqrt{3003}e^6 \otimes e_8$	{1234567, 12367, 12478, 13456, 136, 148, 23489, 24569, 269, 34789, 45679, 679}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{175}\sqrt{1131}e^{12}, \frac{9}{175}\sqrt{29}e^{13} + \frac{1}{175}\sqrt{1131}e^{45}, \frac{1}{175}\sqrt{3103}e^{27}$	$(-\frac{6}{25}, \frac{26}{175}, \frac{39}{175}, -\frac{16}{175}, \frac{13}{175}, \frac{18}{175}, -\frac{16}{175}, -\frac{3}{175}, \frac{2}{35})$ $+ \frac{1}{175}\sqrt{3567}e^3 \otimes e_9 - \frac{29}{175}e^5 \otimes e_4 + \frac{9}{175}\sqrt{58}e^2 \otimes e_8$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{175}\sqrt{1131}e^{12}, \frac{9}{175}\sqrt{29}e^{13} + \frac{1}{175}\sqrt{1131}e^{45}, \frac{1}{175}\sqrt{3103}e^{27}$	$(-\frac{6}{25}, \frac{26}{175}, \frac{39}{175}, -\frac{16}{175}, \frac{13}{175}, \frac{18}{175}, \frac{16}{175}, -\frac{3}{175}, \frac{2}{35})$ $+ \frac{1}{175}\sqrt{3567}e^3 \otimes e_9 + \frac{29}{175}e^5 \otimes e_4 + \frac{9}{175}\sqrt{58}e^2 \otimes e_8$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{1446}e^{12}, \frac{1}{383}\sqrt{18798}e^{13} + \frac{2}{383}\sqrt{8194}e^{45}, \frac{9}{383}\sqrt{482}e^{27}$	$(\frac{6}{383}, -\frac{36}{383}, \frac{149}{383}, \frac{175}{383}, -\frac{20}{383}, -\frac{92}{383}, -\frac{30}{383}, \frac{155}{383}, -\frac{66}{383})$ $+ \frac{1}{383}\sqrt{93990}e^4 \otimes e_9 + \frac{2}{383}\sqrt{16870}e^3 \otimes e_6$	{1239, 125689, 1379, 156789, 23478, 24567, 348, 456}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{4729}\sqrt{499906}e^{12}, \frac{2}{4729}\sqrt{408281}e^{13} + \frac{12}{4729}\sqrt{28587}e^{45}, \frac{4}{4729}\sqrt{135605}e^{27}$	$(\frac{1364}{4729}, -\frac{1007}{4729}, -\frac{102}{4729}, \frac{446}{4729}, \frac{816}{4729}, -\frac{1020}{4729}, \frac{357}{4729}, \frac{1262}{4729}, -\frac{650}{4729})$ $+ \frac{2}{4729}\sqrt{1051855}e^4 \otimes e_6 + \frac{2}{4729}\sqrt{787242}e^1 \otimes e_3 + \frac{38}{4729}\sqrt{3665}e^5 \otimes e_9$	{1269, 1679, 23457, 345}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{253}\sqrt{91}e^{12}, \frac{14}{253}\sqrt{78}e^{13} + \frac{4}{253}\sqrt{910}e^{45}, \frac{2}{253}\sqrt{910}e^{27}$	$(-\frac{8}{253}, \frac{24}{253}, -\frac{12}{253}, \frac{81}{253}, -\frac{101}{253}, \frac{162}{253}, \frac{16}{253}, -\frac{20}{253}, \frac{40}{253})$ $+ \frac{182}{253}e^4 \otimes e_5 + \frac{4}{253}\sqrt{3003}e^6 \otimes e_8$	{12478, 12578, 148, 158, 23489, 23589, 34789, 35789}
931:11	$0, 0, 0, 0, 0, 0, \frac{8}{963}\sqrt{2869}e^{12}, \frac{2}{963}\sqrt{7701}e^{13} + \frac{2}{963}\sqrt{30653}e^{45}, \frac{4}{963}\sqrt{8305}e^{27}$	$(\frac{68}{963}, \frac{136}{963}, -\frac{26}{107}, -\frac{83}{963}, -\frac{83}{963}, \frac{40}{321}, \frac{68}{321}, -\frac{166}{963}, \frac{340}{963})$ $+ \frac{2}{963}\sqrt{45753}e^1 \otimes e_3 + \frac{4}{321}\sqrt{2265}e^2 \otimes e_8$	{146789, 14789, 3468, 348}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{905}\sqrt{20710}e^{12}, \frac{4}{905}\sqrt{3705}e^{13} + \frac{4}{905}\sqrt{2945}e^{45}, \frac{8}{905}\sqrt{1045}e^{27}$	$(\frac{4}{905}, \frac{134}{905}, -\frac{12}{181}, -\frac{123}{905}, \frac{67}{905}, -\frac{186}{905}, \frac{138}{905}, -\frac{56}{905}, \frac{272}{905})$ $+ \frac{24}{905}\sqrt{285}e^2 \otimes e_8 + \frac{2}{905}\sqrt{26790}e^1 \otimes e_6 + \frac{38}{181}e^5 \otimes e_4$	{14789, 15789, 3468, 3568}
931:11	$0, 0, 0, 0, 0, 0, \frac{32}{957}\sqrt{97}e^{12}, \frac{2}{957}\sqrt{10961}e^{13} + \frac{2}{957}\sqrt{16102}e^{45}, \frac{4}{957}\sqrt{5917}e^{27}$	$(\frac{5}{29}, -\frac{70}{957}, -\frac{1}{33}, \frac{83}{957}, \frac{73}{319}, -\frac{8}{29}, \frac{95}{957}, \frac{136}{957}, \frac{25}{957})$ $+ \frac{10}{319}\sqrt{97}e^1 \otimes e_3 + \frac{2}{957}\sqrt{29294}e^5 \otimes e_9 + \frac{2}{957}\sqrt{33659}e^2 \otimes e_6$	{129, 1679, 23457, 3456}
931:11	$0, 0, 0, 0, 0, 0, \frac{28}{513}\sqrt{31}e^{12}, \frac{70}{513}e^{13} + \frac{14}{513}\sqrt{87}e^{45}, \frac{14}{513}\sqrt{134}e^{27}$	$(\frac{14}{513}, \frac{28}{513}, -\frac{28}{171}, -\frac{35}{513}, -\frac{35}{513}, \frac{56}{171}, \frac{14}{171}, -\frac{70}{513}, \frac{70}{513})$ $+ \frac{14}{171}\sqrt{26}e^2 \otimes e_8 + \frac{14}{513}\sqrt{111}e^1 \otimes e_3 + \frac{28}{513}\sqrt{29}e^6 \otimes e_9$	{14789, 3468}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{46}e^{12}, \frac{2}{59}\sqrt{23}e^{13} + \frac{2}{59}\sqrt{46}e^{45}, \frac{4}{59}\sqrt{69}e^{27}$	$(\frac{4}{59}, -\frac{7}{59}, \frac{6}{59}, \frac{28}{59}, -\frac{18}{59}, \frac{36}{59}, -\frac{3}{59}, \frac{10}{59}, -\frac{10}{59})$ $+ \frac{2}{59}\sqrt{667}e^6 \otimes e_9 + \frac{46}{59}e^4 \otimes e_5$	{12489, 12589, 14789, 15789, 234678, 235678, 3468, 3568}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{213}\sqrt{1515}e^{12}, \frac{6}{71}\sqrt{101}e^{13} + \frac{2}{213}\sqrt{1515}e^{45}, \frac{2}{213}\sqrt{7171}e^{27}$	$(-\frac{10}{71}, -\frac{20}{213}, \frac{44}{71}, \frac{17}{71}, \frac{17}{71}, \frac{12}{71}, -\frac{50}{213}, \frac{34}{71}, -\frac{70}{213})$ $+ \frac{2}{213}\sqrt{17877}e^3 \otimes e_9$	{123467, 12347, 134, 1346, 2469, 249, 4679, 479}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{639}\sqrt{23777}e^{12}, \frac{2}{639}\sqrt{22971}e^{13} + \frac{4}{639}\sqrt{23374}e^{45}, \frac{4}{639}\sqrt{4030}e^{27}$	$(\frac{118}{639}, \frac{7}{213}, \frac{59}{213}, \frac{407}{639}, -\frac{112}{639}, -\frac{133}{213}, \frac{139}{639}, \frac{295}{639}, \frac{160}{639})$ $+ \frac{2}{639}\sqrt{209157}e^4 \otimes e_6$	{123489, 1235689, 12459, 1269, 134789, 1356789, 14579, 1679, 23457, 2367, 2478, 25678, 345, 36, 48, 568}
931:11	$0, 0, 0, 0, 0, 0, \frac{8}{217}\sqrt{146}e^{12}, \frac{4}{217}\sqrt{365}e^{13} + \frac{12}{217}\sqrt{73}e^{45}, \frac{6}{217}\sqrt{73}e^{27}$	$(\frac{64}{217}, -\frac{2}{31}, -\frac{82}{217}, -\frac{9}{217}, -\frac{9}{217}, \frac{128}{217}, \frac{50}{217}, -\frac{18}{217}, \frac{36}{217})$ $+ \frac{2}{217}\sqrt{6497}e^1 \otimes e_3 + \frac{2}{217}\sqrt{7373}e^6 \otimes e_8$	{12489, 14789, 23478, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{557} \sqrt{2869}e^{12}, \frac{1}{557} \sqrt{7701}e^{13} + \frac{1}{557} \sqrt{30653}e^{45},$ $\frac{2}{557} \sqrt{8305}e^{27}$	$(\frac{34}{557}, \frac{68}{557}, -\frac{117}{557}, -\frac{117}{557}, \frac{34}{557}, \frac{60}{557}, \frac{102}{557}, -\frac{83}{557}, \frac{170}{557})$ $+ \frac{151}{557}e^5 \otimes e_4 + \frac{1}{557} \sqrt{45753}e^1 \otimes e_3 + \frac{6}{557} \sqrt{2265}e^2 \otimes e_8$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{557} \sqrt{2869}e^{12}, \frac{1}{557} \sqrt{7701}e^{13} + \frac{1}{557} \sqrt{30653}e^{45},$ $\frac{2}{557} \sqrt{8305}e^{27}$	$(\frac{34}{557}, \frac{68}{557}, -\frac{117}{557}, -\frac{117}{557}, \frac{34}{557}, \frac{60}{557}, \frac{102}{557}, -\frac{83}{557}, \frac{170}{557})$ $- \frac{151}{557}e^5 \otimes e_4 + \frac{1}{557} \sqrt{45753}e^1 \otimes e_3 + \frac{6}{557} \sqrt{2265}e^2 \otimes e_8$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{963} \sqrt{30653}e^{12}, \frac{2}{963} \sqrt{7701}e^{13} + \frac{8}{963} \sqrt{2869}e^{45},$ $\frac{4}{963} \sqrt{8305}e^{27}$	$(-\frac{134}{963}, \frac{79}{321}, \frac{23}{321}, \frac{119}{963}, -\frac{184}{963}, -\frac{61}{321}, \frac{103}{963}, -\frac{65}{963}, \frac{340}{963})$ $+ \frac{2}{963} \sqrt{45753}e^4 \otimes e_6 + \frac{4}{321} \sqrt{2265}e^2 \otimes e_8$	{123459, 12369, 14789, 156789, 2457, 267, 348, 3568}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{405} \sqrt{20710}e^{12}, \frac{2}{405} \sqrt{3705}e^{13} + \frac{2}{405} \sqrt{2945}e^{45},$ $\frac{4}{405} \sqrt{1045}e^{27}$	$(\frac{2}{405}, \frac{67}{405}, -\frac{2}{27}, -\frac{14}{405}, -\frac{14}{405}, -\frac{31}{135}, \frac{23}{135}, -\frac{28}{405}, \frac{136}{405})$ $+ \frac{1}{405} \sqrt{26790}e^1 \otimes e_6 + \frac{4}{135} \sqrt{285}e^2 \otimes e_8$	{123459, 1239, 14789, 24567, 267, 3468}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{2157} \sqrt{216006}e^{12}, \frac{1}{2157} \sqrt{35742}e^{13} + \frac{4}{2157} \sqrt{22533}e^{45},$ $\frac{1}{2157} \sqrt{372442}e^{27}$	$(-\frac{82}{719}, \frac{184}{2157}, \frac{57}{719}, \frac{127}{719}, -\frac{152}{719}, \frac{80}{719}, -\frac{62}{2157}, -\frac{25}{719}, \frac{122}{2157})$ $+ \frac{1}{719} \sqrt{48174}e^4 \otimes e_9 + \frac{4}{719} \sqrt{3885}e^2 \otimes e_8$	{12369, 1239, 156789, 15789, 24567, 2457, 3468, 348}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{33} \sqrt{186}e^{12}, \frac{1}{33} \sqrt{186}e^{13} + \frac{2}{33} \sqrt{186}e^{45}, \frac{1}{33} \sqrt{682}e^{27}$	$(\frac{2}{11}, -\frac{8}{33}, \frac{3}{11}, \frac{7}{11}, -\frac{2}{11}, \frac{2}{11}, -\frac{2}{33}, \frac{5}{11}, -\frac{10}{33})$ $+ \frac{1}{11} \sqrt{186}e^4 \otimes e_9$	{1235689, 123589, 1269, 129, 1356789, 135789, 1679, 179, 234567, 23457, 24678, 2478, 345, 3456, 468, 48}
931:11	$0, 0, 0, 0, 0, 0, \frac{8}{169} \sqrt{11}e^{12}, \frac{12}{169} \sqrt{2}e^{13} + \frac{8}{169} \sqrt{13}e^{45}, \frac{4}{169} \sqrt{58}e^{27}$	$(-\frac{17}{845}, \frac{43}{845}, \frac{2}{169}, -\frac{126}{845}, \frac{119}{845}, -\frac{67}{845}, \frac{2}{65}, -\frac{7}{845}, \frac{69}{845})$ $+ \frac{14}{169} \sqrt{5}e^5 \otimes e_9 + \frac{2}{169} \sqrt{149}e^1 \otimes e_6 + \frac{6}{169} \sqrt{41}e^2 \otimes e_8$	{1239, 14789, 24567, 3568}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{639} \sqrt{23374}e^{12}, \frac{2}{639} \sqrt{22971}e^{13} + \frac{2}{639} \sqrt{23777}e^{45},$ $\frac{4}{639} \sqrt{4030}e^{27}$	$(\frac{464}{639}, -\frac{152}{639}, -\frac{38}{71}, \frac{61}{639}, \frac{61}{639}, \frac{40}{213}, \frac{104}{213}, \frac{122}{639}, \frac{160}{639})$ $+ \frac{2}{639} \sqrt{209157}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 145679, 14579, 1679, 179, 234567, 23457, 2367, 237, 3, 345, 3456, 36}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{1339} \sqrt{37202}e^{12}, \frac{2}{1339} \sqrt{53922}e^{13} + \frac{2}{1339} \sqrt{37202}e^{45},$ $\frac{44}{1339} \sqrt{114}e^{27}$	$(-\frac{292}{1339}, \frac{350}{1339}, \frac{224}{1339}, -\frac{243}{1339}, \frac{175}{1339}, -\frac{194}{1339}, \frac{58}{1339}, -\frac{68}{1339}, \frac{408}{1339})$ $+ \frac{2}{103} \sqrt{418}e^3 \otimes e_6 + \frac{36}{1339} \sqrt{418}e^2 \otimes e_8 + \frac{418}{1339}e^5 \otimes e_4$	{146789, 156789, 348, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{243} \sqrt{754}e^{12}, \frac{2}{243} \sqrt{4290}e^{13} + \frac{4}{243} \sqrt{247}e^{45}, \frac{2}{243} \sqrt{2470}e^{27}$	$(\frac{29}{243}, -\frac{73}{486}, \frac{20}{81}, \frac{89}{486}, \frac{89}{486}, -\frac{25}{81}, -\frac{5}{162}, \frac{89}{243}, -\frac{44}{243})$ $+ \frac{2}{243} \sqrt{5226}e^1 \otimes e_6 + \frac{52}{81}e^3 \otimes e_9$	{124589, 1289, 145789, 1789, 2345678, 23678, 34568, 368}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{361} \sqrt{29054}e^{12}, \frac{1}{361} \sqrt{15522}e^{13} + \frac{4}{361} \sqrt{2189}e^{45},$ $\frac{5}{361} \sqrt{1194}e^{27}$	$(\frac{146}{361}, -\frac{104}{361}, -\frac{53}{361}, \frac{137}{361}, -\frac{44}{361}, \frac{44}{361}, \frac{42}{361}, \frac{93}{361}, -\frac{62}{361})$ $+ \frac{1}{361} \sqrt{72038}e^4 \otimes e_9 + \frac{4}{361} \sqrt{3383}e^1 \otimes e_3$	{1269, 129, 1679, 179, 234567, 23457, 345, 3456}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{467} \sqrt{679}e^{12}, \frac{2}{5137} \sqrt{1067}e^{13} + \frac{4}{5137} \sqrt{41613}e^{45},$ $\frac{2}{5137} \sqrt{135218}e^{27}$	$(-\frac{376}{5137}, \frac{289}{5137}, \frac{471}{5137}, -\frac{301}{5137}, \frac{36}{467}, -\frac{45}{467}, -\frac{87}{5137}, \frac{95}{5137}, \frac{202}{5137})$ $+ \frac{2}{5137} \sqrt{92635}e^4 \otimes e_6 + \frac{4}{5137} \sqrt{40061}e^5 \otimes e_9 + \frac{6}{5137} \sqrt{22310}e^2 \otimes e_8$	{1269, 134789, 23457, 568}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{565} \sqrt{37202}e^{12}, \frac{1}{565} \sqrt{53922}e^{13} + \frac{1}{565} \sqrt{37202}e^{45},$ $\frac{22}{565} \sqrt{114}e^{27}$	$(-\frac{146}{565}, \frac{35}{113}, \frac{112}{565}, -\frac{17}{565}, -\frac{17}{565}, -\frac{97}{565}, \frac{29}{565}, -\frac{34}{565}, \frac{204}{565})$ $+ \frac{13}{565} \sqrt{418}e^3 \otimes e_6 + \frac{18}{565} \sqrt{418}e^2 \otimes e_8$	{123459, 1239, 146789, 24567, 267, 348}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{209} \sqrt{501}e^{12}, \frac{2}{209} \sqrt{1002}e^{13} + \frac{4}{209} \sqrt{501}e^{45}, \frac{2}{209} \sqrt{2338}e^{27}$	$(\frac{24}{209}, \frac{16}{209}, \frac{36}{209}, \frac{197}{209}, -\frac{137}{209}, \frac{42}{209}, \frac{40}{209}, \frac{60}{209}, \frac{56}{209})$ $+ \frac{334}{209}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{253} \sqrt{910}e^{12}, \frac{14}{253} \sqrt{78}e^{13} + \frac{4}{253} \sqrt{91}e^{45}, \frac{2}{253} \sqrt{910}e^{27}$	$(\frac{80}{253}, -\frac{20}{253}, -\frac{12}{253}, \frac{125}{253}, -\frac{57}{253}, -\frac{102}{253}, \frac{60}{253}, \frac{68}{253}, \frac{40}{253})$ $+ \frac{182}{253}e^4 \otimes e_5 + \frac{4}{253} \sqrt{3003}e^1 \otimes e_6$	{12349, 12359, 13479, 13579, 2467, 2567, 46, 56}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{81} \sqrt{910}e^{12}, \frac{7}{81} \sqrt{78}e^{13} + \frac{2}{81} \sqrt{91}e^{45}, \frac{1}{81} \sqrt{910}e^{27}$	$(\frac{40}{81}, -\frac{10}{81}, -\frac{2}{27}, \frac{17}{81}, \frac{17}{81}, -\frac{17}{27}, \frac{10}{27}, \frac{34}{81}, \frac{20}{81})$ $+ \frac{2}{81} \sqrt{3003}e^1 \otimes e_6$	{12349, 124589, 1289, 13479, 145789, 1789, 2345678, 23678, 2467, 34568, 368, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{337}\sqrt{1834}e^{12}, \frac{2}{337}\sqrt{10218}e^{13} + \frac{2}{337}\sqrt{1834}e^{45},$ $\frac{4}{337}\sqrt{393}e^{27}$	$(-\frac{28}{337}, \frac{38}{337}, \frac{128}{337}, \frac{181}{337}, -\frac{81}{337}, -\frac{134}{337}, \frac{10}{337}, \frac{100}{337}, \frac{48}{337})$ $+\frac{262}{337}e^4 \otimes e_5 + \frac{2}{337}\sqrt{22270}e^3 \otimes e_6$	{12347, 12357, 134, 135, 2469, 2569, 4679, 5679}
931:11	$0, 0, 0, 0, 0, 0, \frac{8}{899}\sqrt{1254}e^{12}, \frac{4}{899}\sqrt{286}e^{13} + \frac{8}{899}\sqrt{1254}e^{45}, \frac{44}{899}\sqrt{30}e^{27}$	$(\frac{51}{899}, \frac{102}{899}, -\frac{125}{899}, -\frac{138}{899}, \frac{64}{899}, -\frac{112}{899}, \frac{153}{899}, -\frac{74}{899}, \frac{255}{899})$ $+\frac{36}{899}\sqrt{110}e^2 \otimes e_8 + \frac{8}{899}\sqrt{1111}e^1 \otimes e_3 + \frac{8}{899}\sqrt{1111}e^5 \otimes e_6$	{146789, 15789, 3468, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{1}{9}\sqrt{6}e^{13} + \frac{2}{9}\sqrt{3}e^{45}, \frac{1}{3}\sqrt{2}e^{27}$	$(0, 0, \frac{2}{9}, \frac{1}{3}, -\frac{1}{9}, -\frac{1}{3}, 0, \frac{2}{9}, 0)$ $+\frac{2}{9}\sqrt{6}e^2 \otimes e_6 + \frac{2}{9}\sqrt{6}e^4 \otimes e_9$	{123589, 129, 1356789, 1679, 23457, 2478, 3456, 468}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{542}\sqrt{18091}e^{12}, \frac{1}{542}\sqrt{27938}e^{13} + \frac{1}{542}\sqrt{92058}e^{45},$ $\frac{1}{542}\sqrt{49922}e^{27}$	$(\frac{79}{542}, -\frac{91}{542}, \frac{237}{1084}, \frac{143}{1084}, \frac{63}{271}, -\frac{315}{1084}, -\frac{6}{271}, \frac{395}{1084}, -\frac{103}{542})$ $+\frac{1}{542}\sqrt{98470}e^4 \otimes e_6 + \frac{7}{542}\sqrt{2519}e^5 \otimes e_9$	{123489, 1269, 134789, 1679, 23457, 25678, 345, 568}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{18}\sqrt{23}e^{13} + \frac{1}{18}\sqrt{46}e^{45}, \frac{1}{9}\sqrt{69}e^{27}$	$(\frac{1}{9}, -\frac{7}{36}, \frac{1}{6}, \frac{5}{36}, \frac{5}{36}, 1, -\frac{1}{12}, \frac{5}{18}, -\frac{5}{18})$ $+\frac{1}{18}\sqrt{667}e^6 \otimes e_9$	{123459, 1239, 12489, 134579, 1379, 14789, 234678, 24567, 267, 3468, 456, 6}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{321}\sqrt{1131}e^{12}, \frac{6}{107}\sqrt{29}e^{13} + \frac{2}{321}\sqrt{1131}e^{45}, \frac{2}{321}\sqrt{3103}e^{27}$	$(-\frac{28}{107}, \frac{52}{321}, \frac{26}{107}, -\frac{1}{107}, -\frac{1}{107}, \frac{12}{107}, -\frac{32}{321}, -\frac{2}{107}, \frac{20}{321})$ $+\frac{2}{321}\sqrt{3567}e^3 \otimes e_9 + \frac{6}{107}\sqrt{58}e^2 \otimes e_8$	{146789, 14789, 3468, 348}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{103}\sqrt{1834}e^{12}, \frac{1}{103}\sqrt{10218}e^{13} + \frac{1}{103}\sqrt{1834}e^{45},$ $\frac{2}{103}\sqrt{393}e^{27}$	$(-\frac{14}{103}, \frac{19}{103}, \frac{64}{103}, \frac{25}{103}, \frac{25}{103}, -\frac{67}{103}, \frac{5}{103}, \frac{50}{103}, \frac{24}{103})$ $+\frac{1}{103}\sqrt{22270}e^3 \otimes e_6$	{12347, 1245678, 12678, 134, 14568, 168, 234589, 2389, 2469, 345789, 3789, 4679}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{4290}e^{13} + \frac{2}{243}\sqrt{754}e^{45}, \frac{2}{243}\sqrt{2470}e^{27}$	$(-\frac{38}{243}, -\frac{1}{81}, \frac{20}{81}, \frac{11}{243}, \frac{11}{243}, \frac{14}{27}, -\frac{41}{243}, \frac{22}{243}, -\frac{44}{243})$ $+\frac{2}{243}\sqrt{5226}e^6 \otimes e_8 + \frac{52}{81}e^3 \otimes e_9$	{1234567, 12367, 13456, 136, 24569, 269, 45679, 679}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{542}\sqrt{92058}e^{12}, \frac{1}{542}\sqrt{27938}e^{13} + \frac{1}{542}\sqrt{18091}e^{45},$ $\frac{1}{542}\sqrt{49922}e^{27}$	$(\frac{265}{1084}, \frac{17}{542}, -\frac{193}{1084}, \frac{9}{271}, \frac{9}{271}, \frac{106}{271}, \frac{299}{1084}, \frac{18}{271}, \frac{333}{1084})$ $+\frac{1}{542}\sqrt{98470}e^1 \otimes e_3 + \frac{7}{542}\sqrt{2519}e^2 \otimes e_6$	{12459, 129, 145679, 1679, 23457, 237, 3456, 36}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{517}\sqrt{1474}e^{12}, \frac{4}{517}\sqrt{737}e^{13} + \frac{4}{517}\sqrt{1474}e^{45},$ $\frac{10}{517}\sqrt{402}e^{27}$	$(-\frac{76}{517}, \frac{70}{517}, \frac{12}{517}, \frac{35}{517}, -\frac{9}{47}, \frac{18}{47}, -\frac{6}{517}, -\frac{64}{517}, \frac{64}{517})$ $+\frac{12}{517}\sqrt{469}e^2 \otimes e_8 + \frac{134}{517}e^4 \otimes e_5 + \frac{2}{517}\sqrt{9514}e^6 \otimes e_9$	{14789, 15789, 3468, 3568}
931:11	$0, 0, 0, 0, 0, 0, \frac{8}{1539}\sqrt{967}e^{12}, \frac{1}{1539}\sqrt{551190}e^{13} + \frac{1}{1539}\sqrt{299770}e^{45},$ $\frac{2}{1539}\sqrt{157621}e^{27}$	$(-\frac{64}{1539}, -\frac{35}{513}, \frac{77}{171}, \frac{595}{1539}, \frac{34}{1539}, -\frac{124}{513}, -\frac{169}{1539}, \frac{629}{1539}, -\frac{274}{1539})$ $+\frac{1}{1539}\sqrt{1084974}e^4 \otimes e_6 + \frac{1}{1539}\sqrt{1525926}e^3 \otimes e_9$	{123457, 12367, 1345, 136, 2459, 269, 4579, 679}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{2273}\sqrt{170006}e^{12}, \frac{1}{2273}\sqrt{7014}e^{13} + \frac{2}{2273}\sqrt{53273}e^{45},$ $\frac{1}{2273}\sqrt{215430}e^{27}$	$(\frac{28}{2273}, \frac{56}{2273}, -\frac{139}{2273}, -\frac{418}{2273}, \frac{307}{2273}, \frac{220}{2273}, \frac{84}{2273}, -\frac{111}{2273}, \frac{140}{2273})$ $+\frac{26}{2273}\sqrt{167}e^1 \otimes e_3 + \frac{5}{2273}\sqrt{9686}e^5 \otimes e_9 + \frac{6}{2273}\sqrt{9185}e^2 \otimes e_8$	{146789, 14789, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{1865}\sqrt{122982}e^{12}, \frac{1}{1865}\sqrt{51342}e^{13} + \frac{2}{1865}\sqrt{52138}e^{45},$ $\frac{9}{1865}\sqrt{2786}e^{27}$	$(-\frac{246}{1865}, \frac{36}{373}, \frac{227}{1865}, -\frac{332}{1865}, \frac{313}{1865}, \frac{28}{1865}, -\frac{66}{1865}, -\frac{19}{1865}, \frac{114}{1865})$ $+\frac{1}{1865}\sqrt{256710}e^5 \otimes e_9 + \frac{24}{1865}\sqrt{597}e^2 \otimes e_8 + \frac{2}{1865}\sqrt{16318}e^3 \otimes e_6$	{1239, 146789, 24567, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{507}\sqrt{17646}e^{12}, \frac{4}{507}\sqrt{173}e^{13} + \frac{1}{507}\sqrt{44634}e^{45},$ $\frac{4}{507}\sqrt{1730}e^{27}$	$(\frac{34}{169}, -\frac{82}{507}, -\frac{71}{507}, \frac{37}{169}, -\frac{80}{507}, \frac{68}{169}, \frac{20}{507}, \frac{31}{507}, -\frac{62}{507})$ $+\frac{1}{507}\sqrt{53630}e^6 \otimes e_8 + \frac{1}{507}\sqrt{66086}e^4 \otimes e_9 + \frac{4}{507}\sqrt{2422}e^1 \otimes e_3$	{12589, 15789, 23478, 348}
931:11	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{186}e^{12}, \frac{1}{33}\sqrt{186}e^{13} + \frac{1}{33}\sqrt{186}e^{45}, \frac{1}{33}\sqrt{682}e^{27}$	$(-\frac{1}{11}, \frac{10}{33}, \frac{3}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{7}{33}, \frac{2}{11}, \frac{17}{33})$ $+\frac{1}{11}\sqrt{186}e^2 \otimes e_6$	{123489, 12459, 129, 1346789, 145679, 1679, 23457, 237, 2478, 3456, 36, 468}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{45066}e^{12}, \frac{1}{391}\sqrt{22274}e^{13} + \frac{1}{391}\sqrt{45066}e^{45},$ $\frac{1}{391}\sqrt{7770}e^{27}$	$(\frac{174}{391}, -\frac{57}{391}, -\frac{5}{23}, \frac{131}{391}, -\frac{42}{391}, -\frac{128}{391}, \frac{117}{391}, \frac{89}{391}, \frac{60}{391})$ $+\frac{1}{391}\sqrt{89614}e^1 \otimes e_3 + \frac{1}{391}\sqrt{89614}e^4 \otimes e_6$	{12459, 1269, 14579, 1679, 23457, 2367, 345, 36}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{97}\sqrt{186}e^{12}, \frac{2}{97}\sqrt{186}e^{13} + \frac{2}{97}\sqrt{186}e^{45}, \frac{2}{97}\sqrt{682}e^{27}$	$(-\frac{6}{97}, \frac{20}{97}, \frac{18}{97}, \frac{37}{97}, -\frac{25}{97}, -\frac{42}{97}, \frac{14}{97}, \frac{12}{97}, \frac{34}{97})$ $+\frac{62}{97}e^4 \otimes e_5 + \frac{6}{97}\sqrt{186}e^2 \otimes e_6$	{123489, 123589, 1346789, 1356789, 2478, 2578, 468, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{299}\sqrt{1122}e^{12}, \frac{4}{299}\sqrt{561}e^{13} + \frac{4}{299}\sqrt{1122}e^{45},$ $\frac{4}{299}\sqrt{1309}e^{27}$	$(-\frac{57}{299}, \frac{88}{299}, \frac{9}{299}, \frac{44}{299}, -\frac{4}{13}, \frac{42}{299}, \frac{31}{299}, -\frac{48}{299}, \frac{119}{299})$ $+\frac{12}{299}\sqrt{357}e^2 \otimes e_8 + \frac{136}{299}e^4 \otimes e_5$	{146789, 14789, 156789, 15789, 3468, 348, 3568, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{219}\sqrt{5430}e^{12}, \frac{1}{146}\sqrt{2534}e^{13} + \frac{1}{146}\sqrt{181}e^{45},$ $\frac{1}{219}\sqrt{13213}e^{27}$	$(-\frac{49}{292}, \frac{37}{438}, \frac{121}{292}, \frac{9}{73}, \frac{9}{73}, -\frac{24}{73}, -\frac{1}{73}, \frac{18}{73}, \frac{1}{876})$ $+\frac{1}{146}\sqrt{7783}e^2 \otimes e_6 + \frac{1}{438}\sqrt{70590}e^3 \otimes e_9$	{124589, 1289, 1456789, 16789, 234578, 2378, 34568, 368}
931:11	$0, 0, 0, 0, 0, 0, \frac{32}{3807}\sqrt{458}e^{12}, \frac{32}{3807}\sqrt{705}e^{13} + \frac{64}{3807}\sqrt{163}e^{45},$ $\frac{160}{3807}\sqrt{43}e^{27}$	$(-\frac{785}{3807}, \frac{182}{1269}, \frac{91}{423}, -\frac{274}{3807}, \frac{308}{3807}, -\frac{68}{1269}, -\frac{239}{3807}, \frac{34}{3807}, \frac{307}{3807})$ $+\frac{32}{3807}\sqrt{1146}e^3 \otimes e_9 + \frac{32}{3807}\sqrt{582}e^5 \otimes e_6 + \frac{32}{423}\sqrt{21}e^2 \otimes e_8$	{146789, 15789, 3468, 358}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{9}{157}\sqrt{101}e^{13} + \frac{1}{157}\sqrt{1515}e^{45},$ $\frac{1}{157}\sqrt{7171}e^{27}$	$(-\frac{15}{157}, -\frac{10}{157}, \frac{66}{157}, \frac{76}{157}, -\frac{25}{157}, \frac{18}{157}, -\frac{25}{157}, \frac{51}{157}, -\frac{35}{157})$ $-\frac{101}{157}e^4 \otimes e_5 + \frac{1}{157}\sqrt{17877}e^3 \otimes e_9$	{123467, 12347, 123567, 12357, 134, 1346, 135, 1356, 2469, 249, 2569, 259, 4679, 479, 5679, 579}
931:11	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{9}{157}\sqrt{101}e^{13} + \frac{1}{157}\sqrt{1515}e^{45},$ $\frac{1}{157}\sqrt{7171}e^{27}$	$(-\frac{15}{157}, -\frac{10}{157}, \frac{66}{157}, \frac{76}{157}, -\frac{25}{157}, \frac{18}{157}, -\frac{25}{157}, \frac{51}{157}, -\frac{35}{157})$ $+\frac{101}{157}e^4 \otimes e_5 + \frac{1}{157}\sqrt{17877}e^3 \otimes e_9$	{123467, 12347, 123567, 12357, 134, 1346, 135, 1356, 2469, 249, 2569, 259, 4679, 479, 5679, 579}
931:11	$0, 0, 0, 0, 0, 0, \frac{4}{231}\sqrt{1122}e^{12}, \frac{4}{231}\sqrt{561}e^{13} + \frac{4}{231}\sqrt{1122}e^{45},$ $\frac{4}{231}\sqrt{1309}e^{27}$	$(-\frac{19}{77}, \frac{8}{21}, \frac{3}{77}, -\frac{8}{77}, -\frac{8}{77}, \frac{2}{31}, \frac{31}{231}, -\frac{16}{77}, \frac{17}{33})$ $+\frac{4}{77}\sqrt{357}e^2 \otimes e_8$	{1234569, 123459, 12369, 1239, 146789, 14789, 24567, 2457, 267, 27, 3468, 348}
931:12	$0, 0, 0, 0, 0, 0, \frac{8}{67}\sqrt{19}e^{12}, \frac{4}{67}\sqrt{57}e^{34} + \frac{4}{67}\sqrt{57}e^{56}, \frac{2}{67}\sqrt{57}e^{17}$	$(-\frac{10}{67}, \frac{32}{67}, \frac{16}{67}, -\frac{22}{67}, -\frac{3}{67}, -\frac{3}{67}, \frac{22}{67}, -\frac{6}{67}, \frac{12}{67})$ $+\frac{2}{67}\sqrt{741}e^2 \otimes e_8 + \frac{38}{67}e^3 \otimes e_4$	{13578, 14578, 358, 458}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{59}\sqrt{47}e^{12}, \frac{2}{59}\sqrt{141}e^{34} + \frac{2}{59}\sqrt{141}e^{56}, \frac{4}{59}\sqrt{47}e^{17}$	$(\frac{4}{59}, \frac{8}{59}, \frac{56}{59}, -\frac{38}{59}, \frac{9}{59}, \frac{12}{59}, \frac{18}{59}, \frac{16}{59})$ $+\frac{94}{59}e^3 \otimes e_4$	{123589, 124589, 13578, 14578, 235789, 245789, 358, 458}
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{47}e^{12}, \frac{1}{53}\sqrt{141}e^{34} + \frac{1}{53}\sqrt{141}e^{56}, \frac{2}{53}\sqrt{47}e^{17}$	$(\frac{2}{53}, \frac{4}{53}, \frac{28}{53}, -\frac{19}{53}, \frac{28}{53}, -\frac{19}{53}, \frac{6}{53}, \frac{9}{53}, \frac{8}{53})$ $+\frac{47}{53}e^3 \otimes e_4 + \frac{47}{53}e^5 \otimes e_6$	{123589, 123689, 124689, 13578, 13678, 14678, 235789, 236789, 246789, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{19}e^{12}, \frac{1}{12}\sqrt{57}e^{34} + \frac{1}{12}\sqrt{57}e^{56}, \frac{1}{24}\sqrt{57}e^{17}$	$(-\frac{5}{24}, \frac{2}{3}, -\frac{1}{16}, -\frac{1}{16}, -\frac{1}{16}, -\frac{1}{16}, \frac{11}{24}, -\frac{1}{8}, \frac{1}{4})$ $+\frac{1}{24}\sqrt{741}e^2 \otimes e_8$	{1234569, 12349, 129, 13578, 2345679, 23479, 279, 358}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{259}\sqrt{561}e^{12}, \frac{4}{259}\sqrt{858}e^{34} + \frac{20}{259}\sqrt{11}e^{56}, \frac{4}{259}\sqrt{506}e^{17}$	$(-\frac{65}{259}, \frac{102}{259}, \frac{60}{259}, -\frac{46}{259}, \frac{1}{37}, \frac{1}{37}, \frac{1}{7}, \frac{2}{37}, -\frac{4}{37})$ $+\frac{44}{259}\sqrt{11}e^2 \otimes e_8 + \frac{4}{259}\sqrt{1166}e^3 \otimes e_9$	{12569, 129, 13578, 25679, 279, 358}
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{47}e^{12}, \frac{1}{53}\sqrt{141}e^{34} + \frac{1}{53}\sqrt{141}e^{56}, \frac{2}{53}\sqrt{47}e^{17}$	$(\frac{2}{53}, \frac{4}{53}, \frac{28}{53}, -\frac{19}{53}, \frac{28}{53}, -\frac{19}{53}, \frac{6}{53}, \frac{9}{53}, \frac{8}{53})$ $+\frac{47}{53}e^3 \otimes e_4 - \frac{47}{53}e^5 \otimes e_6$	{123589, 123689, 124689, 13578, 13678, 14678, 235789, 236789, 246789, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{12}{5957}\sqrt{5455}e^{12}, \frac{4}{5957}\sqrt{45822}e^{34} + \frac{12}{5957}\sqrt{31639}e^{56},$ $\frac{2}{5957}\sqrt{1769602}e^{17}$	$(\frac{640}{5957}, -\frac{1542}{5957}, \frac{257}{851}, -\frac{383}{5957}, \frac{1920}{5957}, -\frac{72}{851}, -\frac{902}{5957}, \frac{1416}{5957}, -\frac{262}{5957})$ $+\frac{2182}{5957}e^3 \otimes e_4 + \frac{2}{5957}\sqrt{2075082}e^1 \otimes e_2 + \frac{4}{5957}\sqrt{661146}e^5 \otimes e_9$	{13567, 14567, 2379, 2479}
931:12	$0, 0, 0, 0, 0, 0, \frac{8}{247}\sqrt{110}e^{12}, \frac{8}{247}\sqrt{638}e^{34} + \frac{16}{741}\sqrt{231}e^{56}, \frac{8}{741}\sqrt{5434}e^{17}$	$(-\frac{157}{741}, \frac{30}{247}, \frac{160}{247}, -\frac{42}{247}, \frac{59}{247}, \frac{59}{247}, -\frac{67}{741}, \frac{118}{247}, -\frac{224}{741})$ $+\frac{16}{741}\sqrt{3333}e^3 \otimes e_9$	{1245689, 12489, 1259, 13457, 135678, 1378, 2456789, 24789, 2579, 345, 3568, 38}
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{341}e^{12}, \frac{1}{97}\sqrt{1023}e^{34} + \frac{1}{97}\sqrt{1023}e^{56}, \frac{2}{97}\sqrt{341}e^{17}$	$(\frac{22}{97}, -\frac{10}{97}, \frac{11}{97}, -\frac{20}{97}, \frac{11}{97}, -\frac{20}{97}, \frac{12}{97}, -\frac{9}{97}, \frac{34}{97})$ $+\frac{31}{97}e^3 \otimes e_4 + \frac{31}{97}e^5 \otimes e_6 + \frac{6}{97}\sqrt{93}e^1 \otimes e_8$	{235789, 236789, 246789, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{183}\sqrt{1398}e^{12}, \frac{1}{61}\sqrt{466}e^{34} + \frac{1}{61}\sqrt{466}e^{56}, \frac{1}{183}\sqrt{28426}e^{17}$	$(\frac{110}{183}, -\frac{41}{61}, \frac{9}{61}, \frac{9}{61}, \frac{9}{61}, \frac{9}{61}, -\frac{13}{183}, \frac{18}{61}, \frac{97}{183})$ $+\frac{7}{183}\sqrt{1398}e^1 \otimes e_2$	{134567, 1347, 13578, 17, 2345679, 23479, 235789, 279}
931:12	$0, 0, 0, 0, 0, 0, \frac{24}{1093}\sqrt{110}e^{12}, \frac{16}{1093}\sqrt{231}e^{34} + \frac{24}{1093}\sqrt{638}e^{56},$ $\frac{8}{1093}\sqrt{5434}e^{17}$	$(-\frac{157}{1093}, \frac{90}{1093}, \frac{529}{1093}, -\frac{175}{1093}, \frac{480}{1093}, -\frac{126}{1093}, -\frac{67}{1093}, \frac{354}{1093}, -\frac{224}{1093})$ $+\frac{16}{1093}\sqrt{3333}e^5 \otimes e_9 + \frac{164}{1093}e^3 \otimes e_4$	{1239, 1249, 13567, 14567, 2379, 2479, 356, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{341e^{12}}, \frac{1}{97}\sqrt{1023e^{34}} + \frac{1}{97}\sqrt{1023e^{56}}, \frac{2}{97}\sqrt{341e^{17}}$	$(\frac{22}{97}, -\frac{10}{97}, \frac{11}{97}, -\frac{20}{97}, \frac{11}{97}, -\frac{20}{97}, \frac{12}{97}, -\frac{9}{97}, \frac{34}{97})$ $+ \frac{31}{97}e^3 \otimes e_4 - \frac{31}{97}e^5 \otimes e_6 + \frac{6}{97}\sqrt{93e^1} \otimes e_8$	{235789, 236789, 246789, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{19e^{12}}, \frac{2}{43}\sqrt{57e^{34}} + \frac{2}{43}\sqrt{57e^{56}}, \frac{1}{43}\sqrt{57e^{17}}$	$(-\frac{5}{43}, \frac{16}{43}, \frac{8}{43}, -\frac{11}{43}, \frac{8}{43}, -\frac{11}{43}, \frac{11}{43}, -\frac{3}{43}, \frac{6}{43})$ $+ \frac{19}{43}e^3 \otimes e_4 + \frac{19}{43}e^5 \otimes e_6 + \frac{1}{43}\sqrt{741e^2} \otimes e_8$	{13578, 13678, 14678, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{1398e^{12}}, \frac{3}{416}\sqrt{466e^{34}} + \frac{3}{416}\sqrt{466e^{56}},$ $\frac{1}{416}\sqrt{28426e^{17}}$	$(\frac{55}{208}, -\frac{123}{416}, \frac{287}{832}, -\frac{179}{832}, \frac{287}{832}, -\frac{179}{832}, -\frac{1}{32}, \frac{27}{208}, \frac{97}{416})$ $+ \frac{233}{416}e^3 \otimes e_4 - \frac{233}{416}e^5 \otimes e_6 + \frac{7}{416}\sqrt{1398e^1} \otimes e_2$	{13578, 13678, 14678, 235789, 236789, 246789}
931:12	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{341e^{12}}, \frac{1}{66}\sqrt{1023e^{34}} + \frac{1}{66}\sqrt{1023e^{56}}, \frac{1}{33}\sqrt{341e^{17}}$	$(\frac{1}{3}, -\frac{5}{33}, -\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, \frac{2}{11}, -\frac{3}{22}, \frac{17}{33})$ $+ \frac{1}{11}\sqrt{93e^1} \otimes e_8$	{1234569, 12349, 129, 134567, 1347, 17, 235789, 358}
931:12	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{1398e^{12}}, \frac{3}{416}\sqrt{466e^{34}} + \frac{3}{416}\sqrt{466e^{56}},$ $\frac{1}{416}\sqrt{28426e^{17}}$	$(\frac{55}{208}, -\frac{123}{416}, \frac{287}{832}, -\frac{179}{832}, \frac{287}{832}, -\frac{179}{832}, -\frac{1}{32}, \frac{27}{208}, \frac{97}{416})$ $+ \frac{233}{416}e^3 \otimes e_4 + \frac{233}{416}e^5 \otimes e_6 + \frac{7}{416}\sqrt{1398e^1} \otimes e_2$	{13578, 13678, 14678, 235789, 236789, 246789}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{163}\sqrt{341e^{12}}, \frac{2}{163}\sqrt{1023e^{34}} + \frac{2}{163}\sqrt{1023e^{56}}, \frac{4}{163}\sqrt{341e^{17}}$	$(\frac{44}{163}, -\frac{20}{163}, \frac{22}{163}, -\frac{40}{163}, \frac{9}{163}, -\frac{9}{163}, \frac{24}{163}, -\frac{18}{163}, \frac{68}{163})$ $+ \frac{12}{163}\sqrt{93e^1} \otimes e_8 + \frac{62}{163}e^3 \otimes e_4$	{235789, 245789, 358, 458}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{1398e^{12}}, \frac{6}{599}\sqrt{466e^{34}} + \frac{6}{599}\sqrt{466e^{56}},$ $\frac{2}{599}\sqrt{28426e^{17}}$	$(\frac{220}{599}, -\frac{246}{599}, \frac{287}{599}, -\frac{179}{599}, \frac{54}{599}, \frac{54}{599}, -\frac{26}{599}, \frac{108}{599}, \frac{194}{599})$ $+ \frac{14}{599}\sqrt{1398e^1} \otimes e_2 + \frac{466}{599}e^3 \otimes e_4$	{13578, 14578, 235789, 245789}
931:12	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{5455e^{12}}, \frac{2}{811}\sqrt{31639e^{34}} + \frac{2}{2433}\sqrt{45822e^{56}},$ $\frac{1}{2433}\sqrt{1769602e^{17}}$	$(\frac{320}{2433}, -\frac{257}{811}, \frac{320}{811}, -\frac{84}{811}, \frac{118}{811}, \frac{118}{811}, -\frac{451}{2433}, \frac{236}{811}, -\frac{131}{2433})$ $+ \frac{1}{2433}\sqrt{2075082e^1} \otimes e_2 + \frac{2}{2433}\sqrt{661146e^3} \otimes e_9$	{13457, 135678, 1378, 2456789, 24789, 2579}
931:12	$0, 0, 0, 0, 0, 0, \frac{1}{773}\sqrt{23210e^{12}}, \frac{2}{773}\sqrt{8018e^{34}} + \frac{1}{2319}\sqrt{112674e^{56}},$ $\frac{1}{2319}\sqrt{326206e^{17}}$	$(\frac{217}{2319}, -\frac{75}{773}, \frac{140}{773}, -\frac{138}{773}, \frac{1}{773}, \frac{1}{773}, -\frac{8}{2319}, \frac{2}{773}, \frac{209}{2319})$ $+ \frac{2}{2319}\sqrt{87987e^3} \otimes e_9 + \frac{3}{773}\sqrt{6330e^1} \otimes e_8$	{12569, 129, 134567, 1347, 245789, 358}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{19e^{12}}, \frac{2}{43}\sqrt{57e^{34}} + \frac{2}{43}\sqrt{57e^{56}}, \frac{1}{43}\sqrt{57e^{17}}$	$(-\frac{5}{43}, \frac{16}{43}, \frac{8}{43}, -\frac{11}{43}, \frac{8}{43}, -\frac{11}{43}, \frac{11}{43}, -\frac{3}{43}, \frac{6}{43})$ $+ \frac{19}{43}e^3 \otimes e_4 - \frac{19}{43}e^5 \otimes e_6 + \frac{1}{43}\sqrt{741e^2} \otimes e_8$	{13578, 13678, 14678, 358, 368, 468}
931:12	$0, 0, 0, 0, 0, 0, \frac{4}{303}\sqrt{561e^{12}}, \frac{20}{303}\sqrt{11e^{34}} + \frac{4}{303}\sqrt{858e^{56}}, \frac{4}{303}\sqrt{506e^{17}}$	$(-\frac{65}{303}, \frac{34}{101}, \frac{17}{101}, -\frac{37}{303}, \frac{20}{101}, -\frac{46}{303}, \frac{37}{303}, \frac{14}{303}, -\frac{28}{303})$ $+ \frac{44}{303}\sqrt{11e^2} \otimes e_8 + \frac{4}{303}\sqrt{1166e^5} \otimes e_9 + \frac{88}{303}e^3 \otimes e_4$	{13578, 14578, 358, 458}
931:12	$0, 0, 0, 0, 0, 0, \frac{6}{4849}\sqrt{23210e^{12}}, \frac{2}{4849}\sqrt{112674e^{34}} + \frac{12}{4849}\sqrt{8018e^{56}},$ $\frac{2}{4849}\sqrt{326206e^{17}}$	$(\frac{434}{4849}, -\frac{450}{4849}, \frac{217}{4849}, -\frac{205}{4849}, \frac{840}{4849}, -\frac{828}{4849}, \frac{16}{4849}, \frac{12}{4849}, \frac{418}{4849})$ $+ \frac{18}{4849}\sqrt{6330e^1} \otimes e_8 + \frac{422}{4849}e^3 \otimes e_4 + \frac{4}{4849}\sqrt{87987e^5} \otimes e_9$	{236789, 246789, 358, 458}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1497}\sqrt{138306e^{12}}, \frac{1}{1497}\sqrt{6230e^{13}},$ $\frac{2}{1497}\sqrt{99057e^{14}} + \frac{1}{1497}\sqrt{140798e^{27}}$	$(\frac{74}{499}, -\frac{94}{1497}, -\frac{401}{1497}, -\frac{188}{1497}, \frac{148}{499}, \frac{219}{499}, \frac{128}{1497}, -\frac{179}{1497}, \frac{34}{1497})$ $+ \frac{1}{1497}\sqrt{656642e^6} \otimes e_9 + \frac{2}{1497}\sqrt{163849e^1} \otimes e_3 + \frac{2}{1497}\sqrt{97811e^5} \otimes e_8$	{1289, 1789, 23678, 368}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{305}\sqrt{74e^{12}}, \frac{2}{305}\sqrt{4070e^{13}}, \frac{2}{305}\sqrt{1591e^{14}} + \frac{2}{305}\sqrt{777e^{27}}$	$(\frac{36}{305}, -\frac{19}{305}, \frac{2}{305}, -\frac{38}{305}, \frac{112}{305}, -\frac{72}{305}, \frac{17}{305}, \frac{38}{305}, -\frac{2}{305})$ $+ \frac{2}{305}\sqrt{3737e^1} \otimes e_4 + \frac{4}{305}\sqrt{851e^3} \otimes e_6 + \frac{4}{305}\sqrt{851e^5} \otimes e_8$	{23478, 24567, 348, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{398}\sqrt{13195e^{12}}, \frac{1}{398}\sqrt{13195e^{13}},$ $\frac{7}{199}\sqrt{203e^{14}} + \frac{1}{398}\sqrt{15834e^{27}}$	$(\frac{65}{398}, -\frac{53}{796}, \frac{25}{796}, -\frac{53}{398}, \frac{215}{398}, -\frac{69}{199}, \frac{77}{796}, \frac{155}{796}, \frac{6}{199})$ $+ \frac{1}{199}\sqrt{17255e^5} \otimes e_9 + \frac{1}{398}\sqrt{74298e^1} \otimes e_6$	{1239, 1289, 1379, 1789, 235678, 2567, 3568, 56}
931:13	$0, 0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031e^{12}}, \frac{1}{1403}\sqrt{439206e^{13}},$ $\frac{1}{1403}\sqrt{476322e^{14}} + \frac{3}{1403}\sqrt{6186e^{27}}$	$(-\frac{196}{1403}, \frac{275}{1403}, \frac{559}{1403}, \frac{550}{1403}, -\frac{472}{1403}, -\frac{481}{1403}, \frac{79}{1403}, \frac{363}{1403}, \frac{354}{1403})$ $+ \frac{1}{1403}\sqrt{1301122e^4} \otimes e_6 + \frac{2}{1403}\sqrt{320641e^3} \otimes e_5$	{123679, 1256789, 1369, 15689, 2368, 256, 3678, 567}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{3929}\sqrt{38958e^{12}}, \frac{2}{3929}\sqrt{597054e^{13}},$ $\frac{6}{3929}\sqrt{5587e^{14}} + \frac{6}{3929}\sqrt{29747e^{27}}$	$(\frac{172}{3929}, -\frac{367}{3929}, \frac{344}{3929}, -\frac{734}{3929}, \frac{1422}{3929}, \frac{310}{3929}, -\frac{195}{3929}, \frac{516}{3929}, -\frac{562}{3929})$ $+ \frac{4}{3929}\sqrt{125934e^5} \otimes e_8 + \frac{52}{3929}\sqrt{906e^3} \otimes e_9 + \frac{6}{3929}\sqrt{58135e^1} \otimes e_4$	{234678, 23478, 3468, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:13	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{5}e^{13}, \frac{3}{13}\sqrt{3}e^{14} + \frac{3}{13}\sqrt{2}e^{27}$	$(\frac{5}{13}, -\frac{2}{13}, -\frac{1}{13}, -\frac{4}{13}, \frac{6}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{14}e^1 \otimes e_4 + \frac{9}{13}e^5 \otimes e_6$	{234578, 234678, 2457, 2467, 3458, 3468, 45, 46}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{609}\sqrt{13193}e^{12}, \frac{2}{203}\sqrt{395}e^{13},$ $\frac{2}{609}\sqrt{5135}e^{14} + \frac{2}{609}\sqrt{12877}e^{27}$	$(\frac{30}{203}, -\frac{34}{609}, \frac{1}{87}, -\frac{68}{609}, \frac{60}{203}, -\frac{64}{203}, \frac{8}{87}, \frac{97}{609}, \frac{22}{609})$ $+ \frac{16}{609}\sqrt{158}e^5 \otimes e_9 + \frac{2}{609}\sqrt{14615}e^1 \otimes e_4 + \frac{4}{609}\sqrt{4819}e^2 \otimes e_6$	{234578, 2457, 34568, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{712}\sqrt{31493}e^{12}, \frac{1}{712}\sqrt{31493}e^{13},$ $\frac{1}{712}\sqrt{25718}e^{14} + \frac{1}{356}\sqrt{8162}e^{27}$	$(\frac{15}{178}, -\frac{17}{1424}, -\frac{291}{1424}, -\frac{17}{712}, \frac{15}{89}, \frac{59}{712}, \frac{103}{1424}, -\frac{171}{1424}, \frac{43}{712})$ $+ \frac{1}{712}\sqrt{53746}e^2 \otimes e_8 + \frac{1}{712}\sqrt{9394}e^5 \otimes e_9 + \frac{9}{712}\sqrt{462}e^1 \otimes e_4$	{24567, 2457, 34568, 3458}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{221}\sqrt{3243}e^{12}, \frac{2}{221}\sqrt{1794}e^{13}, \frac{6}{221}\sqrt{138}e^{14} + \frac{12}{221}\sqrt{23}e^{27}$	$(-\frac{47}{221}, \frac{1}{13}, \frac{56}{221}, \frac{2}{13}, \frac{6}{17}, -\frac{35}{221}, -\frac{30}{221}, \frac{9}{221}, -\frac{1}{17})$ $+ \frac{11}{221}\sqrt{69}e^5 \otimes e_8 + \frac{1}{221}\sqrt{12489}e^3 \otimes e_9 + \frac{3}{221}\sqrt{805}e^4 \otimes e_6$	{123457, 1345, 2459, 4579}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{7414}e^{13},$ $\frac{2}{531}\sqrt{14491}e^{14} + \frac{2}{531}\sqrt{15502}e^{27}$	$(-\frac{40}{531}, \frac{23}{177}, -\frac{103}{531}, \frac{46}{177}, 1, \frac{95}{531}, \frac{29}{531}, -\frac{143}{531}, \frac{98}{531})$ $+ \frac{4}{531}\sqrt{36733}e^5 \otimes e_8$	{123567, 12357, 12678, 1278, 135, 1356, 168, 18, 23689, 2389, 2569, 259, 36789, 3789, 5679, 579}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{3257}\sqrt{319422}e^{12}, \frac{4}{3257}\sqrt{29190}e^{13},$ $\frac{6}{3257}\sqrt{15290}e^{14} + \frac{6}{3257}\sqrt{30302}e^{27}$	$(\frac{405}{3257}, -\frac{37}{3257}, -\frac{429}{3257}, -\frac{74}{3257}, \frac{1165}{3257}, -\frac{871}{3257}, \frac{368}{3257}, -\frac{24}{3257}, \frac{331}{3257})$ $+ \frac{14}{3257}\sqrt{9591}e^2 \otimes e_6 + \frac{2}{3257}\sqrt{402405}e^1 \otimes e_3 + \frac{6}{3257}\sqrt{42117}e^5 \otimes e_9$	{129, 1679, 2357, 356}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{2353}\sqrt{79755}e^{12}, \frac{6}{2353}\sqrt{5317}e^{13},$ $\frac{2}{2353}\sqrt{107567}e^{14} + \frac{2}{2353}\sqrt{203273}e^{27}$	$(-\frac{365}{2353}, \frac{21}{181}, \frac{93}{2353}, \frac{42}{181}, \frac{999}{2353}, -\frac{545}{2353}, -\frac{92}{2353}, -\frac{272}{2353}, \frac{1}{13})$ $+ \frac{2}{2353}\sqrt{244991}e^4 \otimes e_8 + \frac{2}{2353}\sqrt{308795}e^2 \otimes e_6 + \frac{2}{2353}\sqrt{322701}e^5 \otimes e_9$	{1289, 16789, 23578, 3568}
931:13	$0, 0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{1}{1403}\sqrt{439206}e^{13},$ $\frac{1}{1403}\sqrt{476322}e^{14} + \frac{3}{1403}\sqrt{6186}e^{27}$	$(-\frac{196}{1403}, \frac{275}{1403}, -\frac{63}{1403}, \frac{550}{1403}, \frac{772}{1403}, -\frac{481}{1403}, \frac{79}{1403}, -\frac{259}{1403}, \frac{354}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^4 \otimes e_6 + \frac{2}{1403}\sqrt{320641}e^5 \otimes e_8$	{1235679, 126789, 13569, 1689, 2368, 256, 3678, 567}
931:13	$0, 0, 0, 0, 0, 0, \frac{8}{4011}\sqrt{1218}e^{12}, \frac{200}{4011}\sqrt{29}e^{13},$ $\frac{8}{4011}\sqrt{32335}e^{14} + \frac{8}{4011}\sqrt{2407}e^{27}$	$(-\frac{4}{191}, \frac{260}{4011}, -\frac{108}{1337}, \frac{520}{4011}, \frac{1364}{4011}, -\frac{1012}{4011}, \frac{176}{4011}, -\frac{136}{1337}, \frac{436}{4011})$ $+ \frac{232}{4011}\sqrt{46}e^4 \otimes e_8 + \frac{8}{4011}\sqrt{30827}e^5 \otimes e_9 + \frac{8}{4011}\sqrt{38077}e^1 \otimes e_6$	{123457, 1345, 2469, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{40}{479}\sqrt{10}e^{12}, \frac{10}{479}\sqrt{930}e^{13}, \frac{10}{479}\sqrt{235}e^{14} + \frac{50}{479}\sqrt{6}e^{27}$	$(-\frac{64}{479}, \frac{45}{479}, \frac{75}{479}, \frac{90}{479}, \frac{261}{479}, -\frac{175}{479}, -\frac{19}{479}, \frac{11}{479}, \frac{26}{479})$ $+ \frac{10}{479}\sqrt{1090}e^3 \otimes e_6 + \frac{10}{479}\sqrt{1090}e^5 \otimes e_8$	{12357, 12678, 135, 168, 2389, 2569, 3789, 5679}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{2899}\sqrt{77610}e^{12}, \frac{4}{2899}\sqrt{63879}e^{13},$ $\frac{2}{2899}\sqrt{38606}e^{14} + \frac{2}{2899}\sqrt{302082}e^{27}$	$(-\frac{485}{2899}, \frac{176}{2899}, \frac{51}{223}, \frac{352}{2899}, \frac{974}{2899}, -\frac{620}{2899}, -\frac{309}{2899}, \frac{178}{2899}, -\frac{133}{2899})$ $+ \frac{10}{2899}\sqrt{13930}e^2 \otimes e_6 + \frac{20}{2899}\sqrt{4179}e^3 \otimes e_9 + \frac{2}{2899}\sqrt{286162}e^5 \otimes e_8$	{12489, 146789, 23478, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{30}{463}\sqrt{17}e^{12}, \frac{3}{463}\sqrt{3298}e^{13}, \frac{12}{463}\sqrt{187}e^{14} + \frac{9}{463}\sqrt{102}e^{27}$	$(-\frac{100}{463}, \frac{58}{463}, \frac{63}{463}, \frac{116}{463}, \frac{169}{463}, -\frac{90}{463}, \frac{42}{463}, -\frac{37}{463}, \frac{16}{463})$ $+ \frac{15}{463}\sqrt{170}e^3 \otimes e_6 + \frac{39}{463}\sqrt{34}e^4 \otimes e_8 + \frac{6}{463}\sqrt{1139}e^5 \otimes e_9$	{123457, 1345, 2469, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12}, \frac{6}{131}\sqrt{74}e^{13}, \frac{2}{131}\sqrt{851}e^{14} + \frac{12}{131}\sqrt{37}e^{27}$	$(-\frac{10}{131}, \frac{19}{131}, \frac{43}{131}, \frac{38}{131}, -\frac{55}{131}, -\frac{31}{131}, \frac{9}{131}, \frac{33}{131}, \frac{28}{131})$ $+ \frac{2}{131}\sqrt{1702}e^3 \otimes e_6 + \frac{2}{131}\sqrt{2590}e^2 \otimes e_5$	{12349, 124689, 134579, 1456789, 23478, 2467, 3458, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{191}\sqrt{130}e^{12}, \frac{12}{191}\sqrt{5}e^{13}, \frac{20}{191}\sqrt{21}e^{14} + \frac{2}{191}\sqrt{510}e^{27}$	$(\frac{26}{191}, \frac{14}{191}, -\frac{54}{191}, \frac{28}{191}, \frac{52}{191}, -\frac{52}{191}, \frac{40}{191}, -\frac{28}{191}, \frac{54}{191})$ $+ \frac{10}{191}\sqrt{106}e^4 \otimes e_6 + \frac{39}{191}\sqrt{1510}e^5 \otimes e_8 + \frac{2}{191}\sqrt{2910}e^1 \otimes e_3$	{1245, 1457, 234579, 3459}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{451}\sqrt{435}e^{12}, \frac{6}{451}\sqrt{435}e^{13}, \frac{18}{451}\sqrt{43}e^{14} + \frac{12}{451}\sqrt{102}e^{27}$	$(\frac{50}{451}, -\frac{2}{451}, -\frac{106}{451}, -\frac{4}{451}, \frac{39}{451}, \frac{39}{451}, \frac{48}{451}, -\frac{56}{451}, \frac{46}{451})$ $+ \frac{12}{451}\sqrt{129}e^1 \otimes e_4 + \frac{72}{451}\sqrt{5}e^2 \otimes e_8$	{24567, 2457, 247, 34568, 3458, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1133}e^{12}, \frac{4}{323}\sqrt{1133}e^{13},$ $\frac{2}{323}\sqrt{1133}e^{14} + \frac{2}{323}\sqrt{5665}e^{27}$	$(\frac{88}{323}, -\frac{59}{323}, -\frac{4}{323}, -\frac{118}{323}, \frac{176}{323}, \frac{40}{323}, \frac{29}{323}, \frac{84}{323}, -\frac{30}{323})$ $+ \frac{14}{323}\sqrt{309}e^1 \otimes e_4 + \frac{4}{323}\sqrt{3502}e^5 \otimes e_9$	{12369, 1239, 12689, 1289, 13679, 1379, 16789, 1789}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{1699}\sqrt{8587}e^{12}, \frac{1}{1699}\sqrt{377274}e^{13},$ $\frac{1}{1699}\sqrt{1055370}e^{14} + \frac{3}{1699}\sqrt{30470}e^{27}$	$(\frac{372}{1699}, \frac{119}{1699}, -\frac{459}{1699}, \frac{238}{1699}, -\frac{593}{1699}, \frac{140}{1699}, \frac{491}{1699}, -\frac{87}{1699}, \frac{610}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^4 \otimes e_5 + \frac{2}{1699}\sqrt{343203}e^1 \otimes e_3$	{124, 1246, 1467, 147, 234679, 23479, 3469, 349}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:13	$0, 0, 0, 0, 0, 0, \frac{18}{1259}\sqrt{895}e^{12}, \frac{1}{1259}\sqrt{191530}e^{13},$ $\frac{5}{1259}\sqrt{11814}e^{14} + \frac{2}{1259}\sqrt{2685}e^{27}$	$(\frac{324}{1259}, -\frac{9}{1259}, -\frac{571}{1259}, -\frac{18}{1259}, \frac{648}{1259}, \frac{147}{1259}, \frac{315}{1259}, -\frac{247}{1259}, \frac{306}{1259})$ $+ \frac{1}{1259}\sqrt{1093690}e^1 \otimes e_3 + \frac{1}{1259}\sqrt{896790}e^5 \otimes e_8$	{12468, 1248, 14678, 1478, 2346789, 234789, 34689, 3489}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{221}e^{12}, \frac{1}{52}\sqrt{221}e^{13}, \frac{1}{52}\sqrt{34}e^{14} + \frac{1}{26}\sqrt{119}e^{27}$	$(-\frac{9}{52}, \frac{1}{8}, -\frac{3}{104}, \frac{1}{4}, \frac{21}{52}, -\frac{1}{13}, -\frac{5}{104}, -\frac{21}{104}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{34}e^5 \otimes e_9 + \frac{1}{26}\sqrt{187}e^2 \otimes e_8 + \frac{3}{52}\sqrt{34}e^4 \otimes e_6$	{12369, 16789, 2567, 3568}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{365}\sqrt{4947}e^{12}, \frac{2}{365}\sqrt{4947}e^{13},$ $\frac{1}{365}\sqrt{8342}e^{14} + \frac{1}{365}\sqrt{18042}e^{27}$	$(\frac{7}{365}, \frac{41}{365}, -\frac{63}{365}, \frac{82}{365}, -\frac{18}{73}, \frac{39}{365}, \frac{48}{365}, -\frac{56}{365}, \frac{89}{365})$ $+ \frac{1}{365}\sqrt{25026}e^1 \otimes e_5 + \frac{1}{365}\sqrt{38218}e^2 \otimes e_8$	{123469, 12349, 146789, 14789, 24567, 2457, 34568, 3458}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{7414}e^{13},$ $\frac{2}{531}\sqrt{14491}e^{14} + \frac{1}{531}\sqrt{15502}e^{27}$	$(-\frac{40}{531}, \frac{23}{177}, \frac{37}{59}, \frac{46}{177}, -\frac{341}{531}, \frac{95}{531}, \frac{29}{531}, \frac{293}{531}, \frac{98}{531})$ $+ \frac{4}{531}\sqrt{36733}e^3 \otimes e_5$	{12367, 1237, 125678, 12578, 13, 136, 1568, 158, 23689, 2389, 2569, 259, 36789, 3789, 5679, 579}
931:13	$0, 0, 0, 0, 0, 0, \frac{12}{3509}\sqrt{10810}e^{12}, \frac{6}{3509}\sqrt{31678}e^{13},$ $\frac{6}{3509}\sqrt{32195}e^{14} + \frac{18}{3509}\sqrt{3854}e^{27}$	$(\frac{588}{3509}, -\frac{129}{3509}, -\frac{397}{3509}, -\frac{258}{3509}, \frac{1037}{3509}, -\frac{975}{3509}, \frac{459}{3509}, \frac{191}{3509}, \frac{30}{319})$ $+ \frac{12}{3509}\sqrt{14335}e^1 \otimes e_4 + \frac{12}{3509}\sqrt{14711}e^2 \otimes e_6 + \frac{12}{3509}\sqrt{8930}e^5 \otimes e_8$	{23478, 2457, 3468, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{12}, \frac{2}{527}\sqrt{20951}e^{13},$ $\frac{2}{527}\sqrt{45633}e^{14} + \frac{4}{527}\sqrt{1722}e^{27}$	$(\frac{294}{527}, -\frac{36}{527}, -\frac{280}{527}, -\frac{72}{527}, \frac{87}{527}, \frac{87}{527}, \frac{258}{527}, \frac{14}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^1 \otimes e_3$	{124, 1245, 12456, 14567, 1457, 147, 2345679, 234579, 23479, 34569, 3459, 349}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1299}\sqrt{210790}e^{12}, \frac{4}{1299}\sqrt{12305}e^{13},$ $\frac{1}{1299}\sqrt{41730}e^{14} + \frac{2}{1299}\sqrt{119305}e^{27}$	$(-\frac{65}{433}, \frac{31}{433}, \frac{526}{1299}, \frac{62}{433}, -\frac{442}{1299}, \frac{49}{433}, -\frac{34}{433}, \frac{331}{1299}, -\frac{3}{433})$ $+ \frac{1}{1299}\sqrt{602410}e^3 \otimes e_9 + \frac{1}{1299}\sqrt{630230}e^2 \otimes e_5$	{124689, 12489, 1456789, 145789, 234678, 23478, 34568, 3458}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{6322}e^{12}, \frac{10}{441}\sqrt{654}e^{13},$ $\frac{2}{441}\sqrt{7303}e^{14} + \frac{2}{441}\sqrt{4033}e^{27}$	$(\frac{116}{441}, -\frac{17}{147}, \frac{26}{147}, -\frac{34}{147}, -\frac{20}{63}, \frac{44}{441}, \frac{65}{441}, \frac{194}{441}, \frac{2}{63})$ $+ \frac{2}{441}\sqrt{23217}e^1 \otimes e_4 + \frac{4}{441}\sqrt{5014}e^3 \otimes e_5$	{234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{5}{1613}\sqrt{11242}e^{12}, \frac{1}{1613}\sqrt{316382}e^{13},$ $\frac{4}{1613}\sqrt{48983}e^{14} + \frac{1}{1613}\sqrt{203962}e^{27}$	$(-\frac{350}{1613}, \frac{208}{1613}, -\frac{37}{1613}, \frac{416}{1613}, \frac{869}{1613}, \frac{160}{1613}, -\frac{142}{1613}, -\frac{387}{1613}, \frac{66}{1613})$ $+ \frac{1}{1613}\sqrt{1138654}e^5 \otimes e_9 + \frac{4}{1613}\sqrt{74679}e^4 \otimes e_8$	{1234567, 123457, 1345, 13456, 2469, 249, 4679, 479}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{4249}\sqrt{115774}e^{12}, \frac{2}{4249}\sqrt{262385}e^{13},$ $\frac{20}{4249}\sqrt{8115}e^{14} + \frac{4}{4249}\sqrt{2705}e^{27}$	$(\frac{428}{4249}, \frac{25}{4249}, -\frac{654}{4249}, \frac{50}{4249}, \frac{1560}{4249}, -\frac{1032}{4249}, \frac{453}{4249}, -\frac{226}{4249}, \frac{478}{4249})$ $+ \frac{2}{4249}\sqrt{698431}e^4 \otimes e_6 + \frac{2}{4249}\sqrt{703841}e^5 \otimes e_9 + \frac{2}{4249}\sqrt{756318}e^1 \otimes e_3$	{1269, 1679, 23567, 356}
931:13	$0, 0, 0, 0, 0, 0, \frac{20}{1709}\sqrt{910}e^{12}, \frac{315}{1709}\sqrt{10}e^{13},$ $\frac{60}{1709}\sqrt{105}e^{14} + \frac{5}{1709}\sqrt{1330}e^{27}$	$(-\frac{416}{1709}, \frac{386}{1709}, \frac{313}{1709}, \frac{772}{1709}, -\frac{562}{1709}, \frac{159}{1709}, -\frac{30}{1709}, -\frac{103}{1709}, \frac{356}{1709})$ $+ \frac{35}{1709}\sqrt{1030}e^3 \otimes e_5 + \frac{5}{1709}\sqrt{58030}e^4 \otimes e_8$	{1256789, 125789, 15689, 1589, 2368, 238, 3678, 378}
931:13	$0, 0, 0, 0, 0, 0, \frac{198}{1673}\sqrt{6}e^{12}, \frac{99}{1673}\sqrt{86}e^{13},$ $\frac{18}{1673}\sqrt{671}e^{14} + \frac{18}{1673}\sqrt{110}e^{27}$	$(\frac{264}{1673}, \frac{30}{1673}, -\frac{291}{1673}, \frac{60}{1673}, \frac{864}{1673}, -\frac{627}{1673}, \frac{42}{239}, -\frac{27}{1673}, \frac{324}{1673})$ $+ \frac{198}{1673}\sqrt{31}e^5 \otimes e_8 + \frac{9}{1673}\sqrt{17798}e^1 \otimes e_6$	{12359, 1289, 13579, 1789, 23678, 2567, 368, 56}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{1531}\sqrt{15603}e^{12}, \frac{15}{1531}\sqrt{1486}e^{13},$ $\frac{1}{1531}\sqrt{646410}e^{14} + \frac{13}{1531}\sqrt{1486}e^{27}$	$(-\frac{336}{1531}, \frac{155}{1531}, \frac{717}{1531}, \frac{310}{1531}, -\frac{433}{1531}, \frac{156}{1531}, -\frac{181}{1531}, \frac{381}{1531}, -\frac{26}{1531})$ $+ \frac{1}{1531}\sqrt{875254}e^4 \otimes e_5 + \frac{2}{1531}\sqrt{291999}e^3 \otimes e_9$	{123467, 12347, 134, 1346, 2469, 249, 4679, 479}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1181}\sqrt{152886}e^{12}, \frac{1}{1181}\sqrt{64470}e^{13},$ $\frac{2}{1181}\sqrt{3070}e^{14} + \frac{1}{1181}\sqrt{178674}e^{27}$	$(\frac{22}{1181}, \frac{44}{1181}, -\frac{285}{1181}, \frac{88}{1181}, \frac{417}{1181}, \frac{108}{1181}, \frac{66}{1181}, -\frac{263}{1181}, \frac{110}{1181})$ $+ \frac{1}{1181}\sqrt{189726}e^5 \otimes e_9 + \frac{24}{1181}\sqrt{307}e^1 \otimes e_3 + \frac{2}{1181}\sqrt{73066}e^2 \otimes e_8$	{16789, 1789, 3568, 358}
931:13	$0, 0, 0, 0, 0, 0, \frac{12}{1673}\sqrt{335}e^{12}, \frac{3}{1673}\sqrt{58290}e^{13},$ $\frac{12}{1673}\sqrt{2747}e^{14} + \frac{6}{1673}\sqrt{7169}e^{27}$	$(\frac{80}{1673}, -\frac{74}{1673}, \frac{535}{1673}, -\frac{148}{1673}, -\frac{523}{1673}, \frac{180}{1673}, \frac{6}{1673}, \frac{615}{1673}, -\frac{68}{1673})$ $+ \frac{3}{1673}\sqrt{94202}e^1 \otimes e_5 + \frac{6}{1673}\sqrt{26465}e^3 \otimes e_9$	{12689, 1289, 16789, 1789, 235678, 23578, 3568, 358}
931:13	$0, 0, 0, 0, 0, 0, \frac{18}{3161}\sqrt{1978}e^{12}, \frac{6}{3161}\sqrt{52302}e^{13},$ $\frac{18}{3161}\sqrt{943}e^{14} + \frac{6}{3161}\sqrt{26565}e^{27}$	$(\frac{516}{3161}, -\frac{363}{3161}, -\frac{478}{3161}, -\frac{726}{3161}, \frac{1280}{3161}, \frac{1032}{3161}, \frac{153}{3161}, \frac{38}{3161}, -\frac{210}{3161})$ $+ \frac{24}{3161}\sqrt{3243}e^6 \otimes e_9 + \frac{60}{3161}\sqrt{690}e^5 \otimes e_8 + \frac{6}{3161}\sqrt{77901}e^1 \otimes e_4$	{234678, 24567, 3468, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{11}{138}\sqrt{65}e^{12}, \frac{11}{138}\sqrt{65}e^{13}, \frac{1}{69}\sqrt{2002}e^{14} + \frac{1}{138}\sqrt{286}e^{27}$	$(\frac{55}{138}, -\frac{1}{92}, -\frac{5}{276}, -\frac{1}{46}, -\frac{44}{69}, \frac{25}{138}, \frac{107}{276}, \frac{35}{92}, \frac{26}{69})$ $+ \frac{1}{138}\sqrt{32318}e^1 \otimes e_5$	{1234, 12346, 12468, 1248, 13467, 1347, 14678, 1478, 23456789, 2345789, 245679, 24579, 345689, 34589, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1221}e^{12}, \frac{1}{68}\sqrt{1221}e^{13}, \frac{1}{68}\sqrt{814}e^{14} + \frac{1}{34}\sqrt{407}e^{27}$	$(-\frac{13}{68}, \frac{33}{136}, -\frac{15}{136}, \frac{33}{68}, -\frac{1}{17}, \frac{9}{68}, \frac{7}{136}, -\frac{41}{136}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{851}e^2 \otimes e_8 + \frac{1}{68}\sqrt{962}e^4 \otimes e_5$	{123469, 12349, 146789, 14789, 2467, 247, 3468, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{3}{89}\sqrt{205}e^{12}, \frac{3}{89}\sqrt{205}e^{13}, \frac{1}{89}\sqrt{1763}e^{14} + \frac{2}{89}\sqrt{615}e^{27}$	$(-\frac{13}{89}, \frac{16}{89}, -\frac{12}{89}, \frac{32}{89}, \frac{31}{89}, -\frac{10}{89}, \frac{3}{89}, -\frac{25}{89}, \frac{19}{89})$ $+ \frac{2}{89}\sqrt{1189}e^2 \otimes e_8 + \frac{41}{89}e^5 \otimes e_6$	{123459, 123469, 145789, 146789, 2457, 2467, 3458, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{3}{239}\sqrt{435}e^{12}, \frac{3}{239}\sqrt{435}e^{13}, \frac{9}{239}\sqrt{43}e^{14} + \frac{6}{239}\sqrt{102}e^{27}$	$(\frac{25}{239}, -\frac{1}{239}, -\frac{53}{239}, -\frac{2}{239}, \frac{33}{239}, \frac{6}{239}, \frac{24}{239}, -\frac{28}{239}, \frac{23}{239})$ $+ \frac{27}{239}e^5 \otimes e_6 + \frac{36}{239}\sqrt{5}e^2 \otimes e_8 + \frac{6}{239}\sqrt{129}e^1 \otimes e_4$	{2457, 2467, 3458, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{353}\sqrt{9389}e^{12}, \frac{1}{353}\sqrt{6870}e^{13}, \frac{1}{353}\sqrt{2290}e^{14} + \frac{1}{353}\sqrt{35266}e^{27}$	$(-\frac{30}{353}, \frac{77}{353}, \frac{57}{353}, \frac{154}{353}, -\frac{152}{353}, -\frac{75}{353}, \frac{47}{353}, \frac{27}{353}, \frac{124}{353})$ $+ \frac{2}{353}\sqrt{22213}e^2 \otimes e_5 + \frac{3}{353}\sqrt{5954}e^4 \otimes e_6$	{123689, 1269, 1356789, 15679, 2367, 2678, 356, 568}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{102}e^{13}, \frac{2}{15}\sqrt{34}e^{14} + \frac{1}{45}\sqrt{1122}e^{27}$	$(-\frac{2}{45}, -\frac{2}{45}, \frac{1}{5}, -\frac{4}{45}, \frac{1}{5}, \frac{8}{45}, -\frac{4}{45}, \frac{7}{45}, -\frac{2}{15})$ $+ \frac{1}{45}\sqrt{3774}e^5 \otimes e_9$	{12345678, 1234578, 124567, 12457, 134568, 13458, 145, 1456, 23469, 2349, 24689, 2489, 34679, 3479, 46789, 4789}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{407}\sqrt{20951}e^{12}, \frac{7}{407}\sqrt{861}e^{13}, \frac{1}{407}\sqrt{45633}e^{14} + \frac{2}{407}\sqrt{1722}e^{27}$	$(-\frac{73}{407}, \frac{92}{407}, -\frac{30}{407}, \frac{184}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{19}{407}, -\frac{103}{407}, \frac{3}{11})$ $+ \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570}e^4 \otimes e_8$	{125789, 126789, 1589, 1689, 2358, 2368, 3578, 3678}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{14}{527}\sqrt{861}e^{13}, \frac{2}{527}\sqrt{45633}e^{14} + \frac{4}{527}\sqrt{1722}e^{27}$	$(-\frac{146}{527}, \frac{184}{527}, -\frac{60}{527}, \frac{368}{527}, \frac{87}{527}, \frac{87}{527}, \frac{38}{527}, -\frac{206}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^4 \otimes e_8$	{1256789, 125789, 12789, 15689, 1589, 189, 23568, 2358, 238, 35678, 3578, 378}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{128}\sqrt{2445}e^{13}, \frac{1}{128}\sqrt{16626}e^{14} + \frac{1}{64}\sqrt{815}e^{27}$	$(-\frac{15}{128}, \frac{77}{256}, \frac{57}{256}, \frac{77}{128}, -\frac{43}{64}, \frac{21}{128}, \frac{47}{256}, \frac{27}{256}, \frac{31}{64})$ $+ \frac{1}{128}\sqrt{34882}e^4 \otimes e_5$	{12356789, 1235789, 125679, 12579, 135689, 13589, 1569, 159, 235, 2356, 2568, 258, 3567, 357, 5678, 578}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{2579}\sqrt{336990}e^{12}, \frac{12}{2579}\sqrt{239}e^{13}, \frac{2}{2579}\sqrt{19598}e^{14} + \frac{42}{2579}\sqrt{478}e^{27}$	$(\frac{359}{2579}, \frac{136}{2579}, -\frac{597}{2579}, \frac{272}{2579}, \frac{718}{2579}, -\frac{820}{2579}, \frac{495}{2579}, -\frac{238}{2579}, \frac{631}{2579})$ $+ \frac{2}{2579}\sqrt{232786}e^5 \otimes e_8 + \frac{2}{2579}\sqrt{502378}e^2 \otimes e_6 + \frac{36}{2579}\sqrt{1195}e^1 \otimes e_3$	{12489, 146789, 23478, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{1769}\sqrt{8983}e^{12}, \frac{3}{1769}\sqrt{64954}e^{13}, \frac{2}{1769}\sqrt{163767}e^{14} + \frac{2}{1769}\sqrt{35241}e^{27}$	$(\frac{52}{1769}, \frac{4}{29}, -\frac{255}{1769}, \frac{8}{29}, -\frac{639}{1769}, \frac{168}{1769}, \frac{296}{1769}, -\frac{7}{61}, \frac{540}{1769})$ $+ \frac{1}{1769}\sqrt{1115274}e^1 \otimes e_5 + \frac{2}{1769}\sqrt{274327}e^4 \otimes e_8$	{1234, 12346, 13467, 1347, 245679, 24579, 4569, 459}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{109}\sqrt{2109}e^{12}, \frac{1}{109}\sqrt{1073}e^{13}, \frac{1}{109}\sqrt{703}e^{14} + \frac{4}{109}\sqrt{111}e^{27}$	$(\frac{5}{109}, \frac{10}{109}, -\frac{32}{109}, \frac{20}{109}, \frac{29}{109}, -\frac{8}{109}, \frac{15}{109}, -\frac{27}{109}, \frac{25}{109})$ $+ \frac{2}{109}\sqrt{518}e^1 \otimes e_3 + \frac{2}{109}\sqrt{962}e^2 \otimes e_8 + \frac{37}{109}e^5 \otimes e_6$	{145789, 146789, 3458, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{17}{64}e^{12}, \frac{1}{128}\sqrt{2278}e^{13}, \frac{1}{128}\sqrt{1870}e^{14} + \frac{1}{32}\sqrt{51}e^{27}$	$(-\frac{17}{64}, \frac{15}{128}, \frac{15}{64}, \frac{15}{64}, \frac{27}{128}, -\frac{7}{128}, \frac{19}{128}, -\frac{1}{32}, -\frac{1}{32})$ $+ \frac{17}{64}e^5 \otimes e_6 + \frac{1}{128}\sqrt{3230}e^4 \otimes e_8 + \frac{1}{128}\sqrt{3638}e^3 \otimes e_9$	{123457, 123467, 1345, 1346, 2459, 2469, 4579, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{17}{64}e^{12}, \frac{1}{128}\sqrt{2278}e^{13}, \frac{1}{128}\sqrt{1870}e^{14} + \frac{1}{32}\sqrt{51}e^{27}$	$(-\frac{17}{64}, \frac{15}{128}, \frac{15}{64}, \frac{15}{64}, \frac{27}{128}, -\frac{7}{128}, -\frac{19}{128}, -\frac{1}{32}, -\frac{1}{32})$ $+ \frac{17}{64}e^5 \otimes e_6 - \frac{1}{128}\sqrt{3230}e^4 \otimes e_8 + \frac{1}{128}\sqrt{3638}e^3 \otimes e_9$	{123457, 123467, 1345, 1346, 2459, 2469, 4579, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{39}e^{12}, \frac{6}{29}\sqrt{13}e^{13}, \frac{2}{29}\sqrt{65}e^{14} + \frac{4}{29}\sqrt{26}e^{27}$	$(-\frac{6}{29}, 0, \frac{20}{29}, 0, \frac{5}{29}, \frac{5}{29}, -\frac{6}{29}, \frac{14}{29}, -\frac{6}{29})$ $+ \frac{4}{29}\sqrt{78}e^3 \otimes e_9$	{1234567, 123457, 12347, 134, 1345, 13456, 24569, 2459, 249, 45679, 4579, 479}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{39}e^{12}, \frac{1}{7}\sqrt{13}e^{13}, \frac{1}{21}\sqrt{65}e^{14} + \frac{2}{21}\sqrt{26}e^{27}$	$(-\frac{1}{7}, 0, \frac{10}{21}, 0, \frac{3}{7}, -\frac{4}{21}, -\frac{1}{7}, \frac{1}{3}, -\frac{1}{7})$ $+ \frac{13}{21}e^5 \otimes e_6 + \frac{2}{21}\sqrt{78}e^3 \otimes e_9$	{123457, 123467, 1345, 1346, 2459, 2469, 4579, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{138358}e^{12}, \frac{1}{1445}\sqrt{257518}e^{13}, \frac{4}{1445}\sqrt{8606}e^{14} + \frac{1}{1445}\sqrt{285322}e^{27}$	$(-\frac{262}{1445}, \frac{168}{1445}, \frac{99}{1445}, \frac{336}{1445}, \frac{81}{289}, -\frac{232}{1445}, -\frac{94}{1445}, -\frac{163}{1445}, \frac{74}{1445})$ $+ \frac{12}{1445}\sqrt{1655}e^3 \otimes e_6 + \frac{1}{1445}\sqrt{183374}e^5 \otimes e_9 + \frac{4}{1445}\sqrt{28135}e^2 \otimes e_8$	{12349, 146789, 24567, 3458}
931:13	$0, 0, 0, 0, 0, 0, \frac{7}{407}\sqrt{861}e^{12}, \frac{1}{407}\sqrt{20951}e^{13}, \frac{1}{407}\sqrt{45633}e^{14} + \frac{2}{407}\sqrt{1722}e^{27}$	$(\frac{147}{407}, -\frac{18}{407}, -\frac{140}{407}, -\frac{36}{407}, \frac{17}{37}, -\frac{100}{407}, \frac{129}{407}, \frac{7}{407}, \frac{3}{11})$ $+ \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570}e^1 \otimes e_3$	{1245, 1246, 1457, 1467, 234579, 234679, 3459, 3469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{137882}e^{12}, \frac{1}{1445}\sqrt{444718}e^{13}, \frac{4}{1445}\sqrt{18449}e^{14} + \frac{1}{1445}\sqrt{448602}e^{27}$	$(-\frac{142}{1445}, \frac{8}{1445}, -\frac{61}{1445}, \frac{16}{1445}, \frac{768}{1445}, \frac{169}{289}, -\frac{134}{1445}, -\frac{203}{1445}, -\frac{126}{1445}) + \frac{1}{1445}\sqrt{1314734}e^6 \otimes e_9 + \frac{4}{289}\sqrt{2913}e^5 \otimes e_8$	{1234567, 124678, 13456, 1468, 23489, 2459, 34789, 4579}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{215}e^{12}, \frac{1}{151}\sqrt{215}e^{13}, \frac{1}{151}\sqrt{4085}e^{14} + \frac{1}{151}\sqrt{301}e^{27}$	$(\frac{5}{151}, \frac{5}{151}, -\frac{38}{151}, \frac{10}{151}, \frac{58}{151}, \frac{11}{151}, \frac{10}{151}, -\frac{33}{151}, \frac{15}{151}) + \frac{1}{151}\sqrt{3999}e^1 \otimes e_3 + \frac{1}{151}\sqrt{3999}e^4 \otimes e_8 + \frac{1}{151}\sqrt{4042}e^5 \otimes e_9$	{12689, 1289, 16789, 1789, 235678, 23578, 3568, 358}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{215}e^{12}, \frac{1}{151}\sqrt{215}e^{13}, \frac{1}{151}\sqrt{4085}e^{14} + \frac{1}{151}\sqrt{301}e^{27}$	$(\frac{5}{151}, \frac{5}{151}, -\frac{38}{151}, \frac{10}{151}, \frac{58}{151}, \frac{11}{151}, \frac{10}{151}, -\frac{33}{151}, \frac{15}{151}) + \frac{1}{151}\sqrt{3999}e^1 \otimes e_3 - \frac{1}{151}\sqrt{3999}e^4 \otimes e_8 + \frac{1}{151}\sqrt{4042}e^5 \otimes e_9$	{12689, 1289, 16789, 1789, 235678, 23578, 3568, 358}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{539}\sqrt{12815}e^{12}, \frac{2}{539}\sqrt{1398}e^{13}, \frac{2}{539}\sqrt{26795}e^{14} + \frac{2}{539}\sqrt{50794}e^{27}$	$(-\frac{12}{539}, \frac{101}{539}, \frac{93}{539}, \frac{202}{539}, -\frac{365}{539}, \frac{87}{539}, \frac{89}{539}, \frac{81}{539}, \frac{190}{539}) + \frac{4}{539}\sqrt{26329}e^2 \otimes e_5$	{1234689, 123489, 12469, 1249, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{137}\sqrt{205}e^{12}, \frac{6}{137}\sqrt{205}e^{13}, \frac{2}{137}\sqrt{1763}e^{14} + \frac{4}{137}\sqrt{615}e^{27}$	$(-\frac{26}{137}, \frac{32}{137}, -\frac{24}{137}, \frac{64}{137}, \frac{21}{137}, \frac{21}{137}, \frac{6}{137}, -\frac{50}{137}, \frac{38}{137}) + \frac{4}{137}\sqrt{1189}e^2 \otimes e_8$	{1234569, 123459, 12349, 1456789, 145789, 14789, 24567, 2457, 247, 34568, 3458, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{2}{181}\sqrt{1073}e^{13}, \frac{2}{181}\sqrt{703}e^{14} + \frac{8}{181}\sqrt{111}e^{27}$	$(\frac{10}{181}, \frac{20}{181}, -\frac{64}{181}, \frac{40}{181}, \frac{21}{181}, \frac{21}{181}, \frac{30}{181}, -\frac{54}{181}, \frac{50}{181}) + \frac{4}{181}\sqrt{518}e^1 \otimes e_3 + \frac{4}{181}\sqrt{962}e^2 \otimes e_8$	{1456789, 145789, 14789, 34568, 3458, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12}, \frac{6}{131}\sqrt{74}e^{13}, \frac{2}{131}\sqrt{851}e^{14} + \frac{12}{131}\sqrt{37}e^{27}$	$(-\frac{10}{131}, \frac{19}{131}, -\frac{3}{131}, \frac{38}{131}, \frac{61}{131}, -\frac{55}{131}, \frac{9}{131}, -\frac{13}{131}, \frac{28}{131}) + \frac{2}{131}\sqrt{1702}e^5 \otimes e_8 + \frac{2}{131}\sqrt{2590}e^2 \otimes e_6$	{123459, 12489, 1345679, 146789, 23478, 2457, 3468, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{12}, \frac{1}{35}\sqrt{182}e^{13}, \frac{2}{35}\sqrt{26}e^{14} + \frac{13}{35}\sqrt{2}e^{27}$	$(-\frac{6}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{8}{35}, \frac{3}{35}, \frac{4}{35}, -\frac{2}{35}, -\frac{9}{35}, \frac{2}{35}) + \frac{1}{35}\sqrt{286}e^5 \otimes e_9 + \frac{2}{35}\sqrt{130}e^2 \otimes e_8$	{123469, 12349, 146789, 14789, 24567, 2457, 34568, 3458}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{137882}e^{12}, \frac{1}{1445}\sqrt{444718}e^{13}, \frac{4}{1445}\sqrt{18449}e^{14} + \frac{1}{1445}\sqrt{448602}e^{27}$	$(-\frac{142}{1445}, \frac{8}{1445}, \frac{539}{1445}, \frac{16}{1445}, \frac{169}{289}, \frac{432}{1445}, -\frac{134}{1445}, \frac{397}{1445}, -\frac{126}{1445}) + \frac{1}{1445}\sqrt{1314734}e^5 \otimes e_9 + \frac{4}{289}\sqrt{2913}e^3 \otimes e_6$	{123457, 1245678, 1345, 14568, 23489, 2469, 34789, 4679}
931:13	$0, 0, 0, 0, 0, 0, \frac{5}{144}\sqrt{57}e^{12}, \frac{5}{144}\sqrt{57}e^{13}, \frac{5}{48}\sqrt{34}e^{14} + \frac{5}{72}\sqrt{15}e^{27}$	$(-\frac{19}{144}, \frac{25}{288}, \frac{5}{32}, \frac{25}{144}, \frac{9}{16}, -\frac{25}{72}, -\frac{13}{288}, \frac{7}{288}, \frac{1}{24}) + \frac{5}{48}\sqrt{42}e^4 \otimes e_6 + \frac{5}{72}\sqrt{102}e^5 \otimes e_9$	{1234578, 12457, 13458, 145, 2349, 2489, 3479, 4789}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{533}e^{12}, \frac{1}{113}\sqrt{2337}e^{13}, \frac{1}{113}\sqrt{41}e^{14} + \frac{6}{113}\sqrt{41}e^{27}$	$(\frac{13}{113}, -\frac{14}{113}, \frac{26}{113}, -\frac{28}{113}, \frac{31}{113}, -\frac{10}{113}, -\frac{1}{113}, \frac{39}{113}, -\frac{15}{113}) + \frac{2}{113}\sqrt{779}e^1 \otimes e_4 + \frac{2}{113}\sqrt{902}e^3 \otimes e_9 + \frac{4}{113}e^5 \otimes e_6$	{12589, 12689, 15789, 16789}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{781}\sqrt{4321}e^{12}, \frac{8}{781}\sqrt{2001}e^{13}, \frac{56}{781}\sqrt{29}e^{14} + \frac{4}{781}\sqrt{6989}e^{27}$	$(-\frac{151}{781}, \frac{137}{781}, \frac{56}{781}, \frac{274}{781}, -\frac{16}{71}, \frac{78}{781}, -\frac{14}{781}, -\frac{95}{781}, \frac{123}{781}) + \frac{4}{781}\sqrt{13021}e^2 \otimes e_8 + \frac{4}{781}\sqrt{7366}e^3 \otimes e_5$	{123469, 12349, 1456789, 145789, 24567, 2457, 3468, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{533}e^{12}, \frac{2}{185}\sqrt{2337}e^{13}, \frac{2}{185}\sqrt{41}e^{14} + \frac{12}{185}\sqrt{41}e^{27}$	$(\frac{26}{185}, -\frac{28}{185}, \frac{52}{185}, -\frac{56}{185}, \frac{21}{185}, \frac{21}{185}, -\frac{2}{185}, \frac{78}{185}, -\frac{6}{37}) + \frac{4}{185}\sqrt{779}e^1 \otimes e_4 + \frac{4}{185}\sqrt{902}e^3 \otimes e_9$	{125689, 12589, 1289, 156789, 15789, 1789}
931:13	$0, 0, 0, 0, 0, 0, \frac{34}{111}e^{12}, \frac{1}{111}\sqrt{2278}e^{13}, \frac{1}{111}\sqrt{1870}e^{14} + \frac{4}{111}\sqrt{51}e^{27}$	$(-\frac{34}{111}, \frac{5}{37}, \frac{10}{37}, \frac{10}{37}, \frac{10}{111}, \frac{10}{111}, -\frac{19}{111}, -\frac{4}{111}, -\frac{4}{111}) + \frac{1}{111}\sqrt{3230}e^4 \otimes e_8 + \frac{1}{111}\sqrt{3638}e^3 \otimes e_9$	{1234567, 123457, 12347, 134, 1345, 13456, 24569, 2459, 249, 45679, 4579, 479}
931:13	$0, 0, 0, 0, 0, 0, \frac{34}{111}e^{12}, \frac{1}{111}\sqrt{2278}e^{13}, \frac{1}{111}\sqrt{1870}e^{14} + \frac{4}{111}\sqrt{51}e^{27}$	$(-\frac{34}{111}, \frac{5}{37}, \frac{10}{37}, \frac{10}{37}, \frac{10}{111}, \frac{10}{111}, -\frac{19}{111}, -\frac{4}{111}, -\frac{4}{111}) - \frac{1}{111}\sqrt{3230}e^4 \otimes e_8 + \frac{1}{111}\sqrt{3638}e^3 \otimes e_9$	{1234567, 123457, 12347, 134, 1345, 13456, 24569, 2459, 249, 45679, 4579, 479}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{210}e^{12}, \frac{1}{49}\sqrt{714}e^{13}, \frac{3}{49}\sqrt{14}e^{14} + \frac{3}{49}\sqrt{42}e^{27}$	$(-\frac{10}{49}, \frac{1}{49}, \frac{13}{49}, \frac{2}{49}, \frac{24}{49}, \frac{5}{49}, -\frac{9}{49}, \frac{3}{49}, -\frac{8}{49}) + \frac{1}{49}\sqrt{798}e^5 \otimes e_8 + \frac{5}{49}\sqrt{42}e^3 \otimes e_9$	{1234567, 123457, 1345, 13456, 24569, 2459, 45679, 4579}
931:13	$0, 0, 0, 0, 0, 0, \frac{18}{3161}\sqrt{1978}e^{12}, \frac{6}{3161}\sqrt{52302}e^{13}, \frac{18}{3161}\sqrt{943}e^{14} + \frac{6}{3161}\sqrt{26565}e^{27}$	$(\frac{516}{3161}, -\frac{363}{3161}, \frac{18}{109}, -\frac{726}{3161}, \frac{1032}{3161}, -\frac{720}{3161}, \frac{153}{3161}, \frac{1038}{3161}, -\frac{210}{3161}) + \frac{24}{3161}\sqrt{3243}e^5 \otimes e_9 + \frac{60}{3161}\sqrt{690}e^3 \otimes e_6 + \frac{6}{3161}\sqrt{77901}e^1 \otimes e_4$	{234578, 24567, 3458, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:13	$0, 0, 0, 0, 0, 0, \frac{3}{407}\sqrt{781}e^{12}, \frac{9}{407}\sqrt{213}e^{13}, \frac{1}{407}\sqrt{6035}e^{14} + \frac{2}{407}\sqrt{4899}e^{27}$	$(-\frac{91}{407}, \frac{40}{407}, \frac{60}{407}, \frac{80}{407}, \frac{73}{407}, \frac{2}{407}, -\frac{51}{407}, -\frac{31}{407}, -\frac{1}{37})$ $+ \frac{12}{407}\sqrt{142}e^3 \otimes e_9 + \frac{2}{407}\sqrt{6745}e^2 \otimes e_8 + \frac{71}{407}e^5 \otimes e_6$	{145789, 146789, 3458, 3468}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1401}\sqrt{550910}e^{12}, \frac{2}{1401}\sqrt{32807}e^{13},$ $\frac{4}{1401}\sqrt{3095}e^{14} + \frac{2}{1401}\sqrt{90374}e^{27}$	$(\frac{212}{1401}, \frac{33}{467}, \frac{52}{1401}, \frac{66}{467}, -\frac{407}{1401}, -\frac{520}{1401}, \frac{311}{1401}, \frac{88}{467}, \frac{410}{1401})$ $+ \frac{1}{1401}\sqrt{699470}e^1 \otimes e_5 + \frac{2}{1401}\sqrt{209841}e^2 \otimes e_6$	{12349, 12489, 134679, 146789, 234578, 2457, 34568, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{10}{727}\sqrt{402}e^{12}, \frac{10}{727}\sqrt{402}e^{13},$ $\frac{4}{727}\sqrt{335}e^{14} + \frac{12}{727}\sqrt{335}e^{27}$	$(-\frac{7}{727}, \frac{43}{727}, -\frac{84}{727}, \frac{86}{727}, \frac{213}{727}, -\frac{141}{727}, \frac{36}{727}, -\frac{91}{727}, \frac{79}{727})$ $+ \frac{14}{727}\sqrt{201}e^5 \otimes e_9 + \frac{2}{727}\sqrt{20569}e^2 \otimes e_8 + \frac{6}{727}\sqrt{1541}e^1 \otimes e_6$	{12349, 14789, 24567, 34568}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{743}\sqrt{781}e^{12}, \frac{18}{743}\sqrt{213}e^{13},$ $\frac{2}{743}\sqrt{6035}e^{14} + \frac{4}{743}\sqrt{4899}e^{27}$	$(-\frac{182}{743}, \frac{80}{743}, \frac{120}{743}, \frac{160}{743}, \frac{75}{743}, \frac{75}{743}, -\frac{102}{743}, -\frac{62}{743}, -\frac{22}{743})$ $+ \frac{24}{743}\sqrt{142}e^3 \otimes e_9 + \frac{4}{743}\sqrt{6745}e^2 \otimes e_8$	{1456789, 145789, 14789, 34568, 3458, 348}
931:13	$0, 0, 0, 0, 0, 0, \frac{4}{411}\sqrt{749}e^{12}, \frac{4}{411}\sqrt{749}e^{13}, \frac{16}{411}\sqrt{214}e^{14} + \frac{2}{411}\sqrt{3103}e^{27}$	$(\frac{56}{411}, \frac{14}{137}, \frac{13}{411}, \frac{28}{137}, -\frac{158}{411}, -\frac{130}{411}, \frac{98}{411}, \frac{23}{137}, \frac{140}{411})$ $+ \frac{2}{137}\sqrt{2033}e^4 \otimes e_6 + \frac{2}{411}\sqrt{21293}e^1 \otimes e_5$	{1234, 1248, 1347, 1478, 2345789, 24579, 34589, 459}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{1411}\sqrt{155595}e^{12}, \frac{16}{1411}\sqrt{615}e^{13},$ $\frac{3}{1411}\sqrt{2870}e^{14} + \frac{3}{1411}\sqrt{37310}e^{27}$	$(\frac{315}{1411}, \frac{61}{1411}, \frac{300}{1411}, \frac{122}{1411}, -\frac{554}{1411}, \frac{143}{1411}, \frac{376}{1411}, \frac{15}{1411}, \frac{437}{1411})$ $+ \frac{1}{1411}\sqrt{702330}e^1 \otimes e_3 + \frac{41}{1411}\sqrt{510}e^2 \otimes e_5$	{1269, 129, 15679, 1579, 2367, 237, 35, 356}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{2}{41}\sqrt{35}e^{13}, \frac{6}{41}\sqrt{7}e^{14} + \frac{2}{41}\sqrt{77}e^{27}$	$(\frac{10}{41}, -\frac{2}{41}, -\frac{1}{41}, -\frac{4}{41}, -\frac{16}{41}, \frac{4}{41}, \frac{8}{41}, \frac{9}{41}, \frac{6}{41})$ $+ \frac{2}{41}\sqrt{119}e^1 \otimes e_4 + \frac{4}{41}\sqrt{35}e^2 \otimes e_5$	{234678, 23478, 2467, 247, 34568, 3458, 45, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{6322}e^{12}, \frac{10}{441}\sqrt{654}e^{13},$ $\frac{2}{441}\sqrt{7303}e^{14} + \frac{2}{441}\sqrt{4033}e^{27}$	$(\frac{116}{441}, -\frac{17}{147}, -\frac{106}{441}, -\frac{34}{147}, \frac{76}{441}, \frac{44}{147}, \frac{65}{441}, \frac{10}{441}, \frac{2}{63})$ $+ \frac{2}{441}\sqrt{23217}e^1 \otimes e_4 + \frac{4}{441}\sqrt{5014}e^5 \otimes e_8$	{234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{159}e^{13}, \frac{1}{33}\sqrt{53}e^{14} + \frac{2}{33}\sqrt{53}e^{27}$	$(\frac{1}{11}, \frac{1}{11}, \frac{5}{33}, \frac{2}{11}, 1, -\frac{20}{33}, \frac{2}{11}, \frac{8}{33}, \frac{3}{11})$ $+ \frac{53}{33}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 13579, 13679, 15789, 16789, 23578, 23678, 257, 267, 358, 368, 5, 6}
931:13	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{6}{17}\sqrt{3}e^{14} + \frac{6}{17}\sqrt{2}e^{27}$	$(\frac{10}{17}, -\frac{4}{17}, -\frac{2}{17}, -\frac{8}{17}, \frac{3}{17}, \frac{3}{17}, \frac{6}{17}, \frac{8}{17}, \frac{2}{17})$ $+ \frac{6}{17}\sqrt{14}e^1 \otimes e_4$	{2345678, 234578, 23478, 24567, 2457, 247, 34568, 3458, 348, 4, 45, 456}
931:13	$0, 0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{104122}e^{12}, \frac{10}{1457}\sqrt{659}e^{13},$ $\frac{2}{1457}\sqrt{3295}e^{14} + \frac{1}{1457}\sqrt{644502}e^{27}$	$(-\frac{100}{1457}, \frac{83}{1457}, \frac{206}{1457}, \frac{166}{1457}, \frac{725}{1457}, -\frac{576}{1457}, -\frac{17}{1457}, \frac{106}{1457}, \frac{66}{1457})$ $+ \frac{1}{1457}\sqrt{749942}e^5 \otimes e_9 + \frac{1}{1457}\sqrt{241194}e^2 \otimes e_6$	{123489, 1249, 1346789, 14679, 23457, 24578, 3456, 4568}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{1613}\sqrt{316382}e^{12}, \frac{5}{1613}\sqrt{11242}e^{13},$ $\frac{4}{1613}\sqrt{48983}e^{14} + \frac{1}{1613}\sqrt{203962}e^{27}$	$(\frac{394}{1613}, -\frac{164}{1613}, \frac{409}{1613}, -\frac{328}{1613}, \frac{869}{1613}, \frac{160}{1613}, \frac{230}{1613}, -\frac{15}{1613}, \frac{66}{1613})$ $+ \frac{1}{1613}\sqrt{1138654}e^5 \otimes e_9 + \frac{4}{1613}\sqrt{74679}e^1 \otimes e_3$	{1269, 129, 1679, 179, 23567, 2357, 35, 356}
931:13	$0, 0, 0, 0, 0, 0, \frac{1}{689}\sqrt{1974}e^{12}, \frac{1}{689}\sqrt{57810}e^{13},$ $\frac{9}{689}\sqrt{282}e^{14} + \frac{15}{689}\sqrt{94}e^{27}$	$(-\frac{14}{689}, -\frac{1}{53}, \frac{101}{689}, -\frac{2}{53}, \frac{228}{689}, -\frac{155}{689}, -\frac{27}{689}, \frac{87}{689}, -\frac{40}{689})$ $+ \frac{1}{689}\sqrt{48786}e^5 \otimes e_8 + \frac{1}{689}\sqrt{70782}e^3 \otimes e_9 + \frac{4}{689}\sqrt{1645}e^1 \otimes e_6$	{123457, 1345, 24569, 45679}
931:13	$0, 0, 0, 0, 0, 0, \frac{198}{1673}\sqrt{6}e^{12}, \frac{99}{1673}\sqrt{86}e^{13},$ $\frac{18}{1673}\sqrt{671}e^{14} + \frac{18}{1673}\sqrt{110}e^{27}$	$(\frac{264}{1673}, \frac{30}{1673}, \frac{391}{1673}, \frac{60}{1673}, -\frac{627}{1673}, -\frac{500}{1673}, \frac{42}{239}, \frac{655}{1673}, \frac{324}{1673})$ $+ \frac{198}{1673}\sqrt{31}e^3 \otimes e_6 + \frac{9}{1673}\sqrt{17798}e^1 \otimes e_5$	{1239, 12689, 1379, 16789, 23578, 2567, 358, 56}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{1}{38}\sqrt{517}e^{17} + \frac{1}{38}\sqrt{470}e^{24}$	$(-\frac{5}{19}, \frac{27}{38}, \frac{23}{76}, -\frac{10}{19}, \frac{13}{76}, \frac{13}{76}, \frac{17}{38}, \frac{3}{76}, \frac{7}{38})$ $+ \frac{3}{38}\sqrt{329}e^2 \otimes e_4$	{1345678, 134578, 13478, 14567, 1457, 147, 34, 345, 3456, 4568, 458, 48}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{13}e^{12}, \frac{1}{13}\sqrt{22}e^{13}, \frac{1}{13}\sqrt{10}e^{17} + \frac{2}{13}\sqrt{5}e^{24}$	$(\frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{3}{13}, -\frac{3}{13}, 0, 0, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{15}e^3 \otimes e_6 + \frac{3}{13}e^5 \otimes e_9 + \frac{5}{13}e^4 \otimes e_8$	{126789, 1568, 2389, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{14}{215}\sqrt{6}e^{12}, \frac{2}{215}\sqrt{1554}e^{13}, \frac{14}{215}\sqrt{6}e^{17} + \frac{2}{215}\sqrt{1554}e^{24}$	$(-\frac{28}{215}, \frac{46}{215}, \frac{32}{215}, -\frac{56}{215}, \frac{39}{215}, -\frac{3}{215}, \frac{18}{215}, \frac{4}{215}, -\frac{2}{43})$ $+ \frac{42}{215}e^5 \otimes e_6 + \frac{4}{215}\sqrt{462}e^2 \otimes e_8 + \frac{4}{215}\sqrt{462}e^3 \otimes e_9$	{259, 269, 3578, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{4334e^{12}}, \frac{1}{313}\sqrt{21670e^{13}},$ $\frac{1}{313}\sqrt{13002e^{17}} + \frac{1}{313}\sqrt{21670e^{24}}$	$(-\frac{60}{313}, \frac{77}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{39}{313}, \frac{17}{313}, \frac{94}{313}, -\frac{43}{313})$ $+ \frac{2}{313}\sqrt{16745e^3} \otimes e_9 + \frac{4}{313}\sqrt{2561e^2} \otimes e_4$	{125689, 12589, 1289, 25679, 2579, 279}
931:14	$0, 0, 0, 0, 0, 0, \frac{4}{101}\sqrt{102e^{12}}, \frac{1}{101}\sqrt{2346e^{13}}, \frac{4}{101}\sqrt{102e^{17}} + \frac{1}{101}\sqrt{714e^{24}}$	$(\frac{9}{101}, \frac{2}{101}, -\frac{12}{101}, \frac{18}{101}, \frac{48}{101}, -\frac{42}{101}, \frac{11}{101}, -\frac{3}{101}, \frac{20}{101})$ $+ \frac{1}{101}\sqrt{3774e^5} \otimes e_8 + \frac{1}{101}\sqrt{5406e^1} \otimes e_6$	{123459, 12489, 13457, 1478, 2346789, 245679, 3468, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{10}{631}\sqrt{715e^{12}}, \frac{2}{631}\sqrt{2717e^{13}},$ $\frac{2}{631}\sqrt{29458e^{17}} + \frac{2}{631}\sqrt{858e^{24}}$	$(\frac{38}{631}, -\frac{49}{631}, \frac{51}{631}, \frac{76}{631}, \frac{313}{631}, -\frac{248}{631}, -\frac{11}{631}, \frac{89}{631}, \frac{27}{631})$ $+ \frac{18}{631}\sqrt{429e^5} \otimes e_9 + \frac{2}{631}\sqrt{45474e^1} \otimes e_6$	{12349, 12489, 13457, 14578, 2346789, 24679, 34568, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{7}{97}\sqrt{6e^{12}}, \frac{1}{97}\sqrt{1554e^{13}}, \frac{7}{97}\sqrt{6e^{17}} + \frac{1}{97}\sqrt{1554e^{24}}$	$(-\frac{14}{97}, \frac{23}{97}, \frac{16}{97}, -\frac{28}{97}, \frac{9}{97}, \frac{9}{97}, \frac{9}{97}, \frac{2}{97}, -\frac{5}{97})$ $+ \frac{2}{97}\sqrt{462e^2} \otimes e_8 + \frac{2}{97}\sqrt{462e^3} \otimes e_9$	{2569, 259, 29, 35678, 3578, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{4890e^{12}}, \frac{1}{247}\sqrt{15322e^{13}},$ $\frac{1}{247}\sqrt{7498e^{17}} + \frac{10}{247}\sqrt{163e^{24}}$	$(-\frac{11}{247}, \frac{77}{247}, -\frac{1}{13}, -\frac{22}{247}, \frac{7}{13}, -\frac{86}{247}, \frac{66}{247}, -\frac{30}{247}, \frac{55}{247})$ $+ \frac{1}{247}\sqrt{34230e^5} \otimes e_8 + \frac{2}{247}\sqrt{9291e^2} \otimes e_6$	{12345, 1248, 1345679, 146789, 23478, 2457, 34689, 4569}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{40774e^{12}}, \frac{1}{1475}\sqrt{662302e^{13}},$ $\frac{1}{1475}\sqrt{320682e^{17}} + \frac{1}{1475}\sqrt{450718e^{24}}$	$(-\frac{136}{1475}, \frac{527}{1475}, \frac{112}{1475}, -\frac{272}{1475}, -\frac{439}{1475}, \frac{137}{1475}, \frac{391}{1475}, -\frac{24}{1475}, \frac{51}{295})$ $+ \frac{24}{1475}\sqrt{1102e^3} \otimes e_5 + \frac{2}{1475}\sqrt{209931e^2} \otimes e_8$	{123679, 12379, 1568, 158, 2569, 259, 3678, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{470e^{12}}, \frac{2}{19}\sqrt{94e^{13}}, \frac{1}{38}\sqrt{470e^{17}} + \frac{1}{38}\sqrt{517e^{24}}$	$(\frac{1}{76}, \frac{3}{19}, \frac{11}{19}, \frac{1}{38}, -\frac{25}{38}, \frac{13}{76}, \frac{13}{76}, \frac{45}{76}, \frac{7}{38})$ $+ \frac{1}{38}\sqrt{329e^3} \otimes e_5$	{123679, 12379, 1256789, 125789, 13, 136, 1568, 158, 23689, 2389, 2569, 259, 3678, 378, 567, 57}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{2717e^{12}}, \frac{10}{631}\sqrt{715e^{13}},$ $\frac{2}{631}\sqrt{858e^{17}} + \frac{2}{631}\sqrt{29458e^{24}}$	$(-\frac{68}{631}, \frac{163}{631}, -\frac{55}{631}, -\frac{136}{631}, \frac{313}{631}, \frac{70}{631}, \frac{95}{631}, -\frac{123}{631}, \frac{27}{631})$ $+ \frac{18}{631}\sqrt{429e^5} \otimes e_9 + \frac{2}{631}\sqrt{45474e^2} \otimes e_8$	{12345, 123456, 146789, 14789, 24567, 2457, 34689, 3489}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{858e^{12}}, \frac{10}{631}\sqrt{715e^{13}},$ $\frac{2}{631}\sqrt{2717e^{17}} + \frac{2}{631}\sqrt{29458e^{24}}$	$(-\frac{68}{631}, \frac{113}{631}, \frac{263}{631}, -\frac{136}{631}, -\frac{173}{631}, \frac{70}{631}, \frac{45}{631}, \frac{195}{631}, -\frac{23}{631})$ $+ \frac{18}{631}\sqrt{429e^2} \otimes e_5 + \frac{2}{631}\sqrt{45474e^3} \otimes e_9$	{123467, 12347, 145689, 14589, 23468, 2348, 45679, 4579}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{55}\sqrt{21e^{12}}, \frac{16}{55}\sqrt{2e^{13}}, \frac{8}{55}\sqrt{21e^{17}} + \frac{16}{55}\sqrt{3e^{24}}$	$(\frac{9}{55}, -\frac{3}{55}, -\frac{23}{55}, \frac{18}{55}, \frac{18}{55}, \frac{6}{55}, \frac{6}{55}, -\frac{14}{55}, \frac{3}{11})$ $+ \frac{16}{55}\sqrt{3e^5} \otimes e_8 + \frac{8}{55}\sqrt{37e^1} \otimes e_3$	{124569, 12459, 14567, 1457, 2345679, 234579, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{82e^{12}}, \frac{2}{51}\sqrt{82e^{13}}, \frac{2}{51}\sqrt{82e^{17}} + \frac{2}{51}\sqrt{82e^{24}}$	$(\frac{4}{51}, \frac{2}{17}, \frac{8}{51}, \frac{8}{51}, 1, -\frac{31}{51}, \frac{10}{51}, \frac{4}{17}, \frac{14}{51})$ $+ \frac{82}{51}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 1357, 1367, 1578, 1678, 235789, 236789, 2579, 2679, 358, 368, 5, 6}
931:14	$0, 0, 0, 0, 0, 0, \frac{18}{509}\sqrt{106e^{12}}, \frac{8}{509}\sqrt{318e^{13}}, \frac{18}{509}\sqrt{106e^{17}} + \frac{2}{509}\sqrt{530e^{24}}$	$(\frac{23}{509}, \frac{13}{509}, -\frac{83}{509}, \frac{46}{509}, \frac{165}{509}, -\frac{93}{509}, \frac{36}{509}, -\frac{60}{509}, \frac{59}{509})$ $+ \frac{2}{509}\sqrt{11395e^1} \otimes e_3 + \frac{2}{509}\sqrt{6837e^2} \otimes e_6 + \frac{2}{509}\sqrt{6837e^5} \otimes e_9$	{1249, 14567, 23479, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{3}{1363}\sqrt{930e^{12}}, \frac{3}{1363}\sqrt{25358e^{13}},$ $\frac{3}{1363}\sqrt{9362e^{17}} + \frac{3}{1363}\sqrt{9734e^{24}}$	$(-\frac{24}{1363}, -\frac{33}{1363}, \frac{198}{1363}, -\frac{48}{1363}, \frac{453}{1363}, -\frac{303}{1363}, -\frac{57}{1363}, \frac{6}{47}, -\frac{81}{1363})$ $+ \frac{12}{1363}\sqrt{1333e^5} \otimes e_8 + \frac{6}{1363}\sqrt{6386e^1} \otimes e_6 + \frac{6}{1363}\sqrt{7719e^3} \otimes e_9$	{123457, 1489, 23468, 45679}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{1531}\sqrt{112922e^{12}}, \frac{4}{1531}\sqrt{16637e^{13}},$ $\frac{2}{1531}\sqrt{155890e^{17}} + \frac{4}{1531}\sqrt{3930e^{24}}$	$(\frac{132}{1531}, -\frac{167}{1531}, -\frac{392}{1531}, \frac{264}{1531}, \frac{264}{1531}, \frac{621}{1531}, -\frac{35}{1531}, -\frac{260}{1531}, \frac{97}{1531})$ $+ \frac{10}{1531}\sqrt{8122e^1} \otimes e_3 + \frac{4}{1531}\sqrt{32226e^6} \otimes e_9 + \frac{6}{1531}\sqrt{3930e^5} \otimes e_8$	{12459, 14567, 234579, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{2010e^{12}}, \frac{1}{79}\sqrt{3886e^{13}}, \frac{1}{79}\sqrt{938e^{17}} + \frac{1}{79}\sqrt{3886e^{24}}$	$(-\frac{8}{79}, -\frac{1}{79}, \frac{50}{79}, -\frac{16}{79}, \frac{13}{79}, \frac{13}{79}, -\frac{9}{79}, \frac{42}{79}, -\frac{17}{79})$ $+ \frac{2}{79}\sqrt{2211e^3} \otimes e_9$	{1234567, 123457, 12347, 145689, 14589, 1489, 234568, 23458, 2348, 45679, 4579, 479}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{320682e^{12}}, \frac{1}{1475}\sqrt{662302e^{13}},$ $\frac{1}{1475}\sqrt{40774e^{17}} + \frac{1}{1475}\sqrt{450718e^{24}}$	$(-\frac{136}{1475}, \frac{19}{1475}, \frac{298}{1475}, -\frac{272}{1475}, \frac{713}{1475}, \frac{137}{1475}, -\frac{117}{1475}, \frac{162}{1475}, -\frac{253}{1475})$ $+ \frac{24}{1475}\sqrt{1102e^5} \otimes e_8 + \frac{2}{1475}\sqrt{209931e^3} \otimes e_9$	{126789, 12789, 135, 1356, 2569, 259, 3678, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{106}{509}e^{12}, \frac{2}{509}\sqrt{6307e^{13}}, \frac{106}{509}e^{17} + \frac{2}{509}\sqrt{10865e^{24}}$	$(\frac{23}{509}, \frac{13}{509}, -\frac{83}{509}, \frac{46}{509}, \frac{165}{509}, -\frac{93}{509}, \frac{36}{509}, -\frac{60}{509}, \frac{59}{509})$ $+ \frac{2}{509}\sqrt{11395e^4} \otimes e_8 + \frac{2}{509}\sqrt{6837e^2} \otimes e_6 + \frac{2}{509}\sqrt{6837e^5} \otimes e_9$	{12789, 1568, 2389, 35678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:14	$0, 0, 0, 0, 0, 0, \frac{32}{49}e^{12}, \frac{24}{49}\sqrt{3}e^{13}, \frac{32}{49}e^{17} + \frac{24}{49}\sqrt{3}e^{24}$	$(\frac{11}{49}, -\frac{5}{49}, -\frac{3}{7}, \frac{22}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{8}{49}\sqrt{43}e^4 \otimes e_8$	{1256789, 125789, 12789, 1568, 158, 18, 235689, 23589, 2389, 35678, 3578, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{3}{307}\sqrt{935}e^{17} + \frac{3}{307}\sqrt{935}e^{24}$	$(-\frac{87}{614}, \frac{66}{307}, \frac{187}{614}, -\frac{87}{307}, \frac{132}{307}, -\frac{119}{614}, \frac{45}{307}, -\frac{21}{307})$ $+ \frac{12}{307}\sqrt{221}e^5 \otimes e_9 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4 + \frac{15}{307}\sqrt{119}e^3 \otimes e_6$	{1239, 12689, 23789, 2679}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{470}e^{12}, \frac{2}{19}\sqrt{94}e^{13}, \frac{1}{38}\sqrt{470}e^{17} + \frac{1}{38}\sqrt{517}e^{24}$	$(\frac{1}{76}, \frac{3}{19}, -\frac{1}{4}, \frac{1}{38}, \frac{1}{76}, \frac{13}{76}, -\frac{9}{38}, \frac{7}{38})$ $+ \frac{3}{38}\sqrt{329}e^5 \otimes e_8$	{1235679, 123579, 126789, 12789, 135, 1356, 168, 18, 23689, 2389, 2569, 259, 3678, 378, 567, 57}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{4334}e^{12}, \frac{2}{823}\sqrt{21670}e^{13},$ $\frac{2}{823}\sqrt{13002}e^{17} + \frac{2}{823}\sqrt{21670}e^{24}$	$(-\frac{120}{823}, \frac{154}{823}, \frac{308}{823}, -\frac{240}{823}, \frac{275}{823}, -\frac{119}{823}, \frac{34}{823}, \frac{188}{823}, -\frac{86}{823})$ $+ \frac{394}{823}e^5 \otimes e_6 + \frac{4}{823}\sqrt{16745}e^3 \otimes e_9 + \frac{8}{823}\sqrt{2561}e^2 \otimes e_4$	{12589, 12689, 2579, 2679}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{12}, \frac{3}{31}\sqrt{38}e^{13}, \frac{1}{31}\sqrt{190}e^{17} + \frac{3}{31}\sqrt{38}e^{24}$	$(\frac{4}{31}, -\frac{1}{31}, \frac{8}{31}, \frac{8}{31}, -\frac{11}{31}, -\frac{11}{31}, \frac{3}{31}, \frac{12}{31}, \frac{7}{31})$ $+ \frac{2}{31}\sqrt{133}e^3 \otimes e_5 + \frac{2}{31}\sqrt{133}e^4 \otimes e_6$	{123679, 1256789, 136, 1568, 23689, 2569, 3678, 567}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{85}\sqrt{71}e^{12}, \frac{1}{170}\sqrt{7810}e^{13}, \frac{1}{170}\sqrt{2627}e^{17} + \frac{1}{170}\sqrt{1846}e^{24}$	$(-\frac{8}{85}, \frac{39}{170}, \frac{41}{340}, -\frac{16}{85}, \frac{151}{340}, -\frac{101}{340}, \frac{23}{170}, \frac{9}{340}, \frac{7}{170})$ $+ \frac{3}{170}\sqrt{497}e^2 \otimes e_4 + \frac{1}{170}\sqrt{994}e^3 \otimes e_6 + \frac{3}{170}\sqrt{994}e^5 \otimes e_8$	{123579, 126789, 2389, 2569}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{7498}e^{12}, \frac{1}{247}\sqrt{15322}e^{13},$ $\frac{1}{247}\sqrt{4890}e^{17} + \frac{10}{247}\sqrt{163}e^{24}$	$(-\frac{11}{247}, \frac{1}{247}, -\frac{1}{13}, -\frac{22}{247}, \frac{7}{247}, \frac{142}{247}, -\frac{10}{247}, -\frac{30}{247}, -\frac{21}{247})$ $+ \frac{1}{247}\sqrt{34230}e^5 \otimes e_8 + \frac{2}{247}\sqrt{9291}e^6 \otimes e_9$	{1234567, 124678, 13459, 1489, 23468, 2456, 34789, 4579}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{415}\sqrt{24366}e^{12}, \frac{2}{415}\sqrt{4323}e^{13},$ $\frac{2}{415}\sqrt{9039}e^{17} + \frac{1}{415}\sqrt{262}e^{24}$	$(\frac{49}{415}, -\frac{61}{415}, -\frac{82}{415}, \frac{98}{415}, \frac{168}{415}, -\frac{33}{415}, -\frac{12}{415}, -\frac{33}{415}, \frac{37}{415})$ $+ \frac{1}{415}\sqrt{47422}e^1 \otimes e_3 + \frac{2}{415}\sqrt{4323}e^4 \otimes e_6 + \frac{3}{415}\sqrt{3930}e^5 \otimes e_9$	{1269, 1567, 23679, 356}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{1543}\sqrt{4953}e^{12}, \frac{24}{1543}\sqrt{130}e^{13},$ $\frac{8}{1543}\sqrt{5187}e^{17} + \frac{8}{1543}\sqrt{715}e^{24}$	$(\frac{37}{1543}, \frac{74}{1543}, -\frac{379}{1543}, \frac{74}{1543}, \frac{564}{1543}, \frac{129}{1543}, \frac{111}{1543}, -\frac{342}{1543}, \frac{148}{1543})$ $+ \frac{104}{1543}\sqrt{46}e^1 \otimes e_3 + \frac{8}{1543}\sqrt{4953}e^2 \otimes e_8 + \frac{8}{1543}\sqrt{5655}e^5 \otimes e_9$	{1269, 129, 23679, 2379}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{221}e^{13}, \frac{1}{37}\sqrt{78}e^{17} + \frac{1}{37}\sqrt{78}e^{24}$	$(\frac{1}{74}, \frac{9}{37}, -\frac{9}{74}, \frac{1}{37}, -\frac{25}{74}, \frac{4}{37}, \frac{19}{74}, -\frac{4}{37}, \frac{10}{37})$ $+ \frac{1}{37}\sqrt{429}e^1 \otimes e_5 + \frac{1}{37}\sqrt{429}e^2 \otimes e_8$	{12369, 1239, 1678, 178, 25679, 2579, 3568, 358}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{2}e^{12}, \frac{1}{15}\sqrt{30}e^{13}, \frac{1}{15}\sqrt{6}e^{17} + \frac{1}{15}\sqrt{30}e^{24}$	$(0, -\frac{1}{15}, \frac{2}{15}, 0, \frac{1}{3}, -\frac{1}{5}, -\frac{1}{15}, \frac{2}{15}, -\frac{1}{15})$ $+ \frac{2}{15}\sqrt{6}e^4 \otimes e_6 + \frac{2}{15}\sqrt{6}e^5 \otimes e_8 + \frac{2}{5}e^3 \otimes e_9$	{126789, 1356, 2569, 3678}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{320682}e^{12}, \frac{1}{1475}\sqrt{450718}e^{13},$ $\frac{1}{1475}\sqrt{40774}e^{17} + \frac{1}{1475}\sqrt{662302}e^{24}$	$(\frac{56}{1475}, -\frac{173}{1475}, \frac{98}{295}, \frac{112}{1475}, -\frac{439}{1475}, \frac{137}{1475}, -\frac{117}{1475}, \frac{546}{1475}, -\frac{61}{1475})$ $+ \frac{24}{1475}\sqrt{1102}e^4 \otimes e_5 + \frac{2}{1475}\sqrt{209931}e^3 \otimes e_9$	{1256789, 125789, 135, 1356, 2569, 259, 35678, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{4}{377}\sqrt{1463}e^{12}, \frac{1}{377}\sqrt{33782}e^{13},$ $\frac{3}{377}\sqrt{1330}e^{17} + \frac{2}{377}\sqrt{11305}e^{24}$	$(\frac{3}{29}, -\frac{49}{377}, -\frac{94}{377}, \frac{6}{29}, \frac{162}{377}, \frac{33}{377}, -\frac{10}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{34314}e^5 \otimes e_9 + \frac{1}{377}\sqrt{57190}e^4 \otimes e_8$	{126789, 12789, 1568, 158, 23689, 2389, 35678, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{275}\sqrt{97}e^{12}, \frac{2}{275}\sqrt{4462}e^{13}, \frac{1}{275}\sqrt{291}e^{17} + \frac{1}{25}\sqrt{97}e^{24}$	$(-\frac{69}{550}, \frac{28}{275}, \frac{56}{275}, -\frac{69}{275}, \frac{237}{550}, \frac{24}{275}, -\frac{13}{550}, \frac{43}{550}, -\frac{41}{275})$ $+ \frac{1}{275}\sqrt{6305}e^2 \otimes e_4 + \frac{2}{275}\sqrt{6014}e^3 \otimes e_9 + \frac{3}{275}\sqrt{2037}e^5 \otimes e_8$	{126789, 12789, 2569, 259}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{78}e^{12}, \frac{1}{37}\sqrt{221}e^{13}, \frac{1}{37}\sqrt{221}e^{17} + \frac{1}{37}\sqrt{78}e^{24}$	$(\frac{1}{74}, -\frac{2}{37}, \frac{12}{37}, \frac{1}{37}, -\frac{25}{74}, \frac{4}{37}, -\frac{3}{74}, \frac{25}{74}, -\frac{1}{37})$ $+ \frac{1}{37}\sqrt{429}e^1 \otimes e_5 + \frac{1}{37}\sqrt{429}e^3 \otimes e_9$	{12689, 1289, 1367, 137, 25679, 2579, 3568, 358}
931:14	$0, 0, 0, 0, 0, 0, \frac{32}{65}e^{12}, \frac{24}{65}\sqrt{3}e^{13}, \frac{32}{65}e^{17} + \frac{24}{65}\sqrt{3}e^{24}$	$(\frac{11}{65}, -\frac{1}{13}, -\frac{21}{65}, \frac{22}{65}, \frac{22}{65}, -\frac{2}{13}, \frac{6}{65}, -\frac{2}{13}, \frac{17}{65})$ $+ \frac{32}{65}e^5 \otimes e_6 + \frac{8}{65}\sqrt{43}e^4 \otimes e_8$	{125789, 126789, 158, 168, 23589, 23689, 3578, 3678}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{470}e^{12}, \frac{1}{38}\sqrt{517}e^{13}, \frac{1}{38}\sqrt{470}e^{17} + \frac{2}{19}\sqrt{94}e^{24}$	$(\frac{11}{38}, -\frac{9}{76}, \frac{1}{38}, \frac{11}{38}, -\frac{25}{38}, \frac{13}{76}, \frac{13}{76}, \frac{6}{19}, \frac{35}{76})$ $+ \frac{3}{38}\sqrt{329}e^4 \otimes e_5$	{1235679, 123579, 1256789, 125789, 135, 1356, 1568, 158, 235689, 23589, 2569, 259, 35678, 3578, 567, 57}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{22}e^{12}, \frac{1}{13}\sqrt{13}e^{13}, \frac{2}{13}\sqrt{5}e^{17} + \frac{1}{13}\sqrt{10}e^{24}$	$(-\frac{1}{52}, \frac{3}{26}, -\frac{9}{52}, -\frac{1}{26}, \frac{3}{13}, \frac{3}{52}, \frac{5}{52}, -\frac{5}{26}, \frac{1}{13})$ $+\frac{1}{13}\sqrt{15}e^2 \otimes e_4 + \frac{3}{13}e^5 \otimes e_9 + \frac{5}{13}e^1 \otimes e_3$	{14567, 1457, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{33782}e^{12}, \frac{4}{377}\sqrt{1463}e^{13},$ $\frac{2}{377}\sqrt{11305}e^{17} + \frac{3}{377}\sqrt{1330}e^{24}$	$(\frac{3}{29}, -\frac{49}{377}, -\frac{94}{377}, \frac{6}{29}, \frac{162}{377}, \frac{33}{377}, -\frac{10}{377}, -\frac{55}{377}, \frac{1}{13})$ $+\frac{1}{377}\sqrt{34314}e^5 \otimes e_9 + \frac{1}{377}\sqrt{57190}e^1 \otimes e_3$	{12469, 1249, 14567, 1457, 234679, 23479, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{662302}e^{12}, \frac{1}{1475}\sqrt{40774}e^{13},$ $\frac{1}{1475}\sqrt{450718}e^{17} + \frac{1}{1475}\sqrt{320682}e^{24}$	$(-\frac{74}{1475}, \frac{403}{1475}, \frac{174}{1475}, -\frac{148}{1475}, \frac{25}{1475}, \frac{137}{1475}, \frac{329}{1475}, \frac{4}{1475}, \frac{51}{295})$ $+\frac{24}{1475}\sqrt{1102}e^2 \otimes e_4 + \frac{2}{1475}\sqrt{209931}e^1 \otimes e_5$	{134678, 13478, 1467, 147, 345, 3456, 4568, 458}
931:14	$0, 0, 0, 0, 0, 0, \frac{18}{547}\sqrt{202}e^{12}, \frac{4}{547}\sqrt{505}e^{13}, \frac{12}{547}\sqrt{303}e^{17} + \frac{4}{547}\sqrt{505}e^{24}$	$(\frac{34}{547}, \frac{68}{547}, -\frac{168}{547}, \frac{68}{547}, \frac{149}{547}, -\frac{53}{547}, \frac{102}{547}, -\frac{134}{547}, \frac{136}{547})$ $+\frac{18}{547}\sqrt{202}e^2 \otimes e_8 + \frac{202}{547}e^5 \otimes e_6 + \frac{4}{547}\sqrt{5959}e^1 \otimes e_3$	{12459, 12469, 234579, 234679}
931:14	$0, 0, 0, 0, 0, 0, \frac{4}{101}\sqrt{102}e^{12}, \frac{1}{101}\sqrt{2346}e^{13}, \frac{4}{101}\sqrt{102}e^{17} + \frac{1}{101}\sqrt{714}e^{24}$	$(\frac{9}{101}, \frac{2}{101}, \frac{25}{101}, \frac{18}{101}, -\frac{42}{101}, -\frac{26}{101}, \frac{11}{101}, \frac{34}{101}, \frac{20}{101})$ $+\frac{1}{101}\sqrt{3774}e^3 \otimes e_6 + \frac{1}{101}\sqrt{5406}e^1 \otimes e_5$	{12349, 124689, 1347, 14678, 2345789, 245679, 3458, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{203}\sqrt{39010}e^{12}, \frac{1}{203}\sqrt{5810}e^{13},$ $\frac{1}{203}\sqrt{7553}e^{17} + \frac{3}{406}\sqrt{2407}e^{24}$	$(-\frac{3}{812}, \frac{40}{203}, -\frac{169}{812}, -\frac{3}{406}, -\frac{3}{406}, \frac{51}{812}, \frac{157}{812}, -\frac{43}{203}, \frac{11}{58})$ $+\frac{1}{406}\sqrt{26394}e^2 \otimes e_4 + \frac{1}{406}\sqrt{4731}e^5 \otimes e_8 + \frac{5}{203}\sqrt{415}e^1 \otimes e_3$	{1467, 147, 34, 346}
931:14	$0, 0, 0, 0, 0, 0, \frac{3}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{33782}e^{13},$ $\frac{4}{377}\sqrt{1463}e^{17} + \frac{2}{377}\sqrt{11305}e^{24}$	$(\frac{3}{29}, \frac{37}{377}, -\frac{94}{377}, \frac{6}{29}, -\frac{96}{377}, \frac{33}{377}, \frac{76}{377}, -\frac{55}{377}, \frac{115}{377})$ $+\frac{1}{377}\sqrt{34314}e^2 \otimes e_5 + \frac{1}{377}\sqrt{57190}e^4 \otimes e_8$	{126789, 12789, 1568, 158, 23689, 2389, 35678, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{12}, \frac{2}{631}\sqrt{2717}e^{13},$ $\frac{10}{631}\sqrt{715}e^{17} + \frac{2}{631}\sqrt{858}e^{24}$	$(\frac{38}{631}, \frac{113}{631}, \frac{51}{631}, \frac{76}{631}, -\frac{248}{631}, -\frac{173}{631}, \frac{151}{631}, \frac{89}{631}, \frac{189}{631})$ $+\frac{18}{631}\sqrt{429}e^2 \otimes e_6 + \frac{2}{631}\sqrt{45474}e^1 \otimes e_5$	{12349, 12489, 13467, 14678, 2345789, 24579, 34568, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{481}\sqrt{28078}e^{12}, \frac{1}{481}\sqrt{51106}e^{13},$ $\frac{1}{481}\sqrt{28078}e^{17} + \frac{2}{481}\sqrt{9797}e^{24}$	$(\frac{55}{481}, -\frac{25}{481}, -\frac{46}{481}, \frac{110}{481}, -\frac{147}{481}, \frac{30}{481}, \frac{30}{481}, \frac{9}{481}, \frac{85}{481})$ $+\frac{1}{481}\sqrt{35754}e^3 \otimes e_5 + \frac{2}{481}\sqrt{13837}e^4 \otimes e_8$	{1256789, 125789, 1568, 158, 23689, 2389, 3678, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{15}e^{12}, \frac{4}{49}\sqrt{6}e^{13}, \frac{4}{49}\sqrt{2}e^{17} + \frac{4}{49}\sqrt{6}e^{24}$	$(\frac{2}{49}, -\frac{6}{49}, 0, \frac{4}{49}, \frac{3}{49}, \frac{3}{49}, -\frac{4}{49}, \frac{2}{49}, -\frac{2}{49})$ $+\frac{10}{49}e^4 \otimes e_8 + \frac{2}{49}\sqrt{2}e^3 \otimes e_9$	{1256789, 125789, 12789, 35678, 3578, 378}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13},$ $\frac{1}{313}\sqrt{21670}e^{17} + \frac{1}{313}\sqrt{4334}e^{24}$	$(\frac{66}{313}, -\frac{27}{313}, \frac{6}{313}, \frac{132}{313}, -\frac{131}{313}, -\frac{65}{313}, \frac{39}{313}, \frac{72}{313}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{16745}e^1 \otimes e_5 + \frac{4}{313}\sqrt{2561}e^4 \otimes e_6$	{12369, 12689, 1367, 1678, 2356789, 25679, 3568, 56}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{505}e^{12}, \frac{9}{223}\sqrt{202}e^{13}, \frac{2}{223}\sqrt{505}e^{17} + \frac{6}{223}\sqrt{303}e^{24}$	$(\frac{44}{223}, -\frac{20}{223}, -\frac{57}{223}, \frac{88}{223}, -\frac{57}{223}, \frac{24}{223}, \frac{24}{223}, -\frac{13}{223}, \frac{68}{223})$ $+\frac{2}{223}\sqrt{5959}e^4 \otimes e_8 + \frac{9}{223}\sqrt{202}e^1 \otimes e_5$	{126789, 12789, 168, 18, 235689, 23589, 35678, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{3}e^{12}, \frac{2}{27}\sqrt{15}e^{13}, \frac{2}{27}\sqrt{6}e^{17} + \frac{2}{27}\sqrt{30}e^{24}$	$(0, \frac{1}{9}, -\frac{1}{9}, 0, \frac{1}{3}, -\frac{2}{9}, \frac{1}{9}, -\frac{1}{9}, \frac{1}{9})$ $+\frac{2}{27}\sqrt{21}e^5 \otimes e_9 + \frac{2}{27}\sqrt{30}e^2 \otimes e_8 + \frac{4}{27}\sqrt{6}e^4 \otimes e_6$	{123679, 1568, 269, 35678}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{289}\sqrt{151}e^{12}, \frac{1}{289}\sqrt{3322}e^{13}, \frac{8}{289}\sqrt{151}e^{17} + \frac{5}{289}\sqrt{906}e^{24}$	$(-\frac{22}{289}, \frac{53}{289}, \frac{42}{289}, -\frac{44}{289}, \frac{160}{289}, -\frac{98}{289}, \frac{31}{289}, \frac{20}{289}, \frac{9}{289})$ $+\frac{1}{289}\sqrt{38958}e^2 \otimes e_6 + \frac{1}{289}\sqrt{38958}e^5 \otimes e_9$	{12389, 129, 135678, 1567, 2379, 2789, 356, 568}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{123}\sqrt{94}e^{12}, \frac{2}{123}\sqrt{470}e^{13}, \frac{2}{123}\sqrt{517}e^{17} + \frac{2}{123}\sqrt{470}e^{24}$	$(-\frac{20}{123}, \frac{18}{41}, \frac{23}{123}, -\frac{40}{123}, \frac{20}{41}, -\frac{34}{123}, \frac{34}{123}, \frac{1}{41}, \frac{14}{123})$ $+\frac{2}{41}\sqrt{329}e^2 \otimes e_4 + \frac{94}{123}e^5 \otimes e_6$	{134578, 134678, 1457, 1467, 345, 346, 458, 468}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{374}\sqrt{14578}e^{12}, \frac{1}{374}\sqrt{6895}e^{13},$ $\frac{1}{374}\sqrt{8274}e^{17} + \frac{1}{187}\sqrt{12805}e^{24}$	$(\frac{35}{374}, -\frac{113}{748}, \frac{19}{374}, \frac{35}{187}, \frac{421}{748}, -\frac{127}{374}, -\frac{43}{748}, \frac{27}{187}, \frac{27}{748})$ $+\frac{1}{187}\sqrt{17139}e^5 \otimes e_9 + \frac{1}{374}\sqrt{64419}e^4 \otimes e_6$	{123457, 124578, 1349, 1489, 23458, 245, 34789, 479}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{6}e^{13}, \frac{2}{25}\sqrt{2}e^{17} + \frac{2}{25}\sqrt{6}e^{24}$	$(\frac{1}{25}, -\frac{3}{25}, 0, \frac{2}{25}, \frac{2}{25}, \frac{1}{25}, -\frac{2}{25}, \frac{1}{25}, -\frac{1}{25})$ $+\frac{1}{25}\sqrt{2}e^3 \otimes e_9 + \frac{1}{25}e^5 \otimes e_6 + \frac{1}{5}e^4 \otimes e_8$	{125789, 126789, 3578, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{225}\sqrt{2010}e^{12}, \frac{2}{225}\sqrt{3886}e^{13}, \frac{2}{225}\sqrt{938}e^{17} + \frac{2}{225}\sqrt{3886}e^{24}$	$(-\frac{16}{225}, -\frac{2}{225}, \frac{4}{9}, -\frac{32}{225}, \frac{31}{75}, -\frac{41}{225}, -\frac{2}{25}, \frac{28}{75}, -\frac{34}{225}) + \frac{134}{225}e^5 \otimes e_6 + \frac{4}{225}\sqrt{2211}e^3 \otimes e_9$	{123457, 123467, 14589, 14689, 23458, 23468, 4579, 4679}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{11305}e^{12}, \frac{4}{377}\sqrt{1463}e^{13}, \frac{1}{377}\sqrt{33782}e^{17} + \frac{3}{377}\sqrt{1330}e^{24}$	$(\frac{3}{29}, \frac{37}{377}, -\frac{94}{377}, \frac{6}{29}, -\frac{96}{377}, \frac{33}{377}, \frac{76}{377}, -\frac{55}{377}, \frac{115}{377}) + \frac{1}{377}\sqrt{34314}e^2 \otimes e_5 + \frac{1}{377}\sqrt{57190}e^1 \otimes e_3$	{12469, 1249, 14567, 1457, 234679, 23479, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{12}, \frac{3}{31}\sqrt{38}e^{13}, \frac{1}{31}\sqrt{190}e^{17} + \frac{3}{31}\sqrt{38}e^{24}$	$(\frac{4}{31}, -\frac{1}{31}, -\frac{6}{31}, \frac{8}{31}, \frac{17}{31}, -\frac{11}{31}, \frac{3}{31}, -\frac{2}{31}, \frac{7}{31}) + \frac{2}{31}\sqrt{133}e^4 \otimes e_6 + \frac{2}{31}\sqrt{133}e^5 \otimes e_8$	{1235679, 126789, 1356, 168, 23689, 2569, 3678, 567}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{4890}e^{12}, \frac{1}{247}\sqrt{15322}e^{13}, \frac{1}{247}\sqrt{7498}e^{17} + \frac{10}{247}\sqrt{163}e^{24}$	$(-\frac{11}{247}, \frac{77}{247}, \frac{86}{247}, -\frac{22}{247}, -\frac{86}{247}, -\frac{77}{247}, \frac{66}{247}, \frac{75}{247}, \frac{55}{247}) + \frac{1}{247}\sqrt{34230}e^3 \otimes e_6 + \frac{2}{247}\sqrt{9291}e^2 \otimes e_5$	{1234, 12468, 134579, 1456789, 23478, 2467, 34589, 4569}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{40774}e^{12}, \frac{1}{1475}\sqrt{450718}e^{13}, \frac{1}{1475}\sqrt{320682}e^{17} + \frac{1}{1475}\sqrt{662302}e^{24}$	$(\frac{56}{1475}, \frac{67}{295}, -\frac{272}{1475}, \frac{112}{1475}, -\frac{439}{1475}, \frac{137}{1475}, \frac{391}{1475}, -\frac{216}{1475}, \frac{447}{1475}) + \frac{24}{1475}\sqrt{1102}e^4 \otimes e_5 + \frac{2}{1475}\sqrt{209931}e^2 \otimes e_8$	{1235679, 123579, 1568, 158, 2569, 259, 35678, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{3886}e^{12}, \frac{1}{79}\sqrt{938}e^{13}, \frac{1}{79}\sqrt{3886}e^{17} + \frac{1}{79}\sqrt{2010}e^{24}$	$(\frac{14}{79}, -\frac{1}{79}, \frac{6}{79}, \frac{28}{79}, -\frac{53}{79}, \frac{13}{79}, \frac{13}{79}, \frac{20}{79}, \frac{27}{79}) + \frac{2}{79}\sqrt{2211}e^1 \otimes e_5$	{123469, 12349, 124689, 12489, 13467, 1347, 14678, 1478, 23456789, 2345789, 245679, 24579, 34568, 3458, 45, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{7498}e^{12}, \frac{1}{247}\sqrt{15322}e^{13}, \frac{1}{247}\sqrt{4890}e^{17} + \frac{10}{247}\sqrt{163}e^{24}$	$(-\frac{11}{247}, \frac{1}{247}, \frac{86}{247}, -\frac{22}{247}, \frac{142}{247}, -\frac{77}{247}, -\frac{10}{247}, \frac{75}{247}, -\frac{21}{247}) + \frac{1}{247}\sqrt{34230}e^3 \otimes e_6 + \frac{2}{247}\sqrt{9291}e^5 \otimes e_9$	{123457, 1245678, 1349, 14689, 23458, 2456, 34789, 4679}
931:14	$0, 0, 0, 0, 0, 0, \frac{24}{65}\sqrt{3}e^{12}, \frac{32}{65}e^{13}, \frac{24}{65}\sqrt{3}e^{17} + \frac{32}{65}e^{24}$	$(\frac{11}{65}, -\frac{1}{13}, -\frac{21}{65}, \frac{22}{65}, \frac{22}{65}, -\frac{2}{13}, \frac{6}{65}, -\frac{2}{13}, \frac{17}{65}) + \frac{32}{65}e^5 \otimes e_6 + \frac{8}{65}\sqrt{43}e^1 \otimes e_3$	{12459, 12469, 1457, 1467, 234579, 234679, 345, 346}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{2990}e^{12}, \frac{1}{137}\sqrt{7930}e^{13}, \frac{1}{137}\sqrt{2990}e^{17} + \frac{1}{137}\sqrt{2470}e^{24}$	$(-\frac{4}{137}, \frac{15}{137}, \frac{13}{137}, -\frac{8}{137}, \frac{74}{137}, -\frac{52}{137}, \frac{11}{137}, \frac{9}{137}, \frac{7}{137}) + \frac{3}{137}\sqrt{910}e^3 \otimes e_6 + \frac{3}{137}\sqrt{910}e^5 \otimes e_8$	{123579, 126789, 135, 168, 2389, 2569, 378, 567}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{15322}e^{12}, \frac{1}{247}\sqrt{7498}e^{13}, \frac{10}{247}\sqrt{163}e^{17} + \frac{1}{247}\sqrt{4890}e^{24}$	$(-\frac{46}{247}, \frac{71}{247}, \frac{51}{247}, -\frac{92}{247}, \frac{142}{247}, \frac{28}{247}, \frac{25}{247}, \frac{5}{247}, -\frac{21}{247}) + \frac{1}{247}\sqrt{34230}e^2 \otimes e_4 + \frac{2}{247}\sqrt{9291}e^5 \otimes e_9$	{123689, 12389, 1269, 129, 23679, 2379, 26789, 2789}
931:14	$0, 0, 0, 0, 0, 0, \frac{8}{55}\sqrt{21}e^{12}, \frac{16}{55}\sqrt{3}e^{13}, \frac{8}{55}\sqrt{21}e^{17} + \frac{16}{55}\sqrt{2}e^{24}$	$(\frac{13}{55}, -\frac{7}{55}, -\frac{19}{55}, \frac{26}{55}, -\frac{6}{55}, \frac{6}{55}, \frac{6}{55}, -\frac{6}{55}, \frac{19}{55}) + \frac{16}{55}\sqrt{3}e^4 \otimes e_5 + \frac{8}{55}\sqrt{37}e^1 \otimes e_3$	{12469, 1249, 1467, 147, 234679, 23479, 34, 346}
931:14	$0, 0, 0, 0, 0, 0, \frac{56}{2911}\sqrt{430}e^{12}, \frac{28}{2911}\sqrt{166}e^{13}, \frac{28}{2911}\sqrt{1618}e^{17} + \frac{28}{2911}\sqrt{510}e^{24}$	$(-\frac{166}{2911}, \frac{452}{2911}, \frac{318}{2911}, -\frac{332}{2911}, \frac{904}{2911}, -\frac{950}{2911}, \frac{286}{2911}, \frac{152}{2911}, \frac{120}{2911}) + \frac{28}{2911}\sqrt{1338}e^5 \otimes e_9 + \frac{28}{2911}\sqrt{2370}e^1 \otimes e_6 + \frac{56}{2911}\sqrt{411}e^2 \otimes e_4$	{134578, 1457, 3456, 4568}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{267}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{4}{157}\sqrt{890}e^{17} + \frac{4}{157}\sqrt{890}e^{24}$	$(-\frac{6}{157}, -\frac{9}{157}, \frac{31}{157}, -\frac{12}{157}, \frac{1}{157}, \frac{28}{157}, -\frac{15}{157}, \frac{25}{157}, -\frac{21}{157}) + \frac{2}{157}\sqrt{11481}e^5 \otimes e_9$	{12345678, 1234578, 124567, 12457, 134689, 13489, 1469, 149, 2345, 23456, 24568, 2458, 34679, 3479, 46789, 4789}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{481}\sqrt{51106}e^{12}, \frac{1}{481}\sqrt{28078}e^{13}, \frac{2}{481}\sqrt{9797}e^{17} + \frac{1}{481}\sqrt{28078}e^{24}$	$(-\frac{4}{481}, \frac{93}{481}, -\frac{105}{481}, -\frac{8}{481}, \frac{30}{481}, \frac{30}{481}, \frac{89}{481}, -\frac{109}{481}, \frac{85}{481}) + \frac{1}{481}\sqrt{35754}e^2 \otimes e_4 + \frac{2}{481}\sqrt{13837}e^1 \otimes e_3$	{14567, 1457, 147, 34, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{24}{1543}\sqrt{130}e^{12}, \frac{8}{1543}\sqrt{4953}e^{13}, \frac{8}{1543}\sqrt{715}e^{17} + \frac{8}{1543}\sqrt{5187}e^{24}$	$(\frac{164}{1543}, -\frac{180}{1543}, -\frac{252}{1543}, \frac{328}{1543}, \frac{564}{1543}, -\frac{252}{1543}, -\frac{16}{1543}, -\frac{88}{1543}, \frac{148}{1543}) + \frac{104}{1543}\sqrt{46}e^4 \otimes e_8 + \frac{8}{1543}\sqrt{4953}e^1 \otimes e_6 + \frac{8}{1543}\sqrt{5655}e^5 \otimes e_9$	{123457, 1349, 2456, 4679}
931:14	$0, 0, 0, 0, 0, 0, \frac{3}{674}\sqrt{8970}e^{12}, \frac{15}{337}\sqrt{23}e^{13}, \frac{24}{337}\sqrt{23}e^{17} + \frac{3}{674}\sqrt{4117}e^{24}$	$(-\frac{57}{1348}, \frac{75}{337}, \frac{9}{1348}, -\frac{57}{674}, \frac{183}{674}, -\frac{471}{1348}, \frac{243}{1348}, -\frac{12}{337}, \frac{93}{674}) + \frac{3}{337}\sqrt{3335}e^1 \otimes e_6 + \frac{3}{674}\sqrt{5911}e^5 \otimes e_8 + \frac{3}{674}\sqrt{9246}e^2 \otimes e_4$	{13457, 1478, 3468, 456}
931:14	$0, 0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{3}{307}\sqrt{935}e^{17} + \frac{3}{307}\sqrt{935}e^{24}$	$(-\frac{87}{614}, \frac{66}{307}, \frac{6}{307}, -\frac{87}{307}, \frac{231}{614}, \frac{132}{307}, \frac{45}{614}, -\frac{75}{614}, -\frac{21}{307}) + \frac{12}{307}\sqrt{221}e^6 \otimes e_9 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4 + \frac{15}{307}\sqrt{119}e^5 \otimes e_8$	{12359, 1289, 23789, 2579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:14	$0, 0, 0, 0, 0, 0, \frac{15}{79}\sqrt{2}e^{12}, \frac{15}{79}\sqrt{2}e^{13}, \frac{6}{79}\sqrt{10}e^{17} + \frac{6}{79}\sqrt{10}e^{24}$	$(-\frac{3}{158}, \frac{11}{79}, -\frac{11}{158}, -\frac{3}{79}, \frac{26}{79}, -\frac{39}{158}, \frac{19}{158}, -\frac{7}{79}, \frac{8}{79})$ $+ \frac{3}{79}\sqrt{106}e^1 \otimes e_6 + \frac{3}{79}\sqrt{106}e^2 \otimes e_8 + \frac{6}{79}\sqrt{19}e^5 \otimes e_9$	{1239, 1578, 2679, 3568}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{938}e^{12}, \frac{1}{79}\sqrt{3886}e^{13}, \frac{1}{79}\sqrt{2010}e^{17} + \frac{1}{79}\sqrt{3886}e^{24}$	$(-\frac{8}{79}, \frac{43}{79}, -\frac{16}{79}, -\frac{16}{79}, \frac{13}{79}, \frac{13}{79}, \frac{35}{79}, -\frac{24}{79}, \frac{27}{79})$ $+ \frac{2}{79}\sqrt{2211}e^2 \otimes e_8$	{1234, 12345, 123456, 1456789, 145789, 14789, 24567, 2457, 247, 345689, 34589, 3489}
931:14	$0, 0, 0, 0, 0, 0, \frac{1}{374}\sqrt{8274}e^{12}, \frac{1}{374}\sqrt{6895}e^{13}, \frac{1}{374}\sqrt{14578}e^{17} + \frac{1}{187}\sqrt{12805}e^{24}$	$(\frac{35}{374}, \frac{7}{44}, \frac{19}{374}, \frac{35}{187}, -\frac{25}{68}, -\frac{127}{374}, \frac{189}{748}, \frac{27}{187}, \frac{259}{748})$ $+ \frac{1}{187}\sqrt{17139}e^2 \otimes e_5 + \frac{1}{374}\sqrt{64419}e^4 \otimes e_6$	{1234, 1248, 134579, 145789, 23478, 247, 34589, 459}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{225}\sqrt{938}e^{12}, \frac{2}{225}\sqrt{3886}e^{13}, \frac{2}{225}\sqrt{2010}e^{17} + \frac{2}{225}\sqrt{3886}e^{24}$	$(-\frac{16}{225}, \frac{86}{225}, -\frac{32}{225}, -\frac{32}{225}, \frac{31}{75}, -\frac{41}{225}, \frac{14}{45}, -\frac{16}{75}, \frac{6}{25})$ $+ \frac{134}{225}e^5 \otimes e_6 + \frac{4}{225}\sqrt{2211}e^2 \otimes e_8$	{12345, 12346, 145789, 146789, 2457, 2467, 34589, 34689}
931:14	$0, 0, 0, 0, 0, 0, \frac{28}{2911}\sqrt{166}e^{12}, \frac{56}{2911}\sqrt{430}e^{13}, \frac{28}{2911}\sqrt{510}e^{17} + \frac{28}{2911}\sqrt{1618}e^{24}$	$(-\frac{7}{71}, \frac{694}{2911}, \frac{197}{2911}, -\frac{14}{71}, \frac{904}{2911}, -\frac{587}{2911}, \frac{407}{2911}, -\frac{90}{2911}, \frac{120}{2911})$ $+ \frac{28}{2911}\sqrt{1338}e^5 \otimes e_9 + \frac{28}{2911}\sqrt{2370}e^2 \otimes e_8 + \frac{56}{2911}\sqrt{411}e^3 \otimes e_6$	{12379, 1568, 269, 3578}
931:14	$0, 0, 0, 0, 0, 0, \frac{24}{49}\sqrt{3}e^{12}, \frac{32}{49}e^{13}, \frac{24}{49}\sqrt{3}e^{17} + \frac{32}{49}e^{24}$	$(\frac{11}{49}, -\frac{5}{49}, -\frac{3}{7}, \frac{22}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{8}{49}\sqrt{43}e^1 \otimes e_3$	{124569, 12459, 1249, 14567, 1457, 147, 2345679, 234579, 23479, 34, 345, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{17} + \frac{1}{71}\sqrt{53}e^{24}$	$(-\frac{23}{142}, \frac{30}{71}, -\frac{2}{71}, -\frac{23}{71}, \frac{79}{142}, \frac{8}{71}, \frac{37}{142}, -\frac{27}{142}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 + \frac{3}{71}\sqrt{371}e^5 \otimes e_8$	{1235, 12356, 1268, 128, 23678, 2378, 2567, 257}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{1063}\sqrt{51106}e^{12}, \frac{2}{1063}\sqrt{28078}e^{13}, \frac{4}{1063}\sqrt{9797}e^{17} + \frac{2}{1063}\sqrt{28078}e^{24}$	$(-\frac{8}{1063}, \frac{186}{1063}, -\frac{210}{1063}, -\frac{16}{1063}, \frac{161}{1063}, -\frac{41}{1063}, \frac{178}{1063}, -\frac{218}{1063}, \frac{170}{1063})$ $+ \frac{202}{1063}e^5 \otimes e_6 + \frac{2}{1063}\sqrt{35754}e^2 \otimes e_4 + \frac{4}{1063}\sqrt{13837}e^1 \otimes e_3$	{1457, 1467, 345, 346}
931:14	$0, 0, 0, 0, 0, 0, \frac{28}{2911}\sqrt{510}e^{12}, \frac{56}{2911}\sqrt{430}e^{13}, \frac{28}{2911}\sqrt{166}e^{17} + \frac{28}{2911}\sqrt{1618}e^{24}$	$(-\frac{7}{71}, \frac{350}{2911}, \frac{560}{2911}, -\frac{14}{71}, \frac{1057}{2911}, -\frac{434}{2911}, \frac{63}{2911}, \frac{273}{2911}, -\frac{224}{2911})$ $+ \frac{28}{2911}\sqrt{1338}e^2 \otimes e_6 + \frac{28}{2911}\sqrt{2370}e^3 \otimes e_9 + \frac{56}{2911}\sqrt{411}e^5 \otimes e_8$	{12789, 1356, 259, 3678}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{1531}\sqrt{155890}e^{12}, \frac{4}{1531}\sqrt{16637}e^{13}, \frac{2}{1531}\sqrt{112922}e^{17} + \frac{6}{1531}\sqrt{3930}e^{24}$	$(\frac{132}{1531}, \frac{161}{1531}, -\frac{392}{1531}, \frac{264}{1531}, \frac{264}{1531}, -\frac{363}{1531}, \frac{293}{1531}, -\frac{260}{1531}, \frac{425}{1531})$ $+ \frac{10}{1531}\sqrt{8122}e^1 \otimes e_3 + \frac{4}{1531}\sqrt{32226}e^2 \otimes e_6 + \frac{6}{1531}\sqrt{3930}e^5 \otimes e_8$	{12459, 14567, 234579, 3456}
931:14	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{2}{157}\sqrt{267}e^{17} + \frac{4}{157}\sqrt{890}e^{24}$	$(-\frac{6}{157}, \frac{77}{157}, \frac{31}{157}, -\frac{12}{157}, -\frac{101}{157}, \frac{28}{157}, \frac{71}{157}, \frac{25}{157}, \frac{65}{157})$ $+ \frac{2}{157}\sqrt{11481}e^2 \otimes e_5$	{123468, 12348, 124, 1246, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 34569, 3459, 45689, 4589}
931:14	$0, 0, 0, 0, 0, 0, \frac{9}{223}\sqrt{202}e^{12}, \frac{2}{223}\sqrt{505}e^{13}, \frac{6}{223}\sqrt{303}e^{17} + \frac{2}{223}\sqrt{505}e^{24}$	$(\frac{17}{223}, \frac{34}{223}, -\frac{84}{223}, \frac{34}{223}, \frac{24}{223}, \frac{24}{223}, \frac{51}{223}, -\frac{67}{223}, \frac{68}{223})$ $+ \frac{2}{223}\sqrt{5959}e^1 \otimes e_3 + \frac{9}{223}\sqrt{202}e^2 \otimes e_8$	{124569, 12459, 1249, 2345679, 234579, 23479}
931:14	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{17} + \frac{1}{71}\sqrt{53}e^{24}$	$(-\frac{23}{142}, \frac{30}{71}, \frac{59}{142}, -\frac{23}{71}, -\frac{47}{142}, \frac{8}{71}, \frac{37}{142}, \frac{18}{71}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 + \frac{3}{71}\sqrt{371}e^3 \otimes e_5$	{123, 1236, 12568, 1258, 23678, 2378, 2567, 257}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{1665}\sqrt{541006}e^{12}, \frac{4}{1665}\sqrt{23522}e^{13}, \frac{2}{1665}\sqrt{196842}e^{17} + \frac{1}{1665}\sqrt{75518}e^{45}$	$(\frac{238}{1665}, -\frac{92}{555}, -\frac{127}{555}, \frac{20}{333}, \frac{20}{333}, \frac{91}{185}, -\frac{38}{1665}, -\frac{143}{1665}, \frac{40}{333})$ $+ \frac{2}{1665}\sqrt{203651}e^6 \otimes e_9 + \frac{2}{555}\sqrt{29093}e^1 \otimes e_3$	{1249, 14567, 167, 23479, 3456, 36}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{141}\sqrt{1790}e^{12}, \frac{1}{141}\sqrt{3938}e^{13}, \frac{2}{141}\sqrt{1074}e^{17} + \frac{1}{141}\sqrt{18258}e^{45}$	$(\frac{22}{141}, \frac{7}{47}, \frac{5}{47}, \frac{30}{47}, -\frac{25}{141}, -\frac{89}{141}, \frac{43}{141}, \frac{37}{141}, \frac{65}{141})$ $+ \frac{1}{141}\sqrt{41170}e^4 \otimes e_6$	{12345, 1236, 12458, 1268, 13479, 135679, 14789, 156789, 234578, 23678, 2457, 267, 3489, 35689, 49, 569}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{184}\sqrt{1245}e^{12}, \frac{1}{92}\sqrt{1743}e^{13}, \frac{1}{184}\sqrt{830}e^{17} + \frac{3}{184}\sqrt{1162}e^{45}$	$(-\frac{5}{92}, \frac{27}{184}, -\frac{45}{368}, \frac{101}{368}, -\frac{87}{368}, \frac{45}{92}, \frac{17}{184}, -\frac{65}{368}, \frac{7}{184})$ $+ \frac{1}{184}\sqrt{11703}e^6 \otimes e_9 + \frac{3}{92}\sqrt{3901}e^4 \otimes e_8$	{123479, 125789, 13456, 168, 23589, 249, 3678, 4567}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{144}\sqrt{5902}e^{17} + \frac{1}{432}\sqrt{18614}e^{45}$	$(\frac{5}{27}, -\frac{49}{144}, \frac{5}{288}, \frac{13}{864}, \frac{13}{864}, \frac{5}{9}, -\frac{67}{432}, \frac{175}{864}, \frac{13}{432})$ $+ \frac{1}{432}\sqrt{87395}e^6 \otimes e_9 + \frac{1}{54}\sqrt{1362}e^1 \otimes e_2$	{134567, 1367, 145678, 1678, 234789, 2479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:15	$0, 0, 0, 0, 0, \frac{2}{3709}\sqrt{283470e^{12}}, \frac{12}{3709}\sqrt{9449e^{13}}, \frac{4}{3709}\sqrt{66143e^{17}} + \frac{2}{3709}\sqrt{434654e^{45}}$	$(-\frac{672}{3709}, \frac{1056}{3709}, \frac{1430}{3709}, -\frac{1003}{3709}, \frac{715}{3709}, -\frac{662}{3709}, \frac{384}{3709}, \frac{758}{3709}, -\frac{288}{3709}) + \frac{1718}{3709}e^5 \otimes e_4 + \frac{4}{3709}\sqrt{314394e^3} \otimes e_9 + \frac{64}{3709}\sqrt{859e^2} \otimes e_6$	{12489, 12589, 2479, 2579}
931:15	$0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{16870e^{12}}, \frac{2}{1169}\sqrt{76638e^{13}}, \frac{8}{1169}\sqrt{1446e^{17}} + \frac{6}{1169}\sqrt{1687e^{45}}$	$(-\frac{199}{1169}, \frac{458}{1169}, \frac{25}{167}, -\frac{211}{1169}, \frac{271}{1169}, -\frac{307}{1169}, \frac{37}{167}, -\frac{24}{1169}, \frac{60}{1169}) + \frac{2}{1169}\sqrt{104835e^2} \otimes e_8 + \frac{40}{1169}\sqrt{241e^3} \otimes e_6 + \frac{482}{1169}e^5 \otimes e_4$	{146789, 156789, 3489, 3589}
931:15	$0, 0, 0, 0, 0, \frac{8}{4461}\sqrt{10005e^{12}}, \frac{20}{4461}\sqrt{7337e^{13}}, \frac{2}{4461}\sqrt{489578e^{17}} + \frac{4}{4461}\sqrt{82041e^{45}}$	$(\frac{370}{4461}, -\frac{964}{4461}, \frac{370}{1487}, -\frac{779}{4461}, \frac{185}{1487}, \frac{380}{4461}, -\frac{198}{1487}, \frac{1480}{4461}, -\frac{224}{4461}) + \frac{1334}{4461}e^5 \otimes e_4 + \frac{2}{4461}\sqrt{1220610e^3} \otimes e_9 + \frac{8}{1487}\sqrt{7337e^1} \otimes e_2$	{14689, 1489, 15689, 1589}
931:15	$0, 0, 0, 0, 0, \frac{1}{311}\sqrt{7770e^{12}}, \frac{2}{311}\sqrt{7030e^{13}}, \frac{1}{311}\sqrt{15170e^{17}} + \frac{1}{311}\sqrt{30710e^{45}}$	$(-\frac{20}{311}, \frac{118}{311}, -\frac{40}{311}, \frac{125}{311}, -\frac{47}{311}, -\frac{67}{311}, \frac{98}{311}, -\frac{60}{311}, \frac{78}{311}) + \frac{1}{311}\sqrt{38110e^2} \otimes e_6 + \frac{2}{311}\sqrt{15910e^4} \otimes e_8$	{12345, 128, 134679, 156789, 2378, 2457, 35689, 469}
931:15	$0, 0, 0, 0, 0, \frac{21}{1643}\sqrt{862e^{12}}, \frac{84}{1643}\sqrt{15e^{13}}, \frac{42}{1643}\sqrt{222e^{17}} + \frac{21}{1643}\sqrt{110e^{45}}$	$(\frac{42}{1643}, \frac{84}{1643}, -\frac{399}{1643}, \frac{84}{1643}, \frac{84}{1643}, \frac{609}{1643}, \frac{126}{1643}, -\frac{357}{1643}, \frac{168}{1643}) + \frac{42}{1643}\sqrt{235e^6} \otimes e_9 + \frac{42}{1643}\sqrt{329e^1} \otimes e_3 + \frac{84}{1643}\sqrt{47e^2} \otimes e_8$	{1249, 23479}
931:15	$0, 0, 0, 0, 0, \frac{2}{213}\sqrt{2814e^{12}}, \frac{4}{213}\sqrt{335e^{13}}, \frac{4}{213}\sqrt{737e^{17}} + \frac{2}{213}\sqrt{402e^{45}}$	$(\frac{40}{213}, -\frac{16}{213}, \frac{2}{71}, \frac{33}{71}, -\frac{35}{213}, -\frac{94}{213}, \frac{8}{213}, \frac{46}{213}, \frac{64}{213}) + \frac{134}{213}e^4 \otimes e_5 + \frac{4}{213}\sqrt{2010e^1} \otimes e_6$	{1347, 1357, 1478, 1578, 3468, 3568, 46, 56}
931:15	$0, 0, 0, 0, 0, \frac{2}{241}\sqrt{85e^{12}}, \frac{6}{241}\sqrt{255e^{13}}, \frac{1}{241}\sqrt{4930e^{17}} + \frac{9}{241}\sqrt{170e^{45}}$	$(\frac{25}{241}, \frac{23}{241}, -\frac{60}{241}, \frac{23}{241}, \frac{50}{241}, -\frac{62}{241}, \frac{48}{241}, -\frac{35}{241}, \frac{73}{241}) + \frac{10}{241}\sqrt{187e^5} \otimes e_8 + \frac{1}{241}\sqrt{14110e^4} \otimes e_6 + \frac{3}{241}\sqrt{510e^1} \otimes e_3$	{124789, 168, 23489, 3678}
931:15	$0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470e^{12}}, \frac{12}{551}\sqrt{2082e^{13}}, \frac{2}{551}\sqrt{19779e^{17}} + \frac{2}{551}\sqrt{17697e^{45}}$	$(-\frac{23}{551}, \frac{136}{551}, -\frac{120}{551}, \frac{45}{551}, \frac{45}{551}, 1, \frac{113}{551}, -\frac{143}{551}, \frac{90}{551}) + \frac{2}{551}\sqrt{157885e^6} \otimes e_8$	{1234679, 124789, 13456, 136, 1458, 18, 23489, 2469, 34578, 378, 4567, 67}
931:15	$0, 0, 0, 0, 0, \frac{18}{473}\sqrt{133e^{12}}, \frac{57}{473}\sqrt{10e^{13}}, \frac{6}{473}\sqrt{589e^{17}} + \frac{6}{473}\sqrt{38e^{45}}$	$(-\frac{6}{473}, \frac{120}{473}, -\frac{45}{473}, \frac{54}{473}, \frac{54}{473}, -\frac{177}{473}, \frac{114}{473}, -\frac{51}{473}, \frac{108}{473}) + \frac{3}{473}\sqrt{8626e^1} \otimes e_6 + \frac{42}{473}\sqrt{38e^2} \otimes e_8$	{123459, 1239, 1478, 245679, 2679, 3468}
931:15	$0, 0, 0, 0, 0, \frac{27}{1817}\sqrt{1318e^{12}}, \frac{2}{1817}\sqrt{121915e^{13}}, \frac{6}{1817}\sqrt{19770e^{17}} + \frac{1}{1817}\sqrt{167386e^{45}}$	$(\frac{224}{1817}, \frac{124}{1817}, -\frac{435}{1817}, \frac{286}{1817}, \frac{286}{1817}, -\frac{535}{1817}, \frac{348}{1817}, -\frac{211}{1817}, \frac{572}{1817}) + \frac{2}{1817}\sqrt{228673e^2} \otimes e_6 + \frac{2}{1817}\sqrt{317638e^1} \otimes e_3$	{12459, 129, 1467, 234579, 2379, 346}
931:15	$0, 0, 0, 0, 0, \frac{2}{751}\sqrt{11247e^{12}}, \frac{2}{751}\sqrt{45966e^{13}}, \frac{2}{751}\sqrt{4238e^{17}} + \frac{18}{751}\sqrt{326e^{45}}$	$(\frac{179}{751}, -\frac{147}{751}, -\frac{207}{751}, \frac{298}{751}, -\frac{87}{751}, \frac{75}{751}, \frac{32}{751}, -\frac{28}{751}, \frac{211}{751}) + \frac{2}{751}\sqrt{47433e^1} \otimes e_2 + \frac{2}{751}\sqrt{62755e^4} \otimes e_8$	{1345, 13456, 168, 18, 235689, 23589, 2469, 249}
931:15	$0, 0, 0, 0, 0, \frac{2}{3949}\sqrt{541006e^{12}}, \frac{8}{3949}\sqrt{23522e^{13}}, \frac{4}{3949}\sqrt{196842e^{17}} + \frac{2}{3949}\sqrt{75518e^{45}}$	$(\frac{476}{3949}, -\frac{552}{3949}, -\frac{762}{3949}, \frac{819}{3949}, -\frac{419}{3949}, \frac{1638}{3949}, -\frac{76}{3949}, -\frac{26}{3949}, \frac{400}{3949}) + \frac{1238}{3949}e^4 \otimes e_5 + \frac{12}{3949}\sqrt{29093e^1} \otimes e_3 + \frac{4}{3949}\sqrt{203651e^6} \otimes e_9$	{1249, 1259, 23479, 23579}
931:15	$0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778e^{12}}, \frac{2}{215}\sqrt{1463e^{13}}, \frac{2}{215}\sqrt{1463e^{17}} + \frac{1}{215}\sqrt{8778e^{45}}$	$(\frac{44}{215}, -\frac{6}{215}, -\frac{89}{215}, \frac{88}{215}, -\frac{6}{215}, \frac{27}{215}, \frac{38}{215}, -\frac{9}{43}, \frac{82}{215}) + \frac{2}{215}\sqrt{6251e^1} \otimes e_3 + \frac{2}{215}\sqrt{6251e^4} \otimes e_8$	{125689, 12589, 1678, 178, 2356789, 235789, 368, 38}
931:15	$0, 0, 0, 0, 0, \frac{14}{225}\sqrt{19e^{12}}, \frac{56}{225}\sqrt{5e^{13}}, \frac{28}{225}e^{17} + \frac{28}{225}\sqrt{11e^{45}}$	$(-\frac{14}{75}, \frac{14}{75}, \frac{56}{225}, -\frac{7}{75}, -\frac{7}{75}, \frac{112}{225}, 0, \frac{14}{225}, -\frac{14}{75}) + \frac{14}{225}\sqrt{113e^3} \otimes e_9 + \frac{14}{225}\sqrt{89e^6} \otimes e_8$	{1234567, 12367, 1489, 23458, 238, 4679}
931:15	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{9389e^{12}}, \frac{1}{353}\sqrt{2290e^{13}}, \frac{1}{353}\sqrt{39846e^{17}} + \frac{1}{353}\sqrt{6870e^{45}}$	$(\frac{77}{353}, -\frac{40}{353}, -\frac{152}{353}, \frac{57}{353}, \frac{57}{353}, \frac{154}{353}, \frac{37}{353}, -\frac{75}{353}, \frac{114}{353}) + \frac{1}{353}\sqrt{91142e^1} \otimes e_3 + \frac{4}{353}\sqrt{3206e^6} \otimes e_8$	{124569, 1269, 1467, 2345679, 23679, 346}
931:15	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{2870e^{12}}, \frac{8}{2071}\sqrt{9730e^{13}}, \frac{4}{2071}\sqrt{10010e^{17}} + \frac{16}{2071}\sqrt{2415e^{45}}$	$(-\frac{280}{2071}, \frac{638}{2071}, \frac{176}{2071}, -\frac{378}{2071}, \frac{24}{109}, -\frac{384}{2071}, \frac{358}{2071}, -\frac{104}{2071}, \frac{78}{2071}) - \frac{20}{2071}\sqrt{1414e^2} \otimes e_9 + \frac{24}{2071}\sqrt{1085e^3} \otimes e_6 + \frac{8}{2071}\sqrt{14595e^5} \otimes e_8$	{12345, 1268, 13579, 146789, 2378, 24567, 3489, 569}
931:15	$0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{2870e^{12}}, \frac{8}{2071}\sqrt{9730e^{13}}, \frac{4}{2071}\sqrt{10010e^{17}} + \frac{16}{2071}\sqrt{2415e^{45}}$	$(-\frac{280}{2071}, \frac{638}{2071}, \frac{176}{2071}, -\frac{378}{2071}, \frac{24}{109}, -\frac{384}{2071}, \frac{358}{2071}, -\frac{104}{2071}, \frac{78}{2071}) + \frac{20}{2071}\sqrt{1414e^2} \otimes e_9 + \frac{24}{2071}\sqrt{1085e^3} \otimes e_6 + \frac{8}{2071}\sqrt{14595e^5} \otimes e_8$	{12345, 1268, 13579, 146789, 2378, 24567, 3489, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{563}\sqrt{8778e^{12}}, \frac{4}{563}\sqrt{1463e^{13}}, \frac{4}{563}\sqrt{1463e^{17}} + \frac{2}{563}\sqrt{8778e^{45}}$	$(-\frac{100}{563}, \frac{176}{563}, \frac{10}{563}, \frac{121}{563}, -\frac{145}{563}, \frac{242}{563}, \frac{76}{563}, -\frac{90}{563}, -\frac{24}{563})$ $+ \frac{266}{563}e^4 \otimes e_5 + \frac{4}{563}\sqrt{6251e^2} \otimes e_8 + \frac{4}{563}\sqrt{6251e^6} \otimes e_9$	{12349, 12359, 2479, 2579}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{213}\sqrt{402e^{12}}, \frac{4}{213}\sqrt{737e^{13}}, \frac{4}{213}\sqrt{335e^{17}} + \frac{2}{213}\sqrt{2814e^{45}}$	$(-\frac{32}{213}, \frac{32}{213}, \frac{34}{71}, \frac{17}{71}, -\frac{83}{213}, \frac{26}{213}, 0, \frac{70}{213}, -\frac{32}{213})$ $+ \frac{134}{213}e^4 \otimes e_5 + \frac{4}{213}\sqrt{2010e^3} \otimes e_9$	{14689, 1489, 15689, 1589, 4679, 479, 5679, 579}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{141}\sqrt{30e^{12}}, \frac{2}{141}\sqrt{345e^{13}}, \frac{2}{141}\sqrt{30e^{17}} + \frac{5}{141}\sqrt{42e^{45}}$	$(-\frac{2}{47}, \frac{4}{47}, \frac{5}{47}, -\frac{8}{47}, \frac{8}{47}, -\frac{7}{47}, \frac{2}{47}, \frac{3}{47}, 0)$ $+ \frac{10}{141}\sqrt{15e^3} \otimes e_9 + \frac{4}{47}\sqrt{10e^5} \otimes e_8 + \frac{8}{141}\sqrt{15e^1} \otimes e_6$	{123457, 1489, 2368, 5679}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{1318e^{12}}, \frac{4}{4293}\sqrt{121915e^{13}}, \frac{4}{1431}\sqrt{19770e^{17}} + \frac{2}{4293}\sqrt{167386e^{45}}$	$(\frac{448}{4293}, \frac{248}{4293}, -\frac{290}{1431}, -\frac{29}{1431}, \frac{1231}{4293}, -\frac{1070}{4293}, \frac{232}{1431}, -\frac{422}{4293}, \frac{1144}{4293})$ $+ \frac{1318}{4293}e^5 \otimes e_4 + \frac{4}{4293}\sqrt{228673e^2} \otimes e_6 + \frac{4}{4293}\sqrt{317638e^1} \otimes e_3$	{1467, 1567, 346, 356}
931:15	$0, 0, 0, 0, 0, 0, \frac{4}{935}\sqrt{9389e^{12}}, \frac{2}{935}\sqrt{2290e^{13}}, \frac{2}{935}\sqrt{39846e^{17}} + \frac{2}{935}\sqrt{6870e^{45}}$	$(\frac{14}{85}, -\frac{16}{187}, -\frac{304}{935}, \frac{343}{935}, -\frac{23}{187}, \frac{28}{85}, \frac{74}{935}, -\frac{30}{187}, \frac{228}{935})$ $+ \frac{2}{935}\sqrt{91142e^1} \otimes e_3 + \frac{458}{935}e^4 \otimes e_5 + \frac{8}{935}\sqrt{3206e^6} \otimes e_8$	{1467, 1567, 346, 356}
931:15	$0, 0, 0, 0, 0, 0, \frac{7}{137}\sqrt{19e^{12}}, \frac{28}{137}\sqrt{5e^{13}}, \frac{14}{137}e^{17} + \frac{14}{137}\sqrt{11e^{45}}$	$(-\frac{21}{137}, \frac{21}{137}, \frac{28}{137}, \frac{14}{137}, -\frac{35}{137}, \frac{56}{137}, 0, \frac{7}{137}, -\frac{21}{137})$ $+ \frac{49}{137}e^4 \otimes e_5 + \frac{7}{137}\sqrt{113e^3} \otimes e_9 + \frac{7}{137}\sqrt{89e^6} \otimes e_8$	{1489, 1589, 4679, 5679}
931:15	$0, 0, 0, 0, 0, 0, \frac{6}{227}\sqrt{35e^{12}}, \frac{3}{227}\sqrt{742e^{13}}, \frac{3}{227}\sqrt{14e^{17}} + \frac{3}{227}\sqrt{770e^{45}}$	$(-\frac{42}{227}, \frac{73}{227}, \frac{52}{227}, -\frac{35}{227}, \frac{24}{227}, -\frac{39}{227}, \frac{31}{227}, \frac{10}{227}, -\frac{11}{227})$ $+ \frac{3}{227}\sqrt{1190e^3} \otimes e_9 + \frac{3}{227}\sqrt{826e^5} \otimes e_6 + \frac{63}{227}\sqrt{2e^2} \otimes e_8$	{12345, 1236, 146789, 15789}
931:15	$0, 0, 0, 0, 0, 0, \frac{20}{953}\sqrt{89e^{12}}, \frac{120}{953}\sqrt{3e^{13}}, \frac{20}{953}\sqrt{19e^{17}} + \frac{360}{953}e^{45}$	$(-\frac{100}{953}, \frac{286}{953}, -\frac{30}{953}, \frac{16}{953}, \frac{70}{953}, -\frac{184}{953}, \frac{186}{953}, -\frac{130}{953}, \frac{86}{953})$ $+ \frac{20}{953}\sqrt{262e^4} \otimes e_6 + \frac{40}{953}\sqrt{79e^5} \otimes e_8 - \frac{60}{953}\sqrt{33e^2} \otimes e_9$	{12345, 1268, 135679, 14789, 23678, 2457, 3489, 569}
931:15	$0, 0, 0, 0, 0, 0, \frac{20}{953}\sqrt{89e^{12}}, \frac{120}{953}\sqrt{3e^{13}}, \frac{20}{953}\sqrt{19e^{17}} + \frac{360}{953}e^{45}$	$(-\frac{100}{953}, \frac{286}{953}, -\frac{30}{953}, \frac{16}{953}, \frac{70}{953}, -\frac{184}{953}, \frac{186}{953}, -\frac{130}{953}, \frac{86}{953})$ $+ \frac{20}{953}\sqrt{262e^4} \otimes e_6 + \frac{40}{953}\sqrt{79e^5} \otimes e_8 + \frac{60}{953}\sqrt{33e^2} \otimes e_9$	{12345, 1268, 135679, 14789, 23678, 2457, 3489, 569}
931:15	$0, 0, 0, 0, 0, 0, \frac{9}{241}\sqrt{170e^{12}}, \frac{1}{241}\sqrt{4930e^{13}}, \frac{6}{241}\sqrt{255e^{17}} + \frac{2}{241}\sqrt{85e^{45}}$	$(\frac{25}{241}, \frac{23}{241}, -\frac{60}{241}, \frac{23}{241}, \frac{50}{241}, -\frac{62}{241}, \frac{48}{241}, -\frac{35}{241}, \frac{73}{241})$ $+ \frac{10}{241}\sqrt{187e^1} \otimes e_3 + \frac{1}{241}\sqrt{14110e^2} \otimes e_6 + \frac{3}{241}\sqrt{510e^5} \otimes e_8$	{12459, 1567, 234579, 356}
931:15	$0, 0, 0, 0, 0, 0, \frac{36}{1813}\sqrt{214e^{12}}, \frac{3}{1813}\sqrt{129898e^{13}}, \frac{12}{1813}\sqrt{1819e^{17}} + \frac{3}{1813}\sqrt{2782e^{45}}$	$(\frac{429}{1813}, -\frac{534}{1813}, \frac{353}{1813}, \frac{162}{1813}, \frac{162}{1813}, -\frac{610}{1813}, -\frac{15}{1813}, \frac{782}{1813}, \frac{324}{1813})$ $+ \frac{3}{1813}\sqrt{167990e^3} \otimes e_6 + \frac{3}{1813}\sqrt{182542e^1} \otimes e_2$	{1349, 14689, 23458, 238, 2456, 26}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{827}\sqrt{65190e^{12}}, \frac{2}{827}\sqrt{1590e^{13}}, \frac{4}{827}\sqrt{5830e^{17}} + \frac{1}{827}\sqrt{65190e^{45}}$	$(\frac{70}{827}, -\frac{48}{827}, -\frac{195}{827}, \frac{140}{827}, -\frac{48}{827}, \frac{357}{827}, \frac{22}{827}, -\frac{125}{827}, \frac{92}{827})$ $+ \frac{2}{827}\sqrt{24910e^4} \otimes e_8 + \frac{2}{827}\sqrt{37365e^1} \otimes e_3 + \frac{2}{827}\sqrt{37365e^6} \otimes e_9$	{1249, 14567, 23479, 3456}
931:15	$0, 0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470e^{12}}, \frac{12}{551}\sqrt{2082e^{13}}, \frac{2}{551}\sqrt{19779e^{17}} + \frac{2}{551}\sqrt{17697e^{45}}$	$(-\frac{23}{551}, \frac{136}{551}, \frac{335}{551}, \frac{45}{551}, \frac{45}{551}, -\frac{359}{551}, \frac{113}{551}, \frac{312}{551}, \frac{90}{551})$ $+ \frac{2}{551}\sqrt{157885e^3} \otimes e_6$	{123479, 1246789, 13, 1345, 14568, 168, 23489, 2469, 34578, 378, 4567, 67}
931:15	$0, 0, 0, 0, 0, 0, \frac{6}{4141}\sqrt{21082e^{12}}, \frac{12}{4141}\sqrt{20833e^{13}}, \frac{48}{4141}\sqrt{166e^{17}} + \frac{18}{4141}\sqrt{5810e^{45}}$	$(-\frac{996}{4141}, \frac{1512}{4141}, \frac{1014}{4141}, -\frac{987}{4141}, \frac{507}{4141}, \frac{390}{4141}, \frac{516}{4141}, \frac{18}{4141}, -\frac{480}{4141})$ $+ \frac{12}{4141}\sqrt{33781e^3} \otimes e_9 + \frac{1494}{4141}e^5 \otimes e_4 + \frac{24}{4141}\sqrt{7138e^2} \otimes e_8$	{24679, 2479, 25679, 2579}
931:15	$0, 0, 0, 0, 0, 0, \frac{16}{113}\sqrt{3e^{12}}, \frac{16}{113}\sqrt{29e^{13}}, \frac{16}{113}\sqrt{29e^{17}} + \frac{16}{113}\sqrt{3e^{45}}$	$(\frac{58}{113}, -\frac{70}{113}, -\frac{9}{113}, \frac{23}{113}, \frac{23}{113}, \frac{20}{113}, -\frac{12}{113}, \frac{49}{113}, \frac{46}{113})$ $+ \frac{16}{113}\sqrt{93e^1} \otimes e_2$	{134569, 13459, 1369, 139, 145689, 14589, 1689, 189, 23468, 2348, 24, 246}
931:15	$0, 0, 0, 0, 0, 0, \frac{378}{4729}\sqrt{5e^{12}}, \frac{168}{4729}\sqrt{97e^{13}}, \frac{42}{4729}\sqrt{478e^{17}} + \frac{42}{4729}\sqrt{526e^{45}}$	$(\frac{168}{4729}, -\frac{714}{4729}, \frac{504}{4729}, -\frac{189}{4729}, -\frac{189}{4729}, \frac{1554}{4729}, -\frac{546}{4729}, \frac{672}{4729}, -\frac{378}{4729})$ $+ \frac{126}{4729}\sqrt{191e^3} \otimes e_9 + \frac{168}{4729}\sqrt{91e^1} \otimes e_2 + \frac{42}{4729}\sqrt{1217e^6} \otimes e_8$	{1489, 23458, 238}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{1169}\sqrt{1990e^{12}}, \frac{6}{1169}\sqrt{1870e^{13}}, \frac{24}{1169}\sqrt{35e^{17}} + \frac{6}{1169}\sqrt{2135e^{45}}$	$(-\frac{87}{1169}, \frac{25}{1169}, \frac{13}{1169}, -\frac{93}{1169}, \frac{94}{1169}, -\frac{183}{1169}, \frac{88}{1169}, \frac{4}{1169}, \frac{1}{1169})$ $+ \frac{27}{1169}\sqrt{110e^5} \otimes e_8 + \frac{3}{1169}\sqrt{5170e^4} \otimes e_6 + \frac{3}{1169}\sqrt{7790e^3} \otimes e_9$	{124789, 1345, 2569, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{449}\sqrt{3470}e^{12}, \frac{6}{449}\sqrt{2082}e^{13}, \frac{1}{449}\sqrt{19779}e^{17} + \frac{1}{449}\sqrt{17697}e^{45}$	$(-\frac{23}{898}, \frac{68}{449}, \frac{335}{898}, \frac{196}{449}, -\frac{151}{449}, -\frac{359}{898}, \frac{113}{898}, \frac{156}{449}, \frac{45}{449}) + \frac{1}{449}\sqrt{157885}e^3 \otimes e_6 + \frac{347}{449}e^4 \otimes e_5$	{123479, 123579, 1246789, 1256789, 23489, 23589, 2469, 2569}
931:15	$0, 0, 0, 0, 0, 0, \frac{16}{177}\sqrt{3}e^{12}, \frac{16}{177}\sqrt{29}e^{13}, \frac{16}{177}\sqrt{29}e^{17} + \frac{16}{177}\sqrt{3}e^{45}$	$(\frac{58}{177}, -\frac{70}{177}, -\frac{3}{59}, \frac{29}{59}, -\frac{41}{177}, \frac{20}{177}, -\frac{4}{59}, \frac{49}{177}, \frac{46}{177}) + \frac{128}{177}e^4 \otimes e_5 + \frac{16}{177}\sqrt{93}e^1 \otimes e_2$	{23468, 2348, 23568, 2358, 24, 246, 25, 256}
931:15	$0, 0, 0, 0, 0, 0, \frac{36}{1813}\sqrt{214}e^{12}, \frac{3}{1813}\sqrt{129898}e^{13}, \frac{12}{1813}\sqrt{1819}e^{17} + \frac{3}{1813}\sqrt{2782}e^{45}$	$(\frac{429}{1813}, -\frac{534}{1813}, -\frac{432}{1813}, \frac{162}{1813}, \frac{162}{1813}, \frac{960}{1813}, -\frac{15}{259}, -\frac{3}{1813}, \frac{324}{1813}) + \frac{3}{1813}\sqrt{167990}e^6 \otimes e_8 + \frac{3}{1813}\sqrt{182542}e^1 \otimes e_2$	{13469, 1489, 23458, 238, 2456, 26}
931:15	$0, 0, 0, 0, 0, 0, \frac{12}{4145}\sqrt{3054}e^{12}, \frac{6}{4145}\sqrt{55990}e^{13}, \frac{2}{4145}\sqrt{243302}e^{17} + \frac{4}{4145}\sqrt{102818}e^{45}$	$(\frac{333}{4145}, -\frac{137}{829}, \frac{999}{4145}, -\frac{466}{4145}, \frac{447}{4145}, -\frac{571}{4145}, -\frac{352}{4145}, \frac{1332}{4145}, -\frac{19}{4145}) + \frac{2}{4145}\sqrt{464717}e^5 \otimes e_6 + \frac{2}{4145}\sqrt{632687}e^1 \otimes e_2 + \frac{6}{4145}\sqrt{93147}e^3 \otimes e_9$	{14689, 1589, 23458, 2368}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{1443}\sqrt{100130}e^{12}, \frac{1}{1443}\sqrt{1054}e^{13}, \frac{1}{1443}\sqrt{213962}e^{17} + \frac{1}{1443}\sqrt{81158}e^{45}$	$(\frac{103}{1443}, \frac{206}{1443}, -\frac{424}{1443}, \frac{55}{1443}, \frac{119}{1443}, -\frac{170}{1443}, \frac{103}{1443}, -\frac{107}{1443}, \frac{412}{1443}) + \frac{1}{1443}\sqrt{584970}e^1 \otimes e_3 + \frac{2}{1443}\sqrt{119629}e^2 \otimes e_8 + \frac{1}{1443}\sqrt{79577}e^5 \otimes e_6$	{14578, 1678, 3458, 368}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{402}e^{12}, \frac{2}{73}\sqrt{737}e^{13}, \frac{2}{73}\sqrt{335}e^{17} + \frac{1}{73}\sqrt{2814}e^{45}$	$(-\frac{16}{73}, \frac{16}{73}, \frac{51}{73}, -\frac{8}{73}, -\frac{8}{73}, \frac{13}{73}, 0, \frac{35}{73}, -\frac{16}{73}) + \frac{2}{73}\sqrt{2010}e^3 \otimes e_9$	{1234567, 123457, 12367, 1237, 14689, 1489, 234568, 23458, 2368, 238, 4679, 479}
931:15	$0, 0, 0, 0, 0, 0, \frac{46}{449}\sqrt{7}e^{12}, \frac{8}{449}\sqrt{161}e^{13}, \frac{2}{449}\sqrt{12558}e^{17} + \frac{14}{449}\sqrt{230}e^{45}$	$(-\frac{32}{449}, \frac{30}{449}, \frac{69}{449}, \frac{144}{449}, -\frac{178}{449}, \frac{288}{449}, -\frac{2}{449}, \frac{37}{449}, -\frac{34}{449}) + \frac{2}{449}\sqrt{37835}e^6 \otimes e_9 + \frac{322}{449}e^4 \otimes e_5$	{123489, 123589, 1249, 1259, 23479, 23579, 24789, 25789}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{141}\sqrt{18258}e^{12}, \frac{2}{141}\sqrt{1074}e^{13}, \frac{1}{141}\sqrt{3938}e^{17} + \frac{1}{141}\sqrt{1790}e^{45}$	$(-\frac{8}{47}, \frac{30}{47}, \frac{38}{141}, \frac{7}{47}, \frac{7}{47}, -\frac{89}{141}, \frac{22}{141}, \frac{14}{47}, \frac{14}{47}) + \frac{1}{141}\sqrt{41170}e^2 \otimes e_6$	{123489, 1249, 1345678, 13678, 14567, 167, 23479, 24789, 3456, 36, 4568, 68}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{1817}\sqrt{10738}e^{12}, \frac{6}{1817}\sqrt{17017}e^{13}, \frac{30}{1817}\sqrt{91}e^{17} + \frac{3}{1817}\sqrt{107198}e^{45}$	$(-\frac{168}{1817}, \frac{256}{1817}, \frac{739}{1817}, \frac{312}{1817}, -\frac{392}{1817}, -\frac{507}{1817}, \frac{88}{1817}, \frac{571}{1817}, -\frac{80}{1817}) + \frac{24}{1817}\sqrt{2002}e^4 \otimes e_6 + \frac{6}{1817}\sqrt{41678}e^3 \otimes e_9$	{123457, 12367, 1489, 15689, 23458, 2368, 479, 5679}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{105}e^{12}, \frac{4}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{70}e^{17} + \frac{5}{79}\sqrt{42}e^{45}$	$(\frac{11}{79}, \frac{3}{79}, -\frac{15}{79}, \frac{31}{79}, -\frac{6}{79}, -\frac{24}{79}, \frac{14}{79}, -\frac{4}{79}, \frac{25}{79}) + \frac{1}{79}\sqrt{2310}e^1 \otimes e_6 + \frac{1}{79}\sqrt{2590}e^4 \otimes e_8$	{12349, 12589, 13457, 178, 2356789, 24679, 368, 456}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{449}\sqrt{3470}e^{12}, \frac{6}{449}\sqrt{2082}e^{13}, \frac{1}{449}\sqrt{19779}e^{17} + \frac{1}{449}\sqrt{17697}e^{45}$	$(-\frac{23}{898}, \frac{68}{449}, -\frac{60}{449}, \frac{196}{449}, -\frac{151}{449}, \frac{551}{898}, \frac{113}{898}, -\frac{143}{449}, \frac{45}{449}) + \frac{1}{449}\sqrt{157885}e^6 \otimes e_8 + \frac{347}{449}e^4 \otimes e_5$	{1234679, 1235679, 124789, 125789, 23489, 23589, 2469, 2569}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778}e^{12}, \frac{2}{215}\sqrt{1463}e^{13}, \frac{2}{215}\sqrt{1463}e^{17} + \frac{1}{215}\sqrt{8778}e^{45}$	$(-\frac{10}{43}, \frac{88}{215}, \frac{1}{43}, -\frac{6}{215}, -\frac{6}{215}, \frac{121}{215}, \frac{38}{215}, -\frac{9}{43}, -\frac{12}{215}) + \frac{2}{215}\sqrt{6251}e^2 \otimes e_8 + \frac{2}{215}\sqrt{6251}e^6 \otimes e_9$	{12349, 145678, 1678, 2479, 34568, 368}
931:15	$0, 0, 0, 0, 0, 0, \frac{36}{1117}\sqrt{133}e^{12}, \frac{114}{1117}\sqrt{10}e^{13}, \frac{12}{1117}\sqrt{589}e^{17} + \frac{12}{1117}\sqrt{38}e^{45}$	$(-\frac{12}{1117}, \frac{240}{1117}, -\frac{90}{1117}, -\frac{63}{1117}, \frac{279}{1117}, -\frac{354}{1117}, \frac{228}{1117}, -\frac{102}{1117}, \frac{216}{1117}) + \frac{342}{1117}e^5 \otimes e_4 + \frac{6}{1117}\sqrt{8626}e^1 \otimes e_6 + \frac{84}{1117}\sqrt{38}e^2 \otimes e_8$	{1478, 1578, 3468, 3568}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{2814}e^{12}, \frac{2}{73}\sqrt{335}e^{13}, \frac{2}{73}\sqrt{737}e^{17} + \frac{1}{73}\sqrt{402}e^{45}$	$(\frac{20}{73}, -\frac{8}{73}, \frac{3}{73}, \frac{16}{73}, \frac{16}{73}, -\frac{47}{73}, \frac{12}{73}, \frac{23}{73}, \frac{32}{73}) + \frac{2}{73}\sqrt{2010}e^1 \otimes e_6$	{123459, 1239, 124589, 1289, 1347, 1478, 23456789, 236789, 245679, 2679, 3468, 46}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{1517}\sqrt{6162}e^{12}, \frac{3}{1517}\sqrt{59566}e^{13}, \frac{4}{1517}\sqrt{17459}e^{17} + \frac{1}{1517}\sqrt{458042}e^{45}$	$(\frac{522}{1517}, -\frac{505}{1517}, -\frac{81}{1517}, \frac{582}{1517}, -\frac{43}{1517}, -\frac{445}{1517}, \frac{17}{1517}, \frac{441}{1517}, \frac{539}{1517}) + \frac{25}{1517}\sqrt{2054}e^4 \otimes e_6 + \frac{4}{1517}\sqrt{91403}e^1 \otimes e_2$	{1349, 13569, 1489, 15689, 23458, 2368, 245, 26}
931:15	$0, 0, 0, 0, 0, 0, \frac{14}{449}\sqrt{230}e^{12}, \frac{2}{449}\sqrt{12558}e^{13}, \frac{8}{449}\sqrt{161}e^{17} + \frac{46}{449}\sqrt{7}e^{45}$	$(-\frac{79}{449}, \frac{218}{449}, -\frac{25}{449}, \frac{191}{449}, -\frac{131}{449}, \frac{53}{449}, \frac{139}{449}, -\frac{104}{449}, \frac{60}{449}) + \frac{2}{449}\sqrt{37835}e^2 \otimes e_8 + \frac{322}{449}e^4 \otimes e_5$	{146789, 14789, 156789, 15789, 34689, 3489, 35689, 3589}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30710}e^{12}, \frac{1}{311}\sqrt{15170}e^{13}, \frac{2}{311}\sqrt{7030}e^{17} + \frac{1}{311}\sqrt{7770}e^{45}$	$(\frac{90}{311}, -\frac{47}{311}, -\frac{95}{311}, \frac{118}{311}, \frac{15}{311}, -\frac{67}{311}, \frac{43}{311}, -\frac{5}{311}, \frac{133}{311}) + \frac{1}{311}\sqrt{38110}e^4 \otimes e_6 + \frac{2}{311}\sqrt{15910}e^1 \otimes e_3$	{1249, 12569, 1457, 167, 23479, 235679, 345, 36}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:15	$0, 0, 0, 0, 0, 0, \frac{4}{1897}\sqrt{10005}e^{12}, \frac{10}{1897}\sqrt{7337}e^{13},$ $\frac{1}{1897}\sqrt{489578}e^{17} + \frac{2}{1897}\sqrt{82041}e^{45}$	$(\frac{185}{1897}, -\frac{482}{1897}, \frac{555}{1897}, -\frac{8}{271}, -\frac{8}{271}, \frac{190}{1897}, -\frac{297}{1897}, \frac{740}{1897}, -\frac{16}{271})$ $+ \frac{12}{1897}\sqrt{7337}e^1 \otimes e_2 + \frac{1}{1897}\sqrt{1220610}e^3 \otimes e_9$	{14689, 1489, 234568, 23458, 2368, 238}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{1817}\sqrt{167386}e^{12}, \frac{6}{1817}\sqrt{19770}e^{13},$ $\frac{2}{1817}\sqrt{121915}e^{17} + \frac{27}{1817}\sqrt{1318}e^{45}$	$(\frac{116}{1817}, \frac{286}{1817}, -\frac{381}{1817}, \frac{124}{1817}, \frac{394}{1817}, -\frac{535}{1817}, \frac{402}{1817}, -\frac{265}{1817}, \frac{518}{1817})$ $+ \frac{2}{1817}\sqrt{228673}e^4 \otimes e_6 + \frac{2}{1817}\sqrt{317638}e^5 \otimes e_8$	{1235679, 124789, 1345, 168, 23489, 2569, 3678, 457}
931:15	$0, 0, 0, 0, 0, 0, \frac{23}{144}\sqrt{7}e^{12}, \frac{1}{36}\sqrt{161}e^{13}, \frac{1}{144}\sqrt{12558}e^{17} + \frac{7}{144}\sqrt{230}e^{45}$	$(-\frac{1}{9}, \frac{5}{48}, \frac{23}{96}, -\frac{17}{288}, -\frac{17}{288}, 1, -\frac{1}{144}, \frac{37}{288}, -\frac{17}{144})$ $+ \frac{1}{144}\sqrt{37835}e^6 \otimes e_9$	{123489, 1249, 1345678, 13678, 14567, 167, 23479, 24789, 3456, 36, 4568, 68}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{424}\sqrt{565}e^{12}, \frac{1}{212}\sqrt{5763}e^{13},$ $\frac{5}{424}\sqrt{226}e^{17} + \frac{1}{424}\sqrt{21018}e^{45}$	$(\frac{25}{212}, -\frac{63}{424}, -\frac{135}{848}, \frac{191}{848}, -\frac{117}{848}, \frac{75}{212}, -\frac{13}{424}, -\frac{35}{848}, \frac{37}{424})$ $+ \frac{1}{106}\sqrt{1695}e^1 \otimes e_2 + \frac{1}{212}\sqrt{8701}e^4 \otimes e_8 + \frac{1}{424}\sqrt{26103}e^6 \otimes e_9$	{1349, 1589, 2368, 2456}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{3585}\sqrt{123087}e^{12}, \frac{2}{3585}\sqrt{493270}e^{13},$ $\frac{2}{3585}\sqrt{153974}e^{17} + \frac{2}{3585}\sqrt{474830}e^{45}$	$(\frac{629}{3585}, -\frac{293}{3585}, -\frac{267}{1195}, \frac{43}{717}, \frac{50}{239}, -\frac{707}{3585}, \frac{112}{1195}, -\frac{172}{3585}, \frac{193}{717})$ $+ \frac{2}{3585}\sqrt{382169}e^1 \otimes e_2 + \frac{2}{3585}\sqrt{696571}e^5 \otimes e_8 + \frac{8}{3585}\sqrt{28121}e^4 \otimes e_6$	{1345, 168, 23489, 2569}
931:15	$0, 0, 0, 0, 0, 0, \frac{21}{1849}\sqrt{318}e^{12}, \frac{22}{1849}\sqrt{1113}e^{13},$ $\frac{14}{1849}\sqrt{530}e^{17} + \frac{1}{1849}\sqrt{491946}e^{45}$	$(-\frac{238}{1849}, \frac{348}{1849}, \frac{243}{1849}, \frac{376}{1849}, -\frac{504}{1849}, \frac{159}{1849}, \frac{110}{1849}, \frac{5}{1849}, -\frac{128}{1849})$ $+ \frac{18}{1849}\sqrt{1855}e^3 \otimes e_9 + \frac{4}{1849}\sqrt{40810}e^4 \otimes e_8$	{1256789, 125789, 1345, 13456, 2469, 249, 3678, 378}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{464}\sqrt{16870}e^{12}, \frac{1}{464}\sqrt{76638}e^{13},$ $\frac{1}{116}\sqrt{1446}e^{17} + \frac{3}{464}\sqrt{1687}e^{45}$	$(-\frac{199}{928}, \frac{229}{464}, \frac{175}{928}, \frac{15}{464}, \frac{15}{464}, -\frac{307}{928}, \frac{259}{928}, -\frac{3}{116}, \frac{15}{232})$ $+ \frac{1}{464}\sqrt{104835}e^2 \otimes e_8 + \frac{5}{116}\sqrt{241}e^3 \otimes e_6$	{123, 12345, 146789, 24567, 267, 3489}
931:15	$0, 0, 0, 0, 0, 0, \frac{72}{4589}\sqrt{214}e^{12}, \frac{6}{4589}\sqrt{129898}e^{13},$ $\frac{24}{4589}\sqrt{1819}e^{17} + \frac{6}{4589}\sqrt{2782}e^{45}$	$(\frac{66}{353}, -\frac{1068}{4589}, \frac{2}{13}, -\frac{639}{4589}, \frac{99}{353}, -\frac{1220}{4589}, -\frac{210}{4589}, \frac{1564}{4589}, \frac{648}{4589})$ $+ \frac{1926}{4589}e^5 \otimes e_4 + \frac{6}{4589}\sqrt{167990}e^3 \otimes e_6 + \frac{6}{4589}\sqrt{182542}e^1 \otimes e_2$	{1349, 1359, 14689, 15689}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{1425}\sqrt{283470}e^{12}, \frac{2}{475}\sqrt{9449}e^{13},$ $\frac{2}{1425}\sqrt{66143}e^{17} + \frac{1}{1425}\sqrt{434654}e^{45}$	$(-\frac{112}{475}, \frac{176}{475}, \frac{143}{285}, -\frac{24}{475}, -\frac{24}{475}, \frac{331}{1425}, \frac{64}{475}, \frac{379}{1425}, -\frac{48}{475})$ $+ \frac{2}{1425}\sqrt{314394}e^3 \otimes e_9 + \frac{32}{1425}\sqrt{859}e^2 \otimes e_6$	{12489, 134567, 1367, 2479, 34568, 368}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{461}\sqrt{18258}e^{12}, \frac{4}{461}\sqrt{1074}e^{13},$ $\frac{2}{461}\sqrt{3938}e^{17} + \frac{2}{461}\sqrt{1790}e^{45}$	$(-\frac{48}{461}, \frac{180}{461}, \frac{76}{461}, \frac{221}{461}, -\frac{137}{461}, -\frac{178}{461}, \frac{132}{461}, \frac{28}{461}, \frac{84}{461})$ $+ \frac{2}{461}\sqrt{41170}e^2 \otimes e_6 + \frac{358}{461}e^4 \otimes e_5$	{123489, 123589, 1249, 1259, 23479, 23579, 24789, 25789}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{534}e^{12}, \frac{4}{111}\sqrt{89}e^{13}, \frac{4}{111}\sqrt{89}e^{17} + \frac{2}{111}\sqrt{534}e^{45}$	$(\frac{8}{111}, \frac{16}{111}, \frac{6}{37}, \frac{35}{37}, -\frac{73}{111}, \frac{22}{111}, \frac{8}{37}, \frac{26}{111}, \frac{32}{111})$ $+ \frac{178}{111}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 2346789, 234789, 2356789, 235789, 24679, 2479, 25679, 2579}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{277}\sqrt{13281}e^{12}, \frac{1}{277}\sqrt{30290}e^{13},$ $\frac{1}{277}\sqrt{57318}e^{17} + \frac{3}{277}\sqrt{1398}e^{45}$	$(\frac{105}{277}, -\frac{72}{277}, -\frac{128}{277}, \frac{69}{277}, \frac{69}{277}, \frac{42}{277}, \frac{33}{277}, -\frac{23}{277}, \frac{138}{277})$ $+ \frac{1}{277}\sqrt{109510}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 1467, 147, 2345679, 234579, 23679, 2379, 34, 346}
931:15	$0, 0, 0, 0, 0, 0, \frac{4}{787}\sqrt{13281}e^{12}, \frac{2}{787}\sqrt{30290}e^{13},$ $\frac{2}{787}\sqrt{57318}e^{17} + \frac{6}{787}\sqrt{1398}e^{45}$	$(\frac{210}{787}, -\frac{144}{787}, -\frac{256}{787}, \frac{371}{787}, -\frac{95}{787}, \frac{84}{787}, \frac{66}{787}, -\frac{46}{787}, \frac{276}{787})$ $+ \frac{2}{787}\sqrt{109510}e^1 \otimes e_3 + \frac{466}{787}e^4 \otimes e_5$	{1467, 147, 1567, 157, 34, 346, 35, 356}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{184}\sqrt{1162}e^{12}, \frac{1}{184}\sqrt{830}e^{13}, \frac{1}{92}\sqrt{1743}e^{17} + \frac{1}{184}\sqrt{1245}e^{45}$	$(\frac{27}{368}, \frac{27}{184}, -\frac{139}{368}, \frac{27}{184}, \frac{27}{184}, \frac{39}{368}, \frac{81}{368}, -\frac{7}{23}, \frac{27}{92})$ $+ \frac{1}{184}\sqrt{11703}e^2 \otimes e_8 + \frac{1}{92}\sqrt{3901}e^1 \otimes e_3$	{124569, 12459, 1269, 129, 2345679, 234579, 23679, 2379}
931:15	$0, 0, 0, 0, 0, 0, \frac{72}{4589}\sqrt{214}e^{12}, \frac{6}{4589}\sqrt{129898}e^{13},$ $\frac{24}{4589}\sqrt{1819}e^{17} + \frac{6}{4589}\sqrt{2782}e^{45}$	$(\frac{66}{353}, -\frac{1068}{4589}, -\frac{864}{4589}, \frac{99}{353}, -\frac{639}{4589}, \frac{1920}{4589}, -\frac{210}{4589}, -\frac{6}{4589}, \frac{648}{4589})$ $+ \frac{1926}{4589}e^4 \otimes e_5 + \frac{6}{4589}\sqrt{167990}e^6 \otimes e_8 + \frac{6}{4589}\sqrt{182542}e^1 \otimes e_2$	{13469, 13569, 1489, 1589}
931:15	$0, 0, 0, 0, 0, 0, \frac{7}{144}\sqrt{230}e^{12}, \frac{1}{144}\sqrt{12558}e^{13}, \frac{1}{36}\sqrt{161}e^{17} + \frac{23}{144}\sqrt{7}e^{45}$	$(-\frac{79}{288}, \frac{109}{144}, -\frac{25}{288}, \frac{5}{48}, \frac{5}{48}, \frac{53}{288}, \frac{139}{288}, -\frac{13}{36}, \frac{5}{24})$ $+ \frac{1}{144}\sqrt{37835}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 146789, 14789, 24567, 2457, 267, 27, 34689, 3489}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{6}e^{12}, \frac{2}{9}\sqrt{3}e^{13}, \frac{2}{9}\sqrt{3}e^{17} + \frac{1}{9}\sqrt{6}e^{45}$	$(0, 0, \frac{1}{3}, 0, 0, -\frac{1}{3}, 0, \frac{1}{3}, 0)$ $+ \frac{2}{9}\sqrt{6}e^1 \otimes e_6 + \frac{2}{9}\sqrt{6}e^3 \otimes e_9$	{12489, 13457, 137, 24679, 34568, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{1091}\sqrt{1135}e^{12}, \frac{8}{1091}\sqrt{1135}e^{13}, \frac{6}{1091}\sqrt{5902}e^{17} + \frac{2}{1091}\sqrt{18614}e^{45}$	$(\frac{160}{1091}, -\frac{294}{1091}, \frac{15}{1091}, \frac{240}{1091}, -\frac{214}{1091}, \frac{480}{1091}, -\frac{134}{1091}, \frac{175}{1091}, \frac{26}{1091}) + \frac{16}{1091}\sqrt{1362}e^1 \otimes e_2 + \frac{2}{1091}\sqrt{87395}e^6 \otimes e_9 + \frac{454}{1091}e^4 \otimes e_5$	{234789, 235789, 2479, 2579}
931:15	$0, 0, 0, 0, 0, 0, \frac{7}{1475}\sqrt{1230}e^{12}, \frac{23}{1475}\sqrt{574}e^{13}, \frac{14}{1475}\sqrt{287}e^{17} + \frac{2}{1475}\sqrt{70889}e^{45}$	$(-\frac{203}{1475}, \frac{319}{1475}, \frac{8}{59}, -\frac{371}{1475}, \frac{284}{1475}, \frac{32}{1475}, \frac{116}{1475}, -\frac{3}{1475}, -\frac{87}{1475}) + \frac{1}{1475}\sqrt{375970}e^5 \otimes e_8 + \frac{2}{1475}\sqrt{86961}e^3 \otimes e_9 + \frac{7}{1475}\sqrt{1066}e^2 \otimes e_6$	{124789, 13456, 259, 3678}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{230}e^{12}, \frac{2}{111}\sqrt{690}e^{13}, \frac{2}{111}\sqrt{345}e^{17} + \frac{23}{111}\sqrt{6}e^{45}$	$(-\frac{4}{37}, \frac{50}{111}, -\frac{7}{111}, \frac{12}{37}, -\frac{10}{111}, -\frac{11}{37}, \frac{38}{111}, -\frac{19}{111}, \frac{26}{111}) + \frac{2}{111}\sqrt{1794}e^2 \otimes e_8 + \frac{46}{111}\sqrt{3}e^4 \otimes e_6$	{12345, 1236, 14789, 156789, 2457, 267, 3489, 35689}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{277}\sqrt{1398}e^{12}, \frac{1}{277}\sqrt{57318}e^{13}, \frac{1}{277}\sqrt{30290}e^{17} + \frac{2}{277}\sqrt{13281}e^{45}$	$(\frac{11}{277}, \frac{69}{277}, -\frac{81}{277}, \frac{163}{277}, -\frac{72}{277}, \frac{42}{277}, \frac{80}{277}, -\frac{70}{277}, \frac{91}{277}) + \frac{1}{277}\sqrt{109510}e^4 \otimes e_8$	{1234679, 123479, 1256789, 125789, 1345, 13456, 168, 18, 235689, 23589, 2469, 249, 3678, 378, 4567, 457}
931:15	$0, 0, 0, 0, 0, 0, \frac{3}{1697}\sqrt{21082}e^{12}, \frac{6}{1697}\sqrt{20833}e^{13}, \frac{24}{1697}\sqrt{166}e^{17} + \frac{9}{1697}\sqrt{5810}e^{45}$	$(-\frac{498}{1697}, \frac{756}{1697}, \frac{507}{1697}, -\frac{120}{1697}, -\frac{120}{1697}, \frac{195}{1697}, \frac{258}{1697}, \frac{9}{1697}, -\frac{240}{1697}) + \frac{12}{1697}\sqrt{7138}e^2 \otimes e_8 + \frac{6}{1697}\sqrt{33781}e^3 \otimes e_9$	{24679, 2479, 34568, 3458, 368, 38}
931:15	$0, 0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{271830}e^{12}, \frac{1}{1819}\sqrt{995070}e^{13}, \frac{3}{1819}\sqrt{52890}e^{17} + \frac{6}{1819}\sqrt{17015}e^{45}$	$(-\frac{55}{1819}, \frac{367}{1819}, \frac{49}{1819}, \frac{609}{1819}, -\frac{352}{1819}, -\frac{566}{1819}, \frac{312}{1819}, -\frac{6}{1819}, \frac{257}{1819}) + \frac{31}{1819}\sqrt{1230}e^4 \otimes e_8 + \frac{4}{1819}\sqrt{54735}e^3 \otimes e_6$	{123479, 1256789, 1345, 168, 23589, 2469, 378, 4567}
931:15	$0, 0, 0, 0, 0, 0, \frac{6}{4097}\sqrt{20247}e^{12}, \frac{6}{4097}\sqrt{72254}e^{13}, \frac{2}{4097}\sqrt{142126}e^{17} + \frac{2}{4097}\sqrt{291398}e^{45}$	$(\frac{477}{4097}, -\frac{317}{4097}, -\frac{161}{4097}, -\frac{473}{4097}, \frac{1110}{4097}, -\frac{955}{4097}, \frac{160}{4097}, \frac{316}{4097}, \frac{637}{4097}) + \frac{16}{4097}\sqrt{7543}e^3 \otimes e_6 + \frac{2}{4097}\sqrt{411689}e^1 \otimes e_2 + \frac{2}{4097}\sqrt{628451}e^5 \otimes e_8$	{1345, 168, 23489, 2569}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{4193}\sqrt{71103}e^{12}, \frac{2}{4193}\sqrt{262614}e^{13}, \frac{10}{4193}\sqrt{346}e^{17} + \frac{6}{4193}\sqrt{20414}e^{45}$	$(\frac{85}{4193}, -\frac{261}{4193}, \frac{255}{4193}, -\frac{111}{599}, \frac{98}{599}, \frac{285}{4193}, -\frac{176}{4193}, \frac{340}{4193}, -\frac{13}{599}) + \frac{2}{4193}\sqrt{165561}e^1 \otimes e_2 + \frac{2}{4193}\sqrt{253099}e^5 \otimes e_8 + \frac{8}{4193}\sqrt{16089}e^3 \otimes e_9$	{14689, 1489, 2368, 238}
931:15	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{6}e^{12}, \frac{4}{21}\sqrt{3}e^{13}, \frac{4}{21}\sqrt{3}e^{17} + \frac{2}{21}\sqrt{6}e^{45}$	$(0, 0, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, 0, \frac{2}{7}, 0) + \frac{2}{7}e^5 \otimes e_4 + \frac{4}{21}\sqrt{6}e^1 \otimes e_6 + \frac{4}{21}\sqrt{6}e^3 \otimes e_9$	{12489, 12589, 24679, 25679}
931:16	$0, 0, 0, 0, 0, 0, \frac{4}{1165}\sqrt{2805}e^{12}, \frac{102}{1165}\sqrt{22}e^{13}, \frac{4}{1165}\sqrt{7106}e^{27} + \frac{4}{1165}\sqrt{7106}e^{45}$	$(\frac{24}{233}, -\frac{96}{1165}, \frac{302}{1165}, -\frac{223}{1165}, \frac{151}{1165}, -\frac{254}{1165}, \frac{24}{1165}, \frac{422}{1165}, -\frac{72}{1165}) + \frac{2}{1165}\sqrt{69190}e^1 \otimes e_6 + \frac{374}{1165}e^5 \otimes e_4 + \frac{4}{1165}\sqrt{23001}e^3 \otimes e_9$	{12489, 12589, 14789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{806}e^{12}, \frac{4}{157}\sqrt{186}e^{13}, \frac{4}{157}\sqrt{186}e^{27} + \frac{1}{157}\sqrt{806}e^{45}$	$(-\frac{44}{157}, \frac{26}{157}, \frac{39}{157}, \frac{4}{157}, \frac{4}{157}, \frac{17}{157}, -\frac{18}{157}, -\frac{5}{157}, \frac{8}{157}) + \frac{2}{157}\sqrt{1085}e^2 \otimes e_8 + \frac{2}{157}\sqrt{1085}e^3 \otimes e_9$	{146789, 14789, 34568, 3458, 368, 38}
931:16	$0, 0, 0, 0, 0, 0, \frac{7}{1479}\sqrt{8206}e^{12}, \frac{7}{1479}\sqrt{682}e^{13}, \frac{14}{1479}\sqrt{1111}e^{27} + \frac{308}{1479}e^{45}$	$(\frac{63}{493}, \frac{7}{87}, -\frac{350}{1479}, \frac{49}{1479}, \frac{126}{493}, \frac{140}{493}, \frac{308}{1479}, -\frac{161}{1479}, \frac{427}{1479}) + \frac{28}{1479}\sqrt{627}e^1 \otimes e_3 + \frac{7}{1479}\sqrt{12254}e^2 \otimes e_6 + \frac{7}{1479}\sqrt{7238}e^5 \otimes e_8$	{12489, 146789, 2378, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{1131}e^{12}, \frac{1}{41}\sqrt{195}e^{13}, \frac{1}{41}\sqrt{1131}e^{27} + \frac{1}{41}\sqrt{195}e^{45}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{19}{82}, \frac{19}{82}, \frac{19}{82}, -\frac{27}{41}, \frac{7}{41}, \frac{9}{82}, \frac{19}{41}) + \frac{2}{41}\sqrt{663}e^2 \otimes e_6$	{1234589, 12389, 12459, 129, 13456789, 136789, 145679, 1679, 2347, 2478, 346, 468}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{5}e^{13}, \frac{2}{5}e^{27} + \frac{2}{5}e^{45}$	$(\frac{1}{10}, \frac{1}{10}, \frac{3}{20}, \frac{19}{20}, -\frac{13}{20}, \frac{1}{5}, \frac{1}{5}, \frac{1}{4}, \frac{3}{10}) + \frac{8}{5}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 134679, 13479, 135679, 13579, 146789, 14789, 156789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{47}e^{12}, \frac{1}{21}\sqrt{47}e^{13}, \frac{1}{42}\sqrt{987}e^{27} + \frac{1}{42}\sqrt{987}e^{45}$	$(\frac{2}{21}, -\frac{3}{28}, \frac{1}{7}, -\frac{5}{84}, -\frac{5}{84}, 1, -\frac{1}{84}, \frac{5}{21}, -\frac{5}{42}) + \frac{1}{21}\sqrt{799}e^6 \otimes e_9$	{12349, 12489, 13479, 14789, 2345678, 23678, 24567, 267, 34568, 368, 456, 6}
931:16	$0, 0, 0, 0, 0, 0, \frac{7}{2153}\sqrt{3154}e^{12}, \frac{14}{2153}\sqrt{4370}e^{13}, \frac{266}{2153}\sqrt{5}e^{27} + \frac{7}{2153}\sqrt{29678}e^{45}$	$(-\frac{166}{2153}, \frac{484}{2153}, -\frac{249}{2153}, \frac{286}{2153}, \frac{516}{2153}, -\frac{645}{2153}, \frac{318}{2153}, -\frac{415}{2153}, \frac{802}{2153}) + \frac{14}{2153}\sqrt{10317}e^5 \otimes e_8 + \frac{28}{2153}\sqrt{2033}e^4 \otimes e_6$	{1235679, 124789, 13569, 1489, 2368, 245, 3678, 457}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{617}\sqrt{295}e^{12}, \frac{2}{617}\sqrt{24662}e^{13}, \frac{2}{617}\sqrt{1298}e^{27} + \frac{2}{617}\sqrt{4366}e^{45}$	$(-\frac{20}{617}, \frac{16}{617}, \frac{71}{617}, -\frac{98}{617}, \frac{110}{617}, -\frac{79}{617}, -\frac{4}{617}, \frac{51}{617}, \frac{12}{617}) + \frac{1}{617}\sqrt{15222}e^1 \otimes e_6 + \frac{1}{617}\sqrt{6785}e^3 \otimes e_9 + \frac{4}{617}\sqrt{1534}e^5 \otimes e_8$	{123457, 1345, 2569, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{177}\sqrt{2622}e^{12}, \frac{2}{59}\sqrt{46}e^{13}, \frac{2}{177}\sqrt{345}e^{27} + \frac{2}{177}\sqrt{345}e^{45}$	$(\frac{76}{177}, -\frac{23}{177}, -\frac{62}{177}, \frac{28}{59}, -\frac{18}{59}, \frac{20}{177}, \frac{53}{177}, \frac{14}{177}, \frac{10}{59})$ $+ \frac{46}{59}e^4 \otimes e_5 + \frac{4}{177}\sqrt{1518}e^1 \otimes e_3$	{12469, 1249, 12569, 1259, 14679, 1479, 15679, 1579}
931:16	$0, 0, 0, 0, 0, 0, \frac{6}{961}\sqrt{4342}e^{12}, \frac{4}{961}\sqrt{3841}e^{13}, \frac{12}{961}\sqrt{835}e^{27} + \frac{2}{961}\sqrt{5010}e^{45}$	$(\frac{48}{961}, \frac{96}{961}, -\frac{286}{961}, -\frac{47}{961}, \frac{287}{961}, \frac{90}{961}, \frac{144}{961}, -\frac{238}{961}, \frac{240}{961})$ $+ \frac{334}{961}e^5 \otimes e_4 + \frac{4}{961}\sqrt{11857}e^1 \otimes e_3 + \frac{4}{961}\sqrt{17535}e^2 \otimes e_8$	{3468, 348, 3568, 358}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{253}e^{12}, \frac{1}{39}\sqrt{253}e^{13}, \frac{1}{39}\sqrt{253}e^{27} + \frac{1}{39}\sqrt{253}e^{45}$	$(-\frac{2}{13}, \frac{11}{39}, -\frac{1}{78}, \frac{11}{26}, -\frac{1}{78}, -\frac{4}{13}, \frac{5}{39}, -\frac{1}{6}, \frac{16}{39})$ $+ \frac{1}{39}\sqrt{782}e^2 \otimes e_6 + \frac{1}{39}\sqrt{782}e^4 \otimes e_8$	{12349, 12589, 134679, 156789, 2378, 2457, 368, 456}
931:16	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{209}e^{12}, \frac{2}{157}\sqrt{95}e^{13}, \frac{2}{157}\sqrt{665}e^{27} + \frac{2}{157}\sqrt{665}e^{45}$	$(\frac{44}{157}, -\frac{25}{157}, -\frac{32}{157}, \frac{35}{157}, -\frac{41}{157}, \frac{70}{157}, \frac{19}{157}, \frac{12}{157}, -\frac{6}{157})$ $+ \frac{14}{157}\sqrt{38}e^1 \otimes e_3 + \frac{2}{157}\sqrt{2109}e^6 \otimes e_9 + \frac{76}{157}e^4 \otimes e_5$	{1249, 1259, 1479, 1579}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{389}\sqrt{7161}e^{12}, \frac{2}{389}\sqrt{7161}e^{13}, \frac{7}{389}\sqrt{682}e^{27} + \frac{1}{389}\sqrt{14322}e^{45}$	$(-\frac{81}{389}, \frac{121}{389}, -\frac{15}{389}, \frac{143}{389}, \frac{18}{389}, -\frac{74}{389}, \frac{40}{389}, -\frac{96}{389}, \frac{161}{389})$ $+ \frac{1}{389}\sqrt{92442}e^2 \otimes e_8 + \frac{5}{389}\sqrt{2170}e^4 \otimes e_6$	{12349, 123569, 14789, 156789, 2457, 267, 3458, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1337}\sqrt{23302}e^{12}, \frac{2}{1337}\sqrt{23546}e^{13}, \frac{4}{1337}\sqrt{854}e^{27} + \frac{122}{1337}\sqrt{7}e^{45}$	$(-\frac{1}{7}, \frac{139}{1337}, \frac{209}{1337}, -\frac{53}{1337}, \frac{20}{1337}, \frac{191}{1337}, -\frac{25}{1337}, -\frac{52}{1337}, \frac{18}{1337}, \frac{87}{1337})$ $+ \frac{183}{1337}\sqrt{2}e^4 \otimes e_6 + \frac{1}{1337}\sqrt{114070}e^5 \otimes e_8 + \frac{1}{1337}\sqrt{120902}e^3 \otimes e_9$	{123457, 1345, 2569, 5679}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1641}\sqrt{261058}e^{12}, \frac{16}{1641}\sqrt{1286}e^{13}, \frac{2}{1641}\sqrt{158821}e^{27} + \frac{1}{1641}\sqrt{204474}e^{45}$	$(-\frac{88}{547}, \frac{56}{547}, \frac{715}{1641}, \frac{12}{547}, \frac{12}{547}, -\frac{475}{1641}, -\frac{32}{547}, \frac{451}{1641}, \frac{24}{547})$ $+ \frac{2}{1641}\sqrt{215405}e^2 \otimes e_6 + \frac{4}{1641}\sqrt{62371}e^3 \otimes e_9$	{12489, 146789, 234578, 2378, 34568, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{50}\sqrt{518}e^{12}, \frac{1}{50}\sqrt{518}e^{13}, \frac{1}{50}\sqrt{111}e^{27} + \frac{1}{50}\sqrt{111}e^{45}$	$(\frac{7}{25}, -\frac{1}{20}, -\frac{23}{50}, \frac{9}{100}, \frac{9}{100}, \frac{14}{25}, \frac{23}{100}, -\frac{9}{50}, \frac{9}{50})$ $+ \frac{1}{25}\sqrt{407}e^1 \otimes e_3 + \frac{1}{25}\sqrt{407}e^6 \otimes e_8$	{12489, 14789, 234578, 2378, 3458, 38}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{195}e^{12}, \frac{1}{41}\sqrt{1131}e^{13}, \frac{1}{41}\sqrt{195}e^{27} + \frac{1}{41}\sqrt{1131}e^{45}$	$(-\frac{5}{41}, \frac{12}{41}, -\frac{15}{82}, \frac{53}{82}, -\frac{15}{82}, \frac{7}{41}, \frac{7}{41}, -\frac{25}{82}, \frac{19}{41})$ $+ \frac{2}{41}\sqrt{663}e^4 \otimes e_8$	{1234679, 123479, 1256789, 125789, 13469, 1349, 15689, 1589, 2368, 238, 245, 2456, 3678, 378, 4567, 457}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{137}\sqrt{518}e^{12}, \frac{2}{137}\sqrt{518}e^{13}, \frac{2}{137}\sqrt{111}e^{27} + \frac{2}{137}\sqrt{111}e^{45}$	$(\frac{28}{137}, -\frac{5}{137}, -\frac{46}{137}, \frac{46}{137}, -\frac{28}{137}, \frac{56}{137}, \frac{23}{137}, -\frac{18}{137}, \frac{18}{137})$ $+ \frac{4}{137}\sqrt{407}e^1 \otimes e_3 + \frac{4}{137}\sqrt{407}e^6 \otimes e_8 + \frac{74}{137}e^4 \otimes e_5$	{12489, 12589, 14789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{266}{2153}\sqrt{5}e^{12}, \frac{7}{2153}\sqrt{29678}e^{13}, \frac{7}{2153}\sqrt{3154}e^{27} + \frac{14}{2153}\sqrt{4370}e^{45}$	$(-\frac{380}{2153}, \frac{484}{2153}, \frac{286}{2153}, \frac{837}{2153}, -\frac{249}{2153}, -\frac{645}{2153}, \frac{104}{2153}, -\frac{94}{2153}, \frac{588}{2153})$ $+ \frac{14}{2153}\sqrt{10317}e^4 \otimes e_8 + \frac{28}{2153}\sqrt{2033}e^3 \otimes e_6$	{123479, 1256789, 1349, 15689, 238, 2456, 378, 4567}
931:16	$0, 0, 0, 0, 0, 0, \frac{8}{329}\sqrt{66}e^{12}, \frac{4}{987}\sqrt{5918}e^{13}, \frac{4}{987}\sqrt{2618}e^{27} + \frac{4}{987}\sqrt{10626}e^{45}$	$(\frac{36}{329}, -\frac{20}{987}, -\frac{244}{987}, \frac{72}{329}, -\frac{148}{987}, \frac{20}{47}, \frac{88}{987}, -\frac{136}{987}, \frac{68}{987})$ $+ \frac{16}{987}\sqrt{1001}e^4 \otimes e_8 + \frac{4}{987}\sqrt{14366}e^6 \otimes e_9 + \frac{8}{987}\sqrt{2233}e^1 \otimes e_3$	{12589, 15789, 23678, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{987}e^{12}, \frac{2}{131}\sqrt{987}e^{13}, \frac{4}{131}\sqrt{47}e^{27} + \frac{4}{131}\sqrt{47}e^{45}$	$(\frac{42}{131}, -\frac{9}{131}, -\frac{5}{131}, \frac{59}{131}, -\frac{35}{131}, -\frac{52}{131}, \frac{33}{131}, \frac{37}{131}, \frac{24}{131})$ $+ \frac{4}{131}\sqrt{799}e^1 \otimes e_6 + \frac{94}{131}e^4 \otimes e_5$	{12349, 12359, 12489, 12589, 13479, 13579, 14789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1941}\sqrt{618662}e^{12}, \frac{2}{1941}\sqrt{59719}e^{13}, \frac{2}{1941}\sqrt{101321}e^{27} + \frac{1}{1941}\sqrt{119438}e^{45}$	$(\frac{116}{1941}, \frac{232}{1941}, -\frac{185}{647}, \frac{100}{1941}, \frac{160}{647}, -\frac{191}{1941}, \frac{116}{647}, -\frac{439}{1941}, \frac{580}{1941})$ $+ \frac{2}{1941}\sqrt{127490}e^5 \otimes e_6 + \frac{2}{1941}\sqrt{189893}e^1 \otimes e_3 + \frac{2}{1941}\sqrt{270413}e^2 \otimes e_8$	{146789, 15789, 3458, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{3}{17}\sqrt{3}e^{12}, \frac{9}{17}\sqrt{2}e^{13}, \frac{3}{34}\sqrt{51}e^{27} + \frac{3}{34}\sqrt{51}e^{45}$	$(-\frac{2}{17}, -\frac{1}{68}, \frac{11}{17}, -\frac{5}{68}, -\frac{5}{68}, \frac{3}{17}, -\frac{9}{68}, \frac{9}{17}, -\frac{5}{34})$ $+ \frac{3}{17}\sqrt{42}e^3 \otimes e_9$	{1234567, 123457, 12367, 1237, 13, 1345, 13456, 136, 2469, 249, 4679, 479}
931:16	$0, 0, 0, 0, 0, 0, \frac{6}{95}\sqrt{51}e^{12}, \frac{6}{95}\sqrt{51}e^{13}, \frac{36}{95}\sqrt{2}e^{27} + \frac{12}{95}\sqrt{3}e^{45}$	$(-\frac{22}{95}, \frac{27}{95}, -\frac{1}{19}, \frac{43}{95}, -\frac{11}{95}, \frac{12}{95}, \frac{1}{19}, -\frac{27}{95}, \frac{32}{95})$ $+ \frac{12}{95}\sqrt{42}e^2 \otimes e_8 + \frac{54}{95}e^4 \otimes e_5$	{2467, 247, 2567, 257, 3468, 348, 3568, 358}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1511}\sqrt{15562}e^{12}, \frac{1}{1511}\sqrt{222386}e^{13}, \frac{2}{1511}\sqrt{25853}e^{27} + \frac{2}{1511}\sqrt{45682}e^{45}$	$(-\frac{275}{1511}, \frac{175}{1511}, \frac{326}{1511}, -\frac{227}{1511}, \frac{302}{1511}, -\frac{76}{1511}, -\frac{100}{1511}, \frac{51}{1511}, \frac{75}{1511})$ $+ \frac{1}{1511}\sqrt{106926}e^2 \otimes e_6 + \frac{23}{1511}\sqrt{502}e^5 \otimes e_8 + \frac{4}{1511}\sqrt{19829}e^3 \otimes e_9$	{123457, 13456, 259, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:16	$0, 0, 0, 0, 0, \frac{1}{397}\sqrt{5010}e^{12}, \frac{6}{397}\sqrt{835}e^{13},$ $\frac{2}{397}\sqrt{3841}e^{27} + \frac{3}{397}\sqrt{4342}e^{45}$	$(-\frac{30}{397}, \frac{14}{397}, \frac{165}{397}, \frac{70}{397}, -\frac{72}{397}, -\frac{97}{397}, -\frac{16}{397}, \frac{135}{397}, -\frac{2}{397})$ $+ \frac{2}{397}\sqrt{11857}e^4 \otimes e_6 + \frac{2}{397}\sqrt{17535}e^3 \otimes e_9$	{123457, 12367, 1345, 136, 249, 2569, 479, 5679}
931:16	$0, 0, 0, 0, 0, \frac{2}{489}\sqrt{2805}e^{12}, \frac{17}{489}\sqrt{22}e^{13},$ $\frac{2}{489}\sqrt{7106}e^{27} + \frac{2}{489}\sqrt{7106}e^{45}$	$(\frac{20}{163}, -\frac{16}{163}, \frac{151}{489}, -\frac{6}{163}, -\frac{6}{163}, -\frac{127}{489}, \frac{4}{163}, \frac{211}{489}, -\frac{12}{163})$ $+ \frac{1}{489}\sqrt{69190}e^1 \otimes e_6 + \frac{2}{489}\sqrt{23001}e^3 \otimes e_9$	{12489, 14789, 2345678, 23678, 34568, 368}
931:16	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{55}e^{12}, \frac{16}{177}\sqrt{33}e^{13}, \frac{4}{177}\sqrt{231}e^{27} + \frac{4}{177}\sqrt{231}e^{45}$	$(-\frac{10}{59}, \frac{2}{59}, \frac{16}{59}, -\frac{3}{59}, -\frac{3}{59}, \frac{28}{59}, -\frac{8}{59}, \frac{6}{59}, -\frac{6}{59})$ $+ \frac{2}{177}\sqrt{2145}e^6 \otimes e_8 + \frac{2}{59}\sqrt{341}e^3 \otimes e_9$	{1234567, 12367, 13456, 136, 2469, 4679}
931:16	$0, 0, 0, 0, 0, \frac{7}{2153}\sqrt{29678}e^{12}, \frac{266}{2153}\sqrt{5}e^{13},$ $\frac{14}{2153}\sqrt{4370}e^{27} + \frac{7}{2153}\sqrt{3154}e^{45}$	$(\frac{476}{2153}, \frac{56}{2153}, -\frac{455}{2153}, \frac{294}{2153}, \frac{294}{2153}, -\frac{875}{2153}, \frac{532}{2153}, \frac{21}{2153}, \frac{588}{2153})$ $+ \frac{14}{2153}\sqrt{10317}e^2 \otimes e_6 + \frac{28}{2153}\sqrt{2033}e^1 \otimes e_3$	{12459, 129, 145679, 1679, 2347, 346}
931:16	$0, 0, 0, 0, 0, \frac{1}{54}\sqrt{345}e^{12}, \frac{1}{54}\sqrt{345}e^{13}, \frac{1}{18}\sqrt{46}e^{27} + \frac{1}{54}\sqrt{2622}e^{45}$	$(\frac{5}{54}, \frac{7}{36}, \frac{5}{36}, \frac{35}{54}, -\frac{1}{6}, -\frac{17}{27}, \frac{31}{108}, \frac{25}{108}, \frac{13}{27})$ $+ \frac{1}{27}\sqrt{1518}e^4 \otimes e_6$	{12345, 1236, 12458, 1268, 13457, 1367, 14578, 1678, 234789, 2356789, 2479, 25679, 3489, 35689, 49, 569}
931:16	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{46}e^{12}, \frac{2}{177}\sqrt{2622}e^{13}, \frac{2}{177}\sqrt{345}e^{27} + \frac{2}{177}\sqrt{345}e^{45}$	$(-\frac{4}{59}, \frac{7}{59}, \frac{70}{177}, \frac{28}{59}, -\frac{18}{59}, -\frac{68}{177}, \frac{3}{59}, \frac{58}{177}, \frac{10}{59})$ $+ \frac{46}{59}e^4 \otimes e_5 + \frac{4}{177}\sqrt{1518}e^3 \otimes e_6$	{23489, 23589, 2469, 2569, 34789, 35789, 4679, 5679}
931:16	$0, 0, 0, 0, 0, \frac{1}{497}\sqrt{15330}e^{12}, \frac{2}{497}\sqrt{16863}e^{13},$ $\frac{4}{497}\sqrt{438}e^{27} + \frac{1}{497}\sqrt{45114}e^{45}$	$(\frac{10}{71}, \frac{36}{497}, -\frac{99}{497}, \frac{190}{497}, -\frac{48}{497}, -\frac{149}{497}, \frac{106}{497}, -\frac{29}{497}, \frac{2}{7})$ $+ \frac{2}{497}\sqrt{26061}e^4 \otimes e_8 + \frac{6}{497}\sqrt{2482}e^1 \otimes e_6$	{12345, 128, 13457, 178, 2356789, 24679, 35689, 469}
931:16	$0, 0, 0, 0, 0, \frac{3}{397}\sqrt{4342}e^{12}, \frac{2}{397}\sqrt{3841}e^{13},$ $\frac{6}{397}\sqrt{835}e^{27} + \frac{1}{397}\sqrt{5010}e^{45}$	$(\frac{24}{397}, \frac{48}{397}, -\frac{143}{397}, \frac{60}{397}, \frac{60}{397}, \frac{45}{397}, \frac{72}{397}, -\frac{119}{397}, \frac{120}{397})$ $+ \frac{2}{397}\sqrt{11857}e^1 \otimes e_3 + \frac{2}{397}\sqrt{17535}e^2 \otimes e_8$	{1456789, 145789, 16789, 1789, 3468, 348}
931:16	$0, 0, 0, 0, 0, \frac{1}{149}\sqrt{5974}e^{12}, \frac{2}{149}\sqrt{206}e^{13}, \frac{2}{149}\sqrt{206}e^{27} + \frac{1}{149}\sqrt{5974}e^{45}$	$(\frac{58}{149}, -\frac{8}{149}, -\frac{45}{149}, \frac{54}{149}, -\frac{12}{149}, -\frac{49}{149}, \frac{50}{149}, \frac{13}{149}, \frac{42}{149})$ $+ \frac{2}{149}\sqrt{3399}e^1 \otimes e_3 + \frac{2}{149}\sqrt{3399}e^4 \otimes e_6$	{1245, 126, 1457, 167, 23479, 235679, 349, 3569}
931:16	$0, 0, 0, 0, 0, \frac{24}{1123}\sqrt{238}e^{12}, \frac{12}{1123}\sqrt{426}e^{13},$ $\frac{12}{1123}\sqrt{1086}e^{27} + \frac{12}{1123}\sqrt{182}e^{45}$	$(\frac{24}{1123}, \frac{48}{1123}, -\frac{264}{1123}, \frac{60}{1123}, \frac{60}{1123}, \frac{408}{1123}, \frac{72}{1123}, -\frac{240}{1123}, \frac{120}{1123})$ $+ \frac{132}{1123}\sqrt{10}e^6 \otimes e_9 + \frac{24}{1123}\sqrt{263}e^1 \otimes e_3 + \frac{48}{1123}\sqrt{113}e^2 \otimes e_8$	{14789, 34568, 368}
931:16	$0, 0, 0, 0, 0, \frac{2}{59}\sqrt{46}e^{12}, \frac{2}{177}\sqrt{2622}e^{13}, \frac{2}{177}\sqrt{345}e^{27} + \frac{2}{177}\sqrt{345}e^{45}$	$(-\frac{4}{59}, \frac{7}{59}, -\frac{6}{59}, \frac{28}{59}, -\frac{18}{59}, \frac{36}{59}, \frac{3}{59}, -\frac{10}{59}, \frac{10}{59})$ $+ \frac{46}{59}e^4 \otimes e_5 + \frac{4}{177}\sqrt{1518}e^6 \otimes e_8$	{23489, 23589, 2469, 2569, 34789, 35789, 4679, 5679}
931:16	$0, 0, 0, 0, 0, \frac{4}{119}\sqrt{209}e^{12}, \frac{2}{119}\sqrt{95}e^{13}, \frac{2}{119}\sqrt{665}e^{27} + \frac{2}{119}\sqrt{665}e^{45}$	$(\frac{44}{119}, -\frac{25}{119}, -\frac{32}{119}, -\frac{3}{119}, -\frac{3}{119}, \frac{10}{17}, \frac{19}{119}, \frac{12}{119}, -\frac{6}{119})$ $+ \frac{2}{119}\sqrt{2109}e^6 \otimes e_9 + \frac{2}{17}\sqrt{38}e^1 \otimes e_3$	{1249, 1479, 234567, 2367, 3456, 36}
931:16	$0, 0, 0, 0, 0, \frac{4}{497}\sqrt{438}e^{12}, \frac{1}{497}\sqrt{45114}e^{13},$ $\frac{4}{497}\sqrt{15330}e^{27} + \frac{2}{497}\sqrt{16863}e^{45}$	$(-\frac{32}{497}, \frac{36}{497}, -\frac{48}{497}, \frac{139}{497}, -\frac{99}{497}, \frac{37}{497}, \frac{4}{497}, -\frac{80}{497}, \frac{40}{497})$ $+ \frac{2}{497}\sqrt{26061}e^4 \otimes e_8 + \frac{6}{497}\sqrt{2482}e^6 \otimes e_9$	{1234567, 12678, 13456, 168, 23589, 249, 35789, 479}
931:16	$0, 0, 0, 0, 0, \frac{4}{961}\sqrt{3841}e^{12}, \frac{6}{961}\sqrt{4342}e^{13},$ $\frac{12}{961}\sqrt{835}e^{27} + \frac{2}{961}\sqrt{5010}e^{45}$	$(-\frac{236}{961}, \frac{238}{961}, \frac{140}{961}, -\frac{47}{961}, \frac{287}{961}, -\frac{194}{961}, \frac{2}{961}, -\frac{96}{961}, \frac{240}{961})$ $+ \frac{334}{961}e^5 \otimes e_4 + \frac{4}{961}\sqrt{11857}e^3 \otimes e_6 + \frac{4}{961}\sqrt{17535}e^2 \otimes e_8$	{2467, 2567, 348, 358}
931:16	$0, 0, 0, 0, 0, \frac{4}{131}\sqrt{47}e^{12}, \frac{4}{131}\sqrt{47}e^{13}, \frac{2}{131}\sqrt{987}e^{27} + \frac{2}{131}\sqrt{987}e^{45}$	$(\frac{8}{131}, -\frac{9}{131}, \frac{12}{131}, \frac{42}{131}, -\frac{52}{131}, \frac{84}{131}, -\frac{1}{131}, \frac{20}{131}, -\frac{10}{131})$ $+ \frac{4}{131}\sqrt{799}e^6 \otimes e_9 + \frac{94}{131}e^4 \otimes e_5$	{12349, 12359, 12489, 12589, 13479, 13579, 14789, 15789}
931:16	$0, 0, 0, 0, 0, \frac{3}{34}\sqrt{51}e^{12}, \frac{3}{34}\sqrt{51}e^{13}, \frac{9}{17}\sqrt{2}e^{27} + \frac{3}{17}\sqrt{3}e^{45}$	$(-\frac{11}{34}, \frac{27}{68}, -\frac{5}{68}, \frac{4}{17}, \frac{4}{17}, \frac{3}{17}, \frac{5}{68}, -\frac{27}{68}, \frac{8}{17})$ $+ \frac{3}{17}\sqrt{42}e^2 \otimes e_8$	{1234569, 123459, 12369, 1239, 1456789, 145789, 16789, 1789, 2467, 247, 3468, 348}
931:16	$0, 0, 0, 0, 0, \frac{2}{121}\sqrt{1131}e^{12}, \frac{2}{121}\sqrt{195}e^{13}, \frac{2}{121}\sqrt{1131}e^{27} + \frac{2}{121}\sqrt{195}e^{45}$	$(-\frac{10}{121}, \frac{24}{121}, \frac{19}{121}, \frac{58}{121}, -\frac{20}{121}, -\frac{54}{121}, \frac{14}{121}, \frac{9}{121}, \frac{38}{121})$ $+ \frac{4}{121}\sqrt{663}e^2 \otimes e_6 + \frac{78}{121}e^4 \otimes e_5$	{2347, 2357, 2478, 2578, 346, 356, 468, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46e^{12}}, \frac{1}{54}\sqrt{2622e^{13}}, \frac{1}{54}\sqrt{345e^{27}} + \frac{1}{54}\sqrt{345e^{45}}$	$(-\frac{1}{9}, \frac{7}{36}, \frac{35}{54}, \frac{5}{36}, \frac{5}{36}, -\frac{17}{27}, \frac{1}{12}, \frac{29}{54}, \frac{5}{18})$ $+ \frac{1}{27}\sqrt{1518e^3} \otimes e_6$	{123457, 1237, 1245678, 12678, 13, 1345, 14568, 168, 23489, 2469, 34789, 4679}
931:16	$0, 0, 0, 0, 0, 0, \frac{14}{5237}\sqrt{29678e^{12}}, \frac{532}{5237}\sqrt{5e^{13}},$ $\frac{28}{5237}\sqrt{4370e^{27}} + \frac{14}{5237}\sqrt{3154e^{45}}$	$(\frac{952}{5237}, \frac{112}{5237}, -\frac{910}{5237}, -\frac{343}{5237}, \frac{1519}{5237}, -\frac{1750}{5237}, \frac{1064}{5237}, \frac{42}{5237}, \frac{1176}{5237})$ $+ \frac{1862}{5237}e^5 \otimes e_4 + \frac{28}{5237}\sqrt{10317e^2} \otimes e_6 + \frac{56}{5237}\sqrt{2033e^1} \otimes e_3$	{2347, 2357, 346, 356}
931:16	$0, 0, 0, 0, 0, 0, \frac{12}{95}\sqrt{3e^{12}}, \frac{36}{95}\sqrt{2e^{13}}, \frac{6}{95}\sqrt{51e^{27}} + \frac{6}{95}\sqrt{51e^{45}}$	$(-\frac{8}{95}, -\frac{1}{95}, \frac{44}{95}, \frac{22}{95}, -\frac{32}{95}, \frac{12}{95}, -\frac{9}{95}, \frac{36}{95}, -\frac{2}{19})$ $+ \frac{12}{95}\sqrt{42e^3} \otimes e_9 + \frac{54}{95}e^4 \otimes e_5$	{2469, 249, 2569, 259, 4679, 479, 5679, 579}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{345}\sqrt{806e^{12}}, \frac{8}{345}\sqrt{186e^{13}}, \frac{8}{345}\sqrt{186e^{27}} + \frac{2}{345}\sqrt{806e^{45}}$	$(-\frac{88}{345}, \frac{52}{345}, \frac{26}{115}, -\frac{1}{15}, \frac{13}{115}, \frac{34}{345}, -\frac{12}{115}, -\frac{2}{69}, \frac{16}{345})$ $+ \frac{4}{345}\sqrt{1085e^2} \otimes e_8 + \frac{4}{345}\sqrt{1085e^3} \otimes e_9 + \frac{62}{345}e^5 \otimes e_4$	{146789, 14789, 156789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{2622e^{12}}, \frac{1}{18}\sqrt{46e^{13}}, \frac{1}{54}\sqrt{345e^{27}} + \frac{1}{54}\sqrt{345e^{45}}$	$(\frac{19}{27}, -\frac{23}{108}, -\frac{31}{54}, \frac{5}{36}, \frac{5}{36}, \frac{27}{54}, \frac{53}{108}, \frac{7}{54}, \frac{5}{18})$ $+ \frac{1}{27}\sqrt{1518e^1} \otimes e_3$	{12469, 1249, 14679, 1479, 234567, 23457, 2367, 237, 3, 345, 3456, 36}
931:16	$0, 0, 0, 0, 0, 0, \frac{4}{1165}\sqrt{7106e^{12}}, \frac{4}{1165}\sqrt{7106e^{13}},$ $\frac{102}{1165}\sqrt{22e^{27}} + \frac{4}{1165}\sqrt{2805e^{45}}$	$(-\frac{188}{1165}, \frac{30}{233}, -\frac{36}{1165}, \frac{243}{1165}, -\frac{131}{1165}, \frac{486}{1165}, -\frac{38}{1165}, -\frac{224}{1165}, \frac{112}{1165})$ $+ \frac{2}{1165}\sqrt{69190e^6} \otimes e_9 + \frac{374}{1165}e^4 \otimes e_5 + \frac{4}{1165}\sqrt{23001e^2} \otimes e_8$	{12349, 12359, 14789, 15789}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{3925}\sqrt{261058e^{12}}, \frac{32}{3925}\sqrt{1286e^{13}},$ $\frac{4}{3925}\sqrt{158821e^{27}} + \frac{2}{3925}\sqrt{204474e^{45}}$	$(-\frac{528}{3925}, \frac{336}{3925}, \frac{286}{785}, -\frac{571}{3925}, \frac{143}{785}, -\frac{38}{157}, -\frac{192}{3925}, \frac{902}{3925}, \frac{144}{3925})$ $+ \frac{1286}{3925}e^5 \otimes e_4 + \frac{4}{3925}\sqrt{215405e^2} \otimes e_6 + \frac{8}{3925}\sqrt{62371e^3} \otimes e_9$	{12489, 12589, 146789, 156789}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1981}\sqrt{80238e^{12}}, \frac{6}{1981}\sqrt{9019e^{13}},$ $\frac{2}{1981}\sqrt{74329e^{27}} + \frac{3}{1981}\sqrt{18038e^{45}}$	$(-\frac{66}{283}, \frac{302}{1981}, \frac{453}{1981}, -\frac{72}{1981}, \frac{214}{1981}, -\frac{97}{1981}, -\frac{160}{1981}, -\frac{9}{1981}, \frac{142}{1981})$ $+ \frac{12}{1981}\sqrt{3110e^2} \otimes e_8 + \frac{2}{1981}\sqrt{122223e^3} \otimes e_9 + \frac{8}{1981}\sqrt{44473e^5} \otimes e_6$	{146789, 15789, 3458, 368}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46e^{12}}, \frac{1}{54}\sqrt{2622e^{13}}, \frac{1}{54}\sqrt{345e^{27}} + \frac{1}{54}\sqrt{345e^{45}}$	$(-\frac{1}{9}, \frac{7}{36}, -\frac{1}{6}, \frac{5}{36}, \frac{5}{36}, 1, \frac{1}{12}, -\frac{5}{18}, \frac{5}{18})$ $+ \frac{1}{27}\sqrt{1518e^6} \otimes e_8$	{1234567, 12367, 124578, 1278, 13456, 136, 1458, 18, 23489, 2469, 34789, 4679}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{42}\sqrt{987e^{12}}, \frac{1}{42}\sqrt{987e^{13}}, \frac{1}{21}\sqrt{47e^{27}} + \frac{1}{21}\sqrt{47e^{45}}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{5}{84}, \frac{1}{7}, \frac{1}{7}, -\frac{13}{21}, \frac{11}{28}, \frac{37}{84}, \frac{2}{7})$ $+ \frac{1}{21}\sqrt{799e^1} \otimes e_6$	{12349, 12489, 13479, 14789, 2345678, 23678, 24567, 267, 34568, 368, 456, 6}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{7e^{12}}, \frac{1}{8}\sqrt{7e^{13}}, \frac{1}{8}\sqrt{6e^{27}} + \frac{1}{8}e^{45}$	$(0, \frac{1}{8}, -\frac{1}{8}, 0, \frac{1}{4}, -\frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4})$ $+ \frac{1}{4}e^5 \otimes e_4 + \frac{1}{8}\sqrt{11e^1} \otimes e_6 + \frac{1}{8}\sqrt{14e^2} \otimes e_8$	{2467, 2567, 3468, 3568}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{1601}\sqrt{330990e^{12}}, \frac{2}{1601}\sqrt{142426e^{13}},$ $\frac{6}{1601}\sqrt{3009e^{27}} + \frac{17}{1601}\sqrt{2478e^{45}}$	$(\frac{330}{1601}, \frac{84}{1601}, -\frac{673}{1601}, \frac{660}{1601}, -\frac{162}{1601}, \frac{195}{1601}, \frac{414}{1601}, -\frac{343}{1601}, \frac{498}{1601})$ $+ \frac{2}{1601}\sqrt{412233e^4} \otimes e_8 + \frac{4}{1601}\sqrt{73219e^1} \otimes e_3$	{1268, 128, 1678, 178, 2356789, 235789, 35689, 3589}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{2209}\sqrt{168238e^{12}}, \frac{2}{2209}\sqrt{171227e^{13}},$ $\frac{14}{2209}\sqrt{854e^{27}} + \frac{61}{2209}\sqrt{154e^{45}}$	$(-\frac{394}{2209}, \frac{212}{2209}, \frac{457}{2209}, \frac{490}{2209}, -\frac{460}{2209}, \frac{211}{2209}, -\frac{182}{2209}, \frac{63}{2209}, \frac{30}{2209})$ $+ \frac{10}{2209}\sqrt{8113e^4} \otimes e_8 + \frac{4}{2209}\sqrt{55937e^3} \otimes e_9$	{1234567, 123457, 1345, 13456, 2469, 249, 4679, 479}
931:16	$0, 0, 0, 0, 0, 0, \frac{5}{529}\sqrt{374e^{12}}, \frac{2}{529}\sqrt{7106e^{13}}, \frac{6}{529}\sqrt{374e^{27}} + \frac{51}{529}\sqrt{22e^{45}}$	$(\frac{50}{529}, \frac{56}{529}, -\frac{137}{529}, \frac{62}{529}, \frac{100}{529}, -\frac{125}{529}, \frac{106}{529}, -\frac{87}{529}, \frac{162}{529})$ $+ \frac{2}{529}\sqrt{9911e^1} \otimes e_3 + \frac{34}{529}\sqrt{55e^4} \otimes e_6 + \frac{4}{529}\sqrt{4862e^5} \otimes e_8$	{1268, 1678, 234789, 3489}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{55e^{12}}, \frac{8}{105}\sqrt{33e^{13}}, \frac{2}{105}\sqrt{231e^{27}} + \frac{2}{105}\sqrt{231e^{45}}$	$(-\frac{1}{7}, \frac{1}{35}, \frac{8}{35}, \frac{4}{35}, -\frac{1}{5}, \frac{2}{5}, -\frac{4}{35}, \frac{3}{35}, -\frac{3}{35})$ $+ \frac{11}{35}e^4 \otimes e_5 + \frac{1}{105}\sqrt{2145e^6} \otimes e_8 + \frac{1}{35}\sqrt{341e^3} \otimes e_9$	{2469, 2569, 4679, 5679}
931:16	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7e^{12}}, \frac{1}{7}\sqrt{7e^{13}}, \frac{1}{7}\sqrt{6e^{27}} + \frac{1}{7}e^{45}$	$(0, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{11e^1} \otimes e_6 + \frac{1}{7}\sqrt{14e^2} \otimes e_8$	{123459, 1239, 145789, 1789, 2467, 3468}
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{163}\sqrt{7106e^{12}}, \frac{2}{489}\sqrt{7106e^{13}},$ $\frac{17}{163}\sqrt{22e^{27}} + \frac{2}{489}\sqrt{2805e^{45}}$	$(-\frac{94}{489}, \frac{25}{163}, -\frac{6}{163}, \frac{28}{489}, \frac{28}{489}, \frac{81}{163}, -\frac{19}{489}, -\frac{112}{489}, \frac{56}{489})$ $+ \frac{1}{489}\sqrt{69190e^6} \otimes e_9 + \frac{2}{489}\sqrt{23001e^2} \otimes e_8$	{12349, 14789, 24567, 267, 34568, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:16	$0, 0, 0, 0, 0, 0, \frac{2}{397}\sqrt{3841}e^{12}, \frac{3}{397}\sqrt{4342}e^{13},$ $\frac{6}{397}\sqrt{835}e^{27} + \frac{1}{397}\sqrt{5010}e^{45}$	$(-\frac{118}{397}, \frac{119}{397}, \frac{70}{397}, \frac{60}{397}, \frac{60}{397}, -\frac{97}{397}, \frac{1}{397}, -\frac{48}{397}, \frac{120}{397})$ $+ \frac{2}{397}\sqrt{11857}e^3 \otimes e_6 + \frac{2}{397}\sqrt{17535}e^2 \otimes e_8$	{123459, 1239, 1456789, 16789, 2467, 348}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{119}\sqrt{1749}e^{12}, \frac{1}{119}\sqrt{1749}e^{34},$ $\frac{1}{119}\sqrt{583}e^{15} + \frac{1}{119}\sqrt{1749}e^{27}$	$(-\frac{10}{119}, \frac{22}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{44}{119}, -\frac{31}{119}, \frac{12}{119}, -\frac{9}{119}, \frac{2}{7})$ $+ \frac{1}{119}\sqrt{4558}e^2 \otimes e_6 + \frac{53}{119}e^3 \otimes e_4 + \frac{5}{119}\sqrt{159}e^5 \otimes e_8$	{12389, 12489, 136789, 146789, 2378, 2478, 368, 468}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{119}\sqrt{1749}e^{12}, \frac{1}{119}\sqrt{1749}e^{34},$ $\frac{1}{119}\sqrt{583}e^{15} + \frac{1}{119}\sqrt{1749}e^{27}$	$(-\frac{10}{119}, \frac{22}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{44}{119}, -\frac{31}{119}, \frac{12}{119}, -\frac{9}{119}, \frac{2}{7})$ $+ \frac{1}{119}\sqrt{4558}e^2 \otimes e_6 + \frac{53}{119}e^3 \otimes e_4 - \frac{5}{119}\sqrt{159}e^5 \otimes e_8$	{12389, 12489, 136789, 146789, 2378, 2478, 368, 468}
931:17	$0, 0, 0, 0, 0, \frac{1}{103}\sqrt{1834}e^{12}, \frac{2}{103}\sqrt{393}e^{34},$ $\frac{1}{103}\sqrt{10218}e^{15} + \frac{1}{103}\sqrt{1834}e^{27}$	$(-\frac{14}{103}, \frac{32}{103}, \frac{12}{103}, \frac{12}{103}, \frac{64}{103}, -\frac{67}{103}, \frac{18}{103}, \frac{24}{103}, \frac{50}{103})$ $+ \frac{1}{103}\sqrt{22270}e^5 \otimes e_6$	{1234679, 1236789, 12679, 13469, 13689, 169, 2346, 2368, 26, 3467, 3678, 67}
931:17	$0, 0, 0, 0, 0, 0, \frac{6}{229}\sqrt{141}e^{12}, \frac{1}{229}\sqrt{8930}e^{34},$ $\frac{2}{229}\sqrt{11562}e^{15} + \frac{1}{229}\sqrt{3290}e^{27}$	$(\frac{54}{229}, -\frac{17}{229}, -\frac{20}{229}, -\frac{20}{229}, -\frac{34}{229}, \frac{114}{229}, \frac{37}{229}, -\frac{40}{229}, \frac{20}{229})$ $+ \frac{1}{229}\sqrt{16262}e^6 \otimes e_9 + \frac{2}{229}\sqrt{5405}e^1 \otimes e_8$	{12349, 129, 13479, 179, 23678, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{967}\sqrt{13731}e^{12}, \frac{4}{967}\sqrt{10149}e^{34},$ $\frac{4}{967}\sqrt{15522}e^{15} + \frac{20}{967}\sqrt{199}e^{27}$	$(-\frac{138}{967}, \frac{74}{967}, \frac{408}{967}, -\frac{99}{967}, \frac{148}{967}, \frac{250}{967}, -\frac{64}{967}, \frac{309}{967}, \frac{10}{967})$ $+ \frac{26}{967}\sqrt{597}e^3 \otimes e_9 + \frac{2}{967}\sqrt{70645}e^5 \otimes e_6$	{123457, 123578, 1345, 1358, 24589, 259, 45789, 579}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{2242}e^{12}, \frac{2}{1365}\sqrt{26845}e^{34},$ $\frac{4}{455}\sqrt{590}e^{15} + \frac{4}{1365}\sqrt{1239}e^{27}$	$(-\frac{57}{455}, \frac{1}{13}, -\frac{1}{21}, \frac{157}{1365}, \frac{13}{13}, -\frac{61}{455}, -\frac{22}{455}, \frac{92}{1365}, \frac{1}{35})$ $+ \frac{1}{1365}\sqrt{110094}e^5 \otimes e_8 + \frac{1}{1365}\sqrt{67614}e^3 \otimes e_6 + \frac{1}{455}\sqrt{13334}e^4 \otimes e_9$	{123457, 1345, 2569, 5679}
931:17	$0, 0, 0, 0, 0, 0, \frac{10}{229}\sqrt{62}e^{12}, \frac{2}{229}\sqrt{1426}e^{34}, \frac{4}{229}\sqrt{93}e^{15} + \frac{2}{229}\sqrt{2170}e^{27}$	$(-\frac{14}{229}, \frac{18}{229}, \frac{9}{229}, -\frac{53}{229}, \frac{36}{229}, \frac{84}{229}, \frac{4}{229}, -\frac{44}{229}, \frac{22}{229})$ $+ \frac{2}{229}\sqrt{3534}e^2 \otimes e_8 + \frac{4}{229}\sqrt{465}e^6 \otimes e_9 + \frac{62}{229}e^3 \otimes e_4$	{135789, 145789, 3568, 4568}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{814}e^{12}, \frac{1}{27}\sqrt{185}e^{34}, \frac{1}{54}\sqrt{185}e^{15} + \frac{1}{54}\sqrt{222}e^{27}$	$(\frac{11}{27}, -\frac{5}{36}, -\frac{7}{108}, -\frac{7}{108}, -\frac{5}{18}, \frac{5}{9}, \frac{29}{108}, -\frac{7}{54}, \frac{7}{54})$ $+ \frac{1}{54}\sqrt{1739}e^6 \otimes e_8 + \frac{2}{27}\sqrt{111}e^1 \otimes e_5$	{234567, 23578, 2567, 3456, 358, 56}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{1971}\sqrt{726910}e^{12}, \frac{1}{1971}\sqrt{415774}e^{34},$ $\frac{16}{1971}\sqrt{1389}e^{15} + \frac{1}{1971}\sqrt{534302}e^{27}$	$(\frac{433}{1971}, -\frac{5}{657}, -\frac{239}{1971}, -\frac{239}{1971}, -\frac{10}{657}, \frac{70}{657}, \frac{418}{1971}, -\frac{478}{1971}, \frac{403}{1971})$ $+ \frac{1}{1971}\sqrt{1052862}e^2 \otimes e_8 + \frac{4}{1971}\sqrt{36114}e^1 \otimes e_5$	{234567, 23457, 2567, 257, 3568, 358}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{307}\sqrt{2001}e^{12}, \frac{8}{307}\sqrt{69}e^{34}, \frac{92}{307}\sqrt{2}e^{15} + \frac{4}{307}\sqrt{2001}e^{27}$	$(-\frac{5}{307}, \frac{41}{307}, \frac{116}{307}, -\frac{68}{307}, \frac{82}{307}, -\frac{143}{307}, \frac{36}{307}, \frac{48}{307}, \frac{77}{307})$ $+ \frac{184}{307}e^3 \otimes e_4 + \frac{4}{307}\sqrt{4117}e^2 \otimes e_6$	{123589, 124589, 1356789, 1456789, 23578, 24578, 3568, 4568}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{243}\sqrt{754}e^{12}, \frac{2}{243}\sqrt{2470}e^{34}, \frac{2}{243}\sqrt{4290}e^{15} + \frac{4}{243}\sqrt{247}e^{27}$	$(\frac{29}{243}, \frac{10}{81}, -\frac{22}{243}, -\frac{22}{243}, \frac{20}{81}, -\frac{25}{81}, \frac{59}{243}, -\frac{44}{243}, \frac{89}{243})$ $+ \frac{2}{243}\sqrt{5226}e^1 \otimes e_6 + \frac{52}{81}e^5 \otimes e_8$	{12345, 125, 13457, 157, 2345679, 25679, 34569, 569}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{9}\sqrt{69}e^{34}, \frac{1}{18}\sqrt{23}e^{15} + \frac{1}{18}\sqrt{46}e^{27}$	$(\frac{1}{9}, \frac{1}{12}, -\frac{5}{36}, -\frac{5}{36}, \frac{1}{6}, \frac{1}{3}, \frac{7}{36}, -\frac{5}{18}, \frac{5}{18})$ $+ \frac{1}{18}\sqrt{667}e^6 \otimes e_8$	{123469, 12389, 1269, 134679, 13789, 1679, 23467, 2378, 267, 346, 38, 6}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{46}e^{12}, \frac{1}{9}\sqrt{69}e^{34}, \frac{1}{18}\sqrt{23}e^{15} + \frac{1}{18}\sqrt{46}e^{27}$	$(\frac{1}{9}, \frac{1}{12}, \frac{2}{3}, -\frac{5}{36}, \frac{1}{6}, -\frac{11}{18}, \frac{7}{36}, \frac{19}{36}, \frac{5}{18})$ $+ \frac{1}{18}\sqrt{667}e^3 \otimes e_6$	{12349, 12389, 124689, 1269, 13479, 13789, 146789, 1679, 2347, 2378, 24678, 267, 34, 38, 468, 6}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{213}\sqrt{1515}e^{12}, \frac{2}{213}\sqrt{7171}e^{34}, \frac{6}{71}\sqrt{101}e^{15} + \frac{2}{213}\sqrt{1515}e^{27}$	$(-\frac{10}{71}, \frac{22}{71}, -\frac{35}{213}, -\frac{35}{213}, \frac{44}{71}, \frac{12}{71}, \frac{12}{71}, -\frac{70}{213}, \frac{34}{71})$ $+ \frac{2}{213}\sqrt{17877}e^5 \otimes e_8$	{1236789, 123789, 13689, 1389, 2368, 238, 3678, 378}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{699}\sqrt{4695}e^{12}, \frac{1}{699}\sqrt{145858}e^{34},$ $\frac{6}{233}\sqrt{313}e^{15} + \frac{2}{699}\sqrt{4695}e^{27}$	$(-\frac{20}{233}, \frac{44}{233}, \frac{112}{699}, -\frac{161}{699}, \frac{88}{233}, -\frac{67}{233}, \frac{24}{233}, -\frac{49}{699}, \frac{68}{233})$ $+ \frac{1}{699}\sqrt{170898}e^3 \otimes e_6 + \frac{2}{699}\sqrt{55401}e^5 \otimes e_8$	{123789, 1246789, 1389, 14689, 238, 2468, 378, 4678}
931:17	$0, 0, 0, 0, 0, 0, \frac{5}{99}\sqrt{62}e^{12}, \frac{1}{99}\sqrt{1426}e^{34}, \frac{2}{99}\sqrt{93}e^{15} + \frac{1}{99}\sqrt{2170}e^{27}$	$(-\frac{7}{99}, \frac{1}{11}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{11}, \frac{14}{33}, \frac{2}{99}, -\frac{2}{9}, \frac{1}{9})$ $+ \frac{1}{99}\sqrt{3534}e^2 \otimes e_8 + \frac{2}{99}\sqrt{465}e^6 \otimes e_9$	{123459, 1259, 135789, 234567, 2567, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{182e^{12}}, \frac{1}{699}\sqrt{127218e^{34}},$ $\frac{2}{699}\sqrt{15834e^{15}} + \frac{2}{699}\sqrt{15015e^{27}}$	$(-\frac{8}{233}, -\frac{6}{233}, \frac{71}{233}, -\frac{51}{233}, -\frac{12}{233}, \frac{111}{233}, -\frac{14}{233}, \frac{20}{233}, -\frac{20}{233})$ $+\frac{1}{699}\sqrt{138138e^6} \otimes e_8 + \frac{2}{233}\sqrt{5551e^3} \otimes e_9$	{1234567, 123578, 13456, 1358, 24589, 2569, 45789, 5679}
931:17	$0, 0, 0, 0, 0, 0, \frac{8}{217}\sqrt{146e^{12}}, \frac{6}{217}\sqrt{73e^{34}}, \frac{4}{217}\sqrt{365e^{15}} + \frac{12}{217}\sqrt{73e^{27}}$	$(\frac{64}{217}, -\frac{41}{217}, \frac{18}{217}, \frac{18}{217}, -\frac{82}{217}, \frac{128}{217}, \frac{23}{217}, \frac{36}{217}, -\frac{18}{217})$ $+\frac{2}{217}\sqrt{6497e^1} \otimes e_5 + \frac{2}{217}\sqrt{7373e^6} \otimes e_9$	{12349, 12389, 129, 13479, 13789, 179}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{639}\sqrt{23374e^{12}}, \frac{4}{639}\sqrt{4030e^{34}},$ $\frac{2}{639}\sqrt{22971e^{15}} + \frac{2}{639}\sqrt{23777e^{27}}$	$(\frac{464}{639}, -\frac{19}{71}, \frac{80}{639}, \frac{80}{639}, -\frac{38}{71}, \frac{40}{213}, \frac{293}{639}, \frac{160}{639}, \frac{122}{639})$ $+\frac{2}{639}\sqrt{209157e^1} \otimes e_5$	{234567, 23457, 235678, 23578, 2567, 257, 345, 3456, 3568, 358, 5, 56}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{229}\sqrt{3290e^{12}}, \frac{1}{229}\sqrt{8930e^{34}},$ $\frac{1}{229}\sqrt{11562e^{15}} + \frac{6}{229}\sqrt{141e^{27}}$	$(\frac{35}{229}, -\frac{17}{229}, \frac{95}{229}, -\frac{20}{229}, -\frac{34}{229}, -\frac{59}{229}, \frac{18}{229}, \frac{75}{229}, \frac{1}{229})$ $+\frac{1}{229}\sqrt{16262e^1} \otimes e_6 + \frac{2}{229}\sqrt{5405e^3} \otimes e_9$	{12489, 129, 14789, 179, 23467, 23678, 346, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{2117}\sqrt{1320586e^{12}}, \frac{1}{2117}\sqrt{108606e^{34}},$ $\frac{20}{2117}\sqrt{1574e^{15}} + \frac{4}{2117}\sqrt{55877e^{27}}$	$(\frac{581}{2117}, -\frac{103}{2117}, \frac{138}{2117}, \frac{138}{2117}, -\frac{206}{2117}, -\frac{890}{2117}, \frac{478}{2117}, \frac{276}{2117}, \frac{375}{2117})$ $+\frac{1}{2117}\sqrt{1279662e^1} \otimes e_5 + \frac{1}{2117}\sqrt{1726678e^2} \otimes e_6$	{23457, 23578, 257, 3456, 3568, 56}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{937}\sqrt{11055e^{12}}, \frac{4}{937}\sqrt{14941e^{34}},$ $\frac{4}{937}\sqrt{11658e^{15}} + \frac{12}{937}\sqrt{134e^{27}}$	$(\frac{330}{937}, -\frac{27}{937}, \frac{165}{937}, -\frac{371}{937}, -\frac{54}{937}, \frac{120}{937}, \frac{303}{937}, -\frac{206}{937}, \frac{276}{937})$ $+\frac{12}{937}\sqrt{4087e^1} \otimes e_8 + \frac{536}{937}e^3 \otimes e_4$	{2356789, 235789, 2456789, 245789, 35689, 3589, 45689, 4589}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{253}\sqrt{910e^{12}}, \frac{2}{253}\sqrt{910e^{34}}, \frac{14}{253}\sqrt{78e^{15}} + \frac{4}{253}\sqrt{91e^{27}}$	$(\frac{80}{253}, -\frac{6}{253}, \frac{111}{253}, -\frac{71}{253}, -\frac{12}{253}, -\frac{102}{253}, \frac{74}{253}, \frac{40}{253}, \frac{68}{253})$ $+\frac{182}{253}e^3 \otimes e_4 + \frac{4}{253}\sqrt{3003e^1} \otimes e_6$	{12358, 12458, 13578, 14578, 2356789, 2456789, 35689, 45689}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{253}\sqrt{91e^{12}}, \frac{2}{253}\sqrt{910e^{34}}, \frac{14}{253}\sqrt{78e^{15}} + \frac{4}{253}\sqrt{910e^{27}}$	$(-\frac{8}{253}, -\frac{6}{253}, \frac{111}{253}, -\frac{71}{253}, -\frac{12}{253}, \frac{162}{253}, -\frac{14}{253}, \frac{40}{253}, -\frac{20}{253})$ $+\frac{182}{253}e^3 \otimes e_4 + \frac{4}{253}\sqrt{3003e^6} \otimes e_9$	{1235678, 1245678, 13568, 14568, 23589, 24589, 35789, 45789}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{1371}\sqrt{511e^{12}}, \frac{2}{1371}\sqrt{81030e^{34}},$ $\frac{2}{1371}\sqrt{31755e^{15}} + \frac{2}{1371}\sqrt{40953e^{27}}$	$(\frac{56}{457}, -\frac{45}{457}, \frac{112}{457}, -\frac{78}{457}, -\frac{90}{457}, \frac{180}{457}, \frac{11}{457}, \frac{34}{457}, -\frac{34}{457})$ $+\frac{2}{457}\sqrt{13870e^3} \otimes e_9 + \frac{2}{457}\sqrt{6351e^1} \otimes e_5 + \frac{4}{1371}\sqrt{22119e^6} \otimes e_8$	{12489, 1269, 14789, 1679}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{719}\sqrt{16226e^{12}}, \frac{1}{2157}\sqrt{614026e^{34}},$ $\frac{4}{719}\sqrt{4270e^{15}} + \frac{28}{2157}\sqrt{183e^{27}}$	$(-\frac{114}{719}, \frac{70}{719}, \frac{505}{2157}, -\frac{512}{2157}, \frac{140}{719}, \frac{69}{719}, -\frac{44}{719}, -\frac{7}{2157}, \frac{26}{719})$ $+\frac{1}{2157}\sqrt{796782e^5} \otimes e_8 + \frac{1}{719}\sqrt{96502e^3} \otimes e_9$	{1234567, 123457, 1345, 13456, 2569, 259, 5679, 579}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{669}\sqrt{11055e^{12}}, \frac{4}{669}\sqrt{14941e^{34}},$ $\frac{4}{669}\sqrt{11658e^{15}} + \frac{4}{223}\sqrt{134e^{27}}$	$(\frac{110}{223}, -\frac{9}{223}, -\frac{103}{669}, -\frac{103}{669}, -\frac{18}{223}, \frac{40}{223}, \frac{101}{223}, -\frac{206}{669}, \frac{92}{223})$ $+\frac{4}{223}\sqrt{4087e^1} \otimes e_8$	{12345, 123456, 125, 1256, 134567, 13457, 1567, 157, 2356789, 235789, 35689, 3589}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{411}\sqrt{6162e^{12}}, \frac{1}{411}\sqrt{21646e^{34}},$ $\frac{1}{411}\sqrt{17538e^{15}} + \frac{1}{411}\sqrt{6162e^{27}}$	$(\frac{26}{137}, -\frac{11}{137}, \frac{91}{411}, -\frac{92}{411}, -\frac{22}{137}, \frac{15}{137}, \frac{15}{137}, -\frac{1}{411}, \frac{4}{137})$ $+\frac{1}{411}\sqrt{28914e^1} \otimes e_8 + \frac{1}{411}\sqrt{28914e^3} \otimes e_9$	{1269, 129, 1679, 179, 23678, 2378, 368, 38}
931:17	$0, 0, 0, 0, 0, 0, \frac{9}{461}\sqrt{286e^{12}}, \frac{9}{461}\sqrt{178e^{34}}, \frac{90}{461}e^{15} + \frac{9}{461}\sqrt{266e^{27}}$	$(\frac{63}{461}, -\frac{9}{461}, -\frac{45}{461}, -\frac{45}{461}, -\frac{18}{461}, \frac{126}{461}, \frac{54}{461}, -\frac{90}{461}, \frac{45}{461})$ $+\frac{18}{461}\sqrt{41e^6} \otimes e_9 + \frac{36}{461}\sqrt{14e^1} \otimes e_5 + \frac{9}{461}\sqrt{446e^2} \otimes e_8$	{234567, 2567, 3568}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{521}\sqrt{23374e^{12}}, \frac{2}{521}\sqrt{4030e^{34}},$ $\frac{1}{521}\sqrt{22971e^{15}} + \frac{1}{521}\sqrt{23777e^{27}}$	$(\frac{232}{521}, -\frac{171}{1042}, \frac{483}{1042}, -\frac{323}{1042}, -\frac{171}{521}, \frac{60}{521}, \frac{293}{1042}, \frac{80}{521}, \frac{61}{521})$ $+\frac{1}{521}\sqrt{209157e^1} \otimes e_5 + \frac{403}{521}e^3 \otimes e_4$	{235678, 23578, 245678, 24578, 3568, 358, 4568, 458}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{787}\sqrt{4730e^{12}}, \frac{8}{787}\sqrt{2365e^{34}},$ $\frac{6}{787}\sqrt{2365e^{15}} + \frac{2}{787}\sqrt{30745e^{27}}$	$(\frac{176}{787}, -\frac{127}{787}, \frac{352}{787}, -\frac{72}{787}, -\frac{254}{787}, \frac{104}{787}, \frac{49}{787}, \frac{280}{787}, -\frac{78}{787})$ $+\frac{2}{787}\sqrt{55685e^1} \otimes e_5 + \frac{4}{787}\sqrt{22790e^3} \otimes e_9$	{124689, 12489, 1269, 129, 146789, 14789, 1679, 179}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{337}\sqrt{1834e^{12}}, \frac{4}{337}\sqrt{393e^{34}},$ $\frac{2}{337}\sqrt{10218e^{15}} + \frac{2}{337}\sqrt{1834e^{27}}$	$(-\frac{28}{337}, \frac{64}{337}, \frac{155}{337}, -\frac{107}{337}, \frac{128}{337}, -\frac{134}{337}, \frac{36}{337}, \frac{48}{337}, \frac{100}{337})$ $+\frac{262}{337}e^3 \otimes e_4 + \frac{2}{337}\sqrt{22270e^5} \otimes e_6$	{1236789, 1246789, 13689, 14689, 2368, 2468, 3678, 4678}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{903}\sqrt{1155e^{12}}, \frac{2}{903}\sqrt{16555e^{34}},$ $\frac{10}{903}\sqrt{33e^{15}} + \frac{2}{301}\sqrt{1870e^{27}}$	$(-\frac{25}{301}, \frac{19}{301}, \frac{149}{903}, -\frac{202}{903}, \frac{38}{301}, \frac{33}{301}, -\frac{6}{301}, -\frac{53}{903}, \frac{13}{301})$ $+\frac{2}{301}\sqrt{2145e^3} \otimes e_9 + \frac{2}{903}\sqrt{24915e^2} \otimes e_8$	{12569, 1259, 1456789, 145789, 234567, 23457, 3568, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{91}e^{12}, \frac{1}{81}\sqrt{910}e^{34}, \frac{7}{81}\sqrt{78}e^{15} + \frac{2}{81}\sqrt{910}e^{27}$	$(-\frac{4}{81}, -\frac{1}{27}, \frac{10}{81}, \frac{10}{81}, -\frac{2}{27}, 1, -\frac{7}{81}, \frac{20}{81}, -\frac{10}{81})$ $+ \frac{2}{81}\sqrt{3003}e^6 \otimes e_9$	{1234567, 1235678, 12567, 13456, 13568, 156, 23459, 23589, 259, 34579, 35789, 579}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{1}{157}\sqrt{7171}e^{34}, \frac{9}{157}\sqrt{101}e^{15} + \frac{1}{157}\sqrt{1515}e^{27}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+ \frac{101}{157}e^3 \otimes e_4 - \frac{1}{157}\sqrt{17877}e^5 \otimes e_8$	{1236789, 123789, 1246789, 124789, 13689, 1389, 14689, 1489, 2368, 238, 2468, 248, 3678, 378, 4678, 478}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{1515}e^{12}, \frac{1}{157}\sqrt{7171}e^{34}, \frac{9}{157}\sqrt{101}e^{15} + \frac{1}{157}\sqrt{1515}e^{27}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, -\frac{68}{157}, \frac{66}{157}, \frac{18}{157}, \frac{18}{157}, -\frac{35}{157}, \frac{51}{157})$ $+ \frac{101}{157}e^3 \otimes e_4 + \frac{1}{157}\sqrt{17877}e^5 \otimes e_8$	{1236789, 123789, 1246789, 124789, 13689, 1389, 14689, 1489, 2368, 238, 2468, 248, 3678, 378, 4678, 478}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{367}\sqrt{9515}e^{12}, \frac{3}{367}\sqrt{3806}e^{34}, \frac{1}{367}\sqrt{11418}e^{15} + \frac{2}{367}\sqrt{9515}e^{27}$	$(-\frac{26}{367}, \frac{77}{367}, -\frac{48}{367}, \frac{48}{367}, \frac{154}{367}, -\frac{19}{367}, \frac{51}{367}, -\frac{96}{367}, \frac{128}{367})$ $+ \frac{2}{367}\sqrt{21279}e^2 \otimes e_8 + \frac{2}{367}\sqrt{6055}e^5 \otimes e_6$	{123459, 1259, 135789, 23457, 257, 358}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{276}\sqrt{11562}e^{15} + \frac{1}{276}\sqrt{3290}e^{27}$	$(\frac{9}{46}, -\frac{17}{276}, \frac{9}{92}, -\frac{67}{276}, -\frac{17}{138}, \frac{19}{46}, \frac{37}{276}, -\frac{10}{69}, \frac{5}{69})$ $+ \frac{1}{138}\sqrt{5405}e^1 \otimes e_8 + \frac{1}{276}\sqrt{16262}e^6 \otimes e_9 + \frac{47}{138}e^3 \otimes e_4$	{23678, 24678, 368, 468}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{1749}e^{34}, \frac{2}{185}\sqrt{583}e^{15} + \frac{2}{185}\sqrt{1749}e^{27}$	$(-\frac{4}{37}, \frac{44}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{88}{185}, -\frac{62}{185}, \frac{24}{185}, -\frac{18}{185}, \frac{68}{185})$ $+ \frac{2}{185}\sqrt{4558}e^2 \otimes e_6 + \frac{2}{37}\sqrt{159}e^5 \otimes e_8$	{12389, 136789, 2378, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{16}{2791}\sqrt{1245}e^{12}, \frac{136}{2791}\sqrt{30}e^{34}, \frac{80}{2791}\sqrt{6}e^{15} + \frac{88}{2791}\sqrt{70}e^{27}$	$(-\frac{270}{2791}, \frac{209}{2791}, \frac{468}{2791}, -\frac{579}{2791}, \frac{418}{2791}, \frac{98}{2791}, -\frac{61}{2791}, -\frac{111}{2791}, \frac{148}{2791})$ $+ \frac{16}{2791}\sqrt{3165}e^2 \otimes e_8 + \frac{80}{2791}\sqrt{19}e^5 \otimes e_6 + \frac{8}{2791}\sqrt{10470}e^3 \otimes e_9$	{1269, 146789, 23467, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{587}\sqrt{854}e^{12}, \frac{1}{587}\sqrt{18910}e^{34}, \frac{2}{587}\sqrt{5795}e^{15} + \frac{1}{587}\sqrt{183}e^{27}$	$(-\frac{14}{587}, \frac{30}{587}, \frac{107}{587}, -\frac{108}{587}, \frac{60}{587}, -\frac{587}{587}, \frac{16}{587}, -\frac{1}{587}, \frac{46}{587})$ $+ \frac{122}{587}e^1 \otimes e_6 + \frac{1}{587}\sqrt{24766}e^5 \otimes e_8 + \frac{1}{587}\sqrt{26230}e^3 \otimes e_9$	{123457, 1345, 2569, 5679}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{699}\sqrt{182}e^{12}, \frac{1}{699}\sqrt{127218}e^{34}, \frac{2}{699}\sqrt{15834}e^{15} + \frac{2}{699}\sqrt{15015}e^{27}$	$(-\frac{8}{233}, -\frac{6}{233}, \frac{100}{699}, \frac{71}{233}, -\frac{12}{233}, -\frac{173}{699}, \frac{14}{233}, \frac{313}{699}, -\frac{20}{233})$ $+ \frac{1}{699}\sqrt{138138}e^3 \otimes e_6 + \frac{2}{233}\sqrt{5551}e^4 \otimes e_9$	{123457, 1245678, 1345, 14568, 23589, 2569, 35789, 5679}
931:17	$0, 0, 0, 0, 0, 0, \frac{10}{583}\sqrt{199}e^{12}, \frac{2}{583}\sqrt{10149}e^{34}, \frac{2}{583}\sqrt{15522}e^{15} + \frac{1}{583}\sqrt{13731}e^{27}$	$(\frac{100}{583}, \frac{37}{583}, \frac{50}{583}, -\frac{149}{583}, \frac{74}{583}, -\frac{125}{583}, \frac{137}{583}, -\frac{9}{53}, \frac{174}{583})$ $+ \frac{13}{583}\sqrt{597}e^1 \otimes e_8 + \frac{1}{583}e^3 \otimes e_4 + \frac{1}{583}\sqrt{70645}e^5 \otimes e_6$	{235789, 245789, 3589, 4589}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{590}e^{12}, \frac{1}{111}\sqrt{4366}e^{34}, \frac{4}{111}\sqrt{177}e^{15} + \frac{1}{37}\sqrt{590}e^{27}$	$(-\frac{1}{37}, \frac{7}{37}, -\frac{19}{111}, -\frac{19}{111}, \frac{14}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{38}{111}, \frac{13}{37})$ $+ \frac{1}{111}\sqrt{10974}e^2 \otimes e_8$	{1234569, 123459, 12569, 1259, 1356789, 135789, 234567, 23457, 2567, 257, 3568, 358}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{669}\sqrt{134}e^{12}, \frac{4}{669}\sqrt{14941}e^{34}, \frac{4}{669}\sqrt{11658}e^{15} + \frac{4}{669}\sqrt{11055}e^{27}$	$(-\frac{12}{223}, -\frac{9}{223}, \frac{2}{3}, -\frac{103}{669}, -\frac{18}{223}, \frac{40}{223}, -\frac{21}{223}, \frac{343}{669}, -\frac{30}{223})$ $+ \frac{4}{223}\sqrt{4087}e^3 \otimes e_9$	{1234567, 123457, 1235678, 123578, 1345, 13456, 13568, 1358, 245689, 24589, 2569, 259, 456789, 45789, 5679, 579}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{430}e^{12}, \frac{1}{159}\sqrt{4558}e^{34}, \frac{4}{159}\sqrt{129}e^{15} + \frac{1}{53}\sqrt{430}e^{27}$	$(-\frac{1}{53}, \frac{7}{53}, \frac{13}{159}, -\frac{35}{159}, \frac{14}{53}, -\frac{10}{53}, \frac{6}{53}, -\frac{22}{159}, \frac{13}{53})$ $+ \frac{1}{159}\sqrt{7998}e^2 \otimes e_8 + \frac{4}{159}\sqrt{258}e^3 \otimes e_6$	{123459, 12569, 135789, 1456789, 23457, 2567, 358, 4568}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{473}\sqrt{517}e^{12}, \frac{6}{473}\sqrt{329}e^{34}, \frac{1}{473}\sqrt{13442}e^{15} + \frac{2}{473}\sqrt{517}e^{27}$	$(\frac{4}{43}, -\frac{4}{473}, \frac{83}{473}, -\frac{2}{11}, -\frac{8}{473}, -\frac{5}{43}, \frac{40}{473}, -\frac{3}{473}, \frac{36}{473})$ $+ \frac{13}{473}\sqrt{94}e^1 \otimes e_8 + \frac{13}{473}\sqrt{94}e^3 \otimes e_9 + \frac{1}{473}\sqrt{8930}e^5 \otimes e_6$	{1269, 1679, 23678, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{146}e^{12}, \frac{3}{145}\sqrt{73}e^{34}, \frac{2}{145}\sqrt{365}e^{15} + \frac{6}{145}\sqrt{73}e^{27}$	$(\frac{32}{145}, -\frac{41}{290}, \frac{91}{290}, -\frac{11}{58}, -\frac{41}{145}, \frac{64}{145}, \frac{23}{290}, \frac{18}{145}, -\frac{9}{145})$ $+ \frac{1}{145}\sqrt{6497}e^1 \otimes e_5 + \frac{1}{145}\sqrt{7373}e^6 \otimes e_9 + \frac{73}{145}e^3 \otimes e_4$	{12389, 12489, 13789, 14789}
931:17	$0, 0, 0, 0, 0, 0, \frac{20}{967}\sqrt{199}e^{12}, \frac{4}{967}\sqrt{10149}e^{34}, \frac{4}{967}\sqrt{15522}e^{15} + \frac{2}{967}\sqrt{13731}e^{27}$	$(\frac{200}{967}, \frac{74}{967}, -\frac{99}{967}, -\frac{99}{967}, \frac{148}{967}, -\frac{250}{967}, \frac{274}{967}, -\frac{198}{967}, \frac{348}{967})$ $+ \frac{26}{967}\sqrt{597}e^1 \otimes e_8 + \frac{2}{967}\sqrt{70645}e^5 \otimes e_6$	{12345, 125, 13457, 157, 235789, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{699}\sqrt{15015}e^{12}, \frac{1}{699}\sqrt{127218}e^{34},$ $\frac{2}{699}\sqrt{15834}e^{15} + \frac{2}{233}\sqrt{182}e^{27}$	$(\frac{220}{699}, -\frac{6}{233}, \frac{100}{699}, -\frac{51}{233}, -\frac{12}{233}, -\frac{173}{699}, \frac{202}{699}, -\frac{53}{699}, \frac{184}{699})$ $+ \frac{1}{699}\sqrt{138138}e^3 \otimes e_6 + \frac{2}{233}\sqrt{5551}e^1 \otimes e_8$	{12345, 1256, 13457, 1567, 235789, 2456789, 3589, 45689}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{1583}\sqrt{147318}e^{12}, \frac{10}{1583}\sqrt{3426}e^{34},$ $\frac{1}{1583}\sqrt{39970}e^{15} + \frac{3}{1583}\sqrt{35402}e^{27}$	$(\frac{349}{1583}, \frac{77}{1583}, -\frac{111}{1583}, -\frac{111}{1583}, \frac{154}{1583}, -\frac{494}{1583}, \frac{426}{1583}, -\frac{222}{1583}, \frac{503}{1583})$ $+ \frac{1}{1583}\sqrt{779986}e^2 \otimes e_6 + \frac{3}{1583}\sqrt{90218}e^1 \otimes e_8$	{12349, 129, 134679, 1679, 2378, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{145}\sqrt{814}e^{12}, \frac{4}{145}\sqrt{185}e^{34}, \frac{2}{145}\sqrt{185}e^{15} + \frac{2}{145}\sqrt{222}e^{27}$	$(\frac{44}{145}, -\frac{3}{29}, \frac{6}{29}, -\frac{44}{145}, -\frac{6}{29}, \frac{12}{29}, \frac{1}{5}, -\frac{14}{145}, \frac{14}{145})$ $+ \frac{2}{145}\sqrt{1739}e^6 \otimes e_8 + \frac{74}{145}e^3 \otimes e_4 + \frac{8}{145}\sqrt{111}e^1 \otimes e_5$	{23578, 24578, 358, 458}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{814}e^{12}, \frac{1}{27}\sqrt{185}e^{34}, \frac{1}{54}\sqrt{185}e^{15} + \frac{1}{54}\sqrt{222}e^{27}$	$(\frac{11}{27}, -\frac{5}{36}, \frac{10}{27}, -\frac{7}{108}, -\frac{5}{18}, -\frac{17}{54}, \frac{29}{108}, \frac{11}{36}, \frac{7}{54})$ $+ \frac{1}{54}\sqrt{1739}e^3 \otimes e_6 + \frac{2}{27}\sqrt{111}e^1 \otimes e_5$	{23457, 23578, 245678, 2567, 345, 358, 4568, 56}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{243}\sqrt{247}e^{12}, \frac{2}{243}\sqrt{2470}e^{34}, \frac{2}{243}\sqrt{4290}e^{15} + \frac{2}{243}\sqrt{754}e^{27}$	$(-\frac{38}{243}, \frac{10}{81}, -\frac{22}{243}, -\frac{22}{243}, \frac{20}{81}, \frac{14}{27}, -\frac{8}{243}, -\frac{44}{243}, \frac{22}{243})$ $+ \frac{2}{243}\sqrt{5226}e^6 \otimes e_9 + \frac{52}{81}e^5 \otimes e_8$	{1234567, 12567, 13456, 156, 23459, 259, 34579, 579}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{907}\sqrt{9515}e^{12}, \frac{6}{907}\sqrt{3806}e^{34},$ $\frac{2}{907}\sqrt{11418}e^{15} + \frac{4}{907}\sqrt{9515}e^{27}$	$(-\frac{52}{907}, \frac{154}{907}, \frac{77}{907}, -\frac{269}{907}, \frac{308}{907}, -\frac{38}{907}, \frac{102}{907}, -\frac{192}{907}, \frac{256}{907})$ $+ \frac{346}{907}e^3 \otimes e_4 + \frac{4}{907}\sqrt{21279}e^2 \otimes e_8 + \frac{4}{907}\sqrt{6055}e^5 \otimes e_6$	{135789, 145789, 358, 458}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{501}e^{12}, \frac{2}{209}\sqrt{2338}e^{34}, \frac{2}{209}\sqrt{1002}e^{15} + \frac{4}{209}\sqrt{501}e^{27}$	$(\frac{24}{209}, \frac{18}{209}, \frac{195}{209}, -\frac{139}{209}, \frac{36}{209}, \frac{42}{209}, \frac{42}{209}, \frac{56}{209}, \frac{60}{209})$ $+ \frac{334}{209}e^3 \otimes e_4$	{123689, 12389, 124689, 12489, 136789, 13789, 146789, 14789, 23678, 2378, 24678, 2478, 368, 38, 468, 48}
931:17	$0, 0, 0, 0, 0, 0, \frac{4}{215}\sqrt{2001}e^{12}, \frac{8}{215}\sqrt{69}e^{34}, \frac{92}{215}\sqrt{2}e^{15} + \frac{4}{215}\sqrt{2001}e^{27}$	$(-\frac{1}{43}, \frac{41}{215}, \frac{24}{215}, \frac{24}{215}, \frac{82}{215}, -\frac{143}{215}, \frac{36}{215}, \frac{48}{215}, \frac{77}{215})$ $+ \frac{4}{215}\sqrt{4117}e^2 \otimes e_6$	{123459, 123589, 1259, 1345679, 1356789, 15679, 23457, 23578, 257, 3456, 3568, 56}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{910}e^{12}, \frac{1}{81}\sqrt{910}e^{34}, \frac{7}{81}\sqrt{78}e^{15} + \frac{2}{81}\sqrt{91}e^{27}$	$(\frac{40}{81}, -\frac{1}{27}, \frac{10}{81}, \frac{10}{81}, -\frac{2}{27}, -\frac{17}{27}, \frac{37}{81}, \frac{20}{81}, \frac{34}{81})$ $+ \frac{2}{81}\sqrt{3003}e^1 \otimes e_6$	{12345, 12358, 125, 13457, 13578, 157, 2345679, 2356789, 25679, 34569, 35689, 569}
931:17	$0, 0, 0, 0, 0, 0, \frac{3}{1337}\sqrt{446}e^{12}, \frac{5}{1337}\sqrt{6690}e^{34},$ $\frac{2}{1337}\sqrt{34342}e^{15} + \frac{8}{1337}\sqrt{1338}e^{27}$	$(-\frac{194}{1337}, \frac{134}{1337}, \frac{297}{1337}, -\frac{36}{191}, \frac{268}{1337}, -\frac{89}{1337}, -\frac{60}{1337}, \frac{45}{1337}, \frac{74}{1337})$ $+ \frac{1}{1337}\sqrt{202038}e^5 \otimes e_8 + \frac{2}{1337}\sqrt{23638}e^2 \otimes e_6 + \frac{3}{1337}\sqrt{27206}e^3 \otimes e_9$	{12489, 146789, 2378, 368}
931:17	$0, 0, 0, 0, 0, 0, \frac{1}{99}\sqrt{2170}e^{12}, \frac{1}{99}\sqrt{1426}e^{34}, \frac{2}{99}\sqrt{93}e^{15} + \frac{5}{99}\sqrt{62}e^{27}$	$(\frac{13}{99}, \frac{1}{11}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{11}, -\frac{2}{11}, \frac{2}{9}, -\frac{2}{9}, \frac{31}{99})$ $+ \frac{1}{99}\sqrt{3534}e^2 \otimes e_8 + \frac{2}{99}\sqrt{465}e^1 \otimes e_6$	{123459, 1259, 135789, 234567, 2567, 3568}
931:17	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{46}e^{12}, \frac{4}{59}\sqrt{69}e^{34}, \frac{2}{59}\sqrt{23}e^{15} + \frac{2}{59}\sqrt{46}e^{27}$	$(\frac{4}{59}, \frac{3}{59}, \frac{18}{59}, -\frac{28}{59}, \frac{6}{59}, \frac{36}{59}, \frac{7}{59}, -\frac{10}{59}, \frac{10}{59})$ $+ \frac{2}{59}\sqrt{667}e^6 \otimes e_8 + \frac{46}{59}e^3 \otimes e_4$	{12389, 12489, 13789, 14789, 2378, 2478, 38, 48}
931:17	$0, 0, 0, 0, 0, 0, \frac{6}{281}\sqrt{590}e^{12}, \frac{2}{281}\sqrt{4366}e^{34}, \frac{8}{281}\sqrt{177}e^{15} + \frac{6}{281}\sqrt{590}e^{27}$	$(-\frac{6}{281}, \frac{42}{281}, \frac{21}{281}, -\frac{97}{281}, \frac{84}{281}, \frac{36}{281}, \frac{36}{281}, -\frac{76}{281}, \frac{78}{281})$ $+ \frac{118}{281}e^3 \otimes e_4 + \frac{2}{281}\sqrt{10974}e^2 \otimes e_8$	{1356789, 135789, 1456789, 145789, 3568, 358, 4568, 458}
931:17	$0, 0, 0, 0, 0, 0, \frac{3}{1583}\sqrt{35402}e^{12}, \frac{10}{1583}\sqrt{3426}e^{34},$ $\frac{1}{1583}\sqrt{39970}e^{15} + \frac{2}{1583}\sqrt{147318}e^{27}$	$(-\frac{125}{1583}, \frac{77}{1583}, \frac{600}{1583}, -\frac{111}{1583}, \frac{154}{1583}, -\frac{494}{1583}, -\frac{48}{1583}, \frac{489}{1583}, \frac{29}{1583})$ $+ \frac{1}{1583}\sqrt{779986}e^2 \otimes e_6 + \frac{3}{1583}\sqrt{90218}e^3 \otimes e_9$	{12489, 129, 146789, 1679, 2347, 2378, 346, 368}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{51}\sqrt{17}e^{12}, \frac{8}{51}\sqrt{17}e^{34}, \frac{8}{17}\sqrt{2}e^{17} + \frac{8}{51}\sqrt{3}e^{56}$	$(\frac{16}{51}, -\frac{8}{51}, -\frac{8}{51}, -\frac{8}{51}, \frac{4}{17}, \frac{4}{17}, \frac{8}{51}, -\frac{16}{51}, \frac{8}{17})$ $+ \frac{8}{51}\sqrt{42}e^1 \otimes e_8$	{1234569, 12349, 12569, 129, 13457, 157, 2356789, 23789, 358}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{307}\sqrt{57}e^{12}, \frac{8}{307}\sqrt{97}e^{34}, \frac{24}{307}\sqrt{10}e^{17} + \frac{8}{307}\sqrt{21}e^{56}$	$(\frac{24}{307}, -\frac{24}{307}, \frac{56}{307}, -\frac{64}{307}, \frac{28}{307}, -\frac{4}{307}, 0, -\frac{8}{307}, \frac{24}{307})$ $+ \frac{16}{307}\sqrt{30}e^3 \otimes e_9 + \frac{32}{307}e^5 \otimes e_6 + \frac{8}{307}\sqrt{138}e^1 \otimes e_8$	{1259, 1269, 245789, 246789}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{83}\sqrt{17}e^{12}, \frac{8}{83}\sqrt{17}e^{34}, \frac{24}{83}\sqrt{2}e^{17} + \frac{8}{83}\sqrt{3}e^{56}$	$(\frac{16}{83}, -\frac{8}{83}, \frac{8}{83}, -\frac{24}{83}, \frac{28}{83}, -\frac{4}{83}, \frac{8}{83}, -\frac{16}{83}, \frac{24}{83})$ $+ \frac{32}{83}e^3 \otimes e_4 + \frac{32}{83}e^5 \otimes e_6 + \frac{8}{83}\sqrt{42}e^1 \otimes e_8$	{358, 368, 458, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:18	$0, 0, 0, 0, 0, 0, \frac{1}{62}\sqrt{418}e^{12}, \frac{1}{93}\sqrt{1767}e^{34}, \frac{1}{186}\sqrt{3135}e^{17} + \frac{1}{186}\sqrt{3135}e^{56}$	$(-\frac{25}{124}, \frac{11}{31}, \frac{8}{31}, -\frac{13}{62}, -\frac{3}{124}, -\frac{3}{124}, \frac{19}{124}, \frac{3}{62}, -\frac{3}{62})$ $+\frac{19}{93}\sqrt{6}e^2 \otimes e_8 + \frac{1}{62}\sqrt{1102}e^3 \otimes e_9$	{1259, 135678, 1378, 2579, 3568, 38}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{391}\sqrt{570}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{8}{391}\sqrt{798}e^{17} + \frac{4}{391}\sqrt{494}e^{56}$	$(\frac{140}{391}, -\frac{164}{391}, \frac{182}{391}, -\frac{122}{391}, \frac{58}{391}, \frac{58}{391}, -\frac{24}{391}, \frac{60}{391}, \frac{116}{391})$ $+\frac{304}{391}e^3 \otimes e_4 + \frac{8}{391}\sqrt{1843}e^1 \otimes e_2$	{13578, 14578, 2356789, 23789, 2456789, 24789}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{543}\sqrt{570}e^{12}, \frac{4}{543}\sqrt{570}e^{34}, \frac{8}{543}\sqrt{798}e^{17} + \frac{4}{543}\sqrt{494}e^{56}$	$(\frac{140}{543}, -\frac{164}{543}, \frac{182}{543}, -\frac{122}{543}, \frac{70}{543}, \frac{58}{543}, -\frac{94}{543}, -\frac{8}{543}, \frac{20}{543}, \frac{116}{543})$ $+\frac{304}{543}e^3 \otimes e_4 + \frac{304}{543}e^5 \otimes e_6 + \frac{8}{543}\sqrt{1843}e^1 \otimes e_2$	{13578, 13678, 14578, 14678}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{67}\sqrt{17}e^{12}, \frac{8}{67}\sqrt{17}e^{34}, \frac{24}{67}\sqrt{2}e^{17} + \frac{8}{67}\sqrt{3}e^{56}$	$(\frac{16}{67}, -\frac{8}{67}, \frac{8}{67}, -\frac{24}{67}, \frac{12}{67}, \frac{12}{67}, \frac{12}{67}, -\frac{16}{67}, \frac{24}{67})$ $+\frac{32}{67}e^3 \otimes e_4 + \frac{8}{67}\sqrt{42}e^1 \otimes e_8$	{2356789, 23789, 2456789, 24789, 358, 458}
931:18	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{47}e^{12}, \frac{1}{28}\sqrt{141}e^{34}, \frac{1}{112}\sqrt{3102}e^{17} + \frac{1}{112}\sqrt{1222}e^{56}$	$(\frac{1}{7}, -\frac{31}{112}, \frac{3}{7}, -\frac{3}{32}, \frac{1}{224}, \frac{1}{224}, -\frac{15}{112}, \frac{75}{224}, \frac{1}{112})$ $+\frac{1}{28}\sqrt{235}e^1 \otimes e_2 + \frac{3}{112}\sqrt{611}e^3 \otimes e_9$	{134567, 1347, 135678, 1378, 245789, 2579}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{907}\sqrt{11037}e^{12}, \frac{16}{907}\sqrt{849}e^{34},$ $\frac{8}{907}\sqrt{1698}e^{17} + \frac{8}{907}\sqrt{2830}e^{56}$	$(\frac{313}{907}, -\frac{253}{907}, -\frac{75}{907}, -\frac{75}{907}, \frac{416}{907}, -\frac{43}{907}, \frac{60}{907}, -\frac{150}{907}, \frac{373}{907})$ $+\frac{2}{907}\sqrt{93673}e^1 \otimes e_2 + \frac{6}{907}\sqrt{14433}e^5 \otimes e_8$	{134567, 1378, 1567, 234579, 236789, 2579}
931:18	$0, 0, 0, 0, 0, 0, \frac{24}{1093}\sqrt{110}e^{12}, \frac{8}{1093}\sqrt{5434}e^{34},$ $\frac{16}{1093}\sqrt{231}e^{17} + \frac{24}{1093}\sqrt{638}e^{56}$	$(\frac{132}{1093}, \frac{90}{1093}, \frac{240}{1093}, -\frac{464}{1093}, \frac{480}{1093}, -\frac{126}{1093}, \frac{222}{1093}, -\frac{224}{1093}, \frac{354}{1093})$ $+\frac{16}{1093}\sqrt{3333}e^5 \otimes e_8 + \frac{704}{1093}e^3 \otimes e_4$	{1238, 1248, 136789, 146789, 2378, 2478, 3689, 4689}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{59}\sqrt{47}e^{12}, \frac{4}{59}\sqrt{47}e^{34}, \frac{2}{59}\sqrt{141}e^{17} + \frac{2}{59}\sqrt{141}e^{56}$	$(\frac{5}{59}, \frac{8}{59}, \frac{55}{59}, -\frac{39}{59}, \frac{9}{59}, \frac{9}{59}, \frac{13}{59}, \frac{16}{59}, \frac{18}{59})$ $+\frac{94}{59}e^3 \otimes e_4$	{123589, 124589, 135678, 1378, 145678, 1478, 235789, 245789, 3568, 38, 4568, 48}
931:18	$0, 0, 0, 0, 0, 0, \frac{1}{616}\sqrt{3939}e^{12}, \frac{1}{308}\sqrt{8787}e^{34},$ $\frac{1}{616}\sqrt{17574}e^{17} + \frac{1}{616}\sqrt{29290}e^{56}$	$(\frac{23}{308}, -\frac{5}{56}, \frac{69}{308}, -\frac{3}{16}, \frac{247}{1232}, -\frac{173}{1232}, -\frac{9}{616}, \frac{45}{1232}, \frac{37}{616})$ $+\frac{13}{616}\sqrt{303}e^3 \otimes e_9 + \frac{1}{308}\sqrt{10605}e^5 \otimes e_8 + \frac{1}{308}\sqrt{4747}e^1 \otimes e_2$	{134567, 1378, 246789, 2579}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{239}\sqrt{570}e^{12}, \frac{4}{239}\sqrt{570}e^{34}, \frac{8}{239}\sqrt{798}e^{17} + \frac{4}{239}\sqrt{494}e^{56}$	$(\frac{140}{239}, -\frac{164}{239}, \frac{30}{239}, \frac{30}{239}, \frac{58}{239}, \frac{58}{239}, -\frac{24}{239}, \frac{60}{239}, \frac{116}{239})$ $+\frac{8}{239}\sqrt{1843}e^1 \otimes e_2$	{13457, 13578, 157, 2345679, 23479, 2356789, 23789, 25679, 279}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{31}\sqrt{70}e^{12}, \frac{2}{31}\sqrt{70}e^{34}, \frac{2}{31}\sqrt{10}e^{17} + \frac{2}{31}\sqrt{10}e^{56}$	$(-\frac{4}{31}, \frac{14}{31}, \frac{7}{31}, -\frac{13}{31}, \frac{3}{31}, \frac{3}{31}, \frac{10}{31}, -\frac{6}{31}, \frac{6}{31})$ $+\frac{20}{31}e^3 \otimes e_4 + \frac{2}{31}\sqrt{170}e^2 \otimes e_8$	{135678, 1378, 145678, 1478, 3568, 38, 4568, 48}
931:18	$0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{57}e^{12}, \frac{1}{6}\sqrt{19}e^{34}, \frac{1}{12}\sqrt{57}e^{17} + \frac{1}{12}\sqrt{57}e^{56}$	$(-\frac{1}{8}, \frac{1}{8}, \frac{2}{3}, -\frac{7}{48}, -\frac{1}{16}, -\frac{1}{16}, 0, \frac{25}{48}, -\frac{1}{8})$ $+\frac{1}{24}\sqrt{741}e^3 \otimes e_9$	{124589, 1259, 134567, 1347, 135678, 1378, 245789, 2579, 34, 3456, 3568, 38}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{31}\sqrt{70}e^{12}, \frac{2}{31}\sqrt{70}e^{34}, \frac{2}{31}\sqrt{10}e^{17} + \frac{2}{31}\sqrt{10}e^{56}$	$(-\frac{4}{31}, \frac{14}{31}, -\frac{3}{31}, -\frac{3}{31}, \frac{13}{31}, -\frac{7}{31}, \frac{10}{31}, -\frac{6}{31}, \frac{6}{31})$ $+\frac{20}{31}e^5 \otimes e_6 + \frac{2}{31}\sqrt{170}e^2 \otimes e_8$	{123459, 123469, 1259, 1269, 234579, 234679, 2579, 2679}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{59}\sqrt{47}e^{12}, \frac{4}{59}\sqrt{47}e^{34}, \frac{2}{59}\sqrt{141}e^{17} + \frac{2}{59}\sqrt{141}e^{56}$	$(\frac{5}{59}, \frac{8}{59}, \frac{55}{59}, \frac{8}{59}, \frac{56}{59}, -\frac{38}{59}, \frac{13}{59}, \frac{16}{59}, \frac{18}{59})$ $+\frac{94}{59}e^3 \otimes e_6$	{123459, 123469, 123589, 123689, 1259, 1269, 234579, 234679, 235789, 236789, 2579, 2679}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{143}\sqrt{418}e^{12}, \frac{4}{429}\sqrt{1767}e^{34},$ $\frac{2}{429}\sqrt{3135}e^{17} + \frac{2}{429}\sqrt{3135}e^{56}$	$(-\frac{25}{143}, \frac{4}{13}, \frac{32}{143}, -\frac{2}{11}, \frac{16}{143}, -\frac{2}{13}, \frac{19}{143}, \frac{6}{143}, -\frac{6}{143})$ $+\frac{2}{143}\sqrt{1102}e^3 \otimes e_9 + \frac{38}{143}e^5 \otimes e_6 + \frac{76}{429}\sqrt{6}e^2 \otimes e_8$	{1259, 1269, 2579, 2679}
931:18	$0, 0, 0, 0, 0, 0, \frac{4}{391}\sqrt{570}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{8}{391}\sqrt{798}e^{17} + \frac{4}{391}\sqrt{494}e^{56}$	$(\frac{140}{391}, -\frac{164}{391}, \frac{30}{391}, \frac{30}{391}, \frac{210}{391}, -\frac{94}{391}, -\frac{24}{391}, \frac{60}{391}, \frac{116}{391})$ $+\frac{304}{391}e^5 \otimes e_6 + \frac{8}{391}\sqrt{1843}e^1 \otimes e_2$	{13457, 13467, 13578, 13678, 157, 167}
931:18	$0, 0, 0, 0, 0, 0, \frac{6}{271}\sqrt{47}e^{12}, \frac{8}{271}\sqrt{141}e^{34}, \frac{2}{271}\sqrt{3102}e^{17} + \frac{2}{271}\sqrt{1222}e^{56}$	$(\frac{32}{271}, -\frac{62}{271}, \frac{96}{271}, -\frac{21}{271}, \frac{48}{271}, -\frac{46}{271}, -\frac{30}{271}, \frac{75}{271}, \frac{2}{271})$ $+\frac{6}{271}\sqrt{611}e^3 \otimes e_9 + \frac{8}{271}\sqrt{235}e^1 \otimes e_2 + \frac{94}{271}e^5 \otimes e_6$	{245789, 246789, 2579, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:18	$0, 0, 0, 0, 0, 0, \frac{1}{595}\sqrt{11037}e^{12}, \frac{8}{595}\sqrt{849}e^{34},$ $\frac{4}{595}\sqrt{1698}e^{17} + \frac{4}{595}\sqrt{2830}e^{56}$	$(\frac{313}{1190}, -\frac{253}{1190}, \frac{104}{595}, -\frac{179}{595}, \frac{208}{595}, -\frac{43}{1190}, \frac{6}{119}, -\frac{15}{119}, \frac{373}{1190})$ $+ \frac{1}{595}\sqrt{93673}e^1 \otimes e_2 + \frac{283}{595}e^3 \otimes e_4 + \frac{3}{595}\sqrt{14433}e^5 \otimes e_8$	{1378, 1478, 236789, 246789}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{67}\sqrt{17}e^{12}, \frac{8}{67}\sqrt{17}e^{34}, \frac{24}{67}\sqrt{2}e^{17} + \frac{8}{67}\sqrt{3}e^{56}$	$(\frac{16}{67}, -\frac{8}{67}, -\frac{8}{67}, -\frac{8}{67}, \frac{28}{67}, -\frac{4}{67}, \frac{8}{67}, -\frac{16}{67}, \frac{24}{67})$ $+ \frac{32}{67}e^5 \otimes e_6 + \frac{8}{67}\sqrt{42}e^1 \otimes e_8$	{13457, 13467, 157, 167, 358, 368}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{70}e^{12}, \frac{2}{21}\sqrt{70}e^{34}, \frac{2}{21}\sqrt{10}e^{17} + \frac{2}{21}\sqrt{10}e^{56}$	$(-\frac{4}{21}, \frac{2}{3}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{10}{21}, -\frac{2}{7}, \frac{2}{7})$ $+ \frac{2}{21}\sqrt{170}e^2 \otimes e_8$	{123459, 1259, 135678, 1378, 234579, 2579, 3568, 38}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{247}\sqrt{110}e^{12}, \frac{8}{741}\sqrt{5434}e^{34}, \frac{16}{741}\sqrt{231}e^{17} + \frac{8}{247}\sqrt{638}e^{56}$	$(\frac{44}{247}, \frac{30}{247}, -\frac{112}{741}, -\frac{112}{741}, \frac{160}{247}, -\frac{42}{247}, \frac{74}{247}, -\frac{224}{741}, \frac{118}{247})$ $+ \frac{16}{741}\sqrt{3333}e^5 \otimes e_8$	{123456, 1238, 1256, 134579, 136789, 1579, 234567, 2378, 2567, 3459, 3689, 59}
931:18	$0, 0, 0, 0, 0, 0, \frac{8}{291}\sqrt{57}e^{12}, \frac{8}{291}\sqrt{97}e^{34}, \frac{8}{97}\sqrt{10}e^{17} + \frac{8}{291}\sqrt{21}e^{56}$	$(\frac{8}{97}, -\frac{8}{97}, \frac{56}{291}, -\frac{64}{291}, \frac{97}{97}, 0, -\frac{8}{291}, \frac{8}{97})$ $+ \frac{16}{291}\sqrt{30}e^3 \otimes e_9 + \frac{8}{291}\sqrt{138}e^1 \otimes e_8$	{1259, 134567, 1347, 245789, 3568, 38}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{57}e^{12}, \frac{8}{67}\sqrt{19}e^{34}, \frac{4}{67}\sqrt{57}e^{17} + \frac{4}{67}\sqrt{57}e^{56}$	$(-\frac{6}{67}, \frac{6}{67}, \frac{32}{67}, -\frac{7}{67}, \frac{16}{67}, -\frac{22}{67}, 0, \frac{25}{67}, -\frac{6}{67})$ $+ \frac{2}{67}\sqrt{741}e^3 \otimes e_9 + \frac{38}{67}e^5 \otimes e_6$	{124589, 124689, 1259, 1269, 245789, 246789, 2579, 2679}
931:18	$0, 0, 0, 0, 0, 0, \frac{1}{624}\sqrt{14934}e^{17} + \frac{1}{208}\sqrt{5502}e^{56}$	$(-\frac{1}{52}, \frac{15}{208}, \frac{78}{78}, -\frac{281}{1248}, \frac{95}{416}, -\frac{81}{416}, \frac{11}{208}, \frac{23}{1248}, \frac{7}{208})$ $+ \frac{1}{156}\sqrt{4323}e^5 \otimes e_8 + \frac{1}{208}\sqrt{8515}e^3 \otimes e_9$	{124689, 1259, 134567, 1378, 246789, 2579, 3456, 38}
931:18	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{47}e^{12}, \frac{2}{53}\sqrt{47}e^{34}, \frac{1}{53}\sqrt{141}e^{17} + \frac{1}{53}\sqrt{141}e^{56}$	$(\frac{5}{106}, \frac{4}{53}, \frac{55}{106}, -\frac{39}{106}, \frac{28}{53}, -\frac{19}{53}, \frac{13}{106}, \frac{8}{53}, \frac{9}{53})$ $+ \frac{47}{53}e^3 \otimes e_4 + \frac{47}{53}e^5 \otimes e_6$	{123589, 123689, 124589, 124689, 235789, 236789, 245789, 246789}
931:19	$0, 0, 0, 0, 0, 0, \frac{11}{761}\sqrt{210}e^{12}, \frac{1}{761}\sqrt{53130}e^{13} + \frac{1}{761}\sqrt{71610}e^{24},$ $\frac{1}{761}\sqrt{22330}e^{17} + \frac{42}{761}\sqrt{110}e^{34}$	$(-\frac{56}{761}, \frac{135}{761}, \frac{107}{761}, -\frac{84}{761}, \frac{408}{761}, -\frac{278}{761}, \frac{79}{761}, \frac{51}{761}, \frac{23}{761})$ $+ \frac{1}{761}\sqrt{271810}e^3 \otimes e_6 + \frac{3}{761}\sqrt{28490}e^5 \otimes e_9$	{1239, 124689, 13457, 15678}
931:19	$0, 0, 0, 0, 0, 0, \frac{140}{417}e^{12}, \frac{20}{417}\sqrt{151}e^{13} + \frac{20}{417}\sqrt{31}e^{24},$ $\frac{140}{417}e^{17} + \frac{20}{417}\sqrt{31}e^{34}$	$(-\frac{6}{139}, \frac{53}{417}, \frac{44}{417}, -\frac{9}{139}, \frac{226}{417}, -\frac{52}{139}, \frac{35}{417}, \frac{26}{417}, \frac{17}{417})$ $+ \frac{20}{417}\sqrt{191}e^3 \otimes e_6 + \frac{20}{417}\sqrt{191}e^5 \otimes e_8$	{2389, 24569, 3478, 567}
931:19	$0, 0, 0, 0, 0, 0, \frac{16}{117}e^{12}, \frac{64}{117}e^{13} + \frac{16}{117}\sqrt{33}e^{24}, \frac{16}{117}e^{17} + \frac{16}{117}\sqrt{33}e^{34}$	$(\frac{34}{117}, -\frac{14}{117}, \frac{1}{39}, \frac{17}{39}, -\frac{77}{117}, \frac{20}{117}, \frac{20}{117}, \frac{37}{117}, \frac{6}{13})$ $+ \frac{16}{117}\sqrt{97}e^4 \otimes e_5$	{1235689, 123589, 12469, 1249, 134678, 13478, 1567, 157}
931:19	$0, 0, 0, 0, 0, 0, \frac{7}{558}\sqrt{371}e^{12}, \frac{1}{558}\sqrt{37842}e^{13} + \frac{2}{279}\sqrt{4081}e^{24},$ $\frac{7}{279}\sqrt{13727}e^{17} + \frac{1}{279}\sqrt{5565}e^{34}$	$(-\frac{35}{558}, \frac{1}{279}, -\frac{1}{36}, -\frac{35}{372}, \frac{641}{1116}, \frac{101}{186}, -\frac{11}{3209}, -\frac{101}{1116}, -\frac{34}{279})$ $+ \frac{1}{558}\sqrt{189210}e^5 \otimes e_8 + \frac{5}{558}\sqrt{7049}e^6 \otimes e_9$	{1234567, 12678, 1359, 1489}
931:19	$0, 0, 0, 0, 0, 0, \frac{1}{239}\sqrt{29962}e^{12}, \frac{3}{239}\sqrt{2110}e^{13} + \frac{1}{239}\sqrt{8018}e^{24},$ $\frac{1}{239}\sqrt{29962}e^{17} + \frac{1}{239}\sqrt{8018}e^{34}$	$(\frac{52}{239}, -\frac{12}{239}, \frac{14}{239}, \frac{78}{239}, -\frac{159}{239}, \frac{40}{239}, \frac{40}{239}, \frac{66}{239}, \frac{92}{239})$ $+ \frac{1}{239}\sqrt{83978}e^1 \otimes e_5$	{23456789, 2345789, 25679, 2579, 3568, 358, 45, 456}
931:19	$0, 0, 0, 0, 0, 0, \frac{6}{3209}\sqrt{52899}e^{12}, \frac{6}{3209}\sqrt{5005}e^{13} + \frac{12}{3209}\sqrt{4466}e^{24},$ $\frac{30}{3209}\sqrt{2926}e^{17} + \frac{42}{3209}\sqrt{462}e^{34}$	$(\frac{192}{3209}, -\frac{105}{3209}, -\frac{9}{3209}, \frac{288}{3209}, \frac{1665}{3209}, -\frac{1194}{3209}, \frac{87}{3209}, \frac{183}{3209}, \frac{279}{3209})$ $+ \frac{12}{3209}\sqrt{29722}e^1 \otimes e_6 + \frac{6}{3209}\sqrt{101255}e^5 \otimes e_9$	{1239, 12489, 13457, 1578}
931:19	$0, 0, 0, 0, 0, 0, \frac{4}{311}\sqrt{834}e^{12}, \frac{12}{311}\sqrt{170}e^{13} + \frac{8}{311}\sqrt{201}e^{24},$ $\frac{24}{311}\sqrt{10}e^{17} + \frac{4}{311}\sqrt{618}e^{34}$	$(\frac{28}{311}, \frac{30}{311}, \frac{44}{311}, \frac{42}{311}, -\frac{116}{311}, \frac{100}{311}, \frac{58}{311}, \frac{72}{311}, \frac{86}{311})$ $+ \frac{4}{311}\sqrt{2370}e^3 \otimes e_6 + \frac{4}{311}\sqrt{2658}e^1 \otimes e_5$	{1239, 124689, 1347, 1678}
931:19	$0, 0, 0, 0, 0, 0, \frac{28}{459}\sqrt{55}e^{12}, \frac{4}{459}\sqrt{770}e^{13} + \frac{4}{459}\sqrt{1155}e^{24},$ $\frac{28}{459}\sqrt{55}e^{17} + \frac{4}{459}\sqrt{1155}e^{34}$	$(\frac{110}{459}, -\frac{52}{459}, \frac{1}{153}, \frac{55}{153}, -\frac{10}{27}, -\frac{115}{459}, \frac{58}{459}, \frac{113}{459}, \frac{56}{153})$ $+ \frac{4}{459}\sqrt{6055}e^4 \otimes e_6 + \frac{8}{459}\sqrt{1995}e^1 \otimes e_5$	{2356789, 24579, 3458, 56}
931:19	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{322}e^{12}, \frac{2}{99}\sqrt{391}e^{13} + \frac{2}{99}\sqrt{690}e^{24},$ $\frac{2}{99}\sqrt{115}e^{17} + \frac{4}{99}\sqrt{69}e^{34}$	$(\frac{8}{99}, \frac{1}{9}, \frac{5}{33}, \frac{4}{33}, -\frac{35}{99}, -\frac{34}{99}, \frac{19}{99}, \frac{23}{99}, \frac{3}{11})$ $+ \frac{2}{33}\sqrt{115}e^2 \otimes e_5 + \frac{4}{99}\sqrt{253}e^4 \otimes e_6$	{123689, 1249, 134578, 1567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:19	$0, 0, 0, 0, 0, 0, \frac{2}{1123}\sqrt{3453e^{12}}, \frac{1}{1123}\sqrt{877062e^{13}} + \frac{1}{1123}\sqrt{448890e^{24}},$ $\frac{1}{1123}\sqrt{453494e^{17}} + \frac{6}{1123}\sqrt{24171e^{34}}$	$(-\frac{10}{1123}, \frac{369}{1123}, \frac{364}{1123}, -\frac{15}{1123}, -\frac{787}{1123}, \frac{168}{1123}, \frac{359}{1123}, \frac{354}{1123}, \frac{349}{1123})$ $+\frac{1}{1123}\sqrt{2198410e^3} \otimes e_5$	{123679, 12379, 12456789, 1245789, 134, 1346, 1568, 158}
931:19	$0, 0, 0, 0, 0, 0, \frac{1}{761}\sqrt{22330e^{12}}, \frac{1}{761}\sqrt{53130e^{13}} + \frac{42}{761}\sqrt{110e^{24}},$ $\frac{11}{761}\sqrt{210e^{17}} + \frac{1}{761}\sqrt{71610e^{34}}$	$(-\frac{56}{761}, \frac{127}{761}, \frac{99}{761}, -\frac{84}{761}, \frac{428}{761}, -\frac{258}{761}, \frac{71}{761}, \frac{43}{761}, \frac{15}{761})$ $+\frac{1}{761}\sqrt{271810e^5} \otimes e_8 + \frac{3}{761}\sqrt{28490e^2} \otimes e_6$	{123459, 1289, 13567, 14678}
931:19	$0, 0, 0, 0, 0, 0, \frac{24}{311}\sqrt{10e^{12}}, \frac{12}{311}\sqrt{170e^{13}} + \frac{4}{311}\sqrt{618e^{24}},$ $\frac{8}{311}\sqrt{834e^{17}} + \frac{8}{311}\sqrt{201e^{34}}$	$(\frac{28}{311}, -\frac{68}{933}, -\frac{26}{933}, \frac{42}{311}, \frac{490}{933}, -\frac{116}{311}, \frac{16}{933}, \frac{58}{933}, \frac{100}{933})$ $+\frac{4}{311}\sqrt{2370e^5} \otimes e_8 + \frac{4}{311}\sqrt{2658e^1} \otimes e_6$	{123459, 1289, 1357, 1478}
931:19	$0, 0, 0, 0, 0, 0, \frac{66}{443}\sqrt{10e^{12}}, \frac{22}{443}\sqrt{83e^{13}} + \frac{44}{443}\sqrt{15e^{24}},$ $\frac{66}{443}\sqrt{10e^{17}} + \frac{44}{443}\sqrt{15e^{34}}$	$(-\frac{46}{443}, \frac{97}{443}, \frac{74}{443}, -\frac{69}{443}, \frac{247}{443}, -\frac{145}{443}, \frac{51}{443}, \frac{28}{443}, \frac{5}{443})$ $+\frac{308}{443}e^2 \otimes e_6 + \frac{308}{443}e^5 \otimes e_9$	{12389, 1249, 1345678, 1567}
931:19	$0, 0, 0, 0, 0, 0, \frac{18}{53}e^{12}, \frac{18}{53}e^{13} + \frac{3}{53}\sqrt{102e^{24}},$ $\frac{3}{53}\sqrt{6e^{17}} + \frac{6}{53}\sqrt{3e^{34}}$	$(\frac{6}{53}, -\frac{6}{53}, -\frac{3}{53}, \frac{9}{53}, \frac{30}{53}, -\frac{18}{53}, 0, \frac{3}{53}, \frac{6}{53})$ $+\frac{15}{53}\sqrt{6e^5} \otimes e_8 + \frac{3}{53}\sqrt{138e^4} \otimes e_6$	{23689, 2459, 3478, 567}
931:19	$0, 0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494e^{12}}, \frac{1}{1123}\sqrt{877062e^{13}} + \frac{6}{1123}\sqrt{24171e^{24}},$ $\frac{2}{1123}\sqrt{3453e^{17}} + \frac{1}{1123}\sqrt{448890e^{34}}$	$(-\frac{10}{1123}, -\frac{13}{1123}, -\frac{18}{1123}, \frac{15}{1123}, 1, \frac{168}{1123}, -\frac{23}{1123}, -\frac{28}{1123}, -\frac{33}{1123})$ $+\frac{1}{1123}\sqrt{2198410e^5} \otimes e_8$	{12345679, 1234579, 126789, 12789, 135, 1356, 1468, 148}
931:19	$0, 0, 0, 0, 0, 0, \frac{3}{53}\sqrt{6e^{12}}, \frac{18}{53}e^{13} + \frac{6}{53}\sqrt{3e^{24}},$ $\frac{18}{53}e^{17} + \frac{3}{53}\sqrt{102e^{34}}$	$(\frac{6}{53}, \frac{4}{53}, \frac{7}{53}, \frac{9}{53}, -\frac{20}{53}, -\frac{18}{53}, \frac{10}{53}, \frac{13}{53}, \frac{16}{53})$ $+\frac{15}{53}\sqrt{6e^3} \otimes e_5 + \frac{3}{53}\sqrt{138e^4} \otimes e_6$	{23689, 2459, 3478, 567}
931:19	$0, 0, 0, 0, 0, 0, \frac{2}{297}\sqrt{5809e^{12}}, \frac{2}{297}\sqrt{8007e^{13}} + \frac{4}{297}\sqrt{314e^{24}},$ $\frac{2}{297}\sqrt{13502e^{17}} + \frac{2}{99}\sqrt{1570e^{34}}$	$(-\frac{20}{297}, \frac{23}{297}, \frac{13}{297}, -\frac{10}{99}, 1, \frac{52}{297}, \frac{1}{99}, -\frac{7}{297}, -\frac{17}{297})$ $+\frac{14}{297}\sqrt{785e^5} \otimes e_9$	{23679, 2379, 246789, 24789, 345, 3456, 568, 58}
931:19	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{115e^{12}}, \frac{2}{99}\sqrt{391e^{13}} + \frac{4}{99}\sqrt{69e^{24}},$ $\frac{2}{99}\sqrt{322e^{17}} + \frac{2}{99}\sqrt{690e^{34}}$	$(\frac{8}{99}, -\frac{7}{99}, -\frac{1}{33}, \frac{4}{33}, \frac{5}{9}, \frac{34}{99}, \frac{1}{99}, \frac{5}{99}, \frac{1}{11})$ $+\frac{2}{33}\sqrt{115e^5} \otimes e_9 + \frac{4}{99}\sqrt{253e^4} \otimes e_6$	{123689, 1249, 134578, 1567}
931:19	$0, 0, 0, 0, 0, 0, \frac{1}{279}\sqrt{13727e^{12}}, \frac{1}{558}\sqrt{37842e^{13}} + \frac{1}{279}\sqrt{5565e^{24}},$ $\frac{7}{558}\sqrt{371e^{17}} + \frac{2}{279}\sqrt{4081e^{34}}$	$(-\frac{35}{558}, \frac{199}{558}, \frac{121}{372}, -\frac{35}{372}, -\frac{86}{279}, -\frac{379}{1116}, \frac{82}{279}, \frac{293}{1116}, \frac{43}{186})$ $+\frac{1}{558}\sqrt{189210e^3} \otimes e_6 + \frac{5}{558}\sqrt{7049e^2} \otimes e_5$	{1234, 1268, 13579, 1456789}
931:19	$0, 0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502e^{12}}, \frac{2}{297}\sqrt{8007e^{13}} + \frac{2}{99}\sqrt{1570e^{24}},$ $\frac{2}{297}\sqrt{5809e^{17}} + \frac{4}{297}\sqrt{314e^{34}}$	$(-\frac{20}{297}, \frac{11}{27}, \frac{37}{99}, -\frac{10}{99}, -\frac{193}{297}, \frac{52}{297}, \frac{101}{297}, \frac{91}{297}, \frac{3}{11})$ $+\frac{14}{297}\sqrt{785e^2} \otimes e_5$	{234679, 23479, 26789, 2789, 35, 356, 4568, 458}
931:19	$0, 0, 0, 0, 0, 0, \frac{30}{3209}\sqrt{2926e^{12}}, \frac{6}{3209}\sqrt{5005e^{13}} + \frac{42}{3209}\sqrt{462e^{24}},$ $\frac{6}{3209}\sqrt{52899e^{17}} + \frac{12}{3209}\sqrt{4466e^{34}}$	$(\frac{192}{3209}, \frac{421}{3209}, \frac{517}{3209}, \frac{288}{3209}, -\frac{1194}{3209}, -\frac{965}{3209}, \frac{613}{3209}, \frac{709}{3209}, \frac{805}{3209})$ $+\frac{12}{3209}\sqrt{29722e^1} \otimes e_5 + \frac{6}{3209}\sqrt{101255e^2} \otimes e_6$	{12349, 1289, 1367, 14678}
931:19	$0, 0, 0, 0, 0, 0, \frac{3}{58}\sqrt{62e^{12}}, \frac{1}{58}\sqrt{93e^{13}} + \frac{1}{29}\sqrt{93e^{24}},$ $\frac{3}{58}\sqrt{62e^{17}} + \frac{1}{29}\sqrt{93e^{34}}$	$(\frac{5}{58}, \frac{13}{116}, \frac{9}{58}, \frac{15}{116}, 1, -\frac{35}{58}, \frac{23}{116}, \frac{7}{29}, \frac{33}{116})$ $+\frac{93}{58}e^5 \otimes e_6$	{235789, 236789, 24579, 24679, 3458, 3468, 5, 6}
931:20	$0, 0, 0, 0, 0, 0, \frac{10}{3041}\sqrt{13209e^{12}}, \frac{30}{3041}\sqrt{707e^{13}} + \frac{20}{3041}\sqrt{3486e^{45}},$ $\frac{40}{3041}\sqrt{1407e^{17}} + \frac{80}{3041}\sqrt{42e^{34}}$	$(\frac{186}{3041}, -\frac{269}{3041}, \frac{535}{3041}, -\frac{432}{3041}, \frac{1153}{3041}, -\frac{864}{3041}, -\frac{83}{3041}, \frac{721}{3041}, \frac{103}{3041})$ $+\frac{10}{3041}\sqrt{30597e^5} \otimes e_9 + \frac{60}{3041}\sqrt{714e^1} \otimes e_6$	{23679, 246789, 3456, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{38}{1109}\sqrt{3e^{12}}, \frac{38}{1109}\sqrt{57e^{13}} + \frac{95}{1109}\sqrt{6e^{45}},$ $\frac{19}{1109}\sqrt{370e^{17}} + \frac{80}{1109}\sqrt{30e^{34}}$	$(\frac{133}{1109}, -\frac{228}{1109}, \frac{152}{1109}, -\frac{114}{1109}, \frac{399}{1109}, -\frac{209}{1109}, -\frac{95}{1109}, \frac{285}{1109}, \frac{38}{1109})$ $+\frac{114}{1109}\sqrt{21e^5} \otimes e_9 + \frac{19}{1109}\sqrt{610e^3} \otimes e_6 + \frac{38}{1109}\sqrt{165e^1} \otimes e_2$	{139, 14689}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{107}\sqrt{663e^{12}}, \frac{6}{107}\sqrt{143e^{13}} + \frac{4}{107}\sqrt{390e^{45}},$ $\frac{4}{107}\sqrt{390e^{17}} + \frac{4}{107}\sqrt{195e^{34}}$	$(-\frac{6}{107}, \frac{1}{107}, \frac{31}{107}, -\frac{42}{107}, \frac{67}{107}, \frac{18}{107}, -\frac{5}{107}, \frac{25}{107}, -\frac{11}{107})$ $+\frac{2}{107}\sqrt{3471e^5} \otimes e_9$	{23679, 2379, 246789, 24789, 345, 3456, 568, 58}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{219}\sqrt{85e^{12}}, \frac{2}{73}\sqrt{5e^{13}} + \frac{4}{219}\sqrt{195e^{45}},$ $\frac{4}{219}\sqrt{195e^{17}} + \frac{4}{219}\sqrt{30e^{34}}$	$(-\frac{6}{73}, \frac{37}{219}, \frac{25}{219}, -\frac{8}{73}, \frac{31}{219}, -\frac{16}{73}, \frac{19}{219}, \frac{7}{219}, \frac{1}{219})$ $+\frac{2}{73}\sqrt{105e^5} \otimes e_9 + \frac{4}{219}\sqrt{255e^1} \otimes e_6 + \frac{4}{219}\sqrt{255e^2} \otimes e_8$	{2679, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:20	$0, 0, 0, 0, 0, 0, \frac{5}{309}\sqrt{185}e^{12}, \frac{100}{309}\sqrt{2}e^{13} + \frac{10}{309}\sqrt{65}e^{45},$ $\frac{10}{309}\sqrt{65}e^{17} + \frac{10}{103}\sqrt{5}e^{34}$	$(\frac{35}{206}, -\frac{145}{618}, -\frac{25}{206}, \frac{70}{309}, -\frac{55}{309}, \frac{140}{309}, -\frac{20}{309}, \frac{5}{103}, \frac{65}{618})$ $+ \frac{5}{309}\sqrt{1155}e^1 \otimes e_2 + \frac{5}{309}\sqrt{1155}e^6 \otimes e_8 + \frac{5}{309}\sqrt{535}e^4 \otimes e_5$	{1589, 2358}
931:20	$0, 0, 0, 0, 0, 0, \frac{5}{623}\sqrt{562}e^{12}, \frac{4}{623}\sqrt{4215}e^{13} + \frac{4}{623}\sqrt{3653}e^{45},$ $\frac{4}{623}\sqrt{3653}e^{17} + \frac{1}{623}\sqrt{133194}e^{34}$	$(\frac{54}{623}, \frac{10}{89}, \frac{1}{89}, \frac{171}{623}, -\frac{110}{623}, -\frac{274}{623}, \frac{124}{623}, \frac{61}{623}, \frac{2}{7})$ $+ \frac{1}{623}\sqrt{145558}e^4 \otimes e_5 + \frac{1}{623}\sqrt{179278}e^3 \otimes e_6$	{123579, 134, 2469, 567}
931:20	$0, 0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{817802}e^{12}, \frac{20}{1277}\sqrt{1139}e^{13} + \frac{1}{1277}\sqrt{129846}e^{45},$ $\frac{68}{1277}\sqrt{201}e^{17} + \frac{7}{1277}\sqrt{6834}e^{34}$	$(\frac{310}{1277}, -\frac{135}{1277}, \frac{171}{1277}, \frac{314}{1277}, \frac{167}{1277}, -\frac{829}{1277}, \frac{175}{1277}, \frac{481}{1277}, \frac{485}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^1 \otimes e_6$	{123459, 12589, 137, 1478, 2346789, 2679, 3568, 456}
931:20	$0, 0, 0, 0, 0, 0, \frac{8}{29}\sqrt{2}e^{12}, \frac{4}{29}\sqrt{5}e^{13} + \frac{4}{29}\sqrt{5}e^{45},$ $\frac{4}{29}\sqrt{5}e^{17} + \frac{8}{29}e^{34}$	$(-\frac{2}{29}, \frac{8}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{2}{29}, -\frac{10}{29}, \frac{6}{29}, 0, \frac{4}{29})$ $+ \frac{4}{29}\sqrt{13}e^1 \otimes e_6 + \frac{4}{29}\sqrt{13}e^2 \otimes e_8$	{123459, 1478, 2679, 3568}
931:20	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{579}e^{12}, \frac{1}{395}\sqrt{56163}e^{13} + \frac{1}{395}\sqrt{19686}e^{45},$ $\frac{1}{395}\sqrt{2509}e^{17} + \frac{9}{395}\sqrt{193}e^{34}$	$(\frac{91}{395}, -\frac{102}{395}, \frac{73}{790}, \frac{87}{790}, \frac{84}{395}, -\frac{313}{395}, -\frac{11}{395}, \frac{51}{158}, \frac{16}{79})$ $+ \frac{1}{395}\sqrt{66585}e^1 \otimes e_2 + \frac{1}{395}\sqrt{73147}e^3 \otimes e_6$	{1359, 145689, 23458, 256}
931:20	$0, 0, 0, 0, 0, 0, \frac{94}{5749}\sqrt{394}e^{12}, \frac{94}{5749}\sqrt{130}e^{13} + \frac{47}{5749}\sqrt{794}e^{45},$ $\frac{94}{5749}\sqrt{263}e^{17} + \frac{47}{5749}\sqrt{2346}e^{34}$	$(-\frac{517}{5749}, \frac{1316}{5749}, -\frac{376}{5749}, \frac{658}{5749}, \frac{1551}{5749}, \frac{2491}{5749}, \frac{799}{5749}, -\frac{893}{5749}, \frac{282}{5749})$ $+ \frac{47}{5749}\sqrt{3134}e^2 \otimes e_8 + \frac{47}{5749}\sqrt{3382}e^4 \otimes e_5 + \frac{94}{5749}\sqrt{977}e^6 \otimes e_9$	{134678, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{5}{1413}\sqrt{18970}e^{12}, \frac{20}{1413}\sqrt{455}e^{13} + \frac{20}{1413}\sqrt{1015}e^{45},$ $\frac{25}{1413}\sqrt{42}e^{17} + \frac{5}{471}\sqrt{910}e^{34}$	$(-\frac{184}{1413}, \frac{646}{1413}, -\frac{5}{157}, \frac{323}{1413}, -\frac{184}{471}, \frac{176}{1413}, \frac{154}{471}, -\frac{229}{1413}, \frac{278}{1413})$ $+ \frac{20}{1413}\sqrt{2170}e^4 \otimes e_5 + \frac{5}{1413}\sqrt{51870}e^2 \otimes e_8$	{146789, 14789, 35689, 3589}
931:20	$0, 0, 0, 0, 0, 0, \frac{4}{189}\sqrt{357}e^{12}, \frac{2}{567}\sqrt{2618}e^{13} + \frac{68}{567}\sqrt{21}e^{45},$ $\frac{2}{81}\sqrt{85}e^{17} + \frac{2}{567}\sqrt{7973}e^{34}$	$(-\frac{5}{27}, \frac{34}{81}, \frac{5}{27}, -\frac{11}{81}, \frac{11}{81}, -\frac{23}{81}, \frac{19}{81}, 0, \frac{4}{81})$ $+ \frac{2}{567}\sqrt{34034}e^2 \otimes e_8 + \frac{2}{567}\sqrt{91}e^5 \otimes e_6$	{123459, 14678, 2679, 358}
931:20	$0, 0, 0, 0, 0, 0, \frac{5}{619}\sqrt{591}e^{12}, \frac{30}{619}\sqrt{17}e^{13} + \frac{5}{619}\sqrt{1263}e^{45},$ $\frac{5}{619}\sqrt{606}e^{17} + \frac{5}{619}\sqrt{537}e^{34}$	$(-\frac{45}{619}, \frac{95}{619}, \frac{65}{619}, -\frac{60}{619}, \frac{80}{619}, -\frac{135}{619}, \frac{50}{619}, \frac{20}{619}, \frac{5}{619})$ $+ \frac{10}{619}\sqrt{357}e^5 \otimes e_9 + \frac{15}{619}\sqrt{94}e^2 \otimes e_8 + \frac{75}{619}\sqrt{5}e^4 \otimes e_6$	{23679, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{5}{1413}\sqrt{18970}e^{12}, \frac{20}{1413}\sqrt{455}e^{13} + \frac{25}{1413}\sqrt{42}e^{45},$ $\frac{20}{1413}\sqrt{1015}e^{17} + \frac{5}{471}\sqrt{910}e^{34}$	$(\frac{310}{1413}, -\frac{95}{1413}, -\frac{5}{157}, \frac{190}{471}, -\frac{305}{1413}, -\frac{565}{1413}, \frac{215}{1413}, \frac{265}{1413}, \frac{175}{471})$ $+ \frac{20}{1413}\sqrt{2170}e^4 \otimes e_5 + \frac{5}{1413}\sqrt{51870}e^1 \otimes e_6$	{12359, 1347, 24679, 56}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577}e^{12}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{2}{157}\sqrt{3901}e^{45},$ $\frac{4}{157}\sqrt{83}e^{17} + \frac{2}{157}\sqrt{415}e^{34}$	$(\frac{34}{157}, \frac{9}{157}, \frac{12}{157}, \frac{65}{157}, -\frac{19}{157}, -\frac{101}{157}, \frac{43}{157}, \frac{46}{157}, \frac{77}{157})$ $+ \frac{2}{157}\sqrt{10707}e^4 \otimes e_6$	{1235689, 12459, 13478, 167, 23679, 24789, 345, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{817802}e^{12}, \frac{20}{1277}\sqrt{1139}e^{13} + \frac{68}{1277}\sqrt{201}e^{45},$ $\frac{1}{1277}\sqrt{129846}e^{17} + \frac{7}{1277}\sqrt{6834}e^{34}$	$(-\frac{392}{1277}, \frac{918}{1277}, \frac{171}{1277}, -\frac{37}{1277}, -\frac{184}{1277}, \frac{224}{1277}, \frac{526}{1277}, -\frac{221}{1277}, \frac{134}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^2 \otimes e_8$	{1234569, 123459, 14678, 1478, 2679, 279, 3568, 358}
931:20	$0, 0, 0, 0, 0, 0, \frac{24}{739}\sqrt{70}e^{12}, \frac{28}{739}\sqrt{210}e^{13} + \frac{12}{739}\sqrt{434}e^{45},$ $\frac{12}{739}\sqrt{434}e^{17} + \frac{8}{739}\sqrt{1281}e^{34}$	$(\frac{124}{739}, -\frac{212}{739}, -\frac{58}{739}, \frac{94}{739}, -\frac{28}{739}, \frac{402}{739}, -\frac{88}{739}, \frac{66}{739}, \frac{36}{739})$ $+ \frac{4}{739}\sqrt{14154}e^1 \otimes e_2 + \frac{4}{739}\sqrt{14154}e^6 \otimes e_8$	{134569, 1589, 2358, 2456}
931:20	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{1}{1211}\sqrt{962870}e^{13} + \frac{26}{1211}\sqrt{1319}e^{45},$ $\frac{1}{1211}\sqrt{2638}e^{17} + \frac{4}{1211}\sqrt{27699}e^{34}$	$(-\frac{111}{1211}, \frac{255}{1211}, \frac{3}{1211}, \frac{30}{1211}, -\frac{138}{1211}, 1, \frac{144}{1211}, -\frac{108}{1211}, \frac{33}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^6 \otimes e_8$	{12367, 12478, 134569, 1589, 2358, 2456, 34789, 679}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577}e^{12}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{4}{157}\sqrt{83}e^{45},$ $\frac{2}{157}\sqrt{3901}e^{17} + \frac{2}{157}\sqrt{415}e^{34}$	$(-\frac{9}{157}, \frac{9}{157}, \frac{12}{157}, -\frac{21}{157}, \frac{24}{157}, 1, 0, \frac{3}{157}, -\frac{9}{157})$ $+ \frac{2}{157}\sqrt{10707}e^6 \otimes e_9$	{123589, 12459, 134678, 167, 2379, 24789, 3456, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{4005}\sqrt{308662}e^{12}, \frac{2}{4005}\sqrt{547531}e^{13} + \frac{4}{4005}\sqrt{38337}e^{45},$ $\frac{4}{4005}\sqrt{119926}e^{17} + \frac{2}{4005}\sqrt{1386030}e^{34}$	$(\frac{28}{801}, \frac{71}{4005}, -\frac{52}{445}, \frac{91}{445}, -\frac{1147}{4005}, \frac{2317}{4005}, \frac{211}{4005}, -\frac{328}{4005}, \frac{39}{445})$ $+ \frac{4}{4005}\sqrt{414826}e^4 \otimes e_5 + \frac{4}{4005}\sqrt{474789}e^6 \otimes e_9$	{1249, 1567, 23579, 346}
931:20	$0, 0, 0, 0, 0, 0, \frac{3}{142}\sqrt{119}e^{12}, \frac{9}{142}\sqrt{14}e^{13} + \frac{6}{71}\sqrt{42}e^{45},$ $\frac{3}{142}\sqrt{434}e^{17} + \frac{21}{142}\sqrt{2}e^{34}$	$(-\frac{7}{71}, \frac{4}{71}, \frac{37}{284}, -\frac{77}{284}, \frac{43}{142}, \frac{135}{284}, -\frac{3}{71}, \frac{9}{284}, -\frac{10}{71})$ $+ \frac{3}{142}\sqrt{1043}e^5 \otimes e_9 + \frac{3}{142}\sqrt{714}e^6 \otimes e_8$	{23679, 24789, 3456, 58}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:20	$0, 0, 0, 0, 0, 0, \frac{14}{2677}\sqrt{8393e^{12}}, \frac{2}{2677}\sqrt{8393e^{13}} + \frac{44}{2677}\sqrt{763e^{45}},$ $\frac{2}{2677}\sqrt{310541e^{17}} + \frac{2}{2677}\sqrt{125895e^{34}}$	$(-\frac{609}{2677}, \frac{1089}{2677}, \frac{172}{2677}, -\frac{301}{2677}, -\frac{136}{2677}, \frac{1397}{2677}, \frac{480}{2677}, -\frac{437}{2677}, -\frac{129}{2677})$ $+ \frac{2}{2677}\sqrt{800387e^6} \otimes e_9 + \frac{32}{2677}\sqrt{3815e^2} \otimes e_8$	{1239, 15678, 24579, 3468}
931:20	$0, 0, 0, 0, 0, 0, \frac{70}{611}\sqrt{6e^{12}}, \frac{10}{611}\sqrt{42e^{13}} + \frac{5}{611}\sqrt{1918e^{45}},$ $\frac{5}{611}\sqrt{966e^{17}} + \frac{105}{611}\sqrt{2e^{34}}$	$(-\frac{105}{611}, \frac{180}{611}, \frac{110}{611}, -\frac{140}{611}, \frac{145}{611}, -\frac{5}{47}, \frac{75}{611}, \frac{5}{611}, -\frac{30}{611})$ $+ \frac{10}{611}\sqrt{714e^2} \otimes e_8 + \frac{10}{611}\sqrt{777e^5} \otimes e_9 + \frac{25}{611}\sqrt{70e^3} \otimes e_6$	{1239, 15678}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{2859}\sqrt{31310e^{12}}, \frac{10}{2859}\sqrt{16766e^{13}} + \frac{2}{2859}\sqrt{340370e^{45}},$ $\frac{50}{2859}\sqrt{202e^{17}} + \frac{4}{2859}\sqrt{71205e^{34}}$	$(\frac{21}{953}, \frac{353}{2859}, -\frac{125}{953}, \frac{854}{2859}, -\frac{1166}{2859}, \frac{1708}{2859}, \frac{416}{2859}, -\frac{104}{953}, \frac{479}{2859})$ $+ \frac{2}{2859}\sqrt{1162510e^4} \otimes e_5 + \frac{4}{953}\sqrt{38885e^6} \otimes e_8$	{124789, 158, 23589, 3478}
931:20	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090e^{12}}, \frac{1}{1211}\sqrt{962870e^{13}} + \frac{1}{1211}\sqrt{2638e^{45}},$ $\frac{26}{1211}\sqrt{1319e^{17}} + \frac{4}{1211}\sqrt{27699e^{34}}$	$(\frac{563}{1211}, -\frac{108}{173}, \frac{3}{1211}, \frac{367}{1211}, \frac{199}{1211}, \frac{200}{1211}, -\frac{193}{1211}, \frac{566}{1211}, \frac{370}{1211})$ $+ \frac{1}{1211}\sqrt{2667018e^1} \otimes e_2$	{134569, 13459, 15689, 1589, 23568, 2358, 245, 2456}
931:20	$0, 0, 0, 0, 0, 0, \frac{153}{7129}\sqrt{46e^{12}}, \frac{51}{7129}\sqrt{94e^{13}} + \frac{204}{7129}\sqrt{34e^{45}},$ $\frac{204}{7129}\sqrt{155e^{17}} + \frac{51}{7129}\sqrt{2874e^{34}}$	$(\frac{1071}{7129}, -\frac{1530}{7129}, -\frac{816}{7129}, \frac{1428}{7129}, -\frac{1173}{7129}, \frac{3213}{7129}, -\frac{459}{7129}, \frac{255}{7129}, \frac{612}{7129})$ $+ \frac{51}{7129}\sqrt{3794e^1} \otimes e_2 + \frac{51}{7129}\sqrt{4038e^4} \otimes e_5 + \frac{51}{7129}\sqrt{5278e^6} \otimes e_9$	{1567, 23579}
931:20	$0, 0, 0, 0, 0, 0, \frac{42}{227}\sqrt{6e^{12}}, \frac{14}{227}\sqrt{59e^{13}} + \frac{28}{227}\sqrt{15e^{45}},$ $\frac{28}{227}\sqrt{15e^{17}} + \frac{14}{227}\sqrt{30e^{34}}$	$(-\frac{28}{227}, \frac{49}{227}, \frac{56}{227}, -\frac{63}{227}, \frac{91}{227}, -\frac{49}{227}, \frac{21}{227}, \frac{28}{227}, -\frac{7}{227})$ $+ \frac{28}{227}\sqrt{19e^2} \otimes e_6 + \frac{28}{227}\sqrt{31e^5} \otimes e_9$	{2379, 24789, 3456, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{26e^{12}}, \frac{2}{21}\sqrt{39e^{13}} + \frac{2}{21}\sqrt{26e^{45}},$ $\frac{2}{21}\sqrt{26e^{17}} + \frac{2}{21}\sqrt{13e^{34}}$	$(-\frac{1}{7}, \frac{13}{21}, \frac{2}{7}, \frac{1}{21}, \frac{2}{21}, -\frac{13}{21}, \frac{10}{21}, \frac{1}{7}, \frac{1}{3})$ $+ \frac{2}{21}\sqrt{221e^2} \otimes e_6$	{123589, 12459, 134678, 167, 2379, 24789, 3456, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{16}{1037}\sqrt{222e^{12}}, \frac{6}{1037}\sqrt{3515e^{13}} + \frac{2}{1037}\sqrt{39738e^{45}},$ $\frac{4}{1037}\sqrt{6105e^{17}} + \frac{4}{1037}\sqrt{6882e^{34}}$	$(\frac{36}{1037}, -\frac{29}{1037}, \frac{8}{61}, -\frac{93}{1037}, \frac{265}{1037}, -\frac{315}{1037}, \frac{7}{1037}, \frac{172}{1037}, \frac{43}{1037})$ $+ \frac{4}{1037}\sqrt{14541e^5} \otimes e_9 + \frac{6}{1037}\sqrt{5106e^4} \otimes e_6$	{23679, 24789, 345, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{68}{487}\sqrt{2e^{12}}, \frac{17}{487}\sqrt{602e^{13}} + \frac{34}{1461}\sqrt{221e^{45}},$ $\frac{34}{1461}\sqrt{163e^{17}} + \frac{17}{487}\sqrt{62e^{34}}$	$(\frac{119}{1461}, -\frac{170}{1461}, \frac{51}{487}, -\frac{85}{1461}, \frac{119}{487}, \frac{374}{1461}, -\frac{17}{487}, \frac{272}{1461}, \frac{68}{1461})$ $+ \frac{17}{1461}\sqrt{1010e^4} \otimes e_6 + \frac{17}{1461}\sqrt{314e^1} \otimes e_2 + \frac{34}{1461}\sqrt{334e^5} \otimes e_9$	{23679, 24789}
931:20	$0, 0, 0, 0, 0, 0, \frac{3}{142}\sqrt{119e^{12}}, \frac{9}{142}\sqrt{14e^{13}} + \frac{3}{142}\sqrt{434e^{45}},$ $\frac{6}{71}\sqrt{42e^{17}} + \frac{21}{142}\sqrt{2e^{34}}$	$(\frac{10}{71}, -\frac{43}{142}, \frac{37}{284}, -\frac{43}{284}, \frac{30}{71}, \frac{33}{284}, -\frac{23}{142}, \frac{77}{284}, -\frac{3}{142})$ $+ \frac{3}{142}\sqrt{1043e^5} \otimes e_9 + \frac{3}{142}\sqrt{714e^1} \otimes e_2$	{23679, 2379, 246789, 24789}
931:20	$0, 0, 0, 0, 0, 0, \frac{7}{325}\sqrt{62e^{12}}, \frac{1}{325}\sqrt{8246e^{13}} + \frac{1}{325}\sqrt{20398e^{45}},$ $\frac{12}{325}\sqrt{4991e^{17}} + \frac{4}{325}\sqrt{651e^{34}}$	$(\frac{109}{325}, -\frac{108}{325}, -\frac{3}{325}, \frac{113}{325}, -\frac{7}{325}, -\frac{8}{25}, \frac{1}{325}, \frac{106}{325}, \frac{22}{65})$ $+ \frac{12}{325}\sqrt{434e^4} \otimes e_6 + \frac{1}{325}\sqrt{61194e^1} \otimes e_2$	{13457, 15678, 2356789, 24579}
931:20	$0, 0, 0, 0, 0, 0, \frac{10}{3041}\sqrt{13209e^{12}}, \frac{30}{3041}\sqrt{707e^{13}} + \frac{40}{3041}\sqrt{1407e^{45}},$ $\frac{20}{3041}\sqrt{3486e^{17}} + \frac{80}{3041}\sqrt{42e^{34}}$	$(-\frac{630}{3041}, \frac{955}{3041}, \frac{535}{3041}, -\frac{840}{3041}, \frac{745}{3041}, \frac{360}{3041}, \frac{325}{3041}, -\frac{95}{3041}, -\frac{305}{3041})$ $+ \frac{10}{3041}\sqrt{30597e^5} \otimes e_9 + \frac{60}{3041}\sqrt{714e^2} \otimes e_8$	{23679, 2379, 568, 58}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{2859}\sqrt{31310e^{12}}, \frac{10}{2859}\sqrt{16766e^{13}} + \frac{50}{2859}\sqrt{202e^{45}},$ $\frac{2}{2859}\sqrt{340370e^{17}} + \frac{4}{2859}\sqrt{71205e^{34}}$	$(\frac{329}{953}, -\frac{1033}{2859}, -\frac{125}{953}, \frac{1316}{2859}, -\frac{704}{2859}, \frac{322}{2859}, -\frac{46}{2859}, \frac{204}{953}, \frac{941}{2859})$ $+ \frac{2}{2859}\sqrt{1162510e^4} \otimes e_5 + \frac{4}{953}\sqrt{38885e^1} \otimes e_2$	{13569, 1359, 25, 256}
931:20	$0, 0, 0, 0, 0, 0, \frac{18}{3317}\sqrt{561e^{12}}, \frac{18}{3317}\sqrt{2233e^{13}} + \frac{36}{3317}\sqrt{77e^{45}},$ $\frac{18}{3317}\sqrt{10549e^{17}} + \frac{18}{3317}\sqrt{2607e^{34}}$	$(\frac{615}{3317}, -\frac{1167}{3317}, -\frac{84}{3317}, \frac{147}{3317}, \frac{384}{3317}, \frac{1845}{3317}, -\frac{552}{3317}, \frac{531}{3317}, \frac{63}{3317})$ $+ \frac{144}{3317}\sqrt{253e^1} \otimes e_2 + \frac{18}{3317}\sqrt{16379e^6} \otimes e_9$	{13467, 1678, 23789, 2479}
931:20	$0, 0, 0, 0, 0, 0, \frac{2}{385}\sqrt{5835e^{12}}, \frac{12}{385}\sqrt{778e^{13}} + \frac{1}{385}\sqrt{56794e^{45}},$ $\frac{1}{385}\sqrt{56794e^{17}} + \frac{1}{385}\sqrt{100362e^{34}}$	$(\frac{13}{385}, \frac{12}{55}, \frac{16}{55}, -\frac{2}{385}, \frac{127}{385}, -\frac{277}{385}, \frac{97}{385}, \frac{25}{77}, \frac{2}{7})$ $+ \frac{1}{385}\sqrt{257518e^3} \otimes e_6$	{123579, 12456789, 134, 168, 2389, 2469, 34578, 567}
931:20	$0, 0, 0, 0, 0, 0, \frac{3}{179}\sqrt{182e^{12}}, \frac{2}{179}\sqrt{273e^{13}} + \frac{5}{179}\sqrt{182e^{45}},$ $\frac{5}{179}\sqrt{182e^{17}} + \frac{3}{179}\sqrt{910e^{34}}$	$(-\frac{7}{179}, \frac{12}{179}, \frac{47}{179}, -\frac{49}{179}, \frac{89}{179}, -\frac{44}{179}, \frac{5}{179}, \frac{40}{179}, -\frac{2}{179})$ $+ \frac{13}{179}\sqrt{70e^3} \otimes e_6 + \frac{1}{179}\sqrt{16926e^5} \otimes e_9$	{2379, 246789, 345, 568}
931:20	$0, 0, 0, 0, 0, 0, \frac{8}{201}\sqrt{127e^{12}}, \frac{2}{201}\sqrt{1651e^{13}} + \frac{2}{201}\sqrt{1270e^{45}},$ $\frac{2}{201}\sqrt{1270e^{17}} + \frac{2}{201}\sqrt{9906e^{34}}$	$(\frac{14}{67}, \frac{19}{201}, -\frac{10}{67}, \frac{133}{201}, -\frac{121}{201}, \frac{35}{201}, \frac{61}{201}, \frac{4}{67}, \frac{103}{201})$ $+ \frac{2}{201}\sqrt{21082e^4} \otimes e_5$	{125, 1256, 14679, 1479, 23467, 2347, 3569, 359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:20	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383e^{12}}, \frac{1}{311}\sqrt{29491e^{13}} + \frac{2}{311}\sqrt{23746e^{45}},$ $\frac{1}{311}\sqrt{30257e^{17}} + \frac{3}{311}\sqrt{1915e^{34}}$	$(\frac{49}{622}, \frac{51}{622}, \frac{237}{622}, -\frac{44}{311}, \frac{187}{311}, -\frac{196}{311}, \frac{50}{311}, \frac{143}{311}, \frac{149}{622})$ $+ \frac{13}{311}\sqrt{1149e^5} \otimes e_6$	{1234689, 1269, 13578, 1457, 234579, 25789, 36, 468}
931:20	$0, 0, 0, 0, 0, 0, \frac{3}{1385}\sqrt{20370e^{12}}, \frac{16}{1385}\sqrt{2037e^{13}} + \frac{2}{1385}\sqrt{31234e^{45}},$ $\frac{1}{1385}\sqrt{167034e^{17}} + \frac{1}{1385}\sqrt{175182e^{34}}$	$(-\frac{252}{1385}, \frac{654}{1385}, \frac{227}{1385}, -\frac{77}{1385}, \frac{52}{1385}, -\frac{452}{1385}, \frac{402}{1385}, -\frac{5}{277}, \frac{30}{277})$ $+ \frac{1}{1385}\sqrt{875910e^2} \otimes e_8 + \frac{2}{1385}\sqrt{202342e^3} \otimes e_6$	{12345, 146789, 267, 3589}
931:21	$0, 0, 0, 0, 0, 0, \frac{10}{113}\sqrt{2e^{12}}, \frac{10}{113}\sqrt{7e^{13}} + \frac{10}{113}\sqrt{35e^{45}},$ $\frac{10}{113}\sqrt{22e^{27}} + \frac{10}{113}e^{34}$	$(\frac{4}{113}, -\frac{11}{113}, \frac{5}{113}, -\frac{23}{113}, \frac{32}{113}, \frac{59}{113}, -\frac{7}{113}, \frac{9}{113}, -\frac{18}{113})$ $+ \frac{10}{113}\sqrt{46e^6} \otimes e_8 + \frac{30}{113}\sqrt{6e^5} \otimes e_9$	{12369, 12489, 13679, 14789}
931:21	$0, 0, 0, 0, 0, 0, \frac{6}{803}\sqrt{406e^{12}}, \frac{2}{803}\sqrt{7917e^{13}} + \frac{2}{803}\sqrt{16849e^{45}},$ $\frac{8}{803}\sqrt{1218e^{27}} + \frac{2}{803}\sqrt{39585e^{34}}$	$(\frac{36}{803}, -\frac{21}{803}, \frac{179}{803}, -\frac{185}{803}, \frac{400}{803}, \frac{227}{803}, \frac{15}{803}, \frac{215}{803}, -\frac{6}{803})$ $+ \frac{16}{803}\sqrt{1015e^3} \otimes e_6 + \frac{2}{803}\sqrt{79170e^5} \otimes e_9$	{1239, 124689, 1379, 146789}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{2101}\sqrt{47242e^{12}}, \frac{4}{2101}\sqrt{30810e^{13}} + \frac{2}{2101}\sqrt{145834e^{45}},$ $\frac{1}{2101}\sqrt{104754e^{27}} + \frac{3}{2101}\sqrt{178698e^{34}}$	$(-\frac{46}{2101}, \frac{398}{2101}, \frac{173}{2101}, \frac{577}{2101}, -\frac{450}{2101}, -\frac{854}{2101}, \frac{32}{191}, \frac{127}{2101}, \frac{750}{2101})$ $+ \frac{1}{2101}\sqrt{1858870e^4} \otimes e_5 + \frac{5}{2101}\sqrt{84214e^3} \otimes e_6$	{123579, 1359, 256, 567}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{3721}\sqrt{32930e^{12}}, \frac{2}{3721}\sqrt{50505e^{13}} + \frac{10}{3721}\sqrt{9509e^{45}},$ $\frac{8}{3721}\sqrt{15910e^{27}} + \frac{74}{3721}\sqrt{55e^{34}}$	$(-\frac{584}{3721}, \frac{321}{3721}, \frac{535}{3721}, -\frac{477}{3721}, \frac{428}{3721}, \frac{401}{3721}, -\frac{263}{3721}, -\frac{49}{3721}, \frac{58}{3721})$ $+ \frac{4}{3721}\sqrt{92870e^2} \otimes e_8 + \frac{8}{3721}\sqrt{15170e^5} \otimes e_9$	{24567, 2457, 3568, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{2}{1307}\sqrt{93423e^{12}}, \frac{4}{1307}\sqrt{24585e^{13}} + \frac{3}{1307}\sqrt{22946e^{45}},$ $\frac{1}{1307}\sqrt{337634e^{27}} + \frac{3}{1307}\sqrt{193402e^{34}}$	$(\frac{228}{1307}, \frac{211}{1307}, -\frac{189}{1307}, \frac{839}{1307}, -\frac{800}{1307}, \frac{222}{1307}, \frac{439}{1307}, \frac{39}{1307}, \frac{650}{1307})$ $+ \frac{1}{1307}\sqrt{3556630e^4} \otimes e_5$	{125, 1256, 1567, 157, 235679, 23579, 3569, 359}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{711}\sqrt{6946e^{12}}, \frac{2}{711}\sqrt{24009e^{13}} + \frac{2}{711}\sqrt{37901e^{45}},$ $\frac{8}{711}\sqrt{2869e^{27}} + \frac{2}{711}\sqrt{30351e^{34}}$	$(-\frac{232}{711}, \frac{223}{711}, \frac{17}{79}, \frac{61}{711}, -\frac{140}{211}, \frac{37}{237}, -\frac{1}{9}, -\frac{1}{9}, \frac{214}{711})$ $+ \frac{20}{711}\sqrt{906e^2} \otimes e_8$	{1234569, 123459, 156789, 15789, 24567, 2457, 3568, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{426e^{12}}, \frac{2}{131}\sqrt{2769e^{13}} + \frac{2}{131}\sqrt{1349e^{45}},$ $\frac{2}{131}\sqrt{426e^{27}} + \frac{2}{131}\sqrt{2769e^{34}}$	$(-\frac{12}{131}, \frac{33}{131}, \frac{53}{131}, \frac{1}{131}, \frac{40}{131}, -\frac{89}{131}, \frac{21}{131}, \frac{41}{131}, \frac{54}{131})$ $+ \frac{2}{131}\sqrt{7810e^3} \otimes e_6$	{123579, 12456789, 1359, 145689, 23458, 256, 34578, 567}
931:21	$0, 0, 0, 0, 0, 0, \frac{22}{469}\sqrt{41e^{12}}, \frac{22}{1407}\sqrt{210e^{13}} + \frac{11}{1407}\sqrt{1578e^{45}},$ $\frac{22}{1407}\sqrt{651e^{27}} + \frac{11}{469}\sqrt{34e^{34}}$	$(-\frac{11}{67}, \frac{66}{469}, \frac{22}{469}, \frac{33}{469}, -\frac{88}{469}, \frac{176}{469}, -\frac{11}{469}, -\frac{55}{469}, \frac{55}{469})$ $+ \frac{11}{1407}\sqrt{2238e^6} \otimes e_9 + \frac{11}{469}\sqrt{482e^2} \otimes e_8 + \frac{22}{469}\sqrt{26e^4} \otimes e_5$	{15789, 3568}
931:21	$0, 0, 0, 0, 0, 0, \frac{24}{553}\sqrt{42e^{12}}, \frac{4}{553}\sqrt{994e^{13}} + \frac{8}{553}\sqrt{714e^{45}},$ $\frac{20}{79}\sqrt{2e^{27}} + \frac{8}{553}\sqrt{455e^{34}}$	$(-\frac{17}{79}, \frac{16}{79}, \frac{17}{79}, -\frac{2}{79}, \frac{2}{79}, -\frac{14}{79}, -\frac{1}{79}, 0, \frac{15}{79})$ $+ \frac{4}{553}\sqrt{4690e^2} \otimes e_8 + \frac{8}{553}\sqrt{553e^5} \otimes e_6$	{123459, 15789, 2457, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1406e^{12}}, \frac{2}{51}\sqrt{399e^{13}} + \frac{2}{51}\sqrt{19e^{45}},$ $\frac{1}{51}\sqrt{114e^{27}} + \frac{4}{51}\sqrt{19e^{34}}$	$(\frac{74}{153}, -\frac{7}{51}, -\frac{2}{51}, \frac{38}{153}, \frac{10}{51}, -\frac{97}{153}, \frac{53}{153}, \frac{4}{9}, \frac{32}{153})$ $+ \frac{5}{51}\sqrt{190e^1} \otimes e_6$	{12349, 1289, 13479, 1789, 23678, 2467, 368, 46}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{178e^{12}}, \frac{2}{169}\sqrt{4717e^{13}} + \frac{14}{169}\sqrt{89e^{45}},$ $\frac{4}{169}\sqrt{445e^{27}} + \frac{2}{169}\sqrt{2759e^{34}}$	$(-\frac{16}{169}, \frac{17}{169}, \frac{7}{169}, \frac{11}{169}, -\frac{20}{169}, 1, \frac{1}{169}, -\frac{9}{169}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115e^6} \otimes e_8$	{12367, 12478, 136, 148, 23489, 269, 34789, 679}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{54}\sqrt{858e^{12}}, \frac{1}{54}\sqrt{330e^{13}} + \frac{1}{18}\sqrt{11e^{45}},$ $\frac{1}{18}\sqrt{66e^{27}} + \frac{1}{54}\sqrt{462e^{34}}$	$(-\frac{1}{36}, \frac{2}{9}, \frac{1}{12}, \frac{1}{3}, -\frac{5}{18}, -\frac{7}{18}, \frac{7}{36}, \frac{1}{18}, \frac{5}{12})$ $+ \frac{1}{54}\sqrt{15e^2} \otimes e_6 + \frac{1}{27}\sqrt{330e^4} \otimes e_5$	{123589, 1356789, 2578, 568}
931:21	$0, 0, 0, 0, 0, 0, \frac{44}{2509}\sqrt{111e^{12}}, \frac{22}{2509}\sqrt{213e^{13}} + \frac{22}{2509}\sqrt{799e^{45}},$ $\frac{22}{2509}\sqrt{870e^{27}} + \frac{22}{2509}\sqrt{219e^{34}}$	$(-\frac{396}{2509}, \frac{231}{2509}, \frac{385}{2509}, -\frac{319}{2509}, \frac{308}{2509}, \frac{11}{193}, -\frac{165}{2509}, -\frac{11}{2509}, \frac{66}{2509})$ $+ \frac{22}{2509}\sqrt{118e^3} \otimes e_6 + \frac{44}{2509}\sqrt{321e^2} \otimes e_8 + \frac{66}{2509}\sqrt{94e^5} \otimes e_9$	{24567, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{40}{1951}\sqrt{462e^{12}}, \frac{440}{1951}\sqrt{3e^{13}} + \frac{120}{1951}\sqrt{66e^{45}},$ $\frac{40}{1951}\sqrt{715e^{27}} + \frac{240}{1951}\sqrt{11e^{34}}$	$(-\frac{543}{1951}, \frac{572}{1951}, \frac{315}{1951}, \frac{286}{1951}, -\frac{514}{1951}, \frac{282}{1951}, \frac{29}{1951}, -\frac{228}{1951}, \frac{601}{1951})$ $+ \frac{120}{1951}\sqrt{163e^2} \otimes e_8 + \frac{40}{1951}\sqrt{202e^4} \otimes e_5$	{156789, 15789, 3568, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{50}{489}\sqrt{6e^{12}}, \frac{10}{1467}\sqrt{1965e^{13}} + \frac{10}{1467}\sqrt{1290e^{45}},$ $\frac{100}{1467}\sqrt{15e^{27}} + \frac{40}{489}\sqrt{55e^{34}}$	$(\frac{20}{163}, -\frac{17}{489}, -\frac{86}{489}, \frac{112}{489}, -\frac{46}{163}, \frac{92}{163}, \frac{43}{489}, -\frac{26}{489}, \frac{26}{489})$ $+ \frac{10}{1467}\sqrt{10335e^6} \otimes e_9 + \frac{10}{489}\sqrt{1065e^4} \otimes e_5$	{1249, 1479, 23467, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:21	$0, 0, 0, 0, 0, 0, \frac{10}{3501}\sqrt{26273e^{12}}, \frac{10}{3501}\sqrt{16779e^{13}} + \frac{20}{1167}\sqrt{235e^{45}},$ $\frac{10}{3501}\sqrt{2867e^{27}} + \frac{20}{3501}\sqrt{6862e^{34}}$	$(\frac{1118}{3501}, -\frac{97}{3501}, -\frac{60}{389}, \frac{488}{1167}, -\frac{886}{3501}, -\frac{1232}{3501}, \frac{1021}{3501}, \frac{578}{3501}, \frac{308}{1167})$ $+ \frac{10}{1167}\sqrt{7661e^4} \otimes e_5 + \frac{10}{3501}\sqrt{76751e^1} \otimes e_6$	{1234, 1347, 24679, 469}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{2317}\sqrt{40494e^{12}}, \frac{2}{2317}\sqrt{227481e^{13}} + \frac{2}{2317}\sqrt{205249e^{45}},$ $\frac{4}{2317}\sqrt{70269e^{27}} + \frac{2}{2317}\sqrt{129819e^{34}}$	$(-\frac{684}{2317}, \frac{681}{2317}, \frac{571}{2317}, \frac{107}{2317}, -\frac{220}{2317}, -\frac{223}{2317}, -\frac{3}{2317}, -\frac{113}{2317}, \frac{678}{2317})$ $+ \frac{20}{2317}\sqrt{5955e^2} \otimes e_8 + \frac{4}{2317}\sqrt{51610e^3} \otimes e_6$	{123459, 156789, 24567, 358}
931:21	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{114e^{12}}, \frac{4}{51}\sqrt{19e^{13}} + \frac{2}{51}\sqrt{19e^{45}},$ $\frac{1}{51}\sqrt{1406e^{27}} + \frac{2}{51}\sqrt{399e^{34}}$	$(\frac{8}{51}, -\frac{7}{51}, -\frac{2}{51}, -\frac{4}{51}, \frac{10}{51}, 1, \frac{1}{51}, \frac{2}{17}, -\frac{2}{17})$ $+ \frac{5}{51}\sqrt{190e^6} \otimes e_9$	{12389, 1249, 13789, 1479, 23467, 2678, 346, 68}
931:21	$0, 0, 0, 0, 0, 0, \frac{2}{373}\sqrt{265e^{12}}, \frac{10}{373}\sqrt{265e^{13}} + \frac{7}{373}\sqrt{530e^{45}},$ $\frac{5}{373}\sqrt{106e^{27}} + \frac{1}{373}\sqrt{15370e^{34}}$	$(-\frac{4}{373}, \frac{41}{373}, -\frac{35}{373}, \frac{113}{373}, -\frac{152}{373}, \frac{226}{373}, \frac{37}{373}, -\frac{39}{373}, \frac{78}{373})$ $+ \frac{2}{373}\sqrt{24115e^6} \otimes e_8 + \frac{7}{373}\sqrt{1590e^4} \otimes e_5$	{12578, 158, 23589, 35789}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{130e^{12}}, \frac{1}{14}\sqrt{26e^{13}} + \frac{1}{14}\sqrt{39e^{45}},$ $\frac{1}{14}\sqrt{130e^{27}} + \frac{1}{14}\sqrt{26e^{34}}$	$(-\frac{3}{28}, \frac{2}{7}, \frac{9}{28}, \frac{1}{7}, \frac{1}{14}, -\frac{9}{14}, \frac{5}{28}, \frac{3}{14}, \frac{13}{28})$ $+ \frac{1}{14}\sqrt{299e^2} \otimes e_6$	{123489, 129, 1346789, 1679, 237, 2478, 36, 468}
931:21	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{799e^{12}}, \frac{4}{171}\sqrt{141e^{13}} + \frac{1}{171}\sqrt{3854e^{45}},$ $\frac{8}{171}\sqrt{94e^{27}} + \frac{1}{171}\sqrt{1974e^{34}}$	$(-\frac{37}{171}, \frac{28}{171}, \frac{2}{19}, \frac{1}{171}, -\frac{20}{171}, \frac{22}{57}, -\frac{19}{9}, -\frac{1}{9}, \frac{1}{9})$ $+ \frac{1}{171}\sqrt{9870e^2} \otimes e_8 + \frac{1}{57}\sqrt{470e^6} \otimes e_9$	{123459, 15789, 24567, 3568}
931:21	$0, 0, 0, 0, 0, 0, \frac{6}{353}\sqrt{646e^{12}}, \frac{102}{353}\sqrt{3e^{13}} + \frac{6}{353}\sqrt{1921e^{45}},$ $\frac{24}{353}\sqrt{102e^{27}} + \frac{6}{353}\sqrt{1105e^{34}}$	$(\frac{76}{353}, -\frac{71}{353}, \frac{49}{353}, -\frac{115}{353}, \frac{240}{353}, \frac{63}{353}, \frac{5}{353}, \frac{125}{353}, -\frac{66}{353})$ $+ \frac{6}{353}\sqrt{4930e^5} \otimes e_9$	{234567, 23457, 25678, 2578, 345, 3456, 568, 58}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{445e^{12}}, \frac{2}{169}\sqrt{2759e^{13}} + \frac{14}{169}\sqrt{89e^{45}},$ $\frac{4}{169}\sqrt{178e^{27}} + \frac{2}{169}\sqrt{4717e^{34}}$	$(\frac{40}{169}, \frac{17}{169}, \frac{7}{169}, \frac{67}{169}, -\frac{20}{169}, -\frac{111}{169}, \frac{57}{169}, \frac{47}{169}, \frac{74}{169})$ $+ \frac{4}{169}\sqrt{3115e^4} \otimes e_6$	{12348, 126, 13478, 167, 23679, 24789, 369, 489}
931:21	$0, 0, 0, 0, 0, 0, \frac{3}{1445}\sqrt{2990e^{12}}, \frac{18}{1445}\sqrt{55e^{13}} + \frac{9}{1445}\sqrt{430e^{45}},$ $\frac{3}{1445}\sqrt{4530e^{27}} + \frac{3}{289}\sqrt{74e^{34}}$	$(-\frac{93}{1445}, \frac{72}{1445}, \frac{24}{289}, -\frac{69}{1445}, \frac{96}{1445}, -\frac{138}{1445}, -\frac{21}{1445}, \frac{27}{1445}, \frac{3}{85})$ $+ \frac{3}{1445}\sqrt{2710e^1} \otimes e_6 + \frac{3}{1445}\sqrt{6910e^2} \otimes e_8 + \frac{6}{289}\sqrt{35e^5} \otimes e_9$	{24567, 3568}
931:21	$0, 0, 0, 0, 0, 0, \frac{4}{379}\sqrt{483e^{12}}, \frac{2}{1137}\sqrt{34615e^{13}} + \frac{2}{1137}\sqrt{56833e^{45}},$ $\frac{4}{1137}\sqrt{4830e^{27}} + \frac{2}{1137}\sqrt{47173e^{34}}$	$(\frac{72}{379}, -\frac{119}{1137}, \frac{31}{1137}, -\frac{53}{1137}, \frac{100}{379}, -\frac{125}{379}, \frac{97}{1137}, \frac{247}{1137}, -\frac{22}{1137})$ $+ \frac{44}{1137}\sqrt{161e^4} \otimes e_6 + \frac{8}{1137}\sqrt{5474e^5} \otimes e_9$	{23457, 25678, 345, 568}
931:21	$0, 0, 0, 0, 0, 0, \frac{50}{3141}\sqrt{77e^{12}}, \frac{10}{1047}\sqrt{385e^{13}} + \frac{70}{3141}\sqrt{385e^{45}},$ $\frac{20}{3141}\sqrt{5005e^{27}} + \frac{10}{3141}\sqrt{8855e^{34}}$	$(\frac{110}{349}, -\frac{655}{3141}, \frac{20}{1047}, -\frac{380}{3141}, \frac{1430}{3141}, -\frac{760}{3141}, \frac{335}{3141}, \frac{350}{1047}, -\frac{320}{3141})$ $+ \frac{10}{1047}\sqrt{6055e^5} \otimes e_9 + \frac{20}{3141}\sqrt{10255e^1} \otimes e_6$	{1239, 12489, 1379, 14789}
931:21	$0, 0, 0, 0, 0, 0, \frac{14}{813}\sqrt{494e^{12}}, \frac{2}{813}\sqrt{13699e^{13}} + \frac{2}{813}\sqrt{23009e^{45}},$ $\frac{32}{813}\sqrt{133e^{27}} + \frac{2}{271}\sqrt{665e^{34}}$	$(\frac{4}{271}, \frac{5}{813}, \frac{149}{813}, -\frac{127}{813}, \frac{96}{271}, -\frac{87}{271}, \frac{17}{813}, \frac{161}{813}, \frac{22}{813})$ $+ \frac{2}{813}\sqrt{49210e^5} \otimes e_9 + \frac{8}{813}\sqrt{2926e^2} \otimes e_6$	{23457, 2578, 3456, 568}
931:21	$0, 0, 0, 0, 0, 0, \frac{60}{169}\sqrt{e^{12}}, \frac{10}{169}\sqrt{17e^{13}} + \frac{10}{169}\sqrt{57e^{45}},$ $\frac{40}{169}\sqrt{3e^{27}} + \frac{10}{169}\sqrt{19e^{34}}$	$(-\frac{32}{169}, \frac{41}{169}, \frac{23}{169}, \frac{27}{169}, -\frac{36}{169}, -\frac{23}{169}, \frac{9}{169}, -\frac{9}{169}, \frac{50}{169})$ $+ \frac{20}{169}\sqrt{11e^4} \otimes e_6 + \frac{20}{169}\sqrt{26e^2} \otimes e_8$	{123459, 156789, 2457, 3568}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{15594e^{12}}, \frac{1}{271}\sqrt{12882e^{13}} + \frac{1}{271}\sqrt{69834e^{45}},$ $\frac{1}{271}\sqrt{15594e^{27}} + \frac{1}{271}\sqrt{12882e^{34}}$	$(\frac{46}{271}, \frac{4}{271}, \frac{88}{271}, -\frac{34}{271}, \frac{168}{271}, -\frac{171}{271}, \frac{50}{271}, \frac{134}{271}, \frac{54}{271})$ $+ \frac{1}{271}\sqrt{149838e^5} \otimes e_6$	{1234689, 1269, 1346789, 1679, 2367, 24678, 36, 468}
931:21	$0, 0, 0, 0, 0, 0, \frac{1}{405}\sqrt{11110e^{12}}, \frac{2}{405}\sqrt{2805e^{13}} + \frac{44}{405}\sqrt{5e^{45}},$ $\frac{2}{405}\sqrt{3355e^{27}} + \frac{2}{27}\sqrt{11e^{34}}$	$(-\frac{32}{405}, \frac{53}{405}, \frac{2}{27}, \frac{44}{405}, -\frac{46}{405}, -\frac{29}{135}, \frac{7}{135}, -\frac{2}{405}, \frac{74}{405})$ $+ \frac{1}{405}\sqrt{14190e^1} \otimes e_6 + \frac{2}{135}\sqrt{715e^2} \otimes e_8$	{123459, 15789, 24567, 3568}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{1601}\sqrt{269610e^{12}}, \frac{4}{1601}\sqrt{87978e^{35}} + \frac{18}{1601}\sqrt{1419e^{46}},$ $\frac{2}{1601}\sqrt{313599e^{17}} + \frac{55}{1601}\sqrt{258e^{34}}$	$(-\frac{252}{1601}, \frac{190}{1601}, -\frac{486}{1601}, \frac{172}{1601}, \frac{1105}{1601}, \frac{447}{1601}, -\frac{62}{1601}, \frac{619}{1601}, -\frac{314}{1601})$ $+ \frac{2}{1601}\sqrt{933702e^5} \otimes e_9$	{12389, 1249, 13457, 1578, 23789, 2479, 345, 58}
931:22	$0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{33e^{12}}, \frac{2}{39}\sqrt{11e^{35}} + \frac{1}{13}\sqrt{22e^{46}},$ $\frac{1}{39}\sqrt{110e^{17}} + \frac{1}{39}\sqrt{66e^{34}}$	$(-\frac{7}{39}, \frac{4}{13}, \frac{2}{13}, -\frac{8}{39}, -\frac{5}{39}, \frac{3}{13}, \frac{5}{39}, \frac{1}{39}, -\frac{2}{39})$ $+ \frac{1}{39}\sqrt{154e^3} \otimes e_5 + \frac{2}{39}\sqrt{77e^2} \otimes e_8 + \frac{2}{39}\sqrt{77e^6} \otimes e_9$	{15678, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{487}\sqrt{32010}e^{12}, \frac{1}{487}\sqrt{49170}e^{35} + \frac{3}{487}\sqrt{1870}e^{46},$ $\frac{1}{487}\sqrt{29370}e^{17} + \frac{11}{487}\sqrt{30}e^{34}$	$(-\frac{126}{487}, \frac{194}{487}, -\frac{78}{487}, \frac{20}{487}, \frac{107}{487}, \frac{9}{487}, \frac{68}{487}, \frac{29}{487}, -\frac{58}{487})$ $+ \frac{14}{487}\sqrt{330}e^5 \otimes e_9 + \frac{33}{487}\sqrt{70}e^2 \otimes e_8$	{129, 14578, 279, 458}
931:22	$0, 0, 0, 0, 0, 0, \frac{14}{4889}\sqrt{4030}e^{12}, \frac{2}{4889}\sqrt{1094765}e^{35} + \frac{4}{4889}\sqrt{62930}e^{46},$ $\frac{8}{4889}\sqrt{105245}e^{17} + \frac{2}{4889}\sqrt{252805}e^{34}$	$(\frac{673}{4889}, -\frac{1497}{4889}, -\frac{696}{4889}, \frac{545}{4889}, \frac{2019}{4889}, \frac{778}{4889}, -\frac{824}{4889}, \frac{1323}{4889}, -\frac{151}{4889})$ $+ \frac{2}{4889}\sqrt{2019185}e^1 \otimes e_2 + \frac{2}{4889}\sqrt{2692970}e^5 \otimes e_9$	{13457, 1578, 23789, 2479}
931:22	$0, 0, 0, 0, 0, 0, \frac{5}{392}\sqrt{978}e^{12}, \frac{1}{392}\sqrt{28851}e^{35} + \frac{1}{392}\sqrt{28851}e^{46},$ $\frac{1}{392}\sqrt{141810}e^{17} + \frac{1}{392}\sqrt{42054}e^{34}$	$(\frac{111}{196}, -\frac{267}{392}, \frac{177}{196}, \frac{177}{196}, \frac{13}{196}, \frac{13}{196}, -\frac{45}{392}, \frac{67}{196}, \frac{177}{392})$ $+ \frac{1}{392}\sqrt{310026}e^1 \otimes e_2$	{1357, 13678, 2345679, 234789, 256789, 279}
931:22	$0, 0, 0, 0, 0, 0, \frac{13}{4451}\sqrt{2334}e^{12}, \frac{104}{4451}\sqrt{30}e^{35} + \frac{130}{4451}\sqrt{33}e^{46},$ $\frac{26}{4451}\sqrt{985}e^{17} + \frac{91}{4451}\sqrt{42}e^{34}$	$(\frac{364}{4451}, -\frac{624}{4451}, \frac{182}{4451}, -\frac{78}{4451}, \frac{13}{4451}, \frac{273}{4451}, -\frac{260}{4451}, \frac{195}{4451}, \frac{104}{4451})$ $+ \frac{26}{4451}\sqrt{1479}e^1 \otimes e_8 + \frac{26}{4451}\sqrt{215}e^3 \otimes e_5 + \frac{26}{4451}\sqrt{690}e^6 \otimes e_9$	{129, 1467}
931:22	$0, 0, 0, 0, 0, 0, \frac{2}{83}\sqrt{41}e^{12}, \frac{1}{83}\sqrt{615}e^{35} + \frac{1}{83}\sqrt{615}e^{46},$ $\frac{2}{83}\sqrt{205}e^{17} + \frac{6}{83}\sqrt{82}e^{34}$	$(\frac{14}{83}, \frac{4}{83}, \frac{16}{83}, \frac{16}{83}, -\frac{25}{83}, -\frac{25}{83}, \frac{18}{83}, -\frac{9}{83}, \frac{32}{83})$ $+ \frac{1}{83}\sqrt{3157}e^3 \otimes e_5 - \frac{1}{83}\sqrt{3157}e^4 \otimes e_6$	{1234, 1256, 13679, 2347, 2567, 369}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{411}\sqrt{29866}e^{12}, \frac{1}{137}\sqrt{3270}e^{35} + \frac{1}{137}\sqrt{3270}e^{46},$ $\frac{1}{137}\sqrt{1090}e^{17} + \frac{1}{411}\sqrt{28122}e^{34}$	$(\frac{94}{411}, -\frac{74}{411}, \frac{19}{137}, \frac{19}{137}, -\frac{24}{137}, -\frac{24}{137}, \frac{20}{411}, -\frac{5}{137}, \frac{38}{137})$ $+ \frac{2}{411}\sqrt{18966}e^1 \otimes e_8$	{1234569, 129, 1357, 234789, 256789, 368}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{402}e^{12}, \frac{1}{53}\sqrt{402}e^{35} + \frac{1}{53}\sqrt{402}e^{46},$ $\frac{2}{53}\sqrt{134}e^{17} + \frac{1}{53}\sqrt{2814}e^{34}$	$(\frac{10}{53}, \frac{6}{53}, \frac{35}{53}, -\frac{9}{53}, -\frac{32}{53}, \frac{12}{53}, \frac{16}{53}, \frac{3}{53}, \frac{26}{53})$ $+ \frac{2}{53}\sqrt{1474}e^3 \otimes e_5$	{1234, 1256, 13679, 14579, 2347, 2567, 369, 459}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{1004}\sqrt{58110}e^{12}, \frac{5}{1004}\sqrt{447}e^{35} + \frac{5}{1004}\sqrt{447}e^{46},$ $\frac{1}{1004}\sqrt{204130}e^{17} + \frac{7}{1004}\sqrt{4470}e^{34}$	$(\frac{191}{502}, -\frac{363}{1004}, \frac{847}{2008}, -\frac{45}{2008}, -\frac{643}{2008}, \frac{249}{2008}, \frac{19}{1004}, \frac{51}{502}, \frac{401}{1004})$ $+ \frac{1}{502}\sqrt{166135}e^3 \otimes e_5 + \frac{21}{1004}\sqrt{1490}e^1 \otimes e_2$	{1347, 1567, 23679, 24579}
931:22	$0, 0, 0, 0, 0, 0, \frac{2}{2215}\sqrt{41613}e^{12}, \frac{4}{2215}\sqrt{32010}e^{35} + \frac{1}{2215}\sqrt{697818}e^{46},$ $\frac{1}{2215}\sqrt{527098}e^{17} + \frac{11}{2215}\sqrt{11058}e^{34}$	$(-\frac{91}{2215}, \frac{156}{2215}, \frac{694}{2215}, \frac{144}{443}, \frac{373}{2215}, \frac{1041}{2215}, \frac{13}{443}, \frac{321}{2215}, -\frac{26}{2215})$ $+ \frac{11}{2215}\sqrt{14938}e^3 \otimes e_5 + \frac{18}{2215}\sqrt{7469}e^6 \otimes e_9$	{1239, 13467, 2379, 346}
931:22	$0, 0, 0, 0, 0, 0, \frac{2}{83}\sqrt{41}e^{12}, \frac{1}{83}\sqrt{615}e^{35} + \frac{1}{83}\sqrt{615}e^{46},$ $\frac{2}{83}\sqrt{205}e^{17} + \frac{6}{83}\sqrt{82}e^{34}$	$(\frac{14}{83}, \frac{4}{83}, \frac{16}{83}, \frac{16}{83}, -\frac{25}{83}, -\frac{25}{83}, \frac{18}{83}, -\frac{9}{83}, \frac{32}{83})$ $+ \frac{1}{83}\sqrt{3157}e^3 \otimes e_5 + \frac{1}{83}\sqrt{3157}e^4 \otimes e_6$	{1234, 1256, 13679, 2347, 2567, 369}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{2530}e^{12}, \frac{1}{97}\sqrt{1870}e^{35} + \frac{1}{97}\sqrt{1870}e^{46},$ $\frac{2}{97}\sqrt{110}e^{17} + \frac{1}{97}\sqrt{110}e^{34}$	$(-\frac{14}{97}, \frac{46}{97}, \frac{23}{97}, -\frac{5}{97}, -\frac{32}{97}, -\frac{4}{97}, \frac{32}{97}, -\frac{9}{97}, \frac{18}{97})$ $+ \frac{2}{97}\sqrt{770}e^3 \otimes e_5 + \frac{4}{97}\sqrt{385}e^2 \otimes e_8$	{13478, 15678, 348, 568}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{66}e^{12}, \frac{1}{19}\sqrt{66}e^{35} + \frac{1}{19}\sqrt{66}e^{46},$ $\frac{2}{19}\sqrt{22}e^{17} + \frac{1}{19}\sqrt{66}e^{34}$	$(\frac{22}{95}, -\frac{18}{95}, \frac{11}{95}, \frac{3}{19}, -\frac{14}{95}, -\frac{18}{95}, \frac{4}{95}, -\frac{3}{95}, \frac{26}{95})$ $+ \frac{2}{19}\sqrt{2}e^3 \otimes e_5 + \frac{2}{19}\sqrt{42}e^1 \otimes e_8$	{1234569, 129, 1357, 1467}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{1258}e^{12}, \frac{1}{51}\sqrt{1110}e^{35} + \frac{1}{51}\sqrt{1110}e^{46},$ $\frac{2}{51}\sqrt{111}e^{17} + \frac{1}{17}\sqrt{74}e^{34}$	$(-\frac{14}{51}, \frac{2}{3}, \frac{1}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{20}{51}, -\frac{1}{17}, \frac{2}{17})$ $+ \frac{2}{51}\sqrt{777}e^2 \otimes e_8$	{1234569, 129, 13678, 2345679, 279, 368}
931:22	$0, 0, 0, 0, 0, 0, \frac{152}{1109}e^{12}, \frac{38}{1109}\sqrt{38}e^{35} + \frac{19}{1109}\sqrt{302}e^{46},$ $\frac{19}{1109}\sqrt{446}e^{17} + \frac{19}{1109}\sqrt{346}e^{34}$	$(\frac{133}{1109}, -\frac{228}{1109}, \frac{266}{1109}, -\frac{228}{1109}, -\frac{95}{1109}, \frac{399}{1109}, -\frac{95}{1109}, \frac{171}{1109}, \frac{38}{1109})$ $+ \frac{19}{1109}\sqrt{534}e^3 \otimes e_5 + \frac{38}{1109}\sqrt{146}e^1 \otimes e_2 + \frac{38}{1109}\sqrt{227}e^6 \otimes e_9$	{13467, 2379}
931:22	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{3458}e^{12}, \frac{16}{391}\sqrt{19}e^{35} + \frac{1}{391}\sqrt{2622}e^{46},$ $\frac{1}{391}\sqrt{5738}e^{17} + \frac{2}{391}\sqrt{589}e^{34}$	$(\frac{31}{391}, -\frac{47}{391}, -\frac{22}{391}, \frac{37}{391}, \frac{2}{23}, -\frac{25}{391}, -\frac{16}{391}, \frac{12}{391}, \frac{15}{391})$ $+ \frac{1}{391}\sqrt{8702}e^1 \otimes e_8 + \frac{2}{391}\sqrt{1121}e^5 \otimes e_9$	{129, 1357, 234789, 458}
931:23	$0, 0, 0, 0, 0, 0, \frac{11}{367}\sqrt{165}e^{12}, \frac{3}{367}\sqrt{715}e^{14} + \frac{1}{367}\sqrt{44715}e^{23},$ $\frac{3}{367}\sqrt{2035}e^{13} + \frac{18}{367}\sqrt{55}e^{27}$	$(\frac{29}{734}, \frac{8}{367}, \frac{16}{367}, \frac{19}{734}, \frac{189}{367}, -\frac{149}{367}, \frac{45}{734}, \frac{24}{367}, \frac{61}{734})$ $+ \frac{2}{367}\sqrt{14685}e^3 \otimes e_6 + \frac{40}{367}\sqrt{33}e^5 \otimes e_8$	{126789, 14569, 2468, 567}
931:23	$0, 0, 0, 0, 0, 0, \frac{3}{49}\sqrt{35}e^{12}, \frac{3}{49}\sqrt{21}e^{14} + \frac{5}{49}\sqrt{21}e^{23},$ $\frac{1}{49}\sqrt{399}e^{13} + \frac{3}{49}\sqrt{42}e^{27}$	$(\frac{5}{98}, \frac{1}{49}, \frac{2}{49}, \frac{1}{98}, \frac{24}{49}, -\frac{20}{49}, \frac{1}{14}, \frac{3}{49}, \frac{9}{98})$ $+ \frac{1}{49}\sqrt{798}e^5 \otimes e_8 + \frac{5}{49}\sqrt{42}e^2 \otimes e_6$	{123459, 136789, 2357, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:23	$0, 0, 0, 0, 0, \frac{1}{15}\sqrt{5}e^{12}, \frac{1}{15}\sqrt{5}e^{14} + \frac{1}{15}\sqrt{35}e^{23},$ $\frac{1}{15}\sqrt{35}e^{13} + \frac{2}{15}\sqrt{5}e^{27}$	$(\frac{1}{6}, 0, 0, -\frac{1}{6}, \frac{1}{3}, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{6})$ $+ \frac{2}{15}\sqrt{10}e^1 \otimes e_4 + \frac{2}{15}\sqrt{10}e^5 \otimes e_8 + \frac{2}{15}\sqrt{15}e^3 \otimes e_6$	{1569, 4567}
931:23	$0, 0, 0, 0, 0, \frac{54}{2753}\sqrt{177}e^{12}, \frac{54}{2753}\sqrt{761}e^{14} + \frac{162}{2753}\sqrt{13}e^{23},$ $\frac{216}{2753}\sqrt{11}e^{13} + \frac{54}{2753}\sqrt{2}e^{27}$	$(\frac{471}{2753}, \frac{3}{2753}, \frac{6}{2753}, -\frac{462}{2753}, \frac{1467}{2753}, -\frac{987}{2753}, \frac{474}{2753}, \frac{9}{2753}, \frac{477}{2753})$ $+ \frac{216}{2753}\sqrt{73}e^5 \otimes e_8 + \frac{54}{2753}\sqrt{1286}e^1 \otimes e_6$	{1289, 14579, 24678, 56}
931:23	$0, 0, 0, 0, 0, \frac{2}{2581}\sqrt{402990}e^{12}, \frac{6}{2581}\sqrt{21210}e^{14} + \frac{8}{2581}\sqrt{10605}e^{23},$ $\frac{2}{2581}\sqrt{340067}e^{13} + \frac{4}{2581}\sqrt{116655}e^{27}$	$(-\frac{62}{2581}, \frac{269}{2581}, \frac{538}{2581}, \frac{869}{2581}, -\frac{1145}{2581}, \frac{545}{2581}, \frac{207}{2581}, \frac{807}{2581}, \frac{476}{2581})$ $+ \frac{14}{2581}\sqrt{20806}e^2 \otimes e_5 + \frac{2}{2581}\sqrt{595294}e^4 \otimes e_6$	{12349, 1356789, 2367, 3458}
931:23	$0, 0, 0, 0, 0, \frac{1}{624}\sqrt{13631}e^{12}, \frac{1}{624}\sqrt{13631}e^{14} + \frac{1}{624}\sqrt{36138}e^{23},$ $\frac{7}{312}\sqrt{634}e^{13} + \frac{1}{78}\sqrt{634}e^{27}$	$(\frac{25}{156}, \frac{31}{416}, \frac{31}{208}, \frac{79}{1248}, -\frac{217}{624}, -\frac{14}{39}, \frac{293}{1248}, \frac{93}{416}, \frac{193}{624})$ $+ \frac{1}{312}\sqrt{44063}e^1 \otimes e_5 + \frac{1}{624}\sqrt{180690}e^3 \otimes e_6$	{1234, 1378, 23579, 34589}
931:23	$0, 0, 0, 0, 0, \frac{2}{287}\sqrt{314}e^{12}, \frac{2}{287}\sqrt{314}e^{14} + \frac{2}{287}\sqrt{6123}e^{23},$ $\frac{8}{287}\sqrt{785}e^{13} + \frac{2}{287}\sqrt{12874}e^{27}$	$(-\frac{5}{41}, \frac{4}{287}, \frac{8}{287}, \frac{47}{287}, 1, \frac{7}{41}, -\frac{31}{287}, \frac{12}{287}, -\frac{27}{287})$ $+ \frac{2}{287}\sqrt{37366}e^5 \otimes e_9$	{12469, 1249, 16789, 1789, 2567, 257, 4568, 458}
931:23	$0, 0, 0, 0, 0, \frac{3}{281}\sqrt{5681}e^{12}, \frac{13}{281}\sqrt{115}e^{14} + \frac{1}{281}\sqrt{18239}e^{23},$ $\frac{5}{281}\sqrt{2093}e^{13} + \frac{2}{281}\sqrt{598}e^{27}$	$(\frac{1}{2}, -\frac{6}{281}, -\frac{12}{281}, -\frac{317}{562}, \frac{45}{281}, \frac{45}{562}, -\frac{269}{281}, -\frac{18}{281}, \frac{257}{562})$ $+ \frac{2}{281}\sqrt{35282}e^1 \otimes e_4$	{13567, 1357, 137, 34569, 3459, 349}
931:23	$0, 0, 0, 0, 0, \frac{1}{296}\sqrt{13895}e^{12}, \frac{1}{592}\sqrt{30966}e^{14} + \frac{1}{592}\sqrt{91707}e^{23},$ $\frac{1}{592}\sqrt{91707}e^{13} + \frac{1}{592}\sqrt{45258}e^{27}$	$(-\frac{49}{1184}, \frac{143}{1184}, \frac{143}{592}, \frac{239}{592}, -\frac{127}{296}, -\frac{79}{296}, \frac{47}{592}, \frac{429}{1184}, \frac{237}{1184})$ $+ \frac{1}{296}\sqrt{43273}e^4 \otimes e_6 + \frac{1}{296}\sqrt{62329}e^3 \otimes e_5$	{1256789, 1459, 2458, 567}
931:23	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{989}e^{12}, \frac{1}{89}\sqrt{903}e^{14} + \frac{1}{89}\sqrt{2193}e^{23},$ $\frac{1}{89}\sqrt{301}e^{13} + \frac{4}{89}\sqrt{43}e^{27}$	$(\frac{9}{178}, \frac{8}{89}, \frac{16}{89}, \frac{39}{178}, -\frac{35}{89}, -\frac{27}{89}, \frac{25}{178}, \frac{24}{89}, \frac{41}{178})$ $+ \frac{2}{89}\sqrt{946}e^2 \otimes e_5 + \frac{6}{89}\sqrt{86}e^3 \otimes e_6$	{124689, 15679, 2678, 456}
931:23	$0, 0, 0, 0, 0, \frac{70}{2449}\sqrt{115}e^{12}, \frac{2}{2449}\sqrt{305095}e^{14} + \frac{2}{2449}\sqrt{182735}e^{23},$ $\frac{3}{2449}\sqrt{162610}e^{13} + \frac{8}{2449}\sqrt{15295}e^{27}$	$(-\frac{123}{2449}, -\frac{73}{2449}, -\frac{146}{2449}, \frac{96}{2449}, \frac{1391}{2449}, \frac{1341}{2449}, -\frac{196}{2449}, \frac{219}{2449}, -\frac{269}{2449})$ $+ \frac{46}{2449}\sqrt{1610}e^6 \otimes e_9 + \frac{4}{2449}\sqrt{222985}e^5 \otimes e_8$	{1234567, 1368, 2359, 34789}
931:23	$0, 0, 0, 0, 0, \frac{41}{6685}\sqrt{478}e^{12}, \frac{82}{6685}\sqrt{415}e^{14} + \frac{41}{6685}\sqrt{602}e^{23},$ $\frac{82}{6685}\sqrt{1178}e^{13} + \frac{41}{6685}\sqrt{186}e^{27}$	$(\frac{779}{6685}, -\frac{41}{6685}, -\frac{82}{6685}, -\frac{902}{6685}, \frac{2378}{6685}, -\frac{1763}{6685}, \frac{738}{6685}, -\frac{123}{6685}, \frac{697}{6685})$ $+ \frac{123}{6685}\sqrt{482}e^3 \otimes e_6 + \frac{82}{6685}\sqrt{1069}e^1 \otimes e_4 + \frac{82}{6685}\sqrt{986}e^5 \otimes e_9$	{1235, 23479}
931:23	$0, 0, 0, 0, 0, \frac{51}{1091}\sqrt{15}e^{12}, \frac{17}{1091}\sqrt{431}e^{14} + \frac{85}{1091}\sqrt{7}e^{23},$ $\frac{187}{1091}e^{13} + \frac{272}{1091}\sqrt{2}e^{27}$	$(-\frac{255}{2182}, \frac{34}{1091}, \frac{68}{1091}, \frac{459}{2182}, \frac{391}{1091}, -\frac{255}{1091}, -\frac{187}{2182}, \frac{102}{1091}, -\frac{119}{2182})$ $+ \frac{170}{1091}\sqrt{7}e^2 \otimes e_6 + \frac{170}{1091}\sqrt{7}e^4 \otimes e_9 + \frac{68}{1091}\sqrt{37}e^5 \otimes e_8$	{136789, 3468}
931:23	$0, 0, 0, 0, 0, \frac{1}{289}\sqrt{47897}e^{12}, \frac{1}{289}\sqrt{7491}e^{14} + \frac{1}{289}\sqrt{25197}e^{23},$ $\frac{1}{289}\sqrt{30191}e^{13} + \frac{10}{289}\sqrt{454}e^{27}$	$(\frac{45}{578}, \frac{28}{289}, \frac{56}{289}, \frac{123}{578}, -\frac{199}{289}, \frac{45}{289}, \frac{101}{578}, \frac{84}{289}, \frac{157}{578})$ $+ \frac{2}{289}\sqrt{27694}e^2 \otimes e_5$	{12369, 1239, 13456789, 1345789, 23467, 2347, 3568, 358}
931:23	$0, 0, 0, 0, 0, \frac{6}{71}\sqrt{19}e^{12}, \frac{6}{71}\sqrt{19}e^{14} + \frac{2}{71}\sqrt{57}e^{23},$ $\frac{2}{71}\sqrt{57}e^{13} + \frac{4}{71}\sqrt{57}e^{27}$	$(\frac{7}{71}, \frac{6}{71}, \frac{12}{71}, \frac{11}{71}, 1, -\frac{43}{71}, \frac{13}{71}, \frac{18}{71}, \frac{19}{71})$ $+ \frac{114}{71}e^5 \otimes e_6$	{12589, 12689, 14579, 14679, 24578, 24678, 5, 6}
931:23	$0, 0, 0, 0, 0, \frac{7}{724}\sqrt{1059}e^{12}, \frac{7}{724}\sqrt{1059}e^{14} + \frac{1}{362}\sqrt{18003}e^{23},$ $\frac{7}{724}\sqrt{180030}e^{13} + \frac{1}{362}\sqrt{706}e^{27}$	$(-\frac{45}{724}, \frac{61}{1448}, \frac{61}{724}, \frac{273}{1448}, \frac{369}{724}, -\frac{73}{181}, -\frac{29}{1448}, \frac{183}{1448}, \frac{4}{181})$ $+ \frac{1}{724}\sqrt{250630}e^3 \otimes e_6 + \frac{3}{362}\sqrt{6001}e^5 \otimes e_9$	{12357, 13458, 2349, 3789}
931:23	$0, 0, 0, 0, 0, \frac{6}{839}\sqrt{2135}e^{12}, \frac{6}{839}\sqrt{2135}e^{14} + \frac{2}{839}\sqrt{28731}e^{23},$ $\frac{4}{839}\sqrt{10065}e^{13} + \frac{6}{839}\sqrt{2562}e^{27}$	$(\frac{53}{839}, \frac{11}{839}, \frac{22}{839}, -\frac{20}{839}, \frac{441}{839}, \frac{313}{839}, \frac{64}{839}, \frac{33}{839}, \frac{75}{839})$ $+ \frac{2}{839}\sqrt{72834}e^1 \otimes e_6 + \frac{4}{839}\sqrt{16287}e^5 \otimes e_9$	{1249, 1789, 2567, 4568}
931:23	$0, 0, 0, 0, 0, \frac{2}{805}\sqrt{7491}e^{12}, \frac{2}{805}\sqrt{47897}e^{14} + \frac{2}{805}\sqrt{30191}e^{23},$ $\frac{2}{805}\sqrt{25197}e^{13} + \frac{4}{161}\sqrt{454}e^{27}$	$(-\frac{199}{805}, \frac{8}{115}, \frac{16}{115}, \frac{367}{805}, \frac{317}{805}, -\frac{137}{805}, -\frac{143}{805}, \frac{24}{115}, -\frac{87}{805})$ $+ \frac{454}{805}e^5 \otimes e_6 + \frac{4}{805}\sqrt{27694}e^4 \otimes e_9$	{1345, 1346, 3579, 3679}
931:23	$0, 0, 0, 0, 0, \frac{1}{89}\sqrt{903}e^{12}, \frac{1}{89}\sqrt{989}e^{14} + \frac{1}{89}\sqrt{301}e^{23},$ $\frac{1}{89}\sqrt{2193}e^{13} + \frac{4}{89}\sqrt{43}e^{27}$	$(-\frac{35}{178}, \frac{8}{89}, \frac{16}{89}, \frac{83}{178}, -\frac{27}{89}, \frac{9}{89}, -\frac{19}{178}, \frac{24}{89}, -\frac{3}{178})$ $+ \frac{2}{89}\sqrt{946}e^4 \otimes e_9 + \frac{6}{89}\sqrt{86}e^3 \otimes e_5$	{123467, 12347, 2369, 239}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:23	$0, 0, 0, 0, 0, 0, \frac{96}{3509}\sqrt{47}e^{12}, \frac{6}{3509}\sqrt{52170}e^{14} + \frac{18}{3509}\sqrt{4371}e^{23},$ $\frac{12}{3509}\sqrt{8930}e^{13} + \frac{60}{3509}\sqrt{329}e^{27}$	$(-\frac{325}{3509}, \frac{196}{3509}, \frac{392}{3509}, \frac{83}{319}, -\frac{1171}{3509}, \frac{315}{3509}, -\frac{129}{3509}, \frac{588}{3509}, \frac{67}{3509})$ $+ \frac{12}{3509}\sqrt{20069}e^4 \otimes e_9 + \frac{6}{3509}\sqrt{69842}e^1 \otimes e_5$	{16789, 1789, 4568, 458}
931:23	$0, 0, 0, 0, 0, 0, \frac{58}{381}\sqrt{6}e^{12}, \frac{2}{127}\sqrt{290}e^{14} + \frac{2}{381}\sqrt{4611}e^{23},$ $\frac{4}{127}\sqrt{290}e^{13} + \frac{2}{381}\sqrt{4002}e^{27}$	$(\frac{21}{127}, -\frac{16}{381}, -\frac{32}{381}, -\frac{37}{127}, \frac{205}{381}, \frac{35}{381}, \frac{47}{381}, -\frac{16}{127}, \frac{31}{381})$ $+ \frac{2}{381}\sqrt{14790}e^5 \otimes e_9 + \frac{8}{381}\sqrt{957}e^1 \otimes e_4$	{1269, 129, 24567, 2457}
931:23	$0, 0, 0, 0, 0, 0, \frac{5}{57}\sqrt{19}e^{12}, \frac{1}{57}\sqrt{19}e^{14} + \frac{1}{57}\sqrt{323}e^{23},$ $\frac{1}{57}\sqrt{133}e^{13} + \frac{4}{57}\sqrt{19}e^{27}$	$(\frac{1}{6}, 0, 0, -\frac{1}{6}, \frac{1}{3}, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{6})$ $+ \frac{2}{57}\sqrt{133}e^1 \otimes e_4 + \frac{2}{57}\sqrt{133}e^5 \otimes e_8 + \frac{4}{57}\sqrt{57}e^2 \otimes e_6$	{136789, 3468}
931:23	$0, 0, 0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{3}{281}\sqrt{5681}e^{14} + \frac{5}{281}\sqrt{2093}e^{23},$ $\frac{1}{281}\sqrt{18239}e^{13} + \frac{2}{281}\sqrt{598}e^{27}$	$(\frac{45}{562}, -\frac{6}{281}, -\frac{12}{281}, -\frac{81}{562}, 1, \frac{45}{281}, \frac{33}{562}, -\frac{18}{281}, \frac{21}{562})$ $+ \frac{2}{281}\sqrt{35282}e^5 \otimes e_8$	{12345679, 1234579, 13689, 1389, 235, 2356, 34678, 3478}
931:23	$0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{9869}e^{12}, \frac{2}{291}\sqrt{9869}e^{14} + \frac{2}{291}\sqrt{7923}e^{23},$ $\frac{16}{291}\sqrt{139}e^{13} + \frac{2}{291}\sqrt{1946}e^{27}$	$(\frac{85}{291}, \frac{7}{97}, \frac{14}{97}, -\frac{22}{291}, -\frac{193}{291}, \frac{49}{291}, \frac{106}{291}, \frac{21}{97}, \frac{127}{291})$ $+ \frac{22}{291}\sqrt{278}e^1 \otimes e_5$	{12469, 1249, 16789, 1789, 2567, 257, 4568, 458}
931:23	$0, 0, 0, 0, 0, 0, \frac{77}{1999}\sqrt{6}e^{12}, \frac{11}{1999}\sqrt{3810}e^{14} + \frac{66}{1999}\sqrt{42}e^{23},$ $\frac{99}{1999}\sqrt{22}e^{13} + \frac{33}{1999}\sqrt{202}e^{27}$	$(-\frac{154}{1999}, \frac{55}{1999}, \frac{110}{1999}, \frac{319}{1999}, \frac{528}{1999}, -\frac{517}{1999}, -\frac{99}{1999}, \frac{165}{1999}, -\frac{44}{1999})$ $+ \frac{11}{1999}\sqrt{2238}e^5 \otimes e_8 + \frac{11}{1999}\sqrt{4794}e^4 \otimes e_9 + \frac{264}{1999}\sqrt{7}e^1 \otimes e_6$	{1789, 468}
931:23	$0, 0, 0, 0, 0, 0, \frac{3}{95}\sqrt{78}e^{12}, \frac{3}{95}\sqrt{102}e^{14} + \frac{6}{95}\sqrt{21}e^{23},$ $\frac{9}{95}\sqrt{10}e^{13} + \frac{9}{95}\sqrt{2}e^{27}$	$(-\frac{12}{95}, \frac{3}{95}, \frac{6}{95}, \frac{21}{95}, \frac{36}{95}, -\frac{21}{95}, -\frac{9}{95}, \frac{9}{95}, -\frac{6}{95})$ $+ \frac{3}{95}\sqrt{174}e^5 \otimes e_8 + \frac{3}{95}\sqrt{186}e^4 \otimes e_9 + \frac{6}{95}\sqrt{42}e^3 \otimes e_6$	{123457, 2359}
931:23	$0, 0, 0, 0, 0, 0, \frac{8}{3509}\sqrt{21814}e^{12}, \frac{2}{3509}\sqrt{934646}e^{14} + \frac{2}{3509}\sqrt{474035}e^{23},$ $\frac{4}{3509}\sqrt{66281}e^{13} + \frac{20}{3509}\sqrt{1678}e^{27}$	$(\frac{267}{3509}, \frac{300}{3509}, \frac{600}{3509}, \frac{633}{3509}, -\frac{1411}{3509}, -\frac{915}{3509}, \frac{567}{3509}, \frac{900}{3509}, \frac{867}{3509})$ $+ \frac{2}{3509}\sqrt{1478318}e^1 \otimes e_5 + \frac{4}{3509}\sqrt{292811}e^4 \otimes e_6$	{1249, 16789, 2567, 458}
931:23	$0, 0, 0, 0, 0, 0, \frac{3}{142}\sqrt{119}e^{12}, \frac{3}{284}\sqrt{8806}e^{14} + \frac{1}{284}\sqrt{15351}e^{23},$ $\frac{284}{142}\sqrt{15351}e^{13} + \frac{1}{284}\sqrt{22134}e^{27}$	$(-\frac{67}{568}, \frac{93}{568}, \frac{93}{284}, \frac{173}{284}, -\frac{46}{71}, \frac{25}{142}, \frac{13}{284}, \frac{279}{568}, \frac{119}{568})$ $+ \frac{3}{142}\sqrt{4641}e^4 \otimes e_5$	{12467, 1247, 1568, 158, 2569, 259, 46789, 4789}
931:23	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{7491}e^{12}, \frac{1}{289}\sqrt{47897}e^{14} + \frac{1}{289}\sqrt{30191}e^{23},$ $\frac{1}{289}\sqrt{25197}e^{13} + \frac{10}{289}\sqrt{454}e^{27}$	$(-\frac{199}{578}, \frac{28}{289}, \frac{56}{289}, \frac{367}{578}, \frac{45}{289}, \frac{45}{289}, -\frac{143}{578}, \frac{84}{289}, -\frac{87}{578})$ $+ \frac{2}{289}\sqrt{27694}e^4 \otimes e_9$	{134, 1345, 13456, 35679, 3579, 379}
931:23	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{1365}e^{12}, \frac{1}{67}\sqrt{1365}e^{14} + \frac{1}{67}\sqrt{3315}e^{23},$ $\frac{1}{67}\sqrt{3315}e^{13} + \frac{2}{67}\sqrt{455}e^{27}$	$(\frac{9}{134}, \frac{8}{67}, \frac{16}{67}, \frac{39}{134}, -\frac{49}{67}, \frac{9}{67}, \frac{25}{134}, \frac{24}{67}, \frac{41}{134})$ $+ \frac{2}{67}\sqrt{1885}e^3 \otimes e_5$	{12456789, 1245789, 1569, 159, 2568, 258, 4567, 457}
931:23	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{5681}e^{12}, \frac{26}{861}\sqrt{115}e^{14} + \frac{2}{861}\sqrt{18239}e^{23},$ $\frac{10}{861}\sqrt{2093}e^{13} + \frac{4}{861}\sqrt{598}e^{27}$	$(\frac{281}{861}, -\frac{4}{287}, -\frac{8}{287}, -\frac{317}{861}, \frac{389}{861}, -\frac{209}{861}, \frac{269}{861}, -\frac{12}{257}, \frac{257}{861})$ $+ \frac{4}{861}\sqrt{35282}e^1 \otimes e_4 + \frac{598}{861}e^5 \otimes e_6$	{1357, 1367, 3459, 3469}
931:23	$0, 0, 0, 0, 0, 0, \frac{18}{2777}\sqrt{4531}e^{12}, \frac{6}{2777}\sqrt{8763}e^{14} + \frac{6}{2777}\sqrt{9867}e^{23},$ $\frac{54}{2777}\sqrt{46}e^{13} + \frac{48}{2777}\sqrt{966}e^{27}$	$(-\frac{111}{2777}, \frac{105}{2777}, \frac{210}{2777}, \frac{426}{2777}, \frac{1341}{2777}, -\frac{1137}{2777}, -\frac{6}{2777}, \frac{315}{2777}, \frac{99}{2777})$ $+ \frac{12}{2777}\sqrt{24771}e^2 \otimes e_6 + \frac{6}{2777}\sqrt{71898}e^5 \otimes e_9$	{1239, 1346789, 23457, 3568}
931:23	$0, 0, 0, 0, 0, 0, \frac{86}{4477}\sqrt{202}e^{12}, \frac{43}{4477}\sqrt{10}e^{14} + \frac{86}{4477}\sqrt{103}e^{23},$ $\frac{43}{4477}\sqrt{2042}e^{13} + \frac{86}{4477}\sqrt{201}e^{27}$	$(\frac{602}{4477}, -\frac{215}{4477}, -\frac{430}{4477}, -\frac{1247}{4477}, \frac{1204}{4477}, \frac{2021}{4477}, \frac{387}{4477}, -\frac{645}{4477}, \frac{172}{4477})$ $+ \frac{129}{4477}\sqrt{182}e^5 \otimes e_8 + \frac{43}{4477}\sqrt{3274}e^1 \otimes e_4 + \frac{86}{4477}\sqrt{818}e^6 \otimes e_9$	{1259, 24567}
931:23	$0, 0, 0, 0, 0, 0, \frac{13}{1983}\sqrt{2814}e^{12}, \frac{13}{661}\sqrt{110}e^{14} + \frac{13}{1983}\sqrt{174}e^{23},$ $\frac{26}{661}\sqrt{35}e^{13} + \frac{13}{1983}\sqrt{2418}e^{27}$	$(\frac{78}{661}, \frac{13}{1983}, -\frac{26}{1983}, -\frac{91}{661}, \frac{715}{1983}, -\frac{520}{1983}, \frac{221}{1983}, -\frac{13}{661}, \frac{208}{1983})$ $+ \frac{13}{1983}\sqrt{3558}e^1 \otimes e_4 + \frac{195}{661}\sqrt{2}e^2 \otimes e_6 + \frac{52}{1983}\sqrt{210}e^5 \otimes e_9$	{129, 2457}
931:23	$0, 0, 0, 0, 0, 0, \frac{2}{3069}\sqrt{68810}e^{12}, \frac{2}{3069}\sqrt{552446}e^{14} + \frac{2}{3069}\sqrt{366659}e^{23},$ $\frac{4}{1023}\sqrt{9830}e^{13} + \frac{2}{3069}\sqrt{595698}e^{27}$	$(-\frac{57}{341}, \frac{16}{279}, \frac{32}{279}, \frac{347}{1023}, \frac{1805}{3069}, -\frac{925}{3069}, -\frac{337}{3069}, \frac{16}{93}, -\frac{161}{3069})$ $+ \frac{2}{3069}\sqrt{1441078}e^5 \otimes e_9 + \frac{8}{3069}\sqrt{77657}e^4 \otimes e_6$	{1235678, 1345, 23489, 3679}
931:23	$0, 0, 0, 0, 0, 0, \frac{4}{1215}\sqrt{8870}e^{12}, \frac{2}{3645}\sqrt{1154874}e^{14} + \frac{8}{3645}\sqrt{27497}e^{23},$ $\frac{2}{3645}\sqrt{352139}e^{13} + \frac{2}{3645}\sqrt{65638}e^{27}$	$(-\frac{224}{3645}, \frac{37}{1215}, \frac{74}{1215}, \frac{557}{3645}, \frac{2107}{3645}, -\frac{1217}{3645}, -\frac{113}{3645}, \frac{37}{405}, -\frac{2}{3645})$ $+ \frac{2}{3645}\sqrt{1364206}e^4 \otimes e_6 + \frac{2}{3645}\sqrt{1584182}e^5 \otimes e_8$	{12678, 145, 2489, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:23	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{9379e^{12}}, \frac{1}{275}\sqrt{9379e^{14}} + \frac{1}{275}\sqrt{1469e^{23}},$ $\frac{1}{275}\sqrt{1469e^{13}} + \frac{8}{275}\sqrt{339e^{27}}$	$(-\frac{91}{550}, \frac{2}{25}, \frac{4}{25}, \frac{223}{550}, -\frac{91}{275}, \frac{31}{275}, -\frac{47}{550}, \frac{6}{25}, -\frac{3}{550})$ $+ \frac{2}{275}\sqrt{6893e^2} \otimes e_5 + \frac{2}{275}\sqrt{6893e^4} \otimes e_9$	{123689, 12389, 234678, 23478}
931:23	$0, 0, 0, 0, 0, 0, \frac{14}{2505}\sqrt{8927e^{12}}, \frac{2}{2505}\sqrt{98987e^{14}} + \frac{2}{2505}\sqrt{18249e^{23}},$ $\frac{8}{2505}\sqrt{2765e^{13}} + \frac{14}{2505}\sqrt{5846e^{27}}$	$(\frac{391}{2505}, \frac{11}{167}, \frac{22}{167}, \frac{104}{2505}, -\frac{143}{501}, -\frac{941}{2505}, \frac{556}{2505}, \frac{33}{167}, \frac{721}{2505})$ $+ \frac{2}{2505}\sqrt{551894e^1} \otimes e_5 + \frac{4}{835}\sqrt{18802e^2} \otimes e_6$	{12349, 136789, 2357, 34568}
931:23	$0, 0, 0, 0, 0, 0, \frac{3}{367}\sqrt{715e^{12}}, \frac{11}{367}\sqrt{165e^{14}} + \frac{3}{367}\sqrt{2035e^{23}},$ $\frac{3}{367}\sqrt{44715e^{13}} + \frac{18}{367}\sqrt{55e^{27}}$	$(\frac{189}{734}, \frac{8}{367}, \frac{16}{367}, -\frac{141}{734}, -\frac{149}{367}, \frac{29}{367}, \frac{205}{734}, \frac{24}{367}, \frac{221}{734})$ $+ \frac{2}{367}\sqrt{14685e^3} \otimes e_5 + \frac{40}{367}\sqrt{33e^1} \otimes e_4$	{123, 1236, 234679, 23479}
931:23	$0, 0, 0, 0, 0, 0, \frac{1}{267}\sqrt{8695e^{12}}, \frac{1}{267}\sqrt{8695e^{14}} + \frac{5}{267}\sqrt{407e^{23}},$ $\frac{5}{267}\sqrt{407e^{13}} + \frac{4}{267}\sqrt{185e^{27}}$	$(\frac{149}{534}, -\frac{4}{89}, -\frac{8}{89}, -\frac{221}{534}, \frac{149}{267}, \frac{31}{267}, \frac{125}{534}, -\frac{12}{89}, \frac{101}{534})$ $+ \frac{2}{267}\sqrt{10915e^1} \otimes e_4 + \frac{2}{267}\sqrt{10915e^5} \otimes e_8$	{13678, 1378, 34689, 3489}
931:24	$0, 0, 0, 0, 0, 0, \frac{7}{81}\sqrt{70e^{12}}, \frac{2}{81}\sqrt{595e^{13}} + \frac{1}{81}\sqrt{1330e^{24}},$ $\frac{7}{81}\sqrt{70e^{17}} + \frac{1}{81}\sqrt{1330e^{35}}$	$(\frac{5}{27}, -\frac{2}{81}, \frac{11}{162}, \frac{5}{18}, \frac{5}{18}, -\frac{55}{81}, \frac{13}{81}, \frac{41}{162}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595e^1} \otimes e_6$	{12359, 12489, 1347, 1578, 23456789, 2679, 368, 456}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{80}\sqrt{290e^{12}}, \frac{1}{80}\sqrt{406e^{13}} + \frac{1}{120}\sqrt{4002e^{24}},$ $\frac{1}{240}\sqrt{7917e^{17}} + \frac{1}{240}\sqrt{7917e^{35}}$	$(\frac{11}{160}, \frac{17}{80}, \frac{1}{160}, \frac{23}{80}, -\frac{13}{160}, \frac{7}{16}, -\frac{23}{160}, \frac{3}{40}, -\frac{3}{40})$ $+ \frac{1}{240}\sqrt{13746e^6} \otimes e_8 + \frac{3}{80}\sqrt{290e^4} \otimes e_9$	{12467, 1569, 23456, 3679}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{494e^{12}}, \frac{2}{77}\sqrt{323e^{13}} + \frac{1}{77}\sqrt{494e^{24}},$ $\frac{1}{77}\sqrt{494e^{17}} + \frac{1}{77}\sqrt{494e^{35}}$	$(\frac{13}{77}, -\frac{4}{77}, -\frac{29}{154}, \frac{5}{154}, \frac{73}{154}, -\frac{25}{77}, \frac{9}{77}, -\frac{3}{154}, \frac{2}{7})$ $+ \frac{2}{77}\sqrt{646e^1} \otimes e_6 + \frac{2}{77}\sqrt{646e^5} \otimes e_8$	{1357, 1478, 236789, 245679}
931:24	$0, 0, 0, 0, 0, 0, \frac{12}{331}\sqrt{11e^{12}}, \frac{6}{331}\sqrt{1155e^{13}} + \frac{72}{331}\sqrt{11e^{24}},$ $\frac{6}{331}\sqrt{1199e^{17}} + \frac{6}{331}\sqrt{1199e^{35}}$	$(\frac{43}{331}, -\frac{97}{331}, \frac{47}{331}, \frac{187}{331}, -\frac{58}{331}, \frac{51}{331}, -\frac{54}{331}, \frac{90}{331}, -\frac{11}{331})$ $+ \frac{12}{331}\sqrt{770e^4} \otimes e_9$	{123689, 12389, 1345678, 134578, 256789, 25789, 468, 48}
931:24	$0, 0, 0, 0, 0, 0, \frac{3}{29}\sqrt{5e^{12}}, \frac{6}{29}e^{13} + \frac{12}{29}e^{24}, \frac{3}{29}\sqrt{6e^{17}} + \frac{3}{29}\sqrt{6e^{35}}$	$(0, -\frac{3}{29}, \frac{3}{29}, \frac{6}{29}, -\frac{6}{29}, \frac{12}{29}, -\frac{3}{29}, \frac{3}{29}, -\frac{3}{29})$ $+ \frac{3}{29}\sqrt{11e^3} \otimes e_5 + \frac{3}{29}\sqrt{19e^6} \otimes e_8 + \frac{3}{29}\sqrt{23e^4} \otimes e_9$	{1369, 5679}
931:24	$0, 0, 0, 0, 0, 0, \frac{120}{809}\sqrt{2e^{12}}, \frac{96}{809}e^{13} + \frac{12}{809}\sqrt{446e^{24}},$ $\frac{12}{809}\sqrt{218e^{17}} + \frac{12}{809}\sqrt{802e^{35}}$	$(-\frac{12}{809}, \frac{84}{809}, -\frac{108}{809}, -\frac{204}{809}, \frac{168}{809}, \frac{348}{809}, \frac{72}{809}, -\frac{120}{809}, \frac{60}{809})$ $+ \frac{12}{809}\sqrt{1086e^6} \otimes e_9 + \frac{312}{809}e^2 \otimes e_4 + \frac{48}{809}\sqrt{73e^5} \otimes e_8$	{12389, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{567}\sqrt{7378e^{12}}, \frac{2}{567}\sqrt{5593e^{13}} + \frac{2}{567}\sqrt{23086e^{24}},$ $\frac{2}{81}\sqrt{85e^{17}} + \frac{2}{567}\sqrt{13447e^{35}}$	$(\frac{5}{27}, -\frac{11}{81}, -\frac{5}{27}, \frac{11}{81}, \frac{34}{81}, -\frac{23}{81}, \frac{4}{81}, 0, \frac{19}{81})$ $+ \frac{4}{189}\sqrt{714e^4} \otimes e_6 + \frac{4}{567}\sqrt{8806e^5} \otimes e_8$	{1356, 148, 23689, 2459}
931:24	$0, 0, 0, 0, 0, 0, \frac{184}{2593}\sqrt{3e^{12}}, \frac{46}{2593}\sqrt{255e^{13}} + \frac{92}{2593}\sqrt{174e^{24}},$ $\frac{46}{2593}\sqrt{409e^{17}} + \frac{46}{2593}\sqrt{813e^{35}}$	$(\frac{191}{2593}, -\frac{351}{2593}, \frac{547}{2593}, \frac{1089}{2593}, -\frac{516}{2593}, -\frac{511}{2593}, -\frac{160}{2593}, \frac{738}{2593}, \frac{31}{2593})$ $+ \frac{184}{2593}\sqrt{93e^4} \otimes e_9 + \frac{92}{2593}\sqrt{202e^3} \otimes e_6$	{12467, 1569, 2345, 379}
931:24	$0, 0, 0, 0, 0, 0, \frac{10}{83}\sqrt{43e^{12}}, \frac{2}{83}\sqrt{731e^{13}} + \frac{10}{83}\sqrt{43e^{24}},$ $\frac{4}{83}\sqrt{86e^{17}} + \frac{4}{83}\sqrt{86e^{35}}$	$(-\frac{1}{83}, \frac{33}{83}, \frac{24}{83}, -\frac{10}{83}, \frac{7}{83}, -\frac{53}{83}, \frac{32}{83}, \frac{23}{83}, \frac{31}{83})$ $+ \frac{4}{83}\sqrt{731e^2} \otimes e_6$	{12389, 12459, 1345678, 167, 23479, 25789, 356, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{6}{2857}\sqrt{18430e^{12}}, \frac{6}{2857}\sqrt{25705e^{13}} + \frac{6}{2857}\sqrt{46366e^{24}},$ $\frac{6}{2857}\sqrt{16781e^{17}} + \frac{6}{2857}\sqrt{58103e^{35}}$	$(\frac{63}{2857}, \frac{645}{2857}, -\frac{519}{2857}, -\frac{1101}{2857}, \frac{1290}{2857}, \frac{345}{2857}, \frac{708}{2857}, -\frac{456}{2857}, \frac{771}{2857})$ $+ \frac{12}{2857}\sqrt{37442e^5} \otimes e_8 + \frac{132}{2857}\sqrt{194e^2} \otimes e_4$	{1268, 128, 34689, 3489}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{105}\sqrt{57e^{12}}, \frac{2}{35}\sqrt{209e^{13}} + \frac{4}{105}\sqrt{57e^{24}},$ $\frac{2}{35}\sqrt{95e^{17}} + \frac{2}{105}\sqrt{1653e^{35}}$	$(\frac{1}{35}, \frac{5}{21}, \frac{43}{105}, \frac{1}{5}, -\frac{4}{35}, -\frac{71}{105}, \frac{15}{15}, \frac{46}{105}, \frac{31}{105})$ $+ \frac{4}{105}\sqrt{1254e^3} \otimes e_6$	{12379, 12456789, 1345, 168, 23489, 2569, 3578, 467}
931:24	$0, 0, 0, 0, 0, 0, \frac{11}{824}\sqrt{590e^{12}}, \frac{11}{824}\sqrt{1410e^{13}} + \frac{11}{824}\sqrt{1230e^{24}},$ $\frac{33}{824}\sqrt{15e^{17}} + \frac{33}{824}\sqrt{15e^{35}}$	$(\frac{37}{1648}, \frac{23}{824}, \frac{665}{1648}, \frac{41}{103}, -\frac{545}{1648}, -\frac{277}{824}, \frac{83}{1648}, \frac{351}{824}, \frac{15}{206})$ $+ \frac{11}{412}\sqrt{910e^4} \otimes e_6 + \frac{11}{824}\sqrt{3730e^3} \otimes e_5$	{136, 1458, 3478, 567}
931:24	$0, 0, 0, 0, 0, 0, \frac{3}{202}\sqrt{65e^{12}}, \frac{3}{202}\sqrt{34e^{13}} + \frac{3}{101}\sqrt{55e^{24}},$ $\frac{3}{202}\sqrt{2e^{17}} + \frac{3}{101}\sqrt{7e^{35}}$	$(\frac{9}{101}, -\frac{12}{101}, -\frac{6}{101}, \frac{15}{101}, \frac{12}{101}, -\frac{15}{101}, -\frac{3}{101}, \frac{3}{101}, \frac{6}{101})$ $+ \frac{3}{202}\sqrt{179e^3} \otimes e_6 + \frac{3}{202}\sqrt{281e^4} \otimes e_9 + \frac{51}{202}e^5 \otimes e_8$	{123457, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:24	$0, 0, 0, 0, 0, 0, \frac{9}{197}\sqrt{14}e^{12}, \frac{9}{197}\sqrt{118}e^{13} + \frac{6}{197}\sqrt{57}e^{24},$ $\frac{6}{197}\sqrt{51}e^{17} + \frac{6}{197}\sqrt{51}e^{35}$	$(-\frac{27}{197}, \frac{45}{197}, \frac{36}{197}, -\frac{36}{197}, -\frac{45}{197}, \frac{90}{197}, \frac{18}{197}, \frac{9}{197}, -\frac{9}{197})$ $+ \frac{18}{197}\sqrt{35}e^3 \otimes e_5 + \frac{3}{197}\sqrt{1374}e^6 \otimes e_8 + \frac{9}{197}\sqrt{74}e^2 \otimes e_4$	{1458, 3478}
931:24	$0, 0, 0, 0, 0, 0, \frac{210}{1697}\sqrt{2}e^{12}, \frac{42}{1697}\sqrt{205}e^{13} + \frac{42}{1697}\sqrt{94}e^{24},$ $\frac{21}{1697}\sqrt{491}e^{17} + \frac{42}{1697}\sqrt{227}e^{35}$	$(\frac{63}{1697}, \frac{210}{1697}, -\frac{84}{1697}, -\frac{231}{1697}, \frac{420}{1697}, -\frac{525}{1697}, \frac{273}{1697}, -\frac{21}{1697}, \frac{336}{1697})$ $+ \frac{21}{1697}\sqrt{1493}e^5 \otimes e_8 + \frac{21}{1697}\sqrt{341}e^2 \otimes e_4 + \frac{63}{1697}\sqrt{145}e^3 \otimes e_6$	{1468, 2389}
931:24	$0, 0, 0, 0, 0, 0, \frac{5}{88}\sqrt{5}e^{12}, \frac{5}{176}\sqrt{130}e^{13} + \frac{5}{88}\sqrt{5}e^{24},$ $\frac{5}{176}\sqrt{235}e^{17} + \frac{5}{176}\sqrt{235}e^{35}$	$(-\frac{35}{352}, \frac{17}{176}, \frac{107}{352}, \frac{19}{176}, -\frac{13}{32}, \frac{107}{176}, -\frac{1}{352}, \frac{9}{44}, -\frac{9}{88})$ $+ \frac{5}{176}\sqrt{690}e^3 \otimes e_5 + \frac{5}{88}\sqrt{215}e^6 \otimes e_9$	{12349, 12589, 23789, 24579}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{1330}e^{12}, \frac{2}{81}\sqrt{595}e^{13} + \frac{7}{81}\sqrt{70}e^{24},$ $\frac{1}{81}\sqrt{1330}e^{17} + \frac{7}{81}\sqrt{70}e^{35}$	$(\frac{5}{27}, -\frac{2}{81}, -\frac{19}{54}, -\frac{23}{162}, \frac{113}{162}, \frac{13}{81}, \frac{13}{81}, -\frac{1}{6}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^5 \otimes e_8$	{135, 1356, 1468, 148, 23689, 2389, 24569, 2459}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{80}\sqrt{87}e^{12}, \frac{1}{32}\sqrt{174}e^{13} + \frac{1}{80}\sqrt{2262}e^{24},$ $\frac{1}{160}\sqrt{6699}e^{17} + \frac{1}{160}\sqrt{6699}e^{35}$	$(\frac{19}{320}, -\frac{29}{160}, \frac{77}{320}, \frac{77}{160}, -\frac{97}{320}, \frac{21}{160}, -\frac{39}{320}, \frac{3}{10}, -\frac{1}{16})$ $+ \frac{1}{160}\sqrt{5394}e^3 \otimes e_5 + \frac{9}{80}\sqrt{58}e^4 \otimes e_9$	{1569, 159, 3679, 379}
931:24	$0, 0, 0, 0, 0, 0, \frac{24}{2305}\sqrt{866}e^{12}, \frac{2}{2305}\sqrt{106951}e^{13} + \frac{8}{2305}\sqrt{12990}e^{24},$ $\frac{2}{2305}\sqrt{320853}e^{17} + \frac{2}{2305}\sqrt{142457}e^{35}$	$(\frac{63}{461}, \frac{99}{461}, \frac{191}{2305}, \frac{1001}{2305}, -\frac{56}{2305}, -\frac{551}{2305}, \frac{36}{461}, \frac{506}{2305}, \frac{27}{461})$ $+ \frac{4}{2305}\sqrt{130766}e^4 \otimes e_9 + \frac{4}{2305}\sqrt{89198}e^1 \otimes e_6$	{12389, 134578, 256789, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{3773}\sqrt{36894}e^{12}, \frac{2}{3773}\sqrt{539435}e^{13} + \frac{4}{3773}\sqrt{160433}e^{24},$ $\frac{4}{3773}\sqrt{101179}e^{17} + \frac{2}{3773}\sqrt{747942}e^{35}$	$(\frac{556}{3773}, -\frac{17}{77}, \frac{8}{3773}, \frac{127}{343}, \frac{271}{3773}, -\frac{11}{49}, -\frac{277}{3773}, \frac{564}{3773}, \frac{279}{3773})$ $+ \frac{4}{3773}\sqrt{171613}e^5 \otimes e_6 + \frac{4}{3773}\sqrt{302419}e^4 \otimes e_9$	{123689, 134578, 25789, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{336}\sqrt{106}e^{12}, \frac{3}{112}\sqrt{530}e^{13} + \frac{1}{168}\sqrt{2703}e^{24},$ $\frac{1}{336}\sqrt{8745}e^{17} + \frac{1}{336}\sqrt{8745}e^{35}$	$(-\frac{23}{224}, \frac{13}{112}, \frac{43}{224}, -\frac{3}{112}, -\frac{9}{32}, \frac{9}{16}, \frac{3}{224}, \frac{5}{56}, -\frac{5}{56})$ $+ \frac{1}{168}\sqrt{13038}e^6 \otimes e_8 + \frac{1}{16}\sqrt{106}e^3 \otimes e_5$	{136, 1458, 3478, 567}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{95}e^{12}, \frac{2}{35}\sqrt{209}e^{13} + \frac{2}{105}\sqrt{1653}e^{24},$ $\frac{4}{105}\sqrt{57}e^{17} + \frac{4}{105}\sqrt{57}e^{35}$	$(\frac{1}{35}, \frac{1}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{1}{5}, 1, \frac{35}{5}, -\frac{3}{35}, \frac{3}{35})$ $+ \frac{4}{105}\sqrt{1254}e^6 \otimes e_8$	{12345679, 12789, 136, 1458, 23589, 2469, 3478, 567}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{841}\sqrt{9805}e^{12}, \frac{2}{841}\sqrt{3145}e^{13} + \frac{2}{841}\sqrt{47545}e^{24},$ $\frac{8}{841}\sqrt{370}e^{17} + \frac{4}{841}\sqrt{7955}e^{35}$	$(\frac{55}{841}, \frac{123}{841}, -\frac{96}{841}, -\frac{164}{841}, \frac{329}{841}, -\frac{247}{841}, \frac{178}{841}, -\frac{41}{841}, \frac{233}{841})$ $+ \frac{20}{841}\sqrt{629}e^2 \otimes e_6 + \frac{4}{841}\sqrt{18870}e^5 \otimes e_8$	{12345, 128, 34689, 569}
931:24	$0, 0, 0, 0, 0, 0, \frac{8}{841}\sqrt{370}e^{12}, \frac{2}{841}\sqrt{3145}e^{13} + \frac{4}{841}\sqrt{7955}e^{24},$ $\frac{2}{841}\sqrt{9805}e^{17} + \frac{2}{841}\sqrt{47545}e^{35}$	$(\frac{55}{841}, -\frac{47}{841}, -\frac{181}{841}, -\frac{79}{841}, \frac{244}{841}, \frac{433}{841}, \frac{8}{841}, -\frac{126}{841}, \frac{63}{841})$ $+ \frac{20}{841}\sqrt{629}e^6 \otimes e_9 + \frac{4}{841}\sqrt{18870}e^5 \otimes e_8$	{1234567, 12678, 34789, 579}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{225}\sqrt{6262}e^{12}, \frac{1}{225}\sqrt{14746}e^{13} + \frac{2}{225}\sqrt{1414}e^{24},$ $\frac{1}{225}\sqrt{6262}e^{17} + \frac{2}{225}\sqrt{1414}e^{35}$	$(\frac{1}{75}, \frac{17}{225}, \frac{62}{225}, \frac{16}{75}, -\frac{13}{75}, -\frac{98}{225}, \frac{4}{45}, \frac{13}{225}, \frac{23}{225})$ $+ \frac{1}{225}\sqrt{17574}e^3 \otimes e_5 + \frac{2}{225}\sqrt{5959}e^1 \otimes e_6$	{1347, 1578, 368, 456}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{323}\sqrt{24766}e^{12}, \frac{2}{323}\sqrt{6699}e^{13} + \frac{2}{323}\sqrt{2030}e^{24},$ $\frac{2}{323}\sqrt{4669}e^{17} + \frac{2}{323}\sqrt{4669}e^{35}$	$(-\frac{53}{323}, \frac{211}{323}, \frac{69}{323}, -\frac{195}{323}, \frac{36}{323}, \frac{59}{323}, \frac{158}{323}, \frac{16}{323}, \frac{105}{323})$ $+ \frac{4}{323}\sqrt{13398}e^2 \otimes e_4$	{12569, 1259, 1467, 147, 23679, 2379, 345, 3456}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{3265}\sqrt{516718}e^{12}, \frac{2}{3265}\sqrt{463749}e^{13} + \frac{2}{3265}\sqrt{196742}e^{24},$ $\frac{2}{3265}\sqrt{232415}e^{17} + \frac{2}{3265}\sqrt{623737}e^{35}$	$(-\frac{331}{3265}, \frac{277}{653}, \frac{939}{3265}, -\frac{777}{3265}, -\frac{216}{3265}, -\frac{1223}{3265}, \frac{1054}{3265}, \frac{608}{3265}, \frac{723}{3265})$ $+ \frac{24}{3265}\sqrt{11891}e^3 \otimes e_6 + \frac{4}{3265}\sqrt{356730}e^2 \otimes e_4$	{1235, 13479, 267, 4569}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{567}\sqrt{23086}e^{12}, \frac{2}{567}\sqrt{5593}e^{13} + \frac{2}{567}\sqrt{7378}e^{24},$ $\frac{2}{567}\sqrt{13447}e^{17} + \frac{2}{81}\sqrt{85}e^{35}$	$(-\frac{1}{189}, \frac{139}{567}, \frac{43}{567}, -\frac{11}{63}, \frac{10}{63}, -\frac{241}{567}, \frac{136}{567}, \frac{40}{567}, \frac{19}{81})$ $+ \frac{4}{189}\sqrt{714}e^2 \otimes e_4 + \frac{4}{567}\sqrt{8806}e^1 \otimes e_6$	{12359, 1347, 2679, 456}
931:24	$0, 0, 0, 0, 0, 0, \frac{42}{2621}\sqrt{542}e^{12}, \frac{42}{2621}\sqrt{329}e^{13} + \frac{84}{2621}\sqrt{2}e^{24},$ $\frac{210}{2621}\sqrt{11}e^{17} + \frac{42}{2621}\sqrt{97}e^{35}$	$(\frac{105}{2621}, \frac{399}{2621}, -\frac{189}{2621}, -\frac{483}{2621}, \frac{798}{2621}, -\frac{777}{2621}, \frac{504}{2621}, -\frac{84}{2621}, \frac{609}{2621})$ $+ \frac{42}{2621}\sqrt{658}e^5 \otimes e_8 + \frac{546}{2621}\sqrt{6}e^1 \otimes e_6 + \frac{84}{2621}\sqrt{178}e^2 \otimes e_4$	{1478, 236789}
931:24	$0, 0, 0, 0, 0, 0, \frac{156}{2077}e^{12}, \frac{26}{2077}\sqrt{103}e^{13} + \frac{26}{2077}\sqrt{654}e^{24},$ $\frac{26}{2077}\sqrt{309}e^{17} + \frac{182}{2077}\sqrt{11}e^{35}$	$(\frac{273}{2077}, -\frac{429}{2077}, -\frac{247}{2077}, \frac{455}{2077}, \frac{364}{2077}, -\frac{65}{2077}, -\frac{156}{2077}, \frac{26}{2077}, \frac{117}{2077})$ $+ \frac{26}{2077}\sqrt{254}e^1 \otimes e_6 + \frac{26}{2077}\sqrt{714}e^5 \otimes e_8 + \frac{52}{2077}\sqrt{230}e^4 \otimes e_9$	{159, 23456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:24	$0, 0, 0, 0, 0, 0, \frac{28}{405}\sqrt{29}e^{12}, \frac{28}{405}\sqrt{2}e^{13} + \frac{14}{405}\sqrt{11}e^{24},$ $\frac{14}{405}\sqrt{93}e^{17} + \frac{14}{405}\sqrt{93}e^{35}$	$(-\frac{7}{45}, \frac{112}{405}, \frac{91}{405}, -\frac{28}{135}, -\frac{7}{27}, \frac{182}{405}, \frac{49}{405}, \frac{28}{405}, -\frac{14}{405})$ $+ \frac{112}{405}\sqrt{3}e^3 \otimes e_5 + \frac{14}{405}\sqrt{254}e^2 \otimes e_4 + \frac{238}{405}e^6 \otimes e_9$	{1259, 2379}
931:24	$0, 0, 0, 0, 0, 0, \frac{5}{176}\sqrt{235}e^{12}, \frac{5}{176}\sqrt{130}e^{13} + \frac{5}{176}\sqrt{235}e^{24},$ $\frac{5}{88}\sqrt{5}e^{17} + \frac{5}{88}\sqrt{5}e^{35}$	$(-\frac{35}{352}, \frac{15}{44}, \frac{75}{176}, -\frac{5}{352}, -\frac{25}{88}, -\frac{65}{176}, \frac{85}{352}, \frac{115}{352}, \frac{25}{176})$ $+ \frac{5}{176}\sqrt{690}e^3 \otimes e_5 + \frac{5}{88}\sqrt{215}e^2 \otimes e_6$	{12349, 12589, 23789, 24579}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{83}\sqrt{86}e^{12}, \frac{2}{83}\sqrt{731}e^{13} + \frac{4}{83}\sqrt{86}e^{24},$ $\frac{10}{83}\sqrt{43}e^{17} + \frac{10}{83}\sqrt{43}e^{35}$	$(-\frac{1}{83}, -\frac{1}{83}, \frac{7}{83}, \frac{7}{83}, -\frac{10}{83}, 1, -\frac{2}{83}, \frac{6}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731}e^6 \otimes e_9$	{12389, 12459, 1345678, 167, 23479, 25789, 356, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{323}\sqrt{2030}e^{12}, \frac{2}{323}\sqrt{6699}e^{13} + \frac{2}{323}\sqrt{24766}e^{24},$ $\frac{2}{323}\sqrt{4669}e^{17} + \frac{2}{323}\sqrt{4669}e^{35}$	$(\frac{79}{323}, -\frac{53}{323}, \frac{69}{323}, \frac{201}{323}, \frac{36}{323}, -\frac{205}{323}, \frac{26}{323}, \frac{148}{323}, \frac{105}{323})$ $+ \frac{4}{323}\sqrt{13398}e^4 \otimes e_6$	{1235678, 1247, 13489, 1569, 2345, 268, 3679, 45789}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{117}\sqrt{221}e^{12}, \frac{4}{117}\sqrt{170}e^{13} + \frac{2}{117}\sqrt{85}e^{24},$ $\frac{2}{39}\sqrt{85}e^{17} + \frac{2}{39}\sqrt{85}e^{35}$	$(-\frac{5}{39}, \frac{32}{117}, \frac{11}{117}, -\frac{4}{13}, -\frac{1}{13}, \frac{70}{117}, \frac{17}{117}, -\frac{4}{117}, \frac{2}{117})$ $+ \frac{2}{117}\sqrt{1598}e^2 \otimes e_4 + \frac{2}{117}\sqrt{1921}e^6 \otimes e_9$	{12389, 1345678, 25789, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{1}{83}\sqrt{826}e^{12}, \frac{1}{83}\sqrt{1298}e^{13} + \frac{8}{249}\sqrt{177}e^{24},$ $\frac{1}{249}\sqrt{354}e^{17} + \frac{1}{249}\sqrt{354}e^{35}$	$(-\frac{8}{83}, \frac{25}{83}, -\frac{1}{83}, -\frac{34}{83}, \frac{10}{83}, \frac{50}{83}, \frac{17}{83}, -\frac{9}{83}, \frac{9}{83})$ $+ \frac{11}{249}\sqrt{354}e^6 \otimes e_8 + \frac{1}{83}\sqrt{3894}e^2 \otimes e_4$	{1258, 14789, 2378, 34589}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{4177}\sqrt{68086}e^{12}, \frac{2}{4177}\sqrt{683745}e^{13} + \frac{8}{4177}\sqrt{20195}e^{24},$ $\frac{2}{4177}\sqrt{401015}e^{17} + \frac{2}{4177}\sqrt{709133}e^{35}$	$(\frac{311}{4177}, \frac{241}{4177}, -\frac{301}{4177}, -\frac{231}{4177}, \frac{1164}{4177}, -\frac{1455}{4177}, \frac{552}{4177}, \frac{10}{4177}, \frac{863}{4177})$ $+ \frac{4}{4177}\sqrt{257342}e^3 \otimes e_6 + \frac{8}{4177}\sqrt{74433}e^5 \otimes e_8$	{135, 1468, 2389, 24569}
931:24	$0, 0, 0, 0, 0, 0, \frac{11}{1865}\sqrt{101}e^{12}, \frac{22}{1865}\sqrt{133}e^{13} + \frac{11}{1865}\sqrt{1387}e^{24},$ $\frac{22}{1865}\sqrt{115}e^{17} + \frac{11}{1865}\sqrt{979}e^{35}$	$(\frac{132}{1865}, -\frac{33}{373}, -\frac{77}{1865}, \frac{44}{373}, \frac{176}{1865}, -\frac{286}{1865}, -\frac{33}{1865}, \frac{11}{373}, \frac{99}{1865})$ $+ \frac{11}{1865}\sqrt{1038}e^5 \otimes e_8 + \frac{11}{1865}\sqrt{1534}e^4 \otimes e_9 + \frac{11}{1865}\sqrt{865}e^2 \otimes e_6$	{12389, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{949}\sqrt{2987}e^{12}, \frac{2}{949}\sqrt{28531}e^{13} + \frac{2}{949}\sqrt{38110}e^{24},$ $\frac{4}{949}\sqrt{5665}e^{17} + \frac{4}{949}\sqrt{5665}e^{35}$	$(\frac{36}{949}, -\frac{45}{949}, \frac{152}{949}, \frac{233}{949}, -\frac{125}{949}, \frac{251}{949}, -\frac{9}{949}, \frac{188}{949}, \frac{27}{949})$ $+ \frac{2}{949}\sqrt{35638}e^2 \otimes e_6 + \frac{4}{949}\sqrt{13081}e^4 \otimes e_9$	{12389, 1345678, 25789, 468}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{323}\sqrt{4669}e^{12}, \frac{2}{323}\sqrt{6699}e^{13} + \frac{2}{323}\sqrt{4669}e^{24},$ $\frac{2}{323}\sqrt{2030}e^{17} + \frac{2}{323}\sqrt{24766}e^{35}$	$(\frac{79}{323}, \frac{13}{323}, -\frac{30}{323}, \frac{36}{323}, \frac{201}{323}, -\frac{205}{323}, \frac{92}{323}, \frac{49}{323}, \frac{9}{17})$ $+ \frac{4}{323}\sqrt{13398}e^5 \otimes e_6$	{12358, 1246, 1346789, 1579, 23457, 2678, 369, 4589}
931:24	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{8}{19}\sqrt{6}e^{13} + \frac{2}{19}\sqrt{15}e^{24},$ $\frac{2}{19}\sqrt{15}e^{17} + \frac{2}{19}\sqrt{15}e^{35}$	$(-\frac{5}{38}, \frac{11}{38}, \frac{49}{76}, \frac{17}{76}, -\frac{47}{76}, \frac{3}{19}, \frac{3}{19}, \frac{39}{76}, \frac{1}{38})$ $+ \frac{16}{19}\sqrt{3}e^3 \otimes e_5$	{134, 1346, 1568, 158, 3678, 378, 4567, 457}
931:24	$0, 0, 0, 0, 0, 0, \frac{4}{3465}\sqrt{18154}e^{12}, \frac{2}{3465}\sqrt{97343}e^{13} + \frac{4}{3465}\sqrt{104542}e^{24},$ $\frac{2}{693}\sqrt{5321}e^{17} + \frac{2}{3465}\sqrt{349621}e^{35}$	$(\frac{149}{1155}, -\frac{155}{693}, -\frac{53}{385}, \frac{149}{693}, \frac{596}{3465}, \frac{47}{495}, -\frac{328}{3465}, -\frac{2}{231}, \frac{17}{495})$ $+ \frac{4}{3465}\sqrt{108298}e^5 \otimes e_8 + \frac{4}{3465}\sqrt{137094}e^4 \otimes e_9$	{1569, 159, 2345, 23456}
931:24	$0, 0, 0, 0, 0, 0, \frac{11}{824}\sqrt{1230}e^{12}, \frac{11}{824}\sqrt{1410}e^{13} + \frac{11}{824}\sqrt{590}e^{24},$ $\frac{33}{824}\sqrt{15}e^{17} + \frac{33}{824}\sqrt{15}e^{35}$	$(-\frac{327}{1648}, \frac{387}{824}, \frac{665}{1648}, -\frac{109}{412}, -\frac{545}{1648}, \frac{87}{824}, \frac{447}{1648}, \frac{169}{824}, \frac{15}{206})$ $+ \frac{11}{412}\sqrt{910}e^2 \otimes e_4 + \frac{11}{824}\sqrt{3730}e^3 \otimes e_5$	{123, 1236, 2567, 257}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{3321}\sqrt{541726}e^{12}, \frac{2}{3321}\sqrt{367115}e^{14} + \frac{2}{3321}\sqrt{20361}e^{23},$ $\frac{4}{1107}\sqrt{21595}e^{17} + \frac{4}{3321}\sqrt{20978}e^{35}$	$(\frac{463}{3321}, -\frac{175}{1107}, \frac{217}{3321}, -\frac{257}{1107}, \frac{184}{3321}, \frac{545}{1107}, -\frac{62}{3321}, -\frac{308}{3321}, \frac{401}{3321})$ $+ \frac{2}{3321}\sqrt{1040262}e^1 \otimes e_4 + \frac{2}{3321}\sqrt{811355}e^6 \otimes e_9$	{1259, 13567, 24579, 3456}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{390}e^{12}, \frac{4}{141}\sqrt{195}e^{14} + \frac{4}{47}\sqrt{13}e^{23},$ $\frac{5}{141}\sqrt{78}e^{17} + \frac{26}{141}\sqrt{3}e^{35}$	$(-\frac{3}{47}, \frac{6}{47}, \frac{4}{47}, \frac{13}{47}, -\frac{4}{47}, -\frac{16}{47}, \frac{3}{47}, \frac{10}{47}, 0)$ $+ \frac{13}{141}\sqrt{30}e^4 \otimes e_9 + \frac{1}{141}\sqrt{1209}e^1 \otimes e_6$	{12389, 13457, 25679, 468}
931:25	$0, 0, 0, 0, 0, 0, \frac{252}{1343}\sqrt{5}e^{12}, \frac{140}{1343}\sqrt{10}e^{14} + \frac{252}{1343}\sqrt{3}e^{23},$ $\frac{84}{1343}\sqrt{39}e^{17} + \frac{28}{1343}\sqrt{115}e^{35}$	$(\frac{182}{1343}, -\frac{14}{1343}, \frac{14}{1343}, -\frac{210}{1343}, \frac{364}{1343}, -\frac{406}{1343}, \frac{168}{1343}, -\frac{28}{1343}, \frac{350}{1343})$ $+ \frac{28}{1343}\sqrt{574}e^1 \otimes e_4 + \frac{56}{1343}\sqrt{130}e^2 \otimes e_6 - \frac{84}{1343}\sqrt{15}e^5 \otimes e_8$	{12359, 1567, 234579, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{252}{1343}\sqrt{5}e^{12}, \frac{140}{1343}\sqrt{10}e^{14} + \frac{252}{1343}\sqrt{3}e^{23},$ $\frac{84}{1343}\sqrt{39}e^{17} + \frac{28}{1343}\sqrt{115}e^{35}$	$(\frac{182}{1343}, -\frac{14}{1343}, -\frac{14}{1343}, -\frac{210}{1343}, \frac{364}{1343}, -\frac{406}{1343}, \frac{168}{1343}, -\frac{28}{1343}, \frac{350}{1343})$ $+ \frac{28}{1343}\sqrt{574}e^1 \otimes e_4 + \frac{56}{1343}\sqrt{130}e^2 \otimes e_6 + \frac{84}{1343}\sqrt{15}e^5 \otimes e_8$	{12359, 1567, 234579, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:25	$0, 0, 0, 0, 0, 0, \frac{3}{1133}\sqrt{7698}e^{12}, \frac{1}{1133}\sqrt{38490}e^{14} + \frac{4}{1133}\sqrt{47471}e^{23},$ $\frac{4}{1133}\sqrt{3849}e^{17} + \frac{1}{1133}\sqrt{736442}e^{35}$	$(\frac{266}{1133}, -\frac{69}{1133}, \frac{50}{103}, \frac{215}{1133}, -\frac{87}{1133}, -\frac{733}{1133}, \frac{197}{1133}, \frac{481}{1133}, \frac{463}{1133})$ $+ \frac{1}{1133}\sqrt{2394078}e^3 \otimes e_6$	{12379, 12456789, 13458, 16, 2349, 25689, 3578, 467}
931:25	$0, 0, 0, 0, 0, 0, \frac{18}{2245}\sqrt{703}e^{12}, \frac{4}{2245}\sqrt{72409}e^{14} + \frac{4}{2245}\sqrt{18278}e^{23},$ $\frac{2}{2245}\sqrt{162393}e^{17} + \frac{2}{2245}\sqrt{270655}e^{35}$	$(-\frac{289}{2245}, \frac{50}{449}, \frac{539}{2245}, \frac{1078}{2245}, -\frac{867}{2245}, \frac{273}{2245}, -\frac{39}{2245}, \frac{789}{2245}, -\frac{328}{2245})$ $+ \frac{2}{2245}\sqrt{530765}e^3 \otimes e_5 + \frac{2}{2245}\sqrt{855551}e^4 \otimes e_9$	{13689, 1389, 5679, 579}
931:25	$0, 0, 0, 0, 0, 0, \frac{38}{3561}\sqrt{35}e^{12}, \frac{2}{3561}\sqrt{653030}e^{14} + \frac{14}{3561}\sqrt{9595}e^{23},$ $\frac{4}{3561}\sqrt{14630}e^{17} + \frac{44}{3561}\sqrt{1995}e^{35}$	$(-\frac{581}{3561}, \frac{340}{1187}, -\frac{413}{3561}, \frac{396}{1187}, \frac{271}{3561}, -\frac{353}{1187}, \frac{439}{3561}, \frac{607}{3561}, -\frac{142}{3561})$ $+ \frac{2}{3561}\sqrt{1222270}e^4 \otimes e_9 + \frac{2}{3561}\sqrt{925015}e^5 \otimes e_6$	{1246, 15789, 234578, 369}
931:25	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{39}e^{12}, \frac{1}{22}\sqrt{65}e^{14} + \frac{1}{22}\sqrt{26}e^{23},$ $\frac{1}{22}\sqrt{130}e^{17} + \frac{1}{11}\sqrt{13}e^{35}$	$(\frac{3}{11}, -\frac{5}{44}, \frac{3}{44}, -\frac{7}{22}, \frac{4}{11}, -\frac{5}{22}, \frac{7}{44}, -\frac{1}{22}, \frac{19}{44})$ $+ \frac{1}{11}\sqrt{78}e^1 \otimes e_4 + \frac{1}{22}\sqrt{195}e^5 \otimes e_6$	{1259, 1357, 24579, 345}
931:25	$0, 0, 0, 0, 0, 0, \frac{84}{3035}\sqrt{38}e^{12}, \frac{12}{3035}\sqrt{11894}e^{14} + \frac{12}{3035}\sqrt{57}e^{23},$ $\frac{12}{3035}\sqrt{1577}e^{17} + \frac{12}{3035}\sqrt{18715}e^{35}$	$(-\frac{282}{3035}, \frac{86}{607}, \frac{522}{3035}, \frac{1234}{3035}, -\frac{656}{3035}, -\frac{846}{3035}, \frac{148}{3035}, \frac{952}{3035}, -\frac{134}{3035})$ $+ \frac{12}{3035}\sqrt{29089}e^4 \otimes e_9 + \frac{12}{607}\sqrt{893}e^3 \otimes e_6$	{12467, 15689, 23458, 379}
931:25	$0, 0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{24}{289}\sqrt{21}e^{14} + \frac{28}{289}e^{23},$ $\frac{28}{289}\sqrt{3}e^{17} + \frac{4}{289}\sqrt{707}e^{35}$	$(-\frac{42}{289}, \frac{66}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{52}{289}, \frac{10}{289}, \frac{24}{289}, -\frac{4}{289}, -\frac{18}{289})$ $+ \frac{28}{289}\sqrt{2}e^2 \otimes e_6 + \frac{4}{289}\sqrt{854}e^4 \otimes e_9 - \frac{4}{289}\sqrt{903}e^5 \otimes e_8$	{123789, 13456, 259, 4678}
931:25	$0, 0, 0, 0, 0, 0, \frac{28}{289}\sqrt{3}e^{12}, \frac{24}{289}\sqrt{21}e^{14} + \frac{28}{289}e^{23},$ $\frac{28}{289}\sqrt{3}e^{17} + \frac{4}{289}\sqrt{707}e^{35}$	$(-\frac{42}{289}, \frac{66}{289}, -\frac{70}{289}, \frac{38}{289}, \frac{52}{289}, \frac{10}{289}, \frac{24}{289}, -\frac{4}{289}, -\frac{18}{289})$ $+ \frac{28}{289}\sqrt{2}e^2 \otimes e_6 + \frac{4}{289}\sqrt{854}e^4 \otimes e_9 + \frac{4}{289}\sqrt{903}e^5 \otimes e_8$	{123789, 13456, 259, 4678}
931:25	$0, 0, 0, 0, 0, 0, \frac{615}{4549}\sqrt{2}e^{12}, \frac{82}{4549}\sqrt{95}e^{14} + \frac{41}{4549}\sqrt{2478}e^{23},$ $\frac{246}{4549}\sqrt{46}e^{17} + \frac{82}{4549}\sqrt{285}e^{35}$	$(\frac{861}{4549}, -\frac{1107}{4549}, \frac{1148}{4549}, -\frac{820}{4549}, -\frac{533}{4549}, \frac{1722}{4549}, -\frac{246}{4549}, \frac{41}{4549}, \frac{615}{4549})$ $+ \frac{41}{4549}\sqrt{2730}e^6 \otimes e_8 + \frac{41}{4549}\sqrt{2734}e^1 \otimes e_4 + \frac{41}{4549}\sqrt{730}e^3 \otimes e_5$	{1567, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{237}e^{14} + \frac{14}{587}\sqrt{393}e^{23},$ $\frac{14}{587}\sqrt{102}e^{17} + \frac{28}{587}\sqrt{66}e^{35}$	$(-\frac{7}{587}, \frac{133}{587}, -\frac{154}{587}, \frac{14}{587}, \frac{273}{587}, -\frac{161}{587}, \frac{126}{587}, -\frac{21}{587}, \frac{119}{587})$ $+ \frac{14}{587}\sqrt{678}e^2 \otimes e_6 - \frac{28}{587}\sqrt{222}e^5 \otimes e_8$	{12345, 128, 136789, 145679, 2357, 2478, 34689, 569}
931:25	$0, 0, 0, 0, 0, 0, \frac{126}{587}e^{12}, \frac{14}{587}\sqrt{237}e^{14} + \frac{14}{587}\sqrt{393}e^{23},$ $\frac{14}{587}\sqrt{102}e^{17} + \frac{28}{587}\sqrt{66}e^{35}$	$(-\frac{7}{587}, \frac{133}{587}, -\frac{154}{587}, \frac{14}{587}, \frac{273}{587}, -\frac{161}{587}, \frac{126}{587}, -\frac{21}{587}, \frac{119}{587})$ $+ \frac{14}{587}\sqrt{678}e^2 \otimes e_6 + \frac{28}{587}\sqrt{222}e^5 \otimes e_8$	{12345, 128, 136789, 145679, 2357, 2478, 34689, 569}
931:25	$0, 0, 0, 0, 0, 0, \frac{8}{255}\sqrt{3}e^{12}, \frac{4}{255}\sqrt{267}e^{14} + \frac{4}{85}\sqrt{7}e^{23},$ $\frac{4}{255}\sqrt{15}e^{17} + \frac{4}{255}\sqrt{210}e^{35}$	$(-\frac{6}{85}, \frac{12}{85}, -\frac{2}{17}, \frac{8}{85}, \frac{2}{17}, -\frac{14}{85}, \frac{6}{85}, \frac{2}{85}, 0)$ $+ \frac{12}{85}\sqrt{3}e^5 \otimes e_8 + \frac{4}{255}\sqrt{183}e^1 \otimes e_6 + \frac{4}{255}\sqrt{282}e^4 \otimes e_9$	{12389, 13457, 25679, 468}
931:25	$0, 0, 0, 0, 0, 0, \frac{8}{255}\sqrt{3}e^{12}, \frac{4}{255}\sqrt{267}e^{14} + \frac{4}{85}\sqrt{7}e^{23},$ $\frac{4}{255}\sqrt{15}e^{17} + \frac{4}{255}\sqrt{210}e^{35}$	$(-\frac{6}{85}, \frac{12}{85}, -\frac{2}{17}, \frac{8}{85}, \frac{2}{17}, -\frac{14}{85}, \frac{6}{85}, \frac{2}{85}, 0)$ $- \frac{12}{85}\sqrt{3}e^5 \otimes e_8 + \frac{4}{255}\sqrt{183}e^1 \otimes e_6 + \frac{4}{255}\sqrt{282}e^4 \otimes e_9$	{12389, 13457, 25679, 468}
931:25	$0, 0, 0, 0, 0, 0, \frac{18}{281}\sqrt{145}e^{12}, \frac{2}{281}\sqrt{8555}e^{14} + \frac{2}{281}\sqrt{14065}e^{23},$ $\frac{2}{281}\sqrt{6670}e^{17} + \frac{8}{281}\sqrt{290}e^{35}$	$(-\frac{21}{281}, \frac{103}{281}, -\frac{18}{281}, \frac{106}{281}, \frac{79}{281}, -\frac{187}{281}, \frac{82}{281}, \frac{85}{281}, \frac{61}{281})$ $+ \frac{6}{281}\sqrt{3770}e^2 \otimes e_6$	{12359, 12489, 134678, 1567, 234579, 2789, 368, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{3145}e^{12}, \frac{1}{121}\sqrt{555}e^{14} + \frac{1}{121}\sqrt{2553}e^{23},$ $\frac{1}{121}\sqrt{4551}e^{17} + \frac{3}{121}\sqrt{185}e^{35}$	$(\frac{29}{121}, -\frac{97}{484}, \frac{3}{44}, -\frac{45}{121}, \frac{51}{242}, \frac{58}{121}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{5}{121}\sqrt{259}e^6 \otimes e_8 + \frac{6}{121}\sqrt{259}e^1 \otimes e_4$	{123569, 1567, 2345679, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{105}{1361}\sqrt{11}e^{12}, \frac{84}{1361}\sqrt{37}e^{14} + \frac{168}{1361}\sqrt{7}e^{23},$ $\frac{126}{1361}\sqrt{3}e^{17} + \frac{126}{1361}\sqrt{5}e^{35}$	$(-\frac{105}{1361}, \frac{21}{1361}, \frac{126}{1361}, \frac{252}{1361}, -\frac{315}{1361}, \frac{588}{1361}, -\frac{84}{1361}, \frac{147}{1361}, -\frac{189}{1361})$ $+ \frac{21}{1361}\sqrt{665}e^3 \otimes e_5 + \frac{21}{1361}\sqrt{881}e^4 \otimes e_9 + \frac{651}{1361}e^6 \otimes e_8$	{1389, 5679}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{2913}e^{12}, \frac{2}{1145}\sqrt{204881}e^{14} + \frac{12}{1145}\sqrt{2913}e^{23},$ $\frac{1}{1145}\sqrt{196142}e^{17} + \frac{2}{1145}\sqrt{203910}e^{35}$	$(-\frac{329}{1145}, \frac{82}{229}, -\frac{16}{1145}, \frac{723}{1145}, -\frac{232}{1145}, \frac{188}{1145}, \frac{81}{1145}, \frac{394}{1145}, -\frac{248}{1145})$ $+ \frac{1}{1145}\sqrt{1858494}e^4 \otimes e_9$	{12467, 1247, 15689, 1589, 234568, 23458, 3679, 379}
931:25	$0, 0, 0, 0, 0, 0, \frac{1}{96}\sqrt{1819}e^{12}, \frac{1}{48}\sqrt{214}e^{14} + \frac{1}{48}\sqrt{214}e^{23},$ $\frac{5}{96}\sqrt{214}e^{17} + \frac{5}{96}\sqrt{214}e^{35}$	$(-\frac{1}{8}, \frac{13}{96}, -\frac{7}{192}, \frac{43}{192}, -\frac{5}{64}, 1, \frac{1}{96}, \frac{19}{192}, -\frac{11}{96})$ $+ \frac{1}{96}\sqrt{16799}e^6 \otimes e_9$	{123489, 1259, 13567, 14678, 23789, 24579, 3456, 68}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:25	$0, 0, 0, 0, 0, 0, \frac{4}{113}\sqrt{83}e^{12}, \frac{6}{113}\sqrt{83}e^{14} + \frac{6}{113}\sqrt{83}e^{23},$ $\frac{1}{113}\sqrt{249}e^{17} + \frac{1}{113}\sqrt{249}e^{35}$	$(\frac{7}{226}, \frac{2}{113}, \frac{46}{113}, \frac{89}{226}, -\frac{37}{113}, -\frac{77}{226}, \frac{11}{226}, \frac{48}{113}, \frac{9}{113})$ $+ \frac{1}{113}\sqrt{8383}e^3 \otimes e_5 + \frac{1}{113}\sqrt{8383}e^4 \otimes e_6$	{1368, 145, 3478, 567}
931:25	$0, 0, 0, 0, 0, 0, \frac{364}{2929}\sqrt{5}e^{12}, \frac{448}{2929}\sqrt{13}e^{14} + \frac{28}{2929}\sqrt{182}e^{23},$ $\frac{14}{2929}\sqrt{793}e^{17} + \frac{14}{2929}\sqrt{7085}e^{35}$	$(-\frac{525}{2929}, \frac{504}{2929}, -\frac{301}{2929}, \frac{728}{2929}, -\frac{245}{2929}, \frac{1477}{2929}, -\frac{21}{2929}, \frac{7}{101}, -\frac{546}{2929})$ $+ \frac{14}{2929}\sqrt{15301}e^6 \otimes e_8 + \frac{308}{2929}\sqrt{39}e^4 \otimes e_9$	{1234567, 1389, 248, 5679}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}, \frac{2}{23}\sqrt{30}e^{14} + \frac{4}{23}\sqrt{7}e^{23},$ $\frac{2}{23}\sqrt{46}e^{17} + \frac{4}{23}\sqrt{5}e^{35}$	$(\frac{7}{23}, -\frac{22}{69}, \frac{28}{69}, -\frac{5}{23}, -\frac{8}{69}, \frac{7}{69}, -\frac{1}{69}, \frac{2}{23}, \frac{20}{69})$ $+ \frac{10}{23}\sqrt{2}e^3 \otimes e_5 + \frac{2}{23}\sqrt{74}e^1 \otimes e_4$	{1567, 157, 45, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{1}{729}\sqrt{4810}e^{12}, \frac{1}{729}\sqrt{66378}e^{14} + \frac{1}{729}\sqrt{131794}e^{23},$ $\frac{74}{729}\sqrt{26}e^{17} + \frac{1}{243}\sqrt{4810}e^{35}$	$(-\frac{1}{729}, -\frac{59}{729}, \frac{70}{243}, \frac{152}{729}, -\frac{271}{729}, \frac{140}{243}, -\frac{20}{243}, \frac{151}{729}, -\frac{61}{729})$ $+ \frac{1}{729}\sqrt{297258}e^3 \otimes e_5 + \frac{2}{729}\sqrt{324194}e^6 \otimes e_9$	{1239, 124589, 23479, 25789}
931:25	$0, 0, 0, 0, 0, 0, \frac{10}{317}\sqrt{193}e^{12}, \frac{1}{317}\sqrt{5790}e^{14} + \frac{1}{317}\sqrt{14282}e^{23},$ $\frac{1}{317}\sqrt{6755}e^{17} + \frac{1}{317}\sqrt{8878}e^{35}$	$(\frac{67}{317}, -\frac{49}{317}, \frac{139}{317}, \frac{23}{317}, -\frac{54}{317}, -\frac{126}{317}, \frac{18}{317}, \frac{90}{317}, \frac{85}{317})$ $+ \frac{1}{317}\sqrt{44390}e^3 \otimes e_5 + \frac{2}{317}\sqrt{15826}e^1 \otimes e_6$	{1378, 1457, 3468, 56}
931:25	$0, 0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{5}{1091}\sqrt{51034}e^{14} + \frac{1}{1091}\sqrt{351866}e^{23},$ $\frac{1}{1091}\sqrt{400214}e^{17} + \frac{2}{1091}\sqrt{103411}e^{35}$	$(-\frac{90}{1091}, \frac{367}{1091}, \frac{159}{1091}, \frac{616}{1091}, \frac{28}{1091}, \frac{727}{1091}, \frac{277}{1091}, \frac{526}{1091}, \frac{187}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_6$	{1236789, 124579, 1345, 168, 23489, 2569, 3567, 478}
931:25	$0, 0, 0, 0, 0, 0, \frac{6}{905}\sqrt{2406}e^{12}, \frac{1}{905}\sqrt{143558}e^{14} + \frac{1}{905}\sqrt{299146}e^{23},$ $\frac{1}{905}\sqrt{106666}e^{17} + \frac{1}{905}\sqrt{114686}e^{35}$	$(\frac{3}{181}, \frac{37}{905}, \frac{234}{905}, \frac{256}{905}, -\frac{167}{905}, -\frac{364}{905}, \frac{52}{905}, \frac{271}{905}, \frac{67}{905})$ $+ \frac{21}{905}\sqrt{802}e^2 \otimes e_6 + \frac{3}{905}\sqrt{34486}e^3 \otimes e_5$	{134678, 1567, 368, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{234}{1127}\sqrt{5}e^{12}, \frac{26}{1127}\sqrt{295}e^{14} + \frac{78}{1127}\sqrt{23}e^{23},$ $\frac{78}{1127}\sqrt{41}e^{17} + \frac{104}{1127}\sqrt{10}e^{35}$	$(\frac{173}{1127}, -\frac{41}{1127}, \frac{1}{23}, -\frac{165}{1127}, \frac{256}{1127}, -\frac{379}{1127}, \frac{132}{1127}, \frac{8}{1127}, \frac{305}{1127})$ $+ \frac{130}{1127}\sqrt{19}e^2 \otimes e_6 + \frac{52}{1127}\sqrt{139}e^1 \otimes e_4$	{12359, 1567, 234579, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{2}{283}\sqrt{2805}e^{14} + \frac{2}{283}\sqrt{935}e^{23},$ $\frac{2}{283}\sqrt{2805}e^{17} + \frac{4}{283}\sqrt{935}e^{35}$	$(-\frac{63}{283}, \frac{99}{283}, -\frac{19}{283}, \frac{143}{283}, -\frac{8}{283}, -\frac{71}{283}, \frac{36}{283}, \frac{80}{283}, -\frac{27}{283})$ $+ \frac{20}{283}\sqrt{119}e^4 \otimes e_9 + \frac{2}{283}\sqrt{9095}e^2 \otimes e_6$	{12589, 1467, 2379, 34568}
931:25	$0, 0, 0, 0, 0, 0, \frac{1}{1177}\sqrt{351390}e^{12}, \frac{39}{1177}\sqrt{170}e^{14} + \frac{4}{1177}\sqrt{12597}e^{23},$ $\frac{4}{1177}\sqrt{25194}e^{17} + \frac{1}{1177}\sqrt{46410}e^{35}$	$(\frac{378}{1177}, -\frac{281}{1177}, \frac{34}{107}, -\frac{285}{1177}, \frac{101}{1177}, -\frac{289}{1177}, \frac{97}{1177}, \frac{93}{1177}, \frac{475}{1177})$ $+ \frac{4}{1177}\sqrt{51051}e^1 \otimes e_4 + \frac{85}{1177}\sqrt{78}e^3 \otimes e_6$	{1239, 167, 23479, 46}
931:25	$0, 0, 0, 0, 0, 0, \frac{6}{223}\sqrt{935}e^{12}, \frac{11}{223}\sqrt{170}e^{14} + \frac{4}{223}\sqrt{187}e^{23},$ $\frac{1}{223}\sqrt{37774}e^{17} + \frac{5}{223}\sqrt{374}e^{35}$	$(\frac{87}{223}, -\frac{64}{223}, \frac{51}{223}, -\frac{100}{223}, \frac{59}{223}, \frac{34}{223}, \frac{23}{223}, -\frac{13}{223}, \frac{110}{223})$ $+ \frac{3}{223}\sqrt{7854}e^1 \otimes e_4$	{123569, 12359, 1567, 157, 2345679, 234579, 45, 456}
931:25	$0, 0, 0, 0, 0, 0, \frac{168}{3419}\sqrt{15}e^{12}, \frac{8}{3419}\sqrt{29274}e^{14} + \frac{56}{3419}\sqrt{69}e^{23},$ $\frac{56}{3419}\sqrt{123}e^{17} + \frac{8}{3419}\sqrt{27069}e^{35}$	$(-\frac{504}{3419}, \frac{764}{3419}, -\frac{840}{3419}, \frac{428}{3419}, \frac{596}{3419}, \frac{288}{3419}, \frac{20}{263}, -\frac{76}{3419}, -\frac{244}{3419})$ $+ \frac{8}{3419}\sqrt{32214}e^4 \otimes e_9 - \frac{8}{3419}\sqrt{33537}e^5 \otimes e_8$	{1236789, 123789, 1345, 13456, 2569, 259, 4678, 478}
931:25	$0, 0, 0, 0, 0, 0, \frac{168}{3419}\sqrt{15}e^{12}, \frac{8}{3419}\sqrt{29274}e^{14} + \frac{56}{3419}\sqrt{69}e^{23},$ $\frac{56}{3419}\sqrt{123}e^{17} + \frac{8}{3419}\sqrt{27069}e^{35}$	$(-\frac{504}{3419}, \frac{764}{3419}, -\frac{840}{3419}, \frac{428}{3419}, \frac{596}{3419}, \frac{288}{3419}, \frac{20}{263}, -\frac{76}{3419}, -\frac{244}{3419})$ $+ \frac{8}{3419}\sqrt{32214}e^4 \otimes e_9 + \frac{8}{3419}\sqrt{33537}e^5 \otimes e_8$	{1236789, 123789, 1345, 13456, 2569, 259, 4678, 478}
931:25	$0, 0, 0, 0, 0, 0, \frac{3}{139}\sqrt{341}e^{12}, \frac{1}{278}\sqrt{24211}e^{14} + \frac{1}{278}\sqrt{27962}e^{23},$ $\frac{1}{278}\sqrt{23870}e^{17} + \frac{1}{139}\sqrt{20119}e^{35}$	$(\frac{15}{139}, \frac{143}{556}, -\frac{57}{556}, \frac{13}{278}, \frac{80}{139}, -\frac{181}{278}, \frac{203}{556}, \frac{43}{278}, \frac{263}{556})$ $+ \frac{3}{278}\sqrt{17391}e^5 \otimes e_6$	{12358, 1246, 134679, 15789, 234578, 267, 369, 4589}
931:25	$0, 0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{1}{1091}\sqrt{351866}e^{14} + \frac{5}{1091}\sqrt{51034}e^{23},$ $\frac{2}{1091}\sqrt{103411}e^{17} + \frac{1}{1091}\sqrt{400214}e^{35}$	$(\frac{213}{1091}, -\frac{239}{1091}, \frac{765}{1091}, \frac{313}{1091}, -\frac{578}{1091}, \frac{182}{1091}, -\frac{26}{1091}, \frac{526}{1091}, \frac{187}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^3 \otimes e_5$	{12367, 1237, 1245678, 124578, 234, 2346, 2568, 258}
931:25	$0, 0, 0, 0, 0, 0, \frac{5}{46}\sqrt{26}e^{12}, \frac{15}{46}\sqrt{6}e^{14} + \frac{15}{46}\sqrt{6}e^{23},$ $\frac{5}{46}\sqrt{6}e^{17} + \frac{5}{46}\sqrt{6}e^{35}$	$(\frac{1}{23}, \frac{1}{92}, -\frac{9}{92}, -\frac{3}{23}, \frac{9}{46}, 1, \frac{5}{92}, -\frac{2}{23}, \frac{9}{92})$ $+ \frac{5}{46}\sqrt{154}e^6 \otimes e_8$	{12345679, 12789, 138, 1456, 23569, 2489, 3478, 567}
931:25	$0, 0, 0, 0, 0, 0, \frac{2}{3505}\sqrt{390674}e^{12}, \frac{2}{3505}\sqrt{278078}e^{14} + \frac{2}{3505}\sqrt{1144726}e^{23},$ $\frac{2}{3505}\sqrt{101507}e^{17} + \frac{2}{3505}\sqrt{331817}e^{35}$	$(\frac{307}{3505}, -\frac{118}{701}, \frac{173}{701}, -\frac{32}{3505}, -\frac{841}{3505}, \frac{1981}{3505}, -\frac{283}{3505}, \frac{55}{701}, \frac{24}{3505})$ $+ \frac{2}{3505}\sqrt{1439011}e^6 \otimes e_8 + \frac{4}{3505}\sqrt{324993}e^3 \otimes e_5$	{123467, 12578, 236, 2458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:25	$0, 0, 0, 0, 0, 0, \frac{43}{6145}\sqrt{2382}e^{12}, \frac{43}{6145}\sqrt{2186}e^{14} + \frac{43}{6145}\sqrt{1106}e^{23},$ $\frac{172}{6145}\sqrt{254}e^{17} + \frac{43}{6145}\sqrt{118}e^{35}$	$(\frac{903}{6145}, -\frac{1247}{6145}, \frac{1204}{6145}, -\frac{946}{6145}, -\frac{129}{1229}, \frac{2408}{6145}, -\frac{344}{6145}, -\frac{43}{6145}, \frac{559}{6145})$ $+ \frac{172}{6145}\sqrt{317}e^1 \otimes e_4 + \frac{301}{6145}\sqrt{78}e^6 \otimes e_9 + \frac{43}{6145}\sqrt{2402}e^3 \otimes e_5$	{1567, 456}
931:26	$0, 0, 0, 0, 0, 0, \frac{10}{1133}\sqrt{770}e^{12}, \frac{20}{1133}\sqrt{595}e^{34},$ $\frac{10}{1133}\sqrt{1603}e^{13} + \frac{20}{1133}\sqrt{7}e^{27} + \frac{30}{1133}\sqrt{266}e^{45}$	$(\frac{20}{103}, -\frac{5}{1133}, -\frac{10}{1133}, -\frac{65}{1133}, \frac{25}{103}, -\frac{415}{1133}, \frac{215}{103}, -\frac{75}{1133}, \frac{210}{1133})$ $+ \frac{20}{1133}\sqrt{903}e^4 \otimes e_6 + \frac{20}{1133}\sqrt{903}e^5 \otimes e_8$	{24789, 25679, 489, 569}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{1241}\sqrt{17626}e^{12}, \frac{2}{1241}\sqrt{76799}e^{34},$ $\frac{4}{1241}\sqrt{46583}e^{13} + \frac{2}{1241}\sqrt{556478}e^{27} + \frac{2}{1241}\sqrt{177519}e^{45}$	$(-\frac{56}{1241}, \frac{19}{1241}, \frac{38}{1241}, \frac{52}{1241}, -\frac{70}{1241}, 1, -\frac{37}{1241}, \frac{90}{1241}, -\frac{18}{1241})$ $+ \frac{7}{1241}\sqrt{52878}e^6 \otimes e_9$	{12345678, 12367, 134568, 136, 23489, 2359, 34789, 3579}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{469}e^{12}, \frac{2}{181}\sqrt{595}e^{34},$ $\frac{2}{181}\sqrt{455}e^{13} + \frac{14}{181}\sqrt{10}e^{27} + \frac{6}{181}\sqrt{7}e^{45}$	$(\frac{16}{181}, -\frac{1}{181}, -\frac{2}{181}, -\frac{13}{181}, \frac{27}{181}, -\frac{27}{181}, \frac{15}{181}, -\frac{15}{181}, \frac{14}{181})$ $+ \frac{2}{181}\sqrt{826}e^2 \otimes e_8 + \frac{6}{181}\sqrt{35}e^4 \otimes e_6$	{123459, 136789, 2347, 3568}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{3277}\sqrt{72335}e^{12}, \frac{2}{3277}\sqrt{228919}e^{34},$ $\frac{46}{3277}\sqrt{185}e^{13} + \frac{4}{3277}\sqrt{62123}e^{27} + \frac{34}{3277}\sqrt{2553}e^{45}$	$(\frac{170}{3277}, -\frac{7}{3277}, -\frac{14}{3277}, -\frac{766}{3277}, \frac{922}{3277}, \frac{1858}{3277}, \frac{163}{3277}, -\frac{780}{3277}, \frac{156}{3277})$ $+ \frac{2}{3277}\sqrt{1207569}e^5 \otimes e_8 + \frac{8}{3277}\sqrt{79143}e^6 \otimes e_9$	{12489, 1259, 14789, 1579}
931:26	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383}e^{12}, \frac{2}{311}\sqrt{23746}e^{34},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{1}{311}\sqrt{30257}e^{27} + \frac{3}{311}\sqrt{1915}e^{45}$	$(\frac{64}{311}, -\frac{14}{311}, -\frac{28}{311}, \frac{419}{622}, -\frac{347}{622}, \frac{115}{311}, \frac{50}{622}, \frac{363}{311}, \frac{36}{311})$ $+ \frac{13}{311}\sqrt{1149}e^4 \otimes e_5$	{23467, 2347, 235678, 23578, 34, 346, 3568, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{14}{209}\sqrt{46}e^{12}, \frac{2}{209}\sqrt{2530}e^{34},$ $\frac{2}{209}\sqrt{1955}e^{13} + \frac{2}{209}\sqrt{2530}e^{27} + \frac{12}{209}\sqrt{23}e^{45}$	$(\frac{14}{209}, \frac{1}{209}, \frac{2}{209}, -\frac{47}{209}, \frac{63}{209}, \frac{27}{209}, \frac{15}{209}, -\frac{45}{209}, \frac{16}{209})$ $+ \frac{2}{209}\sqrt{4186}e^2 \otimes e_8$	{1234569, 123459, 136789, 13789, 23467, 2347, 3568, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577}e^{12}, \frac{2}{157}\sqrt{3901}e^{34},$ $\frac{2}{157}\sqrt{2407}e^{13} + \frac{4}{157}\sqrt{83}e^{27} + \frac{6}{157}\sqrt{415}e^{45}$	$(\frac{38}{157}, \frac{5}{157}, \frac{10}{157}, -\frac{64}{157}, \frac{112}{157}, \frac{28}{157}, \frac{43}{157}, -\frac{54}{157}, \frac{48}{157})$ $+ \frac{2}{157}\sqrt{10707}e^5 \otimes e_8$	{234567, 23457, 23678, 2378, 345, 3456, 368, 38}
931:26	$0, 0, 0, 0, 0, 0, \frac{88}{1083}\sqrt{33}e^{12}, \frac{44}{1083}\sqrt{15}e^{34},$ $\frac{22}{361}\sqrt{34}e^{13} + \frac{22}{1083}\sqrt{87}e^{27} + \frac{361}{1083}\sqrt{183}e^{45}$	$(\frac{352}{1083}, -\frac{77}{1083}, -\frac{154}{1083}, \frac{154}{361}, -\frac{88}{361}, -\frac{374}{1083}, \frac{275}{1083}, \frac{308}{1083}, \frac{66}{361})$ $+ \frac{22}{1083}\sqrt{1506}e^1 \otimes e_6 + \frac{22}{361}\sqrt{151}e^4 \otimes e_5$	{24678, 2567, 468, 56}
931:26	$0, 0, 0, 0, 0, 0, \frac{6}{119}\sqrt{78}e^{12}, \frac{4}{119}\sqrt{195}e^{34},$ $\frac{2}{119}\sqrt{611}e^{13} + \frac{4}{119}\sqrt{195}e^{27} + \frac{6}{119}\sqrt{26}e^{45}$	$(\frac{8}{119}, \frac{1}{119}, \frac{2}{119}, -\frac{27}{119}, \frac{37}{119}, \frac{11}{119}, \frac{9}{119}, -\frac{25}{119}, \frac{10}{119})$ $+ \frac{20}{119}\sqrt{13}e^2 \otimes e_8 + \frac{4}{119}\sqrt{13}e^5 \otimes e_6$	{123459, 136789, 23467, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{983}\sqrt{51645}e^{12}, \frac{2}{983}\sqrt{40377}e^{34},$ $\frac{2}{983}\sqrt{12833}e^{13} + \frac{4}{983}\sqrt{1565}e^{27} + \frac{2}{983}\sqrt{43507}e^{45}$	$(\frac{330}{983}, -\frac{25}{983}, -\frac{50}{983}, -\frac{148}{983}, \frac{428}{983}, -\frac{296}{983}, \frac{305}{983}, -\frac{198}{983}, \frac{280}{983})$ $+ \frac{2}{983}\sqrt{13991}e^5 \otimes e_8 + \frac{8}{983}\sqrt{8138}e^1 \otimes e_6$	{12345, 1238, 13457, 1378}
931:26	$0, 0, 0, 0, 0, 0, \frac{4}{3011}\sqrt{68991}e^{12}, \frac{52}{3011}\sqrt{366}e^{34},$ $\frac{4}{3011}\sqrt{115473}e^{13} + \frac{4}{3011}\sqrt{52338}e^{27} + \frac{12}{3011}\sqrt{2379}e^{45}$	$(\frac{754}{3011}, -\frac{306}{3011}, -\frac{612}{3011}, -\frac{98}{3011}, \frac{240}{3011}, \frac{1606}{3011}, \frac{448}{3011}, -\frac{710}{3011}, \frac{142}{3011})$ $+ \frac{4}{3011}\sqrt{228567}e^6 \otimes e_9 + \frac{4}{3011}\sqrt{257115}e^1 \otimes e_8$	{1259, 1579, 245678, 4568}
931:26	$0, 0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{817802}e^{12}, \frac{68}{1277}\sqrt{201}e^{34},$ $\frac{20}{1277}\sqrt{1139}e^{13} + \frac{1}{1277}\sqrt{129846}e^{27} + \frac{7}{1277}\sqrt{6834}e^{45}$	$(\frac{718}{1277}, -\frac{192}{1277}, -\frac{384}{1277}, -\frac{37}{1277}, \frac{371}{1277}, \frac{224}{1277}, \frac{526}{1277}, -\frac{421}{1277}, \frac{334}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^1 \otimes e_8$	{1269, 129, 1679, 179, 24678, 2478, 468, 48}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{2945}\sqrt{36974}e^{12}, \frac{4}{2945}\sqrt{79786}e^{34},$ $\frac{4}{2945}\sqrt{60326}e^{13} + \frac{4}{2945}\sqrt{419363}e^{27} + \frac{2}{2945}\sqrt{259791}e^{45}$	$(\frac{4}{155}, -\frac{107}{2945}, -\frac{214}{2945}, \frac{904}{2945}, -\frac{1042}{2945}, \frac{1808}{2945}, -\frac{1}{95}, \frac{138}{589}, -\frac{138}{2945})$ $+ \frac{2}{2945}\sqrt{1106301}e^4 \otimes e_5 + \frac{2}{2945}\sqrt{1406958}e^6 \otimes e_9$	{12489, 1259, 14789, 1579}
931:26	$0, 0, 0, 0, 0, 0, \frac{4}{2275}\sqrt{36223}e^{12}, \frac{66}{2275}\sqrt{178}e^{34},$ $\frac{2}{2275}\sqrt{105554}e^{13} + \frac{4}{2275}\sqrt{168566}e^{27} + \frac{2}{2275}\sqrt{71022}e^{45}$	$(\frac{1}{91}, \frac{88}{2275}, \frac{176}{2275}, -\frac{444}{2275}, \frac{129}{455}, -\frac{36}{455}, \frac{113}{2275}, -\frac{268}{2275}, \frac{201}{2275})$ $+ \frac{2}{2275}\sqrt{285334}e^2 \otimes e_8 + \frac{4}{2275}\sqrt{18957}e^3 \otimes e_6$	{123459, 13789, 2347, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{383}e^{12}, \frac{2}{311}\sqrt{23746}e^{34},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{1}{311}\sqrt{30257}e^{27} + \frac{3}{311}\sqrt{1915}e^{45}$	$(\frac{64}{311}, -\frac{14}{311}, -\frac{28}{311}, -\frac{44}{311}, \frac{80}{311}, 1, \frac{50}{311}, -\frac{72}{311}, \frac{36}{311})$ $+ \frac{13}{311}\sqrt{1149}e^6 \otimes e_8$	{1234569, 12389, 1345679, 13789, 23467, 23578, 346, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{46}{3285}\sqrt{46}e^{12}, \frac{92}{3285}\sqrt{186}e^{34},$ $\frac{92}{3285}\sqrt{86}e^{13} + \frac{46}{3285}\sqrt{283}e^{27} + \frac{46}{3285}\sqrt{89}e^{45}$	$(\frac{92}{365}, -\frac{391}{3285}, -\frac{782}{3285}, \frac{184}{1095}, -\frac{506}{3285}, \frac{368}{1095}, \frac{437}{3285}, -\frac{46}{657}, \frac{46}{3285})$ $+ \frac{46}{3285}\sqrt{798}e^6 \otimes e_9 + \frac{46}{3285}\sqrt{901}e^4 \otimes e_5 + \frac{736}{3285}\sqrt{5}e^1 \otimes e_8$	{24678, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:26	$0, 0, 0, 0, 0, 0, \frac{100}{4081}\sqrt{110}e^{12}, \frac{50}{4081}\sqrt{1230}e^{34},$ $\frac{650}{4081}\sqrt{6}e^{13} + \frac{100}{4081}\sqrt{2}e^{27} + \frac{50}{4081}\sqrt{623}e^{45}$	$(\frac{80}{371}, -\frac{65}{4081}, -\frac{130}{4081}, -\frac{240}{4081}, \frac{90}{371}, -\frac{1380}{4081}, \frac{815}{4081}, -\frac{370}{4081}, \frac{750}{4081})$ $+ \frac{50}{4081}\sqrt{1747}e^3 \otimes e_6 + \frac{50}{4081}\sqrt{1967}e^1 \otimes e_8$	{1234, 1347, 23789, 389}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1577}e^{12}, \frac{2}{157}\sqrt{3901}e^{34},$ $\frac{2}{157}\sqrt{2407}e^{13} + \frac{4}{157}\sqrt{83}e^{27} + \frac{6}{157}\sqrt{415}e^{45}$	$(\frac{38}{157}, \frac{5}{157}, \frac{10}{157}, \frac{65}{157}, -\frac{17}{157}, -\frac{101}{157}, \frac{43}{157}, \frac{75}{157}, \frac{48}{157})$ $+ \frac{2}{157}\sqrt{10707}e^4 \otimes e_6$	{12349, 1235689, 13479, 1356789, 23457, 23678, 345, 368}
931:26	$0, 0, 0, 0, 0, 0, \frac{5}{1413}\sqrt{18970}e^{12}, \frac{20}{1413}\sqrt{1015}e^{34},$ $\frac{20}{1413}\sqrt{455}e^{13} + \frac{25}{1413}\sqrt{42}e^{27} + \frac{3}{471}\sqrt{910}e^{45}$	$(\frac{542}{1413}, -\frac{80}{1413}, -\frac{160}{1413}, -\frac{173}{1413}, \frac{185}{471}, -\frac{320}{1413}, \frac{154}{471}, -\frac{37}{157}, \frac{382}{1413})$ $+ \frac{20}{1413}\sqrt{2170}e^5 \otimes e_6 + \frac{5}{1413}\sqrt{51870}e^1 \otimes e_8$	{12345, 13457, 235789, 3589}
931:26	$0, 0, 0, 0, 0, 0, \frac{1}{371}\sqrt{20670}e^{12}, \frac{2}{371}\sqrt{5135}e^{34},$ $\frac{2}{371}\sqrt{3445}e^{13} + \frac{2}{371}\sqrt{5135}e^{27} + \frac{4}{371}\sqrt{455}e^{45}$	$(\frac{48}{371}, -\frac{5}{371}, -\frac{10}{371}, -\frac{60}{371}, \frac{14}{53}, -\frac{17}{371}, \frac{43}{371}, -\frac{10}{53}, \frac{38}{371})$ $+ \frac{1}{371}\sqrt{7670}e^1 \otimes e_6 + \frac{30}{371}\sqrt{39}e^2 \otimes e_8$	{123459, 13789, 23467, 3568}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{25942}e^{12}, \frac{2}{669}\sqrt{17113}e^{34},$ $\frac{2}{223}\sqrt{545}e^{13} + \frac{2}{669}\sqrt{18094}e^{27} + \frac{4}{669}\sqrt{1853}e^{45}$	$(\frac{55}{223}, -\frac{19}{669}, -\frac{38}{669}, -\frac{5}{223}, \frac{142}{669}, -\frac{79}{223}, \frac{146}{669}, -\frac{53}{669}, \frac{127}{669})$ $+ \frac{2}{669}\sqrt{33899}e^2 \otimes e_6 + \frac{4}{669}\sqrt{7739}e^1 \otimes e_8$	{123459, 1345679, 23578, 3568}
931:26	$0, 0, 0, 0, 0, 0, \frac{8}{201}\sqrt{127}e^{12}, \frac{2}{201}\sqrt{1270}e^{34},$ $\frac{2}{201}\sqrt{1651}e^{13} + \frac{2}{201}\sqrt{1270}e^{27} + \frac{2}{201}\sqrt{9906}e^{45}$	$(\frac{32}{201}, \frac{29}{201}, \frac{58}{201}, -\frac{11}{67}, \frac{41}{67}, -\frac{131}{201}, \frac{61}{201}, \frac{25}{201}, \frac{30}{67})$ $+ \frac{2}{201}\sqrt{21082}e^5 \otimes e_6$	{1245, 1268, 1457, 1678, 24679, 25789, 469, 589}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{381}\sqrt{9570}e^{12}, \frac{14}{381}\sqrt{174}e^{34},$ $\frac{2}{381}\sqrt{7395}e^{13} + \frac{4}{127}\sqrt{290}e^{27} + \frac{2}{127}\sqrt{290}e^{45}$	$(\frac{6}{127}, \frac{5}{127}, \frac{10}{127}, \frac{37}{127}, -\frac{21}{127}, -\frac{53}{127}, \frac{11}{127}, \frac{47}{127}, \frac{16}{127})$ $+ \frac{2}{381}\sqrt{17574}e^2 \otimes e_6 + \frac{4}{381}\sqrt{2958}e^4 \otimes e_5$	{2347, 23578, 346, 3568}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{1007}\sqrt{66410}e^{12}, \frac{4}{1007}\sqrt{12595}e^{34},$ $\frac{2}{1007}\sqrt{56563}e^{13} + \frac{4}{1007}\sqrt{14885}e^{27} + \frac{6}{1007}\sqrt{2290}e^{45}$	$(\frac{4}{53}, \frac{73}{1007}, \frac{146}{1007}, -\frac{191}{1007}, \frac{413}{1007}, -\frac{385}{1007}, \frac{149}{1007}, -\frac{45}{1007}, \frac{222}{1007})$ $+ \frac{12}{1007}\sqrt{3206}e^2 \otimes e_6 + \frac{16}{1007}\sqrt{1374}e^5 \otimes e_8$	{23457, 2378, 3456, 368}
931:26	$0, 0, 0, 0, 0, 0, \frac{18}{3989}\sqrt{769}e^{12}, \frac{9}{3989}\sqrt{4318}e^{34},$ $\frac{108}{3989}\sqrt{21}e^{13} + \frac{18}{3989}\sqrt{854}e^{27} + \frac{9}{3989}\sqrt{1486}e^{45}$	$(\frac{333}{3989}, -\frac{144}{3989}, \frac{288}{3989}, \frac{63}{3989}, -\frac{18}{3989}, \frac{126}{3989}, \frac{189}{3989}, -\frac{225}{3989}, \frac{45}{3989})$ $+ \frac{72}{3989}\sqrt{35}e^4 \otimes e_5 + \frac{9}{3989}\sqrt{466}e^6 \otimes e_9 + \frac{9}{3989}\sqrt{5486}e^2 \otimes e_8$	{2347, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{4}{3905}\sqrt{4965}e^{12}, \frac{8}{3905}\sqrt{82419}e^{34},$ $\frac{2}{3905}\sqrt{430962}e^{13} + \frac{2}{3905}\sqrt{149943}e^{27} + \frac{18}{3905}\sqrt{6289}e^{45}$	$(-\frac{8}{781}, \frac{243}{3905}, \frac{486}{3905}, \frac{1216}{3905}, -\frac{14}{71}, -\frac{300}{781}, \frac{203}{3905}, \frac{1702}{3905}, \frac{446}{3905})$ $+ \frac{2}{3905}\sqrt{1645401}e^4 \otimes e_5 + \frac{2}{3905}\sqrt{1860882}e^3 \otimes e_6$	{12347, 123578, 134, 1358}
931:26	$0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{10230}e^{12}, \frac{2}{137}\sqrt{310}e^{34},$ $\frac{2}{137}\sqrt{2945}e^{13} + \frac{2}{137}\sqrt{310}e^{27} + \frac{2}{137}\sqrt{155}e^{45}$	$(\frac{66}{137}, -\frac{5}{137}, -\frac{10}{137}, \frac{30}{137}, \frac{26}{137}, -\frac{89}{137}, \frac{61}{137}, \frac{20}{137}, \frac{56}{137})$ $+ \frac{1}{137}\sqrt{35030}e^1 \otimes e_6$	{12348, 1235, 13478, 1357, 23456789, 23679, 345689, 369}
931:26	$0, 0, 0, 0, 0, 0, \frac{18}{3317}\sqrt{561}e^{12}, \frac{18}{3317}\sqrt{10549}e^{34},$ $\frac{18}{3317}\sqrt{2233}e^{13} + \frac{36}{3317}\sqrt{77}e^{27} + \frac{18}{3317}\sqrt{2607}e^{45}$	$(\frac{102}{3317}, \frac{333}{3317}, \frac{666}{3317}, -\frac{840}{3317}, \frac{1608}{3317}, -\frac{36}{107}, \frac{435}{3317}, -\frac{174}{3317}, \frac{768}{3317})$ $+ \frac{144}{3317}\sqrt{253}e^3 \otimes e_6 + \frac{18}{3317}\sqrt{16379}e^5 \otimes e_8$	{12345, 1238, 13457, 1378}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{1121}\sqrt{23822}e^{12}, \frac{4}{1121}\sqrt{31855}e^{34},$ $\frac{2}{1121}\sqrt{41827}e^{13} + \frac{2}{1121}\sqrt{33794}e^{27} + \frac{12}{1121}\sqrt{831}e^{45}$	$(\frac{172}{1121}, -\frac{101}{1121}, -\frac{202}{1121}, \frac{262}{1121}, -\frac{292}{1121}, \frac{614}{1121}, \frac{71}{1121}, \frac{60}{1121}, -\frac{30}{1121})$ $+ \frac{26}{1121}\sqrt{831}e^4 \otimes e_5 + \frac{26}{1121}\sqrt{831}e^6 \otimes e_8$	{23467, 23578, 346, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{145090}e^{12}, \frac{26}{1211}\sqrt{1319}e^{34},$ $\frac{1}{1211}\sqrt{962870}e^{13} + \frac{1}{1211}\sqrt{2638}e^{27} + \frac{4}{1211}\sqrt{27699}e^{45}$	$(-\frac{110}{1211}, \frac{254}{1211}, \frac{508}{1211}, \frac{30}{1211}, \frac{368}{1211}, -\frac{811}{1211}, \frac{144}{1211}, \frac{538}{1211}, \frac{398}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_6$	{12347, 123578, 134, 1358, 23459, 2389, 34579, 3789}
931:26	$0, 0, 0, 0, 0, 0, \frac{4}{189}\sqrt{357}e^{12}, \frac{68}{567}\sqrt{21}e^{34},$ $\frac{2}{567}\sqrt{2618}e^{13} + \frac{8}{81}\sqrt{85}e^{27} + \frac{2}{567}\sqrt{7973}e^{45}$	$(\frac{8}{21}, -\frac{83}{567}, -\frac{166}{567}, \frac{16}{63}, \frac{94}{567}, \frac{20}{189}, \frac{19}{81}, -\frac{22}{567}, \frac{50}{567})$ $+ \frac{2}{567}\sqrt{34034}e^1 \otimes e_8 + \frac{34}{567}\sqrt{91}e^4 \otimes e_5$	{24678, 2478, 468, 48}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{3565}\sqrt{55126}e^{12}, \frac{2}{3565}\sqrt{76798}e^{34},$ $\frac{2}{3565}\sqrt{52331}e^{13} + \frac{2}{3565}\sqrt{63382}e^{27} + \frac{48}{3565}\sqrt{43}e^{45}$	$(\frac{50}{713}, -\frac{127}{3565}, \frac{254}{3565}, \frac{41}{3565}, -\frac{9}{713}, \frac{63}{713}, \frac{123}{3565}, -\frac{213}{3565}, -\frac{4}{3565})$ $+ \frac{12}{3565}\sqrt{1118}e^4 \otimes e_5 + \frac{2}{3565}\sqrt{99502}e^2 \otimes e_8$	{23467, 2347, 3568, 358}
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{317}\sqrt{17018}e^{12}, \frac{4}{317}\sqrt{1651}e^{34},$ $\frac{2}{317}\sqrt{10795}e^{13} + \frac{4}{317}\sqrt{4445}e^{27} + \frac{6}{317}\sqrt{254}e^{45}$	$(\frac{4}{317}, \frac{43}{317}, \frac{86}{317}, \frac{19}{317}, \frac{71}{317}, -\frac{211}{317}, \frac{47}{317}, \frac{105}{317}, \frac{90}{317})$ $+ \frac{4}{317}\sqrt{8382}e^2 \otimes e_6$	{123459, 12389, 1345679, 136789, 2347, 23578, 346, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:26	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{1}{25}\sqrt{110}e^{34},$ $\frac{4}{25}\sqrt{5}e^{13} + \frac{2}{25}\sqrt{30}e^{27} + \frac{1}{25}\sqrt{30}e^{45}$	$(\frac{1}{25}, 0, 0, -\frac{1}{5}, \frac{6}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{1}{5}, \frac{1}{25})$ $+\frac{1}{25}\sqrt{190}e^2 \otimes e_8 + \frac{1}{25}\sqrt{30}e^6 \otimes e_9$	{123459, 13789, 23467, 3568}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{433}\sqrt{4142}e^{12}, \frac{2}{433}\sqrt{2071}e^{14} + \frac{2}{433}\sqrt{4142}e^{35},$ $\frac{4}{433}\sqrt{4578}e^{13} + \frac{4}{433}\sqrt{654}e^{27}$	$(-\frac{76}{433}, \frac{49}{433}, \frac{98}{433}, \frac{54}{433}, -\frac{120}{433}, \frac{240}{433}, -\frac{27}{433}, -\frac{22}{433}, \frac{22}{433})$ $+\frac{2}{433}\sqrt{21037}e^3 \otimes e_5 + \frac{2}{433}\sqrt{22345}e^6 \otimes e_9$	{12367, 136, 2349, 3479}
931:27	$0, 0, 0, 0, 0, 0, \frac{12}{739}\sqrt{434}e^{12}, \frac{8}{739}\sqrt{1281}e^{14} + \frac{12}{739}\sqrt{434}e^{35},$ $\frac{28}{739}\sqrt{210}e^{13} + \frac{24}{739}\sqrt{70}e^{27}$	$(\frac{186}{739}, \frac{32}{739}, \frac{64}{739}, -\frac{150}{739}, -\frac{28}{739}, -\frac{272}{739}, \frac{218}{739}, \frac{36}{739}, \frac{250}{739})$ $+\frac{4}{739}\sqrt{14154}e^1 \otimes e_4 + \frac{4}{739}\sqrt{14154}e^3 \otimes e_6$	{1235, 1357, 234579, 3459}
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{3011}\sqrt{52338}e^{12}, \frac{12}{3011}\sqrt{2379}e^{14} + \frac{52}{3011}\sqrt{366}e^{35},$ $\frac{4}{3011}\sqrt{115473}e^{13} + \frac{4}{3011}\sqrt{68991}e^{27}$	$(\frac{572}{3011}, -\frac{306}{3011}, -\frac{612}{3011}, \frac{240}{3011}, \frac{1424}{3011}, -\frac{892}{3011}, \frac{266}{3011}, \frac{812}{3011}, -\frac{40}{3011})$ $+\frac{4}{3011}\sqrt{228567}e^1 \otimes e_6 + \frac{4}{3011}\sqrt{257115}e^5 \otimes e_9$	{1249, 1479, 245678, 4568}
931:27	$0, 0, 0, 0, 0, 0, \frac{5}{329}\sqrt{542}e^{12}, \frac{1}{658}\sqrt{50406}e^{14} + \frac{1}{658}\sqrt{271}e^{35},$ $\frac{1}{329}\sqrt{2710}e^{13} + \frac{1}{329}\sqrt{30623}e^{27}$	$(-\frac{197}{1316}, \frac{1}{14}, \frac{1}{7}, \frac{533}{1316}, \frac{37}{329}, -\frac{16}{47}, -\frac{103}{1316}, \frac{12}{47}, -\frac{9}{1316})$ $+\frac{1}{658}\sqrt{154470}e^4 \otimes e_9 + \frac{1}{658}\sqrt{161787}e^2 \otimes e_6$	{12389, 136789, 23478, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{12}{553}\sqrt{706}e^{12}, \frac{1}{553}\sqrt{23298}e^{14} + \frac{1}{553}\sqrt{27534}e^{35},$ $\frac{1}{553}\sqrt{10590}e^{13} + \frac{1}{553}\sqrt{93898}e^{27}$	$(-\frac{27}{553}, \frac{107}{553}, \frac{214}{553}, \frac{102}{553}, -\frac{139}{553}, -\frac{246}{553}, \frac{80}{553}, \frac{75}{553}, \frac{187}{553})$ $+\frac{13}{553}\sqrt{706}e^3 \otimes e_5 + \frac{3}{553}\sqrt{24710}e^2 \otimes e_6$	{123489, 1346789, 2378, 368}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{1407}\sqrt{2190}e^{12}, \frac{2}{201}\sqrt{3}e^{14} + \frac{2}{469}\sqrt{89}e^{35},$ $\frac{1}{1407}\sqrt{1758}e^{13} + \frac{2}{1407}\sqrt{789}e^{27}$	$(-\frac{11}{469}, \frac{3}{469}, \frac{6}{469}, \frac{13}{469}, -\frac{4}{469}, \frac{5}{469}, -\frac{8}{469}, \frac{2}{469}, -\frac{5}{469})$ $+\frac{1}{1407}\sqrt{2310}e^5 \otimes e_9 + \frac{1}{1407}\sqrt{4578}e^2 \otimes e_8 + \frac{1}{1407}\sqrt{183}e^3 \otimes e_6$	{13789, 2357}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{794}\sqrt{200330}e^{12}, \frac{1}{794}\sqrt{58290}e^{14} + \frac{25}{794}\sqrt{67}e^{35},$ $\frac{1}{397}\sqrt{670}e^{13} + \frac{1}{794}\sqrt{111890}e^{27}$	$(\frac{395}{1588}, \frac{19}{794}, \frac{19}{397}, -\frac{275}{1588}, \frac{11}{397}, -\frac{158}{397}, \frac{433}{1588}, \frac{30}{397}, \frac{471}{1588})$ $+\frac{1}{794}\sqrt{207030}e^1 \otimes e_4 + \frac{3}{794}\sqrt{29815}e^2 \otimes e_6$	{12359, 135679, 23457, 3456}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{325}\sqrt{4991}e^{12}, \frac{4}{325}\sqrt{651}e^{14} + \frac{1}{325}\sqrt{20398}e^{35},$ $\frac{1}{325}\sqrt{8246}e^{13} + \frac{7}{325}\sqrt{62}e^{27}$	$(\frac{92}{325}, -\frac{1}{25}, -\frac{2}{25}, -\frac{5}{13}, -\frac{7}{325}, \frac{184}{325}, \frac{79}{325}, -\frac{33}{325}, \frac{66}{325})$ $+\frac{12}{325}\sqrt{434}e^6 \otimes e_8 + \frac{1}{325}\sqrt{61194}e^1 \otimes e_4$	{12589, 15789, 24578, 458}
931:27	$0, 0, 0, 0, 0, 0, \frac{11}{375}\sqrt{66}e^{12}, \frac{44}{375}e^{14} + \frac{33}{125}\sqrt{2}e^{35},$ $\frac{22}{375}\sqrt{21}e^{13} + \frac{22}{375}\sqrt{23}e^{27}$	$(\frac{22}{125}, -\frac{44}{375}, -\frac{88}{375}, -\frac{11}{75}, \frac{33}{125}, \frac{44}{125}, \frac{22}{375}, \frac{11}{375}, -\frac{22}{375})$ $+\frac{11}{375}\sqrt{194}e^6 \otimes e_8 + \frac{11}{375}\sqrt{290}e^5 \otimes e_9 + \frac{154}{375}e^1 \otimes e_4$	{1269, 1679}
931:27	$0, 0, 0, 0, 0, 0, \frac{80}{371}\sqrt{3}e^{12}, \frac{24}{371}\sqrt{14}e^{14} + \frac{16}{371}\sqrt{69}e^{35},$ $\frac{16}{371}\sqrt{71}e^{13} + \frac{8}{371}\sqrt{318}e^{27}$	$(\frac{13}{371}, \frac{26}{371}, \frac{52}{371}, -\frac{51}{371}, -\frac{90}{371}, \frac{48}{371}, \frac{39}{371}, -\frac{38}{371}, \frac{65}{371})$ $+\frac{48}{371}\sqrt{2}e^1 \otimes e_4 + \frac{8}{371}\sqrt{574}e^2 \otimes e_8$	{136789, 13789, 3468, 348}
931:27	$0, 0, 0, 0, 0, 0, \frac{16}{133}e^{12}, \frac{20}{133}\sqrt{2}e^{14} + \frac{4}{133}\sqrt{42}e^{35},$ $\frac{8}{133}\sqrt{51}e^{13} + \frac{8}{133}e^{27}$	$(\frac{8}{133}, \frac{4}{133}, \frac{8}{133}, -\frac{24}{133}, -\frac{24}{133}, \frac{48}{133}, \frac{12}{133}, -\frac{16}{133}, \frac{16}{133})$ $+\frac{4}{133}\sqrt{166}e^3 \otimes e_5 + \frac{4}{133}\sqrt{174}e^1 \otimes e_4 + \frac{8}{133}\sqrt{41}e^6 \otimes e_9$	{1236, 1367, 23479, 349}
931:27	$0, 0, 0, 0, 0, 0, \frac{16}{133}e^{12}, \frac{20}{133}\sqrt{2}e^{14} + \frac{4}{133}\sqrt{42}e^{35},$ $\frac{8}{133}\sqrt{51}e^{13} + \frac{8}{133}e^{27}$	$(\frac{8}{133}, \frac{4}{133}, \frac{8}{133}, -\frac{24}{133}, -\frac{24}{133}, \frac{48}{133}, \frac{12}{133}, -\frac{16}{133}, \frac{16}{133})$ $-\frac{4}{133}\sqrt{166}e^3 \otimes e_5 + \frac{4}{133}\sqrt{174}e^1 \otimes e_4 + \frac{8}{133}\sqrt{41}e^6 \otimes e_9$	{1236, 1367, 23479, 349}
931:27	$0, 0, 0, 0, 0, 0, \frac{7}{1081}\sqrt{741}e^{12}, \frac{119}{1081}e^{14} + \frac{28}{1081}\sqrt{57}e^{35},$ $\frac{21}{1081}\sqrt{95}e^{13} + \frac{14}{1081}\sqrt{210}e^{27}$	$(\frac{21}{1081}, \frac{42}{1081}, \frac{84}{1081}, -\frac{28}{1081}, -\frac{91}{1081}, -\frac{140}{1081}, \frac{63}{1081}, -\frac{7}{1081}, \frac{105}{1081})$ $+\frac{14}{1081}\sqrt{2}e^1 \otimes e_4 + \frac{7}{1081}\sqrt{505}e^5 \otimes e_6 + \frac{84}{1081}\sqrt{10}e^2 \otimes e_8$	{123459, 2357}
931:27	$0, 0, 0, 0, 0, 0, \frac{7}{527}\sqrt{754}e^{12}, \frac{1}{527}\sqrt{70122}e^{14} + \frac{7}{527}\sqrt{754}e^{35},$ $\frac{1}{527}\sqrt{79170}e^{13} + \frac{6}{527}\sqrt{377}e^{27}$	$(-\frac{98}{527}, \frac{118}{527}, \frac{236}{527}, \frac{193}{527}, -\frac{141}{527}, -\frac{184}{527}, \frac{20}{527}, \frac{95}{527}, \frac{138}{527})$ $+\frac{1}{527}\sqrt{177190}e^4 \otimes e_6 + \frac{1}{527}\sqrt{181714}e^3 \otimes e_5$	{124579, 1459, 256, 567}
931:27	$0, 0, 0, 0, 0, 0, \frac{14}{341}\sqrt{57}e^{12}, \frac{21}{341}\sqrt{10}e^{14} + \frac{14}{341}\sqrt{51}e^{35},$ $\frac{7}{341}\sqrt{182}e^{13} + \frac{14}{341}\sqrt{66}e^{27}$	$(\frac{7}{341}, \frac{14}{341}, \frac{28}{341}, -\frac{42}{341}, -\frac{63}{341}, \frac{84}{341}, \frac{21}{341}, -\frac{35}{341}, \frac{35}{341})$ $+\frac{21}{341}\sqrt{10}e^6 \otimes e_9 + \frac{42}{341}\sqrt{2}e^1 \otimes e_4 + \frac{7}{341}\sqrt{442}e^2 \otimes e_8$	{13789, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{66}e^{12}, \frac{4}{103}\sqrt{33}e^{14} + \frac{4}{103}\sqrt{66}e^{35},$ $\frac{8}{103}\sqrt{22}e^{13} + \frac{4}{103}\sqrt{77}e^{27}$	$(\frac{7}{103}, 0, 0, -\frac{15}{103}, -\frac{8}{103}, \frac{18}{103}, \frac{7}{103}, -\frac{8}{103}, \frac{7}{103})$ $+\frac{20}{103}\sqrt{5}e^2 \otimes e_8 + \frac{8}{103}\sqrt{10}e^3 \otimes e_5$	{1234569, 123459, 23567, 2357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{2281}\sqrt{165}e^{12}, \frac{6}{2281}\sqrt{30}e^{14} + \frac{4}{2281}\sqrt{195}e^{35},$ $\frac{2}{2281}\sqrt{530}e^{13} + \frac{2}{2281}\sqrt{870}e^{27}$	$(\frac{29}{2281}, -\frac{11}{2281}, -\frac{22}{2281}, -\frac{42}{2281}, \frac{9}{2281}, \frac{27}{2281}, \frac{18}{2281}, -\frac{13}{2281}, \frac{7}{2281})$ $+ \frac{2}{2281}\sqrt{1291}e^2 \otimes e_8 + \frac{2}{2281}\sqrt{201}e^1 \otimes e_6 + \frac{2}{2281}\sqrt{561}e^5 \otimes e_9$	{13789, 23567}
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{317}\sqrt{4445}e^{12}, \frac{6}{317}\sqrt{254}e^{14} + \frac{4}{317}\sqrt{1651}e^{35},$ $\frac{317}{317}\sqrt{10795}e^{13} + \frac{2}{317}\sqrt{17018}e^{27}$	$(\frac{16}{317}, \frac{43}{317}, \frac{86}{317}, \frac{71}{317}, \frac{1}{317}, -\frac{211}{317}, \frac{59}{317}, \frac{87}{317}, \frac{102}{317})$ $+ \frac{4}{317}\sqrt{8382}e^2 \otimes e_6$	{123489, 12359, 1346789, 135679, 23457, 2378, 3456, 368}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{399}e^{12}, \frac{1}{119}\sqrt{798}e^{14} + \frac{2}{119}\sqrt{399}e^{35},$ $\frac{119}{119}\sqrt{1634}e^{13} + \frac{6}{119}\sqrt{57}e^{27}$	$(-\frac{5}{119}, \frac{8}{119}, \frac{16}{119}, -\frac{6}{119}, -\frac{27}{119}, \frac{30}{119}, \frac{3}{119}, -\frac{11}{119}, \frac{11}{119})$ $+ \frac{1}{119}\sqrt{3382}e^2 \otimes e_8 + \frac{1}{119}\sqrt{570}e^6 \otimes e_9$	{123459, 13789, 23567, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{26}{1211}\sqrt{1319}e^{12}, \frac{4}{1211}\sqrt{27699}e^{14} + \frac{1}{1211}\sqrt{2638}e^{35},$ $\frac{1}{1211}\sqrt{962870}e^{13} + \frac{1}{1211}\sqrt{145090}e^{27}$	$(\frac{676}{1211}, -\frac{83}{1211}, -\frac{166}{1211}, -\frac{643}{1211}, \frac{199}{1211}, \frac{200}{1211}, \frac{593}{1211}, \frac{33}{1211}, \frac{510}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^1 \otimes e_4$	{1235, 12356, 13567, 1357, 2345679, 234579, 34569, 3459}
931:27	$0, 0, 0, 0, 0, 0, \frac{22}{389}\sqrt{22}e^{12}, \frac{11}{389}\sqrt{186}e^{14} + \frac{22}{389}\sqrt{5}e^{35},$ $\frac{11}{389}\sqrt{138}e^{13} + \frac{11}{389}\sqrt{82}e^{27}$	$(-\frac{88}{389}, \frac{33}{389}, \frac{66}{389}, \frac{99}{389}, -\frac{55}{389}, \frac{132}{389}, -\frac{55}{389}, \frac{11}{389}, -\frac{22}{389})$ $+ \frac{11}{389}\sqrt{190}e^3 \otimes e_5 + \frac{198}{389}e^4 \otimes e_9 + \frac{22}{389}\sqrt{51}e^6 \otimes e_8$	{123467, 1346, 2369, 3679}
931:27	$0, 0, 0, 0, 0, 0, \frac{22}{389}\sqrt{22}e^{12}, \frac{11}{389}\sqrt{186}e^{14} + \frac{22}{389}\sqrt{5}e^{35},$ $\frac{11}{389}\sqrt{138}e^{13} + \frac{11}{389}\sqrt{82}e^{27}$	$(-\frac{88}{389}, \frac{33}{389}, \frac{66}{389}, \frac{99}{389}, -\frac{55}{389}, \frac{132}{389}, -\frac{55}{389}, \frac{11}{389}, -\frac{22}{389})$ $+ \frac{11}{389}\sqrt{190}e^3 \otimes e_5 - \frac{198}{389}e^4 \otimes e_9 + \frac{22}{389}\sqrt{51}e^6 \otimes e_8$	{123467, 1346, 2369, 3679}
931:27	$0, 0, 0, 0, 0, 0, \frac{3}{1693}\sqrt{39674}e^{12}, \frac{249}{1693}\sqrt{6}e^{14} + \frac{6}{1693}\sqrt{11537}e^{35},$ $\frac{6}{1693}\sqrt{17015}e^{13} + \frac{3}{1693}\sqrt{32370}e^{27}$	$(\frac{478}{1693}, -\frac{254}{1693}, -\frac{508}{1693}, -\frac{269}{1693}, \frac{717}{1693}, \frac{180}{1693}, \frac{224}{1693}, \frac{209}{1693}, -\frac{30}{1693})$ $+ \frac{3}{1693}\sqrt{135290}e^5 \otimes e_9 + \frac{6}{1693}\sqrt{28967}e^1 \otimes e_4$	{1269, 129, 1679, 179}
931:27	$0, 0, 0, 0, 0, 0, \frac{48}{749}\sqrt{11}e^{12}, \frac{24}{749}\sqrt{42}e^{14} + \frac{48}{749}\sqrt{11}e^{35},$ $\frac{16}{749}\sqrt{107}e^{13} + \frac{8}{749}\sqrt{642}e^{27}$	$(-\frac{89}{749}, \frac{50}{749}, \frac{100}{749}, \frac{75}{749}, -\frac{114}{749}, \frac{12}{107}, -\frac{39}{107}, -\frac{2}{107}, \frac{11}{749})$ $+ \frac{48}{749}\sqrt{10}e^4 \otimes e_9 + \frac{8}{749}\sqrt{970}e^2 \otimes e_8$	{136789, 13789, 3468, 348}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{651}e^{12}, \frac{3}{71}\sqrt{93}e^{14} + \frac{1}{71}\sqrt{651}e^{35},$ $\frac{4}{71}\sqrt{93}e^{13} + \frac{1}{71}\sqrt{403}e^{27}$	$(-\frac{21}{71}, \frac{10}{71}, \frac{20}{71}, \frac{30}{71}, -\frac{11}{71}, \frac{6}{71}, \frac{11}{71}, \frac{9}{71}, -\frac{1}{71})$ $+ \frac{1}{71}\sqrt{1705}e^3 \otimes e_5 - \frac{5}{71}\sqrt{93}e^4 \otimes e_9$	{123467, 12347, 134, 1346, 2369, 239, 3679, 379}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{651}e^{12}, \frac{3}{71}\sqrt{93}e^{14} + \frac{1}{71}\sqrt{651}e^{35},$ $\frac{4}{71}\sqrt{93}e^{13} + \frac{1}{71}\sqrt{403}e^{27}$	$(-\frac{21}{71}, \frac{10}{71}, \frac{20}{71}, \frac{30}{71}, -\frac{11}{71}, \frac{6}{71}, -\frac{11}{71}, \frac{9}{71}, -\frac{1}{71})$ $+ \frac{1}{71}\sqrt{1705}e^3 \otimes e_5 + \frac{5}{71}\sqrt{93}e^4 \otimes e_9$	{123467, 12347, 134, 1346, 2369, 239, 3679, 379}
931:27	$0, 0, 0, 0, 0, 0, \frac{55}{1097}\sqrt{5}e^{12}, \frac{5}{1097}\sqrt{381}e^{14} + \frac{20}{1097}\sqrt{46}e^{35},$ $\frac{5}{1097}\sqrt{683}e^{13} + \frac{30}{1097}\sqrt{23}e^{27}$	$(-\frac{45}{1097}, \frac{40}{1097}, \frac{80}{1097}, \frac{60}{1097}, -\frac{65}{1097}, -\frac{90}{1097}, -\frac{5}{1097}, \frac{15}{1097}, \frac{35}{1097})$ $+ \frac{50}{1097}\sqrt{13}e^2 \otimes e_8 + \frac{5}{1097}\sqrt{393}e^5 \otimes e_6 + \frac{60}{1097}\sqrt{2}e^4 \otimes e_9$	{136789, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{931}\sqrt{15794}e^{12}, \frac{6}{931}\sqrt{1378}e^{14} + \frac{2}{931}\sqrt{15794}e^{35},$ $\frac{2}{931}\sqrt{19451}e^{13} + \frac{4}{931}\sqrt{4982}e^{27}$	$(-\frac{60}{931}, \frac{87}{931}, \frac{174}{931}, \frac{41}{931}, -\frac{193}{931}, -\frac{65}{931}, \frac{27}{931}, -\frac{1}{49}, \frac{6}{49})$ $+ \frac{2}{931}\sqrt{9010}e^4 \otimes e_6 + \frac{8}{931}\sqrt{2173}e^2 \otimes e_8$	{123459, 136789, 23567, 348}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{1211}\sqrt{2638}e^{12}, \frac{4}{1211}\sqrt{27699}e^{14} + \frac{26}{1211}\sqrt{1319}e^{35},$ $\frac{1}{1211}\sqrt{962870}e^{13} + \frac{1}{1211}\sqrt{145090}e^{27}$	$(\frac{2}{1211}, \frac{254}{1211}, \frac{508}{1211}, \frac{368}{1211}, -\frac{138}{1211}, -\frac{811}{1211}, \frac{256}{1211}, \frac{370}{1211}, \frac{510}{1211})$ $+ \frac{1}{1211}\sqrt{2667018}e^3 \otimes e_6$	{12348, 1235, 13478, 1357, 234579, 23789, 3459, 389}
931:27	$0, 0, 0, 0, 0, 0, \frac{148}{6837}\sqrt{217}e^{12}, \frac{370}{6837}\sqrt{17}e^{14} + \frac{37}{6837}\sqrt{2230}e^{35},$ $\frac{37}{6837}\sqrt{570}e^{13} + \frac{37}{6837}\sqrt{3238}e^{27}$	$(\frac{370}{2279}, -\frac{407}{6837}, -\frac{814}{6837}, -\frac{259}{6837}, \frac{555}{2279}, -\frac{592}{2279}, \frac{703}{6837}, \frac{851}{6837}, \frac{296}{6837})$ $+ \frac{37}{6837}\sqrt{3390}e^1 \otimes e_4 + \frac{74}{6837}\sqrt{1097}e^5 \otimes e_9 + \frac{74}{6837}\sqrt{1181}e^2 \otimes e_6$	{129, 1679}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{409}\sqrt{4646}e^{12}, \frac{4}{409}\sqrt{1010}e^{14} + \frac{2}{409}\sqrt{1717}e^{35},$ $\frac{2}{409}\sqrt{13130}e^{13} + \frac{2}{409}\sqrt{3030}e^{27}$	$(\frac{92}{409}, -\frac{37}{409}, -\frac{74}{409}, -\frac{110}{409}, \frac{56}{409}, \frac{220}{409}, \frac{55}{409}, -\frac{18}{409}, \frac{18}{409})$ $+ \frac{2}{409}\sqrt{18281}e^6 \otimes e_9 + \frac{6}{409}\sqrt{2121}e^1 \otimes e_4$	{1259, 1579, 24567, 456}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{1169}\sqrt{119262}e^{12}, \frac{6}{1169}\sqrt{1946}e^{14} + \frac{2}{1169}\sqrt{24603}e^{35},$ $\frac{2}{1169}\sqrt{25715}e^{13} + \frac{2}{1169}\sqrt{30441}e^{27}$	$(\frac{52}{1169}, \frac{11}{167}, \frac{22}{167}, -\frac{114}{1169}, -\frac{216}{1169}, -\frac{87}{1169}, \frac{129}{1169}, -\frac{62}{1169}, \frac{206}{1169})$ $+ \frac{15}{1169}\sqrt{278}e^1 \otimes e_6 + \frac{2}{1169}\sqrt{56017}e^2 \otimes e_8$	{123459, 13789, 23567, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{1241}\sqrt{556478}e^{12}, \frac{2}{1241}\sqrt{177519}e^{14} + \frac{2}{1241}\sqrt{76799}e^{35},$ $\frac{4}{1241}\sqrt{46583}e^{13} + \frac{2}{1241}\sqrt{17626}e^{27}$	$(\frac{26}{73}, \frac{19}{1241}, \frac{38}{1241}, -\frac{70}{1241}, \frac{334}{1241}, -\frac{817}{1241}, \frac{461}{1241}, \frac{372}{1241}, \frac{480}{1241})$ $+ \frac{7}{1241}\sqrt{52878}e^1 \otimes e_6$	{1234, 12358, 1347, 13578, 23456789, 23679, 345689, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{39}e^{12}, \frac{1}{39}\sqrt{78}e^{14} + \frac{2}{39}\sqrt{39}e^{35},$ $\frac{1}{39}\sqrt{210}e^{13} + \frac{2}{13}\sqrt{5}e^{27}$	$(\frac{1}{13}, 0, 0, -\frac{2}{13}, -\frac{1}{13}, \frac{2}{13}, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{39}\sqrt{6}e^6 \otimes e_9 + \frac{4}{39}\sqrt{6}e^3 \otimes e_5 + \frac{7}{39}\sqrt{6}e^2 \otimes e_8$	{1234569, 2357}
931:27	$0, 0, 0, 0, 0, 0, \frac{15}{5047}\sqrt{310}e^{12}, \frac{5}{5047}\sqrt{1326}e^{14} + \frac{20}{5047}\sqrt{226}e^{35},$ $\frac{20}{5047}\sqrt{173}e^{13} + \frac{5}{5047}\sqrt{4058}e^{27}$	$(-\frac{170}{5047}, \frac{40}{5047}, \frac{80}{5047}, \frac{185}{5047}, -\frac{65}{5047}, \frac{160}{5047}, -\frac{130}{5047}, \frac{15}{5047}, -\frac{90}{5047})$ $+ \frac{20}{5047}\sqrt{370}e^2 \otimes e_8 + \frac{20}{5047}\sqrt{43}e^4 \otimes e_6 + \frac{5}{5047}\sqrt{2478}e^5 \otimes e_9$	{136789, 23567}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{737}\sqrt{5191}e^{12}, \frac{10}{737}\sqrt{537}e^{14} + \frac{4}{737}\sqrt{4117}e^{35},$ $\frac{4}{737}\sqrt{11814}e^{13} + \frac{2}{737}\sqrt{11993}e^{27}$	$(\frac{58}{737}, \frac{101}{737}, \frac{202}{737}, -\frac{12}{737}, -\frac{156}{737}, -\frac{300}{737}, \frac{159}{737}, \frac{46}{737}, \frac{260}{737})$ $+ \frac{2}{67}\sqrt{537}e^1 \otimes e_6 + \frac{2}{737}\sqrt{55669}e^3 \otimes e_5$	{1234, 1347, 23679, 369}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{409}\sqrt{39786}e^{12}, \frac{12}{409}\sqrt{698}e^{14} + \frac{1}{409}\sqrt{39786}e^{35},$ $\frac{1}{409}\sqrt{63518}e^{13} + \frac{2}{409}\sqrt{18497}e^{27}$	$(-\frac{114}{409}, \frac{15}{409}, \frac{30}{409}, \frac{265}{409}, \frac{121}{409}, \frac{64}{409}, -\frac{99}{409}, \frac{151}{409}, -\frac{84}{409})$ $+ \frac{1}{409}\sqrt{240810}e^4 \otimes e_9$	{123467, 12347, 134, 1346, 2369, 239, 3679, 379}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{419}\sqrt{5453}e^{12}, \frac{1}{419}\sqrt{2109}e^{14} + \frac{4}{419}\sqrt{418}e^{35},$ $\frac{1}{419}\sqrt{6251}e^{13} + \frac{18}{419}\sqrt{19}e^{27}$	$(\frac{9}{419}, \frac{16}{419}, \frac{32}{419}, -\frac{12}{419}, -\frac{35}{419}, -\frac{54}{419}, \frac{25}{419}, -\frac{3}{419}, \frac{41}{419})$ $+ \frac{1}{419}\sqrt{3705}e^5 \otimes e_6 + \frac{2}{419}\sqrt{2641}e^2 \otimes e_8$	{123459, 136789, 2357, 3468}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{669}\sqrt{18094}e^{12}, \frac{4}{669}\sqrt{1853}e^{14} + \frac{2}{669}\sqrt{17113}e^{35},$ $\frac{2}{223}\sqrt{545}e^{13} + \frac{2}{669}\sqrt{25942}e^{27}$	$(\frac{7}{223}, -\frac{19}{669}, -\frac{38}{669}, \frac{142}{669}, \frac{67}{223}, -\frac{79}{223}, \frac{2}{669}, \frac{163}{669}, -\frac{17}{669})$ $+ \frac{2}{669}\sqrt{33899}e^2 \otimes e_6 + \frac{4}{669}\sqrt{7739}e^5 \otimes e_9$	{123489, 1346789, 23457, 3456}
931:27	$0, 0, 0, 0, 0, 0, \frac{100}{4081}\sqrt{2}e^{12}, \frac{50}{4081}\sqrt{623}e^{14} + \frac{50}{4081}\sqrt{1230}e^{35},$ $\frac{650}{4081}\sqrt{6}e^{13} + \frac{100}{4081}\sqrt{110}e^{27}$	$(-\frac{16}{4081}, -\frac{65}{4081}, -\frac{130}{4081}, \frac{90}{371}, \frac{1104}{4081}, -\frac{1380}{4081}, -\frac{81}{4081}, \frac{974}{4081}, -\frac{146}{4081})$ $+ \frac{50}{4081}\sqrt{1747}e^3 \otimes e_6 + \frac{50}{4081}\sqrt{1967}e^5 \otimes e_9$	{12357, 135, 2389, 3789}
931:27	$0, 0, 0, 0, 0, 0, \frac{16}{2911}\sqrt{3278}e^{12}, \frac{16}{2911}\sqrt{4290}e^{14} + \frac{16}{2911}\sqrt{935}e^{35},$ $\frac{16}{2911}\sqrt{8855}e^{13} + \frac{176}{2911}\sqrt{29}e^{27}$	$(-\frac{596}{2911}, \frac{280}{2911}, \frac{560}{2911}, \frac{1372}{2911}, \frac{216}{2911}, -\frac{848}{2911}, -\frac{316}{2911}, \frac{776}{2911}, -\frac{36}{2911})$ $+ \frac{16}{2911}\sqrt{12639}e^3 \otimes e_6 + \frac{16}{2911}\sqrt{16071}e^4 \otimes e_9$	{123457, 1345, 2359, 3579}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{137}\sqrt{310}e^{12}, \frac{2}{137}\sqrt{155}e^{14} + \frac{2}{137}\sqrt{310}e^{35},$ $\frac{2}{137}\sqrt{2945}e^{13} + \frac{1}{137}\sqrt{10230}e^{27}$	$(-\frac{8}{137}, -\frac{5}{137}, -\frac{10}{137}, \frac{26}{137}, \frac{28}{137}, 1, -\frac{13}{137}, \frac{18}{137}, -\frac{18}{137})$ $+ \frac{1}{137}\sqrt{35030}e^6 \otimes e_9$	{12345678, 12367, 134568, 136, 2349, 23589, 3479, 35789}
931:27	$0, 0, 0, 0, 0, 0, \frac{152}{4393}\sqrt{19}e^{12}, \frac{38}{4393}\sqrt{719}e^{14} + \frac{114}{4393}\sqrt{102}e^{35},$ $\frac{38}{4393}\sqrt{1230}e^{13} + \frac{380}{4393}\sqrt{2}e^{27}$	$(\frac{608}{4393}, -\frac{209}{4393}, -\frac{418}{4393}, -\frac{114}{4393}, \frac{912}{4393}, -\frac{1140}{4393}, \frac{399}{4393}, \frac{494}{4393}, \frac{190}{4393})$ $+ \frac{38}{4393}\sqrt{1435}e^3 \otimes e_6 + \frac{38}{4393}\sqrt{1535}e^5 \otimes e_9 + \frac{76}{4393}\sqrt{282}e^1 \otimes e_4$	{1269, 1679}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{291}e^{12}, \frac{1}{77}\sqrt{582}e^{14} + \frac{2}{77}\sqrt{291}e^{35},$ $\frac{1}{77}\sqrt{6402}e^{13} + \frac{1}{77}\sqrt{1358}e^{27}$	$(-\frac{12}{77}, \frac{25}{77}, \frac{50}{77}, \frac{15}{77}, -\frac{47}{77}, \frac{12}{77}, \frac{13}{77}, \frac{3}{77}, \frac{38}{77})$ $+ \frac{1}{77}\sqrt{12610}e^3 \otimes e_5$	{125679, 12579, 1569, 159, 245, 2456, 4567, 457}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{5038}e^{12}, \frac{1}{479}\sqrt{25419}e^{14} + \frac{1}{479}\sqrt{15343}e^{35},$ $\frac{8}{479}\sqrt{1374}e^{13} + \frac{2}{479}\sqrt{5954}e^{27}$	$(\frac{88}{479}, \frac{44}{479}, \frac{88}{479}, -\frac{141}{479}, -\frac{141}{479}, \frac{36}{479}, \frac{132}{479}, -\frac{53}{479}, \frac{176}{479})$ $+ \frac{1}{479}\sqrt{106485}e^1 \otimes e_4 - \frac{1}{479}\sqrt{96409}e^3 \otimes e_5$	{123, 1236, 1367, 137, 234679, 23479, 3469, 349}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{5038}e^{12}, \frac{1}{479}\sqrt{25419}e^{14} + \frac{1}{479}\sqrt{15343}e^{35},$ $\frac{8}{479}\sqrt{1374}e^{13} + \frac{2}{479}\sqrt{5954}e^{27}$	$(\frac{88}{479}, \frac{44}{479}, \frac{88}{479}, -\frac{141}{479}, -\frac{141}{479}, \frac{36}{479}, \frac{132}{479}, -\frac{53}{479}, \frac{176}{479})$ $+ \frac{1}{479}\sqrt{106485}e^1 \otimes e_4 + \frac{1}{479}\sqrt{96409}e^3 \otimes e_5$	{123, 1236, 1367, 137, 234679, 23479, 3469, 349}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{201}\sqrt{1270}e^{12}, \frac{2}{201}\sqrt{9906}e^{14} + \frac{2}{201}\sqrt{1270}e^{35},$ $\frac{2}{201}\sqrt{1651}e^{13} + \frac{8}{201}\sqrt{127}e^{27}$	$(-\frac{20}{201}, \frac{29}{201}, \frac{58}{201}, \frac{41}{67}, \frac{15}{67}, -\frac{131}{201}, \frac{3}{67}, \frac{103}{201}, \frac{38}{201})$ $+ \frac{2}{201}\sqrt{21082}e^4 \otimes e_6$	{12457, 12678, 145, 168, 2489, 2569, 4789, 5679}
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{6}{157}\sqrt{415}e^{14} + \frac{2}{157}\sqrt{3901}e^{35},$ $\frac{2}{157}\sqrt{2407}e^{13} + \frac{2}{157}\sqrt{1577}e^{27}$	$(\frac{8}{157}, \frac{5}{157}, \frac{10}{157}, -\frac{17}{157}, -\frac{19}{157}, 1, \frac{13}{157}, -\frac{9}{157}, \frac{18}{157})$ $+ \frac{2}{157}\sqrt{10707}e^6 \otimes e_8$	{1234569, 12389, 1345679, 13789, 23478, 23567, 348, 356}
931:27	$0, 0, 0, 0, 0, 0, \frac{7}{4031}\sqrt{2406}e^{12}, \frac{21}{4031}\sqrt{86}e^{14} + \frac{224}{4031}\sqrt{3}e^{35},$ $\frac{14}{4031}\sqrt{530}e^{13} + \frac{21}{4031}\sqrt{370}e^{27}$	$(-\frac{14}{4031}, -\frac{28}{4031}, -\frac{56}{4031}, -\frac{63}{4031}, -\frac{21}{4031}, \frac{420}{4031}, -\frac{42}{4031}, -\frac{77}{4031}, -\frac{70}{4031})$ $+ \frac{154}{4031}\sqrt{10}e^2 \otimes e_8 + \frac{56}{4031}\sqrt{3}e^1 \otimes e_4 + \frac{7}{4031}\sqrt{2190}e^5 \otimes e_9$	{136789, 13789}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{311}\sqrt{30257}e^{12}, \frac{3}{311}\sqrt{1915}e^{14} + \frac{2}{311}\sqrt{23746}e^{35},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{8}{311}\sqrt{383}e^{27}$	$(\frac{79}{311}, -\frac{14}{311}, -\frac{28}{311}, \frac{80}{311}, \frac{187}{311}, -\frac{196}{311}, \frac{65}{311}, \frac{159}{311}, \frac{51}{311})$ $+ \frac{13}{311}\sqrt{1149}e^5 \otimes e_6$	{1234689, 12359, 1346789, 13579, 23457, 23678, 345, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:27	$0, 0, 0, 0, 0, 0, \frac{16}{371}\sqrt{69}e^{12}, \frac{24}{371}\sqrt{14}e^{14} + \frac{80}{371}\sqrt{3}e^{35},$ $\frac{16}{371}\sqrt{71}e^{13} + \frac{8}{371}\sqrt{318}e^{27}$	$(-\frac{11}{371}, \frac{38}{371}, \frac{76}{371}, -\frac{15}{371}, -\frac{102}{371}, \frac{12}{371}, \frac{27}{371}, -\frac{26}{371}, \frac{65}{371})$ $+ \frac{48}{371}\sqrt{2}e^3 \otimes e_6 + \frac{8}{371}\sqrt{574}e^2 \otimes e_8$	{123459, 13789, 2357, 348}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{407}\sqrt{12802}e^{12}, \frac{1}{407}\sqrt{47229}e^{14} + \frac{1}{407}\sqrt{6055}e^{35},$ $\frac{1}{407}\sqrt{5882}e^{13} + \frac{1}{407}\sqrt{26123}e^{27}$	$(-\frac{2}{11}, \frac{4}{407}, \frac{8}{407}, \frac{107}{407}, \frac{25}{407}, \frac{206}{407}, -\frac{70}{407}, \frac{3}{37}, -\frac{6}{37})$ $+ \frac{1}{407}\sqrt{56571}e^6 \otimes e_8 + \frac{1}{407}\sqrt{69546}e^4 \otimes e_9$	{1234567, 13456, 23569, 35679}
931:27	$0, 0, 0, 0, 0, 0, \frac{21}{1469}\sqrt{38}e^{12}, \frac{3}{1469}\sqrt{646}e^{14} + \frac{24}{1469}\sqrt{38}e^{35},$ $\frac{19}{1469}\sqrt{3914}e^{13} + \frac{19}{1469}\sqrt{66}e^{27}$	$(-\frac{2}{113}, -\frac{4}{1469}, -\frac{8}{1469}, \frac{3}{1469}, -\frac{15}{1469}, \frac{12}{113}, -\frac{30}{1469}, -\frac{23}{1469}, -\frac{34}{1469})$ $+ \frac{2}{1469}\sqrt{8626}e^2 \otimes e_8 + \frac{9}{1469}\sqrt{190}e^5 \otimes e_9$	{136789, 13789, 23567, 2357}
931:27	$0, 0, 0, 0, 0, 0, \frac{2}{341}\sqrt{1687}e^{12}, \frac{4}{341}\sqrt{1446}e^{14} + \frac{1}{341}\sqrt{19762}e^{35},$ $\frac{1}{341}\sqrt{15906}e^{13} + \frac{2}{341}\sqrt{241}e^{27}$	$(-\frac{28}{341}, \frac{51}{341}, \frac{102}{341}, -\frac{9}{341}, -\frac{139}{341}, \frac{204}{341}, \frac{23}{341}, -\frac{37}{341}, \frac{74}{341})$ $+ \frac{1}{341}\sqrt{66034}e^3 \otimes e_5 + \frac{1}{341}\sqrt{79530}e^6 \otimes e_8$	{12378, 138, 23489, 34789}
931:27	$0, 0, 0, 0, 0, 0, \frac{5}{163}\sqrt{70}e^{12}, \frac{5}{163}\sqrt{246}e^{14} + \frac{10}{163}\sqrt{19}e^{35},$ $\frac{5}{163}\sqrt{122}e^{13} + \frac{10}{163}\sqrt{62}e^{27}$	$(-\frac{35}{326}, -\frac{5}{326}, -\frac{5}{163}, \frac{155}{163}, \frac{65}{326}, -\frac{35}{163}, -\frac{20}{163}, \frac{60}{163}, -\frac{45}{326})$ $+ \frac{10}{163}\sqrt{177}e^4 \otimes e_9 + \frac{5}{163}\sqrt{438}e^5 \otimes e_6$	{123457, 1345, 2359, 3579}
931:27	$0, 0, 0, 0, 0, 0, \frac{1}{1277}\sqrt{129846}e^{12}, \frac{7}{1277}\sqrt{6834}e^{14} + \frac{68}{1277}\sqrt{201}e^{35},$ $\frac{20}{1277}\sqrt{1139}e^{13} + \frac{7}{1277}\sqrt{817802}e^{27}$	$(\frac{114}{1277}, -\frac{192}{1277}, -\frac{384}{1277}, \frac{371}{1277}, \frac{869}{1277}, \frac{224}{1277}, -\frac{78}{1277}, \frac{485}{1277}, -\frac{270}{1277})$ $+ \frac{9}{1277}\sqrt{29614}e^5 \otimes e_9$	{1269, 129, 1679, 179, 25678, 2578, 568, 58}
931:27	$0, 0, 0, 0, 0, 0, \frac{12}{43}\sqrt{2}e^{12}, \frac{12}{43}e^{14} + \frac{12}{43}\sqrt{2}e^{35},$ $\frac{8}{43}\sqrt{5}e^{13} + \frac{4}{43}\sqrt{21}e^{27}$	$(-\frac{1}{43}, \frac{4}{43}, \frac{8}{43}, -\frac{3}{43}, -\frac{12}{43}, \frac{6}{43}, \frac{3}{43}, -\frac{4}{43}, \frac{7}{43})$ $+ \frac{4}{43}\sqrt{37}e^2 \otimes e_8$	{1234569, 123459, 136789, 13789, 23567, 2357, 3468, 348}
931:27	$0, 0, 0, 0, 0, 0, \frac{25}{1413}\sqrt{42}e^{12}, \frac{5}{471}\sqrt{910}e^{14} + \frac{20}{1413}\sqrt{1015}e^{35},$ $\frac{20}{1413}\sqrt{455}e^{13} + \frac{5}{1413}\sqrt{18970}e^{27}$	$(-\frac{10}{471}, -\frac{80}{1413}, -\frac{160}{1413}, \frac{185}{471}, \frac{685}{1413}, -\frac{320}{1413}, -\frac{110}{1413}, \frac{175}{471}, -\frac{190}{1413})$ $+ \frac{20}{1413}\sqrt{2170}e^4 \otimes e_6 + \frac{5}{1413}\sqrt{51870}e^5 \otimes e_9$	{123457, 1345, 23489, 34789}
931:27	$0, 0, 0, 0, 0, 0, \frac{4}{3721}\sqrt{7966}e^{12}, \frac{4}{3721}\sqrt{162165}e^{14} + \frac{2}{3721}\sqrt{331727}e^{35},$ $\frac{4}{3721}\sqrt{133715}e^{13} + \frac{40}{3721}\sqrt{569}e^{27}$	$(-\frac{112}{3721}, -\frac{13}{3721}, -\frac{26}{3721}, \frac{1000}{3721}, \frac{914}{3721}, -\frac{1250}{3721}, \frac{125}{3721}, \frac{888}{3721}, -\frac{138}{3721})$ $+ \frac{2}{3721}\sqrt{899589}e^4 \otimes e_6 + \frac{6}{3721}\sqrt{114369}e^4 \otimes e_9$	{12347, 134, 2369, 3679}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{1301}\sqrt{580830}e^{12}, \frac{5}{1301}\sqrt{10190}e^{13} + \frac{28}{1301}\sqrt{1019}e^{45},$ $\frac{12}{1301}\sqrt{1019}e^{17} + \frac{1}{1301}\sqrt{654198}e^{23}$	$(-\frac{108}{1301}, \frac{695}{1301}, -\frac{216}{1301}, -\frac{162}{1301}, -\frac{162}{1301}, \frac{230}{1301}, \frac{587}{1301}, -\frac{324}{1301}, \frac{479}{1301})$ $+ \frac{3}{1301}\sqrt{242522}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 34689, 3489}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{3621}\sqrt{580830}e^{12}, \frac{10}{3621}\sqrt{10190}e^{13} + \frac{56}{3621}\sqrt{1019}e^{45},$ $\frac{8}{1207}\sqrt{1019}e^{17} + \frac{1}{3621}\sqrt{654198}e^{23}$	$(-\frac{72}{1207}, \frac{1390}{3621}, -\frac{144}{1207}, \frac{695}{3621}, -\frac{79}{213}, \frac{460}{3621}, \frac{1174}{3621}, -\frac{216}{1207}, \frac{958}{3621})$ $+ \frac{2038}{3621}e^4 \otimes e_5 + \frac{2}{1207}\sqrt{242522}e^2 \otimes e_8$	{34689, 3489, 35689, 3589}
931:28	$0, 0, 0, 0, 0, 0, \frac{4}{1311}\sqrt{2874}e^{12}, \frac{2}{3933}\sqrt{527379}e^{13} + \frac{2}{3933}\sqrt{803762}e^{45},$ $\frac{4}{3933}\sqrt{114481}e^{17} + \frac{8}{3933}\sqrt{25387}e^{23}$	$(\frac{36}{437}, -\frac{223}{1311}, \frac{72}{437}, \frac{35}{3933}, \frac{937}{3933}, -\frac{923}{3933}, -\frac{5}{57}, \frac{108}{437}, -\frac{7}{1311})$ $+ \frac{2}{3933}\sqrt{631322}e^4 \otimes e_6 + \frac{4}{3933}\sqrt{265845}e^5 \otimes e_9$	{1269, 1457, 24789, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{3901}e^{12}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{2}{157}\sqrt{1577}e^{45},$ $\frac{4}{157}\sqrt{83}e^{17} + \frac{6}{157}\sqrt{415}e^{23}$	$(\frac{6}{157}, \frac{65}{157}, \frac{12}{157}, \frac{9}{157}, \frac{9}{157}, -\frac{101}{157}, \frac{71}{157}, \frac{18}{157}, \frac{77}{157})$ $+ \frac{2}{157}\sqrt{10707}e^2 \otimes e_6$	{12459, 129, 14567, 167, 24789, 468}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{42}e^{12}, \frac{1}{12}\sqrt{21}e^{13} + \frac{1}{8}\sqrt{10}e^{45},$ $\frac{1}{12}\sqrt{15}e^{17} + \frac{1}{8}\sqrt{10}e^{23}$	$(\frac{1}{24}, 0, \frac{1}{12}, \frac{1}{3}, -\frac{5}{24}, -\frac{1}{4}, \frac{1}{24}, \frac{1}{8}, \frac{1}{12})$ $+ \frac{1}{12}\sqrt{39}e^4 \otimes e_9 + \frac{1}{24}\sqrt{102}e^2 \otimes e_6$	{129, 14567, 25789, 468}
931:28	$0, 0, 0, 0, 0, 0, \frac{13}{413}\sqrt{102}e^{12}, \frac{13}{413}\sqrt{22}e^{13} + \frac{13}{413}\sqrt{177}e^{45},$ $\frac{13}{413}\sqrt{71}e^{17} + \frac{195}{413}e^{23}$	$(-\frac{26}{413}, \frac{13}{59}, -\frac{52}{413}, -\frac{39}{413}, -\frac{39}{413}, \frac{208}{413}, \frac{65}{413}, -\frac{78}{413}, \frac{39}{413})$ $+ \frac{13}{413}\sqrt{317}e^6 \otimes e_9 + \frac{13}{413}\sqrt{410}e^2 \otimes e_8$	{12459, 129, 468}
931:28	$0, 0, 0, 0, 0, 0, \frac{26}{995}\sqrt{102}e^{12}, \frac{26}{995}\sqrt{22}e^{13} + \frac{26}{995}\sqrt{177}e^{45},$ $\frac{26}{995}\sqrt{71}e^{17} + \frac{78}{199}e^{23}$	$(-\frac{52}{995}, \frac{182}{995}, -\frac{104}{995}, \frac{91}{995}, -\frac{247}{995}, \frac{416}{995}, \frac{26}{199}, -\frac{156}{995}, \frac{78}{995})$ $+ \frac{26}{995}\sqrt{317}e^6 \otimes e_9 + \frac{26}{995}\sqrt{410}e^2 \otimes e_8 + \frac{338}{995}e^4 \otimes e_5$	{468, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{1693}\sqrt{109470}e^{12}, \frac{7}{1693}\sqrt{2670}e^{13} + \frac{2}{1693}\sqrt{86241}e^{45},$ $\frac{1}{1693}\sqrt{33909}e^{17} + \frac{1}{1693}\sqrt{263262}e^{23}$	$(-\frac{34}{1693}, \frac{165}{1693}, -\frac{68}{1693}, \frac{364}{1693}, -\frac{466}{1693}, \frac{180}{1693}, \frac{131}{1693}, -\frac{102}{1693}, \frac{97}{1693})$ $+ \frac{1}{1693}\sqrt{364722}e^2 \otimes e_8 + \frac{2}{1693}\sqrt{110805}e^4 \otimes e_9$	{1269, 129, 468, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:28	$0, 0, 0, 0, 0, 0, \frac{44}{3043}\sqrt{870}e^{12}, \frac{44}{3043}\sqrt{453}e^{13} + \frac{44}{3043}\sqrt{411}e^{45},$ $\frac{132}{3043}\sqrt{47}e^{17} + \frac{88}{3043}\sqrt{5}e^{23}$	$(-\frac{44}{3043}, \frac{836}{3043}, -\frac{88}{3043}, -\frac{66}{3043}, -\frac{66}{3043}, -\frac{1012}{3043}, \frac{792}{3043}, -\frac{132}{3043}, \frac{44}{179})$ $+\frac{132}{3043}\sqrt{149}e^2 \otimes e_8 + \frac{44}{3043}\sqrt{1357}e^1 \otimes e_6$	{123459, 1239, 3468}
931:28	$0, 0, 0, 0, 0, 0, \frac{92}{3457}\sqrt{10}e^{12}, \frac{92}{3457}\sqrt{210}e^{13} + \frac{368}{3457}\sqrt{6}e^{45},$ $\frac{46}{3457}\sqrt{519}e^{17} + \frac{92}{3457}\sqrt{258}e^{23}$	$(-\frac{46}{3457}, \frac{920}{3457}, -\frac{92}{3457}, -\frac{69}{3457}, -\frac{69}{3457}, -\frac{1150}{3457}, \frac{874}{3457}, -\frac{138}{3457}, \frac{828}{3457})$ $+\frac{46}{3457}\sqrt{1465}e^3 \otimes e_6 + \frac{46}{3457}\sqrt{1677}e^2 \otimes e_8$	{123, 12345, 3489}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{59}e^{12}, \frac{1}{159}\sqrt{2242}e^{13} + \frac{2}{477}\sqrt{15753}e^{45},$ $\frac{2}{477}\sqrt{34338}e^{17} + \frac{2}{477}\sqrt{8319}e^{23}$	$(\frac{1}{53}, -\frac{5}{53}, \frac{2}{53}, \frac{50}{159}, -\frac{41}{159}, \frac{68}{159}, -\frac{4}{53}, \frac{3}{53}, -\frac{3}{53})$ $+\frac{1}{159}\sqrt{10738}e^4 \otimes e_9 + \frac{1}{477}\sqrt{52746}e^6 \otimes e_8$	{1269, 14567, 25789, 48}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{137}\sqrt{310}e^{12}, \frac{2}{137}\sqrt{2945}e^{13} + \frac{1}{137}\sqrt{10230}e^{45},$ $\frac{2}{137}\sqrt{310}e^{17} + \frac{2}{137}\sqrt{155}e^{23}$	$(-\frac{6}{137}, \frac{30}{137}, -\frac{12}{137}, -\frac{9}{137}, -\frac{9}{137}, 1, \frac{24}{137}, -\frac{18}{137}, \frac{18}{137})$ $+\frac{1}{137}\sqrt{35030}e^6 \otimes e_8$	{12345679, 123679, 13456, 136, 23489, 3478}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{60}\sqrt{83}e^{12}, \frac{1}{120}\sqrt{2407}e^{13} + \frac{1}{120}\sqrt{1577}e^{45},$ $\frac{1}{120}\sqrt{3901}e^{17} + \frac{1}{40}\sqrt{415}e^{23}$	$(\frac{1}{40}, -\frac{7}{80}, \frac{1}{20}, \frac{23}{60}, -\frac{37}{120}, \frac{157}{240}, -\frac{1}{16}, \frac{3}{40}, -\frac{3}{80})$ $+\frac{1}{120}\sqrt{10707}e^6 \otimes e_9 + \frac{83}{120}e^4 \otimes e_5$	{24789, 25789, 468, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{16}{2215}\sqrt{714}e^{12}, \frac{16}{2215}\sqrt{1218}e^{13} + \frac{16}{2215}\sqrt{3885}e^{45},$ $\frac{16}{2215}\sqrt{2191}e^{17} + \frac{176}{2215}\sqrt{42}e^{23}$	$(\frac{209}{2215}, -\frac{378}{2215}, \frac{418}{2215}, \frac{936}{2215}, -\frac{309}{2215}, -\frac{478}{2215}, -\frac{169}{2215}, \frac{627}{2215}, \frac{8}{443})$ $+\frac{16}{2215}\sqrt{8715}e^4 \otimes e_9 + \frac{32}{2215}\sqrt{1267}e^3 \otimes e_6$	{123478, 13589, 2345, 379}
931:28	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{83}e^{12}, \frac{2}{157}\sqrt{2407}e^{13} + \frac{2}{157}\sqrt{1577}e^{45},$ $\frac{2}{157}\sqrt{3901}e^{17} + \frac{2}{157}\sqrt{415}e^{23}$	$(\frac{6}{157}, -\frac{21}{157}, \frac{12}{157}, \frac{9}{157}, \frac{9}{157}, 1, -\frac{15}{157}, \frac{18}{157}, -\frac{9}{157})$ $+\frac{2}{157}\sqrt{10707}e^6 \otimes e_9$	{12459, 129, 14567, 167, 24789, 468}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{26}e^{12}, \frac{2}{21}\sqrt{39}e^{13} + \frac{4}{21}\sqrt{26}e^{45},$ $\frac{2}{21}\sqrt{26}e^{17} + \frac{2}{21}\sqrt{13}e^{23}$	$(\frac{1}{7}, \frac{1}{21}, \frac{2}{7}, \frac{13}{21}, -\frac{4}{21}, -\frac{13}{21}, \frac{4}{21}, \frac{3}{7}, \frac{1}{3})$ $+\frac{2}{21}\sqrt{221}e^4 \otimes e_6$	{12459, 1269, 1457, 167, 24789, 256789, 48, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{4}{429}\sqrt{310}e^{12}, \frac{4}{429}\sqrt{2945}e^{13} + \frac{2}{429}\sqrt{10230}e^{45},$ $\frac{4}{429}\sqrt{310}e^{17} + \frac{4}{429}\sqrt{155}e^{23}$	$(-\frac{4}{143}, \frac{20}{143}, -\frac{8}{143}, \frac{137}{429}, -\frac{173}{429}, \frac{274}{429}, \frac{16}{429}, \frac{12}{143}, \frac{12}{143})$ $+\frac{2}{429}\sqrt{35030}e^6 \otimes e_8 + \frac{310}{429}e^4 \otimes e_5$	{23489, 23589, 3478, 3578}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{3897}\sqrt{467254}e^{12}, \frac{2}{3897}\sqrt{2283}e^{13} + \frac{20}{3897}\sqrt{9893}e^{45},$ $\frac{2}{3897}\sqrt{50226}e^{17} + \frac{2}{3897}\sqrt{492367}e^{23}$	$(-\frac{11}{433}, \frac{1225}{3897}, -\frac{22}{433}, \frac{557}{3897}, -\frac{854}{3897}, -\frac{965}{3897}, \frac{1126}{3897}, -\frac{33}{433}, \frac{1027}{3897})$ $+\frac{2}{3897}\sqrt{1073771}e^4 \otimes e_6 + \frac{4}{3897}\sqrt{388110}e^2 \otimes e_8$	{134789, 1356789, 23457, 2367}
931:28	$0, 0, 0, 0, 0, 0, \frac{44}{2401}\sqrt{105}e^{12}, \frac{110}{2401}\sqrt{6}e^{13} + \frac{22}{2401}\sqrt{690}e^{45},$ $\frac{330}{2401}\sqrt{2}e^{17} + \frac{440}{2401}e^{23}$	$(-\frac{11}{2401}, \frac{209}{2401}, -\frac{22}{2401}, -\frac{66}{2401}, \frac{429}{2401}, -\frac{253}{2401}, \frac{198}{2401}, -\frac{33}{2401}, \frac{187}{2401})$ $+\frac{198}{2401}\sqrt{11}e^5 \otimes e_9 + \frac{22}{2401}\sqrt{481}e^1 \otimes e_6 + \frac{66}{2401}\sqrt{89}e^2 \otimes e_8$	{129, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{4}{637}\sqrt{1786}e^{12}, \frac{8}{637}\sqrt{2491}e^{13} + \frac{4}{637}\sqrt{13301}e^{45},$ $\frac{4}{637}\sqrt{10199}e^{17} + \frac{12}{637}\sqrt{1034}e^{23}$	$(\frac{57}{637}, -\frac{136}{637}, \frac{114}{637}, \frac{354}{637}, -\frac{183}{637}, \frac{100}{637}, -\frac{79}{637}, \frac{171}{637}, -\frac{22}{637})$ $+\frac{4}{637}\sqrt{25239}e^4 \otimes e_9$	{1269, 129, 14567, 1457, 256789, 25789, 468, 48}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{489}e^{12}, \frac{1}{102}\sqrt{163}e^{13} + \frac{1}{102}\sqrt{2282}e^{45},$ $\frac{1}{51}\sqrt{489}e^{17} + \frac{1}{102}\sqrt{978}e^{23}$	$(\frac{3}{34}, \frac{23}{204}, \frac{3}{17}, \frac{95}{102}, -\frac{2}{3}, \frac{41}{204}, \frac{41}{204}, \frac{9}{34}, \frac{59}{204})$ $+\frac{163}{102}e^4 \otimes e_5$	{246789, 24789, 256789, 25789, 468, 48, 568, 58}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{120}\sqrt{3901}e^{12}, \frac{1}{120}\sqrt{2407}e^{13} + \frac{1}{120}\sqrt{1577}e^{45},$ $\frac{1}{60}\sqrt{83}e^{17} + \frac{1}{40}\sqrt{415}e^{23}$	$(\frac{1}{40}, \frac{13}{48}, \frac{1}{20}, \frac{23}{60}, -\frac{37}{120}, -\frac{101}{240}, \frac{71}{240}, \frac{3}{40}, \frac{77}{240})$ $+\frac{1}{120}\sqrt{10707}e^2 \otimes e_6 + \frac{83}{120}e^4 \otimes e_5$	{24789, 25789, 468, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{385}\sqrt{56794}e^{12}, \frac{12}{385}\sqrt{778}e^{13} + \frac{2}{385}\sqrt{5835}e^{45},$ $\frac{1}{385}\sqrt{56794}e^{17} + \frac{1}{385}\sqrt{100362}e^{23}$	$(\frac{8}{55}, -\frac{2}{385}, \frac{16}{55}, \frac{12}{55}, \frac{12}{55}, -\frac{277}{385}, \frac{54}{385}, \frac{24}{55}, \frac{2}{7})$ $+\frac{1}{385}\sqrt{257518}e^3 \otimes e_6$	{12456789, 126789, 14568, 168, 2469, 467}
931:28	$0, 0, 0, 0, 0, 0, \frac{14}{1159}\sqrt{1974}e^{12}, \frac{10}{1159}\sqrt{1974}e^{13} + \frac{2}{1159}\sqrt{1974}e^{45},$ $\frac{14}{1159}\sqrt{1974}e^{17} + \frac{2}{1159}\sqrt{66458}e^{23}$	$(\frac{92}{1159}, \frac{40}{1159}, \frac{184}{1159}, \frac{467}{1159}, -\frac{191}{1159}, -\frac{566}{1159}, \frac{132}{1159}, \frac{276}{1159}, \frac{224}{1159})$ $+\frac{2}{1159}\sqrt{229642}e^1 \otimes e_6 + \frac{658}{1159}e^4 \otimes e_5$	{12349, 12359, 1347, 1357}
931:28	$0, 0, 0, 0, 0, 0, \frac{1}{1109}\sqrt{152358}e^{12}, \frac{1}{1109}\sqrt{97782}e^{13} + \frac{1}{1109}\sqrt{206934}e^{45},$ $\frac{3}{1109}\sqrt{32594}e^{17} + \frac{1}{1109}\sqrt{58366}e^{23}$	$(\frac{92}{1109}, -\frac{146}{1109}, \frac{184}{1109}, \frac{417}{1109}, -\frac{141}{1109}, -\frac{287}{1109}, -\frac{54}{1109}, \frac{276}{1109}, \frac{38}{1109})$ $+\frac{1}{1109}\sqrt{317602}e^1 \otimes e_6 + \frac{6}{1109}\sqrt{11749}e^4 \otimes e_9$	{129, 1457, 256789, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:28	$0, 0, 0, 0, 0, 0, \frac{19}{8533}\sqrt{1758}e^{12}, \frac{38}{8533}\sqrt{670}e^{13} + \frac{19}{8533}\sqrt{6582}e^{45},$ $\frac{19}{8533}\sqrt{2294}e^{17} + \frac{57}{8533}\sqrt{446}e^{23}$	$(\frac{19}{8533}, \frac{418}{8533}, \frac{38}{8533}, -\frac{760}{8533}, \frac{817}{8533}, -\frac{1121}{8533}, \frac{19}{371}, \frac{57}{8533}, \frac{456}{8533})$ $+ \frac{19}{8533}\sqrt{5198}e^2 \otimes e_8 + \frac{19}{8533}\sqrt{6806}e^5 \otimes e_9 + \frac{38}{8533}\sqrt{913}e^4 \otimes e_6$	{1269, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{115}{5341}\sqrt{22}e^{12}, \frac{138}{5341}\sqrt{5}e^{13} + \frac{69}{5341}\sqrt{326}e^{45},$ $\frac{23}{5341}\sqrt{586}e^{17} + \frac{23}{5341}\sqrt{3242}e^{23}$	$(-\frac{23}{5341}, \frac{460}{5341}, -\frac{46}{5341}, -\frac{1012}{5341}, \frac{943}{5341}, -\frac{575}{5341}, \frac{437}{5341}, -\frac{69}{5341}, \frac{414}{5341})$ $+ \frac{23}{5341}\sqrt{3802}e^2 \otimes e_8 + \frac{23}{5341}\sqrt{3910}e^5 \otimes e_9 + \frac{46}{5341}\sqrt{515}e^3 \otimes e_6$	{1269, 568}
931:28	$0, 0, 0, 0, 0, 0, \frac{2}{1159}\sqrt{56794}e^{12}, \frac{24}{1159}\sqrt{778}e^{13} + \frac{4}{1159}\sqrt{5835}e^{45},$ $\frac{2}{1159}\sqrt{56794}e^{17} + \frac{2}{1159}\sqrt{100362}e^{23}$	$(\frac{112}{1159}, -\frac{4}{1159}, \frac{224}{1159}, \frac{557}{1159}, -\frac{221}{1159}, -\frac{554}{1159}, \frac{108}{1159}, \frac{336}{1159}, \frac{220}{1159})$ $+ \frac{2}{1159}\sqrt{257518}e^3 \otimes e_6 + \frac{1159}{1159}e^4 \otimes e_5$	{2469, 2569, 467, 567}
931:28	$0, 0, 0, 0, 0, 0, \frac{44}{3527}\sqrt{870}e^{12}, \frac{44}{3527}\sqrt{453}e^{13} + \frac{44}{3527}\sqrt{411}e^{45},$ $\frac{132}{3527}\sqrt{47}e^{17} + \frac{88}{3527}\sqrt{5}e^{23}$	$(-\frac{44}{3527}, \frac{836}{3527}, -\frac{88}{3527}, -\frac{550}{3527}, \frac{418}{3527}, -\frac{1012}{3527}, \frac{792}{3527}, -\frac{132}{3527}, \frac{748}{3527})$ $+ \frac{132}{3527}\sqrt{149}e^2 \otimes e_8 + \frac{44}{3527}\sqrt{1357}e^1 \otimes e_6 + \frac{968}{3527}e^5 \otimes e_4$	{3468, 3568}
931:28	$0, 0, 0, 0, 0, 0, \frac{7}{415}\sqrt{1974}e^{12}, \frac{1}{83}\sqrt{1974}e^{13} + \frac{1}{415}\sqrt{1974}e^{45},$ $\frac{7}{415}\sqrt{1974}e^{17} + \frac{1}{415}\sqrt{66458}e^{23}$	$(\frac{46}{415}, \frac{4}{83}, \frac{92}{415}, \frac{69}{415}, \frac{69}{415}, -\frac{283}{415}, \frac{66}{415}, \frac{138}{415}, \frac{112}{415})$ $+ \frac{1}{415}\sqrt{229642}e^1 \otimes e_6$	{12349, 1347, 23456789, 236789, 34568, 368}
931:28	$0, 0, 0, 0, 0, 0, \frac{46}{1993}\sqrt{10}e^{12}, \frac{46}{1993}\sqrt{210}e^{13} + \frac{184}{1993}\sqrt{6}e^{45},$ $\frac{23}{1993}\sqrt{519}e^{17} + \frac{46}{1993}\sqrt{258}e^{23}$	$(-\frac{23}{1993}, \frac{460}{1993}, -\frac{46}{1993}, -\frac{299}{1993}, \frac{230}{1993}, -\frac{575}{1993}, \frac{437}{1993}, -\frac{69}{1993}, \frac{414}{1993})$ $+ \frac{23}{1993}\sqrt{1465}e^3 \otimes e_6 + \frac{23}{1993}\sqrt{1677}e^2 \otimes e_8 + \frac{529}{1993}e^5 \otimes e_4$	{3489, 3589}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{33}e^{12}, \frac{2}{17}\sqrt{55}e^{14} + \frac{2}{17}\sqrt{33}e^{35},$ $\frac{1}{17}\sqrt{22}e^{17} + \frac{2}{17}\sqrt{55}e^{23}$	$(-\frac{1}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{7}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{3}{17}, \frac{6}{17}, -\frac{4}{17})$ $+ \frac{1}{17}\sqrt{330}e^4 \otimes e_9$	{126789, 12789, 145, 1456, 2569, 259, 4678, 478}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{15}e^{12}, \frac{8}{7}e^{14} + \frac{4}{21}\sqrt{15}e^{35},$ $\frac{4}{21}\sqrt{15}e^{17} + \frac{4}{7}\sqrt{2}e^{23}$	$(\frac{1}{21}, \frac{2}{21}, \frac{2}{21}, \frac{3}{7}, \frac{8}{21}, -\frac{5}{7}, \frac{1}{7}, \frac{10}{21}, \frac{4}{21})$ $+ \frac{4}{7}\sqrt{6}e^4 \otimes e_6$	{124579, 126789, 145, 168, 2489, 2569, 478, 567}
931:29	$0, 0, 0, 0, 0, 0, \frac{3}{515}\sqrt{310}e^{12}, \frac{2}{515}\sqrt{690}e^{14} + \frac{1}{515}\sqrt{2290}e^{35},$ $\frac{2}{103}\sqrt{34}e^{17} + \frac{4}{515}\sqrt{130}e^{23}$	$(\frac{2}{103}, -\frac{6}{103}, \frac{4}{103}, \frac{1}{103}, -\frac{1}{103}, \frac{4}{103}, -\frac{4}{103}, \frac{3}{103}, -\frac{2}{103})$ $+ \frac{1}{515}\sqrt{1830}e^5 \otimes e_9 + \frac{1}{515}\sqrt{210}e^6 \otimes e_8 + \frac{4}{515}\sqrt{195}e^1 \otimes e_4$	{1357, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{875}\sqrt{5421}e^{12}, \frac{2}{125}\sqrt{417}e^{14} + \frac{2}{875}\sqrt{41978}e^{35},$ $\frac{2}{875}\sqrt{25854}e^{17} + \frac{4}{875}\sqrt{4031}e^{23}$	$(\frac{8}{875}, -\frac{69}{875}, \frac{16}{875}, \frac{233}{875}, \frac{9}{35}, -\frac{262}{875}, -\frac{61}{875}, \frac{241}{875}, -\frac{53}{875})$ $+ \frac{4}{875}\sqrt{12093}e^3 \otimes e_6 + \frac{125}{125}\sqrt{139}e^5 \otimes e_9$	{1269, 145678, 24679, 568}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{757}\sqrt{1295}e^{12}, \frac{20}{757}\sqrt{322}e^{14} + \frac{4}{757}\sqrt{1295}e^{35},$ $\frac{20}{757}\sqrt{231}e^{17} + \frac{8}{757}\sqrt{2905}e^{23}$	$(\frac{39}{757}, \frac{156}{757}, \frac{78}{757}, -\frac{163}{757}, -\frac{202}{757}, \frac{67}{757}, \frac{195}{757}, -\frac{124}{757}, \frac{234}{757})$ $+ \frac{12}{757}\sqrt{1190}e^3 \otimes e_5 + \frac{32}{757}\sqrt{210}e^2 \otimes e_8$	{1245679, 124579, 2569, 259}
931:29	$0, 0, 0, 0, 0, 0, \frac{5}{2809}\sqrt{2674}e^{12}, \frac{25}{2809}\sqrt{106}e^{14} + \frac{10}{2809}\sqrt{598}e^{35},$ $\frac{60}{2809}\sqrt{23}e^{17} + \frac{15}{2809}\sqrt{214}e^{23}$	$(\frac{55}{2809}, -\frac{160}{2809}, \frac{110}{2809}, \frac{30}{2809}, -\frac{25}{2809}, \frac{85}{2809}, -\frac{105}{2809}, \frac{85}{2809}, -\frac{50}{2809})$ $+ \frac{5}{2809}\sqrt{1914}e^5 \otimes e_9 + \frac{5}{2809}\sqrt{258}e^3 \otimes e_6 + \frac{5}{2809}\sqrt{3018}e^1 \otimes e_4$	{1357, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{14}e^{12}, \frac{1}{22}\sqrt{182}e^{14} + \frac{1}{22}\sqrt{133}e^{35},$ $\frac{2}{11}\sqrt{14}e^{17} + \frac{1}{22}\sqrt{182}e^{23}$	$(\frac{3}{22}, -\frac{1}{44}, \frac{3}{11}, -\frac{2}{11}, -\frac{7}{22}, \frac{5}{44}, \frac{5}{44}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{22}\sqrt{273}e^1 \otimes e_4$	{123569, 12359, 13567, 1357, 2345679, 234579, 345, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{66}e^{12}, \frac{1}{25}\sqrt{231}e^{14} + \frac{1}{25}\sqrt{165}e^{35},$ $\frac{2}{25}\sqrt{66}e^{17} + \frac{1}{25}\sqrt{66}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, 0, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{1}{25}\sqrt{123}e^3 \otimes e_5 + \frac{1}{25}\sqrt{273}e^1 \otimes e_4 + \frac{1}{25}\sqrt{6}e^6 \otimes e_8$	{12359, 1357, 234579, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{66}e^{12}, \frac{1}{25}\sqrt{231}e^{14} + \frac{1}{25}\sqrt{165}e^{35},$ $\frac{2}{25}\sqrt{66}e^{17} + \frac{1}{25}\sqrt{66}e^{23}$	$(0, \frac{4}{25}, 0, -\frac{3}{25}, -\frac{3}{25}, 0, \frac{4}{25}, -\frac{3}{25}, \frac{4}{25})$ $- \frac{1}{25}\sqrt{123}e^3 \otimes e_5 + \frac{1}{25}\sqrt{273}e^1 \otimes e_4 + \frac{1}{25}\sqrt{6}e^6 \otimes e_8$	{12359, 1357, 234579, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{8}{359}\sqrt{322}e^{12}, \frac{1}{359}\sqrt{19642}e^{14} + \frac{4}{359}\sqrt{1610}e^{35},$ $\frac{4}{359}\sqrt{1610}e^{17} + \frac{3}{359}\sqrt{1610}e^{23}$	$(-\frac{42}{359}, \frac{67}{359}, -\frac{84}{359}, \frac{102}{359}, \frac{144}{359}, -\frac{94}{359}, \frac{25}{359}, \frac{60}{359}, -\frac{17}{359})$ $+ \frac{1}{359}\sqrt{58926}e^5 \otimes e_9 + \frac{3}{359}\sqrt{4830}e^2 \otimes e_6$	{129, 145678, 2479, 568}
931:29	$0, 0, 0, 0, 0, 0, \frac{11}{1105}\sqrt{717}e^{12}, \frac{22}{1105}\sqrt{265}e^{14} + \frac{22}{221}\sqrt{6}e^{35},$ $\frac{11}{1105}\sqrt{91}e^{17} + \frac{11}{1105}\sqrt{295}e^{23}$	$(\frac{11}{221}, -\frac{11}{65}, \frac{22}{221}, \frac{44}{1105}, -\frac{11}{1105}, \frac{44}{221}, -\frac{132}{1105}, \frac{99}{1105}, -\frac{77}{1105})$ $+ \frac{11}{1105}\sqrt{1059}e^4 \otimes e_9 + \frac{33}{1105}\sqrt{39}e^6 \otimes e_8 + \frac{33}{1105}\sqrt{79}e^3 \otimes e_5$	{1456, 2569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:29	$0, 0, 0, 0, 0, 0, \frac{60}{271}\sqrt{2}e^{12}, \frac{10}{271}\sqrt{58}e^{14} + \frac{15}{271}\sqrt{26}e^{35},$ $\frac{19}{271}\sqrt{30}e^{17} + \frac{10}{271}\sqrt{58}e^{23}$	$(\frac{10}{271}, \frac{20}{271}, \frac{20}{271}, -\frac{15}{271}, -\frac{25}{271}, -\frac{50}{271}, \frac{30}{271}, -\frac{5}{271}, \frac{40}{271})$ $+ \frac{15}{271}\sqrt{6}e^2 \otimes e_8 + \frac{20}{271}\sqrt{19}e^1 \otimes e_4 + \frac{5}{271}\sqrt{142}e^5 \otimes e_6$	{12359, 234579}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{1133}e^{12}, \frac{5}{91}\sqrt{206}e^{14} + \frac{1}{91}\sqrt{9682}e^{35},$ $\frac{2}{91}\sqrt{1133}e^{17} + \frac{5}{91}\sqrt{206}e^{23}$	$(-\frac{3}{91}, \frac{19}{91}, -\frac{6}{91}, \frac{41}{91}, \frac{44}{91}, -\frac{59}{91}, \frac{16}{91}, \frac{38}{91}, \frac{1}{7})$ $+ \frac{5}{91}\sqrt{618}e^5 \otimes e_6$	{1234689, 12359, 134678, 1357, 234579, 236789, 345, 368}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{373}\sqrt{3290}e^{12}, \frac{24}{373}\sqrt{70}e^{14} + \frac{16}{373}\sqrt{133}e^{35},$ $\frac{4}{373}\sqrt{3290}e^{17} + \frac{8}{373}\sqrt{679}e^{23}$	$(\frac{41}{373}, -\frac{1}{373}, \frac{82}{373}, -\frac{71}{373}, -\frac{112}{373}, \frac{82}{373}, \frac{40}{373}, -\frac{30}{373}, \frac{81}{373})$ $+ \frac{4}{373}\sqrt{4074}e^1 \otimes e_4 + \frac{56}{373}\sqrt{3}e^6 \otimes e_8$	{123569, 13567, 2345679, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{757}\sqrt{1295}e^{12}, \frac{8}{757}\sqrt{2905}e^{14} + \frac{4}{757}\sqrt{1295}e^{35},$ $\frac{20}{757}\sqrt{231}e^{17} + \frac{20}{757}\sqrt{322}e^{23}$	$(-\frac{63}{757}, \frac{258}{757}, -\frac{126}{757}, \frac{41}{757}, \frac{104}{757}, -\frac{239}{757}, \frac{195}{757}, -\frac{22}{757}, \frac{132}{757})$ $+ \frac{12}{757}\sqrt{1190}e^4 \otimes e_6 + \frac{32}{757}\sqrt{210}e^2 \otimes e_8$	{124579, 168, 2569, 478}
931:29	$0, 0, 0, 0, 0, 0, \frac{24}{653}\sqrt{77}e^{12}, \frac{40}{653}\sqrt{70}e^{14} + \frac{8}{653}\sqrt{1218}e^{35},$ $\frac{56}{653}\sqrt{7}e^{17} + \frac{40}{653}\sqrt{91}e^{23}$	$(-\frac{49}{653}, \frac{52}{653}, -\frac{98}{653}, \frac{178}{653}, \frac{227}{653}, -\frac{172}{653}, \frac{3}{653}, \frac{129}{653}, -\frac{46}{653})$ $+ \frac{120}{653}\sqrt{7}e^2 \otimes e_6 + \frac{40}{653}\sqrt{105}e^4 \otimes e_9$	{12789, 1456, 259, 4678}
931:29	$0, 0, 0, 0, 0, 0, \frac{8}{653}\sqrt{1218}e^{12}, \frac{40}{653}\sqrt{91}e^{14} + \frac{24}{653}\sqrt{77}e^{35},$ $\frac{36}{653}\sqrt{7}e^{17} + \frac{40}{653}\sqrt{70}e^{23}$	$(-\frac{49}{653}, -\frac{23}{653}, \frac{98}{653}, \frac{103}{653}, \frac{152}{653}, \frac{278}{653}, -\frac{72}{653}, \frac{54}{653}, -\frac{121}{653})$ $+ \frac{120}{653}\sqrt{7}e^6 \otimes e_8 + \frac{40}{653}\sqrt{105}e^4 \otimes e_9$	{12789, 1456, 2569, 478}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{17}e^{14} + \frac{1}{7}\sqrt{13}e^{35},$ $\frac{2}{7}\sqrt{5}e^{17} + \frac{2}{7}\sqrt{5}e^{23}$	$(0, \frac{1}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{21}e^1 \otimes e_4 - \frac{3}{7}e^3 \otimes e_5$	{123569, 12359, 13567, 1357, 2345679, 234579, 345, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{17}e^{14} + \frac{1}{7}\sqrt{13}e^{35},$ $\frac{2}{7}\sqrt{5}e^{17} + \frac{2}{7}\sqrt{5}e^{23}$	$(0, \frac{1}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{21}e^1 \otimes e_4 + \frac{3}{7}e^3 \otimes e_5$	{123569, 12359, 13567, 1357, 2345679, 234579, 345, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{1189}e^{12}, \frac{1}{134}\sqrt{3538}e^{14} + \frac{1}{134}\sqrt{2407}e^{35},$ $\frac{6}{67}\sqrt{29}e^{17} + \frac{1}{134}\sqrt{2958}e^{23}$	$(\frac{11}{134}, \frac{23}{268}, \frac{11}{67}, -\frac{9}{67}, -\frac{29}{134}, \frac{35}{268}, \frac{45}{268}, -\frac{7}{134}, \frac{1}{4})$ $+ \frac{1}{134}\sqrt{5307}e^1 \otimes e_4 + \frac{1}{67}\sqrt{435}e^2 \otimes e_6$	{12359, 13567, 234579, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{14}{337}\sqrt{142}e^{12}, \frac{70}{337}\sqrt{10}e^{14} + \frac{28}{337}\sqrt{23}e^{35},$ $\frac{28}{337}\sqrt{2}e^{17} + \frac{70}{337}\sqrt{10}e^{23}$	$(-\frac{21}{337}, -\frac{17}{337}, -\frac{42}{337}, \frac{137}{337}, \frac{158}{337}, -\frac{38}{337}, -\frac{38}{337}, \frac{116}{337}, -\frac{59}{337})$ $+ \frac{210}{337}\sqrt{2}e^4 \otimes e_9 + \frac{70}{337}\sqrt{6}e^5 \otimes e_6$	{123467, 13589, 23458, 3679}
931:29	$0, 0, 0, 0, 0, 0, \frac{8}{653}\sqrt{1218}e^{12}, \frac{40}{653}\sqrt{70}e^{14} + \frac{24}{653}\sqrt{77}e^{35},$ $\frac{56}{653}\sqrt{7}e^{17} + \frac{40}{653}\sqrt{91}e^{23}$	$(\frac{26}{653}, -\frac{98}{653}, \frac{52}{653}, \frac{178}{653}, \frac{152}{653}, -\frac{172}{653}, -\frac{72}{653}, \frac{204}{653}, -\frac{46}{653})$ $+ \frac{120}{653}\sqrt{7}e^3 \otimes e_6 + \frac{40}{653}\sqrt{105}e^4 \otimes e_9$	{126789, 1456, 2569, 4678}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{347}e^{12}, \frac{52}{677}\sqrt{2}e^{14} + \frac{4}{677}\sqrt{295}e^{35},$ $\frac{20}{677}\sqrt{17}e^{17} + \frac{8}{677}\sqrt{65}e^{23}$	$(\frac{9}{677}, -\frac{34}{677}, \frac{18}{677}, \frac{1}{677}, -\frac{8}{677}, \frac{53}{677}, -\frac{25}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^5 \otimes e_9 + \frac{4}{677}\sqrt{390}e^1 \otimes e_4$	{13567, 1357, 345, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{1}{359}\sqrt{6118}e^{12}, \frac{1}{359}\sqrt{19642}e^{14} + \frac{1}{359}\sqrt{6118}e^{35},$ $\frac{1}{359}\sqrt{966}e^{17} + \frac{2}{359}\sqrt{8533}e^{23}$	$(-\frac{42}{359}, \frac{99}{359}, -\frac{84}{359}, -\frac{20}{359}, \frac{22}{359}, \frac{176}{359}, \frac{57}{359}, -\frac{62}{359}, \frac{15}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^6 \otimes e_9$	{1249, 15678, 279, 4568}
931:29	$0, 0, 0, 0, 0, 0, \frac{12}{77}\sqrt{5}e^{12}, \frac{8}{77}\sqrt{10}e^{14} + \frac{24}{77}e^{35},$ $\frac{12}{77}\sqrt{5}e^{17} + \frac{8}{77}\sqrt{10}e^{23}$	$(\frac{5}{77}, \frac{1}{77}, \frac{10}{77}, -\frac{3}{77}, -\frac{8}{77}, -\frac{16}{77}, \frac{6}{77}, \frac{2}{77}, \frac{1}{7})$ $+ \frac{4}{11}e^1 \otimes e_4 + \frac{4}{77}\sqrt{22}e^5 \otimes e_6$	{12359, 1357, 234579, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{14}{229}\sqrt{15}e^{12}, \frac{2}{229}\sqrt{2289}e^{14} + \frac{14}{229}\sqrt{15}e^{35},$ $\frac{28}{229}\sqrt{3}e^{17} + \frac{2}{229}\sqrt{2289}e^{23}$	$(-\frac{28}{229}, \frac{39}{229}, -\frac{56}{229}, \frac{25}{229}, \frac{53}{229}, \frac{18}{229}, \frac{11}{229}, -\frac{3}{229}, -\frac{17}{229})$ $+ \frac{2}{229}\sqrt{1995}e^2 \otimes e_8 + \frac{4}{229}\sqrt{609}e^4 \otimes e_9$	{2569, 259, 4678, 478}
931:29	$0, 0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{14} + \frac{5}{44}\sqrt{14}e^{35},$ $\frac{1}{22}\sqrt{133}e^{17} + \frac{1}{44}\sqrt{182}e^{23}$	$(-\frac{1}{88}, -\frac{1}{44}, -\frac{1}{44}, \frac{23}{88}, \frac{3}{11}, -\frac{29}{88}, -\frac{3}{88}, \frac{1}{4}, -\frac{1}{22})$ $+ \frac{1}{44}\sqrt{546}e^1 \otimes e_6 + \frac{1}{44}\sqrt{546}e^5 \otimes e_9$	{123489, 1357, 236789, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{1}{205}\sqrt{7178}e^{12}, \frac{8}{205}\sqrt{97}e^{14} + \frac{1}{205}\sqrt{7178}e^{35},$ $\frac{2}{205}\sqrt{291}e^{17} + \frac{8}{205}\sqrt{18430}e^{23}$	$(\frac{27}{205}, -\frac{42}{205}, \frac{54}{205}, -\frac{16}{205}, -\frac{43}{205}, \frac{109}{205}, -\frac{3}{205}, \frac{11}{205}, \frac{12}{205})$ $+ \frac{1}{205}\sqrt{18042}e^6 \otimes e_9 + \frac{8}{205}\sqrt{291}e^3 \otimes e_5$	{124579, 1456, 259, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}\sqrt{2}e^{14} + \frac{4}{17}\sqrt{5}e^{35},$ $\frac{4}{17}\sqrt{5}e^{17} + \frac{8}{17}\sqrt{2}e^{23}$	$(\frac{3}{17}, -\frac{2}{17}, \frac{6}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{7}{17}, \frac{1}{17}, \frac{4}{17}, \frac{4}{17})$ $+\frac{8}{17}\sqrt{2}e^3 \otimes e_5 + \frac{8}{17}\sqrt{2}e^4 \otimes e_6$	{124579, 145, 2569, 567}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{793}\sqrt{18042}e^{12}, \frac{2}{793}\sqrt{24862}e^{14} + \frac{2}{793}\sqrt{18042}e^{35},$ $\frac{2}{793}\sqrt{8866}e^{17} + \frac{4}{793}\sqrt{7843}e^{23}$	$(\frac{67}{793}, -\frac{181}{793}, \frac{134}{793}, \frac{77}{793}, \frac{10}{793}, \frac{34}{793}, -\frac{114}{793}, \frac{144}{793}, -\frac{47}{793})$ $+\frac{4}{793}\sqrt{6882}e^4 \otimes e_9 + \frac{6}{793}\sqrt{2170}e^3 \otimes e_5$	{145, 1456, 2569, 259}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{205}\sqrt{291}e^{12}, \frac{8}{205}\sqrt{97}e^{14} + \frac{1}{205}\sqrt{7178}e^{35},$ $\frac{1}{205}\sqrt{7178}e^{17} + \frac{1}{205}\sqrt{18430}e^{23}$	$(\frac{27}{205}, \frac{4}{41}, \frac{54}{205}, -\frac{16}{205}, -\frac{43}{205}, -\frac{77}{205}, \frac{47}{205}, \frac{11}{205}, \frac{74}{205})$ $+\frac{1}{205}\sqrt{18042}e^2 \otimes e_6 + \frac{8}{205}\sqrt{291}e^3 \otimes e_5$	{124579, 1456, 259, 567}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{89}\sqrt{105}e^{12}, \frac{4}{89}\sqrt{70}e^{14} + \frac{4}{89}\sqrt{7}e^{35},$ $\frac{4}{89}\sqrt{105}e^{17} + \frac{8}{89}\sqrt{7}e^{23}$	$(\frac{19}{89}, -\frac{8}{89}, \frac{38}{89}, \frac{1}{89}, -\frac{18}{89}, -\frac{37}{89}, \frac{11}{89}, \frac{20}{89}, \frac{30}{89})$ $+\frac{16}{89}\sqrt{21}e^1 \otimes e_6 + \frac{4}{89}\sqrt{210}e^3 \otimes e_5$	{12459, 1457, 25679, 56}
931:29	$0, 0, 0, 0, 0, 0, \frac{19}{2053}\sqrt{1822}e^{12}, \frac{38}{2053}\sqrt{305}e^{14} + \frac{19}{2053}\sqrt{1090}e^{35},$ $\frac{38}{2053}\sqrt{462}e^{17} + \frac{95}{2053}\sqrt{38}e^{23}$	$(\frac{57}{2053}, \frac{114}{2053}, \frac{114}{2053}, -\frac{304}{2053}, -\frac{361}{2053}, \frac{589}{2053}, \frac{171}{2053}, -\frac{247}{2053}, \frac{228}{2053})$ $+\frac{114}{2053}\sqrt{61}e^1 \otimes e_4 + \frac{171}{2053}\sqrt{10}e^6 \otimes e_9 + \frac{38}{2053}\sqrt{183}e^2 \otimes e_8$	{12359, 234579}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{875}\sqrt{5421}e^{12}, \frac{2}{125}\sqrt{417}e^{14} + \frac{2}{875}\sqrt{21545}e^{35},$ $\frac{12}{875}\sqrt{417}e^{17} + \frac{2}{875}\sqrt{36557}e^{23}$	$(\frac{8}{875}, \frac{9}{35}, \frac{16}{875}, -\frac{61}{875}, -\frac{69}{875}, -\frac{262}{875}, \frac{233}{875}, -\frac{53}{875}, \frac{241}{875})$ $+\frac{4}{875}\sqrt{12093}e^3 \otimes e_6 + \frac{6}{125}\sqrt{139}e^2 \otimes e_8$	{12345, 13789, 2357, 3489}
931:29	$0, 0, 0, 0, 0, 0, \frac{6}{67}\sqrt{29}e^{12}, \frac{1}{134}\sqrt{3538}e^{14} + \frac{1}{134}\sqrt{2407}e^{35},$ $\frac{1}{67}\sqrt{1189}e^{17} + \frac{1}{134}\sqrt{2958}e^{23}$	$(\frac{11}{134}, -\frac{17}{268}, \frac{11}{67}, -\frac{9}{67}, -\frac{29}{134}, \frac{85}{268}, \frac{5}{268}, -\frac{7}{134}, \frac{27}{268})$ $+\frac{1}{134}\sqrt{5307}e^1 \otimes e_4 + \frac{1}{67}\sqrt{435}e^6 \otimes e_9$	{12359, 13567, 234579, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{31}\sqrt{19}e^{12}, \frac{2}{31}\sqrt{65}e^{14} + \frac{14}{31}e^{35},$ $\frac{2}{31}\sqrt{78}e^{17} + \frac{2}{31}\sqrt{74}e^{23}$	$(0, \frac{3}{31}, 0, -\frac{4}{31}, -\frac{4}{31}, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, \frac{3}{31})$ $+\frac{18}{31}e^1 \otimes e_4 - \frac{2}{31}\sqrt{33}e^3 \otimes e_5 + \frac{2}{31}\sqrt{6}e^6 \otimes e_9$	{12359, 13567, 234579, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{31}\sqrt{19}e^{12}, \frac{2}{31}\sqrt{65}e^{14} + \frac{14}{31}e^{35},$ $\frac{2}{31}\sqrt{78}e^{17} + \frac{2}{31}\sqrt{74}e^{23}$	$(0, \frac{3}{31}, 0, -\frac{4}{31}, -\frac{4}{31}, \frac{7}{31}, \frac{3}{31}, -\frac{4}{31}, \frac{3}{31})$ $+\frac{18}{31}e^1 \otimes e_4 + \frac{2}{31}\sqrt{33}e^3 \otimes e_5 + \frac{2}{31}\sqrt{6}e^6 \otimes e_9$	{12359, 13567, 234579, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{22}{3469}\sqrt{7}e^{12}, \frac{2}{3469}\sqrt{793}e^{14} + \frac{1}{3469}\sqrt{2710}e^{35},$ $\frac{1}{3469}\sqrt{3930}e^{17} + \frac{15}{3469}\sqrt{10}e^{23}$	$(\frac{13}{3469}, -\frac{28}{3469}, \frac{26}{3469}, \frac{12}{3469}, -\frac{1}{3469}, -\frac{29}{3469}, -\frac{15}{3469}, \frac{25}{3469}, -\frac{2}{3469})$ $+\frac{1}{3469}\sqrt{570}e^2 \otimes e_6 + \frac{2}{3469}\sqrt{915}e^1 \otimes e_4 + \frac{6}{3469}\sqrt{61}e^5 \otimes e_9$	{13567, 3456}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{42}e^{12}, \frac{2}{115}\sqrt{546}e^{14} + \frac{3}{115}\sqrt{70}e^{35},$ $\frac{1}{115}\sqrt{546}e^{17} + \frac{2}{115}\sqrt{546}e^{23}$	$(-\frac{14}{115}, \frac{4}{23}, -\frac{28}{115}, \frac{13}{115}, \frac{27}{115}, \frac{6}{115}, \frac{6}{115}, -\frac{1}{115}, -\frac{8}{115})$ $+\frac{1}{115}\sqrt{1974}e^2 \otimes e_8 + \frac{28}{115}\sqrt{3}e^4 \otimes e_9 + \frac{3}{115}\sqrt{14}e^5 \otimes e_6$	{259, 4678}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{15}e^{12}, \frac{4}{7}\sqrt{2}e^{14} + \frac{4}{21}\sqrt{15}e^{35},$ $\frac{4}{21}\sqrt{15}e^{17} + \frac{8}{7}e^{23}$	$(\frac{1}{3}, -\frac{4}{21}, \frac{2}{3}, -\frac{1}{7}, -\frac{10}{21}, \frac{1}{7}, \frac{1}{7}, \frac{4}{21}, \frac{10}{21})$ $+\frac{4}{7}\sqrt{6}e^3 \otimes e_5$	{1245679, 124579, 145, 1456, 2569, 259, 567, 57}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{373}\sqrt{3290}e^{12}, \frac{8}{373}\sqrt{679}e^{14} + \frac{16}{373}\sqrt{133}e^{35},$ $\frac{4}{373}\sqrt{3290}e^{17} + \frac{24}{373}\sqrt{70}e^{23}$	$(\frac{55}{373}, -\frac{15}{373}, \frac{110}{373}, -\frac{57}{373}, -\frac{112}{373}, -\frac{2}{373}, \frac{40}{373}, -\frac{2}{373}, \frac{95}{373})$ $+\frac{4}{373}\sqrt{4074}e^1 \otimes e_4 + \frac{56}{373}\sqrt{3}e^3 \otimes e_6$	{12359, 1357, 234579, 345}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{673}\sqrt{23690}e^{12}, \frac{2}{673}\sqrt{41818}e^{14} + \frac{2}{673}\sqrt{3090}e^{35},$ $\frac{2}{673}\sqrt{23690}e^{17} + \frac{412}{673}e^{23}$	$(\frac{91}{673}, -\frac{27}{673}, \frac{182}{673}, -\frac{139}{673}, -\frac{230}{673}, \frac{364}{673}, \frac{64}{673}, -\frac{48}{673}, \frac{155}{673})$ $+\frac{206}{673}\sqrt{6}e^3 \otimes e_5 + \frac{20}{673}\sqrt{618}e^6 \otimes e_8$	{1245679, 1456, 2569, 567}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{349}\sqrt{2233}e^{12}, \frac{4}{349}\sqrt{1430}e^{14} + \frac{20}{349}\sqrt{55}e^{35},$ $\frac{4}{349}\sqrt{1947}e^{17} + \frac{4}{349}\sqrt{1430}e^{23}$	$(\frac{21}{349}, \frac{42}{349}, \frac{42}{349}, -\frac{67}{349}, -\frac{88}{349}, \frac{37}{349}, \frac{63}{349}, -\frac{46}{349}, \frac{84}{349})$ $+\frac{12}{349}\sqrt{286}e^1 \otimes e_4 + \frac{4}{349}\sqrt{858}e^2 \otimes e_8$	{123569, 12359, 2345679, 234579}
931:29	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{34}e^{12}, \frac{6}{53}\sqrt{17}e^{14} + \frac{4}{53}\sqrt{17}e^{35},$ $\frac{4}{53}\sqrt{17}e^{17} + \frac{1}{53}\sqrt{374}e^{23}$	$(\frac{1}{53}, -\frac{5}{53}, \frac{2}{53}, \frac{14}{53}, \frac{13}{53}, -\frac{16}{53}, -\frac{4}{53}, \frac{15}{53}, -\frac{3}{53})$ $+\frac{1}{53}\sqrt{714}e^1 \otimes e_6 + \frac{3}{53}\sqrt{102}e^4 \otimes e_9$	{12347, 13589, 234568, 3679}
931:29	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{133}e^{12}, \frac{2}{47}\sqrt{247}e^{14} + \frac{2}{47}\sqrt{133}e^{35},$ $\frac{2}{47}\sqrt{114}e^{17} + \frac{2}{47}\sqrt{247}e^{23}$	$(-\frac{6}{47}, \frac{27}{47}, -\frac{12}{47}, -\frac{5}{47}, \frac{1}{47}, \frac{8}{47}, \frac{21}{47}, -\frac{11}{47}, \frac{15}{47})$ $+\frac{2}{47}\sqrt{741}e^2 \otimes e_8$	{12345, 123456, 136789, 13789, 23567, 2357, 34689, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:29	$0, 0, 0, 0, 0, 0, \frac{11}{565}\sqrt{82}e^{12}, \frac{66}{565}\sqrt{7}e^{14} + \frac{11}{565}\sqrt{82}e^{35},$ $\frac{22}{565}\sqrt{29}e^{17} + \frac{11}{565}\sqrt{470}e^{23}$	$(\frac{11}{565}, \frac{44}{565}, \frac{22}{565}, -\frac{88}{565}, -\frac{99}{565}, \frac{187}{565}, \frac{11}{113}, -\frac{77}{565}, \frac{66}{565})$ $+ \frac{11}{565}\sqrt{298}e^6 \otimes e_9 + \frac{22}{565}\sqrt{89}e^3 \otimes e_5 + \frac{44}{113}e^2 \otimes e_8$	{124579, 259}
931:29	$0, 0, 0, 0, 0, 0, \frac{4}{89}\sqrt{7}e^{12}, \frac{8}{89}\sqrt{7}e^{14} + \frac{4}{89}\sqrt{105}e^{35},$ $\frac{4}{89}\sqrt{105}e^{17} + \frac{4}{89}\sqrt{70}e^{23}$	$(-\frac{7}{89}, \frac{2}{89}, -\frac{14}{89}, \frac{37}{89}, \frac{44}{89}, -\frac{19}{89}, -\frac{5}{89}, \frac{30}{89}, -\frac{12}{89})$ $+ \frac{16}{89}\sqrt{21}e^5 \otimes e_9 + \frac{4}{89}\sqrt{210}e^4 \otimes e_6$	{123457, 13689, 2356, 34789}
931:29	$0, 0, 0, 0, 0, 0, \frac{8}{359}\sqrt{322}e^{12}, \frac{4}{359}\sqrt{322}e^{14} + \frac{1}{359}\sqrt{35098}e^{35},$ $\frac{1}{359}\sqrt{966}e^{17} + \frac{4}{359}\sqrt{322}e^{23}$	$(-\frac{42}{359}, \frac{144}{359}, -\frac{84}{359}, \frac{25}{359}, \frac{67}{359}, -\frac{94}{359}, \frac{102}{359}, -\frac{17}{359}, \frac{60}{359})$ $+ \frac{1}{359}\sqrt{58926}e^2 \otimes e_8 + \frac{3}{359}\sqrt{4830}e^5 \otimes e_6$	{12469, 1578, 2679, 458}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{180}\sqrt{4939}e^{12}, \frac{1}{360}\sqrt{124822}e^{34},$ $\frac{1}{360}\sqrt{36818}e^{17} + \frac{1}{360}\sqrt{25593}e^{35} + \frac{1}{360}\sqrt{25593}e^{46}$	$(\frac{1}{120}, \frac{11}{90}, \frac{499}{720}, -\frac{89}{720}, -\frac{133}{240}, \frac{21}{80}, \frac{47}{360}, \frac{41}{72}, \frac{5}{36})$ $+ \frac{7}{180}\sqrt{1347}e^3 \otimes e_5$	{1347, 13678, 14578, 1567, 34, 368, 458, 56}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{220}\sqrt{141}e^{12}, \frac{1}{220}\sqrt{15510}e^{34},$ $\frac{1}{220}\sqrt{15510}e^{17} + \frac{1}{220}\sqrt{6063}e^{35} + \frac{1}{220}\sqrt{6063}e^{46}$	$(\frac{59}{220}, -\frac{41}{110}, \frac{177}{440}, -\frac{19}{440}, -\frac{21}{88}, \frac{91}{440}, -\frac{23}{220}, \frac{79}{220}, \frac{9}{55})$ $+ \frac{7}{110}\sqrt{141}e^1 \otimes e_2 + \frac{7}{110}\sqrt{141}e^3 \otimes e_5$	{1347, 13678, 14578, 1567}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{180}\sqrt{4939}e^{12}, \frac{1}{360}\sqrt{36818}e^{34},$ $\frac{1}{360}\sqrt{124822}e^{17} + \frac{1}{360}\sqrt{25593}e^{35} + \frac{1}{360}\sqrt{25593}e^{46}$	$(\frac{199}{360}, -\frac{25}{36}, \frac{107}{720}, \frac{107}{720}, \frac{21}{80}, \frac{21}{80}, -\frac{17}{120}, \frac{107}{360}, \frac{37}{90})$ $+ \frac{7}{180}\sqrt{1347}e^1 \otimes e_2$	{1347, 13678, 1567, 2345679, 235789, 279}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{1089}\sqrt{90862}e^{12}, \frac{1}{1089}\sqrt{177742}e^{34},$ $\frac{1}{1089}\sqrt{137198}e^{17} + \frac{8}{1089}\sqrt{1086}e^{35} + \frac{8}{1089}\sqrt{1086}e^{46}$	$(\frac{41}{363}, -\frac{149}{1089}, \frac{139}{1089}, -\frac{197}{1089}, -\frac{14}{363}, \frac{98}{363}, -\frac{26}{1089}, -\frac{58}{1089}, \frac{97}{1089})$ $+ \frac{1}{1089}\sqrt{235662}e^1 \otimes e_8 + \frac{4}{1089}\sqrt{7602}e^3 \otimes e_5$	{1347, 1567, 368, 458}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{123}\sqrt{4510}e^{12}, \frac{1}{123}\sqrt{6270}e^{34},$ $\frac{1}{123}\sqrt{6270}e^{17} + \frac{4}{123}\sqrt{165}e^{35} + \frac{4}{123}\sqrt{165}e^{46}$	$(\frac{25}{123}, -\frac{23}{123}, -\frac{5}{41}, -\frac{5}{41}, \frac{14}{41}, \frac{14}{41}, \frac{2}{123}, -\frac{10}{41}, \frac{9}{41})$ $+ \frac{5}{123}\sqrt{462}e^1 \otimes e_8$	{1234569, 129, 1347, 1567, 235789, 368}
931:30	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{5}\sqrt{2}e^{34},$ $\frac{1}{5}\sqrt{2}e^{17} + \frac{1}{5}\sqrt{2}e^{35} + \frac{1}{5}\sqrt{2}e^{46}$	$(-\frac{1}{5}, \frac{2}{5}, \frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0)$ $+ \frac{1}{5}\sqrt{10}e^2 \otimes e_8 + \frac{2}{5}\sqrt{2}e^3 \otimes e_5$	{13678, 14578, 368, 458}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{205}e^{12}, \frac{1}{81}\sqrt{2665}e^{34},$ $\frac{4}{81}\sqrt{41}e^{17} + \frac{1}{162}\sqrt{2706}e^{35} + \frac{1}{162}\sqrt{2706}e^{46}$	$(-\frac{1}{27}, \frac{5}{81}, \frac{20}{81}, \frac{20}{81}, -\frac{7}{27}, -\frac{7}{27}, \frac{2}{81}, \frac{40}{81}, -\frac{1}{81})$ $+ \frac{7}{162}\sqrt{246}e^3 \otimes e_5 + \frac{7}{162}\sqrt{246}e^4 \otimes e_6$	{1347, 13678, 1567, 34, 368, 56}
931:30	$0, 0, 0, 0, 0, 0, \frac{10}{3881}\sqrt{7422}e^{12}, \frac{6}{3881}\sqrt{107619}e^{34},$ $\frac{4}{3881}\sqrt{215238}e^{17} + \frac{8}{3881}\sqrt{538095}e^{35} + \frac{4}{3881}\sqrt{150914}e^{46}$	$(\frac{1189}{3881}, -\frac{1285}{3881}, -\frac{768}{3881}, \frac{155}{3881}, \frac{1861}{3881}, \frac{938}{3881}, -\frac{96}{3881}, -\frac{613}{3881}, \frac{1093}{3881})$ $+ \frac{2}{3881}\sqrt{1960645}e^1 \otimes e_2 + \frac{2}{3881}\sqrt{2283502}e^5 \otimes e_8$	{13457, 1478, 23789, 2579}
931:30	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{1333}e^{12}, \frac{4}{31}\sqrt{43}e^{34},$ $\frac{1}{93}\sqrt{1806}e^{17} + \frac{1}{93}\sqrt{1290}e^{35} + \frac{1}{93}\sqrt{1290}e^{46}$	$(-\frac{25}{93}, \frac{2}{3}, -\frac{4}{31}, -\frac{4}{31}, \frac{8}{31}, \frac{8}{31}, \frac{37}{93}, -\frac{8}{31}, \frac{4}{31})$ $+ \frac{1}{31}\sqrt{1462}e^2 \otimes e_8$	{1234569, 129, 13678, 2345679, 279, 368}
931:30	$0, 0, 0, 0, 0, 0, \frac{4}{1563}\sqrt{5135}e^{12}, \frac{4}{1563}\sqrt{52535}e^{34},$ $\frac{2}{521}\sqrt{2765}e^{17} + \frac{2}{1563}\sqrt{80185}e^{35} + \frac{10}{1563}\sqrt{2686}e^{46}$	$(\frac{41}{1563}, \frac{104}{1563}, \frac{488}{1563}, -\frac{182}{521}, -\frac{302}{1563}, \frac{244}{521}, \frac{145}{1563}, -\frac{58}{1563}, \frac{62}{521})$ $+ \frac{2}{1563}\sqrt{261095}e^3 \otimes e_5 + \frac{2}{1563}\sqrt{294670}e^6 \otimes e_8$	{13467, 1378, 346, 38}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{1449}\sqrt{267070}e^{12}, \frac{2}{1449}\sqrt{323626}e^{34},$ $\frac{2}{1449}\sqrt{10997}e^{17} + \frac{1}{161}\sqrt{15710}e^{35} + \frac{8}{1449}\sqrt{9426}e^{46}$	$(\frac{52}{483}, \frac{170}{1449}, -\frac{562}{1449}, \frac{5}{207}, \frac{116}{161}, \frac{149}{483}, \frac{326}{1449}, -\frac{527}{1449}, \frac{482}{1449})$ $+ \frac{2}{1449}\sqrt{937887}e^5 \otimes e_8$	{12389, 1259, 13457, 1478, 23789, 2579, 345, 48}
931:30	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{205}e^{12}, \frac{1}{81}\sqrt{2665}e^{34},$ $\frac{4}{81}\sqrt{41}e^{17} + \frac{1}{162}\sqrt{2706}e^{35} + \frac{1}{162}\sqrt{2706}e^{46}$	$(-\frac{1}{27}, \frac{5}{81}, \frac{20}{81}, \frac{20}{81}, -\frac{7}{27}, -\frac{7}{27}, \frac{2}{81}, \frac{40}{81}, -\frac{1}{81})$ $+ \frac{7}{162}\sqrt{246}e^3 \otimes e_5 - \frac{7}{162}\sqrt{246}e^4 \otimes e_6$	{1347, 13678, 1567, 34, 368, 56}
931:30	$0, 0, 0, 0, 0, 0, \frac{61}{10125}\sqrt{546}e^{12}, \frac{427}{10125}\sqrt{114}e^{34},$ $\frac{61}{10125}\sqrt{2794}e^{17} + \frac{61}{10125}\sqrt{2558}e^{35} + \frac{122}{10125}\sqrt{233}e^{46}$	$(\frac{1708}{10125}, -\frac{671}{3375}, \frac{854}{3375}, -\frac{488}{2025}, -\frac{1159}{10125}, \frac{427}{1125}, -\frac{61}{2025}, \frac{122}{10125}, \frac{1403}{10125})$ $+ \frac{122}{10125}\sqrt{1745}e^6 \otimes e_8 + \frac{61}{10125}\sqrt{5118}e^1 \otimes e_2 + \frac{61}{10125}\sqrt{6514}e^3 \otimes e_5$	{13467, 1378}
931:31	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{20}\sqrt{30}e^{13} + \frac{1}{30}\sqrt{165}e^{45},$ $\frac{1}{60}\sqrt{345}e^{17} + \frac{1}{60}\sqrt{345}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{20}\sqrt{10}e^3 \otimes e_6 + \frac{1}{2}e^5 \otimes e_9 + \frac{1}{6}\sqrt{6}e^2 \otimes e_8$	{1269, 2379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:31	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{15}e^{12}, \frac{1}{10}\sqrt{30}e^{13} + \frac{1}{5}\sqrt{10}e^{45},$ $\frac{1}{10}\sqrt{30}e^{17} + \frac{1}{10}\sqrt{30}e^{36}$	$(0, 0, \frac{1}{4}, \frac{1}{2}, -\frac{1}{4}, -\frac{1}{4}, 0, \frac{1}{4}, 0)$ $+ \frac{1}{10}\sqrt{10}e^3 \otimes e_6 + \frac{1}{2}\sqrt{3}e^4 \otimes e_9$	{123589, 1269, 2379, 256789}
931:31	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{30}e^{13} + \frac{1}{10}\sqrt{10}e^{45},$ $\frac{1}{10}\sqrt{5}e^{17} + \frac{1}{10}\sqrt{5}e^{36}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, 0, 0, -\frac{1}{4}, \frac{1}{4}, 0, 0)$ $+ \frac{1}{2}\sqrt{2}e^2 \otimes e_8 + \frac{1}{5}\sqrt{10}e^3 \otimes e_6$	{123, 12345, 24567, 267}
931:31	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{339}e^{12}, \frac{1}{161}\sqrt{7797}e^{13} + \frac{2}{161}\sqrt{339}e^{45},$ $\frac{1}{161}\sqrt{6441}e^{17} + \frac{1}{161}\sqrt{3503}e^{36}$	$(\frac{95}{322}, -\frac{131}{322}, -\frac{5}{322}, \frac{79}{161}, -\frac{34}{161}, \frac{32}{161}, -\frac{18}{161}, \frac{45}{161}, \frac{59}{322})$ $+ \frac{113}{161}e^4 \otimes e_5 + \frac{4}{161}\sqrt{1243}e^1 \otimes e_2$	{13469, 13569, 246, 256}
931:31	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{6}{13}\sqrt{2}e^{13} + \frac{4}{13}e^{45}, \frac{2}{13}\sqrt{3}e^{17} + \frac{2}{13}\sqrt{3}e^{36}$	$(-\frac{1}{13}, \frac{2}{13}, \frac{5}{13}, \frac{7}{13}, -\frac{3}{13}, -\frac{5}{13}, \frac{1}{13}, \frac{4}{13}, 0)$ $+ \frac{10}{13}e^4 \otimes e_5 + \frac{2}{13}\sqrt{34}e^3 \otimes e_6$	{134, 135, 467, 567}
931:31	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{69}e^{12}, \frac{2}{119}\sqrt{483}e^{13} + \frac{12}{119}\sqrt{23}e^{45},$ $\frac{2}{119}\sqrt{897}e^{17} + \frac{46}{119}e^{36}$	$(\frac{1}{7}, -\frac{29}{119}, \frac{13}{119}, \frac{3}{7}, -\frac{3}{7}, -\frac{8}{17}, -\frac{12}{119}, \frac{30}{119}, \frac{5}{119})$ $+ \frac{12}{119}\sqrt{46}e^4 \otimes e_9 + \frac{8}{119}\sqrt{46}e^1 \otimes e_2$	{134678, 1457, 2379, 256789}
931:31	$0, 0, 0, 0, 0, 0, \frac{12}{325}\sqrt{55}e^{12}, \frac{8}{325}\sqrt{435}e^{13} + \frac{12}{325}\sqrt{55}e^{45},$ $\frac{24}{325}\sqrt{10}e^{17} + \frac{4}{325}\sqrt{615}e^{36}$	$(\frac{8}{65}, -\frac{16}{65}, \frac{12}{65}, -\frac{2}{65}, \frac{22}{65}, -\frac{12}{65}, -\frac{8}{65}, \frac{4}{65}, 0)$ $+ \frac{24}{65}e^5 \otimes e_4 + \frac{4}{325}\sqrt{1770}e^3 \otimes e_6 + \frac{4}{65}\sqrt{78}e^1 \otimes e_2$	{246, 256}
931:31	$0, 0, 0, 0, 0, 0, \frac{8}{175}\sqrt{15}e^{12}, \frac{2}{175}\sqrt{435}e^{13} + \frac{4}{175}\sqrt{255}e^{45},$ $\frac{18}{175}\sqrt{5}e^{17} + \frac{2}{175}\sqrt{885}e^{36}$	$(\frac{1}{35}, \frac{3}{175}, -\frac{11}{175}, \frac{43}{175}, -\frac{7}{25}, \frac{24}{175}, \frac{8}{175}, -\frac{6}{175}, \frac{13}{175})$ $+ \frac{16}{175}\sqrt{15}e^6 \otimes e_8 + \frac{4}{175}\sqrt{345}e^4 \otimes e_9$	{123589, 1269, 3456, 48}
931:31	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{339}e^{12}, \frac{2}{209}\sqrt{7797}e^{13} + \frac{4}{209}\sqrt{339}e^{45},$ $\frac{2}{209}\sqrt{6441}e^{17} + \frac{2}{209}\sqrt{3503}e^{36}$	$(\frac{5}{11}, -\frac{131}{209}, -\frac{5}{209}, \frac{45}{209}, \frac{45}{209}, \frac{64}{209}, -\frac{36}{209}, \frac{90}{209}, \frac{59}{209})$ $+ \frac{8}{209}\sqrt{1243}e^1 \otimes e_2$	{13469, 14589, 189, 23458, 238, 246}
931:31	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{209}e^{12}, \frac{2}{87}\sqrt{187}e^{13} + \frac{4}{261}\sqrt{858}e^{45},$ $\frac{4}{261}\sqrt{462}e^{17} + \frac{4}{261}\sqrt{462}e^{36}$	$(-\frac{10}{87}, \frac{7}{29}, \frac{3}{29}, \frac{23}{87}, -\frac{8}{29}, -\frac{8}{87}, \frac{11}{87}, -\frac{1}{87}, \frac{1}{87})$ $+ \frac{2}{87}\sqrt{517}e^4 \otimes e_9 + \frac{44}{261}\sqrt{6}e^2 \otimes e_8$	{1269, 134678, 2379, 48}
931:31	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{770}e^{12}, \frac{5}{38}\sqrt{14}e^{13} + \frac{1}{38}\sqrt{770}e^{45},$ $\frac{1}{38}\sqrt{35}e^{17} + \frac{1}{38}\sqrt{35}e^{36}$	$(-\frac{1}{4}, \frac{27}{38}, \frac{3}{76}, -\frac{2}{19}, -\frac{2}{19}, \frac{13}{76}, \frac{35}{76}, -\frac{4}{19}, \frac{4}{19})$ $+ \frac{1}{38}\sqrt{2170}e^2 \otimes e_8$	{123459, 1239, 1478, 245679, 2679, 3468}
931:31	$0, 0, 0, 0, 0, 0, \frac{12}{265}\sqrt{55}e^{12}, \frac{8}{265}\sqrt{435}e^{13} + \frac{12}{265}\sqrt{55}e^{45},$ $\frac{24}{265}\sqrt{10}e^{17} + \frac{4}{265}\sqrt{615}e^{36}$	$(\frac{8}{53}, -\frac{16}{53}, \frac{12}{53}, \frac{10}{53}, \frac{10}{53}, -\frac{12}{53}, -\frac{8}{53}, \frac{20}{53}, 0)$ $+ \frac{4}{265}\sqrt{1770}e^3 \otimes e_6 + \frac{4}{53}\sqrt{78}e^1 \otimes e_2$	{23458, 238, 246}
931:31	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{770}e^{12}, \frac{10}{111}\sqrt{14}e^{13} + \frac{2}{111}\sqrt{770}e^{45},$ $\frac{2}{111}\sqrt{35}e^{17} + \frac{2}{111}\sqrt{35}e^{36}$	$(-\frac{19}{111}, \frac{18}{37}, \frac{1}{37}, \frac{9}{37}, -\frac{43}{111}, \frac{13}{111}, \frac{35}{111}, -\frac{16}{111}, \frac{16}{111})$ $+ \frac{2}{111}\sqrt{2170}e^2 \otimes e_8 + \frac{70}{111}e^4 \otimes e_5$	{1478, 1578, 3468, 3568}
931:31	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{43}e^{12}, \frac{1}{27}\sqrt{43}e^{13} + \frac{2}{27}\sqrt{43}e^{45},$ $\frac{1}{27}\sqrt{129}e^{17} + \frac{1}{27}\sqrt{129}e^{36}$	$(\frac{5}{54}, \frac{7}{54}, \frac{1}{6}, \frac{25}{27}, -\frac{2}{3}, \frac{4}{27}, \frac{7}{9}, \frac{17}{27}, \frac{17}{54})$ $+ \frac{43}{27}e^4 \otimes e_5$	{123489, 123589, 134678, 135678, 246789, 256789, 48, 58}
931:31	$0, 0, 0, 0, 0, 0, \frac{3}{26}e^{12}, \frac{3}{26}\sqrt{2}e^{13} + \frac{3}{13}\sqrt{2}e^{45}, \frac{3}{13}\sqrt{3}e^{17} + \frac{3}{13}e^{36}$	$(\frac{3}{26}, -\frac{3}{13}, \frac{9}{52}, -\frac{3}{52}, \frac{9}{26}, -\frac{9}{52}, -\frac{3}{26}, \frac{15}{52}, 0)$ $+ \frac{3}{26}\sqrt{10}e^3 \otimes e_6 + \frac{3}{26}\sqrt{21}e^5 \otimes e_9 + \frac{6}{13}e^1 \otimes e_2$	{234789, 2679}
931:31	$0, 0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{3}{4}\sqrt{2}e^{13} + \frac{1}{2}e^{45}, \frac{1}{4}\sqrt{3}e^{17} + \frac{1}{4}\sqrt{3}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{5}{8}, \frac{1}{4}, \frac{1}{4}, -\frac{5}{8}, \frac{1}{8}, \frac{1}{2}, 0)$ $+ \frac{1}{4}\sqrt{34}e^3 \otimes e_6$	{134, 14568, 168, 34578, 378, 467}
931:31	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{22}e^{12}, \frac{2}{43}\sqrt{187}e^{13} + \frac{4}{43}\sqrt{55}e^{45},$ $\frac{2}{43}\sqrt{165}e^{17} + \frac{2}{43}\sqrt{165}e^{36}$	$(\frac{1}{43}, -\frac{1}{43}, \frac{9}{43}, \frac{23}{43}, -\frac{13}{43}, -\frac{8}{43}, 0, \frac{10}{43}, \frac{1}{43})$ $+ \frac{12}{43}\sqrt{11}e^4 \otimes e_9$	{123589, 1269, 134678, 1457, 2379, 256789, 3456, 48}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{1683}\sqrt{72037}e^{12}, \frac{1}{1683}\sqrt{319718}e^{14} + \frac{1}{561}\sqrt{33866}e^{35},$ $\frac{1}{1683}\sqrt{456330}e^{17} + \frac{1}{1683}\sqrt{83230}e^{36}$	$(\frac{19}{153}, -\frac{115}{561}, -\frac{229}{1683}, -\frac{26}{561}, \frac{40}{187}, \frac{302}{1683}, -\frac{8}{99}, \frac{131}{1683}, \frac{73}{1683})$ $+ \frac{2}{1683}\sqrt{105329}e^5 \otimes e_9 + \frac{4}{561}\sqrt{3157}e^1 \otimes e_4$	{129, 1357, 2479, 345}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:32	$0, 0, 0, 0, 0, 0, \frac{42}{3485}\sqrt{287e^{12}}, \frac{42}{3485}\sqrt{1110e^{14}} + \frac{168}{3485}\sqrt{10e^{35}},$ $\frac{42}{3485}\sqrt{374e^{17}} + \frac{42}{3485}\sqrt{1070e^{36}}$	$(\frac{609}{3485}, -\frac{273}{3485}, \frac{63}{697}, -\frac{21}{85}, -\frac{567}{3485}, \frac{126}{697}, \frac{336}{3485}, -\frac{252}{3485}, \frac{189}{697})$ $+ \frac{168}{3485}\sqrt{61e^3} \otimes e_5 + \frac{42}{3485}\sqrt{1451e^6} \otimes e_8 + \frac{42}{3485}\sqrt{809e^1} \otimes e_2$	{1346, 2569}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{1497}\sqrt{108130e^{12}}, \frac{1}{1497}\sqrt{646814e^{14}} + \frac{4}{1497}\sqrt{18677e^{35}},$ $\frac{4}{1497}\sqrt{9830e^{17}} + \frac{1}{1497}\sqrt{572106e^{36}}$	$(\frac{506}{1497}, -\frac{159}{499}, \frac{662}{1497}, -\frac{55}{499}, -\frac{107}{499}, -\frac{127}{499}, \frac{29}{1497}, \frac{341}{1497}, \frac{535}{1497})$ $+ \frac{4}{1497}\sqrt{85521e^1} \otimes e_2 + \frac{7}{1497}\sqrt{25558e^3} \otimes e_5$	{1349, 14569, 236, 25}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{177e^{12}}, \frac{1}{71}\sqrt{3422e^{14}} + \frac{1}{71}\sqrt{590e^{35}},$ $\frac{1}{71}\sqrt{1770e^{17}} + \frac{3}{71}\sqrt{354e^{36}}$	$(\frac{3}{71}, \frac{17}{71}, -\frac{21}{71}, -\frac{18}{71}, \frac{6}{71}, \frac{44}{71}, \frac{20}{71}, -\frac{15}{71}, \frac{23}{71})$ $+ \frac{2}{71}\sqrt{1770e^6} \otimes e_8$	{123789, 124679, 13456, 158, 23489, 269, 3567, 4578}
931:32	$0, 0, 0, 0, 0, 0, \frac{26}{269}\sqrt{3e^{12}}, \frac{13}{269}\sqrt{102e^{14}} + \frac{13}{269}\sqrt{14e^{35}},$ $\frac{39}{269}\sqrt{6e^{17}} + \frac{91}{269}\sqrt{2e^{36}}$	$(-\frac{39}{269}, \frac{39}{269}, \frac{65}{269}, \frac{130}{269}, \frac{26}{269}, -\frac{104}{269}, 0, \frac{91}{269}, -\frac{39}{269})$ $+ \frac{26}{269}\sqrt{74e^4} \otimes e_9 + \frac{52}{269}\sqrt{11e^3} \otimes e_6$	{1389, 15689, 3579, 679}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{189}\sqrt{697e^{12}}, \frac{2}{189}\sqrt{2870e^{14}} + \frac{2}{189}\sqrt{82e^{35}},$ $\frac{2}{189}\sqrt{246e^{17}} + \frac{4}{189}\sqrt{410e^{36}}$	$(\frac{5}{21}, -\frac{37}{189}, -\frac{23}{189}, -\frac{17}{63}, \frac{17}{189}, \frac{76}{189}, \frac{8}{189}, -\frac{2}{63}, \frac{53}{189})$ $+ \frac{2}{189}\sqrt{2993e^1} \otimes e_2 + \frac{2}{189}\sqrt{3977e^6} \otimes e_8$	{13456, 158, 23489, 269}
931:32	$0, 0, 0, 0, 0, 0, \frac{9}{1291}\sqrt{1498e^{12}}, \frac{9}{1291}\sqrt{5110e^{14}} + \frac{9}{1291}\sqrt{462e^{35}},$ $\frac{252}{1291}e^{17} + \frac{18}{1291}\sqrt{777e^{36}}$	$(-\frac{378}{1291}, \frac{579}{1291}, -\frac{105}{1291}, \frac{390}{1291}, \frac{117}{1291}, -\frac{72}{1291}, \frac{201}{1291}, \frac{12}{1291}, -\frac{177}{1291})$ $+ \frac{36}{1291}\sqrt{469e^2} \otimes e_8 + \frac{99}{1291}\sqrt{70e^4} \otimes e_9$	{23579, 2679, 3468, 458}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{921}\sqrt{66982e^{12}}, \frac{1}{921}\sqrt{143354e^{14}} + \frac{1}{921}\sqrt{247270e^{35}},$ $\frac{1}{921}\sqrt{173402e^{17}} + \frac{1}{921}\sqrt{21910e^{36}}$	$(-\frac{21}{307}, -\frac{5}{307}, \frac{86}{921}, \frac{107}{307}, \frac{172}{921}, -\frac{227}{921}, -\frac{26}{307}, \frac{86}{307}, -\frac{47}{307})$ $+ \frac{2}{921}\sqrt{55401e^3} \otimes e_6 + \frac{2}{921}\sqrt{11894e^5} \otimes e_9$	{1357, 145678, 345, 568}
931:32	$0, 0, 0, 0, 0, 0, \frac{3649}{3649}\sqrt{582902e^{12}}, \frac{6}{3649}\sqrt{7690e^{14}} + \frac{8}{3649}\sqrt{66903e^{35}},$ $\frac{8}{3649}\sqrt{14611e^{17}} + \frac{2}{3649}\sqrt{336053e^{36}}$	$(-\frac{587}{3649}, \frac{1426}{3649}, \frac{895}{3649}, \frac{475}{3649}, -\frac{1007}{3649}, -\frac{643}{3649}, \frac{839}{3649}, -\frac{112}{3649}, \frac{252}{3649})$ $+ \frac{2}{3649}\sqrt{1126585e^3} \otimes e_6 + \frac{2}{3649}\sqrt{1383431e^2} \otimes e_8$	{13478, 145678, 38, 568}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{339}\sqrt{238e^{12}}, \frac{5}{339}\sqrt{238e^{14}} + \frac{1}{339}\sqrt{18802e^{35}},$ $\frac{1}{339}\sqrt{6902e^{17}} + \frac{7}{339}\sqrt{374e^{36}}$	$(-\frac{7}{113}, \frac{11}{113}, -\frac{119}{339}, \frac{4}{113}, \frac{110}{339}, \frac{110}{339}, \frac{4}{113}, -\frac{3}{113}, -\frac{3}{113})$ $- \frac{10}{339}\sqrt{357e^6} \otimes e_8 + \frac{4}{339}\sqrt{2261e^5} \otimes e_9$	{12389, 12469, 134567, 1578, 234789, 2679, 356, 458}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{339}\sqrt{238e^{12}}, \frac{5}{339}\sqrt{238e^{14}} + \frac{1}{339}\sqrt{18802e^{35}},$ $\frac{1}{339}\sqrt{6902e^{17}} + \frac{7}{339}\sqrt{374e^{36}}$	$(-\frac{7}{113}, \frac{11}{113}, -\frac{119}{339}, \frac{4}{113}, \frac{110}{339}, \frac{110}{339}, \frac{4}{113}, -\frac{3}{113}, -\frac{3}{113})$ $+ \frac{10}{339}\sqrt{357e^6} \otimes e_8 + \frac{4}{339}\sqrt{2261e^5} \otimes e_9$	{12389, 12469, 134567, 1578, 234789, 2679, 356, 458}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{217}\sqrt{470e^{12}}, \frac{2}{217}\sqrt{410e^{14}} + \frac{4}{217}\sqrt{35e^{35}},$ $\frac{4}{217}\sqrt{35e^{17}} + \frac{2}{217}\sqrt{455e^{36}}$	$(-\frac{19}{217}, \frac{5}{31}, -\frac{1}{217}, \frac{1}{31}, -\frac{11}{217}, -\frac{2}{217}, \frac{16}{217}, -\frac{12}{217}, -\frac{3}{217})$ $+ \frac{1}{217}\sqrt{1010e^3} \otimes e_5 + \frac{5}{217}\sqrt{62e^4} \otimes e_9 + \frac{5}{217}\sqrt{62e^6} \otimes e_8$	{1346, 2569}
931:32	$0, 0, 0, 0, 0, 0, \frac{4}{1767}\sqrt{10795e^{12}}, \frac{1}{1767}\sqrt{707390e^{14}} + \frac{1}{1767}\sqrt{486410e^{35}},$ $\frac{1}{1767}\sqrt{92710e^{17}} + \frac{1}{1767}\sqrt{941070e^{36}}$	$(-\frac{199}{1767}, \frac{5}{31}, \frac{479}{1767}, \frac{174}{589}, -\frac{52}{589}, -\frac{592}{1767}, \frac{86}{1767}, \frac{17}{93}, -\frac{113}{1767})$ $+ \frac{10}{1767}\sqrt{11811e^4} \otimes e_9 + \frac{4}{1767}\sqrt{54610e^3} \otimes e_5$	{1346, 145, 239, 2569}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{623}\sqrt{23430e^{12}}, \frac{1}{623}\sqrt{7810e^{14}} + \frac{3}{623}\sqrt{7810e^{35}},$ $\frac{11}{623}\sqrt{710e^{17}} + \frac{1}{623}\sqrt{23430e^{36}}$	$(\frac{143}{623}, -\frac{51}{623}, -\frac{51}{623}, -\frac{212}{623}, -\frac{18}{623}, \frac{286}{623}, \frac{92}{623}, -\frac{69}{623}, \frac{235}{623})$ $+ \frac{2}{623}\sqrt{42245e^6} \otimes e_8 + \frac{4}{623}\sqrt{13490e^1} \otimes e_4$	{1269, 13567, 24679, 3456}
931:32	$0, 0, 0, 0, 0, 0, \frac{35}{7993}\sqrt{2706e^{12}}, \frac{35}{7993}\sqrt{2122e^{14}} + \frac{35}{7993}\sqrt{6342e^{35}},$ $\frac{35}{7993}\sqrt{3314e^{17}} + \frac{105}{7993}\sqrt{102e^{36}}$	$(-\frac{1295}{7993}, \frac{1645}{7993}, \frac{140}{7993}, \frac{1715}{7993}, \frac{280}{7993}, -\frac{1085}{7993}, \frac{350}{7993}, \frac{420}{7993}, -\frac{945}{7993})$ $+ \frac{140}{7993}\sqrt{293e^2} \otimes e_8 + \frac{35}{7993}\sqrt{5594e^5} \otimes e_9 + \frac{70}{7993}\sqrt{1099e^3} \otimes e_6$	{145678, 568}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{1383}\sqrt{95105e^{12}}, \frac{2}{1383}\sqrt{75257e^{14}} + \frac{1}{1383}\sqrt{272910e^{35}},$ $\frac{1}{1383}\sqrt{114126e^{17}} + \frac{1}{1383}\sqrt{322530e^{36}}$	$(-\frac{173}{1383}, \frac{214}{461}, \frac{107}{461}, -\frac{4}{461}, -\frac{506}{1383}, -\frac{25}{1383}, \frac{469}{1383}, -\frac{185}{1383}, \frac{296}{1383})$ $+ \frac{1}{1383}\sqrt{845194e^3} \otimes e_5 + \frac{2}{461}\sqrt{32253e^2} \otimes e_8$	{13789, 156789, 3489, 45689}
931:32	$0, 0, 0, 0, 0, 0, \frac{77}{1545}\sqrt{58e^{12}}, \frac{14}{1545}\sqrt{737e^{14}} + \frac{28}{1545}\sqrt{770e^{35}},$ $\frac{14}{1545}\sqrt{1903e^{17}} + \frac{7}{1545}\sqrt{22e^{36}}$	$(-\frac{70}{309}, \frac{168}{515}, -\frac{126}{515}, \frac{21}{103}, \frac{343}{1545}, \frac{182}{1545}, \frac{154}{1545}, -\frac{7}{309}, -\frac{196}{1545})$ $+ \frac{14}{1545}\sqrt{3531e^2} \otimes e_8 + \frac{266}{1545}\sqrt{11e^5} \otimes e_9$	{129, 145678, 2479, 568}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{173}\sqrt{7370e^{12}}, \frac{8}{519}\sqrt{1005e^{14}} + \frac{1}{519}\sqrt{67134e^{35}},$ $\frac{20}{519}\sqrt{201e^{17}} + \frac{1}{173}\sqrt{4690e^{36}}$	$(\frac{130}{519}, -\frac{113}{519}, \frac{58}{173}, -\frac{71}{519}, -\frac{115}{519}, -\frac{9}{173}, \frac{17}{519}, \frac{59}{173}, \frac{49}{173})$ $+ \frac{1}{519}\sqrt{113766e^1} \otimes e_4 + \frac{4}{519}\sqrt{4623e^3} \otimes e_6$	{1357, 167, 345, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{177e^{12}}, \frac{1}{71}\sqrt{3422e^{14}} + \frac{1}{71}\sqrt{1770e^{35}},$ $\frac{1}{71}\sqrt{590e^{17}} + \frac{3}{71}\sqrt{354e^{36}}$	$(-\frac{17}{71}, \frac{17}{71}, -\frac{1}{71}, \frac{42}{71}, \frac{26}{71}, -\frac{16}{71}, 0, \frac{25}{71}, -\frac{17}{71})$ $+ \frac{2}{71}\sqrt{1770e^4} \otimes e_9$	{123467, 12457, 13589, 1689, 234568, 248, 379, 5679}
931:32	$0, 0, 0, 0, 0, 0, \frac{22}{3933}\sqrt{463e^{12}}, \frac{22}{3933}\sqrt{1622e^{14}} + \frac{88}{3933}\sqrt{26e^{35}},$ $\frac{22}{1311}\sqrt{6e^{17}} + \frac{22}{3933}\sqrt{1166e^{36}}$	$(\frac{11}{1311}, -\frac{11}{207}, -\frac{517}{3933}, \frac{11}{437}, \frac{649}{3933}, \frac{374}{3933}, -\frac{176}{3933}, \frac{44}{1311}, -\frac{143}{3933})$ $+ \frac{22}{3933}\sqrt{1307e^6} \otimes e_8 + \frac{22}{3933}\sqrt{905e^1} \otimes e_2 + \frac{88}{3933}\sqrt{93e^4} \otimes e_9$	{1346, 2569}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{1831}\sqrt{193638e^{12}}, \frac{1}{1831}\sqrt{749390e^{14}} + \frac{1}{1831}\sqrt{331482e^{35}},$ $\frac{16}{1831}\sqrt{1094e^{17}} + \frac{6}{1831}\sqrt{11487e^{36}}$	$(\frac{134}{1831}, -\frac{413}{1831}, \frac{79}{1831}, \frac{402}{1831}, \frac{457}{1831}, -\frac{224}{1831}, -\frac{279}{1831}, \frac{536}{1831}, -\frac{145}{1831})$ $+ \frac{1}{1831}\sqrt{1020702e^4} \otimes e_9 + \frac{4}{1831}\sqrt{50871e^1} \otimes e_2$	{13589, 1689, 234568, 248}
931:32	$0, 0, 0, 0, 0, 0, \frac{4}{1767}\sqrt{10795e^{12}}, \frac{1}{1767}\sqrt{707390e^{14}} + \frac{1}{1767}\sqrt{92710e^{35}},$ $\frac{1}{1767}\sqrt{486410e^{17}} + \frac{1}{1767}\sqrt{941070e^{36}}$	$(\frac{37}{589}, \frac{5}{31}, \frac{169}{1767}, -\frac{136}{589}, -\frac{466}{1767}, \frac{338}{1767}, \frac{132}{589}, -\frac{99}{589}, \frac{169}{589})$ $+ \frac{10}{1767}\sqrt{11811e^6} \otimes e_8 + \frac{4}{1767}\sqrt{54610e^3} \otimes e_5$	{1245679, 1346, 2569, 367}
931:32	$0, 0, 0, 0, 0, 0, \frac{36}{713}\sqrt{3e^{12}}, \frac{126}{713}\sqrt{2e^{14}} + \frac{18}{713}\sqrt{109e^{35}},$ $\frac{18}{713}\sqrt{86e^{17}} + \frac{18}{713}\sqrt{115e^{36}}$	$(\frac{63}{713}, -\frac{99}{713}, -\frac{162}{713}, -\frac{36}{713}, \frac{189}{713}, \frac{189}{713}, -\frac{36}{713}, \frac{27}{713}, \frac{27}{713})$ $+ \frac{18}{713}\sqrt{173e^1} \otimes e_2 + \frac{198}{713}\sqrt{2e^6} \otimes e_8 + \frac{36}{713}\sqrt{59e^5} \otimes e_9$	{1389, 1469, 2356, 2458}
931:32	$0, 0, 0, 0, 0, 0, \frac{36}{713}\sqrt{3e^{12}}, \frac{126}{713}\sqrt{2e^{14}} + \frac{18}{713}\sqrt{109e^{35}},$ $\frac{18}{713}\sqrt{86e^{17}} + \frac{18}{713}\sqrt{115e^{36}}$	$(\frac{63}{713}, -\frac{99}{713}, -\frac{162}{713}, -\frac{36}{713}, \frac{189}{713}, \frac{189}{713}, -\frac{36}{713}, \frac{27}{713}, \frac{27}{713})$ $+ \frac{18}{713}\sqrt{173e^1} \otimes e_2 - \frac{198}{713}\sqrt{2e^6} \otimes e_8 + \frac{36}{713}\sqrt{59e^5} \otimes e_9$	{1389, 1469, 2356, 2458}
931:32	$0, 0, 0, 0, 0, 0, \frac{3}{949}\sqrt{3962e^{12}}, \frac{42}{949}\sqrt{15e^{14}} + \frac{30}{949}\sqrt{42e^{35}},$ $\frac{18}{949}\sqrt{133e^{17}} + \frac{3}{949}\sqrt{1190e^{36}}$	$(\frac{6}{949}, \frac{12}{949}, -\frac{138}{949}, -\frac{57}{949}, \frac{87}{949}, \frac{162}{949}, \frac{18}{949}, -\frac{51}{949}, \frac{24}{949})$ $+ \frac{12}{949}\sqrt{301e^1} \otimes e_4 + \frac{6}{949}\sqrt{1085e^5} \otimes e_9 + \frac{6}{949}\sqrt{763e^2} \otimes e_8$	{129, 2479}
931:32	$0, 0, 0, 0, 0, 0, \frac{6}{571}\sqrt{646e^{12}}, \frac{2}{571}\sqrt{49742e^{14}} + \frac{2}{571}\sqrt{4845e^{35}},$ $\frac{2}{571}\sqrt{45866e^{17}} + \frac{6}{571}\sqrt{323e^{36}}$	$(\frac{293}{571}, -\frac{353}{571}, \frac{124}{571}, -\frac{54}{571}, \frac{115}{571}, \frac{109}{571}, -\frac{60}{571}, \frac{239}{571}, \frac{233}{571})$ $+ \frac{2}{571}\sqrt{152133e^1} \otimes e_2$	{13469, 135689, 1459, 189, 23, 23458, 2468, 256}
931:32	$0, 0, 0, 0, 0, 0, \frac{368}{7765}\sqrt{15e^{12}}, \frac{23}{7765}\sqrt{4818e^{14}} + \frac{23}{7765}\sqrt{5486e^{35}},$ $\frac{23}{7765}\sqrt{6254e^{17}} + \frac{23}{7765}\sqrt{1686e^{36}}$	$(\frac{713}{7765}, \frac{1357}{7765}, \frac{299}{7765}, \frac{184}{7765}, \frac{598}{7765}, \frac{46}{7765}, -\frac{644}{7765}, \frac{897}{7765}, \frac{69}{7765})$ $+ \frac{46}{7765}\sqrt{1389e^5} \otimes e_9 + \frac{46}{7765}\sqrt{1394e^1} \otimes e_4 + \frac{46}{7765}\sqrt{818e^3} \otimes e_6$	{1357, 345}
931:32	$0, 0, 0, 0, 0, 0, \frac{147}{1714}\sqrt{5e^{12}}, \frac{21}{857}\sqrt{110e^{14}} + \frac{21}{1714}\sqrt{1090e^{35}},$ $\frac{21}{1714}\sqrt{1002e^{17}} + \frac{21}{857}\sqrt{31e^{36}}$	$(\frac{105}{1714}, -\frac{168}{857}, \frac{315}{3428}, \frac{735}{3428}, \frac{315}{1714}, -\frac{567}{3428}, -\frac{231}{1714}, \frac{945}{3428}, -\frac{63}{857})$ $+ \frac{105}{1714}\sqrt{57e^5} \otimes e_9 + \frac{21}{1714}\sqrt{986e^3} \otimes e_6 + \frac{399}{1714}\sqrt{2e^1} \otimes e_2$	{1357, 145678}
931:32	$0, 0, 0, 0, 0, 0, \frac{36}{2951}\sqrt{195e^{12}}, \frac{36}{2951}\sqrt{435e^{14}} + \frac{72}{2951}\sqrt{435e^{35}},$ $\frac{108}{2951}\sqrt{203e^{17}} + \frac{36}{2951}\sqrt{849e^{36}}$	$(\frac{870}{2951}, -\frac{1074}{2951}, \frac{1305}{2951}, \frac{15}{227}, -\frac{240}{2951}, -\frac{639}{2951}, -\frac{204}{2951}, \frac{1065}{2951}, \frac{666}{2951})$ $+ \frac{36}{2951}\sqrt{3786e^3} \otimes e_6 + \frac{36}{2951}\sqrt{4047e^1} \otimes e_2$	{13457, 1378, 1467, 15678}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{93}\sqrt{230e^{12}}, \frac{1}{93}\sqrt{2990e^{14}} + \frac{2}{93}\sqrt{690e^{35}},$ $\frac{1}{93}\sqrt{690e^{17}} + \frac{1}{93}\sqrt{8970e^{36}}$	$(\frac{14}{93}, \frac{5}{31}, \frac{22}{31}, \frac{1}{31}, -\frac{49}{93}, -\frac{23}{93}, \frac{29}{93}, \frac{17}{93}, \frac{43}{93})$ $+ \frac{1}{93}\sqrt{17710e^3} \otimes e_5$	{12346, 1245, 13479, 145679, 2367, 257, 39, 569}
931:32	$0, 0, 0, 0, 0, 0, \frac{34}{2765}\sqrt{246e^{12}}, \frac{34}{2765}\sqrt{341e^{14}} + \frac{34}{2765}\sqrt{57e^{35}},$ $\frac{68}{2765}\sqrt{19e^{17}} + \frac{34}{2765}\sqrt{966e^{36}}$	$(-\frac{289}{2765}, \frac{119}{395}, \frac{17}{553}, -\frac{17}{395}, -\frac{493}{2765}, \frac{34}{553}, \frac{544}{2765}, -\frac{408}{2765}, \frac{51}{553})$ $- \frac{34}{2765}\sqrt{857e^2} \otimes e_9 + \frac{34}{2765}\sqrt{914e^6} \otimes e_8 + \frac{68}{2765}\sqrt{193e^3} \otimes e_5$	{12346, 145679, 2367, 569}
931:32	$0, 0, 0, 0, 0, 0, \frac{34}{2765}\sqrt{246e^{12}}, \frac{34}{2765}\sqrt{341e^{14}} + \frac{34}{2765}\sqrt{57e^{35}},$ $\frac{68}{2765}\sqrt{19e^{17}} + \frac{34}{2765}\sqrt{966e^{36}}$	$(-\frac{289}{2765}, \frac{119}{395}, \frac{17}{553}, -\frac{17}{395}, -\frac{493}{2765}, \frac{34}{553}, \frac{544}{2765}, -\frac{408}{2765}, \frac{51}{553})$ $+ \frac{34}{2765}\sqrt{857e^2} \otimes e_9 + \frac{34}{2765}\sqrt{914e^6} \otimes e_8 + \frac{68}{2765}\sqrt{193e^3} \otimes e_5$	{12346, 145679, 2367, 569}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{303}\sqrt{5278e^{12}}, \frac{1}{101}\sqrt{910e^{14}} + \frac{2}{303}\sqrt{3731e^{35}},$ $\frac{91}{303}\sqrt{2e^{17}} + \frac{1}{303}\sqrt{8554e^{36}}$	$(\frac{19}{303}, \frac{38}{303}, -\frac{1}{101}, -\frac{24}{101}, -\frac{50}{303}, \frac{79}{303}, \frac{19}{101}, -\frac{53}{303}, \frac{76}{303})$ $+ \frac{1}{303}\sqrt{27118e^1} \otimes e_4 + \frac{2}{303}\sqrt{5551e^2} \otimes e_8$	{123569, 129, 2345679, 2479}
931:32	$0, 0, 0, 0, 0, 0, \frac{42}{347}\sqrt{3e^{12}}, \frac{9}{347}\sqrt{238e^{14}} + \frac{21}{347}\sqrt{10e^{35}},$ $\frac{21}{347}\sqrt{10e^{17}} + \frac{3}{347}\sqrt{1946e^{36}}$	$(-\frac{49}{347}, \frac{69}{347}, -\frac{77}{347}, \frac{34}{347}, \frac{62}{347}, \frac{48}{347}, \frac{20}{347}, -\frac{15}{347}, -\frac{29}{347})$ $+ \frac{24}{347}\sqrt{35e^4} \otimes e_9 + \frac{24}{347}\sqrt{35e^6} \otimes e_8$	{1235789, 1346, 2569, 478}
931:32	$0, 0, 0, 0, 0, 0, \frac{3}{1193}\sqrt{85098e^{12}}, \frac{2}{1193}\sqrt{76370e^{14}} + \frac{2}{1193}\sqrt{204017e^{35}},$ $\frac{4}{1193}\sqrt{6546e^{17}} + \frac{2}{1193}\sqrt{150558e^{36}}$	$(-\frac{324}{1193}, \frac{842}{1193}, -\frac{90}{1193}, \frac{75}{1193}, -\frac{159}{1193}, \frac{284}{1193}, \frac{518}{1193}, -\frac{249}{1193}, \frac{194}{1193})$ $+ \frac{2}{1193}\sqrt{533499e^2} \otimes e_8$	{1234569, 1249, 1378, 15678, 235679, 279, 348, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{747}\sqrt{6346e^{12}}, \frac{4}{747}\sqrt{1169e^{14}} + \frac{2}{747}\sqrt{26553e^{35}},$ $\frac{4}{249}\sqrt{1169e^{17}} + \frac{2}{747}\sqrt{3173e^{36}}$	$(\frac{103}{747}, -\frac{77}{249}, -\frac{92}{747}, \frac{38}{249}, \frac{103}{249}, \frac{67}{747}, -\frac{128}{747}, \frac{217}{747}, -\frac{25}{747})$ $+ \frac{2}{249}\sqrt{5177e^1} \otimes e_2 + \frac{2}{747}\sqrt{63794e^5} \otimes e_9$	{13567, 14578, 23789, 24679}
931:32	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{53922e^{12}}, \frac{10}{287}\sqrt{418e^{14}} + \frac{1}{287}\sqrt{28006e^{35}},$ $\frac{2}{287}\sqrt{15466e^{17}} + \frac{19}{287}\sqrt{66e^{36}}$	$(\frac{110}{287}, -\frac{85}{287}, \frac{34}{287}, -\frac{99}{287}, -\frac{23}{287}, \frac{101}{287}, \frac{25}{287}, \frac{11}{287}, \frac{135}{287})$ $+ \frac{9}{287}\sqrt{1254e^1} \otimes e_4$	{123569, 129, 1357, 167, 2345679, 2479, 345, 46}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{553e^{12}}, \frac{5}{99}\sqrt{158e^{14}} + \frac{1}{99}\sqrt{6162e^{35}},$ $\frac{1}{99}\sqrt{6162e^{17}} + \frac{1}{99}\sqrt{1106e^{36}}$	$(-\frac{1}{9}, \frac{1}{33}, -\frac{29}{99}, \frac{14}{33}, \frac{20}{33}, \frac{10}{99}, -\frac{8}{99}, \frac{31}{99}, -\frac{19}{99})$ $+ \frac{2}{99}\sqrt{3239e^5} \otimes e_9$	{123489, 1269, 13567, 14578, 23789, 24679, 3456, 58}
931:32	$0, 0, 0, 0, 0, 0, \frac{2}{1139}\sqrt{94323e^{12}}, \frac{1}{1139}\sqrt{576874e^{14}} + \frac{1}{1139}\sqrt{1380670e^{35}},$ $\frac{1}{1139}\sqrt{527662e^{17}} + \frac{1}{1139}\sqrt{451110e^{36}}$	$(\frac{83}{1139}, \frac{65}{1139}, \frac{47}{67}, \frac{414}{1139}, -\frac{302}{1139}, -\frac{568}{1139}, \frac{148}{1139}, \frac{497}{1139}, \frac{231}{1139})$ $+ \frac{12}{1139}\sqrt{17771e^3} \otimes e_6$	{13478, 1357, 145678, 167, 345, 38, 46, 568}
931:33	$0, 0, 0, 0, 0, 0, \frac{16}{467}\sqrt{53e^{12}}, \frac{32}{467}\sqrt{30e^{13}} + \frac{16}{467}\sqrt{53e^{45}},$ $\frac{16}{467}\sqrt{114e^{27}} + \frac{48}{467}\sqrt{7e^{36}}$	$(-\frac{128}{467}, \frac{112}{467}, \frac{112}{467}, -\frac{72}{467}, \frac{56}{467}, -\frac{16}{467}, -\frac{16}{467}, -\frac{16}{467}, \frac{96}{467})$ $+ \frac{128}{467}e^5 \otimes e_4 + \frac{32}{467}\sqrt{31e^3} \otimes e_6 + \frac{48}{467}\sqrt{26e^2} \otimes e_8$	{348, 358}
931:33	$0, 0, 0, 0, 0, 0, \frac{1}{368}\sqrt{25351e^{12}}, \frac{1}{92}\sqrt{2761e^{13}} + \frac{1}{92}\sqrt{4769e^{45}},$ $\frac{9}{368}\sqrt{502e^{27}} + \frac{5}{368}\sqrt{2510e^{36}}$	$(\frac{101}{368}, -\frac{17}{92}, \frac{53}{33}, \frac{27}{46}, -\frac{177}{736}, \frac{123}{368}, \frac{33}{368}, \frac{255}{736}, -\frac{35}{368})$ $+ \frac{1}{368}\sqrt{152859e^4} \otimes e_9$	{123589, 1269, 135789, 1679, 234567, 2478, 3456, 48}
931:33	$0, 0, 0, 0, 0, 0, \frac{8}{3787}\sqrt{9737e^{12}}, \frac{32}{3787}\sqrt{26e^{13}} + \frac{8}{3787}\sqrt{16549e^{45}},$ $\frac{8}{3787}\sqrt{15158e^{27}} + \frac{136}{3787}\sqrt{13e^{36}}$	$(-\frac{288}{3787}, \frac{300}{3787}, \frac{172}{3787}, \frac{104}{541}, -\frac{844}{3787}, \frac{20}{541}, \frac{12}{3787}, -\frac{116}{3787}, \frac{312}{3787})$ $+ \frac{16}{3787}\sqrt{5109e^4} \otimes e_9 + \frac{8}{3787}\sqrt{23218e^2} \otimes e_8$	{1269, 135789, 234567, 48}
931:33	$0, 0, 0, 0, 0, 0, \frac{3}{136}\sqrt{51e^{12}}, \frac{3}{136}\sqrt{66e^{13}} + \frac{21}{136}\sqrt{6e^{45}},$ $\frac{9}{68}\sqrt{2e^{27}} + \frac{9}{136}\sqrt{30e^{36}}$	$(\frac{1}{8}, -\frac{3}{68}, -\frac{39}{272}, \frac{4}{17}, -\frac{69}{272}, \frac{49}{136}, \frac{11}{136}, -\frac{5}{272}, \frac{5}{136})$ $+ \frac{3}{136}\sqrt{330e^6} \otimes e_8 + \frac{3}{136}\sqrt{399e^4} \otimes e_9$	{123589, 1269, 135789, 1679, 234567, 2478, 3456, 48}
931:33	$0, 0, 0, 0, 0, 0, \frac{3}{136}\sqrt{51e^{12}}, \frac{3}{136}\sqrt{66e^{13}} + \frac{21}{136}\sqrt{6e^{45}},$ $\frac{9}{68}\sqrt{2e^{27}} + \frac{9}{136}\sqrt{30e^{36}}$	$(\frac{1}{8}, -\frac{3}{68}, -\frac{39}{272}, \frac{4}{17}, -\frac{69}{272}, \frac{49}{136}, \frac{11}{136}, -\frac{5}{272}, \frac{5}{136})$ $- \frac{3}{136}\sqrt{330e^6} \otimes e_8 + \frac{3}{136}\sqrt{399e^4} \otimes e_9$	{123589, 1269, 135789, 1679, 234567, 2478, 3456, 48}
931:33	$0, 0, 0, 0, 0, 0, \frac{4}{231}\sqrt{690e^{12}}, \frac{8}{231}\sqrt{23e^{13}} + \frac{4}{231}\sqrt{690e^{45}},$ $\frac{8}{231}\sqrt{138e^{27}} + \frac{4}{231}\sqrt{506e^{36}}$	$(\frac{10}{77}, \frac{20}{231}, \frac{34}{231}, \frac{72}{77}, -\frac{152}{231}, \frac{12}{77}, \frac{50}{231}, \frac{64}{231}, \frac{10}{33})$ $+ \frac{368}{231}e^4 \otimes e_5$	{124689, 125689, 146789, 156789, 234678, 235678, 3468, 3568}
931:33	$0, 0, 0, 0, 0, 0, \frac{16}{403}\sqrt{53e^{12}}, \frac{32}{403}\sqrt{30e^{13}} + \frac{16}{403}\sqrt{53e^{45}},$ $\frac{16}{403}\sqrt{114e^{27}} + \frac{48}{403}\sqrt{7e^{36}}$	$(-\frac{128}{403}, \frac{112}{403}, \frac{112}{403}, -\frac{8}{403}, -\frac{8}{403}, -\frac{16}{403}, -\frac{16}{403}, -\frac{16}{403}, \frac{96}{403})$ $+ \frac{32}{403}\sqrt{31e^3} \otimes e_6 + \frac{48}{403}\sqrt{26e^2} \otimes e_8$	{24567, 267, 348}
931:33	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1122e^{12}}, \frac{5}{79}\sqrt{34e^{13}} + \frac{1}{79}\sqrt{1122e^{45}},$ $\frac{1}{79}\sqrt{1598e^{27}} + \frac{17}{79}\sqrt{2e^{36}}$	$(-\frac{37}{158}, \frac{22}{79}, \frac{13}{158}, \frac{11}{79}, -\frac{23}{79}, \frac{19}{79}, \frac{7}{158}, -\frac{12}{79}, \frac{51}{158})$ $+ \frac{1}{79}\sqrt{3502e^2} \otimes e_8 + \frac{34}{79}e^4 \otimes e_5$	{14789, 15789, 348, 358}
931:33	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{249e^{12}}, \frac{1}{181}\sqrt{7802e^{13}} + \frac{1}{181}\sqrt{17430e^{45}},$ $\frac{1}{181}\sqrt{2490e^{27}} + \frac{2}{181}\sqrt{4565e^{36}}$	$(\frac{6}{181}, \frac{37}{181}, -\frac{46}{181}, -\frac{20}{181}, -\frac{20}{181}, \frac{126}{181}, \frac{43}{181}, -\frac{40}{181}, \frac{80}{181})$ $- \frac{3}{181}\sqrt{5478e^6} \otimes e_8$	{123456, 1236, 1248, 134567, 1367, 1478, 234789, 245679, 2679, 3489, 4569, 69}
931:33	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{249e^{12}}, \frac{1}{181}\sqrt{7802e^{13}} + \frac{1}{181}\sqrt{17430e^{45}},$ $\frac{1}{181}\sqrt{2490e^{27}} + \frac{2}{181}\sqrt{4565e^{36}}$	$(\frac{6}{181}, \frac{37}{181}, -\frac{46}{181}, -\frac{20}{181}, -\frac{20}{181}, \frac{126}{181}, \frac{43}{181}, -\frac{40}{181}, \frac{80}{181})$ $+ \frac{3}{181}\sqrt{5478e^6} \otimes e_8$	{123456, 1236, 1248, 134567, 1367, 1478, 234789, 245679, 2679, 3489, 4569, 69}
931:33	$0, 0, 0, 0, 0, 0, \frac{8}{933}\sqrt{489e^{12}}, \frac{32}{933}\sqrt{6e^{13}} + \frac{8}{311}\sqrt{93e^{45}},$ $\frac{8}{933}\sqrt{822e^{27}} + \frac{8}{933}\sqrt{141e^{36}}$	$(-\frac{32}{311}, \frac{28}{311}, \frac{28}{311}, -\frac{60}{311}, \frac{56}{311}, -\frac{4}{311}, -\frac{4}{311}, -\frac{4}{311}, \frac{24}{311})$ $+ \frac{16}{311}\sqrt{29e^5} \otimes e_9 + \frac{64}{933}\sqrt{3e^3} \otimes e_6 + \frac{8}{933}\sqrt{1266e^2} \otimes e_8$	{1239, 146789}
931:33	$0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{685e^{12}}, \frac{8}{221}\sqrt{822e^{13}} + \frac{4}{221}\sqrt{685e^{45}},$ $\frac{2}{221}\sqrt{2877e^{27}} + \frac{6}{221}\sqrt{411e^{36}}$	$(-\frac{40}{221}, \frac{35}{221}, \frac{152}{221}, \frac{56}{221}, \frac{56}{221}, -\frac{122}{221}, -\frac{5}{221}, \frac{112}{221}, \frac{30}{221})$ $+ \frac{2}{221}\sqrt{25345e^3} \otimes e_6$	{12347, 1245678, 12678, 134, 14568, 168}
931:33	$0, 0, 0, 0, 0, 0, \frac{60}{619}\sqrt{7e^{12}}, \frac{20}{619}\sqrt{42e^{13}} + \frac{40}{619}\sqrt{70e^{45}},$ $\frac{10}{619}\sqrt{777e^{27}} + \frac{10}{619}\sqrt{861e^{36}}$	$(\frac{72}{619}, -\frac{63}{619}, \frac{148}{619}, \frac{296}{619}, -\frac{76}{619}, -\frac{202}{619}, \frac{9}{619}, \frac{220}{619}, -\frac{54}{619})$ $+ \frac{10}{619}\sqrt{1141e^3} \otimes e_6 + \frac{20}{619}\sqrt{651e^4} \otimes e_9$	{123589, 1269, 135789, 1679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:33	$0, 0, 0, 0, 0, 0, \frac{2}{179}\sqrt{685}e^{12}, \frac{4}{179}\sqrt{822}e^{13} + \frac{2}{179}\sqrt{685}e^{45},$ $\frac{1}{179}\sqrt{2877}e^{27} + \frac{3}{179}\sqrt{411}e^{36}$	$(-\frac{20}{179}, \frac{35}{358}, \frac{76}{179}, \frac{193}{358}, -\frac{81}{358}, -\frac{61}{179}, -\frac{5}{358}, \frac{56}{179}, \frac{15}{179})$ $+\frac{137}{179}e^4 \otimes e_5 + \frac{1}{179}\sqrt{25345}e^3 \otimes e_6$	{12347, 12357, 134, 135}
931:33	$0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{249}e^{12}, \frac{1}{264}\sqrt{7802}e^{13} + \frac{1}{264}\sqrt{17430}e^{45},$ $\frac{1}{264}\sqrt{2490}e^{27} + \frac{1}{132}\sqrt{4565}e^{36}$	$(\frac{1}{44}, \frac{37}{264}, -\frac{23}{132}, \frac{21}{88}, -\frac{103}{264}, \frac{21}{44}, \frac{43}{264}, -\frac{5}{33}, \frac{10}{33})$ $-\frac{1}{88}\sqrt{5478}e^6 \otimes e_8 + \frac{83}{132}e^4 \otimes e_5$	{1248, 1258, 1478, 1578, 234789, 235789, 3489, 3589}
931:33	$0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{249}e^{12}, \frac{1}{264}\sqrt{7802}e^{13} + \frac{1}{264}\sqrt{17430}e^{45},$ $\frac{1}{264}\sqrt{2490}e^{27} + \frac{1}{132}\sqrt{4565}e^{36}$	$(\frac{1}{44}, \frac{37}{264}, -\frac{23}{132}, \frac{21}{88}, -\frac{103}{264}, \frac{21}{44}, \frac{43}{264}, -\frac{5}{33}, \frac{10}{33})$ $+\frac{1}{88}\sqrt{5478}e^6 \otimes e_8 + \frac{83}{132}e^4 \otimes e_5$	{1248, 1258, 1478, 1578, 234789, 235789, 3489, 3589}
931:33	$0, 0, 0, 0, 0, 0, \frac{1}{62}\sqrt{1122}e^{12}, \frac{5}{62}\sqrt{34}e^{13} + \frac{1}{62}\sqrt{1122}e^{45},$ $\frac{1}{62}\sqrt{1598}e^{27} + \frac{17}{62}\sqrt{2}e^{36}$	$(-\frac{37}{124}, \frac{11}{31}, \frac{13}{124}, -\frac{3}{31}, -\frac{3}{31}, \frac{19}{62}, \frac{7}{124}, -\frac{6}{31}, \frac{51}{124})$ $+\frac{1}{62}\sqrt{3502}e^2 \otimes e_8$	{1234569, 12369, 14789, 24567, 267, 348}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{1449}\sqrt{273182}e^{12}, \frac{52}{1449}\sqrt{474}e^{14} + \frac{2}{1449}\sqrt{148915}e^{35},$ $\frac{1}{1449}\sqrt{167401}e^{27} + \frac{1}{1449}\sqrt{967434}e^{36}$	$(-\frac{38}{207}, \frac{32}{1449}, \frac{44}{1449}, \frac{275}{483}, \frac{515}{1449}, -\frac{82}{483}, -\frac{26}{161}, \frac{559}{1449}, -\frac{202}{1449})$ $+\frac{4}{483}\sqrt{17459}e^4 \otimes e_9$	{123467, 12457, 1346, 145, 239, 2569, 379, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{1086}e^{12}, \frac{3}{1057}\sqrt{25702}e^{14} + \frac{9}{1057}\sqrt{1810}e^{35},$ $\frac{1}{1057}\sqrt{71314}e^{27} + \frac{6}{1057}\sqrt{7783}e^{36}$	$(-\frac{21}{151}, \frac{74}{1057}, \frac{289}{1057}, \frac{363}{1057}, -\frac{73}{1057}, \frac{288}{1057}, -\frac{73}{1057}, \frac{216}{1057}, \frac{1}{1057})$ $+\frac{1}{1057}\sqrt{271138}e^3 \otimes e_5 + \frac{1}{1057}\sqrt{422454}e^4 \otimes e_9$	{123467, 12457, 1346, 145, 239, 2569, 379, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{1086}e^{12}, \frac{3}{1057}\sqrt{25702}e^{14} + \frac{9}{1057}\sqrt{1810}e^{35},$ $\frac{1}{1057}\sqrt{71314}e^{27} + \frac{6}{1057}\sqrt{7783}e^{36}$	$(-\frac{21}{151}, \frac{74}{1057}, \frac{289}{1057}, \frac{363}{1057}, -\frac{73}{1057}, \frac{288}{1057}, -\frac{73}{1057}, \frac{216}{1057}, \frac{1}{1057})$ $+\frac{1}{1057}\sqrt{271138}e^3 \otimes e_5 - \frac{1}{1057}\sqrt{422454}e^4 \otimes e_9$	{123467, 12457, 1346, 145, 239, 2569, 379, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{2}{1575}\sqrt{25753}e^{12}, \frac{4}{1575}\sqrt{14433}e^{14} + \frac{13}{1575}\sqrt{566}e^{35},$ $\frac{32}{1575}\sqrt{283}e^{27} + \frac{1}{1575}\sqrt{22074}e^{36}$	$(-\frac{59}{225}, \frac{52}{315}, -\frac{31}{1575}, \frac{26}{105}, \frac{8}{1575}, \frac{46}{525}, -\frac{17}{175}, -\frac{23}{1575}, \frac{107}{1575})$ $+\frac{1}{1575}\sqrt{439782}e^2 \otimes e_8 + \frac{1}{525}\sqrt{39054}e^4 \otimes e_9$	{13789, 156789, 3468, 458}
931:34	$0, 0, 0, 0, 0, 0, \frac{5}{69}\sqrt{174}e^{12}, \frac{2}{23}\sqrt{29}e^{14} + \frac{2}{23}\sqrt{29}e^{35},$ $\frac{2}{69}\sqrt{174}e^{27} + \frac{1}{69}\sqrt{174}e^{36}$	$(\frac{50}{69}, -\frac{16}{69}, \frac{2}{23}, -\frac{37}{69}, \frac{7}{69}, \frac{4}{23}, \frac{34}{69}, \frac{13}{69}, \frac{6}{23})$ $+\frac{4}{69}\sqrt{609}e^1 \otimes e_4$	{12359, 1269, 13579, 1679, 234567, 247, 3456, 4}
931:34	$0, 0, 0, 0, 0, 0, \frac{2}{1443}\sqrt{151662}e^{12}, \frac{2}{481}\sqrt{9106}e^{14} + \frac{4}{481}\sqrt{4710}e^{35},$ $\frac{2}{1443}\sqrt{40035}e^{27} + \frac{2}{1443}\sqrt{44745}e^{36}$	$(\frac{644}{1443}, -\frac{19}{111}, \frac{14}{37}, -\frac{298}{1443}, -\frac{200}{1443}, -\frac{132}{481}, \frac{397}{1443}, \frac{346}{1443}, \frac{50}{481})$ $+\frac{2}{481}\sqrt{34069}e^3 \otimes e_6 + \frac{4}{1443}\sqrt{74418}e^1 \otimes e_4$	{23457, 2467, 345, 46}
931:34	$0, 0, 0, 0, 0, 0, \frac{266}{2665}\sqrt{22710}e^{12}, \frac{4}{2665}\sqrt{131718}e^{14} + \frac{4}{2665}\sqrt{7570}e^{35},$ $\frac{6}{2665}\sqrt{40121}e^{27} + \frac{2}{2665}\sqrt{376229}e^{36}$	$(-\frac{48}{533}, -\frac{21}{2665}, \frac{616}{2665}, \frac{1232}{2665}, \frac{376}{2665}, -\frac{898}{2665}, -\frac{261}{2665}, \frac{992}{2665}, -\frac{282}{2665})$ $+\frac{2}{2665}\sqrt{557909}e^3 \otimes e_6 + \frac{4}{2665}\sqrt{301286}e^4 \otimes e_9$	{239, 2569, 379, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{28}{1161}\sqrt{105}e^{12}, \frac{112}{1161}\sqrt{10}e^{14} + \frac{28}{1161}\sqrt{530}e^{35},$ $\frac{14}{1161}\sqrt{1145}e^{27} + \frac{14}{1161}\sqrt{85}e^{36}$	$(\frac{56}{387}, -\frac{7}{43}, \frac{140}{1161}, \frac{28}{129}, \frac{280}{1161}, \frac{350}{1161}, -\frac{7}{387}, \frac{140}{387}, -\frac{70}{387})$ $+\frac{140}{1161}\sqrt{29}e^5 \otimes e_9 + \frac{14}{1161}\sqrt{2285}e^3 \otimes e_6$	{123489, 1269, 134789, 1679}
931:34	$0, 0, 0, 0, 0, 0, \frac{7}{129}\sqrt{89}e^{12}, \frac{1}{86}\sqrt{178}e^{14} + \frac{1}{258}\sqrt{2314}e^{35},$ $\frac{2}{129}\sqrt{178}e^{27} + \frac{1}{129}\sqrt{4717}e^{36}$	$(\frac{49}{129}, -\frac{2}{43}, \frac{49}{129}, -\frac{40}{129}, -\frac{40}{129}, -\frac{4}{43}, \frac{1}{3}, \frac{3}{43}, \frac{37}{129})$ $+\frac{1}{258}\sqrt{40406}e^1 \otimes e_4 - \frac{1}{258}\sqrt{41118}e^3 \otimes e_5$	{1236, 125, 1367, 157, 23479, 245679, 349, 4569}
931:34	$0, 0, 0, 0, 0, 0, \frac{7}{129}\sqrt{89}e^{12}, \frac{1}{86}\sqrt{178}e^{14} + \frac{1}{258}\sqrt{2314}e^{35},$ $\frac{2}{129}\sqrt{178}e^{27} + \frac{1}{129}\sqrt{4717}e^{36}$	$(\frac{49}{129}, -\frac{2}{43}, \frac{49}{129}, -\frac{40}{129}, -\frac{40}{129}, -\frac{4}{43}, \frac{1}{3}, \frac{3}{43}, \frac{37}{129})$ $+\frac{1}{258}\sqrt{40406}e^1 \otimes e_4 + \frac{1}{258}\sqrt{41118}e^3 \otimes e_5$	{1236, 125, 1367, 157, 23479, 245679, 349, 4569}
931:34	$0, 0, 0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{66}e^{14} + \frac{4}{87}\sqrt{51}e^{35},$ $\frac{2}{87}\sqrt{102}e^{27} + \frac{2}{87}\sqrt{186}e^{36}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{8}{29}, -\frac{4}{29}, \frac{8}{29}, \frac{8}{29}, \frac{2}{29}, 0, 0)$ $+\frac{2}{87}\sqrt{390}e^5 \otimes e_9 + \frac{4}{29}\sqrt{5}e^1 \otimes e_4 - \frac{4}{87}\sqrt{93}e^6 \otimes e_8$	{12389, 13789, 24578, 458}
931:34	$0, 0, 0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{66}e^{14} + \frac{4}{87}\sqrt{51}e^{35},$ $\frac{2}{87}\sqrt{102}e^{27} + \frac{2}{87}\sqrt{186}e^{36}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{8}{29}, -\frac{4}{29}, \frac{8}{29}, \frac{8}{29}, \frac{2}{29}, 0, 0)$ $+\frac{2}{87}\sqrt{390}e^5 \otimes e_9 + \frac{4}{29}\sqrt{5}e^1 \otimes e_4 + \frac{4}{87}\sqrt{93}e^6 \otimes e_8$	{12389, 13789, 24578, 458}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{447}\sqrt{27438}e^{12}, \frac{1}{149}\sqrt{3766}e^{14} + \frac{1}{447}\sqrt{25286}e^{35},$ $\frac{1}{149}\sqrt{538}e^{27} + \frac{1}{447}\sqrt{44654}e^{36}$	$(\frac{34}{149}, \frac{14}{447}, -\frac{74}{447}, -\frac{167}{447}, \frac{3}{149}, \frac{68}{149}, \frac{116}{447}, -\frac{65}{447}, \frac{130}{447})$ $+\frac{1}{447}\sqrt{124278}e^6 \otimes e_8 + \frac{8}{447}\sqrt{1345}e^1 \otimes e_4$	{1258, 1578, 234789, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:34	$0, 0, 0, 0, 0, 0, \frac{3}{1253}\sqrt{36894e^{12}}, \frac{2}{1253}\sqrt{36894e^{14}} + \frac{2}{1253}\sqrt{92235e^{35}},$ $\frac{2}{1253}\sqrt{104533e^{27}} + \frac{3}{1253}\sqrt{12298e^{36}}$	$(-\frac{36}{179}, \frac{352}{1253}, \frac{176}{1253}, \frac{45}{1253}, -\frac{383}{1253}, \frac{276}{1253}, \frac{100}{1253}, -\frac{207}{1253}, \frac{452}{1253})$ $+ \frac{2}{1253}\sqrt{64285e^3} \otimes e_5 + \frac{6}{1253}\sqrt{26273e^2} \otimes e_8$	{136789, 15789, 348, 4568}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{551}\sqrt{11110e^{12}}, \frac{1}{551}\sqrt{43430e^{14}} + \frac{1}{551}\sqrt{7878e^{35}},$ $\frac{1}{551}\sqrt{9494e^{27}} + \frac{1}{551}\sqrt{36562e^{36}}$	$(-\frac{110}{551}, \frac{2}{19}, -\frac{92}{551}, \frac{107}{551}, \frac{89}{551}, \frac{98}{551}, -\frac{52}{551}, -\frac{3}{551}, \frac{6}{551})$ $+ \frac{1}{551}\sqrt{46258e^6} \otimes e_8 + \frac{4}{551}\sqrt{3434e^4} \otimes e_9$	{123467, 1346, 2569, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{8}{377}\sqrt{339e^{12}}, \frac{9}{377}\sqrt{226e^{14}} + \frac{2}{377}\sqrt{20001e^{35}},$ $\frac{10}{377}\sqrt{73902e^{27}} + \frac{10}{377}\sqrt{339e^{36}}$	$(\frac{64}{377}, -\frac{72}{377}, -\frac{99}{377}, \frac{96}{377}, \frac{259}{377}, \frac{19}{377}, -\frac{8}{377}, \frac{160}{377}, -\frac{80}{377})$ $+ \frac{2}{377}\sqrt{52206e^5} \otimes e_9$	{123489, 1269, 134789, 1679, 234567, 2578, 3456, 58}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{89}\sqrt{1870e^{12}}, \frac{1}{89}\sqrt{2090e^{14}} + \frac{12}{89}\sqrt{55e^{35}},$ $\frac{1}{89}\sqrt{1870e^{27}} + \frac{1}{89}\sqrt{2090e^{36}}$	$(\frac{17}{89}, -\frac{1}{89}, \frac{125}{178}, \frac{51}{178}, -\frac{20}{89}, -\frac{95}{178}, \frac{16}{89}, \frac{85}{178}, \frac{15}{89})$ $+ \frac{2}{89}\sqrt{4015e^3} \otimes e_6$	{23457, 2378, 2467, 25678, 345, 38, 46, 568}
931:34	$0, 0, 0, 0, 0, 0, \frac{7}{139}\sqrt{14e^{12}}, \frac{7}{139}\sqrt{38e^{14}} + \frac{7}{139}\sqrt{6e^{35}},$ $\frac{21}{139}\sqrt{2e^{27}} + \frac{7}{139}\sqrt{78e^{36}}$	$(\frac{14}{139}, \frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $+ \frac{14}{139}\sqrt{14e^1} \otimes e_4 - \frac{14}{139}\sqrt{22e^3} \otimes e_5 + \frac{7}{139}\sqrt{110e^6} \otimes e_8$	{1258, 1578, 234789, 3489}
931:34	$0, 0, 0, 0, 0, 0, \frac{7}{139}\sqrt{14e^{12}}, \frac{7}{139}\sqrt{38e^{14}} + \frac{7}{139}\sqrt{6e^{35}},$ $\frac{21}{139}\sqrt{2e^{27}} + \frac{7}{139}\sqrt{78e^{36}}$	$(\frac{14}{139}, \frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $+ \frac{14}{139}\sqrt{14e^1} \otimes e_4 + \frac{14}{139}\sqrt{22e^3} \otimes e_5 + \frac{7}{139}\sqrt{110e^6} \otimes e_8$	{1258, 1578, 234789, 3489}
931:34	$0, 0, 0, 0, 0, 0, \frac{4}{1093}\sqrt{3245e^{12}}, \frac{1}{1093}\sqrt{6726e^{14}} + \frac{2}{1093}\sqrt{22597e^{35}},$ $\frac{1}{1093}\sqrt{92630e^{27}} + \frac{13}{1093}\sqrt{118e^{36}}$	$(-\frac{131}{1093}, \frac{76}{1093}, -\frac{181}{1093}, \frac{89}{1093}, \frac{139}{1093}, \frac{202}{1093}, -\frac{55}{1093}, -\frac{42}{1093}, \frac{21}{1093})$ $+ \frac{1}{1093}\sqrt{95462e^5} \otimes e_9 + \frac{2}{1093}\sqrt{33689e^2} \otimes e_8$	{1249, 136789, 2357, 4568}
931:34	$0, 0, 0, 0, 0, 0, \frac{28}{1265}\sqrt{182e^{12}}, \frac{14}{1265}\sqrt{590e^{14}} + \frac{56}{1265}\sqrt{93e^{35}},$ $\frac{14}{1265}\sqrt{782e^{27}} + \frac{14}{1265}\sqrt{38e^{36}}$	$(\frac{364}{1265}, -\frac{266}{1265}, \frac{112}{1265}, -\frac{28}{1265}, \frac{224}{1265}, -\frac{56}{1265}, \frac{98}{1265}, \frac{336}{1265}, -\frac{168}{1265})$ $+ \frac{14}{1265}\sqrt{1938e^5} \otimes e_9 + \frac{28}{1265}\sqrt{287e^1} \otimes e_4 + \frac{28}{1265}\sqrt{382e^3} \otimes e_6$	{1269, 1679}
931:34	$0, 0, 0, 0, 0, 0, \frac{28}{661}\sqrt{7e^{12}}, \frac{35}{661}\sqrt{17e^{14}} + \frac{7}{661}\sqrt{123e^{35}},$ $\frac{7}{661}\sqrt{47e^{27}} + \frac{7}{661}\sqrt{466e^{36}}$	$(-\frac{112}{661}, \frac{77}{661}, \frac{14}{661}, \frac{91}{661}, -\frac{35}{661}, \frac{28}{661}, \frac{35}{661}, \frac{21}{661}, \frac{42}{661})$ $+ \frac{7}{661}\sqrt{282e^3} \otimes e_5 + \frac{7}{661}\sqrt{433e^6} \otimes e_8 + \frac{7}{661}\sqrt{518e^4} \otimes e_9$	{123467, 1346, 2569, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{28}{661}\sqrt{7e^{12}}, \frac{35}{661}\sqrt{17e^{14}} + \frac{7}{661}\sqrt{123e^{35}},$ $\frac{7}{661}\sqrt{47e^{27}} + \frac{7}{661}\sqrt{466e^{36}}$	$(-\frac{112}{661}, \frac{77}{661}, \frac{14}{661}, \frac{91}{661}, -\frac{35}{661}, \frac{28}{661}, -\frac{35}{661}, -\frac{21}{661}, \frac{42}{661})$ $+ \frac{7}{661}\sqrt{282e^3} \otimes e_5 + \frac{7}{661}\sqrt{433e^6} \otimes e_8 - \frac{7}{661}\sqrt{518e^4} \otimes e_9$	{123467, 1346, 2569, 5679}
931:34	$0, 0, 0, 0, 0, 0, \frac{8}{337}\sqrt{374e^{12}}, \frac{4}{1011}\sqrt{6630e^{14}} + \frac{16}{1011}\sqrt{935e^{35}},$ $\frac{20}{1011}\sqrt{510e^{27}} + \frac{4}{1011}\sqrt{5270e^{36}}$	$(\frac{132}{337}, -\frac{260}{1011}, -\frac{172}{1011}, -\frac{148}{1011}, \frac{140}{1011}, \frac{16}{337}, \frac{136}{1011}, \frac{248}{1011}, -\frac{124}{1011})$ $+ \frac{28}{1011}\sqrt{714e^5} \otimes e_9 + \frac{8}{1011}\sqrt{6307e^1} \otimes e_4$	{1269, 1679, 234567, 3456}
931:34	$0, 0, 0, 0, 0, 0, \frac{56}{2581}\sqrt{14e^{12}}, \frac{7}{2581}\sqrt{57e^{14}} + \frac{7}{2581}\sqrt{1906e^{35}},$ $\frac{7}{2581}\sqrt{1553e^{27}} + \frac{7}{2581}\sqrt{499e^{36}}$	$(-\frac{7}{89}, \frac{91}{2581}, \frac{14}{2581}, \frac{245}{2581}, \frac{28}{2581}, -\frac{35}{2581}, -\frac{112}{2581}, \frac{42}{2581}, -\frac{21}{2581})$ $+ \frac{7}{2581}\sqrt{1002e^3} \otimes e_6 + \frac{7}{2581}\sqrt{1529e^5} \otimes e_9 + \frac{7}{2581}\sqrt{2198e^2} \otimes e_8$	{23457, 568}
931:34	$0, 0, 0, 0, 0, 0, \frac{2}{4225}\sqrt{459969e^{12}}, \frac{2}{4225}\sqrt{55709e^{14}} + \frac{4}{4225}\sqrt{202130e^{35}},$ $\frac{4}{4225}\sqrt{152830e^{27}} + \frac{4}{4225}\sqrt{99586e^{36}}$	$(-\frac{118}{845}, \frac{739}{4225}, \frac{937}{4225}, \frac{343}{4225}, -\frac{1184}{4225}, -\frac{49}{4225}, \frac{149}{4225}, -\frac{19}{325}, \frac{888}{4225})$ $+ \frac{2}{4225}\sqrt{647309e^3} \otimes e_6 + \frac{4}{4225}\sqrt{302702e^2} \otimes e_8$	{2357, 267, 348, 4568}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{210e^{12}}, \frac{1}{81}\sqrt{1190e^{14}} + \frac{1}{81}\sqrt{70e^{35}},$ $\frac{7}{81}\sqrt{10e^{27}} + \frac{1}{81}\sqrt{2030e^{36}}$	$(-\frac{2}{27}, \frac{2}{9}, \frac{10}{81}, -\frac{1}{9}, -\frac{25}{81}, \frac{20}{81}, \frac{4}{27}, -\frac{5}{27}, \frac{10}{27})$ $+ \frac{1}{81}\sqrt{2870e^6} \otimes e_8 + \frac{8}{81}\sqrt{35e^3} \otimes e_5$	{123789, 1389, 2458, 4578}
931:34	$0, 0, 0, 0, 0, 0, \frac{3}{1409}\sqrt{17710e^{12}}, \frac{2}{1409}\sqrt{100947e^{14}} + \frac{46}{1409}\sqrt{231e^{35}},$ $\frac{10}{1409}\sqrt{3542e^{27}} + \frac{3}{1409}\sqrt{216062e^{36}}$	$(\frac{90}{1409}, \frac{304}{1409}, \frac{998}{1409}, \frac{135}{1409}, -\frac{773}{1409}, -\frac{300}{1409}, \frac{394}{1409}, \frac{225}{1409}, \frac{698}{1409})$ $+ \frac{4}{1409}\sqrt{256795e^3} \otimes e_5$	{12346, 1245, 13467, 1457, 2379, 25679, 39, 569}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{42e^{12}}, \frac{7}{23}\sqrt{6e^{14}} + \frac{3}{23}\sqrt{14e^{35}},$ $\frac{1}{23}\sqrt{42e^{27}} + \frac{7}{23}\sqrt{6e^{36}}$	$(-\frac{2}{23}, \frac{6}{23}, -\frac{6}{23}, -\frac{3}{23}, \frac{1}{23}, \frac{16}{23}, \frac{4}{23}, -\frac{5}{23}, \frac{10}{23})$ $+ \frac{1}{23}\sqrt{798e^6} \otimes e_8$	{123789, 124679, 1389, 1469, 2356, 2458, 3567, 4578}
931:34	$0, 0, 0, 0, 0, 0, \frac{12}{1151}\sqrt{266e^{12}}, \frac{18}{1151}\sqrt{2e^{14}} + \frac{12}{1151}\sqrt{354e^{35}},$ $\frac{78}{1151}\sqrt{158e^{27}} + \frac{78}{1151}\sqrt{2e^{36}}$	$(\frac{6}{1151}, \frac{12}{1151}, -\frac{162}{1151}, -\frac{66}{1151}, \frac{102}{1151}, \frac{192}{1151}, \frac{18}{1151}, -\frac{60}{1151}, \frac{30}{1151})$ $+ \frac{12}{1151}\sqrt{526e^2} \otimes e_8 + \frac{156}{1151}e^1 \otimes e_4 + \frac{6}{1151}\sqrt{1394e^5} \otimes e_9$	{136789, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{1521}\sqrt{685174e^{12}}, \frac{2}{1521}\sqrt{66381e^{14}} + \frac{10}{1521}\sqrt{8393e^{35}},$ $\frac{8}{1521}\sqrt{14497e^{27}} + \frac{1}{1521}\sqrt{462378e^{36}}$	$(-\frac{374}{1521}, \frac{464}{1521}, \frac{2}{1521}, \frac{25}{507}, -\frac{301}{1521}, \frac{184}{507}, \frac{10}{169}, -\frac{23}{117}, \frac{554}{1521})$ $+ \frac{4}{1521}\sqrt{121317e^2} \otimes e_8$	{1234569, 1249, 136789, 15789, 2357, 267, 348, 4568}
931:34	$0, 0, 0, 0, 0, 0, \frac{1}{2061}\sqrt{728422e^{12}}, \frac{2}{2061}\sqrt{21489e^{14}} + \frac{4}{2061}\sqrt{38570e^{35}},$ $\frac{2061}{2061}\sqrt{161443e^{27}} + \frac{1}{2061}\sqrt{333906e^{36}}$	$(\frac{104}{2061}, \frac{208}{2061}, -\frac{20}{2061}, -\frac{149}{687}, -\frac{323}{2061}, \frac{60}{229}, \frac{104}{687}, -\frac{343}{2061}, \frac{520}{2061})$ $+ \frac{2}{2061}\sqrt{166953e^1} \otimes e_4 + \frac{58}{2061}\sqrt{399e^2} \otimes e_8$	{136789, 15789, 348, 4568}
931:35	$0, 0, 0, 0, 0, 0, \frac{4}{777}\sqrt{3953e^{12}},$ $\frac{10}{259}\sqrt{67e^{13}} + \frac{2}{777}\sqrt{3886e^{24}} + \frac{4}{777}\sqrt{3953e^{56}}, \frac{2}{777}\sqrt{22378e^{17}}$	$(\frac{80}{777}, -\frac{5}{37}, -\frac{18}{259}, \frac{131}{777}, \frac{9}{37}, -\frac{163}{777}, -\frac{25}{777}, \frac{26}{777}, \frac{55}{777})$ $+ \frac{8}{777}\sqrt{1474e^1} \otimes e_3 + \frac{8}{777}\sqrt{1474e^5} \otimes e_9$	{129, 14567, 2379, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{44}{361}\sqrt{15e^{12}},$ $\frac{22}{361}\sqrt{34e^{13}} + \frac{22}{1083}\sqrt{183e^{24}} + \frac{22}{1083}\sqrt{87e^{56}}, \frac{88}{1083}\sqrt{33e^{17}}$	$(-\frac{110}{361}, \frac{154}{361}, \frac{176}{361}, -\frac{88}{361}, \frac{33}{361}, \frac{33}{361}, \frac{44}{361}, \frac{66}{361}, -\frac{66}{361})$ $+ \frac{22}{1083}\sqrt{1506e^3} \otimes e_9 + \frac{22}{361}\sqrt{151e^2} \otimes e_4$	{134567, 1347, 25679, 279}
931:35	$0, 0, 0, 0, 0, 0, \frac{4}{317}\sqrt{4445e^{12}},$ $\frac{2}{317}\sqrt{10795e^{13}} + \frac{6}{317}\sqrt{254e^{24}} + \frac{4}{317}\sqrt{1651e^{56}}, \frac{2}{317}\sqrt{17018e^{17}}$	$(\frac{128}{317}, -\frac{69}{317}, -\frac{126}{317}, \frac{71}{317}, \frac{1}{317}, \frac{1}{317}, \frac{59}{317}, \frac{2}{317}, \frac{187}{317})$ $+ \frac{4}{317}\sqrt{8382e^1} \otimes e_3$	{12569, 129, 14567, 147, 235679, 2379, 34, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{4}{317}\sqrt{1651e^{12}},$ $\frac{2}{317}\sqrt{10795e^{13}} + \frac{6}{317}\sqrt{254e^{24}} + \frac{4}{317}\sqrt{4445e^{56}}, \frac{2}{317}\sqrt{17018e^{17}}$	$(-\frac{48}{317}, \frac{19}{317}, \frac{138}{317}, \frac{71}{317}, \frac{177}{317}, \frac{87}{317}, \frac{29}{317}, \frac{90}{317}, -\frac{77}{317})$ $+ \frac{4}{317}\sqrt{8382e^5} \otimes e_9$	{1234689, 129, 13578, 14567, 2379, 246789, 3456, 58}
931:35	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{489e^{12}}, \frac{1}{102}\sqrt{163e^{13}} + \frac{1}{102}\sqrt{978e^{24}} + \frac{1}{51}\sqrt{489e^{56}},$ $\frac{1}{102}\sqrt{2282e^{17}}$	$(\frac{4}{51}, \frac{23}{204}, \frac{7}{34}, \frac{35}{204}, \frac{16}{17}, -\frac{67}{102}, \frac{13}{68}, \frac{29}{102}, \frac{55}{204})$ $+ \frac{163}{102}e^5 \otimes e_6$	{123589, 123689, 134578, 134678, 25789, 26789, 458, 468}
931:35	$0, 0, 0, 0, 0, 0, \frac{2}{137}\sqrt{310e^{12}}, \frac{2}{137}\sqrt{2945e^{13}} + \frac{2}{137}\sqrt{155e^{24}} + \frac{2}{137}\sqrt{310e^{56}},$ $\frac{1}{137}\sqrt{10230e^{17}}$	$(-\frac{43}{137}, \frac{30}{137}, \frac{99}{137}, \frac{26}{137}, \frac{28}{137}, \frac{28}{137}, -\frac{13}{137}, \frac{56}{137}, -\frac{56}{137})$ $+ \frac{1}{137}\sqrt{35030e^3} \otimes e_9$	{12357, 15689, 189, 234568, 2348, 4579}
931:35	$0, 0, 0, 0, 0, 0, \frac{4}{429}\sqrt{310e^{12}}, \frac{4}{429}\sqrt{2945e^{13}} + \frac{4}{429}\sqrt{155e^{24}} + \frac{4}{429}\sqrt{310e^{56}},$ $\frac{2}{429}\sqrt{10230e^{17}}$	$(-\frac{86}{429}, \frac{20}{143}, \frac{6}{13}, \frac{4}{33}, \frac{211}{429}, -\frac{3}{13}, -\frac{2}{33}, \frac{112}{429}, -\frac{112}{429})$ $+ \frac{2}{429}\sqrt{35030e^3} \otimes e_9 + \frac{310}{429}e^5 \otimes e_6$	{12357, 12367, 4579, 4679}
931:35	$0, 0, 0, 0, 0, 0, \frac{2}{295}\sqrt{267e^{12}}, \frac{2}{295}\sqrt{3827e^{13}} + \frac{2}{295}\sqrt{7565e^{24}} + \frac{2}{295}\sqrt{267e^{56}},$ $\frac{2}{295}\sqrt{7387e^{17}}$	$(-\frac{4}{295}, -\frac{49}{295}, \frac{76}{295}, \frac{121}{295}, \frac{25}{59}, -\frac{53}{295}, -\frac{53}{295}, \frac{72}{295}, -\frac{57}{295})$ $+ \frac{178}{295}e^5 \otimes e_6 + \frac{2}{295}\sqrt{15397e^4} \otimes e_9$	{12457, 12467, 159, 169, 2345, 2346, 3579, 3679}
931:35	$0, 0, 0, 0, 0, 0, \frac{14}{381}\sqrt{174e^{12}}, \frac{2}{381}\sqrt{7395e^{13}} + \frac{2}{127}\sqrt{290e^{24}} + \frac{4}{127}\sqrt{290e^{56}},$ $\frac{2}{381}\sqrt{9570e^{17}}$	$(-\frac{80}{381}, \frac{37}{127}, \frac{128}{381}, -\frac{21}{127}, \frac{125}{381}, -\frac{77}{381}, \frac{31}{381}, \frac{16}{127}, -\frac{49}{381})$ $+ \frac{2}{381}\sqrt{17574e^5} \otimes e_9 + \frac{4}{381}\sqrt{2958e^2} \otimes e_4$	{129, 14567, 2379, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{2}{295}\sqrt{267e^{12}}, \frac{2}{295}\sqrt{3827e^{13}} + \frac{2}{295}\sqrt{7565e^{24}} + \frac{2}{295}\sqrt{267e^{56}},$ $\frac{2}{295}\sqrt{7387e^{17}}$	$(-\frac{4}{295}, -\frac{49}{295}, \frac{76}{295}, \frac{121}{295}, \frac{25}{59}, -\frac{53}{295}, -\frac{53}{295}, \frac{72}{295}, -\frac{57}{295})$ $- \frac{178}{295}e^5 \otimes e_6 + \frac{2}{295}\sqrt{15397e^4} \otimes e_9$	{12457, 12467, 159, 169, 2345, 2346, 3579, 3679}
931:35	$0, 0, 0, 0, 0, 0, \frac{1}{103}\sqrt{267e^{12}}, \frac{1}{103}\sqrt{3827e^{13}} + \frac{1}{103}\sqrt{7565e^{24}} + \frac{1}{103}\sqrt{267e^{56}},$ $\frac{1}{103}\sqrt{7387e^{17}}$	$(-\frac{2}{103}, -\frac{49}{206}, \frac{38}{103}, \frac{121}{206}, \frac{18}{103}, \frac{18}{103}, -\frac{53}{206}, \frac{36}{103}, -\frac{57}{206})$ $+ \frac{1}{103}\sqrt{15397e^4} \otimes e_9$	{12457, 159, 2345, 3579}
931:35	$0, 0, 0, 0, 0, 0, \frac{78}{2257}\sqrt{42e^{12}},$ $\frac{65}{2257}\sqrt{47e^{13}} + \frac{13}{2257}\sqrt{381e^{24}} + \frac{13}{2257}\sqrt{1142e^{56}}, \frac{26}{2257}\sqrt{397e^{17}}$	$(\frac{65}{2257}, \frac{65}{2257}, -\frac{104}{2257}, -\frac{104}{2257}, \frac{364}{2257}, -\frac{403}{2257}, \frac{130}{2257}, -\frac{39}{2257}, \frac{195}{2257})$ $+ \frac{13}{2257}\sqrt{1534e^5} \otimes e_9 + \frac{39}{2257}\sqrt{191e^1} \otimes e_3 + \frac{65}{2257}\sqrt{37e^2} \otimes e_4$	{129, 14567, 2379, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{78}{2257}\sqrt{42e^{12}},$ $\frac{65}{2257}\sqrt{47e^{13}} + \frac{13}{2257}\sqrt{381e^{24}} + \frac{13}{2257}\sqrt{1142e^{56}}, \frac{26}{2257}\sqrt{397e^{17}}$	$(\frac{65}{2257}, \frac{65}{2257}, -\frac{104}{2257}, -\frac{104}{2257}, \frac{364}{2257}, -\frac{403}{2257}, \frac{130}{2257}, -\frac{39}{2257}, \frac{195}{2257})$ $+ \frac{13}{2257}\sqrt{1534e^5} \otimes e_9 + \frac{39}{2257}\sqrt{191e^1} \otimes e_3 - \frac{65}{2257}\sqrt{37e^2} \otimes e_4$	{129, 14567, 2379, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{390}{1033}\sqrt{2e^{12}},$ $\frac{26}{1033}\sqrt{231e^{13}} + \frac{26}{1033}\sqrt{86e^{24}} + \frac{26}{1033}\sqrt{139e^{56}}, \frac{26}{1033}\sqrt{290e^{17}}$	$(\frac{130}{1033}, \frac{130}{1033}, -\frac{208}{1033}, -\frac{208}{1033}, -\frac{39}{1033}, -\frac{39}{1033}, \frac{260}{1033}, -\frac{78}{1033}, \frac{390}{1033})$ $+ \frac{182}{1033}\sqrt{11e^1} \otimes e_3 + \frac{26}{1033}\sqrt{394e^2} \otimes e_4$	{12569, 129, 14567, 147, 235679, 2379, 34, 3456}
931:35	$0, 0, 0, 0, 0, 0, \frac{390}{1033}\sqrt{2e^{12}},$ $\frac{26}{1033}\sqrt{231e^{13}} + \frac{26}{1033}\sqrt{86e^{24}} + \frac{26}{1033}\sqrt{139e^{56}}, \frac{26}{1033}\sqrt{290e^{17}}$	$(\frac{130}{1033}, \frac{130}{1033}, -\frac{208}{1033}, -\frac{208}{1033}, -\frac{39}{1033}, -\frac{39}{1033}, \frac{260}{1033}, -\frac{78}{1033}, \frac{390}{1033})$ $+ \frac{182}{1033}\sqrt{11e^1} \otimes e_3 - \frac{26}{1033}\sqrt{394e^2} \otimes e_4$	{12569, 129, 14567, 147, 235679, 2379, 34, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:35	$0, 0, 0, 0, 0, 0, \frac{2}{311}\sqrt{23746}e^{12},$ $\frac{1}{311}\sqrt{29491}e^{13} + \frac{3}{311}\sqrt{1915}e^{24} + \frac{1}{311}\sqrt{30257}e^{56}, \frac{8}{311}\sqrt{383}e^{17}$	$(-\frac{60}{311}, \frac{419}{622}, \frac{96}{311}, -\frac{347}{622}, \frac{18}{311}, \frac{18}{311}, \frac{299}{622}, \frac{36}{311}, \frac{179}{622})$ $+ \frac{13}{311}\sqrt{1149}e^2 \otimes e_4$	{12569, 129, 14567, 147, 235679, 2379, 34, 3456}
931:36	$0, 0, 0, 0, 0, 0, \frac{14}{145}\sqrt{7}e^{12}, \frac{14}{145}\sqrt{3}e^{34} + \frac{28}{145}\sqrt{3}e^{56},$ $\frac{42}{145}\sqrt{2}e^{13} + \frac{7}{145}\sqrt{15}e^{27}$	$(\frac{28}{145}, \frac{7}{145}, \frac{14}{145}, -\frac{7}{29}, \frac{14}{145}, -\frac{7}{29}, \frac{7}{145}, -\frac{21}{145}, \frac{42}{145})$ $+ \frac{49}{145}e^5 \otimes e_6 + \frac{7}{145}\sqrt{129}e^1 \otimes e_8 + \frac{7}{145}\sqrt{85}e^3 \otimes e_4$	{235789, 236789, 3589, 3689}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{249}e^{12}, \frac{2}{181}\sqrt{4565}e^{34} + \frac{1}{181}\sqrt{2490}e^{56},$ $\frac{1}{181}\sqrt{7802}e^{13} + \frac{1}{181}\sqrt{17430}e^{27}$	$(\frac{6}{181}, -\frac{23}{181}, -\frac{46}{181}, \frac{126}{181}, \frac{40}{181}, \frac{40}{181}, -\frac{17}{181}, \frac{80}{181}, -\frac{40}{181})$ $+ \frac{3}{181}\sqrt{5478}e^4 \otimes e_9$	{1259, 1579, 245678, 2478, 4568, 48}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{1415}\sqrt{181382}e^{12}, \frac{1}{1415}\sqrt{564526}e^{34} + \frac{2}{1415}\sqrt{287358}e^{56},$ $\frac{1}{1415}\sqrt{1000658}e^{13} + \frac{2}{1415}\sqrt{156926}e^{27}$	$(-\frac{178}{1415}, \frac{1}{283}, \frac{2}{283}, \frac{501}{1415}, \frac{851}{1415}, -\frac{68}{283}, -\frac{173}{1415}, \frac{511}{1415}, -\frac{168}{1415})$ $+ \frac{1}{1415}\sqrt{2427258}e^5 \otimes e_9$	{1234578, 123567, 13458, 1356, 234689, 239, 346789, 379}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{487}\sqrt{7998}e^{12}, \frac{5}{487}\sqrt{93}e^{34} + \frac{3}{487}\sqrt{3441}e^{56},$ $\frac{1}{487}\sqrt{25482}e^{13} + \frac{1}{487}\sqrt{8463}e^{27}$	$(\frac{86}{487}, -\frac{36}{487}, -\frac{72}{487}, \frac{65}{487}, \frac{107}{487}, -\frac{114}{487}, \frac{50}{487}, -\frac{7}{487}, \frac{14}{487})$ $+ \frac{1}{487}\sqrt{39711}e^1 \otimes e_8 + \frac{1}{487}\sqrt{41106}e^5 \otimes e_9$	{1249, 1479, 2578, 58}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{493}\sqrt{40762}e^{12}, \frac{14}{493}\sqrt{178}e^{34} + \frac{3}{493}\sqrt{1958}e^{56},$ $\frac{1}{493}\sqrt{8633}e^{13} + \frac{1}{493}\sqrt{40762}e^{27}$	$(\frac{37}{493}, \frac{35}{493}, \frac{70}{493}, -\frac{124}{493}, -\frac{27}{493}, -\frac{27}{493}, \frac{72}{493}, -\frac{54}{493}, \frac{107}{493})$ $+ \frac{1}{493}\sqrt{74938}e^2 \otimes e_8$	{1234569, 12349, 135789, 234567, 2347, 358}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{12}\sqrt{15}e^{34} + \frac{1}{24}\sqrt{30}e^{56},$ $\frac{1}{24}\sqrt{42}e^{13} + \frac{1}{24}\sqrt{30}e^{27}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{30}e^1 \otimes e_8 - \frac{1}{24}\sqrt{102}e^4 \otimes e_9 + \frac{1}{4}e^5 \otimes e_6$	{24578, 24678, 458, 468}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{4}e^{12}, \frac{1}{12}\sqrt{15}e^{34} + \frac{1}{24}\sqrt{30}e^{56},$ $\frac{1}{24}\sqrt{42}e^{13} + \frac{1}{24}\sqrt{30}e^{27}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{30}e^1 \otimes e_8 + \frac{1}{24}\sqrt{102}e^4 \otimes e_9 + \frac{1}{4}e^5 \otimes e_6$	{24578, 24678, 458, 468}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{215}\sqrt{402}e^{12}, \frac{1}{215}\sqrt{1254}e^{34} + \frac{3}{215}\sqrt{118}e^{56},$ $\frac{1}{215}\sqrt{1302}e^{13} + \frac{1}{215}\sqrt{1914}e^{27}$	$(\frac{12}{215}, 0, 0, -\frac{9}{215}, \frac{21}{215}, -\frac{6}{215}, \frac{12}{215}, -\frac{9}{215}, \frac{12}{215})$ $+ \frac{1}{215}\sqrt{570}e^3 \otimes e_4 + \frac{2}{43}\sqrt{30}e^2 \otimes e_8 + \frac{3}{215}\sqrt{102}e^5 \otimes e_9$	{12349, 234567}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{249}e^{12}, \frac{1}{132}\sqrt{4565}e^{34} + \frac{1}{264}\sqrt{2490}e^{56},$ $\frac{1}{264}\sqrt{7802}e^{13} + \frac{1}{264}\sqrt{17430}e^{27}$	$(\frac{1}{44}, -\frac{23}{264}, -\frac{23}{132}, \frac{21}{44}, \frac{41}{88}, -\frac{43}{264}, -\frac{17}{264}, \frac{10}{33}, -\frac{5}{33})$ $+ \frac{1}{88}\sqrt{5478}e^4 \otimes e_9 + \frac{1}{132}e^5 \otimes e_6$	{1259, 1269, 1579, 1679}
931:36	$0, 0, 0, 0, 0, 0, \frac{4}{231}\sqrt{690}e^{12}, \frac{4}{231}\sqrt{506}e^{34} + \frac{8}{231}\sqrt{138}e^{56},$ $\frac{4}{231}\sqrt{23}e^{13} + \frac{4}{231}\sqrt{690}e^{27}$	$(\frac{10}{77}, \frac{17}{231}, \frac{34}{231}, \frac{12}{77}, \frac{73}{77}, -\frac{149}{231}, \frac{47}{231}, \frac{10}{33}, \frac{64}{231})$ $+ \frac{368}{231}e^5 \otimes e_6$	{124589, 124689, 145789, 146789, 24578, 24678, 458, 468}
931:36	$0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{685}e^{12}, \frac{6}{221}\sqrt{411}e^{34} + \frac{2}{221}\sqrt{2877}e^{56},$ $\frac{4}{221}\sqrt{822}e^{13} + \frac{4}{221}\sqrt{685}e^{27}$	$(-\frac{40}{221}, \frac{76}{221}, \frac{152}{221}, -\frac{122}{221}, \frac{15}{221}, \frac{15}{221}, \frac{36}{221}, \frac{30}{221}, \frac{112}{221})$ $+ \frac{2}{221}\sqrt{25345}e^3 \otimes e_4$	{1245679, 12479, 14569, 149, 24, 2456, 4567, 47}
931:36	$0, 0, 0, 0, 0, 0, \frac{1}{437}\sqrt{282}e^{12}, \frac{2}{437}\sqrt{82}e^{34} + \frac{1}{437}\sqrt{102}e^{56},$ $\frac{2}{437}\sqrt{53}e^{13} + \frac{1}{437}\sqrt{362}e^{27}$	$(\frac{13}{437}, -\frac{5}{437}, -\frac{10}{437}, \frac{4}{437}, -\frac{3}{437}, -\frac{3}{437}, \frac{8}{437}, -\frac{6}{437}, \frac{3}{437})$ $+ \frac{1}{437}\sqrt{538}e^2 \otimes e_8 + \frac{4}{437}\sqrt{15}e^4 \otimes e_9$	{135789, 234567, 2347}
931:36	$0, 0, 0, 0, 0, 0, \frac{14}{145}\sqrt{7}e^{12}, \frac{14}{145}\sqrt{3}e^{34} + \frac{28}{145}\sqrt{3}e^{56},$ $\frac{42}{145}\sqrt{2}e^{13} + \frac{7}{145}\sqrt{15}e^{27}$	$(\frac{28}{145}, \frac{7}{145}, \frac{14}{145}, -\frac{7}{29}, \frac{14}{145}, -\frac{7}{29}, \frac{7}{145}, -\frac{21}{145}, \frac{42}{145})$ $- \frac{49}{145}e^5 \otimes e_6 + \frac{7}{145}\sqrt{129}e^1 \otimes e_8 + \frac{7}{145}\sqrt{85}e^3 \otimes e_4$	{235789, 236789, 3589, 3689}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{2485}\sqrt{54677}e^{12}, \frac{4}{2485}\sqrt{9709}e^{34} + \frac{2}{2485}\sqrt{47523}e^{56},$ $\frac{2}{2485}\sqrt{31463}e^{13} + \frac{36}{2485}\sqrt{219}e^{27}$	$(-\frac{27}{2485}, \frac{19}{497}, \frac{38}{497}, -\frac{241}{2485}, \frac{309}{2485}, -\frac{72}{497}, \frac{68}{2485}, -\frac{51}{2485}, \frac{163}{2485})$ $+ \frac{2}{2485}\sqrt{48837}e^5 \otimes e_9 + \frac{2}{497}\sqrt{4453}e^2 \otimes e_8$	{12349, 136789, 234567, 358}
931:36	$0, 0, 0, 0, 0, 0, \frac{14}{541}\sqrt{7}e^{12}, \frac{35}{541}\sqrt{3}e^{34} + \frac{7}{541}\sqrt{309}e^{56},$ $\frac{7}{541}\sqrt{362}e^{13} + \frac{7}{541}\sqrt{43}e^{27}$	$(\frac{28}{541}, \frac{7}{541}, \frac{14}{541}, -\frac{35}{541}, \frac{91}{541}, -\frac{112}{541}, \frac{35}{541}, -\frac{21}{541}, \frac{42}{541})$ $+ \frac{133}{541}e^1 \otimes e_8 + \frac{7}{541}\sqrt{230}e^3 \otimes e_4 + \frac{7}{541}\sqrt{406}e^5 \otimes e_9$	{1249, 1479}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{2045}\sqrt{74037}e^{12}, \frac{1}{2045}\sqrt{548274}e^{34} + \frac{9}{2045}\sqrt{9338}e^{56},$ $\frac{1}{2045}\sqrt{1124562}e^{13} + \frac{1}{2045}\sqrt{198766}e^{27}$	$(-\frac{444}{2045}, \frac{50}{409}, \frac{100}{409}, -\frac{167}{2045}, \frac{723}{2045}, -\frac{78}{409}, -\frac{194}{2045}, \frac{333}{2045}, \frac{56}{2045})$ $+ \frac{1}{2045}\sqrt{1007170}e^3 \otimes e_4 + \frac{1}{2045}\sqrt{1484742}e^5 \otimes e_9$	{123567, 1356, 239, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:36	$0, 0, 0, 0, 0, 0, \frac{28}{241}\sqrt{7}e^{12}, \frac{28}{241}\sqrt{3}e^{34} + \frac{56}{241}\sqrt{3}e^{56},$ $\frac{84}{241}\sqrt{2}e^{13} + \frac{14}{241}\sqrt{15}e^{27}$	$(\frac{56}{241}, \frac{14}{241}, \frac{28}{241}, -\frac{70}{241}, -\frac{21}{241}, -\frac{21}{241}, \frac{70}{241}, -\frac{42}{241}, \frac{84}{241})$ $+ \frac{14}{241}\sqrt{129}e^1 \otimes e_8 + \frac{14}{241}\sqrt{85}e^3 \otimes e_4$	{235789, 3589}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{2}{21}\sqrt{15}e^{34} + \frac{1}{21}\sqrt{30}e^{56},$ $\frac{1}{21}\sqrt{42}e^{13} + \frac{1}{21}\sqrt{30}e^{27}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, 0, \frac{1}{7}, 0, 0)$ $- \frac{1}{21}\sqrt{102}e^4 \otimes e_9 + \frac{2}{21}\sqrt{30}e^1 \otimes e_8$	{12569, 129, 15679, 179, 24578, 458}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{2}{21}\sqrt{15}e^{34} + \frac{1}{21}\sqrt{30}e^{56},$ $\frac{1}{21}\sqrt{42}e^{13} + \frac{1}{21}\sqrt{30}e^{27}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, 0, \frac{1}{7}, 0, 0)$ $+ \frac{1}{21}\sqrt{102}e^4 \otimes e_9 + \frac{2}{21}\sqrt{30}e^1 \otimes e_8$	{12569, 129, 15679, 179, 24578, 458}
931:36	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{22}e^{12}, \frac{2}{47}\sqrt{77}e^{34} + \frac{2}{47}\sqrt{33}e^{56},$ $\frac{4}{47}\sqrt{22}e^{13} + \frac{4}{47}\sqrt{22}e^{27}$	$(\frac{8}{47}, 0, 0, -\frac{6}{47}, -\frac{3}{47}, -\frac{3}{47}, \frac{8}{47}, -\frac{6}{47}, \frac{8}{47})$ $+ \frac{2}{47}\sqrt{35}e^3 \otimes e_4 + \frac{4}{47}\sqrt{38}e^2 \otimes e_8$	{1234569, 12349, 234567, 2347}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{875}\sqrt{282}e^{12}, \frac{4}{875}\sqrt{82}e^{34} + \frac{2}{875}\sqrt{102}e^{56},$ $\frac{4}{875}\sqrt{53}e^{13} + \frac{4}{875}\sqrt{362}e^{27}$	$(\frac{26}{875}, -\frac{2}{175}, -\frac{4}{175}, \frac{8}{875}, -\frac{1}{175}, -\frac{1}{125}, \frac{16}{875}, -\frac{12}{875}, \frac{6}{875})$ $+ \frac{2}{875}\sqrt{538}e^2 \otimes e_8 + \frac{2}{875}e^5 \otimes e_6 + \frac{8}{875}\sqrt{15}e^4 \otimes e_9$	{135789, 136789}
931:36	$0, 0, 0, 0, 0, 0, \frac{2}{1075}\sqrt{40762}e^{12}, \frac{28}{1075}\sqrt{178}e^{34} + \frac{6}{1075}\sqrt{1958}e^{56},$ $\frac{4}{1075}\sqrt{8633}e^{13} + \frac{2}{1075}\sqrt{40762}e^{27}$	$(\frac{74}{1075}, \frac{14}{215}, \frac{28}{1075}, -\frac{248}{1075}, \frac{7}{215}, -\frac{143}{1075}, \frac{144}{1075}, -\frac{108}{1075}, \frac{214}{1075})$ $+ \frac{178}{1075}e^5 \otimes e_6 + \frac{2}{1075}\sqrt{74938}e^2 \otimes e_8$	{135789, 136789, 358, 368}
931:37	$0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{142}e^{12}, -\frac{4}{71}\sqrt{19}e^{34} + \frac{4}{71}\sqrt{19}e^{56},$ $\frac{8}{213}\sqrt{57}e^{17} + \frac{4}{213}\sqrt{129}e^{35} + \frac{4}{213}\sqrt{129}e^{46}$	$(\frac{28}{213}, -\frac{44}{213}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, -\frac{16}{213}, \frac{4}{71}, \frac{4}{71})$ $+ \frac{8}{213}\sqrt{93}e^1 \otimes e_8$	{1234569, 129, 1347, 235789, 368, 1234569, 129, 1347, 235789, 368}
931:37	$0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{142}e^{12}, \frac{4}{71}\sqrt{19}e^{34} + \frac{4}{71}\sqrt{19}e^{56},$ $\frac{8}{213}\sqrt{57}e^{17} + \frac{4}{213}\sqrt{129}e^{35} + \frac{4}{213}\sqrt{129}e^{46}$	$(\frac{28}{213}, -\frac{44}{213}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, -\frac{16}{213}, \frac{4}{71}, \frac{4}{71})$ $+ \frac{8}{213}\sqrt{93}e^1 \otimes e_8$	{1234569, 129, 1347, 235789, 368, 1234569, 129, 1347, 235789, 368}
931:37	$0, 0, 0, 0, 0, 0, \frac{2}{3}e^{12}, -\frac{2}{3}e^{34} + \frac{2}{3}e^{56},$ $\frac{1}{3}\sqrt{2}e^{17} + \frac{1}{3}\sqrt{2}e^{35} + \frac{1}{3}\sqrt{2}e^{46}$	$(-\frac{1}{3}, \frac{2}{3}, 0, 0, 0, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{3}\sqrt{10}e^2 \otimes e_8$	{1234569, 129, 13678, 2345679, 279, 368, 1234569, 129, 13678, 2345679, 279, 368}
931:37	$0, 0, 0, 0, 0, 0, \frac{2}{3}e^{12}, \frac{2}{3}e^{34} + \frac{2}{3}e^{56},$ $\frac{1}{3}\sqrt{2}e^{17} + \frac{1}{3}\sqrt{2}e^{35} + \frac{1}{3}\sqrt{2}e^{46}$	$(-\frac{1}{3}, \frac{2}{3}, 0, 0, 0, 0, \frac{1}{3}, 0, 0)$ $+ \frac{1}{3}\sqrt{10}e^2 \otimes e_8$	{1234569, 129, 13678, 2345679, 279, 368, 1234569, 129, 13678, 2345679, 279, 368}
931:37	$0, 0, 0, 0, 0, 0, \frac{16}{209}\sqrt{26}e^{12}, -\frac{16}{209}\sqrt{41}e^{34} + \frac{16}{209}\sqrt{41}e^{56},$ $\frac{32}{209}\sqrt{42}e^{17} + \frac{16}{209}\sqrt{43}e^{35} + \frac{16}{209}\sqrt{43}e^{46}$	$(\frac{112}{209}, -\frac{144}{209}, \frac{40}{209}, \frac{40}{209}, \frac{40}{209}, \frac{40}{209}, -\frac{32}{209}, \frac{80}{209}, \frac{80}{209})$ $+ \frac{32}{209}\sqrt{85}e^1 \otimes e_2$	{1347, 13678, 2345679, 235789, 279, 1347, 13678, 2345679, 235789, 279}
931:37	$0, 0, 0, 0, 0, 0, \frac{16}{209}\sqrt{26}e^{12}, \frac{16}{209}\sqrt{41}e^{34} + \frac{16}{209}\sqrt{41}e^{56},$ $\frac{32}{209}\sqrt{42}e^{17} + \frac{16}{209}\sqrt{43}e^{35} + \frac{16}{209}\sqrt{43}e^{46}$	$(\frac{112}{209}, -\frac{144}{209}, \frac{40}{209}, \frac{40}{209}, \frac{40}{209}, \frac{40}{209}, -\frac{32}{209}, \frac{80}{209}, \frac{80}{209})$ $+ \frac{32}{209}\sqrt{85}e^1 \otimes e_2$	{1347, 13678, 2345679, 235789, 279, 1347, 13678, 2345679, 235789, 279}
931:38	$0, 0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{6}{1123}\sqrt{24171}e^{13},$ $\frac{1}{1123}\sqrt{877062}e^{14} + \frac{2}{1123}\sqrt{3453}e^{27} + \frac{1}{1123}\sqrt{448890}e^{35}$	$(-\frac{394}{1123}, \frac{371}{1123}, -\frac{15}{1123}, \frac{742}{1123}, \frac{363}{1123}, \frac{168}{1123}, -\frac{23}{1123}, -\frac{409}{1123}, \frac{348}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^4 \otimes e_8$	{126789, 12789, 1689, 189, 2368, 238, 3678, 378}
931:38	$0, 0, 0, 0, 0, 0, \frac{23}{1625}\sqrt{391}e^{12}, \frac{368}{1625}\sqrt{3}e^{13},$ $\frac{184}{1625}\sqrt{10}e^{14} + \frac{46}{1625}\sqrt{53}e^{27} + \frac{46}{1625}\sqrt{43}e^{35}$	$(-\frac{391}{1625}, \frac{207}{1625}, \frac{276}{1625}, \frac{414}{1625}, -\frac{253}{1625}, \frac{552}{1625}, -\frac{184}{1625}, -\frac{23}{325}, \frac{23}{1625})$ $+ \frac{23}{1625}\sqrt{869}e^0 \otimes e_9 + \frac{23}{1625}\sqrt{913}e^3 \otimes e_5 + \frac{69}{1625}\sqrt{137}e^4 \otimes e_8$	{123467, 1346}
931:38	$0, 0, 0, 0, 0, 0, \frac{18}{53}e^{12}, \frac{3}{53}\sqrt{102}e^{13},$ $\frac{18}{53}e^{14} + \frac{3}{53}\sqrt{6}e^{27} + \frac{6}{53}\sqrt{3}e^{35}$	$(-\frac{12}{53}, \frac{12}{53}, \frac{9}{53}, \frac{24}{53}, \frac{3}{53}, -\frac{18}{53}, 0, -\frac{3}{53}, \frac{12}{53})$ $+ \frac{15}{53}\sqrt{6}e^4 \otimes e_8 + \frac{3}{53}\sqrt{138}e^3 \otimes e_6$	{1256789, 15689, 2358, 3578}
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{2989}\sqrt{231073}e^{12}, \frac{4}{2989}\sqrt{63155}e^{13},$ $\frac{4}{2989}\sqrt{165689}e^{14} + \frac{2}{2989}\sqrt{168661}e^{27} + \frac{2}{2989}\sqrt{42351}e^{35}$	$(-\frac{622}{2989}, \frac{383}{2989}, -\frac{2}{61}, \frac{766}{2989}, \frac{242}{2989}, \frac{1630}{2989}, -\frac{239}{2989}, -\frac{720}{2989}, \frac{144}{2989})$ $+ \frac{22}{2989}\sqrt{8173}e^6 \otimes e_9 + \frac{6}{2989}\sqrt{112193}e^4 \otimes e_8$	{1234567, 13456, 2459, 4579}
931:38	$0, 0, 0, 0, 0, 0, \frac{200}{3769}\sqrt{5}e^{12}, \frac{50}{3769}\sqrt{1110}e^{13},$ $\frac{50}{3769}\sqrt{1146}e^{14} + \frac{300}{3769}\sqrt{2}e^{27} + \frac{50}{3769}\sqrt{627}e^{35}$	$(-\frac{160}{3769}, \frac{455}{3769}, -\frac{180}{3769}, \frac{910}{3769}, \frac{930}{3769}, -\frac{1410}{3769}, \frac{295}{3769}, -\frac{340}{3769}, \frac{750}{3769})$ $+ \frac{50}{3769}\sqrt{1713}e^1 \otimes e_6 + \frac{50}{3769}\sqrt{1753}e^4 \otimes e_8$	{12789, 189, 2368, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:38	$0, 0, 0, 0, 0, 0, \frac{6}{707}\sqrt{721}e^{12}, \frac{27}{707}\sqrt{42}e^{13},$ $\frac{3}{707}\sqrt{2478}e^{14} + \frac{18}{707}\sqrt{91}e^{27} + \frac{6}{707}\sqrt{259}e^{35}$	$(\frac{39}{707}, -\frac{12}{707}, -\frac{114}{707}, -\frac{24}{707}, \frac{129}{707}, \frac{78}{707}, \frac{27}{707}, -\frac{75}{707}, \frac{15}{707})$ $+ \frac{3}{707}\sqrt{322}e^6 \otimes e_9 + \frac{3}{707}\sqrt{5222}e^2 \otimes e_8 + \frac{48}{707}\sqrt{14}e^1 \otimes e_4$	{24567, 3468}
931:38	$0, 0, 0, 0, 0, 0, \frac{11}{269}\sqrt{33}e^{12}, \frac{11}{1345}\sqrt{997}e^{13},$ $\frac{11}{1345}\sqrt{731}e^{14} + \frac{44}{1345}\sqrt{58}e^{27} + \frac{22}{1345}\sqrt{86}e^{35}$	$(\frac{77}{1345}, -\frac{22}{1345}, -\frac{44}{269}, -\frac{44}{1345}, \frac{253}{1345}, \frac{132}{1345}, \frac{11}{269}, -\frac{143}{1345}, \frac{33}{1345})$ $+ \frac{11}{1345}\sqrt{51}e^5 \otimes e_6 + \frac{22}{1345}\sqrt{258}e^1 \otimes e_4 + \frac{22}{1345}\sqrt{374}e^2 \otimes e_8$	{24567, 348}
931:38	$0, 0, 0, 0, 0, 0, \frac{4}{3609}\sqrt{46155}e^{12}, \frac{4}{3609}\sqrt{263355}e^{13},$ $\frac{2}{3609}\sqrt{313130}e^{14} + \frac{2}{3609}\sqrt{134845}e^{27} + \frac{2}{3609}\sqrt{391865}e^{35}$	$(\frac{136}{1203}, \frac{7}{3609}, \frac{124}{401}, \frac{14}{3609}, -\frac{694}{3609}, \frac{1402}{3609}, \frac{415}{3609}, \frac{508}{1203}, \frac{422}{3609})$ $+ \frac{2}{3609}\sqrt{1345735}e^3 \otimes e_5 + \frac{2}{3609}\sqrt{1594610}e^1 \otimes e_6$	{23678, 2567, 368, 56}
931:38	$0, 0, 0, 0, 0, 0, \frac{7}{1193}\sqrt{10726}e^{12}, \frac{2}{1193}\sqrt{167118}e^{13},$ $\frac{14}{1193}\sqrt{3287}e^{14} + \frac{2}{1193}\sqrt{12110}e^{27} + \frac{2}{1193}\sqrt{71449}e^{35}$	$(\frac{434}{1193}, -\frac{29}{1193}, \frac{50}{1193}, -\frac{58}{1193}, \frac{326}{1193}, -\frac{777}{1193}, \frac{405}{1193}, \frac{484}{1193}, \frac{376}{1193})$ $+ \frac{1}{1193}\sqrt{2385670}e^1 \otimes e_6$	{12359, 1289, 13579, 1789, 23678, 2567, 368, 56}
931:38	$0, 0, 0, 0, 0, 0, \frac{10}{2809}\sqrt{3478}e^{12}, \frac{40}{2809}\sqrt{777}e^{13},$ $\frac{20}{2809}\sqrt{2590}e^{14} + \frac{10}{2809}\sqrt{14837}e^{27} + \frac{10}{2809}\sqrt{8621}e^{35}$	$(-\frac{188}{2809}, \frac{27}{2809}, \frac{858}{2809}, \frac{54}{2809}, -\frac{992}{2809}, \frac{1716}{2809}, -\frac{161}{2809}, \frac{670}{2809}, -\frac{134}{2809})$ $+ \frac{10}{2809}\sqrt{40441}e^3 \otimes e_5 + \frac{10}{2809}\sqrt{51134}e^6 \otimes e_9$	{23489, 2459, 34789, 4579}
931:38	$0, 0, 0, 0, 0, 0, \frac{22}{557}\sqrt{39}e^{12}, \frac{55}{557}\sqrt{14}e^{13},$ $\frac{11}{557}\sqrt{170}e^{14} + \frac{86}{557}\sqrt{10}e^{27} + \frac{22}{557}\sqrt{23}e^{35}$	$(-\frac{121}{557}, \frac{66}{557}, \frac{66}{557}, \frac{132}{557}, -\frac{55}{557}, \frac{132}{557}, \frac{55}{557}, -\frac{55}{557}, \frac{11}{557})$ $+ \frac{11}{557}\sqrt{170}e^6 \otimes e_9 + \frac{11}{557}\sqrt{554}e^2 \otimes e_8 + \frac{22}{557}\sqrt{74}e^3 \otimes e_5$	{24567, 3468}
931:38	$0, 0, 0, 0, 0, 0, \frac{12}{59}\sqrt{17}e^{12}, \frac{1}{59}\sqrt{51}e^{13},$ $\frac{5}{59}\sqrt{51}e^{14} + \frac{12}{59}\sqrt{17}e^{27} + \frac{1}{59}\sqrt{51}e^{35}$	$(-\frac{3}{118}, \frac{11}{59}, \frac{21}{118}, \frac{22}{59}, \frac{10}{59}, -\frac{40}{59}, \frac{19}{118}, \frac{9}{59}, \frac{41}{118})$ $+ \frac{3}{59}\sqrt{561}e^2 \otimes e_6$	{1234589, 1249, 13456789, 14679, 2347, 24578, 346, 4568}
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{1033}\sqrt{23782}e^{12}, \frac{4}{1033}\sqrt{28083}e^{13},$ $\frac{2}{1033}\sqrt{19987}e^{14} + \frac{8}{1033}\sqrt{1518}e^{27} + \frac{6}{1033}\sqrt{3542}e^{35}$	$(-\frac{188}{1033}, \frac{81}{1033}, \frac{240}{1033}, \frac{162}{1033}, -\frac{266}{1033}, \frac{558}{1033}, -\frac{107}{1033}, \frac{52}{1033}, -\frac{26}{1033})$ $+ \frac{10}{1033}\sqrt{4807}e^3 \otimes e_5 + \frac{10}{1033}\sqrt{4807}e^6 \otimes e_8$	{12367, 12578, 136, 158}
931:38	$0, 0, 0, 0, 0, 0, \frac{20}{331}\sqrt{39}e^{12}, \frac{80}{331}\sqrt{6}e^{13},$ $\frac{90}{331}\sqrt{2}e^{14} + \frac{30}{331}\sqrt{3}e^{27} + \frac{10}{331}\sqrt{165}e^{35}$	$(-\frac{104}{331}, \frac{69}{331}, \frac{92}{331}, \frac{138}{331}, -\frac{58}{331}, \frac{26}{331}, \frac{35}{331}, -\frac{12}{331}, \frac{34}{331})$ $+ \frac{10}{331}\sqrt{417}e^3 \otimes e_5 + \frac{10}{331}\sqrt{498}e^4 \otimes e_8$	{123467, 12347, 134, 1346}
931:38	$0, 0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{6279}e^{12}, \frac{84}{3179}\sqrt{391}e^{13},$ $\frac{12}{3179}\sqrt{3634}e^{14} + \frac{12}{3179}\sqrt{437}e^{27} + \frac{12}{3179}\sqrt{5727}e^{35}$	$(\frac{546}{3179}, \frac{96}{3179}, -\frac{732}{3179}, \frac{192}{3179}, \frac{1470}{3179}, -\frac{1110}{3179}, \frac{642}{3179}, -\frac{186}{3179}, \frac{738}{3179})$ $+ \frac{24}{3179}\sqrt{8395}e^1 \otimes e_6 + \frac{444}{3179}\sqrt{23}e^5 \otimes e_8$	{12345, 1248, 13457, 1478, 2346789, 245679, 34689, 4569}
931:38	$0, 0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{6279}e^{12}, \frac{84}{3179}\sqrt{391}e^{13},$ $\frac{12}{3179}\sqrt{3634}e^{14} + \frac{12}{3179}\sqrt{437}e^{27} + \frac{12}{3179}\sqrt{5727}e^{35}$	$(\frac{546}{3179}, \frac{96}{3179}, -\frac{732}{3179}, \frac{192}{3179}, \frac{1470}{3179}, -\frac{1110}{3179}, \frac{642}{3179}, -\frac{186}{3179}, \frac{738}{3179})$ $+ \frac{24}{3179}\sqrt{8395}e^1 \otimes e_6 - \frac{444}{3179}\sqrt{23}e^5 \otimes e_8$	{12345, 1248, 13457, 1478, 2346789, 245679, 34689, 4569}
931:38	$0, 0, 0, 0, 0, 0, \frac{1}{223}\sqrt{8490}e^{12}, \frac{2}{223}\sqrt{1415}e^{13},$ $\frac{1}{223}\sqrt{51506}e^{14} + \frac{1}{223}\sqrt{8490}e^{27} + \frac{2}{223}\sqrt{1415}e^{35}$	$(-\frac{30}{223}, \frac{66}{223}, \frac{56}{223}, \frac{132}{223}, \frac{46}{223}, \frac{151}{223}, \frac{36}{223}, \frac{26}{223}, \frac{102}{223})$ $+ \frac{1}{223}\sqrt{105842}e^4 \otimes e_6$	{12356789, 12679, 135689, 169, 236, 2568, 367, 5678}
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{373}\sqrt{2914}e^{12}, \frac{10}{373}\sqrt{282}e^{13},$ $\frac{2}{373}\sqrt{3995}e^{14} + \frac{2}{373}\sqrt{6110}e^{27} + \frac{6}{373}\sqrt{282}e^{35}$	$(-\frac{94}{373}, \frac{59}{373}, \frac{59}{373}, \frac{118}{373}, -\frac{35}{373}, \frac{33}{373}, -\frac{35}{373}, -\frac{35}{373}, \frac{24}{373})$ $+ \frac{2}{373}\sqrt{10246}e^2 \otimes e_8 + \frac{2}{373}\sqrt{5734}e^3 \otimes e_5$	{24567, 2457, 3468, 348}
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{2609}\sqrt{301070}e^{12}, \frac{22}{2609}\sqrt{1610}e^{13},$ $\frac{14}{2609}\sqrt{1265}e^{14} + \frac{70}{2609}\sqrt{253}e^{27} + \frac{2}{2609}\sqrt{53130}e^{35}$	$(\frac{748}{2609}, -\frac{431}{2609}, -\frac{178}{2609}, -\frac{862}{2609}, \frac{64}{2609}, \frac{1496}{2609}, \frac{317}{2609}, \frac{570}{2609}, -\frac{114}{2609})$ $+ \frac{14}{2609}\sqrt{18285}e^1 \otimes e_4 + \frac{8}{2609}\sqrt{58765}e^6 \otimes e_9$	{1239, 12589, 1379, 15789}
931:38	$0, 0, 0, 0, 0, 0, \frac{24}{2849}\sqrt{1598}e^{12}, \frac{60}{2849}\sqrt{470}e^{13},$ $\frac{6}{2849}\sqrt{33699}e^{14} + \frac{6}{2849}\sqrt{40890}e^{27} + \frac{6}{2849}\sqrt{1034}e^{35}$	$(-\frac{542}{2849}, \frac{501}{2849}, \frac{197}{2849}, \frac{1002}{2849}, \frac{263}{2849}, -\frac{59}{2849}, -\frac{41}{2849}, -\frac{345}{2849}, \frac{460}{2849})$ $+ \frac{6}{2849}\sqrt{43898}e^3 \otimes e_6 + \frac{6}{2849}\sqrt{76610}e^2 \otimes e_8$	{12349, 1456789, 2467, 3458}
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{3581}\sqrt{783030}e^{12}, \frac{4}{3581}\sqrt{72233}e^{13},$ $\frac{6}{3581}\sqrt{51595}e^{14} + \frac{8}{3581}\sqrt{37634}e^{27} + \frac{4}{3581}\sqrt{18210}e^{35}$	$(\frac{832}{3581}, -\frac{191}{3581}, -\frac{13}{3581}, -\frac{382}{3581}, \frac{463}{3581}, -\frac{1405}{3581}, \frac{641}{3581}, \frac{819}{3581}, \frac{450}{3581})$ $+ \frac{2}{3581}\sqrt{904430}e^1 \otimes e_4 + \frac{4}{3581}\sqrt{265259}e^2 \otimes e_6$	{23478, 2457, 3468, 456}
931:38	$0, 0, 0, 0, 0, 0, \frac{16}{117}e^{12}, \frac{16}{117}\sqrt{33}e^{13}, \frac{64}{117}e^{14} + \frac{16}{117}e^{27} + \frac{16}{117}\sqrt{33}e^{35}$	$(\frac{2}{117}, \frac{2}{13}, \frac{17}{39}, \frac{4}{13}, -\frac{1}{9}, -\frac{77}{117}, \frac{20}{117}, \frac{53}{117}, \frac{38}{117})$ $+ \frac{16}{117}\sqrt{97}e^3 \otimes e_6$	{12349, 1245689, 13479, 1456789, 234578, 2467, 3458, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:38	$0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2590}e^{12}, \frac{1}{121}\sqrt{2553}e^{13},$ $\frac{1}{121}\sqrt{555}e^{14} + \frac{6}{121}\sqrt{111}e^{27} + \frac{3}{121}\sqrt{185}e^{35}$	$(-\frac{97}{484}, \frac{29}{121}, \frac{3}{44}, \frac{58}{121}, \frac{51}{242}, -\frac{45}{121}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{1}{121}\sqrt{7030}e^4 \otimes e_8 + \frac{1}{121}\sqrt{8769}e^2 \otimes e_6$	{1289, 16789, 2378, 368}
931:38	$0, 0, 0, 0, 0, \frac{1}{1569}\sqrt{278294}e^{12}, \frac{2}{1569}\sqrt{89179}e^{13},$ $\frac{2}{1569}\sqrt{25678}e^{14} + \frac{2}{1569}\sqrt{80157}e^{27} + \frac{3}{1569}\sqrt{39211}e^{35}$	$(-\frac{20}{523}, \frac{149}{1569}, -\frac{46}{523}, \frac{298}{1569}, \frac{376}{1569}, -\frac{407}{1569}, \frac{89}{1569}, -\frac{66}{523}, \frac{238}{1569})$ $+ \frac{1}{1569}\sqrt{386558}e^1 \otimes e_6 + \frac{2}{1569}\sqrt{149557}e^2 \otimes e_8$	{123459, 14789, 24567, 3468}
931:38	$0, 0, 0, 0, 0, \frac{30}{3869}\sqrt{910}e^{12}, \frac{20}{3869}\sqrt{2443}e^{13},$ $\frac{10}{3869}\sqrt{7259}e^{14} + \frac{100}{3869}\sqrt{91}e^{27} + \frac{20}{3869}\sqrt{791}e^{35}$	$(\frac{232}{3869}, -\frac{59}{3869}, -\frac{641}{3869}, -\frac{118}{3869}, \frac{755}{3869}, \frac{303}{3869}, \frac{173}{3869}, -\frac{409}{3869}, \frac{114}{3869})$ $+ \frac{20}{3869}\sqrt{3689}e^2 \otimes e_8 + \frac{270}{3869}\sqrt{14}e^1 \otimes e_4$	{24567, 2457, 3468, 348}
931:38	$0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{437}e^{12}, \frac{12}{3179}\sqrt{5727}e^{13},$ $\frac{12}{3179}\sqrt{3634}e^{14} + \frac{12}{3179}\sqrt{6279}e^{27} + \frac{84}{3179}\sqrt{391}e^{35}$	$(-\frac{38}{3179}, \frac{96}{3179}, -\frac{732}{3179}, \frac{192}{3179}, \frac{886}{3179}, \frac{1810}{3179}, \frac{58}{3179}, -\frac{70}{289}, \frac{14}{289})$ $+ \frac{24}{3179}\sqrt{8395}e^6 \otimes e_9 + \frac{444}{3179}\sqrt{23}e^5 \otimes e_8$	{1234567, 124678, 13456, 1468, 23489, 2459, 34789, 4579}
931:38	$0, 0, 0, 0, 0, \frac{12}{3179}\sqrt{437}e^{12}, \frac{12}{3179}\sqrt{5727}e^{13},$ $\frac{12}{3179}\sqrt{3634}e^{14} + \frac{12}{3179}\sqrt{6279}e^{27} + \frac{84}{3179}\sqrt{391}e^{35}$	$(-\frac{38}{3179}, \frac{96}{3179}, -\frac{732}{3179}, \frac{192}{3179}, \frac{886}{3179}, \frac{1810}{3179}, \frac{58}{3179}, -\frac{70}{289}, \frac{14}{289})$ $+ \frac{24}{3179}\sqrt{8395}e^6 \otimes e_9 - \frac{444}{3179}\sqrt{23}e^5 \otimes e_8$	{1234567, 124678, 13456, 1468, 23489, 2459, 34789, 4579}
931:38	$0, 0, 0, 0, 0, \frac{44}{1011}\sqrt{66}e^{12}, \frac{44}{1011}\sqrt{138}e^{13},$ $\frac{22}{1011}\sqrt{546}e^{14} + \frac{22}{337}e^{27} + \frac{22}{1011}\sqrt{267}e^{35}$	$(-\frac{176}{1011}, \frac{187}{1011}, \frac{154}{337}, \frac{374}{1011}, -\frac{88}{337}, -\frac{352}{1011}, \frac{11}{1011}, \frac{286}{1011}, \frac{66}{337})$ $+ \frac{22}{1011}\sqrt{1362}e^4 \otimes e_6 + \frac{22}{1011}\sqrt{1365}e^3 \otimes e_5$	{12347, 124578, 134, 1458}
931:38	$0, 0, 0, 0, 0, \frac{2}{2821}\sqrt{480070}e^{12}, \frac{2}{2821}\sqrt{351002}e^{13},$ $\frac{2}{2821}\sqrt{365955}e^{14} + \frac{4}{2821}\sqrt{159761}e^{27} + \frac{8}{2821}\sqrt{7870}e^{35}$	$(-\frac{278}{2821}, \frac{389}{2821}, \frac{1037}{2821}, \frac{778}{2821}, -\frac{537}{2821}, -\frac{1185}{2821}, \frac{111}{2821}, \frac{759}{2821}, \frac{500}{2821})$ $+ \frac{2}{2821}\sqrt{1178926}e^2 \otimes e_6 + \frac{2}{2821}\sqrt{794870}e^3 \otimes e_5$	{23478, 2457, 3468, 456}
931:38	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{258}e^{12}, \frac{3}{155}\sqrt{546}e^{13},$ $\frac{9}{155}\sqrt{70}e^{14} + \frac{6}{155}\sqrt{42}e^{27} + \frac{6}{155}\sqrt{69}e^{35}$	$(-\frac{43}{310}, \frac{69}{310}, -\frac{7}{62}, \frac{69}{155}, \frac{13}{31}, -\frac{43}{155}, \frac{13}{155}, -\frac{39}{155}, \frac{19}{62})$ $+ \frac{3}{155}\sqrt{1434}e^5 \otimes e_6 + \frac{6}{155}\sqrt{471}e^4 \otimes e_8$	{125789, 1589, 2358, 3578}
931:38	$0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{12110}e^{12}, \frac{2}{1193}\sqrt{71449}e^{13},$ $\frac{14}{1193}\sqrt{3287}e^{14} + \frac{2}{1193}\sqrt{10726}e^{27} + \frac{2}{1193}\sqrt{167118}e^{35}$	$(\frac{40}{1193}, -\frac{29}{1193}, \frac{50}{1193}, -\frac{58}{1193}, \frac{68}{1193}, \frac{11}{1193}, \frac{90}{1193}, -\frac{18}{1193})$ $+ \frac{1}{1193}\sqrt{2385670}e^6 \otimes e_9$	{12389, 1259, 13789, 1579, 23567, 2678, 356, 68}
931:38	$0, 0, 0, 0, 0, \frac{2}{953}\sqrt{25190}e^{12}, \frac{10}{953}\sqrt{3206}e^{13},$ $\frac{2}{953}\sqrt{29999}e^{14} + \frac{6}{953}\sqrt{2519}e^{27} + \frac{4}{953}\sqrt{4351}e^{35}$	$(\frac{220}{953}, -\frac{119}{953}, \frac{220}{953}, -\frac{238}{953}, -\frac{238}{953}, \frac{90}{953}, \frac{101}{953}, \frac{440}{953}, -\frac{18}{953})$ $- \frac{4}{953}\sqrt{23129}e^3 \otimes e_5 + \frac{6}{953}\sqrt{11679}e^1 \otimes e_4$	{234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:38	$0, 0, 0, 0, 0, \frac{2}{953}\sqrt{25190}e^{12}, \frac{10}{953}\sqrt{3206}e^{13},$ $\frac{2}{953}\sqrt{29999}e^{14} + \frac{6}{953}\sqrt{2519}e^{27} + \frac{4}{953}\sqrt{4351}e^{35}$	$(\frac{220}{953}, -\frac{119}{953}, \frac{220}{953}, -\frac{238}{953}, -\frac{238}{953}, \frac{90}{953}, \frac{101}{953}, \frac{440}{953}, -\frac{18}{953})$ $+ \frac{4}{953}\sqrt{23129}e^3 \otimes e_5 + \frac{6}{953}\sqrt{11679}e^1 \otimes e_4$	{234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:38	$0, 0, 0, 0, 0, \frac{2}{1151}\sqrt{49105}e^{12}, \frac{1}{1151}\sqrt{204106}e^{13},$ $\frac{7}{1151}\sqrt{2318}e^{14} + \frac{14}{1151}\sqrt{1891}e^{27} + \frac{6}{1151}\sqrt{427}e^{35}$	$(-\frac{205}{1151}, \frac{132}{1151}, -\frac{90}{1151}, \frac{264}{1151}, \frac{149}{1151}, \frac{486}{1151}, -\frac{73}{1151}, -\frac{295}{1151}, \frac{59}{1151})$ $+ \frac{1}{1151}\sqrt{303170}e^6 \otimes e_9 + \frac{7}{1151}\sqrt{11590}e^2 \otimes e_8$	{123459, 14789, 24567, 3468}
931:38	$0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718}e^{12}, \frac{2}{287}\sqrt{20822}e^{13},$ $\frac{1}{287}\sqrt{13283}e^{14} + \frac{3}{287}\sqrt{2513}e^{27} + \frac{1}{287}\sqrt{19027}e^{35}$	$(-\frac{32}{287}, \frac{34}{287}, \frac{395}{574}, \frac{68}{287}, -\frac{323}{574}, \frac{99}{574}, \frac{2}{287}, \frac{331}{574}, \frac{36}{287})$ $+ \frac{5}{287}\sqrt{6821}e^3 \otimes e_5$	{12367, 1237, 125678, 12578, 13, 136, 1568, 158}
931:38	$0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502}e^{12}, \frac{9}{297}\sqrt{1570}e^{13},$ $\frac{2}{297}\sqrt{8007}e^{14} + \frac{2}{297}\sqrt{5809}e^{27} + \frac{4}{297}\sqrt{314}e^{35}$	$(\frac{172}{297}, -\frac{71}{297}, -\frac{10}{99}, -\frac{142}{297}, \frac{20}{99}, \frac{52}{297}, \frac{101}{297}, \frac{142}{297}, \frac{10}{99})$ $+ \frac{14}{297}\sqrt{785}e^1 \otimes e_4$	{234678, 23478, 24567, 2457, 3468, 348, 45, 456}
931:38	$0, 0, 0, 0, 0, \frac{2}{99}\sqrt{322}e^{12}, \frac{2}{99}\sqrt{690}e^{13},$ $\frac{2}{99}\sqrt{391}e^{14} + \frac{2}{99}\sqrt{115}e^{27} + \frac{4}{99}\sqrt{69}e^{35}$	$(\frac{28}{99}, -\frac{1}{11}, \frac{4}{33}, -\frac{2}{11}, -\frac{2}{99}, -\frac{34}{99}, \frac{19}{99}, \frac{40}{99}, \frac{10}{99})$ $+ \frac{2}{33}\sqrt{115}e^1 \otimes e_4 + \frac{4}{99}\sqrt{253}e^3 \otimes e_6$	{234578, 2467, 3458, 46}
931:38	$0, 0, 0, 0, 0, \frac{24}{589}\sqrt{205}e^{12}, \frac{4}{589}\sqrt{9061}e^{13},$ $\frac{8}{589}\sqrt{1763}e^{14} + \frac{4}{589}\sqrt{11521}e^{27} + \frac{164}{589}\sqrt{2}e^{35}$	$(-\frac{145}{589}, \frac{128}{589}, -\frac{55}{589}, \frac{256}{589}, \frac{166}{589}, \frac{84}{589}, -\frac{17}{589}, -\frac{200}{589}, \frac{111}{589})$ $+ \frac{4}{589}\sqrt{20705}e^2 \otimes e_8$	{1234569, 123459, 146789, 14789, 24567, 2457, 3468, 348}
931:38	$0, 0, 0, 0, 0, \frac{11}{189}\sqrt{77}e^{12}, \frac{11}{189}\sqrt{5}e^{13},$ $\frac{11}{189}\sqrt{51}e^{14} + \frac{11}{189}\sqrt{10}e^{27} + \frac{88}{189}e^{35}$	$(\frac{11}{27}, -\frac{22}{189}, -\frac{11}{63}, -\frac{44}{189}, \frac{22}{63}, -\frac{55}{189}, \frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{182}e^1 \otimes e_4 + \frac{11}{63}\sqrt{17}e^5 \otimes e_6$	{234578, 2467, 3458, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:38	$0, 0, 0, 0, 0, 0, \frac{2}{953}\sqrt{25190e^{12}}, \frac{10}{953}\sqrt{3206e^{13}}, \frac{2}{953}\sqrt{29999e^{14}} + \frac{6}{953}\sqrt{2519e^{27}} + \frac{4}{953}\sqrt{4351e^{35}}$	$(\frac{220}{953}, -\frac{119}{953}, -\frac{184}{953}, -\frac{238}{953}, \frac{166}{953}, \frac{494}{953}, \frac{101}{953}, \frac{36}{953}, -\frac{18}{953}) + \frac{4}{953}\sqrt{23129e^6} \otimes e_8 + \frac{4}{953}\sqrt{11679e^1} \otimes e_4$	{23478, 24567, 348, 456}
931:38	$0, 0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1221e^{12}}, \frac{52}{581}\sqrt{37e^{13}}, \frac{8}{581}\sqrt{814e^{14}} + \frac{4}{581}\sqrt{7881e^{27}} + \frac{148}{581}\sqrt{2e^{35}}$	$(-\frac{141}{581}, \frac{132}{581}, -\frac{23}{581}, \frac{264}{581}, \frac{146}{581}, -\frac{32}{581}, -\frac{9}{581}, -\frac{164}{581}, \frac{123}{581}) + \frac{36}{581}\sqrt{185e^2} \otimes e_8 + \frac{8}{581}\sqrt{962e^4} \otimes e_6$	{123459, 14789, 2457, 348}
931:38	$0, 0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718e^{12}}, \frac{2}{287}\sqrt{20822e^{13}}, \frac{1}{287}\sqrt{13283e^{14}} + \frac{3}{287}\sqrt{2513e^{27}} + \frac{1}{287}\sqrt{19027e^{35}}$	$(-\frac{32}{287}, \frac{34}{287}, -\frac{40}{287}, \frac{68}{287}, \frac{76}{287}, 1, \frac{2}{287}, -\frac{72}{287}, \frac{36}{287}) + \frac{5}{287}\sqrt{6821e^6} \otimes e_8$	{12367, 12578, 136, 158, 23589, 269, 35789, 679}
931:38	$0, 0, 0, 0, 0, 0, \frac{3}{41}\sqrt{3e^{12}}, \frac{3}{82}\sqrt{130e^{13}}, \frac{3}{41}\sqrt{10e^{14}} + \frac{3}{82}\sqrt{31e^{27}} + \frac{3}{82}\sqrt{34e^{35}}$	$(\frac{3}{41}, -\frac{3}{41}, \frac{3}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{15}{41}, 0, \frac{6}{41}, -\frac{3}{41}) + \frac{3}{82}\sqrt{101e^3} \otimes e_5 + \frac{3}{82}\sqrt{101e^6} \otimes e_8 + \frac{3}{82}\sqrt{107e^1} \otimes e_4$	{23478, 24567, 348, 456}
931:38	$0, 0, 0, 0, 0, 0, \frac{3}{41}\sqrt{3e^{12}}, \frac{3}{82}\sqrt{130e^{13}}, \frac{3}{41}\sqrt{10e^{14}} + \frac{3}{82}\sqrt{31e^{27}} + \frac{3}{82}\sqrt{34e^{35}}$	$(\frac{3}{41}, -\frac{3}{41}, \frac{3}{41}, -\frac{6}{41}, -\frac{6}{41}, \frac{15}{41}, 0, \frac{6}{41}, -\frac{3}{41}) - \frac{3}{82}\sqrt{101e^3} \otimes e_5 + \frac{3}{82}\sqrt{101e^6} \otimes e_8 + \frac{3}{82}\sqrt{107e^1} \otimes e_4$	{23478, 24567, 348, 456}
931:38	$0, 0, 0, 0, 0, 0, \frac{3}{287}\sqrt{2513e^{12}}, \frac{1}{287}\sqrt{19027e^{13}}, \frac{1}{287}\sqrt{13283e^{14}} + \frac{4}{287}\sqrt{718e^{27}} + \frac{2}{287}\sqrt{20822e^{35}}$	$(\frac{9}{41}, \frac{34}{287}, -\frac{40}{287}, \frac{68}{287}, \frac{171}{287}, -\frac{188}{287}, \frac{97}{287}, \frac{23}{287}, \frac{131}{287}) + \frac{5}{287}\sqrt{6821e^5} \otimes e_6$	{12358, 126, 13578, 167, 23679, 25789, 369, 589}
931:39	$0, 0, 0, 0, 0, 0, \frac{3}{58}\sqrt{62e^{12}}, \frac{3}{29}\sqrt{93e^{13}}, \frac{1}{29}\sqrt{93e^{17}} + \frac{3}{58}\sqrt{93e^{23}} + \frac{3}{58}\sqrt{62e^{45}}$	$(\frac{9}{116}, \frac{4}{29}, \frac{9}{58}, \frac{55}{58}, -\frac{19}{29}, \frac{23}{116}, \frac{25}{116}, \frac{27}{116}, \frac{17}{58}) + \frac{93}{58}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 24679, 2479, 25679, 2579}
931:39	$0, 0, 0, 0, 0, 0, \frac{1}{255}\sqrt{1610e^{17}} + \frac{1}{255}\sqrt{115e^{23}} + \frac{1}{255}\sqrt{1265e^{45}}$	$(-\frac{1}{17}, \frac{13}{85}, -\frac{2}{17}, \frac{14}{51}, -\frac{61}{255}, \frac{124}{255}, \frac{8}{85}, -\frac{3}{17}, \frac{3}{85}) + \frac{1}{255}\sqrt{22310e^6} \otimes e_9 + \frac{1}{255}\sqrt{30130e^4} \otimes e_8$	{123479, 13456, 23589, 3678}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{149}\sqrt{3127e^{12}}, \frac{6}{149}\sqrt{177e^{13}}, \frac{4}{149}\sqrt{767e^{17}} + \frac{2}{149}\sqrt{2183e^{23}} + \frac{2}{149}\sqrt{177e^{45}}$	$(\frac{17}{149}, \frac{8}{149}, \frac{34}{149}, \frac{21}{149}, \frac{21}{149}, -\frac{101}{149}, \frac{25}{149}, \frac{51}{149}, \frac{42}{149}) + \frac{10}{149}\sqrt{295e^1} \otimes e_6$	{12349, 13457, 137, 2346789, 34568, 368}
931:39	$0, 0, 0, 0, 0, 0, \frac{7}{1193}\sqrt{10726e^{12}}, \frac{2}{1193}\sqrt{167118e^{13}}, \frac{2}{1193}\sqrt{71449e^{17}} + \frac{14}{1193}\sqrt{3287e^{23}} + \frac{2}{1193}\sqrt{12110e^{45}}$	$(-\frac{167}{1193}, \frac{710}{1193}, -\frac{334}{1193}, \frac{188}{1193}, \frac{188}{1193}, \frac{208}{1193}, \frac{543}{1193}, -\frac{501}{1193}, \frac{376}{1193}) + \frac{1}{1193}\sqrt{2385670e^2} \otimes e_8$	{123, 12345, 123456, 1236, 34689, 3489}
931:39	$0, 0, 0, 0, 0, 0, \frac{6}{293}\sqrt{366e^{12}}, \frac{4}{293}\sqrt{1281e^{13}}, \frac{4}{293}\sqrt{915e^{17}} + \frac{2}{293}\sqrt{5307e^{23}} + \frac{4}{293}\sqrt{2318e^{45}}$	$(\frac{27}{293}, \frac{64}{293}, \frac{54}{293}, \frac{179}{293}, -\frac{61}{293}, -\frac{187}{293}, \frac{91}{293}, \frac{81}{293}, \frac{118}{293}) + \frac{24}{293}\sqrt{305e^4} \otimes e_6$	{12458, 1268, 14789, 156789, 2457, 267, 49, 569}
931:39	$0, 0, 0, 0, 0, 0, \frac{4}{287}\sqrt{718e^{12}}, \frac{2}{287}\sqrt{20822e^{13}}, \frac{1}{287}\sqrt{19027e^{17}} + \frac{1}{287}\sqrt{13283e^{23}} + \frac{3}{287}\sqrt{2513e^{45}}$	$(-\frac{24}{287}, \frac{12}{41}, -\frac{48}{287}, \frac{18}{287}, \frac{18}{287}, 1, \frac{60}{287}, -\frac{72}{287}, \frac{36}{287}) + \frac{5}{287}\sqrt{6821e^6} \otimes e_8$	{1234679, 13456, 136, 23489, 34578, 378}
931:39	$0, 0, 0, 0, 0, 0, \frac{12}{803}\sqrt{894e^{12}}, \frac{12}{803}\sqrt{662e^{13}}, \frac{48}{803}\sqrt{29e^{17}} + \frac{24}{803}\sqrt{33e^{23}} + \frac{12}{803}\sqrt{2e^{45}}$	$(-\frac{24}{803}, \frac{216}{803}, -\frac{48}{803}, \frac{84}{803}, \frac{84}{803}, -\frac{312}{803}, \frac{192}{803}, -\frac{72}{803}, \frac{168}{803}) + \frac{12}{803}\sqrt{1586e^1} \otimes e_6 + \frac{24}{803}\sqrt{322e^2} \otimes e_8$	{12349, 34568, 368}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{3573}\sqrt{823386e^{12}}, \frac{8}{3573}\sqrt{26439e^{13}}, \frac{10}{3573}\sqrt{2518e^{17}} + \frac{2}{3573}\sqrt{54137e^{23}} + \frac{8}{3573}\sqrt{148562e^{45}}$	$(\frac{16}{3573}, \frac{108}{397}, \frac{32}{3573}, \frac{587}{1191}, -\frac{757}{3573}, -\frac{1546}{3573}, \frac{988}{3573}, \frac{16}{1191}, \frac{1004}{3573}) + \frac{2518}{3573}e^4 \otimes e_5 + \frac{2}{3573}\sqrt{2429870e^2} \otimes e_6$	{1467, 1567, 468, 568}
931:39	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{69e^{12}}, \frac{6}{161}\sqrt{165e^{13}}, \frac{6}{161}\sqrt{30e^{17}} + \frac{6}{161}\sqrt{111e^{23}} + \frac{18}{161}\sqrt{13e^{45}}$	$(-\frac{1}{161}, \frac{30}{161}, -\frac{2}{161}, \frac{51}{161}, -\frac{1}{7}, -\frac{55}{161}, \frac{29}{161}, -\frac{3}{161}, \frac{4}{23}) + \frac{6}{161}\sqrt{213e^1} \otimes e_6 + \frac{6}{161}\sqrt{222e^4} \otimes e_8$	{12349, 13457, 2356789, 368}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{571}\sqrt{6630e^{12}}, \frac{2}{571}\sqrt{60554e^{13}}, \frac{2}{571}\sqrt{26078e^{17}} + \frac{2}{571}\sqrt{22763e^{23}} + \frac{4}{571}\sqrt{14586e^{45}}$	$(-\frac{45}{571}, \frac{214}{571}, -\frac{90}{571}, \frac{307}{571}, -\frac{183}{571}, \frac{81}{571}, \frac{169}{571}, -\frac{135}{571}, \frac{124}{571}) + \frac{14}{571}\sqrt{2210e^4} \otimes e_8$	{1234679, 123479, 1345, 13456, 235689, 23589, 3678, 378}
931:39	$0, 0, 0, 0, 0, 0, \frac{4}{3597}\sqrt{12110e^{12}}, \frac{4}{3597}\sqrt{71449e^{13}}, \frac{4}{3597}\sqrt{167118e^{17}} + \frac{28}{3597}\sqrt{3287e^{23}} + \frac{14}{3597}\sqrt{10726e^{45}}$	$(\frac{20}{1199}, -\frac{52}{1199}, \frac{40}{1199}, \frac{1193}{3597}, -\frac{1229}{3597}, \frac{2386}{3597}, -\frac{32}{1199}, \frac{60}{1199}, -\frac{12}{1199}) + \frac{2422}{3597}e^4 \otimes e_5 + \frac{2}{3597}\sqrt{2385670e^6} \otimes e_9$	{1249, 1259, 24789, 25789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:39	$0, 0, 0, 0, 0, 0, \frac{8}{557}\sqrt{273}e^{12}, \frac{8}{557}\sqrt{182}e^{13},$ $\frac{8}{557}\sqrt{182}e^{17} + \frac{56}{557}\sqrt{15}e^{23} + \frac{8}{557}\sqrt{273}e^{45}$	$(-\frac{40}{557}, \frac{104}{557}, -\frac{80}{557}, \frac{124}{557}, -\frac{100}{557}, \frac{248}{557}, \frac{64}{557}, -\frac{120}{557}, \frac{24}{557})$ $+ \frac{224}{557}e^4 \otimes e_5 + \frac{8}{557}\sqrt{1379}e^2 \otimes e_8 + \frac{8}{557}\sqrt{1379}e^6 \otimes e_9$	{2479, 2579}
931:39	$0, 0, 0, 0, 0, 0, \frac{100}{2197}\sqrt{5}e^{12}, \frac{25}{2197}\sqrt{1110}e^{13},$ $\frac{25}{2197}\sqrt{627}e^{17} + \frac{25}{2197}\sqrt{1146}e^{23} + \frac{150}{2197}\sqrt{2}e^{45}$	$(-\frac{50}{2197}, \frac{475}{2197}, -\frac{100}{2197}, -\frac{125}{2197}, \frac{500}{2197}, -\frac{725}{2197}, \frac{425}{2197}, -\frac{150}{2197}, \frac{375}{2197})$ $+ \frac{25}{2197}\sqrt{1713}e^2 \otimes e_8 + \frac{25}{2197}\sqrt{1753}e^3 \otimes e_6 + \frac{625}{2197}e^5 \otimes e_4$	{1468, 1568}
931:39	$0, 0, 0, 0, 0, 0, \frac{8}{445}\sqrt{273}e^{12}, \frac{8}{445}\sqrt{182}e^{13},$ $\frac{8}{445}\sqrt{182}e^{17} + \frac{36}{445}\sqrt{15}e^{23} + \frac{8}{445}\sqrt{273}e^{45}$	$(-\frac{8}{89}, \frac{104}{445}, -\frac{16}{89}, \frac{12}{445}, \frac{12}{445}, \frac{248}{445}, \frac{64}{445}, -\frac{24}{445}, \frac{24}{445})$ $+ \frac{8}{445}\sqrt{1379}e^2 \otimes e_8 + \frac{8}{445}\sqrt{1379}e^6 \otimes e_9$	{145678, 1678, 2479}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{3397}\sqrt{453494}e^{12}, \frac{12}{3397}\sqrt{24171}e^{13},$ $\frac{2}{3397}\sqrt{448890}e^{17} + \frac{2}{3397}\sqrt{877062}e^{23} + \frac{4}{3397}\sqrt{3453}e^{45}$	$(\frac{364}{3397}, -\frac{32}{3397}, \frac{728}{3397}, \frac{1499}{3397}, -\frac{803}{3397}, -\frac{1574}{3397}, \frac{332}{3397}, \frac{1092}{3397}, \frac{696}{3397})$ $+ \frac{2302}{3397}e^4 \otimes e_5 + \frac{2}{3397}\sqrt{2198410}e^3 \otimes e_6$	{1468, 1568, 467, 567}
931:39	$0, 0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{6}{1123}\sqrt{24171}e^{13},$ $\frac{1}{1123}\sqrt{448890}e^{17} + \frac{1}{1123}\sqrt{877062}e^{23} + \frac{2}{1123}\sqrt{3453}e^{45}$	$(\frac{182}{1123}, -\frac{16}{1123}, \frac{364}{1123}, \frac{174}{1123}, \frac{174}{1123}, -\frac{787}{1123}, \frac{166}{1123}, \frac{546}{1123}, \frac{348}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^3 \otimes e_6$	{12456789, 126789, 1468, 24569, 269, 467}
931:39	$0, 0, 0, 0, 0, 0, \frac{1}{104}\sqrt{3127}e^{12}, \frac{3}{104}\sqrt{177}e^{13},$ $\frac{1}{52}\sqrt{767}e^{17} + \frac{1}{104}\sqrt{2183}e^{23} + \frac{1}{104}\sqrt{177}e^{45}$	$(\frac{17}{208}, \frac{1}{26}, \frac{17}{104}, \frac{5}{13}, -\frac{19}{104}, -\frac{101}{208}, \frac{25}{208}, \frac{51}{208}, \frac{21}{104})$ $+ \frac{59}{104}e^4 \otimes e_5 + \frac{5}{104}\sqrt{295}e^1 \otimes e_8$	{12349, 12359, 2346789, 2356789}
931:39	$0, 0, 0, 0, 0, 0, \frac{200}{3769}\sqrt{5}e^{12}, \frac{50}{3769}\sqrt{1110}e^{13},$ $\frac{50}{3769}\sqrt{627}e^{17} + \frac{50}{3769}\sqrt{1146}e^{23} + \frac{300}{3769}\sqrt{2}e^{45}$	$(-\frac{100}{3769}, \frac{950}{3769}, -\frac{200}{3769}, \frac{375}{3769}, \frac{375}{3769}, -\frac{1450}{3769}, \frac{850}{3769}, -\frac{300}{3769}, \frac{750}{3769})$ $+ \frac{50}{3769}\sqrt{1713}e^2 \otimes e_8 + \frac{50}{3769}\sqrt{1753}e^3 \otimes e_6$	{1468, 24569, 269}
931:39	$0, 0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{823386}e^{12}, \frac{4}{1157}\sqrt{26439}e^{13},$ $\frac{5}{1157}\sqrt{2518}e^{17} + \frac{4}{1157}\sqrt{54137}e^{23} + \frac{1}{1157}\sqrt{148562}e^{45}$	$(\frac{8}{1157}, \frac{486}{1157}, \frac{16}{1157}, \frac{251}{1157}, \frac{251}{1157}, -\frac{773}{1157}, \frac{38}{89}, \frac{24}{1157}, \frac{502}{1157})$ $+ \frac{1}{1157}\sqrt{2429870}e^2 \otimes e_6$	{12459, 129, 1467, 245789, 2789, 468}
931:39	$0, 0, 0, 0, 0, 0, \frac{12}{947}\sqrt{894}e^{12}, \frac{12}{947}\sqrt{662}e^{13},$ $\frac{48}{947}\sqrt{29}e^{17} + \frac{24}{947}\sqrt{33}e^{23} + \frac{12}{947}\sqrt{2}e^{45}$	$(-\frac{24}{947}, \frac{216}{947}, -\frac{48}{947}, -\frac{60}{947}, \frac{228}{947}, -\frac{312}{947}, \frac{192}{947}, -\frac{72}{947}, \frac{168}{947})$ $+ \frac{12}{947}\sqrt{1586}e^1 \otimes e_6 + \frac{24}{947}\sqrt{322}e^2 \otimes e_8 + \frac{288}{947}e^5 \otimes e_4$	{12349, 12359}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{3129}\sqrt{352610}e^{12}, \frac{2}{3129}\sqrt{507949}e^{13},$ $\frac{2}{3129}\sqrt{310678}e^{17} + \frac{2}{3129}\sqrt{243015}e^{23} + \frac{4}{3129}\sqrt{132467}e^{45}$	$(-\frac{211}{3129}, \frac{1273}{3129}, -\frac{422}{3129}, \frac{347}{1043}, -\frac{190}{3129}, -\frac{865}{3129}, \frac{354}{1043}, -\frac{211}{1043}, \frac{851}{3129})$ $+ \frac{2}{3129}\sqrt{1173143}e^4 \otimes e_6 + \frac{4}{3129}\sqrt{364999}e^2 \otimes e_8$	{12345, 1236, 3489, 35689}
931:39	$0, 0, 0, 0, 0, 0, \frac{4}{2987}\sqrt{50547}e^{12}, \frac{2}{2987}\sqrt{645906}e^{13},$ $\frac{6}{2987}\sqrt{36354}e^{17} + \frac{6}{2987}\sqrt{8798}e^{23} + \frac{2}{2987}\sqrt{41666}e^{45}$	$(\frac{4}{2987}, \frac{485}{2987}, \frac{8}{2987}, \frac{1008}{2987}, -\frac{5}{29}, -\frac{988}{2987}, \frac{489}{2987}, \frac{12}{2987}, \frac{17}{103})$ $+ \frac{2}{2987}\sqrt{758454}e^4 \otimes e_8 + \frac{4}{2987}\sqrt{152637}e^3 \otimes e_6$	{1256789, 168, 2469, 4567}
931:39	$0, 0, 0, 0, 0, 0, \frac{10}{3741}\sqrt{2530}e^{12}, \frac{20}{3741}\sqrt{7130}e^{13},$ $\frac{20}{3741}\sqrt{3841}e^{17} + \frac{10}{3741}\sqrt{14099}e^{23} + \frac{10}{1247}\sqrt{4278}e^{45}$	$(-\frac{55}{1247}, \frac{340}{1247}, -\frac{110}{1247}, \frac{35}{3741}, \frac{655}{3741}, -\frac{1115}{3741}, \frac{285}{1247}, -\frac{165}{1247}, \frac{230}{1247})$ $+ \frac{20}{3741}\sqrt{8119}e^4 \otimes e_6 + \frac{40}{3741}\sqrt{2921}e^5 \otimes e_8$	{1235679, 1345, 23489, 3678}
931:39	$0, 0, 0, 0, 0, 0, \frac{2}{1193}\sqrt{12110}e^{12}, \frac{2}{1193}\sqrt{71449}e^{13},$ $\frac{2}{1193}\sqrt{167118}e^{17} + \frac{14}{1193}\sqrt{3287}e^{23} + \frac{7}{1193}\sqrt{10726}e^{45}$	$(\frac{30}{1193}, -\frac{78}{1193}, \frac{60}{1193}, -\frac{9}{1193}, -\frac{9}{1193}, 1, -\frac{48}{1193}, \frac{90}{1193}, -\frac{18}{1193})$ $+ \frac{1}{1193}\sqrt{2385670}e^6 \otimes e_9$	{1249, 14567, 167, 24789, 4568, 68}
931:39	$0, 0, 0, 0, 0, 0, \frac{4}{3597}\sqrt{10726}e^{12}, \frac{4}{3597}\sqrt{167118}e^{13},$ $\frac{4}{3597}\sqrt{71449}e^{17} + \frac{28}{3597}\sqrt{3287}e^{23} + \frac{4}{3597}\sqrt{12110}e^{45}$	$(-\frac{334}{3597}, \frac{1420}{3597}, -\frac{668}{3597}, \frac{529}{1199}, -\frac{835}{3597}, \frac{416}{3597}, \frac{362}{1199}, -\frac{334}{1199}, \frac{752}{3597})$ $+ \frac{2422}{3597}e^4 \otimes e_5 + \frac{2}{3597}\sqrt{2385670}e^2 \otimes e_8$	{34689, 3489, 35689, 3589}
931:39	$0, 0, 0, 0, 0, 0, \frac{8}{933}\sqrt{718}e^{12}, \frac{4}{933}\sqrt{20822}e^{13},$ $\frac{2}{933}\sqrt{19027}e^{17} + \frac{2}{933}\sqrt{13283}e^{23} + \frac{2}{311}\sqrt{2513}e^{45}$	$(-\frac{16}{311}, \frac{56}{311}, -\frac{32}{311}, \frac{395}{933}, -\frac{323}{933}, \frac{574}{933}, \frac{40}{311}, -\frac{48}{311}, \frac{24}{311})$ $+ \frac{10}{933}\sqrt{6821}e^6 \otimes e_8 + \frac{718}{933}e^4 \otimes e_5$	{1234679, 1235679, 23489, 23589}
931:40	$0, 0, 0, 0, 0, 0, \frac{9}{1025}\sqrt{1130}e^{12}, \frac{9}{1025}\sqrt{10}e^{13},$ $\frac{18}{205}\sqrt{7}e^{17} + \frac{9}{1025}\sqrt{130}e^{24} + \frac{18}{1025}\sqrt{570}e^{35}$	$(-\frac{18}{205}, \frac{9}{41}, -\frac{27}{205}, -\frac{36}{205}, \frac{36}{205}, \frac{18}{41}, \frac{27}{205}, -\frac{9}{41}, \frac{9}{205})$ $+ \frac{18}{1025}\sqrt{790}e^5 \otimes e_8 + \frac{18}{1025}\sqrt{895}e^6 \otimes e_9 + \frac{9}{1025}\sqrt{2590}e^2 \otimes e_4$	{12389, 1259}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{68}\sqrt{34}e^{12}, \frac{5}{68}\sqrt{34}e^{13},$ $\frac{1}{68}\sqrt{255}e^{17} + \frac{1}{34}\sqrt{187}e^{24} + \frac{1}{68}\sqrt{255}e^{35}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{34}\sqrt{102}e^6 \otimes e_9 + \frac{1}{34}\sqrt{255}e^2 \otimes e_8 + \frac{1}{68}\sqrt{714}e^3 \otimes e_5$	{1568, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{138}\sqrt{3914e^{12}}, \frac{1}{69}\sqrt{1030e^{13}}, \frac{1}{138}\sqrt{206e^{17}} + \frac{1}{138}\sqrt{103e^{24}} + \frac{1}{138}\sqrt{206e^{35}}$	$(-\frac{15}{92}, \frac{29}{69}, \frac{29}{69}, -\frac{15}{46}, -\frac{15}{46}, \frac{31}{276}, \frac{71}{276}, \frac{71}{276}, \frac{13}{138})$ $+ \frac{1}{138}\sqrt{12566e^2} \otimes e_4 + \frac{1}{138}\sqrt{12669e^3} \otimes e_5$	{123, 1236, 12568, 1258, 23678, 2378, 2567, 257}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{138}\sqrt{3914e^{12}}, \frac{1}{69}\sqrt{1030e^{13}}, \frac{1}{138}\sqrt{206e^{17}} + \frac{1}{138}\sqrt{103e^{24}} + \frac{1}{138}\sqrt{206e^{35}}$	$(-\frac{15}{92}, \frac{29}{69}, \frac{29}{69}, -\frac{15}{46}, -\frac{15}{46}, \frac{31}{276}, \frac{71}{276}, \frac{71}{276}, \frac{13}{138})$ $+ \frac{1}{138}\sqrt{12566e^2} \otimes e_4 - \frac{1}{138}\sqrt{12669e^3} \otimes e_5$	{123, 1236, 12568, 1258, 23678, 2378, 2567, 257}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{7178e^{12}}, \frac{1}{81}\sqrt{2910e^{13}}, \frac{1}{81}\sqrt{2134e^{17}} + \frac{1}{81}\sqrt{2910e^{24}} + \frac{1}{81}\sqrt{2134e^{35}}$	$(-\frac{19}{81}, \frac{59}{81}, \frac{2}{9}, -\frac{38}{81}, \frac{1}{27}, \frac{14}{81}, \frac{40}{81}, -\frac{1}{81}, \frac{7}{27})$ $+ \frac{1}{81}\sqrt{12998e^2} \otimes e_4$	{1345678, 134578, 1467, 147, 345, 3456, 468, 48}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{594}\sqrt{13685e^{17}} + \frac{1}{297}\sqrt{20723e^{12}}, \frac{1}{198}\sqrt{3910e^{13}}, \frac{1}{297}\sqrt{2346e^{24}} + \frac{1}{297}\sqrt{23851e^{35}}$	$(-\frac{67}{594}, \frac{257}{594}, \frac{119}{396}, -\frac{67}{297}, -\frac{37}{396}, -\frac{425}{1188}, \frac{95}{297}, \frac{223}{1188}, \frac{41}{198})$ $+ \frac{1}{198}\sqrt{24242e^3} \otimes e_6 + \frac{1}{594}\sqrt{194327e^2} \otimes e_4$	{1235, 1268, 23578, 267}
931:40	$0, 0, 0, 0, 0, 0, \frac{5}{252}\sqrt{291e^{17}} + \frac{5}{42}\sqrt{15e^{24}} + \frac{5}{252}\sqrt{291e^{35}}$	$(-\frac{71}{504}, \frac{83}{252}, \frac{29}{168}, -\frac{71}{252}, -\frac{1}{8}, \frac{19}{252}, \frac{95}{504}, \frac{2}{63}, \frac{1}{21})$ $+ \frac{5}{126}\sqrt{201e^2} \otimes e_8 + \frac{5}{84}\sqrt{66e^3} \otimes e_5$	{1568, 158, 3678, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{3}{221}\sqrt{173e^{12}}, \frac{6}{221}\sqrt{73e^{13}}, \frac{3}{221}\sqrt{130e^{17}} + \frac{12}{221}\sqrt{15e^{24}} + \frac{3}{221}\sqrt{130e^{35}}$	$(\frac{12}{221}, -\frac{27}{221}, \frac{3}{221}, \frac{24}{221}, -\frac{6}{221}, \frac{6}{221}, \frac{15}{221}, \frac{15}{221}, -\frac{3}{221})$ $+ \frac{15}{221}\sqrt{11e^4} \otimes e_8 + \frac{3}{221}\sqrt{155e^3} \otimes e_5 + \frac{3}{221}e^6 \otimes e_9$	{158, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{971}\sqrt{128710e^{12}}, \frac{1}{971}\sqrt{647770e^{13}}, \frac{1}{971}\sqrt{6330e^{17}} + \frac{1}{971}\sqrt{78070e^{24}} + \frac{2}{971}\sqrt{136095e^{35}}$	$(\frac{62}{971}, \frac{185}{971}, -\frac{404}{971}, \frac{124}{971}, \frac{713}{971}, \frac{161}{971}, \frac{247}{971}, -\frac{342}{971}, \frac{309}{971})$ $+ \frac{90}{971}\sqrt{211e^5} \otimes e_8$	{135, 1356, 168, 18, 23689, 2389, 2569, 259}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170e^{17}} + \frac{1}{311}\sqrt{7030e^{24}} + \frac{1}{311}\sqrt{2590e^{35}}$	$(-\frac{20}{311}, \frac{118}{311}, -\frac{47}{311}, -\frac{40}{311}, \frac{125}{311}, \frac{118}{311}, \frac{98}{311}, -\frac{67}{311}, \frac{78}{311})$ $+ \frac{1}{311}\sqrt{66230e^2} \otimes e_8 + \frac{8}{311}\sqrt{555e^5} \otimes e_6$	{12345, 145789, 2467, 34689}
931:40	$0, 0, 0, 0, 0, 0, \frac{5}{252}\sqrt{291e^{17}} + \frac{5}{84}\sqrt{82e^{24}} + \frac{5}{252}\sqrt{291e^{35}}$	$(-\frac{5}{504}, \frac{25}{126}, \frac{5}{56}, -\frac{5}{252}, \frac{15}{56}, -\frac{20}{63}, \frac{95}{504}, -\frac{25}{252}, \frac{5}{28})$ $+ \frac{5}{126}\sqrt{201e^2} \otimes e_8 + \frac{5}{84}\sqrt{66e^4} \otimes e_6$	{1235679, 1568, 269, 3678}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{759}\sqrt{118294e^{17}} + \frac{1}{759}\sqrt{177158e^{12}}, \frac{5}{759}\sqrt{566e^{13}}, \frac{1}{759}\sqrt{87730e^{24}} + \frac{2}{759}\sqrt{1981e^{35}}$	$(-\frac{12}{253}, \frac{211}{759}, \frac{82}{759}, -\frac{24}{253}, \frac{19}{253}, -\frac{29}{69}, \frac{175}{759}, \frac{2}{759}, \frac{139}{759})$ $+ \frac{2}{759}\sqrt{42167e^2} \otimes e_4 + \frac{2}{759}\sqrt{55185e^1} \otimes e_6$	{134578, 147, 3456, 468}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{594}\sqrt{13685e^{17}} + \frac{1}{297}\sqrt{20723e^{12}}, \frac{1}{198}\sqrt{3910e^{13}}, \frac{1}{297}\sqrt{2346e^{24}} + \frac{1}{297}\sqrt{23851e^{35}}$	$(-\frac{67}{594}, \frac{257}{594}, -\frac{67}{396}, -\frac{67}{297}, \frac{149}{396}, \frac{133}{1188}, \frac{95}{297}, -\frac{335}{1188}, \frac{41}{198})$ $+ \frac{1}{198}\sqrt{24242e^5} \otimes e_8 + \frac{1}{594}\sqrt{194327e^2} \otimes e_4$	{1235, 12356, 1268, 128}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{82e^{17}} + \frac{2}{181}\sqrt{615e^{24}} + \frac{2}{181}\sqrt{82e^{35}}$	$(-\frac{20}{181}, \frac{47}{181}, -\frac{15}{181}, -\frac{40}{181}, \frac{22}{181}, \frac{89}{181}, \frac{27}{181}, -\frac{35}{181}, \frac{7}{181})$ $+ \frac{2}{181}\sqrt{2829e^6} \otimes e_9 + \frac{4}{181}\sqrt{943e^2} \otimes e_8$	{12346, 14789, 24567, 34589}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{2629}\sqrt{71715e^{17}} + \frac{2}{2629}\sqrt{48493e^{12}}, \frac{2}{2629}\sqrt{163237e^{13}}, \frac{2}{2629}\sqrt{44395e^{24}} + \frac{30}{2629}\sqrt{2049e^{35}}$	$(\frac{13}{2629}, \frac{97}{2629}, -\frac{628}{2629}, \frac{26}{2629}, \frac{751}{2629}, \frac{1489}{2629}, \frac{10}{2629}, -\frac{615}{2629}, \frac{123}{2629})$ $+ \frac{2}{2629}\sqrt{821649e^6} \otimes e_9 + \frac{4}{2629}\sqrt{194655e^5} \otimes e_8$	{1234567, 124678, 34789, 4579}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{321}\sqrt{397e^{17}} + \frac{1}{321}\sqrt{37318e^{12}}, \frac{1}{321}\sqrt{34142e^{24}} + \frac{1}{107}\sqrt{11910e^{35}}$	$(\frac{49}{321}, \frac{17}{107}, -\frac{37}{321}, \frac{98}{321}, \frac{62}{107}, -\frac{211}{321}, \frac{100}{321}, \frac{4}{107}, \frac{149}{321})$ $+ \frac{2}{321}\sqrt{52801e^5} \otimes e_6$	{1234689, 12459, 134578, 1467, 234679, 245789, 345, 468}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{1065e^{17}} + \frac{2}{59}\sqrt{355e^{12}}, \frac{2}{59}\sqrt{994e^{13}}, \frac{1}{59}\sqrt{1633e^{24}} + \frac{1}{59}\sqrt{1065e^{35}}$	$(-\frac{1}{59}, \frac{8}{59}, \frac{77}{118}, -\frac{2}{59}, -\frac{65}{118}, \frac{19}{118}, \frac{7}{59}, \frac{75}{118}, \frac{6}{59})$ $+ \frac{3}{59}\sqrt{781e^3} \otimes e_5$	{13, 136, 1568, 158, 3678, 378, 567, 57}
931:40	$0, 0, 0, 0, 0, 0, \frac{10}{351}\sqrt{101e^{17}} + \frac{10}{351}\sqrt{6e^{24}} + \frac{10}{351}\sqrt{178e^{35}}$	$(-\frac{10}{351}, \frac{80}{351}, -\frac{5}{117}, -\frac{20}{351}, \frac{25}{117}, -\frac{115}{351}, \frac{70}{351}, -\frac{25}{351}, \frac{20}{117})$ $+ \frac{10}{117}\sqrt{31e^3} \otimes e_6 + \frac{10}{117}\sqrt{31e^5} \otimes e_8 + \frac{10}{351}\sqrt{95e^2} \otimes e_4$	{1345, 1468}
931:40	$0, 0, 0, 0, 0, 0, \frac{39}{5125}\sqrt{1766e^{17}} + \frac{39}{5125}\sqrt{3030e^{12}}, \frac{39}{5125}\sqrt{554e^{13}}, \frac{39}{5125}\sqrt{1570e^{24}} + \frac{39}{5125}\sqrt{21e^{35}}$	$(-\frac{156}{5125}, \frac{1209}{5125}, -\frac{234}{5125}, -\frac{312}{5125}, \frac{1131}{5125}, -\frac{1677}{5125}, \frac{1053}{5125}, -\frac{78}{1025}, \frac{897}{5125})$ $+ \frac{312}{5125}\sqrt{34e^5} \otimes e_8 + \frac{78}{5125}\sqrt{1049e^1} \otimes e_6 + \frac{78}{5125}\sqrt{759e^2} \otimes e_4$	{13457, 1478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{15}e^{12}, \frac{1}{16}\sqrt{102}e^{13},$ $\frac{3}{16}\sqrt{5}e^{17} + \frac{1}{16}\sqrt{102}e^{24} + \frac{3}{16}\sqrt{5}e^{35}$	$(\frac{3}{32}, -\frac{1}{16}, \frac{11}{32}, \frac{3}{16}, -\frac{7}{32}, -\frac{3}{8}, \frac{1}{32}, \frac{7}{16}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{33}e^3 \otimes e_5 + \frac{1}{8}\sqrt{33}e^4 \otimes e_6$	{136, 1568, 3678, 567}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{73}e^{12}, \frac{1}{112}\sqrt{2482}e^{13},$ $\frac{1}{112}\sqrt{1095}e^{17} + \frac{1}{56}\sqrt{730}e^{24} + \frac{1}{112}\sqrt{1095}e^{35}$	$(-\frac{1}{32}, \frac{1}{112}, \frac{67}{224}, -\frac{1}{16}, -\frac{79}{224}, \frac{67}{112}, -\frac{5}{224}, \frac{15}{56}, -\frac{3}{56})$ $+ \frac{3}{112}\sqrt{730}e^3 \otimes e_5 + \frac{3}{56}\sqrt{219}e^6 \otimes e_9$	{1349, 14589, 34789, 4579}
931:40	$0, 0, 0, 0, 0, 0, \frac{72}{1153}\sqrt{42}e^{12}, \frac{9}{1153}\sqrt{3290}e^{13},$ $\frac{72}{1153}\sqrt{35}e^{17} + \frac{9}{1153}\sqrt{1498}e^{24} + \frac{72}{1153}\sqrt{21}e^{35}$	$(\frac{117}{1153}, \frac{42}{1153}, -\frac{204}{1153}, \frac{234}{1153}, \frac{480}{1153}, -\frac{450}{1153}, \frac{159}{1153}, -\frac{87}{1153}, \frac{276}{1153})$ $+ \frac{9}{1153}\sqrt{6286}e^5 \otimes e_8 + \frac{9}{1153}\sqrt{8078}e^1 \otimes e_6$	{13457, 1478, 2346789, 245679}
931:40	$0, 0, 0, 0, 0, 0, \frac{125}{529}\sqrt{2}e^{12}, \frac{25}{529}\sqrt{102}e^{13},$ $\frac{10}{529}\sqrt{330}e^{17} + \frac{30}{529}\sqrt{85}e^{24} + \frac{10}{529}\sqrt{330}e^{35}$	$(\frac{35}{529}, \frac{5}{529}, -\frac{90}{529}, \frac{70}{529}, \frac{165}{529}, -\frac{120}{529}, \frac{40}{529}, -\frac{55}{529}, \frac{75}{529})$ $+ \frac{15}{529}\sqrt{170}e^2 \otimes e_6 + \frac{35}{529}\sqrt{70}e^4 \otimes e_8$	{12789, 1568, 23589, 3678}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{995}\sqrt{592334}e^{12}, \frac{1}{995}\sqrt{179546}e^{13},$ $\frac{3}{995}\sqrt{68798}e^{17} + \frac{3}{995}\sqrt{31882}e^{24} + \frac{4}{995}\sqrt{5034}e^{35}$	$(\frac{166}{995}, -\frac{21}{995}, \frac{102}{995}, \frac{332}{995}, \frac{209}{995}, -\frac{673}{995}, \frac{29}{995}, \frac{268}{995}, \frac{311}{995})$ $+ \frac{2}{995}\sqrt{349863}e^1 \otimes e_6$	{123459, 12489, 1347, 14578, 23456789, 24679, 3468, 456}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{971}\sqrt{128710}e^{12}, \frac{1}{971}\sqrt{647770}e^{13},$ $\frac{7}{971}\sqrt{6330}e^{17} + \frac{1}{971}\sqrt{78070}e^{24} + \frac{2}{971}\sqrt{136095}e^{35}$	$(\frac{62}{971}, \frac{185}{971}, \frac{406}{971}, \frac{124}{971}, -\frac{97}{971}, \frac{649}{971}, \frac{247}{971}, \frac{468}{971}, \frac{309}{971})$ $+ \frac{90}{971}\sqrt{211}e^3 \otimes e_6$	{12379, 1256789, 135, 168, 2389, 2569, 3578, 67}
931:40	$0, 0, 0, 0, 0, 0, \frac{32}{73}\sqrt{2}e^{12}, \frac{8}{73}\sqrt{51}e^{13},$ $\frac{16}{73}\sqrt{6}e^{17} + \frac{8}{73}\sqrt{51}e^{24} + \frac{16}{73}\sqrt{6}e^{35}$	$(\frac{11}{73}, -\frac{13}{73}, -\frac{21}{73}, \frac{22}{73}, \frac{30}{73}, \frac{6}{73}, -\frac{2}{73}, -\frac{10}{73}, \frac{9}{73})$ $+ \frac{8}{73}\sqrt{67}e^4 \otimes e_8$	{126789, 12789, 1568, 158, 235689, 23589, 3678, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{248}\sqrt{8711}e^{12}, \frac{1}{248}\sqrt{1686}e^{13},$ $\frac{3}{248}\sqrt{281}e^{17} + \frac{1}{248}\sqrt{36530}e^{24} + \frac{3}{248}\sqrt{281}e^{35}$	$(-\frac{21}{496}, \frac{121}{248}, \frac{103}{496}, -\frac{21}{248}, \frac{97}{496}, -\frac{20}{31}, \frac{221}{496}, \frac{41}{248}, \frac{25}{62})$ $+ \frac{1}{124}\sqrt{28662}e^2 \otimes e_6$	{12348, 1245, 13456789, 14679, 2347, 24578, 34569, 4689}
931:40	$0, 0, 0, 0, 0, 0, \frac{4}{2227}\sqrt{38279}e^{12}, \frac{2}{2227}\sqrt{265630}e^{13},$ $\frac{6}{2227}\sqrt{14746}e^{17} + \frac{2}{2227}\sqrt{217958}e^{24} + \frac{202}{2227}\sqrt{6}e^{35}$	$(\frac{220}{2227}, -\frac{201}{2227}, -\frac{184}{2227}, \frac{440}{2227}, \frac{423}{2227}, -\frac{588}{2227}, \frac{19}{2227}, \frac{36}{2227}, \frac{239}{2227})$ $+ \frac{2}{2227}\sqrt{282598}e^4 \otimes e_8 + \frac{4}{2227}\sqrt{35754}e^3 \otimes e_6$	{126789, 1568, 23589, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{251}\sqrt{1397}e^{12}, \frac{2}{251}\sqrt{3683}e^{13},$ $\frac{4}{251}\sqrt{1905}e^{17} + \frac{4}{251}\sqrt{1270}e^{24} + \frac{4}{251}\sqrt{1905}e^{35}$	$(\frac{2}{251}, -\frac{7}{251}, \frac{13}{251}, \frac{4}{251}, -\frac{16}{251}, 1, -\frac{5}{251}, \frac{15}{251}, -\frac{3}{251})$ $+ \frac{6}{251}\sqrt{2921}e^6 \otimes e_9$	{12389, 1259, 135678, 167, 2379, 25789, 356, 68}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{651}\sqrt{114458}e^{12}, \frac{1}{651}\sqrt{82622}e^{13},$ $\frac{5}{651}\sqrt{3790}e^{17} + \frac{1}{651}\sqrt{3790}e^{24} + \frac{5}{651}\sqrt{3790}e^{35}$	$(-\frac{1}{7}, \frac{193}{651}, \frac{58}{651}, -\frac{2}{7}, -\frac{17}{217}, \frac{386}{651}, \frac{100}{651}, -\frac{5}{93}, \frac{1}{93})$ $+ \frac{1}{651}\sqrt{200870}e^2 \otimes e_4 + \frac{4}{651}\sqrt{14781}e^6 \otimes e_9$	{1345678, 1467, 3456, 468}
931:40	$0, 0, 0, 0, 0, 0, \frac{44}{1195}\sqrt{101}e^{12}, \frac{2}{1195}\sqrt{126654}e^{13},$ $\frac{2}{1195}\sqrt{28482}e^{17} + \frac{2}{1195}\sqrt{104838}e^{24} + \frac{202}{1195}\sqrt{6}e^{35}$	$(\frac{176}{1195}, -\frac{181}{1195}, -\frac{228}{1195}, \frac{352}{1195}, \frac{399}{1195}, -\frac{228}{1195}, -\frac{1}{239}, -\frac{52}{1195}, \frac{171}{1195})$ $+ \frac{2}{239}\sqrt{6262}e^4 \otimes e_8 + \frac{36}{1195}\sqrt{202}e^1 \otimes e_6$	{12789, 158, 235689, 3678}
931:40	$0, 0, 0, 0, 0, 0, \frac{25}{401}\sqrt{30}e^{12}, \frac{15}{401}\sqrt{130}e^{13},$ $\frac{5}{401}\sqrt{310}e^{17} + \frac{5}{401}\sqrt{590}e^{24} + \frac{20}{401}\sqrt{35}e^{35}$	$(-\frac{10}{401}, \frac{93}{401}, -\frac{22}{401}, -\frac{20}{401}, \frac{95}{401}, -\frac{135}{401}, \frac{83}{401}, -\frac{32}{401}, \frac{73}{401})$ $+ \frac{10}{401}\sqrt{435}e^1 \otimes e_6 + \frac{10}{401}\sqrt{470}e^2 \otimes e_8$	{12359, 1578, 2679, 368}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{175}\sqrt{1870}e^{12}, \frac{1}{175}\sqrt{6490}e^{13},$ $\frac{11}{175}\sqrt{30}e^{17} + \frac{1}{35}\sqrt{22}e^{24} + \frac{1}{175}\sqrt{330}e^{35}$	$(\frac{4}{175}, \frac{1}{7}, -\frac{13}{175}, \frac{8}{175}, \frac{46}{175}, -\frac{68}{175}, \frac{29}{175}, -\frac{9}{175}, \frac{33}{175})$ $+ \frac{9}{175}\sqrt{110}e^3 \otimes e_6 + \frac{9}{175}\sqrt{110}e^5 \otimes e_8$	{135, 168, 2389, 2569}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{355}e^{12}, \frac{2}{59}\sqrt{994}e^{13},$ $\frac{1}{59}\sqrt{1065}e^{17} + \frac{1}{59}\sqrt{1633}e^{24} + \frac{1}{59}\sqrt{1065}e^{35}$	$(-\frac{1}{59}, \frac{8}{59}, -\frac{11}{59}, -\frac{2}{59}, \frac{17}{59}, 1, \frac{7}{59}, -\frac{12}{59}, \frac{6}{59})$ $+ \frac{3}{59}\sqrt{781}e^6 \otimes e_8$	{1235679, 12789, 136, 158, 23589, 269, 378, 567}
931:40	$0, 0, 0, 0, 0, 0, \frac{5}{16}\sqrt{2}e^{12}, \frac{1}{16}\sqrt{74}e^{13},$ $\frac{3}{16}\sqrt{3}e^{17} + \frac{1}{8}\sqrt{22}e^{24} + \frac{3}{16}\sqrt{3}e^{35}$	$(\frac{3}{32}, -\frac{13}{80}, -\frac{7}{32}, \frac{3}{16}, \frac{39}{160}, \frac{27}{80}, -\frac{11}{160}, -\frac{1}{8}, \frac{1}{40})$ $+ \frac{1}{16}\sqrt{106}e^4 \otimes e_8 + \frac{1}{16}\sqrt{42}e^6 \otimes e_9$	{12789, 1568, 23589, 3678}
931:40	$0, 0, 0, 0, 0, 0, \frac{96}{373}\sqrt{5}e^{12}, \frac{8}{373}\sqrt{1155}e^{13},$ $\frac{32}{373}\sqrt{35}e^{17} + \frac{8}{373}\sqrt{1155}e^{24} + \frac{32}{373}\sqrt{30}e^{35}$	$(\frac{55}{373}, -\frac{57}{373}, -\frac{105}{373}, \frac{110}{373}, \frac{158}{373}, -\frac{2}{373}, -\frac{2}{373}, -\frac{50}{373}, \frac{53}{373})$ $+ \frac{32}{373}\sqrt{10}e^5 \otimes e_6 + \frac{8}{373}\sqrt{1555}e^4 \otimes e_8$	{126789, 158, 23589, 3678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{431}\sqrt{3542e^{12}}, \frac{4}{431}\sqrt{3542e^{13}},$ $\frac{1}{431}\sqrt{27370e^{17}} + \frac{4}{431}\sqrt{2415e^{24}} + \frac{1}{431}\sqrt{322e^{35}}$	$(-\frac{40}{431}, \frac{154}{431}, \frac{33}{431}, -\frac{80}{431}, \frac{41}{431}, -\frac{128}{431}, \frac{114}{431}, -\frac{7}{431}, \frac{74}{431})$ $+\frac{1}{431}\sqrt{71806e^2} \otimes e_8 + \frac{28}{431}\sqrt{69e^3} \otimes e_6$	{123579, 1568, 269, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{626}\sqrt{47874e^{12}}, \frac{1}{313}\sqrt{25755e^{13}},$ $\frac{5}{313}\sqrt{606e^{17}} + \frac{1}{626}\sqrt{10605e^{24}} + \frac{3}{626}\sqrt{4242e^{35}}$	$(\frac{81}{1252}, \frac{1}{313}, \frac{193}{626}, \frac{81}{626}, -\frac{55}{313}, -\frac{525}{1252}, \frac{85}{1252}, \frac{467}{1252}, \frac{83}{626})$ $+\frac{1}{313}\sqrt{49389e^1} \otimes e_6 + \frac{1}{626}\sqrt{143319e^3} \otimes e_5$	{1347, 14578, 3468, 456}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{2401}\sqrt{143830e^{12}}, \frac{2}{2401}\sqrt{286903e^{13}},$ $\frac{12}{2401}\sqrt{5299e^{17}} + \frac{2}{2401}\sqrt{271006e^{24}} + \frac{2}{2401}\sqrt{223315e^{35}}$	$(-\frac{41}{2401}, \frac{759}{2401}, -\frac{398}{2401}, \frac{82}{2401}, \frac{1075}{2401}, -\frac{755}{2401}, \frac{718}{2401}, \frac{439}{2401}, \frac{677}{2401})$ $+\frac{2}{2401}\sqrt{780467e^2} \otimes e_6 + \frac{2}{2401}\sqrt{828158e^5} \otimes e_8$	{12345, 1248, 34689, 4569}
931:40	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{355e^{12}}, \frac{1}{59}\sqrt{1633e^{13}},$ $\frac{1}{59}\sqrt{1065e^{17}} + \frac{2}{59}\sqrt{994e^{24}} + \frac{1}{59}\sqrt{1065e^{35}}$	$(\frac{31}{118}, -\frac{17}{118}, \frac{11}{118}, \frac{31}{59}, \frac{17}{59}, -\frac{40}{59}, \frac{7}{59}, \frac{21}{59}, \frac{45}{118})$ $+\frac{3}{59}\sqrt{781e^4} \otimes e_6$	{1235679, 126789, 136, 1568, 235689, 269, 3678, 567}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{636}\sqrt{4090e^{12}}, \frac{7}{636}\sqrt{2454e^{13}},$ $\frac{1}{636}\sqrt{47035e^{17}} + \frac{1}{636}\sqrt{123518e^{24}} + \frac{1}{636}\sqrt{47035e^{35}}$	$(-\frac{83}{1272}, \frac{187}{636}, \frac{171}{424}, -\frac{83}{636}, -\frac{305}{1272}, -\frac{37}{106}, \frac{97}{424}, \frac{215}{636}, \frac{26}{159})$ $+\frac{1}{318}\sqrt{56851e^3} \otimes e_5 + \frac{1}{318}\sqrt{59305e^2} \otimes e_6$	{1234, 12458, 23478, 2457}
931:40	$0, 0, 0, 0, 0, 0, \frac{253}{1101}\sqrt{2e^{12}}, \frac{23}{1101}\sqrt{22e^{13}},$ $\frac{46}{1101}\sqrt{55e^{17}} + \frac{23}{1101}\sqrt{110e^{24}} + \frac{46}{1101}\sqrt{55e^{35}}$	$(-\frac{46}{367}, \frac{253}{1101}, \frac{253}{1101}, -\frac{92}{367}, -\frac{92}{367}, \frac{506}{1101}, \frac{115}{1101}, \frac{115}{1101}, -\frac{23}{1101})$ $+\frac{115}{1101}\sqrt{26e^2} \otimes e_4 + \frac{46}{1101}\sqrt{201e^6} \otimes e_9 - \frac{46}{367}\sqrt{15e^3} \otimes e_5$	{1239, 12589, 23789, 2579}
931:40	$0, 0, 0, 0, 0, 0, \frac{253}{1101}\sqrt{2e^{12}}, \frac{23}{1101}\sqrt{22e^{13}},$ $\frac{46}{1101}\sqrt{55e^{17}} + \frac{23}{1101}\sqrt{110e^{24}} + \frac{46}{1101}\sqrt{55e^{35}}$	$(-\frac{46}{367}, \frac{253}{1101}, \frac{253}{1101}, -\frac{92}{367}, -\frac{92}{367}, \frac{506}{1101}, \frac{115}{1101}, \frac{115}{1101}, -\frac{23}{1101})$ $+\frac{115}{1101}\sqrt{26e^2} \otimes e_4 + \frac{46}{1101}\sqrt{201e^6} \otimes e_9 + \frac{46}{367}\sqrt{15e^3} \otimes e_5$	{1239, 12589, 23789, 2579}
931:40	$0, 0, 0, 0, 0, 0, \frac{35}{81}\sqrt{2e^{12}}, \frac{7}{81}\sqrt{30e^{13}},$ $\frac{7}{81}\sqrt{10e^{17}} + \frac{7}{81}\sqrt{30e^{24}} + \frac{7}{81}\sqrt{46e^{35}}$	$(-\frac{7}{81}, \frac{35}{81}, 0, -\frac{14}{81}, \frac{7}{27}, -\frac{28}{81}, \frac{28}{81}, -\frac{7}{81}, \frac{7}{27})$ $+\frac{14}{27}\sqrt{2e^5} \otimes e_6 + \frac{7}{81}\sqrt{74e^2} \otimes e_4$	{134578, 1467, 345, 468}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{712}\sqrt{4031e^{12}}, \frac{712}{712}\sqrt{27202e^{13}},$ $\frac{1}{712}\sqrt{12093e^{17}} + \frac{1}{356}\sqrt{5597e^{24}} + \frac{1}{712}\sqrt{12093e^{35}}$	$(\frac{77}{1424}, -\frac{87}{712}, \frac{19}{1424}, \frac{77}{712}, -\frac{39}{1424}, \frac{21}{712}, -\frac{97}{1424}, \frac{6}{89}, -\frac{5}{356})$ $+\frac{1}{356}\sqrt{6409e^4} \otimes e_8 + \frac{1}{712}\sqrt{14442e^3} \otimes e_5$	{1568, 158, 3678, 378}
931:40	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{30e^{12}}, \frac{4}{53}\sqrt{57e^{13}},$ $\frac{4}{53}\sqrt{35e^{17}} + \frac{12}{53}\sqrt{6e^{24}} + \frac{4}{53}\sqrt{15e^{35}}$	$(\frac{29}{212}, -\frac{3}{212}, -\frac{51}{212}, \frac{29}{106}, \frac{1}{2}, -\frac{35}{106}, \frac{13}{106}, -\frac{11}{106}, \frac{55}{212})$ $+\frac{40}{53}e^5 \otimes e_8 + \frac{4}{53}\sqrt{91e^4} \otimes e_6$	{1356, 168, 23689, 2569}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{138}\sqrt{3914e^{12}}, \frac{1}{138}\sqrt{1030e^{13}},$ $\frac{1}{138}\sqrt{206e^{17}} + \frac{1}{138}\sqrt{103e^{24}} + \frac{1}{138}\sqrt{206e^{35}}$	$(-\frac{15}{92}, \frac{29}{69}, -\frac{7}{276}, -\frac{15}{46}, \frac{11}{92}, \frac{77}{138}, \frac{71}{276}, -\frac{13}{69}, \frac{13}{138})$ $+\frac{1}{138}\sqrt{12566e^2} \otimes e_4 + \frac{1}{138}\sqrt{12669e^6} \otimes e_8$	{1236, 1258, 2378, 2567}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{106}\sqrt{2047e^{12}}, \frac{1}{212}\sqrt{19402e^{13}},$ $\frac{1}{212}\sqrt{6141e^{17}} + \frac{1}{212}\sqrt{7654e^{24}} + \frac{1}{212}\sqrt{6141e^{35}}$	$(-\frac{29}{424}, \frac{17}{212}, \frac{77}{424}, -\frac{29}{212}, -\frac{101}{424}, \frac{113}{212}, \frac{5}{424}, \frac{6}{53}, -\frac{3}{53})$ $+\frac{3}{212}\sqrt{1958e^3} \otimes e_5 + \frac{3}{212}\sqrt{1958e^6} \otimes e_8$	{136, 158, 378, 567}
931:40	$0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{42e^{12}}, \frac{2}{9}\sqrt{14e^{13}},$ $\frac{1}{27}\sqrt{210e^{17}} + \frac{2}{9}\sqrt{14e^{24}} + \frac{1}{27}\sqrt{210e^{35}}$	$(-\frac{4}{27}, \frac{14}{27}, -\frac{1}{9}, -\frac{8}{27}, \frac{1}{3}, \frac{4}{27}, \frac{10}{27}, -\frac{7}{27}, \frac{2}{9})$ $+\frac{1}{27}\sqrt{966e^2} \otimes e_8$	{1234, 12346, 146789, 14789, 24567, 2457, 345689, 34589}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2e^{12}}, \frac{3}{5}\sqrt{2e^{13}} + \frac{3}{10}\sqrt{6e^{24}},$ $\frac{3}{10}\sqrt{6e^{15}} + \frac{3}{10}\sqrt{5e^{27}}$	$(\frac{1}{2}, -\frac{1}{5}, -\frac{1}{4}, \frac{9}{20}, -\frac{2}{5}, \frac{3}{20}, \frac{3}{10}, \frac{1}{4}, \frac{1}{10})$ $+\frac{3}{10}\sqrt{17e^1} \otimes e_5$	{2345678, 234578, 2567, 257, 3568, 358, 45, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{7}{971}\sqrt{6330e^{12}}, \frac{2}{971}\sqrt{136095e^{13}} + \frac{1}{971}\sqrt{647770e^{24}},$ $\frac{1}{971}\sqrt{78070e^{15}} + \frac{1}{971}\sqrt{128710e^{27}}$	$(\frac{13}{971}, \frac{62}{971}, -\frac{97}{971}, -\frac{146}{971}, \frac{124}{971}, 1, \frac{75}{971}, -\frac{84}{971}, \frac{137}{971})$ $+\frac{90}{971}\sqrt{211e^6} \otimes e_8$	{1234679, 12789, 1369, 1489, 238, 246, 3478, 67}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{258}\sqrt{11446e^{12}}, \frac{1}{258}\sqrt{21534e^{13}} + \frac{1}{258}\sqrt{12998e^{24}},$ $\frac{1}{258}\sqrt{12998e^{15}} + \frac{1}{258}\sqrt{9991e^{27}}$	$(\frac{17}{86}, -\frac{23}{258}, \frac{9}{172}, \frac{175}{516}, -\frac{23}{129}, -\frac{167}{516}, \frac{14}{129}, \frac{1}{4}, \frac{5}{258})$ $+\frac{1}{258}\sqrt{25899e^1} \otimes e_5 + \frac{2}{129}\sqrt{1261e^3} \otimes e_6$	{234578, 2567, 358, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2e^{12}}, \frac{3}{65}\sqrt{13e^{13}} + \frac{3}{65}\sqrt{46e^{24}},$ $\frac{9}{65}\sqrt{5e^{15}} + \frac{9}{65}\sqrt{2e^{27}}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{12}{65}, -\frac{12}{65}, -\frac{3}{65}, \frac{3}{65}, \frac{3}{65})$ $+\frac{12}{65}\sqrt{2e^4} \otimes e_6 + \frac{3}{65}\sqrt{29e^3} \otimes e_9 + \frac{3}{65}\sqrt{61e^5} \otimes e_8$	{126789, 1489, 2368, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:41	$0, 0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{13}e^{13} + \frac{3}{65}\sqrt{46}e^{24},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{9}{65}\sqrt{2}e^{27}$	$(-\frac{9}{65}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, \frac{12}{65}, -\frac{12}{65}, -\frac{3}{65}, \frac{3}{65}, \frac{3}{65})$ $+\frac{12}{65}\sqrt{2}e^4 \otimes e_6 + \frac{3}{65}\sqrt{29}e^3 \otimes e_9 - \frac{3}{65}\sqrt{61}e^5 \otimes e_8$	{126789, 1489, 2368, 3478}
931:41	$0, 0, 0, 0, 0, 0, \frac{29}{2461}\sqrt{370}e^{12}, \frac{58}{2461}\sqrt{122}e^{13} + \frac{29}{2461}\sqrt{1262}e^{24},$ $\frac{29}{2461}\sqrt{690}e^{15} + \frac{29}{2461}\sqrt{118}e^{27}$	$(\frac{261}{2461}, -\frac{290}{2461}, -\frac{29}{2461}, \frac{522}{2461}, -\frac{580}{2461}, \frac{1073}{2461}, -\frac{29}{2461}, \frac{232}{2461}, -\frac{319}{2461})$ $+\frac{58}{2461}\sqrt{429}e^6 \otimes e_8 + \frac{58}{2461}\sqrt{469}e^4 \otimes e_9 + \frac{870}{2461}e^1 \otimes e_5$	{23589, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{371}\sqrt{4470}e^{12}, \frac{9}{371}\sqrt{298}e^{13} + \frac{1}{371}\sqrt{34270}e^{24},$ $\frac{1}{371}\sqrt{34270}e^{15} + \frac{18}{371}\sqrt{149}e^{27}$	$(-\frac{68}{371}, \frac{74}{371}, \frac{67}{371}, -\frac{75}{371}, \frac{148}{371}, \frac{82}{371}, \frac{6}{371}, -\frac{1}{371}, \frac{80}{371})$ $+\frac{1}{371}\sqrt{34270}e^3 \otimes e_6 + \frac{1}{371}\sqrt{66454}e^2 \otimes e_4$	{12359, 134579, 2567, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{2961}\sqrt{263846}e^{12}, \frac{10}{2961}\sqrt{9581}e^{13} + \frac{22}{2961}\sqrt{67}e^{24},$ $\frac{20}{987}\sqrt{737}e^{15} + \frac{4}{2961}\sqrt{42009}e^{27}$	$(\frac{727}{2961}, -\frac{101}{987}, -\frac{83}{329}, \frac{283}{2961}, -\frac{202}{987}, \frac{1595}{2961}, \frac{424}{2961}, -\frac{20}{2961}, \frac{121}{2961})$ $+\frac{2}{2961}\sqrt{1006742}e^1 \otimes e_3 + \frac{2}{2961}\sqrt{958837}e^6 \otimes e_9$	{1249, 179, 23467, 36}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{3021}\sqrt{109745}e^{12}, \frac{2}{3021}\sqrt{450655}e^{13} + \frac{2}{3021}\sqrt{237703}e^{24},$ $\frac{40}{3021}\sqrt{467}e^{15} + \frac{2}{1007}\sqrt{32223}e^{27}$	$(-\frac{13}{1007}, -\frac{1}{57}, \frac{263}{1007}, \frac{803}{3021}, -\frac{2}{57}, -\frac{973}{3021}, -\frac{92}{3021}, \frac{250}{1007}, -\frac{145}{3021})$ $+\frac{1}{3021}\sqrt{591689}e^1 \otimes e_6 + \frac{4}{3021}\sqrt{170455}e^3 \otimes e_9$	{12489, 1789, 234678, 368}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{995}\sqrt{68798}e^{12}, \frac{4}{995}\sqrt{5034}e^{13} + \frac{1}{995}\sqrt{179546}e^{24},$ $\frac{3}{995}\sqrt{31882}e^{15} + \frac{1}{995}\sqrt{592334}e^{27}$	$(\frac{11}{995}, \frac{166}{995}, \frac{209}{995}, \frac{54}{995}, \frac{332}{995}, \frac{673}{995}, \frac{177}{995}, \frac{44}{995}, \frac{343}{995})$ $+\frac{2}{995}\sqrt{349863}e^2 \otimes e_6$	{123589, 12459, 13456789, 15679, 23457, 2578, 356, 4568}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{4218}e^{12}, \frac{2}{247}\sqrt{494}e^{13} + \frac{1}{247}\sqrt{3230}e^{24},$ $\frac{1}{247}\sqrt{2926}e^{15} + \frac{2}{247}\sqrt{1007}e^{27}$	$(\frac{1}{13}, 0, -\frac{2}{13}, -\frac{1}{13}, 0, \frac{2}{13}, \frac{1}{13}, -\frac{1}{13}, \frac{1}{13})$ $+\frac{1}{247}\sqrt{3458}e^1 \otimes e_5 + \frac{2}{247}\sqrt{1121}e^2 \otimes e_4 + \frac{2}{247}\sqrt{57}e^6 \otimes e_9$	{2567, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{5}{673}\sqrt{714}e^{12}, \frac{5}{673}\sqrt{714}e^{13} + \frac{10}{673}\sqrt{742}e^{24},$ $\frac{10}{673}\sqrt{742}e^{15} + \frac{5}{673}\sqrt{406}e^{27}$	$(\frac{110}{673}, -\frac{80}{673}, -\frac{65}{673}, \frac{125}{673}, -\frac{160}{673}, \frac{220}{673}, \frac{30}{673}, \frac{45}{673}, -\frac{50}{673})$ $+\frac{140}{673}\sqrt{3}e^1 \otimes e_3 + \frac{140}{673}\sqrt{3}e^6 \otimes e_8 + \frac{5}{673}\sqrt{3990}e^4 \otimes e_9$	{169, 2346}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{2591}\sqrt{10281}e^{12}, \frac{4}{2591}\sqrt{119370}e^{13} + \frac{12}{2591}\sqrt{1610}e^{24},$ $\frac{36}{2591}\sqrt{322}e^{15} + \frac{24}{2591}\sqrt{1610}e^{27}$	$(-\frac{491}{2591}, \frac{38}{2591}, \frac{689}{2591}, \frac{160}{2591}, \frac{76}{2591}, \frac{1302}{2591}, \frac{453}{2591}, \frac{198}{2591}, \frac{415}{2591})$ $+\frac{4}{2591}\sqrt{143106}e^6 \otimes e_8 + \frac{4}{2591}\sqrt{177882}e^3 \otimes e_9$	{1234567, 1356, 24569, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{971}\sqrt{136095}e^{12}, \frac{7}{971}\sqrt{6330}e^{13} + \frac{1}{971}\sqrt{78070}e^{24},$ $\frac{1}{971}\sqrt{647770}e^{15} + \frac{1}{971}\sqrt{128710}e^{27}$	$(\frac{553}{971}, -\frac{73}{971}, -\frac{502}{971}, \frac{124}{971}, \frac{146}{971}, \frac{161}{971}, \frac{480}{971}, \frac{51}{971}, \frac{407}{971})$ $+\frac{90}{971}\sqrt{211}e^1 \otimes e_3$	{1245, 12456, 1567, 157, 2345679, 234579, 3569, 359}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{321}\sqrt{397}e^{12}, \frac{1}{107}\sqrt{11910}e^{13} + \frac{1}{321}\sqrt{34142}e^{24},$ $\frac{1}{321}\sqrt{34142}e^{15} + \frac{1}{321}\sqrt{37318}e^{27}$	$(-\frac{13}{107}, \frac{49}{321}, \frac{62}{107}, \frac{98}{321}, \frac{98}{321}, -\frac{211}{321}, \frac{10}{321}, \frac{49}{107}, \frac{59}{321})$ $+\frac{2}{321}\sqrt{52801}e^3 \otimes e_6$	{12359, 1245689, 134579, 156789, 234578, 2567, 358, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{2353}\sqrt{14315}e^{12}, \frac{6}{2353}\sqrt{5317}e^{13} + \frac{2}{2353}\sqrt{308795}e^{24},$ $\frac{4}{2353}\sqrt{416362}e^{15} + \frac{2}{2353}\sqrt{105522}e^{27}$	$(-\frac{365}{2353}, \frac{21}{181}, \frac{93}{2353}, -\frac{545}{2353}, \frac{42}{181}, \frac{999}{2353}, -\frac{92}{2353}, -\frac{272}{2353}, \frac{1}{13})$ $+\frac{2}{2353}\sqrt{322701}e^6 \otimes e_9 + \frac{2}{2353}\sqrt{553786}e^5 \otimes e_8$	{12789, 1489, 2368, 34678}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{3145}e^{13} + \frac{1}{121}\sqrt{1406}e^{24},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{1}{121}\sqrt{2590}e^{27}$	$(-\frac{13}{121}, -\frac{3}{242}, \frac{58}{121}, \frac{93}{242}, -\frac{3}{121}, -\frac{5}{22}, -\frac{29}{242}, \frac{45}{121}, -\frac{16}{121})$ $+\frac{1}{121}\sqrt{6179}e^4 \otimes e_6 + \frac{1}{121}\sqrt{2405}e^3 \otimes e_9$	{123457, 1356, 2459, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{15}e^{12}, \frac{4}{53}\sqrt{35}e^{13} + \frac{12}{53}\sqrt{6}e^{24},$ $\frac{4}{53}\sqrt{57}e^{15} + \frac{4}{53}\sqrt{30}e^{27}$	$(\frac{21}{53}, -\frac{9}{106}, -\frac{11}{53}, \frac{29}{106}, -\frac{9}{53}, -\frac{35}{106}, \frac{33}{106}, \frac{10}{53}, \frac{12}{53})$ $+\frac{40}{53}e^1 \otimes e_3 + \frac{4}{53}\sqrt{91}e^4 \otimes e_6$	{1245, 1567, 234579, 3569}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{2561}e^{12}, \frac{1}{313}\sqrt{13002}e^{13} + \frac{1}{313}\sqrt{62646}e^{24},$ $\frac{1}{313}\sqrt{62646}e^{15} + \frac{1}{313}\sqrt{36642}e^{27}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{6}{313}, -\frac{120}{313}, \frac{154}{313}, \frac{39}{313}, \frac{28}{313}, -\frac{43}{313}, \frac{105}{313})$ $+\frac{2}{313}\sqrt{26989}e^5 \otimes e_8$	{126789, 12789, 14689, 1489, 2368, 238, 34678, 3478}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{536}\sqrt{72615}e^{12}, \frac{1}{536}\sqrt{72615}e^{13} + \frac{103}{536}\sqrt{6}e^{24},$ $\frac{1}{536}\sqrt{21630}e^{15} + \frac{1}{268}\sqrt{20703}e^{27}$	$(\frac{33}{134}, -\frac{177}{1072}, -\frac{115}{1072}, \frac{163}{536}, -\frac{177}{536}, \frac{33}{67}, \frac{87}{1072}, \frac{149}{1072}, -\frac{45}{536})$ $+\frac{1}{134}\sqrt{10506}e^1 \otimes e_5 + \frac{3}{268}\sqrt{3502}e^6 \otimes e_9$	{2345678, 2567, 3568, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{224}{617}e^{12}, \frac{40}{617}\sqrt{2}e^{13} + \frac{8}{617}\sqrt{442}e^{24},$ $\frac{16}{617}\sqrt{5}e^{15} + \frac{16}{617}\sqrt{191}e^{27}$	$(\frac{24}{617}, \frac{24}{617}, -\frac{104}{617}, -\frac{104}{617}, \frac{48}{617}, \frac{200}{617}, \frac{48}{617}, -\frac{80}{617}, \frac{72}{617})$ $+\frac{16}{617}\sqrt{157}e^6 \otimes e_9 - \frac{8}{617}\sqrt{1030}e^2 \otimes e_4 + \frac{8}{617}\sqrt{638}e^1 \otimes e_3$	{1259, 14579, 23567, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:41	$0, 0, 0, 0, 0, 0, \frac{224}{617}e^{12}, \frac{40}{617}\sqrt{2}e^{13} + \frac{8}{617}\sqrt{442}e^{24},$ $\frac{16}{617}\sqrt{5}e^{15} + \frac{16}{617}\sqrt{191}e^{27}$	$(\frac{24}{617}, \frac{24}{617}, -\frac{104}{617}, -\frac{104}{617}, \frac{48}{617}, \frac{200}{617}, \frac{48}{617}, -\frac{80}{617}, \frac{72}{617})$ $+ \frac{16}{617}\sqrt{157}e^6 \otimes e_9 + \frac{8}{617}\sqrt{1030}e^2 \otimes e_4 + \frac{8}{617}\sqrt{638}e^1 \otimes e_3$	{1259, 14579, 23567, 3456}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{248}\sqrt{281}e^{12}, \frac{3}{248}\sqrt{281}e^{13} + \frac{1}{248}\sqrt{1686}e^{24},$ $\frac{3}{248}\sqrt{36530}e^{15} + \frac{1}{124}\sqrt{8711}e^{27}$	$(-\frac{3}{62}, -\frac{21}{496}, \frac{97}{496}, \frac{47}{248}, -\frac{21}{248}, 1, -\frac{45}{496}, \frac{73}{496}, -\frac{33}{248})$ $+ \frac{1}{124}\sqrt{28662}e^6 \otimes e_9$	{12345678, 12567, 13568, 1456, 2359, 24589, 34579, 5789}
931:41	$0, 0, 0, 0, 0, 0, \frac{124}{6805}\sqrt{57}e^{12}, \frac{31}{6805}\sqrt{2706}e^{13} + \frac{31}{6805}\sqrt{3622}e^{24},$ $\frac{31}{6805}\sqrt{6166}e^{15} + \frac{31}{6805}\sqrt{1270}e^{27}$	$(\frac{899}{6805}, -\frac{341}{6805}, -\frac{62}{6805}, \frac{1178}{6805}, -\frac{682}{6805}, -\frac{1643}{6805}, \frac{558}{6805}, \frac{837}{6805}, \frac{217}{6805})$ $+ \frac{186}{6805}\sqrt{145}e^4 \otimes e_9 + \frac{62}{6805}\sqrt{1011}e^5 \otimes e_6 + \frac{62}{6805}\sqrt{897}e^1 \otimes e_3$	{169, 2346}
931:41	$0, 0, 0, 0, 0, 0, \frac{5}{252}\sqrt{291}e^{12}, \frac{5}{252}\sqrt{291}e^{13} + \frac{5}{42}\sqrt{15}e^{24},$ $\frac{5}{84}\sqrt{82}e^{15} + \frac{5}{126}\sqrt{30}e^{27}$	$(-\frac{1}{36}, -\frac{5}{504}, \frac{15}{56}, \frac{1}{4}, -\frac{5}{252}, -\frac{20}{63}, -\frac{19}{504}, \frac{121}{504}, -\frac{1}{21})$ $+ \frac{5}{126}\sqrt{201}e^4 \otimes e_9 + \frac{5}{84}\sqrt{66}e^5 \otimes e_6$	{1236789, 169, 2346, 4678}
931:41	$0, 0, 0, 0, 0, 0, \frac{7}{367}\sqrt{70}e^{12}, \frac{21}{367}\sqrt{6}e^{13} + \frac{14}{367}\sqrt{93}e^{24},$ $\frac{7}{367}\sqrt{390}e^{15} + \frac{21}{367}\sqrt{10}e^{27}$	$(\frac{35}{367}, \frac{35}{367}, -\frac{63}{367}, -\frac{63}{367}, \frac{70}{367}, \frac{70}{367}, -\frac{63}{367}, \frac{70}{367}, -\frac{28}{367}, \frac{105}{367})$ $+ \frac{14}{367}\sqrt{93}e^2 \otimes e_6 + \frac{35}{367}\sqrt{22}e^5 \otimes e_8 + \frac{7}{367}\sqrt{426}e^1 \otimes e_3$	{1245, 1567, 234579, 3569}
931:41	$0, 0, 0, 0, 0, 0, \frac{7}{367}\sqrt{70}e^{12}, \frac{21}{367}\sqrt{6}e^{13} + \frac{14}{367}\sqrt{93}e^{24},$ $\frac{7}{367}\sqrt{390}e^{15} + \frac{21}{367}\sqrt{10}e^{27}$	$(\frac{35}{367}, \frac{35}{367}, -\frac{63}{367}, -\frac{63}{367}, \frac{70}{367}, \frac{70}{367}, -\frac{63}{367}, \frac{70}{367}, -\frac{28}{367}, \frac{105}{367})$ $+ \frac{14}{367}\sqrt{93}e^2 \otimes e_6 - \frac{35}{367}\sqrt{22}e^5 \otimes e_8 + \frac{7}{367}\sqrt{426}e^1 \otimes e_3$	{1245, 1567, 234579, 3569}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{311}\sqrt{15170}e^{12}, \frac{1}{311}\sqrt{2590}e^{13} + \frac{2}{311}\sqrt{7030}e^{24},$ $\frac{2}{311}\sqrt{7030}e^{15} + \frac{1}{311}\sqrt{7770}e^{27}$	$(-\frac{6}{311}, -\frac{20}{311}, \frac{125}{311}, \frac{139}{311}, -\frac{40}{311}, -\frac{60}{311}, -\frac{26}{311}, \frac{119}{311}, -\frac{46}{311})$ $+ \frac{1}{311}\sqrt{66230}e^4 \otimes e_9 + \frac{8}{311}\sqrt{555}e^3 \otimes e_6$	{123457, 14568, 23589, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{251}\sqrt{1905}e^{12}, \frac{4}{251}\sqrt{1905}e^{13} + \frac{2}{251}\sqrt{3683}e^{24},$ $\frac{4}{251}\sqrt{1270}e^{15} + \frac{2}{251}\sqrt{1397}e^{27}$	$(\frac{91}{251}, \frac{2}{251}, -\frac{16}{251}, \frac{73}{251}, \frac{4}{251}, -\frac{163}{251}, \frac{93}{251}, \frac{75}{251}, \frac{95}{251})$ $+ \frac{6}{251}\sqrt{2921}e^1 \otimes e_6$	{1239, 12489, 13479, 1789, 234678, 267, 368, 46}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065}e^{12}, \frac{1}{59}\sqrt{1065}e^{13} + \frac{1}{59}\sqrt{1633}e^{24},$ $\frac{2}{59}\sqrt{994}e^{15} + \frac{2}{59}\sqrt{355}e^{27}$	$(-\frac{7}{118}, \frac{31}{118}, \frac{17}{59}, -\frac{2}{59}, \frac{31}{59}, -\frac{40}{59}, \frac{12}{59}, \frac{27}{118}, \frac{55}{118})$ $+ \frac{3}{59}\sqrt{781}e^5 \otimes e_6$	{1236789, 124679, 134689, 169, 2346, 268, 367, 4678}
931:41	$0, 0, 0, 0, 0, 0, \frac{36}{167}e^{12}, \frac{6}{167}\sqrt{59}e^{13} + \frac{6}{167}\sqrt{58}e^{24},$ $\frac{6}{167}\sqrt{77}e^{15} + \frac{6}{167}\sqrt{22}e^{27}$	$(-\frac{36}{167}, \frac{21}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, -\frac{15}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{6}{167}\sqrt{115}e^3 \otimes e_9 + \frac{6}{167}\sqrt{133}e^5 \otimes e_8 + \frac{6}{167}\sqrt{58}e^2 \otimes e_6$	{123457, 1356, 2459, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{36}{167}e^{12}, \frac{6}{167}\sqrt{59}e^{13} + \frac{6}{167}\sqrt{58}e^{24},$ $\frac{6}{167}\sqrt{77}e^{15} + \frac{6}{167}\sqrt{22}e^{27}$	$(-\frac{36}{167}, \frac{21}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, -\frac{15}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{6}{167}\sqrt{115}e^3 \otimes e_9 - \frac{6}{167}\sqrt{133}e^5 \otimes e_8 + \frac{6}{167}\sqrt{58}e^2 \otimes e_6$	{123457, 1356, 2459, 5679}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{6014}e^{12}, \frac{1}{275}\sqrt{291}e^{13} + \frac{1}{275}\sqrt{12319}e^{24},$ $\frac{8}{275}\sqrt{97}e^{15} + \frac{2}{275}\sqrt{4462}e^{27}$	$(\frac{28}{275}, \frac{28}{275}, -\frac{69}{275}, -\frac{69}{275}, \frac{56}{275}, \frac{24}{275}, \frac{56}{275}, -\frac{41}{275}, \frac{84}{275})$ $- \frac{1}{275}\sqrt{30361}e^2 \otimes e_4 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_3$	{12569, 1259, 145679, 14579, 23567, 2357, 345, 3456}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{6014}e^{12}, \frac{1}{275}\sqrt{291}e^{13} + \frac{1}{275}\sqrt{12319}e^{24},$ $\frac{8}{275}\sqrt{97}e^{15} + \frac{2}{275}\sqrt{4462}e^{27}$	$(\frac{28}{275}, \frac{28}{275}, -\frac{69}{275}, -\frac{69}{275}, \frac{56}{275}, \frac{24}{275}, \frac{56}{275}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{30361}e^2 \otimes e_4 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_3$	{12569, 1259, 145679, 14579, 23567, 2357, 345, 3456}
931:41	$0, 0, 0, 0, 0, 0, \frac{80}{313}\sqrt{2}e^{12}, \frac{80}{313}\sqrt{2}e^{13} + \frac{16}{313}\sqrt{13}e^{24},$ $\frac{16}{313}\sqrt{13}e^{15} + \frac{16}{313}\sqrt{113}e^{27}$	$(-\frac{52}{313}, \frac{24}{313}, \frac{124}{313}, \frac{48}{313}, \frac{48}{313}, -\frac{104}{313}, -\frac{28}{313}, \frac{72}{313}, -\frac{4}{313})$ $+ \frac{16}{313}\sqrt{139}e^2 \otimes e_6 + \frac{16}{313}\sqrt{139}e^3 \otimes e_9$	{124589, 156789, 234578, 3568}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{295}\sqrt{12513}e^{12}, \frac{1}{295}\sqrt{29973}e^{13} + \frac{1}{590}\sqrt{9894}e^{24},$ $\frac{97}{590}\sqrt{6}e^{15} + \frac{1}{590}\sqrt{33465}e^{27}$	$(\frac{31}{118}, -\frac{34}{295}, -\frac{1}{4}, \frac{151}{1180}, -\frac{68}{295}, \frac{597}{1180}, \frac{87}{590}, \frac{3}{236}, \frac{19}{590})$ $+ \frac{1}{590}\sqrt{169653}e^1 \otimes e_5 + \frac{6}{295}\sqrt{970}e^6 \otimes e_8$	{234578, 2567, 358, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{479}\sqrt{4930}e^{12}, \frac{5}{479}\sqrt{34}e^{13} + \frac{2}{479}\sqrt{2074}e^{24},$ $\frac{2}{479}\sqrt{2074}e^{15} + \frac{1}{479}\sqrt{2822}e^{27}$	$(-\frac{46}{479}, \frac{12}{479}, \frac{53}{479}, -\frac{5}{479}, \frac{24}{479}, \frac{28}{479}, -\frac{34}{479}, \frac{7}{479}, -\frac{22}{479})$ $+ \frac{1}{479}\sqrt{7174}e^4 \otimes e_9 + \frac{4}{479}\sqrt{510}e^5 \otimes e_8$	{1236789, 123789, 4678, 478}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{61}\sqrt{15}e^{12}, \frac{4}{61}\sqrt{15}e^{13} + \frac{4}{61}\sqrt{55}e^{24},$ $\frac{4}{61}\sqrt{55}e^{15} + \frac{20}{61}e^{27}$	$(\frac{17}{61}, -\frac{2}{61}, -\frac{23}{61}, -\frac{4}{61}, -\frac{4}{61}, \frac{34}{61}, \frac{15}{61}, -\frac{6}{61}, \frac{13}{61})$ $+ \frac{12}{61}\sqrt{15}e^1 \otimes e_3 + \frac{12}{61}\sqrt{15}e^6 \otimes e_8$	{1258, 14578, 235789, 34589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{431}\sqrt{27370}e^{12}, \frac{1}{431}\sqrt{322}e^{13} + \frac{4}{431}\sqrt{3542}e^{24},$ $\frac{4}{431}\sqrt{2415}e^{15} + \frac{1}{431}\sqrt{3542}e^{27}$	$(\frac{6}{431}, -\frac{40}{431}, \frac{41}{431}, \frac{87}{431}, -\frac{80}{431}, \frac{208}{431}, -\frac{34}{431}, \frac{47}{431}, -\frac{74}{431})$ $+ \frac{1}{431}\sqrt{71806}e^4 \otimes e_9 + \frac{28}{431}\sqrt{69}e^6 \otimes e_8$	{123789, 169, 2346, 478}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{2591}\sqrt{119370}e^{12}, \frac{8}{2591}\sqrt{10281}e^{13} + \frac{36}{2591}\sqrt{322}e^{24},$ $\frac{12}{2591}\sqrt{1610}e^{15} + \frac{24}{2591}\sqrt{1610}e^{27}$	$(\frac{630}{2591}, \frac{80}{2591}, -\frac{474}{2591}, \frac{76}{2591}, \frac{160}{2591}, -\frac{1024}{2591}, \frac{710}{2591}, \frac{156}{2591}, \frac{790}{2591})$ $+ \frac{4}{2591}\sqrt{143106}e^1 \otimes e_3 + \frac{4}{2591}\sqrt{177882}e^2 \otimes e_6$	{1249, 1679, 2347, 36}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{330}e^{12}, \frac{1}{119}\sqrt{638}e^{13} + \frac{3}{119}\sqrt{110}e^{24},$ $\frac{13}{119}\sqrt{110}e^{15} + \frac{1}{119}\sqrt{1166}e^{27}$	$(\frac{13}{119}, \frac{1}{119}, -\frac{22}{119}, -\frac{10}{119}, \frac{2}{119}, \frac{1}{119}, \frac{2}{119}, -\frac{9}{119}, \frac{15}{119})$ $+ \frac{10}{119}\sqrt{11}e^1 \otimes e_5 + \frac{2}{119}\sqrt{341}e^2 \otimes e_4$	{2567, 257, 45, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{1339}\sqrt{162890}e^{12}, \frac{4}{1339}\sqrt{18258}e^{13} + \frac{4}{1339}\sqrt{20585}e^{24},$ $\frac{2}{1339}\sqrt{123510}e^{15} + \frac{2}{1339}\sqrt{187234}e^{27}$	$(-\frac{167}{1339}, \frac{246}{1339}, -\frac{57}{1339}, -\frac{470}{1339}, \frac{492}{1339}, \frac{79}{1339}, -\frac{224}{1339}, \frac{25}{103})$ $+ \frac{22}{1339}\sqrt{2506}e^2 \otimes e_4 + \frac{2}{1339}\sqrt{123510}e^6 \otimes e_8$	{123569, 1345679, 2567, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{44}{1249}\sqrt{15}e^{12}, \frac{11}{1249}\sqrt{595}e^{13} + \frac{11}{1249}\sqrt{238}e^{24},$ $\frac{11}{1249}\sqrt{715}e^{15} + \frac{11}{1249}\sqrt{2}e^{27}$	$(-\frac{121}{1249}, \frac{88}{1249}, \frac{176}{1249}, -\frac{33}{1249}, \frac{176}{1249}, -\frac{242}{1249}, -\frac{33}{1249}, \frac{55}{1249}, \frac{55}{1249})$ $- \frac{11}{1249}\sqrt{895}e^5 \otimes e_8 + \frac{44}{1249}\sqrt{41}e^1 \otimes e_6 + \frac{55}{1249}\sqrt{31}e^3 \otimes e_9$	{12789, 1489, 2368, 34678}
931:41	$0, 0, 0, 0, 0, 0, \frac{44}{1249}\sqrt{15}e^{12}, \frac{11}{1249}\sqrt{595}e^{13} + \frac{11}{1249}\sqrt{238}e^{24},$ $\frac{11}{1249}\sqrt{715}e^{15} + \frac{11}{1249}\sqrt{2}e^{27}$	$(-\frac{121}{1249}, \frac{88}{1249}, \frac{176}{1249}, -\frac{33}{1249}, \frac{176}{1249}, -\frac{242}{1249}, -\frac{33}{1249}, \frac{55}{1249}, \frac{55}{1249})$ $+ \frac{11}{1249}\sqrt{895}e^5 \otimes e_8 + \frac{44}{1249}\sqrt{41}e^1 \otimes e_6 + \frac{55}{1249}\sqrt{31}e^3 \otimes e_9$	{12789, 1489, 2368, 34678}
931:41	$0, 0, 0, 0, 0, 0, \frac{10}{1601}\sqrt{409}e^{12}, \frac{10}{1601}\sqrt{91}e^{13} + \frac{20}{1601}\sqrt{193}e^{24},$ $\frac{10}{1601}\sqrt{739}e^{15} + \frac{10}{1601}\sqrt{215}e^{27}$	$(-\frac{145}{1601}, \frac{45}{1601}, \frac{185}{1601}, -\frac{5}{1601}, \frac{90}{1601}, -\frac{5}{1601}, -\frac{100}{1601}, \frac{40}{1601}, -\frac{55}{1601})$ $+ \frac{10}{1601}\sqrt{673}e^4 \otimes e_9 + \frac{30}{1601}\sqrt{11}e^2 \otimes e_6 + \frac{70}{1601}\sqrt{15}e^5 \otimes e_8$	{123789, 4678}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{273}e^{12}, \frac{1}{65}\sqrt{462}e^{13} + \frac{7}{65}\sqrt{6}e^{24},$ $\frac{1}{65}\sqrt{714}e^{15} + \frac{2}{65}\sqrt{210}e^{27}$	$(\frac{3}{13}, -\frac{3}{65}, -\frac{1}{13}, \frac{1}{5}, -\frac{6}{65}, -\frac{24}{65}, \frac{12}{65}, \frac{2}{65}, \frac{9}{65})$ $+ \frac{1}{65}\sqrt{1218}e^1 \otimes e_5 + \frac{6}{65}\sqrt{35}e^2 \otimes e_6$	{234578, 257, 3568, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{6}{145}\sqrt{115}e^{12}, \frac{12}{145}\sqrt{5}e^{13} + \frac{18}{145}\sqrt{5}e^{24},$ $\frac{3}{145}\sqrt{70}e^{15} + \frac{9}{145}\sqrt{30}e^{27}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{9}{29})$ $+ \frac{21}{145}\sqrt{10}e^1 \otimes e_3 + \frac{3}{145}\sqrt{590}e^2 \otimes e_4 + \frac{6}{145}\sqrt{65}e^5 \otimes e_6$	{1269, 14679, 2367, 346}
931:41	$0, 0, 0, 0, 0, 0, \frac{6}{145}\sqrt{115}e^{12}, \frac{12}{145}\sqrt{5}e^{13} + \frac{18}{145}\sqrt{5}e^{24},$ $\frac{3}{145}\sqrt{70}e^{15} + \frac{9}{145}\sqrt{30}e^{27}$	$(\frac{3}{29}, \frac{3}{29}, -\frac{6}{29}, -\frac{6}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{6}{29}, -\frac{3}{29}, \frac{9}{29})$ $+ \frac{21}{145}\sqrt{10}e^1 \otimes e_3 - \frac{3}{145}\sqrt{590}e^2 \otimes e_4 + \frac{6}{145}\sqrt{65}e^5 \otimes e_6$	{1269, 14679, 2367, 346}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{85}\sqrt{39}e^{12}, \frac{1}{85}\sqrt{30}e^{13} + \frac{2}{85}\sqrt{66}e^{24},$ $\frac{2}{85}\sqrt{66}e^{15} + \frac{1}{85}\sqrt{10}e^{27}$	$(-\frac{8}{85}, \frac{2}{85}, \frac{9}{85}, -\frac{1}{85}, \frac{4}{85}, \frac{6}{85}, -\frac{6}{85}, \frac{1}{85}, -\frac{4}{85})$ $+ \frac{1}{85}\sqrt{258}e^5 \otimes e_8 + \frac{1}{85}\sqrt{6}e^3 \otimes e_6 + \frac{2}{85}\sqrt{57}e^4 \otimes e_9$	{1236789, 478}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{473}\sqrt{14555}e^{12}, \frac{10}{473}\sqrt{213}e^{13} + \frac{2}{473}\sqrt{9727}e^{24},$ $\frac{8}{473}\sqrt{355}e^{15} + \frac{4}{473}\sqrt{12283}e^{27}$	$(\frac{13}{473}, \frac{61}{473}, -\frac{3}{43}, -\frac{81}{473}, \frac{122}{473}, -\frac{3}{11}, \frac{74}{473}, -\frac{20}{473}, \frac{135}{473})$ $+ \frac{4}{473}\sqrt{4615}e^2 \otimes e_4 + \frac{6}{473}\sqrt{1349}e^1 \otimes e_6$	{12359, 134579, 2567, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{155}\sqrt{10919}e^{12}, \frac{1}{310}\sqrt{5370}e^{13} + \frac{3}{310}\sqrt{3043}e^{24},$ $\frac{2}{155}\sqrt{1253}e^{15} + \frac{1}{310}\sqrt{45466}e^{27}$	$(-\frac{3}{20}, \frac{38}{155}, \frac{39}{620}, -\frac{103}{310}, \frac{76}{155}, -\frac{27}{310}, \frac{59}{620}, -\frac{27}{310}, \frac{211}{620})$ $+ \frac{1}{155}\sqrt{19153}e^2 \otimes e_4 + \frac{1}{310}\sqrt{22017}e^5 \otimes e_6$	{12359, 134579, 257, 45}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{371}\sqrt{1639}e^{12}, \frac{9}{371}\sqrt{298}e^{13} + \frac{6}{371}\sqrt{894}e^{24},$ $\frac{6}{371}\sqrt{894}e^{15} + \frac{1}{371}\sqrt{18178}e^{27}$	$(-\frac{68}{371}, \frac{74}{371}, \frac{67}{371}, -\frac{75}{371}, \frac{148}{371}, -\frac{82}{371}, \frac{6}{371}, -\frac{1}{371}, \frac{80}{371})$ $+ \frac{1}{371}\sqrt{34270}e^3 \otimes e_6 + \frac{1}{371}\sqrt{66454}e^5 \otimes e_8$	{126789, 14689, 238, 3478}
931:41	$0, 0, 0, 0, 0, 0, \frac{11}{565}\sqrt{82}e^{12}, \frac{22}{1695}\sqrt{942}e^{13} + \frac{11}{1695}\sqrt{1146}e^{24},$ $\frac{121}{1695}\sqrt{6}e^{15} + \frac{22}{339}\sqrt{21}e^{27}$	$(\frac{11}{339}, -\frac{154}{1695}, \frac{22}{339}, \frac{319}{1695}, -\frac{308}{1695}, \frac{176}{565}, -\frac{33}{565}, \frac{11}{113}, -\frac{253}{1695})$ $+ \frac{11}{1695}\sqrt{3342}e^1 \otimes e_5 + \frac{22}{1695}\sqrt{915}e^3 \otimes e_9 + \frac{44}{339}\sqrt{6}e^6 \otimes e_8$	{234578, 358}
931:41	$0, 0, 0, 0, 0, 0, \frac{3}{626}\sqrt{4242}e^{12}, \frac{5}{313}\sqrt{606}e^{13} + \frac{1}{626}\sqrt{10605}e^{24},$ $\frac{1}{313}\sqrt{25755}e^{15} + \frac{1}{626}\sqrt{47874}e^{27}$	$(-\frac{287}{1252}, \frac{65}{626}, \frac{579}{1252}, \frac{81}{626}, \frac{65}{313}, -\frac{173}{626}, -\frac{157}{1252}, \frac{73}{313}, -\frac{27}{1252})$ $+ \frac{1}{313}\sqrt{49389}e^3 \otimes e_9 + \frac{1}{626}\sqrt{143319}e^5 \otimes e_6$	{12357, 1345, 259, 4579}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{2363}\sqrt{562}e^{12}, \frac{8}{2363}\sqrt{31}e^{13} + \frac{16}{2363}\sqrt{254}e^{24},$ $\frac{24}{2363}\sqrt{123}e^{15} + \frac{8}{2363}\sqrt{365}e^{27}$	$(-\frac{108}{2363}, \frac{44}{2363}, \frac{164}{2363}, \frac{12}{2363}, \frac{88}{2363}, -\frac{140}{2363}, -\frac{64}{2363}, \frac{56}{2363}, -\frac{20}{2363})$ $+ \frac{24}{2363}\sqrt{118}e^5 \otimes e_8 + \frac{8}{2363}\sqrt{273}e^1 \otimes e_6 + \frac{8}{2363}\sqrt{895}e^4 \otimes e_9$	{123789, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:41	$0, 0, 0, 0, 0, 0, \frac{5}{401}\sqrt{310}e^{12}, \frac{20}{401}\sqrt{35}e^{13} + \frac{15}{401}\sqrt{130}e^{24},$ $\frac{5}{401}\sqrt{590}e^{15} + \frac{25}{401}\sqrt{30}e^{27}$	$(\frac{5}{401}, -\frac{10}{401}, \frac{95}{401}, \frac{110}{401}, -\frac{20}{401}, -\frac{135}{401}, -\frac{5}{401}, \frac{100}{401}, -\frac{15}{401})$ $+ \frac{10}{401}\sqrt{435}e^2 \otimes e_6 + \frac{10}{401}\sqrt{470}e^4 \otimes e_9$	{12389, 1679, 2347, 468}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{431}\sqrt{322}e^{12}, \frac{1}{431}\sqrt{27370}e^{13} + \frac{4}{431}\sqrt{2415}e^{24},$ $\frac{4}{431}\sqrt{3542}e^{15} + \frac{1}{431}\sqrt{3542}e^{27}$	$(\frac{118}{431}, -\frac{68}{431}, -\frac{43}{431}, \frac{143}{431}, -\frac{136}{431}, \frac{40}{431}, \frac{50}{431}, \frac{75}{431}, -\frac{18}{431})$ $+ \frac{1}{431}\sqrt{71806}e^4 \otimes e_9 + \frac{28}{431}\sqrt{69}e^1 \otimes e_3$	{169, 19, 234, 2346}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{65}\sqrt{462}e^{12}, \frac{2}{65}\sqrt{273}e^{13} + \frac{1}{65}\sqrt{714}e^{24},$ $\frac{7}{65}\sqrt{6}e^{15} + \frac{2}{65}\sqrt{210}e^{27}$	$(\frac{1}{13}, -\frac{8}{65}, \frac{2}{13}, \frac{23}{65}, -\frac{16}{65}, \frac{6}{65}, -\frac{3}{65}, \frac{3}{13}, -\frac{11}{65})$ $+ \frac{1}{65}\sqrt{1218}e^1 \otimes e_5 + \frac{6}{65}\sqrt{35}e^3 \otimes e_9$	{2345678, 234578, 3568, 358}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{473}\sqrt{3905}e^{12}, \frac{10}{473}\sqrt{213}e^{13} + \frac{2}{473}\sqrt{8733}e^{24},$ $\frac{12}{473}\sqrt{355}e^{15} + \frac{2}{473}\sqrt{6177}e^{27}$	$(\frac{13}{473}, \frac{61}{473}, -\frac{3}{43}, -\frac{81}{473}, \frac{122}{473}, -\frac{3}{11}, \frac{74}{473}, -\frac{20}{473}, \frac{135}{473})$ $+ \frac{4}{473}\sqrt{4615}e^5 \otimes e_8 + \frac{6}{473}\sqrt{1349}e^1 \otimes e_6$	{12789, 1489, 2368, 34678}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065}e^{12}, \frac{1}{59}\sqrt{1065}e^{13} + \frac{2}{59}\sqrt{994}e^{24},$ $\frac{1}{59}\sqrt{1633}e^{15} + \frac{2}{59}\sqrt{355}e^{27}$	$(\frac{13}{59}, -\frac{1}{59}, \frac{17}{59}, \frac{31}{59}, -\frac{2}{59}, -\frac{40}{59}, \frac{12}{59}, \frac{30}{59}, \frac{11}{59})$ $+ \frac{3}{59}\sqrt{781}e^4 \otimes e_6$	{1236789, 12479, 13489, 169, 234, 268, 367, 478}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{5}e^{12}, \frac{1}{8}\sqrt{5}e^{13} + \frac{1}{8}\sqrt{10}e^{24},$ $\frac{1}{8}\sqrt{10}e^{15} + \frac{1}{8}\sqrt{10}e^{27}$	$(\frac{1}{4}, -\frac{3}{16}, \frac{1}{16}, \frac{1}{2}, -\frac{3}{8}, \frac{1}{8}, \frac{1}{16}, \frac{5}{16}, -\frac{1}{8})$ $+ \frac{1}{4}\sqrt{10}e^4 \otimes e_9 + \frac{1}{8}\sqrt{30}e^1 \otimes e_5$	{12689, 1289, 13679, 1379}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{82}e^{12}, \frac{2}{181}\sqrt{82}e^{13} + \frac{2}{181}\sqrt{1517}e^{24},$ $\frac{4}{181}\sqrt{615}e^{15} + \frac{2}{181}\sqrt{205}e^{27}$	$(\frac{33}{181}, -\frac{20}{181}, \frac{22}{181}, \frac{75}{181}, -\frac{40}{181}, -\frac{49}{181}, \frac{13}{181}, \frac{55}{181}, -\frac{7}{181})$ $+ \frac{2}{181}\sqrt{2829}e^1 \otimes e_6 + \frac{4}{181}\sqrt{943}e^4 \otimes e_9$	{12457, 13458, 25689, 35679}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{210}e^{12}, \frac{1}{27}\sqrt{210}e^{13} + \frac{2}{9}\sqrt{14}e^{24},$ $\frac{1}{9}\sqrt{14}e^{15} + \frac{1}{27}\sqrt{42}e^{27}$	$(\frac{2}{27}, -\frac{4}{27}, \frac{1}{3}, \frac{5}{9}, -\frac{8}{27}, \frac{4}{27}, -\frac{2}{27}, \frac{11}{27}, -\frac{2}{9})$ $+ \frac{1}{27}\sqrt{966}e^4 \otimes e_9$	{124567, 12457, 134568, 13458, 25689, 2589, 35679, 3579}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{1351}\sqrt{1406}e^{12}, \frac{8}{1351}\sqrt{969}e^{13} + \frac{24}{1351}\sqrt{1007}e^{24},$ $\frac{8}{1351}\sqrt{6042}e^{15} + \frac{152}{1351}\sqrt{3}e^{27}$	$(-\frac{148}{1351}, \frac{278}{1351}, \frac{96}{1351}, -\frac{330}{1351}, \frac{556}{1351}, -\frac{330}{1351}, \frac{130}{1351}, -\frac{52}{1351}, \frac{408}{1351})$ $+ \frac{24}{1351}\sqrt{1007}e^2 \otimes e_6 + \frac{8}{1351}\sqrt{13813}e^5 \otimes e_8$	{12789, 14689, 238, 34678}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{16745}e^{12}, \frac{1}{313}\sqrt{13002}e^{13} + \frac{1}{313}\sqrt{45310}e^{24},$ $\frac{1}{313}\sqrt{45310}e^{15} + \frac{1}{313}\sqrt{71314}e^{27}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{6}{313}, -\frac{120}{313}, \frac{154}{313}, \frac{39}{313}, \frac{28}{313}, -\frac{43}{313}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{26989}e^2 \otimes e_4$	{123569, 12359, 1345679, 134579, 2567, 257, 45, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{1}{770}\sqrt{36618}e^{12}, \frac{1}{385}\sqrt{23694}e^{13} + \frac{1}{770}\sqrt{62107}e^{24},$ $\frac{1}{385}\sqrt{57799}e^{15} + \frac{1}{770}\sqrt{82570}e^{27}$	$(\frac{377}{1540}, \frac{41}{770}, -\frac{31}{140}, -\frac{23}{770}, \frac{41}{385}, -\frac{277}{770}, \frac{459}{1540}, \frac{9}{385}, \frac{541}{1540})$ $+ \frac{1}{385}\sqrt{65697}e^1 \otimes e_3 + \frac{1}{770}\sqrt{244479}e^5 \otimes e_6$	{1245, 157, 234579, 359}
931:41	$0, 0, 0, 0, 0, 0, \frac{2}{2353}\sqrt{324746}e^{12}, \frac{6}{2353}\sqrt{5317}e^{13} + \frac{2}{2353}\sqrt{244991}e^{24},$ $\frac{8}{2353}\sqrt{8589}e^{15} + \frac{2}{2353}\sqrt{112066}e^{27}$	$(-\frac{365}{2353}, \frac{21}{181}, \frac{93}{2353}, -\frac{545}{2353}, \frac{42}{181}, \frac{999}{2353}, -\frac{92}{2353}, -\frac{272}{2353}, \frac{1}{13})$ $+ \frac{2}{2353}\sqrt{322701}e^6 \otimes e_9 + \frac{2}{2353}\sqrt{553786}e^2 \otimes e_4$	{12359, 134579, 2567, 456}
931:41	$0, 0, 0, 0, 0, 0, \frac{17}{3181}\sqrt{3390}e^{12}, \frac{34}{3181}\sqrt{383}e^{13} + \frac{17}{3181}\sqrt{2590}e^{24},$ $\frac{17}{3181}\sqrt{2510}e^{15} + \frac{34}{3181}\sqrt{746}e^{27}$	$(\frac{357}{3181}, \frac{34}{3181}, -\frac{578}{3181}, -\frac{255}{3181}, \frac{68}{3181}, \frac{68}{3181}, \frac{391}{3181}, -\frac{221}{3181}, \frac{425}{3181})$ $+ \frac{34}{3181}\sqrt{869}e^2 \otimes e_4 + \frac{68}{3181}\sqrt{15}e^6 \otimes e_8 + \frac{85}{3181}\sqrt{110}e^1 \otimes e_5$	{257, 45}
931:41	$0, 0, 0, 0, 0, 0, \frac{4}{995}\sqrt{5034}e^{12}, \frac{3}{995}\sqrt{68798}e^{13} + \frac{3}{995}\sqrt{31882}e^{24},$ $\frac{1}{995}\sqrt{179546}e^{15} + \frac{1}{995}\sqrt{592334}e^{27}$	$(-\frac{267}{995}, \frac{27}{995}, \frac{626}{995}, \frac{332}{995}, \frac{54}{995}, \frac{161}{995}, -\frac{48}{199}, \frac{359}{995}, -\frac{213}{995})$ $+ \frac{2}{995}\sqrt{349863}e^3 \otimes e_9$	{123567, 12357, 1345, 13456, 2569, 259, 45679, 4579}
931:41	$0, 0, 0, 0, 0, 0, \frac{19}{181}\sqrt{11}e^{12}, \frac{1}{181}\sqrt{57}e^{13} + \frac{1}{181}\sqrt{7258}e^{24},$ $\frac{1}{181}\sqrt{5567}e^{15} + \frac{1}{181}\sqrt{3990}e^{27}$	$(-\frac{9}{181}, \frac{41}{362}, \frac{12}{181}, -\frac{35}{362}, \frac{41}{181}, -\frac{111}{362}, \frac{23}{362}, \frac{3}{181}, \frac{32}{181})$ $+ \frac{1}{181}\sqrt{5073}e^4 \otimes e_6 + \frac{2}{181}\sqrt{1957}e^5 \otimes e_8$	{1236789, 13489, 268, 478}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{139}\sqrt{35}e^{12}, \frac{21}{139}\sqrt{5}e^{13} + \frac{1}{139}\sqrt{2030}e^{24},$ $\frac{5}{139}\sqrt{133}e^{15} + \frac{1}{139}\sqrt{210}e^{27}$	$(-\frac{35}{139}, \frac{18}{139}, \frac{36}{139}, -\frac{17}{139}, \frac{36}{139}, \frac{12}{139}, -\frac{17}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^3 \otimes e_9 + \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{126789, 12789, 14689, 1489, 2368, 238, 34678, 3478}
931:41	$0, 0, 0, 0, 0, 0, \frac{8}{139}\sqrt{35}e^{12}, \frac{21}{139}\sqrt{5}e^{13} + \frac{1}{139}\sqrt{2030}e^{24},$ $\frac{5}{139}\sqrt{133}e^{15} + \frac{1}{139}\sqrt{210}e^{27}$	$(-\frac{35}{139}, \frac{18}{139}, \frac{36}{139}, -\frac{17}{139}, \frac{36}{139}, \frac{12}{139}, -\frac{17}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^3 \otimes e_9 - \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{126789, 12789, 14689, 1489, 2368, 238, 34678, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:42	$0, 0, 0, 0, 0, 0, \frac{6}{3821}\sqrt{17062}e^{12}, \frac{8}{3821}\sqrt{63309}e^{13},$ $\frac{10}{3821}\sqrt{18858}e^{17} + \frac{2}{3821}\sqrt{918654}e^{34} + \frac{1}{3821}\sqrt{35022}e^{56}$	$(\frac{122}{3821}, \frac{524}{3821}, -\frac{1024}{3821}, \frac{1792}{3821}, \frac{1731}{3821}, -\frac{963}{3821}, \frac{646}{3821}, -\frac{902}{3821}, \frac{768}{3821})$ $+ \frac{24}{3821}\sqrt{19307}e^4 \otimes e_8 + \frac{2694}{3821}e^5 \otimes e_6$	{23589, 23689, 2459, 2469}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{17} + \frac{1}{8}\sqrt{6}e^{34} + \frac{1}{8}\sqrt{6}e^{56}$	$(-\frac{1}{4}, \frac{1}{2}, \frac{1}{4}, -\frac{1}{4}, 0, 0, \frac{1}{4}, 0, 0)$ $+ \frac{1}{4}\sqrt{7}e^3 \otimes e_4 + \frac{1}{8}\sqrt{30}e^2 \otimes e_8$	{123, 12356, 24567, 247}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{1621}\sqrt{219894}e^{12}, \frac{2}{1621}\sqrt{200202}e^{13},$ $\frac{1}{1621}\sqrt{33914}e^{17} + \frac{7}{1621}\sqrt{7658}e^{34} + \frac{1}{1621}\sqrt{499958}e^{56}$	$(\frac{253}{1621}, -\frac{294}{1621}, -\frac{260}{1621}, \frac{472}{1621}, \frac{540}{1621}, -\frac{328}{1621}, -\frac{41}{1621}, -\frac{7}{1621}, \frac{212}{1621})$ $+ \frac{2}{1621}\sqrt{237398}e^5 \otimes e_8 + \frac{4}{1621}\sqrt{42666}e^1 \otimes e_2$	{1356, 148, 234689, 259}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{40}\sqrt{178}e^{17} + \frac{1}{40}\sqrt{178}e^{34} + \frac{1}{80}\sqrt{1335}e^{56}$	$(-\frac{47}{160}, \frac{61}{80}, -\frac{9}{160}, \frac{37}{160}, \frac{7}{80}, \frac{7}{80}, \frac{15}{32}, -\frac{7}{20}, \frac{7}{40})$ $+ \frac{1}{80}\sqrt{11659}e^2 \otimes e_8$	{123, 12356, 15789, 24567, 247, 34589}
931:42	$0, 0, 0, 0, 0, 0, \frac{2}{311}\sqrt{2490}e^{17} + \frac{6}{311}\sqrt{498}e^{12}, \frac{4}{311}\sqrt{498}e^{13},$ $\frac{2}{311}\sqrt{2490}e^{34} + \frac{4}{311}\sqrt{2490}e^{34} + \frac{2}{311}\sqrt{3486}e^{56}$	$(\frac{26}{311}, \frac{44}{311}, \frac{44}{311}, \frac{52}{311}, \frac{297}{311}, -\frac{201}{311}, \frac{70}{311}, \frac{70}{311}, \frac{96}{311})$ $+ \frac{498}{311}e^5 \otimes e_6$	{12359, 12369, 124589, 124689, 235789, 236789, 24579, 24679}
931:42	$0, 0, 0, 0, 0, 0, \frac{6}{3821}\sqrt{17062}e^{12}, \frac{8}{3821}\sqrt{63309}e^{13},$ $\frac{2}{3821}\sqrt{918654}e^{17} + \frac{10}{3821}\sqrt{18858}e^{34} + \frac{2}{3821}\sqrt{35022}e^{56}$	$(\frac{1154}{3821}, \frac{1540}{3821}, \frac{8}{3821}, \frac{760}{3821}, \frac{1731}{3821}, -\frac{963}{3821}, -\frac{386}{3821}, \frac{1162}{3821}, \frac{768}{3821})$ $+ \frac{24}{3821}\sqrt{19307}e^1 \otimes e_2 + \frac{2694}{3821}e^5 \otimes e_6$	{13459, 13469, 1589, 1689}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{304}\sqrt{21489}e^{17} + \frac{13}{304}\sqrt{29}e^{12}, \frac{1}{304}\sqrt{97266}e^{13},$ $\frac{1}{304}\sqrt{21489}e^{34} + \frac{1}{304}\sqrt{21489}e^{34} + \frac{3}{152}\sqrt{754}e^{56}$	$(-\frac{47}{608}, \frac{77}{304}, \frac{407}{608}, -\frac{347}{608}, \frac{15}{304}, \frac{15}{304}, \frac{107}{608}, \frac{45}{76}, \frac{15}{152})$ $+ \frac{1}{304}\sqrt{190762}e^3 \otimes e_4$	{13, 1356, 14568, 148, 35678, 378, 4567, 47}
931:42	$0, 0, 0, 0, 0, 0, \frac{31}{8829}\sqrt{278}e^{12}, \frac{31}{8829}\sqrt{8310}e^{13},$ $\frac{124}{8829}\sqrt{79}e^{17} + \frac{2943}{8829}\sqrt{3506}e^{34} + \frac{62}{8829}\sqrt{1069}e^{56}$	$(\frac{124}{2943}, -\frac{589}{8829}, \frac{62}{981}, -\frac{403}{8829}, \frac{1891}{8829}, -\frac{1736}{8829}, -\frac{217}{8829}, \frac{310}{2943}, \frac{155}{8829})$ $+ \frac{31}{2943}\sqrt{806}e^5 \otimes e_8 + \frac{62}{8829}\sqrt{1121}e^1 \otimes e_2 + \frac{62}{8829}\sqrt{1279}e^3 \otimes e_4$	{1356, 148}
931:42	$0, 0, 0, 0, 0, 0, \frac{2}{249}\sqrt{3382}e^{12}, \frac{2}{249}\sqrt{4094}e^{13},$ $\frac{4}{249}\sqrt{178}e^{17} + \frac{4}{249}\sqrt{178}e^{34} + \frac{2}{249}\sqrt{1335}e^{56}$	$(-\frac{47}{249}, \frac{122}{249}, -\frac{3}{83}, \frac{37}{249}, \frac{103}{249}, -\frac{25}{83}, \frac{25}{83}, -\frac{56}{249}, \frac{28}{249})$ $+ \frac{178}{249}e^5 \otimes e_6 + \frac{2}{249}\sqrt{11659}e^2 \otimes e_8$	{15789, 16789, 34589, 34689}
931:42	$0, 0, 0, 0, 0, 0, \frac{3}{1237}\sqrt{17062}e^{12}, \frac{4}{1237}\sqrt{63309}e^{13},$ $\frac{1}{1237}\sqrt{918654}e^{17} + \frac{5}{1237}\sqrt{18858}e^{34} + \frac{1}{1237}\sqrt{35022}e^{56}$	$(\frac{577}{1237}, -\frac{770}{1237}, \frac{4}{1237}, \frac{380}{1237}, \frac{192}{1237}, \frac{192}{1237}, -\frac{193}{1237}, \frac{581}{1237}, \frac{384}{1237})$ $+ \frac{12}{1237}\sqrt{19307}e^1 \otimes e_2$	{13459, 1589, 23568, 238, 24, 2456}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{980}\sqrt{18426}e^{12}, \frac{1}{980}\sqrt{251490}e^{13},$ $\frac{3}{980}\sqrt{10707}e^{17} + \frac{3}{980}\sqrt{10707}e^{34} + \frac{3}{490}\sqrt{4565}e^{56}$	$(-\frac{41}{392}, \frac{209}{980}, \frac{253}{1960}, -\frac{1}{8}, \frac{39}{140}, -\frac{269}{980}, \frac{213}{1960}, \frac{6}{245}, \frac{1}{245})$ $+ \frac{1}{490}\sqrt{67479}e^5 \otimes e_8 + \frac{1}{980}\sqrt{187746}e^3 \otimes e_4$	{1356, 148, 378, 4567}
931:42	$0, 0, 0, 0, 0, 0, \frac{3}{1237}\sqrt{17062}e^{12}, \frac{4}{1237}\sqrt{63309}e^{13},$ $\frac{5}{1237}\sqrt{18858}e^{17} + \frac{1}{1237}\sqrt{918654}e^{34} + \frac{1}{1237}\sqrt{35022}e^{56}$	$(\frac{61}{1237}, \frac{262}{1237}, -\frac{512}{1237}, \frac{896}{1237}, \frac{192}{1237}, \frac{192}{1237}, -\frac{323}{1237}, -\frac{451}{1237}, \frac{384}{1237})$ $+ \frac{12}{1237}\sqrt{19307}e^4 \otimes e_8$	{134, 13456, 1568, 18, 23589, 2459}
931:42	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{102}e^{12}, \frac{2}{23}\sqrt{102}e^{13},$ $\frac{1}{23}\sqrt{170}e^{17} + \frac{1}{23}\sqrt{170}e^{34} + \frac{1}{23}\sqrt{374}e^{56}$	$(-\frac{1}{23}, \frac{6}{23}, -\frac{4}{23}, \frac{8}{23}, \frac{12}{23}, -\frac{8}{23}, \frac{5}{23}, -\frac{5}{23}, \frac{4}{23})$ $+ \frac{2}{23}\sqrt{170}e^5 \otimes e_8$	{1234579, 126789, 1356, 148, 234689, 259, 378, 4567}
931:42	$0, 0, 0, 0, 0, 0, \frac{124}{3969}\sqrt{11}e^{12}, \frac{124}{3969}\sqrt{381}e^{13},$ $\frac{62}{3969}\sqrt{374}e^{17} + \frac{62}{3969}\sqrt{581}e^{34} + \frac{62}{3969}\sqrt{181}e^{56}$	$(\frac{248}{1323}, -\frac{1178}{3969}, \frac{124}{441}, -\frac{806}{3969}, \frac{155}{3969}, \frac{155}{3969}, -\frac{62}{567}, \frac{620}{1323}, \frac{310}{3969})$ $+ \frac{62}{3969}\sqrt{1723}e^3 \otimes e_4 + \frac{62}{3969}\sqrt{1910}e^1 \otimes e_2$	{23568, 238, 24, 2456}
931:43	$0, 0, 0, 0, 0, 0, \frac{5}{338}\sqrt{842}e^{12}, \frac{3}{338}\sqrt{12630}e^{13},$ $\frac{1}{338}\sqrt{21471}e^{27} + \frac{1}{169}\sqrt{8841}e^{34} + \frac{1}{338}\sqrt{21471}e^{56}$	$(-\frac{25}{169}, \frac{119}{676}, \frac{245}{338}, -\frac{88}{169}, \frac{69}{676}, \frac{69}{676}, \frac{19}{26}, \frac{15}{338}, \frac{69}{338})$ $+ \frac{1}{169}\sqrt{58519}e^3 \otimes e_4$	{123567, 1237, 1245678, 12478, 13, 1356, 14568, 148}
931:43	$0, 0, 0, 0, 0, 0, \frac{1}{1345}\sqrt{296322}e^{12}, \frac{2}{1345}\sqrt{337038}e^{13},$ $\frac{2}{1345}\sqrt{7917}e^{27} + \frac{156}{1345}\sqrt{29}e^{34} + \frac{1}{1345}\sqrt{1259934}e^{56}$	$(-\frac{262}{1345}, \frac{348}{1345}, -\frac{81}{1345}, \frac{103}{269}, \frac{788}{1345}, -\frac{354}{1345}, \frac{86}{1345}, -\frac{343}{1345}, \frac{434}{1345})$ $+ \frac{2}{1345}\sqrt{645801}e^5 \otimes e_8$	{1234579, 126789, 13459, 1689, 238, 2456, 378, 4567}
931:43	$0, 0, 0, 0, 0, 0, \frac{1}{1409}\sqrt{659334}e^{12}, \frac{2}{1409}\sqrt{229021}e^{13},$ $\frac{2}{1409}\sqrt{288587}e^{27} + \frac{10}{1409}\sqrt{5135}e^{34} + \frac{3}{1409}\sqrt{6162}e^{56}$	$(-\frac{536}{1409}, \frac{526}{1409}, \frac{35}{1409}, \frac{481}{1409}, \frac{258}{1409}, \frac{258}{1409}, -\frac{10}{1409}, -\frac{501}{1409}, \frac{516}{1409})$ $+ \frac{2}{1409}\sqrt{604903}e^2 \otimes e_8$	{1234569, 12349, 156789, 1789, 2457, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:43	$0, 0, 0, 0, 0, \frac{4}{4409}\sqrt{99830e^{12}}, \frac{4}{4409}\sqrt{365795e^{13}},$ $\frac{10}{4409}\sqrt{1043e^{27}} + \frac{2}{4409}\sqrt{705515e^{34}} + \frac{2}{4409}\sqrt{892510e^{56}}$	$(-\frac{1072}{4409}, \frac{857}{4409}, \frac{1066}{4409}, -\frac{424}{4409}, \frac{1484}{4409}, -\frac{842}{4409}, -\frac{215}{4409}, -\frac{6}{4409}, \frac{642}{4409})$ $+\frac{2}{4409}\sqrt{1286615e^3} \otimes e_4 + \frac{2}{4409}\sqrt{1732870e^5} \otimes e_8$	{123567, 12478, 1356, 148}
931:43	$0, 0, 0, 0, 0, \frac{2}{339}\sqrt{542e^{12}}, \frac{2}{339}\sqrt{3794e^{13}},$ $\frac{2}{339}\sqrt{4065e^{27}} + \frac{2}{339}\sqrt{542e^{34}} + \frac{2}{339}\sqrt{4065e^{56}}$	$(\frac{12}{113}, \frac{35}{339}, \frac{46}{339}, \frac{20}{113}, \frac{108}{339}, -\frac{218}{339}, \frac{71}{113}, \frac{82}{339}, \frac{106}{339})$ $+\frac{542}{339}e^5 \otimes e_6$	{12359, 12369, 124589, 124689, 13579, 13679, 145789, 146789}
931:43	$0, 0, 0, 0, 0, \frac{48}{457}\sqrt{6e^{12}}, \frac{24}{457}\sqrt{93e^{13}},$ $\frac{6}{457}\sqrt{1122e^{27}} + \frac{42}{457}\sqrt{15e^{34}} + \frac{18}{457}e^{56}$	$(-\frac{162}{457}, \frac{126}{457}, \frac{126}{457}, -\frac{36}{457}, \frac{45}{457}, \frac{45}{457}, \frac{36}{457}, -\frac{36}{457}, \frac{90}{457})$ $+\frac{6}{457}\sqrt{1473e^3} \otimes e_4 + \frac{6}{457}\sqrt{2226e^2} \otimes e_8$	{24567, 247, 3568, 38}
931:43	$0, 0, 0, 0, 0, \frac{2}{3845}\sqrt{659334e^{12}}, \frac{4}{3845}\sqrt{229021e^{13}},$ $\frac{4}{3845}\sqrt{288587e^{27}} + \frac{4}{769}\sqrt{5135e^{34}} + \frac{6}{3845}\sqrt{6162e^{56}}$	$(-\frac{1072}{3845}, \frac{1052}{3845}, \frac{14}{769}, \frac{962}{3845}, \frac{1543}{3845}, -\frac{511}{3845}, -\frac{4}{769}, -\frac{1002}{3845}, \frac{1032}{3845})$ $+\frac{2054}{3845}e^5 \otimes e_6 + \frac{4}{3845}\sqrt{604903e^2} \otimes e_8$	{2457, 2467, 358, 368}
931:44	$0, 0, 0, 0, 0, \frac{14}{323}\sqrt{113e^{12}}, \frac{7}{323}\sqrt{210e^{13}} + \frac{35}{323}\sqrt{2e^{24}},$ $\frac{56}{323}\sqrt{5e^{17}} + \frac{14}{323}\sqrt{19e^{56}}$	$(\frac{28}{323}, \frac{28}{323}, -\frac{70}{323}, -\frac{70}{323}, \frac{91}{323}, -\frac{7}{323}, \frac{56}{323}, -\frac{42}{323}, \frac{84}{323})$ $-\frac{7}{323}\sqrt{422e^2} \otimes e_4 + \frac{7}{323}\sqrt{582e^1} \otimes e_3 + \frac{98}{323}e^5 \otimes e_6$	{1457, 1467, 345, 346}
931:44	$0, 0, 0, 0, 0, \frac{14}{323}\sqrt{113e^{12}}, \frac{7}{323}\sqrt{210e^{13}} + \frac{35}{323}\sqrt{2e^{24}},$ $\frac{56}{323}\sqrt{5e^{17}} + \frac{14}{323}\sqrt{19e^{56}}$	$(\frac{28}{323}, \frac{28}{323}, -\frac{70}{323}, -\frac{70}{323}, \frac{91}{323}, -\frac{7}{323}, \frac{56}{323}, -\frac{42}{323}, \frac{84}{323})$ $+\frac{7}{323}\sqrt{422e^2} \otimes e_4 + \frac{7}{323}\sqrt{582e^1} \otimes e_3 + \frac{98}{323}e^5 \otimes e_6$	{1457, 1467, 345, 346}
931:44	$0, 0, 0, 0, 0, \frac{1}{1771}\sqrt{127078e^{12}}, \frac{6}{1771}\sqrt{3130e^{13}} + \frac{2}{1771}\sqrt{93587e^{24}},$ $\frac{8}{1771}\sqrt{626e^{17}} + \frac{1}{1771}\sqrt{356194e^{56}}$	$(\frac{128}{1771}, -\frac{226}{1771}, -\frac{1}{161}, \frac{49}{253}, \frac{430}{1771}, -\frac{400}{1771}, -\frac{14}{253}, \frac{117}{1771}, \frac{30}{1771})$ $+\frac{2}{1771}\sqrt{120818e^4} \otimes e_9 + \frac{2}{1771}\sqrt{129895e^5} \otimes e_8$	{1234567, 1359, 2456, 579}
931:44	$0, 0, 0, 0, 0, \frac{1}{1345}\sqrt{1259934e^{12}}, \frac{156}{1345}\sqrt{29e^{13}} + \frac{2}{1345}\sqrt{7917e^{24}},$ $\frac{2}{1345}\sqrt{337038e^{17}} + \frac{1}{1345}\sqrt{296322e^{56}}$	$(\frac{504}{1345}, -\frac{68}{269}, -\frac{627}{1345}, \frac{217}{1345}, \frac{334}{1345}, \frac{334}{1345}, \frac{164}{1345}, -\frac{123}{1345}, \frac{668}{1345})$ $+\frac{2}{1345}\sqrt{645801e^1} \otimes e_3$	{12569, 129, 1457, 235679, 2379, 345}
931:44	$0, 0, 0, 0, 0, \frac{1}{623}\sqrt{23430e^{12}}, \frac{4}{623}\sqrt{3905e^{13}} + \frac{3}{623}\sqrt{7810e^{24}},$ $\frac{2}{623}\sqrt{3905e^{17}} + \frac{2}{623}\sqrt{23430e^{56}}$	$(\frac{143}{623}, -\frac{51}{623}, \frac{212}{623}, -\frac{18}{623}, \frac{286}{623}, -\frac{51}{623}, \frac{92}{623}, -\frac{69}{623}, \frac{235}{623})$ $+\frac{1}{623}\sqrt{239270e^5} \otimes e_8 + \frac{5}{623}\sqrt{5822e^1} \otimes e_3$	{12689, 1478, 236789, 348}
931:44	$0, 0, 0, 0, 0, \frac{1}{1369}\sqrt{404430e^{12}}, \frac{12}{1369}\sqrt{6405e^{13}} + \frac{2}{1369}\sqrt{165615e^{24}},$ $\frac{2}{1369}\sqrt{129930e^{17}} + \frac{1}{1369}\sqrt{1008330e^{56}}$	$(\frac{204}{1369}, \frac{62}{1369}, -\frac{301}{1369}, -\frac{159}{1369}, \frac{818}{1369}, -\frac{348}{1369}, \frac{266}{1369}, -\frac{97}{1369}, \frac{470}{1369})$ $+\frac{2}{1369}\sqrt{533445e^5} \otimes e_8$	{1234579, 126789, 1356, 148, 23689, 2459, 3478, 567}
931:44	$0, 0, 0, 0, 0, \frac{3}{1409}\sqrt{6162e^{12}}, \frac{10}{1409}\sqrt{5135e^{13}} + \frac{2}{1409}\sqrt{288587e^{24}},$ $\frac{1}{1409}\sqrt{229021e^{17}} + \frac{1}{1409}\sqrt{659334e^{56}}$	$(\frac{62}{1409}, -\frac{304}{1409}, \frac{481}{1409}, \frac{847}{1409}, -\frac{90}{1409}, -\frac{90}{1409}, -\frac{242}{1409}, \frac{543}{1409}, -\frac{180}{1409})$ $+\frac{2}{1409}\sqrt{604903e^4} \otimes e_9$	{124567, 1247, 159, 234, 23456, 3579}
931:44	$0, 0, 0, 0, 0, \frac{2}{4445}\sqrt{1740230e^{12}}, \frac{4}{4445}\sqrt{87873e^{13}} + \frac{4}{4445}\sqrt{44798e^{24}},$ $\frac{4}{889}\sqrt{3446e^{17}} + \frac{2}{635}\sqrt{3446e^{56}}$	$(-\frac{512}{4445}, \frac{1816}{4445}, \frac{698}{4445}, -\frac{326}{889}, \frac{2119}{4445}, -\frac{1327}{4445}, \frac{1304}{4445}, \frac{186}{4445}, \frac{792}{4445})$ $+\frac{3446}{4445}e^5 \otimes e_6 + \frac{4}{4445}\sqrt{959711e^2} \otimes e_4$	{1259, 1269, 23579, 23679}
931:44	$0, 0, 0, 0, 0, \frac{28}{139}\sqrt{6e^{12}}, \frac{7}{139}\sqrt{35e^{13}} + \frac{7}{139}\sqrt{3e^{24}},$ $\frac{56}{139}e^{17} + \frac{14}{139}e^{56}$	$(\frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{14}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $+\frac{14}{139}\sqrt{7e^5} \otimes e_8 + \frac{7}{139}\sqrt{129e^1} \otimes e_3 + \frac{7}{139}\sqrt{97e^2} \otimes e_4$	{12569, 1457, 235679, 345}
931:44	$0, 0, 0, 0, 0, \frac{28}{139}\sqrt{6e^{12}}, \frac{7}{139}\sqrt{35e^{13}} + \frac{7}{139}\sqrt{3e^{24}},$ $\frac{56}{139}e^{17} + \frac{14}{139}e^{56}$	$(\frac{14}{139}, \frac{14}{139}, -\frac{35}{139}, -\frac{35}{139}, \frac{28}{139}, \frac{14}{139}, \frac{28}{139}, -\frac{21}{139}, \frac{42}{139})$ $+\frac{14}{139}\sqrt{7e^5} \otimes e_8 + \frac{7}{139}\sqrt{129e^1} \otimes e_3 - \frac{7}{139}\sqrt{97e^2} \otimes e_4$	{12569, 1457, 235679, 345}
931:44	$0, 0, 0, 0, 0, \frac{1}{1361}\sqrt{1740230e^{12}}, \frac{2}{1361}\sqrt{87873e^{13}} + \frac{2}{1361}\sqrt{44798e^{24}},$ $\frac{10}{1361}\sqrt{3446e^{17}} + \frac{7}{1361}\sqrt{3446e^{56}}$	$(-\frac{256}{1361}, \frac{908}{1361}, \frac{349}{1361}, -\frac{815}{1361}, \frac{198}{1361}, \frac{198}{1361}, \frac{652}{1361}, \frac{93}{1361}, \frac{396}{1361})$ $+\frac{2}{1361}\sqrt{959711e^2} \otimes e_4$	{1259, 14567, 147, 23579, 34, 3456}
931:44	$0, 0, 0, 0, 0, \frac{2}{353}\sqrt{1938e^{12}}, \frac{2}{353}\sqrt{17765e^{13}} + \frac{2}{353}\sqrt{1938e^{24}},$ $\frac{1}{353}\sqrt{30362e^{17}} + \frac{34}{353}\sqrt{57e^{56}}$	$(-\frac{83}{353}, \frac{86}{353}, \frac{243}{353}, \frac{74}{353}, -\frac{40}{353}, -\frac{40}{353}, \frac{3}{353}, \frac{160}{353}, -\frac{80}{353})$ $+\frac{1}{353}\sqrt{187986e^3} \otimes e_9$	{123567, 1237, 1589, 234568, 2348, 4579}
931:44	$0, 0, 0, 0, 0, \frac{32}{1115}\sqrt{110e^{12}}, \frac{64}{1115}\sqrt{33e^{13}} + \frac{16}{1115}\sqrt{182e^{24}},$ $\frac{18}{223}\sqrt{14e^{17}} + \frac{18}{1115}\sqrt{614e^{56}}$	$(-\frac{224}{1115}, \frac{352}{1115}, \frac{416}{1115}, -\frac{32}{223}, \frac{208}{1115}, -\frac{304}{1115}, \frac{128}{1115}, \frac{192}{1115}, -\frac{96}{1115})$ $+\frac{16}{1115}\sqrt{1770e^3} \otimes e_9 + \frac{32}{1115}\sqrt{311e^2} \otimes e_4 + \frac{512}{1115}e^5 \otimes e_6$	{2579, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:44	$0, 0, 0, 0, 0, 0, \frac{48}{767}\sqrt{10}e^{12}, \frac{32}{767}\sqrt{67}e^{13} + \frac{8}{767}\sqrt{354}e^{24},$ $\frac{8}{767}\sqrt{218}e^{17} + \frac{8}{767}\sqrt{1070}e^{56}$	$(-\frac{56}{767}, \frac{88}{767}, \frac{8}{59}, -\frac{40}{767}, \frac{176}{767}, -\frac{200}{767}, \frac{32}{767}, \frac{48}{767}, -\frac{24}{767})$ $+\frac{16}{767}\sqrt{19}e^2 \otimes e_4 + \frac{32}{767}\sqrt{94}e^5 \otimes e_8 + \frac{8}{767}\sqrt{1218}e^3 \otimes e_9$	{126789, 3478}
931:44	$0, 0, 0, 0, 0, 0, \frac{3}{1315}\sqrt{1406}e^{12}, \frac{1}{1315}\sqrt{437266}e^{13} + \frac{74}{1315}\sqrt{57}e^{24},$ $\frac{2}{1315}\sqrt{62567}e^{17} + \frac{2}{1315}\sqrt{134273}e^{56}$	$(\frac{7}{263}, \frac{293}{1315}, -\frac{152}{1315}, -\frac{82}{263}, \frac{586}{1315}, -\frac{223}{1315}, \frac{328}{1315}, -\frac{117}{1315}, \frac{363}{1315})$ $+\frac{1}{1315}\sqrt{1137454}e^5 \otimes e_8 + \frac{1}{1315}\sqrt{487882}e^2 \otimes e_4$	{126789, 148, 23689, 3478}
931:44	$0, 0, 0, 0, 0, 0, \frac{6}{3845}\sqrt{6162}e^{12}, \frac{4}{769}\sqrt{5135}e^{13} + \frac{4}{3845}\sqrt{288587}e^{24},$ $\frac{4}{3845}\sqrt{229021}e^{17} + \frac{2}{3845}\sqrt{659334}e^{56}$	$(\frac{124}{3845}, -\frac{608}{3845}, \frac{962}{3845}, \frac{1694}{3845}, \frac{847}{3845}, -\frac{1207}{3845}, -\frac{484}{3845}, \frac{1086}{3845}, -\frac{72}{769})$ $+\frac{2054}{3845}e^5 \otimes e_6 + \frac{4}{3845}\sqrt{604903}e^4 \otimes e_9$	{159, 169, 3579, 3679}
931:44	$0, 0, 0, 0, 0, 0, \frac{2}{3821}\sqrt{1259934}e^{12}, \frac{312}{3821}\sqrt{29}e^{13} + \frac{4}{3821}\sqrt{7917}e^{24},$ $\frac{4}{3821}\sqrt{337038}e^{17} + \frac{2}{3821}\sqrt{296322}e^{56}$	$(\frac{1008}{3821}, -\frac{680}{3821}, -\frac{1254}{3821}, \frac{434}{3821}, \frac{1799}{3821}, -\frac{463}{3821}, \frac{328}{3821}, -\frac{246}{3821}, \frac{1336}{3821})$ $+\frac{2262}{3821}e^5 \otimes e_6 + \frac{4}{3821}\sqrt{645801}e^1 \otimes e_3$	{1457, 1467, 345, 346}
931:44	$0, 0, 0, 0, 0, 0, \frac{2}{339}\sqrt{4065}e^{12}, \frac{4}{339}\sqrt{542}e^{13} + \frac{2}{339}\sqrt{4065}e^{24},$ $\frac{2}{339}\sqrt{3794}e^{17} + \frac{2}{113}\sqrt{542}e^{56}$	$(\frac{31}{339}, \frac{38}{339}, \frac{20}{113}, \frac{53}{339}, \frac{107}{113}, -\frac{221}{339}, \frac{23}{113}, \frac{91}{339}, \frac{100}{339})$ $+\frac{542}{339}e^5 \otimes e_6$	{123459, 123469, 12589, 12689, 235789, 236789, 24579, 24679}
931:44	$0, 0, 0, 0, 0, 0, \frac{4}{1029}\sqrt{1938}e^{12}, \frac{4}{1029}\sqrt{17765}e^{13} + \frac{4}{1029}\sqrt{1938}e^{24},$ $\frac{2}{1029}\sqrt{30362}e^{17} + \frac{68}{1029}\sqrt{57}e^{56}$	$(-\frac{166}{1029}, \frac{172}{1029}, \frac{162}{343}, \frac{148}{1029}, \frac{81}{343}, -\frac{403}{1029}, \frac{2}{343}, \frac{320}{1029}, -\frac{160}{1029})$ $+\frac{2}{1029}\sqrt{187986}e^3 \otimes e_9 + \frac{646}{1029}e^5 \otimes e_6$	{1589, 1689, 4579, 4679}
931:44	$0, 0, 0, 0, 0, 0, \frac{4}{1037}\sqrt{2958}e^{12}, \frac{30}{1037}\sqrt{145}e^{13} + \frac{1}{1037}\sqrt{43674}e^{24},$ $\frac{1}{1037}\sqrt{26970}e^{17} + \frac{1}{1037}\sqrt{129282}e^{56}$	$(-\frac{69}{1037}, \frac{103}{1037}, \frac{139}{1037}, -\frac{33}{1037}, \frac{4}{17}, -\frac{279}{1037}, \frac{2}{61}, \frac{70}{1037}, -\frac{35}{1037})$ $+\frac{2}{1037}\sqrt{45501}e^5 \otimes e_8 + \frac{3}{1037}\sqrt{16298}e^3 \otimes e_9$	{126789, 1356, 2459, 3478}
931:44	$0, 0, 0, 0, 0, 0, \frac{32}{859}\sqrt{110}e^{12}, \frac{64}{859}\sqrt{33}e^{13} + \frac{16}{859}\sqrt{182}e^{24},$ $\frac{80}{859}\sqrt{14}e^{17} + \frac{16}{859}\sqrt{614}e^{56}$	$(-\frac{224}{859}, \frac{352}{859}, \frac{416}{859}, -\frac{160}{859}, -\frac{48}{859}, -\frac{48}{859}, \frac{128}{859}, \frac{192}{859}, -\frac{96}{859})$ $+\frac{16}{859}\sqrt{1770}e^3 \otimes e_9 + \frac{32}{859}\sqrt{311}e^2 \otimes e_4$	{134567, 1347, 2579}
931:44	$0, 0, 0, 0, 0, 0, \frac{7}{137}\sqrt{113}e^{12}, \frac{7}{274}\sqrt{210}e^{13} + \frac{35}{274}\sqrt{2}e^{24},$ $\frac{28}{137}\sqrt{5}e^{17} + \frac{7}{137}\sqrt{19}e^{56}$	$(\frac{14}{137}, \frac{14}{137}, -\frac{35}{137}, -\frac{35}{137}, \frac{21}{137}, \frac{21}{137}, \frac{28}{137}, -\frac{21}{137}, \frac{42}{137})$ $+\frac{7}{274}\sqrt{422}e^2 \otimes e_4 + \frac{7}{274}\sqrt{582}e^1 \otimes e_3$	{12569, 129, 1457, 235679, 2379, 345}
931:44	$0, 0, 0, 0, 0, 0, \frac{7}{137}\sqrt{113}e^{12}, \frac{7}{274}\sqrt{210}e^{13} + \frac{35}{274}\sqrt{2}e^{24},$ $\frac{28}{137}\sqrt{5}e^{17} + \frac{7}{137}\sqrt{19}e^{56}$	$(\frac{14}{137}, \frac{14}{137}, -\frac{35}{137}, -\frac{35}{137}, \frac{21}{137}, \frac{21}{137}, \frac{28}{137}, -\frac{21}{137}, \frac{42}{137})$ $-\frac{7}{274}\sqrt{422}e^2 \otimes e_4 + \frac{7}{274}\sqrt{582}e^1 \otimes e_3$	{12569, 129, 1457, 235679, 2379, 345}
931:45	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{4}{13}e^{34}, \frac{6}{13}\sqrt{2}e^{13} + \frac{2}{13}\sqrt{3}e^{27} + \frac{2}{13}\sqrt{3}e^{56}$	$(-\frac{8}{65}, \frac{1}{5}, \frac{2}{5}, -\frac{24}{65}, \frac{34}{65}, -\frac{16}{65}, \frac{1}{13}, \frac{2}{65}, \frac{18}{65})$ $+\frac{10}{13}e^5 \otimes e_6 + \frac{2}{13}\sqrt{34}e^3 \otimes e_4$	{245, 246, 457, 467}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{259}\sqrt{218}e^{12}, \frac{8}{259}\sqrt{218}e^{34},$ $\frac{80}{259}\sqrt{2}e^{13} + \frac{16}{259}\sqrt{53}e^{27} + \frac{24}{259}\sqrt{2}e^{56}$	$(\frac{24}{259}, \frac{12}{259}, \frac{24}{259}, -\frac{76}{259}, \frac{8}{37}, -\frac{8}{259}, \frac{36}{259}, -\frac{52}{259}, \frac{48}{259})$ $+\frac{16}{259}\sqrt{97}e^2 \otimes e_8 + \frac{64}{259}e^5 \otimes e_6$	{123459, 123469, 135789, 136789}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{2287}\sqrt{5106}e^{12}, \frac{8}{2287}\sqrt{24886}e^{34},$ $\frac{32}{2287}\sqrt{138}e^{13} + \frac{16}{2287}\sqrt{897}e^{27} + \frac{72}{2287}\sqrt{322}e^{56}$	$(\frac{222}{2287}, \frac{252}{2287}, \frac{504}{2287}, -\frac{968}{2287}, \frac{1008}{2287}, -\frac{282}{2287}, \frac{474}{2287}, -\frac{464}{2287}, \frac{726}{2287})$ $+\frac{16}{2287}\sqrt{14835}e^5 \otimes e_8 + \frac{32}{2287}\sqrt{2047}e^3 \otimes e_4$	{1248, 1478, 246789, 4689}
931:45	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{770}e^{12}, \frac{2}{111}\sqrt{770}e^{34},$ $\frac{10}{111}\sqrt{14}e^{13} + \frac{2}{111}\sqrt{35}e^{27} + \frac{2}{111}\sqrt{35}e^{56}$	$(\frac{44}{111}, -\frac{3}{37}, -\frac{6}{37}, -\frac{8}{111}, \frac{16}{37}, -\frac{22}{111}, \frac{35}{111}, -\frac{26}{111}, \frac{26}{111})$ $+\frac{2}{111}\sqrt{2170}e^1 \otimes e_8 + \frac{70}{111}e^5 \otimes e_6$	{1259, 1269, 1579, 1679}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{143}\sqrt{77}e^{12}, \frac{8}{143}\sqrt{77}e^{34},$ $\frac{32}{143}\sqrt{5}e^{13} + \frac{8}{143}\sqrt{74}e^{27} + \frac{24}{143}e^{56}$	$(\frac{24}{143}, 0, 0, -\frac{32}{143}, \frac{28}{143}, -\frac{4}{143}, \frac{24}{143}, -\frac{32}{143}, \frac{24}{143})$ $+\frac{16}{143}\sqrt{6}e^3 \otimes e_4 + \frac{32}{143}e^5 \otimes e_6 + \frac{8}{143}\sqrt{130}e^2 \otimes e_8$	{123459, 123469}
931:45	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{5}{21}\sqrt{3}e^{34},$ $\frac{1}{7}\sqrt{3}e^{13} + \frac{1}{21}\sqrt{30}e^{27} + \frac{1}{21}\sqrt{30}e^{56}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, 0, \frac{1}{7}, 0, 0)$ $+\frac{1}{21}\sqrt{105}e^1 \otimes e_8 - \frac{1}{7}\sqrt{13}e^4 \otimes e_9$	{1259, 1579, 245678, 2478, 4568, 48}
931:45	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{5}{21}\sqrt{3}e^{34},$ $\frac{1}{7}\sqrt{3}e^{13} + \frac{1}{21}\sqrt{30}e^{27} + \frac{1}{21}\sqrt{30}e^{56}$	$(\frac{2}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, 0, 0, \frac{1}{7}, 0, 0)$ $+\frac{1}{21}\sqrt{105}e^1 \otimes e_8 + \frac{1}{7}\sqrt{13}e^4 \otimes e_9$	{1259, 1579, 245678, 2478, 4568, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{673}\sqrt{1717}e^{12}, \frac{8}{673}\sqrt{4879}e^{34},$ $\frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{102}e^{27} + \frac{8}{673}\sqrt{4845}e^{56}$	$(\frac{202}{673}, \frac{8}{673}, \frac{16}{673}, -\frac{172}{673}, \frac{388}{673}, -\frac{170}{673}, \frac{210}{673}, -\frac{156}{673}, \frac{218}{673})$ $+ \frac{24}{673}\sqrt{1054}e^5 \otimes e_8$	{123459, 123689, 134579, 136789, 234567, 2378, 3456, 38}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{227}\sqrt{218}e^{12}, \frac{8}{227}\sqrt{218}e^{34},$ $\frac{80}{227}\sqrt{2}e^{13} + \frac{16}{227}\sqrt{53}e^{27} + \frac{24}{227}\sqrt{2}e^{56}$	$(\frac{24}{227}, \frac{12}{227}, \frac{24}{227}, -\frac{76}{227}, \frac{24}{227}, \frac{24}{227}, \frac{36}{227}, -\frac{52}{227}, \frac{48}{227})$ $+ \frac{16}{227}\sqrt{97}e^2 \otimes e_8$	{123459, 135789, 234567, 2347, 3568, 38}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{127}\sqrt{77}e^{12}, \frac{8}{127}\sqrt{77}e^{34},$ $\frac{32}{127}\sqrt{5}e^{13} + \frac{12}{127}\sqrt{74}e^{27} + \frac{24}{127}e^{56}$	$(\frac{24}{127}, 0, 0, -\frac{32}{127}, \frac{12}{127}, \frac{12}{127}, \frac{24}{127}, -\frac{32}{127}, \frac{24}{127})$ $+ \frac{16}{127}\sqrt{6}e^3 \otimes e_4 + \frac{8}{127}\sqrt{130}e^2 \otimes e_8$	{123459, 234567, 2347}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{10}\sqrt{10}e^{34},$ $\frac{1}{10}\sqrt{30}e^{13} + \frac{1}{10}\sqrt{5}e^{27} + \frac{1}{10}\sqrt{5}e^{56}$	$(\frac{1}{5}, \frac{1}{20}, \frac{1}{10}, -\frac{2}{5}, \frac{3}{20}, \frac{3}{20}, \frac{1}{4}, -\frac{3}{10}, \frac{3}{10})$ $+ \frac{1}{2}\sqrt{2}e^1 \otimes e_8 + \frac{1}{5}\sqrt{10}e^3 \otimes e_4$	{2356789, 23789, 35689, 389}
931:45	$0, 0, 0, 0, 0, 0, \frac{2}{195}\sqrt{330}e^{12}, \frac{44}{195}\sqrt{5}e^{34},$ $\frac{4}{195}\sqrt{110}e^{13} + \frac{22}{195}\sqrt{15}e^{27} + \frac{22}{195}\sqrt{15}e^{56}$	$(\frac{4}{65}, -\frac{1}{15}, -\frac{2}{15}, \frac{32}{65}, \frac{16}{65}, -\frac{62}{195}, -\frac{1}{195}, \frac{14}{39}, -\frac{14}{195})$ $+ \frac{22}{39}e^5 \otimes e_6 + \frac{2}{195}\sqrt{6270}e^4 \otimes e_9$	{1259, 1269, 1579, 1679}
931:45	$0, 0, 0, 0, 0, 0, \frac{12}{4187}\sqrt{3355}e^{12}, \frac{132}{4187}\sqrt{141}e^{34},$ $\frac{12}{4187}\sqrt{5126}e^{13} + \frac{132}{4187}\sqrt{42}e^{27} + \frac{132}{4187}\sqrt{127}e^{56}$	$(\frac{610}{4187}, -\frac{6}{79}, -\frac{12}{79}, \frac{766}{4187}, \frac{922}{4187}, -\frac{12}{53}, \frac{292}{4187}, \frac{130}{4187}, -\frac{26}{4187})$ $+ \frac{132}{4187}\sqrt{170}e^5 \otimes e_8 + \frac{24}{4187}\sqrt{5137}e^4 \otimes e_9$	{123689, 136789, 234567, 3456}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{330}e^{12}, \frac{11}{35}\sqrt{5}e^{34},$ $\frac{1}{35}\sqrt{110}e^{13} + \frac{11}{70}\sqrt{15}e^{27} + \frac{11}{70}\sqrt{15}e^{56}$	$(\frac{3}{35}, -\frac{13}{140}, -\frac{13}{70}, \frac{24}{35}, -\frac{1}{20}, -\frac{1}{20}, -\frac{1}{140}, \frac{1}{2}, -\frac{1}{10})$ $+ \frac{1}{70}\sqrt{6270}e^4 \otimes e_9$	{1259, 1579, 245678, 2478, 4568, 48}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{3443}\sqrt{1065}e^{12}, \frac{8}{3443}\sqrt{1441}e^{34},$ $\frac{64}{3443}\sqrt{14}e^{13} + \frac{8}{3443}\sqrt{1322}e^{27} + \frac{8}{3443}\sqrt{357}e^{56}$	$(\frac{200}{3443}, -\frac{8}{313}, -\frac{16}{313}, \frac{56}{3443}, \frac{28}{3443}, -\frac{4}{3443}, \frac{112}{3443}, -\frac{120}{3443}, \frac{24}{3443})$ $+ \frac{16}{3443}\sqrt{282}e^4 \otimes e_9 + \frac{32}{3443}e^5 \otimes e_6 + \frac{8}{3443}\sqrt{1930}e^2 \otimes e_8$	{135789, 136789}
931:45	$0, 0, 0, 0, 0, 0, \frac{8}{3427}\sqrt{1065}e^{12}, \frac{8}{3427}\sqrt{1441}e^{34},$ $\frac{64}{3427}\sqrt{14}e^{13} + \frac{8}{3427}\sqrt{1322}e^{27} + \frac{8}{3427}\sqrt{357}e^{56}$	$(\frac{200}{3427}, -\frac{88}{3427}, -\frac{176}{3427}, \frac{56}{3427}, \frac{12}{3427}, \frac{12}{3427}, \frac{112}{3427}, -\frac{120}{3427}, \frac{24}{3427})$ $+ \frac{16}{3427}\sqrt{282}e^4 \otimes e_9 + \frac{8}{3427}\sqrt{1930}e^2 \otimes e_8$	{135789, 234567, 2347}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{2}e^{34}, \frac{3}{4}\sqrt{2}e^{13} + \frac{1}{4}\sqrt{3}e^{27} + \frac{1}{4}\sqrt{3}e^{56}$	$(-\frac{1}{5}, \frac{13}{40}, \frac{13}{20}, -\frac{3}{5}, \frac{9}{40}, \frac{9}{40}, \frac{1}{8}, \frac{1}{20}, \frac{9}{20})$ $+ \frac{1}{4}\sqrt{34}e^3 \otimes e_4$	{1245679, 12479, 14569, 149, 245, 457}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{770}e^{12}, \frac{1}{38}\sqrt{770}e^{34},$ $\frac{5}{38}\sqrt{14}e^{13} + \frac{1}{38}\sqrt{35}e^{27} + \frac{1}{38}\sqrt{35}e^{56}$	$(\frac{11}{19}, -\frac{9}{76}, -\frac{9}{38}, -\frac{2}{38}, \frac{13}{19}, \frac{13}{76}, \frac{35}{76}, -\frac{13}{38}, \frac{13}{38})$ $+ \frac{1}{38}\sqrt{2170}e^1 \otimes e_8$	{1259, 1579, 245678, 2478, 4568, 48}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{8}e^{12}, \frac{5}{24}\sqrt{3}e^{34},$ $\frac{1}{8}\sqrt{3}e^{13} + \frac{1}{24}\sqrt{30}e^{27} + \frac{1}{24}\sqrt{30}e^{56}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{24}\sqrt{105}e^1 \otimes e_8 + \frac{1}{4}e^5 \otimes e_6 + \frac{1}{8}\sqrt{13}e^4 \otimes e_9$	{1259, 1269, 1579, 1679}
931:45	$0, 0, 0, 0, 0, 0, \frac{1}{8}e^{12}, \frac{5}{24}\sqrt{3}e^{34},$ $\frac{1}{8}\sqrt{3}e^{13} + \frac{1}{24}\sqrt{30}e^{27} + \frac{1}{24}\sqrt{30}e^{56}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{24}\sqrt{105}e^1 \otimes e_8 + \frac{1}{4}e^5 \otimes e_6 - \frac{1}{8}\sqrt{13}e^4 \otimes e_9$	{1259, 1269, 1579, 1679}
931:45	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{43}e^{12}, \frac{2}{27}\sqrt{43}e^{34},$ $\frac{1}{27}\sqrt{43}e^{13} + \frac{2}{27}\sqrt{129}e^{27} + \frac{2}{27}\sqrt{129}e^{56}$	$(\frac{4}{27}, \frac{2}{27}, \frac{4}{27}, \frac{7}{54}, \frac{17}{18}, -\frac{35}{54}, \frac{2}{9}, \frac{5}{18}, \frac{8}{27})$ $+ \frac{43}{27}e^5 \otimes e_6$	{123459, 123469, 123589, 123689, 134579, 134679, 135789, 136789}
931:46	$0, 0, 0, 0, 0, 0, \frac{13}{2653}\sqrt{403}e^{12}, \frac{26}{2653}\sqrt{10}e^{34},$ $\frac{26}{2653}\sqrt{394}e^{15} + \frac{13}{2653}\sqrt{406}e^{27} + \frac{13}{2653}\sqrt{574}e^{36}$	$(-\frac{403}{2653}, \frac{26}{379}, \frac{65}{2653}, \frac{130}{379}, \frac{52}{379}, -\frac{104}{2653}, -\frac{221}{2653}, \frac{195}{2653}, -\frac{39}{2653})$ $+ \frac{13}{2653}\sqrt{1149}e^3 \otimes e_6 + \frac{13}{2653}\sqrt{1853}e^4 \otimes e_9 + \frac{13}{2653}\sqrt{1937}e^5 \otimes e_8$	{123457, 1345}
931:46	$0, 0, 0, 0, 0, 0, \frac{50}{1467}\sqrt{6}e^{12}, \frac{100}{1467}\sqrt{15}e^{34},$ $\frac{10}{1467}\sqrt{1965}e^{15} + \frac{10}{1467}\sqrt{1290}e^{27} + \frac{40}{489}\sqrt{55}e^{36}$	$(\frac{20}{163}, \frac{15}{163}, \frac{50}{489}, -\frac{200}{489}, \frac{30}{163}, \frac{100}{489}, \frac{35}{163}, -\frac{50}{163}, \frac{50}{163})$ $+ \frac{10}{1467}\sqrt{10335}e^6 \otimes e_8 + \frac{10}{489}\sqrt{1065}e^3 \otimes e_4$	{1248, 1478, 23789, 389}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{650122}e^{12}, \frac{4}{1397}\sqrt{70311}e^{34},$ $\frac{4}{1397}\sqrt{56045}e^{15} + \frac{1}{1397}\sqrt{34646}e^{27} + \frac{4}{1397}\sqrt{527842}e^{36}$	$(\frac{58}{127}, -\frac{104}{1397}, -\frac{320}{1397}, -\frac{320}{1397}, -\frac{208}{1397}, \frac{491}{1397}, \frac{534}{1397}, -\frac{3}{11}, \frac{430}{1397})$ $+ \frac{1}{1397}\sqrt{2374270}e^1 \otimes e_8$	{123469, 129, 134679, 179, 2378, 24678, 38, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{1433}\sqrt{15834e^{12}}, \frac{26}{1433}\sqrt{1479e^{34}},$ $\frac{6}{1433}\sqrt{21489e^{15}} + \frac{4}{1433}\sqrt{46371e^{27}} + \frac{1}{1433}\sqrt{242034e^{36}}$	$(-\frac{56}{1433}, -\frac{42}{1433}, -\frac{291}{1433}, \frac{991}{1433}, -\frac{84}{1433}, \frac{151}{1433}, -\frac{98}{1433}, \frac{700}{1433}, -\frac{140}{1433})$ $+ \frac{5}{1433}\sqrt{106314e^4} \otimes e_9$	{1234567, 124578, 13456, 1458, 23589, 2569, 35789, 5679}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{1313}\sqrt{346962e^{12}}, \frac{2}{1313}\sqrt{115654e^{34}},$ $\frac{4}{1313}\sqrt{22530e^{15}} + \frac{3}{1313}\sqrt{4506e^{27}} + \frac{3}{1313}\sqrt{1502e^{36}}$	$(\frac{462}{1313}, -\frac{36}{1313}, \frac{231}{1313}, -\frac{40}{1313}, -\frac{72}{1313}, \frac{159}{1313}, \frac{426}{1313}, -\frac{289}{1313}, \frac{30}{101})$ $+ \frac{2}{1313}\sqrt{142690e^3} \otimes e_4 + \frac{3}{1313}\sqrt{127670e^1} \otimes e_8$	{235789, 2456789, 3589, 45689}
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{114e^{12}}, \frac{1}{51}\sqrt{1406e^{34}},$ $\frac{4}{51}\sqrt{19e^{15}} + \frac{2}{51}\sqrt{19e^{27}} + \frac{2}{51}\sqrt{399e^{36}}$	$(\frac{8}{51}, \frac{2}{17}, -\frac{1}{3}, -\frac{1}{17}, \frac{4}{17}, \frac{37}{51}, \frac{14}{51}, -\frac{20}{51}, \frac{20}{51})$ $+ \frac{5}{51}\sqrt{190e^6} \otimes e_8$	{12346, 1248, 13467, 1478, 23789, 2679, 389, 69}
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{1307}\sqrt{93423e^{12}}, \frac{1}{1307}\sqrt{337634e^{34}},$ $\frac{4}{1307}\sqrt{24585e^{15}} + \frac{3}{1307}\sqrt{22946e^{27}} + \frac{3}{1307}\sqrt{193402e^{36}}$	$(\frac{228}{1307}, \frac{171}{1307}, \frac{879}{1307}, -\frac{760}{1307}, \frac{342}{1307}, -\frac{309}{1307}, \frac{399}{1307}, \frac{119}{1307}, \frac{570}{1307})$ $+ \frac{1}{1307}\sqrt{3556630e^3} \otimes e_4$	{1236, 124, 1367, 147, 2379, 24679, 39, 469}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{1123}\sqrt{9955e^{12}}, \frac{2}{3369}\sqrt{617210e^{34}},$ $\frac{22}{3369}\sqrt{2715e^{15}} + \frac{3}{3369}\sqrt{507705e^{27}} + \frac{20}{3369}\sqrt{1991e^{36}}$	$(\frac{264}{1123}, -\frac{509}{3369}, -\frac{454}{3369}, \frac{528}{1123}, -\frac{1018}{3369}, \frac{76}{1123}, \frac{283}{3369}, \frac{1130}{3369}, -\frac{226}{3369})$ $+ \frac{2}{1123}\sqrt{182810e^4} \otimes e_9 + \frac{2}{3369}\sqrt{998215e^1} \otimes e_5$	{12389, 1269, 13789, 1679}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{114}\sqrt{1430e^{12}}, \frac{1}{57}\sqrt{3003e^{34}},$ $\frac{13}{114}\sqrt{11e^{15}} + \frac{1}{38}\sqrt{286e^{27}} + \frac{1}{57}\sqrt{858e^{36}}$	$(\frac{5}{57}, \frac{5}{76}, \frac{14}{19}, -\frac{41}{228}, \frac{5}{38}, -\frac{59}{114}, \frac{35}{228}, \frac{127}{228}, \frac{25}{114})$ $+ \frac{1}{114}\sqrt{26455e^3} \otimes e_6$	{2347, 2378, 24678, 267, 34, 38, 468, 6}
931:46	$0, 0, 0, 0, 0, 0, \frac{5}{63}\sqrt{43e^{12}}, \frac{5}{63}\sqrt{43e^{34}},$ $\frac{1}{42}\sqrt{86e^{15}} + \frac{2}{63}\sqrt{86e^{27}} + \frac{1}{42}\sqrt{86e^{36}}$	$(\frac{25}{63}, -\frac{1}{7}, \frac{25}{63}, -\frac{5}{63}, -\frac{2}{7}, -\frac{2}{7}, \frac{16}{63}, \frac{20}{63}, \frac{1}{9})$ $+ \frac{1}{126}\sqrt{9546e^1} \otimes e_5 - \frac{1}{126}\sqrt{9546e^3} \otimes e_6$	{23457, 23578, 245678, 2567, 345, 358, 4568, 56}
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{333}\sqrt{390e^{12}}, \frac{8}{333}\sqrt{455e^{34}},$ $\frac{4}{333}\sqrt{910e^{15}} + \frac{2}{333}\sqrt{3445e^{27}} + \frac{2}{333}\sqrt{195e^{36}}$	$(-\frac{4}{111}, -\frac{1}{37}, \frac{50}{333}, \frac{100}{333}, -\frac{2}{37}, -\frac{80}{333}, -\frac{7}{55}, \frac{50}{111}, -\frac{10}{111})$ $+ \frac{22}{333}\sqrt{65e^3} \otimes e_6 + \frac{2}{333}\sqrt{11310e^4} \otimes e_9$	{123457, 1245678, 1345, 14568}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{999}\sqrt{164158e^{12}}, \frac{1}{999}\sqrt{113518e^{34}},$ $\frac{4}{999}\sqrt{4431e^{15}} + \frac{5}{999}\sqrt{5486e^{27}} + \frac{2}{333}\sqrt{1266e^{36}}$	$(\frac{181}{999}, -\frac{5}{333}, -\frac{59}{999}, -\frac{167}{999}, -\frac{10}{333}, \frac{70}{333}, \frac{166}{999}, -\frac{226}{999}, \frac{151}{999})$ $+ \frac{10}{999}\sqrt{1266e^1} \otimes e_5 + \frac{2}{999}\sqrt{251934e^2} \otimes e_8$	{23457, 2567, 358, 4568}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{441}\sqrt{3151e^{12}}, \frac{4}{441}\sqrt{2055e^{34}},$ $\frac{2}{441}\sqrt{5617e^{15}} + \frac{2}{441}\sqrt{685e^{27}} + \frac{2}{441}\sqrt{10686e^{36}}$	$(\frac{184}{441}, -\frac{5}{49}, -\frac{86}{441}, -\frac{8}{441}, -\frac{10}{49}, \frac{20}{49}, \frac{139}{441}, -\frac{94}{441}, \frac{94}{441})$ $+ \frac{2}{441}\sqrt{25071e^1} \otimes e_5 + \frac{2}{441}\sqrt{28222e^6} \otimes e_8$	{234567, 24578, 3456, 458}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{1323}\sqrt{295526e^{12}}, \frac{2}{1323}\sqrt{301081e^{34}},$ $\frac{1}{1323}\sqrt{1326534e^{15}} + \frac{8}{1323}\sqrt{1111e^{27}} + \frac{101}{1323}\sqrt{66e^{36}}$	$(-\frac{38}{189}, \frac{121}{441}, -\frac{41}{1323}, -\frac{344}{1323}, \frac{242}{441}, \frac{167}{97}, -\frac{55}{189}, \frac{460}{1323})$ $+ \frac{5}{441}\sqrt{11110e^5} \otimes e_8$	{1236789, 124789, 13689, 1489, 238, 2468, 378, 4678}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{4091}\sqrt{35061e^{12}}, \frac{4}{4091}\sqrt{135966e^{34}},$ $\frac{12}{4091}\sqrt{12307e^{15}} + \frac{8}{4091}\sqrt{10137e^{27}} + \frac{4}{4091}\sqrt{27435e^{36}}$	$(\frac{754}{4091}, -\frac{378}{4091}, -\frac{732}{4091}, \frac{742}{4091}, -\frac{756}{4091}, \frac{730}{4091}, \frac{376}{4091}, \frac{10}{4091}, -\frac{2}{4091})$ $+ \frac{12}{4091}\sqrt{19499e^1} \otimes e_8 + \frac{4}{4091}\sqrt{164517e^4} \otimes e_9$	{129, 179, 24678, 468}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{57}\sqrt{3003e^{12}}, \frac{1}{114}\sqrt{1430e^{34}},$ $\frac{1}{57}\sqrt{858e^{15}} + \frac{1}{38}\sqrt{286e^{27}} + \frac{13}{114}\sqrt{11e^{36}}$	$(\frac{14}{19}, -\frac{59}{228}, \frac{5}{57}, \frac{11}{76}, -\frac{59}{114}, \frac{5}{38}, \frac{109}{228}, \frac{53}{228}, \frac{25}{114})$ $+ \frac{1}{114}\sqrt{26455e^1} \otimes e_5$	{234567, 235678, 24578, 257, 3456, 3568, 458, 5}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{999}\sqrt{113518e^{12}}, \frac{1}{999}\sqrt{164158e^{34}},$ $\frac{2}{333}\sqrt{1266e^{15}} + \frac{5}{999}\sqrt{5486e^{27}} + \frac{4}{999}\sqrt{4431e^{36}}$	$(-\frac{59}{999}, \frac{35}{333}, \frac{181}{999}, -\frac{287}{999}, \frac{70}{333}, -\frac{10}{333}, \frac{46}{999}, -\frac{106}{999}, \frac{151}{999})$ $+ \frac{10}{999}\sqrt{1266e^3} \otimes e_6 + \frac{1}{999}\sqrt{251934e^2} \otimes e_8$	{23457, 2567, 358, 4568}
931:46	$0, 0, 0, 0, 0, 0, \frac{20}{137}\sqrt{5e^{12}}, \frac{20}{411}\sqrt{15e^{34}},$ $\frac{10}{411}\sqrt{129e^{15}} + \frac{10}{411}\sqrt{39e^{27}} + \frac{10}{137}\sqrt{38e^{36}}$	$(\frac{40}{137}, -\frac{5}{137}, \frac{10}{137}, -\frac{40}{137}, -\frac{10}{137}, \frac{20}{137}, \frac{35}{137}, -\frac{30}{137}, \frac{30}{137})$ $+ \frac{10}{137}\sqrt{35e^1} \otimes e_5 + \frac{10}{411}\sqrt{426e^6} \otimes e_8 + \frac{20}{137}\sqrt{11e^3} \otimes e_4$	{1248, 1478}
931:46	$0, 0, 0, 0, 0, 0, \frac{8}{3969}\sqrt{72215e^{12}}, \frac{4}{1323}\sqrt{6565e^{34}},$ $\frac{2}{3969}\sqrt{610545e^{15}} + \frac{10}{3969}\sqrt{1313e^{27}} + \frac{26}{3969}\sqrt{7474e^{36}}$	$(\frac{1760}{3969}, -\frac{433}{3969}, \frac{478}{1323}, -\frac{1192}{3969}, -\frac{866}{3969}, -\frac{20}{147}, \frac{1327}{3969}, \frac{242}{3969}, \frac{298}{1323})$ $+ \frac{26}{3969}\sqrt{13938e^3} \otimes e_4 + \frac{2}{3969}\sqrt{2301689e^1} \otimes e_5$	{1236, 124, 1367, 147}
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{3601}\sqrt{149129e^{12}}, \frac{2}{3601}\sqrt{255115e^{34}},$ $\frac{2}{3601}\sqrt{2955e^{15}} + \frac{20}{3601}\sqrt{2561e^{27}} + \frac{4}{3601}\sqrt{13987e^{36}}$	$(-\frac{359}{3601}, \frac{199}{3601}, -\frac{628}{3601}, \frac{433}{3601}, \frac{398}{3601}, \frac{667}{3601}, -\frac{160}{3601}, -\frac{15}{277}, \frac{3}{277})$ $+ \frac{2}{3601}\sqrt{264965e^4} \otimes e_9 + \frac{2}{3601}\sqrt{368981e^2} \otimes e_8$	{1259, 1356789, 23457, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{11}e^{12}, \frac{4}{11}e^{34}, \frac{4}{11}e^{15} + \frac{2}{11}e^{27} + \frac{2}{11}e^{36}$	$(-\frac{2}{11}, \frac{1}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, 0, 0)$ $+ \frac{2}{11}\sqrt{5}e^4 \otimes e_9 + \frac{2}{11}\sqrt{5}e^5 \otimes e_8$	{123457, 1345, 259, 579}
931:46	$0, 0, 0, 0, 0, 0, \frac{1}{279}\sqrt{28558}e^{12}, \frac{1}{279}\sqrt{28558}e^{34},$ $\frac{4}{279}\sqrt{786}e^{15} + \frac{5}{279}\sqrt{1310}e^{27} + \frac{4}{279}\sqrt{786}e^{36}$	$(-\frac{19}{279}, \frac{5}{31}, -\frac{19}{279}, -\frac{67}{279}, \frac{10}{31}, \frac{10}{31}, \frac{26}{279}, -\frac{86}{279}, \frac{71}{279})$ $+ \frac{1}{279}\sqrt{62094}e^2 \otimes e_8$	{1234569, 1259, 1356789, 145789, 23457, 2567, 358, 4568}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{87}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{237}e^{34},$ $\frac{2}{87}\sqrt{66}e^{15} + \frac{2}{87}\sqrt{102}e^{27} + \frac{2}{29}\sqrt{17}e^{36}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, 0, 0)$ $+ \frac{2}{29}\sqrt{47}e^4 \otimes e_9 - \frac{2}{87}\sqrt{339}e^6 \otimes e_8 + \frac{4}{29}\sqrt{5}e^1 \otimes e_5$	{12389, 1269, 13789, 1679}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{29}\sqrt{2}e^{12}, \frac{2}{87}\sqrt{237}e^{34},$ $\frac{2}{87}\sqrt{66}e^{15} + \frac{2}{87}\sqrt{102}e^{27} + \frac{2}{29}\sqrt{17}e^{36}$	$(\frac{4}{29}, -\frac{2}{29}, -\frac{8}{29}, \frac{8}{29}, -\frac{4}{29}, \frac{8}{29}, \frac{2}{29}, 0, 0)$ $+ \frac{2}{29}\sqrt{47}e^4 \otimes e_9 + \frac{2}{87}\sqrt{339}e^6 \otimes e_8 + \frac{4}{29}\sqrt{5}e^1 \otimes e_5$	{12389, 1269, 13789, 1679}
931:46	$0, 0, 0, 0, 0, 0, \frac{8}{4329}\sqrt{14915}e^{12}, \frac{4}{4329}\sqrt{340690}e^{34},$ $\frac{10}{4329}\sqrt{40506}e^{15} + \frac{2}{4329}\sqrt{8635}e^{27} + \frac{4}{4329}\sqrt{690015}e^{36}$	$(-\frac{608}{4329}, \frac{77}{481}, \frac{1174}{4329}, -\frac{1358}{4329}, \frac{154}{481}, -\frac{44}{4329}, \frac{85}{4329}, -\frac{184}{4329}, \frac{778}{4329})$ $+ \frac{2}{4329}\sqrt{1297605}e^3 \otimes e_6 + \frac{2}{4329}\sqrt{1803930}e^5 \otimes e_8$	{238, 2468, 378, 4678}
931:46	$0, 0, 0, 0, 0, 0, \frac{5}{63}\sqrt{43}e^{12}, \frac{5}{63}\sqrt{43}e^{34},$ $\frac{1}{42}\sqrt{86}e^{15} + \frac{5}{63}\sqrt{86}e^{27} + \frac{1}{42}\sqrt{86}e^{36}$	$(\frac{25}{63}, -\frac{1}{7}, \frac{25}{63}, -\frac{5}{63}, -\frac{2}{7}, -\frac{2}{7}, \frac{16}{63}, \frac{20}{9})$ $+ \frac{1}{126}\sqrt{9546}e^1 \otimes e_5 + \frac{1}{126}\sqrt{9546}e^3 \otimes e_6$	{23457, 23578, 245678, 2567, 345, 358, 4568, 56}
931:46	$0, 0, 0, 0, 0, 0, \frac{2}{2299}\sqrt{359934}e^{12}, \frac{2}{2299}\sqrt{80065}e^{34},$ $\frac{10}{2299}\sqrt{7170}e^{15} + \frac{2}{2299}\sqrt{380010}e^{27} + \frac{12}{2299}\sqrt{1673}e^{36}$	$(-\frac{81}{2299}, \frac{336}{2299}, \frac{168}{2299}, -\frac{788}{2299}, \frac{672}{2299}, \frac{423}{2299}, \frac{255}{2299}, -\frac{620}{2299}, \frac{591}{2299})$ $+ \frac{2}{2299}\sqrt{198370}e^3 \otimes e_4 + \frac{46}{2299}\sqrt{1434}e^2 \otimes e_8$	{1356789, 145789, 358, 4568}
931:46	$0, 0, 0, 0, 0, 0, \frac{4}{4377}\sqrt{109802}e^{12}, \frac{4}{4377}\sqrt{305877}e^{34},$ $\frac{2}{4377}\sqrt{683054}e^{15} + \frac{2}{4377}\sqrt{62031}e^{27} + \frac{2}{4377}\sqrt{549723}e^{36}$	$(\frac{1232}{4377}, -\frac{85}{1459}, \frac{358}{1459}, -\frac{1268}{4377}, -\frac{170}{1459}, -\frac{352}{4377}, \frac{977}{4377}, -\frac{194}{4377}, \frac{722}{4377})$ $+ \frac{2}{1459}\sqrt{186806}e^1 \otimes e_8 + \frac{2}{4377}\sqrt{1120123}e^3 \otimes e_6$	{2378, 24678, 38, 468}
931:47	$0, 0, 0, 0, 0, 0, \frac{14}{169}\sqrt{89}e^{12}, \frac{2}{169}\sqrt{4717}e^{13} + \frac{4}{169}\sqrt{178}e^{45},$ $\frac{1}{169}\sqrt{2759}e^{16} + \frac{4}{169}\sqrt{445}e^{27}$	$(\frac{98}{169}, -\frac{40}{169}, -\frac{24}{169}, \frac{37}{169}, \frac{37}{169}, -\frac{80}{169}, \frac{58}{169}, \frac{74}{169}, \frac{18}{169})$ $+ \frac{4}{169}\sqrt{3115}e^1 \otimes e_6$	{2345678, 23678, 2467, 34568, 368, 46}
931:47	$0, 0, 0, 0, 0, 0, \frac{14}{229}\sqrt{14}e^{12}, \frac{14}{229}\sqrt{78}e^{13} + \frac{42}{229}\sqrt{2}e^{45},$ $\frac{14}{229}e^{16} + \frac{42}{229}\sqrt{5}e^{27}$	$(\frac{28}{229}, -\frac{35}{229}, \frac{56}{229}, \frac{42}{229}, \frac{42}{229}, -\frac{70}{229}, -\frac{7}{229}, \frac{84}{229}, -\frac{42}{229})$ $+ \frac{14}{229}\sqrt{110}e^3 \otimes e_9 + \frac{14}{229}\sqrt{95}e^1 \otimes e_6$	{2345678, 23678, 34568, 368}
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{749}e^{12}, \frac{1}{67}\sqrt{321}e^{13} + \frac{2}{67}\sqrt{214}e^{45},$ $\frac{1}{67}\sqrt{321}e^{16} + \frac{2}{67}\sqrt{214}e^{27}$	$(\frac{7}{67}, \frac{6}{67}, \frac{12}{67}, \frac{63}{67}, -\frac{44}{67}, \frac{12}{67}, \frac{13}{67}, \frac{19}{67}, \frac{19}{67})$ $+ \frac{107}{67}e^4 \otimes e_5$	{12489, 12589, 14789, 15789, 23478, 23578, 348, 358}
931:47	$0, 0, 0, 0, 0, 0, \frac{26}{5197}\sqrt{683}e^{12}, \frac{39}{5197}\sqrt{186}e^{13} + \frac{598}{5197}e^{45},$ $\frac{39}{5197}\sqrt{170}e^{16} + \frac{52}{5197}\sqrt{199}e^{27}$	$(\frac{221}{5197}, \frac{26}{5197}, -\frac{364}{5197}, -\frac{585}{5197}, \frac{442}{5197}, \frac{52}{5197}, \frac{247}{5197}, -\frac{143}{5197}, \frac{273}{5197})$ $+ \frac{117}{5197}\sqrt{62}e^2 \otimes e_8 + \frac{13}{5197}\sqrt{2054}e^5 \otimes e_9 + \frac{26}{5197}\sqrt{593}e^1 \otimes e_6$	{24567, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{8}{223}\sqrt{35}e^{12}, \frac{8}{223}\sqrt{57}e^{13} + \frac{4}{223}\sqrt{106}e^{45},$ $\frac{4}{223}\sqrt{102}e^{16} + \frac{4}{223}\sqrt{310}e^{27}$	$(-\frac{44}{223}, \frac{24}{223}, \frac{36}{223}, -\frac{20}{223}, \frac{12}{223}, \frac{48}{223}, -\frac{20}{223}, -\frac{8}{223}, \frac{4}{223})$ $+ \frac{32}{223}e^5 \otimes e_4 + \frac{4}{223}\sqrt{282}e^3 \otimes e_9 + \frac{8}{223}\sqrt{114}e^2 \otimes e_8$	{146789, 156789, 3468, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{8}{223}\sqrt{35}e^{12}, \frac{8}{223}\sqrt{57}e^{13} + \frac{4}{223}\sqrt{106}e^{45},$ $\frac{4}{223}\sqrt{102}e^{16} + \frac{4}{223}\sqrt{310}e^{27}$	$(-\frac{44}{223}, \frac{24}{223}, \frac{36}{223}, -\frac{20}{223}, \frac{12}{223}, \frac{48}{223}, -\frac{20}{223}, -\frac{8}{223}, \frac{4}{223})$ $- \frac{32}{223}e^5 \otimes e_4 + \frac{4}{223}\sqrt{282}e^3 \otimes e_9 + \frac{8}{223}\sqrt{114}e^2 \otimes e_8$	{146789, 156789, 3468, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{2}{9}\sqrt{6}e^{13} + \frac{2}{9}\sqrt{10}e^{45},$ $\frac{4}{9}\sqrt{3}e^{16} + \frac{2}{9}\sqrt{2}e^{27}$	$(-\frac{2}{9}, \frac{1}{3}, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{9}, \frac{1}{9}, -\frac{2}{9}, \frac{4}{9})$ $+ \frac{2}{9}\sqrt{30}e^6 \otimes e_8$	{124789, 1489, 2348, 3478}
931:47	$0, 0, 0, 0, 0, 0, \frac{5}{97}\sqrt{57}e^{12}, \frac{5}{97}\sqrt{17}e^{13} + \frac{30}{97}e^{45},$ $\frac{5}{97}\sqrt{19}e^{16} + \frac{20}{97}\sqrt{3}e^{27}$	$(\frac{5}{97}, \frac{10}{97}, -\frac{20}{97}, -\frac{20}{97}, \frac{5}{97}, \frac{20}{97}, \frac{15}{97}, -\frac{15}{97}, \frac{25}{97})$ $+ \frac{10}{97}\sqrt{11}e^1 \otimes e_3 + \frac{10}{97}\sqrt{26}e^2 \otimes e_8 + \frac{25}{97}e^5 \otimes e_4$	{146789, 156789, 3468, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{5}{97}\sqrt{57}e^{12}, \frac{5}{97}\sqrt{17}e^{13} + \frac{30}{97}e^{45},$ $\frac{5}{97}\sqrt{19}e^{16} + \frac{20}{97}\sqrt{3}e^{27}$	$(\frac{5}{97}, \frac{10}{97}, -\frac{20}{97}, -\frac{20}{97}, \frac{5}{97}, \frac{20}{97}, \frac{15}{97}, -\frac{15}{97}, \frac{25}{97})$ $+ \frac{10}{97}\sqrt{11}e^1 \otimes e_3 + \frac{10}{97}\sqrt{26}e^2 \otimes e_8 - \frac{25}{97}e^5 \otimes e_4$	{146789, 156789, 3468, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{515}\sqrt{7474}e^{12}, \frac{4}{515}\sqrt{202}e^{13} + \frac{1}{515}\sqrt{35754}e^{45},$ $\frac{4}{515}\sqrt{2222}e^{16} + \frac{4}{515}\sqrt{505}e^{27}$	$(-\frac{74}{515}, \frac{46}{515}, \frac{13}{103}, \frac{119}{515}, -\frac{128}{515}, \frac{92}{515}, -\frac{28}{515}, -\frac{9}{515}, \frac{18}{515})$ $+\frac{1}{515}\sqrt{44238}e^6 \otimes e_8 + \frac{1}{515}\sqrt{49894}e^4 \otimes e_9$	{124567, 1456, 2369, 3679}
931:47	$0, 0, 0, 0, 0, 0, \frac{2}{711}\sqrt{37901}e^{12}, \frac{2}{711}\sqrt{24009}e^{13} + \frac{4}{711}\sqrt{6946}e^{45},$ $\frac{2}{711}\sqrt{30351}e^{16} + \frac{8}{711}\sqrt{2869}e^{27}$	$(-\frac{98}{711}, \frac{52}{237}, -\frac{16}{237}, -\frac{73}{711}, -\frac{73}{711}, \frac{104}{237}, \frac{58}{711}, -\frac{146}{711}, \frac{214}{711})$ $+\frac{20}{711}\sqrt{906}e^2 \otimes e_8$	{1234569, 12369, 146789, 24567, 267, 3468}
931:47	$0, 0, 0, 0, 0, 0, \frac{2}{21}e^{12}, \frac{1}{21}\sqrt{66}e^{13} + \frac{2}{21}\sqrt{6}e^{45},$ $\frac{1}{21}\sqrt{66}e^{16} + \frac{2}{21}\sqrt{6}e^{27}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, 0, 0)$ $+\frac{1}{21}\sqrt{114}e^3 \otimes e_9 - \frac{1}{21}\sqrt{114}e^6 \otimes e_8$	{1234567, 12367, 13456, 136, 24569, 269, 45679, 679}
931:47	$0, 0, 0, 0, 0, 0, \frac{2}{21}e^{12}, \frac{1}{21}\sqrt{66}e^{13} + \frac{2}{21}\sqrt{6}e^{45},$ $\frac{1}{21}\sqrt{66}e^{16} + \frac{2}{21}\sqrt{6}e^{27}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, 0, 0, \frac{2}{7}, -\frac{1}{7}, 0, 0)$ $+\frac{1}{21}\sqrt{114}e^3 \otimes e_9 + \frac{1}{21}\sqrt{114}e^6 \otimes e_8$	{1234567, 12367, 13456, 136, 24569, 269, 45679, 679}
931:47	$0, 0, 0, 0, 0, 0, \frac{7}{129}\sqrt{89}e^{12}, \frac{1}{129}\sqrt{4717}e^{13} + \frac{2}{129}\sqrt{178}e^{45},$ $\frac{1}{129}\sqrt{2759}e^{16} + \frac{2}{129}\sqrt{445}e^{27}$	$(\frac{49}{129}, -\frac{20}{129}, -\frac{4}{43}, \frac{21}{43}, -\frac{26}{129}, -\frac{40}{129}, \frac{29}{129}, \frac{37}{129}, \frac{3}{43})$ $+\frac{2}{129}\sqrt{3115}e^1 \otimes e_6 + \frac{89}{129}e^4 \otimes e_5$	{2467, 2567, 46, 56}
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{1589}\sqrt{123046}e^{12}, \frac{11}{1589}\sqrt{238}e^{13} + \frac{12}{1589}\sqrt{1309}e^{45},$ $\frac{8}{1589}\sqrt{374}e^{16} + \frac{1}{1589}\sqrt{206074}e^{27}$	$(-\frac{166}{1589}, \frac{120}{1589}, \frac{99}{1589}, \frac{261}{1589}, -\frac{328}{1589}, \frac{240}{1589}, -\frac{46}{1589}, -\frac{67}{1589}, \frac{74}{1589})$ $+\frac{1}{1589}\sqrt{220286}e^4 \otimes e_9 + \frac{4}{1589}\sqrt{19261}e^2 \otimes e_8$	{12369, 156789, 24567, 3468}
931:47	$0, 0, 0, 0, 0, 0, \frac{14}{169}\sqrt{89}e^{12}, \frac{2}{169}\sqrt{2759}e^{13} + \frac{4}{169}\sqrt{445}e^{45},$ $\frac{2}{169}\sqrt{4717}e^{16} + \frac{4}{169}\sqrt{178}e^{27}$	$(\frac{98}{169}, -\frac{12}{169}, -\frac{80}{169}, \frac{9}{169}, \frac{9}{169}, -\frac{24}{169}, \frac{86}{169}, \frac{18}{169}, \frac{74}{169})$ $+\frac{4}{169}\sqrt{3115}e^1 \otimes e_3$	{12456, 126, 14567, 167, 2345679, 23679, 34569, 369}
931:47	$0, 0, 0, 0, 0, 0, \frac{10}{169}\sqrt{57}e^{12}, \frac{10}{169}\sqrt{17}e^{13} + \frac{60}{169}e^{45},$ $\frac{10}{169}\sqrt{19}e^{16} + \frac{40}{169}\sqrt{3}e^{27}$	$(\frac{10}{169}, \frac{20}{169}, -\frac{40}{169}, -\frac{15}{169}, -\frac{15}{169}, \frac{40}{169}, \frac{30}{169}, -\frac{30}{169}, \frac{50}{169})$ $+\frac{20}{169}\sqrt{11}e^1 \otimes e_3 + \frac{20}{169}\sqrt{26}e^2 \otimes e_8$	{146789, 3468}
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{1397}\sqrt{34646}e^{12}, \frac{1}{1397}\sqrt{527842}e^{13} + \frac{4}{1397}\sqrt{70311}e^{45},$ $\frac{4}{1397}\sqrt{56045}e^{16} + \frac{1}{1397}\sqrt{650122}e^{27}$	$(\frac{34}{1397}, -\frac{104}{1397}, \frac{491}{1397}, \frac{845}{1397}, -\frac{320}{1397}, \frac{208}{1397}, -\frac{70}{1397}, \frac{525}{1397}, -\frac{174}{1397})$ $+\frac{1}{1397}\sqrt{2374270}e^4 \otimes e_9$	{123589, 129, 135789, 179, 23457, 2478, 345, 48}
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{431}\sqrt{37901}e^{12}, \frac{1}{431}\sqrt{24009}e^{13} + \frac{2}{431}\sqrt{6946}e^{45},$ $\frac{1}{431}\sqrt{30351}e^{16} + \frac{4}{431}\sqrt{2869}e^{27}$	$(-\frac{49}{431}, \frac{78}{431}, -\frac{24}{431}, \frac{39}{431}, -\frac{112}{431}, \frac{156}{431}, \frac{29}{431}, -\frac{73}{431}, \frac{107}{431})$ $+\frac{10}{431}\sqrt{906}e^2 \otimes e_8 + \frac{151}{431}e^4 \otimes e_5$	{146789, 156789, 3468, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{9}e^{12}, \frac{4}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{2}e^{45},$ $\frac{2}{9}\sqrt{6}e^{16} + \frac{2}{9}\sqrt{10}e^{27}$	$(-\frac{2}{9}, 0, \frac{2}{9}, \frac{2}{9}, 0, -\frac{2}{9}, \frac{4}{9}, -\frac{2}{9})$ $+\frac{2}{9}\sqrt{30}e^3 \otimes e_9$	{123467, 1346, 2469, 4679}
931:47	$0, 0, 0, 0, 0, 0, \frac{14}{229}\sqrt{14}e^{12}, \frac{14}{229}e^{13} + \frac{42}{229}\sqrt{5}e^{45},$ $\frac{14}{229}\sqrt{78}e^{16} + \frac{42}{229}\sqrt{2}e^{27}$	$(\frac{28}{229}, \frac{28}{229}, -\frac{70}{229}, -\frac{21}{229}, -\frac{21}{229}, \frac{56}{229}, \frac{56}{229}, -\frac{42}{229}, \frac{84}{229})$ $+\frac{14}{229}\sqrt{110}e^6 \otimes e_8 + \frac{14}{229}\sqrt{95}e^1 \otimes e_3$	{12456, 126, 14567, 167, 2345679, 23679, 34569, 369}
931:47	$0, 0, 0, 0, 0, 0, \frac{14}{229}\sqrt{14}e^{12}, \frac{14}{229}e^{13} + \frac{42}{229}\sqrt{5}e^{45},$ $\frac{14}{229}\sqrt{78}e^{16} + \frac{42}{229}\sqrt{2}e^{27}$	$(\frac{28}{229}, \frac{28}{229}, -\frac{70}{229}, -\frac{21}{229}, -\frac{21}{229}, \frac{56}{229}, \frac{56}{229}, -\frac{42}{229}, \frac{84}{229})$ $-\frac{14}{229}\sqrt{110}e^6 \otimes e_8 + \frac{14}{229}\sqrt{95}e^1 \otimes e_3$	{12456, 126, 14567, 167, 2345679, 23679, 34569, 369}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13} + \frac{2}{13}\sqrt{10}e^{45},$ $\frac{4}{13}\sqrt{3}e^{16} + \frac{2}{13}\sqrt{2}e^{27}$	$(-\frac{2}{13}, \frac{3}{13}, 0, \frac{3}{13}, -\frac{5}{13}, \frac{6}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{4}{13})$ $-\frac{2}{13}\sqrt{30}e^6 \otimes e_8 + \frac{8}{13}e^4 \otimes e_5$	{124789, 125789, 1489, 1589, 2348, 2358, 3478, 3578}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{2}{13}\sqrt{6}e^{13} + \frac{2}{13}\sqrt{10}e^{45},$ $\frac{4}{13}\sqrt{3}e^{16} + \frac{2}{13}\sqrt{2}e^{27}$	$(-\frac{2}{13}, \frac{3}{13}, 0, \frac{3}{13}, -\frac{5}{13}, \frac{6}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{4}{13})$ $+\frac{2}{13}\sqrt{30}e^6 \otimes e_8 + \frac{8}{13}e^4 \otimes e_5$	{124789, 125789, 1489, 1589, 2348, 2358, 3478, 3578}
931:47	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{221}e^{12}, \frac{1}{53}\sqrt{374}e^{13} + \frac{1}{53}\sqrt{493}e^{45},$ $\frac{1}{53}\sqrt{595}e^{16} + \frac{1}{53}\sqrt{170}e^{27}$	$(\frac{13}{53}, -\frac{6}{53}, -\frac{4}{53}, \frac{18}{53}, -\frac{9}{53}, -\frac{12}{53}, \frac{7}{53}, \frac{9}{53}, \frac{1}{53})$ $+\frac{1}{53}\sqrt{697}e^1 \otimes e_3 + \frac{3}{53}\sqrt{102}e^4 \otimes e_9$	{129, 179, 23457, 345}
931:47	$0, 0, 0, 0, 0, 0, \frac{8}{207}\sqrt{35}e^{12}, \frac{8}{207}\sqrt{57}e^{13} + \frac{4}{207}\sqrt{106}e^{45},$ $\frac{4}{207}\sqrt{102}e^{16} + \frac{4}{207}\sqrt{310}e^{27}$	$(-\frac{44}{207}, \frac{8}{69}, \frac{4}{23}, -\frac{4}{207}, -\frac{4}{207}, \frac{16}{69}, -\frac{20}{207}, -\frac{8}{207}, \frac{4}{207})$ $+\frac{4}{207}\sqrt{282}e^3 \otimes e_9 + \frac{8}{207}\sqrt{114}e^2 \otimes e_8$	{146789, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:47	$0, 0, 0, 0, 0, 0, \frac{26}{4153}\sqrt{1389}e^{12}, \frac{26}{4153}\sqrt{1121}e^{13} + \frac{52}{4153}\sqrt{134}e^{45},$ $\frac{26}{4153}\sqrt{1135}e^{16} + \frac{52}{4153}\sqrt{322}e^{27}$	$(\frac{442}{4153}, \frac{52}{4153}, -\frac{728}{4153}, -\frac{143}{4153}, -\frac{143}{4153}, \frac{104}{4153}, \frac{494}{4153}, -\frac{286}{4153}, \frac{546}{4153})$ $+ \frac{104}{4153}\sqrt{146}e^2 \otimes e_8 + \frac{104}{4153}\sqrt{89}e^1 \otimes e_6$	{24567, 267, 3468}
931:47	$0, 0, 0, 0, 0, 0, \frac{5}{349}\sqrt{149}e^{12}, \frac{5}{349}\sqrt{6}e^{13} + \frac{5}{349}\sqrt{197}e^{45},$ $\frac{15}{349}\sqrt{3}e^{16} + \frac{5}{349}\sqrt{186}e^{27}$	$(\frac{5}{349}, \frac{10}{349}, -\frac{20}{349}, -\frac{65}{349}, \frac{50}{349}, \frac{20}{349}, \frac{15}{349}, -\frac{15}{349}, \frac{25}{349})$ $+ \frac{5}{349}\sqrt{113}e^1 \otimes e_3 + \frac{5}{349}\sqrt{230}e^5 \otimes e_9 + \frac{60}{349}\sqrt{2}e^2 \otimes e_8$	{129, 23457}
931:47	$0, 0, 0, 0, 0, 0, \frac{13}{2161}\sqrt{1389}e^{12}, \frac{13}{2161}\sqrt{1121}e^{13} + \frac{26}{2161}\sqrt{134}e^{45},$ $\frac{13}{2161}\sqrt{1135}e^{16} + \frac{26}{2161}\sqrt{322}e^{27}$	$(\frac{221}{2161}, \frac{26}{2161}, -\frac{364}{2161}, -\frac{156}{2161}, \frac{13}{2161}, \frac{52}{2161}, \frac{247}{2161}, -\frac{143}{2161}, \frac{273}{2161})$ $+ \frac{169}{2161}e^5 \otimes e_4 + \frac{52}{2161}\sqrt{146}e^2 \otimes e_8 + \frac{52}{2161}\sqrt{89}e^1 \otimes e_6$	{3468, 3568}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{4}{13}\sqrt{3}e^{13} + \frac{2}{13}\sqrt{2}e^{45},$ $\frac{2}{13}\sqrt{6}e^{16} + \frac{2}{13}\sqrt{10}e^{27}$	$(-\frac{2}{13}, 0, \frac{6}{13}, \frac{6}{13}, -\frac{2}{13}, 0, -\frac{2}{13}, \frac{4}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 + \frac{8}{13}e^4 \otimes e_5$	{123467, 123567, 1346, 1356, 2469, 2569, 4679, 5679}
931:47	$0, 0, 0, 0, 0, 0, \frac{4}{13}e^{12}, \frac{4}{13}\sqrt{3}e^{13} + \frac{2}{13}\sqrt{2}e^{45},$ $\frac{2}{13}\sqrt{6}e^{16} + \frac{2}{13}\sqrt{10}e^{27}$	$(-\frac{2}{13}, 0, \frac{6}{13}, \frac{6}{13}, -\frac{2}{13}, 0, -\frac{2}{13}, \frac{4}{13}, -\frac{2}{13})$ $+ \frac{2}{13}\sqrt{30}e^3 \otimes e_9 - \frac{8}{13}e^4 \otimes e_5$	{123467, 123567, 1346, 1356, 2469, 2569, 4679, 5679}
931:48	$0, 0, 0, 0, 0, 0, \frac{106}{185}e^{12}, \frac{2}{185}\sqrt{4558}e^{13} + \frac{2}{185}\sqrt{1749}e^{45},$ $\frac{106}{185}e^{17} + \frac{2}{185}\sqrt{5141}e^{26}$	$(\frac{44}{185}, -\frac{4}{37}, -\frac{62}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{88}{185}, \frac{24}{185}, -\frac{18}{185}, \frac{68}{185})$ $+ \frac{2}{185}\sqrt{8533}e^6 \otimes e_8$	{124789, 148, 23489, 3478}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{201}\sqrt{1770}e^{12}, \frac{2}{201}\sqrt{3422}e^{13} + \frac{4}{201}\sqrt{177}e^{45},$ $\frac{2}{201}\sqrt{590}e^{17} + \frac{2}{67}\sqrt{354}e^{26}$	$(-\frac{16}{201}, -\frac{2}{201}, \frac{28}{67}, \frac{31}{67}, -\frac{25}{201}, -\frac{32}{201}, -\frac{6}{67}, \frac{68}{201}, -\frac{34}{201})$ $+ \frac{118}{201}e^4 \otimes e_5 + \frac{4}{201}\sqrt{1770}e^3 \otimes e_9$	{123467, 123567, 4679, 5679}
931:48	$0, 0, 0, 0, 0, 0, \frac{12}{185}\sqrt{159}e^{12}, \frac{2}{185}\sqrt{159}e^{13} + \frac{2}{185}\sqrt{1749}e^{45},$ $\frac{12}{185}\sqrt{159}e^{17} + \frac{16}{185}\sqrt{53}e^{26}$	$(\frac{44}{185}, -\frac{4}{37}, -\frac{62}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{88}{185}, \frac{24}{185}, -\frac{18}{185}, \frac{68}{185})$ $+ \frac{2}{185}\sqrt{8533}e^1 \otimes e_3$	{124569, 1269, 14567, 167, 2345679, 23679, 3456, 36}
931:48	$0, 0, 0, 0, 0, 0, \frac{18}{875}\sqrt{38}e^{12}, \frac{18}{875}\sqrt{274}e^{13} + \frac{36}{875}\sqrt{15}e^{45},$ $\frac{18}{175}\sqrt{2}e^{17} + \frac{18}{125}\sqrt{6}e^{26}$	$(-\frac{108}{875}, \frac{198}{875}, \frac{144}{875}, -\frac{9}{125}, \frac{99}{875}, -\frac{216}{875}, \frac{18}{175}, \frac{36}{875}, -\frac{18}{875})$ $+ \frac{162}{875}e^5 \otimes e_4 + \frac{36}{875}\sqrt{85}e^3 \otimes e_9 + \frac{36}{875}\sqrt{94}e^2 \otimes e_8$	{3478, 3578}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{1337}\sqrt{51513}e^{12}, \frac{1}{1337}\sqrt{202038}e^{13} + \frac{5}{1337}\sqrt{6690}e^{45},$ $\frac{1}{1337}\sqrt{287670}e^{17} + \frac{1}{1337}\sqrt{64670}e^{26}$	$(\frac{134}{1337}, -\frac{194}{1337}, -\frac{89}{1337}, \frac{297}{1337}, -\frac{36}{191}, \frac{268}{1337}, -\frac{60}{1337}, \frac{45}{1337}, \frac{74}{1337})$ $+ \frac{1}{1337}\sqrt{296590}e^1 \otimes e_3 + \frac{3}{1337}\sqrt{27206}e^4 \otimes e_9$	{1269, 14567, 23679, 3456}
931:48	$0, 0, 0, 0, 0, 0, \frac{12}{211}\sqrt{7}e^{12}, \frac{40}{211}e^{13} + \frac{2}{211}\sqrt{30}e^{45},$ $\frac{2}{211}\sqrt{134}e^{17} + \frac{2}{211}\sqrt{410}e^{26}$	$(\frac{10}{211}, -\frac{26}{211}, \frac{2}{211}, \frac{6}{211}, \frac{6}{211}, \frac{20}{211}, -\frac{16}{211}, \frac{12}{211}, -\frac{6}{211})$ $+ \frac{2}{211}\sqrt{354}e^3 \otimes e_9 + \frac{4}{211}\sqrt{109}e^6 \otimes e_8$	{124789, 3478}
931:48	$0, 0, 0, 0, 0, 0, \frac{26}{707}\sqrt{14}e^{12}, \frac{26}{707}\sqrt{102}e^{13} + \frac{52}{707}\sqrt{3}e^{45},$ $\frac{18}{707}\sqrt{6}e^{17} + \frac{26}{101}\sqrt{2}e^{26}$	$(-\frac{104}{707}, \frac{130}{707}, \frac{260}{707}, -\frac{13}{101}, \frac{247}{707}, -\frac{208}{707}, \frac{26}{707}, \frac{156}{707}, -\frac{78}{707})$ $+ \frac{104}{707}\sqrt{11}e^2 \otimes e_6 + \frac{338}{707}e^5 \otimes e_4 + \frac{52}{707}\sqrt{74}e^3 \otimes e_9$	{2479, 2579}
931:48	$0, 0, 0, 0, 0, 0, \frac{612}{1669}\sqrt{2}e^{12}, \frac{34}{1669}\sqrt{195}e^{13} + \frac{34}{1669}\sqrt{345}e^{45},$ $\frac{408}{1669}\sqrt{3}e^{17} + \frac{136}{1669}\sqrt{5}e^{26}$	$(\frac{136}{1669}, \frac{272}{1669}, -\frac{442}{1669}, -\frac{153}{1669}, -\frac{153}{1669}, \frac{272}{1669}, \frac{408}{1669}, -\frac{306}{1669}, \frac{544}{1669})$ $+ \frac{34}{1669}\sqrt{829}e^1 \otimes e_3 + \frac{612}{1669}\sqrt{2}e^2 \otimes e_8$	{124569, 1269, 2345679, 23679}
931:48	$0, 0, 0, 0, 0, 0, \frac{18}{3101}\sqrt{1001}e^{12}, \frac{6}{3101}\sqrt{2145}e^{13} + \frac{132}{3101}\sqrt{69}e^{45},$ $\frac{12}{3101}\sqrt{2145}e^{17} + \frac{12}{3101}\sqrt{7062}e^{26}$	$(-\frac{258}{3101}, \frac{611}{3101}, \frac{275}{3101}, \frac{689}{3101}, -\frac{96}{443}, -\frac{516}{3101}, \frac{353}{3101}, \frac{17}{3101}, \frac{95}{3101})$ $+ \frac{60}{3101}\sqrt{462}e^2 \otimes e_8 + \frac{6}{3101}\sqrt{44913}e^4 \otimes e_9$	{1239, 1478, 279, 348}
931:48	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{282}e^{12}, \frac{8}{311}\sqrt{303}e^{13} + \frac{20}{311}\sqrt{66}e^{45},$ $\frac{12}{311}\sqrt{170}e^{17} + \frac{24}{311}\sqrt{10}e^{26}$	$(-\frac{43}{311}, \frac{58}{311}, \frac{314}{933}, \frac{116}{311}, -\frac{163}{933}, -\frac{86}{311}, \frac{15}{311}, \frac{185}{933}, -\frac{28}{311})$ $+ \frac{4}{311}\sqrt{3066}e^4 \otimes e_9 + \frac{8}{311}\sqrt{465}e^2 \otimes e_6$	{123589, 129, 2379, 25789}
931:48	$0, 0, 0, 0, 0, 0, \frac{1}{1337}\sqrt{90538}e^{12}, \frac{2}{1337}\sqrt{23638}e^{13} + \frac{5}{1337}\sqrt{6690}e^{45},$ $\frac{4}{1337}\sqrt{2230}e^{17} + \frac{4}{1337}\sqrt{14495}e^{26}$	$(\frac{134}{1337}, -\frac{194}{1337}, -\frac{89}{1337}, \frac{297}{1337}, -\frac{36}{191}, \frac{268}{1337}, -\frac{60}{1337}, \frac{45}{1337}, \frac{74}{1337})$ $+ \frac{1}{1337}\sqrt{296590}e^6 \otimes e_8 + \frac{3}{1337}\sqrt{27206}e^4 \otimes e_9$	{125789, 148, 23589, 3478}
931:48	$0, 0, 0, 0, 0, 0, \frac{34}{3601}\sqrt{1990}e^{12}, \frac{102}{3601}\sqrt{141}e^{13} + \frac{34}{277}\sqrt{3}e^{45},$ $\frac{34}{3601}\sqrt{1562}e^{17} + \frac{340}{3601}\sqrt{11}e^{26}$	$(\frac{34}{3601}, \frac{646}{3601}, -\frac{544}{3601}, -\frac{255}{3601}, -\frac{255}{3601}, \frac{68}{3601}, \frac{680}{3601}, -\frac{510}{3601}, \frac{714}{3601})$ $+ \frac{34}{3601}\sqrt{2065}e^1 \otimes e_3 + \frac{68}{3601}\sqrt{321}e^2 \otimes e_6$	{14567, 167, 3456, 36}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:48	$0, 0, 0, 0, 0, 0, \frac{12}{215}\sqrt{7}e^{12}, \frac{8}{43}e^{13} + \frac{2}{215}\sqrt{30}e^{45},$ $\frac{2}{215}\sqrt{134}e^{17} + \frac{2}{215}\sqrt{410}e^{26}$	$(\frac{2}{43}, -\frac{26}{215}, \frac{2}{215}, \frac{2}{43}, \frac{2}{215}, \frac{4}{43}, -\frac{16}{215}, \frac{12}{215}, -\frac{6}{215})$ $+ \frac{2}{215}\sqrt{354}e^3 \otimes e_9 + \frac{4}{215}\sqrt{109}e^6 \otimes e_8 + \frac{8}{215}e^4 \otimes e_5$	{124789, 125789, 3478, 3578}
931:48	$0, 0, 0, 0, 0, 0, \frac{12}{215}\sqrt{7}e^{12}, \frac{8}{43}e^{13} + \frac{2}{215}\sqrt{30}e^{45},$ $\frac{2}{215}\sqrt{134}e^{17} + \frac{2}{215}\sqrt{410}e^{26}$	$(\frac{2}{43}, -\frac{26}{215}, \frac{2}{215}, \frac{2}{43}, \frac{2}{215}, \frac{4}{43}, -\frac{16}{215}, \frac{12}{215}, -\frac{6}{215})$ $+ \frac{2}{215}\sqrt{354}e^3 \otimes e_9 - \frac{4}{215}\sqrt{109}e^6 \otimes e_8 + \frac{8}{215}e^4 \otimes e_5$	{124789, 125789, 3478, 3578}
931:48	$0, 0, 0, 0, 0, 0, \frac{13}{269}\sqrt{14}e^{12}, \frac{13}{269}\sqrt{102}e^{13} + \frac{26}{269}\sqrt{3}e^{45},$ $\frac{39}{269}\sqrt{6}e^{17} + \frac{91}{269}\sqrt{2}e^{26}$	$(-\frac{52}{269}, \frac{65}{269}, \frac{130}{269}, \frac{39}{269}, \frac{39}{269}, -\frac{104}{269}, \frac{13}{269}, \frac{78}{269}, -\frac{39}{269})$ $+ \frac{26}{269}\sqrt{74}e^3 \otimes e_9 + \frac{52}{269}\sqrt{11}e^2 \otimes e_6$	{124589, 1289, 2479}
931:48	$0, 0, 0, 0, 0, 0, \frac{9}{397}\sqrt{38}e^{12}, \frac{9}{397}\sqrt{274}e^{13} + \frac{18}{397}\sqrt{15}e^{45},$ $\frac{45}{397}\sqrt{2}e^{17} + \frac{63}{397}\sqrt{6}e^{26}$	$(-\frac{54}{397}, \frac{99}{397}, \frac{72}{397}, \frac{9}{397}, \frac{9}{397}, -\frac{108}{397}, \frac{45}{397}, \frac{18}{397}, -\frac{9}{397})$ $+ \frac{18}{397}\sqrt{85}e^3 \otimes e_9 + \frac{36}{397}\sqrt{94}e^2 \otimes e_8$	{2459, 29, 3478}
931:48	$0, 0, 0, 0, 0, 0, \frac{1}{1139}\sqrt{1380670}e^{12}, \frac{1}{1139}\sqrt{576874}e^{13} + \frac{2}{1139}\sqrt{94323}e^{45},$ $\frac{1}{1139}\sqrt{527662}e^{17} + \frac{1}{1139}\sqrt{451110}e^{26}$	$(-\frac{284}{1139}, \frac{47}{67}, \frac{414}{1139}, \frac{65}{1139}, \frac{65}{1139}, -\frac{568}{1139}, \frac{515}{1139}, \frac{130}{1139}, \frac{231}{1139})$ $+ \frac{12}{1139}\sqrt{17771}e^2 \otimes e_6$	{134678, 14567, 167, 3456, 36, 468}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{3225}\sqrt{276218}e^{12}, \frac{2}{3225}\sqrt{494546}e^{13} + \frac{4}{645}\sqrt{4962}e^{45},$ $\frac{2}{3225}\sqrt{272910}e^{17} + \frac{2}{3225}\sqrt{659946}e^{26}$	$(-\frac{196}{3225}, \frac{422}{1075}, -\frac{64}{1075}, \frac{211}{1075}, -\frac{1021}{3225}, -\frac{392}{3225}, \frac{214}{645}, -\frac{388}{3225}, \frac{874}{3225})$ $+ \frac{1654}{3225}e^4 \otimes e_5 + \frac{4}{3225}\sqrt{411846}e^2 \otimes e_8$	{146789, 156789, 34689, 35689}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{3645}\sqrt{1380670}e^{12}, \frac{2}{3645}\sqrt{576874}e^{13} + \frac{4}{3645}\sqrt{94323}e^{45},$ $\frac{2}{3645}\sqrt{527662}e^{17} + \frac{2}{3645}\sqrt{451110}e^{26}$	$(-\frac{568}{3645}, \frac{1598}{3645}, \frac{92}{405}, \frac{499}{1215}, -\frac{1237}{3645}, -\frac{1136}{3645}, \frac{206}{729}, \frac{52}{729}, \frac{154}{1215})$ $+ \frac{2734}{3645}e^4 \otimes e_5 + \frac{8}{1215}\sqrt{17771}e^2 \otimes e_6$	{134678, 135678, 468, 568}
931:48	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1770}e^{12}, \frac{1}{71}\sqrt{3422}e^{13} + \frac{2}{71}\sqrt{177}e^{45},$ $\frac{1}{71}\sqrt{590}e^{17} + \frac{3}{71}\sqrt{354}e^{26}$	$(-\frac{8}{71}, -\frac{1}{71}, \frac{42}{71}, \frac{17}{71}, \frac{17}{71}, -\frac{16}{71}, -\frac{9}{71}, \frac{34}{71}, -\frac{17}{71})$ $+ \frac{2}{71}\sqrt{1770}e^3 \otimes e_9$	{123467, 145689, 1689, 234568, 2368, 4679}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{189}\sqrt{1510}e^{12}, \frac{2}{189}\sqrt{302}e^{13} + \frac{4}{189}\sqrt{453}e^{45},$ $\frac{2}{189}\sqrt{1510}e^{17} + \frac{2}{189}\sqrt{906}e^{26}$	$(\frac{16}{189}, \frac{22}{189}, \frac{4}{21}, \frac{59}{63}, -\frac{125}{189}, \frac{32}{189}, \frac{38}{189}, \frac{52}{189}, \frac{2}{7})$ $+ \frac{302}{189}e^4 \otimes e_5$	{12489, 12589, 1478, 1578, 234789, 235789, 348, 358}
931:48	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{301}e^{12}, \frac{10}{119}\sqrt{43}e^{13} + \frac{8}{119}\sqrt{129}e^{45},$ $\frac{4}{119}\sqrt{430}e^{17} + \frac{4}{119}\sqrt{258}e^{26}$	$(-\frac{2}{119}, -\frac{11}{119}, \frac{45}{119}, \frac{71}{119}, -\frac{4}{17}, -\frac{4}{119}, -\frac{13}{119}, \frac{43}{119}, -\frac{15}{119})$ $+ \frac{6}{119}\sqrt{473}e^4 \otimes e_9$	{123589, 129, 13478, 1457, 2379, 25789, 345, 48}
931:48	$0, 0, 0, 0, 0, 0, \frac{17}{5941}\sqrt{4902}e^{12}, \frac{34}{5941}\sqrt{977}e^{13} + \frac{170}{5941}\sqrt{26}e^{45},$ $\frac{34}{5941}\sqrt{1255}e^{17} + \frac{17}{5941}\sqrt{2010}e^{26}$	$(\frac{17}{5941}, \frac{323}{5941}, -\frac{272}{5941}, -\frac{901}{5941}, \frac{646}{5941}, \frac{34}{5941}, \frac{340}{5941}, -\frac{255}{5941}, \frac{357}{5941})$ $+ \frac{17}{5941}\sqrt{3094}e^5 \otimes e_9 + \frac{34}{5941}\sqrt{685}e^2 \otimes e_6 + \frac{85}{5941}\sqrt{210}e^1 \otimes e_3$	{14567, 3456}
931:48	$0, 0, 0, 0, 0, 0, \frac{53}{119}e^{12}, \frac{1}{119}\sqrt{4558}e^{13} + \frac{1}{119}\sqrt{1749}e^{45},$ $\frac{53}{119}e^{17} + \frac{1}{119}\sqrt{5141}e^{26}$	$(\frac{22}{119}, -\frac{10}{119}, -\frac{31}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{44}{119}, \frac{12}{119}, -\frac{9}{119}, \frac{2}{7})$ $+ \frac{1}{119}\sqrt{8533}e^6 \otimes e_8 + \frac{53}{119}e^4 \otimes e_5$	{124789, 125789, 148, 158, 23489, 23589, 3478, 3578}
931:48	$0, 0, 0, 0, 0, 0, \frac{53}{119}e^{12}, \frac{1}{119}\sqrt{4558}e^{13} + \frac{1}{119}\sqrt{1749}e^{45},$ $\frac{53}{119}e^{17} + \frac{1}{119}\sqrt{5141}e^{26}$	$(\frac{22}{119}, -\frac{10}{119}, -\frac{31}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{44}{119}, \frac{12}{119}, -\frac{9}{119}, \frac{2}{7})$ $- \frac{1}{119}\sqrt{8533}e^6 \otimes e_8 + \frac{53}{119}e^4 \otimes e_5$	{124789, 125789, 148, 158, 23489, 23589, 3478, 3578}
931:48	$0, 0, 0, 0, 0, 0, \frac{34}{3647}\sqrt{462}e^{12}, \frac{51}{3647}\sqrt{130}e^{13} + \frac{51}{3647}\sqrt{230}e^{45},$ $\frac{17}{3647}\sqrt{2082}e^{17} + \frac{17}{3647}\sqrt{370}e^{26}$	$(\frac{68}{3647}, \frac{136}{3647}, -\frac{221}{3647}, -\frac{102}{521}, \frac{561}{3647}, \frac{136}{3647}, \frac{204}{3647}, -\frac{153}{3647}, \frac{272}{3647})$ $+ \frac{17}{521}\sqrt{46}e^1 \otimes e_3 + \frac{34}{3647}\sqrt{462}e^2 \otimes e_8 + \frac{85}{3647}\sqrt{102}e^5 \otimes e_9$	{129, 2379}
931:48	$0, 0, 0, 0, 0, 0, \frac{1}{1199}\sqrt{276218}e^{12}, \frac{1}{1199}\sqrt{494546}e^{13} + \frac{10}{1199}\sqrt{4962}e^{45},$ $\frac{1}{1199}\sqrt{272910}e^{17} + \frac{1}{1199}\sqrt{659946}e^{26}$	$(-\frac{98}{1199}, \frac{633}{1199}, -\frac{96}{1199}, -\frac{97}{1199}, -\frac{97}{1199}, -\frac{196}{1199}, \frac{535}{1199}, -\frac{194}{1199}, \frac{437}{1199})$ $+ \frac{2}{1199}\sqrt{411846}e^2 \otimes e_8$	{123456, 1236, 146789, 24567, 267, 34689}
931:49	$0, 0, 0, 0, 0, 0, \frac{4}{133}\sqrt{42}e^{12}, -\frac{5}{133}\sqrt{21}e^{13} + \frac{1}{133}\sqrt{805}e^{45},$ $\frac{1}{133}\sqrt{791}e^{14} + \frac{2}{19}\sqrt{5}e^{27} + \frac{1}{133}\sqrt{399}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{133}\sqrt{385}e^2 \otimes e_8 + \frac{4}{133}\sqrt{7}e^3 \otimes e_6$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}
931:49	$0, 0, 0, 0, 0, 0, \frac{4}{133}\sqrt{42}e^{12}, \frac{5}{133}\sqrt{21}e^{13} + \frac{1}{133}\sqrt{805}e^{45},$ $\frac{1}{133}\sqrt{791}e^{14} + \frac{2}{19}\sqrt{5}e^{27} + \frac{1}{133}\sqrt{399}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{133}\sqrt{385}e^2 \otimes e_8 + \frac{4}{133}\sqrt{7}e^3 \otimes e_6$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:49	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{134}e^{12}, -\frac{1}{63}\sqrt{2613}e^{13} + \frac{1}{63}\sqrt{1005}e^{45},$ $\frac{1}{63}\sqrt{871}e^{14} + \frac{1}{63}\sqrt{134}e^{27} + \frac{1}{63}\sqrt{2613}e^{35}$	$(-\frac{2}{63}, \frac{4}{21}, \frac{8}{21}, \frac{8}{21}, -\frac{2}{63}, -\frac{43}{63}, \frac{10}{63}, \frac{22}{63}, \frac{22}{63})$ $+ \frac{1}{63}\sqrt{7102}e^3 \otimes e_6$	{123479, 12456789, 1349, 145689, 23458, 246, 34578, 467, 123479, 12456789, 1349, 145689, 23458, 246, 34578, 467}
931:49	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{134}e^{12}, \frac{1}{63}\sqrt{2613}e^{13} + \frac{1}{63}\sqrt{1005}e^{45},$ $\frac{1}{63}\sqrt{871}e^{14} + \frac{1}{63}\sqrt{134}e^{27} + \frac{1}{63}\sqrt{2613}e^{35}$	$(-\frac{2}{63}, \frac{4}{21}, \frac{8}{21}, \frac{8}{21}, -\frac{2}{63}, -\frac{43}{63}, \frac{10}{63}, \frac{22}{63}, \frac{22}{63})$ $+ \frac{1}{63}\sqrt{7102}e^3 \otimes e_6$	{123479, 12456789, 1349, 145689, 23458, 246, 34578, 467, 123479, 12456789, 1349, 145689, 23458, 246, 34578, 467}
931:49	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51}e^{12}, -\frac{9}{146}\sqrt{2}e^{13} + \frac{1}{146}\sqrt{218}e^{45},$ $\frac{1}{146}\sqrt{190}e^{14} + \frac{2}{73}\sqrt{17}e^{27} + \frac{1}{146}\sqrt{134}e^{35}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{4}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{23}e^1 \otimes e_6 + \frac{6}{73}\sqrt{3}e^2 \otimes e_8$	{123459, 14789, 24567, 3468, 123459, 14789, 24567, 3468}
931:49	$0, 0, 0, 0, 0, \frac{1}{146}\sqrt{51}e^{12}, \frac{9}{146}\sqrt{2}e^{13} + \frac{1}{146}\sqrt{218}e^{45},$ $\frac{1}{146}\sqrt{190}e^{14} + \frac{2}{73}\sqrt{17}e^{27} + \frac{1}{146}\sqrt{134}e^{35}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{4}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{23}e^1 \otimes e_6 + \frac{6}{73}\sqrt{3}e^2 \otimes e_8$	{123459, 14789, 24567, 3468, 123459, 14789, 24567, 3468}
931:49	$0, 0, 0, 0, 0, \frac{16}{329}\sqrt{19}e^{12}, -\frac{1}{329}\sqrt{3477}e^{13} + \frac{1}{329}\sqrt{5909}e^{45},$ $\frac{1}{329}\sqrt{5567}e^{14} + \frac{2}{329}\sqrt{1767}e^{27} + \frac{1}{329}\sqrt{3135}e^{35}$	$(-\frac{34}{329}, \frac{15}{329}, \frac{30}{329}, \frac{30}{329}, -\frac{34}{329}, \frac{39}{329}, -\frac{19}{329}, -\frac{4}{329}, -\frac{4}{329})$ $+ \frac{2}{329}\sqrt{2755}e^2 \otimes e_8$	{1234569, 123459, 146789, 14789, 24567, 2457, 3468, 348, 1234569, 123459, 146789, 14789, 24567, 2457, 3468, 348}
931:49	$0, 0, 0, 0, 0, \frac{16}{329}\sqrt{19}e^{12}, \frac{1}{329}\sqrt{3477}e^{13} + \frac{1}{329}\sqrt{5909}e^{45},$ $\frac{1}{329}\sqrt{5567}e^{14} + \frac{2}{329}\sqrt{1767}e^{27} + \frac{1}{329}\sqrt{3135}e^{35}$	$(-\frac{34}{329}, \frac{15}{329}, \frac{30}{329}, \frac{30}{329}, -\frac{34}{329}, \frac{39}{329}, -\frac{19}{329}, -\frac{4}{329}, -\frac{4}{329})$ $+ \frac{2}{329}\sqrt{2755}e^2 \otimes e_8$	{1234569, 123459, 146789, 14789, 24567, 2457, 3468, 348, 1234569, 123459, 146789, 14789, 24567, 2457, 3468, 348}
931:49	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51}e^{12}, -\frac{1}{73}\sqrt{29}e^{13} + \frac{1}{73}\sqrt{66}e^{45},$ $\frac{1}{73}\sqrt{59}e^{14} + \frac{2}{73}\sqrt{17}e^{27} + \frac{1}{73}\sqrt{22}e^{35}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{4}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{23}e^5 \otimes e_6 + \frac{6}{73}\sqrt{3}e^2 \otimes e_8$	{123459, 146789, 2457, 3468, 123459, 146789, 2457, 3468}
931:49	$0, 0, 0, 0, 0, \frac{1}{73}\sqrt{51}e^{12}, \frac{1}{73}\sqrt{29}e^{13} + \frac{1}{73}\sqrt{66}e^{45},$ $\frac{1}{73}\sqrt{59}e^{14} + \frac{2}{73}\sqrt{17}e^{27} + \frac{1}{73}\sqrt{22}e^{35}$	$(-\frac{3}{73}, \frac{2}{73}, \frac{4}{73}, \frac{4}{73}, -\frac{3}{73}, -\frac{4}{73}, -\frac{1}{73}, \frac{1}{73}, \frac{1}{73})$ $+ \frac{1}{73}\sqrt{23}e^5 \otimes e_6 + \frac{6}{73}\sqrt{3}e^2 \otimes e_8$	{123459, 146789, 2457, 3468, 123459, 146789, 2457, 3468}
931:49	$0, 0, 0, 0, 0, \frac{4}{133}\sqrt{42}e^{12}, -\frac{1}{133}\sqrt{469}e^{13} + \frac{1}{133}\sqrt{861}e^{45},$ $\frac{1}{19}\sqrt{15}e^{14} + \frac{2}{19}\sqrt{5}e^{27} + \frac{1}{133}\sqrt{455}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{133}\sqrt{385}e^2 \otimes e_8 + \frac{4}{133}\sqrt{7}e^4 \otimes e_6$	{123459, 14789, 2457, 348, 123459, 14789, 2457, 348}
931:49	$0, 0, 0, 0, 0, \frac{4}{133}\sqrt{42}e^{12}, \frac{1}{133}\sqrt{469}e^{13} + \frac{1}{133}\sqrt{861}e^{45},$ $\frac{1}{19}\sqrt{15}e^{14} + \frac{2}{19}\sqrt{5}e^{27} + \frac{1}{133}\sqrt{455}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{133}\sqrt{385}e^2 \otimes e_8 + \frac{4}{133}\sqrt{7}e^4 \otimes e_6$	{123459, 14789, 2457, 348, 123459, 14789, 2457, 348}
931:49	$0, 0, 0, 0, 0, \frac{4}{19}e^{12}, -\frac{1}{57}\sqrt{105}e^{13} + \frac{1}{57}\sqrt{177}e^{45},$ $\frac{1}{19}\sqrt{19}e^{14} + \frac{2}{57}\sqrt{51}e^{27} + \frac{1}{19}\sqrt{11}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{57}\sqrt{6}e^6 \otimes e_9 + \frac{6}{19}e^2 \otimes e_8$	{1234569, 146789, 2457, 348, 1234569, 146789, 2457, 348}
931:49	$0, 0, 0, 0, 0, \frac{4}{19}e^{12}, \frac{1}{57}\sqrt{105}e^{13} + \frac{1}{57}\sqrt{177}e^{45},$ $\frac{1}{19}\sqrt{19}e^{14} + \frac{2}{57}\sqrt{51}e^{27} + \frac{1}{19}\sqrt{11}e^{35}$	$(-\frac{2}{19}, \frac{1}{19}, \frac{2}{19}, \frac{2}{19}, -\frac{2}{19}, \frac{1}{19}, -\frac{1}{19}, 0, 0)$ $+ \frac{2}{57}\sqrt{6}e^6 \otimes e_9 + \frac{6}{19}e^2 \otimes e_8$	{1234569, 146789, 2457, 348, 1234569, 146789, 2457, 348}
931:49	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{134}e^{12}, -\frac{1}{63}\sqrt{938}e^{13} + \frac{1}{63}\sqrt{2546}e^{45},$ $\frac{2}{63}\sqrt{670}e^{14} + \frac{1}{63}\sqrt{134}e^{27} + \frac{1}{63}\sqrt{938}e^{35}$	$(-\frac{2}{63}, \frac{4}{21}, \frac{8}{21}, \frac{8}{21}, -\frac{2}{63}, -\frac{43}{63}, \frac{10}{63}, \frac{22}{63}, \frac{22}{63})$ $+ \frac{1}{63}\sqrt{7102}e^4 \otimes e_6$	{12356789, 12679, 135689, 169, 236, 2568, 367, 5678, 12356789, 12679, 135689, 169, 236, 2568, 367, 5678}
931:49	$0, 0, 0, 0, 0, \frac{1}{63}\sqrt{134}e^{12}, \frac{1}{63}\sqrt{938}e^{13} + \frac{1}{63}\sqrt{2546}e^{45},$ $\frac{2}{63}\sqrt{670}e^{14} + \frac{1}{63}\sqrt{134}e^{27} + \frac{1}{63}\sqrt{938}e^{35}$	$(-\frac{2}{63}, \frac{4}{21}, \frac{8}{21}, \frac{8}{21}, -\frac{2}{63}, -\frac{43}{63}, \frac{10}{63}, \frac{22}{63}, \frac{22}{63})$ $+ \frac{1}{63}\sqrt{7102}e^4 \otimes e_6$	{12356789, 12679, 135689, 169, 236, 2568, 367, 5678, 12356789, 12679, 135689, 169, 236, 2568, 367, 5678}
931:50	$0, 0, 0, 0, 0, \frac{37}{3703}\sqrt{358}e^{12}, \frac{148}{3703}\sqrt{202}e^{13} + \frac{296}{3703}\sqrt{6}e^{45},$ $\frac{37}{3703}\sqrt{1626}e^{17} + \frac{148}{3703}\sqrt{139}e^{24} + \frac{37}{3703}\sqrt{78}e^{35}$	$(-\frac{296}{3703}, \frac{1258}{3703}, \frac{185}{3703}, -\frac{592}{3703}, \frac{481}{3703}, -\frac{1184}{3703}, \frac{962}{3703}, -\frac{111}{3703}, \frac{666}{3703})$ $+ \frac{333}{3703}\sqrt{46}e^2 \otimes e_8 + \frac{444}{3703}\sqrt{21}e^3 \otimes e_6$	{168, 2569}
931:50	$0, 0, 0, 0, 0, \frac{40}{1787}\sqrt{89}e^{12}, \frac{40}{1787}\sqrt{322}e^{13} + \frac{40}{1787}\sqrt{102}e^{45},$ $\frac{80}{1787}\sqrt{3}e^{17} + \frac{40}{1787}\sqrt{541}e^{24} + \frac{40}{1787}\sqrt{39}e^{35}$	$(-\frac{220}{1787}, \frac{500}{1787}, -\frac{80}{1787}, -\frac{440}{1787}, \frac{140}{1787}, \frac{860}{1787}, \frac{280}{1787}, -\frac{300}{1787}, \frac{60}{1787})$ $+ \frac{120}{1787}\sqrt{103}e^2 \otimes e_8 + \frac{120}{1787}\sqrt{73}e^6 \otimes e_9$	{15678, 279}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:50	$0, 0, 0, 0, 0, 0, \frac{5}{109}\sqrt{70}e^{12}, \frac{5}{763}\sqrt{2590}e^{13} + \frac{50}{763}\sqrt{21}e^{45},$ $\frac{10}{109}\sqrt{6}e^{17} + \frac{5}{109}\sqrt{82}e^{24} + \frac{5}{763}\sqrt{2226}e^{35}$	$(-\frac{5}{109}, \frac{25}{109}, \frac{5}{109}, -\frac{10}{109}, \frac{10}{109}, -\frac{35}{109}, \frac{20}{109}, 0, \frac{15}{109})$ $+\frac{30}{763}\sqrt{119}e^4 \otimes e_6 + \frac{30}{763}\sqrt{154}e^2 \otimes e_8$	{1568, 269}
931:50	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{12122}e^{12}, \frac{10}{287}\sqrt{418}e^{13} + \frac{4}{287}\sqrt{1254}e^{45},$ $\frac{11}{287}\sqrt{114}e^{17} + \frac{10}{287}\sqrt{418}e^{24} + \frac{19}{287}\sqrt{66}e^{35}$	$(-\frac{52}{287}, \frac{158}{287}, \frac{1}{287}, -\frac{104}{287}, \frac{53}{287}, \frac{44}{287}, \frac{106}{287}, -\frac{51}{287}, \frac{54}{287})$ $+\frac{9}{287}\sqrt{1254}e^2 \otimes e_8$	{146789, 14789, 24567, 2457}
931:50	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{190}e^{12}, \frac{1}{35}\sqrt{874}e^{13} + \frac{6}{35}\sqrt{19}e^{45},$ $\frac{1}{35}\sqrt{57}e^{17} + \frac{1}{35}\sqrt{133}e^{24} + \frac{1}{35}\sqrt{399}e^{35}$	$(-\frac{1}{14}, \frac{13}{70}, -\frac{1}{70}, -\frac{1}{7}, \frac{2}{35}, 1, \frac{4}{35}, -\frac{3}{35}, \frac{3}{70})$ $+\frac{3}{35}\sqrt{247}e^6 \otimes e_8$	{136, 158, 23589, 269}
931:50	$0, 0, 0, 0, 0, 0, \frac{22}{587}\sqrt{470}e^{12}, \frac{4}{587}\sqrt{705}e^{13} + \frac{2}{587}\sqrt{21385}e^{45},$ $\frac{2}{587}\sqrt{59690}e^{17} + \frac{2}{587}\sqrt{35485}e^{24} + \frac{12}{587}\sqrt{235}e^{35}$	$(\frac{79}{587}, \frac{7}{587}, \frac{122}{587}, \frac{158}{587}, \frac{43}{587}, -\frac{391}{587}, \frac{86}{587}, \frac{201}{587}, \frac{165}{587})$ $+\frac{2}{587}\sqrt{114915}e^1 \otimes e_6$	{123459, 12489, 3468, 456}
931:50	$0, 0, 0, 0, 0, 0, \frac{2}{529}\sqrt{24130}e^{12}, \frac{508}{529}e^{13} + \frac{14}{529}\sqrt{762}e^{45},$ $\frac{14}{529}\sqrt{762}e^{17} + \frac{2}{529}\sqrt{25654}e^{24} + \frac{4}{529}\sqrt{9906}e^{35}$	$(\frac{58}{529}, \frac{64}{529}, \frac{119}{529}, \frac{116}{529}, \frac{61}{529}, -\frac{389}{529}, \frac{122}{529}, \frac{177}{529}, \frac{180}{529})$ $+\frac{6}{529}\sqrt{12954}e^3 \otimes e_6$	{135, 168, 2389, 2569}
931:50	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{190}e^{12}, \frac{1}{35}\sqrt{133}e^{13} + \frac{6}{35}\sqrt{19}e^{45},$ $\frac{1}{35}\sqrt{57}e^{17} + \frac{1}{35}\sqrt{874}e^{24} + \frac{1}{35}\sqrt{399}e^{35}$	$(\frac{29}{140}, -\frac{13}{140}, \frac{37}{140}, \frac{29}{70}, \frac{2}{35}, -\frac{47}{70}, \frac{4}{35}, \frac{33}{70}, \frac{9}{28})$ $+\frac{3}{35}\sqrt{247}e^4 \otimes e_6$	{136, 1568, 235689, 269}
931:50	$0, 0, 0, 0, 0, 0, \frac{34}{2129}\sqrt{518}e^{12}, \frac{68}{2129}\sqrt{110}e^{13} + \frac{34}{2129}\sqrt{321}e^{45},$ $\frac{238}{2129}\sqrt{6}e^{17} + \frac{102}{2129}\sqrt{15}e^{24} + \frac{612}{2129}e^{35}$	$(-\frac{119}{2129}, \frac{561}{2129}, \frac{102}{2129}, -\frac{238}{2129}, \frac{221}{2129}, -\frac{697}{2129}, \frac{442}{2129}, -\frac{17}{2129}, \frac{323}{2129})$ $+\frac{34}{2129}\sqrt{915}e^1 \otimes e_6 + \frac{68}{2129}\sqrt{249}e^2 \otimes e_8$	{1578, 2679}
931:50	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{2714}e^{12}, \frac{1}{71}\sqrt{3422}e^{13} + \frac{2}{71}\sqrt{1003}e^{45},$ $\frac{2}{71}\sqrt{413}e^{17} + \frac{1}{71}\sqrt{3422}e^{24} + \frac{3}{71}\sqrt{354}e^{35}$	$(\frac{3}{71}, \frac{17}{71}, \frac{13}{71}, \frac{6}{71}, \frac{10}{71}, -\frac{49}{71}, \frac{20}{71}, \frac{16}{71}, \frac{23}{71})$ $+\frac{2}{71}\sqrt{1770}e^5 \otimes e_6$	{1234689, 12459, 345, 468}
931:50	$0, 0, 0, 0, 0, 0, \frac{34}{575}\sqrt{11}e^{12}, \frac{34}{575}\sqrt{47}e^{13} + \frac{204}{575}e^{45},$ $\frac{34}{575}\sqrt{123}e^{17} + \frac{136}{575}\sqrt{7}e^{24} + \frac{34}{575}\sqrt{141}e^{35}$	$(\frac{11}{575}, -\frac{1}{23}, \frac{4}{575}, \frac{22}{575}, -\frac{7}{575}, 1, -\frac{14}{575}, \frac{3}{115}, -\frac{3}{575})$ $+\frac{102}{575}\sqrt{53}e^6 \otimes e_9$	{12389, 1259, 356, 68}
931:50	$0, 0, 0, 0, 0, 0, \frac{68}{571}\sqrt{38}e^{12}, \frac{2}{571}\sqrt{969}e^{13} + \frac{6}{571}\sqrt{646}e^{45},$ $\frac{6}{571}\sqrt{646}e^{17} + \frac{8}{571}\sqrt{3230}e^{24} + \frac{6}{571}\sqrt{323}e^{35}$	$(-\frac{21}{571}, \frac{275}{571}, \frac{106}{571}, -\frac{42}{571}, \frac{127}{571}, -\frac{371}{571}, \frac{254}{571}, \frac{85}{571}, \frac{233}{571})$ $+\frac{2}{571}\sqrt{152133}e^2 \otimes e_6$	{1234, 12458, 345689, 469}
931:51	$0, 0, 0, 0, 0, 0, \frac{46}{1059}\sqrt{370}e^{12}, \frac{46}{3177}\sqrt{1370}e^{13} + \frac{46}{3177}\sqrt{151}e^{45},$ $\frac{46}{1059}\sqrt{2}e^{17} + \frac{92}{3177}\sqrt{174}e^{34} + \frac{598}{3177}\sqrt{5}e^{56}$	$(\frac{161}{1059}, -\frac{575}{3177}, -\frac{46}{353}, \frac{805}{3177}, -\frac{736}{3177}, \frac{1127}{3177}, -\frac{92}{3177}, \frac{23}{1059}, \frac{391}{3177})$ $+\frac{184}{3177}\sqrt{107}e^6 \otimes e_8 + \frac{46}{3177}\sqrt{1205}e^1 \otimes e_2$	{148, 269}
931:51	$0, 0, 0, 0, 0, 0, \frac{6}{641}\sqrt{5795}e^{12}, \frac{4}{641}\sqrt{6555}e^{13} + \frac{2}{641}\sqrt{60990}e^{45},$ $\frac{15}{641}\sqrt{190}e^{17} + \frac{1}{641}\sqrt{79230}e^{34} + \frac{1}{641}\sqrt{26790}e^{56}$	$(-\frac{201}{641}, \frac{458}{641}, \frac{89}{641}, -\frac{33}{641}, -\frac{79}{641}, \frac{135}{641}, \frac{257}{641}, -\frac{112}{641}, \frac{56}{641})$ $+\frac{3}{641}\sqrt{67070}e^2 \otimes e_8$	{1234569, 14678, 279, 358}
931:51	$0, 0, 0, 0, 0, 0, \frac{6}{2441}\sqrt{16834}e^{12}, \frac{2}{2441}\sqrt{991434}e^{13} + \frac{6}{2441}\sqrt{1329}e^{45},$ $\frac{2}{2441}\sqrt{890430}e^{17} + \frac{4}{2441}\sqrt{114294}e^{34} + \frac{2}{2441}\sqrt{38541}e^{56}$	$(\frac{1139}{2441}, -\frac{1519}{2441}, \frac{2}{2441}, \frac{757}{2441}, \frac{384}{2441}, \frac{375}{2441}, -\frac{380}{2441}, \frac{1141}{2441}, \frac{759}{2441})$ $+\frac{6}{2441}\sqrt{300797}e^1 \otimes e_2$	{13469, 1689, 238, 24}
931:51	$0, 0, 0, 0, 0, 0, \frac{24}{2465}\sqrt{2946}e^{12}, \frac{2}{2465}\sqrt{633390}e^{13} + \frac{12}{2465}\sqrt{45663}e^{45},$ $\frac{2}{2465}\sqrt{646647}e^{17} + \frac{2}{2465}\sqrt{175287}e^{34} + \frac{2}{2465}\sqrt{491982}e^{56}$	$(\frac{137}{2465}, \frac{146}{2465}, \frac{983}{2465}, -\frac{563}{2465}, \frac{99}{145}, -\frac{1263}{2465}, \frac{283}{2465}, \frac{224}{493}, \frac{84}{493})$ $+\frac{6}{2465}\sqrt{332407}e^5 \otimes e_6$	{13578, 1457, 36, 468}
931:51	$0, 0, 0, 0, 0, 0, \frac{9}{239}\sqrt{114}e^{12}, \frac{3}{239}\sqrt{4294}e^{13} + \frac{6}{239}\sqrt{247}e^{45},$ $\frac{3}{239}\sqrt{1634}e^{17} + \frac{12}{239}\sqrt{133}e^{34} + \frac{12}{239}\sqrt{247}e^{56}$	$(-\frac{11}{239}, \frac{59}{239}, -\frac{25}{239}, \frac{62}{239}, -\frac{98}{239}, \frac{135}{239}, \frac{48}{239}, -\frac{36}{239}, \frac{37}{239})$ $+\frac{9}{239}\sqrt{874}e^6 \otimes e_8$	{125789, 148, 269, 4567}
931:51	$0, 0, 0, 0, 0, 0, \frac{21}{2095}\sqrt{114}e^{12}, \frac{42}{2095}\sqrt{255}e^{13} + \frac{21}{2095}\sqrt{2658}e^{45},$ $\frac{63}{2095}\sqrt{318}e^{17} + \frac{63}{2095}\sqrt{158}e^{34} + \frac{84}{2095}\sqrt{57}e^{56}$	$(\frac{546}{2095}, -\frac{777}{2095}, \frac{294}{2095}, \frac{21}{2095}, \frac{819}{2095}, -\frac{504}{2095}, -\frac{231}{2095}, \frac{168}{419}, \frac{63}{419})$ $+\frac{21}{2095}\sqrt{5298}e^5 \otimes e_6 + \frac{21}{2095}\sqrt{5910}e^1 \otimes e_2$	{1367, 14678}
931:52	$0, 0, 0, 0, 0, 0, \frac{1}{367}\sqrt{16530}e^{12}, \frac{1}{367}\sqrt{81510}e^{13} + \frac{3}{367}\sqrt{3990}e^{45},$ $\frac{1}{367}\sqrt{3990}e^{27} + \frac{24}{367}\sqrt{95}e^{34} + \frac{1}{367}\sqrt{74670}e^{56}$	$(-\frac{58}{367}, \frac{78}{367}, \frac{9}{367}, \frac{89}{367}, -\frac{138}{367}, \frac{236}{367}, \frac{20}{367}, -\frac{49}{367}, \frac{98}{367})$ $+\frac{1}{367}\sqrt{177270}e^6 \otimes e_8$	{12478, 148, 269, 679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:52	$0, 0, 0, 0, 0, 0, \frac{2}{2921}\sqrt{470814}e^{12}, \frac{2}{2921}\sqrt{478002}e^{13} + \frac{4}{2921}\sqrt{542694}e^{45},$ $\frac{2}{2921}\sqrt{573243}e^{27} + \frac{4}{2921}\sqrt{68286}e^{34} + \frac{6}{2921}\sqrt{56905}e^{56}$	$(\frac{524}{2921}, -\frac{61}{2921}, \frac{938}{2921}, -\frac{536}{2921}, \frac{1998}{2921}, -\frac{1596}{2921}, \frac{463}{2921}, \frac{1462}{2921}, \frac{402}{2921})$ $+ \frac{98}{2921}\sqrt{1797}e^5 \otimes e_6$	{2367, 24678, 36, 468}
931:52	$0, 0, 0, 0, 0, 0, \frac{1}{1521}\sqrt{460534}e^{12}, \frac{14}{1521}\sqrt{1689}e^{13} + \frac{2}{1521}\sqrt{174530}e^{45},$ $\frac{2}{1521}\sqrt{202117}e^{27} + \frac{2}{1521}\sqrt{109785}e^{34} + \frac{1}{169}\sqrt{3378}e^{56}$	$(-\frac{484}{1521}, \frac{394}{1521}, \frac{35}{169}, -\frac{11}{1521}, -\frac{158}{1521}, \frac{154}{507}, -\frac{10}{169}, -\frac{1}{9}, \frac{304}{1521})$ $+ \frac{2}{1521}\sqrt{366513}e^2 \otimes e_8$	{1234569, 156789, 2457, 358}
931:52	$0, 0, 0, 0, 0, 0, \frac{45}{1183}\sqrt{42}e^{12}, \frac{10}{1183}\sqrt{406}e^{13} + \frac{5}{1183}\sqrt{7014}e^{45},$ $\frac{5}{169}\sqrt{122}e^{27} + \frac{5}{1183}\sqrt{3458}e^{34} + \frac{15}{169}\sqrt{6}e^{56}$	$(-\frac{35}{169}, \frac{25}{169}, \frac{35}{169}, -\frac{20}{169}, \frac{20}{169}, -\frac{5}{169}, -\frac{10}{169}, 0, \frac{15}{169})$ $+ \frac{10}{91}\sqrt{7}e^5 \otimes e_6 + \frac{5}{1183}\sqrt{10234}e^2 \otimes e_8$	{2457, 358}
931:53	$0, 0, 0, 0, 0, 0, \frac{12}{211}\sqrt{70}e^{12}, \frac{8}{211}\sqrt{42}e^{13} + \frac{8}{211}\sqrt{21}e^{24} + \frac{12}{211}\sqrt{70}e^{56},$ $\frac{24}{211}\sqrt{14}e^{17} + \frac{4}{211}\sqrt{462}e^{34}$	$(\frac{20}{211}, \frac{26}{211}, \frac{36}{211}, \frac{30}{211}, \frac{196}{211}, -\frac{140}{211}, \frac{46}{211}, \frac{56}{211}, \frac{66}{211})$ $+ \frac{336}{211}e^5 \otimes e_6$	{123589, 123689, 134578, 134678}
931:53	$0, 0, 0, 0, 0, 0, \frac{78}{659}\sqrt{15}e^{12},$ $\frac{6}{659}\sqrt{3855}e^{13} + \frac{12}{659}\sqrt{570}e^{24} + \frac{12}{659}\sqrt{1335}e^{56}, \frac{90}{659}\sqrt{14}e^{17} + \frac{6}{659}\sqrt{4290}e^{34}$	$(-\frac{24}{659}, \frac{81}{659}, \frac{69}{659}, -\frac{36}{659}, \frac{303}{659}, -\frac{258}{659}, \frac{57}{659}, \frac{45}{659}, \frac{33}{659})$ $+ \frac{18}{659}\sqrt{935}e^5 \otimes e_9$	{2379, 246789, 3456, 58}
931:54	$0, 0, 0, 0, 0, 0, \frac{4}{701}\sqrt{7395}e^{12},$ $\frac{6}{701}\sqrt{6035}e^{13} + \frac{6}{701}\sqrt{510}e^{25} + \frac{4}{701}\sqrt{17085}e^{46}, \frac{2}{701}\sqrt{66810}e^{17} + \frac{16}{701}\sqrt{510}e^{34}$	$(-\frac{48}{701}, \frac{19}{701}, \frac{202}{701}, -\frac{279}{701}, \frac{135}{701}, \frac{433}{701}, -\frac{29}{701}, \frac{154}{701}, -\frac{77}{701})$ $+ \frac{4}{701}\sqrt{37230}e^6 \otimes e_9$	{2379, 245789, 3456, 68}
931:54	$0, 0, 0, 0, 0, 0, \frac{2}{2733}\sqrt{1830110}e^{12},$ $\frac{2}{2733}\sqrt{599403}e^{13} + \frac{4}{911}\sqrt{8395}e^{25} + \frac{4}{2733}\sqrt{132641}e^{46},$ $\frac{32}{2733}\sqrt{1679}e^{17} + \frac{14}{2733}\sqrt{3358}e^{34}$	$(-\frac{160}{911}, \frac{1823}{2733}, \frac{256}{911}, \frac{95}{2733}, -\frac{1535}{2733}, \frac{193}{2733}, \frac{1343}{2733}, \frac{96}{911}, \frac{863}{2733})$ $+ \frac{8}{2733}\sqrt{233381}e^2 \otimes e_5$	{12469, 157, 2379, 3456}
931:54	$0, 0, 0, 0, 0, 0, \frac{84}{923}\sqrt{26}e^{12}, \frac{28}{923}\sqrt{230}e^{13} + \frac{14}{923}\sqrt{210}e^{25} + \frac{56}{923}\sqrt{65}e^{46},$ $\frac{14}{923}\sqrt{970}e^{17} + \frac{210}{923}\sqrt{2}e^{34}$	$(-\frac{140}{923}, \frac{238}{923}, \frac{224}{923}, -\frac{266}{923}, -\frac{154}{923}, \frac{350}{923}, \frac{98}{923}, \frac{84}{923}, -\frac{42}{923})$ $+ \frac{14}{923}\sqrt{2014}e^6 \otimes e_9 + \frac{28}{923}\sqrt{313}e^2 \otimes e_5$	{2379, 3456}
931:54	$0, 0, 0, 0, 0, 0, \frac{2}{2661}\sqrt{241630}e^{12},$ $\frac{2}{2661}\sqrt{365755}e^{13} + \frac{4}{887}\sqrt{11585}e^{25} + \frac{4}{2661}\sqrt{87715}e^{46},$ $\frac{16}{2661}\sqrt{3310}e^{17} + \frac{2}{2661}\sqrt{1777470}e^{34}$	$(\frac{224}{887}, \frac{71}{2661}, -\frac{128}{887}, \frac{1799}{2661}, \frac{217}{2661}, -\frac{1511}{2661}, \frac{743}{2661}, \frac{96}{887}, \frac{1415}{2661})$ $+ \frac{8}{2661}\sqrt{226735}e^4 \otimes e_6$	{1256, 1479, 23457, 369}
931:54	$0, 0, 0, 0, 0, 0, \frac{33}{962}\sqrt{6}e^{12},$ $\frac{11}{481}\sqrt{215}e^{13} + \frac{11}{962}\sqrt{1358}e^{25} + \frac{11}{962}\sqrt{570}e^{46}, \frac{11}{962}\sqrt{634}e^{17} + \frac{33}{481}\sqrt{43}e^{34}$	$(\frac{77}{481}, -\frac{121}{481}, -\frac{44}{481}, \frac{77}{481}, \frac{154}{481}, -\frac{44}{481}, -\frac{44}{481}, \frac{33}{481}, \frac{33}{481})$ $+ \frac{11}{962}\sqrt{1258}e^4 \otimes e_6 - \frac{77}{962}\sqrt{46}e^5 \otimes e_9$	{12567, 149, 2345, 3679}
931:54	$0, 0, 0, 0, 0, 0, \frac{33}{962}\sqrt{6}e^{12},$ $\frac{11}{481}\sqrt{215}e^{13} + \frac{11}{962}\sqrt{1358}e^{25} + \frac{11}{962}\sqrt{570}e^{46}, \frac{11}{962}\sqrt{634}e^{17} + \frac{33}{481}\sqrt{43}e^{34}$	$(\frac{77}{481}, -\frac{121}{481}, -\frac{44}{481}, \frac{77}{481}, \frac{154}{481}, -\frac{44}{481}, -\frac{44}{481}, \frac{33}{481}, \frac{33}{481})$ $+ \frac{11}{962}\sqrt{1258}e^4 \otimes e_6 + \frac{77}{962}\sqrt{46}e^5 \otimes e_9$	{12567, 149, 2345, 3679}
931:54	$0, 0, 0, 0, 0, 0, \frac{10}{2701}\sqrt{1502}e^{12},$ $\frac{2}{2701}\sqrt{580523}e^{13} + \frac{4}{2701}\sqrt{244826}e^{25} + \frac{4}{2701}\sqrt{72847}e^{46},$ $\frac{4}{2701}\sqrt{153955}e^{17} + \frac{26}{2701}\sqrt{4506}e^{34}$	$(\frac{384}{2701}, -\frac{873}{2701}, \frac{140}{2701}, -\frac{245}{2701}, \frac{1397}{2701}, \frac{769}{2701}, -\frac{489}{2701}, \frac{524}{2701}, -\frac{105}{2701})$ $+ \frac{8}{2701}\sqrt{108895}e^5 \otimes e_9$	{12567, 149, 2345, 3679}
931:55	$0, 0, 0, 0, 0, 0, \frac{1}{273}\sqrt{7205}e^{12},$ $\frac{1}{546}\sqrt{129035}e^{15} + \frac{5}{546}\sqrt{3930}e^{23} + \frac{4}{273}\sqrt{1310}e^{46}, \frac{1}{546}\sqrt{116590}e^{17} + \frac{1}{273}\sqrt{84495}e^{34}$	$(\frac{29}{273}, \frac{95}{364}, -\frac{187}{1092}, \frac{176}{273}, -\frac{3}{182}, -\frac{101}{182}, \frac{401}{1092}, \frac{7}{78}, \frac{517}{1092})$ $+ \frac{1}{546}\sqrt{598015}e^4 \otimes e_6$	{1256, 135679, 267, 369}
931:55	$0, 0, 0, 0, 0, 0, \frac{1}{114}\sqrt{8466}e^{12}, \frac{2}{57}\sqrt{415}e^{15} + \frac{1}{114}\sqrt{166}e^{23} + \frac{1}{114}\sqrt{4399}e^{46},$ $\frac{1}{114}\sqrt{9794}e^{17} + \frac{1}{114}\sqrt{3818}e^{34}$	$(\frac{22}{57}, -\frac{23}{76}, \frac{79}{228}, \frac{7}{57}, -\frac{13}{38}, -\frac{3}{38}, \frac{1}{12}, \frac{5}{114}, \frac{107}{228})$ $+ \frac{1}{114}\sqrt{16019}e^1 \otimes e_5$	{123469, 1467, 2345679, 456}
931:55	$0, 0, 0, 0, 0, 0, \frac{44}{2199}\sqrt{255}e^{12},$ $\frac{11}{2199}\sqrt{4170}e^{15} + \frac{22}{2199}\sqrt{174}e^{23} + \frac{11}{2199}\sqrt{4254}e^{46}, \frac{11}{2199}\sqrt{6078}e^{17} + \frac{11}{2199}\sqrt{870}e^{34}$	$(\frac{77}{733}, -\frac{121}{733}, \frac{154}{733}, -\frac{121}{733}, -\frac{44}{733}, \frac{154}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{22}{2199}\sqrt{1455}e^6 \otimes e_9 + \frac{22}{2199}\sqrt{1542}e^1 \otimes e_5$	{129, 2579}
931:55	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{15}e^{12}, \frac{1}{51}\sqrt{570}e^{15} + \frac{2}{51}\sqrt{70}e^{23} + \frac{1}{51}\sqrt{310}e^{46},$ $\frac{1}{51}\sqrt{130}e^{17} + \frac{5}{51}\sqrt{30}e^{34}$	$(-\frac{3}{17}, \frac{5}{17}, -\frac{4}{17}, \frac{3}{17}, \frac{4}{17}, -\frac{2}{17}, \frac{2}{17}, \frac{1}{17}, -\frac{1}{17})$ $+ \frac{10}{51}\sqrt{6}e^4 \otimes e_6 + \frac{2}{51}\sqrt{205}e^5 \otimes e_9$	{1345, 249}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:55	$0, 0, 0, 0, 0, 0, \frac{1}{585}\sqrt{86830e^{12}},$ $\frac{1}{585}\sqrt{121562e^{15}} + \frac{2}{195}\sqrt{1371e^{23}} + \frac{1}{585}\sqrt{216618e^{46}},$ $\frac{1}{585}\sqrt{200166e^{17}} + \frac{1}{585}\sqrt{55754e^{34}}$	$(-\frac{83}{585}, \frac{19}{195}, \frac{7}{45}, -\frac{40}{117}, \frac{77}{195}, \frac{116}{195}, -\frac{2}{45}, \frac{148}{585}, -\frac{109}{585})$ $+\frac{1}{585}\sqrt{445118e^6} \otimes e_9$	{13467, 15678, 3456, 68}
931:55	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{285e^{12}}, \frac{19}{123}\sqrt{30e^{15}} + \frac{8}{369}\sqrt{570e^{23}} + \frac{1}{369}\sqrt{41610e^{46}},$ $\frac{1}{369}\sqrt{6270e^{17}} + \frac{5}{123}\sqrt{418e^{34}}$	$(-\frac{37}{123}, \frac{15}{41}, -\frac{16}{123}, -\frac{13}{123}, \frac{22}{41}, \frac{14}{41}, \frac{8}{123}, \frac{29}{123}, -\frac{29}{123})$ $+\frac{2}{369}\sqrt{45030e^5} \otimes e_9$	{12567, 14689, 234568, 3679}
931:56	$0, 0, 0, 0, 0, 0, \frac{1}{379}\sqrt{45978e^{12}}, \frac{1}{379}\sqrt{39342e^{34}} + \frac{1}{379}\sqrt{60198e^{56}},$ $\frac{4}{379}\sqrt{2607e^{13}} + \frac{2}{379}\sqrt{2370e^{27}} + \frac{1}{379}\sqrt{40290e^{45}}$	$(\frac{194}{379}, -\frac{54}{379}, -\frac{108}{379}, \frac{65}{379}, \frac{21}{379}, -\frac{64}{379}, \frac{140}{379}, -\frac{43}{379}, \frac{86}{379})$ $+\frac{158}{379}\sqrt{6e^1} \otimes e_8$	{129, 179, 24678, 468}
931:56	$0, 0, 0, 0, 0, 0, \frac{13}{319}\sqrt{130e^{12}}, \frac{13}{319}\sqrt{94e^{34}} + \frac{13}{319}\sqrt{142e^{56}},$ $\frac{52}{319}\sqrt{6e^{13}} + \frac{26}{319}\sqrt{2e^{27}} + \frac{13}{319}\sqrt{34e^{45}}$	$(\frac{130}{319}, -\frac{26}{319}, -\frac{52}{319}, \frac{13}{319}, \frac{65}{319}, -\frac{104}{319}, \frac{104}{319}, -\frac{39}{319}, \frac{78}{319})$ $+\frac{260}{319}e^1 \otimes e_8 + \frac{26}{319}\sqrt{38e^5} \otimes e_6$	{24678, 468}
931:56	$0, 0, 0, 0, 0, 0, \frac{1}{1389}\sqrt{399970e^{12}}, \frac{1}{1389}\sqrt{149554e^{34}} + \frac{1}{463}\sqrt{38258e^{56}},$ $\frac{4}{1389}\sqrt{24346e^{13}} + \frac{2}{1389}\sqrt{66082e^{27}} + \frac{1}{1389}\sqrt{1992894e^{45}}$	$(\frac{230}{1389}, \frac{194}{1389}, \frac{388}{1389}, -\frac{99}{463}, \frac{305}{463}, -\frac{824}{1389}, \frac{424}{1389}, \frac{91}{1389}, \frac{206}{463})$ $+\frac{34}{1389}\sqrt{3478e^5} \otimes e_6$	{1245, 1457, 24679, 469}
931:56	$0, 0, 0, 0, 0, 0, \frac{1}{3079}\sqrt{3306e^{12}}, \frac{7}{3079}\sqrt{70e^{34}} + \frac{1}{3079}\sqrt{2190e^{56}},$ $\frac{4}{3079}\sqrt{155e^{13}} + \frac{8}{3079}\sqrt{65e^{27}} + \frac{1}{3079}\sqrt{2562e^{45}}$	$(\frac{34}{3079}, -\frac{14}{3079}, -\frac{28}{3079}, \frac{13}{3079}, -\frac{7}{3079}, -\frac{8}{3079}, \frac{20}{3079}, -\frac{15}{3079}, \frac{6}{3079})$ $+\frac{16}{3079}\sqrt{5e^5} \otimes e_6 + \frac{4}{3079}\sqrt{409e^2} \otimes e_8$	{1234569, 2347}
931:56	$0, 0, 0, 0, 0, 0, \frac{1}{1493}\sqrt{89914e^{12}}, \frac{1}{1493}\sqrt{89110e^{34}} + \frac{9}{1493}\sqrt{670e^{56}},$ $\frac{4}{1493}\sqrt{4355e^{13}} + \frac{40}{1493}\sqrt{67e^{27}} + \frac{3}{1493}\sqrt{5762e^{45}}$	$(\frac{38}{1493}, \frac{22}{1493}, \frac{44}{1493}, -\frac{89}{1493}, \frac{171}{1493}, -\frac{216}{1493}, \frac{60}{1493}, -\frac{45}{1493}, \frac{82}{1493})$ $+\frac{4}{1493}\sqrt{10921e^2} \otimes e_8$	{1234569, 136789, 2347, 358}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{235}\sqrt{3799e^{12}}, \frac{1}{235}\sqrt{14541e^{13}},$ $\frac{1}{235}\sqrt{4585e^{14}} + \frac{2}{235}\sqrt{2489e^{27}} + \frac{2}{235}\sqrt{2489e^{56}}$	$(-\frac{29}{235}, \frac{6}{235}, \frac{114}{235}, \frac{12}{235}, \frac{57}{235}, -\frac{74}{235}, -\frac{23}{235}, \frac{17}{235}, -\frac{17}{235})$ $+\frac{131}{235}e^5 \otimes e_6 + \frac{2}{235}\sqrt{9170e^3} \otimes e_9$	{2459, 2469, 4579, 4679}
931:57	$0, 0, 0, 0, 0, 0, \frac{6}{331}\sqrt{1199e^{12}}, \frac{6}{331}\sqrt{1199e^{13}},$ $\frac{6}{331}\sqrt{1155e^{14}} + \frac{72}{331}\sqrt{11e^{27}} + \frac{12}{331}\sqrt{11e^{56}}$	$(-\frac{62}{331}, \frac{78}{331}, -\frac{58}{331}, \frac{156}{331}, \frac{47}{331}, \frac{47}{331}, \frac{16}{331}, -\frac{120}{331}, \frac{94}{331})$ $+\frac{12}{331}\sqrt{770e^2} \otimes e_8$	{123459, 145789, 24567, 247, 34568, 348}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{4069}\sqrt{119113e^{12}}, \frac{2}{4069}\sqrt{586373e^{13}},$ $\frac{2}{4069}\sqrt{81579e^{14}} + \frac{2}{4069}\sqrt{152051e^{27}} + \frac{2}{4069}\sqrt{495985e^{56}}$	$(-\frac{622}{4069}, \frac{23}{313}, \frac{742}{4069}, \frac{46}{313}, \frac{886}{4069}, -\frac{70}{313}, \frac{323}{4069}, \frac{120}{4069}, -\frac{24}{4069})$ $+\frac{8}{4069}\sqrt{171967e^5} \otimes e_8 + \frac{4}{4069}\sqrt{45194e^3} \otimes e_9$	{123567, 1356, 259, 579}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{981}\sqrt{20374e^{12}}, \frac{4}{327}\sqrt{1670e^{13}},$ $\frac{2}{981}\sqrt{36907e^{14}} + \frac{4}{981}\sqrt{835e^{27}} + \frac{4}{981}\sqrt{43086e^{56}}$	$(\frac{244}{981}, -\frac{5}{109}, -\frac{263}{981}, -\frac{10}{109}, \frac{35}{109}, -\frac{161}{981}, \frac{199}{981}, -\frac{19}{981}, \frac{154}{981})$ $+\frac{4}{981}\sqrt{17034e^1} \otimes e_4 + \frac{4}{981}\sqrt{19873e^5} \otimes e_8$	{23478, 24567, 348, 456}
931:57	$0, 0, 0, 0, 0, 0, \frac{26}{889}\sqrt{65e^{12}}, \frac{26}{889}\sqrt{285e^{13}},$ $\frac{26}{889}\sqrt{31e^{14}} + \frac{312}{889}e^{27} + \frac{312}{889}e^{56}$	$(\frac{130}{889}, -\frac{104}{889}, \frac{260}{889}, -\frac{208}{889}, -\frac{39}{889}, -\frac{39}{889}, \frac{26}{889}, \frac{390}{889}, -\frac{78}{889})$ $+\frac{52}{889}\sqrt{110e^3} \otimes e_9 + \frac{52}{889}\sqrt{86e^1} \otimes e_4$	{2345678, 23478, 34568, 348}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{95e^{12}}, \frac{1}{81}\sqrt{1653e^{13}},$ $\frac{1}{27}\sqrt{209e^{14}} + \frac{2}{81}\sqrt{57e^{27}} + \frac{2}{81}\sqrt{57e^{56}}$	$(-\frac{5}{27}, \frac{2}{9}, -\frac{2}{27}, \frac{4}{9}, \frac{13}{27}, -\frac{2}{9}, \frac{1}{27}, -\frac{7}{27}, \frac{7}{27})$ $+\frac{19}{27}e^5 \otimes e_6 + \frac{2}{81}\sqrt{1254e^4} \otimes e_8$	{2358, 2368, 3578, 3678}
931:57	$0, 0, 0, 0, 0, 0, \frac{17}{1865}\sqrt{449e^{12}}, \frac{17}{1865}\sqrt{1149e^{13}},$ $\frac{17}{1865}\sqrt{455e^{14}} + \frac{68}{1865}\sqrt{74e^{27}} + \frac{34}{1865}\sqrt{86e^{56}}$	$(-\frac{391}{1865}, \frac{204}{1865}, \frac{306}{1865}, \frac{408}{1865}, \frac{153}{1865}, -\frac{136}{1865}, -\frac{187}{1865}, -\frac{17}{373}, \frac{17}{1865})$ $+\frac{289}{1865}e^5 \otimes e_6 + \frac{34}{373}\sqrt{14e^3} \otimes e_9 + \frac{68}{1865}\sqrt{105e^2} \otimes e_8$	{145789, 146789}
931:57	$0, 0, 0, 0, 0, 0, \frac{34}{3441}\sqrt{449e^{12}}, \frac{34}{3441}\sqrt{1149e^{13}},$ $\frac{34}{3441}\sqrt{455e^{14}} + \frac{136}{3441}\sqrt{74e^{27}} + \frac{68}{3441}\sqrt{86e^{56}}$	$(-\frac{782}{3441}, \frac{136}{1147}, \frac{204}{1147}, \frac{272}{1147}, \frac{17}{3441}, \frac{17}{3441}, -\frac{374}{3441}, -\frac{170}{3441}, \frac{34}{3441})$ $+\frac{136}{3441}\sqrt{105e^2} \otimes e_8 + \frac{340}{3441}\sqrt{14e^3} \otimes e_9$	{145789, 34568, 348}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{1653e^{12}}, \frac{1}{27}\sqrt{95e^{13}},$ $\frac{1}{27}\sqrt{209e^{14}} + \frac{2}{81}\sqrt{57e^{27}} + \frac{2}{81}\sqrt{57e^{56}}$	$(\frac{29}{81}, -\frac{4}{81}, -\frac{28}{81}, -\frac{8}{81}, \frac{13}{27}, -\frac{2}{9}, \frac{25}{81}, \frac{1}{27}, \frac{7}{27})$ $+\frac{19}{27}e^5 \otimes e_6 + \frac{2}{81}\sqrt{1254e^1} \otimes e_3$	{1245, 1246, 1457, 1467}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{162393e^{12}}, \frac{2}{2245}\sqrt{270655e^{13}},$ $\frac{6}{2245}\sqrt{2109e^{14}} + \frac{18}{2245}\sqrt{703e^{27}} + \frac{2}{2245}\sqrt{343767e^{56}}$	$(\frac{462}{2245}, \frac{123}{2245}, -\frac{944}{2245}, \frac{246}{2245}, \frac{924}{2245}, -\frac{216}{2245}, \frac{117}{449}, -\frac{482}{2245}, \frac{708}{2245})$ $+\frac{16}{2245}\sqrt{9139e^1} \otimes e_3 + \frac{76}{2245}\sqrt{555e^5} \otimes e_8$	{1248, 1478, 2346789, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:57	$0, 0, 0, 0, 0, 0, \frac{46}{2593}\sqrt{813}e^{12}, \frac{46}{2593}\sqrt{409}e^{13},$ $\frac{46}{2593}\sqrt{255}e^{14} + \frac{92}{2593}\sqrt{174}e^{27} + \frac{184}{2593}\sqrt{3}e^{56}$	$(\frac{138}{2593}, \frac{276}{2593}, -\frac{920}{2593}, \frac{552}{2593}, \frac{345}{2593}, \frac{345}{2593}, \frac{414}{2593}, -\frac{782}{2593}, \frac{690}{2593})$ $+ \frac{184}{2593}\sqrt{93}e^2 \otimes e_8 + \frac{92}{2593}\sqrt{202}e^1 \otimes e_3$	{1456789, 14789, 3458}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{105}\sqrt{1653}e^{12}, \frac{2}{35}\sqrt{95}e^{13},$ $\frac{2}{35}\sqrt{209}e^{14} + \frac{4}{105}\sqrt{57}e^{27} + \frac{4}{105}\sqrt{57}e^{56}$	$(\frac{58}{105}, -\frac{8}{105}, -\frac{8}{105}, -\frac{16}{105}, \frac{1}{5}, \frac{1}{5}, \frac{10}{21}, \frac{2}{105}, \frac{2}{5})$ $+ \frac{4}{105}\sqrt{1254}e^1 \otimes e_3$	{1245, 1457, 2345679, 23479, 34569, 349}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{21}\sqrt{78}e^{13},$ $\frac{1}{7}\sqrt{6}e^{14} + \frac{2}{21}\sqrt{6}e^{27} + \frac{2}{21}\sqrt{6}e^{56}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, 0, 0, -\frac{1}{7}, 0, 0)$ $-\frac{1}{21}\sqrt{102}e^4 \otimes e_8 + \frac{1}{7}\sqrt{14}e^3 \otimes e_9$	{1234567, 12347, 134, 13456, 2459, 4579}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{7}e^{12}, \frac{1}{21}\sqrt{78}e^{13},$ $\frac{1}{7}\sqrt{6}e^{14} + \frac{2}{21}\sqrt{6}e^{27} + \frac{2}{21}\sqrt{6}e^{56}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, 0, 0, -\frac{1}{7}, 0, 0)$ $+ \frac{1}{21}\sqrt{102}e^4 \otimes e_8 + \frac{1}{7}\sqrt{14}e^3 \otimes e_9$	{1234567, 12347, 134, 13456, 2459, 4579}
931:57	$0, 0, 0, 0, 0, 0, \frac{23}{1561}\sqrt{813}e^{12}, \frac{23}{1561}\sqrt{409}e^{13},$ $\frac{23}{1561}\sqrt{255}e^{14} + \frac{46}{1561}\sqrt{174}e^{27} + \frac{92}{1561}\sqrt{3}e^{56}$	$(\frac{69}{1561}, \frac{138}{1561}, -\frac{460}{1561}, \frac{276}{1561}, \frac{437}{1561}, -\frac{92}{1561}, \frac{207}{1561}, -\frac{391}{1561}, \frac{345}{1561})$ $+ \frac{46}{1561}\sqrt{202}e^1 \otimes e_3 + \frac{529}{1561}e^5 \otimes e_6 + \frac{92}{1561}\sqrt{93}e^2 \otimes e_8$	{3458, 3468}
931:57	$0, 0, 0, 0, 0, 0, \frac{3}{215}\sqrt{1199}e^{12}, \frac{3}{215}\sqrt{1199}e^{13},$ $\frac{3}{215}\sqrt{1155}e^{14} + \frac{36}{215}\sqrt{11}e^{27} + \frac{6}{215}\sqrt{11}e^{56}$	$(-\frac{31}{215}, \frac{39}{215}, -\frac{29}{215}, \frac{78}{215}, \frac{73}{215}, -\frac{26}{215}, \frac{8}{215}, -\frac{12}{43}, \frac{47}{215})$ $+ \frac{6}{215}\sqrt{770}e^2 \otimes e_8 + \frac{99}{215}e^5 \otimes e_6$	{123459, 123469, 145789, 146789}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{35}e^{12}, \frac{2}{81}\sqrt{1155}e^{13},$ $\frac{2}{81}\sqrt{595}e^{14} + \frac{2}{81}\sqrt{35}e^{27} + \frac{2}{81}\sqrt{1155}e^{56}$	$(-\frac{2}{81}, \frac{5}{27}, -\frac{20}{81}, \frac{10}{27}, \frac{16}{27}, -\frac{20}{81}, \frac{13}{81}, -\frac{22}{81}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^5 \otimes e_8$	{1234579, 1246789, 13459, 14689, 2348, 2456, 3478, 4567}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{339}\sqrt{3799}e^{12}, \frac{2}{339}\sqrt{14541}e^{13},$ $\frac{2}{339}\sqrt{4585}e^{14} + \frac{4}{339}\sqrt{2489}e^{27} + \frac{4}{339}\sqrt{2489}e^{56}$	$(-\frac{58}{339}, \frac{4}{113}, \frac{76}{113}, \frac{8}{113}, -\frac{17}{339}, -\frac{17}{339}, -\frac{46}{339}, \frac{170}{339}, -\frac{34}{339})$ $+ \frac{4}{339}\sqrt{9170}e^3 \otimes e_9$	{1234567, 12347, 134, 13456, 2459, 4579}
931:57	$0, 0, 0, 0, 0, 0, \frac{13}{2185}\sqrt{65}e^{12}, \frac{13}{2185}\sqrt{1583}e^{13},$ $\frac{26}{2185}\sqrt{111}e^{14} + \frac{26}{2185}\sqrt{95}e^{27} + \frac{13}{2185}\sqrt{1147}e^{56}$	$(\frac{13}{437}, -\frac{52}{2185}, \frac{26}{437}, \frac{104}{2185}, \frac{364}{2185}, \frac{403}{2185}, \frac{13}{2185}, \frac{39}{2185}, \frac{39}{2185})$ $+ \frac{13}{2185}\sqrt{1502}e^3 \otimes e_9 + \frac{13}{2185}\sqrt{1534}e^5 \otimes e_8 + \frac{13}{2185}\sqrt{993}e^1 \otimes e_4$	{23478, 348}
931:57	$0, 0, 0, 0, 0, 0, \frac{10}{83}\sqrt{43}e^{12}, \frac{10}{83}\sqrt{43}e^{13},$ $\frac{2}{83}\sqrt{731}e^{14} + \frac{4}{83}\sqrt{86}e^{27} + \frac{4}{83}\sqrt{86}e^{56}$	$(\frac{50}{83}, -\frac{18}{83}, -\frac{10}{83}, -\frac{36}{83}, \frac{7}{83}, \frac{7}{83}, \frac{32}{83}, \frac{40}{83}, \frac{14}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_4$	{2345678, 23478, 24567, 247, 34568, 348, 4, 456}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{8}e^{12}, \frac{1}{12}\sqrt{78}e^{13},$ $\frac{1}{8}\sqrt{6}e^{14} + \frac{1}{12}\sqrt{6}e^{27} + \frac{1}{12}\sqrt{6}e^{56}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+ \frac{1}{24}\sqrt{102}e^4 \otimes e_8 + \frac{1}{4}e^5 \otimes e_6 + \frac{1}{8}\sqrt{14}e^3 \otimes e_9$	{2459, 2469, 4579, 4679}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{8}e^{12}, \frac{1}{24}\sqrt{78}e^{13},$ $\frac{1}{8}\sqrt{6}e^{14} + \frac{1}{12}\sqrt{6}e^{27} + \frac{1}{12}\sqrt{6}e^{56}$	$(-\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, -\frac{1}{8}, 0, 0)$ $-\frac{1}{24}\sqrt{102}e^4 \otimes e_8 + \frac{1}{4}e^5 \otimes e_6 + \frac{1}{8}\sqrt{14}e^3 \otimes e_9$	{2459, 2469, 4579, 4679}
931:57	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{22}e^{12}, \frac{1}{17}\sqrt{22}e^{13},$ $\frac{2}{17}\sqrt{5}e^{14} + \frac{2}{17}\sqrt{5}e^{27} + \frac{1}{17}\sqrt{2}e^{56}$	$(\frac{2}{17}, 0, -\frac{4}{17}, 0, \frac{1}{17}, \frac{1}{17}, \frac{2}{17}, -\frac{2}{17}, \frac{2}{17})$ $+ \frac{1}{17}\sqrt{26}e^1 \otimes e_4 + \frac{6}{17}e^2 \otimes e_8$	{24567, 247, 34568, 348}
931:57	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{95}e^{12}, \frac{2}{105}\sqrt{1653}e^{13},$ $\frac{2}{35}\sqrt{209}e^{14} + \frac{4}{105}\sqrt{57}e^{27} + \frac{4}{105}\sqrt{57}e^{56}$	$(-\frac{2}{7}, \frac{12}{35}, -\frac{4}{35}, \frac{24}{35}, \frac{1}{5}, \frac{1}{5}, \frac{2}{35}, -\frac{2}{5}, \frac{2}{5})$ $+ \frac{4}{105}\sqrt{1254}e^4 \otimes e_8$	{1256789, 12789, 15689, 189, 2358, 3578}
931:58	$0, 0, 0, 0, 0, 0, \frac{6}{935}\sqrt{5954}e^{12}, \frac{4}{935}\sqrt{22213}e^{13},$ $\frac{8}{935}\sqrt{3206}e^{17} + \frac{935}{935}\sqrt{91142}e^{24} + \frac{2}{935}\sqrt{6870}e^{56}$	$(\frac{14}{85}, -\frac{16}{187}, -\frac{304}{935}, \frac{28}{85}, \frac{343}{935}, -\frac{23}{187}, \frac{74}{935}, -\frac{30}{187}, \frac{228}{935})$ $+ \frac{2}{935}\sqrt{142438}e^4 \otimes e_8 + \frac{458}{935}e^5 \otimes e_6$	{158, 168, 3578, 3678}
931:58	$0, 0, 0, 0, 0, 0, \frac{2}{3261}\sqrt{196142}e^{12}, \frac{4}{3261}\sqrt{203910}e^{13},$ $\frac{8}{1087}\sqrt{2913}e^{17} + \frac{4}{3261}\sqrt{204881}e^{24} + \frac{4}{3261}\sqrt{2913}e^{56}$	$(-\frac{78}{1087}, \frac{1244}{3261}, -\frac{464}{3261}, -\frac{156}{1087}, \frac{453}{1087}, -\frac{583}{187}, \frac{1010}{3261}, -\frac{698}{3261}, \frac{776}{3261})$ $+ \frac{1942}{3261}e^5 \otimes e_6 + \frac{2}{3261}\sqrt{1858494}e^2 \otimes e_8$	{12345, 12346, 2457, 2467}
931:58	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{298}e^{12}, \frac{2}{93}\sqrt{298}e^{13},$ $\frac{1}{93}\sqrt{745}e^{17} + \frac{1}{93}\sqrt{745}e^{24} + \frac{1}{31}\sqrt{149}e^{56}$	$(\frac{8}{93}, \frac{4}{31}, \frac{29}{186}, \frac{16}{93}, \frac{59}{62}, -\frac{121}{186}, \frac{20}{93}, \frac{15}{62}, \frac{28}{93})$ $+ \frac{149}{93}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 235789, 236789, 2579, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:58	$0, 0, 0, 0, 0, 0, \frac{3}{353} \sqrt{5954e^{12}}, \frac{2}{353} \sqrt{22213e^{13}},$ $\frac{4}{353} \sqrt{3206e^{17}} + \frac{1}{353} \sqrt{91142e^{24}} + \frac{1}{353} \sqrt{6870e^{56}}$	$(\frac{77}{353}, -\frac{40}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{57}{353}, \frac{57}{353}, \frac{37}{353}, -\frac{75}{353}, \frac{114}{353})$ $+ \frac{1}{353} \sqrt{142438e^4} \otimes e_8$	{1256789, 12789, 158, 235689, 2389, 3578}
931:58	$0, 0, 0, 0, 0, 0, \frac{36}{3371} \sqrt{239e^{12}}, \frac{36}{3371} \sqrt{1306e^{13}},$ $\frac{72}{3371} \sqrt{77e^{17}} + \frac{36}{3371} \sqrt{1191e^{24}} + \frac{36}{3371} \sqrt{345e^{56}}$	$(-\frac{432}{3371}, \frac{828}{3371}, \frac{612}{3371}, -\frac{864}{3371}, -\frac{18}{3371}, -\frac{18}{3371}, \frac{396}{3371}, \frac{180}{3371}, -\frac{36}{3371})$ $+ \frac{36}{3371} \sqrt{1453e^2} \otimes e_8 + \frac{36}{3371} \sqrt{1591e^3} \otimes e_9$	{259, 35678, 378}
931:58	$0, 0, 0, 0, 0, 0, \frac{42}{3361} \sqrt{111e^{12}}, \frac{56}{3361} \sqrt{103e^{13}},$ $\frac{28}{3361} \sqrt{146e^{17}} + \frac{392}{3361} \sqrt{2e^{24}} + \frac{56}{3361} \sqrt{15e^{56}}$	$(\frac{154}{3361}, -\frac{350}{3361}, \frac{56}{3361}, \frac{308}{3361}, -\frac{21}{3361}, -\frac{21}{3361}, -\frac{196}{3361}, \frac{210}{3361}, -\frac{42}{3361})$ $+ \frac{14}{3361} \sqrt{1657e^4} \otimes e_8 + \frac{42}{3361} \sqrt{165e^3} \otimes e_9$	{125789, 35678, 378}
931:58	$0, 0, 0, 0, 0, 0, \frac{57}{1909} \sqrt{282e^{12}}, \frac{19}{1909} \sqrt{1730e^{13}},$ $\frac{38}{1909} \sqrt{535e^{17}} + \frac{152}{1909} \sqrt{21e^{24}} + \frac{38}{1909} \sqrt{109e^{56}}$	$(-\frac{19}{1909}, \frac{323}{1909}, -\frac{380}{1909}, -\frac{38}{1909}, -\frac{38}{1909}, \frac{323}{1909}, \frac{304}{1909}, -\frac{399}{1909}, \frac{285}{1909})$ $+ \frac{19}{1909} \sqrt{1630e^2} \otimes e_4 + \frac{361}{1909} \sqrt{2e^5} \otimes e_8 + \frac{570}{1909} \sqrt{3e^1} \otimes e_3$	{1467, 346}
931:58	$0, 0, 0, 0, 0, 0, \frac{2}{931} \sqrt{76242e^{12}}, \frac{20}{931} \sqrt{131e^{13}},$ $\frac{2}{931} \sqrt{66810e^{17}} + \frac{2}{931} \sqrt{47946e^{24}} + \frac{12}{931} \sqrt{786e^{56}}$	$(\frac{144}{931}, -\frac{3}{931}, -\frac{20}{49}, \frac{288}{931}, \frac{288}{931}, -\frac{3}{931}, \frac{141}{931}, -\frac{236}{931}, \frac{15}{49})$ $+ \frac{2}{931} \sqrt{140170e^1} \otimes e_3 + \frac{2}{931} \sqrt{76242e^5} \otimes e_8$	{12459, 14567, 234579, 3456}
931:58	$0, 0, 0, 0, 0, 0, \frac{19}{803} \sqrt{582e^{12}}, \frac{76}{803} \sqrt{5e^{13}},$ $\frac{38}{803} \sqrt{102e^{17}} + \frac{38}{803} \sqrt{15e^{24}} + \frac{38}{803} \sqrt{15e^{56}}$	$(\frac{57}{803}, \frac{114}{803}, -\frac{304}{803}, \frac{114}{803}, \frac{114}{803}, \frac{114}{803}, \frac{171}{803}, -\frac{247}{803}, \frac{228}{803})$ $+ \frac{19}{803} \sqrt{582e^2} \otimes e_8 + \frac{38}{803} \sqrt{214e^1} \otimes e_3$	{124569, 1249, 2345679, 23479}
931:58	$0, 0, 0, 0, 0, 0, \frac{225}{4549} \sqrt{22e^{12}}, \frac{275}{4549} \sqrt{34e^{13}},$ $\frac{50}{4549} \sqrt{299e^{17}} + \frac{50}{4549} \sqrt{438e^{24}} + \frac{50}{4549} \sqrt{734e^{56}}$	$(-\frac{175}{4549}, \frac{275}{4549}, \frac{550}{4549}, -\frac{350}{4549}, \frac{1000}{4549}, -\frac{1075}{4549}, \frac{100}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+ \frac{125}{4549} \sqrt{166e^5} \otimes e_8 + \frac{150}{4549} \sqrt{123e^3} \otimes e_9 + \frac{25}{4549} \sqrt{266e^2} \otimes e_4$	{1356, 378}
931:58	$0, 0, 0, 0, 0, 0, \frac{50}{1417} \sqrt{11e^{12}}, \frac{25}{1417} \sqrt{462e^{13}},$ $\frac{50}{1417} \sqrt{33e^{17}} + \frac{25}{1417} \sqrt{341e^{24}} + \frac{25}{1417} \sqrt{3e^{56}}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{175}{1417} \sqrt{26e^3} \otimes e_9 + \frac{25}{1417} \sqrt{647e^2} \otimes e_4 + \frac{625}{1417} e^5 \otimes e_6$	{12589, 12689, 2579, 2679}
931:58	$0, 0, 0, 0, 0, 0, \frac{1}{1145} \sqrt{196142e^{12}}, \frac{2}{1145} \sqrt{203910e^{13}},$ $\frac{12}{1145} \sqrt{2913e^{17}} + \frac{2}{1145} \sqrt{204881e^{24}} + \frac{2}{1145} \sqrt{2913e^{56}}$	$(-\frac{117}{1145}, \frac{622}{1145}, -\frac{232}{1145}, \frac{234}{1145}, \frac{194}{1145}, \frac{194}{1145}, \frac{101}{1145}, \frac{349}{1145}, \frac{388}{1145})$ $+ \frac{1}{1145} \sqrt{1858494e^2} \otimes e_8$	{12345, 1456789, 14789, 2457, 345689, 3489}
931:58	$0, 0, 0, 0, 0, 0, \frac{100}{2209} \sqrt{11e^{12}}, \frac{50}{2209} \sqrt{462e^{13}},$ $\frac{100}{2209} \sqrt{33e^{17}} + \frac{50}{2209} \sqrt{341e^{24}} + \frac{50}{2209} \sqrt{3e^{56}}$	$(-\frac{350}{2209}, \frac{550}{2209}, \frac{1100}{2209}, -\frac{700}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, \frac{200}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{350}{2209} \sqrt{26e^3} \otimes e_9 + \frac{50}{2209} \sqrt{647e^2} \otimes e_4$	{12589, 2579}
931:58	$0, 0, 0, 0, 0, 0, \frac{5}{223} \sqrt{374e^{12}}, \frac{1}{223} \sqrt{3774e^{13}},$ $\frac{11}{223} \sqrt{170e^{17}} + \frac{4}{223} \sqrt{187e^{24}} + \frac{6}{223} \sqrt{935e^{56}}$	$(\frac{13}{223}, \frac{51}{223}, -\frac{67}{223}, \frac{26}{223}, \frac{133}{223}, -\frac{56}{223}, \frac{64}{223}, -\frac{54}{223}, \frac{77}{223})$ $+ \frac{3}{223} \sqrt{7854e^5} \otimes e_8$	{123579, 126789, 1356, 18, 23689, 259, 378, 567}
931:58	$0, 0, 0, 0, 0, 0, \frac{36}{3695} \sqrt{239e^{12}}, \frac{36}{3695} \sqrt{1306e^{13}},$ $\frac{72}{3695} \sqrt{77e^{17}} + \frac{36}{3695} \sqrt{1191e^{24}} + \frac{36}{3695} \sqrt{345e^{56}}$	$(-\frac{432}{3695}, \frac{828}{3695}, \frac{612}{3695}, -\frac{864}{3695}, \frac{306}{3695}, -\frac{342}{3695}, \frac{396}{3695}, \frac{36}{3695}, -\frac{36}{3695})$ $+ \frac{36}{3695} \sqrt{1453e^2} \otimes e_8 + \frac{36}{3695} \sqrt{1591e^3} \otimes e_9 + \frac{648}{3695} e^5 \otimes e_6$	{259, 269}
931:58	$0, 0, 0, 0, 0, 0, \frac{4}{935} \sqrt{22213e^{12}}, \frac{6}{935} \sqrt{5954e^{13}},$ $\frac{2}{935} \sqrt{91142e^{17}} + \frac{8}{935} \sqrt{3206e^{24}} + \frac{2}{935} \sqrt{6870e^{56}}$	$(\frac{14}{85}, -\frac{16}{187}, -\frac{304}{935}, \frac{28}{85}, \frac{343}{935}, -\frac{23}{187}, \frac{74}{935}, -\frac{30}{187}, \frac{228}{935})$ $+ \frac{2}{935} \sqrt{142438e^1} \otimes e_3 + \frac{458}{935} e^5 \otimes e_6$	{1457, 1467, 345, 346}
931:58	$0, 0, 0, 0, 0, 0, \frac{50}{1417} \sqrt{11e^{12}}, \frac{25}{1417} \sqrt{462e^{13}},$ $\frac{50}{1417} \sqrt{33e^{17}} + \frac{25}{1417} \sqrt{341e^{24}} + \frac{25}{1417} \sqrt{3e^{56}}$	$(-\frac{175}{1417}, \frac{275}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{100}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{175}{1417} \sqrt{26e^3} \otimes e_9 + \frac{25}{1417} \sqrt{647e^2} \otimes e_4 - \frac{625}{1417} e^5 \otimes e_6$	{12589, 12689, 2579, 2679}
931:58	$0, 0, 0, 0, 0, 0, \frac{76}{3457} \sqrt{454e^{12}}, \frac{456}{3457} \sqrt{7e^{13}},$ $\frac{38}{3457} \sqrt{1418e^{17}} + \frac{38}{3457} \sqrt{983e^{24}} + \frac{190}{3457} \sqrt{3e^{56}}$	$(-\frac{38}{3457}, \frac{646}{3457}, -\frac{760}{3457}, -\frac{76}{3457}, \frac{285}{3457}, \frac{285}{3457}, \frac{608}{3457}, -\frac{798}{3457}, \frac{570}{3457})$ $+ \frac{114}{3457} \sqrt{141e^2} \otimes e_4 + \frac{38}{3457} \sqrt{1978e^1} \otimes e_3$	{1457, 345}
931:58	$0, 0, 0, 0, 0, 0, \frac{1}{278} \sqrt{20119e^{12}}, \frac{1}{278} \sqrt{23870e^{13}},$ $\frac{1}{278} \sqrt{24211e^{17}} + \frac{1}{278} \sqrt{27962e^{24}} + \frac{3}{139} \sqrt{341e^{56}}$	$(-\frac{35}{139}, \frac{201}{278}, \frac{167}{556}, -\frac{70}{139}, \frac{61}{556}, \frac{61}{556}, \frac{131}{278}, \frac{27}{556}, \frac{61}{278})$ $+ \frac{3}{278} \sqrt{17391e^2} \otimes e_4$	{1345678, 13478, 14567, 147, 34, 3456, 4568, 48}
931:58	$0, 0, 0, 0, 0, 0, \frac{18}{3509} \sqrt{1857e^{12}}, \frac{702}{3509} \sqrt{3e^{13}},$ $\frac{54}{3509} \sqrt{145e^{17}} + \frac{18}{3509} \sqrt{1905e^{24}} + \frac{702}{3509} \sqrt{3309e^{56}}$	$(-\frac{168}{3509}, \frac{283}{3509}, \frac{433}{3509}, -\frac{336}{3509}, \frac{751}{3509}, -\frac{804}{3509}, \frac{115}{3509}, \frac{265}{3509}, -\frac{53}{3509})$ $+ \frac{18}{3509} \sqrt{4665e^5} \otimes e_8 + \frac{18}{3509} \sqrt{4965e^3} \otimes e_9$	{126789, 1356, 259, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:58	$0, 0, 0, 0, 0, 0, \frac{2}{353}\sqrt{22213e^{12}}, \frac{3}{353}\sqrt{5954e^{13}},$ $\frac{1}{353}\sqrt{91142e^{17}} + \frac{4}{353}\sqrt{3206e^{24}} + \frac{1}{353}\sqrt{6870e^{56}}$	$(\frac{77}{353}, -\frac{40}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{57}{353}, \frac{57}{353}, \frac{37}{353}, -\frac{75}{353}, \frac{114}{353})$ $+ \frac{1}{353}\sqrt{142438e^1} \otimes e_3$	{124569, 1249, 1457, 2345679, 23479, 345}
931:58	$0, 0, 0, 0, 0, 0, \frac{4}{3189}\sqrt{86802e^{12}}, \frac{4}{3189}\sqrt{189773e^{13}},$ $\frac{2}{3189}\sqrt{59570e^{17}} + \frac{4}{1063}\sqrt{4255e^{24}} + \frac{4}{3189}\sqrt{109779e^{56}}$	$(-\frac{166}{3189}, \frac{76}{3189}, \frac{482}{1063}, -\frac{332}{3189}, \frac{241}{1063}, -\frac{979}{3189}, -\frac{30}{1063}, \frac{1280}{3189}, -\frac{256}{3189})$ $+ \frac{10}{3189}\sqrt{66378e^3} \otimes e_9 + \frac{1702}{3189}e^5 \otimes e_6$	{14589, 14689, 4579, 4679}
931:58	$0, 0, 0, 0, 0, 0, \frac{38}{1909}\sqrt{454e^{12}}, \frac{228}{1909}\sqrt{7e^{13}},$ $\frac{19}{1909}\sqrt{1418e^{17}} + \frac{19}{1909}\sqrt{983e^{24}} + \frac{95}{1909}\sqrt{3e^{56}}$	$(-\frac{19}{1909}, \frac{323}{1909}, -\frac{380}{1909}, -\frac{38}{1909}, \frac{323}{1909}, -\frac{38}{1909}, \frac{304}{1909}, -\frac{399}{1909}, \frac{285}{1909})$ $+ \frac{19}{1909}\sqrt{1978e^1} \otimes e_3 - \frac{361}{1909}e^5 \otimes e_6 + \frac{57}{1909}\sqrt{141e^2} \otimes e_4$	{1457, 1467, 345, 346}
931:58	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{13e^{12}}, \frac{1}{22}\sqrt{130e^{13}},$ $\frac{1}{22}\sqrt{65e^{17}} + \frac{1}{22}\sqrt{26e^{24}} + \frac{1}{11}\sqrt{39e^{56}}$	$(-\frac{1}{11}, \frac{9}{22}, -\frac{5}{44}, -\frac{2}{11}, \frac{17}{44}, -\frac{7}{44}, \frac{7}{22}, -\frac{9}{44}, \frac{5}{22})$ $+ \frac{1}{11}\sqrt{78e^5} \otimes e_8 + \frac{1}{22}\sqrt{195e^2} \otimes e_4$	{12356, 128, 2378, 2567}
931:58	$0, 0, 0, 0, 0, 0, \frac{21}{1705}\sqrt{11e^{12}}, \frac{28}{1705}\sqrt{103e^{13}},$ $\frac{14}{1705}\sqrt{146e^{17}} + \frac{196}{1705}\sqrt{2e^{24}} + \frac{28}{1705}\sqrt{15e^{56}}$	$(\frac{7}{155}, -\frac{35}{341}, \frac{28}{1705}, \frac{14}{155}, \frac{14}{1705}, -\frac{7}{341}, -\frac{98}{1705}, \frac{21}{1705}, -\frac{21}{1705})$ $+ \frac{21}{1705}\sqrt{165e^3} \otimes e_9 + \frac{49}{1705}e^5 \otimes e_6 + \frac{7}{1705}\sqrt{1657e^4} \otimes e_8$	{125789, 126789}
931:58	$0, 0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{86802e^{12}}, \frac{2}{1169}\sqrt{189773e^{13}},$ $\frac{1}{1169}\sqrt{59570e^{17}} + \frac{12}{1169}\sqrt{4255e^{24}} + \frac{1}{1169}\sqrt{109779e^{56}}$	$(-\frac{83}{1169}, \frac{38}{1169}, \frac{723}{1169}, -\frac{166}{1169}, -\frac{64}{1169}, -\frac{64}{1169}, -\frac{45}{1169}, \frac{640}{1169}, -\frac{128}{1169})$ $+ \frac{5}{1169}\sqrt{66378e^3} \otimes e_9$	{1234567, 12347, 14589, 234568, 2348, 4579}
931:58	$0, 0, 0, 0, 0, 0, \frac{38}{1909}\sqrt{454e^{12}}, \frac{228}{1909}\sqrt{7e^{13}},$ $\frac{19}{1909}\sqrt{1418e^{17}} + \frac{19}{1909}\sqrt{983e^{24}} + \frac{95}{1909}\sqrt{3e^{56}}$	$(-\frac{19}{1909}, \frac{323}{1909}, -\frac{380}{1909}, -\frac{38}{1909}, \frac{323}{1909}, -\frac{38}{1909}, \frac{304}{1909}, -\frac{399}{1909}, \frac{285}{1909})$ $+ \frac{19}{1909}\sqrt{1978e^1} \otimes e_3 + \frac{361}{1909}e^5 \otimes e_6 + \frac{57}{1909}\sqrt{141e^2} \otimes e_4$	{1457, 1467, 345, 346}
931:59	$0, 0, 0, 0, 0, 0, \frac{22}{181}\sqrt{11e^{12}}, \frac{11}{181}\sqrt{30e^{13}} + \frac{11}{181}\sqrt{66e^{24}},$ $\frac{66}{181}\sqrt{2e^{14}} + \frac{11}{181}\sqrt{30e^{27}} + \frac{22}{181}\sqrt{3e^{35}}$	$(-\frac{11}{181}, \frac{22}{181}, \frac{77}{181}, \frac{44}{181}, -\frac{44}{181}, -\frac{77}{181}, \frac{11}{181}, \frac{66}{181}, \frac{33}{181})$ $+ \frac{11}{181}\sqrt{190e^4} \otimes e_6 + \frac{22}{181}\sqrt{34e^3} \otimes e_5$	{2368, 567}
931:59	$0, 0, 0, 0, 0, 0, \frac{46}{779}\sqrt{17e^{12}}, \frac{2}{779}\sqrt{23069e^{13}} + \frac{2}{779}\sqrt{23069e^{24}},$ $\frac{2}{779}\sqrt{71162e^{14}} + \frac{4}{779}\sqrt{16031e^{27}} + \frac{4}{779}\sqrt{16031e^{35}}$	$(-\frac{13}{779}, \frac{5}{779}, \frac{28}{779}, \frac{10}{779}, -\frac{31}{779}, 1, -\frac{8}{779}, \frac{15}{779}, -\frac{3}{779})$ $+ \frac{34}{779}\sqrt{874e^6} \otimes e_9$	{1259, 13789, 23567, 68}
931:59	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{357e^{12}}, \frac{1}{63}\sqrt{21e^{13}} + \frac{1}{63}\sqrt{1155e^{24}},$ $\frac{1}{9}\sqrt{3e^{14}} + \frac{2}{9}\sqrt{3e^{27}} + \frac{4}{63}\sqrt{42e^{35}}$	$(\frac{1}{6}, 0, -\frac{1}{6}, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{6})$ $+ \frac{2}{63}\sqrt{273e^4} \otimes e_6 - \frac{8}{63}\sqrt{21e^5} \otimes e_8$	{1236789, 1569, 268, 3567}
931:59	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{357e^{12}}, \frac{1}{63}\sqrt{21e^{13}} + \frac{1}{63}\sqrt{1155e^{24}},$ $\frac{1}{9}\sqrt{3e^{14}} + \frac{2}{9}\sqrt{3e^{27}} + \frac{4}{63}\sqrt{42e^{35}}$	$(\frac{1}{6}, 0, -\frac{1}{6}, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{6}, 0, \frac{1}{6})$ $+ \frac{2}{63}\sqrt{273e^4} \otimes e_6 + \frac{8}{63}\sqrt{21e^5} \otimes e_8$	{1236789, 1569, 268, 3567}
931:59	$0, 0, 0, 0, 0, 0, \frac{6}{2309}\sqrt{2526e^{12}}, \frac{36}{2309}\sqrt{2526e^{13}} + \frac{2}{2309}\sqrt{12630e^{24}},$ $\frac{2}{2309}\sqrt{400371e^{14}} + \frac{8}{2309}\sqrt{1263e^{27}} + \frac{6}{2309}\sqrt{91778e^{35}}$	$(\frac{46}{2309}, \frac{351}{2309}, \frac{1007}{2309}, \frac{702}{2309}, -\frac{259}{2309}, -\frac{1519}{2309}, \frac{397}{2309}, \frac{1053}{2309}, \frac{748}{2309})$ $+ \frac{6}{2309}\sqrt{268598e^3} \otimes e_6$	{12349, 1456789, 2467, 3458}
931:59	$0, 0, 0, 0, 0, 0, \frac{18}{2273}\sqrt{6441e^{12}}, \frac{6}{2273}\sqrt{80569e^{13}} + \frac{6}{2273}\sqrt{64523e^{24}},$ $\frac{24}{2273}\sqrt{4181e^{14}} + \frac{66}{2273}\sqrt{226e^{27}} + \frac{120}{2273}\sqrt{113e^{35}}$	$(\frac{455}{2273}, \frac{163}{2273}, \frac{34}{2273}, \frac{326}{2273}, \frac{747}{2273}, -\frac{1579}{2273}, \frac{618}{2273}, \frac{489}{2273}, \frac{781}{2273})$ $+ \frac{18}{2273}\sqrt{24182e^1} \otimes e_6$	{12359, 1789, 2567, 368}
931:59	$0, 0, 0, 0, 0, 0, \frac{9}{73}\sqrt{38e^{12}}, \frac{1}{73}\sqrt{627e^{13}} + \frac{3}{73}\sqrt{190e^{24}},$ $\frac{1}{73}\sqrt{1995e^{14}} + \frac{12}{73}\sqrt{19e^{27}} + \frac{1}{73}\sqrt{399e^{35}}$	$(\frac{15}{146}, \frac{7}{73}, \frac{27}{146}, \frac{14}{73}, \frac{8}{73}, -\frac{50}{73}, \frac{29}{146}, \frac{21}{73}, \frac{43}{146})$ $+ \frac{3}{73}\sqrt{779e^2} \otimes e_6$	{12459, 1346789, 23457, 468}
931:59	$0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{22e^{12}}, \frac{5}{47}\sqrt{58e^{13}} + \frac{5}{47}\sqrt{58e^{24}},$ $\frac{10}{47}\sqrt{5e^{14}} + \frac{5}{47}\sqrt{2e^{27}} + \frac{5}{47}\sqrt{2e^{35}}$	$(\frac{7}{94}, -\frac{1}{47}, -\frac{13}{94}, -\frac{2}{47}, \frac{8}{94}, 1, \frac{5}{94}, -\frac{3}{47}, \frac{3}{94})$ $+ \frac{5}{47}\sqrt{158e^6} \otimes e_8$	{12345679, 1489, 2456, 3478}
931:59	$0, 0, 0, 0, 0, 0, \frac{424}{6849}\sqrt{21e^{12}}, \frac{53}{6849}\sqrt{5370e^{13}} + \frac{53}{2283}\sqrt{334e^{24}},$ $\frac{212}{6849}\sqrt{113e^{14}} + \frac{53}{6849}\sqrt{1630e^{27}} + \frac{53}{6849}\sqrt{2558e^{35}}$	$(-\frac{53}{2283}, \frac{583}{6849}, \frac{212}{761}, \frac{1166}{6849}, -\frac{901}{6849}, -\frac{2968}{6849}, \frac{424}{6849}, \frac{583}{2283}, \frac{1007}{6849})$ $+ \frac{53}{6849}\sqrt{5494e^3} \otimes e_5 + \frac{53}{6849}\sqrt{7070e^1} \otimes e_6$	{2567, 368}
931:59	$0, 0, 0, 0, 0, 0, \frac{59}{5473}\sqrt{178e^{12}}, \frac{59}{5473}\sqrt{1714e^{13}} + \frac{59}{5473}\sqrt{1178e^{24}},$ $\frac{236}{5473}\sqrt{77e^{14}} + \frac{1180}{5473}\sqrt{5e^{27}} + \frac{59}{5473}\sqrt{554e^{35}}$	$(-\frac{59}{421}, \frac{295}{5473}, \frac{1652}{5473}, \frac{590}{5473}, -\frac{1829}{5473}, \frac{3304}{5473}, -\frac{472}{5473}, \frac{885}{5473}, -\frac{177}{5473})$ $+ \frac{177}{5473}\sqrt{482e^3} \otimes e_5 + \frac{59}{5473}\sqrt{5374e^6} \otimes e_9$	{23489, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:59	$0, 0, 0, 0, 0, 0, \frac{29}{1789}\sqrt{394}e^{12}, \frac{29}{1789}\sqrt{1414}e^{13} + \frac{29}{1789}\sqrt{382}e^{24},$ $\frac{29}{1789}\sqrt{323}e^{14} + \frac{29}{1789}\sqrt{187}e^{27} + \frac{29}{1789}\sqrt{329}e^{35}$	$(-\frac{203}{1789}, \frac{58}{1789}, \frac{377}{1789}, \frac{116}{1789}, -\frac{464}{1789}, \frac{1015}{1789}, -\frac{145}{1789}, \frac{174}{1789}, -\frac{87}{1789})$ $+\frac{174}{1789}\sqrt{43}e^3 \otimes e_5 + \frac{29}{1789}\sqrt{1739}e^6 \otimes e_8$	{12578, 136}
931:59	$0, 0, 0, 0, 0, 0, \frac{26}{619}\sqrt{133}e^{12}, \frac{26}{619}\sqrt{74}e^{13} + \frac{26}{619}\sqrt{51}e^{24},$ $\frac{26}{619}\sqrt{111}e^{14} + \frac{52}{619}\sqrt{41}e^{27} + \frac{26}{619}\sqrt{19}e^{35}$	$(-\frac{26}{619}, \frac{65}{619}, \frac{221}{619}, \frac{130}{619}, -\frac{117}{619}, -\frac{273}{619}, \frac{39}{619}, \frac{195}{619}, \frac{104}{619})$ $+\frac{182}{619}\sqrt{7}e^2 \otimes e_6 + \frac{26}{619}\sqrt{206}e^3 \otimes e_5$	{2457, 3468}
931:59	$0, 0, 0, 0, 0, 0, \frac{27}{271}\sqrt{29}e^{12}, \frac{3}{271}\sqrt{2813}e^{13} + \frac{3}{271}\sqrt{6235}e^{24},$ $\frac{3}{271}\sqrt{5771}e^{14} + \frac{6}{271}\sqrt{899}e^{27} + \frac{12}{271}\sqrt{58}e^{35}$	$(\frac{53}{542}, \frac{32}{271}, \frac{139}{542}, \frac{64}{271}, \frac{21}{271}, -\frac{197}{271}, \frac{117}{542}, \frac{96}{271}, \frac{181}{542})$ $+\frac{18}{271}\sqrt{377}e^4 \otimes e_6$	{1236789, 1569, 268, 3567}
931:59	$0, 0, 0, 0, 0, 0, \frac{24}{569}\sqrt{115}e^{12}, \frac{6}{569}\sqrt{2990}e^{13} + \frac{2}{569}\sqrt{27255}e^{24},$ $\frac{2}{569}\sqrt{16215}e^{14} + \frac{2}{569}\sqrt{21390}e^{27} + \frac{12}{569}\sqrt{2415}e^{35}$	$(\frac{175}{569}, \frac{33}{569}, -\frac{76}{569}, \frac{66}{569}, \frac{317}{569}, -\frac{373}{569}, \frac{208}{569}, \frac{99}{569}, \frac{241}{569})$ $+\frac{6}{569}\sqrt{18055}e^5 \otimes e_6$	{12358, 167, 25789, 369}
931:59	$0, 0, 0, 0, 0, 0, \frac{12}{2237}\sqrt{3199}e^{12}, \frac{6}{2237}\sqrt{150810}e^{13} + \frac{2}{2237}\sqrt{348234}e^{24},$ $\frac{2}{2237}\sqrt{154923}e^{14} + \frac{4}{2237}\sqrt{116535}e^{27} + \frac{6}{2237}\sqrt{42958}e^{35}$	$(-\frac{422}{2237}, \frac{369}{2237}, \frac{1529}{2237}, \frac{738}{2237}, -\frac{1213}{2237}, \frac{371}{2237}, -\frac{53}{2237}, \frac{1107}{2237}, \frac{316}{2237})$ $+\frac{6}{2237}\sqrt{284254}e^3 \otimes e_5$	{12367, 1237, 1568, 158}
931:60	$0, 0, 0, 0, 0, 0, \frac{16}{129}\sqrt{13}e^{12}, \frac{16}{43}\sqrt{5}e^{13} + \frac{64}{129}\sqrt{2}e^{24},$ $\frac{64}{129}\sqrt{2}e^{15} + \frac{16}{129}\sqrt{13}e^{27} + \frac{16}{43}\sqrt{5}e^{34}$	$(-\frac{2}{43}, \frac{26}{129}, \frac{13}{43}, \frac{7}{129}, \frac{52}{129}, -\frac{89}{129}, \frac{20}{129}, \frac{11}{43}, \frac{46}{129})$ $+\frac{16}{129}\sqrt{109}e^3 \otimes e_6$	{12359, 1245689, 234578, 2567}
931:60	$0, 0, 0, 0, 0, 0, \frac{6}{119}\sqrt{170}e^{12}, \frac{4}{119}\sqrt{555}e^{13} + \frac{2}{119}\sqrt{2730}e^{24},$ $\frac{2}{119}\sqrt{705}e^{15} + \frac{6}{119}\sqrt{35}e^{27} + \frac{10}{119}\sqrt{57}e^{34}$	$(-\frac{11}{238}, \frac{3}{119}, \frac{9}{238}, -\frac{4}{119}, \frac{6}{119}, 1, -\frac{5}{238}, -\frac{1}{119}, \frac{1}{238})$ $+\frac{90}{119}\sqrt{3}e^6 \otimes e_8$	{1234679, 12789, 238, 246}
931:60	$0, 0, 0, 0, 0, 0, \frac{7}{162}\sqrt{86}e^{12}, \frac{7}{54}\sqrt{14}e^{13} + \frac{7}{162}\sqrt{102}e^{24},$ $\frac{7}{162}\sqrt{102}e^{15} + \frac{7}{162}\sqrt{55}e^{27} + \frac{28}{81}e^{34}$	$(\frac{35}{162}, -\frac{7}{162}, -\frac{7}{108}, \frac{7}{36}, -\frac{7}{81}, -\frac{119}{324}, \frac{14}{81}, \frac{49}{324}, \frac{7}{54})$ $+\frac{14}{27}e^3 \otimes e_6 + \frac{7}{162}\sqrt{155}e^1 \otimes e_5$	{234578, 2567}
931:60	$0, 0, 0, 0, 0, 0, \frac{4}{593}\sqrt{7535}e^{12}, \frac{12}{593}\sqrt{330}e^{13} + \frac{2}{593}\sqrt{41910}e^{24},$ $\frac{2}{593}\sqrt{41910}e^{15} + \frac{110}{593}\sqrt{6}e^{27} + \frac{2}{593}\sqrt{24090}e^{34}$	$(-\frac{167}{593}, \frac{106}{593}, \frac{159}{593}, -\frac{114}{593}, \frac{212}{593}, \frac{48}{593}, -\frac{61}{593}, -\frac{8}{593}, \frac{45}{593})$ $+\frac{10}{593}\sqrt{2398}e^5 \otimes e_8$	{126789, 12789, 2368, 238}
931:60	$0, 0, 0, 0, 0, 0, \frac{41}{5205}\sqrt{4142}e^{12}, \frac{164}{5205}\sqrt{111}e^{13} + \frac{41}{5205}\sqrt{1094}e^{24},$ $\frac{41}{5205}\sqrt{2698}e^{15} + \frac{41}{5205}\sqrt{3214}e^{27} + \frac{164}{5205}\sqrt{5}e^{34}$	$(\frac{1189}{5205}, -\frac{82}{1735}, -\frac{123}{1735}, \frac{1066}{5205}, -\frac{164}{1735}, -\frac{1927}{5205}, \frac{943}{5205}, \frac{164}{1041}, \frac{697}{5205})$ $+\frac{164}{5205}\sqrt{290}e^1 \otimes e_5 + \frac{82}{5205}\sqrt{1203}e^2 \otimes e_6$	{3568, 456}
931:60	$0, 0, 0, 0, 0, 0, \frac{58}{2909}\sqrt{503}e^{12}, \frac{58}{2909}\sqrt{165}e^{13} + \frac{29}{2909}\sqrt{2690}e^{24},$ $\frac{58}{2909}\sqrt{781}e^{15} + \frac{174}{2909}\sqrt{26}e^{27} + \frac{29}{2909}\sqrt{1266}e^{34}$	$(-\frac{667}{2909}, \frac{348}{2909}, \frac{522}{2909}, -\frac{493}{2909}, \frac{696}{2909}, \frac{870}{2909}, -\frac{319}{2909}, -\frac{145}{2909}, \frac{29}{2909})$ $+\frac{29}{2909}\sqrt{1302}e^6 \otimes e_9 + \frac{29}{2909}\sqrt{4078}e^5 \otimes e_8$	{12789, 2368}
931:60	$0, 0, 0, 0, 0, 0, \frac{3}{25}\sqrt{42}e^{12}, \frac{1}{25}\sqrt{42}e^{13} + \frac{3}{25}\sqrt{14}e^{24},$ $\frac{2}{25}\sqrt{42}e^{15} + \frac{3}{25}\sqrt{42}e^{27} + \frac{1}{25}\sqrt{42}e^{34}$	$(0, \frac{4}{25}, \frac{6}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{17}{25}, \frac{25}{25}, \frac{6}{25}, \frac{8}{25})$ $+\frac{21}{25}\sqrt{2}e^2 \otimes e_6$	{13456789, 15679, 356, 4568}
931:60	$0, 0, 0, 0, 0, 0, \frac{47}{4125}\sqrt{2018}e^{12}, \frac{94}{4125}\sqrt{354}e^{13} + \frac{47}{4125}\sqrt{1874}e^{24},$ $\frac{47}{4125}\sqrt{742}e^{15} + \frac{94}{4125}\sqrt{478}e^{27} + \frac{94}{4125}\sqrt{301}e^{34}$	$(\frac{1081}{4125}, -\frac{188}{1375}, -\frac{282}{1375}, \frac{799}{4125}, -\frac{376}{1375}, \frac{2162}{4125}, \frac{47}{375}, \frac{47}{825}, -\frac{47}{4125})$ $+\frac{47}{4125}\sqrt{3926}e^1 \otimes e_5 + \frac{94}{4125}\sqrt{849}e^6 \otimes e_9$	{2345678, 2567}
931:60	$0, 0, 0, 0, 0, 0, \frac{6}{119}\sqrt{35}e^{12}, \frac{10}{119}\sqrt{57}e^{13} + \frac{2}{119}\sqrt{2730}e^{24},$ $\frac{2}{119}\sqrt{705}e^{15} + \frac{6}{119}\sqrt{170}e^{27} + \frac{4}{119}\sqrt{555}e^{34}$	$(\frac{5}{17}, \frac{3}{119}, \frac{9}{238}, \frac{73}{238}, \frac{6}{119}, -\frac{167}{238}, \frac{38}{119}, \frac{79}{238}, \frac{41}{119})$ $+\frac{90}{119}\sqrt{3}e^4 \otimes e_6$	{1236789, 12479, 234, 268}
931:60	$0, 0, 0, 0, 0, 0, \frac{3}{47}\sqrt{370}e^{12}, \frac{1}{47}\sqrt{555}e^{13} + \frac{94}{47}\sqrt{4773}e^{24},$ $\frac{6}{47}\sqrt{74}e^{15} + \frac{3}{47}\sqrt{370}e^{27} + \frac{1}{47}\sqrt{555}e^{34}$	$(-\frac{17}{188}, \frac{23}{94}, \frac{69}{188}, \frac{3}{94}, \frac{23}{47}, -\frac{65}{94}, \frac{29}{188}, \frac{13}{47}, \frac{75}{188})$ $+\frac{3}{94}\sqrt{1961}e^5 \otimes e_6$	{134689, 169, 367, 4678}
931:60	$0, 0, 0, 0, 0, 0, \frac{13}{953}\sqrt{671}e^{12}, \frac{13}{953}\sqrt{93}e^{13} + \frac{26}{953}\sqrt{277}e^{24},$ $\frac{13}{953}\sqrt{917}e^{15} + \frac{78}{953}\sqrt{15}e^{27} + \frac{130}{953}\sqrt{3}e^{34}$	$(-\frac{117}{953}, \frac{104}{953}, \frac{156}{953}, -\frac{65}{953}, \frac{208}{953}, -\frac{234}{953}, -\frac{13}{953}, \frac{39}{953}, \frac{91}{953})$ $+\frac{13}{953}\sqrt{573}e^4 \otimes e_6 + \frac{26}{953}\sqrt{307}e^5 \otimes e_8$	{126789, 2368}
931:60	$0, 0, 0, 0, 0, 0, \frac{26}{545}\sqrt{71}e^{12}, \frac{39}{545}\sqrt{15}e^{13} + \frac{26}{545}\sqrt{141}e^{24},$ $\frac{13}{545}\sqrt{483}e^{15} + \frac{26}{545}\sqrt{33}e^{27} + \frac{13}{545}\sqrt{321}e^{34}$	$(-\frac{247}{1090}, \frac{91}{545}, \frac{273}{1090}, -\frac{78}{545}, \frac{182}{545}, -\frac{78}{545}, -\frac{13}{218}, \frac{13}{545}, \frac{117}{1090})$ $+\frac{117}{545}\sqrt{3}e^2 \otimes e_6 + \frac{26}{545}\sqrt{190}e^5 \otimes e_8$	{12789, 238}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:60	$0, 0, 0, 0, 0, 0, \frac{1}{162}\sqrt{19430}e^{12}, \frac{1}{54}\sqrt{2030}e^{13} + \frac{1}{162}\sqrt{14790}e^{24},$ $\frac{1}{162}\sqrt{14790}e^{15} + \frac{1}{162}\sqrt{11455}e^{27} + \frac{2}{81}\sqrt{145}e^{34}$	$(\frac{83}{162}, -\frac{31}{162}, -\frac{31}{108}, \frac{5}{12}, -\frac{31}{81}, \frac{49}{324}, \frac{26}{81}, \frac{73}{324}, \frac{7}{54})$ $+ \frac{5}{162}\sqrt{1595}e^1 \otimes e_5$	{2345678, 234578, 2567, 257}
931:60	$0, 0, 0, 0, 0, 0, \frac{6}{2009}\sqrt{48910}e^{12}, \frac{2}{2009}\sqrt{516570}e^{13} + \frac{2}{2009}\sqrt{187935}e^{24},$ $\frac{8}{2009}\sqrt{23115}e^{15} + \frac{30}{2009}\sqrt{469}e^{27} + \frac{4}{2009}\sqrt{38190}e^{34}$	$(\frac{689}{2009}, -\frac{12}{2009}, -\frac{18}{2009}, \frac{683}{2009}, -\frac{24}{2009}, -\frac{1321}{2009}, \frac{677}{2009}, \frac{671}{2009}, \frac{95}{287})$ $+ \frac{30}{2009}\sqrt{7437}e^1 \otimes e_6$	{13479, 1789, 368, 46}
931:60	$0, 0, 0, 0, 0, 0, \frac{108}{709}\sqrt{11}e^{12}, \frac{9}{709}\sqrt{906}e^{13} + \frac{54}{709}\sqrt{58}e^{24},$ $\frac{54}{709}\sqrt{58}e^{15} + \frac{9}{709}\sqrt{930}e^{27} + \frac{36}{709}\sqrt{66}e^{34}$	$(-\frac{180}{709}, \frac{126}{709}, \frac{189}{709}, -\frac{117}{709}, \frac{252}{709}, -\frac{54}{709}, -\frac{54}{709}, \frac{9}{709}, \frac{72}{709})$ $+ \frac{9}{709}\sqrt{3270}e^5 \otimes e_8 + \frac{9}{709}\sqrt{654}e^3 \otimes e_6$	{126789, 238}
931:60	$0, 0, 0, 0, 0, 0, \frac{253}{1101}\sqrt{2}e^{12}, \frac{46}{1101}\sqrt{201}e^{13} + \frac{23}{1101}\sqrt{22}e^{24},$ $\frac{46}{1101}\sqrt{73}e^{15} + \frac{46}{1101}\sqrt{55}e^{27} + \frac{23}{1101}\sqrt{182}e^{34}$	$(\frac{253}{1101}, -\frac{46}{367}, -\frac{69}{367}, \frac{184}{1101}, -\frac{92}{367}, \frac{575}{1101}, \frac{115}{1101}, \frac{46}{1101}, -\frac{23}{1101})$ $+ \frac{23}{1101}\sqrt{942}e^6 \otimes e_8 + \frac{46}{1101}\sqrt{263}e^1 \otimes e_5$	{23578, 24567}
931:60	$0, 0, 0, 0, 0, 0, \frac{25}{853}\sqrt{86}e^{12}, \frac{150}{853}\sqrt{2}e^{13} + \frac{25}{853}\sqrt{138}e^{24},$ $\frac{60}{853}\sqrt{30}e^{15} + \frac{5}{853}\sqrt{1590}e^{27} + \frac{5}{853}\sqrt{2490}e^{34}$	$(-\frac{85}{853}, \frac{80}{853}, \frac{120}{853}, -\frac{45}{853}, \frac{160}{853}, -\frac{210}{853}, -\frac{5}{853}, \frac{35}{853}, \frac{75}{853})$ $+ \frac{15}{853}\sqrt{290}e^1 \otimes e_6 + \frac{5}{853}\sqrt{5410}e^5 \otimes e_8$	{12789, 2368}
931:60	$0, 0, 0, 0, 0, 0, \frac{30}{2009}\sqrt{469}e^{12}, \frac{4}{2009}\sqrt{38190}e^{13} + \frac{2}{2009}\sqrt{187935}e^{24},$ $\frac{8}{2009}\sqrt{23115}e^{15} + \frac{6}{2009}\sqrt{48910}e^{27} + \frac{2}{2009}\sqrt{516570}e^{34}$	$(\frac{23}{2009}, -\frac{12}{2009}, -\frac{18}{2009}, \frac{17}{2009}, -\frac{24}{2009}, 1, \frac{11}{2009}, \frac{5}{2009}, -\frac{1}{2009})$ $+ \frac{30}{2009}\sqrt{7437}e^6 \otimes e_9$	{13789, 1479, 346, 68}
931:61	$0, 0, 0, 0, 0, 0, \frac{1}{1303}\sqrt{351870}e^{12}, \frac{3}{1303}\sqrt{74370}e^{13} + \frac{2}{1303}\sqrt{137085}e^{24},$ $\frac{2}{1303}\sqrt{60495}e^{17} + \frac{15}{1303}\sqrt{2294}e^{34} + \frac{2}{1303}\sqrt{183705}e^{56}$	$(\frac{78}{1303}, -\frac{31}{1303}, \frac{8}{1303}, \frac{117}{1303}, \frac{641}{1303}, -\frac{516}{1303}, \frac{47}{1303}, \frac{86}{1303}, \frac{125}{1303})$ $+ \frac{1}{1303}\sqrt{1284270}e^5 \otimes e_8$	{1234579, 126789, 1356, 148}
931:61	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{1670}e^{12}, \frac{4}{209}\sqrt{167}e^{13} + \frac{4}{209}\sqrt{334}e^{24},$ $\frac{4}{209}\sqrt{334}e^{17} + \frac{4}{209}\sqrt{167}e^{34} + \frac{2}{209}\sqrt{1670}e^{56}$	$(\frac{20}{209}, \frac{24}{209}, \frac{34}{209}, \frac{30}{209}, \frac{199}{209}, -\frac{135}{209}, \frac{4}{209}, \frac{54}{209}, \frac{64}{209})$ $+ \frac{334}{209}e^5 \otimes e_6$	{235789, 236789, 24579, 24679}
931:62	$0, 0, 0, 0, 0, 0, \frac{1}{280}\sqrt{11373}e^{12}, \frac{1}{560}\sqrt{370626}e^{13} + \frac{1}{140}\sqrt{7359}e^{24},$ $\frac{1}{560}\sqrt{99681}e^{17} + \frac{1}{560}\sqrt{99681}e^{35} + \frac{9}{280}\sqrt{446}e^{46}$	$(-\frac{163}{1120}, \frac{209}{560}, \frac{143}{224}, \frac{67}{560}, -\frac{89}{160}, -\frac{3}{80}, \frac{51}{224}, \frac{69}{140}, \frac{23}{280})$ $+ \frac{1}{560}\sqrt{632874}e^3 \otimes e_5$	{1346, 158, 378, 4567}
931:62	$0, 0, 0, 0, 0, 0, \frac{2}{145}\sqrt{434}e^{12}, \frac{1}{145}\sqrt{42}e^{13} + \frac{1}{145}\sqrt{6314}e^{24},$ $\frac{7}{145}\sqrt{2}e^{17} + \frac{1}{29}\sqrt{154}e^{35} + \frac{7}{145}\sqrt{62}e^{46}$	$(\frac{28}{145}, -\frac{7}{29}, -\frac{28}{145}, \frac{7}{29}, \frac{49}{145}, -\frac{14}{145}, -\frac{7}{145}, 0, \frac{21}{145})$ $+ \frac{1}{145}\sqrt{5558}e^4 \otimes e_6 + \frac{4}{145}\sqrt{469}e^5 \otimes e_8$	{123457, 12678}
931:62	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{14}e^{12}, \frac{1}{28}\sqrt{210}e^{13} + \frac{1}{42}\sqrt{42}e^{24},$ $\frac{1}{12}\sqrt{15}e^{17} + \frac{1}{12}\sqrt{15}e^{35} + \frac{1}{14}\sqrt{35}e^{46}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{28}\sqrt{154}e^3 \otimes e_5 + \frac{1}{42}\sqrt{483}e^6 \otimes e_8$	{1346, 158, 378, 4567}
931:62	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{14}e^{12}, \frac{1}{28}\sqrt{210}e^{13} + \frac{1}{42}\sqrt{42}e^{24},$ $\frac{1}{12}\sqrt{15}e^{17} + \frac{1}{12}\sqrt{15}e^{35} + \frac{1}{14}\sqrt{35}e^{46}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{28}\sqrt{154}e^3 \otimes e_5 - \frac{1}{42}\sqrt{483}e^6 \otimes e_8$	{1346, 158, 378, 4567}
931:62	$0, 0, 0, 0, 0, 0, \frac{4}{579}\sqrt{2073}e^{12}, \frac{1}{579}\sqrt{139582}e^{13} + \frac{1}{579}\sqrt{374522}e^{24},$ $\frac{1}{579}\sqrt{106414}e^{17} + \frac{1}{579}\sqrt{106414}e^{35} + \frac{1}{579}\sqrt{150638}e^{46}$	$(\frac{146}{579}, -\frac{149}{579}, \frac{122}{579}, \frac{139}{193}, \frac{7}{193}, -\frac{274}{579}, -\frac{1}{193}, \frac{268}{579}, \frac{143}{579})$ $+ \frac{1}{579}\sqrt{664742}e^4 \otimes e_6$	{1235678, 1247, 2345, 268}
931:62	$0, 0, 0, 0, 0, 0, \frac{62}{1309}\sqrt{47}e^{12}, \frac{31}{1309}\sqrt{438}e^{13} + \frac{31}{1309}\sqrt{402}e^{24},$ $\frac{186}{1309}e^{17} + \frac{186}{1309}e^{35} + \frac{93}{1309}\sqrt{2}e^{46}$	$(\frac{31}{1309}, \frac{31}{1309}, \frac{31}{77}, \frac{31}{77}, -\frac{62}{187}, -\frac{62}{187}, \frac{62}{1309}, \frac{558}{1309}, \frac{93}{1309})$ $+ \frac{31}{1309}\sqrt{1162}e^4 \otimes e_6 + \frac{62}{1309}\sqrt{295}e^3 \otimes e_5$	{136, 1458, 3478, 567}
931:62	$0, 0, 0, 0, 0, 0, \frac{2}{2329}\sqrt{280163}e^{12}, \frac{2}{2329}\sqrt{315769}e^{13} + \frac{2}{2329}\sqrt{847985}e^{24},$ $\frac{4}{2329}\sqrt{32795}e^{17} + \frac{4}{2329}\sqrt{199581}e^{35} + \frac{4}{2329}\sqrt{99322}e^{46}$	$(\frac{447}{2329}, -\frac{261}{2329}, -\frac{844}{2329}, -\frac{8}{137}, \frac{1477}{2329}, \frac{769}{2329}, \frac{186}{2329}, -\frac{397}{2329}, \frac{633}{2329})$ $+ \frac{16}{2329}\sqrt{29047}e^5 \otimes e_8$	{1356, 148, 2389, 24569}
931:62	$0, 0, 0, 0, 0, 0, \frac{62}{1309}\sqrt{47}e^{12}, \frac{31}{1309}\sqrt{438}e^{13} + \frac{31}{1309}\sqrt{402}e^{24},$ $\frac{186}{1309}e^{17} + \frac{186}{1309}e^{35} + \frac{93}{1309}\sqrt{2}e^{46}$	$(\frac{31}{1309}, \frac{31}{1309}, \frac{31}{77}, \frac{31}{77}, -\frac{62}{187}, -\frac{62}{187}, \frac{62}{1309}, \frac{558}{1309}, \frac{93}{1309})$ $- \frac{31}{1309}\sqrt{1162}e^4 \otimes e_6 + \frac{62}{1309}\sqrt{295}e^3 \otimes e_5$	{136, 1458, 3478, 567}
931:63	$0, 0, 0, 0, 0, 0, \frac{3}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{10}e^{13} + \frac{3}{11}\sqrt{2}e^{45},$ $\frac{2}{11}\sqrt{5}e^{14} + \frac{1}{11}\sqrt{22}e^{27} + \frac{1}{11}\sqrt{2}e^{36}$	$(-\frac{1}{22}, \frac{1}{11}, -\frac{1}{22}, \frac{2}{11}, -\frac{3}{11}, \frac{2}{11}, \frac{1}{22}, -\frac{1}{11}, \frac{3}{22})$ $+ \frac{1}{11}\sqrt{38}e^2 \otimes e_8$	{1234569, 14789, 24567, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:63	$0, 0, 0, 0, 0, 0, \frac{12}{535}\sqrt{305}e^{12}, \frac{12}{107}\sqrt{26}e^{13} + \frac{12}{535}\sqrt{1045}e^{45},$ $\frac{12}{535}\sqrt{190}e^{14} + \frac{72}{535}\sqrt{15}e^{27} + \frac{12}{535}\sqrt{865}e^{36}$	$(\frac{122}{535}, -\frac{78}{535}, \frac{48}{535}, -\frac{156}{535}, \frac{326}{535}, -\frac{82}{535}, \frac{44}{535}, \frac{34}{107}, -\frac{34}{535})$ $+ \frac{24}{535}\sqrt{555}e^5 \otimes e_9$	{1269, 1679, 2578, 58}
931:63	$0, 0, 0, 0, 0, 0, \frac{8}{311}\sqrt{93}e^{12}, \frac{16}{311}\sqrt{22}e^{13} + \frac{8}{311}\sqrt{93}e^{45},$ $\frac{16}{311}\sqrt{29}e^{14} + \frac{8}{311}\sqrt{130}e^{27} + \frac{8}{311}\sqrt{23}e^{36}$	$(-\frac{32}{311}, \frac{28}{311}, \frac{28}{311}, \frac{56}{311}, -\frac{60}{311}, -\frac{4}{311}, -\frac{4}{311}, -\frac{4}{311}, \frac{24}{311})$ $+ \frac{16}{311}\sqrt{15}e^3 \otimes e_6 + \frac{8}{311}\sqrt{218}e^2 \otimes e_8$	{24567, 348}
931:63	$0, 0, 0, 0, 0, 0, \frac{20}{101}\sqrt{5}e^{12}, \frac{10}{101}\sqrt{110}e^{13} + \frac{20}{101}\sqrt{5}e^{45},$ $\frac{5}{101}\sqrt{35}e^{14} + \frac{5}{101}\sqrt{105}e^{27} + \frac{5}{101}\sqrt{115}e^{36}$	$(-\frac{16}{101}, \frac{14}{101}, \frac{137}{202}, \frac{28}{101}, \frac{49}{202}, -\frac{113}{202}, -\frac{2}{101}, \frac{105}{202}, \frac{12}{101})$ $+ \frac{65}{101}\sqrt{5}e^3 \otimes e_6$	{12357, 12678, 135, 168}
931:63	$0, 0, 0, 0, 0, 0, \frac{20}{781}\sqrt{366}e^{12}, \frac{8}{781}\sqrt{305}e^{13} + \frac{20}{781}\sqrt{366}e^{45},$ $\frac{32}{781}\sqrt{671}e^{14} + \frac{8}{781}\sqrt{1830}e^{27} + \frac{4}{781}\sqrt{6710}e^{36}$	$(-\frac{150}{781}, \frac{252}{781}, \frac{182}{781}, \frac{504}{781}, -\frac{472}{781}, \frac{172}{781}, \frac{102}{781}, \frac{32}{781}, \frac{354}{781})$ $+ \frac{16}{781}\sqrt{5063}e^4 \otimes e_5$	{12579, 159, 235, 357}
931:63	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{66}e^{12}, \frac{1}{26}\sqrt{34}e^{13} + \frac{1}{26}\sqrt{66}e^{45},$ $\frac{1}{13}\sqrt{22}e^{14} + \frac{1}{26}\sqrt{78}e^{27} + \frac{1}{26}\sqrt{2}e^{36}$	$(\frac{3}{52}, 0, -\frac{7}{52}, 0, -\frac{1}{13}, \frac{5}{26}, \frac{3}{52}, -\frac{1}{13}, \frac{3}{52})$ $+ \frac{1}{13}\sqrt{10}e^4 \otimes e_5 + \frac{3}{26}\sqrt{14}e^2 \otimes e_8$	{1234569, 24567}
931:63	$0, 0, 0, 0, 0, 0, \frac{20}{89}e^{12}, \frac{20}{89}e^{13} + \frac{10}{89}\sqrt{22}e^{45},$ $\frac{20}{89}e^{14} + \frac{10}{89}\sqrt{15}e^{27} + \frac{10}{89}\sqrt{17}e^{36}$	$(\frac{8}{89}, -\frac{7}{89}, \frac{22}{89}, -\frac{14}{89}, \frac{44}{89}, -\frac{28}{89}, \frac{1}{89}, \frac{30}{89}, -\frac{6}{89})$ $+ \frac{10}{89}\sqrt{23}e^3 \otimes e_6 + \frac{30}{89}\sqrt{6}e^5 \otimes e_9$	{1269, 1679}
931:63	$0, 0, 0, 0, 0, 0, \frac{4}{2579}\sqrt{785}e^{12}, \frac{4}{2579}\sqrt{166}e^{13} + \frac{4}{2579}\sqrt{1045}e^{45},$ $\frac{76}{2579}\sqrt{2}e^{14} + \frac{8}{2579}\sqrt{259}e^{27} + \frac{4}{2579}\sqrt{193}e^{36}$	$(\frac{50}{2579}, -\frac{22}{2579}, -\frac{80}{2579}, -\frac{44}{2579}, \frac{14}{2579}, \frac{86}{2579}, \frac{28}{2579}, -\frac{30}{2579}, \frac{6}{2579})$ $+ \frac{16}{2579}\sqrt{95}e^2 \otimes e_8 + \frac{8}{2579}\sqrt{195}e^5 \otimes e_9$	{146789, 2457}
931:63	$0, 0, 0, 0, 0, 0, \frac{2}{33}e^{12}, \frac{1}{33}\sqrt{26}e^{13} + \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{33}\sqrt{10}e^{14} + \frac{1}{33}\sqrt{42}e^{27} + \frac{2}{33}\sqrt{35}e^{36}$	$(\frac{2}{11}, -\frac{1}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{1}{11}, 0, 0)$ $+ \frac{1}{33}\sqrt{170}e^6 \otimes e_8 + \frac{2}{33}\sqrt{46}e^5 \otimes e_9$	{123489, 134789, 234567, 3456}
931:63	$0, 0, 0, 0, 0, 0, \frac{2}{33}e^{12}, \frac{1}{33}\sqrt{26}e^{13} + \frac{1}{33}\sqrt{154}e^{45},$ $\frac{2}{33}\sqrt{10}e^{14} + \frac{1}{33}\sqrt{42}e^{27} + \frac{2}{33}\sqrt{35}e^{36}$	$(\frac{2}{11}, -\frac{1}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{1}{11}, 0, 0)$ $- \frac{1}{33}\sqrt{170}e^6 \otimes e_8 + \frac{2}{33}\sqrt{46}e^5 \otimes e_9$	{123489, 134789, 234567, 3456}
931:63	$0, 0, 0, 0, 0, 0, \frac{26}{539}\sqrt{13}e^{12}, \frac{13}{539}\sqrt{202}e^{13} + \frac{13}{539}\sqrt{470}e^{45},$ $\frac{26}{539}\sqrt{22}e^{14} + \frac{13}{539}\sqrt{42}e^{27} + \frac{26}{49}e^{36}$	$(\frac{26}{539}, \frac{65}{539}, -\frac{104}{539}, \frac{130}{539}, -\frac{208}{539}, \frac{260}{539}, \frac{13}{77}, -\frac{78}{539}, \frac{156}{539})$ $- \frac{13}{539}\sqrt{1254}e^6 \otimes e_8 + \frac{26}{539}\sqrt{158}e^4 \otimes e_5$	{1258, 1578, 235789, 3589}
931:63	$0, 0, 0, 0, 0, 0, \frac{26}{539}\sqrt{13}e^{12}, \frac{13}{539}\sqrt{202}e^{13} + \frac{13}{539}\sqrt{470}e^{45},$ $\frac{26}{539}\sqrt{22}e^{14} + \frac{13}{539}\sqrt{42}e^{27} + \frac{26}{49}e^{36}$	$(\frac{26}{539}, \frac{65}{539}, -\frac{104}{539}, \frac{130}{539}, -\frac{208}{539}, \frac{260}{539}, \frac{13}{77}, -\frac{78}{539}, \frac{156}{539})$ $+ \frac{13}{539}\sqrt{1254}e^6 \otimes e_8 + \frac{26}{539}\sqrt{158}e^4 \otimes e_5$	{1258, 1578, 235789, 3589}
931:63	$0, 0, 0, 0, 0, 0, \frac{44}{353}\sqrt{11}e^{12}, \frac{88}{353}\sqrt{5}e^{13} + \frac{44}{353}\sqrt{11}e^{45},$ $\frac{22}{353}\sqrt{82}e^{14} + \frac{22}{353}\sqrt{3}e^{27} + \frac{22}{353}\sqrt{43}e^{36}$	$(-\frac{88}{353}, \frac{77}{353}, \frac{154}{353}, \frac{154}{353}, -\frac{88}{353}, -\frac{88}{353}, -\frac{11}{353}, \frac{66}{353}, \frac{66}{353})$ $+ \frac{198}{353}\sqrt{2}e^4 \otimes e_5 + \frac{22}{353}\sqrt{161}e^3 \otimes e_6$	{256, 567}
931:64	$0, 0, 0, 0, 0, 0, \frac{46}{5477}\sqrt{565}e^{12}, \frac{23}{5477}\sqrt{1006}e^{13} + \frac{46}{5477}\sqrt{930}e^{45},$ $\frac{23}{5477}\sqrt{482}e^{16} + \frac{46}{5477}\sqrt{1054}e^{27} + \frac{46}{5477}\sqrt{303}e^{34}$	$(-\frac{805}{5477}, \frac{414}{5477}, \frac{690}{5477}, -\frac{667}{5477}, \frac{552}{5477}, \frac{828}{5477}, -\frac{391}{5477}, -\frac{115}{5477}, \frac{23}{5477})$ $+ \frac{115}{5477}\sqrt{146}e^5 \otimes e_9 + \frac{23}{5477}\sqrt{6130}e^2 \otimes e_8$	{24567, 3568}
931:64	$0, 0, 0, 0, 0, 0, \frac{7}{67}\sqrt{22}e^{12}, \frac{7}{67}\sqrt{31}e^{13} + \frac{7}{67}\sqrt{47}e^{45},$ $\frac{21}{67}\sqrt{6}e^{16} + \frac{7}{67}e^{27} + \frac{7}{67}\sqrt{38}e^{34}$	$(-\frac{22}{67}, \frac{20}{67}, \frac{13}{67}, \frac{5}{67}, -\frac{14}{67}, \frac{40}{67}, -\frac{2}{67}, -\frac{9}{67}, \frac{18}{67})$ $+ \frac{7}{67}\sqrt{115}e^6 \otimes e_8$	{12367, 136, 269, 679}
931:64	$0, 0, 0, 0, 0, 0, \frac{34}{549}\sqrt{158}e^{12}, \frac{34}{549}\sqrt{174}e^{13} + \frac{68}{549}\sqrt{6}e^{45},$ $\frac{34}{183}\sqrt{11}e^{16} + \frac{34}{549}\sqrt{67}e^{27} + \frac{68}{549}\sqrt{2}e^{34}$	$(\frac{316}{549}, -\frac{131}{549}, -\frac{8}{61}, \frac{14}{61}, \frac{118}{549}, -\frac{262}{549}, \frac{185}{549}, \frac{4}{9}, \frac{6}{61})$ $+ \frac{34}{549}\sqrt{455}e^1 \otimes e_6$	{23678, 2467, 368, 46}
931:64	$0, 0, 0, 0, 0, 0, \frac{39}{8017}\sqrt{554}e^{12}, \frac{26}{8017}\sqrt{1234}e^{13} + \frac{39}{8017}\sqrt{326}e^{45},$ $\frac{26}{8017}\sqrt{965}e^{16} + \frac{13}{8017}\sqrt{5866}e^{27} + \frac{13}{8017}\sqrt{2834}e^{34}$	$(\frac{221}{8017}, \frac{26}{8017}, -\frac{364}{8017}, \frac{637}{8017}, -\frac{780}{8017}, \frac{52}{8017}, \frac{247}{8017}, -\frac{143}{8017}, \frac{273}{8017})$ $+ \frac{13}{8017}\sqrt{9530}e^2 \otimes e_8 + \frac{39}{8017}\sqrt{570}e^1 \otimes e_6$	{24567, 3568}
931:64	$0, 0, 0, 0, 0, 0, \frac{17}{937}\sqrt{573}e^{12}, \frac{17}{937}\sqrt{481}e^{13} + \frac{34}{937}\sqrt{138}e^{45},$ $\frac{17}{937}\sqrt{431}e^{16} + \frac{34}{937}\sqrt{214}e^{27} + \frac{68}{937}\sqrt{23}e^{34}$	$(-\frac{187}{937}, \frac{170}{937}, \frac{68}{937}, \frac{85}{937}, -\frac{204}{937}, \frac{340}{937}, -\frac{17}{937}, -\frac{119}{937}, \frac{153}{937})$ $+ \frac{17}{937}\sqrt{105}e^4 \otimes e_5 + \frac{68}{937}\sqrt{95}e^2 \otimes e_8$	{156789, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:64	$0, 0, 0, 0, 0, 0, \frac{2}{569}\sqrt{3383}e^{12}, \frac{22}{569}\sqrt{199}e^{13} + \frac{6}{569}\sqrt{4577}e^{45},$ $\frac{4}{569}\sqrt{8159}e^{16} + \frac{8}{569}\sqrt{1393}e^{27} + \frac{2}{569}\sqrt{13731}e^{34}$	$(\frac{34}{569}, -\frac{35}{569}, \frac{146}{569}, -\frac{182}{569}, \frac{362}{569}, -\frac{70}{569}, -\frac{1}{569}, \frac{180}{569}, -\frac{36}{569})$ $+ \frac{10}{569}\sqrt{3781}e^5 \otimes e_9$	{23457, 2578, 345, 58}
931:64	$0, 0, 0, 0, 0, 0, \frac{11}{193}\sqrt{77}e^{12}, \frac{11}{579}\sqrt{489}e^{13} + \frac{22}{579}\sqrt{66}e^{45},$ $\frac{11}{579}\sqrt{519}e^{16} + \frac{22}{193}\sqrt{2}e^{27} + \frac{44}{579}\sqrt{42}e^{34}$	$(\frac{77}{193}, -\frac{22}{193}, -\frac{44}{193}, \frac{77}{193}, -\frac{44}{193}, -\frac{44}{193}, \frac{55}{193}, \frac{33}{193}, \frac{33}{193})$ $+ \frac{44}{579}\sqrt{105}e^1 \otimes e_6 + \frac{55}{579}\sqrt{57}e^4 \otimes e_5$	{2567, 56}
931:64	$0, 0, 0, 0, 0, 0, \frac{24}{563}\sqrt{110}e^{12}, \frac{4}{563}\sqrt{3454}e^{13} + \frac{24}{563}\sqrt{110}e^{45},$ $\frac{8}{563}\sqrt{737}e^{16} + \frac{4}{563}\sqrt{6094}e^{27} + \frac{8}{563}\sqrt{737}e^{34}$	$(-\frac{125}{563}, \frac{106}{563}, \frac{55}{563}, \frac{32}{563}, -\frac{102}{563}, \frac{212}{563}, -\frac{19}{563}, -\frac{70}{563}, \frac{87}{563})$ $+ \frac{4}{563}\sqrt{10670}e^2 \otimes e_8$	{1234569, 156789, 24567, 3568}
931:64	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{287}e^{12}, \frac{1}{33}\sqrt{205}e^{13} + \frac{2}{33}\sqrt{41}e^{45},$ $\frac{1}{33}\sqrt{205}e^{16} + \frac{2}{33}\sqrt{41}e^{27} + \frac{2}{33}\sqrt{287}e^{34}$	$(\frac{7}{33}, \frac{4}{33}, -\frac{2}{11}, \frac{7}{11}, -\frac{20}{33}, \frac{8}{33}, \frac{1}{3}, \frac{1}{33}, \frac{5}{11})$ $+ \frac{1}{33}\sqrt{2255}e^4 \otimes e_5$	{125, 157, 23579, 359}
931:64	$0, 0, 0, 0, 0, 0, \frac{26}{277}\sqrt{13}e^{12}, \frac{26}{277}\sqrt{19}e^{13} + \frac{13}{277}\sqrt{122}e^{45},$ $\frac{156}{277}e^{16} + \frac{13}{277}\sqrt{14}e^{27} + \frac{13}{277}\sqrt{38}e^{34}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{13}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $+ \frac{26}{277}\sqrt{85}e^6 \otimes e_8 + \frac{65}{277}\sqrt{6}e^4 \otimes e_5$	{125789, 1589, 2358, 3578}
931:64	$0, 0, 0, 0, 0, 0, \frac{26}{277}\sqrt{13}e^{12}, \frac{26}{277}\sqrt{19}e^{13} + \frac{13}{277}\sqrt{122}e^{45},$ $\frac{156}{277}e^{16} + \frac{13}{277}\sqrt{14}e^{27} + \frac{13}{277}\sqrt{38}e^{34}$	$(-\frac{52}{277}, \frac{65}{277}, \frac{13}{277}, \frac{65}{277}, -\frac{104}{277}, \frac{130}{277}, \frac{13}{277}, -\frac{39}{277}, \frac{78}{277})$ $- \frac{26}{277}\sqrt{85}e^6 \otimes e_8 + \frac{65}{277}\sqrt{6}e^4 \otimes e_5$	{125789, 1589, 2358, 3578}
931:65	$0, 0, 0, 0, 0, 0, \frac{2}{783}\sqrt{49305}e^{12}, \frac{2}{783}\sqrt{6555}e^{13} + \frac{2}{783}\sqrt{85215}e^{45},$ $\frac{2}{783}\sqrt{285}e^{17} + \frac{2}{783}\sqrt{68685}e^{23} + \frac{2}{783}\sqrt{39045}e^{46}$	$(-\frac{67}{783}, \frac{41}{87}, -\frac{134}{783}, -\frac{32}{783}, -\frac{169}{783}, \frac{89}{261}, \frac{302}{783}, -\frac{67}{261}, \frac{235}{783})$ $+ \frac{2}{783}\sqrt{186105}e^2 \otimes e_8$	{1478, 15678, 245679, 279}
931:65	$0, 0, 0, 0, 0, 0, \frac{1}{273}\sqrt{7205}e^{12}, \frac{1}{546}\sqrt{129035}e^{13} + \frac{1}{546}\sqrt{116590}e^{45},$ $\frac{4}{273}\sqrt{1310}e^{17} + \frac{5}{546}\sqrt{3930}e^{23} + \frac{1}{273}\sqrt{84495}e^{46}$	$(\frac{11}{182}, \frac{95}{364}, \frac{11}{91}, \frac{29}{42}, -\frac{139}{273}, -\frac{337}{1092}, \frac{9}{28}, \frac{33}{182}, \frac{139}{364})$ $+ \frac{1}{546}\sqrt{598015}e^4 \otimes e_5$	{2467, 257, 49, 569}
931:65	$0, 0, 0, 0, 0, 0, \frac{26}{2343}\sqrt{195}e^{12}, \frac{13}{2343}\sqrt{4602}e^{13} + \frac{13}{2343}\sqrt{6798}e^{45},$ $\frac{13}{2343}\sqrt{3966}e^{17} + \frac{26}{2343}\sqrt{894}e^{23} + \frac{221}{2343}\sqrt{6}e^{46}$	$(\frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{65}{781}, \frac{130}{781}, \frac{104}{781}, \frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{26}{2343}\sqrt{1230}e^4 \otimes e_6 + \frac{52}{2343}\sqrt{489}e^5 \otimes e_9$	{1457, 568}
931:65	$0, 0, 0, 0, 0, 0, \frac{28}{3035}\sqrt{377}e^{12}, \frac{56}{3035}\sqrt{143}e^{13} + \frac{28}{3035}\sqrt{1330}e^{45},$ $\frac{56}{3035}\sqrt{142}e^{17} + \frac{28}{3035}\sqrt{1015}e^{23} + \frac{28}{3035}\sqrt{383}e^{46}$	$(-\frac{14}{607}, \frac{182}{3035}, -\frac{28}{607}, -\frac{644}{3035}, \frac{434}{3035}, \frac{686}{3035}, \frac{112}{3035}, -\frac{42}{607}, \frac{42}{3035})$ $+ \frac{28}{3035}\sqrt{1271}e^2 \otimes e_8 + \frac{28}{3035}\sqrt{1461}e^5 \otimes e_9$	{129, 568}
931:65	$0, 0, 0, 0, 0, 0, \frac{2}{1167}\sqrt{23905}e^{12}, \frac{1}{1167}\sqrt{564158}e^{13} + \frac{1}{1167}\sqrt{747202}e^{45},$ $\frac{1}{1167}\sqrt{572354}e^{17} + \frac{16}{1167}\sqrt{2049}e^{23} + \frac{1}{1167}\sqrt{83326}e^{46}$	$(\frac{35}{389}, -\frac{91}{389}, \frac{70}{389}, -\frac{305}{1167}, \frac{620}{1167}, \frac{242}{1167}, -\frac{56}{389}, \frac{105}{389}, -\frac{21}{389})$ $+ \frac{2}{1167}\sqrt{336719}e^5 \otimes e_9$	{129, 1457, 246789, 568}
931:65	$0, 0, 0, 0, 0, 0, \frac{94}{7009}\sqrt{554}e^{12}, \frac{47}{7009}\sqrt{1142}e^{13} + \frac{47}{7009}\sqrt{6010}e^{45},$ $\frac{47}{7009}\sqrt{706}e^{17} + \frac{47}{7009}\sqrt{3298}e^{23} + \frac{47}{7009}\sqrt{2870}e^{46}$	$(-\frac{188}{7009}, \frac{1645}{7009}, -\frac{376}{7009}, \frac{1739}{7009}, -\frac{2303}{7009}, \frac{470}{7009}, \frac{1457}{7009}, \frac{564}{7009}, \frac{1269}{7009})$ $+ \frac{470}{7009}\sqrt{74}e^2 \otimes e_8 + \frac{47}{7009}\sqrt{5214}e^4 \otimes e_6$	{48, 568}
931:65	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{15}e^{12}, \frac{1}{51}\sqrt{570}e^{13} + \frac{1}{51}\sqrt{130}e^{45},$ $\frac{1}{51}\sqrt{310}e^{17} + \frac{2}{51}\sqrt{70}e^{23} + \frac{5}{51}\sqrt{30}e^{46}$	$(-\frac{1}{17}, \frac{5}{17}, -\frac{2}{17}, \frac{1}{17}, -\frac{4}{17}, \frac{2}{17}, \frac{4}{17}, -\frac{3}{17}, \frac{3}{17})$ $+ \frac{10}{51}\sqrt{6}e^4 \otimes e_5 + \frac{2}{51}\sqrt{205}e^6 \otimes e_8$	{1235679, 1346}
931:65	$0, 0, 0, 0, 0, 0, \frac{2}{189}\sqrt{2001}e^{12}, \frac{1}{567}\sqrt{164082}e^{13} + \frac{1}{567}\sqrt{353510}e^{45},$ $\frac{1}{567}\sqrt{118726}e^{17} + \frac{2}{567}\sqrt{20677}e^{23} + \frac{1}{567}\sqrt{140070}e^{46}$	$(\frac{1}{7}, -\frac{5}{189}, \frac{2}{7}, \frac{407}{567}, -\frac{164}{567}, -\frac{260}{567}, \frac{22}{189}, \frac{3}{7}, \frac{7}{27})$ $+ \frac{2}{567}\sqrt{155411}e^4 \otimes e_6$	{1457, 167, 48, 568}
931:65	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{285}e^{12}, \frac{19}{123}\sqrt{30}e^{13} + \frac{1}{369}\sqrt{6270}e^{45},$ $\frac{1}{369}\sqrt{41610}e^{17} + \frac{8}{369}\sqrt{570}e^{23} + \frac{5}{123}\sqrt{418}e^{46}$	$(-\frac{3}{41}, \frac{15}{41}, -\frac{6}{41}, -\frac{1}{3}, \frac{14}{123}, \frac{68}{123}, \frac{12}{41}, -\frac{9}{41}, \frac{9}{41})$ $+ \frac{2}{369}\sqrt{45030}e^6 \otimes e_8$	{123679, 13456, 23489, 3578}
931:65	$0, 0, 0, 0, 0, 0, \frac{98}{4285}\sqrt{326}e^{12}, \frac{98}{4285}\sqrt{181}e^{13} + \frac{49}{4285}\sqrt{1618}e^{45},$ $\frac{49}{4285}\sqrt{458}e^{17} + \frac{98}{4285}\sqrt{334}e^{23} + \frac{49}{4285}\sqrt{394}e^{46}$	$(-\frac{49}{857}, \frac{1666}{4285}, -\frac{98}{857}, \frac{833}{4285}, -\frac{1568}{4285}, \frac{343}{4285}, \frac{1421}{4285}, -\frac{147}{857}, \frac{1176}{4285})$ $+ \frac{49}{4285}\sqrt{2598}e^4 \otimes e_5 + \frac{98}{4285}\sqrt{1223}e^2 \otimes e_8$	{3489, 35689}
931:66	$0, 0, 0, 0, 0, 0, \frac{2}{5}\sqrt{5}e^{12}, \frac{2}{5}\sqrt{10}e^{13} + \frac{2}{5}\sqrt{5}e^{45},$ $\frac{1}{5}\sqrt{15}e^{17} + e^{24} + \frac{1}{5}\sqrt{15}e^{36}$	$(0, 0, \frac{1}{2}, 0, \frac{1}{2}, -\frac{1}{2}, 0, \frac{1}{2}, 0)$ $+ \frac{3}{5}\sqrt{5}e^3 \otimes e_6$	{135, 168, 378, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:66	$0, 0, 0, 0, 0, 0, \frac{170}{481}e^{12}, \frac{17}{481}\sqrt{217}e^{13} + \frac{34}{481}\sqrt{15}e^{45},$ $\frac{51}{481}\sqrt{15}e^{17} + \frac{34}{481}\sqrt{46}e^{24} + \frac{17}{481}\sqrt{105}e^{36}$	$(\frac{119}{962}, \frac{17}{962}, -\frac{17}{74}, \frac{119}{481}, -\frac{170}{481}, \frac{238}{481}, \frac{68}{481}, -\frac{51}{481}, \frac{255}{962})$ $+ \frac{17}{481}\sqrt{381}e^4 \otimes e_5 + \frac{68}{481}\sqrt{30}e^6 \otimes e_8$	{158, 23589}
931:66	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{20}\sqrt{130}e^{13} + \frac{1}{10}\sqrt{10}e^{45},$ $\frac{1}{20}\sqrt{55}e^{17} + \frac{1}{2}e^{24} + \frac{1}{20}\sqrt{55}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{2}e^2 \otimes e_8 + \frac{3}{20}\sqrt{10}e^3 \otimes e_6$	{168, 378}
931:66	$0, 0, 0, 0, 0, 0, \frac{2}{5}\sqrt{5}e^{12}, e^{13} + \frac{2}{5}\sqrt{5}e^{45},$ $\frac{1}{5}\sqrt{15}e^{17} + \frac{2}{5}\sqrt{10}e^{24} + \frac{1}{5}\sqrt{15}e^{36}$	$(\frac{3}{10}, -\frac{3}{10}, -\frac{1}{10}, \frac{3}{5}, -\frac{2}{5}, \frac{2}{5}, 0, \frac{1}{5}, \frac{3}{10})$ $+ \frac{3}{5}\sqrt{5}e^4 \otimes e_5$	{1235679, 135, 259, 567}
931:66	$0, 0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{12}, \frac{1}{4}\sqrt{14}e^{13} + \frac{1}{2}\sqrt{3}e^{45},$ $\frac{3}{4}e^{17} + \frac{1}{2}\sqrt{2}e^{24} + \frac{3}{4}e^{36}$	$(-\frac{1}{8}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{2}\sqrt{3}e^5 \otimes e_9 + \frac{1}{4}\sqrt{6}e^3 \otimes e_6$	{1457, 3456}
931:66	$0, 0, 0, 0, 0, 0, \frac{28}{97}\sqrt{3}e^{12}, \frac{56}{485}e^{13} + \frac{28}{485}\sqrt{209}e^{45},$ $\frac{28}{485}\sqrt{6}e^{17} + \frac{28}{485}\sqrt{138}e^{24} + \frac{84}{485}\sqrt{23}e^{36}$	$(\frac{6}{485}, \frac{146}{485}, -\frac{24}{97}, \frac{12}{485}, -\frac{126}{485}, \frac{278}{485}, \frac{152}{485}, -\frac{114}{485}, \frac{158}{485})$ $+ \frac{28}{485}\sqrt{402}e^6 \otimes e_8$	{123489, 124569, 3456, 48}
931:66	$0, 0, 0, 0, 0, 0, \frac{2}{13}\sqrt{5}e^{12}, \frac{10}{13}e^{13} + \frac{2}{13}\sqrt{5}e^{45},$ $\frac{2}{13}\sqrt{10}e^{17} + \frac{10}{13}e^{24} + \frac{2}{13}\sqrt{10}e^{36}$	$(-\frac{2}{13}, \frac{7}{13}, -\frac{1}{13}, -\frac{4}{13}, \frac{1}{13}, \frac{4}{13}, \frac{5}{13}, -\frac{3}{13}, \frac{3}{13})$ $+ \frac{2}{13}\sqrt{55}e^2 \otimes e_8$	{12345, 14789, 24567, 34689}
931:66	$0, 0, 0, 0, 0, 0, \frac{1}{2}e^{12}, \frac{1}{4}\sqrt{6}e^{13} + \frac{1}{2}e^{45},$ $\frac{1}{4}\sqrt{3}e^{17} + \frac{1}{4}\sqrt{6}e^{24} + \frac{1}{4}\sqrt{3}e^{36}$	$(\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, 0, -\frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, 0)$ $+ \frac{1}{2}e^3 \otimes e_6 + \frac{1}{2}e^4 \otimes e_5$	{135, 567}
931:66	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{10}e^{12}, \frac{1}{2}e^{13} + \frac{1}{10}\sqrt{10}e^{45},$ $\frac{1}{20}\sqrt{55}e^{17} + \frac{1}{20}\sqrt{130}e^{24} + \frac{1}{20}\sqrt{55}e^{36}$	$(\frac{1}{40}, \frac{1}{10}, -\frac{7}{40}, \frac{1}{20}, -\frac{1}{5}, \frac{13}{40}, \frac{1}{8}, -\frac{3}{20}, \frac{3}{20})$ $+ \frac{1}{2}e^2 \otimes e_8 + \frac{3}{20}\sqrt{10}e^4 \otimes e_5$	{1235679, 259}
931:66	$0, 0, 0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{2}{5}\sqrt{3}e^{13} + \frac{8}{25}\sqrt{5}e^{45},$ $\frac{4}{25}\sqrt{15}e^{17} + \frac{4}{25}\sqrt{10}e^{24} + \frac{4}{25}\sqrt{15}e^{36}$	$(-\frac{2}{25}, \frac{3}{25}, \frac{7}{25}, -\frac{4}{25}, \frac{9}{25}, -\frac{8}{25}, \frac{1}{25}, \frac{1}{5}, -\frac{1}{25})$ $+ \frac{2}{25}\sqrt{105}e^5 \otimes e_9$	{123489, 1457, 246789, 3456}
931:66	$0, 0, 0, 0, 0, 0, \frac{16}{1907}\sqrt{497}e^{12}, \frac{16}{1907}\sqrt{698}e^{13} + \frac{16}{1907}\sqrt{1065}e^{45},$ $\frac{96}{1907}\sqrt{15}e^{17} + \frac{16}{1907}\sqrt{590}e^{24} + \frac{16}{1907}\sqrt{885}e^{36}$	$(-\frac{136}{1907}, \frac{296}{1907}, \frac{16}{1907}, -\frac{272}{1907}, \frac{152}{1907}, \frac{8}{1907}, \frac{160}{1907}, -\frac{120}{1907}, \frac{24}{1907})$ $+ \frac{16}{1907}\sqrt{690}e^6 \otimes e_8 + \frac{16}{1907}\sqrt{6}e^5 \otimes e_9$	{123489, 3456}
931:67	$0, 0, 0, 0, 0, 0, \frac{38}{3709}\sqrt{463}e^{12}, \frac{19}{3709}\sqrt{2298}e^{13} + \frac{38}{3709}\sqrt{565}e^{45},$ $\frac{19}{3709}\sqrt{530}e^{17} + \frac{38}{3709}\sqrt{955}e^{26} + \frac{38}{3709}\sqrt{415}e^{34}$	$(\frac{323}{3709}, -\frac{703}{3709}, -\frac{38}{3709}, -\frac{19}{3709}, \frac{304}{3709}, \frac{646}{3709}, -\frac{380}{3709}, \frac{285}{3709}, -\frac{57}{3709})$ $+ \frac{19}{3709}\sqrt{2306}e^5 \otimes e_9 + \frac{95}{3709}\sqrt{182}e^6 \otimes e_8$	{23489, 3578}
931:67	$0, 0, 0, 0, 0, 0, \frac{2}{2369}\sqrt{169917}e^{12}, \frac{6}{2369}\sqrt{53387}e^{13} + \frac{8}{2369}\sqrt{44715}e^{45},$ $\frac{4}{2369}\sqrt{154470}e^{17} + \frac{12}{2369}\sqrt{8130}e^{26} + \frac{16}{2369}\sqrt{4065}e^{34}$	$(\frac{18}{2369}, -\frac{173}{2369}, \frac{29}{103}, -\frac{804}{2369}, \frac{1489}{2369}, \frac{36}{2369}, -\frac{155}{2369}, \frac{685}{2369}, -\frac{137}{2369})$ $+ \frac{2}{2369}\sqrt{1604049}e^5 \otimes e_9$	{2379, 24789, 345, 58}
931:67	$0, 0, 0, 0, 0, 0, \frac{41}{3391}\sqrt{570}e^{12}, \frac{164}{3391}\sqrt{103}e^{13} + \frac{492}{3391}\sqrt{11}e^{45},$ $\frac{41}{3391}\sqrt{698}e^{17} + \frac{328}{3391}\sqrt{34}e^{26} + \frac{41}{3391}\sqrt{866}e^{34}$	$(-\frac{328}{3391}, \frac{1394}{3391}, \frac{41}{3391}, \frac{697}{3391}, -\frac{984}{3391}, -\frac{656}{3391}, \frac{1066}{3391}, -\frac{287}{3391}, \frac{738}{3391})$ $+ \frac{164}{3391}\sqrt{78}e^4 \otimes e_5 + \frac{41}{3391}\sqrt{4670}e^2 \otimes e_8$	{156789, 34689}
931:67	$0, 0, 0, 0, 0, 0, \frac{2}{2187}\sqrt{410530}e^{12}, \frac{2}{2187}\sqrt{345922}e^{13} + \frac{2}{2187}\sqrt{149406}e^{45},$ $\frac{2}{2187}\sqrt{17498}e^{17} + \frac{28}{2187}\sqrt{2019}e^{26} + \frac{4}{729}\sqrt{35669}e^{34}$	$(\frac{329}{2187}, \frac{353}{2187}, -\frac{37}{243}, \frac{448}{729}, -\frac{1348}{2187}, \frac{658}{2187}, \frac{682}{2187}, -\frac{4}{2187}, \frac{337}{729})$ $+ \frac{2}{2187}\sqrt{2453758}e^4 \otimes e_5$	{125, 1479, 2347, 359}
931:67	$0, 0, 0, 0, 0, 0, \frac{10}{851}\sqrt{177}e^{12}, \frac{30}{851}\sqrt{19}e^{13} + \frac{20}{851}\sqrt{219}e^{45},$ $\frac{80}{851}\sqrt{3}e^{17} + \frac{90}{851}\sqrt{10}e^{26} + \frac{10}{851}\sqrt{246}e^{34}$	$(-\frac{90}{851}, \frac{175}{851}, \frac{5}{37}, -\frac{120}{851}, \frac{145}{851}, -\frac{180}{851}, \frac{85}{851}, \frac{25}{851}, -\frac{5}{851})$ $+ \frac{10}{851}\sqrt{1041}e^5 \otimes e_9 + \frac{30}{851}\sqrt{138}e^2 \otimes e_8$	{279, 358}
931:67	$0, 0, 0, 0, 0, 0, \frac{1}{567}\sqrt{353510}e^{12}, \frac{1}{567}\sqrt{164082}e^{13} + \frac{2}{189}\sqrt{2001}e^{45},$ $\frac{1}{567}\sqrt{118726}e^{17} + \frac{1}{567}\sqrt{140070}e^{26} + \frac{2}{567}\sqrt{20677}e^{34}$	$(-\frac{130}{567}, \frac{407}{567}, \frac{2}{7}, -\frac{5}{189}, \frac{47}{567}, -\frac{260}{567}, \frac{277}{567}, \frac{32}{567}, \frac{7}{27})$ $+ \frac{2}{567}\sqrt{155411}e^2 \otimes e_6$	{134678, 167, 3456, 568}
931:67	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{12122}e^{12}, \frac{16}{383}\sqrt{209}e^{13} + \frac{4}{383}\sqrt{3135}e^{45},$ $\frac{3}{383}\sqrt{2090}e^{17} + \frac{4}{383}\sqrt{4389}e^{26} + \frac{4}{383}\sqrt{43890}e^{34}$	$(-\frac{56}{383}, \frac{186}{383}, \frac{33}{383}, \frac{41}{383}, -\frac{64}{383}, -\frac{112}{383}, \frac{130}{383}, -\frac{23}{383}, \frac{74}{383})$ $+ \frac{1}{383}\sqrt{136686}e^2 \otimes e_8$	{1236, 156789, 24567, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:67	$0, 0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{14630}e^{12}, \frac{4}{2071}\sqrt{87430}e^{13} + \frac{16}{2071}\sqrt{2415}e^{45},$ $\frac{24}{2071}\sqrt{1085}e^{17} + \frac{4}{2071}\sqrt{100310}e^{26} + \frac{8}{2071}\sqrt{14595}e^{34}$	$(\frac{319}{2071}, -\frac{423}{2071}, -\frac{241}{2071}, \frac{24}{109}, -\frac{378}{2071}, \frac{638}{2071}, -\frac{104}{2071}, \frac{78}{2071}, \frac{215}{2071})$ $+ \frac{28}{2071}\sqrt{2710}e^6 \otimes e_8$	{125789, 148, 23489, 3578}
931:67	$0, 0, 0, 0, 0, 0, \frac{147}{5569}\sqrt{282}e^{12}, \frac{49}{5569}\sqrt{2822}e^{13} + \frac{196}{5569}\sqrt{185}e^{45},$ $\frac{833}{5569}\sqrt{10}e^{17} + \frac{49}{5569}\sqrt{210}e^{26} + \frac{49}{5569}\sqrt{1410}e^{34}$	$(-\frac{637}{5569}, \frac{1127}{5569}, \frac{1372}{5569}, -\frac{1519}{5569}, \frac{2254}{5569}, -\frac{1274}{5569}, \frac{490}{5569}, \frac{735}{5569}, -\frac{147}{5569})$ $+ \frac{49}{5569}\sqrt{3670}e^2 \otimes e_6 + \frac{98}{5569}\sqrt{1534}e^5 \otimes e_9$	{2379, 24789}
931:68	$0, 0, 0, 0, 0, 0, \frac{2}{2773}\sqrt{231238}e^{12}, \frac{4}{2773}\sqrt{25671}e^{15} + \frac{4}{2773}\sqrt{64277}e^{34},$ $\frac{2}{2773}\sqrt{244571}e^{13} + \frac{4}{2773}\sqrt{72834}e^{27} + \frac{2}{2773}\sqrt{77610}e^{46}$	$(-\frac{92}{2773}, \frac{147}{2773}, \frac{294}{2773}, -\frac{545}{2773}, -\frac{159}{2773}, \frac{747}{2773}, \frac{55}{2773}, -\frac{251}{2773}, \frac{202}{2773})$ $+ \frac{8}{2773}\sqrt{30049}e^2 \otimes e_8$	{1234569, 13789, 2347, 3568}
931:68	$0, 0, 0, 0, 0, 0, \frac{2}{2701}\sqrt{339721}e^{12}, \frac{2}{2701}\sqrt{971265}e^{15} + \frac{4}{2701}\sqrt{144581}e^{34},$ $\frac{2}{2701}\sqrt{400037}e^{13} + \frac{2}{2701}\sqrt{426647}e^{27} + \frac{2}{2701}\sqrt{715809}e^{46}$	$(-\frac{766}{2701}, \frac{299}{2701}, \frac{598}{2701}, \frac{242}{2701}, \frac{22}{37}, -\frac{410}{2701}, -\frac{467}{2701}, \frac{840}{2701}, -\frac{168}{2701})$ $+ \frac{96}{2701}\sqrt{887}e^5 \otimes e_9$	{12357, 135, 2369, 3679}
931:68	$0, 0, 0, 0, 0, 0, \frac{3}{1801}\sqrt{137}e^{12}, \frac{1}{1801}\sqrt{389}e^{15} + \frac{2}{1801}\sqrt{422}e^{34},$ $\frac{11}{1801}\sqrt{11}e^{13} + \frac{16}{1801}\sqrt{6}e^{27} + \frac{2}{1801}\sqrt{130}e^{46}$	$(\frac{21}{1801}, -\frac{6}{1801}, -\frac{12}{1801}, \frac{5}{1801}, -\frac{28}{1801}, \frac{4}{1801}, \frac{15}{1801}, -\frac{7}{1801}, \frac{9}{1801})$ $+ \frac{13}{1801}\sqrt{5}e^4 \otimes e_6 + \frac{2}{1801}\sqrt{606}e^2 \otimes e_8$	{2347, 3568}
931:68	$0, 0, 0, 0, 0, 0, \frac{2}{11}e^{12}, \frac{2}{33}\sqrt{39}e^{15} + \frac{2}{33}\sqrt{6}e^{34},$ $\frac{2}{33}\sqrt{3}e^{13} + \frac{2}{11}e^{27} + \frac{2}{33}\sqrt{33}e^{46}$	$(-\frac{2}{11}, \frac{1}{11}, \frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{1}{11}, 0, 0)$ $+ \frac{2}{33}\sqrt{42}e^6 \otimes e_8 + \frac{8}{33}\sqrt{3}e^5 \otimes e_9$	{124567, 1456}
931:68	$0, 0, 0, 0, 0, 0, \frac{34}{3461}\sqrt{481}e^{12}, \frac{68}{3461}\sqrt{105}e^{15} + \frac{17}{3461}\sqrt{2006}e^{34},$ $\frac{544}{3461}\sqrt{2}e^{13} + \frac{544}{3461}\sqrt{3}e^{27} + \frac{17}{3461}\sqrt{246}e^{46}$	$(-\frac{391}{3461}, \frac{204}{3461}, \frac{408}{3461}, -\frac{493}{3461}, \frac{306}{3461}, \frac{510}{3461}, -\frac{187}{3461}, -\frac{85}{3461}, \frac{17}{3461})$ $+ \frac{17}{3461}\sqrt{1518}e^5 \otimes e_9 + \frac{3461}{3461}\sqrt{4630}e^2 \otimes e_8$	{13789, 3568}
931:68	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{51}e^{13} + \frac{1}{28}\sqrt{238}e^{27} + \frac{1}{28}\sqrt{170}e^{46}$	$(\frac{1}{4}, -\frac{1}{14}, -\frac{1}{7}, \frac{37}{56}, \frac{15}{56}, -\frac{31}{56}, \frac{5}{28}, \frac{29}{56}, \frac{3}{28})$ $+ \frac{1}{14}\sqrt{391}e^4 \otimes e_6$	{23457, 23678, 345, 368}
931:68	$0, 0, 0, 0, 0, 0, \frac{26}{563}\sqrt{65}e^{12}, \frac{26}{563}\sqrt{87}e^{15} + \frac{208}{563}e^{34},$ $\frac{26}{563}\sqrt{19}e^{13} + \frac{26}{563}\sqrt{7}e^{27} + \frac{26}{563}\sqrt{111}e^{46}$	$(\frac{130}{563}, \frac{13}{563}, \frac{26}{563}, -\frac{104}{563}, -\frac{208}{563}, \frac{260}{563}, \frac{143}{563}, -\frac{78}{563}, \frac{156}{563})$ $+ \frac{208}{563}\sqrt{3}e^4 \otimes e_5 + \frac{260}{563}\sqrt{3}e^6 \otimes e_8$	{245789, 4589}
931:68	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{17}e^{12}, \frac{2}{43}\sqrt{255}e^{15} + \frac{4}{43}\sqrt{34}e^{34},$ $\frac{2}{43}\sqrt{187}e^{13} + \frac{2}{43}\sqrt{17}e^{27} + \frac{2}{43}\sqrt{255}e^{46}$	$(\frac{2}{43}, \frac{5}{43}, \frac{10}{43}, -\frac{16}{43}, -\frac{8}{43}, \frac{28}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{12}{43})$ $+ \frac{12}{43}\sqrt{17}e^6 \otimes e_8$	{23467, 23578, 346, 358}
931:68	$0, 0, 0, 0, 0, 0, \frac{11}{193}\sqrt{77}e^{12}, \frac{11}{193}\sqrt{55}e^{15} + \frac{44}{193}\sqrt{5}e^{34},$ $\frac{77}{193}e^{13} + \frac{22}{193}\sqrt{2}e^{27} + \frac{44}{193}\sqrt{2}e^{46}$	$(\frac{77}{193}, -\frac{22}{193}, -\frac{44}{193}, \frac{77}{193}, -\frac{44}{193}, -\frac{44}{193}, \frac{55}{193}, \frac{33}{193}, \frac{33}{193})$ $+ \frac{11}{193}\sqrt{161}e^4 \otimes e_6 + \frac{22}{193}\sqrt{46}e^1 \otimes e_5$	{2567, 56}
931:68	$0, 0, 0, 0, 0, 0, \frac{69}{3961}\sqrt{358}e^{12}, \frac{46}{3961}\sqrt{303}e^{15} + \frac{23}{3961}\sqrt{3358}e^{34},$ $\frac{46}{3961}\sqrt{739}e^{13} + \frac{69}{3961}\sqrt{418}e^{27} + \frac{23}{3961}\sqrt{1070}e^{46}$	$(\frac{69}{3961}, \frac{138}{3961}, \frac{276}{3961}, -\frac{667}{3961}, -\frac{460}{3961}, \frac{1012}{3961}, \frac{207}{3961}, -\frac{23}{3961}, \frac{345}{3961})$ $+ \frac{23}{3961}\sqrt{6306}e^2 \otimes e_8 + \frac{23}{3961}\sqrt{662}e^1 \otimes e_5$	{13789, 3568}
931:68	$0, 0, 0, 0, 0, 0, \frac{14}{293}\sqrt{265}e^{12}, \frac{2}{293}\sqrt{6837}e^{15} + \frac{4}{293}\sqrt{159}e^{34},$ $\frac{2}{293}\sqrt{14469}e^{13} + \frac{2}{293}\sqrt{1643}e^{27} + \frac{2}{293}\sqrt{1961}e^{46}$	$(\frac{490}{879}, -\frac{71}{879}, -\frac{142}{879}, \frac{56}{293}, -\frac{464}{879}, \frac{60}{293}, \frac{419}{879}, \frac{26}{879}, \frac{116}{293})$ $+ \frac{8}{293}\sqrt{2438}e^1 \otimes e_5$	{1234, 1347, 2345679, 34569}
931:68	$0, 0, 0, 0, 0, 0, \frac{125}{1129}\sqrt{7}e^{12}, \frac{25}{1129}\sqrt{597}e^{15} + \frac{200}{1129}\sqrt{2}e^{34},$ $\frac{25}{1129}\sqrt{209}e^{13} + \frac{50}{1129}\sqrt{89}e^{27} + \frac{50}{1129}\sqrt{105}e^{46}$	$(-\frac{175}{1129}, \frac{50}{1129}, \frac{100}{1129}, \frac{275}{1129}, \frac{550}{1129}, -\frac{350}{1129}, -\frac{125}{1129}, \frac{375}{1129}, -\frac{75}{1129})$ $+ \frac{25}{1129}\sqrt{561}e^4 \otimes e_6 + \frac{50}{1129}\sqrt{354}e^5 \otimes e_9$	{2369, 3679}
931:69	$0, 0, 0, 0, 0, 0, \frac{6}{571}\sqrt{399}e^{12}, \frac{6}{571}\sqrt{1005}e^{15} + \frac{18}{571}\sqrt{59}e^{34},$ $\frac{12}{571}\sqrt{93}e^{17} + \frac{18}{571}\sqrt{97}e^{23} + \frac{36}{571}\sqrt{11}e^{46}$	$(-\frac{36}{571}, \frac{69}{571}, -\frac{72}{571}, \frac{87}{571}, \frac{51}{571}, -\frac{90}{571}, \frac{33}{571}, \frac{15}{571}, -\frac{3}{571})$ $+ \frac{12}{571}\sqrt{258}e^5 \otimes e_9 + \frac{6}{571}\sqrt{555}e^2 \otimes e_8$	{249, 578}
931:69	$0, 0, 0, 0, 0, 0, \frac{22}{733}\sqrt{398}e^{12}, \frac{33}{733}\sqrt{178}e^{15} + \frac{11}{733}\sqrt{1042}e^{34},$ $\frac{11}{733}\sqrt{1814}e^{17} + \frac{88}{733}\sqrt{19}e^{23} + \frac{33}{733}\sqrt{74}e^{46}$	$(\frac{77}{733}, -\frac{121}{733}, \frac{154}{733}, -\frac{121}{733}, -\frac{44}{733}, \frac{154}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{22}{733}\sqrt{123}e^6 \otimes e_8 + \frac{44}{733}\sqrt{114}e^1 \otimes e_5$	{1347, 345}
931:69	$0, 0, 0, 0, 0, 0, \frac{38}{2053}\sqrt{658}e^{12}, \frac{19}{2053}\sqrt{2030}e^{15} + \frac{190}{2053}\sqrt{19}e^{34},$ $\frac{19}{2053}\sqrt{2658}e^{17} + \frac{76}{2053}\sqrt{110}e^{23} + \frac{171}{2053}\sqrt{10}e^{46}$	$(\frac{57}{2053}, \frac{114}{2053}, \frac{114}{2053}, -\frac{361}{2053}, -\frac{304}{2053}, \frac{589}{2053}, \frac{171}{2053}, -\frac{247}{2053}, \frac{228}{2053})$ $+ \frac{38}{2053}\sqrt{183}e^2 \otimes e_8 + \frac{57}{2053}\sqrt{334}e^1 \otimes e_5$	{123469, 2345679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:69	$0, 0, 0, 0, 0, 0, \frac{6}{35}\sqrt{19}e^{12}, \frac{1}{35}\sqrt{874}e^{15} + \frac{1}{35}\sqrt{1558}e^{34},$ $\frac{1}{35}\sqrt{817}e^{17} + \frac{1}{35}\sqrt{741}e^{23} + \frac{1}{35}\sqrt{399}e^{46}$	$(-\frac{1}{14}, \frac{13}{70}, -\frac{1}{7}, \frac{79}{140}, \frac{69}{140}, -\frac{73}{140}, \frac{4}{35}, \frac{59}{140}, \frac{3}{70})$ $+ \frac{3}{35}\sqrt{247}e^4 \otimes e_6$	{1347, 135678, 345, 368}
931:69	$0, 0, 0, 0, 0, 0, \frac{26}{781}\sqrt{295}e^{12}, \frac{13}{781}\sqrt{2022}e^{15} + \frac{13}{781}\sqrt{1778}e^{34},$ $\frac{13}{781}\sqrt{826}e^{17} + \frac{104}{781}\sqrt{26}e^{23} + \frac{13}{781}\sqrt{1074}e^{46}$	$(\frac{65}{781}, -\frac{169}{781}, \frac{130}{781}, \frac{65}{781}, \frac{130}{781}, -\frac{104}{781}, -\frac{104}{781}, \frac{195}{781}, -\frac{39}{781})$ $+ \frac{156}{781}\sqrt{5}e^4 \otimes e_6 + \frac{26}{781}\sqrt{534}e^5 \otimes e_9$	{1456, 578}
931:69	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{187}e^{12}, \frac{1}{53}\sqrt{1326}e^{15} + \frac{1}{53}\sqrt{986}e^{34},$ $\frac{1}{53}\sqrt{442}e^{17} + \frac{8}{53}\sqrt{17}e^{23} + \frac{1}{53}\sqrt{714}e^{46}$	$(\frac{1}{53}, -\frac{5}{53}, \frac{2}{53}, \frac{13}{53}, \frac{14}{53}, -\frac{16}{53}, -\frac{4}{53}, \frac{15}{53}, -\frac{3}{53})$ $+ \frac{4}{53}\sqrt{102}e^5 \otimes e_9$	{126789, 1456, 249, 578}
931:69	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{1479}e^{12}, \frac{1}{134}\sqrt{5278}e^{15} + \frac{1}{134}\sqrt{4147}e^{34},$ $\frac{2}{67}\sqrt{406}e^{17} + \frac{9}{134}\sqrt{58}e^{23} + \frac{1}{67}\sqrt{435}e^{46}$	$(\frac{11}{134}, -\frac{17}{268}, \frac{11}{67}, -\frac{29}{134}, -\frac{9}{67}, \frac{85}{268}, \frac{5}{268}, -\frac{7}{134}, \frac{27}{268})$ $+ \frac{9}{134}\sqrt{87}e^1 \otimes e_5$	{123469, 1347, 2345679, 345}
931:69	$0, 0, 0, 0, 0, 0, \frac{2}{4069}\sqrt{667}e^{12}, \frac{1}{4069}\sqrt{5262}e^{15} + \frac{1}{4069}\sqrt{2810}e^{34},$ $\frac{1}{4069}\sqrt{2170}e^{17} + \frac{40}{4069}\sqrt{2}e^{23} + \frac{1}{4069}\sqrt{3306}e^{46}$	$(\frac{17}{4069}, -\frac{37}{4069}, \frac{34}{4069}, -\frac{19}{4069}, -\frac{2}{4069}, \frac{16}{4069}, -\frac{20}{4069}, \frac{15}{4069}, -\frac{3}{4069})$ $+ \frac{24}{4069}\sqrt{5}e^6 \otimes e_8 + \frac{40}{4069}\sqrt{3}e^5 \otimes e_9$	{1456, 578}
931:69	$0, 0, 0, 0, 0, 0, \frac{2}{469}\sqrt{145}e^{12}, \frac{1}{469}\sqrt{570}e^{15} + \frac{1}{469}\sqrt{534}e^{34},$ $\frac{5}{469}\sqrt{26}e^{17} + \frac{10}{469}\sqrt{5}e^{23} + \frac{1}{469}\sqrt{210}e^{46}$	$(\frac{5}{469}, -\frac{13}{469}, \frac{10}{469}, -\frac{1}{469}, \frac{4}{469}, -\frac{2}{469}, -\frac{8}{469}, \frac{9}{469}, -\frac{3}{469})$ $+ \frac{2}{469}\sqrt{154}e^1 \otimes e_5 + \frac{2}{469}\sqrt{67}e^4 \otimes e_6$	{1347, 345}
931:69	$0, 0, 0, 0, 0, 0, \frac{86}{4405}\sqrt{421}e^{12}, \frac{43}{4405}\sqrt{14}e^{15} + \frac{43}{4405}\sqrt{3178}e^{34},$ $\frac{86}{4405}\sqrt{138}e^{17} + \frac{43}{4405}\sqrt{334}e^{23} + \frac{258}{4405}\sqrt{29}e^{46}$	$(-\frac{129}{881}, \frac{1677}{4405}, -\frac{258}{881}, \frac{1118}{4405}, \frac{473}{4405}, -\frac{731}{4405}, \frac{1032}{4405}, -\frac{172}{4405}, \frac{387}{4405})$ $+ \frac{129}{4405}\sqrt{382}e^4 \otimes e_6 + \frac{86}{4405}\sqrt{1110}e^2 \otimes e_8$	{14578, 48}
931:69	$0, 0, 0, 0, 0, 0, \frac{2}{587}\sqrt{21385}e^{12}, \frac{2}{587}\sqrt{35485}e^{15} + \frac{2}{587}\sqrt{24205}e^{34},$ $\frac{20}{587}\sqrt{141}e^{17} + \frac{2}{587}\sqrt{38305}e^{23} + \frac{12}{587}\sqrt{235}e^{46}$	$(-\frac{84}{587}, \frac{333}{587}, -\frac{168}{587}, \frac{31}{587}, -\frac{53}{587}, \frac{134}{587}, \frac{249}{587}, -\frac{137}{587}, \frac{165}{587})$ $+ \frac{2}{587}\sqrt{114915}e^2 \otimes e_8$	{12345, 13789, 2347, 3589}
931:70	$0, 0, 0, 0, 0, 0, \frac{48}{163}e^{12}, \frac{16}{163}\sqrt{59}e^{14} + \frac{16}{163}\sqrt{38}e^{23} + \frac{8}{163}\sqrt{6}e^{56},$ $\frac{24}{163}\sqrt{14}e^{13} + \frac{8}{163}\sqrt{226}e^{27}$	$(-\frac{56}{163}, \frac{16}{163}, \frac{32}{163}, \frac{104}{163}, \frac{24}{163}, \frac{24}{163}, -\frac{40}{163}, \frac{48}{163}, -\frac{24}{163})$ $+ \frac{40}{163}\sqrt{22}e^4 \otimes e_9$	{134, 13456, 35679, 379}
931:70	$0, 0, 0, 0, 0, 0, \frac{2}{129}\sqrt{721}e^{12}, \frac{2}{129}\sqrt{309}e^{14} + \frac{2}{129}\sqrt{103}e^{23} + \frac{4}{129}\sqrt{206}e^{56},$ $\frac{2}{129}\sqrt{309}e^{13} + \frac{4}{129}\sqrt{206}e^{27}$	$(\frac{13}{129}, \frac{4}{43}, \frac{8}{43}, \frac{23}{129}, \frac{121}{129}, -\frac{85}{129}, \frac{25}{129}, \frac{12}{43}, \frac{37}{129})$ $+ \frac{206}{129}e^5 \otimes e_6$	{15789, 16789, 458, 468}
931:70	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{2}e^{12}, \frac{2}{11}\sqrt{2}e^{14} + \frac{2}{11}\sqrt{3}e^{23} + \frac{4}{11}e^{56},$ $\frac{4}{11}e^{13} + \frac{2}{11}\sqrt{2}e^{27}$	$(\frac{1}{11}, 0, 0, -\frac{1}{11}, \frac{3}{11}, -\frac{3}{11}, \frac{1}{11}, 0, \frac{1}{11})$ $+ \frac{2}{11}\sqrt{6}e^5 \otimes e_9 + \frac{4}{11}e^1 \otimes e_4$	{129, 24567}
931:70	$0, 0, 0, 0, 0, 0, \frac{2}{293}\sqrt{2054}e^{12},$ $\frac{2}{293}\sqrt{3634}e^{14} + \frac{2}{293}\sqrt{7347}e^{23} + \frac{24}{293}\sqrt{79}e^{56}, \frac{4}{293}\sqrt{2054}e^{13} + \frac{2}{293}\sqrt{7426}e^{27}$	$(-\frac{41}{293}, \frac{16}{293}, \frac{32}{293}, \frac{89}{293}, \frac{149}{293}, \frac{101}{293}, -\frac{25}{293}, \frac{48}{293}, -\frac{9}{293})$ $+ \frac{10}{293}\sqrt{790}e^5 \otimes e_9$	{129, 146789, 24567, 58}
931:71	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{29}e^{12}, \frac{3}{34}\sqrt{2}e^{14} + \frac{1}{34}\sqrt{107}e^{25} + \frac{1}{17}\sqrt{19}e^{36},$ $\frac{4}{17}\sqrt{2}e^{13} + \frac{1}{34}\sqrt{122}e^{27}$	$(\frac{5}{68}, 0, 0, -\frac{7}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68}, -\frac{1}{34}, \frac{5}{68})$ $+ \frac{1}{17}\sqrt{30}e^2 \otimes e_5 + \frac{3}{34}\sqrt{7}e^3 \otimes e_6$	{123469, 1345679, 2367, 356}
931:71	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{177}e^{12}, \frac{3}{71}\sqrt{354}e^{14} + \frac{3}{71}\sqrt{118}e^{25} + \frac{2}{71}\sqrt{177}e^{36},$ $\frac{1}{71}\sqrt{1298}e^{13} + \frac{1}{71}\sqrt{2714}e^{27}$	$(-\frac{21}{71}, \frac{3}{71}, \frac{6}{71}, \frac{44}{71}, \frac{20}{71}, \frac{17}{71}, -\frac{18}{71}, \frac{23}{71}, -\frac{15}{71})$ $+ \frac{2}{71}\sqrt{1770}e^4 \otimes e_9$	{12347, 1345, 239, 3579}
931:71	$0, 0, 0, 0, 0, 0, \frac{138}{1261}e^{12}, \frac{46}{1261}\sqrt{102}e^{14} + \frac{46}{1261}\sqrt{133}e^{25} + \frac{23}{1261}\sqrt{426}e^{36},$ $\frac{23}{1261}\sqrt{1318}e^{13} + \frac{23}{1261}\sqrt{562}e^{27}$	$(\frac{230}{1261}, \frac{115}{1261}, \frac{230}{1261}, -\frac{23}{97}, -\frac{184}{1261}, -\frac{23}{97}, \frac{345}{1261}, -\frac{69}{1261}, \frac{460}{1261})$ $+ \frac{138}{1261}\sqrt{33}e^3 \otimes e_6 + \frac{69}{1261}\sqrt{130}e^1 \otimes e_4$	{125679, 169, 2456, 467}
931:71	$0, 0, 0, 0, 0, 0, \frac{14}{4177}\sqrt{1070}e^{12},$ $\frac{21}{4177}\sqrt{6}e^{14} + \frac{7}{4177}\sqrt{4190}e^{25} + \frac{7}{4177}\sqrt{3634}e^{36}, \frac{7}{4177}\sqrt{3230}e^{13} + \frac{7}{4177}\sqrt{5258}e^{27}$	$(-\frac{224}{4177}, \frac{63}{4177}, \frac{126}{4177}, \frac{301}{4177}, \frac{14}{4177}, -\frac{49}{4177}, -\frac{161}{4177}, \frac{77}{4177}, -\frac{98}{4177})$ $+ \frac{168}{4177}\sqrt{5}e^6 \otimes e_9 + \frac{7}{4177}\sqrt{4818}e^2 \otimes e_5$	{2367, 356}
931:71	$0, 0, 0, 0, 0, 0, \frac{10}{139}\sqrt{86}e^{12}, \frac{3}{139}\sqrt{86}e^{14} + \frac{1}{139}\sqrt{7310}e^{25} + \frac{1}{139}\sqrt{5074}e^{36},$ $\frac{1}{139}\sqrt{7310}e^{13} + \frac{1}{139}\sqrt{8858}e^{27}$	$(-\frac{8}{139}, \frac{21}{139}, \frac{42}{139}, \frac{7}{139}, -\frac{22}{139}, -\frac{43}{139}, \frac{13}{139}, -\frac{1}{139}, \frac{34}{139})$ $+ \frac{1}{139}\sqrt{10578}e^2 \otimes e_5$	{123469, 1345679, 2367, 356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:71	$0, 0, 0, 0, 0, 0, \frac{6}{35}\sqrt{19}e^{12}, \frac{1}{35}\sqrt{399}e^{14} + \frac{1}{35}\sqrt{133}e^{25} + \frac{1}{35}\sqrt{57}e^{36},$ $\frac{1}{35}\sqrt{874}e^{13} + \frac{1}{35}\sqrt{190}e^{27}$	$(\frac{79}{140}, -\frac{1}{14}, -\frac{1}{7}, -\frac{73}{140}, \frac{4}{35}, \frac{13}{70}, \frac{69}{140}, \frac{3}{70}, \frac{59}{140})$ $+ \frac{3}{35}\sqrt{247}e^1 \otimes e_4$	{1235, 137, 234579, 349}
931:71	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{87}e^{12}, \frac{1}{26}\sqrt{174}e^{14} + \frac{1}{26}\sqrt{493}e^{25} + \frac{1}{13}\sqrt{87}e^{36},$ $\frac{2}{13}\sqrt{58}e^{13} + \frac{1}{26}\sqrt{406}e^{27}$	$(-\frac{7}{52}, \frac{4}{13}, \frac{8}{13}, \frac{1}{4}, -\frac{5}{26}, -\frac{1}{2}, \frac{9}{52}, \frac{3}{26}, \frac{25}{52})$ $+ \frac{3}{26}\sqrt{145}e^3 \otimes e_6$	{125679, 169, 2456, 467}
931:71	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{29}e^{12}, \frac{3}{34}\sqrt{2}e^{14} + \frac{1}{34}\sqrt{107}e^{25} + \frac{1}{17}\sqrt{19}e^{36},$ $\frac{4}{17}\sqrt{2}e^{13} + \frac{1}{34}\sqrt{122}e^{27}$	$(\frac{5}{68}, 0, 0, -\frac{7}{68}, -\frac{1}{34}, -\frac{1}{34}, \frac{5}{68}, -\frac{1}{34}, \frac{5}{68})$ $+ \frac{1}{17}\sqrt{30}e^2 \otimes e_5 - \frac{3}{34}\sqrt{7}e^3 \otimes e_6$	{123469, 1345679, 2367, 356}
931:71	$0, 0, 0, 0, 0, 0, \frac{2}{587}\sqrt{21385}e^{12},$ $\frac{12}{587}\sqrt{235}e^{14} + \frac{2}{587}\sqrt{35485}e^{25} + \frac{2}{587}\sqrt{59690}e^{36}, \frac{4}{587}\sqrt{705}e^{13} + \frac{22}{587}\sqrt{470}e^{27}$	$(\frac{31}{587}, -\frac{84}{587}, -\frac{168}{587}, \frac{134}{587}, \frac{249}{587}, \frac{333}{587}, -\frac{53}{587}, \frac{165}{587}, -\frac{137}{587})$ $+ \frac{2}{587}\sqrt{114915}e^6 \otimes e_9$	{129, 1579, 25678, 68}
931:71	$0, 0, 0, 0, 0, 0, \frac{3}{49}\sqrt{42}e^{12}, \frac{4}{49}\sqrt{21}e^{14} + \frac{2}{49}\sqrt{42}e^{25} + \frac{3}{49}\sqrt{42}e^{36},$ $\frac{1}{49}\sqrt{798}e^{13} + \frac{2}{49}\sqrt{21}e^{27}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{2}{49}\sqrt{210}e^3 \otimes e_6 - \frac{5}{49}\sqrt{42}e^4 \otimes e_9$	{123457, 134, 2359, 379}
931:71	$0, 0, 0, 0, 0, 0, \frac{3}{49}\sqrt{42}e^{12}, \frac{4}{49}\sqrt{21}e^{14} + \frac{2}{49}\sqrt{42}e^{25} + \frac{3}{49}\sqrt{42}e^{36},$ $\frac{1}{49}\sqrt{798}e^{13} + \frac{2}{49}\sqrt{21}e^{27}$	$(-\frac{2}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, 0, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, 0)$ $+ \frac{2}{49}\sqrt{210}e^3 \otimes e_6 + \frac{5}{49}\sqrt{42}e^4 \otimes e_9$	{123457, 134, 2359, 379}
931:71	$0, 0, 0, 0, 0, 0, \frac{138}{1261}e^{12}, \frac{46}{1261}\sqrt{102}e^{14} + \frac{46}{1261}\sqrt{133}e^{25} + \frac{23}{1261}\sqrt{426}e^{36},$ $\frac{23}{1261}\sqrt{1318}e^{13} + \frac{23}{1261}\sqrt{562}e^{27}$	$(\frac{230}{1261}, \frac{115}{1261}, \frac{230}{1261}, -\frac{23}{97}, -\frac{184}{1261}, -\frac{23}{97}, \frac{345}{1261}, -\frac{69}{1261}, \frac{460}{1261})$ $- \frac{138}{1261}\sqrt{33}e^3 \otimes e_6 + \frac{69}{1261}\sqrt{130}e^1 \otimes e_4$	{125679, 169, 2456, 467}
931:71	$0, 0, 0, 0, 0, 0, \frac{14}{541}\sqrt{97}e^{12}, \frac{7}{541}\sqrt{194}e^{14} + \frac{7}{541}\sqrt{622}e^{25} + \frac{14}{541}\sqrt{97}e^{36},$ $\frac{7}{541}\sqrt{766}e^{13} + \frac{7}{541}\sqrt{246}e^{27}$	$(-\frac{77}{541}, \frac{21}{541}, \frac{42}{541}, \frac{112}{541}, \frac{14}{541}, -\frac{7}{541}, -\frac{56}{541}, \frac{35}{541}, -\frac{35}{541})$ $+ \frac{14}{541}\sqrt{155}e^5 \otimes e_9 + \frac{84}{541}\sqrt{3}e^3 \otimes e_6$	{169, 2456}
931:71	$0, 0, 0, 0, 0, 0, \frac{2}{29}\sqrt{85}e^{12}, \frac{1}{29}\sqrt{170}e^{14} + \frac{1}{29}\sqrt{646}e^{25} + \frac{2}{29}\sqrt{85}e^{36},$ $\frac{1}{29}\sqrt{646}e^{13} + \frac{1}{29}\sqrt{102}e^{27}$	$(-\frac{1}{29}, -\frac{3}{29}, -\frac{6}{29}, \frac{8}{29}, \frac{10}{29}, \frac{13}{29}, -\frac{4}{29}, \frac{7}{29}, -\frac{7}{29})$ $+ \frac{2}{29}\sqrt{221}e^5 \otimes e_9$	{124789, 169, 2456, 578}
931:71	$0, 0, 0, 0, 0, 0, \frac{22}{445}\sqrt{31}e^{12}, \frac{11}{445}\sqrt{166}e^{14} + \frac{11}{445}\sqrt{402}e^{25} + \frac{22}{445}\sqrt{57}e^{36},$ $\frac{11}{445}\sqrt{506}e^{13} + \frac{11}{445}\sqrt{110}e^{27}$	$(\frac{77}{445}, -\frac{11}{89}, -\frac{22}{89}, -\frac{44}{445}, \frac{88}{445}, \frac{143}{445}, \frac{22}{445}, \frac{33}{445}, -\frac{33}{445})$ $+ \frac{22}{445}\sqrt{130}e^5 \otimes e_9 + \frac{44}{445}\sqrt{78}e^1 \otimes e_4$	{169, 2456}
931:71	$0, 0, 0, 0, 0, 0, \frac{86}{4405}\sqrt{421}e^{12},$ $\frac{258}{4405}\sqrt{29}e^{14} + \frac{86}{4405}\sqrt{283}e^{25} + \frac{43}{4405}\sqrt{2018}e^{36}, \frac{129}{4405}\sqrt{166}e^{13} + \frac{43}{4405}\sqrt{1670}e^{27}$	$(\frac{1118}{4405}, -\frac{129}{881}, -\frac{258}{881}, -\frac{731}{4405}, \frac{1032}{4405}, \frac{1677}{4405}, \frac{473}{4405}, \frac{387}{4405}, -\frac{172}{4405})$ $+ \frac{129}{4405}\sqrt{382}e^1 \otimes e_4 + \frac{86}{4405}\sqrt{1110}e^6 \otimes e_9$	{129, 1579}
931:73	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{2405}e^{12}, \frac{1}{121}\sqrt{2553}e^{13} + \frac{1}{121}\sqrt{7030}e^{24},$ $\frac{5}{121}\sqrt{259}e^{15} + \frac{1}{121}\sqrt{11026}e^{27} + \frac{3}{121}\sqrt{185}e^{36}$	$(-\frac{97}{484}, \frac{29}{121}, \frac{3}{44}, -\frac{45}{121}, \frac{58}{121}, \frac{51}{242}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{1}{121}\sqrt{15799}e^2 \otimes e_4$	{123569, 1345679, 2567, 456}
931:73	$0, 0, 0, 0, 0, 0, \frac{598}{1581}e^{12}, \frac{23}{1581}\sqrt{1554}e^{13} + \frac{23}{1581}\sqrt{938}e^{24},$ $\frac{46}{1581}\sqrt{197}e^{15} + \frac{46}{1581}\sqrt{199}e^{27} + \frac{115}{527}\sqrt{2}e^{36}$	$(\frac{69}{527}, -\frac{161}{1581}, \frac{69}{527}, \frac{575}{1581}, -\frac{322}{1581}, -\frac{322}{1581}, \frac{46}{1581}, \frac{138}{527}, -\frac{115}{1581})$ $- \frac{23}{1581}\sqrt{1306}e^3 \otimes e_6 + \frac{46}{1581}\sqrt{411}e^1 \otimes e_5$	{234578, 2567, 358, 456}
931:73	$0, 0, 0, 0, 0, 0, \frac{82}{4549}\sqrt{571}e^{12}, \frac{41}{4549}\sqrt{2478}e^{13} + \frac{41}{4549}\sqrt{2354}e^{24},$ $\frac{41}{4549}\sqrt{2734}e^{15} + \frac{287}{4549}\sqrt{22}e^{27} + \frac{82}{4549}\sqrt{285}e^{36}$	$(-\frac{1107}{4549}, \frac{861}{4549}, \frac{1148}{4549}, -\frac{820}{4549}, \frac{1722}{4549}, -\frac{533}{4549}, -\frac{246}{4549}, \frac{41}{4549}, \frac{615}{4549})$ $+ \frac{82}{4549}\sqrt{1366}e^5 \otimes e_8 + \frac{82}{4549}\sqrt{730}e^3 \otimes e_6$	{238, 3478}
931:73	$0, 0, 0, 0, 0, 0, \frac{10}{233}\sqrt{55}e^{12}, \frac{25}{233}\sqrt{22}e^{13} + \frac{15}{233}\sqrt{110}e^{24},$ $\frac{5}{233}\sqrt{770}e^{15} + \frac{5}{233}\sqrt{110}e^{27} + \frac{10}{233}\sqrt{165}e^{36}$	$(\frac{55}{233}, -\frac{35}{233}, \frac{20}{233}, \frac{110}{233}, -\frac{70}{233}, -\frac{35}{233}, \frac{20}{233}, \frac{75}{233}, -\frac{15}{233})$ $+ \frac{10}{233}\sqrt{445}e^4 \otimes e_9 + \frac{20}{233}\sqrt{15}e^1 \otimes e_5$	{123789, 169}
931:73	$0, 0, 0, 0, 0, 0, \frac{82}{4549}\sqrt{795}e^{12}, \frac{41}{4549}\sqrt{2478}e^{13} + \frac{41}{4549}\sqrt{3110}e^{24},$ $\frac{41}{4549}\sqrt{2730}e^{15} + \frac{41}{4549}\sqrt{4386}e^{27} + \frac{82}{4549}\sqrt{285}e^{36}$	$(-\frac{1107}{4549}, \frac{861}{4549}, \frac{1148}{4549}, -\frac{820}{4549}, \frac{1722}{4549}, -\frac{533}{4549}, -\frac{246}{4549}, \frac{41}{4549}, \frac{615}{4549})$ $+ \frac{82}{4549}\sqrt{1366}e^2 \otimes e_4 + \frac{82}{4549}\sqrt{730}e^3 \otimes e_6$	{2567, 456}
931:73	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{6179}e^{12}, \frac{1}{121}\sqrt{2553}e^{13} + \frac{1}{121}\sqrt{8769}e^{24},$ $\frac{6}{121}\sqrt{259}e^{15} + \frac{1}{121}\sqrt{4773}e^{27} + \frac{1}{121}\sqrt{185}e^{36}$	$(-\frac{97}{484}, \frac{29}{121}, \frac{3}{44}, -\frac{45}{121}, \frac{58}{121}, \frac{51}{242}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{1}{121}\sqrt{15799}e^5 \otimes e_8$	{12789, 1489, 238, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:73	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{42195}e^{12}, \frac{1}{247}\sqrt{47415}e^{13} + \frac{1}{494}\sqrt{140070}e^{24},$ $\frac{145}{494}\sqrt{6}e^{15} + \frac{1}{494}\sqrt{123105}e^{27} + \frac{6}{247}\sqrt{290}e^{36}$	$(\frac{227}{494}, -\frac{4}{19}, -\frac{199}{988}, \frac{463}{988}, -\frac{8}{19}, \frac{237}{988}, \frac{123}{494}, \frac{255}{988}, \frac{1}{26})$ $+ \frac{11}{494}\sqrt{3045}e^1 \otimes e_5$	{234578, 2567, 358, 456}
931:73	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{74}e^{12}, \frac{2}{41}\sqrt{481}e^{13} + \frac{2}{123}\sqrt{1517}e^{24},$ $\frac{1}{123}\sqrt{4514}e^{15} + \frac{1}{123}\sqrt{7030}e^{27} + \frac{1}{41}\sqrt{518}e^{36}$	$(-\frac{15}{82}, \frac{35}{246}, \frac{107}{164}, \frac{161}{492}, \frac{35}{123}, -\frac{271}{492}, -\frac{5}{123}, \frac{77}{164}, \frac{25}{246})$ $+ \frac{1}{123}\sqrt{30562}e^3 \otimes e_6$	{1237, 124678, 134, 168}
931:73	$0, 0, 0, 0, 0, 0, \frac{14}{5125}\sqrt{727}e^{12}, \frac{7}{5125}\sqrt{1162}e^{13} + \frac{7}{5125}\sqrt{5466}e^{24},$ $\frac{133}{5125}\sqrt{14}e^{15} + \frac{7}{5125}\sqrt{2078}e^{27} + \frac{14}{5125}\sqrt{309}e^{36}$	$(-\frac{7}{205}, \frac{77}{5125}, \frac{56}{1025}, \frac{28}{5125}, \frac{154}{5125}, -\frac{301}{5125}, -\frac{98}{1025}, \frac{21}{1025}, -\frac{21}{5125})$ $+ \frac{14}{5125}\sqrt{1182}e^5 \otimes e_8 + \frac{14}{5125}\sqrt{1222}e^4 \otimes e_9$	{123789, 478}
931:73	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{185}e^{12}, \frac{1}{73}\sqrt{962}e^{13} + \frac{1}{73}\sqrt{2146}e^{24},$ $\frac{1}{73}\sqrt{1702}e^{15} + \frac{1}{73}\sqrt{222}e^{27} + \frac{6}{73}\sqrt{37}e^{36}$	$(\frac{9}{73}, -\frac{7}{73}, \frac{16}{73}, \frac{32}{73}, -\frac{14}{73}, -\frac{21}{73}, \frac{2}{73}, \frac{25}{73}, -\frac{5}{73})$ $+ \frac{2}{73}\sqrt{222}e^3 \otimes e_6 + \frac{2}{73}\sqrt{962}e^4 \otimes e_9$	{123789, 169}
931:73	$0, 0, 0, 0, 0, 0, \frac{38}{5869}\sqrt{1455}e^{12}, \frac{19}{5869}\sqrt{3458}e^{13} + \frac{19}{5869}\sqrt{4830}e^{24},$ $\frac{95}{5869}\sqrt{174}e^{15} + \frac{19}{5869}\sqrt{5786}e^{27} + \frac{228}{5869}\sqrt{10}e^{36}$	$(\frac{323}{5869}, -\frac{19}{5869}, -\frac{722}{5869}, -\frac{380}{5869}, -\frac{38}{5869}, \frac{1007}{5869}, \frac{304}{5869}, -\frac{399}{5869}, \frac{285}{5869})$ $+ \frac{38}{5869}\sqrt{1541}e^2 \otimes e_4 + \frac{950}{5869}\sqrt{2}e^1 \otimes e_5$	{2567, 456}
931:73	$0, 0, 0, 0, 0, 0, \frac{24}{905}\sqrt{51}e^{12}, \frac{8}{905}\sqrt{393}e^{13} + \frac{8}{905}\sqrt{1338}e^{24},$ $\frac{144}{905}\sqrt{2}e^{15} + \frac{8}{905}\sqrt{447}e^{27} + \frac{8}{905}\sqrt{969}e^{36}$	$(\frac{28}{181}, -\frac{72}{905}, -\frac{24}{181}, \frac{92}{905}, -\frac{144}{905}, \frac{116}{905}, \frac{68}{905}, \frac{4}{181}, -\frac{4}{905})$ $- \frac{8}{905}\sqrt{1101}e^6 \otimes e_8 + \frac{8}{905}\sqrt{1398}e^4 \otimes e_9$	{123789, 169, 2346, 478}
931:73	$0, 0, 0, 0, 0, 0, \frac{24}{905}\sqrt{51}e^{12}, \frac{8}{905}\sqrt{393}e^{13} + \frac{8}{905}\sqrt{1338}e^{24},$ $\frac{144}{905}\sqrt{2}e^{15} + \frac{8}{905}\sqrt{447}e^{27} + \frac{8}{905}\sqrt{969}e^{36}$	$(\frac{28}{181}, -\frac{72}{905}, -\frac{24}{181}, \frac{92}{905}, -\frac{144}{905}, \frac{116}{905}, \frac{68}{905}, \frac{4}{181}, -\frac{4}{905})$ $+ \frac{8}{905}\sqrt{1101}e^6 \otimes e_8 + \frac{8}{905}\sqrt{1398}e^4 \otimes e_9$	{123789, 169, 2346, 478}
931:73	$0, 0, 0, 0, 0, 0, \frac{6}{341}\sqrt{555}e^{12}, \frac{37}{341}\sqrt{30}e^{13} + \frac{1}{341}\sqrt{66230}e^{24},$ $\frac{1}{341}\sqrt{52170}e^{15} + \frac{1}{341}\sqrt{11470}e^{27} + \frac{2}{341}\sqrt{10545}e^{36}$	$(\frac{71}{341}, -\frac{47}{341}, \frac{4}{31}, \frac{162}{341}, -\frac{94}{341}, -\frac{67}{341}, \frac{24}{341}, \frac{115}{341}, -\frac{23}{341})$ $+ \frac{14}{341}\sqrt{555}e^4 \otimes e_9$	{123789, 169, 2346, 478}
931:73	$0, 0, 0, 0, 0, 0, \frac{598}{1581}e^{12}, \frac{23}{1581}\sqrt{1554}e^{13} + \frac{23}{1581}\sqrt{938}e^{24},$ $\frac{46}{1581}\sqrt{197}e^{15} + \frac{46}{1581}\sqrt{199}e^{27} + \frac{115}{527}\sqrt{2}e^{36}$	$(\frac{69}{527}, -\frac{161}{1581}, \frac{69}{527}, \frac{575}{1581}, -\frac{322}{1581}, -\frac{322}{1581}, \frac{46}{1581}, \frac{138}{527}, -\frac{115}{1581})$ $+ \frac{23}{1581}\sqrt{1306}e^3 \otimes e_6 + \frac{46}{1581}\sqrt{411}e^1 \otimes e_5$	{234578, 2567, 358, 456}
931:74	$0, 0, 0, 0, 0, 0, \frac{186}{2761}\sqrt{15}e^{12}, \frac{124}{2761}\sqrt{134}e^{13} + \frac{310}{2761}\sqrt{41}e^{24},$ $\frac{62}{2761}\sqrt{802}e^{17} + \frac{62}{2761}\sqrt{357}e^{23} + \frac{62}{2761}\sqrt{534}e^{56}$	$(\frac{310}{2761}, -\frac{806}{2761}, \frac{620}{2761}, \frac{1736}{2761}, -\frac{93}{2761}, -\frac{93}{2761}, -\frac{496}{2761}, \frac{930}{2761}, -\frac{186}{2761})$ $+ \frac{248}{2761}\sqrt{145}e^4 \otimes e_9$	{234, 23456, 3579}
931:74	$0, 0, 0, 0, 0, 0, \frac{93}{1861}\sqrt{15}e^{12}, \frac{62}{1861}\sqrt{134}e^{13} + \frac{155}{1861}\sqrt{41}e^{24},$ $\frac{31}{1861}\sqrt{802}e^{17} + \frac{31}{1861}\sqrt{357}e^{23} + \frac{31}{1861}\sqrt{534}e^{56}$	$(\frac{155}{1861}, -\frac{403}{1861}, \frac{310}{1861}, \frac{868}{1861}, \frac{434}{1861}, -\frac{527}{1861}, -\frac{248}{1861}, \frac{465}{1861}, -\frac{93}{1861})$ $+ \frac{124}{1861}\sqrt{145}e^4 \otimes e_9 + \frac{961}{1861}e^5 \otimes e_6$	{3579, 3679}
931:74	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{222}e^{12}, \frac{1}{73}\sqrt{1702}e^{13} + \frac{6}{73}\sqrt{37}e^{24},$ $\frac{2}{73}\sqrt{185}e^{17} + \frac{2}{73}\sqrt{222}e^{23} + \frac{2}{73}\sqrt{518}e^{56}$	$(-\frac{1}{73}, \frac{17}{73}, -\frac{2}{73}, -\frac{20}{73}, \frac{34}{73}, -\frac{19}{73}, \frac{16}{73}, -\frac{3}{73}, \frac{15}{73})$ $+ \frac{1}{73}\sqrt{3922}e^5 \otimes e_8 + \frac{1}{73}\sqrt{814}e^2 \otimes e_4$	{23689, 3478}
931:74	$0, 0, 0, 0, 0, 0, \frac{37}{1981}\sqrt{785}e^{12}, \frac{74}{1981}\sqrt{78}e^{13} + \frac{37}{1981}\sqrt{311}e^{24},$ $\frac{37}{1981}\sqrt{2}e^{17} + \frac{37}{1981}\sqrt{861}e^{23} + \frac{37}{1981}\sqrt{154}e^{56}$	$(-\frac{37}{1981}, \frac{629}{1981}, -\frac{74}{1981}, -\frac{740}{1981}, \frac{962}{1981}, -\frac{407}{1981}, \frac{592}{1981}, -\frac{111}{1981}, \frac{555}{1981})$ $+ \frac{1369}{1981}e^5 \otimes e_6 + \frac{148}{1981}\sqrt{137}e^2 \otimes e_4$	{1457, 1467}
931:74	$0, 0, 0, 0, 0, 0, \frac{62}{5893}\sqrt{295}e^{12}, \frac{31}{5893}\sqrt{1554}e^{13} + \frac{248}{5893}\sqrt{65}e^{24},$ $\frac{31}{5893}\sqrt{422}e^{17} + \frac{62}{5893}\sqrt{267}e^{23} + \frac{124}{5893}\sqrt{259}e^{56}$	$(\frac{155}{5893}, -\frac{403}{5893}, \frac{310}{5893}, \frac{868}{5893}, \frac{1426}{5893}, -\frac{1519}{5893}, -\frac{248}{5893}, \frac{465}{5893}, -\frac{93}{5893})$ $+ \frac{31}{5893}\sqrt{4790}e^4 \otimes e_9 + \frac{31}{5893}\sqrt{5890}e^5 \otimes e_8$	{2456, 579}
931:74	$0, 0, 0, 0, 0, 0, \frac{74}{2593}\sqrt{785}e^{12}, \frac{148}{2593}\sqrt{78}e^{13} + \frac{74}{2593}\sqrt{311}e^{24},$ $\frac{74}{2593}\sqrt{2}e^{17} + \frac{74}{2593}\sqrt{861}e^{23} + \frac{74}{2593}\sqrt{154}e^{56}$	$(-\frac{74}{2593}, \frac{1258}{2593}, -\frac{148}{2593}, -\frac{1480}{2593}, \frac{555}{2593}, \frac{555}{2593}, \frac{1184}{2593}, -\frac{222}{2593}, \frac{1110}{2593})$ $+ \frac{296}{2593}\sqrt{137}e^2 \otimes e_4$	{12569, 129, 1457}
931:74	$0, 0, 0, 0, 0, 0, \frac{3}{167}\sqrt{445}e^{12}, \frac{2}{167}\sqrt{534}e^{13} + \frac{3}{167}\sqrt{445}e^{24},$ $\frac{1}{167}\sqrt{3738}e^{17} + \frac{1}{167}\sqrt{267}e^{23} + \frac{3}{167}\sqrt{534}e^{56}$	$(\frac{15}{167}, \frac{19}{167}, \frac{30}{167}, \frac{26}{167}, \frac{158}{167}, -\frac{109}{167}, \frac{34}{167}, \frac{45}{167}, \frac{49}{167})$ $+ \frac{267}{167}e^5 \otimes e_6$	{123459, 123469, 235789, 236789}
931:74	$0, 0, 0, 0, 0, 0, \frac{2}{2653}\sqrt{203870}e^{12}, \frac{8}{2653}\sqrt{47101}e^{13} + \frac{4}{2653}\sqrt{151145}e^{24},$ $\frac{4}{2653}\sqrt{74518}e^{17} + \frac{2}{2653}\sqrt{498427}e^{23} + \frac{2}{2653}\sqrt{887186}e^{56}$	$(-\frac{5}{2653}, \frac{492}{2653}, -\frac{10}{2653}, -\frac{507}{2653}, \frac{1391}{2653}, -\frac{909}{2653}, \frac{487}{2653}, -\frac{15}{2653}, \frac{482}{2653})$ $+ \frac{20}{2653}\sqrt{16169}e^5 \otimes e_8$	{1234579, 1356, 23689, 3478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{496}\sqrt{11134}e^{12}, \frac{5}{496}\sqrt{4102}e^{13} + \frac{1}{496}\sqrt{134194}e^{24},$ $\frac{1}{496}\sqrt{103429}e^{17} + \frac{1}{496}\sqrt{20510}e^{25} + \frac{1}{496}\sqrt{103429}e^{36}$	$(\frac{111}{992}, -\frac{137}{496}, \frac{149}{992}, \frac{267}{496}, \frac{111}{496}, -\frac{201}{992}, -\frac{163}{992}, \frac{65}{248}, -\frac{13}{248})$ $+ \frac{1}{248}\sqrt{61530}e^4 \otimes e_9$	{123589, 1345678, 256789, 458}
931:75	$0, 0, 0, 0, 0, 0, \frac{4}{121}\sqrt{101}e^{12}, \frac{1}{121}\sqrt{3434}e^{13} + \frac{1}{121}\sqrt{8686}e^{24},$ $\frac{4}{121}\sqrt{101}e^{17} + \frac{1}{121}\sqrt{3434}e^{25} + \frac{1}{121}\sqrt{8686}e^{36}$	$(\frac{18}{121}, \frac{1}{121}, -\frac{41}{121}, -\frac{24}{121}, \frac{36}{121}, \frac{78}{121}, \frac{19}{121}, -\frac{23}{121}, \frac{37}{121})$ $+ \frac{2}{121}\sqrt{5151}e^6 \otimes e_8$	{1356, 1458, 23589, 24569}
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{40}\sqrt{1147}e^{12}, \frac{1}{40}\sqrt{1054}e^{13} + \frac{1}{40}\sqrt{1147}e^{24},$ $\frac{1}{20}\sqrt{155}e^{17} + \frac{1}{40}\sqrt{1054}e^{25} + \frac{1}{20}\sqrt{155}e^{36}$	$(-\frac{11}{80}, \frac{1}{2}, \frac{13}{40}, -\frac{5}{16}, -\frac{11}{40}, -\frac{1}{10}, \frac{29}{80}, \frac{3}{16}, \frac{9}{40})$ $+ \frac{1}{20}\sqrt{527}e^2 \otimes e_5$	{1345678, 157, 356, 458}
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{29}e^{12}, \frac{2}{37}\sqrt{13}e^{13} + \frac{1}{111}\sqrt{57}e^{24},$ $\frac{1}{111}\sqrt{210}e^{17} + \frac{1}{37}\sqrt{43}e^{25} + \frac{1}{111}\sqrt{210}e^{36}$	$(\frac{1}{37}, -\frac{3}{37}, 0, \frac{4}{37}, \frac{2}{37}, -\frac{1}{37}, -\frac{2}{37}, \frac{1}{37}, -\frac{1}{37})$ $+ \frac{2}{111}\sqrt{102}e^5 \otimes e_8 + \frac{3}{37}\sqrt{3}e^3 \otimes e_6$	{168, 378}
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{472}\sqrt{30031}e^{12}, \frac{1}{472}\sqrt{33594}e^{13} + \frac{1}{118}\sqrt{5090}e^{24},$ $\frac{1}{472}\sqrt{31049}e^{17} + \frac{1}{472}\sqrt{167970}e^{25} + \frac{1}{472}\sqrt{31049}e^{36}$	$(-\frac{89}{944}, \frac{269}{472}, \frac{147}{944}, -\frac{30}{59}, -\frac{89}{472}, \frac{213}{944}, \frac{449}{944}, \frac{29}{472}, \frac{45}{118})$ $+ \frac{3}{236}\sqrt{11198}e^2 \otimes e_4$	{1235, 1345679, 2567, 459}
931:75	$0, 0, 0, 0, 0, 0, \frac{38}{1165}\sqrt{118}e^{12}, \frac{19}{1165}\sqrt{374}e^{13} + \frac{19}{1165}\sqrt{982}e^{24},$ $\frac{38}{233}\sqrt{2}e^{17} + \frac{19}{1165}\sqrt{714}e^{25} + \frac{19}{1165}\sqrt{710}e^{36}$	$(-\frac{38}{1165}, \frac{57}{233}, -\frac{57}{1165}, -\frac{76}{233}, -\frac{76}{1165}, \frac{266}{1165}, \frac{247}{1165}, -\frac{19}{233}, \frac{209}{1165})$ $+ \frac{152}{1165}\sqrt{17}e^2 \otimes e_5 + \frac{38}{1165}\sqrt{255}e^6 \otimes e_8$	{356, 458}
931:75	$0, 0, 0, 0, 0, 0, \frac{90}{3341}\sqrt{94}e^{12}, \frac{45}{3341}\sqrt{778}e^{13} + \frac{45}{3341}\sqrt{886}e^{24},$ $\frac{90}{3341}\sqrt{134}e^{17} + \frac{45}{3341}\sqrt{438}e^{25} + \frac{45}{3341}\sqrt{1190}e^{36}$	$(\frac{90}{3341}, \frac{765}{3341}, -\frac{45}{257}, -\frac{1260}{3341}, \frac{180}{3341}, \frac{1530}{3341}, \frac{855}{3341}, -\frac{495}{3341}, \frac{945}{3341})$ $+ \frac{360}{3341}\sqrt{38}e^2 \otimes e_4 + \frac{90}{3341}\sqrt{863}e^6 \otimes e_8$	{1258, 34589}
931:75	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{8}{7}e^{13} + \frac{2}{7}\sqrt{5}e^{24},$ $\frac{2}{7}\sqrt{5}e^{17} + \frac{4}{7}\sqrt{2}e^{25} + \frac{2}{7}\sqrt{5}e^{36}$	$(-\frac{1}{14}, \frac{3}{14}, \frac{17}{28}, \frac{9}{28}, -\frac{1}{7}, -\frac{15}{28}, \frac{1}{7}, \frac{15}{28}, \frac{1}{14})$ $+ \frac{4}{7}\sqrt{6}e^3 \otimes e_6$	{134, 168, 378, 467}
931:75	$0, 0, 0, 0, 0, 0, \frac{7}{16}\sqrt{2}e^{12}, \frac{1}{16}\sqrt{154}e^{13} + \frac{1}{48}\sqrt{42}e^{24},$ $\frac{1}{48}\sqrt{651}e^{17} + \frac{1}{16}\sqrt{154}e^{25} + \frac{1}{48}\sqrt{651}e^{36}$	$(\frac{5}{32}, -\frac{3}{16}, -\frac{9}{32}, \frac{1}{16}, \frac{5}{32}, \frac{13}{32}, -\frac{1}{32}, -\frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{24}\sqrt{462}e^5 \otimes e_8$	{12789, 1468, 23689, 3478}
931:75	$0, 0, 0, 0, 0, 0, \frac{58}{5165}\sqrt{71}e^{12}, \frac{29}{5165}\sqrt{1462}e^{13} + \frac{29}{5165}\sqrt{4402}e^{24},$ $\frac{58}{5165}\sqrt{415}e^{17} + \frac{29}{5165}\sqrt{1130}e^{25} + \frac{29}{5165}\sqrt{3754}e^{36}$	$(\frac{522}{5165}, -\frac{203}{1033}, -\frac{667}{5165}, \frac{174}{1033}, \frac{1044}{5165}, \frac{696}{5165}, -\frac{493}{5165}, -\frac{29}{1033}, \frac{29}{5165})$ $+ \frac{2088}{5165}e^4 \otimes e_9 + \frac{58}{5165}\sqrt{1047}e^6 \otimes e_8$	{169, 2346}
931:75	$0, 0, 0, 0, 0, 0, \frac{13}{1285}\sqrt{598}e^{12}, \frac{13}{1285}\sqrt{1066}e^{13} + \frac{26}{1285}\sqrt{307}e^{24},$ $\frac{52}{257}\sqrt{2}e^{17} + \frac{13}{1285}\sqrt{646}e^{25} + \frac{52}{257}\sqrt{2}e^{36}$	$(-\frac{52}{1285}, \frac{13}{257}, \frac{247}{1285}, \frac{26}{257}, -\frac{104}{1285}, -\frac{286}{1285}, \frac{13}{1285}, \frac{39}{257}, -\frac{39}{1285})$ $+ \frac{13}{1285}\sqrt{1082}e^2 \otimes e_5 + \frac{78}{1285}\sqrt{35}e^4 \otimes e_9$	{1345678, 458}
931:75	$0, 0, 0, 0, 0, 0, \frac{13}{301}\sqrt{15}e^{12}, \frac{26}{301}\sqrt{51}e^{13} + \frac{65}{301}\sqrt{5}e^{24},$ $\frac{39}{301}\sqrt{10}e^{17} + \frac{39}{301}\sqrt{23}e^{25} + \frac{39}{301}\sqrt{10}e^{36}$	$(-\frac{39}{301}, \frac{117}{301}, \frac{104}{301}, -\frac{52}{301}, -\frac{78}{301}, -\frac{65}{301}, \frac{78}{301}, \frac{65}{301}, \frac{39}{301})$ $+ \frac{13}{301}\sqrt{271}e^3 \otimes e_6 + \frac{26}{301}\sqrt{70}e^2 \otimes e_4$	{1235, 2567}
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{2}e^{12}, \frac{1}{4}\sqrt{2}e^{13} + \frac{1}{12}\sqrt{15}e^{24},$ $\frac{1}{12}\sqrt{3}e^{17} + \frac{1}{4}\sqrt{3}e^{25} + \frac{1}{12}\sqrt{3}e^{36}$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{39}e^5 \otimes e_8 + \frac{1}{4}\sqrt{3}e^4 \otimes e_9$	{12789, 1468, 23689, 3478}
931:75	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{2}e^{12}, \frac{1}{4}\sqrt{2}e^{13} + \frac{1}{12}\sqrt{15}e^{24},$ $\frac{1}{12}\sqrt{3}e^{17} + \frac{1}{4}\sqrt{3}e^{25} + \frac{1}{12}\sqrt{3}e^{36}$	$(\frac{1}{8}, -\frac{1}{4}, -\frac{1}{8}, \frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, 0, 0)$ $- \frac{1}{12}\sqrt{39}e^5 \otimes e_8 + \frac{1}{4}\sqrt{3}e^4 \otimes e_9$	{12789, 1468, 23689, 3478}
931:75	$0, 0, 0, 0, 0, 0, \frac{9}{149}\sqrt{5}e^{12}, \frac{18}{149}\sqrt{11}e^{13} + \frac{9}{149}\sqrt{95}e^{24},$ $\frac{9}{149}\sqrt{70}e^{17} + \frac{9}{149}\sqrt{3}e^{25} + \frac{9}{149}\sqrt{70}e^{36}$	$(\frac{9}{149}, -\frac{27}{149}, \frac{36}{149}, \frac{72}{149}, \frac{18}{149}, -\frac{45}{149}, -\frac{18}{149}, \frac{45}{149}, -\frac{9}{149})$ $+ \frac{90}{149}\sqrt{2}e^4 \otimes e_9 + \frac{9}{149}\sqrt{59}e^3 \otimes e_6$	{1569, 3579}
931:76	$0, 0, 0, 0, 0, 0, \frac{7}{209}\sqrt{130}e^{12}, \frac{35}{209}\sqrt{10}e^{14} + \frac{14}{209}\sqrt{110}e^{23} + \frac{7}{209}\sqrt{310}e^{56},$ $\frac{35}{209}\sqrt{10}e^{13} + \frac{7}{209}\sqrt{310}e^{27} + \frac{7}{209}\sqrt{1070}e^{45}$	$(\frac{70}{209}, \frac{7}{209}, \frac{14}{209}, -\frac{49}{209}, \frac{7}{11}, -\frac{112}{209}, \frac{7}{19}, \frac{21}{209}, \frac{84}{209})$ $+ \frac{28}{209}\sqrt{110}e^5 \otimes e_6$	{167, 469}
931:76	$0, 0, 0, 0, 0, 0, \frac{98}{4453}\sqrt{197}e^{12},$ $\frac{98}{4453}\sqrt{346}e^{14} + \frac{245}{4453}\sqrt{114}e^{23} + \frac{49}{4453}\sqrt{4398}e^{56},$ $\frac{98}{4453}\sqrt{794}e^{13} + \frac{49}{4453}\sqrt{2878}e^{27} + \frac{147}{4453}\sqrt{6}e^{45}$	$(-\frac{637}{4453}, \frac{245}{4453}, \frac{490}{4453}, \frac{1372}{4453}, -\frac{1519}{4453}, \frac{2254}{4453}, -\frac{392}{4453}, \frac{735}{4453}, -\frac{147}{4453})$ $+ \frac{980}{4453}\sqrt{19}e^6 \otimes e_9$	{129, 145789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:77	$0, 0, 0, 0, 0, 0, \frac{120}{193}\sqrt{2}e^{12}, \frac{16}{193}\sqrt{15}e^{14} + \frac{112}{193}\sqrt{3}e^{25} + \frac{120}{193}\sqrt{2}e^{36},$ $\frac{48}{193}\sqrt{26}e^{13} + \frac{48}{193}\sqrt{10}e^{27} + \frac{8}{193}\sqrt{330}e^{45}$	$(-\frac{52}{193}, \frac{56}{193}, \frac{112}{193}, \frac{84}{193}, -\frac{24}{193}, -\frac{80}{193}, \frac{4}{193}, \frac{32}{193}, \frac{60}{193})$ $+ \frac{48}{193}\sqrt{29}e^3 \otimes e_6$	{169, 467}
931:77	$0, 0, 0, 0, 0, 0, \frac{6}{95}\sqrt{65}e^{12}, \frac{4}{95}\sqrt{3}e^{14} + \frac{2}{95}\sqrt{33}e^{25} + \frac{6}{95}\sqrt{110}e^{36},$ $\frac{4}{95}\sqrt{105}e^{13} + \frac{6}{95}\sqrt{70}e^{27} + \frac{4}{95}\sqrt{195}e^{45}$	$(\frac{23}{95}, -\frac{12}{95}, -\frac{24}{95}, -\frac{18}{95}, \frac{17}{95}, \frac{29}{95}, \frac{11}{95}, \frac{1}{95}, -\frac{1}{95})$ $+ \frac{18}{95}\sqrt{15}e^6 \otimes e_9$	{134789, 3456}
931:78	$0, 0, 0, 0, 0, 0, \frac{110}{733}\sqrt{11}e^{12},$ $\frac{11}{733}\sqrt{246}e^{14} + \frac{11}{733}\sqrt{1110}e^{26} + \frac{22}{733}\sqrt{199}e^{35},$ $-\frac{11}{733}\sqrt{970}e^{13} + \frac{11}{733}\sqrt{1322}e^{27} + \frac{22}{733}\sqrt{105}e^{45}$	$(-\frac{121}{733}, \frac{77}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{121}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{66}{733}\sqrt{37}e^2 \otimes e_6$	{123459, 1345679, 2357, 356, 123459, 1345679, 2357, 356}
931:78	$0, 0, 0, 0, 0, 0, \frac{110}{733}\sqrt{11}e^{12},$ $\frac{11}{733}\sqrt{246}e^{14} + \frac{11}{733}\sqrt{1110}e^{26} + \frac{22}{733}\sqrt{199}e^{35},$ $\frac{11}{733}\sqrt{970}e^{13} + \frac{11}{733}\sqrt{1322}e^{27} + \frac{22}{733}\sqrt{105}e^{45}$	$(-\frac{121}{733}, \frac{77}{733}, \frac{154}{733}, \frac{154}{733}, -\frac{121}{733}, -\frac{44}{733}, -\frac{44}{733}, \frac{33}{733}, \frac{33}{733})$ $+ \frac{66}{733}\sqrt{37}e^2 \otimes e_6$	{123459, 1345679, 2357, 356, 123459, 1345679, 2357, 356}
931:78	$0, 0, 0, 0, 0, 0, \frac{4}{19}e^{12}, \frac{1}{19}\sqrt{15}e^{14} + \frac{6}{19}e^{26} + \frac{1}{19}\sqrt{23}e^{35},$ $-\frac{1}{19}\sqrt{29}e^{13} + \frac{4}{19}e^{27} + \frac{1}{19}\sqrt{21}e^{45}$	$(\frac{2}{19}, -\frac{1}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{2}{19}, \frac{1}{19}, \frac{1}{19}, 0, 0)$ $+ \frac{6}{19}e^6 \otimes e_9$	{124789, 159, 2456, 678, 124789, 159, 2456, 678}
931:78	$0, 0, 0, 0, 0, 0, \frac{4}{19}e^{12}, \frac{1}{19}\sqrt{15}e^{14} + \frac{6}{19}e^{26} + \frac{1}{19}\sqrt{23}e^{35},$ $\frac{1}{19}\sqrt{29}e^{13} + \frac{4}{19}e^{27} + \frac{1}{19}\sqrt{21}e^{45}$	$(\frac{2}{19}, -\frac{1}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{2}{19}, \frac{1}{19}, \frac{1}{19}, 0, 0)$ $+ \frac{6}{19}e^6 \otimes e_9$	{124789, 159, 2456, 678, 124789, 159, 2456, 678}
931:79	$0, 0, 0, 0, 0, 0, \frac{118}{3229}\sqrt{395}e^{12},$ $\frac{59}{3229}\sqrt{1086}e^{16} + \frac{59}{3229}\sqrt{498}e^{24} + \frac{118}{3229}\sqrt{23}e^{35},$ $\frac{59}{3229}\sqrt{2306}e^{13} + \frac{59}{3229}\sqrt{454}e^{27} + \frac{118}{3229}\sqrt{102}e^{45}$	$(\frac{1829}{3229}, -\frac{295}{3229}, -\frac{590}{3229}, \frac{472}{3229}, \frac{767}{3229}, -\frac{1652}{3229}, \frac{1534}{3229}, \frac{177}{3229}, \frac{1239}{3229})$ $+ \frac{236}{3229}\sqrt{339}e^1 \otimes e_6$	{1234, 369}
931:79	$0, 0, 0, 0, 0, 0, \frac{86}{3325}\sqrt{31}e^{12},$ $\frac{43}{3325}\sqrt{3210}e^{16} + \frac{43}{3325}\sqrt{1902}e^{24} + \frac{86}{3325}\sqrt{239}e^{35},$ $\frac{43}{3325}\sqrt{2}e^{13} + \frac{43}{3325}\sqrt{2018}e^{27} + \frac{86}{3325}\sqrt{39}e^{45}$	$(-\frac{43}{133}, \frac{473}{3325}, \frac{946}{3325}, \frac{172}{3325}, -\frac{43}{475}, \frac{344}{665}, -\frac{86}{475}, \frac{129}{665}, -\frac{129}{3325})$ $+ \frac{172}{3325}\sqrt{357}e^6 \otimes e_9$	{12367, 3479}
931:80	$0, 0, 0, 0, 0, 0, \frac{3}{227}\sqrt{14}e^{12}, \frac{3}{227}\sqrt{770}e^{13}, \frac{3}{227}\sqrt{742}e^{18} + \frac{6}{227}\sqrt{35}e^{27}$	$(-\frac{2}{227}, \frac{11}{227}, \frac{24}{227}, -\frac{65}{227}, \frac{83}{227}, -\frac{39}{227}, \frac{9}{227}, \frac{22}{227}, \frac{20}{227})$ $+ \frac{3}{227}\sqrt{1190}e^1 \otimes e_4 + \frac{3}{227}\sqrt{826}e^3 \otimes e_6 + \frac{63}{227}\sqrt{2}e^5 \otimes e_9$	{125678, 1568, 23489, 34789}
931:80	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{345}e^{12}, \frac{23}{111}\sqrt{6}e^{13}, \frac{2}{111}\sqrt{690}e^{18} + \frac{1}{37}\sqrt{230}e^{27}$	$(-\frac{20}{111}, \frac{8}{111}, \frac{12}{37}, \frac{65}{111}, -\frac{11}{37}, \frac{13}{111}, -\frac{4}{37}, \frac{16}{111}, -\frac{4}{111})$ $+ \frac{2}{111}\sqrt{1794}e^4 \otimes e_9 + \frac{46}{111}\sqrt{3}e^3 \otimes e_5$	{1245678, 124578, 14568, 1458, 23689, 2389, 36789, 3789}
931:80	$0, 0, 0, 0, 0, 0, \frac{4}{111}\sqrt{89}e^{12}, \frac{2}{111}\sqrt{534}e^{13}, \frac{4}{111}\sqrt{89}e^{18} + \frac{2}{111}\sqrt{534}e^{27}$	$(\frac{8}{111}, \frac{4}{37}, \frac{16}{111}, 1, -\frac{67}{111}, \frac{22}{111}, \frac{20}{111}, \frac{8}{37}, \frac{32}{111})$ $+ \frac{178}{111}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 134679, 13479, 135679, 13579, 2467, 247, 2567, 257, 4, 46, 5, 56}
931:80	$0, 0, 0, 0, 0, 0, \frac{24}{1697}\sqrt{166}e^{12}, \frac{9}{1697}\sqrt{5810}e^{13},$ $\frac{6}{1697}\sqrt{20833}e^{18} + \frac{3}{1697}\sqrt{21082}e^{27}$	$(\frac{128}{1697}, \frac{4}{1697}, -\frac{120}{1697}, \frac{883}{1697}, -\frac{619}{1697}, \frac{195}{1697}, \frac{132}{1697}, \frac{8}{1697}, \frac{136}{1697})$ $+ \frac{12}{1697}\sqrt{7138}e^4 \otimes e_9 + \frac{6}{1697}\sqrt{33781}e^1 \otimes e_5$	{12369, 1239, 13679, 1379, 24567, 2457, 45, 456}
931:80	$0, 0, 0, 0, 0, 0, \frac{2}{311}\sqrt{7030}e^{12}, \frac{1}{311}\sqrt{7770}e^{13},$ $\frac{1}{311}\sqrt{15170}e^{18} + \frac{1}{311}\sqrt{30710}e^{27}$	$(-\frac{20}{311}, \frac{49}{311}, \frac{118}{311}, -\frac{136}{311}, -\frac{67}{311}, \frac{36}{311}, \frac{29}{311}, \frac{98}{311}, \frac{78}{311})$ $+ \frac{1}{311}\sqrt{38110}e^3 \otimes e_5 + \frac{2}{311}\sqrt{15910}e^2 \otimes e_4$	{125689, 12589, 1456789, 145789, 23678, 2378, 3468, 348}
931:80	$0, 0, 0, 0, 0, 0, \frac{8}{449}\sqrt{161}e^{12}, \frac{46}{449}\sqrt{7}e^{13}, \frac{2}{449}\sqrt{12558}e^{18} + \frac{14}{449}\sqrt{230}e^{27}$	$(-\frac{32}{449}, -\frac{1}{449}, \frac{30}{449}, \frac{214}{449}, \frac{288}{449}, -\frac{108}{449}, \frac{33}{449}, -\frac{2}{449}, -\frac{34}{449})$ $+ \frac{2}{449}\sqrt{37835}e^5 \otimes e_9 + \frac{322}{449}e^4 \otimes e_6$	{124578, 125678, 1458, 1568, 23489, 23689, 34789, 36789}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{36}\sqrt{161}e^{12}, \frac{23}{144}\sqrt{7}e^{13}, \frac{1}{144}\sqrt{12558}e^{18} + \frac{7}{144}\sqrt{230}e^{27}$	$(-\frac{1}{9}, -\frac{1}{288}, \frac{5}{48}, 1, \frac{53}{288}, \frac{53}{288}, -\frac{11}{96}, -\frac{1}{144}, -\frac{17}{144})$ $+ \frac{1}{144}\sqrt{37835}e^4 \otimes e_9$	{1245678, 124578, 12478, 14568, 1458, 148, 235689, 23589, 2389, 356789, 35789, 3789}
931:80	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{335}e^{12}, \frac{1}{73}\sqrt{2814}e^{13}, \frac{2}{73}\sqrt{737}e^{18} + \frac{1}{73}\sqrt{402}e^{27}$	$(\frac{20}{73}, \frac{6}{73}, -\frac{8}{73}, -\frac{47}{73}, \frac{13}{73}, \frac{13}{73}, \frac{26}{73}, \frac{12}{73}, \frac{32}{73})$ $+ \frac{2}{73}\sqrt{2010}e^1 \otimes e_4$	{12568, 1258, 128, 15678, 1578, 178, 23456789, 2345789, 234789, 345689, 34589, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{92}\sqrt{1743}e^{12}, \frac{1}{184}\sqrt{1245}e^{13}, \frac{1}{184}\sqrt{830}e^{18} + \frac{3}{184}\sqrt{1162}e^{27}$	$(-\frac{5}{92}, \frac{17}{368}, \frac{27}{184}, \frac{45}{92}, -\frac{149}{368}, \frac{39}{368}, -\frac{3}{368}, \frac{17}{184}, \frac{7}{184})$ $+ \frac{1}{184}\sqrt{11703}e^4 \otimes e_9 + \frac{1}{92}\sqrt{3901}e^2 \otimes e_5$	{123689, 12389, 1356789, 135789, 24678, 2478, 4568, 458}
931:80	$0, 0, 0, 0, 0, 0, \frac{2}{787}\sqrt{57318}e^{12}, \frac{6}{787}\sqrt{1398}e^{13}, \frac{2}{787}\sqrt{30290}e^{18} + \frac{4}{787}\sqrt{13281}e^{27}$	$(\frac{22}{787}, \frac{80}{787}, \frac{138}{787}, \frac{317}{787}, -\frac{386}{787}, -\frac{149}{787}, \frac{102}{787}, \frac{160}{787}, \frac{182}{787})$ $+ \frac{2}{787}\sqrt{109510}e^2 \otimes e_5 + \frac{466}{787}e^4 \otimes e_6$	{123489, 123689, 1345789, 1356789, 2478, 2678, 458, 568}
931:80	$0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{1074}e^{12}, \frac{1}{141}\sqrt{18258}e^{13}, \frac{1}{141}\sqrt{3938}e^{18} + \frac{1}{141}\sqrt{1790}e^{27}$	$(-\frac{8}{47}, \frac{11}{47}, \frac{30}{47}, -\frac{89}{141}, \frac{26}{141}, \frac{26}{141}, \frac{3}{47}, \frac{22}{47}, \frac{14}{47})$ $+ \frac{1}{141}\sqrt{41170}e^3 \otimes e_4$	{1245678, 124578, 12478, 14568, 1458, 148, 235689, 23589, 2389, 356789, 35789, 3789}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{1459}\sqrt{204522}e^{12}, \frac{1}{1459}\sqrt{80430}e^{13}, \frac{1}{1459}\sqrt{111070}e^{18} + \frac{24}{1459}\sqrt{383}e^{27}$	$(\frac{65}{1459}, \frac{46}{1459}, \frac{27}{1459}, -\frac{318}{1459}, \frac{540}{1459}, -\frac{337}{1459}, \frac{111}{1459}, \frac{92}{1459}, \frac{157}{1459})$ $+ \frac{1}{1459}\sqrt{359254}e^2 \otimes e_6 + \frac{30}{1459}\sqrt{383}e^1 \otimes e_4 + \frac{4}{1459}\sqrt{19533}e^5 \otimes e_9$	{1239, 13679, 2457, 456}
931:80	$0, 0, 0, 0, 0, 0, \frac{4}{461}\sqrt{1074}e^{12}, \frac{2}{461}\sqrt{18258}e^{13}, \frac{2}{461}\sqrt{3938}e^{18} + \frac{2}{461}\sqrt{1790}e^{27}$	$(-\frac{48}{461}, \frac{66}{461}, \frac{180}{461}, \frac{231}{461}, -\frac{178}{461}, -\frac{127}{461}, \frac{18}{461}, \frac{132}{461}, \frac{84}{461})$ $+ \frac{2}{461}\sqrt{41170}e^3 \otimes e_5 + \frac{358}{461}e^4 \otimes e_6$	{124578, 125678, 1458, 1568, 23489, 23689, 34789, 36789}
931:80	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{2}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{70}e^{18} + \frac{5}{79}\sqrt{42}e^{27}$	$(\frac{11}{79}, \frac{7}{79}, \frac{3}{79}, -\frac{24}{79}, -\frac{28}{79}, \frac{9}{79}, \frac{18}{79}, \frac{14}{79}, \frac{25}{79})$ $+ \frac{1}{79}\sqrt{2310}e^1 \otimes e_4 + \frac{1}{79}\sqrt{2590}e^2 \otimes e_5$	{12369, 1239, 135679, 13579, 2467, 247, 45, 456}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{424}\sqrt{5763}e^{12}, \frac{3}{424}\sqrt{565}e^{13}, \frac{5}{424}\sqrt{226}e^{18} + \frac{1}{424}\sqrt{21018}e^{27}$	$(\frac{25}{424}, -\frac{13}{848}, -\frac{63}{424}, -\frac{239}{848}, \frac{75}{212}, \frac{69}{848}, \frac{87}{848}, -\frac{13}{424}, \frac{37}{424})$ $+ \frac{1}{106}\sqrt{1695}e^1 \otimes e_3 + \frac{1}{212}\sqrt{8701}e^2 \otimes e_4 + \frac{1}{424}\sqrt{26103}e^5 \otimes e_9$	{1269, 129, 14679, 1479, 23567, 2357, 345, 3456}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{277}\sqrt{57318}e^{12}, \frac{3}{277}\sqrt{1398}e^{13}, \frac{1}{277}\sqrt{30290}e^{18} + \frac{2}{277}\sqrt{13281}e^{27}$	$(\frac{11}{277}, \frac{40}{277}, \frac{69}{277}, -\frac{193}{277}, \frac{42}{277}, \frac{42}{277}, \frac{51}{277}, \frac{80}{277}, \frac{91}{277})$ $+ \frac{1}{277}\sqrt{109510}e^2 \otimes e_4$	{1235689, 123589, 12389, 13456789, 1345789, 134789, 25678, 2578, 278, 4568, 458, 48}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{1443}\sqrt{213962}e^{12}, \frac{1}{1443}\sqrt{81158}e^{13}, \frac{1}{1443}\sqrt{1054}e^{18} + \frac{2}{1443}\sqrt{100130}e^{27}$	$(-\frac{149}{1443}, \frac{8}{111}, \frac{119}{481}, -\frac{141}{481}, \frac{586}{1443}, -\frac{170}{1443}, -\frac{15}{481}, \frac{16}{111}, \frac{59}{1443})$ $+ \frac{1}{1443}\sqrt{584970}e^2 \otimes e_4 + \frac{2}{1443}\sqrt{119629}e^5 \otimes e_9 + \frac{2}{1443}\sqrt{79577}e^3 \otimes e_6$	{1239, 13479, 2567, 456}
931:80	$0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{335}e^{12}, \frac{2}{213}\sqrt{2814}e^{13}, \frac{4}{213}\sqrt{737}e^{18} + \frac{2}{213}\sqrt{402}e^{27}$	$(\frac{40}{213}, \frac{4}{71}, -\frac{16}{213}, \frac{31}{71}, -\frac{94}{213}, -\frac{41}{213}, \frac{52}{213}, \frac{8}{71}, \frac{64}{213})$ $+ \frac{134}{213}e^4 \otimes e_6 + \frac{4}{213}\sqrt{2010}e^1 \otimes e_5$	{1248, 1268, 1478, 1678, 2345789, 2356789, 34589, 35689}
931:80	$0, 0, 0, 0, 0, 0, \frac{1}{424}\sqrt{5763}e^{12}, \frac{3}{424}\sqrt{565}e^{13}, \frac{5}{424}\sqrt{226}e^{18} + \frac{1}{424}\sqrt{21018}e^{27}$	$(\frac{25}{424}, -\frac{13}{848}, -\frac{63}{424}, -\frac{239}{848}, \frac{75}{212}, \frac{69}{848}, \frac{87}{848}, -\frac{13}{424}, \frac{37}{424})$ $- \frac{1}{106}\sqrt{1695}e^1 \otimes e_3 + \frac{1}{212}\sqrt{8701}e^2 \otimes e_4 + \frac{1}{424}\sqrt{26103}e^5 \otimes e_9$	{1269, 129, 14679, 1479, 23567, 2357, 345, 3456}
931:80	$0, 0, 0, 0, 0, 0, \frac{30}{1817}\sqrt{91}e^{12}, \frac{3}{1817}\sqrt{107198}e^{13}, \frac{6}{1817}\sqrt{17017}e^{18} + \frac{3}{1817}\sqrt{10738}e^{27}$	$(\frac{100}{1817}, \frac{206}{1817}, \frac{312}{1817}, -\frac{719}{1817}, \frac{507}{1817}, \frac{197}{1817}, \frac{306}{1817}, \frac{412}{1817}, \frac{512}{1817})$ $+ \frac{24}{1817}\sqrt{2002}e^3 \otimes e_5 + \frac{6}{1817}\sqrt{41678}e^1 \otimes e_4$	{12568, 1258, 15678, 1578, 2346789, 234789, 34689, 3489}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{21}\sqrt{47}e^{12}, \frac{1}{21}\sqrt{47}e^{13}, \frac{1}{42}\sqrt{987}e^{27} + \frac{1}{42}\sqrt{987}e^{38}$	$(\frac{2}{21}, -\frac{3}{28}, -\frac{3}{28}, 1, \frac{4}{21}, \frac{4}{21}, -\frac{1}{84}, -\frac{1}{84}, -\frac{5}{42})$ $+ \frac{1}{21}\sqrt{799}e^4 \otimes e_9$	{123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{47}e^{12}, \frac{1}{21}\sqrt{47}e^{13}, \frac{1}{42}\sqrt{987}e^{27} + \frac{1}{42}\sqrt{987}e^{38}$	$(\frac{2}{21}, -\frac{3}{28}, -\frac{3}{28}, 1, \frac{4}{21}, \frac{4}{21}, -\frac{1}{84}, -\frac{1}{84}, -\frac{5}{42})$ $+ \frac{1}{21}\sqrt{799}e^4 \otimes e_9$	{123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{5}{413}\sqrt{395}e^{12}, \frac{5}{413}\sqrt{395}e^{13}, \frac{5}{59}\sqrt{15}e^{27} + \frac{5}{59}\sqrt{15}e^{38}$	$(-\frac{40}{413}, \frac{45}{413}, \frac{45}{413}, -\frac{80}{413}, \frac{25}{59}, -\frac{80}{413}, \frac{5}{413}, \frac{5}{413}, \frac{50}{413})$ $+ \frac{20}{413}\sqrt{85}e^5 \otimes e_9 + \frac{5}{413}\sqrt{1190}e^2 \otimes e_4 + \frac{5}{413}\sqrt{1190}e^3 \otimes e_6$	{1239, 12689, 146789, 23578, 2567, 456, 1239, 12689, 146789, 23578, 2567, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:81	$0, 0, 0, 0, 0, 0, \frac{5}{413}\sqrt{395}e^{12}, \frac{5}{413}\sqrt{395}e^{13}, \frac{5}{59}\sqrt{15}e^{27} + \frac{5}{59}\sqrt{15}e^{38}$	$(-\frac{40}{413}, \frac{45}{413}, \frac{45}{413}, -\frac{80}{413}, \frac{25}{59}, -\frac{80}{413}, \frac{5}{413}, \frac{5}{413}, \frac{50}{413})$ $+ \frac{20}{413}\sqrt{85}e^5 \otimes e_9 + \frac{5}{413}\sqrt{1190}e^2 \otimes e_4 + \frac{5}{413}\sqrt{1190}e^3 \otimes e_6$	{1239, 12689, 146789, 23578, 2567, 456, 1239, 12689, 146789, 23578, 2567, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{2}{131}\sqrt{987}e^{12}, \frac{2}{131}\sqrt{987}e^{13}, \frac{4}{131}\sqrt{47}e^{27} + \frac{4}{131}\sqrt{47}e^{38}$	$(\frac{42}{131}, -\frac{9}{131}, -\frac{9}{131}, \frac{63}{131}, -\frac{52}{131}, -\frac{31}{131}, \frac{33}{131}, \frac{33}{131}, \frac{24}{131})$ $+ \frac{4}{131}\sqrt{799}e^1 \otimes e_5 + \frac{94}{131}e^4 \otimes e_6$	{12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56, 12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56}
931:81	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{987}e^{12}, \frac{2}{131}\sqrt{987}e^{13}, \frac{4}{131}\sqrt{47}e^{27} + \frac{4}{131}\sqrt{47}e^{38}$	$(\frac{42}{131}, -\frac{9}{131}, -\frac{9}{131}, \frac{63}{131}, -\frac{52}{131}, -\frac{31}{131}, \frac{33}{131}, \frac{33}{131}, \frac{24}{131})$ $+ \frac{4}{131}\sqrt{799}e^1 \otimes e_5 + \frac{94}{131}e^4 \otimes e_6$	{12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56, 12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56}
931:81	$0, 0, 0, 0, 0, 0, -\frac{4}{131}\sqrt{47}e^{12}, \frac{4}{131}\sqrt{47}e^{13}, \frac{2}{131}\sqrt{987}e^{27} + \frac{2}{131}\sqrt{987}e^{38}$	$(\frac{8}{131}, -\frac{9}{131}, -\frac{9}{131}, \frac{63}{131}, \frac{84}{131}, -\frac{31}{131}, -\frac{1}{131}, -\frac{1}{131}, -\frac{10}{131})$ $+ \frac{4}{131}\sqrt{799}e^5 \otimes e_9 + \frac{94}{131}e^4 \otimes e_6$	{12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56, 12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56}
931:81	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{47}e^{12}, \frac{4}{131}\sqrt{47}e^{13}, \frac{2}{131}\sqrt{987}e^{27} + \frac{2}{131}\sqrt{987}e^{38}$	$(\frac{8}{131}, -\frac{9}{131}, -\frac{9}{131}, \frac{63}{131}, \frac{84}{131}, -\frac{31}{131}, -\frac{1}{131}, -\frac{1}{131}, -\frac{10}{131})$ $+ \frac{4}{131}\sqrt{799}e^5 \otimes e_9 + \frac{94}{131}e^4 \otimes e_6$	{12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56, 12349, 12369, 12489, 12689, 14789, 16789, 234578, 235678, 2457, 2567, 45, 56}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{42}\sqrt{987}e^{12}, \frac{1}{42}\sqrt{987}e^{13}, \frac{1}{21}\sqrt{47}e^{27} + \frac{1}{21}\sqrt{47}e^{38}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{3}{28}, -\frac{13}{21}, \frac{4}{21}, \frac{4}{21}, \frac{11}{28}, \frac{11}{28}, \frac{2}{7})$ $+ \frac{1}{21}\sqrt{799}e^1 \otimes e_4$	{123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{42}\sqrt{987}e^{12}, \frac{1}{42}\sqrt{987}e^{13}, \frac{1}{21}\sqrt{47}e^{27} + \frac{1}{21}\sqrt{47}e^{38}$	$(\frac{1}{2}, -\frac{3}{28}, -\frac{3}{28}, -\frac{13}{21}, \frac{4}{21}, \frac{4}{21}, \frac{11}{28}, \frac{11}{28}, \frac{2}{7})$ $+ \frac{1}{21}\sqrt{799}e^1 \otimes e_4$	{123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 123569, 12359, 1239, 125689, 12589, 1289, 156789, 15789, 1789, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{41}\sqrt{1131}e^{12}, \frac{1}{41}\sqrt{195}e^{13}, \frac{1}{41}\sqrt{1131}e^{27} + \frac{1}{41}\sqrt{195}e^{38}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{27}{41}, \frac{7}{41}, \frac{7}{41}, \frac{7}{41}, \frac{7}{41}, \frac{19}{41})$ $+ \frac{2}{41}\sqrt{663}e^2 \otimes e_4$	{1235689, 123589, 12389, 12569, 1259, 129, 13456789, 1345789, 134789, 145679, 14579, 1479, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48, 1235689, 123589, 12389, 12569, 1259, 129, 13456789, 1345789, 134789, 145679, 14579, 1479, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{1131}e^{12}, \frac{1}{41}\sqrt{195}e^{13}, \frac{1}{41}\sqrt{1131}e^{27} + \frac{1}{41}\sqrt{195}e^{38}$	$(-\frac{5}{41}, \frac{12}{41}, \frac{12}{41}, -\frac{27}{41}, \frac{7}{41}, \frac{7}{41}, \frac{7}{41}, \frac{7}{41}, \frac{19}{41})$ $+ \frac{2}{41}\sqrt{663}e^2 \otimes e_4$	{1235689, 123589, 12389, 12569, 1259, 129, 13456789, 1345789, 134789, 145679, 14579, 1479, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48, 1235689, 123589, 12389, 12569, 1259, 129, 13456789, 1345789, 134789, 145679, 14579, 1479, 23567, 2357, 237, 25678, 2578, 278, 34, 345, 3456, 4568, 458, 48}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:81	$0, 0, 0, 0, 0, 0, -\frac{2}{121}\sqrt{1131}e^{12}, \frac{2}{121}\sqrt{195}e^{13}, \frac{2}{121}\sqrt{1131}e^{27} + \frac{2}{121}\sqrt{195}e^{38}$	$(-\frac{10}{121}, \frac{24}{121}, \frac{24}{121}, \frac{53}{121}, -\frac{54}{121}, -\frac{25}{121}, \frac{14}{121}, \frac{14}{121}, \frac{38}{121}) + \frac{4}{121}\sqrt{663}e^2 \otimes e_5 + \frac{78}{121}e^4 \otimes e_6$	{123489, 123689, 1249, 1269, 1345789, 1356789, 14579, 15679, 2347, 2367, 2478, 2678, 345, 356, 458, 568, 123489, 123689, 1249, 1269, 1345789, 1356789, 14579, 15679, 2347, 2367, 2478, 2678, 345, 356, 458, 568}
931:81	$0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{1131}e^{12}, \frac{2}{121}\sqrt{195}e^{13}, \frac{2}{121}\sqrt{1131}e^{27} + \frac{2}{121}\sqrt{195}e^{38}$	$(-\frac{10}{121}, \frac{24}{121}, \frac{24}{121}, \frac{53}{121}, -\frac{54}{121}, -\frac{25}{121}, \frac{14}{121}, \frac{14}{121}, \frac{38}{121}) + \frac{4}{121}\sqrt{663}e^2 \otimes e_5 + \frac{78}{121}e^4 \otimes e_6$	{123489, 123689, 1249, 1269, 1345789, 1356789, 14579, 15679, 2347, 2367, 2478, 2678, 345, 356, 458, 568, 123489, 123689, 1249, 1269, 1345789, 1356789, 14579, 15679, 2347, 2367, 2478, 2678, 345, 356, 458, 568}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{39}\sqrt{253}e^{12}, \frac{1}{39}\sqrt{253}e^{13}, \frac{1}{39}\sqrt{253}e^{27} + \frac{1}{39}\sqrt{253}e^{38}$	$(-\frac{2}{13}, \frac{11}{39}, \frac{11}{39}, -\frac{4}{13}, -\frac{4}{13}, \frac{5}{39}, \frac{5}{39}, \frac{5}{39}, \frac{16}{39}) + \frac{1}{39}\sqrt{782}e^2 \otimes e_4 + \frac{1}{39}\sqrt{782}e^3 \otimes e_5$	{12369, 1239, 125689, 12589, 1456789, 145789, 23678, 2378, 2567, 257, 45, 456, 12369, 1239, 125689, 12589, 1456789, 145789, 23678, 2378, 2567, 257, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{253}e^{12}, \frac{1}{39}\sqrt{253}e^{13}, \frac{1}{39}\sqrt{253}e^{27} + \frac{1}{39}\sqrt{253}e^{38}$	$(-\frac{2}{13}, \frac{11}{39}, \frac{11}{39}, -\frac{4}{13}, -\frac{4}{13}, \frac{5}{39}, \frac{5}{39}, \frac{5}{39}, \frac{16}{39}) + \frac{1}{39}\sqrt{782}e^2 \otimes e_4 + \frac{1}{39}\sqrt{782}e^3 \otimes e_5$	{12369, 1239, 125689, 12589, 1456789, 145789, 23678, 2378, 2567, 257, 45, 456, 12369, 1239, 125689, 12589, 1456789, 145789, 23678, 2378, 2567, 257, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{39}\sqrt{253}e^{12}, \frac{1}{39}\sqrt{253}e^{13}, \frac{1}{39}\sqrt{253}e^{27} + \frac{1}{39}\sqrt{253}e^{38}$	$(\frac{11}{39}, -\frac{2}{13}, -\frac{2}{13}, \frac{22}{39}, -\frac{4}{13}, \frac{5}{39}, \frac{5}{39}, \frac{5}{39}, -\frac{1}{39}) + \frac{1}{39}\sqrt{782}e^1 \otimes e_5 + \frac{1}{39}\sqrt{782}e^4 \otimes e_9$	{12369, 1239, 12689, 1289, 16789, 1789, 2345678, 234578, 24567, 2457, 45, 456, 12369, 1239, 12689, 1289, 16789, 1789, 2345678, 234578, 24567, 2457, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{253}e^{12}, \frac{1}{39}\sqrt{253}e^{13}, \frac{1}{39}\sqrt{253}e^{27} + \frac{1}{39}\sqrt{253}e^{38}$	$(\frac{11}{39}, -\frac{2}{13}, -\frac{2}{13}, \frac{22}{39}, -\frac{4}{13}, \frac{5}{39}, \frac{5}{39}, \frac{5}{39}, -\frac{1}{39}) + \frac{1}{39}\sqrt{782}e^1 \otimes e_5 + \frac{1}{39}\sqrt{782}e^4 \otimes e_9$	{12369, 1239, 12689, 1289, 16789, 1789, 2345678, 234578, 24567, 2457, 45, 456, 12369, 1239, 12689, 1289, 16789, 1789, 2345678, 234578, 24567, 2457, 45, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{1}{11}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{3}e^{13}, \frac{1}{11}\sqrt{15}e^{27} + \frac{1}{11}\sqrt{3}e^{38}$	$(\frac{1}{11}, 0, 0, -\frac{2}{11}, \frac{4}{11}, -\frac{3}{11}, \frac{1}{11}, \frac{1}{11}, \frac{1}{11}) + \frac{2}{11}\sqrt{6}e^2 \otimes e_6 + \frac{3}{11}\sqrt{2}e^1 \otimes e_4 + \frac{3}{11}\sqrt{2}e^5 \otimes e_9$	{1239, 1289, 13679, 16789, 234578, 2457, 34568, 456, 1239, 1289, 13679, 16789, 234578, 2457, 34568, 456}
931:81	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{15}e^{12}, \frac{1}{11}\sqrt{3}e^{13}, \frac{1}{11}\sqrt{15}e^{27} + \frac{1}{11}\sqrt{3}e^{38}$	$(\frac{1}{11}, 0, 0, -\frac{2}{11}, \frac{4}{11}, -\frac{3}{11}, \frac{1}{11}, \frac{1}{11}, \frac{1}{11}) + \frac{2}{11}\sqrt{6}e^2 \otimes e_6 + \frac{3}{11}\sqrt{2}e^1 \otimes e_4 + \frac{3}{11}\sqrt{2}e^5 \otimes e_9$	{1239, 1289, 13679, 16789, 234578, 2457, 34568, 456, 1239, 1289, 13679, 16789, 234578, 2457, 34568, 456}
931:81	$0, 0, 0, 0, 0, 0, -\frac{2}{5}e^{12}, \frac{2}{5}e^{13}, \frac{2}{5}e^{27} + \frac{2}{5}e^{38}$	$(\frac{1}{10}, \frac{1}{10}, \frac{1}{10}, 1, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{3}{10}) + \frac{8}{5}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 4, 46, 5, 56, 123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 4, 46, 5, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:81	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{12}, \frac{2}{5}e^{13}, \frac{2}{5}e^{27} + \frac{2}{5}e^{38}$	$(\frac{1}{10}, \frac{1}{10}, \frac{1}{10}, 1, -\frac{3}{5}, \frac{1}{5}, \frac{1}{5}, \frac{3}{10})$ $+ \frac{2}{5}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 4, 46, 5, 56, 123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 234678, 23478, 235678, 23578, 2467, 247, 2567, 257, 4, 46, 5, 56}
931:83	$0, 0, 0, 0, 0, 0, -\frac{1}{83}\sqrt{86}e^{12}, \frac{1}{83}\sqrt{86}e^{13}, \frac{2}{83}\sqrt{731}e^{14} + \frac{1}{83}\sqrt{2838}e^{27} + \frac{1}{83}\sqrt{2838}e^{38}$	$(-\frac{1}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{2}{83}, 1, \frac{15}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731}e^5 \otimes e_9$	{12345678, 1234578, 124567, 12457, 145, 1456, 23469, 2349, 24689, 2489, 46789, 4789, 12345678, 1234578, 124567, 12457, 145, 1456, 23469, 2349, 24689, 2489, 46789, 4789}
931:83	$0, 0, 0, 0, 0, 0, \frac{1}{83}\sqrt{86}e^{12}, \frac{1}{83}\sqrt{86}e^{13}, \frac{2}{83}\sqrt{731}e^{14} + \frac{1}{83}\sqrt{2838}e^{27} + \frac{1}{83}\sqrt{2838}e^{38}$	$(-\frac{1}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{2}{83}, 1, \frac{15}{83}, -\frac{2}{83}, -\frac{2}{83}, -\frac{3}{83})$ $+ \frac{4}{83}\sqrt{731}e^5 \otimes e_9$	{12345678, 1234578, 124567, 12457, 145, 1456, 23469, 2349, 24689, 2489, 46789, 4789, 12345678, 1234578, 124567, 12457, 145, 1456, 23469, 2349, 24689, 2489, 46789, 4789}
931:83	$0, 0, 0, 0, 0, 0, -\frac{1}{77}\sqrt{494}e^{12}, \frac{1}{77}\sqrt{494}e^{13}, \frac{2}{77}\sqrt{323}e^{14} + \frac{1}{77}\sqrt{494}e^{27} + \frac{1}{77}\sqrt{494}e^{38}$	$(\frac{13}{77}, -\frac{4}{77}, -\frac{4}{77}, -\frac{8}{77}, \frac{43}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{5}{77})$ $+ \frac{2}{77}\sqrt{646}e^1 \otimes e_6 + \frac{2}{77}\sqrt{646}e^5 \otimes e_9$	{1239, 1289, 1789, 235678, 2567, 56, 1239, 1289, 1789, 235678, 2567, 56}
931:83	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{494}e^{12}, \frac{1}{77}\sqrt{494}e^{13}, \frac{2}{77}\sqrt{323}e^{14} + \frac{1}{77}\sqrt{494}e^{27} + \frac{1}{77}\sqrt{494}e^{38}$	$(\frac{13}{77}, -\frac{4}{77}, -\frac{4}{77}, -\frac{8}{77}, \frac{43}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{5}{77})$ $+ \frac{2}{77}\sqrt{646}e^1 \otimes e_6 + \frac{2}{77}\sqrt{646}e^5 \otimes e_9$	{1239, 1289, 1789, 235678, 2567, 56, 1239, 1289, 1789, 235678, 2567, 56}
931:83	$0, 0, 0, 0, 0, 0, -\frac{5}{244}\sqrt{145}e^{12}, \frac{5}{244}\sqrt{145}e^{13}, \frac{45}{244}\sqrt{10}e^{14} + \frac{25}{244}\sqrt{6}e^{27} + \frac{25}{244}\sqrt{6}e^{38}$	$(-\frac{29}{244}, \frac{45}{488}, \frac{45}{488}, \frac{45}{244}, \frac{141}{244}, -\frac{20}{61}, -\frac{13}{488}, -\frac{13}{488}, \frac{4}{61})$ $+ \frac{5}{122}\sqrt{295}e^5 \otimes e_9 + \frac{5}{244}\sqrt{1030}e^4 \otimes e_6$	{1234578, 12457, 145, 2349, 2489, 4789, 1234578, 12457, 145, 2349, 2489, 4789}
931:83	$0, 0, 0, 0, 0, 0, \frac{5}{244}\sqrt{145}e^{12}, \frac{5}{244}\sqrt{145}e^{13}, \frac{45}{244}\sqrt{10}e^{14} + \frac{25}{244}\sqrt{6}e^{27} + \frac{25}{244}\sqrt{6}e^{38}$	$(-\frac{29}{244}, \frac{45}{488}, \frac{45}{488}, \frac{45}{244}, \frac{141}{244}, -\frac{20}{61}, -\frac{13}{488}, -\frac{13}{488}, \frac{4}{61})$ $+ \frac{5}{122}\sqrt{295}e^5 \otimes e_9 + \frac{5}{244}\sqrt{1030}e^4 \otimes e_6$	{1234578, 12457, 145, 2349, 2489, 4789, 1234578, 12457, 145, 2349, 2489, 4789}
931:83	$0, 0, 0, 0, 0, 0, -\frac{4}{327}\sqrt{1670}e^{12}, \frac{2}{981}\sqrt{20374}e^{13}, \frac{2}{981}\sqrt{36907}e^{14} + \frac{2}{981}\sqrt{43086}e^{27} + \frac{4}{981}\sqrt{835}e^{38}$	$(\frac{244}{981}, -\frac{5}{109}, -\frac{5}{109}, -\frac{10}{109}, -\frac{379}{981}, \frac{97}{981}, \frac{199}{981}, \frac{199}{981}, \frac{154}{981})$ $+ \frac{4}{981}\sqrt{17034}e^1 \otimes e_4 + \frac{4}{981}\sqrt{19873}e^2 \otimes e_5$	{234678, 23478, 2467, 247, 34568, 3458, 45, 456, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
931:83	$0, 0, 0, 0, 0, 0, \frac{4}{327}\sqrt{1670}e^{12}, \frac{2}{981}\sqrt{20374}e^{13}, \frac{2}{981}\sqrt{36907}e^{14} + \frac{2}{981}\sqrt{43086}e^{27} + \frac{4}{981}\sqrt{835}e^{38}$	$(\frac{244}{981}, -\frac{5}{109}, -\frac{5}{109}, -\frac{10}{109}, -\frac{379}{981}, \frac{97}{981}, \frac{199}{981}, \frac{199}{981}, \frac{154}{981})$ $+ \frac{4}{981}\sqrt{17034}e^1 \otimes e_4 + \frac{4}{981}\sqrt{19873}e^2 \otimes e_5$	{234678, 23478, 2467, 247, 34568, 3458, 45, 456, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
931:83	$0, 0, 0, 0, 0, 0, -\frac{1}{157}\sqrt{7171}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{1}{157}\sqrt{1010}e^{14} + \frac{1}{157}\sqrt{7171}e^{27} + \frac{1}{157}\sqrt{1515}e^{38}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, \frac{66}{157}, -\frac{68}{157}, -\frac{35}{157}, \frac{18}{157}, \frac{18}{157}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{10706}e^4 \otimes e_6 + \frac{2}{157}\sqrt{4343}e^2 \otimes e_5$	{123689, 1269, 1356789, 15679, 2367, 2678, 356, 568, 123689, 1269, 1356789, 15679, 2367, 2678, 356, 568}
931:83	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{7171}e^{12}, \frac{1}{157}\sqrt{1515}e^{13}, \frac{1}{157}\sqrt{1010}e^{14} + \frac{1}{157}\sqrt{7171}e^{27} + \frac{1}{157}\sqrt{1515}e^{38}$	$(-\frac{15}{157}, \frac{33}{157}, \frac{33}{157}, \frac{66}{157}, -\frac{68}{157}, -\frac{35}{157}, \frac{18}{157}, \frac{18}{157}, \frac{51}{157})$ $+ \frac{1}{157}\sqrt{10706}e^4 \otimes e_6 + \frac{2}{157}\sqrt{4343}e^2 \otimes e_5$	{123689, 1269, 1356789, 15679, 2367, 2678, 356, 568, 123689, 1269, 1356789, 15679, 2367, 2678, 356, 568}
931:83	$0, 0, 0, 0, 0, 0, -\frac{1}{83}\sqrt{2838}e^{12}, \frac{1}{83}\sqrt{2838}e^{13}, \frac{2}{83}\sqrt{731}e^{14} + \frac{1}{83}\sqrt{86}e^{27} + \frac{1}{83}\sqrt{86}e^{38}$	$(\frac{33}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{2}{83}, -\frac{53}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, \frac{31}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_5$	{1234, 12346, 12468, 1248, 14678, 1478, 23456789, 2345789, 245679, 24579, 4569, 459, 1234, 12346, 12468, 1248, 14678, 1478, 23456789, 2345789, 245679, 24579, 4569, 459}
931:83	$0, 0, 0, 0, 0, 0, \frac{1}{83}\sqrt{2838}e^{12}, \frac{1}{83}\sqrt{2838}e^{13}, \frac{2}{83}\sqrt{731}e^{14} + \frac{1}{83}\sqrt{86}e^{27} + \frac{1}{83}\sqrt{86}e^{38}$	$(\frac{33}{83}, -\frac{1}{83}, -\frac{1}{83}, -\frac{2}{83}, -\frac{53}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, \frac{31}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_5$	{1234, 12346, 12468, 1248, 14678, 1478, 23456789, 2345789, 245679, 24579, 4569, 459, 1234, 12346, 12468, 1248, 14678, 1478, 23456789, 2345789, 245679, 24579, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:83	$0, 0, 0, 0, 0, 0, -\frac{25}{244}\sqrt{6}e^{12}, \frac{25}{244}\sqrt{6}e^{13},$ $\frac{45}{244}\sqrt{10}e^{14} + \frac{5}{244}\sqrt{145}e^{27} + \frac{5}{244}\sqrt{145}e^{38}$	$(\frac{15}{122}, \frac{45}{488}, \frac{45}{488}, \frac{45}{244}, -\frac{95}{244}, -\frac{20}{61}, \frac{105}{488}, \frac{105}{488}, \frac{75}{244})$ $+ \frac{5}{122}\sqrt{295}e^1 \otimes e_5 + \frac{5}{244}\sqrt{1030}e^4 \otimes e_6$	{1234, 1248, 1478, 2345789, 24579, 459, 1234, 1248, 1478, 2345789, 24579, 459}
931:83	$0, 0, 0, 0, 0, 0, \frac{25}{244}\sqrt{6}e^{12}, \frac{25}{244}\sqrt{6}e^{13},$ $\frac{45}{244}\sqrt{10}e^{14} + \frac{5}{244}\sqrt{145}e^{27} + \frac{5}{244}\sqrt{145}e^{38}$	$(\frac{15}{122}, \frac{45}{488}, \frac{45}{488}, \frac{45}{244}, -\frac{95}{244}, -\frac{20}{61}, \frac{105}{488}, \frac{105}{488}, \frac{75}{244})$ $+ \frac{5}{122}\sqrt{295}e^1 \otimes e_5 + \frac{5}{244}\sqrt{1030}e^4 \otimes e_6$	{1234, 1248, 1478, 2345789, 24579, 459, 1234, 1248, 1478, 2345789, 24579, 459}
931:83	$0, 0, 0, 0, 0, 0, -\frac{21}{1753}\sqrt{953}e^{12}, \frac{21}{1753}\sqrt{273}e^{13},$ $\frac{42}{1753}\sqrt{102}e^{14} + \frac{21}{1753}\sqrt{885}e^{27} + \frac{21}{1753}\sqrt{205}e^{38}$	$(\frac{273}{1753}, -\frac{84}{1753}, -\frac{84}{1753}, -\frac{168}{1753}, \frac{546}{1753}, -\frac{525}{1753}, \frac{189}{1753}, \frac{189}{1753}, \frac{105}{1753})$ $+ \frac{21}{1753}\sqrt{1054}e^1 \otimes e_4 + \frac{21}{1753}\sqrt{782}e^5 \otimes e_9 + \frac{84}{1753}\sqrt{85}e^2 \otimes e_6$	{234578, 2457, 34568, 456, 234578, 2457, 34568, 456}
931:83	$0, 0, 0, 0, 0, 0, \frac{21}{1753}\sqrt{953}e^{12}, \frac{21}{1753}\sqrt{273}e^{13},$ $\frac{42}{1753}\sqrt{102}e^{14} + \frac{21}{1753}\sqrt{885}e^{27} + \frac{21}{1753}\sqrt{205}e^{38}$	$(\frac{273}{1753}, -\frac{84}{1753}, -\frac{84}{1753}, -\frac{168}{1753}, \frac{546}{1753}, -\frac{525}{1753}, \frac{189}{1753}, \frac{189}{1753}, \frac{105}{1753})$ $+ \frac{21}{1753}\sqrt{1054}e^1 \otimes e_4 + \frac{21}{1753}\sqrt{782}e^5 \otimes e_9 + \frac{84}{1753}\sqrt{85}e^2 \otimes e_6$	{234578, 2457, 34568, 456, 234578, 2457, 34568, 456}
931:83	$0, 0, 0, 0, 0, 0, -\frac{2}{81}\sqrt{1155}e^{12}, \frac{2}{81}\sqrt{35}e^{13},$ $\frac{2}{81}\sqrt{595}e^{14} + \frac{2}{81}\sqrt{1155}e^{27} + \frac{2}{81}\sqrt{35}e^{38}$	$(-\frac{2}{81}, \frac{5}{27}, \frac{5}{27}, \frac{10}{27}, -\frac{55}{81}, \frac{13}{81}, \frac{13}{81}, \frac{13}{81}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^2 \otimes e_5$	{1234689, 123489, 12469, 1249, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458, 1234689, 123489, 12469, 1249, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458}
931:83	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{1155}e^{12}, \frac{2}{81}\sqrt{35}e^{13},$ $\frac{2}{81}\sqrt{595}e^{14} + \frac{2}{81}\sqrt{1155}e^{27} + \frac{2}{81}\sqrt{35}e^{38}$	$(-\frac{2}{81}, \frac{5}{27}, \frac{5}{27}, \frac{10}{27}, -\frac{55}{81}, \frac{13}{81}, \frac{13}{81}, \frac{13}{81}, \frac{28}{81})$ $+ \frac{4}{81}\sqrt{595}e^2 \otimes e_5$	{1234689, 123489, 12469, 1249, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458, 1234689, 123489, 12469, 1249, 13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458}
931:83	$0, 0, 0, 0, 0, 0, -\frac{2}{77}\sqrt{285}e^{12}, \frac{2}{77}\sqrt{285}e^{13},$ $\frac{2}{77}\sqrt{323}e^{14} + \frac{2}{77}\sqrt{285}e^{27} + \frac{2}{77}\sqrt{285}e^{38}$	$(-\frac{4}{77}, \frac{13}{77}, \frac{13}{77}, \frac{26}{77}, -\frac{25}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{2}{7})$ $+ \frac{2}{77}\sqrt{646}e^2 \otimes e_5 + \frac{2}{77}\sqrt{646}e^3 \otimes e_6$	{12349, 124689, 1456789, 23478, 2467, 456, 12349, 124689, 1456789, 23478, 2467, 456}
931:83	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{285}e^{12}, \frac{2}{77}\sqrt{285}e^{13},$ $\frac{2}{77}\sqrt{323}e^{14} + \frac{2}{77}\sqrt{285}e^{27} + \frac{2}{77}\sqrt{285}e^{38}$	$(-\frac{4}{77}, \frac{13}{77}, \frac{13}{77}, \frac{26}{77}, -\frac{25}{77}, -\frac{25}{77}, \frac{9}{77}, \frac{9}{77}, \frac{2}{7})$ $+ \frac{2}{77}\sqrt{646}e^2 \otimes e_5 + \frac{2}{77}\sqrt{646}e^3 \otimes e_6$	{12349, 124689, 1456789, 23478, 2467, 456, 12349, 124689, 1456789, 23478, 2467, 456}
931:83	$0, 0, 0, 0, 0, 0, -\frac{10}{83}\sqrt{43}e^{12}, \frac{10}{83}\sqrt{43}e^{13},$ $\frac{2}{83}\sqrt{731}e^{14} + \frac{4}{83}\sqrt{86}e^{27} + \frac{4}{83}\sqrt{86}e^{38}$	$(\frac{50}{83}, -\frac{18}{83}, -\frac{18}{83}, -\frac{36}{83}, \frac{15}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, \frac{14}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_4$	{2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:83	$0, 0, 0, 0, 0, 0, \frac{10}{83}\sqrt{43}e^{12}, \frac{10}{83}\sqrt{43}e^{13},$ $\frac{2}{83}\sqrt{731}e^{14} + \frac{4}{83}\sqrt{86}e^{27} + \frac{4}{83}\sqrt{86}e^{38}$	$(\frac{50}{83}, -\frac{18}{83}, -\frac{18}{83}, -\frac{36}{83}, \frac{15}{83}, \frac{15}{83}, \frac{32}{83}, \frac{32}{83}, \frac{14}{83})$ $+ \frac{4}{83}\sqrt{731}e^1 \otimes e_4$	{2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456, 2345678, 234578, 23478, 24567, 2457, 247, 4, 45, 456}
931:83	$0, 0, 0, 0, 0, 0, -\frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13},$ $\frac{8}{19}\sqrt{6}e^{14} + \frac{2}{19}\sqrt{15}e^{27} + \frac{2}{19}\sqrt{15}e^{38}$	$(-\frac{5}{38}, \frac{11}{38}, \frac{11}{38}, \frac{11}{19}, -\frac{13}{19}, \frac{3}{19}, \frac{3}{19}, \frac{17}{38})$ $+ \frac{16}{19}\sqrt{3}e^4 \otimes e_5$	{12356789, 1235789, 125679, 12579, 1569, 159, 235, 2356, 2568, 258, 5678, 578, 12356789, 1235789, 125679, 12579, 1569, 159, 235, 2356, 2568, 258, 5678, 578}
931:83	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{15}e^{12}, \frac{2}{19}\sqrt{15}e^{13},$ $\frac{8}{19}\sqrt{6}e^{14} + \frac{2}{19}\sqrt{15}e^{27} + \frac{2}{19}\sqrt{15}e^{38}$	$(-\frac{5}{38}, \frac{11}{38}, \frac{11}{38}, \frac{11}{19}, -\frac{13}{19}, \frac{3}{19}, \frac{3}{19}, \frac{17}{38})$ $+ \frac{16}{19}\sqrt{3}e^4 \otimes e_5$	{12356789, 1235789, 125679, 12579, 1569, 159, 235, 2356, 2568, 258, 5678, 578, 12356789, 1235789, 125679, 12579, 1569, 159, 235, 2356, 2568, 258, 5678, 578}
931:83	$0, 0, 0, 0, 0, 0, -\frac{5}{63}\sqrt{43}e^{12}, \frac{5}{63}\sqrt{43}e^{13},$ $\frac{1}{63}\sqrt{731}e^{14} + \frac{2}{63}\sqrt{86}e^{27} + \frac{2}{63}\sqrt{86}e^{38}$	$(\frac{25}{63}, -\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{29}{63}, -\frac{2}{9}, \frac{16}{63}, \frac{16}{63}, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{731}e^1 \otimes e_4 + \frac{43}{63}e^5 \otimes e_6$	{234578, 234678, 2457, 2467, 45, 46, 234578, 234678, 2457, 2467, 45, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:83	$0, 0, 0, 0, 0, \frac{5}{63}\sqrt{43}e^{12}, \frac{5}{63}\sqrt{43}e^{13},$ $\frac{1}{63}\sqrt{731}e^{14} + \frac{2}{63}\sqrt{86}e^{27} + \frac{2}{63}\sqrt{86}e^{38}$	$(\frac{25}{63}, -\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, \frac{29}{63}, -\frac{2}{9}, \frac{16}{63}, \frac{16}{63}, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{731}e^1 \otimes e_4 + \frac{43}{63}e^5 \otimes e_6$	{234578, 234678, 2457, 2467, 45, 46, 234578, 234678, 2457, 2467, 45, 46}
931:84	$0, 0, 0, 0, 0, \frac{84}{479}\sqrt{5}e^{12}, \frac{12}{479}\sqrt{21}e^{13},$ $\frac{126}{479}\sqrt{2}e^{17} + \frac{18}{479}\sqrt{35}e^{24} + \frac{30}{479}\sqrt{7}e^{38}$	$(-\frac{24}{479}, \frac{78}{479}, \frac{27}{479}, -\frac{48}{479}, \frac{156}{479}, -\frac{150}{479}, \frac{54}{479}, \frac{3}{479}, \frac{30}{479})$ $+ \frac{12}{479}\sqrt{203}e^5 \otimes e_9 + \frac{42}{479}\sqrt{19}e^2 \otimes e_4 + \frac{6}{479}\sqrt{1330}e^1 \otimes e_6$	{134578, 1457}
931:84	$0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{203910}e^{12}, \frac{1}{1145}\sqrt{196142}e^{13},$ $\frac{2}{1145}\sqrt{204881}e^{17} + \frac{12}{1145}\sqrt{2913}e^{24} + \frac{2}{1145}\sqrt{2913}e^{38}$	$(\frac{202}{1145}, -\frac{16}{1145}, \frac{93}{1145}, \frac{404}{1145}, -\frac{769}{1145}, \frac{188}{1145}, \frac{186}{1145}, \frac{59}{229}, \frac{388}{1145})$ $+ \frac{1}{1145}\sqrt{1858494}e^1 \otimes e_5$	{13467, 1347, 14678, 1478, 23456789, 2345789, 245679, 24579}
931:84	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{858}e^{12}, \frac{5}{91}\sqrt{78}e^{13},$ $\frac{1}{91}\sqrt{390}e^{17} + \frac{4}{91}\sqrt{39}e^{24} + \frac{6}{91}\sqrt{39}e^{38}$	$(\frac{9}{91}, \frac{1}{13}, \frac{8}{91}, \frac{18}{91}, -\frac{30}{91}, -\frac{31}{91}, \frac{16}{91}, \frac{17}{91}, \frac{25}{91})$ $+ \frac{1}{91}\sqrt{3198}e^3 \otimes e_6 + \frac{4}{91}\sqrt{195}e^1 \otimes e_5$	{12349, 124689, 3458, 456}
931:84	$0, 0, 0, 0, 0, \frac{5}{223}\sqrt{374}e^{12}, \frac{1}{223}\sqrt{37774}e^{13},$ $\frac{11}{223}\sqrt{170}e^{17} + \frac{4}{223}\sqrt{187}e^{24} + \frac{6}{223}\sqrt{935}e^{38}$	$(\frac{13}{223}, \frac{51}{223}, \frac{32}{223}, \frac{26}{223}, -\frac{155}{223}, \frac{34}{223}, \frac{64}{223}, \frac{45}{223}, \frac{77}{223})$ $+ \frac{3}{223}\sqrt{7854}e^3 \otimes e_5$	{123679, 12379, 1256789, 125789, 3678, 378, 567, 57}
931:84	$0, 0, 0, 0, 0, \frac{4}{897}\sqrt{20119}e^{12}, \frac{2}{897}\sqrt{23870}e^{13},$ $\frac{2}{897}\sqrt{24211}e^{17} + \frac{2}{897}\sqrt{27962}e^{24} + \frac{299}{499}\sqrt{341}e^{38}$	$(-\frac{140}{897}, \frac{134}{299}, \frac{131}{897}, -\frac{280}{897}, \frac{146}{299}, -\frac{244}{897}, \frac{262}{897}, -\frac{3}{299}, \frac{122}{897})$ $+ \frac{2}{299}\sqrt{17391}e^2 \otimes e_4 + \frac{682}{897}e^5 \otimes e_6$	{134578, 134678, 1457, 1467}
931:84	$0, 0, 0, 0, 0, \frac{12}{3035}\sqrt{18715}e^{12}, \frac{12}{3035}\sqrt{1577}e^{13},$ $\frac{12}{3035}\sqrt{11894}e^{17} + \frac{12}{3035}\sqrt{57}e^{24} + \frac{84}{3035}\sqrt{38}e^{38}$	$(\frac{166}{3035}, \frac{522}{3035}, \frac{344}{3035}, \frac{332}{3035}, -\frac{1202}{3035}, -\frac{846}{3035}, \frac{688}{3035}, \frac{102}{607}, \frac{854}{3035})$ $+ \frac{12}{3035}\sqrt{29089}e^1 \otimes e_5 + \frac{12}{607}\sqrt{893}e^2 \otimes e_6$	{13467, 14678, 2345789, 24579}
931:84	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{5}e^{12}, \frac{2}{23}\sqrt{46}e^{13},$ $\frac{2}{23}\sqrt{30}e^{17} + \frac{4}{23}\sqrt{7}e^{24} + \frac{2}{23}\sqrt{30}e^{38}$	$(\frac{3}{23}, \frac{1}{23}, \frac{2}{23}, \frac{6}{23}, -\frac{10}{23}, -\frac{6}{23}, \frac{4}{23}, \frac{5}{23}, \frac{7}{23})$ $+ \frac{10}{23}\sqrt{2}e^4 \otimes e_6 + \frac{2}{23}\sqrt{74}e^3 \otimes e_5$	{123679, 1256789, 3678, 567}
931:84	$0, 0, 0, 0, 0, \frac{28}{2931}\sqrt{1886}e^{12}, \frac{4}{977}\sqrt{1771}e^{13},$ $\frac{28}{2931}\sqrt{2921}e^{17} + \frac{4}{2931}\sqrt{9821}e^{24} + \frac{4}{2931}\sqrt{36386}e^{38}$	$(\frac{66}{977}, -\frac{178}{2931}, \frac{10}{2931}, \frac{132}{977}, \frac{502}{977}, -\frac{1090}{2931}, \frac{20}{2931}, \frac{208}{2931}, \frac{218}{2931})$ $+ \frac{20}{2931}\sqrt{9177}e^1 \otimes e_6 + \frac{4}{2931}\sqrt{188531}e^5 \otimes e_9$	{12349, 12489, 34568, 456}
931:84	$0, 0, 0, 0, 0, \frac{1}{278}\sqrt{20119}e^{12}, \frac{1}{278}\sqrt{23870}e^{13},$ $\frac{1}{278}\sqrt{24211}e^{17} + \frac{1}{278}\sqrt{27962}e^{24} + \frac{3}{139}\sqrt{341}e^{38}$	$(-\frac{35}{139}, \frac{201}{278}, \frac{131}{556}, -\frac{70}{139}, \frac{97}{556}, \frac{131}{556}, \frac{278}{556}, -\frac{9}{556}, \frac{61}{278})$ $+ \frac{3}{278}\sqrt{17391}e^2 \otimes e_4$	{1345678, 134578, 13478, 14567, 1457, 147}
931:84	$0, 0, 0, 0, 0, \frac{1}{22}\sqrt{13}e^{12}, \frac{1}{22}\sqrt{130}e^{13},$ $\frac{1}{22}\sqrt{65}e^{17} + \frac{1}{22}\sqrt{26}e^{24} + \frac{1}{11}\sqrt{39}e^{38}$	$(-\frac{1}{11}, \frac{9}{22}, \frac{7}{44}, -\frac{2}{11}, -\frac{19}{44}, \frac{5}{44}, \frac{7}{44}, \frac{3}{44}, \frac{5}{22})$ $+ \frac{1}{11}\sqrt{78}e^3 \otimes e_5 + \frac{1}{22}\sqrt{195}e^2 \otimes e_4$	{23678, 2378, 2567, 257}
931:84	$0, 0, 0, 0, 0, \frac{2}{387}\sqrt{401}e^{12}, \frac{2}{387}\sqrt{401}e^{13},$ $\frac{2}{387}\sqrt{15639}e^{17} + \frac{2}{387}\sqrt{15639}e^{24} + \frac{1}{387}\sqrt{61754}e^{38}$	$(-\frac{4}{387}, -\frac{2}{129}, -\frac{5}{387}, -\frac{8}{387}, \frac{1}{387}, \frac{70}{387}, -\frac{10}{387}, -\frac{1}{43}, -\frac{14}{387})$ $+ \frac{1}{387}\sqrt{254234}e^5 \otimes e_9$	{12345678, 1234578, 124567, 12457, 34679, 3479, 46789, 4789}
931:84	$0, 0, 0, 0, 0, \frac{8}{423}\sqrt{655}e^{12}, \frac{2}{423}\sqrt{4454}e^{13},$ $\frac{4}{141}\sqrt{262}e^{17} + \frac{2}{423}\sqrt{1965}e^{24} + \frac{2}{423}\sqrt{7205}e^{38}$	$(-\frac{68}{423}, \frac{14}{47}, \frac{29}{423}, -\frac{136}{423}, \frac{28}{47}, \frac{50}{423}, \frac{58}{423}, -\frac{13}{141}, -\frac{10}{423})$ $+ \frac{2}{141}\sqrt{2489}e^2 \otimes e_4 + \frac{2}{423}\sqrt{26462}e^5 \otimes e_9$	{23679, 2379, 26789, 2789}
931:84	$0, 0, 0, 0, 0, \frac{2}{3417}\sqrt{273991}e^{12}, \frac{4}{3417}\sqrt{37002}e^{13},$ $\frac{2}{3417}\sqrt{135674}e^{17} + \frac{4}{3417}\sqrt{244918}e^{24} + \frac{2}{3417}\sqrt{209678}e^{38}$	$(\frac{112}{1139}, -\frac{454}{3417}, -\frac{59}{3417}, \frac{224}{1139}, \frac{660}{1139}, -\frac{1090}{3417}, -\frac{118}{3417}, \frac{277}{3417}, \frac{218}{3417})$ $+ \frac{2}{3417}\sqrt{1265997}e^4 \otimes e_6 + \frac{2}{3417}\sqrt{1438673}e^5 \otimes e_9$	{1349, 1489, 23458, 245}
931:84	$0, 0, 0, 0, 0, \frac{8}{63}\sqrt{7}e^{12}, \frac{8}{63}\sqrt{2}e^{13},$ $\frac{8}{63}\sqrt{6}e^{17} + \frac{8}{63}\sqrt{15}e^{24} + \frac{8}{63}\sqrt{5}e^{38}$	$(-\frac{4}{63}, \frac{4}{21}, \frac{4}{63}, -\frac{8}{63}, \frac{4}{7}, -\frac{20}{63}, \frac{8}{63}, \frac{0}{63}, \frac{4}{63})$ $+ \frac{8}{21}\sqrt{3}e^2 \otimes e_6 + \frac{8}{63}\sqrt{29}e^5 \otimes e_9$	{135678, 1567, 2379, 2789}
931:84	$0, 0, 0, 0, 0, \frac{1}{1091}\sqrt{400214}e^{12}, \frac{2}{1091}\sqrt{103411}e^{13},$ $\frac{1}{1091}\sqrt{351866}e^{17} + \frac{5}{1091}\sqrt{51034}e^{24} + \frac{6}{1091}\sqrt{4029}e^{38}$	$(\frac{308}{1091}, -\frac{144}{1091}, \frac{82}{1091}, \frac{616}{1091}, -\frac{727}{1091}, \frac{182}{1091}, \frac{164}{1091}, \frac{390}{1091}, \frac{472}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_5$	{135, 1356, 1568, 158, 235689, 23589, 2569, 259}
931:84	$0, 0, 0, 0, 0, \frac{44}{3561}\sqrt{1995}e^{12}, \frac{4}{3561}\sqrt{14630}e^{13},$ $\frac{2}{3561}\sqrt{653030}e^{17} + \frac{14}{3561}\sqrt{9595}e^{24} + \frac{38}{3561}\sqrt{35}e^{38}$	$(-\frac{176}{3561}, \frac{326}{1187}, \frac{401}{3561}, -\frac{352}{3561}, -\frac{502}{1187}, \frac{332}{3561}, \frac{802}{3561}, \frac{75}{1187}, \frac{626}{3561})$ $+ \frac{2}{3561}\sqrt{1222270}e^1 \otimes e_5 + \frac{2}{3561}\sqrt{925015}e^2 \otimes e_4$	{134678, 13478, 1467, 147}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:84	$0, 0, 0, 0, 0, 0, \frac{1}{1177}\sqrt{46410e^{12}}, \frac{4}{1177}\sqrt{25194e^{13}},$ $\frac{39}{1177}\sqrt{170e^{17}} + \frac{4}{1177}\sqrt{12597e^{24}} + \frac{1}{1177}\sqrt{351390e^{38}}$	$(-\frac{8}{1177}, \frac{34}{107}, \frac{183}{1177}, -\frac{16}{1177}, -\frac{289}{1177}, -\frac{480}{1177}, \frac{366}{1177}, \frac{175}{1177}, \frac{358}{1177})$ $+\frac{4}{1177}\sqrt{51051e^3} \otimes e_6 + \frac{85}{1177}\sqrt{78e^2} \otimes e_5$	{134579, 1456789, 23478, 2467}
931:84	$0, 0, 0, 0, 0, 0, \frac{43}{5125}\sqrt{278e^{12}}, \frac{43}{5125}\sqrt{1594e^{13}},$ $\frac{43}{5125}\sqrt{146e^{17}} + \frac{688}{5125}\sqrt{2e^{24}} + \frac{86}{5125}\sqrt{658e^{38}}$	$(-\frac{387}{5125}, \frac{43}{205}, \frac{344}{5125}, -\frac{774}{5125}, \frac{86}{205}, -\frac{301}{1025}, \frac{688}{5125}, -\frac{43}{5125}, \frac{301}{5125})$ $+\frac{258}{5125}\sqrt{93e^5} \otimes e_9 + \frac{43}{5125}\sqrt{3962e^3} \otimes e_6 + \frac{86}{5125}\sqrt{497e^2} \otimes e_4$	{13479, 146789}
931:84	$0, 0, 0, 0, 0, 0, \frac{60}{3577}\sqrt{185e^{12}}, \frac{50}{3577}\sqrt{222e^{13}},$ $\frac{10}{3577}\sqrt{11137e^{17}} + \frac{20}{3577}\sqrt{12099e^{24}} + \frac{10}{3577}\sqrt{8362e^{38}}$	$(\frac{300}{3577}, \frac{510}{3577}, \frac{405}{3577}, \frac{600}{3577}, -\frac{1340}{3577}, -\frac{1250}{3577}, \frac{810}{3577}, \frac{705}{3577}, \frac{1110}{3577})$ $+\frac{10}{3577}\sqrt{58423e^4} \otimes e_6 + \frac{10}{3577}\sqrt{61753e^2} \otimes e_5$	{1234, 1248, 34589, 459}
931:84	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{298e^{12}}, \frac{2}{93}\sqrt{298e^{13}},$ $\frac{1}{93}\sqrt{745e^{17}} + \frac{1}{93}\sqrt{745e^{24}} + \frac{1}{31}\sqrt{149e^{38}}$	$(\frac{8}{93}, \frac{4}{31}, \frac{10}{93}, \frac{16}{93}, 1, -\frac{56}{93}, \frac{20}{93}, \frac{6}{31}, \frac{28}{93})$ $+\frac{149}{93}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 358, 368, 5, 6}
931:84	$0, 0, 0, 0, 0, 0, \frac{4}{1443}\sqrt{9255e^{12}}, \frac{2}{1443}\sqrt{109826e^{13}},$ $\frac{4}{1443}\sqrt{6170e^{17}} + \frac{2}{1443}\sqrt{48743e^{24}} + \frac{1}{1443}\sqrt{561470e^{38}}$	$(-\frac{2}{1443}, \frac{116}{1443}, \frac{19}{481}, -\frac{4}{1443}, \frac{243}{481}, -\frac{560}{1443}, \frac{38}{481}, \frac{55}{1443}, \frac{112}{1443})$ $+\frac{2}{1443}\sqrt{220269e^3} \otimes e_6 + \frac{5}{1443}\sqrt{28382e^5} \otimes e_9$	{12379, 126789, 3578, 567}
931:84	$0, 0, 0, 0, 0, 0, \frac{1}{1133}\sqrt{736442e^{12}}, \frac{4}{1133}\sqrt{3849e^{13}},$ $\frac{1}{1133}\sqrt{38490e^{17}} + \frac{4}{1133}\sqrt{47471e^{24}} + \frac{3}{1133}\sqrt{7698e^{38}}$	$(-\frac{48}{1133}, \frac{50}{103}, \frac{251}{1133}, -\frac{96}{1133}, -\frac{733}{1133}, \frac{200}{1133}, \frac{502}{1133}, \frac{203}{1133}, \frac{454}{1133})$ $+\frac{1}{1133}\sqrt{2394078e^2} \otimes e_5$	{13456789, 1345789, 145679, 14579, 23467, 2347, 24678, 2478}
931:84	$0, 0, 0, 0, 0, 0, \frac{2}{2245}\sqrt{270655e^{12}}, \frac{2}{2245}\sqrt{162393e^{13}},$ $\frac{4}{2245}\sqrt{72409e^{17}} + \frac{4}{2245}\sqrt{18278e^{24}} + \frac{18}{2245}\sqrt{703e^{38}}$	$(\frac{462}{2245}, -\frac{216}{2245}, \frac{123}{2245}, \frac{924}{2245}, -\frac{944}{2245}, -\frac{482}{2245}, \frac{246}{2245}, \frac{117}{2245}, \frac{708}{2245})$ $+\frac{2}{2245}\sqrt{530765e^4} \otimes e_6 + \frac{2}{2245}\sqrt{855551e^1} \otimes e_5$	{1367, 1678, 2356789, 25679}
931:86	$0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{1526e^{12}}, \frac{2}{281}\sqrt{6758e^{13}},$ $\frac{4}{281}\sqrt{327e^{18}} + \frac{2}{281}\sqrt{545e^{27}} + \frac{2}{281}\sqrt{545e^{45}}$	$(-\frac{28}{281}, \frac{41}{281}, \frac{110}{281}, \frac{136}{281}, -\frac{82}{281}, -\frac{108}{281}, \frac{13}{281}, \frac{82}{281}, \frac{54}{281})$ $+\frac{218}{281}e^4 \otimes e_5 + \frac{4}{281}\sqrt{3815e^3} \otimes e_6$	{23489, 23589, 34789, 35789}
931:86	$0, 0, 0, 0, 0, 0, \frac{2}{1029}\sqrt{30362e^{12}}, \frac{68}{1029}\sqrt{57e^{13}},$ $\frac{4}{1029}\sqrt{17765e^{18}} + \frac{4}{1029}\sqrt{1938e^{27}} + \frac{4}{1029}\sqrt{1938e^{45}}$	$(\frac{188}{1029}, \frac{18}{343}, -\frac{80}{1029}, \frac{157}{343}, -\frac{25}{147}, -\frac{458}{1029}, \frac{242}{1029}, \frac{36}{343}, \frac{296}{1029})$ $+\frac{2}{1029}\sqrt{187986e^1} \otimes e_6 + \frac{646}{1029}e^4 \otimes e_5$	{1248, 1258, 1478, 1578}
931:86	$0, 0, 0, 0, 0, 0, \frac{2}{269}\sqrt{546e^{12}}, \frac{26}{269}\sqrt{7e^{13}},$ $\frac{2}{269}\sqrt{3458e^{18}} + \frac{14}{269}\sqrt{65e^{27}} + \frac{14}{269}\sqrt{65e^{45}}$	$(-\frac{12}{269}, \frac{4}{269}, \frac{20}{269}, \frac{89}{269}, -\frac{93}{269}, \frac{178}{269}, -\frac{8}{269}, \frac{8}{269}, -\frac{4}{269})$ $+\frac{182}{269}e^4 \otimes e_5 + \frac{2}{269}\sqrt{13195e^6} \otimes e_9$	{23489, 23589, 34789, 35789}
931:86	$0, 0, 0, 0, 0, 0, \frac{2}{339}\sqrt{3794e^{12}}, \frac{2}{339}\sqrt{542e^{13}},$ $\frac{4}{339}\sqrt{542e^{18}} + \frac{3}{339}\sqrt{4065e^{27}} + \frac{2}{339}\sqrt{4065e^{45}}$	$(\frac{28}{339}, \frac{13}{113}, \frac{50}{339}, \frac{108}{113}, -\frac{218}{339}, \frac{68}{339}, \frac{67}{339}, \frac{26}{113}, \frac{106}{339})$ $+\frac{542}{339}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 134679, 13479, 135679, 13579}
931:86	$0, 0, 0, 0, 0, 0, \frac{4}{3821}\sqrt{337038e^{12}}, \frac{2}{3821}\sqrt{296322e^{13}},$ $\frac{312}{3821}\sqrt{29e^{18}} + \frac{2}{3821}\sqrt{1259934e^{27}} + \frac{2}{3821}\sqrt{7917e^{45}}$	$(\frac{100}{3821}, \frac{384}{3821}, \frac{668}{3821}, \frac{1565}{3821}, -\frac{697}{3821}, -\frac{1878}{3821}, \frac{484}{3821}, \frac{768}{3821}, \frac{868}{3821})$ $+\frac{2262}{3821}e^4 \otimes e_5 + \frac{4}{3821}\sqrt{645801e^2} \otimes e_6$	{2478, 2578, 468, 568}
931:86	$0, 0, 0, 0, 0, 0, \frac{1}{86}\sqrt{1526e^{12}}, \frac{1}{86}\sqrt{6758e^{13}},$ $\frac{1}{43}\sqrt{327e^{18}} + \frac{1}{86}\sqrt{545e^{27}} + \frac{1}{86}\sqrt{545e^{45}}$	$(-\frac{7}{43}, \frac{41}{172}, \frac{55}{86}, \frac{27}{172}, \frac{27}{172}, -\frac{27}{43}, \frac{13}{172}, \frac{41}{86}, \frac{27}{86})$ $+\frac{1}{43}\sqrt{3815e^3} \otimes e_6$	{1245678, 12678, 14568, 168, 23489, 34789}
931:86	$0, 0, 0, 0, 0, 0, \frac{2}{1345}\sqrt{337038e^{12}}, \frac{1}{1345}\sqrt{296322e^{13}},$ $\frac{156}{1345}\sqrt{29e^{18}} + \frac{2}{1345}\sqrt{1259934e^{27}} + \frac{2}{1345}\sqrt{7917e^{45}}$	$(\frac{10}{269}, \frac{192}{1345}, \frac{334}{1345}, \frac{217}{1345}, \frac{217}{1345}, -\frac{939}{1345}, \frac{242}{1345}, \frac{384}{1345}, \frac{434}{1345})$ $+\frac{2}{1345}\sqrt{645801e^2} \otimes e_6$	{1234589, 12389, 13456789, 136789, 2478, 468}
931:86	$0, 0, 0, 0, 0, 0, \frac{10}{1361}\sqrt{3446e^{12}}, \frac{7}{1361}\sqrt{3446e^{13}},$ $\frac{2}{1361}\sqrt{87873e^{18}} + \frac{2}{1361}\sqrt{44798e^{27}} + \frac{1}{1361}\sqrt{1740230e^{45}}$	$(\frac{200}{1361}, \frac{199}{1361}, \frac{198}{1361}, \frac{856}{1361}, -\frac{258}{1361}, -\frac{867}{1361}, \frac{399}{1361}, \frac{398}{1361}, \frac{598}{1361})$ $+\frac{2}{1361}\sqrt{959711e^4} \otimes e_6$	{12345, 1236, 13457, 1367, 2479, 25679, 49, 569}
931:86	$0, 0, 0, 0, 0, 0, \frac{1}{89}\sqrt{546e^{12}}, \frac{13}{89}\sqrt{7e^{13}},$ $\frac{1}{89}\sqrt{3458e^{18}} + \frac{7}{89}\sqrt{65e^{27}} + \frac{7}{89}\sqrt{65e^{45}}$	$(-\frac{6}{89}, \frac{2}{89}, \frac{10}{89}, -\frac{1}{89}, -\frac{1}{89}, 1, -\frac{4}{89}, \frac{4}{89}, -\frac{2}{89})$ $+\frac{1}{89}\sqrt{13195e^6} \otimes e_9$	{1245678, 12678, 14568, 168, 23489, 34789}
931:86	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{30362e^{12}}, \frac{34}{353}\sqrt{57e^{13}},$ $\frac{2}{353}\sqrt{17765e^{18}} + \frac{2}{353}\sqrt{1938e^{27}} + \frac{2}{353}\sqrt{1938e^{45}}$	$(\frac{94}{353}, \frac{27}{353}, -\frac{40}{353}, \frac{74}{353}, \frac{74}{353}, -\frac{229}{353}, \frac{121}{353}, \frac{54}{353}, \frac{148}{353})$ $+\frac{1}{353}\sqrt{187986e^1} \otimes e_6$	{1248, 1478, 23456789, 236789, 345689, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:87	$0, 0, 0, 0, 0, 0, -\frac{2}{401}\sqrt{26909}e^{12}, \frac{5}{401}\sqrt{758}e^{13},$ $\frac{7}{401}\sqrt{2274}e^{27} + \frac{2}{401}\sqrt{3790}e^{38} + \frac{1}{401}\sqrt{3790}e^{45}$	$(-\frac{50}{401}, \frac{112}{401}, \frac{112}{401}, \frac{87}{401}, \frac{87}{401}, -\frac{267}{401}, \frac{62}{401}, \frac{62}{401}, \frac{174}{401})$ $+ \frac{2}{401}\sqrt{63293}e^2 \otimes e_6$	{1234589, 12389, 12459, 129, 13456789, 136789, 145679, 1679, 2347, 2478, 346, 468, 1234589, 12389, 12459, 129, 13456789, 136789, 145679, 1679, 2347, 2478, 346, 468}
931:87	$0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{26909}e^{12}, \frac{5}{401}\sqrt{758}e^{13},$ $\frac{7}{401}\sqrt{2274}e^{27} + \frac{2}{401}\sqrt{3790}e^{38} + \frac{1}{401}\sqrt{3790}e^{45}$	$(-\frac{50}{401}, \frac{112}{401}, \frac{112}{401}, \frac{87}{401}, \frac{87}{401}, -\frac{267}{401}, \frac{62}{401}, \frac{62}{401}, \frac{174}{401})$ $+ \frac{2}{401}\sqrt{63293}e^2 \otimes e_6$	{1234589, 12389, 12459, 129, 13456789, 136789, 145679, 1679, 2347, 2478, 346, 468, 1234589, 12389, 12459, 129, 13456789, 136789, 145679, 1679, 2347, 2478, 346, 468}
931:87	$0, 0, 0, 0, 0, 0, -\frac{1}{26}\sqrt{377}e^{12}, \frac{1}{26}\sqrt{377}e^{13},$ $\frac{1}{26}\sqrt{58}e^{27} + \frac{1}{26}\sqrt{58}e^{38} + \frac{1}{26}\sqrt{58}e^{45}$	$(\frac{1}{2}, -\frac{5}{52}, -\frac{5}{52}, \frac{2}{13}, \frac{2}{13}, -\frac{8}{13}, \frac{21}{52}, \frac{21}{52}, \frac{4}{13})$ $+ \frac{1}{26}\sqrt{1218}e^1 \otimes e_6$	{12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6, 12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6}
931:87	$0, 0, 0, 0, 0, 0, \frac{1}{26}\sqrt{377}e^{12}, \frac{1}{26}\sqrt{377}e^{13},$ $\frac{1}{26}\sqrt{58}e^{27} + \frac{1}{26}\sqrt{58}e^{38} + \frac{1}{26}\sqrt{58}e^{45}$	$(\frac{1}{2}, -\frac{5}{52}, -\frac{5}{52}, \frac{2}{13}, \frac{2}{13}, -\frac{8}{13}, \frac{21}{52}, \frac{21}{52}, \frac{4}{13})$ $+ \frac{1}{26}\sqrt{1218}e^1 \otimes e_6$	{12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6, 12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6}
931:87	$0, 0, 0, 0, 0, 0, -\frac{4}{1181}\sqrt{26909}e^{12}, \frac{10}{1181}\sqrt{758}e^{13},$ $\frac{14}{1181}\sqrt{2274}e^{27} + \frac{4}{1181}\sqrt{3790}e^{38} + \frac{1}{1181}\sqrt{3790}e^{45}$	$(-\frac{100}{1181}, \frac{224}{1181}, \frac{224}{1181}, \frac{553}{1181}, -\frac{205}{1181}, -\frac{534}{1181}, \frac{124}{1181}, \frac{124}{1181}, \frac{348}{1181})$ $+ \frac{4}{1181}\sqrt{63293}e^2 \otimes e_6 + \frac{758}{1181}e^4 \otimes e_5$	{2347, 2357, 2478, 2578, 346, 356, 468, 568, 2347, 2357, 2478, 2578, 346, 356, 468, 568}
931:87	$0, 0, 0, 0, 0, 0, \frac{4}{1181}\sqrt{26909}e^{12}, \frac{10}{1181}\sqrt{758}e^{13},$ $\frac{14}{1181}\sqrt{2274}e^{27} + \frac{4}{1181}\sqrt{3790}e^{38} + \frac{1}{1181}\sqrt{3790}e^{45}$	$(-\frac{100}{1181}, \frac{224}{1181}, \frac{224}{1181}, \frac{553}{1181}, -\frac{205}{1181}, -\frac{534}{1181}, \frac{124}{1181}, \frac{124}{1181}, \frac{348}{1181})$ $+ \frac{4}{1181}\sqrt{63293}e^2 \otimes e_6 + \frac{758}{1181}e^4 \otimes e_5$	{2347, 2357, 2478, 2578, 346, 356, 468, 568, 2347, 2357, 2478, 2578, 346, 356, 468, 568}
931:87	$0, 0, 0, 0, 0, 0, -\frac{1}{105}\sqrt{1070}e^{12}, \frac{1}{105}\sqrt{1070}e^{13},$ $\frac{1}{105}\sqrt{4494}e^{27} + \frac{1}{105}\sqrt{4494}e^{38} + \frac{1}{105}\sqrt{4494}e^{45}$	$(\frac{2}{21}, -\frac{2}{35}, -\frac{2}{35}, -\frac{1}{105}, -\frac{1}{105}, 1, \frac{4}{105}, \frac{4}{105}, -\frac{2}{105})$ $+ \frac{1}{105}\sqrt{18190}e^6 \otimes e_9$	{12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6, 12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6}
931:87	$0, 0, 0, 0, 0, 0, \frac{1}{105}\sqrt{1070}e^{12}, \frac{1}{105}\sqrt{1070}e^{13},$ $\frac{1}{105}\sqrt{4494}e^{27} + \frac{1}{105}\sqrt{4494}e^{38} + \frac{1}{105}\sqrt{4494}e^{45}$	$(\frac{2}{21}, -\frac{2}{35}, -\frac{2}{35}, -\frac{1}{105}, -\frac{1}{105}, 1, \frac{4}{105}, \frac{4}{105}, -\frac{2}{105})$ $+ \frac{1}{105}\sqrt{18190}e^6 \otimes e_9$	{12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6, 12349, 12489, 14789, 2345678, 23678, 24567, 267, 456, 6}
931:87	$0, 0, 0, 0, 0, 0, -\frac{2}{99}\sqrt{395}e^{12}, \frac{2}{99}\sqrt{395}e^{13},$ $\frac{4}{99}\sqrt{79}e^{27} + \frac{4}{99}\sqrt{79}e^{38} + \frac{4}{99}\sqrt{79}e^{45}$	$(\frac{10}{99}, \frac{1}{9}, \frac{1}{9}, \frac{95}{99}, -\frac{7}{11}, \frac{20}{99}, \frac{7}{33}, \frac{7}{33}, \frac{32}{99})$ $+ \frac{158}{99}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789}
931:87	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{395}e^{12}, \frac{2}{99}\sqrt{395}e^{13},$ $\frac{4}{99}\sqrt{79}e^{27} + \frac{4}{99}\sqrt{79}e^{38} + \frac{4}{99}\sqrt{79}e^{45}$	$(\frac{10}{99}, \frac{1}{9}, \frac{1}{9}, \frac{95}{99}, -\frac{7}{11}, \frac{20}{99}, \frac{7}{33}, \frac{7}{33}, \frac{32}{99})$ $+ \frac{158}{99}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789}
931:87	$0, 0, 0, 0, 0, 0, -\frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13},$ $\frac{1}{11}\sqrt{14}e^{27} + \frac{1}{11}\sqrt{14}e^{38} + \frac{4}{11}\sqrt{7}e^{45}$	$(\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{7}{11}, -\frac{2}{11}, -\frac{7}{11}, \frac{3}{11}, \frac{3}{11}, \frac{5}{11})$ $+ \frac{6}{11}\sqrt{7}e^4 \otimes e_6$	{12345, 1236, 12458, 1268, 14578, 1678, 234789, 2356789, 2479, 25679, 49, 569, 12345, 1236, 12458, 1268, 14578, 1678, 234789, 2356789, 2479, 25679, 49, 569}
931:87	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{14}e^{13},$ $\frac{1}{11}\sqrt{14}e^{27} + \frac{1}{11}\sqrt{14}e^{38} + \frac{4}{11}\sqrt{7}e^{45}$	$(\frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{7}{11}, -\frac{2}{11}, -\frac{7}{11}, \frac{3}{11}, \frac{3}{11}, \frac{5}{11})$ $+ \frac{6}{11}\sqrt{7}e^4 \otimes e_6$	{12345, 1236, 12458, 1268, 14578, 1678, 234789, 2356789, 2479, 25679, 49, 569, 12345, 1236, 12458, 1268, 14578, 1678, 234789, 2356789, 2479, 25679, 49, 569}
931:87	$0, 0, 0, 0, 0, 0, -\frac{2}{317}\sqrt{1070}e^{12}, \frac{2}{317}\sqrt{1070}e^{13},$ $\frac{2}{317}\sqrt{4494}e^{27} + \frac{2}{317}\sqrt{4494}e^{38} + \frac{2}{317}\sqrt{4494}e^{45}$	$(\frac{20}{317}, -\frac{12}{317}, -\frac{12}{317}, \frac{105}{317}, -\frac{109}{317}, \frac{210}{317}, \frac{8}{317}, \frac{8}{317}, -\frac{4}{317})$ $+ \frac{214}{317}e^4 \otimes e_5 + \frac{2}{317}\sqrt{18190}e^6 \otimes e_9$	{12349, 12359, 12489, 12589, 14789, 15789, 12349, 12359, 12489, 12589, 14789, 15789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:87	$0, 0, 0, 0, 0, 0, \frac{2}{317}\sqrt{1070}e^{12}, \frac{2}{317}\sqrt{1070}e^{13},$ $\frac{2}{317}\sqrt{4494}e^{27} + \frac{2}{317}\sqrt{4494}e^{38} + \frac{2}{317}\sqrt{4494}e^{45}$	$(\frac{20}{317}, -\frac{12}{317}, -\frac{12}{317}, \frac{105}{317}, -\frac{109}{317}, \frac{210}{317}, \frac{8}{317}, \frac{8}{317}, -\frac{4}{317})$ $+ \frac{214}{317}e^4 \otimes e_5 + \frac{2}{317}\sqrt{18190}e^6 \otimes e_9$	{12349, 12359, 12489, 12589, 14789, 15789, 12349, 12359, 12489, 12589, 14789, 15789}
931:87	$0, 0, 0, 0, 0, 0, -\frac{2}{81}\sqrt{377}e^{12}, \frac{2}{81}\sqrt{377}e^{13},$ $\frac{2}{81}\sqrt{58}e^{27} + \frac{2}{81}\sqrt{58}e^{38} + \frac{2}{81}\sqrt{58}e^{45}$	$(\frac{26}{81}, -\frac{5}{81}, -\frac{5}{81}, \frac{37}{81}, -\frac{7}{27}, -\frac{32}{81}, \frac{7}{27}, \frac{7}{27}, \frac{16}{81})$ $+ \frac{2}{81}\sqrt{1218}e^1 \otimes e_6 + \frac{58}{81}e^4 \otimes e_5$	{12349, 12359, 12489, 12589, 14789, 15789, 12349, 12359, 12489, 12589, 14789, 15789}
931:87	$0, 0, 0, 0, 0, 0, \frac{2}{81}\sqrt{377}e^{12}, \frac{2}{81}\sqrt{377}e^{13},$ $\frac{2}{81}\sqrt{58}e^{27} + \frac{2}{81}\sqrt{58}e^{38} + \frac{2}{81}\sqrt{58}e^{45}$	$(\frac{26}{81}, -\frac{5}{81}, -\frac{5}{81}, \frac{37}{81}, -\frac{7}{27}, -\frac{32}{81}, \frac{7}{27}, \frac{7}{27}, \frac{16}{81})$ $+ \frac{2}{81}\sqrt{1218}e^1 \otimes e_6 + \frac{58}{81}e^4 \otimes e_5$	{12349, 12359, 12489, 12589, 14789, 15789, 12349, 12359, 12489, 12589, 14789, 15789}
931:89	$0, 0, 0, 0, 0, 0, -\frac{10}{49}\sqrt{15}e^{12}, \frac{10}{49}\sqrt{15}e^{13},$ $\frac{10}{49}\sqrt{11}e^{14} + \frac{20}{49}e^{27} + \frac{20}{49}e^{38} + \frac{20}{49}e^{56}$	$(\frac{30}{49}, -\frac{10}{49}, -\frac{10}{49}, -\frac{20}{49}, \frac{5}{49}, \frac{5}{49}, \frac{20}{49}, \frac{20}{49}, \frac{10}{49})$ $+ \frac{20}{49}\sqrt{10}e^1 \otimes e_4$	{2345678, 23478, 24567, 247, 4, 456, 2345678, 23478, 24567, 247, 4, 456}
931:89	$0, 0, 0, 0, 0, 0, \frac{10}{49}\sqrt{15}e^{12}, \frac{10}{49}\sqrt{15}e^{13},$ $\frac{10}{49}\sqrt{11}e^{14} + \frac{20}{49}e^{27} + \frac{20}{49}e^{38} + \frac{20}{49}e^{56}$	$(\frac{30}{49}, -\frac{10}{49}, -\frac{10}{49}, -\frac{20}{49}, \frac{5}{49}, \frac{5}{49}, \frac{20}{49}, \frac{20}{49}, \frac{10}{49})$ $+ \frac{20}{49}\sqrt{10}e^1 \otimes e_4$	{2345678, 23478, 24567, 247, 4, 456, 2345678, 23478, 24567, 247, 4, 456}
931:89	$0, 0, 0, 0, 0, 0, -\frac{5}{47}\sqrt{15}e^{12}, \frac{5}{47}\sqrt{15}e^{13},$ $\frac{5}{47}\sqrt{3}e^{14} + \frac{10}{47}\sqrt{3}e^{27} + \frac{10}{47}\sqrt{3}e^{38} + \frac{10}{47}\sqrt{3}e^{56}$	$(\frac{5}{47}, \frac{5}{47}, \frac{5}{47}, \frac{10}{47}, \frac{45}{47}, -\frac{30}{47}, \frac{10}{47}, \frac{10}{47}, \frac{15}{47})$ $+ \frac{75}{47}e^5 \otimes e_6$	{123459, 123469, 124589, 124689, 145789, 146789, 123459, 123469, 124589, 124689, 145789, 146789}
931:89	$0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{15}e^{12}, \frac{5}{47}\sqrt{15}e^{13},$ $\frac{5}{47}\sqrt{3}e^{14} + \frac{10}{47}\sqrt{3}e^{27} + \frac{10}{47}\sqrt{3}e^{38} + \frac{10}{47}\sqrt{3}e^{56}$	$(\frac{5}{47}, \frac{5}{47}, \frac{5}{47}, \frac{10}{47}, \frac{45}{47}, -\frac{30}{47}, \frac{10}{47}, \frac{10}{47}, \frac{15}{47})$ $+ \frac{75}{47}e^5 \otimes e_6$	{123459, 123469, 124589, 124689, 145789, 146789, 123459, 123469, 124589, 124689, 145789, 146789}
931:90	$0, 0, 0, 0, 0, 0, \frac{5}{41}\sqrt{70}e^{12}, \frac{10}{41}\sqrt{5}e^{13},$ $\frac{5}{41}\sqrt{19}e^{17} + \frac{5}{41}\sqrt{26}e^{24} + \frac{15}{41}e^{38} + \frac{15}{41}e^{56}$	$(-\frac{10}{41}, \frac{30}{41}, \frac{10}{41}, -\frac{20}{41}, \frac{5}{41}, \frac{5}{41}, \frac{20}{41}, 0, \frac{10}{41})$ $+ \frac{15}{41}\sqrt{15}e^2 \otimes e_4$	{1345678, 13478, 14567, 147}
931:90	$0, 0, 0, 0, 0, 0, \frac{10}{219}\sqrt{70}e^{12}, \frac{10}{219}\sqrt{70}e^{13},$ $\frac{20}{219}\sqrt{7}e^{17} + \frac{20}{219}\sqrt{7}e^{24} + \frac{10}{73}\sqrt{7}e^{38} + \frac{10}{73}\sqrt{7}e^{56}$	$(\frac{20}{219}, \frac{10}{73}, \frac{25}{219}, \frac{40}{219}, \frac{70}{219}, -\frac{140}{219}, \frac{50}{219}, \frac{15}{73}, \frac{70}{219})$ $+ \frac{350}{219}e^5 \otimes e_6$	{12359, 12369, 12589, 12689}
931:92	$0, 0, 0, 0, 0, 0, \frac{4}{239}\sqrt{570}e^{12}, \frac{4}{239}\sqrt{570}e^{34}, \frac{8}{239}\sqrt{798}e^{17} + \frac{4}{239}\sqrt{494}e^{38}$	$(\frac{140}{239}, -\frac{164}{239}, \frac{43}{239}, \frac{30}{239}, \frac{45}{239}, \frac{45}{239}, -\frac{24}{239}, \frac{73}{239}, \frac{116}{239})$ $+ \frac{8}{239}\sqrt{1843}e^1 \otimes e_2$	{134567, 13457, 1347, 145678, 14578, 1478, 2356789, 235789, 23789, 25679, 2579, 279}
931:92	$0, 0, 0, 0, 0, 0, \frac{1}{2433}\sqrt{1769602}e^{12}, \frac{2}{811}\sqrt{5455}e^{34},$ $\frac{2}{811}\sqrt{31639}e^{17} + \frac{2}{2433}\sqrt{45822}e^{38}$	$(\frac{149}{2433}, \frac{410}{2433}, \frac{88}{811}, \frac{60}{811}, -\frac{314}{811}, -\frac{227}{811}, \frac{559}{2433}, \frac{148}{811}, \frac{236}{811})$ $+ \frac{1}{2433}\sqrt{2075082}e^2 \otimes e_6 + \frac{2}{2433}\sqrt{661146}e^1 \otimes e_5$	{12389, 129, 13467, 14678, 235789, 2579, 3456, 4568}
931:92	$0, 0, 0, 0, 0, 0, \frac{10}{233}\sqrt{110}e^{12}, \frac{10}{233}\sqrt{110}e^{34}, \frac{5}{233}\sqrt{330}e^{17} + \frac{5}{233}\sqrt{330}e^{38}$	$(\frac{55}{233}, -\frac{13}{233}, \frac{55}{233}, -\frac{13}{233}, -\frac{70}{233}, -\frac{70}{233}, \frac{42}{233}, \frac{42}{233}, \frac{97}{233})$ $+ \frac{5}{233}\sqrt{1010}e^1 \otimes e_5 + \frac{5}{233}\sqrt{1010}e^3 \otimes e_6$	{12349, 124689, 1378, 167, 2456789, 56}
931:92	$0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{66}e^{12}, \frac{1}{16}\sqrt{66}e^{34}, \frac{1}{16}\sqrt{11}e^{17} + \frac{1}{16}\sqrt{11}e^{38}$	$(-\frac{3}{32}, \frac{3}{8}, -\frac{3}{32}, \frac{3}{8}, -\frac{5}{16}, -\frac{5}{16}, \frac{9}{32}, \frac{9}{32}, \frac{3}{16})$ $+ \frac{1}{16}\sqrt{154}e^2 \otimes e_5 + \frac{1}{16}\sqrt{154}e^4 \otimes e_6$	{12349, 12489, 135678, 1567, 24789, 56}
931:92	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{138}e^{12}, \frac{1}{31}\sqrt{138}e^{34}, \frac{1}{62}\sqrt{2139}e^{17} + \frac{1}{62}\sqrt{2139}e^{38}$	$(-\frac{15}{124}, \frac{4}{31}, -\frac{15}{124}, \frac{4}{31}, 1, \frac{6}{31}, \frac{1}{124}, \frac{1}{124}, -\frac{7}{62})$ $+ \frac{5}{31}\sqrt{69}e^5 \otimes e_9$	{123469, 12349, 124689, 12489, 135678, 13578, 1567, 157, 246789, 24789, 5, 56}
931:92	$0, 0, 0, 0, 0, 0, \frac{6}{4865}\sqrt{13141}e^{12}, \frac{2}{4865}\sqrt{533370}e^{34},$ $\frac{12}{4865}\sqrt{16233}e^{17} + \frac{2}{4865}\sqrt{762178}e^{38}$	$(\frac{701}{4865}, -\frac{169}{973}, \frac{394}{4865}, -\frac{33}{695}, \frac{2103}{4865}, -\frac{1152}{4865}, -\frac{144}{4865}, \frac{163}{4865}, \frac{557}{4865})$ $+ \frac{2}{4865}\sqrt{889723}e^1 \otimes e_2 + \frac{4}{4865}\sqrt{317703}e^5 \otimes e_9 + \frac{6}{4865}\sqrt{138367}e^3 \otimes e_6$	{13578, 1567, 23479, 246789}
931:92	$0, 0, 0, 0, 0, 0, \frac{24}{539}\sqrt{114}e^{12}, \frac{6}{539}\sqrt{437}e^{34}, \frac{24}{539}\sqrt{95}e^{17} + \frac{24}{539}\sqrt{95}e^{38}$	$(-\frac{107}{539}, \frac{192}{539}, -\frac{34}{539}, \frac{46}{539}, \frac{320}{539}, -\frac{150}{539}, \frac{85}{539}, \frac{12}{539}, -\frac{2}{49})$ $+ \frac{6}{539}\sqrt{4161}e^2 \otimes e_6 + \frac{6}{539}\sqrt{4769}e^5 \otimes e_9$	{12349, 12489, 135678, 1567, 23479, 24789, 3568, 56}
931:92	$0, 0, 0, 0, 0, 0, \frac{4}{391}\sqrt{570}e^{12}, \frac{4}{391}\sqrt{570}e^{34}, \frac{8}{391}\sqrt{798}e^{17} + \frac{4}{391}\sqrt{494}e^{38}$	$(\frac{140}{391}, -\frac{164}{391}, \frac{43}{391}, \frac{30}{391}, \frac{197}{391}, -\frac{107}{391}, -\frac{24}{391}, \frac{73}{391}, \frac{116}{391})$ $+ \frac{304}{391}e^5 \otimes e_6 + \frac{8}{391}\sqrt{1843}e^1 \otimes e_2$	{13457, 13467, 14578, 14678, 235789, 236789, 2579, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:92	$0, 0, 0, 0, 0, \frac{26}{5465}\sqrt{1073}e^{12}, \frac{4}{5465}\sqrt{169534}e^{34},$ $\frac{2}{5465}\sqrt{1319790}e^{17} + \frac{2}{5465}\sqrt{414178}e^{38}$	$(\frac{796}{5465}, -\frac{270}{1093}, -\frac{511}{5465}, \frac{1264}{5465}, \frac{2388}{5465}, -\frac{882}{5465}, -\frac{554}{5465}, \frac{753}{5465}, \frac{242}{5465})$ $+ \frac{2}{5465}\sqrt{1490397}e^4 \otimes e_6 + \frac{4}{5465}\sqrt{452806}e^1 \otimes e_2 + \frac{6}{5465}\sqrt{224257}e^5 \otimes e_9$	{135678, 1567, 23479, 24789}
931:92	$0, 0, 0, 0, 0, \frac{2}{907}\sqrt{11037}e^{12}, \frac{16}{907}\sqrt{849}e^{34},$ $\frac{8}{907}\sqrt{1698}e^{17} + \frac{8}{907}\sqrt{2830}e^{38}$	$(\frac{313}{907}, -\frac{253}{907}, \frac{224}{907}, -\frac{75}{907}, -\frac{342}{907}, \frac{117}{907}, \frac{60}{907}, \frac{149}{907}, \frac{373}{907})$ $+ \frac{2}{907}\sqrt{93673}e^1 \otimes e_2 + \frac{6}{907}\sqrt{14433}e^3 \otimes e_5$	{13678, 1378, 1567, 157, 234679, 23479, 2456789, 245789}
931:92	$0, 0, 0, 0, 0, \frac{1}{183}\sqrt{28426}e^{12}, \frac{2}{183}\sqrt{1398}e^{34}, \frac{1}{61}\sqrt{466}e^{17} + \frac{1}{61}\sqrt{466}e^{38}$	$(-\frac{34}{183}, \frac{2}{3}, \frac{5}{61}, \frac{8}{61}, -\frac{37}{61}, \frac{12}{61}, \frac{88}{183}, \frac{13}{61}, \frac{18}{61})$ $+ \frac{7}{183}\sqrt{1398}e^2 \otimes e_5$	{123469, 12349, 124689, 12489, 135678, 13578, 1567, 157, 234679, 23479, 246789, 24789, 3568, 358, 5, 56}
931:92	$0, 0, 0, 0, 0, \frac{2}{803}\sqrt{6495}e^{12}, \frac{2}{803}\sqrt{6495}e^{34},$ $\frac{9}{803}\sqrt{2598}e^{17} + \frac{2}{803}\sqrt{16021}e^{38}$	$(\frac{155}{803}, -\frac{278}{803}, -\frac{14}{803}, \frac{60}{803}, \frac{465}{803}, \frac{90}{803}, -\frac{123}{803}, \frac{46}{803}, \frac{32}{803})$ $+ \frac{26}{803}\sqrt{433}e^1 \otimes e_2 + \frac{5}{803}\sqrt{12990}e^5 \otimes e_9$	{135678, 13578, 1567, 157, 234679, 23479, 246789, 24789}
931:92	$0, 0, 0, 0, 0, \frac{3}{221}\sqrt{326}e^{12}, \frac{3}{221}\sqrt{326}e^{34},$ $\frac{1}{221}\sqrt{10106}e^{17} + \frac{1}{221}\sqrt{10106}e^{38}$	$(\frac{84}{221}, -\frac{79}{221}, \frac{84}{221}, -\frac{79}{221}, \frac{27}{221}, \frac{27}{221}, \frac{5}{221}, \frac{5}{221}, \frac{89}{221})$ $+ \frac{1}{221}\sqrt{31622}e^1 \otimes e_2 + \frac{1}{221}\sqrt{31622}e^3 \otimes e_4$	{135678, 13578, 1378, 2456789, 245789, 24789}
931:92	$0, 0, 0, 0, 0, \frac{4}{2021}\sqrt{61639}e^{12}, \frac{1}{2021}\sqrt{779210}e^{34},$ $\frac{1}{2021}\sqrt{1035070}e^{17} + \frac{3}{2021}\sqrt{16282}e^{38}$	$(\frac{403}{2021}, -\frac{168}{2021}, -\frac{16}{2021}, \frac{670}{2021}, -\frac{760}{2021}, \frac{493}{2021}, \frac{5}{2021}, \frac{654}{2021}, \frac{638}{2021})$ $+ \frac{1}{2021}\sqrt{1742174}e^4 \otimes e_6 + \frac{4}{2021}\sqrt{147701}e^1 \otimes e_5$	{123689, 1269, 1347, 1478, 2356789, 25679, 345, 458}
931:92	$0, 0, 0, 0, 0, \frac{4}{199}\sqrt{137}e^{12}, \frac{1}{199}\sqrt{10138}e^{34},$ $\frac{1}{199}\sqrt{10686}e^{17} + \frac{1}{199}\sqrt{1370}e^{38}$	$(\frac{65}{199}, -\frac{72}{199}, -\frac{8}{199}, \frac{74}{199}, -\frac{63}{199}, \frac{24}{199}, -\frac{7}{199}, \frac{66}{199}, \frac{58}{199})$ $+ \frac{1}{199}\sqrt{23838}e^4 \otimes e_5 + \frac{4}{199}\sqrt{1507}e^1 \otimes e_2$	{13467, 1347, 14678, 1478, 2356789, 235789, 25679, 2579}
931:92	$0, 0, 0, 0, 0, \frac{2}{2249}\sqrt{218127}e^{12}, \frac{4}{2249}\sqrt{10857}e^{34},$ $\frac{1}{2249}\sqrt{1371930}e^{17} + \frac{2}{2249}\sqrt{80934}e^{38}$	$(\frac{189}{2249}, -\frac{178}{2249}, \frac{12}{2249}, \frac{176}{2249}, \frac{1187}{2249}, -\frac{798}{2249}, \frac{11}{2249}, \frac{188}{2249}, \frac{200}{2249})$ $+ \frac{1}{2249}\sqrt{1822002}e^5 \otimes e_9 + \frac{6}{2249}\sqrt{58233}e^1 \otimes e_6$	{12349, 12489, 13578, 157, 234679, 246789, 3568, 56}
931:92	$0, 0, 0, 0, 0, \frac{6}{617}\sqrt{226}e^{12}, \frac{6}{617}\sqrt{226}e^{34}, \frac{8}{617}\sqrt{791}e^{17} + \frac{8}{617}\sqrt{791}e^{38}$	$(\frac{93}{617}, -\frac{133}{617}, \frac{93}{617}, -\frac{133}{617}, \frac{279}{617}, \frac{54}{617}, -\frac{40}{617}, -\frac{40}{617}, \frac{53}{617})$ $+ \frac{26}{617}\sqrt{113}e^1 \otimes e_2 + \frac{26}{617}\sqrt{113}e^3 \otimes e_4 + \frac{30}{617}\sqrt{113}e^5 \otimes e_9$	{135678, 13578, 246789, 24789}
931:92	$0, 0, 0, 0, 0, \frac{6}{605}\sqrt{326}e^{12}, \frac{6}{605}\sqrt{326}e^{34},$ $\frac{2}{605}\sqrt{10106}e^{17} + \frac{2}{605}\sqrt{10106}e^{38}$	$(\frac{168}{605}, -\frac{158}{605}, \frac{168}{605}, -\frac{158}{605}, \frac{217}{605}, -\frac{109}{605}, \frac{2}{605}, \frac{2}{605}, \frac{178}{605})$ $+ \frac{2}{605}\sqrt{31622}e^1 \otimes e_2 + \frac{2}{605}\sqrt{31622}e^3 \otimes e_4 + \frac{326}{605}e^5 \otimes e_6$	{13578, 13678, 245789, 246789}
931:92	$0, 0, 0, 0, 0, \frac{4}{59}\sqrt{47}e^{12}, \frac{4}{59}\sqrt{47}e^{34}, \frac{2}{59}\sqrt{141}e^{17} + \frac{2}{59}\sqrt{141}e^{38}$	$(\frac{5}{59}, \frac{8}{59}, \frac{5}{59}, \frac{8}{59}, 1, -\frac{35}{59}, \frac{13}{59}, \frac{13}{59}, \frac{18}{59})$ $+ \frac{94}{59}e^5 \otimes e_6$	{123459, 123469, 124589, 124689, 13578, 13678, 157, 167, 245789, 246789, 5, 6}
931:92	$0, 0, 0, 0, 0, \frac{8}{741}\sqrt{5434}e^{12}, \frac{8}{247}\sqrt{110}e^{34}, \frac{8}{247}\sqrt{638}e^{17} + \frac{16}{741}\sqrt{231}e^{38}$	$(\frac{233}{741}, -\frac{112}{741}, \frac{44}{247}, \frac{30}{247}, -\frac{157}{247}, \frac{45}{247}, \frac{121}{741}, \frac{74}{247}, \frac{118}{247})$ $+ \frac{16}{741}\sqrt{3333}e^1 \otimes e_5$	{123689, 12389, 1269, 129, 13467, 1347, 14678, 1478, 2356789, 235789, 25679, 2579, 345, 3456, 4568, 458}
931:94	$0, 0, 0, 0, 0, \frac{1}{111}\sqrt{230}e^{12}, \frac{1}{111}\sqrt{230}e^{34},$ $\frac{23}{111}\sqrt{10}e^{13} + \frac{2}{111}\sqrt{1265}e^{27} + \frac{2}{111}\sqrt{1265}e^{48}$	$(-\frac{2}{111}, -\frac{1}{111}, -\frac{2}{111}, -\frac{1}{111}, 1, \frac{20}{111}, -\frac{1}{37}, -\frac{1}{37}, -\frac{4}{111})$ $+ \frac{1}{111}\sqrt{20930}e^5 \otimes e_9$	{12345678, 1234578, 123567, 12357, 135, 1356}
931:94	$0, 0, 0, 0, 0, \frac{2}{1699}\sqrt{222387}e^{12}, \frac{1}{1699}\sqrt{125994}e^{34},$ $\frac{1}{1699}\sqrt{89562}e^{13} + \frac{3}{1699}\sqrt{65274}e^{27} + \frac{46}{1699}\sqrt{33}e^{48}$	$(\frac{306}{1699}, \frac{83}{1699}, \frac{166}{1699}, \frac{153}{1699}, -\frac{453}{1699}, -\frac{676}{1699}, \frac{389}{1699}, \frac{319}{1699}, \frac{472}{1699})$ $+ \frac{1}{1699}\sqrt{976074}e^1 \otimes e_5 + \frac{2}{1699}\sqrt{328647}e^2 \otimes e_6$	{23457, 23578, 3456, 3568}
931:94	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{43}e^{12}, \frac{2}{27}\sqrt{43}e^{34},$ $\frac{1}{27}\sqrt{43}e^{13} + \frac{1}{27}\sqrt{129}e^{27} + \frac{1}{27}\sqrt{129}e^{48}$	$(\frac{4}{27}, \frac{2}{27}, \frac{4}{27}, \frac{2}{27}, 1, -\frac{16}{27}, \frac{2}{9}, \frac{2}{9}, \frac{8}{27})$ $+ \frac{43}{27}e^5 \otimes e_6$	{123459, 123469, 123589, 123689, 135789, 136789}
931:94	$0, 0, 0, 0, 0, \frac{8}{673}\sqrt{4879}e^{12}, \frac{8}{673}\sqrt{1717}e^{34},$ $\frac{16}{673}\sqrt{799}e^{13} + \frac{8}{673}\sqrt{4845}e^{27} + \frac{8}{673}\sqrt{102}e^{48}$	$(\frac{16}{673}, \frac{101}{673}, \frac{202}{673}, \frac{8}{673}, -\frac{443}{673}, \frac{115}{673}, \frac{117}{673}, \frac{210}{673}, \frac{218}{673})$ $+ \frac{24}{673}\sqrt{1054}e^2 \otimes e_5$	{123469, 12349, 123689, 12389, 1345679, 134579, 1356789, 135789}
931:94	$0, 0, 0, 0, 0, \frac{4}{47}\sqrt{30}e^{12}, \frac{4}{47}\sqrt{30}e^{34},$ $\frac{2}{47}\sqrt{123}e^{13} + \frac{6}{47}\sqrt{10}e^{27} + \frac{6}{47}\sqrt{10}e^{48}$	$(\frac{6}{47}, \frac{3}{47}, \frac{6}{47}, \frac{3}{47}, -\frac{15}{47}, -\frac{15}{47}, \frac{9}{47}, \frac{9}{47}, \frac{12}{47})$ $+ \frac{2}{47}\sqrt{186}e^2 \otimes e_5 + \frac{2}{47}\sqrt{186}e^4 \otimes e_6$	{12349, 123689, 1356789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:94	$0, 0, 0, 0, 0, 0, \frac{1}{1313} \sqrt{346962}e^{12}, \frac{2}{1313} \sqrt{115654}e^{34},$ $\frac{2}{1313} \sqrt{25534}e^{13} + \frac{3}{1313} \sqrt{4506}e^{27} + \frac{1}{1313} \sqrt{476134}e^{48}$	$(\frac{462}{1313}, -\frac{36}{1313}, -\frac{72}{1313}, \frac{231}{1313}, -\frac{289}{1313}, -\frac{40}{101}, \frac{426}{1313}, \frac{159}{1313}, \frac{30}{101})$ $+ \frac{1}{1313} \sqrt{686414}e^1 \otimes e_5 + \frac{4}{1313} \sqrt{64586}e^4 \otimes e_6$	{1248, 126, 1478, 167}
931:94	$0, 0, 0, 0, 0, 0, \frac{1}{323} \sqrt{56210}e^{12}, \frac{2}{323} \sqrt{2190}e^{34},$ $\frac{2}{323} \sqrt{16790}e^{13} + \frac{3}{323} \sqrt{730}e^{27} + \frac{3}{323} \sqrt{730}e^{48}$	$(\frac{154}{323}, -\frac{12}{323}, -\frac{24}{323}, \frac{77}{323}, -\frac{211}{323}, \frac{56}{323}, \frac{142}{323}, \frac{53}{323}, \frac{130}{323})$ $+ \frac{1}{323} \sqrt{194910}e^1 \otimes e_5$	{23456789, 2345789, 235679, 23579, 345689, 34589, 3569, 359}
931:94	$0, 0, 0, 0, 0, 0, \frac{4}{951} \sqrt{5019}e^{12}, \frac{2}{951} \sqrt{12667}e^{34},$ $\frac{4}{951} \sqrt{15535}e^{13} + \frac{2}{951} \sqrt{16730}e^{27} + \frac{2}{951} \sqrt{16730}e^{48}$	$(\frac{56}{317}, -\frac{53}{951}, -\frac{106}{951}, \frac{28}{317}, \frac{180}{317}, \frac{310}{951}, \frac{115}{951}, -\frac{22}{951}, \frac{62}{951})$ $+ \frac{2}{951} \sqrt{104921}e^5 \otimes e_9 + \frac{2}{951} \sqrt{98229}e^1 \otimes e_6$	{1249, 1289, 1479, 1789}
931:94	$0, 0, 0, 0, 0, 0, \frac{1}{1659} \sqrt{533498}e^{12}, \frac{1}{553} \sqrt{15818}e^{34},$ $\frac{1}{1659} \sqrt{145238}e^{13} + \frac{2}{1659} \sqrt{194849}e^{27} + \frac{2}{1659} \sqrt{48173}e^{48}$	$(-\frac{74}{1659}, \frac{33}{553}, \frac{66}{553}, -\frac{37}{1659}, \frac{281}{553}, -\frac{620}{1659}, \frac{25}{1659}, \frac{23}{237}, \frac{124}{1659})$ $+ \frac{1}{1659} \sqrt{930386}e^5 \otimes e_9 + \frac{4}{1659} \sqrt{73338}e^2 \otimes e_6$	{12349, 12389, 134679, 136789}
931:94	$0, 0, 0, 0, 0, 0, \frac{10}{197} \sqrt{30}e^{12}, \frac{10}{197} \sqrt{30}e^{34},$ $\frac{30}{197} \sqrt{14}e^{13} + \frac{10}{197} \sqrt{22}e^{27} + \frac{10}{197} \sqrt{22}e^{48}$	$(\frac{30}{197}, \frac{15}{197}, \frac{30}{197}, \frac{15}{197}, -\frac{70}{197}, -\frac{70}{197}, \frac{45}{197}, \frac{45}{197}, \frac{60}{197})$ $+ \frac{10}{197} \sqrt{178}e^1 \otimes e_5 + \frac{10}{197} \sqrt{178}e^3 \otimes e_6$	{1234, 1238, 1378}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{297} \sqrt{6262}e^{12}, \frac{2}{297} \sqrt{5555}e^{34},$ $\frac{1}{297} \sqrt{7070}e^{15} + \frac{1}{99} \sqrt{606}e^{27} + \frac{1}{99} \sqrt{606}e^{38}$	$(\frac{124}{297}, -\frac{13}{99}, \frac{32}{297}, \frac{10}{27}, -\frac{26}{99}, -\frac{92}{297}, \frac{85}{297}, \frac{26}{99}, \frac{46}{297})$ $+ \frac{1}{297} \sqrt{51914}e^4 \otimes e_6 + \frac{4}{297} \sqrt{3333}e^1 \otimes e_5$	{235678, 2567, 3568, 56}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{53} \sqrt{134}e^{12}, \frac{1}{53} \sqrt{402}e^{34},$ $\frac{1}{53} \sqrt{2814}e^{15} + \frac{1}{53} \sqrt{402}e^{27} + \frac{1}{53} \sqrt{402}e^{38}$	$(-\frac{8}{53}, \frac{16}{53}, \frac{9}{53}, \frac{6}{53}, \frac{32}{53}, -\frac{35}{53}, \frac{8}{53}, \frac{15}{53}, \frac{24}{53})$ $+ \frac{2}{53} \sqrt{1474}e^5 \otimes e_6$	{1236789, 12679, 13689, 169, 2346, 2468, 3467, 4678}
931:95	$0, 0, 0, 0, 0, 0, \frac{8}{1049} \sqrt{3290}e^{12}, \frac{6}{1049} \sqrt{1645}e^{34},$ $\frac{16}{1049} \sqrt{329}e^{15} + \frac{24}{1049} \sqrt{329}e^{27} + \frac{24}{1049} \sqrt{329}e^{38}$	$(\frac{320}{1049}, -\frac{169}{1049}, -\frac{54}{1049}, \frac{90}{1049}, -\frac{338}{1049}, \frac{640}{1049}, \frac{151}{1049}, \frac{36}{1049}, -\frac{18}{1049})$ $+ \frac{2}{1049} \sqrt{134561}e^1 \otimes e_5 + \frac{4}{1049} \sqrt{166145}e^6 \otimes e_9$	{12349, 12489, 13479, 14789}
931:95	$0, 0, 0, 0, 0, 0, \frac{4}{4329} \sqrt{260074}e^{12}, \frac{20}{1443} \sqrt{1193}e^{34},$ $\frac{2}{4329} \sqrt{549973}e^{15} + \frac{10}{4329} \sqrt{1193}e^{27} + \frac{2}{1443} \sqrt{140774}e^{38}$	$(\frac{1744}{4329}, \frac{107}{1443}, \frac{82}{481}, -\frac{374}{4329}, \frac{214}{1443}, -\frac{1648}{4329}, \frac{1423}{4329}, \frac{28}{333}, \frac{1102}{4329})$ $+ \frac{2}{1443} \sqrt{215933}e^1 \otimes e_5 + \frac{2}{4329} \sqrt{2593582}e^3 \otimes e_6$	{1238, 126, 1378, 167}
931:95	$0, 0, 0, 0, 0, 0, \frac{1}{392} \sqrt{141810}e^{12}, \frac{5}{392} \sqrt{978}e^{34},$ $\frac{1}{392} \sqrt{42054}e^{15} + \frac{1}{392} \sqrt{28851}e^{27} + \frac{1}{392} \sqrt{28851}e^{38}$	$(\frac{145}{196}, -\frac{199}{784}, \frac{41}{784}, \frac{25}{196}, -\frac{199}{392}, \frac{75}{392}, \frac{381}{784}, \frac{141}{784}, \frac{13}{56})$ $+ \frac{1}{392} \sqrt{310026}e^1 \otimes e_5$	{235678, 23578, 2567, 257, 3568, 358, 5, 56}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{531} \sqrt{11431}e^{12}, \frac{1}{531} \sqrt{175938}e^{34},$ $\frac{1}{531} \sqrt{42742}e^{15} + \frac{2}{531} \sqrt{4970}e^{27} + \frac{1}{177} \sqrt{5467}e^{38}$	$(\frac{92}{531}, \frac{23}{177}, \frac{52}{177}, -\frac{82}{531}, \frac{46}{177}, -\frac{341}{531}, \frac{161}{531}, \frac{74}{531}, \frac{230}{531})$ $+ \frac{2}{531} \sqrt{108346}e^3 \otimes e_6$	{1238, 126, 1378, 167, 23479, 246789, 349, 4689}
931:95	$0, 0, 0, 0, 0, 0, \frac{4}{1541} \sqrt{32963}e^{12}, \frac{1}{1541} \sqrt{368410}e^{34},$ $\frac{1}{1541} \sqrt{476994}e^{15} + \frac{1}{1541} \sqrt{213290}e^{27} + \frac{1}{1541} \sqrt{2222094}e^{38}$	$(\frac{272}{1541}, \frac{204}{1541}, \frac{873}{1541}, -\frac{1066}{1541}, \frac{408}{1541}, \frac{285}{1541}, \frac{476}{1541}, -\frac{193}{1541}, \frac{680}{1541})$ $+ \frac{4}{1541} \sqrt{304423}e^3 \otimes e_4$	{12368, 1238, 13678, 1378, 246789, 24789, 4689, 489}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{33} \sqrt{42}e^{12}, \frac{2}{33} \sqrt{231}e^{34},$ $\frac{1}{33} \sqrt{42}e^{15} + \frac{1}{11} \sqrt{14}e^{27} + \frac{1}{11} \sqrt{14}e^{38}$	$(\frac{4}{33}, \frac{1}{11}, -\frac{2}{11}, \frac{2}{3}, \frac{2}{11}, -\frac{20}{33}, \frac{7}{33}, \frac{16}{33}, \frac{10}{33})$ $+ \frac{1}{33} \sqrt{2226}e^4 \otimes e_6$	{12349, 12489, 13479, 14789, 23678, 267, 368, 6}
931:95	$0, 0, 0, 0, 0, 0, \frac{4}{4689} \sqrt{45037}e^{12}, \frac{4}{1563} \sqrt{7765}e^{34},$ $\frac{2}{4689} \sqrt{802901}e^{15} + \frac{1563}{4689} \sqrt{7765}e^{27} + \frac{2}{4689} \sqrt{1618226}e^{38}$	$(\frac{232}{521}, -\frac{509}{4689}, \frac{464}{1563}, -\frac{1714}{4689}, -\frac{1018}{4689}, \frac{60}{521}, \frac{1579}{4689}, -\frac{322}{4689}, \frac{1070}{4689})$ $+ \frac{10}{4689} \sqrt{128899}e^1 \otimes e_5 + \frac{2}{4689} \sqrt{3220922}e^3 \otimes e_4$	{235678, 23578, 3568, 358}
931:95	$0, 0, 0, 0, 0, 0, \frac{128}{435} e^{12}, \frac{16}{145} \sqrt{2}e^{34},$ $\frac{16}{1305} \sqrt{70}e^{15} + \frac{16}{1305} \sqrt{358}e^{27} + \frac{32}{1305} \sqrt{290}e^{38}$	$(\frac{32}{145}, -\frac{112}{1305}, \frac{64}{435}, -\frac{64}{261}, -\frac{224}{1305}, \frac{64}{145}, \frac{176}{1305}, -\frac{128}{1305}, \frac{64}{1305})$ $+ \frac{16}{435} \sqrt{202}e^6 \otimes e_9 + \frac{32}{1305} \sqrt{401}e^3 \otimes e_4 + \frac{64}{1305} \sqrt{82}e^1 \otimes e_5$	{12489, 14789}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{401} \sqrt{411}e^{12}, \frac{5}{401} \sqrt{822}e^{34},$ $\frac{9}{401} \sqrt{822}e^{15} + \frac{4}{401} \sqrt{4110}e^{27} + \frac{4}{401} \sqrt{4110}e^{38}$	$(-\frac{4}{401}, -\frac{3}{401}, -\frac{30}{401}, \frac{50}{401}, -\frac{6}{401}, 1, -\frac{7}{401}, \frac{20}{401}, -\frac{10}{401})$ $+ \frac{2}{401} \sqrt{66993}e^6 \otimes e_9$	{1235678, 12567, 13568, 156, 23459, 24589, 34579, 45789}
931:95	$0, 0, 0, 0, 0, 0, \frac{4}{1565} \sqrt{105781}e^{12}, \frac{1}{1565} \sqrt{232986}e^{34},$ $\frac{1}{1565} \sqrt{886418}e^{15} + \frac{91}{1565} \sqrt{206}e^{27} + \frac{1}{1565} \sqrt{40170}e^{38}$	$(-\frac{8}{313}, \frac{296}{1565}, \frac{189}{1565}, \frac{174}{1565}, \frac{592}{1565}, -\frac{1043}{1565}, \frac{256}{1565}, \frac{363}{1565}, \frac{552}{1565})$ $+ \frac{4}{1565} \sqrt{218257}e^2 \otimes e_6$	{123589, 1259, 1356789, 15679, 23457, 24578, 3456, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
931:95	$0, 0, 0, 0, 0, 0, \frac{64}{1211}\sqrt{5}e^{12}, \frac{8}{1211}\sqrt{910}e^{34},$ $\frac{8}{1211}\sqrt{1770}e^{15} + \frac{8}{1211}\sqrt{1930}e^{27} + \frac{48}{1211}\sqrt{190}e^{38}$	$(\frac{32}{1211}, \frac{24}{1211}, \frac{240}{1211}, -\frac{400}{1211}, \frac{48}{1211}, \frac{720}{1211}, \frac{8}{1211}, -\frac{160}{1211}, \frac{80}{1211})$ $+ \frac{16}{1211}\sqrt{2455}e^3 \otimes e_4 + \frac{8}{1211}\sqrt{11670}e^6 \otimes e_9$	{12489, 14789, 23678, 368}
931:95	$0, 0, 0, 0, 0, 0, \frac{4}{5129}\sqrt{485077}e^{12}, \frac{4}{5129}\sqrt{40026}e^{34},$ $\frac{2}{5129}\sqrt{932987}e^{15} + \frac{2}{5129}\sqrt{1301798}e^{27} + \frac{2}{5129}\sqrt{37167}e^{38}$	$(\frac{1418}{5129}, -\frac{244}{5129}, \frac{297}{5129}, \frac{336}{5129}, -\frac{488}{5129}, -\frac{2150}{5129}, \frac{1174}{5129}, \frac{633}{5129}, \frac{930}{5129})$ $+ \frac{2}{5129}\sqrt{2529262}e^2 \otimes e_6 + \frac{6}{5129}\sqrt{208707}e^1 \otimes e_5$	{23578, 257, 3568, 56}
931:95	$0, 0, 0, 0, 0, 0, \frac{6}{2029}\sqrt{2966}e^{12}, \frac{5}{2029}\sqrt{8898}e^{34},$ $\frac{3}{2029}\sqrt{109742}e^{15} + \frac{1}{2029}\sqrt{412274}e^{27} + \frac{1}{2029}\sqrt{916494}e^{38}$	$(-\frac{72}{2029}, \frac{400}{2029}, \frac{737}{2029}, -\frac{746}{2029}, \frac{800}{2029}, -\frac{683}{2029}, \frac{328}{2029}, -\frac{9}{2029}, \frac{728}{2029})$ $+ \frac{16}{2029}\sqrt{10381}e^3 \otimes e_4 + \frac{2}{2029}\sqrt{673282}e^5 \otimes e_6$	{1246789, 14689, 2368, 3678}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{330}e^{12}, \frac{1}{49}\sqrt{330}e^{34},$ $\frac{1}{49}\sqrt{1430}e^{15} + \frac{1}{49}\sqrt{110}e^{27} + \frac{1}{49}\sqrt{110}e^{38}$	$(\frac{24}{49}, -\frac{2}{49}, \frac{1}{7}, \frac{6}{49}, -\frac{4}{49}, -\frac{31}{49}, \frac{22}{49}, \frac{13}{49}, \frac{20}{49})$ $+ \frac{20}{49}\sqrt{11}e^1 \otimes e_6$	{12345, 12458, 13457, 14578, 2356789, 25679, 35689, 569}
931:95	$0, 0, 0, 0, 0, 0, \frac{6}{1897}\sqrt{30827}e^{12}, \frac{5}{1897}\sqrt{6378}e^{34},$ $\frac{1}{1897}\sqrt{703706}e^{15} + \frac{1}{1897}\sqrt{924810}e^{27} + \frac{3}{1897}\sqrt{61654}e^{38}$	$(\frac{34}{1897}, \frac{278}{1897}, \frac{551}{1897}, -\frac{512}{1897}, \frac{556}{1897}, -\frac{785}{1897}, \frac{312}{1897}, \frac{39}{1897}, \frac{590}{1897})$ $+ \frac{2}{1897}\sqrt{351853}e^3 \otimes e_4 + \frac{2}{1897}\sqrt{536815}e^2 \otimes e_6$	{124589, 1456789, 23578, 3568}
931:95	$0, 0, 0, 0, 0, 0, \frac{2}{523}\sqrt{14658}e^{12}, \frac{1}{523}\sqrt{14658}e^{34},$ $\frac{1}{523}\sqrt{38390}e^{15} + \frac{5}{523}\sqrt{698}e^{27} + \frac{1}{523}\sqrt{57934}e^{38}$	$(\frac{168}{523}, \frac{4}{523}, \frac{175}{523}, -\frac{174}{523}, \frac{8}{523}, \frac{181}{523}, \frac{172}{523}, \frac{1}{523}, \frac{176}{523})$ $+ \frac{12}{523}\sqrt{1047}e^3 \otimes e_4 + \frac{2}{523}\sqrt{42578}e^1 \otimes e_6$	{12358, 13578, 2456789, 45689}
931:96	$0, 0, 0, 0, 0, 0, \frac{3}{146}\sqrt{370}e^{12}, \frac{3}{146}\sqrt{370}e^{34},$ $\frac{1}{146}\sqrt{19610}e^{17} + \frac{1}{146}\sqrt{2405}e^{38} + \frac{1}{146}\sqrt{2405}e^{56}$	$(\frac{42}{73}, -\frac{101}{146}, \frac{49}{292}, \frac{9}{73}, \frac{67}{292}, \frac{67}{292}, -\frac{17}{146}, \frac{85}{292}, \frac{67}{146})$ $+ \frac{1}{146}\sqrt{44030}e^1 \otimes e_2$	{13457, 14578, 2356789, 23789, 25679, 279}
931:96	$0, 0, 0, 0, 0, 0, \frac{4}{105}\sqrt{21}e^{12}, \frac{4}{105}\sqrt{21}e^{34},$ $\frac{8}{105}\sqrt{21}e^{17} + \frac{8}{105}\sqrt{21}e^{38} + \frac{4}{105}\sqrt{35}e^{56}$	$(\frac{4}{15}, -\frac{4}{15}, \frac{4}{15}, -\frac{4}{15}, \frac{2}{5}, -\frac{2}{15}, 0, 0, \frac{4}{15})$ $+ \frac{4}{105}\sqrt{238}e^1 \otimes e_2 + \frac{4}{105}\sqrt{238}e^3 \otimes e_4 + \frac{8}{15}e^5 \otimes e_6$	{13578, 13678}
931:96	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{370}e^{12}, \frac{2}{159}\sqrt{370}e^{34},$ $\frac{2}{477}\sqrt{19610}e^{17} + \frac{2}{477}\sqrt{2405}e^{38} + \frac{2}{477}\sqrt{2405}e^{56}$	$(\frac{56}{159}, -\frac{202}{477}, \frac{49}{477}, \frac{4}{53}, \frac{28}{53}, -\frac{118}{477}, \frac{34}{477}, \frac{85}{477}, \frac{134}{477})$ $+ \frac{2}{477}\sqrt{44030}e^1 \otimes e_2 + \frac{370}{477}e^5 \otimes e_6$	{13457, 13467, 14578, 14678}
931:96	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{290}e^{12}, \frac{2}{73}\sqrt{290}e^{34},$ $\frac{2}{73}\sqrt{174}e^{17} + \frac{2}{73}\sqrt{174}e^{38} + \frac{2}{73}\sqrt{174}e^{56}$	$(\frac{7}{73}, \frac{10}{73}, \frac{7}{73}, \frac{10}{73}, \frac{70}{73}, -\frac{46}{73}, \frac{17}{73}, \frac{17}{73}, \frac{24}{73})$ $+ \frac{116}{73}e^5 \otimes e_6$	{123459, 123469, 124589, 124689, 245789, 246789}
931:96	$0, 0, 0, 0, 0, 0, \frac{4}{77}\sqrt{21}e^{12}, \frac{4}{77}\sqrt{21}e^{34},$ $\frac{8}{77}\sqrt{21}e^{17} + \frac{8}{77}\sqrt{21}e^{38} + \frac{4}{77}\sqrt{35}e^{56}$	$(\frac{4}{11}, -\frac{4}{11}, \frac{4}{11}, -\frac{4}{11}, \frac{2}{11}, \frac{2}{11}, 0, 0, \frac{4}{11})$ $+ \frac{4}{77}\sqrt{238}e^1 \otimes e_2 + \frac{4}{77}\sqrt{238}e^3 \otimes e_4$	{13578, 2456789, 24789}
931:102	$0, 0, 0, 0, 0, 0, \frac{10}{63}\sqrt{10}e^{12}, \frac{10}{63}\sqrt{10}e^{34},$ $\frac{20}{63}e^{13} + \frac{10}{63}\sqrt{6}e^{27} + \frac{10}{63}\sqrt{6}e^{48} + \frac{10}{63}\sqrt{6}e^{56}$	$(\frac{10}{63}, \frac{5}{63}, \frac{10}{63}, \frac{5}{63}, \frac{20}{63}, -\frac{40}{63}, \frac{5}{21}, \frac{5}{21}, \frac{20}{63})$ $+ \frac{100}{63}e^5 \otimes e_6$	{123459, 123469, 123589, 123689, 134579, 134679, 135789, 136789}
931:103	$0, 0, 0, 0, 0, 0, \frac{5}{37}\sqrt{15}e^{12}, \frac{5}{37}\sqrt{15}e^{34},$ $\frac{5}{74}\sqrt{14}e^{15} + \frac{10}{37}e^{27} + \frac{5}{74}\sqrt{14}e^{36} + \frac{10}{37}e^{48}$	$(\frac{15}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{5}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, \frac{5}{37})$ $+ \frac{5}{74}\sqrt{130}e^1 \otimes e_5 + \frac{5}{74}\sqrt{130}e^3 \otimes e_6$	{245678, 2567, 56}
931:103	$0, 0, 0, 0, 0, 0, \frac{50}{201}\sqrt{15}e^{12}, \frac{50}{201}\sqrt{2}e^{34},$ $\frac{20}{201}\sqrt{30}e^{15} + \frac{5}{67}\sqrt{30}e^{27} + \frac{5}{201}\sqrt{170}e^{36} + \frac{5}{67}\sqrt{30}e^{48}$	$(\frac{50}{67}, -\frac{50}{201}, \frac{20}{201}, \frac{5}{67}, -\frac{100}{201}, \frac{10}{67}, \frac{100}{201}, \frac{35}{201}, \frac{50}{201})$ $+ \frac{25}{201}\sqrt{130}e^1 \otimes e_5$	{24578, 257, 458, 5}
931:103	$0, 0, 0, 0, 0, 0, \frac{5}{37}\sqrt{15}e^{12}, \frac{5}{37}\sqrt{15}e^{34},$ $\frac{5}{74}\sqrt{14}e^{15} + \frac{10}{37}e^{27} + \frac{5}{74}\sqrt{14}e^{36} + \frac{10}{37}e^{48}$	$(\frac{15}{37}, -\frac{5}{37}, \frac{15}{37}, -\frac{5}{37}, -\frac{10}{37}, -\frac{10}{37}, \frac{10}{37}, \frac{10}{37}, \frac{5}{37})$ $+ \frac{5}{74}\sqrt{130}e^1 \otimes e_5 - \frac{5}{74}\sqrt{130}e^3 \otimes e_6$	{245678, 2567, 56}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{3021}e^{12}, \frac{2}{197}\sqrt{689}e^{13}, \frac{2}{197}\sqrt{689}e^{23}$	$(\frac{39}{197}, \frac{39}{197}, -\frac{5}{197}, -\frac{67}{197}, -\frac{67}{197}, \frac{21}{197}, \frac{78}{197}, \frac{34}{197}, \frac{34}{197})$ $+ \frac{4}{197}\sqrt{1166}e^1 \otimes e_4 + \frac{4}{197}\sqrt{1166}e^2 \otimes e_5$	{123, 1236, 12689, 1289, 135679, 13579, 15678, 1578, 345689, 34589, 45, 456}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{503}\sqrt{32190}e^{12}, \frac{1}{503}\sqrt{32190}e^{13}, \frac{1}{503}\sqrt{7030}e^{23}$	$(\frac{57}{503}, -\frac{64}{503}, -\frac{64}{503}, \frac{178}{503}, \frac{42}{503}, -\frac{7}{503}, -\frac{7}{503}, -\frac{128}{503})$ $+ \frac{3}{503}\sqrt{7770}e^1 \otimes e_9 + \frac{4}{503}\sqrt{3145}e^4 \otimes e_7 + \frac{4}{503}\sqrt{3145}e^5 \otimes e_8$	{12345, 123456, 1678, 178, 25679, 2579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:1	$0, 0, 0, 0, 0, 0, \frac{4}{23}\sqrt{3}e^{12}, \frac{4}{23}\sqrt{3}e^{13}, \frac{4}{23}\sqrt{3}e^{23}$	$(\frac{3}{23}, \frac{3}{23}, -\frac{6}{23}, -\frac{1}{23}, \frac{5}{23}, \frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, -\frac{3}{23})$ $+ \frac{6}{23}\sqrt{3}e^1 \otimes e_9 + \frac{2}{23}\sqrt{3}e^2 \otimes e_8 + \frac{6}{23}e^5 \otimes e_4$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 34689, 3489, 35689, 3589}
93:1	$0, 0, 0, 0, 0, 0, \frac{4}{23}\sqrt{3}e^{12}, \frac{4}{23}\sqrt{3}e^{13}, \frac{4}{23}\sqrt{3}e^{23}$	$(\frac{3}{23}, \frac{3}{23}, -\frac{6}{23}, -\frac{1}{23}, \frac{5}{23}, \frac{2}{23}, \frac{6}{23}, -\frac{3}{23}, -\frac{3}{23})$ $+ \frac{6}{23}\sqrt{3}e^1 \otimes e_9 - \frac{6}{23}\sqrt{3}e^2 \otimes e_8 + \frac{6}{23}e^5 \otimes e_4$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 34689, 3489, 35689, 3589}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{167}\sqrt{8366}e^{12}, \frac{1}{167}\sqrt{2314}e^{13}, \frac{1}{167}\sqrt{2314}e^{23}$	$(\frac{39}{167}, -\frac{42}{167}, -\frac{8}{167}, \frac{86}{167}, \frac{18}{167}, \frac{18}{167}, -\frac{3}{167}, \frac{31}{167}, -\frac{50}{167})$ $+ \frac{2}{167}\sqrt{3026}e^4 \otimes e_7 + \frac{9}{167}\sqrt{178}e^1 \otimes e_9$	{1234, 12345, 123456, 15678, 1578, 178, 25679, 2579, 279, 345689, 34589, 3489}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{423}\sqrt{8366}e^{12}, \frac{2}{423}\sqrt{2314}e^{13}, \frac{2}{423}\sqrt{2314}e^{23}$	$(\frac{26}{141}, -\frac{28}{141}, -\frac{16}{423}, \frac{125}{423}, \frac{172}{423}, -\frac{53}{423}, -\frac{2}{141}, \frac{62}{423}, -\frac{100}{423})$ $+ \frac{178}{423}e^4 \otimes e_6 + \frac{2}{47}\sqrt{178}e^1 \otimes e_9 + \frac{4}{423}\sqrt{3026}e^5 \otimes e_7$	{12345, 12356, 1478, 1678, 2479, 2679, 34589, 35689}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{1254}e^{12}, \frac{2}{167}\sqrt{1254}e^{13}, \frac{2}{167}\sqrt{1254}e^{23}$	$(\frac{66}{167}, -\frac{24}{167}, -\frac{24}{167}, \frac{77}{167}, -\frac{37}{167}, \frac{20}{167}, \frac{42}{167}, \frac{42}{167}, -\frac{48}{167})$ $+ \frac{114}{167}e^4 \otimes e_5 + \frac{6}{167}\sqrt{570}e^1 \otimes e_9$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578, 24679, 2479, 25679, 2579}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12}, \frac{1}{52}\sqrt{335}e^{13}, \frac{1}{52}\sqrt{335}e^{23}$	$(-\frac{15}{104}, -\frac{15}{104}, \frac{7}{26}, \frac{1}{52}, \frac{9}{52}, -\frac{15}{52}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{52}\sqrt{5762}e^4 \otimes e_7$	{12345689, 1234589, 123489, 124, 1245, 12456, 135678, 13578, 1378, 15679, 1579, 179, 34, 345, 3456, 45689, 4589, 489}
93:1	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{33}e^{12}, \frac{4}{71}\sqrt{33}e^{13}, \frac{4}{71}\sqrt{22}e^{23}$	$(\frac{5}{71}, \frac{13}{71}, -\frac{14}{71}, -\frac{17}{71}, \frac{21}{71}, \frac{6}{71}, \frac{18}{71}, -\frac{9}{71}, -\frac{71}{71})$ $+ \frac{2}{71}\sqrt{165}e^5 \otimes e_9 + \frac{2}{71}\sqrt{253}e^1 \otimes e_4 + \frac{6}{71}\sqrt{33}e^2 \otimes e_8$	{1235, 12356, 15678, 1578, 24679, 2479, 34689, 3489}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{435}e^{12}, \frac{1}{41}\sqrt{435}e^{13}, \frac{1}{41}\sqrt{203}e^{23}$	$(\frac{23}{82}, \frac{1}{82}, \frac{1}{82}, \frac{19}{41}, -\frac{35}{82}, -\frac{10}{41}, \frac{12}{41}, \frac{12}{41}, \frac{1}{41})$ $+ \frac{29}{41}e^4 \otimes e_6 + \frac{2}{41}\sqrt{319}e^1 \otimes e_5$	{12349, 12369, 1248, 1268, 14789, 16789, 2345789, 2356789, 2457, 2567, 459, 569}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{178}\sqrt{6177}e^{12}, \frac{1}{178}\sqrt{6177}e^{13}, \frac{1}{89}\sqrt{142}e^{23}$	$(\frac{5}{89}, \frac{103}{356}, -\frac{59}{356}, -\frac{61}{178}, \frac{9}{89}, \frac{9}{89}, \frac{123}{356}, -\frac{39}{356}, \frac{11}{89})$ $+ \frac{1}{178}\sqrt{11218}e^1 \otimes e_4 + \frac{9}{178}\sqrt{142}e^2 \otimes e_8$	{123, 1235, 12356, 15678, 1578, 178, 245679, 24579, 2479, 345689, 34589, 3489}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{1254}e^{12}, \frac{1}{55}\sqrt{1254}e^{13}, \frac{1}{55}\sqrt{1254}e^{23}$	$(\frac{3}{5}, -\frac{12}{55}, -\frac{12}{55}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{21}{55}, \frac{21}{55}, -\frac{24}{55})$ $+ \frac{3}{55}\sqrt{570}e^1 \otimes e_9$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 245679, 24579, 2479, 279}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{3003}e^{12}, \frac{1}{128}\sqrt{3003}e^{13}, \frac{1}{128}\sqrt{2002}e^{23}$	$(\frac{11}{32}, -\frac{25}{256}, -\frac{25}{256}, \frac{33}{64}, -\frac{47}{128}, \frac{15}{128}, \frac{63}{256}, \frac{63}{256}, -\frac{25}{128})$ $+ \frac{1}{128}\sqrt{9282}e^4 \otimes e_9 + \frac{1}{64}\sqrt{2821}e^1 \otimes e_5$	{1234, 12346, 12689, 1289, 14678, 1478, 2345678, 234578, 25679, 2579, 45, 456}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{12}{691}\sqrt{413}e^{13}, \frac{2}{691}\sqrt{14691}e^{23}$	$(\frac{85}{691}, -\frac{82}{691}, \frac{64}{691}, \frac{357}{691}, -\frac{269}{691}, \frac{65}{691}, \frac{3}{691}, \frac{149}{691}, -\frac{18}{691})$ $+ \frac{2}{691}\sqrt{59118}e^1 \otimes e_5 + \frac{4}{691}\sqrt{12921}e^4 \otimes e_7$	{123469, 12349, 12468, 1248, 1367, 137, 16789, 1789, 2356789, 235789, 2567, 257, 34568, 3458, 4569, 459}
93:1	$0, 0, 0, 0, 0, 0, \frac{6}{133}\sqrt{70}e^{12}, \frac{6}{133}\sqrt{70}e^{13}, \frac{3}{133}\sqrt{155}e^{23}$	$(\frac{4}{133}, -\frac{3}{133}, -\frac{3}{133}, \frac{46}{133}, \frac{46}{133}, -\frac{41}{133}, \frac{1}{133}, \frac{1}{133}, -\frac{6}{133})$ $+ \frac{3}{133}\sqrt{365}e^4 \otimes e_7 + \frac{46}{133}\sqrt{365}e^5 \otimes e_8 + \frac{1}{133}\sqrt{505}e^1 \otimes e_6$	{123459, 1248, 1789, 236789, 2567, 4569}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{435}e^{12}, \frac{2}{53}\sqrt{435}e^{13}, \frac{2}{53}\sqrt{203}e^{23}$	$(\frac{23}{53}, \frac{1}{53}, \frac{1}{53}, -\frac{35}{53}, \frac{9}{53}, \frac{9}{53}, \frac{24}{53}, \frac{24}{53}, \frac{2}{53})$ $+ \frac{4}{53}\sqrt{319}e^1 \otimes e_4$	{123569, 12359, 1239, 12568, 1258, 128, 156789, 15789, 1789, 23456789, 2345789, 234789, 24567, 2457, 247, 4569, 459, 49}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{2130}e^{13}, \frac{2}{193}\sqrt{923}e^{23}$	$(-\frac{39}{193}, \frac{4}{193}, \frac{4}{193}, \frac{107}{193}, \frac{107}{193}, \frac{21}{193}, -\frac{35}{193}, -\frac{35}{193}, \frac{8}{193})$ $+ \frac{2}{193}\sqrt{6106}e^4 \otimes e_7 + \frac{2}{193}\sqrt{6106}e^5 \otimes e_8$	{1234569, 123459, 12468, 1248, 16789, 1789, 236789, 23789, 2567, 257, 4569, 459}
93:1	$0, 0, 0, 0, 0, 0, \frac{6}{1291}\sqrt{6227}e^{12}, \frac{1}{1291}\sqrt{225130}e^{13}, \frac{1}{1291}\sqrt{2874}e^{23}$	$(\frac{110}{1291}, \frac{229}{1291}, -\frac{127}{1291}, -\frac{369}{1291}, \frac{462}{1291}, -\frac{250}{1291}, \frac{339}{1291}, -\frac{17}{1291}, \frac{102}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^2 \otimes e_6 + \frac{1}{1291}\sqrt{342006}e^5 \otimes e_8 + \frac{2}{1291}\sqrt{113523}e^1 \otimes e_4$	{12359, 128, 13567, 16789, 234789, 2457, 3468, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{1283}\sqrt{340518}e^{12}, \frac{2}{1283}\sqrt{25897}e^{13}, \frac{3}{1283}\sqrt{1102}e^{23}$	$(\frac{179}{1283}, -\frac{195}{1283}, \frac{20}{1283}, \frac{535}{1283}, \frac{376}{1283}, -\frac{372}{1283}, -\frac{16}{1283}, \frac{199}{1283}, -\frac{175}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^5 \otimes e_9 + \frac{2}{1283}\sqrt{118465}e^4 \otimes e_7 + \frac{3}{1283}\sqrt{58406}e^1 \otimes e_6$	{12349, 12458, 1357, 1789, 236789, 2567, 34568, 469}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{427}\sqrt{6177}e^{12}, \frac{2}{427}\sqrt{6177}e^{13}, \frac{4}{427}\sqrt{142}e^{23}$	$(\frac{20}{427}, \frac{103}{427}, -\frac{59}{427}, -\frac{2}{7}, \frac{107}{427}, -\frac{5}{61}, \frac{123}{427}, -\frac{39}{427}, \frac{44}{427})$ $+ \frac{142}{427}e^5 \otimes e_6 + \frac{18}{427}\sqrt{142}e^2 \otimes e_8 + \frac{2}{427}\sqrt{11218}e^1 \otimes e_4$	{1235, 1236, 1578, 1678, 24579, 24679, 34589, 34689}
93:1	$0, 0, 0, 0, 0, 0, \frac{3}{535}\sqrt{5882}e^{12}, \frac{12}{535}\sqrt{17}e^{13}, \frac{12}{535}\sqrt{17}e^{23}$	$(\frac{24}{535}, \frac{24}{535}, \frac{22}{535}, -\frac{129}{535}, \frac{201}{535}, -\frac{129}{535}, \frac{48}{535}, \frac{46}{535}, \frac{46}{535})$ $+ \frac{3}{535}\sqrt{5542}e^5 \otimes e_7 + \frac{3}{535}\sqrt{5678}e^1 \otimes e_4 + \frac{3}{535}\sqrt{5678}e^2 \otimes e_6$	{1235, 12589, 13679, 1678, 345689, 456}
93:1	$0, 0, 0, 0, 0, 0, \frac{5}{141}\sqrt{66}e^{12}, \frac{5}{141}\sqrt{66}e^{13}, \frac{5}{141}\sqrt{66}e^{23}$	$(-\frac{10}{141}, -\frac{10}{141}, -\frac{10}{141}, \frac{55}{141}, \frac{55}{141}, \frac{55}{141}, -\frac{20}{141}, -\frac{20}{141}, -\frac{20}{141})$ $+ \frac{5}{141}\sqrt{258}e^4 \otimes e_7 + \frac{5}{141}\sqrt{258}e^5 \otimes e_8 + \frac{5}{141}\sqrt{258}e^6 \otimes e_9$	{123456, 12489, 1678, 456}
93:1	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{2546}e^{12}, \frac{2}{171}\sqrt{335}e^{13}, \frac{2}{171}\sqrt{335}e^{23}$	$(-\frac{5}{57}, -\frac{5}{57}, \frac{28}{171}, \frac{85}{171}, \frac{104}{171}, -\frac{49}{171}, -\frac{10}{57}, \frac{13}{171}, \frac{13}{171})$ $+ \frac{134}{171}e^4 \otimes e_6 + \frac{2}{171}\sqrt{5762}e^5 \otimes e_7$	{1234589, 1235689, 1245, 1256, 13478, 13678, 1479, 1679, 345, 356, 4589, 5689}
93:1	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{77}e^{12}, \frac{1}{115}\sqrt{682}e^{13}, \frac{1}{115}\sqrt{682}e^{23}$	$(\frac{6}{115}, \frac{6}{115}, -\frac{22}{115}, \frac{9}{115}, \frac{34}{115}, \frac{9}{115}, \frac{12}{115}, -\frac{16}{115}, -\frac{16}{115})$ $+ \frac{2}{23}\sqrt{11}e^5 \otimes e_7 + \frac{9}{115}\sqrt{22}e^1 \otimes e_9 + \frac{9}{115}\sqrt{22}e^2 \otimes e_8$	{12345, 123456, 1235, 14678, 1478, 178, 345689, 34589, 3589}
93:1	$0, 0, 0, 0, 0, 0, \frac{4}{115}\sqrt{77}e^{12}, \frac{1}{115}\sqrt{682}e^{13}, \frac{1}{115}\sqrt{682}e^{23}$	$(\frac{6}{115}, \frac{6}{115}, -\frac{22}{115}, \frac{9}{115}, \frac{34}{115}, \frac{9}{115}, \frac{12}{115}, -\frac{16}{115}, -\frac{16}{115})$ $+ \frac{2}{23}\sqrt{11}e^5 \otimes e_7 + \frac{9}{115}\sqrt{22}e^1 \otimes e_9 - \frac{9}{115}\sqrt{22}e^2 \otimes e_8$	{12345, 123456, 1235, 14678, 1478, 178, 345689, 34589, 3589}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12}, \frac{1}{13}\sqrt{21}e^{13}, \frac{1}{13}\sqrt{21}e^{23}$	$(\frac{3}{26}, \frac{3}{26}, \frac{3}{26}, 1, -\frac{8}{13}, \frac{5}{26}, \frac{3}{13}, \frac{3}{13}, \frac{3}{13})$ $+ \frac{21}{13}e^4 \otimes e_5$	{1234, 12346, 1235, 12356, 124689, 12489, 125689, 12589, 14678, 1478, 15678, 1578, 4, 46, 5, 56}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{3}e^{12}, \frac{1}{5}\sqrt{3}e^{13}, \frac{1}{5}\sqrt{3}e^{23}$	$(\frac{3}{20}, \frac{3}{20}, -\frac{3}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{3}{10}, -\frac{3}{20}, -\frac{3}{20})$ $+ \frac{3}{10}\sqrt{3}e^1 \otimes e_9 + \frac{3}{10}\sqrt{3}e^2 \otimes e_8$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 345689, 34589, 3489, 389}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{3}e^{12}, \frac{1}{5}\sqrt{3}e^{13}, \frac{1}{5}\sqrt{3}e^{23}$	$(\frac{3}{20}, \frac{3}{20}, -\frac{3}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{3}{10}, -\frac{3}{20}, -\frac{3}{20})$ $+ \frac{3}{10}\sqrt{3}e^1 \otimes e_9 - \frac{3}{10}\sqrt{3}e^2 \otimes e_8$	{123, 1234, 12345, 123456, 145678, 14578, 1478, 178, 345689, 34589, 3489, 389}
93:1	$0, 0, 0, 0, 0, 0, \frac{1}{1769}\sqrt{415110}e^{12}, \frac{6}{1769}\sqrt{6302}e^{13}, \frac{2}{1769}\sqrt{4521}e^{23}$	$(-\frac{55}{1769}, \frac{8}{61}, -\frac{124}{1769}, -\frac{466}{1769}, \frac{588}{1769}, \frac{130}{1769}, \frac{177}{1769}, -\frac{179}{1769}, \frac{108}{1769})$ $+ \frac{2}{1769}\sqrt{122478}e^1 \otimes e_4 + \frac{2}{1769}\sqrt{94119}e^5 \otimes e_7 + \frac{3}{1769}\sqrt{53430}e^2 \otimes e_8$	{123569, 12359, 16789, 1789, 2467, 247, 34568, 3458}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{178}\sqrt{6177}e^{12}, \frac{1}{178}\sqrt{6177}e^{13}, \frac{1}{89}\sqrt{142}e^{14}$	$(\frac{4}{89}, \frac{107}{356}, -\frac{51}{356}, \frac{7}{89}, -\frac{63}{178}, \frac{9}{89}, \frac{123}{356}, -\frac{35}{356}, \frac{11}{89})$ $+ \frac{1}{178}\sqrt{11218}e^2 \otimes e_8 + \frac{9}{178}\sqrt{142}e^1 \otimes e_5$	{1234, 12346, 12369, 1239, 14678, 1478, 16789, 1789, 245679, 24579, 2567, 257, 345689, 34589, 3568, 358}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{14691}e^{12}, \frac{2}{691}\sqrt{40710}e^{13}, \frac{12}{691}\sqrt{413}e^{14}$	$(\frac{168}{691}, -\frac{186}{691}, -\frac{165}{691}, -\frac{19}{691}, \frac{357}{691}, \frac{65}{691}, -\frac{18}{691}, \frac{3}{691}, \frac{149}{691})$ $+ \frac{2}{691}\sqrt{59118}e^1 \otimes e_2 + \frac{4}{691}\sqrt{12921}e^5 \otimes e_8$	{1345, 13456, 13569, 1359, 1468, 148, 1689, 189, 234689, 23489, 2368, 238, 24569, 2459, 25, 256}
93:2	$0, 0, 0, 0, 0, 0, \frac{6}{133}\sqrt{70}e^{12}, \frac{3}{133}\sqrt{155}e^{13}, \frac{6}{133}\sqrt{70}e^{14}$	$(\frac{39}{266}, \frac{18}{133}, -\frac{51}{266}, -\frac{37}{266}, \frac{46}{133}, -\frac{27}{133}, \frac{75}{266}, -\frac{6}{133}, \frac{1}{133})$ $+ \frac{3}{133}\sqrt{365}e^2 \otimes e_6 + \frac{3}{133}\sqrt{365}e^5 \otimes e_9 + \frac{3}{133}\sqrt{505}e^1 \otimes e_3$	{1245, 129, 14567, 1679, 23479, 2357, 3469, 356}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{203}e^{12}, \frac{2}{53}\sqrt{435}e^{13}, \frac{2}{53}\sqrt{435}e^{14}$	$(\frac{30}{53}, -\frac{28}{53}, -\frac{6}{53}, -\frac{6}{53}, \frac{9}{53}, \frac{9}{53}, \frac{2}{53}, \frac{24}{53}, \frac{24}{53})$ $+ \frac{4}{53}\sqrt{319}e^1 \otimes e_2$	{134, 1345, 13456, 13569, 1359, 139, 15689, 1589, 189, 2, 2345689, 234589, 23489, 23568, 2358, 238, 25, 256}
93:2	$0, 0, 0, 0, 0, 0, \frac{4}{71}\sqrt{33}e^{12}, \frac{4}{71}\sqrt{33}e^{13}, \frac{4}{71}\sqrt{22}e^{14}$	$(\frac{1}{71}, \frac{17}{71}, -\frac{6}{71}, -\frac{2}{71}, \frac{21}{71}, -\frac{21}{71}, \frac{18}{71}, -\frac{5}{71}, -\frac{1}{71})$ $+ \frac{2}{71}\sqrt{165}e^5 \otimes e_9 + \frac{2}{71}\sqrt{253}e^2 \otimes e_8 + \frac{6}{71}\sqrt{33}e^1 \otimes e_6$	{12345, 1239, 14578, 1789, 24679, 2567, 34689, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:2	$0, 0, 0, 0, 0, 0, \frac{3}{535}\sqrt{5882}e^{12}, \frac{12}{535}\sqrt{17}e^{13}, \frac{12}{535}\sqrt{17}e^{14}$	$\left(\frac{16}{535}, \frac{32}{535}, -\frac{137}{535}, \frac{6}{107}, \frac{201}{535}, \frac{38}{535}, \frac{48}{535}, -\frac{121}{535}, \frac{46}{535}\right) + \frac{3}{535}\sqrt{5542}e^5 \otimes e_7 + \frac{3}{535}\sqrt{5678}e^1 \otimes e_3 + \frac{3}{535}\sqrt{5678}e^2 \otimes e_8$	{14678, 1478, 16789, 1789, 345689, 34589, 3568, 358}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13}, \frac{1}{3}e^{14}$	$\left(-\frac{1}{3}, \frac{1}{4}, \frac{1}{4}, \frac{1}{12}, \frac{1}{12}, -\frac{1}{12}, -\frac{1}{12}, -\frac{1}{12}\right) + \frac{1}{6}\sqrt{11}e^2 \otimes e_8 + \frac{1}{6}\sqrt{11}e^3 \otimes e_7$	{123, 1234569, 123459, 12349, 1235, 12356, 1456789, 145789, 14789, 15678, 1578, 178, 24567, 2457, 247, 25679, 2579, 279}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12}, \frac{1}{52}\sqrt{335}e^{13}, \frac{1}{52}\sqrt{335}e^{14}$	$\left(-\frac{5}{52}, -\frac{5}{26}, \frac{23}{104}, \frac{23}{104}, 1, \frac{9}{52}, -\frac{15}{52}, \frac{1}{8}, \frac{1}{8}\right) + \frac{1}{52}\sqrt{5762}e^5 \otimes e_7$	{12345689, 1234589, 123568, 12358, 125, 1256, 1346789, 134789, 13678, 1378, 167, 17, 23467, 2347, 23679, 2379, 26789, 2789, 345, 3456, 3569, 359, 5689, 589}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13}, \frac{1}{3}e^{14}$	$\left(-\frac{1}{3}, \frac{1}{4}, \frac{1}{4}, \frac{1}{12}, \frac{1}{12}, -\frac{1}{12}, -\frac{1}{12}, -\frac{1}{12}\right) + \frac{1}{6}\sqrt{11}e^2 \otimes e_8 - \frac{1}{6}\sqrt{11}e^3 \otimes e_7$	{123, 1234569, 123459, 12349, 1235, 12356, 1456789, 145789, 14789, 15678, 1578, 178, 24567, 2457, 247, 25679, 2579, 279}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{1283}\sqrt{340518}e^{12}, \frac{3}{1283}\sqrt{1102}e^{13}, \frac{2}{1283}\sqrt{25897}e^{14}$	$\left(\frac{188}{1283}, \frac{226}{1283}, -\frac{363}{1283}, \frac{11}{1283}, \frac{376}{1283}, -\frac{325}{1283}, \frac{414}{1283}, -\frac{175}{1283}, \frac{199}{1283}\right) + \frac{1}{1283}\sqrt{298642}e^5 \otimes e_8 + \frac{2}{1283}\sqrt{118465}e^2 \otimes e_6 + \frac{3}{1283}\sqrt{58406}e^1 \otimes e_3$	{1245, 1259, 14567, 15679, 234579, 2357, 34569, 356}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{10370}e^{12}, \frac{2}{479}\sqrt{3355}e^{13}, \frac{4}{479}\sqrt{366}e^{14}$	$\left(\frac{48}{479}, \frac{5}{479}, -\frac{74}{479}, \frac{5}{479}, \frac{175}{479}, -\frac{117}{479}, \frac{53}{479}, -\frac{26}{479}, \frac{53}{479}\right) + \frac{2}{479}\sqrt{8906}e^2 \otimes e_6 + \frac{2}{479}\sqrt{8906}e^5 \otimes e_7 + \frac{2}{479}\sqrt{9638}e^1 \otimes e_3$	{1245, 1259, 1467, 1679, 23479, 237, 34569, 356}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{57}e^{12}, \frac{1}{19}\sqrt{57}e^{13}, \frac{2}{19}\sqrt{6}e^{14}$	$\left(-\frac{6}{19}, \frac{9}{38}, \frac{9}{38}, \frac{7}{38}, \frac{7}{38}, \frac{3}{38}, -\frac{3}{38}, -\frac{3}{38}, -\frac{5}{38}\right) + \frac{1}{19}\sqrt{93}e^2 \otimes e_8 - \frac{1}{19}\sqrt{93}e^3 \otimes e_7 + \frac{2}{19}\sqrt{6}e^5 \otimes e_9$	{123469, 12349, 1235, 12356, 146789, 14789, 15678, 1578, 24567, 2457, 2679, 279}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{57}e^{12}, \frac{1}{19}\sqrt{57}e^{13}, \frac{2}{19}\sqrt{6}e^{14}$	$\left(-\frac{6}{19}, \frac{9}{38}, \frac{9}{38}, \frac{7}{38}, \frac{7}{38}, \frac{3}{38}, -\frac{3}{38}, -\frac{3}{38}, -\frac{5}{38}\right) + \frac{1}{19}\sqrt{93}e^2 \otimes e_8 + \frac{1}{19}\sqrt{93}e^3 \otimes e_7 + \frac{2}{19}\sqrt{6}e^5 \otimes e_9$	{123469, 12349, 1235, 12356, 146789, 14789, 15678, 1578, 24567, 2457, 2679, 279}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{2130}e^{13}, \frac{2}{193}\sqrt{923}e^{14}$	$\left(-\frac{26}{193}, \frac{77}{193}, \frac{77}{193}, \frac{34}{193}, -\frac{65}{193}, -\frac{65}{193}, \frac{51}{193}, \frac{51}{193}, \frac{8}{193}\right) + \frac{2}{193}\sqrt{6106}e^2 \otimes e_5 + \frac{2}{193}\sqrt{6106}e^3 \otimes e_6$	{123, 12349, 124689, 1268, 1456789, 15678, 23478, 23789, 2467, 2679, 456, 569}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{483}\sqrt{6622}e^{12}, \frac{2}{483}\sqrt{3139}e^{13}, \frac{2}{483}\sqrt{4042}e^{14}$	$\left(\frac{1}{23}, \frac{2}{23}, -\frac{65}{483}, -\frac{65}{483}, \frac{149}{483}, \frac{29}{483}, \frac{3}{483}, -\frac{44}{483}, -\frac{44}{483}\right) + \frac{2}{483}\sqrt{7181}e^1 \otimes e_3 + \frac{2}{483}\sqrt{7181}e^2 \otimes e_9 + \frac{4}{483}\sqrt{1290}e^5 \otimes e_7$	{1245, 12456, 1679, 179, 2367, 237, 34569, 3459}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{2}{7}e^{13}, \frac{1}{7}\sqrt{7}e^{14}$	$\left(\frac{3}{28}, \frac{3}{14}, -\frac{5}{28}, -\frac{5}{28}, \frac{3}{14}, -\frac{1}{14}, \frac{9}{28}, -\frac{1}{14}, -\frac{1}{14}\right) + \frac{1}{7}\sqrt{11}e^1 \otimes e_3 + \frac{1}{7}\sqrt{11}e^2 \otimes e_9 + \frac{2}{7}e^5 \otimes e_6$	{1245, 1246, 1579, 1679, 2357, 2367, 3459, 3469}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{12}{691}\sqrt{413}e^{13}, \frac{2}{691}\sqrt{14691}e^{14}$	$\left(-\frac{166}{691}, \frac{169}{691}, -\frac{19}{691}, \frac{148}{691}, \frac{357}{691}, \frac{65}{691}, \frac{3}{691}, -\frac{185}{691}, -\frac{18}{691}\right) + \frac{2}{691}\sqrt{59118}e^2 \otimes e_8 + \frac{4}{691}\sqrt{12921}e^5 \otimes e_7$	{1234569, 123459, 1235, 12356, 146789, 14789, 1678, 178, 2467, 247, 2679, 279, 34568, 3458, 35689, 3589}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33}e^{12}, \frac{1}{25}\sqrt{11}e^{13}, \frac{1}{25}\sqrt{11}e^{14}$	$\left(-\frac{1}{5}, \frac{9}{50}, \frac{3}{10}, \frac{3}{50}, \frac{21}{50}, -\frac{13}{50}, -\frac{1}{50}, \frac{1}{10}, -\frac{7}{50}\right) + \frac{1}{25}\sqrt{187}e^2 \otimes e_6 + \frac{1}{25}\sqrt{187}e^3 \otimes e_7 + \frac{2}{25}\sqrt{33}e^3 \otimes e_9$	{12345, 12589, 13467, 16789, 2378, 2479, 3568, 4569}
93:2	$0, 0, 0, 0, 0, 0, \frac{6}{133}\sqrt{70}e^{12}, \frac{6}{133}\sqrt{70}e^{13}, \frac{3}{133}\sqrt{155}e^{14}$	$\left(-\frac{31}{133}, \frac{18}{133}, \frac{32}{133}, \frac{25}{133}, \frac{46}{133}, -\frac{27}{133}, -\frac{13}{133}, \frac{1}{133}, -\frac{6}{133}\right) + \frac{3}{133}\sqrt{365}e^2 \otimes e_6 + \frac{3}{133}\sqrt{365}e^5 \otimes e_8 + \frac{3}{133}\sqrt{505}e^3 \otimes e_7$	{123459, 1235, 146789, 1678, 2457, 2579, 3468, 3689}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{125}\sqrt{689}e^{12}, \frac{1}{125}\sqrt{3021}e^{13}, \frac{1}{125}\sqrt{689}e^{14}$	$\left(-\frac{31}{125}, \frac{48}{125}, \frac{26}{125}, \frac{4}{125}, \frac{37}{125}, -\frac{16}{125}, \frac{17}{125}, -\frac{1}{25}, -\frac{27}{125}\right) + \frac{2}{125}\sqrt{1166}e^2 \otimes e_8 + \frac{2}{125}\sqrt{1166}e^3 \otimes e_9 + \frac{53}{125}e^5 \otimes e_6$	{12345, 12346, 15789, 16789, 24579, 24679, 358, 368}
93:2	$0, 0, 0, 0, 0, 0, \frac{6}{1291}\sqrt{6227}e^{12}, \frac{1}{1291}\sqrt{2874}e^{13}, \frac{1}{1291}\sqrt{225130}e^{14}$	$\left(\frac{113}{1291}, \frac{226}{1291}, -\frac{366}{1291}, -\frac{130}{1291}, \frac{462}{1291}, \frac{105}{1291}, \frac{339}{1291}, -\frac{253}{1291}, -\frac{17}{1291}\right) + \frac{1}{1291}\sqrt{340090}e^2 \otimes e_8 + \frac{1}{1291}\sqrt{342006}e^5 \otimes e_9 + \frac{2}{1291}\sqrt{113523}e^1 \otimes e_3$	{1245, 12456, 1269, 129, 234679, 23479, 23567, 2357}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:2	$0, 0, 0, 0, 0, \frac{2}{197}\sqrt{3021}e^{12}, \frac{2}{197}\sqrt{689}e^{13}, \frac{2}{197}\sqrt{689}e^{14}$	$(\frac{26}{197}, \frac{52}{197}, -\frac{80}{197}, \frac{8}{197}, \frac{21}{197}, \frac{21}{197}, \frac{78}{197}, -\frac{54}{197}, \frac{34}{197})$ $+ \frac{4}{197}\sqrt{1166}e^1 \otimes e_3 + \frac{4}{197}\sqrt{1166}e^2 \otimes e_8$	{145678, 14578, 1478, 156789, 15789, 1789, 345689, 34589, 3489, 3568, 358, 38}
93:2	$0, 0, 0, 0, 0, \frac{3}{1283}\sqrt{1102}e^{12}, \frac{1}{1283}\sqrt{340518}e^{13}, \frac{2}{1283}\sqrt{25897}e^{14}$	$(\frac{188}{1283}, -\frac{363}{1283}, -\frac{204}{1283}, \frac{11}{1283}, \frac{376}{1283}, \frac{535}{1283}, -\frac{175}{1283}, -\frac{16}{1283}, \frac{199}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^5 \otimes e_7 + \frac{2}{1283}\sqrt{118465}e^6 \otimes e_8 + \frac{3}{1283}\sqrt{58406}e^1 \otimes e_2$	{13456, 13569, 1458, 1589, 234589, 2358, 24569, 256}
93:2	$0, 0, 0, 0, 0, \frac{1}{125}\sqrt{3021}e^{12}, \frac{1}{125}\sqrt{689}e^{13}, \frac{1}{125}\sqrt{689}e^{14}$	$(\frac{13}{125}, \frac{26}{125}, -\frac{8}{125}, \frac{4}{125}, \frac{37}{125}, -\frac{16}{125}, \frac{39}{125}, -\frac{27}{125}, \frac{17}{125})$ $+ \frac{2}{125}\sqrt{1166}e^1 \otimes e_3 + \frac{2}{125}\sqrt{1166}e^2 \otimes e_8 + \frac{53}{125}e^5 \otimes e_6$	{14578, 14678, 15789, 16789, 34589, 34689, 358, 368}
93:2	$0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12}, \frac{1}{52}\sqrt{335}e^{13}, \frac{1}{52}\sqrt{335}e^{14}$	$(-\frac{5}{52}, \frac{33}{52}, \frac{23}{104}, \frac{23}{104}, -\frac{17}{26}, \frac{9}{52}, \frac{7}{13}, \frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{52}\sqrt{5762}e^2 \otimes e_5$	{12, 1234689, 123489, 12368, 1238, 126, 13456789, 1345789, 135678, 13578, 1567, 157, 23467, 2347, 23679, 2379, 26789, 2789, 345, 3456, 3569, 359, 5689, 589}
93:2	$0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{12}{691}\sqrt{413}e^{13}, \frac{2}{691}\sqrt{14691}e^{14}$	$(-\frac{166}{691}, \frac{127}{691}, \frac{315}{691}, \frac{148}{691}, -\frac{227}{691}, \frac{65}{691}, -\frac{39}{691}, \frac{149}{691}, -\frac{18}{691})$ $+ \frac{2}{691}\sqrt{59118}e^3 \otimes e_7 + \frac{4}{691}\sqrt{12921}e^2 \otimes e_5$	{123, 123469, 12349, 1236, 1456789, 145789, 15678, 1578, 2467, 247, 2679, 279, 34568, 3458, 35689, 3589}
93:2	$0, 0, 0, 0, 0, \frac{1}{19}\sqrt{57}e^{12}, \frac{2}{19}\sqrt{6}e^{13}, \frac{1}{19}\sqrt{57}e^{14}$	$(\frac{7}{76}, \frac{9}{38}, -\frac{17}{76}, -\frac{13}{76}, \frac{7}{38}, \frac{3}{38}, \frac{25}{76}, -\frac{5}{38}, -\frac{3}{38})$ $+ \frac{1}{19}\sqrt{93}e^1 \otimes e_3 + \frac{1}{19}\sqrt{93}e^2 \otimes e_9 + \frac{2}{19}\sqrt{6}e^5 \otimes e_8$	{1245, 12456, 15679, 1579, 23567, 2357, 34569, 3459}
93:2	$0, 0, 0, 0, 0, \frac{3}{1283}\sqrt{1102}e^{12}, \frac{1}{1283}\sqrt{340518}e^{13}, \frac{2}{1283}\sqrt{25897}e^{14}$	$(-\frac{289}{1283}, \frac{385}{1283}, \frac{273}{1283}, \frac{11}{1283}, \frac{535}{1283}, -\frac{166}{1283}, \frac{96}{1283}, -\frac{16}{1283}, -\frac{278}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^2 \otimes e_6 + \frac{1}{1283}\sqrt{118465}e^5 \otimes e_8 + \frac{3}{1283}\sqrt{58406}e^3 \otimes e_9$	{123457, 12789, 13456, 1689, 238, 2459, 3678, 45679}
93:2	$0, 0, 0, 0, 0, \frac{3}{133}\sqrt{155}e^{12}, \frac{6}{133}\sqrt{70}e^{13}, \frac{6}{133}\sqrt{70}e^{14}$	$(\frac{39}{266}, -\frac{51}{266}, -\frac{266}{266}, -\frac{37}{266}, \frac{46}{133}, \frac{46}{133}, -\frac{6}{133}, \frac{1}{133}, \frac{1}{133})$ $+ \frac{3}{133}\sqrt{365}e^5 \otimes e_8 + \frac{3}{133}\sqrt{365}e^6 \otimes e_9 + \frac{3}{133}\sqrt{505}e^1 \otimes e_2$	{13456, 1359, 189, 23489, 2368, 256}
93:2	$0, 0, 0, 0, 0, \frac{1}{167}\sqrt{8366}e^{12}, \frac{1}{167}\sqrt{2314}e^{13}, \frac{1}{167}\sqrt{2314}e^{14}$	$(\frac{26}{167}, \frac{39}{167}, \frac{5}{167}, \frac{5}{167}, -\frac{63}{167}, -\frac{50}{167}, \frac{65}{167}, \frac{31}{167}, \frac{31}{167})$ $+ \frac{2}{167}\sqrt{3026}e^2 \otimes e_6 + \frac{9}{167}\sqrt{178}e^1 \otimes e_5$	{1234, 1239, 1289, 13467, 13679, 16789, 2345789, 23578, 257, 345689, 3568, 56}
93:2	$0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{2130}e^{13}, \frac{2}{193}\sqrt{923}e^{14}$	$(-\frac{26}{193}, -\frac{9}{193}, -\frac{9}{193}, \frac{34}{193}, \frac{107}{193}, \frac{107}{193}, -\frac{35}{193}, -\frac{35}{193}, \frac{8}{193})$ $+ \frac{2}{193}\sqrt{6106}e^5 \otimes e_7 + \frac{2}{193}\sqrt{6106}e^6 \otimes e_8$	{1234569, 12356, 124589, 1258, 14789, 178, 23478, 23789, 2467, 2679, 456, 569}
93:2	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12}, \frac{1}{13}\sqrt{21}e^{13}, \frac{1}{13}\sqrt{21}e^{14}$	$(\frac{1}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, 1, -\frac{8}{13}, \frac{3}{13}, \frac{3}{13}, \frac{3}{13})$ $+ \frac{21}{13}e^5 \otimes e_6$	{12345, 12346, 12359, 12369, 12589, 12689, 15789, 16789, 2345789, 2346789, 23578, 23678, 257, 267, 5, 6}
93:2	$0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{225130}e^{12}, \frac{6}{1291}\sqrt{6227}e^{13}, \frac{1}{1291}\sqrt{2874}e^{14}$	$(-\frac{361}{1291}, \frac{344}{1291}, \frac{226}{1291}, \frac{108}{1291}, \frac{462}{1291}, \frac{105}{1291}, -\frac{17}{1291}, -\frac{135}{1291}, -\frac{253}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^3 \otimes e_9 + \frac{1}{1291}\sqrt{342006}e^5 \otimes e_7 + \frac{2}{1291}\sqrt{113523}e^2 \otimes e_8$	{1235, 12356, 146789, 14789, 2679, 279, 34568, 3458}
93:2	$0, 0, 0, 0, 0, \frac{2}{197}\sqrt{689}e^{12}, \frac{2}{197}\sqrt{3021}e^{13}, \frac{2}{197}\sqrt{689}e^{14}$	$(-\frac{62}{197}, \frac{96}{197}, \frac{52}{197}, \frac{8}{197}, \frac{21}{197}, \frac{21}{197}, \frac{34}{197}, -\frac{10}{197}, -\frac{54}{197})$ $+ \frac{4}{197}\sqrt{1166}e^2 \otimes e_8 + \frac{4}{197}\sqrt{1166}e^3 \otimes e_9$	{1234, 12345, 123456, 156789, 15789, 1789, 245679, 24579, 2479, 3568, 358, 38}
93:2	$0, 0, 0, 0, 0, \frac{1}{55}\sqrt{1254}e^{12}, \frac{1}{55}\sqrt{1254}e^{13}, \frac{1}{55}\sqrt{1254}e^{14}$	$(\frac{2}{5}, -\frac{1}{55}, -\frac{1}{55}, -\frac{1}{55}, -\frac{7}{11}, \frac{2}{11}, \frac{21}{55}, \frac{21}{55}, \frac{21}{55})$ $+ \frac{3}{55}\sqrt{570}e^1 \otimes e_5$	{1234, 12346, 12369, 1239, 12689, 1289, 16789, 1789, 23456789, 2345789, 235678, 23578, 2567, 257, 5, 56}
93:2	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{2}{7}e^{14}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{7}\sqrt{11}e^2 \otimes e_8 + \frac{1}{7}\sqrt{11}e^3 \otimes e_7 + \frac{2}{7}e^5 \otimes e_6$	{123459, 123469, 1235, 1236, 145789, 146789, 1578, 1678, 2457, 2467, 2579, 2679}
93:2	$0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{1}{7}\sqrt{7}e^{13}, \frac{2}{7}e^{14}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{7}\sqrt{11}e^2 \otimes e_8 - \frac{1}{7}\sqrt{11}e^3 \otimes e_7 + \frac{2}{7}e^5 \otimes e_6$	{123459, 123469, 1235, 1236, 145789, 146789, 1578, 1678, 2457, 2467, 2579, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{167}\sqrt{8366}e^{12}, \frac{1}{167}\sqrt{2314}e^{13}, \frac{1}{167}\sqrt{2314}e^{14}$	$(\frac{26}{167}, -\frac{29}{167}, \frac{5}{167}, \frac{5}{167}, \frac{86}{167}, -\frac{63}{167}, -\frac{3}{167}, \frac{31}{167}, \frac{31}{167})$ $+ \frac{2}{167}\sqrt{3026}e^5 \otimes e_7 + \frac{9}{167}\sqrt{178}e^1 \otimes e_6$	{12345, 12359, 12589, 1347, 1379, 1789, 2346789, 23678, 267, 345689, 3568, 56}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{435}e^{12}, \frac{1}{41}\sqrt{435}e^{13}, \frac{1}{41}\sqrt{203}e^{14}$	$(-\frac{7}{41}, \frac{19}{41}, -\frac{3}{41}, \frac{8}{41}, \frac{19}{41}, -\frac{10}{41}, \frac{12}{41}, -\frac{10}{41}, \frac{1}{41})$ $+ \frac{29}{41}e^5 \otimes e_6 + \frac{2}{41}\sqrt{319}e^2 \otimes e_8$	{123459, 123469, 1235, 1236, 145789, 146789, 1578, 1678, 2457, 2467, 2579, 2679, 3458, 3468, 3589, 3689}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{435}e^{12}, \frac{2}{53}\sqrt{435}e^{13}, \frac{2}{53}\sqrt{203}e^{14}$	$(-\frac{14}{53}, \frac{38}{53}, -\frac{6}{53}, \frac{16}{53}, \frac{9}{53}, \frac{9}{53}, \frac{24}{53}, -\frac{20}{53}, \frac{2}{53})$ $+ \frac{4}{53}\sqrt{319}e^2 \otimes e_8$	{123, 1234569, 123459, 12349, 1235, 12356, 1456789, 145789, 14789, 15678, 1578, 178, 24567, 2457, 247, 25679, 2579, 279, 34568, 3458, 348, 35689, 3589, 389}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{3}e^{13}, \frac{1}{6}\sqrt{7}e^{14}$	$(\frac{1}{8}, \frac{1}{4}, -\frac{5}{24}, -\frac{5}{24}, \frac{1}{12}, \frac{1}{12}, \frac{3}{8}, -\frac{1}{12}, -\frac{1}{12})$ $+ \frac{1}{6}\sqrt{11}e^1 \otimes e_3 + \frac{1}{6}\sqrt{11}e^2 \otimes e_9$	{124, 1245, 12456, 15679, 1579, 179, 23567, 2357, 237, 34569, 3459, 349}
93:2	$0, 0, 0, 0, 0, 0, \frac{30}{47}e^{12}, \frac{5}{47}\sqrt{7}e^{13}, \frac{5}{47}\sqrt{7}e^{14}$	$(-\frac{7}{47}, \frac{15}{94}, \frac{15}{94}, \frac{15}{94}, \frac{51}{94}, -\frac{35}{94}, \frac{1}{94}, \frac{1}{94}, \frac{1}{94})$ $+ \frac{5}{47}\sqrt{43}e^2 \otimes e_6 + \frac{5}{47}\sqrt{43}e^5 \otimes e_7$	{1234589, 12358, 125, 1346789, 13678, 167, 2347, 2379, 2789, 3456, 3569, 5689}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{2}{691}\sqrt{14691}e^{13}, \frac{12}{691}\sqrt{413}e^{14}$	$(\frac{168}{691}, \frac{127}{691}, -\frac{186}{691}, -\frac{19}{691}, -\frac{227}{691}, \frac{65}{691}, \frac{295}{691}, -\frac{18}{691}, \frac{149}{691})$ $+ \frac{2}{691}\sqrt{59118}e^1 \otimes e_3 + \frac{4}{691}\sqrt{12921}e^2 \otimes e_5$	{124, 1246, 1269, 129, 14567, 1457, 15679, 1579, 234679, 23479, 2367, 237, 34569, 3459, 35, 356}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2002}e^{12}, \frac{1}{128}\sqrt{3003}e^{13}, \frac{1}{128}\sqrt{3003}e^{14}$	$(\frac{33}{128}, -\frac{29}{64}, -\frac{3}{256}, -\frac{3}{256}, \frac{3}{64}, \frac{15}{128}, -\frac{25}{128}, \frac{63}{256}, \frac{63}{256})$ $+ \frac{1}{128}\sqrt{9282}e^5 \otimes e_7 + \frac{1}{64}\sqrt{2821}e^1 \otimes e_2$	{13467, 1347, 13679, 1379, 16789, 1789, 2346789, 234789, 23678, 2378, 267, 27}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2002}e^{12}, \frac{1}{128}\sqrt{3003}e^{13}, \frac{1}{128}\sqrt{3003}e^{14}$	$(-\frac{29}{128}, \frac{55}{128}, \frac{121}{256}, -\frac{3}{256}, -\frac{9}{32}, \frac{15}{128}, \frac{13}{64}, \frac{63}{256}, -\frac{61}{256})$ $+ \frac{1}{128}\sqrt{9282}e^2 \otimes e_5 + \frac{1}{64}\sqrt{2821}e^3 \otimes e_9$	{1234, 12346, 12689, 1289, 134567, 13457, 156789, 15789, 23678, 2378, 24679, 2479, 3568, 358, 4569, 459}
93:2	$0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{2130}e^{13}, \frac{2}{193}\sqrt{923}e^{14}$	$(-\frac{26}{193}, \frac{77}{193}, -\frac{9}{193}, \frac{34}{193}, \frac{107}{193}, \frac{65}{193}, \frac{51}{193}, -\frac{35}{193}, \frac{8}{193})$ $+ \frac{2}{193}\sqrt{6106}e^2 \otimes e_6 + \frac{2}{193}\sqrt{6106}e^5 \otimes e_8$	{123459, 1235, 12489, 128, 1345679, 13567, 146789, 1678, 23478, 23789, 2457, 2579, 3468, 3689, 456, 569}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{1283}\sqrt{340518}e^{12}, \frac{2}{1283}\sqrt{25897}e^{13}, \frac{3}{1283}\sqrt{1102}e^{14}$	$(-\frac{289}{1283}, \frac{226}{1283}, \frac{488}{1283}, \frac{114}{1283}, \frac{376}{1283}, -\frac{325}{1283}, -\frac{63}{1283}, \frac{199}{1283}, -\frac{175}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^5 \otimes e_9 + \frac{2}{1283}\sqrt{118465}e^2 \otimes e_6 + \frac{3}{1283}\sqrt{58406}e^3 \otimes e_7$	{12349, 1235, 146789, 15678, 2457, 279, 34568, 3689}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{3003}e^{12}, \frac{1}{128}\sqrt{3003}e^{13}, \frac{1}{128}\sqrt{2002}e^{14}$	$(-\frac{29}{128}, \frac{121}{256}, -\frac{3}{256}, \frac{1}{32}, \frac{33}{64}, \frac{15}{128}, \frac{63}{256}, -\frac{61}{256}, -\frac{25}{128})$ $+ \frac{1}{128}\sqrt{9282}e^5 \otimes e_9 + \frac{1}{64}\sqrt{2821}e^2 \otimes e_8$	{12345, 123456, 12369, 1239, 145678, 14578, 16789, 1789, 24679, 2479, 2567, 257, 34689, 3489, 3568, 358}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{203}e^{12}, \frac{1}{41}\sqrt{435}e^{13}, \frac{1}{41}\sqrt{435}e^{14}$	$(\frac{15}{41}, -\frac{14}{41}, -\frac{3}{41}, -\frac{3}{41}, \frac{19}{41}, -\frac{10}{41}, \frac{1}{41}, \frac{12}{41}, \frac{12}{41})$ $+ \frac{29}{41}e^5 \otimes e_6 + \frac{2}{41}\sqrt{319}e^1 \otimes e_2$	{1345, 1346, 1359, 1369, 1589, 1689, 234589, 234689, 2358, 2368, 25, 26}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{1283}\sqrt{340518}e^{12}, \frac{2}{1283}\sqrt{25897}e^{13}, \frac{3}{1283}\sqrt{1102}e^{14}$	$(-\frac{289}{1283}, \frac{273}{1283}, \frac{11}{1283}, \frac{114}{1283}, \frac{535}{1283}, \frac{376}{1283}, -\frac{16}{1283}, -\frac{278}{1283}, -\frac{175}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^6 \otimes e_9 + \frac{2}{1283}\sqrt{118465}e^5 \otimes e_7 + \frac{3}{1283}\sqrt{58406}e^2 \otimes e_8$	{123459, 12356, 14789, 1678, 2467, 279, 34568, 3589}
93:2	$0, 0, 0, 0, 0, 0, \frac{1}{1769}\sqrt{415110}e^{12}, \frac{6}{1769}\sqrt{6302}e^{13}, \frac{2}{1769}\sqrt{4521}e^{14}$	$(-\frac{44}{1769}, \frac{221}{1769}, -\frac{146}{1769}, \frac{152}{1769}, \frac{588}{1769}, -\frac{455}{1769}, \frac{177}{1769}, -\frac{190}{1769}, \frac{108}{1769})$ $+ \frac{2}{1769}\sqrt{122478}e^2 \otimes e_8 + \frac{2}{1769}\sqrt{94119}e^5 \otimes e_7 + \frac{3}{1769}\sqrt{53430}e^1 \otimes e_6$	{123459, 1235, 14789, 178, 2467, 2679, 34568, 35689}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{301}\sqrt{1370}e^{12}, \frac{2}{301}\sqrt{6987}e^{13}, \frac{3}{301}\sqrt{1918}e^{24}$	$(\frac{53}{301}, -\frac{25}{301}, -\frac{69}{301}, \frac{121}{301}, -\frac{12}{43}, \frac{33}{301}, \frac{4}{43}, -\frac{16}{301}, \frac{96}{301})$ $+ \frac{1}{301}\sqrt{41374}e^4 \otimes e_8 + \frac{3}{301}\sqrt{3562}e^1 \otimes e_5$	{123467, 12347, 126789, 12789, 13469, 1349, 168, 18, 235689, 23589, 245, 2456, 35678, 3578, 45679, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{3058}e^{12}, \frac{1}{271}\sqrt{9174}e^{13}, \frac{1}{271}\sqrt{9174}e^{24}$	$\left(\frac{55}{271}, -\frac{20}{271}, -\frac{84}{271}, -\frac{9}{271}, \frac{110}{271}, \frac{110}{271}, \frac{35}{271}, -\frac{29}{271}, -\frac{29}{271}\right)$ $+ \frac{2}{271}\sqrt{5977}e^5 \otimes e_8 + \frac{2}{271}\sqrt{5977}e^6 \otimes e_9 + \frac{5}{271}\sqrt{834}e^1 \otimes e_3$	{12468, 1289, 14789, 1678, 234678, 23789, 3489, 368}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{196170}e^{12}, \frac{1}{1483}\sqrt{314878}e^{13}, \frac{1}{1483}\sqrt{178062}e^{24}$	$\left(\frac{218}{1483}, -\frac{240}{1483}, -\frac{181}{1483}, -\frac{45}{1483}, \frac{481}{1483}, \frac{540}{1483}, -\frac{22}{1483}, \frac{37}{1483}, -\frac{285}{1483}\right)$ $+ \frac{1}{1483}\sqrt{351094}e^5 \otimes e_7 + \frac{4}{1483}\sqrt{25653}e^6 \otimes e_8 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_9$	{123456, 12458, 1367, 178, 23789, 2679, 34589, 4569}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{71}\sqrt{546}e^{12}, \frac{1}{71}\sqrt{910}e^{13}, \frac{1}{71}\sqrt{910}e^{24}$	$\left(\frac{49}{71}, -\frac{10}{71}, -\frac{42}{71}, \frac{17}{71}, \frac{12}{71}, \frac{12}{71}, \frac{39}{71}, \frac{7}{71}, \frac{7}{71}\right)$ $+ \frac{1}{71}\sqrt{10738}e^1 \otimes e_3$	{12, 124569, 12459, 1249, 125, 1256, 14567, 1457, 147, 15679, 1579, 179, 2345679, 234579, 23479, 23567, 2357, 237, 34, 345, 3456, 3569, 359, 39}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{376}\sqrt{102}e^{12}, \frac{3}{188}\sqrt{799}e^{13}, \frac{3}{188}\sqrt{374}e^{24}$	$\left(-\frac{59}{376}, -\frac{9}{376}, \frac{123}{752}, \frac{85}{376}, \frac{311}{752}, -\frac{183}{752}, -\frac{17}{94}, \frac{5}{752}, \frac{19}{94}\right)$ $+ \frac{3}{376}\sqrt{3298}e^4 \otimes e_7 + \frac{3}{376}\sqrt{4199}e^3 \otimes e_6 + \frac{3}{376}\sqrt{4199}e^5 \otimes e_8$	{123579, 126789, 13459, 14689, 2348, 2456, 378, 567}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{3058}e^{12}, \frac{1}{271}\sqrt{9174}e^{13}, \frac{1}{271}\sqrt{9174}e^{24}$	$\left(\frac{55}{271}, -\frac{20}{271}, -\frac{84}{271}, \frac{77}{271}, \frac{110}{271}, -\frac{62}{271}, \frac{35}{271}, -\frac{29}{271}, \frac{57}{271}\right)$ $+ \frac{2}{271}\sqrt{5977}e^4 \otimes e_6 + \frac{2}{271}\sqrt{5977}e^5 \otimes e_8 + \frac{5}{271}\sqrt{834}e^1 \otimes e_3$	{1248, 12689, 14789, 1678, 23478, 236789, 3489, 368}
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{161}\sqrt{429}e^{12}, \frac{2}{161}\sqrt{462}e^{13}, \frac{2}{161}\sqrt{462}e^{24}$	$\left(\frac{31}{161}, \frac{31}{161}, -\frac{5}{23}, -\frac{5}{23}, \frac{43}{161}, -\frac{1}{7}, \frac{62}{161}, -\frac{4}{161}, -\frac{4}{161}\right)$ $+ \frac{2}{161}\sqrt{1947}e^1 \otimes e_3 + \frac{2}{161}\sqrt{1947}e^2 \otimes e_4 + \frac{66}{161}e^5 \otimes e_6$	{125, 126, 1457, 1467, 345, 346}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{196170}e^{12}, \frac{1}{1483}\sqrt{178062}e^{13}, \frac{1}{1483}\sqrt{314878}e^{24}$	$\left(\frac{109}{1483}, \frac{218}{1483}, -\frac{394}{1483}, -\frac{181}{1483}, \frac{540}{1483}, \frac{327}{1483}, -\frac{285}{1483}, \frac{37}{1483}\right)$ $+ \frac{1}{1483}\sqrt{351094}e^1 \otimes e_3 + \frac{4}{1483}\sqrt{25653}e^5 \otimes e_9 + \frac{6}{1483}\sqrt{16599}e^2 \otimes e_8$	{146789, 14789, 15678, 1578, 34689, 3489, 3568, 358}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{7}e^{12}, \frac{4}{11}\sqrt{7}e^{13}, \frac{2}{11}\sqrt{7}e^{24}$	$\left(-\frac{1}{11}, \frac{2}{11}, \frac{7}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{1}{11}, \frac{6}{11}, \frac{3}{11}\right)$ $+ \frac{6}{11}\sqrt{7}e^3 \otimes e_5$	{123467, 12347, 123679, 12379, 1245678, 124578, 1256789, 125789, 13, 13469, 1349, 136, 145689, 14589, 1568, 158, 23468, 2348, 23689, 2389, 245, 2456, 2569, 259, 346789, 34789, 3678, 378, 45679, 4579, 567, 57}
93:3	$0, 0, 0, 0, 0, 0, \frac{28}{247}\sqrt{2}e^{12}, \frac{4}{247}\sqrt{609}e^{13}, \frac{4}{247}\sqrt{609}e^{24}$	$\left(\frac{59}{247}, -\frac{49}{247}, -\frac{63}{247}, \frac{4}{19}, \frac{24}{247}, \frac{24}{247}, \frac{10}{247}, -\frac{4}{247}, \frac{3}{247}\right)$ $+ \frac{24}{247}\sqrt{21}e^1 \otimes e_9 + \frac{4}{247}\sqrt{805}e^4 \otimes e_8$	{1234567, 123457, 12347, 1568, 158, 18, 235689, 23589, 2389, 45679, 4579, 479}
93:3	$0, 0, 0, 0, 0, 0, \frac{28}{275}\sqrt{2}e^{12}, \frac{4}{275}\sqrt{609}e^{13}, \frac{4}{275}\sqrt{609}e^{24}$	$\left(\frac{59}{275}, -\frac{49}{275}, -\frac{63}{275}, \frac{52}{275}, \frac{52}{275}, -\frac{4}{275}, \frac{2}{55}, -\frac{4}{275}, \frac{3}{275}\right)$ $+ \frac{24}{275}\sqrt{21}e^1 \otimes e_9 + \frac{4}{275}\sqrt{805}e^4 \otimes e_8 + \frac{56}{275}e^5 \otimes e_6$	{123457, 123467, 158, 168, 23589, 23689, 4579, 4679}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{7}e^{12}, \frac{4}{11}\sqrt{7}e^{13}, \frac{2}{11}\sqrt{7}e^{24}$	$\left(-\frac{1}{11}, \frac{2}{11}, -\frac{2}{11}, \frac{1}{11}, 1, \frac{2}{11}, \frac{1}{11}, -\frac{3}{11}, \frac{3}{11}\right)$ $+ \frac{6}{11}\sqrt{7}e^5 \otimes e_8$	{1234567, 123457, 1235679, 123579, 124678, 12478, 126789, 12789, 134569, 13459, 135, 1356, 14689, 1489, 168, 18, 23468, 2348, 23689, 2389, 245, 2456, 2569, 259, 346789, 34789, 3678, 378, 45679, 4579, 567, 57}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{323}e^{12}, \frac{5}{47}\sqrt{17}e^{13}, \frac{2}{47}\sqrt{51}e^{24}$	$\left(\frac{5}{94}, \frac{12}{47}, -\frac{15}{94}, -\frac{1}{47}, -\frac{29}{94}, \frac{5}{47}, \frac{29}{94}, -\frac{5}{47}, \frac{11}{47}\right)$ $+ \frac{1}{47}\sqrt{663}e^1 \otimes e_5 + \frac{3}{47}\sqrt{85}e^2 \otimes e_8$	{1234, 12346, 12369, 1239, 146789, 14789, 1678, 178, 24567, 2457, 25679, 2579, 345689, 34589, 3568, 358}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{65}e^{12}, \frac{1}{35}\sqrt{130}e^{13}, \frac{1}{35}\sqrt{130}e^{24}$	$\left(\frac{17}{140}, \frac{17}{140}, -\frac{13}{70}, -\frac{13}{70}, \frac{1}{10}, \frac{1}{10}, \frac{17}{70}, -\frac{9}{140}, -\frac{9}{140}\right)$ $+ \frac{3}{70}\sqrt{91}e^1 \otimes e_9 + \frac{3}{70}\sqrt{91}e^2 \otimes e_8$	{1234, 12345, 123456, 15678, 1578, 178, 345689, 34589, 3489}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{1562}e^{12}, \frac{2}{77}\sqrt{781}e^{13}, \frac{2}{77}\sqrt{781}e^{24}$	$\left(\frac{4}{7}, -\frac{19}{77}, -\frac{8}{77}, -\frac{8}{77}, \frac{2}{11}, \frac{2}{11}, \frac{25}{77}, \frac{36}{77}, -\frac{27}{77}\right)$ $+ \frac{3}{77}\sqrt{994}e^1 \otimes e_9$	{1234, 12345, 123456, 124568, 12458, 1248, 13567, 1357, 137, 15678, 1578, 178, 2356789, 235789, 23789, 25679, 2579, 279, 345689, 34589, 3489, 4569, 459, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{599}\sqrt{11165}e^{12}, \frac{4}{599}\sqrt{4466}e^{13}, \frac{6}{599}\sqrt{2233}e^{24}$	$(-\frac{71}{599}, -\frac{82}{599}, \frac{231}{599}, \frac{253}{599}, -\frac{175}{599}, \frac{72}{599}, -\frac{153}{599}, \frac{160}{599}, \frac{171}{599})$ $+\frac{28}{599}\sqrt{290}e^4 \otimes e_7 + \frac{2}{599}\sqrt{50141}e^3 \otimes e_5$	{1234, 12346, 124568, 12458, 1367, 137, 15678, 1578, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{117}\sqrt{66}e^{12}, \frac{1}{117}\sqrt{1914}e^{13}, \frac{1}{117}\sqrt{1914}e^{24}$	$(\frac{3}{13}, -\frac{2}{13}, -\frac{19}{117}, \frac{4}{39}, \frac{41}{117}, -\frac{7}{39}, \frac{1}{13}, \frac{8}{117}, -\frac{2}{39})$ $+\frac{1}{117}\sqrt{2046}e^4 \otimes e_6 + \frac{1}{117}\sqrt{2046}e^5 \otimes e_8 + \frac{1}{39}\sqrt{330}e^1 \otimes e_9$	{123457, 12478, 1356, 168, 23689, 2569, 34789, 4579}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{3749}e^{12}, \frac{4}{719}\sqrt{9454}e^{13}, \frac{2}{719}\sqrt{22657}e^{24}$	$(\frac{185}{719}, -\frac{82}{719}, -\frac{152}{719}, -\frac{59}{719}, \frac{359}{719}, \frac{80}{719}, \frac{103}{719}, \frac{33}{719}, -\frac{141}{719})$ $+\frac{12}{719}\sqrt{1630}e^1 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^5 \otimes e_8$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{126}\sqrt{1218}e^{12}, \frac{1}{126}\sqrt{2030}e^{13}, \frac{1}{63}\sqrt{58}e^{24}$	$(-\frac{1}{28}, -\frac{4}{63}, \frac{11}{84}, \frac{13}{126}, \frac{41}{126}, -\frac{67}{252}, -\frac{25}{252}, \frac{2}{21}, \frac{5}{126})$ $+\frac{1}{126}\sqrt{2465}e^1 \otimes e_6 + \frac{1}{126}\sqrt{2465}e^3 \otimes e_7 + \frac{4}{63}\sqrt{29}e^5 \otimes e_8$	{123459, 1235, 1478, 1789, 245679, 2567, 3468, 3689}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{3749}e^{12}, \frac{2}{719}\sqrt{22657}e^{13}, \frac{4}{719}\sqrt{9454}e^{24}$	$(\frac{278}{719}, -\frac{175}{719}, -\frac{59}{719}, \frac{127}{719}, -\frac{199}{719}, \frac{80}{719}, \frac{103}{719}, \frac{219}{719}, -\frac{48}{719})$ $+\frac{12}{719}\sqrt{1630}e^1 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^4 \otimes e_5$	{1234, 12346, 12468, 1248, 13567, 1357, 15678, 1578, 2356789, 235789, 25679, 2579, 34689, 3489, 469, 49}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{599}\sqrt{11165}e^{12}, \frac{6}{599}\sqrt{2233}e^{13}, \frac{4}{599}\sqrt{4466}e^{24}$	$(\frac{198}{599}, -\frac{71}{599}, -\frac{27}{599}, \frac{231}{599}, -\frac{208}{599}, -\frac{175}{599}, \frac{127}{599}, \frac{171}{599}, \frac{160}{599})$ $+\frac{28}{599}\sqrt{290}e^1 \otimes e_5 + \frac{2}{599}\sqrt{50141}e^4 \otimes e_6$	{1234, 12369, 1248, 12689, 13479, 1367, 14789, 1678, 234578, 2356789, 2457, 25679, 34589, 3568, 459, 56}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{11438}e^{12}, \frac{2}{377}\sqrt{5453}e^{13}, \frac{1}{377}\sqrt{10374}e^{24}$	$(\frac{37}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{121}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{12}{377}, \frac{72}{377})$ $+\frac{1}{377}\sqrt{33782}e^4 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^1 \otimes e_6 + \frac{4}{377}\sqrt{1463}e^5 \otimes e_7$	{12345, 12589, 13479, 178, 236789, 2467, 3568, 4569}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{19043}e^{12}, \frac{2}{731}\sqrt{39730}e^{13}, \frac{28}{731}\sqrt{137}e^{24}$	$(-\frac{82}{731}, \frac{12}{731}, \frac{159}{731}, -\frac{127}{731}, \frac{351}{731}, \frac{69}{731}, -\frac{70}{731}, \frac{77}{731}, -\frac{115}{731})$ $+\frac{2}{731}\sqrt{38634}e^5 \otimes e_8 + \frac{2}{731}\sqrt{13015}e^3 \otimes e_9$	{1234567, 123457, 126789, 12789, 135, 1356, 14689, 1489, 23468, 2348, 2569, 259, 3678, 378, 45679, 4579}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{4578}e^{12}, \frac{1}{73}\sqrt{1090}e^{13}, \frac{1}{146}\sqrt{327}e^{24}$	$(\frac{81}{292}, -\frac{3}{146}, -\frac{137}{292}, \frac{9}{73}, \frac{81}{146}, \frac{33}{292}, \frac{75}{292}, -\frac{14}{73}, \frac{15}{146})$ $+\frac{1}{146}\sqrt{14061}e^5 \otimes e_8 + \frac{1}{146}\sqrt{14170}e^1 \otimes e_3$	{124689, 12489, 1268, 128, 14678, 1478, 16789, 1789, 2346789, 234789, 23678, 2378, 3468, 348, 3689, 389}
93:3	$0, 0, 0, 0, 0, 0, \frac{5}{103}\sqrt{26}e^{12}, \frac{4}{103}\sqrt{65}e^{13}, \frac{3}{103}\sqrt{130}e^{24}$	$(\frac{17}{103}, -\frac{26}{103}, -\frac{11}{103}, \frac{17}{103}, \frac{32}{103}, \frac{9}{103}, -\frac{9}{103}, \frac{6}{103}, -\frac{9}{103})$ $-\frac{1}{103}\sqrt{1586}e^4 \otimes e_7 + \frac{2}{103}\sqrt{299}e^5 \otimes e_8 + \frac{9}{103}\sqrt{26}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{5}{103}\sqrt{26}e^{12}, \frac{4}{103}\sqrt{65}e^{13}, \frac{3}{103}\sqrt{130}e^{24}$	$(\frac{17}{103}, -\frac{26}{103}, -\frac{11}{103}, \frac{17}{103}, \frac{32}{103}, \frac{9}{103}, -\frac{9}{103}, \frac{6}{103}, -\frac{9}{103})$ $+\frac{1}{103}\sqrt{1586}e^4 \otimes e_7 + \frac{2}{103}\sqrt{299}e^5 \otimes e_8 + \frac{9}{103}\sqrt{26}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{6}{269}\sqrt{330}e^{12}, \frac{2}{269}\sqrt{1430}e^{13}, \frac{2}{269}\sqrt{1430}e^{24}$	$(\frac{26}{269}, \frac{52}{269}, -\frac{84}{269}, -\frac{2}{269}, \frac{79}{269}, -\frac{31}{269}, \frac{78}{269}, -\frac{58}{269}, \frac{50}{269})$ $+\frac{110}{269}e^5 \otimes e_6 + \frac{12}{269}\sqrt{165}e^2 \otimes e_8 + \frac{2}{269}\sqrt{4510}e^1 \otimes e_3$	{145789, 146789, 1578, 1678, 34589, 34689, 358, 368}
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{127}e^{12}, \frac{5}{313}\sqrt{762}e^{13}, \frac{1}{313}\sqrt{8382}e^{24}$	$(-\frac{56}{313}, -\frac{14}{313}, \frac{57}{313}, -\frac{6}{313}, \frac{128}{313}, \frac{107}{313}, -\frac{70}{313}, \frac{1}{313}, -\frac{20}{313})$ $+\frac{1}{313}\sqrt{25654}e^5 \otimes e_8 + \frac{1}{313}\sqrt{26670}e^3 \otimes e_7 + \frac{4}{313}\sqrt{1270}e^6 \otimes e_9$	{123456, 12359, 14789, 1678, 24567, 2579, 3489, 368}
93:3	$0, 0, 0, 0, 0, 0, \frac{5}{103}\sqrt{26}e^{12}, \frac{3}{103}\sqrt{130}e^{13}, \frac{4}{103}\sqrt{65}e^{24}$	$(\frac{9}{206}, \frac{17}{103}, -\frac{27}{206}, -\frac{11}{103}, \frac{32}{103}, -\frac{43}{206}, \frac{43}{206}, -\frac{9}{103}, \frac{6}{103})$ $+\frac{1}{103}\sqrt{1586}e^1 \otimes e_6 + \frac{2}{103}\sqrt{299}e^5 \otimes e_9 + \frac{9}{103}\sqrt{26}e^2 \otimes e_8$	{12345, 1239, 14789, 1578, 24567, 2679, 34689, 3568}
93:3	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{37}e^{12}, \frac{12}{137}\sqrt{13}e^{13}, \frac{12}{137}\sqrt{13}e^{24}$	$(\frac{26}{137}, \frac{26}{137}, \frac{2}{137}, \frac{2}{137}, -\frac{46}{137}, -\frac{46}{137}, \frac{52}{137}, \frac{28}{137}, \frac{28}{137})$ $+\frac{12}{137}\sqrt{61}e^1 \otimes e_5 + \frac{12}{137}\sqrt{61}e^2 \otimes e_6$	{1234, 1239, 1289, 134679, 1367, 146789, 1678, 345689, 3568, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, \frac{1}{91}\sqrt{627}e^{12}, \frac{2}{91}\sqrt{266}e^{13}, \frac{2}{91}\sqrt{266}e^{24}$	$(-\frac{5}{91}, -\frac{5}{91}, \frac{2}{91}, \frac{16}{91}, \frac{30}{91}, -\frac{17}{91}, -\frac{10}{91}, -\frac{3}{91}, \frac{11}{91})$ $+ \frac{1}{91}\sqrt{893}e^3 \otimes e_6 + \frac{1}{91}\sqrt{893}e^5 \otimes e_9 + \frac{5}{91}\sqrt{57}e^4 \otimes e_8$	{123457, 126789, 1349, 1568, 2389, 2456, 3578, 4679}
93:3	$0, 0, 0, 0, 0, \frac{4}{1573}\sqrt{17453}e^{12}, \frac{3}{1573}\sqrt{14638}e^{13}, \frac{1}{1573}\sqrt{323162}e^{24}$	$(\frac{18}{121}, -\frac{400}{1573}, \frac{18}{1573}, \frac{397}{1573}, \frac{560}{1573}, -\frac{329}{1573}, -\frac{166}{1573}, \frac{252}{1573}, -\frac{3}{1573})$ $+ \frac{3}{1573}\sqrt{68686}e^4 \otimes e_7 + \frac{4}{1573}\sqrt{32654}e^1 \otimes e_6 + \frac{5}{1573}\sqrt{19142}e^5 \otimes e_9$	{12345, 12458, 1357, 1578, 236789, 2679, 34689, 469}
93:3	$0, 0, 0, 0, 0, \frac{3}{107}\sqrt{330}e^{12}, \frac{1}{107}\sqrt{1430}e^{13}, \frac{1}{107}\sqrt{1430}e^{24}$	$(\frac{26}{107}, -\frac{28}{107}, -\frac{1}{107}, -\frac{1}{107}, \frac{53}{107}, \frac{12}{107}, -\frac{2}{107}, \frac{25}{107}, -\frac{29}{107})$ $+ \frac{1}{107}\sqrt{4510}e^5 \otimes e_7 + \frac{6}{107}\sqrt{165}e^1 \otimes e_9$	{12345, 123456, 124568, 12458, 1367, 137, 1678, 178, 236789, 23789, 2679, 279, 345689, 34589, 4569, 459}
93:3	$0, 0, 0, 0, 0, \frac{4}{699}\sqrt{7337}e^{12}, \frac{22}{699}\sqrt{230}e^{13}, \frac{4}{699}\sqrt{759}e^{24}$	$(-\frac{146}{699}, -\frac{8}{233}, \frac{112}{233}, \frac{92}{699}, \frac{111}{233}, -\frac{173}{699}, \frac{170}{699}, \frac{190}{699}, \frac{68}{699})$ $+ \frac{1}{699}\sqrt{92598}e^3 \otimes e_7 + \frac{506}{699}e^5 \otimes e_6$	{123459, 123469, 1235, 1236, 14578, 14678, 15789, 16789, 24579, 24679, 257, 267, 3458, 3468, 3589, 3689}
93:3	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{323}e^{12}, \frac{2}{47}\sqrt{51}e^{13}, \frac{5}{47}\sqrt{17}e^{24}$	$(\frac{12}{47}, -\frac{17}{47}, -\frac{1}{47}, \frac{12}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{5}{47}, \frac{11}{47}, -\frac{5}{47})$ $+ \frac{1}{47}\sqrt{663}e^4 \otimes e_7 + \frac{3}{47}\sqrt{85}e^1 \otimes e_9$	{1234, 12345, 123456, 124568, 12458, 1248, 13567, 1357, 137, 15678, 1578, 178, 2356789, 235789, 23789, 25679, 2579, 279, 345689, 34589, 3489, 4569, 459, 49}
93:3	$0, 0, 0, 0, 0, \frac{1}{47}\sqrt{323}e^{12}, \frac{2}{47}\sqrt{51}e^{13}, \frac{5}{47}\sqrt{17}e^{24}$	$(\frac{12}{47}, -\frac{17}{47}, -\frac{1}{47}, \frac{12}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{5}{47}, \frac{11}{47}, -\frac{5}{47})$ $- \frac{1}{47}\sqrt{663}e^4 \otimes e_7 + \frac{3}{47}\sqrt{85}e^1 \otimes e_9$	{1234, 12345, 123456, 124568, 12458, 1248, 13567, 1357, 137, 15678, 1578, 178, 2356789, 235789, 23789, 25679, 2579, 279, 345689, 34589, 3489, 4569, 459, 49}
93:3	$0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{196170}e^{12}, \frac{1}{1483}\sqrt{178062}e^{13}, \frac{1}{1483}\sqrt{314878}e^{24}$	$(\frac{354}{1483}, -\frac{376}{1483}, -\frac{45}{1483}, \frac{227}{1483}, \frac{481}{1483}, -\frac{276}{1483}, -\frac{22}{1483}, \frac{309}{1483}, -\frac{149}{1483})$ $+ \frac{1}{1483}\sqrt{351094}e^5 \otimes e_7 + \frac{4}{1483}\sqrt{25653}e^4 \otimes e_6 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_9$	{12345, 12458, 1367, 1678, 236789, 2679, 34589, 459}
93:3	$0, 0, 0, 0, 0, \frac{1}{202}\sqrt{8690}e^{12}, \frac{7}{202}\sqrt{158}e^{13}, \frac{1}{101}\sqrt{474}e^{24}$	$(\frac{13}{404}, -\frac{12}{101}, \frac{123}{404}, \frac{31}{202}, -\frac{145}{404}, \frac{19}{202}, -\frac{35}{404}, \frac{34}{101}, \frac{7}{202})$ $+ \frac{1}{202}\sqrt{14457}e^1 \otimes e_5 + \frac{1}{202}\sqrt{14457}e^3 \otimes e_7$	{123, 123469, 12349, 1236, 14678, 1478, 16789, 1789, 245679, 24579, 2567, 34568, 3458, 35689, 3589}
93:3	$0, 0, 0, 0, 0, \frac{2}{739}\sqrt{1370}e^{12}, \frac{4}{739}\sqrt{6987}e^{13}, \frac{6}{739}\sqrt{1918}e^{24}$	$(-\frac{128}{739}, -\frac{50}{739}, \frac{96}{739}, \frac{242}{739}, \frac{203}{739}, -\frac{71}{739}, -\frac{178}{739}, -\frac{32}{739}, \frac{192}{739})$ $+ \frac{274}{739}e^5 \otimes e_6 + \frac{2}{739}\sqrt{41374}e^4 \otimes e_8 + \frac{6}{739}\sqrt{3562}e^3 \otimes e_7$	{125789, 126789, 13459, 13469, 23589, 23689, 4579, 4679}
93:3	$0, 0, 0, 0, 0, \frac{1}{248}\sqrt{11739}e^{12}, \frac{3}{496}\sqrt{1462}e^{13}, \frac{1}{496}\sqrt{258}e^{24}$	$(\frac{107}{992}, \frac{1}{248}, -\frac{151}{992}, \frac{7}{124}, \frac{369}{992}, -\frac{127}{496}, \frac{111}{992}, -\frac{11}{248}, \frac{15}{248})$ $+ \frac{1}{496}\sqrt{40119}e^1 \otimes e_3 + \frac{1}{496}\sqrt{40119}e^5 \otimes e_7 + \frac{3}{248}\sqrt{1118}e^2 \otimes e_6$	{1245, 1259, 14679, 167, 2347, 2379, 34569, 356}
93:3	$0, 0, 0, 0, 0, \frac{1}{185}\sqrt{6314}e^{12}, \frac{1}{185}\sqrt{1886}e^{13}, \frac{1}{185}\sqrt{1886}e^{24}$	$(\frac{13}{185}, \frac{13}{185}, -\frac{28}{185}, -\frac{28}{185}, \frac{67}{185}, \frac{8}{185}, \frac{26}{185}, -\frac{3}{37}, -\frac{3}{37})$ $+ \frac{1}{185}\sqrt{4838}e^1 \otimes e_3 + \frac{1}{185}\sqrt{4838}e^2 \otimes e_4 + \frac{1}{185}\sqrt{4838}e^5 \otimes e_7$	{125, 1256, 1467, 147, 345, 3456}
93:3	$0, 0, 0, 0, 0, \frac{106}{1649}\sqrt{7}e^{12}, \frac{3}{1649}\sqrt{48230}e^{13}, \frac{2}{1649}\sqrt{52682}e^{24}$	$(\frac{72}{1649}, -\frac{52}{1649}, \frac{161}{1649}, -\frac{158}{1649}, \frac{604}{1649}, -\frac{299}{1649}, \frac{20}{1649}, \frac{233}{1649}, \frac{210}{1649})$ $+ \frac{2}{1649}\sqrt{115010}e^3 \otimes e_9 + \frac{2}{1649}\sqrt{88669}e^5 \otimes e_8 + \frac{5}{1649}\sqrt{12614}e^1 \otimes e_6$	{123457, 12789, 135, 1489, 23468, 2569, 3678, 45679}
93:3	$0, 0, 0, 0, 0, \frac{1}{473}\sqrt{42490}e^{12}, \frac{1}{1419}\sqrt{52202}e^{13}, \frac{2}{1419}\sqrt{32171}e^{24}$	$(\frac{74}{473}, -\frac{302}{1419}, -\frac{35}{129}, \frac{527}{1419}, \frac{148}{473}, \frac{119}{1419}, -\frac{80}{1419}, -\frac{163}{1419}, \frac{75}{473})$ $+ \frac{1}{1419}\sqrt{559654}e^1 \otimes e_3 + \frac{2}{1419}\sqrt{155999}e^4 \otimes e_7 + \frac{5}{1419}\sqrt{15782}e^5 \otimes e_8$	{12468, 1248, 1678, 178, 236789, 23789, 34689, 3489}
93:3	$0, 0, 0, 0, 0, \frac{2}{599}\sqrt{11165}e^{12}, \frac{6}{599}\sqrt{2233}e^{13}, \frac{4}{599}\sqrt{4466}e^{24}$	$(\frac{198}{599}, -\frac{71}{599}, -\frac{27}{599}, -\frac{16}{599}, \frac{319}{599}, -\frac{208}{599}, \frac{127}{599}, \frac{171}{599}, -\frac{87}{599})$ $+ \frac{28}{599}\sqrt{290}e^1 \otimes e_6 + \frac{2}{599}\sqrt{5014}e^5 \otimes e_9$	{12345, 1239, 12458, 1289, 13479, 1357, 14789, 1578, 2345678, 236789, 24567, 2679, 34689, 3568, 469, 56}
93:3	$0, 0, 0, 0, 0, \frac{23}{1443}\sqrt{170}e^{12}, \frac{2}{1443}\sqrt{75463}e^{13}, \frac{1}{1443}\sqrt{319838}e^{24}$	$(-\frac{152}{1443}, -\frac{175}{1443}, \frac{64}{1443}, \frac{101}{481}, \frac{173}{481}, \frac{119}{1443}, -\frac{109}{481}, -\frac{88}{1443}, \frac{128}{1443})$ $+ \frac{1}{1443}\sqrt{258842}e^3 \otimes e_7 + \frac{1}{1443}\sqrt{463726}e^4 \otimes e_8 + \frac{20}{1443}\sqrt{782}e^5 \otimes e_9$	{126789, 12789, 13469, 1349, 23689, 2389, 4679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{12}{181}\sqrt{22}e^{12}, \frac{33}{181}\sqrt{10}e^{13}, \frac{3}{181}\sqrt{22}e^{24}$	$(\frac{33}{181}, \frac{2}{181}, -\frac{36}{181}, \frac{18}{181}, \frac{96}{181}, -\frac{66}{181}, \frac{35}{181}, -\frac{3}{181}, \frac{20}{181})$ $+\frac{33}{181}\sqrt{14}e^5 \otimes e_8 + \frac{3}{181}\sqrt{1870}e^1 \otimes e_6$	{12345, 12359, 1248, 1289, 134579, 1357, 14789, 178, 234678, 236789, 24567, 25679, 34689, 368, 4569, 56}
93:3	$0, 0, 0, 0, 0, 0, \frac{16}{53}\sqrt{2}e^{12}, \frac{8}{53}\sqrt{15}e^{13}, \frac{8}{53}\sqrt{15}e^{24}$	$(-\frac{1}{53}, -\frac{1}{53}, \frac{22}{53}, -\frac{9}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{2}{53}, \frac{21}{53}, -\frac{10}{53})$ $+\frac{32}{53}e^5 \otimes e_6 + \frac{8}{53}\sqrt{31}e^3 \otimes e_9$	{123457, 123467, 125789, 126789, 135, 136, 14589, 14689, 23458, 23468, 259, 269, 3578, 3678, 4579, 4679}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{301}\sqrt{1370}e^{12}, \frac{2}{301}\sqrt{6987}e^{13}, \frac{3}{301}\sqrt{1918}e^{24}$	$(-\frac{64}{301}, -\frac{25}{301}, \frac{48}{301}, \frac{121}{301}, \frac{33}{301}, \frac{33}{301}, -\frac{89}{301}, -\frac{16}{301}, \frac{96}{301})$ $+\frac{1}{301}\sqrt{41374}e^4 \otimes e_8 + \frac{3}{301}\sqrt{3562}e^3 \otimes e_7$	{1256789, 125789, 12789, 134569, 13459, 1349, 235689, 23589, 2389, 45679, 4579, 479}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{371}\sqrt{978}e^{12}, \frac{3}{371}\sqrt{326}e^{13}, \frac{1}{371}\sqrt{30970}e^{24}$	$(\frac{101}{371}, -\frac{68}{371}, -\frac{62}{371}, \frac{64}{371}, \frac{3}{7}, -\frac{99}{371}, \frac{33}{371}, \frac{39}{371}, -\frac{4}{371})$ $+\frac{1}{371}\sqrt{27058}e^1 \otimes e_3 + \frac{1}{371}\sqrt{42054}e^4 \otimes e_6 + \frac{1}{371}\sqrt{42054}e^5 \otimes e_9$	{12458, 12689, 14789, 15678, 234578, 236789, 3489, 3568}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{429}e^{12}, \frac{1}{64}\sqrt{462}e^{13}, \frac{1}{64}\sqrt{462}e^{24}$	$(\frac{31}{128}, \frac{31}{128}, -\frac{35}{128}, -\frac{35}{128}, \frac{5}{64}, \frac{5}{64}, \frac{31}{64}, -\frac{1}{32}, -\frac{1}{32})$ $+\frac{1}{64}\sqrt{1947}e^1 \otimes e_3 + \frac{1}{64}\sqrt{1947}e^2 \otimes e_4$	{12, 125, 1256, 14567, 1457, 147, 34, 345, 3456}
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{455}\sqrt{2865}e^{12}, \frac{1}{455}\sqrt{10887}e^{13}, \frac{2}{455}\sqrt{2674}e^{24}$	$(\frac{197}{910}, -\frac{227}{910}, -\frac{37}{182}, \frac{176}{455}, \frac{2}{7}, -\frac{61}{455}, -\frac{3}{91}, \frac{6}{455}, \frac{25}{182})$ $+\frac{191}{455}e^5 \otimes e_6 + \frac{1}{455}\sqrt{59401}e^1 \otimes e_3 + \frac{1}{455}\sqrt{64749}e^4 \otimes e_7$	{1245, 1246, 157, 167, 23579, 23679, 3459, 3469}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{19043}e^{12}, \frac{2}{731}\sqrt{39730}e^{13}, \frac{28}{731}\sqrt{137}e^{24}$	$(-\frac{82}{731}, \frac{12}{731}, \frac{61}{731}, \frac{253}{731}, -\frac{213}{731}, \frac{69}{731}, -\frac{70}{731}, -\frac{21}{731}, \frac{265}{731})$ $+\frac{2}{731}\sqrt{38634}e^3 \otimes e_5 + \frac{4}{731}\sqrt{13015}e^4 \otimes e_8$	{123467, 12347, 1256789, 125789, 13469, 1349, 1568, 158, 23689, 2389, 245, 2456, 3678, 378, 45679, 4579}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{7337}e^{12}, \frac{11}{223}\sqrt{230}e^{13}, \frac{2}{223}\sqrt{759}e^{24}$	$(-\frac{73}{223}, -\frac{12}{223}, \frac{168}{223}, \frac{46}{223}, \frac{40}{223}, \frac{40}{223}, -\frac{85}{223}, \frac{95}{223}, \frac{34}{223})$ $+\frac{1}{223}\sqrt{92598}e^3 \otimes e_7$	{123, 1234569, 123459, 12349, 1235, 12356, 145678, 14578, 1478, 156789, 15789, 1789, 245679, 24579, 2479, 2567, 257, 27, 34568, 3458, 348, 35689, 3589, 389}
93:3	$0, 0, 0, 0, 0, 0, \frac{23}{1443}\sqrt{170}e^{12}, \frac{2}{1443}\sqrt{75463}e^{13}, \frac{1}{1443}\sqrt{319838}e^{24}$	$(\frac{179}{1443}, -\frac{175}{1443}, -\frac{89}{481}, \frac{101}{481}, \frac{173}{481}, -\frac{212}{1443}, \frac{4}{1443}, -\frac{88}{1443}, \frac{128}{1443})$ $+\frac{1}{1443}\sqrt{258842}e^1 \otimes e_6 + \frac{1}{1443}\sqrt{463726}e^4 \otimes e_8 + \frac{20}{1443}\sqrt{782}e^5 \otimes e_9$	{123457, 12789, 1349, 158, 23689, 2456, 35678, 4679}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{323}e^{12}, \frac{10}{111}\sqrt{17}e^{13}, \frac{4}{111}\sqrt{51}e^{24}$	$(\frac{11}{111}, -\frac{7}{37}, \frac{8}{37}, -\frac{2}{111}, \frac{9}{37}, -\frac{7}{111}, -\frac{10}{111}, \frac{35}{111}, -\frac{23}{111})$ $+\frac{2}{111}\sqrt{663}e^3 \otimes e_7 + \frac{2}{37}\sqrt{85}e^1 \otimes e_9 + \frac{34}{111}e^5 \otimes e_6$	{12345, 12346, 1578, 1678, 2579, 2679, 34589, 34689}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{51}e^{12}, \frac{2}{35}\sqrt{21}e^{13}, \frac{2}{35}\sqrt{21}e^{24}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, \frac{1}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35})$ $+\frac{1}{35}\sqrt{93}e^3 \otimes e_9 + \frac{1}{35}\sqrt{93}e^4 \otimes e_8 + \frac{3}{35}e^5 \otimes e_6$	{123457, 123467, 125789, 126789, 3578, 3678}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{51}e^{12}, \frac{4}{67}\sqrt{21}e^{13}, \frac{4}{67}\sqrt{21}e^{24}$	$(-\frac{6}{67}, -\frac{6}{67}, \frac{8}{67}, \frac{8}{67}, \frac{5}{67}, \frac{5}{67}, -\frac{12}{67}, \frac{2}{67}, \frac{2}{67})$ $+\frac{2}{67}\sqrt{93}e^3 \otimes e_9 + \frac{2}{67}\sqrt{93}e^4 \otimes e_8$	{1234567, 123457, 12347, 1256789, 125789, 12789, 35678, 3578, 378}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{11438}e^{12}, \frac{5}{377}\sqrt{1330}e^{13}, \frac{2}{377}\sqrt{5453}e^{24}$	$(-\frac{49}{377}, -\frac{6}{377}, \frac{37}{377}, \frac{121}{377}, \frac{6}{29}, -\frac{96}{377}, -\frac{55}{377}, -\frac{12}{377}, \frac{115}{377})$ $+\frac{1}{377}\sqrt{34314}e^3 \otimes e_6 + \frac{2}{377}\sqrt{11305}e^4 \otimes e_8 + \frac{3}{377}\sqrt{1330}e^5 \otimes e_7$	{12347, 126789, 13459, 1568, 23589, 2456, 378, 4679}
93:3	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{37}e^{12}, \frac{12}{137}\sqrt{13}e^{13}, \frac{12}{137}\sqrt{13}e^{24}$	$(\frac{26}{137}, -\frac{35}{137}, \frac{2}{137}, \frac{63}{137}, -\frac{46}{137}, \frac{15}{137}, -\frac{9}{137}, \frac{28}{137}, \frac{28}{137})$ $+\frac{12}{137}\sqrt{61}e^1 \otimes e_5 + \frac{12}{137}\sqrt{61}e^4 \otimes e_7$	{1234, 12346, 12468, 1248, 1367, 137, 1678, 178, 2356789, 235789, 25679, 2579, 345689, 34589, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{16}{37}\sqrt{2}e^{12}, \frac{8}{37}\sqrt{15}e^{13}, \frac{8}{37}\sqrt{15}e^{24}$	$(-\frac{1}{37}, -\frac{1}{37}, \frac{22}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{2}{37}, \frac{21}{37}, -\frac{10}{37})$ $+\frac{8}{37}\sqrt{31}e^3 \otimes e_9$	{1234567, 123457, 12347, 1256789, 125789, 12789, 13, 135, 1356, 145689, 14589, 1489, 234568, 23458, 2348, 2569, 259, 29, 35678, 3578, 378, 45679, 4579, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{1573}\sqrt{17453}e^{12}, \frac{1}{1573}\sqrt{323162}e^{13}, \frac{3}{1573}\sqrt{14638}e^{24}$	$(\frac{149}{1573}, -\frac{230}{1573}, -\frac{152}{1573}, \frac{482}{1573}, \frac{560}{1573}, -\frac{414}{1573}, -\frac{81}{1573}, -\frac{3}{1573}, \frac{252}{1573})$ $+\frac{3}{1573}\sqrt{68686}e^1 \otimes e_6 + \frac{4}{1573}\sqrt{32654}e^4 \otimes e_7 + \frac{5}{1573}\sqrt{19142}e^5 \otimes e_8$	{12345, 1248, 1357, 178, 236789, 25679, 34689, 4569}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{1753}\sqrt{357870}e^{12}, \frac{2}{1753}\sqrt{57670}e^{13}, \frac{2}{1753}\sqrt{20145}e^{24}$	$(-\frac{37}{1753}, \frac{204}{1753}, -\frac{154}{1753}, \frac{36}{1753}, \frac{562}{1753}, -\frac{432}{1753}, \frac{167}{1753}, -\frac{191}{1753}, \frac{240}{1753})$ $+\frac{10}{1753}\sqrt{4503}e^1 \otimes e_6 + \frac{3}{1753}\sqrt{54510}e^2 \otimes e_8 + \frac{4}{1753}\sqrt{20935}e^5 \otimes e_7$	{12345, 12359, 14789, 178, 2467, 2679, 345689, 3568}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{11438}e^{12}, \frac{5}{377}\sqrt{1330}e^{13}, \frac{2}{377}\sqrt{5453}e^{24}$	$(-\frac{49}{377}, -\frac{6}{377}, \frac{6}{29}, -\frac{49}{377}, \frac{6}{29}, \frac{162}{377}, -\frac{55}{377}, \frac{1}{13}, -\frac{55}{377})$ $+\frac{1}{377}\sqrt{34314}e^6 \otimes e_8 + \frac{2}{377}\sqrt{11305}e^3 \otimes e_9 + \frac{3}{377}\sqrt{1330}e^5 \otimes e_7$	{123467, 12789, 1356, 14589, 23458, 2569, 378, 4679}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{4578}e^{12}, \frac{1}{73}\sqrt{1090}e^{13}, \frac{1}{146}\sqrt{327}e^{24}$	$(-\frac{49}{292}, -\frac{3}{146}, -\frac{7}{29}, \frac{9}{73}, \frac{163}{292}, \frac{81}{146}, -\frac{55}{292}, -\frac{14}{73}, \frac{15}{146})$ $+\frac{1}{146}\sqrt{14061}e^6 \otimes e_8 + \frac{1}{146}\sqrt{14170}e^5 \otimes e_7$	{1234569, 12356, 124589, 1258, 13467, 13679, 1478, 1789, 234789, 2378, 24679, 267, 3458, 3589, 456, 569}
93:3	$0, 0, 0, 0, 0, 0, \frac{30}{379}\sqrt{21}e^{12}, \frac{6}{379}\sqrt{553}e^{13}, \frac{12}{379}\sqrt{14}e^{24}$	$(\frac{18}{379}, -\frac{51}{379}, \frac{93}{379}, \frac{24}{379}, \frac{99}{379}, -\frac{108}{379}, -\frac{33}{379}, \frac{111}{379}, -\frac{27}{379})$ $+\frac{6}{379}\sqrt{469}e^5 \otimes e_9 + \frac{84}{379}\sqrt{5}e^1 \otimes e_6 + \frac{84}{379}\sqrt{5}e^3 \otimes e_7$	{12345, 1239, 14789, 1578, 24567, 2679, 34689, 3568}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{71}\sqrt{546}e^{12}, \frac{1}{71}\sqrt{910}e^{13}, \frac{1}{71}\sqrt{910}e^{24}$	$(-\frac{10}{71}, -\frac{10}{71}, \frac{17}{71}, \frac{17}{71}, 1, \frac{12}{71}, -\frac{20}{71}, \frac{7}{71}, \frac{7}{71})$ $+\frac{1}{71}\sqrt{10738}e^5 \otimes e_7$	{12345689, 1234589, 123568, 12358, 125, 1256, 134678, 13478, 136789, 13789, 1467, 147, 1679, 179, 345, 3456, 3569, 359, 5689, 589}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{599}\sqrt{11165}e^{12}, \frac{6}{599}\sqrt{2233}e^{13}, \frac{4}{599}\sqrt{4466}e^{24}$	$(-\frac{82}{599}, -\frac{71}{599}, \frac{253}{599}, -\frac{16}{599}, \frac{319}{599}, \frac{72}{599}, -\frac{153}{599}, \frac{171}{599}, -\frac{87}{599})$ $+\frac{28}{599}\sqrt{290}e^3 \otimes e_7 + \frac{2}{599}\sqrt{50141}e^5 \otimes e_9$	{12345, 123456, 12369, 1239, 146789, 14789, 15678, 1578, 24567, 2457, 2679, 279, 34689, 3489, 3568, 358}
93:3	$0, 0, 0, 0, 0, 0, \frac{9}{406}\sqrt{298}e^{12}, \frac{1}{406}\sqrt{4917}e^{13}, \frac{1}{203}\sqrt{5215}e^{24}$	$(\frac{41}{203}, -\frac{239}{812}, -\frac{67}{406}, \frac{223}{812}, \frac{141}{406}, \frac{9}{116}, -\frac{75}{812}, \frac{15}{406}, -\frac{4}{203})$ $+\frac{1}{406}\sqrt{32631}e^5 \otimes e_9 + \frac{1}{406}\sqrt{34270}e^1 \otimes e_3 + \frac{5}{203}\sqrt{447}e^4 \otimes e_7$	{1245, 12456, 1567, 157, 23679, 2379, 3469, 349}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{7337}e^{12}, \frac{11}{223}\sqrt{230}e^{13}, \frac{2}{223}\sqrt{759}e^{24}$	$(\frac{110}{223}, -\frac{12}{223}, -\frac{15}{223}, \frac{46}{223}, \frac{143}{223}, \frac{40}{223}, \frac{98}{223}, \frac{95}{223}, \frac{34}{223})$ $+\frac{1}{223}\sqrt{92598}e^1 \otimes e_5$	{123, 123469, 12349, 1236, 124689, 12489, 1268, 128, 13467, 1347, 13679, 1379, 14678, 1478, 16789, 1789, 23456789, 2345789, 235678, 23578, 245679, 24579, 2567, 257, 34568, 3458, 35689, 3589, 45, 456, 569, 59}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{76}\sqrt{30}e^{12}, \frac{1}{38}\sqrt{95}e^{13}, \frac{1}{38}\sqrt{95}e^{24}$	$(-\frac{5}{76}, -\frac{5}{76}, \frac{17}{152}, \frac{17}{152}, -\frac{5}{76}, \frac{3}{38}, -\frac{5}{38}, \frac{7}{152}, \frac{7}{152})$ $+\frac{1}{76}\sqrt{110}e^5 \otimes e_7 + \frac{9}{76}\sqrt{5}e^3 \otimes e_9 + \frac{9}{76}\sqrt{5}e^4 \otimes e_8$	{1234567, 123457, 1256789, 125789, 35678, 3578}
93:3	$0, 0, 0, 0, 0, 0, \frac{8}{719}\sqrt{2865}e^{12}, \frac{2}{719}\sqrt{10887}e^{13}, \frac{4}{719}\sqrt{2674}e^{24}$	$(\frac{197}{719}, -\frac{227}{719}, -\frac{185}{719}, \frac{352}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{30}{719}, \frac{12}{719}, \frac{125}{719})$ $+\frac{2}{719}\sqrt{59401}e^1 \otimes e_3 + \frac{2}{719}\sqrt{64749}e^4 \otimes e_7$	{124, 1245, 12456, 1567, 157, 17, 235679, 23579, 2379, 34569, 3459, 349}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{323}e^{12}, \frac{5}{47}\sqrt{17}e^{13}, \frac{2}{47}\sqrt{51}e^{24}$	$(\frac{11}{94}, -\frac{21}{94}, \frac{12}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{5}{47}, \frac{35}{94}, -\frac{23}{94})$ $+\frac{1}{47}\sqrt{663}e^3 \otimes e_7 + \frac{3}{47}\sqrt{85}e^1 \otimes e_9$	{1234, 12345, 123456, 15678, 1578, 178, 25679, 2579, 279, 345689, 34589, 3489}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{196170}e^{12}, \frac{1}{1483}\sqrt{314878}e^{13}, \frac{1}{1483}\sqrt{178062}e^{24}$	$(\frac{218}{1483}, -\frac{240}{1483}, \frac{227}{1483}, -\frac{45}{1483}, \frac{481}{1483}, -\frac{276}{1483}, -\frac{22}{1483}, \frac{445}{1483}, -\frac{285}{1483})$ $+\frac{1}{1483}\sqrt{351094}e^5 \otimes e_7 + \frac{4}{1483}\sqrt{25653}e^3 \otimes e_6 + \frac{6}{1483}\sqrt{16599}e^1 \otimes e_9$	{12345, 124568, 137, 1678, 23789, 2679, 34589, 4569}
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{153}\sqrt{65}e^{12}, \frac{4}{153}\sqrt{130}e^{13}, \frac{4}{153}\sqrt{130}e^{24}$	$(\frac{1}{9}, \frac{1}{9}, -\frac{26}{153}, -\frac{26}{153}, \frac{3}{17}, \frac{1}{153}, \frac{2}{9}, -\frac{1}{17}, -\frac{1}{17})$ $+\frac{26}{153}e^5 \otimes e_6 + \frac{2}{51}\sqrt{91}e^1 \otimes e_9 + \frac{2}{51}\sqrt{91}e^2 \otimes e_8$	{12345, 12346, 1578, 1678, 34589, 34689}
93:3	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{127}e^{12}, \frac{1}{313}\sqrt{8382}e^{13}, \frac{5}{313}\sqrt{762}e^{24}$	$(-\frac{14}{313}, -\frac{56}{313}, \frac{74}{313}, \frac{57}{313}, \frac{128}{313}, -\frac{53}{313}, -\frac{70}{313}, \frac{60}{313}, \frac{1}{313})$ $+\frac{1}{313}\sqrt{25654}e^5 \otimes e_9 + \frac{1}{313}\sqrt{26670}e^4 \otimes e_7 + \frac{4}{313}\sqrt{1270}e^3 \otimes e_6$	{12345, 124568, 1357, 15678, 23789, 2679, 3489, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{301}\sqrt{1370}e^{12}, \frac{2}{301}\sqrt{6987}e^{13}, \frac{3}{301}\sqrt{1918}e^{24}$	$(\frac{53}{301}, -\frac{25}{301}, \frac{82}{301}, -\frac{30}{301}, -\frac{12}{43}, \frac{33}{301}, \frac{4}{43}, \frac{135}{301}, -\frac{55}{301})$ $+\frac{1}{301}\sqrt{41374}e^3 \otimes e_9 + \frac{1}{301}\sqrt{3562}e^1 \otimes e_5$	{123467, 12347, 126789, 12789, 13, 136, 14689, 1489, 234568, 23458, 2569, 259, 35678, 3578, 45679, 4579}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{11438}e^{12}, \frac{2}{377}\sqrt{5453}e^{13}, \frac{5}{377}\sqrt{1330}e^{24}$	$(\frac{3}{29}, -\frac{49}{377}, -\frac{94}{377}, \frac{6}{29}, \frac{162}{377}, \frac{33}{377}, -\frac{10}{377}, -\frac{55}{377}, \frac{1}{13})$ $+\frac{1}{377}\sqrt{34314}e^5 \otimes e_9 + \frac{2}{377}\sqrt{11305}e^4 \otimes e_8 + \frac{3}{377}\sqrt{1330}e^1 \otimes e_3$	{126789, 12789, 1568, 158, 23689, 2389, 35678, 3578}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{323}e^{12}, \frac{4}{111}\sqrt{51}e^{13}, \frac{10}{111}\sqrt{17}e^{24}$	$(\frac{8}{37}, -\frac{34}{111}, -\frac{2}{111}, \frac{8}{37}, \frac{9}{37}, -\frac{7}{111}, -\frac{10}{111}, \frac{22}{111}, -\frac{10}{111})$ $-\frac{2}{111}\sqrt{663}e^4 \otimes e_7 + \frac{2}{37}\sqrt{85}e^1 \otimes e_9 + \frac{34}{111}e^5 \otimes e_6$	{12345, 12346, 12458, 12468, 1357, 1367, 1578, 1678, 235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{323}e^{12}, \frac{4}{111}\sqrt{51}e^{13}, \frac{10}{111}\sqrt{17}e^{24}$	$(\frac{8}{37}, -\frac{34}{111}, -\frac{2}{111}, \frac{8}{37}, \frac{9}{37}, -\frac{7}{111}, -\frac{10}{111}, \frac{22}{111}, -\frac{10}{111})$ $+\frac{2}{111}\sqrt{663}e^4 \otimes e_7 + \frac{2}{37}\sqrt{85}e^1 \otimes e_9 + \frac{34}{111}e^5 \otimes e_6$	{12345, 12346, 12458, 12468, 1357, 1367, 1578, 1678, 235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{143}\sqrt{114}e^{12}, \frac{1}{143}\sqrt{1178}e^{13}, \frac{1}{143}\sqrt{1178}e^{24}$	$(\frac{8}{143}, \frac{8}{143}, -\frac{19}{143}, -\frac{19}{143}, \frac{35}{143}, \frac{12}{143}, \frac{16}{143}, -\frac{1}{13}, -\frac{1}{13})$ $+\frac{1}{143}\sqrt{874}e^5 \otimes e_7 + \frac{1}{143}\sqrt{57}e^1 \otimes e_9 + \frac{6}{143}\sqrt{57}e^2 \otimes e_8$	{12345, 123456, 1678, 178, 345689, 34589}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{11438}e^{12}, \frac{2}{377}\sqrt{5453}e^{13}, \frac{1}{377}\sqrt{10374}e^{24}$	$(\frac{37}{377}, -\frac{49}{377}, \frac{6}{29}, -\frac{6}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, \frac{115}{377}, -\frac{55}{377})$ $+\frac{1}{377}\sqrt{33782}e^3 \otimes e_9 + \frac{1}{377}\sqrt{34314}e^1 \otimes e_6 + \frac{4}{377}\sqrt{1463}e^5 \otimes e_7$	{12345, 12589, 137, 14789, 234678, 2679, 3568, 4569}
93:3	$0, 0, 0, 0, 0, 0, \frac{6}{233}\sqrt{546}e^{12}, \frac{2}{233}\sqrt{910}e^{13}, \frac{2}{233}\sqrt{910}e^{24}$	$(\frac{98}{233}, -\frac{20}{233}, -\frac{84}{233}, \frac{34}{233}, \frac{115}{233}, -\frac{67}{233}, \frac{78}{233}, \frac{14}{233}, \frac{14}{233})$ $+\frac{182}{233}e^5 \otimes e_6 + \frac{2}{233}\sqrt{10738}e^1 \otimes e_3$	{12459, 12469, 125, 126, 1457, 1467, 1579, 1679, 234579, 234679, 2357, 2367, 345, 346, 359, 369}
93:3	$0, 0, 0, 0, 0, 0, \frac{12}{181}\sqrt{22}e^{12}, \frac{33}{181}\sqrt{10}e^{13}, \frac{3}{181}\sqrt{22}e^{24}$	$(-\frac{52}{181}, \frac{2}{181}, \frac{49}{181}, \frac{18}{181}, \frac{96}{181}, \frac{19}{181}, -\frac{50}{181}, -\frac{3}{181}, \frac{20}{181})$ $+\frac{33}{181}\sqrt{14}e^5 \otimes e_8 + \frac{3}{181}\sqrt{1870}e^3 \otimes e_7$	{12345, 123456, 123569, 12359, 146789, 14789, 1678, 178, 24567, 2457, 25679, 2579, 34689, 3489, 368, 38}
93:3	$0, 0, 0, 0, 0, 0, \frac{8}{719}\sqrt{2865}e^{12}, \frac{2}{719}\sqrt{10887}e^{13}, \frac{4}{719}\sqrt{2674}e^{24}$	$(\frac{197}{719}, \frac{112}{719}, -\frac{185}{719}, \frac{13}{719}, -\frac{270}{719}, \frac{69}{719}, \frac{309}{719}, \frac{12}{719}, \frac{125}{719})$ $+\frac{2}{719}\sqrt{59401}e^1 \otimes e_3 + \frac{2}{719}\sqrt{64749}e^2 \otimes e_5$	{124, 1246, 1269, 129, 145679, 14579, 1567, 157, 23467, 2347, 23679, 2379, 34569, 3459, 35, 356}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{3354}e^{12}, \frac{2}{137}\sqrt{78}e^{13}, \frac{2}{137}\sqrt{78}e^{24}$	$(\frac{4}{137}, \frac{8}{137}, -\frac{35}{137}, \frac{6}{137}, \frac{51}{137}, \frac{10}{137}, \frac{12}{137}, -\frac{31}{137}, \frac{14}{137})$ $+\frac{1}{137}\sqrt{3198}e^1 \otimes e_3 + \frac{1}{137}\sqrt{3198}e^5 \otimes e_7 + \frac{3}{137}\sqrt{390}e^2 \otimes e_8$	{146789, 14789, 1678, 178, 345689, 34589, 3568, 358}
93:3	$0, 0, 0, 0, 0, 0, \frac{9}{406}\sqrt{298}e^{12}, \frac{1}{406}\sqrt{4917}e^{13}, \frac{1}{203}\sqrt{5215}e^{24}$	$(\frac{41}{203}, \frac{61}{812}, -\frac{67}{406}, -\frac{11}{116}, \frac{141}{406}, -\frac{237}{812}, \frac{225}{812}, \frac{15}{406}, -\frac{4}{203})$ $+\frac{1}{406}\sqrt{32631}e^5 \otimes e_9 + \frac{1}{406}\sqrt{34270}e^1 \otimes e_3 + \frac{5}{203}\sqrt{447}e^2 \otimes e_6$	{1245, 129, 14679, 1567, 23457, 2379, 3469, 356}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{1219}e^{12}, \frac{2}{199}\sqrt{3922}e^{13}, \frac{2}{199}\sqrt{742}e^{24}$	$(-\frac{32}{199}, \frac{28}{199}, \frac{35}{199}, \frac{5}{199}, \frac{109}{199}, -\frac{71}{199}, -\frac{4}{199}, \frac{3}{199}, \frac{33}{199})$ $+\frac{6}{199}\sqrt{530}e^3 \otimes e_6 + \frac{6}{199}\sqrt{530}e^5 \otimes e_8$	{123457, 123579, 124678, 126789, 13459, 135, 14689, 168, 2348, 2389, 2456, 2569, 34789, 378, 45679, 567}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{225}\sqrt{1562}e^{12}, \frac{4}{225}\sqrt{781}e^{13}, \frac{4}{225}\sqrt{781}e^{24}$	$(\frac{88}{225}, -\frac{38}{225}, -\frac{16}{225}, -\frac{16}{225}, \frac{11}{25}, -\frac{43}{225}, \frac{2}{25}, \frac{8}{25}, -\frac{6}{25})$ $+\frac{142}{225}e^5 \otimes e_6 + \frac{2}{75}\sqrt{994}e^1 \otimes e_9$	{12345, 12346, 12458, 12468, 1357, 1367, 1578, 1678, 235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{4578}e^{12}, \frac{1}{146}\sqrt{327}e^{13}, \frac{1}{73}\sqrt{1090}e^{24}$	$(\frac{31}{73}, -\frac{49}{292}, -\frac{47}{146}, -\frac{7}{292}, \frac{81}{146}, \frac{33}{292}, \frac{75}{292}, \frac{15}{146}, -\frac{14}{73})$ $+\frac{1}{146}\sqrt{14061}e^5 \otimes e_9 + \frac{1}{146}\sqrt{14170}e^1 \otimes e_3$	{1245, 12456, 1269, 129, 14679, 1479, 1567, 157, 234567, 23457, 23679, 2379, 3469, 349, 35, 356}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{29}e^{12}, \frac{1}{18}\sqrt{58}e^{13}, \frac{1}{18}\sqrt{58}e^{24}$	$(\frac{1}{9}, \frac{5}{36}, \frac{5}{36}, 1, -\frac{11}{18}, \frac{2}{9}, \frac{1}{4}, \frac{1}{4})$ $+\frac{29}{18}e^5 \otimes e_6$	{12345, 12346, 12359, 12369, 12589, 12689, 134579, 134679, 1357, 1367, 145789, 146789, 1578, 1678, 34589, 34689, 358, 368, 5, 6}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{6}e^{13}, \frac{2}{9}\sqrt{6}e^{24}$	$(0, 0, \frac{1}{3}, -\frac{1}{9}, \frac{5}{9}, -\frac{1}{3}, 0, \frac{1}{3}, -\frac{1}{9})$ $+ \frac{4}{9}\sqrt{3}e^3 \otimes e_6 + \frac{4}{9}\sqrt{3}e^5 \otimes e_9$	{123457, 12379, 1245678, 126789, 1349, 135, 14689, 1568, 23458, 2389, 2456, 269, 34789, 3578, 4679, 567}
93:3	$0, 0, 0, 0, 0, 0, \frac{32}{73}e^{12}, \frac{8}{73}\sqrt{3}e^{13}, \frac{8}{73}\sqrt{3}e^{24}$	$(\frac{11}{73}, -\frac{13}{73}, -\frac{21}{73}, \frac{22}{73}, \frac{30}{73}, \frac{6}{73}, -\frac{2}{73}, -\frac{10}{73}, \frac{9}{73})$ $+ \frac{16}{73}\sqrt{6}e^1 \otimes e_3 + \frac{16}{73}\sqrt{6}e^5 \otimes e_7 + \frac{8}{73}\sqrt{19}e^4 \otimes e_8$	{125689, 12589, 1678, 178, 236789, 23789, 3568, 358}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{4578}e^{12}, \frac{1}{73}\sqrt{1090}e^{13}, \frac{1}{146}\sqrt{327}e^{24}$	$(-\frac{49}{292}, -\frac{3}{146}, \frac{61}{146}, \frac{9}{73}, \frac{163}{292}, -\frac{24}{73}, -\frac{55}{292}, \frac{1}{4}, \frac{15}{146})$ $+ \frac{1}{146}\sqrt{14061}e^3 \otimes e_6 + \frac{1}{146}\sqrt{14170}e^5 \otimes e_7$	{123459, 1235, 1245689, 12568, 1347, 1379, 14678, 16789, 234789, 2378, 24679, 267, 3458, 3589, 456, 569}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{473}\sqrt{42490}e^{12}, \frac{1}{1419}\sqrt{52202}e^{13}, \frac{2}{1419}\sqrt{32171}e^{24}$	$(\frac{74}{473}, \frac{212}{1419}, -\frac{35}{129}, \frac{13}{1419}, \frac{148}{473}, -\frac{395}{1419}, \frac{434}{1419}, -\frac{163}{1419}, \frac{75}{473})$ $+ \frac{1}{1419}\sqrt{559654}e^1 \otimes e_3 + \frac{2}{1419}\sqrt{155999}e^2 \otimes e_6 + \frac{5}{1419}\sqrt{15782}e^5 \otimes e_8$	{1248, 1289, 146789, 1678, 23478, 23789, 34689, 368}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{6}e^{13}, \frac{2}{9}\sqrt{6}e^{24}$	$(0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{4}{9}\sqrt{3}e^3 \otimes e_5 + \frac{4}{9}\sqrt{3}e^4 \otimes e_6$	{12347, 123679, 1256789, 1349, 136, 14589, 1568, 34789, 3678, 567}
93:3	$0, 0, 0, 0, 0, 0, \frac{12}{181}\sqrt{22}e^{12}, \frac{33}{181}\sqrt{10}e^{13}, \frac{3}{181}\sqrt{22}e^{24}$	$(\frac{33}{181}, \frac{2}{181}, \frac{41}{181}, \frac{18}{181}, -\frac{66}{181}, -\frac{58}{181}, \frac{35}{181}, \frac{74}{181}, \frac{20}{181})$ $+ \frac{33}{181}\sqrt{14}e^3 \otimes e_6 + \frac{3}{181}\sqrt{1870}e^1 \otimes e_5$	{1234, 1239, 12468, 12689, 13479, 137, 146789, 1678, 234578, 235789, 24567, 25679, 34589, 358, 4569, 56}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{4578}e^{12}, \frac{1}{146}\sqrt{327}e^{13}, \frac{1}{73}\sqrt{1090}e^{24}$	$(\frac{31}{73}, -\frac{49}{292}, -\frac{47}{146}, \frac{61}{146}, -\frac{24}{73}, \frac{33}{292}, \frac{75}{292}, \frac{15}{146}, \frac{1}{4})$ $+ \frac{1}{146}\sqrt{14061}e^4 \otimes e_5 + \frac{1}{146}\sqrt{14170}e^1 \otimes e_3$	{124, 1246, 12569, 1259, 14679, 1479, 1567, 157, 23467, 2347, 235679, 23579, 3469, 349, 35, 356}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{244}\sqrt{565}e^{12}, \frac{1}{244}\sqrt{9379}e^{13}, \frac{1}{488}\sqrt{16498}e^{24}$	$(\frac{53}{488}, -\frac{25}{488}, \frac{23}{976}, -\frac{35}{488}, \frac{355}{976}, -\frac{203}{976}, \frac{7}{122}, \frac{129}{976}, -\frac{15}{122})$ $+ \frac{3}{488}\sqrt{3503}e^3 \otimes e_6 + \frac{3}{488}\sqrt{3503}e^5 \otimes e_8 + \frac{3}{488}\sqrt{4294}e^1 \otimes e_9$	{123457, 124678, 135, 168, 2389, 2569, 34789, 45679}
93:3	$0, 0, 0, 0, 0, 0, \frac{8}{719}\sqrt{2865}e^{12}, \frac{4}{719}\sqrt{2674}e^{13}, \frac{2}{719}\sqrt{10887}e^{24}$	$(\frac{112}{719}, -\frac{114}{719}, \frac{13}{719}, \frac{126}{719}, \frac{380}{719}, -\frac{270}{719}, -\frac{2}{719}, \frac{125}{719}, \frac{12}{719})$ $+ \frac{2}{719}\sqrt{59401}e^5 \otimes e_7 + \frac{2}{719}\sqrt{64749}e^1 \otimes e_6$	{123459, 1235, 124589, 1258, 1347, 1379, 1478, 1789, 2346789, 23678, 24679, 267, 34568, 35689, 456, 569}
93:3	$0, 0, 0, 0, 0, 0, \frac{3}{107}\sqrt{330}e^{12}, \frac{1}{107}\sqrt{1430}e^{13}, \frac{1}{107}\sqrt{1430}e^{24}$	$(\frac{13}{107}, \frac{26}{107}, -\frac{42}{107}, -\frac{1}{107}, \frac{12}{107}, \frac{12}{107}, \frac{39}{107}, -\frac{29}{107}, \frac{25}{107})$ $+ \frac{1}{107}\sqrt{4510}e^1 \otimes e_3 + \frac{6}{107}\sqrt{165}e^2 \otimes e_8$	{1456789, 145789, 14789, 15678, 1578, 178, 345689, 34589, 3489, 3568, 358, 38}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{6}e^{13}, \frac{2}{9}\sqrt{6}e^{24}$	$(0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{5}{9}, \frac{5}{9}, 0, -\frac{1}{9}, -\frac{1}{9})$ $+ \frac{4}{9}\sqrt{3}e^5 \otimes e_8 + \frac{4}{9}\sqrt{3}e^6 \otimes e_9$	{1234567, 123579, 12789, 13459, 1356, 1489, 168, 34789, 3678, 567}
93:3	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{3749}e^{12}, \frac{4}{719}\sqrt{9454}e^{13}, \frac{2}{719}\sqrt{22657}e^{24}$	$(\frac{185}{719}, -\frac{82}{719}, \frac{127}{719}, -\frac{59}{719}, -\frac{199}{719}, \frac{80}{719}, \frac{103}{719}, \frac{312}{719}, -\frac{141}{719})$ $+ \frac{12}{719}\sqrt{1630}e^1 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^3 \otimes e_5$	{1234, 12346, 124568, 12458, 1367, 137, 15678, 1578, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:3	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{429}e^{12}, \frac{1}{64}\sqrt{462}e^{13}, \frac{1}{64}\sqrt{462}e^{24}$	$(\frac{31}{128}, -\frac{7}{32}, -\frac{35}{128}, \frac{3}{16}, \frac{69}{128}, \frac{5}{64}, \frac{3}{128}, -\frac{1}{32}, -\frac{1}{32})$ $+ \frac{1}{64}\sqrt{1947}e^1 \otimes e_3 + \frac{1}{64}\sqrt{1947}e^5 \otimes e_7$	{124569, 12459, 125, 1256, 1467, 147, 1679, 179, 234679, 23479, 2367, 237, 345, 3456, 3569, 359}
93:3	$0, 0, 0, 0, 0, 0, \frac{6}{1889}\sqrt{4687}e^{12}, \frac{3}{1889}\sqrt{47902}e^{13}, \frac{6}{1889}\sqrt{4429}e^{24}$	$(\frac{61}{1889}, -\frac{272}{1889}, \frac{176}{1889}, -\frac{54}{1889}, \frac{624}{1889}, \frac{152}{1889}, -\frac{211}{1889}, \frac{237}{1889}, -\frac{326}{1889})$ $+ \frac{12}{1889}\sqrt{2537}e^5 \otimes e_8 + \frac{18}{1889}\sqrt{1634}e^1 \otimes e_9 + \frac{3}{1889}\sqrt{49966}e^3 \otimes e_7$	{12345, 123456, 1678, 178, 25679, 2579, 34689, 3489}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{283}\sqrt{10815}e^{12}, \frac{1}{283}\sqrt{105}e^{13}, \frac{1}{283}\sqrt{105}e^{14} + \frac{1}{283}\sqrt{10815}e^{23}$	$(\frac{101}{566}, \frac{24}{283}, -\frac{28}{283}, -\frac{109}{566}, \frac{101}{283}, -\frac{81}{283}, \frac{149}{566}, \frac{45}{566}, -\frac{4}{283})$ $+ \frac{4}{283}\sqrt{1365}e^2 \otimes e_6 + \frac{6}{283}\sqrt{455}e^1 \otimes e_4 + \frac{6}{283}\sqrt{455}e^5 \otimes e_9$	{12358, 1567, 23457, 4568}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{304}\sqrt{6279}e^{12}, \frac{1}{304}\sqrt{6279}e^{13}, \frac{7}{152}\sqrt{138}e^{14} + \frac{1}{304}\sqrt{4186}e^{23}$	$(\frac{13}{76}, \frac{1}{608}, \frac{1}{608}, -\frac{51}{304}, \frac{81}{152}, -\frac{109}{304}, \frac{105}{608}, \frac{105}{608}, \frac{1}{304})$ $+ \frac{1}{152}\sqrt{11431}e^1 \otimes e_6 + \frac{1}{304}\sqrt{41538}e^5 \otimes e_9$	{12345, 1289, 14578, 235678, 24679, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:4	$0, 0, 0, 0, 0, \frac{2}{411}\sqrt{7705}e^{12}, \frac{4}{411}\sqrt{402}e^{13},$ $\frac{2}{411}\sqrt{4891}e^{14} + \frac{2}{411}\sqrt{7705}e^{23}$	$(-\frac{31}{411}, -\frac{13}{411}, \frac{30}{137}, \frac{36}{137}, -\frac{49}{137}, \frac{35}{411}, -\frac{44}{411}, \frac{59}{411}, \frac{77}{411})$ $+ \frac{2}{411}\sqrt{12194}e^2 \otimes e_5 + \frac{2}{411}\sqrt{12998}e^3 \otimes e_7$	{123, 1236, 15678, 1578, 2679, 279, 35689, 3589}
93:4	$0, 0, 0, 0, 0, \frac{1}{283}\sqrt{105}e^{12}, \frac{1}{283}\sqrt{105}e^{13},$ $\frac{1}{283}\sqrt{10815}e^{14} + \frac{1}{283}\sqrt{10815}e^{23}$	$(-\frac{55}{566}, \frac{50}{283}, -\frac{28}{283}, \frac{99}{566}, \frac{127}{283}, -\frac{55}{283}, \frac{45}{566}, -\frac{111}{566}, \frac{22}{283})$ $+ \frac{4}{283}\sqrt{1365}e^5 \otimes e_9 + \frac{6}{283}\sqrt{455}e^2 \otimes e_6 + \frac{6}{283}\sqrt{455}e^4 \otimes e_8$	{13689, 1456, 34679, 5678}
93:4	$0, 0, 0, 0, 0, \frac{2}{383}\sqrt{10974}e^{12}, \frac{6}{383}\sqrt{434}e^{13},$ $\frac{2}{383}\sqrt{5115}e^{14} + \frac{6}{383}\sqrt{434}e^{23}$	$(-\frac{68}{383}, \frac{71}{383}, -\frac{47}{383}, \frac{92}{383}, \frac{189}{383}, \frac{37}{383}, \frac{3}{383}, -\frac{115}{383}, \frac{24}{383})$ $+ \frac{2}{383}\sqrt{18042}e^2 \otimes e_8 + \frac{4}{383}\sqrt{3534}e^5 \otimes e_7$	{1235, 12356, 1678, 178, 2679, 279, 35689, 3589}
93:4	$0, 0, 0, 0, 0, \frac{6}{203}\sqrt{119}e^{12}, \frac{2}{203}\sqrt{714}e^{13}, \frac{6}{203}\sqrt{119}e^{14} + \frac{1}{203}\sqrt{3315}e^{23}$	$(-\frac{16}{203}, \frac{5}{203}, \frac{19}{203}, \frac{40}{203}, \frac{54}{203}, -\frac{67}{203}, -\frac{11}{203}, \frac{3}{203}, \frac{24}{203})$ $+ \frac{1}{203}\sqrt{4029}e^5 \otimes e_8 + \frac{1}{203}\sqrt{8313}e^1 \otimes e_6 + \frac{9}{203}\sqrt{85}e^4 \otimes e_7$	{1248, 1789, 2567, 4569}
93:4	$0, 0, 0, 0, 0, \frac{1}{628}\sqrt{699}e^{12}, \frac{1}{628}\sqrt{699}e^{13},$ $\frac{1}{628}\sqrt{53590}e^{14} + \frac{1}{314}\sqrt{13281}e^{23}$	$(-\frac{61}{628}, \frac{221}{1256}, -\frac{123}{1256}, \frac{55}{314}, \frac{141}{314}, -\frac{123}{628}, \frac{99}{1256}, -\frac{245}{1256}, \frac{49}{628})$ $+ \frac{1}{314}\sqrt{20038}e^2 \otimes e_8 + \frac{1}{314}\sqrt{20271}e^4 \otimes e_6 + \frac{1}{628}\sqrt{107646}e^5 \otimes e_9$	{12679, 13689, 2356, 5678}
93:4	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{77}e^{12}, \frac{2}{63}\sqrt{77}e^{13}, \frac{5}{63}\sqrt{11}e^{14} + \frac{2}{63}\sqrt{77}e^{23}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{17}{63}, \frac{10}{63}, -\frac{1}{63}, -\frac{8}{63}, -\frac{8}{63}, \frac{2}{21})$ $+ \frac{11}{63}e^5 \otimes e_6 + \frac{1}{63}\sqrt{583}e^2 \otimes e_8 - \frac{1}{63}\sqrt{583}e^3 \otimes e_7$	{1235, 1236, 1578, 1678, 2579, 2679}
93:4	$0, 0, 0, 0, 0, \frac{2}{63}\sqrt{77}e^{12}, \frac{2}{63}\sqrt{77}e^{13}, \frac{5}{63}\sqrt{11}e^{14} + \frac{2}{63}\sqrt{77}e^{23}$	$(-\frac{11}{63}, \frac{1}{21}, \frac{1}{21}, \frac{17}{63}, \frac{10}{63}, -\frac{1}{63}, -\frac{8}{63}, -\frac{8}{63}, \frac{2}{21})$ $+ \frac{11}{63}e^5 \otimes e_6 + \frac{1}{63}\sqrt{583}e^2 \otimes e_8 + \frac{1}{63}\sqrt{583}e^3 \otimes e_7$	{1235, 1236, 1578, 1678, 2579, 2679}
93:4	$0, 0, 0, 0, 0, \frac{2}{411}\sqrt{7705}e^{12}, \frac{2}{411}\sqrt{7705}e^{13},$ $\frac{2}{411}\sqrt{4891}e^{14} + \frac{4}{411}\sqrt{402}e^{23}$	$(\frac{20}{137}, \frac{30}{137}, -\frac{104}{411}, -\frac{74}{411}, \frac{35}{411}, \frac{35}{411}, \frac{50}{411}, -\frac{44}{137}, -\frac{41}{411})$ $+ \frac{2}{411}\sqrt{12194}e^1 \otimes e_4 + \frac{2}{411}\sqrt{12998}e^2 \otimes e_8$	{123, 1235, 12356, 15678, 1578, 178}
93:4	$0, 0, 0, 0, 0, \frac{1}{59}\sqrt{451}e^{12}, \frac{1}{59}\sqrt{451}e^{13}, \frac{1}{59}\sqrt{451}e^{14} + \frac{1}{59}\sqrt{451}e^{23}$	$(\frac{33}{118}, -\frac{4}{59}, -\frac{4}{59}, -\frac{49}{118}, \frac{33}{59}, \frac{7}{59}, \frac{25}{118}, \frac{25}{118}, -\frac{8}{59})$ $+ \frac{2}{59}\sqrt{533}e^1 \otimes e_4 + \frac{2}{59}\sqrt{533}e^5 \otimes e_9$	{12689, 1289, 24679, 2479}
93:4	$0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{12}, \frac{1}{115}\sqrt{1767}e^{13}, \frac{3}{115}\sqrt{133}e^{14} + \frac{1}{115}\sqrt{4161}e^{23}$	$(\frac{11}{230}, \frac{16}{115}, -\frac{2}{23}, \frac{1}{230}, \frac{63}{115}, -\frac{41}{115}, \frac{43}{230}, -\frac{9}{230}, \frac{6}{115})$ $+ \frac{2}{115}\sqrt{1482}e^2 \otimes e_6 + \frac{1}{115}\sqrt{1482}e^5 \otimes e_9$	{123458, 129, 136789, 14567, 2357, 24789, 3469, 568}
93:4	$0, 0, 0, 0, 0, \frac{1}{404}\sqrt{56342}e^{12}, \frac{1}{202}\sqrt{5713}e^{13},$ $\frac{1}{404}\sqrt{16351}e^{14} + \frac{1}{404}\sqrt{16351}e^{23}$	$(\frac{149}{808}, -\frac{133}{808}, \frac{37}{808}, -\frac{245}{808}, \frac{205}{404}, \frac{35}{404}, \frac{2}{101}, \frac{93}{404}, -\frac{12}{101})$ $+ \frac{1}{202}\sqrt{16745}e^5 \otimes e_7 + \frac{1}{404}\sqrt{78406}e^1 \otimes e_4$	{12568, 1258, 1367, 137, 2467, 247, 34568, 3458}
93:4	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{77}e^{12}, \frac{4}{115}\sqrt{77}e^{13}, \frac{2}{23}\sqrt{11}e^{14} + \frac{4}{115}\sqrt{77}e^{23}$	$(-\frac{22}{115}, \frac{6}{115}, \frac{6}{115}, \frac{34}{115}, \frac{9}{115}, \frac{9}{115}, -\frac{16}{115}, -\frac{16}{115}, \frac{12}{115})$ $+ \frac{2}{115}\sqrt{583}e^2 \otimes e_8 - \frac{2}{115}\sqrt{583}e^3 \otimes e_7$	{123, 1235, 12356, 15678, 1578, 178, 25679, 2579, 279}
93:4	$0, 0, 0, 0, 0, \frac{4}{115}\sqrt{77}e^{12}, \frac{4}{115}\sqrt{77}e^{13}, \frac{2}{23}\sqrt{11}e^{14} + \frac{4}{115}\sqrt{77}e^{23}$	$(-\frac{22}{115}, \frac{6}{115}, \frac{6}{115}, \frac{34}{115}, \frac{9}{115}, \frac{9}{115}, -\frac{16}{115}, -\frac{16}{115}, \frac{12}{115})$ $+ \frac{2}{115}\sqrt{583}e^2 \otimes e_8 + \frac{2}{115}\sqrt{583}e^3 \otimes e_7$	{123, 1235, 12356, 15678, 1578, 178, 25679, 2579, 279}
93:4	$0, 0, 0, 0, 0, \frac{1}{118}\sqrt{2679}e^{12}, \frac{1}{118}\sqrt{2679}e^{13}, \frac{1}{59}\sqrt{47}e^{14} + \frac{1}{59}\sqrt{47}e^{23}$	$(\frac{3}{59}, \frac{69}{236}, -\frac{37}{236}, \frac{5}{59}, -\frac{41}{118}, \frac{6}{59}, \frac{81}{236}, -\frac{25}{236}, \frac{8}{59})$ $+ \frac{1}{118}\sqrt{4982}e^1 \otimes e_5 + \frac{1}{118}\sqrt{4982}e^2 \otimes e_8$	{1234, 12346, 14678, 1478, 245679, 24579, 345689, 34589}
93:4	$0, 0, 0, 0, 0, \frac{1}{114}\sqrt{3154}e^{12}, \frac{1}{114}\sqrt{1079}e^{13},$ $\frac{1}{114}\sqrt{3154}e^{14} + \frac{1}{114}\sqrt{1079}e^{23}$	$(-\frac{13}{76}, -\frac{1}{228}, \frac{25}{114}, \frac{22}{57}, \frac{21}{38}, -\frac{13}{38}, -\frac{10}{57}, \frac{11}{228}, \frac{49}{228})$ $+ \frac{1}{114}\sqrt{8466}e^4 \otimes e_6 + \frac{1}{114}\sqrt{8466}e^5 \otimes e_7$	{1235689, 1245, 13478, 1679, 23479, 2678, 356, 4589}
93:4	$0, 0, 0, 0, 0, \frac{2}{95}\sqrt{627}e^{12}, \frac{2}{95}\sqrt{627}e^{13}, \frac{2}{95}\sqrt{231}e^{14} + \frac{2}{95}\sqrt{231}e^{23}$	$(\frac{31}{95}, -\frac{2}{95}, -\frac{2}{95}, -\frac{7}{19}, \frac{43}{95}, -\frac{23}{95}, \frac{29}{95}, \frac{29}{95}, -\frac{4}{95})$ $+ \frac{4}{95}\sqrt{429}e^1 \otimes e_4 + \frac{66}{95}e^5 \otimes e_6$	{1258, 1268, 2457, 2467}
93:4	$0, 0, 0, 0, 0, \frac{7}{152}\sqrt{138}e^{12}, \frac{1}{304}\sqrt{6279}e^{13},$ $\frac{1}{304}\sqrt{4186}e^{14} + \frac{1}{304}\sqrt{6279}e^{23}$	$(-\frac{167}{608}, \frac{143}{608}, -\frac{3}{152}, \frac{149}{304}, \frac{33}{304}, \frac{33}{304}, -\frac{3}{76}, -\frac{179}{608}, \frac{131}{608})$ $+ \frac{1}{152}\sqrt{11431}e^2 \otimes e_8 + \frac{1}{304}\sqrt{41538}e^4 \otimes e_7$	{1234, 12345, 123456, 345689, 34589, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{102}e^{12}, \frac{1}{25}\sqrt{102}e^{13}, \frac{1}{25}\sqrt{34}e^{14} + \frac{1}{25}\sqrt{102}e^{23}$	$(-\frac{4}{25}, \frac{2}{5}, -\frac{3}{25}, \frac{11}{25}, -\frac{6}{25}, \frac{3}{25}, \frac{6}{25}, -\frac{7}{25}, \frac{7}{25})$ $+\frac{1}{25}\sqrt{442}e^2 \otimes e_8 + \frac{3}{25}\sqrt{34}e^4 \otimes e_5$	{1234, 12346, 14678, 1478, 24679, 2479, 34689, 3489}
93:4	$0, 0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{12}, \frac{3}{115}\sqrt{133}e^{13}, \frac{1}{115}\sqrt{1767}e^{14} + \frac{1}{115}\sqrt{4161}e^{23}$	$(\frac{11}{230}, \frac{16}{115}, \frac{16}{115}, \frac{53}{230}, -\frac{41}{115}, -\frac{41}{115}, \frac{43}{230}, \frac{43}{230}, \frac{32}{115})$ $+\frac{2}{115}\sqrt{1482}e^2 \otimes e_5 + \frac{2}{115}\sqrt{1482}e^3 \otimes e_6$	{123, 124689, 15678, 23478, 2679, 456}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{3634}e^{12}, \frac{2}{123}\sqrt{395}e^{13}, \frac{2}{123}\sqrt{395}e^{14} + \frac{2}{123}\sqrt{395}e^{23}$	$(-\frac{5}{41}, -\frac{20}{123}, \frac{31}{123}, \frac{26}{123}, \frac{1}{123}, \frac{7}{41}, -\frac{35}{123}, \frac{16}{123}, \frac{11}{123})$ $+\frac{2}{123}\sqrt{8058}e^5 \otimes e_7$	{12345689, 1234589, 125, 1256, 13678, 1378, 14679, 1479, 23679, 2379, 24678, 2478, 345, 3456, 5689, 589}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{411}\sqrt{7705}e^{12}, \frac{4}{411}\sqrt{402}e^{13}, \frac{2}{411}\sqrt{7705}e^{14} + \frac{2}{411}\sqrt{4891}e^{23}$	$(-\frac{25}{411}, -\frac{7}{411}, \frac{28}{137}, \frac{34}{137}, -\frac{53}{137}, \frac{35}{137}, -\frac{32}{411}, \frac{59}{411}, \frac{77}{411})$ $+\frac{2}{411}\sqrt{12194}e^4 \otimes e_7 + \frac{2}{411}\sqrt{12998}e^1 \otimes e_5$	{12468, 1248, 16789, 1789, 2567, 257, 4569, 459}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{1830}e^{12}, \frac{2}{127}\sqrt{1830}e^{13}, \frac{2}{127}\sqrt{1403}e^{14} + \frac{2}{127}\sqrt{1830}e^{23}$	$(-\frac{16}{127}, \frac{67}{127}, -\frac{39}{127}, \frac{44}{127}, \frac{21}{127}, \frac{21}{127}, \frac{51}{127}, -\frac{55}{127}, \frac{28}{127})$ $+\frac{2}{127}\sqrt{6466}e^2 \otimes e_8$	{123, 1235, 12356, 15678, 1578, 178, 25679, 2579, 279, 35689, 3589, 389}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{299}\sqrt{515}e^{12}, \frac{2}{299}\sqrt{3090}e^{13}, \frac{2}{299}\sqrt{2987}e^{14} + \frac{6}{299}\sqrt{515}e^{23}$	$(-\frac{1}{23}, \frac{7}{23}, -\frac{42}{299}, \frac{62}{299}, \frac{151}{299}, -\frac{5}{23}, \frac{6}{23}, -\frac{55}{299}, \frac{49}{299})$ $+\frac{2}{299}\sqrt{12154}e^5 \otimes e_8 + \frac{4}{299}\sqrt{3811}e^2 \otimes e_6$	{1235, 12489, 1345679, 1678, 23478, 2579, 3689, 456}
93:4	$0, 0, 0, 0, 0, 0, \frac{10}{31}e^{12}, \frac{10}{31}e^{13}, \frac{10}{31}e^{14} + \frac{10}{31}e^{23}$	$(\frac{3}{31}, \frac{4}{31}, \frac{4}{31}, \frac{5}{31}, 1, -\frac{19}{31}, \frac{7}{31}, \frac{7}{31}, \frac{8}{31})$ $+\frac{50}{31}e^5 \otimes e_6$	{12345, 12346, 12589, 12689, 14578, 14678, 23578, 23678, 24579, 24679, 5, 6}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{211}\sqrt{930}e^{12}, \frac{2}{211}\sqrt{930}e^{13}, \frac{4}{211}\sqrt{155}e^{14} + \frac{4}{211}\sqrt{155}e^{23}$	$(\frac{9}{211}, \frac{39}{211}, -\frac{32}{211}, -\frac{2}{211}, \frac{69}{211}, -\frac{53}{211}, \frac{48}{211}, -\frac{23}{211}, \frac{7}{211})$ $+\frac{2}{211}\sqrt{1581}e^5 \otimes e_9 + \frac{2}{211}\sqrt{2201}e^1 \otimes e_6 + \frac{2}{211}\sqrt{2201}e^2 \otimes e_8$	{12345, 14578, 24679, 34689}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{112}\sqrt{1551}e^{12}, \frac{1}{112}\sqrt{1551}e^{13}, \frac{11}{112}\sqrt{6}e^{14} + \frac{3}{56}\sqrt{22}e^{23}$	$(\frac{13}{112}, \frac{39}{224}, -\frac{53}{224}, -\frac{5}{28}, \frac{13}{56}, \frac{9}{112}, \frac{65}{224}, -\frac{27}{224}, -\frac{1}{16})$ $+\frac{1}{112}\sqrt{1122}e^5 \otimes e_9 + \frac{1}{28}\sqrt{165}e^1 \otimes e_4 + \frac{1}{56}\sqrt{759}e^2 \otimes e_8$	{1235, 12356, 15678, 1578}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{203}\sqrt{119}e^{12}, \frac{2}{203}\sqrt{714}e^{13}, \frac{1}{203}\sqrt{3315}e^{14} + \frac{6}{203}\sqrt{119}e^{23}$	$(-\frac{23}{203}, -\frac{2}{203}, \frac{26}{203}, \frac{47}{203}, \frac{54}{203}, -\frac{53}{203}, -\frac{25}{203}, \frac{3}{203}, \frac{24}{203})$ $+\frac{1}{203}\sqrt{4029}e^5 \otimes e_8 + \frac{1}{203}\sqrt{8313}e^3 \otimes e_7 + \frac{9}{203}\sqrt{85}e^2 \otimes e_6$	{1235, 1678, 2579, 3689}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{299}\sqrt{515}e^{12}, \frac{2}{299}\sqrt{3090}e^{13}, \frac{6}{299}\sqrt{515}e^{14} + \frac{2}{299}\sqrt{2987}e^{23}$	$(-\frac{87}{299}, \frac{17}{299}, \frac{32}{299}, \frac{136}{299}, \frac{151}{299}, \frac{33}{299}, -\frac{70}{299}, -\frac{55}{299}, \frac{49}{299})$ $+\frac{2}{299}\sqrt{12154}e^5 \otimes e_8 + \frac{4}{299}\sqrt{3811}e^4 \otimes e_7$	{12468, 1248, 16789, 1789, 2567, 257, 4569, 459}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{115}\sqrt{4161}e^{12}, \frac{3}{115}\sqrt{133}e^{13}, \frac{1}{115}\sqrt{1767}e^{14} + \frac{3}{115}\sqrt{133}e^{23}$	$(\frac{63}{230}, \frac{16}{115}, -\frac{2}{23}, -\frac{51}{230}, -\frac{41}{115}, \frac{11}{115}, \frac{19}{46}, \frac{43}{230}, \frac{6}{115})$ $+\frac{2}{115}\sqrt{1482}e^1 \otimes e_4 + \frac{2}{115}\sqrt{1482}e^2 \otimes e_5$	{123, 1236, 15678, 1578, 234678, 23478, 45, 456}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{383}\sqrt{10974}e^{12}, \frac{6}{383}\sqrt{434}e^{13}, \frac{6}{383}\sqrt{434}e^{14} + \frac{2}{383}\sqrt{5115}e^{23}$	$(\frac{29}{383}, -\frac{26}{383}, \frac{50}{383}, -\frac{5}{383}, \frac{189}{383}, -\frac{157}{383}, \frac{3}{383}, \frac{79}{383}, \frac{24}{383})$ $+\frac{2}{383}\sqrt{18042}e^1 \otimes e_6 + \frac{4}{383}\sqrt{3534}e^5 \otimes e_7$	{12359, 12458, 1347, 1789, 2346789, 267, 3568, 4569}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{2641}\sqrt{229890}e^{12}, \frac{2}{2641}\sqrt{54805}e^{13}, \frac{30}{2641}\sqrt{97}e^{14} + \frac{6}{2641}\sqrt{24735}e^{23}$	$(-\frac{17}{139}, \frac{294}{2641}, -\frac{353}{2641}, \frac{264}{2641}, \frac{941}{2641}, \frac{911}{2641}, -\frac{29}{2641}, -\frac{676}{2641}, -\frac{59}{2641})$ $+\frac{24}{2641}\sqrt{3395}e^2 \otimes e_8 + \frac{4}{139}\sqrt{970}e^5 \otimes e_7 + \frac{4}{2641}\sqrt{83905}e^6 \otimes e_9$	{12356, 1678, 279, 3589}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{12}, \frac{1}{31}\sqrt{627}e^{13}, \frac{1}{31}\sqrt{231}e^{14} + \frac{1}{31}\sqrt{231}e^{23}$	$(\frac{1}{2}, -\frac{1}{31}, -\frac{1}{31}, -\frac{35}{62}, \frac{5}{31}, \frac{5}{31}, \frac{29}{62}, \frac{29}{62}, -\frac{2}{31})$ $+\frac{2}{31}\sqrt{429}e^1 \otimes e_4$	{12568, 1258, 128, 24567, 2457, 247}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{835}\sqrt{1807}e^{12}, \frac{4}{835}\sqrt{417}e^{13}, \frac{22}{835}\sqrt{139}e^{14} + \frac{6}{835}\sqrt{1807}e^{23}$	$(-\frac{157}{835}, \frac{17}{167}, -\frac{36}{835}, \frac{206}{835}, \frac{327}{835}, \frac{69}{835}, -\frac{72}{835}, -\frac{193}{835}, \frac{49}{835})$ $+\frac{2}{167}\sqrt{1390}e^2 \otimes e_8 + \frac{2}{835}\sqrt{35862}e^4 \otimes e_7 + \frac{2}{835}\sqrt{35862}e^5 \otimes e_9$	{136789, 13789, 23567, 2357}
93:4	$0, 0, 0, 0, 0, 0, \frac{2}{1247}\sqrt{68138}e^{12}, \frac{8}{1247}\sqrt{471}e^{13}, \frac{2}{1247}\sqrt{23707}e^{14} + \frac{8}{1247}\sqrt{471}e^{23}$	$(\frac{144}{1247}, -\frac{7}{1247}, -\frac{19}{1247}, -\frac{170}{1247}, \frac{451}{1247}, -\frac{321}{1247}, \frac{137}{1247}, \frac{125}{1247}, -\frac{26}{1247})$ $+\frac{2}{1247}\sqrt{58718}e^5 \otimes e_7 + \frac{2}{1247}\sqrt{62486}e^1 \otimes e_4 + \frac{2}{1247}\sqrt{62486}e^2 \otimes e_6$	{1235, 1678, 23478, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{12}, \frac{1}{31}\sqrt{231}e^{13}, \frac{1}{31}\sqrt{231}e^{14} + \frac{1}{31}\sqrt{627}e^{23}$	$(\frac{5}{62}, \frac{12}{31}, -\frac{1}{31}, \frac{17}{62}, -\frac{21}{31}, \frac{5}{31}, \frac{29}{62}, \frac{3}{62}, \frac{11}{31})$ $+ \frac{2}{31}\sqrt{429}e^2 \otimes e_5$	{12368, 1238, 12469, 1249, 13456789, 1345789, 1567, 157, 23467, 2347, 26789, 2789, 3569, 359, 4568, 458}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{451}e^{12}, \frac{1}{59}\sqrt{451}e^{13}, \frac{1}{59}\sqrt{451}e^{14} + \frac{1}{59}\sqrt{451}e^{23}$	$(-\frac{19}{118}, \frac{22}{59}, -\frac{4}{59}, \frac{55}{118}, -\frac{19}{59}, \frac{7}{59}, \frac{25}{118}, -\frac{27}{118}, \frac{18}{59})$ $+ \frac{2}{59}\sqrt{533}e^2 \otimes e_5 + \frac{2}{59}\sqrt{533}e^4 \otimes e_8$	{1234, 12346, 12689, 1289, 23678, 2378, 24679, 2479}
93:4	$0, 0, 0, 0, 0, 0, \frac{84}{311}\sqrt{2}e^{12}, \frac{84}{311}\sqrt{2}e^{13}, \frac{14}{311}\sqrt{31}e^{14} + \frac{14}{311}\sqrt{31}e^{23}$	$(\frac{28}{311}, -\frac{21}{311}, -\frac{21}{311}, -\frac{70}{311}, \frac{105}{311}, \frac{105}{311}, \frac{7}{311}, \frac{7}{311}, -\frac{42}{311})$ $+ \frac{14}{311}\sqrt{85}e^5 \otimes e_7 + \frac{14}{311}\sqrt{85}e^6 \otimes e_8 + \frac{154}{311}e^1 \otimes e_4$	{1258, 2467}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{239}\sqrt{7705}e^{12}, \frac{1}{239}\sqrt{7705}e^{13}, \frac{1}{239}\sqrt{4891}e^{14} + \frac{2}{239}\sqrt{402}e^{23}$	$(\frac{30}{239}, \frac{45}{239}, -\frac{52}{239}, -\frac{37}{239}, \frac{51}{239}, -\frac{16}{239}, \frac{75}{239}, -\frac{22}{239}, -\frac{7}{239})$ $+ \frac{1}{239}\sqrt{12194}e^1 \otimes e_4 + \frac{1}{239}\sqrt{12998}e^2 \otimes e_8 + \frac{67}{239}e^5 \otimes e_6$	{1235, 1236, 1578, 1678}
93:4	$0, 0, 0, 0, 0, 0, \frac{52}{3005}\sqrt{471}e^{12}, \frac{78}{3005}\sqrt{202}e^{13}, \frac{494}{3005}\sqrt{3}e^{14} + \frac{78}{3005}\sqrt{22}e^{23}$	$(\frac{468}{3005}, \frac{377}{3005}, -\frac{91}{601}, -\frac{546}{3005}, \frac{1027}{3005}, -\frac{637}{3005}, \frac{169}{601}, \frac{13}{3005}, -\frac{78}{3005})$ $+ \frac{234}{3005}\sqrt{30}e^5 \otimes e_8 + \frac{26}{3005}\sqrt{2562}e^2 \otimes e_6 + \frac{52}{3005}\sqrt{843}e^1 \otimes e_4$	{1235, 1678, 23478, 456}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{114}\sqrt{3154}e^{12}, \frac{1}{114}\sqrt{3154}e^{13}, \frac{1}{114}\sqrt{1079}e^{14} + \frac{1}{114}\sqrt{1079}e^{23}$	$(-\frac{13}{76}, -\frac{1}{228}, -\frac{1}{228}, \frac{37}{228}, \frac{21}{38}, \frac{21}{38}, -\frac{10}{57}, -\frac{10}{57}, -\frac{1}{114})$ $+ \frac{1}{114}\sqrt{8466}e^5 \otimes e_7 + \frac{1}{114}\sqrt{8466}e^6 \otimes e_8$	{1234569, 1258, 14789, 23789, 2467, 569}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{3041}\sqrt{20585}e^{12}, \frac{4}{3041}\sqrt{690}e^{13}, \frac{2}{3041}\sqrt{306705}e^{14} + \frac{6}{3041}\sqrt{6555}e^{23}$	$(-\frac{155}{3041}, -\frac{149}{3041}, \frac{380}{3041}, \frac{386}{3041}, \frac{921}{3041}, -\frac{845}{3041}, -\frac{304}{3041}, \frac{225}{3041}, \frac{231}{3041})$ $+ \frac{16}{3041}\sqrt{3795}e^5 \otimes e_9 + \frac{46}{3041}\sqrt{690}e^4 \otimes e_7 + \frac{6}{3041}\sqrt{40710}e^1 \otimes e_6$	{12458, 1789, 2567, 469}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{3041}\sqrt{20585}e^{12}, \frac{4}{3041}\sqrt{690}e^{13}, \frac{6}{3041}\sqrt{6555}e^{14} + \frac{2}{3041}\sqrt{306705}e^{23}$	$(-\frac{157}{3041}, -\frac{151}{3041}, \frac{382}{3041}, \frac{388}{3041}, \frac{921}{3041}, -\frac{841}{3041}, -\frac{308}{3041}, \frac{225}{3041}, \frac{231}{3041})$ $+ \frac{16}{3041}\sqrt{3795}e^5 \otimes e_9 + \frac{46}{3041}\sqrt{690}e^2 \otimes e_6 + \frac{6}{3041}\sqrt{40710}e^3 \otimes e_7$	{1235, 15678, 279, 3689}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{42}e^{12}, \frac{2}{7}e^{13}, \frac{1}{21}\sqrt{42}e^{14} + \frac{1}{21}\sqrt{42}e^{23}$	$(-\frac{5}{42}, \frac{1}{21}, \frac{1}{21}, \frac{3}{14}, \frac{8}{21}, -\frac{5}{21}, -\frac{1}{14}, -\frac{1}{14}, \frac{2}{21})$ $+ \frac{1}{21}\sqrt{78}e^2 \otimes e_6 + \frac{1}{21}\sqrt{78}e^4 \otimes e_7 + \frac{1}{21}\sqrt{78}e^5 \otimes e_9$	{123458, 136789, 2357, 3469}
93:4	$0, 0, 0, 0, 0, 0, \frac{3}{184}\sqrt{790}e^{12}, \frac{1}{92}\sqrt{553}e^{13}, \frac{1}{184}\sqrt{237}e^{14} + \frac{1}{184}\sqrt{237}e^{23}$	$(\frac{53}{368}, -\frac{57}{368}, \frac{5}{368}, -\frac{105}{368}, \frac{77}{184}, \frac{53}{184}, -\frac{1}{92}, \frac{29}{184}, -\frac{13}{92})$ $+ \frac{1}{184}\sqrt{10902}e^1 \otimes e_4 + \frac{1}{92}\sqrt{1501}e^6 \otimes e_9 + \frac{1}{92}\sqrt{2449}e^5 \otimes e_7$	{12568, 1367, 2467, 34568}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{12}, \frac{1}{31}\sqrt{231}e^{13}, \frac{1}{31}\sqrt{627}e^{14} + \frac{1}{31}\sqrt{231}e^{23}$	$(-\frac{21}{62}, -\frac{1}{31}, \frac{12}{31}, \frac{43}{62}, \frac{5}{31}, \frac{5}{31}, -\frac{23}{62}, \frac{3}{62}, \frac{11}{31})$ $+ \frac{2}{31}\sqrt{429}e^4 \otimes e_7$	{124, 1245, 12456, 15679, 1579, 179, 25678, 2578, 278, 45689, 4589, 489}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{94}\sqrt{1830}e^{12}, \frac{1}{94}\sqrt{1830}e^{13}, \frac{1}{94}\sqrt{1403}e^{14} + \frac{1}{94}\sqrt{1830}e^{23}$	$(-\frac{4}{47}, \frac{67}{188}, -\frac{39}{188}, \frac{11}{47}, \frac{41}{94}, -\frac{10}{47}, \frac{51}{188}, -\frac{55}{188}, \frac{7}{47})$ $+ \frac{1}{94}\sqrt{6466}e^2 \otimes e_8 + \frac{61}{94}e^5 \otimes e_6$	{1235, 1236, 1578, 1678, 2579, 2679, 3589, 3689}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{404}\sqrt{56342}e^{12}, \frac{1}{404}\sqrt{16351}e^{13}, \frac{1}{404}\sqrt{16351}e^{14} + \frac{1}{202}\sqrt{5713}e^{23}$	$(-\frac{25}{404}, \frac{33}{404}, \frac{37}{808}, \frac{153}{808}, \frac{205}{404}, -\frac{41}{101}, \frac{2}{101}, -\frac{13}{808}, \frac{103}{808})$ $+ \frac{1}{202}\sqrt{16745}e^5 \otimes e_7 + \frac{1}{404}\sqrt{78406}e^2 \otimes e_6$	{12358, 12459, 1346789, 167, 2347, 2789, 3569, 4568}
93:4	$0, 0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{12}, \frac{1}{115}\sqrt{1767}e^{13}, \frac{1}{115}\sqrt{4161}e^{14} + \frac{3}{115}\sqrt{133}e^{23}$	$(-\frac{41}{230}, -\frac{2}{23}, \frac{16}{115}, \frac{53}{230}, \frac{63}{115}, \frac{11}{115}, -\frac{61}{230}, -\frac{9}{230}, \frac{6}{115})$ $+ \frac{2}{115}\sqrt{1482}e^4 \otimes e_7 + \frac{2}{115}\sqrt{1482}e^5 \otimes e_9$	{1234568, 123458, 136789, 13789, 23567, 2357, 3469, 349}
93:4	$0, 0, 0, 0, 0, 0, \frac{1}{404}\sqrt{16351}e^{12}, \frac{1}{404}\sqrt{16351}e^{13}, \frac{1}{404}\sqrt{56342}e^{14} + \frac{1}{202}\sqrt{5713}e^{23}$	$(-\frac{25}{404}, \frac{37}{808}, \frac{37}{808}, \frac{31}{202}, \frac{117}{202}, -\frac{135}{404}, -\frac{13}{808}, -\frac{13}{808}, \frac{37}{404})$ $+ \frac{1}{202}\sqrt{16745}e^4 \otimes e_6 + \frac{1}{404}\sqrt{78406}e^5 \otimes e_9$	{1234578, 12679, 145, 2356, 2489, 5678}
93:4	$0, 0, 0, 0, 0, 0, \frac{6}{299}\sqrt{515}e^{12}, \frac{2}{299}\sqrt{2987}e^{13}, \frac{2}{299}\sqrt{3090}e^{14} + \frac{6}{299}\sqrt{515}e^{23}$	$(-\frac{1}{23}, \frac{7}{23}, \frac{17}{299}, \frac{121}{299}, -\frac{5}{13}, -\frac{85}{299}, \frac{6}{23}, \frac{4}{299}, \frac{108}{299})$ $+ \frac{2}{299}\sqrt{12154}e^4 \otimes e_6 + \frac{4}{299}\sqrt{3811}e^2 \otimes e_5$	{12348, 1269, 1356789, 1457, 2367, 24789, 3459, 568}
93:4	$0, 0, 0, 0, 0, 0, \frac{3}{184}\sqrt{790}e^{12}, \frac{1}{184}\sqrt{237}e^{13}, \frac{1}{184}\sqrt{237}e^{14} + \frac{1}{92}\sqrt{553}e^{23}$	$(-\frac{27}{184}, \frac{25}{184}, \frac{5}{368}, \frac{109}{368}, \frac{77}{184}, -\frac{27}{92}, -\frac{1}{92}, -\frac{49}{368}, \frac{55}{368})$ $+ \frac{1}{184}\sqrt{10902}e^2 \otimes e_6 + \frac{1}{92}\sqrt{1501}e^4 \otimes e_8 + \frac{1}{92}\sqrt{2449}e^5 \otimes e_7$	{12358, 12459, 2347, 2789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:4	$0, 0, 0, 0, 0, \frac{2}{4053} \sqrt{9334e^{12}}, \frac{4}{4053} \sqrt{69646e^{13}},$ $\frac{2}{4053} \sqrt{225811e^{14}} + \frac{4}{4053} \sqrt{7539e^{23}}$	$(\frac{10}{193}, \frac{15}{193}, -\frac{613}{4053}, -\frac{508}{4053}, \frac{1243}{4053}, \frac{247}{4053}, \frac{25}{193}, -\frac{403}{4053}, -\frac{298}{4053})$ $+ \frac{2}{4053} \sqrt{511934e^2} \otimes e_8 + \frac{4}{4053} \sqrt{124214e^1} \otimes e_4 + \frac{4}{4053} \sqrt{89391e^5} \otimes e_7$	{1235, 12356, 1678, 178}
93:4	$0, 0, 0, 0, 0, \frac{10}{827} \sqrt{329e^{12}}, \frac{30}{827} \sqrt{14e^{13}},$ $\frac{10}{827} \sqrt{1365e^{14}} + \frac{10}{827} \sqrt{329e^{23}}$	$(-\frac{155}{827}, -\frac{25}{827}, \frac{40}{827}, \frac{170}{827}, \frac{235}{827}, \frac{365}{827}, -\frac{180}{827}, -\frac{115}{827}, \frac{15}{827})$ $+ \frac{10}{827} \sqrt{1162e^5} \otimes e_8 + \frac{20}{827} \sqrt{518e^4} \otimes e_7 + \frac{20}{827} \sqrt{518e^6} \otimes e_9$	{123468, 13789, 23567, 3459}
93:4	$0, 0, 0, 0, 0, \frac{1}{115} \sqrt{4161e^{12}}, \frac{1}{115} \sqrt{1767e^{13}}, \frac{3}{115} \sqrt{133e^{14}} + \frac{3}{115} \sqrt{133e^{23}}$	$(-\frac{41}{230}, \frac{16}{115}, \frac{16}{115}, \frac{21}{115}, -\frac{41}{115}, \frac{11}{115}, -\frac{9}{230}, -\frac{9}{230}, \frac{32}{115})$ $+ \frac{2}{115} \sqrt{1482e^2} \otimes e_5 + \frac{2}{115} \sqrt{1482e^4} \otimes e_7$	{123468, 12348, 1356789, 135789, 2367, 237, 34569, 3459}
93:4	$0, 0, 0, 0, 0, \frac{10}{827} \sqrt{1365e^{12}}, \frac{30}{827} \sqrt{14e^{13}},$ $\frac{10}{827} \sqrt{329e^{14}} + \frac{10}{827} \sqrt{329e^{23}}$	$(-\frac{155}{827}, \frac{123}{827}, \frac{40}{827}, \frac{318}{827}, \frac{235}{827}, -\frac{227}{827}, -\frac{32}{827}, -\frac{115}{827}, \frac{163}{827})$ $+ \frac{10}{827} \sqrt{1162e^5} \otimes e_8 + \frac{20}{827} \sqrt{518e^2} \otimes e_6 + \frac{20}{827} \sqrt{518e^4} \otimes e_7$	{12348, 136789, 2357, 34569}
93:4	$0, 0, 0, 0, 0, \frac{1}{675} \sqrt{88862e^{12}}, \frac{1}{675} \sqrt{26602e^{13}},$ $\frac{1}{675} \sqrt{11886e^{14}} + \frac{1}{675} \sqrt{26602e^{23}}$	$(-\frac{14}{75}, \frac{8}{45}, -\frac{37}{675}, \frac{209}{675}, \frac{277}{675}, -\frac{74}{675}, -\frac{2}{225}, -\frac{163}{675}, \frac{83}{675})$ $+ \frac{1}{675} \sqrt{151122e^2} \otimes e_8 + \frac{1}{675} \sqrt{74146e^4} \otimes e_6 + \frac{2}{675} \sqrt{31130e^5} \otimes e_7$	{12356, 1678, 2679, 35689}
93:4	$0, 0, 0, 0, 0, \frac{2}{299} \sqrt{3090e^{12}}, \frac{2}{299} \sqrt{2987e^{13}}, \frac{6}{299} \sqrt{515e^{14}} + \frac{6}{299} \sqrt{515e^{23}}$	$(-\frac{1}{23}, -\frac{42}{299}, \frac{17}{299}, -\frac{12}{299}, \frac{151}{299}, \frac{181}{299}, -\frac{55}{299}, \frac{4}{299}, -\frac{25}{299})$ $+ \frac{2}{299} \sqrt{12154e^5} \otimes e_7 + \frac{4}{299} \sqrt{3811e^6} \otimes e_9$	{1234568, 1259, 13789, 1467, 2367, 24789, 3459, 568}
93:4	$0, 0, 0, 0, 0, \frac{2}{95} \sqrt{627e^{12}}, \frac{2}{95} \sqrt{231e^{13}}, \frac{2}{95} \sqrt{627e^{14}} + \frac{2}{95} \sqrt{231e^{23}}$	$(-\frac{21}{95}, -\frac{2}{95}, \frac{24}{95}, \frac{43}{95}, \frac{43}{95}, -\frac{23}{95}, \frac{23}{95}, \frac{3}{95}, \frac{22}{95})$ $+ \frac{4}{95} \sqrt{429e^4} \otimes e_7 + \frac{66}{95} e^5 \otimes e_6$	{1245, 1246, 1579, 1679, 2578, 2678, 4589, 4689}
93:4	$0, 0, 0, 0, 0, \frac{28}{769} \sqrt{138e^{12}}, \frac{2}{769} \sqrt{6279e^{13}},$ $\frac{2}{769} \sqrt{4186e^{14}} + \frac{2}{769} \sqrt{6279e^{23}}$	$(-\frac{167}{769}, \frac{143}{769}, -\frac{12}{769}, \frac{298}{769}, \frac{227}{769}, -\frac{95}{769}, -\frac{24}{769}, -\frac{179}{769}, \frac{131}{769})$ $+ \frac{2}{769} \sqrt{41538e^4} \otimes e_7 + \frac{322}{769} e^5 \otimes e_6 + \frac{4}{769} \sqrt{11431e^2} \otimes e_8$	{12345, 12346, 34589, 34689}
93:4	$0, 0, 0, 0, 0, \frac{2}{123} \sqrt{395e^{12}}, \frac{2}{123} \sqrt{395e^{13}}, \frac{2}{123} \sqrt{3634e^{14}} + \frac{2}{123} \sqrt{395e^{23}}$	$(-\frac{5}{41}, \frac{31}{123}, \frac{31}{123}, \frac{77}{123}, -\frac{27}{41}, \frac{7}{123}, \frac{16}{123}, \frac{62}{123})$ $+ \frac{2}{123} \sqrt{8058e^4} \otimes e_5$	{12356789, 1235789, 12467, 1247, 1569, 159, 23469, 2349, 2568, 258, 46789, 4789}
93:4	$0, 0, 0, 0, 0, \frac{6}{383} \sqrt{434e^{12}}, \frac{6}{383} \sqrt{434e^{13}},$ $\frac{2}{383} \sqrt{10974e^{14}} + \frac{2}{383} \sqrt{5115e^{23}}$	$(\frac{29}{383}, \frac{50}{383}, \frac{50}{383}, \frac{71}{383}, -\frac{157}{383}, -\frac{115}{383}, \frac{79}{383}, \frac{79}{383}, \frac{100}{383})$ $+ \frac{2}{383} \sqrt{18042e^1} \otimes e_5 + \frac{4}{383} \sqrt{3534e^4} \otimes e_6$	{12369, 1248, 16789, 2345789, 2567, 459}
93:4	$0, 0, 0, 0, 0, \frac{1}{180} \sqrt{1943e^{12}}, \frac{1}{180} \sqrt{1943e^{13}}, \frac{1}{36} \sqrt{58e^{14}} + \frac{1}{90} \sqrt{667e^{23}}$	$(-\frac{29}{180}, \frac{1}{40}, \frac{1}{40}, \frac{19}{90}, \frac{19}{90}, \frac{13}{180}, -\frac{49}{360}, -\frac{49}{360}, \frac{1}{20})$ $+ \frac{1}{180} \sqrt{4118e^2} \otimes e_8 + \frac{1}{180} \sqrt{4118e^3} \otimes e_7 + \frac{1}{36} \sqrt{58e^5} \otimes e_9$	{1235, 12356, 15678, 1578, 2679, 279}
93:4	$0, 0, 0, 0, 0, \frac{1}{180} \sqrt{1943e^{12}}, \frac{1}{180} \sqrt{1943e^{13}}, \frac{1}{36} \sqrt{58e^{14}} + \frac{1}{90} \sqrt{667e^{23}}$	$(-\frac{29}{180}, \frac{1}{40}, \frac{1}{40}, \frac{19}{90}, \frac{19}{90}, \frac{13}{180}, -\frac{49}{360}, -\frac{49}{360}, \frac{1}{20})$ $+ \frac{1}{180} \sqrt{4118e^2} \otimes e_8 - \frac{1}{180} \sqrt{4118e^3} \otimes e_7 + \frac{1}{36} \sqrt{58e^5} \otimes e_9$	{1235, 12356, 15678, 1578, 2679, 279}
93:4	$0, 0, 0, 0, 0, \frac{1}{31} \sqrt{231e^{12}}, \frac{1}{31} \sqrt{231e^{13}}, \frac{1}{31} \sqrt{627e^{14}} + \frac{1}{31} \sqrt{627e^{23}}$	$(\frac{5}{62}, -\frac{1}{31}, -\frac{1}{31}, -\frac{9}{62}, 1, \frac{5}{31}, \frac{3}{62}, \frac{3}{62}, -\frac{2}{31})$ $+ \frac{2}{31} \sqrt{429e^5} \otimes e_9$	{12345678, 1234578, 12679, 1279, 145, 1456, 235, 2356, 24689, 2489, 5678, 578}
93:4	$0, 0, 0, 0, 0, \frac{6}{1163} \sqrt{5010e^{12}}, \frac{18}{1163} \sqrt{305e^{13}},$ $\frac{6}{1163} \sqrt{165e^{14}} + \frac{6}{1163} \sqrt{165e^{23}}$	$(-\frac{33}{1163}, \frac{150}{1163}, -\frac{87}{1163}, \frac{96}{1163}, \frac{387}{1163}, -\frac{303}{1163}, \frac{117}{1163}, -\frac{120}{1163}, \frac{63}{1163})$ $+ \frac{12}{1163} \sqrt{1455e^1} \otimes e_6 + \frac{12}{1163} \sqrt{1455e^2} \otimes e_8 + \frac{6}{1163} \sqrt{4530e^5} \otimes e_7$	{123459, 14789, 2467, 34568}
93:4	$0, 0, 0, 0, 0, \frac{1}{304} \sqrt{6279e^{12}}, \frac{1}{304} \sqrt{6279e^{13}},$ $\frac{1}{304} \sqrt{4186e^{14}} + \frac{7}{152} \sqrt{138e^{23}}$	$(-\frac{1}{16}, \frac{143}{608}, \frac{141}{608}, \frac{5}{76}, \frac{81}{304}, \frac{33}{304}, \frac{105}{608}, -\frac{179}{608}, \frac{1}{304})$ $+ \frac{1}{152} \sqrt{11431e^2} \otimes e_8 + \frac{1}{304} \sqrt{41538e^5} \otimes e_9$	{12345, 123456, 145678, 14578, 24679, 2479, 34689, 3489}
93:4	$0, 0, 0, 0, 0, \frac{2}{127} \sqrt{1830e^{12}}, \frac{2}{127} \sqrt{1830e^{13}},$ $\frac{2}{127} \sqrt{1830e^{14}} + \frac{2}{127} \sqrt{1403e^{23}}$	$(\frac{37}{127}, \frac{14}{127}, \frac{14}{127}, -\frac{9}{127}, -\frac{85}{127}, \frac{21}{127}, \frac{51}{127}, \frac{51}{127}, \frac{28}{127})$ $+ \frac{2}{127} \sqrt{6466e^1} \otimes e_5$	{12369, 1239, 12468, 1248, 16789, 1789, 23456789, 2345789, 2567, 257, 4569, 459}
93:4	$0, 0, 0, 0, 0, \frac{7}{304} \sqrt{138e^{12}}, \frac{1}{304} \sqrt{6279e^{13}},$ $\frac{1}{304} \sqrt{6279e^{14}} + \frac{1}{304} \sqrt{4186e^{23}}$	$(\frac{13}{76}, \frac{65}{304}, \frac{1}{608}, \frac{27}{608}, -\frac{109}{304}, -\frac{6}{19}, \frac{117}{304}, \frac{105}{608}, \frac{131}{608})$ $+ \frac{1}{152} \sqrt{11431e^1} \otimes e_5 + \frac{1}{304} \sqrt{41538e^2} \otimes e_6$	{1234, 1289, 13679, 14678, 23578, 24579, 345689, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{442}e^{12}, \frac{4}{103}\sqrt{65}e^{34}, \frac{4}{103}\sqrt{78}e^{13} + \frac{2}{103}\sqrt{299}e^{24}$	$(-\frac{7}{103}, -\frac{2}{103}, \frac{17}{103}, \frac{12}{103}, -\frac{33}{103}, \frac{9}{103}, -\frac{9}{103}, \frac{29}{103}, \frac{10}{103})$ $+ \frac{2}{103}\sqrt{546}e^1 \otimes e_5 + \frac{52}{103}e^3 \otimes e_7$	{12368, 1238, 1679, 179, 2567, 257, 35689, 3589}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{203}e^{12}, \frac{2}{43}\sqrt{21}e^{34}, \frac{1}{43}\sqrt{119}e^{13} + \frac{7}{43}\sqrt{3}e^{24}$	$(\frac{5}{43}, -\frac{35}{172}, -\frac{7}{86}, \frac{41}{172}, \frac{31}{86}, -\frac{9}{43}, -\frac{15}{172}, \frac{27}{172}, \frac{3}{86})$ $+ \frac{1}{43}\sqrt{329}e^5 \otimes e_9 + \frac{1}{43}\sqrt{357}e^1 \otimes e_6 + \frac{1}{43}\sqrt{413}e^4 \otimes e_7$	{12345, 13578, 236789, 3469}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1005}e^{12}, \frac{1}{59}\sqrt{1005}e^{34}, \frac{1}{118}\sqrt{2010}e^{13} + \frac{1}{118}\sqrt{2747}e^{24}$	$(\frac{79}{236}, \frac{2}{59}, -\frac{63}{236}, \frac{2}{59}, \frac{47}{118}, -\frac{10}{59}, \frac{87}{236}, -\frac{55}{236}, \frac{4}{59})$ $+ \frac{1}{118}\sqrt{9514}e^1 \otimes e_8 + \frac{67}{118}e^5 \otimes e_6$	{13457, 13467, 1579, 1679, 3589, 3689, 458, 468}
93:5	$0, 0, 0, 0, 0, 0, \frac{34}{823}\sqrt{55}e^{12}, \frac{4}{823}\sqrt{1955}e^{34},$ $\frac{2}{823}\sqrt{18105}e^{13} + \frac{10}{823}\sqrt{323}e^{24}$	$(-\frac{52}{823}, -\frac{29}{823}, \frac{89}{823}, \frac{66}{823}, \frac{207}{823}, -\frac{222}{823}, -\frac{81}{823}, \frac{155}{823}, \frac{37}{823})$ $+ \frac{10}{823}\sqrt{969}e^1 \otimes e_6 + \frac{24}{823}\sqrt{85}e^5 \otimes e_9 + \frac{2}{823}\sqrt{28135}e^3 \otimes e_7$	{12358, 179, 2567, 3689}
93:5	$0, 0, 0, 0, 0, 0, \frac{3}{67}\sqrt{129}e^{12}, \frac{2}{67}\sqrt{258}e^{34}, \frac{1}{67}\sqrt{645}e^{13} + \frac{1}{67}\sqrt{731}e^{24}$	$(\frac{37}{134}, \frac{5}{134}, -\frac{12}{67}, \frac{4}{67}, \frac{35}{67}, -\frac{49}{67}, \frac{21}{67}, -\frac{8}{67}, \frac{13}{134})$ $+ \frac{1}{67}\sqrt{2365}e^5 \otimes e_8 + \frac{8}{67}\sqrt{43}e^1 \otimes e_6$	{1238, 12489, 13457, 1579, 2345679, 2567, 3689, 468}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{391}\sqrt{10582}e^{12}, \frac{1}{391}\sqrt{28457}e^{34},$ $\frac{1}{391}\sqrt{7293}e^{13} + \frac{1}{391}\sqrt{22451}e^{24}$	$(\frac{72}{391}, -\frac{32}{391}, -\frac{175}{782}, \frac{33}{782}, \frac{183}{391}, \frac{75}{391}, \frac{40}{391}, -\frac{71}{391}, -\frac{31}{782})$ $+ \frac{1}{391}\sqrt{41613}e^5 \otimes e_7 + \frac{52}{391}\sqrt{22}e^1 \otimes e_8$	{13467, 1347, 1679, 179, 35689, 3589, 4568, 458}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{57706}e^{12}, \frac{7}{1315}\sqrt{4026}e^{34},$ $\frac{2}{1315}\sqrt{142923}e^{13} + \frac{1}{1315}\sqrt{189222}e^{24}$	$(\frac{227}{1315}, -\frac{58}{1315}, -\frac{153}{1315}, \frac{132}{1315}, \frac{149}{263}, -\frac{444}{1315}, \frac{169}{1315}, -\frac{21}{1315}, \frac{74}{1315})$ $+ \frac{1}{1315}\sqrt{830698}e^5 \otimes e_9 + \frac{2}{1315}\sqrt{191235}e^1 \otimes e_6$	{123458, 1289, 1357, 1479, 23679, 24567, 34689, 568}
93:5	$0, 0, 0, 0, 0, 0, \frac{9}{112}\sqrt{14}e^{12}, \frac{3}{28}\sqrt{7}e^{34}, \frac{3}{112}\sqrt{70}e^{13} + \frac{3}{56}\sqrt{23}e^{24}$	$(-\frac{15}{224}, -\frac{1}{224}, \frac{5}{56}, \frac{3}{112}, \frac{31}{112}, -\frac{51}{224}, -\frac{1}{14}, \frac{13}{112}, \frac{5}{56})$ $+ \frac{3}{112}\sqrt{134}e^1 \otimes e_6 + \frac{3}{112}\sqrt{190}e^3 \otimes e_7 + \frac{3}{56}\sqrt{23}e^5 \otimes e_8$	{1238, 1579, 2567, 3689}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{66}e^{12}, \frac{2}{41}\sqrt{66}e^{34}, \frac{2}{41}\sqrt{33}e^{13} + \frac{2}{41}\sqrt{33}e^{24}$	$(\frac{5}{41}, \frac{5}{41}, \frac{5}{41}, \frac{5}{41}, 1, -\frac{25}{41}, \frac{10}{41}, \frac{10}{41}, \frac{10}{41})$ $+ \frac{66}{41}e^5 \otimes e_6$	{12345, 12346, 1259, 1269, 13578, 13678, 145789, 146789, 5, 6}
93:5	$0, 0, 0, 0, 0, 0, \frac{24}{3281}\sqrt{2993}e^{12}, \frac{54}{3281}\sqrt{287}e^{34},$ $\frac{6}{3281}\sqrt{8446}e^{13} + \frac{6}{3281}\sqrt{697}e^{24}$	$(\frac{138}{3281}, \frac{327}{3281}, -\frac{111}{3281}, -\frac{300}{3281}, \frac{1203}{3281}, -\frac{600}{3281}, \frac{465}{3281}, -\frac{411}{3281}, \frac{27}{3281})$ $+ \frac{12}{3281}\sqrt{12587}e^2 \otimes e_8 + \frac{30}{3281}\sqrt{1394}e^1 \otimes e_6 + \frac{6}{3281}\sqrt{39073}e^5 \otimes e_7$	{123459, 125, 13789, 1478}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{463}\sqrt{66234}e^{12}, \frac{1}{463}\sqrt{2490}e^{34},$ $\frac{8}{463}\sqrt{249}e^{13} + \frac{8}{463}\sqrt{249}e^{24}$	$(\frac{91}{463}, \frac{91}{463}, \frac{22}{463}, \frac{22}{463}, -\frac{158}{463}, -\frac{158}{463}, \frac{182}{463}, \frac{44}{463}, \frac{113}{463})$ $+ \frac{3}{463}\sqrt{11454}e^1 \otimes e_5 + \frac{3}{463}\sqrt{11454}e^2 \otimes e_6$	{12348, 1289, 1367, 14679, 345689, 568}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{40}\sqrt{574}e^{12}, \frac{1}{40}\sqrt{574}e^{34}, \frac{3}{40}\sqrt{123}e^{13} + \frac{3}{40}\sqrt{123}e^{24}$	$(-\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, \frac{1}{20}, \frac{3}{20}, -\frac{1}{40}, -\frac{1}{40}, -\frac{1}{40})$ $+ \frac{1}{20}\sqrt{697}e^5 \otimes e_9$	{12345678, 1234578, 126789, 12789, 135, 1356, 1469, 149, 5678, 578}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{3990}e^{12}, \frac{1}{157}\sqrt{3990}e^{34}, \frac{7}{157}\sqrt{10}e^{13} + \frac{7}{157}\sqrt{10}e^{24}$	$(\frac{36}{157}, -\frac{35}{157}, -\frac{35}{157}, \frac{36}{157}, \frac{15}{157}, \frac{15}{157}, \frac{1}{157}, \frac{1}{157}, \frac{1}{157})$ $+ \frac{1}{157}\sqrt{4970}e^1 \otimes e_8 + \frac{1}{157}\sqrt{4970}e^4 \otimes e_7$	{1234569, 123459, 12349, 235678, 23578, 2378}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{322}e^{12}, \frac{1}{43}\sqrt{203}e^{34}, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{119}e^{24}$	$(\frac{6}{43}, -\frac{7}{86}, -\frac{35}{172}, \frac{3}{172}, \frac{33}{86}, \frac{45}{86}, \frac{5}{43}, -\frac{8}{43}, -\frac{11}{172})$ $+ \frac{1}{43}\sqrt{210}e^6 \otimes e_9 + \frac{1}{43}\sqrt{357}e^5 \otimes e_7 + \frac{2}{43}\sqrt{133}e^1 \otimes e_8$	{13467, 179, 3589, 4568}
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{203}e^{12}, \frac{2}{43}\sqrt{21}e^{34}, \frac{1}{43}\sqrt{119}e^{13} + \frac{7}{43}\sqrt{3}e^{24}$	$(\frac{5}{43}, \frac{6}{43}, -\frac{7}{86}, -\frac{9}{86}, \frac{31}{86}, -\frac{9}{43}, \frac{11}{43}, -\frac{8}{43}, \frac{3}{86})$ $+ \frac{1}{43}\sqrt{329}e^5 \otimes e_9 + \frac{1}{43}\sqrt{357}e^1 \otimes e_6 + \frac{1}{43}\sqrt{413}e^2 \otimes e_8$	{12345, 129, 13578, 14789}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{405}\sqrt{14214}e^{12}, \frac{8}{405}\sqrt{103}e^{34},$ $\frac{4}{405}\sqrt{1133}e^{13} + \frac{2}{405}\sqrt{5459}e^{24}$	$(\frac{17}{135}, -\frac{46}{405}, -\frac{7}{135}, \frac{76}{405}, \frac{211}{405}, -\frac{31}{81}, \frac{1}{81}, \frac{11}{81}, \frac{2}{27})$ $+ \frac{2}{405}\sqrt{19982}e^1 \otimes e_6 + \frac{4}{405}\sqrt{4429}e^5 \otimes e_7$	{12358, 124589, 1347, 179, 234679, 267, 35689, 4568}
93:5	$0, 0, 0, 0, 0, 0, \frac{28}{181}\sqrt{6}e^{12}, \frac{7}{181}\sqrt{102}e^{34}, \frac{7}{181}\sqrt{30}e^{13} + \frac{14}{181}e^{24}$	$(\frac{23}{181}, -\frac{35}{181}, -\frac{21}{181}, \frac{37}{181}, \frac{65}{181}, -\frac{26}{181}, -\frac{12}{181}, \frac{16}{181}, \frac{2}{181})$ $+ \frac{35}{181}\sqrt{6}e^4 \otimes e_7 + \frac{70}{181}e^5 \otimes e_8 + \frac{7}{181}\sqrt{82}e^1 \otimes e_6$	{1248, 157, 25679, 4689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:5	$0, 0, 0, 0, 0, 0, \frac{1}{161}\sqrt{134}e^{12}, \frac{1}{161}\sqrt{134}e^{34}, \frac{3}{161}\sqrt{6}e^{13} + \frac{6}{161}\sqrt{3}e^{24}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+\frac{1}{161}\sqrt{26}e^5 \otimes e_9 + \frac{9}{161}\sqrt{2}e^1 \otimes e_8 + \frac{9}{161}\sqrt{2}e^3 \otimes e_7$	{15679, 1579}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{38766}e^{12}, \frac{4}{499}\sqrt{273}e^{34},$ $\frac{28}{499}\sqrt{195}e^{13} + \frac{2}{499}\sqrt{18291}e^{24}$	$(\frac{217}{499}, \frac{10}{499}, -\frac{59}{499}, \frac{148}{499}, -\frac{329}{499}, \frac{85}{499}, \frac{227}{499}, \frac{89}{499}, \frac{158}{499})$ $+\frac{6}{499}\sqrt{12558}e^1 \otimes e_5$	{12368, 1238, 124689, 12489, 13467, 1347, 1679, 179, 2345679, 234579, 2567, 257, 35689, 3589, 4568, 458}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{1155}e^{12}, \frac{2}{157}\sqrt{1155}e^{34},$ $\frac{1}{157}\sqrt{2310}e^{13} + \frac{1}{157}\sqrt{2310}e^{24}$	$(\frac{55}{157}, -\frac{14}{157}, -\frac{14}{157}, \frac{55}{157}, -\frac{50}{157}, -\frac{50}{157}, \frac{41}{157}, \frac{41}{157}, \frac{41}{157})$ $+\frac{3}{157}\sqrt{1610}e^1 \otimes e_5 + \frac{3}{157}\sqrt{1610}e^4 \otimes e_6$	{1234, 1269, 13678, 14789, 2356789, 56}
93:5	$0, 0, 0, 0, 0, 0, \frac{7}{76}\sqrt{38}e^{12}, \frac{7}{76}\sqrt{38}e^{34}, \frac{7}{76}\sqrt{15}e^{13} + \frac{7}{76}\sqrt{15}e^{24}$	$(-\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, \frac{21}{152}, \frac{21}{152}, -\frac{7}{76}, -\frac{7}{76}, -\frac{7}{76})$ $+\frac{7}{38}\sqrt{17}e^5 \otimes e_7 + \frac{7}{38}\sqrt{17}e^6 \otimes e_8$	{1234569, 1256, 13789, 1478, 569}
93:5	$0, 0, 0, 0, 0, 0, \frac{4}{153}\sqrt{14}e^{12}, \frac{4}{153}\sqrt{14}e^{34}, \frac{4}{153}\sqrt{7}e^{13} + \frac{2}{153}\sqrt{43}e^{24}$	$(-\frac{2}{153}, -\frac{2}{153}, -\frac{2}{153}, -\frac{2}{153}, \frac{11}{153}, \frac{11}{153}, -\frac{4}{153}, -\frac{4}{153}, -\frac{4}{153})$ $+\frac{2}{153}\sqrt{71}e^1 \otimes e_8 + \frac{2}{153}\sqrt{71}e^3 \otimes e_7$	{15679, 1579, 179}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{94}e^{12}, \frac{3}{67}\sqrt{47}e^{34}, \frac{1}{67}\sqrt{987}e^{13} + \frac{1}{67}\sqrt{987}e^{24}$	$(-\frac{7}{67}, -\frac{7}{67}, \frac{3}{134}, \frac{3}{134}, \frac{33}{67}, \frac{83}{134}, -\frac{14}{67}, \frac{3}{67}, -\frac{11}{134})$ $+\frac{1}{67}\sqrt{2397}e^5 \otimes e_7 + \frac{2}{67}\sqrt{799}e^6 \otimes e_9$	{1234568, 12589, 1367, 1479, 34589, 568}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{110751}e^{12}, \frac{1}{1219}\sqrt{274398}e^{34},$ $\frac{1}{1219}\sqrt{38570}e^{13} + \frac{4}{1219}\sqrt{3306}e^{24}$	$(\frac{227}{1219}, \frac{310}{1219}, -\frac{79}{1219}, -\frac{162}{1219}, -\frac{324}{1219}, \frac{135}{1219}, \frac{537}{1219}, -\frac{241}{1219}, \frac{148}{1219})$ $+\frac{25}{1219}\sqrt{1102}e^2 \otimes e_8 + \frac{3}{1219}\sqrt{56202}e^1 \otimes e_5$	{234567, 23457, 25679, 2579, 3568, 358, 45689, 4589}
93:5	$0, 0, 0, 0, 0, 0, \frac{4}{51}\sqrt{21}e^{12}, \frac{4}{51}\sqrt{21}e^{34}, \frac{4}{17}\sqrt{5}e^{13} + \frac{8}{51}\sqrt{6}e^{24}$	$(\frac{2}{17}, \frac{2}{17}, \frac{2}{17}, \frac{2}{17}, -\frac{6}{17}, -\frac{6}{17}, \frac{4}{17}, \frac{4}{17}, \frac{4}{17})$ $+\frac{4}{51}\sqrt{69}e^1 \otimes e_5 + \frac{4}{51}\sqrt{69}e^3 \otimes e_6$	{1238, 124689, 1679, 2567}
93:5	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{1005}e^{12}, \frac{4}{169}\sqrt{1005}e^{34},$ $\frac{2}{169}\sqrt{2010}e^{13} + \frac{2}{169}\sqrt{2747}e^{24}$	$(\frac{79}{169}, \frac{8}{169}, -\frac{63}{169}, \frac{8}{169}, \frac{27}{169}, \frac{27}{169}, \frac{87}{169}, -\frac{55}{169}, \frac{16}{169})$ $+\frac{2}{169}\sqrt{9514}e^1 \otimes e_8$	{134567, 13457, 1347, 15679, 1579, 179, 35689, 3589, 389, 4568, 458, 48}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{14}e^{12}, \frac{2}{77}\sqrt{14}e^{34}, \frac{2}{77}\sqrt{7}e^{13} + \frac{1}{77}\sqrt{43}e^{24}$	$(-\frac{1}{77}, -\frac{1}{77}, -\frac{1}{77}, -\frac{1}{77}, \frac{6}{77}, \frac{5}{77}, -\frac{2}{77}, -\frac{2}{77}, -\frac{2}{77})$ $+\frac{1}{77}\sqrt{71}e^1 \otimes e_8 + \frac{1}{77}\sqrt{71}e^3 \otimes e_7 + \frac{1}{77}e^5 \otimes e_6$	{1579, 1679}
93:5	$0, 0, 0, 0, 0, 0, \frac{6}{31}\sqrt{26}e^{12}, \frac{1}{31}\sqrt{273}e^{34}, \frac{1}{31}\sqrt{195}e^{13} + \frac{1}{31}\sqrt{195}e^{24}$	$(-\frac{4}{31}, -\frac{4}{31}, \frac{9}{62}, \frac{9}{62}, 1, \frac{11}{62}, -\frac{8}{31}, \frac{9}{62}, \frac{1}{62})$ $+\frac{3}{31}\sqrt{221}e^5 \otimes e_7$	{1234569, 123459, 125, 1256, 136789, 13789, 14678, 1478, 345, 3456, 569, 59}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{349}\sqrt{3990}e^{12}, \frac{2}{349}\sqrt{3990}e^{34}, \frac{14}{349}\sqrt{10}e^{13} + \frac{14}{349}\sqrt{10}e^{24}$	$(\frac{72}{349}, -\frac{70}{349}, -\frac{70}{349}, \frac{72}{349}, \frac{65}{349}, -\frac{5}{349}, \frac{2}{349}, \frac{2}{349}, \frac{2}{349})$ $+\frac{2}{349}\sqrt{4970}e^1 \otimes e_8 + \frac{2}{349}\sqrt{4970}e^4 \otimes e_7 + \frac{70}{349}e^5 \otimes e_6$	{123459, 123469, 23578, 23678}
93:5	$0, 0, 0, 0, 0, 0, \frac{2}{1219}\sqrt{110751}e^{12}, \frac{1}{1219}\sqrt{274398}e^{34},$ $\frac{1}{1219}\sqrt{38570}e^{13} + \frac{4}{1219}\sqrt{3306}e^{24}$	$(\frac{227}{1219}, -\frac{315}{1219}, -\frac{79}{1219}, \frac{463}{1219}, -\frac{324}{1219}, \frac{135}{1219}, -\frac{88}{1219}, \frac{384}{1219}, \frac{148}{1219})$ $+\frac{25}{1219}\sqrt{1102}e^4 \otimes e_7 + \frac{3}{1219}\sqrt{56202}e^1 \otimes e_5$	{12468, 1248, 167, 17, 25679, 2579, 45689, 4589}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{108}\sqrt{1606}e^{12}, \frac{1}{108}\sqrt{1606}e^{14} - \frac{1}{108}\sqrt{803}e^{23},$ $\frac{1}{108}\sqrt{803}e^{13} + \frac{1}{108}\sqrt{1606}e^{24}$	$(-\frac{29}{216}, -\frac{29}{216}, \frac{11}{27}, \frac{11}{27}, -\frac{29}{108}, \frac{13}{108}, -\frac{29}{108}, \frac{59}{216}, \frac{59}{216})$ $+\frac{1}{108}\sqrt{7738}e^4 \otimes e_7 + \frac{1}{54}\sqrt{1533}e^3 \otimes e_5$	{1234, 12346, 13678, 1378, 34689, 3489, 1234, 12346, 13678, 1378, 34689, 3489}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{108}\sqrt{1606}e^{12}, \frac{1}{108}\sqrt{1606}e^{14} + \frac{1}{108}\sqrt{803}e^{23},$ $\frac{1}{108}\sqrt{803}e^{13} + \frac{1}{108}\sqrt{1606}e^{24}$	$(-\frac{29}{216}, -\frac{29}{216}, \frac{11}{27}, \frac{11}{27}, -\frac{29}{108}, \frac{13}{108}, -\frac{29}{108}, \frac{59}{216}, \frac{59}{216})$ $+\frac{1}{108}\sqrt{7738}e^4 \otimes e_7 + \frac{1}{54}\sqrt{1533}e^3 \otimes e_5$	{1234, 12346, 13678, 1378, 34689, 3489, 1234, 12346, 13678, 1378, 34689, 3489}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{2470}e^{12}, \frac{2}{209}\sqrt{1495}e^{14} - \frac{2}{209}\sqrt{2470}e^{23},$ $\frac{2}{209}\sqrt{2470}e^{13} + \frac{2}{209}\sqrt{1495}e^{24}$	$(-\frac{31}{209}, -\frac{31}{209}, \frac{68}{209}, \frac{68}{209}, \frac{87}{209}, -\frac{43}{209}, -\frac{62}{209}, \frac{37}{209}, \frac{37}{209})$ $+\frac{130}{209}e^5 \otimes e_6 + \frac{2}{209}\sqrt{7930}e^3 \otimes e_7$	{1235, 1236, 1579, 1679, 3589, 3689, 1235, 1236, 1579, 1679, 3589, 3689}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{2470}e^{12}, \frac{2}{209}\sqrt{1495}e^{14} + \frac{2}{209}\sqrt{2470}e^{23},$ $\frac{2}{209}\sqrt{2470}e^{13} + \frac{2}{209}\sqrt{1495}e^{24}$	$(-\frac{31}{209}, -\frac{31}{209}, \frac{68}{209}, \frac{68}{209}, \frac{87}{209}, -\frac{43}{209}, -\frac{62}{209}, \frac{37}{209}, \frac{37}{209})$ $+\frac{130}{209}e^5 \otimes e_6 + \frac{2}{209}\sqrt{7930}e^3 \otimes e_7$	{1235, 1236, 1579, 1679, 3589, 3689, 1235, 1236, 1579, 1679, 3589, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{2470}e^{12}, \frac{1}{72}\sqrt{1495}e^{14} - \frac{1}{72}\sqrt{2470}e^{23},$ $\frac{1}{72}\sqrt{2470}e^{13} + \frac{1}{72}\sqrt{1495}e^{24}$	$(-\frac{31}{144}, -\frac{31}{144}, \frac{17}{36}, \frac{17}{36}, \frac{11}{72}, \frac{11}{72}, -\frac{31}{72}, \frac{37}{144}, \frac{37}{144})$ $+ \frac{1}{72}\sqrt{7930}e^3 \otimes e_7$	{123, 1235, 12356, 15679, 1579, 179, 35689, 3589, 389, 123, 1235, 12356, 15679, 1579, 179, 35689, 3589, 389}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{2470}e^{12}, \frac{1}{72}\sqrt{1495}e^{14} + \frac{1}{72}\sqrt{2470}e^{23},$ $\frac{1}{72}\sqrt{2470}e^{13} + \frac{1}{72}\sqrt{1495}e^{24}$	$(-\frac{31}{144}, -\frac{31}{144}, \frac{17}{36}, \frac{17}{36}, \frac{11}{72}, \frac{11}{72}, -\frac{31}{72}, \frac{37}{144}, \frac{37}{144})$ $+ \frac{1}{72}\sqrt{7930}e^3 \otimes e_7$	{123, 1235, 12356, 15679, 1579, 179, 35689, 3589, 389, 123, 1235, 12356, 15679, 1579, 179, 35689, 3589, 389}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{259}e^{12}, \frac{2}{71}\sqrt{259}e^{14} - \frac{2}{71}\sqrt{851}e^{23},$ $\frac{2}{71}\sqrt{851}e^{13} + \frac{2}{71}\sqrt{259}e^{24}$	$(\frac{2}{71}, \frac{2}{71}, \frac{25}{71}, \frac{25}{71}, -\frac{49}{71}, \frac{11}{71}, \frac{4}{71}, \frac{27}{71}, \frac{27}{71})$ $+ \frac{4}{71}\sqrt{555}e^3 \otimes e_5$	{12367, 1237, 12456789, 1245789, 13468, 1348, 1569, 159, 36789, 3789, 4567, 457, 12367, 1237, 12456789, 1245789, 13468, 1348, 1569, 159, 36789, 3789, 4567, 457}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{259}e^{12}, \frac{2}{71}\sqrt{259}e^{14} + \frac{2}{71}\sqrt{851}e^{23},$ $\frac{2}{71}\sqrt{851}e^{13} + \frac{2}{71}\sqrt{259}e^{24}$	$(\frac{2}{71}, \frac{2}{71}, \frac{25}{71}, \frac{25}{71}, -\frac{49}{71}, \frac{11}{71}, \frac{4}{71}, \frac{27}{71}, \frac{27}{71})$ $+ \frac{4}{71}\sqrt{555}e^3 \otimes e_5$	{12367, 1237, 12456789, 1245789, 13468, 1348, 1569, 159, 36789, 3789, 4567, 457, 12367, 1237, 12456789, 1245789, 13468, 1348, 1569, 159, 36789, 3789, 4567, 457}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4370}e^{12}, \frac{1}{171}\sqrt{3335}e^{14} - \frac{1}{171}\sqrt{6555}e^{23},$ $\frac{1}{171}\sqrt{6555}e^{13} + \frac{1}{171}\sqrt{3335}e^{24}$	$(-\frac{5}{57}, -\frac{5}{57}, \frac{47}{171}, \frac{47}{171}, \frac{85}{171}, -\frac{68}{171}, -\frac{10}{57}, \frac{32}{171}, \frac{32}{171})$ $+ \frac{1}{171}\sqrt{15410}e^5 \otimes e_7 + \frac{2}{171}\sqrt{4945}e^3 \otimes e_6$	{1235, 1245689, 13478, 1679, 3589, 456, 1235, 1245689, 13478, 1679, 3589, 456}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4370}e^{12}, \frac{1}{171}\sqrt{3335}e^{14} + \frac{1}{171}\sqrt{6555}e^{23},$ $\frac{1}{171}\sqrt{6555}e^{13} + \frac{1}{171}\sqrt{3335}e^{24}$	$(-\frac{5}{57}, -\frac{5}{57}, \frac{47}{171}, \frac{47}{171}, \frac{85}{171}, -\frac{68}{171}, -\frac{10}{57}, \frac{32}{171}, \frac{32}{171})$ $+ \frac{1}{171}\sqrt{15410}e^5 \otimes e_7 + \frac{2}{171}\sqrt{4945}e^3 \otimes e_6$	{1235, 1245689, 13478, 1679, 3589, 456, 1235, 1245689, 13478, 1679, 3589, 456}
93:6	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{37}e^{12}, \frac{6}{137}\sqrt{26}e^{14} - \frac{6}{137}\sqrt{26}e^{23},$ $\frac{6}{137}\sqrt{26}e^{13} + \frac{6}{137}\sqrt{26}e^{24}$	$(\frac{26}{137}, \frac{26}{137}, \frac{2}{137}, \frac{2}{137}, -\frac{46}{137}, -\frac{46}{137}, \frac{52}{137}, \frac{28}{137}, \frac{28}{137})$ $+ \frac{12}{137}\sqrt{61}e^1 \otimes e_5 + \frac{12}{137}\sqrt{61}e^2 \otimes e_6$	{1234, 1289, 13678, 345689, 56, 1234, 1289, 13678, 345689, 56}
93:6	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{37}e^{12}, \frac{6}{137}\sqrt{26}e^{14} + \frac{6}{137}\sqrt{26}e^{23},$ $\frac{6}{137}\sqrt{26}e^{13} + \frac{6}{137}\sqrt{26}e^{24}$	$(\frac{26}{137}, \frac{26}{137}, \frac{2}{137}, \frac{2}{137}, -\frac{46}{137}, -\frac{46}{137}, \frac{52}{137}, \frac{28}{137}, \frac{28}{137})$ $+ \frac{12}{137}\sqrt{61}e^1 \otimes e_5 + \frac{12}{137}\sqrt{61}e^2 \otimes e_6$	{1234, 1289, 13678, 345689, 56, 1234, 1289, 13678, 345689, 56}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{259}e^{12}, \frac{2}{71}\sqrt{851}e^{14} - \frac{2}{71}\sqrt{851}e^{23},$ $\frac{2}{71}\sqrt{259}e^{13} + \frac{2}{71}\sqrt{259}e^{24}$	$(\frac{2}{71}, \frac{2}{71}, -\frac{5}{71}, -\frac{5}{71}, 1, \frac{11}{71}, \frac{4}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+ \frac{4}{71}\sqrt{555}e^5 \otimes e_8$	{12345679, 1234579, 12678, 1278, 13689, 1389, 145, 1456, 34678, 3478, 5679, 579, 12345679, 1234579, 12678, 1278, 13689, 1389, 145, 1456, 34678, 3478, 5679, 579}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{259}e^{12}, \frac{2}{71}\sqrt{851}e^{14} + \frac{2}{71}\sqrt{851}e^{23},$ $\frac{2}{71}\sqrt{259}e^{13} + \frac{2}{71}\sqrt{259}e^{24}$	$(\frac{2}{71}, \frac{2}{71}, -\frac{5}{71}, -\frac{5}{71}, 1, \frac{11}{71}, \frac{4}{71}, -\frac{3}{71}, -\frac{3}{71})$ $+ \frac{4}{71}\sqrt{555}e^5 \otimes e_8$	{12345679, 1234579, 12678, 1278, 13689, 1389, 145, 1456, 34678, 3478, 5679, 579, 12345679, 1234579, 12678, 1278, 13689, 1389, 145, 1456, 34678, 3478, 5679, 579}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4370}e^{12}, \frac{1}{171}\sqrt{6555}e^{14} - \frac{1}{171}\sqrt{6555}e^{23},$ $\frac{1}{171}\sqrt{3335}e^{13} + \frac{1}{171}\sqrt{3335}e^{24}$	$(-\frac{5}{57}, -\frac{5}{57}, \frac{4}{171}, \frac{4}{171}, \frac{85}{171}, \frac{104}{171}, -\frac{10}{57}, -\frac{11}{171}, -\frac{11}{171})$ $+ \frac{1}{171}\sqrt{15410}e^5 \otimes e_7 + \frac{2}{171}\sqrt{4945}e^6 \otimes e_8$	{1234569, 1258, 13789, 1467, 3458, 569, 1234569, 1258, 13789, 1467, 3458, 569}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{171}\sqrt{4370}e^{12}, \frac{1}{171}\sqrt{6555}e^{14} + \frac{1}{171}\sqrt{6555}e^{23},$ $\frac{1}{171}\sqrt{3335}e^{13} + \frac{1}{171}\sqrt{3335}e^{24}$	$(-\frac{5}{57}, -\frac{5}{57}, \frac{4}{171}, \frac{4}{171}, \frac{85}{171}, \frac{104}{171}, -\frac{10}{57}, -\frac{11}{171}, -\frac{11}{171})$ $+ \frac{1}{171}\sqrt{15410}e^5 \otimes e_7 + \frac{2}{171}\sqrt{4945}e^6 \otimes e_8$	{1234569, 1258, 13789, 1467, 3458, 569, 1234569, 1258, 13789, 1467, 3458, 569}
93:6	$0, 0, 0, 0, 0, 0, \frac{38}{973}e^{12}, \frac{19}{973}\sqrt{354}e^{14} - \frac{38}{973}\sqrt{89}e^{23},$ $\frac{19}{973}\sqrt{2}e^{13} + \frac{38}{973}e^{24}$	$(-\frac{95}{973}, -\frac{95}{973}, \frac{171}{973}, \frac{171}{973}, \frac{437}{973}, -\frac{190}{973}, -\frac{190}{973}, \frac{76}{973}, \frac{76}{973})$ $+ \frac{19}{973}\sqrt{534}e^4 \otimes e_7 + \frac{19}{973}\sqrt{538}e^3 \otimes e_6 + \frac{38}{973}\sqrt{179}e^5 \otimes e_8$	{12678, 1456, 24689, 5679, 12678, 1456, 24689, 5679}
93:6	$0, 0, 0, 0, 0, 0, \frac{38}{973}e^{12}, \frac{19}{973}\sqrt{354}e^{14} + \frac{38}{973}\sqrt{89}e^{23},$ $\frac{19}{973}\sqrt{2}e^{13} + \frac{38}{973}e^{24}$	$(-\frac{95}{973}, -\frac{95}{973}, \frac{171}{973}, \frac{171}{973}, \frac{437}{973}, -\frac{190}{973}, -\frac{190}{973}, \frac{76}{973}, \frac{76}{973})$ $+ \frac{19}{973}\sqrt{534}e^4 \otimes e_7 + \frac{19}{973}\sqrt{538}e^3 \otimes e_6 + \frac{38}{973}\sqrt{179}e^5 \otimes e_8$	{12678, 1456, 24689, 5679, 12678, 1456, 24689, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:6	$0, 0, 0, 0, 0, 0, \frac{3}{71}\sqrt{546}e^{12}, \frac{1}{71}\sqrt{455}e^{14} - \frac{1}{71}\sqrt{455}e^{23},$ $\frac{1}{71}\sqrt{455}e^{13} + \frac{1}{71}\sqrt{455}e^{24}$	$(-\frac{10}{71}, -\frac{10}{71}, \frac{17}{71}, \frac{17}{71}, 1, \frac{12}{71}, -\frac{20}{71}, \frac{7}{71}, \frac{7}{71})$ $+ \frac{1}{71}\sqrt{10738}e^5 \otimes e_7$	{12345689, 1234589, 125, 1256, 13679, 1379, 345, 3456, 5689, 589, 12345689, 1234589, 125, 1256, 13679, 1379, 345, 3456, 5689, 589}
93:6	$0, 0, 0, 0, 0, 0, \frac{3}{71}\sqrt{546}e^{12}, \frac{1}{71}\sqrt{455}e^{14} + \frac{1}{71}\sqrt{455}e^{23},$ $\frac{1}{71}\sqrt{455}e^{13} + \frac{1}{71}\sqrt{455}e^{24}$	$(-\frac{10}{71}, -\frac{10}{71}, \frac{17}{71}, \frac{17}{71}, 1, \frac{12}{71}, -\frac{20}{71}, \frac{7}{71}, \frac{7}{71})$ $+ \frac{1}{71}\sqrt{10738}e^5 \otimes e_7$	{12345689, 1234589, 125, 1256, 13679, 1379, 345, 3456, 5689, 589, 12345689, 1234589, 125, 1256, 13679, 1379, 345, 3456, 5689, 589}
93:6	$0, 0, 0, 0, 0, 0, \frac{20}{109}e^{12}, \frac{2}{109}\sqrt{30}e^{14} - \frac{2}{109}\sqrt{390}e^{23},$ $\frac{2}{109}\sqrt{390}e^{13} + \frac{2}{109}\sqrt{30}e^{24}$	$(-\frac{14}{109}, -\frac{14}{109}, \frac{12}{109}, \frac{12}{109}, \frac{38}{109}, \frac{38}{109}, -\frac{28}{109}, -\frac{2}{109}, -\frac{2}{109})$ $+ \frac{4}{109}\sqrt{145}e^5 \otimes e_8 + \frac{4}{109}\sqrt{145}e^6 \otimes e_9 + \frac{4}{109}\sqrt{210}e^3 \otimes e_7$	{12356, 1579, 389, 12356, 1579, 389}
93:6	$0, 0, 0, 0, 0, 0, \frac{20}{109}e^{12}, \frac{2}{109}\sqrt{30}e^{14} + \frac{2}{109}\sqrt{390}e^{23},$ $\frac{2}{109}\sqrt{390}e^{13} + \frac{2}{109}\sqrt{30}e^{24}$	$(-\frac{14}{109}, -\frac{14}{109}, \frac{12}{109}, \frac{12}{109}, \frac{38}{109}, \frac{38}{109}, -\frac{28}{109}, -\frac{2}{109}, -\frac{2}{109})$ $+ \frac{4}{109}\sqrt{145}e^5 \otimes e_8 + \frac{4}{109}\sqrt{145}e^6 \otimes e_9 + \frac{4}{109}\sqrt{210}e^3 \otimes e_7$	{12356, 1579, 389, 12356, 1579, 389}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{216}\sqrt{13774}e^{12}, \frac{1}{216}\sqrt{5626}e^{14} - \frac{1}{216}\sqrt{5335}e^{23},$ $\frac{1}{216}\sqrt{5626}e^{13} + \frac{1}{216}\sqrt{5335}e^{24}$	$(\frac{1}{72}, \frac{1}{72}, \frac{35}{432}, \frac{35}{432}, \frac{103}{216}, -\frac{47}{108}, \frac{36}{432}, \frac{41}{432})$ $+ \frac{1}{108}\sqrt{4074}e^5 \otimes e_7 + \frac{1}{216}\sqrt{21922}e^1 \otimes e_6$	{12358, 1347, 1789, 2346789, 267, 3569, 12358, 1347, 1789, 2346789, 267, 3569}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{216}\sqrt{13774}e^{12}, \frac{1}{216}\sqrt{5626}e^{14} + \frac{1}{216}\sqrt{5335}e^{23},$ $\frac{1}{216}\sqrt{5626}e^{13} + \frac{1}{216}\sqrt{5335}e^{24}$	$(\frac{1}{72}, \frac{1}{72}, \frac{35}{432}, \frac{35}{432}, \frac{103}{216}, -\frac{47}{108}, \frac{36}{432}, \frac{41}{432})$ $+ \frac{1}{108}\sqrt{4074}e^5 \otimes e_7 + \frac{1}{216}\sqrt{21922}e^1 \otimes e_6$	{12358, 1347, 1789, 2346789, 267, 3569, 12358, 1347, 1789, 2346789, 267, 3569}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{2470}e^{12}, \frac{1}{72}\sqrt{2470}e^{14} - \frac{1}{72}\sqrt{1495}e^{23},$ $\frac{1}{72}\sqrt{2470}e^{13} + \frac{1}{72}\sqrt{1495}e^{24}$	$(\frac{5}{24}, \frac{5}{24}, \frac{7}{144}, \frac{7}{144}, -\frac{25}{36}, \frac{11}{72}, \frac{5}{12}, \frac{37}{144}, \frac{37}{144})$ $+ \frac{1}{72}\sqrt{7930}e^1 \otimes e_5$	{12368, 1238, 13467, 1347, 16789, 1789, 23456789, 2345789, 2567, 257, 3569, 359, 12368, 1238, 13467, 1347, 16789, 1789, 23456789, 2345789, 2567, 257, 3569, 359}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{2470}e^{12}, \frac{1}{72}\sqrt{2470}e^{14} + \frac{1}{72}\sqrt{1495}e^{23},$ $\frac{1}{72}\sqrt{2470}e^{13} + \frac{1}{72}\sqrt{1495}e^{24}$	$(\frac{5}{24}, \frac{5}{24}, \frac{7}{144}, \frac{7}{144}, -\frac{25}{36}, \frac{11}{72}, \frac{5}{12}, \frac{37}{144}, \frac{37}{144})$ $+ \frac{1}{72}\sqrt{7930}e^1 \otimes e_5$	{12368, 1238, 13467, 1347, 16789, 1789, 23456789, 2345789, 2567, 257, 3569, 359, 12368, 1238, 13467, 1347, 16789, 1789, 23456789, 2345789, 2567, 257, 3569, 359}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{29}e^{12}, \frac{1}{18}\sqrt{29}e^{14} - \frac{1}{18}\sqrt{29}e^{23},$ $\frac{1}{18}\sqrt{29}e^{13} + \frac{1}{18}\sqrt{29}e^{24}$	$(\frac{1}{9}, \frac{1}{9}, \frac{5}{36}, \frac{5}{36}, 1, -\frac{11}{18}, \frac{2}{9}, \frac{1}{4}, \frac{1}{4})$ $+ \frac{29}{18}e^5 \otimes e_6$	{12345, 12346, 12589, 12689, 13578, 13678, 34589, 34689, 5, 6, 12345, 12346, 12589, 12689, 13578, 13678, 34589, 34689, 5, 6}
93:6	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{29}e^{12}, \frac{1}{18}\sqrt{29}e^{14} + \frac{1}{18}\sqrt{29}e^{23},$ $\frac{1}{18}\sqrt{29}e^{13} + \frac{1}{18}\sqrt{29}e^{24}$	$(\frac{1}{9}, \frac{1}{9}, \frac{5}{36}, \frac{5}{36}, 1, -\frac{11}{18}, \frac{2}{9}, \frac{1}{4}, \frac{1}{4})$ $+ \frac{29}{18}e^5 \otimes e_6$	{12345, 12346, 12589, 12689, 13578, 13678, 34589, 34689, 5, 6, 12345, 12346, 12589, 12689, 13578, 13678, 34589, 34689, 5, 6}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{14} - \frac{2}{9}\sqrt{3}e^{23},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24}$	$(0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{4}{9}\sqrt{3}e^3 \otimes e_5 + \frac{4}{9}\sqrt{3}e^4 \otimes e_6$	{12347, 1256789, 1368, 34789, 567, 12347, 1256789, 1368, 34789, 567}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{14} + \frac{2}{9}\sqrt{3}e^{23},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24}$	$(0, 0, \frac{1}{3}, \frac{1}{3}, -\frac{1}{3}, -\frac{1}{3}, 0, \frac{1}{3}, \frac{1}{3})$ $+ \frac{4}{9}\sqrt{3}e^3 \otimes e_5 + \frac{4}{9}\sqrt{3}e^4 \otimes e_6$	{12347, 1256789, 1368, 34789, 567, 12347, 1256789, 1368, 34789, 567}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{14} - \frac{2}{9}\sqrt{3}e^{23},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24}$	$(0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{5}{9}, \frac{5}{9}, 0, -\frac{1}{9}, -\frac{1}{9})$ $+ \frac{4}{9}\sqrt{3}e^5 \otimes e_8 + \frac{4}{9}\sqrt{3}e^6 \otimes e_9$	{1234567, 12789, 1368, 34789, 567, 1234567, 12789, 1368, 34789, 567}
93:6	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12}, \frac{2}{9}\sqrt{3}e^{14} + \frac{2}{9}\sqrt{3}e^{23},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24}$	$(0, 0, -\frac{1}{9}, -\frac{1}{9}, \frac{5}{9}, \frac{5}{9}, 0, -\frac{1}{9}, -\frac{1}{9})$ $+ \frac{4}{9}\sqrt{3}e^5 \otimes e_8 + \frac{4}{9}\sqrt{3}e^6 \otimes e_9$	{1234567, 12789, 1368, 34789, 567, 1234567, 12789, 1368, 34789, 567}
93:7	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{6}e^{14} - \frac{2}{7}\sqrt{3}e^{23}, \frac{2}{7}\sqrt{6}e^{13} + \frac{2}{7}\sqrt{3}e^{24},$ $-\frac{2}{7}\sqrt{6}e^{12} + \frac{2}{7}\sqrt{3}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{5}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{6}{7}\sqrt{2}e^1 \otimes e_5$	{12367, 1237, 16789, 1789, 23456789, 2345789, 2569, 259, 12367, 1237, 16789, 1789, 23456789, 2345789, 2569, 259}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:7	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{6}e^{14} + \frac{2}{7}\sqrt{3}e^{23}, \frac{2}{7}\sqrt{6}e^{13} + \frac{2}{7}\sqrt{3}e^{24},$ $\frac{2}{7}\sqrt{6}e^{12} + \frac{2}{7}\sqrt{3}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{5}{7}, \frac{1}{7}, \frac{2}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{6}{7}\sqrt{2}e^1 \otimes e_5$	{12367, 1237, 12468, 1248, 16789, 1789, 23456789, 2345789, 2569, 259, 3568, 358, 12367, 1237, 12468, 1248, 16789, 1789, 23456789, 2345789, 2569, 259, 3568, 358}
93:7	$0, 0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{14} - \frac{3}{40}\sqrt{123}e^{23}, \frac{1}{40}\sqrt{287}e^{13} + \frac{1}{40}\sqrt{287}e^{24},$ $-\frac{1}{40}\sqrt{287}e^{12} + \frac{1}{40}\sqrt{287}e^{34}$	$(-\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, 1, \frac{3}{20}, -\frac{1}{40}, -\frac{1}{40}, -\frac{1}{40})$ $+ \frac{1}{20}\sqrt{697}e^5 \otimes e_7$	{12345689, 1234589, 12679, 1279, 145, 1456, 5689, 589, 12345689, 1234589, 12679, 1279, 145, 1456, 5689, 589}
93:7	$0, 0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{14} + \frac{3}{40}\sqrt{123}e^{23}, \frac{1}{40}\sqrt{287}e^{13} + \frac{1}{40}\sqrt{287}e^{24},$ $\frac{1}{40}\sqrt{287}e^{12} + \frac{1}{40}\sqrt{287}e^{34}$	$(-\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, 1, \frac{3}{20}, -\frac{1}{40}, -\frac{1}{40}, -\frac{1}{40})$ $+ \frac{1}{20}\sqrt{697}e^5 \otimes e_7$	{12345689, 1234589, 12679, 1279, 13678, 1378, 145, 1456, 5689, 589, 12345689, 1234589, 12679, 1279, 13678, 1378, 145, 1456, 5689, 589}
93:7	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{33}e^{14} - \frac{2}{41}\sqrt{33}e^{23}, \frac{2}{41}\sqrt{33}e^{13} + \frac{2}{41}\sqrt{33}e^{24},$ $-\frac{2}{41}\sqrt{33}e^{12} + \frac{2}{41}\sqrt{33}e^{34}$	$(\frac{5}{41}, \frac{5}{41}, \frac{5}{41}, \frac{5}{41}, 1, -\frac{25}{41}, \frac{10}{41}, \frac{10}{41}, \frac{10}{41})$ $+ \frac{66}{41}e^5 \otimes e_6$	{12345, 12346, 12578, 12678, 5, 6, 12345, 12346, 12578, 12678, 5, 6}
93:7	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{33}e^{14} + \frac{2}{41}\sqrt{33}e^{23}, \frac{2}{41}\sqrt{33}e^{13} + \frac{2}{41}\sqrt{33}e^{24},$ $\frac{2}{41}\sqrt{33}e^{12} + \frac{2}{41}\sqrt{33}e^{34}$	$(\frac{5}{41}, \frac{5}{41}, \frac{5}{41}, \frac{5}{41}, 1, -\frac{25}{41}, \frac{10}{41}, \frac{10}{41}, \frac{10}{41})$ $+ \frac{66}{41}e^5 \otimes e_6$	{12345, 12346, 12578, 12678, 13579, 13679, 5, 6, 12345, 12346, 12578, 12678, 13579, 13679, 5, 6}
93:7	$0, 0, 0, 0, 0, 0, \frac{7}{76}\sqrt{19}e^{14} - \frac{7}{76}\sqrt{19}e^{23}, \frac{7}{76}\sqrt{19}e^{13} + \frac{7}{76}\sqrt{19}e^{24},$ $-\frac{7}{76}\sqrt{15}e^{12} + \frac{7}{76}\sqrt{15}e^{34}$	$(-\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, \frac{21}{38}, \frac{21}{38}, -\frac{7}{76}, -\frac{7}{76}, -\frac{7}{76})$ $+ \frac{7}{38}\sqrt{17}e^5 \otimes e_7 + \frac{7}{38}\sqrt{17}e^6 \otimes e_8$	{1234569, 12789, 1367, 569, 1234569, 12789, 1367, 569}
93:7	$0, 0, 0, 0, 0, 0, \frac{7}{76}\sqrt{19}e^{14} + \frac{7}{76}\sqrt{19}e^{23}, \frac{7}{76}\sqrt{19}e^{13} + \frac{7}{76}\sqrt{19}e^{24},$ $\frac{7}{76}\sqrt{15}e^{12} + \frac{7}{76}\sqrt{15}e^{34}$	$(-\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, -\frac{7}{152}, \frac{21}{38}, \frac{21}{38}, -\frac{7}{76}, -\frac{7}{76}, -\frac{7}{76})$ $+ \frac{7}{38}\sqrt{17}e^5 \otimes e_7 + \frac{7}{38}\sqrt{17}e^6 \otimes e_8$	{1234569, 12789, 1367, 1458, 569, 1234569, 12789, 1367, 1458, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{14}{17}e^{12}, \frac{7}{51}\sqrt{6}e^{13}, \frac{7}{51}\sqrt{34}e^{45}$	$(-\frac{2}{17}, \frac{11}{17}, \frac{4}{17}, -\frac{8}{51}, -\frac{8}{51}, \frac{3}{17}, \frac{9}{17}, \frac{2}{17}, -\frac{16}{51})$ $+ \frac{14}{51}\sqrt{21}e^2 \otimes e_9$	{12, 1234568, 123458, 12368, 1238, 1245, 12456, 126, 1346789, 134789, 14679, 1479, 234567, 23457, 2367, 237, 245678, 24578, 2678, 278, 3469, 349, 4689, 489}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{74630}e^{12}, \frac{1}{1587}\sqrt{304666}e^{13}, \frac{2}{1587}\sqrt{87361}e^{45}$	$(\frac{34}{529}, -\frac{337}{1587}, -\frac{206}{1587}, \frac{68}{529}, \frac{335}{1587}, \frac{47}{529}, -\frac{235}{1587}, -\frac{104}{1587}, \frac{539}{1587})$ $+ \frac{1}{1587}\sqrt{345054}e^1 \otimes e_2 + \frac{1}{1587}\sqrt{404758}e^4 \otimes e_7 + \frac{4}{1587}\sqrt{32486}e^5 \otimes e_8$	{135679, 13579, 1678, 178, 23678, 2378, 25679, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{42}e^{45}$	$(\frac{2}{21}, \frac{1}{7}, \frac{1}{7}, \frac{2}{3}, -\frac{1}{7}, -\frac{13}{21}, \frac{5}{21}, \frac{5}{21}, \frac{11}{21})$ $+ \frac{1}{7}\sqrt{102}e^4 \otimes e_6$	{12345, 12349, 123569, 1236, 12458, 12489, 125689, 1268, 14578, 14789, 156789, 1678, 234578, 234789, 2356789, 23678, 2457, 2479, 25679, 267, 45, 49, 569, 6}
93:8	$0, 0, 0, 0, 0, 0, \frac{15}{1889}\sqrt{2822}e^{12}, \frac{6}{1889}\sqrt{5478}e^{13}, \frac{3}{1889}\sqrt{36022}e^{45}$	$(\frac{198}{1889}, \frac{396}{1889}, -\frac{549}{1889}, -\frac{48}{1889}, -\frac{48}{1889}, \frac{651}{1889}, \frac{594}{1889}, -\frac{351}{1889}, -\frac{96}{1889})$ $+ \frac{6}{1889}\sqrt{20003}e^6 \otimes e_9 + \frac{6}{1889}\sqrt{24319}e^1 \otimes e_3 + \frac{6}{1889}\sqrt{27058}e^2 \otimes e_8$	{145678, 14789, 1678, 34568, 3489, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{186}\sqrt{6545}e^{12}, \frac{1}{186}\sqrt{6545}e^{13}, \frac{1}{186}\sqrt{7854}e^{45}$	$(-\frac{16}{93}, \frac{55}{124}, -\frac{3}{124}, -\frac{5}{93}, -\frac{5}{93}, \frac{33}{62}, \frac{101}{372}, -\frac{73}{372}, -\frac{10}{93})$ $+ \frac{1}{186}\sqrt{20706}e^2 \otimes e_8 + \frac{1}{93}\sqrt{4522}e^6 \otimes e_9$	{123456, 12349, 1236, 145678, 14789, 1678, 24567, 2479, 267, 34568, 3489, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{58}\sqrt{667}e^{12}, \frac{1}{58}\sqrt{667}e^{13}, \frac{1}{29}\sqrt{23}e^{45}$	$(-\frac{23}{58}, \frac{35}{116}, \frac{35}{116}, \frac{2}{29}, \frac{2}{29}, \frac{3}{29}, -\frac{11}{116}, -\frac{11}{116}, \frac{4}{29})$ $+ \frac{1}{29}\sqrt{299}e^2 \otimes e_8 - \frac{1}{29}\sqrt{299}e^3 \otimes e_7$	{123, 12345, 123456, 123469, 12349, 1236, 145678, 14578, 146789, 14789, 1678, 178, 24567, 2457, 24679, 2479, 267, 27}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{58}\sqrt{667}e^{12}, \frac{1}{58}\sqrt{667}e^{13}, \frac{1}{29}\sqrt{23}e^{45}$	$(-\frac{23}{58}, \frac{35}{116}, \frac{35}{116}, \frac{2}{29}, \frac{2}{29}, \frac{3}{29}, -\frac{11}{116}, -\frac{11}{116}, \frac{4}{29})$ $+ \frac{1}{29}\sqrt{299}e^2 \otimes e_8 + \frac{1}{29}\sqrt{299}e^3 \otimes e_7$	{123, 12345, 123456, 123469, 12349, 1236, 145678, 14578, 146789, 14789, 1678, 178, 24567, 2457, 24679, 2479, 267, 27}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{937}\sqrt{2337}e^{12}, \frac{4}{937}\sqrt{3649}e^{13}, \frac{4}{937}\sqrt{6765}e^{45}$	$\left(\frac{178}{937}, \frac{140}{937}, \frac{1}{937}, -\frac{239}{937}, \frac{89}{937}, -\frac{188}{937}, \frac{318}{937}, \frac{179}{937}, -\frac{150}{937}\right) + \frac{328}{937}e^5 \otimes e_4 + \frac{36}{937}\sqrt{205}e^1 \otimes e_9 + \frac{4}{937}\sqrt{11398}e^2 \otimes e_6$	{234789, 235789, 2479, 2579, 34689, 35689, 469, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{4}e^{12}, \frac{3}{4}e^{13}, \frac{3}{8}e^{45}$	$\left(\frac{1}{2}, -\frac{1}{16}, -\frac{1}{16}, \frac{1}{8}, \frac{1}{8}, -\frac{5}{8}, \frac{7}{16}, \frac{7}{16}, \frac{1}{4}\right) + \frac{3}{8}\sqrt{13}e^1 \otimes e_6$	{123, 12345, 12349, 12458, 12489, 128, 14578, 14789, 178, 2345678, 2346789, 23678, 24567, 24679, 267, 456, 469, 6}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{839}\sqrt{3477}e^{12}, \frac{2}{839}\sqrt{13359}e^{13}, \frac{12}{839}\sqrt{854}e^{45}$	$\left(\frac{189}{839}, \frac{200}{839}, -\frac{177}{839}, -\frac{83}{839}, -\frac{83}{839}, \frac{85}{839}, \frac{389}{839}, \frac{12}{839}, -\frac{166}{839}\right) + \frac{2}{839}\sqrt{61305}e^1 \otimes e_3 + \frac{2}{839}\sqrt{76677}e^2 \otimes e_9$	{12, 1245, 12456, 126, 14679, 1479, 234567, 23457, 2367, 237, 3469, 349}
93:8	$0, 0, 0, 0, 0, 0, \frac{9}{371}\sqrt{298}e^{12}, \frac{2}{371}\sqrt{1490}e^{13}, \frac{1}{371}\sqrt{14006}e^{45}$	$\left(\frac{47}{371}, \frac{67}{371}, -\frac{102}{371}, -\frac{2}{53}, \frac{94}{371}, -\frac{82}{371}, \frac{114}{371}, -\frac{55}{371}, \frac{80}{371}\right) + \frac{1}{371}\sqrt{34270}e^1 \otimes e_3 + \frac{1}{371}\sqrt{34270}e^2 \otimes e_6 + \frac{6}{371}\sqrt{894}e^5 \otimes e_8$	{12489, 128, 146789, 1678, 234789, 2378, 34689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{14}{61}\sqrt{3}e^{12}, \frac{14}{61}\sqrt{3}e^{13}, \frac{28}{61}e^{45}$	$\left(\frac{6}{61}, \frac{9}{61}, \frac{9}{61}, \frac{57}{61}, -\frac{41}{61}, \frac{12}{61}, \frac{15}{61}, \frac{15}{61}, \frac{16}{61}\right) + \frac{98}{61}e^4 \otimes e_5$	{123469, 12349, 123569, 12359, 124689, 12489, 125689, 12589, 146789, 14789, 156789, 15789, 2346789, 234789, 2356789, 235789, 24679, 2479, 25679, 2579, 469, 49, 569, 59}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{237}\sqrt{602}e^{12}, \frac{4}{237}\sqrt{645}e^{13}, \frac{2}{237}\sqrt{1634}e^{45}$	$\left(-\frac{52}{237}, \frac{88}{237}, \frac{18}{79}, -\frac{59}{237}, \frac{9}{79}, \frac{22}{237}, \frac{12}{237}, \frac{2}{237}, -\frac{32}{237}\right) + \frac{4}{237}\sqrt{989}e^3 \otimes e_9 + \frac{86}{237}e^5 \otimes e_4 + \frac{8}{237}\sqrt{215}e^2 \otimes e_8$	{146789, 14789, 156789, 15789, 24679, 2479, 25679, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{509}\sqrt{1310}e^{12}, \frac{2}{509}\sqrt{9694}e^{13}, \frac{2}{509}\sqrt{9170}e^{45}$	$\left(\frac{148}{509}, -\frac{114}{509}, -\frac{30}{509}, \frac{105}{509}, -\frac{157}{509}, \frac{210}{509}, \frac{34}{509}, \frac{118}{509}, -\frac{52}{509}\right) + \frac{262}{509}e^4 \otimes e_5 + \frac{2}{509}\sqrt{21746}e^6 \otimes e_9 + \frac{4}{509}\sqrt{5502}e^1 \otimes e_2$	{1349, 1359, 1489, 1589, 23489, 23589, 249, 259}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{1913}\sqrt{10030}e^{12}, \frac{6}{1913}\sqrt{13098}e^{13}, \frac{3}{1913}\sqrt{54398}e^{45}$	$\left(-\frac{360}{1913}, \frac{614}{1913}, \frac{443}{1913}, -\frac{292}{1913}, \frac{204}{1913}, -\frac{327}{1913}, \frac{254}{1913}, \frac{83}{1913}, -\frac{88}{1913}\right) + \frac{12}{1913}\sqrt{3658}e^5 \otimes e_6 + \frac{6}{1913}\sqrt{15635}e^2 \otimes e_8 + \frac{6}{1913}\sqrt{21181}e^3 \otimes e_9$	{12345, 1236, 146789, 15789, 24679, 2579, 3458, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{667}e^{12}, \frac{2}{139}\sqrt{667}e^{13}, \frac{4}{139}\sqrt{23}e^{45}$	$\left(\frac{6}{139}, \frac{35}{139}, -\frac{17}{139}, -\frac{15}{139}, \frac{31}{139}, -\frac{40}{139}, \frac{41}{139}, -\frac{11}{139}, \frac{16}{139}\right) + \frac{46}{139}e^5 \otimes e_4 + \frac{4}{139}\sqrt{299}e^1 \otimes e_6 + \frac{4}{139}\sqrt{299}e^2 \otimes e_8$	{12349, 12359, 14789, 15789, 24679, 25679, 34689, 35689}
93:8	$0, 0, 0, 0, 0, 0, \frac{84}{151}e^{12}, \frac{14}{151}\sqrt{6}e^{13}, \frac{14}{151}\sqrt{34}e^{45}$	$\left(-\frac{12}{151}, \frac{66}{151}, \frac{24}{151}, \frac{33}{151}, -\frac{65}{151}, \frac{18}{151}, \frac{54}{151}, \frac{12}{151}, -\frac{32}{151}\right) + \frac{28}{151}\sqrt{21}e^2 \otimes e_9 + \frac{98}{151}e^4 \otimes e_5$	{1346789, 134789, 1356789, 135789, 14679, 1479, 15679, 1579, 3469, 349, 3569, 359, 4689, 489, 5689, 589}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{77}e^{12}, \frac{1}{65}\sqrt{14}e^{13}, \frac{1}{65}\sqrt{238}e^{45}$	$\left(-\frac{2}{65}, \frac{6}{65}, \frac{6}{65}, -\frac{12}{65}, \frac{11}{65}, -\frac{9}{65}, \frac{4}{65}, \frac{4}{65}, -\frac{1}{65}\right) + \frac{14}{65}e^1 \otimes e_6 + \frac{1}{65}\sqrt{322}e^2 \otimes e_9 + \frac{1}{65}\sqrt{322}e^5 \otimes e_7$	{123458, 1245, 134789, 1479, 2367, 2678, 3569, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{7}{123}\sqrt{38}e^{12}, \frac{7}{123}\sqrt{38}e^{13}, \frac{4}{123}\sqrt{57}e^{45}$	$\left(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, -\frac{1}{123}, \frac{12}{41}, -\frac{8}{123}, -\frac{8}{123}, -\frac{2}{123}\right) + \frac{10}{123}\sqrt{19}e^6 \otimes e_9 + \frac{1}{123}\sqrt{3306}e^2 \otimes e_8 + \frac{1}{123}\sqrt{3306}e^3 \otimes e_7$	{123456, 12349, 1236, 145678, 14789, 1678, 24567, 2479, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{7}{123}\sqrt{38}e^{12}, \frac{7}{123}\sqrt{38}e^{13}, \frac{4}{123}\sqrt{57}e^{45}$	$\left(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, -\frac{1}{123}, \frac{12}{41}, -\frac{8}{123}, -\frac{8}{123}, -\frac{2}{123}\right) + \frac{10}{123}\sqrt{19}e^6 \otimes e_9 + \frac{1}{123}\sqrt{3306}e^2 \otimes e_8 - \frac{1}{123}\sqrt{3306}e^3 \otimes e_7$	{123456, 12349, 1236, 145678, 14789, 1678, 24567, 2479, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{208}\sqrt{1582}e^{12}, \frac{1}{208}\sqrt{4294}e^{13}, \frac{1}{208}\sqrt{1695}e^{45}$	$\left(\frac{57}{416}, \frac{57}{208}, -\frac{13}{32}, \frac{15}{208}, \frac{15}{208}, \frac{45}{416}, \frac{171}{416}, -\frac{7}{26}, \frac{15}{104}\right) + \frac{1}{208}\sqrt{22035}e^2 \otimes e_8 + \frac{1}{52}\sqrt{1243}e^1 \otimes e_3$	{145678, 14578, 146789, 14789, 1678, 178, 34568, 3458, 34689, 3489, 368, 38}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{55158}e^{12}, \frac{4}{811}\sqrt{2219}e^{13}, \frac{2}{811}\sqrt{9510}e^{45}$	$\left(-\frac{56}{811}, -\frac{84}{811}, \frac{118}{811}, \frac{377}{811}, -\frac{257}{811}, \frac{494}{811}, \frac{140}{811}, \frac{62}{811}, \frac{120}{811}\right) + \frac{4}{811}\sqrt{32017}e^6 \otimes e_7 + \frac{634}{811}e^4 \otimes e_5$	{1234689, 1235689, 12469, 12569, 134789, 135789, 1479, 1579, 23479, 23579, 24789, 25789, 3469, 3569, 4689, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{66}e^{12}, \frac{1}{23}\sqrt{66}e^{13}, \frac{1}{23}\sqrt{138}e^{45}$	$\left(\frac{22}{69}, -\frac{1}{23}, -\frac{1}{23}, \frac{10}{69}, -\frac{5}{23}, -\frac{17}{69}, \frac{19}{69}, \frac{19}{69}, -\frac{5}{69}\right) + \frac{5}{23}\sqrt{6}e^4 \otimes e_6 + \frac{6}{23}\sqrt{6}e^1 \otimes e_9$	{12345, 1236, 12458, 1268, 14578, 1678, 234789, 2356789, 2479, 25679, 49, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{304666}e^{12}, \frac{1}{1587}\sqrt{74630}e^{13}, \frac{2}{1587}\sqrt{87361}e^{45}$	$(-\frac{97}{529}, \frac{187}{1587}, \frac{56}{1587}, \frac{335}{1587}, \frac{68}{529}, -\frac{84}{529}, -\frac{104}{1587}, -\frac{235}{1587}, \frac{539}{1587})$ $+\frac{1}{1587}\sqrt{345054}e^2 \otimes e_6 + \frac{1}{1587}\sqrt{404758}e^5 \otimes e_8 + \frac{4}{1587}\sqrt{32486}e^4 \otimes e_7$	{12345, 12489, 135679, 1678, 2378, 2579, 34689, 456}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{511}\sqrt{3477}e^{12}, \frac{1}{511}\sqrt{13359}e^{13}, \frac{6}{511}\sqrt{854}e^{45}$	$(\frac{27}{146}, \frac{100}{511}, -\frac{177}{1022}, -\frac{19}{73}, \frac{50}{511}, \frac{85}{1022}, \frac{389}{1022}, \frac{6}{511}, -\frac{83}{511})$ $+\frac{183}{511}e^5 \otimes e_4 + \frac{1}{511}\sqrt{61305}e^1 \otimes e_3 + \frac{1}{511}\sqrt{76677}e^2 \otimes e_9$	{14679, 1479, 15679, 1579, 3469, 349, 3569, 359}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{2}{313}\sqrt{6501}e^{45}$	$(\frac{66}{313}, -\frac{131}{313}, \frac{6}{313}, \frac{132}{313}, -\frac{27}{313}, \frac{39}{313}, -\frac{65}{313}, \frac{72}{313}, \frac{105}{313})$ $+\frac{1}{313}\sqrt{45310}e^1 \otimes e_2 + \frac{1}{313}\sqrt{62646}e^4 \otimes e_7$	{135679, 13579, 1367, 137, 156789, 15789, 1678, 178, 2356789, 235789, 23678, 2378, 25679, 2579, 267, 27}
93:8	$0, 0, 0, 0, 0, 0, \frac{22}{63}\sqrt{2}e^{12}, \frac{44}{567}\sqrt{10}e^{13}, \frac{22}{567}\sqrt{14}e^{45}$	$(\frac{122}{567}, \frac{82}{567}, -\frac{40}{189}, -\frac{31}{189}, \frac{149}{567}, -\frac{160}{567}, \frac{68}{189}, \frac{2}{567}, \frac{8}{81})$ $+\frac{22}{567}\sqrt{202}e^1 \otimes e_3 + \frac{22}{567}\sqrt{202}e^2 \otimes e_6 + \frac{242}{567}e^5 \otimes e_4$	{1249, 1259, 14679, 15679, 23479, 23579, 3469, 3569}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{72098}e^{12}, \frac{1}{1673}\sqrt{108758}e^{13}, \frac{3}{239}\sqrt{1222}e^{45}$	$(\frac{178}{1673}, -\frac{433}{1673}, \frac{64}{1673}, \frac{34}{239}, \frac{356}{1673}, -\frac{373}{1673}, -\frac{255}{1673}, \frac{242}{1673}, \frac{594}{1673})$ $+\frac{10}{1673}\sqrt{4277}e^1 \otimes e_2 + \frac{2}{1673}\sqrt{160693}e^4 \otimes e_6 + \frac{2}{1673}\sqrt{196742}e^5 \otimes e_7$	{13479, 1367, 14789, 1678, 234789, 23678, 2479, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{1}{313}\sqrt{21670}e^{13}, \frac{2}{313}\sqrt{6501}e^{45}$	$(-\frac{49}{313}, \frac{121}{313}, -\frac{16}{313}, \frac{132}{313}, -\frac{27}{313}, -\frac{76}{313}, \frac{72}{313}, -\frac{65}{313}, \frac{105}{313})$ $+\frac{1}{313}\sqrt{45310}e^2 \otimes e_6 + \frac{1}{313}\sqrt{62646}e^4 \otimes e_8$	{12345, 12349, 12589, 128, 134567, 134679, 156789, 1678, 235789, 2378, 2457, 2479, 35689, 368, 456, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{7}{123}\sqrt{38}e^{12}, \frac{7}{123}\sqrt{38}e^{13}, \frac{4}{123}\sqrt{57}e^{45}$	$(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, \frac{8}{41}, -\frac{14}{123}, -\frac{8}{123}, -\frac{8}{123}, \frac{23}{123})$ $+\frac{10}{123}\sqrt{19}e^5 \otimes e_6 + \frac{1}{123}\sqrt{3306}e^2 \otimes e_8 - \frac{1}{123}\sqrt{3306}e^3 \otimes e_7$	{12345, 123469, 12359, 1236, 14578, 146789, 15789, 1678, 2457, 24679, 2579, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{7}{123}\sqrt{38}e^{12}, \frac{7}{123}\sqrt{38}e^{13}, \frac{4}{123}\sqrt{57}e^{45}$	$(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, -\frac{1}{123}, \frac{8}{41}, -\frac{14}{123}, -\frac{8}{123}, -\frac{8}{123}, \frac{23}{123})$ $+\frac{10}{123}\sqrt{19}e^5 \otimes e_6 + \frac{1}{123}\sqrt{3306}e^2 \otimes e_8 + \frac{1}{123}\sqrt{3306}e^3 \otimes e_7$	{12345, 123469, 12359, 1236, 14578, 146789, 15789, 1678, 2457, 24679, 2579, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{99}{223}\sqrt{2}e^{12}, \frac{22}{223}\sqrt{10}e^{13}, \frac{11}{223}\sqrt{14}e^{45}$	$(\frac{61}{223}, \frac{41}{223}, -\frac{60}{223}, \frac{14}{223}, \frac{14}{223}, -\frac{80}{223}, \frac{102}{223}, \frac{1}{223}, \frac{28}{223})$ $+\frac{11}{223}\sqrt{202}e^1 \otimes e_3 + \frac{11}{223}\sqrt{202}e^2 \otimes e_6$	{12, 1245, 1249, 14567, 14679, 167, 23457, 23479, 237, 3456, 3469, 36}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{667}e^{12}, \frac{2}{139}\sqrt{667}e^{13}, \frac{4}{139}\sqrt{23}e^{45}$	$(-\frac{46}{139}, \frac{35}{139}, \frac{35}{139}, -\frac{15}{139}, \frac{31}{139}, \frac{12}{139}, -\frac{11}{139}, -\frac{11}{139}, \frac{16}{139})$ $+\frac{46}{139}e^5 \otimes e_4 + \frac{4}{139}\sqrt{299}e^2 \otimes e_8 - \frac{4}{139}\sqrt{299}e^3 \otimes e_7$	{123469, 12349, 123569, 12359, 146789, 14789, 156789, 15789, 24679, 2479, 25679, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{667}e^{12}, \frac{2}{139}\sqrt{667}e^{13}, \frac{4}{139}\sqrt{23}e^{45}$	$(-\frac{46}{139}, \frac{35}{139}, \frac{35}{139}, -\frac{15}{139}, \frac{31}{139}, \frac{12}{139}, -\frac{11}{139}, -\frac{11}{139}, \frac{16}{139})$ $+\frac{46}{139}e^5 \otimes e_4 + \frac{4}{139}\sqrt{299}e^2 \otimes e_8 + \frac{4}{139}\sqrt{299}e^3 \otimes e_7$	{123469, 12349, 123569, 12359, 146789, 14789, 156789, 15789, 24679, 2479, 25679, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{21}{1681}\sqrt{638}e^{12}, \frac{14}{1681}\sqrt{1870}e^{13}, \frac{7}{1681}\sqrt{5214}e^{45}$	$(-\frac{448}{1681}, \frac{462}{1681}, \frac{371}{1681}, -\frac{84}{1681}, -\frac{84}{1681}, \frac{553}{1681}, \frac{14}{1681}, -\frac{77}{1681}, -\frac{168}{1681})$ $+\frac{140}{1681}\sqrt{22}e^6 \otimes e_7 + \frac{14}{1681}\sqrt{3135}e^2 \otimes e_8 + \frac{42}{1681}\sqrt{341}e^3 \otimes e_9$	{123456, 1236, 14789, 2479, 34568, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{208}\sqrt{1582}e^{12}, \frac{1}{208}\sqrt{4294}e^{13}, \frac{1}{208}\sqrt{1695}e^{45}$	$(-\frac{119}{416}, \frac{57}{208}, \frac{7}{416}, \frac{15}{208}, \frac{15}{208}, \frac{17}{32}, -\frac{5}{416}, -\frac{7}{26}, \frac{15}{104})$ $+\frac{1}{208}\sqrt{22035}e^2 \otimes e_8 + \frac{1}{52}\sqrt{1243}e^6 \otimes e_7$	{123456, 123469, 1236, 14578, 14789, 178, 2457, 2479, 27, 34568, 34689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{2}{313}\sqrt{6501}e^{45}$	$(-\frac{49}{313}, -\frac{16}{313}, \frac{6}{313}, \frac{132}{313}, -\frac{27}{313}, \frac{154}{313}, -\frac{65}{313}, -\frac{43}{313}, \frac{105}{313})$ $+\frac{1}{313}\sqrt{45310}e^6 \otimes e_8 + \frac{1}{313}\sqrt{62646}e^4 \otimes e_7$	{123456, 123469, 12458, 12489, 135679, 1367, 15789, 178, 235789, 2378, 25679, 267, 3458, 3489, 456, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{518}\sqrt{39198}e^{12}, \frac{1}{518}\sqrt{9165}e^{13}, \frac{3}{259}\sqrt{987}e^{45}$	$(\frac{75}{518}, \frac{211}{1036}, -\frac{33}{259}, -\frac{169}{1036}, \frac{7}{74}, -\frac{46}{259}, \frac{361}{1036}, \frac{9}{518}, -\frac{71}{1036})$ $+\frac{1}{259}\sqrt{9870}e^1 \otimes e_3 + \frac{1}{518}\sqrt{57246}e^2 \otimes e_9 + \frac{3}{518}\sqrt{4183}e^5 \otimes e_6$	{1245, 126, 14679, 1579, 23457, 2367, 3469, 359}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{811}\sqrt{2219}e^{12}, \frac{2}{811}\sqrt{55158}e^{13}, \frac{2}{811}\sqrt{9510}e^{45}$	$(\frac{348}{811}, -\frac{286}{811}, -\frac{84}{811}, \frac{377}{811}, -\frac{257}{811}, \frac{90}{811}, \frac{62}{811}, \frac{264}{811}, \frac{120}{811})$ $+\frac{4}{811}\sqrt{32017}e^1 \otimes e_2 + \frac{634}{811}e^4 \otimes e_5$	{13469, 1349, 13569, 1359, 14689, 1489, 15689, 1589, 234689, 23489, 235689, 23589, 2469, 249, 2569, 259}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{55158}e^{12}, \frac{2}{247}\sqrt{2219}e^{13}, \frac{1}{247}\sqrt{9510}e^{45}$	$(-\frac{28}{247}, -\frac{42}{247}, \frac{59}{247}, \frac{30}{247}, \frac{30}{247}, 1, -\frac{70}{247}, \frac{31}{247}, \frac{60}{247})$ $+\frac{2}{247}\sqrt{32017}e^6 \otimes e_7$	{1234568, 1234689, 12368, 12456, 12469, 126, 134578, 134789, 1378, 1457, 1479, 17, 23457, 23479, 237, 24578, 24789, 278, 3456, 3469, 36, 4568, 4689, 68}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{247}\sqrt{2219}e^{12}, \frac{1}{247}\sqrt{55158}e^{13}, \frac{1}{247}\sqrt{9510}e^{45}$	$(\frac{174}{247}, -\frac{11}{19}, -\frac{42}{247}, \frac{30}{247}, \frac{30}{247}, \frac{45}{247}, \frac{31}{247}, \frac{132}{247}, \frac{60}{247})$ $+\frac{2}{247}\sqrt{32017}e^1 \otimes e_2$	{13, 1345, 13456, 13469, 1349, 136, 14568, 1458, 14689, 1489, 168, 18, 2, 234568, 23458, 234689, 23489, 2368, 238, 245, 2456, 2469, 249, 26}
93:8	$0, 0, 0, 0, 0, 0, \frac{6}{499}\sqrt{763}e^{12}, \frac{6}{499}\sqrt{763}e^{13}, \frac{12}{499}\sqrt{154}e^{45}$	$(\frac{46}{499}, \frac{111}{499}, -\frac{61}{499}, -\frac{103}{499}, \frac{23}{499}, \frac{48}{499}, \frac{157}{499}, -\frac{15}{499}, -\frac{80}{499})$ $+\frac{126}{499}e^5 \otimes e_4 + \frac{12}{499}\sqrt{301}e^2 \otimes e_8 + \frac{36}{499}\sqrt{42}e^1 \otimes e_9$	{24679, 2479, 25679, 2579, 34689, 3489, 35689, 3589}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{229}\sqrt{170}e^{12}, \frac{8}{229}\sqrt{170}e^{13}, \frac{6}{229}\sqrt{85}e^{45}$	$(\frac{64}{229}, -\frac{106}{229}, -\frac{5}{229}, \frac{18}{229}, \frac{18}{229}, \frac{128}{229}, -\frac{42}{229}, \frac{59}{229}, \frac{36}{229})$ $+\frac{2}{229}\sqrt{8585}e^1 \otimes e_2 + \frac{2}{229}\sqrt{8585}e^6 \otimes e_7$	{13457, 13479, 137, 14578, 14789, 178, 234578, 234789, 2378, 2457, 2479, 27}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{237}\sqrt{645}e^{12}, \frac{2}{237}\sqrt{602}e^{13}, \frac{2}{237}\sqrt{1634}e^{45}$	$(\frac{28}{237}, \frac{18}{237}, \frac{8}{237}, -\frac{59}{237}, \frac{9}{237}, -\frac{58}{237}, \frac{82}{237}, \frac{12}{237}, -\frac{32}{237})$ $+\frac{4}{237}\sqrt{989}e^2 \otimes e_9 + \frac{86}{237}e^5 \otimes e_4 + \frac{8}{237}\sqrt{215}e^1 \otimes e_6$	{13479, 13579, 14789, 15789, 34689, 35689, 469, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{839}\sqrt{3477}e^{12}, \frac{2}{839}\sqrt{13359}e^{13}, \frac{12}{839}\sqrt{854}e^{45}$	$(-\frac{146}{839}, \frac{200}{839}, \frac{158}{839}, -\frac{83}{839}, -\frac{83}{839}, \frac{420}{839}, \frac{54}{839}, \frac{12}{839}, -\frac{166}{839})$ $+\frac{2}{839}\sqrt{61305}e^6 \otimes e_7 + \frac{2}{839}\sqrt{76677}e^2 \otimes e_9$	{1234568, 12368, 12456, 126, 134789, 1479, 23457, 237, 24578, 278, 3469, 4689}
93:8	$0, 0, 0, 0, 0, 0, \frac{7}{592}\sqrt{434}e^{12}, \frac{7}{592}\sqrt{118}e^{13}, \frac{21}{592}\sqrt{34}e^{45}$	$(\frac{15}{592}, \frac{65}{1184}, -\frac{17}{296}, -\frac{113}{592}, \frac{193}{1184}, \frac{5}{74}, \frac{95}{1184}, -\frac{19}{592}, -\frac{33}{1184})$ $+\frac{7}{592}\sqrt{266}e^1 \otimes e_3 + \frac{7}{592}\sqrt{419}e^2 \otimes e_9 + \frac{7}{592}\sqrt{419}e^5 \otimes e_7$	{1245, 12456, 14679, 1479, 2367, 237, 3569, 359}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{937}\sqrt{2337}e^{12}, \frac{4}{937}\sqrt{3649}e^{13}, \frac{4}{937}\sqrt{6765}e^{45}$	$(\frac{178}{937}, -\frac{138}{937}, \frac{1}{937}, \frac{89}{937}, -\frac{239}{937}, \frac{368}{937}, \frac{40}{937}, \frac{179}{937}, -\frac{150}{937})$ $+\frac{328}{937}e^4 \otimes e_5 + \frac{36}{937}\sqrt{205}e^1 \otimes e_9 + \frac{4}{937}\sqrt{11398}e^6 \otimes e_7$	{234789, 235789, 2479, 2579, 34689, 35689, 469, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{839}\sqrt{3477}e^{12}, \frac{2}{839}\sqrt{13359}e^{13}, \frac{12}{839}\sqrt{854}e^{45}$	$(-\frac{146}{839}, \frac{116}{839}, \frac{158}{839}, \frac{336}{839}, -\frac{83}{839}, -\frac{250}{839}, -\frac{30}{839}, \frac{12}{839}, \frac{253}{839})$ $+\frac{2}{839}\sqrt{61305}e^2 \otimes e_6 + \frac{2}{839}\sqrt{76677}e^4 \otimes e_7$	{123458, 123489, 1245, 1249, 1356789, 13678, 15679, 167, 23579, 237, 25789, 278, 3456, 3469, 4568, 4689}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{773}\sqrt{2337}e^{12}, \frac{4}{773}\sqrt{3649}e^{13}, \frac{4}{773}\sqrt{6765}e^{45}$	$(\frac{178}{773}, -\frac{138}{773}, \frac{1}{773}, -\frac{75}{773}, -\frac{75}{773}, \frac{368}{773}, \frac{40}{773}, \frac{179}{773}, -\frac{150}{773})$ $+\frac{36}{773}\sqrt{205}e^1 \otimes e_9 + \frac{4}{773}\sqrt{11398}e^6 \otimes e_7$	{123456, 1236, 124568, 1268, 13457, 137, 14578, 178, 234789, 2479, 34689, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{8}{773}\sqrt{2337}e^{12}, \frac{4}{773}\sqrt{3649}e^{13}, \frac{4}{773}\sqrt{6765}e^{45}$	$(\frac{178}{773}, \frac{140}{773}, \frac{1}{773}, -\frac{75}{773}, -\frac{75}{773}, -\frac{188}{773}, \frac{318}{773}, \frac{179}{773}, -\frac{150}{773})$ $+\frac{36}{773}\sqrt{205}e^1 \otimes e_9 + \frac{4}{773}\sqrt{11398}e^2 \otimes e_6$	{123, 12345, 12458, 128, 134567, 1367, 145678, 1678, 234789, 2479, 34689, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{20}{73}e^{12}, \frac{20}{73}e^{13}, \frac{4}{73}\sqrt{35}e^{45}$	$(\frac{2}{73}, \frac{17}{73}, -\frac{6}{73}, -\frac{11}{73}, \frac{12}{73}, -\frac{14}{73}, \frac{19}{73}, -\frac{4}{73}, \frac{1}{73})$ $+\frac{4}{73}\sqrt{41}e^1 \otimes e_6 + \frac{4}{73}\sqrt{46}e^2 \otimes e_9 + \frac{4}{73}\sqrt{46}e^5 \otimes e_8$	{12345, 128, 13579, 14789, 23678, 24567, 34689, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{189}\sqrt{1310}e^{12}, \frac{1}{189}\sqrt{9694}e^{13}, \frac{1}{189}\sqrt{9170}e^{45}$	$(\frac{74}{189}, -\frac{19}{63}, -\frac{5}{63}, -\frac{13}{189}, -\frac{13}{189}, \frac{5}{9}, \frac{17}{189}, \frac{59}{189}, -\frac{26}{189})$ $+\frac{1}{189}\sqrt{21746}e^6 \otimes e_9 + \frac{2}{189}\sqrt{5502}e^1 \otimes e_2$	{13456, 1349, 136, 14568, 1489, 168, 234568, 23489, 2368, 2456, 249, 26}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{839}\sqrt{13359}e^{12}, \frac{8}{839}\sqrt{3477}e^{13}, \frac{12}{839}\sqrt{854}e^{45}$	$(\frac{189}{839}, -\frac{177}{839}, -\frac{219}{839}, \frac{336}{839}, -\frac{83}{839}, \frac{85}{839}, \frac{12}{839}, -\frac{30}{839}, \frac{253}{839})$ $+\frac{2}{839}\sqrt{61305}e^1 \otimes e_2 + \frac{2}{839}\sqrt{76677}e^4 \otimes e_8$	{1345, 13456, 13469, 1349, 15689, 1589, 168, 18, 235689, 23589, 2368, 238, 245, 2456, 2469, 249}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{13002}e^{12}, \frac{2}{823}\sqrt{21670}e^{13}, \frac{4}{823}\sqrt{6501}e^{45}$	$(-\frac{98}{823}, \frac{242}{823}, \frac{286}{823}, -\frac{251}{823}, \frac{143}{823}, -\frac{152}{823}, \frac{144}{823}, \frac{188}{823}, -\frac{108}{823})$ $+\frac{2}{823}\sqrt{45310}e^2 \otimes e_6 + \frac{2}{823}\sqrt{62646}e^3 \otimes e_9 + \frac{394}{823}e^5 \otimes e_4$	{12489, 12589, 146789, 156789, 2479, 2579, 469, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, \frac{1}{2101}\sqrt{293898}e^{12}, \frac{4}{2101}\sqrt{2409}e^{13}, \frac{12}{2101}\sqrt{1679}e^{45}$	$(\frac{16}{191}, -\frac{56}{2101}, \frac{82}{2101}, -\frac{2}{11}, \frac{339}{2101}, -\frac{25}{191}, \frac{120}{2101}, \frac{258}{2101}, -\frac{43}{2101})$ $+ \frac{1}{2101}\sqrt{194910}e^2 \otimes e_6 + \frac{1}{2101}\sqrt{315798}e^5 \otimes e_7 + \frac{3}{2101}\sqrt{37230}e^1 \otimes e_9$	{12345, 12458, 1367, 1678, 234789, 2479, 35689, 569}
93:8	$0, 0, 0, 0, 0, \frac{2}{97}\sqrt{645}e^{12}, \frac{1}{97}\sqrt{602}e^{13}, \frac{1}{97}\sqrt{1634}e^{45}$	$(\frac{14}{97}, -\frac{19}{97}, \frac{4}{97}, \frac{38}{97}, -\frac{8}{97}, -\frac{29}{97}, -\frac{5}{97}, \frac{18}{97}, \frac{30}{97})$ $+ \frac{2}{97}\sqrt{989}e^4 \otimes e_7 + \frac{4}{97}\sqrt{215}e^1 \otimes e_6$	{12345, 12349, 12458, 12489, 13579, 137, 15789, 178, 2356789, 23678, 25679, 267, 34568, 34689, 456, 469}
93:8	$0, 0, 0, 0, 0, \frac{3}{208}\sqrt{1582}e^{12}, \frac{1}{208}\sqrt{4294}e^{13}, \frac{1}{208}\sqrt{1695}e^{45}$	$(-\frac{119}{416}, \frac{95}{416}, \frac{101}{208}, \frac{15}{208}, \frac{15}{208}, -\frac{131}{416}, -\frac{3}{52}, \frac{83}{416}, \frac{15}{104})$ $+ \frac{1}{208}\sqrt{22035}e^3 \otimes e_7 + \frac{1}{52}\sqrt{1243}e^2 \otimes e_6$	{123, 12345, 12349, 145678, 146789, 1678, 2457, 2479, 27, 34568, 34689, 368}
93:8	$0, 0, 0, 0, 0, \frac{7}{379}\sqrt{66}e^{12}, \frac{2}{379}\sqrt{4774}e^{13}, \frac{3}{379}\sqrt{2002}e^{45}$	$(-\frac{70}{379}, \frac{82}{379}, \frac{68}{379}, -\frac{84}{379}, \frac{75}{379}, \frac{5}{379}, \frac{12}{379}, -\frac{2}{379}, -\frac{9}{379})$ $+ \frac{14}{379}\sqrt{22}e^2 \otimes e_6 + \frac{1}{379}\sqrt{24486}e^3 \otimes e_9 + \frac{1}{379}\sqrt{24486}e^5 \otimes e_8$	{123457, 124789, 13456, 14689, 238, 259, 3678, 5679}
93:8	$0, 0, 0, 0, 0, \frac{7}{228}\sqrt{57}e^{12}, \frac{7}{152}\sqrt{2}e^{13}, \frac{7}{114}\sqrt{19}e^{45}$	$(-\frac{29}{152}, \frac{53}{304}, \frac{9}{152}, \frac{83}{912}, -\frac{11}{456}, \frac{3}{38}, -\frac{5}{304}, -\frac{5}{38}, \frac{61}{912})$ $+ \frac{7}{152}\sqrt{35}e^2 \otimes e_9 + \frac{7}{152}\sqrt{35}e^4 \otimes e_7 + \frac{7}{456}\sqrt{210}e^5 \otimes e_8$	{12345, 123456, 135679, 13579, 23678, 2378, 34689, 3489}
93:8	$0, 0, 0, 0, 0, \frac{20}{507}\sqrt{47}e^{12}, \frac{20}{507}\sqrt{47}e^{13}, \frac{4}{507}\sqrt{1410}e^{45}$	$(\frac{53}{507}, \frac{31}{169}, -\frac{18}{169}, -\frac{74}{507}, \frac{11}{169}, -\frac{61}{507}, \frac{146}{507}, -\frac{1}{507}, -\frac{41}{507})$ $+ \frac{14}{507}\sqrt{141}e^2 \otimes e_8 + \frac{2}{169}\sqrt{1081}e^1 \otimes e_9 + \frac{2}{507}\sqrt{5029}e^5 \otimes e_6$	{12345, 1236, 14578, 1678, 24679, 2579, 34689, 3589}
93:8	$0, 0, 0, 0, 0, \frac{6}{1913}\sqrt{13098}e^{12}, \frac{3}{1913}\sqrt{10030}e^{13}, \frac{3}{1913}\sqrt{54398}e^{45}$	$(-\frac{360}{1913}, \frac{255}{1913}, \frac{84}{1913}, \frac{426}{1913}, -\frac{292}{1913}, \frac{665}{1913}, -\frac{105}{1913}, -\frac{276}{1913}, \frac{134}{1913})$ $+ \frac{12}{1913}\sqrt{3658}e^6 \otimes e_9 + \frac{6}{1913}\sqrt{15635}e^2 \otimes e_8 + \frac{6}{1913}\sqrt{21181}e^4 \otimes e_7$	{123456, 12349, 15789, 1678, 2579, 267, 34568, 3489}
93:8	$0, 0, 0, 0, 0, \frac{3}{218}\sqrt{763}e^{12}, \frac{3}{218}\sqrt{763}e^{13}, \frac{3}{109}\sqrt{154}e^{45}$	$(\frac{23}{218}, \frac{111}{436}, -\frac{61}{436}, -\frac{10}{109}, -\frac{10}{109}, \frac{12}{109}, \frac{157}{436}, -\frac{15}{436}, -\frac{20}{109})$ $+ \frac{3}{109}\sqrt{301}e^2 \otimes e_8 + \frac{9}{109}\sqrt{42}e^1 \otimes e_9$	{123, 12345, 123456, 1236, 145678, 14578, 1678, 178, 24679, 2479, 34689, 3489}
93:8	$0, 0, 0, 0, 0, \frac{1}{189}\sqrt{1310}e^{12}, \frac{1}{189}\sqrt{9694}e^{13}, \frac{1}{189}\sqrt{9170}e^{45}$	$(\frac{74}{189}, -\frac{19}{63}, -\frac{5}{63}, \frac{10}{27}, -\frac{13}{189}, -\frac{61}{189}, \frac{17}{189}, \frac{59}{189}, \frac{19}{63})$ $+ \frac{1}{189}\sqrt{21746}e^4 \otimes e_6 + \frac{2}{189}\sqrt{5502}e^1 \otimes e_2$	{1345, 1349, 13569, 136, 1458, 1489, 15689, 168, 23458, 23489, 235689, 2368, 245, 249, 2569, 26}
93:8	$0, 0, 0, 0, 0, \frac{2}{33}\sqrt{42}e^{12}, \frac{1}{33}\sqrt{42}e^{13}, \frac{1}{33}\sqrt{154}e^{45}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{7}{33}, -\frac{8}{33}, \frac{1}{11}, 0, 0, -\frac{1}{33})$ $+ \frac{1}{33}\sqrt{210}e^2 \otimes e_9 + \frac{1}{33}\sqrt{210}e^4 \otimes e_7$	{1234568, 123458, 1245, 12456, 1356789, 135789, 15679, 1579, 2367, 237, 2678, 278, 3469, 349, 4689, 489}
93:8	$0, 0, 0, 0, 0, \frac{2}{1673}\sqrt{72098}e^{12}, \frac{1}{1673}\sqrt{108758}e^{13}, \frac{3}{239}\sqrt{1222}e^{45}$	$(\frac{178}{1673}, -\frac{433}{1673}, \frac{64}{1673}, \frac{356}{1673}, -\frac{288}{1673}, \frac{97}{239}, -\frac{255}{1673}, \frac{242}{1673}, \frac{68}{1673})$ $+ \frac{10}{1673}\sqrt{4277}e^1 \otimes e_2 + \frac{2}{1673}\sqrt{160693}e^6 \otimes e_9 + \frac{2}{1673}\sqrt{196742}e^4 \otimes e_7$	{13579, 1367, 15789, 1678, 235789, 23678, 2579, 267}
93:8	$0, 0, 0, 0, 0, \frac{20}{73}e^{12}, \frac{20}{73}e^{13}, \frac{4}{73}\sqrt{35}e^{45}$	$(\frac{2}{73}, -\frac{6}{73}, -\frac{6}{73}, \frac{12}{73}, \frac{12}{73}, -\frac{14}{73}, -\frac{4}{73}, -\frac{4}{73}, \frac{24}{73})$ $+ \frac{4}{73}\sqrt{41}e^1 \otimes e_6 + \frac{4}{73}\sqrt{46}e^4 \otimes e_7 + \frac{4}{73}\sqrt{46}e^5 \otimes e_8$	{12345, 12489, 178, 23678, 25679, 456}
93:8	$0, 0, 0, 0, 0, \frac{1}{97}\sqrt{602}e^{12}, \frac{2}{97}\sqrt{645}e^{13}, \frac{1}{97}\sqrt{1634}e^{45}$	$(-\frac{26}{97}, \frac{44}{97}, \frac{27}{97}, -\frac{8}{97}, -\frac{8}{97}, \frac{11}{97}, \frac{18}{97}, \frac{1}{97}, -\frac{16}{97})$ $+ \frac{2}{97}\sqrt{989}e^3 \otimes e_9 + \frac{4}{97}\sqrt{215}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 146789, 14789, 24679, 2479, 34568, 3458, 368, 38}
93:8	$0, 0, 0, 0, 0, \frac{1}{1571}\sqrt{3498}e^{12}, \frac{5}{1571}\sqrt{19822}e^{13}, \frac{2}{1571}\sqrt{75207}e^{45}$	$(\frac{217}{1571}, -\frac{366}{1571}, -\frac{284}{1571}, \frac{516}{1571}, -\frac{117}{1571}, \frac{434}{1571}, -\frac{149}{1571}, -\frac{67}{1571}, \frac{399}{1571})$ $+ \frac{12}{1571}\sqrt{4081}e^1 \otimes e_2 + \frac{1}{1571}\sqrt{341638}e^6 \otimes e_7 + \frac{1}{1571}\sqrt{738078}e^4 \otimes e_8$	{13457, 13479, 15789, 178, 235789, 2378, 2457, 2479}
93:8	$0, 0, 0, 0, 0, \frac{2}{823}\sqrt{21670}e^{12}, \frac{2}{823}\sqrt{13002}e^{13}, \frac{4}{823}\sqrt{6501}e^{45}$	$(-\frac{98}{823}, \frac{286}{823}, \frac{12}{823}, \frac{143}{823}, \frac{251}{823}, \frac{308}{823}, \frac{188}{823}, -\frac{86}{823}, -\frac{108}{823})$ $+ \frac{2}{823}\sqrt{45310}e^6 \otimes e_8 + \frac{2}{823}\sqrt{62646}e^2 \otimes e_9 + \frac{394}{823}e^4 \otimes e_5$	{134679, 135679, 14789, 15789, 3489, 3589, 469, 569}
93:8	$0, 0, 0, 0, 0, \frac{1}{2137}\sqrt{170970}e^{12}, \frac{2}{2137}\sqrt{20294}e^{13}, \frac{2}{2137}\sqrt{37391}e^{45}$	$(\frac{61}{2137}, \frac{84}{2137}, -\frac{116}{2137}, -\frac{362}{2137}, \frac{284}{2137}, \frac{176}{2137}, \frac{145}{2137}, -\frac{55}{2137}, -\frac{78}{2137})$ $+ \frac{12}{2137}\sqrt{1529}e^1 \otimes e_9 + \frac{1}{2137}\sqrt{145394}e^2 \otimes e_8 + \frac{2}{2137}\sqrt{44897}e^5 \otimes e_7$	{12345, 123456, 1678, 178, 24679, 2479, 35689, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{14}{17}e^{12}, \frac{7}{51}\sqrt{6}e^{13}, \frac{7}{51}\sqrt{34}e^{45}$	$(-\frac{2}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{2}{3}, -\frac{8}{51}, \frac{3}{17}, -\frac{5}{17}, \frac{2}{17}, \frac{26}{51})$ $+\frac{14}{51}\sqrt{21}e^4 \otimes e_7$	{1234568, 123458, 1234689, 123489, 1245, 12456, 12469, 1249, 1356789, 135789, 13678, 1378, 15679, 1579, 167, 17, 235679, 23579, 2367, 237, 256789, 25789, 2678, 278, 345, 3456, 3469, 349, 4568, 458, 4689, 489}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{287}\sqrt{667}e^{12}, \frac{4}{861}\sqrt{1794}e^{13}, \frac{4}{861}\sqrt{6601}e^{45}$	$(\frac{52}{287}, -\frac{57}{287}, \frac{4}{287}, \frac{169}{861}, -\frac{197}{861}, \frac{30}{287}, -\frac{5}{287}, \frac{8}{41}, -\frac{4}{123})$ $+\frac{12}{287}\sqrt{115}e^1 \otimes e_9 + \frac{4}{861}\sqrt{8418}e^4 \otimes e_7$	{12345, 123456, 124568, 12458, 1367, 137, 1678, 178, 2356789, 235789, 25679, 2579, 34689, 3489, 469, 49}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{491}\sqrt{6545}e^{12}, \frac{2}{491}\sqrt{6545}e^{13}, \frac{2}{491}\sqrt{7854}e^{45}$	$(-\frac{64}{491}, \frac{165}{491}, -\frac{9}{491}, \frac{99}{491}, -\frac{139}{491}, \frac{198}{491}, \frac{101}{491}, -\frac{73}{491}, -\frac{40}{491})$ $+\frac{238}{491}e^4 \otimes e_5 + \frac{2}{491}\sqrt{20706}e^2 \otimes e_8 + \frac{4}{491}\sqrt{4522}e^6 \otimes e_9$	{12349, 12359, 14789, 15789, 2479, 2579, 3489, 3589}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{6}e^{12}, \frac{2}{23}\sqrt{6}e^{13}, \frac{2}{23}\sqrt{42}e^{45}$	$(\frac{4}{69}, \frac{2}{23}, \frac{2}{23}, \frac{7}{23}, -\frac{11}{23}, \frac{14}{23}, \frac{10}{69}, \frac{10}{69}, -\frac{4}{23})$ $+\frac{18}{23}e^4 \otimes e_5 + \frac{2}{23}\sqrt{102}e^6 \otimes e_9$	{12349, 12359, 12489, 12589, 14789, 15789, 234789, 235789, 2479, 2579, 49, 59}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{4}e^{12}, \frac{3}{4}e^{13}, \frac{3}{8}e^{45}$	$(-\frac{5}{16}, \frac{3}{4}, -\frac{1}{16}, \frac{1}{8}, \frac{1}{8}, \frac{3}{16}, \frac{7}{16}, -\frac{3}{8}, \frac{1}{4})$ $+\frac{3}{8}\sqrt{13}e^2 \otimes e_8$	{123, 12345, 123456, 123469, 12349, 1236, 145678, 14578, 146789, 14789, 1678, 178, 24567, 2457, 24679, 2479, 267, 27, 34568, 3458, 34689, 3489, 368, 38}
93:8	$0, 0, 0, 0, 0, 0, \frac{6}{529}\sqrt{1582}e^{12}, \frac{2}{529}\sqrt{4294}e^{13}, \frac{2}{529}\sqrt{1695}e^{45}$	$(-\frac{119}{529}, \frac{114}{529}, \frac{7}{529}, \frac{143}{529}, -\frac{83}{529}, \frac{221}{529}, -\frac{5}{529}, -\frac{112}{529}, \frac{60}{529})$ $+\frac{226}{529}e^4 \otimes e_5 + \frac{2}{529}\sqrt{22035}e^2 \otimes e_8 + \frac{8}{529}\sqrt{1243}e^6 \otimes e_7$	{123469, 123569, 14789, 15789, 2479, 2579, 34689, 35689}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{2081}\sqrt{661710}e^{12}, \frac{2}{2081}\sqrt{6279}e^{13}, \frac{30}{2081}\sqrt{322}e^{45}$	$(\frac{39}{2081}, \frac{78}{2081}, -\frac{444}{2081}, -\frac{134}{2081}, \frac{600}{2081}, \frac{166}{2081}, \frac{117}{2081}, -\frac{405}{2081}, \frac{466}{2081})$ $+\frac{2}{2081}\sqrt{177261}e^5 \otimes e_7 + \frac{3}{2081}\sqrt{64078}e^2 \otimes e_8 + \frac{4}{2081}\sqrt{35259}e^1 \otimes e_3$	{146789, 14789, 1678, 178, 34568, 3458, 35689, 3589}
93:8	$0, 0, 0, 0, 0, 0, \frac{3}{421}\sqrt{1846}e^{12}, \frac{2}{421}\sqrt{2485}e^{13}, \frac{2}{421}\sqrt{2343}e^{45}$	$(\frac{11}{421}, \frac{48}{421}, -\frac{34}{421}, -\frac{30}{421}, -\frac{30}{421}, \frac{130}{421}, \frac{59}{421}, -\frac{23}{421}, -\frac{60}{421})$ $+\frac{18}{421}\sqrt{71}e^1 \otimes e_9 + \frac{1}{421}\sqrt{18318}e^2 \otimes e_8 + \frac{2}{421}\sqrt{3337}e^6 \otimes e_7$	{123456, 1236, 14578, 178, 2479, 34689}
93:8	$0, 0, 0, 0, 0, 0, \frac{30}{521}\sqrt{33}e^{12}, \frac{3}{521}\sqrt{1562}e^{13}, \frac{3}{521}\sqrt{1474}e^{45}$	$(-\frac{18}{521}, \frac{53}{521}, -\frac{28}{521}, -\frac{24}{521}, \frac{134}{521}, -\frac{117}{521}, \frac{35}{521}, -\frac{46}{521}, \frac{110}{521})$ $+\frac{24}{521}\sqrt{55}e^1 \otimes e_6 + \frac{24}{521}\sqrt{55}e^2 \otimes e_8 + \frac{6}{521}\sqrt{869}e^5 \otimes e_7$	{12345, 12359, 14789, 178, 24679, 267, 34568, 35689}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{304666}e^{12}, \frac{1}{1587}\sqrt{74630}e^{13}, \frac{2}{1587}\sqrt{87361}e^{45}$	$(-\frac{97}{529}, \frac{187}{1587}, \frac{517}{1587}, -\frac{257}{1587}, \frac{335}{1587}, -\frac{84}{529}, -\frac{104}{1587}, \frac{226}{1587}, \frac{26}{529})$ $+\frac{1}{1587}\sqrt{345054}e^2 \otimes e_6 + \frac{1}{1587}\sqrt{404758}e^3 \otimes e_9 + \frac{4}{1587}\sqrt{32486}e^5 \otimes e_7$	{12345, 12589, 1367, 146789, 2378, 2479, 34568, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{645}e^{12}, \frac{1}{97}\sqrt{602}e^{13}, \frac{1}{97}\sqrt{1634}e^{45}$	$(\frac{14}{97}, \frac{27}{97}, \frac{4}{97}, -\frac{8}{97}, -\frac{8}{97}, -\frac{29}{97}, \frac{41}{97}, \frac{18}{97}, -\frac{16}{97})$ $+\frac{2}{97}\sqrt{989}e^2 \otimes e_9 + \frac{4}{97}\sqrt{215}e^1 \otimes e_6$	{123, 12345, 12458, 128, 13479, 14789, 2345678, 23678, 24567, 267, 34689, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{651}\sqrt{4521}e^{12}, \frac{2}{651}\sqrt{4521}e^{13}, \frac{1}{651}\sqrt{59458}e^{45}$	$(-\frac{26}{217}, -\frac{4}{217}, -\frac{4}{217}, \frac{47}{651}, \frac{47}{651}, \frac{11}{31}, -\frac{30}{217}, -\frac{30}{217}, \frac{94}{651})$ $+\frac{1}{651}\sqrt{48498}e^6 \otimes e_9 + \frac{2}{651}\sqrt{14385}e^4 \otimes e_7 + \frac{2}{651}\sqrt{14385}e^5 \otimes e_8$	{123456, 12489, 1678, 23678, 2579, 456}
93:8	$0, 0, 0, 0, 0, 0, \frac{20}{663}\sqrt{15}e^{12}, \frac{20}{663}\sqrt{15}e^{13}, \frac{5}{663}\sqrt{442}e^{45}$	$(\frac{19}{221}, -\frac{22}{221}, -\frac{22}{221}, \frac{16}{663}, \frac{16}{663}, \frac{18}{221}, -\frac{3}{221}, -\frac{3}{221}, \frac{32}{663})$ $+\frac{15}{221}\sqrt{6}e^1 \otimes e_9 + \frac{5}{663}\sqrt{366}e^4 \otimes e_7 + \frac{5}{663}\sqrt{366}e^5 \otimes e_8$	{12345, 123456, 1678, 178, 25679, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{6}e^{12}, \frac{1}{21}\sqrt{6}e^{13}, \frac{2}{21}\sqrt{7}e^{45}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{21}, \frac{2}{21}, -\frac{1}{7}, 0, 0, \frac{1}{21})$ $+\frac{1}{21}\sqrt{30}e^2 \otimes e_9 + \frac{1}{21}\sqrt{30}e^5 \otimes e_7 + \frac{1}{7}\sqrt{2}e^4 \otimes e_6$	{123458, 1245, 134789, 1479, 2367, 2678, 3569, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{6}e^{12}, \frac{1}{7}\sqrt{6}e^{13}, \frac{1}{7}\sqrt{42}e^{45}$	$(\frac{2}{21}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, 1, \frac{5}{21}, \frac{5}{21}, -\frac{2}{7})$ $+\frac{1}{7}\sqrt{102}e^6 \otimes e_9$	{123456, 12349, 1236, 124568, 12489, 1268, 145678, 14789, 1678, 2345678, 234789, 23678, 24567, 2479, 267, 456, 49, 6}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{371}\sqrt{1490}e^{12}, \frac{9}{371}\sqrt{298}e^{13}, \frac{1}{371}\sqrt{14006}e^{45}$	$\left(\frac{47}{371}, -\frac{102}{371}, -\frac{48}{371}, \frac{94}{371}, -\frac{2}{53}, \frac{148}{371}, -\frac{55}{371}, -\frac{1}{371}, \frac{80}{371}\right)$ $+ \frac{1}{371}\sqrt{34270}e^1 \otimes e_2 + \frac{1}{371}\sqrt{34270}e^6 \otimes e_8 + \frac{6}{371}\sqrt{894}e^4 \otimes e_7$	{135679, 1367, 15789, 178, 235789, 2378, 25679, 267}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{304666}e^{12}, \frac{1}{1587}\sqrt{74630}e^{13}, \frac{2}{1587}\sqrt{87361}e^{45}$	$\left(-\frac{97}{529}, \frac{386}{1587}, \frac{56}{1587}, \frac{68}{529}, -\frac{257}{1587}, \frac{178}{529}, \frac{95}{1587}, -\frac{235}{1587}, -\frac{53}{1587}\right)$ $+ \frac{1}{1587}\sqrt{345054}e^6 \otimes e_7 + \frac{1}{1587}\sqrt{404758}e^4 \otimes e_8 + \frac{4}{1587}\sqrt{32486}e^2 \otimes e_9$	{123456, 1268, 13479, 15789, 2378, 2457, 35689, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{518}\sqrt{9165}e^{12}, \frac{1}{518}\sqrt{39198}e^{13}, \frac{3}{259}\sqrt{987}e^{45}$	$\left(\frac{75}{518}, -\frac{33}{259}, -\frac{195}{1036}, \frac{237}{1036}, -\frac{169}{1036}, \frac{25}{74}, \frac{9}{518}, -\frac{45}{1036}, \frac{17}{259}\right)$ $+ \frac{1}{259}\sqrt{9870}e^1 \otimes e_2 + \frac{1}{518}\sqrt{57246}e^4 \otimes e_8 + \frac{3}{518}\sqrt{4183}e^6 \otimes e_9$	{13456, 1349, 1589, 168, 23589, 2368, 2456, 249}
93:8	$0, 0, 0, 0, 0, 0, \frac{6}{529}\sqrt{1582}e^{12}, \frac{2}{529}\sqrt{4294}e^{13}, \frac{2}{529}\sqrt{1695}e^{45}$	$\left(-\frac{119}{529}, \frac{95}{529}, \frac{202}{529}, -\frac{83}{529}, \frac{143}{529}, -\frac{131}{529}, -\frac{24}{529}, \frac{83}{529}, \frac{60}{529}\right)$ $+ \frac{226}{529}e^5 \otimes e_4 + \frac{2}{529}\sqrt{22035}e^3 \otimes e_7 + \frac{8}{529}\sqrt{1243}e^2 \otimes e_6$	{12349, 12359, 146789, 156789, 2479, 2579, 34689, 35689}
93:8	$0, 0, 0, 0, 0, 0, \frac{20}{73}e^{12}, \frac{20}{73}e^{13}, \frac{4}{73}\sqrt{35}e^{45}$	$\left(-\frac{37}{146}, \frac{29}{146}, \frac{17}{73}, -\frac{11}{73}, \frac{12}{73}, \frac{13}{146}, -\frac{4}{73}, -\frac{3}{146}, \frac{1}{73}\right)$ $+ \frac{4}{73}\sqrt{41}e^2 \otimes e_8 + \frac{4}{73}\sqrt{46}e^3 \otimes e_9 + \frac{4}{73}\sqrt{46}e^5 \otimes e_7$	{12345, 123456, 146789, 14789, 24679, 2479, 34568, 3458}
93:8	$0, 0, 0, 0, 0, 0, \frac{5}{1571}\sqrt{19822}e^{12}, \frac{1}{1571}\sqrt{3498}e^{13}, \frac{2}{1571}\sqrt{75207}e^{45}$	$\left(\frac{217}{1571}, \frac{349}{1571}, -\frac{366}{1571}, -\frac{117}{1571}, -\frac{117}{1571}, \frac{434}{1571}, \frac{566}{1571}, -\frac{149}{1571}, -\frac{234}{1571}\right)$ $+ \frac{12}{1571}\sqrt{4081}e^1 \otimes e_3 + \frac{1}{1571}\sqrt{341638}e^6 \otimes e_8 + \frac{1}{1571}\sqrt{738078}e^2 \otimes e_9$	{12458, 128, 14789, 234578, 2378, 3489}
93:8	$0, 0, 0, 0, 0, 0, \frac{21}{1681}\sqrt{638}e^{12}, \frac{14}{1681}\sqrt{1870}e^{13}, \frac{7}{1681}\sqrt{5214}e^{45}$	$\left(-\frac{448}{1681}, \frac{292}{1681}, \frac{383}{1681}, -\frac{84}{1681}, \frac{474}{1681}, -\frac{247}{1681}, -\frac{156}{1681}, -\frac{65}{1681}, \frac{390}{1681}\right)$ $+ \frac{140}{1681}\sqrt{22}e^2 \otimes e_6 + \frac{14}{1681}\sqrt{3135}e^3 \otimes e_7 + \frac{42}{1681}\sqrt{341}e^5 \otimes e_8$	{12345, 12359, 146789, 1678, 2457, 2579, 34689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{14}{237}\sqrt{33}e^{12}, \frac{14}{237}\sqrt{33}e^{13}, \frac{14}{237}\sqrt{79}e^{45}$	$\left(-\frac{13}{79}, -\frac{2}{79}, -\frac{2}{79}, \frac{53}{237}, \frac{53}{237}, \frac{9}{79}, -\frac{15}{79}, -\frac{15}{79}, \frac{106}{237}\right)$ $+ \frac{14}{237}\sqrt{105}e^4 \otimes e_7 + \frac{14}{237}\sqrt{105}e^5 \otimes e_8$	{12345, 123456, 124689, 12489, 1678, 178, 23678, 2378, 25679, 2579, 45, 456}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{144}\sqrt{3854}e^{12}, \frac{1}{144}\sqrt{246}e^{13}, \frac{1}{144}\sqrt{287}e^{45}$	$\left(\frac{1}{32}, \frac{1}{16}, -\frac{73}{288}, \frac{7}{144}, \frac{7}{144}, \frac{109}{288}, \frac{3}{32}, -\frac{2}{9}, \frac{7}{72}\right)$ $+ \frac{1}{144}\sqrt{3731}e^2 \otimes e_8 + \frac{1}{72}\sqrt{902}e^1 \otimes e_3 + \frac{1}{72}\sqrt{902}e^6 \otimes e_7$	{14578, 14789, 178, 34568, 34689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{1}{313}\sqrt{21670}e^{13}, \frac{2}{313}\sqrt{6501}e^{45}$	$\left(-\frac{49}{313}, \frac{121}{313}, \frac{143}{313}, -\frac{27}{313}, -\frac{27}{313}, -\frac{76}{313}, \frac{72}{313}, \frac{94}{313}, -\frac{54}{313}\right)$ $+ \frac{1}{313}\sqrt{45310}e^2 \otimes e_6 + \frac{1}{313}\sqrt{62646}e^3 \otimes e_9$	{123, 12345, 12489, 134567, 1367, 146789, 234578, 2378, 2479, 34568, 368, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{21670}e^{12}, \frac{1}{313}\sqrt{13002}e^{13}, \frac{2}{313}\sqrt{6501}e^{45}$	$\left(-\frac{49}{313}, \frac{143}{313}, \frac{6}{313}, -\frac{27}{313}, -\frac{27}{313}, \frac{154}{313}, \frac{94}{313}, -\frac{43}{313}, -\frac{54}{313}\right)$ $+ \frac{1}{313}\sqrt{45310}e^6 \otimes e_8 + \frac{1}{313}\sqrt{62646}e^2 \otimes e_9$	{123456, 1236, 12458, 128, 134679, 14789, 234578, 2378, 24567, 267, 3489, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{14}{237}\sqrt{33}e^{12}, \frac{14}{237}\sqrt{33}e^{13}, \frac{14}{237}\sqrt{79}e^{45}$	$\left(-\frac{13}{79}, \frac{33}{79}, -\frac{2}{79}, \frac{53}{237}, -\frac{52}{237}, \frac{9}{79}, \frac{20}{79}, -\frac{15}{79}, \frac{1}{237}\right)$ $+ \frac{14}{237}\sqrt{105}e^2 \otimes e_9 + \frac{14}{237}\sqrt{105}e^4 \otimes e_8$	{12345, 123456, 1268, 128, 134679, 13479, 156789, 15789, 23678, 2378, 24567, 2457, 35689, 3589, 469, 49}
93:8	$0, 0, 0, 0, 0, 0, \frac{6}{529}\sqrt{1582}e^{12}, \frac{2}{529}\sqrt{4294}e^{13}, \frac{2}{529}\sqrt{1695}e^{45}$	$\left(\frac{57}{529}, \frac{114}{529}, -\frac{169}{529}, -\frac{83}{529}, \frac{143}{529}, \frac{45}{529}, \frac{171}{529}, -\frac{112}{529}, \frac{60}{529}\right)$ $+ \frac{226}{529}e^5 \otimes e_4 + \frac{2}{529}\sqrt{22035}e^2 \otimes e_8 + \frac{8}{529}\sqrt{1243}e^1 \otimes e_3$	{146789, 14789, 156789, 15789, 34689, 3489, 35689, 3589}
93:8	$0, 0, 0, 0, 0, 0, \frac{12}{25}e^{12}, \frac{12}{25}e^{13}, \frac{6}{25}e^{45}$	$\left(\frac{8}{25}, -\frac{1}{25}, -\frac{1}{25}, \frac{11}{25}, -\frac{7}{25}, -\frac{2}{25}, \frac{7}{25}, \frac{7}{25}, \frac{4}{25}\right)$ $+ \frac{18}{25}e^4 \otimes e_5 + \frac{6}{25}\sqrt{13}e^1 \otimes e_6$	{12349, 12359, 12489, 12589, 14789, 15789, 2346789, 2356789, 24679, 25679, 469, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{651}\sqrt{4521}e^{12}, \frac{2}{651}\sqrt{4521}e^{13}, \frac{1}{651}\sqrt{59458}e^{45}$	$\left(-\frac{26}{217}, \frac{66}{217}, -\frac{4}{217}, \frac{2}{93}, \frac{47}{651}, -\frac{41}{217}, \frac{40}{217}, -\frac{30}{217}, \frac{61}{651}\right)$ $+ \frac{1}{651}\sqrt{48498}e^4 \otimes e_6 + \frac{1}{651}\sqrt{14385}e^2 \otimes e_9 + \frac{2}{651}\sqrt{14385}e^5 \otimes e_8$	{12345, 1268, 135679, 14789, 23678, 2457, 3489, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{11}{292}\sqrt{107}e^{12}, \frac{11}{292}\sqrt{29}e^{13}, \frac{11}{584}\sqrt{166}e^{45}$	$\left(\frac{103}{1168}, \frac{35}{584}, -\frac{139}{1168}, -\frac{43}{584}, -\frac{43}{584}, \frac{415}{1168}, \frac{173}{1168}, -\frac{9}{292}, -\frac{43}{292}\right)$ $+ \frac{11}{584}\sqrt{335}e^1 \otimes e_3 + \frac{11}{584}\sqrt{335}e^6 \otimes e_7 + \frac{11}{584}\sqrt{418}e^2 \otimes e_9$	{12456, 126, 1479, 23457, 237, 3469}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{66}\sqrt{1749}e^{12}, \frac{1}{66}\sqrt{1749}e^{13}, \frac{1}{33}\sqrt{583}e^{45}$	$\left(\frac{1}{2}, -\frac{3}{44}, -\frac{3}{44}, -\frac{5}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{19}{44}, \frac{19}{44}, -\frac{10}{33}\right)$ $+ \frac{1}{11}\sqrt{159}e^1 \otimes e_9$	{123, 12345, 123456, 1236, 124568, 12458, 1268, 128, 145678, 14578, 1678, 178, 2346789, 234789, 24679, 2479, 469, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{851}\sqrt{2130}e^{12}, \frac{20}{851}\sqrt{142}e^{13}, \frac{8}{851}\sqrt{1065}e^{45}$	$(\frac{109}{851}, \frac{89}{851}, -\frac{122}{851}, -\frac{162}{851}, \frac{129}{851}, -\frac{53}{851}, \frac{198}{851}, -\frac{13}{851}, -\frac{33}{851})$ $+ \frac{2}{851}\sqrt{20661}e^5 \otimes e_8 + \frac{2}{851}\sqrt{9301}e^2 \otimes e_6 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_9$	{12345, 128, 134567, 1678, 234789, 2579, 34689, 569}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{58}\sqrt{667}e^{12}, \frac{1}{58}\sqrt{667}e^{13}, \frac{1}{29}\sqrt{23}e^{45}$	$(\frac{3}{58}, \frac{35}{116}, -\frac{17}{116}, \frac{2}{29}, \frac{2}{29}, -\frac{10}{29}, \frac{41}{29}, -\frac{11}{116}, \frac{4}{29})$ $+ \frac{1}{29}\sqrt{299}e^1 \otimes e_6 + \frac{1}{29}\sqrt{299}e^2 \otimes e_8$	{123, 12345, 12349, 14578, 14789, 178, 24567, 24679, 267, 34568, 34689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{44}{567}\sqrt{10}e^{12}, \frac{22}{63}\sqrt{2}e^{13}, \frac{22}{567}\sqrt{14}e^{45}$	$(\frac{122}{567}, -\frac{40}{189}, -\frac{40}{189}, \frac{149}{567}, -\frac{31}{189}, \frac{244}{567}, \frac{2}{567}, \frac{2}{567}, \frac{8}{81})$ $+ \frac{22}{567}\sqrt{202}e^1 \otimes e_2 + \frac{22}{567}\sqrt{202}e^6 \otimes e_8 + \frac{242}{567}e^4 \otimes e_5$	{13469, 13569, 1489, 1589, 23489, 23589, 2469, 2569}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{518}\sqrt{9165}e^{12}, \frac{1}{518}\sqrt{39198}e^{13}, \frac{3}{259}\sqrt{987}e^{45}$	$(\frac{75}{518}, -\frac{33}{259}, -\frac{195}{1036}, \frac{7}{74}, \frac{237}{1036}, -\frac{46}{259}, \frac{9}{518}, -\frac{45}{1036}, \frac{335}{1036})$ $+ \frac{1}{259}\sqrt{9870}e^1 \otimes e_2 + \frac{1}{518}\sqrt{57246}e^5 \otimes e_8 + \frac{3}{518}\sqrt{4183}e^4 \otimes e_6$	{1345, 13569, 1489, 168, 23489, 2368, 245, 2569}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{55158}e^{12}, \frac{2}{247}\sqrt{2219}e^{13}, \frac{1}{247}\sqrt{9510}e^{45}$	$(-\frac{28}{247}, \frac{160}{247}, \frac{59}{247}, \frac{30}{247}, \frac{30}{247}, -\frac{157}{247}, \frac{132}{247}, \frac{31}{247}, \frac{60}{247})$ $+ \frac{2}{247}\sqrt{32017}e^2 \otimes e_6$	{12, 123458, 123489, 1238, 1245, 1249, 1345678, 1346789, 13678, 14567, 14679, 167, 23457, 23479, 237, 24578, 24789, 278, 3456, 3469, 36, 4568, 4689, 68}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{38}e^{12}, \frac{1}{42}\sqrt{57}e^{13}, \frac{1}{21}\sqrt{133}e^{45}$	$(-\frac{1}{14}, -\frac{3}{28}, \frac{1}{7}, \frac{1}{6}, \frac{23}{84}, -\frac{2}{7}, -\frac{5}{28}, \frac{1}{14}, \frac{37}{84})$ $+ \frac{1}{42}\sqrt{627}e^4 \otimes e_6 + \frac{1}{42}\sqrt{798}e^5 \otimes e_7$	{123458, 1235689, 1245, 12569, 134789, 13678, 1479, 167, 23479, 2367, 24789, 2678, 345, 3569, 458, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{12}{25}e^{12}, \frac{12}{25}e^{13}, \frac{6}{25}e^{45}$	$(-\frac{1}{5}, \frac{12}{25}, -\frac{1}{25}, \frac{11}{25}, -\frac{7}{25}, \frac{3}{25}, \frac{7}{25}, -\frac{6}{25}, \frac{4}{25})$ $+ \frac{18}{25}e^4 \otimes e_5 + \frac{6}{25}\sqrt{13}e^2 \otimes e_8$	{123469, 12349, 123569, 12359, 146789, 14789, 156789, 15789, 24679, 2479, 25679, 2579, 34689, 3489, 35689, 3589}
93:8	$0, 0, 0, 0, 0, 0, \frac{6}{1913}\sqrt{13098}e^{12}, \frac{3}{1913}\sqrt{10030}e^{13}, \frac{3}{1913}\sqrt{54398}e^{45}$	$(-\frac{360}{1913}, \frac{255}{1913}, \frac{84}{1913}, \frac{204}{1913}, \frac{426}{1913}, -\frac{327}{1913}, -\frac{105}{1913}, -\frac{276}{1913}, \frac{630}{1913})$ $+ \frac{12}{1913}\sqrt{3658}e^4 \otimes e_6 + \frac{6}{1913}\sqrt{15635}e^2 \otimes e_8 + \frac{6}{1913}\sqrt{21181}e^5 \otimes e_7$	{12345, 123569, 14789, 1678, 2479, 267, 3458, 35689}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{55158}e^{12}, \frac{4}{811}\sqrt{2219}e^{13}, \frac{2}{811}\sqrt{9510}e^{45}$	$(-\frac{56}{811}, \frac{320}{811}, \frac{118}{811}, \frac{377}{811}, -\frac{257}{811}, -\frac{314}{811}, \frac{264}{811}, \frac{62}{811}, \frac{120}{811})$ $+ \frac{4}{811}\sqrt{32017}e^2 \otimes e_6 + \frac{634}{811}e^4 \otimes e_5$	{123489, 123589, 1249, 1259, 1346789, 1356789, 14679, 15679, 23479, 23579, 24789, 25789, 3469, 3569, 4689, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{38}e^{12}, \frac{1}{42}\sqrt{57}e^{13}, \frac{1}{21}\sqrt{133}e^{45}$	$(-\frac{1}{14}, -\frac{3}{28}, \frac{1}{7}, \frac{23}{84}, -\frac{19}{84}, \frac{1}{2}, -\frac{5}{28}, \frac{1}{14}, \frac{1}{21})$ $+ \frac{1}{42}\sqrt{627}e^6 \otimes e_9 + \frac{4}{42}\sqrt{798}e^4 \otimes e_7$	{1234568, 123489, 12456, 1249, 135789, 13678, 1579, 167, 23579, 2367, 25789, 2678, 3456, 349, 4568, 489}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{1749}e^{12}, \frac{2}{185}\sqrt{1749}e^{13}, \frac{4}{185}\sqrt{583}e^{45}$	$(\frac{66}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{33}{185}, -\frac{73}{185}, \frac{24}{185}, \frac{57}{185}, \frac{57}{185}, -\frac{8}{37})$ $+ \frac{106}{185}e^4 \otimes e_5 + \frac{12}{185}\sqrt{159}e^1 \otimes e_9$	{2346789, 234789, 2356789, 235789, 24679, 2479, 25679, 2579, 469, 49, 569, 59}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{645}e^{12}, \frac{1}{97}\sqrt{602}e^{13}, \frac{1}{97}\sqrt{1634}e^{45}$	$(-\frac{26}{97}, \frac{21}{97}, \frac{4}{97}, \frac{38}{97}, -\frac{8}{97}, \frac{11}{97}, -\frac{5}{97}, -\frac{22}{97}, \frac{30}{97})$ $+ \frac{2}{97}\sqrt{989}e^4 \otimes e_7 + \frac{4}{97}\sqrt{215}e^2 \otimes e_8$	{12345, 123456, 123469, 12349, 156789, 15789, 1678, 178, 25679, 2579, 267, 27, 34568, 3458, 34689, 3489}
93:8	$0, 0, 0, 0, 0, 0, \frac{22}{223}\sqrt{10}e^{12}, \frac{99}{223}\sqrt{2}e^{13}, \frac{11}{223}\sqrt{14}e^{45}$	$(\frac{61}{223}, -\frac{60}{223}, -\frac{60}{223}, \frac{14}{223}, \frac{14}{223}, \frac{122}{223}, \frac{1}{223}, \frac{1}{223}, \frac{28}{223})$ $+ \frac{11}{223}\sqrt{202}e^1 \otimes e_2 + \frac{11}{223}\sqrt{202}e^6 \otimes e_8$	{13456, 13469, 136, 1458, 1489, 18, 23458, 23489, 238, 2456, 2469, 26}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{38}e^{12}, \frac{1}{42}\sqrt{57}e^{13}, \frac{1}{21}\sqrt{133}e^{45}$	$(-\frac{1}{14}, \frac{11}{28}, \frac{1}{7}, \frac{1}{6}, -\frac{19}{84}, -\frac{2}{7}, \frac{9}{28}, \frac{1}{14}, -\frac{5}{84})$ $+ \frac{1}{42}\sqrt{627}e^4 \otimes e_6 + \frac{4}{42}\sqrt{798}e^2 \otimes e_9$	{123458, 12368, 1245, 126, 134789, 1356789, 1479, 15679, 23457, 2367, 24578, 2678, 349, 3569, 489, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{6119}e^{12}, \frac{2}{2193}\sqrt{16458}e^{13}, \frac{1}{2193}\sqrt{308482}e^{45}$	$(\frac{104}{731}, -\frac{114}{731}, \frac{8}{731}, -\frac{80}{2193}, \frac{181}{2193}, -\frac{97}{731}, -\frac{10}{731}, \frac{112}{731}, \frac{101}{2193})$ $+ \frac{1}{2193}\sqrt{198762}e^4 \otimes e_6 + \frac{1}{2193}\sqrt{77226}e^5 \otimes e_7 + \frac{6}{731}\sqrt{1055}e^1 \otimes e_9$	{12345, 12458, 1367, 1678, 234789, 2479, 35689, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:8	$0, 0, 0, 0, 0, 0, \frac{20}{851}\sqrt{142}e^{12}, \frac{4}{851}\sqrt{2130}e^{13}, \frac{8}{851}\sqrt{1065}e^{45}$	$\left(\frac{109}{851}, -\frac{122}{851}, -\frac{42}{851}, \frac{129}{851}, -\frac{162}{851}, \frac{209}{851}, -\frac{13}{851}, \frac{67}{851}, -\frac{33}{851}\right) + \frac{2}{851}\sqrt{20661}e^4 \otimes e_7 + \frac{2}{851}\sqrt{9301}e^6 \otimes e_8 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_9$	{123456, 12458, 1367, 178, 235789, 25679, 3489, 469}
93:8	$0, 0, 0, 0, 0, 0, \frac{2}{379}\sqrt{4774}e^{12}, \frac{7}{379}\sqrt{66}e^{13}, \frac{3}{379}\sqrt{2002}e^{45}$	$\left(-\frac{70}{379}, \frac{68}{379}, \frac{54}{379}, \frac{75}{379}, -\frac{84}{379}, \frac{61}{379}, -\frac{2}{379}, -\frac{16}{379}, -\frac{9}{379}\right) + \frac{14}{379}\sqrt{22}e^6 \otimes e_8 + \frac{1}{379}\sqrt{24486}e^2 \otimes e_9 + \frac{1}{379}\sqrt{24486}e^4 \otimes e_7$	{123458, 12456, 135789, 15679, 2367, 278, 3469, 489}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{186}\sqrt{6545}e^{12}, \frac{1}{186}\sqrt{6545}e^{13}, \frac{1}{186}\sqrt{7854}e^{45}$	$\left(-\frac{16}{93}, \frac{55}{124}, -\frac{3}{124}, \frac{11}{31}, -\frac{5}{93}, -\frac{53}{186}, \frac{101}{372}, -\frac{73}{372}, \frac{28}{93}\right) + \frac{1}{186}\sqrt{20706}e^2 \otimes e_8 + \frac{1}{93}\sqrt{4522}e^4 \otimes e_6$	{12345, 12349, 123569, 1236, 14578, 14789, 156789, 1678, 2457, 2479, 25679, 267, 3458, 3489, 35689, 368}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{511}\sqrt{3477}e^{12}, \frac{1}{511}\sqrt{13359}e^{13}, \frac{6}{511}\sqrt{854}e^{45}$	$\left(-\frac{1}{7}, \frac{100}{511}, \frac{79}{511}, \frac{50}{511}, -\frac{19}{73}, \frac{30}{73}, \frac{27}{511}, \frac{6}{511}, -\frac{83}{511}\right) + \frac{183}{511}e^4 \otimes e_5 + \frac{1}{511}\sqrt{61305}e^6 \otimes e_7 + \frac{1}{511}\sqrt{76677}e^2 \otimes e_9$	{134789, 135789, 1479, 1579, 3469, 3569, 4689, 5689}
93:8	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{170}e^{12}, \frac{4}{157}\sqrt{170}e^{13}, \frac{3}{157}\sqrt{85}e^{45}$	$\left(\frac{32}{157}, -\frac{53}{157}, -\frac{5}{314}, \frac{103}{314}, -\frac{67}{314}, \frac{64}{157}, -\frac{21}{157}, \frac{59}{314}, \frac{18}{157}\right) + \frac{1}{157}\sqrt{8585}e^1 \otimes e_2 + \frac{1}{157}\sqrt{8585}e^6 \otimes e_7 + \frac{85}{157}e^4 \otimes e_5$	{13479, 13579, 14789, 15789, 234789, 235789, 2479, 2579}
93:8	$0, 0, 0, 0, 0, 0, \frac{11}{292}\sqrt{107}e^{12}, \frac{11}{292}\sqrt{29}e^{13}, \frac{11}{584}\sqrt{166}e^{45}$	$\left(\frac{103}{1168}, -\frac{13}{1168}, -\frac{139}{1168}, -\frac{43}{584}, \frac{83}{292}, -\frac{255}{1168}, \frac{45}{584}, -\frac{9}{292}, \frac{123}{584}\right) + \frac{11}{584}\sqrt{335}e^1 \otimes e_3 + \frac{11}{584}\sqrt{335}e^2 \otimes e_6 + \frac{11}{584}\sqrt{418}e^5 \otimes e_7$	{1245, 1259, 14679, 167, 23479, 237, 3456, 3569}
93:8	$0, 0, 0, 0, 0, 0, \frac{1}{1587}\sqrt{304666}e^{12}, \frac{1}{1587}\sqrt{74630}e^{13}, \frac{2}{1587}\sqrt{87361}e^{45}$	$\left(\frac{34}{529}, \frac{386}{1587}, -\frac{337}{1587}, -\frac{257}{529}, \frac{68}{529}, \frac{47}{529}, \frac{488}{1587}, -\frac{235}{1587}, -\frac{53}{1587}\right) + \frac{1}{1587}\sqrt{345054}e^1 \otimes e_3 + \frac{1}{1587}\sqrt{404758}e^5 \otimes e_8 + \frac{4}{1587}\sqrt{32486}e^2 \otimes e_9$	{1268, 128, 146789, 14789, 23678, 2378, 34689, 3489}
93:8	$0, 0, 0, 0, 0, 0, \frac{15}{1889}\sqrt{2822}e^{12}, \frac{6}{1889}\sqrt{5478}e^{13}, \frac{3}{1889}\sqrt{36022}e^{45}$	$\left(\frac{198}{1889}, \frac{396}{1889}, -\frac{549}{1889}, -\frac{48}{1889}, \frac{434}{1889}, -\frac{313}{1889}, \frac{594}{1889}, -\frac{351}{1889}, \frac{386}{1889}\right) + \frac{6}{1889}\sqrt{20003}e^5 \otimes e_6 + \frac{6}{1889}\sqrt{24319}e^1 \otimes e_3 + \frac{6}{1889}\sqrt{27058}e^2 \otimes e_8$	{14578, 146789, 15789, 1678, 3458, 34689, 3589, 368}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{119}e^{12}, \frac{1}{43}\sqrt{203}e^{13}, \frac{7}{43}\sqrt{3}e^{14} + \frac{1}{43}\sqrt{322}e^{25}$	$\left(-\frac{9}{86}, -\frac{7}{86}, \frac{31}{86}, \frac{6}{43}, \frac{5}{43}, -\frac{9}{43}, -\frac{8}{43}, \frac{11}{43}, \frac{3}{86}\right) + \frac{1}{43}\sqrt{210}e^4 \otimes e_7 + \frac{1}{43}\sqrt{357}e^5 \otimes e_6 + \frac{2}{43}\sqrt{133}e^3 \otimes e_9$	{126789, 1346, 2469, 3678}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{1369}\sqrt{69231}e^{12}, \frac{1}{1369}\sqrt{374142}e^{13}, \frac{4}{1369}\sqrt{3437}e^{14} + \frac{6}{1369}\sqrt{5401}e^{25}$	$\left(\frac{86}{1369}, \frac{340}{1369}, -\frac{237}{1369}, \frac{200}{1369}, -\frac{54}{1369}, -\frac{405}{1369}, \frac{426}{1369}, -\frac{151}{1369}, \frac{286}{1369}\right) + \frac{26}{1369}\sqrt{982}e^2 \otimes e_8 + \frac{3}{1369}\sqrt{59902}e^1 \otimes e_6$	{12349, 1235, 145789, 178, 24567, 2679, 3468, 35689}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{4}{51}\sqrt{21}e^{13}, \frac{8}{51}\sqrt{6}e^{14} + \frac{4}{51}\sqrt{21}e^{25}$	$\left(-\frac{3}{17}, \frac{2}{17}, \frac{7}{17}, \frac{13}{51}, -\frac{2}{51}, -\frac{6}{17}, -\frac{1}{17}, \frac{4}{17}, \frac{4}{51}\right) + \frac{4}{51}\sqrt{69}e^2 \otimes e_6 + \frac{4}{51}\sqrt{69}e^3 \otimes e_7$	{12349, 1235, 1456789, 1678, 2457, 279, 3468, 35689}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{555}e^{12}, \frac{2}{145}\sqrt{518}e^{13}, \frac{2}{145}\sqrt{259}e^{14} + \frac{2}{145}\sqrt{518}e^{25}$	$\left(-\frac{28}{145}, \frac{32}{145}, \frac{5}{29}, \frac{18}{145}, -\frac{42}{145}, \frac{78}{145}, \frac{4}{145}, -\frac{3}{145}, -\frac{2}{29}\right) + \frac{2}{145}\sqrt{2479}e^2 \otimes e_5 + \frac{2}{145}\sqrt{2479}e^6 \otimes e_7$	{12368, 126, 13578, 157, 2347, 2478, 3456, 4568}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{667}\sqrt{10}e^{12}, \frac{20}{667}\sqrt{330}e^{13}, \frac{10}{667}\sqrt{635}e^{14} + \frac{10}{667}\sqrt{890}e^{25}$	$\left(\frac{182}{667}, -\frac{117}{667}, -\frac{201}{667}, -\frac{68}{667}, \frac{231}{667}, \frac{63}{667}, \frac{65}{667}, -\frac{19}{667}, \frac{114}{667}\right) + \frac{10}{667}\sqrt{1290}e^1 \otimes e_4 + \frac{10}{667}\sqrt{1730}e^5 \otimes e_8$	{1235, 12356, 1678, 178, 24567, 2457, 3468, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{38570}e^{12}, \frac{2}{1219}\sqrt{110751}e^{13}, \frac{4}{1219}\sqrt{3306}e^{14} + \frac{1}{1219}\sqrt{274398}e^{25}$	$\left(\frac{179}{1219}, -\frac{79}{1219}, \frac{358}{1219}, -\frac{372}{1219}, -\frac{114}{1219}, \frac{135}{1219}, \frac{100}{1219}, \frac{537}{1219}, -\frac{193}{1219}\right) + \frac{25}{1219}\sqrt{1102}e^3 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^1 \otimes e_4$	{126789, 12789, 15689, 1589, 2469, 249, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{210}e^{12}, \frac{2}{159}\sqrt{770}e^{13}, \frac{1}{159}\sqrt{1610}e^{14} + \frac{2}{159}\sqrt{595}e^{25}$	$\left(-\frac{35}{159}, \frac{22}{159}, \frac{22}{159}, \frac{12}{53}, -\frac{7}{53}, \frac{12}{53}, -\frac{13}{159}, -\frac{13}{159}, \frac{1}{159}\right) + \frac{1}{159}\sqrt{1610}e^6 \otimes e_9 + \frac{1}{159}\sqrt{3710}e^3 \otimes e_7 + \frac{1}{159}e^2 \otimes e_8$	{12349, 12356, 145789, 1678, 24567, 279, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{210}e^{12}, \frac{2}{159}\sqrt{770}e^{13}, \frac{1}{159}\sqrt{1610}e^{14} + \frac{2}{159}\sqrt{595}e^{25}$	$\left(-\frac{35}{159}, \frac{22}{159}, \frac{22}{159}, \frac{12}{53}, -\frac{7}{53}, \frac{12}{53}, -\frac{13}{159}, -\frac{13}{159}, \frac{1}{159}\right) + \frac{1}{159}\sqrt{1610}e^6 \otimes e_9 - \frac{1}{159}\sqrt{3710}e^3 \otimes e_7 + \frac{70}{159}e^2 \otimes e_8$	{12349, 12356, 145789, 1678, 24567, 279, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{181}\sqrt{30}e^{12}, \frac{7}{181}\sqrt{102}e^{13}, \frac{14}{181}e^{14} + \frac{28}{181}\sqrt{6}e^{25}$	$\left(-\frac{23}{181}, -\frac{18}{181}, \frac{39}{181}, \frac{13}{181}, \frac{8}{181}, \frac{65}{181}, -\frac{41}{181}, \frac{16}{181}, -\frac{10}{181}\right) + \frac{35}{181}\sqrt{6}e^3 \otimes e_9 + \frac{70}{181}e^6 \otimes e_8 + \frac{7}{181}\sqrt{82}e^5 \otimes e_7$	{12789, 1589, 2358, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{645}e^{12}, \frac{3}{67}\sqrt{129}e^{13}, \frac{1}{67}\sqrt{731}e^{14} + \frac{2}{67}\sqrt{258}e^{25}$	$(-\frac{5}{67}, -\frac{12}{67}, \frac{26}{67}, \frac{16}{67}, \frac{23}{67}, -\frac{20}{67}, -\frac{17}{67}, \frac{21}{67}, \frac{11}{67})$ $+ \frac{1}{67}\sqrt{2365}e^5 \otimes e_6 + \frac{8}{67}\sqrt{43}e^3 \otimes e_7$	{123469, 1235, 145789, 1678, 2457, 2679, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{189222}e^{12}, \frac{1}{1315}\sqrt{57706}e^{13}, \frac{2}{1315}\sqrt{142923}e^{14} + \frac{7}{1315}\sqrt{4026}e^{25}$	$(\frac{27}{263}, \frac{132}{1315}, -\frac{536}{1315}, \frac{54}{263}, \frac{273}{1315}, \frac{126}{1315}, \frac{267}{1315}, -\frac{401}{1315}, \frac{81}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_3 + \frac{2}{1315}\sqrt{191235}e^4 \otimes e_8$	{125689, 12589, 16789, 1789, 23678, 2378, 3568, 358}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{18291}e^{12}, \frac{2}{499}\sqrt{38766}e^{13}, \frac{28}{499}\sqrt{195}e^{14} + \frac{4}{499}\sqrt{273}e^{25}$	$(-\frac{130}{499}, \frac{148}{499}, -\frac{57}{499}, \frac{359}{499}, \frac{81}{499}, \frac{85}{499}, \frac{18}{499}, -\frac{187}{499}, \frac{229}{499})$ $+ \frac{6}{499}\sqrt{12558}e^4 \otimes e_8$	{1234567, 123457, 126789, 12789, 134, 1346, 15689, 1589, 23568, 2358, 2469, 249, 3678, 378, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2747}e^{12}, \frac{4}{169}\sqrt{1005}e^{13}, \frac{2}{169}\sqrt{2010}e^{14} + \frac{4}{169}\sqrt{1005}e^{25}$	$(-\frac{22}{169}, \frac{8}{169}, \frac{109}{169}, -\frac{3}{169}, -\frac{33}{169}, \frac{27}{169}, -\frac{14}{169}, \frac{87}{169}, -\frac{25}{169})$ $+ \frac{1}{169}\sqrt{9514}e^3 \otimes e_9$	{1234567, 123457, 126789, 12789, 134, 1346, 15689, 1589, 23568, 2358, 2469, 249, 3678, 378, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{229}\sqrt{2091}e^{12}, \frac{6}{229}\sqrt{238}e^{13}, \frac{2}{229}\sqrt{3162}e^{14} + \frac{6}{229}\sqrt{238}e^{25}$	$(-\frac{40}{229}, \frac{22}{229}, \frac{105}{229}, \frac{43}{229}, -\frac{19}{229}, -\frac{59}{229}, -\frac{18}{229}, \frac{65}{229}, \frac{3}{229})$ $+ \frac{2}{229}\sqrt{4182}e^4 \otimes e_6 + \frac{4}{229}\sqrt{1581}e^3 \otimes e_9$	{123457, 126789, 134, 15689, 23568, 249, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{2}{313}\sqrt{6501}e^{13}, \frac{1}{313}\sqrt{4334}e^{14} + \frac{2}{313}\sqrt{6501}e^{25}$	$(-\frac{49}{313}, \frac{121}{313}, -\frac{27}{313}, \frac{143}{313}, -\frac{27}{313}, -\frac{54}{313}, \frac{72}{313}, -\frac{76}{313}, \frac{94}{313})$ $+ \frac{1}{313}\sqrt{36642}e^4 \otimes e_6 + \frac{1}{313}\sqrt{71314}e^2 \otimes e_8$	{12349, 12356, 145789, 1678, 2457, 2679, 348, 35689}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{210}e^{12}, \frac{2}{159}\sqrt{770}e^{13}, \frac{1}{159}\sqrt{1610}e^{14} + \frac{2}{159}\sqrt{595}e^{25}$	$(\frac{6}{53}, \frac{22}{159}, -\frac{31}{159}, -\frac{17}{159}, -\frac{7}{53}, \frac{12}{53}, \frac{40}{159}, -\frac{13}{159}, \frac{1}{159})$ $+ \frac{1}{159}\sqrt{1610}e^6 \otimes e_9 + \frac{1}{159}\sqrt{3710}e^1 \otimes e_4 + \frac{70}{159}e^2 \otimes e_8$	{12356, 1678, 24567, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{8}{271}\sqrt{51}e^{12}, \frac{4}{271}\sqrt{345}e^{13}, \frac{12}{271}\sqrt{2}e^{14} + \frac{4}{271}\sqrt{345}e^{25}$	$(-\frac{21}{271}, -\frac{27}{271}, \frac{29}{271}, \frac{26}{271}, \frac{32}{271}, \frac{20}{271}, -\frac{48}{271}, \frac{8}{271}, \frac{5}{271})$ $+ \frac{4}{271}\sqrt{381}e^5 \otimes e_8 + \frac{8}{271}\sqrt{93}e^3 \otimes e_9$	{123567, 12357, 1246789, 124789, 34678, 3478, 5679, 579}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{6386}e^{12}, \frac{2}{161}\sqrt{1030}e^{13}, \frac{2}{161}\sqrt{515}e^{14} + \frac{2}{161}\sqrt{1030}e^{25}$	$(-\frac{20}{161}, -\frac{25}{161}, \frac{37}{161}, \frac{32}{161}, \frac{37}{161}, 1, -\frac{45}{161}, \frac{17}{161}, \frac{12}{161})$ $+ \frac{2}{161}\sqrt{13802}e^6 \otimes e_7$	{12345689, 12368, 124569, 126, 134789, 13578, 1479, 157, 2347, 23579, 2478, 25789, 3456, 369, 4568, 689}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{1459}\sqrt{1290}e^{12}, \frac{10}{1459}\sqrt{2310}e^{13}, \frac{10}{1459}\sqrt{1290}e^{14} + \frac{10}{1459}\sqrt{4030}e^{25}$	$(-\frac{105}{1459}, -\frac{148}{1459}, -\frac{105}{1459}, \frac{247}{1459}, \frac{290}{1459}, \frac{642}{1459}, -\frac{253}{1459}, -\frac{210}{1459}, \frac{142}{1459})$ $+ \frac{20}{1459}\sqrt{1290}e^6 \otimes e_9 + \frac{500}{1459}e^4 \otimes e_7 + \frac{90}{1459}\sqrt{70}e^5 \otimes e_8$	{12789, 1468, 23489, 3678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{199682}e^{12}, \frac{1}{1187}\sqrt{236598}e^{13}, \frac{2}{1187}\sqrt{69637}e^{14} + \frac{10}{1187}\sqrt{839}e^{25}$	$(-\frac{291}{1187}, \frac{545}{1187}, -\frac{6}{1187}, \frac{542}{1187}, -\frac{294}{1187}, \frac{135}{1187}, \frac{254}{1187}, -\frac{297}{1187}, \frac{251}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^2 \otimes e_5 + \frac{1}{1187}\sqrt{961494}e^4 \otimes e_8$	{1234, 12346, 134567, 13457, 23678, 2378, 3568, 358}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{12}, \frac{2}{157}\sqrt{1155}e^{13}, \frac{1}{157}\sqrt{2310}e^{14} + \frac{2}{157}\sqrt{1155}e^{25}$	$(-\frac{25}{157}, -\frac{14}{157}, -\frac{3}{157}, \frac{77}{157}, \frac{66}{157}, \frac{19}{157}, -\frac{39}{157}, -\frac{28}{157}, \frac{52}{157})$ $+ \frac{3}{157}\sqrt{1610}e^4 \otimes e_8 + \frac{3}{157}\sqrt{1610}e^5 \otimes e_7$	{12345, 123456, 13467, 1347, 24679, 2479, 4569, 459}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{4}{499}\sqrt{273}e^{13}, \frac{2}{499}\sqrt{18291}e^{14} + \frac{2}{499}\sqrt{38766}e^{25}$	$(\frac{8}{499}, -\frac{197}{499}, \frac{81}{499}, \frac{152}{499}, \frac{357}{499}, \frac{85}{499}, -\frac{189}{499}, \frac{89}{499}, \frac{160}{499})$ $+ \frac{6}{499}\sqrt{12558}e^5 \otimes e_7$	{1235, 12356, 12568, 1258, 1367, 137, 1678, 178, 236789, 23789, 2679, 279, 35689, 3589, 569, 59}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{9}{112}\sqrt{14}e^{13}, \frac{3}{56}\sqrt{23}e^{14} + \frac{3}{28}\sqrt{7}e^{25}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{5}{56}, \frac{31}{112}, \frac{3}{112}, -\frac{15}{112}, -\frac{1}{14}, -\frac{1}{14}, \frac{13}{112})$ $+ \frac{3}{112}\sqrt{134}e^3 \otimes e_7 + \frac{3}{112}\sqrt{190}e^2 \otimes e_8 + \frac{3}{56}\sqrt{23}e^5 \otimes e_6$	{123469, 1235, 145789, 1678, 2457, 2679, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{405}\sqrt{1133}e^{12}, \frac{2}{405}\sqrt{14214}e^{13}, \frac{2}{405}\sqrt{5459}e^{14} + \frac{8}{405}\sqrt{103}e^{25}$	$(\frac{104}{405}, -\frac{7}{135}, \frac{73}{405}, -\frac{34}{135}, \frac{23}{405}, -\frac{133}{405}, \frac{83}{405}, \frac{59}{135}, \frac{2}{405})$ $+ \frac{2}{405}\sqrt{19982}e^1 \otimes e_4 + \frac{4}{405}\sqrt{4429}e^3 \otimes e_6$	{1235, 12568, 137, 1678, 234578, 24567, 348, 46}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{9}{112}\sqrt{14}e^{13}, \frac{3}{56}\sqrt{23}e^{14} + \frac{3}{28}\sqrt{7}e^{25}$	$(-\frac{9}{56}, \frac{5}{56}, \frac{5}{56}, \frac{31}{112}, \frac{3}{112}, -\frac{15}{112}, -\frac{1}{14}, -\frac{1}{14}, \frac{13}{112})$ $- \frac{3}{112}\sqrt{134}e^3 \otimes e_7 + \frac{3}{112}\sqrt{190}e^2 \otimes e_8 + \frac{3}{56}\sqrt{23}e^5 \otimes e_6$	{123469, 1235, 145789, 1678, 2457, 2679, 3468, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7293}e^{12}, \frac{2}{391}\sqrt{10582}e^{13},$ $\frac{1}{391}\sqrt{22451}e^{14} + \frac{1}{391}\sqrt{28457}e^{25}$	$(-\frac{5}{34}, \frac{241}{782}, \frac{35}{391}, \frac{116}{391}, -\frac{62}{391}, -\frac{108}{391}, \frac{63}{391}, -\frac{45}{782}, \frac{117}{782})$ $+ \frac{1}{391}\sqrt{41613}e^3 \otimes e_6 + \frac{52}{391}\sqrt{22}e^2 \otimes e_8$	{12349, 1235, 1456789, 1678, 24567, 2679, 348, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{69637}e^{12}, \frac{1}{1187}\sqrt{236598}e^{13},$ $\frac{1}{1187}\sqrt{199682}e^{14} + \frac{10}{1187}\sqrt{839}e^{25}$	$(-\frac{291}{1187}, \frac{19}{1187}, \frac{567}{1187}, \frac{495}{1187}, \frac{185}{1187}, -\frac{344}{1187}, -\frac{272}{1187}, \frac{276}{1187}, \frac{204}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^4 \otimes e_6 + \frac{1}{1187}\sqrt{961494}e^3 \otimes e_7$	{1234, 123569, 14578, 16789, 24579, 267, 3489, 3568}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{1459}\sqrt{1290}e^{12}, \frac{10}{1459}\sqrt{2310}e^{13},$ $\frac{10}{1459}\sqrt{1290}e^{14} + \frac{10}{1459}\sqrt{4030}e^{25}$	$(-\frac{105}{1459}, \frac{110}{1459}, -\frac{105}{1459}, \frac{505}{1459}, \frac{290}{1459}, -\frac{390}{1459}, \frac{5}{1459}, -\frac{210}{1459}, \frac{400}{1459})$ $+ \frac{20}{1459}\sqrt{1290}e^2 \otimes e_6 + \frac{500}{1459}e^4 \otimes e_7 + \frac{90}{1459}\sqrt{70}e^5 \otimes e_8$	{12489, 1678, 23789, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{645}e^{12}, \frac{2}{67}\sqrt{258}e^{13}, \frac{1}{67}\sqrt{731}e^{14} + \frac{3}{67}\sqrt{129}e^{25}$	$(-\frac{7}{134}, -\frac{27}{134}, \frac{23}{67}, \frac{16}{67}, \frac{26}{67}, -\frac{20}{67}, -\frac{17}{67}, \frac{39}{134}, \frac{25}{134})$ $+ \frac{1}{67}\sqrt{2365}e^3 \otimes e_6 + \frac{8}{67}\sqrt{43}e^5 \otimes e_7$	{1235, 12568, 137, 1678, 23789, 2679, 3589, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{6}{31}\sqrt{26}e^{13}, \frac{1}{31}\sqrt{195}e^{14} + \frac{1}{31}\sqrt{273}e^{25}$	$(-\frac{3}{62}, \frac{9}{62}, \frac{19}{31}, \frac{8}{31}, \frac{2}{31}, -\frac{20}{31}, \frac{3}{31}, \frac{35}{62}, \frac{13}{62})$ $+ \frac{3}{31}\sqrt{221}e^3 \otimes e_6$	{123479, 12357, 1246789, 125678, 13, 13459, 145689, 168, 23458, 2389, 2456, 269, 3478, 35789, 467, 5679}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2010}e^{12}, \frac{4}{169}\sqrt{1005}e^{13},$ $\frac{2}{169}\sqrt{2747}e^{14} + \frac{4}{169}\sqrt{1005}e^{25}$	$(-\frac{22}{169}, \frac{79}{169}, -\frac{33}{169}, \frac{68}{169}, -\frac{33}{169}, \frac{27}{169}, \frac{57}{169}, -\frac{55}{169}, \frac{46}{169})$ $+ \frac{2}{169}\sqrt{9514}e^2 \otimes e_8$	{123469, 12349, 1235, 12356, 1456789, 145789, 1678, 178, 24567, 2457, 2679, 279, 3468, 348, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{189222}e^{12}, \frac{7}{1315}\sqrt{4026}e^{13},$ $\frac{2}{1315}\sqrt{142923}e^{14} + \frac{1}{1315}\sqrt{57706}e^{25}$	$(\frac{65}{263}, -\frac{58}{1315}, -\frac{346}{1315}, -\frac{60}{263}, \frac{83}{1315}, \frac{696}{1315}, \frac{267}{1315}, -\frac{21}{1315}, \frac{5}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_3 + \frac{2}{1315}\sqrt{191235}e^6 \otimes e_9$	{12456, 129, 1467, 1579, 23479, 23567, 3459, 36}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{59}\sqrt{10}e^{12}, \frac{4}{59}\sqrt{26}e^{13}, \frac{8}{59}e^{14} + \frac{4}{59}\sqrt{26}e^{25}$	$(\frac{6}{59}, -\frac{13}{59}, \frac{12}{59}, -\frac{10}{59}, \frac{9}{59}, \frac{5}{59}, -\frac{7}{59}, \frac{18}{59}, -\frac{4}{59})$ $+ \frac{4}{59}\sqrt{34}e^1 \otimes e_4 + \frac{4}{59}\sqrt{34}e^5 \otimes e_7 + \frac{8}{59}\sqrt{10}e^3 \otimes e_9$	{1235, 12356, 1367, 137}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{210}e^{12}, \frac{3}{77}\sqrt{70}e^{13}, \frac{1}{77}\sqrt{435}e^{14} + \frac{3}{77}\sqrt{70}e^{25}$	$(\frac{27}{154}, -\frac{1}{77}, -\frac{31}{154}, -\frac{3}{154}, \frac{13}{77}, -\frac{16}{77}, \frac{25}{154}, -\frac{2}{77}, \frac{12}{77})$ $+ \frac{1}{77}\sqrt{645}e^1 \otimes e_4 + \frac{1}{77}\sqrt{645}e^2 \otimes e_6 + \frac{3}{77}\sqrt{95}e^5 \otimes e_8$	{1235, 1678, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{2}{103}\sqrt{442}e^{13}, \frac{2}{103}\sqrt{299}e^{14} + \frac{4}{103}\sqrt{65}e^{25}$	$(-\frac{26}{103}, \frac{17}{103}, \frac{17}{103}, \frac{32}{103}, -\frac{11}{103}, \frac{9}{103}, -\frac{9}{103}, -\frac{9}{103}, \frac{6}{103})$ $- \frac{2}{103}\sqrt{546}e^3 \otimes e_7 + \frac{52}{103}e^2 \otimes e_8$	{123469, 12349, 1235, 12356, 1456789, 145789, 1678, 178, 24567, 2457, 2679, 279, 3468, 348, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{2}{103}\sqrt{442}e^{13}, \frac{2}{103}\sqrt{299}e^{14} + \frac{4}{103}\sqrt{65}e^{25}$	$(-\frac{26}{103}, \frac{17}{103}, \frac{17}{103}, \frac{32}{103}, -\frac{11}{103}, \frac{9}{103}, -\frac{9}{103}, -\frac{9}{103}, \frac{6}{103})$ $+ \frac{2}{103}\sqrt{546}e^3 \otimes e_7 + \frac{52}{103}e^2 \otimes e_8$	{123469, 12349, 1235, 12356, 1456789, 145789, 1678, 178, 24567, 2457, 2679, 279, 3468, 348, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{121}\sqrt{5}e^{12}, \frac{7}{121}\sqrt{57}e^{13}, \frac{7}{121}\sqrt{5}e^{14} + \frac{14}{121}\sqrt{6}e^{25}$	$(-\frac{23}{121}, -\frac{4}{121}, \frac{2}{11}, \frac{48}{121}, \frac{29}{121}, -\frac{20}{121}, -\frac{27}{121}, -\frac{1}{121}, \frac{25}{121})$ $+ \frac{28}{121}\sqrt{5}e^3 \otimes e_7 + \frac{28}{121}\sqrt{5}e^4 \otimes e_8 + \frac{7}{121}\sqrt{61}e^5 \otimes e_6$	{12345, 15789, 24679, 368}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{127}\sqrt{7482}e^{12}, \frac{1}{127}\sqrt{5934}e^{13}, \frac{1}{127}\sqrt{7482}e^{14} + \frac{6}{127}\sqrt{86}e^{25}$	$(\frac{46}{127}, \frac{5}{127}, -\frac{1}{127}, -\frac{7}{127}, \frac{34}{127}, -\frac{83}{127}, \frac{51}{127}, \frac{45}{127}, \frac{39}{127})$ $+ \frac{3}{127}\sqrt{3010}e^1 \otimes e_6$	{1234, 12359, 1248, 12589, 13457, 1379, 14578, 1789, 23456789, 23678, 245679, 267, 34689, 3568, 469, 56}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{2}{103}\sqrt{442}e^{13}, \frac{2}{103}\sqrt{299}e^{14} + \frac{4}{103}\sqrt{65}e^{25}$	$(\frac{16}{103}, \frac{17}{103}, -\frac{25}{103}, -\frac{10}{103}, -\frac{11}{103}, \frac{9}{103}, \frac{33}{103}, -\frac{9}{103}, \frac{6}{103})$ $+ \frac{2}{103}\sqrt{546}e^1 \otimes e_4 + \frac{52}{103}e^2 \otimes e_8$	{1235, 12356, 1678, 178, 24567, 2457, 3468, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{16}{3509}\sqrt{5430}e^{12}, \frac{6}{3509}\sqrt{46698}e^{13},$ $\frac{2}{3509}\sqrt{280731}e^{14} + \frac{6}{3509}\sqrt{24254}e^{25}$	$(\frac{618}{3509}, -\frac{777}{3509}, \frac{421}{3509}, -\frac{468}{3509}, \frac{927}{3509}, -\frac{665}{3509}, -\frac{159}{3509}, \frac{1039}{3509}, \frac{150}{3509})$ $+ \frac{4}{3509}\sqrt{144438}e^5 \otimes e_7 + \frac{50}{3509}\sqrt{1086}e^1 \otimes e_4 + \frac{6}{3509}\sqrt{56110}e^3 \otimes e_6$	{1235, 12568, 137, 1678}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{1371}\sqrt{1558}e^{12}, \frac{4}{1371}\sqrt{15785}e^{13},$ $\frac{82}{1371}\sqrt{7}e^{14} + \frac{1}{1371}\sqrt{95858}e^{25}$	$(\frac{1}{457}, -\frac{65}{457}, \frac{95}{1371}, \frac{187}{1371}, \frac{385}{1371}, -\frac{284}{1371}, -\frac{64}{457}, \frac{98}{1371}, \frac{190}{1371})$ $+ \frac{1}{1371}\sqrt{223286}e^1 \otimes e_6 + \frac{1}{1371}\sqrt{256578}e^5 \otimes e_8 + \frac{2}{1371}\sqrt{61705}e^3 \otimes e_7$	{1235, 178, 24567, 3468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{14}{401}\sqrt{290}e^{12}, \frac{2}{401}\sqrt{4466}e^{13},$ $\frac{1}{401}\sqrt{17255}e^{14} + \frac{1}{401}\sqrt{8323}e^{25}$	$(-\frac{211}{802}, \frac{88}{401}, \frac{371}{802}, \frac{157}{802}, -\frac{115}{401}, \frac{36}{401}, -\frac{35}{802}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{3}{401}\sqrt{8729}e^3 \otimes e_7 + \frac{49}{401}\sqrt{29}e^2 \otimes e_5$	{123, 1236, 15678, 1578, 2467, 247, 34568, 3458}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{2}{67}\sqrt{94}e^{13}, \frac{1}{67}\sqrt{987}e^{14} + \frac{3}{67}\sqrt{47}e^{25}$	$(\frac{33}{134}, \frac{3}{134}, -\frac{61}{134}, -\frac{3}{67}, \frac{12}{67}, \frac{33}{67}, \frac{18}{67}, -\frac{14}{67}, \frac{27}{134})$ $+ \frac{1}{67}\sqrt{2397}e^6 \otimes e_8 + \frac{2}{67}\sqrt{799}e^1 \otimes e_3$	{1248, 12589, 14578, 1789, 2345789, 2378, 3489, 358}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{275}\sqrt{30}e^{12}, \frac{2}{275}\sqrt{795}e^{13}, \frac{6}{275}\sqrt{5}e^{14} + \frac{3}{275}\sqrt{310}e^{25}$	$(-\frac{1}{55}, -\frac{1}{11}, \frac{23}{275}, \frac{13}{275}, \frac{3}{25}, -\frac{4}{55}, -\frac{6}{55}, \frac{18}{275}, \frac{8}{275})$ $+ \frac{1}{275}\sqrt{3210}e^5 \otimes e_8 + \frac{2}{55}\sqrt{33}e^3 \otimes e_9 + \frac{3}{275}\sqrt{130}e^1 \otimes e_6$	{123457, 12789, 3678, 45679}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{78}e^{12}, \frac{4}{103}\sqrt{65}e^{13}, \frac{2}{103}\sqrt{299}e^{14} + \frac{2}{103}\sqrt{442}e^{25}$	$(-\frac{12}{103}, \frac{3}{103}, -\frac{11}{103}, \frac{32}{103}, \frac{17}{103}, \frac{9}{103}, -\frac{9}{103}, -\frac{23}{103}, \frac{20}{103})$ $+ \frac{2}{103}\sqrt{546}e^5 \otimes e_7 + \frac{52}{103}e^2 \otimes e_8$	{1235, 12356, 1678, 178, 2679, 279, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{405}\sqrt{1133}e^{12}, \frac{2}{405}\sqrt{14214}e^{13},$ $\frac{2}{405}\sqrt{5459}e^{14} + \frac{8}{405}\sqrt{103}e^{25}$	$(-\frac{2}{9}, -\frac{7}{135}, \frac{19}{81}, \frac{92}{405}, \frac{23}{405}, \frac{211}{405}, -\frac{37}{135}, \frac{81}{405}, \frac{2}{405})$ $+ \frac{2}{405}\sqrt{19982}e^3 \otimes e_7 + \frac{4}{405}\sqrt{4429}e^6 \otimes e_8$	{123469, 12356, 145789, 178, 24567, 2679, 348, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{110}{329}\sqrt{2}e^{12}, \frac{44}{329}\sqrt{13}e^{13}, \frac{22}{329}\sqrt{23}e^{14} + \frac{22}{329}\sqrt{3}e^{25}$	$(-\frac{43}{329}, \frac{129}{329}, \frac{131}{329}, \frac{59}{329}, -\frac{113}{329}, -\frac{111}{329}, \frac{86}{329}, \frac{88}{329}, \frac{16}{329})$ $+ \frac{22}{329}\sqrt{146}e^2 \otimes e_5 + \frac{22}{47}\sqrt{3}e^3 \otimes e_6$	{12349, 124689, 134579, 1456789, 23789, 2679, 3589, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{18}{955}\sqrt{302}e^{12}, \frac{4}{955}\sqrt{3171}e^{13},$ $\frac{18}{955}\sqrt{302}e^{14} + \frac{2}{955}\sqrt{16006}e^{25}$	$(\frac{29}{191}, -\frac{196}{955}, -\frac{157}{955}, -\frac{18}{191}, \frac{251}{955}, \frac{357}{955}, -\frac{51}{955}, -\frac{12}{955}, \frac{11}{191})$ $+ \frac{2}{955}\sqrt{43035}e^5 \otimes e_7 + \frac{2}{955}\sqrt{43035}e^6 \otimes e_9 + \frac{2}{955}\sqrt{47263}e^1 \otimes e_3$	{12456, 1467, 23479, 3459}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{149}\sqrt{247}e^{12}, \frac{1}{149}\sqrt{1157}e^{13}, \frac{1}{149}\sqrt{247}e^{14} + \frac{4}{149}\sqrt{91}e^{25}$	$(-\frac{15}{149}, \frac{16}{149}, \frac{18}{149}, \frac{20}{149}, -\frac{11}{149}, -\frac{24}{149}, \frac{1}{149}, \frac{3}{149}, \frac{5}{149})$ $+ \frac{1}{149}\sqrt{897}e^5 \otimes e_6 + \frac{26}{149}\sqrt{2}e^2 \otimes e_8 + \frac{26}{149}\sqrt{2}e^3 \otimes e_9$	{12357, 14589, 269, 34678}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{157}\sqrt{10}e^{12}, \frac{1}{157}\sqrt{3990}e^{13}, \frac{7}{157}\sqrt{10}e^{14} + \frac{1}{157}\sqrt{3990}e^{25}$	$(-\frac{28}{157}, \frac{36}{157}, \frac{29}{157}, \frac{22}{157}, -\frac{42}{157}, \frac{15}{157}, \frac{8}{157}, \frac{1}{157}, -\frac{6}{157})$ $+ \frac{1}{157}\sqrt{4970}e^2 \otimes e_8 + \frac{1}{157}\sqrt{4970}e^3 \otimes e_9$	{123567, 12357, 145689, 14589, 269, 29, 34678, 3478}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{1105}\sqrt{285}e^{12}, \frac{2}{1105}\sqrt{4522}e^{13},$ $\frac{2}{1105}\sqrt{13699}e^{14} + \frac{2}{1105}\sqrt{11438}e^{25}$	$(\frac{4}{65}, \frac{4}{65}, \frac{5}{221}, -\frac{198}{1105}, -\frac{198}{1105}, \frac{402}{1105}, \frac{8}{65}, \frac{93}{1105}, -\frac{2}{17})$ $+ \frac{12}{1105}\sqrt{1330}e^1 \otimes e_4 + \frac{98}{1105}\sqrt{19}e^2 \otimes e_5 + \frac{98}{1105}\sqrt{19}e^6 \otimes e_7$	{1236, 1268, 1357, 1578, 23478, 247, 34568, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{1105}\sqrt{285}e^{12}, \frac{2}{1105}\sqrt{4522}e^{13},$ $\frac{2}{1105}\sqrt{13699}e^{14} + \frac{2}{1105}\sqrt{11438}e^{25}$	$(\frac{4}{65}, \frac{4}{65}, \frac{5}{221}, -\frac{198}{1105}, -\frac{198}{1105}, \frac{402}{1105}, \frac{8}{65}, \frac{93}{1105}, -\frac{2}{17})$ $+ \frac{12}{1105}\sqrt{1330}e^1 \otimes e_4 - \frac{98}{1105}\sqrt{19}e^2 \otimes e_5 + \frac{98}{1105}\sqrt{19}e^6 \otimes e_7$	{1236, 1268, 1357, 1578, 23478, 247, 34568, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{662}\sqrt{103062}e^{12}, \frac{3}{331}\sqrt{534}e^{13},$ $\frac{3}{331}\sqrt{1157}e^{14} + \frac{1}{662}\sqrt{39783}e^{25}$	$(-\frac{375}{1324}, \frac{159}{662}, \frac{167}{1324}, \frac{477}{1324}, -\frac{54}{331}, \frac{163}{662}, -\frac{57}{1324}, -\frac{52}{331}, \frac{51}{662})$ $+ \frac{1}{331}\sqrt{30705}e^2 \otimes e_5 + \frac{1}{662}\sqrt{143646}e^4 \otimes e_7 + \frac{3}{662}\sqrt{6853}e^6 \otimes e_8$	{12348, 1246, 2367, 278}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{211}\sqrt{5605}e^{12}, \frac{1}{211}\sqrt{6313}e^{13},$ $\frac{1}{211}\sqrt{3835}e^{14} + \frac{2}{211}\sqrt{354}e^{25}$	$(\frac{27}{211}, -\frac{44}{211}, \frac{42}{211}, -\frac{32}{211}, \frac{39}{211}, -\frac{20}{211}, -\frac{17}{211}, \frac{69}{211}, -\frac{5}{211})$ $+ \frac{1}{211}\sqrt{4189}e^5 \otimes e_6 + \frac{4}{211}\sqrt{590}e^1 \otimes e_4 + \frac{4}{211}\sqrt{590}e^3 \otimes e_7$	{1235, 1678, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{4}{499}\sqrt{273}e^{13},$ $\frac{2}{499}\sqrt{18291}e^{14} + \frac{2}{499}\sqrt{38766}e^{25}$	$(\frac{8}{499}, \frac{217}{499}, \frac{81}{499}, \frac{152}{499}, -\frac{57}{499}, \frac{329}{499}, \frac{225}{499}, \frac{89}{499}, \frac{160}{499})$ $+ \frac{6}{499}\sqrt{12558}e^2 \otimes e_6$	{12349, 1235, 12489, 1258, 1345679, 1367, 1456789, 1678, 234578, 23789, 2457, 279, 3468, 35689, 46, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{138430}e^{12}, \frac{1}{1641}\sqrt{478790}e^{13},$ $\frac{2}{1641}\sqrt{23495}e^{14} + \frac{2}{1641}\sqrt{37465}e^{25}$	$(\frac{10}{547}, -\frac{54}{547}, \frac{503}{1641}, \frac{82}{1641}, \frac{274}{1641}, -\frac{605}{1641}, -\frac{44}{547}, \frac{533}{1641}, \frac{112}{1641})$ $+ \frac{1}{1641}\sqrt{966470}e^1 \otimes e_6 + \frac{2}{1641}\sqrt{229870}e^3 \otimes e_7$	{1234, 12359, 14578, 1789, 245679, 267, 34689, 3568}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{105}e^{12}, \frac{1}{24}\sqrt{21}e^{13}, \frac{1}{48}\sqrt{42}e^{14} + \frac{1}{24}\sqrt{21}e^{25}$	$(-\frac{3}{16}, \frac{5}{32}, \frac{5}{16}, \frac{1}{16}, -\frac{9}{32}, \frac{13}{32}, -\frac{1}{32}, \frac{1}{8}, -\frac{1}{8})$ $+ \frac{1}{48}\sqrt{546}e^3 \otimes e_9 + \frac{1}{48}\sqrt{651}e^2 \otimes e_5 + \frac{1}{48}\sqrt{651}e^6 \otimes e_7$	{12689, 15789, 2479, 4569}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{1357}\sqrt{10302}e^{12}, \frac{3}{1357}\sqrt{18382}e^{13},$ $\frac{1}{1357}\sqrt{91910}e^{14} + \frac{4}{1357}\sqrt{9191}e^{25}$	$(\frac{234}{1357}, -\frac{311}{1357}, \frac{33}{1357}, \frac{85}{1357}, \frac{630}{1357}, -\frac{473}{1357}, -\frac{77}{1357}, \frac{267}{1357}, \frac{319}{1357})$ $+ \frac{4}{1357}\sqrt{51611}e^5 \otimes e_7 + \frac{7}{1357}\sqrt{17978}e^1 \otimes e_6$	{12345, 12458, 1347, 1478, 2346789, 24679, 345689, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{12}, \frac{2}{43}\sqrt{21}e^{13}, \frac{1}{43}\sqrt{119}e^{14} + \frac{1}{43}\sqrt{203}e^{25}$	$(-\frac{35}{172}, \frac{6}{43}, \frac{3}{172}, \frac{45}{172}, -\frac{7}{86}, \frac{33}{86}, -\frac{11}{172}, -\frac{8}{43}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{329}e^4 \otimes e_7 + \frac{1}{43}\sqrt{357}e^6 \otimes e_9 + \frac{1}{43}\sqrt{413}e^2 \otimes e_8$	{123456, 15789, 2567, 34589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{521}\sqrt{94326}e^{12}, \frac{1}{521}\sqrt{39342}e^{13},$ $\frac{6}{521}\sqrt{1185}e^{14} + \frac{1}{521}\sqrt{39342}e^{25}$	$(-\frac{166}{521}, \frac{142}{521}, \frac{123}{521}, \frac{213}{521}, -\frac{95}{521}, \frac{40}{521}, -\frac{24}{521}, -\frac{43}{521}, \frac{47}{521})$ $+ \frac{1}{521}\sqrt{124662}e^4 \otimes e_7 + \frac{2}{521}\sqrt{25833}e^2 \otimes e_5$	{123468, 12348, 124, 1246, 2367, 237, 2678, 278}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{12}, \frac{2}{157}\sqrt{1155}e^{13},$ $\frac{1}{157}\sqrt{2310}e^{14} + \frac{2}{157}\sqrt{1155}e^{25}$	$(-\frac{25}{157}, \frac{55}{157}, -\frac{3}{157}, \frac{77}{157}, -\frac{3}{157}, -\frac{50}{157}, \frac{30}{157}, -\frac{28}{157}, \frac{52}{157})$ $+ \frac{3}{157}\sqrt{1610}e^2 \otimes e_6 + \frac{3}{157}\sqrt{1610}e^4 \otimes e_8$	{12345, 1289, 13467, 156789, 23578, 2479, 368, 4569}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{3}{28}\sqrt{7}e^{13}, \frac{3}{56}\sqrt{23}e^{14} + \frac{9}{112}\sqrt{14}e^{25}$	$(-\frac{29}{224}, \frac{13}{224}, \frac{3}{112}, \frac{31}{112}, \frac{5}{56}, -\frac{15}{112}, -\frac{1}{14}, -\frac{23}{224}, \frac{33}{224})$ $+ \frac{3}{112}\sqrt{134}e^5 \otimes e_7 + \frac{3}{112}\sqrt{190}e^2 \otimes e_8 + \frac{3}{56}\sqrt{23}e^3 \otimes e_6$	{1235, 1678, 2679, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{2483}\sqrt{6670}e^{12}, \frac{6}{2483}\sqrt{15962}e^{13},$ $\frac{12}{2483}\sqrt{4255}e^{14} + \frac{6}{2483}\sqrt{25438}e^{25}$	$(-\frac{355}{2483}, -\frac{1}{13}, \frac{919}{2483}, \frac{446}{2483}, \frac{282}{2483}, -\frac{2}{13}, -\frac{42}{191}, \frac{564}{2483}, \frac{7}{191})$ $+ \frac{12}{2483}\sqrt{7107}e^5 \otimes e_7 + \frac{6}{2483}\sqrt{27554}e^4 \otimes e_6 + \frac{6}{2483}\sqrt{48254}e^3 \otimes e_9$	{126789, 15689, 23568, 3678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{12}, \frac{2}{157}\sqrt{1155}e^{13},$ $\frac{1}{157}\sqrt{2310}e^{14} + \frac{2}{157}\sqrt{1155}e^{25}$	$(-\frac{25}{157}, \frac{14}{157}, \frac{66}{157}, \frac{8}{157}, -\frac{3}{157}, \frac{88}{157}, -\frac{39}{157}, \frac{41}{157}, -\frac{17}{157})$ $+ \frac{3}{157}\sqrt{1610}e^3 \otimes e_7 + \frac{3}{157}\sqrt{1610}e^6 \otimes e_9$	{123456, 1239, 14678, 15789, 2479, 2567, 34589, 368}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{12}, \frac{1}{43}\sqrt{203}e^{13}, \frac{1}{43}\sqrt{119}e^{14} + \frac{1}{43}\sqrt{322}e^{25}$	$(-\frac{9}{86}, \frac{6}{43}, -\frac{7}{86}, \frac{31}{86}, \frac{5}{43}, -\frac{9}{43}, \frac{3}{86}, -\frac{8}{43}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{210}e^4 \otimes e_7 + \frac{1}{43}\sqrt{357}e^5 \otimes e_6 + \frac{2}{43}\sqrt{133}e^2 \otimes e_8$	{123469, 1678, 2679, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{181}\sqrt{30}e^{12}, \frac{28}{181}\sqrt{6}e^{13}, \frac{14}{181}e^{14} + \frac{7}{181}\sqrt{102}e^{25}$	$(\frac{21}{181}, -\frac{21}{181}, \frac{42}{181}, -\frac{28}{181}, \frac{14}{181}, -\frac{35}{181}, 0, \frac{63}{181}, -\frac{7}{181})$ $+ \frac{35}{181}\sqrt{6}e^3 \otimes e_9 + \frac{70}{181}e^5 \otimes e_6 + \frac{7}{181}\sqrt{82}e^1 \otimes e_4$	{126789, 1589, 2469, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{149}\sqrt{642}e^{12}, \frac{1}{149}\sqrt{2782}e^{13}, \frac{3}{149}\sqrt{642}e^{14} + \frac{1}{149}\sqrt{2782}e^{25}$	$(-\frac{26}{149}, \frac{68}{149}, \frac{28}{149}, \frac{55}{149}, -\frac{39}{149}, -\frac{52}{149}, \frac{42}{149}, \frac{2}{149}, \frac{29}{149})$ $+ \frac{1}{149}\sqrt{14338}e^2 \otimes e_5 + \frac{1}{149}\sqrt{14338}e^4 \otimes e_6$	{12348, 124, 134578, 1457, 2367, 2678, 356, 568}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{4334}e^{12}, \frac{2}{313}\sqrt{6501}e^{13},$ $\frac{1}{313}\sqrt{13002}e^{14} + \frac{2}{313}\sqrt{6501}e^{25}$	$(-\frac{49}{313}, \frac{77}{313}, \frac{154}{313}, \frac{6}{313}, -\frac{120}{313}, \frac{39}{313}, \frac{28}{313}, \frac{105}{313}, -\frac{43}{313})$ $+ \frac{1}{313}\sqrt{36642}e^2 \otimes e_5 + \frac{1}{313}\sqrt{71314}e^3 \otimes e_9$	{126789, 12789, 15689, 1589, 2469, 249, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{12}{151}\sqrt{30}e^{12}, \frac{8}{151}\sqrt{3}e^{13}, \frac{4}{151}\sqrt{58}e^{14} + \frac{4}{151}\sqrt{66}e^{25}$	$(\frac{91}{604}, -\frac{117}{604}, -\frac{165}{604}, \frac{11}{302}, \frac{115}{302}, \frac{91}{302}, -\frac{13}{302}, -\frac{37}{302}, \frac{113}{604})$ $+ \frac{4}{151}\sqrt{262}e^6 \otimes e_8 + \frac{8}{151}\sqrt{105}e^1 \otimes e_3 + \frac{8}{151}\sqrt{106}e^5 \otimes e_7$	{12458, 1478, 234789, 34589}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{891}\sqrt{1110}e^{12}, \frac{4}{297}\sqrt{555}e^{13},$ $\frac{20}{891}\sqrt{111}e^{14} + \frac{8}{891}\sqrt{1110}e^{25}$	$(\frac{29}{891}, -\frac{122}{891}, \frac{229}{891}, -\frac{2}{81}, \frac{43}{297}, -\frac{193}{891}, -\frac{31}{297}, \frac{86}{297}, \frac{7}{891})$ $+ \frac{2}{891}\sqrt{23421}e^5 \otimes e_7 + \frac{2}{891}\sqrt{30081}e^1 \otimes e_6 + \frac{2}{891}\sqrt{36741}e^3 \otimes e_9$	{12345, 1347, 24679, 4569}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{18291}e^{12}, \frac{4}{499}\sqrt{273}e^{13},$ $\frac{28}{499}\sqrt{195}e^{14} + \frac{2}{499}\sqrt{38766}e^{25}$	$(\frac{8}{499}, \frac{10}{499}, \frac{81}{499}, -\frac{55}{499}, -\frac{57}{499}, 1, \frac{18}{499}, \frac{89}{499}, -\frac{47}{499})$ $+ \frac{6}{499}\sqrt{12558}e^6 \otimes e_9$	{1234567, 12379, 1245678, 12789, 1346, 1359, 1468, 1589, 23489, 23568, 249, 256, 345789, 3678, 4579, 67}
93:9	$0, 0, 0, 0, 0, 0, \frac{16}{3509}\sqrt{5430}e^{12}, \frac{6}{3509}\sqrt{46698}e^{13},$ $\frac{2}{3509}\sqrt{280731}e^{14} + \frac{6}{3509}\sqrt{24254}e^{25}$	$(\frac{618}{3509}, -\frac{777}{3509}, -\frac{509}{3509}, -\frac{468}{3509}, \frac{927}{3509}, \frac{1195}{3509}, -\frac{159}{3509}, \frac{109}{3509}, \frac{150}{3509})$ $+ \frac{4}{3509}\sqrt{144438}e^5 \otimes e_7 + \frac{50}{3509}\sqrt{1086}e^1 \otimes e_4 + \frac{6}{3509}\sqrt{56110}e^6 \otimes e_8$	{12356, 1258, 1367, 178}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{451}\sqrt{402}e^{12}, \frac{20}{451}\sqrt{6}e^{13}, \frac{10}{451}\sqrt{219}e^{14} + \frac{10}{451}\sqrt{390}e^{25}$	$(-\frac{16}{451}, -\frac{20}{451}, \frac{45}{451}, \frac{114}{451}, \frac{114}{451}, -\frac{170}{451}, -\frac{36}{451}, \frac{29}{451}, \frac{94}{451})$ $+ \frac{30}{451}\sqrt{69}e^2 \otimes e_6 + \frac{30}{451}\sqrt{69}e^5 \otimes e_7$	{12358, 125, 13678, 167, 2379, 2789, 3569, 5689}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{451}\sqrt{402}e^{12}, \frac{10}{451}\sqrt{390}e^{13}, \frac{10}{451}\sqrt{219}e^{14} + \frac{20}{451}\sqrt{6}e^{25}$	$(\frac{53}{451}, -\frac{89}{451}, \frac{114}{451}, -\frac{97}{451}, \frac{45}{451}, \frac{37}{451}, -\frac{36}{451}, \frac{167}{451}, -\frac{4}{41})$ $+ \frac{30}{451}\sqrt{69}e^1 \otimes e_4 + \frac{30}{451}\sqrt{69}e^3 \otimes e_7$	{123, 1236, 15678, 1578, 2467, 247, 34568, 3458}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{1}{31}\sqrt{273}e^{13}, \frac{1}{31}\sqrt{195}e^{14} + \frac{6}{31}\sqrt{26}e^{25}$	$(\frac{7}{31}, -\frac{4}{31}, \frac{2}{31}, \frac{8}{31}, \frac{19}{31}, -\frac{20}{31}, \frac{3}{31}, \frac{9}{31}, \frac{15}{31})$ $+ \frac{3}{31}\sqrt{221}e^5 \otimes e_6$	{1234679, 12357, 1246789, 12578, 13459, 136, 14589, 168, 23458, 23689, 245, 269, 34678, 35789, 467, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{110}{329}\sqrt{2}e^{12}, \frac{44}{329}\sqrt{13}e^{13}, \frac{22}{329}\sqrt{23}e^{14} + \frac{22}{329}\sqrt{3}e^{25}$	$(-\frac{43}{329}, \frac{129}{329}, -\frac{16}{329}, \frac{59}{329}, -\frac{113}{329}, \frac{183}{329}, \frac{86}{329}, -\frac{59}{329}, \frac{16}{329})$ $+ \frac{22}{329}\sqrt{146}e^2 \otimes e_5 + \frac{22}{47}\sqrt{3}e^6 \otimes e_8$	{123469, 12489, 1345679, 145789, 23789, 2679, 3589, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{21}e^{12}, \frac{1}{59}\sqrt{462}e^{13}, \frac{2}{59}\sqrt{105}e^{14} + \frac{1}{59}\sqrt{210}e^{25}$	$(-\frac{14}{59}, \frac{2}{59}, \frac{9}{59}, \frac{16}{59}, 0, \frac{23}{59}, -\frac{12}{59}, -\frac{5}{59}, \frac{2}{59})$ $+ \frac{21}{59}\sqrt{2}e^4 \otimes e_8 + \frac{3}{59}\sqrt{70}e^3 \otimes e_7 + \frac{6}{59}\sqrt{21}e^6 \otimes e_9$	{12789, 1346, 23568, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{13}e^{12}, \frac{2}{9}\sqrt{2}e^{13}, \frac{1}{9}\sqrt{13}e^{14} + \frac{2}{9}\sqrt{2}e^{25}$	$(\frac{1}{36}, -\frac{1}{12}, -\frac{7}{36}, \frac{1}{6}, \frac{5}{18}, \frac{1}{18}, -\frac{1}{18}, -\frac{1}{6}, \frac{7}{36})$ $+ \frac{1}{9}\sqrt{17}e^1 \otimes e_3 + \frac{1}{9}\sqrt{17}e^4 \otimes e_7$	{124, 1246, 1679, 179, 2367, 237, 3469, 349}
93:9	$0, 0, 0, 0, 0, 0, \frac{24}{613}\sqrt{30}e^{12}, \frac{4}{613}\sqrt{1545}e^{13}, \frac{20}{613}\sqrt{2}e^{14} + \frac{4}{613}\sqrt{1545}e^{25}$	$(-\frac{35}{613}, -\frac{45}{613}, \frac{63}{613}, \frac{58}{613}, \frac{68}{613}, -\frac{40}{613}, -\frac{80}{613}, \frac{28}{613}, \frac{23}{613})$ $+ \frac{4}{613}\sqrt{1645}e^5 \otimes e_8 + \frac{72}{613}\sqrt{5}e^3 \otimes e_9 + \frac{8}{613}\sqrt{110}e^6 \otimes e_7$	{123567, 1246789, 34678, 5679}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{2}{499}\sqrt{38766}e^{13}, \frac{2}{499}\sqrt{18291}e^{14} + \frac{4}{499}\sqrt{273}e^{25}$	$(\frac{284}{499}, -\frac{59}{499}, -\frac{57}{499}, \frac{262}{499}, \frac{81}{499}, \frac{85}{499}, \frac{225}{499}, \frac{227}{499}, \frac{22}{499})$ $+ \frac{6}{499}\sqrt{12558}e^1 \otimes e_4$	{1235, 12356, 12568, 1258, 1367, 137, 1678, 178, 2345678, 234578, 24567, 2457, 3468, 348, 4, 46}
93:9	$0, 0, 0, 0, 0, 0, \frac{5}{204}\sqrt{130}e^{12}, \frac{5}{816}\sqrt{1510}e^{13}, \frac{5}{408}\sqrt{715}e^{14} + \frac{5}{272}\sqrt{110}e^{25}$	$(\frac{5}{544}, -\frac{1}{12}, -\frac{235}{1632}, \frac{43}{544}, \frac{35}{204}, \frac{197}{816}, -\frac{121}{1632}, -\frac{55}{408}, \frac{3}{34})$ $+ \frac{5}{408}\sqrt{390}e^6 \otimes e_9 + \frac{5}{816}\sqrt{3095}e^1 \otimes e_3 + \frac{5}{816}\sqrt{3095}e^4 \otimes e_7$	{1246, 179, 2367, 349}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{12}, \frac{1}{43}\sqrt{203}e^{13}, \frac{1}{43}\sqrt{119}e^{14} + \frac{1}{43}\sqrt{322}e^{25}$	$(\frac{3}{43}, \frac{6}{43}, -\frac{11}{43}, \frac{8}{43}, \frac{5}{43}, -\frac{9}{43}, \frac{9}{43}, -\frac{8}{43}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{210}e^1 \otimes e_3 + \frac{1}{43}\sqrt{357}e^5 \otimes e_6 + \frac{2}{43}\sqrt{133}e^2 \otimes e_8$	{145789, 1678, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{331}\sqrt{103062}e^{12}, \frac{3}{331}\sqrt{534}e^{13}, \frac{3}{331}\sqrt{1157}e^{14} + \frac{1}{662}\sqrt{39783}e^{25}$	$(\frac{163}{1324}, \frac{159}{662}, -\frac{371}{1324}, -\frac{61}{1324}, -\frac{54}{331}, \frac{163}{662}, \frac{481}{1324}, -\frac{52}{331}, \frac{51}{662})$ $+ \frac{1}{331}\sqrt{30705}e^2 \otimes e_5 + \frac{1}{662}\sqrt{143646}e^1 \otimes e_3 + \frac{3}{662}\sqrt{6853}e^6 \otimes e_8$	{1246, 14567, 2367, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{4334}e^{12}, \frac{2}{313}\sqrt{6501}e^{13}, \frac{1}{313}\sqrt{13002}e^{14} + \frac{2}{313}\sqrt{6501}e^{25}$	$(-\frac{49}{313}, -\frac{16}{313}, \frac{154}{313}, \frac{6}{313}, -\frac{27}{313}, \frac{132}{313}, -\frac{65}{313}, \frac{105}{313}, -\frac{43}{313})$ $+ \frac{1}{313}\sqrt{36642}e^6 \otimes e_7 + \frac{1}{313}\sqrt{71314}e^3 \otimes e_9$	{123457, 12789, 1346, 15689, 23568, 2469, 378, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7293}e^{12}, \frac{1}{391}\sqrt{28457}e^{13}, \frac{1}{391}\sqrt{22451}e^{14} + \frac{2}{391}\sqrt{10582}e^{25}$	$(-\frac{9}{391}, \frac{72}{391}, -\frac{62}{391}, \frac{116}{391}, \frac{35}{391}, -\frac{108}{391}, \frac{63}{391}, -\frac{71}{391}, \frac{107}{391})$ $+ \frac{1}{391}\sqrt{41613}e^5 \otimes e_6 + \frac{52}{391}\sqrt{22}e^2 \otimes e_8$	{123469, 1235, 145789, 1678, 2457, 2679, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{20}{1477}\sqrt{93}e^{12}, \frac{5}{1477}\sqrt{3594}e^{13}, \frac{60}{1477}\sqrt{3}e^{14} + \frac{60}{1477}\sqrt{22}e^{25}$	$(\frac{327}{1477}, -\frac{26}{211}, \frac{64}{1477}, -\frac{43}{1477}, \frac{171}{1477}, \frac{14}{211}, -\frac{150}{1477}, \frac{96}{1477}, -\frac{11}{1477})$ $+ \frac{15}{1477}\sqrt{142}e^1 \otimes e_4 + \frac{10}{1477}\sqrt{3390}e^3 \otimes e_9 + \frac{5}{1477}\sqrt{3606}e^5 \otimes e_8$	{123567, 12357, 34678, 3478}
93:9	$0, 0, 0, 0, 0, 0, \frac{30}{281}\sqrt{6}e^{12}, \frac{30}{281}\sqrt{10}e^{13}, \frac{10}{281}\sqrt{43}e^{14} + \frac{10}{281}\sqrt{2}e^{25}$	$(\frac{13}{281}, -\frac{39}{281}, \frac{24}{281}, -\frac{37}{281}, \frac{15}{281}, \frac{87}{281}, -\frac{26}{281}, \frac{37}{281}, -\frac{24}{281})$ $+ \frac{10}{281}\sqrt{70}e^6 \otimes e_8 + \frac{10}{281}\sqrt{97}e^1 \otimes e_4 + \frac{10}{281}\sqrt{97}e^3 \otimes e_7$	{12356, 178, 24567, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{515}e^{12}, \frac{2}{161}\sqrt{1030}e^{13}, \frac{2}{161}\sqrt{6386}e^{14} + \frac{2}{161}\sqrt{1030}e^{25}$	$(-\frac{20}{161}, \frac{6}{23}, \frac{37}{161}, \frac{99}{161}, \frac{37}{161}, -\frac{107}{161}, \frac{22}{161}, \frac{17}{161}, \frac{79}{161})$ $+ \frac{2}{161}\sqrt{13802}e^4 \otimes e_6$	{123478, 12356789, 1247, 125679, 13458, 13689, 145, 169, 23459, 236, 24589, 268, 3479, 3567, 4789, 5678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1541}\sqrt{755630}e^{12}, \frac{1}{1541}\sqrt{132430}e^{13}, \frac{13}{1541}\sqrt{1558}e^{14} + \frac{4}{1541}\sqrt{16359}e^{25}$	$(\frac{170}{1541}, \frac{465}{1541}, \frac{65}{1541}, -\frac{19}{1541}, -\frac{314}{1541}, -\frac{609}{1541}, \frac{635}{1541}, \frac{235}{1541}, \frac{151}{1541})$ $+ \frac{1}{1541}\sqrt{1182522}e^1 \otimes e_6 + \frac{4}{1541}\sqrt{61541}e^2 \otimes e_5$	{1234, 1248, 13457, 14578, 23678, 267, 3568, 56}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{1459}\sqrt{1290}e^{12}, \frac{10}{1459}\sqrt{2310}e^{13}, \frac{10}{1459}\sqrt{1290}e^{14} + \frac{10}{1459}\sqrt{4030}e^{25}$	$(\frac{145}{1459}, \frac{110}{1459}, -\frac{355}{1459}, \frac{255}{1459}, \frac{290}{1459}, -\frac{390}{1459}, \frac{255}{1459}, -\frac{210}{1459}, \frac{400}{1459})$ $+ \frac{20}{1459}\sqrt{1290}e^2 \otimes e_6 + \frac{500}{1459}e^1 \otimes e_3 + \frac{90}{1459}\sqrt{70}e^5 \otimes e_8$	{12489, 1678, 23789, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{46}{349}\sqrt{2}e^{12}, \frac{2}{349}\sqrt{4738}e^{13}, \frac{46}{349}\sqrt{2}e^{14} + \frac{2}{349}\sqrt{4738}e^{25}$	$(\frac{57}{349}, -\frac{52}{349}, -\frac{75}{349}, -\frac{35}{349}, \frac{74}{349}, \frac{114}{349}, \frac{5}{349}, -\frac{18}{349}, \frac{22}{349})$ $+ \frac{2}{349}\sqrt{6854}e^5 \otimes e_8 + \frac{4}{349}\sqrt{989}e^1 \otimes e_4 + \frac{4}{349}\sqrt{989}e^6 \otimes e_9$	{123567, 168, 2456, 34678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{119}e^{12}, \frac{1}{43}\sqrt{322}e^{13}, \frac{7}{43}\sqrt{3}e^{14} + \frac{1}{43}\sqrt{203}e^{25}$	$(-\frac{35}{172}, \frac{3}{172}, \frac{45}{172}, \frac{6}{43}, -\frac{7}{86}, \frac{33}{86}, -\frac{8}{43}, \frac{5}{86}, -\frac{11}{172})$ $+ \frac{1}{43}\sqrt{210}e^4 \otimes e_7 + \frac{1}{43}\sqrt{357}e^6 \otimes e_8 + \frac{2}{43}\sqrt{133}e^3 \otimes e_9$	{12789, 1346, 2469, 378}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{1369}\sqrt{3437}e^{12}, \frac{1}{1369}\sqrt{374142}e^{13},$ $\frac{2}{1369}\sqrt{69231}e^{14} + \frac{6}{1369}\sqrt{5401}e^{25}$	$(\frac{86}{1369}, \frac{2}{1369}, \frac{439}{1369}, -\frac{138}{1369}, -\frac{54}{1369}, -\frac{405}{1369}, \frac{88}{1369}, \frac{525}{1369}, -\frac{52}{1369})$ $+ \frac{26}{1369}\sqrt{982}e^3 \otimes e_9 + \frac{3}{1369}\sqrt{59902}e^1 \otimes e_6$	{123457, 12789, 134, 1589, 23568, 2469, 3678, 45679}
93:9	$0, 0, 0, 0, 0, 0, \frac{8}{463}\sqrt{249}e^{12}, \frac{1}{463}\sqrt{2490}e^{13},$ $\frac{8}{463}\sqrt{249}e^{14} + \frac{1}{463}\sqrt{66234}e^{25}$	$(-\frac{10}{463}, -\frac{116}{463}, \frac{54}{463}, \frac{17}{463}, \frac{123}{463}, \frac{256}{463}, -\frac{126}{463}, \frac{44}{463}, \frac{7}{463})$ $+ \frac{3}{463}\sqrt{11454}e^5 \otimes e_7 + \frac{3}{463}\sqrt{11454}e^6 \otimes e_9$	{1234568, 12456, 134678, 1467, 23479, 24789, 3459, 4589}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{23}e^{12}, \frac{9}{112}\sqrt{14}e^{13}, \frac{3}{112}\sqrt{70}e^{14} + \frac{3}{28}\sqrt{7}e^{25}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, \frac{3}{112}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56})$ $+ \frac{3}{112}\sqrt{134}e^4 \otimes e_8 + \frac{3}{112}\sqrt{190}e^3 \otimes e_9 + \frac{3}{56}\sqrt{23}e^5 \otimes e_6$	{123457, 126789, 1346, 1589, 2358, 2469, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{23}e^{12}, \frac{9}{112}\sqrt{14}e^{13}, \frac{3}{112}\sqrt{70}e^{14} + \frac{3}{28}\sqrt{7}e^{25}$	$(-\frac{9}{56}, \frac{3}{112}, \frac{3}{14}, \frac{3}{14}, \frac{3}{112}, -\frac{15}{112}, -\frac{15}{112}, \frac{3}{56}, \frac{3}{56})$ $- \frac{3}{112}\sqrt{134}e^4 \otimes e_8 + \frac{3}{112}\sqrt{190}e^3 \otimes e_9 + \frac{3}{56}\sqrt{23}e^5 \otimes e_6$	{123457, 126789, 1346, 1589, 2358, 2469, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{18105}e^{12}, \frac{4}{823}\sqrt{1955}e^{13},$ $\frac{10}{823}\sqrt{323}e^{14} + \frac{34}{823}\sqrt{55}e^{25}$	$(-\frac{3}{823}, -\frac{6}{823}, -\frac{173}{823}, \frac{158}{823}, \frac{161}{823}, \frac{63}{823}, -\frac{9}{823}, -\frac{176}{823}, \frac{155}{823})$ $+ \frac{10}{823}\sqrt{969}e^5 \otimes e_7 + \frac{24}{823}\sqrt{85}e^1 \otimes e_3 + \frac{2}{823}\sqrt{28135}e^2 \otimes e_8$	{1678, 178, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{405}\sqrt{5459}e^{12}, \frac{2}{405}\sqrt{14214}e^{13},$ $\frac{4}{405}\sqrt{1133}e^{14} + \frac{8}{405}\sqrt{103}e^{25}$	$(-\frac{2}{9}, \frac{76}{405}, \frac{73}{405}, \frac{7}{15}, \frac{23}{405}, -\frac{133}{405}, -\frac{14}{405}, -\frac{17}{405}, \frac{11}{45})$ $+ \frac{2}{405}\sqrt{19982}e^4 \otimes e_8 + \frac{4}{405}\sqrt{4429}e^3 \otimes e_6$	{123457, 126789, 134, 15689, 2358, 2469, 378, 45679}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{667}\sqrt{10}e^{12}, \frac{10}{667}\sqrt{890}e^{13},$ $\frac{10}{667}\sqrt{635}e^{14} + \frac{20}{667}\sqrt{330}e^{25}$	$(\frac{10}{667}, \frac{55}{667}, -\frac{5}{29}, \frac{190}{667}, \frac{5}{23}, -\frac{195}{667}, \frac{65}{667}, -\frac{105}{667}, \frac{200}{667})$ $+ \frac{10}{667}\sqrt{1290}e^2 \otimes e_6 + \frac{10}{667}\sqrt{1730}e^5 \otimes e_8$	{1235, 12489, 1345679, 1678, 23789, 2457, 3468, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{667}\sqrt{635}e^{12}, \frac{10}{667}\sqrt{890}e^{13},$ $\frac{10}{667}\sqrt{10}e^{14} + \frac{20}{667}\sqrt{330}e^{25}$	$(\frac{10}{667}, -\frac{74}{667}, -\frac{5}{29}, \frac{61}{667}, \frac{5}{23}, \frac{321}{667}, -\frac{64}{667}, -\frac{105}{667}, \frac{71}{667})$ $+ \frac{10}{667}\sqrt{1290}e^6 \otimes e_9 + \frac{10}{667}\sqrt{1730}e^5 \otimes e_8$	{1234567, 12789, 1359, 1468, 23489, 256, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{199682}e^{12}, \frac{1}{1187}\sqrt{236598}e^{13},$ $\frac{2}{1187}\sqrt{69637}e^{14} + \frac{10}{1187}\sqrt{839}e^{25}$	$(-\frac{291}{1187}, \frac{66}{1187}, -\frac{6}{1187}, \frac{542}{1187}, \frac{185}{1187}, \frac{614}{1187}, -\frac{225}{1187}, -\frac{297}{1187}, \frac{251}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^6 \otimes e_7 + \frac{1}{1187}\sqrt{961494}e^4 \otimes e_8$	{12346, 125689, 13457, 1789, 2378, 24579, 3568, 469}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{179}\sqrt{1245}e^{12}, \frac{1}{179}\sqrt{2730}e^{13}, \frac{6}{179}\sqrt{130}e^{14} + \frac{30}{179}e^{25}$	$(-\frac{91}{358}, \frac{29}{179}, \frac{35}{179}, \frac{87}{358}, -\frac{31}{179}, \frac{58}{179}, -\frac{33}{358}, -\frac{21}{358}, -\frac{2}{179})$ $+ \frac{1}{179}\sqrt{6090}e^2 \otimes e_5 + \frac{1}{179}\sqrt{8430}e^4 \otimes e_7 + \frac{3}{179}\sqrt{610}e^6 \otimes e_9$	{123468, 1246, 2367, 2678}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{905}\sqrt{3298}e^{12}, \frac{12}{905}\sqrt{799}e^{13},$ $\frac{6}{905}\sqrt{1751}e^{14} + \frac{18}{905}\sqrt{17}e^{25}$	$(\frac{129}{905}, \frac{129}{905}, -\frac{124}{905}, -\frac{177}{905}, -\frac{177}{905}, \frac{311}{905}, \frac{258}{905}, \frac{1}{181}, -\frac{48}{905})$ $+ \frac{12}{905}\sqrt{1462}e^1 \otimes e_4 - \frac{6}{181}\sqrt{170}e^2 \otimes e_5 + \frac{6}{905}\sqrt{4199}e^6 \otimes e_8$	{1236, 128, 13567, 1578, 23478, 2467, 3458, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{905}\sqrt{3298}e^{12}, \frac{12}{905}\sqrt{799}e^{13},$ $\frac{6}{905}\sqrt{1751}e^{14} + \frac{18}{905}\sqrt{17}e^{25}$	$(\frac{129}{905}, \frac{129}{905}, -\frac{124}{905}, -\frac{177}{905}, -\frac{177}{905}, \frac{311}{905}, \frac{258}{905}, \frac{1}{181}, -\frac{48}{905})$ $+ \frac{12}{905}\sqrt{1462}e^1 \otimes e_4 + \frac{6}{181}\sqrt{170}e^2 \otimes e_5 + \frac{6}{905}\sqrt{4199}e^6 \otimes e_8$	{1236, 128, 13567, 1578, 23478, 2467, 3458, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{1641}\sqrt{23495}e^{12}, \frac{1}{1641}\sqrt{478790}e^{13},$ $\frac{2}{1641}\sqrt{138430}e^{14} + \frac{2}{1641}\sqrt{37465}e^{25}$	$(\frac{10}{547}, \frac{200}{1641}, -\frac{221}{1641}, \frac{148}{547}, \frac{274}{1641}, -\frac{605}{1641}, \frac{230}{1641}, -\frac{191}{1641}, \frac{158}{547})$ $+ \frac{1}{1641}\sqrt{966470}e^1 \otimes e_6 + \frac{2}{1641}\sqrt{229870}e^4 \otimes e_8$	{1234, 12589, 13457, 1789, 23678, 245679, 3568, 469}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{12}, \frac{2}{157}\sqrt{1155}e^{13},$ $\frac{1}{157}\sqrt{2310}e^{14} + \frac{2}{157}\sqrt{1155}e^{25}$	$(\frac{44}{157}, -\frac{14}{157}, -\frac{3}{157}, -\frac{61}{157}, -\frac{3}{157}, \frac{88}{157}, \frac{30}{157}, \frac{41}{157}, -\frac{17}{157})$ $+ \frac{3}{157}\sqrt{1610}e^1 \otimes e_4 + \frac{3}{157}\sqrt{1610}e^6 \otimes e_9$	{1239, 1289, 13579, 15789, 234789, 2479, 34589, 459}
93:9	$0, 0, 0, 0, 0, 0, \frac{164}{3645}\sqrt{7}e^{12}, \frac{2}{3645}\sqrt{425334}e^{13},$ $\frac{14}{3645}\sqrt{3731}e^{14} + \frac{4}{3645}\sqrt{59122}e^{25}$	$(\frac{496}{3645}, -\frac{143}{1215}, -\frac{223}{3645}, -\frac{26}{1215}, \frac{847}{3645}, -\frac{797}{3645}, \frac{67}{3645}, \frac{91}{1215}, \frac{418}{3645})$ $+ \frac{2}{3645}\sqrt{271502}e^1 \otimes e_4 + \frac{4}{3645}\sqrt{73759}e^3 \otimes e_6 + \frac{8}{1215}\sqrt{2870}e^5 \otimes e_8$	{12357, 168, 2456, 3478}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{817}\sqrt{618}e^{12}, \frac{12}{817}\sqrt{141}e^{13}, \frac{18}{817}\sqrt{59}e^{14} + \frac{12}{817}\sqrt{141}e^{25}$	$(\frac{58}{817}, -\frac{25}{817}, -\frac{137}{817}, \frac{4}{817}, \frac{87}{817}, \frac{51}{817}, \frac{33}{817}, -\frac{79}{817}, \frac{62}{817})$ $+ \frac{18}{817}\sqrt{106}e^2 \otimes e_8 + \frac{24}{817}\sqrt{42}e^1 \otimes e_4 + \frac{24}{817}\sqrt{42}e^5 \otimes e_7$	{1235, 12356, 1678, 178}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{12}, \frac{6}{31}\sqrt{26}e^{13}, \frac{1}{31}\sqrt{195}e^{14} + \frac{1}{31}\sqrt{273}e^{25}$	$(-\frac{3}{62}, \frac{9}{62}, -\frac{13}{62}, \frac{8}{31}, \frac{2}{31}, 1, \frac{3}{31}, -\frac{8}{31}, \frac{13}{62})$ $+ \frac{3}{31}\sqrt{221}e^6 \otimes e_8$	{1234679, 123567, 124789, 12578, 134569, 136, 14589, 18, 23458, 2389, 2456, 269, 3478, 35789, 467, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{835}\sqrt{5907}e^{12}, \frac{3}{835}\sqrt{2506}e^{13},$ $\frac{1}{835}\sqrt{7518}e^{14} + \frac{1}{835}\sqrt{45466}e^{25}$	$(\frac{17}{167}, -\frac{52}{835}, -\frac{94}{835}, \frac{15}{167}, \frac{212}{835}, -\frac{231}{835}, \frac{33}{835}, -\frac{9}{835}, \frac{32}{167})$ $+ \frac{1}{835}\sqrt{102030}e^2 \otimes e_6 + \frac{1}{835}\sqrt{102030}e^5 \otimes e_7 + \frac{1}{835}\sqrt{75538}e^1 \otimes e_3$	{125, 167, 2379, 3569}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{3053}\sqrt{14291}e^{12}, \frac{12}{3053}\sqrt{3503}e^{13},$ $\frac{6}{3053}\sqrt{11067}e^{14} + \frac{6}{3053}\sqrt{30473}e^{25}$	$(-\frac{323}{3053}, \frac{16}{3053}, -\frac{219}{3053}, \frac{590}{3053}, \frac{251}{3053}, \frac{825}{3053}, -\frac{307}{3053}, -\frac{542}{3053}, \frac{267}{3053})$ $+ \frac{24}{3053}\sqrt{1147}e^6 \otimes e_9 + \frac{6}{3053}\sqrt{31031}e^5 \otimes e_7 + \frac{6}{3053}\sqrt{38037}e^2 \otimes e_8$	{12356, 1678, 279, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{2}{67}\sqrt{94}e^{13}, \frac{1}{67}\sqrt{987}e^{14} + \frac{3}{67}\sqrt{47}e^{25}$	$(-\frac{35}{134}, \frac{3}{134}, \frac{29}{67}, \frac{31}{67}, \frac{12}{67}, -\frac{18}{67}, -\frac{16}{67}, \frac{23}{134}, \frac{27}{134})$ $+ \frac{1}{67}\sqrt{2397}e^3 \otimes e_6 + \frac{2}{67}\sqrt{799}e^4 \otimes e_7$	{1234, 12468, 1379, 16789, 2378, 267, 3489, 469}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{3}{67}\sqrt{47}e^{13}, \frac{1}{67}\sqrt{987}e^{14} + \frac{2}{67}\sqrt{94}e^{25}$	$(\frac{25}{67}, -\frac{7}{67}, -\frac{22}{67}, -\frac{3}{67}, \frac{29}{67}, -\frac{18}{67}, \frac{18}{67}, \frac{3}{67}, \frac{22}{67})$ $+ \frac{1}{67}\sqrt{2397}e^5 \otimes e_6 + \frac{2}{67}\sqrt{799}e^1 \otimes e_3$	{1245, 1269, 1467, 1579, 234679, 2357, 3459, 36}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{87}e^{12}, \frac{6}{305}\sqrt{29}e^{13}, \frac{1}{305}\sqrt{16878}e^{14} + \frac{6}{305}\sqrt{29}e^{25}$	$(\frac{2}{61}, \frac{14}{305}, -\frac{77}{305}, \frac{4}{61}, \frac{16}{305}, \frac{117}{305}, \frac{24}{305}, -\frac{67}{305}, \frac{6}{61})$ $+ \frac{1}{305}\sqrt{16530}e^4 \otimes e_8 + \frac{1}{305}\sqrt{16530}e^6 \otimes e_9 + \frac{3}{305}\sqrt{1798}e^1 \otimes e_3$	{1289, 15789, 235678, 368}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{645}e^{12}, \frac{2}{67}\sqrt{258}e^{13}, \frac{1}{67}\sqrt{731}e^{14} + \frac{3}{67}\sqrt{129}e^{25}$	$(-\frac{7}{134}, -\frac{27}{134}, -\frac{9}{134}, \frac{16}{67}, \frac{26}{67}, \frac{35}{67}, -\frac{17}{67}, -\frac{8}{67}, \frac{25}{134})$ $+ \frac{1}{67}\sqrt{2365}e^6 \otimes e_8 + \frac{8}{67}\sqrt{43}e^5 \otimes e_7$	{12356, 1258, 1367, 178, 23789, 2679, 3589, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{21}e^{12}, \frac{1}{59}\sqrt{210}e^{13}, \frac{2}{59}\sqrt{105}e^{14} + \frac{1}{59}\sqrt{462}e^{25}$	$(-\frac{8}{59}, -\frac{4}{59}, 0, \frac{13}{59}, \frac{9}{59}, \frac{26}{59}, -\frac{12}{59}, -\frac{8}{59}, \frac{5}{59})$ $+ \frac{21}{59}\sqrt{2}e^6 \otimes e_9 + \frac{3}{59}\sqrt{70}e^5 \otimes e_7 + \frac{6}{59}\sqrt{21}e^4 \otimes e_8$	{12789, 1589, 23568, 3678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{11}\sqrt{2}e^{12}, \frac{1}{11}\sqrt{38}e^{13}, \frac{1}{11}\sqrt{2}e^{14} + \frac{2}{11}\sqrt{6}e^{25}$	$(\frac{2}{11}, -\frac{1}{11}, -\frac{13}{55}, \frac{7}{55}, \frac{2}{5}, -\frac{3}{11}, \frac{1}{11}, -\frac{3}{55}, \frac{17}{55})$ $+ \frac{1}{11}\sqrt{42}e^1 \otimes e_6 + \frac{2}{11}\sqrt{14}e^5 \otimes e_8$	{12357, 124789, 13459, 18, 23689, 2456, 34678, 5679}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{229}\sqrt{3162}e^{12}, \frac{6}{229}\sqrt{238}e^{13}, \frac{2}{229}\sqrt{2091}e^{14} + \frac{6}{229}\sqrt{238}e^{25}$	$(-\frac{40}{229}, \frac{43}{229}, -\frac{19}{229}, \frac{64}{229}, -\frac{19}{229}, \frac{105}{229}, \frac{3}{229}, -\frac{59}{229}, \frac{24}{229})$ $+ \frac{2}{229}\sqrt{4182}e^6 \otimes e_7 + \frac{4}{229}\sqrt{1581}e^2 \otimes e_8$	{123469, 12356, 145789, 178, 2457, 279, 3468, 35689}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{50}\sqrt{42}e^{12}, \frac{3}{100}\sqrt{14}e^{13}, \frac{21}{200}\sqrt{6}e^{14} + \frac{3}{20}\sqrt{7}e^{25}$	$(-\frac{3}{40}, -\frac{3}{400}, \frac{3}{50}, \frac{3}{10}, \frac{93}{400}, -\frac{129}{400}, -\frac{33}{400}, -\frac{3}{200}, \frac{9}{40})$ $+ \frac{21}{200}\sqrt{23}e^2 \otimes e_6 + \frac{21}{200}\sqrt{23}e^5 \otimes e_7 + \frac{3}{200}\sqrt{322}e^4 \otimes e_8$	{1258, 1678, 23789, 35689}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{159}\sqrt{1610}e^{12}, \frac{2}{159}\sqrt{770}e^{13}, \frac{1}{53}\sqrt{210}e^{14} + \frac{2}{159}\sqrt{595}e^{25}$	$(-\frac{35}{159}, \frac{2}{159}, \frac{13}{53}, \frac{13}{53}, \frac{2}{159}, \frac{13}{159}, -\frac{11}{53}, \frac{4}{159}, \frac{4}{159})$ $+ \frac{1}{159}\sqrt{1610}e^5 \otimes e_7 + \frac{1}{159}\sqrt{3710}e^4 \otimes e_8 + \frac{70}{159}e^3 \otimes e_9$	{126789, 12789, 15689, 1589, 23568, 2358, 3678, 378}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{159}\sqrt{1610}e^{12}, \frac{2}{159}\sqrt{770}e^{13}, \frac{1}{53}\sqrt{210}e^{14} + \frac{2}{159}\sqrt{595}e^{25}$	$(-\frac{35}{159}, \frac{2}{159}, \frac{13}{53}, \frac{13}{53}, \frac{2}{159}, \frac{13}{159}, -\frac{11}{53}, \frac{4}{159}, \frac{4}{159})$ $+ \frac{1}{159}\sqrt{1610}e^5 \otimes e_7 - \frac{1}{159}\sqrt{3710}e^4 \otimes e_8 + \frac{70}{159}e^3 \otimes e_9$	{126789, 12789, 15689, 1589, 23568, 2358, 3678, 378}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{2030}e^{12}, \frac{1}{139}\sqrt{3115}e^{13}, \frac{21}{139}\sqrt{5}e^{14} + \frac{2}{139}\sqrt{455}e^{25}$	$(-\frac{35}{139}, \frac{15}{139}, \frac{36}{139}, \frac{36}{139}, -\frac{14}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{210}e^6 \otimes e_7 - \frac{1}{139}\sqrt{3885}e^4 \otimes e_8 + \frac{1}{139}\sqrt{4795}e^3 \otimes e_9$	{123457, 12789, 1346, 15689, 23568, 2469, 378, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{2030}e^{12}, \frac{1}{139}\sqrt{3115}e^{13}, \frac{21}{139}\sqrt{5}e^{14} + \frac{2}{139}\sqrt{455}e^{25}$	$(-\frac{35}{139}, \frac{15}{139}, \frac{36}{139}, \frac{36}{139}, -\frac{14}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{210}e^6 \otimes e_7 + \frac{1}{139}\sqrt{3885}e^4 \otimes e_8 + \frac{1}{139}\sqrt{4795}e^3 \otimes e_9$	{123457, 12789, 1346, 15689, 23568, 2469, 378, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{905}\sqrt{3298}e^{12}, \frac{12}{905}\sqrt{799}e^{13},$ $\frac{6}{905}\sqrt{1751}e^{14} + \frac{18}{905}\sqrt{17}e^{25}$	$(-\frac{43}{181}, \frac{129}{905}, \frac{44}{181}, \frac{167}{905}, -\frac{177}{905}, \frac{311}{905}, -\frac{86}{905}, \frac{1}{181}, -\frac{48}{905})$ $+ \frac{12}{905}\sqrt{1462}e^3 \otimes e_7 + \frac{6}{181}\sqrt{170}e^2 \otimes e_5 + \frac{6}{905}\sqrt{4199}e^6 \otimes e_8$	{1236, 1578, 2467, 3458}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{1219}\sqrt{3306}e^{12}, \frac{1}{1219}\sqrt{274398}e^{13},$ $\frac{1}{1219}\sqrt{38570}e^{14} + \frac{2}{1219}\sqrt{110751}e^{25}$	$(-\frac{127}{1219}, \frac{310}{1219}, -\frac{114}{1219}, \frac{170}{1219}, -\frac{267}{1219}, \frac{594}{1219}, \frac{183}{1219}, -\frac{241}{1219}, \frac{43}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^2 \otimes e_8 + \frac{3}{1219}\sqrt{56202}e^6 \otimes e_9$	{12349, 12356, 145789, 1678, 24567, 279, 3468, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{2}{139}\sqrt{455}e^{13}, \frac{1}{139}\sqrt{2030}e^{14} + \frac{1}{139}\sqrt{3115}e^{25}$	$(-\frac{33}{278}, \frac{9}{278}, -\frac{14}{139}, \frac{44}{139}, \frac{23}{139}, -\frac{12}{139}, -\frac{61}{278}, \frac{55}{278})$ $+ \frac{1}{139}\sqrt{210}e^4 \otimes e_6 + \frac{1}{139}\sqrt{3885}e^5 \otimes e_7 + \frac{1}{139}\sqrt{4795}e^2 \otimes e_8$	{12356, 1678, 2679, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{14}{401}\sqrt{290}e^{12}, \frac{2}{401}\sqrt{4466}e^{13},$ $\frac{1}{401}\sqrt{17255}e^{14} + \frac{1}{401}\sqrt{8323}e^{25}$	$(\frac{88}{401}, \frac{88}{401}, -\frac{8}{401}, -\frac{115}{401}, -\frac{115}{401}, \frac{36}{401}, \frac{176}{401}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{3}{401}\sqrt{8729}e^1 \otimes e_4 - \frac{49}{401}\sqrt{29}e^2 \otimes e_5$	{123, 1236, 1268, 128, 13567, 1357, 15678, 1578, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{14}{401}\sqrt{290}e^{12}, \frac{2}{401}\sqrt{4466}e^{13},$ $\frac{1}{401}\sqrt{17255}e^{14} + \frac{1}{401}\sqrt{8323}e^{25}$	$(\frac{88}{401}, \frac{88}{401}, -\frac{8}{401}, -\frac{115}{401}, -\frac{115}{401}, \frac{36}{401}, \frac{176}{401}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{3}{401}\sqrt{8729}e^1 \otimes e_4 + \frac{49}{401}\sqrt{29}e^2 \otimes e_5$	{123, 1236, 1268, 128, 13567, 1357, 15678, 1578, 234678, 23478, 2467, 247, 34568, 3458, 45, 456}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{405}\sqrt{1133}e^{12}, \frac{2}{405}\sqrt{14214}e^{13},$ $\frac{2}{405}\sqrt{5459}e^{14} + \frac{8}{405}\sqrt{103}e^{25}$	$(\frac{104}{405}, -\frac{7}{135}, -\frac{11}{45}, \frac{34}{135}, \frac{23}{405}, \frac{211}{405}, \frac{83}{405}, \frac{1}{405}, \frac{2}{405})$ $+ \frac{2}{405}\sqrt{19982}e^1 \otimes e_4 + \frac{4}{405}\sqrt{4429}e^6 \otimes e_8$	{12356, 1258, 1367, 178, 234578, 24567, 348, 46}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22451}e^{12}, \frac{2}{391}\sqrt{10582}e^{13},$ $\frac{1}{391}\sqrt{7293}e^{14} + \frac{1}{391}\sqrt{28457}e^{25}$	$(-\frac{5}{34}, \frac{33}{782}, \frac{195}{782}, \frac{12}{391}, -\frac{62}{391}, \frac{183}{391}, -\frac{41}{391}, \frac{40}{391}, -\frac{91}{782})$ $+ \frac{1}{391}\sqrt{41613}e^6 \otimes e_8 + \frac{52}{391}\sqrt{22}e^3 \otimes e_9$	{1234567, 12789, 1346, 1589, 2358, 2469, 378, 45679}
93:9	$0, 0, 0, 0, 0, 0, \frac{8}{275}\sqrt{97}e^{12}, \frac{2}{275}\sqrt{2910}e^{13}, \frac{1}{275}\sqrt{291}e^{14} + \frac{1}{275}\sqrt{5529}e^{25}$	$(\frac{28}{275}, -\frac{73}{550}, \frac{56}{275}, -\frac{69}{275}, -\frac{9}{550}, \frac{177}{550}, -\frac{17}{550}, \frac{84}{275}, -\frac{41}{275})$ $+ \frac{1}{275}\sqrt{12513}e^6 \otimes e_7 + \frac{2}{275}\sqrt{4462}e^3 \otimes e_9 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_4$	{12356, 137, 234578, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{210}e^{12}, \frac{3}{77}\sqrt{70}e^{13}, \frac{1}{77}\sqrt{435}e^{14} + \frac{3}{77}\sqrt{70}e^{25}$	$(-\frac{8}{77}, -\frac{1}{77}, \frac{6}{77}, \frac{20}{77}, \frac{13}{77}, -\frac{16}{77}, -\frac{9}{77}, -\frac{2}{77}, \frac{12}{77})$ $+ \frac{1}{77}\sqrt{645}e^2 \otimes e_6 + \frac{1}{77}\sqrt{645}e^3 \otimes e_7 + \frac{3}{77}\sqrt{95}e^5 \otimes e_8$	{1235, 1678, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{50}\sqrt{42}e^{12}, \frac{3}{20}\sqrt{7}e^{13}, \frac{21}{200}\sqrt{6}e^{14} + \frac{3}{100}\sqrt{14}e^{25}$	$(\frac{39}{400}, -\frac{9}{50}, \frac{93}{400}, -\frac{87}{400}, \frac{3}{50}, \frac{39}{200}, -\frac{33}{400}, \frac{33}{100}, -\frac{3}{25})$ $+ \frac{21}{200}\sqrt{23}e^1 \otimes e_4 + \frac{21}{200}\sqrt{23}e^3 \otimes e_7 + \frac{3}{200}\sqrt{322}e^6 \otimes e_9$	{12356, 1678, 24567, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{361}\sqrt{21170}e^{12}, \frac{1}{361}\sqrt{8030}e^{13},$ $\frac{6}{361}\sqrt{146}e^{14} + \frac{1}{361}\sqrt{8030}e^{25}$	$(\frac{17}{361}, \frac{35}{361}, -\frac{56}{361}, -\frac{20}{361}, -\frac{2}{19}, \frac{125}{361}, \frac{52}{361}, -\frac{39}{361}, -\frac{3}{361})$ $+ \frac{1}{361}\sqrt{15914}e^2 \otimes e_5 + \frac{1}{361}\sqrt{15914}e^6 \otimes e_7 + \frac{1}{361}\sqrt{18542}e^1 \otimes e_3$	{1246, 1457, 237, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{69637}e^{12}, \frac{10}{1187}\sqrt{839}e^{13},$ $\frac{1}{1187}\sqrt{199682}e^{14} + \frac{1}{1187}\sqrt{236598}e^{25}$	$(-\frac{100}{1187}, -\frac{172}{1187}, \frac{185}{1187}, \frac{495}{1187}, \frac{567}{1187}, -\frac{344}{1187}, \frac{272}{1187}, \frac{85}{1187}, \frac{395}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^4 \otimes e_6 + \frac{1}{1187}\sqrt{961494}e^5 \otimes e_7$	{123458, 1245, 13478, 147, 23479, 24789, 3459, 4589}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{179}\sqrt{1245}e^{12}, \frac{30}{179}e^{13}, \frac{6}{179}\sqrt{130}e^{14} + \frac{1}{179}\sqrt{2730}e^{25}$	$(\frac{19}{358}, -\frac{13}{358}, -\frac{101}{358}, \frac{19}{179}, \frac{35}{179}, \frac{63}{179}, \frac{3}{179}, -\frac{41}{179}, \frac{57}{358})$ $+ \frac{1}{179}\sqrt{6090}e^6 \otimes e_7 + \frac{1}{179}\sqrt{8430}e^1 \otimes e_3 + \frac{3}{179}\sqrt{610}e^4 \otimes e_8$	{1246, 1457, 234579, 3469}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{403}\sqrt{2010}e^{12}, \frac{4}{403}\sqrt{134}e^{13},$ $\frac{4}{403}\sqrt{2010}e^{14} + \frac{2}{403}\sqrt{4623}e^{25}$	$(-\frac{16}{403}, -\frac{18}{403}, \frac{41}{403}, \frac{100}{403}, \frac{102}{403}, -\frac{150}{403}, -\frac{34}{403}, \frac{25}{403}, \frac{84}{403})$ $+ \frac{2}{403}\sqrt{12261}e^1 \otimes e_6 + \frac{2}{403}\sqrt{12529}e^4 \otimes e_7$	{12348, 124, 13789, 179, 2367, 2678, 3469, 4689}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{2757}\sqrt{671}e^{12}, \frac{2}{2757}\sqrt{199409}e^{13},$ $\frac{2}{2757}\sqrt{195139}e^{14} + \frac{4}{2757}\sqrt{2135}e^{25}$	$(\frac{15}{919}, -\frac{94}{2757}, -\frac{233}{2757}, \frac{222}{919}, \frac{805}{2757}, -\frac{809}{2757}, -\frac{49}{2757}, -\frac{188}{2757}, \frac{237}{919})$ $+ \frac{14}{2757}\sqrt{7747}e^4 \otimes e_8 + \frac{14}{2757}\sqrt{9089}e^1 \otimes e_6 + \frac{2}{2757}\sqrt{252357}e^5 \otimes e_7$	{12345, 1347, 24679, 4569}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{344}\sqrt{27249}e^{12}, \frac{1}{688}\sqrt{586}e^{13},$ $\frac{1}{344}\sqrt{3809}e^{14} + \frac{3}{344}\sqrt{879}e^{25}$	$(-\frac{161}{688}, \frac{315}{1376}, \frac{51}{688}, \frac{183}{688}, -\frac{271}{1376}, \frac{579}{1376}, -\frac{7}{1376}, -\frac{55}{344}, \frac{11}{344})$ $+ \frac{1}{688}\sqrt{140347}e^2 \otimes e_5 + \frac{1}{688}\sqrt{140347}e^6 \otimes e_7 + \frac{1}{688}\sqrt{93174}e^4 \otimes e_8$	{1246, 1457, 278, 568}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{189222}e^{12}, \frac{7}{1315}\sqrt{4026}e^{13},$ $\frac{2}{1315}\sqrt{142923}e^{14} + \frac{1}{1315}\sqrt{57706}e^{25}$	$(-\frac{294}{1315}, -\frac{58}{1315}, \frac{273}{1315}, \frac{319}{1315}, \frac{83}{1315}, \frac{696}{1315}, -\frac{352}{1315}, -\frac{21}{1315}, \frac{5}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^4 \otimes e_7 + \frac{2}{1315}\sqrt{191235}e^6 \otimes e_9$	{1234568, 12456, 135789, 1579, 23567, 25678, 3459, 4589}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{3749}\sqrt{32302}e^{12}, \frac{12}{3749}\sqrt{6758}e^{13},$ $\frac{6}{3749}\sqrt{21979}e^{14} + \frac{12}{3749}\sqrt{3565}e^{25}$	$(\frac{278}{3749}, \frac{211}{3749}, -\frac{625}{3749}, -\frac{280}{3749}, -\frac{213}{3749}, \frac{1047}{3749}, \frac{3}{23}, -\frac{347}{3749}, -\frac{2}{3749})$ $+ \frac{120}{3749}\sqrt{62}e^6 \otimes e_7 + \frac{12}{3749}\sqrt{9579}e^1 \otimes e_4 + \frac{6}{3749}\sqrt{45446}e^2 \otimes e_8$	{12356, 178, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{199682}e^{12}, \frac{10}{1187}\sqrt{839}e^{13},$ $\frac{2}{1187}\sqrt{69637}e^{14} + \frac{1}{1187}\sqrt{236598}e^{25}$	$(-\frac{100}{1187}, \frac{354}{1187}, \frac{185}{1187}, -\frac{31}{1187}, -\frac{485}{1187}, \frac{708}{1187}, \frac{254}{1187}, \frac{85}{1187}, -\frac{131}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^2 \otimes e_5 + \frac{1}{1187}\sqrt{961494}e^6 \otimes e_9$	{12389, 129, 135789, 1579, 23479, 24789, 3459, 4589}
93:9	$0, 0, 0, 0, 0, 0, \frac{14}{401}\sqrt{290}e^{12}, \frac{2}{401}\sqrt{4466}e^{13},$ $\frac{1}{401}\sqrt{17255}e^{14} + \frac{1}{401}\sqrt{8323}e^{25}$	$(\frac{88}{401}, -\frac{167}{802}, -\frac{8}{401}, -\frac{115}{401}, \frac{113}{802}, \frac{415}{802}, \frac{9}{802}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{3}{401}\sqrt{8729}e^1 \otimes e_4 + \frac{49}{401}\sqrt{29}e^6 \otimes e_7$	{1236, 1268, 1357, 1578, 23478, 247, 34568, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, \frac{1}{521}\sqrt{94326}e^{12}, \frac{1}{521}\sqrt{39342}e^{13},$ $\frac{6}{521}\sqrt{1185}e^{14} + \frac{1}{521}\sqrt{39342}e^{25}$	$(\frac{97}{521}, -\frac{76}{521}, -\frac{140}{521}, -\frac{50}{521}, \frac{123}{521}, \frac{258}{521}, \frac{21}{521}, -\frac{43}{521}, \frac{47}{521})$ $+ \frac{1}{521}\sqrt{124662}e^1 \otimes e_3 + \frac{2}{521}\sqrt{25833}e^6 \otimes e_7$	{1246, 12569, 1457, 179, 234579, 237, 3469, 356}
93:9	$0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{12}, \frac{1}{40}\sqrt{574}e^{13}, \frac{3}{40}\sqrt{123}e^{14} + \frac{1}{40}\sqrt{574}e^{25}$	$(\frac{1}{2}, -\frac{1}{80}, -\frac{21}{40}, -\frac{3}{16}, \frac{13}{40}, \frac{3}{20}, \frac{39}{80}, -\frac{1}{40}, \frac{5}{16})$ $+ \frac{1}{20}\sqrt{697}e^1 \otimes e_3$	{124, 1246, 12569, 1259, 14567, 1457, 1679, 179, 2345679, 234579, 2367, 237, 3469, 349, 35, 356}
93:9	$0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{38570}e^{12}, \frac{1}{1219}\sqrt{274398}e^{13},$ $\frac{4}{1219}\sqrt{3306}e^{14} + \frac{2}{1219}\sqrt{110751}e^{25}$	$(-\frac{127}{1219}, \frac{227}{1219}, \frac{511}{1219}, \frac{87}{1219}, -\frac{267}{1219}, -\frac{324}{1219}, \frac{100}{1219}, \frac{384}{1219}, -\frac{40}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^3 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^2 \otimes e_6$	{123457, 12789, 1346, 15689, 2358, 249, 3678, 45679}
93:9	$0, 0, 0, 0, 0, \frac{72}{523}\sqrt{2}e^{12}, \frac{12}{523}\sqrt{141}e^{13}, \frac{12}{523}\sqrt{357}e^{14} + \frac{12}{523}\sqrt{141}e^{25}$	$(-\frac{97}{523}, \frac{118}{523}, -\frac{2}{523}, \frac{117}{523}, -\frac{98}{523}, \frac{236}{523}, \frac{21}{523}, -\frac{99}{523}, \frac{20}{523})$ $+ \frac{12}{523}\sqrt{573}e^4 \otimes e_8 + \frac{12}{523}\sqrt{573}e^6 \otimes e_9 + \frac{144}{523}\sqrt{2}e^2 \otimes e_5$	{12789, 1589, 249, 4579}
93:9	$0, 0, 0, 0, 0, \frac{2}{3253}\sqrt{182357}e^{12}, \frac{4}{3253}\sqrt{37523}e^{13},$ $\frac{2}{3253}\sqrt{87235}e^{14} + \frac{2}{3253}\sqrt{167539}e^{25}$	$(-\frac{29}{3253}, \frac{66}{3253}, -\frac{383}{3253}, \frac{610}{3253}, \frac{515}{3253}, -\frac{507}{3253}, \frac{37}{3253}, -\frac{412}{3253}, \frac{581}{3253})$ $+ \frac{2}{3253}\sqrt{232069}e^5 \otimes e_7 + \frac{2}{3253}\sqrt{307115}e^2 \otimes e_8 + \frac{8}{3253}\sqrt{11233}e^1 \otimes e_6$	{1235, 178, 2679, 35689}
93:9	$0, 0, 0, 0, 0, \frac{1}{67}\sqrt{731}e^{12}, \frac{3}{67}\sqrt{129}e^{13}, \frac{1}{67}\sqrt{645}e^{14} + \frac{2}{67}\sqrt{258}e^{25}$	$(-\frac{5}{67}, \frac{4}{67}, -\frac{6}{67}, \frac{32}{67}, \frac{23}{67}, -\frac{20}{67}, -\frac{1}{67}, -\frac{11}{67}, \frac{27}{67})$ $+ \frac{1}{67}\sqrt{2365}e^5 \otimes e_6 + \frac{8}{67}\sqrt{43}e^4 \otimes e_8$	{123457, 126789, 1346, 1589, 2358, 2469, 3678, 4579}
93:9	$0, 0, 0, 0, 0, \frac{2}{2353}\sqrt{123518}e^{12}, \frac{4}{2353}\sqrt{77710}e^{13},$ $\frac{6}{2353}\sqrt{5317}e^{14} + \frac{2}{2353}\sqrt{203273}e^{25}$	$(-\frac{365}{2353}, \frac{21}{181}, \frac{42}{181}, \frac{93}{2353}, -\frac{545}{2353}, \frac{999}{2353}, -\frac{92}{2353}, \frac{1}{13}, -\frac{272}{2353})$ $+ \frac{2}{2353}\sqrt{105522}e^2 \otimes e_5 + \frac{2}{2353}\sqrt{322701}e^6 \otimes e_8 + \frac{4}{2353}\sqrt{112066}e^3 \otimes e_9$	{12789, 1589, 2469, 45679}
93:9	$0, 0, 0, 0, 0, \frac{2}{179}\sqrt{1245}e^{12}, \frac{1}{179}\sqrt{2730}e^{13}, \frac{6}{179}\sqrt{130}e^{14} + \frac{30}{179}e^{25}$	$(\frac{99}{716}, \frac{29}{179}, -\frac{141}{716}, -\frac{107}{716}, -\frac{31}{179}, \frac{58}{179}, \frac{215}{716}, -\frac{21}{358}, -\frac{2}{179})$ $+ \frac{1}{179}\sqrt{6090}e^2 \otimes e_5 + \frac{1}{179}\sqrt{8430}e^1 \otimes e_3 + \frac{358}{179}\sqrt{610}e^6 \otimes e_9$	{1246, 14567, 2367, 356}
93:9	$0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{142923}e^{12}, \frac{7}{1315}\sqrt{4026}e^{13},$ $\frac{1}{1315}\sqrt{189222}e^{14} + \frac{1}{1315}\sqrt{57706}e^{25}$	$(\frac{65}{263}, -\frac{343}{1315}, -\frac{1315}{263}, \frac{3}{1315}, \frac{653}{1315}, \frac{126}{1315}, \frac{18}{1315}, -\frac{21}{1315}, \frac{62}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_3 + \frac{2}{1315}\sqrt{191235}e^5 \otimes e_7$	{1245, 12456, 1467, 147, 234679, 23479, 34569, 3459}
93:9	$0, 0, 0, 0, 0, \frac{32}{373}\sqrt{30}e^{12}, \frac{24}{373}\sqrt{5}e^{13}, \frac{32}{373}\sqrt{10}e^{14} + \frac{24}{373}\sqrt{5}e^{25}$	$(\frac{55}{373}, -\frac{57}{373}, -\frac{105}{373}, -\frac{2}{373}, \frac{110}{373}, \frac{158}{373}, -\frac{2}{373}, -\frac{50}{373}, \frac{53}{373})$ $+ \frac{64}{373}\sqrt{10}e^6 \otimes e_7 + \frac{8}{373}\sqrt{355}e^5 \otimes e_8 + \frac{96}{373}\sqrt{5}e^1 \otimes e_3$	{12569, 1457, 234579, 356}
93:9	$0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{12}, \frac{2}{43}\sqrt{21}e^{13}, \frac{1}{43}\sqrt{119}e^{14} + \frac{1}{43}\sqrt{203}e^{25}$	$(\frac{3}{43}, \frac{6}{43}, -\frac{11}{43}, -\frac{1}{86}, -\frac{7}{86}, \frac{33}{86}, \frac{9}{43}, -\frac{8}{43}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{329}e^1 \otimes e_3 + \frac{1}{43}\sqrt{357}e^6 \otimes e_9 + \frac{1}{43}\sqrt{413}e^2 \otimes e_8$	{14678, 15789, 34589, 368}
93:9	$0, 0, 0, 0, 0, \frac{14}{311}\sqrt{95}e^{12}, \frac{4}{311}\sqrt{399}e^{13}, \frac{1}{311}\sqrt{665}e^{14} + \frac{19}{311}\sqrt{7}e^{25}$	$(-\frac{131}{622}, \frac{48}{311}, \frac{231}{622}, \frac{57}{622}, -\frac{85}{311}, \frac{96}{311}, -\frac{35}{622}, \frac{50}{311}, -\frac{37}{311})$ $+ \frac{14}{311}\sqrt{95}e^6 \otimes e_9 + \frac{1}{311}\sqrt{30191}e^3 \otimes e_7 + \frac{7}{311}\sqrt{551}e^2 \otimes e_5$	{12349, 145789, 279, 3589}
93:9	$0, 0, 0, 0, 0, \frac{16}{41}\sqrt{2}e^{12}, \frac{8}{41}\sqrt{19}e^{13}, \frac{16}{41}\sqrt{2}e^{14} + \frac{8}{41}\sqrt{19}e^{25}$	$(\frac{3}{41}, -\frac{5}{41}, -\frac{13}{41}, \frac{14}{41}, \frac{22}{41}, \frac{6}{41}, -\frac{2}{41}, -\frac{10}{41}, \frac{17}{41})$ $+ \frac{8}{41}\sqrt{35}e^5 \otimes e_8$	{123567, 12357, 1246789, 124789, 134569, 13459, 168, 18, 23689, 2389, 245, 2456, 34678, 3478, 5679, 579}
93:9	$0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{38570}e^{12}, \frac{1}{1219}\sqrt{274398}e^{13},$ $\frac{4}{1219}\sqrt{3306}e^{14} + \frac{2}{1219}\sqrt{110751}e^{25}$	$(-\frac{127}{1219}, -\frac{232}{1219}, \frac{511}{1219}, \frac{87}{1219}, \frac{192}{1219}, \frac{135}{1219}, -\frac{359}{1219}, \frac{384}{1219}, -\frac{40}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^3 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^5 \otimes e_7$	{126789, 12789, 15689, 1589, 23568, 2358, 3678, 378}
93:9	$0, 0, 0, 0, 0, \frac{2}{341}\sqrt{335}e^{12}, \frac{4}{341}\sqrt{335}e^{13}, \frac{2}{341}\sqrt{515}e^{14} + \frac{2}{341}\sqrt{1765}e^{25}$	$(-\frac{157}{1023}, \frac{4}{93}, \frac{37}{341}, \frac{178}{1023}, -\frac{23}{1023}, \frac{25}{341}, -\frac{113}{1023}, -\frac{46}{1023}, \frac{7}{341})$ $+ \frac{10}{341}\sqrt{51}e^5 \otimes e_7 + \frac{2}{341}\sqrt{1945}e^2 \otimes e_8 + \frac{8}{341}\sqrt{95}e^3 \otimes e_9$	{1235, 12356, 2679, 279}
93:9	$0, 0, 0, 0, 0, \frac{2}{1031}\sqrt{26970}e^{12}, \frac{4}{1031}\sqrt{1479}e^{13},$ $\frac{2}{1031}\sqrt{15051}e^{14} + \frac{2}{1031}\sqrt{17922}e^{25}$	$(\frac{136}{1031}, -\frac{106}{1031}, -\frac{3}{1031}, -\frac{38}{1031}, \frac{204}{1031}, -\frac{280}{1031}, \frac{30}{1031}, \frac{133}{1031}, \frac{98}{1031})$ $+ \frac{12}{1031}\sqrt{667}e^1 \otimes e_4 + \frac{6}{1031}\sqrt{3335}e^2 \otimes e_6 + \frac{30}{1031}\sqrt{3335}e^5 \otimes e_7$	{1235, 1258, 1367, 1678}
93:9	$0, 0, 0, 0, 0, \frac{20}{1477}\sqrt{93}e^{12}, \frac{60}{1477}\sqrt{22}e^{13},$ $\frac{60}{1477}\sqrt{3}e^{14} + \frac{5}{1477}\sqrt{3594}e^{25}$	$(-\frac{110}{1477}, -\frac{40}{1477}, \frac{135}{1477}, \frac{170}{1477}, \frac{100}{1477}, -\frac{115}{1477}, -\frac{150}{1477}, \frac{25}{1477}, \frac{60}{1477})$ $+ \frac{15}{1477}\sqrt{142}e^2 \otimes e_6 + \frac{5}{1477}\sqrt{3390}e^3 \otimes e_9 + \frac{5}{1477}\sqrt{3606}e^5 \otimes e_8$	{12357, 124789, 34678, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{2729}\sqrt{2765}e^{12}, \frac{56}{2729}\sqrt{474}e^{13},$ $\frac{2}{2729}\sqrt{45346}e^{14} + \frac{2}{2729}\sqrt{160923}e^{25}$	$(-\frac{475}{2729}, -\frac{12}{2729}, \frac{451}{2729}, \frac{1082}{2729}, \frac{619}{2729}, -\frac{655}{2729}, -\frac{487}{2729}, -\frac{24}{2729}, \frac{607}{2729})$ $+ \frac{14}{2729}\sqrt{10033}e^3 \otimes e_6 + \frac{2}{2729}\sqrt{514290}e^4 \otimes e_8 + \frac{52}{2729}\sqrt{553}e^5 \otimes e_7$	{126789, 15689, 2358, 378}
93:9	$0, 0, 0, 0, 0, 0, \frac{22}{815}\sqrt{94}e^{12}, \frac{44}{815}\sqrt{57}e^{13}, \frac{22}{815}\sqrt{131}e^{14} + \frac{22}{815}\sqrt{134}e^{25}$	$(\frac{154}{815}, -\frac{33}{163}, -\frac{33}{163}, -\frac{88}{815}, \frac{231}{815}, \frac{231}{815}, -\frac{11}{815}, -\frac{11}{815}, \frac{66}{815})$ $+ \frac{22}{815}\sqrt{282}e^1 \otimes e_4 + \frac{22}{815}\sqrt{302}e^5 \otimes e_8 + \frac{44}{815}\sqrt{42}e^6 \otimes e_7$	{12356, 178, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{3281}\sqrt{8446}e^{12}, \frac{24}{3281}\sqrt{2993}e^{13},$ $\frac{6}{3281}\sqrt{697}e^{14} + \frac{54}{3281}\sqrt{287}e^{25}$	$(\frac{155}{3281}, -\frac{111}{3281}, \frac{310}{3281}, -\frac{583}{3281}, \frac{317}{3281}, \frac{1203}{3281}, \frac{44}{3281}, \frac{465}{3281}, -\frac{428}{3281})$ $+ \frac{12}{3281}\sqrt{12587}e^3 \otimes e_9 + \frac{30}{3281}\sqrt{1394}e^1 \otimes e_4 + \frac{6}{3281}\sqrt{39073}e^6 \otimes e_8$	{123567, 136, 23458, 3478}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{328}\sqrt{13029}e^{12}, \frac{1}{164}\sqrt{1414}e^{13},$ $\frac{1}{328}\sqrt{13029}e^{14} + \frac{1}{328}\sqrt{3030}e^{25}$	$(-\frac{1}{328}, -\frac{45}{656}, -\frac{1}{328}, \frac{155}{656}, \frac{99}{328}, -\frac{51}{164}, -\frac{47}{656}, -\frac{1}{164}, \frac{153}{656})$ $+ \frac{1}{328}\sqrt{11514}e^5 \otimes e_8 + \frac{1}{328}\sqrt{23230}e^4 \otimes e_7 + \frac{1}{328}\sqrt{26058}e^1 \otimes e_6$	{1248, 1789, 23678, 34689}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{178}\sqrt{1639}e^{12}, \frac{1}{712}\sqrt{20562}e^{13},$ $\frac{1}{356}\sqrt{3129}e^{14} + \frac{1}{356}\sqrt{16539}e^{25}$	$(-\frac{61}{712}, -\frac{53}{1424}, \frac{23}{89}, \frac{12}{89}, \frac{123}{1424}, -\frac{351}{1424}, -\frac{175}{1424}, \frac{123}{712}, \frac{35}{712})$ $+ \frac{1}{712}\sqrt{59302}e^3 \otimes e_9 + \frac{3}{712}\sqrt{7599}e^2 \otimes e_6 + \frac{3}{712}\sqrt{7599}e^5 \otimes e_7$	{1235, 1367, 279, 569}
93:9	$0, 0, 0, 0, 0, 0, \frac{46}{349}\sqrt{2}e^{12}, \frac{2}{349}\sqrt{4738}e^{13}, \frac{46}{349}\sqrt{2}e^{14} + \frac{2}{349}\sqrt{4738}e^{25}$	$(-\frac{29}{349}, -\frac{52}{349}, \frac{11}{349}, \frac{51}{349}, \frac{74}{349}, \frac{114}{349}, \frac{81}{349}, -\frac{18}{349}, \frac{22}{349})$ $+ \frac{2}{349}\sqrt{6854}e^5 \otimes e_8 + \frac{4}{349}\sqrt{989}e^3 \otimes e_7 + \frac{4}{349}\sqrt{989}e^6 \otimes e_9$	{124789, 13459, 2389, 579}
93:9	$0, 0, 0, 0, 0, 0, \frac{5}{404}\sqrt{695}e^{12}, \frac{5}{404}\sqrt{1810}e^{13}, \frac{5}{404}\sqrt{695}e^{14} + \frac{25}{202}\sqrt{13}e^{25}$	$(-\frac{9}{404}, -\frac{55}{808}, \frac{5}{404}, \frac{205}{808}, \frac{121}{404}, -\frac{30}{101}, -\frac{73}{808}, -\frac{1}{101}, \frac{187}{808})$ $+ \frac{15}{404}\sqrt{170}e^3 \otimes e_6 + \frac{1}{202}\sqrt{545}e^5 \otimes e_8$	{12357, 1246789, 13459, 168, 2389, 2456, 3478, 5679}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{421}\sqrt{58}e^{12}, \frac{10}{421}\sqrt{174}e^{13}, \frac{2}{421}\sqrt{2291}e^{14} + \frac{16}{421}\sqrt{29}e^{25}$	$(\frac{35}{421}, -\frac{87}{421}, \frac{6}{421}, -\frac{23}{421}, \frac{99}{421}, \frac{27}{421}, -\frac{52}{421}, \frac{41}{421}, \frac{12}{421})$ $+ \frac{2}{421}\sqrt{3741}e^1 \otimes e_4 + \frac{2}{421}\sqrt{3741}e^3 \otimes e_7 - \frac{4}{421}\sqrt{986}e^5 \otimes e_8$	{1235, 12356, 1678, 178, 24567, 2457, 3468, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{421}\sqrt{58}e^{12}, \frac{10}{421}\sqrt{174}e^{13}, \frac{2}{421}\sqrt{2291}e^{14} + \frac{16}{421}\sqrt{29}e^{25}$	$(\frac{35}{421}, \frac{87}{421}, \frac{6}{421}, -\frac{23}{421}, \frac{99}{421}, \frac{27}{421}, -\frac{52}{421}, \frac{41}{421}, \frac{12}{421})$ $+ \frac{2}{421}\sqrt{3741}e^1 \otimes e_4 + \frac{2}{421}\sqrt{3741}e^3 \otimes e_7 + \frac{4}{421}\sqrt{986}e^5 \otimes e_8$	{1235, 12356, 1678, 178, 24567, 2457, 3468, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{6386}e^{12}, \frac{2}{161}\sqrt{1030}e^{13},$ $\frac{2}{161}\sqrt{515}e^{14} + \frac{2}{161}\sqrt{1030}e^{25}$	$(-\frac{20}{161}, \frac{109}{161}, \frac{37}{161}, \frac{32}{161}, -\frac{97}{161}, \frac{27}{161}, \frac{89}{161}, \frac{17}{161}, \frac{12}{161})$ $+ \frac{2}{161}\sqrt{13802}e^2 \otimes e_5$	{12, 12368, 1238, 126, 135678, 13578, 1567, 157, 23467, 2347, 24678, 2478, 345, 3456, 4568, 458}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{179}\sqrt{130}e^{12}, \frac{1}{179}\sqrt{2730}e^{13}, \frac{2}{179}\sqrt{1245}e^{14} + \frac{30}{179}e^{25}$	$(\frac{99}{716}, -\frac{77}{716}, -\frac{141}{716}, \frac{43}{358}, \frac{131}{358}, -\frac{77}{358}, \frac{11}{358}, -\frac{21}{358}, \frac{185}{716})$ $+ \frac{1}{179}\sqrt{6090}e^4 \otimes e_6 + \frac{1}{179}\sqrt{8430}e^1 \otimes e_3 + \frac{3}{179}\sqrt{610}e^5 \otimes e_7$	{12569, 1679, 2367, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{328}\sqrt{13029}e^{12}, \frac{1}{328}\sqrt{31714}e^{13},$ $\frac{1}{328}\sqrt{13029}e^{14} + \frac{1}{164}\sqrt{5757}e^{25}$	$(-\frac{1}{328}, -\frac{45}{656}, -\frac{1}{328}, \frac{155}{656}, \frac{99}{328}, \frac{51}{164}, -\frac{47}{656}, -\frac{1}{164}, \frac{153}{656})$ $+ \frac{1}{164}\sqrt{707}e^4 \otimes e_7 + \frac{1}{164}\sqrt{9393}e^5 \otimes e_8 + \frac{1}{328}\sqrt{26058}e^3 \otimes e_6$	{1246789, 168, 2389, 3478}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{22451}e^{12}, \frac{1}{391}\sqrt{28457}e^{13},$ $\frac{1}{391}\sqrt{7293}e^{14} + \frac{2}{391}\sqrt{10582}e^{25}$	$(-\frac{9}{391}, -\frac{32}{391}, \frac{146}{391}, \frac{12}{391}, \frac{35}{391}, -\frac{108}{391}, -\frac{41}{391}, \frac{137}{391}, \frac{3}{391})$ $+ \frac{1}{391}\sqrt{41613}e^5 \otimes e_6 + \frac{52}{391}\sqrt{22}e^3 \otimes e_9$	{123457, 126789, 1346, 1589, 2358, 2469, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{521}\sqrt{94326}e^{12}, \frac{1}{521}\sqrt{39342}e^{13},$ $\frac{6}{521}\sqrt{1185}e^{14} + \frac{1}{521}\sqrt{39342}e^{25}$	$(\frac{97}{521}, \frac{142}{521}, -\frac{140}{521}, -\frac{50}{521}, -\frac{95}{521}, \frac{40}{521}, \frac{239}{521}, -\frac{43}{521}, \frac{47}{521})$ $+ \frac{1}{521}\sqrt{124662}e^1 \otimes e_3 + \frac{2}{521}\sqrt{25833}e^2 \otimes e_5$	{124, 1246, 14567, 1457, 2367, 237, 35, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{7}{379}\sqrt{22}e^{12}, \frac{3}{379}\sqrt{2002}e^{13}, \frac{7}{379}\sqrt{66}e^{14} + \frac{3}{379}\sqrt{2002}e^{25}$	$(-\frac{70}{379}, \frac{68}{379}, \frac{61}{379}, \frac{54}{379}, -\frac{84}{379}, \frac{75}{379}, -\frac{2}{379}, -\frac{9}{379}, -\frac{16}{379})$ $+ \frac{14}{379}\sqrt{33}e^6 \otimes e_7 + \frac{1}{379}\sqrt{22330}e^3 \otimes e_9 + \frac{1}{379}\sqrt{24486}e^2 \otimes e_8$	{12356, 145789, 279, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{1459}\sqrt{1290}e^{12}, \frac{10}{1459}\sqrt{2310}e^{13},$ $\frac{10}{1459}\sqrt{1290}e^{14} + \frac{10}{1459}\sqrt{4030}e^{25}$	$(\frac{145}{1459}, -\frac{148}{1459}, -\frac{355}{1459}, -\frac{3}{1459}, \frac{290}{1459}, \frac{642}{1459}, -\frac{3}{1459}, -\frac{210}{1459}, \frac{142}{1459})$ $+ \frac{20}{1459}\sqrt{1290}e^6 \otimes e_9 + \frac{500}{1459}e^1 \otimes e_3 + \frac{90}{1459}\sqrt{70}e^5 \otimes e_8$	{12789, 1468, 23489, 3678}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{3}{67}\sqrt{47}e^{13}, \frac{1}{67}\sqrt{987}e^{14} + \frac{2}{67}\sqrt{94}e^{25}$	$(-\frac{9}{67}, -\frac{7}{67}, \frac{12}{67}, \frac{31}{67}, \frac{29}{67}, -\frac{18}{67}, -\frac{16}{67}, \frac{3}{67}, \frac{22}{67})$ $+ \frac{1}{67}\sqrt{2397}e^5 \otimes e_6 + \frac{2}{67}\sqrt{799}e^4 \otimes e_7$	{123458, 1245, 135789, 1579, 2357, 2578, 3459, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, 0, \frac{11}{343}\sqrt{2}e^{12}, \frac{22}{343}\sqrt{57}e^{13}, \frac{11}{343}\sqrt{78}e^{14} + \frac{55}{343}\sqrt{6}e^{25}$	$(-\frac{44}{343}, -\frac{44}{343}, \frac{33}{343}, \frac{110}{343}, \frac{110}{343}, -\frac{11}{343}, -\frac{88}{343}, -\frac{11}{343}, \frac{66}{343})$ $+\frac{11}{343}\sqrt{310}e^5 \otimes e_8 + \frac{11}{343}\sqrt{82}e^4 \otimes e_6 + \frac{33}{343}\sqrt{26}e^3 \otimes e_7$	{124789, 13459, 23689, 5679}
93:9	$0, 0, 0, 0, 0, 0, \frac{6}{521}\sqrt{1185}e^{12}, \frac{1}{521}\sqrt{39342}e^{13},$ $\frac{1}{521}\sqrt{94326}e^{14} + \frac{1}{521}\sqrt{39342}e^{25}$	$(\frac{97}{521}, \frac{33}{521}, -\frac{140}{521}, \frac{59}{521}, \frac{123}{521}, -\frac{178}{521}, \frac{130}{521}, -\frac{43}{521}, \frac{156}{521})$ $+\frac{1}{521}\sqrt{124662}e^1 \otimes e_3 + \frac{2}{521}\sqrt{25833}e^4 \otimes e_6$	{124, 12569, 1457, 1679, 234579, 2367, 349, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{105}e^{12}, \frac{1}{59}\sqrt{210}e^{13}, \frac{2}{59}\sqrt{21}e^{14} + \frac{1}{59}\sqrt{462}e^{25}$	$(\frac{10}{59}, -\frac{16}{59}, 0, -\frac{11}{59}, \frac{15}{59}, \frac{20}{59}, -\frac{6}{59}, \frac{10}{59}, -\frac{1}{59})$ $+\frac{21}{59}\sqrt{2}e^5 \otimes e_7 + \frac{3}{59}\sqrt{70}e^6 \otimes e_9 + \frac{6}{59}\sqrt{21}e^1 \otimes e_4$	{12356, 12568, 1367, 1678}
93:9	$0, 0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{12}, \frac{2}{499}\sqrt{38766}e^{13},$ $\frac{2}{499}\sqrt{18291}e^{14} + \frac{4}{499}\sqrt{273}e^{25}$	$(-\frac{130}{499}, -\frac{59}{499}, \frac{357}{499}, \frac{152}{499}, \frac{81}{499}, \frac{85}{499}, -\frac{189}{499}, \frac{227}{499}, \frac{22}{499})$ $+\frac{6}{499}\sqrt{12558}e^3 \otimes e_7$	{123469, 12349, 1235, 12356, 1456789, 145789, 1678, 178, 24567, 2457, 2679, 279, 3468, 348, 35689, 3589}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{151}\sqrt{58}e^{12}, \frac{4}{151}\sqrt{66}e^{13}, \frac{12}{151}\sqrt{30}e^{14} + \frac{8}{151}\sqrt{3}e^{25}$	$(\frac{16}{151}, \frac{4}{151}, -\frac{48}{151}, \frac{32}{151}, \frac{44}{151}, -\frac{20}{151}, \frac{20}{151}, -\frac{32}{151}, \frac{48}{151})$ $+\frac{4}{151}\sqrt{262}e^5 \otimes e_6 + \frac{8}{151}\sqrt{105}e^1 \otimes e_3 + \frac{8}{151}\sqrt{106}e^4 \otimes e_8$	{12689, 15789, 23578, 368}
93:9	$0, 0, 0, 0, 0, 0, \frac{32}{373}\sqrt{10}e^{12}, \frac{24}{373}\sqrt{5}e^{13}, \frac{32}{373}\sqrt{30}e^{14} + \frac{24}{373}\sqrt{5}e^{25}$	$(\frac{55}{373}, \frac{7}{373}, -\frac{105}{373}, \frac{62}{373}, \frac{110}{373}, -\frac{98}{373}, \frac{62}{373}, -\frac{50}{373}, \frac{117}{373})$ $+\frac{64}{373}\sqrt{10}e^4 \otimes e_6 + \frac{8}{373}\sqrt{355}e^5 \otimes e_8 + \frac{96}{373}\sqrt{5}e^1 \otimes e_3$	{12569, 1457, 234579, 356}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{70}e^{12}, \frac{9}{112}\sqrt{14}e^{13}, \frac{3}{56}\sqrt{23}e^{14} + \frac{3}{28}\sqrt{7}e^{25}$	$(\frac{31}{224}, \frac{5}{56}, -\frac{47}{224}, -\frac{5}{224}, \frac{3}{112}, -\frac{15}{112}, \frac{51}{224}, -\frac{1}{14}, \frac{13}{112})$ $+\frac{3}{112}\sqrt{134}e^1 \otimes e_4 + \frac{3}{112}\sqrt{190}e^2 \otimes e_8 + \frac{3}{56}\sqrt{23}e^5 \otimes e_6$	{1235, 1678, 2457, 3468}
93:9	$0, 0, 0, 0, 0, 0, \frac{8}{51}\sqrt{6}e^{12}, \frac{4}{51}\sqrt{21}e^{13}, \frac{4}{17}\sqrt{5}e^{14} + \frac{4}{51}\sqrt{21}e^{25}$	$(-\frac{3}{17}, \frac{2}{17}, -\frac{2}{51}, \frac{13}{51}, -\frac{2}{51}, \frac{28}{51}, -\frac{1}{17}, -\frac{11}{51}, \frac{4}{51})$ $+\frac{4}{51}\sqrt{69}e^4 \otimes e_8 + \frac{4}{51}\sqrt{69}e^6 \otimes e_9$	{1234567, 12789, 1346, 1589, 23568, 249, 3678, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{645}e^{12}, \frac{3}{67}\sqrt{129}e^{13}, \frac{1}{67}\sqrt{731}e^{14} + \frac{2}{67}\sqrt{258}e^{25}$	$(\frac{27}{67}, -\frac{12}{67}, -\frac{6}{67}, -\frac{16}{67}, \frac{23}{67}, -\frac{20}{67}, \frac{15}{67}, \frac{21}{67}, \frac{11}{67})$ $+\frac{1}{67}\sqrt{2365}e^5 \otimes e_6 + \frac{8}{67}\sqrt{43}e^1 \otimes e_4$	{1235, 1258, 1367, 1678, 234578, 2457, 3468, 46}
93:9	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{12}, \frac{2}{67}\sqrt{94}e^{13}, \frac{1}{67}\sqrt{987}e^{14} + \frac{3}{67}\sqrt{47}e^{25}$	$(-\frac{35}{134}, \frac{3}{134}, \frac{7}{134}, \frac{31}{67}, \frac{12}{67}, \frac{33}{67}, -\frac{16}{67}, -\frac{14}{67}, \frac{27}{134})$ $+\frac{1}{67}\sqrt{2397}e^6 \otimes e_8 + \frac{2}{67}\sqrt{799}e^4 \otimes e_7$	{12346, 1248, 13679, 1789, 2378, 267, 3489, 469}
93:9	$0, 0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{12}, \frac{1}{40}\sqrt{574}e^{13}, \frac{3}{40}\sqrt{123}e^{14} + \frac{1}{40}\sqrt{574}e^{25}$	$(-\frac{7}{20}, -\frac{1}{80}, \frac{13}{40}, \frac{53}{80}, \frac{13}{40}, \frac{3}{20}, -\frac{29}{80}, -\frac{1}{40}, \frac{5}{16})$ $+\frac{1}{20}\sqrt{697}e^4 \otimes e_7$	{123468, 12348, 124, 1246, 136789, 13789, 1679, 179, 2367, 237, 2678, 278, 3469, 349, 4689, 489}
93:9	$0, 0, 0, 0, 0, 0, \frac{10}{667}\sqrt{10}e^{12}, \frac{20}{667}\sqrt{330}e^{13},$ $\frac{10}{667}\sqrt{635}e^{14} + \frac{10}{667}\sqrt{890}e^{25}$	$(-\frac{76}{667}, -\frac{117}{667}, \frac{57}{667}, \frac{190}{667}, \frac{231}{667}, \frac{63}{667}, -\frac{193}{667}, -\frac{19}{667}, \frac{114}{667})$ $+\frac{10}{667}\sqrt{1290}e^3 \otimes e_7 + \frac{10}{667}\sqrt{1730}e^5 \otimes e_8$	{1235, 12356, 1678, 178, 24567, 2457, 3468, 348}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{299}e^{12}, \frac{2}{103}\sqrt{442}e^{13}, \frac{4}{103}\sqrt{78}e^{14} + \frac{4}{103}\sqrt{65}e^{25}$	$(-\frac{26}{103}, \frac{12}{103}, \frac{27}{103}, \frac{27}{103}, -\frac{11}{103}, \frac{9}{103}, -\frac{14}{103}, \frac{1}{103}, \frac{1}{103})$ $-\frac{2}{103}\sqrt{546}e^4 \otimes e_8 + \frac{52}{103}e^3 \otimes e_9$	{1234567, 123457, 126789, 12789, 134, 1346, 15689, 1589, 23568, 2358, 2469, 249, 3678, 378, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{299}e^{12}, \frac{2}{103}\sqrt{442}e^{13}, \frac{4}{103}\sqrt{78}e^{14} + \frac{4}{103}\sqrt{65}e^{25}$	$(-\frac{26}{103}, \frac{12}{103}, \frac{27}{103}, \frac{27}{103}, -\frac{11}{103}, \frac{9}{103}, -\frac{14}{103}, \frac{1}{103}, \frac{1}{103})$ $+\frac{2}{103}\sqrt{546}e^4 \otimes e_8 + \frac{52}{103}e^3 \otimes e_9$	{1234567, 123457, 126789, 12789, 134, 1346, 15689, 1589, 23568, 2358, 2469, 249, 3678, 378, 45679, 4579}
93:9	$0, 0, 0, 0, 0, 0, \frac{8}{463}\sqrt{249}e^{12}, \frac{1}{463}\sqrt{66234}e^{13},$ $\frac{8}{463}\sqrt{249}e^{14} + \frac{1}{463}\sqrt{2490}e^{25}$	$(-\frac{148}{463}, \frac{22}{463}, \frac{123}{463}, \frac{224}{463}, \frac{54}{463}, \frac{49}{463}, -\frac{126}{463}, -\frac{25}{463}, \frac{76}{463})$ $+\frac{3}{463}\sqrt{11454}e^3 \otimes e_7 + \frac{3}{463}\sqrt{11454}e^4 \otimes e_8$	{1234, 12346, 16789, 1789, 245679, 24579, 3568, 358}
93:9	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{4}{51}\sqrt{21}e^{13}, \frac{8}{51}\sqrt{6}e^{14} + \frac{4}{51}\sqrt{21}e^{25}$	$(\frac{14}{51}, \frac{2}{17}, -\frac{2}{51}, -\frac{10}{51}, -\frac{2}{51}, -\frac{6}{17}, \frac{20}{51}, \frac{4}{17}, \frac{4}{51})$ $+\frac{4}{51}\sqrt{69}e^1 \otimes e_4 + \frac{4}{51}\sqrt{69}e^2 \otimes e_6$	{1235, 1258, 1367, 1678, 234578, 2457, 3468, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:9	$0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{142923}e^{12}, \frac{7}{1315}\sqrt{4026}e^{13},$ $\frac{1}{1315}\sqrt{189222}e^{14} + \frac{1}{1315}\sqrt{57706}e^{25}$	$(\frac{65}{263}, \frac{227}{1315}, -\frac{346}{1315}, -\frac{3}{263}, \frac{83}{1315}, -\frac{444}{1315}, \frac{552}{1315}, -\frac{21}{1315}, \frac{62}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_3 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_6$	{1245, 129, 1467, 15679, 23479, 2357, 34569, 36}
93:9	$0, 0, 0, 0, 0, \frac{72}{389}e^{12}, \frac{4}{389}\sqrt{470}e^{13}, \frac{24}{389}\sqrt{3}e^{14} + \frac{4}{389}\sqrt{470}e^{25}$	$(\frac{11}{389}, -\frac{43}{389}, \frac{11}{389}, -\frac{16}{389}, \frac{38}{389}, \frac{30}{389}, -\frac{32}{389}, \frac{22}{389}, -\frac{5}{389})$ $+ \frac{36}{389}\sqrt{6}e^5 \otimes e_8 + \frac{40}{389}\sqrt{2}e^4 \otimes e_7 + \frac{48}{389}\sqrt{3}e^3 \otimes e_9$	{1246789, 124789, 34678, 3478}
93:9	$0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{4}{51}\sqrt{21}e^{13}, \frac{8}{51}\sqrt{6}e^{14} + \frac{4}{51}\sqrt{21}e^{25}$	$(\frac{14}{51}, -\frac{1}{3}, -\frac{2}{51}, -\frac{10}{51}, \frac{7}{17}, \frac{5}{51}, -\frac{1}{17}, \frac{4}{17}, \frac{4}{51})$ $+ \frac{4}{51}\sqrt{69}e^1 \otimes e_4 + \frac{4}{51}\sqrt{69}e^5 \otimes e_7$	{1235, 12356, 12568, 1258, 1367, 137, 1678, 178}
93:9	$0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{142923}e^{12}, \frac{7}{1315}\sqrt{4026}e^{13},$ $\frac{1}{1315}\sqrt{189222}e^{14} + \frac{1}{1315}\sqrt{57706}e^{25}$	$(-\frac{294}{1315}, \frac{227}{1315}, \frac{273}{1315}, \frac{604}{1315}, \frac{83}{1315}, -\frac{444}{1315}, -\frac{67}{1315}, -\frac{21}{1315}, \frac{62}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^4 \otimes e_7 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_6$	{123458, 1245, 1356789, 15679, 2357, 2578, 34569, 45689}
93:10	$0, 0, 0, 0, 0, \frac{8}{957}\sqrt{527}e^{12}, \frac{1}{957}\sqrt{16058}e^{13},$ $\frac{1}{957}\sqrt{1426}e^{23} + \frac{4}{957}\sqrt{1829}e^{45}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{62}{957}, -\frac{157}{957}, \frac{128}{957}, \frac{79}{957}, \frac{2}{957}, -\frac{1}{33}, -\frac{1}{33})$ $+ \frac{1}{319}\sqrt{4898}e^1 \otimes e_9 + \frac{2}{957}\sqrt{8835}e^5 \otimes e_7 + \frac{5}{957}\sqrt{1178}e^2 \otimes e_8$	{12345, 123456, 1678, 178, 24679, 2479, 35689, 3589}
93:10	$0, 0, 0, 0, 0, \frac{8}{957}\sqrt{527}e^{12}, \frac{1}{957}\sqrt{16058}e^{13},$ $\frac{1}{957}\sqrt{1426}e^{23} + \frac{4}{957}\sqrt{1829}e^{45}$	$(\frac{1}{29}, \frac{1}{29}, -\frac{62}{957}, -\frac{157}{957}, \frac{128}{957}, \frac{79}{957}, \frac{2}{957}, -\frac{1}{33}, -\frac{1}{33})$ $+ \frac{1}{319}\sqrt{4898}e^1 \otimes e_9 + \frac{2}{957}\sqrt{8835}e^5 \otimes e_7 - \frac{5}{957}\sqrt{1178}e^2 \otimes e_8$	{12345, 123456, 1678, 178, 24679, 2479, 35689, 3589}
93:10	$0, 0, 0, 0, 0, \frac{2}{141}\sqrt{102}e^{12}, \frac{2}{141}\sqrt{102}e^{13}, \frac{4}{47}\sqrt{34}e^{23} + \frac{2}{141}\sqrt{1122}e^{45}$	$(\frac{20}{141}, -\frac{2}{47}, -\frac{2}{47}, \frac{15}{47}, -\frac{19}{47}, \frac{30}{47}, \frac{14}{141}, \frac{14}{141}, -\frac{4}{47})$ $+ \frac{2}{141}\sqrt{3774}e^6 \otimes e_9 + \frac{34}{47}e^4 \otimes e_5$	{12479, 12579, 2489, 2589}
93:10	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12}, \frac{6}{131}\sqrt{74}e^{13}, \frac{2}{131}\sqrt{851}e^{23} + \frac{12}{131}\sqrt{37}e^{45}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{20}{131}, \frac{49}{131}, -\frac{21}{131}, \frac{61}{131}, -\frac{25}{131}, -\frac{13}{131}, \frac{28}{131})$ $+ \frac{2}{131}\sqrt{1702}e^6 \otimes e_8 + \frac{2}{131}\sqrt{2590}e^4 \otimes e_7$	{123469, 12458, 1367, 15789, 235789, 267, 3458, 469}
93:10	$0, 0, 0, 0, 0, \frac{4}{183}\sqrt{230}e^{12}, \frac{4}{183}\sqrt{110}e^{13}, \frac{8}{183}\sqrt{17}e^{23} + \frac{4}{183}\sqrt{122}e^{45}$	$(-\frac{4}{61}, \frac{8}{61}, \frac{4}{183}, -\frac{16}{183}, \frac{44}{183}, -\frac{44}{183}, \frac{4}{61}, -\frac{8}{183}, \frac{28}{183})$ $+ \frac{16}{183}\sqrt{15}e^5 \otimes e_7 + \frac{40}{183}\sqrt{2}e^2 \otimes e_8 + \frac{4}{61}\sqrt{26}e^1 \otimes e_6$	{12359, 14789, 267, 34568}
93:10	$0, 0, 0, 0, 0, \frac{22}{419}\sqrt{65}e^{12}, \frac{22}{419}\sqrt{65}e^{13}, \frac{4}{419}\sqrt{2002}e^{23} + \frac{2}{419}\sqrt{286}e^{45}$	$(-\frac{60}{419}, \frac{165}{419}, -\frac{61}{419}, \frac{195}{419}, -\frac{91}{419}, \frac{50}{419}, \frac{105}{419}, -\frac{121}{419}, \frac{104}{419})$ $+ \frac{286}{419}e^4 \otimes e_5 + \frac{2}{419}\sqrt{32318}e^2 \otimes e_8$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578}
93:10	$0, 0, 0, 0, 0, \frac{7}{407}\sqrt{861}e^{12}, \frac{1}{407}\sqrt{20951}e^{13},$ $\frac{1}{407}\sqrt{45633}e^{23} + \frac{2}{407}\sqrt{1722}e^{45}$	$(\frac{13}{814}, \frac{221}{814}, \frac{1}{814}, \frac{199}{407}, -\frac{8}{37}, \frac{353}{814}, \frac{117}{407}, \frac{7}{407}, \frac{3}{11})$ $+ \frac{287}{407}e^4 \otimes e_5 + \frac{2}{407}\sqrt{31570}e^2 \otimes e_6$	{12348, 12358, 1467, 1567, 2347, 2357, 468, 568}
93:10	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{2}{41}\sqrt{35}e^{13}, \frac{6}{41}\sqrt{7}e^{23} + \frac{2}{41}\sqrt{77}e^{45}$	$(\frac{1}{41}, -\frac{2}{41}, \frac{8}{41}, \frac{13}{41}, -\frac{7}{41}, -\frac{13}{41}, -\frac{1}{41}, \frac{9}{41}, \frac{6}{41})$ $+ \frac{2}{41}\sqrt{119}e^1 \otimes e_6 + \frac{4}{41}\sqrt{35}e^4 \otimes e_7$	{12349, 12458, 137, 15789, 2356789, 267, 34568, 469}
93:10	$0, 0, 0, 0, 0, \frac{1}{143}\sqrt{7458}e^{12}, \frac{1}{143}\sqrt{7458}e^{13},$ $\frac{1}{143}\sqrt{2486}e^{23} + \frac{2}{143}\sqrt{2486}e^{45}$	$(\frac{7}{13}, -\frac{18}{143}, -\frac{18}{143}, -\frac{18}{143}, -\frac{18}{143}, \frac{2}{11}, \frac{59}{143}, \frac{59}{143}, -\frac{36}{143})$ $+ \frac{3}{143}\sqrt{2938}e^1 \otimes e_9$	{123, 12345, 123456, 1236, 145678, 14578, 1678, 178, 24679, 2479}
93:10	$0, 0, 0, 0, 0, \frac{10}{473}\sqrt{213}e^{12}, \frac{4}{473}\sqrt{1207}e^{13},$ $\frac{2}{473}\sqrt{4047}e^{23} + \frac{12}{473}\sqrt{71}e^{45}$	$(-\frac{101}{473}, \frac{47}{473}, \frac{8}{43}, \frac{6}{473}, \frac{3}{11}, -\frac{95}{473}, -\frac{54}{473}, -\frac{13}{473}, \frac{135}{473})$ $+ \frac{2}{473}\sqrt{8733}e^5 \otimes e_8 + \frac{2}{473}\sqrt{9727}e^2 \otimes e_6 + \frac{6}{473}\sqrt{1349}e^3 \otimes e_7$	{12345, 1678, 2579, 34689}
93:10	$0, 0, 0, 0, 0, \frac{1}{227}\sqrt{4661}e^{12}, \frac{1}{227}\sqrt{4661}e^{13},$ $\frac{1}{227}\sqrt{4366}e^{23} + \frac{1}{227}\sqrt{590}e^{45}$	$(-\frac{59}{227}, \frac{31}{227}, \frac{31}{227}, \frac{15}{227}, \frac{47}{227}, -\frac{12}{227}, -\frac{28}{227}, -\frac{28}{227}, \frac{62}{227})$ $+ \frac{5}{227}\sqrt{413}e^2 \otimes e_8 - \frac{5}{227}\sqrt{413}e^3 \otimes e_7 + \frac{8}{227}\sqrt{59}e^5 \otimes e_6$	{12345, 1236, 14578, 1678, 24679, 2579}
93:10	$0, 0, 0, 0, 0, \frac{1}{227}\sqrt{4661}e^{12}, \frac{1}{227}\sqrt{4661}e^{13},$ $\frac{1}{227}\sqrt{4366}e^{23} + \frac{1}{227}\sqrt{590}e^{45}$	$(-\frac{59}{227}, \frac{31}{227}, \frac{31}{227}, \frac{15}{227}, \frac{47}{227}, -\frac{12}{227}, -\frac{28}{227}, -\frac{28}{227}, \frac{62}{227})$ $+ \frac{5}{227}\sqrt{413}e^2 \otimes e_8 + \frac{5}{227}\sqrt{413}e^3 \otimes e_7 + \frac{8}{227}\sqrt{59}e^5 \otimes e_6$	{12345, 1236, 14578, 1678, 24679, 2579}
93:10	$0, 0, 0, 0, 0, \frac{1}{1629}\sqrt{73246}e^{12}, \frac{1}{1629}\sqrt{255670}e^{13},$ $\frac{1}{1629}\sqrt{17966}e^{23} + \frac{4}{1629}\sqrt{29713}e^{45}$	$(\frac{383}{1629}, -\frac{100}{543}, -\frac{8}{1629}, -\frac{154}{1629}, -\frac{154}{1629}, \frac{86}{181}, \frac{83}{1629}, \frac{125}{543}, -\frac{308}{1629})$ $+ \frac{1}{543}\sqrt{131290}e^1 \otimes e_9 + \frac{4}{1629}\sqrt{50443}e^6 \otimes e_7$	{123456, 1236, 14578, 178, 2479, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:10	$0, 0, 0, 0, 0, \frac{1}{1401}\sqrt{550910}e^{12}, \frac{2}{1401}\sqrt{32807}e^{13},$ $\frac{4}{1401}\sqrt{3095}e^{23} + \frac{2}{1401}\sqrt{90374}e^{45}$	$(-\frac{131}{467}, \frac{106}{467}, \frac{92}{1401}, \frac{544}{1401}, -\frac{134}{1401}, \frac{158}{1401}, -\frac{25}{467}, -\frac{301}{1401}, \frac{410}{1401})$ $+\frac{1}{1401}\sqrt{699470}e^2 \otimes e_8 + \frac{2}{1401}\sqrt{209841}e^4 \otimes e_7$	{123469, 12349, 156789, 15789, 267, 27, 34568, 3458}
93:10	$0, 0, 0, 0, 0, \frac{3}{181}\sqrt{2519}e^{12}, \frac{3}{362}\sqrt{2519}e^{13},$ $\frac{1}{181}\sqrt{2519}e^{23} + \frac{1}{362}\sqrt{25190}e^{45}$	$(-\frac{27}{181}, \frac{297}{724}, -\frac{53}{724}, \frac{66}{181}, -\frac{5}{181}, -\frac{97}{362}, \frac{189}{724}, -\frac{161}{724}, \frac{61}{181})$ $+\frac{1}{181}\sqrt{16259}e^4 \otimes e_6 + \frac{5}{362}\sqrt{3206}e^2 \otimes e_8$	{12345, 1236, 14578, 1678, 2479, 25679, 3489, 35689}
93:10	$0, 0, 0, 0, 0, \frac{2}{999}\sqrt{13195}e^{12}, \frac{2}{999}\sqrt{13195}e^{13},$ $\frac{28}{999}\sqrt{203}e^{23} + \frac{2}{999}\sqrt{15834}e^{45}$	$(-\frac{40}{999}, \frac{65}{333}, -\frac{19}{111}, \frac{215}{999}, -\frac{191}{999}, \frac{430}{999}, \frac{155}{999}, -\frac{211}{999}, \frac{8}{333})$ $+\frac{2}{999}\sqrt{74298}e^2 \otimes e_8 + \frac{406}{999}e^4 \otimes e_5 + \frac{4}{999}\sqrt{17255}e^6 \otimes e_9$	{2479, 2579, 3489, 3589}
93:10	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{34}e^{13}, \frac{2}{27}\sqrt{51}e^{23} + \frac{2}{27}\sqrt{170}e^{45}$	$(\frac{1}{27}, \frac{2}{9}, \frac{2}{27}, \frac{17}{27}, -\frac{5}{27}, -\frac{17}{27}, \frac{7}{27}, \frac{4}{9})$ $+\frac{2}{27}\sqrt{374}e^4 \otimes e_6$	{12349, 123569, 12458, 1268, 14789, 156789, 234789, 2356789, 2457, 267, 49, 569}
93:10	$0, 0, 0, 0, 0, \frac{1}{398}\sqrt{13195}e^{12}, \frac{1}{398}\sqrt{13195}e^{13},$ $\frac{7}{199}\sqrt{203}e^{23} + \frac{1}{398}\sqrt{15834}e^{45}$	$(-\frac{10}{199}, \frac{195}{796}, -\frac{171}{796}, \frac{3}{199}, \frac{3}{199}, \frac{215}{199}, \frac{155}{398}, -\frac{211}{796}, \frac{6}{199})$ $+\frac{1}{199}\sqrt{17255}e^6 \otimes e_9 + \frac{1}{398}\sqrt{74298}e^2 \otimes e_8$	{123456, 1236, 145678, 1678, 2479, 3489}
93:10	$0, 0, 0, 0, 0, \frac{6}{4229}\sqrt{64954}e^{12}, \frac{4}{4229}\sqrt{8983}e^{13},$ $\frac{4}{4229}\sqrt{163767}e^{23} + \frac{4}{4229}\sqrt{35241}e^{45}$	$(-\frac{562}{4229}, \frac{130}{4229}, \frac{950}{4229}, -\frac{151}{4229}, \frac{1231}{4229}, -\frac{1252}{4229}, \frac{432}{4229}, \frac{388}{4229}, \frac{1080}{4229})$ $+\frac{1382}{4229}e^5 \otimes e_4 + \frac{2}{4229}\sqrt{1115274}e^3 \otimes e_7 + \frac{4}{4229}\sqrt{274327}e^2 \otimes e_6$	{1234, 1235, 14678, 15678}
93:10	$0, 0, 0, 0, 0, \frac{5}{263}\sqrt{142}e^{12}, \frac{5}{263}\sqrt{142}e^{13}, \frac{10}{263}\sqrt{62}e^{23} + \frac{10}{263}\sqrt{6}e^{45}$	$(-\frac{50}{263}, \frac{15}{263}, \frac{15}{263}, \frac{15}{263}, \frac{80}{263}, -\frac{35}{263}, -\frac{35}{263}, \frac{30}{263})$ $+\frac{10}{263}\sqrt{59}e^6 \otimes e_9 + \frac{5}{263}\sqrt{366}e^2 \otimes e_8 + \frac{5}{263}\sqrt{366}e^3 \otimes e_7$	{123456, 1236, 145678, 1678, 2479}
93:10	$0, 0, 0, 0, 0, \frac{5}{263}\sqrt{142}e^{12}, \frac{5}{263}\sqrt{142}e^{13}, \frac{10}{263}\sqrt{62}e^{23} + \frac{10}{263}\sqrt{6}e^{45}$	$(-\frac{50}{263}, \frac{15}{263}, \frac{15}{263}, \frac{15}{263}, \frac{80}{263}, -\frac{35}{263}, -\frac{35}{263}, \frac{30}{263})$ $+\frac{10}{263}\sqrt{59}e^6 \otimes e_9 + \frac{5}{263}\sqrt{366}e^2 \otimes e_8 - \frac{5}{263}\sqrt{366}e^3 \otimes e_7$	{123456, 1236, 145678, 1678, 2479}
93:10	$0, 0, 0, 0, 0, \frac{2}{399}\sqrt{7458}e^{12}, \frac{2}{399}\sqrt{7458}e^{13},$ $\frac{2}{399}\sqrt{2486}e^{23} + \frac{4}{399}\sqrt{2486}e^{45}$	$(\frac{22}{57}, -\frac{12}{133}, -\frac{12}{133}, \frac{11}{57}, -\frac{149}{399}, \frac{52}{399}, \frac{118}{399}, \frac{118}{399}, -\frac{24}{133})$ $+\frac{226}{399}e^4 \otimes e_5 + \frac{2}{133}\sqrt{2938}e^1 \otimes e_9$	{24679, 2479, 25679, 2579}
93:10	$0, 0, 0, 0, 0, \frac{1}{1697}\sqrt{228810}e^{12}, \frac{3}{1697}\sqrt{15254}e^{13},$ $\frac{1}{1697}\sqrt{68906}e^{23} + \frac{6}{1697}\sqrt{7627}e^{45}$	$(\frac{129}{1697}, -\frac{154}{1697}, \frac{20}{1697}, \frac{238}{1697}, -\frac{372}{1697}, \frac{412}{1697}, -\frac{25}{1697}, \frac{149}{1697}, -\frac{134}{1697})$ $+\frac{15}{1697}\sqrt{1578}e^1 \otimes e_9 + \frac{2}{1697}\sqrt{34453}e^6 \otimes e_8 + \frac{2}{1697}\sqrt{80215}e^4 \otimes e_7$	{12458, 1367, 235789, 469}
93:10	$0, 0, 0, 0, 0, \frac{11}{138}\sqrt{65}e^{12}, \frac{11}{138}\sqrt{65}e^{13}, \frac{1}{69}\sqrt{2002}e^{23} + \frac{1}{138}\sqrt{286}e^{45}$	$(-\frac{5}{23}, \frac{55}{92}, -\frac{61}{276}, \frac{13}{69}, \frac{13}{69}, \frac{25}{138}, \frac{35}{92}, -\frac{121}{276}, \frac{26}{69})$ $+\frac{1}{138}\sqrt{32318}e^2 \otimes e_8$	{1234, 12346, 14678, 1478, 245679, 24579, 2679, 279, 345689, 34589, 3689, 389}
93:10	$0, 0, 0, 0, 0, \frac{4}{539}\sqrt{12815}e^{12}, \frac{2}{539}\sqrt{1398}e^{13},$ $\frac{2}{539}\sqrt{26795}e^{23} + \frac{2}{539}\sqrt{50794}e^{45}$	$(-\frac{127}{539}, -\frac{18}{539}, \frac{208}{539}, \frac{321}{539}, -\frac{131}{539}, \frac{87}{539}, -\frac{145}{539}, \frac{81}{539}, \frac{190}{539})$ $+\frac{4}{539}\sqrt{26329}e^4 \otimes e_7$	{1234689, 123489, 1245, 12456, 13678, 1378, 15679, 1579, 235679, 23579, 2678, 278, 345, 3456, 4689, 489}
93:10	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{37}e^{12}, \frac{2}{41}\sqrt{37}e^{13}, \frac{6}{287}\sqrt{222}e^{23} + \frac{2}{287}\sqrt{370}e^{45}$	$(-\frac{74}{287}, \frac{34}{287}, \frac{34}{287}, -\frac{3}{287}, \frac{71}{287}, \frac{24}{287}, -\frac{40}{287}, -\frac{40}{287}, \frac{68}{287})$ $+\frac{2}{287}\sqrt{4181}e^2 \otimes e_8 - \frac{2}{287}\sqrt{4181}e^3 \otimes e_7 + \frac{74}{287}e^5 \otimes e_4$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578}
93:10	$0, 0, 0, 0, 0, \frac{2}{41}\sqrt{37}e^{12}, \frac{2}{41}\sqrt{37}e^{13}, \frac{6}{287}\sqrt{222}e^{23} + \frac{2}{287}\sqrt{370}e^{45}$	$(-\frac{74}{287}, \frac{34}{287}, \frac{34}{287}, -\frac{3}{287}, \frac{71}{287}, \frac{24}{287}, -\frac{40}{287}, -\frac{40}{287}, \frac{68}{287})$ $+\frac{2}{287}\sqrt{4181}e^2 \otimes e_8 + \frac{2}{287}\sqrt{4181}e^3 \otimes e_7 + \frac{74}{287}e^5 \otimes e_4$	{1234, 12346, 1235, 12356, 14678, 1478, 15678, 1578}
93:10	$0, 0, 0, 0, 0, \frac{13}{432}\sqrt{139}e^{12}, \frac{13}{432}\sqrt{139}e^{13}, \frac{13}{432}\sqrt{6}e^{23} + \frac{13}{432}\sqrt{290}e^{45}$	$(\frac{17}{54}, -\frac{11}{288}, -\frac{11}{288}, \frac{31}{216}, -\frac{95}{432}, -\frac{107}{432}, \frac{239}{864}, \frac{239}{864}, -\frac{11}{144})$ $+\frac{13}{432}\sqrt{314}e^4 \otimes e_6 + \frac{65}{144}\sqrt{2}e^1 \otimes e_9$	{12458, 1268, 234789, 2356789, 49, 569}
93:10	$0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{104122}e^{12}, \frac{10}{1457}\sqrt{659}e^{13},$ $\frac{2}{1457}\sqrt{3295}e^{23} + \frac{1}{1457}\sqrt{644502}e^{45}$	$(-\frac{110}{1457}, -\frac{150}{1457}, \frac{216}{1457}, \frac{399}{1457}, -\frac{333}{1457}, \frac{725}{1457}, -\frac{260}{1457}, \frac{106}{1457}, \frac{66}{1457})$ $+\frac{1}{1457}\sqrt{749942}e^6 \otimes e_9 + \frac{2}{1457}\sqrt{241194}e^4 \otimes e_7$	{123489, 12456, 13678, 1579, 23579, 2678, 3456, 489}
93:10	$0, 0, 0, 0, 0, \frac{2}{3533}\sqrt{203313}e^{12}, \frac{2}{3533}\sqrt{23973}e^{13},$ $\frac{6}{3533}\sqrt{1403}e^{23} + \frac{6}{3533}\sqrt{18239}e^{45}$	$(\frac{331}{3533}, -\frac{121}{3533}, \frac{86}{3533}, -\frac{611}{3533}, \frac{576}{3533}, -\frac{487}{3533}, \frac{210}{3533}, \frac{417}{3533}, -\frac{35}{3533})$ $+\frac{2}{3533}\sqrt{141459}e^2 \otimes e_6 + \frac{2}{3533}\sqrt{217221}e^5 \otimes e_7 + \frac{6}{3533}\sqrt{26169}e^1 \otimes e_9$	{12345, 1678, 2479, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{443}\sqrt{9794}e^{12}, \frac{2}{443}\sqrt{249}e^{13}, \frac{2}{443}\sqrt{7055}e^{23} + \frac{8}{443}\sqrt{913}e^{45}$	$(-\frac{79}{443}, \frac{9}{443}, \frac{124}{443}, \frac{37}{443}, \frac{96}{443}, -\frac{129}{443}, -\frac{70}{443}, \frac{45}{443}, \frac{133}{443})$ $+ \frac{2}{443}\sqrt{19090}e^5 \otimes e_7 + \frac{6}{443}\sqrt{1577}e^4 \otimes e_6$	{123569, 12458, 1367, 14789, 234789, 267, 3458, 569}
93:10	$0, 0, 0, 0, 0, 0, \frac{198}{4237}\sqrt{86}e^{12}, \frac{396}{4237}\sqrt{6}e^{13}, \frac{36}{4237}\sqrt{671}e^{23} + \frac{36}{4237}\sqrt{110}e^{45}$	$(-\frac{846}{4237}, \frac{792}{4237}, -\frac{144}{4237}, \frac{1215}{4237}, -\frac{567}{4237}, \frac{1728}{4237}, -\frac{54}{4237}, -\frac{990}{4237}, \frac{648}{4237})$ $+ \frac{1782}{4237}e^4 \otimes e_5 + \frac{18}{4237}\sqrt{17798}e^2 \otimes e_8 + \frac{396}{4237}\sqrt{31}e^6 \otimes e_7$	{2479, 2579, 34689, 35689}
93:10	$0, 0, 0, 0, 0, 0, \frac{4}{3163}\sqrt{70513}e^{12}, \frac{4}{3163}\sqrt{11770}e^{13}, \frac{4}{3163}\sqrt{21935}e^{23} + \frac{4}{3163}\sqrt{72867}e^{45}$	$(-\frac{490}{3163}, \frac{330}{3163}, -\frac{36}{3163}, \frac{696}{3163}, -\frac{402}{3163}, \frac{1150}{3163}, -\frac{160}{3163}, \frac{526}{3163}, \frac{294}{3163})$ $+ \frac{12}{3163}\sqrt{13054}e^4 \otimes e_7 + \frac{4}{3163}\sqrt{93197}e^6 \otimes e_9 + \frac{4}{3163}\sqrt{97905}e^2 \otimes e_8$	{123456, 1678, 2579, 3489}
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{1411}\sqrt{155595}e^{12}, \frac{16}{1411}\sqrt{615}e^{13}, \frac{3}{1411}\sqrt{2870}e^{23} + \frac{3}{1411}\sqrt{37310}e^{45}$	$(-\frac{235}{1411}, \frac{11}{83}, \frac{250}{1411}, \frac{567}{1411}, -\frac{130}{1411}, -\frac{428}{1411}, -\frac{48}{1411}, \frac{15}{1411}, \frac{437}{1411})$ $+ \frac{1}{1411}\sqrt{702330}e^2 \otimes e_6 + \frac{41}{1411}\sqrt{510}e^4 \otimes e_7$	{123458, 1249, 1356789, 167, 237, 25789, 3469, 4568}
93:10	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{6}{17}\sqrt{3}e^{23} + \frac{6}{17}\sqrt{2}e^{45}$	$(\frac{7}{17}, \frac{1}{17}, \frac{1}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{11}{17}, \frac{8}{17}, \frac{8}{17}, \frac{2}{17})$ $+ \frac{6}{17}\sqrt{14}e^1 \otimes e_6$	{12349, 12458, 128, 14789, 2346789, 24567, 267, 469}
93:10	$0, 0, 0, 0, 0, 0, \frac{99}{1673}\sqrt{86}e^{12}, \frac{198}{1673}\sqrt{6}e^{13}, \frac{18}{1673}\sqrt{671}e^{23} + \frac{18}{1673}\sqrt{110}e^{45}$	$(-\frac{423}{1673}, \frac{396}{1673}, -\frac{72}{1673}, \frac{162}{1673}, \frac{162}{1673}, \frac{864}{1673}, -\frac{27}{1673}, -\frac{495}{1673}, \frac{324}{1673})$ $+ \frac{198}{1673}\sqrt{31}e^6 \otimes e_7 + \frac{9}{1673}\sqrt{17798}e^2 \otimes e_8$	{123456, 1236, 14578, 178, 2479, 34689}
93:10	$0, 0, 0, 0, 0, 0, \frac{6}{3949}\sqrt{73246}e^{12}, \frac{2}{3949}\sqrt{255670}e^{13}, \frac{2}{3949}\sqrt{17966}e^{23} + \frac{8}{3949}\sqrt{29713}e^{45}$	$(\frac{766}{3949}, -\frac{600}{3949}, -\frac{16}{3949}, \frac{383}{3949}, -\frac{999}{3949}, \frac{1548}{3949}, \frac{166}{3949}, \frac{750}{3949}, -\frac{56}{359})$ $+ \frac{1382}{3949}e^4 \otimes e_5 + \frac{6}{3949}\sqrt{131290}e^1 \otimes e_9 + \frac{8}{3949}\sqrt{50443}e^6 \otimes e_7$	{2479, 2579, 34689, 35689}
93:10	$0, 0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{12}{197}\sqrt{17}e^{13}, \frac{8}{197}\sqrt{17}e^{23} + \frac{4}{197}\sqrt{170}e^{45}$	$(\frac{27}{197}, \frac{27}{197}, -\frac{34}{197}, -\frac{22}{197}, \frac{15}{197}, -\frac{19}{197}, \frac{54}{197}, -\frac{7}{197}, -\frac{7}{197})$ $+ \frac{18}{197}\sqrt{17}e^1 \otimes e_9 + \frac{2}{197}\sqrt{1037}e^2 \otimes e_8 + \frac{2}{197}\sqrt{629}e^5 \otimes e_6$	{12345, 1236, 14578, 1678, 24679, 2579, 34689, 3589}
93:10	$0, 0, 0, 0, 0, 0, \frac{12}{197}\sqrt{17}e^{12}, \frac{12}{197}\sqrt{17}e^{13}, \frac{8}{197}\sqrt{17}e^{23} + \frac{4}{197}\sqrt{170}e^{45}$	$(\frac{27}{197}, \frac{27}{197}, -\frac{34}{197}, -\frac{22}{197}, \frac{15}{197}, -\frac{19}{197}, \frac{54}{197}, -\frac{7}{197}, -\frac{7}{197})$ $+ \frac{18}{197}\sqrt{17}e^1 \otimes e_9 - \frac{2}{197}\sqrt{1037}e^2 \otimes e_8 + \frac{2}{197}\sqrt{629}e^5 \otimes e_6$	{12345, 1236, 14578, 1678, 24679, 2579, 34689, 3589}
93:10	$0, 0, 0, 0, 0, 0, \frac{3}{434}\sqrt{7414}e^{12}, \frac{1}{217}\sqrt{1685}e^{13}, \frac{1}{434}\sqrt{14491}e^{23} + \frac{1}{434}\sqrt{15502}e^{45}$	$(-\frac{83}{868}, -\frac{15}{217}, \frac{79}{434}, \frac{193}{434}, -\frac{72}{217}, \frac{531}{868}, -\frac{143}{868}, \frac{75}{868}, \frac{7}{62})$ $+ \frac{1}{217}\sqrt{36733}e^6 \otimes e_7 + \frac{337}{434}e^4 \otimes e_5$	{1234689, 1235689, 1479, 1579, 23479, 23579, 4689, 5689}
93:10	$0, 0, 0, 0, 0, 0, \frac{26}{4345}\sqrt{1142}e^{12}, \frac{26}{4345}\sqrt{15}e^{13}, \frac{26}{4345}\sqrt{419}e^{23} + \frac{52}{4345}\sqrt{397}e^{45}$	$(\frac{331}{4345}, -\frac{387}{4345}, \frac{76}{869}, -\frac{289}{4345}, \frac{282}{4345}, -\frac{57}{395}, -\frac{56}{4345}, \frac{9}{55}, -\frac{7}{4345})$ $+ \frac{156}{4345}\sqrt{42}e^1 \otimes e_9 + \frac{26}{4345}\sqrt{1534}e^5 \otimes e_7 + \frac{78}{4345}\sqrt{107}e^4 \otimes e_6$	{12458, 1367, 234789, 569}
93:10	$0, 0, 0, 0, 0, 0, \frac{36}{1057}\sqrt{67}e^{12}, \frac{9}{1057}\sqrt{642}e^{13}, \frac{9}{1057}\sqrt{370}e^{23} + \frac{36}{1057}\sqrt{34}e^{45}$	$(\frac{72}{1057}, \frac{72}{1057}, -\frac{162}{1057}, -\frac{45}{1057}, -\frac{45}{1057}, \frac{306}{1057}, \frac{144}{1057}, -\frac{90}{1057}, -\frac{90}{1057})$ $+ \frac{18}{1057}\sqrt{215}e^6 \otimes e_7 + \frac{27}{1057}\sqrt{182}e^1 \otimes e_9 + \frac{9}{1057}\sqrt{1366}e^2 \otimes e_8$	{123456, 1236, 14578, 178, 2479, 34689}
93:10	$0, 0, 0, 0, 0, 0, \frac{36}{1057}\sqrt{67}e^{12}, \frac{9}{1057}\sqrt{642}e^{13}, \frac{9}{1057}\sqrt{370}e^{23} + \frac{36}{1057}\sqrt{34}e^{45}$	$(\frac{72}{1057}, \frac{72}{1057}, -\frac{162}{1057}, -\frac{45}{1057}, -\frac{45}{1057}, \frac{306}{1057}, \frac{144}{1057}, -\frac{90}{1057}, -\frac{90}{1057})$ $+ \frac{18}{1057}\sqrt{215}e^6 \otimes e_7 + \frac{27}{1057}\sqrt{182}e^1 \otimes e_9 - \frac{9}{1057}\sqrt{1366}e^2 \otimes e_8$	{123456, 1236, 14578, 178, 2479, 34689}
93:10	$0, 0, 0, 0, 0, 0, \frac{3}{1769}\sqrt{64954}e^{12}, \frac{2}{1769}\sqrt{8983}e^{13}, \frac{2}{1769}\sqrt{163767}e^{23} + \frac{2}{1769}\sqrt{35241}e^{45}$	$(-\frac{281}{1769}, \frac{65}{1769}, \frac{475}{1769}, \frac{270}{1769}, \frac{270}{1769}, -\frac{626}{1769}, -\frac{216}{1769}, \frac{194}{1769}, \frac{540}{1769})$ $+ \frac{1}{1769}\sqrt{1115274}e^3 \otimes e_7 + \frac{2}{1769}\sqrt{274327}e^2 \otimes e_6$	{1234, 14678, 24579, 279, 345689, 3689}
93:10	$0, 0, 0, 0, 0, 0, \frac{1}{1717}\sqrt{386558}e^{12}, \frac{1}{1717}\sqrt{122838}e^{13}, \frac{1}{1717}\sqrt{90914}e^{23} + \frac{4}{1717}\sqrt{26719}e^{45}$	$(\frac{223}{1717}, -\frac{252}{1717}, \frac{128}{1717}, \frac{318}{1717}, -\frac{26}{101}, \frac{174}{1717}, -\frac{29}{1717}, \frac{351}{1717}, -\frac{124}{1717})$ $+ \frac{3}{1717}\sqrt{60378}e^1 \otimes e_9 + \frac{4}{1717}\sqrt{32965}e^4 \otimes e_7$	{124568, 12458, 1367, 137, 2356789, 235789, 469, 49}
93:10	$0, 0, 0, 0, 0, 0, \frac{22}{111}\sqrt{5}e^{12}, \frac{22}{111}\sqrt{5}e^{13}, \frac{2}{111}\sqrt{22}e^{23} + \frac{2}{111}\sqrt{77}e^{45}$	$(\frac{2}{37}, \frac{11}{37}, -\frac{17}{111}, \frac{8}{111}, \frac{8}{111}, -\frac{38}{111}, \frac{13}{37}, -\frac{11}{111}, \frac{16}{111})$ $+ \frac{20}{111}\sqrt{11}e^2 \otimes e_8 + \frac{22}{37}e^1 \otimes e_6$	{123, 12345, 14578, 178, 24679, 34689}
93:10	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{5}e^{13}, \frac{3}{13}\sqrt{3}e^{23} + \frac{3}{13}\sqrt{2}e^{45}$	$(\frac{7}{26}, \frac{1}{26}, \frac{1}{26}, \frac{5}{13}, -\frac{4}{13}, -\frac{11}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{14}e^1 \otimes e_6 + \frac{9}{13}e^4 \otimes e_5$	{12349, 12359, 14789, 15789, 2346789, 2356789, 469, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{230}e^{12}, \frac{2}{93}\sqrt{230}e^{13}, \frac{1}{93}\sqrt{598}e^{23} + \frac{2}{93}\sqrt{161}e^{45}$	$(\frac{5}{31}, \frac{5}{31}, -\frac{23}{93}, -\frac{4}{93}, -\frac{4}{93}, \frac{10}{93}, \frac{10}{31}, -\frac{8}{93}, -\frac{8}{93})$ $+ \frac{1}{31}\sqrt{230}e^1 \otimes e_9 - \frac{2}{93}\sqrt{437}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 145678, 14578, 1678, 178, 24679, 2479, 34689, 3489}
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{230}e^{12}, \frac{2}{93}\sqrt{230}e^{13}, \frac{1}{93}\sqrt{598}e^{23} + \frac{2}{93}\sqrt{161}e^{45}$	$(\frac{5}{31}, \frac{5}{31}, -\frac{23}{93}, -\frac{4}{93}, -\frac{4}{93}, \frac{10}{93}, \frac{10}{31}, -\frac{8}{93}, -\frac{8}{93})$ $+ \frac{1}{31}\sqrt{230}e^1 \otimes e_9 + \frac{2}{93}\sqrt{437}e^2 \otimes e_8$	{123, 12345, 123456, 1236, 145678, 14578, 1678, 178, 24679, 2479, 34689, 3489}
93:10	$0, 0, 0, 0, 0, 0, \frac{22}{133}\sqrt{5}e^{12}, \frac{22}{133}\sqrt{5}e^{13}, \frac{2}{133}\sqrt{22}e^{23} + \frac{2}{133}\sqrt{77}e^{45}$	$(\frac{6}{133}, \frac{33}{133}, -\frac{17}{133}, -\frac{2}{133}, \frac{30}{19}, \frac{30}{133}, -\frac{2}{7}, \frac{39}{133}, -\frac{11}{133}, \frac{16}{133})$ $+ \frac{20}{133}\sqrt{11}e^2 \otimes e_8 + \frac{44}{133}e^5 \otimes e_4 + \frac{66}{133}e^1 \otimes e_6$	{24679, 25679, 34689, 35689}
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{1585}\sqrt{113163}e^{12}, \frac{4}{1585}\sqrt{6193}e^{13},$ $\frac{1}{1585}\sqrt{327666}e^{23} + \frac{2}{1585}\sqrt{62493}e^{45}$	$(\frac{467}{1585}, \frac{109}{1585}, -\frac{41}{317}, -\frac{48}{1585}, -\frac{48}{1585}, -\frac{454}{1585}, \frac{576}{1585}, \frac{262}{1585}, -\frac{96}{1585})$ $+ \frac{2}{1585}\sqrt{176782}e^2 \otimes e_6 + \frac{3}{1585}\sqrt{97962}e^1 \otimes e_9$	{123, 12345, 145678, 1678, 2479, 34689}
93:10	$0, 0, 0, 0, 0, 0, \frac{126}{3337}\sqrt{94}e^{12}, \frac{42}{3337}\sqrt{179}e^{13},$ $\frac{42}{3337}\sqrt{291}e^{23} + \frac{84}{3337}\sqrt{235}e^{45}$	$(-\frac{741}{3337}, \frac{537}{3337}, \frac{396}{3337}, \frac{255}{3337}, \frac{678}{3337}, -\frac{627}{3337}, -\frac{204}{3337}, -\frac{345}{3337}, \frac{933}{3337})$ $+ \frac{42}{3337}\sqrt{1334}e^5 \otimes e_7 + \frac{42}{3337}\sqrt{911}e^4 \otimes e_6 + \frac{84}{3337}\sqrt{202}e^2 \otimes e_8$	{123569, 14789, 267, 3458}
93:10	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{4}{209}\sqrt{230}e^{13}, \frac{2}{209}\sqrt{598}e^{23} + \frac{4}{209}\sqrt{161}e^{45}$	$(\frac{30}{209}, \frac{30}{209}, -\frac{46}{209}, -\frac{31}{209}, \frac{15}{209}, \frac{20}{209}, \frac{60}{209}, -\frac{16}{209}, -\frac{16}{209})$ $+ \frac{46}{209}e^5 \otimes e_4 - \frac{4}{209}\sqrt{437}e^2 \otimes e_8 + \frac{6}{209}\sqrt{230}e^1 \otimes e_9$	{24679, 2479, 25679, 2579, 34689, 3489, 35689, 3589}
93:10	$0, 0, 0, 0, 0, 0, \frac{4}{209}\sqrt{230}e^{12}, \frac{4}{209}\sqrt{230}e^{13}, \frac{2}{209}\sqrt{598}e^{23} + \frac{4}{209}\sqrt{161}e^{45}$	$(\frac{30}{209}, \frac{30}{209}, -\frac{46}{209}, -\frac{31}{209}, \frac{15}{209}, \frac{20}{209}, \frac{60}{209}, -\frac{16}{209}, -\frac{16}{209})$ $+ \frac{46}{209}e^5 \otimes e_4 + \frac{4}{209}\sqrt{437}e^2 \otimes e_8 + \frac{6}{209}\sqrt{230}e^1 \otimes e_9$	{24679, 2479, 25679, 2579, 34689, 3489, 35689, 3589}
93:10	$0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{102}e^{13}, \frac{2}{15}\sqrt{34}e^{23} + \frac{1}{45}\sqrt{1122}e^{45}$	$(\frac{2}{9}, -\frac{1}{15}, -\frac{1}{15}, -\frac{1}{15}, -\frac{1}{15}, 1, \frac{7}{45}, \frac{7}{45}, -\frac{2}{15})$ $+ \frac{1}{45}\sqrt{3774}e^6 \otimes e_9$	{12345678, 123678, 12479, 1456, 16, 23456, 236, 2489, 45678, 678}
93:10	$0, 0, 0, 0, 0, 0, \frac{4}{3733}\sqrt{113163}e^{12}, \frac{8}{3733}\sqrt{6193}e^{13},$ $\frac{2}{3733}\sqrt{327666}e^{23} + \frac{4}{3733}\sqrt{62493}e^{45}$	$(\frac{934}{3733}, \frac{218}{3733}, -\frac{410}{3733}, -\frac{659}{3733}, \frac{467}{3733}, -\frac{908}{3733}, \frac{1152}{3733}, \frac{524}{3733}, -\frac{192}{3733})$ $+ \frac{1126}{3733}e^5 \otimes e_4 + \frac{4}{3733}\sqrt{176782}e^2 \otimes e_6 + \frac{6}{3733}\sqrt{97962}e^1 \otimes e_9$	{2479, 2579, 34689, 35689}
93:10	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{159}e^{13}, \frac{1}{33}\sqrt{53}e^{23} + \frac{2}{33}\sqrt{53}e^{45}$	$(\frac{7}{66}, \frac{3}{22}, \frac{3}{22}, \frac{31}{33}, -\frac{2}{3}, \frac{13}{66}, \frac{8}{33}, \frac{8}{33}, \frac{3}{11})$ $+ \frac{53}{33}e^4 \otimes e_5$	{124689, 12489, 125689, 12589, 24679, 2479, 25679, 2579}
93:10	$0, 0, 0, 0, 0, 0, \frac{7}{125}\sqrt{37}e^{12}, \frac{7}{125}\sqrt{37}e^{13}, \frac{3}{125}\sqrt{222}e^{23} + \frac{1}{125}\sqrt{370}e^{45}$	$(-\frac{37}{125}, \frac{17}{125}, \frac{17}{125}, \frac{17}{125}, \frac{17}{125}, \frac{12}{125}, -\frac{4}{25}, -\frac{4}{25}, \frac{34}{125})$ $+ \frac{1}{125}\sqrt{4181}e^2 \otimes e_8 + \frac{1}{125}\sqrt{4181}e^3 \otimes e_7$	{1234, 12346, 14678, 1478, 245679, 24579, 2679, 279}
93:10	$0, 0, 0, 0, 0, 0, \frac{7}{125}\sqrt{37}e^{12}, \frac{7}{125}\sqrt{37}e^{13}, \frac{3}{125}\sqrt{222}e^{23} + \frac{1}{125}\sqrt{370}e^{45}$	$(-\frac{37}{125}, \frac{17}{125}, \frac{17}{125}, \frac{17}{125}, \frac{17}{125}, \frac{12}{125}, -\frac{4}{25}, -\frac{4}{25}, \frac{34}{125})$ $+ \frac{1}{125}\sqrt{4181}e^2 \otimes e_8 - \frac{1}{125}\sqrt{4181}e^3 \otimes e_7$	{1234, 12346, 14678, 1478, 245679, 24579, 2679, 279}
93:10	$0, 0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{12}, \frac{2}{527}\sqrt{20951}e^{13},$ $\frac{2}{527}\sqrt{45633}e^{23} + \frac{4}{527}\sqrt{1722}e^{45}$	$(\frac{13}{527}, \frac{13}{31}, \frac{1}{527}, \frac{111}{527}, \frac{111}{527}, -\frac{353}{527}, \frac{234}{527}, \frac{14}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^2 \otimes e_6$	{12348, 12459, 129, 13456789, 136789, 1467, 2347, 245789, 2789, 34569, 369, 468}
93:10	$0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{7414}e^{12}, \frac{4}{531}\sqrt{1685}e^{13},$ $\frac{2}{531}\sqrt{14491}e^{23} + \frac{2}{531}\sqrt{15502}e^{45}$	$(-\frac{83}{531}, -\frac{20}{177}, \frac{158}{531}, \frac{49}{531}, \frac{49}{531}, 1, -\frac{143}{531}, \frac{25}{177}, \frac{98}{531})$ $+ \frac{4}{531}\sqrt{36733}e^6 \otimes e_7$	{1234689, 12456, 126, 134578, 1378, 1479, 23479, 24578, 278, 3456, 36, 4689}
93:11	$0, 0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12}, \frac{2}{71}\sqrt{10}e^{13}, \frac{2}{71}\sqrt{10}e^{24} + \frac{12}{71}\sqrt{5}e^{35}$	$(\frac{16}{71}, \frac{8}{71}, -\frac{11}{71}, -\frac{12}{71}, \frac{7}{71}, -\frac{13}{71}, \frac{24}{71}, \frac{5}{71}, -\frac{4}{71})$ $+ \frac{2}{71}\sqrt{190}e^2 \otimes e_4 + \frac{2}{71}\sqrt{190}e^5 \otimes e_6 + \frac{6}{71}\sqrt{30}e^1 \otimes e_9$	{12358, 126, 134578, 1467}
93:11	$0, 0, 0, 0, 0, 0, \frac{3}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{33782}e^{13},$ $\frac{2}{377}\sqrt{11305}e^{24} + \frac{4}{377}\sqrt{1463}e^{35}$	$(-\frac{49}{377}, \frac{37}{377}, -\frac{6}{377}, \frac{6}{29}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{55}{377}, \frac{115}{377})$ $+ \frac{1}{377}\sqrt{34314}e^2 \otimes e_6 + \frac{1}{377}\sqrt{57190}e^4 \otimes e_8$	{12347, 12789, 134569, 1568, 23589, 245, 3678, 4679}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{56170}e^{12}, \frac{1}{457}\sqrt{9430}e^{13},$ $\frac{1}{457}\sqrt{9430}e^{24} + \frac{20}{457}\sqrt{82}e^{35}$	$(\frac{126}{457}, \frac{63}{457}, -\frac{51}{457}, -\frac{142}{457}, -\frac{28}{457}, \frac{52}{457}, \frac{189}{457}, \frac{75}{457}, -\frac{79}{457})$ $+ \frac{3}{457}\sqrt{7790}e^2 \otimes e_4 + \frac{6}{457}\sqrt{2665}e^1 \otimes e_9$	{236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{638}e^{12}, \frac{1}{32}\sqrt{66}e^{13}, \frac{1}{64}\sqrt{638}e^{24} + \frac{1}{32}\sqrt{66}e^{35}$	$(\frac{9}{32}, -\frac{11}{32}, -\frac{5}{64}, \frac{9}{32}, \frac{1}{64}, \frac{7}{64}, -\frac{1}{16}, \frac{13}{64}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1122}e^4 \otimes e_7 + \frac{3}{64}\sqrt{154}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{638}e^{12}, \frac{1}{32}\sqrt{66}e^{13}, \frac{1}{64}\sqrt{638}e^{24} + \frac{1}{32}\sqrt{66}e^{35}$	$(\frac{9}{32}, -\frac{11}{32}, -\frac{5}{64}, \frac{9}{32}, \frac{1}{64}, \frac{7}{64}, -\frac{1}{16}, \frac{13}{64}, -\frac{1}{16})$ $- \frac{1}{64}\sqrt{1122}e^4 \otimes e_7 + \frac{3}{64}\sqrt{154}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{40774}e^{12}, \frac{1}{1475}\sqrt{450718}e^{13},$ $\frac{1}{1475}\sqrt{662302}e^{24} + \frac{1}{1475}\sqrt{320682}e^{35}$	$(-\frac{47}{295}, \frac{67}{295}, \frac{19}{1475}, \frac{112}{1475}, \frac{428}{1475}, -\frac{439}{1475}, \frac{4}{59}, -\frac{216}{1475}, \frac{447}{1475})$ $+ \frac{24}{1475}\sqrt{1102}e^4 \otimes e_6 + \frac{2}{1475}\sqrt{209931}e^2 \otimes e_8$	{12347, 1235679, 1489, 1568, 245, 269, 345789, 3678}
93:11	$0, 0, 0, 0, 0, 0, \frac{15}{79}\sqrt{2}e^{12}, \frac{15}{79}\sqrt{2}e^{13}, \frac{6}{79}\sqrt{10}e^{24} + \frac{6}{79}\sqrt{10}e^{35}$	$(-\frac{18}{79}, \frac{11}{79}, \frac{11}{79}, -\frac{3}{79}, -\frac{3}{79}, \frac{26}{79}, -\frac{7}{79}, -\frac{7}{79}, \frac{8}{79})$ $+ \frac{3}{79}\sqrt{106}e^2 \otimes e_8 + \frac{3}{79}\sqrt{106}e^3 \otimes e_7 + \frac{6}{79}\sqrt{19}e^6 \otimes e_9$	{123456, 1239, 145789, 1678, 2467, 2579}
93:11	$0, 0, 0, 0, 0, 0, \frac{15}{79}\sqrt{2}e^{12}, \frac{15}{79}\sqrt{2}e^{13}, \frac{6}{79}\sqrt{10}e^{24} + \frac{6}{79}\sqrt{10}e^{35}$	$(-\frac{18}{79}, \frac{11}{79}, \frac{11}{79}, -\frac{3}{79}, -\frac{3}{79}, \frac{26}{79}, -\frac{7}{79}, -\frac{7}{79}, \frac{8}{79})$ $+ \frac{3}{79}\sqrt{106}e^2 \otimes e_8 - \frac{3}{79}\sqrt{106}e^3 \otimes e_7 + \frac{6}{79}\sqrt{19}e^6 \otimes e_9$	{123456, 1239, 145789, 1678, 2467, 2579}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{24} + \frac{1}{71}\sqrt{53}e^{35}$	$(-\frac{12}{71}, \frac{30}{71}, -\frac{3}{142}, -\frac{23}{71}, \frac{17}{142}, \frac{79}{142}, \frac{18}{142}, \frac{27}{71}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 + \frac{3}{71}\sqrt{371}e^6 \otimes e_8$	{1236, 1258, 13467, 14578, 2378, 2567, 348, 456}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{1543}\sqrt{4953}e^{12}, \frac{24}{1543}\sqrt{130}e^{13},$ $\frac{8}{1543}\sqrt{715}e^{24} + \frac{8}{1543}\sqrt{5187}e^{35}$	$(-\frac{162}{1543}, \frac{74}{1543}, -\frac{180}{1543}, \frac{74}{1543}, \frac{328}{1543}, \frac{564}{1543}, -\frac{88}{1543}, -\frac{342}{1543}, \frac{148}{1543})$ $+ \frac{104}{1543}\sqrt{46}e^5 \otimes e_7 + \frac{8}{1543}\sqrt{4953}e^2 \otimes e_8 + \frac{8}{1543}\sqrt{5655}e^6 \otimes e_9$	{1259, 134789, 2379, 4589}
93:11	$0, 0, 0, 0, 0, 0, \frac{7}{1529}\sqrt{4910}e^{12}, \frac{14}{1529}\sqrt{1473}e^{13},$ $\frac{10}{1529}\sqrt{4910}e^{24} + \frac{12}{1529}\sqrt{1473}e^{35}$	$(-\frac{393}{1529}, \frac{166}{1529}, \frac{68}{1529}, \frac{24}{139}, \frac{362}{1529}, \frac{146}{1529}, \frac{227}{1529}, -\frac{325}{1529}, \frac{430}{1529})$ $+ \frac{2}{1529}\sqrt{151719}e^4 \otimes e_7 + \frac{3}{1529}\sqrt{83470}e^2 \otimes e_8$	{1234, 12346, 15678, 1578, 2679, 279, 345689, 34589}
93:11	$0, 0, 0, 0, 0, 0, \frac{16}{55}\sqrt{2}e^{12}, \frac{8}{55}\sqrt{21}e^{13}, \frac{8}{55}\sqrt{21}e^{24} + \frac{16}{55}\sqrt{3}e^{35}$	$(-\frac{7}{55}, -\frac{7}{55}, -\frac{3}{55}, \frac{2}{55}, \frac{18}{55}, \frac{18}{55}, -\frac{14}{55}, -\frac{2}{11}, \frac{3}{11})$ $+ \frac{16}{55}\sqrt{3}e^6 \otimes e_7 + \frac{8}{55}\sqrt{37}e^4 \otimes e_8$	{12347, 12789, 134569, 1568, 235689, 2456, 378, 479}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{481}\sqrt{51106}e^{12}, \frac{1}{481}\sqrt{28078}e^{13},$ $\frac{1}{481}\sqrt{28078}e^{24} + \frac{2}{481}\sqrt{9797}e^{35}$	$(-\frac{84}{481}, \frac{93}{481}, -\frac{25}{481}, -\frac{8}{481}, \frac{110}{481}, \frac{30}{481}, \frac{9}{481}, -\frac{109}{481}, \frac{85}{481})$ $+ \frac{1}{481}\sqrt{35754}e^2 \otimes e_4 + \frac{2}{481}\sqrt{13837}e^5 \otimes e_7$	{123568, 12358, 1467, 147, 2678, 278, 345, 3456}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{221}e^{13}, \frac{1}{37}\sqrt{78}e^{24} + \frac{1}{37}\sqrt{78}e^{35}$	$(-\frac{13}{37}, \frac{9}{37}, \frac{9}{37}, \frac{1}{37}, \frac{1}{37}, \frac{4}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{10}{37})$ $+ \frac{1}{37}\sqrt{429}e^2 \otimes e_8 - \frac{1}{37}\sqrt{429}e^3 \otimes e_7$	{12345, 123456, 12369, 1239, 1456789, 145789, 1678, 178, 2467, 247, 25679, 2579}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{638}e^{12}, \frac{1}{32}\sqrt{66}e^{13}, \frac{1}{64}\sqrt{638}e^{24} + \frac{1}{32}\sqrt{66}e^{35}$	$(\frac{9}{32}, \frac{7}{128}, -\frac{5}{64}, -\frac{15}{128}, \frac{1}{64}, -\frac{37}{128}, \frac{43}{128}, \frac{13}{64}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1122}e^2 \otimes e_6 + \frac{3}{64}\sqrt{154}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{12}, \frac{1}{37}\sqrt{221}e^{13}, \frac{1}{37}\sqrt{78}e^{24} + \frac{1}{37}\sqrt{78}e^{35}$	$(-\frac{13}{37}, \frac{9}{37}, \frac{9}{37}, \frac{1}{37}, \frac{1}{37}, \frac{4}{37}, -\frac{4}{37}, -\frac{4}{37}, \frac{10}{37})$ $+ \frac{1}{37}\sqrt{429}e^2 \otimes e_8 + \frac{1}{37}\sqrt{429}e^3 \otimes e_7$	{12345, 123456, 12369, 1239, 1456789, 145789, 1678, 178, 2467, 247, 25679, 2579}
93:11	$0, 0, 0, 0, 0, 0, \frac{5}{289}\sqrt{906}e^{12}, \frac{8}{289}\sqrt{151}e^{13}, \frac{8}{289}\sqrt{151}e^{24} + \frac{1}{289}\sqrt{3322}e^{35}$	$(\frac{53}{289}, -\frac{76}{289}, \frac{10}{289}, \frac{128}{289}, \frac{42}{289}, -\frac{98}{289}, -\frac{23}{289}, \frac{63}{289}, \frac{52}{289})$ $+ \frac{1}{289}\sqrt{38958}e^1 \otimes e_6 + \frac{1}{289}\sqrt{38958}e^4 \otimes e_7$	{1234, 12458, 137, 1578, 2356789, 2679, 345689, 469}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{56170}e^{12}, \frac{1}{457}\sqrt{9430}e^{13},$ $\frac{1}{457}\sqrt{9430}e^{24} + \frac{20}{457}\sqrt{82}e^{35}$	$(\frac{126}{457}, -\frac{108}{457}, -\frac{51}{457}, \frac{29}{457}, -\frac{28}{457}, \frac{223}{457}, \frac{18}{457}, \frac{75}{457}, -\frac{79}{457})$ $+ \frac{3}{457}\sqrt{7790}e^6 \otimes e_7 + \frac{6}{457}\sqrt{2665}e^1 \otimes e_9$	{123456, 12468, 1357, 178, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{5}{377}\sqrt{665}e^{12}, \frac{5}{377}\sqrt{665}e^{13}, \frac{1}{377}\sqrt{5187}e^{24} + \frac{1}{377}\sqrt{5187}e^{35}$	$(\frac{37}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{121}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{12}{377}, \frac{72}{377})$ $+ \frac{1}{377}\sqrt{28595}e^4 \otimes e_7 - \frac{1}{377}\sqrt{28595}e^5 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^1 \otimes e_6$	{12345, 1248, 178, 236789, 25679, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{5}{377}\sqrt{665}e^{12}, \frac{5}{377}\sqrt{665}e^{13}, \frac{1}{377}\sqrt{5187}e^{24} + \frac{1}{377}\sqrt{5187}e^{35}$	$(\frac{37}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{121}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{12}{377}, \frac{72}{377})$ $+ \frac{1}{377}\sqrt{28595}e^4 \otimes e_7 + \frac{1}{377}\sqrt{28595}e^5 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^1 \otimes e_6$	{12345, 1248, 178, 236789, 25679, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{187}\sqrt{12805}e^{12}, \frac{1}{374}\sqrt{8274}e^{13},$ $\frac{1}{374}\sqrt{14578}e^{24} + \frac{1}{374}\sqrt{6895}e^{35}$	$(\frac{7}{44}, \frac{107}{374}, -\frac{1}{187}, -\frac{45}{187}, \frac{19}{374}, -\frac{25}{68}, \frac{333}{748}, \frac{115}{748}, \frac{1}{22})$ $+ \frac{1}{187}\sqrt{17139}e^1 \otimes e_6 + \frac{1}{374}\sqrt{64419}e^2 \otimes e_4$	{1235, 128, 13457, 1478, 235678, 267, 34568, 46}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{289}\sqrt{151}e^{12}, \frac{1}{289}\sqrt{3322}e^{13}, \frac{5}{289}\sqrt{906}e^{24} + \frac{8}{289}\sqrt{151}e^{35}$	$(\frac{10}{289}, -\frac{76}{289}, \frac{10}{289}, \frac{5}{17}, -\frac{1}{289}, \frac{160}{289}, -\frac{66}{289}, \frac{20}{289}, \frac{9}{289})$ $+ \frac{1}{289}\sqrt{38958}e^4 \otimes e_7 + \frac{1}{289}\sqrt{38958}e^6 \otimes e_9$	{1234568, 1246, 135678, 167, 2379, 25789, 349, 4589}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{70}e^{12}, \frac{1}{56}\sqrt{210}e^{13}, \frac{1}{28}\sqrt{14}e^{24} + \frac{1}{56}\sqrt{322}e^{35}$	$(\frac{5}{28}, \frac{5}{56}, -\frac{1}{4}, -\frac{9}{56}, \frac{5}{28}, \frac{5}{56}, \frac{15}{56}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{21}e^2 \otimes e_4 - \frac{1}{56}\sqrt{462}e^5 \otimes e_8 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{70}e^{12}, \frac{1}{56}\sqrt{210}e^{13}, \frac{1}{28}\sqrt{14}e^{24} + \frac{1}{56}\sqrt{322}e^{35}$	$(\frac{5}{28}, \frac{5}{56}, -\frac{1}{4}, -\frac{9}{56}, \frac{5}{28}, \frac{5}{56}, \frac{15}{56}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{21}e^2 \otimes e_4 + \frac{1}{56}\sqrt{462}e^5 \otimes e_8 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{70}e^{24} + \frac{2}{67}\sqrt{70}e^{35}$	$(\frac{13}{67}, \frac{3}{67}, -\frac{14}{67}, -\frac{4}{67}, \frac{13}{67}, -\frac{11}{67}, \frac{16}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^2 \otimes e_6 - \frac{2}{67}\sqrt{119}e^5 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{70}e^{24} + \frac{2}{67}\sqrt{70}e^{35}$	$(\frac{13}{67}, \frac{3}{67}, -\frac{14}{67}, -\frac{4}{67}, \frac{13}{67}, -\frac{11}{67}, \frac{16}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^2 \otimes e_6 + \frac{2}{67}\sqrt{119}e^5 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{662302}e^{12}, \frac{1}{1475}\sqrt{40774}e^{13},$ $\frac{1}{1475}\sqrt{320682}e^{24} + \frac{1}{1475}\sqrt{450718}e^{35}$	$(-\frac{427}{1475}, \frac{403}{1475}, \frac{527}{1475}, -\frac{148}{1475}, -\frac{272}{1475}, \frac{137}{1475}, -\frac{24}{1475}, \frac{4}{59}, \frac{51}{295})$ $+ \frac{24}{1475}\sqrt{1102}e^2 \otimes e_4 + \frac{2}{1475}\sqrt{209931}e^3 \otimes e_7$	{123568, 12358, 1467, 147, 2678, 278, 345, 3456}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{101}\sqrt{2346}e^{12}, \frac{4}{101}\sqrt{102}e^{13}, \frac{4}{101}\sqrt{102}e^{24} + \frac{1}{101}\sqrt{714}e^{35}$	$(-\frac{28}{101}, \frac{25}{101}, \frac{2}{101}, -\frac{5}{101}, \frac{18}{101}, \frac{48}{101}, -\frac{3}{101}, -\frac{26}{101}, \frac{20}{101})$ $+ \frac{1}{101}\sqrt{3774}e^6 \otimes e_7 + \frac{1}{101}\sqrt{5406}e^2 \otimes e_8$	{12346, 123569, 14789, 1578, 2457, 279, 345689, 368}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{1543}\sqrt{4953}e^{12}, \frac{8}{1543}\sqrt{715}e^{13},$ $\frac{24}{1543}\sqrt{130}e^{24} + \frac{8}{1543}\sqrt{5187}e^{35}$	$(-\frac{307}{1543}, \frac{219}{1543}, \frac{110}{1543}, \frac{219}{1543}, \frac{328}{1543}, -\frac{306}{1543}, -\frac{88}{1543}, -\frac{197}{1543}, \frac{438}{1543})$ $+ \frac{104}{1543}\sqrt{46}e^5 \otimes e_7 + \frac{8}{1543}\sqrt{4953}e^2 \otimes e_8 + \frac{8}{1543}\sqrt{5655}e^3 \otimes e_6$	{1235, 14678, 267, 3458}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{11305}e^{12}, \frac{4}{377}\sqrt{1463}e^{13},$ $\frac{3}{377}\sqrt{1330}e^{24} + \frac{1}{377}\sqrt{33782}e^{35}$	$(-\frac{49}{377}, \frac{37}{377}, -\frac{6}{377}, \frac{6}{29}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{55}{377}, \frac{115}{377})$ $+ \frac{1}{377}\sqrt{34314}e^2 \otimes e_6 + \frac{1}{377}\sqrt{57190}e^5 \otimes e_7$	{12358, 12459, 136789, 1467, 23479, 278, 3456, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{979}\sqrt{20418}e^{12}, \frac{2}{979}\sqrt{20418}e^{13},$ $\frac{4}{979}\sqrt{8881}e^{24} + \frac{6}{979}\sqrt{166}e^{35}$	$(-\frac{159}{979}, \frac{146}{979}, -\frac{27}{979}, \frac{146}{979}, \frac{29}{979}, -\frac{186}{979}, -\frac{13}{979}, -\frac{186}{979}, \frac{292}{979})$ $+ \frac{12}{979}\sqrt{1826}e^2 \otimes e_8 + \frac{2}{979}\sqrt{37018}e^5 \otimes e_7 + \frac{2}{979}\sqrt{45318}e^4 \otimes e_6$	{123569, 14789, 2679, 34589}
93:11	$0, 0, 0, 0, 0, 0, \frac{3}{31}\sqrt{38}e^{12}, \frac{1}{31}\sqrt{190}e^{13}, \frac{1}{31}\sqrt{190}e^{24} + \frac{3}{31}\sqrt{38}e^{35}$	$(-\frac{1}{31}, \frac{13}{31}, -\frac{1}{31}, -\frac{6}{31}, \frac{8}{31}, -\frac{11}{31}, \frac{12}{31}, -\frac{2}{31}, \frac{7}{31})$ $+ \frac{2}{31}\sqrt{133}e^2 \otimes e_4 + \frac{2}{31}\sqrt{133}e^5 \otimes e_6$	{12358, 126, 134578, 1467, 2357, 2678, 345, 468}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{4}{157}\sqrt{890}e^{13}, \frac{2}{157}\sqrt{267}e^{24} + \frac{2}{157}\sqrt{267}e^{35}$	$(\frac{77}{157}, -\frac{9}{157}, -\frac{9}{157}, \frac{31}{157}, \frac{31}{157}, -\frac{101}{157}, \frac{68}{157}, \frac{68}{157}, \frac{22}{157})$ $+ \frac{2}{157}\sqrt{11481}e^1 \otimes e_6$	{123, 123459, 12489, 1258, 14578, 1789, 23456789, 23678, 24679, 2567, 456, 69}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{4}{157}\sqrt{890}e^{24} + \frac{2}{157}\sqrt{267}e^{35}$	$(-\frac{9}{157}, -\frac{52}{157}, \frac{34}{157}, \frac{117}{157}, \frac{31}{157}, \frac{28}{157}, -\frac{61}{157}, \frac{25}{157}, \frac{65}{157})$ $+ \frac{2}{157}\sqrt{11481}e^4 \otimes e_7$	{123468, 12348, 1245, 12456, 13678, 1378, 1567, 157, 235679, 23579, 26789, 2789, 34569, 3459, 4689, 489}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{22}e^{12}, \frac{1}{13}\sqrt{10}e^{13}, \frac{1}{13}\sqrt{13}e^{24} + \frac{2}{13}\sqrt{5}e^{35}$	$(-\frac{9}{52}, \frac{9}{52}, \frac{1}{26}, \frac{1}{52}, \frac{2}{13}, -\frac{3}{26}, 0, -\frac{7}{52}, \frac{5}{26})$ $+ \frac{1}{13}\sqrt{15}e^2 \otimes e_4 + \frac{3}{13}e^3 \otimes e_6 + \frac{5}{13}e^5 \otimes e_7$	{12358, 1467, 2678, 345}
93:11	$0, 0, 0, 0, 0, 0, \frac{9}{223}\sqrt{202}e^{12}, \frac{2}{223}\sqrt{505}e^{13}, \frac{2}{223}\sqrt{505}e^{24} + \frac{6}{223}\sqrt{303}e^{35}$	$(-\frac{47}{223}, \frac{34}{223}, -\frac{20}{223}, \frac{34}{223}, \frac{88}{223}, \frac{24}{223}, -\frac{13}{223}, -\frac{67}{223}, \frac{68}{223})$ $+ \frac{2}{223}\sqrt{5959}e^5 \otimes e_7 + \frac{9}{223}\sqrt{202}e^2 \otimes e_8$	{124569, 12459, 136789, 13789, 234679, 23479, 5689, 589}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{470}e^{12}, \frac{1}{38}\sqrt{517}e^{13}, \frac{2}{19}\sqrt{94}e^{24} + \frac{1}{38}\sqrt{470}e^{35}$	$(\frac{3}{19}, -\frac{9}{76}, \frac{3}{19}, \frac{11}{19}, \frac{23}{76}, -\frac{25}{38}, \frac{3}{76}, \frac{6}{19}, \frac{35}{76})$ $+ \frac{3}{38}\sqrt{329}e^4 \otimes e_6$	{12347, 1235679, 124578, 126789, 13459, 136, 1489, 1568, 2348, 235689, 245, 269, 345789, 3678, 479, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{15322}e^{12}, \frac{1}{247}\sqrt{4890}e^{13},$ $\frac{1}{247}\sqrt{7498}e^{24} + \frac{10}{247}\sqrt{163}e^{35}$	$(-\frac{34}{247}, \frac{109}{247}, -\frac{37}{247}, -\frac{54}{247}, \frac{92}{247}, \frac{28}{247}, \frac{75}{247}, -\frac{71}{247}, \frac{55}{247})$ $+\frac{1}{247}\sqrt{34230}e^2 \otimes e_4 + \frac{2}{247}\sqrt{9291}e^5 \otimes e_8$	{1235, 12356, 1268, 128, 134567, 13457, 14678, 1478}
93:11	$0, 0, 0, 0, 0, 0, \frac{3}{377}\sqrt{1330}e^{12}, \frac{2}{377}\sqrt{11305}e^{13},$ $\frac{1}{377}\sqrt{33782}e^{24} + \frac{4}{377}\sqrt{1463}e^{35}$	$(\frac{37}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{121}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{12}{377}, \frac{72}{377})$ $+\frac{1}{377}\sqrt{34314}e^1 \otimes e_6 + \frac{1}{377}\sqrt{57190}e^4 \otimes e_8$	{12347, 12789, 13459, 158, 235689, 2456, 3678, 4679}
93:11	$0, 0, 0, 0, 0, 0, \frac{7}{1529}\sqrt{4910}e^{12}, \frac{10}{1529}\sqrt{4910}e^{13},$ $\frac{14}{1529}\sqrt{1473}e^{24} + \frac{12}{1529}\sqrt{1473}e^{35}$	$(\frac{19}{1529}, \frac{372}{1529}, -\frac{138}{1529}, -\frac{148}{1529}, \frac{362}{1529}, -\frac{472}{1529}, \frac{391}{1529}, -\frac{119}{1529}, \frac{224}{1529})$ $+\frac{2}{1529}\sqrt{151719}e^1 \otimes e_6 + \frac{3}{1529}\sqrt{83470}e^2 \otimes e_8$	{1234, 12359, 14789, 1578, 24567, 2679, 345689, 368}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{779}\sqrt{21586}e^{12}, \frac{3}{779}\sqrt{7530}e^{13},$ $\frac{1}{779}\sqrt{27610}e^{24} + \frac{4}{779}\sqrt{5773}e^{35}$	$(-\frac{116}{779}, \frac{221}{779}, \frac{28}{779}, -\frac{30}{779}, \frac{163}{779}, -\frac{223}{779}, \frac{105}{779}, -\frac{88}{779}, \frac{191}{779})$ $+\frac{1}{779}\sqrt{143070}e^3 \otimes e_6 + \frac{1}{779}\sqrt{143070}e^5 \otimes e_8 + \frac{7}{779}\sqrt{1506}e^2 \otimes e_4$	{1235, 1268, 13457, 14678}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{235}\sqrt{1833}e^{12}, \frac{4}{235}\sqrt{39}e^{13}, \frac{2}{235}\sqrt{1833}e^{24} + \frac{4}{235}\sqrt{39}e^{35}$	$(-\frac{31}{235}, \frac{12}{235}, \frac{12}{235}, \frac{59}{235}, \frac{59}{235}, -\frac{66}{235}, -\frac{19}{235}, -\frac{19}{235}, \frac{71}{235})$ $+\frac{2}{235}\sqrt{1677}e^5 \otimes e_8 + \frac{2}{235}\sqrt{3354}e^2 \otimes e_6 + \frac{2}{235}\sqrt{3354}e^4 \otimes e_7$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{235}\sqrt{1833}e^{12}, \frac{4}{235}\sqrt{39}e^{13}, \frac{2}{235}\sqrt{1833}e^{24} + \frac{4}{235}\sqrt{39}e^{35}$	$(-\frac{31}{235}, \frac{12}{235}, \frac{12}{235}, \frac{59}{235}, \frac{59}{235}, -\frac{66}{235}, -\frac{19}{235}, -\frac{19}{235}, \frac{71}{235})$ $-\frac{2}{235}\sqrt{1677}e^5 \otimes e_8 + \frac{2}{235}\sqrt{3354}e^2 \otimes e_6 + \frac{2}{235}\sqrt{3354}e^4 \otimes e_7$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{3}{307}\sqrt{935}e^{24} + \frac{3}{307}\sqrt{935}e^{35}$	$(-\frac{16}{307}, \frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{132}{307}, \frac{50}{307}, \frac{50}{307}, -\frac{21}{307})$ $+\frac{12}{307}\sqrt{221}e^6 \otimes e_9 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4 + \frac{15}{307}\sqrt{119}e^3 \otimes e_5$	{1239, 12589, 145789, 23789, 2579, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{6}{307}\sqrt{187}e^{13}, \frac{3}{307}\sqrt{935}e^{24} + \frac{3}{307}\sqrt{935}e^{35}$	$(-\frac{16}{307}, \frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{132}{307}, \frac{50}{307}, \frac{50}{307}, -\frac{21}{307})$ $+\frac{12}{307}\sqrt{221}e^6 \otimes e_9 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4 - \frac{15}{307}\sqrt{119}e^3 \otimes e_5$	{1239, 12589, 145789, 23789, 2579, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{57}\sqrt{230}e^{12}, \frac{2}{57}\sqrt{23}e^{13}, \frac{2}{57}\sqrt{23}e^{24} + \frac{1}{57}\sqrt{598}e^{35}$	$(-\frac{2}{57}, \frac{4}{57}, \frac{10}{57}, -\frac{11}{57}, \frac{11}{57}, \frac{8}{57}, \frac{10}{57}, -\frac{4}{57}, \frac{1}{57})$ $+\frac{1}{57}\sqrt{874}e^5 \otimes e_8 + \frac{1}{57}\sqrt{874}e^6 \otimes e_9 + \frac{2}{57}\sqrt{161}e^2 \otimes e_4$	{23789, 2579, 3489, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{157}\sqrt{267}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{4}{157}\sqrt{890}e^{24} + \frac{4}{157}\sqrt{890}e^{35}$	$(\frac{34}{157}, -\frac{9}{157}, -\frac{9}{157}, -\frac{12}{157}, -\frac{12}{157}, 1, \frac{25}{157}, \frac{25}{157}, -\frac{21}{157})$ $+\frac{2}{157}\sqrt{11481}e^6 \otimes e_9$	{12345678, 123789, 12467, 12579, 1459, 16, 23456, 239, 2468, 2589, 45789, 678}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{2833}\sqrt{13262}e^{12}, \frac{2}{2833}\sqrt{110633}e^{13},$ $\frac{4}{2833}\sqrt{14658}e^{24} + \frac{2}{2833}\sqrt{246045}e^{35}$	$(-\frac{685}{2833}, \frac{369}{2833}, \frac{382}{2833}, \frac{408}{2833}, \frac{395}{2833}, -\frac{329}{2833}, -\frac{316}{2833}, -\frac{303}{2833}, \frac{777}{2833})$ $+\frac{2}{2833}\sqrt{198581}e^2 \otimes e_6 + \frac{4}{2833}\sqrt{101559}e^3 \otimes e_7 + \frac{4}{2833}\sqrt{75035}e^5 \otimes e_8$	{1235, 14678, 24579, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{56}\sqrt{210}e^{12}, \frac{1}{28}\sqrt{70}e^{13}, \frac{1}{56}\sqrt{322}e^{24} + \frac{1}{28}\sqrt{14}e^{35}$	$(\frac{5}{28}, -\frac{1}{4}, -\frac{1}{8}, \frac{5}{28}, \frac{3}{56}, \frac{17}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14})$ $+\frac{1}{14}\sqrt{21}e^6 \otimes e_8 - \frac{1}{56}\sqrt{462}e^4 \otimes e_7 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{123456, 1248, 13567, 178, 23789, 25679, 3489, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{56}\sqrt{210}e^{12}, \frac{1}{28}\sqrt{70}e^{13}, \frac{1}{56}\sqrt{322}e^{24} + \frac{1}{28}\sqrt{14}e^{35}$	$(\frac{5}{28}, -\frac{1}{4}, -\frac{1}{8}, \frac{5}{28}, \frac{3}{56}, \frac{17}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14})$ $+\frac{1}{14}\sqrt{21}e^6 \otimes e_8 + \frac{1}{56}\sqrt{462}e^4 \otimes e_7 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{123456, 1248, 13567, 178, 23789, 25679, 3489, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{10}{3589}\sqrt{5797}e^{12}, \frac{2}{3589}\sqrt{37355}e^{13},$ $\frac{4}{3589}\sqrt{7905}e^{24} + \frac{8}{3589}\sqrt{11470}e^{35}$	$(\frac{331}{3589}, -\frac{457}{3589}, \frac{184}{3589}, \frac{478}{3589}, -\frac{163}{3589}, -\frac{473}{3589}, -\frac{126}{3589}, \frac{515}{3589}, \frac{21}{3589})$ $+\frac{10}{3589}\sqrt{8277}e^3 \otimes e_7 + \frac{6}{3589}\sqrt{12865}e^5 \otimes e_6 + \frac{6}{3589}\sqrt{21235}e^1 \otimes e_9$	{1235, 14678, 24579, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{55}\sqrt{21}e^{12}, \frac{16}{55}\sqrt{3}e^{13}, \frac{16}{55}\sqrt{2}e^{24} + \frac{8}{55}\sqrt{21}e^{35}$	$(-\frac{3}{55}, -\frac{7}{55}, -\frac{3}{55}, \frac{26}{55}, \frac{2}{55}, -\frac{6}{55}, -\frac{2}{11}, -\frac{6}{55}, \frac{19}{55})$ $+\frac{16}{55}\sqrt{3}e^4 \otimes e_6 + \frac{8}{55}\sqrt{37}e^5 \otimes e_7$	{123568, 12459, 136789, 147, 23479, 2678, 345, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{1}{38}\sqrt{470}e^{24} + \frac{1}{38}\sqrt{517}e^{35}$	$(-\frac{9}{76}, \frac{27}{38}, \frac{3}{19}, -\frac{10}{19}, \frac{13}{38}, \frac{45}{76}, \frac{3}{76}, \frac{7}{38})$ $+\frac{3}{38}\sqrt{329}e^2 \otimes e_4$	{12, 123568, 12358, 126, 1345678, 134578, 1467, 147, 23567, 2357, 2678, 278, 345, 3456, 468, 48}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{851}\sqrt{2130}e^{12}, \frac{20}{851}\sqrt{142}e^{13},$ $\frac{20}{851}\sqrt{142}e^{24} + \frac{4}{851}\sqrt{710}e^{35}$	$(\frac{109}{851}, \frac{89}{851}, -\frac{162}{851}, -\frac{122}{851}, \frac{129}{851}, -\frac{13}{851}, \frac{198}{851}, -\frac{53}{851}, -\frac{33}{851})$ $+\frac{2}{851}\sqrt{23501}e^2 \otimes e_8 + \frac{2}{851}\sqrt{6461}e^5 \otimes e_6 + \frac{2}{851}\sqrt{2769}e^1 \otimes e_9$	{12345, 1678, 2579, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{142}\sqrt{4070}e^{12}, \frac{1}{71}\sqrt{165}e^{13}, \frac{1}{142}\sqrt{4070}e^{24} + \frac{1}{71}\sqrt{165}e^{35}$	$(-\frac{9}{71}, \frac{7}{284}, \frac{25}{142}, \frac{81}{284}, \frac{19}{142}, -\frac{103}{284}, -\frac{29}{284}, \frac{7}{142}, \frac{22}{71})$ $+ \frac{1}{142}\sqrt{7095}e^2 \otimes e_6 + \frac{1}{142}\sqrt{7095}e^4 \otimes e_7$	{12348, 1245, 13678, 1567, 23579, 2789, 34569, 4689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{382}\sqrt{34282}e^{12}, \frac{3}{764}\sqrt{2810}e^{13}, \frac{1}{382}\sqrt{14893}e^{24} + \frac{3}{382}\sqrt{18265}e^{35}$	$(-\frac{143}{764}, \frac{361}{1528}, -\frac{29}{764}, -\frac{201}{1528}, \frac{109}{764}, \frac{637}{1528}, \frac{75}{1528}, -\frac{43}{191}, \frac{20}{191})$ $+ \frac{1}{764}\sqrt{102846}e^5 \otimes e_8 + \frac{5}{764}\sqrt{5901}e^2 \otimes e_4 + \frac{5}{764}\sqrt{5901}e^6 \otimes e_7$	{2357, 278, 3456, 468}
93:11	$0, 0, 0, 0, 0, 0, \frac{56}{557}\sqrt{2}e^{12}, \frac{4}{557}\sqrt{2730}e^{13}, \frac{4}{557}\sqrt{2730}e^{24} + \frac{56}{557}\sqrt{3}e^{35}$	$(\frac{97}{557}, -\frac{119}{557}, -\frac{105}{557}, \frac{104}{557}, \frac{90}{557}, \frac{90}{557}, -\frac{22}{557}, -\frac{8}{557}, -\frac{15}{557})$ $+ \frac{48}{557}\sqrt{21}e^1 \otimes e_9 + \frac{4}{557}\sqrt{3514}e^4 \otimes e_8 + \frac{56}{557}\sqrt{3}e^6 \otimes e_7$	{12347, 1568, 235689, 479}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{56}\sqrt{322}e^{13}, \frac{1}{28}\sqrt{70}e^{24} + \frac{1}{56}\sqrt{210}e^{35}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{14}\sqrt{21}e^4 \otimes e_6 + \frac{1}{56}\sqrt{462}e^5 \otimes e_8 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 236789, 25679, 3489, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{56}\sqrt{322}e^{13}, \frac{1}{28}\sqrt{70}e^{24} + \frac{1}{56}\sqrt{210}e^{35}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{14}\sqrt{21}e^4 \otimes e_6 - \frac{1}{56}\sqrt{462}e^5 \otimes e_8 + \frac{3}{56}\sqrt{70}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 236789, 25679, 3489, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{10}{473}\sqrt{213}e^{12}, \frac{4}{473}\sqrt{1207}e^{13}, \frac{10}{473}\sqrt{355}e^{24} + \frac{8}{473}\sqrt{142}e^{35}$	$(-\frac{101}{473}, \frac{47}{473}, \frac{6}{473}, \frac{8}{43}, \frac{3}{11}, -\frac{13}{473}, -\frac{54}{473}, -\frac{95}{473}, \frac{135}{473})$ $+ \frac{2}{473}\sqrt{14555}e^2 \otimes e_8 + \frac{2}{473}\sqrt{3905}e^5 \otimes e_6 + \frac{4}{473}\sqrt{1349}e^4 \otimes e_7$	{12346, 1578, 2679, 34589}
93:11	$0, 0, 0, 0, 0, 0, \frac{3}{674}\sqrt{8970}e^{12}, \frac{15}{337}\sqrt{23}e^{13}, \frac{3}{674}\sqrt{4117}e^{24} + \frac{24}{337}\sqrt{23}e^{35}$	$(-\frac{381}{1348}, \frac{75}{337}, \frac{333}{1348}, -\frac{57}{674}, -\frac{147}{1348}, \frac{183}{674}, -\frac{81}{1348}, -\frac{12}{337}, \frac{93}{674})$ $+ \frac{3}{337}\sqrt{3335}e^3 \otimes e_7 + \frac{3}{674}\sqrt{5911}e^6 \otimes e_8 + \frac{3}{674}\sqrt{9246}e^2 \otimes e_4$	{12356, 1478, 267, 3458}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{24} + \frac{2}{631}\sqrt{858}e^{35}$	$(-\frac{74}{631}, \frac{163}{631}, -\frac{49}{631}, -\frac{136}{631}, \frac{76}{631}, \frac{313}{631}, \frac{89}{631}, -\frac{123}{631}, \frac{27}{631})$ $+ \frac{18}{631}\sqrt{429}e^6 \otimes e_9 + \frac{2}{631}\sqrt{45474}e^2 \otimes e_8$	{12346, 12359, 14789, 15678, 24567, 279, 34589, 368}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{15322}e^{12}, \frac{1}{247}\sqrt{4890}e^{13}, \frac{1}{247}\sqrt{7498}e^{24} + \frac{10}{247}\sqrt{163}e^{35}$	$(-\frac{34}{247}, \frac{109}{247}, \frac{77}{247}, -\frac{54}{247}, -\frac{22}{247}, -\frac{86}{247}, \frac{75}{247}, \frac{43}{247}, \frac{55}{247})$ $+ \frac{1}{247}\sqrt{34230}e^2 \otimes e_4 + \frac{2}{247}\sqrt{9291}e^3 \otimes e_6$	{1235, 1268, 13457, 14678, 23578, 267, 3458, 46}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{3291}\sqrt{29465}e^{12}, \frac{4}{3291}\sqrt{35358}e^{13}, \frac{20}{3291}\sqrt{3403}e^{24} + \frac{4}{3291}\sqrt{11537}e^{35}$	$(-\frac{174}{1097}, \frac{38}{1097}, -\frac{28}{3291}, \frac{256}{3291}, \frac{398}{3291}, \frac{1034}{3291}, -\frac{136}{1097}, -\frac{550}{3291}, \frac{370}{3291})$ $+ \frac{20}{3291}\sqrt{2573}e^6 \otimes e_9 + \frac{4}{3291}\sqrt{102505}e^2 \otimes e_8 + \frac{4}{3291}\sqrt{84826}e^4 \otimes e_7$	{12346, 15678, 279, 34589}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{521}\sqrt{13938}e^{12}, \frac{1}{521}\sqrt{15042}e^{13}, \frac{1}{521}\sqrt{15042}e^{24} + \frac{4}{521}\sqrt{69}e^{35}$	$(\frac{32}{521}, \frac{28}{521}, -\frac{73}{521}, -\frac{65}{521}, \frac{36}{521}, \frac{129}{521}, \frac{60}{521}, -\frac{41}{521}, -\frac{37}{521})$ $+ \frac{1}{521}\sqrt{11730}e^6 \otimes e_7 + \frac{2}{521}\sqrt{6693}e^2 \otimes e_8 + \frac{6}{521}\sqrt{759}e^1 \otimes e_9$	{123456, 178, 2579, 34689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{7930}e^{12}, \frac{1}{137}\sqrt{2990}e^{13}, \frac{1}{137}\sqrt{2990}e^{24} + \frac{1}{137}\sqrt{2470}e^{35}$	$(-\frac{27}{137}, \frac{36}{137}, \frac{15}{137}, -\frac{29}{137}, -\frac{8}{137}, \frac{74}{137}, \frac{9}{137}, -\frac{12}{137}, \frac{7}{137})$ $+ \frac{3}{137}\sqrt{910}e^2 \otimes e_4 + \frac{3}{137}\sqrt{910}e^6 \otimes e_7$	{123568, 126, 134578, 147, 2357, 278, 3456, 468}
93:11	$0, 0, 0, 0, 0, 0, \frac{9}{295}\sqrt{58}e^{12}, \frac{2}{295}\sqrt{377}e^{13}, \frac{2}{295}\sqrt{377}e^{24} + \frac{6}{295}\sqrt{87}e^{35}$	$(\frac{5}{59}, -\frac{2}{295}, -\frac{56}{295}, -\frac{2}{295}, \frac{52}{295}, \frac{24}{295}, \frac{23}{295}, -\frac{31}{295}, -\frac{4}{295})$ $+ \frac{2}{295}\sqrt{1189}e^5 \otimes e_7 + \frac{6}{295}\sqrt{174}e^1 \otimes e_9 + \frac{9}{295}\sqrt{58}e^2 \otimes e_8$	{12345, 123456, 1678, 178}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{253}e^{12}, \frac{2}{55}\sqrt{253}e^{13}, \frac{2}{55}\sqrt{253}e^{24} + \frac{2}{55}\sqrt{253}e^{35}$	$(\frac{3}{5}, -\frac{12}{55}, -\frac{12}{55}, -\frac{1}{55}, -\frac{1}{55}, \frac{2}{11}, \frac{21}{55}, \frac{21}{55}, -\frac{13}{55})$ $+ \frac{6}{55}\sqrt{115}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 1678, 178, 236789, 23789, 25679, 2579, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{189}\sqrt{546}e^{12}, \frac{2}{189}\sqrt{455}e^{13}, \frac{1}{189}\sqrt{1222}e^{24} + \frac{2}{189}\sqrt{546}e^{35}$	$(-\frac{4}{63}, -\frac{5}{189}, \frac{1}{21}, \frac{37}{189}, \frac{23}{189}, -\frac{38}{189}, -\frac{17}{189}, -\frac{1}{63}, \frac{32}{189})$ $+ \frac{1}{189}\sqrt{2678}e^1 \otimes e_6 + \frac{1}{189}\sqrt{2678}e^5 \otimes e_8 + \frac{1}{189}\sqrt{3770}e^3 \otimes e_7$	{1235, 1478, 245679, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{9430}e^{12}, \frac{20}{457}\sqrt{82}e^{13}, \frac{1}{457}\sqrt{56170}e^{24} + \frac{1}{457}\sqrt{9430}e^{35}$	$(\frac{183}{457}, -\frac{108}{457}, -\frac{51}{457}, \frac{86}{457}, \frac{29}{457}, -\frac{119}{457}, \frac{75}{457}, \frac{132}{457}, -\frac{22}{457})$ $+ \frac{3}{457}\sqrt{7790}e^4 \otimes e_6 + \frac{6}{457}\sqrt{2665}e^1 \otimes e_9$	{12345, 1248, 13567, 1678, 236789, 25679, 3489, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{5187}e^{12}, \frac{1}{377}\sqrt{5187}e^{13}, \frac{5}{377}\sqrt{665}e^{24} + \frac{5}{377}\sqrt{665}e^{35}$	$(-\frac{6}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{6}{29}, \frac{6}{29}, \frac{162}{377}, -\frac{55}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{28595}e^4 \otimes e_7 - \frac{1}{377}\sqrt{28595}e^5 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^6 \otimes e_9$	{123456, 12468, 1678, 23789, 2579, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{5187}e^{12}, \frac{1}{377}\sqrt{5187}e^{13}, \frac{5}{377}\sqrt{665}e^{24} + \frac{5}{377}\sqrt{665}e^{35}$	$(-\frac{6}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{6}{29}, \frac{6}{29}, \frac{162}{377}, -\frac{55}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{28595}e^4 \otimes e_7 + \frac{1}{377}\sqrt{28595}e^5 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^6 \otimes e_9$	{123456, 12468, 1678, 23789, 2579, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{499}\sqrt{12586}e^{12}, \frac{2}{499}\sqrt{1102}e^{13}, \frac{2}{499}\sqrt{1102}e^{24} + \frac{4}{499}\sqrt{638}e^{35}$	$(\frac{24}{499}, \frac{12}{499}, -\frac{70}{499}, -\frac{17}{499}, \frac{65}{499}, \frac{30}{499}, \frac{36}{499}, -\frac{46}{499}, -\frac{5}{499})$ $+ \frac{1}{499}\sqrt{12238}e^5 \otimes e_7 + \frac{1}{499}\sqrt{7134}e^2 \otimes e_4 + \frac{3}{499}\sqrt{870}e^1 \otimes e_9$	{123568, 12358, 1467, 147}
93:11	$0, 0, 0, 0, 0, 0, \frac{8}{3097}\sqrt{16471}e^{12}, \frac{8}{3097}\sqrt{5973}e^{13}, \frac{2}{3097}\sqrt{134483}e^{24} + \frac{2}{3097}\sqrt{169778}e^{35}$	$(-\frac{118}{3097}, \frac{19}{163}, -\frac{245}{3097}, -\frac{1}{3097}, \frac{605}{3097}, -\frac{480}{3097}, \frac{243}{3097}, -\frac{363}{3097}, \frac{360}{3097})$ $+ \frac{2}{3097}\sqrt{116745}e^1 \otimes e_6 + \frac{2}{3097}\sqrt{249418}e^5 \otimes e_7 + \frac{6}{3097}\sqrt{18281}e^2 \otimes e_4$	{12358, 147, 2678, 3456}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{285}e^{12}, \frac{2}{347}\sqrt{1577}e^{13}, \frac{2}{347}\sqrt{285}e^{24} + \frac{2}{347}\sqrt{1577}e^{35}$	$(\frac{45}{347}, -\frac{4}{347}, -\frac{38}{347}, \frac{11}{347}, \frac{45}{347}, -\frac{76}{347}, \frac{41}{347}, \frac{7}{347}, \frac{7}{347})$ $+ \frac{2}{347}\sqrt{1938}e^3 \otimes e_6 + \frac{2}{347}\sqrt{1938}e^5 \otimes e_8 + \frac{6}{347}\sqrt{247}e^1 \otimes e_9$	{12345, 12468, 1357, 1678, 23789, 25679, 3489, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{285}e^{12}, \frac{2}{347}\sqrt{1577}e^{13}, \frac{2}{347}\sqrt{285}e^{24} + \frac{2}{347}\sqrt{1577}e^{35}$	$(\frac{45}{347}, -\frac{4}{347}, -\frac{38}{347}, \frac{11}{347}, \frac{45}{347}, -\frac{76}{347}, \frac{41}{347}, \frac{7}{347}, \frac{7}{347})$ $+ \frac{2}{347}\sqrt{1938}e^3 \otimes e_6 - \frac{2}{347}\sqrt{1938}e^5 \otimes e_8 + \frac{6}{347}\sqrt{247}e^1 \otimes e_9$	{12345, 12468, 1357, 1678, 23789, 25679, 3489, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{22}e^{12}, \frac{1}{13}\sqrt{13}e^{13}, \frac{1}{13}\sqrt{10}e^{24} + \frac{2}{13}\sqrt{5}e^{35}$	$(-\frac{3}{26}, \frac{3}{26}, -\frac{1}{13}, -\frac{1}{26}, \frac{2}{13}, \frac{3}{13}, 0, -\frac{5}{26}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{15}e^2 \otimes e_4 + \frac{3}{13}e^6 \otimes e_9 + \frac{5}{13}e^5 \otimes e_7$	{123568, 1467, 2678, 3456}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{406}\sqrt{39010}e^{12}, \frac{1}{203}\sqrt{5810}e^{13}, \frac{3}{406}\sqrt{2407}e^{24} + \frac{1}{203}\sqrt{7553}e^{35}$	$(-\frac{139}{812}, \frac{40}{203}, -\frac{33}{812}, -\frac{3}{406}, \frac{187}{812}, -\frac{3}{406}, \frac{3}{116}, -\frac{43}{203}, \frac{11}{58})$ $+ \frac{1}{406}\sqrt{26394}e^2 \otimes e_4 + \frac{1}{406}\sqrt{4731}e^6 \otimes e_8 + \frac{5}{203}\sqrt{415}e^5 \otimes e_7$	{123568, 147, 2678, 345}
93:11	$0, 0, 0, 0, 0, 0, \frac{56}{2911}\sqrt{430}e^{12}, \frac{28}{2911}\sqrt{166}e^{13}, \frac{28}{2911}\sqrt{510}e^{24} + \frac{28}{2911}\sqrt{1618}e^{35}$	$(-\frac{542}{2911}, \frac{452}{2911}, \frac{694}{2911}, -\frac{332}{2911}, -\frac{14}{2911}, \frac{904}{2911}, -\frac{90}{2911}, \frac{152}{2911}, \frac{120}{2911})$ $+ \frac{28}{2911}\sqrt{1338}e^6 \otimes e_9 + \frac{28}{2911}\sqrt{2370}e^3 \otimes e_7 + \frac{56}{2911}\sqrt{411}e^2 \otimes e_4$	{123568, 1467, 2678, 3456}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{12}, \frac{2}{157}\sqrt{267}e^{13}, \frac{4}{157}\sqrt{890}e^{24} + \frac{2}{157}\sqrt{267}e^{35}$	$(-\frac{9}{157}, \frac{77}{157}, \frac{34}{157}, -\frac{12}{157}, \frac{31}{157}, -\frac{101}{157}, \frac{68}{157}, \frac{25}{157}, \frac{65}{157})$ $+ \frac{2}{157}\sqrt{11481}e^2 \otimes e_6$	{12348, 123589, 1245, 129, 13456789, 13678, 14679, 1567, 2347, 23579, 24578, 2789, 34569, 36, 4689, 568}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{907}\sqrt{11309}e^{12}, \frac{6}{907}\sqrt{43}e^{13}, \frac{2}{907}\sqrt{3311}e^{24} + \frac{2}{907}\sqrt{14233}e^{35}$	$(\frac{109}{907}, -\frac{120}{907}, -\frac{52}{907}, \frac{143}{907}, \frac{75}{907}, -\frac{138}{907}, -\frac{11}{907}, \frac{57}{907}, \frac{23}{907})$ $+ \frac{4}{907}\sqrt{2193}e^3 \otimes e_6 + \frac{4}{907}\sqrt{3655}e^5 \otimes e_7 + \frac{6}{907}\sqrt{1419}e^1 \otimes e_9$	{12358, 1467, 23479, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{24} + \frac{1}{71}\sqrt{53}e^{35}$	$(-\frac{12}{71}, \frac{30}{71}, \frac{30}{71}, -\frac{23}{71}, -\frac{23}{71}, \frac{8}{71}, \frac{18}{71}, \frac{18}{71}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 + \frac{3}{71}\sqrt{371}e^3 \otimes e_5$	{123, 1236, 12568, 1258, 145678, 14578, 23678, 2378, 2567, 257, 45, 456}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{12}, \frac{2}{71}\sqrt{265}e^{13}, \frac{1}{71}\sqrt{53}e^{24} + \frac{1}{71}\sqrt{53}e^{35}$	$(-\frac{12}{71}, \frac{30}{71}, \frac{30}{71}, -\frac{23}{71}, -\frac{23}{71}, \frac{8}{71}, \frac{18}{71}, \frac{18}{71}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^2 \otimes e_4 - \frac{3}{71}\sqrt{371}e^3 \otimes e_5$	{123, 1236, 12568, 1258, 145678, 14578, 23678, 2378, 2567, 257, 45, 456}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{3277}e^{12}, \frac{2}{347}\sqrt{3277}e^{13}, \frac{1}{347}\sqrt{6667}e^{24} + \frac{1}{347}\sqrt{6667}e^{35}$	$(\frac{60}{347}, \frac{30}{347}, -\frac{111}{694}, -\frac{83}{347}, \frac{5}{694}, \frac{235}{694}, \frac{90}{347}, \frac{9}{347}, -\frac{53}{347})$ $+ \frac{12}{347}\sqrt{226}e^1 \otimes e_9 + \frac{3}{347}\sqrt{2147}e^2 \otimes e_4 + \frac{3}{347}\sqrt{2147}e^6 \otimes e_8$	{23789, 25679, 3489, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{14}{67}e^{12}, \frac{6}{67}\sqrt{21}e^{13}, \frac{6}{67}\sqrt{21}e^{24} + \frac{14}{67}e^{35}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{238}e^4 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{123467, 12347, 1568, 158, 235689, 23589, 4679, 479}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{3241}\sqrt{99703}e^{12}, \frac{4}{3241}\sqrt{58485}e^{13}, \frac{2}{3241}\sqrt{149833}e^{24} + \frac{10}{3241}\sqrt{7798}e^{35}$	$(\frac{248}{3241}, \frac{727}{3241}, -\frac{73}{463}, -\frac{387}{3241}, \frac{851}{3241}, -\frac{866}{3241}, \frac{975}{3241}, -\frac{263}{3241}, \frac{340}{3241})$ $+ \frac{2}{3241}\sqrt{509655}e^2 \otimes e_4 + \frac{2}{3241}\sqrt{524694}e^5 \otimes e_8 + \frac{30}{3241}\sqrt{2785}e^1 \otimes e_6$	{1235, 128, 13457, 1478}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{12}, \frac{1}{38}\sqrt{470}e^{13}, \frac{1}{38}\sqrt{470}e^{24} + \frac{1}{38}\sqrt{517}e^{35}$	$(-\frac{9}{76}, -\frac{9}{76}, \frac{3}{76}, \frac{23}{76}, \frac{1}{38}, 1, -\frac{9}{38}, \frac{3}{76}, \frac{7}{38})$ $+ \frac{3}{38}\sqrt{329}e^6 \otimes e_7$	{1234689, 123568, 124569, 126, 134578, 13789, 147, 1579, 23479, 2357, 245789, 278, 3456, 369, 468, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{12}{3329}\sqrt{8362}e^{12}, \frac{6}{3329}\sqrt{8510}e^{13}, \frac{12}{3329}\sqrt{4958}e^{24} + \frac{30}{3329}\sqrt{1406}e^{35}$	$(-\frac{888}{3329}, \frac{663}{3329}, \frac{441}{3329}, -\frac{3}{3329}, \frac{219}{3329}, \frac{246}{3329}, -\frac{225}{3329}, -\frac{447}{3329}, \frac{660}{3329})$ $+ \frac{30}{3329}\sqrt{2035}e^3 \otimes e_7 + \frac{30}{3329}\sqrt{29045}e^2 \otimes e_4 + \frac{6}{3329}\sqrt{34151}e^5 \otimes e_8$	{1235, 12356, 14678, 1478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{871}e^{12}, \frac{1}{146}\sqrt{335}e^{13}, \frac{1}{146}\sqrt{335}e^{24} + \frac{1}{292}\sqrt{6298}e^{35}$	$(\frac{27}{292}, \frac{27}{584}, -\frac{15}{292}, -\frac{107}{584}, -\frac{25}{292}, \frac{215}{584}, \frac{81}{584}, \frac{3}{73}, -\frac{10}{73})$ $+ \frac{3}{292}\sqrt{1273}e^2 \otimes e_4 + \frac{3}{292}\sqrt{1273}e^6 \otimes e_7 + \frac{3}{292}\sqrt{1474}e^1 \otimes e_9$	{123568, 126, 134578, 147}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{557}\sqrt{2730}e^{12}, \frac{56}{557}\sqrt{3}e^{13}, \frac{56}{557}\sqrt{2}e^{24} + \frac{4}{557}\sqrt{2730}e^{35}$	$(\frac{111}{557}, -\frac{119}{557}, -\frac{105}{557}, \frac{118}{557}, \frac{104}{557}, \frac{6}{557}, -\frac{8}{557}, \frac{6}{557}, -\frac{1}{557})$ $+ \frac{48}{557}\sqrt{21}e^1 \otimes e_9 + \frac{4}{557}\sqrt{3514}e^5 \otimes e_7 + \frac{56}{557}\sqrt{3}e^4 \otimes e_6$	{123568, 147, 23479, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{32}{49}e^{12}, \frac{24}{49}\sqrt{3}e^{13}, \frac{24}{49}\sqrt{3}e^{24} + \frac{32}{49}e^{35}$	$(-\frac{5}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, \frac{22}{49}, \frac{6}{49}, -\frac{10}{49}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{8}{49}\sqrt{43}e^4 \otimes e_8$	{123467, 12347, 126789, 12789, 134569, 13459, 1568, 158, 235689, 23589, 245, 2456, 3678, 378, 4679, 479}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{523}\sqrt{14162}e^{12}, \frac{4}{523}\sqrt{1843}e^{13}, \frac{4}{523}\sqrt{1843}e^{24} + \frac{2}{523}\sqrt{291}e^{35}$	$(\frac{61}{523}, \frac{64}{523}, -\frac{94}{523}, -\frac{100}{523}, \frac{58}{523}, \frac{52}{523}, \frac{125}{523}, -\frac{33}{523}, -\frac{36}{523})$ $+ \frac{1}{523}\sqrt{45978}e^2 \otimes e_8 + \frac{6}{523}\sqrt{1261}e^1 \otimes e_9$	{1234, 12346, 15678, 1578, 2679, 279, 345689, 34589}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{12}, \frac{1}{15}\sqrt{6}e^{13}, \frac{1}{5}\sqrt{2}e^{24} + \frac{1}{15}\sqrt{30}e^{35}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, -\frac{1}{5}, 0, 0, \frac{1}{5})$ $+ \frac{2}{15}\sqrt{6}e^2 \otimes e_4 + \frac{2}{15}\sqrt{6}e^5 \otimes e_6 + \frac{2}{5}e^3 \otimes e_7$	{12358, 1467, 2678, 345}
93:11	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{1085}e^{13}, \frac{1}{139}\sqrt{210}e^{24} + \frac{1}{139}\sqrt{2030}e^{35}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, \frac{15}{139}, \frac{15}{139}, \frac{20}{139}, -\frac{12}{139}, -\frac{12}{139}, \frac{38}{139})$ $+ \frac{1}{139}\sqrt{2765}e^2 \otimes e_8 - \frac{1}{139}\sqrt{3885}e^3 \otimes e_7 + \frac{8}{139}\sqrt{35}e^5 \otimes e_6$	{123469, 1235, 14678, 15789, 24579, 267, 3458, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{1085}e^{13}, \frac{1}{139}\sqrt{210}e^{24} + \frac{1}{139}\sqrt{2030}e^{35}$	$(-\frac{35}{139}, \frac{23}{139}, \frac{23}{139}, \frac{15}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{12}{139}, -\frac{12}{139}, \frac{38}{139})$ $+ \frac{1}{139}\sqrt{2765}e^2 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^3 \otimes e_7 + \frac{8}{139}\sqrt{35}e^5 \otimes e_6$	{123469, 1235, 14678, 15789, 24579, 267, 3458, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{70}e^{24} + \frac{2}{67}\sqrt{70}e^{35}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $- \frac{2}{67}\sqrt{119}e^4 \otimes e_7 - \frac{2}{67}\sqrt{119}e^5 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 1678, 178, 236789, 23789, 25679, 2579, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{70}e^{24} + \frac{2}{67}\sqrt{70}e^{35}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^4 \otimes e_7 - \frac{2}{67}\sqrt{119}e^5 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 13567, 1357, 1678, 178, 236789, 23789, 25679, 2579, 34689, 3489, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{70}e^{13}, \frac{2}{67}\sqrt{70}e^{24} + \frac{2}{67}\sqrt{70}e^{35}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^4 \otimes e_7 + \frac{2}{67}\sqrt{119}e^5 \otimes e_8 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9$	{12345, 123456, 12468, 1248, 1678, 178, 236789, 23789, 25679, 2579, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{7498}e^{12}, \frac{10}{247}\sqrt{163}e^{13}, \frac{1}{247}\sqrt{15322}e^{24} + \frac{1}{247}\sqrt{4890}e^{35}$	$(\frac{1}{247}, \frac{4}{247}, -\frac{37}{247}, \frac{86}{247}, \frac{127}{247}, -\frac{77}{247}, \frac{5}{247}, -\frac{36}{247}, \frac{90}{247})$ $+ \frac{1}{247}\sqrt{34230}e^4 \otimes e_6 + \frac{2}{247}\sqrt{9291}e^5 \otimes e_8$	{123457, 12478, 1356, 168, 23689, 2569, 34789, 4579}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{49}\sqrt{22}e^{12}, \frac{4}{49}\sqrt{22}e^{13}, \frac{4}{49}\sqrt{22}e^{24} + \frac{4}{49}\sqrt{22}e^{35}$	$(-\frac{5}{49}, \frac{33}{98}, -\frac{5}{49}, \frac{1}{98}, \frac{22}{49}, -\frac{31}{98}, \frac{23}{98}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{4}{49}\sqrt{86}e^2 \otimes e_6 + \frac{4}{49}\sqrt{86}e^5 \otimes e_8$	{12345, 1248, 13567, 1678, 23789, 2579, 34689, 4569}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{985}\sqrt{3417}e^{12}, \frac{1}{985}\sqrt{11390}e^{13}, \frac{6}{985}\sqrt{51}e^{24} + \frac{1}{985}\sqrt{19142}e^{35}$	$(\frac{33}{985}, -\frac{101}{985}, -\frac{34}{985}, \frac{20}{197}, \frac{33}{985}, \frac{73}{985}, -\frac{68}{985}, -\frac{1}{985}, -\frac{1}{985})$ $+ \frac{1}{985}\sqrt{16422}e^5 \otimes e_8 + \frac{3}{985}\sqrt{2482}e^1 \otimes e_9 + \frac{6}{985}\sqrt{646}e^3 \otimes e_7$	{1235, 12356, 14678, 1478, 245679, 24579, 3689, 389}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{985}\sqrt{3417}e^{12}, \frac{1}{985}\sqrt{11390}e^{13}, \frac{6}{985}\sqrt{51}e^{24} + \frac{1}{985}\sqrt{19142}e^{35}$	$(\frac{33}{985}, -\frac{101}{985}, -\frac{34}{985}, \frac{20}{197}, \frac{33}{985}, \frac{73}{985}, -\frac{68}{985}, -\frac{1}{985}, -\frac{1}{985})$ $- \frac{1}{985}\sqrt{16422}e^5 \otimes e_8 + \frac{3}{985}\sqrt{2482}e^1 \otimes e_9 + \frac{6}{985}\sqrt{646}e^3 \otimes e_7$	{1235, 12356, 14678, 1478, 245679, 24579, 3689, 389}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{938}e^{12}, \frac{1}{79}\sqrt{3886}e^{13}, \frac{1}{79}\sqrt{3886}e^{24} + \frac{1}{79}\sqrt{2010}e^{35}$	$(-\frac{23}{79}, \frac{43}{79}, -\frac{1}{79}, -\frac{16}{79}, \frac{28}{79}, \frac{13}{79}, \frac{20}{79}, -\frac{24}{79}, \frac{27}{79})$ $+ \frac{2}{79}\sqrt{2211}e^2 \otimes e_8$	{1234, 12346, 123569, 12359, 146789, 14789, 15678, 1578, 24567, 2457, 2679, 279, 345689, 34589, 368, 38}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{12}, \frac{1}{313}\sqrt{21670}e^{13}, \frac{1}{313}\sqrt{21670}e^{24} + \frac{1}{313}\sqrt{4334}e^{35}$	$(-\frac{49}{313}, \frac{121}{313}, -\frac{27}{313}, -\frac{16}{313}, \frac{132}{313}, -\frac{65}{313}, \frac{72}{313}, -\frac{76}{313}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{16745}e^2 \otimes e_8 + \frac{4}{313}\sqrt{2561}e^5 \otimes e_6$	{12345, 12369, 145789, 1678, 2467, 2579, 34689, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{377}\sqrt{1463}e^{12}, \frac{1}{377}\sqrt{33782}e^{13}, \frac{2}{377}\sqrt{11305}e^{24} + \frac{3}{377}\sqrt{1330}e^{35}$	$(-\frac{6}{377}, -\frac{49}{377}, -\frac{49}{377}, \frac{6}{29}, \frac{6}{29}, \frac{162}{377}, -\frac{55}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{34314}e^6 \otimes e_9 + \frac{1}{377}\sqrt{57190}e^4 \otimes e_8$	{123467, 12789, 13459, 1568, 23589, 2456, 3678, 479}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{907}\sqrt{14233}e^{12}, \frac{2}{907}\sqrt{3311}e^{13}, \frac{6}{907}\sqrt{43}e^{24} + \frac{2}{907}\sqrt{11309}e^{35}$	$(\frac{109}{907}, -\frac{52}{907}, -\frac{120}{907}, \frac{75}{907}, \frac{143}{907}, -\frac{138}{907}, \frac{57}{907}, -\frac{11}{907}, \frac{23}{907})$ $+ \frac{4}{907}\sqrt{2193}e^2 \otimes e_6 + \frac{4}{907}\sqrt{3655}e^5 \otimes e_7 + \frac{6}{907}\sqrt{1419}e^1 \otimes e_9$	{12358, 1467, 23479, 5689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{839}\sqrt{92310}e^{12}, \frac{4}{839}\sqrt{1810}e^{13}, \frac{2}{839}\sqrt{543}e^{24} + \frac{2}{839}\sqrt{7602}e^{35}$	$(-\frac{11}{839}, \frac{72}{839}, -\frac{98}{839}, \frac{72}{839}, \frac{242}{839}, \frac{192}{839}, \frac{61}{839}, -\frac{109}{839}, \frac{144}{839})$ $+ \frac{1}{839}\sqrt{92310}e^2 \otimes e_8 + \frac{2}{839}\sqrt{23349}e^1 \otimes e_6 + \frac{2}{839}\sqrt{23530}e^5 \otimes e_7$	{1235, 1478, 267, 34568}
93:11	$0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{12}, \frac{2}{631}\sqrt{2717}e^{13}, \frac{2}{631}\sqrt{858}e^{24} + \frac{10}{631}\sqrt{715}e^{35}$	$(-\frac{155}{631}, \frac{113}{631}, \frac{244}{631}, \frac{76}{631}, -\frac{55}{631}, -\frac{173}{631}, -\frac{42}{631}, \frac{89}{631}, \frac{189}{631})$ $+ \frac{18}{631}\sqrt{429}e^2 \otimes e_6 + \frac{2}{631}\sqrt{45474}e^3 \otimes e_7$	{12349, 1235, 14678, 156789, 24579, 27, 34568, 3689}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{15322}e^{12}, \frac{1}{247}\sqrt{7498}e^{13}, \frac{1}{247}\sqrt{4890}e^{24} + \frac{10}{247}\sqrt{163}e^{35}$	$(\frac{4}{247}, \frac{71}{247}, \frac{1}{247}, -\frac{92}{247}, -\frac{22}{247}, \frac{142}{247}, \frac{75}{247}, \frac{5}{247}, -\frac{21}{247})$ $+ \frac{1}{247}\sqrt{34230}e^2 \otimes e_4 + \frac{2}{247}\sqrt{9291}e^6 \otimes e_9$	{12389, 1259, 134789, 14579, 2379, 25789, 349, 4589}
93:11	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{4890}e^{12}, \frac{1}{247}\sqrt{15322}e^{13}, \frac{10}{247}\sqrt{163}e^{24} + \frac{1}{247}\sqrt{7498}e^{35}$	$(-\frac{34}{247}, -\frac{37}{247}, \frac{4}{247}, \frac{92}{247}, \frac{51}{247}, \frac{7}{247}, -\frac{71}{247}, -\frac{30}{247}, \frac{55}{247})$ $+ \frac{1}{247}\sqrt{34230}e^6 \otimes e_8 + \frac{2}{247}\sqrt{9291}e^4 \otimes e_7$	{12346, 12458, 1367, 1578, 235789, 2679, 34589, 469}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{49}\sqrt{22}e^{12}, \frac{4}{49}\sqrt{22}e^{13}, \frac{4}{49}\sqrt{22}e^{24} + \frac{4}{49}\sqrt{22}e^{35}$	$(-\frac{5}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, \frac{22}{49}, \frac{6}{49}, -\frac{10}{49}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{4}{49}\sqrt{86}e^4 \otimes e_7 - \frac{4}{49}\sqrt{86}e^5 \otimes e_8$	{12345, 123456, 12468, 1248, 1678, 178, 236789, 23789, 25679, 2579, 4569, 459}
93:11	$0, 0, 0, 0, 0, 0, \frac{4}{49}\sqrt{22}e^{12}, \frac{4}{49}\sqrt{22}e^{13}, \frac{4}{49}\sqrt{22}e^{24} + \frac{4}{49}\sqrt{22}e^{35}$	$(-\frac{5}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, \frac{22}{49}, \frac{6}{49}, -\frac{10}{49}, -\frac{10}{49}, \frac{17}{49})$ $+ \frac{4}{49}\sqrt{86}e^4 \otimes e_7 + \frac{4}{49}\sqrt{86}e^5 \otimes e_8$	{12345, 123456, 12468, 1248, 1678, 178, 236789, 23789, 25679, 2579, 4569, 459}
93:12	$0, 0, 0, 0, 0, 0, \frac{72}{3209}\sqrt{195}e^{12}, \frac{18}{3209}\sqrt{3505}e^{34}, \frac{18}{3209}\sqrt{1965}e^{13} + \frac{36}{3209}\sqrt{10}e^{25}$	$(\frac{527}{3209}, -\frac{336}{3209}, \frac{138}{3209}, -\frac{421}{3209}, \frac{1001}{3209}, -\frac{672}{3209}, \frac{191}{3209}, -\frac{283}{3209}, \frac{665}{3209})$ $+ \frac{18}{3209}\sqrt{3565}e^5 \otimes e_7 + \frac{36}{3209}\sqrt{1190}e^3 \otimes e_6 + \frac{72}{3209}\sqrt{395}e^1 \otimes e_8$	{12569, 1679, 24678, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{4}{527}\sqrt{1722}e^{34}, \frac{2}{527}\sqrt{45633}e^{13} + \frac{14}{527}\sqrt{861}e^{25}$	$(\frac{1}{527}, \frac{13}{527}, -\frac{48}{527}, \frac{111}{527}, -\frac{60}{527}, 1, \frac{14}{527}, \frac{63}{527}, -\frac{47}{527})$ $+ \frac{4}{527}\sqrt{31570}e^6 \otimes e_9$	{12345678, 123567, 12479, 12789, 13468, 136, 1459, 1589, 23489, 239, 2456, 2568, 345789, 3579, 467, 678}
93:12	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{2}{139}\sqrt{455}e^{34}, \frac{1}{139}\sqrt{1295}e^{13} + \frac{1}{139}\sqrt{210}e^{25}$	$(\frac{9}{278}, -\frac{33}{278}, \frac{23}{139}, -\frac{14}{139}, \frac{44}{139}, -\frac{61}{278}, -\frac{12}{139}, \frac{9}{139}, \frac{55}{278})$ $+ \frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^3 \otimes e_7 + \frac{5}{139}\sqrt{119}e^1 \otimes e_6$	{1238, 14789, 24678, 3689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{259}\sqrt{385}e^{12}, \frac{2}{259}\sqrt{462}e^{34}, \frac{1}{259}\sqrt{1507}e^{13} + \frac{2}{259}\sqrt{385}e^{25}$	$(\frac{17}{259}, -\frac{4}{259}, \frac{3}{259}, -\frac{18}{259}, \frac{24}{259}, -\frac{29}{259}, \frac{13}{259}, -\frac{15}{259}, \frac{20}{259})$ $+ \frac{1}{259}\sqrt{1045}e^4 \otimes e_6 + \frac{1}{259}\sqrt{1661}e^5 \otimes e_7 + \frac{1}{259}\sqrt{2585}e^2 \otimes e_8$	{1256, 1478, 2679, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{557}\sqrt{5133}e^{12}, \frac{24}{557}\sqrt{29}e^{34}, \frac{2}{557}\sqrt{3567}e^{13} + \frac{2}{557}\sqrt{4321}e^{25}$	$(\frac{47}{557}, -\frac{17}{557}, \frac{24}{557}, -\frac{99}{557}, \frac{88}{557}, -\frac{11}{557}, \frac{30}{557}, -\frac{75}{557}, \frac{71}{557})$ $+ \frac{16}{557}\sqrt{87}e^5 \otimes e_7 + \frac{4}{557}\sqrt{1914}e^2 \otimes e_8 + \frac{4}{557}\sqrt{406}e^1 \otimes e_6$	{125, 1478, 2679, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{221}\sqrt{1794}e^{12}, \frac{12}{221}\sqrt{23}e^{34}, \frac{6}{221}\sqrt{138}e^{13} + \frac{1}{221}\sqrt{3243}e^{25}$	$(\frac{20}{221}, -\frac{11}{221}, \frac{10}{221}, -\frac{59}{221}, \frac{41}{221}, \frac{6}{221}, \frac{9}{221}, -\frac{49}{221}, \frac{30}{221})$ $+ \frac{11}{221}\sqrt{69}e^6 \otimes e_7 + \frac{1}{221}\sqrt{12489}e^1 \otimes e_8 + \frac{3}{221}\sqrt{805}e^3 \otimes e_4$	{235789, 2478, 3689, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{18}{743}\sqrt{213}e^{12}, \frac{4}{743}\sqrt{4899}e^{34}, \frac{2}{743}\sqrt{6035}e^{13} + \frac{6}{743}\sqrt{781}e^{25}$	$(-\frac{83}{743}, \frac{113}{743}, \frac{172}{743}, -\frac{201}{743}, -\frac{24}{743}, \frac{75}{743}, \frac{30}{743}, -\frac{29}{743}, \frac{89}{743})$ $+ \frac{24}{743}\sqrt{142}e^3 \otimes e_7 + \frac{4}{743}\sqrt{6745}e^2 \otimes e_8$	{123469, 12349, 14678, 1478, 2679, 279, 368, 38}
93:12	$0, 0, 0, 0, 0, 0, \frac{5}{32}\sqrt{3}e^{12}, \frac{3}{16}\sqrt{2}e^{34}, \frac{1}{32}\sqrt{78}e^{13} + \frac{5}{32}\sqrt{3}e^{25}$	$(\frac{7}{64}, -\frac{1}{16}, -\frac{1}{32}, -\frac{1}{8}, \frac{9}{64}, \frac{3}{32}, \frac{3}{64}, -\frac{5}{32}, \frac{5}{64})$ $+ \frac{1}{16}\sqrt{21}e^5 \otimes e_7 + \frac{1}{16}\sqrt{30}e^2 \otimes e_8 + \frac{1}{32}\sqrt{30}e^3 \otimes e_4$	{125, 1256, 2679, 279}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{714}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{210}e^{25}$	$(-\frac{15}{49}, \frac{12}{49}, \frac{18}{49}, -\frac{4}{49}, -\frac{9}{49}, \frac{5}{49}, -\frac{3}{49}, \frac{2}{49}, \frac{3}{49})$ $+ \frac{1}{49}\sqrt{798}e^2 \otimes e_5 + \frac{5}{49}\sqrt{42}e^3 \otimes e_7$	{1234, 12346, 12368, 1238, 24678, 2478, 267, 27}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, \frac{1}{45}\sqrt{102}e^{12}, \frac{1}{45}\sqrt{1122}e^{34}, \frac{2}{15}\sqrt{34}e^{13} + \frac{1}{45}\sqrt{102}e^{25}$	$(-\frac{1}{15}, \frac{2}{9}, \frac{22}{45}, -\frac{1}{15}, \frac{1}{5}, -\frac{29}{45}, \frac{7}{45}, \frac{19}{45}, \frac{19}{45})$ $+ \frac{1}{45}\sqrt{3774}e^3 \otimes e_6$	{12347, 12378, 12456789, 125679, 1345, 1358, 14689, 169, 23459, 23589, 2468, 26, 3479, 3789, 45678, 567}
93:12	$0, 0, 0, 0, 0, \frac{2}{29}\sqrt{39}e^{12}, \frac{4}{29}\sqrt{26}e^{34}, \frac{2}{29}\sqrt{65}e^{13} + \frac{6}{29}\sqrt{13}e^{25}$	$(\frac{3}{29}, -\frac{1}{29}, -\frac{8}{29}, \frac{21}{29}, -\frac{4}{29}, \frac{5}{29}, \frac{2}{29}, \frac{13}{29}, -\frac{5}{29})$ $+ \frac{4}{29}\sqrt{78}e^4 \otimes e_9$	{1234567, 123457, 12679, 1279, 134, 1346, 1569, 159, 23689, 2389, 24568, 2458, 356789, 35789, 4678, 478}
93:12	$0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{12}{185}\sqrt{41}e^{34}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{533}e^{25}$	$(\frac{51}{185}, -\frac{49}{185}, -\frac{16}{185}, -\frac{3}{37}, \frac{84}{185}, \frac{21}{185}, \frac{2}{185}, -\frac{31}{185}, \frac{7}{37})$ $+ \frac{4}{185}\sqrt{779}e^5 \otimes e_7 + \frac{4}{185}\sqrt{902}e^1 \otimes e_8$	{12345, 123456, 13467, 1347, 236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{5}{56}\sqrt{14}e^{34}, \frac{1}{56}\sqrt{182}e^{13} + \frac{1}{28}\sqrt{70}e^{25}$	$(-\frac{1}{16}, -\frac{1}{8}, \frac{1}{16}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, -\frac{3}{16}, \frac{5}{16}, 0)$ $+ \frac{1}{14}\sqrt{21}e^5 \otimes e_6 + \frac{1}{56}\sqrt{602}e^4 \otimes e_9 + \frac{1}{8}\sqrt{10}e^3 \otimes e_7$	{12345, 1579, 24578, 3589}
93:12	$0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{12}, \frac{3}{211}\sqrt{1407}e^{34}, \frac{3}{211}\sqrt{210}e^{13} + \frac{3}{422}\sqrt{861}e^{25}$	$(-\frac{123}{844}, -\frac{21}{422}, \frac{213}{844}, \frac{73}{422}, \frac{33}{211}, -\frac{58}{211}, \frac{165}{844}, \frac{359}{844}, \frac{45}{422})$ $+ \frac{3}{422}\sqrt{6783}e^4 \otimes e_6 + \frac{3}{422}\sqrt{9030}e^3 \otimes e_7$	{1234, 12368, 14789, 1679, 2478, 267, 349, 3689}
93:12	$0, 0, 0, 0, 0, \frac{1}{49}\sqrt{714}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{210}e^{25}$	$(\frac{10}{49}, -\frac{1}{7}, -\frac{1}{7}, -\frac{4}{49}, \frac{10}{49}, \frac{24}{49}, \frac{3}{49}, -\frac{11}{49}, \frac{3}{49})$ $+ \frac{1}{49}\sqrt{798}e^6 \otimes e_7 + \frac{5}{49}\sqrt{42}e^1 \otimes e_8$	{12346, 12569, 13457, 179, 235789, 2478, 3689, 4568}
93:12	$0, 0, 0, 0, 0, \frac{14}{963}\sqrt{381}e^{12}, \frac{28}{107}e^{34}, \frac{14}{963}\sqrt{273}e^{13} + \frac{14}{963}\sqrt{489}e^{25}$	$(\frac{125}{963}, -\frac{203}{963}, -\frac{112}{963}, \frac{307}{963}, \frac{24}{107}, -\frac{169}{963}, -\frac{26}{321}, \frac{65}{321}, \frac{13}{963})$ $+ \frac{224}{963}\sqrt{3}e^1 \otimes e_6 + \frac{28}{963}\sqrt{219}e^5 \otimes e_7 + \frac{321}{963}\sqrt{246}e^4 \otimes e_9$	{12345, 1347, 236789, 35689}
93:12	$0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{2}e^{34}, \frac{6}{17}\sqrt{3}e^{13} + \frac{6}{17}\sqrt{5}e^{25}$	$(\frac{1}{17}, \frac{7}{17}, \frac{4}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{11}{17}, \frac{8}{17}, \frac{5}{17}, \frac{5}{17})$ $+ \frac{6}{17}\sqrt{14}e^2 \otimes e_6$	{12349, 12389, 12458, 125, 1345679, 1356789, 14678, 167, 23457, 23578, 24789, 279, 346, 368, 45689, 569}
93:12	$0, 0, 0, 0, 0, \frac{8}{1433}\sqrt{4305}e^{12}, \frac{3}{1433}\sqrt{29274}e^{34}, \frac{28}{1433}\sqrt{41}e^{13} + \frac{21}{1433}\sqrt{82}e^{25}$	$(\frac{284}{1433}, -\frac{294}{1433}, -\frac{280}{1433}, \frac{277}{1433}, \frac{298}{1433}, \frac{11}{1433}, -\frac{10}{1433}, -\frac{3}{1433}, \frac{4}{1433})$ $+ \frac{1}{1433}\sqrt{351862}e^4 \otimes e_7 + \frac{28}{1433}\sqrt{82}e^5 \otimes e_6 + \frac{3}{1433}\sqrt{37310}e^1 \otimes e_8$	{123459, 157, 23678, 4689}
93:12	$0, 0, 0, 0, 0, \frac{2}{659}\sqrt{10855}e^{12}, \frac{2}{659}\sqrt{13026}e^{34}, \frac{2}{659}\sqrt{26553}e^{13} + \frac{2}{659}\sqrt{6513}e^{25}$	$(\frac{169}{659}, -\frac{29}{659}, -\frac{162}{659}, -\frac{3}{659}, \frac{36}{659}, \frac{341}{659}, \frac{140}{659}, -\frac{165}{659}, \frac{7}{659})$ $+ \frac{2}{659}\sqrt{44422}e^6 \otimes e_9 + \frac{2}{659}\sqrt{53106}e^1 \otimes e_8$	{123456, 129, 13467, 1579, 23789, 245678, 3589, 468}
93:12	$0, 0, 0, 0, 0, \frac{1}{75}\sqrt{715}e^{12}, \frac{1}{150}\sqrt{715}e^{34}, \frac{1}{150}\sqrt{3410}e^{13} + \frac{1}{75}\sqrt{55}e^{25}$	$(\frac{7}{100}, -\frac{1}{12}, \frac{1}{5}, -\frac{1}{6}, \frac{53}{150}, -\frac{89}{300}, -\frac{1}{75}, \frac{1}{30}, \frac{27}{100})$ $+ \frac{1}{150}\sqrt{4345}e^5 \otimes e_7 + \frac{1}{150}\sqrt{4730}e^3 \otimes e_4 + \frac{2}{75}\sqrt{385}e^1 \otimes e_6$	{12459, 1479, 2467, 456}
93:12	$0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{12}, \frac{3}{211}\sqrt{1407}e^{34}, \frac{3}{211}\sqrt{210}e^{13} + \frac{3}{422}\sqrt{861}e^{25}$	$(\frac{307}{844}, -\frac{21}{422}, -\frac{217}{844}, \frac{73}{422}, \frac{33}{211}, -\frac{58}{211}, \frac{265}{844}, -\frac{71}{844}, \frac{45}{422})$ $+ \frac{3}{422}\sqrt{6783}e^4 \otimes e_6 + \frac{3}{422}\sqrt{9030}e^1 \otimes e_8$	{1234, 12569, 13457, 1679, 2356789, 2478, 3689, 458}
93:12	$0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{170}e^{34}, \frac{2}{27}\sqrt{51}e^{13} + \frac{2}{27}\sqrt{34}e^{25}$	$(\frac{2}{9}, \frac{1}{27}, -\frac{2}{27}, -\frac{5}{27}, \frac{1}{9}, 1, \frac{7}{27}, -\frac{7}{27}, \frac{4}{27})$ $+ \frac{2}{27}\sqrt{374}e^6 \otimes e_8$	{123469, 12389, 12458, 1256, 1345679, 135789, 1478, 167, 234567, 23578, 24789, 2679, 346, 38, 4589, 569}
93:12	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{70}e^{12}, \frac{5}{56}\sqrt{14}e^{34}, \frac{1}{56}\sqrt{182}e^{13} + \frac{1}{28}\sqrt{14}e^{25}$	$(\frac{5}{28}, -\frac{1}{8}, -\frac{1}{4}, \frac{5}{28}, \frac{3}{56}, \frac{17}{56}, \frac{3}{56}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{21}e^6 \otimes e_7 + \frac{1}{56}\sqrt{602}e^1 \otimes e_8 - \frac{1}{8}\sqrt{10}e^4 \otimes e_9$	{123456, 1269, 1347, 1579, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, \frac{1}{28}\sqrt{70}e^{12}, \frac{5}{56}\sqrt{14}e^{34}, \frac{1}{56}\sqrt{182}e^{13} + \frac{1}{28}\sqrt{14}e^{25}$	$(\frac{5}{28}, -\frac{1}{8}, -\frac{1}{4}, \frac{5}{28}, \frac{3}{56}, \frac{17}{56}, \frac{3}{56}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{1}{14}\sqrt{21}e^6 \otimes e_7 + \frac{1}{56}\sqrt{602}e^1 \otimes e_8 + \frac{1}{8}\sqrt{10}e^4 \otimes e_9$	{123456, 1269, 1347, 1579, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, \frac{28}{323}\sqrt{6}e^{12}, \frac{12}{323}\sqrt{70}e^{34}, \frac{8}{323}\sqrt{70}e^{13} + \frac{48}{323}\sqrt{7}e^{25}$	$(-\frac{11}{323}, \frac{62}{323}, \frac{31}{323}, -\frac{81}{323}, -\frac{42}{323}, \frac{132}{323}, \frac{3}{19}, -\frac{50}{323}, \frac{20}{323})$ $+ \frac{20}{323}\sqrt{70}e^2 \otimes e_8 + \frac{8}{323}\sqrt{231}e^3 \otimes e_4 + \frac{8}{323}\sqrt{357}e^6 \otimes e_9$	{13678, 145789, 3589, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{8}{2879}\sqrt{18910}e^{12}, \frac{4}{2879}\sqrt{42090}e^{34},$ $\frac{4}{2879}\sqrt{46482}e^{13} + \frac{12}{2879}\sqrt{366}e^{25}$	$(-\frac{746}{2879}, \frac{460}{2879}, \frac{690}{2879}, -\frac{90}{2879}, -\frac{516}{2879}, \frac{920}{2879}, -\frac{286}{2879}, \frac{600}{2879}, -\frac{56}{2879})$ $+ \frac{12}{2879}\sqrt{15738}e^3 \otimes e_7 + \frac{4}{2879}\sqrt{81130}e^6 \otimes e_9 + \frac{8}{2879}\sqrt{24339}e^2 \otimes e_5$	{12346, 12368, 24678, 267}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{177}\sqrt{7414}e^{12}, \frac{2}{531}\sqrt{15502}e^{34},$ $\frac{2}{531}\sqrt{14491}e^{13} + \frac{4}{531}\sqrt{1685}e^{25}$	$(-\frac{20}{177}, -\frac{83}{531}, \frac{92}{531}, \frac{49}{531}, \frac{115}{531}, 1, -\frac{143}{531}, \frac{47}{177}, \frac{32}{531})$ $+ \frac{4}{531}\sqrt{36733}e^6 \otimes e_7$	{1234569, 1235689, 12468, 126, 13479, 13789, 14578, 157, 2347, 2378, 245789, 2579, 3456, 3568, 4689, 69}
93:12	$0, 0, 0, 0, 0, 0, \frac{7}{1765}\sqrt{2226}e^{12}, \frac{1}{1765}\sqrt{450394}e^{34},$ $\frac{28}{1765}\sqrt{53}e^{13} + \frac{4}{1765}\sqrt{30422}e^{25}$	$(\frac{362}{1765}, -\frac{70}{353}, -\frac{392}{1765}, \frac{341}{1765}, \frac{64}{353}, \frac{159}{1765}, \frac{12}{1765}, -\frac{51}{1765}, -\frac{6}{353})$ $+ \frac{1}{1765}\sqrt{585438}e^4 \otimes e_9 + \frac{1}{1765}\sqrt{606214}e^5 \otimes e_8$	{1236789, 123789, 1468, 148, 2345, 23456, 5679, 579}
93:12	$0, 0, 0, 0, 0, 0, \frac{5}{1251}\sqrt{12958}e^{12}, \frac{110}{1251}\sqrt{31}e^{34},$ $\frac{20}{1251}\sqrt{341}e^{13} + \frac{5}{417}\sqrt{682}e^{25}$	$(\frac{517}{1251}, -\frac{151}{1251}, -\frac{173}{1251}, -\frac{85}{1251}, \frac{55}{139}, -\frac{280}{1251}, \frac{122}{417}, -\frac{86}{417}, \frac{344}{1251})$ $+ \frac{5}{1251}\sqrt{27094}e^5 \otimes e_6 + \frac{5}{417}\sqrt{4526}e^1 \otimes e_8$	{12345, 1269, 13467, 1579, 236789, 24578, 3589, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{377274}e^{12}, \frac{3}{1699}\sqrt{30470}e^{34},$ $\frac{1}{1699}\sqrt{1055370}e^{13} + \frac{6}{1699}\sqrt{8587}e^{25}$	$(-\frac{268}{1699}, \frac{181}{1699}, \frac{403}{1699}, -\frac{428}{1699}, -\frac{46}{1699}, \frac{966}{1699}, -\frac{87}{1699}, -\frac{25}{1699}, \frac{135}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^3 \otimes e_4 + \frac{2}{1699}\sqrt{343203}e^6 \otimes e_9$	{123567, 12479, 136, 1459, 239, 2456, 3579, 467}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{531}\sqrt{1685}e^{12}, \frac{2}{531}\sqrt{15502}e^{34},$ $\frac{2}{531}\sqrt{14491}e^{13} + \frac{2}{177}\sqrt{7414}e^{25}$	$(\frac{158}{531}, -\frac{83}{531}, \frac{92}{531}, \frac{49}{531}, \frac{37}{59}, -\frac{341}{531}, \frac{25}{177}, \frac{47}{177}, \frac{250}{531})$ $+ \frac{4}{531}\sqrt{36733}e^5 \otimes e_6$	{1234679, 1236789, 124578, 1257, 13459, 13589, 1468, 16, 2345, 2358, 24689, 269, 3467, 3678, 45789, 579}
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30}e^{12}, \frac{3}{38}\sqrt{3}e^{34}, \frac{9}{38}\sqrt{2}e^{13} + \frac{3}{38}\sqrt{30}e^{25}$	$(-\frac{7}{76}, -\frac{11}{76}, \frac{8}{19}, -\frac{11}{38}, \frac{9}{19}, \frac{9}{76}, -\frac{9}{38}, \frac{5}{38}, \frac{25}{76})$ $+ \frac{3}{38}\sqrt{11}e^5 \otimes e_7 + \frac{9}{38}\sqrt{10}e^3 \otimes e_4$	{123568, 12358, 13678, 1378, 236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{533}e^{12}, \frac{12}{185}\sqrt{41}e^{34}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{2337}e^{25}$	$(\frac{7}{185}, \frac{27}{185}, -\frac{16}{185}, \frac{73}{185}, -\frac{36}{185}, -\frac{11}{37}, \frac{34}{185}, \frac{57}{185}, -\frac{9}{185})$ $+ \frac{4}{185}\sqrt{779}e^2 \otimes e_6 + \frac{4}{185}\sqrt{902}e^4 \otimes e_9$	{12345, 129, 13467, 15679, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{21}{1433}\sqrt{82}e^{12}, \frac{3}{1433}\sqrt{29274}e^{34},$ $\frac{28}{1433}\sqrt{41}e^{13} + \frac{8}{1433}\sqrt{4305}e^{25}$	$(\frac{242}{1433}, -\frac{294}{1433}, -\frac{280}{1433}, \frac{249}{1433}, \frac{256}{1433}, \frac{235}{1433}, -\frac{52}{1433}, -\frac{31}{1433}, -\frac{38}{1433})$ $+ \frac{1}{1433}\sqrt{351862}e^5 \otimes e_8 + \frac{28}{1433}\sqrt{82}e^6 \otimes e_7 + \frac{3}{1433}\sqrt{37310}e^4 \otimes e_9$	{123789, 1468, 23456, 579}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13}e^{12}, \frac{4}{29}\sqrt{26}e^{34}, \frac{2}{29}\sqrt{65}e^{13} + \frac{2}{29}\sqrt{39}e^{25}$	$(-\frac{9}{29}, -\frac{1}{29}, \frac{16}{29}, -\frac{3}{29}, \frac{8}{29}, \frac{5}{29}, -\frac{10}{29}, \frac{13}{29}, \frac{7}{29})$ $+ \frac{4}{29}\sqrt{78}e^3 \otimes e_7$	{1234, 12346, 12368, 1238, 146789, 14789, 1679, 179, 24678, 2478, 267, 27, 3469, 349, 3689, 389}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{801}\sqrt{84254}e^{12}, \frac{1}{801}\sqrt{76074}e^{34},$ $\frac{1}{801}\sqrt{33538}e^{13} + \frac{5}{801}\sqrt{818}e^{25}$	$(-\frac{25}{267}, \frac{247}{801}, \frac{160}{801}, -\frac{83}{267}, -\frac{18}{89}, \frac{320}{801}, \frac{172}{801}, -\frac{1}{9}, \frac{85}{801})$ $+ \frac{16}{801}\sqrt{818}e^2 \otimes e_5 + \frac{1}{801}\sqrt{205318}e^6 \otimes e_8 + \frac{5}{267}\sqrt{818}e^3 \otimes e_4$	{1238, 13578, 2478, 458}
93:12	$0, 0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{12}, \frac{3}{1403}\sqrt{6186}e^{34},$ $\frac{1}{1403}\sqrt{476322}e^{13} + \frac{1}{1403}\sqrt{439206}e^{25}$	$(\frac{17}{1403}, \frac{35}{1403}, \frac{577}{1403}, -\frac{454}{1403}, \frac{559}{1403}, -\frac{472}{1403}, \frac{52}{1403}, \frac{123}{1403}, \frac{594}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^3 \otimes e_4 + \frac{2}{1403}\sqrt{320641}e^5 \otimes e_6$	{12357, 124679, 136, 1459, 2369, 245, 3579, 467}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{323}\sqrt{1133}e^{12}, \frac{2}{323}\sqrt{5665}e^{34},$ $\frac{2}{323}\sqrt{1133}e^{13} + \frac{4}{323}\sqrt{1133}e^{25}$	$(-\frac{15}{323}, -\frac{48}{323}, \frac{110}{323}, -\frac{15}{323}, \frac{143}{323}, -\frac{96}{323}, -\frac{63}{323}, \frac{5}{17}, \frac{5}{17})$ $+ \frac{14}{323}\sqrt{309}e^5 \otimes e_7 + \frac{4}{323}\sqrt{3502}e^3 \otimes e_6$	{12345, 12358, 1347, 1378, 23479, 23789, 3459, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{18}{929}\sqrt{285}e^{12}, \frac{36}{929}\sqrt{34}e^{34}, \frac{18}{929}\sqrt{87}e^{13} + \frac{18}{929}\sqrt{161}e^{25}$	$(\frac{123}{929}, -\frac{69}{929}, \frac{24}{929}, -\frac{63}{929}, \frac{216}{929}, -\frac{231}{929}, \frac{54}{929}, -\frac{39}{929}, \frac{147}{929})$ $+ \frac{36}{929}\sqrt{62}e^1 \otimes e_8 + \frac{72}{929}\sqrt{19}e^2 \otimes e_6 + \frac{72}{929}\sqrt{19}e^5 \otimes e_7$	{125, 167, 24789, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{1283}\sqrt{12669}e^{12}, \frac{2}{1283}\sqrt{47478}e^{34},$ $\frac{10}{1283}\sqrt{615}e^{13} + \frac{2}{1283}\sqrt{12669}e^{25}$	$(-\frac{121}{1283}, -\frac{99}{1283}, \frac{26}{1283}, \frac{151}{1283}, \frac{4}{1283}, \frac{423}{1283}, -\frac{220}{1283}, \frac{177}{1283}, -\frac{95}{1283})$ $+ \frac{2}{1283}\sqrt{52890}e^3 \otimes e_7 + \frac{2}{1283}\sqrt{52890}e^4 \otimes e_9 + \frac{4}{1283}\sqrt{9717}e^6 \otimes e_8$	{123456, 15679, 24578, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{10}{49}\sqrt{2}e^{12}, \frac{4}{49}\sqrt{15}e^{34}, \frac{2}{49}\sqrt{10}e^{13} + \frac{2}{49}\sqrt{30}e^{25}$	$(-\frac{11}{98}, \frac{6}{49}, \frac{17}{98}, -\frac{3}{14}, -\frac{3}{49}, \frac{11}{49}, \frac{1}{98}, -\frac{2}{49}, \frac{3}{49})$ $+ \frac{2}{49}\sqrt{26}e^6 \otimes e_9 + \frac{2}{49}\sqrt{66}e^3 \otimes e_7 + \frac{2}{49}\sqrt{86}e^2 \otimes e_8$	{12349, 14678, 279, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{315}{1709}\sqrt{10}e^{12}, \frac{5}{1709}\sqrt{1330}e^{34},$ $\frac{60}{1709}\sqrt{105}e^{13} + \frac{20}{1709}\sqrt{910}e^{25}$	$(\frac{205}{1709}, \frac{521}{1709}, -\frac{38}{1709}, \frac{178}{1709}, -\frac{354}{1709}, -\frac{670}{1709}, \frac{726}{1709}, \frac{140}{1709}, \frac{167}{1709})$ $+ \frac{35}{1709}\sqrt{1030}e^2 \otimes e_5 + \frac{5}{1709}\sqrt{58030}e^1 \otimes e_6$	{123, 12348, 134578, 1357, 2467, 2678, 456, 568}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{2278}e^{12}, \frac{4}{111}\sqrt{51}e^{34}, \frac{1}{111}\sqrt{1870}e^{13} + \frac{34}{111}e^{25}$	$(-\frac{7}{222}, -\frac{13}{222}, \frac{8}{37}, -\frac{2}{111}, \frac{9}{37}, -\frac{25}{74}, -\frac{10}{111}, \frac{22}{111}, \frac{41}{222})$ $+ \frac{1}{111}\sqrt{3230}e^1 \otimes e_6 + \frac{1}{111}\sqrt{3638}e^3 \otimes e_7$	{1234, 1238, 14789, 179, 24678, 267, 3469, 3689}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{1765}\sqrt{30422}e^{12}, \frac{1}{1765}\sqrt{450394}e^{34},$ $\frac{28}{1765}\sqrt{53}e^{13} + \frac{7}{1765}\sqrt{2226}e^{25}$	$(\frac{348}{1765}, -\frac{70}{353}, -\frac{392}{1765}, \frac{369}{1765}, \frac{306}{1765}, \frac{159}{1765}, -\frac{2}{1765}, -\frac{23}{1765}, -\frac{44}{1765})$ $+ \frac{1}{1765}\sqrt{585438}e^1 \otimes e_8 + \frac{1}{1765}\sqrt{606214}e^4 \otimes e_7$	{1234569, 123459, 1567, 157, 23678, 2378, 4689, 489}
93:12	$0, 0, 0, 0, 0, 0, \frac{12}{191}\sqrt{5}e^{12}, \frac{2}{191}\sqrt{510}e^{34}, \frac{20}{191}\sqrt{21}e^{13} + \frac{4}{191}\sqrt{130}e^{25}$	$(-\frac{135}{764}, \frac{87}{382}, \frac{163}{764}, -\frac{157}{764}, -\frac{73}{382}, \frac{87}{191}, \frac{39}{764}, \frac{3}{382}, \frac{7}{191})$ $+ \frac{10}{191}\sqrt{106}e^3 \otimes e_4 + \frac{2}{191}\sqrt{1510}e^2 \otimes e_5 + \frac{2}{191}\sqrt{2910}e^6 \otimes e_9$	{12479, 1459, 239, 3579}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{7414}e^{12}, \frac{2}{531}\sqrt{15502}e^{34},$ $\frac{2}{531}\sqrt{14491}e^{13} + \frac{4}{531}\sqrt{1685}e^{25}$	$(-\frac{20}{177}, \frac{353}{531}, \frac{92}{531}, \frac{49}{531}, -\frac{107}{177}, \frac{95}{531}, \frac{293}{531}, \frac{47}{177}, \frac{32}{531})$ $+ \frac{4}{531}\sqrt{36733}e^2 \otimes e_5$	{12, 12468, 1248, 126, 145678, 14578, 1567, 157, 23467, 2347, 23678, 2378, 345, 3456, 3568, 358}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{5565}e^{12}, \frac{4}{499}\sqrt{1190}e^{34},$ $\frac{14}{499}\sqrt{65}e^{13} + \frac{2}{499}\sqrt{2415}e^{25}$	$(\frac{21}{499}, -\frac{47}{499}, \frac{44}{499}, -\frac{93}{499}, \frac{112}{499}, \frac{43}{499}, -\frac{26}{499}, -\frac{49}{499}, \frac{65}{499})$ $+ \frac{4}{499}\sqrt{1995}e^1 \otimes e_8 + \frac{4}{499}\sqrt{1995}e^3 \otimes e_7$	{1234, 12346, 1679, 179, 24678, 2478, 3689, 389}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{557}\sqrt{4321}e^{12}, \frac{24}{557}\sqrt{29}e^{34},$ $\frac{2}{557}\sqrt{3567}e^{13} + \frac{2}{557}\sqrt{5133}e^{25}$	$(\frac{19}{557}, -\frac{17}{557}, \frac{24}{557}, -\frac{99}{557}, \frac{60}{557}, \frac{101}{557}, \frac{2}{557}, -\frac{75}{557}, \frac{43}{557})$ $+ \frac{16}{557}\sqrt{87}e^5 \otimes e_7 + \frac{4}{557}\sqrt{1914}e^2 \otimes e_8 + \frac{4}{557}\sqrt{406}e^6 \otimes e_9$	{1256, 14678, 279, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{20}{2911}\sqrt{1498}e^{12}, \frac{20}{2911}\sqrt{1874}e^{34},$ $\frac{40}{2911}\sqrt{191}e^{13} + \frac{40}{2911}\sqrt{282}e^{25}$	$(-\frac{115}{2911}, \frac{264}{2911}, \frac{549}{2911}, -\frac{685}{2911}, \frac{170}{2911}, -\frac{230}{2911}, \frac{149}{2911}, -\frac{136}{2911}, \frac{434}{2911})$ $+ \frac{100}{2911}\sqrt{106}e^2 \otimes e_8 + \frac{40}{2911}\sqrt{241}e^5 \otimes e_6 + \frac{40}{2911}\sqrt{426}e^3 \otimes e_7$	{123469, 14678, 2679, 368}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{379}\sqrt{11946}e^{12}, \frac{2}{379}\sqrt{5973}e^{34},$ $\frac{1}{379}\sqrt{3982}e^{13} + \frac{1}{379}\sqrt{19910}e^{25}$	$(\frac{14}{379}, -\frac{52}{379}, \frac{66}{379}, -\frac{115}{379}, \frac{132}{379}, \frac{143}{379}, -\frac{38}{379}, -\frac{49}{379}, \frac{80}{379})$ $+ \frac{1}{379}\sqrt{30770}e^3 \otimes e_4 + \frac{1}{379}\sqrt{38734}e^6 \otimes e_7 + \frac{1}{379}\sqrt{54662}e^5 \otimes e_8$	{123689, 1478, 24789, 368}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{105}e^{34}, \frac{2}{67}\sqrt{35}e^{13} + \frac{2}{67}\sqrt{70}e^{25}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^5 \otimes e_7 + \frac{2}{67}\sqrt{154}e^1 \otimes e_8 + \frac{2}{67}\sqrt{154}e^4 \otimes e_9$	{12345, 123456, 13467, 1347, 236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{105}e^{34}, \frac{2}{67}\sqrt{35}e^{13} + \frac{2}{67}\sqrt{70}e^{25}$	$(\frac{13}{67}, -\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{119}e^5 \otimes e_7 + \frac{2}{67}\sqrt{154}e^1 \otimes e_8 - \frac{2}{67}\sqrt{154}e^4 \otimes e_9$	{12345, 123456, 13467, 1347, 236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{12}, \frac{1}{64}\sqrt{815}e^{34},$ $\frac{1}{128}\sqrt{16626}e^{13} + \frac{1}{128}\sqrt{2445}e^{25}$	$(-\frac{45}{256}, \frac{9}{32}, \frac{87}{128}, -\frac{19}{32}, \frac{57}{256}, \frac{21}{128}, \frac{27}{256}, \frac{11}{128}, \frac{129}{256})$ $+ \frac{1}{128}\sqrt{34882}e^3 \otimes e_4$	{12367, 1237, 1245679, 124579, 135, 1356, 1469, 149, 23569, 2359, 24, 246, 3679, 379, 4567, 457}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{259}\sqrt{231}e^{12}, \frac{6}{259}\sqrt{91}e^{34}, \frac{6}{259}\sqrt{35}e^{13} + \frac{1}{259}\sqrt{3738}e^{25}$	$(\frac{4}{37}, \frac{2}{37}, -\frac{4}{37}, \frac{3}{37}, -\frac{2}{37}, -\frac{5}{37}, \frac{6}{37}, -\frac{1}{37}, 0)$ $+ \frac{1}{259}\sqrt{2310}e^5 \otimes e_6 + \frac{1}{259}\sqrt{3318}e^4 \otimes e_9 + \frac{3}{37}\sqrt{10}e^2 \otimes e_8$	{135789, 14678, 23457, 2679}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{66}e^{12}, \frac{1}{64}\sqrt{770}e^{34}, \frac{1}{64}\sqrt{506}e^{13} + \frac{1}{32}\sqrt{66}e^{25}$	$(\frac{9}{32}, -\frac{5}{64}, -\frac{11}{32}, \frac{9}{32}, \frac{1}{64}, \frac{7}{64}, \frac{13}{64}, -\frac{1}{16}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1254}e^1 \otimes e_8 + \frac{1}{64}\sqrt{1254}e^4 \otimes e_9$	{12345, 123456, 1269, 129, 13467, 1347, 15679, 1579, 236789, 23789, 245678, 24578, 35689, 3589, 468, 48}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{66}e^{12}, \frac{1}{64}\sqrt{770}e^{34}, \frac{1}{64}\sqrt{506}e^{13} + \frac{1}{32}\sqrt{66}e^{25}$	$(\frac{9}{32}, -\frac{5}{64}, -\frac{11}{32}, \frac{9}{32}, \frac{1}{64}, \frac{7}{64}, \frac{13}{64}, -\frac{1}{16}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1254}e^1 \otimes e_8 - \frac{1}{64}\sqrt{1254}e^4 \otimes e_9$	{12345, 123456, 1269, 129, 13467, 1347, 15679, 1579, 236789, 23789, 245678, 24578, 35689, 3589, 468, 48}
93:12	$0, 0, 0, 0, 0, 0, \frac{5}{1251}\sqrt{682}e^{12}, \frac{110}{1251}\sqrt{31}e^{34},$ $\frac{20}{1251}\sqrt{341}e^{13} + \frac{5}{1251}\sqrt{12958}e^{25}$	$(-\frac{10}{417}, \frac{286}{1251}, -\frac{173}{1251}, \frac{572}{1251}, -\frac{163}{417}, \frac{157}{1251}, \frac{256}{1251}, \frac{133}{417}, -\frac{203}{1251})$ $+ \frac{5}{1251}\sqrt{27094}e^2 \otimes e_5 + \frac{5}{417}\sqrt{4526}e^4 \otimes e_9$	{1269, 129, 15679, 1579, 236789, 23789, 35689, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{9}{55}\sqrt{2}e^{34}, \frac{3}{55}\sqrt{34}e^{13} + \frac{6}{55}\sqrt{13}e^{25}$	$(\frac{3}{110}, -\frac{3}{55}, \frac{9}{110}, -\frac{27}{110}, \frac{9}{55}, \frac{24}{55}, -\frac{3}{110}, -\frac{9}{55}, \frac{6}{55})$ $+ \frac{3}{55}\sqrt{53}e^3 \otimes e_4 + \frac{3}{55}\sqrt{71}e^5 \otimes e_8 + \frac{3}{55}\sqrt{79}e^6 \otimes e_9$	{124789, 1368, 2389, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{3601}\sqrt{47215}e^{12}, \frac{2}{3601}\sqrt{444318}e^{34},$ $\frac{2}{3601}\sqrt{51191}e^{13} + \frac{2}{3601}\sqrt{96915}e^{25}$	$(\frac{883}{3601}, -\frac{735}{3601}, -\frac{476}{3601}, \frac{365}{3601}, \frac{1142}{3601}, -\frac{629}{3601}, \frac{148}{3601}, -\frac{111}{3601}, \frac{407}{3601})$ $+ \frac{14}{3601}\sqrt{10366}e^5 \otimes e_7 + \frac{4}{3601}\sqrt{164010}e^1 \otimes e_8 + \frac{8}{3601}\sqrt{29323}e^4 \otimes e_6$	{1256, 167, 24789, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{714}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{210}e^{25}$	$(\frac{10}{49}, \frac{12}{49}, -\frac{1}{7}, -\frac{4}{49}, -\frac{9}{49}, \frac{5}{49}, \frac{22}{49}, -\frac{11}{49}, \frac{3}{49})$ $+ \frac{1}{49}\sqrt{798}e^2 \otimes e_5 + \frac{5}{49}\sqrt{42}e^1 \otimes e_8$	{1234, 12346, 134567, 13457, 24678, 2478, 4568, 458}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{10185}e^{12}, \frac{2}{361}\sqrt{582}e^{34},$ $\frac{2}{361}\sqrt{2037}e^{13} + \frac{10}{361}\sqrt{97}e^{25}$	$(\frac{73}{361}, -\frac{91}{361}, \frac{12}{361}, \frac{33}{361}, \frac{176}{361}, -\frac{121}{361}, -\frac{18}{361}, \frac{45}{361}, \frac{85}{361})$ $+ \frac{18}{361}\sqrt{194}e^5 \otimes e_7 + \frac{8}{361}\sqrt{970}e^1 \otimes e_6$	{12345, 12358, 1347, 1378, 234679, 236789, 34569, 35689}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{1793}\sqrt{9165}e^{12}, \frac{1}{1793}\sqrt{563342}e^{34},$ $\frac{2}{1793}\sqrt{125255}e^{13} + \frac{4}{1793}\sqrt{12831}e^{25}$	$(\frac{372}{1793}, \frac{74}{1793}, \frac{46}{1793}, -\frac{285}{1793}, \frac{344}{1793}, -\frac{565}{1793}, \frac{446}{1793}, -\frac{239}{1793}, \frac{38}{1793})$ $+ \frac{13}{1793}\sqrt{5358}e^3 \otimes e_6 + \frac{2}{1793}\sqrt{267618}e^1 \otimes e_8$	{1234, 12569, 13457, 1679, 235789, 24678, 389, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{293}\sqrt{1455}e^{12}, \frac{2}{293}\sqrt{3298}e^{34},$ $\frac{1}{293}\sqrt{9118}e^{13} + \frac{1}{293}\sqrt{18430}e^{25}$	$(\frac{44}{293}, \frac{13}{293}, \frac{31}{293}, -\frac{66}{293}, \frac{62}{293}, -\frac{84}{293}, \frac{57}{293}, -\frac{35}{293}, \frac{75}{293})$ $+ \frac{1}{293}\sqrt{21534}e^2 \otimes e_6 + \frac{2}{293}\sqrt{6305}e^5 \otimes e_8 + \frac{5}{293}\sqrt{194}e^3 \otimes e_4$	{12389, 14678, 24789, 368}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{12}{185}\sqrt{41}e^{34}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{533}e^{25}$	$(-\frac{1}{5}, \frac{27}{185}, \frac{72}{185}, -\frac{3}{37}, \frac{8}{185}, -\frac{11}{37}, -\frac{2}{37}, \frac{57}{185}, \frac{7}{37})$ $+ \frac{4}{185}\sqrt{779}e^2 \otimes e_6 + \frac{8}{185}\sqrt{902}e^3 \otimes e_7$	{12345, 12358, 1456789, 15679, 24578, 257, 34569, 35689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{1073}e^{12}, \frac{8}{181}\sqrt{111}e^{34}, \frac{2}{181}\sqrt{703}e^{13} + \frac{2}{181}\sqrt{2109}e^{25}$	$(\frac{11}{181}, \frac{39}{181}, -\frac{8}{181}, -\frac{27}{181}, -\frac{36}{181}, \frac{77}{181}, \frac{50}{181}, -\frac{35}{181}, \frac{3}{181})$ $+ \frac{4}{181}\sqrt{518}e^6 \otimes e_9 + \frac{4}{181}\sqrt{962}e^2 \otimes e_8$	{12349, 1256, 135789, 14678, 234567, 279, 368, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{8}{2879}\sqrt{18910}e^{12}, \frac{4}{2879}\sqrt{42090}e^{34},$ $\frac{4}{2879}\sqrt{46482}e^{13} + \frac{12}{2879}\sqrt{366}e^{25}$	$(\frac{415}{2879}, \frac{460}{2879}, -\frac{471}{2879}, -\frac{90}{2879}, \frac{516}{2879}, \frac{920}{2879}, \frac{875}{2879}, -\frac{561}{2879}, -\frac{56}{2879})$ $+ \frac{12}{2879}\sqrt{15738}e^1 \otimes e_8 + \frac{4}{2879}\sqrt{81130}e^6 \otimes e_9 + \frac{8}{2879}\sqrt{24339}e^2 \otimes e_5$	{12346, 134567, 24678, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{703}e^{12}, \frac{4}{123}\sqrt{57}e^{34}, \frac{10}{123}\sqrt{19}e^{13} + \frac{2}{123}\sqrt{703}e^{25}$	$(-\frac{1}{123}, -\frac{7}{123}, \frac{8}{41}, -\frac{1}{123}, \frac{10}{41}, -\frac{15}{41}, -\frac{8}{123}, \frac{23}{123}, \frac{23}{123})$ $+ \frac{4}{123}\sqrt{266}e^2 \otimes e_6 + \frac{4}{123}\sqrt{266}e^5 \otimes e_7$	{12458, 125, 14678, 167, 24789, 279, 45689, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{12}, \frac{13}{35}\sqrt{2}e^{34}, \frac{2}{35}\sqrt{26}e^{13} + \frac{1}{35}\sqrt{182}e^{25}$	$(\frac{1}{35}, \frac{2}{7}, \frac{6}{35}, -\frac{9}{35}, -\frac{3}{35}, -\frac{1}{5}, \frac{11}{35}, -\frac{3}{35}, \frac{1}{5})$ $+ \frac{1}{35}\sqrt{286}e^3 \otimes e_6 + \frac{2}{35}\sqrt{130}e^2 \otimes e_8$	{12349, 1256, 135789, 14678, 23457, 2679, 38, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{10}{1457}\sqrt{659}e^{12}, \frac{1}{1457}\sqrt{644502}e^{34},$ $\frac{2}{1457}\sqrt{3295}e^{13} + \frac{2}{1457}\sqrt{104122}e^{25}$	$(\frac{216}{1457}, -\frac{110}{1457}, \frac{246}{1457}, -\frac{333}{1457}, \frac{572}{1457}, -\frac{413}{1457}, \frac{106}{1457}, -\frac{87}{1457}, \frac{462}{1457})$ $+ \frac{1}{1457}\sqrt{749942}e^3 \otimes e_6 + \frac{2}{1457}\sqrt{241194}e^5 \otimes e_8$	{123789, 12567, 13459, 1468, 2345, 24689, 378, 5679}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{345}e^{12}, \frac{6}{79}\sqrt{46}e^{34}, \frac{2}{79}\sqrt{299}e^{13} + \frac{2}{79}\sqrt{345}e^{25}$	$(\frac{7}{79}, -\frac{21}{79}, \frac{4}{79}, -\frac{9}{79}, \frac{32}{79}, \frac{41}{79}, -\frac{14}{79}, -\frac{5}{79}, \frac{11}{79})$ $+ \frac{2}{79}\sqrt{874}e^5 \otimes e_7 + \frac{8}{79}\sqrt{46}e^6 \otimes e_8$	{12458, 1256, 1478, 167, 24789, 2679, 4589, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{2}{41}\sqrt{77}e^{34}, \frac{6}{41}\sqrt{7}e^{13} + \frac{2}{41}\sqrt{35}e^{25}$	$(-\frac{2}{41}, \frac{1}{41}, \frac{2}{41}, \frac{13}{41}, -\frac{1}{41}, -\frac{13}{41}, -\frac{1}{41}, \frac{15}{41}, 0)$ $+ \frac{2}{41}\sqrt{119}e^2 \otimes e_6 + \frac{4}{41}\sqrt{35}e^4 \otimes e_7$	{12349, 12458, 1356789, 167, 23578, 279, 346, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{12}, \frac{2}{27}\sqrt{170}e^{34}, \frac{2}{27}\sqrt{51}e^{13} + \frac{2}{27}\sqrt{34}e^{25}$	$(\frac{2}{9}, \frac{1}{27}, -\frac{2}{27}, \frac{17}{27}, \frac{1}{9}, -\frac{17}{27}, \frac{7}{27}, \frac{5}{9}, \frac{4}{27})$ $+ \frac{2}{27}\sqrt{374}e^4 \otimes e_6$	{12349, 123689, 12458, 1256, 134579, 1356789, 1478, 167, 23457, 235678, 24789, 2679, 34, 368, 4589, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{10703}e^{12}, \frac{1}{383}\sqrt{15785}e^{34},$ $\frac{1}{383}\sqrt{6006}e^{13} + \frac{11}{383}\sqrt{105}e^{25}$	$(\frac{2}{383}, -\frac{5}{383}, \frac{74}{383}, -\frac{70}{383}, \frac{81}{383}, -\frac{82}{383}, -\frac{3}{383}, \frac{4}{383}, \frac{76}{383})$ $+ \frac{1}{383}\sqrt{17633}e^2 \otimes e_6 + \frac{1}{383}\sqrt{20174}e^5 \otimes e_8 + \frac{7}{383}\sqrt{330}e^3 \otimes e_7$	{12389, 14678, 24789, 368}
93:12	$0, 0, 0, 0, 0, 0, \frac{14}{423}\sqrt{106}e^{12}, \frac{2}{423}\sqrt{9434}e^{34},$ $\frac{2}{423}\sqrt{5883}e^{13} + \frac{14}{423}\sqrt{106}e^{25}$	$(\frac{6}{47}, \frac{85}{423}, -\frac{26}{423}, \frac{5}{423}, -\frac{19}{141}, -\frac{101}{423}, \frac{139}{423}, -\frac{7}{141}, \frac{28}{423})$ $+ \frac{8}{423}\sqrt{7526}e^4 \otimes e_6 + \frac{8}{423}\sqrt{795}e^2 \otimes e_8$	{12349, 1256, 1356789, 1478, 23457, 2679, 368, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{720}\sqrt{46258}e^{12}, \frac{7}{360}\sqrt{202}e^{34},$ $\frac{1}{720}\sqrt{26462}e^{13} + \frac{1}{240}\sqrt{2222}e^{25}$	$(\frac{61}{1440}, -\frac{17}{180}, \frac{127}{1440}, -\frac{67}{360}, \frac{9}{40}, \frac{61}{720}, -\frac{5}{96}, -\frac{47}{480}, \frac{47}{360})$ $+ \frac{1}{240}\sqrt{7373}e^1 \otimes e_8 + \frac{1}{240}\sqrt{7373}e^3 \otimes e_7 + \frac{1}{720}\sqrt{202}e^5 \otimes e_6$	{12346, 1679, 24678, 3689}
93:12	$0, 0, 0, 0, 0, 0, \frac{5}{417}\sqrt{682}e^{12}, \frac{110}{1251}\sqrt{31}e^{34},$ $\frac{20}{1251}\sqrt{341}e^{13} + \frac{5}{1251}\sqrt{12958}e^{25}$	$(-\frac{10}{417}, -\frac{151}{1251}, -\frac{173}{1251}, \frac{572}{1251}, -\frac{52}{1251}, \frac{66}{139}, -\frac{181}{1251}, \frac{133}{417}, -\frac{203}{1251})$ $+ \frac{5}{1251}\sqrt{27094}e^6 \otimes e_7 + \frac{5}{417}\sqrt{4526}e^4 \otimes e_9$	{123456, 1269, 1347, 1579, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{55}{357}\sqrt{6}e^{12}, \frac{11}{357}\sqrt{86}e^{34}, \frac{11}{119}\sqrt{10}e^{13} + \frac{22}{357}\sqrt{2}e^{25}$	$(\frac{18}{119}, -\frac{47}{357}, \frac{9}{119}, -\frac{94}{357}, \frac{128}{357}, \frac{32}{51}, \frac{1}{51}, -\frac{67}{357}, \frac{27}{119})$ $+ \frac{110}{357}\sqrt{2}e^5 \otimes e_7 + \frac{11}{357}\sqrt{166}e^3 \otimes e_4 + \frac{22}{357}\sqrt{71}e^1 \otimes e_8$	{236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{8}{781}\sqrt{2001}e^{12}, \frac{4}{781}\sqrt{6989}e^{34},$ $\frac{56}{781}\sqrt{29}e^{13} + \frac{4}{781}\sqrt{4321}e^{25}$	$(-\frac{2}{781}, \frac{102}{781}, \frac{3}{71}, -\frac{163}{781}, -\frac{1}{11}, \frac{332}{781}, \frac{100}{781}, -\frac{130}{781}, \frac{31}{781})$ $+ \frac{4}{781}\sqrt{13021}e^2 \otimes e_8 + \frac{4}{781}\sqrt{7366}e^6 \otimes e_7$	{123469, 1256, 135789, 1478, 23457, 279, 368, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{49}\sqrt{210}e^{12}, \frac{3}{49}\sqrt{42}e^{34}, \frac{3}{49}\sqrt{14}e^{13} + \frac{1}{49}\sqrt{714}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{2}{7}, 0, \frac{2}{7}, 0)$ $+ \frac{1}{49}\sqrt{798}e^5 \otimes e_6 + \frac{5}{49}\sqrt{42}e^4 \otimes e_9$	{123457, 12679, 1346, 159, 23689, 2458, 35789, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{539}\sqrt{12815}e^{12}, \frac{2}{539}\sqrt{50794}e^{34},$ $\frac{2}{539}\sqrt{26795}e^{13} + \frac{2}{539}\sqrt{1398}e^{25}$	$(-\frac{18}{539}, -\frac{127}{539}, -\frac{16}{539}, \frac{321}{539}, \frac{93}{539}, \frac{87}{539}, -\frac{145}{539}, \frac{305}{539}, -\frac{34}{539})$ $+ \frac{4}{539}\sqrt{26329}e^4 \otimes e_7$	{1234569, 123459, 12468, 1248, 136789, 13789, 1567, 157, 23678, 2378, 25679, 2579, 345, 3456, 4689, 489}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{444718}e^{12}, \frac{1}{1445}\sqrt{448602}e^{34},$ $\frac{4}{1445}\sqrt{18449}e^{13} + \frac{1}{1445}\sqrt{137882}e^{25}$	$(-\frac{213}{1445}, \frac{122}{289}, \frac{462}{1445}, -\frac{63}{1445}, -\frac{361}{1445}, -\frac{509}{1445}, \frac{397}{1445}, \frac{399}{1445}, \frac{249}{1445})$ $+ \frac{1}{1445}\sqrt{1314734}e^3 \otimes e_6 + \frac{4}{289}\sqrt{2913}e^2 \otimes e_5$	{1234, 1238, 13457, 13578, 24678, 267, 4568, 56}
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{95}\sqrt{2}e^{12}, \frac{9}{95}\sqrt{6}e^{34}, \frac{12}{95}e^{13} + \frac{6}{95}\sqrt{17}e^{25}$	$(\frac{14}{95}, -\frac{6}{95}, -\frac{12}{95}, \frac{11}{95}, \frac{8}{95}, -\frac{3}{19}, \frac{8}{95}, -\frac{1}{95}, \frac{2}{95})$ $+ \frac{3}{95}\sqrt{62}e^4 \otimes e_9 + \frac{3}{95}\sqrt{70}e^5 \otimes e_8 + \frac{6}{95}\sqrt{11}e^2 \otimes e_6$	{12389, 14678, 23457, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{443}\sqrt{9794}e^{12}, \frac{8}{443}\sqrt{913}e^{34}, \frac{2}{443}\sqrt{7055}e^{13} + \frac{2}{443}\sqrt{249}e^{25}$	$(\frac{9}{443}, -\frac{79}{443}, -\frac{49}{443}, \frac{96}{443}, \frac{39}{443}, \frac{213}{443}, \frac{70}{443}, \frac{47}{443}, -\frac{40}{443})$ $+ \frac{2}{443}\sqrt{19090}e^4 \otimes e_7 + \frac{6}{443}\sqrt{1577}e^6 \otimes e_8$	{123469, 12458, 135789, 167, 23578, 2679, 346, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{3249}\sqrt{1186}e^{12}, \frac{8}{3249}\sqrt{31429}e^{34},$ $\frac{2}{3249}\sqrt{18383}e^{13} + \frac{2}{3249}\sqrt{269815}e^{25}$	$(\frac{35}{1083}, \frac{355}{3249}, -\frac{581}{3249}, \frac{710}{3249}, -\frac{277}{1083}, \frac{1315}{3249}, \frac{460}{3249}, \frac{43}{1083}, -\frac{476}{3249})$ $+ \frac{2}{1083}\sqrt{67009}e^6 \otimes e_8 + \frac{2}{3249}\sqrt{399682}e^2 \otimes e_5 + \frac{4}{1083}\sqrt{20755}e^4 \otimes e_9$	{1269, 15679, 23789, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{8}{181}\sqrt{111}e^{34}, \frac{2}{181}\sqrt{703}e^{13} + \frac{2}{181}\sqrt{1073}e^{25}$	$(\frac{39}{181}, \frac{39}{181}, -\frac{8}{181}, -\frac{27}{181}, -\frac{8}{181}, -\frac{35}{181}, \frac{78}{181}, -\frac{35}{181}, \frac{31}{181})$ $+ \frac{4}{181}\sqrt{518}e^1 \otimes e_6 + \frac{4}{181}\sqrt{962}e^2 \otimes e_8$	{12349, 125, 135789, 1478, 234567, 2679, 368, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{171}\sqrt{16926}e^{12}, \frac{1}{171}\sqrt{3813}e^{34},$ $\frac{1}{171}\sqrt{186}e^{13} + \frac{1}{114}\sqrt{465}e^{25}$	$(-\frac{15}{76}, \frac{17}{114}, \frac{17}{76}, -\frac{109}{684}, -\frac{7}{57}, \frac{115}{342}, -\frac{11}{228}, \frac{11}{171}, \frac{1}{38})$ $+ \frac{1}{171}\sqrt{4278}e^2 \otimes e_5 + \frac{1}{38}\sqrt{310}e^3 \otimes e_7 + \frac{5}{342}\sqrt{651}e^6 \otimes e_8$	{12346, 1238, 2478, 267}
93:12	$0, 0, 0, 0, 0, 0, \frac{5}{1251}\sqrt{12958}e^{12}, \frac{110}{1251}\sqrt{31}e^{34},$ $\frac{20}{1251}\sqrt{341}e^{13} + \frac{5}{417}\sqrt{682}e^{25}$	$(-\frac{140}{1251}, -\frac{151}{1251}, \frac{484}{1251}, -\frac{85}{1251}, \frac{55}{139}, -\frac{280}{1251}, -\frac{97}{417}, \frac{133}{1251}, \frac{344}{1251})$ $+ \frac{5}{1251}\sqrt{27094}e^5 \otimes e_6 + \frac{5}{417}\sqrt{4526}e^3 \otimes e_7$	{12345, 12358, 145789, 1579, 24578, 257, 3459, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{465}e^{12}, \frac{3}{64}\sqrt{62}e^{34}, \frac{1}{64}\sqrt{62}e^{13} + \frac{1}{64}\sqrt{465}e^{25}$	$(-\frac{1}{128}, -\frac{9}{64}, \frac{13}{64}, -\frac{9}{32}, \frac{43}{128}, \frac{13}{32}, -\frac{19}{128}, -\frac{5}{64}, \frac{25}{128})$ $+ \frac{1}{32}\sqrt{310}e^6 \otimes e_8 + \frac{1}{64}\sqrt{1426}e^5 \otimes e_7 + \frac{1}{64}\sqrt{930}e^3 \otimes e_4$	{12458, 1478, 24789, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{10855}e^{12}, \frac{2}{659}\sqrt{13026}e^{34},$ $\frac{2}{659}\sqrt{26553}e^{13} + \frac{2}{659}\sqrt{6513}e^{25}$	$(-\frac{149}{659}, -\frac{29}{659}, \frac{156}{659}, -\frac{3}{659}, \frac{36}{659}, \frac{341}{659}, -\frac{178}{659}, \frac{153}{659}, \frac{7}{659})$ $+ \frac{2}{659}\sqrt{44422}e^6 \otimes e_9 + \frac{2}{659}\sqrt{53106}e^3 \otimes e_7$	{123456, 123568, 145789, 1579, 245678, 2567, 3459, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{1299}\sqrt{12305}e^{12}, \frac{2}{1299}\sqrt{119305}e^{34},$ $\frac{1}{1299}\sqrt{41730}e^{13} + \frac{1}{1299}\sqrt{210790}e^{25}$	$(\frac{2}{1299}, -\frac{78}{433}, \frac{101}{433}, -\frac{299}{1299}, \frac{539}{1299}, \frac{49}{433}, -\frac{232}{1299}, \frac{4}{1299}, \frac{305}{1299})$ $+ \frac{1}{1299}\sqrt{602410}e^3 \otimes e_7 + \frac{1}{1299}\sqrt{630230}e^5 \otimes e_8$	{123689, 12389, 14678, 1478, 246789, 24789, 368, 38}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{582}\sqrt{12773}e^{12}, \frac{1}{582}\sqrt{78566}e^{34},$ $\frac{1}{582}\sqrt{1205}e^{13} + \frac{1}{582}\sqrt{14219}e^{25}$	$(\frac{65}{1164}, \frac{71}{776}, -\frac{31}{388}, -\frac{83}{1164}, -\frac{269}{2328}, \frac{275}{776}, \frac{343}{2328}, -\frac{44}{291}, -\frac{7}{291})$ $+ \frac{1}{1164}\sqrt{160265}e^2 \otimes e_5 + \frac{1}{1164}\sqrt{160265}e^6 \otimes e_7 + \frac{1}{1164}\sqrt{201958}e^1 \otimes e_8$	{12346, 13457, 2478, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{18}{929}\sqrt{161}e^{12}, \frac{36}{929}\sqrt{34}e^{34}, \frac{18}{929}\sqrt{87}e^{13} + \frac{18}{929}\sqrt{285}e^{25}$	$(-\frac{1}{929}, -\frac{69}{929}, \frac{24}{929}, \frac{185}{929}, \frac{92}{929}, -\frac{231}{929}, -\frac{70}{929}, \frac{209}{929}, \frac{23}{929})$ $+ \frac{36}{929}\sqrt{62}e^4 \otimes e_9 + \frac{72}{929}\sqrt{19}e^2 \otimes e_6 + \frac{72}{929}\sqrt{19}e^5 \otimes e_7$	{12458, 14678, 279, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{10}{361}\sqrt{97}e^{12}, \frac{2}{361}\sqrt{582}e^{34},$ $\frac{2}{361}\sqrt{2037}e^{13} + \frac{2}{361}\sqrt{10185}e^{25}$	$(-\frac{7}{361}, -\frac{91}{361}, \frac{12}{361}, \frac{33}{361}, \frac{96}{361}, \frac{199}{361}, -\frac{98}{361}, \frac{45}{361}, \frac{5}{361})$ $+ \frac{18}{361}\sqrt{194}e^5 \otimes e_7 + \frac{8}{361}\sqrt{970}e^6 \otimes e_9$	{123456, 123568, 13467, 13678, 23479, 23789, 3459, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{147}\sqrt{1630}e^{12}, \frac{2}{441}\sqrt{9454}e^{34},$ $\frac{1}{441}\sqrt{25591}e^{13} + \frac{1}{441}\sqrt{6683}e^{25}$	$(-\frac{41}{294}, \frac{52}{441}, \frac{5}{882}, \frac{307}{882}, -\frac{37}{147}, \frac{40}{441}, -\frac{19}{882}, \frac{52}{147}, -\frac{59}{441})$ $+ \frac{1}{147}\sqrt{8313}e^4 \otimes e_7 + \frac{1}{63}\sqrt{1141}e^2 \otimes e_5$	{12468, 1248, 1567, 157, 23678, 2378, 345, 3456}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{12}{185}\sqrt{41}e^{34}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{533}e^{25}$	$(\frac{51}{185}, \frac{27}{185}, -\frac{16}{185}, -\frac{3}{37}, \frac{8}{185}, -\frac{11}{37}, \frac{78}{185}, -\frac{31}{185}, \frac{7}{37})$ $+ \frac{4}{185}\sqrt{779}e^2 \otimes e_6 + \frac{4}{185}\sqrt{902}e^1 \otimes e_8$	{12345, 129, 13467, 15679, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{12}, \frac{3}{211}\sqrt{1407}e^{34}, \frac{3}{211}\sqrt{210}e^{13} + \frac{3}{422}\sqrt{861}e^{25}$	$(-\frac{123}{844}, -\frac{21}{422}, \frac{213}{844}, -\frac{177}{844}, \frac{33}{211}, \frac{207}{422}, -\frac{165}{844}, \frac{9}{211}, \frac{45}{422})$ $+ \frac{3}{422}\sqrt{6783}e^6 \otimes e_8 + \frac{3}{422}\sqrt{9030}e^3 \otimes e_7$	{12346, 1238, 14789, 1679, 2478, 267, 3469, 389}
93:12	$0, 0, 0, 0, 0, 0, \frac{10}{3561}\sqrt{737}e^{12}, \frac{40}{3561}\sqrt{67}e^{34},$ $\frac{10}{3561}\sqrt{623}e^{13} + \frac{10}{3561}\sqrt{1149}e^{25}$	$(\frac{151}{3561}, -\frac{39}{1187}, -\frac{184}{3561}, \frac{17}{3561}, \frac{28}{1187}, \frac{265}{3561}, \frac{34}{3561}, -\frac{167}{3561}, -\frac{11}{1187})$ $+ \frac{20}{3561}\sqrt{206}e^4 \otimes e_9 + \frac{220}{3561}\sqrt{2}e^5 \otimes e_7 + \frac{40}{3561}\sqrt{94}e^2 \otimes e_8$	{14678, 1478, 2679, 279}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{1403}\sqrt{439206}e^{12}, \frac{3}{1403}\sqrt{6186}e^{34},$ $\frac{1}{1403}\sqrt{476322}e^{13} + \frac{14}{1403}\sqrt{1031}e^{25}$	$(-\frac{294}{1403}, \frac{35}{1403}, \frac{577}{1403}, -\frac{454}{1403}, \frac{248}{1403}, \frac{772}{1403}, -\frac{259}{1403}, \frac{123}{1403}, \frac{283}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^3 \otimes e_4 + \frac{2}{1403}\sqrt{320641}e^6 \otimes e_7$	{1236, 124569, 1357, 1479, 23579, 247, 369, 456}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{533}e^{12}, \frac{12}{185}\sqrt{41}e^{34}, \frac{2}{185}\sqrt{41}e^{13} + \frac{2}{185}\sqrt{2337}e^{25}$	$(\frac{7}{185}, -\frac{49}{185}, -\frac{16}{185}, \frac{73}{185}, \frac{8}{37}, \frac{21}{185}, -\frac{42}{185}, \frac{57}{185}, -\frac{9}{185})$ $+ \frac{4}{185}\sqrt{779}e^5 \otimes e_7 + \frac{4}{185}\sqrt{902}e^4 \otimes e_9$	{12345, 123456, 13467, 1347, 236789, 23789, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{1411}\sqrt{155595}e^{12}, \frac{3}{1411}\sqrt{37310}e^{34},$ $\frac{3}{1411}\sqrt{2870}e^{13} + \frac{16}{1411}\sqrt{615}e^{25}$	$(\frac{11}{83}, -\frac{235}{1411}, -\frac{151}{1411}, \frac{567}{1411}, \frac{271}{1411}, -\frac{428}{1411}, -\frac{48}{1411}, \frac{416}{1411}, \frac{36}{1411})$ $+ \frac{1}{1411}\sqrt{702330}e^1 \otimes e_6 + \frac{4}{1411}\sqrt{510}e^4 \otimes e_7$	{1234, 124589, 13578, 179, 2356789, 267, 3469, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{451}\sqrt{435}e^{12}, \frac{12}{451}\sqrt{102}e^{34}, \frac{18}{451}\sqrt{43}e^{13} + \frac{6}{451}\sqrt{435}e^{25}$	$(\frac{23}{451}, -\frac{1}{41}, \frac{32}{451}, -\frac{97}{451}, \frac{6}{41}, \frac{39}{451}, \frac{12}{451}, -\frac{65}{451}, \frac{5}{41})$ $+ \frac{12}{451}\sqrt{129}e^5 \otimes e_7 + \frac{4}{451}\sqrt{5}e^2 \otimes e_8$	{125, 1256, 14678, 1478, 2679, 279, 45689, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{220}{677}e^{12}, \frac{20}{677}\sqrt{197}e^{34}, \frac{40}{677}\sqrt{38}e^{13} + \frac{40}{677}\sqrt{57}e^{25}$	$(\frac{97}{677}, \frac{90}{677}, \frac{45}{677}, -\frac{155}{677}, \frac{52}{677}, -\frac{148}{677}, \frac{187}{677}, -\frac{110}{677}, \frac{142}{677})$ $+ \frac{20}{677}\sqrt{214}e^5 \otimes e_6 + \frac{20}{677}\sqrt{373}e^2 \otimes e_8 + \frac{40}{677}\sqrt{6}e^3 \otimes e_4$	{135789, 14678, 368, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{6513}e^{12}, \frac{2}{659}\sqrt{13026}e^{34},$ $\frac{2}{659}\sqrt{26553}e^{13} + \frac{2}{659}\sqrt{10855}e^{25}$	$(\frac{143}{659}, -\frac{29}{659}, -\frac{162}{659}, \frac{315}{659}, \frac{10}{659}, \frac{191}{659}, \frac{114}{659}, \frac{153}{659}, -\frac{19}{659})$ $+ \frac{2}{659}\sqrt{44422}e^1 \otimes e_6 + \frac{2}{659}\sqrt{53106}e^4 \otimes e_9$	{12345, 129, 1347, 1579, 236789, 245678, 35689, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{6870}e^{12}, \frac{1}{353}\sqrt{35266}e^{34},$ $\frac{1}{353}\sqrt{2290}e^{13} + \frac{2}{353}\sqrt{9389}e^{25}$	$(\frac{52}{353}, -\frac{25}{353}, \frac{77}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{42}{353}, \frac{27}{353}, -\frac{75}{353}, \frac{129}{353})$ $+ \frac{2}{353}\sqrt{22213}e^5 \otimes e_8 + \frac{3}{353}\sqrt{5954}e^3 \otimes e_4$	{1246789, 124789, 1368, 138, 23689, 2389, 4678, 478}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{99}\sqrt{2274}e^{12}, \frac{1}{891}\sqrt{9854}e^{34},$ $\frac{1}{297}\sqrt{2274}e^{13} + \frac{1}{891}\sqrt{12886}e^{25}$	$(-\frac{68}{297}, \frac{202}{891}, \frac{229}{891}, -\frac{50}{297}, -\frac{59}{297}, \frac{377}{891}, -\frac{2}{891}, \frac{79}{891}, \frac{25}{891})$ $+ \frac{1}{891}\sqrt{153874}e^3 \otimes e_4 + \frac{1}{891}\sqrt{235738}e^2 \otimes e_5 + \frac{1}{891}\sqrt{235738}e^6 \otimes e_7$	{12368, 13578, 2478, 4568}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{66}e^{12}, \frac{1}{64}\sqrt{770}e^{34}, \frac{1}{64}\sqrt{506}e^{13} + \frac{1}{32}\sqrt{66}e^{25}$	$(-\frac{21}{128}, -\frac{5}{64}, \frac{13}{128}, \frac{9}{32}, \frac{1}{64}, \frac{7}{64}, -\frac{31}{128}, \frac{49}{128}, -\frac{1}{16})$ $+ \frac{1}{64}\sqrt{1254}e^3 \otimes e_7 + \frac{1}{64}\sqrt{1254}e^4 \otimes e_9$	{12345, 123456, 15679, 1579, 245678, 24578, 35689, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{791}\sqrt{9541}e^{12}, \frac{12}{791}\sqrt{235}e^{34},$ $\frac{2}{791}\sqrt{7473}e^{13} + \frac{2}{791}\sqrt{3243}e^{25}$	$(\frac{19}{791}, -\frac{71}{791}, \frac{6}{113}, -\frac{117}{791}, \frac{132}{791}, \frac{155}{791}, -\frac{52}{791}, -\frac{75}{791}, \frac{61}{791})$ $+ \frac{2}{791}\sqrt{14946}e^1 \otimes e_8 + \frac{2}{791}\sqrt{14946}e^3 \otimes e_7 + \frac{4}{791}\sqrt{1081}e^6 \otimes e_9$	{12346, 179, 24678, 389}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{1089}\sqrt{4294}e^{12}, \frac{4}{1089}\sqrt{9379}e^{34},$ $\frac{2}{1089}\sqrt{21583}e^{13} + \frac{10}{1089}\sqrt{113}e^{25}$	$(-\frac{25}{363}, \frac{43}{1089}, -\frac{65}{1089}, \frac{194}{1089}, -\frac{61}{363}, \frac{355}{1089}, -\frac{32}{1089}, \frac{43}{363}, -\frac{140}{1089})$ $+ \frac{10}{363}\sqrt{226}e^4 \otimes e_7 + \frac{2}{363}\sqrt{3503}e^6 \otimes e_8 + \frac{4}{1089}\sqrt{8023}e^2 \otimes e_5$	{1248, 1567, 2378, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{347}\sqrt{1554e^{12}}, \frac{1}{347}\sqrt{24346e^{34}},$ $\frac{1}{347}\sqrt{26418e^{13}} + \frac{1}{347}\sqrt{1554e^{25}}$	$(-\frac{9}{347}, \frac{45}{347}, \frac{96}{347}, -\frac{163}{347}, \frac{42}{347}, \frac{192}{347}, \frac{36}{347}, -\frac{67}{347}, \frac{87}{347})$ $+\frac{1}{347}\sqrt{80290e^3} \otimes e_4 + \frac{3}{347}\sqrt{8806e^6} \otimes e_8$	{12378, 1245789, 1358, 1489, 23589, 248, 3789, 4578}
93:12	$0, 0, 0, 0, 0, 0, \frac{36}{3209}\sqrt{10e^{12}}, \frac{18}{3209}\sqrt{3505e^{34}},$ $\frac{18}{3209}\sqrt{1965e^{13}} + \frac{72}{3209}\sqrt{195e^{25}}$	$(-\frac{105}{3209}, -\frac{336}{3209}, \frac{138}{3209}, \frac{843}{3209}, \frac{369}{3209}, -\frac{672}{3209}, -\frac{441}{3209}, \frac{981}{3209}, \frac{33}{3209})$ $+\frac{18}{3209}\sqrt{3565e^5} \otimes e_7 + \frac{36}{3209}\sqrt{1190e^3} \otimes e_6 + \frac{72}{3209}\sqrt{395e^4} \otimes e_9$	{12679, 1569, 24568, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{14}{963}\sqrt{489e^{12}}, \frac{28}{107}e^{34}, \frac{14}{963}\sqrt{273e^{13}} + \frac{14}{963}\sqrt{381e^{25}}$	$(\frac{161}{963}, \frac{203}{963}, -\frac{112}{963}, -\frac{7}{321}, \frac{28}{107}, \frac{343}{963}, -\frac{14}{321}, -\frac{133}{963}, \frac{49}{963})$ $+\frac{224}{963}\sqrt{3e^6} \otimes e_9 + \frac{28}{963}\sqrt{219e^5} \otimes e_7 + \frac{28}{963}\sqrt{246e^1} \otimes e_8$	{123456, 13467, 23789, 3589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{1457}\sqrt{104122e^{12}}, \frac{1}{1457}\sqrt{644502e^{34}},$ $\frac{2}{1457}\sqrt{3295e^{13}} + \frac{10}{1457}\sqrt{659e^{25}}$	$(-\frac{150}{1457}, -\frac{110}{1457}, \frac{246}{1457}, \frac{399}{1457}, \frac{206}{1457}, -\frac{413}{1457}, -\frac{260}{1457}, \frac{645}{1457}, \frac{96}{1457})$ $+\frac{1}{1457}\sqrt{749942e^3} \otimes e_6 + \frac{2}{1457}\sqrt{241194e^4} \otimes e_7$	{123459, 12468, 13789, 1567, 2378, 25679, 345, 4689}
93:12	$0, 0, 0, 0, 0, 0, \frac{15}{1531}\sqrt{1486e^{12}}, \frac{13}{1531}\sqrt{1486e^{34}},$ $\frac{1}{1531}\sqrt{646410e^{13}} + \frac{4}{1531}\sqrt{15603e^{25}}$	$(\frac{282}{1531}, \frac{99}{1531}, \frac{141}{1531}, -\frac{602}{1531}, \frac{324}{1531}, \frac{156}{1531}, \frac{381}{1531}, -\frac{461}{1531}, \frac{423}{1531})$ $+\frac{1}{1531}\sqrt{875254e^3} \otimes e_4 + \frac{2}{1531}\sqrt{291999e^1} \otimes e_8$	{2356789, 235789, 24678, 2478, 3689, 389, 4568, 458}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{781}\sqrt{4321e^{12}}, \frac{4}{781}\sqrt{6989e^{34}},$ $\frac{56}{781}\sqrt{29e^{13}} + \frac{8}{781}\sqrt{2001e^{25}}$	$(\frac{125}{781}, \frac{102}{781}, \frac{3}{71}, -\frac{163}{781}, \frac{56}{71}, -\frac{16}{71}, \frac{227}{781}, -\frac{130}{71}, \frac{158}{781})$ $+\frac{4}{781}\sqrt{13021e^2} \otimes e_8 + \frac{4}{781}\sqrt{7366e^5} \otimes e_6$	{123469, 125, 135789, 14678, 23457, 2679, 368, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1221e^{12}}, \frac{1}{34}\sqrt{407e^{34}}, \frac{1}{68}\sqrt{814e^{13}} + \frac{1}{68}\sqrt{1221e^{25}}$	$(\frac{7}{136}, \frac{11}{34}, \frac{11}{68}, -\frac{13}{34}, -\frac{15}{136}, \frac{9}{68}, \frac{3}{8}, -\frac{15}{68}, \frac{29}{136})$ $+\frac{1}{34}\sqrt{851e^2} \otimes e_8 + \frac{1}{68}\sqrt{962e^3} \otimes e_4$	{1356789, 135789, 14678, 1478, 368, 38, 45689, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{16}{1411}\sqrt{615e^{12}}, \frac{3}{1411}\sqrt{37310e^{34}},$ $\frac{3}{1411}\sqrt{2870e^{13}} + \frac{2}{1411}\sqrt{155595e^{25}}$	$(\frac{250}{1411}, -\frac{235}{1411}, -\frac{151}{1411}, -\frac{130}{1411}, \frac{334}{1411}, \frac{42}{15}, \frac{15}{83}, \frac{1411}{1411}, -\frac{281}{1411}, \frac{99}{1411})$ $+\frac{1}{1411}\sqrt{702330e^6} \otimes e_9 + \frac{41}{1411}\sqrt{510e^5} \otimes e_8$	{1234567, 124789, 1368, 159, 2389, 256, 34579, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{75}\sqrt{55e^{12}}, \frac{1}{150}\sqrt{715e^{34}}, \frac{1}{150}\sqrt{3410e^{13}} + \frac{1}{75}\sqrt{715e^{25}}$	$(-\frac{7}{60}, -\frac{1}{12}, \frac{1}{5}, -\frac{1}{6}, \frac{1}{6}, \frac{9}{20}, -\frac{1}{5}, \frac{1}{30}, \frac{1}{12})$ $+\frac{1}{150}\sqrt{4345e^5} \otimes e_7 + \frac{1}{150}\sqrt{4730e^3} \otimes e_4 + \frac{2}{75}\sqrt{385e^6} \otimes e_9$	{12479, 1459, 2456, 467}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{1657}\sqrt{2355e^{12}}, \frac{12}{1657}\sqrt{314e^{34}},$ $\frac{1}{1657}\sqrt{485130e^{13}} + \frac{12}{1657}\sqrt{157e^{25}}$	$(\frac{104}{1657}, \frac{58}{1657}, \frac{52}{1657}, -\frac{419}{1657}, \frac{98}{1657}, \frac{627}{1657}, \frac{162}{1657}, -\frac{367}{1657}, \frac{156}{1657})$ $+\frac{1}{1657}\sqrt{464406e^3} \otimes e_4 + \frac{1}{1657}\sqrt{475710e^6} \otimes e_9 + \frac{3}{1657}\sqrt{56206e^1} \otimes e_8$	{23789, 245678, 3589, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13e^{12}}, \frac{4}{29}\sqrt{26e^{34}}, \frac{2}{29}\sqrt{65e^{13}} + \frac{2}{29}\sqrt{39e^{25}}$	$(\frac{15}{29}, -\frac{1}{29}, -\frac{8}{29}, -\frac{3}{29}, \frac{8}{29}, \frac{5}{29}, \frac{14}{29}, -\frac{11}{29}, \frac{7}{29})$ $+\frac{4}{29}\sqrt{78e^1} \otimes e_8$	{1234, 12346, 12569, 1259, 134567, 13457, 1679, 179, 2356789, 235789, 24678, 2478, 3689, 389, 4568, 458}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{743}\sqrt{781e^{12}}, \frac{4}{743}\sqrt{4899e^{34}},$ $\frac{2}{743}\sqrt{6035e^{13}} + \frac{18}{743}\sqrt{213e^{25}}$	$(\frac{61}{743}, \frac{113}{743}, -\frac{116}{743}, \frac{87}{743}, -\frac{168}{743}, \frac{75}{743}, \frac{174}{743}, -\frac{29}{743}, -\frac{55}{743})$ $+\frac{24}{743}\sqrt{142e^4} \otimes e_9 + \frac{4}{743}\sqrt{6745e^2} \otimes e_8$	{1356789, 135789, 14678, 1478, 234567, 23457, 2679, 279}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{1398e^{12}}, \frac{2}{539}\sqrt{50794e^{34}},$ $\frac{2}{539}\sqrt{26795e^{13}} + \frac{4}{539}\sqrt{12815e^{25}}$	$(\frac{208}{539}, -\frac{127}{539}, -\frac{16}{539}, \frac{131}{539}, \frac{29}{49}, \frac{87}{539}, \frac{81}{539}, -\frac{3}{11}, \frac{192}{539})$ $+\frac{4}{539}\sqrt{26329e^5} \otimes e_8$	{1236789, 123789, 12567, 1257, 134569, 13459, 1468, 148, 2345, 23456, 24689, 2489, 3678, 378, 5679, 579}
93:12	$0, 0, 0, 0, 0, 0, \frac{10}{479}\sqrt{930e^{12}}, \frac{50}{479}\sqrt{6e^{34}}, \frac{10}{479}\sqrt{235e^{13}} + \frac{40}{479}\sqrt{10e^{25}}$	$(-\frac{96}{479}, \frac{107}{479}, \frac{60}{479}, \frac{13}{479}, -\frac{143}{479}, \frac{261}{479}, \frac{11}{479}, \frac{73}{479}, -\frac{36}{479})$ $+\frac{10}{479}\sqrt{1090e^2} \otimes e_5 + \frac{1}{479}\sqrt{1090e^6} \otimes e_7$	{12468, 126, 14578, 157, 2347, 2378, 3456, 3568}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{3601}\sqrt{96915e^{12}}, \frac{2}{3601}\sqrt{444318e^{34}},$ $\frac{2}{3601}\sqrt{51191e^{13}} + \frac{6}{3601}\sqrt{47215e^{25}}$	$(\frac{223}{3601}, -\frac{735}{3601}, -\frac{476}{3601}, \frac{57}{277}, \frac{482}{3601}, \frac{1259}{3601}, -\frac{512}{3601}, \frac{265}{3601}, -\frac{253}{3601})$ $+\frac{14}{3601}\sqrt{10366e^5} \otimes e_7 + \frac{4}{3601}\sqrt{164010e^4} \otimes e_9 + \frac{8}{3601}\sqrt{29323e^6} \otimes e_8$	{12458, 1478, 2679, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30e^{12}}, \frac{3}{38}\sqrt{3e^{34}}, \frac{9}{38}\sqrt{2e^{13}} + \frac{3}{38}\sqrt{30e^{25}}$	$(-\frac{7}{76}, \frac{13}{38}, \frac{8}{19}, -\frac{11}{38}, -\frac{1}{76}, -\frac{7}{19}, \frac{1}{4}, \frac{5}{38}, \frac{25}{76})$ $+\frac{3}{38}\sqrt{11e^2} \otimes e_6 + \frac{9}{38}\sqrt{10e^3} \otimes e_4$	{12358, 12489, 13678, 1456789, 23789, 24578, 35689, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{1259}\sqrt{191530e^{12}}, \frac{2}{1259}\sqrt{2685e^{34}},$ $\frac{5}{1259}\sqrt{11814e^{13}} + \frac{18}{1259}\sqrt{895e^{25}}$	$(-\frac{125}{1259}, \frac{379}{1259}, -\frac{12}{1259}, \frac{153}{1259}, -\frac{516}{1259}, \frac{758}{1259}, \frac{254}{1259}, \frac{141}{1259}, -\frac{137}{1259})$ $+\frac{1}{1259}\sqrt{1093690e^6} \otimes e_9 + \frac{1}{1259}\sqrt{896790e^2} \otimes e_5$	{1249, 1289, 14579, 15789, 234789, 2379, 34589, 359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{1403}\sqrt{439206}e^{12}, \frac{3}{1403}\sqrt{6186}e^{34},$ $\frac{1}{1403}\sqrt{476322}e^{13} + \frac{14}{1403}\sqrt{1031}e^{25}$	$(-\frac{294}{1403}, \frac{657}{1403}, \frac{577}{1403}, -\frac{454}{1403}, -\frac{374}{1403}, \frac{150}{1403}, \frac{363}{1403}, \frac{123}{1403}, \frac{283}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^3 \otimes e_4 + \frac{2}{1403}\sqrt{320641}e^2 \otimes e_5$	{123, 1236, 13567, 1357, 2467, 247, 45, 456}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{893}\sqrt{1011}e^{12}, \frac{12}{893}\sqrt{129}e^{34}, \frac{8}{893}\sqrt{201}e^{13} + \frac{60}{893}\sqrt{2}e^{25}$	$(\frac{1}{893}, \frac{32}{893}, -\frac{49}{893}, \frac{3}{47}, -\frac{80}{893}, \frac{70}{893}, \frac{33}{893}, \frac{8}{893}, -\frac{48}{893})$ $+\frac{4}{893}\sqrt{1122}e^4 \otimes e_7 + \frac{4}{893}\sqrt{1347}e^2 \otimes e_8$	{123469, 12349, 1356789, 135789, 2679, 279, 45689, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{4462}e^{12}, \frac{2}{275}\sqrt{2910}e^{34}, \frac{3}{275}\sqrt{679}e^{13} + \frac{1}{275}\sqrt{291}e^{25}$	$(-\frac{73}{550}, \frac{28}{275}, -\frac{9}{550}, \frac{177}{550}, -\frac{69}{275}, \frac{56}{275}, -\frac{17}{550}, \frac{84}{275}, -\frac{41}{275})$ $+\frac{1}{275}\sqrt{24153}e^4 \otimes e_7 + \frac{3}{275}\sqrt{2037}e^2 \otimes e_5 + \frac{8}{275}\sqrt{97}e^6 \otimes e_9$	{12468, 1567, 23678, 3456}
93:12	$0, 0, 0, 0, 0, 0, \frac{16}{237}\sqrt{5}e^{12}, \frac{8}{237}\sqrt{106}e^{34}, \frac{8}{237}\sqrt{30}e^{13} + \frac{8}{237}\sqrt{94}e^{25}$	$(-\frac{4}{237}, -\frac{12}{79}, \frac{8}{79}, -\frac{32}{237}, \frac{56}{237}, \frac{28}{79}, -\frac{40}{237}, -\frac{8}{237}, \frac{20}{237})$ $+\frac{16}{237}\sqrt{41}e^5 \otimes e_8 + \frac{8}{237}\sqrt{142}e^3 \otimes e_7 + \frac{8}{79}\sqrt{14}e^6 \otimes e_9$	{123456, 1579, 2567, 3459}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{5}{56}\sqrt{14}e^{34}, \frac{1}{56}\sqrt{182}e^{13} + \frac{1}{28}\sqrt{70}e^{25}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+\frac{1}{14}\sqrt{21}e^5 \otimes e_6 - \frac{1}{56}\sqrt{602}e^4 \otimes e_9 + \frac{1}{8}\sqrt{10}e^1 \otimes e_8$	{12345, 1269, 13467, 1579, 236789, 24578, 3589, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{5}{56}\sqrt{14}e^{34}, \frac{1}{56}\sqrt{182}e^{13} + \frac{1}{28}\sqrt{70}e^{25}$	$(\frac{1}{4}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+\frac{1}{14}\sqrt{21}e^5 \otimes e_6 + \frac{1}{56}\sqrt{602}e^4 \otimes e_9 + \frac{1}{8}\sqrt{10}e^1 \otimes e_8$	{12345, 1269, 13467, 1579, 236789, 24578, 3589, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{40}{677}\sqrt{57}e^{12}, \frac{20}{677}\sqrt{197}e^{34}, \frac{40}{677}\sqrt{38}e^{13} + \frac{220}{677}e^{25}$	$(-\frac{10}{677}, \frac{90}{677}, \frac{45}{677}, -\frac{155}{677}, -\frac{55}{677}, \frac{280}{677}, \frac{80}{677}, -\frac{110}{677}, \frac{35}{677})$ $+\frac{20}{677}\sqrt{214}e^6 \otimes e_7 + \frac{20}{677}\sqrt{373}e^2 \otimes e_8 + \frac{40}{677}\sqrt{6}e^3 \otimes e_4$	{135789, 1478, 368, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{443}\sqrt{249}e^{12}, \frac{8}{443}\sqrt{913}e^{34}, \frac{2}{443}\sqrt{7055}e^{13} + \frac{2}{443}\sqrt{9794}e^{25}$	$(\frac{124}{443}, -\frac{79}{443}, -\frac{49}{443}, \frac{37}{443}, \frac{154}{443}, -\frac{129}{443}, \frac{45}{443}, -\frac{12}{443}, \frac{75}{443})$ $+\frac{2}{443}\sqrt{19090}e^5 \otimes e_8 + \frac{6}{443}\sqrt{1577}e^4 \otimes e_6$	{123689, 1256, 134579, 1478, 23457, 24789, 368, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{345}e^{12}, \frac{6}{79}\sqrt{46}e^{34}, \frac{2}{79}\sqrt{299}e^{13} + \frac{2}{79}\sqrt{345}e^{25}$	$(\frac{7}{79}, -\frac{21}{79}, \frac{4}{79}, \frac{23}{79}, \frac{32}{79}, -\frac{23}{79}, -\frac{14}{79}, \frac{27}{79}, \frac{11}{79})$ $+\frac{2}{79}\sqrt{874}e^5 \otimes e_7 + \frac{8}{79}\sqrt{46}e^4 \otimes e_6$	{12458, 1256, 1478, 167, 24789, 2679, 4589, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{427}\sqrt{210}e^{12}, \frac{12}{427}\sqrt{7}e^{34}, \frac{1}{427}\sqrt{723}e^{13} + \frac{6}{427}\sqrt{14}e^{25}$	$(\frac{11}{427}, \frac{4}{427}, -\frac{17}{427}, \frac{18}{427}, -\frac{10}{427}, -\frac{13}{427}, \frac{15}{427}, \frac{1}{427}, -\frac{6}{427})$ $+\frac{1}{427}\sqrt{1185}e^2 \otimes e_8 + \frac{1}{427}\sqrt{933}e^4 \otimes e_7 + \frac{3}{427}\sqrt{29}e^5 \otimes e_6$	{123469, 135789, 2679, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{35}e^{12}, \frac{2}{41}\sqrt{77}e^{34}, \frac{6}{41}\sqrt{7}e^{13} + \frac{2}{41}\sqrt{105}e^{25}$	$(\frac{8}{41}, \frac{1}{41}, \frac{2}{41}, -\frac{7}{41}, \frac{9}{41}, -\frac{13}{41}, \frac{9}{41}, -\frac{5}{41}, \frac{10}{41})$ $+\frac{2}{41}\sqrt{119}e^2 \otimes e_6 + \frac{4}{41}\sqrt{35}e^5 \otimes e_8$	{12389, 125, 1345679, 14678, 23457, 24789, 368, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{176}\sqrt{5035}e^{12}, \frac{1}{88}\sqrt{371}e^{34}, \frac{3}{176}\sqrt{318}e^{13} + \frac{1}{176}\sqrt{5035}e^{25}$	$(-\frac{1}{32}, -\frac{3}{88}, \frac{41}{176}, -\frac{3}{44}, \frac{83}{352}, -\frac{59}{176}, -\frac{23}{443}, \frac{29}{176}, \frac{71}{352})$ $+\frac{1}{176}\sqrt{1378}e^3 \otimes e_4 + \frac{1}{88}\sqrt{1961}e^2 \otimes e_6 + \frac{1}{88}\sqrt{1961}e^5 \otimes e_7$	{12458, 14678, 24789, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{422}\sqrt{861}e^{12}, \frac{3}{211}\sqrt{1407}e^{34}, \frac{3}{211}\sqrt{210}e^{13} + \frac{9}{422}\sqrt{406}e^{25}$	$(\frac{23}{211}, -\frac{21}{422}, -\frac{217}{844}, \frac{253}{844}, -\frac{83}{844}, \frac{207}{422}, \frac{25}{422}, \frac{9}{211}, -\frac{125}{844})$ $+\frac{3}{422}\sqrt{6783}e^6 \otimes e_8 + \frac{3}{422}\sqrt{9030}e^4 \otimes e_9$	{1234567, 12679, 1346, 1569, 2389, 2458, 35789, 478}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{3265}\sqrt{9169}e^{12}, \frac{2}{3265}\sqrt{182861}e^{34},$ $\frac{2}{3265}\sqrt{16262}e^{13} + \frac{2}{3265}\sqrt{135113}e^{25}$	$(\frac{112}{3265}, -\frac{115}{653}, -\frac{117}{3265}, \frac{341}{3265}, \frac{114}{653}, \frac{259}{3265}, -\frac{463}{3265}, \frac{224}{3265}, -\frac{1}{653})$ $+\frac{2}{3265}\sqrt{197047}e^4 \otimes e_9 + \frac{2}{653}\sqrt{5363}e^3 \otimes e_7 + \frac{4}{3265}\sqrt{47229}e^5 \otimes e_8$	{12345, 123456, 15679, 1579}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{1793}\sqrt{12831}e^{12}, \frac{1}{1793}\sqrt{563342}e^{34},$ $\frac{2}{1793}\sqrt{125255}e^{13} + \frac{6}{1793}\sqrt{9165}e^{25}$	$(-\frac{6}{163}, \frac{74}{1793}, \frac{46}{1793}, \frac{591}{1793}, -\frac{94}{1793}, -\frac{565}{1793}, \frac{8}{1793}, \frac{637}{1793}, -\frac{20}{1793})$ $+\frac{13}{1793}\sqrt{5358}e^3 \otimes e_6 + \frac{2}{1793}\sqrt{267618}e^4 \otimes e_9$	{123457, 12679, 134, 1569, 2389, 24568, 35789, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{2}e^{34}, \frac{6}{17}\sqrt{3}e^{13} + \frac{6}{17}\sqrt{5}e^{25}$	$(\frac{1}{17}, -\frac{7}{17}, \frac{4}{17}, \frac{1}{17}, \frac{12}{17}, \frac{3}{17}, -\frac{6}{17}, \frac{5}{17}, \frac{5}{17})$ $+\frac{6}{17}\sqrt{14}e^5 \otimes e_7$	{124568, 12458, 125, 1256, 14678, 1478, 167, 17, 246789, 24789, 2679, 279, 45689, 4589, 569, 59}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{350}\sqrt{21918}e^{12}, \frac{3}{350}\sqrt{1405}e^{34},$ $\frac{1}{700}\sqrt{3934}e^{13} + \frac{1}{350}\sqrt{5339}e^{25}$	$(-\frac{87}{700}, \frac{173}{1400}, -\frac{3}{100}, \frac{173}{700}, -\frac{389}{1400}, \frac{561}{1400}, -\frac{1}{1400}, \frac{38}{175}, -\frac{27}{175})$ $+\frac{1}{700}\sqrt{112962}e^4 \otimes e_9 + \frac{1}{700}\sqrt{122797}e^2 \otimes e_5 + \frac{1}{700}\sqrt{122797}e^6 \otimes e_7$	{123689, 135789, 279, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12}, \frac{12}{131}\sqrt{37}e^{34}, \frac{2}{131}\sqrt{851}e^{13} + \frac{6}{131}\sqrt{74}e^{25}$	$(\frac{8}{131}, -\frac{33}{131}, \frac{2}{131}, \frac{49}{131}, \frac{43}{131}, -\frac{31}{131}, -\frac{25}{131}, \frac{51}{131}, \frac{10}{131})$ $+ \frac{2}{131}\sqrt{1702}e^5 \otimes e_6 + \frac{2}{131}\sqrt{2590}e^4 \otimes e_7$	{123469, 12458, 135789, 167, 23578, 2679, 346, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{232}{1927}e^{12}, \frac{8}{1927}\sqrt{939}e^{34}, \frac{24}{1927}\sqrt{78}e^{13} + \frac{56}{1927}\sqrt{6}e^{25}$	$(\frac{17}{1927}, \frac{74}{1927}, -\frac{81}{1927}, \frac{3}{47}, -\frac{138}{1927}, -\frac{32}{1927}, \frac{91}{1927}, \frac{42}{1927}, -\frac{64}{1927})$ $+ \frac{16}{1927}\sqrt{47}e^6 \otimes e_9 + \frac{72}{1927}\sqrt{13}e^2 \otimes e_8 + \frac{8}{1927}\sqrt{906}e^4 \otimes e_7$	{123469, 1356789, 2679, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{4}{1843}\sqrt{13002}e^{12}, \frac{2}{1843}\sqrt{26398}e^{34}, \frac{788}{1843}e^{13} + \frac{2}{1843}\sqrt{9062}e^{25}$	$(\frac{287}{1843}, \frac{1}{1843}, \frac{286}{1843}, -\frac{502}{1843}, \frac{572}{1843}, -\frac{501}{1843}, \frac{288}{1843}, -\frac{216}{1843}, \frac{573}{1843})$ $+ \frac{2}{1843}\sqrt{172966}e^5 \otimes e_8 + \frac{394}{1843}\sqrt{6}e^3 \otimes e_4 + \frac{6}{1843}\sqrt{28762}e^1 \otimes e_6$	{12489, 1378, 236789, 468}
93:12	$0, 0, 0, 0, 0, 0, \frac{40}{2911}\sqrt{282}e^{12}, \frac{20}{2911}\sqrt{1874}e^{34}, \frac{40}{2911}\sqrt{191}e^{13} + \frac{20}{2911}\sqrt{1498}e^{25}$	$(\frac{70}{2911}, \frac{264}{2911}, -\frac{303}{2911}, \frac{167}{2911}, -\frac{7}{41}, \frac{734}{2911}, \frac{334}{2911}, -\frac{136}{2911}, -\frac{233}{2911})$ $+ \frac{100}{2911}\sqrt{106}e^2 \otimes e_8 + \frac{40}{2911}\sqrt{241}e^6 \otimes e_7 + \frac{40}{2911}\sqrt{426}e^4 \otimes e_9$	{135789, 1478, 23457, 279}
93:12	$0, 0, 0, 0, 0, 0, \frac{1}{712}\sqrt{31493}e^{12}, \frac{1}{712}\sqrt{8162}e^{34}, \frac{1}{712}\sqrt{25718}e^{13} + \frac{1}{712}\sqrt{31493}e^{25}$	$(\frac{43}{1424}, -\frac{1}{712}, \frac{75}{712}, -\frac{153}{712}, \frac{195}{1424}, -\frac{1}{356}, \frac{41}{1424}, -\frac{39}{356}, \frac{193}{1424})$ $+ \frac{1}{712}\sqrt{53746}e^2 \otimes e_8 + \frac{1}{712}\sqrt{9394}e^3 \otimes e_6 + \frac{9}{712}\sqrt{462}e^5 \otimes e_7$	{1256, 14678, 2679, 45689}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{131}\sqrt{74}e^{12}, \frac{12}{131}\sqrt{37}e^{34}, \frac{2}{131}\sqrt{851}e^{13} + \frac{2}{131}\sqrt{1110}e^{25}$	$(\frac{20}{131}, -\frac{33}{131}, \frac{2}{131}, -\frac{21}{131}, \frac{55}{131}, \frac{61}{131}, -\frac{13}{131}, -\frac{19}{131}, \frac{22}{131})$ $+ \frac{2}{131}\sqrt{1702}e^6 \otimes e_7 + \frac{2}{131}\sqrt{2590}e^5 \otimes e_8$	{123689, 1256, 134579, 1478, 23457, 24789, 368, 569}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{1699}\sqrt{8587}e^{12}, \frac{3}{1699}\sqrt{30470}e^{34}, \frac{1}{1699}\sqrt{1055370}e^{13} + \frac{1}{1699}\sqrt{377274}e^{25}$	$(\frac{145}{1699}, \frac{181}{1699}, \frac{403}{1699}, -\frac{428}{1699}, \frac{367}{1699}, -\frac{686}{1699}, \frac{326}{1699}, -\frac{25}{1699}, \frac{548}{1699})$ $+ \frac{1}{1699}\sqrt{1218246}e^3 \otimes e_4 + \frac{2}{1699}\sqrt{343203}e^1 \otimes e_6$	{123, 12459, 1357, 1479, 235679, 2467, 369, 456}
93:12	$0, 0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{12}, \frac{4}{527}\sqrt{1722}e^{34}, \frac{2}{527}\sqrt{45633}e^{13} + \frac{2}{527}\sqrt{20951}e^{25}$	$(\frac{13}{31}, \frac{13}{527}, -\frac{48}{527}, \frac{111}{527}, \frac{160}{527}, -\frac{353}{527}, \frac{234}{527}, \frac{63}{527}, \frac{173}{527})$ $+ \frac{4}{527}\sqrt{31570}e^1 \otimes e_6$	{123, 12348, 12459, 12589, 134578, 1357, 1479, 1789, 23456789, 235679, 2467, 2678, 34689, 369, 456, 568}
93:12	$0, 0, 0, 0, 0, 0, \frac{2}{3513}\sqrt{131669}e^{12}, \frac{4}{3513}\sqrt{110842}e^{34}, \frac{2}{3513}\sqrt{90015}e^{13} + \frac{2}{3513}\sqrt{161674}e^{25}$	$(\frac{164}{3513}, \frac{183}{1171}, \frac{107}{1171}, \frac{7}{3513}, \frac{1034}{3513}, \frac{233}{1171}, -\frac{385}{3513}, \frac{328}{3513}, \frac{485}{3513})$ $+ \frac{22}{3513}\sqrt{3530}e^5 \otimes e_8 + \frac{2}{1171}\sqrt{38477}e^4 \otimes e_6 + \frac{8}{3513}\sqrt{22945}e^3 \otimes e_7$	{123689, 1478, 24789, 368}
93:12	$0, 0, 0, 0, 0, 0, \frac{3}{1001}\sqrt{1670}e^{12}, \frac{90}{1001}\sqrt{7}e^{34}, \frac{12}{1001}\sqrt{70}e^{13} + \frac{6}{1001}\sqrt{1330}e^{25}$	$(\frac{9}{91}, -\frac{111}{1001}, -\frac{69}{1001}, \frac{120}{1001}, \frac{141}{1001}, -\frac{159}{1001}, -\frac{12}{1001}, \frac{51}{1001}, \frac{30}{1001})$ $+ \frac{3}{1001}\sqrt{4610}e^3 \otimes e_6 + \frac{3}{1001}\sqrt{6710}e^5 \otimes e_8 + \frac{3}{1001}\sqrt{7270}e^4 \otimes e_9$	{123457, 1569, 2389, 4678}
93:12	$0, 0, 0, 0, 0, 0, \frac{6}{137}\sqrt{205}e^{12}, \frac{4}{137}\sqrt{615}e^{34}, \frac{2}{137}\sqrt{1763}e^{13} + \frac{6}{137}\sqrt{205}e^{25}$	$(\frac{19}{137}, \frac{47}{137}, \frac{4}{137}, -\frac{39}{137}, -\frac{24}{137}, \frac{21}{137}, \frac{66}{137}, -\frac{35}{137}, \frac{23}{137})$ $+ \frac{4}{137}\sqrt{1189}e^2 \otimes e_8$	{123469, 12349, 125, 1256, 1356789, 135789, 14678, 1478, 234567, 23457, 2679, 279, 368, 38, 45689, 4589}
93:12	$0, 0, 0, 0, 0, 0, \frac{170}{2827}\sqrt{22}e^{12}, \frac{34}{2827}\sqrt{546}e^{34}, \frac{68}{2827}\sqrt{285}e^{13} + \frac{68}{2827}\sqrt{3}e^{25}$	$(\frac{544}{2827}, -\frac{17}{2827}, \frac{272}{2827}, -\frac{884}{2827}, \frac{833}{2827}, -\frac{323}{2827}, \frac{527}{2827}, -\frac{612}{2827}, \frac{816}{2827})$ $+ \frac{170}{2827}\sqrt{46}e^5 \otimes e_6 + \frac{34}{2827}\sqrt{1726}e^3 \otimes e_4 + \frac{34}{2827}\sqrt{2274}e^1 \otimes e_8$	{235789, 24678, 3689, 458}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{1159}\sqrt{116678}e^{12}, \frac{2}{1159}\sqrt{42662}e^{14} + \frac{2}{1159}\sqrt{21331}e^{23}, \frac{4}{1159}\sqrt{13621}e^{13} + \frac{2}{1159}\sqrt{42662}e^{25}$	$(\frac{175}{1159}, -\frac{120}{1159}, -\frac{44}{1159}, -\frac{339}{1159}, \frac{251}{1159}, \frac{569}{1159}, \frac{55}{1159}, -\frac{164}{1159}, \frac{131}{1159})$ $+ \frac{2}{1159}\sqrt{151630}e^1 \otimes e_4 + \frac{44}{1159}\sqrt{257}e^6 \otimes e_7$	{12569, 1357, 247, 3469}
93:13	$0, 0, 0, 0, 0, 0, \frac{143}{509}\sqrt{2}e^{12}, \frac{13}{1527}\sqrt{546}e^{14} + \frac{26}{1527}\sqrt{465}e^{23}, \frac{26}{1527}\sqrt{102}e^{13} + \frac{26}{1527}\sqrt{318}e^{25}$	$(\frac{78}{509}, \frac{78}{509}, -\frac{91}{509}, -\frac{91}{509}, -\frac{91}{509}, \frac{156}{509}, \frac{156}{509}, -\frac{13}{509}, -\frac{13}{509})$ $+ \frac{13}{1527}\sqrt{2814}e^1 \otimes e_4 + \frac{143}{509}\sqrt{2}e^6 \otimes e_8 + \frac{26}{1527}\sqrt{885}e^2 \otimes e_5$	{1236, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{13}{889}\sqrt{698}e^{12}, \frac{13}{889}\sqrt{302}e^{14} + \frac{156}{889}e^{23}, \frac{156}{889}e^{13} + \frac{13}{889}\sqrt{302}e^{25}$	$(\frac{65}{889}, \frac{65}{889}, -\frac{104}{889}, -\frac{104}{889}, -\frac{104}{889}, \frac{299}{889}, \frac{130}{889}, -\frac{39}{889}, -\frac{39}{889})$ $+ \frac{13}{889}\sqrt{518}e^6 \otimes e_7 + \frac{13}{889}\sqrt{590}e^1 \otimes e_4 + \frac{13}{889}\sqrt{590}e^2 \otimes e_5$	{1236, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{222}e^{12}, \frac{12}{131}\sqrt{37}e^{14} + \frac{2}{131}\sqrt{851}e^{23}, \frac{6}{131}\sqrt{74}e^{13} + \frac{12}{131}\sqrt{37}e^{25}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{20}{131}, \frac{61}{131}, -\frac{21}{131}, \frac{49}{131}, -\frac{25}{131}, \frac{28}{131}, -\frac{13}{131})$ $+ \frac{2}{131}\sqrt{1258}e^6 \otimes e_7 + \frac{2}{131}\sqrt{3034}e^4 \otimes e_9$	{1346, 15689, 3579, 478}
93:13	$0, 0, 0, 0, 0, 0, \frac{22}{1127}\sqrt{78}e^{12}, \frac{11}{1127}\sqrt{1842}e^{14} + \frac{22}{1127}\sqrt{231}e^{23}, \frac{11}{1127}\sqrt{618}e^{13} + \frac{66}{1127}\sqrt{34}e^{25}$	$(-\frac{55}{1127}, -\frac{209}{1127}, \frac{11}{49}, \frac{99}{1127}, \frac{407}{1127}, -\frac{110}{1127}, -\frac{264}{1127}, \frac{44}{1127}, \frac{198}{1127})$ $+ \frac{22}{1127}\sqrt{771}e^5 \otimes e_8 + \frac{33}{1127}\sqrt{138}e^3 \otimes e_6 + \frac{33}{1127}\sqrt{206}e^4 \otimes e_7$	{24689, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:13	$0, 0, 0, 0, 0, 0, \frac{80}{2981}\sqrt{15}e^{12}, \frac{30}{2981}\sqrt{1670}e^{14} + \frac{10}{2981}\sqrt{9915}e^{23},$ $\frac{100}{2981}\sqrt{105}e^{13} + \frac{20}{2981}\sqrt{2265}e^{25}$	$(-\frac{185}{2981}, \frac{380}{2981}, \frac{20}{271}, \frac{785}{2981}, -\frac{345}{2981}, -\frac{85}{271}, \frac{195}{2981}, \frac{600}{2981}, \frac{35}{2981})$ $+ \frac{20}{2981}\sqrt{5730}e^4 \otimes e_9 + \frac{30}{2981}\sqrt{1990}e^1 \otimes e_6$	{134, 1589, 35679, 4678}
93:13	$0, 0, 0, 0, 0, 0, \frac{4}{93}\sqrt{46}e^{12}, \frac{2}{93}\sqrt{690}e^{14} + \frac{4}{93}\sqrt{46}e^{23},$ $\frac{2}{93}\sqrt{299}e^{13} + \frac{2}{93}\sqrt{46}e^{25}$	$(-\frac{16}{93}, -\frac{3}{31}, \frac{14}{93}, \frac{7}{31}, \frac{7}{93}, \frac{17}{31}, -\frac{25}{93}, \frac{5}{93}, -\frac{2}{93})$ $+ \frac{2}{93}\sqrt{966}e^4 \otimes e_7 + \frac{2}{93}\sqrt{966}e^6 \otimes e_8$	{123469, 135789, 23567, 348}
93:13	$0, 0, 0, 0, 0, 0, \frac{17}{596}\sqrt{141}e^{12}, \frac{17}{596}\sqrt{26}e^{14} + \frac{17}{298}\sqrt{93}e^{23},$ $\frac{17}{596}\sqrt{141}e^{13} + \frac{51}{298}\sqrt{5}e^{25}$	$(-\frac{71}{596}, -\frac{219}{1192}, \frac{217}{1192}, \frac{35}{298}, \frac{147}{596}, \frac{72}{149}, \frac{361}{1192}, -\frac{1}{596}, \frac{75}{1192})$ $+ \frac{17}{298}\sqrt{154}e^3 \otimes e_7 + \frac{17}{596}\sqrt{462}e^6 \otimes e_8$	{1236, 1679, 278, 389}
93:13	$0, 0, 0, 0, 0, 0, \frac{10}{2981}\sqrt{23358}e^{12}, \frac{18}{2981}\sqrt{3206}e^{14} + \frac{2}{2981}\sqrt{338691}e^{23},$ $\frac{6}{2981}\sqrt{16030}e^{13} + \frac{24}{2981}\sqrt{1603}e^{25}$	$(\frac{263}{2981}, -\frac{398}{2981}, \frac{578}{2981}, -\frac{83}{2981}, \frac{1239}{2981}, -\frac{101}{271}, -\frac{135}{2981}, \frac{180}{2981}, \frac{841}{2981})$ $+ \frac{2}{2981}\sqrt{965922}e^1 \otimes e_6 + \frac{32}{2981}\sqrt{3435}e^5 \otimes e_7$	{12358, 1347, 2346789, 3569}
93:13	$0, 0, 0, 0, 0, 0, \frac{9}{655}\sqrt{6}e^{12}, \frac{18}{655}\sqrt{6}e^{14} + \frac{9}{655}\sqrt{714}e^{23},$ $\frac{18}{655}\sqrt{183}e^{13} + \frac{18}{655}\sqrt{6}e^{25}$	$(\frac{117}{655}, -\frac{63}{655}, \frac{54}{655}, -\frac{126}{655}, \frac{234}{655}, -\frac{189}{655}, \frac{54}{655}, -\frac{9}{655}, \frac{171}{655})$ $+ \frac{198}{655}\sqrt{3}e^3 \otimes e_6 + \frac{27}{655}\sqrt{118}e^5 \otimes e_8 + \frac{27}{655}\sqrt{122}e^1 \otimes e_4$	{234579, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{845}\sqrt{19311}e^{12}, \frac{12}{845}\sqrt{1230}e^{14} + \frac{2}{845}\sqrt{9717}e^{23},$ $\frac{2}{845}\sqrt{19311}e^{13} + \frac{2}{845}\sqrt{31857}e^{25}$	$(\frac{24}{845}, -\frac{111}{845}, \frac{148}{845}, \frac{1}{65}, \frac{283}{65}, -\frac{233}{845}, -\frac{87}{845}, \frac{37}{845}, \frac{172}{845})$ $+ \frac{4}{845}\sqrt{14514}e^5 \otimes e_8 + \frac{6}{845}\sqrt{4141}e^4 \otimes e_6$	{2356, 2489, 3478, 5679}
93:13	$0, 0, 0, 0, 0, 0, \frac{58}{2645}\sqrt{102}e^{12}, \frac{29}{2645}\sqrt{1174}e^{14} + \frac{58}{2645}\sqrt{102}e^{23},$ $\frac{29}{2645}\sqrt{618}e^{13} + \frac{87}{2645}\sqrt{70}e^{25}$	$(-\frac{464}{2645}, -\frac{87}{2645}, \frac{58}{529}, \frac{29}{115}, -\frac{87}{2645}, \frac{1044}{2645}, -\frac{551}{2645}, \frac{203}{2645}, -\frac{174}{2645})$ $+ \frac{116}{2645}\sqrt{102}e^6 \otimes e_8 + \frac{174}{2645}\sqrt{57}e^4 \otimes e_9 + \frac{29}{529}\sqrt{46}e^3 \otimes e_7$	{12789, 2369}
93:13	$0, 0, 0, 0, 0, 0, \frac{3}{77}\sqrt{30}e^{12}, \frac{1}{77}\sqrt{390}e^{14} + \frac{1}{77}\sqrt{10}e^{23},$ $\frac{1}{77}\sqrt{10}e^{13} + \frac{1}{77}\sqrt{390}e^{25}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{110}e^6 \otimes e_7 + \frac{1}{77}\sqrt{410}e^4 \otimes e_9 + \frac{1}{77}\sqrt{410}e^5 \otimes e_8$	{1236789, 124567}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{115}\sqrt{483}e^{12}, \frac{4}{115}\sqrt{231}e^{14} + \frac{2}{115}\sqrt{42}e^{23},$ $\frac{4}{115}\sqrt{42}e^{13} + \frac{6}{115}\sqrt{70}e^{25}$	$(-\frac{18}{115}, \frac{6}{115}, \frac{1}{23}, \frac{29}{115}, -\frac{115}{115}, \frac{53}{115}, -\frac{12}{115}, \frac{11}{115}, -\frac{13}{115})$ $+ \frac{2}{115}\sqrt{1302}e^4 \otimes e_9 + \frac{42}{115}\sqrt{2}e^6 \otimes e_8$	{1346, 1589, 35679, 478}
93:13	$0, 0, 0, 0, 0, 0, \frac{3}{92}\sqrt{287}e^{12}, \frac{3}{46}\sqrt{133}e^{14} + \frac{3}{92}\sqrt{287}e^{23},$ $\frac{3}{92}\sqrt{266}e^{13} + \frac{3}{46}\sqrt{133}e^{25}$	$(-\frac{47}{184}, \frac{4}{23}, \frac{29}{184}, \frac{27}{46}, -\frac{25}{92}, \frac{13}{92}, -\frac{15}{184}, \frac{61}{184}, -\frac{9}{92})$ $+ \frac{3}{92}\sqrt{1106}e^4 \otimes e_9$	{134, 1346, 15689, 1589, 35679, 3579, 4678, 478}
93:13	$0, 0, 0, 0, 0, 0, \frac{5}{637}\sqrt{570}e^{12}, \frac{5}{637}\sqrt{330}e^{14} + \frac{25}{637}\sqrt{66}e^{23},$ $\frac{5}{637}\sqrt{570}e^{13} + \frac{5}{637}\sqrt{1090}e^{25}$	$(\frac{15}{637}, -\frac{55}{637}, \frac{85}{637}, \frac{15}{637}, \frac{155}{637}, -\frac{180}{637}, -\frac{40}{637}, \frac{30}{637}, \frac{100}{637})$ $+ \frac{10}{637}\sqrt{570}e^2 \otimes e_6 + \frac{25}{637}\sqrt{58}e^3 \otimes e_7 + \frac{60}{637}\sqrt{15}e^5 \otimes e_8$	{24789, 3468}
93:13	$0, 0, 0, 0, 0, 0, \frac{7}{261}\sqrt{166}e^{12}, \frac{14}{261}\sqrt{29}e^{14} + \frac{14}{87}\sqrt{2}e^{23},$ $\frac{7}{261}\sqrt{166}e^{13} + \frac{35}{261}\sqrt{5}e^{25}$	$(\frac{14}{261}, -\frac{14}{87}, \frac{7}{87}, -\frac{35}{261}, \frac{77}{261}, \frac{28}{261}, -\frac{28}{261}, -\frac{7}{87}, \frac{35}{261})$ $+ \frac{7}{261}\sqrt{215}e^1 \otimes e_4 + \frac{7}{261}\sqrt{251}e^3 \otimes e_7 + \frac{7}{87}\sqrt{3}e^6 \otimes e_8$	{1236, 1679}
93:13	$0, 0, 0, 0, 0, 0, \frac{20}{497}\sqrt{5}e^{12}, \frac{10}{497}\sqrt{5}e^{14} + \frac{25}{497}\sqrt{46}e^{23},$ $\frac{5}{497}\sqrt{1070}e^{13} + \frac{10}{497}\sqrt{410}e^{25}$	$(\frac{65}{497}, -\frac{30}{497}, \frac{5}{71}, -\frac{60}{497}, \frac{130}{497}, -\frac{155}{497}, \frac{5}{71}, \frac{5}{497}, \frac{100}{497})$ $+ \frac{25}{497}\sqrt{2}e^1 \otimes e_4 + \frac{30}{497}\sqrt{55}e^2 \otimes e_6 + \frac{5}{497}\sqrt{2510}e^5 \otimes e_8$	{2489, 34678}
93:13	$0, 0, 0, 0, 0, 0, \frac{10}{149}\sqrt{51}e^{12}, \frac{2}{149}\sqrt{357}e^{14} + \frac{2}{149}\sqrt{663}e^{23},$ $\frac{10}{149}\sqrt{51}e^{13} + \frac{12}{149}\sqrt{17}e^{25}$	$(\frac{49}{149}, -\frac{8}{149}, \frac{4}{149}, -\frac{53}{149}, \frac{61}{149}, -\frac{41}{149}, \frac{41}{149}, -\frac{4}{149}, \frac{53}{149})$ $+ \frac{4}{149}\sqrt{969}e^1 \otimes e_4 + \frac{6}{149}\sqrt{323}e^5 \otimes e_6$	{1269, 1367, 2457, 3459}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{138}\sqrt{12013}e^{12}, \frac{1}{276}\sqrt{50982}e^{14} + \frac{1}{276}\sqrt{19631}e^{23},$ $\frac{1}{276}\sqrt{19631}e^{13} + \frac{1}{138}\sqrt{1465}e^{25}$	$(-\frac{181}{552}, -\frac{9}{184}, \frac{28}{69}, \frac{63}{92}, \frac{35}{276}, \frac{15}{92}, -\frac{26}{69}, \frac{197}{552}, \frac{43}{552})$ $+ \frac{1}{276}\sqrt{135366}e^4 \otimes e_7$	{1245, 12456, 1678, 178, 2679, 279, 45689, 4589}
93:13	$0, 0, 0, 0, 0, 0, \frac{3}{89}\sqrt{438}e^{12}, \frac{1}{89}\sqrt{3358}e^{14} + \frac{3}{89}\sqrt{438}e^{23},$ $\frac{3}{89}\sqrt{438}e^{13} + \frac{1}{89}\sqrt{3358}e^{25}$	$(-\frac{19}{89}, -\frac{19}{89}, \frac{35}{89}, \frac{35}{89}, \frac{35}{89}, \frac{12}{89}, -\frac{38}{89}, \frac{16}{89}, \frac{16}{89})$ $+ \frac{1}{89}\sqrt{11242}e^3 \otimes e_7$	{123, 1236, 1679, 179, 3689, 389}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{2909}\sqrt{241854}e^{12}, \frac{6}{2909}\sqrt{19106}e^{14} + \frac{2}{2909}\sqrt{235563}e^{23},$ $\frac{4}{2909}\sqrt{172653}e^{13} + \frac{2}{2909}\sqrt{127218}e^{25}$	$(\frac{537}{2909}, \frac{68}{2909}, -\frac{392}{2909}, -\frac{861}{2909}, \frac{77}{2909}, \frac{1543}{2909}, \frac{605}{2909}, -\frac{324}{2909}, \frac{145}{2909})$ $+ \frac{12}{2909}\sqrt{24931}e^6 \otimes e_9 + \frac{2}{2909}\sqrt{954834}e^1 \otimes e_4$	{129, 1367, 24567, 3459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:13	$0, 0, 0, 0, 0, 0, \frac{7}{527}\sqrt{582}e^{12}, \frac{42}{527}\sqrt{5}e^{14} + \frac{7}{527}\sqrt{411}e^{23},$ $\frac{7}{527}\sqrt{582}e^{13} + \frac{7}{527}\sqrt{462}e^{25}$	$(\frac{42}{527}, -\frac{70}{527}, \frac{7}{527}, -\frac{105}{527}, \frac{7}{31}, \frac{196}{527}, -\frac{28}{527}, -\frac{63}{527}, \frac{49}{527})$ $+ \frac{21}{527}\sqrt{107}e^5 \otimes e_7 + \frac{21}{527}\sqrt{107}e^6 \otimes e_9 + \frac{7}{527}\sqrt{1023}e^1 \otimes e_4$	{1367, 3459}
93:13	$0, 0, 0, 0, 0, 0, \frac{14}{279}\sqrt{190}e^{12}, \frac{2}{279}\sqrt{8246}e^{14} + \frac{2}{279}\sqrt{6251}e^{23},$ $\frac{14}{279}\sqrt{190}e^{13} + \frac{8}{279}\sqrt{133}e^{25}$	$(\frac{77}{279}, \frac{38}{279}, \frac{22}{279}, -\frac{17}{279}, \frac{61}{279}, -\frac{21}{31}, \frac{115}{279}, \frac{20}{93}, \frac{11}{31})$ $+ \frac{2}{93}\sqrt{3458}e^1 \otimes e_6$	{1238, 12459, 13457, 1789, 23456789, 267, 369, 4568}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{3270}e^{12}, \frac{4}{347}\sqrt{1635}e^{14} + \frac{2}{347}\sqrt{5123}e^{23},$ $\frac{2}{347}\sqrt{3270}e^{13} + \frac{4}{347}\sqrt{1635}e^{25}$	$(-\frac{81}{347}, -\frac{4}{347}, \frac{56}{347}, \frac{133}{347}, -\frac{21}{347}, \frac{193}{347}, -\frac{85}{347}, \frac{52}{347}, -\frac{25}{347})$ $+ \frac{2}{347}\sqrt{16786}e^4 \otimes e_7 + \frac{2}{347}\sqrt{16786}e^6 \otimes e_9$	{1249, 15789, 2567, 468}
93:13	$0, 0, 0, 0, 0, 0, \frac{20}{667}\sqrt{42}e^{12}, \frac{5}{667}\sqrt{2730}e^{14} + \frac{5}{667}\sqrt{238}e^{23},$ $\frac{20}{667}\sqrt{42}e^{13} + \frac{5}{667}\sqrt{2730}e^{25}$	$(-\frac{45}{667}, -\frac{110}{667}, \frac{85}{667}, \frac{20}{667}, \frac{150}{667}, \frac{215}{667}, -\frac{155}{667}, -\frac{25}{667}, \frac{40}{667})$ $+ \frac{35}{667}\sqrt{46}e^4 \otimes e_7 + \frac{35}{667}\sqrt{46}e^6 \otimes e_9 + \frac{5}{667}\sqrt{4074}e^5 \otimes e_8$	{2489, 579}
93:13	$0, 0, 0, 0, 0, 0, \frac{41}{3973}\sqrt{1842}e^{12}, \frac{41}{3973}\sqrt{66}e^{14} + \frac{82}{3973}\sqrt{42}e^{23},$ $\frac{82}{3973}\sqrt{106}e^{13} + \frac{246}{3973}\sqrt{13}e^{25}$	$(\frac{574}{3973}, -\frac{738}{3973}, \frac{205}{3973}, -\frac{1107}{3973}, \frac{1517}{3973}, \frac{1148}{3973}, -\frac{164}{3973}, -\frac{533}{3973}, \frac{779}{3973})$ $+ \frac{41}{3973}\sqrt{1630}e^6 \otimes e_8 + \frac{41}{3973}\sqrt{2814}e^1 \otimes e_4 + \frac{82}{3973}\sqrt{709}e^5 \otimes e_7$	{12358, 234789}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{122}\sqrt{3318}e^{12}, \frac{1}{61}\sqrt{158}e^{14} + \frac{1}{122}\sqrt{3318}e^{23},$ $\frac{1}{122}\sqrt{3318}e^{13} + \frac{1}{122}\sqrt{2607}e^{25}$	$(-\frac{49}{244}, -\frac{6}{61}, \frac{85}{244}, \frac{55}{122}, \frac{15}{61}, -\frac{12}{61}, \frac{73}{244}, \frac{1}{9}, \frac{9}{61})$ $+ \frac{1}{122}\sqrt{11218}e^3 \otimes e_7 + \frac{5}{122}\sqrt{237}e^4 \otimes e_6$	{1236, 1679, 2678, 3689}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{731}\sqrt{100110}e^{12}, \frac{1}{731}\sqrt{17390}e^{14} + \frac{1}{731}\sqrt{26790}e^{23},$ $\frac{1}{731}\sqrt{100110}e^{13} + \frac{47}{731}\sqrt{30}e^{25}$	$(-\frac{1}{43}, -\frac{69}{731}, \frac{149}{731}, \frac{97}{731}, \frac{201}{731}, -\frac{252}{731}, -\frac{2}{17}, \frac{80}{731}, \frac{132}{731})$ $+ \frac{1}{731}\sqrt{168730}e^3 \otimes e_7 + \frac{4}{731}\sqrt{9165}e^1 \otimes e_6$	{123, 179, 2678, 3689}
93:13	$0, 0, 0, 0, 0, 0, \frac{8}{3605}\sqrt{37895}e^{12}, \frac{2}{3605}\sqrt{570174}e^{14} + \frac{2}{3605}\sqrt{357379}e^{23},$ $\frac{4}{3605}\sqrt{35563}e^{13} + \frac{4}{3605}\sqrt{18073}e^{25}$	$(-\frac{249}{3605}, -\frac{4}{3605}, \frac{668}{3605}, \frac{913}{3605}, \frac{423}{3605}, -\frac{283}{721}, -\frac{253}{3605}, \frac{664}{3605}, \frac{419}{3605})$ $+ \frac{2}{3605}\sqrt{999262}e^1 \otimes e_6 + \frac{4}{3605}\sqrt{232034}e^4 \otimes e_7$	{12459, 1789, 267, 4568}
93:13	$0, 0, 0, 0, 0, 0, \frac{6}{89}\sqrt{35}e^{12}, \frac{6}{89}\sqrt{70}e^{14} + \frac{6}{89}\sqrt{155}e^{23},$ $\frac{6}{89}\sqrt{155}e^{13} + \frac{6}{89}\sqrt{70}e^{25}$	$(\frac{3}{89}, \frac{3}{89}, \frac{27}{89}, \frac{27}{89}, \frac{27}{89}, -\frac{63}{89}, \frac{6}{89}, \frac{30}{89}, \frac{30}{89})$ $+ \frac{12}{89}\sqrt{95}e^3 \otimes e_6$	{1237, 12456789, 13458, 169, 3789, 4567}
93:13	$0, 0, 0, 0, 0, 0, \frac{3}{488}\sqrt{4403}e^{12}, \frac{3}{488}\sqrt{2294}e^{14} + \frac{15}{244}\sqrt{37}e^{23},$ $\frac{3}{488}\sqrt{4403}e^{13} + \frac{3}{244}\sqrt{703}e^{25}$	$(\frac{131}{488}, -\frac{33}{976}, -\frac{109}{976}, -\frac{101}{244}, \frac{93}{488}, \frac{131}{244}, \frac{229}{976}, -\frac{71}{488}, \frac{153}{976})$ $+ \frac{3}{244}\sqrt{4181}e^1 \otimes e_4 + \frac{9}{488}\sqrt{1702}e^6 \otimes e_8$	{12589, 13578, 2478, 3489}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{322}e^{12}, \frac{1}{18}\sqrt{46}e^{14} + \frac{1}{18}\sqrt{23}e^{23},$ $\frac{1}{18}\sqrt{23}e^{13} + \frac{1}{18}\sqrt{46}e^{25}$	$(-\frac{5}{36}, -\frac{5}{36}, \frac{2}{9}, \frac{2}{9}, \frac{2}{9}, 1, -\frac{5}{18}, \frac{1}{12}, \frac{1}{12})$ $+ \frac{1}{18}\sqrt{690}e^6 \otimes e_7$	{12345689, 126, 1379, 14578, 3456, 689}
93:13	$0, 0, 0, 0, 0, 0, \frac{9}{161}\sqrt{2}e^{12}, \frac{11}{161}\sqrt{2}e^{14} + \frac{3}{161}\sqrt{6}e^{23},$ $\frac{3}{161}\sqrt{6}e^{13} + \frac{11}{161}\sqrt{2}e^{25}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+ \frac{1}{161}\sqrt{134}e^3 \otimes e_7 + \frac{6}{161}\sqrt{6}e^4 \otimes e_9 + \frac{6}{161}\sqrt{6}e^5 \otimes e_8$	{1236789, 123789}
93:13	$0, 0, 0, 0, 0, 0, \frac{6}{329}\sqrt{345}e^{12}, \frac{2}{329}\sqrt{4278}e^{14} + \frac{6}{329}\sqrt{345}e^{23},$ $\frac{22}{329}\sqrt{69}e^{13} + \frac{2}{329}\sqrt{4278}e^{25}$	$(\frac{73}{329}, -\frac{3}{329}, \frac{11}{329}, -\frac{65}{329}, \frac{87}{329}, -\frac{127}{329}, \frac{10}{47}, \frac{8}{329}, \frac{12}{47})$ $+ \frac{4}{329}\sqrt{2622}e^1 \otimes e_4 + \frac{4}{329}\sqrt{2622}e^3 \otimes e_6$	{123, 1679, 234579, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{26}{581}\sqrt{51}e^{12}, \frac{13}{581}\sqrt{70}e^{14} + \frac{13}{581}\sqrt{114}e^{23},$ $\frac{26}{581}\sqrt{51}e^{13} + \frac{13}{581}\sqrt{66}e^{25}$	$(\frac{13}{581}, -\frac{78}{581}, \frac{104}{581}, \frac{13}{581}, \frac{195}{581}, -\frac{156}{581}, -\frac{65}{581}, \frac{26}{581}, \frac{117}{581})$ $+ \frac{13}{581}\sqrt{430}e^3 \otimes e_7 + \frac{26}{581}\sqrt{102}e^1 \otimes e_6 + \frac{26}{581}\sqrt{57}e^5 \otimes e_8$	{24678, 34689}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{105}\sqrt{170}e^{12}, \frac{2}{315}\sqrt{930}e^{14} + \frac{2}{63}\sqrt{6}e^{23},$ $\frac{2}{315}\sqrt{105}e^{13} + \frac{1}{315}\sqrt{3210}e^{25}$	$(-\frac{1}{21}, -\frac{1}{21}, \frac{3}{35}, \frac{3}{35}, \frac{3}{35}, -\frac{2}{21}, -\frac{2}{21}, \frac{4}{105}, \frac{4}{105})$ $+ \frac{1}{105}\sqrt{170}e^1 \otimes e_6 + \frac{1}{315}\sqrt{3390}e^5 \otimes e_8 + \frac{2}{63}\sqrt{39}e^4 \otimes e_9$	{35679, 4678}
93:13	$0, 0, 0, 0, 0, 0, \frac{31}{4669}\sqrt{1082}e^{12}, \frac{62}{4669}\sqrt{759}e^{14} + \frac{62}{4669}\sqrt{106}e^{23},$ $\frac{62}{4669}\sqrt{107}e^{13} + \frac{31}{4669}\sqrt{1094}e^{25}$	$(-\frac{93}{4669}, -\frac{527}{4669}, \frac{775}{4669}, \frac{341}{4669}, \frac{1209}{4669}, -\frac{1054}{4669}, -\frac{620}{4669}, \frac{248}{4669}, \frac{682}{4669})$ $+ \frac{31}{4669}\sqrt{2806}e^1 \otimes e_6 + \frac{31}{4669}\sqrt{2814}e^5 \otimes e_8 + \frac{62}{4669}\sqrt{755}e^4 \otimes e_7$	{1245, 178}
93:13	$0, 0, 0, 0, 0, 0, \frac{148}{6409}\sqrt{251}e^{12}, \frac{37}{6409}\sqrt{1018}e^{14} + \frac{592}{6409}e^{23},$ $\frac{37}{6409}\sqrt{382}e^{13} + \frac{37}{6409}\sqrt{1914}e^{25}$	$(\frac{703}{6409}, -\frac{444}{6409}, \frac{37}{493}, -\frac{666}{6409}, \frac{1628}{6409}, -\frac{1813}{6409}, \frac{259}{6409}, \frac{37}{6409}, \frac{1184}{6409})$ $+ \frac{111}{6409}\sqrt{354}e^1 \otimes e_4 + \frac{37}{6409}\sqrt{4334}e^5 \otimes e_7 + \frac{37}{6409}\sqrt{4462}e^2 \otimes e_6$	{167, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{102}e^{12}, \frac{2}{21}\sqrt{3}e^{14} + \frac{1}{21}\sqrt{6}e^{23},$ $\frac{2}{7}e^{13} + \frac{2}{21}\sqrt{3}e^{25}$	$(\frac{1}{7}, -\frac{1}{7}, 0, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, 0, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{21}\sqrt{66}e^5 \otimes e_8 + \frac{2}{21}\sqrt{33}e^6 \otimes e_7 + \frac{5}{21}\sqrt{6}e^1 \otimes e_4$	{12569, 1357}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{2609}\sqrt{523095}e^{12}, \frac{2}{2609}\sqrt{215430}e^{14} + \frac{2}{2609}\sqrt{150285}e^{23},$ $\frac{2}{2609}\sqrt{136095}e^{13} + \frac{6}{2609}\sqrt{4730}e^{25}$	$(\frac{721}{2609}, \frac{343}{2609}, -\frac{191}{2609}, -\frac{569}{2609}, \frac{187}{2609}, -\frac{947}{2609}, \frac{1064}{2609}, \frac{152}{2609}, \frac{530}{2609})$ $+ \frac{120}{2609}\sqrt{215}e^2 \otimes e_6 + \frac{68}{2609}\sqrt{645}e^1 \otimes e_4$	{1235, 15679, 23479, 46}
93:13	$0, 0, 0, 0, 0, 0, \frac{26}{1527}\sqrt{465}e^{12}, \frac{26}{1527}\sqrt{318}e^{14} + \frac{26}{1527}\sqrt{102}e^{23},$ $\frac{143}{509}\sqrt{2}e^{13} + \frac{13}{1527}\sqrt{546}e^{25}$	$(\frac{78}{509}, -\frac{182}{1527}, \frac{143}{1527}, -\frac{91}{509}, \frac{559}{1527}, -\frac{364}{1527}, \frac{52}{1527}, -\frac{13}{509}, \frac{377}{1527})$ $+ \frac{13}{1527}\sqrt{2814}e^3 \otimes e_6 + \frac{143}{509}\sqrt{2}e^5 \otimes e_7 + \frac{26}{1527}\sqrt{885}e^1 \otimes e_4$	{1679, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{22}{329}\sqrt{69}e^{12}, \frac{2}{329}\sqrt{4278}e^{14} + \frac{6}{329}\sqrt{345}e^{23},$ $\frac{6}{329}\sqrt{345}e^{13} + \frac{2}{329}\sqrt{4278}e^{25}$	$(\frac{73}{329}, \frac{73}{329}, -\frac{65}{329}, -\frac{65}{329}, -\frac{65}{329}, \frac{25}{329}, \frac{146}{329}, \frac{8}{329}, \frac{8}{329})$ $+ \frac{4}{329}\sqrt{2622}e^1 \otimes e_4 + \frac{329}{2622}e^2 \otimes e_5$	{123, 1236, 45, 456}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{276}\sqrt{19631}e^{12}, \frac{1}{276}\sqrt{50982}e^{14} + \frac{1}{138}\sqrt{12013}e^{23},$ $\frac{1}{276}\sqrt{19631}e^{13} + \frac{1}{138}\sqrt{1465}e^{25}$	$(\frac{25}{276}, -\frac{9}{184}, -\frac{7}{552}, -\frac{7}{46}, \frac{35}{276}, 1, \frac{1}{24}, -\frac{17}{276}, \frac{43}{552})$ $+ \frac{1}{276}\sqrt{135366}e^6 \otimes e_8$	{1234679, 12578, 13589, 146, 2356, 2489, 3478, 5679}
93:13	$0, 0, 0, 0, 0, 0, \frac{4}{2909}\sqrt{172653}e^{12}, \frac{6}{2909}\sqrt{19106}e^{14} + \frac{2}{2909}\sqrt{235563}e^{23},$ $\frac{2}{2909}\sqrt{241854}e^{13} + \frac{2}{2909}\sqrt{127218}e^{25}$	$(\frac{537}{2909}, -\frac{574}{2909}, \frac{250}{2909}, \frac{861}{2909}, \frac{1361}{2909}, \frac{259}{2909}, -\frac{37}{2909}, -\frac{324}{2909}, \frac{787}{2909})$ $+ \frac{12}{2909}\sqrt{24931}e^5 \otimes e_7 + \frac{2}{2909}\sqrt{954834}e^1 \otimes e_4$	{1367, 137, 34569, 3459}
93:13	$0, 0, 0, 0, 0, 0, \frac{10}{341}\sqrt{51}e^{12}, \frac{2}{341}\sqrt{2190}e^{14} + \frac{6}{341}\sqrt{10}e^{23},$ $\frac{6}{341}\sqrt{10}e^{13} + \frac{2}{341}\sqrt{2190}e^{25}$	$(-\frac{30}{341}, -\frac{30}{341}, \frac{37}{341}, \frac{37}{341}, \frac{37}{341}, \frac{25}{341}, -\frac{60}{341}, \frac{7}{341}, \frac{7}{341})$ $+ \frac{2}{341}\sqrt{2370}e^4 \otimes e_9 + \frac{2}{341}\sqrt{2370}e^5 \otimes e_8$	{1236789, 123789, 124567, 12457}
93:13	$0, 0, 0, 0, 0, 0, \frac{10}{483}\sqrt{42}e^{12}, \frac{10}{161}\sqrt{21}e^{14} + \frac{5}{161}\sqrt{67}e^{23},$ $\frac{10}{483}\sqrt{105}e^{13} + \frac{20}{483}\sqrt{42}e^{25}$	$(-\frac{40}{483}, -\frac{5}{483}, \frac{65}{483}, \frac{100}{483}, \frac{10}{161}, -\frac{5}{21}, -\frac{15}{161}, \frac{20}{161}, \frac{25}{483})$ $+ \frac{5}{483}\sqrt{1149}e^4 \otimes e_9 + \frac{5}{483}\sqrt{645}e^5 \otimes e_7 + \frac{5}{483}\sqrt{897}e^1 \otimes e_6$	{1347, 3569}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{5}e^{12}, \frac{1}{4}\sqrt{5}e^{14} + \frac{1}{8}\sqrt{10}e^{23},$ $\frac{1}{8}\sqrt{5}e^{13} + \frac{1}{4}\sqrt{5}e^{25}$	$(\frac{1}{4}, -\frac{3}{16}, \frac{1}{16}, -\frac{3}{8}, \frac{1}{2}, \frac{1}{8}, \frac{1}{16}, -\frac{1}{8}, \frac{5}{16})$ $+ \frac{1}{4}\sqrt{5}e^1 \otimes e_4 + \frac{5}{8}\sqrt{2}e^5 \otimes e_8$	{24689, 2489, 34678, 3478}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{115}\sqrt{42}e^{12}, \frac{4}{115}\sqrt{231}e^{14} + \frac{4}{115}\sqrt{42}e^{23},$ $\frac{2}{115}\sqrt{483}e^{13} + \frac{6}{115}\sqrt{70}e^{25}$	$(-\frac{8}{115}, -\frac{5}{23}, \frac{26}{115}, \frac{9}{115}, \frac{43}{115}, \frac{11}{115}, -\frac{33}{115}, \frac{1}{115}, \frac{18}{115})$ $+ \frac{2}{115}\sqrt{1302}e^5 \otimes e_8 + \frac{42}{115}\sqrt{2}e^4 \otimes e_7$	{24689, 2489, 5679, 579}
93:13	$0, 0, 0, 0, 0, 0, \frac{6}{89}\sqrt{155}e^{12}, \frac{6}{89}\sqrt{70}e^{14} + \frac{6}{89}\sqrt{35}e^{23},$ $\frac{6}{89}\sqrt{155}e^{13} + \frac{6}{89}\sqrt{70}e^{25}$	$(\frac{41}{89}, \frac{3}{89}, -\frac{11}{89}, -\frac{49}{89}, \frac{27}{89}, \frac{13}{89}, \frac{44}{89}, -\frac{8}{89}, \frac{30}{89})$ $+ \frac{12}{89}\sqrt{95}e^1 \otimes e_4$	{12569, 1259, 13567, 1357, 2467, 247, 3469, 349}
93:13	$0, 0, 0, 0, 0, 0, \frac{1}{288}\sqrt{10945}e^{12}, \frac{1}{288}\sqrt{8030}e^{14} + \frac{1}{48}\sqrt{110}e^{23},$ $\frac{1}{288}\sqrt{10945}e^{13} + \frac{1}{288}\sqrt{8030}e^{25}$	$(\frac{17}{288}, -\frac{31}{192}, \frac{17}{192}, \frac{19}{144}, \frac{89}{288}, \frac{1}{18}, -\frac{59}{576}, -\frac{7}{96}, \frac{85}{576})$ $+ \frac{1}{288}\sqrt{13970}e^1 \otimes e_4 + \frac{5}{288}\sqrt{638}e^3 \otimes e_7$	{123, 1236, 1679, 179}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{69}\sqrt{215}e^{12}, \frac{4}{69}\sqrt{301}e^{14} + \frac{2}{69}\sqrt{215}e^{23},$ $\frac{2}{69}\sqrt{215}e^{13} + \frac{2}{23}\sqrt{43}e^{25}$	$(-\frac{2}{23}, \frac{13}{69}, \frac{22}{69}, \frac{41}{69}, \frac{1}{23}, -\frac{15}{23}, \frac{7}{69}, \frac{35}{69}, \frac{16}{69})$ $+ \frac{2}{69}\sqrt{2451}e^4 \otimes e_6$	{1236789, 12457, 13459, 168, 23458, 269, 367, 45789}
93:13	$0, 0, 0, 0, 0, 0, \frac{15}{244}\sqrt{37}e^{12}, \frac{3}{488}\sqrt{2294}e^{14} + \frac{3}{488}\sqrt{4403}e^{23},$ $\frac{3}{488}\sqrt{4403}e^{13} + \frac{3}{244}\sqrt{703}e^{25}$	$(-\frac{171}{976}, -\frac{33}{976}, \frac{81}{244}, \frac{231}{488}, \frac{93}{488}, -\frac{171}{488}, -\frac{51}{244}, \frac{291}{976}, \frac{153}{976})$ $+ \frac{3}{244}\sqrt{4181}e^3 \otimes e_6 + \frac{9}{488}\sqrt{1702}e^4 \otimes e_7$	{1234, 13578, 23579, 3489}
93:13	$0, 0, 0, 0, 0, 0, \frac{26}{581}\sqrt{51}e^{12}, \frac{13}{581}\sqrt{478}e^{14} + \frac{13}{581}\sqrt{114}e^{23},$ $\frac{26}{581}\sqrt{51}e^{13} + \frac{39}{581}\sqrt{38}e^{25}$	$(\frac{13}{581}, -\frac{78}{581}, \frac{104}{581}, \frac{13}{581}, \frac{195}{581}, -\frac{156}{581}, -\frac{65}{581}, \frac{26}{581}, \frac{117}{581})$ $+ \frac{13}{581}\sqrt{22}e^3 \otimes e_7 + \frac{26}{581}\sqrt{102}e^4 \otimes e_6 + \frac{26}{581}\sqrt{159}e^5 \otimes e_8$	{2356, 5679}
93:13	$0, 0, 0, 0, 0, 0, \frac{3}{100}\sqrt{35}e^{12}, \frac{3}{50}\sqrt{85}e^{14} + \frac{3}{20}\sqrt{2}e^{23},$ $\frac{3}{100}\sqrt{35}e^{13} + \frac{3}{50}\sqrt{55}e^{25}$	$(\frac{1}{5}, -\frac{1}{8}, \frac{19}{200}, -\frac{23}{100}, \frac{21}{50}, -\frac{1}{4}, \frac{3}{40}, -\frac{3}{100}, \frac{59}{200})$ $+ \frac{3}{100}\sqrt{530}e^5 \otimes e_8 + \frac{9}{50}\sqrt{10}e^1 \otimes e_6$	{2356, 24689, 34678, 5679}
93:13	$0, 0, 0, 0, 0, 0, \frac{58}{2461}\sqrt{122}e^{12}, \frac{58}{2461}\sqrt{202}e^{14} + \frac{29}{2461}\sqrt{118}e^{23},$ $\frac{29}{2461}\sqrt{370}e^{13} + \frac{58}{2461}\sqrt{345}e^{25}$	$(\frac{261}{2461}, -\frac{290}{2461}, -\frac{29}{2461}, -\frac{2461}{2461}, \frac{522}{2461}, \frac{1073}{2461}, -\frac{29}{2461}, -\frac{319}{2461}, \frac{232}{2461})$ $+ \frac{29}{2461}\sqrt{1994}e^5 \otimes e_8 + \frac{29}{2461}\sqrt{782}e^1 \otimes e_4 + \frac{58}{2461}\sqrt{429}e^6 \otimes e_9$	{12789, 1368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:13	$0, 0, 0, 0, 0, 0, \frac{29}{5853}\sqrt{3034}e^{12}, \frac{29}{5853}\sqrt{2434}e^{14} + \frac{58}{5853}\sqrt{213}e^{23},$ $\frac{58}{5853}\sqrt{1003}e^{13} + \frac{87}{1951}\sqrt{22}e^{25}$	$(\frac{58}{1951}, -\frac{754}{5853}, \frac{87}{1951}, -\frac{667}{5853}, \frac{1189}{5853}, \frac{1276}{5853}, -\frac{580}{5853}, -\frac{493}{5853}, \frac{145}{1951})$ $+ \frac{29}{5853}\sqrt{4790}e^3 \otimes e_7 + \frac{58}{5853}\sqrt{1091}e^1 \otimes e_4 + \frac{58}{5853}\sqrt{489}e^6 \otimes e_9$	{1236, 179}
93:13	$0, 0, 0, 0, 0, 0, \frac{2}{741}\sqrt{21565}e^{12}, \frac{4}{741}\sqrt{8626}e^{14} + \frac{2}{741}\sqrt{19295}e^{23},$ $\frac{2}{741}\sqrt{19295}e^{13} + \frac{2}{247}\sqrt{4313}e^{25}$	$(-\frac{28}{247}, -\frac{103}{741}, \frac{248}{741}, \frac{229}{741}, \frac{89}{247}, -\frac{75}{247}, -\frac{187}{741}, \frac{145}{741}, \frac{164}{741})$ $+ \frac{2}{741}\sqrt{68781}e^4 \otimes e_6 + \frac{4}{247}\sqrt{2270}e^5 \otimes e_7$	{1245, 1678, 2679, 4589}
93:13	$0, 0, 0, 0, 0, 0, \frac{7}{261}\sqrt{193}e^{12}, \frac{7}{261}\sqrt{143}e^{14} + \frac{14}{87}\sqrt{2}e^{23},$ $\frac{7}{261}\sqrt{193}e^{13} + \frac{14}{261}\sqrt{38}e^{25}$	$(\frac{14}{261}, -\frac{14}{87}, \frac{7}{87}, -\frac{35}{261}, \frac{77}{261}, \frac{28}{261}, -\frac{28}{261}, -\frac{7}{87}, \frac{35}{261})$ $+ \frac{77}{261}\sqrt{2}e^1 \otimes e_4 + \frac{7}{261}\sqrt{278}e^3 \otimes e_7 + \frac{7}{87}\sqrt{3}e^5 \otimes e_6$	{123, 179}
93:14	$0, 0, 0, 0, 0, 0, \frac{16}{3757}\sqrt{1389}e^{12}, \frac{4}{3757}\sqrt{106953}e^{14} + \frac{4}{3757}\sqrt{88433}e^{23},$ $\frac{2}{3757}\sqrt{369011}e^{13} + \frac{22}{3757}\sqrt{4630}e^{45}$	$(\frac{380}{3757}, -\frac{257}{3757}, \frac{348}{3757}, -\frac{1}{13}, \frac{1017}{3757}, -\frac{1215}{3757}, \frac{123}{3757}, \frac{7}{289}, \frac{56}{289})$ $+ \frac{4}{3757}\sqrt{221314}e^5 \otimes e_8 + \frac{6}{3757}\sqrt{78710}e^4 \otimes e_6$	{12678, 145, 2489, 5679}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{30}e^{12}, \frac{1}{12}\sqrt{15}e^{14} + \frac{1}{6}\sqrt{3}e^{23},$ $\frac{1}{12}\sqrt{15}e^{13} + \frac{1}{6}\sqrt{6}e^{45}$	$(\frac{1}{12}, -\frac{1}{12}, \frac{1}{8}, -\frac{1}{24}, \frac{1}{4}, -\frac{1}{3}, 0, \frac{1}{24}, \frac{5}{4})$ $+ \frac{1}{12}\sqrt{30}e^2 \otimes e_6 + \frac{1}{2}e^5 \otimes e_7$	{12359, 12458, 1346789, 167}
93:14	$0, 0, 0, 0, 0, 0, \frac{13}{142}\sqrt{85}e^{12}, \frac{1}{284}\sqrt{25415}e^{14} + \frac{3}{284}\sqrt{442}e^{23},$ $\frac{1}{284}\sqrt{25415}e^{13} + \frac{1}{284}\sqrt{58786}e^{45}$	$(\frac{27}{284}, -\frac{97}{284}, \frac{181}{568}, -\frac{67}{568}, \frac{151}{284}, \frac{21}{142}, \frac{35}{142}, -\frac{13}{568}, \frac{235}{568})$ $+ \frac{11}{142}\sqrt{221}e^5 \otimes e_7$	{123569, 12359, 124568, 12458, 1346789, 134789, 167, 17}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{1247}e^{12}, \frac{2}{939}\sqrt{8265}e^{14} + \frac{58}{939}\sqrt{33}e^{23},$ $\frac{4}{939}\sqrt{1131}e^{13} + \frac{2}{939}\sqrt{31494}e^{45}$	$(\frac{37}{313}, \frac{37}{313}, -\frac{58}{313}, -\frac{58}{313}, \frac{37}{313}, \frac{31}{313}, \frac{74}{313}, -\frac{21}{313}, -\frac{21}{313})$ $+ \frac{2}{939}\sqrt{40542}e^2 \otimes e_9 + \frac{4}{939}\sqrt{8265}e^5 \otimes e_8$	{1346789, 134789, 234567, 23457}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1246}e^{12}, \frac{1}{72}\sqrt{1335}e^{14} + \frac{1}{72}\sqrt{1246}e^{23},$ $\frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{5162}e^{45}$	$(\frac{7}{24}, -\frac{1}{72}, \frac{3}{16}, -\frac{17}{144}, \frac{43}{72}, -\frac{23}{36}, \frac{5}{18}, \frac{25}{144}, \frac{23}{48})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_6$	{12359, 12458, 1346789, 167, 23457, 25789, 368, 469}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{628}\sqrt{58017}e^{12}, \frac{1}{314}\sqrt{8621}e^{14} + \frac{1}{628}\sqrt{58017}e^{23},$ $\frac{3}{628}\sqrt{466}e^{13} + \frac{1}{628}\sqrt{107646}e^{45}$	$(\frac{25}{1256}, \frac{46}{157}, -\frac{123}{1256}, \frac{55}{314}, -\frac{159}{628}, \frac{123}{628}, \frac{393}{1256}, \frac{245}{1256}, -\frac{49}{628})$ $+ \frac{19}{628}\sqrt{466}e^2 \otimes e_9 + \frac{1}{628}\sqrt{90870}e^4 \otimes e_6$	{1236, 15679, 2678, 35689}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{437}\sqrt{6141}e^{12}, \frac{14}{437}\sqrt{89}e^{14} + \frac{6}{437}\sqrt{1335}e^{23},$ $\frac{4}{437}\sqrt{267}e^{13} + \frac{2}{437}\sqrt{10146}e^{45}$	$(\frac{1}{23}, \frac{101}{437}, -\frac{96}{437}, -\frac{14}{437}, -\frac{63}{437}, \frac{183}{437}, \frac{120}{437}, \frac{5}{437}, -\frac{77}{437})$ $+ \frac{2}{437}\sqrt{22606}e^2 \otimes e_9 + \frac{4}{437}\sqrt{2937}e^6 \otimes e_8$	{1236, 15679, 278, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{28}{3781}\sqrt{210}e^{12}, \frac{210}{3781}\sqrt{3}e^{14} + \frac{21}{3781}\sqrt{134}e^{23},$ $\frac{7}{3781}\sqrt{326}e^{13} + \frac{21}{3781}\sqrt{418}e^{45}$	$(\frac{7}{199}, \frac{42}{3781}, -\frac{140}{3781}, -\frac{231}{3781}, \frac{224}{3781}, -\frac{49}{3781}, \frac{175}{3781}, -\frac{98}{3781}, -\frac{7}{3781})$ $+ \frac{315}{3781}\sqrt{2}e^2 \otimes e_9 + \frac{7}{199}\sqrt{10}e^5 \otimes e_7 + \frac{7}{3781}\sqrt{698}e^6 \otimes e_8$	{124568, 1346789}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{39}\sqrt{2}e^{12}, \frac{1}{39}\sqrt{6}e^{14} + \frac{2}{39}\sqrt{15}e^{23},$ $\frac{2}{39}\sqrt{6}e^{13} + \frac{2}{39}\sqrt{21}e^{45}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, 0, 0)$ $+ \frac{1}{13}\sqrt{6}e^4 \otimes e_6 + \frac{1}{39}\sqrt{78}e^2 \otimes e_9 + \frac{2}{39}\sqrt{21}e^5 \otimes e_8$	{1268, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{161}\sqrt{67}e^{12}, \frac{1}{483}\sqrt{570}e^{14} + \frac{2}{483}\sqrt{222}e^{23},$ $\frac{1}{483}\sqrt{201}e^{13} + \frac{2}{483}\sqrt{201}e^{45}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+ \frac{1}{161}\sqrt{95}e^3 \otimes e_7 + \frac{1}{483}\sqrt{1257}e^2 \otimes e_9 + \frac{1}{483}\sqrt{570}e^5 \otimes e_8$	{15679, 1579, 2678, 278}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{161}\sqrt{67}e^{12}, \frac{1}{483}\sqrt{570}e^{14} + \frac{2}{483}\sqrt{222}e^{23},$ $\frac{1}{483}\sqrt{201}e^{13} + \frac{2}{483}\sqrt{201}e^{45}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $- \frac{1}{161}\sqrt{95}e^3 \otimes e_7 + \frac{1}{483}\sqrt{1257}e^2 \otimes e_9 + \frac{1}{483}\sqrt{570}e^5 \otimes e_8$	{15679, 1579, 2678, 278}
93:14	$0, 0, 0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{5}{281}\sqrt{2093}e^{14} + \frac{3}{281}\sqrt{5681}e^{23},$ $\frac{1}{281}\sqrt{18239}e^{13} + \frac{2}{281}\sqrt{598}e^{45}$	$(\frac{41}{562}, -\frac{8}{281}, -\frac{10}{281}, -\frac{77}{562}, \frac{49}{281}, 1, \frac{25}{562}, -\frac{18}{281}, \frac{21}{562})$ $+ \frac{2}{281}\sqrt{35282}e^6 \otimes e_8$	{12345679, 12578, 1389, 146, 2356, 24589, 3478, 679}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{881}\sqrt{36386}e^{12}, \frac{4}{881}\sqrt{2415}e^{14} + \frac{6}{881}\sqrt{161}e^{23},$ $\frac{70}{881}\sqrt{23}e^{13} + \frac{4}{881}\sqrt{13363}e^{45}$	$(-\frac{27}{881}, -\frac{133}{881}, \frac{268}{881}, \frac{162}{881}, \frac{79}{881}, -\frac{243}{881}, -\frac{160}{881}, \frac{135}{881}, \frac{241}{881})$ $+ \frac{2}{881}\sqrt{52647}e^5 \otimes e_6 + \frac{2}{881}\sqrt{75670}e^4 \otimes e_7$	{1245, 1678, 2579, 4689}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{2997}\sqrt{543318}e^{12}, \frac{2}{2997}\sqrt{547682}e^{14} + \frac{4}{2997}\sqrt{46913}e^{23},$ $\frac{26}{2997}\sqrt{1091}e^{13} + \frac{2}{2997}\sqrt{6546}e^{45}$	$(-\frac{172}{999}, -\frac{11}{2997}, \frac{656}{2997}, \frac{43}{111}, -\frac{1021}{2997}, \frac{1655}{2997}, -\frac{527}{2997}, \frac{215}{999}, \frac{140}{2997})$ $+ \frac{2}{2997}\sqrt{1464122}e^4 \otimes e_5 + \frac{4}{2997}\sqrt{365485}e^6 \otimes e_7$	{1246, 1578, 23478, 356}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:14	$0, 0, 0, 0, 0, 0, \frac{34}{1001}\sqrt{69}e^{12}, \frac{17}{1001}\sqrt{165}e^{14} + \frac{17}{1001}\sqrt{241}e^{23},$ $\frac{17}{1001}\sqrt{219}e^{13} + \frac{17}{1001}\sqrt{114}e^{45}$	$(\frac{68}{1001}, -\frac{170}{1001}, \frac{17}{91}, -\frac{51}{1001}, \frac{306}{1001}, -\frac{17}{77}, -\frac{102}{1001}, \frac{17}{1001}, \frac{255}{1001})$ $+ \frac{17}{1001}\sqrt{619}e^1 \otimes e_6 + \frac{51}{1001}\sqrt{61}e^5 \otimes e_8 + \frac{51}{1001}\sqrt{73}e^3 \otimes e_7$	{12345, 34689}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{739}\sqrt{25527}e^{12}, \frac{2}{739}\sqrt{8509}e^{14} + \frac{2}{739}\sqrt{9017}e^{23},$ $\frac{4}{739}\sqrt{4191}e^{13} + \frac{2}{739}\sqrt{17526}e^{45}$	$(\frac{75}{739}, \frac{207}{739}, -\frac{122}{739}, \frac{10}{739}, -\frac{57}{739}, -\frac{179}{739}, \frac{282}{739}, \frac{85}{739}, -\frac{47}{739})$ $+ \frac{2}{739}\sqrt{50546}e^2 \otimes e_9 + \frac{4}{739}\sqrt{8255}e^1 \otimes e_6$	{123, 1579, 2678, 35689}
93:14	$0, 0, 0, 0, 0, 0, \frac{35}{4177}\sqrt{2766}e^{12}, \frac{35}{4177}\sqrt{1934}e^{14} + \frac{35}{4177}\sqrt{1462}e^{23},$ $\frac{105}{4177}\sqrt{30}e^{13} + \frac{140}{4177}\sqrt{149}e^{45}$	$(-\frac{140}{4177}, \frac{630}{4177}, -\frac{455}{4177}, \frac{315}{4177}, \frac{910}{4177}, \frac{1715}{4177}, \frac{490}{4177}, \frac{175}{4177}, -\frac{595}{4177})$ $+ \frac{140}{4177}\sqrt{163}e^6 \otimes e_7 + \frac{35}{4177}\sqrt{258}e^4 \otimes e_5 + \frac{35}{4177}\sqrt{4666}e^2 \otimes e_9$	{1579, 35689}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{9869}e^{12}, \frac{2}{291}\sqrt{7923}e^{14} + \frac{2}{291}\sqrt{9869}e^{23},$ $\frac{16}{291}\sqrt{139}e^{13} + \frac{2}{291}\sqrt{1946}e^{45}$	$(-\frac{29}{291}, -\frac{31}{97}, \frac{52}{97}, \frac{92}{291}, \frac{35}{291}, \frac{49}{291}, -\frac{122}{291}, \frac{21}{97}, \frac{127}{291})$ $+ \frac{2}{291}\sqrt{278}e^3 \otimes e_7$	{123, 1236, 15679, 1579, 2678, 278, 35689, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{47897}e^{12}, \frac{1}{289}\sqrt{25197}e^{14} + \frac{1}{289}\sqrt{7491}e^{23},$ $\frac{1}{289}\sqrt{30191}e^{13} + \frac{10}{289}\sqrt{454}e^{45}$	$(-\frac{99}{578}, -\frac{44}{289}, \frac{128}{289}, \frac{267}{578}, -\frac{55}{289}, \frac{45}{289}, -\frac{11}{34}, \frac{84}{289}, \frac{157}{578})$ $+ \frac{2}{289}\sqrt{27694}e^4 \otimes e_7$	{1245, 12456, 1678, 178, 25679, 2579, 4689, 489}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{314}e^{12}, \frac{2}{287}\sqrt{6123}e^{14} + \frac{2}{287}\sqrt{314}e^{23},$ $\frac{8}{287}\sqrt{785}e^{13} + \frac{2}{287}\sqrt{12874}e^{45}$	$(\frac{6}{287}, \frac{45}{287}, -\frac{33}{287}, \frac{6}{287}, -\frac{33}{287}, 1, \frac{51}{287}, \frac{12}{287}, -\frac{27}{287})$ $+ \frac{2}{287}\sqrt{37366}e^6 \otimes e_9$	{1236, 12489, 1345678, 1579, 23479, 2678, 3589, 456}
93:14	$0, 0, 0, 0, 0, 0, \frac{23}{1332}\sqrt{235}e^{12}, \frac{23}{1332}\sqrt{222}e^{14} + \frac{23}{1332}\sqrt{235}e^{23},$ $\frac{23}{666}\sqrt{143}e^{13} + \frac{23}{1332}\sqrt{282}e^{45}$	$(-\frac{115}{888}, -\frac{115}{1332}, \frac{161}{888}, \frac{299}{1332}, -\frac{115}{666}, \frac{299}{666}, -\frac{575}{2664}, \frac{253}{2664}, \frac{23}{444})$ $+ \frac{115}{1332}\sqrt{42}e^3 \otimes e_7 + \frac{23}{1332}\sqrt{418}e^4 \otimes e_5 + \frac{23}{666}\sqrt{239}e^6 \otimes e_9$	{1579, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{2581}\sqrt{21210}e^{12}, \frac{8}{2581}\sqrt{10605}e^{14} + \frac{2}{2581}\sqrt{402990}e^{23},$ $\frac{2}{2581}\sqrt{340067}e^{13} + \frac{4}{2581}\sqrt{116655}e^{45}$	$(\frac{268}{2581}, -\frac{543}{2581}, \frac{208}{2581}, -\frac{603}{2581}, \frac{1079}{2581}, \frac{1139}{2581}, -\frac{275}{2581}, -\frac{335}{2581}, \frac{476}{2581})$ $+ \frac{14}{2581}\sqrt{20806}e^5 \otimes e_8 + \frac{2}{2581}\sqrt{595294}e^6 \otimes e_7$	{1268, 1457, 24789, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{69}e^{12}, \frac{8}{39}\sqrt{3}e^{14} + \frac{2}{39}\sqrt{69}e^{23},$ $\frac{2}{39}\sqrt{6}e^{13} + \frac{8}{39}\sqrt{21}e^{45}$	$(-\frac{1}{39}, -\frac{2}{39}, \frac{3}{13}, \frac{8}{39}, 0, -\frac{14}{39}, -\frac{1}{13}, \frac{7}{39}, \frac{8}{39})$ $+ \frac{2}{39}\sqrt{105}e^2 \otimes e_6 + \frac{4}{13}\sqrt{3}e^3 \otimes e_7$	{123, 15679, 278, 35689}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{2505}\sqrt{98987}e^{12}, \frac{2}{2505}\sqrt{18249}e^{14} + \frac{14}{2505}\sqrt{8927}e^{23},$ $\frac{8}{2505}\sqrt{2765}e^{13} + \frac{14}{2505}\sqrt{5846}e^{45}$	$(\frac{151}{2505}, -\frac{229}{835}, \frac{38}{167}, -\frac{268}{2505}, \frac{989}{2505}, \frac{283}{2505}, -\frac{536}{2505}, -\frac{39}{835}, \frac{721}{2505})$ $+ \frac{2}{2505}\sqrt{551894}e^3 \otimes e_7 + \frac{4}{835}\sqrt{18802}e^5 \otimes e_8$	{14567, 1457, 246789, 24789}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{891}\sqrt{29391}e^{12}, \frac{2}{891}\sqrt{33330}e^{14} + \frac{2}{297}\sqrt{4141}e^{23},$ $\frac{2}{891}\sqrt{45753}e^{13} + \frac{4}{891}\sqrt{4242}e^{45}$	$(-\frac{71}{891}, \frac{67}{891}, \frac{259}{891}, \frac{397}{891}, -\frac{19}{891}, -\frac{347}{891}, -\frac{4}{891}, \frac{326}{891}, \frac{188}{891})$ $+ \frac{2}{891}\sqrt{108474}e^4 \otimes e_5 + \frac{4}{891}\sqrt{33330}e^3 \otimes e_6$	{12347, 1358, 2468, 567}
93:14	$0, 0, 0, 0, 0, 0, \frac{18}{497}\sqrt{7}e^{12}, \frac{15}{497}\sqrt{11}e^{14} + \frac{18}{497}\sqrt{7}e^{23},$ $\frac{12}{497}\sqrt{7}e^{13} + \frac{6}{497}\sqrt{70}e^{45}$	$(-\frac{9}{497}, \frac{12}{497}, \frac{12}{497}, \frac{33}{497}, -\frac{30}{497}, -\frac{39}{497}, \frac{3}{497}, \frac{24}{497}, \frac{3}{497})$ $+ \frac{3}{497}\sqrt{149}e^5 \otimes e_6 - \frac{3}{497}\sqrt{317}e^3 \otimes e_7 + \frac{3}{497}\sqrt{457}e^2 \otimes e_9$	{1236, 1579, 2678, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{18}{497}\sqrt{7}e^{12}, \frac{15}{497}\sqrt{11}e^{14} + \frac{18}{497}\sqrt{7}e^{23},$ $\frac{12}{497}\sqrt{7}e^{13} + \frac{6}{497}\sqrt{70}e^{45}$	$(-\frac{9}{497}, \frac{12}{497}, \frac{12}{497}, \frac{33}{497}, -\frac{30}{497}, -\frac{39}{497}, \frac{3}{497}, \frac{24}{497}, \frac{3}{497})$ $+ \frac{3}{497}\sqrt{149}e^5 \otimes e_6 + \frac{3}{497}\sqrt{317}e^3 \otimes e_7 + \frac{3}{497}\sqrt{457}e^2 \otimes e_9$	{1236, 1579, 2678, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{59}\sqrt{34}e^{12}, \frac{2}{59}\sqrt{323}e^{14} + \frac{6}{59}\sqrt{34}e^{23},$ $\frac{2}{59}\sqrt{102}e^{13} + \frac{4}{59}\sqrt{102}e^{45}$	$(\frac{4}{59}, \frac{23}{59}, -\frac{15}{59}, \frac{4}{59}, -\frac{15}{59}, \frac{9}{59}, \frac{27}{59}, \frac{8}{59}, -\frac{11}{59})$ $+ \frac{10}{59}\sqrt{34}e^2 \otimes e_9$	{123, 1236, 15679, 1579, 2678, 278, 35689, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{13}{281}\sqrt{115}e^{12}, \frac{1}{281}\sqrt{18239}e^{14} + \frac{3}{281}\sqrt{5681}e^{23},$ $\frac{5}{281}\sqrt{2093}e^{13} + \frac{2}{281}\sqrt{598}e^{45}$	$(\frac{41}{562}, -\frac{8}{281}, \frac{108}{281}, \frac{159}{562}, \frac{49}{281}, \frac{191}{281}, \frac{25}{562}, \frac{100}{281}, \frac{257}{562})$ $+ \frac{2}{281}\sqrt{35282}e^3 \otimes e_6$	{12357, 12456789, 1348, 169, 23459, 2568, 3789, 467}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{3065}\sqrt{418065}e^{12}, \frac{2}{3065}\sqrt{83613}e^{14} + \frac{2}{3065}\sqrt{4151}e^{23},$ $\frac{8}{3065}\sqrt{30243}e^{13} + \frac{2}{3065}\sqrt{131646}e^{45}$	$(\frac{53}{3065}, -\frac{407}{3065}, \frac{832}{3065}, \frac{372}{3065}, \frac{513}{3065}, -\frac{1133}{3065}, -\frac{354}{3065}, \frac{85}{613}, \frac{177}{613})$ $+ \frac{6}{613}\sqrt{3558}e^3 \otimes e_7 + \frac{8}{3065}\sqrt{52777}e^1 \otimes e_6$	{12358, 1789, 2567, 369}
93:14	$0, 0, 0, 0, 0, 0, \frac{20}{889}\sqrt{62}e^{12}, \frac{10}{889}\sqrt{102}e^{14} + \frac{10}{889}\sqrt{111}e^{23},$ $\frac{10}{889}\sqrt{65}e^{13} + \frac{40}{889}\sqrt{22}e^{45}$	$(-\frac{15}{889}, \frac{55}{889}, \frac{20}{889}, \frac{90}{889}, -\frac{85}{889}, -\frac{135}{889}, \frac{40}{889}, \frac{75}{889}, \frac{5}{889})$ $+ \frac{10}{889}\sqrt{201}e^5 \otimes e_6 + \frac{10}{889}\sqrt{274}e^4 \otimes e_7 + \frac{20}{889}\sqrt{87}e^2 \otimes e_9$	{12458, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:14	$0, 0, 0, 0, 0, 0, \frac{40}{3069}\sqrt{1173}e^{12}, \frac{20}{3069}\sqrt{23}e^{14} + \frac{20}{3069}\sqrt{115}e^{23},$ $\frac{10}{3069}\sqrt{13547}e^{13} + \frac{10}{3069}\sqrt{28014}e^{45}$	$(\frac{20}{1023}, -\frac{545}{3069}, \frac{860}{3069}, \frac{85}{1023}, \frac{665}{3069}, -\frac{895}{3069}, -\frac{485}{3069}, \frac{35}{341}, \frac{920}{3069})$ $+ \frac{10}{3069}\sqrt{27278}e^4 \otimes e_6 + \frac{20}{3069}\sqrt{9154}e^5 \otimes e_7$	{2367, 24789, 3458, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{140}\sqrt{7710}e^{12}, \frac{1}{280}\sqrt{40863}e^{14} + \frac{1}{280}\sqrt{30326}e^{23},$ $\frac{1}{280}\sqrt{40863}e^{13} + \frac{1}{280}\sqrt{20046}e^{45}$	$(\frac{61}{280}, \frac{41}{280}, \frac{43}{560}, \frac{3}{560}, \frac{81}{280}, -\frac{7}{10}, \frac{51}{140}, \frac{25}{112}, \frac{33}{112})$ $+ \frac{1}{140}\sqrt{30583}e^1 \otimes e_6$	{12358, 12459, 1347, 1789, 23456789, 2567, 369, 468}
93:14	$0, 0, 0, 0, 0, 0, \frac{5}{6013}\sqrt{4174}e^{12}, \frac{5}{6013}\sqrt{2774}e^{14} + \frac{10}{6013}\sqrt{455}e^{23},$ $\frac{10}{6013}\sqrt{194}e^{13} + \frac{10}{6013}\sqrt{1298}e^{45}$	$(\frac{115}{6013}, \frac{45}{6013}, -\frac{95}{6013}, -\frac{165}{6013}, \frac{185}{6013}, -\frac{190}{6013}, \frac{160}{6013}, -\frac{50}{6013}, \frac{20}{6013})$ $+ \frac{10}{6013}\sqrt{1177}e^5 \otimes e_7 + \frac{5}{6013}\sqrt{1234}e^4 \otimes e_6 + \frac{5}{6013}\sqrt{5230}e^2 \otimes e_9$	{12458, 134789}
93:14	$0, 0, 0, 0, 0, 0, \frac{3}{284}\sqrt{8806}e^{12}, \frac{1}{284}\sqrt{15351}e^{14} + \frac{3}{142}\sqrt{119}e^{23},$ $\frac{1}{284}\sqrt{15351}e^{13} + \frac{1}{284}\sqrt{22134}e^{45}$	$(-\frac{9}{142}, -\frac{55}{284}, \frac{155}{568}, \frac{81}{568}, \frac{19}{284}, 1, -\frac{73}{284}, \frac{45}{568}, \frac{119}{568})$ $+ \frac{3}{142}\sqrt{4641}e^6 \otimes e_7$	{1234689, 126, 13579, 14578, 2378, 2479, 3456, 5689}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{286}\sqrt{25149}e^{12}, \frac{3}{572}\sqrt{581}e^{14} + \frac{1}{572}\sqrt{27390}e^{23},$ $\frac{3}{572}\sqrt{581}e^{13} + \frac{3}{572}\sqrt{5810}e^{45}$	$(\frac{71}{572}, -\frac{89}{572}, \frac{205}{1144}, -\frac{115}{1144}, \frac{21}{52}, -\frac{89}{286}, -\frac{9}{286}, \frac{27}{1144}, \frac{347}{1144})$ $+ \frac{1}{286}\sqrt{29382}e^1 \otimes e_6 + \frac{1}{286}\sqrt{34611}e^5 \otimes e_7$	{2346789, 267, 3569, 4568}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{2310}e^{12}, \frac{1}{97}\sqrt{165}e^{14} + \frac{11}{97}\sqrt{6}e^{23},$ $\frac{1}{97}\sqrt{1419}e^{13} + \frac{3}{97}\sqrt{187}e^{45}$	$(-\frac{13}{194}, \frac{3}{97}, \frac{20}{97}, \frac{59}{194}, -\frac{16}{97}, -\frac{30}{97}, -\frac{7}{140}, \frac{23}{97}, \frac{27}{194})$ $+ \frac{12}{97}\sqrt{22}e^4 \otimes e_7 + \frac{1}{97}\sqrt{2607}e^2 \otimes e_6$	{12349, 1356789, 237, 34568}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{2777}\sqrt{8763}e^{12}, \frac{6}{2777}\sqrt{9867}e^{14} + \frac{18}{2777}\sqrt{4531}e^{23},$ $\frac{54}{2777}\sqrt{46}e^{13} + \frac{48}{2777}\sqrt{966}e^{45}$	$(\frac{337}{2777}, -\frac{165}{2777}, -\frac{238}{2777}, -\frac{740}{2777}, \frac{839}{2777}, \frac{1341}{2777}, \frac{172}{2777}, -\frac{403}{2777}, \frac{99}{2777})$ $+ \frac{12}{2777}\sqrt{24771}e^5 \otimes e_8 + \frac{6}{2777}\sqrt{71898}e^6 \otimes e_9$	{12678, 1456, 2489, 579}
93:14	$0, 0, 0, 0, 0, 0, \frac{11}{97}\sqrt{6}e^{12}, \frac{1}{97}\sqrt{165}e^{14} + \frac{1}{97}\sqrt{2310}e^{23},$ $\frac{1}{97}\sqrt{1419}e^{13} + \frac{3}{97}\sqrt{187}e^{45}$	$(\frac{35}{194}, \frac{3}{97}, -\frac{4}{97}, -\frac{37}{194}, \frac{32}{97}, -\frac{30}{97}, \frac{41}{194}, -\frac{1}{97}, \frac{27}{194})$ $+ \frac{12}{97}\sqrt{22}e^5 \otimes e_8 + \frac{1}{97}\sqrt{2607}e^2 \otimes e_6$	{128, 14567, 24789, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{65}e^{12}, \frac{2}{169}\sqrt{65}e^{14} + \frac{6}{169}\sqrt{39}e^{23},$ $\frac{4}{169}\sqrt{39}e^{13} + \frac{6}{169}\sqrt{78}e^{45}$	$(-\frac{1}{13}, \frac{1}{13}, 0, \frac{2}{13}, -\frac{3}{13}, \frac{3}{13}, 0, \frac{1}{13}, -\frac{1}{13})$ $+ \frac{2}{169}\sqrt{910}e^2 \otimes e_9 + \frac{4}{169}\sqrt{195}e^4 \otimes e_7 + \frac{4}{169}\sqrt{78}e^6 \otimes e_8$	{12458, 469}
93:14	$0, 0, 0, 0, 0, 0, \frac{18}{2777}\sqrt{4531}e^{12}, \frac{6}{2777}\sqrt{9867}e^{14} + \frac{6}{2777}\sqrt{8763}e^{23},$ $\frac{54}{2777}\sqrt{46}e^{13} + \frac{48}{2777}\sqrt{966}e^{45}$	$(-\frac{381}{2777}, -\frac{165}{2777}, \frac{480}{2777}, \frac{696}{2777}, -\frac{597}{2777}, \frac{1341}{2777}, -\frac{546}{2777}, \frac{315}{2777}, \frac{99}{2777})$ $+ \frac{12}{2777}\sqrt{24771}e^4 \otimes e_7 + \frac{6}{2777}\sqrt{71898}e^6 \otimes e_9$	{12456, 1678, 2579, 489}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{3253}\sqrt{537438}e^{12}, \frac{2}{3253}\sqrt{397091}e^{14} + \frac{2}{3253}\sqrt{288358}e^{23},$ $\frac{2}{3253}\sqrt{54606}e^{13} + \frac{2}{3253}\sqrt{29219}e^{45}$	$(-\frac{80}{3253}, \frac{489}{3253}, -\frac{389}{3253}, \frac{180}{3253}, -\frac{649}{3253}, \frac{1367}{3253}, \frac{409}{3253}, \frac{100}{3253}, -\frac{469}{3253})$ $+ \frac{2}{3253}\sqrt{903394}e^2 \otimes e_9 + \frac{8}{3253}\sqrt{31135}e^6 \otimes e_7$	{1236, 1579, 278, 35689}
93:14	$0, 0, 0, 0, 0, 0, \frac{26}{3533}\sqrt{318}e^{12}, \frac{2}{3533}\sqrt{40755}e^{14} + \frac{6}{3533}\sqrt{2678}e^{23},$ $\frac{6}{3533}\sqrt{754}e^{13} + \frac{24}{3533}\sqrt{429}e^{45}$	$(\frac{112}{3533}, \frac{17}{3533}, -\frac{173}{3533}, -\frac{268}{3533}, \frac{207}{3533}, \frac{271}{3533}, \frac{129}{3533}, -\frac{156}{3533}, -\frac{61}{3533})$ $+ \frac{26}{3533}\sqrt{402}e^2 \otimes e_9 + \frac{8}{3533}\sqrt{3705}e^5 \otimes e_7$	{124568, 12458, 1346789, 134789}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{608}\sqrt{58233}e^{12}, \frac{1}{608}\sqrt{23954}e^{14} + \frac{1}{608}\sqrt{58233}e^{23},$ $\frac{1}{304}\sqrt{15694}e^{13} + \frac{1}{608}\sqrt{9086}e^{45}$	$(-\frac{207}{1216}, -\frac{69}{608}, \frac{481}{1216}, \frac{275}{608}, -\frac{69}{304}, \frac{9}{76}, -\frac{345}{1216}, \frac{343}{1216}, \frac{137}{608})$ $+ \frac{1}{608}\sqrt{182546}e^4 \otimes e_5 + \frac{21}{608}\sqrt{590}e^3 \otimes e_7$	{1234, 12346, 24678, 2478}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{39}e^{12}, \frac{18}{79}\sqrt{2}e^{14} + \frac{6}{79}\sqrt{39}e^{23},$ $\frac{12}{79}\sqrt{3}e^{13} + \frac{12}{79}\sqrt{3}e^{45}$	$(-\frac{1}{79}, \frac{23}{79}, \frac{5}{79}, \frac{29}{79}, -\frac{25}{79}, -\frac{31}{79}, \frac{22}{79}, \frac{28}{79}, \frac{4}{79})$ $+ \frac{12}{79}\sqrt{30}e^2 \otimes e_6 + \frac{18}{79}\sqrt{10}e^4 \otimes e_5$	{12349, 1356789, 24789, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{105}e^{12}, \frac{2}{55}\sqrt{770}e^{14} + \frac{2}{55}\sqrt{105}e^{23},$ $\frac{2}{55}\sqrt{35}e^{13} + \frac{4}{55}\sqrt{35}e^{45}$	$(-\frac{9}{55}, \frac{3}{11}, \frac{13}{55}, \frac{37}{55}, -\frac{3}{5}, \frac{9}{55}, \frac{6}{55}, \frac{28}{55}, \frac{4}{55})$ $+ \frac{2}{55}\sqrt{1610}e^4 \otimes e_5$	{12467, 1247, 1568, 158, 23468, 2348, 3567, 357}
93:14	$0, 0, 0, 0, 0, 0, \frac{58}{939}\sqrt{33}e^{12}, \frac{2}{939}\sqrt{8265}e^{14} + \frac{2}{313}\sqrt{1247}e^{23},$ $\frac{4}{939}\sqrt{1131}e^{13} + \frac{2}{939}\sqrt{31494}e^{45}$	$(-\frac{79}{939}, \frac{37}{313}, \frac{16}{939}, \frac{206}{939}, -\frac{269}{939}, \frac{31}{313}, \frac{32}{939}, \frac{127}{939}, -\frac{21}{313})$ $+ \frac{2}{939}\sqrt{40542}e^2 \otimes e_9 + \frac{4}{939}\sqrt{8265}e^4 \otimes e_7$	{124568, 12458, 469, 49}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{873}\sqrt{21691}e^{12}, \frac{2}{873}\sqrt{25179}e^{14} + \frac{2}{873}\sqrt{21691}e^{23},$ $\frac{2}{291}\sqrt{218}e^{13} + \frac{2}{873}\sqrt{39458}e^{45}$	$(\frac{11}{97}, \frac{185}{873}, -\frac{44}{291}, -\frac{46}{873}, \frac{13}{873}, -\frac{205}{873}, \frac{284}{873}, \frac{53}{873}, -\frac{11}{291})$ $+ \frac{2}{873}\sqrt{31610}e^5 \otimes e_6 + \frac{2}{873}\sqrt{54282}e^2 \otimes e_9$	{1236, 1579, 2678, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{2}e^{12}, \frac{1}{39}\sqrt{30}e^{14} + \frac{1}{39}\sqrt{78}e^{23},$ $\frac{2}{39}\sqrt{3}e^{13} + \frac{1}{39}\sqrt{66}e^{45}$	$(\frac{1}{13}, \frac{1}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{1}{13}, -\frac{2}{13}, \frac{2}{13}, 0, 0)$ $+ \frac{1}{13}\sqrt{6}e^3 \otimes e_6 + \frac{1}{39}\sqrt{66}e^5 \otimes e_8 + \frac{4}{39}\sqrt{6}e^2 \otimes e_9$	{15679, 2678}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{839}\sqrt{2135}e^{12}, \frac{2}{839}\sqrt{28731}e^{14} + \frac{6}{839}\sqrt{2135}e^{23},$ $\frac{4}{839}\sqrt{10065}e^{13} + \frac{6}{839}\sqrt{2562}e^{45}$	$(-\frac{83}{839}, -\frac{125}{839}, \frac{158}{839}, \frac{116}{839}, -\frac{41}{839}, \frac{441}{839}, -\frac{208}{839}, \frac{33}{839}, \frac{75}{839})$ $+ \frac{2}{839}\sqrt{72834}e^3 \otimes e_7 + \frac{4}{839}\sqrt{16287}e^6 \otimes e_9$	{1236, 1579, 2678, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{7}{215}\sqrt{209}e^{12}, \frac{1}{215}\sqrt{4389}e^{14} + \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{2}{215}\sqrt{1463}e^{13} + \frac{2}{215}\sqrt{2926}e^{45}$	$(-\frac{9}{86}, -\frac{28}{215}, \frac{88}{215}, \frac{33}{86}, -\frac{17}{215}, -\frac{9}{43}, -\frac{101}{839}, \frac{12}{43}, \frac{131}{430})$ $+ \frac{12}{215}\sqrt{133}e^3 \otimes e_6 + \frac{2}{215}\sqrt{7714}e^4 \otimes e_7$	{12349, 135789, 237, 3458}
93:14	$0, 0, 0, 0, 0, 0, \frac{40}{3069}\sqrt{1173}e^{12}, \frac{10}{3069}\sqrt{13547}e^{14} + \frac{20}{3069}\sqrt{115}e^{23},$ $\frac{20}{3069}\sqrt{23}e^{13} + \frac{10}{3069}\sqrt{28014}e^{45}$	$(\frac{20}{1023}, -\frac{545}{3069}, \frac{89}{1023}, -\frac{338}{3069}, \frac{665}{3069}, \frac{1477}{3069}, -\frac{485}{3069}, -\frac{278}{3069}, \frac{109}{1023})$ $+ \frac{10}{3069}\sqrt{27278}e^6 \otimes e_9 + \frac{20}{3069}\sqrt{9154}e^5 \otimes e_7$	{23479, 2678, 3589, 456}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{761}\sqrt{3255}e^{12}, \frac{2}{761}\sqrt{28427}e^{14} + \frac{6}{761}\sqrt{3255}e^{23},$ $\frac{4}{761}\sqrt{3255}e^{13} + \frac{10}{761}\sqrt{1302}e^{45}$	$(\frac{23}{761}, -\frac{183}{761}, \frac{274}{761}, \frac{68}{761}, \frac{229}{761}, -\frac{205}{761}, -\frac{160}{761}, \frac{91}{761}, \frac{297}{761})$ $+ \frac{2}{761}\sqrt{82894}e^3 \otimes e_7 + \frac{4}{761}\sqrt{15841}e^5 \otimes e_6$	{1236, 1579, 2678, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{1463}\sqrt{834}e^{12}, \frac{3}{1463}\sqrt{2298}e^{14} + \frac{6}{1463}\sqrt{330}e^{23},$ $\frac{18}{1463}\sqrt{7}e^{13} + \frac{9}{1463}\sqrt{402}e^{45}$	$(\frac{3}{77}, \frac{15}{1463}, -\frac{69}{1463}, -\frac{111}{1463}, \frac{9}{133}, \frac{30}{1463}, \frac{72}{1463}, -\frac{54}{1463}, -\frac{12}{1463})$ $+ \frac{3}{1463}\sqrt{3558}e^5 \otimes e_7 + \frac{3}{1463}\sqrt{474}e^1 \otimes e_6 + \frac{6}{1463}\sqrt{1023}e^2 \otimes e_9$	{12458, 134789}
93:14	$0, 0, 0, 0, 0, 0, \frac{54}{2753}\sqrt{177}e^{12}, \frac{162}{2753}\sqrt{13}e^{14} + \frac{54}{2753}\sqrt{761}e^{23},$ $\frac{216}{2753}\sqrt{11}e^{13} + \frac{54}{2753}\sqrt{2}e^{45}$	$(-\frac{171}{2753}, -\frac{639}{2753}, \frac{648}{2753}, \frac{180}{2753}, \frac{297}{2753}, \frac{1467}{2753}, -\frac{810}{2753}, \frac{9}{2753}, \frac{477}{2753})$ $+ \frac{216}{2753}\sqrt{73}e^6 \otimes e_8 + \frac{54}{2753}\sqrt{1286}e^3 \otimes e_7$	{123456, 14679, 24578, 3489}
93:14	$0, 0, 0, 0, 0, 0, \frac{3}{427}\sqrt{4994}e^{12}, \frac{1}{427}\sqrt{34958}e^{14} + \frac{3}{427}\sqrt{4994}e^{23},$ $\frac{1}{427}\sqrt{14982}e^{13} + \frac{2}{427}\sqrt{14982}e^{45}$	$(\frac{2}{427}, \frac{22}{61}, -\frac{75}{427}, \frac{11}{61}, -\frac{150}{427}, \frac{57}{427}, \frac{156}{427}, \frac{79}{427}, -\frac{73}{427})$ $+ \frac{1}{427}\sqrt{133930}e^2 \otimes e_9 + \frac{5}{427}\sqrt{1362}e^4 \otimes e_5$	{15679, 1579, 35689, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{264}{4949}e^{12}, \frac{99}{4949}\sqrt{190}e^{14} + \frac{198}{4949}\sqrt{59}e^{23},$ $\frac{33}{4949}\sqrt{1434}e^{13} + \frac{66}{4949}\sqrt{685}e^{45}$	$(\frac{297}{4949}, -\frac{627}{4949}, \frac{759}{4949}, -\frac{165}{4949}, \frac{1221}{4949}, -\frac{1254}{4949}, \frac{330}{4949}, \frac{132}{4949}, \frac{1056}{4949})$ $+ \frac{33}{4949}\sqrt{1402}e^3 \otimes e_7 + \frac{33}{4949}\sqrt{3314}e^4 \otimes e_6 + \frac{66}{4949}\sqrt{1094}e^5 \otimes e_8$	{12678, 5679}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{7491}e^{12}, \frac{1}{289}\sqrt{25197}e^{14} + \frac{1}{289}\sqrt{47897}e^{23},$ $\frac{1}{289}\sqrt{30191}e^{13} + \frac{10}{289}\sqrt{454}e^{45}$	$(\frac{145}{578}, -\frac{44}{289}, \frac{6}{289}, -\frac{13}{34}, \frac{189}{289}, \frac{45}{289}, \frac{57}{578}, -\frac{38}{289}, \frac{157}{578})$ $+ \frac{2}{289}\sqrt{27694}e^5 \otimes e_8$	{12678, 1278, 145, 1456, 24689, 2489, 5679, 579}
93:14	$0, 0, 0, 0, 0, 0, \frac{99}{613}\sqrt{2}e^{12}, \frac{6}{613}\sqrt{327}e^{14} + \frac{12}{613}\sqrt{186}e^{23},$ $\frac{3}{613}\sqrt{582}e^{13} + \frac{3}{613}\sqrt{3702}e^{45}$	$(\frac{36}{613}, \frac{36}{613}, -\frac{81}{613}, -\frac{81}{613}, \frac{36}{613}, \frac{153}{613}, \frac{72}{613}, -\frac{45}{613}, -\frac{45}{613})$ $+ \frac{3}{613}\sqrt{3414}e^5 \otimes e_8 + \frac{3}{613}\sqrt{4866}e^2 \otimes e_9 + \frac{9}{613}\sqrt{202}e^6 \otimes e_7$	{134789, 23457}
93:14	$0, 0, 0, 0, 0, 0, \frac{6}{3377}\sqrt{23959}e^{12}, \frac{2}{307}\sqrt{7410}e^{14} + \frac{38}{3377}\sqrt{1209}e^{23},$ $\frac{6}{3377}\sqrt{44213}e^{13} + \frac{12}{3377}\sqrt{10127}e^{45}$	$(-\frac{7}{3377}, \frac{569}{3377}, \frac{323}{3377}, \frac{899}{3377}, -\frac{53}{307}, -\frac{1489}{3377}, \frac{562}{3377}, \frac{892}{3377}, \frac{316}{3377})$ $+ \frac{2}{3377}\sqrt{997386}e^4 \otimes e_5 + \frac{8}{3377}\sqrt{81510}e^1 \otimes e_6$	{12358, 1347, 2567, 468}
93:14	$0, 0, 0, 0, 0, 0, \frac{9}{221}\sqrt{6}e^{12}, \frac{27}{221}\sqrt{10}e^{14} + \frac{18}{221}\sqrt{19}e^{23},$ $\frac{18}{221}e^{13} + \frac{18}{221}\sqrt{5}e^{45}$	$(-\frac{27}{221}, -\frac{18}{221}, \frac{36}{221}, \frac{45}{221}, -\frac{36}{221}, \frac{99}{221}, -\frac{45}{221}, \frac{18}{221}, \frac{9}{221})$ $+ \frac{18}{221}\sqrt{41}e^6 \otimes e_8 + \frac{27}{221}\sqrt{14}e^4 \otimes e_5 + \frac{9}{221}\sqrt{118}e^3 \otimes e_7$	{1358, 567}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{38}e^{12}, \frac{1}{27}\sqrt{114}e^{14} + \frac{1}{27}\sqrt{38}e^{23},$ $\frac{1}{27}\sqrt{38}e^{13} + \frac{1}{27}\sqrt{114}e^{45}$	$(-\frac{1}{9}, \frac{5}{27}, 0, \frac{8}{27}, -\frac{11}{27}, \frac{16}{27}, \frac{2}{27}, \frac{5}{27}, -\frac{1}{9})$ $+ \frac{1}{27}\sqrt{418}e^4 \otimes e_5 + \frac{1}{27}\sqrt{494}e^6 \otimes e_9$	{12479, 1589, 23489, 3579}
93:14	$0, 0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{3}e^{14} + \frac{1}{3}\sqrt{6}e^{23},$ $\frac{1}{3}\sqrt{3}e^{13} + \frac{1}{3}\sqrt{3}e^{45}$	$(\frac{1}{6}, \frac{1}{3}, 0, \frac{1}{6}, 0, -\frac{2}{3}, \frac{1}{2}, \frac{1}{3}, \frac{1}{6})$ $+ \frac{1}{3}\sqrt{15}e^2 \otimes e_6$	{12359, 12458, 1346789, 167, 23457, 25789, 368, 469}
93:14	$0, 0, 0, 0, 0, 0, \frac{7}{587}\sqrt{1166}e^{12}, \frac{1}{587}\sqrt{8162}e^{14} + \frac{7}{587}\sqrt{1166}e^{23},$ $\frac{1}{587}\sqrt{24486}e^{13} + \frac{4}{587}\sqrt{4081}e^{45}$	$(-\frac{48}{587}, -\frac{81}{587}, \frac{242}{587}, \frac{209}{587}, -\frac{15}{587}, -\frac{162}{587}, -\frac{129}{587}, \frac{161}{587}, \frac{194}{587})$ $+ \frac{1}{587}\sqrt{174370}e^4 \otimes e_6 + \frac{3}{587}\sqrt{23002}e^3 \otimes e_7$	{12345, 1479, 24578, 3489}
93:14	$0, 0, 0, 0, 0, 0, \frac{8}{957}\sqrt{527}e^{12}, \frac{2}{957}\sqrt{8835}e^{14} + \frac{8}{957}\sqrt{527}e^{23},$ $\frac{8}{957}\sqrt{4774}e^{13} + \frac{4}{957}\sqrt{1829}e^{45}$	$(-\frac{62}{957}, \frac{1}{29}, \frac{1}{29}, \frac{128}{957}, -\frac{157}{957}, \frac{79}{957}, -\frac{1}{33}, \frac{2}{29}, -\frac{1}{33})$ $+ \frac{2}{957}\sqrt{15438}e^2 \otimes e_9 - \frac{4}{957}\sqrt{2945}e^3 \otimes e_7$	{123, 1236, 15679, 1579, 2678, 278, 35689, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:14	$0, 0, 0, 0, 0, 0, \frac{8}{957}\sqrt{527e^{12}}, \frac{2}{957}\sqrt{8835e^{14}} + \frac{8}{957}\sqrt{527e^{23}},$ $\frac{2}{957}\sqrt{4774e^{13}} + \frac{4}{957}\sqrt{1829e^{45}}$	$(-\frac{62}{957}, \frac{1}{29}, \frac{1}{29}, \frac{128}{957}, -\frac{157}{957}, \frac{79}{957}, -\frac{1}{33}, \frac{2}{29}, -\frac{1}{33})$ $+\frac{2}{957}\sqrt{15438e^2} \otimes e_9 + \frac{4}{957}\sqrt{2945e^3} \otimes e_7$	{123, 1236, 15679, 1579, 2678, 278, 35689, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{22}{1047}\sqrt{102e^{12}}, \frac{11}{1047}\sqrt{402e^{14}} + \frac{22}{349}\sqrt{39e^{23}},$ $\frac{11}{1047}\sqrt{30e^{13}} + \frac{1047}{1047}\sqrt{219e^{45}}$	$(-\frac{11}{349}, \frac{66}{349}, -\frac{44}{349}, \frac{33}{349}, -\frac{88}{349}, \frac{143}{349}, \frac{55}{349}, \frac{22}{349}, -\frac{55}{349})$ $+\frac{11}{1047}\sqrt{1290e^4} \otimes e_5 + \frac{11}{1047}\sqrt{2418e^2} \otimes e_9 + \frac{1047}{1047}\sqrt{498e^6} \otimes e_8$	{135789, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{3613}\sqrt{362498e^{12}}, \frac{2}{3613}\sqrt{1180266e^{14}} + \frac{12}{3613}\sqrt{11167e^{23}},$ $\frac{34}{3613}\sqrt{859e^{13}} + \frac{2}{3613}\sqrt{228494e^{45}}$	$(-\frac{376}{3613}, \frac{241}{3613}, \frac{108}{3613}, \frac{725}{3613}, -\frac{993}{3613}, \frac{2067}{3613}, -\frac{135}{3613}, \frac{349}{3613}, -\frac{268}{3613})$ $+\frac{2}{3613}\sqrt{1328014e^4} \otimes e_5 + \frac{4}{3613}\sqrt{382255e^6} \otimes e_8$	{12578, 146, 2356, 3478}
93:14	$0, 0, 0, 0, 0, 0, \frac{8}{777}\sqrt{554e^{12}}, \frac{32}{777}\sqrt{15e^{14}} + \frac{8}{777}\sqrt{1010e^{23}},$ $\frac{16}{777}\sqrt{59e^{13}} + \frac{8}{777}\sqrt{542e^{45}}$	$(\frac{40}{777}, -\frac{24}{259}, \frac{32}{259}, -\frac{16}{777}, \frac{152}{777}, -\frac{200}{777}, -\frac{32}{777}, \frac{8}{259}, \frac{136}{777})$ $+\frac{16}{777}\sqrt{230e^3} \otimes e_7 + \frac{32}{777}\sqrt{57e^5} \otimes e_8 + \frac{8}{777}\sqrt{1038e^2} \otimes e_6$	{12359, 368}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{2985}\sqrt{409015e^{12}}, \frac{2}{2985}\sqrt{337723e^{14}} + \frac{2}{2985}\sqrt{211591e^{23}},$ $\frac{4}{2985}\sqrt{2742e^{13}} + \frac{4}{2985}\sqrt{35646e^{45}}$	$(-\frac{103}{2985}, -\frac{163}{2985}, \frac{236}{995}, \frac{216}{995}, -\frac{2985}{2985}, -\frac{339}{995}, -\frac{266}{2985}, \frac{109}{597}, \frac{121}{597})$ $+\frac{2}{2985}\sqrt{587702e^1} \otimes e_6 + \frac{2}{2985}\sqrt{653510e^4} \otimes e_7$	{1249, 15789, 267, 4568}
93:14	$0, 0, 0, 0, 0, 0, \frac{3}{49}\sqrt{35e^{12}}, \frac{5}{49}\sqrt{21e^{14}} + \frac{3}{49}\sqrt{21e^{23}},$ $\frac{1}{49}\sqrt{399e^{13}} + \frac{3}{49}\sqrt{42e^{45}}$	$(-\frac{11}{98}, -\frac{1}{7}, \frac{10}{49}, \frac{17}{98}, -\frac{4}{49}, \frac{24}{49}, -\frac{25}{98}, \frac{3}{49}, \frac{9}{98})$ $+\frac{1}{49}\sqrt{798e^6} \otimes e_8 + \frac{5}{49}\sqrt{42e^4} \otimes e_7$	{123469, 135789, 2367, 3458}
93:14	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{314e^{12}}, \frac{8}{287}\sqrt{785e^{14}} + \frac{2}{287}\sqrt{314e^{23}},$ $\frac{2}{287}\sqrt{6123e^{13}} + \frac{2}{287}\sqrt{12874e^{45}}$	$(\frac{6}{287}, \frac{45}{287}, \frac{86}{287}, \frac{125}{287}, -\frac{33}{287}, -\frac{27}{41}, \frac{51}{287}, \frac{131}{287}, \frac{92}{287})$ $+\frac{2}{287}\sqrt{37366e^4} \otimes e_6$	{12349, 1268, 1356789, 1457, 2367, 24789, 3458, 569}
93:14	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{687e^{12}}, \frac{27}{1289}\sqrt{78e^{14}} + \frac{36}{1289}\sqrt{46e^{23}},$ $\frac{9}{1289}\sqrt{385e^{13}} + \frac{18}{1289}\sqrt{151e^{45}}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{36}{1289}, \frac{153}{1289}, -\frac{198}{1289}, \frac{153}{1289}, -\frac{45}{1289}, \frac{72}{1289}, -\frac{45}{1289})$ $+\frac{27}{1289}\sqrt{143e^2} \otimes e_9 + \frac{63}{1289}\sqrt{2e^6} \otimes e_8 + \frac{9}{1289}\sqrt{985e^3} \otimes e_7$	{1236, 15679, 278, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{312}{3197}\sqrt{6e^{12}}, \frac{6}{3197}\sqrt{32331e^{14}} + \frac{36}{3197}\sqrt{1079e^{23}},$ $\frac{6}{3197}\sqrt{24258e^{13}} + \frac{12}{3197}\sqrt{7293e^{45}}$	$(\frac{86}{3197}, \frac{625}{3197}, -\frac{163}{3197}, \frac{376}{3197}, -\frac{453}{3197}, -\frac{865}{3197}, \frac{711}{3197}, \frac{462}{3197}, -\frac{77}{3197})$ $+\frac{12}{3197}\sqrt{11310e^3} \otimes e_6 + \frac{78}{3197}\sqrt{402e^2} \otimes e_9$	{123, 15679, 2678, 3589}
93:14	$0, 0, 0, 0, 0, 0, \frac{114}{2713}\sqrt{15e^{12}}, \frac{38}{2713}\sqrt{139e^{14}} + \frac{190}{2713}\sqrt{23e^{23}},$ $\frac{76}{2713}\sqrt{55e^{13}} + \frac{38}{2713}\sqrt{602e^{45}}$	$(\frac{19}{2713}, -\frac{475}{2713}, \frac{266}{2713}, -\frac{228}{2713}, \frac{513}{2713}, \frac{1007}{2713}, -\frac{456}{2713}, -\frac{209}{2713}, \frac{285}{2713})$ $+\frac{152}{2713}\sqrt{55e^5} \otimes e_8 + \frac{38}{2713}\sqrt{826e^3} \otimes e_7 + \frac{76}{2713}\sqrt{193e^6} \otimes e_9$	{1579, 2678}
93:14	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{687e^{12}}, \frac{27}{1289}\sqrt{78e^{14}} + \frac{36}{1289}\sqrt{46e^{23}},$ $\frac{9}{1289}\sqrt{385e^{13}} + \frac{18}{1289}\sqrt{151e^{45}}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{36}{1289}, \frac{153}{1289}, -\frac{198}{1289}, \frac{153}{1289}, -\frac{45}{1289}, \frac{72}{1289}, -\frac{45}{1289})$ $+\frac{27}{1289}\sqrt{143e^2} \otimes e_9 + \frac{63}{1289}\sqrt{2e^6} \otimes e_8 - \frac{9}{1289}\sqrt{985e^3} \otimes e_7$	{1236, 15679, 278, 3589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42e^{12}}, \frac{1}{35}\sqrt{14e^{13}} + \frac{2}{35}\sqrt{42e^{24}},$ $\frac{1}{35}\sqrt{42e^{15}} + \frac{2}{35}\sqrt{7e^{34}}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+\frac{1}{35}\sqrt{182e^2} \otimes e_9 + \frac{1}{35}\sqrt{42e^3} \otimes e_6 + \frac{4}{35}\sqrt{14e^5} \otimes e_8$	{238, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{131}\sqrt{4242e^{12}}, \frac{1}{131}\sqrt{2310e^{13}} + \frac{2}{131}\sqrt{105e^{24}},$ $\frac{21}{131}\sqrt{6e^{15}} + \frac{2}{131}\sqrt{966e^{34}}$	$(\frac{53}{131}, -\frac{13}{131}, -\frac{22}{131}, \frac{44}{131}, -\frac{31}{131}, -\frac{40}{131}, \frac{40}{131}, \frac{31}{131}, \frac{22}{131})$ $+\frac{3}{131}\sqrt{1022e^4} \otimes e_6 + \frac{6}{131}\sqrt{287e^1} \otimes e_5$	{1234, 1268, 3458, 56}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{329e^{12}}, \frac{7}{43}\sqrt{3e^{13}} + \frac{1}{43}\sqrt{413e^{24}},$ $\frac{2}{43}\sqrt{133e^{15}} + \frac{1}{43}\sqrt{210e^{34}}$	$(-\frac{35}{172}, \frac{3}{172}, \frac{6}{43}, -\frac{7}{86}, \frac{45}{172}, \frac{33}{86}, -\frac{8}{43}, -\frac{11}{172}, \frac{5}{86})$ $+\frac{1}{43}\sqrt{357e^6} \otimes e_9 + \frac{1}{43}\sqrt{742e^5} \otimes e_8$	{12789, 1356, 2368, 579}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110e^{12}}, \frac{2}{131}\sqrt{851e^{13}} + \frac{6}{131}\sqrt{74e^{24}},$ $\frac{2}{131}\sqrt{222e^{15}} + \frac{2}{131}\sqrt{1110e^{34}}$	$(\frac{2}{131}, -\frac{33}{131}, \frac{8}{131}, \frac{43}{131}, \frac{49}{131}, -\frac{25}{131}, -\frac{31}{131}, \frac{10}{131}, \frac{51}{131})$ $+\frac{4}{131}\sqrt{370e^5} \otimes e_6 + \frac{4}{131}\sqrt{703e^4} \otimes e_7$	{12469, 157, 2678, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{21e^{12}}, \frac{1}{14}\sqrt{42e^{13}} + \frac{3}{14}\sqrt{7e^{24}},$ $\frac{1}{7}\sqrt{14e^{15}} + \frac{1}{7}\sqrt{21e^{34}}$	$(-\frac{1}{4}, 0, \frac{1}{4}, 0, \frac{1}{2}, 0, -\frac{1}{4}, 0, \frac{1}{4})$ $+\frac{1}{14}\sqrt{154e^3} \otimes e_7 + \frac{1}{14}\sqrt{21e^5} \otimes e_6$	{12359, 1678, 257, 3689}
93:15	$0, 0, 0, 0, 0, 0, \frac{16}{1103}\sqrt{30e^{12}}, \frac{2}{1103}\sqrt{1595e^{13}} + \frac{2}{1103}\sqrt{1090e^{24}},$ $\frac{4}{1103}\sqrt{65e^{15}} + \frac{16}{1103}\sqrt{30e^{34}}$	$(-\frac{36}{1103}, \frac{3}{1103}, \frac{16}{1103}, -\frac{23}{1103}, \frac{29}{1103}, \frac{81}{1103}, -\frac{33}{1103}, -\frac{20}{1103}, -\frac{7}{1103})$ $+\frac{2}{1103}\sqrt{2490e^4} \otimes e_7 + \frac{4}{1103}\sqrt{655e^2} \otimes e_9$	{2678, 278, 45689, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:15	$0, 0, 0, 0, 0, \frac{6}{329}\sqrt{481}e^{12}, \frac{6}{329}\sqrt{1961}e^{13} + \frac{3}{329}\sqrt{4958}e^{24},$ $\frac{3}{329}\sqrt{4958}e^{15} + \frac{3}{329}\sqrt{8806}e^{34}$	$(-\frac{15}{329}, \frac{13}{47}, \frac{104}{329}, -\frac{2}{329}, \frac{117}{329}, -\frac{229}{329}, \frac{76}{329}, \frac{89}{329}, \frac{102}{329})$ $+ \frac{9}{329}\sqrt{2294}e^3 \otimes e_6$	{12359, 1245689, 1347, 1678, 234578, 2567, 389, 469}
93:15	$0, 0, 0, 0, 0, \frac{16}{2681}\sqrt{9534}e^{12}, \frac{2}{2681}\sqrt{186594}e^{13} + \frac{4}{2681}\sqrt{8853}e^{24},$ $\frac{6}{2681}\sqrt{25197}e^{15} + \frac{2}{2681}\sqrt{60609}e^{34}$	$(\frac{689}{2681}, \frac{467}{2681}, -\frac{103}{2681}, \frac{17}{383}, -\frac{673}{2681}, -\frac{895}{2681}, \frac{1156}{2681}, \frac{586}{2681}, \frac{16}{2681})$ $+ \frac{6}{2681}\sqrt{87395}e^2 \otimes e_6 + \frac{6}{2681}\sqrt{95794}e^1 \otimes e_5$	{1234, 128, 34568, 56}
93:15	$0, 0, 0, 0, 0, \frac{2}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{7}e^{24},$ $\frac{1}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{42}e^{34}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{182}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_8 + \frac{4}{35}\sqrt{14}e^3 \otimes e_7$	{2567, 389}
93:15	$0, 0, 0, 0, 0, \frac{1}{29}\sqrt{285}e^{12}, \frac{1}{29}\sqrt{323}e^{13} + \frac{1}{29}\sqrt{285}e^{24},$ $\frac{1}{29}\sqrt{285}e^{15} + \frac{1}{29}\sqrt{285}e^{34}$	$(-\frac{2}{29}, \frac{14}{29}, \frac{11}{58}, -\frac{21}{58}, -\frac{3}{29}, \frac{9}{58}, \frac{12}{29}, \frac{7}{58}, -\frac{5}{29})$ $+ \frac{7}{29}\sqrt{19}e^2 \otimes e_9$	{23467, 2347, 2678, 278, 3569, 359, 45689, 4589}
93:15	$0, 0, 0, 0, 0, \frac{1}{70}\sqrt{219}e^{12}, \frac{1}{70}\sqrt{102}e^{13} + \frac{1}{70}\sqrt{66}e^{24},$ $\frac{1}{70}\sqrt{219}e^{15} + \frac{1}{70}\sqrt{66}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^1 \otimes e_6 - \frac{1}{70}\sqrt{255}e^5 \otimes e_7 + \frac{1}{70}\sqrt{321}e^2 \otimes e_9$	{23467, 2678, 3569, 45689}
93:15	$0, 0, 0, 0, 0, \frac{1}{70}\sqrt{219}e^{12}, \frac{1}{70}\sqrt{102}e^{13} + \frac{1}{70}\sqrt{66}e^{24},$ $\frac{1}{70}\sqrt{219}e^{15} + \frac{1}{70}\sqrt{66}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^1 \otimes e_6 + \frac{1}{70}\sqrt{255}e^5 \otimes e_7 + \frac{1}{70}\sqrt{321}e^2 \otimes e_9$	{23467, 2678, 3569, 45689}
93:15	$0, 0, 0, 0, 0, \frac{2}{131}\sqrt{966}e^{12}, \frac{1}{131}\sqrt{2310}e^{13} + \frac{21}{131}\sqrt{6}e^{24},$ $\frac{1}{131}\sqrt{105}e^{15} + \frac{1}{131}\sqrt{4242}e^{34}$	$(-\frac{49}{262}, \frac{15}{262}, \frac{149}{524}, \frac{21}{524}, \frac{67}{131}, -\frac{187}{524}, -\frac{17}{131}, \frac{51}{524}, \frac{85}{262})$ $+ \frac{3}{131}\sqrt{1022}e^5 \otimes e_7 + \frac{6}{131}\sqrt{287}e^3 \otimes e_6$	{23478, 267, 3589, 4569}
93:15	$0, 0, 0, 0, 0, \frac{2}{281}\sqrt{2170}e^{12}, \frac{6}{281}\sqrt{186}e^{13} + \frac{12}{281}\sqrt{186}e^{24},$ $\frac{18}{281}\sqrt{62}e^{15} + \frac{2}{281}\sqrt{2170}e^{34}$	$(-\frac{43}{281}, -\frac{43}{281}, \frac{38}{281}, \frac{38}{281}, \frac{119}{281}, \frac{30}{281}, -\frac{86}{281}, -\frac{5}{281}, \frac{76}{281})$ $+ \frac{18}{281}\sqrt{62}e^4 \otimes e_7 + \frac{4}{281}\sqrt{2635}e^5 \otimes e_8$	{126789, 12789, 5679, 579}
93:15	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{7}e^{13} + \frac{2}{25}\sqrt{15}e^{24},$ $\frac{2}{25}\sqrt{6}e^{15} + \frac{2}{25}\sqrt{6}e^{34}$	$(\frac{2}{25}, \frac{4}{25}, -\frac{1}{25}, -\frac{3}{25}, -\frac{6}{25}, \frac{9}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{37}e^2 \otimes e_9 + \frac{6}{25}\sqrt{3}e^1 \otimes e_5 + \frac{6}{25}\sqrt{3}e^6 \otimes e_8$	{13679, 14789}
93:15	$0, 0, 0, 0, 0, \frac{1}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{42}e^{24},$ $\frac{2}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{7}e^{34}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{210}e^5 \otimes e_8 + \frac{1}{35}\sqrt{42}e^6 \otimes e_7 + \frac{2}{5}e^2 \otimes e_9$	{12457, 134689}
93:15	$0, 0, 0, 0, 0, \frac{33}{449}\sqrt{5}e^{12}, \frac{33}{449}e^{13} + \frac{11}{449}\sqrt{219}e^{24},$ $\frac{22}{449}\sqrt{57}e^{15} + \frac{22}{449}\sqrt{10}e^{34}$	$(-\frac{99}{898}, -\frac{99}{898}, \frac{22}{449}, \frac{22}{449}, \frac{187}{898}, \frac{165}{449}, -\frac{99}{449}, -\frac{55}{898}, \frac{44}{449})$ $+ \frac{11}{449}\sqrt{255}e^6 \otimes e_9 + \frac{22}{449}\sqrt{57}e^4 \otimes e_7 + \frac{22}{449}\sqrt{85}e^5 \otimes e_8$	{123789, 3579}
93:15	$0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{1954}e^{12}, \frac{30}{2411}\sqrt{62}e^{13} + \frac{60}{2411}\sqrt{35}e^{24},$ $\frac{30}{2411}\sqrt{962}e^{15} + \frac{30}{2411}\sqrt{1318}e^{34}$	$(\frac{651}{2411}, -\frac{683}{2411}, -\frac{466}{2411}, \frac{868}{2411}, -\frac{249}{2411}, \frac{224}{2411}, -\frac{32}{2411}, \frac{185}{2411}, \frac{402}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^1 \otimes e_5 + \frac{90}{2411}\sqrt{274}e^4 \otimes e_7$	{1678, 178, 2567, 257}
93:15	$0, 0, 0, 0, 0, \frac{6}{307}\sqrt{187}e^{12}, \frac{12}{307}\sqrt{221}e^{13} + \frac{6}{307}\sqrt{187}e^{24},$ $\frac{21}{307}\sqrt{17}e^{15} + \frac{21}{307}\sqrt{17}e^{34}$	$(\frac{66}{307}, -\frac{16}{307}, -\frac{103}{614}, \frac{61}{614}, -\frac{87}{307}, \frac{335}{614}, \frac{50}{307}, \frac{29}{614}, -\frac{21}{307})$ $+ \frac{9}{307}\sqrt{527}e^1 \otimes e_5 + \frac{9}{307}\sqrt{527}e^6 \otimes e_8$	{1367, 1478, 23578, 24567}
93:15	$0, 0, 0, 0, 0, \frac{1}{107}\sqrt{4510}e^{12}, \frac{3}{107}\sqrt{330}e^{13} + \frac{6}{107}\sqrt{165}e^{24},$ $\frac{6}{107}\sqrt{165}e^{15} + \frac{3}{107}\sqrt{4510}e^{34}$	$(-\frac{28}{107}, -\frac{1}{107}, \frac{26}{107}, -\frac{1}{107}, \frac{53}{107}, \frac{12}{107}, -\frac{29}{107}, -\frac{2}{107}, \frac{25}{107})$ $+ \frac{5}{107}\sqrt{418}e^5 \otimes e_8$	{126789, 12789, 135, 1356, 2368, 238, 5679, 579}
93:15	$0, 0, 0, 0, 0, \frac{1}{131}\sqrt{4242}e^{12}, \frac{1}{131}\sqrt{2310}e^{13} + \frac{21}{131}\sqrt{6}e^{24},$ $\frac{2}{131}\sqrt{105}e^{15} + \frac{2}{131}\sqrt{966}e^{34}$	$(\frac{139}{524}, \frac{21}{524}, -\frac{22}{131}, \frac{15}{262}, -\frac{197}{524}, \frac{139}{262}, \frac{40}{131}, \frac{51}{524}, -\frac{29}{262})$ $+ \frac{3}{131}\sqrt{1022}e^6 \otimes e_9 + \frac{6}{131}\sqrt{287}e^1 \otimes e_5$	{1239, 12489, 3589, 459}
93:15	$0, 0, 0, 0, 0, \frac{2}{823}\sqrt{28135}e^{12}, \frac{2}{823}\sqrt{18105}e^{13} + \frac{2}{823}\sqrt{20315}e^{24},$ $\frac{24}{823}\sqrt{85}e^{15} + \frac{4}{823}\sqrt{5015}e^{34}$	$(-\frac{52}{823}, -\frac{29}{823}, \frac{89}{823}, \frac{66}{823}, \frac{207}{823}, -\frac{222}{823}, -\frac{81}{823}, \frac{37}{823}, \frac{155}{823})$ $+ \frac{10}{823}\sqrt{1615}e^3 \otimes e_7 + \frac{10}{823}\sqrt{969}e^1 \otimes e_6$	{12359, 178, 2567, 3689}
93:15	$0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31}e^{12}, \frac{1}{85}\sqrt{2139}e^{13} + \frac{1}{85}\sqrt{93}e^{24},$ $\frac{12}{85}\sqrt{31}e^{15} + \frac{1}{85}\sqrt{93}e^{34}$	$(-\frac{22}{85}, -\frac{2}{17}, \frac{3}{10}, \frac{27}{170}, \frac{61}{85}, \frac{29}{170}, -\frac{32}{85}, \frac{7}{170}, \frac{39}{85})$ $+ \frac{3}{85}\sqrt{1457}e^5 \otimes e_7$	{23467, 2347, 2678, 278, 3569, 359, 45689, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:15	$0, 0, 0, 0, 0, 0, \frac{19}{1757}\sqrt{670}e^{12}, \frac{38}{1757}\sqrt{87}e^{13} + \frac{342}{1757}\sqrt{3}e^{24},$ $\frac{19}{1757}\sqrt{138}e^{15} + \frac{38}{1757}\sqrt{69}e^{34}$	$(-\frac{95}{1757}, -\frac{95}{1757}, \frac{171}{1757}, \frac{171}{1757}, \frac{437}{1757}, -\frac{456}{1757}, -\frac{190}{1757}, \frac{76}{1757}, \frac{342}{1757})$ $+ \frac{19}{1757}\sqrt{1182}e^2 \otimes e_6 + \frac{19}{1757}\sqrt{742}e^5 \otimes e_8 + \frac{38}{1757}\sqrt{330}e^4 \otimes e_7$	{1567, 278}
93:15	$0, 0, 0, 0, 0, 0, \frac{5}{77}\sqrt{6}e^{12}, \frac{5}{154}\sqrt{66}e^{13} + \frac{15}{154}\sqrt{10}e^{24},$ $\frac{5}{77}\sqrt{6}e^{15} + \frac{5}{154}\sqrt{82}e^{34}$	$(-\frac{15}{154}, -\frac{15}{154}, \frac{10}{77}, \frac{10}{77}, \frac{5}{14}, -\frac{15}{77}, -\frac{15}{77}, \frac{5}{154}, \frac{20}{77})$ $+ \frac{15}{154}\sqrt{22}e^4 \otimes e_7 + \frac{5}{154}\sqrt{174}e^3 \otimes e_6 + \frac{5}{154}\sqrt{190}e^5 \otimes e_8$	{12345, 348}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{337}\sqrt{2255}e^{12}, \frac{1}{337}\sqrt{16851}e^{13} + \frac{1}{337}\sqrt{5781}e^{24},$ $\frac{1}{337}\sqrt{1722}e^{15} + \frac{5}{337}\sqrt{1230}e^{34}$	$(\frac{23}{674}, -\frac{147}{674}, -\frac{24}{337}, \frac{61}{337}, \frac{51}{674}, \frac{160}{337}, \frac{62}{337}, -\frac{25}{674}, \frac{37}{337})$ $+ \frac{3}{337}\sqrt{3485}e^6 \otimes e_9 + \frac{3}{337}\sqrt{4838}e^4 \otimes e_7$	{1249, 1567, 2678, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{518}e^{12}, \frac{2}{67}\sqrt{119}e^{13} + \frac{2}{67}\sqrt{70}e^{24},$ $\frac{1}{67}\sqrt{518}e^{15} + \frac{2}{67}\sqrt{70}e^{34}$	$(-\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{1}{67}\sqrt{714}e^5 \otimes e_7 + \frac{1}{67}\sqrt{994}e^2 \otimes e_9$	{23467, 2347, 2678, 278, 3569, 359, 45689, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{518}e^{12}, \frac{2}{67}\sqrt{119}e^{13} + \frac{2}{67}\sqrt{70}e^{24},$ $\frac{1}{67}\sqrt{518}e^{15} + \frac{2}{67}\sqrt{70}e^{34}$	$(-\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $- \frac{1}{67}\sqrt{714}e^5 \otimes e_7 + \frac{1}{67}\sqrt{994}e^2 \otimes e_9$	{23467, 2347, 2678, 278, 3569, 359, 45689, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{4}{35}\sqrt{7}e^{12}, \frac{1}{5}\sqrt{2}e^{13} + \frac{2}{35}\sqrt{21}e^{24},$ $\frac{3}{35}\sqrt{14}e^{15} + \frac{2}{35}\sqrt{14}e^{34}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{238}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_8 - \frac{2}{35}\sqrt{42}e^5 \otimes e_7$	{23467, 278, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{4}{35}\sqrt{7}e^{12}, \frac{1}{5}\sqrt{2}e^{13} + \frac{2}{35}\sqrt{21}e^{24},$ $\frac{3}{35}\sqrt{14}e^{15} + \frac{2}{35}\sqrt{14}e^{34}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{238}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_8 + \frac{2}{35}\sqrt{42}e^5 \otimes e_7$	{23467, 278, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{7}e^{24},$ $\frac{1}{35}\sqrt{14}e^{15} + \frac{2}{35}\sqrt{42}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{210}e^3 \otimes e_7 + \frac{1}{35}\sqrt{42}e^5 \otimes e_6 + \frac{2}{5}e^2 \otimes e_9$	{123468, 14579}
93:15	$0, 0, 0, 0, 0, 0, \frac{6}{107}\sqrt{165}e^{12}, \frac{3}{107}\sqrt{330}e^{13} + \frac{1}{107}\sqrt{4510}e^{24},$ $\frac{1}{107}\sqrt{4510}e^{15} + \frac{6}{107}\sqrt{165}e^{34}$	$(-\frac{28}{107}, -\frac{1}{107}, \frac{26}{107}, -\frac{107}{107}, \frac{53}{107}, \frac{12}{107}, -\frac{29}{107}, -\frac{2}{107}, \frac{25}{107})$ $+ \frac{5}{107}\sqrt{418}e^3 \otimes e_7$	{123569, 12359, 1678, 178, 2567, 257, 3689, 389}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{267}\sqrt{25530}e^{12}, \frac{20}{267}\sqrt{23}e^{13} + \frac{1}{267}\sqrt{12190}e^{24},$ $\frac{1}{267}\sqrt{12190}e^{15} + \frac{1}{267}\sqrt{6670}e^{34}$	$(\frac{56}{267}, -\frac{37}{267}, -\frac{16}{89}, \frac{15}{89}, -\frac{59}{267}, \frac{134}{267}, \frac{19}{267}, \frac{8}{267}, -\frac{1}{89})$ $+ \frac{1}{267}\sqrt{25990}e^6 \otimes e_7 + \frac{1}{267}\sqrt{30590}e^1 \otimes e_5$	{1347, 178, 234578, 257}
93:15	$0, 0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31}e^{12}, \frac{1}{85}\sqrt{2139}e^{13} + \frac{12}{85}\sqrt{31}e^{24},$ $\frac{1}{85}\sqrt{93}e^{15} + \frac{1}{85}\sqrt{93}e^{34}$	$(\frac{3}{170}, \frac{37}{85}, \frac{3}{10}, -\frac{2}{17}, \frac{14}{85}, -\frac{56}{85}, \frac{77}{170}, \frac{27}{85}, \frac{31}{170})$ $+ \frac{3}{85}\sqrt{1457}e^2 \otimes e_6$	{12389, 1249, 1345678, 1567, 2347, 278, 3569, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{14}e^{12}, \frac{1}{14}\sqrt{42}e^{13} + \frac{1}{7}\sqrt{21}e^{24},$ $\frac{1}{7}\sqrt{21}e^{15} + \frac{1}{14}\sqrt{7}e^{34}$	$(-\frac{1}{4}, -\frac{1}{28}, \frac{3}{14}, 0, \frac{13}{28}, \frac{3}{14}, -\frac{2}{7}, -\frac{1}{28}, \frac{3}{14})$ $+ \frac{1}{14}\sqrt{154}e^5 \otimes e_8 + \frac{1}{14}\sqrt{21}e^6 \otimes e_7$	{12789, 1356, 2368, 579}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{51}e^{13} + \frac{1}{35}\sqrt{42}e^{24},$ $\frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{42}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^4 \otimes e_6 + \frac{1}{35}\sqrt{51}e^5 \otimes e_7 + \frac{1}{35}\sqrt{93}e^2 \otimes e_9$	{2347, 2678, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{51}e^{13} + \frac{1}{35}\sqrt{42}e^{24},$ $\frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{42}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^4 \otimes e_6 - \frac{1}{35}\sqrt{51}e^5 \otimes e_7 + \frac{1}{35}\sqrt{93}e^2 \otimes e_9$	{2347, 2678, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{413}e^{12}, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{329}e^{24},$ $\frac{1}{43}\sqrt{210}e^{15} + \frac{1}{43}\sqrt{133}e^{34}$	$(-\frac{35}{172}, \frac{3}{172}, \frac{6}{43}, -\frac{7}{86}, \frac{45}{172}, \frac{33}{86}, -\frac{8}{43}, -\frac{11}{172}, \frac{5}{86})$ $+ \frac{1}{43}\sqrt{357}e^6 \otimes e_9 + \frac{1}{43}\sqrt{742}e^3 \otimes e_7$	{12359, 1678, 2567, 389}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{85}\sqrt{93}e^{12}, \frac{1}{85}\sqrt{2139}e^{13} + \frac{1}{85}\sqrt{93}e^{24},$ $\frac{12}{85}\sqrt{31}e^{15} + \frac{12}{85}\sqrt{31}e^{34}$	$(\frac{3}{170}, \frac{27}{170}, \frac{2}{85}, -\frac{2}{17}, -\frac{19}{170}, 1, \frac{3}{17}, \frac{7}{170}, -\frac{8}{85})$ $+ \frac{3}{85}\sqrt{1457}e^6 \otimes e_9$	{12389, 1249, 1345678, 1567, 23467, 2678, 359, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{427}\sqrt{210}e^{12}, \frac{1}{427}\sqrt{723}e^{13} + \frac{6}{427}\sqrt{14}e^{24},$ $\frac{2}{427}\sqrt{42}e^{15} + \frac{2}{427}\sqrt{210}e^{34}$	$(-\frac{17}{427}, \frac{4}{427}, \frac{11}{427}, -\frac{10}{427}, \frac{18}{427}, \frac{15}{427}, -\frac{13}{427}, -\frac{6}{427}, \frac{1}{427})$ $+ \frac{1}{427}\sqrt{110}e^4 \otimes e_7 + \frac{1}{427}\sqrt{1185}e^2 \otimes e_9 + \frac{1}{427}\sqrt{93}e^5 \otimes e_6$	{2678, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:15	$0, 0, 0, 0, 0, 0, \frac{304}{1757}\sqrt{2}e^{12}, \frac{19}{1757}\sqrt{834}e^{13} + \frac{342}{1757}\sqrt{3}e^{24},$ $\frac{38}{1757}\sqrt{330}e^{15} + \frac{19}{1757}\sqrt{906}e^{34}$	$(-\frac{95}{1757}, -\frac{95}{1757}, \frac{171}{1757}, \frac{171}{1757}, \frac{437}{1757}, -\frac{456}{1757}, -\frac{190}{1757}, \frac{76}{1757}, \frac{342}{1757})$ $+ \frac{19}{1757}\sqrt{1182}e^1 \otimes e_6 + \frac{19}{1757}\sqrt{138}e^4 \otimes e_7 + \frac{38}{1757}\sqrt{481}e^5 \otimes e_8$	{12789, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{105}e^{12}, \frac{5}{79}\sqrt{14}e^{13} + \frac{4}{79}\sqrt{105}e^{24},$ $\frac{5}{79}\sqrt{42}e^{15} + \frac{2}{79}\sqrt{105}e^{34}$	$(-\frac{7}{79}, \frac{22}{79}, \frac{8}{79}, -\frac{21}{79}, -\frac{6}{79}, \frac{36}{79}, \frac{15}{79}, \frac{1}{79}, -\frac{13}{79})$ $+ \frac{1}{79}\sqrt{3010}e^2 \otimes e_9 + \frac{3}{79}\sqrt{210}e^6 \otimes e_8$	{23467, 278, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{35}e^{12}, \frac{1}{35}\sqrt{17}e^{13} + \frac{1}{35}\sqrt{59}e^{24},$ $\frac{2}{35}\sqrt{19}e^{15} + \frac{1}{35}\sqrt{26}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^1 \otimes e_6 + \frac{1}{35}\sqrt{59}e^2 \otimes e_9 + \frac{1}{35}\sqrt{85}e^5 \otimes e_8$	{2368, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{35}e^{12}, \frac{1}{35}\sqrt{17}e^{13} + \frac{2}{35}\sqrt{19}e^{24},$ $\frac{1}{35}\sqrt{59}e^{15} + \frac{2}{35}\sqrt{2}e^{34}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^4 \otimes e_6 + \frac{2}{35}\sqrt{17}e^5 \otimes e_8 + \frac{2}{35}\sqrt{19}e^2 \otimes e_9$	{268, 35679}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{16422}e^{12}, \frac{2}{935}\sqrt{33971}e^{13} + \frac{8}{935}\sqrt{2093}e^{24},$ $\frac{2}{935}\sqrt{50554}e^{15} + \frac{2}{935}\sqrt{16422}e^{34}$	$(-\frac{112}{935}, \frac{307}{935}, \frac{202}{935}, -\frac{217}{935}, \frac{97}{935}, -\frac{45}{935}, \frac{39}{935}, \frac{18}{935}, -\frac{3}{935})$ $+ \frac{2}{935}\sqrt{51198}e^5 \otimes e_6 + \frac{4}{935}\sqrt{21091}e^2 \otimes e_9$	{23467, 2678, 359, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{329}\sqrt{8806}e^{12}, \frac{6}{329}\sqrt{1961}e^{13} + \frac{3}{329}\sqrt{4958}e^{24},$ $\frac{3}{329}\sqrt{4958}e^{15} + \frac{6}{329}\sqrt{481}e^{34}$	$(\frac{171}{329}, -\frac{2}{329}, -\frac{82}{329}, \frac{13}{329}, -\frac{162}{329}, \frac{50}{329}, \frac{169}{329}, \frac{89}{329}, \frac{9}{329})$ $+ \frac{9}{329}\sqrt{2294}e^1 \otimes e_5$	{13467, 1347, 1678, 178, 2345678, 234578, 2567, 257}
93:15	$0, 0, 0, 0, 0, 0, \frac{14}{473}\sqrt{246}e^{12}, \frac{28}{473}\sqrt{66}e^{13} + \frac{14}{473}\sqrt{282}e^{24},$ $\frac{14}{473}\sqrt{282}e^{15} + \frac{28}{473}\sqrt{41}e^{34}$	$(-\frac{105}{473}, \frac{27}{473}, \frac{118}{473}, -\frac{14}{473}, \frac{19}{473}, -\frac{78}{473}, -\frac{78}{473}, \frac{13}{473}, \frac{104}{473})$ $+ \frac{14}{473}\sqrt{246}e^3 \otimes e_6 + \frac{14}{473}\sqrt{610}e^5 \otimes e_8$	{126789, 135, 238, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{2}e^{13} + \frac{2}{35}\sqrt{14}e^{24},$ $\frac{4}{35}\sqrt{7}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{238}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^3 \otimes e_6 - \frac{2}{35}\sqrt{42}e^5 \otimes e_7$	{2347, 2678, 359, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{2}e^{13} + \frac{2}{35}\sqrt{14}e^{24},$ $\frac{4}{35}\sqrt{7}e^{15} + \frac{2}{35}\sqrt{21}e^{34}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{238}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^3 \otimes e_6 + \frac{2}{35}\sqrt{42}e^5 \otimes e_7$	{2347, 2678, 359, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{210}e^{12}, \frac{7}{43}\sqrt{3}e^{13} + \frac{2}{43}\sqrt{133}e^{24},$ $\frac{1}{43}\sqrt{413}e^{15} + \frac{1}{43}\sqrt{329}e^{34}$	$(-\frac{35}{172}, \frac{5}{43}, \frac{41}{172}, -\frac{7}{86}, \frac{31}{86}, -\frac{9}{43}, -\frac{15}{172}, \frac{3}{86}, \frac{27}{172})$ $+ \frac{1}{43}\sqrt{357}e^2 \otimes e_6 + \frac{1}{43}\sqrt{742}e^5 \otimes e_8$	{12789, 1356, 238, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{17}{1097}\sqrt{655}e^{12}, \frac{17}{1097}\sqrt{137}e^{13} + \frac{17}{1097}\sqrt{21}e^{24},$ $\frac{34}{1097}\sqrt{38}e^{15} + \frac{34}{1097}\sqrt{163}e^{34}$	$(\frac{357}{2194}, -\frac{459}{2194}, -\frac{170}{1097}, \frac{238}{1097}, -\frac{221}{2194}, \frac{357}{1097}, -\frac{51}{1097}, \frac{17}{2194}, \frac{68}{1097})$ $+ \frac{119}{1097}\sqrt{11}e^6 \otimes e_9 + \frac{34}{1097}\sqrt{137}e^1 \otimes e_5 + \frac{34}{1097}\sqrt{233}e^4 \otimes e_7$	{123468, 3456}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{83}\sqrt{510}e^{12}, \frac{2}{83}\sqrt{255}e^{13} + \frac{2}{83}\sqrt{663}e^{24},$ $\frac{12}{83}\sqrt{51}e^{15} + \frac{2}{83}\sqrt{510}e^{34}$	$(-\frac{7}{83}, \frac{11}{83}, \frac{29}{83}, \frac{11}{83}, \frac{47}{83}, -\frac{55}{83}, \frac{4}{83}, \frac{22}{83}, \frac{40}{83})$ $+ \frac{6}{83}\sqrt{391}e^5 \otimes e_6$	{123578, 12457, 134689, 169, 23459, 2589, 367, 4678}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{329}e^{12}, \frac{7}{43}\sqrt{3}e^{13} + \frac{2}{43}\sqrt{133}e^{24},$ $\frac{1}{43}\sqrt{413}e^{15} + \frac{1}{43}\sqrt{210}e^{34}$	$(-\frac{9}{86}, -\frac{7}{86}, \frac{6}{43}, \frac{5}{43}, \frac{31}{86}, -\frac{9}{43}, -\frac{8}{43}, \frac{3}{86}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{357}e^4 \otimes e_6 + \frac{1}{43}\sqrt{742}e^5 \otimes e_8$	{126789, 1356, 2368, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{85}\sqrt{93}e^{12}, \frac{1}{85}\sqrt{2139}e^{13} + \frac{12}{85}\sqrt{31}e^{24},$ $\frac{12}{85}\sqrt{93}e^{15} + \frac{12}{85}\sqrt{31}e^{34}$	$(\frac{5}{17}, -\frac{2}{17}, \frac{2}{85}, \frac{37}{85}, \frac{14}{85}, -\frac{56}{85}, \frac{3}{17}, \frac{27}{85}, \frac{39}{85})$ $+ \frac{3}{85}\sqrt{1457}e^4 \otimes e_6$	{123689, 1249, 134578, 1567, 2347, 2678, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{14}{625}\sqrt{546}e^{12}, \frac{14}{625}\sqrt{291}e^{13} + \frac{28}{625}\sqrt{66}e^{24},$ $\frac{28}{625}\sqrt{66}e^{15} + \frac{42}{625}\sqrt{2}e^{34}$	$(-\frac{112}{625}, \frac{73}{625}, \frac{164}{625}, -\frac{21}{625}, \frac{51}{125}, -\frac{221}{625}, -\frac{39}{625}, \frac{52}{625}, \frac{143}{625})$ $+ \frac{42}{625}\sqrt{94}e^2 \otimes e_6 + \frac{42}{625}\sqrt{94}e^5 \otimes e_7$	{12358, 1245, 1346789, 1679}
93:15	$0, 0, 0, 0, 0, 0, \frac{12}{83}\sqrt{51}e^{12}, \frac{2}{83}\sqrt{255}e^{13} + \frac{2}{83}\sqrt{510}e^{24},$ $\frac{2}{83}\sqrt{510}e^{15} + \frac{2}{83}\sqrt{663}e^{34}$	$(-\frac{7}{83}, -\frac{12}{83}, \frac{6}{83}, \frac{11}{83}, \frac{24}{83}, 1, -\frac{19}{83}, -\frac{1}{83}, \frac{17}{83})$ $+ \frac{6}{83}\sqrt{391}e^6 \otimes e_7$	{123468, 126, 135789, 14579, 2379, 24789, 3456, 568}
93:15	$0, 0, 0, 0, 0, 0, \frac{3}{329}\sqrt{4958}e^{12}, \frac{6}{329}\sqrt{1961}e^{13} + \frac{3}{329}\sqrt{8806}e^{24},$ $\frac{6}{329}\sqrt{481}e^{15} + \frac{3}{329}\sqrt{4958}e^{34}$	$(-\frac{15}{329}, -\frac{2}{329}, \frac{11}{329}, -\frac{2}{329}, \frac{24}{329}, 1, -\frac{17}{329}, -\frac{4}{329}, \frac{9}{329})$ $+ \frac{9}{329}\sqrt{2294}e^6 \otimes e_8$	{1234679, 12789, 1356, 1458, 238, 246, 345789, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{50554}e^{12}, \frac{2}{935}\sqrt{33971}e^{13} + \frac{2}{935}\sqrt{16422}e^{24},$ $\frac{2}{935}\sqrt{16422}e^{15} + \frac{8}{935}\sqrt{2093}e^{34}$	$(-\frac{112}{935}, \frac{201}{935}, \frac{96}{935}, -\frac{217}{935}, -\frac{9}{935}, \frac{411}{935}, \frac{89}{935}, -\frac{16}{935}, -\frac{11}{85})$ $+ \frac{2}{935}\sqrt{51198}e^6 \otimes e_7 + \frac{4}{935}\sqrt{21091}e^2 \otimes e_9$	{2347, 278, 3569, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{67}\sqrt{70}e^{12}, \frac{2}{67}\sqrt{119}e^{13} + \frac{1}{67}\sqrt{518}e^{24},$ $\frac{2}{67}\sqrt{70}e^{15} + \frac{1}{67}\sqrt{518}e^{34}$	$(\frac{3}{67}, \frac{13}{67}, \frac{9}{134}, -\frac{11}{134}, -\frac{4}{67}, -\frac{39}{134}, \frac{16}{67}, \frac{15}{134}, -\frac{1}{67})$ $+ \frac{1}{67}\sqrt{714}e^4 \otimes e_6 + \frac{1}{67}\sqrt{994}e^2 \otimes e_9$	{2347, 2678, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{65}\sqrt{61}e^{12}, \frac{1}{65}\sqrt{39}e^{13} + \frac{1}{65}\sqrt{46}e^{24},$ $\frac{1}{65}\sqrt{46}e^{15} + \frac{2}{65}\sqrt{11}e^{34}$	$(\frac{3}{130}, -\frac{9}{130}, -\frac{2}{65}, \frac{4}{65}, \frac{130}{65}, \frac{3}{65}, -\frac{3}{65}, -\frac{1}{130}, \frac{2}{65})$ $+ \frac{1}{65}\sqrt{51}e^1 \otimes e_5 + \frac{1}{65}\sqrt{73}e^3 \otimes e_7$	{1678, 178, 2567, 257}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{343}\sqrt{48990}e^{12}, \frac{1}{343}\sqrt{57270}e^{13} + \frac{12}{343}\sqrt{115}e^{24},$ $\frac{1}{343}\sqrt{48990}e^{15} + \frac{12}{343}\sqrt{115}e^{34}$	$(\frac{118}{343}, \frac{11}{343}, -\frac{1}{343}, \frac{106}{343}, -\frac{13}{343}, -\frac{227}{343}, \frac{129}{343}, \frac{117}{343}, \frac{15}{49})$ $+ \frac{12}{343}\sqrt{874}e^1 \otimes e_6$	{1235, 12458, 13479, 1789, 23456789, 25679, 368, 46}
93:15	$0, 0, 0, 0, 0, 0, \frac{80}{3269}\sqrt{285}e^{12}, \frac{10}{3269}\sqrt{10155}e^{13} + \frac{50}{3269}\sqrt{390}e^{24},$ $\frac{40}{3269}\sqrt{330}e^{15} + \frac{300}{3269}\sqrt{13}e^{34}$	$(\frac{76}{3269}, -\frac{295}{3269}, \frac{160}{3269}, \frac{531}{3269}, \frac{615}{3269}, -\frac{1045}{3269}, -\frac{219}{3269}, \frac{236}{3269}, \frac{691}{3269})$ $+ \frac{30}{3269}\sqrt{2830}e^4 \otimes e_7 + \frac{60}{3269}\sqrt{545}e^2 \otimes e_6$	{12459, 167, 2578, 4689}
93:15	$0, 0, 0, 0, 0, 0, \frac{5}{79}\sqrt{42}e^{12}, \frac{5}{79}\sqrt{14}e^{13} + \frac{2}{79}\sqrt{105}e^{24},$ $\frac{2}{79}\sqrt{105}e^{15} + \frac{4}{79}\sqrt{105}e^{34}$	$(-\frac{7}{79}, \frac{31}{79}, \frac{17}{79}, -\frac{21}{79}, \frac{3}{79}, -\frac{18}{79}, \frac{24}{79}, \frac{10}{79}, -\frac{4}{79})$ $+ \frac{1}{79}\sqrt{3010}e^2 \otimes e_9 + \frac{3}{79}\sqrt{210}e^3 \otimes e_6$	{2347, 2678, 359, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{7}{3485}\sqrt{3454}e^{12}, \frac{14}{3485}\sqrt{519}e^{13} + \frac{7}{3485}\sqrt{2654}e^{24},$ $\frac{21}{3485}\sqrt{286}e^{15} + \frac{14}{3485}\sqrt{629}e^{34}$	$(\frac{91}{3485}, -\frac{14}{205}, -\frac{98}{3485}, \frac{231}{3485}, \frac{42}{3485}, \frac{42}{3485}, -\frac{147}{3485}, -\frac{7}{3485}, \frac{133}{3485})$ $+ \frac{14}{3485}\sqrt{1018}e^3 \otimes e_7 + \frac{28}{3485}\sqrt{15}e^6 \otimes e_8 + \frac{7}{3485}\sqrt{2814}e^1 \otimes e_5$	{1678, 257}
93:15	$0, 0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{1318}e^{12}, \frac{30}{2411}\sqrt{62}e^{13} + \frac{60}{2411}\sqrt{35}e^{24},$ $\frac{30}{2411}\sqrt{962}e^{15} + \frac{30}{2411}\sqrt{1954}e^{34}$	$(\frac{15}{2411}, -\frac{365}{2411}, \frac{170}{2411}, \frac{550}{2411}, \frac{705}{2411}, -\frac{730}{2411}, -\frac{350}{2411}, \frac{185}{2411}, \frac{720}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^3 \otimes e_6 + \frac{90}{2411}\sqrt{274}e^4 \otimes e_7$	{1245689, 1678, 2567, 469}
93:15	$0, 0, 0, 0, 0, 0, \frac{12}{67}\sqrt{5}e^{12}, \frac{4}{67}\sqrt{69}e^{13} + \frac{16}{67}\sqrt{3}e^{24},$ $\frac{16}{67}\sqrt{3}e^{15} + \frac{12}{67}\sqrt{5}e^{34}$	$(\frac{14}{67}, \frac{6}{67}, -\frac{2}{67}, \frac{6}{67}, -\frac{10}{67}, -\frac{26}{67}, \frac{20}{67}, \frac{12}{67}, \frac{4}{67})$ $+ \frac{4}{67}\sqrt{93}e^1 \otimes e_5 + \frac{4}{67}\sqrt{93}e^3 \otimes e_6$	{1347, 1678, 234578, 2567}
93:15	$0, 0, 0, 0, 0, 0, \frac{21}{1069}\sqrt{782}e^{12}, \frac{1}{1069}\sqrt{29946}e^{13} + \frac{4}{1069}\sqrt{2415}e^{24},$ $\frac{1}{1069}\sqrt{10626}e^{15} + \frac{56}{1069}\sqrt{69}e^{34}$	$(\frac{202}{1069}, -\frac{279}{1069}, -\frac{75}{1069}, \frac{406}{1069}, \frac{129}{1069}, -\frac{281}{1069}, -\frac{77}{1069}, \frac{127}{1069}, \frac{331}{1069})$ $+ \frac{21}{1069}\sqrt{874}e^1 \otimes e_6 + \frac{276}{1069}\sqrt{7}e^4 \otimes e_7$	{12459, 17, 25678, 4689}
93:15	$0, 0, 0, 0, 0, 0, \frac{11}{1615}\sqrt{3486}e^{12}, \frac{22}{1615}\sqrt{141}e^{13} + \frac{11}{1615}\sqrt{102}e^{24},$ $\frac{11}{1615}\sqrt{102}e^{15} + \frac{66}{1615}\sqrt{47}e^{34}$	$(\frac{77}{1615}, \frac{154}{1615}, -\frac{66}{1615}, -\frac{143}{1615}, -\frac{286}{1615}, \frac{594}{1615}, \frac{231}{1615}, \frac{11}{1615}, -\frac{11}{85})$ $+ \frac{11}{1615}\sqrt{102}e^1 \otimes e_5 + \frac{22}{1615}\sqrt{894}e^2 \otimes e_9 + \frac{44}{1615}\sqrt{177}e^6 \otimes e_7$	{123468, 126}
93:15	$0, 0, 0, 0, 0, 0, \frac{24}{823}\sqrt{85}e^{12}, \frac{2}{823}\sqrt{18105}e^{13} + \frac{4}{823}\sqrt{5015}e^{24},$ $\frac{2}{823}\sqrt{28135}e^{15} + \frac{2}{823}\sqrt{20315}e^{34}$	$(-\frac{52}{823}, -\frac{29}{823}, \frac{89}{823}, \frac{66}{823}, \frac{207}{823}, \frac{222}{823}, -\frac{81}{823}, \frac{37}{823}, \frac{155}{823})$ $+ \frac{10}{823}\sqrt{1615}e^5 \otimes e_8 + \frac{10}{823}\sqrt{969}e^1 \otimes e_6$	{12789, 135, 2368, 5679}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{105}e^{12}, \frac{1}{131}\sqrt{2310}e^{13} + \frac{1}{131}\sqrt{4242}e^{24},$ $\frac{2}{131}\sqrt{966}e^{15} + \frac{21}{131}\sqrt{6}e^{34}$	$(-\frac{49}{262}, -\frac{13}{131}, \frac{67}{524}, \frac{21}{524}, \frac{93}{262}, \frac{305}{524}, -\frac{75}{262}, -\frac{31}{524}, \frac{22}{131})$ $+ \frac{3}{131}\sqrt{1022}e^5 \otimes e_7 + \frac{6}{131}\sqrt{287}e^6 \otimes e_8$	{2378, 2467, 34589, 569}
93:15	$0, 0, 0, 0, 0, 0, \frac{28}{625}\sqrt{66}e^{12}, \frac{14}{625}\sqrt{291}e^{13} + \frac{42}{625}\sqrt{2}e^{24},$ $\frac{14}{625}\sqrt{546}e^{15} + \frac{28}{625}\sqrt{66}e^{34}$	$(-\frac{112}{625}, -\frac{21}{625}, \frac{14}{125}, -\frac{21}{625}, \frac{161}{625}, \frac{343}{625}, -\frac{133}{625}, -\frac{42}{625}, \frac{49}{625})$ $+ \frac{42}{625}\sqrt{94}e^5 \otimes e_7 + \frac{42}{625}\sqrt{94}e^6 \otimes e_9$	{1234568, 1256, 13789, 1479}
93:15	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{16}{53}\sqrt{2}e^{13} + \frac{4}{53}\sqrt{30}e^{24},$ $\frac{4}{53}\sqrt{30}e^{15} + \frac{4}{53}\sqrt{30}e^{34}$	$(-\frac{1}{53}, -\frac{9}{53}, \frac{13}{106}, \frac{29}{106}, \frac{22}{53}, -\frac{35}{106}, -\frac{10}{53}, \frac{11}{106}, \frac{21}{53})$ $+ \frac{4}{53}\sqrt{94}e^4 \otimes e_6 + \frac{4}{53}\sqrt{94}e^5 \otimes e_7$	{2347, 2678, 3569, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{42}{169}\sqrt{10}e^{12}, \frac{6}{169}\sqrt{259}e^{13} + \frac{6}{169}\sqrt{154}e^{24},$ $\frac{6}{169}\sqrt{182}e^{15} + \frac{42}{169}\sqrt{10}e^{34}$	$(\frac{18}{169}, -\frac{67}{169}, -\frac{8}{169}, \frac{77}{169}, \frac{51}{169}, \frac{25}{169}, -\frac{49}{169}, \frac{10}{169}, \frac{69}{169})$ $+ \frac{72}{169}\sqrt{7}e^4 \otimes e_7$	{124569, 12459, 167, 17, 25678, 2578, 4689, 489}
93:15	$0, 0, 0, 0, 0, 0, \frac{4}{1107}\sqrt{14559}e^{12}, \frac{2}{1107}\sqrt{13082}e^{13} + \frac{2}{1107}\sqrt{12449}e^{24},$ $\frac{4}{1107}\sqrt{14559}e^{15} + \frac{2}{1107}\sqrt{12449}e^{34}$	$(\frac{2}{369}, -\frac{115}{1107}, \frac{11}{123}, \frac{220}{1107}, \frac{313}{1107}, -\frac{416}{1107}, -\frac{109}{1107}, \frac{35}{369}, \frac{319}{1107})$ $+ \frac{2}{1107}\sqrt{102757}e^5 \otimes e_7 + \frac{2}{1107}\sqrt{109298}e^1 \otimes e_6$	{1235, 12458, 13479, 1789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:15	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{5}{79}\sqrt{14}e^{13} + \frac{2}{79}\sqrt{105}e^{24},$ $\frac{2}{79}\sqrt{105}e^{15} + \frac{5}{79}\sqrt{42}e^{34}$	$(\frac{11}{79}, \frac{22}{79}, -\frac{1}{79}, -\frac{12}{79}, -\frac{24}{79}, \frac{9}{79}, \frac{33}{79}, \frac{10}{79}, -\frac{13}{79})$ $+ \frac{1}{79}\sqrt{3010}e^2 \otimes e_9 + \frac{3}{79}\sqrt{210}e^1 \otimes e_5$	{3569, 359, 45689, 4589}
93:15	$0, 0, 0, 0, 0, 0, \frac{14}{473}\sqrt{282}e^{12}, \frac{28}{473}\sqrt{66}e^{13} + \frac{28}{473}\sqrt{41}e^{24},$ $\frac{14}{473}\sqrt{246}e^{15} + \frac{14}{473}\sqrt{282}e^{34}$	$(-\frac{105}{473}, -\frac{14}{473}, \frac{7}{43}, -\frac{14}{473}, \frac{168}{473}, \frac{168}{473}, -\frac{119}{473}, -\frac{28}{473}, \frac{63}{473})$ $+ \frac{14}{473}\sqrt{246}e^6 \otimes e_8 + \frac{14}{473}\sqrt{610}e^3 \otimes e_7$	{123569, 178, 2567, 389}
93:15	$0, 0, 0, 0, 0, 0, \frac{11}{1247}\sqrt{1842}e^{12}, \frac{22}{1247}\sqrt{201}e^{13} + \frac{11}{1247}\sqrt{462}e^{24},$ $\frac{11}{1247}\sqrt{258}e^{15} + \frac{11}{1247}\sqrt{1038}e^{34}$	$(\frac{231}{1247}, -\frac{286}{1247}, \frac{209}{1247}, \frac{308}{1247}, -\frac{132}{1247}, \frac{385}{1247}, -\frac{55}{1247}, \frac{22}{1247}, \frac{99}{1247})$ $+ \frac{11}{1247}\sqrt{1722}e^6 \otimes e_8 + \frac{22}{1247}\sqrt{690}e^4 \otimes e_7 + \frac{66}{1247}\sqrt{67}e^1 \otimes e_5$	{12346, 3458}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{835}\sqrt{27939}e^{12}, \frac{4}{835}\sqrt{2363}e^{13} + \frac{6}{835}\sqrt{1529}e^{24},$ $\frac{2}{835}\sqrt{27939}e^{15} + \frac{6}{835}\sqrt{1529}e^{34}$	$(\frac{62}{835}, \frac{229}{835}, \frac{59}{835}, -\frac{108}{835}, -\frac{111}{835}, -\frac{216}{835}, \frac{291}{835}, \frac{121}{835}, -\frac{49}{835})$ $+ \frac{2}{835}\sqrt{61021}e^2 \otimes e_9 + \frac{6}{835}\sqrt{4726}e^1 \otimes e_6$	{23467, 2678, 3569, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{413}e^{12}, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{210}e^{24},$ $\frac{1}{43}\sqrt{329}e^{15} + \frac{1}{43}\sqrt{133}e^{34}$	$(-\frac{9}{86}, -\frac{7}{86}, \frac{6}{43}, \frac{5}{43}, \frac{31}{86}, -\frac{9}{43}, -\frac{8}{43}, \frac{3}{43}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{357}e^4 \otimes e_6 + \frac{1}{43}\sqrt{742}e^3 \otimes e_7$	{123569, 1678, 2567, 3689}
93:15	$0, 0, 0, 0, 0, 0, \frac{1}{1159}\sqrt{2766}e^{12}, \frac{6}{1159}\sqrt{66}e^{13} + \frac{1}{1159}\sqrt{1266}e^{24},$ $\frac{1}{1159}\sqrt{78}e^{15} + \frac{1}{1159}\sqrt{2766}e^{34}$	$(-\frac{29}{1159}, \frac{10}{1159}, \frac{23}{1159}, -\frac{16}{1159}, \frac{36}{1159}, -\frac{3}{1159}, -\frac{1}{61}, -\frac{6}{1159}, \frac{7}{1159})$ $+ \frac{18}{1159}\sqrt{11}e^2 \otimes e_9 + \frac{1}{1159}\sqrt{546}e^6 \otimes e_8 + \frac{4}{1159}\sqrt{213}e^4 \otimes e_7$	{2678, 45689}
93:15	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{133}e^{12}, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{210}e^{24},$ $\frac{1}{43}\sqrt{329}e^{15} + \frac{1}{43}\sqrt{413}e^{34}$	$(-\frac{35}{172}, \frac{5}{43}, \frac{41}{172}, -\frac{7}{86}, \frac{31}{86}, -\frac{9}{43}, -\frac{15}{172}, \frac{3}{86}, \frac{27}{172})$ $+ \frac{1}{43}\sqrt{357}e^2 \otimes e_6 + \frac{1}{43}\sqrt{742}e^3 \otimes e_7$	{12359, 1678, 257, 3689}
93:16	$0, 0, 0, 0, 0, 0, \frac{5}{216}\sqrt{111}e^{13} + \frac{5}{216}\sqrt{130}e^{24}, -\frac{5}{216}\sqrt{111}e^{12} + \frac{5}{216}\sqrt{130}e^{34},$ $\frac{5}{216}\sqrt{218}e^{15}$	$(\frac{19}{216}, \frac{5}{144}, \frac{5}{216}, \frac{19}{216}, -\frac{25}{216}, -\frac{25}{108}, \frac{53}{432}, \frac{53}{432}, -\frac{1}{36})$ $+ \frac{5}{108}\sqrt{66}e^4 \otimes e_9 + \frac{5}{216}\sqrt{134}e^5 \otimes e_6$	{1236789, 12458, 169, 2346, 2579, 4678, 1236789, 12458, 169, 2346, 2579, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{5}{216}\sqrt{111}e^{13} + \frac{5}{216}\sqrt{130}e^{24}, \frac{5}{216}\sqrt{111}e^{12} + \frac{5}{216}\sqrt{130}e^{34},$ $\frac{5}{216}\sqrt{218}e^{15}$	$(\frac{19}{216}, \frac{5}{144}, \frac{5}{216}, \frac{19}{216}, -\frac{25}{216}, -\frac{25}{108}, \frac{53}{432}, \frac{53}{432}, -\frac{1}{36})$ $+ \frac{5}{108}\sqrt{66}e^4 \otimes e_9 + \frac{5}{216}\sqrt{134}e^5 \otimes e_6$	{1236789, 12458, 169, 2346, 2579, 4678, 1236789, 12458, 169, 2346, 2579, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{15}e^{13} + \frac{1}{35}\sqrt{78}e^{24}, -\frac{1}{35}\sqrt{15}e^{12} + \frac{1}{35}\sqrt{6}e^{34},$ $\frac{1}{35}\sqrt{7}e^{15}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^4 \otimes e_6 + \frac{6}{35}\sqrt{2}e^2 \otimes e_9 + \frac{6}{35}\sqrt{2}e^5 \otimes e_7$	{12458, 13479, 267, 35689, 12458, 13479, 267, 35689}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{15}e^{13} + \frac{1}{35}\sqrt{78}e^{24}, \frac{1}{35}\sqrt{15}e^{12} + \frac{1}{35}\sqrt{6}e^{34},$ $\frac{1}{35}\sqrt{7}e^{15}$	$(-\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{3}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{1}{35}\sqrt{51}e^4 \otimes e_6 + \frac{6}{35}\sqrt{2}e^2 \otimes e_9 + \frac{6}{35}\sqrt{2}e^5 \otimes e_7$	{12458, 13479, 267, 35689, 12458, 13479, 267, 35689}
93:16	$0, 0, 0, 0, 0, 0, \frac{70}{881}\sqrt{23}e^{13} + \frac{2}{881}\sqrt{36386}e^{24},$ $-\frac{4}{881}\sqrt{2415}e^{12} + \frac{6}{881}\sqrt{161}e^{34}, \frac{4}{881}\sqrt{13363}e^{15}$	$(-\frac{133}{881}, \frac{268}{881}, \frac{268}{881}, -\frac{133}{881}, \frac{79}{881}, -\frac{243}{881}, \frac{135}{881}, \frac{135}{881}, -\frac{54}{881})$ $+ \frac{2}{881}\sqrt{52647}e^5 \otimes e_6 + \frac{2}{881}\sqrt{75670}e^2 \otimes e_9$	{12357, 1245, 1346789, 1689, 23468, 2678, 359, 4579, 12357, 1245, 1346789, 1689, 23468, 2678, 359, 4579}
93:16	$0, 0, 0, 0, 0, 0, \frac{70}{881}\sqrt{23}e^{13} + \frac{2}{881}\sqrt{36386}e^{24},$ $\frac{4}{881}\sqrt{2415}e^{12} + \frac{6}{881}\sqrt{161}e^{34}, \frac{4}{881}\sqrt{13363}e^{15}$	$(-\frac{133}{881}, \frac{268}{881}, \frac{268}{881}, -\frac{133}{881}, \frac{79}{881}, -\frac{243}{881}, \frac{135}{881}, \frac{135}{881}, -\frac{54}{881})$ $+ \frac{2}{881}\sqrt{52647}e^5 \otimes e_6 + \frac{2}{881}\sqrt{75670}e^2 \otimes e_9$	{12357, 1245, 1346789, 1689, 23468, 2678, 359, 4579, 12357, 1245, 1346789, 1689, 23468, 2678, 359, 4579}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{13} + \frac{1}{6}\sqrt{6}e^{24}, -\frac{1}{2}\sqrt{2}e^{12} + \frac{1}{6}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{15}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, 0, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_6$	{1235, 1239, 12457, 12479, 1578, 1789, 23456789, 234678, 25689, 268, 4569, 46, 1235, 1239, 12457, 12479, 1578, 1789, 23456789, 234678, 25689, 268, 4569, 46}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{2}\sqrt{2}e^{13} + \frac{1}{6}\sqrt{6}e^{24}, \frac{1}{2}\sqrt{2}e^{12} + \frac{1}{6}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{15}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, 0, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_6$	{1235, 1239, 12457, 12479, 1578, 1789, 23456789, 234678, 25689, 268, 4569, 46, 1235, 1239, 12457, 12479, 1578, 1789, 23456789, 234678, 25689, 268, 4569, 46}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:16	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{3}e^{13} + \frac{3}{13}\sqrt{2}e^{24}, -\frac{3}{13}\sqrt{3}e^{12} + \frac{3}{13}\sqrt{2}e^{34}, \frac{3}{13}e^{15}$	$(\frac{5}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{5}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13}) + \frac{3}{13}\sqrt{11}e^4 \otimes e_6 + \frac{6}{13}\sqrt{3}e^1 \otimes e_5$	{1234, 1267, 1478, 235678, 2458, 56, 1234, 1267, 1478, 235678, 2458, 56}
93:16	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{3}e^{13} + \frac{3}{13}\sqrt{2}e^{24}, \frac{3}{13}\sqrt{3}e^{12} + \frac{3}{13}\sqrt{2}e^{34}, \frac{3}{13}e^{15}$	$(\frac{5}{13}, -\frac{1}{13}, -\frac{1}{13}, \frac{5}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13}) + \frac{3}{13}\sqrt{11}e^4 \otimes e_6 + \frac{6}{13}\sqrt{3}e^1 \otimes e_5$	{1234, 1267, 1478, 235678, 2458, 56, 1234, 1267, 1478, 235678, 2458, 56}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{194}\sqrt{5874}e^{13} + \frac{1}{194}\sqrt{4026}e^{24}, -\frac{1}{194}\sqrt{462}e^{12} + \frac{1}{194}\sqrt{2310}e^{34}, \frac{3}{97}\sqrt{187}e^{15}$	$(\frac{3}{97}, -\frac{4}{97}, -\frac{4}{97}, \frac{3}{97}, \frac{32}{97}, -\frac{30}{97}, -\frac{1}{97}, -\frac{1}{97}, \frac{35}{97}) + \frac{12}{97}\sqrt{22}e^5 \otimes e_7 + \frac{1}{97}\sqrt{2607}e^1 \otimes e_6$	{123458, 12789, 135, 1479, 2367, 24569, 34678, 5689, 123458, 12789, 135, 1479, 2367, 24569, 34678, 5689}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{194}\sqrt{5874}e^{13} + \frac{1}{194}\sqrt{4026}e^{24}, \frac{1}{194}\sqrt{462}e^{12} + \frac{1}{194}\sqrt{2310}e^{34}, \frac{3}{97}\sqrt{187}e^{15}$	$(\frac{3}{97}, -\frac{4}{97}, -\frac{4}{97}, \frac{3}{97}, \frac{32}{97}, -\frac{30}{97}, -\frac{1}{97}, -\frac{1}{97}, \frac{35}{97}) + \frac{12}{97}\sqrt{22}e^5 \otimes e_7 + \frac{1}{97}\sqrt{2607}e^1 \otimes e_6$	{123458, 12789, 135, 1479, 2367, 24569, 34678, 5689, 123458, 12789, 135, 1479, 2367, 24569, 34678, 5689}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{140}\sqrt{4947}e^{13} + \frac{1}{140}\sqrt{194}e^{24}, -\frac{1}{140}\sqrt{4947}e^{12} + \frac{3}{140}\sqrt{194}e^{34}, \frac{3}{140}\sqrt{970}e^{15}$	$(\frac{33}{140}, -\frac{3}{280}, -\frac{3}{280}, \frac{33}{140}, -\frac{16}{35}, \frac{33}{70}, \frac{9}{40}, \frac{9}{40}, -\frac{31}{140}) + \frac{1}{140}\sqrt{9894}e^6 \otimes e_9 + \frac{1}{70}\sqrt{3589}e^1 \otimes e_5$	{1239, 12479, 1789, 2345789, 2589, 459, 1239, 12479, 1789, 2345789, 2589, 459}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{140}\sqrt{4947}e^{13} + \frac{3}{140}\sqrt{194}e^{24}, \frac{1}{140}\sqrt{4947}e^{12} + \frac{3}{140}\sqrt{194}e^{34}, \frac{3}{140}\sqrt{970}e^{15}$	$(\frac{33}{140}, -\frac{3}{280}, -\frac{3}{280}, \frac{33}{140}, -\frac{16}{35}, \frac{33}{70}, \frac{9}{40}, \frac{9}{40}, -\frac{31}{140}) + \frac{1}{140}\sqrt{9894}e^6 \otimes e_9 + \frac{1}{70}\sqrt{3589}e^1 \otimes e_5$	{1239, 12479, 1789, 2345789, 2589, 459, 1239, 12479, 1789, 2345789, 2589, 459}
93:16	$0, 0, 0, 0, 0, 0, \frac{9}{385}\sqrt{3}e^{13} + \frac{1}{385}\sqrt{921}e^{24}, -\frac{1}{385}\sqrt{687}e^{12} + \frac{3}{385}\sqrt{53}e^{34}, \frac{6}{385}\sqrt{30}e^{15}$	$(\frac{4}{385}, -\frac{2}{77}, -\frac{2}{77}, \frac{4}{385}, -\frac{3}{385}, \frac{29}{385}, -\frac{6}{385}, -\frac{6}{385}, \frac{1}{385}) + \frac{2}{385}\sqrt{222}e^5 \otimes e_7 + \frac{4}{385}\sqrt{78}e^4 \otimes e_9$	{1236789, 123789, 124568, 12458, 35689, 3589, 4678, 478, 1236789, 123789, 124568, 12458, 35689, 3589, 4678, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{9}{385}\sqrt{3}e^{13} + \frac{1}{385}\sqrt{921}e^{24}, \frac{1}{385}\sqrt{687}e^{12} + \frac{3}{385}\sqrt{53}e^{34}, \frac{6}{385}\sqrt{30}e^{15}$	$(\frac{4}{385}, -\frac{2}{77}, -\frac{2}{77}, \frac{4}{385}, -\frac{3}{385}, \frac{29}{385}, -\frac{6}{385}, -\frac{6}{385}, \frac{1}{385}) + \frac{2}{385}\sqrt{222}e^5 \otimes e_7 + \frac{4}{385}\sqrt{78}e^4 \otimes e_9$	{1236789, 123789, 124568, 12458, 35689, 3589, 4678, 478, 1236789, 123789, 124568, 12458, 35689, 3589, 4678, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{281}\sqrt{18239}e^{13} + \frac{3}{281}\sqrt{5681}e^{24}, -\frac{5}{281}\sqrt{2093}e^{12} + \frac{13}{281}\sqrt{115}e^{34}, \frac{2}{281}\sqrt{598}e^{15}$	$(-\frac{8}{281}, \frac{108}{281}, \frac{108}{281}, -\frac{8}{281}, \frac{49}{281}, -\frac{191}{281}, \frac{100}{281}, \frac{100}{281}, \frac{41}{281}) + \frac{2}{281}\sqrt{35282}e^2 \otimes e_6$	{123579, 1237, 124, 12459, 13456789, 134678, 15689, 168, 23458, 23489, 2578, 2789, 356, 369, 4567, 4679, 123579, 1237, 124, 12459, 13456789, 134678, 15689, 168, 23458, 23489, 2578, 2789, 356, 369, 4567, 4679}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{281}\sqrt{18239}e^{13} + \frac{3}{281}\sqrt{5681}e^{24}, \frac{5}{281}\sqrt{2093}e^{12} + \frac{13}{281}\sqrt{115}e^{34}, \frac{2}{281}\sqrt{598}e^{15}$	$(-\frac{8}{281}, \frac{108}{281}, \frac{108}{281}, -\frac{8}{281}, \frac{49}{281}, -\frac{191}{281}, \frac{100}{281}, \frac{100}{281}, \frac{41}{281}) + \frac{2}{281}\sqrt{35282}e^2 \otimes e_6$	{123579, 1237, 124, 12459, 13456789, 134678, 15689, 168, 23458, 23489, 2578, 2789, 356, 369, 4567, 4679, 123579, 1237, 124, 12459, 13456789, 134678, 15689, 168, 23458, 23489, 2578, 2789, 356, 369, 4567, 4679}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{3315}e^{13} + \frac{1}{67}\sqrt{1365}e^{24}, -\frac{1}{67}\sqrt{3315}e^{12} + \frac{1}{67}\sqrt{1365}e^{34}, \frac{2}{67}\sqrt{455}e^{15}$	$(\frac{30}{67}, -\frac{6}{67}, -\frac{6}{67}, \frac{30}{67}, -\frac{35}{67}, \frac{9}{67}, \frac{24}{67}, \frac{24}{67}, -\frac{5}{67}) + \frac{2}{67}\sqrt{1885}e^1 \otimes e_5$	{123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456, 123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{3315}e^{13} + \frac{1}{67}\sqrt{1365}e^{24}, \frac{1}{67}\sqrt{3315}e^{12} + \frac{1}{67}\sqrt{1365}e^{34}, \frac{2}{67}\sqrt{455}e^{15}$	$(\frac{30}{67}, -\frac{6}{67}, -\frac{6}{67}, \frac{30}{67}, -\frac{35}{67}, \frac{9}{67}, \frac{24}{67}, \frac{24}{67}, -\frac{5}{67}) + \frac{2}{67}\sqrt{1885}e^1 \otimes e_5$	{123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456, 123, 1236, 12467, 1247, 1678, 178, 2345678, 234578, 2568, 258, 45, 456}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{3}e^{13} + \frac{1}{9}\sqrt{15}e^{24}, -\frac{1}{3}e^{12} + \frac{1}{9}\sqrt{15}e^{34}, \frac{2}{9}\sqrt{6}e^{15}$	$(\frac{2}{9}, 0, 0, \frac{2}{9}, -\frac{1}{3}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9}, -\frac{1}{9}) + \frac{2}{3}e^4 \otimes e_9 + \frac{2}{9}\sqrt{3}e^1 \otimes e_6$	{123789, 12458, 19, 2346, 25679, 4678, 123789, 12458, 19, 2346, 25679, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{3}e^{13} + \frac{1}{9}\sqrt{15}e^{24}, \frac{1}{3}e^{12} + \frac{1}{9}\sqrt{15}e^{34}, \frac{2}{9}\sqrt{6}e^{15}$	$(\frac{2}{9}, 0, 0, \frac{2}{9}, -\frac{1}{3}, -\frac{1}{9}, \frac{2}{9}, \frac{2}{9}, -\frac{1}{9})$ $+ \frac{2}{3}e^4 \otimes e_9 + \frac{2}{9}\sqrt{3}e^1 \otimes e_6$	{123789, 12458, 19, 2346, 25679, 4678, 123789, 12458, 19, 2346, 25679, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{259}\sqrt{41}e^{13} + \frac{1}{259}\sqrt{191}e^{24}, -\frac{1}{259}\sqrt{137}e^{12} + \frac{1}{259}\sqrt{95}e^{34}, \frac{2}{259}\sqrt{58}e^{15}$	$(\frac{6}{259}, -\frac{8}{259}, -\frac{8}{259}, \frac{6}{259}, -\frac{1}{259}, \frac{5}{259}, -\frac{2}{259}, -\frac{2}{259}, \frac{5}{259})$ $+ \frac{2}{259}\sqrt{65}e^4 \otimes e_9 + \frac{2}{259}\sqrt{7}e^1 \otimes e_6 + \frac{8}{259}\sqrt{3}e^5 \otimes e_7$	{123789, 12458, 35689, 4678, 123789, 12458, 35689, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{259}\sqrt{41}e^{13} + \frac{1}{259}\sqrt{191}e^{24}, \frac{1}{259}\sqrt{137}e^{12} + \frac{1}{259}\sqrt{95}e^{34}, \frac{2}{259}\sqrt{58}e^{15}$	$(\frac{6}{259}, -\frac{8}{259}, -\frac{8}{259}, \frac{6}{259}, -\frac{1}{259}, \frac{5}{259}, -\frac{2}{259}, -\frac{2}{259}, \frac{5}{259})$ $+ \frac{2}{259}\sqrt{65}e^4 \otimes e_9 + \frac{2}{259}\sqrt{7}e^1 \otimes e_6 + \frac{8}{259}\sqrt{3}e^5 \otimes e_7$	{123789, 12458, 35689, 4678, 123789, 12458, 35689, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1246}e^{24}, -\frac{1}{72}\sqrt{1335}e^{12} + \frac{1}{72}\sqrt{1246}e^{34}, \frac{1}{72}\sqrt{5162}e^{15}$	$(-\frac{1}{72}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{72}, \frac{43}{72}, -\frac{23}{36}, \frac{25}{144}, \frac{25}{144}, \frac{7}{12})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_6$	{123578, 1236789, 12458, 124689, 15, 169, 23459, 2346, 2579, 267, 45789, 4678, 123578, 1236789, 12458, 124689, 15, 169, 23459, 2346, 2579, 267, 45789, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1246}e^{24}, \frac{1}{72}\sqrt{1335}e^{12} + \frac{1}{72}\sqrt{1246}e^{34}, \frac{1}{72}\sqrt{5162}e^{15}$	$(-\frac{1}{72}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{72}, \frac{43}{72}, -\frac{23}{36}, \frac{25}{144}, \frac{25}{144}, \frac{7}{12})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_6$	{123578, 1236789, 12458, 124689, 15, 169, 23459, 2346, 2579, 267, 45789, 4678, 123578, 1236789, 12458, 124689, 15, 169, 23459, 2346, 2579, 267, 45789, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{21}e^{13} + \frac{1}{35}\sqrt{21}e^{24}, -\frac{1}{35}\sqrt{7}e^{12} + \frac{1}{35}\sqrt{161}e^{34}, \frac{1}{35}\sqrt{154}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{210}e^5 \otimes e_8 + \frac{1}{35}\sqrt{42}e^2 \otimes e_6 + \frac{2}{5}e^3 \otimes e_9$	{123457, 14689, 238, 5679, 123457, 14689, 238, 5679}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{21}e^{13} + \frac{1}{35}\sqrt{21}e^{24}, \frac{1}{35}\sqrt{7}e^{12} + \frac{1}{35}\sqrt{161}e^{34}, \frac{1}{35}\sqrt{154}e^{15}$	$(-\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{210}e^5 \otimes e_8 + \frac{1}{35}\sqrt{42}e^2 \otimes e_6 + \frac{2}{5}e^3 \otimes e_9$	{123457, 14689, 238, 5679, 123457, 14689, 238, 5679}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{30191}e^{13} + \frac{1}{289}\sqrt{47897}e^{24}, -\frac{1}{289}\sqrt{25197}e^{12} + \frac{1}{289}\sqrt{7491}e^{34}, \frac{10}{289}\sqrt{454}e^{15}$	$(-\frac{44}{289}, \frac{128}{289}, \frac{128}{289}, -\frac{44}{289}, -\frac{55}{289}, \frac{45}{289}, \frac{84}{289}, \frac{84}{289}, -\frac{99}{289})$ $+ \frac{2}{289}\sqrt{27694}e^2 \otimes e_9$	{123567, 12357, 1245, 12456, 1346789, 134789, 1689, 189, 23468, 2348, 2678, 278, 3569, 359, 45679, 4579, 123567, 12357, 1245, 12456, 1346789, 134789, 1689, 189, 23468, 2348, 2678, 278, 3569, 359, 45679, 4579}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{30191}e^{13} + \frac{1}{289}\sqrt{47897}e^{24}, \frac{1}{289}\sqrt{25197}e^{12} + \frac{1}{289}\sqrt{7491}e^{34}, \frac{10}{289}\sqrt{454}e^{15}$	$(-\frac{44}{289}, \frac{128}{289}, \frac{128}{289}, -\frac{44}{289}, -\frac{55}{289}, \frac{45}{289}, \frac{84}{289}, \frac{84}{289}, -\frac{99}{289})$ $+ \frac{2}{289}\sqrt{27694}e^2 \otimes e_9$	{123567, 12357, 1245, 12456, 1346789, 134789, 1689, 189, 23468, 2348, 2678, 278, 3569, 359, 45679, 4579, 123567, 12357, 1245, 12456, 1346789, 134789, 1689, 189, 23468, 2348, 2678, 278, 3569, 359, 45679, 4579}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{165}e^{13} + \frac{1}{19}\sqrt{165}e^{24}, -\frac{1}{19}\sqrt{165}e^{12} + \frac{1}{19}\sqrt{165}e^{34}, \frac{2}{19}\sqrt{55}e^{15}$	$(0, \frac{3}{19}, \frac{3}{19}, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19})$ $+ \frac{10}{19}\sqrt{3}e^4 \otimes e_9 + \frac{2}{19}\sqrt{35}e^1 \otimes e_5$	{124568, 12458, 234, 2346, 4678, 478, 124568, 12458, 234, 2346, 4678, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{165}e^{13} + \frac{1}{19}\sqrt{165}e^{24}, \frac{1}{19}\sqrt{165}e^{12} + \frac{1}{19}\sqrt{165}e^{34}, \frac{2}{19}\sqrt{55}e^{15}$	$(0, \frac{3}{19}, \frac{3}{19}, 0, -\frac{5}{19}, \frac{3}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{5}{19})$ $+ \frac{10}{19}\sqrt{3}e^4 \otimes e_9 + \frac{2}{19}\sqrt{35}e^1 \otimes e_5$	{124568, 12458, 234, 2346, 4678, 478, 124568, 12458, 234, 2346, 4678, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{3}{23}\sqrt{15}e^{13} + \frac{1}{23}\sqrt{165}e^{24}, -\frac{1}{23}\sqrt{155}e^{12} + \frac{1}{23}\sqrt{145}e^{34}, \frac{10}{23}\sqrt{2}e^{15}$	$(0, \frac{2}{23}, \frac{2}{23}, 0, -\frac{5}{23}, \frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{5}{23})$ $+ \frac{2}{23}\sqrt{10}e^6 \otimes e_7 + \frac{2}{23}\sqrt{30}e^1 \otimes e_5 + \frac{2}{23}\sqrt{70}e^4 \otimes e_9$	{124568, 13457, 2346, 478, 124568, 13457, 2346, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{3}{23}\sqrt{15}e^{13} + \frac{1}{23}\sqrt{165}e^{24}, \frac{1}{23}\sqrt{155}e^{12} + \frac{1}{23}\sqrt{145}e^{34}, \frac{10}{23}\sqrt{2}e^{15}$	$(0, \frac{2}{23}, \frac{2}{23}, 0, -\frac{5}{23}, \frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{5}{23})$ $+ \frac{2}{23}\sqrt{10}e^6 \otimes e_7 + \frac{2}{23}\sqrt{30}e^1 \otimes e_5 + \frac{2}{23}\sqrt{70}e^4 \otimes e_9$	{124568, 13457, 2346, 478, 124568, 13457, 2346, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:16	$0, 0, 0, 0, 0, \frac{5}{281}\sqrt{2093}e^{13} + \frac{3}{281}\sqrt{5681}e^{24},$ $-\frac{1}{281}\sqrt{18239}e^{12} + \frac{13}{281}\sqrt{115}e^{34}, \frac{2}{281}\sqrt{598}e^{15}$	$(-\frac{8}{281}, -\frac{10}{281}, -\frac{10}{281}, -\frac{8}{281}, \frac{49}{281}, 1, -\frac{18}{281}, -\frac{18}{281}, \frac{41}{281})$ $+\frac{2}{281}\sqrt{35282}e^6 \otimes e_7$	{12345689, 123468, 125789, 1278, 13569, 136, 14579, 147, 2357, 2379, 2456, 2469, 34578, 34789, 568, 689, 12345689, 123468, 125789, 1278, 13569, 136, 14579, 147, 2357, 2379, 2456, 2469, 34578, 34789, 568, 689}
93:16	$0, 0, 0, 0, 0, \frac{5}{281}\sqrt{2093}e^{13} + \frac{3}{281}\sqrt{5681}e^{24},$ $\frac{1}{281}\sqrt{18239}e^{12} + \frac{13}{281}\sqrt{115}e^{34}, \frac{2}{281}\sqrt{598}e^{15}$	$(-\frac{8}{281}, -\frac{10}{281}, -\frac{10}{281}, -\frac{8}{281}, \frac{49}{281}, 1, -\frac{18}{281}, -\frac{18}{281}, \frac{41}{281})$ $+\frac{2}{281}\sqrt{35282}e^6 \otimes e_7$	{12345689, 123468, 125789, 1278, 13569, 136, 14579, 147, 2357, 2379, 2456, 2469, 34578, 34789, 568, 689, 12345689, 123468, 125789, 1278, 13569, 136, 14579, 147, 2357, 2379, 2456, 2469, 34578, 34789, 568, 689}
93:16	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1247}e^{13} + \frac{1}{71}\sqrt{1653}e^{24}, -\frac{1}{71}\sqrt{1247}e^{12} + \frac{1}{71}\sqrt{1653}e^{34},$ $\frac{2}{71}\sqrt{551}e^{15}$	$(\frac{14}{71}, \frac{2}{71}, \frac{2}{71}, \frac{14}{71}, -\frac{29}{71}, \frac{9}{71}, \frac{16}{71}, \frac{16}{71}, -\frac{15}{71})$ $+\frac{2}{71}\sqrt{899}e^4 \otimes e_9$	{1236789, 123789, 124568, 12458, 169, 19, 234, 2346, 25679, 2579, 4678, 478, 1236789, 123789, 124568, 12458, 169, 19, 234, 2346, 25679, 2579, 4678, 478}
93:16	$0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1247}e^{13} + \frac{1}{71}\sqrt{1653}e^{24}, \frac{1}{71}\sqrt{1247}e^{12} + \frac{1}{71}\sqrt{1653}e^{34},$ $\frac{2}{71}\sqrt{551}e^{15}$	$(\frac{14}{71}, \frac{2}{71}, \frac{2}{71}, \frac{14}{71}, -\frac{29}{71}, \frac{9}{71}, \frac{16}{71}, \frac{16}{71}, -\frac{15}{71})$ $+\frac{2}{71}\sqrt{899}e^4 \otimes e_9$	{1236789, 123789, 124568, 12458, 169, 19, 234, 2346, 25679, 2579, 4678, 478, 1236789, 123789, 124568, 12458, 169, 19, 234, 2346, 25679, 2579, 4678, 478}
93:16	$0, 0, 0, 0, 0, \frac{1}{194}\sqrt{462}e^{13} + \frac{1}{194}\sqrt{4026}e^{24},$ $-\frac{1}{194}\sqrt{5874}e^{12} + \frac{1}{194}\sqrt{2310}e^{34}, \frac{3}{97}\sqrt{187}e^{15}$	$(\frac{3}{97}, \frac{20}{97}, \frac{20}{97}, \frac{3}{97}, -\frac{16}{97}, -\frac{30}{97}, \frac{23}{97}, \frac{23}{97}, -\frac{13}{97})$ $+\frac{12}{97}\sqrt{22}e^2 \otimes e_9 + \frac{1}{97}\sqrt{2607}e^1 \otimes e_6$	{12357, 1245, 134789, 189, 23468, 2678, 3569, 45679, 12357, 1245, 134789, 189, 23468, 2678, 3569, 45679}
93:16	$0, 0, 0, 0, 0, \frac{1}{194}\sqrt{462}e^{13} + \frac{1}{194}\sqrt{4026}e^{24},$ $\frac{1}{194}\sqrt{5874}e^{12} + \frac{1}{194}\sqrt{2310}e^{34}, \frac{3}{97}\sqrt{187}e^{15}$	$(\frac{3}{97}, \frac{20}{97}, \frac{20}{97}, \frac{3}{97}, -\frac{16}{97}, -\frac{30}{97}, \frac{23}{97}, \frac{23}{97}, -\frac{13}{97})$ $+\frac{12}{97}\sqrt{22}e^2 \otimes e_9 + \frac{1}{97}\sqrt{2607}e^1 \otimes e_6$	{12357, 1245, 134789, 189, 23468, 2678, 3569, 45679, 12357, 1245, 134789, 189, 23468, 2678, 3569, 45679}
93:16	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{47}e^{13} + \frac{5}{91}\sqrt{69}e^{24}, -\frac{5}{91}\sqrt{23}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{10}{91}\sqrt{17}e^{15}$	$(\frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{25}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91}, -\frac{15}{91})$ $+\frac{10}{91}\sqrt{29}e^4 \otimes e_9 + \frac{20}{91}\sqrt{3}e^2 \otimes e_6$	{123789, 12458, 134567, 169, 234, 2579, 35689, 4678, 123789, 12458, 134567, 169, 234, 2579, 35689, 4678}
93:16	$0, 0, 0, 0, 0, \frac{5}{91}\sqrt{47}e^{13} + \frac{5}{91}\sqrt{69}e^{24}, \frac{5}{91}\sqrt{23}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{10}{91}\sqrt{17}e^{15}$	$(\frac{10}{91}, \frac{10}{91}, \frac{10}{91}, \frac{10}{91}, -\frac{25}{91}, -\frac{15}{91}, \frac{20}{91}, \frac{20}{91}, -\frac{15}{91})$ $+\frac{10}{91}\sqrt{29}e^4 \otimes e_9 + \frac{20}{91}\sqrt{3}e^2 \otimes e_6$	{123789, 12458, 134567, 169, 234, 2579, 35689, 4678, 123789, 12458, 134567, 169, 234, 2579, 35689, 4678}
93:16	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{13} + \frac{1}{3}\sqrt{6}e^{24}, -\frac{1}{3}\sqrt{3}e^{12} + \frac{1}{3}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{15}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, 0, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+\frac{1}{3}\sqrt{15}e^4 \otimes e_6$	{1235678, 1236789, 12458, 12489, 156, 169, 234, 23459, 25679, 267, 45789, 478, 1235678, 1236789, 12458, 12489, 156, 169, 234, 23459, 25679, 267, 45789, 478}
93:16	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{3}e^{13} + \frac{1}{3}\sqrt{6}e^{24}, \frac{1}{3}\sqrt{3}e^{12} + \frac{1}{3}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{15}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, 0, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+\frac{1}{3}\sqrt{15}e^4 \otimes e_6$	{1235678, 1236789, 12458, 12489, 156, 169, 234, 23459, 25679, 267, 45789, 478, 1235678, 1236789, 12458, 12489, 156, 169, 234, 23459, 25679, 267, 45789, 478}
93:16	$0, 0, 0, 0, 0, \frac{1}{811}\sqrt{155}e^{13} + \frac{1}{811}\sqrt{721}e^{24}, -\frac{9}{811}\sqrt{7}e^{12} + \frac{1}{811}\sqrt{309}e^{34},$ $\frac{2}{811}\sqrt{206}e^{15}$	$(\frac{12}{811}, -\frac{14}{811}, -\frac{14}{811}, \frac{12}{811}, -\frac{1}{811}, -\frac{1}{811}, -\frac{2}{811}, -\frac{2}{811}, \frac{11}{811})$ $+\frac{2}{811}\sqrt{174}e^5 \otimes e_7 + \frac{4}{811}\sqrt{58}e^4 \otimes e_9 + \frac{8}{811}\sqrt{2}e^6 \otimes e_8$	{1236789, 124568, 35689, 4678, 1236789, 124568, 35689, 4678}
93:16	$0, 0, 0, 0, 0, \frac{1}{811}\sqrt{155}e^{13} + \frac{1}{811}\sqrt{721}e^{24}, \frac{9}{811}\sqrt{7}e^{12} + \frac{1}{811}\sqrt{309}e^{34},$ $\frac{2}{811}\sqrt{206}e^{15}$	$(\frac{12}{811}, -\frac{14}{811}, -\frac{14}{811}, \frac{12}{811}, -\frac{1}{811}, -\frac{1}{811}, -\frac{2}{811}, -\frac{2}{811}, \frac{11}{811})$ $+\frac{2}{811}\sqrt{174}e^5 \otimes e_7 + \frac{4}{811}\sqrt{58}e^4 \otimes e_9 + \frac{8}{811}\sqrt{2}e^6 \otimes e_8$	{1236789, 124568, 35689, 4678, 1236789, 124568, 35689, 4678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{25197}e^{13} + \frac{1}{289}\sqrt{47897}e^{24},$ $-\frac{1}{289}\sqrt{30191}e^{12} + \frac{1}{289}\sqrt{7491}e^{34}, \frac{10}{289}\sqrt{454}e^{15}$	$(-\frac{44}{289}, \frac{6}{289}, \frac{6}{289}, -\frac{44}{289}, \frac{189}{289}, \frac{45}{289}, -\frac{38}{289}, -\frac{38}{289}, \frac{145}{289})$ $+\frac{2}{289}\sqrt{27694}e^5 \otimes e_7$	{1234568, 123458, 126789, 12789, 135, 1356, 14679, 1479, 2367, 237, 24569, 2459, 34678, 3478, 5689, 589, 1234568, 123458, 126789, 12789, 135, 1356, 14679, 1479, 2367, 237, 24569, 2459, 34678, 3478, 5689, 589}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{289}\sqrt{25197}e^{13} + \frac{1}{289}\sqrt{47897}e^{24},$ $\frac{1}{289}\sqrt{30191}e^{12} + \frac{1}{289}\sqrt{7491}e^{34}, \frac{10}{289}\sqrt{454}e^{15}$	$(-\frac{44}{289}, \frac{6}{289}, \frac{6}{289}, -\frac{44}{289}, \frac{189}{289}, \frac{45}{289}, -\frac{38}{289}, -\frac{38}{289}, \frac{145}{289})$ $+\frac{2}{289}\sqrt{27694}e^5 \otimes e_7$	{1234568, 123458, 126789, 12789, 135, 1356, 14679, 1479, 2367, 237, 24569, 2459, 34678, 3478, 5689, 589, 1234568, 123458, 126789, 12789, 135, 1356, 14679, 1479, 2367, 237, 24569, 2459, 34678, 3478, 5689, 589}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{21}e^{13} + \frac{1}{35}\sqrt{161}e^{24}, -\frac{1}{35}\sqrt{7}e^{12} + \frac{1}{35}\sqrt{21}e^{34},$ $\frac{1}{35}\sqrt{154}e^{15}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_8 + \frac{2}{5}e^5 \otimes e_7$	{12456, 134789, 278, 3569, 12456, 134789, 278, 3569}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{21}e^{13} + \frac{1}{35}\sqrt{161}e^{24}, \frac{1}{35}\sqrt{7}e^{12} + \frac{1}{35}\sqrt{21}e^{34},$ $\frac{1}{35}\sqrt{154}e^{15}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_8 + \frac{2}{5}e^5 \otimes e_7$	{12456, 134789, 278, 3569, 12456, 134789, 278, 3569}
93:16	$0, 0, 0, 0, 0, 0, \frac{4}{881}\sqrt{2415}e^{13} + \frac{2}{881}\sqrt{36386}e^{24},$ $-\frac{70}{881}\sqrt{23}e^{12} + \frac{6}{881}\sqrt{161}e^{34}, \frac{4}{881}\sqrt{13363}e^{15}$	$(-\frac{133}{881}, \frac{33}{881}, \frac{33}{881}, -\frac{133}{881}, \frac{222}{881}, \frac{411}{881}, -\frac{100}{881}, -\frac{100}{881}, \frac{89}{881})$ $+\frac{2}{881}\sqrt{52647}e^6 \otimes e_9 + \frac{2}{881}\sqrt{75670}e^5 \otimes e_7$	{1234568, 12789, 1356, 1479, 2367, 2459, 34678, 589, 1234568, 12789, 1356, 1479, 2367, 2459, 34678, 589}
93:16	$0, 0, 0, 0, 0, 0, \frac{4}{881}\sqrt{2415}e^{13} + \frac{2}{881}\sqrt{36386}e^{24},$ $\frac{70}{881}\sqrt{23}e^{12} + \frac{6}{881}\sqrt{161}e^{34}, \frac{4}{881}\sqrt{13363}e^{15}$	$(-\frac{133}{881}, \frac{33}{881}, \frac{33}{881}, -\frac{133}{881}, \frac{222}{881}, \frac{411}{881}, -\frac{100}{881}, -\frac{100}{881}, \frac{89}{881})$ $+\frac{2}{881}\sqrt{52647}e^6 \otimes e_9 + \frac{2}{881}\sqrt{75670}e^5 \otimes e_7$	{1234568, 12789, 1356, 1479, 2367, 2459, 34678, 589, 1234568, 12789, 1356, 1479, 2367, 2459, 34678, 589}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1246}e^{24}, -\frac{1}{72}\sqrt{1335}e^{12} + \frac{1}{72}\sqrt{1246}e^{34},$ $\frac{1}{72}\sqrt{5162}e^{15}$	$(-\frac{1}{72}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{72}, -\frac{2}{9}, 1, \frac{25}{144}, \frac{25}{144}, -\frac{17}{72})$ $+\frac{1}{72}\sqrt{10502}e^6 \otimes e_9$	{1235678, 123789, 124568, 12489, 156, 19, 23459, 2346, 2579, 267, 45789, 4678, 1235678, 123789, 124568, 12489, 156, 19, 23459, 2346, 2579, 267, 45789, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1246}e^{24}, \frac{1}{72}\sqrt{1335}e^{12} + \frac{1}{72}\sqrt{1246}e^{34},$ $\frac{1}{72}\sqrt{5162}e^{15}$	$(-\frac{1}{72}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{72}, -\frac{2}{9}, 1, \frac{25}{144}, \frac{25}{144}, -\frac{17}{72})$ $+\frac{1}{72}\sqrt{10502}e^6 \otimes e_9$	{1235678, 123789, 124568, 12489, 156, 19, 23459, 2346, 2579, 267, 45789, 4678, 1235678, 123789, 124568, 12489, 156, 19, 23459, 2346, 2579, 267, 45789, 4678}
93:16	$0, 0, 0, 0, 0, 0, \frac{5}{91}\sqrt{23}e^{13} + \frac{5}{91}\sqrt{69}e^{24}, -\frac{5}{91}\sqrt{47}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{10}{91}\sqrt{17}e^{15}$	$(\frac{10}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, -\frac{25}{91}, \frac{33}{91}, \frac{8}{91}, \frac{8}{91}, -\frac{15}{91})$ $+\frac{10}{91}\sqrt{29}e^4 \otimes e_9 + \frac{20}{91}\sqrt{3}e^6 \otimes e_7$	{123789, 124568, 13457, 169, 2346, 2579, 35689, 478, 123789, 124568, 13457, 169, 2346, 2579, 35689, 478}
93:16	$0, 0, 0, 0, 0, 0, \frac{5}{91}\sqrt{23}e^{13} + \frac{5}{91}\sqrt{69}e^{24}, \frac{5}{91}\sqrt{47}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{10}{91}\sqrt{17}e^{15}$	$(\frac{10}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, -\frac{25}{91}, \frac{33}{91}, \frac{8}{91}, \frac{8}{91}, -\frac{15}{91})$ $+\frac{10}{91}\sqrt{29}e^4 \otimes e_9 + \frac{20}{91}\sqrt{3}e^6 \otimes e_7$	{123789, 124568, 13457, 169, 2346, 2579, 35689, 478, 123789, 124568, 13457, 169, 2346, 2579, 35689, 478}
93:17	$0, 0, 0, 0, 0, 0, \frac{99}{613}\sqrt{2}e^{12}, \frac{45}{613}\sqrt{10}e^{14} + \frac{36}{613}e^{35},$ $\frac{45}{613}\sqrt{10}e^{23} + \frac{36}{613}e^{45}$	$(\frac{36}{613}, \frac{36}{613}, -\frac{81}{613}, -\frac{81}{613}, \frac{36}{613}, \frac{153}{613}, \frac{72}{613}, -\frac{45}{613}, -\frac{45}{613})$ $+\frac{18}{613}\sqrt{115}e^1 \otimes e_9 + \frac{18}{613}\sqrt{115}e^2 \otimes e_8 + \frac{9}{613}\sqrt{202}e^6 \otimes e_7$	{123456, 34689}
93:17	$0, 0, 0, 0, 0, 0, \frac{7}{215}\sqrt{209}e^{12}, \frac{1}{215}\sqrt{4389}e^{14} + \frac{1}{215}\sqrt{4389}e^{35},$ $\frac{1}{215}\sqrt{1463}e^{23} + \frac{1}{215}\sqrt{8778}e^{45}$	$(-\frac{28}{215}, -\frac{17}{215}, \frac{33}{86}, \frac{88}{215}, -\frac{9}{86}, -\frac{101}{430}, -\frac{9}{43}, \frac{12}{43}, \frac{131}{430})$ $+\frac{1}{215}\sqrt{20615}e^3 \otimes e_6 + \frac{1}{215}\sqrt{29393}e^4 \otimes e_7$	{12345, 12469, 3489, 4568}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{1}{49}\sqrt{83}e^{14} + \frac{9}{49}e^{35},$ $\frac{2}{49}\sqrt{21}e^{23} + \frac{1}{49}\sqrt{93}e^{45}$	$(\frac{5}{196}, -\frac{3}{28}, \frac{9}{98}, \frac{5}{196}, -\frac{2}{49}, \frac{9}{98}, -\frac{4}{49}, \frac{5}{98}, -\frac{3}{196})$ $+\frac{1}{49}\sqrt{151}e^5 \otimes e_7 + \frac{1}{49}\sqrt{3}e^6 \otimes e_8 + \frac{3}{49}\sqrt{3}e^1 \otimes e_9$	{12458, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:17	$0, 0, 0, 0, 0, 0, \frac{10}{119}\sqrt{6}e^{12}, \frac{2}{119}\sqrt{55}e^{14} + \frac{10}{119}e^{35},$ $\frac{4}{119}\sqrt{5}e^{23} + \frac{2}{119}\sqrt{195}e^{45}$	$(\frac{11}{119}, -\frac{1}{7}, \frac{18}{119}, \frac{4}{119}, -\frac{3}{119}, -\frac{13}{119}, -\frac{6}{119}, \frac{15}{119}, \frac{1}{119})$ $+ \frac{2}{119}\sqrt{110}e^5 \otimes e_6 + \frac{2}{119}\sqrt{215}e^1 \otimes e_9 + \frac{30}{119}e^4 \otimes e_7$	{1245, 4689}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{971}\sqrt{128710}e^{12}, \frac{1}{971}\sqrt{78070}e^{14} + \frac{2}{971}\sqrt{136095}e^{35},$ $\frac{1}{971}\sqrt{647770}e^{23} + \frac{7}{971}\sqrt{6330}e^{45}$	$(\frac{185}{971}, -\frac{85}{971}, \frac{406}{971}, \frac{271}{971}, \frac{50}{971}, -\frac{649}{971}, \frac{100}{971}, \frac{456}{971}, \frac{321}{971})$ $+ \frac{90}{971}\sqrt{211}e^3 \otimes e_6$	{13459, 1389, 146, 1568, 2348, 235, 245689, 269}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{971}\sqrt{128710}e^{12}, \frac{1}{971}\sqrt{647770}e^{14} + \frac{2}{971}\sqrt{136095}e^{35},$ $\frac{1}{971}\sqrt{78070}e^{23} + \frac{7}{971}\sqrt{6330}e^{45}$	$(-\frac{85}{971}, \frac{185}{971}, -\frac{134}{971}, \frac{1}{971}, \frac{50}{971}, 1, \frac{100}{971}, -\frac{84}{971}, \frac{51}{971})$ $+ \frac{90}{971}\sqrt{211}e^6 \otimes e_8$	{134569, 1389, 146, 158, 2348, 2356, 24589, 269}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{2649}\sqrt{492190}e^{12}, \frac{2}{2649}\sqrt{15418}e^{14} + \frac{2}{2649}\sqrt{317255}e^{35},$ $\frac{2}{2649}\sqrt{78869}e^{23} + \frac{4}{2649}\sqrt{20162}e^{45}$	$(\frac{451}{2649}, -\frac{677}{2649}, \frac{320}{883}, \frac{132}{883}, -\frac{113}{2649}, -\frac{245}{883}, -\frac{226}{2649}, \frac{847}{2649}, \frac{283}{2649})$ $+ \frac{2}{2649}\sqrt{605453}e^1 \otimes e_6 + \frac{2}{2649}\sqrt{795806}e^3 \otimes e_7$	{147, 1578, 2456789, 2679}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{1247}e^{12}, \frac{4}{313}\sqrt{667}e^{14} + \frac{2}{313}\sqrt{87}e^{35},$ $\frac{4}{313}\sqrt{667}e^{23} + \frac{2}{313}\sqrt{87}e^{45}$	$(\frac{37}{313}, \frac{37}{313}, -\frac{58}{313}, -\frac{58}{313}, \frac{37}{313}, \frac{31}{313}, \frac{74}{313}, -\frac{21}{313}, -\frac{21}{313})$ $+ \frac{2}{313}\sqrt{4089}e^1 \otimes e_9 + \frac{2}{313}\sqrt{4089}e^2 \otimes e_8$	{1234, 12346, 345689, 34589}
93:17	$0, 0, 0, 0, 0, 0, \frac{3}{208}\sqrt{255}e^{12}, \frac{1}{412}\sqrt{6494}e^{14} + \frac{1}{412}\sqrt{6477}e^{35},$ $\frac{1}{412}\sqrt{782}e^{23} + \frac{1}{412}\sqrt{6477}e^{45}$	$(-\frac{1}{412}, -\frac{33}{412}, \frac{93}{824}, \frac{61}{824}, -\frac{17}{412}, -\frac{9}{206}, -\frac{17}{206}, \frac{59}{206}, \frac{27}{824})$ $+ \frac{1}{103}\sqrt{102}e^1 \otimes e_6 + \frac{1}{206}\sqrt{2839}e^5 \otimes e_7$	{12359, 12458, 3456, 5689}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{4}{49}\sqrt{10}e^{14} + \frac{2}{49}\sqrt{10}e^{35},$ $\frac{4}{49}\sqrt{10}e^{23} + \frac{2}{49}\sqrt{10}e^{45}$	$(\frac{6}{49}, \frac{6}{49}, -\frac{8}{49}, -\frac{8}{49}, \frac{6}{49}, -\frac{2}{49}, \frac{12}{49}, -\frac{2}{49}, -\frac{2}{49})$ $+ \frac{2}{49}\sqrt{26}e^5 \otimes e_6 + \frac{4}{49}\sqrt{19}e^1 \otimes e_9 + \frac{4}{49}\sqrt{19}e^2 \otimes e_8$	{12345, 34689}
93:17	$0, 0, 0, 0, 0, 0, \frac{24}{2591}\sqrt{1610}e^{12}, \frac{12}{2591}\sqrt{1610}e^{14} + \frac{4}{2591}\sqrt{119370}e^{35},$ $\frac{36}{2591}\sqrt{322}e^{23} + \frac{8}{2591}\sqrt{10281}e^{45}$	$(-\frac{260}{2591}, -\frac{344}{2591}, \frac{500}{2591}, \frac{458}{2591}, -\frac{302}{2591}, \frac{1302}{2591}, -\frac{604}{2591}, \frac{198}{2591}, \frac{156}{2591})$ $+ \frac{4}{2591}\sqrt{143106}e^6 \otimes e_8 + \frac{4}{2591}\sqrt{177882}e^3 \otimes e_7$	{1467, 1578, 245789, 2679}
93:17	$0, 0, 0, 0, 0, 0, \frac{72}{2519}\sqrt{57}e^{12}, \frac{24}{2519}\sqrt{557}e^{14} + \frac{24}{2519}\sqrt{267}e^{35},$ $\frac{24}{2519}\sqrt{134}e^{23} + \frac{24}{2519}\sqrt{602}e^{45}$	$(\frac{180}{2519}, -\frac{444}{2519}, \frac{336}{2519}, \frac{24}{2519}, -\frac{12}{229}, \frac{492}{2519}, -\frac{24}{229}, \frac{204}{2519}, -\frac{108}{2519})$ $+ \frac{24}{2519}\sqrt{1047}e^1 \otimes e_9 + \frac{336}{2519}\sqrt{5}e^4 \otimes e_7 + \frac{408}{2519}e^6 \otimes e_8$	{178, 25679}
93:17	$0, 0, 0, 0, 0, 0, \frac{32}{2287}\sqrt{218}e^{12}, \frac{64}{2287}\sqrt{211}e^{14} + \frac{32}{2287}\sqrt{102}e^{35},$ $\frac{32}{2287}\sqrt{1402}e^{23} + \frac{192}{2287}\sqrt{7}e^{45}$	$(\frac{919}{2287}, -\frac{551}{2287}, \frac{446}{2287}, -\frac{289}{2287}, \frac{184}{2287}, -\frac{578}{2287}, \frac{368}{2287}, \frac{630}{2287}, -\frac{105}{2287})$ $+ \frac{32}{2287}\sqrt{2382}e^1 \otimes e_9 + \frac{96}{2287}\sqrt{186}e^3 \otimes e_6$	{14567, 1678, 246789, 25679}
93:17	$0, 0, 0, 0, 0, 0, \frac{3}{76}\sqrt{15}e^{12}, \frac{1}{76}\sqrt{430}e^{14} + \frac{9}{76}\sqrt{5}e^{35},$ $\frac{1}{76}\sqrt{430}e^{23} + \frac{9}{76}\sqrt{5}e^{45}$	$(-\frac{5}{76}, -\frac{5}{76}, \frac{17}{152}, \frac{17}{152}, -\frac{5}{76}, \frac{3}{38}, -\frac{5}{38}, \frac{7}{152}, \frac{7}{152})$ $+ \frac{5}{38}\sqrt{7}e^5 \otimes e_7$	{123569, 12359, 345, 3456, 5689, 589}
93:17	$0, 0, 0, 0, 0, 0, \frac{24}{281}\sqrt{10}e^{12}, \frac{8}{281}\sqrt{70}e^{14} + \frac{8}{281}\sqrt{70}e^{35},$ $\frac{16}{281}\sqrt{22}e^{23} + \frac{16}{281}e^{45}$	$(\frac{40}{281}, -\frac{64}{281}, \frac{40}{281}, -\frac{12}{281}, -\frac{12}{281}, \frac{92}{281}, -\frac{24}{281}, \frac{28}{281}, -\frac{24}{281})$ $+ \frac{16}{281}\sqrt{47}e^3 \otimes e_7 + \frac{8}{281}\sqrt{134}e^6 \otimes e_8 + \frac{8}{281}\sqrt{190}e^1 \otimes e_9$	{123456, 1238, 3489, 3569}
93:17	$0, 0, 0, 0, 0, 0, \frac{24}{281}\sqrt{10}e^{12}, \frac{8}{281}\sqrt{70}e^{14} + \frac{8}{281}\sqrt{70}e^{35},$ $\frac{16}{281}\sqrt{22}e^{23} + \frac{16}{281}e^{45}$	$(\frac{40}{281}, -\frac{64}{281}, \frac{40}{281}, -\frac{12}{281}, -\frac{12}{281}, \frac{92}{281}, -\frac{24}{281}, \frac{28}{281}, -\frac{24}{281})$ $- \frac{16}{281}\sqrt{47}e^3 \otimes e_7 + \frac{8}{281}\sqrt{134}e^6 \otimes e_8 + \frac{8}{281}\sqrt{190}e^1 \otimes e_9$	{123456, 1238, 3489, 3569}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{7178}e^{12}, \frac{1}{81}\sqrt{2910}e^{14} + \frac{1}{81}\sqrt{2134}e^{35},$ $\frac{1}{81}\sqrt{2910}e^{23} + \frac{1}{81}\sqrt{2134}e^{45}$	$(-\frac{8}{81}, -\frac{8}{81}, \frac{2}{9}, \frac{2}{9}, -\frac{8}{81}, 1, -\frac{16}{81}, \frac{10}{81}, \frac{10}{81})$ $+ \frac{1}{81}\sqrt{12998}e^6 \otimes e_7$	{1234689, 123569, 126, 3456, 368, 5689}
93:17	$0, 0, 0, 0, 0, 0, \frac{9}{161}\sqrt{2}e^{12}, \frac{1}{161}\sqrt{82}e^{14} + \frac{6}{161}\sqrt{3}e^{35},$ $\frac{1}{161}\sqrt{82}e^{23} + \frac{6}{161}\sqrt{3}e^{45}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+ \frac{1}{161}\sqrt{190}e^5 \otimes e_7 + \frac{3}{161}\sqrt{6}e^1 \otimes e_9 + \frac{3}{161}\sqrt{6}e^2 \otimes e_8$	{5689, 589}
93:17	$0, 0, 0, 0, 0, 0, \frac{4}{1231}\sqrt{8490}e^{12}, \frac{8}{1231}\sqrt{1670}e^{14} + \frac{144}{1231}\sqrt{5}e^{35},$ $\frac{8}{1231}\sqrt{1695}e^{23} + \frac{4}{1231}\sqrt{6330}e^{45}$	$(-\frac{85}{1231}, -\frac{75}{1231}, \frac{126}{1231}, \frac{131}{1231}, -\frac{80}{1231}, \frac{126}{1231}, -\frac{160}{1231}, \frac{46}{1231}, \frac{51}{1231})$ $+ \frac{20}{1231}\sqrt{442}e^5 \otimes e_7 + \frac{40}{1231}\sqrt{3}e^6 \otimes e_8$	{123569, 12458, 3456, 589}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{2}{49}\sqrt{21}e^{14} + \frac{9}{49}e^{35},$ $\frac{1}{49}\sqrt{83}e^{23} + \frac{1}{49}\sqrt{93}e^{45}$	$(\frac{3}{98}, -\frac{11}{98}, \frac{5}{49}, \frac{3}{98}, -\frac{2}{49}, \frac{3}{49}, -\frac{4}{49}, \frac{3}{49}, -\frac{1}{98})$ $+ \frac{1}{49}\sqrt{151}e^5 \otimes e_7 + \frac{1}{49}\sqrt{3}e^3 \otimes e_6 + \frac{3}{49}\sqrt{3}e^1 \otimes e_9$	{124568, 5689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{107}\sqrt{2697}e^{12}, \frac{1}{107}\sqrt{930}e^{14} + \frac{1}{214}\sqrt{3441}e^{35},$ $\frac{1}{107}\sqrt{930}e^{23} + \frac{3}{214}\sqrt{806}e^{45}$	$(\frac{121}{428}, -\frac{109}{428}, \frac{11}{107}, -\frac{71}{428}, \frac{3}{214}, \frac{99}{214}, \frac{3}{107}, \frac{25}{214}, -\frac{65}{428})$ $+ \frac{1}{214}\sqrt{14043}e^6 \otimes e_7 + \frac{1}{214}\sqrt{21390}e^1 \otimes e_9$	{1457, 178, 24789, 2579}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{203}\sqrt{1554}e^{12}, \frac{2}{29}\sqrt{5}e^{14} + \frac{1}{203}\sqrt{966}e^{35},$ $\frac{5}{203}\sqrt{42}e^{23} + \frac{1}{203}\sqrt{1302}e^{45}$	$(\frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, -\frac{1}{29}, 0, -\frac{2}{29}, \frac{2}{29}, 0)$ $+ \frac{1}{203}\sqrt{210}e^4 \otimes e_6 + \frac{1}{203}\sqrt{462}e^1 \otimes e_9 + \frac{2}{29}\sqrt{10}e^5 \otimes e_7$	{12458, 5689}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{3097}\sqrt{264614}e^{12}, \frac{2}{3097}\sqrt{408446}e^{14} + \frac{6}{3097}\sqrt{17057}e^{35},$ $\frac{2}{3097}\sqrt{225429}e^{23} + \frac{12}{3097}\sqrt{5993}e^{45}$	$(\frac{35}{3097}, \frac{843}{3097}, -\frac{518}{3097}, -\frac{6}{163}, \frac{439}{3097}, -\frac{887}{3097}, \frac{878}{3097}, -\frac{79}{3097}, \frac{325}{3097})$ $+ \frac{2}{3097}\sqrt{549051}e^1 \otimes e_6 + \frac{6}{3097}\sqrt{82058}e^2 \otimes e_8$	{13789, 1578, 23567, 2679}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{14}e^{12}, \frac{1}{8}\sqrt{10}e^{14} + \frac{1}{14}\sqrt{21}e^{35},$ $\frac{1}{28}\sqrt{70}e^{23} + \frac{3}{56}\sqrt{42}e^{45}$	$(\frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, \frac{1}{16}, -\frac{5}{16}, \frac{1}{8}, \frac{3}{16}, 0)$ $+ \frac{1}{56}\sqrt{798}e^1 \otimes e_9 + \frac{3}{56}\sqrt{70}e^4 \otimes e_6$	{1457, 1678, 24789, 25679}
93:17	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{1}{5}\sqrt{2}e^{35},$ $\frac{1}{35}\sqrt{14}e^{23} + \frac{2}{35}\sqrt{21}e^{45}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0)$ $+ \frac{2}{35}\sqrt{35}e^1 \otimes e_9 + \frac{2}{35}\sqrt{35}e^5 \otimes e_6 + \frac{2}{35}\sqrt{42}e^3 \otimes e_7$	{14578, 167, 24679, 25789}
93:17	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{1}{5}\sqrt{2}e^{35},$ $\frac{1}{35}\sqrt{14}e^{23} + \frac{2}{35}\sqrt{21}e^{45}$	$(\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0, 0, -\frac{1}{5}, 0, \frac{1}{5}, 0)$ $+ \frac{2}{35}\sqrt{35}e^1 \otimes e_9 + \frac{2}{35}\sqrt{35}e^5 \otimes e_6 - \frac{2}{35}\sqrt{42}e^3 \otimes e_7$	{14578, 167, 24679, 25789}
93:17	$0, 0, 0, 0, 0, 0, \frac{32}{2287}\sqrt{218}e^{12}, \frac{32}{2287}\sqrt{1402}e^{14} + \frac{32}{2287}\sqrt{102}e^{35},$ $\frac{64}{2287}\sqrt{211}e^{23} + \frac{192}{2287}\sqrt{7}e^{45}$	$(\frac{640}{2287}, -\frac{272}{2287}, -\frac{112}{2287}, -\frac{568}{2287}, \frac{184}{2287}, \frac{1096}{2287}, \frac{368}{2287}, \frac{72}{2287}, -\frac{384}{2287})$ $+ \frac{32}{2287}\sqrt{2382}e^1 \otimes e_9 + \frac{96}{2287}\sqrt{186}e^6 \otimes e_8$	{14567, 178, 24789, 25679}
93:17	$0, 0, 0, 0, 0, 0, \frac{56}{3181}\sqrt{215}e^{12}, \frac{2}{3181}\sqrt{139535}e^{14} + \frac{2}{3181}\sqrt{107715}e^{35},$ $\frac{60}{3181}\sqrt{43}e^{23} + \frac{2}{3181}\sqrt{204465}e^{45}$	$(\frac{341}{3181}, -\frac{687}{3181}, \frac{598}{3181}, \frac{84}{3181}, -\frac{173}{3181}, \frac{277}{3181}, -\frac{346}{3181}, \frac{425}{3181}, -\frac{89}{3181})$ $+ \frac{2}{3181}\sqrt{302505}e^4 \otimes e_7 + \frac{2}{3181}\sqrt{321855}e^1 \otimes e_9$	{1678, 178, 25679, 2579}
93:17	$0, 0, 0, 0, 0, 0, \frac{4}{1231}\sqrt{8490}e^{12}, \frac{8}{1231}\sqrt{1695}e^{14} + \frac{144}{1231}\sqrt{5}e^{35},$ $\frac{8}{1231}\sqrt{1670}e^{23} + \frac{4}{1231}\sqrt{6330}e^{45}$	$(-\frac{75}{1231}, -\frac{85}{1231}, \frac{146}{1231}, \frac{141}{1231}, -\frac{80}{1231}, \frac{66}{1231}, -\frac{160}{1231}, \frac{66}{1231}, \frac{61}{1231})$ $+ \frac{20}{1231}\sqrt{442}e^5 \otimes e_7 + \frac{40}{1231}\sqrt{3}e^3 \otimes e_6$	{12359, 124568, 345, 5689}
93:17	$0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{210}e^{12}, \frac{1}{65}\sqrt{714}e^{14} + \frac{2}{65}\sqrt{273}e^{35},$ $\frac{7}{65}\sqrt{6}e^{23} + \frac{1}{65}\sqrt{462}e^{45}$	$(\frac{3}{65}, -\frac{7}{65}, \frac{17}{65}, \frac{12}{65}, -\frac{2}{65}, -\frac{23}{65}, -\frac{4}{65}, \frac{3}{13}, \frac{2}{13})$ $+ \frac{1}{65}\sqrt{1218}e^5 \otimes e_6 + \frac{6}{65}\sqrt{35}e^3 \otimes e_7$	{1234689, 12359, 345, 368}
93:17	$0, 0, 0, 0, 0, 0, \frac{10}{2093}\sqrt{582}e^{12}, \frac{5}{2093}\sqrt{1310}e^{14} + \frac{30}{2093}\sqrt{47}e^{35},$ $\frac{20}{2093}\sqrt{93}e^{23} + \frac{5}{2093}\sqrt{1374}e^{45}$	$(-\frac{95}{2093}, \frac{45}{2093}, \frac{45}{2093}, \frac{5}{91}, -\frac{25}{2093}, -\frac{120}{2093}, -\frac{50}{2093}, \frac{20}{2093}, \frac{90}{2093})$ $+ \frac{10}{2093}\sqrt{159}e^2 \otimes e_8 + \frac{5}{2093}\sqrt{2722}e^5 \otimes e_7 + \frac{5}{2093}\sqrt{534}e^1 \otimes e_6$	{12359, 5689}
93:17	$0, 0, 0, 0, 0, 0, \frac{5}{79}\sqrt{42}e^{12}, \frac{1}{79}\sqrt{70}e^{14} + \frac{5}{79}\sqrt{14}e^{35},$ $\frac{1}{79}\sqrt{70}e^{23} + \frac{4}{79}\sqrt{105}e^{45}$	$(\frac{31}{79}, -\frac{7}{79}, \frac{3}{79}, -\frac{16}{79}, \frac{12}{79}, -\frac{23}{79}, \frac{24}{79}, \frac{15}{79}, -\frac{4}{79})$ $+ \frac{2}{79}\sqrt{665}e^1 \otimes e_9 + \frac{8}{79}\sqrt{35}e^5 \otimes e_6$	{12345, 12368, 34689, 359}
93:17	$0, 0, 0, 0, 0, 0, \frac{7}{337}\sqrt{506}e^{12}, \frac{1}{337}\sqrt{48070}e^{14} + \frac{23}{337}\sqrt{66}e^{35},$ $\frac{1}{337}\sqrt{48070}e^{23} + \frac{12}{337}\sqrt{253}e^{45}$	$(\frac{193}{337}, -\frac{89}{337}, \frac{29}{337}, -\frac{112}{337}, \frac{52}{337}, \frac{55}{337}, \frac{104}{337}, \frac{81}{337}, -\frac{60}{337})$ $+ \frac{2}{337}\sqrt{35673}e^1 \otimes e_9$	{14567, 1457, 1678, 178, 246789, 24789, 25679, 2579}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{995}\sqrt{592334}e^{12}, \frac{3}{995}\sqrt{31882}e^{14} + \frac{3}{995}\sqrt{68798}e^{35},$ $\frac{1}{995}\sqrt{179546}e^{23} + \frac{4}{995}\sqrt{5034}e^{45}$	$(-\frac{21}{995}, -\frac{299}{995}, \frac{519}{995}, \frac{76}{199}, -\frac{32}{199}, \frac{161}{995}, -\frac{64}{199}, \frac{359}{995}, \frac{44}{199})$ $+ \frac{2}{995}\sqrt{349863}e^3 \otimes e_7$	{123468, 12348, 1235, 12356, 34569, 3459, 3689, 389}
93:17	$0, 0, 0, 0, 0, 0, \frac{7}{145}\sqrt{71}e^{12}, \frac{21}{145}\sqrt{2}e^{14} + \frac{21}{145}\sqrt{2}e^{35},$ $\frac{7}{145}\sqrt{59}e^{23} + \frac{14}{145}\sqrt{6}e^{45}$	$(\frac{39}{145}, -\frac{49}{145}, \frac{39}{145}, -\frac{1}{29}, -\frac{1}{29}, \frac{16}{145}, -\frac{2}{29}, \frac{34}{145}, -\frac{2}{29})$ $+ \frac{21}{145}\sqrt{15}e^1 \otimes e_9 - \frac{7}{145}\sqrt{123}e^3 \otimes e_7$	{12345, 123456, 12368, 1238, 34689, 3489, 3569, 359}
93:17	$0, 0, 0, 0, 0, 0, \frac{7}{145}\sqrt{71}e^{12}, \frac{21}{145}\sqrt{2}e^{14} + \frac{21}{145}\sqrt{2}e^{35},$ $\frac{7}{145}\sqrt{59}e^{23} + \frac{14}{145}\sqrt{6}e^{45}$	$(\frac{39}{145}, -\frac{49}{145}, \frac{39}{145}, -\frac{1}{29}, -\frac{1}{29}, \frac{16}{145}, -\frac{2}{29}, \frac{34}{145}, -\frac{2}{29})$ $+ \frac{21}{145}\sqrt{15}e^1 \otimes e_9 + \frac{7}{145}\sqrt{123}e^3 \otimes e_7$	{12345, 123456, 12368, 1238, 34689, 3489, 3569, 359}
93:17	$0, 0, 0, 0, 0, 0, \frac{36}{389}\sqrt{6}e^{12}, \frac{8}{389}\sqrt{85}e^{14} + \frac{72}{389}e^{35},$ $\frac{8}{389}\sqrt{85}e^{23} + \frac{12}{389}\sqrt{42}e^{45}$	$(\frac{11}{389}, -\frac{43}{389}, \frac{38}{389}, \frac{11}{389}, -\frac{16}{389}, \frac{30}{389}, -\frac{32}{389}, \frac{22}{389}, -\frac{5}{389})$ $+ \frac{24}{389}\sqrt{3}e^1 \otimes e_9 + \frac{4}{389}\sqrt{610}e^5 \otimes e_7$	{124568, 12458, 5689, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:17	$0, 0, 0, 0, 0, 0, \frac{72}{1153}\sqrt{42}e^{12}, \frac{9}{1153}\sqrt{1498}e^{14} + \frac{72}{1153}\sqrt{35}e^{35},$ $\frac{9}{1153}\sqrt{3290}e^{23} + \frac{72}{1153}\sqrt{21}e^{45}$	$(\frac{42}{1153}, -\frac{300}{1153}, \frac{309}{1153}, \frac{138}{1153}, -\frac{129}{1153}, \frac{576}{1153}, -\frac{258}{1153}, \frac{180}{1153}, \frac{9}{1153})$ $+ \frac{9}{1153}\sqrt{6286}e^6 \otimes e_9 + \frac{9}{1153}\sqrt{8078}e^3 \otimes e_7$	{145678, 167, 2479, 25789}
93:17	$0, 0, 0, 0, 0, 0, \frac{3}{10}\sqrt{5}e^{12}, \frac{3}{10}\sqrt{6}e^{14} + \frac{3}{5}\sqrt{2}e^{35},$ $\frac{3}{10}\sqrt{6}e^{23} + \frac{3}{5}\sqrt{2}e^{45}$	$(\frac{1}{5}, \frac{1}{5}, \frac{1}{20}, \frac{1}{20}, \frac{1}{5}, -\frac{7}{10}, \frac{2}{5}, \frac{1}{4}, \frac{1}{4})$ $+ \frac{3}{10}\sqrt{17}e^5 \otimes e_6$	{1234689, 12359, 126, 345, 368, 589}
93:17	$0, 0, 0, 0, 0, 0, \frac{1}{124}\sqrt{8711}e^{12}, \frac{1}{248}\sqrt{36530}e^{14} + \frac{3}{248}\sqrt{281}e^{35},$ $\frac{1}{248}\sqrt{1686}e^{23} + \frac{3}{248}\sqrt{281}e^{45}$	$(\frac{121}{248}, -\frac{15}{248}, \frac{103}{496}, -\frac{33}{496}, \frac{53}{248}, \frac{20}{31}, \frac{53}{124}, \frac{209}{496}, \frac{73}{496})$ $+ \frac{1}{124}\sqrt{28662}e^1 \otimes e_6$	{1347, 13578, 14579, 1789, 23456789, 23679, 24678, 2567}
93:17	$0, 0, 0, 0, 0, 0, \frac{4}{3209}\sqrt{126755}e^{12}, \frac{4}{3209}\sqrt{73730}e^{14} + \frac{2}{3209}\sqrt{89385}e^{35},$ $\frac{6}{3209}\sqrt{21715}e^{23} + \frac{30}{3209}\sqrt{1414}e^{45}$	$(\frac{7}{3209}, -\frac{321}{3209}, \frac{860}{3209}, \frac{696}{3209}, -\frac{157}{3209}, -\frac{1003}{3209}, -\frac{314}{3209}, \frac{703}{3209}, \frac{539}{3209})$ $+ \frac{2}{3209}\sqrt{655995}e^1 \otimes e_6 + \frac{2}{3209}\sqrt{815070}e^4 \otimes e_7$	{12349, 1245, 34568, 4689}
93:18	$0, 0, 0, 0, 0, 0, \frac{17}{1081}\sqrt{795}e^{14} - \frac{17}{1081}\sqrt{309}e^{23}, \frac{85}{1081}\sqrt{23}e^{13} + \frac{17}{47}e^{24},$ $\frac{34}{1081}\sqrt{33}e^{12} + \frac{17}{1081}\sqrt{794}e^{35}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, \frac{85}{1081}, -\frac{136}{1081})$ $+ \frac{17}{1081}\sqrt{1414}e^4 \otimes e_9 + \frac{34}{1081}\sqrt{133}e^6 \otimes e_7$	{1246, 1579, 25689, 478, 1246, 1579, 25689, 478}
93:18	$0, 0, 0, 0, 0, 0, \frac{17}{1081}\sqrt{795}e^{14} + \frac{17}{1081}\sqrt{309}e^{23}, \frac{85}{1081}\sqrt{23}e^{13} + \frac{17}{47}e^{24},$ $\frac{34}{1081}\sqrt{33}e^{12} + \frac{17}{1081}\sqrt{794}e^{35}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, \frac{85}{1081}, -\frac{136}{1081})$ $+ \frac{17}{1081}\sqrt{1414}e^4 \otimes e_9 + \frac{34}{1081}\sqrt{133}e^6 \otimes e_7$	{1246, 1579, 25689, 478, 1246, 1579, 25689, 478}
93:18	$0, 0, 0, 0, 0, 0, \frac{10}{203}\sqrt{42}e^{14} - \frac{50}{203}\sqrt{2}e^{23}, \frac{10}{203}\sqrt{2}e^{13} + \frac{10}{203}\sqrt{10}e^{24},$ $\frac{10}{203}\sqrt{43}e^{12} + \frac{10}{203}\sqrt{66}e^{35}$	$(\frac{20}{203}, \frac{20}{203}, -\frac{15}{203}, -\frac{15}{203}, \frac{55}{203}, -\frac{65}{203}, \frac{5}{203}, \frac{5}{203}, \frac{40}{203})$ $+ \frac{10}{203}\sqrt{82}e^3 \otimes e_6 + \frac{20}{203}\sqrt{26}e^5 \otimes e_7$	{235, 24678, 3479, 5689, 235, 24678, 3479, 5689}
93:18	$0, 0, 0, 0, 0, 0, \frac{10}{203}\sqrt{42}e^{14} + \frac{50}{203}\sqrt{2}e^{23}, \frac{10}{203}\sqrt{2}e^{13} + \frac{10}{203}\sqrt{10}e^{24},$ $\frac{10}{203}\sqrt{43}e^{12} + \frac{10}{203}\sqrt{66}e^{35}$	$(\frac{20}{203}, \frac{20}{203}, -\frac{15}{203}, -\frac{15}{203}, \frac{55}{203}, -\frac{65}{203}, \frac{5}{203}, \frac{5}{203}, \frac{40}{203})$ $+ \frac{10}{203}\sqrt{82}e^3 \otimes e_6 + \frac{20}{203}\sqrt{26}e^5 \otimes e_7$	{235, 24678, 3479, 5689, 235, 24678, 3479, 5689}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{19}\sqrt{7}e^{14} - \frac{6}{19}\sqrt{3}e^{23}, \frac{6}{19}\sqrt{3}e^{13} + \frac{6}{19}\sqrt{7}e^{24},$ $\frac{6}{19}\sqrt{3}e^{12} + \frac{12}{19}e^{35}$	$(\frac{2}{19}, \frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{13}{19}, \frac{7}{19}, \frac{7}{19}, \frac{4}{19})$ $+ \frac{24}{19}e^4 \otimes e_6$	{1236789, 12459, 13458, 167, 369, 45789, 1236789, 12459, 13458, 167, 369, 45789}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{19}\sqrt{7}e^{14} + \frac{6}{19}\sqrt{3}e^{23}, \frac{6}{19}\sqrt{3}e^{13} + \frac{6}{19}\sqrt{7}e^{24},$ $\frac{6}{19}\sqrt{3}e^{12} + \frac{12}{19}e^{35}$	$(\frac{2}{19}, \frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{13}{19}, \frac{7}{19}, \frac{7}{19}, \frac{4}{19})$ $+ \frac{24}{19}e^4 \otimes e_6$	{1236789, 12459, 13458, 167, 369, 45789, 1236789, 12459, 13458, 167, 369, 45789}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{186}e^{14} - \frac{2}{51}\sqrt{155}e^{23}, \frac{2}{51}\sqrt{155}e^{13} + \frac{2}{51}\sqrt{186}e^{24},$ $\frac{2}{51}\sqrt{155}e^{12} + \frac{2}{51}\sqrt{682}e^{35}$	$(\frac{13}{51}, \frac{13}{51}, -\frac{1}{17}, -\frac{1}{17}, \frac{29}{51}, -\frac{11}{17}, \frac{10}{51}, \frac{10}{51}, \frac{26}{51})$ $+ \frac{2}{51}\sqrt{1302}e^5 \otimes e_6$	{1236789, 12459, 13458, 167, 369, 45789, 1236789, 12459, 13458, 167, 369, 45789}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{186}e^{14} + \frac{2}{51}\sqrt{155}e^{23}, \frac{2}{51}\sqrt{155}e^{13} + \frac{2}{51}\sqrt{186}e^{24},$ $\frac{2}{51}\sqrt{155}e^{12} + \frac{2}{51}\sqrt{682}e^{35}$	$(\frac{13}{51}, \frac{13}{51}, -\frac{1}{17}, -\frac{1}{17}, \frac{29}{51}, -\frac{11}{17}, \frac{10}{51}, \frac{10}{51}, \frac{26}{51})$ $+ \frac{2}{51}\sqrt{1302}e^5 \otimes e_6$	{1236789, 12459, 13458, 167, 369, 45789, 1236789, 12459, 13458, 167, 369, 45789}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{66}e^{14} - \frac{1}{28}\sqrt{77}e^{23}, \frac{1}{28}\sqrt{77}e^{13} + \frac{1}{28}\sqrt{66}e^{24},$ $\frac{1}{28}\sqrt{22}e^{12} + \frac{1}{14}\sqrt{22}e^{35}$	$(-\frac{1}{56}, -\frac{1}{56}, 0, 0, -\frac{1}{28}, \frac{5}{28}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{28})$ $+ \frac{1}{14}\sqrt{19}e^3 \otimes e_5 + \frac{1}{28}\sqrt{122}e^4 \otimes e_9$	{124, 1246, 4678, 478, 124, 1246, 4678, 478}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{66}e^{14} + \frac{1}{28}\sqrt{77}e^{23}, \frac{1}{28}\sqrt{77}e^{13} + \frac{1}{28}\sqrt{66}e^{24},$ $\frac{1}{28}\sqrt{22}e^{12} + \frac{1}{14}\sqrt{22}e^{35}$	$(-\frac{1}{56}, -\frac{1}{56}, 0, 0, -\frac{1}{28}, \frac{5}{28}, -\frac{1}{56}, -\frac{1}{56}, -\frac{1}{28})$ $+ \frac{1}{14}\sqrt{19}e^3 \otimes e_5 + \frac{1}{28}\sqrt{122}e^4 \otimes e_9$	{124, 1246, 4678, 478, 124, 1246, 4678, 478}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{597}\sqrt{60645}e^{14} - \frac{2}{597}\sqrt{59401}e^{23},$ $\frac{2}{597}\sqrt{18971}e^{13} + \frac{2}{597}\sqrt{17727}e^{24}, \frac{2}{597}\sqrt{18971}e^{12} + \frac{4}{597}\sqrt{622}e^{35}$	$(\frac{20}{597}, \frac{20}{597}, -\frac{15}{199}, -\frac{15}{199}, \frac{85}{597}, 1, -\frac{25}{597}, -\frac{25}{597}, \frac{40}{597})$ $+ \frac{4}{199}\sqrt{4354}e^6 \otimes e_7$	{1234689, 12579, 13578, 146, 2356, 2478, 3479, 5689, 1234689, 12579, 13578, 146, 2356, 2478, 3479, 5689}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{597}\sqrt{60645}e^{14} + \frac{2}{597}\sqrt{59401}e^{23},$ $\frac{2}{597}\sqrt{18971}e^{13} + \frac{2}{597}\sqrt{17727}e^{24}, \frac{2}{597}\sqrt{18971}e^{12} + \frac{4}{597}\sqrt{622}e^{35}$	$(\frac{20}{597}, \frac{20}{597}, -\frac{15}{199}, -\frac{15}{199}, \frac{85}{597}, 1, -\frac{25}{597}, -\frac{25}{597}, \frac{40}{597})$ $+ \frac{4}{199}\sqrt{4354}e^6 \otimes e_7$	{1234689, 12579, 13578, 146, 2356, 2478, 3479, 5689, 1234689, 12579, 13578, 146, 2356, 2478, 3479, 5689}
93:18	$0, 0, 0, 0, 0, 0, \frac{3}{8}\sqrt{2}e^{14} - \frac{1}{8}\sqrt{15}e^{23}, \frac{1}{8}\sqrt{15}e^{13} + \frac{3}{8}\sqrt{2}e^{24},$ $\frac{1}{8}\sqrt{6}e^{12} + \frac{1}{4}\sqrt{6}e^{35}$	$(-\frac{1}{16}, -\frac{1}{16}, \frac{1}{4}, \frac{1}{4}, -\frac{3}{8}, \frac{1}{8}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{8})$ $+ \frac{1}{8}\sqrt{42}e^4 \otimes e_9$	{124, 1246, 15679, 1579, 4678, 478, 124, 1246, 15679, 1579, 4678, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:18	$0, 0, 0, 0, 0, 0, \frac{3}{8}\sqrt{2}e^{14} + \frac{1}{8}\sqrt{15}e^{23}, \frac{1}{8}\sqrt{15}e^{13} + \frac{3}{8}\sqrt{2}e^{24},$ $\frac{1}{8}\sqrt{6}e^{12} + \frac{1}{4}\sqrt{6}e^{35}$	$(-\frac{1}{16}, -\frac{1}{16}, \frac{1}{4}, \frac{1}{4}, -\frac{3}{8}, \frac{1}{8}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{8})$ $+\frac{1}{8}\sqrt{42}e^4 \otimes e_9$	{124, 1246, 15679, 1579, 4678, 478, 124, 1246, 15679, 1579, 4678, 478}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{483}\sqrt{1173}e^{14} - \frac{1}{483}\sqrt{285}e^{23}, \frac{1}{161}\sqrt{95}e^{13} + \frac{1}{161}\sqrt{67}e^{24},$ $\frac{2}{483}\sqrt{21}e^{12} + \frac{1}{483}\sqrt{1374}e^{35}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+\frac{1}{483}\sqrt{1542}e^4 \otimes e_9 + \frac{2}{483}\sqrt{285}e^5 \otimes e_7$	{1236789, 123789, 134568, 13458, 1236789, 123789, 134568, 13458}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{483}\sqrt{1173}e^{14} + \frac{1}{483}\sqrt{285}e^{23}, \frac{1}{161}\sqrt{95}e^{13} + \frac{1}{161}\sqrt{67}e^{24},$ $\frac{2}{483}\sqrt{21}e^{12} + \frac{1}{483}\sqrt{1374}e^{35}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+\frac{1}{483}\sqrt{1542}e^4 \otimes e_9 + \frac{2}{483}\sqrt{285}e^5 \otimes e_7$	{1236789, 123789, 134568, 13458, 1236789, 123789, 134568, 13458}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{143}\sqrt{161}e^{14} - \frac{2}{143}\sqrt{3795}e^{23}, \frac{2}{143}\sqrt{3795}e^{13} + \frac{6}{143}\sqrt{161}e^{24},$ $\frac{2}{143}\sqrt{483}e^{12} + \frac{4}{143}\sqrt{483}e^{35}$	$(-\frac{8}{143}, -\frac{8}{143}, \frac{61}{143}, \frac{61}{143}, -\frac{7}{13}, \frac{19}{143}, \frac{53}{143}, \frac{53}{143}, -\frac{16}{143})$ $+\frac{4}{143}\sqrt{2139}e^3 \otimes e_5$	{13467, 1347, 1568, 158, 13467, 1347, 1568, 158}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{143}\sqrt{161}e^{14} + \frac{2}{143}\sqrt{3795}e^{23}, \frac{2}{143}\sqrt{3795}e^{13} + \frac{6}{143}\sqrt{161}e^{24},$ $\frac{2}{143}\sqrt{483}e^{12} + \frac{4}{143}\sqrt{483}e^{35}$	$(-\frac{8}{143}, -\frac{8}{143}, \frac{61}{143}, \frac{61}{143}, -\frac{7}{13}, \frac{19}{143}, \frac{53}{143}, \frac{53}{143}, -\frac{16}{143})$ $+\frac{4}{143}\sqrt{2139}e^3 \otimes e_5$	{13467, 1347, 1568, 158, 13467, 1347, 1568, 158}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{259}e^{14} - \frac{1}{63}\sqrt{231}e^{23}, \frac{1}{63}\sqrt{231}e^{13} + \frac{1}{63}\sqrt{259}e^{24},$ $\frac{1}{63}\sqrt{42}e^{12} + \frac{1}{63}\sqrt{434}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 0)$ $+\frac{1}{63}\sqrt{266}e^5 \otimes e_6 + \frac{1}{63}\sqrt{546}e^4 \otimes e_9$	{1246, 1579, 4678, 1246, 1579, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{259}e^{14} + \frac{1}{63}\sqrt{231}e^{23}, \frac{1}{63}\sqrt{231}e^{13} + \frac{1}{63}\sqrt{259}e^{24},$ $\frac{1}{63}\sqrt{42}e^{12} + \frac{1}{63}\sqrt{434}e^{35}$	$(0, 0, \frac{1}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{2}{9}, \frac{1}{9}, \frac{1}{9}, 0)$ $+\frac{1}{63}\sqrt{266}e^5 \otimes e_6 + \frac{1}{63}\sqrt{546}e^4 \otimes e_9$	{1246, 1579, 4678, 1246, 1579, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{605}\sqrt{5773}e^{14} - \frac{6}{605}\sqrt{2921}e^{23},$ $\frac{6}{605}\sqrt{3059}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{6}{605}\sqrt{3059}e^{12} + \frac{12}{605}\sqrt{1426}e^{35}$	$(\frac{20}{121}, \frac{20}{121}, -\frac{157}{605}, -\frac{157}{605}, \frac{357}{605}, \frac{17}{121}, -\frac{57}{605}, -\frac{57}{605}, \frac{40}{121})$ $+\frac{12}{605}\sqrt{2990}e^5 \otimes e_7$	{235, 2356, 24678, 2478, 34679, 3479, 5689, 589, 235, 2356, 24678, 2478, 34679, 3479, 5689, 589}
93:18	$0, 0, 0, 0, 0, 0, \frac{6}{605}\sqrt{5773}e^{14} + \frac{6}{605}\sqrt{2921}e^{23},$ $\frac{6}{605}\sqrt{3059}e^{13} + \frac{18}{605}\sqrt{23}e^{24}, \frac{6}{605}\sqrt{3059}e^{12} + \frac{12}{605}\sqrt{1426}e^{35}$	$(\frac{20}{121}, \frac{20}{121}, -\frac{157}{605}, -\frac{157}{605}, \frac{357}{605}, \frac{17}{121}, -\frac{57}{605}, -\frac{57}{605}, \frac{40}{121})$ $+\frac{12}{605}\sqrt{2990}e^5 \otimes e_7$	{235, 2356, 24678, 2478, 34679, 3479, 5689, 589, 235, 2356, 24678, 2478, 34679, 3479, 5689, 589}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{152}\sqrt{1610}e^{14} - \frac{1}{152}\sqrt{6279}e^{23},$ $\frac{1}{152}\sqrt{6279}e^{13} + \frac{1}{152}\sqrt{1610}e^{24}, \frac{1}{76}\sqrt{3542}e^{12} + \frac{7}{152}\sqrt{322}e^{35}$	$(-\frac{9}{304}, -\frac{9}{304}, \frac{15}{152}, \frac{15}{152}, -\frac{3}{19}, 1, \frac{21}{304}, \frac{21}{304}, -\frac{9}{152})$ $+\frac{1}{152}\sqrt{40894}e^6 \otimes e_9$	{1235678, 1246, 13489, 1579, 356, 4678, 1235678, 1246, 13489, 1579, 356, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{152}\sqrt{1610}e^{14} + \frac{1}{152}\sqrt{6279}e^{23},$ $\frac{1}{152}\sqrt{6279}e^{13} + \frac{1}{152}\sqrt{1610}e^{24}, \frac{1}{76}\sqrt{3542}e^{12} + \frac{7}{152}\sqrt{322}e^{35}$	$(-\frac{9}{304}, -\frac{9}{304}, \frac{15}{152}, \frac{15}{152}, -\frac{3}{19}, 1, \frac{21}{304}, \frac{21}{304}, -\frac{9}{152})$ $+\frac{1}{152}\sqrt{40894}e^6 \otimes e_9$	{1235678, 1246, 13489, 1579, 356, 4678, 1235678, 1246, 13489, 1579, 356, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{110}e^{14} - \frac{2}{49}\sqrt{74}e^{23}, \frac{2}{49}\sqrt{74}e^{13} + \frac{2}{49}\sqrt{110}e^{24},$ $\frac{4}{49}\sqrt{6}e^{12} + \frac{4}{49}\sqrt{43}e^{35}$	$(-\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, \frac{12}{49}, \frac{16}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+\frac{4}{49}\sqrt{19}e^3 \otimes e_6 + \frac{8}{49}\sqrt{17}e^4 \otimes e_9$	{1246, 15679, 4678, 1246, 15679, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{110}e^{14} + \frac{2}{49}\sqrt{74}e^{23}, \frac{2}{49}\sqrt{74}e^{13} + \frac{2}{49}\sqrt{110}e^{24},$ $\frac{4}{49}\sqrt{6}e^{12} + \frac{4}{49}\sqrt{43}e^{35}$	$(-\frac{2}{49}, -\frac{2}{49}, \frac{12}{49}, \frac{12}{49}, -\frac{16}{49}, -\frac{4}{49}, \frac{10}{49}, \frac{10}{49}, -\frac{4}{49})$ $+\frac{4}{49}\sqrt{19}e^3 \otimes e_6 + \frac{8}{49}\sqrt{17}e^4 \otimes e_9$	{1246, 15679, 4678, 1246, 15679, 4678}
93:18	$0, 0, 0, 0, 0, 0, \frac{13}{252}\sqrt{38}e^{14} - \frac{65}{252}\sqrt{3}e^{23}, \frac{65}{252}\sqrt{3}e^{13} + \frac{13}{252}\sqrt{38}e^{24},$ $\frac{13}{126}\sqrt{14}e^{12} + \frac{13}{84}\sqrt{2}e^{35}$	$(-\frac{13}{168}, -\frac{13}{168}, \frac{65}{252}, \frac{65}{252}, -\frac{26}{63}, \frac{65}{126}, \frac{13}{72}, \frac{13}{72}, -\frac{13}{84})$ $+\frac{13}{126}\sqrt{61}e^3 \otimes e_5 + \frac{13}{252}\sqrt{206}e^6 \otimes e_9$	{13479, 1589, 13479, 1589}
93:18	$0, 0, 0, 0, 0, 0, \frac{13}{252}\sqrt{38}e^{14} + \frac{65}{252}\sqrt{3}e^{23}, \frac{65}{252}\sqrt{3}e^{13} + \frac{13}{252}\sqrt{38}e^{24},$ $\frac{13}{126}\sqrt{14}e^{12} + \frac{13}{84}\sqrt{2}e^{35}$	$(-\frac{13}{168}, -\frac{13}{168}, \frac{65}{252}, \frac{65}{252}, -\frac{26}{63}, \frac{65}{126}, \frac{13}{72}, \frac{13}{72}, -\frac{13}{84})$ $+\frac{13}{126}\sqrt{61}e^3 \otimes e_5 + \frac{13}{252}\sqrt{206}e^6 \otimes e_9$	{13479, 1589, 13479, 1589}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{759}e^{14} - \frac{1}{21}\sqrt{23}e^{23}, \frac{5}{63}\sqrt{23}e^{13} + \frac{1}{63}\sqrt{23}e^{24},$ $\frac{1}{63}\sqrt{46}e^{12} + \frac{4}{63}\sqrt{69}e^{35}$	$(\frac{1}{21}, \frac{1}{21}, -\frac{10}{63}, -\frac{10}{63}, \frac{16}{63}, \frac{29}{63}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{21})$ $+\frac{23}{63}\sqrt{2}e^6 \otimes e_9 + \frac{2}{63}\sqrt{391}e^5 \otimes e_7$	{2356, 24678, 3479, 589, 2356, 24678, 3479, 589}
93:18	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{759}e^{14} + \frac{1}{21}\sqrt{23}e^{23}, \frac{5}{63}\sqrt{23}e^{13} + \frac{1}{63}\sqrt{23}e^{24},$ $\frac{1}{63}\sqrt{46}e^{12} + \frac{4}{63}\sqrt{69}e^{35}$	$(\frac{1}{21}, \frac{1}{21}, -\frac{10}{63}, -\frac{10}{63}, \frac{16}{63}, \frac{29}{63}, -\frac{1}{9}, -\frac{1}{9}, \frac{2}{21})$ $+\frac{23}{63}\sqrt{2}e^6 \otimes e_9 + \frac{2}{63}\sqrt{391}e^5 \otimes e_7$	{2356, 24678, 3479, 589, 2356, 24678, 3479, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:18	$0, 0, 0, 0, 0, \frac{6}{19}e^{14} - \frac{6}{19}\sqrt{5}e^{23}, \frac{6}{19}\sqrt{5}e^{13} + \frac{6}{19}e^{24},$ $\frac{6}{19}\sqrt{3}e^{12} + \frac{12}{19}e^{35}$	$(\frac{2}{19}, \frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{13}{19}, \frac{7}{19}, \frac{7}{19}, \frac{4}{19})$ $+ \frac{24}{19}e^3 \otimes e_6$	{1239, 12456789, 13457, 168, 3789, 4569, 1239, 12456789, 13457, 168, 3789, 4569}
93:18	$0, 0, 0, 0, 0, \frac{6}{19}e^{14} + \frac{6}{19}\sqrt{5}e^{23}, \frac{6}{19}\sqrt{5}e^{13} + \frac{6}{19}e^{24},$ $\frac{6}{19}\sqrt{3}e^{12} + \frac{12}{19}e^{35}$	$(\frac{2}{19}, \frac{2}{19}, \frac{5}{19}, \frac{5}{19}, -\frac{1}{19}, -\frac{13}{19}, \frac{7}{19}, \frac{7}{19}, \frac{4}{19})$ $+ \frac{24}{19}e^3 \otimes e_6$	{1239, 12456789, 13457, 168, 3789, 4569, 1239, 12456789, 13457, 168, 3789, 4569}
93:18	$0, 0, 0, 0, 0, \frac{72}{593}\sqrt{29}e^{14} - \frac{6}{593}\sqrt{2291}e^{23},$ $\frac{30}{593}\sqrt{203}e^{13} + \frac{6}{593}\sqrt{3190}e^{24}, \frac{30}{593}\sqrt{203}e^{12} + \frac{6}{593}\sqrt{1798}e^{35}$	$(\frac{99}{593}, \frac{99}{593}, \frac{51}{593}, \frac{51}{593}, \frac{147}{593}, -\frac{423}{593}, \frac{150}{593}, \frac{150}{593}, \frac{198}{593})$ $+ \frac{12}{593}\sqrt{3683}e^1 \otimes e_6$	{1237, 12458, 13459, 1789, 23456789, 269, 368, 4567, 1237, 12458, 13459, 1789, 23456789, 269, 368, 4567}
93:18	$0, 0, 0, 0, 0, \frac{72}{593}\sqrt{29}e^{14} + \frac{6}{593}\sqrt{2291}e^{23},$ $\frac{30}{593}\sqrt{203}e^{13} + \frac{6}{593}\sqrt{3190}e^{24}, \frac{30}{593}\sqrt{203}e^{12} + \frac{6}{593}\sqrt{1798}e^{35}$	$(\frac{99}{593}, \frac{99}{593}, \frac{51}{593}, \frac{51}{593}, \frac{147}{593}, -\frac{423}{593}, \frac{150}{593}, \frac{150}{593}, \frac{198}{593})$ $+ \frac{12}{593}\sqrt{3683}e^1 \otimes e_6$	{1237, 12458, 13459, 1789, 23456789, 269, 368, 4567, 1237, 12458, 13459, 1789, 23456789, 269, 368, 4567}
93:18	$0, 0, 0, 0, 0, \frac{15}{371}\sqrt{83}e^{14} - \frac{5}{371}\sqrt{591}e^{23}, \frac{5}{371}\sqrt{249}e^{13} + \frac{45}{371}\sqrt{5}e^{24},$ $\frac{10}{371}\sqrt{105}e^{12} + \frac{5}{371}\sqrt{654}e^{35}$	$(-\frac{5}{371}, -\frac{5}{371}, \frac{65}{371}, \frac{65}{371}, -\frac{75}{371}, -\frac{80}{371}, \frac{60}{371}, \frac{60}{371}, -\frac{10}{371})$ $+ \frac{30}{371}\sqrt{19}e^1 \otimes e_6 + \frac{5}{371}\sqrt{1338}e^4 \otimes e_9$	{124, 1579, 25689, 4678, 124, 1579, 25689, 4678}
93:18	$0, 0, 0, 0, 0, \frac{15}{371}\sqrt{83}e^{14} + \frac{5}{371}\sqrt{591}e^{23}, \frac{5}{371}\sqrt{249}e^{13} + \frac{45}{371}\sqrt{5}e^{24},$ $\frac{10}{371}\sqrt{105}e^{12} + \frac{5}{371}\sqrt{654}e^{35}$	$(-\frac{5}{371}, -\frac{5}{371}, \frac{65}{371}, \frac{65}{371}, -\frac{75}{371}, -\frac{80}{371}, \frac{60}{371}, \frac{60}{371}, -\frac{10}{371})$ $+ \frac{30}{371}\sqrt{19}e^1 \otimes e_6 + \frac{5}{371}\sqrt{1338}e^4 \otimes e_9$	{124, 1579, 25689, 4678, 124, 1579, 25689, 4678}
93:19	$0, 0, 0, 0, 0, \frac{221}{1589}\sqrt{6}e^{14} + \frac{17}{1589}\sqrt{497}e^{23},$ $\frac{34}{1589}\sqrt{93}e^{13} + \frac{51}{1589}\sqrt{69}e^{25}, \frac{17}{1589}\sqrt{755}e^{12} + \frac{17}{1589}\sqrt{766}e^{45}$	$(\frac{187}{1589}, -\frac{51}{1589}, \frac{68}{1589}, -\frac{170}{1589}, \frac{306}{1589}, -\frac{459}{1589}, \frac{17}{1589}, \frac{255}{1589}, \frac{136}{1589})$ $+ \frac{17}{1589}\sqrt{1738}e^5 \otimes e_7 + \frac{51}{1589}\sqrt{131}e^4 \otimes e_6$	{3479, 5689}
93:19	$0, 0, 0, 0, 0, \frac{1}{161}\sqrt{190}e^{14} + \frac{9}{161}\sqrt{2}e^{23}, \frac{9}{161}\sqrt{2}e^{13} + \frac{1}{161}\sqrt{190}e^{25},$ $\frac{3}{161}\sqrt{6}e^{12} + \frac{6}{161}\sqrt{6}e^{45}$	$(-\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, -\frac{1}{161}, \frac{12}{161}, \frac{1}{161}, -\frac{2}{161}, -\frac{2}{161}, -\frac{2}{161})$ $+ \frac{1}{161}\sqrt{298}e^3 \otimes e_9$	{123, 1236, 3678, 378}
93:19	$0, 0, 0, 0, 0, \frac{6}{161}\sqrt{30}e^{14} + \frac{6}{161}\sqrt{39}e^{23}, \frac{6}{161}\sqrt{165}e^{13} + \frac{6}{161}\sqrt{30}e^{25},$ $\frac{6}{161}\sqrt{111}e^{12} + \frac{18}{161}\sqrt{13}e^{45}$	$(-\frac{12}{161}, \frac{30}{161}, \frac{9}{161}, \frac{51}{161}, -\frac{33}{161}, \frac{45}{161}, \frac{39}{161}, -\frac{3}{161}, \frac{18}{161})$ $+ \frac{36}{161}\sqrt{7}e^4 \otimes e_8 + \frac{6}{161}\sqrt{183}e^3 \otimes e_6$	{238, 24567}
93:19	$0, 0, 0, 0, 0, \frac{40}{2323}\sqrt{781}e^{14} + \frac{40}{2323}\sqrt{3}e^{23},$ $\frac{40}{2323}\sqrt{254}e^{13} + \frac{40}{2323}\sqrt{518}e^{25}, \frac{80}{2323}\sqrt{131}e^{12} + \frac{40}{2323}\sqrt{253}e^{45}$	$(-\frac{280}{2323}, \frac{240}{2323}, -\frac{20}{2323}, \frac{500}{2323}, -\frac{540}{2323}, \frac{1020}{2323}, \frac{220}{2323}, -\frac{300}{2323}, -\frac{40}{2323})$ $+ \frac{40}{2323}\sqrt{1303}e^4 \otimes e_8 + \frac{40}{2323}\sqrt{789}e^6 \otimes e_7$	{35689, 479}
93:19	$0, 0, 0, 0, 0, \frac{2}{521}\sqrt{41610}e^{14} + \frac{6}{521}\sqrt{95}e^{23}, \frac{6}{521}\sqrt{95}e^{13} + \frac{2}{521}\sqrt{570}e^{25},$ $\frac{2}{521}\sqrt{20235}e^{12} + \frac{4}{521}\sqrt{10545}e^{45}$	$(\frac{11}{521}, \frac{155}{521}, \frac{83}{521}, \frac{227}{521}, -\frac{61}{521}, -\frac{343}{521}, \frac{238}{521}, \frac{94}{521}, \frac{166}{521})$ $+ \frac{72}{521}\sqrt{95}e^4 \otimes e_6$	{1367, 1458, 2368, 2457}
93:19	$0, 0, 0, 0, 0, \frac{1}{2513}\sqrt{2654}e^{14} + \frac{1}{2513}\sqrt{2262}e^{23},$ $\frac{9}{2513}\sqrt{30}e^{13} + \frac{1}{2513}\sqrt{2766}e^{25}, \frac{1}{2513}\sqrt{894}e^{12} + \frac{32}{2513}\sqrt{3}e^{45}$	$(\frac{13}{2513}, -\frac{15}{2513}, -\frac{1}{2513}, -\frac{29}{2513}, \frac{27}{2513}, \frac{12}{2513}, -\frac{16}{2513}, \frac{12}{2513}, -\frac{2}{2513})$ $+ \frac{1}{2513}\sqrt{4330}e^3 \otimes e_9 + \frac{4}{2513}\sqrt{21}e^1 \otimes e_6$	{123, 3678}
93:19	$0, 0, 0, 0, 0, \frac{114}{2045}\sqrt{226}e^{14} + \frac{1596}{2045}e^{23}, \frac{342}{2045}\sqrt{10}e^{13} + \frac{38}{2045}\sqrt{318}e^{25},$ $\frac{38}{2045}\sqrt{699}e^{12} + \frac{38}{2045}\sqrt{222}e^{45}$	$(\frac{154}{2045}, -\frac{132}{2045}, \frac{11}{2045}, -\frac{55}{409}, \frac{297}{2045}, 1, -\frac{121}{2045}, \frac{33}{409}, \frac{22}{2045})$ $+ \frac{228}{2045}\sqrt{143}e^6 \otimes e_7$	{13578, 146, 2356, 2478}
93:19	$0, 0, 0, 0, 0, \frac{1}{13}\sqrt{78}e^{14} + \frac{1}{13}\sqrt{26}e^{23}, \frac{1}{13}\sqrt{26}e^{13} + \frac{1}{13}\sqrt{78}e^{25},$ $\frac{2}{13}\sqrt{26}e^{12} + \frac{1}{13}\sqrt{130}e^{45}$	$(0, 0, 0, 0, 0, 1, 0, 0, 0)$ $+ \frac{1}{13}\sqrt{286}e^6 \otimes e_9$	{1236, 1245678, 3678, 456}
93:19	$0, 0, 0, 0, 0, \frac{40}{101}e^{14} + \frac{5}{101}\sqrt{42}e^{23}, \frac{25}{101}\sqrt{2}e^{13} + \frac{5}{101}\sqrt{38}e^{25},$ $\frac{10}{101}\sqrt{2}e^{12} + \frac{5}{101}\sqrt{10}e^{45}$	$(-\frac{5}{101}, \frac{15}{101}, \frac{5}{101}, \frac{25}{101}, -\frac{15}{101}, -\frac{30}{101}, \frac{20}{101}, 0, \frac{10}{101})$ $+ \frac{5}{101}\sqrt{106}e^4 \otimes e_8 + \frac{5}{101}\sqrt{78}e^1 \otimes e_6$	{35689, 4679}
93:19	$0, 0, 0, 0, 0, \frac{34}{2033}\sqrt{1866}e^{14} + \frac{6}{2033}\sqrt{44473}e^{23},$ $\frac{6}{2033}\sqrt{45095}e^{13} + \frac{2}{2033}\sqrt{1866}e^{25}, \frac{2}{2033}\sqrt{538341}e^{12} + \frac{4}{2033}\sqrt{66243}e^{45}$	$(\frac{443}{2033}, \frac{155}{2033}, \frac{299}{2033}, \frac{11}{2033}, \frac{587}{2033}, -\frac{1423}{2033}, \frac{454}{2033}, \frac{742}{2033}, \frac{598}{2033})$ $+ \frac{144}{2033}\sqrt{311}e^1 \otimes e_6$	{12357, 1248, 3568, 467}
93:19	$0, 0, 0, 0, 0, \frac{2}{695}\sqrt{46398}e^{14} + \frac{38}{695}\sqrt{66}e^{23},$ $\frac{4}{695}\sqrt{9614}e^{13} + \frac{2}{695}\sqrt{46398}e^{25}, \frac{22}{695}\sqrt{323}e^{12} + \frac{4}{695}\sqrt{30514}e^{45}$	$(-\frac{24}{139}, \frac{178}{695}, \frac{29}{695}, \frac{327}{695}, -\frac{269}{695}, \frac{99}{695}, \frac{207}{695}, -\frac{91}{695}, \frac{58}{695})$ $+ \frac{4}{695}\sqrt{31141}e^4 \otimes e_8$	{35689, 3589, 4679, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:19	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{6}e^{14} + \frac{6}{7}e^{23}, \frac{6}{7}e^{13} + \frac{2}{7}\sqrt{6}e^{25},$ $\frac{2}{7}\sqrt{3}e^{12} + \frac{2}{7}\sqrt{6}e^{45}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{5}{7}, \frac{2}{7}, \frac{2}{7}, \frac{2}{7})$ $+ \frac{6}{7}\sqrt{2}e^3 \otimes e_6$	{13457, 168}
93:19	$0, 0, 0, 0, 0, 0, \frac{666}{3101}\sqrt{6}e^{14} + \frac{74}{3101}\sqrt{131}e^{23},$ $\frac{296}{3101}\sqrt{3}e^{13} + \frac{37}{3101}\sqrt{1266}e^{25}, \frac{37}{3101}\sqrt{422}e^{12} + \frac{74}{3101}\sqrt{115}e^{45}$	$(\frac{703}{3101}, -\frac{333}{3101}, \frac{185}{3101}, -\frac{851}{3101}, \frac{1221}{3101}, -\frac{666}{3101}, -\frac{148}{3101}, \frac{888}{3101}, \frac{370}{3101})$ $+ \frac{111}{3101}\sqrt{226}e^1 \otimes e_6 + \frac{37}{3101}\sqrt{3466}e^5 \otimes e_7$	{34679, 5689}
93:19	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{858}e^{14} + \frac{4}{91}\sqrt{39}e^{23}, \frac{6}{91}\sqrt{39}e^{13} + \frac{1}{91}\sqrt{858}e^{25},$ $\frac{6}{91}\sqrt{13}e^{12} + \frac{5}{91}\sqrt{78}e^{45}$	$(-\frac{1}{7}, \frac{1}{7}, 0, \frac{2}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{1}{7}, -\frac{1}{7}, 0)$ $+ \frac{1}{91}\sqrt{2262}e^6 \otimes e_9 + \frac{2}{7}\sqrt{6}e^4 \otimes e_8$	{3589, 479}
93:19	$0, 0, 0, 0, 0, 0, \frac{1}{2189}\sqrt{2894}e^{14} + \frac{18}{2189}\sqrt{7}e^{23},$ $\frac{2}{2189}\sqrt{606}e^{13} + \frac{3}{2189}\sqrt{310}e^{25}, \frac{1}{2189}\sqrt{834}e^{12} + \frac{2}{2189}\sqrt{795}e^{45}$	$(-\frac{14}{2189}, \frac{12}{2189}, -\frac{1}{2189}, \frac{25}{2189}, -\frac{27}{2189}, \frac{12}{2189}, \frac{1}{199}, -\frac{15}{2189}, -\frac{2}{2189})$ $+ \frac{1}{2189}\sqrt{4354}e^3 \otimes e_9 + \frac{2}{2189}\sqrt{78}e^6 \otimes e_7$	{123, 3678}
93:19	$0, 0, 0, 0, 0, 0, \frac{1}{749}\sqrt{806}e^{14} + \frac{2}{749}\sqrt{177}e^{23}, \frac{2}{749}\sqrt{177}e^{13} + \frac{1}{749}\sqrt{834}e^{25},$ $\frac{1}{749}\sqrt{222}e^{12} + \frac{18}{749}\sqrt{3}e^{45}$	$(-\frac{8}{749}, \frac{6}{749}, -\frac{1}{749}, \frac{13}{749}, -\frac{15}{749}, \frac{12}{749}, \frac{5}{749}, -\frac{9}{749}, -\frac{2}{749})$ $+ \frac{1}{749}\sqrt{1306}e^3 \otimes e_9 + \frac{2}{749}\sqrt{21}e^4 \otimes e_6$	{1236, 3678}
93:20	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{210}e^{13} + \frac{2}{35}\sqrt{42}e^{24}, \frac{2}{35}\sqrt{42}e^{15} + \frac{2}{5}e^{23},$ $\frac{1}{35}\sqrt{182}e^{14} + \frac{4}{35}\sqrt{14}e^{25}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{35}\sqrt{406}e^4 \otimes e_8 + \frac{1}{35}\sqrt{42}e^3 \otimes e_6$	{358, 4679}
93:20	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{13} + \frac{1}{35}\sqrt{210}e^{24}, \frac{4}{35}\sqrt{14}e^{15} + \frac{2}{35}\sqrt{42}e^{23},$ $\frac{2}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{182}e^{25}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{406}e^3 \otimes e_9 + \frac{1}{35}\sqrt{42}e^6 \otimes e_7$	{378, 4569}
93:20	$0, 0, 0, 0, 0, 0, \frac{12}{209}\sqrt{210}e^{13} + \frac{12}{209}\sqrt{210}e^{24},$ $\frac{2}{209}\sqrt{1365}e^{15} + \frac{2}{209}\sqrt{4830}e^{23}, \frac{2}{209}\sqrt{4830}e^{14} + \frac{2}{209}\sqrt{1365}e^{25}$	$(-\frac{7}{209}, -\frac{7}{209}, \frac{6}{209}, \frac{6}{209}, \frac{6}{209}, 1, -\frac{1}{209}, -\frac{1}{209}, -\frac{1}{209})$ $+ \frac{6}{209}\sqrt{2065}e^6 \otimes e_7$	{1234689, 1257, 347, 5689}
93:20	$0, 0, 0, 0, 0, 0, \frac{2}{3}e^{13} + \frac{1}{3}e^{24}, \frac{2}{3}e^{15} + \frac{1}{3}e^{23}, \frac{2}{3}e^{14} + \frac{1}{3}e^{25}$	$(\frac{1}{3}, \frac{1}{3}, 0, 0, 0, -\frac{2}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_6$	{1345, 1789, 23456789, 26}
93:20	$0, 0, 0, 0, 0, 0, \frac{6}{67}\sqrt{21}e^{13} + \frac{2}{67}\sqrt{238}e^{24}, \frac{2}{67}\sqrt{238}e^{15} + \frac{6}{67}\sqrt{21}e^{23},$ $\frac{6}{67}\sqrt{21}e^{14} + \frac{6}{67}\sqrt{21}e^{25}$	$(-\frac{14}{67}, -\frac{14}{67}, \frac{13}{67}, \frac{13}{67}, \frac{13}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{2}{67}\sqrt{427}e^3 \otimes e_9$	{3678, 378, 4569, 459}
93:20	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{19}e^{13} + \frac{1}{35}\sqrt{85}e^{24}, \frac{2}{35}\sqrt{17}e^{15} + \frac{1}{35}\sqrt{59}e^{23},$ $\frac{2}{35}\sqrt{19}e^{14} + \frac{1}{35}\sqrt{59}e^{25}$	$(-\frac{3}{35}, -\frac{3}{35}, \frac{4}{35}, \frac{4}{35}, \frac{4}{35}, -\frac{6}{35}, \frac{1}{35}, \frac{1}{35}, \frac{1}{35})$ $+ \frac{12}{35}e^3 \otimes e_9 + \frac{1}{35}\sqrt{51}e^1 \otimes e_6$	{3678, 4569}
93:20	$0, 0, 0, 0, 0, 0, \frac{12}{209}\sqrt{210}e^{13} + \frac{2}{209}\sqrt{4830}e^{24},$ $\frac{2}{209}\sqrt{4830}e^{15} + \frac{12}{209}\sqrt{210}e^{23}, \frac{2}{209}\sqrt{1365}e^{14} + \frac{2}{209}\sqrt{1365}e^{25}$	$(-\frac{7}{209}, -\frac{7}{209}, \frac{65}{209}, \frac{65}{209}, \frac{65}{209}, -\frac{145}{209}, \frac{58}{209}, \frac{58}{209}, \frac{58}{209})$ $+ \frac{6}{209}\sqrt{2065}e^3 \otimes e_6$	{1239, 1245678, 378, 4569}
93:21	$0, 0, 0, 0, 0, 0, \frac{8}{71}\sqrt{23}e^{12}, \frac{8}{71}\sqrt{23}e^{34}, \frac{2}{71}\sqrt{69}e^{56}$	$(\frac{16}{71}, -\frac{30}{71}, \frac{32}{71}, -\frac{7}{71}, \frac{6}{71}, \frac{6}{71}, -\frac{14}{71}, \frac{25}{71}, \frac{12}{71})$ $+ \frac{2}{71}\sqrt{897}e^3 \otimes e_7 + \frac{46}{71}e^1 \otimes e_2$	{145678, 145789, 1478, 1567, 1579, 17, 245678, 245789, 2478, 2567, 2579, 27}
93:21	$0, 0, 0, 0, 0, 0, \frac{4}{15}\sqrt{3}e^{12}, \frac{4}{15}\sqrt{3}e^{34}, \frac{4}{15}\sqrt{3}e^{56}$	$(\frac{14}{15}, -\frac{2}{3}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{4}{15}, \frac{4}{15}, \frac{4}{15})$ $+ \frac{5}{3}e^1 \otimes e_2$	{134567, 134579, 1347, 135789, 1378, 17, 234567, 234579, 2347, 235789, 2378, 27}
93:21	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{118}e^{12}, \frac{8}{177}\sqrt{66}e^{34}, \frac{8}{177}\sqrt{66}e^{56}$	$(\frac{40}{177}, \frac{40}{177}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{80}{177}, -\frac{8}{59}, -\frac{8}{59})$ $+ \frac{16}{177}\sqrt{39}e^1 \otimes e_8 + \frac{16}{177}\sqrt{39}e^2 \otimes e_9$	{12, 1234, 123456, 134579, 1579, 3589}
93:21	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{66}e^{12}, \frac{8}{177}\sqrt{118}e^{34}, \frac{8}{177}\sqrt{66}e^{56}$	$(\frac{22}{59}, -\frac{4}{59}, \frac{40}{177}, -\frac{38}{177}, -\frac{4}{59}, -\frac{4}{59}, \frac{18}{59}, \frac{2}{177}, -\frac{8}{59})$ $+ \frac{16}{177}\sqrt{39}e^1 \otimes e_8 + \frac{16}{177}\sqrt{39}e^3 \otimes e_9$	{1234, 123456, 1259, 134567, 1347, 1579, 235678, 2378, 245789, 3568, 38, 4589}
93:21	$0, 0, 0, 0, 0, 0, \frac{8}{209}\sqrt{66}e^{12}, \frac{8}{209}\sqrt{118}e^{34}, \frac{8}{209}\sqrt{66}e^{56}$	$(\frac{20}{209}, -\frac{4}{19}, \frac{40}{209}, -\frac{11}{19}, \frac{6}{19}, -\frac{12}{209}, -\frac{24}{209}, \frac{2}{209}, \frac{54}{209})$ $+ \frac{16}{209}\sqrt{39}e^3 \otimes e_7 + \frac{16}{209}\sqrt{39}e^5 \otimes e_8 + \frac{64}{209}e^1 \otimes e_2$	{146789, 1478, 1567, 1579, 246789, 2478, 2567, 2579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:21	$0, 0, 0, 0, 0, 0, \frac{2}{597}\sqrt{4378}e^{12}, \frac{2}{597}\sqrt{1518}e^{34}, \frac{14}{597}\sqrt{66}e^{56}$	$(\frac{8}{597}, \frac{47}{597}, -\frac{6}{199}, -\frac{6}{199}, \frac{33}{199}, -\frac{32}{199}, \frac{55}{597}, -\frac{12}{199}, \frac{1}{199})$ $+ \frac{2}{597}\sqrt{4290}e^2 \otimes e_9 + \frac{2}{597}\sqrt{4290}e^5 \otimes e_7 + \frac{4}{597}\sqrt{858}e^1 \otimes e_8$	{123456, 1256, 134679, 1679, 2378, 3589}
93:21	$0, 0, 0, 0, 0, 0, \frac{8}{209}\sqrt{118}e^{12}, \frac{8}{209}\sqrt{66}e^{34}, \frac{8}{209}\sqrt{66}e^{56}$	$(\frac{40}{209}, \frac{40}{209}, -\frac{12}{209}, -\frac{12}{209}, \frac{20}{209}, -\frac{4}{19}, \frac{80}{209}, -\frac{24}{209}, -\frac{24}{209})$ $+ \frac{16}{209}\sqrt{39}e^1 \otimes e_8 + \frac{16}{209}\sqrt{39}e^2 \otimes e_9 + \frac{64}{209}e^5 \otimes e_6$	{134579, 134679, 1579, 1679, 3589, 3689}
93:21	$0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{69}e^{12}, \frac{8}{71}\sqrt{23}e^{34}, \frac{8}{71}\sqrt{23}e^{56}$	$(\frac{29}{71}, -\frac{17}{71}, \frac{32}{71}, -\frac{7}{71}, -\frac{7}{71}, -\frac{7}{71}, \frac{12}{71}, \frac{25}{71}, -\frac{14}{71})$ $+ \frac{2}{71}\sqrt{897}e^3 \otimes e_9 + \frac{46}{71}e^1 \otimes e_2$	{134567, 1347, 135678, 1378, 145789, 1579, 234567, 2347, 235678, 2378, 245789, 2579}
93:21	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{290}e^{12}, \frac{2}{87}\sqrt{290}e^{34}, \frac{2}{87}\sqrt{30}e^{56}$	$(\frac{19}{87}, -\frac{20}{87}, \frac{19}{87}, -\frac{20}{87}, \frac{2}{29}, \frac{2}{29}, -\frac{1}{87}, -\frac{1}{87}, \frac{4}{29})$ $+ \frac{2}{87}\sqrt{390}e^1 \otimes e_8 + \frac{2}{87}\sqrt{390}e^3 \otimes e_7$	{1234, 123456, 123459, 1567, 1579, 17, 245678, 245789, 2478}
93:21	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{23}e^{12}, \frac{1}{6}\sqrt{23}e^{34}, \frac{1}{24}\sqrt{69}e^{56}$	$(\frac{2}{3}, -\frac{7}{48}, -\frac{7}{48}, -\frac{7}{48}, \frac{1}{8}, \frac{1}{8}, \frac{25}{48}, -\frac{7}{24}, \frac{1}{4})$ $+ \frac{1}{24}\sqrt{897}e^1 \otimes e_8$	{12, 1234, 123456, 123459, 1256, 1259, 134567, 134579, 1347, 1567, 1579, 17, 235678, 235789, 2378, 3568, 3589, 38}
93:21	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{23}e^{12}, \frac{1}{47}\sqrt{69}e^{34}, \frac{4}{47}\sqrt{23}e^{56}$	$(\frac{8}{47}, -\frac{15}{47}, \frac{29}{94}, -\frac{17}{94}, \frac{16}{47}, -\frac{7}{94}, -\frac{7}{47}, \frac{6}{47}, \frac{25}{94})$ $+ \frac{1}{47}\sqrt{897}e^5 \otimes e_7 + \frac{23}{47}e^1 \otimes e_2 + \frac{23}{47}e^3 \otimes e_4$	{136789, 1378, 146789, 1478, 236789, 2378, 246789, 2478}
93:21	$0, 0, 0, 0, 0, 0, \frac{4}{39}\sqrt{3}e^{12}, \frac{4}{39}\sqrt{3}e^{34}, \frac{4}{39}\sqrt{3}e^{56}$	$(\frac{14}{39}, -\frac{10}{39}, \frac{14}{39}, -\frac{10}{39}, \frac{14}{39}, -\frac{10}{39}, \frac{4}{39}, \frac{4}{39}, \frac{4}{39})$ $+ \frac{8}{13}e^1 \otimes e_2 + \frac{8}{13}e^3 \otimes e_4 + \frac{8}{13}e^5 \otimes e_6$	{135789, 136789, 146789, 246789}
93:21	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{30}e^{12}, \frac{2}{43}\sqrt{30}e^{34}, \frac{2}{43}\sqrt{30}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^1 \otimes e_8 + \frac{2}{43}\sqrt{39}e^3 \otimes e_9 + \frac{2}{43}\sqrt{39}e^5 \otimes e_7$	{123456, 1259, 1679, 246789}
93:21	$0, 0, 0, 0, 0, 0, \frac{2}{97}\sqrt{30}e^{12}, \frac{2}{97}\sqrt{290}e^{34}, \frac{2}{97}\sqrt{290}e^{56}$	$(\frac{16}{97}, -\frac{4}{97}, \frac{19}{97}, -\frac{20}{97}, \frac{19}{97}, -\frac{20}{97}, \frac{12}{97}, -\frac{1}{97}, -\frac{1}{97})$ $+ \frac{20}{97}e^1 \otimes e_2 + \frac{2}{97}\sqrt{390}e^3 \otimes e_9 + \frac{2}{97}\sqrt{390}e^5 \otimes e_8$	{134567, 1378, 146789, 234567, 2378, 246789}
93:21	$0, 0, 0, 0, 0, 0, \frac{4}{27}\sqrt{3}e^{12}, \frac{4}{27}\sqrt{3}e^{34}, \frac{4}{27}\sqrt{3}e^{56}$	$(\frac{14}{27}, -\frac{10}{27}, \frac{14}{27}, -\frac{10}{27}, \frac{2}{27}, \frac{2}{27}, \frac{4}{27}, \frac{4}{27}, \frac{4}{27})$ $+ \frac{8}{9}e^1 \otimes e_2 + \frac{8}{9}e^3 \otimes e_4$	{135678, 135789, 1378, 145678, 145789, 1478, 245678, 245789, 2478}
93:22	$0, 0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13}e^{12}, \frac{2}{29}\sqrt{39}e^{13}, \frac{2}{29}\sqrt{65}e^{14} + \frac{4}{29}\sqrt{26}e^{56}$	$(-\frac{6}{29}, \frac{20}{29}, \frac{8}{29}, 0, -\frac{3}{29}, -\frac{3}{29}, \frac{14}{29}, \frac{2}{29}, -\frac{6}{29})$ $+ \frac{4}{29}\sqrt{78}e^2 \otimes e_9$	{1234568, 12348, 124, 12456, 135789, 1579, 23567, 237, 25678, 278, 3459, 4589}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{229}\sqrt{10185}e^{12}, \frac{5}{229}\sqrt{97}e^{13}, \frac{1}{229}\sqrt{2037}e^{14} + \frac{1}{229}\sqrt{582}e^{56}$	$(\frac{24}{229}, \frac{48}{229}, -\frac{73}{229}, \frac{9}{229}, \frac{65}{229}, -\frac{32}{229}, \frac{72}{229}, -\frac{49}{229}, \frac{33}{229})$ $+ \frac{4}{229}\sqrt{970}e^1 \otimes e_3 + \frac{97}{229}e^5 \otimes e_6 + \frac{9}{229}\sqrt{194}e^2 \otimes e_8$	{15789, 16789, 34589, 34689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{10703}e^{12}, \frac{11}{383}\sqrt{105}e^{13}, \frac{1}{383}\sqrt{6006}e^{14} + \frac{1}{383}\sqrt{15785}e^{56}$	$(\frac{34}{383}, \frac{68}{383}, -\frac{50}{383}, -\frac{43}{383}, \frac{61}{383}, -\frac{70}{383}, \frac{102}{383}, -\frac{16}{383}, -\frac{9}{383})$ $+ \frac{1}{383}\sqrt{17633}e^1 \otimes e_4 + \frac{1}{383}\sqrt{20174}e^5 \otimes e_8 + \frac{7}{383}\sqrt{330}e^2 \otimes e_9$	{12356, 128, 23478, 24567}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{10185}e^{12}, \frac{10}{361}\sqrt{97}e^{13}, \frac{2}{361}\sqrt{2037}e^{14} + \frac{2}{361}\sqrt{582}e^{56}$	$(-\frac{112}{361}, \frac{96}{361}, \frac{14}{361}, \frac{178}{361}, \frac{33}{361}, \frac{33}{361}, -\frac{16}{361}, -\frac{98}{361}, \frac{66}{361})$ $+ \frac{18}{361}\sqrt{194}e^2 \otimes e_8 + \frac{8}{361}\sqrt{970}e^4 \otimes e_7$	{1234, 123456, 15789, 2567, 27, 34589}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{1101}\sqrt{4465}e^{12}, \frac{2}{1101}\sqrt{9682}e^{13}, \frac{14}{1101}\sqrt{235}e^{14} + \frac{2}{1101}\sqrt{10434}e^{56}$	$(\frac{24}{367}, \frac{11}{367}, -\frac{133}{1101}, -\frac{22}{1101}, \frac{199}{1101}, -\frac{149}{1101}, \frac{35}{367}, -\frac{61}{1101}, \frac{50}{1101})$ $+ \frac{4}{1101}\sqrt{3995}e^1 \otimes e_4 + \frac{2}{1101}\sqrt{3995}e^2 \otimes e_8 + \frac{4}{1101}\sqrt{4089}e^5 \otimes e_7$	{12356, 178, 247, 34568}
93:22	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{6}{17}\sqrt{3}e^{14} + \frac{6}{17}\sqrt{2}e^{56}$	$(\frac{10}{17}, -\frac{2}{17}, -\frac{2}{17}, -\frac{8}{17}, \frac{1}{17}, \frac{1}{17}, \frac{8}{17}, \frac{8}{17}, \frac{2}{17})$ $+ \frac{6}{17}\sqrt{14}e^1 \otimes e_4$	{123, 12356, 12568, 128, 15678, 178, 2345678, 23478, 24567, 247, 4, 456}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{361}\sqrt{10185}e^{12}, \frac{10}{361}\sqrt{97}e^{13}, \frac{2}{361}\sqrt{2037}e^{14} + \frac{2}{361}\sqrt{582}e^{56}$	$(\frac{48}{361}, \frac{96}{361}, -\frac{146}{361}, \frac{18}{361}, \frac{33}{361}, \frac{33}{361}, \frac{144}{361}, -\frac{98}{361}, \frac{66}{361})$ $+ \frac{18}{361}\sqrt{194}e^2 \otimes e_8 + \frac{8}{361}\sqrt{970}e^1 \otimes e_3$	{145678, 1478, 15789, 34589, 3568, 38}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{13}e^{12}, \frac{1}{21}\sqrt{39}e^{13}, \frac{1}{21}\sqrt{65}e^{14} + \frac{2}{21}\sqrt{26}e^{56}$	$(-\frac{1}{7}, \frac{10}{21}, \frac{4}{21}, 0, \frac{5}{21}, -\frac{8}{21}, \frac{1}{3}, \frac{1}{21}, -\frac{1}{7})$ $+\frac{13}{21}e^5 \otimes e_6 + \frac{2}{21}\sqrt{78}e^2 \otimes e_9$	{135789, 136789, 1579, 1679, 3459, 3469, 4589, 4689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2278}e^{12}, \frac{17}{64}e^{13}, \frac{1}{128}\sqrt{1870}e^{14} + \frac{1}{32}\sqrt{51}e^{56}$	$(\frac{27}{256}, \frac{15}{64}, -\frac{41}{256}, -\frac{35}{256}, \frac{15}{128}, -\frac{19}{128}, \frac{87}{256}, -\frac{7}{128}, -\frac{1}{32})$ $+\frac{17}{64}e^5 \otimes e_6 + \frac{1}{128}\sqrt{3230}e^1 \otimes e_3 + \frac{1}{128}\sqrt{3638}e^2 \otimes e_9$	{1579, 1679, 3459, 3469}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{539}\sqrt{12815}e^{12}, \frac{2}{539}\sqrt{1398}e^{13}, \frac{2}{539}\sqrt{26795}e^{14} + \frac{2}{539}\sqrt{50794}e^{56}$	$(-\frac{12}{539}, -\frac{19}{77}, \frac{93}{539}, \frac{202}{539}, \frac{321}{539}, -\frac{131}{539}, -\frac{145}{539}, \frac{81}{539}, \frac{190}{539})$ $+\frac{4}{539}\sqrt{26329}e^5 \otimes e_7$	{1234589, 123568, 12459, 1256, 1346789, 1378, 14679, 17, 2347, 23679, 2478, 26789, 3456, 359, 4568, 589}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{2337}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{113}\sqrt{41}e^{14} + \frac{6}{113}\sqrt{41}e^{56}$	$(\frac{13}{113}, \frac{26}{113}, \frac{4}{113}, -\frac{28}{113}, \frac{13}{113}, -\frac{28}{113}, \frac{39}{113}, \frac{17}{113}, -\frac{15}{113})$ $+\frac{2}{113}\sqrt{779}e^1 \otimes e_4 + \frac{2}{113}\sqrt{902}e^2 \otimes e_9 - \frac{41}{113}e^5 \otimes e_6$	{13579, 13679, 15789, 16789, 34589, 34689, 459, 469}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{533}e^{12}, \frac{1}{113}\sqrt{2337}e^{13}, \frac{1}{113}\sqrt{41}e^{14} + \frac{6}{113}\sqrt{41}e^{56}$	$(-\frac{25}{113}, \frac{42}{113}, \frac{26}{113}, \frac{10}{113}, \frac{13}{113}, -\frac{28}{113}, \frac{17}{113}, \frac{1}{113}, -\frac{15}{113})$ $+\frac{2}{113}\sqrt{779}e^2 \otimes e_8 + \frac{2}{113}\sqrt{902}e^3 \otimes e_9 + \frac{41}{113}e^5 \otimes e_6$	{15789, 16789, 24579, 24679}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2278}e^{12}, \frac{17}{64}e^{13}, \frac{1}{128}\sqrt{1870}e^{14} + \frac{1}{32}\sqrt{51}e^{56}$	$(-\frac{17}{64}, \frac{15}{64}, \frac{27}{128}, \frac{15}{64}, \frac{15}{128}, -\frac{19}{128}, -\frac{1}{32}, -\frac{7}{128}, -\frac{1}{32})$ $+\frac{17}{64}e^5 \otimes e_6 + \frac{1}{128}\sqrt{3230}e^4 \otimes e_7 + \frac{1}{128}\sqrt{3638}e^2 \otimes e_9$	{135789, 136789, 1579, 1679, 3459, 3469, 4589, 4689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2278}e^{12}, \frac{17}{64}e^{13}, \frac{1}{128}\sqrt{1870}e^{14} + \frac{1}{32}\sqrt{51}e^{56}$	$(-\frac{17}{64}, \frac{15}{64}, \frac{27}{128}, \frac{15}{64}, \frac{15}{128}, -\frac{19}{128}, -\frac{1}{32}, -\frac{7}{128}, -\frac{1}{32})$ $+\frac{17}{64}e^5 \otimes e_6 - \frac{1}{128}\sqrt{3230}e^4 \otimes e_7 + \frac{1}{128}\sqrt{3638}e^2 \otimes e_9$	{135789, 136789, 1579, 1679, 3459, 3469, 4589, 4689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{703}e^{12}, \frac{1}{71}\sqrt{703}e^{13}, \frac{5}{71}\sqrt{19}e^{14} + \frac{2}{71}\sqrt{57}e^{56}$	$(-\frac{19}{71}, \frac{15}{71}, \frac{15}{71}, \frac{18}{71}, \frac{9}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71})$ $+\frac{19}{71}e^5 \otimes e_6 + \frac{2}{71}\sqrt{266}e^2 \otimes e_8 - \frac{2}{71}\sqrt{266}e^3 \otimes e_7$	{123459, 123469, 145789, 146789, 2579, 2679}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{703}e^{12}, \frac{1}{71}\sqrt{703}e^{13}, \frac{5}{71}\sqrt{19}e^{14} + \frac{2}{71}\sqrt{57}e^{56}$	$(-\frac{19}{71}, \frac{15}{71}, \frac{15}{71}, \frac{18}{71}, \frac{9}{71}, -\frac{10}{71}, -\frac{4}{71}, -\frac{4}{71}, -\frac{1}{71})$ $+\frac{19}{71}e^5 \otimes e_6 + \frac{2}{71}\sqrt{266}e^2 \otimes e_8 + \frac{2}{71}\sqrt{266}e^3 \otimes e_7$	{123459, 123469, 145789, 146789, 2579, 2679}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{3241}\sqrt{123395}e^{12}, \frac{2}{3241}\sqrt{26535}e^{13}, \frac{2}{3241}\sqrt{47270}e^{14} + \frac{58}{3241}\sqrt{205}e^{56}$	$(-\frac{465}{3241}, \frac{394}{3241}, \frac{60}{3241}, \frac{569}{3241}, \frac{219}{3241}, -\frac{115}{3241}, -\frac{71}{3241}, -\frac{405}{3241}, \frac{104}{3241})$ $+\frac{10}{3241}\sqrt{6757}e^5 \otimes e_7 + \frac{2}{3241}\sqrt{120495}e^6 \otimes e_8 + \frac{2}{3241}\sqrt{145290}e^2 \otimes e_9$	{12356, 134679, 23478, 3589}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{2}{41}\sqrt{35}e^{13}, \frac{6}{41}\sqrt{7}e^{14} + \frac{2}{41}\sqrt{77}e^{56}$	$(\frac{10}{41}, -\frac{11}{41}, -\frac{1}{41}, -\frac{4}{41}, \frac{13}{41}, -\frac{7}{41}, -\frac{1}{41}, \frac{9}{41}, \frac{6}{41})$ $+\frac{2}{41}\sqrt{119}e^1 \otimes e_4 + \frac{4}{41}\sqrt{35}e^5 \otimes e_7$	{12356, 12568, 137, 178, 23478, 247, 34568, 456}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{2337}e^{12}, \frac{1}{113}\sqrt{533}e^{13}, \frac{1}{113}\sqrt{41}e^{14} + \frac{6}{113}\sqrt{41}e^{56}$	$(\frac{13}{113}, \frac{26}{113}, \frac{4}{113}, -\frac{28}{113}, \frac{13}{113}, -\frac{28}{113}, \frac{39}{113}, \frac{17}{113}, -\frac{15}{113})$ $+\frac{2}{113}\sqrt{779}e^1 \otimes e_4 + \frac{2}{113}\sqrt{902}e^2 \otimes e_9 + \frac{41}{113}e^5 \otimes e_6$	{13579, 13679, 15789, 16789, 34589, 34689, 459, 469}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{413}\sqrt{10855}e^{12}, \frac{1}{413}\sqrt{6513}e^{13}, \frac{1}{413}\sqrt{26553}e^{14} + \frac{1}{413}\sqrt{13026}e^{56}$	$(-\frac{94}{413}, \frac{164}{413}, \frac{18}{413}, \frac{13}{413}, \frac{82}{413}, -\frac{85}{413}, \frac{10}{413}, -\frac{76}{413}, -\frac{3}{413})$ $+\frac{167}{413}e^5 \otimes e_6 + \frac{1}{413}\sqrt{44422}e^4 \otimes e_8 + \frac{1}{413}\sqrt{53106}e^2 \otimes e_9$	{15789, 16789, 459, 469}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{2278}e^{12}, \frac{34}{111}e^{13}, \frac{1}{111}\sqrt{1870}e^{14} + \frac{4}{111}\sqrt{51}e^{56}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{9}{37}, \frac{10}{37}, -\frac{2}{111}, -\frac{2}{111}, -\frac{4}{111}, \frac{7}{111}, -\frac{4}{111})$ $+\frac{1}{111}\sqrt{3230}e^4 \otimes e_7 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_9$	{1234568, 12348, 124, 12456, 135789, 1579, 23567, 237, 25678, 278, 3459, 4589}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{2278}e^{12}, \frac{34}{111}e^{13}, \frac{1}{111}\sqrt{1870}e^{14} + \frac{4}{111}\sqrt{51}e^{56}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{9}{37}, \frac{10}{37}, -\frac{2}{111}, -\frac{2}{111}, -\frac{4}{111}, -\frac{7}{111}, -\frac{4}{111})$ $-\frac{1}{111}\sqrt{3230}e^4 \otimes e_7 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_9$	{1234568, 12348, 124, 12456, 135789, 1579, 23567, 237, 25678, 278, 3459, 4589}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{12}, \frac{2}{185}\sqrt{533}e^{13}, \frac{2}{185}\sqrt{41}e^{14} + \frac{12}{185}\sqrt{41}e^{56}$	$(\frac{26}{185}, \frac{52}{185}, \frac{8}{185}, -\frac{56}{185}, -\frac{3}{37}, -\frac{3}{37}, \frac{78}{185}, \frac{34}{185}, -\frac{6}{37})$ $+\frac{4}{185}\sqrt{779}e^1 \otimes e_4 + \frac{4}{185}\sqrt{902}e^2 \otimes e_9$	{13579, 15789, 34589, 459}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{12}, \frac{21}{139}\sqrt{5}e^{13}, \frac{1}{139}\sqrt{1295}e^{14} + \frac{1}{139}\sqrt{3115}e^{56}$	$(\frac{15}{278}, -\frac{55}{278}, -\frac{39}{278}, \frac{61}{278}, \frac{15}{139}, \frac{23}{139}, -\frac{20}{139}, -\frac{12}{139}, \frac{38}{139})$ $+\frac{1}{139}\sqrt{3885}e^6 \otimes e_8 + \frac{4}{139}\sqrt{105}e^1 \otimes e_2 + \frac{5}{139}\sqrt{133}e^5 \otimes e_7$	{134679, 178, 23478, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{703}e^{12}, \frac{2}{123}\sqrt{703}e^{13}, \frac{10}{123}\sqrt{19}e^{14} + \frac{4}{123}\sqrt{57}e^{56}$	$(\frac{6}{41}, \frac{10}{41}, -\frac{26}{123}, -\frac{20}{123}, -\frac{1}{123}, -\frac{1}{123}, \frac{16}{41}, -\frac{8}{123}, -\frac{2}{123})$ $+ \frac{4}{123}\sqrt{266}e^1 \otimes e_4 + \frac{4}{123}\sqrt{266}e^2 \otimes e_8$	{123, 12356, 15678, 178, 24567, 247, 34568, 348}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{70}e^{12}, \frac{2}{77}\sqrt{70}e^{13}, \frac{12}{77}\sqrt{2}e^{14} + \frac{2}{11}\sqrt{2}e^{56}$	$(\frac{10}{77}, -\frac{12}{77}, -\frac{12}{77}, \frac{2}{77}, \frac{6}{77}, \frac{6}{77}, -\frac{2}{77}, -\frac{2}{77}, \frac{12}{77})$ $+ \frac{20}{77}e^5 \otimes e_7 + \frac{20}{77}e^6 \otimes e_8 + \frac{2}{77}\sqrt{86}e^1 \otimes e_4$	{12356, 178, 23478, 456}
93:22	$0, 0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{12}, \frac{2}{527}\sqrt{20951}e^{13}, \frac{2}{527}\sqrt{45633}e^{14} + \frac{4}{527}\sqrt{1722}e^{56}$	$(-\frac{146}{527}, -\frac{60}{527}, \frac{160}{527}, \frac{368}{527}, \frac{111}{527}, \frac{111}{527}, -\frac{206}{527}, \frac{14}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^4 \otimes e_7$	{123458, 1245, 1356789, 13789, 15679, 179, 2357, 2578, 34569, 349, 45689, 489}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{10855}e^{12}, \frac{2}{659}\sqrt{6513}e^{13}, \frac{2}{659}\sqrt{26553}e^{14} + \frac{2}{659}\sqrt{13026}e^{56}$	$(-\frac{188}{659}, \frac{328}{659}, \frac{36}{659}, \frac{182}{659}, -\frac{3}{659}, -\frac{3}{659}, \frac{140}{659}, -\frac{152}{659}, -\frac{6}{659})$ $+ \frac{2}{659}\sqrt{44422}e^4 \otimes e_8 + \frac{2}{659}\sqrt{53106}e^2 \otimes e_9$	{1234, 123456, 15789, 235678, 2378, 459}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{703}e^{12}, \frac{2}{123}\sqrt{703}e^{13}, \frac{10}{123}\sqrt{19}e^{14} + \frac{4}{123}\sqrt{57}e^{56}$	$(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, \frac{12}{41}, -\frac{1}{123}, -\frac{1}{123}, -\frac{8}{123}, -\frac{8}{123}, -\frac{2}{123})$ $+ \frac{4}{123}\sqrt{266}e^2 \otimes e_8 + \frac{4}{123}\sqrt{266}e^3 \otimes e_7$	{123, 123459, 12356, 145789, 15678, 178, 24567, 247, 2579}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{123}\sqrt{703}e^{12}, \frac{2}{123}\sqrt{703}e^{13}, \frac{10}{123}\sqrt{19}e^{14} + \frac{4}{123}\sqrt{57}e^{56}$	$(-\frac{38}{123}, \frac{10}{41}, \frac{10}{41}, \frac{12}{41}, -\frac{1}{123}, -\frac{1}{123}, \frac{8}{123}, -\frac{8}{123}, -\frac{2}{123})$ $+ \frac{4}{123}\sqrt{266}e^2 \otimes e_8 - \frac{4}{123}\sqrt{266}e^3 \otimes e_7$	{123, 123459, 12356, 145789, 15678, 178, 24567, 247, 2579}
93:22	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{210}e^{13}, \frac{1}{139}\sqrt{1295}e^{14} + \frac{2}{139}\sqrt{455}e^{56}$	$(-\frac{35}{139}, \frac{36}{139}, \frac{15}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{14}{139}, \frac{1}{139}, -\frac{20}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_9 + \frac{5}{139}\sqrt{119}e^4 \otimes e_7$	{12348, 12456, 136789, 1579, 23567, 278, 3459, 4689}
93:22	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{210}e^{13}, \frac{1}{139}\sqrt{1295}e^{14} + \frac{2}{139}\sqrt{455}e^{56}$	$(-\frac{35}{139}, \frac{36}{139}, \frac{15}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{14}{139}, \frac{1}{139}, -\frac{20}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_9 - \frac{5}{139}\sqrt{119}e^4 \otimes e_7$	{12348, 12456, 136789, 1579, 23567, 278, 3459, 4689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{255}e^{12}, \frac{9}{55}\sqrt{5}e^{13}, \frac{1}{55}\sqrt{465}e^{14} + \frac{2}{55}\sqrt{30}e^{56}$	$(\frac{1}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{3}{11}, 0, -\frac{1}{11}, -\frac{1}{11}, \frac{3}{11})$ $+ \frac{2}{55}\sqrt{165}e^1 \otimes e_2 + \frac{2}{55}\sqrt{165}e^4 \otimes e_8 + \frac{3}{11}e^5 \otimes e_6$	{1345, 1346, 2358, 2368}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{527}\sqrt{20951}e^{12}, \frac{14}{527}\sqrt{861}e^{13}, \frac{2}{527}\sqrt{45633}e^{14} + \frac{4}{527}\sqrt{1722}e^{56}$	$(\frac{294}{527}, -\frac{280}{527}, -\frac{60}{527}, -\frac{72}{527}, \frac{111}{527}, \frac{111}{527}, \frac{14}{527}, \frac{234}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^1 \otimes e_2$	{1345, 13569, 139, 1458, 15689, 189, 2345689, 23489, 2358, 24569, 249, 25}
93:22	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{12}, \frac{6}{17}\sqrt{5}e^{13}, \frac{6}{17}\sqrt{3}e^{14} + \frac{6}{17}\sqrt{2}e^{56}$	$(-\frac{4}{17}, \frac{12}{17}, -\frac{2}{17}, \frac{6}{17}, \frac{1}{17}, \frac{1}{17}, \frac{8}{17}, -\frac{6}{17}, \frac{2}{17})$ $+ \frac{6}{17}\sqrt{14}e^2 \otimes e_8$	{123, 123459, 12356, 145789, 15678, 178, 24567, 247, 2579, 34568, 348, 3589}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{229}\sqrt{10185}e^{12}, \frac{5}{229}\sqrt{97}e^{13}, \frac{1}{229}\sqrt{2037}e^{14} + \frac{1}{229}\sqrt{582}e^{56}$	$(-\frac{56}{229}, \frac{48}{229}, \frac{7}{229}, \frac{89}{229}, \frac{65}{229}, -\frac{32}{229}, -\frac{8}{229}, -\frac{49}{229}, \frac{33}{229})$ $+ \frac{4}{229}\sqrt{970}e^4 \otimes e_7 + \frac{97}{229}e^5 \otimes e_6 + \frac{9}{229}\sqrt{194}e^2 \otimes e_8$	{15789, 16789, 34589, 34689}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{61}\sqrt{14}e^{12}, \frac{4}{61}\sqrt{14}e^{13}, \frac{4}{61}\sqrt{78}e^{14} + \frac{12}{61}\sqrt{2}e^{56}$	$(\frac{7}{61}, -\frac{25}{61}, \frac{5}{122}, \frac{14}{61}, \frac{21}{122}, \frac{21}{122}, -\frac{18}{61}, \frac{19}{122}, \frac{21}{61})$ $+ \frac{4}{61}\sqrt{110}e^1 \otimes e_2 + \frac{4}{61}\sqrt{110}e^4 \otimes e_7$	{135679, 1379, 156789, 1789, 23578, 257}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{95}\sqrt{255}e^{12}, \frac{18}{95}\sqrt{5}e^{13}, \frac{2}{95}\sqrt{465}e^{14} + \frac{4}{95}\sqrt{30}e^{56}$	$(\frac{2}{19}, -\frac{4}{19}, -\frac{4}{19}, \frac{4}{19}, \frac{3}{19}, \frac{3}{19}, -\frac{2}{19}, -\frac{2}{19}, \frac{6}{19})$ $+ \frac{4}{95}\sqrt{165}e^1 \otimes e_2 + \frac{4}{95}\sqrt{165}e^4 \otimes e_8$	{1345, 15689, 189, 2358, 24569, 249}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{22}e^{12}, \frac{1}{16}\sqrt{42}e^{13}, \frac{1}{16}\sqrt{46}e^{14} + \frac{1}{8}\sqrt{2}e^{56}$	$(\frac{3}{32}, -\frac{7}{32}, -\frac{3}{16}, \frac{7}{32}, \frac{3}{16}, \frac{1}{8}, -\frac{1}{8}, -\frac{3}{32}, \frac{5}{16})$ $+ \frac{1}{16}\sqrt{10}e^5 \otimes e_7 + \frac{1}{16}\sqrt{69}e^1 \otimes e_2 + \frac{1}{16}\sqrt{69}e^4 \otimes e_8$	{1345, 15689, 2358, 24569}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{77}\sqrt{14}e^{12}, \frac{4}{77}\sqrt{14}e^{13}, \frac{4}{77}\sqrt{78}e^{14} + \frac{12}{77}\sqrt{2}e^{56}$	$(\frac{1}{11}, -\frac{25}{77}, \frac{5}{154}, \frac{2}{11}, \frac{53}{154}, -\frac{1}{14}, -\frac{18}{77}, \frac{19}{154}, \frac{3}{11})$ $+ \frac{32}{77}e^5 \otimes e_6 + \frac{4}{77}\sqrt{110}e^1 \otimes e_2 + \frac{4}{77}\sqrt{110}e^4 \otimes e_7$	{23578, 23678, 257, 267}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{407}\sqrt{20951}e^{12}, \frac{7}{407}\sqrt{861}e^{13}, \frac{1}{407}\sqrt{45633}e^{14} + \frac{2}{407}\sqrt{1722}e^{56}$	$(\frac{147}{407}, -\frac{140}{407}, -\frac{30}{407}, -\frac{36}{407}, \frac{199}{407}, -\frac{8}{37}, \frac{7}{407}, \frac{117}{407}, \frac{3}{11})$ $+ \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570}e^1 \otimes e_2$	{1345, 1346, 1458, 1468, 2358, 2368, 25, 26}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:22	$0, 0, 0, 0, 0, 0, \frac{7}{125}\sqrt{37}e^{12}, \frac{7}{125}\sqrt{37}e^{13}, \frac{1}{125}\sqrt{2183}e^{14} + \frac{1}{125}\sqrt{3811}e^{56}$	$(-\frac{3}{50}, -\frac{1}{10}, -\frac{1}{10}, \frac{83}{250}, \frac{17}{125}, \frac{17}{125}, -\frac{4}{25}, -\frac{4}{25}, \frac{34}{125})$ $+ \frac{1}{125}\sqrt{4181}e^5 \otimes e_7 + \frac{1}{125}\sqrt{4181}e^6 \otimes e_8$	{12356, 124589, 178, 23478, 2679, 456}
93:22	$0, 0, 0, 0, 0, 0, \frac{7}{407}\sqrt{861}e^{12}, \frac{1}{407}\sqrt{20951}e^{13},$ $\frac{1}{407}\sqrt{45633}e^{14} + \frac{2}{407}\sqrt{1722}e^{56}$	$(-\frac{73}{407}, -\frac{30}{407}, \frac{80}{407}, \frac{184}{407}, \frac{199}{407}, -\frac{8}{37}, -\frac{103}{407}, \frac{7}{407}, \frac{3}{11})$ $+ \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570}e^4 \otimes e_7$	{123458, 123468, 1245, 1246, 2357, 2367, 2578, 2678}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{533}e^{12}, \frac{2}{185}\sqrt{2337}e^{13}, \frac{2}{185}\sqrt{41}e^{14} + \frac{12}{185}\sqrt{41}e^{56}$	$(-\frac{10}{37}, \frac{84}{185}, \frac{52}{185}, \frac{4}{37}, -\frac{3}{37}, -\frac{3}{37}, \frac{34}{185}, \frac{2}{185}, -\frac{6}{37})$ $+ \frac{4}{185}\sqrt{779}e^2 \otimes e_8 + \frac{4}{185}\sqrt{902}e^3 \otimes e_9$	{1234, 123456, 15789, 24579, 3568, 38}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{291}e^{12}, \frac{1}{25}\sqrt{97}e^{13}, \frac{3}{275}\sqrt{679}e^{14} + \frac{1}{275}\sqrt{5529}e^{56}$	$(\frac{28}{275}, -\frac{69}{275}, -\frac{73}{550}, \frac{56}{275}, \frac{177}{550}, -\frac{9}{550}, -\frac{41}{275}, -\frac{17}{550}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{12319}e^4 \otimes e_7 + \frac{1}{275}\sqrt{18042}e^5 \otimes e_8 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_2$	{13456, 148, 234689, 2459}
93:22	$0, 0, 0, 0, 0, 0, \frac{22}{3269}\sqrt{3405}e^{12}, \frac{110}{3269}\sqrt{15}e^{13},$ $\frac{66}{3269}\sqrt{87}e^{14} + \frac{66}{3269}\sqrt{193}e^{56}$	$(\frac{57}{3269}, \frac{114}{3269}, -\frac{669}{3269}, \frac{517}{3269}, \frac{897}{3269}, -\frac{323}{3269}, \frac{171}{3269}, -\frac{612}{3269}, \frac{82}{467})$ $+ \frac{440}{3269}\sqrt{6}e^1 \otimes e_3 + \frac{44}{3269}\sqrt{915}e^5 \otimes e_7 + \frac{66}{3269}\sqrt{331}e^2 \otimes e_8$	{146789, 178, 34568, 3589}
93:22	$0, 0, 0, 0, 0, 0, \frac{6}{95}\sqrt{17}e^{12}, \frac{3}{95}\sqrt{2}e^{13}, \frac{12}{95}e^{14} + \frac{9}{95}\sqrt{6}e^{56}$	$(\frac{2}{95}, \frac{4}{95}, \frac{6}{95}, -\frac{7}{95}, \frac{3}{19}, -\frac{4}{95}, \frac{6}{95}, \frac{8}{95}, -\frac{19}{95})$ $+ \frac{3}{95}\sqrt{62}e^2 \otimes e_9 + \frac{3}{95}\sqrt{70}e^5 \otimes e_7 + \frac{6}{95}\sqrt{11}e^1 \otimes e_4$	{12356, 12568, 23478, 247}
93:22	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{5}e^{13}, \frac{3}{13}\sqrt{3}e^{14} + \frac{3}{13}\sqrt{2}e^{56}$	$(-\frac{2}{13}, \frac{6}{13}, -\frac{1}{13}, \frac{3}{13}, \frac{5}{13}, -\frac{4}{13}, \frac{4}{13}, -\frac{3}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{14}e^2 \otimes e_8 + \frac{9}{13}e^5 \otimes e_6$	{123459, 123469, 145789, 146789, 2579, 2679, 3589, 3689}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{12}, \frac{1}{33}\sqrt{159}e^{13}, \frac{1}{33}\sqrt{53}e^{14} + \frac{2}{33}\sqrt{53}e^{56}$	$(\frac{1}{11}, \frac{5}{33}, \frac{5}{33}, \frac{2}{11}, \frac{31}{33}, -\frac{2}{3}, \frac{8}{33}, \frac{8}{33}, \frac{3}{11})$ $+ \frac{53}{33}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 15789, 16789, 2345789, 2346789, 24579, 24679, 459, 469}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{105}e^{12}, \frac{2}{41}\sqrt{35}e^{13}, \frac{6}{41}\sqrt{7}e^{14} + \frac{2}{41}\sqrt{77}e^{56}$	$(-\frac{7}{41}, \frac{6}{41}, -\frac{1}{41}, \frac{13}{41}, \frac{13}{41}, -\frac{7}{41}, -\frac{1}{41}, -\frac{8}{41}, \frac{6}{41})$ $+ \frac{2}{41}\sqrt{119}e^2 \otimes e_8 + \frac{4}{41}\sqrt{35}e^5 \otimes e_7$	{123459, 12356, 146789, 178, 247, 2679, 34568, 3589}
93:22	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{2278}e^{12}, \frac{34}{111}e^{13}, \frac{1}{111}\sqrt{1870}e^{14} + \frac{4}{111}\sqrt{51}e^{56}$	$(\frac{9}{74}, \frac{10}{37}, -\frac{41}{222}, -\frac{35}{222}, -\frac{2}{111}, -\frac{2}{111}, \frac{29}{74}, -\frac{7}{111}, -\frac{4}{111})$ $+ \frac{1}{111}\sqrt{3230}e^1 \otimes e_3 + \frac{1}{111}\sqrt{3638}e^2 \otimes e_9$	{124, 12456, 1579, 23567, 237, 3459}
93:22	$0, 0, 0, 0, 0, 0, \frac{16}{1411}\sqrt{615}e^{12}, \frac{2}{1411}\sqrt{155595}e^{13},$ $\frac{3}{1411}\sqrt{2870}e^{14} + \frac{3}{1411}\sqrt{37310}e^{56}$	$(\frac{315}{1411}, -\frac{300}{1411}, -\frac{363}{1411}, \frac{122}{1411}, \frac{567}{1411}, -\frac{130}{1411}, \frac{15}{1411}, -\frac{48}{1411}, \frac{437}{1411})$ $+ \frac{1}{1411}\sqrt{702330}e^1 \otimes e_2 + \frac{41}{1411}\sqrt{510}e^5 \otimes e_8$	{13456, 1359, 148, 1689, 234689, 238, 2459, 256}
93:22	$0, 0, 0, 0, 0, 0, \frac{11}{383}\sqrt{105}e^{12}, \frac{1}{383}\sqrt{10703}e^{13},$ $\frac{1}{383}\sqrt{6006}e^{14} + \frac{1}{383}\sqrt{15785}e^{56}$	$(-\frac{161}{766}, \frac{129}{766}, \frac{68}{383}, \frac{143}{766}, \frac{61}{383}, -\frac{70}{383}, -\frac{16}{383}, -\frac{25}{766}, -\frac{9}{383})$ $+ \frac{1}{383}\sqrt{17633}e^2 \otimes e_8 + \frac{1}{383}\sqrt{20174}e^5 \otimes e_7 + \frac{7}{383}\sqrt{330}e^3 \otimes e_9$	{12356, 146789, 2679, 34568}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{1299}\sqrt{12305}e^{12}, \frac{1}{1299}\sqrt{210790}e^{13},$ $\frac{1}{1299}\sqrt{41730}e^{14} + \frac{2}{1299}\sqrt{119305}e^{56}$	$(-\frac{65}{433}, \frac{526}{1299}, -\frac{50}{1299}, \frac{62}{433}, \frac{290}{1299}, -\frac{299}{1299}, \frac{331}{1299}, -\frac{245}{1299}, -\frac{3}{433})$ $+ \frac{1}{1299}\sqrt{602410}e^2 \otimes e_9 + \frac{1}{1299}\sqrt{630230}e^5 \otimes e_8$	{12356, 128, 134579, 146789, 23478, 24567, 3689, 59}
93:22	$0, 0, 0, 0, 0, 0, \frac{2}{3921}\sqrt{198070}e^{12}, \frac{2}{3921}\sqrt{67135}e^{13},$ $\frac{2}{3921}\sqrt{41470}e^{14} + \frac{4}{3921}\sqrt{32190}e^{56}$	$(\frac{15}{1307}, \frac{104}{1307}, -\frac{245}{3921}, -\frac{23}{3921}, \frac{647}{3921}, -\frac{625}{3921}, \frac{119}{1307}, -\frac{200}{3921}, \frac{22}{3921})$ $+ \frac{10}{3921}\sqrt{8207}e^2 \otimes e_9 + \frac{2}{3921}\sqrt{140795}e^1 \otimes e_3 + \frac{4}{3921}\sqrt{46110}e^5 \otimes e_7$	{12456, 1679, 237, 3459}
93:22	$0, 0, 0, 0, 0, 0, \frac{4}{1765}\sqrt{30422}e^{12}, \frac{7}{1765}\sqrt{2226}e^{13},$ $\frac{28}{1765}\sqrt{53}e^{14} + \frac{1}{1765}\sqrt{450394}e^{56}$	$(-\frac{294}{1765}, \frac{292}{1765}, \frac{306}{1765}, \frac{43}{1765}, \frac{369}{1765}, -\frac{448}{1765}, -\frac{2}{1765}, \frac{12}{1765}, -\frac{79}{1765})$ $+ \frac{1}{1765}\sqrt{585438}e^2 \otimes e_9 + \frac{1}{1765}\sqrt{606214}e^5 \otimes e_7$	{123568, 1256, 1346789, 14679, 2347, 2478, 359, 589}
93:22	$0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{12}, \frac{1}{139}\sqrt{210}e^{13}, \frac{1}{139}\sqrt{1295}e^{14} + \frac{2}{139}\sqrt{455}e^{56}$	$(\frac{15}{278}, \frac{36}{139}, -\frac{55}{278}, -\frac{13}{278}, \frac{15}{139}, -\frac{14}{139}, \frac{87}{278}, -\frac{20}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2030}e^5 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^2 \otimes e_9 + \frac{5}{139}\sqrt{119}e^1 \otimes e_3$	{12456, 1579, 23567, 3459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{211}\sqrt{1397}e^{12}, \frac{2}{211}\sqrt{55}e^{13}, \frac{1}{211}\sqrt{3322}e^{24} + \frac{2}{211}\sqrt{1430}e^{56}$	$(-\frac{203}{844}, \frac{173}{844}, \frac{51}{844}, -\frac{3}{844}, \frac{73}{422}, \frac{6}{211}, -\frac{15}{422}, -\frac{38}{211}, \frac{85}{422})$ $+ \frac{1}{211}\sqrt{4730}e^2 \otimes e_4 + \frac{1}{211}\sqrt{4906}e^6 \otimes e_8 + \frac{1}{211}\sqrt{7590}e^5 \otimes e_7$	{12356, 1478, 2378, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{8}{2071}\sqrt{9730}e^{12}, \frac{4}{2071}\sqrt{2870}e^{13},$ $\frac{4}{2071}\sqrt{10010}e^{24} + \frac{16}{2071}\sqrt{2415}e^{56}$	$(-\frac{423}{2071}, \frac{319}{2071}, \frac{638}{2071}, -\frac{241}{2071}, \frac{24}{109}, -\frac{378}{2071}, -\frac{104}{2071}, \frac{215}{2071}, \frac{78}{2071})$ $+ \frac{20}{2071}\sqrt{1414}e^3 \otimes e_9 + \frac{24}{2071}\sqrt{1085}e^2 \otimes e_4 + \frac{8}{2071}\sqrt{14595}e^5 \otimes e_7$	{12356, 1347, 2378, 34568}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{703}e^{12}, \frac{2}{181}\sqrt{1073}e^{13}, \frac{2}{181}\sqrt{370}e^{24} + \frac{2}{181}\sqrt{2109}e^{56}$	$(-\frac{27}{181}, -\frac{8}{181}, \frac{77}{181}, \frac{11}{181}, \frac{39}{181}, -\frac{36}{181}, -\frac{35}{181}, \frac{50}{181}, \frac{3}{181})$ $+ \frac{10}{181}\sqrt{111}e^5 \otimes e_7 + \frac{2}{181}\sqrt{3145}e^3 \otimes e_9$	{123456, 12589, 137, 146789, 23478, 2679, 3568, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{496}\sqrt{25647}e^{12}, \frac{1}{496}\sqrt{27390}e^{13},$ $\frac{1}{496}\sqrt{33366}e^{24} + \frac{3}{248}\sqrt{498}e^{56}$	$(\frac{235}{992}, \frac{259}{992}, -\frac{263}{992}, -\frac{239}{992}, \frac{5}{496}, \frac{5}{496}, \frac{247}{496}, -\frac{7}{496}, \frac{5}{496})$ $+ \frac{1}{496}\sqrt{113295}e^1 \otimes e_3 + \frac{1}{496}\sqrt{113295}e^2 \otimes e_4$	{12, 1256, 14567, 147, 23567, 237, 34, 3456}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{2}e^{12}, \frac{4}{11}\sqrt{3}e^{13}, \frac{4}{11}\sqrt{2}e^{24} + \frac{4}{11}\sqrt{3}e^{56}$	$(\frac{6}{11}, -\frac{2}{11}, -\frac{1}{11}, 0, -\frac{1}{11}, -\frac{1}{11}, \frac{4}{11}, \frac{5}{11}, -\frac{2}{11})$ $+ \frac{12}{11}e^1 \otimes e_9$	{1234, 123456, 124568, 1248, 13567, 137, 15678, 178, 235789, 2579, 34589, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1969}\sqrt{192182}e^{12}, \frac{4}{1969}\sqrt{21183}e^{13},$ $\frac{2}{1969}\sqrt{73373}e^{24} + \frac{2}{1969}\sqrt{34077}e^{56}$	$(\frac{279}{1969}, \frac{22}{179}, -\frac{344}{1969}, -\frac{270}{1969}, -\frac{14}{1969}, -\frac{14}{1969}, \frac{521}{1969}, -\frac{65}{1969}, -\frac{28}{1969})$ $+ \frac{12}{1969}\sqrt{3991}e^1 \otimes e_9 + \frac{5}{1969}\sqrt{20262}e^2 \otimes e_8$	{1234, 123456, 15678, 178, 2579, 34589}
93:23	$0, 0, 0, 0, 0, 0, \frac{8}{1231}\sqrt{1155}e^{12}, \frac{4}{1231}\sqrt{6330}e^{13},$ $\frac{4}{1231}\sqrt{6430}e^{24} + \frac{40}{1231}\sqrt{3}e^{56}$	$(-\frac{75}{1231}, -\frac{85}{1231}, \frac{126}{1231}, \frac{131}{1231}, -\frac{80}{1231}, \frac{126}{1231}, \frac{160}{1231}, \frac{51}{1231}, \frac{46}{1231})$ $+ \frac{4}{1231}\sqrt{6630}e^3 \otimes e_9 + \frac{8}{1231}\sqrt{1695}e^4 \otimes e_8 + \frac{8}{1231}\sqrt{515}e^5 \otimes e_7$	{123457, 1256789, 3578, 45679}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{144}\sqrt{12558}e^{12}, \frac{7}{144}\sqrt{230}e^{13}, \frac{1}{36}\sqrt{161}e^{24} + \frac{23}{144}\sqrt{7}e^{56}$	$(-\frac{95}{288}, -\frac{1}{32}, \frac{109}{144}, \frac{23}{96}, \frac{5}{48}, \frac{5}{48}, -\frac{13}{36}, \frac{41}{96}, \frac{5}{24})$ $+ \frac{1}{144}\sqrt{37835}e^3 \otimes e_7$	{123, 123459, 12356, 145678, 1478, 15789, 24579, 2567, 27, 34568, 348, 3589}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{429}e^{12}, \frac{2}{127}\sqrt{858}e^{13}, \frac{2}{127}\sqrt{429}e^{24} + \frac{2}{127}\sqrt{858}e^{56}$	$(-\frac{17}{127}, -\frac{6}{127}, -\frac{6}{127}, \frac{55}{127}, \frac{55}{127}, -\frac{6}{127}, -\frac{23}{127}, -\frac{23}{127}, \frac{49}{127})$ $+ \frac{10}{127}\sqrt{78}e^4 \otimes e_7 + \frac{2}{127}\sqrt{2379}e^5 \otimes e_8$	{123456, 1248, 13567, 178, 236789, 2579, 34689, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{11}e^{12}, \frac{4}{23}\sqrt{22}e^{13}, \frac{2}{23}\sqrt{11}e^{24} + \frac{4}{23}\sqrt{22}e^{56}$	$(-\frac{3}{23}, \frac{6}{23}, -\frac{4}{23}, \frac{5}{23}, \frac{15}{23}, -\frac{4}{23}, \frac{3}{23}, -\frac{7}{23}, \frac{11}{23})$ $+ \frac{2}{23}\sqrt{209}e^5 \otimes e_8$	{1234579, 123567, 1246789, 1278, 13456, 1359, 148, 1689, 234689, 238, 2459, 256, 3478, 36789, 4567, 579}
93:23	$0, 0, 0, 0, 0, 0, \frac{16}{177}\sqrt{29}e^{12}, \frac{16}{177}\sqrt{3}e^{13}, \frac{16}{177}\sqrt{29}e^{24} + \frac{16}{177}\sqrt{3}e^{56}$	$(-\frac{2}{59}, -\frac{38}{177}, \frac{23}{177}, \frac{28}{59}, \frac{29}{177}, -\frac{41}{177}, -\frac{44}{177}, \frac{17}{177}, \frac{46}{177})$ $+ \frac{128}{177}e^5 \otimes e_6 + \frac{16}{177}\sqrt{93}e^4 \otimes e_7$	{123458, 123468, 1245, 1246, 13578, 13678, 157, 167}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{1881}\sqrt{109830}e^{12}, \frac{1}{1881}\sqrt{509402}e^{13},$ $\frac{2}{1881}\sqrt{35041}e^{24} + \frac{4}{1881}\sqrt{22489}e^{56}$	$(\frac{259}{1881}, -\frac{2}{11}, \frac{40}{171}, \frac{26}{627}, -\frac{4}{57}, -\frac{4}{57}, -\frac{83}{1881}, \frac{233}{627}, -\frac{8}{57})$ $+ \frac{1}{1881}\sqrt{747890}e^3 \otimes e_7 + \frac{2}{627}\sqrt{27719}e^1 \otimes e_9$	{1234, 123456, 15678, 178, 2579, 34589}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{349}\sqrt{2567}e^{12}, \frac{1}{349}\sqrt{31710}e^{13},$ $\frac{4}{349}\sqrt{453}e^{24} + \frac{2}{349}\sqrt{5738}e^{56}$	$(-\frac{101}{349}, \frac{28}{349}, \frac{78}{349}, \frac{62}{349}, \frac{128}{349}, -\frac{38}{349}, -\frac{73}{349}, -\frac{23}{349}, \frac{90}{349})$ $+ \frac{1}{349}\sqrt{43790}e^3 \otimes e_7 + \frac{2}{349}\sqrt{12533}e^5 \otimes e_8$	{123459, 12356, 1478, 16789, 24579, 2567, 348, 3689}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{82}\sqrt{1342}e^{12}, \frac{1}{164}\sqrt{610}e^{13}, \frac{1}{164}\sqrt{2318}e^{24} + \frac{1}{82}\sqrt{793}e^{56}$	$(\frac{33}{328}, \frac{81}{328}, -\frac{89}{328}, -\frac{1}{8}, \frac{33}{164}, -\frac{13}{164}, \frac{57}{164}, -\frac{7}{41}, \frac{5}{41})$ $+ \frac{1}{164}\sqrt{6405}e^1 \otimes e_3 + \frac{1}{164}\sqrt{6405}e^2 \otimes e_4 + \frac{1}{82}\sqrt{1403}e^5 \otimes e_8$	{128, 1478, 2378, 348}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{266}e^{12}, \frac{2}{51}\sqrt{42}e^{13}, \frac{1}{51}\sqrt{266}e^{24} + \frac{2}{51}\sqrt{42}e^{56}$	$(\frac{4}{17}, -\frac{14}{51}, -\frac{1}{51}, \frac{4}{17}, \frac{2}{17}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{14}{51}e^5 \otimes e_6 + \frac{1}{17}\sqrt{70}e^1 \otimes e_9 + \frac{1}{51}\sqrt{462}e^4 \otimes e_7$	{235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{51}\sqrt{266}e^{12}, \frac{2}{51}\sqrt{42}e^{13}, \frac{1}{51}\sqrt{266}e^{24} + \frac{2}{51}\sqrt{42}e^{56}$	$(\frac{4}{17}, -\frac{14}{51}, -\frac{1}{51}, \frac{4}{17}, \frac{2}{17}, -\frac{8}{51}, -\frac{2}{51}, \frac{11}{51}, -\frac{2}{51})$ $+ \frac{14}{51}e^5 \otimes e_6 + \frac{1}{17}\sqrt{70}e^1 \otimes e_9 - \frac{1}{51}\sqrt{462}e^4 \otimes e_7$	{235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{9}{1609}\sqrt{8270}e^{12}, \frac{14}{1609}\sqrt{1654}e^{13},$ $\frac{6}{1609}\sqrt{9097}e^{24} + \frac{2}{1609}\sqrt{2481}e^{56}$	$(\frac{195}{1609}, \frac{390}{1609}, -\frac{632}{1609}, -\frac{18}{1609}, \frac{186}{1609}, \frac{186}{1609}, \frac{585}{1609}, -\frac{437}{1609}, \frac{372}{1609})$ $+ \frac{1}{1609}\sqrt{1344702}e^2 \otimes e_8 + \frac{4}{1609}\sqrt{63679}e^1 \otimes e_3$	{1456789, 14789, 1578, 345689, 3489, 358}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{93}\sqrt{1482}e^{12}, \frac{1}{31}\sqrt{190}e^{13}, \frac{4}{93}\sqrt{57}e^{24} + \frac{2}{93}\sqrt{627}e^{56}$	$(\frac{6}{31}, \frac{2}{31}, -\frac{13}{31}, \frac{19}{93}, \frac{12}{31}, -\frac{11}{93}, \frac{8}{31}, -\frac{7}{31}, \frac{25}{93})$ $+ \frac{1}{93}\sqrt{3990}e^1 \otimes e_3 + \frac{1}{93}\sqrt{5358}e^5 \otimes e_8$	{124689, 128, 1478, 16789, 2346789, 2378, 348, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{12}{803}\sqrt{1002}e^{12}, \frac{4}{803}\sqrt{4342}e^{13},$ $\frac{2}{803}\sqrt{8517}e^{24} + \frac{2}{803}\sqrt{26553}e^{56}$	$(\frac{208}{803}, \frac{104}{803}, -\frac{8}{803}, -\frac{230}{803}, -\frac{63}{803}, -\frac{63}{803}, \frac{312}{803}, \frac{200}{803}, -\frac{126}{803})$ $+ \frac{10}{803}\sqrt{1837}e^2 \otimes e_4 + \frac{24}{803}\sqrt{501}e^1 \otimes e_9$	{235789, 2579, 34589, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{449}\sqrt{12558}e^{12}, \frac{14}{449}\sqrt{230}e^{13}, \frac{8}{449}\sqrt{161}e^{24} + \frac{46}{449}\sqrt{7}e^{56}$	$(-\frac{95}{449}, -\frac{9}{449}, \frac{218}{449}, \frac{69}{449}, \frac{191}{449}, -\frac{131}{449}, -\frac{104}{449}, \frac{123}{449}, \frac{60}{449})$ $+ \frac{2}{449}\sqrt{37835}e^3 \otimes e_7 + \frac{322}{449}e^5 \otimes e_6$	{123459, 123469, 15789, 16789, 24579, 24679, 3589, 3689}
93:23	$0, 0, 0, 0, 0, 0, \frac{6}{485}\sqrt{1002}e^{12}, \frac{2}{485}\sqrt{4342}e^{13},$ $\frac{1}{485}\sqrt{8517}e^{24} + \frac{1}{485}\sqrt{26553}e^{56}$	$(\frac{104}{485}, \frac{52}{485}, -\frac{4}{485}, -\frac{23}{485}, \frac{52}{485}, -\frac{23}{485}, \frac{156}{485}, \frac{20}{485}, -\frac{63}{485})$ $+ \frac{12}{485}\sqrt{501}e^1 \otimes e_9 - \frac{167}{485}e^5 \otimes e_6 + \frac{1}{97}\sqrt{1837}e^2 \otimes e_4$	{235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{2290}e^{12}, \frac{4}{935}\sqrt{9389}e^{13},$ $\frac{2}{935}\sqrt{39846}e^{24} + \frac{2}{935}\sqrt{6870}e^{56}$	$(\frac{14}{85}, -\frac{16}{187}, -\frac{304}{935}, \frac{28}{85}, \frac{343}{935}, -\frac{23}{187}, \frac{74}{935}, -\frac{30}{187}, \frac{228}{935})$ $+ \frac{2}{935}\sqrt{91142}e^4 \otimes e_8 + \frac{458}{935}e^5 \otimes e_6 + \frac{8}{935}\sqrt{3206}e^1 \otimes e_3$	{158, 168, 3578, 3678}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{2}{79}\sqrt{105}e^{13}, \frac{1}{79}\sqrt{70}e^{24} + \frac{5}{79}\sqrt{42}e^{56}$	$(-\frac{21}{79}, \frac{17}{79}, \frac{3}{79}, \frac{8}{79}, \frac{31}{79}, -\frac{6}{79}, -\frac{4}{79}, -\frac{18}{79}, \frac{25}{79})$ $+ \frac{1}{79}\sqrt{2310}e^2 \otimes e_8 + \frac{1}{79}\sqrt{2590}e^5 \otimes e_7$	{123456, 12359, 146789, 178, 247, 2679, 34589, 3568}
93:23	$0, 0, 0, 0, 0, 0, \frac{16}{1173}\sqrt{222}e^{12}, \frac{8}{391}\sqrt{190}e^{13},$ $\frac{16}{1173}\sqrt{69}e^{24} + \frac{8}{1173}\sqrt{1914}e^{56}$	$(\frac{172}{1173}, \frac{86}{1173}, -\frac{175}{1173}, -\frac{106}{1173}, \frac{63}{391}, -\frac{209}{1173}, \frac{86}{391}, -\frac{31}{1173}, -\frac{20}{1173})$ $+ \frac{16}{1173}\sqrt{255}e^2 \otimes e_4 + \frac{16}{1173}\sqrt{597}e^5 \otimes e_8 + \frac{8}{391}\sqrt{330}e^1 \otimes e_9$	{236789, 2579, 34689, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{93}\sqrt{1482}e^{12}, \frac{1}{31}\sqrt{190}e^{13}, \frac{4}{93}\sqrt{57}e^{24} + \frac{2}{93}\sqrt{627}e^{56}$	$(-\frac{17}{93}, \frac{41}{93}, -\frac{4}{93}, -\frac{16}{93}, \frac{12}{31}, -\frac{11}{93}, \frac{8}{31}, -\frac{7}{31}, \frac{25}{93})$ $+ \frac{1}{93}\sqrt{3990}e^2 \otimes e_4 + \frac{1}{93}\sqrt{5358}e^5 \otimes e_8$	{12356, 128, 134567, 1478, 2378, 2567, 348, 456}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{15}\sqrt{2}e^{12}, \frac{4}{15}\sqrt{3}e^{13}, \frac{4}{15}\sqrt{2}e^{24} + \frac{4}{15}\sqrt{3}e^{56}$	$(\frac{2}{5}, -\frac{2}{15}, -\frac{1}{15}, 0, \frac{1}{5}, -\frac{1}{3}, \frac{4}{15}, \frac{1}{3}, -\frac{2}{15})$ $+ \frac{4}{5}e^1 \otimes e_9 + \frac{8}{15}e^5 \otimes e_6$	{235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1497}\sqrt{67346}e^{12}, \frac{4}{1497}\sqrt{13826}e^{13},$ $\frac{4}{1497}\sqrt{6913}e^{24} + \frac{11}{1497}\sqrt{1338}e^{56}$	$(-\frac{214}{1497}, \frac{34}{1497}, \frac{100}{499}, \frac{43}{1497}, \frac{103}{499}, -\frac{232}{1497}, -\frac{60}{499}, \frac{86}{1497}, \frac{77}{1497})$ $+ \frac{1}{1497}\sqrt{241286}e^5 \otimes e_8 + \frac{1}{1497}\sqrt{296590}e^3 \otimes e_9 + \frac{8}{1497}\sqrt{1115}e^4 \otimes e_7$	{126789, 14689, 2348, 378}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{487}\sqrt{8931}e^{12}, \frac{2}{487}\sqrt{3783}e^{13}, \frac{6}{487}\sqrt{403}e^{24} + \frac{12}{487}\sqrt{13}e^{56}$	$(-\frac{43}{487}, -\frac{35}{487}, \frac{64}{487}, \frac{60}{487}, \frac{32}{487}, -\frac{7}{487}, -\frac{78}{487}, \frac{21}{487}, \frac{25}{487})$ $+ \frac{1}{487}\sqrt{16341}e^4 \otimes e_8 + \frac{1}{487}\sqrt{17277}e^3 \otimes e_9 + \frac{39}{487}e^5 \otimes e_6$	{125789, 126789, 4579, 4679}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{184}\sqrt{830}e^{12}, \frac{3}{184}\sqrt{1162}e^{13}, \frac{1}{92}\sqrt{1743}e^{24} + \frac{1}{184}\sqrt{1245}e^{56}$	$(-\frac{77}{368}, -\frac{35}{368}, \frac{27}{184}, \frac{143}{368}, \frac{27}{184}, \frac{27}{184}, -\frac{7}{23}, -\frac{1}{16}, \frac{27}{92})$ $+ \frac{1}{184}\sqrt{11703}e^3 \otimes e_7 + \frac{1}{92}\sqrt{3901}e^4 \otimes e_8$	{1256789, 12789, 134569, 1349, 235689, 2389, 45679, 479}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1687}\sqrt{68226}e^{12}, \frac{1}{1687}\sqrt{47310}e^{13},$ $\frac{13}{1687}\sqrt{166}e^{24} + \frac{2}{1687}\sqrt{14442}e^{56}$	$(\frac{96}{1687}, \frac{38}{1687}, -\frac{141}{1687}, -\frac{25}{1687}, \frac{31}{241}, -\frac{204}{1687}, \frac{134}{1687}, -\frac{45}{1687}, \frac{13}{1687})$ $+ \frac{1}{1687}\sqrt{69886}e^5 \otimes e_7 + \frac{2}{1687}\sqrt{19671}e^2 \otimes e_8 + \frac{36}{1687}\sqrt{83}e^1 \otimes e_9$	{123456, 178, 2679, 34589}
93:23	$0, 0, 0, 0, 0, 0, \frac{16}{113}\sqrt{29}e^{12}, \frac{16}{113}\sqrt{3}e^{13}, \frac{16}{113}\sqrt{29}e^{24} + \frac{16}{113}\sqrt{3}e^{56}$	$(-\frac{6}{113}, -\frac{38}{113}, \frac{23}{113}, \frac{84}{113}, \frac{23}{113}, \frac{23}{113}, -\frac{44}{113}, \frac{17}{113}, \frac{46}{113})$ $+ \frac{16}{113}\sqrt{93}e^4 \otimes e_7$	{123458, 1245, 13578, 157, 235679, 2379, 256789, 2789, 34569, 349, 45689, 489}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{303}\sqrt{13910}e^{12}, \frac{1}{303}\sqrt{6634}e^{13},$ $\frac{1}{303}\sqrt{10914}e^{24} + \frac{2}{303}\sqrt{6313}e^{56}$	$(-\frac{22}{101}, \frac{16}{303}, -\frac{1}{303}, \frac{27}{101}, \frac{19}{303}, \frac{40}{303}, -\frac{50}{303}, -\frac{67}{303}, \frac{97}{303})$ $+ \frac{16}{303}\sqrt{107}e^6 \otimes e_8 + \frac{1}{303}\sqrt{31030}e^5 \otimes e_7$	{12356, 124589, 13679, 1478, 2378, 24679, 3589, 456}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{215}\sqrt{1463}e^{12}, \frac{1}{215}\sqrt{8778}e^{13},$ $\frac{2}{215}\sqrt{1463}e^{24} + \frac{1}{215}\sqrt{8778}e^{56}$	$(-\frac{28}{215}, -\frac{17}{215}, -\frac{6}{215}, \frac{99}{215}, \frac{88}{215}, -\frac{6}{215}, -\frac{9}{215}, -\frac{34}{215}, \frac{82}{215})$ $+ \frac{2}{215}\sqrt{6251}e^4 \otimes e_8 + \frac{2}{215}\sqrt{6251}e^5 \otimes e_7$	{123456, 12589, 134679, 178, 236789, 247, 3568, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{6}{449}\sqrt{2082}e^{12}, \frac{2}{449}\sqrt{3470}e^{13},$ $\frac{1}{449}\sqrt{19779}e^{24} + \frac{1}{449}\sqrt{17697}e^{56}$	$(\frac{375}{898}, -\frac{63}{898}, -\frac{319}{898}, \frac{153}{898}, \frac{196}{449}, -\frac{151}{449}, \frac{156}{449}, \frac{28}{449}, \frac{45}{449})$ $+ \frac{1}{449}\sqrt{157885}e^1 \otimes e_3 + \frac{347}{449}e^5 \otimes e_6$	{12459, 12469, 1579, 1679, 234579, 234679, 359, 369}
93:23	$0, 0, 0, 0, 0, 0, \frac{114}{1117}\sqrt{10}e^{12}, \frac{36}{1117}\sqrt{133}e^{13},$ $\frac{12}{1117}\sqrt{589}e^{24} + \frac{12}{1117}\sqrt{38}e^{56}$	$(-\frac{342}{1117}, \frac{240}{1117}, \frac{240}{1117}, -\frac{24}{1117}, \frac{279}{1117}, -\frac{63}{1117}, -\frac{102}{1117}, -\frac{102}{1117}, \frac{216}{1117})$ $+ \frac{342}{1117}e^5 \otimes e_6 + \frac{6}{1117}\sqrt{8626}e^2 \otimes e_8 + \frac{84}{1117}\sqrt{38}e^3 \otimes e_7$	{12345, 12346, 1578, 1678, 2457, 2467, 358, 368}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{114}{1117}\sqrt{10}e^{12}, \frac{36}{1117}\sqrt{133}e^{13},$ $\frac{12}{1117}\sqrt{589}e^{24} + \frac{12}{1117}\sqrt{38}e^{56}$	$(-\frac{342}{1117}, \frac{240}{1117}, \frac{240}{1117}, -\frac{24}{1117}, \frac{279}{1117}, -\frac{63}{1117}, -\frac{102}{1117}, -\frac{102}{1117}, \frac{216}{1117})$ $+\frac{342}{1117}e^5 \otimes e_6 + \frac{6}{1117}\sqrt{8626}e^2 \otimes e_8 - \frac{84}{1117}\sqrt{38}e^3 \otimes e_7$	{12345, 12346, 1578, 1678, 2457, 2467, 358, 368}
93:23	$0, 0, 0, 0, 0, 0, \frac{6}{485}\sqrt{1002}e^{12}, \frac{2}{485}\sqrt{4342}e^{13},$ $\frac{1}{485}\sqrt{8517}e^{24} + \frac{1}{485}\sqrt{26553}e^{56}$	$(\frac{104}{485}, \frac{52}{485}, -\frac{4}{485}, -\frac{23}{485}, \frac{52}{485}, -\frac{23}{485}, \frac{156}{97}, \frac{20}{485}, -\frac{63}{485})$ $+\frac{12}{485}\sqrt{501}e^1 \otimes e_9 + \frac{167}{485}e^5 \otimes e_6 + \frac{1}{97}\sqrt{1837}e^2 \otimes e_4$	{235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{30}{3449}\sqrt{134}e^{12}, \frac{18}{3449}\sqrt{4690}e^{13},$ $\frac{12}{3449}\sqrt{14338}e^{24} + \frac{12}{3449}\sqrt{5494}e^{56}$	$(-\frac{250}{3449}, -\frac{476}{3449}, \frac{1210}{3449}, \frac{480}{3449}, \frac{605}{3449}, -\frac{601}{3449}, -\frac{726}{3449}, \frac{960}{3449}, \frac{4}{3449})$ $+\frac{1206}{3449}e^5 \otimes e_6 + \frac{6}{3449}\sqrt{101170}e^3 \otimes e_9 + \frac{6}{3449}\sqrt{67402}e^4 \otimes e_7$	{125789, 126789, 14589, 14689}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{557}\sqrt{145}e^{12}, \frac{2}{557}\sqrt{4321}e^{13}, \frac{2}{557}\sqrt{754}e^{24} + \frac{2}{557}\sqrt{5133}e^{56}$	$(-\frac{99}{557}, \frac{24}{557}, \frac{101}{557}, \frac{19}{557}, -\frac{17}{557}, \frac{60}{557}, -\frac{75}{557}, \frac{2}{557}, \frac{43}{557})$ $+\frac{16}{557}\sqrt{87}e^6 \otimes e_8 + \frac{2}{557}\sqrt{3335}e^5 \otimes e_7 + \frac{2}{557}\sqrt{5945}e^3 \otimes e_9$	{1356, 14589, 378, 4679}
93:23	$0, 0, 0, 0, 0, 0, \frac{212}{581}\sqrt{2}e^{12}, \frac{4}{581}\sqrt{12137}e^{13},$ $\frac{4}{581}\sqrt{9805}e^{24} + \frac{8}{581}\sqrt{1749}e^{56}$	$(-\frac{27}{581}, \frac{17}{581}, \frac{352}{581}, -\frac{89}{581}, -\frac{36}{581}, -\frac{36}{581}, -\frac{10}{581}, \frac{325}{581}, -\frac{72}{581})$ $+\frac{4}{581}\sqrt{25705}e^3 \otimes e_9$	{1234567, 12347, 125789, 13, 1356, 14589, 234568, 2348, 259, 35678, 378, 4579}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{787}\sqrt{30290}e^{12}, \frac{4}{787}\sqrt{13281}e^{13},$ $\frac{2}{787}\sqrt{57318}e^{24} + \frac{6}{787}\sqrt{1398}e^{56}$	$(-\frac{14}{787}, -\frac{32}{787}, -\frac{144}{787}, \frac{308}{787}, \frac{371}{787}, -\frac{95}{787}, \frac{46}{787}, \frac{158}{787}, \frac{276}{787})$ $+\frac{2}{787}\sqrt{109510}e^4 \otimes e_8 + \frac{466}{787}e^5 \otimes e_6$	{123457, 123467, 158, 168, 245, 246, 3578, 3678}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{4461}\sqrt{489578}e^{12}, \frac{4}{4461}\sqrt{82041}e^{13},$ $\frac{20}{4461}\sqrt{7337}e^{24} + \frac{8}{4461}\sqrt{10005}e^{56}$	$(-\frac{282}{4461}, \frac{376}{4461}, -\frac{112}{4461}, \frac{288}{4461}, \frac{429}{4461}, -\frac{47}{4461}, -\frac{470}{4461}, -\frac{958}{4461}, \frac{1240}{4461})$ $+\frac{1334}{4461}e^5 \otimes e_6 + \frac{2}{4461}\sqrt{1220610}e^2 \otimes e_8 + \frac{8}{1487}\sqrt{7337}e^4 \otimes e_7$	{12345, 12346, 1578, 1678}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{44}\sqrt{266}e^{12}, \frac{1}{22}\sqrt{42}e^{13}, \frac{1}{44}\sqrt{266}e^{24} + \frac{1}{22}\sqrt{42}e^{56}$	$(\frac{3}{11}, -\frac{7}{22}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{44}, -\frac{1}{22}, \frac{1}{4}, -\frac{1}{22})$ $-\frac{1}{44}\sqrt{462}e^4 \otimes e_7 + \frac{3}{44}\sqrt{70}e^1 \otimes e_9$	{1234, 123456, 124568, 1248, 13567, 137, 15678, 178, 235789, 2579, 34589, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{8931}e^{12}, \frac{4}{935}\sqrt{3783}e^{13},$ $\frac{12}{935}\sqrt{403}e^{24} + \frac{24}{935}\sqrt{13}e^{56}$	$(-\frac{86}{935}, -\frac{14}{187}, \frac{128}{935}, \frac{24}{187}, \frac{5}{187}, \frac{5}{187}, -\frac{156}{935}, \frac{42}{187}, \frac{10}{187})$ $+\frac{2}{935}\sqrt{16341}e^4 \otimes e_8 + \frac{2}{935}\sqrt{17277}e^3 \otimes e_9$	{1234567, 12347, 125789, 35678, 378, 4579}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{44}\sqrt{266}e^{12}, \frac{1}{22}\sqrt{42}e^{13}, \frac{1}{44}\sqrt{266}e^{24} + \frac{1}{22}\sqrt{42}e^{56}$	$(\frac{3}{11}, -\frac{7}{22}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{44}, -\frac{1}{22}, \frac{1}{4}, -\frac{1}{22})$ $+\frac{1}{44}\sqrt{462}e^4 \otimes e_7 + \frac{3}{44}\sqrt{70}e^1 \otimes e_9$	{1234, 123456, 124568, 1248, 13567, 137, 15678, 178, 235789, 2579, 34589, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{12}{551}\sqrt{2082}e^{12}, \frac{4}{551}\sqrt{3470}e^{13},$ $\frac{2}{551}\sqrt{19779}e^{24} + \frac{2}{551}\sqrt{17697}e^{56}$	$(\frac{375}{551}, -\frac{63}{551}, -\frac{11}{19}, \frac{153}{551}, \frac{45}{551}, \frac{45}{551}, \frac{312}{551}, \frac{56}{551}, \frac{90}{551})$ $+\frac{2}{551}\sqrt{157885}e^1 \otimes e_3$	{12, 12459, 1256, 14567, 147, 1579, 234579, 23567, 237, 34, 3456, 359}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{1195}\sqrt{26563}e^{12}, \frac{2}{1195}\sqrt{28482}e^{13},$ $\frac{2}{1195}\sqrt{50298}e^{24} + \frac{36}{1195}\sqrt{202}e^{56}$	$(\frac{176}{1195}, -\frac{181}{1195}, -\frac{228}{1195}, \frac{352}{1195}, \frac{399}{1195}, -\frac{228}{1195}, -\frac{1}{239}, -\frac{52}{1195}, \frac{171}{1195})$ $+\frac{2}{1195}\sqrt{126654}e^5 \otimes e_7 + \frac{2}{1195}\sqrt{1414}e^4 \otimes e_8 + \frac{2}{1195}\sqrt{93930}e^1 \otimes e_3$	{12459, 147, 234679, 3456}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{2290}e^{12}, \frac{2}{353}\sqrt{9389}e^{13},$ $\frac{1}{353}\sqrt{39846}e^{24} + \frac{1}{353}\sqrt{6870}e^{56}$	$(\frac{77}{353}, -\frac{40}{353}, -\frac{152}{353}, \frac{154}{353}, \frac{57}{353}, \frac{57}{353}, \frac{37}{353}, -\frac{75}{353}, \frac{114}{353})$ $+\frac{1}{353}\sqrt{91142}e^4 \otimes e_8 + \frac{4}{353}\sqrt{3206}e^1 \otimes e_3$	{1256789, 12789, 158, 235689, 2389, 3578}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1639}\sqrt{360186}e^{12}, \frac{1639}{1639}\sqrt{10410}e^{13},$ $\frac{1}{1639}\sqrt{36782}e^{24} + \frac{2}{1639}\sqrt{97854}e^{56}$	$(\frac{270}{1639}, -\frac{2}{11}, \frac{3}{149}, \frac{221}{1639}, \frac{29}{149}, -\frac{36}{149}, -\frac{28}{1639}, \frac{303}{1639}, -\frac{7}{149})$ $+\frac{1}{1639}\sqrt{496210}e^5 \otimes e_7 + \frac{6}{1639}\sqrt{14574}e^1 \otimes e_9$	{12356, 12568, 1347, 1478, 2346789, 24679, 3589, 59}
93:23	$0, 0, 0, 0, 0, 0, \frac{3}{377}\sqrt{770}e^{12}, \frac{36}{377}\sqrt{14}e^{13}, \frac{84}{377}e^{24} + \frac{3}{377}\sqrt{1498}e^{56}$	$(-\frac{54}{377}, \frac{34}{377}, \frac{76}{377}, -\frac{21}{377}, \frac{85}{377}, -\frac{72}{377}, -\frac{20}{377}, \frac{22}{377}, \frac{1}{29})$ $+\frac{3}{377}\sqrt{2198}e^5 \otimes e_8 + \frac{3}{377}\sqrt{2590}e^3 \otimes e_9$	{1234567, 126789, 1356, 14689, 2348, 259, 378, 4579}
93:23	$0, 0, 0, 0, 0, 0, \frac{12}{551}\sqrt{2082}e^{12}, \frac{4}{551}\sqrt{3470}e^{13},$ $\frac{2}{551}\sqrt{19779}e^{24} + \frac{2}{551}\sqrt{17697}e^{56}$	$(-\frac{80}{551}, \frac{392}{551}, \frac{136}{551}, -\frac{302}{551}, \frac{45}{551}, \frac{45}{551}, \frac{312}{551}, \frac{56}{551}, \frac{90}{551})$ $+\frac{2}{551}\sqrt{157885}e^2 \otimes e_4$	{12, 123568, 1238, 1256, 1345678, 13478, 14567, 147, 23567, 237, 25678, 278, 34, 3456, 4568, 48}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{277}\sqrt{57318}e^{12}, \frac{3}{277}\sqrt{1398}e^{13},$ $\frac{1}{277}\sqrt{30290}e^{24} + \frac{2}{277}\sqrt{13281}e^{56}$	$(-\frac{54}{277}, -\frac{16}{277}, \frac{69}{277}, \frac{107}{277}, \frac{163}{277}, -\frac{72}{277}, -\frac{70}{277}, \frac{15}{277}, \frac{91}{277})$ $+\frac{1}{277}\sqrt{109510}e^5 \otimes e_7$	{1234589, 123568, 12459, 1256, 13478, 136789, 147, 1679, 234679, 237, 246789, 278, 3456, 359, 4568, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{23}{244}\sqrt{2}e^{12}, \frac{1}{244}\sqrt{7130}e^{13}, \frac{1}{122}\sqrt{1633}e^{24} + \frac{1}{244}\sqrt{1794}e^{56}$	$(-\frac{87}{488}, \frac{109}{488}, \frac{13}{61}, -\frac{97}{488}, \frac{13}{122}, -\frac{5}{61}, \frac{11}{244}, \frac{17}{488}, \frac{3}{122})$ $+ \frac{1}{122}\sqrt{2461}e^3 \otimes e_9 + \frac{1}{244}\sqrt{8418}e^2 \otimes e_8 + \frac{23}{122}e^5 \otimes e_6$	{14589, 14689, 259, 269}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1945}\sqrt{249978}e^{12}, \frac{4}{1945}\sqrt{915}e^{13},$ $\frac{12}{1945}\sqrt{366}e^{24} + \frac{12}{1945}\sqrt{1403}e^{56}$	$(\frac{16}{389}, \frac{8}{389}, \frac{106}{1945}, -\frac{143}{1945}, \frac{303}{1945}, -\frac{406}{1945}, \frac{24}{1945}, \frac{186}{389}, -\frac{103}{1945})$ $+ \frac{1}{1945}\sqrt{158478}e^2 \otimes e_4 + \frac{1}{1945}\sqrt{259494}e^5 \otimes e_7 + \frac{3}{1945}\sqrt{26718}e^1 \otimes e_9$	{12356, 12568, 1347, 1478}
93:23	$0, 0, 0, 0, 0, 0, \frac{212}{793}\sqrt{2}e^{12}, \frac{4}{793}\sqrt{12137}e^{13},$ $\frac{4}{793}\sqrt{9805}e^{24} + \frac{8}{793}\sqrt{1749}e^{56}$	$(-\frac{27}{793}, \frac{17}{793}, \frac{352}{793}, -\frac{89}{793}, \frac{176}{793}, -\frac{248}{793}, -\frac{10}{793}, \frac{25}{61}, -\frac{72}{793})$ $+ \frac{424}{793}e^5 \otimes e_6 + \frac{4}{793}\sqrt{25705}e^3 \otimes e_9$	{125789, 126789, 14589, 14689, 259, 269, 4579, 4679}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{15}e^{12}, \frac{2}{43}\sqrt{30}e^{13}, \frac{2}{43}\sqrt{15}e^{24} + \frac{2}{43}\sqrt{30}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^5 \otimes e_8 - \frac{4}{43}\sqrt{6}e^4 \otimes e_7 + \frac{6}{43}\sqrt{6}e^1 \otimes e_9$	{123456, 1248, 13567, 178, 236789, 2579, 34689, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{15}e^{12}, \frac{2}{43}\sqrt{30}e^{13}, \frac{2}{43}\sqrt{15}e^{24} + \frac{2}{43}\sqrt{30}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^5 \otimes e_8 + \frac{4}{43}\sqrt{6}e^4 \otimes e_7 + \frac{6}{43}\sqrt{6}e^1 \otimes e_9$	{123456, 1248, 13567, 178, 236789, 2579, 34689, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{4245}\sqrt{192182}e^{12}, \frac{8}{4245}\sqrt{21183}e^{13},$ $\frac{4}{4245}\sqrt{73373}e^{24} + \frac{4}{4245}\sqrt{34077}e^{56}$	$(\frac{186}{1415}, \frac{484}{4245}, -\frac{688}{4245}, -\frac{36}{283}, \frac{93}{1415}, -\frac{67}{849}, \frac{1042}{4245}, -\frac{26}{849}, -\frac{56}{4245})$ $+ \frac{2}{849}\sqrt{20262}e^2 \otimes e_8 + \frac{614}{4245}e^5 \otimes e_6 + \frac{8}{1415}\sqrt{3991}e^1 \otimes e_9$	{2579, 2679, 34589, 34689}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{211}\sqrt{1397}e^{12}, \frac{2}{211}\sqrt{55}e^{13}, \frac{1}{211}\sqrt{3322}e^{24} + \frac{2}{211}\sqrt{1430}e^{56}$	$(\frac{3}{211}, -\frac{21}{422}, -\frac{41}{211}, \frac{53}{211}, \frac{73}{422}, \frac{6}{211}, -\frac{15}{422}, -\frac{38}{211}, \frac{85}{422})$ $+ \frac{1}{211}\sqrt{4730}e^1 \otimes e_3 + \frac{1}{211}\sqrt{4906}e^6 \otimes e_8 + \frac{1}{211}\sqrt{7590}e^5 \otimes e_7$	{124589, 1478, 2378, 3589}
93:23	$0, 0, 0, 0, 0, 0, \frac{57}{473}\sqrt{10}e^{12}, \frac{18}{473}\sqrt{133}e^{13}, \frac{6}{473}\sqrt{589}e^{24} + \frac{6}{473}\sqrt{38}e^{56}$	$(-\frac{171}{473}, \frac{120}{473}, \frac{120}{473}, -\frac{12}{473}, \frac{54}{473}, \frac{54}{473}, -\frac{51}{473}, -\frac{51}{473}, \frac{108}{473})$ $+ \frac{3}{473}\sqrt{8626}e^2 \otimes e_8 + \frac{42}{473}\sqrt{38}e^3 \otimes e_7$	{12345, 123569, 1239, 1456789, 14789, 1578, 2457, 25679, 279, 345689, 3489, 358}
93:23	$0, 0, 0, 0, 0, 0, \frac{57}{473}\sqrt{10}e^{12}, \frac{18}{473}\sqrt{133}e^{13}, \frac{6}{473}\sqrt{589}e^{24} + \frac{6}{473}\sqrt{38}e^{56}$	$(-\frac{171}{473}, \frac{120}{473}, \frac{120}{473}, -\frac{12}{473}, \frac{54}{473}, \frac{54}{473}, -\frac{51}{473}, -\frac{51}{473}, \frac{108}{473})$ $+ \frac{3}{473}\sqrt{8626}e^2 \otimes e_8 - \frac{42}{473}\sqrt{38}e^3 \otimes e_7$	{12345, 123569, 1239, 1456789, 14789, 1578, 2457, 25679, 279, 345689, 3489, 358}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{335}e^{12}, \frac{2}{213}\sqrt{2814}e^{13}, \frac{4}{213}\sqrt{737}e^{24} + \frac{2}{213}\sqrt{402}e^{56}$	$(-\frac{12}{71}, \frac{82}{213}, -\frac{16}{213}, -\frac{6}{71}, \frac{33}{71}, -\frac{35}{213}, \frac{46}{213}, -\frac{52}{213}, \frac{64}{213})$ $+ \frac{134}{213}e^5 \otimes e_6 + \frac{4}{213}\sqrt{2010}e^2 \otimes e_8$	{12345, 12346, 1578, 1678, 2457, 2467, 358, 368}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{995070}e^{12}, \frac{1}{1819}\sqrt{271830}e^{13},$ $\frac{3}{1819}\sqrt{52890}e^{24} + \frac{6}{1819}\sqrt{17015}e^{56}$	$(\frac{270}{1819}, -\frac{276}{1819}, -\frac{345}{1819}, \frac{533}{1819}, \frac{609}{1819}, -\frac{352}{1819}, -\frac{6}{1819}, -\frac{75}{1819}, \frac{257}{1819})$ $+ \frac{31}{1819}\sqrt{1230}e^5 \otimes e_7 + \frac{4}{1819}\sqrt{54735}e^1 \otimes e_3$	{12459, 1256, 147, 1679, 234679, 237, 3456, 359}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{4285}\sqrt{109830}e^{12}, \frac{2}{4285}\sqrt{509402}e^{13},$ $\frac{4}{4285}\sqrt{35041}e^{24} + \frac{8}{4285}\sqrt{22489}e^{56}$	$(\frac{518}{4285}, -\frac{684}{4285}, \frac{176}{857}, \frac{156}{4285}, \frac{259}{4285}, \frac{787}{4285}, -\frac{166}{4285}, \frac{1398}{4285}, -\frac{528}{4285})$ $+ \frac{1046}{4285}e^5 \otimes e_6 + \frac{12}{4285}\sqrt{27719}e^1 \otimes e_9 + \frac{2}{4285}\sqrt{747890}e^3 \otimes e_7$	{2579, 2679, 34589, 34689}
93:23	$0, 0, 0, 0, 0, 0, \frac{8}{583}\sqrt{215}e^{12}, \frac{4}{583}\sqrt{1290}e^{13}, \frac{8}{583}\sqrt{215}e^{24} + \frac{4}{583}\sqrt{1290}e^{56}$	$(\frac{97}{583}, -\frac{2}{11}, -\frac{6}{53}, \frac{117}{583}, \frac{7}{53}, -\frac{6}{53}, -\frac{9}{583}, \frac{31}{583}, \frac{1}{53})$ $+ \frac{18}{583}\sqrt{129}e^1 \otimes e_9 + \frac{2}{583}\sqrt{6149}e^4 \otimes e_8 + \frac{2}{583}\sqrt{6149}e^5 \otimes e_7$	{123456, 178, 236789, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{464}\sqrt{76638}e^{12}, \frac{1}{464}\sqrt{16870}e^{13},$ $\frac{1}{116}\sqrt{1446}e^{24} + \frac{3}{464}\sqrt{1687}e^{56}$	$(-\frac{295}{928}, \frac{271}{928}, \frac{229}{464}, -\frac{211}{928}, \frac{15}{464}, \frac{15}{464}, -\frac{3}{116}, \frac{163}{928}, \frac{15}{232})$ $+ \frac{1}{464}\sqrt{104835}e^3 \otimes e_7 + \frac{5}{116}\sqrt{241}e^2 \otimes e_4$	{123, 12356, 145678, 1478, 2567, 27, 34568, 348}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1337}\sqrt{81618}e^{12}, \frac{10}{1337}\sqrt{2230}e^{13},$ $\frac{8}{1337}\sqrt{1338}e^{24} + \frac{5}{1337}\sqrt{6690}e^{56}$	$(-\frac{194}{1337}, \frac{134}{1337}, \frac{268}{1337}, -\frac{89}{1337}, \frac{297}{1337}, -\frac{36}{191}, -\frac{60}{1337}, \frac{74}{1337}, \frac{45}{1337})$ $+ \frac{1}{1337}\sqrt{287670}e^3 \otimes e_9 + \frac{2}{1337}\sqrt{2230}e^2 \otimes e_4 + \frac{3}{1337}\sqrt{27206}e^5 \otimes e_8$	{126789, 14689, 259, 4579}
93:23	$0, 0, 0, 0, 0, 0, \frac{6}{4589}\sqrt{129898}e^{12}, \frac{72}{4589}\sqrt{214}e^{13},$ $\frac{24}{4589}\sqrt{1819}e^{24} + \frac{6}{4589}\sqrt{2782}e^{56}$	$(\frac{994}{4589}, -\frac{1136}{4589}, -\frac{932}{4589}, \frac{1784}{4589}, \frac{99}{353}, -\frac{639}{4589}, -\frac{142}{4589}, \frac{62}{4589}, \frac{648}{4589})$ $+ \frac{1926}{4589}e^5 \otimes e_6 + \frac{6}{4589}\sqrt{167990}e^1 \otimes e_3 + \frac{6}{4589}\sqrt{182542}e^4 \otimes e_7$	{23579, 23679, 3459, 3469}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{995070}e^{12}, \frac{1}{1819}\sqrt{271830}e^{13},$ $\frac{3}{1819}\sqrt{52890}e^{24} + \frac{6}{1819}\sqrt{17015}e^{56}$	$(-\frac{26}{107}, \frac{436}{1819}, \frac{367}{1819}, -\frac{179}{1819}, \frac{609}{1819}, -\frac{352}{1819}, -\frac{6}{1819}, -\frac{75}{1819}, \frac{257}{1819})$ $+ \frac{31}{1819}\sqrt{1230}e^5 \otimes e_7 + \frac{4}{1819}\sqrt{54735}e^2 \otimes e_4$	{123568, 1256, 13478, 147, 237, 278, 3456, 4568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1457}\sqrt{357962}e^{12}, \frac{4}{1457}\sqrt{5830}e^{13},$ $\frac{4}{1457}\sqrt{2915}e^{24} + \frac{13}{1457}\sqrt{1166}e^{56}$	$(\frac{189}{1457}, -\frac{216}{1457}, -\frac{394}{1457}, \frac{556}{1457}, \frac{378}{1457}, -\frac{38}{1457}, -\frac{27}{1457}, -\frac{205}{1457}, \frac{340}{1457})$ $+ \frac{1}{1457}\sqrt{518870}e^1 \otimes e_3 + \frac{1}{1457}\sqrt{542190}e^4 \otimes e_7 + \frac{8}{1457}\sqrt{7579}e^5 \otimes e_8$	{1248, 178, 236789, 34689}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{10}e^{12}, \frac{10}{49}\sqrt{2}e^{13}, \frac{4}{49}\sqrt{10}e^{24} + \frac{2}{49}\sqrt{30}e^{56}$	$(-\frac{3}{14}, \frac{17}{98}, \frac{11}{49}, -\frac{11}{98}, \frac{6}{49}, -\frac{3}{49}, -\frac{2}{49}, \frac{1}{98}, \frac{3}{49})$ $+ \frac{12}{49}e^5 \otimes e_7 + \frac{2}{49}\sqrt{66}e^2 \otimes e_8 + \frac{4}{49}\sqrt{19}e^3 \otimes e_9$	{123456, 146789, 2679, 3568}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{277}\sqrt{30290}e^{12}, \frac{2}{277}\sqrt{13281}e^{13},$ $\frac{1}{277}\sqrt{57318}e^{24} + \frac{3}{277}\sqrt{1398}e^{56}$	$(-\frac{7}{277}, -\frac{16}{277}, -\frac{72}{277}, \frac{154}{277}, \frac{69}{277}, \frac{69}{277}, -\frac{23}{277}, -\frac{79}{277}, \frac{138}{277})$ $+ \frac{1}{277}\sqrt{109510}e^4 \otimes e_8$	{123457, 1256789, 12789, 134569, 1349, 158, 235689, 2389, 245, 3578, 45679, 479}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{2267}\sqrt{82082}e^{12}, \frac{22}{2267}\sqrt{390}e^{13},$ $\frac{1}{2267}\sqrt{19734}e^{24} + \frac{1}{2267}\sqrt{157586}e^{56}$	$(\frac{98}{2267}, -\frac{166}{2267}, \frac{75}{2267}, \frac{121}{2267}, \frac{316}{2267}, -\frac{361}{2267}, -\frac{68}{2267}, \frac{173}{2267}, -\frac{45}{2267})$ $+ \frac{1}{2267}\sqrt{155870}e^3 \otimes e_7 + \frac{1}{2267}\sqrt{193622}e^5 \otimes e_8 + \frac{3}{2267}\sqrt{27170}e^1 \otimes e_9$	{123456, 178, 2579, 34689}
93:23	$0, 0, 0, 0, 0, 0, \frac{23}{221}\sqrt{2}e^{12}, \frac{1}{221}\sqrt{7130}e^{13}, \frac{2}{221}\sqrt{1633}e^{24} + \frac{1}{221}\sqrt{1794}e^{56}$	$(-\frac{87}{442}, \frac{109}{442}, \frac{4}{17}, -\frac{97}{442}, \frac{3}{221}, \frac{3}{221}, \frac{11}{221}, \frac{1}{26}, \frac{6}{221})$ $+ \frac{1}{221}\sqrt{8418}e^2 \otimes e_8 + \frac{2}{221}\sqrt{2461}e^3 \otimes e_9$	{1234567, 12347, 14589, 259, 35678, 378}
93:23	$0, 0, 0, 0, 0, 0, \frac{24}{749}\sqrt{113}e^{12}, \frac{4}{749}\sqrt{3955}e^{13},$ $\frac{2}{749}\sqrt{7797}e^{24} + \frac{6}{749}\sqrt{1582}e^{56}$	$(-\frac{221}{749}, \frac{173}{749}, \frac{178}{749}, -\frac{53}{749}, \frac{183}{749}, -\frac{9}{107}, -\frac{48}{749}, -\frac{43}{749}, \frac{120}{749})$ $+ \frac{2}{749}\sqrt{20905}e^2 \otimes e_4 + \frac{2}{749}\sqrt{27798}e^5 \otimes e_8 + \frac{2}{749}\sqrt{28815}e^3 \otimes e_7$	{12356, 1478, 2567, 348}
93:23	$0, 0, 0, 0, 0, 0, \frac{3}{1813}\sqrt{129898}e^{12}, \frac{36}{1813}\sqrt{214}e^{13},$ $\frac{12}{1813}\sqrt{1819}e^{24} + \frac{3}{1813}\sqrt{2782}e^{56}$	$(\frac{71}{259}, -\frac{568}{1813}, -\frac{466}{1813}, \frac{892}{1813}, \frac{162}{1813}, \frac{162}{1813}, -\frac{71}{1813}, \frac{31}{1813}, \frac{324}{1813})$ $+ \frac{3}{1813}\sqrt{167990}e^1 \otimes e_3 + \frac{3}{1813}\sqrt{182542}e^4 \otimes e_7$	{124, 12456, 1567, 17, 23579, 3459}
93:23	$0, 0, 0, 0, 0, 0, \frac{11}{1615}\sqrt{3486}e^{12}, \frac{11}{1615}\sqrt{102}e^{13},$ $\frac{33}{1615}\sqrt{74}e^{24} + \frac{66}{1615}\sqrt{47}e^{56}$	$(\frac{6}{323}, \frac{12}{323}, -\frac{333}{1615}, \frac{233}{1615}, \frac{453}{1615}, -\frac{32}{323}, \frac{18}{323}, -\frac{303}{1615}, \frac{293}{1615})$ $+ \frac{11}{1615}\sqrt{3678}e^5 \otimes e_7 + \frac{132}{1615}\sqrt{17}e^2 \otimes e_8 + \frac{44}{1615}\sqrt{177}e^1 \otimes e_3$	{12459, 1256, 234679, 237}
93:23	$0, 0, 0, 0, 0, 0, \frac{4}{111}\sqrt{89}e^{12}, \frac{2}{111}\sqrt{534}e^{13}, \frac{4}{111}\sqrt{89}e^{24} + \frac{2}{111}\sqrt{534}e^{56}$	$(\frac{4}{37}, \frac{14}{111}, \frac{16}{111}, \frac{6}{37}, \frac{35}{37}, -\frac{73}{111}, \frac{26}{111}, \frac{28}{111}, \frac{32}{111})$ $+ \frac{178}{111}e^5 \otimes e_6$	{12359, 12369, 12589, 12689, 134579, 134679, 145789, 146789, 235789, 236789, 2579, 2679, 34589, 34689, 459, 469}
93:23	$0, 0, 0, 0, 0, 0, \frac{15}{1423}\sqrt{134}e^{12}, \frac{9}{1423}\sqrt{4690}e^{13},$ $\frac{6}{1423}\sqrt{14338}e^{24} + \frac{6}{1423}\sqrt{5494}e^{56}$	$(-\frac{125}{1423}, -\frac{238}{1423}, \frac{605}{1423}, \frac{240}{1423}, \frac{1}{1423}, \frac{1}{1423}, -\frac{363}{1423}, \frac{480}{1423}, \frac{2}{1423})$ $+ \frac{3}{1423}\sqrt{101170}e^3 \otimes e_9 + \frac{3}{1423}\sqrt{67402}e^4 \otimes e_7$	{125789, 14589, 234568, 2348, 35678, 378}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{335}e^{12}, \frac{1}{73}\sqrt{2814}e^{13}, \frac{2}{73}\sqrt{737}e^{24} + \frac{1}{73}\sqrt{402}e^{56}$	$(-\frac{18}{73}, \frac{41}{73}, -\frac{8}{73}, -\frac{9}{73}, \frac{16}{73}, \frac{16}{73}, \frac{23}{73}, -\frac{26}{73}, \frac{32}{73})$ $+ \frac{2}{73}\sqrt{2010}e^2 \otimes e_8$	{12345, 123569, 1239, 1456789, 14789, 1578, 2457, 25679, 279, 345689, 3489, 358}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1897}\sqrt{489578}e^{12}, \frac{2}{1897}\sqrt{82041}e^{13},$ $\frac{10}{1897}\sqrt{7337}e^{24} + \frac{4}{1897}\sqrt{10005}e^{56}$	$(-\frac{423}{1897}, \frac{188}{1897}, -\frac{8}{271}, \frac{432}{1897}, \frac{310}{1897}, \frac{310}{1897}, -\frac{235}{1897}, -\frac{479}{1897}, \frac{620}{1897})$ $+ \frac{12}{1897}\sqrt{7337}e^4 \otimes e_7 + \frac{1}{1897}\sqrt{1220610}e^2 \otimes e_8$	{12345, 1578, 25679, 279, 345689, 3489}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{3625}\sqrt{36782}e^{12}, \frac{4}{3625}\sqrt{97854}e^{13},$ $\frac{2}{3625}\sqrt{360186}e^{24} + \frac{6}{3625}\sqrt{10410}e^{56}$	$(\frac{826}{3625}, -\frac{596}{3625}, -\frac{792}{3625}, \frac{728}{3625}, \frac{413}{3625}, -\frac{281}{3625}, \frac{46}{725}, \frac{34}{3625}, \frac{132}{3625})$ $+ \frac{12}{3625}\sqrt{14574}e^1 \otimes e_9 + \frac{2}{3625}\sqrt{496210}e^4 \otimes e_8 + \frac{694}{3625}e^5 \otimes e_6$	{23589, 23689, 4579, 4679}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1639}\sqrt{36782}e^{12}, \frac{2}{1639}\sqrt{97854}e^{13},$ $\frac{1}{1639}\sqrt{360186}e^{24} + \frac{3}{1639}\sqrt{10410}e^{56}$	$(\frac{413}{1639}, -\frac{2}{11}, -\frac{36}{149}, \frac{364}{1639}, \frac{3}{149}, \frac{3}{149}, \frac{115}{1639}, \frac{17}{1639}, \frac{6}{149})$ $+ \frac{1}{1639}\sqrt{496210}e^4 \otimes e_8 + \frac{6}{1639}\sqrt{14574}e^1 \otimes e_9$	{1234567, 12347, 1568, 18, 23589, 4579}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{187}\sqrt{247}e^{12}, \frac{2}{187}\sqrt{1102}e^{13}, \frac{2}{187}\sqrt{247}e^{24} + \frac{2}{187}\sqrt{1102}e^{56}$	$(\frac{39}{187}, -\frac{6}{187}, -\frac{38}{187}, \frac{7}{187}, \frac{39}{187}, -\frac{38}{187}, \frac{3}{17}, \frac{1}{187}, \frac{1}{187})$ $+ \frac{2}{187}\sqrt{1463}e^5 \otimes e_8 + \frac{6}{187}\sqrt{190}e^1 \otimes e_9$	{123456, 1248, 13567, 178, 236789, 2579, 34689, 459}
93:23	$0, 0, 0, 0, 0, 0, \frac{2}{1893}\sqrt{12395}e^{12}, \frac{2}{1893}\sqrt{10921}e^{13},$ $\frac{2}{1893}\sqrt{2211}e^{24} + \frac{1}{1893}\sqrt{87502}e^{56}$	$(\frac{43}{631}, -\frac{154}{1893}, -\frac{176}{1893}, \frac{72}{631}, \frac{14}{631}, \frac{20}{1893}, -\frac{25}{1893}, -\frac{47}{1893}, \frac{62}{1893})$ $+ \frac{1}{1893}\sqrt{70082}e^6 \otimes e_8 + \frac{1}{1893}\sqrt{73030}e^5 \otimes e_7 + \frac{5}{631}\sqrt{402}e^1 \otimes e_9$	{12356, 1478, 24679, 3589}
93:23	$0, 0, 0, 0, 0, 0, \frac{1}{1265}\sqrt{167774}e^{12}, \frac{1}{1265}\sqrt{49766}e^{13},$ $\frac{1}{1265}\sqrt{76586}e^{24} + \frac{6}{1265}\sqrt{2235}e^{56}$	$(\frac{2}{115}, \frac{112}{1265}, -\frac{127}{1265}, -\frac{37}{1265}, \frac{283}{1265}, -\frac{208}{1265}, \frac{134}{1265}, -\frac{21}{253}, \frac{15}{253})$ $+ \frac{1}{1265}\sqrt{146318}e^5 \otimes e_7 + \frac{2}{1265}\sqrt{26522}e^1 \otimes e_3 + \frac{2}{1265}\sqrt{26522}e^2 \otimes e_4$	{1256, 147, 237, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:23	$0, 0, 0, 0, 0, 0, \frac{18}{4045}\sqrt{8270}e^{12}, \frac{28}{4045}\sqrt{1654}e^{13},$ $\frac{12}{4045}\sqrt{9097}e^{24} + \frac{4}{4045}\sqrt{2481}e^{56}$	$(\frac{78}{809}, \frac{156}{809}, -\frac{1264}{4045}, -\frac{36}{4045}, \frac{1199}{4045}, -\frac{91}{809}, \frac{234}{809}, -\frac{874}{4045}, \frac{744}{4045})$ $+ \frac{1654}{4045}e^5 \otimes e_6 + \frac{2}{4045}\sqrt{1344702}e^2 \otimes e_8 + \frac{8}{4045}\sqrt{63679}e^1 \otimes e_3$	{1578, 1678, 358, 368}
93:24	$0, 0, 0, 0, 0, 0, \frac{30}{1561}\sqrt{659}e^{12}, \frac{1}{1561}\sqrt{430986}e^{34},$ $\frac{8}{1561}\sqrt{3295}e^{15} + \frac{1}{1561}\sqrt{67218}e^{26}$	$(\frac{53}{223}, -\frac{318}{1561}, -\frac{144}{1561}, -\frac{144}{1561}, \frac{23}{1561}, \frac{712}{1561}, \frac{53}{1561}, -\frac{288}{1561}, \frac{394}{1561})$ $+ \frac{2}{1561}\sqrt{191110}e^6 \otimes e_7 + \frac{2}{1561}\sqrt{262941}e^1 \otimes e_8$	{123456, 1256, 13457, 157, 235789, 35689}
93:24	$0, 0, 0, 0, 0, 0, \frac{66}{439}\sqrt{10}e^{12}, \frac{22}{439}\sqrt{106}e^{34}, \frac{66}{439}\sqrt{10}e^{15} + \frac{22}{439}\sqrt{42}e^{26}$	$(\frac{138}{439}, \frac{6}{439}, \frac{69}{439}, -\frac{173}{439}, -\frac{36}{439}, \frac{96}{439}, \frac{144}{439}, -\frac{104}{439}, \frac{102}{439})$ $+ \frac{242}{439}e^3 \otimes e_4 + \frac{44}{439}\sqrt{66}e^1 \otimes e_8$	{2356789, 2378, 2456789, 2478, 3589, 368, 4589, 468}
93:24	$0, 0, 0, 0, 0, 0, \frac{60}{3781}\sqrt{659}e^{12}, \frac{2}{3781}\sqrt{430986}e^{34},$ $\frac{16}{3781}\sqrt{3295}e^{15} + \frac{2}{3781}\sqrt{67218}e^{26}$	$(\frac{742}{3781}, -\frac{636}{3781}, \frac{371}{3781}, -\frac{947}{3781}, \frac{46}{3781}, \frac{1424}{3781}, \frac{106}{3781}, -\frac{576}{3781}, \frac{788}{3781})$ $+ \frac{1318}{3781}e^3 \otimes e_4 + \frac{4}{3781}\sqrt{191110}e^6 \otimes e_7 + \frac{4}{3781}\sqrt{262941}e^1 \otimes e_8$	{235789, 245789, 35689, 45689}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{1283}\sqrt{555}e^{12}, \frac{2}{3849}\sqrt{237355}e^{34},$ $\frac{2}{1283}\sqrt{19055}e^{15} + \frac{2}{3849}\sqrt{52170}e^{26}$	$(-\frac{195}{1283}, \frac{20}{1283}, -\frac{155}{3849}, \frac{463}{3849}, \frac{226}{3849}, \frac{11}{1283}, -\frac{175}{1283}, \frac{308}{3849}, \frac{31}{1283})$ $+ \frac{10}{3849}\sqrt{9546}e^5 \otimes e_8 + \frac{2}{1283}\sqrt{29415}e^4 \otimes e_9 + \frac{4}{3849}\sqrt{150405}e^3 \otimes e_7$	{1345, 13689, 478, 5679}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{156}\sqrt{16986}e^{12}, \frac{1}{156}\sqrt{3874}e^{34},$ $\frac{1}{156}\sqrt{2235}e^{15} + \frac{1}{156}\sqrt{2235}e^{26}$	$(-\frac{15}{104}, -\frac{15}{104}, \frac{2}{3}, -\frac{25}{156}, \frac{23}{104}, \frac{23}{104}, -\frac{15}{52}, \frac{79}{156}, \frac{1}{13})$ $+ \frac{1}{156}\sqrt{38442}e^3 \otimes e_7$	{1234, 1234569, 1235689, 1238, 145789, 14678, 1579, 167, 3456, 349, 3568, 389}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{1165}e^{12}, \frac{1}{579}\sqrt{89938}e^{34},$ $\frac{2}{193}\sqrt{1165}e^{15} + \frac{1}{579}\sqrt{18174}e^{26}$	$(-\frac{39}{193}, \frac{4}{193}, \frac{128}{579}, -\frac{130}{579}, \frac{77}{193}, \frac{34}{193}, -\frac{35}{193}, -\frac{2}{579}, \frac{38}{193})$ $+ \frac{2}{579}\sqrt{30057}e^3 \otimes e_7 + \frac{2}{579}\sqrt{30057}e^5 \otimes e_8$	{12345, 123689, 14789, 1567, 2478, 25679, 3459, 368}
93:24	$0, 0, 0, 0, 0, 0, \frac{3}{311}\sqrt{946}e^{12}, \frac{6}{311}\sqrt{253}e^{34}, \frac{33}{311}\sqrt{2}e^{15} + \frac{6}{311}\sqrt{341}e^{26}$	$(\frac{46}{311}, -\frac{76}{311}, \frac{92}{311}, -\frac{17}{311}, -\frac{53}{311}, \frac{69}{311}, -\frac{30}{311}, \frac{75}{311}, -\frac{7}{311})$ $+ \frac{3}{311}\sqrt{1562}e^1 \otimes e_5 + \frac{3}{311}\sqrt{2398}e^3 \otimes e_9 + \frac{6}{311}\sqrt{561}e^6 \otimes e_7$	{245789, 2579, 45689, 569}
93:24	$0, 0, 0, 0, 0, 0, \frac{4}{1099}\sqrt{2370}e^{12}, \frac{20}{1099}\sqrt{237}e^{34},$ $\frac{4}{1099}\sqrt{4345}e^{15} + \frac{4}{1099}\sqrt{2370}e^{26}$	$(\frac{23}{157}, -\frac{138}{1099}, \frac{201}{1099}, -\frac{198}{1099}, -\frac{118}{1099}, \frac{181}{1099}, \frac{23}{1099}, \frac{3}{1099}, \frac{43}{1099})$ $+ \frac{2}{1099}\sqrt{15721}e^6 \otimes e_7 + \frac{2}{1099}\sqrt{31521}e^1 \otimes e_8 + \frac{2}{1099}\sqrt{31521}e^3 \otimes e_9$	{123456, 13457, 245789, 45689}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{2001}\sqrt{1355270}e^{12}, \frac{1}{2001}\sqrt{132470}e^{34},$ $\frac{2}{2001}\sqrt{121261}e^{15} + \frac{2}{2001}\sqrt{124318}e^{26}$	$(\frac{610}{2001}, -\frac{238}{667}, \frac{130}{2001}, \frac{130}{2001}, -\frac{409}{2001}, \frac{305}{667}, -\frac{104}{2001}, \frac{260}{2001}, \frac{67}{667})$ $+ \frac{2}{2001}\sqrt{428999}e^1 \otimes e_5 + \frac{2}{2001}\sqrt{491158}e^6 \otimes e_7$	{12346, 12368, 126, 1347, 1378, 17}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{151}\sqrt{21230}e^{12}, \frac{3}{151}\sqrt{386}e^{34},$ $\frac{1}{151}\sqrt{2702}e^{15} + \frac{1}{151}\sqrt{2702}e^{26}$	$(\frac{103}{151}, -\frac{21}{151}, \frac{18}{151}, \frac{18}{151}, -\frac{90}{151}, \frac{34}{151}, \frac{82}{151}, \frac{36}{151}, \frac{13}{151})$ $+ \frac{2}{151}\sqrt{11966}e^1 \otimes e_5$	{12, 1234, 1238, 13467, 13678, 167, 23457, 23578, 257, 3456, 3568, 56}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{4005}\sqrt{350390}e^{12}, \frac{2}{4005}\sqrt{607974}e^{34},$ $\frac{28}{4005}\sqrt{947}e^{15} + \frac{4}{4005}\sqrt{138262}e^{26}$	$(\frac{1324}{4005}, -\frac{196}{1335}, \frac{671}{4005}, -\frac{1223}{4005}, -\frac{38}{267}, \frac{1342}{4005}, \frac{736}{4005}, -\frac{184}{1335}, \frac{754}{4005})$ $+ \frac{1894}{4005}e^3 \otimes e_4 + \frac{4}{4005}\sqrt{268001}e^1 \otimes e_5 + \frac{4}{4005}\sqrt{369330}e^6 \otimes e_8$	{1378, 1478, 358, 458}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{1561}\sqrt{67218}e^{12}, \frac{1}{1561}\sqrt{430986}e^{34},$ $\frac{30}{1561}\sqrt{659}e^{15} + \frac{8}{1561}\sqrt{3295}e^{26}$	$(-\frac{318}{1561}, -\frac{4}{223}, \frac{654}{1561}, -\frac{144}{1561}, \frac{313}{1561}, \frac{23}{1561}, -\frac{346}{1561}, \frac{510}{1561}, -\frac{5}{1561})$ $+ \frac{2}{1561}\sqrt{191110}e^5 \otimes e_7 + \frac{2}{1561}\sqrt{262941}e^3 \otimes e_9$	{123456, 123568, 146789, 1679, 23467, 23678, 45689, 569}
93:24	$0, 0, 0, 0, 0, 0, \frac{11}{1861}\sqrt{7230}e^{12}, \frac{3}{1861}\sqrt{64106}e^{34},$ $\frac{1}{1861}\sqrt{328242}e^{15} + \frac{3}{1861}\sqrt{43862}e^{26}$	$(\frac{483}{1861}, \frac{319}{1861}, -\frac{202}{1861}, -\frac{202}{1861}, -\frac{240}{1861}, -\frac{76}{1861}, \frac{802}{1861}, -\frac{404}{1861}, \frac{243}{1861})$ $+ \frac{20}{1861}\sqrt{3615}e^2 \otimes e_8 + \frac{4}{1861}\sqrt{60009}e^1 \otimes e_5$	{12346, 126, 1378, 234567, 2567, 358}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{2073}\sqrt{127995}e^{12}, \frac{1}{2073}\sqrt{512722}e^{34},$ $\frac{14}{691}\sqrt{106}e^{15} + \frac{1}{2073}\sqrt{184758}e^{26}$	$(\frac{85}{691}, -\frac{82}{691}, \frac{380}{2073}, -\frac{496}{2073}, -\frac{19}{691}, \frac{148}{691}, \frac{3}{691}, -\frac{116}{2073}, \frac{66}{691})$ $+ \frac{2}{2073}\sqrt{162498}e^3 \otimes e_7 + \frac{2}{2073}\sqrt{185871}e^1 \otimes e_8$	{12345, 123469, 1567, 179, 2456789, 2478, 3589, 368}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{166}\sqrt{3333}e^{12}, \frac{1}{166}\sqrt{6666}e^{34},$ $\frac{1}{166}\sqrt{3333}e^{15} + \frac{1}{83}\sqrt{1111}e^{26}$	$(-\frac{6}{83}, -\frac{35}{332}, -\frac{6}{83}, -\frac{6}{83}, \frac{143}{332}, \frac{77}{166}, -\frac{59}{332}, -\frac{12}{83}, \frac{119}{332})$ $+ \frac{1}{166}\sqrt{13534}e^5 \otimes e_7 + \frac{1}{83}\sqrt{3939}e^6 \otimes e_8$	{123456, 1256, 134679, 1679, 23467, 267, 34569, 569}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{154}\sqrt{14529}e^{12}, \frac{3}{154}\sqrt{334}e^{34},$ $\frac{1}{154}\sqrt{14529}e^{15} + \frac{1}{77}\sqrt{1670}e^{26}$	$(-\frac{30}{77}, \frac{1}{44}, \frac{9}{77}, \frac{9}{77}, \frac{221}{308}, \frac{47}{154}, -\frac{113}{308}, \frac{18}{77}, \frac{101}{308})$ $+ \frac{1}{154}\sqrt{42418}e^5 \otimes e_7$	{12345, 12358, 125, 13479, 13789, 179, 2347, 2378, 27, 3459, 3589, 59}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:24	$0, 0, 0, 0, 0, 0, \frac{3}{17}\sqrt{13}e^{12}, \frac{3}{17}e^{34}, \frac{3}{34}\sqrt{10}e^{15} + \frac{3}{34}\sqrt{10}e^{26}$	$(\frac{4}{17}, \frac{4}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{5}{17}, -\frac{5}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{1}{17})$ $+ \frac{3}{34}\sqrt{62}e^1 \otimes e_5 - \frac{3}{34}\sqrt{62}e^2 \otimes e_6$	{12, 1234, 1238, 13467, 13678, 167, 3456, 3568, 56}
93:24	$0, 0, 0, 0, 0, 0, \frac{3}{17}\sqrt{13}e^{12}, \frac{3}{17}e^{34}, \frac{3}{34}\sqrt{10}e^{15} + \frac{3}{34}\sqrt{10}e^{26}$	$(\frac{4}{17}, \frac{4}{17}, \frac{1}{17}, \frac{1}{17}, -\frac{5}{17}, -\frac{5}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{1}{17})$ $+ \frac{3}{34}\sqrt{62}e^1 \otimes e_5 + \frac{3}{34}\sqrt{62}e^2 \otimes e_6$	{12, 1234, 1238, 13467, 13678, 167, 3456, 3568, 56}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{5021}\sqrt{1355270}e^{12}, \frac{2}{5021}\sqrt{132470}e^{34},$ $\frac{4}{5021}\sqrt{121261}e^{15} + \frac{4}{5021}\sqrt{124318}e^{26}$	$(\frac{1220}{5021}, -\frac{1428}{5021}, \frac{1279}{5021}, -\frac{759}{5021}, \frac{818}{5021}, \frac{1830}{5021}, \frac{208}{5021}, \frac{520}{5021}, \frac{402}{5021})$ $+ \frac{2038}{5021}e^3 \otimes e_4 + \frac{4}{5021}\sqrt{428999}e^1 \otimes e_5 + \frac{4}{5021}\sqrt{491158}e^6 \otimes e_7$	{12368, 12468, 1378, 1478}
93:24	$0, 0, 0, 0, 0, 0, \frac{34}{5033}\sqrt{1582}e^{12}, \frac{136}{719}e^{34}, \frac{34}{5033}\sqrt{1042}e^{15} + \frac{34}{5033}\sqrt{755}e^{26}$	$(-\frac{272}{5033}, \frac{612}{5033}, -\frac{425}{5033}, -\frac{425}{5033}, \frac{918}{5033}, \frac{34}{5033}, \frac{340}{5033}, -\frac{850}{5033}, \frac{646}{5033})$ $+ \frac{204}{5033}\sqrt{30}e^2 \otimes e_6 + \frac{34}{5033}\sqrt{1601}e^5 \otimes e_7 + \frac{34}{5033}\sqrt{1993}e^1 \otimes e_8$	{12345, 125, 2378}
93:24	$0, 0, 0, 0, 0, 0, \frac{22}{151}\sqrt{6}e^{12}, \frac{22}{151}\sqrt{10}e^{34}, \frac{22}{151}\sqrt{6}e^{15} + \frac{22}{151}\sqrt{6}e^{26}$	$(\frac{18}{151}, \frac{18}{151}, \frac{141}{151}, -\frac{101}{151}, \frac{24}{151}, \frac{24}{151}, \frac{36}{151}, \frac{40}{151}, \frac{42}{151})$ $+ \frac{242}{151}e^3 \otimes e_4$	{123568, 12389, 124568, 12489, 13578, 136789, 14578, 146789, 35689, 38, 45689, 48}
93:24	$0, 0, 0, 0, 0, 0, \frac{11}{591}\sqrt{78}e^{12}, \frac{11}{591}\sqrt{394}e^{34}, \frac{11}{197}\sqrt{38}e^{15} + \frac{11}{591}\sqrt{78}e^{26}$	$(\frac{39}{197}, -\frac{5}{197}, \frac{130}{591}, -\frac{134}{591}, -\frac{36}{197}, \frac{8}{197}, \frac{34}{197}, -\frac{4}{591}, \frac{3}{197})$ $+ \frac{44}{591}\sqrt{33}e^1 \otimes e_8 + \frac{44}{591}\sqrt{33}e^3 \otimes e_9$	{123456, 129, 13457, 1679, 23678, 245789, 38, 45689}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{384}\sqrt{9570}e^{12}, \frac{1}{24}\sqrt{145}e^{34}, \frac{1}{128}\sqrt{1595}e^{15} + \frac{1}{128}\sqrt{1595}e^{26}$	$(-\frac{25}{256}, -\frac{25}{256}, \frac{35}{192}, \frac{103}{384}, -\frac{3}{256}, -\frac{3}{256}, -\frac{25}{128}, \frac{173}{384}, -\frac{7}{64})$ $+ \frac{1}{128}\sqrt{4930}e^3 \otimes e_7 + \frac{1}{192}\sqrt{13485}e^4 \otimes e_9$	{123456, 12389, 14578, 1679, 34, 35689}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{1529}\sqrt{350390}e^{12}, \frac{1}{1529}\sqrt{607974}e^{34},$ $\frac{14}{1529}\sqrt{947}e^{15} + \frac{2}{1529}\sqrt{138262}e^{26}$	$(\frac{662}{1529}, -\frac{294}{1529}, -\frac{138}{1529}, -\frac{138}{1529}, -\frac{285}{1529}, \frac{61}{1529}, \frac{368}{1529}, -\frac{276}{1529}, \frac{377}{1529})$ $+ \frac{2}{1529}\sqrt{268001}e^1 \otimes e_5 + \frac{2}{1529}\sqrt{369330}e^6 \otimes e_8$	{12346, 126, 1378, 234567, 2567, 358}
93:24	$0, 0, 0, 0, 0, 0, \frac{4}{3873}\sqrt{117070}e^{12}, \frac{44}{3873}\sqrt{1018}e^{34},$ $\frac{2}{3873}\sqrt{148119}e^{15} + \frac{2}{3873}\sqrt{139466}e^{26}$	$(\frac{661}{3873}, -\frac{291}{1291}, \frac{806}{3873}, -\frac{647}{3873}, \frac{119}{1291}, \frac{1177}{3873}, \frac{212}{3873}, \frac{53}{1291}, \frac{304}{3873})$ $+ \frac{2}{3873}\sqrt{493221}e^1 \otimes e_5 + \frac{2}{3873}\sqrt{575170}e^6 \otimes e_8 + \frac{2}{3873}\sqrt{739577}e^3 \otimes e_7$	{12346, 1478, 2567, 358}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{512}\sqrt{84630}e^{12}, \frac{1}{256}\sqrt{11067}e^{34},$ $\frac{1}{512}\sqrt{15841}e^{15} + \frac{1}{512}\sqrt{15841}e^{26}$	$(\frac{193}{1024}, -\frac{219}{1024}, \frac{51}{128}, -\frac{53}{512}, -\frac{241}{1024}, \frac{171}{1024}, -\frac{13}{512}, \frac{151}{512}, -\frac{3}{64})$ $+ \frac{1}{256}\sqrt{22351}e^1 \otimes e_5 + \frac{1}{512}\sqrt{111538}e^3 \otimes e_7$	{1234, 1238, 14678, 167, 24578, 257, 3456, 3568}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{3957}\sqrt{73279}e^{12}, \frac{4}{3957}\sqrt{31369}e^{34},$ $\frac{2}{3957}\sqrt{146685}e^{15} + \frac{2}{3957}\sqrt{10795}e^{26}$	$(\frac{76}{3957}, -\frac{57}{1319}, \frac{163}{1319}, -\frac{667}{3957}, \frac{53}{1319}, \frac{406}{3957}, -\frac{95}{3957}, -\frac{178}{3957}, \frac{235}{3957})$ $+ \frac{2}{3957}\sqrt{126111}e^5 \otimes e_7 + \frac{2}{3957}\sqrt{188849}e^1 \otimes e_8 + \frac{68}{3957}\sqrt{127}e^3 \otimes e_9$	{12345, 179, 2378, 4589}
93:24	$0, 0, 0, 0, 0, 0, \frac{4}{523}\sqrt{2242}e^{12}, \frac{4}{523}\sqrt{1534}e^{34},$ $\frac{4}{523}\sqrt{2242}e^{15} + \frac{2}{523}\sqrt{5015}e^{26}$	$(\frac{8}{523}, -\frac{18}{523}, -\frac{55}{523}, -\frac{55}{523}, \frac{108}{523}, \frac{134}{523}, -\frac{10}{523}, -\frac{110}{523}, \frac{116}{523})$ $+ \frac{2}{523}\sqrt{12449}e^5 \otimes e_7 + \frac{2}{523}\sqrt{15517}e^1 \otimes e_8$	{12345, 125, 13479, 179, 2378, 3589}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{2242}e^{12}, \frac{2}{291}\sqrt{1534}e^{34},$ $\frac{2}{291}\sqrt{2242}e^{15} + \frac{1}{291}\sqrt{5015}e^{26}$	$(\frac{4}{291}, -\frac{3}{97}, \frac{2}{291}, -\frac{19}{97}, \frac{18}{97}, \frac{67}{291}, -\frac{5}{291}, -\frac{55}{291}, \frac{58}{291})$ $+ \frac{1}{291}\sqrt{12449}e^5 \otimes e_7 + \frac{1}{291}\sqrt{15517}e^1 \otimes e_8 + \frac{59}{291}e^3 \otimes e_4$	{2378, 2478, 3589, 4589}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{495}\sqrt{21230}e^{12}, \frac{2}{165}\sqrt{386}e^{34},$ $\frac{2}{495}\sqrt{2702}e^{15} + \frac{2}{495}\sqrt{2702}e^{26}$	$(\frac{206}{495}, -\frac{14}{165}, \frac{229}{495}, -\frac{157}{495}, -\frac{4}{11}, \frac{68}{495}, \frac{164}{495}, \frac{8}{55}, \frac{26}{495})$ $+ \frac{386}{495}e^3 \otimes e_4 + \frac{4}{495}\sqrt{11966}e^1 \otimes e_5$	{1238, 1248, 13678, 14678, 23578, 24578, 3568, 4568}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{156}\sqrt{2235}e^{12}, \frac{1}{78}\sqrt{3874}e^{34},$ $\frac{1}{156}\sqrt{16986}e^{15} + \frac{1}{156}\sqrt{2235}e^{26}$	$(-\frac{15}{104}, \frac{7}{26}, -\frac{25}{156}, -\frac{25}{156}, \frac{33}{52}, \frac{23}{104}, \frac{1}{8}, -\frac{25}{78}, \frac{51}{104})$ $+ \frac{1}{156}\sqrt{38442}e^5 \otimes e_8$	{123457, 1236789, 1257, 13456, 1389, 156, 234569, 238, 2569, 34579, 3678, 579}
93:24	$0, 0, 0, 0, 0, 0, \frac{3}{1579}\sqrt{9734}e^{12}, \frac{6}{1579}\sqrt{7843}e^{34},$ $\frac{6}{1579}\sqrt{2759}e^{15} + \frac{3}{1579}\sqrt{30938}e^{26}$	$(\frac{185}{1579}, -\frac{197}{1579}, \frac{370}{1579}, -\frac{361}{1579}, -\frac{94}{1579}, \frac{288}{1579}, -\frac{12}{1579}, \frac{9}{1579}, \frac{91}{1579})$ $+ \frac{3}{1579}\sqrt{3782}e^1 \otimes e_5 + \frac{3}{1579}\sqrt{45322}e^3 \otimes e_9 + \frac{6}{1579}\sqrt{9951}e^6 \otimes e_8$	{124789, 169, 24589, 5679}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{2073}\sqrt{184758}e^{12}, \frac{1}{2073}\sqrt{512722}e^{34},$ $\frac{2}{2073}\sqrt{127995}e^{15} + \frac{14}{691}\sqrt{106}e^{26}$	$(-\frac{82}{691}, \frac{64}{691}, \frac{506}{2073}, -\frac{496}{2073}, \frac{127}{691}, -\frac{19}{691}, -\frac{18}{2073}, \frac{10}{2073}, \frac{45}{691})$ $+ \frac{2}{2073}\sqrt{162498}e^5 \otimes e_8 + \frac{2}{2073}\sqrt{185871}e^3 \otimes e_9$	{1234567, 124789, 1345, 14689, 2368, 259, 378, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:24	$0, 0, 0, 0, 0, 0, \frac{3}{331}\sqrt{462}e^{12}, \frac{21}{331}\sqrt{66}e^{34}, \frac{3}{331}\sqrt{2310}e^{15} + \frac{3}{331}\sqrt{2310}e^{26}$	$(\frac{77}{331}, -\frac{23}{331}, \frac{154}{331}, -\frac{34}{331}, -\frac{112}{331}, -\frac{12}{331}, \frac{54}{331}, \frac{120}{331}, -\frac{35}{331})$ $+ \frac{30}{331}\sqrt{42}e^1 \otimes e_5 + \frac{6}{331}\sqrt{1974}e^3 \otimes e_9$	{12489, 129, 146789, 1679, 245789, 2579, 45689, 569}
93:24	$0, 0, 0, 0, 0, 0, \frac{11}{159}\sqrt{42}e^{12}, \frac{11}{159}\sqrt{106}e^{34}, \frac{11}{53}\sqrt{10}e^{15} + \frac{11}{53}\sqrt{10}e^{26}$	$(\frac{1}{53}, \frac{1}{53}, \frac{2}{3}, -\frac{26}{159}, -\frac{6}{53}, -\frac{6}{53}, \frac{2}{53}, \frac{80}{159}, -\frac{5}{53})$ $+ \frac{22}{159}\sqrt{66}e^3 \otimes e_9$	{1234567, 1235678, 124789, 1279, 1345, 1358, 14689, 169, 347, 378, 456789, 5679}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{461}\sqrt{2235}e^{12}, \frac{4}{461}\sqrt{3874}e^{34}, \frac{2}{461}\sqrt{16986}e^{15} + \frac{2}{461}\sqrt{2235}e^{26}$	$(-\frac{45}{461}, \frac{84}{461}, \frac{99}{461}, -\frac{199}{461}, \frac{198}{461}, \frac{69}{461}, \frac{39}{461}, -\frac{100}{461}, \frac{153}{461})$ $+ \frac{298}{461}e^3 \otimes e_4 + \frac{2}{461}\sqrt{38442}e^5 \otimes e_8$	{1236789, 1246789, 1389, 1489, 238, 248, 3678, 4678}
93:24	$0, 0, 0, 0, 0, 0, \frac{1}{1591}\sqrt{55722}e^{12}, \frac{6}{1591}\sqrt{6526}e^{34}, \frac{6}{1591}\sqrt{3263}e^{15} + \frac{1}{1591}\sqrt{214354}e^{26}$	$(\frac{18}{1591}, -\frac{175}{1591}, \frac{363}{1591}, -\frac{327}{1591}, \frac{94}{1591}, \frac{287}{1591}, -\frac{157}{1591}, \frac{36}{1591}, \frac{112}{1591})$ $+ \frac{1}{1591}\sqrt{287646}e^6 \otimes e_8 + \frac{1}{1591}\sqrt{93874}e^5 \otimes e_7 + \frac{2}{1591}\sqrt{86595}e^3 \otimes e_9$	{124789, 1358, 24589, 378}
93:24	$0, 0, 0, 0, 0, 0, \frac{2}{475}\sqrt{14529}e^{12}, \frac{6}{475}\sqrt{334}e^{34}, \frac{2}{475}\sqrt{14529}e^{15} + \frac{4}{475}\sqrt{1670}e^{26}$	$(-\frac{24}{95}, \frac{7}{475}, \frac{203}{475}, -\frac{131}{475}, \frac{221}{475}, \frac{94}{475}, -\frac{113}{475}, \frac{72}{475}, \frac{101}{475})$ $+ \frac{2}{475}\sqrt{42418}e^5 \otimes e_7 + \frac{334}{475}e^3 \otimes e_4$	{12358, 12458, 13789, 14789, 2378, 2478, 3589, 4589}
93:24	$0, 0, 0, 0, 0, 0, \frac{11}{53}\sqrt{10}e^{12}, \frac{11}{159}\sqrt{106}e^{34}, \frac{11}{53}\sqrt{10}e^{15} + \frac{11}{159}\sqrt{42}e^{26}$	$(\frac{23}{53}, \frac{1}{53}, -\frac{26}{159}, \frac{26}{159}, -\frac{6}{53}, \frac{16}{53}, \frac{24}{53}, -\frac{52}{159}, \frac{17}{53})$ $+ \frac{22}{159}\sqrt{66}e^1 \otimes e_8$	{12345, 123469, 125, 1269, 134567, 13479, 1567, 179, 2356789, 2378, 3589, 368}
93:25	$0, 0, 0, 0, 0, 0, \frac{1}{22}\sqrt{42}e^{12}, \frac{5}{44}\sqrt{14}e^{34}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{56}$	$(\frac{3}{11}, -\frac{1}{44}, -\frac{7}{22}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{44}, \frac{1}{4}, -\frac{1}{22}, -\frac{1}{22})$ $+ \frac{1}{44}\sqrt{546}e^1 \otimes e_8 + \frac{1}{44}\sqrt{546}e^4 \otimes e_9$	{1234, 123456, 1259, 134567, 1347, 1579, 235789, 245678, 2478, 3589, 4568, 48}
93:25	$0, 0, 0, 0, 0, 0, \frac{1}{22}\sqrt{42}e^{12}, \frac{5}{44}\sqrt{14}e^{34}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{56}$	$(\frac{3}{11}, -\frac{1}{44}, -\frac{7}{22}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{44}, \frac{1}{4}, -\frac{1}{22}, -\frac{1}{22})$ $+ \frac{1}{44}\sqrt{546}e^1 \otimes e_8 - \frac{1}{44}\sqrt{546}e^4 \otimes e_9$	{1234, 123456, 1259, 134567, 1347, 1579, 235789, 245678, 2478, 3589, 4568, 48}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{19}\sqrt{5}e^{12}, \frac{4}{19}\sqrt{5}e^{34}, \frac{8}{19}\sqrt{6}e^{13} + \frac{4}{19}\sqrt{5}e^{56}$	$(\frac{2}{3}, -\frac{34}{57}, -\frac{10}{57}, \frac{14}{57}, \frac{14}{57}, \frac{14}{57}, \frac{4}{57}, \frac{4}{57}, \frac{28}{57})$ $+ \frac{16}{19}\sqrt{3}e^1 \otimes e_2$	{13458, 135, 14569, 149, 15689, 189, 2345689, 23489, 23569, 239, 245, 258}
93:25	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{530}e^{12}, \frac{1}{41}\sqrt{530}e^{34}, \frac{1}{82}\sqrt{318}e^{13} + \frac{3}{82}\sqrt{53}e^{56}$	$(\frac{37}{164}, -\frac{69}{164}, -\frac{13}{164}, \frac{37}{82}, \frac{3}{41}, \frac{3}{41}, -\frac{8}{41}, \frac{61}{164}, \frac{6}{41})$ $+ \frac{1}{82}\sqrt{4929}e^4 \otimes e_7 + \frac{5}{82}\sqrt{106}e^1 \otimes e_2$	{135789, 1567, 17, 235678, 2378, 2579}
93:25	$0, 0, 0, 0, 0, 0, \frac{22}{337}\sqrt{30}e^{12}, \frac{22}{337}\sqrt{30}e^{34}, \frac{2}{337}\sqrt{858}e^{13} + \frac{2}{337}\sqrt{627}e^{56}$	$(\frac{77}{337}, -\frac{79}{337}, -\frac{53}{337}, \frac{64}{337}, \frac{45}{337}, -\frac{21}{337}, -\frac{2}{337}, \frac{11}{337}, \frac{24}{337})$ $+ \frac{22}{337}\sqrt{39}e^4 \otimes e_7 + \frac{2}{337}\sqrt{4290}e^1 \otimes e_8 + \frac{66}{337}e^5 \otimes e_6$	{123459, 123469, 4589, 4689}
93:25	$0, 0, 0, 0, 0, 0, \frac{8}{27}e^{12}, \frac{8}{27}e^{34}, \frac{8}{189}\sqrt{26}e^{13} + \frac{8}{189}\sqrt{3}e^{56}$	$(\frac{20}{189}, -\frac{32}{189}, \frac{20}{189}, -\frac{32}{189}, \frac{4}{189}, \frac{4}{189}, -\frac{4}{189}, -\frac{4}{189}, \frac{40}{189})$ $+ \frac{32}{189}e^5 \otimes e_6 + \frac{8}{189}\sqrt{78}e^1 \otimes e_8 + \frac{8}{189}\sqrt{78}e^3 \otimes e_7$	{12345, 12346, 24578, 24678}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{217}\sqrt{530}e^{12}, \frac{4}{217}\sqrt{530}e^{34}, \frac{2}{217}\sqrt{318}e^{13} + \frac{6}{217}\sqrt{53}e^{56}$	$(\frac{37}{217}, -\frac{69}{217}, -\frac{13}{217}, \frac{74}{217}, \frac{65}{217}, -\frac{41}{217}, -\frac{32}{217}, \frac{61}{217}, \frac{24}{217})$ $+ \frac{106}{217}e^5 \otimes e_6 + \frac{10}{217}\sqrt{106}e^1 \otimes e_2 + \frac{2}{217}\sqrt{4929}e^4 \otimes e_7$	{135789, 136789, 2579, 2679}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42}e^{12}, \frac{5}{51}\sqrt{14}e^{34}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{56}$	$(\frac{4}{17}, -\frac{1}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{2}{17}, -\frac{8}{51}, \frac{11}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{14}{51}e^5 \otimes e_6 + \frac{1}{51}\sqrt{546}e^1 \otimes e_8 + \frac{1}{51}\sqrt{546}e^4 \otimes e_9$	{1259, 1269, 1579, 1679, 235789, 236789, 3589, 3689}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{51}\sqrt{42}e^{12}, \frac{5}{51}\sqrt{14}e^{34}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{56}$	$(\frac{4}{17}, -\frac{1}{51}, -\frac{14}{51}, \frac{4}{17}, \frac{2}{17}, -\frac{8}{51}, \frac{11}{51}, -\frac{2}{51}, -\frac{2}{51})$ $+ \frac{14}{51}e^5 \otimes e_6 + \frac{1}{51}\sqrt{546}e^1 \otimes e_8 - \frac{1}{51}\sqrt{546}e^4 \otimes e_9$	{1259, 1269, 1579, 1679, 235789, 236789, 3589, 3689}
93:25	$0, 0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{4}{191}\sqrt{66}e^{34}, \frac{8}{191}\sqrt{143}e^{13} + \frac{44}{191}\sqrt{10}e^{56}$	$(-\frac{46}{191}, \frac{136}{191}, \frac{6}{191}, \frac{32}{191}, -\frac{20}{191}, -\frac{20}{191}, \frac{90}{191}, \frac{38}{191}, -\frac{40}{191})$ $+ \frac{8}{191}\sqrt{858}e^2 \otimes e_9$	{1234, 123456, 123568, 1238, 145789, 1579, 245678, 2478, 2567, 27, 3459, 3589}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{751}\sqrt{5502}e^{12}, \frac{8}{751}\sqrt{2227}e^{34}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{2}{751}\sqrt{20305}e^{56}$	$(-\frac{15}{751}, \frac{271}{751}, -\frac{119}{751}, \frac{128}{751}, -\frac{67}{751}, -\frac{67}{751}, \frac{256}{751}, \frac{9}{751}, -\frac{134}{751})$ $+ \frac{4}{751}\sqrt{10218}e^4 \otimes e_9 + \frac{6}{751}\sqrt{5109}e^2 \otimes e_8$	{135789, 145678, 1478, 234567, 2347, 2579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{5502}e^{12}, \frac{4}{441}\sqrt{2227}e^{34}, \frac{1}{441}\sqrt{8515}e^{13} + \frac{1}{441}\sqrt{20305}e^{56}$	$(-\frac{5}{294}, \frac{271}{882}, -\frac{17}{126}, \frac{64}{441}, \frac{32}{441}, -\frac{11}{49}, \frac{128}{441}, \frac{1}{98}, -\frac{67}{441}) + \frac{131}{441}e^5 \otimes e_6 + \frac{1}{147}\sqrt{5109}e^2 \otimes e_8 + \frac{2}{441}\sqrt{10218}e^4 \otimes e_9$	{135789, 136789, 2579, 2679}
93:25	$0, 0, 0, 0, 0, 0, \frac{44}{279}\sqrt{10}e^{12}, \frac{4}{279}\sqrt{66}e^{34}, \frac{8}{279}\sqrt{143}e^{13} + \frac{44}{279}\sqrt{10}e^{56}$	$(-\frac{46}{279}, \frac{136}{279}, \frac{2}{93}, \frac{32}{279}, \frac{68}{279}, -\frac{12}{31}, \frac{10}{31}, \frac{38}{279}, -\frac{40}{279}) + \frac{176}{279}e^5 \otimes e_6 + \frac{8}{279}\sqrt{858}e^2 \otimes e_9$	{145789, 146789, 1579, 1679, 3459, 3469, 3589, 3689}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{455}e^{12}, \frac{2}{161}\sqrt{455}e^{34}, \frac{6}{161}\sqrt{130}e^{13} + \frac{5}{161}\sqrt{39}e^{56}$	$(\frac{2}{23}, -\frac{51}{161}, \frac{4}{23}, -\frac{1}{322}, \frac{107}{322}, -\frac{1}{14}, -\frac{37}{161}, \frac{55}{322}, \frac{6}{23}) + \frac{1}{161}\sqrt{6565}e^1 \otimes e_2 + \frac{1}{161}\sqrt{8385}e^3 \otimes e_7 + \frac{65}{161}e^5 \otimes e_6$	{24578, 24678, 257, 267}
93:25	$0, 0, 0, 0, 0, 0, \frac{8}{751}\sqrt{2227}e^{12}, \frac{2}{751}\sqrt{20305}e^{34}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{4}{751}\sqrt{5502}e^{56}$	$(\frac{193}{751}, -\frac{184}{751}, -\frac{2}{751}, -\frac{67}{751}, \frac{271}{751}, -\frac{80}{751}, \frac{9}{751}, -\frac{69}{751}, \frac{191}{751}) + \frac{4}{751}\sqrt{10218}e^1 \otimes e_8 + \frac{6}{751}\sqrt{5109}e^5 \otimes e_7$	{123459, 1256, 134679, 17, 2378, 246789, 3568, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{10}{257}\sqrt{39}e^{12}, \frac{4}{257}\sqrt{455}e^{34}, \frac{12}{257}\sqrt{130}e^{13} + \frac{4}{257}\sqrt{455}e^{56}$	$(\frac{71}{257}, -\frac{59}{257}, -\frac{73}{257}, \frac{128}{257}, -\frac{1}{257}, -\frac{1}{257}, \frac{12}{257}, \frac{55}{257}, -\frac{2}{257}) + \frac{2}{257}\sqrt{6565}e^1 \otimes e_2 + \frac{2}{257}\sqrt{8385}e^4 \otimes e_9$	{134, 13456, 159, 23589, 24568, 248}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{2383}\sqrt{31395}e^{12}, \frac{28}{2383}\sqrt{663}e^{34}, \frac{8}{2383}\sqrt{1365}e^{13} + \frac{4}{2383}\sqrt{58513}e^{56}$	$(\frac{226}{2383}, -\frac{502}{2383}, -\frac{180}{2383}, \frac{774}{2383}, \frac{452}{2383}, -\frac{406}{2383}, \frac{276}{2383}, \frac{594}{2383}, \frac{46}{2383}) + \frac{4}{2383}\sqrt{35854}e^1 \otimes e_2 + \frac{4}{2383}\sqrt{81354}e^4 \otimes e_9 + \frac{52}{2383}\sqrt{462}e^5 \otimes e_7$	{1347, 1679, 236789, 2478}
93:25	$0, 0, 0, 0, 0, 0, \frac{11}{152}\sqrt{30}e^{12}, \frac{11}{152}\sqrt{30}e^{34}, \frac{1}{152}\sqrt{858}e^{13} + \frac{1}{152}\sqrt{627}e^{56}$	$(\frac{77}{304}, -\frac{79}{304}, -\frac{53}{304}, \frac{4}{19}, \frac{3}{76}, \frac{3}{76}, -\frac{1}{152}, \frac{11}{304}, \frac{3}{38}) + \frac{11}{152}\sqrt{39}e^4 \otimes e_7 + \frac{1}{152}\sqrt{4290}e^1 \otimes e_8$	{123459, 1567, 17, 235678, 2378, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{28}{2383}\sqrt{663}e^{12}, \frac{4}{2383}\sqrt{58513}e^{34}, \frac{8}{2383}\sqrt{1365}e^{13} + \frac{4}{2383}\sqrt{31395}e^{56}$	$(\frac{214}{2383}, -\frac{514}{2383}, \frac{428}{2383}, -\frac{406}{2383}, \frac{750}{2383}, -\frac{108}{2383}, -\frac{300}{2383}, \frac{22}{2383}, \frac{642}{2383}) + \frac{4}{2383}\sqrt{35854}e^1 \otimes e_2 + \frac{4}{2383}\sqrt{81354}e^3 \otimes e_7 + \frac{52}{2383}\sqrt{462}e^5 \otimes e_8$	{146789, 1579, 2478, 2567}
93:25	$0, 0, 0, 0, 0, 0, \frac{5}{161}\sqrt{39}e^{12}, \frac{2}{161}\sqrt{455}e^{34}, \frac{6}{161}\sqrt{130}e^{13} + \frac{2}{161}\sqrt{455}e^{56}$	$(\frac{71}{322}, -\frac{59}{322}, -\frac{73}{322}, \frac{64}{161}, \frac{32}{161}, -\frac{33}{161}, \frac{6}{161}, \frac{55}{322}, -\frac{1}{161}) + \frac{1}{161}\sqrt{6565}e^1 \otimes e_2 + \frac{1}{161}\sqrt{8385}e^4 \otimes e_9 + \frac{65}{161}e^5 \otimes e_6$	{159, 169, 23589, 23689}
93:25	$0, 0, 0, 0, 0, 0, \frac{44}{279}\sqrt{10}e^{12}, \frac{44}{279}\sqrt{10}e^{34}, \frac{8}{279}\sqrt{143}e^{13} + \frac{4}{279}\sqrt{66}e^{56}$	$(\frac{110}{279}, -\frac{20}{279}, -\frac{46}{279}, -\frac{20}{279}, \frac{40}{93}, -\frac{56}{279}, \frac{10}{31}, -\frac{22}{93}, \frac{64}{279}) + \frac{176}{279}e^5 \otimes e_6 + \frac{8}{279}\sqrt{858}e^1 \otimes e_8$	{1259, 1269, 1579, 1679, 235789, 236789, 3589, 3689}
93:25	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{530}e^{12}, \frac{3}{82}\sqrt{53}e^{34}, \frac{1}{82}\sqrt{318}e^{13} + \frac{1}{41}\sqrt{530}e^{56}$	$(\frac{37}{164}, -\frac{69}{164}, \frac{9}{82}, \frac{3}{41}, \frac{37}{82}, -\frac{19}{164}, -\frac{8}{41}, \frac{15}{82}, \frac{55}{164}) + \frac{1}{82}\sqrt{4929}e^5 \otimes e_7 + \frac{5}{82}\sqrt{106}e^1 \otimes e_2$	{134679, 136789, 1478, 17, 2347, 2378, 246789, 2679}
93:25	$0, 0, 0, 0, 0, 0, \frac{8}{3899}\sqrt{3405}e^{12}, \frac{8}{3899}\sqrt{2157}e^{34}, \frac{208}{3899}\sqrt{3}e^{13} + \frac{40}{3899}\sqrt{183}e^{56}$	$(-\frac{148}{3899}, \frac{216}{3899}, \frac{268}{3899}, -\frac{408}{3899}, \frac{164}{3899}, -\frac{44}{3899}, \frac{68}{3899}, -\frac{20}{3899}, \frac{120}{3899}) + \frac{24}{3899}\sqrt{390}e^6 \otimes e_8 + \frac{32}{3899}\sqrt{195}e^2 \otimes e_9 + \frac{8}{3899}\sqrt{4134}e^5 \otimes e_7$	{1256, 134679, 2378, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{40}{173}\sqrt{3}e^{12}, \frac{56}{173}e^{34}, \frac{16}{173}\sqrt{13}e^{13} + \frac{56}{173}e^{56}$	$(-\frac{6}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{32}{173}, \frac{46}{173}, -\frac{32}{173}, \frac{14}{173}, -\frac{12}{173}, \frac{14}{173}) + \frac{8}{173}\sqrt{78}e^2 \otimes e_8 + \frac{8}{173}\sqrt{78}e^5 \otimes e_7$	{123459, 1256, 136789, 1478, 2347, 2679, 3568, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{95}e^{12}, \frac{4}{47}\sqrt{95}e^{34}, \frac{2}{47}\sqrt{247}e^{13} + \frac{2}{47}\sqrt{133}e^{56}$	$(\frac{1}{47}, \frac{27}{47}, \frac{1}{47}, -\frac{12}{47}, \frac{1}{47}, \frac{1}{47}, \frac{28}{47}, -\frac{11}{47}, \frac{2}{47}) + \frac{2}{47}\sqrt{741}e^2 \otimes e_8$	{12, 123459, 1256, 135789, 145678, 1478, 234567, 2347, 2579, 3568, 38, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{31}\sqrt{5}e^{12}, \frac{4}{31}\sqrt{5}e^{34}, \frac{8}{31}\sqrt{6}e^{13} + \frac{4}{31}\sqrt{5}e^{56}$	$(\frac{38}{93}, -\frac{34}{93}, -\frac{10}{93}, \frac{14}{93}, \frac{50}{93}, -\frac{22}{93}, \frac{4}{93}, \frac{4}{93}, \frac{28}{93}) + \frac{16}{31}\sqrt{3}e^1 \otimes e_2 + \frac{24}{31}e^5 \otimes e_6$	{13458, 13468, 135, 136, 245, 246, 258, 268}
93:25	$0, 0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{22}\sqrt{42}e^{34}, \frac{1}{44}\sqrt{182}e^{13} + \frac{1}{22}\sqrt{42}e^{56}$	$(\frac{1}{8}, \frac{3}{11}, -\frac{15}{88}, -\frac{1}{44}, -\frac{1}{44}, -\frac{1}{44}, \frac{35}{88}, -\frac{17}{88}, -\frac{1}{22}) + \frac{1}{44}\sqrt{546}e^1 \otimes e_8 + \frac{1}{44}\sqrt{546}e^2 \otimes e_9$	{1234, 123456, 1579, 245678, 2478, 3589}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{683}\sqrt{1533}e^{12}, \frac{4}{683}\sqrt{1351}e^{34}, \frac{4}{683}\sqrt{910}e^{13} + \frac{4}{683}\sqrt{1351}e^{56}$	$(-\frac{30}{683}, \frac{74}{683}, -\frac{4}{683}, \frac{22}{683}, \frac{100}{683}, -\frac{134}{683}, \frac{44}{683}, \frac{18}{683}, -\frac{34}{683}) + \frac{12}{683}\sqrt{182}e^2 \otimes e_8 + \frac{12}{683}\sqrt{182}e^5 \otimes e_7 + \frac{8}{683}\sqrt{273}e^4 \otimes e_9$	{136789, 1478, 2347, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:25	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{23}e^{12}, \frac{1}{112}\sqrt{1610}e^{34}, \frac{1}{112}\sqrt{138}e^{13} + \frac{1}{112}\sqrt{1610}e^{56}$	$(\frac{19}{112}, -\frac{1}{28}, -\frac{43}{224}, \frac{41}{224}, \frac{11}{56}, -\frac{7}{32}, \frac{15}{112}, -\frac{1}{112}, -\frac{5}{224})$ $+ \frac{1}{112}\sqrt{2139}e^5 \otimes e_8 + \frac{1}{56}\sqrt{115}e^1 \otimes e_2 + \frac{3}{112}\sqrt{230}e^4 \otimes e_9$	{136789, 1478, 234567, 2579}
93:25	$0, 0, 0, 0, 0, 0, \frac{3}{82}\sqrt{53}e^{12}, \frac{1}{41}\sqrt{530}e^{34}, \frac{1}{82}\sqrt{318}e^{13} + \frac{1}{41}\sqrt{530}e^{56}$	$(\frac{17}{41}, -\frac{19}{82}, -\frac{13}{164}, -\frac{19}{164}, \frac{37}{82}, -\frac{19}{164}, \frac{15}{82}, -\frac{8}{41}, \frac{55}{164})$ $+ \frac{1}{82}\sqrt{4929}e^5 \otimes e_8 + \frac{5}{82}\sqrt{106}e^1 \otimes e_2$	{134579, 136789, 1478, 1567, 234567, 2378, 246789, 2579}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{51}\sqrt{21}e^{12}, \frac{4}{51}\sqrt{21}e^{34}, \frac{8}{17}\sqrt{2}e^{13} + \frac{4}{51}\sqrt{21}e^{56}$	$(\frac{10}{51}, -\frac{14}{51}, \frac{10}{51}, -\frac{14}{51}, \frac{10}{51}, \frac{10}{51}, -\frac{4}{51}, -\frac{4}{51}, \frac{20}{51})$ $+ \frac{8}{17}\sqrt{2}e^1 \otimes e_2 + \frac{8}{17}\sqrt{2}e^3 \otimes e_4$	{135, 14569, 149, 245}
93:25	$0, 0, 0, 0, 0, 0, \frac{56}{173}e^{12}, \frac{56}{173}e^{34}, \frac{16}{173}\sqrt{13}e^{13} + \frac{40}{173}\sqrt{3}e^{56}$	$(\frac{20}{173}, -\frac{32}{173}, \frac{20}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{8}{173}\sqrt{78}e^5 \otimes e_7 + \frac{8}{173}\sqrt{78}e^6 \otimes e_8$	{123589, 1256, 1478, 2679}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{455}e^{12}, \frac{4}{257}\sqrt{455}e^{34}, \frac{12}{257}\sqrt{130}e^{13} + \frac{10}{257}\sqrt{39}e^{56}$	$(\frac{28}{257}, -\frac{102}{257}, \frac{56}{257}, -\frac{1}{257}, \frac{42}{257}, \frac{42}{257}, -\frac{74}{257}, \frac{55}{257}, \frac{84}{257})$ $+ \frac{2}{257}\sqrt{6565}e^1 \otimes e_2 + \frac{2}{257}\sqrt{8385}e^3 \otimes e_7$	{1456789, 14789, 15679, 179, 24578, 257}
93:25	$0, 0, 0, 0, 0, 0, \frac{11}{152}\sqrt{30}e^{12}, \frac{1}{152}\sqrt{627}e^{34}, \frac{1}{152}\sqrt{858}e^{13} + \frac{11}{152}\sqrt{30}e^{56}$	$(-\frac{53}{304}, \frac{51}{304}, \frac{1}{8}, \frac{3}{76}, \frac{4}{19}, -\frac{79}{304}, -\frac{1}{152}, \frac{25}{152}, -\frac{15}{304})$ $+ \frac{11}{152}\sqrt{39}e^5 \otimes e_7 + \frac{1}{152}\sqrt{4290}e^2 \otimes e_9$	{124568, 1256, 134679, 136789, 2347, 2378, 4589, 59}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{95}e^{12}, \frac{2}{33}\sqrt{95}e^{34}, \frac{1}{33}\sqrt{247}e^{13} + \frac{1}{33}\sqrt{133}e^{56}$	$(\frac{1}{66}, \frac{9}{22}, \frac{1}{66}, -\frac{2}{11}, \frac{10}{33}, -\frac{3}{11}, \frac{14}{33}, -\frac{1}{6}, \frac{1}{33})$ $+ \frac{19}{33}e^5 \otimes e_6 + \frac{1}{33}\sqrt{741}e^2 \otimes e_8$	{123459, 123469, 135789, 136789, 2579, 2679, 4589, 4689}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{74}e^{12}, \frac{2}{87}\sqrt{74}e^{34}, \frac{4}{87}\sqrt{13}e^{13} + \frac{2}{87}\sqrt{22}e^{56}$	$(-\frac{4}{87}, \frac{3}{29}, -\frac{4}{87}, \frac{3}{29}, -\frac{2}{87}, -\frac{2}{87}, \frac{5}{87}, \frac{5}{87}, -\frac{8}{87})$ $+ \frac{2}{87}\sqrt{78}e^2 \otimes e_8 + \frac{2}{87}\sqrt{78}e^4 \otimes e_7 + \frac{4}{87}e^5 \otimes e_6$	{123459, 123469, 135789, 136789, 2579, 2679, 4589, 4689}
93:25	$0, 0, 0, 0, 0, 0, \frac{120}{3923}\sqrt{53}e^{12}, \frac{24}{3923}\sqrt{467}e^{34}, \frac{48}{3923}\sqrt{13}e^{13} + \frac{24}{3923}\sqrt{987}e^{56}$	$(\frac{76}{3923}, \frac{284}{3923}, -\frac{80}{3923}, -\frac{132}{3923}, \frac{648}{3923}, -\frac{652}{3923}, \frac{360}{3923}, -\frac{212}{3923}, -\frac{4}{3923})$ $+ \frac{168}{3923}\sqrt{26}e^2 \otimes e_9 + \frac{240}{3923}\sqrt{13}e^5 \otimes e_7 + \frac{312}{3923}\sqrt{6}e^1 \otimes e_8$	{1256, 134679, 2378, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{8}{371}\sqrt{246}e^{12}, \frac{8}{371}\sqrt{246}e^{34}, \frac{96}{371}\sqrt{2}e^{13} + \frac{8}{371}\sqrt{370}e^{56}$	$(\frac{20}{371}, -\frac{44}{371}, \frac{60}{371}, -\frac{12}{371}, \frac{40}{371}, \frac{40}{371}, -\frac{24}{371}, -\frac{24}{371}, \frac{80}{371})$ $+ \frac{16}{371}\sqrt{93}e^5 \otimes e_7 + \frac{16}{371}\sqrt{93}e^6 \otimes e_8 + \frac{32}{371}\sqrt{5}e^1 \otimes e_2$	{123589, 1256, 3456, 4589}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{751}\sqrt{20305}e^{12}, \frac{4}{751}\sqrt{5502}e^{34}, \frac{2}{751}\sqrt{8515}e^{13} + \frac{8}{751}\sqrt{2227}e^{56}$	$(-\frac{2}{751}, \frac{245}{751}, -\frac{15}{751}, -\frac{80}{751}, \frac{167}{751}, -\frac{184}{751}, \frac{243}{751}, -\frac{95}{751}, -\frac{17}{751})$ $+ \frac{4}{751}\sqrt{10218}e^2 \otimes e_9 + \frac{6}{751}\sqrt{5109}e^5 \otimes e_8$	{1248, 1256, 134579, 136789, 234567, 2378, 4689, 59}
93:25	$0, 0, 0, 0, 0, 0, \frac{8}{371}\sqrt{246}e^{12}, \frac{8}{371}\sqrt{370}e^{34}, \frac{96}{371}\sqrt{2}e^{13} + \frac{8}{371}\sqrt{246}e^{56}$	$(\frac{20}{371}, -\frac{44}{371}, -\frac{2}{371}, \frac{40}{371}, \frac{102}{371}, -\frac{12}{371}, -\frac{24}{371}, \frac{38}{371}, \frac{18}{371})$ $+ \frac{16}{371}\sqrt{93}e^4 \otimes e_7 + \frac{16}{371}\sqrt{93}e^5 \otimes e_8 + \frac{32}{371}\sqrt{5}e^1 \otimes e_2$	{123459, 1248, 3456, 4689}
93:25	$0, 0, 0, 0, 0, 0, \frac{44}{191}\sqrt{10}e^{12}, \frac{44}{191}\sqrt{10}e^{34}, \frac{8}{191}\sqrt{143}e^{13} + \frac{4}{191}\sqrt{66}e^{56}$	$(\frac{110}{191}, -\frac{20}{191}, -\frac{46}{191}, -\frac{20}{191}, \frac{32}{191}, \frac{32}{191}, \frac{90}{191}, -\frac{66}{191}, \frac{64}{191})$ $+ \frac{8}{191}\sqrt{858}e^1 \otimes e_8$	{1234, 123456, 1259, 134567, 1347, 1579, 235789, 245678, 2478, 3589, 4568, 48}
93:25	$0, 0, 0, 0, 0, 0, \frac{2}{85}\sqrt{74}e^{12}, \frac{2}{85}\sqrt{74}e^{34}, \frac{4}{85}\sqrt{13}e^{13} + \frac{2}{85}\sqrt{22}e^{56}$	$(-\frac{4}{85}, \frac{9}{85}, -\frac{4}{85}, \frac{9}{85}, -\frac{4}{85}, -\frac{4}{85}, \frac{1}{17}, \frac{1}{17}, -\frac{8}{85})$ $+ \frac{2}{85}\sqrt{78}e^2 \otimes e_8 + \frac{2}{85}\sqrt{78}e^4 \otimes e_7$	{123459, 135789, 2579}
93:25	$0, 0, 0, 0, 0, 0, \frac{56}{173}e^{12}, \frac{56}{173}e^{34}, \frac{8}{173}\sqrt{26}e^{13} + \frac{8}{173}\sqrt{3}e^{56}$	$(\frac{20}{173}, -\frac{32}{173}, \frac{20}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{8}{173}\sqrt{78}e^1 \otimes e_8 + \frac{8}{173}\sqrt{78}e^3 \otimes e_7$	{12345, 15679, 179, 24578}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{63}\sqrt{21}e^{12}, \frac{4}{63}\sqrt{21}e^{34}, \frac{8}{21}\sqrt{2}e^{13} + \frac{4}{63}\sqrt{21}e^{56}$	$(\frac{10}{63}, -\frac{2}{9}, \frac{10}{63}, -\frac{2}{9}, \frac{22}{63}, -\frac{2}{63}, -\frac{4}{63}, -\frac{4}{63}, \frac{20}{63})$ $+ \frac{8}{21}\sqrt{2}e^1 \otimes e_2 + \frac{8}{21}\sqrt{2}e^3 \otimes e_4 + \frac{8}{21}e^5 \otimes e_6$	{135, 136, 245, 246}
93:25	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{95}e^{12}, \frac{2}{47}\sqrt{133}e^{34}, \frac{2}{47}\sqrt{247}e^{13} + \frac{4}{47}\sqrt{95}e^{56}$	$(\frac{1}{47}, -\frac{12}{47}, \frac{14}{47}, \frac{1}{47}, \frac{27}{47}, -\frac{12}{47}, -\frac{11}{47}, \frac{15}{47}, \frac{15}{47})$ $+ \frac{2}{47}\sqrt{741}e^5 \otimes e_7$	{123459, 123589, 124568, 1256, 134679, 136789, 1478, 17, 2347, 2378, 246789, 2679, 3456, 3568, 4589, 59}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:25	$0, 0, 0, 0, 0, 0, \frac{5}{51}\sqrt{14}e^{12}, \frac{2}{51}\sqrt{42}e^{34}, \frac{1}{51}\sqrt{182}e^{13} + \frac{2}{51}\sqrt{42}e^{56}$	$(\frac{11}{102}, \frac{4}{17}, -\frac{5}{34}, -\frac{1}{51}, \frac{2}{17}, -\frac{8}{51}, \frac{35}{102}, -\frac{1}{6}, -\frac{2}{51})$ $+ \frac{14}{51}e^5 \otimes e_6 + \frac{1}{51}\sqrt{546}e^1 \otimes e_8 + \frac{1}{51}\sqrt{546}e^2 \otimes e_9$	{1579, 1679, 3589, 3689}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{2071}\sqrt{2870}e^{12}, \frac{16}{2071}\sqrt{2415}e^{34},$ $\frac{8}{2071}\sqrt{9730}e^{15} + \frac{4}{2071}\sqrt{10010}e^{36}$	$(\frac{135}{2071}, -\frac{425}{2071}, \frac{270}{2071}, -\frac{378}{2071}, \frac{452}{2071}, \frac{317}{2071}, -\frac{290}{2071}, -\frac{108}{2071}, \frac{587}{2071})$ $+ \frac{20}{2071}\sqrt{1414}e^3 \otimes e_7 + \frac{24}{2071}\sqrt{1085}e^1 \otimes e_2 + \frac{8}{2071}\sqrt{14595}e^5 \otimes e_8$	{14789, 1567, 24678, 2579}
93:26	$0, 0, 0, 0, 0, 0, \frac{68}{4281}\sqrt{557}e^{12}, \frac{4}{4281}\sqrt{130895}e^{34},$ $\frac{2}{4281}\sqrt{209989}e^{15} + \frac{2}{4281}\sqrt{181582}e^{36}$	$(\frac{707}{4281}, -\frac{805}{4281}, \frac{305}{1427}, \frac{1016}{4281}, \frac{407}{4281}, \frac{405}{1427}, -\frac{98}{4281}, \frac{101}{4281}, \frac{100}{1427})$ $+ \frac{2}{4281}\sqrt{632195}e^1 \otimes e_5 + \frac{2}{4281}\sqrt{662830}e^6 \otimes e_8 + \frac{2}{4281}\sqrt{893985}e^4 \otimes e_7$	{12346, 1248, 3456, 458}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778}e^{12}, \frac{1}{215}\sqrt{8778}e^{34},$ $\frac{2}{215}\sqrt{1463}e^{15} + \frac{2}{215}\sqrt{1463}e^{36}$	$(-\frac{28}{215}, -\frac{6}{215}, -\frac{28}{215}, -\frac{6}{215}, \frac{99}{215}, \frac{99}{215}, -\frac{34}{215}, -\frac{34}{215}, \frac{71}{215})$ $+ \frac{2}{215}\sqrt{6251}e^5 \otimes e_7 + \frac{2}{215}\sqrt{6251}e^6 \otimes e_8$	{123456, 12458, 13789, 1679, 2478, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{7}{144}\sqrt{230}e^{12}, \frac{23}{144}\sqrt{7}e^{34}, \frac{1}{144}\sqrt{12558}e^{15} + \frac{1}{36}\sqrt{161}e^{36}$	$(-\frac{95}{288}, -\frac{17}{288}, \frac{23}{144}, \frac{5}{48}, \frac{35}{48}, \frac{23}{96}, -\frac{7}{18}, \frac{19}{72}, \frac{115}{288})$ $+ \frac{1}{144}\sqrt{37835}e^5 \otimes e_7$	{12345, 12358, 124568, 1256, 134679, 136789, 14789, 179, 2347, 2378, 24678, 267, 34569, 35689, 4589, 59}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{221}\sqrt{1794}e^{12}, \frac{1}{221}\sqrt{7130}e^{34}, \frac{2}{221}\sqrt{1633}e^{15} + \frac{23}{221}\sqrt{2}e^{36}$	$(\frac{3}{17}, \frac{3}{221}, -\frac{87}{442}, \frac{73}{442}, -\frac{97}{442}, \frac{2}{13}, \frac{42}{221}, -\frac{7}{221}, -\frac{19}{442})$ $+ \frac{1}{221}\sqrt{8418}e^4 \otimes e_9 + \frac{1}{221}\sqrt{2461}e^1 \otimes e_8$	{12345, 129, 13457, 179, 2356789, 24678, 35689, 468}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{104}\sqrt{1554}e^{12}, \frac{1}{104}\sqrt{1554}e^{34}, \frac{7}{104}\sqrt{6}e^{15} + \frac{7}{104}\sqrt{6}e^{36}$	$(-\frac{21}{104}, \frac{3}{16}, -\frac{21}{104}, \frac{3}{16}, \frac{2}{13}, \frac{2}{13}, -\frac{3}{208}, -\frac{3}{208}, -\frac{5}{104})$ $+ \frac{1}{104}\sqrt{1995}e^2 \otimes e_8 + \frac{1}{104}\sqrt{1995}e^4 \otimes e_7$	{1234, 1234569, 1356789, 1378, 2567, 279}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{227}\sqrt{770}e^{12}, \frac{6}{227}\sqrt{35}e^{34}, \frac{3}{227}\sqrt{14}e^{15} + \frac{3}{227}\sqrt{742}e^{36}$	$(\frac{25}{227}, \frac{50}{227}, -\frac{43}{227}, \frac{10}{227}, -\frac{38}{227}, \frac{30}{227}, \frac{75}{227}, -\frac{33}{227}, -\frac{13}{227})$ $+ \frac{3}{227}\sqrt{1190}e^2 \otimes e_9 + \frac{3}{227}\sqrt{826}e^1 \otimes e_5 + \frac{63}{227}\sqrt{2}e^6 \otimes e_8$	{12346, 1248, 234567, 24578}
93:26	$0, 0, 0, 0, 0, 0, \frac{9}{1697}\sqrt{5810}e^{12}, \frac{3}{1697}\sqrt{21082}e^{34},$ $\frac{24}{1697}\sqrt{166}e^{15} + \frac{6}{1697}\sqrt{20833}e^{36}$	$(-\frac{184}{1697}, \frac{694}{1697}, -\frac{434}{1697}, \frac{68}{1697}, \frac{131}{1697}, \frac{381}{1697}, \frac{510}{1697}, -\frac{366}{1697}, -\frac{53}{1697})$ $+ \frac{12}{1697}\sqrt{7138}e^6 \otimes e_8 + \frac{6}{1697}\sqrt{33781}e^2 \otimes e_9$	{123456, 12458, 13789, 1679, 23467, 2478, 3589, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{349}\sqrt{31710}e^{12}, \frac{2}{349}\sqrt{5738}e^{34},$ $\frac{2}{349}\sqrt{2567}e^{15} + \frac{4}{349}\sqrt{453}e^{36}$	$(-\frac{101}{349}, \frac{99}{349}, -\frac{14}{349}, -\frac{38}{349}, \frac{149}{349}, \frac{62}{349}, -\frac{2}{349}, -\frac{52}{349}, \frac{48}{349})$ $+ \frac{1}{349}\sqrt{43790}e^5 \otimes e_7 + \frac{2}{349}\sqrt{12533}e^2 \otimes e_8$	{12345, 1256, 136789, 14789, 2347, 267, 35689, 4589}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{5}e^{34}, \frac{3}{26}\sqrt{2}e^{15} + \frac{3}{26}\sqrt{2}e^{36}$	$(\frac{5}{13}, -\frac{1}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{26}\sqrt{46}e^1 \otimes e_5 - \frac{3}{26}\sqrt{46}e^3 \otimes e_6$	{1234, 1238, 12468, 126, 1378, 14678, 167, 245678, 2567, 56}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{4209}\sqrt{42515}e^{12}, \frac{2}{4209}\sqrt{490082}e^{34},$ $\frac{4}{4209}\sqrt{217213}e^{15} + \frac{2}{4209}\sqrt{365629}e^{36}$	$(\frac{110}{1403}, -\frac{1216}{4209}, \frac{1268}{4209}, -\frac{295}{4209}, \frac{220}{1403}, \frac{278}{4209}, -\frac{886}{4209}, \frac{973}{4209}, \frac{330}{1403})$ $+ \frac{2}{4209}\sqrt{1031955}e^1 \otimes e_2 + \frac{2}{4209}\sqrt{842570}e^3 \otimes e_6 + \frac{34}{4209}\sqrt{3865}e^5 \otimes e_7$	{2347, 2378, 24678, 267}
93:26	$0, 0, 0, 0, 0, 0, \frac{12}{4355}\sqrt{1885}e^{12}, \frac{4}{4355}\sqrt{34742}e^{34},$ $\frac{4}{4355}\sqrt{39643}e^{15} + \frac{4}{4355}\sqrt{9599}e^{36}$	$(\frac{6}{335}, -\frac{246}{4355}, -\frac{528}{4355}, \frac{374}{4355}, \frac{64}{4355}, \frac{2}{13}, -\frac{168}{4355}, -\frac{154}{4355}, \frac{142}{4355})$ $+ \frac{12}{4355}\sqrt{3973}e^4 \otimes e_9 + \frac{4}{4355}\sqrt{49039}e^1 \otimes e_8 + \frac{8}{4355}\sqrt{7917}e^5 \otimes e_7$	{12345, 179, 24678, 35689}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{4689}\sqrt{78445}e^{12}, \frac{2}{4689}\sqrt{196910}e^{34},$ $\frac{8}{4689}\sqrt{17255}e^{15} + \frac{2}{4689}\sqrt{69890}e^{36}$	$(\frac{5}{1563}, -\frac{275}{4689}, -\frac{595}{4689}, \frac{458}{4689}, \frac{17}{521}, \frac{763}{4689}, -\frac{260}{4689}, -\frac{137}{4689}, \frac{56}{1563})$ $+ \frac{10}{4689}\sqrt{8903}e^4 \otimes e_9 + \frac{2}{4689}\sqrt{159065}e^1 \otimes e_2 + \frac{8}{4689}\sqrt{16095}e^5 \otimes e_8$	{1345, 13689, 2468, 259}
93:26	$0, 0, 0, 0, 0, 0, \frac{8}{581}\sqrt{1749}e^{12}, \frac{4}{581}\sqrt{12137}e^{34},$ $\frac{4}{581}\sqrt{9805}e^{15} + \frac{212}{581}\sqrt{2}e^{36}$	$(\frac{264}{581}, -\frac{36}{581}, -\frac{27}{581}, -\frac{19}{83}, -\frac{89}{581}, \frac{202}{581}, \frac{228}{581}, -\frac{160}{581}, \frac{25}{83})$ $+ \frac{4}{581}\sqrt{25705}e^1 \otimes e_8$	{12345, 123469, 1256, 129, 13457, 134679, 1567, 179, 2356789, 2378, 245789, 24678, 35689, 38, 4589, 468}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{293}\sqrt{4074}e^{12}, \frac{2}{293}\sqrt{1455}e^{34},$ $\frac{1}{293}\sqrt{9118}e^{15} + \frac{4}{293}\sqrt{582}e^{36}$	$(\frac{31}{293}, -\frac{66}{293}, -\frac{51}{293}, \frac{108}{293}, -\frac{20}{293}, \frac{62}{293}, -\frac{35}{293}, \frac{57}{293}, \frac{11}{293})$ $+ \frac{12}{293}\sqrt{97}e^1 \otimes e_2 + \frac{1}{293}\sqrt{16102}e^6 \otimes e_7 + \frac{1}{293}\sqrt{21534}e^4 \otimes e_9$	{13789, 14578, 235789, 2478}
93:26	$0, 0, 0, 0, 0, 0, \frac{23}{111}\sqrt{6}e^{12}, \frac{1}{37}\sqrt{230}e^{34}, \frac{2}{111}\sqrt{345}e^{15} + \frac{2}{111}\sqrt{690}e^{36}$	$(\frac{46}{111}, -\frac{10}{111}, -\frac{22}{111}, -\frac{2}{111}, -\frac{23}{111}, \frac{15}{37}, \frac{12}{37}, -\frac{8}{37}, \frac{23}{111})$ $+ \frac{46}{111}\sqrt{1794}e^6 \otimes e_8 + \frac{46}{111}\sqrt{3}e^1 \otimes e_5$	{12346, 1248, 13467, 1478, 234567, 24578, 3456, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{12}, \frac{2}{93}\sqrt{627}e^{34}, \frac{1}{93}\sqrt{1482}e^{15} + \frac{4}{93}\sqrt{57}e^{36}$	$(\frac{6}{31}, -\frac{13}{31}, -\frac{1}{31}, \frac{12}{31}, -\frac{2}{93}, \frac{19}{93}, -\frac{7}{31}, \frac{11}{31}, \frac{16}{93})$ $+ \frac{1}{93}\sqrt{3990}e^1 \otimes e_2 + \frac{1}{93}\sqrt{5358}e^4 \otimes e_7$	{13578, 136789, 1567, 179, 2356789, 2378, 2579, 267}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{4449}\sqrt{231470}e^{12}, \frac{24}{1483}\sqrt{293}e^{34},$ $\frac{2}{4449}\sqrt{333434}e^{15} + \frac{4}{4449}\sqrt{50982}e^{36}$	$(\frac{323}{4449}, -\frac{148}{1483}, \frac{229}{1483}, -\frac{950}{4449}, \frac{155}{1483}, \frac{101}{4449}, -\frac{121}{4449}, -\frac{263}{4449}, \frac{788}{4449})$ $+ \frac{2}{4449}\sqrt{275713}e^3 \otimes e_6 + \frac{2}{4449}\sqrt{368301}e^5 \otimes e_7 + \frac{2}{4449}\sqrt{558165}e^1 \otimes e_8$	{12345, 1256, 2378, 24678}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{607}\sqrt{94010}e^{12}, \frac{1}{1821}\sqrt{301070}e^{34},$ $\frac{4}{1821}\sqrt{23205}e^{15} + \frac{1}{1821}\sqrt{486710}e^{36}$	$(\frac{146}{607}, -\frac{527}{1821}, \frac{506}{1821}, -\frac{23}{607}, -\frac{157}{1821}, -\frac{75}{607}, -\frac{89}{1821}, \frac{437}{1821}, \frac{281}{1821})$ $+ \frac{1}{1821}\sqrt{777070}e^1 \otimes e_5 + \frac{4}{1821}\sqrt{73185}e^3 \otimes e_7$	{12346, 12368, 1478, 17, 24578, 257, 3456, 3568}
93:26	$0, 0, 0, 0, 0, 0, \frac{27}{1817}\sqrt{1318}e^{12}, \frac{1}{1817}\sqrt{167386}e^{34},$ $\frac{2}{1817}\sqrt{121915}e^{15} + \frac{6}{1817}\sqrt{19770}e^{36}$	$(\frac{494}{1817}, -\frac{570}{1817}, -\frac{254}{1817}, \frac{286}{1817}, -\frac{165}{1817}, \frac{583}{1817}, -\frac{76}{1817}, \frac{32}{1817}, \frac{329}{1817})$ $+ \frac{2}{1817}\sqrt{228673}e^1 \otimes e_5 + \frac{2}{1817}\sqrt{317638}e^6 \otimes e_7$	{123468, 1236, 147, 178, 2457, 2578, 34568, 356}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{377}\sqrt{1498}e^{12}, \frac{36}{377}\sqrt{14}e^{34}, \frac{84}{377}e^{15} + \frac{3}{377}\sqrt{770}e^{36}$	$(\frac{57}{377}, -\frac{72}{377}, -\frac{54}{377}, \frac{48}{377}, -\frac{21}{377}, \frac{90}{377}, -\frac{15}{377}, -\frac{6}{377}, \frac{36}{377})$ $+ \frac{3}{377}\sqrt{2198}e^4 \otimes e_7 + \frac{3}{377}\sqrt{2590}e^1 \otimes e_8$	{12345, 123469, 1567, 179, 2356789, 2378, 4589, 468}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{277}\sqrt{1398}e^{12}, \frac{2}{277}\sqrt{13281}e^{34},$ $\frac{1}{277}\sqrt{57318}e^{15} + \frac{1}{277}\sqrt{30290}e^{36}$	$(-\frac{54}{277}, \frac{69}{277}, -\frac{7}{277}, -\frac{72}{277}, \frac{154}{277}, \frac{107}{277}, \frac{15}{277}, -\frac{79}{277}, \frac{100}{277})$ $+ \frac{1}{277}\sqrt{109510}e^5 \otimes e_8$	{123457, 1236789, 124789, 12567, 1345, 13689, 1489, 156, 234569, 238, 2468, 259, 345679, 378, 4678, 579}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{39}\sqrt{11}e^{12}, \frac{20}{39}e^{34}, \frac{4}{39}\sqrt{10}e^{15} + \frac{4}{39}\sqrt{3}e^{36}$	$(-\frac{2}{13}, \frac{16}{39}, -\frac{19}{78}, \frac{19}{78}, -\frac{1}{78}, \frac{1}{13}, \frac{10}{39}, 0, -\frac{1}{6})$ $+ \frac{4}{39}\sqrt{34}e^2 \otimes e_8 + \frac{4}{39}\sqrt{35}e^4 \otimes e_9$	{123456, 1269, 13789, 14578, 23467, 25679, 3589, 48}
93:26	$0, 0, 0, 0, 0, 0, \frac{8}{4161}\sqrt{32017}e^{12}, \frac{8}{4161}\sqrt{5389}e^{34},$ $\frac{2}{4161}\sqrt{217779}e^{15} + \frac{2}{4161}\sqrt{231410}e^{36}$	$(\frac{481}{4161}, -\frac{70}{4161}, -\frac{239}{1387}, \frac{13}{4161}, -\frac{51}{1387}, \frac{55}{219}, \frac{137}{1387}, -\frac{704}{4161}, \frac{328}{4161})$ $+ \frac{10}{1387}\sqrt{1585}e^1 \otimes e_5 + \frac{2}{4161}\sqrt{399737}e^2 \otimes e_8 + \frac{2}{4161}\sqrt{472330}e^6 \otimes e_7$	{12346, 1478, 257, 3568}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{105}e^{12}, \frac{5}{79}\sqrt{42}e^{34}, \frac{4}{79}\sqrt{105}e^{15} + \frac{1}{79}\sqrt{70}e^{36}$	$(-\frac{21}{79}, \frac{36}{79}, -\frac{7}{79}, -\frac{6}{79}, \frac{22}{79}, \frac{8}{79}, \frac{15}{79}, -\frac{13}{79}, \frac{1}{79})$ $+ \frac{1}{79}\sqrt{2310}e^2 \otimes e_9 + \frac{1}{79}\sqrt{2590}e^5 \otimes e_8$	{123456, 125, 13789, 146789, 23678, 2478, 3459, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109}e^{12}, \frac{2}{181}\sqrt{1073}e^{34}, \frac{2}{181}\sqrt{370}e^{15} + \frac{2}{181}\sqrt{703}e^{36}$	$(\frac{39}{181}, -\frac{36}{181}, -\frac{27}{181}, -\frac{8}{181}, \frac{11}{181}, \frac{77}{181}, \frac{3}{181}, -\frac{35}{181}, \frac{50}{181})$ $+ \frac{10}{181}\sqrt{111}e^6 \otimes e_7 + \frac{2}{181}\sqrt{3145}e^1 \otimes e_8$	{123456, 1269, 13479, 157, 235789, 2478, 368, 45689}
93:26	$0, 0, 0, 0, 0, 0, \frac{18}{473}\sqrt{133}e^{12}, \frac{6}{473}\sqrt{38}e^{34}, \frac{57}{473}\sqrt{10}e^{15} + \frac{6}{473}\sqrt{589}e^{36}$	$(-\frac{171}{473}, \frac{151}{473}, -\frac{8}{473}, \frac{54}{473}, \frac{151}{473}, -\frac{12}{473}, -\frac{20}{473}, \frac{46}{473}, -\frac{20}{473})$ $+ \frac{3}{473}\sqrt{8626}e^2 \otimes e_9 + \frac{42}{473}\sqrt{38}e^5 \otimes e_7$	{1234568, 12356, 1245, 1258, 134789, 1379, 14679, 16789, 234678, 2367, 247, 278, 34589, 359, 4569, 5689}
93:26	$0, 0, 0, 0, 0, 0, \frac{18}{473}\sqrt{133}e^{12}, \frac{6}{473}\sqrt{38}e^{34}, \frac{57}{473}\sqrt{10}e^{15} + \frac{6}{473}\sqrt{589}e^{36}$	$(-\frac{171}{473}, \frac{151}{473}, -\frac{8}{473}, \frac{54}{473}, \frac{151}{473}, -\frac{12}{473}, -\frac{20}{473}, \frac{46}{473}, -\frac{20}{473})$ $+ \frac{3}{473}\sqrt{8626}e^2 \otimes e_9 - \frac{42}{473}\sqrt{38}e^5 \otimes e_7$	{1234568, 12356, 1245, 1258, 134789, 1379, 14679, 16789, 234678, 2367, 247, 278, 34589, 359, 4569, 5689}
93:26	$0, 0, 0, 0, 0, 0, \frac{21}{1913}\sqrt{902}e^{12}, \frac{14}{1913}\sqrt{2255}e^{34},$ $\frac{2}{1913}\sqrt{133045}e^{15} + \frac{2}{1913}\sqrt{67199}e^{36}$	$(\frac{141}{1913}, -\frac{255}{1913}, -\frac{6}{1913}, -\frac{304}{1913}, \frac{337}{1913}, \frac{484}{1913}, -\frac{114}{1913}, -\frac{310}{1913}, \frac{478}{1913})$ $+ \frac{1}{1913}\sqrt{668382}e^5 \otimes e_7 + \frac{2}{1913}\sqrt{222343}e^1 \otimes e_8$	{12345, 1256, 134679, 179, 2378, 24678, 35689, 4589}
93:26	$0, 0, 0, 0, 0, 0, \frac{6}{217}\sqrt{170}e^{12}, \frac{6}{217}\sqrt{170}e^{34}, \frac{3}{217}\sqrt{130}e^{15} + \frac{3}{217}\sqrt{130}e^{36}$	$(\frac{39}{217}, -\frac{45}{217}, \frac{39}{217}, -\frac{45}{217}, \frac{10}{217}, \frac{10}{217}, -\frac{6}{217}, -\frac{6}{217}, \frac{7}{31})$ $+ \frac{3}{217}\sqrt{970}e^1 \otimes e_8 + \frac{3}{217}\sqrt{970}e^3 \otimes e_7$	{123456, 12349, 157, 1679, 2456789, 2478}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{2814}e^{12}, \frac{1}{73}\sqrt{402}e^{34}, \frac{2}{73}\sqrt{335}e^{15} + \frac{2}{73}\sqrt{737}e^{36}$	$(-\frac{18}{73}, \frac{52}{73}, -\frac{6}{73}, \frac{16}{73}, \frac{3}{73}, -\frac{9}{73}, \frac{34}{73}, \frac{10}{73}, -\frac{15}{73})$ $+ \frac{2}{73}\sqrt{2010}e^2 \otimes e_9$	{1234568, 12356, 1245, 1258, 134789, 1379, 14679, 16789, 234678, 2367, 247, 278, 34589, 359, 4569, 5689}
93:26	$0, 0, 0, 0, 0, 0, \frac{6}{1169}\sqrt{2135}e^{12}, \frac{3}{1169}\sqrt{1990}e^{34},$ $\frac{24}{1169}\sqrt{35}e^{15} + \frac{6}{1169}\sqrt{1870}e^{36}$	$(\frac{19}{1169}, \frac{38}{1169}, -\frac{199}{1169}, \frac{25}{167}, -\frac{71}{1169}, \frac{21}{167}, \frac{57}{1169}, -\frac{24}{1169}, -\frac{52}{1169})$ $+ \frac{27}{1169}\sqrt{110}e^6 \otimes e_7 + \frac{3}{1169}\sqrt{5170}e^1 \otimes e_5 + \frac{3}{1169}\sqrt{7790}e^2 \otimes e_9$	{123468, 1236, 2457, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{464}\sqrt{16870}e^{12}, \frac{3}{464}\sqrt{1687}e^{34},$ $\frac{1}{464}\sqrt{76638}e^{15} + \frac{1}{116}\sqrt{1446}e^{36}$	$(\frac{105}{928}, -\frac{13}{32}, \frac{63}{464}, \frac{15}{464}, \frac{105}{464}, \frac{189}{928}, -\frac{17}{58}, \frac{39}{232}, \frac{315}{928})$ $+ \frac{1}{464}\sqrt{104835}e^5 \otimes e_7 + \frac{5}{116}\sqrt{241}e^1 \otimes e_2$	{134679, 136789, 14789, 179, 2347, 2378, 24678, 267}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{1425}\sqrt{283470}e^{12}, \frac{1}{1425}\sqrt{434654}e^{34},$ $\frac{2}{475}\sqrt{9449}e^{15} + \frac{2}{1425}\sqrt{66143}e^{36}$	$(\frac{22}{95}, \frac{16}{1425}, -\frac{226}{1425}, \frac{44}{95}, -\frac{529}{1425}, \frac{9}{475}, \frac{346}{1425}, \frac{434}{1425}, -\frac{199}{1425})$ $+ \frac{2}{1425}\sqrt{314394}e^4 \otimes e_9 + \frac{32}{1425}\sqrt{859}e^1 \otimes e_5$	{12389, 1269, 13789, 1679, 235789, 25679, 3589, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{6}{3505}\sqrt{18942}e^{12}, \frac{6}{3505}\sqrt{30877}e^{34},$ $\frac{168}{3505}\sqrt{77}e^{15} + \frac{18}{3505}\sqrt{77}e^{36}$	$(\frac{369}{3505}, -\frac{1017}{3505}, -\frac{96}{3505}, \frac{87}{3505}, \frac{738}{3505}, \frac{1203}{3505}, -\frac{648}{3505}, \frac{183}{3505}, \frac{1107}{3505})$ $+ \frac{12}{3505}\sqrt{23254}e^5 \otimes e_7 + \frac{42}{3505}\sqrt{1705}e^1 \otimes e_2 + \frac{6}{3505}\sqrt{69146}e^6 \otimes e_8$	{13789, 1679, 23467, 2478}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{211}\sqrt{55}e^{12}, \frac{2}{211}\sqrt{1430}e^{34}, \frac{2}{211}\sqrt{1397}e^{15} + \frac{1}{211}\sqrt{3322}e^{36}$	$(\frac{3}{211}, -\frac{41}{211}, -\frac{12}{211}, \frac{6}{211}, \frac{38}{211}, \frac{53}{211}, -\frac{38}{211}, -\frac{6}{211}, \frac{41}{211})$ $+ \frac{1}{211}\sqrt{4730}e^1 \otimes e_2 + \frac{1}{211}\sqrt{4906}e^4 \otimes e_7 + \frac{1}{211}\sqrt{7590}e^5 \otimes e_8$	{136789, 1567, 2378, 2579}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{1195}\sqrt{28482}e^{12}, \frac{36}{1195}\sqrt{202}e^{34},$ $\frac{4}{1195}\sqrt{26563}e^{15} + \frac{2}{1195}\sqrt{50298}e^{36}$	$(\frac{176}{1195}, -\frac{228}{1195}, \frac{21}{1195}, -\frac{228}{1195}, \frac{197}{1195}, \frac{352}{1195}, -\frac{52}{1195}, -\frac{207}{1195}, \frac{373}{1195})$ $+ \frac{2}{1195}\sqrt{126654}e^5 \otimes e_8 + \frac{2}{1195}\sqrt{1414}e^6 \otimes e_7 + \frac{2}{1195}\sqrt{93930}e^1 \otimes e_2$	{13689, 156, 234569, 2468}
93:26	$0, 0, 0, 0, 0, 0, \frac{10}{3229}\sqrt{11077}e^{12}, \frac{2}{3229}\sqrt{475145}e^{34},$ $\frac{4}{3229}\sqrt{15158}e^{15} + \frac{2}{3229}\sqrt{86867}e^{36}$	$(\frac{357}{3229}, \frac{809}{3229}, -\frac{663}{3229}, \frac{714}{3229}, \frac{197}{3229}, \frac{1217}{3229}, -\frac{452}{3229}, \frac{51}{3229}, \frac{554}{3229})$ $+ \frac{2}{3229}\sqrt{370205}e^1 \otimes e_2 + \frac{2}{3229}\sqrt{620895}e^6 \otimes e_8 + \frac{4}{3229}\sqrt{178981}e^4 \otimes e_7$	{13789, 1679, 235789, 25679}
93:26	$0, 0, 0, 0, 0, 0, \frac{7}{537}\sqrt{190}e^{12}, \frac{2}{537}\sqrt{1435}e^{34}, \frac{2}{537}\sqrt{2415}e^{15} + \frac{10}{537}\sqrt{7}e^{36}$	$(-\frac{35}{537}, \frac{19}{179}, -\frac{10}{179}, -\frac{40}{537}, \frac{19}{179}, \frac{52}{537}, \frac{22}{537}, -\frac{70}{537}, \frac{22}{537})$ $+ \frac{1}{179}\sqrt{1190}e^5 \otimes e_7 + \frac{2}{537}\sqrt{2590}e^2 \otimes e_9 + \frac{2}{537}\sqrt{3395}e^1 \otimes e_8$	{12345, 1256, 134679, 179, 2378, 24678, 35689, 4589}
93:26	$0, 0, 0, 0, 0, 0, \frac{7}{537}\sqrt{190}e^{12}, \frac{2}{537}\sqrt{1435}e^{34}, \frac{2}{537}\sqrt{2415}e^{15} + \frac{10}{537}\sqrt{7}e^{36}$	$(-\frac{35}{537}, \frac{19}{179}, -\frac{10}{179}, -\frac{40}{537}, \frac{19}{179}, \frac{52}{537}, \frac{22}{537}, -\frac{70}{537}, \frac{22}{537})$ $- \frac{1}{179}\sqrt{1190}e^5 \otimes e_7 + \frac{2}{537}\sqrt{2590}e^2 \otimes e_9 + \frac{2}{537}\sqrt{3395}e^1 \otimes e_8$	{12345, 1256, 134679, 179, 2378, 24678, 35689, 4589}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{557}\sqrt{5133}e^{12}, \frac{2}{557}\sqrt{609}e^{34}, \frac{2}{557}\sqrt{754}e^{15} + \frac{2}{557}\sqrt{3567}e^{36}$	$(-\frac{17}{557}, \frac{60}{557}, -\frac{99}{557}, \frac{24}{557}, \frac{19}{557}, \frac{101}{557}, \frac{43}{557}, -\frac{75}{557}, \frac{2}{557})$ $+ \frac{16}{557}\sqrt{87}e^2 \otimes e_9 + \frac{2}{557}\sqrt{4089}e^1 \otimes e_8 + \frac{2}{557}\sqrt{5191}e^6 \otimes e_7$	{123456, 13479, 2478, 45689}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{697}e^{12}, \frac{1}{94}\sqrt{1558}e^{34}, \frac{2}{47}\sqrt{41}e^{15} + \frac{1}{94}\sqrt{41}e^{36}$	$(\frac{21}{94}, \frac{45}{188}, -\frac{9}{94}, -\frac{19}{188}, -\frac{10}{47}, \frac{5}{47}, \frac{87}{188}, -\frac{37}{188}, \frac{1}{94})$ $+ \frac{1}{94}\sqrt{3854}e^2 \otimes e_8 + \frac{5}{94}\sqrt{123}e^1 \otimes e_5$	{1234, 126, 1378, 14678, 23457, 2567, 358, 4568}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{337}\sqrt{6690}e^{12}, \frac{5}{337}\sqrt{1338}e^{34},$ $\frac{9}{337}\sqrt{446}e^{15} + \frac{4}{337}\sqrt{1115}e^{36}$	$(\frac{122}{337}, -\frac{101}{337}, \frac{150}{337}, -\frac{39}{337}, -\frac{45}{337}, -\frac{73}{337}, \frac{21}{337}, \frac{111}{337}, \frac{77}{337})$ $+ \frac{1}{337}\sqrt{66454}e^3 \otimes e_6 + \frac{4}{337}\sqrt{4237}e^1 \otimes e_2$	{1345, 1358, 14568, 156, 234, 238, 2468, 26}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{12}, \frac{3}{13}\sqrt{5}e^{34}, \frac{3}{26}\sqrt{2}e^{15} + \frac{3}{26}\sqrt{2}e^{36}$	$(\frac{5}{13}, -\frac{1}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{26}\sqrt{46}e^1 \otimes e_5 + \frac{3}{26}\sqrt{46}e^3 \otimes e_6$	{1234, 1238, 12468, 126, 1378, 14678, 167, 245678, 2567, 56}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{353}\sqrt{2233}e^{12}, \frac{1}{353}\sqrt{13706}e^{34},$ $\frac{8}{353}\sqrt{154}e^{15} + \frac{3}{353}\sqrt{154}e^{36}$	$(-\frac{91}{353}, \frac{68}{353}, -\frac{49}{353}, \frac{54}{353}, \frac{82}{353}, \frac{40}{353}, -\frac{23}{353}, \frac{5}{353}, -\frac{9}{353})$ $+ \frac{1}{353}\sqrt{14630}e^2 \otimes e_9 + \frac{1}{353}\sqrt{17710}e^5 \otimes e_8 + \frac{28}{353}\sqrt{22}e^4 \otimes e_7$	{12345, 136789, 2378, 34569}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{965}\sqrt{97818}e^{12}, \frac{8}{965}\sqrt{357}e^{34},$ $\frac{1}{965}\sqrt{56882}e^{15} + \frac{4}{965}\sqrt{5117}e^{36}$	$(-\frac{238}{965}, \frac{249}{965}, -\frac{133}{965}, \frac{39}{965}, \frac{249}{965}, \frac{144}{965}, \frac{11}{965}, -\frac{94}{965}, \frac{11}{965})$ $+ \frac{1}{965}\sqrt{133994}e^5 \otimes e_7 + \frac{2}{965}\sqrt{27251}e^6 \otimes e_8 + \frac{7}{965}\sqrt{3570}e^2 \otimes e_9$	{123456, 12458, 13789, 1679, 23467, 2478, 3589, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{965}\sqrt{97818}e^{12}, \frac{8}{965}\sqrt{357}e^{34},$ $\frac{1}{965}\sqrt{56882}e^{15} + \frac{4}{965}\sqrt{5117}e^{36}$	$(-\frac{238}{965}, \frac{249}{965}, -\frac{133}{965}, \frac{39}{965}, \frac{249}{965}, \frac{144}{965}, \frac{11}{965}, -\frac{94}{965}, \frac{11}{965})$ $- \frac{1}{965}\sqrt{133994}e^5 \otimes e_7 + \frac{2}{965}\sqrt{27251}e^6 \otimes e_8 + \frac{7}{965}\sqrt{3570}e^2 \otimes e_9$	{123456, 12458, 13789, 1679, 23467, 2478, 3589, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{1569}\sqrt{89749}e^{12}, \frac{4}{1569}\sqrt{16687}e^{34},$ $\frac{5}{1569}\sqrt{13530}e^{15} + \frac{2}{1569}\sqrt{10373}e^{36}$	$(\frac{161}{1569}, \frac{137}{523}, -\frac{56}{523}, -\frac{122}{1569}, -\frac{67}{523}, \frac{128}{1569}, \frac{572}{1569}, -\frac{290}{1569}, -\frac{40}{1569})$ $+ \frac{1}{1569}\sqrt{572770}e^2 \otimes e_9 + \frac{4}{1569}\sqrt{42845}e^1 \otimes e_8$	{123456, 125, 13479, 1679, 23678, 2478, 3589, 45689}
93:26	$0, 0, 0, 0, 0, 0, \frac{14}{225}\sqrt{19}e^{12}, \frac{28}{225}\sqrt{11}e^{34}, \frac{56}{225}\sqrt{5}e^{15} + \frac{28}{225}e^{36}$	$(\frac{17}{75}, -\frac{47}{225}, -\frac{1}{9}, \frac{92}{225}, -\frac{19}{75}, \frac{225}{225}, \frac{4}{225}, \frac{67}{225}, -\frac{2}{75})$ $+ \frac{14}{225}\sqrt{113}e^4 \otimes e_9 + \frac{14}{225}\sqrt{89}e^1 \otimes e_2$	{13456, 1389, 1458, 169, 2346, 23589, 248, 2569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{4481}\sqrt{179310}e^{12}, \frac{24}{4481}\sqrt{4031}e^{34},$ $\frac{4}{4481}\sqrt{163047}e^{15} + \frac{6}{4481}\sqrt{41422}e^{36}$	$(\frac{339}{4481}, -\frac{495}{4481}, \frac{889}{4481}, -\frac{1118}{4481}, \frac{605}{4481}, \frac{55}{4481}, -\frac{156}{4481}, -\frac{229}{4481}, \frac{944}{4481})$ $+ \frac{2}{4481}\sqrt{499983}e^1 \otimes e_2 + \frac{2}{4481}\sqrt{790215}e^5 \otimes e_8 + \frac{6}{4481}\sqrt{51569}e^3 \otimes e_6$	{1345, 156, 238, 2468}
93:26	$0, 0, 0, 0, 0, 0, \frac{3}{55}\sqrt{23}e^{12}, \frac{6}{55}\sqrt{13}e^{34}, \frac{3}{55}\sqrt{86}e^{15} + \frac{3}{55}\sqrt{34}e^{36}$	$(\frac{3}{20}, -\frac{39}{220}, \frac{9}{110}, -\frac{27}{110}, \frac{9}{55}, \frac{51}{220}, -\frac{3}{110}, -\frac{9}{55}, \frac{69}{220})$ $+ \frac{3}{55}\sqrt{105}e^5 \otimes e_8 + \frac{3}{55}\sqrt{19}e^3 \otimes e_4 + \frac{3}{55}\sqrt{79}e^1 \otimes e_2$	{13689, 1489, 238, 2468}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{4401}\sqrt{23414}e^{12}, \frac{2}{4401}\sqrt{333395}e^{34},$ $\frac{4}{4401}\sqrt{188330}e^{15} + \frac{2}{4401}\sqrt{43265}e^{36}$	$(\frac{23}{1467}, -\frac{949}{4401}, -\frac{224}{4401}, \frac{1225}{4401}, \frac{46}{1467}, \frac{431}{4401}, -\frac{880}{4401}, \frac{1001}{4401}, \frac{23}{489})$ $+ \frac{2}{4401}\sqrt{635741}e^1 \otimes e_2 + \frac{2}{4401}\sqrt{780806}e^4 \otimes e_9 + \frac{4}{4401}\sqrt{161862}e^5 \otimes e_7$	{136789, 179, 2347, 24678}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{551}\sqrt{3470}e^{12}, \frac{2}{551}\sqrt{17697}e^{34},$ $\frac{12}{551}\sqrt{2082}e^{15} + \frac{2}{551}\sqrt{19779}e^{36}$	$(\frac{375}{551}, -\frac{11}{19}, \frac{102}{551}, \frac{45}{551}, -\frac{120}{551}, \frac{153}{551}, \frac{56}{551}, \frac{147}{551}, \frac{255}{551})$ $+ \frac{2}{551}\sqrt{157885}e^1 \otimes e_2$	{1345, 13469, 1358, 13689, 14568, 1489, 156, 19, 234, 234569, 235689, 238, 24589, 2468, 259, 26}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{42}e^{12}, \frac{1}{35}\sqrt{42}e^{34}, \frac{2}{35}\sqrt{7}e^{15} + \frac{1}{35}\sqrt{182}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{14}e^5 \otimes e_8 + \frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{4}{35}\sqrt{14}e^6 \otimes e_7$	{123468, 13579, 2457, 689}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{141}\sqrt{18258}e^{12}, \frac{1}{141}\sqrt{1790}e^{34},$ $\frac{2}{141}\sqrt{1074}e^{15} + \frac{1}{141}\sqrt{3938}e^{36}$	$(\frac{34}{47}, -\frac{25}{141}, \frac{10}{141}, \frac{7}{47}, -\frac{77}{141}, \frac{5}{47}, \frac{77}{141}, \frac{31}{141}, \frac{25}{141})$ $+ \frac{1}{141}\sqrt{41170}e^1 \otimes e_5$	{12, 12346, 12368, 1248, 13467, 13678, 1478, 17, 234567, 235678, 24578, 257, 3456, 3568, 458, 5}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{697}e^{12}, \frac{1}{94}\sqrt{1558}e^{34}, \frac{2}{47}\sqrt{41}e^{15} + \frac{1}{94}\sqrt{41}e^{36}$	$(\frac{21}{94}, -\frac{49}{188}, -\frac{9}{94}, \frac{75}{188}, -\frac{10}{47}, \frac{5}{47}, -\frac{7}{188}, \frac{57}{188}, \frac{1}{94})$ $+ \frac{1}{94}\sqrt{3854}e^4 \otimes e_7 + \frac{5}{94}\sqrt{123}e^1 \otimes e_5$	{1234, 12468, 1378, 167, 23578, 2567, 345, 4568}
93:26	$0, 0, 0, 0, 0, 0, \frac{30}{2809}\sqrt{897}e^{12}, \frac{40}{2809}\sqrt{533}e^{34},$ $\frac{130}{2809}\sqrt{61}e^{15} + \frac{20}{2809}\sqrt{1118}e^{36}$	$(\frac{210}{2809}, -\frac{357}{2809}, \frac{105}{2809}, -\frac{545}{2809}, \frac{503}{2809}, \frac{608}{2809}, -\frac{147}{2809}, -\frac{440}{2809}, \frac{713}{2809})$ $+ \frac{20}{2809}\sqrt{3354}e^5 \otimes e_7 + \frac{30}{2809}\sqrt{221}e^3 \otimes e_4 + \frac{40}{2809}\sqrt{1105}e^1 \otimes e_8$	{2378, 24678, 35689, 4589}
93:26	$0, 0, 0, 0, 0, 0, \frac{20}{1009}\sqrt{55}e^{12}, \frac{10}{1009}\sqrt{1105}e^{34},$ $\frac{60}{1009}\sqrt{30}e^{15} + \frac{10}{1009}\sqrt{565}e^{36}$	$(\frac{145}{1009}, -\frac{105}{1009}, -\frac{250}{1009}, \frac{263}{1009}, -\frac{132}{1009}, \frac{263}{1009}, \frac{40}{1009}, \frac{13}{1009}, \frac{13}{1009})$ $+ \frac{10}{1009}\sqrt{1165}e^1 \otimes e_2 + \frac{200}{1009}\sqrt{5}e^4 \otimes e_9 + \frac{20}{1009}\sqrt{365}e^6 \otimes e_8$	{13456, 1389, 1458, 169, 2346, 23589, 248, 2569}
93:26	$0, 0, 0, 0, 0, 0, \frac{20}{1009}\sqrt{55}e^{12}, \frac{10}{1009}\sqrt{1105}e^{34},$ $\frac{60}{1009}\sqrt{30}e^{15} + \frac{10}{1009}\sqrt{565}e^{36}$	$(\frac{145}{1009}, -\frac{105}{1009}, -\frac{250}{1009}, \frac{263}{1009}, -\frac{132}{1009}, \frac{263}{1009}, \frac{40}{1009}, \frac{13}{1009}, \frac{13}{1009})$ $+ \frac{10}{1009}\sqrt{1165}e^1 \otimes e_2 + \frac{200}{1009}\sqrt{5}e^4 \otimes e_9 - \frac{20}{1009}\sqrt{365}e^6 \otimes e_8$	{13456, 1389, 1458, 169, 2346, 23589, 248, 2569}
93:26	$0, 0, 0, 0, 0, 0, \frac{20}{369}\sqrt{5}e^{12}, \frac{10}{369}\sqrt{305}e^{34}, \frac{20}{369}\sqrt{70}e^{15} + \frac{10}{369}\sqrt{165}e^{36}$	$(\frac{145}{369}, -\frac{35}{123}, -\frac{50}{369}, -\frac{17}{369}, -\frac{4}{123}, \frac{61}{123}, \frac{40}{369}, -\frac{67}{369}, \frac{133}{369})$ $+ \frac{10}{123}\sqrt{85}e^1 \otimes e_2 + \frac{4}{369}\sqrt{215}e^6 \otimes e_8$	{13456, 1389, 1458, 169, 2346, 23589, 248, 2569}
93:26	$0, 0, 0, 0, 0, 0, \frac{24}{865}\sqrt{82}e^{12}, \frac{3}{865}\sqrt{1558}e^{34},$ $\frac{3}{865}\sqrt{16154}e^{15} + \frac{3}{865}\sqrt{1394}e^{36}$	$(\frac{96}{865}, -\frac{273}{865}, \frac{231}{865}, -\frac{138}{865}, \frac{192}{865}, \frac{57}{865}, -\frac{177}{865}, \frac{93}{865}, \frac{288}{865})$ $+ \frac{3}{865}\sqrt{15826}e^3 \otimes e_4 + \frac{3}{865}\sqrt{23206}e^1 \otimes e_2 + \frac{9}{865}\sqrt{2870}e^5 \otimes e_7$	{13789, 146789, 23678, 2478}
93:26	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{8778}e^{12}, \frac{1}{215}\sqrt{8778}e^{34},$ $\frac{2}{215}\sqrt{1463}e^{15} + \frac{2}{215}\sqrt{1463}e^{36}$	$(-\frac{28}{215}, -\frac{6}{215}, -\frac{28}{215}, -\frac{6}{215}, \frac{99}{215}, \frac{99}{215}, -\frac{34}{215}, -\frac{34}{215}, \frac{71}{215})$ $+ \frac{2}{215}\sqrt{6251}e^5 \otimes e_8 + \frac{2}{215}\sqrt{6251}e^6 \otimes e_7$	{123456, 124689, 13789, 157, 2478, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{353}\sqrt{9389}e^{12}, \frac{1}{353}\sqrt{6870}e^{34},$ $\frac{1}{353}\sqrt{2290}e^{15} + \frac{1}{353}\sqrt{39846}e^{36}$	$(\frac{77}{353}, -\frac{152}{353}, -\frac{30}{353}, \frac{57}{353}, \frac{47}{353}, \frac{154}{353}, -\frac{75}{353}, \frac{27}{353}, \frac{124}{353})$ $+ \frac{4}{353}\sqrt{91142}e^6 \otimes e_7 + \frac{4}{353}\sqrt{3206}e^1 \otimes e_2$	{1345789, 13579, 147, 178, 234789, 2379, 2457, 2578}
93:26	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{12}, \frac{10}{49}\sqrt{2}e^{34}, \frac{4}{49}\sqrt{10}e^{15} + \frac{2}{49}\sqrt{10}e^{36}$	$(\frac{6}{49}, -\frac{3}{49}, -\frac{3}{14}, \frac{17}{98}, -\frac{11}{98}, \frac{11}{98}, \frac{3}{49}, -\frac{2}{49}, \frac{1}{98})$ $+ \frac{12}{49}e^6 \otimes e_7 + \frac{2}{49}\sqrt{66}e^4 \otimes e_9 + \frac{4}{49}\sqrt{19}e^1 \otimes e_8$	{123456, 1269, 235789, 2478}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{921}\sqrt{2055}e^{12}, \frac{1}{921}\sqrt{108230}e^{34},$ $\frac{4}{307}\sqrt{274}e^{15} + \frac{1}{921}\sqrt{88502}e^{36}$	$(\frac{40}{307}, \frac{25}{921}, -\frac{274}{921}, \frac{80}{307}, -\frac{154}{921}, \frac{80}{307}, \frac{145}{921}, -\frac{34}{921}, -\frac{34}{921})$ $- \frac{1}{921}\sqrt{173442}e^6 \otimes e_8 + \frac{1}{921}\sqrt{193170}e^4 \otimes e_9 + \frac{2}{921}\sqrt{22879}e^1 \otimes e_5$	{12389, 1269, 13789, 1679, 235789, 25679, 3589, 569}
93:26	$0, 0, 0, 0, 0, 0, \frac{4}{921}\sqrt{2055}e^{12}, \frac{1}{921}\sqrt{108230}e^{34},$ $\frac{4}{307}\sqrt{274}e^{15} + \frac{1}{921}\sqrt{88502}e^{36}$	$(\frac{40}{307}, \frac{25}{921}, -\frac{274}{921}, \frac{80}{307}, -\frac{154}{921}, \frac{80}{307}, \frac{145}{921}, -\frac{34}{921}, -\frac{34}{921})$ $+ \frac{1}{921}\sqrt{173442}e^6 \otimes e_8 + \frac{1}{921}\sqrt{193170}e^4 \otimes e_9 + \frac{2}{921}\sqrt{22879}e^1 \otimes e_5$	{12389, 1269, 13789, 1679, 235789, 25679, 3589, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:26	$0, 0, 0, 0, 0, \frac{1}{1819}\sqrt{271830}e^{12}, \frac{6}{1819}\sqrt{17015}e^{34},$ $\frac{1}{1819}\sqrt{995070}e^{15} + \frac{3}{1819}\sqrt{52890}e^{36}$	$(\frac{270}{1819}, -\frac{345}{1819}, \frac{35}{1819}, -\frac{352}{1819}, \frac{298}{1819}, \frac{533}{1819}, -\frac{75}{1819}, -\frac{317}{1819}, \frac{568}{1819})$ $+ \frac{31}{1819}\sqrt{1230}e^5 \otimes e_8 + \frac{4}{1819}\sqrt{54735}e^1 \otimes e_2$	{1345, 13689, 1489, 156, 234569, 238, 2468, 259}
93:26	$0, 0, 0, 0, 0, \frac{2}{3769}\sqrt{266385}e^{12}, \frac{2}{3769}\sqrt{374591}e^{34},$ $\frac{118}{3769}\sqrt{77}e^{15} + \frac{4}{3769}\sqrt{1239}e^{36}$	$(-\frac{959}{3769}, \frac{879}{3769}, -\frac{560}{3769}, \frac{613}{3769}, \frac{746}{3769}, \frac{347}{3769}, -\frac{80}{3769}, \frac{53}{3769}, -\frac{213}{3769})$ $+ \frac{2}{3769}\sqrt{489405}e^4 \otimes e_9 + \frac{2}{3769}\sqrt{491057}e^2 \otimes e_8 + \frac{4}{3769}\sqrt{109445}e^5 \otimes e_7$	{12345, 136789, 2347, 35689}
93:26	$0, 0, 0, 0, 0, \frac{3}{1817}\sqrt{107198}e^{12}, \frac{3}{1817}\sqrt{10738}e^{34},$ $\frac{30}{1817}\sqrt{91}e^{15} + \frac{6}{1817}\sqrt{17017}e^{36}$	$(\frac{262}{1817}, \frac{524}{1817}, -\frac{118}{1817}, \frac{256}{1817}, -\frac{557}{1817}, -\frac{177}{1817}, \frac{786}{1817}, \frac{6}{1817}, -\frac{295}{1817})$ $+ \frac{24}{1817}\sqrt{2002}e^1 \otimes e_5 + \frac{6}{1817}\sqrt{41678}e^2 \otimes e_9$	{134789, 1379, 14679, 16789, 34589, 359, 4569, 5689}
93:26	$0, 0, 0, 0, 0, \frac{1}{1849}\sqrt{491946}e^{12}, \frac{21}{1849}\sqrt{318}e^{34},$ $\frac{14}{1849}\sqrt{530}e^{15} + \frac{22}{1849}\sqrt{1113}e^{36}$	$(-\frac{364}{1849}, \frac{306}{1849}, -\frac{378}{1849}, \frac{348}{1849}, \frac{299}{1849}, \frac{313}{1849}, -\frac{58}{1849}, -\frac{30}{1849}, -\frac{65}{1849})$ $+ \frac{18}{1849}\sqrt{1855}e^2 \otimes e_9 + \frac{4}{1849}\sqrt{40810}e^6 \otimes e_7$	{123468, 1236, 1345789, 13579, 2457, 2578, 469, 689}
93:26	$0, 0, 0, 0, 0, \frac{45}{1463}\sqrt{158}e^{12}, \frac{8}{1463}\sqrt{395}e^{34},$ $\frac{1}{1463}\sqrt{81370}e^{15} + \frac{6}{1463}\sqrt{8295}e^{36}$	$(\frac{221}{1463}, -\frac{282}{1463}, -\frac{41}{209}, \frac{442}{1463}, -\frac{174}{1463}, \frac{334}{1463}, -\frac{61}{1463}, \frac{155}{1463}, \frac{47}{1463})$ $+ \frac{1}{1463}\sqrt{465310}e^6 \otimes e_7 + \frac{20}{1463}\sqrt{790}e^1 \otimes e_5 + \frac{3}{1463}\sqrt{30810}e^4 \otimes e_9$	{12346, 1478, 24578, 3456}
93:26	$0, 0, 0, 0, 0, \frac{2}{303}\sqrt{6313}e^{12}, \frac{1}{303}\sqrt{6634}e^{34},$ $\frac{1}{303}\sqrt{10914}e^{15} + \frac{1}{303}\sqrt{13910}e^{36}$	$(-\frac{37}{303}, \frac{40}{303}, -\frac{22}{101}, -\frac{1}{303}, \frac{27}{101}, \frac{110}{303}, \frac{1}{303}, -\frac{67}{303}, \frac{44}{303})$ $+ \frac{16}{303}\sqrt{107}e^2 \otimes e_8 + \frac{1}{303}\sqrt{31030}e^6 \otimes e_7$	{12346, 12569, 135789, 1478, 23479, 257, 3568, 4689}
93:26	$0, 0, 0, 0, 0, \frac{6}{205}\sqrt{17}e^{12}, \frac{6}{205}\sqrt{17}e^{34}, \frac{3}{205}\sqrt{986}e^{15} + \frac{3}{205}\sqrt{986}e^{36}$	$(\frac{87}{205}, -\frac{66}{205}, \frac{87}{205}, -\frac{66}{205}, -\frac{6}{205}, -\frac{6}{205}, \frac{21}{205}, \frac{21}{205}, \frac{81}{205})$ $+ \frac{3}{205}\sqrt{3094}e^1 \otimes e_2 + \frac{3}{205}\sqrt{3094}e^3 \otimes e_4$	{1356, 139, 145, 1469, 24, 24569}
93:26	$0, 0, 0, 0, 0, \frac{4}{23}\sqrt{22}e^{12}, \frac{4}{23}\sqrt{22}e^{34}, \frac{2}{23}\sqrt{11}e^{15} + \frac{2}{23}\sqrt{11}e^{36}$	$(-\frac{3}{23}, \frac{15}{23}, -\frac{3}{23}, -\frac{4}{23}, \frac{5}{23}, \frac{12}{23}, -\frac{7}{23}, \frac{2}{23})$ $+ \frac{2}{23}\sqrt{209}e^2 \otimes e_8$	{1234, 1234569, 1259, 126, 1356789, 1378, 145789, 14678, 23457, 234679, 2567, 279, 358, 3689, 4568, 489}
93:27	$0, 0, 0, 0, 0, \frac{2}{2949}\sqrt{548270}e^{12}, \frac{4}{2949}\sqrt{45773}e^{13},$ $\frac{2}{2949}\sqrt{324435}e^{14} + \frac{4}{2949}\sqrt{5030}e^{23} + \frac{4}{2949}\sqrt{101606}e^{56}$	$(-\frac{174}{983}, \frac{149}{983}, -\frac{37}{2949}, \frac{932}{2949}, \frac{931}{2949}, -\frac{521}{2949}, \frac{25}{983}, \frac{559}{2949}, \frac{410}{2949})$ $+ \frac{22}{2949}\sqrt{5030}e^2 \otimes e_8 + \frac{44}{2949}\sqrt{1509}e^5 \otimes e_7$	{123459, 146789, 247, 34568}
93:27	$0, 0, 0, 0, 0, \frac{27}{1741}\sqrt{761}e^{12}, \frac{27}{1741}\sqrt{177}e^{13},$ $\frac{81}{1741}\sqrt{13}e^{14} + \frac{108}{1741}\sqrt{11}e^{23} + \frac{27}{1741}\sqrt{2}e^{56}$	$(-\frac{378}{1741}, \frac{324}{1741}, -\frac{27}{1741}, \frac{675}{1741}, \frac{513}{1741}, -\frac{216}{1741}, -\frac{54}{1741}, -\frac{405}{1741}, \frac{297}{1741})$ $+ \frac{108}{1741}\sqrt{73}e^4 \otimes e_7 + \frac{27}{1741}\sqrt{1286}e^2 \otimes e_8 + \frac{729}{1741}e^5 \otimes e_6$	{34589, 34689}
93:27	$0, 0, 0, 0, 0, \frac{10}{263}\sqrt{65}e^{12}, \frac{10}{263}\sqrt{65}e^{13},$ $\frac{10}{263}\sqrt{59}e^{14} + \frac{10}{263}\sqrt{62}e^{23} + \frac{10}{263}\sqrt{6}e^{56}$	$(-\frac{50}{263}, \frac{15}{263}, \frac{15}{263}, \frac{80}{263}, \frac{15}{263}, \frac{15}{263}, -\frac{35}{263}, -\frac{35}{263}, \frac{30}{263})$ $+ \frac{110}{263}e^2 \otimes e_8 - \frac{110}{263}e^3 \otimes e_7$	{123, 12356, 15678, 178, 2579}
93:27	$0, 0, 0, 0, 0, \frac{10}{263}\sqrt{65}e^{12}, \frac{10}{263}\sqrt{65}e^{13},$ $\frac{10}{263}\sqrt{59}e^{14} + \frac{10}{263}\sqrt{62}e^{23} + \frac{10}{263}\sqrt{6}e^{56}$	$(-\frac{50}{263}, \frac{15}{263}, \frac{15}{263}, \frac{80}{263}, \frac{15}{263}, \frac{15}{263}, -\frac{35}{263}, -\frac{35}{263}, \frac{30}{263})$ $+ \frac{110}{263}e^2 \otimes e_8 + \frac{110}{263}e^3 \otimes e_7$	{123, 12356, 15678, 178, 2579}
93:27	$0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12}, \frac{1}{3}\sqrt{6}e^{13},$ $\frac{1}{3}\sqrt{3}e^{14} + \frac{1}{3}\sqrt{3}e^{23} + \frac{1}{3}\sqrt{3}e^{56}$	$(\frac{1}{2}, 0, 0, -\frac{1}{2}, 0, 0, \frac{1}{2}, \frac{1}{2}, 0)$ $+ \frac{1}{3}\sqrt{15}e^1 \otimes e_4$	{12568, 128, 24567, 247}
93:27	$0, 0, 0, 0, 0, \frac{1}{12}\sqrt{30}e^{12}, \frac{1}{6}\sqrt{3}e^{13},$ $\frac{1}{12}\sqrt{15}e^{14} + \frac{1}{12}\sqrt{15}e^{23} + \frac{1}{6}\sqrt{6}e^{56}$	$(\frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{4}, 0, \frac{1}{4}, 0)$ $+ \frac{1}{12}\sqrt{30}e^1 \otimes e_4 + \frac{1}{2}e^5 \otimes e_7$	{12568, 137, 247, 34568}
93:27	$0, 0, 0, 0, 0, \frac{5}{144}\sqrt{65}e^{12}, \frac{5}{144}\sqrt{65}e^{13},$ $\frac{5}{144}\sqrt{59}e^{14} + \frac{5}{144}\sqrt{62}e^{23} + \frac{5}{144}\sqrt{6}e^{56}$	$(-\frac{25}{144}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, \frac{5}{36}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+ \frac{25}{144}e^5 \otimes e_6 + \frac{5}{144}e^2 \otimes e_8 - \frac{5}{144}e^3 \otimes e_7$	{2579, 2679}
93:27	$0, 0, 0, 0, 0, \frac{5}{144}\sqrt{65}e^{12}, \frac{5}{144}\sqrt{65}e^{13},$ $\frac{5}{144}\sqrt{59}e^{14} + \frac{5}{144}\sqrt{62}e^{23} + \frac{5}{144}\sqrt{6}e^{56}$	$(-\frac{25}{144}, \frac{5}{96}, \frac{5}{96}, \frac{5}{18}, \frac{5}{36}, -\frac{5}{144}, -\frac{35}{288}, -\frac{35}{288}, \frac{5}{48})$ $+ \frac{25}{144}e^5 \otimes e_6 + \frac{5}{144}e^2 \otimes e_8 + \frac{5}{144}e^3 \otimes e_7$	{2579, 2679}
93:27	$0, 0, 0, 0, 0, \frac{13}{142}\sqrt{85}e^{12}, \frac{3}{284}\sqrt{442}e^{13},$ $\frac{1}{284}\sqrt{25415}e^{14} + \frac{1}{284}\sqrt{25415}e^{23} + \frac{1}{284}\sqrt{58786}e^{56}$	$(-\frac{79}{568}, -\frac{61}{568}, \frac{181}{568}, \frac{199}{568}, \frac{151}{284}, -\frac{91}{284}, -\frac{35}{142}, \frac{51}{284}, \frac{15}{71})$ $+ \frac{11}{142}\sqrt{221}e^5 \otimes e_7$	{123459, 12568, 137, 146789, 236789, 247, 34568, 59}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:27	$0, 0, 0, 0, 0, 0, \frac{6}{71}\sqrt{19}e^{12}, \frac{6}{71}\sqrt{19}e^{13},$ $\frac{2}{71}\sqrt{57}e^{14} + \frac{2}{71}\sqrt{57}e^{23} + \frac{4}{71}\sqrt{57}e^{56}$	$(\frac{7}{71}, \frac{10}{71}, \frac{10}{71}, \frac{13}{71}, \frac{67}{71}, -\frac{47}{71}, \frac{17}{71}, \frac{17}{71}, \frac{20}{71})$ $+ \frac{114}{71}e^5 \otimes e_6$	{12589, 12689, 24579, 24679}
93:27	$0, 0, 0, 0, 0, 0, \frac{2}{321}\sqrt{1410}e^{12}, \frac{2}{321}\sqrt{762}e^{13},$ $\frac{4}{321}\sqrt{210}e^{14} + \frac{20}{321}\sqrt{3}e^{23} + \frac{2}{321}\sqrt{894}e^{56}$	$(\frac{4}{107}, \frac{6}{107}, -\frac{6}{107}, -\frac{4}{107}, \frac{18}{107}, -\frac{18}{107}, \frac{10}{107}, -\frac{2}{107}, 0)$ $+ \frac{24}{107}e^5 \otimes e_7 + \frac{2}{321}\sqrt{1230}e^1 \otimes e_4 + \frac{4}{107}\sqrt{30}e^2 \otimes e_8$	{247, 34568}
93:27	$0, 0, 0, 0, 0, 0, \frac{2}{861}\sqrt{5681}e^{12}, \frac{26}{861}\sqrt{115}e^{13},$ $\frac{10}{861}\sqrt{2093}e^{14} + \frac{287}{861}\sqrt{18239}e^{23} + \frac{4}{861}\sqrt{598}e^{56}$	$(-\frac{191}{861}, -\frac{20}{861}, \frac{72}{287}, \frac{129}{287}, \frac{397}{861}, -\frac{67}{287}, \frac{211}{861}, \frac{25}{861}, \frac{28}{123})$ $+ \frac{4}{861}\sqrt{35282}e^4 \otimes e_7 + \frac{598}{861}e^5 \otimes e_6$	{1245, 1246, 2578, 2678}
93:27	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{9869}e^{12}, \frac{1}{215}\sqrt{9869}e^{13},$ $\frac{1}{215}\sqrt{7923}e^{14} + \frac{8}{215}\sqrt{139}e^{23} + \frac{1}{215}\sqrt{1946}e^{56}$	$(-\frac{18}{215}, \frac{78}{215}, -\frac{1}{5}, \frac{53}{215}, \frac{87}{215}, -\frac{52}{215}, \frac{12}{43}, -\frac{61}{215}, \frac{7}{43})$ $+ \frac{11}{215}\sqrt{278}e^2 \otimes e_8 + \frac{139}{215}e^5 \otimes e_6$	{2579, 2679, 3589, 3689}
93:27	$0, 0, 0, 0, 0, 0, \frac{54}{2753}\sqrt{761}e^{12}, \frac{54}{2753}\sqrt{177}e^{13},$ $\frac{162}{2753}\sqrt{13}e^{14} + \frac{216}{2753}\sqrt{11}e^{23} + \frac{54}{2753}\sqrt{2}e^{56}$	$(-\frac{756}{2753}, \frac{648}{2753}, -\frac{54}{2753}, \frac{1350}{2753}, \frac{297}{2753}, \frac{297}{2753}, -\frac{108}{2753}, -\frac{810}{2753}, \frac{594}{2753})$ $+ \frac{216}{2753}\sqrt{73}e^4 \otimes e_7 + \frac{54}{2753}\sqrt{1286}e^2 \otimes e_8$	{1234, 123456, 34589}
93:27	$0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{69}e^{12}, \frac{2}{39}\sqrt{69}e^{13},$ $\frac{8}{39}\sqrt{3}e^{14} + \frac{2}{39}\sqrt{6}e^{23} + \frac{2}{39}\sqrt{21}e^{56}$	$(\frac{2}{13}, \frac{3}{13}, -\frac{3}{13}, -\frac{2}{13}, 0, 0, \frac{5}{13}, -\frac{1}{13}, 0)$ $+ \frac{2}{39}\sqrt{105}e^1 \otimes e_4 + \frac{4}{13}\sqrt{3}e^2 \otimes e_8$	{123, 12356, 15678, 178}
93:27	$0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{9869}e^{12}, \frac{2}{291}\sqrt{9869}e^{13},$ $\frac{2}{291}\sqrt{7923}e^{14} + \frac{16}{291}\sqrt{139}e^{23} + \frac{2}{291}\sqrt{1946}e^{56}$	$(-\frac{12}{97}, \frac{52}{97}, -\frac{86}{291}, \frac{106}{291}, \frac{35}{291}, \frac{35}{291}, \frac{40}{97}, -\frac{122}{291}, \frac{70}{291})$ $+ \frac{22}{291}\sqrt{278}e^2 \otimes e_8$	{123, 12356, 15678, 178, 2579, 3589}
93:27	$0, 0, 0, 0, 0, 0, \frac{3}{281}\sqrt{5681}e^{12}, \frac{13}{281}\sqrt{115}e^{13},$ $\frac{5}{281}\sqrt{2093}e^{14} + \frac{1}{281}\sqrt{18239}e^{23} + \frac{2}{281}\sqrt{598}e^{56}$	$(-\frac{191}{562}, -\frac{10}{281}, \frac{108}{281}, \frac{387}{562}, \frac{49}{281}, \frac{49}{281}, -\frac{211}{562}, \frac{25}{562}, \frac{98}{281})$ $+ \frac{2}{281}\sqrt{35282}e^4 \otimes e_7$	{1245, 15679, 179, 2578, 45689, 489}
93:28	$0, 0, 0, 0, 0, 0, \frac{12}{155}\sqrt{38}e^{12}, \frac{12}{155}\sqrt{38}e^{13},$ $\frac{2}{155}\sqrt{627}e^{14} + \frac{155}{155}\sqrt{57}e^{25} + \frac{2}{155}\sqrt{57}e^{36}$	$(-\frac{4}{31}, \frac{61}{155}, \frac{61}{155}, \frac{28}{155}, -\frac{53}{155}, -\frac{53}{155}, \frac{41}{155}, \frac{41}{155}, \frac{8}{155})$ $+ \frac{6}{155}\sqrt{437}e^2 \otimes e_5 + \frac{6}{155}\sqrt{437}e^3 \otimes e_6$	{12349, 124689, 1456789, 23789, 2679, 569}
93:28	$0, 0, 0, 0, 0, 0, \frac{11}{1669}\sqrt{3106}e^{12}, \frac{11}{1669}\sqrt{1914}e^{13},$ $\frac{22}{1669}\sqrt{299}e^{14} + \frac{22}{1669}\sqrt{359}e^{25} + \frac{154}{1669}\sqrt{13}e^{36}$	$(\frac{77}{1669}, \frac{77}{1669}, -\frac{242}{1669}, -\frac{44}{1669}, -\frac{44}{1669}, \frac{275}{1669}, \frac{154}{1669}, -\frac{165}{1669}, \frac{33}{1669})$ $+ \frac{11}{1669}\sqrt{1434}e^4 \otimes e_8 + \frac{22}{1669}\sqrt{737}e^6 \otimes e_7 + \frac{33}{1669}\sqrt{186}e^2 \otimes e_5$	{157, 2478}
93:28	$0, 0, 0, 0, 0, 0, \frac{22}{1669}\sqrt{418}e^{12}, \frac{44}{1669}\sqrt{30}e^{13},$ $\frac{11}{1669}\sqrt{479}e^{14} + \frac{11}{1669}\sqrt{719}e^{25} + \frac{11}{1669}\sqrt{1114}e^{36}$	$(\frac{77}{1669}, \frac{77}{1669}, -\frac{242}{1669}, -\frac{44}{1669}, -\frac{44}{1669}, \frac{275}{1669}, \frac{154}{1669}, -\frac{165}{1669}, \frac{33}{1669})$ $+ \frac{11}{1669}\sqrt{1514}e^6 \otimes e_7 + \frac{11}{1669}\sqrt{717}e^1 \otimes e_4 - \frac{11}{1669}\sqrt{957}e^2 \otimes e_5$	{12368, 157, 2478, 3456}
93:28	$0, 0, 0, 0, 0, 0, \frac{22}{1669}\sqrt{418}e^{12}, \frac{44}{1669}\sqrt{30}e^{13},$ $\frac{11}{1669}\sqrt{479}e^{14} + \frac{11}{1669}\sqrt{719}e^{25} + \frac{11}{1669}\sqrt{1114}e^{36}$	$(\frac{77}{1669}, \frac{77}{1669}, -\frac{242}{1669}, -\frac{44}{1669}, -\frac{44}{1669}, \frac{275}{1669}, \frac{154}{1669}, -\frac{165}{1669}, \frac{33}{1669})$ $+ \frac{11}{1669}\sqrt{1514}e^6 \otimes e_7 + \frac{11}{1669}\sqrt{717}e^1 \otimes e_4 + \frac{11}{1669}\sqrt{957}e^2 \otimes e_5$	{12368, 157, 2478, 3456}
93:28	$0, 0, 0, 0, 0, 0, \frac{32}{53}e^{12}, \frac{8}{53}\sqrt{31}e^{13},$ $\frac{16}{53}\sqrt{2}e^{14} + \frac{8}{53}\sqrt{31}e^{25} + \frac{32}{53}e^{36}$	$(-\frac{1}{53}, -\frac{9}{53}, -\frac{9}{53}, \frac{14}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{13}{53})$ $+ \frac{8}{53}\sqrt{47}e^5 \otimes e_8$	{12357, 124789, 134569, 168, 23689, 2456, 3478, 579}
93:28	$0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{105}e^{12}, \frac{1}{131}\sqrt{4242}e^{13},$ $\frac{1}{131}\sqrt{2310}e^{14} + \frac{2}{131}\sqrt{966}e^{25} + \frac{21}{131}\sqrt{6}e^{36}$	$(-\frac{107}{524}, -\frac{43}{524}, \frac{21}{524}, \frac{125}{262}, \frac{93}{262}, \frac{61}{262}, -\frac{75}{262}, -\frac{43}{262}, \frac{143}{524})$ $+ \frac{3}{131}\sqrt{1022}e^5 \otimes e_7 + \frac{6}{131}\sqrt{287}e^4 \otimes e_8$	{12345, 1347, 2479, 459}
93:28	$0, 0, 0, 0, 0, 0, \frac{42}{3125}\sqrt{1518}e^{12}, \frac{2}{3125}\sqrt{18354}e^{13},$ $\frac{2}{3125}\sqrt{263235}e^{14} + \frac{2}{3125}\sqrt{254058}e^{25} + \frac{14}{3125}\sqrt{9798}e^{36}$	$(-\frac{622}{3125}, \frac{573}{3125}, \frac{917}{3125}, \frac{802}{3125}, -\frac{393}{3125}, -\frac{737}{3125}, -\frac{49}{3125}, \frac{59}{625}, \frac{36}{625})$ $+ \frac{12}{3125}\sqrt{22701}e^3 \otimes e_7 + \frac{84}{3125}\sqrt{322}e^2 \otimes e_5$	{1236, 1578, 247, 34568}
93:28	$0, 0, 0, 0, 0, 0, \frac{22}{815}\sqrt{161}e^{12}, \frac{22}{815}\sqrt{161}e^{13},$ $\frac{22}{815}\sqrt{131}e^{14} + \frac{22}{815}\sqrt{67}e^{25} + \frac{22}{815}\sqrt{67}e^{36}$	$(\frac{154}{815}, -\frac{33}{163}, \frac{33}{163}, -\frac{88}{815}, \frac{231}{815}, \frac{231}{815}, -\frac{11}{815}, -\frac{11}{815}, \frac{66}{815})$ $+ \frac{22}{815}\sqrt{235}e^5 \otimes e_7 + \frac{22}{815}\sqrt{235}e^6 \otimes e_8 + \frac{22}{815}\sqrt{282}e^1 \otimes e_4$	{12356, 1258, 178}
93:28	$0, 0, 0, 0, 0, 0, \frac{22}{815}\sqrt{161}e^{12}, \frac{22}{815}\sqrt{161}e^{13},$ $\frac{22}{815}\sqrt{131}e^{14} + \frac{22}{815}\sqrt{67}e^{25} + \frac{22}{815}\sqrt{67}e^{36}$	$(\frac{154}{815}, -\frac{33}{163}, -\frac{33}{163}, -\frac{88}{815}, \frac{231}{815}, \frac{231}{815}, -\frac{11}{815}, -\frac{11}{815}, \frac{66}{815})$ $+ \frac{22}{815}\sqrt{235}e^5 \otimes e_7 - \frac{22}{815}\sqrt{235}e^6 \otimes e_8 + \frac{22}{815}\sqrt{282}e^1 \otimes e_4$	{12356, 1258, 178}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:28	$0, 0, 0, 0, 0, 0, \frac{34}{1039}\sqrt{178e^{12}}, \frac{2}{1039}\sqrt{24742e^{13}},$ $\frac{2}{1039}\sqrt{12371e^{14}} + \frac{2}{1039}\sqrt{24742e^{25}} + \frac{4}{1039}\sqrt{10057e^{36}}$	$(-\frac{104}{1039}, \frac{135}{1039}, -\frac{117}{1039}, \frac{196}{1039}, -\frac{43}{1039}, \frac{209}{1039}, \frac{31}{1039}, -\frac{221}{1039}, \frac{92}{1039})$ $+ \frac{4}{1039}\sqrt{13439e^6} \otimes e_7 + \frac{6}{1039}\sqrt{3738e^2} \otimes e_5$	{12368, 157, 2478, 3456}
93:28	$0, 0, 0, 0, 0, 0, \frac{15}{101}e^{12}, \frac{3}{101}\sqrt{30e^{13}},$ $\frac{1}{101}\sqrt{205e^{14}} + \frac{3}{101}\sqrt{30e^{25}} + \frac{1}{202}\sqrt{370e^{36}}$	$(\frac{4}{101}, -\frac{3}{101}, -\frac{12}{101}, -\frac{1}{101}, \frac{6}{101}, \frac{15}{101}, \frac{1}{101}, -\frac{8}{101}, \frac{3}{101})$ $+ \frac{1}{202}\sqrt{1090e^1} \otimes e_4 + \frac{1}{202}\sqrt{1090e^5} \otimes e_7 + \frac{1}{202}\sqrt{1630e^2} \otimes e_8$	{1235, 1678}
93:28	$0, 0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31e^{12}}, \frac{1}{85}\sqrt{93e^{13}},$ $\frac{1}{85}\sqrt{2139e^{14}} + \frac{12}{85}\sqrt{31e^{25}} + \frac{1}{85}\sqrt{93e^{36}}$	$(\frac{3}{170}, -\frac{67}{170}, \frac{27}{170}, \frac{26}{85}, \frac{61}{85}, \frac{14}{85}, -\frac{32}{85}, \frac{3}{17}, \frac{11}{34})$ $+ \frac{3}{85}\sqrt{1457e^5} \otimes e_7$	{12356, 1258, 1367, 178, 23789, 2679, 3589, 569}
93:28	$0, 0, 0, 0, 0, 0, \frac{33}{259}\sqrt{6e^{12}}, \frac{11}{518}\sqrt{462e^{13}},$ $\frac{11}{259}\sqrt{123e^{14}} + \frac{11}{259}\sqrt{15e^{25}} + \frac{11}{518}\sqrt{183e^{36}}$	$(-\frac{275}{1036}, \frac{33}{74}, \frac{11}{518}, \frac{473}{1036}, -\frac{66}{259}, \frac{44}{259}, \frac{187}{1036}, -\frac{253}{1036}, \frac{99}{518})$ $+ \frac{33}{518}\sqrt{133e^2} \otimes e_5 + \frac{11}{518}\sqrt{174e^4} \otimes e_8$	{1234, 13457, 2378, 358}
93:28	$0, 0, 0, 0, 0, 0, \frac{46}{1745}\sqrt{213e^{12}}, \frac{46}{1745}\sqrt{141e^{13}},$ $\frac{23}{1745}\sqrt{479e^{14}} + \frac{46}{1745}\sqrt{197e^{25}} + \frac{23}{1745}\sqrt{470e^{36}}$	$(\frac{276}{1745}, \frac{276}{1745}, -\frac{391}{1745}, -\frac{253}{1745}, -\frac{253}{1745}, \frac{414}{1745}, \frac{552}{1745}, -\frac{23}{1745}, \frac{23}{1745})$ $+ \frac{23}{1745}\sqrt{1046e^6} \otimes e_8 + \frac{23}{1745}\sqrt{1237e^1} \otimes e_4 - \frac{23}{1745}\sqrt{955e^2} \otimes e_5$	{1236, 128, 13567, 1578}
93:28	$0, 0, 0, 0, 0, 0, \frac{46}{1745}\sqrt{213e^{12}}, \frac{46}{1745}\sqrt{141e^{13}},$ $\frac{23}{1745}\sqrt{479e^{14}} + \frac{46}{1745}\sqrt{197e^{25}} + \frac{23}{1745}\sqrt{470e^{36}}$	$(\frac{276}{1745}, \frac{276}{1745}, -\frac{391}{1745}, -\frac{253}{1745}, -\frac{253}{1745}, \frac{414}{1745}, \frac{552}{1745}, -\frac{23}{1745}, \frac{23}{1745})$ $+ \frac{23}{1745}\sqrt{1046e^6} \otimes e_8 + \frac{23}{1745}\sqrt{1237e^1} \otimes e_4 + \frac{23}{1745}\sqrt{955e^2} \otimes e_5$	{1236, 128, 13567, 1578}
93:28	$0, 0, 0, 0, 0, 0, \frac{2}{475}\sqrt{16554e^{12}}, \frac{4}{475}\sqrt{89e^{13}},$ $\frac{2}{475}\sqrt{8099e^{14}} + \frac{4}{475}\sqrt{89e^{25}} + \frac{4}{475}\sqrt{2759e^{36}}$	$(-\frac{54}{475}, \frac{41}{475}, -\frac{83}{475}, \frac{136}{475}, \frac{41}{475}, \frac{33}{95}, -\frac{13}{475}, -\frac{137}{475}, \frac{82}{475})$ $+ \frac{2}{475}\sqrt{16554e^2} \otimes e_8 + \frac{4}{475}\sqrt{5429e^6} \otimes e_7$	{12356, 178, 2457, 3468}
93:28	$0, 0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31e^{12}}, \frac{12}{85}\sqrt{31e^{13}},$ $\frac{1}{85}\sqrt{2139e^{14}} + \frac{12}{85}\sqrt{31e^{25}} + \frac{1}{85}\sqrt{93e^{36}}$	$(\frac{97}{170}, -\frac{2}{17}, -\frac{2}{17}, -\frac{89}{170}, \frac{14}{85}, \frac{14}{85}, \frac{77}{170}, \frac{77}{170}, \frac{4}{85})$ $+ \frac{3}{85}\sqrt{1457e^1} \otimes e_4$	{12356, 1258, 178, 2345678, 2457, 4}
93:28	$0, 0, 0, 0, 0, 0, \frac{32}{277}\sqrt{15e^{12}}, \frac{8}{277}\sqrt{595e^{13}},$ $\frac{32}{277}\sqrt{5e^{14}} + \frac{8}{277}\sqrt{595e^{25}} + \frac{64}{277}\sqrt{5e^{36}}$	$(-\frac{25}{277}, \frac{41}{277}, -\frac{25}{277}, \frac{94}{277}, \frac{110}{277}, \frac{94}{277}, -\frac{66}{277}, -\frac{50}{277}, \frac{69}{277})$ $+ \frac{32}{277}\sqrt{15e^4} \otimes e_7 + \frac{8}{277}\sqrt{995e^5} \otimes e_8$	{12357, 134569, 2456, 579}
93:28	$0, 0, 0, 0, 0, 0, \frac{12}{155}\sqrt{38e^{12}}, \frac{12}{155}\sqrt{38e^{13}},$ $\frac{2}{155}\sqrt{627e^{14}} + \frac{12}{155}\sqrt{38e^{25}} + \frac{2}{155}\sqrt{57e^{36}}$	$(-\frac{4}{31}, \frac{61}{155}, \frac{61}{155}, \frac{28}{155}, -\frac{53}{155}, -\frac{53}{155}, \frac{41}{155}, \frac{41}{155}, \frac{8}{155})$ $+ \frac{6}{155}\sqrt{437e^2} \otimes e_5 - \frac{6}{155}\sqrt{437e^3} \otimes e_6$	{12349, 124689, 1456789, 23789, 2679, 569}
93:28	$0, 0, 0, 0, 0, 0, \frac{5}{587}\sqrt{390e^{12}}, \frac{30}{587}\sqrt{30e^{13}},$ $\frac{5}{587}\sqrt{651e^{14}} + \frac{5}{587}\sqrt{1158e^{25}} + \frac{30}{587}\sqrt{114e^{36}}$	$(-\frac{100}{587}, \frac{35}{587}, \frac{60}{587}, \frac{145}{587}, \frac{10}{587}, -\frac{15}{587}, -\frac{65}{587}, -\frac{40}{587}, \frac{45}{587})$ $+ \frac{15}{587}\sqrt{111e^5} \otimes e_7 + \frac{15}{587}\sqrt{85e^3} \otimes e_6 + \frac{45}{587}\sqrt{19e^2} \otimes e_8$	{1235, 1678}
93:28	$0, 0, 0, 0, 0, 0, \frac{50}{3269}\sqrt{390e^{12}}, \frac{300}{3269}\sqrt{13e^{13}},$ $\frac{10}{3269}\sqrt{10155e^{14}} + \frac{50}{3269}\sqrt{285e^{25}} + \frac{40}{3269}\sqrt{330e^{36}}$	$(-\frac{70}{467}, \frac{95}{3269}, -\frac{165}{3269}, \frac{940}{3269}, \frac{355}{3269}, \frac{615}{3269}, -\frac{395}{3269}, -\frac{655}{3269}, \frac{450}{3269})$ $+ \frac{30}{3269}\sqrt{2830e^2} \otimes e_8 + \frac{60}{3269}\sqrt{545e^5} \otimes e_7$	{1235, 1678, 279, 35689}
93:28	$0, 0, 0, 0, 0, 0, \frac{3}{329}\sqrt{8806e^{12}}, \frac{3}{329}\sqrt{4958e^{13}},$ $\frac{6}{329}\sqrt{1961e^{14}} + \frac{3}{329}\sqrt{4958e^{25}} + \frac{6}{329}\sqrt{481e^{36}}$	$(-\frac{108}{329}, -\frac{2}{329}, \frac{13}{47}, \frac{223}{329}, \frac{117}{329}, \frac{24}{329}, -\frac{110}{329}, -\frac{17}{329}, \frac{115}{329})$ $+ \frac{9}{329}\sqrt{2294e^4} \otimes e_7$	{123468, 124, 13789, 1679, 2367, 278, 349, 4689}
93:28	$0, 0, 0, 0, 0, 0, \frac{43}{5157}\sqrt{366e^{12}}, \frac{43}{5157}\sqrt{894e^{13}},$ $\frac{86}{5157}\sqrt{191e^{14}} + \frac{43}{5157}\sqrt{1622e^{25}} + \frac{86}{5157}\sqrt{391e^{36}}$	$(-\frac{1204}{5157}, \frac{430}{1719}, \frac{43}{5157}, \frac{215}{573}, -\frac{559}{5157}, \frac{688}{5157}, \frac{86}{5157}, -\frac{43}{191}, \frac{731}{5157})$ $+ \frac{43}{5157}\sqrt{3878e^4} \otimes e_7 + \frac{86}{5157}\sqrt{546e^6} \otimes e_8 + \frac{86}{5157}\sqrt{874e^2} \otimes e_5$	{2367, 278}
93:28	$0, 0, 0, 0, 0, 0, \frac{12}{83}\sqrt{51e^{12}}, \frac{2}{83}\sqrt{510e^{13}},$ $\frac{2}{83}\sqrt{255e^{14}} + \frac{12}{83}\sqrt{510e^{25}} + \frac{2}{83}\sqrt{663e^{36}}$	$(-\frac{7}{83}, \frac{57}{83}, \frac{11}{83}, \frac{19}{83}, -\frac{45}{83}, \frac{1}{83}, \frac{50}{83}, \frac{4}{83}, \frac{12}{83})$ $+ \frac{6}{83}\sqrt{391e^2} \otimes e_5$	{12, 12368, 135678, 157, 23467, 2478, 3456, 458}
93:28	$0, 0, 0, 0, 0, 0, \frac{60}{809}\sqrt{67e^{12}}, \frac{6}{809}\sqrt{1474e^{13}},$ $\frac{2}{809}\sqrt{19095e^{14}} + \frac{60}{809}\sqrt{12462e^{25}} + \frac{2}{809}\sqrt{11055e^{36}}$	$(\frac{187}{809}, \frac{187}{809}, -\frac{47}{809}, -\frac{215}{809}, -\frac{215}{809}, \frac{19}{809}, \frac{374}{809}, \frac{140}{809}, -\frac{28}{809})$ $- \frac{18}{809}\sqrt{871e^2} \otimes e_5 + \frac{48}{809}\sqrt{134e^1} \otimes e_4$	{1236, 128, 13567, 1578, 234678, 247, 34568, 45}
93:28	$0, 0, 0, 0, 0, 0, \frac{60}{809}\sqrt{67e^{12}}, \frac{6}{809}\sqrt{1474e^{13}},$ $\frac{2}{809}\sqrt{19095e^{14}} + \frac{60}{809}\sqrt{12462e^{25}} + \frac{2}{809}\sqrt{11055e^{36}}$	$(\frac{187}{809}, \frac{187}{809}, -\frac{47}{809}, -\frac{215}{809}, -\frac{215}{809}, \frac{19}{809}, \frac{374}{809}, \frac{140}{809}, -\frac{28}{809})$ $+ \frac{18}{809}\sqrt{871e^2} \otimes e_5 + \frac{48}{809}\sqrt{134e^1} \otimes e_4$	{1236, 128, 13567, 1578, 234678, 247, 34568, 45}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:28	$0, 0, 0, 0, 0, 0, \frac{50}{3269}\sqrt{390}e^{12}, \frac{80}{3269}\sqrt{285}e^{13},$ $\frac{10}{3269}\sqrt{10155}e^{14} + \frac{300}{3269}\sqrt{13}e^{25} + \frac{40}{3269}\sqrt{330}e^{36}$	$(\frac{382}{3269}, \frac{531}{3269}, -\frac{601}{3269}, -\frac{368}{3269}, -\frac{517}{3269}, \frac{615}{3269}, \frac{913}{3269}, -\frac{219}{3269}, \frac{2}{467})$ $+ \frac{30}{3269}\sqrt{2830}e^2 \otimes e_8 + \frac{60}{3269}\sqrt{545}e^1 \otimes e_4$	{1235, 1678, 24567, 348}
93:28	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{22}e^{12}, \frac{6}{79}\sqrt{22}e^{13},$ $\frac{6}{79}\sqrt{19}e^{14} + \frac{6}{79}\sqrt{10}e^{25} + \frac{6}{79}\sqrt{10}e^{36}$	$(-\frac{18}{79}, \frac{11}{79}, \frac{11}{79}, \frac{26}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{7}{79}, -\frac{7}{79}, \frac{8}{79})$ $+ \frac{36}{79}e^2 \otimes e_8 - \frac{36}{79}e^3 \otimes e_7$	{12349, 12356, 1456789, 178, 2457, 2679}
93:28	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{22}e^{12}, \frac{6}{79}\sqrt{22}e^{13},$ $\frac{6}{79}\sqrt{19}e^{14} + \frac{6}{79}\sqrt{10}e^{25} + \frac{6}{79}\sqrt{10}e^{36}$	$(-\frac{18}{79}, \frac{11}{79}, \frac{11}{79}, \frac{26}{79}, -\frac{3}{79}, -\frac{3}{79}, -\frac{7}{79}, -\frac{7}{79}, \frac{8}{79})$ $+ \frac{36}{79}e^2 \otimes e_8 + \frac{36}{79}e^3 \otimes e_7$	{12349, 12356, 1456789, 178, 2457, 2679}
93:28	$0, 0, 0, 0, 0, 0, \frac{22}{815}\sqrt{74}e^{12}, \frac{132}{815}\sqrt{11}e^{13},$ $\frac{22}{815}\sqrt{131}e^{14} + \frac{22}{815}\sqrt{302}e^{25} + \frac{44}{815}\sqrt{42}e^{36}$	$(\frac{154}{815}, -\frac{33}{163}, -\frac{33}{163}, -\frac{88}{815}, \frac{231}{815}, \frac{231}{815}, -\frac{11}{815}, -\frac{11}{815}, \frac{66}{815})$ $+ \frac{22}{815}\sqrt{282}e^1 \otimes e_4 + \frac{44}{815}\sqrt{470}e^5 \otimes e_8$	{12357, 168, 2456, 3478}
93:28	$0, 0, 0, 0, 0, 0, \frac{66}{1787}\sqrt{66}e^{12}, \frac{44}{1787}\sqrt{67}e^{13},$ $\frac{22}{1787}\sqrt{347}e^{14} + \frac{44}{1787}\sqrt{21}e^{25} + \frac{44}{1787}\sqrt{53}e^{36}$	$(\frac{154}{1787}, \frac{33}{1787}, -\frac{363}{1787}, -\frac{88}{1787}, \frac{33}{1787}, \frac{429}{1787}, \frac{187}{1787}, -\frac{209}{1787}, \frac{66}{1787})$ $- \frac{44}{1787}\sqrt{131}e^6 \otimes e_7 + \frac{44}{1787}\sqrt{138}e^1 \otimes e_4 + \frac{66}{1787}\sqrt{66}e^2 \otimes e_8$	{12356, 178, 2457, 3468}
93:28	$0, 0, 0, 0, 0, 0, \frac{66}{1787}\sqrt{66}e^{12}, \frac{44}{1787}\sqrt{67}e^{13},$ $\frac{22}{1787}\sqrt{347}e^{14} + \frac{44}{1787}\sqrt{21}e^{25} + \frac{44}{1787}\sqrt{53}e^{36}$	$(\frac{154}{1787}, \frac{33}{1787}, -\frac{363}{1787}, -\frac{88}{1787}, \frac{33}{1787}, \frac{429}{1787}, \frac{187}{1787}, -\frac{209}{1787}, \frac{66}{1787})$ $+ \frac{44}{1787}\sqrt{131}e^6 \otimes e_7 + \frac{44}{1787}\sqrt{138}e^1 \otimes e_4 + \frac{66}{1787}\sqrt{66}e^2 \otimes e_8$	{12356, 178, 2457, 3468}
93:28	$0, 0, 0, 0, 0, 0, \frac{1}{267}\sqrt{25530}e^{12}, \frac{1}{267}\sqrt{12190}e^{13},$ $\frac{20}{267}\sqrt{23}e^{14} + \frac{1}{267}\sqrt{12190}e^{25} + \frac{1}{267}\sqrt{6670}e^{36}$	$(-\frac{77}{267}, \frac{76}{267}, \frac{15}{89}, \frac{38}{89}, -\frac{13}{89}, -\frac{8}{267}, -\frac{1}{267}, -\frac{32}{267}, \frac{37}{267})$ $+ \frac{1}{267}\sqrt{25990}e^2 \otimes e_5 + \frac{1}{267}\sqrt{30590}e^4 \otimes e_7$	{123468, 124, 2367, 278}
93:28	$0, 0, 0, 0, 0, 0, \frac{14}{625}\sqrt{546}e^{12}, \frac{28}{625}\sqrt{66}e^{13},$ $\frac{14}{625}\sqrt{291}e^{14} + \frac{28}{625}\sqrt{66}e^{25} + \frac{42}{625}\sqrt{2}e^{36}$	$(\frac{34}{125}, -\frac{209}{625}, -\frac{21}{625}, -\frac{124}{625}, \frac{51}{625}, \frac{67}{625}, -\frac{39}{625}, \frac{149}{625}, \frac{46}{625})$ $+ \frac{42}{625}\sqrt{94}e^1 \otimes e_4 + \frac{42}{625}\sqrt{94}e^5 \otimes e_7$	{1235, 12568, 137, 1678}
93:28	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{4}{53}\sqrt{30}e^{13},$ $\frac{16}{53}\sqrt{2}e^{14} + \frac{4}{53}\sqrt{30}e^{25} + \frac{4}{53}\sqrt{30}e^{36}$	$(-\frac{1}{53}, -\frac{9}{53}, -\frac{9}{53}, \frac{14}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{13}{53})$ $+ \frac{4}{53}\sqrt{94}e^5 \otimes e_7 + \frac{4}{53}\sqrt{94}e^6 \otimes e_8$	{12356, 1258, 178, 23789, 2679, 569}
93:28	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{30}e^{12}, \frac{4}{53}\sqrt{30}e^{13},$ $\frac{16}{53}\sqrt{2}e^{14} + \frac{4}{53}\sqrt{30}e^{25} + \frac{4}{53}\sqrt{30}e^{36}$	$(-\frac{1}{53}, -\frac{9}{53}, -\frac{9}{53}, \frac{14}{53}, \frac{22}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{13}{53})$ $+ \frac{4}{53}\sqrt{94}e^5 \otimes e_7 - \frac{4}{53}\sqrt{94}e^6 \otimes e_8$	{12356, 1258, 178, 23789, 2679, 569}
93:28	$0, 0, 0, 0, 0, 0, \frac{6}{2669}\sqrt{52266}e^{12}, \frac{2}{2669}\sqrt{193890}e^{13},$ $\frac{2}{2669}\sqrt{257115}e^{14} + \frac{6}{2669}\sqrt{160170}e^{25} + \frac{4}{2669}\sqrt{127293}e^{36}$	$(-\frac{196}{2669}, \frac{1041}{2669}, -\frac{547}{2669}, \frac{592}{2669}, -\frac{645}{2669}, \frac{943}{2669}, \frac{845}{2669}, -\frac{743}{2669}, \frac{396}{2669})$ $+ \frac{12}{2669}\sqrt{29505}e^6 \otimes e_8 + \frac{6}{2669}\sqrt{105094}e^2 \otimes e_5$	{1236, 128, 13567, 1578}
93:28	$0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{154}e^{12}, \frac{42}{169}\sqrt{10}e^{13},$ $\frac{6}{169}\sqrt{259}e^{14} + \frac{42}{169}\sqrt{10}e^{25} + \frac{6}{169}\sqrt{182}e^{36}$	$(-\frac{30}{169}, \frac{77}{169}, -\frac{19}{169}, \frac{62}{169}, -\frac{45}{169}, \frac{51}{169}, \frac{47}{169}, -\frac{49}{169}, \frac{32}{169})$ $+ \frac{72}{169}\sqrt{7}e^2 \otimes e_8$	{123469, 1235, 145789, 1678, 24567, 279, 348, 35689}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{19}e^{12}, \frac{6}{79}\sqrt{22}e^{13} + \frac{6}{79}\sqrt{10}e^{24},$ $\frac{6}{79}\sqrt{22}e^{15} + \frac{6}{79}\sqrt{10}e^{26}$	$(-\frac{18}{79}, \frac{6}{79}, \frac{21}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{3}{79}, -\frac{12}{79}, \frac{3}{79}, \frac{3}{79})$ $+ \frac{36}{79}e^3 \otimes e_9 + \frac{36}{79}e^5 \otimes e_8$	{1234567, 12789, 135, 14689, 2368, 3478}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{19}e^{12}, \frac{6}{79}\sqrt{22}e^{13} + \frac{6}{79}\sqrt{10}e^{24},$ $\frac{6}{79}\sqrt{22}e^{15} + \frac{6}{79}\sqrt{10}e^{26}$	$(-\frac{18}{79}, \frac{6}{79}, \frac{21}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{3}{79}, -\frac{12}{79}, \frac{3}{79}, \frac{3}{79})$ $+ \frac{36}{79}e^3 \otimes e_9 - \frac{36}{79}e^5 \otimes e_8$	{1234567, 12789, 135, 14689, 2368, 3478}
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{1397}\sqrt{506}e^{12}, \frac{12}{1397}\sqrt{1114}e^{13} + \frac{24}{1397}\sqrt{101}e^{24},$ $\frac{60}{1397}\sqrt{26}e^{15} + \frac{12}{1397}\sqrt{478}e^{26}$	$(\frac{6}{127}, -\frac{216}{1397}, -\frac{6}{1397}, \frac{276}{1397}, -\frac{78}{1397}, \frac{204}{1397}, -\frac{150}{1397}, \frac{60}{1397}, -\frac{12}{1397})$ $+ \frac{36}{1397}\sqrt{106}e^1 \otimes e_5 + \frac{36}{1397}\sqrt{106}e^3 \otimes e_7 - \frac{36}{1397}\sqrt{82}e^6 \otimes e_8$	{1236, 178, 2567, 358}
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{1397}\sqrt{506}e^{12}, \frac{12}{1397}\sqrt{1114}e^{13} + \frac{24}{1397}\sqrt{101}e^{24},$ $\frac{60}{1397}\sqrt{26}e^{15} + \frac{12}{1397}\sqrt{478}e^{26}$	$(\frac{6}{127}, -\frac{216}{1397}, -\frac{6}{1397}, \frac{276}{1397}, -\frac{78}{1397}, \frac{204}{1397}, -\frac{150}{1397}, \frac{60}{1397}, -\frac{12}{1397})$ $+ \frac{36}{1397}\sqrt{106}e^1 \otimes e_5 + \frac{36}{1397}\sqrt{106}e^3 \otimes e_7 + \frac{36}{1397}\sqrt{82}e^6 \otimes e_8$	{1236, 178, 2567, 358}
93:29	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{10}e^{12}, \frac{2}{87}\sqrt{195}e^{13} + \frac{1}{29}\sqrt{65}e^{24},$ $\frac{10}{87}\sqrt{3}e^{15} + \frac{2}{87}\sqrt{195}e^{26}$	$(\frac{4}{87}, -\frac{13}{87}, \frac{8}{87}, \frac{25}{87}, -\frac{11}{87}, \frac{2}{29}, -\frac{3}{29}, \frac{4}{29}, -\frac{7}{87})$ $+ \frac{1}{29}\sqrt{95}e^3 \otimes e_9 + \frac{1}{87}\sqrt{795}e^1 \otimes e_5 + \frac{1}{87}\sqrt{795}e^6 \otimes e_7$	{1236, 1347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{307}\sqrt{221}e^{12}, \frac{21}{307}\sqrt{17}e^{13} + \frac{21}{307}\sqrt{17}e^{24},$ $\frac{6}{307}\sqrt{187}e^{15} + \frac{6}{307}\sqrt{187}e^{26}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{6}{307}, \frac{6}{307}, \frac{132}{307}, -\frac{21}{307}, \frac{72}{307})$ $+ \frac{9}{307}\sqrt{527}e^1 \otimes e_3 + \frac{9}{307}\sqrt{527}e^2 \otimes e_4$	{1256, 129, 1457, 14679, 34, 34569}
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{307}\sqrt{221}e^{12}, \frac{21}{307}\sqrt{17}e^{13} + \frac{21}{307}\sqrt{17}e^{24},$ $\frac{6}{307}\sqrt{187}e^{15} + \frac{6}{307}\sqrt{187}e^{26}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{6}{307}, \frac{6}{307}, \frac{132}{307}, -\frac{21}{307}, \frac{72}{307})$ $+ \frac{9}{307}\sqrt{527}e^1 \otimes e_3 - \frac{9}{307}\sqrt{527}e^2 \otimes e_4$	{1256, 129, 1457, 14679, 34, 34569}
93:29	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{69}e^{12}, \frac{16}{67}\sqrt{3}e^{13} + \frac{12}{67}\sqrt{5}e^{24},$ $\frac{12}{67}\sqrt{5}e^{15} + \frac{16}{67}\sqrt{3}e^{26}$	$(\frac{14}{67}, -\frac{17}{67}, -\frac{10}{67}, \frac{21}{67}, -\frac{10}{67}, \frac{21}{67}, -\frac{3}{67}, \frac{4}{67}, \frac{4}{67})$ $+ \frac{4}{67}\sqrt{93}e^1 \otimes e_3 + \frac{4}{67}\sqrt{93}e^4 \otimes e_7$	{1245, 12469, 1567, 179}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{329}\sqrt{1961}e^{12}, \frac{3}{329}\sqrt{4958}e^{13} + \frac{6}{329}\sqrt{481}e^{24},$ $\frac{3}{329}\sqrt{8806}e^{15} + \frac{3}{329}\sqrt{4958}e^{26}$	$(\frac{171}{329}, -\frac{15}{329}, -\frac{162}{329}, \frac{24}{329}, -\frac{69}{329}, \frac{117}{329}, \frac{156}{329}, \frac{9}{329}, \frac{102}{329})$ $+ \frac{9}{329}\sqrt{2294}e^1 \otimes e_3$	{1245, 12469, 1567, 179, 2345679, 2347, 359, 36}
93:29	$0, 0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{62}e^{12}, \frac{30}{2411}\sqrt{1954}e^{13} + \frac{30}{2411}\sqrt{962}e^{24},$ $\frac{60}{2411}\sqrt{35}e^{15} + \frac{30}{2411}\sqrt{1318}e^{26}$	$(\frac{240}{2411}, \frac{15}{2411}, \frac{480}{2411}, \frac{705}{2411}, -\frac{660}{2411}, -\frac{435}{2411}, \frac{255}{2411}, \frac{720}{2411}, -\frac{420}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^1 \otimes e_5 + \frac{90}{2411}\sqrt{274}e^3 \otimes e_9$	{1236, 1347, 2345678, 358}
93:29	$0, 0, 0, 0, 0, 0, \frac{22}{1247}\sqrt{201}e^{12}, \frac{22}{1247}\sqrt{258}e^{13} + \frac{11}{1247}\sqrt{1038}e^{24},$ $\frac{11}{1247}\sqrt{1842}e^{15} + \frac{11}{1247}\sqrt{462}e^{26}$	$(\frac{231}{1247}, -\frac{286}{1247}, -\frac{132}{1247}, \frac{385}{1247}, -\frac{209}{1247}, \frac{308}{1247}, -\frac{55}{1247}, \frac{99}{1247}, \frac{22}{1247})$ $+ \frac{11}{1247}\sqrt{1722}e^6 \otimes e_7 + \frac{22}{1247}\sqrt{690}e^4 \otimes e_9 + \frac{66}{1247}\sqrt{67}e^1 \otimes e_3$	{12456, 3569}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{259}e^{12}, \frac{42}{169}\sqrt{10}e^{13} + \frac{6}{169}\sqrt{182}e^{24},$ $\frac{6}{169}\sqrt{154}e^{15} + \frac{42}{169}\sqrt{10}e^{26}$	$(-\frac{30}{169}, \frac{18}{169}, \frac{99}{169}, \frac{51}{169}, \frac{3}{169}, -\frac{45}{169}, -\frac{12}{169}, \frac{69}{169}, -\frac{27}{169})$ $+ \frac{72}{169}\sqrt{7}e^3 \otimes e_9$	{123567, 124789, 1345, 1689, 23468, 259, 378, 45679}
93:29	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{69}e^{12}, \frac{16}{67}\sqrt{3}e^{13} + \frac{12}{67}\sqrt{5}e^{24},$ $\frac{12}{67}\sqrt{5}e^{15} + \frac{16}{67}\sqrt{3}e^{26}$	$(\frac{14}{67}, \frac{14}{67}, -\frac{10}{67}, -\frac{10}{67}, -\frac{10}{67}, -\frac{10}{67}, \frac{28}{67}, \frac{4}{67}, \frac{4}{67})$ $+ \frac{4}{67}\sqrt{93}e^1 \otimes e_3 + \frac{4}{67}\sqrt{93}e^2 \otimes e_6$	{1245, 1567, 36}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{167}\sqrt{58}e^{12}, \frac{6}{167}\sqrt{22}e^{13} + \frac{12}{167}\sqrt{22}e^{24},$ $\frac{6}{167}\sqrt{58}e^{15} + \frac{6}{167}\sqrt{70}e^{26}$	$(\frac{21}{167}, -\frac{36}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{18}{167}\sqrt{14}e^6 \otimes e_8 + \frac{36}{167}e^1 \otimes e_3 + \frac{72}{167}e^4 \otimes e_9$	{12789, 1458, 23589, 3478}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{167}\sqrt{58}e^{12}, \frac{6}{167}\sqrt{22}e^{13} + \frac{12}{167}\sqrt{22}e^{24},$ $\frac{6}{167}\sqrt{58}e^{15} + \frac{6}{167}\sqrt{70}e^{26}$	$(\frac{21}{167}, -\frac{36}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{42}{167}, -\frac{15}{167}, \frac{6}{167}, \frac{6}{167})$ $- \frac{18}{167}\sqrt{14}e^6 \otimes e_8 + \frac{36}{167}e^1 \otimes e_3 + \frac{72}{167}e^4 \otimes e_9$	{12789, 1458, 23589, 3478}
93:29	$0, 0, 0, 0, 0, 0, \frac{3}{676}\sqrt{1434}e^{12}, \frac{3}{676}\sqrt{1038}e^{13} + \frac{3}{338}\sqrt{159}e^{24},$ $\frac{3}{676}\sqrt{1194}e^{15} + \frac{3}{676}\sqrt{1038}e^{26}$	$(-\frac{15}{1352}, \frac{3}{52}, -\frac{69}{1352}, -\frac{81}{676}, \frac{9}{104}, \frac{3}{169}, \frac{63}{1352}, -\frac{21}{338}, \frac{51}{676})$ $+ \frac{9}{338}\sqrt{31}e^2 \otimes e_6 + \frac{9}{676}\sqrt{155}e^1 \otimes e_3 + \frac{9}{676}\sqrt{155}e^5 \otimes e_7$	{1245, 2347}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{401}\sqrt{154}e^{12}, \frac{6}{401}\sqrt{154}e^{13} + \frac{42}{401}\sqrt{22}e^{24},$ $\frac{42}{401}\sqrt{22}e^{15} + \frac{12}{401}\sqrt{154}e^{26}$	$(-\frac{27}{401}, -\frac{60}{401}, \frac{165}{401}, \frac{198}{401}, -\frac{27}{401}, \frac{6}{401}, -\frac{87}{401}, \frac{138}{401}, -\frac{54}{401})$ $+ \frac{252}{401}e^3 \otimes e_7 + \frac{90}{401}\sqrt{14}e^4 \otimes e_9$	{12789, 1369, 23589, 5679}
93:29	$0, 0, 0, 0, 0, 0, \frac{2}{69}\sqrt{51}e^{12}, \frac{2}{23}\sqrt{10}e^{13} + \frac{2}{69}\sqrt{6}e^{24},$ $\frac{2}{69}\sqrt{6}e^{15} + \frac{2}{23}\sqrt{10}e^{26}$	$(-\frac{2}{23}, -\frac{2}{23}, \frac{7}{69}, \frac{7}{69}, \frac{7}{69}, \frac{7}{69}, -\frac{4}{23}, \frac{1}{69}, \frac{1}{69})$ $+ \frac{8}{69}\sqrt{6}e^3 \otimes e_9 + \frac{8}{69}\sqrt{6}e^6 \otimes e_8$	{12367, 1245789, 3578}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{167}\sqrt{58}e^{12}, \frac{6}{167}\sqrt{70}e^{13} + \frac{6}{167}\sqrt{58}e^{24},$ $\frac{12}{167}\sqrt{22}e^{15} + \frac{6}{167}\sqrt{22}e^{26}$	$(-\frac{36}{167}, \frac{3}{167}, \frac{42}{167}, \frac{3}{167}, \frac{42}{167}, \frac{3}{167}, -\frac{33}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{18}{167}\sqrt{14}e^3 \otimes e_9 + \frac{36}{167}e^4 \otimes e_7 - \frac{72}{167}e^5 \otimes e_8$	{12789, 14689, 2459, 5679}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{167}\sqrt{58}e^{12}, \frac{6}{167}\sqrt{70}e^{13} + \frac{6}{167}\sqrt{58}e^{24},$ $\frac{12}{167}\sqrt{22}e^{15} + \frac{6}{167}\sqrt{22}e^{26}$	$(-\frac{36}{167}, \frac{3}{167}, \frac{42}{167}, \frac{3}{167}, \frac{42}{167}, \frac{3}{167}, -\frac{33}{167}, \frac{6}{167}, \frac{6}{167})$ $+ \frac{18}{167}\sqrt{14}e^3 \otimes e_9 + \frac{36}{167}e^4 \otimes e_7 + \frac{72}{167}e^5 \otimes e_8$	{12789, 14689, 2459, 5679}
93:29	$0, 0, 0, 0, 0, 0, \frac{2}{353}\sqrt{390}e^{12}, \frac{1}{353}\sqrt{4530}e^{13} + \frac{12}{353}\sqrt{5}e^{24},$ $\frac{12}{353}\sqrt{5}e^{15} + \frac{1}{353}\sqrt{110}e^{26}$	$(\frac{4}{353}, -\frac{34}{353}, \frac{8}{353}, \frac{46}{353}, -\frac{11}{353}, \frac{27}{353}, -\frac{30}{353}, \frac{12}{353}, -\frac{7}{353})$ $+ \frac{1}{353}\sqrt{4110}e^3 \otimes e_9 + \frac{1}{353}\sqrt{4110}e^6 \otimes e_8 + \frac{1}{353}\sqrt{190}e^1 \otimes e_5$	{12367, 3578}
93:29	$0, 0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{62}e^{12}, \frac{30}{2411}\sqrt{1954}e^{13} + \frac{60}{2411}\sqrt{35}e^{24},$ $\frac{30}{2411}\sqrt{962}e^{15} + \frac{30}{2411}\sqrt{1318}e^{26}$	$(-\frac{303}{2411}, -\frac{396}{2411}, \frac{201}{2411}, \frac{294}{2411}, \frac{705}{2411}, \frac{798}{2411}, -\frac{699}{2411}, -\frac{102}{2411}, \frac{402}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^3 \otimes e_7 + \frac{90}{2411}\sqrt{274}e^6 \otimes e_8$	{1236, 178, 2567, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{401}\sqrt{154}e^{12}, \frac{6}{401}\sqrt{154}e^{13} + \frac{42}{401}\sqrt{22}e^{24},$ $\frac{42}{401}\sqrt{22}e^{15} + \frac{12}{401}\sqrt{154}e^{26}$	$(\frac{99}{401}, -\frac{60}{401}, \frac{39}{401}, \frac{198}{401}, -\frac{153}{401}, \frac{6}{401}, \frac{39}{401}, \frac{138}{401}, -\frac{54}{401})$ $+ \frac{252}{401}e^1 \otimes e_5 + \frac{90}{401}\sqrt{14}e^4 \otimes e_9$	{12789, 1369, 23589, 5679}
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{733}\sqrt{114}e^{12}, \frac{3}{733}\sqrt{678}e^{13} + \frac{6}{733}\sqrt{690}e^{24},$ $\frac{6}{733}\sqrt{690}e^{15} + \frac{3}{733}\sqrt{210}e^{26}$	$(\frac{12}{733}, -\frac{66}{733}, -\frac{27}{733}, \frac{51}{733}, \frac{12}{733}, \frac{90}{733}, -\frac{54}{733}, -\frac{15}{733}, \frac{24}{733})$ $+ \frac{36}{733}\sqrt{19}e^4 \otimes e_9 + \frac{9}{733}\sqrt{130}e^3 \otimes e_7 + \frac{9}{733}\sqrt{278}e^5 \otimes e_8$	{1236789, 3579}
93:29	$0, 0, 0, 0, 0, 0, \frac{2}{87}\sqrt{10}e^{12}, \frac{10}{87}\sqrt{3}e^{13} + \frac{2}{87}\sqrt{195}e^{24},$ $\frac{2}{87}\sqrt{195}e^{15} + \frac{1}{29}\sqrt{65}e^{26}$	$(\frac{4}{87}, \frac{9}{58}, -\frac{11}{87}, -\frac{41}{174}, \frac{8}{87}, -\frac{1}{58}, \frac{35}{174}, -\frac{7}{87}, \frac{4}{29})$ $+ \frac{1}{29}\sqrt{95}e^5 \otimes e_8 + \frac{1}{87}\sqrt{795}e^1 \otimes e_3 + \frac{1}{87}\sqrt{795}e^2 \otimes e_6$	{1245, 1567}
93:29	$0, 0, 0, 0, 0, 0, \frac{6}{329}\sqrt{1961}e^{12}, \frac{3}{329}\sqrt{8806}e^{13} + \frac{3}{329}\sqrt{4958}e^{24},$ $\frac{3}{329}\sqrt{4958}e^{15} + \frac{6}{329}\sqrt{481}e^{26}$	$(-\frac{108}{329}, -\frac{15}{329}, \frac{30}{47}, \frac{117}{329}, \frac{117}{329}, \frac{24}{329}, -\frac{123}{329}, \frac{102}{329}, \frac{9}{329})$ $+ \frac{9}{329}\sqrt{2294}e^3 \otimes e_7$	{12359, 1236, 156789, 178, 2567, 279, 358, 3689}
93:29	$0, 0, 0, 0, 0, 0, \frac{3}{296}\sqrt{1442}e^{12}, \frac{3}{296}\sqrt{1582}e^{13} + \frac{3}{296}\sqrt{1022}e^{24},$ $\frac{3}{296}\sqrt{1022}e^{15} + \frac{3}{148}\sqrt{70}e^{26}$	$(\frac{27}{592}, -\frac{33}{296}, \frac{87}{592}, \frac{45}{148}, -\frac{99}{592}, -\frac{3}{296}, -\frac{39}{592}, \frac{57}{296}, -\frac{9}{74})$ $+ \frac{9}{296}\sqrt{217}e^1 \otimes e_5 + \frac{9}{296}\sqrt{217}e^3 \otimes e_7$	{1236, 178, 2567, 358}
93:29	$0, 0, 0, 0, 0, 0, \frac{12}{307}\sqrt{221}e^{12}, \frac{6}{307}\sqrt{187}e^{13} + \frac{6}{307}\sqrt{187}e^{24},$ $\frac{21}{307}\sqrt{17}e^{15} + \frac{21}{307}\sqrt{17}e^{26}$	$(\frac{66}{307}, -\frac{147}{614}, \frac{6}{307}, \frac{291}{614}, -\frac{87}{307}, \frac{105}{614}, -\frac{15}{614}, \frac{72}{307}, -\frac{21}{307})$ $+ \frac{9}{307}\sqrt{527}e^1 \otimes e_5 + \frac{9}{307}\sqrt{527}e^4 \otimes e_7$	{1234, 1367, 23578, 34568}
93:29	$0, 0, 0, 0, 0, 0, \frac{36}{709}\sqrt{66}e^{12}, \frac{18}{709}\sqrt{138}e^{13} + \frac{9}{709}\sqrt{906}e^{24},$ $\frac{9}{709}\sqrt{654}e^{15} + \frac{18}{709}\sqrt{138}e^{26}$	$(\frac{126}{709}, -\frac{180}{709}, -\frac{117}{709}, \frac{189}{709}, -\frac{54}{709}, \frac{252}{709}, -\frac{54}{709}, \frac{9}{709}, \frac{72}{709})$ $+ \frac{108}{709}\sqrt{11}e^1 \otimes e_3 + \frac{27}{709}\sqrt{190}e^4 \otimes e_7 + \frac{27}{709}\sqrt{70}e^6 \otimes e_8$	{12469, 1567}
93:29	$0, 0, 0, 0, 0, 0, \frac{30}{2411}\sqrt{62}e^{12}, \frac{30}{2411}\sqrt{962}e^{13} + \frac{30}{2411}\sqrt{1318}e^{24},$ $\frac{30}{2411}\sqrt{1954}e^{15} + \frac{60}{2411}\sqrt{35}e^{26}$	$(\frac{651}{2411}, -\frac{396}{2411}, -\frac{249}{2411}, \frac{798}{2411}, -\frac{753}{2411}, \frac{294}{2411}, \frac{255}{2411}, \frac{402}{2411}, -\frac{102}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^1 \otimes e_3 + \frac{90}{2411}\sqrt{274}e^4 \otimes e_9$	{1245, 179, 2347, 359}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{355}\sqrt{3782}e^{12}, \frac{2}{355}\sqrt{1209}e^{14} + \frac{6}{355}\sqrt{155}e^{23},$ $\frac{2}{355}\sqrt{527}e^{13} + \frac{124}{355}e^{56}$	$(-\frac{33}{355}, \frac{34}{355}, \frac{1}{71}, \frac{72}{355}, \frac{63}{355}, -\frac{91}{355}, \frac{1}{355}, \frac{39}{355}, -\frac{28}{355})$ $+ \frac{2}{355}\sqrt{4774}e^3 \otimes e_7 + \frac{4}{355}\sqrt{1302}e^2 \otimes e_9$	{124568, 1346789, 2347, 459}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1105}e^{12}, \frac{2}{161}\sqrt{755}e^{14} + \frac{20}{161}\sqrt{2}e^{23},$ $\frac{2}{161}\sqrt{1265}e^{13} + \frac{16}{161}\sqrt{5}e^{56}$	$(\frac{20}{161}, -\frac{40}{161}, \frac{30}{161}, -\frac{30}{161}, \frac{25}{161}, \frac{25}{161}, -\frac{20}{161}, -\frac{10}{161}, \frac{50}{161})$ $+ \frac{2}{161}\sqrt{1810}e^1 \otimes e_4 + \frac{2}{161}\sqrt{1910}e^3 \otimes e_7$	{1235, 15679, 179}
93:30	$0, 0, 0, 0, 0, 0, \frac{50}{987}\sqrt{95}e^{12}, \frac{50}{987}\sqrt{11}e^{14} + \frac{200}{2961}\sqrt{19}e^{23},$ $\frac{50}{2961}\sqrt{7}e^{13} + \frac{50}{2961}\sqrt{622}e^{56}$	$(-\frac{200}{987}, \frac{100}{423}, \frac{50}{2961}, \frac{150}{329}, -\frac{275}{2961}, -\frac{275}{2961}, \frac{100}{2961}, \frac{250}{987}, -\frac{550}{2961})$ $+ \frac{100}{987}\sqrt{42}e^2 \otimes e_9 + \frac{50}{2961}\sqrt{1102}e^4 \otimes e_7$	{135789, 23567, 237}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{921}\sqrt{16017}e^{12}, \frac{2}{921}\sqrt{59010}e^{14} + \frac{2}{921}\sqrt{16017}e^{23},$ $\frac{4}{921}\sqrt{8711}e^{13} + \frac{4}{921}\sqrt{12083}e^{56}$	$(-\frac{57}{307}, \frac{220}{921}, \frac{13}{307}, \frac{430}{921}, \frac{215}{921}, -\frac{347}{921}, \frac{49}{921}, \frac{259}{921}, -\frac{44}{307})$ $+ \frac{2}{921}\sqrt{150054}e^4 \otimes e_9 + \frac{562}{921}e^5 \otimes e_6$	{1589, 1689, 3579, 3679}
93:30	$0, 0, 0, 0, 0, 0, \frac{18}{569}\sqrt{67}e^{12}, \frac{9}{569}\sqrt{215}e^{14} + \frac{18}{569}\sqrt{67}e^{23},$ $\frac{90}{569}\sqrt{2}e^{13} + \frac{18}{569}\sqrt{34}e^{56}$	$(-\frac{81}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, \frac{18}{569}, -\frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $+ \frac{81}{569}e^5 \otimes e_6 - \frac{9}{569}\sqrt{449}e^3 \otimes e_7 + \frac{9}{569}\sqrt{517}e^2 \otimes e_9$	{1579, 1679, 3589, 3689}
93:30	$0, 0, 0, 0, 0, 0, \frac{18}{569}\sqrt{67}e^{12}, \frac{9}{569}\sqrt{215}e^{14} + \frac{18}{569}\sqrt{67}e^{23},$ $\frac{90}{569}\sqrt{2}e^{13} + \frac{18}{569}\sqrt{34}e^{56}$	$(-\frac{81}{569}, \frac{36}{569}, \frac{36}{569}, \frac{153}{569}, \frac{18}{569}, -\frac{63}{569}, -\frac{45}{569}, \frac{72}{569}, -\frac{45}{569})$ $+ \frac{81}{569}e^5 \otimes e_6 + \frac{9}{569}\sqrt{449}e^3 \otimes e_7 + \frac{9}{569}\sqrt{517}e^2 \otimes e_9$	{1579, 1679, 3589, 3689}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{105}\sqrt{1793}e^{12}, \frac{2}{105}\sqrt{1793}e^{14} + \frac{8}{315}\sqrt{326}e^{23},$ $\frac{4}{45}\sqrt{163}e^{13} + \frac{2}{315}\sqrt{5542}e^{56}$	$(-\frac{32}{105}, -\frac{2}{45}, \frac{134}{315}, \frac{24}{315}, \frac{19}{315}, \frac{19}{315}, -\frac{22}{63}, \frac{8}{21}, \frac{38}{315})$ $+ \frac{2}{315}\sqrt{42706}e^4 \otimes e_7$	{124, 12456, 15678, 178, 2579, 4589}
93:30	$0, 0, 0, 0, 0, 0, \frac{46}{3633}\sqrt{1039}e^{12}, \frac{46}{3633}\sqrt{607}e^{14} + \frac{92}{3633}\sqrt{78}e^{23},$ $\frac{46}{3633}\sqrt{811}e^{13} + \frac{92}{3633}\sqrt{114}e^{56}$	$(\frac{184}{1211}, \frac{276}{1211}, -\frac{782}{3633}, -\frac{506}{3633}, -\frac{115}{3633}, -\frac{115}{3633}, \frac{460}{1211}, \frac{46}{3633}, -\frac{230}{3633})$ $+ \frac{46}{3633}\sqrt{1454}e^1 \otimes e_4 + \frac{46}{3633}\sqrt{1838}e^2 \otimes e_9$	{123, 12356, 1579}
93:30	$0, 0, 0, 0, 0, 0, \frac{69}{3221}\sqrt{86}e^{12}, \frac{161}{3221}\sqrt{6}e^{14} + \frac{276}{3221}\sqrt{11}e^{23},$ $\frac{322}{3221}e^{13} + \frac{46}{3221}\sqrt{485}e^{56}$	$(\frac{276}{3221}, \frac{414}{3221}, -\frac{391}{3221}, -\frac{253}{3221}, \frac{552}{3221}, -\frac{667}{3221}, \frac{690}{3221}, \frac{23}{3221}, -\frac{115}{3221})$ $+ \frac{23}{3221}\sqrt{2438}e^5 \otimes e_8 + \frac{23}{3221}\sqrt{818}e^1 \otimes e_4 + \frac{46}{3221}\sqrt{645}e^2 \otimes e_9$	{128, 136789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:30	$0, 0, 0, 0, 0, 0, \frac{1}{152}\sqrt{14766e^{12}}, \frac{1}{304}\sqrt{23433e^{14}} + \frac{1}{304}\sqrt{23433e^{23}},$ $\frac{1}{304}\sqrt{64842e^{13}} + \frac{3}{152}\sqrt{321e^{56}}$	$(\frac{295}{608}, -\frac{17}{608}, -\frac{35}{608}, -\frac{347}{608}, \frac{65}{304}, \frac{65}{304}, \frac{139}{304}, -\frac{13}{152}, \frac{65}{152})$ $+ \frac{1}{304}\sqrt{164994e^1} \otimes e_4$	{12569, 129, 1357, 2457, 34569, 349}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{319}\sqrt{2418e^{12}}, \frac{2}{319}\sqrt{10230e^{14}} + \frac{2}{319}\sqrt{10230e^{23}},$ $\frac{2}{319}\sqrt{8835e^{13}} + \frac{6}{319}\sqrt{1426e^{56}}$	$(\frac{2}{11}, -\frac{37}{319}, \frac{32}{319}, -\frac{63}{319}, \frac{181}{319}, -\frac{91}{319}, \frac{21}{319}, -\frac{5}{319}, \frac{90}{319})$ $+ \frac{8}{319}\sqrt{1581e^5} \otimes e_8$	{1234579, 1278, 13689, 1456, 2356, 24689, 3478, 579}
93:30	$0, 0, 0, 0, 0, 0, \frac{46}{7977}\sqrt{1342e^{12}}, \frac{115}{7977}\sqrt{82e^{14}} + \frac{23}{7977}\sqrt{978e^{23}},$ $\frac{23}{7977}\sqrt{922e^{13}} + \frac{23}{7977}\sqrt{3786e^{56}}$	$(\frac{92}{2659}, \frac{138}{2659}, -\frac{391}{7977}, -\frac{253}{7977}, \frac{1219}{7977}, -\frac{1334}{7977}, \frac{230}{2659}, \frac{23}{7977}, -\frac{115}{7977})$ $+ \frac{23}{7977}\sqrt{3674e^1} \otimes e_4 + \frac{23}{7977}\sqrt{5106e^5} \otimes e_7 + \frac{46}{7977}\sqrt{1514e^2} \otimes e_9$	{12356, 1679}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{299}\sqrt{4579e^{12}}, \frac{2}{897}\sqrt{24582e^{14}} + \frac{2}{299}\sqrt{4579e^{23}},$ $\frac{2}{897}\sqrt{17834e^{13}} + \frac{2}{897}\sqrt{46754e^{56}}$	$(-\frac{11}{299}, \frac{314}{897}, -\frac{45}{299}, \frac{212}{897}, \frac{157}{897}, -\frac{25}{69}, \frac{281}{897}, \frac{179}{897}, -\frac{56}{299})$ $+ \frac{2}{897}\sqrt{131586e^2} \otimes e_9 + \frac{482}{897}e^5 \otimes e_6$	{1579, 1679, 3589, 3689}
93:30	$0, 0, 0, 0, 0, 0, \frac{75}{1793}\sqrt{95e^{12}}, \frac{75}{1793}\sqrt{11e^{14}} + \frac{100}{1793}\sqrt{19e^{23}},$ $\frac{25}{1793}\sqrt{7e^{13}} + \frac{25}{1793}\sqrt{622e^{56}}$	$(-\frac{300}{1793}, \frac{350}{1793}, \frac{25}{1793}, \frac{675}{1793}, \frac{175}{1793}, -\frac{450}{1793}, \frac{50}{1793}, \frac{375}{1793}, -\frac{25}{163})$ $+ \frac{150}{1793}\sqrt{42e^2} \otimes e_9 + \frac{25}{1793}\sqrt{1102e^4} \otimes e_7 + \frac{625}{1793}e^5 \otimes e_6$	{135789, 136789}
93:30	$0, 0, 0, 0, 0, 0, \frac{1}{26}\sqrt{39e^{12}}, \frac{1}{13}\sqrt{13e^{14}} + \frac{1}{26}\sqrt{39e^{23}},$ $\frac{1}{13}\sqrt{39e^{13}} + \frac{1}{26}\sqrt{78e^{56}}$	$(-\frac{1}{4}, 0, \frac{1}{4}, \frac{1}{2}, 0, 0, -\frac{1}{4}, \frac{1}{4}, 0)$ $+ \frac{1}{13}\sqrt{78e^4} \otimes e_9 + \frac{1}{26}\sqrt{286e^3} \otimes e_7$	{1234, 123456, 245678, 2478}
93:30	$0, 0, 0, 0, 0, 0, \frac{25}{5621}\sqrt{1310e^{12}}, \frac{50}{5621}\sqrt{457e^{14}} + \frac{50}{5621}\sqrt{622e^{23}},$ $\frac{25}{5621}\sqrt{1554e^{13}} + \frac{25}{5621}\sqrt{3534e^{56}}$	$(-\frac{300}{5621}, \frac{50}{803}, \frac{25}{5621}, \frac{675}{5621}, \frac{1000}{5621}, -\frac{1275}{5621}, \frac{50}{5621}, \frac{375}{5621}, -\frac{25}{511})$ $+ \frac{125}{5621}\sqrt{182e^5} \otimes e_8 + \frac{25}{5621}\sqrt{2194e^4} \otimes e_7 + \frac{25}{5621}\sqrt{3514e^2} \otimes e_9$	{136789, 23567}
93:30	$0, 0, 0, 0, 0, 0, \frac{4}{929}\sqrt{14766e^{12}}, \frac{2}{929}\sqrt{23433e^{14}} + \frac{2}{929}\sqrt{23433e^{23}},$ $\frac{2}{929}\sqrt{64842e^{13}} + \frac{12}{929}\sqrt{321e^{56}}$	$(\frac{295}{929}, -\frac{17}{929}, -\frac{35}{929}, -\frac{347}{929}, \frac{451}{929}, -\frac{191}{929}, \frac{278}{929}, -\frac{52}{929}, \frac{260}{929})$ $+ \frac{2}{929}\sqrt{164994e^1} \otimes e_4 + \frac{642}{929}e^5 \otimes e_6$	{1357, 1367, 2457, 2467}
93:30	$0, 0, 0, 0, 0, 0, \frac{1}{320}\sqrt{16017e^{12}}, \frac{1}{320}\sqrt{59010e^{14}} + \frac{1}{320}\sqrt{16017e^{23}},$ $\frac{1}{160}\sqrt{8711e^{13}} + \frac{1}{160}\sqrt{12083e^{56}}$	$(-\frac{171}{640}, \frac{11}{32}, \frac{39}{640}, \frac{43}{64}, -\frac{33}{320}, -\frac{33}{320}, \frac{49}{640}, \frac{259}{640}, -\frac{33}{160})$ $+ \frac{1}{320}\sqrt{150054e^4} \otimes e_9$	{134, 13456, 1589, 3579, 45678, 478}
93:30	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{385e^{12}}, \frac{63}{1289}\sqrt{2e^{14}} + \frac{36}{1289}\sqrt{46e^{23}},$ $\frac{9}{1289}\sqrt{83e^{13}} + \frac{18}{1289}\sqrt{151e^{56}}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{153}{1289}, -\frac{198}{1289}, -\frac{45}{1289}, \frac{72}{1289}, -\frac{45}{1289})$ $+ \frac{27}{1289}\sqrt{78e^5} \otimes e_8 - \frac{9}{1289}\sqrt{683e^3} \otimes e_7 + \frac{9}{1289}\sqrt{985e^2} \otimes e_9$	{12356, 1579, 278, 3689}
93:30	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{385e^{12}}, \frac{63}{1289}\sqrt{2e^{14}} + \frac{36}{1289}\sqrt{46e^{23}},$ $\frac{9}{1289}\sqrt{83e^{13}} + \frac{18}{1289}\sqrt{151e^{56}}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{153}{1289}, -\frac{198}{1289}, -\frac{45}{1289}, \frac{72}{1289}, -\frac{45}{1289})$ $+ \frac{27}{1289}\sqrt{78e^5} \otimes e_8 + \frac{9}{1289}\sqrt{683e^3} \otimes e_7 + \frac{9}{1289}\sqrt{985e^2} \otimes e_9$	{12356, 1579, 278, 3689}
93:30	$0, 0, 0, 0, 0, 0, \frac{36}{1057}\sqrt{67e^{12}}, \frac{18}{1057}\sqrt{215e^{14}} + \frac{36}{1057}\sqrt{67e^{23}},$ $\frac{180}{1057}\sqrt{2e^{13}} + \frac{36}{1057}\sqrt{34e^{56}}$	$(-\frac{162}{1057}, \frac{72}{1057}, \frac{72}{1057}, \frac{306}{1057}, -\frac{45}{1057}, -\frac{45}{1057}, -\frac{90}{1057}, \frac{144}{1057}, -\frac{90}{1057})$ $+ \frac{18}{1057}\sqrt{449e^3} \otimes e_7 + \frac{18}{1057}\sqrt{517e^2} \otimes e_9$	{123, 12356, 1579, 25678, 278, 3589}
93:30	$0, 0, 0, 0, 0, 0, \frac{36}{1057}\sqrt{67e^{12}}, \frac{18}{1057}\sqrt{215e^{14}} + \frac{36}{1057}\sqrt{67e^{23}},$ $\frac{180}{1057}\sqrt{2e^{13}} + \frac{36}{1057}\sqrt{34e^{56}}$	$(-\frac{162}{1057}, \frac{72}{1057}, \frac{72}{1057}, \frac{306}{1057}, -\frac{45}{1057}, -\frac{45}{1057}, -\frac{90}{1057}, \frac{144}{1057}, -\frac{90}{1057})$ $- \frac{18}{1057}\sqrt{449e^3} \otimes e_7 + \frac{18}{1057}\sqrt{517e^2} \otimes e_9$	{123, 12356, 1579, 25678, 278, 3589}
93:30	$0, 0, 0, 0, 0, 0, \frac{22}{3009}\sqrt{2410e^{12}}, \frac{22}{3009}\sqrt{2345e^{14}} + \frac{110}{3009}\sqrt{39e^{23}},$ $\frac{22}{3009}\sqrt{195e^{13}} + \frac{44}{3009}\sqrt{1270e^{56}}$	$(-\frac{195}{1003}, \frac{40}{3009}, \frac{11}{3009}, \frac{1186}{3009}, \frac{665}{3009}, -\frac{689}{3009}, -\frac{545}{3009}, \frac{601}{3009}, -\frac{8}{1003})$ $+ \frac{22}{3009}\sqrt{6770e^5} \otimes e_7 + \frac{88}{3009}\sqrt{415e^4} \otimes e_9$	{123589, 12456, 23478, 2679}
93:30	$0, 0, 0, 0, 0, 0, \frac{14}{929}\sqrt{903e^{12}}, \frac{4}{929}\sqrt{8729e^{14}} + \frac{14}{929}\sqrt{903e^{23}},$ $\frac{4}{929}\sqrt{11739e^{13}} + \frac{6}{929}\sqrt{602e^{56}}$	$(-\frac{85}{929}, -\frac{192}{929}, \frac{325}{929}, \frac{218}{929}, \frac{421}{929}, -\frac{181}{929}, -\frac{277}{929}, \frac{133}{929}, \frac{240}{929})$ $+ \frac{2}{929}\sqrt{158326e^3} \otimes e_7 + \frac{602}{929}e^5 \otimes e_6$	{1235, 1236, 2578, 2678}
93:30	$0, 0, 0, 0, 0, 0, \frac{4}{169}\sqrt{39e^{12}}, \frac{4}{169}\sqrt{13e^{14}} + \frac{6}{169}\sqrt{39e^{23}},$ $\frac{6}{169}\sqrt{13e^{13}} + \frac{6}{169}\sqrt{78e^{56}}$	$(-\frac{1}{13}, 0, \frac{1}{13}, \frac{2}{13}, \frac{3}{13}, -\frac{3}{13}, -\frac{1}{13}, \frac{1}{13}, 0)$ $+ \frac{2}{13}\sqrt{6e^5} \otimes e_8 + \frac{4}{169}\sqrt{195e^4} \otimes e_9 + \frac{8}{169}\sqrt{13e^3} \otimes e_7$	{13689, 579}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{317}\sqrt{17810e^{12}}, \frac{2}{317}\sqrt{411e^{14}} + \frac{2}{317}\sqrt{411e^{23}},$ $\frac{2}{317}\sqrt{9179e^{13}} + \frac{16}{317}\sqrt{274e^{56}}$	$(-\frac{9}{317}, -\frac{76}{317}, \frac{121}{317}, \frac{54}{317}, \frac{189}{317}, -\frac{77}{317}, -\frac{85}{317}, \frac{45}{317}, \frac{112}{317})$ $+ \frac{2}{317}\sqrt{36442e^5} \otimes e_7$	{1234589, 1256, 13679, 1478, 2378, 24679, 3456, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:30	$0, 0, 0, 0, 0, 0, \frac{5}{78}\sqrt{30}e^{12}, \frac{5}{78}\sqrt{30}e^{14} + \frac{5}{78}\sqrt{30}e^{23},$ $\frac{5}{78}\sqrt{5}e^{13} + \frac{25}{78}\sqrt{2}e^{56}$	$(\frac{3}{26}, \frac{19}{156}, \frac{2}{13}, \frac{25}{156}, \frac{73}{78}, -\frac{2}{3}, \frac{37}{156}, \frac{43}{156}, \frac{7}{26})$ $+ \frac{125}{78}e^5 \otimes e_6$	{12589, 12689, 14579, 14679, 23579, 23679, 34589, 34689}
93:30	$0, 0, 0, 0, 0, 0, \frac{4}{437}\sqrt{267}e^{12}, \frac{2}{437}\sqrt{5785}e^{14} + \frac{6}{437}\sqrt{1335}e^{23},$ $\frac{6}{437}\sqrt{445}e^{13} + \frac{2}{437}\sqrt{10146}e^{56}$	$(\frac{1}{23}, -\frac{96}{437}, \frac{101}{437}, -\frac{14}{437}, \frac{183}{437}, -\frac{63}{437}, -\frac{77}{437}, \frac{5}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{21894}e^5 \otimes e_8 + \frac{4}{437}\sqrt{3115}e^3 \otimes e_7$	{123459, 14567, 246789, 348}
93:30	$0, 0, 0, 0, 0, 0, \frac{3}{328}\sqrt{4579}e^{12}, \frac{1}{328}\sqrt{24582}e^{14} + \frac{3}{328}\sqrt{4579}e^{23},$ $\frac{1}{328}\sqrt{17834}e^{13} + \frac{1}{328}\sqrt{46754}e^{56}$	$(-\frac{33}{656}, \frac{157}{328}, -\frac{135}{656}, \frac{53}{164}, -\frac{21}{164}, -\frac{21}{164}, \frac{281}{656}, \frac{179}{656}, -\frac{21}{82})$ $+ \frac{1}{328}\sqrt{131586}e^2 \otimes e_9$	{123, 12356, 1579, 25678, 278, 3589}
93:30	$0, 0, 0, 0, 0, 0, \frac{23}{2081}\sqrt{1039}e^{12}, \frac{23}{2081}\sqrt{607}e^{14} + \frac{46}{2081}\sqrt{78}e^{23},$ $\frac{23}{2081}\sqrt{811}e^{13} + \frac{46}{2081}\sqrt{114}e^{56}$	$(\frac{276}{2081}, \frac{414}{2081}, -\frac{391}{2081}, -\frac{253}{2081}, \frac{207}{2081}, -\frac{322}{2081}, \frac{690}{2081}, \frac{23}{2081}, -\frac{115}{2081})$ $+ \frac{23}{2081}\sqrt{1454}e^1 \otimes e_4 + \frac{23}{2081}\sqrt{1838}e^2 \otimes e_9 + \frac{529}{2081}e^5 \otimes e_6$	{1579, 1679}
93:30	$0, 0, 0, 0, 0, 0, \frac{1}{93}\sqrt{1105}e^{12}, \frac{1}{93}\sqrt{755}e^{14} + \frac{10}{93}\sqrt{2}e^{23},$ $\frac{1}{93}\sqrt{1265}e^{13} + \frac{8}{93}\sqrt{5}e^{56}$	$(\frac{10}{93}, -\frac{20}{93}, \frac{5}{31}, -\frac{5}{31}, \frac{25}{93}, 0, -\frac{10}{93}, -\frac{5}{93}, \frac{25}{93})$ $+ \frac{1}{93}\sqrt{1810}e^1 \otimes e_4 + \frac{1}{93}\sqrt{1910}e^3 \otimes e_7 + \frac{25}{93}e^5 \otimes e_6$	{1235, 1236}
93:30	$0, 0, 0, 0, 0, 0, \frac{1}{17}\sqrt{34}e^{12}, \frac{1}{17}\sqrt{14}e^{14} + \frac{2}{17}\sqrt{5}e^{23},$ $\frac{4}{17}\sqrt{2}e^{13} + \frac{2}{17}e^{56}$	$(\frac{2}{17}, -\frac{4}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{17}\sqrt{30}e^5 \otimes e_8 + \frac{1}{17}\sqrt{58}e^1 \otimes e_4 + \frac{2}{17}\sqrt{17}e^3 \otimes e_7$	{12356, 1579}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{809}\sqrt{51491}e^{12}, \frac{8}{809}\sqrt{682}e^{14} + \frac{8}{809}\sqrt{682}e^{23},$ $\frac{31}{809}\sqrt{22}e^{13} + \frac{7}{809}\sqrt{2046}e^{56}$	$(\frac{145}{809}, -\frac{161}{809}, \frac{110}{809}, -\frac{196}{809}, \frac{325}{809}, -\frac{70}{809}, -\frac{16}{809}, -\frac{51}{809}, \frac{255}{809})$ $+ \frac{1}{809}\sqrt{229834}e^1 \otimes e_4 + \frac{1}{809}\sqrt{269390}e^5 \otimes e_7$	{1259, 137, 247, 3459}
93:30	$0, 0, 0, 0, 0, 0, \frac{2}{3101}\sqrt{92082}e^{12}, \frac{4}{3101}\sqrt{118455}e^{14} + \frac{4}{3101}\sqrt{58110}e^{23},$ $\frac{2}{3101}\sqrt{359835}e^{13} + \frac{6}{3101}\sqrt{46786}e^{56}$	$(-\frac{148}{3101}, -\frac{59}{443}, \frac{598}{3101}, \frac{333}{3101}, \frac{1079}{3101}, -\frac{629}{3101}, -\frac{561}{3101}, \frac{185}{3101}, \frac{450}{3101})$ $+ \frac{36}{3101}\sqrt{1490}e^4 \otimes e_7 + \frac{4}{3101}\sqrt{190869}e^5 \otimes e_8$	{123459, 136789, 23567, 348}
93:30	$0, 0, 0, 0, 0, 0, \frac{3}{239}\sqrt{1793}e^{12}, \frac{3}{239}\sqrt{1793}e^{14} + \frac{4}{239}\sqrt{326}e^{23},$ $\frac{1}{239}\sqrt{163}e^{13} + \frac{1}{239}\sqrt{5542}e^{56}$	$(-\frac{48}{239}, -\frac{7}{239}, \frac{67}{239}, \frac{108}{239}, \frac{91}{239}, \frac{72}{239}, -\frac{55}{239}, \frac{60}{239}, \frac{19}{239})$ $+ \frac{163}{239}e^5 \otimes e_6 + \frac{1}{239}\sqrt{42706}e^4 \otimes e_7$	{2579, 2679, 4589, 4689}
93:30	$0, 0, 0, 0, 0, 0, \frac{4}{3057}\sqrt{14681}e^{12}, \frac{2}{3057}\sqrt{91687}e^{14} + \frac{2}{3057}\sqrt{265089}e^{23},$ $\frac{2}{3057}\sqrt{98889}e^{13} + \frac{2}{3057}\sqrt{315226}e^{56}$	$(\frac{43}{1019}, \frac{398}{3057}, -\frac{95}{1019}, -\frac{16}{3057}, \frac{667}{3057}, -\frac{823}{3057}, \frac{527}{3057}, \frac{113}{3057}, -\frac{52}{1019})$ $+ \frac{2}{3057}\sqrt{412730}e^5 \otimes e_8 + \frac{4}{3057}\sqrt{86701}e^2 \otimes e_9$	{128, 136789, 23567, 59}
93:30	$0, 0, 0, 0, 0, 0, \frac{7}{314}\sqrt{903}e^{12}, \frac{1}{157}\sqrt{8729}e^{14} + \frac{7}{314}\sqrt{903}e^{23},$ $\frac{1}{157}\sqrt{11739}e^{13} + \frac{3}{314}\sqrt{602}e^{56}$	$(-\frac{85}{628}, -\frac{48}{157}, \frac{325}{628}, \frac{109}{314}, \frac{30}{157}, \frac{30}{157}, -\frac{277}{628}, \frac{133}{628}, \frac{60}{157})$ $+ \frac{1}{314}\sqrt{158326}e^3 \otimes e_7$	{1235, 15679, 179, 2578, 35689, 389}
93:30	$0, 0, 0, 0, 0, 0, \frac{4}{3449}\sqrt{25935}e^{12}, \frac{2}{3449}\sqrt{342285}e^{14} + \frac{2}{3449}\sqrt{149055}e^{23},$ $\frac{2}{3449}\sqrt{89205}e^{13} + \frac{114}{3449}\sqrt{110}e^{56}$	$(-\frac{205}{3449}, \frac{160}{3449}, \frac{109}{3449}, \frac{474}{3449}, \frac{839}{3449}, -\frac{935}{3449}, -\frac{45}{3449}, \frac{269}{3449}, -\frac{96}{3449})$ $+ \frac{12}{3449}\sqrt{10735}e^4 \otimes e_9 + \frac{2}{3449}\sqrt{505590}e^5 \otimes e_8$	{13689, 1456, 3478, 579}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{239}\sqrt{8018}e^{12}, \frac{3}{239}\sqrt{2110}e^{13} + \frac{1}{239}\sqrt{29962}e^{24},$ $\frac{1}{239}\sqrt{8018}e^{15} + \frac{1}{239}\sqrt{29962}e^{36}$	$(\frac{33}{239}, -\frac{12}{239}, -\frac{76}{239}, -\frac{31}{239}, \frac{59}{239}, \frac{168}{239}, \frac{21}{239}, -\frac{43}{239}, \frac{92}{239})$ $+ \frac{1}{239}\sqrt{83978}e^6 \otimes e_8$	{123467, 1278, 136, 148, 2389, 2469, 34789, 679}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{319}\sqrt{4811}e^{12}, \frac{1}{319}\sqrt{5943}e^{13} + \frac{1}{319}\sqrt{29715}e^{24},$ $\frac{7}{638}\sqrt{1698}e^{15} + \frac{9}{638}\sqrt{283}e^{36}$	$(-\frac{175}{1276}, -\frac{217}{1276}, \frac{3}{29}, \frac{3}{22}, \frac{523}{1276}, \frac{54}{319}, -\frac{98}{319}, -\frac{43}{1276}, \frac{3}{11})$ $+ \frac{1}{638}\sqrt{193006}e^5 \otimes e_8 + \frac{3}{638}\sqrt{14433}e^4 \otimes e_7$	{12789, 1489, 2459, 579}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{3733}\sqrt{968190}e^{12}, \frac{2}{3733}\sqrt{302491}e^{13} + \frac{2}{3733}\sqrt{171758}e^{24},$ $\frac{2}{3733}\sqrt{388370}e^{15} + \frac{12}{3733}\sqrt{18051}e^{36}$	$(-\frac{232}{3733}, \frac{251}{3733}, -\frac{360}{3733}, -\frac{843}{3733}, \frac{985}{3733}, \frac{1113}{3733}, \frac{19}{3733}, -\frac{592}{3733}, \frac{753}{3733})$ $+ \frac{2}{3733}\sqrt{1108222}e^6 \otimes e_7 + \frac{4}{3733}\sqrt{195826}e^2 \otimes e_4$	{12569, 147, 2379, 3456}
93:31	$0, 0, 0, 0, 0, 0, \frac{6}{2849}\sqrt{1034}e^{12}, \frac{6}{2849}\sqrt{33699}e^{13} + \frac{6}{2849}\sqrt{40890}e^{24},$ $\frac{60}{2849}\sqrt{470}e^{15} + \frac{24}{2849}\sqrt{1598}e^{36}$	$(-\frac{20}{2849}, -\frac{607}{2849}, \frac{458}{2849}, \frac{95}{259}, \frac{219}{2849}, -\frac{1}{11}, -\frac{57}{259}, \frac{438}{2849}, \frac{199}{2849})$ $+ \frac{6}{2849}\sqrt{43898}e^5 \otimes e_7 + \frac{6}{2849}\sqrt{76610}e^4 \otimes e_9$	{1245, 1679, 23467, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{164}{589}\sqrt{2}e^{12}, \frac{8}{589}\sqrt{1763}e^{13} + \frac{4}{589}\sqrt{11521}e^{24},$ $\frac{4}{589}\sqrt{9061}e^{15} + \frac{24}{589}\sqrt{205}e^{36}$	$(\frac{117}{589}, -\frac{115}{589}, \frac{4}{31}, \frac{308}{589}, -\frac{137}{589}, -\frac{96}{589}, \frac{2}{589}, \frac{193}{589}, -\frac{20}{589})$ $+ \frac{4}{589}\sqrt{20705}e^4 \otimes e_9$	{123789, 12457, 134568, 169, 2346, 25689, 3579, 478}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{13}e^{12}, \frac{4}{25}\sqrt{2}e^{13} + \frac{2}{25}e^{24},$ $\frac{1}{25}\sqrt{42}e^{15} + \frac{2}{25}\sqrt{14}e^{36}$	$(-\frac{7}{50}, \frac{1}{25}, \frac{3}{50}, -\frac{3}{25}, \frac{7}{25}, \frac{2}{25}, -\frac{1}{10}, -\frac{2}{25}, \frac{7}{50})$ $+\frac{1}{25}\sqrt{42}e^2 \otimes e_4 + \frac{1}{25}\sqrt{58}e^6 \otimes e_8 + \frac{1}{25}\sqrt{86}e^3 \otimes e_7$	{1236, 2679}
93:31	$0, 0, 0, 0, 0, 0, \frac{42}{3209}\sqrt{462}e^{12}, \frac{6}{3209}\sqrt{5005}e^{13} + \frac{30}{3209}\sqrt{2926}e^{24},$ $\frac{12}{3209}\sqrt{4466}e^{15} + \frac{6}{3209}\sqrt{52899}e^{36}$	$(\frac{223}{3209}, -\frac{894}{3209}, -\frac{402}{3209}, \frac{715}{3209}, \frac{582}{3209}, \frac{1207}{3209}, -\frac{671}{3209}, -\frac{179}{3209}, \frac{805}{3209})$ $+\frac{12}{3209}\sqrt{29722}e^6 \otimes e_8 + \frac{6}{3209}\sqrt{101255}e^4 \otimes e_7$	{12346, 1367, 23789, 3489}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{163}\sqrt{2378}e^{12}, \frac{2}{163}\sqrt{779}e^{13} + \frac{4}{163}\sqrt{82}e^{24},$ $\frac{8}{163}\sqrt{41}e^{15} + \frac{2}{163}\sqrt{246}e^{36}$	$(-\frac{40}{163}, \frac{35}{163}, \frac{28}{163}, -\frac{47}{163}, \frac{77}{163}, \frac{9}{163}, \frac{5}{163}, -\frac{12}{163}, \frac{37}{163})$ $+\frac{2}{163}\sqrt{2870}e^2 \otimes e_4 + \frac{2}{163}\sqrt{3198}e^5 \otimes e_7$	{125, 14679, 2367, 3459}
93:31	$0, 0, 0, 0, 0, 0, \frac{16}{117}\sqrt{33}e^{12}, \frac{64}{117}e^{13} + \frac{16}{117}e^{24}, \frac{16}{117}\sqrt{33}e^{15} + \frac{16}{117}e^{36}$	$(-\frac{10}{39}, -\frac{14}{117}, \frac{35}{117}, \frac{19}{117}, \frac{28}{39}, \frac{19}{117}, -\frac{44}{117}, \frac{5}{117}, \frac{6}{13})$ $+\frac{16}{117}\sqrt{97}e^5 \otimes e_7$	{123568, 1245, 134789, 1679, 23467, 278, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{45}{5069}\sqrt{2210}e^{12}, \frac{630}{5069}e^{13} + \frac{45}{5069}\sqrt{566}e^{24},$ $\frac{90}{5069}\sqrt{83}e^{15} + \frac{90}{5069}\sqrt{298}e^{36}$	$(-\frac{720}{5069}, \frac{630}{5069}, -\frac{45}{5069}, -\frac{1395}{5069}, \frac{1935}{5069}, \frac{1260}{5069}, -\frac{90}{5069}, -\frac{765}{5069}, \frac{1215}{5069})$ $+\frac{180}{5069}\sqrt{206}e^5 \otimes e_7 + \frac{45}{5069}\sqrt{2806}e^6 \otimes e_8 + \frac{45}{5069}\sqrt{3130}e^2 \otimes e_4$	{134789, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{88}\sqrt{570}e^{12}, \frac{1}{44}\sqrt{190}e^{13} + \frac{1}{44}\sqrt{130}e^{24},$ $\frac{1}{88}\sqrt{570}e^{15} + \frac{1}{44}\sqrt{130}e^{36}$	$(-\frac{5}{44}, \frac{7}{44}, \frac{7}{88}, -\frac{17}{88}, \frac{7}{44}, -\frac{3}{88}, \frac{1}{22}, -\frac{3}{88}, \frac{1}{22})$ $+\frac{1}{44}\sqrt{70}e^3 \otimes e_6 + \frac{1}{88}\sqrt{1190}e^2 \otimes e_9 + \frac{1}{88}\sqrt{670}e^5 \otimes e_7$	{123568, 1245, 23467, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{88}\sqrt{570}e^{12}, \frac{1}{44}\sqrt{190}e^{13} + \frac{1}{44}\sqrt{130}e^{24},$ $\frac{1}{88}\sqrt{570}e^{15} + \frac{1}{44}\sqrt{130}e^{36}$	$(-\frac{5}{44}, \frac{7}{44}, \frac{7}{88}, -\frac{17}{88}, \frac{7}{44}, -\frac{3}{88}, \frac{1}{22}, -\frac{3}{88}, \frac{1}{22})$ $+\frac{1}{44}\sqrt{70}e^3 \otimes e_6 + \frac{1}{88}\sqrt{1190}e^2 \otimes e_9 - \frac{1}{88}\sqrt{670}e^5 \otimes e_7$	{123568, 1245, 23467, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{12}{451}\sqrt{201}e^{12}, \frac{2}{451}\sqrt{18291}e^{13} + \frac{2}{451}\sqrt{7437}e^{24},$ $\frac{3}{451}\sqrt{2881}e^{15} + \frac{3}{451}\sqrt{1273}e^{36}$	$(\frac{70}{451}, \frac{34}{451}, \frac{70}{451}, \frac{106}{451}, -\frac{131}{451}, -\frac{131}{451}, \frac{104}{451}, \frac{140}{451}, -\frac{61}{451})$ $-\frac{1}{451}\sqrt{76983}e^3 \otimes e_6 + \frac{1}{451}\sqrt{91455}e^1 \otimes e_5$	{123, 12468, 1347, 1678, 234578, 2567, 358, 456}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{311}\sqrt{618}e^{12}, \frac{12}{311}\sqrt{170}e^{13} + \frac{24}{311}\sqrt{10}e^{24},$ $\frac{8}{311}\sqrt{201}e^{15} + \frac{4}{311}\sqrt{834}e^{36}$	$(\frac{266}{933}, -\frac{68}{933}, \frac{299}{933}, \frac{35}{933}, -\frac{166}{933}, \frac{133}{933}, \frac{66}{933}, -\frac{11}{311}, \frac{100}{933})$ $+\frac{4}{311}\sqrt{2370}e^1 \otimes e_5 + \frac{4}{311}\sqrt{2658}e^6 \otimes e_8$	{12346, 128, 1367, 1478}
93:31	$0, 0, 0, 0, 0, 0, \frac{155}{8161}\sqrt{290}e^{12}, \frac{186}{8161}\sqrt{2}e^{13} + \frac{31}{8161}\sqrt{2174}e^{24},$ $\frac{31}{8161}\sqrt{3326}e^{15} + \frac{744}{8161}\sqrt{6}e^{36}$	$(\frac{713}{8161}, \frac{155}{8161}, -\frac{1364}{8161}, -\frac{806}{8161}, -\frac{248}{8161}, \frac{1829}{8161}, \frac{868}{8161}, -\frac{651}{8161}, \frac{465}{8161})$ $+\frac{31}{8161}\sqrt{4586}e^2 \otimes e_4 + \frac{31}{8161}\sqrt{4622}e^1 \otimes e_5 + \frac{31}{8161}\sqrt{6314}e^6 \otimes e_7$	{1236, 257}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{21}e^{12}, \frac{3}{49}\sqrt{3}e^{13} + \frac{2}{49}\sqrt{30}e^{24},$ $\frac{11}{49}e^{15} + \frac{1}{49}\sqrt{3}e^{36}$	$(\frac{5}{196}, -\frac{3}{28}, -\frac{2}{49}, \frac{9}{98}, \frac{5}{98}, \frac{9}{98}, -\frac{4}{49}, -\frac{3}{196}, \frac{5}{98})$ $+\frac{1}{49}\sqrt{111}e^5 \otimes e_8 + \frac{1}{49}\sqrt{123}e^4 \otimes e_9 + \frac{1}{49}\sqrt{53}e^3 \otimes e_7$	{1236789, 35679}
93:31	$0, 0, 0, 0, 0, 0, \frac{3}{1397}\sqrt{3066}e^{12}, \frac{12}{1397}\sqrt{138}e^{13} + \frac{12}{1397}\sqrt{78}e^{24},$ $\frac{36}{1397}e^{15} + \frac{3}{1397}\sqrt{23}e^{36}$	$(\frac{24}{1397}, \frac{48}{1397}, -\frac{78}{1397}, -\frac{102}{1397}, -\frac{3}{1397}, \frac{9}{127}, \frac{72}{1397}, -\frac{54}{1397}, \frac{21}{1397})$ $+\frac{3}{1397}\sqrt{3270}e^6 \otimes e_7 + \frac{3}{1397}\sqrt{3966}e^2 \otimes e_9 + \frac{3}{1397}\sqrt{510}e^1 \otimes e_5$	{134789, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{19}{6773}\sqrt{3686}e^{12}, \frac{38}{6773}\sqrt{942}e^{13} + \frac{19}{6773}\sqrt{1190}e^{24},$ $\frac{19}{6773}\sqrt{3226}e^{15} + \frac{38}{6773}\sqrt{743}e^{36}$	$(\frac{304}{6773}, -\frac{874}{6773}, -\frac{209}{6773}, \frac{969}{6773}, -\frac{57}{6773}, \frac{456}{6773}, -\frac{570}{6773}, \frac{95}{6773}, \frac{19}{521})$ $+\frac{1064}{6773}e^6 \otimes e_8 + \frac{19}{6773}\sqrt{5574}e^3 \otimes e_7 + \frac{38}{6773}\sqrt{1022}e^1 \otimes e_5$	{1236, 178}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{20822}e^{12}, \frac{1}{287}\sqrt{13283}e^{13} + \frac{4}{287}\sqrt{718}e^{24},$ $\frac{1}{287}\sqrt{19027}e^{15} + \frac{3}{287}\sqrt{2513}e^{36}$	$(-\frac{43}{574}, \frac{187}{287}, \frac{73}{574}, -\frac{172}{287}, \frac{76}{287}, \frac{18}{287}, \frac{331}{287}, \frac{15}{287}, \frac{109}{574})$ $+\frac{5}{287}\sqrt{6821}e^2 \otimes e_4$	{12, 12569, 145679, 147, 23567, 2379, 3456, 349}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{459}\sqrt{1155}e^{12}, \frac{4}{459}\sqrt{770}e^{13} + \frac{28}{459}\sqrt{55}e^{24},$ $\frac{4}{459}\sqrt{1155}e^{15} + \frac{28}{459}\sqrt{55}e^{36}$	$(-\frac{10}{153}, -\frac{52}{459}, -\frac{41}{459}, -\frac{19}{459}, \frac{22}{51}, \frac{209}{459}, -\frac{82}{459}, -\frac{71}{459}, \frac{56}{153})$ $+\frac{4}{459}\sqrt{6055}e^5 \otimes e_7 + \frac{8}{459}\sqrt{1995}e^6 \otimes e_8$	{123456, 1258, 34589, 569}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{169}\sqrt{3838}e^{12}, \frac{1}{169}\sqrt{3030}e^{13} + \frac{5}{169}\sqrt{202}e^{24},$ $\frac{1}{169}\sqrt{3434}e^{15} + \frac{1}{169}\sqrt{7474}e^{36}$	$(\frac{3}{169}, \frac{36}{169}, -\frac{32}{169}, -\frac{5}{13}, \frac{37}{169}, \frac{72}{169}, \frac{3}{13}, -\frac{29}{169}, \frac{40}{169})$ $+\frac{1}{169}\sqrt{17978}e^6 \otimes e_8 + \frac{2}{169}\sqrt{3030}e^2 \otimes e_4$	{128, 1478, 23789, 3489}
93:31	$0, 0, 0, 0, 0, 0, \frac{50}{811}\sqrt{22}e^{12}, \frac{10}{811}\sqrt{330}e^{13} + \frac{20}{811}\sqrt{330}e^{24},$ $\frac{30}{811}\sqrt{110}e^{15} + \frac{30}{811}\sqrt{110}e^{36}$	$(-\frac{85}{811}, -\frac{85}{811}, -\frac{30}{811}, -\frac{30}{811}, \frac{385}{811}, \frac{330}{811}, -\frac{170}{811}, -\frac{115}{811}, \frac{300}{811})$ $+\frac{10}{811}\sqrt{3270}e^6 \otimes e_7 + \frac{20}{811}\sqrt{955}e^5 \otimes e_8$	{123456, 12689, 3468, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{1406}e^{12}, \frac{1}{121}\sqrt{2553}e^{13} + \frac{6}{121}\sqrt{111}e^{24},$ $\frac{1}{121}\sqrt{4551}e^{15} + \frac{3}{121}\sqrt{185}e^{36}$	$(-\frac{97}{484}, \frac{29}{121}, \frac{3}{44}, -\frac{45}{121}, \frac{58}{121}, \frac{51}{242}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{1}{121}\sqrt{11026}e^5 \otimes e_8 + \frac{1}{121}\sqrt{4773}e^2 \otimes e_4$	{12789, 1489, 238, 3478}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{221}\sqrt{3243}e^{12}, \frac{3}{221}\sqrt{391}e^{13} + \frac{2}{221}\sqrt{1173}e^{24},$ $\frac{3}{221}\sqrt{805}e^{15} + \frac{3}{221}\sqrt{851}e^{36}$	$(-\frac{99}{442}, \frac{3}{17}, \frac{9}{34}, -\frac{30}{221}, \frac{70}{221}, -\frac{38}{221}, -\frac{21}{442}, \frac{9}{221}, \frac{442}{442})$ $+ \frac{1}{221}\sqrt{11247}e^2 \otimes e_4 + \frac{2}{221}\sqrt{4209}e^3 \otimes e_7$	{12359, 1236, 257, 2679}
93:31	$0, 0, 0, 0, 0, 0, \frac{11}{1229}\sqrt{42}e^{12}, \frac{11}{1229}\sqrt{1662}e^{13} + \frac{11}{1229}\sqrt{2130}e^{24},$ $\frac{22}{1229}\sqrt{618}e^{15} + \frac{22}{1229}\sqrt{330}e^{36}$	$(-\frac{22}{1229}, -\frac{242}{1229}, \frac{220}{1229}, \frac{440}{1229}, \frac{99}{1229}, -\frac{143}{1229}, \frac{264}{1229}, \frac{198}{1229}, \frac{77}{1229})$ $+ \frac{11}{1229}\sqrt{2346}e^5 \otimes e_7 + \frac{11}{1229}\sqrt{258}e^3 \otimes e_6 + \frac{495}{1229}\sqrt{2}e^4 \otimes e_9$	{1679, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{3717}\sqrt{38958}e^{12}, \frac{2}{3717}\sqrt{177123}e^{13} + \frac{2}{3717}\sqrt{194186}e^{24},$ $\frac{4}{3717}\sqrt{19177}e^{15} + \frac{64}{3717}\sqrt{151}e^{36}$	$(-\frac{4}{413}, \frac{89}{3717}, \frac{160}{1239}, \frac{355}{3717}, -\frac{1}{21}, -\frac{11}{59}, \frac{53}{3717}, \frac{148}{1239}, -\frac{71}{1239})$ $+ \frac{2}{3717}\sqrt{197810}e^4 \otimes e_7 + \frac{4}{3717}\sqrt{78369}e^2 \otimes e_9$	{1245, 1679, 278, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{299}\sqrt{1122}e^{12}, \frac{8}{299}\sqrt{374}e^{13} + \frac{12}{299}\sqrt{187}e^{24},$ $\frac{4}{299}\sqrt{1122}e^{15} + \frac{12}{299}\sqrt{187}e^{36}$	$(-\frac{2}{299}, \frac{110}{299}, \frac{55}{299}, -\frac{57}{299}, -\frac{24}{299}, -\frac{81}{299}, \frac{108}{299}, \frac{53}{299}, -\frac{2}{23})$ $+ \frac{4}{299}\sqrt{3961}e^2 \otimes e_9 + \frac{8}{299}\sqrt{102}e^3 \otimes e_6$	{134789, 1679, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{130}e^{12}, \frac{10}{33}e^{13} + \frac{1}{33}\sqrt{70}e^{24},$ $\frac{1}{11}\sqrt{10}e^{15} + \frac{2}{33}\sqrt{15}e^{36}$	$(\frac{2}{33}, -\frac{4}{33}, \frac{1}{11}, \frac{3}{11}, -\frac{1}{11}, -\frac{4}{33}, -\frac{2}{33}, \frac{5}{33}, -\frac{1}{33})$ $+ \frac{1}{33}\sqrt{170}e^3 \otimes e_7 + \frac{2}{33}\sqrt{35}e^1 \otimes e_5$	{1236, 178, 257, 3568}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{541994}e^{12}, \frac{4}{1147}\sqrt{27687}e^{13} + \frac{2}{1147}\sqrt{168639}e^{24},$ $\frac{1}{1147}\sqrt{780270}e^{15} + \frac{3}{1147}\sqrt{35238}e^{36}$	$(-\frac{244}{1147}, \frac{83}{1147}, \frac{87}{1147}, -\frac{240}{1147}, \frac{22}{37}, \frac{351}{1147}, -\frac{161}{1147}, -\frac{157}{1147}, \frac{438}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^5 \otimes e_8$	{123457, 12789, 135, 1489, 238, 2459, 3478, 579}
93:31	$0, 0, 0, 0, 0, 0, \frac{44}{1011}\sqrt{138}e^{12}, \frac{22}{1011}\sqrt{546}e^{13} + \frac{44}{1011}\sqrt{66}e^{24},$ $\frac{22}{1011}\sqrt{267}e^{15} + \frac{22}{337}e^{36}$	$(-\frac{175}{1011}, \frac{461}{1011}, \frac{371}{1011}, -\frac{265}{1011}, \frac{191}{1011}, -\frac{355}{1011}, \frac{286}{1011}, \frac{196}{1011}, \frac{16}{1011})$ $+ \frac{22}{1011}\sqrt{1362}e^3 \otimes e_6 + \frac{22}{1011}\sqrt{1365}e^2 \otimes e_4$	{12359, 134579, 2679, 469}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{5}e^{12}, \frac{2}{43}\sqrt{10}e^{13} + \frac{2}{43}\sqrt{30}e^{24},$ $\frac{4}{43}\sqrt{5}e^{15} + \frac{2}{43}\sqrt{30}e^{36}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{29}e^3 \otimes e_7 + \frac{2}{43}\sqrt{29}e^5 \otimes e_8 + \frac{2}{43}\sqrt{59}e^2 \otimes e_9$	{278, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{1570}e^{12}, \frac{2}{297}\sqrt{8007}e^{13} + \frac{2}{297}\sqrt{13502}e^{24},$ $\frac{4}{297}\sqrt{314}e^{15} + \frac{2}{297}\sqrt{5809}e^{36}$	$(\frac{7}{99}, -\frac{124}{297}, \frac{2}{9}, \frac{211}{297}, \frac{20}{99}, \frac{5}{99}, -\frac{103}{297}, \frac{29}{99}, \frac{3}{11})$ $+ \frac{14}{297}\sqrt{785}e^4 \otimes e_7$	{124, 124569, 15679, 17, 2578, 26789, 458, 4689}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{285}e^{12}, \frac{1}{77}\sqrt{5}e^{13} + \frac{1}{77}\sqrt{395}e^{24},$ $\frac{20}{77}e^{15} + \frac{1}{77}\sqrt{15}e^{36}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{415}e^4 \otimes e_9 + \frac{2}{77}\sqrt{105}e^5 \otimes e_8 - \frac{5}{77}\sqrt{5}e^6 \otimes e_7$	{1236789, 124567, 35679, 4678}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{285}e^{12}, \frac{1}{77}\sqrt{5}e^{13} + \frac{1}{77}\sqrt{395}e^{24},$ $\frac{20}{77}e^{15} + \frac{1}{77}\sqrt{15}e^{36}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{415}e^4 \otimes e_9 + \frac{2}{77}\sqrt{105}e^5 \otimes e_8 + \frac{5}{77}\sqrt{5}e^6 \otimes e_7$	{1236789, 124567, 35679, 4678}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{7}e^{12}, \frac{1}{13}\sqrt{5}e^{13} + \frac{1}{13}\sqrt{15}e^{24},$ $\frac{2}{13}e^{15} + \frac{4}{13}e^{36}$	$(\frac{1}{13}, \frac{2}{13}, -\frac{3}{26}, -\frac{5}{26}, -\frac{1}{13}, \frac{3}{26}, \frac{3}{13}, -\frac{1}{26}, 0)$ $+ \frac{1}{13}\sqrt{17}e^6 \otimes e_8 + \frac{1}{13}\sqrt{5}e^1 \otimes e_5 + \frac{5}{13}e^2 \otimes e_9$	{134789, 1679}
93:31	$0, 0, 0, 0, 0, 0, \frac{8}{3071}\sqrt{5385}e^{12}, \frac{24}{3071}\sqrt{145}e^{13} + \frac{4}{3071}\sqrt{39630}e^{24},$ $\frac{60}{3071}\sqrt{166}e^{15} + \frac{24}{3071}\sqrt{190}e^{36}$	$(-\frac{115}{3071}, -\frac{365}{3071}, \frac{184}{3071}, \frac{434}{3071}, \frac{309}{3071}, \frac{10}{3071}, -\frac{480}{3071}, \frac{69}{3071}, \frac{194}{3071})$ $+ \frac{4}{3071}\sqrt{45510}e^4 \otimes e_9 + \frac{8}{3071}\sqrt{9870}e^5 \otimes e_8$	{123789, 12457, 3579, 478}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{2987}\sqrt{645906}e^{12}, \frac{6}{2987}\sqrt{8798}e^{13} + \frac{4}{2987}\sqrt{50547}e^{24},$ $\frac{6}{2987}\sqrt{36354}e^{15} + \frac{6}{2987}\sqrt{41666}e^{36}$	$(\frac{665}{2987}, -\frac{653}{2987}, -\frac{674}{2987}, \frac{644}{2987}, -\frac{331}{2987}, \frac{1008}{2987}, \frac{12}{2987}, -\frac{9}{2987}, \frac{334}{2987})$ $+ \frac{2}{2987}\sqrt{758454}e^6 \otimes e_7 + \frac{4}{2987}\sqrt{152637}e^1 \otimes e_5$	{1236, 178, 257, 3568}
93:31	$0, 0, 0, 0, 0, 0, \frac{16}{547}\sqrt{213}e^{12}, \frac{128}{547}\sqrt{3}e^{13} + \frac{80}{547}\sqrt{3}e^{24},$ $\frac{16}{547}\sqrt{213}e^{15} + \frac{80}{547}\sqrt{3}e^{36}$	$(-\frac{146}{547}, \frac{14}{547}, \frac{245}{547}, \frac{85}{547}, \frac{252}{547}, -\frac{139}{547}, -\frac{132}{547}, \frac{99}{547}, \frac{106}{547})$ $+ \frac{16}{547}\sqrt{789}e^5 \otimes e_7 + \frac{64}{547}\sqrt{42}e^3 \otimes e_6$	{1235, 124568, 23478, 267}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{470}e^{12}, \frac{1}{64}\sqrt{130}e^{13} + \frac{1}{64}\sqrt{170}e^{24},$ $\frac{1}{128}\sqrt{470}e^{15} + \frac{1}{64}\sqrt{170}e^{36}$	$(-\frac{5}{64}, \frac{1}{8}, \frac{3}{128}, -\frac{23}{128}, \frac{1}{8}, \frac{3}{128}, \frac{3}{64}, -\frac{7}{128}, \frac{3}{64})$ $+ \frac{1}{128}\sqrt{570}e^5 \otimes e_7 + \frac{1}{64}\sqrt{130}e^6 \otimes e_8 + \frac{25}{128}\sqrt{2}e^2 \otimes e_9$	{134789, 1679, 23467, 278}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{470e^{12}}, \frac{1}{64}\sqrt{130e^{13}} + \frac{1}{64}\sqrt{170e^{24}},$ $\frac{1}{128}\sqrt{470e^{15}} + \frac{1}{64}\sqrt{170e^{36}}$	$(-\frac{5}{64}, \frac{1}{8}, \frac{3}{128}, -\frac{23}{128}, \frac{1}{8}, \frac{3}{128}, \frac{3}{64}, -\frac{7}{128}, \frac{3}{64})$ $-\frac{1}{128}\sqrt{570e^5} \otimes e_7 + \frac{1}{64}\sqrt{130e^6} \otimes e_8 + \frac{25}{128}\sqrt{2e^2} \otimes e_9$	{134789, 1679, 23467, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{95}{3469}\sqrt{2e^{12}}, \frac{95}{3469}\sqrt{2e^{13}} + \frac{19}{3469}\sqrt{1826e^{24}},$ $\frac{133}{3469}\sqrt{6e^{15}} + \frac{19}{3469}\sqrt{2198e^{36}}$	$(\frac{133}{3469}, -\frac{608}{3469}, -\frac{114}{3469}, \frac{627}{3469}, \frac{133}{3469}, \frac{380}{3469}, -\frac{475}{3469}, \frac{19}{3469}, \frac{266}{3469})$ $+\frac{114}{3469}\sqrt{70e^4} \otimes e_9 + \frac{19}{3469}\sqrt{2398e^6} \otimes e_8 + \frac{38}{3469}\sqrt{365e^3} \otimes e_7$	{23589, 5679}
93:31	$0, 0, 0, 0, 0, 0, \frac{246}{6089}\sqrt{58e^{12}}, \frac{123}{6089}\sqrt{170e^{13}} + \frac{533}{6089}\sqrt{10e^{24}},$ $\frac{41}{6089}\sqrt{1434e^{15}} + \frac{123}{6089}\sqrt{186e^{36}}$	$(\frac{1148}{6089}, -\frac{1394}{6089}, -\frac{1107}{6089}, \frac{1435}{6089}, -\frac{533}{6089}, \frac{1722}{6089}, -\frac{246}{6089}, \frac{41}{6089}, \frac{615}{6089})$ $+\frac{164}{6089}\sqrt{258e^6} \otimes e_8 + \frac{41}{6089}\sqrt{3490e^1} \otimes e_5 + \frac{41}{6089}\sqrt{3570e^4} \otimes e_7$	{12346, 1367}
93:31	$0, 0, 0, 0, 0, 0, \frac{43}{5981}\sqrt{2722e^{12}}, \frac{86}{5981}\sqrt{555e^{13}} + \frac{43}{5981}\sqrt{170e^{24}},$ $\frac{86}{5981}\sqrt{449e^{15}} + \frac{86}{5981}\sqrt{334e^{36}}$	$(\frac{1032}{5981}, \frac{774}{5981}, -\frac{1333}{5981}, -\frac{1075}{5981}, -\frac{817}{5981}, \frac{1548}{5981}, \frac{1806}{5981}, -\frac{301}{5981}, \frac{215}{5981})$ $+\frac{43}{5981}\sqrt{3210e^2} \otimes e_4 + \frac{43}{5981}\sqrt{3542e^6} \otimes e_8 + \frac{516}{5981}\sqrt{30e^1} \otimes e_5$	{1236, 13467}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{3107}\sqrt{407838e^{12}}, \frac{4}{3107}\sqrt{150591e^{13}} + \frac{6}{3107}\sqrt{37774e^{24}},$ $\frac{6}{3107}\sqrt{48682e^{15}} + \frac{108}{3107}\sqrt{101e^{36}}$	$(-\frac{785}{3107}, \frac{371}{3107}, \frac{854}{3107}, -\frac{302}{3107}, \frac{1281}{3107}, -\frac{358}{3107}, -\frac{414}{3107}, \frac{69}{3107}, \frac{496}{3107})$ $+\frac{2}{3107}\sqrt{1057470e^5} \otimes e_8 + \frac{2}{3107}\sqrt{668418e^3} \otimes e_6$	{123457, 135, 238, 3478}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{1534e^{12}}, \frac{2}{29}\sqrt{3e^{13}} + \frac{2}{377}\sqrt{858e^{24}},$ $\frac{1}{377}\sqrt{78e^{15}} + \frac{1}{377}\sqrt{1794e^{36}}$	$(-\frac{2}{29}, \frac{1}{29}, \frac{3}{29}, 0, \frac{2}{29}, -\frac{3}{29}, -\frac{1}{29}, \frac{1}{29}, 0)$ $+\frac{1}{377}\sqrt{1846e^5} \otimes e_8 + \frac{2}{377}\sqrt{1131e^2} \otimes e_9 + \frac{2}{377}\sqrt{663e^4} \otimes e_7$	{1245, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{8}{193}\sqrt{22e^{12}}, \frac{8}{193}\sqrt{30e^{13}} + \frac{8}{193}\sqrt{67e^{24}},$ $\frac{8}{193}\sqrt{22e^{15}} + \frac{8}{193}\sqrt{67e^{36}}$	$(\frac{6}{193}, \frac{36}{193}, -\frac{17}{193}, -\frac{47}{193}, -\frac{2}{193}, \frac{21}{193}, \frac{42}{193}, -\frac{11}{193}, \frac{4}{193})$ $+\frac{16}{193}\sqrt{17e^6} \otimes e_8 + \frac{8}{193}\sqrt{105e^2} \otimes e_9$	{134789, 1679, 23467, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{8}{1399}\sqrt{1995e^{12}}, \frac{8}{1399}\sqrt{1995e^{13}} + \frac{12}{1399}\sqrt{2310e^{24}},$ $\frac{20}{1399}\sqrt{406e^{15}} + \frac{16}{1399}\sqrt{1995e^{36}}$	$(\frac{17}{1399}, -\frac{249}{1399}, \frac{328}{1399}, \frac{594}{1399}, \frac{17}{1399}, -\frac{294}{1399}, -\frac{232}{1399}, \frac{345}{1399}, \frac{34}{1399})$ $+\frac{108}{1399}\sqrt{70e^4} \otimes e_9 + \frac{8}{1399}\sqrt{8890e^3} \otimes e_7$	{12389, 1679, 256789, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{1022e^{12}}, \frac{1}{383}\sqrt{6862e^{13}} + \frac{1}{383}\sqrt{20586e^{24}},$ $\frac{1}{383}\sqrt{17958e^{15}} + \frac{6}{383}\sqrt{219e^{36}}$	$(-\frac{44}{383}, \frac{90}{383}, \frac{32}{383}, -\frac{102}{383}, \frac{61}{383}, \frac{15}{383}, \frac{46}{383}, \frac{12}{383}, \frac{17}{383})$ $+\frac{1}{383}\sqrt{21170e^5} \otimes e_8 + \frac{1}{383}\sqrt{29054e^2} \otimes e_9$	{1245, 134789, 278, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{662}\sqrt{90598e^{12}}, \frac{1}{662}\sqrt{55106e^{13}} + \frac{9}{662}\sqrt{934e^{24}},$ $\frac{4}{331}\sqrt{467e^{15}} + \frac{1}{662}\sqrt{15411e^{36}}$	$(-\frac{95}{1324}, -\frac{203}{1324}, \frac{132}{331}, \frac{159}{331}, \frac{217}{1324}, -\frac{203}{662}, -\frac{149}{662}, \frac{433}{1324}, \frac{61}{662})$ $+\frac{1}{662}\sqrt{245642e^3} \otimes e_6 + \frac{1}{662}\sqrt{301215e^4} \otimes e_7$	{123459, 13579, 23789, 3489}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{17958e^{12}}, \frac{1}{383}\sqrt{6862e^{13}} + \frac{6}{383}\sqrt{219e^{24}},$ $\frac{1}{383}\sqrt{1022e^{15}} + \frac{1}{383}\sqrt{20586e^{36}}$	$(-\frac{44}{383}, \frac{61}{383}, \frac{90}{383}, -\frac{15}{383}, \frac{32}{383}, -\frac{102}{383}, \frac{17}{383}, \frac{46}{383}, -\frac{12}{383})$ $+\frac{1}{383}\sqrt{21170e^3} \otimes e_7 + \frac{1}{383}\sqrt{29054e^2} \otimes e_9$	{123568, 1679, 278, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{1147}\sqrt{780270e^{12}}, \frac{4}{1147}\sqrt{27687e^{13}} + \frac{3}{1147}\sqrt{35238e^{24}},$ $\frac{1}{1147}\sqrt{541994e^{15}} + \frac{2}{1147}\sqrt{168639e^{36}}$	$(-\frac{244}{1147}, -\frac{114}{1147}, \frac{13}{31}, \frac{351}{1147}, \frac{485}{1147}, -\frac{240}{1147}, -\frac{358}{1147}, \frac{237}{1147}, \frac{241}{1147})$ $+\frac{1}{1147}\sqrt{1652830e^3} \otimes e_7$	{12359, 1236, 156789, 178, 257, 2679, 3568, 389}
93:31	$0, 0, 0, 0, 0, 0, \frac{8}{445}\sqrt{182e^{12}}, \frac{56}{445}\sqrt{15e^{13}} + \frac{8}{445}\sqrt{273e^{24}},$ $\frac{8}{445}\sqrt{182e^{15}} + \frac{8}{445}\sqrt{273e^{36}}$	$(-\frac{106}{445}, -\frac{14}{445}, \frac{104}{445}, \frac{12}{445}, \frac{222}{445}, \frac{12}{445}, -\frac{24}{89}, -\frac{2}{445}, \frac{116}{445})$ $+\frac{8}{445}\sqrt{1379e^3} \otimes e_7 + \frac{8}{445}\sqrt{1379e^5} \otimes e_8$	{123456, 146789, 245679, 3468}
93:31	$0, 0, 0, 0, 0, 0, \frac{80}{331}\sqrt{6e^{12}}, \frac{90}{331}\sqrt{2e^{13}} + \frac{20}{331}\sqrt{39e^{24}},$ $\frac{10}{331}\sqrt{165e^{15}} + \frac{30}{331}\sqrt{3e^{36}}$	$(\frac{65}{331}, \frac{89}{331}, -\frac{37}{331}, -\frac{61}{331}, -\frac{85}{331}, \frac{17}{331}, \frac{154}{331}, \frac{28}{331}, -\frac{20}{331})$ $+\frac{10}{331}\sqrt{417e^2} \otimes e_4 + \frac{10}{331}\sqrt{498e^1} \otimes e_5$	{1236, 13467, 257, 45}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{571}\sqrt{60554e^{12}}, \frac{2}{571}\sqrt{22763e^{13}} + \frac{2}{571}\sqrt{6630e^{24}},$ $\frac{2}{571}\sqrt{26078e^{15}} + \frac{4}{571}\sqrt{14586e^{36}}$	$(\frac{28}{571}, -\frac{163}{571}, -\frac{80}{571}, \frac{111}{571}, \frac{199}{571}, \frac{307}{571}, -\frac{135}{571}, -\frac{52}{571}, \frac{227}{571})$ $+\frac{14}{571}\sqrt{2210e^6} \otimes e_7$	{123468, 12569, 135789, 147, 2379, 24578, 3456, 689}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1415e^{12}}, \frac{1}{223}\sqrt{51506e^{13}} + \frac{1}{223}\sqrt{8490e^{24}},$ $\frac{2}{223}\sqrt{1415e^{15}} + \frac{1}{223}\sqrt{8490e^{36}}$	$(-\frac{35}{223}, \frac{61}{223}, \frac{147}{223}, \frac{51}{223}, \frac{46}{223}, -\frac{136}{223}, \frac{26}{223}, \frac{112}{223}, \frac{11}{223})$ $+\frac{1}{223}\sqrt{105842e^3} \otimes e_6$	{1237, 124678, 134, 168, 23458, 256, 3578, 4567}
93:31	$0, 0, 0, 0, 0, 0, \frac{42}{761}\sqrt{110e^{12}}, \frac{1}{761}\sqrt{53130e^{13}} + \frac{1}{761}\sqrt{22330e^{24}},$ $\frac{1}{761}\sqrt{71610e^{15}} + \frac{11}{761}\sqrt{210e^{36}}$	$(\frac{200}{761}, -\frac{206}{761}, -\frac{27}{761}, \frac{379}{761}, -\frac{185}{761}, \frac{42}{761}, -\frac{6}{761}, \frac{173}{761}, \frac{15}{761})$ $+\frac{1}{761}\sqrt{271810e^1} \otimes e_5 + \frac{3}{761}\sqrt{28490e^4} \otimes e_7$	{12346, 1367, 235678, 34568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:31	$0, 0, 0, 0, 0, 0, \frac{3}{347}\sqrt{483e^{12}}, \frac{12}{347}\sqrt{6e^{13}} + \frac{6}{347}\sqrt{219e^{24}},$ $\frac{18}{347}\sqrt{23e^{15}} + \frac{36}{347}e^{36}$	$(-\frac{15}{347}, -\frac{39}{347}, \frac{24}{347}, \frac{48}{347}, \frac{36}{347}, -\frac{3}{347}, -\frac{54}{347}, \frac{9}{347}, \frac{21}{347})$ $+ \frac{3}{347}\sqrt{1005e^4} \otimes e_9 + \frac{3}{347}\sqrt{33e^3} \otimes e_6 + \frac{3}{347}\sqrt{885e^5} \otimes e_8$	{123789, 3579}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{6869}\sqrt{2618e^{12}}, \frac{20}{6869}\sqrt{7e^{13}} + \frac{4}{6869}\sqrt{290e^{24}},$ $\frac{1}{6869}\sqrt{1166e^{15}} + \frac{1}{6869}\sqrt{3914e^{36}}$	$(\frac{38}{6869}, -\frac{14}{6869}, -\frac{27}{6869}, \frac{25}{6869}, -\frac{53}{6869}, \frac{12}{6869}, \frac{24}{6869}, \frac{11}{6869}, -\frac{15}{6869})$ $+ \frac{11}{6869}\sqrt{30e^4} \otimes e_7 + \frac{1}{6869}\sqrt{2878e^6} \otimes e_8 + \frac{1}{6869}\sqrt{6170e^2} \otimes e_9$	{1679, 278}
93:31	$0, 0, 0, 0, 0, 0, \frac{5}{327}\sqrt{1770e^{12}}, \frac{5}{327}\sqrt{714e^{13}} + \frac{10}{327}\sqrt{159e^{24}},$ $\frac{10}{327}\sqrt{258e^{15}} + \frac{10}{109}\sqrt{33e^{36}}$	$(\frac{5}{109}, \frac{5}{109}, -\frac{20}{109}, -\frac{20}{109}, \frac{10}{109}, \frac{35}{109}, \frac{10}{109}, -\frac{15}{109}, \frac{15}{109})$ $+ \frac{10}{327}\sqrt{426e^6} \otimes e_7 + \frac{5}{327}\sqrt{1110e^2} \otimes e_4 + \frac{5}{327}\sqrt{966e^5} \otimes e_8$	{147, 2379}
93:31	$0, 0, 0, 0, 0, 0, \frac{2}{3233}\sqrt{45786e^{12}}, \frac{2}{3233}\sqrt{38883e^{13}} + \frac{6}{3233}\sqrt{2522e^{24}},$ $\frac{6}{3233}\sqrt{546e^{15}} + \frac{12}{3233}\sqrt{1482e^{36}}$	$(-\frac{44}{3233}, \frac{167}{3233}, -\frac{112}{3233}, -\frac{323}{3233}, \frac{133}{3233}, \frac{201}{3233}, \frac{123}{3233}, -\frac{156}{3233}, \frac{89}{3233})$ $+ \frac{208}{3233}\sqrt{6e^2} \otimes e_9 + \frac{2}{3233}\sqrt{51090e^6} \otimes e_7$	{123568, 134789, 278, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138e^{12}}, \frac{2}{43}\sqrt{39e^{13}} + \frac{2}{43}\sqrt{30e^{24}},$ $\frac{1}{43}\sqrt{138e^{15}} + \frac{2}{43}\sqrt{30e^{36}}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{1}{43}\sqrt{174e^5} \otimes e_7 + \frac{7}{43}\sqrt{6e^2} \otimes e_9$	{123568, 1245, 134789, 1679, 23467, 278, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138e^{12}}, \frac{2}{43}\sqrt{39e^{13}} + \frac{2}{43}\sqrt{30e^{24}},$ $\frac{1}{43}\sqrt{138e^{15}} + \frac{2}{43}\sqrt{30e^{36}}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $- \frac{1}{43}\sqrt{174e^5} \otimes e_7 + \frac{7}{43}\sqrt{6e^2} \otimes e_9$	{123568, 1245, 134789, 1679, 23467, 278, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{23}{2831}\sqrt{6e^{12}}, \frac{23}{2831}\sqrt{434e^{13}} + \frac{69}{2831}\sqrt{214e^{24}},$ $\frac{69}{2831}\sqrt{190e^{15}} + \frac{414}{2831}\sqrt{2e^{36}}$	$(-\frac{368}{2831}, \frac{644}{2831}, \frac{322}{2831}, -\frac{690}{2831}, \frac{483}{2831}, -\frac{207}{2831}, \frac{276}{2831}, -\frac{46}{2831}, \frac{115}{2831})$ $+ \frac{23}{2831}\sqrt{2130e^5} \otimes e_8 + \frac{23}{2831}\sqrt{2674e^2} \otimes e_9 + \frac{46}{2831}\sqrt{78e^3} \otimes e_6$	{134789, 359}
93:31	$0, 0, 0, 0, 0, 0, \frac{26}{545}\sqrt{103e^{12}}, \frac{39}{545}\sqrt{15e^{13}} + \frac{26}{545}\sqrt{33e^{24}},$ $\frac{13}{545}\sqrt{213e^{15}} + \frac{117}{545}\sqrt{3e^{36}}$	$(-\frac{247}{1090}, \frac{91}{545}, \frac{273}{1090}, -\frac{78}{545}, \frac{182}{545}, -\frac{78}{545}, -\frac{13}{218}, \frac{13}{545}, \frac{117}{1090})$ $+ \frac{104}{545}e^5 \otimes e_8 + \frac{13}{109}\sqrt{15e^2} \otimes e_4 + \frac{26}{545}\sqrt{141e^3} \otimes e_7$	{12359, 257}
93:31	$0, 0, 0, 0, 0, 0, \frac{19}{2495}\sqrt{930e^{12}}, \frac{304}{2495}\sqrt{3e^{13}} + \frac{38}{2495}\sqrt{598e^{24}},$ $\frac{456}{2495}\sqrt{2e^{15}} + \frac{19}{2495}\sqrt{1698e^{36}}$	$(\frac{266}{2495}, -\frac{494}{2495}, -\frac{228}{2495}, \frac{532}{2495}, -\frac{19}{2495}, \frac{399}{2495}, -\frac{228}{2495}, \frac{38}{2495}, \frac{171}{2495})$ $+ \frac{19}{2495}\sqrt{2022e^6} \otimes e_8 + \frac{19}{2495}\sqrt{2982e^4} \otimes e_9 + \frac{38}{2495}\sqrt{122e^1} \otimes e_5$	{2346, 478}
93:31	$0, 0, 0, 0, 0, 0, \frac{6}{1123}\sqrt{24171e^{12}}, \frac{1}{1123}\sqrt{877062e^{13}} + \frac{1}{1123}\sqrt{453494e^{24}},$ $\frac{1}{1123}\sqrt{448890e^{15}} + \frac{2}{1123}\sqrt{3453e^{36}}$	$(\frac{559}{1123}, -\frac{13}{1123}, -\frac{207}{1123}, \frac{365}{1123}, -\frac{592}{1123}, \frac{174}{1123}, \frac{546}{1123}, \frac{352}{1123}, -\frac{33}{1123})$ $+ \frac{1}{1123}\sqrt{2198410e^1} \otimes e_5$	{123, 12468, 1347, 1678, 234578, 2567, 358, 456}
93:31	$0, 0, 0, 0, 0, 0, \frac{12}{451}\sqrt{201e^{12}}, \frac{2}{451}\sqrt{18291e^{13}} + \frac{2}{451}\sqrt{7437e^{24}},$ $\frac{3}{451}\sqrt{2881e^{15}} + \frac{3}{451}\sqrt{1273e^{36}}$	$(\frac{70}{451}, \frac{34}{451}, \frac{70}{451}, \frac{106}{451}, -\frac{131}{451}, -\frac{131}{451}, \frac{104}{451}, \frac{140}{451}, -\frac{61}{451})$ $+ \frac{1}{451}\sqrt{76983e^3} \otimes e_6 + \frac{1}{451}\sqrt{91455e^1} \otimes e_5$	{123, 12468, 1347, 1678, 234578, 2567, 358, 456}
93:31	$0, 0, 0, 0, 0, 0, \frac{53}{6697}\sqrt{3482e^{12}}, \frac{53}{6697}\sqrt{178e^{13}} + \frac{212}{6697}\sqrt{55e^{24}},$ $\frac{12}{6697}\sqrt{47e^{15}} + \frac{53}{6697}\sqrt{30e^{36}}$	$(-\frac{1696}{6697}, \frac{1484}{6697}, \frac{1855}{6697}, -\frac{1325}{6697}, \frac{2597}{6697}, -\frac{954}{6697}, -\frac{212}{6697}, \frac{159}{6697}, \frac{901}{6697})$ $+ \frac{159}{6697}\sqrt{322e^3} \otimes e_6 + \frac{265}{6697}\sqrt{182e^2} \otimes e_4 + \frac{53}{6697}\sqrt{4926e^5} \otimes e_7$	{13479, 4569}
93:31	$0, 0, 0, 0, 0, 0, \frac{123}{4549}\sqrt{134e^{12}}, \frac{41}{4549}\sqrt{2478e^{13}} + \frac{82}{4549}\sqrt{319e^{24}},$ $\frac{246}{4549}\sqrt{46e^{15}} + \frac{82}{4549}\sqrt{285e^{36}}$	$(-\frac{1107}{4549}, \frac{861}{4549}, \frac{1148}{4549}, -\frac{820}{4549}, \frac{1722}{4549}, -\frac{533}{4549}, -\frac{246}{4549}, \frac{41}{4549}, \frac{615}{4549})$ $+ \frac{287}{4549}\sqrt{22e^2} \otimes e_4 + \frac{41}{4549}\sqrt{4386e^5} \otimes e_8 + \frac{82}{4549}\sqrt{730e^3} \otimes e_6$	{238, 3478}
93:31	$0, 0, 0, 0, 0, 0, \frac{25}{4919}\sqrt{770e^{12}}, \frac{100}{4919}\sqrt{71e^{13}} + \frac{50}{4919}\sqrt{874e^{24}},$ $\frac{100}{4919}\sqrt{127e^{15}} + \frac{25}{4919}\sqrt{2562e^{36}}$	$(\frac{350}{4919}, -\frac{950}{4919}, -\frac{300}{4919}, \frac{1000}{4919}, \frac{25}{4919}, \frac{675}{4919}, -\frac{600}{4919}, \frac{50}{4919}, \frac{375}{4919})$ $+ \frac{25}{4919}\sqrt{3086e^6} \otimes e_8 + \frac{25}{4919}\sqrt{4670e^4} \otimes e_9 + \frac{50}{4919}\sqrt{314e^5} \otimes e_7$	{123789, 478}
93:31	$0, 0, 0, 0, 0, 0, \frac{9}{1597}\sqrt{1290e^{12}}, \frac{270}{1597}e^{13} + \frac{54}{1597}\sqrt{109e^{24}},$ $\frac{18}{1597}\sqrt{429e^{15}} + \frac{9}{1597}\sqrt{2922e^{36}}$	$(\frac{224}{1597}, -\frac{294}{1597}, \frac{192}{1597}, \frac{326}{1597}, \frac{141}{1597}, \frac{275}{1597}, -\frac{70}{1597}, \frac{32}{1597}, \frac{83}{1597})$ $+ \frac{9}{1597}\sqrt{3702e^6} \otimes e_8 + \frac{9}{1597}\sqrt{5010e^4} \otimes e_9$	{123789, 169, 2346, 478}
93:31	$0, 0, 0, 0, 0, 0, \frac{1}{28}\sqrt{70e^{12}}, \frac{5}{56}\sqrt{14e^{13}} + \frac{1}{28}\sqrt{14e^{24}},$ $\frac{1}{14}\sqrt{21e^{15}} + \frac{1}{56}\sqrt{518e^{36}}$	$(-\frac{11}{112}, -\frac{1}{8}, \frac{3}{112}, \frac{3}{56}, \frac{17}{56}, \frac{5}{28}, -\frac{25}{112}, -\frac{1}{14}, \frac{23}{112})$ $+ \frac{1}{56}\sqrt{658e^6} \otimes e_8 + \frac{1}{56}\sqrt{770e^3} \otimes e_7$	{12346, 1478, 24679, 3489}
93:31	$0, 0, 0, 0, 0, 0, \frac{5}{1607}\sqrt{1510e^{12}}, \frac{5}{1607}\sqrt{1218e^{13}} + \frac{5}{1607}\sqrt{438e^{24}},$ $\frac{5}{1607}\sqrt{114e^{15}} + \frac{30}{1607}\sqrt{46e^{36}}$	$(\frac{40}{1607}, \frac{40}{1607}, -\frac{90}{1607}, -\frac{90}{1607}, -\frac{25}{1607}, \frac{105}{1607}, \frac{80}{1607}, -\frac{50}{1607}, \frac{15}{1607})$ $+ \frac{10}{1607}\sqrt{402e^6} \otimes e_7 + \frac{5}{1607}\sqrt{1770e^2} \otimes e_9 + \frac{5}{1607}\sqrt{422e^5} \otimes e_8$	{1345789, 2578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:31	$0, 0, 0, 0, 0, 0, \frac{72}{589}\sqrt{14}e^{12}, \frac{8}{589}\sqrt{742}e^{13} + \frac{8}{589}\sqrt{917}e^{24},$ $\frac{8}{589}\sqrt{546}e^{15} + \frac{8}{589}\sqrt{1113}e^{36}$	$(\frac{78}{589}, \frac{156}{589}, \frac{1}{31}, -\frac{59}{589}, -\frac{146}{589}, -\frac{87}{589}, \frac{234}{589}, \frac{97}{589}, -\frac{68}{589})$ $+ \frac{112}{589}\sqrt{5}e^1 \otimes e_5 + \frac{8}{589}\sqrt{2639}e^2 \otimes e_9$	{134789, 1679, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{8}{1039}\sqrt{1155}e^{12}, \frac{24}{1039}\sqrt{385}e^{13} + \frac{140}{1039}\sqrt{22}e^{24},$ $\frac{12}{1039}\sqrt{2310}e^{15} + \frac{16}{1039}\sqrt{1155}e^{36}$	$(\frac{253}{1039}, -\frac{181}{1039}, \frac{72}{1039}, \frac{506}{1039}, -\frac{307}{1039}, -\frac{126}{1039}, \frac{72}{1039}, \frac{325}{1039}, -\frac{54}{1039})$ $+ \frac{4}{1039}\sqrt{52710}e^4 \otimes e_9 + \frac{8}{1039}\sqrt{2590}e^1 \otimes e_5$	{123789, 169, 25689, 3579}
93:31	$0, 0, 0, 0, 0, 0, \frac{148}{581}\sqrt{2}e^{12}, \frac{8}{581}\sqrt{814}e^{13} + \frac{4}{581}\sqrt{7881}e^{24},$ $\frac{32}{581}\sqrt{37}e^{15} + \frac{8}{581}\sqrt{1221}e^{36}$	$(\frac{65}{581}, -\frac{67}{581}, \frac{132}{581}, \frac{264}{581}, -\frac{97}{581}, -\frac{164}{581}, -\frac{2}{581}, \frac{197}{581}, -\frac{32}{581})$ $+ \frac{36}{581}\sqrt{185}e^4 \otimes e_9 + \frac{8}{581}\sqrt{962}e^3 \otimes e_6$	{123789, 169, 25689, 3579}
93:31	$0, 0, 0, 0, 0, 0, \frac{4}{121}\sqrt{210}e^{12}, \frac{8}{121}\sqrt{77}e^{13} + \frac{12}{121}\sqrt{35}e^{24},$ $\frac{4}{121}\sqrt{210}e^{15} + \frac{12}{121}\sqrt{35}e^{36}$	$(\frac{2}{121}, \frac{46}{121}, \frac{17}{121}, -\frac{27}{121}, -\frac{12}{121}, -\frac{27}{121}, \frac{48}{121}, \frac{19}{121}, -\frac{10}{121})$ $+ \frac{4}{121}\sqrt{721}e^2 \otimes e_9$	{123568, 1245, 134789, 1679, 23467, 278, 359, 45689}
93:31	$0, 0, 0, 0, 0, 0, \frac{5}{377}\sqrt{78}e^{12}, \frac{2}{377}\sqrt{65}e^{13} + \frac{1}{377}\sqrt{1794}e^{24},$ $\frac{3}{377}\sqrt{26}e^{15} + \frac{2}{377}\sqrt{858}e^{36}$	$(-\frac{2}{29}, \frac{2}{29}, \frac{1}{29}, -\frac{3}{29}, \frac{3}{29}, 0, 0, -\frac{1}{29}, \frac{1}{29})$ $+ \frac{1}{377}\sqrt{2730}e^3 \otimes e_7 + \frac{2}{377}\sqrt{663}e^6 \otimes e_8 + \frac{2}{377}\sqrt{910}e^2 \otimes e_9$	{15679, 2578}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{235}\sqrt{678}e^{12}, \frac{2}{235}\sqrt{678}e^{14} + \frac{8}{235}\sqrt{6}e^{23},$ $\frac{4}{235}\sqrt{174}e^{15} + \frac{2}{235}\sqrt{930}e^{36}$	$(\frac{6}{47}, -\frac{32}{235}, \frac{22}{235}, -\frac{8}{47}, \frac{6}{235}, \frac{14}{235}, -\frac{2}{235}, -\frac{2}{47}, \frac{36}{235})$ $+ \frac{12}{47}e^3 \otimes e_7 + \frac{12}{47}e^6 \otimes e_8 + \frac{2}{235}\sqrt{822}e^1 \otimes e_5$	{178, 356}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{7}e^{12}, \frac{1}{35}\sqrt{14}e^{14} + \frac{1}{35}\sqrt{182}e^{23},$ $\frac{1}{35}\sqrt{182}e^{15} + \frac{1}{35}\sqrt{42}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{2}{35}\sqrt{7}e^4 \otimes e_7 + \frac{2}{5}e^2 \otimes e_9 + \frac{4}{35}\sqrt{14}e^5 \otimes e_8$	{12357, 134689}
93:32	$0, 0, 0, 0, 0, 0, \frac{12}{337}\sqrt{253}e^{12}, \frac{23}{337}\sqrt{66}e^{14} + \frac{1}{337}\sqrt{48070}e^{23},$ $\frac{1}{337}\sqrt{48070}e^{15} + \frac{7}{337}\sqrt{506}e^{36}$	$(-\frac{43}{337}, \frac{170}{337}, -\frac{89}{337}, \frac{124}{337}, -\frac{40}{337}, \frac{6}{337}, \frac{127}{337}, \frac{81}{337}, -\frac{83}{337})$ $+ \frac{2}{337}\sqrt{35673}e^2 \otimes e_9$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{8}\sqrt{6}e^{12}, \frac{1}{8}\sqrt{6}e^{14} + \frac{1}{4}e^{23}, \frac{1}{8}\sqrt{10}e^{15} + \frac{1}{4}e^{36}$	$(\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, -\frac{1}{8}, 0, \frac{1}{4})$ $+ \frac{1}{4}\sqrt{3}e^1 \otimes e_4 + \frac{1}{4}\sqrt{3}e^5 \otimes e_7 + \frac{1}{8}\sqrt{6}e^3 \otimes e_6$	{1235, 2347}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{995}\sqrt{5034}e^{12}, \frac{3}{995}\sqrt{68798}e^{14} + \frac{3}{995}\sqrt{31882}e^{23},$ $\frac{1}{995}\sqrt{179546}e^{15} + \frac{1}{995}\sqrt{592334}e^{36}$	$(-\frac{267}{995}, \frac{76}{995}, -\frac{21}{995}, \frac{626}{995}, \frac{54}{995}, -\frac{192}{995}, \frac{113}{995}, \frac{359}{995}, -\frac{213}{995})$ $+ \frac{2}{995}\sqrt{349863}e^4 \otimes e_9$	{123789, 12457, 13456, 1689, 23468, 2569, 3579, 478}
93:32	$0, 0, 0, 0, 0, 0, \frac{12}{175}\sqrt{10}e^{12}, \frac{4}{175}\sqrt{282}e^{14} + \frac{8}{175}\sqrt{133}e^{23},$ $\frac{4}{175}\sqrt{358}e^{15} + \frac{8}{175}e^{36}$	$(-\frac{4}{175}, \frac{32}{175}, \frac{16}{175}, \frac{52}{175}, -\frac{4}{25}, -\frac{48}{175}, \frac{4}{25}, \frac{48}{175}, -\frac{32}{175})$ $+ \frac{12}{175}\sqrt{58}e^3 \otimes e_6 + \frac{8}{175}\sqrt{186}e^2 \otimes e_9$	{1235, 124568, 2347, 2678}
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{3145}e^{14} + \frac{1}{121}\sqrt{1406}e^{23},$ $\frac{1}{121}\sqrt{2553}e^{15} + \frac{1}{121}\sqrt{2590}e^{36}$	$(-\frac{13}{121}, \frac{16}{121}, \frac{29}{121}, \frac{58}{121}, -\frac{3}{121}, \frac{45}{121}, \frac{3}{121}, \frac{45}{121}, -\frac{16}{121})$ $+ \frac{1}{121}\sqrt{6179}e^3 \otimes e_6 + \frac{2}{121}\sqrt{2405}e^4 \otimes e_9$	{126789, 1389, 2359, 5679}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{3181}\sqrt{204465}e^{12}, \frac{2}{3181}\sqrt{107715}e^{14} + \frac{2}{3181}\sqrt{139535}e^{23},$ $\frac{60}{3181}\sqrt{43}e^{15} + \frac{56}{3181}\sqrt{215}e^{36}$	$(-\frac{353}{3181}, \frac{174}{3181}, \frac{251}{3181}, \frac{778}{3181}, \frac{97}{3181}, -\frac{507}{3181}, -\frac{179}{3181}, \frac{425}{3181}, -\frac{256}{3181})$ $+ \frac{2}{3181}\sqrt{302505}e^3 \otimes e_7 + \frac{2}{3181}\sqrt{321855}e^2 \otimes e_9$	{12356, 1679, 278, 3589}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{175}\sqrt{330}e^{12}, \frac{11}{175}\sqrt{30}e^{14} + \frac{1}{35}\sqrt{22}e^{23},$ $\frac{1}{175}\sqrt{6490}e^{15} + \frac{1}{175}\sqrt{1870}e^{36}$	$(\frac{4}{35}, -\frac{8}{35}, \frac{1}{7}, -\frac{1}{5}, \frac{1}{5}, \frac{6}{35}, -\frac{4}{35}, -\frac{3}{35}, \frac{11}{35})$ $+ \frac{9}{175}\sqrt{110}e^1 \otimes e_4 + \frac{9}{175}\sqrt{110}e^5 \otimes e_7$	{1235, 179, 2347, 459}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{2}e^{12}, \frac{2}{15}\sqrt{3}e^{14} + \frac{2}{15}e^{23}, \frac{2}{15}e^{15} + \frac{1}{15}\sqrt{10}e^{36}$	$(0, \frac{2}{15}, -\frac{2}{15}, 0, -\frac{1}{15}, \frac{1}{15}, \frac{2}{15}, 0, -\frac{1}{15})$ $+ \frac{1}{15}\sqrt{10}e^4 \otimes e_9 + \frac{1}{15}\sqrt{10}e^6 \otimes e_8 + \frac{2}{15}\sqrt{2}e^1 \otimes e_5$	{13467, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{22}{2705}\sqrt{151}e^{12}, \frac{22}{2705}\sqrt{707}e^{14} + \frac{44}{2705}\sqrt{2}e^{23},$ $\frac{66}{2705}\sqrt{30}e^{15} + \frac{22}{2705}\sqrt{989}e^{36}$	$(-\frac{77}{541}, \frac{44}{2705}, -\frac{99}{2705}, \frac{66}{541}, \frac{473}{2705}, \frac{187}{2705}, -\frac{341}{2705}, -\frac{11}{541}, \frac{88}{2705})$ $+ \frac{22}{2705}\sqrt{695}e^3 \otimes e_7 + \frac{22}{2705}\sqrt{834}e^4 \otimes e_9 + \frac{22}{2705}\sqrt{973}e^6 \otimes e_8$	{12346, 24578}
93:32	$0, 0, 0, 0, 0, 0, \frac{14}{145}\sqrt{6}e^{12}, \frac{21}{145}\sqrt{2}e^{14} + \frac{7}{145}\sqrt{59}e^{23},$ $\frac{21}{145}\sqrt{2}e^{15} + \frac{7}{145}\sqrt{71}e^{36}$	$(-\frac{14}{145}, \frac{42}{145}, -\frac{49}{145}, \frac{7}{145}, \frac{7}{145}, \frac{42}{145}, \frac{28}{145}, -\frac{7}{145}, -\frac{7}{145})$ $+ \frac{21}{145}\sqrt{15}e^2 \otimes e_9 - \frac{7}{145}\sqrt{123}e^6 \otimes e_8$	{123456, 1258, 13789, 14679, 2367, 2478, 34589, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:32	$0, 0, 0, 0, 0, 0, \frac{14}{145}\sqrt{6}e^{12}, \frac{21}{145}\sqrt{2}e^{14} + \frac{7}{145}\sqrt{59}e^{23},$ $\frac{21}{145}\sqrt{2}e^{15} + \frac{7}{145}\sqrt{71}e^{36}$	$(-\frac{14}{145}, \frac{42}{145}, -\frac{49}{145}, \frac{7}{145}, \frac{7}{145}, \frac{42}{145}, \frac{28}{145}, -\frac{7}{145}, -\frac{7}{145})$ $+ \frac{21}{145}\sqrt{15}e^2 \otimes e_9 + \frac{7}{145}\sqrt{123}e^6 \otimes e_8$	{123456, 1258, 13789, 14679, 2367, 2478, 34589, 569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{275}\sqrt{6014}e^{12}, \frac{1}{275}\sqrt{291}e^{14} + \frac{1}{275}\sqrt{12319}e^{23},$ $\frac{8}{275}\sqrt{97}e^{15} + \frac{2}{275}\sqrt{4462}e^{36}$	$(\frac{28}{275}, -\frac{73}{550}, -\frac{9}{550}, -\frac{69}{275}, \frac{56}{275}, \frac{177}{550}, -\frac{17}{275}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{30361}e^6 \otimes e_7 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_4$	{12569, 13579, 2457, 3456}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{379}\sqrt{1463}e^{12}, \frac{7}{379}\sqrt{66}e^{14} + \frac{14}{379}\sqrt{22}e^{23},$ $\frac{14}{379}\sqrt{22}e^{15} + \frac{1}{379}\sqrt{22330}e^{36}$	$(-\frac{70}{379}, \frac{68}{379}, -\frac{84}{379}, \frac{54}{379}, \frac{61}{379}, \frac{75}{379}, -\frac{2}{379}, -\frac{16}{379}, -\frac{9}{379})$ $+ \frac{11}{379}\sqrt{238}e^6 \otimes e_7 + \frac{1}{379}\sqrt{24486}e^2 \otimes e_9$	{123468, 13579, 2457, 689}
93:32	$0, 0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{13}e^{14} + \frac{3}{65}\sqrt{46}e^{23},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{9}{65}\sqrt{2}e^{36}$	$(-\frac{9}{65}, -\frac{3}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{3}{65}, \frac{3}{65})$ $+ \frac{12}{65}\sqrt{2}e^3 \otimes e_6 + \frac{3}{65}\sqrt{29}e^4 \otimes e_9 - \frac{3}{65}\sqrt{61}e^5 \otimes e_8$	{123457, 1456, 2468, 3478}
93:32	$0, 0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{13}e^{14} + \frac{3}{65}\sqrt{46}e^{23},$ $\frac{9}{65}\sqrt{5}e^{15} + \frac{9}{65}\sqrt{2}e^{36}$	$(-\frac{9}{65}, -\frac{3}{65}, \frac{6}{65}, \frac{12}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{3}{65}, \frac{3}{65})$ $+ \frac{12}{65}\sqrt{2}e^3 \otimes e_6 + \frac{3}{65}\sqrt{29}e^4 \otimes e_9 + \frac{3}{65}\sqrt{61}e^5 \otimes e_8$	{123457, 1456, 2468, 3478}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1065}e^{12}, \frac{1}{59}\sqrt{1065}e^{14} + \frac{2}{59}\sqrt{994}e^{23},$ $\frac{1}{59}\sqrt{1633}e^{15} + \frac{2}{59}\sqrt{355}e^{36}$	$(\frac{13}{59}, -\frac{11}{59}, \frac{41}{59}, \frac{17}{59}, -\frac{2}{59}, -\frac{30}{59}, \frac{2}{59}, \frac{30}{59}, \frac{11}{59})$ $+ \frac{3}{59}\sqrt{781}e^3 \otimes e_6$	{12357, 1245678, 13458, 156, 234, 268, 378, 467}
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{21}e^{14} + \frac{1}{28}\sqrt{70}e^{23},$ $\frac{1}{8}\sqrt{10}e^{15} + \frac{1}{28}\sqrt{14}e^{36}$	$(\frac{17}{112}, \frac{5}{28}, -\frac{1}{8}, -\frac{11}{112}, -\frac{11}{112}, -\frac{25}{112}, \frac{3}{56}, \frac{37}{112}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{798}e^2 \otimes e_9 + \frac{3}{56}\sqrt{70}e^1 \otimes e_4$	{12356, 1679, 23467, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{8}{139}\sqrt{35}e^{12}, \frac{21}{139}\sqrt{5}e^{14} + \frac{1}{139}\sqrt{2030}e^{23},$ $\frac{9}{139}\sqrt{133}e^{15} + \frac{1}{139}\sqrt{210}e^{36}$	$(-\frac{35}{139}, \frac{15}{139}, -\frac{14}{139}, \frac{36}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^4 \otimes e_9 - \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{123457, 12789, 13689, 1456, 23569, 2468, 3478, 579}
93:32	$0, 0, 0, 0, 0, 0, \frac{8}{139}\sqrt{35}e^{12}, \frac{21}{139}\sqrt{5}e^{14} + \frac{1}{139}\sqrt{2030}e^{23},$ $\frac{9}{139}\sqrt{133}e^{15} + \frac{1}{139}\sqrt{210}e^{36}$	$(-\frac{35}{139}, \frac{15}{139}, -\frac{14}{139}, \frac{36}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{3885}e^4 \otimes e_9 + \frac{1}{139}\sqrt{5005}e^5 \otimes e_8$	{123457, 12789, 13689, 1456, 23569, 2468, 3478, 579}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{30}e^{12}, \frac{1}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{58}e^{15} + \frac{2}{25}e^{36}$	$(-\frac{4}{25}, \frac{2}{25}, \frac{1}{25}, \frac{7}{25}, \frac{2}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{42}e^3 \otimes e_6 - \frac{2}{25}\sqrt{15}e^5 \otimes e_7 + \frac{2}{25}\sqrt{21}e^2 \otimes e_9$	{1235, 124568, 2347, 2678}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{30}e^{12}, \frac{1}{25}\sqrt{42}e^{14} + \frac{2}{25}\sqrt{13}e^{23},$ $\frac{1}{25}\sqrt{58}e^{15} + \frac{2}{25}e^{36}$	$(-\frac{4}{25}, \frac{2}{25}, \frac{1}{25}, \frac{7}{25}, \frac{2}{25}, -\frac{3}{25}, -\frac{2}{25}, \frac{3}{25}, -\frac{2}{25})$ $+ \frac{1}{25}\sqrt{42}e^3 \otimes e_6 + \frac{2}{25}\sqrt{15}e^5 \otimes e_7 + \frac{2}{25}\sqrt{21}e^2 \otimes e_9$	{1235, 124568, 2347, 2678}
93:32	$0, 0, 0, 0, 0, 0, \frac{14}{923}\sqrt{381}e^{12}, \frac{14}{923}\sqrt{381}e^{14} + \frac{14}{923}\sqrt{254}e^{23},$ $\frac{12}{923}\sqrt{635}e^{15} + \frac{1}{923}\sqrt{42545}e^{36}$	$(-\frac{25}{923}, -\frac{12}{71}, \frac{73}{923}, -\frac{58}{923}, \frac{269}{923}, \frac{171}{923}, -\frac{181}{923}, -\frac{83}{923}, \frac{244}{923})$ $+ \frac{2}{923}\sqrt{52959}e^3 \otimes e_7 + \frac{2}{923}\sqrt{52959}e^6 \otimes e_8$	{12346, 145679, 24578, 3489}
93:32	$0, 0, 0, 0, 0, 0, \frac{72}{1153}\sqrt{21}e^{12}, \frac{72}{1153}\sqrt{35}e^{14} + \frac{9}{1153}\sqrt{1498}e^{23},$ $\frac{9}{1153}\sqrt{3290}e^{15} + \frac{72}{1153}\sqrt{42}e^{36}$	$(-\frac{364}{1153}, \frac{138}{1153}, \frac{42}{1153}, \frac{544}{1153}, \frac{341}{1153}, -\frac{65}{1153}, -\frac{226}{1153}, \frac{180}{1153}, -\frac{23}{1153})$ $+ \frac{9}{1153}\sqrt{6286}e^5 \otimes e_7 + \frac{9}{1153}\sqrt{8078}e^4 \otimes e_9$	{1245, 16789, 234678, 359}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{971}\sqrt{136095}e^{12}, \frac{7}{971}\sqrt{6330}e^{14} + \frac{1}{971}\sqrt{78070}e^{23},$ $\frac{1}{971}\sqrt{647770}e^{15} + \frac{1}{971}\sqrt{128710}e^{36}$	$(\frac{553}{971}, -\frac{134}{971}, \frac{185}{971}, -\frac{502}{971}, -\frac{146}{971}, \frac{222}{971}, \frac{419}{971}, \frac{51}{971}, \frac{407}{971})$ $+ \frac{30}{971}\sqrt{211}e^1 \otimes e_4$	{1235, 12369, 1567, 179, 2345679, 2347, 459, 46}
93:32	$0, 0, 0, 0, 0, 0, \frac{8}{1351}\sqrt{1406}e^{12}, \frac{8}{1351}\sqrt{969}e^{14} + \frac{24}{1351}\sqrt{1007}e^{23},$ $\frac{8}{1351}\sqrt{6042}e^{15} + \frac{152}{1351}\sqrt{3}e^{36}$	$(-\frac{148}{1351}, -\frac{256}{1351}, \frac{204}{1351}, \frac{96}{1351}, \frac{556}{1351}, \frac{204}{1351}, -\frac{404}{1351}, -\frac{52}{1351}, \frac{408}{1351})$ $+ \frac{24}{1351}\sqrt{1007}e^3 \otimes e_7 + \frac{8}{1351}\sqrt{13813}e^5 \otimes e_8$	{12789, 13689, 23569, 579}
93:32	$0, 0, 0, 0, 0, 0, \frac{21}{305}\sqrt{6}e^{12}, \frac{6}{305}\sqrt{413}e^{14} + \frac{42}{305}e^{23},$ $\frac{42}{305}e^{15} + \frac{3}{305}\sqrt{1554}e^{36}$	$(-\frac{56}{305}, \frac{62}{305}, -\frac{14}{61}, \frac{48}{305}, \frac{41}{305}, \frac{11}{61}, \frac{6}{305}, -\frac{8}{305}, -\frac{3}{61})$ $+ \frac{3}{305}\sqrt{1946}e^4 \otimes e_9 + \frac{3}{305}\sqrt{1946}e^6 \otimes e_8$	{1235789, 1346, 269, 4578}
93:32	$0, 0, 0, 0, 0, 0, \frac{7}{367}\sqrt{70}e^{12}, \frac{21}{367}\sqrt{6}e^{14} + \frac{14}{367}\sqrt{93}e^{23},$ $\frac{7}{367}\sqrt{390}e^{15} + \frac{21}{367}\sqrt{10}e^{36}$	$(\frac{35}{367}, -\frac{161}{734}, \frac{105}{734}, -\frac{63}{367}, \frac{70}{367}, \frac{105}{734}, -\frac{91}{734}, -\frac{28}{367}, \frac{105}{367})$ $+ \frac{14}{367}\sqrt{93}e^3 \otimes e_7 + \frac{35}{367}\sqrt{22}e^5 \otimes e_8 + \frac{7}{367}\sqrt{426}e^1 \otimes e_4$	{1235, 1567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{15}e^{12}, \frac{4}{53}\sqrt{35}e^{14} + \frac{12}{53}\sqrt{6}e^{23},$ $\frac{4}{53}\sqrt{57}e^{15} + \frac{4}{53}\sqrt{30}e^{36}$	$(\frac{21}{53}, -\frac{12}{53}, \frac{22}{53}, -\frac{11}{53}, -\frac{9}{53}, -\frac{10}{53}, \frac{9}{53}, \frac{10}{53}, \frac{12}{53})$ $+ \frac{40}{53}e^1 \otimes e_4 + \frac{4}{53}\sqrt{91}e^3 \otimes e_6$	{1235, 1567, 2347, 46}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{53}\sqrt{15}e^{12}, \frac{4}{53}\sqrt{35}e^{14} + \frac{12}{53}\sqrt{6}e^{23},$ $\frac{4}{53}\sqrt{57}e^{15} + \frac{4}{53}\sqrt{30}e^{36}$	$(-\frac{4}{53}, -\frac{12}{53}, \frac{22}{53}, \frac{14}{53}, \frac{16}{53}, -\frac{10}{53}, -\frac{16}{53}, \frac{10}{53}, \frac{12}{53})$ $+ \frac{40}{53}e^5 \otimes e_7 + \frac{4}{53}\sqrt{91}e^3 \otimes e_6$	{1235, 124568, 2347, 2678}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{65}\sqrt{462}e^{12}, \frac{2}{65}\sqrt{273}e^{14} + \frac{1}{65}\sqrt{714}e^{23},$ $\frac{7}{65}\sqrt{6}e^{15} + \frac{2}{65}\sqrt{210}e^{36}$	$(\frac{1}{13}, \frac{12}{65}, \frac{3}{65}, \frac{2}{13}, -\frac{16}{65}, -\frac{14}{65}, \frac{17}{65}, \frac{3}{13}, -\frac{11}{65})$ $+ \frac{1}{65}\sqrt{1218}e^1 \otimes e_5 + \frac{6}{65}\sqrt{35}e^4 \otimes e_9$	{124, 13467, 2345678, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{1605}\sqrt{61}e^{12}, \frac{1}{1605}\sqrt{1342}e^{14} + \frac{1}{535}\sqrt{86}e^{23},$ $\frac{1}{1605}\sqrt{1018}e^{15} + \frac{1}{1605}\sqrt{894}e^{36}$	$(\frac{3}{535}, -\frac{22}{1605}, \frac{19}{1605}, -\frac{4}{535}, \frac{8}{1605}, -\frac{2}{1605}, -\frac{13}{1605}, -\frac{1}{535}, \frac{17}{1605})$ $+ \frac{2}{1605}\sqrt{183}e^6 \otimes e_8 + \frac{2}{1605}\sqrt{290}e^1 \otimes e_5 + \frac{2}{1605}\sqrt{290}e^4 \otimes e_7$	{178, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{273}e^{12}, \frac{1}{65}\sqrt{462}e^{14} + \frac{7}{65}\sqrt{6}e^{23},$ $\frac{1}{65}\sqrt{714}e^{15} + \frac{2}{65}\sqrt{210}e^{36}$	$(\frac{3}{13}, -\frac{1}{5}, \frac{23}{65}, -\frac{1}{13}, -\frac{6}{65}, -\frac{14}{65}, \frac{2}{65}, \frac{2}{13}, \frac{9}{65})$ $+ \frac{1}{65}\sqrt{1218}e^1 \otimes e_5 + \frac{6}{65}\sqrt{35}e^3 \otimes e_7$	{12368, 178, 257, 356}
93:32	$0, 0, 0, 0, 0, 0, \frac{16}{1615}\sqrt{202}e^{12}, \frac{16}{1615}\sqrt{165}e^{14} + \frac{48}{1615}\sqrt{53}e^{23},$ $\frac{16}{1615}\sqrt{318}e^{15} + \frac{112}{1615}\sqrt{3}e^{36}$	$(-\frac{232}{1615}, \frac{16}{323}, -\frac{24}{1615}, \frac{288}{1615}, \frac{184}{1615}, -\frac{24}{1615}, -\frac{8}{85}, \frac{56}{1615}, -\frac{48}{1615})$ $+ \frac{16}{1615}\sqrt{379}e^5 \otimes e_8 + \frac{32}{1615}\sqrt{159}e^2 \otimes e_9 + \frac{48}{1615}\sqrt{53}e^3 \otimes e_7$	{12356, 278}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{85}\sqrt{57}e^{12}, \frac{1}{85}\sqrt{66}e^{14} + \frac{2}{85}\sqrt{30}e^{23},$ $\frac{2}{85}\sqrt{30}e^{15} + \frac{3}{85}\sqrt{22}e^{36}$	$(\frac{2}{85}, \frac{4}{85}, -\frac{8}{85}, -\frac{6}{85}, -\frac{1}{85}, \frac{9}{85}, \frac{6}{85}, -\frac{4}{85}, \frac{1}{85})$ $+ \frac{1}{85}\sqrt{102}e^2 \otimes e_9 + \frac{1}{85}\sqrt{222}e^6 \otimes e_7 + \frac{2}{85}\sqrt{39}e^1 \otimes e_5$	{12368, 257}
93:32	$0, 0, 0, 0, 0, 0, \frac{80}{313}\sqrt{2}e^{12}, \frac{80}{313}\sqrt{2}e^{14} + \frac{16}{313}\sqrt{13}e^{23},$ $\frac{16}{313}\sqrt{13}e^{15} + \frac{16}{313}\sqrt{113}e^{36}$	$(-\frac{52}{313}, -\frac{2}{313}, \frac{74}{313}, \frac{124}{313}, \frac{48}{313}, -\frac{78}{313}, -\frac{54}{313}, \frac{72}{313}, -\frac{4}{313})$ $+ \frac{16}{313}\sqrt{139}e^3 \otimes e_7 + \frac{16}{313}\sqrt{139}e^4 \otimes e_9$	{123589, 156789, 2679, 39}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{14}e^{12}, \frac{1}{14}\sqrt{42}e^{14} + \frac{1}{14}\sqrt{42}e^{23},$ $\frac{1}{14}\sqrt{42}e^{15} + \frac{1}{14}\sqrt{21}e^{36}$	$(-\frac{1}{4}, -\frac{1}{28}, 0, \frac{3}{14}, \frac{13}{28}, \frac{3}{14}, -\frac{2}{7}, -\frac{1}{28}, \frac{3}{14})$ $+ \frac{2}{7}\sqrt{7}e^5 \otimes e_8 + \frac{3}{14}\sqrt{7}e^4 \otimes e_7$	{12789, 1456, 2468, 579}
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{10}\sqrt{2}e^{12}, \frac{3}{10}\sqrt{2}e^{14} + \frac{3}{10}\sqrt{6}e^{23},$ $\frac{3}{10}\sqrt{6}e^{15} + \frac{3}{10}\sqrt{5}e^{36}$	$(\frac{1}{2}, \frac{1}{20}, \frac{1}{5}, -\frac{1}{4}, -\frac{2}{5}, -\frac{1}{10}, \frac{11}{20}, \frac{1}{4}, \frac{1}{10})$ $+ \frac{3}{10}\sqrt{17}e^1 \otimes e_5$	{12368, 124, 13467, 178, 2345678, 257, 356, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{2591}\sqrt{119370}e^{12}, \frac{8}{2591}\sqrt{10281}e^{14} + \frac{36}{2591}\sqrt{322}e^{23},$ $\frac{12}{2591}\sqrt{1610}e^{15} + \frac{24}{2591}\sqrt{1610}e^{36}$	$(\frac{630}{2591}, -\frac{789}{2591}, \frac{945}{2591}, -\frac{474}{2591}, \frac{160}{2591}, -\frac{155}{2591}, -\frac{159}{2591}, \frac{156}{2591}, \frac{790}{2591})$ $+ \frac{4}{2591}\sqrt{143106}e^1 \otimes e_4 + \frac{4}{2591}\sqrt{177882}e^3 \otimes e_7$	{12356, 1239, 157, 1679}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{6305}e^{12}, \frac{1}{275}\sqrt{291}e^{14} + \frac{1}{275}\sqrt{18042}e^{23},$ $\frac{1}{275}\sqrt{24153}e^{15} + \frac{1}{275}\sqrt{12513}e^{36}$	$(\frac{28}{275}, -\frac{73}{550}, -\frac{9}{550}, -\frac{69}{275}, \frac{56}{275}, \frac{177}{275}, -\frac{17}{550}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{30361}e^5 \otimes e_8 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_4$	{12357, 156, 234569, 4579}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{427}e^{12}, \frac{1}{72}\sqrt{427}e^{14} + \frac{5}{72}\sqrt{14}e^{23},$ $\frac{5}{72}\sqrt{14}e^{15} + \frac{1}{12}\sqrt{7}e^{36}$	$(\frac{1}{36}, -\frac{1}{48}, \frac{11}{72}, \frac{5}{48}, -\frac{5}{72}, -\frac{7}{36}, \frac{1}{144}, \frac{19}{144}, -\frac{1}{24})$ $+ \frac{1}{36}\sqrt{119}e^1 \otimes e_5 + \frac{1}{36}\sqrt{119}e^4 \otimes e_7$	{124, 178, 257, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{16745}e^{12}, \frac{1}{313}\sqrt{13002}e^{14} + \frac{1}{313}\sqrt{45310}e^{23},$ $\frac{1}{313}\sqrt{45310}e^{15} + \frac{1}{313}\sqrt{71314}e^{36}$	$(-\frac{49}{313}, -\frac{16}{313}, -\frac{27}{313}, \frac{6}{313}, \frac{154}{313}, \frac{132}{313}, -\frac{65}{313}, -\frac{43}{313}, \frac{105}{313})$ $+ \frac{2}{313}\sqrt{26989}e^6 \otimes e_7$	{12368, 124569, 134579, 178, 234789, 257, 356, 4689}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{971}\sqrt{136095}e^{12}, \frac{7}{971}\sqrt{6330}e^{14} + \frac{1}{971}\sqrt{78070}e^{23},$ $\frac{1}{971}\sqrt{647770}e^{15} + \frac{1}{971}\sqrt{128710}e^{36}$	$(-\frac{257}{971}, -\frac{134}{971}, \frac{185}{971}, \frac{308}{971}, \frac{664}{971}, \frac{222}{971}, -\frac{391}{971}, \frac{51}{971}, \frac{407}{971})$ $+ \frac{90}{971}\sqrt{211}e^5 \otimes e_7$	{1235, 124568, 1346789, 179, 2347, 2678, 35689, 459}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{15}e^{12}, \frac{1}{25}e^{14} + \frac{1}{25}\sqrt{30}e^{23},$ $\frac{1}{25}\sqrt{105}e^{15} + \frac{1}{25}\sqrt{30}e^{36}$	$(-\frac{1}{5}, 0, \frac{1}{5}, \frac{2}{5}, \frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, 0)$ $+ \frac{1}{25}\sqrt{115}e^3 \otimes e_6 + \frac{4}{25}\sqrt{10}e^5 \otimes e_7 + \frac{6}{25}\sqrt{5}e^4 \otimes e_9$	{13789, 569}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{65}\sqrt{462}e^{12}, \frac{2}{65}\sqrt{273}e^{14} + \frac{7}{65}\sqrt{6}e^{23},$ $\frac{1}{65}\sqrt{714}e^{15} + \frac{2}{65}\sqrt{210}e^{36}$	$(\frac{3}{13}, \frac{2}{65}, -\frac{7}{65}, -\frac{4}{13}, -\frac{6}{65}, \frac{16}{65}, \frac{17}{65}, -\frac{1}{13}, \frac{9}{65})$ $+ \frac{1}{65}\sqrt{1218}e^1 \otimes e_5 + \frac{6}{65}\sqrt{35}e^6 \otimes e_8$	{13467, 178, 356, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23}, \frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(\frac{3}{35}, \frac{6}{35}, -\frac{1}{5}, -\frac{4}{35}, -\frac{4}{35}, \frac{6}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35}) + \frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{35}e^1 \otimes e_4$	{12356, 1679, 23467, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23}, \frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(\frac{3}{35}, \frac{6}{35}, -\frac{1}{5}, -\frac{4}{35}, -\frac{4}{35}, \frac{6}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35}) + \frac{1}{35}\sqrt{210}e^2 \otimes e_9 - \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{35}e^1 \otimes e_4$	{12356, 1679, 23467, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{19}{181}\sqrt{11}e^{12}, \frac{1}{181}\sqrt{57}e^{14} + \frac{1}{181}\sqrt{7258}e^{23}, \frac{1}{181}\sqrt{5567}e^{15} + \frac{1}{181}\sqrt{3990}e^{36}$	$(-\frac{9}{181}, -\frac{32}{181}, \frac{35}{181}, \frac{12}{181}, \frac{41}{181}, -\frac{3}{181}, -\frac{41}{181}, \frac{3}{181}, \frac{32}{181}) + \frac{1}{181}\sqrt{5073}e^3 \otimes e_6 + \frac{2}{181}\sqrt{1957}e^5 \otimes e_8$	{12357, 156, 268, 378}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{330}e^{12}, \frac{1}{119}\sqrt{638}e^{14} + \frac{3}{119}\sqrt{110}e^{23}, \frac{3}{119}\sqrt{110}e^{15} + \frac{1}{119}\sqrt{1166}e^{36}$	$(\frac{13}{119}, -\frac{8}{119}, -\frac{1}{119}, -\frac{22}{119}, \frac{2}{119}, \frac{16}{119}, \frac{5}{119}, -\frac{9}{119}, \frac{15}{119}) + \frac{10}{119}\sqrt{11}e^1 \otimes e_5 + \frac{2}{119}\sqrt{341}e^6 \otimes e_7$	{12368, 178, 257, 356}
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{995}\sqrt{68798}e^{12}, \frac{4}{995}\sqrt{5034}e^{14} + \frac{1}{995}\sqrt{179546}e^{23}, \frac{3}{995}\sqrt{31882}e^{15} + \frac{1}{995}\sqrt{592334}e^{36}$	$(\frac{11}{995}, -\frac{63}{199}, \frac{107}{995}, \frac{209}{995}, \frac{332}{995}, -\frac{192}{995}, -\frac{304}{995}, \frac{44}{199}, \frac{343}{995}) + \frac{2}{995}\sqrt{349863}e^3 \otimes e_7$	{12359, 1236, 15679, 17, 2578, 26789, 3568, 389}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{995}\sqrt{5034}e^{12}, \frac{3}{995}\sqrt{68798}e^{14} + \frac{1}{995}\sqrt{179546}e^{23}, \frac{3}{995}\sqrt{31882}e^{15} + \frac{1}{995}\sqrt{592334}e^{36}$	$(\frac{11}{995}, \frac{102}{995}, -\frac{299}{995}, -\frac{208}{995}, \frac{332}{995}, \frac{642}{995}, \frac{113}{995}, -\frac{197}{995}, \frac{343}{995}) + \frac{2}{995}\sqrt{349863}e^6 \otimes e_8$	{123467, 1278, 13589, 14569, 2356, 2458, 34789, 679}
93:32	$0, 0, 0, 0, 0, 0, \frac{31}{4069}\sqrt{1570}e^{12}, \frac{217}{4069}\sqrt{14}e^{14} + \frac{124}{4069}\sqrt{47}e^{23}, \frac{62}{4069}\sqrt{210}e^{15} + \frac{310}{4069}\sqrt{23}e^{36}$	$(\frac{310}{4069}, -\frac{62}{313}, \frac{465}{4069}, -\frac{651}{4069}, \frac{775}{4069}, \frac{620}{4069}, -\frac{496}{4069}, -\frac{341}{4069}, \frac{1085}{4069}) + \frac{31}{4069}\sqrt{1326}e^1 \otimes e_4 + \frac{31}{4069}\sqrt{2830}e^6 \otimes e_8 + \frac{62}{4069}\sqrt{818}e^3 \otimes e_7$	{24578, 3489}
93:32	$0, 0, 0, 0, 0, 0, \frac{7}{379}\sqrt{110}e^{12}, \frac{7}{379}\sqrt{66}e^{14} + \frac{1}{379}\sqrt{24486}e^{23}, \frac{1}{379}\sqrt{24486}e^{15} + \frac{14}{379}\sqrt{33}e^{36}$	$(-\frac{70}{379}, \frac{68}{379}, -\frac{84}{379}, \frac{54}{379}, \frac{61}{379}, \frac{75}{379}, -\frac{2}{379}, -\frac{16}{379}, -\frac{9}{379}) + \frac{11}{379}\sqrt{238}e^5 \otimes e_8 + \frac{1}{379}\sqrt{24486}e^2 \otimes e_9$	{12357, 134689, 268, 4579}
93:32	$0, 0, 0, 0, 0, 0, \frac{36}{167}e^{12}, \frac{6}{167}\sqrt{59}e^{14} + \frac{6}{167}\sqrt{58}e^{23}, \frac{6}{167}\sqrt{77}e^{15} + \frac{6}{167}\sqrt{22}e^{36}$	$(-\frac{36}{167}, \frac{3}{167}, \frac{3}{167}, \frac{42}{167}, \frac{42}{167}, \frac{3}{167}, -\frac{33}{167}, \frac{6}{167}, \frac{6}{167}) + \frac{6}{167}\sqrt{115}e^4 \otimes e_9 + \frac{6}{167}\sqrt{133}e^5 \otimes e_8 + \frac{6}{167}\sqrt{58}e^3 \otimes e_7$	{126789, 1389, 2359, 5679}
93:32	$0, 0, 0, 0, 0, 0, \frac{36}{167}e^{12}, \frac{6}{167}\sqrt{59}e^{14} + \frac{6}{167}\sqrt{58}e^{23}, \frac{6}{167}\sqrt{77}e^{15} + \frac{6}{167}\sqrt{22}e^{36}$	$(-\frac{36}{167}, \frac{3}{167}, \frac{3}{167}, \frac{42}{167}, \frac{42}{167}, \frac{3}{167}, -\frac{33}{167}, \frac{6}{167}, \frac{6}{167}) + \frac{6}{167}\sqrt{115}e^4 \otimes e_9 - \frac{6}{167}\sqrt{133}e^5 \otimes e_8 + \frac{6}{167}\sqrt{58}e^3 \otimes e_7$	{126789, 1389, 2359, 5679}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{2}e^{14} + \frac{1}{35}\sqrt{14}e^{23}, \frac{1}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(\frac{3}{35}, \frac{6}{35}, -\frac{1}{5}, -\frac{4}{35}, -\frac{4}{35}, \frac{6}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35}) + \frac{2}{35}\sqrt{35}e^1 \otimes e_5 + \frac{2}{35}\sqrt{35}e^2 \otimes e_9 - \frac{2}{35}\sqrt{42}e^6 \otimes e_8$	{12346, 128, 23567, 24578}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{2}e^{14} + \frac{1}{35}\sqrt{14}e^{23}, \frac{1}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(\frac{3}{35}, \frac{6}{35}, -\frac{1}{5}, -\frac{4}{35}, -\frac{4}{35}, \frac{6}{35}, \frac{9}{35}, -\frac{1}{35}, -\frac{1}{35}) + \frac{2}{35}\sqrt{35}e^1 \otimes e_5 + \frac{2}{35}\sqrt{35}e^2 \otimes e_9 + \frac{2}{35}\sqrt{42}e^6 \otimes e_8$	{12346, 128, 23567, 24578}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{5}{79}\sqrt{14}e^{14} + \frac{1}{79}\sqrt{70}e^{23}, \frac{1}{79}\sqrt{70}e^{15} + \frac{5}{79}\sqrt{42}e^{36}$	$(\frac{11}{79}, \frac{22}{79}, -\frac{7}{79}, \frac{4}{79}, -\frac{24}{79}, -\frac{6}{79}, \frac{33}{79}, \frac{15}{79}, -\frac{13}{79}) + \frac{2}{79}\sqrt{665}e^2 \otimes e_9 + \frac{8}{79}\sqrt{35}e^1 \otimes e_5$	{13789, 14679, 34589, 569}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{313}\sqrt{2561}e^{12}, \frac{1}{313}\sqrt{13002}e^{14} + \frac{1}{313}\sqrt{62646}e^{23}, \frac{1}{313}\sqrt{62646}e^{15} + \frac{1}{313}\sqrt{36642}e^{36}$	$(-\frac{49}{313}, -\frac{16}{313}, -\frac{27}{313}, \frac{6}{313}, \frac{154}{313}, \frac{132}{313}, -\frac{65}{313}, -\frac{43}{313}, \frac{105}{313}) + \frac{2}{313}\sqrt{26989}e^5 \otimes e_8$	{123457, 12789, 13689, 1456, 23569, 2468, 3478, 579}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{175}\sqrt{95}e^{12}, \frac{2}{175}\sqrt{57}e^{14} + \frac{2}{175}\sqrt{322}e^{23}, \frac{2}{175}\sqrt{263}e^{15} + \frac{2}{175}\sqrt{114}e^{36}$	$(-\frac{18}{175}, \frac{4}{175}, \frac{2}{175}, \frac{24}{175}, \frac{2}{175}, -\frac{6}{175}, -\frac{2}{175}, \frac{6}{175}, -\frac{4}{175}) + \frac{2}{175}\sqrt{177}e^3 \otimes e_6 + \frac{4}{175}\sqrt{51}e^2 \otimes e_9 + \frac{4}{175}\sqrt{70}e^5 \otimes e_8$	{12357, 268}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{65}\sqrt{462}e^{12}, \frac{2}{65}\sqrt{273}e^{14} + \frac{7}{65}\sqrt{6}e^{23}, \frac{1}{65}\sqrt{714}e^{15} + \frac{2}{65}\sqrt{210}e^{36}$	$(-\frac{14}{65}, \frac{2}{65}, -\frac{7}{65}, \frac{9}{65}, \frac{23}{65}, \frac{16}{65}, -\frac{12}{65}, -\frac{1}{13}, \frac{9}{65}) + \frac{1}{65}\sqrt{1218}e^4 \otimes e_7 + \frac{6}{65}\sqrt{35}e^6 \otimes e_8$	{124569, 178, 2679, 458}
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{21}e^{14} + \frac{1}{28}\sqrt{70}e^{23}, \frac{3}{8}\sqrt{10}e^{15} + \frac{1}{28}\sqrt{14}e^{36}$	$(-\frac{1}{4}, \frac{5}{28}, -\frac{1}{8}, \frac{17}{56}, \frac{5}{28}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14}) + \frac{1}{56}\sqrt{798}e^2 \otimes e_9 + \frac{3}{56}\sqrt{70}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:32	$0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{42}e^{12}, \frac{1}{14}\sqrt{21}e^{14} + \frac{1}{28}\sqrt{70}e^{23},$ $\frac{1}{8}\sqrt{10}e^{15} + \frac{1}{28}\sqrt{14}e^{36}$	$(-\frac{1}{4}, \frac{5}{28}, -\frac{1}{8}, \frac{17}{56}, \frac{5}{28}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14})$ $+\frac{1}{56}\sqrt{798}e^2 \otimes e_9 - \frac{3}{56}\sqrt{70}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{4389}e^{12}, \frac{1}{215}\sqrt{8778}e^{14} + \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{1}{215}\sqrt{1463}e^{15} + \frac{7}{215}\sqrt{209}e^{36}$	$(-\frac{28}{215}, -\frac{6}{215}, -\frac{28}{215}, -\frac{6}{215}, \frac{99}{215}, \frac{99}{215}, -\frac{34}{215}, -\frac{34}{215}, \frac{71}{215})$ $+\frac{1}{215}\sqrt{20615}e^5 \otimes e_7 + \frac{1}{215}\sqrt{29393}e^6 \otimes e_8$	{123456, 1258, 13789, 14679, 2367, 2478, 34589, 569}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{4389}e^{12}, \frac{1}{215}\sqrt{8778}e^{14} + \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{1}{215}\sqrt{1463}e^{15} + \frac{7}{215}\sqrt{209}e^{36}$	$(-\frac{28}{215}, -\frac{6}{215}, -\frac{28}{215}, -\frac{6}{215}, \frac{99}{215}, \frac{99}{215}, -\frac{34}{215}, -\frac{34}{215}, \frac{71}{215})$ $+\frac{1}{215}\sqrt{20615}e^5 \otimes e_7 - \frac{1}{215}\sqrt{29393}e^6 \otimes e_8$	{123456, 1258, 13789, 14679, 2367, 2478, 34589, 569}
93:32	$0, 0, 0, 0, 0, 0, \frac{38}{4925}\sqrt{55}e^{12}, \frac{19}{4925}\sqrt{1074}e^{14} + \frac{171}{4925}\sqrt{38}e^{23},$ $\frac{19}{4925}\sqrt{3882}e^{15} + \frac{19}{4925}\sqrt{942}e^{36}$	$(\frac{19}{4925}, \frac{418}{4925}, -\frac{741}{4925}, -\frac{342}{4925}, \frac{38}{4925}, \frac{798}{4925}, \frac{437}{4925}, -\frac{323}{4925}, \frac{57}{4925})$ $+\frac{114}{4925}\sqrt{67}e^1 \otimes e_4 + \frac{38}{4925}\sqrt{826}e^5 \otimes e_8 + \frac{38}{4925}\sqrt{870}e^2 \otimes e_9$	{1235, 459}
93:32	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{12}, \frac{5}{79}\sqrt{14}e^{14} + \frac{1}{79}\sqrt{70}e^{23},$ $\frac{1}{79}\sqrt{70}e^{15} + \frac{9}{79}\sqrt{42}e^{36}$	$(-\frac{21}{79}, \frac{22}{79}, -\frac{7}{79}, \frac{36}{79}, \frac{8}{79}, -\frac{6}{79}, \frac{1}{79}, \frac{15}{79}, -\frac{13}{79})$ $+\frac{2}{79}\sqrt{665}e^2 \otimes e_9 + \frac{8}{79}\sqrt{35}e^4 \otimes e_7$	{123456, 13789, 2367, 34589}
93:32	$0, 0, 0, 0, 0, 0, \frac{38}{4925}\sqrt{881}e^{12}, \frac{19}{4925}\sqrt{1074}e^{14} + \frac{19}{4925}\sqrt{226}e^{23},$ $\frac{323}{4925}\sqrt{2}e^{15} + \frac{19}{4925}\sqrt{2362}e^{36}$	$(\frac{19}{4925}, \frac{418}{4925}, -\frac{741}{4925}, -\frac{342}{4925}, \frac{38}{4925}, \frac{798}{4925}, \frac{437}{4925}, -\frac{323}{4925}, \frac{57}{4925})$ $+\frac{114}{4925}\sqrt{67}e^1 \otimes e_4 + \frac{38}{4925}\sqrt{826}e^6 \otimes e_7 + \frac{38}{4925}\sqrt{870}e^2 \otimes e_9$	{1379, 247}
93:32	$0, 0, 0, 0, 0, 0, \frac{6}{425}\sqrt{30}e^{12}, \frac{1}{425}\sqrt{930}e^{14} + \frac{1}{85}\sqrt{22}e^{23},$ $\frac{1}{425}\sqrt{1390}e^{15} + \frac{1}{425}\sqrt{70}e^{36}$	$(-\frac{1}{85}, \frac{2}{85}, -\frac{1}{17}, -\frac{2}{85}, \frac{2}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{3}{85}, \frac{1}{85})$ $+\frac{2}{85}\sqrt{15}e^2 \otimes e_9 + \frac{6}{425}\sqrt{35}e^1 \otimes e_4 - \frac{6}{425}\sqrt{35}e^5 \otimes e_7$	{1235, 179, 2347, 459}
93:32	$0, 0, 0, 0, 0, 0, \frac{6}{425}\sqrt{30}e^{12}, \frac{1}{425}\sqrt{930}e^{14} + \frac{1}{85}\sqrt{22}e^{23},$ $\frac{1}{425}\sqrt{1390}e^{15} + \frac{1}{425}\sqrt{70}e^{36}$	$(-\frac{1}{85}, \frac{2}{85}, -\frac{1}{17}, -\frac{2}{85}, \frac{2}{85}, \frac{6}{85}, \frac{1}{85}, -\frac{3}{85}, \frac{1}{85})$ $+\frac{2}{85}\sqrt{15}e^2 \otimes e_9 + \frac{6}{425}\sqrt{35}e^1 \otimes e_4 + \frac{6}{425}\sqrt{35}e^5 \otimes e_7$	{1235, 179, 2347, 459}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{95}e^{12}, \frac{1}{25}\sqrt{15}e^{14} + \frac{4}{25}\sqrt{10}e^{23},$ $\frac{1}{5}\sqrt{5}e^{15} + \frac{3}{25}\sqrt{10}e^{36}$	$(0, -\frac{1}{5}, \frac{1}{5}, 0, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{1}{25}\sqrt{105}e^3 \otimes e_6 + \frac{1}{25}\sqrt{30}e^4 \otimes e_7 + \frac{4}{25}\sqrt{10}e^5 \otimes e_8$	{156, 268}
93:32	$0, 0, 0, 0, 0, 0, \frac{1}{215}\sqrt{4389}e^{12}, \frac{1}{215}\sqrt{8778}e^{14} + \frac{1}{215}\sqrt{4389}e^{23},$ $\frac{1}{215}\sqrt{1463}e^{15} + \frac{7}{215}\sqrt{209}e^{36}$	$(\frac{99}{430}, -\frac{6}{215}, -\frac{28}{215}, -\frac{167}{430}, \frac{1}{10}, \frac{99}{215}, \frac{87}{430}, -\frac{34}{215}, \frac{71}{215})$ $+\frac{1}{215}\sqrt{20615}e^1 \otimes e_4 + \frac{1}{215}\sqrt{29393}e^6 \otimes e_8$	{1258, 13789, 2478, 34589}
93:32	$0, 0, 0, 0, 0, 0, \frac{14}{325}\sqrt{30}e^{12}, \frac{7}{325}\sqrt{26}e^{14} + \frac{7}{325}\sqrt{282}e^{23},$ $\frac{7}{325}\sqrt{258}e^{15} + \frac{14}{325}\sqrt{42}e^{36}$	$(\frac{21}{325}, -\frac{63}{325}, \frac{56}{325}, -\frac{28}{325}, \frac{42}{325}, \frac{7}{325}, -\frac{42}{325}, -\frac{7}{325}, \frac{63}{325})$ $+\frac{21}{325}\sqrt{34}e^5 \otimes e_8 + \frac{7}{325}\sqrt{118}e^1 \otimes e_4 + \frac{7}{325}\sqrt{190}e^3 \otimes e_6$	{12357, 156}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23},$ $\frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 - \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{35}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23},$ $\frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{35}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23},$ $\frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 - \frac{1}{5}\sqrt{2}e^6 \otimes e_8 - \frac{2}{35}\sqrt{35}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{2}{35}\sqrt{21}e^{23},$ $\frac{1}{5}\sqrt{2}e^{15} + \frac{2}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{1}{35}\sqrt{210}e^2 \otimes e_9 + \frac{1}{5}\sqrt{2}e^6 \otimes e_8 - \frac{2}{35}\sqrt{35}e^5 \otimes e_7$	{12356, 12458, 134789, 1679, 23467, 278, 3589, 4569}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{42}e^{15} + \frac{3}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{2}{35}\sqrt{35}e^2 \otimes e_9 + \frac{2}{35}\sqrt{35}e^4 \otimes e_7 + \frac{2}{35}\sqrt{42}e^6 \otimes e_8$	{12346, 135789, 23567, 3489}
93:32	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{12}, \frac{1}{35}\sqrt{42}e^{14} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{42}e^{15} + \frac{3}{35}\sqrt{14}e^{36}$	$(-\frac{1}{5}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+\frac{2}{35}\sqrt{35}e^2 \otimes e_9 + \frac{2}{35}\sqrt{35}e^4 \otimes e_7 - \frac{2}{35}\sqrt{42}e^6 \otimes e_8$	{12346, 135789, 23567, 3489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:32	$0, 0, 0, 0, 0, \frac{3}{5}\sqrt{2}e^{12}, \frac{3}{5}\sqrt{2}e^{14} + \frac{3}{10}\sqrt{6}e^{23},$ $\frac{3}{10}\sqrt{6}e^{15} + \frac{3}{10}\sqrt{5}e^{36}$	$(-\frac{7}{20}, \frac{1}{20}, \frac{1}{5}, \frac{3}{5}, \frac{9}{20}, -\frac{1}{10}, -\frac{3}{10}, \frac{1}{4}, \frac{1}{10})$ $+\frac{3}{10}\sqrt{17}e^4 \otimes e_7$	{124, 124569, 156789, 178, 257, 2679, 458, 4689}
93:32	$0, 0, 0, 0, 0, 0, \frac{70}{1441}\sqrt{6}e^{12}, \frac{21}{1441}\sqrt{6}e^{14} + \frac{7}{1441}\sqrt{509}e^{23},$ $\frac{21}{1441}\sqrt{6}e^{15} + \frac{7}{1441}\sqrt{809}e^{36}$	$(-\frac{140}{1441}, \frac{42}{1441}, -\frac{49}{1441}, \frac{133}{1441}, \frac{133}{1441}, \frac{42}{1441}, -\frac{98}{1441}, -\frac{7}{1441}, -\frac{7}{1441})$ $+\frac{21}{1441}\sqrt{109}e^2 \otimes e_9 - \frac{7}{1441}\sqrt{681}e^6 \otimes e_8 + \frac{84}{1441}\sqrt{7}e^3 \otimes e_7$	{1236, 15679, 2578, 389}
93:32	$0, 0, 0, 0, 0, 0, \frac{70}{1441}\sqrt{6}e^{12}, \frac{21}{1441}\sqrt{6}e^{14} + \frac{7}{1441}\sqrt{509}e^{23},$ $\frac{21}{1441}\sqrt{6}e^{15} + \frac{7}{1441}\sqrt{809}e^{36}$	$(-\frac{140}{1441}, \frac{42}{1441}, -\frac{49}{1441}, \frac{133}{1441}, \frac{133}{1441}, \frac{42}{1441}, -\frac{98}{1441}, -\frac{7}{1441}, -\frac{7}{1441})$ $+\frac{21}{1441}\sqrt{109}e^2 \otimes e_9 + \frac{7}{1441}\sqrt{681}e^6 \otimes e_8 + \frac{84}{1441}\sqrt{7}e^3 \otimes e_7$	{1236, 15679, 2578, 389}
93:33	$0, 0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{12}{187}\sqrt{142}e^{34},$ $\frac{24}{187}\sqrt{13}e^{13} + \frac{24}{187}\sqrt{26}e^{24} + \frac{12}{187}\sqrt{38}e^{56}$	$(\frac{90}{187}, \frac{12}{187}, -\frac{6}{17}, \frac{12}{187}, \frac{12}{187}, \frac{6}{11}, -\frac{54}{187}, \frac{24}{187})$ $+\frac{24}{187}\sqrt{78}e^1 \otimes e_8$	{134567, 1347, 1579, 3589, 4568, 48}
93:33	$0, 0, 0, 0, 0, 0, \frac{12}{383}\sqrt{133}e^{12}, \frac{12}{383}\sqrt{133}e^{34},$ $\frac{12}{383}\sqrt{26}e^{13} + \frac{12}{383}\sqrt{26}e^{24} + \frac{12}{383}\sqrt{29}e^{56}$	$(\frac{84}{383}, -\frac{72}{383}, -\frac{72}{383}, \frac{84}{383}, \frac{42}{383}, -\frac{30}{383}, \frac{12}{383}, \frac{12}{383}, \frac{12}{383})$ $+\frac{24}{383}\sqrt{39}e^1 \otimes e_8 + \frac{24}{383}\sqrt{39}e^4 \otimes e_7 + \frac{72}{383}e^5 \otimes e_6$	{123459, 123469}
93:33	$0, 0, 0, 0, 0, 0, \frac{12}{347}\sqrt{133}e^{12}, \frac{12}{347}\sqrt{133}e^{34},$ $\frac{12}{347}\sqrt{26}e^{13} + \frac{12}{347}\sqrt{26}e^{24} + \frac{12}{347}\sqrt{29}e^{56}$	$(\frac{84}{347}, -\frac{72}{347}, -\frac{72}{347}, \frac{84}{347}, \frac{6}{347}, \frac{6}{347}, \frac{12}{347}, \frac{12}{347}, \frac{12}{347})$ $+\frac{24}{347}\sqrt{39}e^1 \otimes e_8 + \frac{24}{347}\sqrt{39}e^4 \otimes e_7$	{123459, 235678, 2378}
93:33	$0, 0, 0, 0, 0, 0, \frac{12}{259}\sqrt{142}e^{12}, \frac{12}{259}\sqrt{142}e^{34},$ $\frac{24}{259}\sqrt{13}e^{13} + \frac{24}{259}\sqrt{26}e^{24} + \frac{12}{259}\sqrt{38}e^{56}$	$(\frac{90}{259}, \frac{12}{259}, -\frac{66}{259}, \frac{12}{259}, \frac{12}{37}, -\frac{60}{259}, \frac{102}{259}, -\frac{54}{259}, \frac{24}{259})$ $+\frac{144}{259}e^5 \otimes e_6 + \frac{24}{259}\sqrt{78}e^1 \otimes e_8$	{1579, 1679, 3589, 3689}
93:33	$0, 0, 0, 0, 0, 0, \frac{6}{367}\sqrt{595}e^{12}, \frac{3}{367}\sqrt{1561}e^{34},$ $\frac{3}{367}\sqrt{455}e^{13} + \frac{3}{367}\sqrt{1547}e^{24} + \frac{3}{367}\sqrt{413}e^{56}$	$(\frac{54}{367}, -\frac{24}{367}, -\frac{87}{734}, \frac{69}{734}, \frac{93}{367}, -\frac{165}{734}, \frac{30}{367}, -\frac{9}{367}, \frac{21}{734})$ $+\frac{6}{367}\sqrt{546}e^1 \otimes e_8 + \frac{9}{367}\sqrt{273}e^5 \otimes e_7$	{123459, 1256, 2378, 246789}
93:33	$0, 0, 0, 0, 0, 0, \frac{6}{23}\sqrt{10}e^{12}, \frac{1}{23}\sqrt{165}e^{34},$ $\frac{1}{23}\sqrt{195}e^{13} + \frac{1}{23}\sqrt{195}e^{24} + \frac{6}{23}\sqrt{10}e^{56}$	$(-\frac{2}{23}, -\frac{2}{23}, \frac{9}{46}, \frac{9}{46}, \frac{11}{23}, -\frac{17}{46}, -\frac{4}{23}, \frac{9}{23}, \frac{5}{46})$ $+\frac{3}{23}\sqrt{65}e^5 \otimes e_7$	{123459, 1256, 136789, 1478, 3456, 59}
93:34	$0, 0, 0, 0, 0, 0, \frac{5}{2221}\sqrt{1110}e^{12}, \frac{200}{2221}e^{34},$ $\frac{5}{2221}\sqrt{1091}e^{13} + \frac{5}{2221}\sqrt{1378}e^{25} + \frac{10}{2221}\sqrt{134}e^{46}$	$(\frac{130}{2221}, -\frac{70}{2221}, -\frac{115}{2221}, \frac{20}{2221}, \frac{85}{2221}, -\frac{5}{2221}, \frac{60}{2221}, -\frac{95}{2221}, \frac{15}{2221})$ $+\frac{15}{2221}\sqrt{141}e^5 \otimes e_7 + \frac{25}{2221}\sqrt{33}e^4 \otimes e_6 + \frac{5}{2221}\sqrt{2069}e^2 \otimes e_8$	{1256, 1478}
93:34	$0, 0, 0, 0, 0, 0, \frac{54}{1597}\sqrt{109}e^{12}, \frac{9}{1597}\sqrt{2922}e^{34},$ $\frac{270}{1597}e^{13} + \frac{9}{1597}\sqrt{1290}e^{25} + \frac{18}{1597}\sqrt{429}e^{46}$	$(\frac{258}{1597}, -\frac{294}{1597}, -\frac{192}{1597}, \frac{207}{1597}, \frac{360}{1597}, -\frac{141}{1597}, -\frac{36}{1597}, \frac{15}{1597}, \frac{66}{1597})$ $+\frac{9}{1597}\sqrt{3702}e^1 \otimes e_8 + \frac{9}{1597}\sqrt{5010}e^4 \otimes e_7$	{123459, 157, 2378, 489}
93:34	$0, 0, 0, 0, 0, 0, \frac{8}{439}\sqrt{11}e^{12}, \frac{8}{439}\sqrt{11}e^{34},$ $\frac{2}{439}\sqrt{139}e^{13} + \frac{10}{439}\sqrt{2}e^{25} + \frac{10}{439}\sqrt{2}e^{46}$	$(-\frac{2}{439}, \frac{11}{439}, -\frac{2}{439}, \frac{11}{439}, -\frac{15}{439}, -\frac{15}{439}, \frac{9}{439}, \frac{9}{439}, -\frac{4}{439})$ $+\frac{2}{439}\sqrt{202}e^2 \otimes e_8 + \frac{2}{439}\sqrt{202}e^4 \otimes e_7$	{12349, 1356789, 2679}
93:34	$0, 0, 0, 0, 0, 0, \frac{2}{3637}\sqrt{639610}e^{12}, \frac{2}{3637}\sqrt{291846}e^{34},$ $\frac{2}{3637}\sqrt{335891}e^{13} + \frac{8}{3637}\sqrt{11873}e^{25} + \frac{2}{3637}\sqrt{386830}e^{46}$	$(-\frac{478}{3637}, \frac{359}{3637}, \frac{430}{3637}, \frac{647}{3637}, -\frac{407}{3637}, -\frac{695}{3637}, -\frac{119}{3637}, \frac{1077}{3637}, -\frac{48}{3637})$ $+\frac{2}{3637}\sqrt{466494}e^2 \otimes e_5 + \frac{4}{3637}\sqrt{201458}e^4 \otimes e_7$	{12468, 157, 2378, 3456}
93:34	$0, 0, 0, 0, 0, 0, \frac{24}{589}\sqrt{205}e^{12}, \frac{4}{589}\sqrt{11521}e^{34},$ $\frac{8}{589}\sqrt{1763}e^{13} + \frac{4}{589}\sqrt{9061}e^{25} + \frac{164}{589}\sqrt{2}e^{46}$	$(\frac{4}{31}, \frac{188}{589}, -\frac{25}{589}, -\frac{115}{589}, -\frac{137}{589}, \frac{166}{589}, \frac{264}{589}, -\frac{140}{589}, \frac{51}{589})$ $+\frac{4}{589}\sqrt{20705}e^2 \otimes e_8$	{123469, 1256, 135789, 1478, 23457, 279, 368, 45689}
93:34	$0, 0, 0, 0, 0, 0, \frac{1}{914}\sqrt{135286}e^{12}, \frac{1}{457}\sqrt{61387}e^{34},$ $\frac{1}{457}\sqrt{11730}e^{13} + \frac{1}{914}\sqrt{13685}e^{25} + \frac{2}{457}\sqrt{4301}e^{46}$	$(\frac{657}{1828}, -\frac{63}{914}, -\frac{563}{1828}, \frac{219}{914}, \frac{55}{457}, -\frac{86}{457}, \frac{531}{1828}, -\frac{125}{1828}, \frac{47}{914})$ $+\frac{1}{914}\sqrt{275655}e^4 \otimes e_6 + \frac{1}{914}\sqrt{366758}e^1 \otimes e_8$	{1234, 13457, 2478, 458}
93:34	$0, 0, 0, 0, 0, 0, \frac{1}{239}\sqrt{29962}e^{12}, \frac{1}{239}\sqrt{29962}e^{34},$ $\frac{3}{239}\sqrt{2110}e^{13} + \frac{1}{239}\sqrt{8018}e^{25} + \frac{1}{239}\sqrt{8018}e^{46}$	$(\frac{123}{239}, -\frac{12}{239}, -\frac{76}{239}, -\frac{12}{239}, \frac{59}{239}, \frac{59}{239}, \frac{111}{239}, -\frac{88}{239}, \frac{47}{239})$ $+\frac{1}{239}\sqrt{83978}e^1 \otimes e_8$	{1234, 1259, 13457, 179, 235789, 2478, 389, 458}
93:34	$0, 0, 0, 0, 0, 0, \frac{45}{7789}\sqrt{3458}e^{12}, \frac{45}{7789}\sqrt{4242}e^{34},$ $\frac{45}{7789}\sqrt{178}e^{13} + \frac{90}{7789}\sqrt{309}e^{25} + \frac{45}{7789}\sqrt{1342}e^{46}$	$(\frac{1890}{7789}, -\frac{1710}{7789}, -\frac{1395}{7789}, \frac{1260}{7789}, \frac{2205}{7789}, -\frac{765}{7789}, \frac{180}{7789}, -\frac{135}{7789}, \frac{495}{7789})$ $+\frac{45}{7789}\sqrt{4146}e^4 \otimes e_6 + \frac{45}{7789}\sqrt{5786}e^1 \otimes e_8 + \frac{90}{7789}\sqrt{1093}e^5 \otimes e_7$	{1256, 167}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:34	$0, 0, 0, 0, 0, 0, \frac{6}{2731}\sqrt{57358}e^{12}, \frac{4}{2731}\sqrt{33981}e^{34},$ $\frac{10}{2731}\sqrt{482}e^{13} + \frac{2}{2731}\sqrt{220274}e^{25} + \frac{2}{2731}\sqrt{286790}e^{46}$	$(\frac{370}{2731}, -\frac{344}{2731}, \frac{13}{2731}, -\frac{607}{2731}, \frac{727}{2731}, \frac{990}{2731}, \frac{26}{2731}, -\frac{594}{2731}, \frac{383}{2731})$ $+ \frac{2}{2731}\sqrt{633830}e^6 \otimes e_7 + \frac{4}{2731}\sqrt{138093}e^1 \otimes e_8$	{13479, 157, 2378, 245789}
93:34	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{61387}e^{12}, \frac{1}{914}\sqrt{135286}e^{34},$ $\frac{1}{457}\sqrt{11730}e^{13} + \frac{2}{457}\sqrt{4301}e^{25} + \frac{1}{914}\sqrt{13685}e^{46}$	$(\frac{375}{1828}, \frac{219}{914}, -\frac{281}{1828}, -\frac{63}{914}, -\frac{86}{457}, \frac{55}{457}, \frac{813}{1828}, -\frac{407}{1828}, \frac{47}{914})$ $+ \frac{1}{914}\sqrt{275655}e^2 \otimes e_5 + \frac{1}{914}\sqrt{366758}e^1 \otimes e_8$	{1234, 13457, 2478, 458}
93:34	$0, 0, 0, 0, 0, 0, \frac{30}{3209}\sqrt{2926}e^{12}, \frac{6}{3209}\sqrt{52899}e^{34},$ $\frac{6}{3209}\sqrt{5005}e^{13} + \frac{42}{3209}\sqrt{462}e^{25} + \frac{12}{3209}\sqrt{4466}e^{46}$	$(\frac{879}{3209}, -\frac{894}{3209}, -\frac{402}{3209}, \frac{105}{3209}, \frac{1371}{3209}, \frac{582}{3209}, -\frac{15}{3209}, \frac{507}{3209}, \frac{477}{3209})$ $+ \frac{12}{3209}\sqrt{29722}e^1 \otimes e_8 + \frac{6}{3209}\sqrt{101255}e^5 \otimes e_7$	{12345, 1347, 23789, 3589}
93:34	$0, 0, 0, 0, 0, 0, \frac{2}{3429}\sqrt{827686}e^{12}, \frac{2}{3429}\sqrt{599630}e^{34},$ $\frac{10}{3429}\sqrt{20643}e^{13} + \frac{4}{3429}\sqrt{54065}e^{25} + \frac{8}{1143}\sqrt{4915}e^{46}$	$(\frac{20}{1143}, \frac{1159}{3429}, \frac{292}{3429}, -\frac{953}{3429}, -\frac{269}{1143}, \frac{145}{381}, \frac{1219}{3429}, -\frac{661}{3429}, \frac{352}{3429})$ $+ \frac{4}{1143}\sqrt{38337}e^2 \otimes e_5 + \frac{8}{3429}\sqrt{101249}e^6 \otimes e_8$	{23467, 2378, 3456, 358}
93:34	$0, 0, 0, 0, 0, 0, \frac{5}{108}\sqrt{130}e^{12}, \frac{5}{216}\sqrt{130}e^{34},$ $\frac{5}{108}\sqrt{22}e^{13} + \frac{5}{216}\sqrt{46}e^{25} + \frac{5}{216}\sqrt{46}e^{46}$	$(\frac{5}{144}, -\frac{25}{216}, \frac{5}{144}, -\frac{25}{216}, \frac{5}{27}, \frac{5}{27}, -\frac{35}{432}, -\frac{35}{432}, \frac{5}{72})$ $+ \frac{5}{216}\sqrt{199}e^1 \otimes e_8 + \frac{5}{216}\sqrt{199}e^3 \otimes e_7$	{1234, 179, 2478}
93:34	$0, 0, 0, 0, 0, 0, \frac{2}{571}\sqrt{6630}e^{12}, \frac{4}{571}\sqrt{14586}e^{34},$ $\frac{2}{571}\sqrt{22763}e^{13} + \frac{2}{571}\sqrt{60554}e^{25} + \frac{2}{571}\sqrt{26078}e^{46}$	$(\frac{214}{571}, -\frac{163}{571}, -\frac{80}{571}, -\frac{65}{571}, \frac{297}{571}, \frac{199}{571}, \frac{51}{571}, -\frac{145}{571}, \frac{134}{571})$ $+ \frac{14}{571}\sqrt{2210}e^5 \otimes e_8$	{123789, 12567, 134569, 148, 2345, 24689, 3678, 579}
93:34	$0, 0, 0, 0, 0, 0, \frac{6}{293}\sqrt{2318}e^{12}, \frac{6}{293}\sqrt{366}e^{34},$ $\frac{2}{293}\sqrt{5307}e^{13} + \frac{4}{293}\sqrt{915}e^{25} + \frac{4}{293}\sqrt{1281}e^{46}$	$(-\frac{32}{293}, \frac{199}{293}, \frac{64}{293}, \frac{7}{293}, -\frac{167}{293}, \frac{25}{293}, \frac{167}{293}, \frac{71}{293}, \frac{32}{293})$ $+ \frac{24}{293}\sqrt{305}e^2 \otimes e_5$	{12, 12468, 145678, 157, 23467, 2378, 3456, 358}
93:34	$0, 0, 0, 0, 0, 0, \frac{3}{671}\sqrt{5962}e^{12}, \frac{3}{671}\sqrt{1034}e^{34},$ $\frac{3}{671}\sqrt{770}e^{13} + \frac{3}{671}\sqrt{2354}e^{25} + \frac{6}{671}\sqrt{715}e^{46}$	$(0, \frac{6}{61}, \frac{3}{61}, -\frac{12}{61}, -\frac{3}{61}, \frac{15}{61}, \frac{6}{61}, -\frac{9}{61}, \frac{3}{61})$ $+ \frac{30}{671}\sqrt{55}e^6 \otimes e_7 + \frac{3}{671}\sqrt{4070}e^2 \otimes e_5 + \frac{3}{671}\sqrt{4202}e^1 \otimes e_8$	{157, 2378}
93:34	$0, 0, 0, 0, 0, 0, \frac{66}{443}\sqrt{10}e^{12}, \frac{66}{443}\sqrt{10}e^{34},$ $\frac{22}{443}\sqrt{83}e^{13} + \frac{44}{443}\sqrt{15}e^{25} + \frac{44}{443}\sqrt{15}e^{46}$	$(\frac{44}{443}, -\frac{99}{443}, \frac{44}{443}, -\frac{99}{443}, \frac{187}{443}, \frac{187}{443}, \frac{55}{443}, -\frac{55}{443}, \frac{88}{443})$ $+ \frac{308}{443}e^5 \otimes e_8 + \frac{308}{443}e^6 \otimes e_7$	{123689, 24789, 569}
93:34	$0, 0, 0, 0, 0, 0, \frac{30}{3869}\sqrt{910}e^{12}, \frac{100}{3869}\sqrt{91}e^{34},$ $\frac{10}{3869}\sqrt{7259}e^{13} + \frac{20}{3869}\sqrt{2443}e^{25} + \frac{20}{3869}\sqrt{791}e^{46}$	$(\frac{170}{3869}, -\frac{155}{3869}, \frac{40}{3869}, -\frac{545}{3869}, \frac{5}{53}, \frac{755}{3869}, \frac{15}{3869}, -\frac{505}{3869}, \frac{210}{3869})$ $+ \frac{20}{3869}\sqrt{3689}e^2 \otimes e_8 + \frac{20}{3869}\sqrt{14}e^5 \otimes e_7$	{1256, 1478, 279, 45689}
93:34	$0, 0, 0, 0, 0, 0, \frac{66}{443}\sqrt{10}e^{12}, \frac{66}{443}\sqrt{10}e^{34},$ $\frac{22}{443}\sqrt{83}e^{13} + \frac{44}{443}\sqrt{15}e^{25} + \frac{44}{443}\sqrt{15}e^{46}$	$(\frac{44}{443}, -\frac{99}{443}, \frac{44}{443}, -\frac{99}{443}, \frac{187}{443}, \frac{187}{443}, -\frac{55}{443}, -\frac{55}{443}, \frac{88}{443})$ $+ \frac{308}{443}e^5 \otimes e_7 + \frac{308}{443}e^6 \otimes e_8$	{24789, 2679, 569}
93:34	$0, 0, 0, 0, 0, 0, \frac{10}{1247}\sqrt{4278}e^{12}, \frac{10}{3741}\sqrt{2530}e^{34},$ $\frac{10}{3741}\sqrt{14099}e^{13} + \frac{20}{3741}\sqrt{3841}e^{25} + \frac{20}{3741}\sqrt{7130}e^{46}$	$(-\frac{764}{3741}, \frac{703}{3741}, \frac{340}{3741}, -\frac{833}{3741}, -\frac{149}{1247}, \frac{363}{1247}, -\frac{61}{3741}, \frac{187}{3741}, \frac{256}{3741})$ $+ \frac{20}{3741}\sqrt{8119}e^2 \otimes e_5 + \frac{40}{3741}\sqrt{2921}e^6 \otimes e_7$	{1246, 1578, 237, 34568}
93:34	$0, 0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502}e^{12}, \frac{2}{297}\sqrt{5809}e^{34},$ $\frac{2}{297}\sqrt{8007}e^{13} + \frac{2}{99}\sqrt{1570}e^{25} + \frac{2}{297}\sqrt{314}e^{46}$	$(\frac{17}{297}, -\frac{124}{297}, \frac{2}{9}, \frac{23}{297}, \frac{23}{297}, \frac{20}{33}, \frac{20}{99}, -\frac{107}{297}, \frac{89}{297}, \frac{83}{297})$ $+ \frac{14}{297}\sqrt{785}e^5 \otimes e_7$	{12458, 1256, 1478, 167, 246789, 279, 45689, 59}
93:35	$0, 0, 0, 0, 0, 0, \frac{2}{3445}\sqrt{722798}e^{12}, \frac{2}{3445}\sqrt{451542}e^{13} + \frac{2}{689}\sqrt{18194}e^{24},$ $\frac{8}{3445}\sqrt{33907}e^{34} + \frac{2}{3445}\sqrt{540858}e^{56}$	$(\frac{1198}{3445}, \frac{102}{3445}, -\frac{776}{3445}, \frac{64}{689}, \frac{599}{3445}, -\frac{211}{689}, \frac{20}{53}, \frac{422}{3445}, -\frac{456}{3445})$ $+ \frac{1654}{3445}e^5 \otimes e_6 + \frac{8}{3445}\sqrt{113299}e^1 \otimes e_9$	{3589, 3689, 459, 469}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{1534}e^{12}, \frac{5}{377}\sqrt{78}e^{13} + \frac{2}{377}\sqrt{65}e^{24},$ $\frac{1}{377}\sqrt{494}e^{34} + \frac{2}{377}\sqrt{858}e^{56}$	$(\frac{2}{29}, -\frac{3}{29}, -\frac{2}{29}, \frac{3}{29}, 0, \frac{1}{29}, -\frac{1}{29}, 0, \frac{1}{29})$ $+ \frac{1}{377}\sqrt{2990}e^6 \otimes e_8 + \frac{2}{29}\sqrt{5}e^1 \otimes e_9 + \frac{2}{377}\sqrt{663}e^5 \otimes e_7$	{1478, 34589}
93:35	$0, 0, 0, 0, 0, 0, \frac{2}{311}\sqrt{3486}e^{12}, \frac{2}{311}\sqrt{2490}e^{13} + \frac{2}{311}\sqrt{2490}e^{24},$ $\frac{4}{311}\sqrt{498}e^{34} + \frac{6}{311}\sqrt{498}e^{56}$	$(\frac{38}{311}, \frac{38}{311}, \frac{44}{311}, \frac{44}{311}, \frac{293}{311}, -\frac{205}{311}, \frac{76}{311}, \frac{82}{311}, \frac{88}{311})$ $+ \frac{498}{311}e^5 \otimes e_6$	{13579, 13679, 145789, 146789}
93:35	$0, 0, 0, 0, 0, 0, \frac{6}{2105}\sqrt{42}e^{12}, \frac{2}{2105}\sqrt{202}e^{13} + \frac{1}{2105}\sqrt{1135}e^{24},$ $\frac{8}{2105}\sqrt{22}e^{34} + \frac{2}{2105}\sqrt{78}e^{56}$	$(\frac{12}{2105}, -\frac{27}{2105}, -\frac{14}{2105}, \frac{5}{421}, \frac{6}{2105}, \frac{1}{421}, -\frac{3}{421}, -\frac{2}{2105}, \frac{11}{2105})$ $+ \frac{1}{2105}\sqrt{1865}e^3 \otimes e_7 + \frac{1}{2105}\sqrt{2021}e^1 \otimes e_9 + \frac{1}{2105}e^5 \otimes e_6$	{3589, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:35	$0, 0, 0, 0, 0, 0, \frac{2}{3469}\sqrt{879726}e^{12}, \frac{4}{3469}\sqrt{101955}e^{13} + \frac{16}{3469}\sqrt{9710}e^{24},$ $\frac{36}{3469}\sqrt{2913}e^{34} + \frac{6}{3469}\sqrt{21362}e^{56}$	$(-\frac{948}{3469}, \frac{112}{3469}, \frac{1106}{3469}, \frac{46}{3469}, \frac{1547}{3469}, -\frac{395}{3469}, -\frac{836}{3469}, \frac{158}{3469}, \frac{1152}{3469})$ $+\frac{1942}{3469}e^5 \otimes e_6 + \frac{4}{3469}\sqrt{514630}e^3 \otimes e_7$	{1578, 1678, 257, 267}
93:35	$0, 0, 0, 0, 0, 0, \frac{4}{1403}\sqrt{42}e^{12}, \frac{4}{4209}\sqrt{202}e^{13} + \frac{2}{4209}\sqrt{1135}e^{24},$ $\frac{16}{4209}\sqrt{22}e^{34} + \frac{4}{4209}\sqrt{78}e^{56}$	$(\frac{8}{1403}, -\frac{18}{4209}, -\frac{28}{4209}, \frac{50}{4209}, \frac{11}{4209}, \frac{11}{4209}, -\frac{10}{4209}, -\frac{4}{4209}, \frac{22}{4209})$ $+\frac{2}{4209}\sqrt{1865}e^3 \otimes e_7 + \frac{2}{4209}\sqrt{2021}e^1 \otimes e_9$	{15678, 178, 3589}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{2806}e^{12}, \frac{1}{64}\sqrt{305}e^{13} + \frac{1}{64}\sqrt{305}e^{24},$ $\frac{1}{32}\sqrt{61}e^{34} + \frac{1}{32}\sqrt{671}e^{56}$	$(-\frac{19}{128}, -\frac{19}{128}, \frac{31}{128}, \frac{31}{128}, \frac{21}{64}, -\frac{11}{64}, -\frac{19}{64}, \frac{3}{32}, \frac{31}{64})$ $+\frac{1}{64}\sqrt{6466}e^5 \otimes e_7$	{1234589, 1259, 1378, 147, 3459, 589}
93:35	$0, 0, 0, 0, 0, 0, \frac{4}{347}\sqrt{1110}e^{12}, \frac{8}{347}\sqrt{15}e^{13} + \frac{28}{347}\sqrt{3}e^{24},$ $\frac{4}{347}\sqrt{1023}e^{34} + \frac{12}{347}\sqrt{29}e^{56}$	$(\frac{84}{347}, -\frac{72}{347}, -\frac{72}{347}, \frac{84}{347}, \frac{6}{347}, \frac{6}{347}, \frac{12}{347}, \frac{12}{347}, \frac{12}{347})$ $+\frac{4}{347}\sqrt{1317}e^4 \otimes e_7 + \frac{4}{347}\sqrt{1491}e^1 \otimes e_9$	{1234568, 12348, 23579}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{1249}\sqrt{879726}e^{12}, \frac{2}{1249}\sqrt{101955}e^{13} + \frac{8}{1249}\sqrt{9710}e^{24},$ $\frac{18}{1249}\sqrt{2913}e^{34} + \frac{3}{1249}\sqrt{21362}e^{56}$	$(-\frac{474}{1249}, \frac{56}{1249}, \frac{553}{1249}, \frac{23}{1249}, \frac{288}{1249}, \frac{288}{1249}, -\frac{418}{1249}, \frac{79}{1249}, \frac{576}{1249})$ $+\frac{2}{1249}\sqrt{514630}e^3 \otimes e_7$	{123569, 1239, 1578, 257, 35689, 389}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{1309}\sqrt{722798}e^{12}, \frac{1}{1309}\sqrt{451542}e^{13} + \frac{5}{1309}\sqrt{18194}e^{24},$ $\frac{4}{1309}\sqrt{33907}e^{34} + \frac{1}{1309}\sqrt{540858}e^{56}$	$(\frac{599}{1309}, \frac{3}{77}, -\frac{388}{1309}, \frac{160}{1309}, -\frac{114}{1309}, -\frac{114}{1309}, \frac{650}{1309}, \frac{211}{1309}, -\frac{228}{1309})$ $+\frac{4}{1309}\sqrt{113299}e^1 \otimes e_9$	{134567, 1347, 15678, 178, 3589, 459}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{2189}\sqrt{1590}e^{12}, \frac{1}{2189}\sqrt{834}e^{13} + \frac{20}{2189}\sqrt{3}e^{24},$ $\frac{1}{2189}\sqrt{1486}e^{34} + \frac{2}{2189}\sqrt{78}e^{56}$	$(\frac{12}{2189}, -\frac{27}{2189}, -\frac{14}{2189}, \frac{25}{2189}, -\frac{1}{2189}, \frac{12}{2189}, -\frac{15}{2189}, -\frac{2}{2189}, \frac{1}{199})$ $+\frac{1}{2189}\sqrt{26}e^5 \otimes e_8 + \frac{2}{2189}\sqrt{489}e^3 \otimes e_7 + \frac{8}{2189}\sqrt{33}e^1 \otimes e_9$	{15678, 3589}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{1022}e^{12}, \frac{1}{383}\sqrt{17958}e^{13} + \frac{1}{383}\sqrt{6862}e^{24},$ $\frac{4}{383}\sqrt{365}e^{34} + \frac{1}{383}\sqrt{20586}e^{56}$	$(\frac{61}{383}, -\frac{15}{383}, -\frac{44}{383}, \frac{32}{383}, \frac{90}{383}, -\frac{102}{383}, \frac{46}{383}, \frac{17}{383}, -\frac{12}{383})$ $+\frac{4}{383}\sqrt{1387}e^1 \otimes e_9 + \frac{8}{383}\sqrt{438}e^5 \otimes e_8$	{13567, 1478, 34689, 59}
93:35	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{5}e^{12}, \frac{4}{43}\sqrt{5}e^{13} + \frac{2}{43}\sqrt{10}e^{24},$ $\frac{2}{43}\sqrt{10}e^{34} + \frac{2}{43}\sqrt{30}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{14}{43}e^1 \otimes e_9 + \frac{2}{43}\sqrt{29}e^4 \otimes e_7 + \frac{2}{43}\sqrt{39}e^5 \otimes e_8$	{123456, 236789}
93:35	$0, 0, 0, 0, 0, 0, \frac{4}{383}\sqrt{1110}e^{12}, \frac{8}{383}\sqrt{15}e^{13} + \frac{28}{383}\sqrt{3}e^{24},$ $\frac{4}{383}\sqrt{1023}e^{34} + \frac{12}{383}\sqrt{29}e^{56}$	$(\frac{84}{383}, -\frac{72}{383}, -\frac{72}{383}, \frac{84}{383}, \frac{42}{383}, -\frac{30}{383}, \frac{12}{383}, \frac{12}{383}, \frac{12}{383})$ $+\frac{4}{383}\sqrt{1317}e^4 \otimes e_7 + \frac{4}{383}\sqrt{1491}e^1 \otimes e_9 + \frac{72}{383}e^5 \otimes e_6$	{23579, 23679}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{307}\sqrt{20562}e^{12}, \frac{1}{307}\sqrt{36654}e^{13} + \frac{1}{307}\sqrt{36654}e^{24},$ $\frac{2}{307}\sqrt{8642}e^{34} + \frac{1}{307}\sqrt{42018}e^{56}$	$(-\frac{15}{307}, -\frac{15}{307}, \frac{32}{307}, \frac{32}{307}, \frac{166}{307}, -\frac{102}{307}, -\frac{30}{307}, \frac{17}{307}, \frac{64}{307})$ $+\frac{2}{307}\sqrt{19966}e^5 \otimes e_8$	{1234579, 126789, 1356, 148, 346789, 579}
93:35	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{26}e^{12}, \frac{5}{52}\sqrt{13}e^{13} + \frac{5}{52}\sqrt{13}e^{24},$ $\frac{1}{26}\sqrt{91}e^{34} + \frac{1}{26}\sqrt{143}e^{56}$	$(-\frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{8}, 0, \frac{1}{4}, -\frac{1}{4}, 0, \frac{1}{4})$ $+\frac{1}{26}\sqrt{195}e^6 \otimes e_8 + \frac{1}{52}\sqrt{442}e^5 \otimes e_7$	{1234679, 1356, 679}
93:35	$0, 0, 0, 0, 0, 0, \frac{3}{209}\sqrt{170}e^{12}, \frac{1}{209}\sqrt{11730}e^{13} + \frac{20}{209}\sqrt{17}e^{24},$ $\frac{1}{209}\sqrt{4930}e^{34} + \frac{10}{209}\sqrt{102}e^{56}$	$(-\frac{36}{209}, -\frac{7}{209}, \frac{42}{209}, \frac{13}{209}, \frac{91}{209}, -\frac{36}{209}, -\frac{43}{209}, \frac{6}{209}, \frac{5}{19})$ $+\frac{1}{209}\sqrt{21590}e^5 \otimes e_8 + \frac{2}{209}\sqrt{2465}e^3 \otimes e_7$	{126789, 1356, 238, 579}
93:35	$0, 0, 0, 0, 0, 0, \frac{18}{4001}\sqrt{5214}e^{12}, \frac{90}{4001}\sqrt{55}e^{13} + \frac{48}{4001}\sqrt{330}e^{24},$ $\frac{6}{4001}\sqrt{16599}e^{34} + \frac{66}{4001}\sqrt{318}e^{56}$	$(\frac{613}{4001}, -\frac{402}{4001}, -\frac{498}{4001}, \frac{517}{4001}, \frac{805}{4001}, -\frac{786}{4001}, \frac{211}{4001}, \frac{115}{4001}, \frac{19}{4001})$ $+\frac{6}{4001}\sqrt{52503}e^5 \otimes e_7 + \frac{6}{4001}\sqrt{66990}e^1 \otimes e_9$	{1347, 178, 3589, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{1}{175}\sqrt{70}e^{12}, \frac{2}{175}\sqrt{210}e^{13} + \frac{1}{175}\sqrt{3290}e^{24},$ $\frac{2}{35}\sqrt{35}e^{35} + \frac{2}{25}\sqrt{10}e^{46}$	$(0, -\frac{1}{5}, 0, \frac{1}{5}, \frac{1}{5}, 0, -\frac{1}{5}, 0, \frac{1}{5})$ $+\frac{12}{175}\sqrt{35}e^5 \otimes e_8 + \frac{1}{175}\sqrt{2870}e^4 \otimes e_6 + \frac{1}{25}\sqrt{70}e^3 \otimes e_7$	{12345, 1478}
93:36	$0, 0, 0, 0, 0, 0, \frac{6}{1091}\sqrt{4029}e^{12}, \frac{5}{1091}\sqrt{51034}e^{13} + \frac{1}{1091}\sqrt{351866}e^{24},$ $\frac{1}{1091}\sqrt{400214}e^{35} + \frac{2}{1091}\sqrt{103411}e^{46}$	$(-\frac{239}{1091}, \frac{367}{1091}, \frac{765}{1091}, \frac{159}{1091}, -\frac{578}{1091}, \frac{28}{1091}, \frac{128}{1091}, \frac{526}{1091}, \frac{187}{1091})$ $+\frac{3}{1091}\sqrt{271286}e^3 \otimes e_5$	{1237, 1245678, 1346, 158, 23468, 25, 378, 4567}
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{113}\sqrt{83}e^{12}, \frac{6}{113}\sqrt{83}e^{13} + \frac{6}{113}\sqrt{83}e^{24},$ $\frac{1}{113}\sqrt{249}e^{35} + \frac{1}{113}\sqrt{249}e^{46}$	$(\frac{2}{113}, \frac{2}{113}, \frac{46}{113}, \frac{46}{113}, -\frac{37}{113}, -\frac{37}{113}, \frac{4}{113}, \frac{48}{113}, \frac{9}{113})$ $+\frac{1}{113}\sqrt{8383}e^3 \otimes e_5 + \frac{1}{113}\sqrt{8383}e^4 \otimes e_6$	{12347, 125678, 136, 1458, 3478, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:36	$0, 0, 0, 0, 0, 0, \frac{10}{317}\sqrt{193e^{12}}, \frac{1}{317}\sqrt{14282e^{13}} + \frac{1}{317}\sqrt{5790e^{24}},$ $\frac{1}{317}\sqrt{8878e^{35}} + \frac{2}{317}\sqrt{6755e^{46}}$	$(-\frac{49}{317}, -\frac{27}{317}, \frac{139}{317}, \frac{117}{317}, -\frac{54}{317}, -\frac{32}{317}, -\frac{76}{317}, \frac{90}{317}, \frac{85}{317})$ $+ \frac{1}{317}\sqrt{44390e^3} \otimes e_5 + \frac{2}{317}\sqrt{15826e^4} \otimes e_7$	{12346, 137, 2378, 3468}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{2805}\sqrt{659e^{12}}, \frac{2}{2805}\sqrt{789e^{13}} + \frac{2}{2805}\sqrt{479e^{24}},$ $\frac{2}{2805}\sqrt{258e^{35}} + \frac{4}{2805}\sqrt{181e^{46}}$	$(-\frac{1}{187}, \frac{37}{2805}, \frac{8}{935}, -\frac{28}{2805}, -\frac{41}{2805}, \frac{1}{255}, \frac{255}{935}, -\frac{1}{165})$ $+ \frac{16}{2805}\sqrt{19e^1} \otimes e_9 + \frac{2}{2805}\sqrt{518e^6} \otimes e_8 + \frac{2}{2805}\sqrt{854e^3} \otimes e_7$	{178, 25679}
93:36	$0, 0, 0, 0, 0, 0, \frac{6}{223}\sqrt{935e^{12}}, \frac{11}{223}\sqrt{170e^{13}} + \frac{4}{223}\sqrt{187e^{24}},$ $\frac{4}{223}\sqrt{37774e^{35}} + \frac{5}{223}\sqrt{374e^{46}}$	$(-\frac{1}{223}, -\frac{64}{223}, -\frac{12}{223}, \frac{51}{223}, \frac{122}{223}, \frac{59}{223}, -\frac{65}{223}, -\frac{13}{223}, \frac{110}{223})$ $+ \frac{3}{223}\sqrt{7854e^5} \otimes e_7$	{123568, 124569, 1346789, 167, 234679, 2678, 356, 45689}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{30e^{12}}, \frac{2}{555}\sqrt{174e^{13}} + \frac{1}{185}\sqrt{107e^{24}},$ $\frac{4}{555}\sqrt{6e^{35}} + \frac{8}{555}\sqrt{21e^{46}}$	$(-\frac{4}{555}, \frac{19}{555}, -\frac{2}{555}, -\frac{5}{111}, -\frac{1}{111}, \frac{6}{185}, \frac{1}{37}, -\frac{2}{185}, -\frac{7}{555})$ $+ \frac{13}{185}e^1 \otimes e_9 + \frac{1}{555}\sqrt{1221e^6} \otimes e_7 + \frac{1}{555}\sqrt{357e^3} \otimes e_5$	{124568, 1578}
93:36	$0, 0, 0, 0, 0, 0, \frac{76}{3071}\sqrt{186e^{12}}, \frac{8}{3071}\sqrt{30666e^{13}} + \frac{8}{3071}\sqrt{21831e^{24}},$ $\frac{8}{3071}\sqrt{570e^{35}} + \frac{4}{3071}\sqrt{107274e^{46}}$	$(\frac{412}{3071}, \frac{485}{3071}, \frac{206}{3071}, \frac{133}{3071}, -\frac{706}{3071}, -\frac{633}{3071}, \frac{897}{3071}, \frac{618}{3071}, -\frac{500}{3071})$ $+ \frac{4}{3071}\sqrt{201666e^1} \otimes e_9 + \frac{8}{3071}\sqrt{28329e^3} \otimes e_5$	{234789, 25679, 3689, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{165e^{12}}, \frac{2}{677}\sqrt{590e^{13}} + \frac{4}{677}\sqrt{78e^{24}},$ $\frac{4}{677}\sqrt{590e^{35}} + \frac{4}{677}\sqrt{87e^{46}}$	$(\frac{18}{677}, -\frac{34}{677}, -\frac{8}{677}, \frac{44}{677}, \frac{18}{677}, -\frac{34}{677}, -\frac{16}{677}, \frac{10}{677}, \frac{10}{677})$ $+ \frac{12}{677}\sqrt{26e^3} \otimes e_7 + \frac{2}{677}\sqrt{1110e^1} \otimes e_9 - \frac{30}{677}\sqrt{2e^5} \otimes e_8$	{1235, 178, 25679, 3689}
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{165e^{12}}, \frac{2}{677}\sqrt{590e^{13}} + \frac{4}{677}\sqrt{78e^{24}},$ $\frac{4}{677}\sqrt{590e^{35}} + \frac{4}{677}\sqrt{87e^{46}}$	$(\frac{18}{677}, -\frac{34}{677}, -\frac{8}{677}, \frac{44}{677}, \frac{18}{677}, -\frac{34}{677}, -\frac{16}{677}, \frac{10}{677}, \frac{10}{677})$ $+ \frac{12}{677}\sqrt{26e^3} \otimes e_7 + \frac{2}{677}\sqrt{1110e^1} \otimes e_9 + \frac{30}{677}\sqrt{2e^5} \otimes e_8$	{1235, 178, 25679, 3689}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{3761}\sqrt{120765e^{12}}, \frac{2}{3761}\sqrt{87785e^{13}} + \frac{2}{3761}\sqrt{85263e^{24}},$ $\frac{4}{3761}\sqrt{16490e^{35}} + \frac{8}{3761}\sqrt{4947e^{46}}$	$(\frac{99}{3761}, -\frac{37}{3761}, \frac{256}{3761}, \frac{392}{3761}, -\frac{351}{3761}, -\frac{487}{3761}, \frac{62}{3761}, \frac{355}{3761}, -\frac{95}{3761})$ $+ \frac{12}{3761}\sqrt{4074e^3} \otimes e_7 + \frac{16}{3761}\sqrt{2910e^1} \otimes e_9$	{1235, 178, 25679, 3689}
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{1279}\sqrt{16005e^{12}}, \frac{4}{1279}\sqrt{10670e^{13}} + \frac{12}{1279}\sqrt{1067e^{24}},$ $\frac{4}{1279}\sqrt{13871e^{35}} + \frac{4}{1279}\sqrt{16005e^{46}}$	$(-\frac{113}{1279}, -\frac{102}{1279}, \frac{91}{1279}, -\frac{102}{1279}, \frac{561}{1279}, \frac{572}{1279}, \frac{215}{1279}, -\frac{204}{1279}, \frac{470}{1279})$ $+ \frac{20}{1279}\sqrt{2231e^6} \otimes e_8 + \frac{4}{1279}\sqrt{52574e^5} \otimes e_7$	{123456, 13679, 2467, 569}
93:36	$0, 0, 0, 0, 0, 0, \frac{14}{3025}\sqrt{557e^{12}}, \frac{98}{3025}\sqrt{13e^{13}} + \frac{14}{3025}\sqrt{131e^{24}},$ $\frac{28}{3025}\sqrt{30e^{35}} + \frac{28}{3025}\sqrt{273e^{46}}$	$(\frac{7}{121}, -\frac{189}{3025}, -\frac{56}{605}, \frac{84}{3025}, \frac{357}{3025}, -\frac{7}{3025}, -\frac{14}{3025}, -\frac{21}{605}, \frac{7}{275})$ $+ \frac{28}{3025}\sqrt{202e^4} \otimes e_7 + \frac{28}{3025}\sqrt{283e^1} \otimes e_9 + \frac{56}{3025}\sqrt{53e^6} \otimes e_8$	{1578, 2679}
93:36	$0, 0, 0, 0, 0, 0, \frac{76}{2975}\sqrt{93e^{12}}, \frac{76}{2975}\sqrt{62e^{13}} + \frac{57}{2975}\sqrt{82e^{24}},$ $\frac{19}{2975}\sqrt{746e^{35}} + \frac{76}{2975}\sqrt{93e^{46}}$	$(\frac{76}{595}, -\frac{114}{2975}, -\frac{608}{2975}, -\frac{114}{2975}, \frac{627}{2975}, \frac{19}{425}, \frac{38}{425}, -\frac{228}{2975}, \frac{19}{2975})$ $+ \frac{19}{2975}\sqrt{1478e^5} \otimes e_7 + \frac{57}{2975}\sqrt{302e^1} \otimes e_9 + \frac{76}{2975}\sqrt{77e^6} \otimes e_8$	{178, 234789}
93:36	$0, 0, 0, 0, 0, 0, \frac{22}{149}\sqrt{3e^{12}}, \frac{6}{149}\sqrt{165e^{13}} + \frac{2}{149}\sqrt{33e^{24}},$ $\frac{2}{149}\sqrt{66e^{35}} + \frac{4}{149}\sqrt{231e^{46}}$	$(-\frac{39}{149}, \frac{5}{149}, \frac{32}{149}, -\frac{12}{149}, \frac{15}{149}, \frac{59}{149}, \frac{34}{149}, -\frac{7}{149}, \frac{47}{149})$ $+ \frac{2}{149}\sqrt{2046e^3} \otimes e_7 + \frac{2}{149}\sqrt{2310e^6} \otimes e_8$	{123456, 145789, 2467, 3489}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{315}\sqrt{210e^{12}}, \frac{11}{315}\sqrt{42e^{13}} + \frac{4}{315}\sqrt{105e^{24}},$ $\frac{2}{45}\sqrt{6e^{35}} + \frac{4}{315}\sqrt{273e^{46}}$	$(0, \frac{2}{15}, 0, -\frac{2}{15}, -\frac{1}{15}, \frac{2}{15}, 0, -\frac{1}{15})$ $+ \frac{1}{315}\sqrt{2982e^3} \otimes e_5 + \frac{1}{315}\sqrt{4326e^6} \otimes e_8 + \frac{1}{45}\sqrt{102e^1} \otimes e_9$	{13467, 1578}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{583}\sqrt{32565e^{12}}, \frac{2}{583}\sqrt{27221e^{13}} + \frac{2}{583}\sqrt{27555e^{24}},$ $\frac{16}{583}\sqrt{167e^{35}} + \frac{4}{583}\sqrt{9519e^{46}}$	$(\frac{225}{583}, \frac{61}{583}, -\frac{136}{583}, \frac{28}{583}, \frac{27}{583}, -\frac{137}{583}, \frac{26}{53}, \frac{89}{583}, -\frac{109}{583})$ $+ \frac{4}{583}\sqrt{20541e^1} \otimes e_9$	{1235, 12468, 134567, 178, 234789, 25679, 3689, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{8}{3599}\sqrt{4071e^{12}}, \frac{24}{3599}\sqrt{206e^{13}} + \frac{8}{3599}\sqrt{3270e^{24}},$ $\frac{48}{3599}\sqrt{3e^{35}} + \frac{120}{3599}\sqrt{21e^{46}}$	$(\frac{110}{3599}, \frac{13}{3599}, -\frac{302}{3599}, \frac{205}{3599}, \frac{316}{3599}, \frac{219}{3599}, \frac{123}{3599}, -\frac{192}{3599}, \frac{14}{3599})$ $+ \frac{152}{3599}\sqrt{15e^1} \otimes e_9 + \frac{8}{3599}\sqrt{4542e^6} \otimes e_7$	{124568, 1578, 2345789, 35689}
93:36	$0, 0, 0, 0, 0, 0, \frac{6}{2789}\sqrt{10005e^{12}}, \frac{6}{2789}\sqrt{28101e^{13}} + \frac{6}{2789}\sqrt{9715e^{24}},$ $\frac{48}{2789}\sqrt{58e^{35}} + \frac{12}{2789}\sqrt{7859e^{46}}$	$(\frac{355}{2789}, \frac{263}{2789}, -\frac{568}{2789}, -\frac{476}{2789}, \frac{401}{2789}, \frac{309}{2789}, \frac{618}{2789}, -\frac{213}{2789}, -\frac{167}{2789})$ $+ \frac{12}{2789}\sqrt{10121e^1} \otimes e_9 + \frac{24}{2789}\sqrt{2030e^6} \otimes e_8$	{13467, 1578, 2345789, 2679}
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{497}\sqrt{1281e^{12}}, \frac{8}{497}\sqrt{1155e^{13}} + \frac{12}{497}\sqrt{7e^{24}},$ $\frac{12}{71}\sqrt{5e^{35}} + \frac{36}{497}\sqrt{35e^{46}}$	$(-\frac{17}{71}, \frac{14}{71}, \frac{17}{71}, -\frac{14}{71}, -\frac{7}{71}, \frac{24}{71}, -\frac{3}{71}, 0, \frac{10}{71})$ $+ \frac{4}{497}\sqrt{4074e^3} \otimes e_5 + \frac{4}{497}\sqrt{5523e^6} \otimes e_8$	{123467, 12578, 238, 2456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:36	$0, 0, 0, 0, 0, 0, \frac{4}{113}\sqrt{83}e^{12}, \frac{6}{113}\sqrt{83}e^{13} + \frac{6}{113}\sqrt{83}e^{24},$ $\frac{1}{113}\sqrt{249}e^{35} + \frac{1}{113}\sqrt{249}e^{46}$	$(\frac{2}{113}, \frac{2}{113}, \frac{46}{113}, \frac{46}{113}, -\frac{37}{113}, -\frac{37}{113}, \frac{4}{113}, \frac{48}{113}, \frac{9}{113})$ $+ \frac{1}{113}\sqrt{8383}e^3 \otimes e_5 - \frac{1}{113}\sqrt{8383}e^4 \otimes e_6$	{12347, 125678, 136, 1458, 3478, 567}
93:36	$0, 0, 0, 0, 0, 0, \frac{24}{97}\sqrt{2}e^{12}, \frac{6}{97}\sqrt{11}e^{13} + \frac{6}{97}\sqrt{10}e^{24},$ $\frac{6}{97}\sqrt{5}e^{35} + \frac{6}{97}\sqrt{34}e^{46}$	$(\frac{17}{97}, -\frac{12}{97}, -\frac{6}{97}, \frac{23}{97}, \frac{5}{97}, -\frac{24}{97}, \frac{5}{97}, \frac{11}{97}, -\frac{1}{97})$ $+ \frac{30}{97}\sqrt{2}e^1 \otimes e_9 + \frac{6}{97}\sqrt{37}e^4 \otimes e_7$	{12468, 178, 25679, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{559}\sqrt{15663}e^{12}, \frac{2}{559}\sqrt{15209}e^{13} + \frac{30}{559}\sqrt{227}e^{24},$ $\frac{2}{559}\sqrt{45854}e^{35} + \frac{2}{559}\sqrt{25878}e^{46}$	$(\frac{87}{559}, -\frac{71}{559}, -\frac{184}{559}, -\frac{2}{43}, \frac{357}{559}, \frac{199}{559}, \frac{16}{559}, -\frac{97}{559}, \frac{173}{559})$ $+ \frac{2}{559}\sqrt{107598}e^5 \otimes e_8$	{123457, 12678, 1356, 148, 2389, 24569, 346789, 579}
93:36	$0, 0, 0, 0, 0, 0, \frac{100}{3799}\sqrt{177}e^{12}, \frac{100}{3799}\sqrt{19}e^{13} + \frac{25}{3799}\sqrt{1218}e^{24},$ $\frac{25}{3799}\sqrt{2010}e^{35} + \frac{100}{3799}\sqrt{78}e^{46}$	$(\frac{700}{3799}, -\frac{450}{3799}, -\frac{800}{3799}, \frac{350}{3799}, \frac{875}{3799}, -\frac{275}{3799}, \frac{250}{3799}, -\frac{100}{3799}, \frac{75}{3799})$ $+ \frac{100}{3799}e^4 \otimes e_6 + \frac{175}{3799}\sqrt{78}e^1 \otimes e_9 + \frac{25}{3799}\sqrt{3046}e^5 \otimes e_7$	{234789, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{1}{148}\sqrt{142}e^{12}, \frac{1}{296}\sqrt{206}e^{13} + \frac{1}{148}\sqrt{130}e^{24},$ $\frac{1}{296}\sqrt{106}e^{35} + \frac{1}{74}\sqrt{42}e^{46}$	$(-\frac{1}{148}, \frac{11}{296}, -\frac{1}{148}, -\frac{15}{296}, -\frac{1}{148}, \frac{11}{296}, \frac{9}{296}, -\frac{1}{74}, -\frac{1}{74})$ $+ \frac{1}{296}\sqrt{206}e^5 \otimes e_8 + \frac{1}{296}\sqrt{674}e^1 \otimes e_9 + \frac{1}{74}\sqrt{39}e^6 \otimes e_7$	{124568, 1578, 2345789, 35689}
93:36	$0, 0, 0, 0, 0, 0, \frac{1}{148}\sqrt{142}e^{12}, \frac{1}{296}\sqrt{206}e^{13} + \frac{1}{148}\sqrt{130}e^{24},$ $\frac{1}{296}\sqrt{106}e^{35} + \frac{1}{74}\sqrt{42}e^{46}$	$(-\frac{1}{148}, \frac{11}{296}, -\frac{1}{148}, -\frac{15}{296}, -\frac{1}{148}, \frac{11}{296}, \frac{9}{296}, -\frac{1}{74}, -\frac{1}{74})$ $- \frac{1}{296}\sqrt{206}e^5 \otimes e_8 + \frac{1}{296}\sqrt{674}e^1 \otimes e_9 + \frac{1}{74}\sqrt{39}e^6 \otimes e_7$	{124568, 1578, 2345789, 35689}
93:36	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{30}e^{12}, \frac{4}{23}\sqrt{7}e^{13} + \frac{2}{23}\sqrt{30}e^{24},$ $\frac{4}{23}\sqrt{5}e^{35} + \frac{2}{23}\sqrt{46}e^{46}$	$(-\frac{22}{69}, \frac{7}{69}, \frac{28}{69}, -\frac{1}{69}, -\frac{8}{69}, \frac{7}{23}, -\frac{5}{23}, \frac{20}{69})$ $+ \frac{10}{23}\sqrt{2}e^3 \otimes e_5 + \frac{2}{23}\sqrt{74}e^6 \otimes e_7$	{124568, 1578, 257, 456}
93:36	$0, 0, 0, 0, 0, 0, \frac{30}{3049}\sqrt{473}e^{12}, \frac{2}{3049}\sqrt{210485}e^{13} + \frac{2}{3049}\sqrt{231297}e^{24},$ $\frac{20}{3049}\sqrt{4730}e^{35} + \frac{132}{3049}\sqrt{43}e^{46}$	$(-\frac{369}{3049}, -\frac{413}{3049}, \frac{164}{3049}, \frac{208}{3049}, \frac{741}{3049}, \frac{697}{3049}, -\frac{782}{3049}, -\frac{205}{3049}, \frac{905}{3049})$ $+ \frac{24}{3049}\sqrt{4730}e^5 \otimes e_8 + \frac{4}{3049}\sqrt{154671}e^3 \otimes e_7$	{12345, 1478, 245679, 34689}
93:36	$0, 0, 0, 0, 0, 0, \frac{108}{1477}\sqrt{23}e^{12}, \frac{54}{1477}\sqrt{10}e^{13} + \frac{9}{1477}\sqrt{1434}e^{24},$ $\frac{9}{1477}\sqrt{2346}e^{35} + \frac{18}{1477}\sqrt{366}e^{46}$	$(\frac{272}{1477}, -\frac{174}{1477}, -\frac{312}{1477}, \frac{134}{1477}, \frac{341}{1477}, -\frac{15}{211}, \frac{14}{211}, -\frac{40}{1477}, \frac{29}{1477})$ $+ \frac{9}{1477}\sqrt{3558}e^5 \otimes e_7 + \frac{9}{1477}\sqrt{4470}e^1 \otimes e_9$	{1235, 178, 234789, 459}
93:36	$0, 0, 0, 0, 0, 0, \frac{16}{1735}\sqrt{3003}e^{12}, \frac{16}{1735}\sqrt{2310}e^{13} + \frac{32}{1735}\sqrt{385}e^{24},$ $\frac{48}{1735}\sqrt{154}e^{35} + \frac{16}{1735}\sqrt{3311}e^{46}$	$(\frac{638}{1735}, \frac{5}{347}, -\frac{294}{1735}, \frac{319}{1735}, \frac{36}{1735}, -\frac{577}{1735}, \frac{663}{1735}, \frac{344}{1735}, -\frac{258}{1735})$ $+ \frac{16}{1735}\sqrt{8141}e^1 \otimes e_9 + \frac{208}{1735}\sqrt{14}e^4 \otimes e_6$	{234789, 25679, 3689, 459}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{969}e^{13} + \frac{2}{93}\sqrt{357}e^{24}, -\frac{2}{93}\sqrt{969}e^{12} + \frac{2}{93}\sqrt{357}e^{34},$ $\frac{2}{93}\sqrt{1054}e^{56}$	$(\frac{12}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{12}{31}, -\frac{16}{93}, -\frac{16}{93}, \frac{11}{31}, \frac{11}{31}, -\frac{32}{93})$ $+ \frac{4}{93}\sqrt{663}e^1 \otimes e_9$	{123, 12356, 124567, 1247, 15678, 178, 2345789, 2589, 459, 123, 12356, 124567, 1247, 15678, 178, 2345789, 2589, 459}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{969}e^{13} + \frac{2}{93}\sqrt{357}e^{24}, \frac{2}{93}\sqrt{969}e^{12} + \frac{2}{93}\sqrt{357}e^{34},$ $\frac{2}{93}\sqrt{1054}e^{56}$	$(\frac{12}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{12}{31}, -\frac{16}{93}, -\frac{16}{93}, \frac{11}{31}, \frac{11}{31}, -\frac{32}{93})$ $+ \frac{4}{93}\sqrt{663}e^1 \otimes e_9$	{123, 12356, 124567, 1247, 15678, 178, 2345789, 2589, 459, 123, 12356, 124567, 1247, 15678, 178, 2345789, 2589, 459}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{6}e^{13} + \frac{2}{15}\sqrt{6}e^{24}, -\frac{2}{15}\sqrt{6}e^{12} + \frac{2}{15}\sqrt{6}e^{34},$ $\frac{4}{15}\sqrt{3}e^{56}$	$(\frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{14}{15}, -\frac{2}{3}, \frac{4}{15}, \frac{4}{15}, \frac{4}{15})$ $+ \frac{8}{5}e^5 \otimes e_6$	{123459, 123469, 12579, 12679, 145789, 146789, 59, 69, 123459, 123469, 12579, 12679, 145789, 146789, 59, 69}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{6}e^{13} + \frac{2}{15}\sqrt{6}e^{24}, \frac{2}{15}\sqrt{6}e^{12} + \frac{2}{15}\sqrt{6}e^{34},$ $\frac{4}{15}\sqrt{3}e^{56}$	$(\frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{2}{15}, \frac{14}{15}, -\frac{2}{3}, \frac{4}{15}, \frac{4}{15}, \frac{4}{15})$ $+ \frac{8}{5}e^5 \otimes e_6$	{123459, 123469, 12579, 12679, 145789, 146789, 59, 69, 123459, 123469, 12579, 12679, 145789, 146789, 59, 69}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{969}e^{13} + \frac{2}{93}\sqrt{969}e^{24}, -\frac{2}{93}\sqrt{357}e^{12} + \frac{2}{93}\sqrt{357}e^{34},$ $\frac{2}{93}\sqrt{1054}e^{56}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{2}{3}, \frac{16}{93}, -\frac{2}{31}, -\frac{2}{31}, \frac{46}{93})$ $+ \frac{4}{93}\sqrt{663}e^5 \otimes e_7$	{1234568, 1234589, 126789, 1278, 1356, 1359, 14679, 147, 568, 589, 1234568, 1234589, 126789, 1278, 1356, 1359, 14679, 147, 568, 589}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{969}e^{13} + \frac{2}{93}\sqrt{969}e^{24}, \frac{2}{93}\sqrt{357}e^{12} + \frac{2}{93}\sqrt{357}e^{34},$ $\frac{2}{93}\sqrt{1054}e^{56}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{2}{3}, \frac{16}{93}, -\frac{2}{31}, -\frac{2}{31}, \frac{46}{93})$ $+ \frac{4}{93}\sqrt{663}e^5 \otimes e_7$	{1234568, 1234589, 126789, 1278, 1356, 1359, 14679, 147, 568, 589, 1234568, 1234589, 126789, 1278, 1356, 1359, 14679, 147, 568, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{969}e^{13} + \frac{2}{127}\sqrt{357}e^{24}, -\frac{2}{127}\sqrt{969}e^{12} + \frac{2}{127}\sqrt{357}e^{34},$ $\frac{2}{127}\sqrt{1054}e^{56}$	$(\frac{36}{127}, -\frac{3}{127}, -\frac{3}{127}, \frac{36}{127}, \frac{18}{127}, -\frac{50}{127}, \frac{33}{127}, \frac{33}{127}, -\frac{32}{127})$ $+ \frac{4}{127}\sqrt{663}e^1 \otimes e_9 + \frac{68}{127}e^5 \otimes e_6$	{2345789, 2346789, 2589, 2689, 459, 469, 2345789, 2346789, 2589, 2689, 459, 469}
93:37	$0, 0, 0, 0, 0, 0, \frac{2}{127}\sqrt{969}e^{13} + \frac{2}{127}\sqrt{357}e^{24}, \frac{2}{127}\sqrt{969}e^{12} + \frac{2}{127}\sqrt{357}e^{34},$ $\frac{2}{127}\sqrt{1054}e^{56}$	$(\frac{36}{127}, -\frac{3}{127}, -\frac{3}{127}, \frac{36}{127}, \frac{18}{127}, -\frac{50}{127}, \frac{33}{127}, \frac{33}{127}, -\frac{32}{127})$ $+ \frac{4}{127}\sqrt{663}e^1 \otimes e_9 + \frac{68}{127}e^5 \otimes e_6$	{2345789, 2346789, 2589, 2689, 459, 469, 2345789, 2346789, 2589, 2689, 459, 469}
93:37	$0, 0, 0, 0, 0, 0, \frac{4}{849}\sqrt{618}e^{13} + \frac{4}{849}\sqrt{6}e^{24}, -\frac{4}{849}\sqrt{618}e^{12} + \frac{4}{849}\sqrt{6}e^{34},$ $\frac{4}{849}\sqrt{283}e^{56}$	$(\frac{24}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{24}{283}, \frac{20}{283}, \frac{20}{283}, -\frac{4}{283}, -\frac{4}{283}, \frac{40}{283})$ $+ \frac{16}{849}\sqrt{78}e^1 \otimes e_9 + \frac{8}{283}\sqrt{26}e^5 \otimes e_7 + \frac{8}{283}\sqrt{26}e^6 \otimes e_8$	{12356, 178, 2589, 12356, 178, 2589}
93:37	$0, 0, 0, 0, 0, 0, \frac{4}{849}\sqrt{618}e^{13} + \frac{4}{849}\sqrt{6}e^{24}, \frac{4}{849}\sqrt{618}e^{12} + \frac{4}{849}\sqrt{6}e^{34},$ $\frac{4}{849}\sqrt{283}e^{56}$	$(\frac{24}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{24}{283}, \frac{20}{283}, \frac{20}{283}, -\frac{4}{283}, -\frac{4}{283}, \frac{40}{283})$ $+ \frac{16}{849}\sqrt{78}e^1 \otimes e_9 + \frac{8}{283}\sqrt{26}e^5 \otimes e_7 + \frac{8}{283}\sqrt{26}e^6 \otimes e_8$	{12356, 178, 2589, 12356, 178, 2589}
93:37	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{33}e^{13} + \frac{8}{177}\sqrt{33}e^{24}, -\frac{8}{177}\sqrt{33}e^{12} + \frac{8}{177}\sqrt{33}e^{34},$ $\frac{8}{177}\sqrt{118}e^{56}$	$(-\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{40}{177}, \frac{40}{177}, -\frac{8}{59}, -\frac{8}{59}, \frac{80}{177})$ $+ \frac{16}{177}\sqrt{39}e^5 \otimes e_7 + \frac{16}{177}\sqrt{39}e^6 \otimes e_8$	{123456, 12679, 1478, 56, 123456, 12679, 1478, 56}
93:37	$0, 0, 0, 0, 0, 0, \frac{8}{177}\sqrt{33}e^{13} + \frac{8}{177}\sqrt{33}e^{24}, \frac{8}{177}\sqrt{33}e^{12} + \frac{8}{177}\sqrt{33}e^{34},$ $\frac{8}{177}\sqrt{118}e^{56}$	$(-\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{40}{177}, \frac{40}{177}, -\frac{8}{59}, -\frac{8}{59}, \frac{80}{177})$ $+ \frac{16}{177}\sqrt{39}e^5 \otimes e_7 + \frac{16}{177}\sqrt{39}e^6 \otimes e_8$	{123456, 12679, 1478, 56, 123456, 12679, 1478, 56}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{557}\sqrt{1505}e^{12}, \frac{20}{557}\sqrt{42}e^{14} + \frac{4}{557}\sqrt{1505}e^{35},$ $\frac{36}{557}\sqrt{70}e^{13} + \frac{60}{557}\sqrt{7}e^{46}$	$(\frac{58}{557}, -\frac{222}{557}, \frac{116}{557}, \frac{72}{557}, \frac{14}{557}, \frac{102}{557}, -\frac{164}{557}, \frac{130}{557}, \frac{174}{557})$ $+ \frac{8}{557}\sqrt{2065}e^1 \otimes e_2 + \frac{8}{557}\sqrt{2310}e^3 \otimes e_7$	{14679, 15789, 24578, 267}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{191}\sqrt{238}e^{12}, \frac{1}{191}\sqrt{455}e^{14} + \frac{1}{191}\sqrt{861}e^{35},$ $\frac{1}{191}\sqrt{455}e^{13} + \frac{1}{191}\sqrt{238}e^{46}$	$(\frac{25}{382}, -\frac{1}{382}, -\frac{27}{382}, -\frac{20}{191}, \frac{6}{191}, \frac{19}{191}, \frac{12}{191}, -\frac{15}{191}, -\frac{1}{191})$ $+ \frac{1}{191}\sqrt{1001}e^6 \otimes e_7 + \frac{2}{191}\sqrt{182}e^2 \otimes e_8 + \frac{2}{191}\sqrt{182}e^5 \otimes e_9$	{134789, 2479}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{14}e^{12}, \frac{1}{11}\sqrt{21}e^{14} + \frac{2}{11}\sqrt{14}e^{35},$ $\frac{1}{11}\sqrt{21}e^{13} + \frac{1}{11}\sqrt{21}e^{46}$	$(\frac{5}{22}, -\frac{9}{22}, -\frac{1}{11}, \frac{3}{22}, \frac{5}{11}, 0, -\frac{2}{11}, \frac{4}{11}, \frac{3}{22})$ $+ \frac{1}{11}\sqrt{105}e^5 \otimes e_7 + \frac{2}{11}\sqrt{7}e^1 \otimes e_2$	{134789, 17, 2378, 2479}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{287}\sqrt{345}e^{12}, \frac{60}{287}\sqrt{2}e^{14} + \frac{4}{287}\sqrt{565}e^{35},$ $\frac{4}{287}\sqrt{210}e^{13} + \frac{4}{287}\sqrt{345}e^{46}$	$(\frac{2}{287}, -\frac{38}{287}, \frac{4}{287}, \frac{48}{287}, \frac{46}{287}, -\frac{6}{41}, -\frac{36}{287}, \frac{50}{287}, \frac{6}{287})$ $+ \frac{8}{287}\sqrt{165}e^3 \otimes e_7 + \frac{8}{287}\sqrt{165}e^5 \otimes e_9 + \frac{8}{287}\sqrt{5}e^1 \otimes e_2$	{1235, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{30}e^{12}, \frac{2}{43}\sqrt{39}e^{14} + \frac{3}{43}\sqrt{22}e^{35},$ $\frac{1}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{30}e^{46}$	$(\frac{1}{86}, -\frac{6}{43}, \frac{1}{86}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{11}{86}, \frac{15}{86}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^3 \otimes e_7 + \frac{3}{43}\sqrt{26}e^5 \otimes e_9$	{1235, 1679, 2578, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{339}\sqrt{61}e^{12}, \frac{4}{1017}\sqrt{546}e^{14} + \frac{4}{1017}\sqrt{1173}e^{35},$ $\frac{4}{1017}\sqrt{78}e^{13} + \frac{4}{1017}\sqrt{861}e^{46}$	$(\frac{6}{113}, -\frac{34}{339}, -\frac{8}{339}, -\frac{8}{339}, \frac{6}{113}, \frac{6}{113}, -\frac{16}{339}, \frac{10}{339}, \frac{10}{339})$ $+ \frac{8}{1017}\sqrt{195}e^6 \otimes e_8 + \frac{8}{1017}\sqrt{273}e^5 \otimes e_9 + \frac{8}{339}\sqrt{26}e^3 \otimes e_7$	{1679, 2578}
93:38	$0, 0, 0, 0, 0, 0, \frac{6}{367}\sqrt{413}e^{12}, \frac{3}{367}\sqrt{455}e^{14} + \frac{6}{367}\sqrt{595}e^{35},$ $\frac{3}{367}\sqrt{1547}e^{13} + \frac{3}{367}\sqrt{1561}e^{46}$	$(\frac{121}{734}, -\frac{165}{734}, -\frac{24}{367}, -\frac{87}{734}, \frac{41}{367}, \frac{80}{367}, -\frac{22}{367}, \frac{17}{367}, \frac{73}{734})$ $+ \frac{6}{367}\sqrt{546}e^6 \otimes e_8 + \frac{9}{367}\sqrt{273}e^5 \otimes e_7$	{123569, 134789, 2378, 3456}
93:38	$0, 0, 0, 0, 0, 0, \frac{68}{979}\sqrt{22}e^{12}, \frac{17}{979}\sqrt{155}e^{14} + \frac{17}{979}\sqrt{305}e^{35},$ $\frac{68}{979}\sqrt{5}e^{13} + \frac{34}{979}\sqrt{142}e^{46}$	$(-\frac{85}{1958}, \frac{629}{1958}, \frac{68}{979}, -\frac{221}{1958}, -\frac{221}{979}, \frac{136}{979}, \frac{272}{979}, -\frac{153}{979}, \frac{51}{1958})$ $+ \frac{17}{979}\sqrt{329}e^3 \otimes e_5 + \frac{17}{979}\sqrt{789}e^2 \otimes e_9 + \frac{306}{979}\sqrt{2}e^6 \otimes e_8$	{145789, 2578}
93:38	$0, 0, 0, 0, 0, 0, \frac{3}{11}\sqrt{6}e^{12}, \frac{3}{11}\sqrt{5}e^{14} + \frac{7}{22}\sqrt{3}e^{35},$ $\frac{1}{22}\sqrt{246}e^{13} + \frac{3}{11}\sqrt{6}e^{46}$	$(-\frac{1}{44}, -\frac{7}{44}, \frac{3}{22}, \frac{7}{44}, 0, -\frac{1}{22}, -\frac{2}{11}, \frac{3}{22}, \frac{5}{44})$ $+ \frac{1}{11}\sqrt{33}e^3 \otimes e_5 + \frac{1}{22}\sqrt{222}e^1 \otimes e_2 + \frac{3}{22}\sqrt{23}e^6 \otimes e_7$	{134, 239}
93:38	$0, 0, 0, 0, 0, 0, \frac{12}{347}\sqrt{133}e^{12}, \frac{12}{347}\sqrt{26}e^{14} + \frac{12}{347}\sqrt{133}e^{35},$ $\frac{12}{347}\sqrt{26}e^{13} + \frac{12}{347}\sqrt{29}e^{46}$	$(-\frac{46}{347}, \frac{58}{347}, \frac{84}{347}, \frac{32}{347}, -\frac{98}{347}, \frac{6}{347}, \frac{12}{347}, -\frac{14}{347}, \frac{38}{347})$ $+ \frac{24}{347}\sqrt{39}e^2 \otimes e_8 + \frac{24}{347}\sqrt{39}e^3 \otimes e_7$	{123569, 145678, 2479, 38}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{35}\sqrt{13}e^{12}, \frac{8}{35}\sqrt{6}e^{14} + \frac{4}{35}\sqrt{13}e^{35},$ $\frac{8}{35}\sqrt{6}e^{13} + \frac{4}{35}\sqrt{13}e^{46}$	$(-\frac{26}{105}, \frac{22}{105}, \frac{46}{105}, \frac{46}{105}, -\frac{26}{105}, -\frac{26}{105}, -\frac{4}{105}, \frac{4}{21}, \frac{4}{21})$ $+ \frac{16}{35}\sqrt{3}e^3 \otimes e_5 + \frac{16}{35}\sqrt{3}e^4 \otimes e_6$	{12347, 134, 256, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{351}\sqrt{1245}e^{12}, \frac{16}{117}\sqrt{10}e^{14} + \frac{4}{351}\sqrt{1245}e^{35},$ $\frac{8}{117}\sqrt{70}e^{13} + \frac{4}{351}\sqrt{1245}e^{46}$	$(\frac{2}{27}, -\frac{94}{351}, \frac{74}{351}, \frac{2}{351}, -\frac{46}{351}, \frac{98}{351}, -\frac{68}{351}, \frac{28}{351}, \frac{100}{351})$ $+ \frac{16}{117}\sqrt{15}e^3 \otimes e_5 + \frac{32}{117}\sqrt{5}e^1 \otimes e_2$	{134, 14569, 239, 256}
93:38	$0, 0, 0, 0, 0, 0, \frac{12}{347}\sqrt{29}e^{12}, \frac{12}{347}\sqrt{26}e^{14} + \frac{12}{347}\sqrt{133}e^{35},$ $\frac{12}{347}\sqrt{26}e^{13} + \frac{12}{347}\sqrt{133}e^{46}$	$(\frac{58}{347}, \frac{6}{347}, -\frac{72}{347}, -\frac{72}{347}, \frac{58}{347}, \frac{58}{347}, \frac{64}{347}, -\frac{14}{347}, -\frac{14}{347})$ $+ \frac{24}{347}\sqrt{39}e^5 \otimes e_9 + \frac{24}{347}\sqrt{39}e^6 \otimes e_8$	{123489, 134789, 234567, 3456}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{209}\sqrt{93}e^{12}, \frac{1}{209}\sqrt{255}e^{14} + \frac{2}{209}\sqrt{115}e^{35},$ $\frac{3}{209}\sqrt{43}e^{13} + \frac{1}{209}\sqrt{321}e^{46}$	$(\frac{7}{418}, \frac{5}{418}, -\frac{8}{209}, -\frac{9}{418}, \frac{7}{209}, 0, \frac{6}{209}, -\frac{1}{209}, -\frac{9}{418})$ $+ \frac{1}{209}\sqrt{417}e^5 \otimes e_7 + \frac{2}{209}\sqrt{66}e^6 \otimes e_8 + \frac{8}{209}\sqrt{5}e^1 \otimes e_2$	{123569, 3456}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{353}\sqrt{1245}e^{12}, \frac{4}{353}\sqrt{390}e^{14} + \frac{180}{353}e^{35},$ $\frac{4}{353}\sqrt{390}e^{13} + \frac{4}{353}\sqrt{1245}e^{46}$	$(\frac{10}{353}, -\frac{42}{353}, \frac{88}{353}, -\frac{16}{353}, -\frac{94}{353}, \frac{114}{353}, -\frac{32}{353}, -\frac{6}{353}, \frac{98}{353})$ $+ \frac{24}{353}\sqrt{65}e^3 \otimes e_7 + \frac{24}{353}\sqrt{65}e^6 \otimes e_8$	{123489, 123569, 3456, 38}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{297}\sqrt{690}e^{12}, \frac{2}{297}\sqrt{130}e^{14} + \frac{2}{297}\sqrt{690}e^{35},$ $\frac{2}{297}\sqrt{455}e^{13} + \frac{2}{297}\sqrt{235}e^{46}$	$(\frac{1}{99}, \frac{16}{297}, -\frac{23}{297}, \frac{1}{99}, \frac{29}{297}, -\frac{23}{297}, \frac{19}{297}, \frac{9}{99}, -\frac{20}{297})$ $+ \frac{10}{297}\sqrt{26}e^2 \otimes e_8 + \frac{2}{297}\sqrt{715}e^5 \otimes e_7$	{123569, 134789, 2479, 5689}
93:38	$0, 0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{26}e^{14} + \frac{12}{187}\sqrt{142}e^{35},$ $\frac{24}{187}\sqrt{13}e^{13} + \frac{12}{187}\sqrt{38}e^{46}$	$(-\frac{14}{187}, -\frac{40}{187}, \frac{90}{187}, \frac{64}{187}, -\frac{40}{187}, \frac{12}{187}, -\frac{54}{187}, \frac{50}{187}, \frac{76}{187})$ $+ \frac{24}{187}\sqrt{78}e^3 \otimes e_7$	{123468, 1235, 145789, 1679, 2467, 2578, 3459, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{12}{187}\sqrt{142}e^{12}, \frac{24}{187}\sqrt{13}e^{14} + \frac{12}{187}\sqrt{142}e^{35},$ $\frac{24}{187}\sqrt{26}e^{13} + \frac{12}{187}\sqrt{38}e^{46}$	$(-\frac{14}{187}, \frac{116}{187}, \frac{12}{187}, -\frac{14}{187}, -\frac{40}{187}, \frac{12}{187}, \frac{6}{11}, -\frac{28}{187}, -\frac{2}{187})$ $+ \frac{24}{187}\sqrt{78}e^2 \otimes e_8$	{123459, 1246, 136789, 1578, 2357, 2679, 3468, 4589}
93:38	$0, 0, 0, 0, 0, 0, \frac{12}{187}\sqrt{38}e^{12}, \frac{24}{187}\sqrt{26}e^{14} + \frac{12}{187}\sqrt{142}e^{35},$ $\frac{24}{187}\sqrt{13}e^{13} + \frac{12}{187}\sqrt{142}e^{46}$	$(\frac{38}{187}, \frac{12}{187}, -\frac{6}{17}, \frac{12}{187}, \frac{116}{187}, -\frac{40}{187}, \frac{50}{187}, \frac{50}{187}, -\frac{28}{187})$ $+ \frac{24}{187}\sqrt{78}e^5 \otimes e_9$	{1235, 1269, 1357, 1679, 236789, 2578, 3689, 58}
93:38	$0, 0, 0, 0, 0, 0, \frac{20}{637}\sqrt{34}e^{12}, \frac{40}{637}\sqrt{31}e^{14} + \frac{20}{637}\sqrt{282}e^{35},$ $\frac{160}{637}e^{13} + \frac{20}{637}\sqrt{282}e^{46}$	$(\frac{34}{637}, \frac{64}{637}, \frac{12}{49}, \frac{122}{637}, \frac{244}{637}, \frac{24}{49}, \frac{2}{13}, -\frac{88}{637}, \frac{190}{637})$ $+ \frac{40}{637}\sqrt{186}e^6 \otimes e_8 + \frac{80}{637}\sqrt{23}e^3 \otimes e_5$	{1258, 1578, 245789, 4589}
93:38	$0, 0, 0, 0, 0, 0, \frac{20}{637}\sqrt{282}e^{12}, \frac{40}{637}\sqrt{31}e^{14} + \frac{20}{637}\sqrt{282}e^{35},$ $\frac{160}{637}e^{13} + \frac{20}{637}\sqrt{34}e^{46}$	$(-\frac{90}{637}, \frac{24}{49}, \frac{12}{49}, \frac{2}{637}, -\frac{244}{637}, \frac{64}{637}, \frac{222}{637}, -\frac{88}{637}, \frac{66}{637})$ $+ \frac{40}{637}\sqrt{186}e^2 \otimes e_8 + \frac{80}{637}\sqrt{23}e^3 \otimes e_5$	{136789, 1578, 3468, 4589}
93:38	$0, 0, 0, 0, 0, 0, \frac{60}{557}\sqrt{7}e^{12}, \frac{20}{557}\sqrt{42}e^{14} + \frac{4}{557}\sqrt{1505}e^{35},$ $\frac{36}{557}\sqrt{70}e^{13} + \frac{4}{557}\sqrt{1505}e^{46}$	$(\frac{146}{557}, -\frac{134}{557}, -\frac{148}{557}, -\frac{16}{557}, \frac{278}{557}, \frac{14}{557}, \frac{12}{557}, \frac{130}{557}, -\frac{2}{557})$ $+ \frac{8}{557}\sqrt{2065}e^1 \otimes e_2 + \frac{8}{557}\sqrt{2310}e^5 \otimes e_9$	{13456, 149, 23489, 24568}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{353}\sqrt{1245}e^{12}, \frac{4}{353}\sqrt{390}e^{14} + \frac{180}{353}e^{35},$ $\frac{4}{353}\sqrt{390}e^{13} + \frac{4}{353}\sqrt{1245}e^{46}$	$(\frac{10}{353}, \frac{114}{353}, -\frac{68}{353}, -\frac{16}{353}, \frac{62}{353}, -\frac{42}{353}, \frac{124}{353}, -\frac{6}{353}, -\frac{58}{353})$ $+ \frac{24}{353}\sqrt{65}e^2 \otimes e_8 + \frac{24}{353}\sqrt{65}e^5 \otimes e_9$	{134789, 145678, 234567, 2479}
93:38	$0, 0, 0, 0, 0, 0, \frac{6}{367}\sqrt{595}e^{12}, \frac{3}{367}\sqrt{1547}e^{14} + \frac{6}{367}\sqrt{413}e^{35},$ $\frac{3}{367}\sqrt{455}e^{13} + \frac{3}{367}\sqrt{1561}e^{46}$	$(\frac{17}{734}, \frac{43}{734}, -\frac{50}{367}, \frac{69}{734}, \frac{93}{367}, -\frac{76}{367}, \frac{30}{367}, \frac{43}{367}, -\frac{83}{734})$ $+ \frac{6}{367}\sqrt{546}e^2 \otimes e_9 + \frac{9}{367}\sqrt{273}e^5 \otimes e_7$	{124568, 134789, 2378, 5689}
93:38	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{583}e^{12}, \frac{1}{119}\sqrt{2279}e^{14} + \frac{1}{119}\sqrt{53}e^{35},$ $\frac{2}{119}\sqrt{53}e^{13} + \frac{1}{119}\sqrt{583}e^{46}$	$(-\frac{41}{238}, \frac{109}{238}, \frac{22}{119}, \frac{23}{238}, -\frac{31}{119}, -\frac{10}{119}, \frac{7}{119}, -\frac{9}{119}, \frac{3}{238})$ $+ \frac{1}{119}\sqrt{4505}e^3 \otimes e_5 + \frac{1}{119}\sqrt{6837}e^2 \otimes e_9$	{123468, 145789, 2578, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{255}e^{12}, \frac{6}{47}\sqrt{10}e^{14} + \frac{6}{47}\sqrt{5}e^{35},$ $\frac{4}{47}\sqrt{30}e^{13} + \frac{6}{47}\sqrt{5}e^{46}$	$(\frac{9}{94}, -\frac{21}{94}, \frac{8}{47}, -\frac{7}{94}, -\frac{7}{47}, \frac{16}{47}, -\frac{6}{47}, \frac{1}{47}, \frac{25}{94})$ $+ \frac{15}{47}e^6 \otimes e_8 + \frac{1}{47}\sqrt{465}e^3 \otimes e_5 + \frac{1}{47}\sqrt{645}e^1 \otimes e_2$	{14569, 256}
93:38	$0, 0, 0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{30}e^{35},$ $\frac{1}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{30}e^{46}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_9 - \frac{3}{43}\sqrt{26}e^3 \otimes e_7$	{123468, 1235, 145789, 1679, 2467, 2578, 3459, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{30}e^{35},$ $\frac{1}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{30}e^{46}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{3}{43}\sqrt{26}e^2 \otimes e_9 + \frac{3}{43}\sqrt{26}e^3 \otimes e_7$	{123468, 1235, 145789, 1679, 2467, 2578, 3459, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{1017}\sqrt{861}e^{12}, \frac{4}{1017}\sqrt{546}e^{14} + \frac{4}{1017}\sqrt{1173}e^{35},$ $\frac{4}{1017}\sqrt{78}e^{13} + \frac{4}{339}\sqrt{61}e^{46}$	$(-\frac{50}{1017}, \frac{6}{113}, \frac{28}{1017}, \frac{80}{1017}, \frac{2}{1017}, -\frac{34}{339}, \frac{4}{1017}, \frac{10}{339}, -\frac{22}{1017})$ $+ \frac{8}{1017}\sqrt{195}e^2 \otimes e_8 + \frac{8}{1017}\sqrt{273}e^3 \otimes e_7 + \frac{8}{339}\sqrt{26}e^5 \otimes e_9$	{1235, 3689}
93:38	$0, 0, 0, 0, 0, 0, \frac{20}{637}\sqrt{282}e^{12}, \frac{40}{637}\sqrt{31}e^{14} + \frac{20}{637}\sqrt{34}e^{35},$ $\frac{160}{637}e^{13} + \frac{20}{637}\sqrt{282}e^{46}$	$(-\frac{90}{637}, -\frac{60}{637}, \frac{40}{91}, \frac{250}{637}, -\frac{120}{637}, -\frac{60}{637}, -\frac{150}{637}, \frac{160}{637}, \frac{190}{637})$ $+ \frac{40}{637}\sqrt{186}e^4 \otimes e_7 + \frac{80}{637}\sqrt{23}e^3 \otimes e_5$	{136789, 1578, 3468, 4589}
93:38	$0, 0, 0, 0, 0, 0, \frac{44}{1553}\sqrt{210}e^{12}, \frac{22}{1553}\sqrt{155}e^{14} + \frac{22}{1553}\sqrt{561}e^{35},$ $\frac{22}{1553}\sqrt{622}e^{13} + \frac{88}{1553}\sqrt{37}e^{46}$	$(\frac{99}{1553}, \frac{66}{1553}, \frac{33}{1553}, -\frac{275}{1553}, -\frac{209}{1553}, \frac{407}{1553}, \frac{165}{1553}, -\frac{176}{1553}, \frac{132}{1553})$ $+ \frac{22}{1553}\sqrt{190}e^3 \otimes e_5 + \frac{44}{1553}\sqrt{186}e^2 \otimes e_8 + \frac{66}{1553}\sqrt{93}e^6 \otimes e_7$	{123569, 2479}
93:38	$0, 0, 0, 0, 0, 0, \frac{9}{128}\sqrt{10}e^{12}, \frac{1}{64}\sqrt{130}e^{14} + \frac{1}{64}\sqrt{170}e^{35},$ $\frac{1}{128}\sqrt{130}e^{13} + \frac{1}{64}\sqrt{170}e^{46}$	$(-\frac{5}{64}, \frac{1}{8}, \frac{1}{8}, \frac{3}{128}, -\frac{23}{128}, \frac{3}{128}, \frac{3}{64}, -\frac{7}{128}, \frac{3}{64})$ $+ \frac{1}{128}\sqrt{910}e^2 \otimes e_9 + \frac{1}{128}\sqrt{910}e^3 \otimes e_7 + \frac{1}{64}\sqrt{130}e^6 \otimes e_8$	{145789, 1679, 2467, 2578}
93:38	$0, 0, 0, 0, 0, 0, \frac{9}{128}\sqrt{10}e^{12}, \frac{1}{64}\sqrt{130}e^{14} + \frac{1}{64}\sqrt{170}e^{35},$ $\frac{1}{128}\sqrt{130}e^{13} + \frac{1}{64}\sqrt{170}e^{46}$	$(-\frac{5}{64}, \frac{1}{8}, \frac{1}{8}, \frac{3}{128}, -\frac{23}{128}, \frac{3}{128}, \frac{3}{64}, -\frac{7}{128}, \frac{3}{64})$ $+ \frac{1}{128}\sqrt{910}e^2 \otimes e_9 - \frac{1}{128}\sqrt{910}e^3 \otimes e_7 + \frac{1}{64}\sqrt{130}e^6 \otimes e_8$	{145789, 1679, 2467, 2578}
93:38	$0, 0, 0, 0, 0, 0, \frac{6}{23}\sqrt{10}e^{12}, \frac{1}{23}\sqrt{195}e^{14} + \frac{6}{23}\sqrt{10}e^{35},$ $\frac{1}{23}\sqrt{195}e^{13} + \frac{1}{23}\sqrt{165}e^{46}$	$(\frac{9}{46}, -\frac{17}{46}, -\frac{2}{23}, \frac{9}{46}, \frac{11}{23}, -\frac{2}{23}, -\frac{4}{23}, \frac{9}{23}, \frac{5}{46})$ $+ \frac{3}{23}\sqrt{65}e^5 \otimes e_7$	{123569, 124568, 134789, 17, 2378, 2479, 3456, 5689}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{27}\sqrt{21}e^{12}, \frac{8}{9}e^{14} + \frac{4}{27}\sqrt{21}e^{35}, \frac{8}{9}e^{13} + \frac{4}{27}\sqrt{21}e^{46}$	$(\frac{10}{27}, -\frac{14}{27}, -\frac{2}{27}, -\frac{2}{27}, \frac{10}{27}, \frac{10}{27}, -\frac{4}{27}, \frac{8}{27}, \frac{8}{27})$ $+ \frac{8}{9}\sqrt{2}e^1 \otimes e_2$	{134, 13568, 189, 2345689, 239, 256}
93:38	$0, 0, 0, 0, 0, 0, \frac{4}{145}\sqrt{533}e^{12}, \frac{2}{145}\sqrt{1271}e^{14} + \frac{2}{145}\sqrt{861}e^{35},$ $\frac{2}{145}\sqrt{574}e^{13} + \frac{4}{145}\sqrt{533}e^{46}$	$(\frac{11}{145}, -\frac{34}{145}, \frac{9}{29}, -\frac{3}{145}, -\frac{37}{145}, \frac{59}{145}, -\frac{23}{145}, \frac{8}{145}, \frac{56}{145})$ $+ \frac{2}{145}\sqrt{1394}e^3 \otimes e_5 + \frac{2}{145}\sqrt{3813}e^6 \otimes e_7$	{124568, 134789, 2378, 5689}
93:38	$0, 0, 0, 0, 0, 0, \frac{1}{44}\sqrt{130}e^{12}, \frac{1}{44}\sqrt{190}e^{14} + \frac{1}{88}\sqrt{830}e^{35},$ $\frac{1}{88}\sqrt{310}e^{13} + \frac{1}{44}\sqrt{130}e^{46}$	$(\frac{1}{16}, -\frac{17}{88}, -\frac{3}{176}, \frac{7}{88}, \frac{7}{44}, -\frac{3}{88}, -\frac{23}{176}, \frac{25}{176}, \frac{1}{22})$ $+ \frac{1}{44}\sqrt{70}e^4 \otimes e_6 + \frac{1}{88}\sqrt{930}e^3 \otimes e_7 + \frac{1}{88}\sqrt{930}e^5 \otimes e_9$	{1235, 2578}
93:38	$0, 0, 0, 0, 0, 0, \frac{24}{157}e^{12}, \frac{8}{157}\sqrt{6}e^{14} + \frac{8}{157}\sqrt{53}e^{35},$ $\frac{8}{157}\sqrt{6}e^{13} + \frac{8}{157}\sqrt{53}e^{46}$	$(\frac{28}{157}, -\frac{4}{157}, -\frac{32}{157}, -\frac{32}{157}, \frac{28}{157}, \frac{28}{157}, \frac{24}{157}, -\frac{4}{157}, -\frac{4}{157})$ $+ \frac{8}{157}\sqrt{10}e^1 \otimes e_2 + \frac{8}{157}\sqrt{66}e^5 \otimes e_9 + \frac{8}{157}\sqrt{66}e^6 \otimes e_8$	{134789, 234567}
93:39	$0, 0, 0, 0, 0, 0, \frac{70}{349}e^{12}, \frac{4}{1047}\sqrt{10815}e^{15} + \frac{14}{1047}\sqrt{165}e^{34},$ $\frac{14}{1047}\sqrt{15}e^{13} + \frac{2}{1047}\sqrt{39585}e^{46}$	$(-\frac{70}{349}, \frac{65}{349}, \frac{58}{349}, -\frac{70}{349}, \frac{58}{349}, \frac{58}{349}, -\frac{5}{349}, -\frac{12}{349}, -\frac{12}{349})$ $+ \frac{2}{1047}\sqrt{48405}e^6 \otimes e_8 + \frac{8}{1047}\sqrt{3255}e^5 \otimes e_9$	{1234789, 124567, 13489, 1456}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{406}e^{12}, \frac{2}{159}\sqrt{959}e^{15} + \frac{2}{159}\sqrt{777}e^{34},$ $\frac{2}{159}\sqrt{105}e^{13} + \frac{4}{159}\sqrt{427}e^{46}$	$(-\frac{49}{212}, \frac{5}{636}, \frac{1}{4}, -\frac{35}{318}, \frac{59}{159}, \frac{41}{318}, -\frac{71}{318}, \frac{89}{636}, \frac{1}{53})$ $+ \frac{2}{159}\sqrt{1841}e^6 \otimes e_7 + \frac{2}{159}\sqrt{2170}e^5 \otimes e_9$	{12689, 1357, 2578, 369}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{297}\sqrt{13502}e^{12}, \frac{2}{99}\sqrt{1570}e^{15} + \frac{4}{297}\sqrt{314}e^{34},$ $\frac{2}{297}\sqrt{8007}e^{13} + \frac{2}{297}\sqrt{5809}e^{46}$	$(-\frac{73}{297}, -\frac{34}{297}, \frac{37}{99}, \frac{23}{297}, \frac{23}{33}, \frac{5}{99}, -\frac{107}{297}, \frac{134}{297}, \frac{38}{297})$ $+ \frac{14}{297}\sqrt{785}e^5 \otimes e_7$	{123569, 12456, 134789, 178, 237, 2479, 34568, 5689}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{761}\sqrt{22330}e^{12}, \frac{42}{761}\sqrt{110}e^{15} + \frac{1}{761}\sqrt{71610}e^{34},$ $\frac{1}{761}\sqrt{53130}e^{13} + \frac{11}{761}\sqrt{210}e^{46}$	$(\frac{78}{761}, -\frac{307}{761}, \frac{99}{761}, \frac{135}{761}, \frac{156}{761}, \frac{42}{761}, -\frac{229}{761}, \frac{234}{761}, \frac{177}{761})$ $+ \frac{1}{761}\sqrt{271810}e^1 \otimes e_2 + \frac{3}{761}\sqrt{28490}e^5 \otimes e_7$	{134678, 16789, 23679, 2467}
93:39	$0, 0, 0, 0, 0, 0, \frac{6}{2821}\sqrt{65405}e^{12}, \frac{2}{2821}\sqrt{59055}e^{15} + \frac{4}{2821}\sqrt{94615}e^{34},$ $\frac{2}{2821}\sqrt{33655}e^{13} + \frac{11}{2821}\sqrt{50165}e^{46}$	$(\frac{411}{2821}, \frac{822}{2821}, -\frac{237}{2821}, -\frac{211}{2821}, -\frac{859}{2821}, \frac{55}{403}, \frac{1233}{2821}, -\frac{64}{403}, \frac{174}{2821})$ $+ \frac{2}{2821}\sqrt{916305}e^2 \otimes e_8 + \frac{8}{2821}\sqrt{42545}e^1 \otimes e_5$	{13789, 1478, 3568, 45689}
93:39	$0, 0, 0, 0, 0, 0, \frac{9}{65}\sqrt{2}e^{12}, \frac{9}{65}\sqrt{5}e^{15} + \frac{12}{65}\sqrt{2}e^{34},$ $\frac{3}{65}\sqrt{31}e^{13} + \frac{6}{65}\sqrt{7}e^{46}$	$(-\frac{3}{130}, -\frac{21}{130}, \frac{9}{130}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{21}{130}, \frac{3}{65})$ $+ \frac{3}{65}\sqrt{14}e^6 \otimes e_7 + \frac{3}{65}\sqrt{47}e^1 \otimes e_2 + \frac{3}{65}\sqrt{61}e^5 \otimes e_9$	{1689, 2369}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{149}\sqrt{3127}e^{12}, \frac{6}{149}\sqrt{177}e^{15} + \frac{4}{149}\sqrt{767}e^{34},$ $\frac{2}{149}\sqrt{2183}e^{13} + \frac{2}{149}\sqrt{177}e^{46}$	$(-\frac{19}{149}, \frac{96}{149}, \frac{9}{149}, -\frac{31}{149}, -\frac{3}{149}, \frac{21}{149}, \frac{77}{149}, -\frac{22}{149}, -\frac{10}{149})$ $+ \frac{10}{149}\sqrt{295}e^2 \otimes e_8$	{123459, 125, 136789, 14678, 23467, 2679, 358, 4589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12}, \frac{2}{25}\sqrt{13}e^{15} + \frac{2}{25}\sqrt{15}e^{34},$ $\frac{6}{25}e^{13} + \frac{2}{25}\sqrt{6}e^{46}$	$(\frac{2}{25}, -\frac{6}{25}, \frac{4}{25}, -\frac{3}{25}, -\frac{1}{25}, \frac{9}{25}, -\frac{4}{25}, \frac{1}{25}, \frac{6}{25})$ $+ \frac{2}{25}\sqrt{31}e^3 \otimes e_7 + \frac{2}{25}\sqrt{33}e^6 \otimes e_8 + \frac{6}{25}\sqrt{3}e^1 \otimes e_2$	{14789, 15679}
93:39	$0, 0, 0, 0, 0, 0, \frac{19}{327}\sqrt{35}e^{12}, \frac{1}{327}\sqrt{12502}e^{15} + \frac{1}{327}\sqrt{4389}e^{34},$ $\frac{1}{327}\sqrt{3990}e^{13} + \frac{7}{327}\sqrt{589}e^{46}$	$(-\frac{14}{109}, \frac{127}{327}, \frac{12}{109}, -\frac{175}{654}, -\frac{19}{654}, \frac{163}{654}, \frac{85}{327}, -\frac{103}{654}, -\frac{2}{109})$ $+ \frac{1}{327}\sqrt{36442}e^2 \otimes e_9 + \frac{1}{327}\sqrt{40565}e^6 \otimes e_8$	{23467, 23578, 4589, 69}
93:39	$0, 0, 0, 0, 0, 0, \frac{12}{59}\sqrt{17}e^{12}, \frac{1}{59}\sqrt{51}e^{15} + \frac{1}{59}\sqrt{51}e^{34},$ $\frac{5}{59}\sqrt{51}e^{13} + \frac{12}{59}\sqrt{17}e^{46}$	$(-\frac{3}{118}, -\frac{29}{118}, \frac{45}{118}, -\frac{14}{59}, \frac{10}{59}, \frac{35}{59}, -\frac{16}{59}, \frac{17}{118}, \frac{21}{59})$ $+ \frac{3}{59}\sqrt{561}e^6 \otimes e_7$	{12369, 1246, 1345789, 1578, 2357, 24579, 3468, 689}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{70}e^{12}, \frac{1}{33}\sqrt{130}e^{15} + \frac{1}{11}\sqrt{10}e^{34},$ $\frac{10}{33}e^{13} + \frac{2}{33}\sqrt{15}e^{46}$	$(0, -\frac{5}{33}, \frac{1}{33}, \frac{5}{33}, \frac{2}{11}, -\frac{4}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{1}{33})$ $+ \frac{1}{33}\sqrt{170}e^5 \otimes e_9 + \frac{2}{33}\sqrt{35}e^1 \otimes e_2$	{135, 1689, 2369, 258}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{169}\sqrt{7474}e^{12}, \frac{1}{169}\sqrt{3434}e^{15} + \frac{1}{169}\sqrt{3838}e^{34},$ $\frac{1}{169}\sqrt{3030}e^{13} + \frac{5}{169}\sqrt{202}e^{46}$	$(-\frac{15}{169}, \frac{72}{169}, -\frac{14}{169}, \frac{36}{169}, \frac{37}{169}, -\frac{5}{169}, \frac{57}{169}, \frac{22}{169}, -\frac{29}{169})$ $+ \frac{1}{169}\sqrt{17978}e^2 \otimes e_9 + \frac{2}{169}\sqrt{3030}e^4 \otimes e_6$	{145789, 1679, 3459, 3689}
93:39	$0, 0, 0, 0, 0, 0, \frac{18}{265}\sqrt{10}e^{12}, \frac{18}{265}\sqrt{3}e^{15} + \frac{6}{265}\sqrt{14}e^{34},$ $\frac{6}{265}\sqrt{22}e^{13} + \frac{48}{265}e^{46}$	$(-\frac{3}{265}, \frac{24}{265}, \frac{9}{265}, -\frac{33}{265}, -\frac{21}{265}, \frac{39}{265}, \frac{21}{265}, -\frac{24}{265}, \frac{6}{265})$ $+ \frac{6}{265}\sqrt{65}e^1 \otimes e_5 + \frac{6}{265}\sqrt{86}e^6 \otimes e_7 + \frac{6}{265}\sqrt{97}e^2 \otimes e_9$	{1479, 3569}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{121}\sqrt{185}e^{12}, \frac{1}{121}\sqrt{4551}e^{15} + \frac{1}{121}\sqrt{1406}e^{34},$ $\frac{6}{121}\sqrt{2553}e^{13} + \frac{6}{121}\sqrt{111}e^{46}$	$(-\frac{45}{242}, \frac{51}{242}, \frac{13}{242}, \frac{29}{121}, \frac{58}{121}, -\frac{45}{121}, \frac{3}{121}, \frac{71}{242}, -\frac{16}{121})$ $+ \frac{1}{121}\sqrt{11026}e^5 \otimes e_9 + \frac{1}{121}\sqrt{4773}e^4 \otimes e_6$	{126789, 1689, 2369, 3679}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{1147}\sqrt{35238}e^{12}, \frac{1}{1147}\sqrt{780270}e^{15} + \frac{1}{1147}\sqrt{541994}e^{34},$ $\frac{4}{1147}\sqrt{27687}e^{13} + \frac{2}{1147}\sqrt{168639}e^{46}$	$(-\frac{378}{1147}, \frac{351}{1147}, \frac{221}{1147}, \frac{83}{1147}, \frac{22}{1147}, -\frac{240}{1147}, -\frac{27}{1147}, \frac{304}{1147}, -\frac{157}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^5 \otimes e_9$	{12357, 126789, 135, 1689, 2369, 258, 3679, 578}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{239}\sqrt{29962}e^{12}, \frac{1}{239}\sqrt{8018}e^{15} + \frac{1}{239}\sqrt{8018}e^{34},$ $\frac{3}{239}\sqrt{2110}e^{13} + \frac{1}{239}\sqrt{29962}e^{46}$	$(-\frac{57}{239}, \frac{168}{239}, \frac{14}{239}, -\frac{12}{239}, \frac{59}{239}, -\frac{31}{239}, \frac{111}{239}, \frac{2}{239}, -\frac{43}{239})$ $+ \frac{1}{239}\sqrt{83978}e^2 \otimes e_9$	{123, 1234568, 1479, 156789, 24567, 278, 3489, 3569}
93:39	$0, 0, 0, 0, 0, 0, \frac{8}{445}\sqrt{273}e^{12}, \frac{8}{445}\sqrt{182}e^{15} + \frac{8}{445}\sqrt{182}e^{34},$ $\frac{56}{445}\sqrt{15}e^{13} + \frac{8}{445}\sqrt{273}e^{46}$	$(-\frac{119}{445}, \frac{12}{445}, \frac{117}{445}, -\frac{14}{445}, \frac{222}{445}, \frac{12}{445}, -\frac{107}{445}, \frac{103}{445}, -\frac{2}{445})$ $+ \frac{8}{445}\sqrt{1379}e^3 \otimes e_7 + \frac{8}{445}\sqrt{1379}e^5 \otimes e_9$	{123456, 14789, 245678, 349}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{130}e^{12}, \frac{3}{112}\sqrt{2}e^{15} + \frac{1}{112}\sqrt{255}e^{34},$ $\frac{1}{112}\sqrt{201}e^{13} + \frac{15}{224}\sqrt{2}e^{46}$	$(-\frac{23}{448}, \frac{27}{448}, -\frac{1}{448}, \frac{1}{448}, \frac{19}{224}, -\frac{5}{56}, \frac{1}{112}, \frac{15}{448}, -\frac{3}{56})$ $+ \frac{1}{112}\sqrt{339}e^4 \otimes e_7 + \frac{1}{224}\sqrt{1122}e^2 \otimes e_8$	{12349, 1356789, 25679, 489}
93:39	$0, 0, 0, 0, 0, 0, \frac{12}{65}\sqrt{2}e^{12}, \frac{3}{65}\sqrt{59}e^{15} + \frac{3}{65}\sqrt{46}e^{34},$ $\frac{9}{65}\sqrt{5}e^{13} + \frac{6}{65}\sqrt{7}e^{46}$	$(-\frac{3}{130}, -\frac{21}{130}, \frac{9}{130}, \frac{6}{65}, \frac{12}{65}, -\frac{3}{65}, -\frac{12}{65}, \frac{21}{130}, \frac{3}{65})$ $+ \frac{3}{13}\sqrt{3}e^5 \otimes e_9 + \frac{3}{65}\sqrt{14}e^4 \otimes e_6 + \frac{3}{65}\sqrt{61}e^1 \otimes e_2$	{135, 258}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{89}\sqrt{989}e^{12}, \frac{1}{89}\sqrt{301}e^{15} + \frac{1}{89}\sqrt{1290}e^{34},$ $\frac{1}{89}\sqrt{2193}e^{13} + \frac{1}{89}\sqrt{903}e^{46}$	$(\frac{8}{89}, -\frac{35}{89}, \frac{16}{89}, \frac{9}{178}, \frac{25}{178}, \frac{39}{178}, -\frac{27}{89}, \frac{41}{178}, \frac{24}{89})$ $+ \frac{1}{89}\sqrt{2795}e^1 \otimes e_2 + \frac{1}{89}\sqrt{4085}e^3 \otimes e_7$	{1456789, 179, 2478, 2567}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{3841}\sqrt{649702}e^{12}, \frac{2}{3841}\sqrt{304079}e^{15} + \frac{20}{3841}\sqrt{1154}e^{34},$ $\frac{6}{3841}\sqrt{63470}e^{13} + \frac{4}{3841}\sqrt{68086}e^{46}$	$(\frac{381}{3841}, \frac{1080}{3841}, -\frac{455}{3841}, \frac{63}{3841}, -\frac{773}{3841}, -\frac{137}{3841}, \frac{1461}{3841}, -\frac{392}{3841}, -\frac{74}{3841})$ $+ \frac{2}{3841}\sqrt{1079567}e^2 \otimes e_9 + \frac{2}{3841}\sqrt{943395}e^1 \otimes e_5$	{123, 1479, 24567, 3569}
93:39	$0, 0, 0, 0, 0, 0, \frac{8}{3089}\sqrt{46437}e^{12}, \frac{2}{3089}\sqrt{183729}e^{15} + \frac{2}{3089}\sqrt{15479}e^{34},$ $\frac{10}{3089}\sqrt{1346}e^{13} + \frac{4}{3089}\sqrt{101623}e^{46}$	$(\frac{681}{3089}, -\frac{792}{3089}, \frac{285}{3089}, -\frac{269}{3089}, -\frac{665}{3089}, \frac{1235}{3089}, -\frac{111}{3089}, \frac{16}{3089}, \frac{966}{3089})$ $+ \frac{2}{3089}\sqrt{1027671}e^6 \otimes e_7 + \frac{50}{3089}\sqrt{1346}e^1 \otimes e_5$	{137, 1479, 3569, 456}
93:39	$0, 0, 0, 0, 0, 0, \frac{23}{1465}\sqrt{741}e^{12}, \frac{23}{1465}\sqrt{137}e^{15} + \frac{92}{1465}\sqrt{6}e^{34},$ $\frac{23}{1465}\sqrt{7}e^{13} + \frac{276}{1465}\sqrt{3}e^{46}$	$(-\frac{299}{1465}, \frac{322}{1465}, \frac{92}{1465}, \frac{161}{1465}, \frac{552}{1465}, -\frac{368}{1465}, \frac{23}{1465}, \frac{253}{1465}, -\frac{207}{1465})$ $+ \frac{23}{1465}\sqrt{577}e^4 \otimes e_6 + \frac{46}{1465}\sqrt{278}e^2 \otimes e_9 + \frac{506}{1465}\sqrt{2}e^5 \otimes e_7$	{136789, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{1123}\sqrt{453494}e^{12}, \frac{6}{1123}\sqrt{24171}e^{15} + \frac{1}{1123}\sqrt{448890}e^{34},$ $\frac{1}{1123}\sqrt{877062}e^{13} + \frac{2}{1123}\sqrt{3453}e^{46}$	$(\frac{561}{1123}, -\frac{590}{1123}, -\frac{18}{1123}, \frac{369}{1123}, -\frac{210}{1123}, \frac{174}{1123}, -\frac{29}{1123}, \frac{351}{1123}, \frac{543}{1123})$ $+ \frac{1}{1123}\sqrt{2198410}e^1 \otimes e_2$	{1348, 1356, 14569, 189, 2345689, 239, 24, 2568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{78}e^{12}, \frac{1}{25}\sqrt{58}e^{15} + \frac{2}{25}\sqrt{15}e^{34},$ $\frac{8}{25}e^{13} + \frac{4}{25}\sqrt{2}e^{46}$	$(\frac{3}{25}, -\frac{6}{25}, \frac{2}{25}, -\frac{1}{25}, -\frac{2}{25}, \frac{6}{25}, -\frac{3}{25}, \frac{1}{25}, \frac{1}{5})$ $+ \frac{1}{25}\sqrt{10}e^6 \otimes e_8 + \frac{3}{25}\sqrt{14}e^3 \otimes e_7 + \frac{4}{25}\sqrt{6}e^1 \otimes e_5$	{2567, 34569}
93:39	$0, 0, 0, 0, 0, 0, \frac{12}{481}\sqrt{110}e^{12}, \frac{6}{481}\sqrt{15}e^{15} + \frac{12}{481}\sqrt{115}e^{34},$ $\frac{3}{481}\sqrt{1930}e^{13} + \frac{4}{481}\sqrt{1870}e^{46}$	$(-\frac{15}{481}, -\frac{60}{481}, \frac{54}{481}, -\frac{30}{481}, \frac{3}{37}, \frac{69}{481}, -\frac{75}{481}, \frac{24}{481}, \frac{3}{37})$ $+ \frac{12}{481}\sqrt{185}e^4 \otimes e_7 + \frac{3}{481}\sqrt{2110}e^6 \otimes e_8 + \frac{3}{481}\sqrt{710}e^1 \otimes e_2$	{346, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{19}{2405}\sqrt{1158}e^{12}, \frac{38}{2405}\sqrt{517}e^{15} + \frac{19}{2405}\sqrt{1482}e^{34},$ $\frac{133}{2405}\sqrt{30}e^{13} + \frac{342}{2405}\sqrt{3}e^{46}$	$(\frac{19}{2405}, -\frac{342}{2405}, \frac{38}{2405}, \frac{399}{2405}, \frac{418}{2405}, -\frac{342}{2405}, -\frac{323}{2405}, \frac{437}{2405}, \frac{57}{2405})$ $+ \frac{19}{2405}\sqrt{2130}e^1 \otimes e_2 + \frac{38}{2405}\sqrt{654}e^5 \otimes e_9 + \frac{76}{2405}\sqrt{14}e^3 \otimes e_7$	{1689, 258}
93:39	$0, 0, 0, 0, 0, 0, \frac{140}{1039}\sqrt{22}e^{12}, \frac{8}{1039}\sqrt{1155}e^{15} + \frac{12}{1039}\sqrt{2310}e^{34},$ $\frac{24}{1039}\sqrt{385}e^{13} + \frac{16}{1039}\sqrt{1155}e^{46}$	$(\frac{165}{1039}, -\frac{395}{1039}, \frac{39}{1039}, \frac{330}{1039}, \frac{204}{1039}, -\frac{126}{1039}, -\frac{230}{1039}, \frac{369}{1039}, \frac{204}{1039})$ $+ \frac{4}{1039}\sqrt{52710}e^4 \otimes e_7 + \frac{8}{1039}\sqrt{2590}e^1 \otimes e_2$	{1356789, 17, 2378, 25679}
93:39	$0, 0, 0, 0, 0, 0, \frac{4}{589}\sqrt{11521}e^{12}, \frac{164}{589}\sqrt{2}e^{15} + \frac{4}{589}\sqrt{9061}e^{34},$ $\frac{8}{589}\sqrt{1763}e^{13} + \frac{24}{589}\sqrt{205}e^{46}$	$(\frac{3}{31}, -\frac{197}{589}, \frac{35}{589}, \frac{188}{589}, \frac{166}{589}, -\frac{96}{589}, -\frac{140}{589}, \frac{223}{589}, \frac{92}{589})$ $+ \frac{4}{589}\sqrt{20705}e^4 \otimes e_7$	{12349, 124568, 1356789, 17, 2378, 25679, 3456, 489}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{283}\sqrt{70}e^{12}, \frac{1}{283}\sqrt{102}e^{15} + \frac{2}{283}\sqrt{145}e^{34},$ $\frac{3}{283}\sqrt{114}e^{13} + \frac{5}{283}\sqrt{6}e^{46}$	$(\frac{9}{566}, \frac{9}{566}, -\frac{17}{566}, \frac{11}{283}, -\frac{2}{283}, -\frac{15}{283}, \frac{9}{566}, \frac{5}{566}, -\frac{4}{283})$ $+ \frac{10}{283}\sqrt{2}e^5 \otimes e_9 + \frac{3}{283}\sqrt{62}e^2 \otimes e_8 + \frac{6}{283}\sqrt{19}e^4 \otimes e_7$	{1356789, 25679}
93:39	$0, 0, 0, 0, 0, 0, \frac{11}{189}\sqrt{77}e^{12}, \frac{11}{189}\sqrt{5}e^{15} + \frac{88}{189}e^{34},$ $\frac{11}{189}\sqrt{51}e^{13} + \frac{11}{189}\sqrt{10}e^{46}$	$(-\frac{2}{27}, -\frac{17}{189}, \frac{5}{63}, \frac{61}{189}, \frac{10}{21}, -\frac{20}{63}, -\frac{31}{189}, \frac{76}{189}, \frac{1}{189})$ $+ \frac{11}{189}\sqrt{182}e^5 \otimes e_7 + \frac{11}{63}\sqrt{17}e^4 \otimes e_6$	{123459, 136789, 2679, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{4}{765}\sqrt{5313}e^{12}, \frac{14}{765}\sqrt{77}e^{15} + \frac{14}{765}\sqrt{77}e^{34},$ $\frac{14}{765}\sqrt{22}e^{13} + \frac{4}{765}\sqrt{5313}e^{46}$	$(-\frac{49}{255}, \frac{8}{45}, \frac{43}{255}, -\frac{161}{765}, \frac{23}{153}, \frac{143}{765}, -\frac{11}{765}, -\frac{32}{765}, -\frac{2}{65})$ $+ \frac{2}{765}\sqrt{26642}e^2 \otimes e_9 + \frac{2}{765}\sqrt{27181}e^6 \otimes e_7$	{1246, 1345789, 2357, 689}
93:39	$0, 0, 0, 0, 0, 0, \frac{120}{3181}\sqrt{42}e^{12}, \frac{20}{3181}\sqrt{413}e^{15} + \frac{10}{3181}\sqrt{6594}e^{34},$ $\frac{10}{3181}\sqrt{6587}e^{13} + \frac{20}{3181}\sqrt{1855}e^{46}$	$(\frac{120}{3181}, -\frac{585}{3181}, \frac{278}{3181}, -\frac{115}{3181}, \frac{43}{3181}, \frac{513}{3181}, -\frac{465}{3181}, \frac{163}{3181}, \frac{398}{3181})$ $+ \frac{10}{3181}\sqrt{9058}e^6 \otimes e_8 + \frac{20}{3181}\sqrt{2814}e^4 \otimes e_7$	{23578, 2679, 346, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{56}\sqrt{518}e^{12}, \frac{1}{14}\sqrt{21}e^{15} + \frac{1}{28}\sqrt{70}e^{34},$ $\frac{1}{56}\sqrt{14}e^{13} + \frac{1}{28}\sqrt{14}e^{46}$	$(-\frac{1}{4}, \frac{5}{28}, \frac{5}{28}, -\frac{1}{8}, \frac{17}{56}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{658}e^2 \otimes e_9 + \frac{1}{56}\sqrt{770}e^3 \otimes e_7$	{12346, 12358, 145789, 1679, 24678, 257, 3459, 3689}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{56}\sqrt{518}e^{12}, \frac{1}{14}\sqrt{21}e^{15} + \frac{1}{28}\sqrt{70}e^{34},$ $\frac{1}{56}\sqrt{14}e^{13} + \frac{1}{28}\sqrt{14}e^{46}$	$(-\frac{1}{4}, \frac{5}{28}, \frac{5}{28}, -\frac{1}{8}, \frac{17}{56}, \frac{3}{56}, -\frac{1}{14}, \frac{3}{56}, -\frac{1}{14})$ $+ \frac{1}{56}\sqrt{658}e^2 \otimes e_9 - \frac{1}{56}\sqrt{770}e^3 \otimes e_7$	{12346, 12358, 145789, 1679, 24678, 257, 3459, 3689}
93:39	$0, 0, 0, 0, 0, 0, \frac{16}{965}\sqrt{595}e^{12}, \frac{6}{965}\sqrt{3094}e^{15} + \frac{4}{965}\sqrt{5117}e^{34},$ $\frac{8}{965}\sqrt{27251}e^{13} + \frac{8}{965}\sqrt{357}e^{46}$	$(-\frac{238}{965}, \frac{249}{965}, \frac{144}{965}, -\frac{133}{965}, \frac{249}{965}, \frac{39}{965}, \frac{11}{965}, \frac{11}{965}, -\frac{94}{965})$ $+ \frac{12}{965}\sqrt{1309}e^5 \otimes e_7 + \frac{2}{965}\sqrt{57358}e^2 \otimes e_8$	{123459, 125, 136789, 14678, 23467, 2679, 358, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{16}{965}\sqrt{595}e^{12}, \frac{6}{965}\sqrt{3094}e^{15} + \frac{4}{965}\sqrt{5117}e^{34},$ $\frac{2}{965}\sqrt{27251}e^{13} + \frac{8}{965}\sqrt{357}e^{46}$	$(-\frac{238}{965}, \frac{249}{965}, \frac{144}{965}, -\frac{133}{965}, \frac{249}{965}, \frac{39}{965}, \frac{11}{965}, \frac{11}{965}, -\frac{94}{965})$ $- \frac{12}{965}\sqrt{1309}e^5 \otimes e_7 + \frac{2}{965}\sqrt{57358}e^2 \otimes e_8$	{123459, 125, 136789, 14678, 23467, 2679, 358, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{462}{4325}\sqrt{10}e^{12}, \frac{33}{4325}\sqrt{186}e^{15} + \frac{132}{4325}e^{34},$ $\frac{33}{4325}\sqrt{1158}e^{13} + \frac{394}{4325}\sqrt{5}e^{46}$	$(\frac{231}{4325}, \frac{1122}{4325}, -\frac{198}{4325}, -\frac{429}{4325}, -\frac{858}{4325}, \frac{462}{4325}, \frac{1353}{4325}, -\frac{627}{4325}, \frac{33}{4325})$ $+ \frac{33}{4325}\sqrt{1798}e^6 \otimes e_8 + \frac{33}{4325}\sqrt{3458}e^2 \otimes e_9 + \frac{66}{4325}\sqrt{662}e^1 \otimes e_5$	{24567, 3569}
93:39	$0, 0, 0, 0, 0, 0, \frac{28}{67}\sqrt{3}e^{12}, \frac{2}{201}\sqrt{105}e^{15} + \frac{28}{201}\sqrt{3}e^{34},$ $\frac{1}{67}\sqrt{238}e^{13} + \frac{2}{201}\sqrt{2562}e^{46}$	$(\frac{5}{67}, -\frac{13}{67}, \frac{4}{67}, -\frac{1}{67}, -\frac{2}{67}, \frac{10}{67}, -\frac{8}{67}, \frac{3}{67}, \frac{9}{67})$ $+ \frac{1}{201}\sqrt{4074}e^4 \otimes e_7 + \frac{1}{201}\sqrt{546}e^1 \otimes e_5 + \frac{2}{201}\sqrt{777}e^6 \otimes e_8$	{23578, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{149}\sqrt{177}e^{12}, \frac{4}{149}\sqrt{767}e^{15} + \frac{6}{149}\sqrt{177}e^{34},$ $\frac{2}{149}\sqrt{2183}e^{13} + \frac{2}{149}\sqrt{3127}e^{46}$	$(\frac{6}{149}, \frac{21}{149}, \frac{34}{149}, -\frac{56}{149}, -\frac{28}{149}, \frac{96}{149}, \frac{27}{149}, -\frac{22}{149}, \frac{40}{149})$ $+ \frac{10}{149}\sqrt{295}e^6 \otimes e_8$	{23467, 23578, 245789, 2679, 346, 358, 4589, 69}
93:39	$0, 0, 0, 0, 0, 0, \frac{37}{6165}\sqrt{482}e^{12}, \frac{74}{6165}\sqrt{1067}e^{15} + \frac{37}{6165}\sqrt{46}e^{34},$ $\frac{37}{6165}\sqrt{1002}e^{13} + \frac{74}{6165}\sqrt{545}e^{46}$	$(\frac{37}{2055}, -\frac{1258}{6165}, \frac{962}{6165}, -\frac{629}{6165}, \frac{74}{2055}, \frac{1702}{6165}, -\frac{1147}{6165}, \frac{37}{685}, \frac{1073}{6165})$ $+ \frac{148}{2055}\sqrt{26}e^5 \otimes e_7 + \frac{37}{6165}\sqrt{3002}e^1 \otimes e_2 + \frac{74}{6165}\sqrt{1154}e^6 \otimes e_8$	{23467, 2679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{145}\sqrt{230}e^{12}, \frac{2}{87}\sqrt{51}e^{15} + \frac{1}{435}\sqrt{2010}e^{34},$ $\frac{1}{435}\sqrt{1830}e^{13} + \frac{2}{435}\sqrt{795}e^{46}$	$(-\frac{1}{29}, -\frac{2}{29}, \frac{2}{29}, -\frac{1}{29}, \frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{1}{29}, \frac{1}{29})$ $+ \frac{1}{145}\sqrt{410}e^1 \otimes e_2 + \frac{4}{435}\sqrt{210}e^6 \otimes e_8 + \frac{4}{435}\sqrt{330}e^5 \otimes e_9$	{2369, 258}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{287}\sqrt{2513}e^{12}, \frac{1}{287}\sqrt{19027}e^{15} + \frac{2}{287}\sqrt{20822}e^{34},$ $\frac{1}{287}\sqrt{13283}e^{13} + \frac{4}{287}\sqrt{718}e^{46}$	$(\frac{9}{41}, \frac{18}{287}, -\frac{48}{287}, \frac{187}{287}, \frac{76}{287}, -\frac{172}{287}, \frac{81}{287}, \frac{139}{287}, \frac{15}{287})$ $+ \frac{5}{287}\sqrt{6821}e^4 \otimes e_6$	{12458, 126, 14578, 167, 23457, 23678, 345, 368}
93:39	$0, 0, 0, 0, 0, 0, \frac{12}{1399}\sqrt{2310}e^{12}, \frac{8}{1399}\sqrt{1995}e^{15} + \frac{20}{1399}\sqrt{406}e^{34},$ $\frac{8}{1399}\sqrt{1995}e^{13} + \frac{16}{1399}\sqrt{1995}e^{46}$	$(-\frac{135}{1399}, \frac{135}{1399}, \frac{131}{1399}, \frac{290}{1399}, \frac{556}{1399}, -\frac{294}{1399}, -\frac{270}{1399}, \frac{421}{1399}, -\frac{4}{1399})$ $+ \frac{108}{1399}\sqrt{70}e^4 \otimes e_7 + \frac{8}{1399}\sqrt{8890}e^5 \otimes e_9$	{136789, 157, 23578, 2679}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{221}\sqrt{851}e^{12}, \frac{3}{221}\sqrt{805}e^{15} + \frac{2}{221}\sqrt{3243}e^{34},$ $\frac{3}{221}\sqrt{391}e^{13} + \frac{2}{221}\sqrt{1173}e^{46}$	$(-\frac{11}{221}, -\frac{38}{221}, \frac{20}{221}, \frac{3}{17}, \frac{70}{221}, -\frac{30}{221}, -\frac{49}{221}, \frac{59}{221}, \frac{9}{221})$ $+ \frac{1}{221}\sqrt{11247}e^4 \otimes e_6 + \frac{2}{221}\sqrt{4209}e^3 \otimes e_7$	{1234, 123568, 2478, 2567}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{1157}\sqrt{823386}e^{12}, \frac{4}{1157}\sqrt{26439}e^{15} + \frac{5}{1157}\sqrt{2518}e^{34},$ $\frac{4}{1157}\sqrt{54137}e^{13} + \frac{1}{1157}\sqrt{148562}e^{46}$	$(\frac{654}{1157}, -\frac{135}{1157}, -\frac{177}{1157}, \frac{226}{1157}, -\frac{605}{1157}, \frac{251}{1157}, \frac{519}{1157}, \frac{49}{1157}, \frac{477}{1157})$ $+ \frac{1}{1157}\sqrt{2429870}e^1 \otimes e_5$	{1234, 129, 1347, 179, 2345679, 2567, 34569, 56}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{85}\sqrt{38}e^{12}, \frac{3}{85}\sqrt{154}e^{15} + \frac{6}{85}e^{34},$ $\frac{3}{85}\sqrt{30}e^{13} + \frac{6}{85}\sqrt{2}e^{46}$	$(\frac{9}{85}, -\frac{27}{85}, \frac{3}{85}, \frac{24}{85}, \frac{18}{85}, -\frac{12}{85}, -\frac{18}{85}, \frac{27}{85}, \frac{12}{85})$ $+ \frac{12}{85}\sqrt{15}e^5 \otimes e_7 + \frac{3}{85}\sqrt{146}e^4 \otimes e_6 + \frac{6}{85}\sqrt{59}e^1 \otimes e_2$	{14789, 23479}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{1349}\sqrt{477386}e^{12}, \frac{12}{1349}\sqrt{1281}e^{15} + \frac{1}{1349}\sqrt{287798}e^{34},$ $\frac{28}{1349}\sqrt{122}e^{13} + \frac{1}{1349}\sqrt{195566}e^{46}$	$(\frac{18}{71}, -\frac{423}{1349}, -\frac{89}{1349}, \frac{346}{1349}, -\frac{85}{1349}, -\frac{93}{1349}, -\frac{81}{1349}, \frac{257}{1349}, \frac{253}{1349})$ $+ \frac{1}{1349}\sqrt{373198}e^1 \otimes e_5 + \frac{4}{1349}\sqrt{41419}e^4 \otimes e_7$	{12349, 17, 25679, 3456}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{2337}e^{12}, \frac{1}{113}\sqrt{533}e^{15} + \frac{2}{113}\sqrt{902}e^{34},$ $\frac{1}{113}\sqrt{1763}e^{13} + \frac{2}{113}\sqrt{82}e^{46}$	$(-\frac{3}{113}, \frac{42}{113}, -\frac{12}{113}, \frac{13}{113}, \frac{4}{113}, -\frac{28}{113}, \frac{39}{113}, \frac{1}{113}, -\frac{15}{113})$ $+ \frac{1}{113}\sqrt{3485}e^4 \otimes e_6 + \frac{2}{113}\sqrt{1230}e^2 \otimes e_8$	{1256, 1478, 2347, 3568}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2590}e^{12}, \frac{1}{121}\sqrt{2553}e^{15} + \frac{3}{121}\sqrt{185}e^{34},$ $\frac{1}{121}\sqrt{555}e^{13} + \frac{6}{121}\sqrt{111}e^{46}$	$(\frac{93}{484}, -\frac{203}{484}, \frac{87}{484}, -\frac{3}{242}, -\frac{3}{121}, \frac{93}{242}, -\frac{5}{22}, \frac{81}{484}, \frac{45}{121})$ $+ \frac{1}{121}\sqrt{7030}e^1 \otimes e_2 + \frac{1}{121}\sqrt{8769}e^6 \otimes e_7$	{1357, 14579, 2345789, 2578}
93:39	$0, 0, 0, 0, 0, 0, \frac{117}{545}\sqrt{3}e^{12}, \frac{13}{545}\sqrt{213}e^{15} + \frac{26}{545}\sqrt{103}e^{34},$ $\frac{39}{545}\sqrt{15}e^{13} + \frac{26}{545}\sqrt{33}e^{46}$	$(-\frac{39}{545}, -\frac{78}{545}, \frac{52}{545}, \frac{91}{545}, \frac{182}{545}, -\frac{78}{545}, -\frac{117}{545}, \frac{143}{545}, \frac{13}{545})$ $+ \frac{104}{545}e^5 \otimes e_9 + \frac{13}{109}\sqrt{15}e^4 \otimes e_6 + \frac{26}{545}\sqrt{141}e^3 \otimes e_7$	{123568, 2567}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{21}e^{34},$ $\frac{4}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{14}e^{46}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $- \frac{1}{35}\sqrt{182}e^3 \otimes e_7 + \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{42}e^2 \otimes e_9$	{12346, 12358, 145789, 1679}
93:39	$0, 0, 0, 0, 0, 0, \frac{3}{35}\sqrt{14}e^{12}, \frac{1}{35}\sqrt{42}e^{15} + \frac{2}{35}\sqrt{21}e^{34},$ $\frac{4}{35}\sqrt{14}e^{13} + \frac{2}{35}\sqrt{14}e^{46}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{35}\sqrt{182}e^3 \otimes e_7 + \frac{1}{5}\sqrt{2}e^6 \otimes e_8 + \frac{2}{35}\sqrt{42}e^2 \otimes e_9$	{12346, 12358, 145789, 1679}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{283}\sqrt{2805}e^{12}, \frac{4}{283}\sqrt{935}e^{15} + \frac{2}{283}\sqrt{2805}e^{34},$ $\frac{2}{283}\sqrt{935}e^{13} + \frac{10}{283}\sqrt{187}e^{46}$	$(\frac{66}{283}, \frac{3}{283}, \frac{14}{283}, -\frac{52}{283}, -\frac{104}{283}, \frac{132}{283}, \frac{69}{283}, -\frac{38}{283}, \frac{80}{283})$ $+ \frac{2}{283}\sqrt{12835}e^6 \otimes e_8 + \frac{8}{283}\sqrt{510}e^1 \otimes e_5$	{23578, 245789, 358, 4589}
93:39	$0, 0, 0, 0, 0, 0, \frac{30}{3209}\sqrt{2926}e^{12}, \frac{42}{3209}\sqrt{462}e^{15} + \frac{12}{3209}\sqrt{4466}e^{34},$ $\frac{6}{3209}\sqrt{5005}e^{13} + \frac{6}{3209}\sqrt{52899}e^{46}$	$(-\frac{959}{3209}, \frac{944}{3209}, \frac{517}{3209}, -\frac{105}{3209}, \frac{1371}{3209}, -\frac{337}{3209}, -\frac{15}{3209}, \frac{412}{3209}, -\frac{442}{3209})$ $+ \frac{12}{3209}\sqrt{29722}e^2 \otimes e_9 + \frac{6}{3209}\sqrt{101255}e^5 \otimes e_7$	{1235, 16789, 2467, 34589}
93:39	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{110}e^{12}, \frac{1}{231}\sqrt{1230}e^{15} + \frac{5}{231}\sqrt{42}e^{34},$ $\frac{1}{231}\sqrt{1230}e^{13} + \frac{1}{231}\sqrt{2370}e^{46}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{231}\sqrt{1410}e^5 \otimes e_9 + \frac{3}{77}\sqrt{30}e^4 \otimes e_7 + \frac{5}{231}\sqrt{102}e^6 \otimes e_8$	{23578, 2679}
93:39	$0, 0, 0, 0, 0, 0, \frac{2}{1147}\sqrt{168639}e^{12}, \frac{1}{1147}\sqrt{541994}e^{15} + \frac{1}{1147}\sqrt{780270}e^{34},$ $\frac{4}{1147}\sqrt{27687}e^{13} + \frac{3}{1147}\sqrt{35238}e^{46}$	$(-\frac{181}{1147}, -\frac{240}{1147}, \frac{418}{1147}, -\frac{114}{1147}, \frac{485}{1147}, \frac{351}{1147}, -\frac{421}{1147}, \frac{304}{1147}, \frac{237}{1147})$ $+ \frac{1}{1147}\sqrt{1652830}e^3 \otimes e_7$	{1234, 123568, 1456789, 179, 2478, 2567, 34569, 389}
93:39	$0, 0, 0, 0, 0, 0, \frac{54}{1597}\sqrt{109}e^{12}, \frac{9}{1597}\sqrt{1290}e^{15} + \frac{18}{1597}\sqrt{429}e^{34},$ $\frac{270}{1597}e^{13} + \frac{9}{1597}\sqrt{2922}e^{46}$	$(-\frac{144}{1597}, \frac{108}{1597}, \frac{9}{1597}, \frac{207}{1597}, \frac{360}{1597}, -\frac{342}{1597}, -\frac{36}{1597}, \frac{216}{1597}, -\frac{135}{1597})$ $+ \frac{9}{1597}\sqrt{3702}e^2 \otimes e_9 + \frac{9}{1597}\sqrt{5010}e^4 \otimes e_7$	{124568, 1356789, 2378, 489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:39	$0, 0, 0, 0, 0, \frac{54}{149}e^{12}, \frac{2}{149}\sqrt{579}e^{15} + \frac{12}{149}\sqrt{15}e^{34},$ $\frac{2}{149}\sqrt{627}e^{13} + \frac{8}{149}\sqrt{21}e^{46}$	$(\frac{19}{149}, -\frac{38}{149}, \frac{11}{149}, -\frac{3}{149}, -\frac{11}{149}, \frac{33}{149}, -\frac{19}{149}, \frac{8}{149}, \frac{30}{149})$ $+ \frac{2}{149}\sqrt{1173}e^3 \otimes e_7 + \frac{2}{149}\sqrt{903}e^1 \otimes e_5$	{1234, 179, 2567, 34569}
93:39	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{285}e^{12}, \frac{9}{505}\sqrt{161}e^{15} + \frac{18}{505}\sqrt{62}e^{34},$ $\frac{9}{505}\sqrt{211}e^{13} + \frac{18}{505}\sqrt{3}e^{46}$	$(-\frac{81}{505}, \frac{108}{505}, \frac{18}{505}, \frac{9}{505}, \frac{108}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $+ \frac{18}{505}\sqrt{107}e^2 \otimes e_8 - \frac{36}{505}\sqrt{19}e^5 \otimes e_7 + \frac{9}{505}\sqrt{205}e^4 \otimes e_6$	{123459, 136789, 2679, 4589}
93:39	$0, 0, 0, 0, 0, \frac{9}{505}\sqrt{285}e^{12}, \frac{9}{505}\sqrt{161}e^{15} + \frac{18}{505}\sqrt{62}e^{34},$ $\frac{9}{505}\sqrt{211}e^{13} + \frac{18}{505}\sqrt{3}e^{46}$	$(-\frac{81}{505}, \frac{108}{505}, \frac{18}{505}, \frac{9}{505}, \frac{108}{505}, -\frac{72}{505}, \frac{27}{505}, \frac{27}{505}, -\frac{63}{505})$ $+ \frac{18}{505}\sqrt{107}e^2 \otimes e_8 + \frac{36}{505}\sqrt{19}e^5 \otimes e_7 + \frac{9}{505}\sqrt{205}e^4 \otimes e_6$	{123459, 136789, 2679, 4589}
93:39	$0, 0, 0, 0, 0, \frac{8}{175}\sqrt{35}e^{12}, \frac{1}{175}\sqrt{2590}e^{15} + \frac{2}{175}\sqrt{70}e^{34},$ $\frac{1}{175}\sqrt{1330}e^{13} + \frac{2}{175}\sqrt{805}e^{46}$	$(-\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{1}{175}\sqrt{3290}e^2 \otimes e_9 + \frac{1}{175}\sqrt{4270}e^6 \otimes e_8 + \frac{2}{175}\sqrt{910}e^5 \otimes e_7$	{23467, 4589}
93:39	$0, 0, 0, 0, 0, \frac{18}{3461}\sqrt{3178}e^{12}, \frac{36}{3461}\sqrt{2065}e^{15} + \frac{252}{3461}\sqrt{10}e^{34},$ $\frac{18}{3461}\sqrt{5691}e^{13} + \frac{36}{3461}\sqrt{6090}e^{46}$	$(-\frac{476}{3461}, -\frac{109}{3461}, \frac{878}{3461}, -\frac{805}{3461}, \frac{549}{3461}, \frac{1207}{3461}, -\frac{585}{3461}, \frac{73}{3461}, \frac{402}{3461})$ $+ \frac{36}{3461}\sqrt{2422}e^5 \otimes e_7 + \frac{36}{3461}\sqrt{3031}e^6 \otimes e_8$	{23467, 2679, 358, 4589}
93:39	$0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{15}e^{15} + \frac{2}{25}\sqrt{22}e^{34},$ $\frac{6}{25}e^{13} + \frac{2}{25}\sqrt{6}e^{46}$	$(-\frac{3}{25}, \frac{9}{25}, -\frac{1}{25}, \frac{2}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{1}{25}, -\frac{2}{25})$ $+ \frac{2}{25}\sqrt{22}e^5 \otimes e_9 + \frac{2}{25}\sqrt{42}e^2 \otimes e_8 + \frac{6}{25}\sqrt{3}e^4 \otimes e_6$	{136789, 2679}
93:39	$0, 0, 0, 0, 0, \frac{3}{43}\sqrt{51}e^{12}, \frac{3}{43}\sqrt{37}e^{15} + \frac{6}{43}\sqrt{13}e^{34},$ $\frac{3}{43}\sqrt{35}e^{13} + \frac{6}{43}\sqrt{5}e^{46}$	$(\frac{17}{43}, -\frac{4}{43}, -\frac{10}{43}, \frac{17}{43}, -\frac{10}{43}, -\frac{10}{43}, \frac{13}{43}, \frac{7}{43}, \frac{7}{43})$ $+ \frac{3}{43}\sqrt{107}e^4 \otimes e_6 + \frac{6}{43}\sqrt{31}e^1 \otimes e_5$	{1234, 1347, 2567, 56}
93:39	$0, 0, 0, 0, 0, \frac{9}{5813}\sqrt{3462}e^{12}, \frac{9}{5813}\sqrt{94}e^{15} + \frac{9}{5813}\sqrt{2386}e^{34},$ $\frac{63}{5813}\sqrt{42}e^{13} + \frac{9}{5813}\sqrt{3766}e^{46}$	$(-\frac{315}{5813}, \frac{36}{5813}, \frac{270}{5813}, -\frac{198}{5813}, \frac{387}{5813}, \frac{153}{5813}, -\frac{279}{5813}, \frac{72}{5813}, -\frac{45}{5813})$ $+ \frac{18}{5813}\sqrt{1222}e^4 \otimes e_7 + \frac{54}{5813}\sqrt{89}e^6 \otimes e_8 + \frac{9}{5813}\sqrt{2666}e^2 \otimes e_9$	{23578, 4589}
93:39	$0, 0, 0, 0, 0, \frac{29}{333}\sqrt{10}e^{12}, \frac{2}{333}\sqrt{8555}e^{15} + \frac{5}{333}\sqrt{58}e^{34},$ $\frac{29}{333}\sqrt{870}e^{13} + \frac{8}{333}\sqrt{290}e^{46}$	$(\frac{25}{111}, -\frac{70}{333}, \frac{26}{333}, -\frac{35}{333}, -\frac{28}{111}, \frac{136}{333}, \frac{5}{333}, -\frac{1}{37}, \frac{101}{333})$ $+ \frac{1}{333}\sqrt{38570}e^1 \otimes e_2 + \frac{2}{333}\sqrt{12035}e^6 \otimes e_8$	{13456, 138, 1489, 1569}
93:39	$0, 0, 0, 0, 0, \frac{2}{1047}\sqrt{39585}e^{12}, \frac{14}{1047}\sqrt{165}e^{15} + \frac{4}{1047}\sqrt{10815}e^{34},$ $\frac{14}{1047}\sqrt{15}e^{13} + \frac{70}{349}e^{46}$	$(-\frac{203}{1047}, \frac{58}{349}, \frac{181}{1047}, -\frac{217}{1047}, \frac{167}{1047}, \frac{65}{349}, -\frac{29}{1047}, -\frac{12}{349}, -\frac{22}{1047})$ $+ \frac{2}{1047}\sqrt{48405}e^2 \otimes e_8 + \frac{8}{1047}\sqrt{3255}e^3 \otimes e_7$	{123469, 14578, 2579, 368}
93:39	$0, 0, 0, 0, 0, \frac{3}{155}\sqrt{258}e^{12}, \frac{3}{155}\sqrt{546}e^{15} + \frac{6}{155}\sqrt{69}e^{34},$ $\frac{3}{155}\sqrt{70}e^{13} + \frac{3}{155}\sqrt{42}e^{46}$	$(\frac{57}{155}, -\frac{51}{155}, -\frac{21}{155}, \frac{72}{155}, -\frac{6}{155}, -\frac{36}{155}, \frac{6}{155}, \frac{51}{155}, \frac{36}{155})$ $+ \frac{3}{155}\sqrt{1434}e^4 \otimes e_6 + \frac{6}{155}\sqrt{471}e^1 \otimes e_2$	{1345, 1368, 2458, 26}
93:40	$0, 0, 0, 0, 0, \frac{2}{3529}\sqrt{297755}e^{12}, \frac{4}{3529}\sqrt{120910}e^{13} + \frac{2}{3529}\sqrt{371770}e^{45},$ $\frac{10}{3529}\sqrt{4633}e^{23} + \frac{4}{3529}\sqrt{206790}e^{46}$	$(\frac{849}{3529}, \frac{24}{3529}, -\frac{305}{3529}, \frac{837}{3529}, -\frac{293}{3529}, -\frac{1118}{3529}, \frac{873}{3529}, \frac{544}{3529}, -\frac{281}{3529})$ $+ \frac{2}{3529}\sqrt{1065590}e^1 \otimes e_9 + \frac{2}{3529}\sqrt{732805}e^4 \otimes e_5$	{13467, 1357, 49, 569}
93:40	$0, 0, 0, 0, 0, \frac{4}{73}\sqrt{34}e^{12}, \frac{5}{73}\sqrt{17}e^{13} + \frac{1}{73}\sqrt{238}e^{45},$ $\frac{5}{73}\sqrt{17}e^{23} + \frac{1}{73}\sqrt{238}e^{46}$	$(\frac{12}{73}, \frac{12}{73}, -\frac{17}{73}, -\frac{6}{73}, \frac{1}{73}, \frac{1}{73}, \frac{24}{73}, -\frac{5}{73}, -\frac{5}{73})$ $+ \frac{1}{73}\sqrt{1105}e^1 \otimes e_9 - \frac{1}{73}\sqrt{1105}e^2 \otimes e_8$	{123, 123456, 14678, 1578, 3489, 35689}
93:40	$0, 0, 0, 0, 0, \frac{4}{73}\sqrt{34}e^{12}, \frac{5}{73}\sqrt{17}e^{13} + \frac{1}{73}\sqrt{238}e^{45},$ $\frac{5}{73}\sqrt{17}e^{23} + \frac{1}{73}\sqrt{238}e^{46}$	$(\frac{12}{73}, \frac{12}{73}, -\frac{17}{73}, -\frac{6}{73}, \frac{1}{73}, \frac{1}{73}, \frac{24}{73}, -\frac{5}{73}, -\frac{5}{73})$ $+ \frac{1}{73}\sqrt{1105}e^1 \otimes e_9 + \frac{1}{73}\sqrt{1105}e^2 \otimes e_8$	{123, 123456, 14678, 1578, 3489, 35689}
93:40	$0, 0, 0, 0, 0, \frac{4}{2931}\sqrt{36386}e^{12}, \frac{4}{2931}\sqrt{9821}e^{13} + \frac{28}{2931}\sqrt{1886}e^{45},$ $\frac{28}{2931}\sqrt{2921}e^{23} + \frac{4}{977}\sqrt{1771}e^{46}$	$(\frac{170}{2931}, -\frac{260}{977}, \frac{226}{977}, -\frac{338}{2931}, \frac{1186}{2931}, \frac{236}{2931}, -\frac{610}{2931}, \frac{848}{2931}, -\frac{34}{977})$ $+ \frac{20}{2931}\sqrt{9177}e^5 \otimes e_9 + \frac{4}{2931}\sqrt{188531}e^3 \otimes e_7$	{12358, 14567, 24789, 369}
93:40	$0, 0, 0, 0, 0, \frac{6}{169}\sqrt{39}e^{12}, \frac{4}{169}\sqrt{130}e^{13} + \frac{2}{169}\sqrt{65}e^{45},$ $\frac{4}{169}\sqrt{39}e^{23} + \frac{14}{169}\sqrt{13}e^{46}$	$(\frac{1}{13}, 0, -\frac{1}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{2}{13}, \frac{1}{13}, 0, -\frac{1}{13})$ $+ \frac{2}{13}\sqrt{5}e^1 \otimes e_9 + \frac{2}{169}\sqrt{377}e^5 \otimes e_7 + \frac{4}{169}\sqrt{195}e^6 \otimes e_8$	{1258, 234789}
93:40	$0, 0, 0, 0, 0, \frac{30}{479}\sqrt{7}e^{12}, \frac{18}{479}\sqrt{35}e^{13} + \frac{84}{479}\sqrt{5}e^{45},$ $\frac{126}{479}\sqrt{2}e^{23} + \frac{12}{479}\sqrt{21}e^{46}$	$(\frac{60}{479}, -\frac{111}{479}, \frac{75}{479}, \frac{45}{479}, \frac{90}{479}, -\frac{81}{479}, -\frac{51}{479}, \frac{135}{479}, -\frac{36}{479})$ $+ \frac{12}{479}\sqrt{203}e^3 \otimes e_7 + \frac{42}{479}\sqrt{19}e^4 \otimes e_6 + \frac{6}{479}\sqrt{1330}e^5 \otimes e_9$	{123568, 1457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:40	$0, 0, 0, 0, 0, 0, \frac{1}{387}\sqrt{61754}e^{12}, \frac{2}{387}\sqrt{15639}e^{13} + \frac{2}{387}\sqrt{401}e^{45},$ $\frac{2}{387}\sqrt{15639}e^{23} + \frac{2}{387}\sqrt{401}e^{46}$	$(-\frac{85}{387}, -\frac{85}{387}, \frac{77}{129}, \frac{74}{387}, \frac{8}{43}, \frac{8}{43}, -\frac{170}{387}, \frac{146}{387}, \frac{146}{387})$ $+ \frac{1}{387}\sqrt{254234}e^3 \otimes e_7$	{1234, 12356, 14578, 1678, 345689, 389}
93:40	$0, 0, 0, 0, 0, 0, \frac{6}{223}\sqrt{935}e^{12}, \frac{11}{223}\sqrt{170}e^{13} + \frac{1}{223}\sqrt{37774}e^{45},$ $\frac{4}{223}\sqrt{187}e^{23} + \frac{5}{223}\sqrt{374}e^{46}$	$(-\frac{1}{223}, -\frac{64}{223}, \frac{81}{223}, -\frac{42}{223}, \frac{122}{223}, \frac{59}{223}, -\frac{65}{223}, \frac{80}{223}, \frac{17}{223})$ $+ \frac{3}{223}\sqrt{7854}e^5 \otimes e_7$	{123568, 124569, 1346789, 167, 2367, 246789, 34569, 568}
93:40	$0, 0, 0, 0, 0, 0, \frac{4}{2947}\sqrt{71102}e^{12}, \frac{8}{2947}\sqrt{4161}e^{13} + \frac{4}{2947}\sqrt{10293}e^{45},$ $\frac{4}{2947}\sqrt{14819}e^{23} + \frac{4}{2947}\sqrt{73219}e^{46}$	$(\frac{394}{2947}, -\frac{468}{2947}, \frac{278}{2947}, \frac{510}{2947}, \frac{162}{2947}, -\frac{100}{421}, -\frac{74}{2947}, \frac{96}{421}, -\frac{190}{2947})$ $+ \frac{4}{2947}\sqrt{94389}e^1 \otimes e_9 + \frac{4}{2947}\sqrt{98623}e^4 \otimes e_7$	{12468, 137, 2356789, 459}
93:40	$0, 0, 0, 0, 0, 0, \frac{198}{4121}\sqrt{58}e^{12}, \frac{165}{4121}\sqrt{30}e^{13} + \frac{33}{4121}\sqrt{2362}e^{45},$ $\frac{33}{4121}\sqrt{458}e^{23} + \frac{99}{4121}\sqrt{6}e^{46}$	$(\frac{660}{4121}, -\frac{924}{4121}, \frac{495}{4121}, \frac{330}{4121}, \frac{825}{4121}, -\frac{759}{4121}, -\frac{264}{4121}, \frac{1155}{4121}, -\frac{33}{317})$ $+ \frac{33}{4121}\sqrt{2270}e^4 \otimes e_6 + \frac{33}{4121}\sqrt{3314}e^5 \otimes e_7 + \frac{462}{4121}\sqrt{10}e^1 \otimes e_9$	{123568, 167}
93:40	$0, 0, 0, 0, 0, 0, \frac{6}{91}\sqrt{39}e^{12}, \frac{1}{91}\sqrt{390}e^{13} + \frac{5}{91}\sqrt{78}e^{45},$ $\frac{4}{91}\sqrt{39}e^{23} + \frac{1}{91}\sqrt{858}e^{46}$	$(-\frac{1}{7}, 0, \frac{1}{7}, -\frac{2}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{1}{7})$ $+ \frac{1}{91}\sqrt{3198}e^5 \otimes e_7 + \frac{4}{91}\sqrt{195}e^6 \otimes e_8$	{1258, 14789, 234789, 358}
93:40	$0, 0, 0, 0, 0, 0, \frac{3}{139}\sqrt{341}e^{12}, \frac{1}{278}\sqrt{24211}e^{13} + \frac{1}{278}\sqrt{23870}e^{45},$ $\frac{1}{278}\sqrt{27962}e^{23} + \frac{1}{139}\sqrt{20119}e^{46}$	$(-\frac{5}{278}, \frac{143}{556}, \frac{27}{139}, \frac{195}{278}, -\frac{73}{139}, -\frac{1}{4}, \frac{133}{556}, \frac{49}{278}, \frac{251}{556})$ $+ \frac{3}{278}\sqrt{17391}e^4 \otimes e_5$	{12349, 123569, 13467, 1357, 2467, 257, 49, 569}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{30}e^{12}, \frac{1}{77}\sqrt{10}e^{13} + \frac{1}{77}\sqrt{195}e^{45},$ $\frac{1}{77}\sqrt{10}e^{23} + \frac{1}{77}\sqrt{195}e^{46}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{215}e^5 \otimes e_9 - \frac{1}{77}\sqrt{215}e^6 \otimes e_8 + \frac{2}{77}\sqrt{70}e^4 \otimes e_7$	{123489, 12456, 13578, 1679, 3456, 489}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{30}e^{12}, \frac{1}{77}\sqrt{10}e^{13} + \frac{1}{77}\sqrt{195}e^{45},$ $\frac{1}{77}\sqrt{10}e^{23} + \frac{1}{77}\sqrt{195}e^{46}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $- \frac{1}{77}\sqrt{215}e^5 \otimes e_9 + \frac{1}{77}\sqrt{215}e^6 \otimes e_8 + \frac{2}{77}\sqrt{70}e^4 \otimes e_7$	{123489, 12456, 13578, 1679, 3456, 489}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{30}e^{12}, \frac{1}{77}\sqrt{10}e^{13} + \frac{1}{77}\sqrt{195}e^{45},$ $\frac{1}{77}\sqrt{10}e^{23} + \frac{1}{77}\sqrt{195}e^{46}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{215}e^5 \otimes e_9 + \frac{1}{77}\sqrt{215}e^6 \otimes e_8 + \frac{2}{77}\sqrt{70}e^4 \otimes e_7$	{123489, 12456, 13578, 1679, 23679, 2578, 3456, 489}
93:40	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{86390}e^{12}, \frac{53}{383}\sqrt{10}e^{13} + \frac{1}{383}\sqrt{57770}e^{45},$ $\frac{53}{383}\sqrt{10}e^{23} + \frac{1}{383}\sqrt{57770}e^{46}$	$(-\frac{50}{383}, -\frac{50}{383}, \frac{166}{383}, \frac{165}{383}, -\frac{49}{383}, -\frac{49}{383}, -\frac{100}{383}, \frac{116}{383}, \frac{116}{383})$ $+ \frac{1}{383}\sqrt{171190}e^4 \otimes e_7$	{123489, 12456, 13578, 1679, 3456, 489}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{1145}\sqrt{2913}e^{12}, \frac{12}{1145}\sqrt{2913}e^{13} + \frac{2}{1145}\sqrt{203910}e^{45},$ $\frac{1}{1145}\sqrt{204881}e^{23} + \frac{1}{1145}\sqrt{196142}e^{46}$	$(\frac{82}{229}, -\frac{228}{1145}, -\frac{18}{1145}, -\frac{333}{1145}, \frac{145}{229}, \frac{87}{1145}, \frac{182}{1145}, \frac{392}{1145}, -\frac{246}{1145})$ $+ \frac{1}{1145}\sqrt{1858494}e^5 \otimes e_9$	{123578, 12679, 13489, 1456, 23456, 2489, 3679, 578}
93:40	$0, 0, 0, 0, 0, 0, \frac{38}{3561}\sqrt{35}e^{12}, \frac{14}{3561}\sqrt{9595}e^{13} + \frac{44}{3561}\sqrt{1995}e^{45},$ $\frac{38}{3561}\sqrt{653030}e^{23} + \frac{4}{3561}\sqrt{14630}e^{46}$	$(\frac{340}{1187}, -\frac{223}{1187}, \frac{19}{1187}, \frac{359}{3561}, \frac{718}{3561}, -\frac{971}{3561}, \frac{117}{1187}, \frac{359}{1187}, -\frac{204}{1187})$ $+ \frac{2}{3561}\sqrt{1222270}e^5 \otimes e_9 + \frac{2}{3561}\sqrt{925015}e^4 \otimes e_6$	{123568, 1457, 23457, 568}
93:40	$0, 0, 0, 0, 0, 0, \frac{18}{8873}\sqrt{1114}e^{12}, \frac{9}{8873}\sqrt{2962}e^{13} + \frac{9}{8873}\sqrt{3254}e^{45},$ $\frac{9}{8873}\sqrt{2598}e^{23} + \frac{27}{8873}\sqrt{874}e^{46}$	$(\frac{36}{8873}, -\frac{396}{8873}, \frac{351}{8873}, \frac{234}{8873}, \frac{153}{8873}, -\frac{279}{8873}, -\frac{360}{8873}, \frac{387}{8873}, -\frac{45}{8873})$ $+ \frac{18}{8873}\sqrt{1606}e^1 \otimes e_9 + \frac{27}{8873}\sqrt{446}e^4 \otimes e_5 + \frac{9}{8873}\sqrt{6242}e^6 \otimes e_7$	{1357, 569}
93:40	$0, 0, 0, 0, 0, 0, \frac{18}{3509}\sqrt{3309}e^{12}, \frac{18}{3509}\sqrt{1905}e^{13} + \frac{18}{3509}\sqrt{1857}e^{45},$ $\frac{54}{3509}\sqrt{145}e^{23} + \frac{702}{3509}\sqrt{3}e^{46}$	$(\frac{216}{3509}, -\frac{369}{3509}, \frac{9}{319}, -\frac{603}{3509}, \frac{918}{3509}, \frac{333}{3509}, -\frac{153}{3509}, \frac{315}{3509}, -\frac{270}{3509})$ $+ \frac{18}{3509}\sqrt{4665}e^6 \otimes e_7 + \frac{18}{3509}\sqrt{4965}e^1 \otimes e_9$	{124568, 1357, 2345789, 569}
93:40	$0, 0, 0, 0, 0, 0, \frac{20}{357}\sqrt{5}e^{12}, \frac{5}{357}\sqrt{310}e^{13} + \frac{5}{357}\sqrt{815}e^{45},$ $\frac{5}{357}\sqrt{310}e^{23} + \frac{5}{357}\sqrt{815}e^{46}$	$(\frac{5}{119}, \frac{5}{119}, -\frac{8}{119}, -\frac{125}{357}, \frac{116}{357}, \frac{116}{357}, \frac{10}{119}, -\frac{3}{119}, -\frac{3}{119})$ $+ \frac{5}{357}\sqrt{1595}e^5 \otimes e_9 + \frac{5}{357}\sqrt{1595}e^6 \otimes e_8$	{1234567, 124789, 1369, 158, 34789, 4567}
93:40	$0, 0, 0, 0, 0, 0, \frac{20}{357}\sqrt{5}e^{12}, \frac{5}{357}\sqrt{310}e^{13} + \frac{5}{357}\sqrt{815}e^{45},$ $\frac{5}{357}\sqrt{310}e^{23} + \frac{5}{357}\sqrt{815}e^{46}$	$(\frac{5}{119}, \frac{5}{119}, -\frac{8}{119}, -\frac{125}{357}, \frac{116}{357}, \frac{116}{357}, \frac{10}{119}, -\frac{3}{119}, -\frac{3}{119})$ $+ \frac{5}{357}\sqrt{1595}e^5 \otimes e_9 - \frac{5}{357}\sqrt{1595}e^6 \otimes e_8$	{1234567, 124789, 1369, 158, 34789, 4567}
93:40	$0, 0, 0, 0, 0, 0, \frac{14}{471}\sqrt{101}e^{12}, \frac{16}{471}\sqrt{101}e^{13} + \frac{2}{471}\sqrt{3030}e^{45},$ $\frac{14}{471}\sqrt{202}e^{23} + \frac{14}{471}\sqrt{101}e^{46}$	$(\frac{19}{157}, -\frac{101}{471}, \frac{19}{157}, \frac{8}{471}, \frac{106}{471}, \frac{52}{471}, -\frac{44}{471}, \frac{38}{157}, -\frac{44}{471})$ $+ \frac{1}{471}\sqrt{47874}e^1 \otimes e_9 + \frac{2}{471}\sqrt{9494}e^3 \otimes e_7$	{12346, 1235, 145678, 178, 2479, 25679, 34589, 3689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:40	$0, 0, 0, 0, 0, 0, \frac{14}{471}\sqrt{101}e^{12}, \frac{16}{471}\sqrt{101}e^{13} + \frac{2}{471}\sqrt{3030}e^{45},$ $\frac{7}{471}\sqrt{202}e^{23} + \frac{14}{471}\sqrt{101}e^{46}$	$(\frac{19}{157}, -\frac{101}{471}, \frac{19}{157}, \frac{8}{471}, \frac{106}{471}, -\frac{52}{471}, -\frac{44}{471}, \frac{38}{157}, -\frac{44}{471})$ $+ \frac{1}{471}\sqrt{47874}e^1 \otimes e_9 - \frac{2}{471}\sqrt{9494}e^3 \otimes e_7$	{12346, 1235, 145678, 178, 2479, 25679, 34589, 3689}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{1169}\sqrt{109779}e^{12}, \frac{12}{1169}\sqrt{4255}e^{13} + \frac{2}{1169}\sqrt{86802}e^{45},$ $\frac{1}{1169}\sqrt{59570}e^{23} + \frac{2}{1169}\sqrt{189773}e^{46}$	$(\frac{551}{1169}, -\frac{99}{1169}, -\frac{201}{1169}, -\frac{48}{1169}, \frac{398}{1169}, -\frac{36}{167}, \frac{452}{1169}, \frac{50}{167}, -\frac{300}{1169})$ $+ \frac{5}{1169}\sqrt{66378}e^1 \otimes e_9$	{12346, 1235, 145678, 178, 2479, 25679, 34589, 3689}
93:40	$0, 0, 0, 0, 0, 0, \frac{36}{3371}\sqrt{345}e^{12}, \frac{36}{3371}\sqrt{1191}e^{13} + \frac{36}{3371}\sqrt{239}e^{45},$ $\frac{72}{3371}\sqrt{77}e^{23} + \frac{36}{3371}\sqrt{1306}e^{46}$	$(\frac{382}{3371}, \frac{290}{3371}, -\frac{556}{3371}, -\frac{740}{3371}, \frac{566}{3371}, \frac{474}{3371}, \frac{672}{3371}, -\frac{174}{3371}, -\frac{266}{3371})$ $+ \frac{36}{3371}\sqrt{1453}e^6 \otimes e_8 + \frac{36}{3371}\sqrt{1591}e^1 \otimes e_9$	{128, 13467, 2345789, 569}
93:40	$0, 0, 0, 0, 0, 0, \frac{550}{2209}\sqrt{3}e^{12}, \frac{50}{2209}\sqrt{341}e^{13} + \frac{100}{2209}\sqrt{11}e^{45},$ $\frac{100}{2209}\sqrt{33}e^{23} + \frac{50}{2209}\sqrt{462}e^{46}$	$(\frac{858}{2209}, -\frac{207}{2209}, -\frac{185}{2209}, \frac{429}{2209}, \frac{244}{2209}, -\frac{821}{2209}, \frac{651}{2209}, \frac{673}{2209}, -\frac{392}{2209})$ $+ \frac{350}{2209}\sqrt{26}e^1 \otimes e_9 + \frac{50}{2209}\sqrt{647}e^4 \otimes e_6$	{24579, 2679, 3489, 35689}
93:40	$0, 0, 0, 0, 0, 0, \frac{36}{719}\sqrt{6}e^{12}, \frac{18}{719}\sqrt{86}e^{13} + \frac{9}{719}\sqrt{454}e^{45},$ $\frac{18}{719}\sqrt{86}e^{23} + \frac{9}{719}\sqrt{454}e^{46}$	$(-\frac{45}{719}, -\frac{45}{719}, \frac{72}{719}, -\frac{162}{719}, \frac{189}{719}, \frac{189}{719}, -\frac{90}{719}, \frac{27}{719}, \frac{27}{719})$ $+ \frac{18}{719}\sqrt{179}e^3 \otimes e_7 + \frac{45}{719}\sqrt{38}e^5 \otimes e_9 - \frac{45}{719}\sqrt{38}e^6 \otimes e_8$	{123456, 1578, 3489}
93:40	$0, 0, 0, 0, 0, 0, \frac{36}{719}\sqrt{6}e^{12}, \frac{18}{719}\sqrt{86}e^{13} + \frac{9}{719}\sqrt{454}e^{45},$ $\frac{18}{719}\sqrt{86}e^{23} + \frac{9}{719}\sqrt{454}e^{46}$	$(-\frac{45}{719}, -\frac{45}{719}, \frac{72}{719}, -\frac{162}{719}, \frac{189}{719}, \frac{189}{719}, -\frac{90}{719}, \frac{27}{719}, \frac{27}{719})$ $+ \frac{18}{719}\sqrt{179}e^3 \otimes e_7 + \frac{45}{719}\sqrt{38}e^5 \otimes e_9 + \frac{45}{719}\sqrt{38}e^6 \otimes e_8$	{123456, 1578, 3489}
93:40	$0, 0, 0, 0, 0, 0, \frac{2}{423}\sqrt{7205}e^{12}, \frac{4}{141}\sqrt{262}e^{13} + \frac{2}{423}\sqrt{4454}e^{45},$ $\frac{2}{423}\sqrt{1965}e^{23} + \frac{8}{423}\sqrt{655}e^{46}$	$(-\frac{77}{423}, -\frac{20}{423}, \frac{55}{141}, \frac{175}{423}, -\frac{29}{141}, -\frac{10}{141}, -\frac{97}{423}, \frac{88}{423}, \frac{145}{423})$ $+ \frac{2}{141}\sqrt{2489}e^4 \otimes e_5 + \frac{2}{423}\sqrt{26462}e^3 \otimes e_7$	{12346, 1235, 2479, 25679}
93:40	$0, 0, 0, 0, 0, 0, \frac{22}{4205}\sqrt{355}e^{12}, \frac{44}{4205}\sqrt{317}e^{13} + \frac{22}{4205}\sqrt{430}e^{45},$ $\frac{22}{4205}\sqrt{501}e^{23} + \frac{88}{4205}\sqrt{107}e^{46}$	$(\frac{209}{4205}, \frac{88}{841}, -\frac{473}{4205}, -\frac{11}{4205}, -\frac{253}{4205}, -\frac{22}{4205}, \frac{649}{4205}, -\frac{264}{4205}, -\frac{33}{4205})$ $+ \frac{22}{4205}\sqrt{1538}e^1 \otimes e_9 + \frac{22}{4205}\sqrt{977}e^4 \otimes e_5 + \frac{44}{4205}\sqrt{349}e^6 \otimes e_8$	{13467, 569}
93:40	$0, 0, 0, 0, 0, 0, \frac{6}{437}\sqrt{1335}e^{12}, \frac{4}{437}\sqrt{445}e^{13} + \frac{14}{437}\sqrt{89}e^{45},$ $\frac{4}{437}\sqrt{267}e^{23} + \frac{2}{437}\sqrt{5785}e^{46}$	$(\frac{101}{437}, -\frac{96}{437}, \frac{1}{23}, \frac{63}{437}, \frac{183}{437}, -\frac{14}{437}, \frac{5}{437}, \frac{120}{437}, -\frac{77}{437})$ $+ \frac{2}{437}\sqrt{16109}e^5 \otimes e_7 + \frac{2}{437}\sqrt{18245}e^4 \otimes e_9$	{123456, 14678, 2679, 35689}
93:40	$0, 0, 0, 0, 0, 0, \frac{78}{911}\sqrt{23}e^{12}, \frac{1}{911}\sqrt{128570}e^{13} + \frac{1}{911}\sqrt{251758}e^{45},$ $\frac{8}{911}\sqrt{598}e^{23} + \frac{1}{911}\sqrt{81926}e^{46}$	$(\frac{55}{911}, -\frac{224}{911}, \frac{225}{911}, \frac{150}{911}, \frac{130}{911}, -\frac{149}{911}, -\frac{169}{911}, \frac{280}{911}, \frac{1}{911})$ $+ \frac{12}{911}\sqrt{1495}e^4 \otimes e_6 + \frac{3}{911}\sqrt{31694}e^5 \otimes e_7$	{123568, 167, 2367, 568}
93:41	$0, 0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{14} + \frac{1}{22}\sqrt{133}e^{35},$ $\frac{1}{44}\sqrt{182}e^{23} + \frac{5}{44}\sqrt{14}e^{46}$	$(-\frac{1}{44}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{7}{22}, \frac{3}{11}, -\frac{1}{22}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{44}\sqrt{546}e^3 \otimes e_7 - \frac{1}{44}\sqrt{546}e^6 \otimes e_8$	{123489, 123569, 145789, 1679, 2467, 2578, 3456, 38}
93:41	$0, 0, 0, 0, 0, 0, \frac{5}{44}\sqrt{14}e^{12}, \frac{1}{44}\sqrt{182}e^{14} + \frac{1}{22}\sqrt{133}e^{35},$ $\frac{1}{44}\sqrt{182}e^{23} + \frac{5}{44}\sqrt{14}e^{46}$	$(-\frac{1}{44}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{7}{22}, \frac{3}{11}, -\frac{1}{22}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{44}\sqrt{546}e^3 \otimes e_7 + \frac{1}{44}\sqrt{546}e^6 \otimes e_8$	{123489, 123569, 145789, 1679, 2467, 2578, 3456, 38}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{15}e^{12}, \frac{4}{7}\sqrt{2}e^{14} + \frac{4}{21}\sqrt{15}e^{35},$ $\frac{8}{7}e^{23} + \frac{4}{21}\sqrt{15}e^{46}$	$(\frac{2}{21}, -\frac{4}{21}, \frac{2}{3}, \frac{2}{21}, -\frac{10}{21}, \frac{8}{21}, -\frac{2}{21}, \frac{4}{21}, \frac{10}{21})$ $+ \frac{4}{7}\sqrt{6}e^3 \otimes e_5$	{12347, 1245679, 13469, 145, 236, 259, 379, 567}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{757}\sqrt{1295}e^{12}, \frac{20}{757}\sqrt{322}e^{14} + \frac{20}{757}\sqrt{231}e^{35},$ $\frac{8}{757}\sqrt{2905}e^{23} + \frac{4}{757}\sqrt{1295}e^{46}$	$(\frac{258}{757}, -\frac{228}{757}, \frac{206}{757}, -\frac{126}{757}, -\frac{74}{757}, \frac{104}{757}, \frac{30}{757}, \frac{132}{757}, -\frac{22}{757})$ $+ \frac{12}{757}\sqrt{1190}e^3 \otimes e_5 + \frac{32}{757}\sqrt{210}e^1 \otimes e_9$	{12347, 145, 259, 379}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{341}\sqrt{393}e^{12}, \frac{4}{341}\sqrt{78}e^{14} + \frac{12}{341}\sqrt{35}e^{35},$ $\frac{4}{341}\sqrt{78}e^{23} + \frac{4}{341}\sqrt{159}e^{46}$	$(\frac{2}{341}, \frac{28}{341}, -\frac{50}{341}, \frac{2}{341}, \frac{54}{341}, -\frac{24}{341}, \frac{30}{341}, \frac{4}{341}, -\frac{2}{31})$ $+ \frac{12}{341}\sqrt{26}e^1 \otimes e_9 + \frac{4}{341}\sqrt{390}e^5 \otimes e_7 + \frac{8}{341}\sqrt{78}e^2 \otimes e_8$	{134678, 5689}
93:41	$0, 0, 0, 0, 0, 0, \frac{8}{677}\sqrt{38}e^{12}, \frac{4}{677}\sqrt{143}e^{14} + \frac{4}{677}\sqrt{295}e^{35},$ $\frac{4}{677}\sqrt{65}e^{23} + \frac{4}{677}\sqrt{230}e^{46}$	$(\frac{44}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{34}{677}, -\frac{8}{677}, \frac{18}{677}, \frac{10}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^5 \otimes e_9 + \frac{4}{677}\sqrt{195}e^3 \otimes e_7 - \frac{4}{677}\sqrt{195}e^6 \otimes e_8$	{123489, 1679, 2578, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{8}{677}\sqrt{38}e^{12}, \frac{4}{677}\sqrt{143}e^{14} + \frac{4}{677}\sqrt{295}e^{35},$ $\frac{4}{677}\sqrt{65}e^{23} + \frac{4}{677}\sqrt{230}e^{46}$	$(\frac{44}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{34}{677}, -\frac{8}{677}, \frac{18}{677}, \frac{10}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^5 \otimes e_9 + \frac{4}{677}\sqrt{195}e^3 \otimes e_7 + \frac{4}{677}\sqrt{195}e^6 \otimes e_8$	{123489, 1679, 2578, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{47}\sqrt{17}e^{12}, \frac{8}{47}\sqrt{5}e^{14} + \frac{20}{47}e^{35},$ $\frac{4}{47}\sqrt{2}e^{23} + \frac{4}{47}\sqrt{17}e^{46}$	$(\frac{8}{47}, -\frac{10}{47}, \frac{6}{47}, \frac{2}{47}, \frac{4}{47}, -\frac{6}{47}, -\frac{2}{47}, \frac{10}{47}, -\frac{4}{47})$ $+ \frac{4}{47}\sqrt{6}e^4 \otimes e_6 + \frac{8}{47}\sqrt{6}e^3 \otimes e_7 + \frac{8}{47}\sqrt{6}e^5 \otimes e_9$	{2578, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{5}{23}\sqrt{3}e^{12}, \frac{1}{23}\sqrt{57}e^{14} + \frac{1}{46}\sqrt{177}e^{35},$ $\frac{3}{46}\sqrt{30}e^{23} + \frac{5}{23}\sqrt{3}e^{46}$	$(\frac{7}{92}, \frac{1}{92}, 0, -\frac{13}{92}, -\frac{3}{46}, \frac{7}{46}, \frac{2}{23}, -\frac{3}{46}, \frac{1}{92})$ $+ \frac{1}{23}\sqrt{15}e^1 \otimes e_9 + \frac{1}{46}\sqrt{309}e^6 \otimes e_7 + \frac{3}{46}\sqrt{14}e^3 \otimes e_5$	{1357, 234579}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{89}\sqrt{105}e^{12}, \frac{4}{89}\sqrt{70}e^{14} + \frac{4}{89}\sqrt{7}e^{35},$ $\frac{8}{89}\sqrt{7}e^{23} + \frac{4}{89}\sqrt{105}e^{46}$	$(-\frac{14}{89}, -\frac{8}{89}, \frac{38}{89}, \frac{34}{89}, -\frac{18}{89}, -\frac{4}{89}, -\frac{22}{89}, \frac{20}{89}, \frac{30}{89})$ $+ \frac{16}{89}\sqrt{21}e^4 \otimes e_7 + \frac{4}{89}\sqrt{210}e^3 \otimes e_5$	{12346, 12459, 237, 25679}
93:41	$0, 0, 0, 0, 0, 0, \frac{8}{173}\sqrt{23}e^{12}, \frac{8}{173}\sqrt{26}e^{14} + \frac{40}{173}\sqrt{3}e^{35},$ $\frac{8}{173}\sqrt{26}e^{23} + \frac{40}{173}\sqrt{3}e^{46}$	$(\frac{20}{173}, \frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{40}{173}, -\frac{12}{173}, -\frac{12}{173})$ $+ \frac{8}{173}\sqrt{78}e^5 \otimes e_9 + \frac{8}{173}\sqrt{78}e^6 \otimes e_8$	{123489, 1679, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{133}e^{12}, \frac{2}{47}\sqrt{247}e^{14} + \frac{2}{47}\sqrt{114}e^{35},$ $\frac{2}{47}\sqrt{247}e^{23} + \frac{2}{47}\sqrt{133}e^{46}$	$(\frac{27}{47}, -\frac{12}{47}, \frac{1}{47}, -\frac{12}{47}, \frac{14}{47}, \frac{1}{47}, \frac{15}{47}, \frac{15}{47}, -\frac{11}{47})$ $+ \frac{2}{47}\sqrt{741}e^1 \otimes e_9$	{12346, 12358, 14567, 178, 24789, 25679, 34589, 369}
93:41	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{17}e^{14} + \frac{1}{7}\sqrt{13}e^{35},$ $\frac{2}{7}\sqrt{5}e^{23} + \frac{2}{7}\sqrt{5}e^{46}$	$(-\frac{1}{14}, \frac{1}{7}, 0, -\frac{1}{14}, -\frac{1}{7}, \frac{3}{14}, \frac{1}{14}, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{7}\sqrt{21}e^6 \otimes e_7 + \frac{3}{7}e^3 \otimes e_5$	{123569, 1357, 234579, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{8}{173}\sqrt{23}e^{12}, \frac{16}{173}\sqrt{13}e^{14} + \frac{8}{173}\sqrt{3}e^{35},$ $\frac{16}{173}\sqrt{13}e^{23} + \frac{8}{173}\sqrt{3}e^{46}$	$(\frac{20}{173}, \frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{40}{173}, -\frac{12}{173}, -\frac{12}{173})$ $+ \frac{8}{173}\sqrt{78}e^1 \otimes e_9 + \frac{8}{173}\sqrt{78}e^2 \otimes e_8$	{1234, 1678, 345689}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{17}\sqrt{5}e^{12}, \frac{8}{17}\sqrt{2}e^{14} + \frac{4}{17}\sqrt{5}e^{35},$ $\frac{8}{17}\sqrt{2}e^{23} + \frac{4}{17}\sqrt{5}e^{46}$	$(-\frac{2}{17}, -\frac{2}{17}, \frac{6}{17}, \frac{6}{17}, -\frac{2}{17}, -\frac{2}{17}, -\frac{4}{17}, \frac{4}{17}, \frac{4}{17})$ $+ \frac{8}{17}\sqrt{2}e^3 \otimes e_5 + \frac{8}{17}\sqrt{2}e^4 \otimes e_6$	{12347, 145, 567}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{349}\sqrt{2233}e^{12}, \frac{4}{349}\sqrt{1430}e^{14} + \frac{4}{349}\sqrt{1947}e^{35},$ $\frac{4}{349}\sqrt{1430}e^{23} + \frac{20}{349}\sqrt{55}e^{46}$	$(\frac{42}{349}, -\frac{36}{349}, -\frac{10}{349}, \frac{42}{349}, \frac{94}{349}, -\frac{88}{349}, \frac{6}{349}, \frac{84}{349}, -\frac{46}{349})$ $+ \frac{12}{349}\sqrt{286}e^5 \otimes e_7 + \frac{4}{349}\sqrt{858}e^1 \otimes e_9$	{124568, 134678, 236789, 5689}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{347}e^{12}, \frac{8}{677}\sqrt{65}e^{14} + \frac{20}{677}\sqrt{17}e^{35},$ $\frac{52}{677}\sqrt{2}e^{23} + \frac{8}{677}\sqrt{295}e^{46}$	$(-\frac{34}{677}, \frac{44}{677}, -\frac{34}{677}, \frac{18}{677}, \frac{18}{677}, -\frac{8}{677}, \frac{10}{677}, -\frac{16}{677}, \frac{10}{677})$ $+ \frac{12}{677}\sqrt{26}e^6 \otimes e_8 + \frac{4}{677}\sqrt{390}e^5 \otimes e_7$	{123569, 1679, 2467, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{14}e^{12}, \frac{1}{22}\sqrt{182}e^{14} + \frac{2}{11}\sqrt{14}e^{35},$ $\frac{1}{22}\sqrt{182}e^{23} + \frac{1}{22}\sqrt{133}e^{46}$	$(-\frac{1}{44}, -\frac{1}{44}, -\frac{1}{44}, \frac{3}{11}, \frac{3}{11}, -\frac{7}{22}, -\frac{1}{22}, \frac{1}{4}, -\frac{1}{22})$ $+ \frac{1}{22}\sqrt{273}e^5 \otimes e_7$	{123569, 124568, 134678, 1679, 236789, 2467, 3456, 5689}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{165}e^{12}, \frac{4}{677}\sqrt{65}e^{14} + \frac{4}{677}\sqrt{87}e^{35},$ $\frac{4}{677}\sqrt{78}e^{23} + \frac{4}{677}\sqrt{230}e^{46}$	$(\frac{18}{677}, -\frac{34}{677}, \frac{44}{677}, -\frac{8}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{16}{677}, \frac{10}{677}, \frac{10}{677})$ $+ \frac{12}{677}\sqrt{26}e^4 \otimes e_7 + \frac{4}{677}\sqrt{195}e^1 \otimes e_9 - \frac{4}{677}\sqrt{195}e^6 \otimes e_8$	{1246, 1378, 235679, 4589}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{677}\sqrt{165}e^{12}, \frac{4}{677}\sqrt{65}e^{14} + \frac{4}{677}\sqrt{87}e^{35},$ $\frac{4}{677}\sqrt{78}e^{23} + \frac{4}{677}\sqrt{230}e^{46}$	$(\frac{18}{677}, -\frac{34}{677}, \frac{44}{677}, -\frac{8}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{16}{677}, \frac{10}{677}, \frac{10}{677})$ $+ \frac{12}{677}\sqrt{26}e^4 \otimes e_7 + \frac{4}{677}\sqrt{195}e^1 \otimes e_9 + \frac{4}{677}\sqrt{195}e^6 \otimes e_8$	{1246, 1378, 235679, 4589}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{757}\sqrt{1295}e^{12}, \frac{8}{757}\sqrt{2905}e^{14} + \frac{20}{757}\sqrt{231}e^{35},$ $\frac{20}{757}\sqrt{322}e^{23} + \frac{4}{757}\sqrt{1295}e^{46}$	$(\frac{156}{757}, -\frac{126}{757}, \frac{2}{757}, \frac{78}{757}, \frac{232}{757}, -\frac{202}{757}, \frac{30}{757}, \frac{234}{757}, -\frac{124}{757})$ $+ \frac{12}{757}\sqrt{1190}e^4 \otimes e_6 + \frac{32}{757}\sqrt{210}e^1 \otimes e_9$	{12347, 1235678, 145, 168}
93:41	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{69}e^{12}, \frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{30}e^{35},$ $\frac{2}{43}\sqrt{39}e^{23} + \frac{2}{43}\sqrt{69}e^{46}$	$(\frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^1 \otimes e_9 + \frac{2}{43}\sqrt{78}e^6 \otimes e_7$	{124568, 1357, 234579, 5689}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{19}\sqrt{7}e^{12}, \frac{8}{19}\sqrt{2}e^{14} + \frac{2}{19}\sqrt{30}e^{35},$ $\frac{1}{19}\sqrt{107}e^{23} + \frac{1}{19}\sqrt{73}e^{46}$	$(0, \frac{3}{38}, -\frac{5}{38}, 0, \frac{5}{38}, -\frac{1}{19}, \frac{3}{38}, 0, -\frac{1}{19})$ $+ \frac{2}{19}\sqrt{6}e^1 \otimes e_9 + \frac{3}{19}\sqrt{13}e^5 \otimes e_7 + \frac{3}{19}\sqrt{7}e^4 \otimes e_6$	{2467, 3456}
93:41	$0, 0, 0, 0, 0, 0, \frac{4}{89}\sqrt{7}e^{12}, \frac{4}{89}\sqrt{70}e^{14} + \frac{4}{89}\sqrt{105}e^{35},$ $\frac{8}{89}\sqrt{7}e^{23} + \frac{4}{89}\sqrt{105}e^{46}$	$(\frac{2}{89}, \frac{8}{89}, \frac{22}{89}, -\frac{14}{89}, -\frac{34}{89}, \frac{44}{89}, \frac{10}{89}, -\frac{12}{89}, \frac{30}{89})$ $+ \frac{16}{89}\sqrt{21}e^6 \otimes e_8 + \frac{4}{89}\sqrt{210}e^3 \otimes e_5$	{12378, 158, 24589, 34789}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:42	$0, 0, 0, 0, 0, 0, \frac{1}{223}\sqrt{37774}e^{12}, \frac{5}{223}\sqrt{374}e^{15} + \frac{4}{223}\sqrt{187}e^{34},$ $\frac{11}{223}\sqrt{170}e^{23} + \frac{6}{223}\sqrt{935}e^{46}$	$(-\frac{42}{223}, -\frac{12}{223}, \frac{81}{223}, -\frac{64}{223}, \frac{59}{223}, \frac{133}{223}, -\frac{54}{223}, \frac{17}{223}, \frac{69}{223})$ $+ \frac{3}{223}\sqrt{7854}e^6 \otimes e_7$	{1235689, 124568, 13578, 145789, 234579, 257, 3456, 569}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{3697}\sqrt{67334}e^{12}, \frac{8}{3697}\sqrt{1542}e^{15} + \frac{2}{3697}\sqrt{313797}e^{34},$ $\frac{2}{3697}\sqrt{166793}e^{23} + \frac{2}{3697}\sqrt{133383}e^{46}$	$(-\frac{639}{3697}, \frac{284}{3697}, \frac{159}{3697}, -\frac{389}{3697}, \frac{409}{3697}, \frac{832}{3697}, -\frac{355}{3697}, -\frac{230}{3697}, \frac{443}{3697})$ $+ \frac{4}{3697}\sqrt{107169}e^2 \otimes e_8 + \frac{4}{3697}\sqrt{110253}e^3 \otimes e_7$	{1234, 14578, 2579, 389}
93:42	$0, 0, 0, 0, 0, 0, \frac{8}{1135}\sqrt{5133}e^{12}, \frac{12}{1135}\sqrt{4234}e^{15} + \frac{8}{1135}\sqrt{6902}e^{34},$ $\frac{4}{1135}\sqrt{31146}e^{23} + \frac{48}{1135}\sqrt{145}e^{46}$	$(-\frac{171}{1135}, -\frac{51}{1135}, \frac{71}{1135}, \frac{242}{1135}, \frac{484}{1135}, -\frac{222}{1135}, -\frac{222}{1135}, \frac{313}{1135}, \frac{4}{1135})$ $+ \frac{4}{1135}\sqrt{58522}e^5 \otimes e_9 + \frac{8}{1135}\sqrt{87}e^4 \otimes e_6$	{12357, 1456, 234568, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{232}{1591}\sqrt{2}e^{12}, \frac{4}{1591}\sqrt{33002}e^{15} + \frac{120}{1591}\sqrt{29}e^{34},$ $\frac{4}{1591}\sqrt{22330}e^{23} + \frac{16}{1591}\sqrt{2001}e^{46}$	$(-\frac{297}{1591}, -\frac{113}{1591}, \frac{221}{1591}, \frac{54}{1591}, \frac{572}{1591}, \frac{54}{1591}, -\frac{410}{1591}, \frac{275}{1591}, \frac{108}{1591})$ $+ \frac{120}{1591}\sqrt{29}e^6 \otimes e_7 + \frac{4}{1591}\sqrt{57130}e^5 \otimes e_9$	{12357, 1456, 234568, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{16}{3145}\sqrt{1631}e^{12}, \frac{36}{3145}\sqrt{699}e^{15} + \frac{2}{3145}\sqrt{51027}e^{34},$ $\frac{2}{3145}\sqrt{193157}e^{23} + \frac{2}{3145}\sqrt{99957}e^{46}$	$(\frac{477}{3145}, \frac{8}{85}, -\frac{57}{629}, \frac{23}{629}, -\frac{647}{3145}, -\frac{104}{3145}, \frac{773}{3145}, -\frac{2}{37}, \frac{11}{3145})$ $+ \frac{4}{3145}\sqrt{91569}e^1 \otimes e_9 + \frac{8}{3145}\sqrt{18174}e^2 \otimes e_8$	{1235, 178, 2479, 34589}
93:42	$0, 0, 0, 0, 0, 0, \frac{60}{1897}\sqrt{5}e^{12}, \frac{12}{1897}\sqrt{31}e^{15} + \frac{6}{1897}\sqrt{305}e^{34},$ $\frac{6}{1897}\sqrt{259}e^{23} + \frac{6}{1897}\sqrt{617}e^{46}$	$(\frac{3}{1897}, -\frac{96}{1897}, \frac{99}{1897}, -\frac{57}{1897}, \frac{3}{271}, \frac{60}{1897}, \frac{75}{1897}, \frac{6}{271}, \frac{3}{1897})$ $+ \frac{12}{1897}\sqrt{133}e^6 \otimes e_8 + \frac{60}{1897}\sqrt{5}e^1 \otimes e_9 + \frac{72}{1897}\sqrt{5}e^4 \otimes e_7$	{1378, 4589}
93:42	$0, 0, 0, 0, 0, 0, \frac{18}{3761}\sqrt{406}e^{12}, \frac{36}{3761}\sqrt{314}e^{15} + \frac{18}{3761}\sqrt{413}e^{34},$ $\frac{306}{3761}e^{23} + \frac{18}{3761}\sqrt{991}e^{46}$	$(\frac{189}{3761}, -\frac{396}{3761}, \frac{423}{3761}, -\frac{279}{3761}, -\frac{45}{3761}, \frac{306}{3761}, -\frac{207}{3761}, \frac{144}{3761}, \frac{27}{3761})$ $+ \frac{18}{3761}\sqrt{998}e^6 \otimes e_8 + \frac{72}{3761}\sqrt{57}e^5 \otimes e_7 + \frac{72}{3761}\sqrt{97}e^1 \otimes e_9$	{178, 34589}
93:42	$0, 0, 0, 0, 0, 0, \frac{55}{359}\sqrt{6}e^{12}, \frac{33}{359}\sqrt{10}e^{15} + \frac{55}{359}\sqrt{10}e^{34},$ $\frac{11}{359}\sqrt{42}e^{23} + \frac{33}{359}\sqrt{6}e^{46}$	$(0, -\frac{66}{359}, \frac{55}{359}, \frac{55}{359}, \frac{110}{359}, -\frac{66}{359}, -\frac{66}{359}, \frac{110}{359}, -\frac{11}{359})$ $+ \frac{11}{359}\sqrt{246}e^4 \otimes e_6 + \frac{11}{359}\sqrt{70}e^5 \otimes e_9 + \frac{33}{359}\sqrt{38}e^3 \otimes e_7$	{123568, 14578}
93:42	$0, 0, 0, 0, 0, 0, \frac{175}{6229}\sqrt{190}e^{12}, \frac{35}{6229}\sqrt{614}e^{15} + \frac{140}{6229}\sqrt{94}e^{34},$ $\frac{35}{6229}\sqrt{1178}e^{23} + \frac{210}{6229}\sqrt{47}e^{46}$	$(\frac{210}{6229}, \frac{420}{6229}, \frac{315}{6229}, -\frac{1120}{6229}, \frac{1015}{6229}, \frac{1855}{6229}, \frac{630}{6229}, -\frac{805}{6229}, \frac{735}{6229})$ $+ \frac{105}{6229}\sqrt{494}e^6 \otimes e_7 + \frac{2100}{6229}e^1 \otimes e_5 + \frac{840}{6229}\sqrt{6}e^2 \otimes e_8$	{234579, 257}
93:42	$0, 0, 0, 0, 0, 0, \frac{10}{61}\sqrt{10}e^{12}, \frac{10}{61}e^{15} + \frac{20}{61}e^{34},$ $\frac{5}{61}\sqrt{2}e^{23} + \frac{15}{61}\sqrt{2}e^{46}$	$(-\frac{15}{61}, \frac{15}{61}, 0, -\frac{10}{61}, \frac{5}{61}, \frac{25}{61}, 0, -\frac{10}{61}, \frac{15}{61})$ $+ \frac{15}{61}\sqrt{6}e^2 \otimes e_8 + \frac{15}{61}\sqrt{6}e^6 \otimes e_7$	{1378, 14789, 23479, 27}
93:42	$0, 0, 0, 0, 0, 0, \frac{38}{2701}\sqrt{782}e^{12}, \frac{38}{2701}\sqrt{206}e^{15} + \frac{38}{2701}\sqrt{723}e^{34},$ $\frac{38}{2701}\sqrt{103}e^{23} + \frac{38}{2701}\sqrt{89}e^{46}$	$(\frac{399}{2701}, -\frac{456}{2701}, \frac{665}{2701}, -\frac{589}{2701}, -\frac{323}{2701}, \frac{798}{2701}, -\frac{57}{2701}, \frac{76}{2701}, \frac{209}{2701})$ $+ \frac{114}{2701}\sqrt{118}e^3 \otimes e_7 + \frac{152}{2701}\sqrt{47}e^1 \otimes e_5 + \frac{76}{2701}\sqrt{166}e^6 \otimes e_8$	{1679, 3456}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{1091}\sqrt{103411}e^{12}, \frac{1}{1091}\sqrt{400214}e^{15} + \frac{5}{1091}\sqrt{51034}e^{34},$ $\frac{1}{1091}\sqrt{351866}e^{23} + \frac{6}{1091}\sqrt{4029}e^{46}$	$(\frac{177}{1091}, \frac{159}{1091}, -\frac{162}{1091}, \frac{670}{1091}, \frac{331}{1091}, -\frac{673}{1091}, \frac{336}{1091}, \frac{508}{1091}, -\frac{3}{1091})$ $+ \frac{3}{1091}\sqrt{271286}e^4 \otimes e_6$	{12458, 126, 1347, 135678, 2478, 2567, 345, 368}
93:42	$0, 0, 0, 0, 0, 0, \frac{25}{367}\sqrt{2}e^{12}, \frac{5}{367}\sqrt{506}e^{15} + \frac{30}{367}\sqrt{6}e^{34},$ $\frac{10}{367}\sqrt{103}e^{23} + \frac{5}{367}\sqrt{282}e^{46}$	$(-\frac{165}{734}, \frac{95}{734}, -\frac{35}{734}, \frac{15}{367}, \frac{80}{367}, \frac{15}{367}, -\frac{35}{367}, -\frac{5}{734}, \frac{30}{367})$ $+ \frac{30}{367}\sqrt{6}e^6 \otimes e_7 + \frac{50}{367}\sqrt{7}e^5 \otimes e_9 + \frac{5}{367}\sqrt{426}e^2 \otimes e_8$	{12357, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{26}e^{12}, \frac{2}{49}\sqrt{86}e^{15} + \frac{12}{49}e^{34},$ $\frac{4}{49}\sqrt{19}e^{23} + \frac{2}{49}\sqrt{30}e^{46}$	$(-\frac{3}{14}, \frac{17}{98}, -\frac{11}{98}, \frac{6}{49}, \frac{11}{49}, -\frac{3}{49}, -\frac{2}{49}, \frac{1}{98}, \frac{3}{49})$ $+ \frac{2}{49}\sqrt{66}e^2 \otimes e_8 + \frac{8}{49}\sqrt{7}e^5 \otimes e_9$	{12357, 13489, 249, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{190}e^{12}, \frac{2}{49}\sqrt{190}e^{15} + \frac{4}{49}\sqrt{55}e^{34},$ $\frac{4}{49}\sqrt{55}e^{23} + \frac{6}{49}\sqrt{10}e^{46}$	$(-\frac{3}{14}, \frac{57}{98}, -\frac{27}{98}, \frac{2}{49}, -\frac{1}{49}, \frac{13}{49}, \frac{18}{49}, -\frac{23}{98}, \frac{15}{49})$ $+ \frac{18}{49}\sqrt{10}e^2 \otimes e_8$	{12345, 1259, 13789, 1478, 2347, 279, 3589, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{507}\sqrt{318}e^{12}, \frac{4}{507}\sqrt{30}e^{15} + \frac{2}{507}\sqrt{255}e^{34},$ $\frac{1}{169}\sqrt{107}e^{23} + \frac{2}{507}\sqrt{195}e^{46}$	$(\frac{2}{169}, -\frac{7}{169}, \frac{7}{169}, -\frac{4}{169}, \frac{1}{169}, \frac{4}{169}, -\frac{5}{169}, \frac{3}{169}, 0)$ $+ \frac{1}{507}\sqrt{1545}e^4 \otimes e_7 + \frac{1}{507}\sqrt{645}e^1 \otimes e_5 + \frac{1}{507}\sqrt{669}e^6 \otimes e_8$	{1679, 3456}
93:42	$0, 0, 0, 0, 0, 0, \frac{16}{583}\sqrt{167}e^{12}, \frac{4}{583}\sqrt{9519}e^{15} + \frac{2}{583}\sqrt{27555}e^{34},$ $\frac{2}{583}\sqrt{27221}e^{23} + \frac{2}{583}\sqrt{32565}e^{46}$	$(\frac{291}{583}, -\frac{136}{583}, \frac{93}{583}, \frac{61}{583}, -\frac{137}{583}, -\frac{104}{583}, \frac{155}{583}, \frac{14}{583}, -\frac{43}{583})$ $+ \frac{4}{583}\sqrt{20541}e^1 \otimes e_9$	{123468, 1235, 14567, 178, 2479, 256789, 34589, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:42	$0, 0, 0, 0, 0, 0, \frac{6}{259}\sqrt{182}e^{12}, \frac{3}{259}\sqrt{462}e^{15} + \frac{3}{259}\sqrt{714}e^{34},$ $\frac{3}{259}\sqrt{182}e^{23} + \frac{6}{37}e^{46}$	$(-\frac{9}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+ \frac{3}{259}\sqrt{798}e^4 \otimes e_6 + \frac{6}{259}\sqrt{259}e^5 \otimes e_7 + \frac{6}{259}\sqrt{371}e^2 \otimes e_8$	{12345, 1478, 2347, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{6}{259}\sqrt{182}e^{12}, \frac{3}{259}\sqrt{462}e^{15} + \frac{3}{259}\sqrt{714}e^{34},$ $\frac{3}{259}\sqrt{182}e^{23} + \frac{6}{37}e^{46}$	$(-\frac{9}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+ \frac{3}{259}\sqrt{798}e^4 \otimes e_6 - \frac{6}{259}\sqrt{259}e^5 \otimes e_7 + \frac{6}{259}\sqrt{371}e^2 \otimes e_8$	{12345, 1478, 2347, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{28}{3537}\sqrt{1023}e^{12}, \frac{2}{3537}\sqrt{420794}e^{15} + \frac{2}{3537}\sqrt{256773}e^{34},$ $\frac{154}{3537}\sqrt{31}e^{23} + \frac{14}{3537}\sqrt{5797}e^{46}$	$(\frac{463}{3537}, -\frac{260}{1179}, \frac{187}{1179}, \frac{89}{1179}, \frac{365}{3537}, -\frac{18}{131}, -\frac{317}{3537}, \frac{92}{393}, -\frac{73}{1179})$ $+ \frac{2}{3537}\sqrt{660858}e^1 \otimes e_9 + \frac{4}{3537}\sqrt{106733}e^5 \otimes e_7$	{1235, 178, 2479, 34589}
93:42	$0, 0, 0, 0, 0, 0, \frac{36}{497}\sqrt{35}e^{12}, \frac{12}{71}\sqrt{5}e^{15} + \frac{8}{497}\sqrt{1155}e^{34},$ $\frac{12}{497}\sqrt{7}e^{23} + \frac{4}{497}\sqrt{1281}e^{46}$	$(\frac{10}{497}, -\frac{14}{71}, \frac{80}{497}, \frac{75}{497}, \frac{145}{497}, -\frac{93}{497}, -\frac{88}{497}, \frac{155}{497}, -\frac{18}{497})$ $+ \frac{4}{497}\sqrt{4074}e^4 \otimes e_6 + \frac{4}{497}\sqrt{5523}e^3 \otimes e_7$	{1234, 123568, 14578, 167}
93:42	$0, 0, 0, 0, 0, 0, \frac{1}{911}\sqrt{251758}e^{12}, \frac{1}{911}\sqrt{81926}e^{15} + \frac{8}{911}\sqrt{598}e^{34},$ $\frac{1}{911}\sqrt{128570}e^{23} + \frac{78}{911}\sqrt{23}e^{46}$	$(\frac{150}{911}, -\frac{132}{911}, \frac{225}{911}, -\frac{224}{911}, -\frac{149}{911}, \frac{317}{911}, \frac{18}{911}, \frac{1}{911}, \frac{93}{911})$ $+ \frac{12}{911}\sqrt{1495}e^1 \otimes e_5 + \frac{3}{911}\sqrt{31694}e^6 \otimes e_7$	{234579, 257, 3456, 569}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{299}\sqrt{3417}e^{12}, \frac{2}{299}\sqrt{3417}e^{15} + \frac{2}{299}\sqrt{1581}e^{34},$ $\frac{2}{299}\sqrt{1581}e^{23} + \frac{2}{299}\sqrt{510}e^{46}$	$(-\frac{102}{299}, \frac{83}{299}, -\frac{30}{299}, \frac{11}{299}, \frac{83}{299}, \frac{42}{299}, -\frac{19}{299}, -\frac{19}{299}, \frac{53}{299})$ $+ \frac{2}{299}\sqrt{6018}e^5 \otimes e_7 + \frac{2}{299}\sqrt{7599}e^2 \otimes e_8$	{12345, 1259, 13789, 1478, 2347, 279, 3589, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{299}\sqrt{3417}e^{12}, \frac{2}{299}\sqrt{3417}e^{15} + \frac{2}{299}\sqrt{1581}e^{34},$ $\frac{2}{299}\sqrt{1581}e^{23} + \frac{2}{299}\sqrt{510}e^{46}$	$(-\frac{102}{299}, \frac{83}{299}, -\frac{30}{299}, \frac{11}{299}, \frac{83}{299}, \frac{42}{299}, -\frac{19}{299}, -\frac{19}{299}, \frac{53}{299})$ $- \frac{2}{299}\sqrt{6018}e^5 \otimes e_7 + \frac{2}{299}\sqrt{7599}e^2 \otimes e_8$	{12345, 1259, 13789, 1478, 2347, 279, 3589, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{181}\sqrt{962}e^{12}, \frac{4}{181}\sqrt{518}e^{15} + \frac{2}{181}\sqrt{3145}e^{34},$ $\frac{10}{181}\sqrt{111}e^{23} + \frac{2}{181}\sqrt{2109}e^{46}$	$(-\frac{27}{181}, -\frac{8}{181}, \frac{11}{181}, \frac{39}{181}, \frac{77}{181}, -\frac{36}{181}, -\frac{35}{181}, \frac{50}{181}, \frac{3}{181})$ $+ \frac{8}{181}\sqrt{370}e^4 \otimes e_7$	{12349, 124568, 13578, 1679, 236789, 257, 3456, 489}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{949}\sqrt{7602}e^{12}, \frac{12}{949}\sqrt{1991}e^{15} + \frac{2}{949}\sqrt{43259}e^{34},$ $\frac{2}{949}\sqrt{68961}e^{23} + \frac{2}{949}\sqrt{38553}e^{46}$	$(-\frac{123}{949}, -\frac{108}{949}, \frac{131}{949}, \frac{131}{949}, \frac{385}{949}, -\frac{108}{949}, \frac{231}{949}, \frac{262}{949}, \frac{23}{949})$ $+ \frac{4}{73}\sqrt{181}e^5 \otimes e_9 + \frac{4}{949}\sqrt{7602}e^3 \otimes e_7$	{126789, 13489, 234568, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{28}{997}\sqrt{69}e^{12}, \frac{14}{997}\sqrt{546}e^{15} + \frac{70}{997}\sqrt{11}e^{34},$ $\frac{14}{997}\sqrt{273}e^{23} + \frac{154}{997}\sqrt{3}e^{46}$	$(-\frac{189}{997}, \frac{84}{997}, -\frac{7}{997}, -\frac{7}{997}, \frac{175}{997}, \frac{84}{997}, -\frac{105}{997}, -\frac{14}{997}, \frac{77}{997})$ $+ \frac{112}{997}\sqrt{10}e^5 \otimes e_9 + \frac{14}{997}\sqrt{366}e^6 \otimes e_8 + \frac{42}{997}\sqrt{10}e^3 \otimes e_7$	{1456, 3679}
93:42	$0, 0, 0, 0, 0, 0, \frac{8}{1645}\sqrt{6123}e^{12}, \frac{4}{1645}\sqrt{942}e^{15} + \frac{2}{1645}\sqrt{37209}e^{34},$ $\frac{2}{1645}\sqrt{31871}e^{23} + \frac{2}{1645}\sqrt{84309}e^{46}$	$(\frac{27}{235}, -\frac{256}{1645}, \frac{131}{1645}, \frac{247}{1645}, \frac{27}{235}, -\frac{372}{1645}, -\frac{67}{1645}, \frac{54}{235}, -\frac{25}{329})$ $+ \frac{4}{1645}\sqrt{33598}e^4 \otimes e_7 + \frac{8}{1645}\sqrt{6123}e^1 \otimes e_9$	{124568, 13578, 236789, 489}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{3369}\sqrt{266662}e^{12}, \frac{92}{3369}\sqrt{310}e^{15} + \frac{2}{3369}\sqrt{167555}e^{34},$ $\frac{2}{3369}\sqrt{221743}e^{23} + \frac{2}{3369}\sqrt{495535}e^{46}$	$(-\frac{923}{3369}, \frac{308}{3369}, \frac{149}{1123}, -\frac{559}{3369}, \frac{811}{3369}, \frac{438}{1123}, -\frac{205}{1123}, -\frac{112}{3369}, \frac{755}{3369})$ $+ \frac{2}{1123}\sqrt{129766}e^6 \otimes e_8 + \frac{8}{3369}\sqrt{60605}e^5 \otimes e_7$	{1378, 14789, 358, 4589}
93:42	$0, 0, 0, 0, 0, 0, \frac{3}{1969}\sqrt{677}e^{12}, \frac{3}{1969}\sqrt{1191}e^{15} + \frac{6}{1969}\sqrt{78}e^{34},$ $\frac{6}{1969}\sqrt{179}e^{23} + \frac{3}{1969}\sqrt{482}e^{46}$	$(-\frac{9}{1969}, \frac{30}{1969}, -\frac{48}{1969}, \frac{69}{1969}, \frac{30}{1969}, -\frac{87}{1969}, \frac{21}{1969}, \frac{21}{1969}, -\frac{18}{1969})$ $+ \frac{3}{1969}\sqrt{1145}e^2 \otimes e_8 + \frac{3}{1969}\sqrt{1542}e^1 \otimes e_9 + \frac{3}{1969}\sqrt{943}e^5 \otimes e_7$	{1235, 178, 2479, 34589}
93:42	$0, 0, 0, 0, 0, 0, \frac{3}{1969}\sqrt{677}e^{12}, \frac{3}{1969}\sqrt{1191}e^{15} + \frac{6}{1969}\sqrt{78}e^{34},$ $\frac{6}{1969}\sqrt{179}e^{23} + \frac{3}{1969}\sqrt{482}e^{46}$	$(-\frac{9}{1969}, \frac{30}{1969}, -\frac{48}{1969}, \frac{69}{1969}, \frac{30}{1969}, -\frac{87}{1969}, \frac{21}{1969}, \frac{21}{1969}, -\frac{18}{1969})$ $+ \frac{3}{1969}\sqrt{1145}e^2 \otimes e_8 + \frac{3}{1969}\sqrt{1542}e^1 \otimes e_9 - \frac{3}{1969}\sqrt{943}e^5 \otimes e_7$	{1235, 178, 2479, 34589}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{559}\sqrt{45854}e^{12}, \frac{2}{559}\sqrt{25878}e^{15} + \frac{30}{559}\sqrt{227}e^{34},$ $\frac{2}{559}\sqrt{15209}e^{23} + \frac{2}{559}\sqrt{15663}e^{46}$	$(-\frac{3}{559}, -\frac{184}{559}, \frac{267}{559}, -\frac{71}{559}, \frac{199}{559}, \frac{154}{559}, -\frac{187}{559}, \frac{196}{559}, \frac{83}{559})$ $+ \frac{2}{559}\sqrt{107598}e^3 \otimes e_7$	{1234, 123568, 14578, 167, 246789, 2579, 34569, 389}
93:42	$0, 0, 0, 0, 0, 0, \frac{6}{97}\sqrt{5}e^{12}, \frac{6}{97}\sqrt{34}e^{15} + \frac{6}{97}\sqrt{10}e^{34},$ $\frac{6}{97}\sqrt{11}e^{23} + \frac{24}{97}\sqrt{2}e^{46}$	$(\frac{21}{97}, -\frac{6}{97}, \frac{9}{97}, -\frac{12}{97}, -\frac{24}{97}, \frac{15}{97}, \frac{15}{97}, -\frac{3}{97}, \frac{3}{97})$ $+ \frac{30}{97}\sqrt{2}e^1 \otimes e_9 + \frac{6}{97}\sqrt{37}e^6 \otimes e_8$	{14567, 178, 34589, 369}
93:42	$0, 0, 0, 0, 0, 0, \frac{10}{3217}\sqrt{27094}e^{12}, \frac{2}{3217}\sqrt{112654}e^{15} + \frac{22}{3217}\sqrt{3565}e^{34},$ $\frac{2}{3217}\sqrt{149017}e^{23} + \frac{6}{3217}\sqrt{12121}e^{46}$	$(\frac{435}{3217}, \frac{870}{3217}, -\frac{459}{3217}, -\frac{97}{3217}, -\frac{991}{3217}, \frac{508}{3217}, \frac{1305}{3217}, -\frac{556}{3217}, \frac{411}{3217})$ $+ \frac{12}{3217}\sqrt{23529}e^1 \otimes e_5 + \frac{186}{3217}\sqrt{138}e^2 \otimes e_8$	{13789, 1478, 3589, 458}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:42	$0, 0, 0, 0, 0, 0, \frac{16}{1107}\sqrt{1695e^{12}}, \frac{4}{369}\sqrt{1695e^{15}} + \frac{2}{1107}\sqrt{110514e^{34}},$ $\frac{10}{1107}\sqrt{2373e^{23}} + \frac{2}{369}\sqrt{565e^{46}}$	$(\frac{155}{369}, -\frac{13}{369}, -\frac{5}{123}, \frac{11}{41}, -\frac{71}{369}, -\frac{127}{369}, \frac{142}{369}, \frac{28}{123}, -\frac{28}{369})$ $+ \frac{2}{1107}\sqrt{169161e^1} \otimes e_5 + \frac{2}{1107}\sqrt{170178e^4} \otimes e_6$	{126, 1347, 2567, 345}
93:42	$0, 0, 0, 0, 0, 0, \frac{116}{4369}\sqrt{91e^{12}}, \frac{29}{4369}\sqrt{3130e^{15}} + \frac{29}{4369}\sqrt{1966e^{34}},$ $\frac{29}{4369}\sqrt{1382e^{23}} + \frac{29}{4369}\sqrt{2110e^{46}}$	$(\frac{580}{4369}, -\frac{58}{257}, \frac{725}{4369}, \frac{290}{4369}, \frac{435}{4369}, -\frac{551}{4369}, -\frac{406}{4369}, \frac{1015}{4369}, -\frac{261}{4369})$ $+ \frac{116}{4369}\sqrt{305e^1} \otimes e_9 + \frac{29}{4369}\sqrt{142e^4} \otimes e_6 + \frac{29}{4369}\sqrt{3134e^5} \otimes e_7$	{1235, 178}
93:42	$0, 0, 0, 0, 0, 0, \frac{20}{557}\sqrt{58e^{12}}, \frac{4}{557}\sqrt{406e^{15}} + \frac{2}{557}\sqrt{5945e^{34}},$ $\frac{20}{557}\sqrt{5191e^{23}} + \frac{2}{557}\sqrt{5133e^{46}}$	$(-\frac{99}{557}, \frac{24}{557}, \frac{19}{557}, -\frac{17}{557}, \frac{101}{557}, \frac{60}{557}, -\frac{75}{557}, \frac{2}{557}, \frac{43}{557})$ $+ \frac{16}{557}\sqrt{145e^4} \otimes e_7 + \frac{16}{557}\sqrt{87e^6} \otimes e_8$	{13578, 1679, 3456, 489}
93:42	$0, 0, 0, 0, 0, 0, \frac{5}{96}\sqrt{214e^{12}}, \frac{5}{96}\sqrt{214e^{15}} + \frac{1}{48}\sqrt{214e^{34}},$ $\frac{1}{48}\sqrt{214e^{23}} + \frac{1}{96}\sqrt{1819e^{46}}$	$(-\frac{65}{192}, -\frac{7}{192}, \frac{17}{64}, \frac{13}{96}, \frac{71}{96}, \frac{3}{32}, -\frac{3}{8}, \frac{77}{192}, \frac{11}{48})$ $+ \frac{1}{96}\sqrt{16799e^5} \otimes e_7$	{123569, 12456, 134678, 16789, 23679, 2467, 34568, 5689}
93:42	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{20119e^{12}}, \frac{1}{278}\sqrt{23870e^{15}} + \frac{1}{278}\sqrt{24211e^{34}},$ $\frac{1}{278}\sqrt{27962e^{23}} + \frac{3}{139}\sqrt{341e^{46}}$	$(\frac{195}{278}, -\frac{57}{556}, \frac{27}{139}, -\frac{5}{278}, -\frac{73}{139}, \frac{61}{556}, \frac{333}{278}, \frac{49}{556}, \frac{51}{556})$ $+ \frac{3}{278}\sqrt{17391e^1} \otimes e_5$	{12, 12349, 13467, 1679, 234579, 257, 3456, 569}
93:42	$0, 0, 0, 0, 0, 0, \frac{6}{3425}\sqrt{95358e^{12}}, \frac{54}{3425}\sqrt{598e^{15}} + \frac{18}{3425}\sqrt{7843e^{34}},$ $\frac{6}{3425}\sqrt{1311e^{23}} + \frac{6}{3425}\sqrt{16215e^{46}}$	$(\frac{931}{3425}, \frac{1064}{3425}, \frac{1109}{3425}, \frac{489}{3425}, -\frac{311}{3425}, \frac{534}{3425}, -\frac{133}{3425}, \frac{124}{685}, \frac{9}{685})$ $+ \frac{24}{3425}\sqrt{5658e^1} \otimes e_5 + \frac{6}{3425}\sqrt{125166e^3} \otimes e_7$	{123469, 179, 2567, 345}
93:42	$0, 0, 0, 0, 0, 0, \frac{74}{729}\sqrt{26e^{12}}, \frac{1}{243}\sqrt{4810e^{15}} + \frac{1}{729}\sqrt{131794e^{34}},$ $\frac{1}{729}\sqrt{66378e^{23}} + \frac{1}{729}\sqrt{4810e^{46}}$	$(-\frac{110}{729}, \frac{4}{729}, \frac{5}{243}, \frac{250}{729}, \frac{125}{243}, -\frac{77}{243}, -\frac{106}{729}, \frac{265}{729}, \frac{19}{729})$ $+ \frac{1}{729}\sqrt{297258e^4} \otimes e_6 + \frac{1}{729}\sqrt{324194e^5} \otimes e_7$	{123459, 14789, 23479, 4589}
93:42	$0, 0, 0, 0, 0, 0, \frac{42}{997}\sqrt{10e^{12}}, \frac{84}{997}\sqrt{5e^{15}} + \frac{14}{997}\sqrt{91e^{34}},$ $\frac{14}{997}\sqrt{273e^{23}} + \frac{14}{997}\sqrt{3e^{46}}$	$(-\frac{189}{997}, \frac{84}{997}, -\frac{7}{997}, -\frac{7}{997}, \frac{175}{997}, \frac{84}{997}, -\frac{105}{997}, -\frac{14}{997}, \frac{77}{997})$ $+ \frac{14}{997}\sqrt{274e^5} \otimes e_9 + \frac{14}{997}\sqrt{366e^2} \otimes e_8 + \frac{28}{997}\sqrt{69e^3} \otimes e_7$	{12345, 279}
93:42	$0, 0, 0, 0, 0, 0, \frac{48}{1735}\sqrt{154e^{12}}, \frac{16}{1735}\sqrt{3311e^{15}} + \frac{32}{1735}\sqrt{385e^{34}},$ $\frac{16}{1735}\sqrt{2310e^{23}} + \frac{16}{1735}\sqrt{3003e^{46}}$	$(\frac{726}{1735}, -\frac{294}{1735}, \frac{124}{1735}, \frac{363}{1735}, -\frac{239}{1735}, -\frac{533}{1735}, \frac{432}{1735}, \frac{487}{1735}, -\frac{34}{347})$ $+ \frac{16}{1735}\sqrt{8141e^1} \otimes e_9 + \frac{208}{1735}\sqrt{14e^4} \otimes e_6$	{2479, 256789, 34589, 369}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{557}\sqrt{870e^{12}}, \frac{4}{557}\sqrt{1914e^{15}} + \frac{2}{557}\sqrt{3335e^{34}},$ $\frac{2}{557}\sqrt{4089e^{23}} + \frac{2}{557}\sqrt{5133e^{46}}$	$(-\frac{99}{557}, \frac{24}{557}, \frac{19}{557}, -\frac{17}{557}, \frac{101}{557}, \frac{60}{557}, -\frac{75}{557}, \frac{2}{557}, \frac{43}{557})$ $+ \frac{16}{557}\sqrt{145e^5} \otimes e_9 + \frac{16}{557}\sqrt{87e^6} \otimes e_8$	{13489, 1456, 3679, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{181}\sqrt{518e^{12}}, \frac{4}{181}\sqrt{962e^{15}} + \frac{10}{181}\sqrt{111e^{34}},$ $\frac{2}{181}\sqrt{3145e^{23}} + \frac{2}{181}\sqrt{2109e^{46}}$	$(-\frac{27}{181}, -\frac{8}{181}, \frac{11}{181}, \frac{39}{181}, \frac{77}{181}, -\frac{36}{181}, -\frac{35}{181}, \frac{50}{181}, \frac{3}{181})$ $+ \frac{8}{181}\sqrt{370e^5} \otimes e_9$	{12357, 126789, 13489, 1456, 234568, 249, 3679, 578}
93:42	$0, 0, 0, 0, 0, 0, \frac{4}{149}\sqrt{231e^{12}}, \frac{2}{149}\sqrt{66e^{15}} + \frac{6}{149}\sqrt{165e^{34}},$ $\frac{2}{149}\sqrt{33e^{23}} + \frac{2}{149}\sqrt{3e^{46}}$	$(-\frac{13}{149}, -\frac{12}{149}, \frac{41}{149}, -\frac{39}{149}, \frac{15}{149}, \frac{68}{149}, -\frac{25}{149}, \frac{2}{149}, \frac{29}{149})$ $+ \frac{2}{149}\sqrt{2046e^6} \otimes e_8 + \frac{2}{149}\sqrt{2310e^3} \otimes e_7$	{123456, 1238, 245789, 2679}
93:42	$0, 0, 0, 0, 0, 0, \frac{26}{2809}\sqrt{2318e^{12}}, \frac{4}{2809}\sqrt{55510e^{15}} + \frac{2}{2809}\sqrt{344955e^{34}},$ $\frac{2}{2809}\sqrt{310063e^{23}} + \frac{10}{2809}\sqrt{18239e^{46}}$	$(\frac{597}{2809}, \frac{228}{2809}, \frac{287}{2809}, -\frac{679}{2809}, -\frac{989}{2809}, \frac{1194}{2809}, \frac{825}{2809}, -\frac{392}{2809}, \frac{515}{2809})$ $+ \frac{104}{2809}\sqrt{305e^1} \otimes e_5 + \frac{2}{2809}\sqrt{1140334e^6} \otimes e_8$	{1378, 14789, 358, 4589}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{3337}\sqrt{286054e^{12}}, \frac{4}{3337}\sqrt{36895e^{15}} + \frac{2}{3337}\sqrt{191069e^{34}},$ $\frac{2}{3337}\sqrt{186673e^{23}} + \frac{6}{3337}\sqrt{13031e^{46}}$	$(\frac{405}{3337}, -\frac{414}{3337}, \frac{191}{3337}, \frac{305}{3337}, \frac{91}{3337}, -\frac{528}{3337}, -\frac{9}{3337}, \frac{496}{3337}, -\frac{223}{3337})$ $+ \frac{10}{3337}\sqrt{12874e^4} \otimes e_7 + \frac{4}{3337}\sqrt{41919e^1} \otimes e_5$	{12349, 1679, 257, 3456}
93:42	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{86e^{12}}, \frac{2}{49}\sqrt{26e^{15}} + \frac{4}{49}\sqrt{19e^{34}},$ $\frac{12}{49}e^{23} + \frac{2}{49}\sqrt{30e^{46}}$	$(-\frac{3}{14}, \frac{17}{98}, -\frac{11}{98}, \frac{6}{49}, \frac{11}{49}, -\frac{3}{49}, -\frac{2}{49}, \frac{1}{98}, \frac{3}{49})$ $+ \frac{2}{49}\sqrt{66e^2} \otimes e_8 + \frac{8}{49}\sqrt{7e^4} \otimes e_7$	{12349, 13578, 257, 489}
93:42	$0, 0, 0, 0, 0, 0, \frac{525}{5389}\sqrt{2e^{12}}, \frac{15}{5389}\sqrt{2126e^{15}} + \frac{60}{5389}\sqrt{46e^{34}},$ $\frac{15}{5389}\sqrt{1302e^{23}} + \frac{30}{5389}\sqrt{618e^{46}}$	$(\frac{360}{5389}, -\frac{30}{5389}, \frac{165}{5389}, -\frac{420}{5389}, -\frac{615}{5389}, \frac{555}{5389}, \frac{330}{5389}, -\frac{15}{317}, \frac{135}{5389})$ $+ \frac{15}{5389}\sqrt{2686e^6} \otimes e_7 + \frac{300}{5389}\sqrt{11e^1} \otimes e_9 + \frac{30}{5389}\sqrt{699e^2} \otimes e_8$	{178, 2479}
93:42	$0, 0, 0, 0, 0, 0, \frac{9}{1477}\sqrt{2346e^{12}}, \frac{18}{1477}\sqrt{366e^{15}} + \frac{9}{1477}\sqrt{1434e^{34}},$ $\frac{54}{1477}\sqrt{10e^{23}} + \frac{108}{1477}\sqrt{23e^{46}}$	$(\frac{249}{1477}, -\frac{312}{1477}, \frac{318}{1477}, -\frac{174}{1477}, -\frac{15}{211}, \frac{180}{1477}, -\frac{9}{211}, \frac{144}{1477}, \frac{6}{1477})$ $+ \frac{9}{1477}\sqrt{3558e^6} \otimes e_7 + \frac{9}{1477}\sqrt{4470e^1} \otimes e_9$	{123468, 178, 2479, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:42	$0, 0, 0, 0, 0, 0, \frac{1}{407}\sqrt{23701}e^{12}, \frac{1}{407}\sqrt{6055}e^{15} + \frac{1}{407}\sqrt{46018}e^{34},$ $\frac{1}{407}\sqrt{10726}e^{23} + \frac{9}{407}\sqrt{173}e^{46}$	$(-\frac{87}{814}, \frac{309}{814}, -\frac{243}{814}, \frac{103}{407}, \frac{25}{407}, -\frac{70}{407}, \frac{3}{11}, -\frac{1}{22}, \frac{3}{37})$ $+ \frac{3}{407}\sqrt{5882}e^4 \otimes e_6 + \frac{3}{407}\sqrt{8131}e^2 \otimes e_8$	{12345, 1478, 2347, 458}
93:42	$0, 0, 0, 0, 0, 0, \frac{5}{307}\sqrt{174}e^{12}, \frac{15}{307}\sqrt{62}e^{15} + \frac{10}{307}\sqrt{62}e^{34},$ $\frac{10}{307}\sqrt{123}e^{23} + \frac{15}{307}\sqrt{22}e^{46}$	$(-\frac{135}{614}, \frac{105}{614}, -\frac{65}{614}, \frac{35}{307}, \frac{70}{307}, -\frac{15}{307}, -\frac{15}{307}, \frac{5}{614}, \frac{20}{307})$ $+ \frac{10}{307}\sqrt{181}e^5 \otimes e_9 + \frac{10}{307}\sqrt{6}e^4 \otimes e_6 + \frac{15}{307}\sqrt{46}e^2 \otimes e_8$	{12357, 578}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{1229}\sqrt{23205}e^{12} + \frac{1}{1229}\sqrt{1500590}e^{34}, \frac{1}{1229}\sqrt{343434}e^{15},$ $\frac{1}{1229}\sqrt{71162}e^{23} + \frac{1}{1229}\sqrt{256802}e^{46}$	$(\frac{222}{1229}, \frac{356}{1229}, -\frac{249}{1229}, \frac{827}{1229}, \frac{102}{1229}, -\frac{720}{1229}, \frac{578}{1229}, \frac{324}{1229}, \frac{107}{1229})$ $+ \frac{4}{1229}\sqrt{196469}e^4 \otimes e_6$	{12457, 12478, 1345, 1348, 2568, 26, 35678, 367}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{2449}\sqrt{14133}e^{12} + \frac{2}{2449}\sqrt{312945}e^{34}, \frac{10}{2449}\sqrt{14806}e^{15},$ $\frac{12}{2449}\sqrt{4711}e^{23} + \frac{26}{2449}\sqrt{2019}e^{46}$	$(\frac{381}{2449}, \frac{468}{2449}, \frac{87}{2449}, \frac{762}{2449}, -\frac{965}{2449}, -\frac{207}{2449}, \frac{849}{2449}, -\frac{584}{2449}, \frac{555}{2449})$ $+ \frac{2}{2449}\sqrt{481195}e^1 \otimes e_5 + \frac{2}{2449}\sqrt{965082}e^4 \otimes e_8$	{128, 1378, 2356789, 5689}
93:43	$0, 0, 0, 0, 0, 0, \frac{12}{3161}\sqrt{17157}e^{12} + \frac{6}{3161}\sqrt{60114}e^{34}, \frac{48}{3161}\sqrt{129}e^{15},$ $\frac{18}{3161}\sqrt{3311}e^{23} + \frac{6}{3161}\sqrt{4515}e^{46}$	$(\frac{1299}{3161}, \frac{39}{3161}, \frac{105}{3161}, \frac{1233}{3161}, -\frac{1023}{3161}, -\frac{1089}{3161}, \frac{1338}{3161}, \frac{276}{3161}, \frac{144}{3161})$ $+ \frac{6}{3161}\sqrt{179826}e^4 \otimes e_6 + \frac{6}{3161}\sqrt{184083}e^1 \otimes e_5$	{12349, 1479, 235679, 569}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{1627}\sqrt{120830}e^{12} + \frac{2}{1627}\sqrt{66435}e^{34}, \frac{2}{1627}\sqrt{68370}e^{15},$ $\frac{1}{1627}\sqrt{138030}e^{23} + \frac{1}{1627}\sqrt{114810}e^{46}$	$(-\frac{217}{1627}, \frac{98}{1627}, \frac{94}{1627}, \frac{213}{1627}, \frac{96}{1627}, \frac{405}{1627}, -\frac{119}{1627}, -\frac{121}{1627}, \frac{192}{1627})$ $+ \frac{5}{1627}\sqrt{15394}e^3 \otimes e_8 + \frac{6}{1627}\sqrt{7095}e^5 \otimes e_7$	{1246789, 134569, 2589, 379}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{226}e^{12} + \frac{1}{383}\sqrt{170}e^{34}, \frac{1}{383}\sqrt{302}e^{15},$ $\frac{1}{383}\sqrt{258}e^{23} + \frac{1}{383}\sqrt{38}e^{46}$	$(-\frac{12}{383}, \frac{10}{383}, -\frac{5}{383}, \frac{3}{383}, \frac{6}{383}, \frac{2}{383}, -\frac{2}{383}, -\frac{6}{383}, \frac{5}{383})$ $+ \frac{1}{383}\sqrt{262}e^5 \otimes e_9 + \frac{1}{383}\sqrt{366}e^3 \otimes e_8 + \frac{1}{383}\sqrt{86}e^4 \otimes e_6$	{123567, 4578}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{567}\sqrt{3094}e^{12} + \frac{8}{567}\sqrt{1547}e^{34}, \frac{2}{567}\sqrt{12614}e^{15},$ $\frac{8}{567}\sqrt{357}e^{23} + \frac{2}{81}\sqrt{85}e^{46}$	$(-\frac{11}{81}, \frac{11}{81}, -\frac{5}{27}, \frac{5}{27}, \frac{34}{81}, -\frac{19}{81}, 0, \frac{23}{81}, -\frac{4}{81})$ $+ \frac{2}{567}\sqrt{26537}e^4 \otimes e_6 + \frac{34}{567}\sqrt{119}e^5 \otimes e_7$	{1256, 13678, 247, 3458}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{4169}\sqrt{156187}e^{12} + \frac{2}{4169}\sqrt{114245}e^{34}, \frac{4}{4169}\sqrt{121757}e^{15},$ $\frac{2}{4169}\sqrt{209710}e^{23} + \frac{4}{4169}\sqrt{100786}e^{46}$	$(-\frac{63}{379}, \frac{193}{4169}, \frac{59}{4169}, -\frac{559}{4169}, \frac{878}{4169}, \frac{811}{4169}, -\frac{500}{4169}, \frac{185}{4169}, \frac{252}{4169})$ $+ \frac{2}{4169}\sqrt{543055}e^6 \otimes e_8 + \frac{6}{4169}\sqrt{71990}e^5 \otimes e_9$	{1234567, 1456, 2358, 578}
93:43	$0, 0, 0, 0, 0, 0, \frac{20}{1337}\sqrt{703}e^{12} + \frac{1}{1337}\sqrt{136382}e^{34}, \frac{1}{1337}\sqrt{532874}e^{15},$ $\frac{19}{1337}\sqrt{1110}e^{23} + \frac{37}{1337}\sqrt{190}e^{46}$	$(-\frac{18}{1337}, \frac{76}{1337}, -\frac{221}{1337}, \frac{279}{1337}, \frac{558}{1337}, -\frac{424}{1337}, \frac{58}{1337}, \frac{540}{1337}, -\frac{145}{1337})$ $+ \frac{20}{1337}\sqrt{1406}e^4 \otimes e_6 + \frac{4}{1337}\sqrt{68191}e^5 \otimes e_9$	{124789, 13489, 269, 3679}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{10}e^{12} + \frac{2}{43}\sqrt{10}e^{34}, \frac{2}{43}\sqrt{30}e^{15},$ $\frac{4}{43}\sqrt{5}e^{23} + \frac{4}{43}\sqrt{5}e^{46}$	$(\frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{14}{43}e^1 \otimes e_9 + \frac{2}{43}\sqrt{29}e^6 \otimes e_7 + \frac{2}{43}\sqrt{39}e^3 \otimes e_8$	{123456, 245789}
93:43	$0, 0, 0, 0, 0, 0, \frac{60}{1481}\sqrt{37}e^{12} + \frac{30}{1481}\sqrt{133}e^{34}, \frac{90}{1481}\sqrt{6}e^{15},$ $\frac{73}{1481}\sqrt{23}e^{23} + \frac{90}{1481}\sqrt{23}e^{46}$	$(-\frac{30}{1481}, \frac{105}{1481}, \frac{135}{1481}, -\frac{60}{1481}, -\frac{255}{1481}, \frac{300}{1481}, \frac{75}{1481}, -\frac{285}{1481}, \frac{240}{1481})$ $+ \frac{15}{1481}\sqrt{1013}e^4 \otimes e_8 + \frac{15}{1481}\sqrt{1201}e^6 \otimes e_7 + \frac{15}{1481}\sqrt{521}e^1 \otimes e_5$	{1378, 5689}
93:43	$0, 0, 0, 0, 0, 0, \frac{6}{4001}\sqrt{16599}e^{12} + \frac{48}{4001}\sqrt{330}e^{34}, \frac{66}{4001}\sqrt{318}e^{15},$ $\frac{90}{4001}\sqrt{55}e^{23} + \frac{18}{4001}\sqrt{5214}e^{46}$	$(\frac{741}{4001}, -\frac{498}{4001}, \frac{645}{4001}, -\frac{402}{4001}, -\frac{786}{4001}, \frac{549}{4001}, \frac{243}{4001}, -\frac{45}{4001}, \frac{147}{4001})$ $+ \frac{6}{4001}\sqrt{52503}e^6 \otimes e_8 + \frac{6}{4001}\sqrt{66990}e^1 \otimes e_9$	{1238, 178, 2679, 369}
93:43	$0, 0, 0, 0, 0, 0, \frac{6}{437}\sqrt{445}e^{12} + \frac{4}{437}\sqrt{267}e^{34}, \frac{2}{437}\sqrt{6141}e^{15},$ $\frac{4}{437}\sqrt{445}e^{23} + \frac{6}{437}\sqrt{1335}e^{46}$	$(-\frac{63}{437}, -\frac{14}{437}, \frac{1}{23}, -\frac{96}{437}, \frac{183}{437}, \frac{101}{437}, -\frac{77}{437}, \frac{120}{437}, \frac{5}{437})$ $+ \frac{2}{437}\sqrt{16465}e^6 \otimes e_7 + \frac{2}{437}\sqrt{17889}e^5 \otimes e_9$	{123456, 12689, 23578, 2479}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{3441}\sqrt{156387}e^{12} + \frac{2}{3441}\sqrt{328345}e^{34}, \frac{2}{3441}\sqrt{724390}e^{15},$ $\frac{20}{3441}\sqrt{2031}e^{23} + \frac{2}{3441}\sqrt{380474}e^{46}$	$(-\frac{923}{3441}, \frac{149}{3441}, \frac{193}{3441}, -\frac{223}{3441}, \frac{878}{3441}, \frac{1309}{3441}, -\frac{476}{3441}, -\frac{15}{3441}, \frac{640}{3441})$ $+ \frac{2}{3441}\sqrt{1010761}e^6 \otimes e_8 + \frac{2}{3441}\sqrt{1062890}e^5 \otimes e_7$	{1378, 14789, 23679, 2467}
93:43	$0, 0, 0, 0, 0, 0, \frac{198}{1741}\sqrt{10}e^{12} + \frac{55}{1741}\sqrt{174}e^{34}, \frac{33}{1741}\sqrt{386}e^{15},$ $\frac{33}{1741}\sqrt{302}e^{23} + \frac{11}{1741}\sqrt{2082}e^{46}$	$(\frac{98}{1741}, \frac{224}{1741}, \frac{19}{1741}, \frac{303}{1741}, -\frac{442}{1741}, -\frac{60}{1741}, \frac{322}{1741}, -\frac{344}{1741}, \frac{243}{1741})$ $+ \frac{22}{1741}\sqrt{1590}e^3 \otimes e_8 + \frac{88}{1741}\sqrt{51}e^4 \otimes e_6$	{123567, 168, 234, 4578}
93:43	$0, 0, 0, 0, 0, 0, \frac{6}{1279}\sqrt{11823}e^{12} + \frac{4}{1279}\sqrt{3378}e^{34}, \frac{8}{1279}\sqrt{1689}e^{15},$ $\frac{1}{1279}\sqrt{1126}e^{23} + \frac{1}{1279}\sqrt{266862}e^{46}$	$(-\frac{327}{1279}, \frac{287}{1279}, \frac{98}{1279}, -\frac{138}{1279}, \frac{51}{1279}, \frac{523}{1279}, -\frac{40}{1279}, -\frac{276}{1279}, \frac{385}{1279})$ $+ \frac{1}{1279}\sqrt{584394}e^2 \otimes e_8 + \frac{1}{1279}\sqrt{690238}e^6 \otimes e_7$	{123456, 12569, 237, 2479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:43	$0, 0, 0, 0, 0, 0, \frac{28}{3337}\sqrt{58}e^{12} + \frac{14}{3337}\sqrt{505}e^{34}, \frac{42}{3337}\sqrt{115}e^{15},$ $\frac{14}{3337}\sqrt{41}e^{23} + \frac{14}{3337}\sqrt{646}e^{46}$	$(-\frac{7}{3337}, \frac{84}{3337}, -\frac{189}{3337}, \frac{266}{3337}, \frac{175}{3337}, -\frac{371}{3337}, \frac{77}{3337}, \frac{168}{3337}, -\frac{105}{3337})$ $+ \frac{14}{3337}\sqrt{1142}e^4 \otimes e_8 + \frac{14}{3337}\sqrt{935}e^5 \otimes e_7 + \frac{14}{3337}\sqrt{985}e^1 \otimes e_9$	{1378, 5689}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{1289}\sqrt{125895}e^{12} + \frac{14}{1289}\sqrt{4785}e^{34}, \frac{21}{1289}\sqrt{1870}e^{15},$ $\frac{16}{1289}\sqrt{1155}e^{23} + \frac{1}{1289}\sqrt{43890}e^{46}$	$(-\frac{354}{1289}, \frac{131}{1289}, -\frac{57}{1289}, -\frac{166}{1289}, \frac{932}{1289}, \frac{240}{1289}, -\frac{223}{1289}, \frac{578}{1289}, \frac{74}{1289})$ $+ \frac{6}{1289}\sqrt{68530}e^5 \otimes e_7$	{1234569, 1256, 13678, 146789, 2379, 247, 3458, 589}
93:43	$0, 0, 0, 0, 0, 0, \frac{19}{1109}\sqrt{622}e^{12} + \frac{19}{1109}\sqrt{258}e^{34}, \frac{38}{1109}\sqrt{6}e^{15},$ $\frac{76}{1109}\sqrt{15}e^{23} + \frac{19}{1109}\sqrt{390}e^{46}$	$(\frac{133}{1109}, -\frac{95}{1109}, \frac{266}{1109}, -\frac{228}{1109}, \frac{228}{1109}, \frac{399}{1109}, \frac{38}{1109}, -\frac{95}{1109}, \frac{171}{1109})$ $+ \frac{19}{1109}\sqrt{358}e^3 \otimes e_8 + \frac{38}{1109}\sqrt{249}e^6 \otimes e_7 + \frac{76}{1109}\sqrt{42}e^1 \otimes e_5$	{137, 3456}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{2893}\sqrt{146355}e^{12} + \frac{2}{2893}\sqrt{62090}e^{34}, \frac{18}{2893}\sqrt{6209}e^{15},$ $\frac{4}{2893}\sqrt{116197}e^{23} + \frac{2}{2893}\sqrt{133937}e^{46}$	$(-\frac{381}{2893}, \frac{107}{263}, -\frac{453}{2893}, \frac{1249}{2893}, -\frac{216}{2893}, -\frac{525}{2893}, \frac{796}{2893}, -\frac{597}{2893}, \frac{724}{2893})$ $+ \frac{2}{2893}\sqrt{1343805}e^2 \otimes e_8 + \frac{2}{2893}\sqrt{910949}e^4 \otimes e_6$	{12345, 1478, 2367, 568}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{915}e^{12} + \frac{1}{257}\sqrt{31110}e^{34}, \frac{3}{257}\sqrt{4026}e^{15},$ $\frac{4}{257}\sqrt{8418}e^{23} + \frac{1}{257}\sqrt{23790}e^{46}$	$(-\frac{18}{257}, \frac{104}{257}, -\frac{21}{257}, \frac{107}{257}, -\frac{58}{257}, -\frac{24}{257}, \frac{86}{257}, -\frac{76}{257}, \frac{83}{257})$ $+ \frac{36}{257}\sqrt{61}e^4 \otimes e_8$	{1236789, 124567, 13456, 1689, 2349, 258, 3578, 479}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{307}\sqrt{8642}e^{12} + \frac{1}{307}\sqrt{36654}e^{34}, \frac{1}{307}\sqrt{42018}e^{15},$ $\frac{2}{307}\sqrt{36654}e^{23} + \frac{1}{307}\sqrt{20562}e^{46}$	$(\frac{14}{307}, \frac{32}{307}, \frac{61}{307}, -\frac{15}{307}, -\frac{102}{307}, \frac{108}{307}, \frac{46}{307}, -\frac{88}{307}, \frac{93}{307})$ $+ \frac{2}{307}\sqrt{19966}e^3 \otimes e_8$	{123567, 1246789, 134569, 168, 234, 2589, 379, 4578}
93:43	$0, 0, 0, 0, 0, 0, \frac{3}{259}\sqrt{371}e^{12} + \frac{3}{259}\sqrt{714}e^{34}, \frac{9}{259}\sqrt{91}e^{15},$ $\frac{3}{259}\sqrt{182}e^{23} + \frac{6}{37}e^{46}$	$(-\frac{9}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $+ \frac{3}{259}\sqrt{1393}e^5 \otimes e_7 + \frac{3}{259}\sqrt{798}e^4 \otimes e_6 + \frac{3}{37}\sqrt{23}e^2 \otimes e_8$	{12345, 1478, 2367, 568}
93:43	$0, 0, 0, 0, 0, 0, \frac{3}{259}\sqrt{371}e^{12} + \frac{3}{259}\sqrt{714}e^{34}, \frac{9}{259}\sqrt{91}e^{15},$ $\frac{3}{259}\sqrt{182}e^{23} + \frac{6}{37}e^{46}$	$(-\frac{9}{37}, \frac{9}{37}, -\frac{6}{37}, \frac{6}{37}, \frac{9}{37}, -\frac{3}{37}, 0, 0, \frac{3}{37})$ $- \frac{3}{259}\sqrt{1393}e^5 \otimes e_7 + \frac{3}{259}\sqrt{798}e^4 \otimes e_6 + \frac{3}{37}\sqrt{23}e^2 \otimes e_8$	{12345, 1478, 2367, 568}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{769}\sqrt{118938}e^{12} + \frac{2}{769}\sqrt{13830}e^{34}, \frac{1}{769}\sqrt{106030}e^{15},$ $\frac{2}{769}\sqrt{13830}e^{23} + \frac{6}{769}\sqrt{5071}e^{46}$	$(\frac{138}{769}, \frac{18}{769}, \frac{207}{769}, -\frac{51}{769}, -\frac{323}{769}, \frac{276}{769}, \frac{156}{769}, -\frac{185}{769}, \frac{225}{769})$ $+ \frac{1}{769}\sqrt{271990}e^1 \otimes e_5 + \frac{6}{769}\sqrt{39646}e^6 \otimes e_8$	{2345789, 2578, 358, 4589}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{383}\sqrt{365}e^{12} + \frac{1}{383}\sqrt{6862}e^{34}, \frac{1}{383}\sqrt{20586}e^{15},$ $\frac{1}{383}\sqrt{17958}e^{23} + \frac{1}{383}\sqrt{1022}e^{46}$	$(\frac{90}{383}, -\frac{44}{383}, \frac{61}{383}, -\frac{15}{383}, -\frac{102}{383}, \frac{32}{383}, \frac{46}{383}, -\frac{12}{383}, \frac{17}{383})$ $+ \frac{4}{383}\sqrt{1387}e^1 \otimes e_9 + \frac{8}{383}\sqrt{438}e^3 \otimes e_8$	{12357, 18, 25689, 3679}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{347}\sqrt{1023}e^{12} + \frac{28}{347}\sqrt{3}e^{34}, \frac{12}{347}\sqrt{29}e^{15},$ $\frac{8}{347}\sqrt{15}e^{23} + \frac{4}{347}\sqrt{1110}e^{46}$	$(\frac{58}{347}, -\frac{72}{347}, \frac{58}{347}, -\frac{72}{347}, \frac{6}{347}, \frac{58}{347}, -\frac{14}{347}, \frac{64}{347}, -\frac{14}{347})$ $+ \frac{4}{347}\sqrt{1317}e^6 \otimes e_7 + \frac{4}{347}\sqrt{1491}e^1 \otimes e_9$	{12456, 12468, 2345789, 23479}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{3899}\sqrt{5307}e^{12} + \frac{4}{3899}\sqrt{114405}e^{34}, \frac{24}{3899}\sqrt{3190}e^{15},$ $\frac{8}{3899}\sqrt{9831}e^{23} + \frac{4}{3899}\sqrt{40629}e^{46}$	$(-\frac{894}{3899}, \frac{878}{3899}, -\frac{498}{3899}, \frac{482}{3899}, \frac{680}{3899}, -\frac{102}{3899}, -\frac{16}{3899}, -\frac{214}{3899}, \frac{380}{3899})$ $+ \frac{12}{3899}\sqrt{15805}e^5 \otimes e_7 + \frac{12}{3899}\sqrt{18357}e^4 \otimes e_8$	{1236789, 13456, 258, 479}
93:43	$0, 0, 0, 0, 0, 0, \frac{76}{3213}\sqrt{290}e^{12} + \frac{38}{3213}\sqrt{17}e^{34}, \frac{38}{3213}\sqrt{34}e^{15},$ $\frac{76}{1071}\sqrt{6}e^{23} + \frac{38}{3213}\sqrt{563}e^{46}$	$(\frac{19}{1071}, \frac{38}{1071}, \frac{475}{3213}, -\frac{304}{3213}, -\frac{95}{459}, \frac{893}{3213}, \frac{19}{357}, -\frac{608}{3213}, \frac{589}{3213})$ $+ \frac{152}{3213}\sqrt{51}e^2 \otimes e_8 - \frac{38}{3213}\sqrt{1214}e^6 \otimes e_7 + \frac{38}{3213}\sqrt{941}e^1 \otimes e_5$	{12369, 1246, 234579, 257}
93:43	$0, 0, 0, 0, 0, 0, \frac{76}{3213}\sqrt{290}e^{12} + \frac{38}{3213}\sqrt{17}e^{34}, \frac{38}{3213}\sqrt{34}e^{15},$ $\frac{76}{1071}\sqrt{6}e^{23} + \frac{38}{3213}\sqrt{563}e^{46}$	$(\frac{19}{1071}, \frac{38}{1071}, \frac{475}{3213}, -\frac{304}{3213}, -\frac{95}{459}, \frac{893}{3213}, \frac{19}{357}, -\frac{608}{3213}, \frac{589}{3213})$ $+ \frac{152}{3213}\sqrt{51}e^2 \otimes e_8 + \frac{38}{3213}\sqrt{1214}e^6 \otimes e_7 + \frac{38}{3213}\sqrt{941}e^1 \otimes e_5$	{12369, 1246, 234579, 257}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{257}\sqrt{915}e^{12} + \frac{1}{257}\sqrt{8418}e^{34}, \frac{3}{257}\sqrt{4026}e^{15},$ $\frac{1}{257}\sqrt{31110}e^{23} + \frac{1}{257}\sqrt{23790}e^{46}$	$(-\frac{18}{257}, -\frac{4}{257}, -\frac{21}{257}, -\frac{1}{257}, \frac{158}{257}, -\frac{24}{257}, -\frac{22}{257}, \frac{140}{257}, -\frac{25}{257})$ $+ \frac{36}{257}\sqrt{61}e^5 \otimes e_9$	{1234567, 126789, 13689, 1456, 2358, 249, 3479, 578}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{494}e^{12} + \frac{2}{29}\sqrt{3}e^{34}, \frac{2}{377}\sqrt{858}e^{15},$ $\frac{5}{377}\sqrt{78}e^{23} + \frac{2}{377}\sqrt{26}e^{46}$	$(\frac{1}{29}, -\frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, 0, \frac{3}{29}, -\frac{1}{29}, \frac{1}{29}, 0)$ $+ \frac{1}{377}\sqrt{3874}e^3 \otimes e_8 + \frac{2}{377}\sqrt{663}e^5 \otimes e_7 + \frac{8}{377}\sqrt{39}e^1 \otimes e_9$	{2589, 379}
93:43	$0, 0, 0, 0, 0, 0, \frac{10}{763}\sqrt{413}e^{12} + \frac{5}{763}\sqrt{1162}e^{34}, \frac{10}{763}\sqrt{602}e^{15},$ $\frac{25}{763}\sqrt{14}e^{23} + \frac{10}{109}\sqrt{6}e^{46}$	$(\frac{10}{109}, -\frac{10}{109}, -\frac{5}{109}, \frac{5}{109}, \frac{25}{109}, -\frac{20}{109}, 0, \frac{35}{109}, -\frac{15}{109})$ $+ \frac{10}{763}\sqrt{959}e^5 \otimes e_7 + \frac{5}{109}\sqrt{82}e^1 \otimes e_9 + \frac{5}{763}\sqrt{1806}e^4 \otimes e_6$	{2479, 34589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:43	$0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{13}e^{12} + \frac{4}{169}\sqrt{39}e^{34}, \frac{6}{169}\sqrt{65}e^{15},$ $\frac{4}{169}\sqrt{130}e^{23} + \frac{6}{169}\sqrt{39}e^{46}$	$(-\frac{3}{13}, \frac{2}{13}, -\frac{1}{13}, 0, \frac{3}{13}, \frac{1}{13}, -\frac{1}{13}, 0, \frac{1}{13})$ $+ \frac{10}{169}\sqrt{13}e^6 \otimes e_7 + \frac{2}{169}\sqrt{897}e^5 \otimes e_9 + \frac{4}{169}\sqrt{195}e^2 \otimes e_8$	{134789, 4568}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{3145}\sqrt{303278}e^{12} + \frac{2}{3145}\sqrt{12673}e^{34}, \frac{38}{3145}\sqrt{989}e^{15},$ $\frac{2}{3145}\sqrt{94829}e^{23} + \frac{2}{3145}\sqrt{61617}e^{46}$	$(\frac{427}{3145}, -\frac{556}{3145}, \frac{109}{3145}, -\frac{14}{185}, \frac{149}{629}, -\frac{209}{3145}, -\frac{129}{3145}, \frac{1172}{3145}, -\frac{447}{3145})$ $+ \frac{2}{3145}\sqrt{527459}e^5 \otimes e_7 + \frac{2}{3145}\sqrt{691771}e^1 \otimes e_9$	{123456, 14678, 2479, 34589}
93:43	$0, 0, 0, 0, 0, 0, \frac{3}{2189}\sqrt{226}e^{12} + \frac{1}{2189}\sqrt{834}e^{34}, \frac{2}{2189}\sqrt{606}e^{15},$ $\frac{4}{2189}\sqrt{145}e^{23} + \frac{1}{2189}\sqrt{58}e^{46}$	$(-\frac{27}{2189}, \frac{25}{2189}, -\frac{14}{2189}, \frac{12}{2189}, \frac{12}{2189}, -\frac{1}{2189}, -\frac{2}{2189}, -\frac{15}{2189}, \frac{1}{2189})$ $+ \frac{2}{2189}\sqrt{215}e^6 \otimes e_7 + \frac{3}{2189}\sqrt{310}e^3 \otimes e_8 + \frac{8}{2189}\sqrt{33}e^5 \otimes e_9$	{123567, 1246789}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{3899}\sqrt{5307}e^{12} + \frac{8}{3899}\sqrt{9831}e^{34}, \frac{24}{3899}\sqrt{3190}e^{15},$ $\frac{4}{3899}\sqrt{114405}e^{23} + \frac{4}{3899}\sqrt{40629}e^{46}$	$(-\frac{894}{3899}, \frac{746}{3899}, -\frac{498}{3899}, \frac{50}{557}, \frac{944}{3899}, -\frac{102}{3899}, -\frac{148}{3899}, \frac{50}{3899}, \frac{248}{3899})$ $+ \frac{12}{3899}\sqrt{15805}e^2 \otimes e_8 + \frac{12}{3899}\sqrt{18357}e^5 \otimes e_9$	{1234567, 13689, 249, 578}
93:43	$0, 0, 0, 0, 0, 0, \frac{21}{1969}\sqrt{17}e^{12} + \frac{6}{1969}\sqrt{78}e^{34}, \frac{9}{1969}\sqrt{115}e^{15},$ $\frac{6}{1969}\sqrt{179}e^{23} + \frac{6}{1969}\sqrt{482}e^{46}$	$(-\frac{9}{1969}, \frac{30}{1969}, -\frac{48}{1969}, \frac{69}{1969}, \frac{30}{1969}, -\frac{87}{1969}, \frac{21}{1969}, \frac{21}{1969}, -\frac{18}{1969})$ $+ \frac{3}{1969}\sqrt{1301}e^2 \otimes e_8 + \frac{3}{1969}\sqrt{1542}e^1 \otimes e_9 + \frac{3}{1969}\sqrt{787}e^5 \otimes e_7$	{1235, 178, 2679, 35689}
93:43	$0, 0, 0, 0, 0, 0, \frac{21}{1969}\sqrt{17}e^{12} + \frac{6}{1969}\sqrt{78}e^{34}, \frac{9}{1969}\sqrt{115}e^{15},$ $\frac{6}{1969}\sqrt{179}e^{23} + \frac{6}{1969}\sqrt{482}e^{46}$	$(-\frac{9}{1969}, \frac{30}{1969}, -\frac{48}{1969}, \frac{69}{1969}, \frac{30}{1969}, -\frac{87}{1969}, \frac{21}{1969}, \frac{21}{1969}, -\frac{18}{1969})$ $+ \frac{3}{1969}\sqrt{1301}e^2 \otimes e_8 + \frac{3}{1969}\sqrt{1542}e^1 \otimes e_9 - \frac{3}{1969}\sqrt{787}e^5 \otimes e_7$	{1235, 178, 2679, 35689}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{304}\sqrt{97266}e^{12} + \frac{1}{304}\sqrt{21489}e^{34}, \frac{13}{152}\sqrt{29}e^{15},$ $\frac{1}{304}\sqrt{21489}e^{23} + \frac{1}{152}\sqrt{754}e^{46}$	$(\frac{201}{304}, -\frac{99}{608}, \frac{27}{608}, \frac{87}{608}, -\frac{11}{19}, \frac{15}{304}, \frac{303}{608}, \frac{25}{304}, \frac{117}{608})$ $+ \frac{1}{304}\sqrt{190762}e^1 \otimes e_5$	{12369, 1246, 13467, 1679, 234579, 257, 35, 459}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{1289}\sqrt{125895}e^{12} + \frac{16}{1289}\sqrt{1155}e^{34}, \frac{21}{1289}\sqrt{1870}e^{15},$ $\frac{14}{1289}\sqrt{4785}e^{23} + \frac{1}{1289}\sqrt{43890}e^{46}$	$(-\frac{354}{1289}, \frac{665}{1289}, -\frac{57}{1289}, \frac{368}{1289}, -\frac{136}{1289}, \frac{240}{1289}, \frac{311}{1289}, -\frac{490}{1289}, \frac{608}{1289})$ $+ \frac{6}{1289}\sqrt{68530}e^2 \otimes e_8$	{12356, 124569, 1346789, 1678, 2347, 279, 3589, 458}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{1017}\sqrt{807}e^{12} + \frac{44}{1017}\sqrt{3}e^{34}, \frac{4}{339}\sqrt{61}e^{15},$ $\frac{8}{1017}\sqrt{111}e^{23} + \frac{4}{1017}\sqrt{678}e^{46}$	$(\frac{6}{113}, -\frac{8}{339}, \frac{6}{113}, -\frac{8}{339}, -\frac{34}{339}, \frac{6}{113}, \frac{10}{339}, -\frac{16}{339}, \frac{10}{339})$ $+ \frac{20}{1017}\sqrt{51}e^1 \otimes e_9 + \frac{4}{1017}\sqrt{597}e^6 \otimes e_7 + \frac{8}{339}\sqrt{26}e^2 \otimes e_8$	{178, 35689}
93:43	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{83}e^{12} + \frac{9}{1289}\sqrt{385}e^{34}, \frac{9}{1289}\sqrt{687}e^{15},$ $\frac{9}{1289}\sqrt{15}e^{23} + \frac{36}{1289}\sqrt{46}e^{46}$	$(-\frac{198}{1289}, \frac{153}{1289}, -\frac{81}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{36}{1289}, -\frac{45}{1289}, -\frac{45}{1289}, \frac{72}{1289})$ $+ \frac{90}{1289}\sqrt{6}e^6 \otimes e_7 + \frac{9}{1289}\sqrt{785}e^5 \otimes e_9 + \frac{9}{1289}\sqrt{985}e^4 \otimes e_8$	{13456, 1689, 3578, 479}
93:43	$0, 0, 0, 0, 0, 0, \frac{9}{1289}\sqrt{83}e^{12} + \frac{9}{1289}\sqrt{385}e^{34}, \frac{9}{1289}\sqrt{687}e^{15},$ $\frac{9}{1289}\sqrt{15}e^{23} + \frac{36}{1289}\sqrt{46}e^{46}$	$(-\frac{198}{1289}, \frac{153}{1289}, -\frac{81}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{36}{1289}, -\frac{45}{1289}, -\frac{45}{1289}, \frac{72}{1289})$ $+ \frac{90}{1289}\sqrt{6}e^6 \otimes e_7 - \frac{9}{1289}\sqrt{785}e^5 \otimes e_9 + \frac{9}{1289}\sqrt{985}e^4 \otimes e_8$	{13456, 1689, 3578, 479}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{4253}\sqrt{157147}e^{12} + \frac{2}{4253}\sqrt{134435}e^{34}, \frac{8}{4253}\sqrt{11523}e^{15},$ $\frac{2}{4253}\sqrt{188877}e^{23} + \frac{4}{4253}\sqrt{30227}e^{46}$	$(\frac{453}{4253}, \frac{64}{4253}, \frac{55}{4253}, \frac{462}{4253}, -\frac{723}{4253}, -\frac{343}{4253}, \frac{517}{4253}, -\frac{270}{4253}, \frac{119}{4253})$ $+ \frac{2}{4253}\sqrt{353539}e^1 \otimes e_9 + \frac{6}{4253}\sqrt{32565}e^2 \otimes e_8$	{1235, 178, 2679, 35689}
93:43	$0, 0, 0, 0, 0, 0, \frac{21}{7405}\sqrt{2042}e^{12} + \frac{84}{7405}\sqrt{43}e^{34}, \frac{84}{7405}\sqrt{266}e^{15},$ $\frac{21}{7405}\sqrt{606}e^{23} + \frac{21}{7405}\sqrt{3882}e^{46}$	$(\frac{378}{7405}, -\frac{714}{7405}, \frac{651}{7405}, -\frac{987}{7405}, \frac{21}{1481}, \frac{924}{7405}, -\frac{336}{7405}, \frac{483}{7405}, -\frac{63}{7405})$ $+ \frac{21}{7405}\sqrt{3246}e^5 \otimes e_7 + \frac{21}{7405}\sqrt{4510}e^6 \otimes e_8 + \frac{21}{7405}\sqrt{5834}e^1 \otimes e_9$	{178, 2679}
93:43	$0, 0, 0, 0, 0, 0, \frac{32}{2911}\sqrt{61}e^{12} + \frac{64}{2911}\sqrt{67}e^{34}, \frac{160}{2911}\sqrt{38}e^{15},$ $\frac{32}{2911}\sqrt{933}e^{23} + \frac{32}{2911}\sqrt{319}e^{46}$	$(-\frac{624}{2911}, \frac{560}{2911}, -\frac{400}{2911}, \frac{336}{2911}, \frac{672}{2911}, -\frac{176}{2911}, -\frac{64}{2911}, \frac{48}{2911}, \frac{160}{2911})$ $+ \frac{32}{2911}\sqrt{1167}e^2 \otimes e_8 + \frac{32}{2911}\sqrt{122}e^4 \otimes e_6 + \frac{32}{2911}\sqrt{1357}e^5 \otimes e_9$	{13689, 249}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{1309}\sqrt{33907}e^{12} + \frac{5}{1309}\sqrt{18194}e^{34}, \frac{1}{1309}\sqrt{540858}e^{15},$ $\frac{1}{1309}\sqrt{451542}e^{23} + \frac{1}{1309}\sqrt{722798}e^{46}$	$(\frac{654}{1309}, -\frac{388}{1309}, \frac{215}{1309}, \frac{3}{77}, -\frac{114}{1309}, -\frac{32}{187}, \frac{38}{1309}, \frac{540}{1309}, -\frac{173}{1309})$ $+ \frac{4}{1309}\sqrt{113299}e^1 \otimes e_9$	{1235, 1238, 157, 178, 256789, 2679, 35689, 369}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{299}\sqrt{10506}e^{12} + \frac{2}{299}\sqrt{1581}e^{34}, \frac{3}{299}\sqrt{1870}e^{15},$ $\frac{2}{299}\sqrt{1581}e^{23} + \frac{2}{299}\sqrt{510}e^{46}$	$(-\frac{102}{299}, \frac{83}{299}, -\frac{30}{299}, \frac{11}{299}, \frac{83}{299}, \frac{42}{299}, -\frac{19}{299}, -\frac{19}{299}, \frac{53}{299})$ $+ \frac{3}{299}\sqrt{3026}e^2 \otimes e_8 + \frac{3}{299}\sqrt{3026}e^5 \otimes e_7$	{12345, 1259, 13789, 1478, 2367, 24679, 345689, 568}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{299}\sqrt{10506}e^{12} + \frac{2}{299}\sqrt{1581}e^{34}, \frac{3}{299}\sqrt{1870}e^{15},$ $\frac{2}{299}\sqrt{1581}e^{23} + \frac{2}{299}\sqrt{510}e^{46}$	$(-\frac{102}{299}, \frac{83}{299}, -\frac{30}{299}, \frac{11}{299}, \frac{83}{299}, \frac{42}{299}, -\frac{19}{299}, -\frac{19}{299}, \frac{53}{299})$ $+ \frac{3}{299}\sqrt{3026}e^2 \otimes e_8 - \frac{3}{299}\sqrt{3026}e^5 \otimes e_7$	{12345, 1259, 13789, 1478, 2367, 24679, 345689, 568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{6}e^{12} + \frac{1}{39}\sqrt{14}e^{34}, \frac{1}{39}\sqrt{34}e^{15},$ $\frac{1}{39}\sqrt{30}e^{23} + \frac{1}{39}\sqrt{2}e^{46}$	$(-\frac{2}{39}, 0, \frac{1}{39}, -\frac{1}{13}, \frac{2}{39}, \frac{4}{39}, -\frac{2}{39}, 0, \frac{1}{39})$ $+\frac{2}{39}\sqrt{10}e^3 \otimes e_8 + \frac{4}{39}\sqrt{2}e^5 \otimes e_9$	{123567, 1246789, 379, 4578}
93:43	$0, 0, 0, 0, 0, 0, \frac{18}{1249}\sqrt{2913}e^{12} + \frac{2}{1249}\sqrt{101955}e^{34}, \frac{3}{1249}\sqrt{21362}e^{15},$ $\frac{8}{1249}\sqrt{9710}e^{23} + \frac{1}{1249}\sqrt{879726}e^{46}$	$(-\frac{198}{1249}, \frac{23}{1249}, \frac{299}{1249}, -\frac{474}{1249}, \frac{288}{1249}, \frac{796}{1249}, -\frac{175}{1249}, \frac{90}{1249}, \frac{322}{1249})$ $+\frac{2}{1249}\sqrt{514630}e^6 \otimes e_7$	{13578, 137, 145789, 1479, 3456, 3468, 569, 689}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{124}\sqrt{4366}e^{12} + \frac{1}{124}\sqrt{5133}e^{34}, \frac{5}{62}\sqrt{59}e^{15},$ $\frac{1}{124}\sqrt{5133}e^{23} + \frac{1}{31}\sqrt{177}e^{46}$	$(\frac{13}{124}, \frac{17}{248}, \frac{13}{62}, -\frac{9}{248}, -\frac{23}{62}, \frac{39}{124}, \frac{43}{248}, -\frac{33}{124}, \frac{69}{248})$ $+\frac{1}{124}\sqrt{1298}e^1 \otimes e_5 + \frac{7}{62}\sqrt{59}e^3 \otimes e_8$	{1246789, 168, 2589, 4578}
93:43	$0, 0, 0, 0, 0, 0, \frac{28}{3309}\sqrt{623}e^{12} + \frac{14}{1103}\sqrt{665}e^{34}, \frac{56}{3309}\sqrt{217}e^{15},$ $\frac{14}{3309}\sqrt{4515}e^{23} + \frac{14}{3309}\sqrt{7231}e^{46}$	$(-\frac{181}{1103}, \frac{598}{3309}, \frac{33}{1103}, -\frac{44}{3309}, -\frac{187}{3309}, \frac{247}{1103}, \frac{55}{3309}, -\frac{730}{3309}, \frac{697}{3309})$ $+\frac{14}{3309}\sqrt{10255}e^6 \otimes e_7 + \frac{14}{3309}\sqrt{10745}e^4 \otimes e_8$	{1378, 14579, 346, 5689}
93:43	$0, 0, 0, 0, 0, 0, \frac{28}{3825}\sqrt{5330}e^{12} + \frac{14}{3825}\sqrt{2431}e^{34}, \frac{182}{3825}\sqrt{34}e^{15},$ $\frac{28}{3825}\sqrt{2730}e^{23} + \frac{14}{3825}\sqrt{13091}e^{46}$	$(\frac{191}{1275}, -\frac{54}{425}, \frac{967}{3825}, -\frac{176}{765}, -\frac{701}{3825}, \frac{1361}{1275}, \frac{29}{1275}, -\frac{128}{3825}, \frac{481}{3825})$ $+\frac{14}{3825}\sqrt{18941}e^1 \otimes e_5 + \frac{182}{3825}\sqrt{158}e^6 \otimes e_7$	{137, 1479, 3456, 569}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{1145}\sqrt{13354}e^{12} + \frac{1}{1145}\sqrt{66770}e^{34}, \frac{1}{1145}\sqrt{280434}e^{15},$ $\frac{1}{1145}\sqrt{200310}e^{23} + \frac{1}{1145}\sqrt{307142}e^{46}$	$(\frac{462}{1145}, -\frac{188}{1145}, \frac{43}{1145}, \frac{231}{1145}, -\frac{78}{1145}, -\frac{376}{1145}, \frac{274}{1145}, \frac{384}{1145}, -\frac{29}{229})$ $+\frac{2}{1145}\sqrt{217306}e^1 \otimes e_9 + \frac{2}{1145}\sqrt{83766}e^4 \otimes e_6$	{256789, 2679, 35689, 369}
93:43	$0, 0, 0, 0, 0, 0, \frac{2}{1533}\sqrt{11973}e^{12} + \frac{1}{1533}\sqrt{39910}e^{34}, \frac{1}{1533}\sqrt{297790}e^{15},$ $\frac{1}{1533}\sqrt{55874}e^{23} + \frac{1}{511}\sqrt{31314}e^{46}$	$(\frac{104}{511}, -\frac{4}{1533}, \frac{3}{511}, \frac{299}{1533}, -\frac{320}{1533}, -\frac{14}{73}, \frac{44}{219}, -\frac{8}{1533}, \frac{5}{1533})$ $+\frac{2}{1533}\sqrt{101003}e^4 \otimes e_8 + \frac{2}{1533}\sqrt{108985}e^1 \otimes e_9$	{123456, 14567, 2479, 349}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{61}e^{12} + \frac{1}{64}\sqrt{305}e^{34}, \frac{1}{32}\sqrt{671}e^{15},$ $\frac{1}{64}\sqrt{305}e^{23} + \frac{1}{64}\sqrt{2806}e^{46}$	$(-\frac{9}{64}, \frac{31}{128}, \frac{1}{4}, -\frac{19}{128}, -\frac{11}{64}, \frac{41}{64}, \frac{13}{128}, -\frac{5}{16}, \frac{63}{128})$ $+\frac{1}{64}\sqrt{6466}e^6 \otimes e_8$	{1234789, 1278, 138, 1489, 2369, 246, 3467, 679}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{3545}\sqrt{221106}e^{12} + \frac{2}{3545}\sqrt{357369}e^{34}, \frac{4}{3545}\sqrt{81415}e^{15},$ $\frac{18}{3545}\sqrt{5142}e^{23} + \frac{6}{3545}\sqrt{9427}e^{46}$	$(\frac{327}{3545}, \frac{654}{3545}, \frac{297}{3545}, \frac{684}{3545}, -\frac{1387}{3545}, \frac{267}{3545}, \frac{981}{3545}, -\frac{212}{709}, \frac{951}{3545})$ $+\frac{2}{3545}\sqrt{1176661}e^1 \otimes e_5 + \frac{2}{3545}\sqrt{1547742}e^2 \otimes e_8$	{134789, 178, 35689, 4568}
93:43	$0, 0, 0, 0, 0, 0, \frac{4}{339}\sqrt{55}e^{12} + \frac{4}{339}\sqrt{29}e^{34}, \frac{4}{339}\sqrt{61}e^{15},$ $\frac{8}{339}\sqrt{5}e^{23} + \frac{4}{339}\sqrt{110}e^{46}$	$(\frac{6}{113}, -\frac{8}{339}, \frac{6}{113}, -\frac{8}{339}, -\frac{34}{339}, \frac{6}{113}, \frac{10}{339}, -\frac{16}{339}, \frac{10}{339})$ $+\frac{4}{339}\sqrt{101}e^6 \otimes e_7 + \frac{4}{339}\sqrt{107}e^1 \otimes e_9 + \frac{8}{339}\sqrt{26}e^4 \otimes e_8$	{1378, 5689}
93:43	$0, 0, 0, 0, 0, 0, \frac{1}{209}\sqrt{4930}e^{12} + \frac{1}{209}\sqrt{11730}e^{34}, \frac{10}{209}\sqrt{102}e^{15},$ $\frac{20}{209}\sqrt{17}e^{23} + \frac{3}{209}\sqrt{170}e^{46}$	$(-\frac{7}{209}, \frac{13}{209}, \frac{42}{209}, -\frac{36}{209}, -\frac{36}{209}, \frac{91}{209}, \frac{6}{209}, -\frac{43}{209}, \frac{5}{19})$ $+\frac{1}{209}\sqrt{21590}e^3 \otimes e_8 + \frac{2}{209}\sqrt{2465}e^6 \otimes e_7$	{134569, 168, 379, 4578}
93:44	$0, 0, 0, 0, 0, 0, \frac{5}{161}\sqrt{730}e^{12}, -\frac{15}{161}\sqrt{5}e^{13} + \frac{15}{161}\sqrt{5}e^{24},$ $\frac{5}{161}\sqrt{335}e^{14} + \frac{5}{161}\sqrt{335}e^{23} + \frac{10}{161}\sqrt{190}e^{56}$	$(-\frac{20}{161}, -\frac{20}{161}, \frac{53}{161}, \frac{53}{161}, \frac{85}{161}, -\frac{52}{161}, -\frac{40}{161}, \frac{33}{161}, \frac{33}{161})$ $+\frac{5}{161}\sqrt{1370}e^5 \otimes e_7$	{123459, 12568, 137, 146789, 34568, 59, 123459, 12568, 137, 146789, 34568, 59}
93:44	$0, 0, 0, 0, 0, 0, \frac{5}{161}\sqrt{730}e^{12}, \frac{15}{161}\sqrt{5}e^{13} + \frac{15}{161}\sqrt{5}e^{24},$ $\frac{5}{161}\sqrt{335}e^{14} + \frac{5}{161}\sqrt{335}e^{23} + \frac{10}{161}\sqrt{190}e^{56}$	$(-\frac{20}{161}, -\frac{20}{161}, \frac{53}{161}, \frac{53}{161}, \frac{85}{161}, -\frac{52}{161}, -\frac{40}{161}, \frac{33}{161}, \frac{33}{161})$ $+\frac{5}{161}\sqrt{1370}e^5 \otimes e_7$	{123459, 12568, 137, 146789, 34568, 59, 123459, 12568, 137, 146789, 34568, 59}
93:44	$0, 0, 0, 0, 0, 0, \frac{17}{465}\sqrt{19}e^{12}, -\frac{17}{155}\sqrt{19}e^{13} + \frac{34}{93}e^{24},$ $\frac{17}{465}\sqrt{107}e^{14} + \frac{34}{465}\sqrt{41}e^{23} + \frac{17}{465}\sqrt{14}e^{56}$	$(-\frac{68}{465}, -\frac{68}{465}, \frac{51}{155}, \frac{51}{155}, \frac{187}{465}, -\frac{34}{155}, -\frac{136}{465}, \frac{17}{93}, \frac{17}{93})$ $+\frac{17}{465}\sqrt{542}e^3 \otimes e_7 + \frac{289}{465}e^5 \otimes e_6$	{2579, 2679, 3589, 3689, 2579, 2679, 3589, 3689}
93:44	$0, 0, 0, 0, 0, 0, \frac{17}{465}\sqrt{19}e^{12}, \frac{17}{155}\sqrt{19}e^{13} + \frac{34}{93}e^{24},$ $\frac{17}{465}\sqrt{107}e^{14} + \frac{34}{465}\sqrt{41}e^{23} + \frac{17}{465}\sqrt{14}e^{56}$	$(-\frac{68}{465}, -\frac{68}{465}, \frac{51}{155}, \frac{51}{155}, \frac{187}{465}, -\frac{34}{155}, -\frac{136}{465}, \frac{17}{93}, \frac{17}{93})$ $+\frac{17}{465}\sqrt{542}e^3 \otimes e_7 + \frac{289}{465}e^5 \otimes e_6$	{2579, 2679, 3589, 3689, 2579, 2679, 3589, 3689}
93:44	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{86}e^{12}, -\frac{6}{161}\sqrt{86}e^{13} + \frac{6}{161}\sqrt{86}e^{24},$ $\frac{2}{161}\sqrt{129}e^{14} + \frac{2}{161}\sqrt{129}e^{23} + \frac{2}{161}\sqrt{1290}e^{56}$	$(\frac{19}{161}, \frac{19}{161}, \frac{25}{161}, \frac{25}{161}, \frac{151}{161}, -\frac{107}{161}, \frac{38}{161}, \frac{44}{161}, \frac{44}{161})$ $+\frac{258}{161}e^5 \otimes e_6$	{12589, 12689, 13579, 13679, 34589, 34689, 12589, 12689, 13579, 13679, 34589, 34689}
93:44	$0, 0, 0, 0, 0, 0, \frac{6}{161}\sqrt{86}e^{12}, \frac{6}{161}\sqrt{86}e^{13} + \frac{6}{161}\sqrt{86}e^{24},$ $\frac{2}{161}\sqrt{129}e^{14} + \frac{2}{161}\sqrt{129}e^{23} + \frac{2}{161}\sqrt{1290}e^{56}$	$(\frac{19}{161}, \frac{19}{161}, \frac{25}{161}, \frac{25}{161}, \frac{151}{161}, -\frac{107}{161}, \frac{38}{161}, \frac{44}{161}, \frac{44}{161})$ $+\frac{258}{161}e^5 \otimes e_6$	{12589, 12689, 13579, 13679, 34589, 34689, 12589, 12689, 13579, 13679, 34589, 34689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:44	$0, 0, 0, 0, 0, 0, \frac{102}{641}\sqrt{19}e^{12}, -\frac{102}{641}\sqrt{19}e^{13} + \frac{340}{641}e^{24},$ $\frac{34}{641}\sqrt{107}e^{14} + \frac{68}{641}\sqrt{41}e^{23} + \frac{34}{641}\sqrt{14}e^{56}$	$(-\frac{136}{641}, -\frac{136}{641}, \frac{306}{641}, \frac{306}{641}, \frac{85}{641}, \frac{85}{641}, -\frac{272}{641}, \frac{170}{641}, \frac{170}{641})$ $+ \frac{34}{641}\sqrt{542}e^3 \otimes e_7$	{123, 12356, 15678, 178, 2579, 3589, 123, 12356, 15678, 178, 2579, 3589}
93:44	$0, 0, 0, 0, 0, 0, \frac{102}{641}\sqrt{19}e^{12}, \frac{102}{641}\sqrt{19}e^{13} + \frac{340}{641}e^{24},$ $\frac{34}{641}\sqrt{107}e^{14} + \frac{68}{641}\sqrt{41}e^{23} + \frac{34}{641}\sqrt{14}e^{56}$	$(-\frac{136}{641}, -\frac{136}{641}, \frac{306}{641}, \frac{306}{641}, \frac{85}{641}, \frac{85}{641}, -\frac{272}{641}, \frac{170}{641}, \frac{170}{641})$ $+ \frac{34}{641}\sqrt{542}e^3 \otimes e_7$	{123, 12356, 15678, 178, 2579, 3589, 123, 12356, 15678, 178, 2579, 3589}
93:44	$0, 0, 0, 0, 0, 0, \frac{34}{1081}\sqrt{33}e^{12}, -\frac{17}{1081}\sqrt{795}e^{13} + \frac{17}{1081}\sqrt{485}e^{24},$ $\frac{85}{1081}\sqrt{23}e^{14} + \frac{17}{1081}\sqrt{265}e^{23} + \frac{17}{1081}\sqrt{794}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, \frac{374}{1081}, -\frac{289}{1081}, -\frac{136}{1081}, \frac{85}{1081}, \frac{85}{1081})$ $+ \frac{17}{1081}\sqrt{1326}e^5 \otimes e_8 + \frac{34}{1081}\sqrt{155}e^3 \otimes e_7$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}
93:44	$0, 0, 0, 0, 0, 0, \frac{34}{1081}\sqrt{33}e^{12}, \frac{17}{1081}\sqrt{795}e^{13} + \frac{17}{1081}\sqrt{485}e^{24},$ $\frac{85}{1081}\sqrt{23}e^{14} + \frac{17}{1081}\sqrt{265}e^{23} + \frac{17}{1081}\sqrt{794}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, \frac{374}{1081}, -\frac{289}{1081}, -\frac{136}{1081}, \frac{85}{1081}, \frac{85}{1081})$ $+ \frac{17}{1081}\sqrt{1326}e^5 \otimes e_8 + \frac{34}{1081}\sqrt{155}e^3 \otimes e_7$	{123459, 146789, 24567, 348, 123459, 146789, 24567, 348}
93:44	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{26}e^{12}, -\frac{13}{32}\sqrt{2}e^{13} + \frac{13}{32}\sqrt{2}e^{24},$ $\frac{1}{32}\sqrt{247}e^{14} + \frac{1}{32}\sqrt{247}e^{23} + \frac{1}{32}\sqrt{442}e^{56}$	$(\frac{3}{64}, \frac{3}{64}, \frac{1}{64}, \frac{1}{64}, \frac{15}{32}, -\frac{13}{32}, \frac{3}{32}, \frac{1}{16}, \frac{1}{16})$ $+ \frac{1}{16}\sqrt{182}e^5 \otimes e_8$	{1234579, 1278, 1356, 14689, 3478, 579, 1234579, 1278, 1356, 14689, 3478, 579}
93:44	$0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{26}e^{12}, \frac{13}{32}\sqrt{2}e^{13} + \frac{13}{32}\sqrt{2}e^{24},$ $\frac{1}{32}\sqrt{247}e^{14} + \frac{1}{32}\sqrt{247}e^{23} + \frac{1}{32}\sqrt{442}e^{56}$	$(\frac{3}{64}, \frac{3}{64}, \frac{1}{64}, \frac{1}{64}, \frac{15}{32}, -\frac{13}{32}, \frac{3}{32}, \frac{1}{16}, \frac{1}{16})$ $+ \frac{1}{16}\sqrt{182}e^5 \otimes e_8$	{1234579, 1278, 1356, 14689, 3478, 579, 1234579, 1278, 1356, 14689, 3478, 579}
93:45	$0, 0, 0, 0, 0, 0, \frac{66}{443}\sqrt{5}e^{12}, \frac{66}{443}\sqrt{10}e^{13} + \frac{66}{443}\sqrt{5}e^{24},$ $\frac{22}{443}\sqrt{15}e^{15} + \frac{22}{443}\sqrt{83}e^{23} + \frac{22}{443}\sqrt{105}e^{46}$	$(-\frac{99}{443}, \frac{44}{443}, \frac{44}{443}, -\frac{99}{443}, \frac{187}{443}, \frac{187}{443}, -\frac{55}{443}, -\frac{55}{443}, \frac{88}{443})$ $+ \frac{22}{443}\sqrt{151}e^5 \otimes e_7 - \frac{22}{443}\sqrt{241}e^6 \otimes e_8$	{1258, 14789, 2467, 569}
93:45	$0, 0, 0, 0, 0, 0, \frac{66}{443}\sqrt{5}e^{12}, \frac{66}{443}\sqrt{10}e^{13} + \frac{66}{443}\sqrt{5}e^{24},$ $\frac{22}{443}\sqrt{15}e^{15} + \frac{22}{443}\sqrt{83}e^{23} + \frac{22}{443}\sqrt{105}e^{46}$	$(-\frac{99}{443}, \frac{44}{443}, \frac{44}{443}, -\frac{99}{443}, \frac{187}{443}, \frac{187}{443}, -\frac{55}{443}, -\frac{55}{443}, \frac{88}{443})$ $+ \frac{22}{443}\sqrt{151}e^5 \otimes e_7 + \frac{22}{443}\sqrt{241}e^6 \otimes e_8$	{1258, 14789, 2467, 569}
93:45	$0, 0, 0, 0, 0, 0, \frac{2}{45}\sqrt{37}e^{12}, \frac{2}{45}\sqrt{37}e^{13} + \frac{8}{45}\sqrt{2}e^{24},$ $\frac{8}{45}\sqrt{2}e^{15} + \frac{2}{45}\sqrt{6}e^{23} + \frac{2}{45}\sqrt{21}e^{46}$	$(\frac{2}{45}, -\frac{1}{15}, \frac{1}{15}, \frac{8}{45}, -\frac{2}{45}, -\frac{8}{45}, -\frac{1}{45}, \frac{1}{9}, 0)$ $+ \frac{2}{45}\sqrt{41}e^1 \otimes e_5 + \frac{4}{45}\sqrt{11}e^3 \otimes e_7$	{123, 178}
93:45	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{202}e^{12}, \frac{3}{47}\sqrt{2}e^{13} + \frac{2}{47}\sqrt{103}e^{24},$ $\frac{1}{47}\sqrt{322}e^{15} + \frac{2}{47}\sqrt{26}e^{23} + \frac{14}{47}e^{46}$	$(-\frac{6}{47}, -\frac{4}{47}, \frac{8}{47}, \frac{6}{47}, \frac{10}{47}, -\frac{2}{47}, -\frac{10}{47}, \frac{2}{47}, \frac{4}{47})$ $+ \frac{2}{47}\sqrt{110}e^5 \otimes e_8 + \frac{3}{47}\sqrt{30}e^4 \otimes e_6$	{1356, 3478}
93:45	$0, 0, 0, 0, 0, 0, \frac{32}{1403}\sqrt{10}e^{12}, \frac{96}{1403}\sqrt{11}e^{13} + \frac{160}{1403}\sqrt{21}e^{24},$ $\frac{160}{1403}\sqrt{14}e^{15} + \frac{64}{1403}\sqrt{71}e^{23} + \frac{32}{1403}\sqrt{23}e^{46}$	$(-\frac{304}{1403}, -\frac{96}{1403}, \frac{320}{1403}, \frac{112}{1403}, \frac{528}{1403}, \frac{112}{1403}, -\frac{400}{1403}, \frac{16}{1403}, \frac{224}{1403})$ $+ \frac{160}{1403}\sqrt{21}e^4 \otimes e_7 + \frac{32}{1403}\sqrt{743}e^5 \otimes e_8$	{1489, 5679}
93:45	$0, 0, 0, 0, 0, 0, \frac{12}{2069}\sqrt{514}e^{12}, \frac{6}{2069}\sqrt{73502}e^{13} + \frac{2}{2069}\sqrt{214338}e^{24},$ $\frac{2}{2069}\sqrt{239010}e^{15} + \frac{2}{2069}\sqrt{346179}e^{23} + \frac{10}{2069}\sqrt{26214}e^{46}$	$(-\frac{219}{2069}, \frac{500}{2069}, -\frac{104}{2069}, -\frac{823}{2069}, \frac{615}{2069}, \frac{1219}{2069}, \frac{281}{2069}, -\frac{323}{2069}, \frac{396}{2069})$ $+ \frac{84}{2069}\sqrt{771}e^6 \otimes e_8$	{1278, 14589, 2456, 679}
93:45	$0, 0, 0, 0, 0, 0, \frac{6}{2069}\sqrt{73502}e^{12}, \frac{12}{2069}\sqrt{514}e^{13} + \frac{2}{2069}\sqrt{214338}e^{24},$ $\frac{2}{2069}\sqrt{239010}e^{15} + \frac{2}{2069}\sqrt{346179}e^{23} + \frac{10}{2069}\sqrt{26214}e^{46}$	$(-\frac{219}{2069}, -\frac{382}{2069}, \frac{778}{2069}, \frac{941}{2069}, \frac{615}{2069}, -\frac{545}{2069}, -\frac{601}{2069}, \frac{559}{2069}, \frac{396}{2069})$ $+ \frac{84}{2069}\sqrt{771}e^4 \otimes e_7$	{1246, 15679, 2578, 489}
93:45	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33}e^{12}, \frac{2}{25}\sqrt{15}e^{13} + \frac{2}{25}\sqrt{6}e^{24},$ $\frac{6}{25}\sqrt{2}e^{15} + \frac{2}{25}\sqrt{15}e^{23} + \frac{2}{25}\sqrt{3}e^{46}$	$(\frac{3}{25}, -\frac{2}{25}, \frac{2}{25}, \frac{7}{25}, -\frac{3}{25}, -\frac{7}{25}, \frac{1}{25}, \frac{1}{5}, 0)$ $+ \frac{12}{25}e^4 \otimes e_7 + \frac{2}{25}\sqrt{33}e^1 \otimes e_5$	{12468, 257}
93:45	$0, 0, 0, 0, 0, 0, \frac{6}{25}\sqrt{5}e^{12}, \frac{6}{25}\sqrt{5}e^{13} + \frac{12}{25}\sqrt{5}e^{24},$ $\frac{2}{5}\sqrt{3}e^{15} + \frac{2}{25}\sqrt{15}e^{23} + \frac{4}{25}\sqrt{15}e^{46}$	$(\frac{1}{5}, -\frac{4}{25}, \frac{8}{25}, \frac{17}{25}, -\frac{1}{25}, -\frac{13}{25}, \frac{1}{25}, \frac{13}{25}, \frac{4}{25})$ $+ \frac{6}{25}\sqrt{35}e^4 \otimes e_6$	{12457, 13458, 268, 367}
93:45	$0, 0, 0, 0, 0, 0, \frac{1596}{2045}e^{12}, \frac{342}{2045}\sqrt{10}e^{13} + \frac{38}{2045}\sqrt{318}e^{24},$ $\frac{114}{2045}\sqrt{226}e^{15} + \frac{38}{2045}\sqrt{699}e^{23} + \frac{38}{2045}\sqrt{222}e^{46}$	$(-\frac{667}{2045}, -\frac{132}{2045}, \frac{832}{2045}, \frac{297}{2045}, \frac{1367}{2045}, \frac{403}{2045}, -\frac{799}{2045}, \frac{33}{409}, \frac{140}{409})$ $+ \frac{228}{2045}\sqrt{143}e^5 \otimes e_7$	{1245, 179, 2678, 45689}
93:45	$0, 0, 0, 0, 0, 0, \frac{6}{83}\sqrt{5}e^{12}, \frac{2}{83}\sqrt{23}e^{13} + \frac{2}{83}\sqrt{30}e^{24},$ $\frac{2}{83}\sqrt{30}e^{15} + \frac{2}{83}\sqrt{15}e^{23} + \frac{2}{83}\sqrt{41}e^{46}$	$(\frac{1}{83}, \frac{4}{83}, -\frac{4}{83}, -\frac{7}{83}, -\frac{1}{83}, \frac{7}{83}, \frac{5}{83}, -\frac{3}{83}, 0)$ $+ \frac{2}{83}\sqrt{35}e^1 \otimes e_5 + \frac{4}{83}\sqrt{11}e^6 \otimes e_7$	{12468, 257}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:45	$0, 0, 0, 0, 0, 0, \frac{6}{7}e^{12}, \frac{6}{7}e^{13} + \frac{2}{7}\sqrt{6}e^{24},$ $\frac{2}{7}\sqrt{6}e^{15} + \frac{2}{7}\sqrt{3}e^{23} + \frac{2}{7}\sqrt{6}e^{46}$	$(\frac{3}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, -\frac{3}{7}, -\frac{1}{7}, \frac{4}{7}, \frac{2}{7}, 0)$ $+ \frac{6}{7}\sqrt{2}e^1 \otimes e_5$	{12468, 13467, 257, 358}
93:45	$0, 0, 0, 0, 0, 0, \frac{14}{167}\sqrt{15}e^{12}, \frac{70}{167}e^{13} + \frac{28}{167}\sqrt{11}e^{24},$ $\frac{14}{167}\sqrt{47}e^{15} + \frac{14}{167}\sqrt{15}e^{23} + \frac{28}{167}\sqrt{5}e^{46}$	$(-\frac{21}{167}, -\frac{28}{167}, \frac{56}{167}, \frac{63}{167}, \frac{49}{167}, -\frac{35}{167}, -\frac{49}{167}, \frac{35}{167}, \frac{28}{167})$ $+ \frac{14}{167}\sqrt{71}e^4 \otimes e_6 + \frac{56}{167}\sqrt{5}e^5 \otimes e_7$	{1245, 2678}
93:45	$0, 0, 0, 0, 0, 0, \frac{1}{168}\sqrt{15113}e^{12}, \frac{1}{168}\sqrt{15113}e^{13} + \frac{1}{168}\sqrt{14478}e^{24},$ $\frac{1}{168}\sqrt{14478}e^{15} + \frac{1}{84}\sqrt{2794}e^{23} + \frac{1}{168}\sqrt{7874}e^{46}$	$(-\frac{13}{56}, -\frac{47}{336}, \frac{43}{112}, \frac{7}{24}, \frac{10}{21}, -\frac{1}{21}, -\frac{125}{336}, \frac{17}{112}, \frac{41}{168})$ $+ \frac{1}{168}\sqrt{36830}e^3 \otimes e_7$	{123, 178, 2679, 3689}
93:45	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{703}e^{12}, \frac{6}{131}\sqrt{74}e^{13} + \frac{2}{131}\sqrt{1702}e^{24},$ $\frac{2}{131}\sqrt{1702}e^{15} + \frac{2}{131}\sqrt{851}e^{23} + \frac{2}{131}\sqrt{3034}e^{46}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{20}{131}, -\frac{21}{131}, \frac{61}{131}, \frac{49}{131}, -\frac{25}{131}, -\frac{13}{131}, \frac{28}{131})$ $+ \frac{4}{131}\sqrt{1073}e^6 \otimes e_7$	{123569, 12468, 234789, 257}
93:45	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{15}e^{12}, \frac{2}{25}\sqrt{33}e^{13} + \frac{2}{25}\sqrt{6}e^{24},$ $\frac{6}{25}\sqrt{2}e^{15} + \frac{2}{25}\sqrt{15}e^{23} + \frac{6}{25}\sqrt{3}e^{46}$	$(\frac{3}{25}, \frac{4}{25}, -\frac{4}{25}, -\frac{1}{5}, -\frac{3}{25}, \frac{1}{5}, \frac{7}{25}, -\frac{1}{25}, 0)$ $+ \frac{12}{25}e^6 \otimes e_8 + \frac{2}{25}\sqrt{33}e^1 \otimes e_5$	{13467, 358}
93:45	$0, 0, 0, 0, 0, 0, \frac{54}{487}\sqrt{7}e^{12}, \frac{9}{487}\sqrt{618}e^{13} + \frac{27}{487}\sqrt{78}e^{24},$ $\frac{27}{487}\sqrt{78}e^{15} + \frac{18}{487}\sqrt{21}e^{23} + \frac{36}{487}\sqrt{21}e^{46}$	$(-\frac{126}{487}, \frac{9}{487}, \frac{108}{487}, -\frac{9}{487}, \frac{225}{487}, \frac{108}{487}, -\frac{135}{487}, -\frac{18}{487}, \frac{99}{487})$ $+ \frac{18}{487}\sqrt{435}e^5 \otimes e_8 + \frac{9}{487}\sqrt{870}e^3 \otimes e_7$	{1356, 579}
93:45	$0, 0, 0, 0, 0, 0, \frac{4}{131}\sqrt{370}e^{12}, \frac{6}{131}\sqrt{74}e^{13} + \frac{2}{131}\sqrt{2590}e^{24},$ $\frac{2}{131}\sqrt{2590}e^{15} + \frac{2}{131}\sqrt{851}e^{23} + \frac{2}{131}\sqrt{1258}e^{46}$	$(-\frac{33}{131}, \frac{8}{131}, \frac{20}{131}, -\frac{21}{131}, \frac{61}{131}, \frac{49}{131}, -\frac{25}{131}, -\frac{13}{131}, \frac{28}{131})$ $+ \frac{4}{131}\sqrt{1073}e^5 \otimes e_8$	{1356, 14689, 3478, 579}
93:45	$0, 0, 0, 0, 0, 0, \frac{37}{4245}\sqrt{1442}e^{12}, \frac{74}{4245}\sqrt{842}e^{13} + \frac{37}{4245}\sqrt{966}e^{24},$ $\frac{37}{283}\sqrt{10}e^{15} + \frac{148}{4245}\sqrt{10}e^{23} + \frac{74}{4245}\sqrt{641}e^{46}$	$(-\frac{296}{1415}, \frac{74}{4245}, \frac{37}{283}, -\frac{407}{4245}, \frac{1517}{4245}, \frac{1036}{4245}, -\frac{814}{4245}, -\frac{111}{1415}, \frac{629}{4245})$ $+ \frac{37}{4245}\sqrt{3854}e^3 \otimes e_7 + \frac{74}{1415}\sqrt{107}e^6 \otimes e_8$	{178, 2679}
93:45	$0, 0, 0, 0, 0, 0, \frac{11}{189}\sqrt{77}e^{12}, \frac{11}{189}\sqrt{77}e^{13} + \frac{44}{189}\sqrt{2}e^{24},$ $\frac{11}{189}\sqrt{67}e^{15} + \frac{88}{189}e^{23} + \frac{11}{189}\sqrt{26}e^{46}$	$(-\frac{22}{189}, \frac{11}{63}, \frac{22}{63}, \frac{11}{27}, \frac{55}{189}, -\frac{44}{189}, -\frac{55}{189}, \frac{44}{189}, \frac{11}{63})$ $+ \frac{11}{189}\sqrt{105}e^4 \otimes e_6 + \frac{11}{189}\sqrt{230}e^3 \otimes e_7$	{2679, 3689}
93:46	$0, 0, 0, 0, 0, 0, \frac{3}{383}\sqrt{4170}e^{12}, \frac{60}{383}\sqrt{6}e^{13} + \frac{3}{383}\sqrt{2910}e^{24},$ $\frac{3}{383}\sqrt{2910}e^{15} + \frac{60}{383}\sqrt{6}e^{26} + \frac{9}{383}\sqrt{70}e^{34}$	$(\frac{84}{383}, -\frac{93}{383}, -\frac{72}{383}, \frac{105}{383}, -\frac{51}{383}, \frac{126}{383}, -\frac{9}{383}, \frac{12}{383}, \frac{33}{383})$ $+ \frac{9}{383}\sqrt{590}e^1 \otimes e_5 + \frac{9}{383}\sqrt{590}e^6 \otimes e_7$	{1347, 178}
93:46	$0, 0, 0, 0, 0, 0, \frac{9}{487}\sqrt{870}e^{12}, \frac{18}{487}\sqrt{330}e^{13} + \frac{9}{487}\sqrt{618}e^{24},$ $\frac{18}{487}\sqrt{21}e^{15} + \frac{18}{487}\sqrt{330}e^{26} + \frac{27}{487}\sqrt{106}e^{34}$	$(-\frac{9}{487}, -\frac{126}{487}, -\frac{9}{487}, \frac{108}{487}, \frac{108}{487}, \frac{225}{487}, -\frac{135}{487}, -\frac{18}{487}, \frac{99}{487})$ $+ \frac{27}{487}\sqrt{262}e^6 \otimes e_8 + \frac{54}{487}\sqrt{7}e^5 \otimes e_7$	{2456, 679}
93:46	$0, 0, 0, 0, 0, 0, \frac{7}{397}\sqrt{186}e^{12}, \frac{7}{397}\sqrt{906}e^{13} + \frac{7}{397}\sqrt{174}e^{24},$ $\frac{7}{397}\sqrt{534}e^{15} + \frac{7}{397}\sqrt{546}e^{26} + \frac{7}{397}\sqrt{186}e^{34}$	$(-\frac{56}{397}, -\frac{56}{397}, \frac{35}{397}, \frac{35}{397}, \frac{126}{397}, \frac{126}{397}, -\frac{112}{397}, -\frac{21}{397}, \frac{70}{397})$ $+ \frac{42}{397}\sqrt{30}e^3 \otimes e_7 + \frac{42}{397}\sqrt{30}e^6 \otimes e_8$	{178, 2567}
93:46	$0, 0, 0, 0, 0, 0, \frac{12}{209}\sqrt{210}e^{12}, \frac{12}{209}\sqrt{210}e^{13} + \frac{2}{209}\sqrt{4830}e^{24},$ $\frac{2}{209}\sqrt{4830}e^{15} + \frac{2}{209}\sqrt{1365}e^{26} + \frac{2}{209}\sqrt{1365}e^{34}$	$(\frac{111}{209}, -\frac{7}{209}, -\frac{53}{209}, \frac{65}{209}, -\frac{9}{19}, \frac{1}{11}, \frac{104}{209}, \frac{58}{209}, \frac{12}{209})$ $+ \frac{6}{209}\sqrt{2065}e^1 \otimes e_5$	{1347, 178, 2345678, 2567}
93:46	$0, 0, 0, 0, 0, 0, \frac{33}{1247}\sqrt{102}e^{12}, \frac{198}{1247}\sqrt{11}e^{13} + \frac{11}{1247}\sqrt{462}e^{24},$ $\frac{22}{1247}\sqrt{258}e^{15} + \frac{22}{1247}\sqrt{690}e^{26} + \frac{11}{1247}\sqrt{1722}e^{34}$	$(\frac{231}{1247}, -\frac{286}{1247}, -\frac{209}{1247}, \frac{308}{1247}, -\frac{132}{1247}, \frac{385}{1247}, -\frac{55}{1247}, \frac{22}{1247}, \frac{99}{1247})$ $+ \frac{33}{1247}\sqrt{498}e^6 \otimes e_8 + \frac{66}{1247}\sqrt{67}e^1 \otimes e_5$	{148, 2456}
93:46	$0, 0, 0, 0, 0, 0, \frac{198}{1247}\sqrt{11}e^{12}, \frac{33}{1247}\sqrt{102}e^{13} + \frac{11}{1247}\sqrt{462}e^{24},$ $\frac{22}{1247}\sqrt{258}e^{15} + \frac{11}{1247}\sqrt{1722}e^{26} + \frac{22}{1247}\sqrt{690}e^{34}$	$(\frac{231}{1247}, -\frac{286}{1247}, \frac{209}{1247}, \frac{308}{1247}, -\frac{132}{1247}, \frac{385}{1247}, -\frac{55}{1247}, \frac{22}{1247}, \frac{99}{1247})$ $+ \frac{33}{1247}\sqrt{498}e^4 \otimes e_7 + \frac{66}{1247}\sqrt{67}e^1 \otimes e_5$	{167, 2578}
93:46	$0, 0, 0, 0, 0, 0, \frac{1}{101}\sqrt{3774}e^{12}, \frac{1}{101}\sqrt{2346}e^{13} + \frac{1}{101}\sqrt{5406}e^{24},$ $\frac{1}{101}\sqrt{5406}e^{15} + \frac{1}{101}\sqrt{714}e^{26} + \frac{1}{101}\sqrt{3774}e^{34}$	$(-\frac{28}{101}, \frac{2}{101}, \frac{25}{101}, -\frac{5}{101}, \frac{48}{101}, \frac{18}{101}, -\frac{26}{101}, -\frac{3}{101}, \frac{20}{101})$ $+ \frac{6}{101}\sqrt{255}e^5 \otimes e_8$	{126789, 1356, 238, 579}
93:46	$0, 0, 0, 0, 0, 0, \frac{8}{195}\sqrt{210}e^{12}, \frac{8}{195}\sqrt{33}e^{13} + \frac{8}{195}\sqrt{33}e^{24},$ $\frac{4}{195}\sqrt{222}e^{15} + \frac{4}{195}\sqrt{222}e^{26} + \frac{8}{195}\sqrt{33}e^{34}$	$(\frac{44}{195}, \frac{44}{195}, -\frac{4}{195}, -\frac{4}{195}, -\frac{4}{15}, -\frac{4}{15}, -\frac{4}{195}, \frac{88}{39}, -\frac{8}{195})$ $+ \frac{4}{65}\sqrt{118}e^1 \otimes e_5 - \frac{4}{65}\sqrt{118}e^2 \otimes e_6$	{1234, 128, 34568, 56}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:46	$0, 0, 0, 0, 0, 0, \frac{8}{195}\sqrt{210}e^{12}, \frac{8}{195}\sqrt{33}e^{13} + \frac{8}{195}\sqrt{33}e^{24},$ $\frac{4}{195}\sqrt{222}e^{15} + \frac{4}{195}\sqrt{222}e^{26} + \frac{8}{195}\sqrt{33}e^{34}$	$(\frac{44}{195}, \frac{44}{195}, -\frac{4}{195}, -\frac{4}{195}, -\frac{4}{15}, -\frac{4}{15}, \frac{88}{195}, \frac{8}{39}, -\frac{8}{195})$ $+ \frac{4}{65}\sqrt{118}e^1 \otimes e_5 + \frac{4}{65}\sqrt{118}e^2 \otimes e_6$	{1234, 128, 34568, 56}
93:46	$0, 0, 0, 0, 0, 0, \frac{12}{209}\sqrt{210}e^{12}, \frac{2}{209}\sqrt{4830}e^{13} + \frac{2}{209}\sqrt{1365}e^{24},$ $\frac{12}{209}\sqrt{210}e^{15} + \frac{2}{209}\sqrt{4830}e^{26} + \frac{2}{209}\sqrt{1365}e^{34}$	$(-\frac{6}{19}, -\frac{7}{209}, \frac{65}{209}, \frac{6}{209}, \frac{137}{209}, \frac{78}{209}, -\frac{73}{209}, -\frac{1}{209}, \frac{71}{209})$ $+ \frac{6}{209}\sqrt{2065}e^5 \otimes e_7$	{2347, 278, 359, 4589}
93:46	$0, 0, 0, 0, 0, 0, \frac{6}{1951}\sqrt{1398}e^{12}, \frac{3}{1951}\sqrt{3390}e^{13} + \frac{3}{1951}\sqrt{4062}e^{24},$ $\frac{3}{1951}\sqrt{4062}e^{15} + \frac{12}{1951}\sqrt{21}e^{26} + \frac{18}{1951}\sqrt{113}e^{34}$	$(\frac{30}{1951}, -\frac{111}{1951}, -\frac{54}{1951}, \frac{87}{1951}, \frac{3}{1951}, \frac{144}{1951}, -\frac{81}{1951}, -\frac{24}{1951}, \frac{33}{1951})$ $+ \frac{18}{1951}\sqrt{127}e^1 \otimes e_5 + \frac{9}{1951}\sqrt{73}e^3 \otimes e_7$	{1678, 257}
93:46	$0, 0, 0, 0, 0, 0, \frac{1}{101}\sqrt{5406}e^{12}, \frac{1}{101}\sqrt{2346}e^{13} + \frac{1}{101}\sqrt{3774}e^{24},$ $\frac{1}{101}\sqrt{3774}e^{15} + \frac{1}{101}\sqrt{714}e^{26} + \frac{1}{101}\sqrt{5406}e^{34}$	$(-\frac{28}{101}, \frac{2}{101}, \frac{25}{101}, -\frac{5}{101}, \frac{48}{101}, \frac{18}{101}, -\frac{26}{101}, -\frac{3}{101}, \frac{20}{101})$ $+ \frac{6}{101}\sqrt{255}e^3 \otimes e_7$	{123569, 1678, 257, 389}
93:47	$0, 0, 0, 0, 0, 0, \frac{8}{185}\sqrt{102}e^{14} - \frac{8}{185}\sqrt{210}e^{23}, \frac{8}{185}\sqrt{210}e^{13} + \frac{8}{185}\sqrt{102}e^{24},$ $\frac{16}{185}\sqrt{26}e^{12} + \frac{16}{185}\sqrt{53}e^{56}$	$(-\frac{24}{185}, -\frac{24}{185}, \frac{16}{37}, \frac{16}{37}, -\frac{24}{185}, -\frac{24}{185}, \frac{56}{185}, \frac{56}{185}, -\frac{48}{185})$ $+ \frac{32}{185}\sqrt{39}e^3 \otimes e_9$	{123, 12356, 1589, 35678, 378, 123, 12356, 1589, 35678, 378}
93:47	$0, 0, 0, 0, 0, 0, \frac{8}{185}\sqrt{102}e^{14} + \frac{8}{185}\sqrt{210}e^{23}, \frac{8}{185}\sqrt{210}e^{13} + \frac{8}{185}\sqrt{102}e^{24},$ $\frac{16}{185}\sqrt{26}e^{12} + \frac{16}{185}\sqrt{53}e^{56}$	$(-\frac{24}{185}, -\frac{24}{185}, \frac{16}{37}, \frac{16}{37}, -\frac{24}{185}, -\frac{24}{185}, \frac{56}{185}, \frac{56}{185}, -\frac{48}{185})$ $+ \frac{32}{185}\sqrt{39}e^3 \otimes e_9$	{123, 12356, 1589, 35678, 378, 123, 12356, 1589, 35678, 378}
93:47	$0, 0, 0, 0, 0, 0, \frac{8}{249}\sqrt{102}e^{14} - \frac{8}{249}\sqrt{210}e^{23}, \frac{8}{249}\sqrt{210}e^{13} + \frac{8}{249}\sqrt{102}e^{24},$ $\frac{16}{249}\sqrt{26}e^{12} + \frac{16}{249}\sqrt{53}e^{56}$	$(-\frac{8}{83}, -\frac{8}{83}, \frac{80}{249}, \frac{80}{249}, \frac{40}{249}, -\frac{88}{249}, \frac{56}{249}, \frac{56}{249}, -\frac{16}{83})$ $+ \frac{128}{249}e^5 \otimes e_6 + \frac{32}{249}\sqrt{39}e^3 \otimes e_9$	{1589, 1689, 1589, 1689}
93:47	$0, 0, 0, 0, 0, 0, \frac{8}{249}\sqrt{102}e^{14} + \frac{8}{249}\sqrt{210}e^{23}, \frac{8}{249}\sqrt{210}e^{13} + \frac{8}{249}\sqrt{102}e^{24},$ $\frac{16}{249}\sqrt{26}e^{12} + \frac{16}{249}\sqrt{53}e^{56}$	$(-\frac{8}{83}, -\frac{8}{83}, \frac{80}{249}, \frac{80}{249}, \frac{40}{249}, -\frac{88}{249}, \frac{56}{249}, \frac{56}{249}, -\frac{16}{83})$ $+ \frac{128}{249}e^5 \otimes e_6 + \frac{32}{249}\sqrt{39}e^3 \otimes e_9$	{1589, 1689, 1589, 1689}
93:47	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{14} - \frac{2}{7}\sqrt{5}e^{23}, \frac{2}{7}e^{13} + \frac{2}{7}e^{24},$ $\frac{4}{7}e^{12} + \frac{2}{7}\sqrt{6}e^{56}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{4}{7}, -\frac{2}{7}, 0, 0, \frac{2}{7})$ $+ \frac{4}{7}\sqrt{3}e^5 \otimes e_7$	{1234589, 12679, 1378, 1456, 34679, 589, 1234589, 12679, 1378, 1456, 34679, 589}
93:47	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{5}e^{14} + \frac{2}{7}\sqrt{5}e^{23}, \frac{2}{7}e^{13} + \frac{2}{7}e^{24},$ $\frac{4}{7}e^{12} + \frac{2}{7}\sqrt{6}e^{56}$	$(\frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{4}{7}, -\frac{2}{7}, 0, 0, \frac{2}{7})$ $+ \frac{4}{7}\sqrt{3}e^5 \otimes e_7$	{1234589, 12679, 1378, 1456, 34679, 589, 1234589, 12679, 1378, 1456, 34679, 589}
93:48	$0, 0, 0, 0, 0, 0, \frac{15}{371}\sqrt{55}e^{13} + \frac{15}{371}\sqrt{55}e^{24}, -\frac{15}{371}\sqrt{11}e^{12} + \frac{45}{371}\sqrt{11}e^{34},$ $\frac{30}{371}\sqrt{22}e^{15} + \frac{30}{371}\sqrt{22}e^{26}$	$(-\frac{30}{371}, -\frac{30}{371}, -\frac{30}{371}, -\frac{30}{371}, \frac{165}{371}, \frac{165}{371}, -\frac{60}{371}, -\frac{60}{371}, \frac{135}{371})$ $+ \frac{270}{371}e^5 \otimes e_7 + \frac{270}{371}e^6 \otimes e_8$	{123456, 1358, 24589, 569, 123456, 1358, 24589, 569}
93:48	$0, 0, 0, 0, 0, 0, \frac{15}{371}\sqrt{55}e^{13} + \frac{15}{371}\sqrt{55}e^{24}, \frac{15}{371}\sqrt{11}e^{12} + \frac{45}{371}\sqrt{11}e^{34},$ $\frac{30}{371}\sqrt{22}e^{15} + \frac{30}{371}\sqrt{22}e^{26}$	$(-\frac{30}{371}, -\frac{30}{371}, -\frac{30}{371}, -\frac{30}{371}, \frac{165}{371}, \frac{165}{371}, -\frac{60}{371}, -\frac{60}{371}, \frac{135}{371})$ $+ \frac{270}{371}e^5 \otimes e_7 + \frac{270}{371}e^6 \otimes e_8$	{123456, 1358, 24589, 569, 123456, 1358, 24589, 569}
93:48	$0, 0, 0, 0, 0, 0, \frac{15}{131}\sqrt{11}e^{13} + \frac{3}{131}\sqrt{253}e^{24}, -\frac{3}{131}\sqrt{319}e^{12} + \frac{9}{131}\sqrt{33}e^{34},$ $\frac{12}{131}\sqrt{22}e^{15} + \frac{6}{131}\sqrt{22}e^{26}$	$(0, \frac{12}{131}, \frac{12}{131}, 0, -\frac{9}{131}, -\frac{21}{131}, \frac{12}{131}, \frac{12}{131}, -\frac{9}{131})$ $+ \frac{18}{131}\sqrt{14}e^4 \otimes e_9 + \frac{36}{131}\sqrt{2}e^1 \otimes e_5$	{124568, 13457, 2346, 478, 124568, 13457, 2346, 478}
93:48	$0, 0, 0, 0, 0, 0, \frac{15}{131}\sqrt{11}e^{13} + \frac{3}{131}\sqrt{253}e^{24}, \frac{3}{131}\sqrt{319}e^{12} + \frac{9}{131}\sqrt{33}e^{34},$ $\frac{12}{131}\sqrt{22}e^{15} + \frac{6}{131}\sqrt{22}e^{26}$	$(0, \frac{12}{131}, \frac{12}{131}, 0, -\frac{9}{131}, -\frac{21}{131}, \frac{12}{131}, \frac{12}{131}, -\frac{9}{131})$ $+ \frac{18}{131}\sqrt{14}e^4 \otimes e_9 + \frac{36}{131}\sqrt{2}e^1 \otimes e_5$	{124568, 13457, 2346, 478, 124568, 13457, 2346, 478}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{1155}e^{13} + \frac{1}{63}\sqrt{21}e^{24}, -\frac{1}{9}\sqrt{3}e^{12} + \frac{1}{63}\sqrt{357}e^{34},$ $\frac{2}{9}\sqrt{3}e^{15} + \frac{4}{63}\sqrt{42}e^{26}$	$(\frac{2}{9}, -\frac{2}{9}, -\frac{2}{9}, \frac{2}{9}, -\frac{1}{9}, \frac{1}{3}, 0, 0, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{273}e^1 \otimes e_5 + \frac{8}{63}\sqrt{21}e^6 \otimes e_7$	{1236, 178, 2568, 357, 1236, 178, 2568, 357}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{63}\sqrt{1155}e^{13} + \frac{1}{63}\sqrt{21}e^{24}, \frac{1}{9}\sqrt{3}e^{12} + \frac{1}{63}\sqrt{357}e^{34},$ $\frac{2}{9}\sqrt{3}e^{15} + \frac{4}{63}\sqrt{42}e^{26}$	$(\frac{2}{9}, -\frac{2}{9}, -\frac{2}{9}, \frac{2}{9}, -\frac{1}{9}, \frac{1}{3}, 0, 0, \frac{1}{9})$ $+ \frac{2}{63}\sqrt{273}e^1 \otimes e_5 + \frac{8}{63}\sqrt{21}e^6 \otimes e_7$	{1236, 178, 2568, 357, 1236, 178, 2568, 357}
93:48	$0, 0, 0, 0, 0, 0, \frac{5}{281}\sqrt{597}e^{13} + \frac{5}{281}\sqrt{411}e^{24}, -\frac{15}{281}\sqrt{31}e^{12} + \frac{5}{281}\sqrt{465}e^{34},$ $\frac{10}{281}\sqrt{30}e^{15} + \frac{20}{281}\sqrt{39}e^{26}$	$(\frac{20}{281}, \frac{40}{281}, \frac{40}{281}, \frac{20}{281}, -\frac{55}{281}, -\frac{75}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{10}{281}\sqrt{282}e^3 \otimes e_9 + \frac{40}{281}\sqrt{6}e^1 \otimes e_5$	{124789, 1679, 259, 45689, 124789, 1679, 259, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:48	$0, 0, 0, 0, 0, 0, \frac{5}{281}\sqrt{597e^{13}} + \frac{5}{281}\sqrt{411e^{24}}, \frac{15}{281}\sqrt{31e^{12}} + \frac{5}{281}\sqrt{465e^{34}},$ $\frac{10}{281}\sqrt{30e^{15}} + \frac{20}{281}\sqrt{39e^{26}}$	$(\frac{20}{281}, \frac{40}{281}, \frac{40}{281}, \frac{20}{281}, -\frac{55}{281}, -\frac{75}{281}, \frac{60}{281}, \frac{60}{281}, -\frac{35}{281})$ $+ \frac{10}{281}\sqrt{282e^3} \otimes e_9 + \frac{40}{281}\sqrt{6e^1} \otimes e_5$	{124789, 1679, 259, 45689, 124789, 1679, 259, 45689}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{271}\sqrt{6235e^{13}} + \frac{3}{271}\sqrt{2813e^{24}},$ $-\frac{3}{271}\sqrt{5771e^{12}} + \frac{27}{271}\sqrt{29e^{34}}, \frac{6}{271}\sqrt{899e^{15}} + \frac{12}{271}\sqrt{58e^{26}}$	$(\frac{126}{271}, -\frac{30}{271}, -\frac{30}{271}, \frac{126}{271}, -\frac{135}{271}, \frac{21}{271}, \frac{96}{271}, \frac{96}{271}, -\frac{9}{271})$ $+ \frac{18}{271}\sqrt{377e^1} \otimes e_5$	{1236, 12467, 1348, 178, 2345678, 2568, 357, 45, 1236, 12467, 1348, 178, 2345678, 2568, 357, 45}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{271}\sqrt{6235e^{13}} + \frac{3}{271}\sqrt{2813e^{24}},$ $\frac{3}{271}\sqrt{5771e^{12}} + \frac{27}{271}\sqrt{29e^{34}}, \frac{6}{271}\sqrt{899e^{15}} + \frac{12}{271}\sqrt{58e^{26}}$	$(\frac{126}{271}, -\frac{30}{271}, -\frac{30}{271}, \frac{126}{271}, -\frac{135}{271}, \frac{21}{271}, \frac{96}{271}, \frac{96}{271}, -\frac{9}{271})$ $+ \frac{18}{271}\sqrt{377e^1} \otimes e_5$	{1236, 12467, 1348, 178, 2345678, 2568, 357, 45, 1236, 12467, 1348, 178, 2345678, 2568, 357, 45}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{51e^{13}} + \frac{1}{43}\sqrt{87e^{24}}, -\frac{1}{43}\sqrt{69e^{12}} + \frac{3}{43}\sqrt{23e^{34}},$ $\frac{1}{43}\sqrt{138e^{15}} + \frac{2}{43}\sqrt{30e^{26}}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{1}{43}\sqrt{174e^5} \otimes e_8 + \frac{7}{43}\sqrt{6e^3} \otimes e_9$	{124789, 1345, 259, 378, 124789, 1345, 259, 378}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{51e^{13}} + \frac{1}{43}\sqrt{87e^{24}}, \frac{1}{43}\sqrt{69e^{12}} + \frac{3}{43}\sqrt{23e^{34}},$ $\frac{1}{43}\sqrt{138e^{15}} + \frac{2}{43}\sqrt{30e^{26}}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{1}{43}\sqrt{174e^5} \otimes e_8 + \frac{7}{43}\sqrt{6e^3} \otimes e_9$	{124789, 1345, 259, 378, 124789, 1345, 259, 378}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{1065e^{13}} + \frac{3}{457}\sqrt{31e^{24}}, -\frac{1}{457}\sqrt{831e^{12}} + \frac{3}{457}\sqrt{65e^{34}},$ $\frac{6}{457}\sqrt{2e^{15}} + \frac{6}{457}\sqrt{35e^{26}}$	$(-\frac{16}{457}, \frac{10}{457}, \frac{10}{457}, -\frac{16}{457}, \frac{23}{457}, -\frac{3}{457}, -\frac{6}{457}, -\frac{6}{457}, \frac{7}{457})$ $+ \frac{10}{457}\sqrt{15e^3} \otimes e_9 + \frac{2}{457}\sqrt{258e^6} \otimes e_7$	{123568, 124789, 378, 45689, 123568, 124789, 378, 45689}
93:48	$0, 0, 0, 0, 0, 0, \frac{1}{457}\sqrt{1065e^{13}} + \frac{3}{457}\sqrt{31e^{24}}, \frac{1}{457}\sqrt{831e^{12}} + \frac{3}{457}\sqrt{65e^{34}},$ $\frac{6}{457}\sqrt{2e^{15}} + \frac{6}{457}\sqrt{35e^{26}}$	$(-\frac{16}{457}, \frac{10}{457}, \frac{10}{457}, -\frac{16}{457}, \frac{23}{457}, -\frac{3}{457}, -\frac{6}{457}, -\frac{6}{457}, \frac{7}{457})$ $+ \frac{10}{457}\sqrt{15e^3} \otimes e_9 + \frac{2}{457}\sqrt{258e^6} \otimes e_7$	{123568, 124789, 378, 45689, 123568, 124789, 378, 45689}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{283}\sqrt{1909e^{13}} + \frac{21}{283}\sqrt{115e^{24}},$ $-\frac{3}{283}\sqrt{2599e^{12}} + \frac{9}{283}\sqrt{115e^{34}}, \frac{69}{283}\sqrt{10e^{15}} + \frac{3}{283}\sqrt{2162e^{26}}$	$(-\frac{60}{283}, \frac{21}{283}, \frac{21}{283}, -\frac{60}{283}, \frac{168}{283}, \frac{87}{283}, -\frac{39}{283}, -\frac{39}{283}, \frac{108}{283})$ $+ \frac{27}{283}\sqrt{138e^5} \otimes e_7$	{123458, 126789, 1356, 1479, 237, 24569, 34678, 589, 123458, 126789, 1356, 1479, 237, 24569, 34678, 589}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{283}\sqrt{1909e^{13}} + \frac{21}{283}\sqrt{115e^{24}},$ $\frac{3}{283}\sqrt{2599e^{12}} + \frac{9}{283}\sqrt{115e^{34}}, \frac{69}{283}\sqrt{10e^{15}} + \frac{3}{283}\sqrt{2162e^{26}}$	$(-\frac{60}{283}, \frac{21}{283}, \frac{21}{283}, -\frac{60}{283}, \frac{168}{283}, \frac{87}{283}, -\frac{39}{283}, -\frac{39}{283}, \frac{108}{283})$ $+ \frac{27}{283}\sqrt{138e^5} \otimes e_7$	{123458, 126789, 1356, 1479, 237, 24569, 34678, 589, 123458, 126789, 1356, 1479, 237, 24569, 34678, 589}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{289}\sqrt{2101e^{13}} + \frac{3}{289}\sqrt{1595e^{24}},$ $-\frac{3}{289}\sqrt{2167e^{12}} + \frac{27}{289}\sqrt{33e^{34}}, \frac{6}{289}\sqrt{286e^{15}} + \frac{12}{289}\sqrt{187e^{26}}$	$(-\frac{12}{289}, \frac{72}{289}, \frac{72}{289}, -\frac{12}{289}, -\frac{15}{289}, -\frac{99}{289}, \frac{60}{289}, \frac{60}{289}, -\frac{27}{289})$ $+ \frac{18}{289}\sqrt{154e^3} \otimes e_9$	{123568, 124789, 1345, 1679, 23467, 259, 378, 45689, 123568, 124789, 1345, 1679, 23467, 259, 378, 45689}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{289}\sqrt{2101e^{13}} + \frac{3}{289}\sqrt{1595e^{24}},$ $\frac{3}{289}\sqrt{2167e^{12}} + \frac{27}{289}\sqrt{33e^{34}}, \frac{6}{289}\sqrt{286e^{15}} + \frac{12}{289}\sqrt{187e^{26}}$	$(-\frac{12}{289}, \frac{72}{289}, \frac{72}{289}, -\frac{12}{289}, -\frac{15}{289}, -\frac{99}{289}, \frac{60}{289}, \frac{60}{289}, -\frac{27}{289})$ $+ \frac{18}{289}\sqrt{154e^3} \otimes e_9$	{123568, 124789, 1345, 1679, 23467, 259, 378, 45689, 123568, 124789, 1345, 1679, 23467, 259, 378, 45689}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{457}\sqrt{61e^{13}} + \frac{1}{457}\sqrt{795e^{24}}, -\frac{3}{457}\sqrt{35e^{12}} + \frac{1}{457}\sqrt{1101e^{34}},$ $\frac{6}{457}\sqrt{2e^{15}} + \frac{6}{457}\sqrt{35e^{26}}$	$(-\frac{16}{457}, \frac{10}{457}, \frac{10}{457}, -\frac{16}{457}, \frac{23}{457}, -\frac{3}{457}, -\frac{6}{457}, -\frac{6}{457}, \frac{7}{457})$ $+ \frac{10}{457}\sqrt{15e^3} \otimes e_9 + \frac{2}{457}\sqrt{258e^6} \otimes e_8$	{124789, 1679, 23467, 378, 124789, 1679, 23467, 378}
93:48	$0, 0, 0, 0, 0, 0, \frac{3}{457}\sqrt{61e^{13}} + \frac{1}{457}\sqrt{795e^{24}}, \frac{3}{457}\sqrt{35e^{12}} + \frac{1}{457}\sqrt{1101e^{34}},$ $\frac{6}{457}\sqrt{2e^{15}} + \frac{6}{457}\sqrt{35e^{26}}$	$(-\frac{16}{457}, \frac{10}{457}, \frac{10}{457}, -\frac{16}{457}, \frac{23}{457}, -\frac{3}{457}, -\frac{6}{457}, -\frac{6}{457}, \frac{7}{457})$ $+ \frac{10}{457}\sqrt{15e^3} \otimes e_9 + \frac{2}{457}\sqrt{258e^6} \otimes e_8$	{124789, 1679, 23467, 378, 124789, 1679, 23467, 378}
93:49	$0, 0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5e^{14}} - \frac{2}{25}\sqrt{5e^{23}}, \frac{2}{25}\sqrt{42e^{13}} + \frac{6}{25}\sqrt{3e^{24}},$ $\frac{2}{25}\sqrt{14e^{15}} + \frac{2}{25}\sqrt{33e^{26}}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{6}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{47e^1} \otimes e_5 + \frac{4}{25}\sqrt{11e^3} \otimes e_9$	{12367, 134, 2345678, 358, 12367, 134, 2345678, 358}
93:49	$0, 0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5e^{14}} + \frac{2}{25}\sqrt{5e^{23}}, \frac{2}{25}\sqrt{42e^{13}} + \frac{6}{25}\sqrt{3e^{24}},$ $\frac{2}{25}\sqrt{14e^{15}} + \frac{2}{25}\sqrt{33e^{26}}$	$(\frac{2}{25}, \frac{2}{25}, \frac{4}{25}, \frac{4}{25}, -\frac{6}{25}, -\frac{6}{25}, \frac{6}{25}, \frac{6}{25}, -\frac{4}{25})$ $+ \frac{2}{25}\sqrt{47e^1} \otimes e_5 + \frac{4}{25}\sqrt{11e^3} \otimes e_9$	{12367, 134, 2345678, 358, 12367, 134, 2345678, 358}
93:49	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{78e^{14}} - \frac{1}{35}\sqrt{21e^{23}}, \frac{2}{35}\sqrt{11e^{13}} + \frac{1}{35}\sqrt{55e^{24}},$ $\frac{1}{35}\sqrt{62e^{15}} + \frac{1}{35}\sqrt{71e^{26}}$	$(\frac{3}{35}, \frac{3}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{1}{35}, \frac{1}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{4}{35})$ $+ \frac{1}{35}\sqrt{65e^1} \otimes e_5 + \frac{2}{35}\sqrt{17e^6} \otimes e_7$	{12468, 178, 256, 457, 12468, 178, 256, 457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:49	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{78}e^{14} + \frac{1}{35}\sqrt{21}e^{23}, \frac{2}{35}\sqrt{11}e^{13} + \frac{1}{35}\sqrt{55}e^{24},$ $\frac{1}{35}\sqrt{62}e^{15} + \frac{1}{35}\sqrt{71}e^{26}$	$(\frac{3}{35}, \frac{3}{35}, -\frac{4}{35}, -\frac{4}{35}, \frac{1}{35}, \frac{1}{35}, -\frac{1}{35}, -\frac{1}{35}, \frac{4}{35})$ $+ \frac{1}{35}\sqrt{65}e^1 \otimes e_5 + \frac{2}{35}\sqrt{17}e^6 \otimes e_7$	{12468, 178, 256, 457, 12468, 178, 256, 457}
93:49	$0, 0, 0, 0, 0, 0, \frac{23}{227}\sqrt{21}e^{14} - \frac{1}{227}\sqrt{19803}e^{23},$ $\frac{1}{227}\sqrt{19803}e^{13} + \frac{23}{227}\sqrt{21}e^{24}, \frac{10}{227}\sqrt{161}e^{15} + \frac{10}{227}\sqrt{161}e^{26}$	$(-\frac{42}{227}, -\frac{42}{227}, \frac{104}{227}, \frac{104}{227}, -\frac{15}{227}, -\frac{15}{227}, \frac{62}{227}, \frac{62}{227}, -\frac{57}{227})$ $+ \frac{8}{227}\sqrt{966}e^3 \otimes e_9$	{12356, 124789, 13457, 1689, 378, 4569, 12356, 124789, 13457, 1689, 378, 4569}
93:49	$0, 0, 0, 0, 0, 0, \frac{23}{227}\sqrt{21}e^{14} + \frac{1}{227}\sqrt{19803}e^{23},$ $\frac{1}{227}\sqrt{19803}e^{13} + \frac{23}{227}\sqrt{21}e^{24}, \frac{10}{227}\sqrt{161}e^{15} + \frac{10}{227}\sqrt{161}e^{26}$	$(-\frac{42}{227}, -\frac{42}{227}, \frac{104}{227}, \frac{104}{227}, -\frac{15}{227}, -\frac{15}{227}, \frac{62}{227}, \frac{62}{227}, -\frac{57}{227})$ $+ \frac{8}{227}\sqrt{966}e^3 \otimes e_9$	{12356, 124789, 13457, 1689, 378, 4569, 12356, 124789, 13457, 1689, 378, 4569}
93:49	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{14}e^{14} - \frac{9}{13}e^{23}, \frac{3}{13}\sqrt{14}e^{13} + \frac{9}{13}e^{24},$ $\frac{6}{13}\sqrt{3}e^{15} + \frac{3}{13}\sqrt{11}e^{26}$	$(\frac{5}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{1}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{23}e^1 \otimes e_5$	{12367, 134, 178, 2345678, 256, 358, 12367, 134, 178, 2345678, 256, 358}
93:49	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{14}e^{14} + \frac{9}{13}e^{23}, \frac{3}{13}\sqrt{14}e^{13} + \frac{9}{13}e^{24},$ $\frac{6}{13}\sqrt{3}e^{15} + \frac{3}{13}\sqrt{11}e^{26}$	$(\frac{5}{13}, \frac{5}{13}, -\frac{1}{13}, -\frac{1}{13}, -\frac{4}{13}, -\frac{4}{13}, \frac{4}{13}, \frac{4}{13}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{23}e^1 \otimes e_5$	{12367, 134, 178, 2345678, 256, 358, 12367, 134, 178, 2345678, 256, 358}
93:50	$0, 0, 0, 0, 0, 0, \frac{36}{485}e^{14} + \frac{24}{485}\sqrt{66}e^{23}, \frac{12}{485}\sqrt{6}e^{13} + \frac{12}{485}\sqrt{273}e^{25},$ $\frac{12}{485}\sqrt{390}e^{12} + \frac{12}{485}\sqrt{273}e^{36}$	$(\frac{18}{97}, -\frac{84}{485}, \frac{48}{485}, \frac{126}{485}, \frac{222}{485}, -\frac{42}{485}, -\frac{36}{485}, \frac{138}{485}, \frac{6}{485})$ $+ \frac{24}{485}\sqrt{129}e^1 \otimes e_4 + \frac{72}{485}\sqrt{22}e^5 \otimes e_9$	{1679, 4578}
93:50	$0, 0, 0, 0, 0, 0, \frac{4}{99}\sqrt{93}e^{14} + \frac{8}{33}\sqrt{2}e^{23}, \frac{8}{33}\sqrt{2}e^{13} + \frac{4}{99}\sqrt{93}e^{25},$ $\frac{16}{33}e^{12} + \frac{4}{99}\sqrt{93}e^{36}$	$(\frac{10}{99}, \frac{10}{99}, -\frac{14}{99}, -\frac{14}{99}, -\frac{14}{99}, \frac{34}{99}, -\frac{4}{99}, -\frac{4}{99}, \frac{20}{99})$ $+ \frac{16}{33}e^1 \otimes e_4 + \frac{16}{33}e^2 \otimes e_5$	{123, 456}
93:50	$0, 0, 0, 0, 0, 0, \frac{4}{183}\sqrt{1218}e^{14} + \frac{8}{183}\sqrt{182}e^{23}, \frac{8}{183}\sqrt{91}e^{13} + \frac{4}{183}\sqrt{1218}e^{25},$ $\frac{8}{183}\sqrt{182}e^{12} + \frac{28}{183}\sqrt{10}e^{36}$	$(-\frac{34}{183}, \frac{44}{183}, \frac{6}{61}, \frac{32}{61}, -\frac{20}{183}, -\frac{8}{183}, \frac{62}{183}, -\frac{16}{183}, \frac{10}{183})$ $+ \frac{8}{183}\sqrt{546}e^4 \otimes e_8$	{1346, 1578, 3589, 4679}
93:50	$0, 0, 0, 0, 0, 0, \frac{4}{339}\sqrt{165}e^{14} + \frac{4}{339}\sqrt{26}e^{23}, \frac{4}{339}\sqrt{26}e^{13} + \frac{4}{339}\sqrt{165}e^{25},$ $\frac{8}{339}\sqrt{26}e^{12} + \frac{4}{339}\sqrt{61}e^{36}$	$(-\frac{8}{339}, -\frac{8}{339}, \frac{6}{113}, \frac{6}{113}, \frac{6}{113}, -\frac{34}{339}, \frac{10}{339}, \frac{10}{339}, -\frac{16}{339})$ $+ \frac{8}{339}\sqrt{39}e^4 \otimes e_8 + \frac{8}{339}\sqrt{39}e^5 \otimes e_7$	{123789, 124569}
93:50	$0, 0, 0, 0, 0, 0, \frac{4}{345}\sqrt{805}e^{14} + \frac{8}{345}\sqrt{182}e^{23}, \frac{4}{345}\sqrt{182}e^{13} + \frac{4}{345}\sqrt{1169}e^{25},$ $\frac{4}{345}\sqrt{182}e^{12} + \frac{4}{345}\sqrt{805}e^{36}$	$(-\frac{2}{23}, -\frac{4}{345}, \frac{16}{115}, \frac{74}{345}, \frac{22}{345}, -\frac{82}{345}, \frac{44}{345}, \frac{6}{115}, -\frac{34}{345})$ $+ \frac{8}{345}\sqrt{273}e^4 \otimes e_8 + \frac{8}{345}\sqrt{273}e^5 \otimes e_9$	{123789, 234567}
93:50	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{186}e^{14} + \frac{8}{79}\sqrt{15}e^{23}, \frac{16}{79}\sqrt{6}e^{13} + \frac{4}{79}\sqrt{186}e^{25},$ $\frac{16}{79}\sqrt{6}e^{12} + \frac{4}{79}\sqrt{66}e^{36}$	$(\frac{20}{79}, -\frac{14}{79}, \frac{6}{79}, -\frac{28}{79}, \frac{40}{79}, 0, -\frac{8}{79}, \frac{26}{79}, \frac{6}{79})$ $+ \frac{16}{79}\sqrt{3}e^1 \otimes e_4 + \frac{24}{79}\sqrt{10}e^5 \otimes e_7$	{2478, 3479}
93:51	$0, 0, 0, 0, 0, 0, \frac{3}{613}\sqrt{1914}e^{14} + \frac{6}{613}\sqrt{1047}e^{23}, \frac{99}{613}\sqrt{2}e^{13} + \frac{9}{613}\sqrt{202}e^{25},$ $\frac{6}{613}\sqrt{6}e^{12} + \frac{6}{613}\sqrt{1077}e^{46}$	$(\frac{36}{613}, -\frac{81}{613}, \frac{36}{613}, -\frac{81}{613}, \frac{153}{613}, \frac{36}{613}, -\frac{45}{613}, \frac{72}{613}, -\frac{45}{613})$ $+ \frac{3}{613}\sqrt{6078}e^3 \otimes e_9 + \frac{6}{613}\sqrt{1005}e^6 \otimes e_7$	{1689, 378}
93:51	$0, 0, 0, 0, 0, 0, \frac{1}{322}\sqrt{10659}e^{14} + \frac{1}{644}\sqrt{53295}e^{23},$ $\frac{1}{644}\sqrt{53295}e^{13} + \frac{1}{644}\sqrt{227766}e^{25}, \frac{1}{322}\sqrt{36465}e^{12} + \frac{1}{161}\sqrt{12903}e^{46}$	$(\frac{121}{1288}, -\frac{361}{1288}, \frac{50}{161}, -\frac{41}{644}, \frac{63}{92}, -\frac{79}{644}, \frac{39}{1288}, \frac{521}{1288}, -\frac{30}{161})$ $+ \frac{11}{92}\sqrt{102}e^5 \otimes e_9$	{125, 1479, 2489, 578}
93:51	$0, 0, 0, 0, 0, 0, \frac{2}{617}\sqrt{101346}e^{14} + \frac{2}{617}\sqrt{20193}e^{23},$ $\frac{2}{617}\sqrt{20193}e^{13} + \frac{8}{617}\sqrt{1905}e^{25}, \frac{2}{617}\sqrt{11811}e^{12} + \frac{4}{617}\sqrt{4191}e^{46}$	$(-\frac{79}{617}, \frac{107}{617}, \frac{209}{617}, \frac{395}{617}, \frac{23}{617}, -\frac{367}{617}, \frac{316}{617}, \frac{130}{617}, \frac{28}{617})$ $+ \frac{2}{617}\sqrt{195834}e^4 \otimes e_6$	{13458, 167, 23457, 268}
93:51	$0, 0, 0, 0, 0, 0, \frac{230}{1381}\sqrt{11}e^{14} + \frac{23}{1381}\sqrt{770}e^{23},$ $\frac{23}{1381}\sqrt{946}e^{13} + \frac{46}{1381}\sqrt{374}e^{25}, \frac{46}{1381}\sqrt{341}e^{12} + \frac{138}{1381}\sqrt{33}e^{46}$	$(-\frac{138}{1381}, \frac{253}{1381}, \frac{115}{1381}, \frac{506}{1381}, -\frac{276}{1381}, -\frac{391}{1381}, \frac{368}{1381}, -\frac{23}{1381}, \frac{115}{1381})$ $+ \frac{23}{1381}\sqrt{2894}e^4 \otimes e_8 + \frac{23}{1381}\sqrt{538}e^2 \otimes e_5$	{1346, 479}
93:51	$0, 0, 0, 0, 0, 0, \frac{31}{6885}\sqrt{1562}e^{14} + \frac{62}{6885}\sqrt{263}e^{23},$ $\frac{31}{1377}\sqrt{102}e^{13} + \frac{31}{6885}\sqrt{4458}e^{25}, \frac{31}{6885}\sqrt{1102}e^{12} + \frac{31}{6885}\sqrt{5478}e^{46}$	$(\frac{217}{2295}, -\frac{62}{765}, -\frac{31}{1377}, -\frac{1364}{6885}, \frac{62}{405}, \frac{1457}{6885}, -\frac{713}{6885}, \frac{496}{6885}, \frac{31}{2295})$ $+ \frac{31}{6885}\sqrt{5378}e^5 \otimes e_9 + \frac{62}{6885}\sqrt{1801}e^6 \otimes e_8$	{2456, 679}
93:51	$0, 0, 0, 0, 0, 0, \frac{5}{111}\sqrt{69}e^{14} + \frac{5}{74}\sqrt{46}e^{23}, \frac{5}{111}\sqrt{66}e^{13} + \frac{5}{74}\sqrt{14}e^{25},$ $\frac{5}{222}\sqrt{498}e^{12} + \frac{5}{111}\sqrt{42}e^{46}$	$(-\frac{10}{111}, \frac{35}{111}, \frac{5}{111}, \frac{50}{111}, -\frac{40}{111}, -\frac{25}{111}, \frac{40}{111}, -\frac{5}{111}, \frac{25}{111})$ $+ \frac{5}{111}\sqrt{339}e^2 \otimes e_5 + \frac{5}{222}\sqrt{1038}e^4 \otimes e_6$	{1267, 3457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:51	$0, 0, 0, 0, 0, 0, \frac{4}{2573}\sqrt{129903e^{14}} + \frac{4}{2573}\sqrt{230603e^{23}},$ $\frac{4}{2573}\sqrt{42294e^{13}} + \frac{6}{2573}\sqrt{10070e^{25}}, \frac{2}{2573}\sqrt{617291e^{12}} + \frac{2}{2573}\sqrt{896230e^{46}}$	$(\frac{670}{2573}, \frac{12}{2573}, -\frac{343}{2573}, -\frac{1001}{2573}, \frac{315}{2573}, \frac{1683}{2573}, -\frac{331}{2573}, \frac{327}{2573}, \frac{22}{83})$ $+ \frac{4}{2573}\sqrt{545794e^6} \otimes e_7$	{13578, 146, 3479, 5689}
93:51	$0, 0, 0, 0, 0, 0, \frac{16}{2549}\sqrt{3515e^{14}} + \frac{6}{2549}\sqrt{9842e^{23}},$ $\frac{2}{2549}\sqrt{681910e^{13}} + \frac{18}{2549}\sqrt{7030e^{25}}, \frac{10}{2549}\sqrt{20387e^{12}} + \frac{2}{2549}\sqrt{842194e^{46}}$	$(\frac{432}{2549}, \frac{398}{2549}, -\frac{487}{2549}, -\frac{521}{2549}, -\frac{453}{2549}, \frac{1351}{2549}, -\frac{89}{2549}, -\frac{55}{2549}, \frac{830}{2549})$ $+ \frac{8}{2549}\sqrt{96311e^6} \otimes e_8$	{2378, 2456, 34589, 679}
93:51	$0, 0, 0, 0, 0, 0, \frac{47}{5637}\sqrt{834e^{14}} + \frac{47}{5637}\sqrt{1702e^{23}},$ $\frac{94}{1879}\sqrt{26e^{13}} + \frac{329}{5637}\sqrt{38e^{25}}, \frac{47}{5637}\sqrt{354e^{12}} + \frac{47}{5637}\sqrt{3598e^{46}}$	$(\frac{282}{1879}, -\frac{329}{1879}, \frac{235}{5637}, -\frac{1598}{5637}, \frac{2068}{5637}, \frac{1457}{5637}, -\frac{752}{5637}, \frac{1081}{5637}, -\frac{47}{1879})$ $+ \frac{47}{5637}\sqrt{4762e^5} \otimes e_9 + \frac{94}{5637}\sqrt{1319e^6} \otimes e_7$	{13578, 3479}
93:51	$0, 0, 0, 0, 0, 0, \frac{9}{2047}\sqrt{1986e^{14}} + \frac{9}{2047}\sqrt{1830e^{23}},$ $\frac{162}{2047}\sqrt{5e^{13}} + \frac{27}{2047}\sqrt{526e^{25}}, \frac{27}{2047}\sqrt{190e^{12}} + \frac{9}{2047}\sqrt{4002e^{46}}$	$(-\frac{126}{2047}, -\frac{9}{2047}, \frac{225}{2047}, \frac{342}{2047}, \frac{108}{2047}, -\frac{477}{2047}, \frac{216}{2047}, \frac{99}{2047}, -\frac{135}{2047})$ $+ \frac{90}{2047}\sqrt{69e^4} \otimes e_8 + \frac{9}{2047}\sqrt{4242e^5} \otimes e_9$	{1578, 479}
93:51	$0, 0, 0, 0, 0, 0, \frac{25}{313}\sqrt{26e^{14}} + \frac{25}{313}\sqrt{42e^{23}}, \frac{60}{313}\sqrt{5e^{13}} + \frac{5}{313}\sqrt{330e^{25}},$ $\frac{20}{313}\sqrt{15e^{12}} + \frac{40}{313}\sqrt{15e^{46}}$	$(\frac{5}{313}, -\frac{60}{313}, \frac{70}{313}, \frac{5}{313}, \frac{135}{313}, -\frac{60}{313}, \frac{10}{313}, \frac{75}{313}, -\frac{55}{313})$ $+ \frac{10}{313}\sqrt{165e^5} \otimes e_7 + \frac{5}{313}\sqrt{2110e^3} \otimes e_9$	{2679, 378}
93:51	$0, 0, 0, 0, 0, 0, \frac{29}{1453}\sqrt{410e^{14}} + \frac{116}{1453}\sqrt{17e^{23}},$ $\frac{116}{1453}\sqrt{17e^{13}} + \frac{290}{1453}\sqrt{7e^{25}}, \frac{116}{1453}\sqrt{19e^{12}} + \frac{29}{1453}\sqrt{382e^{46}}$	$(-\frac{58}{1453}, -\frac{203}{1453}, \frac{435}{1453}, \frac{290}{1453}, \frac{580}{1453}, -\frac{551}{1453}, \frac{232}{1453}, \frac{377}{1453}, -\frac{261}{1453})$ $+ \frac{29}{1453}\sqrt{1046e^4} \otimes e_6 + \frac{29}{1453}\sqrt{1534e^5} \otimes e_9$	{1679, 2689}
93:51	$0, 0, 0, 0, 0, 0, \frac{5}{62}\sqrt{53e^{14}} + \frac{1}{124}\sqrt{4929e^{23}}, \frac{1}{124}\sqrt{4929e^{13}} + \frac{1}{124}\sqrt{3498e^{25}},$ $\frac{1}{124}\sqrt{2226e^{12}} + \frac{1}{124}\sqrt{5406e^{46}}$	$(-\frac{5}{248}, -\frac{39}{248}, \frac{1}{4}, \frac{7}{62}, \frac{12}{31}, -\frac{9}{31}, \frac{23}{248}, \frac{57}{248}, -\frac{11}{62})$ $+ \frac{1}{124}\sqrt{11554e^3} \otimes e_9$	{123, 1689, 2679, 378}
93:51	$0, 0, 0, 0, 0, 0, \frac{46}{1889}\sqrt{426e^{14}} + \frac{23}{1889}\sqrt{303e^{23}},$ $\frac{92}{1889}\sqrt{47e^{13}} + \frac{23}{1889}\sqrt{1155e^{25}}, \frac{23}{1889}\sqrt{619e^{12}} + \frac{23}{1889}\sqrt{266e^{46}}$	$(-\frac{23}{1889}, -\frac{276}{1889}, \frac{368}{1889}, \frac{115}{1889}, \frac{621}{1889}, -\frac{414}{1889}, \frac{92}{1889}, \frac{345}{1889}, -\frac{299}{1889})$ $+ \frac{23}{1889}\sqrt{1381e^4} \otimes e_6 + \frac{23}{1889}\sqrt{2110e^5} \otimes e_7$	{2356, 2478}
93:51	$0, 0, 0, 0, 0, 0, \frac{12}{2501}\sqrt{24985e^{14}} + \frac{12}{2501}\sqrt{12065e^{23}},$ $\frac{12}{2501}\sqrt{13490e^{13}} + \frac{6}{2501}\sqrt{98230e^{25}}, \frac{6}{2501}\sqrt{51395e^{12}} + \frac{18}{2501}\sqrt{570e^{46}}$	$(\frac{406}{2501}, -\frac{652}{2501}, \frac{409}{2501}, -\frac{649}{2501}, \frac{1467}{2501}, \frac{403}{2501}, -\frac{243}{2501}, \frac{815}{2501}, -\frac{6}{61})$ $+ \frac{12}{2501}\sqrt{51110e^5} \otimes e_7$	{2356, 2478, 34679, 589}
93:51	$0, 0, 0, 0, 0, 0, \frac{96}{2573}\sqrt{173e^{14}} + \frac{2}{2573}\sqrt{223170e^{23}},$ $\frac{2}{2573}\sqrt{353958e^{13}} + \frac{2}{2573}\sqrt{553254e^{25}}, \frac{2}{2573}\sqrt{455163e^{12}} + \frac{6}{2573}\sqrt{51554e^{46}}$	$(-\frac{224}{2573}, \frac{590}{2573}, \frac{97}{2573}, \frac{911}{2573}, -\frac{717}{2573}, -\frac{545}{2573}, \frac{687}{2573}, -\frac{127}{2573}, \frac{366}{2573})$ $+ \frac{8}{2573}\sqrt{72141e^4} \otimes e_8$	{1346, 1578, 35689, 479}
93:51	$0, 0, 0, 0, 0, 0, \frac{17}{677}\sqrt{518e^{14}} + \frac{34}{677}\sqrt{123e^{23}},$ $\frac{34}{677}\sqrt{123e^{13}} + \frac{34}{677}\sqrt{87e^{25}}, \frac{17}{677}\sqrt{222e^{12}} + \frac{102}{677}\sqrt{15e^{46}}$	$(-\frac{17}{677}, -\frac{102}{677}, \frac{170}{677}, \frac{85}{677}, \frac{255}{677}, -\frac{204}{677}, \frac{68}{677}, \frac{153}{677}, -\frac{119}{677})$ $+ \frac{17}{677}\sqrt{1162e^3} \otimes e_9 + \frac{17}{677}\sqrt{30e^4} \otimes e_6$	{1689, 2679}
93:51	$0, 0, 0, 0, 0, 0, \frac{8}{117}\sqrt{7e^{14}} + \frac{2}{117}\sqrt{1043e^{23}}, \frac{4}{39}\sqrt{7e^{13}} + \frac{28}{117}e^{25},$ $\frac{7}{117}\sqrt{6e^{12}} + \frac{1}{117}\sqrt{2030e^{46}}$	$(\frac{14}{117}, \frac{7}{39}, -\frac{7}{39}, -\frac{14}{117}, -\frac{28}{117}, \frac{49}{117}, 0, -\frac{7}{117}, \frac{35}{117})$ $+ \frac{1}{117}\sqrt{4634e^2} \otimes e_5 + \frac{1}{117}\sqrt{5726e^6} \otimes e_7$	{127, 2369}
93:51	$0, 0, 0, 0, 0, 0, \frac{6}{2417}\sqrt{49654e^{14}} + \frac{2}{2417}\sqrt{1019535e^{23}},$ $\frac{2}{2417}\sqrt{242979e^{13}} + \frac{2}{2417}\sqrt{466422e^{25}}, \frac{2}{2417}\sqrt{1048839e^{12}} + \frac{24}{2417}\sqrt{407e^{46}}$	$(\frac{55}{2417}, \frac{1105}{2417}, -\frac{287}{2417}, \frac{763}{2417}, -\frac{1337}{2417}, \frac{397}{2417}, \frac{818}{2417}, -\frac{232}{2417}, \frac{1160}{2417})$ $+ \frac{44}{2417}\sqrt{5217e^2} \otimes e_5$	{1247, 159, 23469, 3567}
93:51	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{185e^{14}} + \frac{1}{73}\sqrt{222e^{23}}, \frac{2}{73}\sqrt{370e^{13}} + \frac{1}{73}\sqrt{1110e^{25}},$ $\frac{2}{73}\sqrt{185e^{12}} + \frac{2}{73}\sqrt{481e^{46}}$	$(\frac{9}{73}, \frac{16}{73}, -\frac{14}{73}, -\frac{7}{73}, -\frac{21}{73}, \frac{32}{73}, \frac{2}{73}, -\frac{5}{73}, \frac{25}{73})$ $+ \frac{1}{73}\sqrt{1110e^2} \otimes e_5 + \frac{7}{73}\sqrt{74e^6} \otimes e_8$	{124789, 158}
93:51	$0, 0, 0, 0, 0, 0, \frac{23}{2239}\sqrt{506e^{14}} + \frac{23}{6717}\sqrt{5098e^{23}},$ $\frac{184}{6717}\sqrt{42e^{13}} + \frac{23}{6717}\sqrt{3478e^{25}}, \frac{46}{6717}\sqrt{871e^{12}} + \frac{46}{6717}\sqrt{807e^{46}}$	$(-\frac{391}{6717}, \frac{92}{2239}, \frac{138}{2239}, \frac{1081}{6717}, -\frac{253}{6717}, -\frac{1196}{6717}, \frac{230}{2239}, \frac{23}{6717}, -\frac{115}{6717})$ $+ \frac{23}{6717}\sqrt{7778e^3} \otimes e_9 + \frac{46}{6717}\sqrt{1205e^2} \otimes e_5$	{123, 2679}
93:51	$0, 0, 0, 0, 0, 0, \frac{4}{1017}\sqrt{1119e^{14}} + \frac{4}{1017}\sqrt{51e^{23}},$ $\frac{8}{1017}\sqrt{33e^{13}} + \frac{4}{1017}\sqrt{1302e^{25}}, \frac{8}{339}\sqrt{26e^{12}} + \frac{4}{339}\sqrt{61e^{46}}$	$(-\frac{8}{339}, -\frac{8}{339}, \frac{6}{113}, \frac{6}{113}, \frac{6}{113}, -\frac{34}{339}, \frac{10}{339}, \frac{10}{339}, -\frac{16}{339})$ $+ \frac{4}{1017}\sqrt{1221e^5} \otimes e_7 + \frac{4}{1017}\sqrt{3e^4} \otimes e_8$	{35689, 479}
93:51	$0, 0, 0, 0, 0, 0, \frac{23}{2957}\sqrt{290e^{14}} + \frac{46}{2957}\sqrt{141e^{23}},$ $\frac{23}{2957}\sqrt{1914e^{13}} + \frac{23}{2957}\sqrt{462e^{25}}, \frac{46}{2957}\sqrt{141e^{12}} + \frac{92}{2957}\sqrt{141e^{46}}$	$(-\frac{230}{2957}, \frac{69}{2957}, \frac{368}{2957}, \frac{667}{2957}, \frac{69}{2957}, -\frac{828}{2957}, \frac{437}{2957}, \frac{138}{2957}, -\frac{161}{2957})$ $+ \frac{23}{2957}\sqrt{2614e^3} \otimes e_9 + \frac{46}{2957}\sqrt{3e^4} \otimes e_8$	{13467, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:51	$0, 0, 0, 0, 0, 0, \frac{11}{5493}\sqrt{3270}e^{14} + \frac{11}{5493}\sqrt{1946}e^{23},$ $\frac{22}{5493}\sqrt{1074}e^{13} + \frac{11}{5493}\sqrt{62}e^{25}, \frac{22}{5493}\sqrt{129}e^{12} + \frac{22}{5493}\sqrt{1231}e^{46}$	$(\frac{55}{1831}, -\frac{88}{1831}, \frac{22}{5493}, -\frac{407}{5493}, \frac{451}{5493}, \frac{308}{5493}, -\frac{242}{5493}, \frac{187}{5493}, -\frac{33}{1831})$ $+ \frac{110}{5493}\sqrt{47}e^6 \otimes e_8 + \frac{11}{5493}\sqrt{5446}e^3 \otimes e_9$	{1245789, 134567}
93:52	$0, 0, 0, 0, 0, 0, \frac{6}{89}\sqrt{146}e^{12} + \frac{18}{89}e^{34}, \frac{6}{89}\sqrt{37}e^{13} + \frac{12}{89}\sqrt{23}e^{25},$ $\frac{6}{89}\sqrt{89}e^{14} + \frac{24}{89}\sqrt{10}e^{26}$	$(-\frac{27}{445}, \frac{231}{445}, \frac{39}{445}, \frac{33}{89}, -\frac{219}{445}, -\frac{93}{445}, \frac{204}{445}, \frac{12}{445}, \frac{138}{445})$ $+ \frac{18}{89}\sqrt{42}e^2 \otimes e_5$	{1236, 1345679, 279, 45}
93:52	$0, 0, 0, 0, 0, 0, \frac{3}{187}\sqrt{814}e^{12} + \frac{9}{187}\sqrt{110}e^{34}, \frac{21}{187}\sqrt{22}e^{13} + \frac{12}{187}\sqrt{11}e^{25},$ $\frac{3}{187}\sqrt{286}e^{14} + \frac{24}{187}\sqrt{22}e^{26}$	$(0, \frac{3}{17}, \frac{6}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{6}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{3}{17})$ $+ \frac{9}{187}\sqrt{330}e^3 \otimes e_9 + \frac{9}{187}\sqrt{66}e^2 \otimes e_6$	{1689, 45679}
93:52	$0, 0, 0, 0, 0, 0, \frac{231}{2741}\sqrt{10}e^{12} + \frac{99}{2741}\sqrt{194}e^{34},$ $\frac{66}{2741}\sqrt{130}e^{13} + \frac{231}{2741}\sqrt{10}e^{25}, \frac{33}{2741}\sqrt{214}e^{14} + \frac{33}{2741}\sqrt{1102}e^{26}$	$(\frac{198}{2741}, -\frac{231}{2741}, \frac{627}{2741}, -\frac{660}{2741}, \frac{1056}{2741}, -\frac{231}{2741}, -\frac{33}{2741}, \frac{825}{2741}, -\frac{462}{2741})$ $+ \frac{792}{2741}\sqrt{5}e^3 \otimes e_9 + \frac{99}{2741}\sqrt{218}e^5 \otimes e_7$	{15689, 4679}
93:52	$0, 0, 0, 0, 0, 0, \frac{528}{7277}\sqrt{17}e^{12} + \frac{198}{7277}\sqrt{71}e^{34},$ $\frac{33}{7277}\sqrt{4106}e^{13} + \frac{33}{7277}\sqrt{5854}e^{25}, \frac{264}{7277}\sqrt{7}e^{14} + \frac{33}{7277}\sqrt{3254}e^{26}$	$(\frac{99}{7277}, \frac{66}{7277}, \frac{1221}{7277}, -\frac{1056}{7277}, \frac{66}{383}, -\frac{1023}{7277}, \frac{165}{7277}, \frac{1320}{7277}, -\frac{957}{7277})$ $+ \frac{396}{7277}\sqrt{43}e^2 \otimes e_6 + \frac{99}{7277}\sqrt{830}e^5 \otimes e_7$	{1467, 568}
93:52	$0, 0, 0, 0, 0, 0, \frac{6}{2309}\sqrt{50635}e^{12} + \frac{36}{2309}\sqrt{285}e^{34},$ $\frac{12}{2309}\sqrt{8930}e^{13} + \frac{132}{2309}\sqrt{190}e^{25}, \frac{12}{2309}\sqrt{22135}e^{14} + \frac{6}{2309}\sqrt{29830}e^{26}$	$(\frac{324}{2309}, -\frac{402}{2309}, \frac{615}{2309}, -\frac{693}{2309}, \frac{1341}{2309}, \frac{33}{2309}, -\frac{78}{2309}, \frac{939}{2309}, -\frac{369}{2309})$ $+ \frac{18}{2309}\sqrt{20710}e^5 \otimes e_9$	{123789, 124567, 13458, 169}
93:52	$0, 0, 0, 0, 0, 0, \frac{3}{283}\sqrt{2990}e^{12} + \frac{9}{283}\sqrt{506}e^{34}, \frac{12}{283}\sqrt{230}e^{13} + \frac{69}{283}\sqrt{10}e^{25},$ $\frac{3}{283}\sqrt{46}e^{14} + \frac{3}{283}\sqrt{2162}e^{26}$	$(\frac{54}{283}, -\frac{93}{283}, \frac{21}{283}, -\frac{60}{283}, \frac{168}{283}, \frac{87}{283}, -\frac{39}{283}, \frac{75}{283}, -\frac{6}{283})$ $+ \frac{27}{283}\sqrt{138}e^5 \otimes e_7$	{12569, 1467, 246789, 568}
93:52	$0, 0, 0, 0, 0, 0, \frac{6}{727}\sqrt{235}e^{12} + \frac{36}{727}\sqrt{6}e^{34}, \frac{6}{727}\sqrt{157}e^{13} + \frac{6}{727}\sqrt{118}e^{25},$ $\frac{6}{727}\sqrt{157}e^{14} + \frac{6}{727}\sqrt{118}e^{26}$	$(-\frac{18}{727}, \frac{60}{727}, \frac{21}{727}, \frac{21}{727}, -\frac{57}{727}, -\frac{57}{727}, \frac{42}{727}, \frac{3}{727}, \frac{3}{727})$ $+ \frac{18}{727}\sqrt{37}e^3 \otimes e_9 + \frac{18}{727}\sqrt{37}e^4 \otimes e_8$	{134, 15689, 3578}
93:52	$0, 0, 0, 0, 0, 0, \frac{6}{727}\sqrt{235}e^{12} + \frac{36}{727}\sqrt{6}e^{34}, \frac{6}{727}\sqrt{157}e^{13} + \frac{6}{727}\sqrt{118}e^{25},$ $\frac{6}{727}\sqrt{157}e^{14} + \frac{6}{727}\sqrt{118}e^{26}$	$(-\frac{18}{727}, \frac{60}{727}, \frac{21}{727}, \frac{21}{727}, -\frac{57}{727}, -\frac{57}{727}, \frac{42}{727}, \frac{3}{727}, \frac{3}{727})$ $+ \frac{18}{727}\sqrt{37}e^3 \otimes e_9 - \frac{18}{727}\sqrt{37}e^4 \otimes e_8$	{134, 15689, 3578}
93:52	$0, 0, 0, 0, 0, 0, \frac{8}{1121}\sqrt{246}e^{12} + \frac{12}{1121}\sqrt{65}e^{34},$ $\frac{4}{1121}\sqrt{1335}e^{13} + \frac{12}{1121}\sqrt{7}e^{25}, \frac{24}{1121}\sqrt{5}e^{14} + \frac{12}{1121}\sqrt{170}e^{26}$	$(\frac{28}{1121}, -\frac{4}{59}, \frac{2}{1121}, -\frac{50}{1121}, \frac{106}{1121}, \frac{54}{1121}, -\frac{48}{1121}, \frac{30}{1121}, -\frac{22}{1121})$ $+ \frac{4}{1121}\sqrt{1437}e^6 \otimes e_8 + \frac{4}{1121}\sqrt{1671}e^3 \otimes e_9$	{12367, 1245789}
93:52	$0, 0, 0, 0, 0, 0, \frac{18}{719}\sqrt{179}e^{12} + \frac{36}{719}\sqrt{6}e^{34}, \frac{18}{719}\sqrt{86}e^{13} + \frac{18}{719}\sqrt{203}e^{25},$ $\frac{18}{719}\sqrt{86}e^{14} + \frac{18}{719}\sqrt{203}e^{26}$	$(\frac{72}{719}, -\frac{162}{719}, -\frac{45}{719}, -\frac{45}{719}, \frac{189}{719}, \frac{189}{719}, -\frac{90}{719}, \frac{27}{719}, \frac{27}{719})$ $+ \frac{18}{719}\sqrt{327}e^5 \otimes e_9 - \frac{18}{719}\sqrt{327}e^6 \otimes e_8$	{23489, 256, 3578}
93:52	$0, 0, 0, 0, 0, 0, \frac{18}{719}\sqrt{179}e^{12} + \frac{36}{719}\sqrt{6}e^{34}, \frac{18}{719}\sqrt{86}e^{13} + \frac{18}{719}\sqrt{203}e^{25},$ $\frac{18}{719}\sqrt{86}e^{14} + \frac{18}{719}\sqrt{203}e^{26}$	$(\frac{72}{719}, -\frac{162}{719}, -\frac{45}{719}, -\frac{45}{719}, \frac{189}{719}, \frac{189}{719}, -\frac{90}{719}, \frac{27}{719}, \frac{27}{719})$ $+ \frac{18}{719}\sqrt{327}e^5 \otimes e_9 + \frac{18}{719}\sqrt{327}e^6 \otimes e_8$	{23489, 256, 3578}
93:52	$0, 0, 0, 0, 0, 0, \frac{9}{613}\sqrt{78}e^{12} + \frac{9}{613}\sqrt{398}e^{34}, \frac{99}{613}\sqrt{2}e^{13} + \frac{9}{613}\sqrt{202}e^{25},$ $\frac{18}{613}\sqrt{33}e^{14} + \frac{9}{613}\sqrt{546}e^{26}$	$(\frac{36}{613}, -\frac{81}{613}, \frac{36}{613}, -\frac{81}{613}, \frac{153}{613}, \frac{36}{613}, -\frac{45}{613}, \frac{72}{613}, -\frac{45}{613})$ $+ \frac{36}{613}\sqrt{38}e^3 \otimes e_9 + \frac{9}{613}\sqrt{514}e^6 \otimes e_7$	{1245789, 234568}
93:52	$0, 0, 0, 0, 0, 0, \frac{39}{4853}\sqrt{682}e^{12} + \frac{117}{4853}\sqrt{186}e^{34},$ $\frac{156}{4853}\sqrt{157}e^{13} + \frac{78}{4853}\sqrt{419}e^{25}, \frac{78}{4853}\sqrt{101}e^{14} + \frac{78}{4853}\sqrt{1039}e^{26}$	$(-\frac{234}{4853}, \frac{1209}{4853}, \frac{1131}{4853}, -\frac{156}{4853}, -\frac{312}{4853}, -\frac{1599}{4853}, \frac{975}{4853}, \frac{39}{4853}, -\frac{390}{4853})$ $+ \frac{117}{4853}\sqrt{362}e^2 \otimes e_5 + \frac{117}{4853}\sqrt{610}e^3 \otimes e_9$	{12367, 29}
93:52	$0, 0, 0, 0, 0, 0, \frac{9}{1085}\sqrt{130}e^{12} + \frac{9}{1085}\sqrt{30}e^{34},$ $\frac{9}{1085}\sqrt{2170}e^{13} + \frac{36}{217}\sqrt{11}e^{25}, \frac{36}{1085}\sqrt{185}e^{14} + \frac{9}{1085}\sqrt{310}e^{26}$	$(\frac{9}{1085}, \frac{108}{1085}, \frac{9}{31}, -\frac{198}{1085}, \frac{216}{1085}, -\frac{297}{1085}, \frac{117}{1085}, \frac{324}{1085}, -\frac{27}{155})$ $+ \frac{9}{1085}\sqrt{4290}e^2 \otimes e_6 + \frac{9}{217}\sqrt{222}e^5 \otimes e_9$	{2357, 568}
93:52	$0, 0, 0, 0, 0, 0, \frac{6}{2333}\sqrt{49771}e^{12} + \frac{36}{2333}\sqrt{1349}e^{34},$ $\frac{12}{2333}\sqrt{14626}e^{13} + \frac{12}{2333}\sqrt{4970}e^{25}, \frac{6}{2333}\sqrt{11218}e^{14} + \frac{12}{2333}\sqrt{18673}e^{26}$	$(\frac{54}{2333}, \frac{264}{2333}, \frac{825}{2333}, -\frac{507}{2333}, \frac{615}{2333}, -\frac{717}{2333}, \frac{318}{2333}, \frac{879}{2333}, -\frac{453}{2333})$ $+ \frac{18}{2333}\sqrt{15762}e^3 \otimes e_9$	{1345, 1689, 378, 45679}
93:53	$0, 0, 0, 0, 0, 0, \frac{8}{53}\sqrt{30}e^{12} + \frac{4}{159}\sqrt{1005}e^{34}, \frac{4}{159}\sqrt{1005}e^{15} + \frac{16}{53}\sqrt{5}e^{23},$ $\frac{16}{53}\sqrt{10}e^{14} + \frac{4}{159}\sqrt{1005}e^{26}$	$(\frac{58}{159}, -\frac{38}{159}, \frac{34}{159}, -\frac{14}{159}, -\frac{62}{159}, \frac{82}{159}, \frac{20}{159}, -\frac{4}{159}, \frac{44}{159})$ $+ \frac{16}{53}\sqrt{15}e^1 \otimes e_5$	{12369, 179, 2345679, 459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:53	$0, 0, 0, 0, 0, 0, \frac{3}{109}\sqrt{39}e^{12} + \frac{9}{109}\sqrt{43}e^{34}, \frac{6}{109}\sqrt{87}e^{15} + \frac{3}{109}\sqrt{273}e^{23},$ $\frac{3}{109}\sqrt{273}e^{14} + \frac{3}{109}\sqrt{231}e^{26}$	$(-\frac{15}{218}, \frac{12}{109}, \frac{12}{109}, -\frac{15}{218}, \frac{63}{218}, -\frac{27}{109}, \frac{9}{218}, \frac{24}{109}, -\frac{15}{109})$ $+ \frac{18}{109}\sqrt{13}e^5 \otimes e_7 + \frac{9}{109}\sqrt{13}e^3 \otimes e_9$	{146789, 5689}
93:53	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{6}e^{12} + \frac{2}{25}\sqrt{66}e^{34}, \frac{1}{25}\sqrt{177}e^{15} + \frac{1}{25}\sqrt{219}e^{23},$ $\frac{2}{25}\sqrt{66}e^{14} + \frac{2}{25}\sqrt{66}e^{26}$	$(0, \frac{1}{50}, -\frac{7}{50}, \frac{4}{25}, -\frac{3}{25}, \frac{7}{50}, \frac{1}{50}, -\frac{3}{25}, \frac{4}{25})$ $+ \frac{3}{25}\sqrt{15}e^1 \otimes e_5 + \frac{3}{25}\sqrt{29}e^6 \otimes e_7$	{124579, 134569}
93:53	$0, 0, 0, 0, 0, 0, \frac{8}{175}\sqrt{39}e^{12} + \frac{4}{175}\sqrt{714}e^{34}, \frac{4}{175}\sqrt{714}e^{15} + \frac{16}{175}\sqrt{39}e^{23},$ $\frac{16}{175}\sqrt{39}e^{14} + \frac{4}{175}\sqrt{402}e^{26}$	$(-\frac{22}{175}, \frac{6}{35}, \frac{4}{175}, \frac{4}{175}, \frac{8}{175}, -\frac{48}{175}, \frac{8}{175}, \frac{34}{175}, -\frac{18}{175})$ $+ \frac{24}{175}\sqrt{26}e^5 \otimes e_7$	{1256, 146789, 2467, 5689}
93:53	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{39}e^{12} + \frac{1}{275}\sqrt{849}e^{34}, \frac{6}{275}\sqrt{29}e^{15} + \frac{4}{275}\sqrt{39}e^{23},$ $\frac{3}{275}\sqrt{91}e^{14} + \frac{2}{275}\sqrt{183}e^{26}$	$(-\frac{19}{550}, \frac{2}{55}, -\frac{16}{275}, \frac{3}{50}, \frac{7}{550}, -\frac{3}{275}, \frac{1}{550}, -\frac{6}{275}, \frac{7}{275})$ $+ \frac{3}{275}\sqrt{65}e^6 \otimes e_8 + \frac{2}{275}\sqrt{26}e^5 \otimes e_7$	{134569, 3679}
93:53	$0, 0, 0, 0, 0, 0, \frac{5}{41}\sqrt{3}e^{12} + \frac{1}{41}\sqrt{105}e^{34}, \frac{10}{41}\sqrt{3}e^{15} + \frac{5}{41}\sqrt{15}e^{23},$ $\frac{1}{41}\sqrt{555}e^{14} + \frac{1}{41}\sqrt{105}e^{26}$	$(\frac{21}{82}, -\frac{8}{41}, \frac{14}{41}, -\frac{23}{82}, -\frac{9}{41}, \frac{7}{82}, \frac{5}{41}, \frac{6}{41}, -\frac{1}{41})$ $+ \frac{3}{41}\sqrt{65}e^3 \otimes e_9 + \frac{6}{41}\sqrt{15}e^1 \otimes e_5$	{179, 459}
93:53	$0, 0, 0, 0, 0, 0, \frac{5}{41}\sqrt{3}e^{12} + \frac{1}{41}\sqrt{105}e^{34}, \frac{1}{41}\sqrt{105}e^{15} + \frac{5}{41}\sqrt{15}e^{23},$ $\frac{1}{41}\sqrt{555}e^{14} + \frac{10}{41}\sqrt{3}e^{26}$	$(\frac{4}{41}, -\frac{3}{82}, -\frac{11}{82}, \frac{8}{41}, -\frac{11}{41}, \frac{27}{82}, \frac{5}{82}, -\frac{7}{41}, \frac{12}{41})$ $+ \frac{3}{41}\sqrt{65}e^4 \otimes e_8 + \frac{6}{41}\sqrt{15}e^1 \otimes e_5$	{2345679, 459}
93:53	$0, 0, 0, 0, 0, 0, \frac{3}{43}\sqrt{15}e^{12} + \frac{9}{43}e^{34}, \frac{6}{43}\sqrt{15}e^{15} + \frac{6}{43}\sqrt{6}e^{23},$ $\frac{3}{43}\sqrt{3}e^{14} + \frac{6}{43}\sqrt{15}e^{26}$	$(\frac{21}{86}, -\frac{6}{43}, 0, \frac{9}{86}, -\frac{33}{86}, \frac{21}{43}, \frac{9}{86}, -\frac{6}{43}, \frac{15}{43})$ $+ \frac{18}{43}\sqrt{2}e^1 \otimes e_5 + \frac{9}{43}\sqrt{17}e^6 \otimes e_8$	{124789, 2589}
93:53	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{195}e^{12} + \frac{1}{23}\sqrt{165}e^{34}, \frac{1}{23}\sqrt{30}e^{15} + \frac{1}{23}\sqrt{195}e^{23},$ $\frac{1}{23}\sqrt{195}e^{14} + \frac{1}{23}\sqrt{165}e^{26}$	$(\frac{9}{46}, -\frac{2}{23}, \frac{11}{23}, -\frac{17}{46}, \frac{9}{46}, -\frac{2}{23}, \frac{5}{46}, \frac{9}{23}, -\frac{4}{23})$ $+ \frac{3}{23}\sqrt{65}e^3 \otimes e_9$	{13458, 169, 378, 45679}
93:54	$0, 0, 0, 0, 0, 0, \frac{3}{365}\sqrt{26}e^{13} + \frac{1}{365}\sqrt{266}e^{24}, \frac{1}{365}\sqrt{246}e^{15} + \frac{4}{365}\sqrt{14}e^{23},$ $\frac{2}{365}\sqrt{79}e^{14} + \frac{2}{365}\sqrt{15}e^{26}$	$(\frac{4}{365}, \frac{9}{365}, -\frac{2}{365}, -\frac{7}{365}, \frac{3}{365}, -\frac{12}{365}, \frac{2}{365}, \frac{365}{365}, -\frac{3}{365})$ $+ \frac{1}{365}\sqrt{418}e^3 \otimes e_9 + \frac{2}{365}\sqrt{69}e^1 \otimes e_5$	{1679, 4569}
93:54	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{13} + \frac{8}{79}\sqrt{35}e^{24}, \frac{3}{79}\sqrt{210}e^{15} + \frac{1}{79}\sqrt{2310}e^{23},$ $\frac{1}{79}\sqrt{2310}e^{14} + \frac{5}{79}\sqrt{42}e^{26}$	$(-\frac{21}{79}, -\frac{7}{79}, \frac{22}{79}, \frac{8}{79}, \frac{36}{79}, -\frac{6}{79}, \frac{1}{79}, \frac{15}{79}, -\frac{13}{79})$ $+ \frac{70}{79}e^3 \otimes e_9$	{13458, 1679, 378, 4569}
93:54	$0, 0, 0, 0, 0, 0, \frac{4}{25}\sqrt{11}e^{13} + \frac{2}{25}\sqrt{15}e^{24}, \frac{2}{25}\sqrt{6}e^{15} + \frac{2}{25}\sqrt{31}e^{23},$ $\frac{2}{25}\sqrt{22}e^{14} + \frac{2}{25}\sqrt{37}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, -\frac{1}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, \frac{1}{25}, -\frac{4}{25}, \frac{6}{25})$ $+ \frac{16}{25}e^6 \otimes e_7 + \frac{6}{25}\sqrt{3}e^1 \otimes e_5$	{235789, 5689}
93:54	$0, 0, 0, 0, 0, 0, \frac{11}{205}\sqrt{46}e^{13} + \frac{11}{41}\sqrt{2}e^{24}, \frac{11}{205}\sqrt{42}e^{15} + \frac{11}{205}\sqrt{46}e^{23},$ $\frac{44}{205}\sqrt{2}e^{14} + \frac{11}{205}\sqrt{74}e^{26}$	$(\frac{44}{205}, -\frac{11}{205}, -\frac{22}{205}, \frac{33}{205}, -\frac{77}{205}, \frac{88}{205}, \frac{22}{205}, -\frac{33}{205}, \frac{77}{205})$ $+ \frac{11}{205}\sqrt{202}e^6 \otimes e_8 + \frac{44}{205}\sqrt{10}e^1 \otimes e_5$	{1348, 3578}
93:54	$0, 0, 0, 0, 0, 0, \frac{2}{5}e^{13} + \frac{2}{35}\sqrt{7}e^{24}, \frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{14}e^{14} + \frac{1}{35}\sqrt{182}e^{26}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{4}{35}\sqrt{14}e^3 \otimes e_9 + \frac{4}{35}\sqrt{14}e^6 \otimes e_7$	{123568, 12479}
93:54	$0, 0, 0, 0, 0, 0, \frac{4}{79}\sqrt{105}e^{13} + \frac{2}{79}\sqrt{665}e^{24}, \frac{1}{79}\sqrt{3010}e^{15} + \frac{1}{79}\sqrt{2590}e^{23},$ $\frac{1}{79}\sqrt{2590}e^{14} + \frac{5}{79}\sqrt{42}e^{26}$	$(-\frac{21}{79}, -\frac{7}{79}, \frac{22}{79}, \frac{8}{79}, \frac{36}{79}, -\frac{6}{79}, \frac{1}{79}, \frac{15}{79}, -\frac{13}{79})$ $+ \frac{70}{79}e^5 \otimes e_7$	{135, 146789, 347, 5689}
93:54	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{7}e^{13} + \frac{2}{35}\sqrt{7}e^{24}, \frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{210}e^{23},$ $\frac{1}{35}\sqrt{210}e^{14} + \frac{1}{35}\sqrt{42}e^{26}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{4}{35}\sqrt{14}e^3 \otimes e_9 + \frac{4}{35}\sqrt{14}e^4 \otimes e_8$	{12347, 125689}
93:54	$0, 0, 0, 0, 0, 0, \frac{1}{25}\sqrt{42}e^{13} + \frac{1}{25}\sqrt{42}e^{24}, \frac{3}{25}\sqrt{42}e^{15} + \frac{2}{25}\sqrt{42}e^{23},$ $\frac{3}{25}\sqrt{14}e^{14} + \frac{3}{25}\sqrt{42}e^{26}$	$(-\frac{7}{25}, 0, \frac{9}{25}, \frac{2}{25}, \frac{16}{25}, -\frac{1}{5}, \frac{2}{25}, \frac{9}{25}, -\frac{1}{5})$ $+ \frac{21}{25}\sqrt{2}e^5 \otimes e_9$	{23568, 2479, 3469, 578}
93:54	$0, 0, 0, 0, 0, 0, \frac{4}{25}\sqrt{5}e^{13} + \frac{2}{25}\sqrt{15}e^{24}, \frac{2}{25}\sqrt{6}e^{15} + \frac{2}{25}\sqrt{33}e^{23},$ $\frac{2}{25}\sqrt{42}e^{14} + \frac{6}{25}\sqrt{3}e^{26}$	$(\frac{2}{25}, -\frac{3}{25}, -\frac{1}{25}, \frac{4}{25}, -\frac{6}{25}, \frac{9}{25}, \frac{1}{25}, -\frac{4}{25}, \frac{6}{25})$ $+ \frac{16}{25}e^4 \otimes e_8 + \frac{6}{25}\sqrt{3}e^1 \otimes e_5$	{2578, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:54	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{7}e^{13} + \frac{2}{35}\sqrt{7}e^{24}, \frac{1}{35}\sqrt{182}e^{15} + \frac{1}{35}\sqrt{14}e^{23},$ $\frac{1}{35}\sqrt{14}e^{14} + \frac{1}{35}\sqrt{182}e^{26}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{4}{35}\sqrt{14}e^5 \otimes e_9 + \frac{4}{35}\sqrt{14}e^6 \otimes e_8$	{1234789, 1256}
93:54	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{555}e^{13} + \frac{10}{119}\sqrt{57}e^{24}, \frac{6}{119}\sqrt{170}e^{15} + \frac{2}{119}\sqrt{705}e^{23},$ $\frac{2}{119}\sqrt{2730}e^{14} + \frac{6}{119}\sqrt{35}e^{26}$	$(\frac{62}{119}, \frac{5}{17}, -\frac{31}{119}, -\frac{4}{119}, -\frac{58}{119}, \frac{23}{119}, \frac{31}{119}, \frac{4}{119}, \frac{58}{119})$ $+ \frac{90}{119}\sqrt{3}e^1 \otimes e_5$	{12369, 179, 2345679, 459}
93:54	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{13} + \frac{1}{10}\sqrt{6}e^{24}, \frac{3}{10}\sqrt{2}e^{15} + \frac{1}{10}\sqrt{30}e^{23},$ $\frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{26}$	$(\frac{2}{5}, \frac{2}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{6}e^1 \otimes e_5 - \frac{3}{10}\sqrt{6}e^2 \otimes e_6$	{1234, 1467, 56}
93:54	$0, 0, 0, 0, 0, 0, \frac{1}{10}\sqrt{6}e^{13} + \frac{1}{10}\sqrt{6}e^{24}, \frac{3}{10}\sqrt{2}e^{15} + \frac{1}{10}\sqrt{30}e^{23},$ $\frac{1}{10}\sqrt{30}e^{14} + \frac{3}{10}\sqrt{2}e^{26}$	$(\frac{2}{5}, \frac{2}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5})$ $+ \frac{3}{10}\sqrt{6}e^1 \otimes e_5 + \frac{3}{10}\sqrt{6}e^2 \otimes e_6$	{1234, 1467, 56}
93:54	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{13} + \frac{2}{35}\sqrt{35}e^{24}, \frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{154}e^{23},$ $\frac{1}{5}\sqrt{2}e^{14} + \frac{3}{35}\sqrt{14}e^{26}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $+ \frac{2}{35}\sqrt{42}e^6 \otimes e_8 + \frac{2}{35}\sqrt{70}e^3 \otimes e_9$	{13458, 1679, 378, 4569}
93:54	$0, 0, 0, 0, 0, 0, \frac{2}{35}\sqrt{21}e^{13} + \frac{2}{35}\sqrt{35}e^{24}, \frac{1}{35}\sqrt{42}e^{15} + \frac{1}{35}\sqrt{154}e^{23},$ $\frac{1}{5}\sqrt{2}e^{14} + \frac{3}{35}\sqrt{14}e^{26}$	$(-\frac{1}{5}, -\frac{1}{5}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, \frac{6}{35}, -\frac{1}{35}, -\frac{1}{35}, -\frac{1}{35})$ $- \frac{2}{35}\sqrt{42}e^6 \otimes e_8 + \frac{2}{35}\sqrt{70}e^3 \otimes e_9$	{13458, 1679, 378, 4569}
93:55	$0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{23}e^{12}, \frac{1}{75}\sqrt{874}e^{13} + \frac{1}{75}\sqrt{1518}e^{45},$ $\frac{4}{75}\sqrt{23}e^{14} + \frac{2}{75}\sqrt{46}e^{23} + \frac{1}{75}\sqrt{598}e^{56}$	$(-\frac{1}{75}, -\frac{16}{75}, \frac{7}{25}, \frac{2}{25}, \frac{14}{75}, -\frac{3}{25}, -\frac{17}{75}, \frac{4}{15}, \frac{1}{15})$ $+ \frac{1}{75}\sqrt{1886}e^4 \otimes e_7 + \frac{2}{75}\sqrt{322}e^5 \otimes e_6$	{123468, 2367}
93:55	$0, 0, 0, 0, 0, 0, \frac{9}{283}\sqrt{506}e^{12}, \frac{12}{283}\sqrt{230}e^{13} + \frac{69}{283}\sqrt{10}e^{45},$ $\frac{3}{283}\sqrt{2990}e^{14} + \frac{3}{283}\sqrt{46}e^{23} + \frac{3}{283}\sqrt{2162}e^{56}$	$(-\frac{44}{283}, -\frac{60}{283}, \frac{119}{283}, \frac{103}{283}, -\frac{28}{283}, \frac{87}{283}, -\frac{104}{283}, \frac{75}{283}, \frac{59}{283})$ $+ \frac{27}{283}\sqrt{138}e^4 \otimes e_7$	{123468, 1356789, 2367, 34569}
93:55	$0, 0, 0, 0, 0, 0, \frac{36}{2333}\sqrt{1349}e^{12}, \frac{6}{2333}\sqrt{11218}e^{13} + \frac{12}{2333}\sqrt{18673}e^{45},$ $\frac{6}{2333}\sqrt{49771}e^{14} + \frac{12}{2333}\sqrt{14626}e^{23} + \frac{12}{2333}\sqrt{4970}e^{56}$	$(\frac{194}{2333}, \frac{825}{2333}, -\frac{647}{2333}, -\frac{16}{2333}, \frac{437}{2333}, \frac{615}{2333}, \frac{1019}{2333}, -\frac{453}{2333}, \frac{178}{2333})$ $+ \frac{18}{2333}\sqrt{15762}e^2 \otimes e_8$	{1236, 1578, 279, 35689}
93:55	$0, 0, 0, 0, 0, 0, \frac{24}{569}\sqrt{115}e^{12}, \frac{6}{569}\sqrt{2990}e^{13} + \frac{12}{569}\sqrt{2415}e^{45},$ $\frac{2}{569}\sqrt{16215}e^{14} + \frac{2}{569}\sqrt{27255}e^{23} + \frac{2}{569}\sqrt{21390}e^{56}$	$(\frac{175}{569}, -\frac{29}{569}, \frac{97}{569}, -\frac{107}{569}, \frac{379}{569}, -\frac{311}{569}, \frac{146}{569}, \frac{272}{569}, \frac{68}{569})$ $+ \frac{6}{569}\sqrt{18055}e^5 \otimes e_6$	{12358, 167, 23457, 468}
93:55	$0, 0, 0, 0, 0, 0, \frac{19}{1721}\sqrt{731}e^{12}, \frac{19}{1721}\sqrt{73}e^{13} + \frac{38}{1721}\sqrt{402}e^{45},$ $\frac{57}{1721}\sqrt{91}e^{14} + \frac{76}{1721}\sqrt{61}e^{23} + \frac{133}{1721}\sqrt{10}e^{56}$	$(\frac{228}{1721}, \frac{285}{1721}, -\frac{304}{1721}, -\frac{247}{1721}, \frac{171}{1721}, -\frac{190}{1721}, \frac{513}{1721}, -\frac{76}{1721}, -\frac{19}{1721})$ $+ \frac{19}{1721}\sqrt{1165}e^5 \otimes e_6 + \frac{19}{1721}\sqrt{1982}e^2 \otimes e_8$	{23457, 468}
93:55	$0, 0, 0, 0, 0, 0, \frac{4}{2939}\sqrt{1198}e^{12}, \frac{4}{2939}\sqrt{91}e^{13} + \frac{4}{2939}\sqrt{1211}e^{45},$ $\frac{8}{2939}\sqrt{230}e^{14} + \frac{8}{2939}\sqrt{89}e^{23} + \frac{4}{2939}\sqrt{317}e^{56}$	$(\frac{44}{2939}, \frac{18}{2939}, -\frac{34}{2939}, -\frac{60}{2939}, \frac{70}{2939}, -\frac{86}{2939}, \frac{62}{2939}, \frac{10}{2939}, -\frac{16}{2939})$ $+ \frac{12}{2939}\sqrt{149}e^2 \otimes e_8 + \frac{4}{2939}\sqrt{1367}e^5 \otimes e_7$	{12459, 1346789}
93:55	$0, 0, 0, 0, 0, 0, \frac{12}{133}\sqrt{85}e^{12}, \frac{4}{133}\sqrt{102}e^{13} + \frac{2}{133}\sqrt{510}e^{45},$ $\frac{10}{133}\sqrt{51}e^{14} + \frac{6}{133}\sqrt{170}e^{23} + \frac{6}{133}\sqrt{374}e^{56}$	$(-\frac{24}{133}, -\frac{11}{133}, \frac{41}{133}, \frac{54}{133}, -\frac{37}{133}, \frac{67}{133}, -\frac{5}{19}, \frac{17}{133}, \frac{30}{133})$ $+ \frac{6}{133}\sqrt{646}e^6 \otimes e_7$	{123469, 145789, 247, 34568}
93:55	$0, 0, 0, 0, 0, 0, \frac{9}{613}\sqrt{398}e^{12}, \frac{18}{613}\sqrt{33}e^{13} + \frac{9}{613}\sqrt{546}e^{45},$ $\frac{9}{613}\sqrt{78}e^{14} + \frac{99}{613}\sqrt{2}e^{23} + \frac{9}{613}\sqrt{202}e^{56}$	$(-\frac{42}{613}, \frac{36}{613}, -\frac{3}{613}, \frac{75}{613}, -\frac{120}{613}, \frac{153}{613}, -\frac{6}{613}, -\frac{45}{613}, \frac{33}{613})$ $+ \frac{36}{613}\sqrt{38}e^2 \otimes e_8 + \frac{9}{613}\sqrt{514}e^4 \otimes e_7$	{124569, 468}
93:55	$0, 0, 0, 0, 0, 0, \frac{2}{767}\sqrt{78310}e^{12}, \frac{82}{767}\sqrt{10}e^{13} + \frac{2}{767}\sqrt{54530}e^{45},$ $\frac{10}{767}\sqrt{1763}e^{14} + \frac{82}{767}\sqrt{10}e^{23} + \frac{2}{767}\sqrt{54530}e^{56}$	$(\frac{20}{767}, -\frac{15}{59}, \frac{269}{767}, \frac{54}{767}, \frac{235}{767}, -\frac{161}{767}, -\frac{175}{767}, \frac{289}{767}, \frac{74}{767})$ $+ \frac{2}{767}\sqrt{135710}e^5 \otimes e_7$	{23679, 2478, 3456, 589}
93:55	$0, 0, 0, 0, 0, 0, \frac{2}{783}\sqrt{72362}e^{12}, \frac{4}{261}\sqrt{1865}e^{13} + \frac{4}{783}\sqrt{2611}e^{45},$ $\frac{2}{783}\sqrt{59307}e^{14} + \frac{4}{261}\sqrt{1865}e^{23} + \frac{4}{783}\sqrt{2611}e^{56}$	$(-\frac{82}{783}, -\frac{241}{783}, \frac{47}{87}, \frac{88}{261}, \frac{77}{783}, \frac{35}{261}, -\frac{323}{783}, \frac{341}{783}, \frac{182}{783})$ $+ \frac{10}{783}\sqrt{9698}e^3 \otimes e_7$	{123, 15678, 2679, 3589}
93:55	$0, 0, 0, 0, 0, 0, \frac{44}{2955}\sqrt{386}e^{12}, \frac{44}{2955}\sqrt{1001}e^{13} + \frac{132}{985}\sqrt{3}e^{45},$ $\frac{88}{2955}\sqrt{174}e^{14} + \frac{44}{2955}\sqrt{19}e^{23} + \frac{44}{2955}\sqrt{734}e^{56}$	$(-\frac{132}{985}, -\frac{22}{591}, \frac{154}{985}, \frac{748}{2955}, -\frac{682}{2955}, \frac{1034}{2955}, -\frac{506}{2955}, \frac{22}{985}, \frac{352}{2955})$ $+ \frac{44}{2955}\sqrt{1187}e^3 \otimes e_7 + \frac{44}{2955}\sqrt{1473}e^6 \otimes e_8$	{2679, 3589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:55	$0, 0, 0, 0, 0, 0, \frac{36}{2309}\sqrt{285}e^{12}, \frac{12}{2309}\sqrt{22135}e^{13} + \frac{6}{2309}\sqrt{29830}e^{45},$ $\frac{6}{2309}\sqrt{50635}e^{14} + \frac{12}{2309}\sqrt{8930}e^{23} + \frac{132}{2309}\sqrt{190}e^{56}$	$(-\frac{160}{2309}, \frac{615}{2309}, -\frac{209}{2309}, \frac{566}{2309}, -\frac{935}{2309}, \frac{1341}{2309}, \frac{455}{2309}, -\frac{369}{2309}, \frac{406}{2309})$ $+\frac{18}{2309}\sqrt{20710}e^6 \otimes e_8$	{235789, 24567, 348, 69}
93:55	$0, 0, 0, 0, 0, 0, \frac{20}{939}\sqrt{65}e^{12}, \frac{10}{939}\sqrt{130}e^{13} + \frac{20}{939}\sqrt{65}e^{45},$ $\frac{10}{939}\sqrt{267}e^{14} + \frac{20}{939}\sqrt{74}e^{23} + \frac{20}{313}\sqrt{2}e^{56}$	$(-\frac{50}{939}, \frac{5}{313}, \frac{5}{313}, \frac{80}{939}, -\frac{115}{939}, \frac{145}{939}, -\frac{35}{939}, -\frac{35}{939}, \frac{10}{313})$ $+\frac{10}{939}\sqrt{498}e^2 \otimes e_8 - \frac{40}{939}\sqrt{23}e^3 \otimes e_7$	{1236, 1578, 279, 35689}
93:55	$0, 0, 0, 0, 0, 0, \frac{20}{939}\sqrt{65}e^{12}, \frac{10}{939}\sqrt{130}e^{13} + \frac{20}{939}\sqrt{65}e^{45},$ $\frac{10}{939}\sqrt{267}e^{14} + \frac{20}{939}\sqrt{74}e^{23} + \frac{20}{313}\sqrt{2}e^{56}$	$(-\frac{50}{939}, \frac{5}{313}, \frac{5}{313}, \frac{80}{939}, -\frac{115}{939}, \frac{145}{939}, \frac{35}{939}, -\frac{35}{939}, \frac{10}{313})$ $+\frac{10}{939}\sqrt{498}e^2 \otimes e_8 + \frac{40}{939}\sqrt{23}e^3 \otimes e_7$	{1236, 1578, 279, 35689}
93:55	$0, 0, 0, 0, 0, 0, \frac{29}{1485}\sqrt{509}e^{12}, \frac{29}{495}\sqrt{21}e^{13} + \frac{232}{1485}\sqrt{10}e^{45},$ $\frac{29}{1485}\sqrt{483}e^{14} + \frac{232}{495}e^{23} + \frac{29}{1485}\sqrt{134}e^{56}$	$(\frac{58}{1485}, -\frac{377}{1485}, \frac{58}{165}, \frac{29}{495}, \frac{493}{1485}, -\frac{116}{495}, -\frac{29}{135}, \frac{116}{297}, \frac{29}{297})$ $+\frac{29}{1485}\sqrt{1478}e^3 \otimes e_7 + \frac{29}{495}\sqrt{129}e^5 \otimes e_6$	{1236, 1578}
93:56	$0, 0, 0, 0, 0, 0, \frac{12}{43}\sqrt{3}e^{12}, \frac{2}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{69}e^{45},$ $\frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{78}e^{25} + \frac{12}{43}\sqrt{3}e^{36}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{6}{43}\sqrt{13}e^6 \otimes e_7$	{124569, 134789, 2478, 3456}
93:56	$0, 0, 0, 0, 0, 0, \frac{4}{341}\sqrt{705}e^{12}, \frac{4}{341}\sqrt{390}e^{13} + \frac{4}{341}\sqrt{471}e^{45},$ $\frac{8}{341}\sqrt{78}e^{14} + \frac{4}{341}\sqrt{390}e^{25} + \frac{4}{341}\sqrt{627}e^{36}$	$(\frac{28}{341}, \frac{2}{341}, -\frac{50}{341}, -\frac{24}{341}, \frac{2}{341}, \frac{54}{341}, \frac{30}{341}, -\frac{2}{341}, \frac{4}{341})$ $+\frac{12}{341}\sqrt{26}e^2 \otimes e_8 + \frac{12}{341}\sqrt{78}e^6 \otimes e_7$	{124569, 134789}
93:56	$0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{849}e^{12}, \frac{4}{275}\sqrt{39}e^{13} + \frac{6}{275}\sqrt{29}e^{45},$ $\frac{1}{275}\sqrt{39}e^{14} + \frac{3}{275}\sqrt{91}e^{25} + \frac{2}{275}\sqrt{183}e^{36}$	$(-\frac{19}{550}, \frac{3}{50}, \frac{7}{550}, \frac{2}{55}, -\frac{16}{275}, -\frac{3}{275}, \frac{7}{275}, -\frac{6}{275}, \frac{1}{550})$ $+\frac{3}{275}\sqrt{65}e^6 \otimes e_8 + \frac{2}{275}\sqrt{26}e^4 \otimes e_7$	{124569, 3456}
93:56	$0, 0, 0, 0, 0, 0, \frac{12}{701}\sqrt{57}e^{12}, \frac{360}{701}e^{13} + \frac{12}{701}\sqrt{57}e^{45},$ $\frac{96}{701}\sqrt{6}e^{14} + \frac{12}{701}\sqrt{642}e^{25} + \frac{12}{701}\sqrt{327}e^{36}$	$(-\frac{132}{701}, \frac{210}{701}, \frac{126}{701}, \frac{168}{701}, -\frac{174}{701}, -\frac{90}{701}, \frac{78}{701}, -\frac{6}{701}, \frac{36}{701})$ $+\frac{288}{701}\sqrt{2}e^2 \otimes e_8 + \frac{36}{701}\sqrt{86}e^3 \otimes e_6$	{24567, 348}
93:56	$0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{165}e^{12}, \frac{1}{23}\sqrt{195}e^{13} + \frac{1}{23}\sqrt{165}e^{45},$ $\frac{1}{23}\sqrt{195}e^{14} + \frac{1}{23}\sqrt{195}e^{25} + \frac{1}{23}\sqrt{30}e^{36}$	$(-\frac{2}{23}, \frac{11}{23}, -\frac{2}{23}, \frac{9}{46}, -\frac{17}{46}, \frac{9}{46}, \frac{9}{23}, -\frac{4}{23}, \frac{5}{46})$ $+\frac{3}{23}\sqrt{65}e^2 \otimes e_8$	{24567, 279, 348, 35689}
93:56	$0, 0, 0, 0, 0, 0, \frac{12}{389}\sqrt{345}e^{12}, \frac{72}{389}e^{13} + \frac{12}{389}\sqrt{345}e^{45},$ $\frac{48}{389}\sqrt{15}e^{14} + \frac{12}{389}\sqrt{102}e^{25} + \frac{12}{389}\sqrt{105}e^{36}$	$(\frac{24}{389}, -\frac{102}{389}, \frac{126}{389}, \frac{12}{389}, \frac{138}{389}, -\frac{90}{389}, -\frac{78}{389}, \frac{150}{389}, \frac{36}{389})$ $+\frac{144}{389}\sqrt{5}e^5 \otimes e_7 + \frac{36}{389}\sqrt{34}e^3 \otimes e_6$	{2379, 5689}
93:56	$0, 0, 0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{1}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{69}e^{45},$ $\frac{2}{43}\sqrt{39}e^{14} + \frac{1}{43}\sqrt{78}e^{25} + \frac{3}{43}\sqrt{22}e^{36}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{3}{43}\sqrt{26}e^5 \otimes e_7 - \frac{3}{43}\sqrt{26}e^6 \otimes e_8$	{124569, 134789, 2478, 3456}
93:56	$0, 0, 0, 0, 0, 0, \frac{3}{43}\sqrt{22}e^{12}, \frac{1}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{69}e^{45},$ $\frac{2}{43}\sqrt{39}e^{14} + \frac{1}{43}\sqrt{78}e^{25} + \frac{3}{43}\sqrt{22}e^{36}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{3}{43}\sqrt{26}e^5 \otimes e_7 + \frac{3}{43}\sqrt{26}e^6 \otimes e_8$	{124569, 134789, 2478, 3456}
93:56	$0, 0, 0, 0, 0, 0, \frac{4}{175}\sqrt{714}e^{12}, \frac{16}{175}\sqrt{39}e^{13} + \frac{4}{175}\sqrt{714}e^{45},$ $\frac{8}{175}\sqrt{39}e^{14} + \frac{16}{175}\sqrt{39}e^{25} + \frac{4}{175}\sqrt{402}e^{36}$	$(-\frac{22}{175}, \frac{4}{175}, \frac{8}{25}, \frac{6}{35}, \frac{4}{175}, -\frac{48}{175}, -\frac{18}{175}, \frac{34}{175}, \frac{8}{175})$ $+\frac{24}{175}\sqrt{26}e^4 \otimes e_7$	{123468, 1679, 2367, 4689}
93:57	$0, 0, 0, 0, 0, 0, \frac{132}{475}e^{12}, -\frac{11}{475}\sqrt{429}e^{13} + \frac{11}{475}\sqrt{285}e^{45},$ $\frac{11}{475}\sqrt{239}e^{14} + \frac{22}{475}\sqrt{119}e^{26} + \frac{11}{475}\sqrt{239}e^{35}$	$(\frac{22}{475}, -\frac{121}{475}, \frac{22}{475}, \frac{22}{475}, \frac{22}{475}, \frac{33}{475}, \frac{99}{475}, \frac{44}{475}, \frac{44}{475})$ $+\frac{132}{475}e^3 \otimes e_7 + \frac{22}{475}\sqrt{179}e^6 \otimes e_8$	{124789, 134569, 23589, 679, 124789, 134569, 23589, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{132}{475}e^{12}, \frac{11}{475}\sqrt{429}e^{13} + \frac{11}{475}\sqrt{285}e^{45},$ $\frac{11}{475}\sqrt{239}e^{14} + \frac{22}{475}\sqrt{119}e^{26} + \frac{11}{475}\sqrt{239}e^{35}$	$(\frac{22}{475}, -\frac{121}{475}, \frac{22}{475}, \frac{22}{475}, \frac{22}{475}, \frac{33}{475}, \frac{99}{475}, \frac{44}{475}, \frac{44}{475})$ $+\frac{132}{475}e^3 \otimes e_7 + \frac{22}{475}\sqrt{179}e^6 \otimes e_8$	{124789, 134569, 23589, 679, 124789, 134569, 23589, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{1657}\sqrt{1990}e^{12}, -\frac{15}{1657}\sqrt{5}e^{13} + \frac{1}{1657}\sqrt{939}e^{45},$ $\frac{1}{1657}\sqrt{719}e^{14} + \frac{2}{1657}\sqrt{203}e^{26} + \frac{1}{1657}\sqrt{1345}e^{35}$	$(\frac{17}{1657}, -\frac{1}{1657}, -\frac{20}{1657}, -\frac{20}{1657}, \frac{17}{1657}, -\frac{2}{1657}, \frac{16}{1657}, -\frac{3}{1657}, -\frac{3}{1657})$ $+\frac{1}{1657}\sqrt{2138}e^5 \otimes e_7 + \frac{2}{1657}\sqrt{249}e^2 \otimes e_6$	{12358, 167, 2478, 3456, 12358, 167, 2478, 3456}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{1657}\sqrt{1990}e^{12}, \frac{15}{1657}\sqrt{5}e^{13} + \frac{1}{1657}\sqrt{939}e^{45},$ $\frac{1}{1657}\sqrt{719}e^{14} + \frac{2}{1657}\sqrt{203}e^{26} + \frac{1}{1657}\sqrt{1345}e^{35}$	$(\frac{17}{1657}, -\frac{1}{1657}, -\frac{20}{1657}, -\frac{20}{1657}, \frac{17}{1657}, -\frac{2}{1657}, \frac{16}{1657}, -\frac{3}{1657}, -\frac{3}{1657})$ $+\frac{1}{1657}\sqrt{2138}e^5 \otimes e_7 + \frac{2}{1657}\sqrt{249}e^2 \otimes e_6$	{12358, 167, 2478, 3456, 12358, 167, 2478, 3456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:57	$0, 0, 0, 0, 0, 0, \frac{69}{283}\sqrt{10}e^{12}, -\frac{3}{283}\sqrt{1909}e^{13} + \frac{9}{283}\sqrt{115}e^{45},$ $\frac{3}{283}\sqrt{2599}e^{14} + \frac{3}{283}\sqrt{2162}e^{26} + \frac{21}{283}\sqrt{115}e^{35}$	$(-\frac{60}{283}, -\frac{28}{283}, \frac{119}{283}, \frac{119}{283}, -\frac{60}{283}, \frac{87}{283}, -\frac{88}{283}, \frac{59}{283}, \frac{59}{283})$ $+\frac{27}{283}\sqrt{138}e^3 \otimes e_7$	{123469, 1235, 145789, 1678, 247, 25679, 34568, 389, 123469, 1235, 145789, 1678, 247, 25679, 34568, 389}
93:57	$0, 0, 0, 0, 0, 0, \frac{69}{283}\sqrt{10}e^{12}, \frac{3}{283}\sqrt{1909}e^{13} + \frac{9}{283}\sqrt{115}e^{45},$ $\frac{3}{283}\sqrt{2599}e^{14} + \frac{3}{283}\sqrt{2162}e^{26} + \frac{21}{283}\sqrt{115}e^{35}$	$(-\frac{60}{283}, -\frac{28}{283}, \frac{119}{283}, \frac{119}{283}, -\frac{60}{283}, \frac{87}{283}, -\frac{88}{283}, \frac{59}{283}, \frac{59}{283})$ $+\frac{27}{283}\sqrt{138}e^3 \otimes e_7$	{123469, 1235, 145789, 1678, 247, 25679, 34568, 389, 123469, 1235, 145789, 1678, 247, 25679, 34568, 389}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{12}, -\frac{1}{43}\sqrt{51}e^{13} + \frac{3}{43}\sqrt{23}e^{45},$ $\frac{1}{43}\sqrt{69}e^{14} + \frac{2}{43}\sqrt{30}e^{26} + \frac{1}{43}\sqrt{87}e^{35}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{1}{43}\sqrt{174}e^4 \otimes e_7 + \frac{7}{43}\sqrt{6}e^2 \otimes e_8$	{123459, 1578, 279, 348, 123459, 1578, 279, 348}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{12}, \frac{1}{43}\sqrt{51}e^{13} + \frac{3}{43}\sqrt{23}e^{45},$ $\frac{1}{43}\sqrt{69}e^{14} + \frac{2}{43}\sqrt{30}e^{26} + \frac{1}{43}\sqrt{87}e^{35}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{1}{43}\sqrt{174}e^4 \otimes e_7 + \frac{7}{43}\sqrt{6}e^2 \otimes e_8$	{123459, 1578, 279, 348, 123459, 1578, 279, 348}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{1518}e^{12}, -\frac{1}{75}\sqrt{69}e^{13} + \frac{1}{75}\sqrt{115}e^{45},$ $\frac{1}{15}\sqrt{23}e^{14} + \frac{1}{75}\sqrt{598}e^{26} + \frac{7}{75}\sqrt{23}e^{35}$	$(-\frac{16}{75}, \frac{14}{75}, \frac{7}{25}, \frac{7}{25}, -\frac{16}{75}, -\frac{3}{25}, -\frac{2}{75}, \frac{1}{15}, \frac{1}{15})$ $+\frac{1}{75}\sqrt{1886}e^3 \otimes e_7 + \frac{2}{75}\sqrt{322}e^2 \otimes e_6$	{1235, 1678, 247, 34568, 1235, 1678, 247, 34568}
93:57	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{1518}e^{12}, \frac{1}{75}\sqrt{69}e^{13} + \frac{1}{75}\sqrt{115}e^{45},$ $\frac{1}{15}\sqrt{23}e^{14} + \frac{1}{75}\sqrt{598}e^{26} + \frac{7}{75}\sqrt{23}e^{35}$	$(-\frac{16}{75}, \frac{14}{75}, \frac{7}{25}, \frac{7}{25}, -\frac{16}{75}, -\frac{3}{25}, -\frac{2}{75}, \frac{1}{15}, \frac{1}{15})$ $+\frac{1}{75}\sqrt{1886}e^3 \otimes e_7 + \frac{2}{75}\sqrt{322}e^2 \otimes e_6$	{1235, 1678, 247, 34568, 1235, 1678, 247, 34568}
93:57	$0, 0, 0, 0, 0, 0, \frac{20}{91}\sqrt{3}e^{12}, -\frac{5}{91}\sqrt{93}e^{13} + \frac{5}{91}\sqrt{69}e^{45},$ $\frac{5}{91}\sqrt{47}e^{14} + \frac{10}{91}\sqrt{29}e^{26} + \frac{5}{91}\sqrt{71}e^{35}$	$(\frac{10}{91}, -\frac{25}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+\frac{10}{91}\sqrt{41}e^6 \otimes e_8$	{12367, 124789, 134569, 158, 23589, 2456, 3478, 679, 12367, 124789, 134569, 158, 23589, 2456, 3478, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{20}{91}\sqrt{3}e^{12}, \frac{5}{91}\sqrt{93}e^{13} + \frac{5}{91}\sqrt{69}e^{45},$ $\frac{5}{91}\sqrt{47}e^{14} + \frac{10}{91}\sqrt{29}e^{26} + \frac{5}{91}\sqrt{71}e^{35}$	$(\frac{10}{91}, -\frac{25}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+\frac{10}{91}\sqrt{41}e^6 \otimes e_8$	{12367, 124789, 134569, 158, 23589, 2456, 3478, 679, 12367, 124789, 134569, 158, 23589, 2456, 3478, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{132}{475}e^{12}, -\frac{11}{475}\sqrt{357}e^{13} + \frac{11}{475}\sqrt{357}e^{45},$ $\frac{11}{475}\sqrt{167}e^{14} + \frac{22}{475}\sqrt{119}e^{26} + \frac{11}{475}\sqrt{311}e^{35}$	$(\frac{22}{475}, -\frac{121}{475}, \frac{22}{475}, \frac{22}{475}, \frac{22}{475}, \frac{33}{95}, -\frac{99}{475}, \frac{44}{475}, \frac{44}{475})$ $+\frac{132}{475}e^4 \otimes e_7 + \frac{22}{475}\sqrt{179}e^6 \otimes e_8$	{12367, 134569, 2456, 679, 12367, 134569, 2456, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{132}{475}e^{12}, \frac{11}{475}\sqrt{357}e^{13} + \frac{11}{475}\sqrt{357}e^{45},$ $\frac{11}{475}\sqrt{167}e^{14} + \frac{22}{475}\sqrt{119}e^{26} + \frac{11}{475}\sqrt{311}e^{35}$	$(\frac{22}{475}, -\frac{121}{475}, \frac{22}{475}, \frac{22}{475}, \frac{22}{475}, \frac{33}{95}, -\frac{99}{475}, \frac{44}{475}, \frac{44}{475})$ $+\frac{132}{475}e^4 \otimes e_7 + \frac{22}{475}\sqrt{179}e^6 \otimes e_8$	{12367, 134569, 2456, 679, 12367, 134569, 2456, 679}
93:57	$0, 0, 0, 0, 0, 0, \frac{12}{569}\sqrt{2415}e^{12}, -\frac{6}{569}\sqrt{2990}e^{13} + \frac{24}{569}\sqrt{115}e^{45},$ $\frac{2}{569}\sqrt{16215}e^{14} + \frac{2}{569}\sqrt{21390}e^{26} + \frac{2}{569}\sqrt{27255}e^{35}$	$(-\frac{29}{569}, \frac{379}{569}, \frac{97}{569}, \frac{97}{569}, -\frac{29}{569}, -\frac{311}{569}, \frac{350}{569}, \frac{68}{569}, \frac{68}{569})$ $+\frac{6}{569}\sqrt{18055}e^2 \otimes e_6$	{12, 12358, 135678, 167, 23457, 2478, 3456, 468, 12, 12358, 135678, 167, 23457, 2478, 3456, 468}
93:57	$0, 0, 0, 0, 0, 0, \frac{12}{569}\sqrt{2415}e^{12}, \frac{6}{569}\sqrt{2990}e^{13} + \frac{24}{569}\sqrt{115}e^{45},$ $\frac{2}{569}\sqrt{16215}e^{14} + \frac{2}{569}\sqrt{21390}e^{26} + \frac{2}{569}\sqrt{27255}e^{35}$	$(-\frac{29}{569}, \frac{379}{569}, \frac{97}{569}, \frac{97}{569}, -\frac{29}{569}, -\frac{311}{569}, \frac{350}{569}, \frac{68}{569}, \frac{68}{569})$ $+\frac{6}{569}\sqrt{18055}e^2 \otimes e_6$	{12, 12358, 135678, 167, 23457, 2478, 3456, 468, 12, 12358, 135678, 167, 23457, 2478, 3456, 468}
93:57	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{174}e^{12}, -\frac{1}{811}\sqrt{91}e^{13} + \frac{3}{811}\sqrt{73}e^{45},$ $\frac{1}{811}\sqrt{503}e^{14} + \frac{8}{811}\sqrt{2}e^{26} + \frac{7}{811}\sqrt{5}e^{35}$	$(\frac{12}{811}, -\frac{1}{811}, -\frac{14}{811}, -\frac{14}{811}, \frac{12}{811}, -\frac{1}{811}, \frac{11}{811}, -\frac{2}{811}, -\frac{2}{811})$ $+\frac{20}{811}\sqrt{2}e^5 \otimes e_7 + \frac{2}{811}\sqrt{174}e^2 \otimes e_8$	{12459, 1346789, 2379, 5689, 12459, 1346789, 2379, 5689}
93:57	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{174}e^{12}, \frac{1}{811}\sqrt{91}e^{13} + \frac{3}{811}\sqrt{73}e^{45},$ $\frac{1}{811}\sqrt{503}e^{14} + \frac{8}{811}\sqrt{2}e^{26} + \frac{7}{811}\sqrt{5}e^{35}$	$(\frac{12}{811}, -\frac{1}{811}, -\frac{14}{811}, -\frac{14}{811}, \frac{12}{811}, -\frac{1}{811}, \frac{11}{811}, -\frac{2}{811}, -\frac{2}{811})$ $+\frac{20}{811}\sqrt{2}e^5 \otimes e_7 + \frac{2}{811}\sqrt{174}e^2 \otimes e_8$	{12459, 1346789, 2379, 5689, 12459, 1346789, 2379, 5689}
93:57	$0, 0, 0, 0, 0, 0, \frac{6}{289}\sqrt{286}e^{12}, -\frac{3}{289}\sqrt{2101}e^{13} + \frac{27}{289}\sqrt{33}e^{45},$ $\frac{3}{289}\sqrt{2167}e^{14} + \frac{12}{289}\sqrt{187}e^{26} + \frac{3}{289}\sqrt{1595}e^{35}$	$(-\frac{12}{289}, \frac{101}{289}, \frac{14}{289}, \frac{14}{289}, -\frac{12}{289}, -\frac{99}{289}, \frac{89}{289}, \frac{2}{289}, \frac{2}{289})$ $+\frac{18}{289}\sqrt{154}e^2 \otimes e_8$	{123459, 1236, 146789, 1578, 24567, 279, 348, 35689, 123459, 1236, 146789, 1578, 24567, 279, 348, 35689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:57	$0, 0, 0, 0, 0, \frac{6}{289}\sqrt{286}e^{12}, \frac{3}{289}\sqrt{2101}e^{13} + \frac{27}{289}\sqrt{33}e^{45},$ $\frac{3}{289}\sqrt{2167}e^{14} + \frac{12}{289}\sqrt{187}e^{26} + \frac{3}{289}\sqrt{1595}e^{35}$	$(-\frac{12}{289}, \frac{101}{289}, \frac{14}{289}, \frac{14}{289}, -\frac{12}{289}, -\frac{99}{289}, \frac{89}{289}, \frac{2}{289}, \frac{2}{289})$ $+\frac{18}{289}\sqrt{154}e^2 \otimes e_8$	{123459, 1236, 146789, 1578, 24567, 279, 348, 35689, 123459, 1236, 146789, 1578, 24567, 279, 348, 35689}
93:57	$0, 0, 0, 0, 0, \frac{10}{1737}\sqrt{195}e^{12}, -\frac{5}{1737}\sqrt{715}e^{13} + \frac{5}{1737}\sqrt{1105}e^{45},$ $\frac{5}{1737}\sqrt{1047}e^{14} + \frac{5}{1737}\sqrt{1466}e^{26} + \frac{5}{579}\sqrt{73}e^{35}$	$(-\frac{10}{193}, \frac{40}{1737}, \frac{35}{579}, \frac{35}{579}, -\frac{10}{193}, -\frac{25}{1737}, -\frac{50}{1737}, \frac{5}{579}, \frac{5}{579})$ $+\frac{10}{1737}\sqrt{287}e^6 \otimes e_7 + \frac{35}{1737}\sqrt{42}e^2 \otimes e_8$	{1236, 1578, 279, 35689, 1236, 1578, 279, 35689}
93:57	$0, 0, 0, 0, 0, \frac{10}{1737}\sqrt{195}e^{12}, \frac{5}{1737}\sqrt{715}e^{13} + \frac{5}{1737}\sqrt{1105}e^{45},$ $\frac{5}{1737}\sqrt{1047}e^{14} + \frac{5}{1737}\sqrt{1466}e^{26} + \frac{5}{579}\sqrt{73}e^{35}$	$(-\frac{10}{193}, \frac{40}{1737}, \frac{35}{579}, \frac{35}{579}, -\frac{10}{193}, -\frac{25}{1737}, -\frac{50}{1737}, \frac{5}{579}, \frac{5}{579})$ $+\frac{10}{1737}\sqrt{287}e^6 \otimes e_7 + \frac{35}{1737}\sqrt{42}e^2 \otimes e_8$	{1236, 1578, 279, 35689, 1236, 1578, 279, 35689}
93:57	$0, 0, 0, 0, 0, \frac{10}{91}\sqrt{29}e^{12}, -\frac{5}{91}\sqrt{71}e^{13} + \frac{5}{91}\sqrt{69}e^{45},$ $\frac{5}{91}\sqrt{47}e^{14} + \frac{20}{91}\sqrt{3}e^{26} + \frac{5}{91}\sqrt{93}e^{35}$	$(\frac{10}{91}, -\frac{25}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+\frac{10}{91}\sqrt{41}e^5 \otimes e_7$	{12358, 124569, 134789, 167, 23679, 2478, 3456, 589, 12358, 124569, 134789, 167, 23679, 2478, 3456, 589}
93:57	$0, 0, 0, 0, 0, \frac{10}{91}\sqrt{29}e^{12}, \frac{5}{91}\sqrt{71}e^{13} + \frac{5}{91}\sqrt{69}e^{45},$ $\frac{5}{91}\sqrt{47}e^{14} + \frac{20}{91}\sqrt{3}e^{26} + \frac{5}{91}\sqrt{93}e^{35}$	$(\frac{10}{91}, -\frac{25}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+\frac{10}{91}\sqrt{41}e^5 \otimes e_7$	{12358, 124569, 134789, 167, 23679, 2478, 3456, 589, 12358, 124569, 134789, 167, 23679, 2478, 3456, 589}
93:58	$0, 0, 0, 0, 0, \frac{3}{25}\sqrt{42}e^{12}, \frac{2}{25}\sqrt{42}e^{13} + \frac{3}{25}\sqrt{42}e^{45},$ $\frac{1}{25}\sqrt{42}e^{16} + \frac{3}{25}\sqrt{14}e^{24} + \frac{1}{25}\sqrt{42}e^{35}$	$(0, -\frac{8}{25}, \frac{9}{25}, \frac{13}{25}, -\frac{4}{25}, \frac{1}{5}, -\frac{8}{25}, \frac{9}{25}, \frac{1}{5})$ $+\frac{21}{25}\sqrt{2}e^4 \otimes e_7$	{12348, 1245, 3459, 489}
93:58	$0, 0, 0, 0, 0, \frac{25}{1249}\sqrt{130}e^{12}, \frac{50}{1249}\sqrt{13}e^{13} + \frac{25}{1249}\sqrt{130}e^{45},$ $\frac{5}{1249}\sqrt{1670}e^{16} + \frac{5}{1249}\sqrt{3110}e^{24} + \frac{5}{1249}\sqrt{1670}e^{35}$	$(-\frac{190}{1249}, \frac{70}{1249}, \frac{135}{1249}, \frac{5}{1249}, -\frac{60}{1249}, \frac{265}{1249}, -\frac{120}{1249}, -\frac{55}{1249}, \frac{75}{1249})$ $+\frac{40}{1249}\sqrt{95}e^2 \otimes e_8 + \frac{5}{1249}\sqrt{5430}e^4 \otimes e_7$	{1578, 279}
93:58	$0, 0, 0, 0, 0, \frac{36}{733}\sqrt{19}e^{12}, \frac{90}{733}\sqrt{2}e^{13} + \frac{21}{733}\sqrt{42}e^{45},$ $\frac{3}{733}\sqrt{210}e^{16} + \frac{90}{733}\sqrt{2}e^{24} + \frac{12}{733}\sqrt{114}e^{35}$	$(-\frac{66}{733}, \frac{12}{733}, \frac{51}{733}, \frac{12}{733}, -\frac{27}{733}, \frac{90}{733}, -\frac{54}{733}, -\frac{15}{733}, \frac{24}{733})$ $+\frac{3}{733}\sqrt{3390}e^5 \otimes e_7 + \frac{3}{733}\sqrt{678}e^2 \otimes e_8$	{124569, 589}
93:58	$0, 0, 0, 0, 0, \frac{38}{1025}\sqrt{47}e^{12}, \frac{19}{1025}\sqrt{47}e^{13} + \frac{38}{1025}\sqrt{197}e^{45},$ $\frac{19}{1025}\sqrt{443}e^{16} + \frac{38}{1025}e^{24} + \frac{19}{1025}\sqrt{357}e^{35}$	$(-\frac{19}{82}, \frac{19}{2050}, \frac{513}{2050}, \frac{133}{1025}, -\frac{114}{1025}, \frac{76}{205}, -\frac{228}{1025}, \frac{19}{1025}, \frac{57}{410})$ $+\frac{209}{1025}\sqrt{7}e^4 \otimes e_7 + \frac{38}{205}\sqrt{10}e^6 \otimes e_8$	{12489, 348}
93:58	$0, 0, 0, 0, 0, \frac{4}{133}\sqrt{253}e^{12}, \frac{6}{133}\sqrt{230}e^{13} + \frac{4}{133}\sqrt{253}e^{45},$ $\frac{46}{133}\sqrt{2}e^{16} + \frac{6}{133}\sqrt{230}e^{24} + \frac{46}{133}\sqrt{2}e^{35}$	$(-\frac{24}{133}, \frac{66}{133}, -\frac{2}{133}, -\frac{47}{133}, \frac{3}{19}, \frac{43}{133}, \frac{6}{19}, -\frac{26}{133}, \frac{1}{7})$ $+\frac{2}{133}\sqrt{5198}e^2 \otimes e_8$	{146789, 1578, 24567, 279}
93:58	$0, 0, 0, 0, 0, \frac{4}{613}\sqrt{2185}e^{12}, \frac{8}{613}\sqrt{430}e^{13} + \frac{72}{613}\sqrt{5}e^{45},$ $\frac{20}{613}\sqrt{2}e^{16} + \frac{8}{613}\sqrt{430}e^{24} + \frac{4}{613}\sqrt{1645}e^{35}$	$(-\frac{35}{613}, -\frac{45}{613}, \frac{63}{613}, \frac{68}{613}, -\frac{40}{613}, \frac{58}{613}, -\frac{80}{613}, \frac{28}{613}, \frac{23}{613})$ $+\frac{20}{613}\sqrt{113}e^5 \otimes e_7$	{12358, 124569, 3456, 589}
93:58	$0, 0, 0, 0, 0, \frac{1}{162}\sqrt{19430}e^{12}, \frac{1}{162}\sqrt{14790}e^{13} + \frac{1}{162}\sqrt{11455}e^{45},$ $\frac{1}{54}\sqrt{2030}e^{16} + \frac{1}{162}\sqrt{14790}e^{24} + \frac{2}{81}\sqrt{145}e^{35}$	$(-\frac{109}{324}, \frac{17}{324}, \frac{5}{12}, \frac{2}{9}, -\frac{23}{162}, \frac{11}{18}, -\frac{23}{81}, \frac{13}{162}, \frac{89}{324})$ $+\frac{5}{162}\sqrt{1595}e^6 \otimes e_7$	{123568, 126, 369, 5689}
93:58	$0, 0, 0, 0, 0, \frac{47}{5205}\sqrt{3394}e^{12}, \frac{94}{5205}\sqrt{127}e^{13} + \frac{47}{5205}\sqrt{1730}e^{45},$ $\frac{141}{1735}\sqrt{14}e^{16} + \frac{47}{5205}\sqrt{854}e^{24} + \frac{47}{5205}\sqrt{302}e^{35}$	$(\frac{1222}{5205}, -\frac{1598}{5205}, \frac{141}{1735}, \frac{611}{1735}, -\frac{188}{5205}, -\frac{329}{1735}, -\frac{376}{5205}, \frac{329}{1041}, \frac{47}{1041})$ $+\frac{376}{5205}\sqrt{65}e^1 \otimes e_6 + \frac{47}{5205}\sqrt{5198}e^4 \otimes e_7$	{137, 1578}
93:58	$0, 0, 0, 0, 0, \frac{28}{415}\sqrt{30}e^{12}, \frac{7}{1245}\sqrt{3210}e^{13} + \frac{7}{1245}\sqrt{1630}e^{45},$ $\frac{7}{1245}\sqrt{3070}e^{16} + \frac{7}{249}\sqrt{26}e^{24} + \frac{56}{249}\sqrt{2}e^{35}$	$(\frac{28}{249}, -\frac{56}{249}, \frac{7}{83}, \frac{21}{83}, -\frac{14}{249}, -\frac{7}{83}, -\frac{28}{249}, \frac{49}{249}, \frac{7}{249})$ $+\frac{7}{1245}\sqrt{4990}e^1 \otimes e_6 + \frac{7}{1245}\sqrt{6590}e^3 \otimes e_7$	{1235, 34568}
93:58	$0, 0, 0, 0, 0, \frac{8}{281}\sqrt{157}e^{12}, \frac{8}{281}\sqrt{155}e^{13} + \frac{16}{281}e^{45},$ $\frac{8}{281}\sqrt{134}e^{16} + \frac{8}{281}\sqrt{70}e^{24} + \frac{8}{281}\sqrt{70}e^{35}$	$(-\frac{64}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{12}{281}, -\frac{12}{281}, \frac{92}{281}, -\frac{24}{281}, -\frac{24}{281}, \frac{28}{281})$ $-\frac{8}{281}\sqrt{255}e^3 \otimes e_7 + \frac{8}{281}\sqrt{257}e^2 \otimes e_8$	{12345, 12369, 3489, 3568}
93:58	$0, 0, 0, 0, 0, \frac{8}{281}\sqrt{157}e^{12}, \frac{8}{281}\sqrt{155}e^{13} + \frac{16}{281}e^{45},$ $\frac{8}{281}\sqrt{134}e^{16} + \frac{8}{281}\sqrt{70}e^{24} + \frac{8}{281}\sqrt{70}e^{35}$	$(-\frac{64}{281}, \frac{40}{281}, \frac{40}{281}, -\frac{12}{281}, -\frac{12}{281}, \frac{92}{281}, -\frac{24}{281}, -\frac{24}{281}, \frac{28}{281})$ $+\frac{8}{281}\sqrt{255}e^3 \otimes e_7 + \frac{8}{281}\sqrt{257}e^2 \otimes e_8$	{12345, 12369, 3489, 3568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:58	$0, 0, 0, 0, 0, 0, \frac{22}{3181}\sqrt{1045}e^{12}, \frac{33}{3181}\sqrt{314}e^{13} + \frac{11}{3181}\sqrt{2838}e^{45},$ $\frac{22}{3181}\sqrt{65}e^{16} + \frac{22}{3181}\sqrt{773}e^{24} + \frac{22}{3181}\sqrt{742}e^{35}$	$(\frac{77}{3181}, -\frac{319}{3181}, \frac{154}{3181}, \frac{352}{3181}, -\frac{121}{3181}, -\frac{44}{3181}, -\frac{242}{3181}, \frac{231}{3181}, \frac{33}{3181})$ $+ \frac{11}{3181}\sqrt{5114}e^5 \otimes e_7 + \frac{11}{3181}\sqrt{798}e^1 \otimes e_6$	{12358, 3456}
93:58	$0, 0, 0, 0, 0, 0, \frac{37}{6101}\sqrt{2542}e^{12}, \frac{74}{6101}\sqrt{1065}e^{13} + \frac{37}{6101}\sqrt{634}e^{45},$ $\frac{37}{6101}\sqrt{2354}e^{16} + \frac{37}{6101}\sqrt{2670}e^{24} + \frac{370}{6101}\sqrt{14}e^{35}$	$(\frac{666}{6101}, \frac{1110}{6101}, -\frac{925}{6101}, -\frac{1147}{6101}, \frac{888}{6101}, -\frac{703}{6101}, \frac{1776}{6101}, -\frac{259}{6101}, -\frac{37}{6101})$ $+ \frac{111}{6101}\sqrt{530}e^1 \otimes e_6 + \frac{481}{6101}\sqrt{38}e^2 \otimes e_8$	{1578, 24567}
93:58	$0, 0, 0, 0, 0, 0, \frac{264}{749}e^{12}, \frac{11}{749}\sqrt{858}e^{13} + \frac{264}{749}e^{45},$ $\frac{88}{749}\sqrt{6}e^{16} + \frac{11}{749}\sqrt{474}e^{24} + \frac{88}{749}\sqrt{6}e^{35}$	$(-\frac{220}{749}, \frac{66}{749}, \frac{209}{749}, \frac{66}{749}, -\frac{11}{107}, \frac{352}{749}, \frac{22}{107}, -\frac{11}{749}, \frac{132}{749})$ $+ \frac{33}{749}\sqrt{222}e^3 \otimes e_7 + \frac{33}{749}\sqrt{222}e^6 \otimes e_8$	{15789, 245679}
93:58	$0, 0, 0, 0, 0, 0, \frac{12}{1931}\sqrt{4715}e^{12}, \frac{4}{1931}\sqrt{62445}e^{13} + \frac{6}{1931}\sqrt{57730}e^{45},$ $\frac{10}{1931}\sqrt{23046}e^{16} + \frac{2}{1931}\sqrt{133170}e^{24} + \frac{2}{1931}\sqrt{342930}e^{35}$	$(-\frac{685}{1931}, \frac{705}{1931}, \frac{401}{1931}, -\frac{294}{1931}, \frac{10}{1931}, \frac{1096}{1931}, \frac{20}{1931}, -\frac{284}{1931}, \frac{411}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^6 \otimes e_8$	{12367, 124789, 3478, 679}
93:58	$0, 0, 0, 0, 0, 0, \frac{5}{91}\sqrt{78}e^{12}, \frac{1}{91}\sqrt{390}e^{13} + \frac{6}{91}\sqrt{39}e^{45},$ $\frac{6}{91}\sqrt{13}e^{16} + \frac{1}{91}\sqrt{390}e^{24} + \frac{6}{91}\sqrt{39}e^{35}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, 0, \frac{3}{7}, 0, -\frac{1}{7}, \frac{1}{7})$ $+ \frac{1}{91}\sqrt{2730}e^6 \otimes e_7 + \frac{2}{91}\sqrt{897}e^2 \otimes e_8$	{14789, 2457}
93:58	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{535}e^{12}, \frac{2}{77}\sqrt{105}e^{13} + \frac{9}{77}\sqrt{5}e^{45},$ $\frac{1}{77}\sqrt{5}e^{16} + \frac{5}{77}\sqrt{17}e^{24} + \frac{20}{77}e^{35}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{15}e^6 \otimes e_8 + \frac{1}{77}\sqrt{695}e^5 \otimes e_7$	{12358, 124569, 3456, 589}
93:58	$0, 0, 0, 0, 0, 0, \frac{1}{77}\sqrt{535}e^{12}, \frac{2}{77}\sqrt{105}e^{13} + \frac{9}{77}\sqrt{5}e^{45},$ $\frac{1}{77}\sqrt{5}e^{16} + \frac{5}{77}\sqrt{17}e^{24} + \frac{20}{77}e^{35}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, \frac{8}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $- \frac{1}{77}\sqrt{15}e^6 \otimes e_8 + \frac{1}{77}\sqrt{695}e^5 \otimes e_7$	{12358, 124569, 3456, 589}
93:58	$0, 0, 0, 0, 0, 0, \frac{6}{1931}\sqrt{57730}e^{12}, \frac{4}{1931}\sqrt{62445}e^{13} + \frac{12}{1931}\sqrt{4715}e^{45},$ $\frac{2}{1931}\sqrt{342930}e^{16} + \frac{2}{1931}\sqrt{133170}e^{24} + \frac{10}{1931}\sqrt{23046}e^{35}$	$(-\frac{352}{1931}, -\frac{294}{1931}, \frac{734}{1931}, \frac{705}{1931}, -\frac{323}{1931}, \frac{763}{1931}, -\frac{646}{1931}, \frac{382}{1931}, \frac{411}{1931})$ $+ \frac{30}{1931}\sqrt{5106}e^3 \otimes e_7$	{123469, 1235, 34568, 389}
93:58	$0, 0, 0, 0, 0, 0, \frac{24}{1961}\sqrt{3905}e^{12}, \frac{12}{1961}\sqrt{18105}e^{13} + \frac{6}{1961}\sqrt{14910}e^{45},$ $\frac{2}{1961}\sqrt{321630}e^{16} + \frac{2}{1961}\sqrt{71355}e^{24} + \frac{10}{1961}\sqrt{1065}e^{35}$	$(\frac{1123}{1961}, -\frac{269}{1961}, -\frac{311}{1961}, \frac{385}{1961}, \frac{427}{1961}, -\frac{19}{37}, \frac{854}{1961}, \frac{812}{1961}, \frac{116}{1961})$ $+ \frac{30}{1961}\sqrt{7739}e^1 \otimes e_6$	{1357, 178, 2345678, 2467}
93:59	$0, 0, 0, 0, 0, 0, \frac{9}{137}\sqrt{82}e^{13} + \frac{18}{137}\sqrt{13}e^{24}, \frac{9}{137}\sqrt{82}e^{12} + \frac{18}{137}\sqrt{67}e^{35},$ $\frac{63}{137}\sqrt{2}e^{14} + \frac{18}{137}\sqrt{23}e^{56}$	$(\frac{39}{137}, \frac{30}{137}, -\frac{24}{137}, -\frac{15}{137}, \frac{93}{137}, -\frac{69}{137}, \frac{15}{137}, \frac{69}{137}, \frac{24}{137})$ $+ \frac{9}{137}\sqrt{458}e^5 \otimes e_6$	{12458, 13457, 267, 368}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{437}\sqrt{16109}e^{13} + \frac{6}{437}\sqrt{1335}e^{24},$ $\frac{4}{437}\sqrt{267}e^{12} + \frac{2}{437}\sqrt{21894}e^{35}, \frac{2}{437}\sqrt{17889}e^{14} + \frac{4}{437}\sqrt{2937}e^{56}$	$(\frac{1}{23}, -\frac{96}{437}, -\frac{14}{437}, \frac{101}{437}, -\frac{63}{437}, \frac{183}{437}, \frac{5}{437}, -\frac{77}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{34354}e^4 \otimes e_8$	{1246, 15689, 2578, 479}
93:59	$0, 0, 0, 0, 0, 0, \frac{42}{1321}\sqrt{62}e^{13} + \frac{84}{1321}\sqrt{7}e^{24},$ $\frac{21}{1321}\sqrt{186}e^{12} + \frac{21}{1321}\sqrt{521}e^{35}, \frac{21}{1321}\sqrt{186}e^{14} + \frac{21}{1321}\sqrt{645}e^{56}$	$(-\frac{168}{1321}, \frac{105}{1321}, \frac{378}{1321}, \frac{105}{1321}, -\frac{441}{1321}, \frac{378}{1321}, \frac{210}{1321}, -\frac{63}{1321}, -\frac{63}{1321})$ $- \frac{21}{1321}\sqrt{1117}e^6 \otimes e_8 + \frac{21}{1321}\sqrt{1241}e^3 \otimes e_9$	{1348, 15789, 3567, 469}
93:59	$0, 0, 0, 0, 0, 0, \frac{42}{1321}\sqrt{62}e^{13} + \frac{84}{1321}\sqrt{7}e^{24},$ $\frac{21}{1321}\sqrt{186}e^{12} + \frac{21}{1321}\sqrt{521}e^{35}, \frac{21}{1321}\sqrt{186}e^{14} + \frac{21}{1321}\sqrt{645}e^{56}$	$(-\frac{168}{1321}, \frac{105}{1321}, \frac{378}{1321}, \frac{105}{1321}, -\frac{441}{1321}, \frac{378}{1321}, \frac{210}{1321}, -\frac{63}{1321}, -\frac{63}{1321})$ $+ \frac{21}{1321}\sqrt{1117}e^6 \otimes e_8 + \frac{21}{1321}\sqrt{1241}e^3 \otimes e_9$	{1348, 15789, 3567, 469}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{2305}\sqrt{399063}e^{13} + \frac{26}{2305}\sqrt{3065}e^{24},$ $\frac{4}{2305}\sqrt{50879}e^{12} + \frac{4}{2305}\sqrt{59461}e^{35}, \frac{6}{2305}\sqrt{37393}e^{14} + \frac{2}{2305}\sqrt{503886}e^{56}$	$(\frac{569}{2305}, -\frac{174}{2305}, -\frac{140}{461}, \frac{43}{2305}, \frac{219}{461}, -\frac{483}{2305}, -\frac{131}{2305}, \frac{79}{461}, \frac{612}{2305})$ $+ \frac{2}{2305}\sqrt{1205158}e^5 \otimes e_7$	{1356, 14679, 3478, 589}
93:59	$0, 0, 0, 0, 0, 0, \frac{11}{1541}\sqrt{822}e^{13} + \frac{11}{1541}\sqrt{527}e^{24},$ $\frac{11}{1541}\sqrt{581}e^{12} + \frac{11}{1541}\sqrt{679}e^{35}, \frac{33}{1541}e^{14} + \frac{22}{1541}\sqrt{201}e^{56}$	$(\frac{22}{1541}, \frac{165}{1541}, \frac{22}{1541}, -\frac{121}{1541}, \frac{165}{1541}, -\frac{264}{1541}, \frac{44}{1541}, \frac{187}{1541}, -\frac{99}{1541})$ $- \frac{11}{1541}\sqrt{1537}e^5 \otimes e_7 + \frac{33}{1541}\sqrt{141}e^3 \otimes e_9$	{1356, 14679, 3478, 589}
93:59	$0, 0, 0, 0, 0, 0, \frac{11}{1541}\sqrt{822}e^{13} + \frac{11}{1541}\sqrt{527}e^{24},$ $\frac{11}{1541}\sqrt{581}e^{12} + \frac{11}{1541}\sqrt{679}e^{35}, \frac{33}{1541}e^{14} + \frac{22}{1541}\sqrt{201}e^{56}$	$(\frac{22}{1541}, \frac{165}{1541}, \frac{22}{1541}, -\frac{121}{1541}, \frac{165}{1541}, -\frac{264}{1541}, \frac{44}{1541}, \frac{187}{1541}, -\frac{99}{1541})$ $+ \frac{11}{1541}\sqrt{1537}e^5 \otimes e_7 + \frac{33}{1541}\sqrt{141}e^3 \otimes e_9$	{1356, 14679, 3478, 589}
93:59	$0, 0, 0, 0, 0, 0, \frac{30}{2497}\sqrt{257}e^{13} + \frac{30}{2497}\sqrt{791}e^{24}, \frac{360}{2497}e^{12} + \frac{30}{2497}\sqrt{62}e^{35},$ $\frac{30}{2497}\sqrt{277}e^{14} + \frac{60}{2497}\sqrt{226}e^{56}$	$(\frac{135}{2497}, \frac{30}{2497}, -\frac{60}{2497}, -\frac{255}{2497}, \frac{525}{2497}, -\frac{645}{2497}, \frac{75}{2497}, \frac{465}{2497}, -\frac{120}{2497})$ $+ \frac{120}{2497}\sqrt{77}e^5 \otimes e_7 + \frac{30}{2497}\sqrt{1006}e^2 \otimes e_9$	{127, 24568}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{13}\sqrt{5}e^{13} + \frac{6}{169}\sqrt{39}e^{24}, \frac{4}{169}\sqrt{39}e^{12} + \frac{8}{169}\sqrt{13}e^{35},$ $\frac{10}{169}\sqrt{13}e^{14} + \frac{2}{169}\sqrt{910}e^{56}$	$(-\frac{1}{13}, 0, \frac{2}{13}, \frac{1}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{1}{13}, -\frac{1}{13}, 0)$ $+ \frac{2}{169}\sqrt{1222}e^6 \otimes e_7 + \frac{4}{169}\sqrt{195}e^3 \otimes e_9$	{14579, 689}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{2289}\sqrt{109045}e^{13} + \frac{2}{2289}\sqrt{10615}e^{24},$ $\frac{2}{763}\sqrt{90710}e^{12} + \frac{4}{2289}\sqrt{59830}e^{35}, \frac{10}{2289}\sqrt{15247}e^{14} + \frac{4}{2289}\sqrt{195895}e^{56}$	$(\frac{11}{763}, -\frac{162}{763}, \frac{236}{2289}, \frac{755}{2289}, -\frac{689}{2289}, \frac{211}{327}, \frac{269}{2289}, -\frac{151}{763}, \frac{788}{2289})$ $+ \frac{2}{2289}\sqrt{1850870}e^6 \otimes e_8$	{123567, 12469, 2348, 25789}
93:59	$0, 0, 0, 0, 0, 0, \frac{3}{202}\sqrt{287}e^{13} + \frac{3}{101}\sqrt{47}e^{24}, \frac{3}{202}\sqrt{41}e^{12} + \frac{3}{202}\sqrt{458}e^{35},$ $\frac{3}{202}\sqrt{307}e^{14} + \frac{3}{202}\sqrt{238}e^{56}$	$(\frac{9}{101}, -\frac{12}{101}, -\frac{15}{101}, \frac{6}{101}, \frac{12}{101}, \frac{3}{101}, -\frac{6}{101}, -\frac{3}{101}, \frac{15}{101})$ $+ \frac{3}{101}\sqrt{123}e^4 \otimes e_8 + \frac{3}{202}\sqrt{265}e^5 \otimes e_6$	{13457, 368}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{2321}\sqrt{208335}e^{13} + \frac{18}{2321}\sqrt{5719}e^{24},$ $\frac{24}{2321}\sqrt{4085}e^{12} + \frac{6}{2321}\sqrt{27778}e^{35}, \frac{2}{2321}\sqrt{126635}e^{14} + \frac{4}{2321}\sqrt{168302}e^{56}$	$(-\frac{249}{2321}, \frac{94}{211}, \frac{932}{2321}, -\frac{351}{2321}, -\frac{147}{2321}, -\frac{453}{2321}, \frac{683}{2321}, \frac{785}{2321}, -\frac{600}{2321})$ $+ \frac{10}{2321}\sqrt{63726}e^2 \otimes e_9$	{12456, 1689, 278, 4579}
93:59	$0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{377}e^{13} + \frac{6}{169}\sqrt{39}e^{24}, \frac{6}{169}\sqrt{39}e^{12} + \frac{2}{13}\sqrt{6}e^{35},$ $\frac{2}{169}\sqrt{897}e^{14} + \frac{4}{169}\sqrt{78}e^{56}$	$(-\frac{1}{13}, 0, \frac{2}{13}, \frac{1}{13}, -\frac{3}{13}, \frac{3}{13}, \frac{1}{13}, -\frac{1}{13}, 0)$ $+ \frac{2}{169}\sqrt{1222}e^4 \otimes e_8 + \frac{4}{169}\sqrt{195}e^3 \otimes e_9$	{13457, 368}
93:59	$0, 0, 0, 0, 0, 0, \frac{34}{3345}\sqrt{331}e^{13} + \frac{34}{3345}\sqrt{415}e^{24},$ $\frac{68}{1115}\sqrt{33}e^{12} + \frac{34}{3345}\sqrt{110}e^{35}, \frac{34}{3345}\sqrt{193}e^{14} + \frac{272}{3345}\sqrt{19}e^{56}$	$(-\frac{119}{1115}, \frac{102}{1115}, \frac{748}{3345}, \frac{17}{669}, -\frac{799}{3345}, \frac{527}{3345}, \frac{391}{3345}, -\frac{17}{1115}, -\frac{272}{3345})$ $+ \frac{34}{1115}\sqrt{178}e^2 \otimes e_9 + \frac{68}{3345}\sqrt{359}e^6 \otimes e_8$	{1345789, 369}
93:59	$0, 0, 0, 0, 0, 0, \frac{6}{197}\sqrt{53}e^{13} + \frac{12}{197}\sqrt{2}e^{24}, \frac{6}{197}\sqrt{157}e^{12} + \frac{6}{197}\sqrt{298}e^{35},$ $\frac{6}{197}\sqrt{203}e^{14} + \frac{6}{197}\sqrt{2}e^{56}$	$(-\frac{6}{197}, \frac{60}{197}, \frac{36}{197}, -\frac{30}{197}, \frac{18}{197}, -\frac{54}{197}, \frac{30}{197}, \frac{54}{197}, -\frac{36}{197})$ $+ \frac{12}{197}\sqrt{105}e^3 \otimes e_9 + \frac{6}{197}\sqrt{293}e^5 \otimes e_6$	{1345, 3678}
93:59	$0, 0, 0, 0, 0, 0, \frac{8}{519}\sqrt{174}e^{13} + \frac{32}{519}\sqrt{33}e^{24}, \frac{8}{519}\sqrt{87}e^{12} + \frac{8}{519}\sqrt{615}e^{35},$ $\frac{8}{173}\sqrt{26}e^{14} + \frac{8}{173}\sqrt{3}e^{56}$	$(\frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{173}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{8}{519}\sqrt{615}e^5 \otimes e_7 + \frac{8}{519}\sqrt{789}e^4 \otimes e_8$	{123789, 234569}
93:59	$0, 0, 0, 0, 0, 0, \frac{3}{68}\sqrt{74}e^{13} + \frac{3}{34}\sqrt{26}e^{24}, \frac{3}{68}\sqrt{82}e^{12} + \frac{3}{34}\sqrt{11}e^{35},$ $\frac{3}{68}\sqrt{58}e^{14} + \frac{3}{34}\sqrt{23}e^{56}$	$(0, \frac{6}{17}, \frac{3}{17}, -\frac{3}{17}, \frac{3}{17}, -\frac{6}{17}, \frac{3}{17}, \frac{6}{17}, -\frac{3}{17})$ $+ \frac{3}{34}\sqrt{78}e^2 \otimes e_9 + \frac{3}{68}\sqrt{166}e^5 \otimes e_6$	{1589, 4679}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{437}\sqrt{18245}e^{13} + \frac{6}{437}\sqrt{1335}e^{24},$ $\frac{4}{437}\sqrt{267}e^{12} + \frac{4}{437}\sqrt{3115}e^{35}, \frac{2}{437}\sqrt{16465}e^{14} + \frac{2}{437}\sqrt{22606}e^{56}$	$(\frac{1}{23}, -\frac{96}{437}, -\frac{14}{437}, \frac{101}{437}, -\frac{63}{437}, \frac{183}{437}, \frac{5}{437}, -\frac{77}{437}, \frac{120}{437})$ $+ \frac{2}{437}\sqrt{34354}e^6 \otimes e_7$	{123469, 13568, 235789, 347}
93:59	$0, 0, 0, 0, 0, 0, \frac{180}{1289}\sqrt{2}e^{13} + \frac{36}{1289}\sqrt{46}e^{24},$ $\frac{9}{1289}\sqrt{385}e^{12} + \frac{27}{1289}\sqrt{78}e^{35}, \frac{9}{1289}\sqrt{785}e^{14} + \frac{63}{1289}\sqrt{2}e^{56}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{36}{1289}, -\frac{198}{1289}, \frac{153}{1289}, \frac{72}{1289}, -\frac{45}{1289}, -\frac{45}{1289})$ $- \frac{9}{1289}\sqrt{1385}e^4 \otimes e_8 + \frac{9}{1289}\sqrt{985}e^2 \otimes e_9$	{1246, 15689, 2578, 479}
93:59	$0, 0, 0, 0, 0, 0, \frac{180}{1289}\sqrt{2}e^{13} + \frac{36}{1289}\sqrt{46}e^{24},$ $\frac{9}{1289}\sqrt{385}e^{12} + \frac{27}{1289}\sqrt{78}e^{35}, \frac{9}{1289}\sqrt{785}e^{14} + \frac{63}{1289}\sqrt{2}e^{56}$	$(-\frac{81}{1289}, \frac{36}{1289}, \frac{153}{1289}, \frac{36}{1289}, -\frac{198}{1289}, \frac{153}{1289}, \frac{72}{1289}, -\frac{45}{1289}, -\frac{45}{1289})$ $+ \frac{9}{1289}\sqrt{1385}e^4 \otimes e_8 + \frac{9}{1289}\sqrt{985}e^2 \otimes e_9$	{1246, 15689, 2578, 479}
93:59	$0, 0, 0, 0, 0, 0, \frac{2}{461}\sqrt{17997}e^{13} + \frac{2}{2305}\sqrt{110553}e^{24},$ $\frac{4}{2305}\sqrt{95127}e^{12} + \frac{6}{2305}\sqrt{59990}e^{35}, \frac{2}{2305}\sqrt{576761}e^{14} + \frac{2}{2305}\sqrt{286238}e^{56}$	$(-\frac{387}{2305}, \frac{188}{461}, \frac{230}{461}, -\frac{177}{2305}, -\frac{597}{2305}, \frac{33}{2305}, \frac{763}{2305}, \frac{553}{2305}, -\frac{564}{2305})$ $+ \frac{2}{2305}\sqrt{1660866}e^3 \otimes e_9$	{13456, 1679, 378, 4589}
93:60	$0, 0, 0, 0, 0, 0, \frac{1}{203}\sqrt{1554}e^{12} + \frac{3}{203}\sqrt{210}e^{34}, \frac{1}{203}\sqrt{2954}e^{15} + \frac{6}{203}\sqrt{70}e^{23},$ $\frac{2}{203}\sqrt{483}e^{14} + \frac{6}{29}e^{56}$	$(-\frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, 0, 0, -\frac{1}{29}, \frac{1}{29})$ $+ \frac{1}{203}\sqrt{3934}e^2 \otimes e_9 + \frac{6}{203}\sqrt{357}e^5 \otimes e_6$	{124568, 278}
93:60	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{5}e^{12} + \frac{2}{43}\sqrt{29}e^{34}, \frac{2}{43}\sqrt{39}e^{15} + \frac{2}{43}\sqrt{59}e^{23},$ $\frac{14}{43}e^{14} + \frac{2}{43}\sqrt{30}e^{56}$	$(-\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{29}e^4 \otimes e_8 + \frac{4}{43}\sqrt{22}e^2 \otimes e_9$	{278, 459}
93:60	$0, 0, 0, 0, 0, 0, \frac{8}{215}\sqrt{30}e^{12} + \frac{2}{215}\sqrt{255}e^{34}, \frac{8}{215}\sqrt{15}e^{15} + \frac{2}{215}\sqrt{1230}e^{23},$ $\frac{6}{215}\sqrt{55}e^{14} + \frac{6}{215}\sqrt{110}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{18}{215}\sqrt{15}e^6 \otimes e_8 + \frac{6}{215}\sqrt{190}e^3 \otimes e_9$	{169, 378}
93:60	$0, 0, 0, 0, 0, 0, \frac{1}{383}\sqrt{17958}e^{12} + \frac{1}{383}\sqrt{29054}e^{34},$ $\frac{4}{383}\sqrt{1387}e^{15} + \frac{1}{383}\sqrt{21170}e^{23}, \frac{8}{383}\sqrt{438}e^{14} + \frac{8}{383}\sqrt{20586}e^{56}$	$(-\frac{44}{383}, \frac{61}{383}, -\frac{15}{383}, \frac{32}{383}, \frac{90}{383}, -\frac{102}{383}, \frac{17}{383}, \frac{46}{383}, -\frac{12}{383})$ $+ \frac{4}{383}\sqrt{3139}e^5 \otimes e_7$	{1256, 146789, 247, 589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:60	$0, 0, 0, 0, 0, \frac{5}{377}\sqrt{78}e^{12} + \frac{2}{377}\sqrt{910}e^{34}, \frac{2}{377}\sqrt{5}e^{15} + \frac{1}{377}\sqrt{1846}e^{23},$ $\frac{1}{377}\sqrt{3874}e^{14} + \frac{2}{377}\sqrt{858}e^{56}$	$(-\frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, 0, 0, -\frac{1}{29}, \frac{1}{29})$ $+ \frac{2}{377}\sqrt{663}e^6 \otimes e_8 + \frac{7}{377}\sqrt{130}e^5 \otimes e_7$	{1256, 589}
93:60	$0, 0, 0, 0, 0, \frac{2}{2297}\sqrt{233967}e^{12} + \frac{2}{2297}\sqrt{497355}e^{34},$ $\frac{12}{2297}\sqrt{40629}e^{15} + \frac{2}{2297}\sqrt{400686}e^{23}, \frac{2}{2297}\sqrt{333438}e^{14} + \frac{24}{2297}\sqrt{1401}e^{56}$	$(-\frac{265}{2297}, \frac{827}{2297}, \frac{305}{2297}, \frac{257}{2297}, \frac{1397}{2297}, -\frac{1405}{2297}, \frac{562}{2297}, \frac{1132}{2297}, -\frac{8}{2297})$ $+ \frac{6}{2297}\sqrt{299347}e^5 \otimes e_6$	{123678, 168, 23458, 4578}
93:60	$0, 0, 0, 0, 0, \frac{1}{233}\sqrt{21534}e^{12} + \frac{1}{233}\sqrt{19758}e^{34},$ $\frac{4}{233}\sqrt{222}e^{15} + \frac{1}{233}\sqrt{10434}e^{23}, \frac{6}{233}\sqrt{518}e^{14} + \frac{111}{233}\sqrt{2}e^{56}$	$(\frac{32}{233}, -\frac{21}{233}, -\frac{13}{233}, \frac{24}{233}, -\frac{66}{233}, \frac{122}{233}, \frac{11}{233}, -\frac{34}{233}, \frac{56}{233})$ $+ \frac{6}{233}\sqrt{1258}e^6 \otimes e_7$	{137, 145789, 3456, 689}
93:60	$0, 0, 0, 0, 0, \frac{4}{43}\sqrt{5}e^{12} + \frac{2}{43}\sqrt{59}e^{34}, \frac{14}{43}e^{15} + \frac{2}{43}\sqrt{29}e^{23},$ $\frac{2}{43}\sqrt{39}e^{14} + \frac{2}{43}\sqrt{30}e^{56}$	$(-\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{29}e^4 \otimes e_8 + \frac{4}{43}\sqrt{22}e^5 \otimes e_7$	{247, 589}
93:60	$0, 0, 0, 0, 0, \frac{7}{3287}\sqrt{2406}e^{12} + \frac{7}{3287}\sqrt{626}e^{34}, \frac{336}{3287}e^{15} + \frac{7}{3287}\sqrt{1598}e^{23},$ $\frac{28}{3287}\sqrt{43}e^{14} + \frac{7}{3287}\sqrt{2730}e^{56}$	$(-\frac{140}{3287}, \frac{7}{173}, -\frac{231}{3287}, \frac{224}{3287}, \frac{42}{3287}, \frac{42}{3287}, -\frac{7}{3287}, -\frac{98}{3287}, \frac{84}{3287})$ $+ \frac{28}{3287}\sqrt{235}e^2 \otimes e_9 + \frac{336}{3287}e^6 \otimes e_7$	{124568, 278}
93:60	$0, 0, 0, 0, 0, \frac{5}{377}\sqrt{78}e^{12} + \frac{1}{377}\sqrt{2730}e^{34}, \frac{1}{377}\sqrt{2990}e^{15} + \frac{2}{377}\sqrt{1131}e^{23},$ $\frac{8}{377}\sqrt{39}e^{14} + \frac{2}{377}\sqrt{858}e^{56}$	$(-\frac{2}{29}, \frac{2}{29}, -\frac{3}{29}, \frac{3}{29}, \frac{1}{29}, 0, 0, -\frac{1}{29}, \frac{1}{29})$ $+ \frac{2}{377}\sqrt{663}e^6 \otimes e_8 + \frac{7}{377}\sqrt{130}e^2 \otimes e_9$	{1679, 278}
93:60	$0, 0, 0, 0, 0, \frac{20}{2441}\sqrt{2154}e^{12} + \frac{2}{2441}\sqrt{37695}e^{34},$ $\frac{2}{2441}\sqrt{506190}e^{15} + \frac{4}{2441}\sqrt{191706}e^{23}, \frac{6}{2441}\sqrt{24771}e^{14} + \frac{66}{2441}\sqrt{718}e^{56}$	$(\frac{347}{2441}, -\frac{102}{2441}, -\frac{337}{2441}, \frac{582}{2441}, -\frac{786}{2441}, \frac{1715}{2441}, \frac{245}{2441}, -\frac{439}{2441}, \frac{929}{2441})$ $+ \frac{6}{2441}\sqrt{243043}e^6 \otimes e_8$	{123567, 156, 2589, 35789}
93:60	$0, 0, 0, 0, 0, \frac{1}{6245}\sqrt{3410}e^{12} + \frac{1}{6245}\sqrt{2446}e^{34},$ $\frac{1}{6245}\sqrt{182}e^{15} + \frac{2}{6245}\sqrt{1106}e^{23}, \frac{2}{6245}\sqrt{4138}e^{14} + \frac{1}{6245}\sqrt{858}e^{56}$	$(\frac{5}{1249}, -\frac{27}{6245}, \frac{12}{6245}, -\frac{14}{6245}, -\frac{8}{1249}, \frac{51}{6245}, -\frac{2}{6245}, -\frac{3}{1249}, \frac{11}{6245})$ $+ \frac{1}{6245}\sqrt{5934}e^3 \otimes e_9 + \frac{2}{6245}\sqrt{1399}e^4 \otimes e_8$	{35678, 4679}
93:60	$0, 0, 0, 0, 0, \frac{1}{1213}\sqrt{249546}e^{12} + \frac{13}{1213}\sqrt{1254}e^{34},$ $\frac{2}{1213}\sqrt{94677}e^{15} + \frac{1}{1213}\sqrt{645810}e^{23}, \frac{6}{1213}\sqrt{13585}e^{14} + \frac{15}{1213}\sqrt{2090}e^{56}$	$(\frac{286}{1213}, -\frac{141}{1213}, \frac{529}{1213}, -\frac{384}{1213}, \frac{102}{1213}, -\frac{200}{1213}, \frac{145}{1213}, \frac{388}{1213}, -\frac{98}{1213})$ $+ \frac{6}{1213}\sqrt{36157}e^3 \otimes e_9$	{134568, 169, 378, 4579}
93:60	$0, 0, 0, 0, 0, \frac{86}{6341}\sqrt{830}e^{12} + \frac{43}{6341}\sqrt{2786}e^{34},$ $\frac{43}{6341}\sqrt{4858}e^{15} + \frac{172}{6341}\sqrt{85}e^{23}, \frac{43}{6341}\sqrt{2006}e^{14} + \frac{43}{6341}\sqrt{1938}e^{56}$	$(-\frac{1247}{6341}, \frac{1505}{6341}, -\frac{1548}{6341}, \frac{1806}{6341}, \frac{1204}{6341}, -\frac{645}{6341}, \frac{258}{6341}, -\frac{43}{6341}, \frac{559}{6341})$ $+ \frac{43}{6341}\sqrt{4278}e^5 \otimes e_6 + \frac{43}{6341}\sqrt{7354}e^4 \otimes e_8$	{258, 3578}
93:60	$0, 0, 0, 0, 0, \frac{20}{787}\sqrt{611}e^{12} + \frac{2}{787}\sqrt{47235}e^{34},$ $\frac{18}{787}\sqrt{705}e^{15} + \frac{2}{787}\sqrt{47235}e^{23}, \frac{18}{787}\sqrt{705}e^{14} + \frac{6}{787}\sqrt{3290}e^{56}$	$(-\frac{118}{787}, \frac{167}{787}, -\frac{294}{787}, \frac{343}{787}, -\frac{9}{787}, \frac{234}{787}, \frac{49}{787}, -\frac{127}{787}, \frac{225}{787})$ $+ \frac{2}{787}\sqrt{159565}e^4 \otimes e_8$	{2349, 258, 3578, 479}
93:60	$0, 0, 0, 0, 0, \frac{1}{383}\sqrt{17958}e^{12} + \frac{1}{383}\sqrt{21170}e^{34},$ $\frac{8}{383}\sqrt{438}e^{15} + \frac{1}{383}\sqrt{29054}e^{23}, \frac{4}{383}\sqrt{1387}e^{14} + \frac{1}{383}\sqrt{20586}e^{56}$	$(-\frac{44}{383}, \frac{61}{383}, -\frac{15}{383}, \frac{32}{383}, \frac{90}{383}, -\frac{102}{383}, \frac{17}{383}, \frac{46}{383}, -\frac{12}{383})$ $+ \frac{4}{383}\sqrt{3139}e^2 \otimes e_9$	{124568, 1679, 278, 459}
93:60	$0, 0, 0, 0, 0, \frac{51}{1991}\sqrt{86}e^{12} + \frac{17}{1991}\sqrt{1686}e^{34},$ $\frac{68}{1991}\sqrt{57}e^{15} + \frac{17}{1991}\sqrt{690}e^{23}, \frac{34}{1991}\sqrt{290}e^{14} + \frac{17}{1991}\sqrt{1410}e^{56}$	$(-\frac{68}{1991}, \frac{153}{1991}, \frac{153}{1991}, -\frac{68}{1991}, \frac{34}{181}, -\frac{510}{1991}, \frac{85}{1991}, \frac{306}{1991}, -\frac{136}{1991})$ $+ \frac{34}{1991}\sqrt{670}e^5 \otimes e_7 + \frac{68}{1991}\sqrt{57}e^3 \otimes e_9$	{146789, 589}
93:60	$0, 0, 0, 0, 0, \frac{41}{3589}\sqrt{1094}e^{12} + \frac{533}{3589}\sqrt{6}e^{34},$ $\frac{41}{3589}\sqrt{762}e^{15} + \frac{328}{3589}\sqrt{35}e^{23}, \frac{533}{3589}\sqrt{10}e^{14} + \frac{205}{3589}\sqrt{66}e^{56}$	$(\frac{533}{3589}, -\frac{123}{3589}, \frac{1312}{3589}, -\frac{902}{3589}, \frac{656}{3589}, -\frac{1025}{3589}, \frac{410}{3589}, \frac{1189}{3589}, -\frac{369}{3589})$ $+ \frac{410}{3589}\sqrt{13}e^5 \otimes e_6 + \frac{41}{3589}\sqrt{4978}e^3 \otimes e_9$	{169, 4579}
93:60	$0, 0, 0, 0, 0, \frac{100}{313}e^{12} + \frac{25}{313}\sqrt{42}e^{34}, \frac{20}{313}\sqrt{15}e^{15} + \frac{15}{313}\sqrt{10}e^{23},$ $\frac{5}{313}\sqrt{330}e^{14} + \frac{60}{313}\sqrt{5}e^{56}$	$(\frac{5}{313}, \frac{5}{313}, -\frac{60}{313}, \frac{70}{313}, -\frac{60}{313}, \frac{135}{313}, \frac{10}{313}, -\frac{55}{313}, \frac{75}{313})$ $+ \frac{10}{313}\sqrt{265}e^4 \otimes e_8 + \frac{15}{313}\sqrt{190}e^6 \otimes e_7$	{235789, 247}
93:61	$0, 0, 0, 0, 0, \frac{4}{349}\sqrt{858}e^{13} + \frac{4}{349}\sqrt{3377}e^{24},$ $\frac{12}{349}\sqrt{286}e^{12} + \frac{4}{349}\sqrt{2233}e^{35}, \frac{4}{349}\sqrt{3377}e^{16} + \frac{8}{349}\sqrt{715}e^{45}$	$(\frac{42}{349}, -\frac{36}{349}, -\frac{88}{349}, -\frac{10}{349}, \frac{94}{349}, \frac{42}{349}, -\frac{46}{349}, \frac{6}{349}, \frac{84}{349})$ $+ \frac{8}{349}\sqrt{858}e^6 \otimes e_7$	{123789, 134579, 234569, 3689}
93:61	$0, 0, 0, 0, 0, \frac{4}{373}\sqrt{2730}e^{13} + \frac{4}{373}\sqrt{3745}e^{24},$ $\frac{4}{373}\sqrt{2730}e^{12} + \frac{4}{373}\sqrt{3745}e^{35}, \frac{4}{373}\sqrt{105}e^{16} + \frac{8}{373}\sqrt{455}e^{45}$	$(\frac{58}{373}, -\frac{124}{373}, \frac{32}{373}, \frac{214}{373}, -\frac{98}{373}, \frac{58}{373}, \frac{90}{373}, -\frac{66}{373}, \frac{116}{373})$ $+ \frac{8}{373}\sqrt{2730}e^4 \otimes e_8$	{1249, 1589, 256789, 4679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:61	$0, 0, 0, 0, 0, 0, \frac{12}{341}\sqrt{26}e^{13} + \frac{4}{341}\sqrt{705}e^{24}, \frac{4}{341}\sqrt{390}e^{12} + \frac{4}{341}\sqrt{393}e^{35},$ $\frac{4}{341}\sqrt{705}e^{16} + \frac{24}{341}\sqrt{13}e^{45}$	$(\frac{2}{341}, \frac{28}{341}, -\frac{24}{341}, -\frac{50}{341}, \frac{54}{341}, \frac{2}{341}, -\frac{2}{31}, \frac{30}{341}, \frac{4}{341})$ $+ \frac{16}{341}\sqrt{39}e^6 \otimes e_7 + \frac{8}{341}\sqrt{78}e^2 \otimes e_9$	{134579, 3689}
93:61	$0, 0, 0, 0, 0, 0, \frac{4}{343}\sqrt{390}e^{13} + \frac{4}{343}\sqrt{485}e^{24}, \frac{4}{343}\sqrt{390}e^{12} + \frac{60}{343}e^{35},$ $\frac{60}{343}e^{16} + \frac{8}{343}\sqrt{65}e^{45}$	$(-\frac{2}{49}, \frac{12}{343}, \frac{64}{343}, \frac{38}{343}, -\frac{66}{343}, -\frac{2}{49}, \frac{50}{343}, -\frac{2}{343}, -\frac{4}{49})$ $+ \frac{8}{343}\sqrt{195}e^2 \otimes e_9 + \frac{8}{343}\sqrt{195}e^4 \otimes e_8$	{1589, 4679}
93:61	$0, 0, 0, 0, 0, 0, \frac{8}{173}\sqrt{39}e^{13} + \frac{8}{173}\sqrt{127}e^{24}, \frac{8}{173}\sqrt{78}e^{12} + \frac{16}{173}\sqrt{22}e^{35},$ $\frac{8}{173}\sqrt{114}e^{16} + \frac{8}{173}\sqrt{91}e^{45}$	$(\frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $- \frac{24}{173}\sqrt{13}e^6 \otimes e_7 + \frac{8}{173}\sqrt{39}e^4 \otimes e_8$	{123789, 134579, 234569, 3689}
93:61	$0, 0, 0, 0, 0, 0, \frac{8}{173}\sqrt{39}e^{13} + \frac{8}{173}\sqrt{127}e^{24}, \frac{8}{173}\sqrt{78}e^{12} + \frac{16}{173}\sqrt{22}e^{35},$ $\frac{8}{173}\sqrt{114}e^{16} + \frac{8}{173}\sqrt{91}e^{45}$	$(\frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{24}{173}\sqrt{13}e^6 \otimes e_7 + \frac{8}{173}\sqrt{39}e^4 \otimes e_8$	{123789, 134579, 234569, 3689}
93:61	$0, 0, 0, 0, 0, 0, \frac{4}{373}\sqrt{2730}e^{13} + \frac{4}{373}\sqrt{3745}e^{24},$ $\frac{4}{373}\sqrt{2730}e^{12} + \frac{4}{373}\sqrt{105}e^{35}, \frac{4}{373}\sqrt{3745}e^{16} + \frac{8}{373}\sqrt{455}e^{45}$	$(-\frac{46}{373}, \frac{188}{373}, \frac{136}{373}, -\frac{98}{373}, \frac{6}{373}, -\frac{46}{373}, \frac{90}{373}, \frac{142}{373}, -\frac{92}{373})$ $+ \frac{8}{373}\sqrt{2730}e^2 \otimes e_9$	{134789, 1589, 3569, 4679}
93:62	$0, 0, 0, 0, 0, 0, \frac{22}{571}\sqrt{183}e^{14} + \frac{11}{571}\sqrt{82}e^{23}, \frac{22}{571}\sqrt{17}e^{12} + \frac{11}{571}\sqrt{354}e^{35},$ $\frac{55}{571}\sqrt{10}e^{16} + \frac{22}{571}\sqrt{47}e^{45}$	$(\frac{143}{571}, \frac{22}{571}, -\frac{99}{1142}, -\frac{341}{1142}, \frac{429}{1142}, -\frac{99}{571}, -\frac{55}{1142}, \frac{165}{571}, \frac{44}{571})$ $+ \frac{11}{571}\sqrt{1162}e^5 \otimes e_7 - \frac{22}{571}\sqrt{221}e^1 \otimes e_6$	{12345, 127, 1378, 1458}
93:62	$0, 0, 0, 0, 0, 0, \frac{22}{571}\sqrt{183}e^{14} + \frac{11}{571}\sqrt{82}e^{23}, \frac{22}{571}\sqrt{17}e^{12} + \frac{11}{571}\sqrt{354}e^{35},$ $\frac{55}{571}\sqrt{10}e^{16} + \frac{22}{571}\sqrt{47}e^{45}$	$(\frac{143}{571}, \frac{22}{571}, -\frac{99}{1142}, -\frac{341}{1142}, \frac{429}{1142}, -\frac{99}{571}, -\frac{55}{1142}, \frac{165}{571}, \frac{44}{571})$ $+ \frac{11}{571}\sqrt{1162}e^5 \otimes e_7 + \frac{22}{571}\sqrt{221}e^1 \otimes e_6$	{12345, 127, 1378, 1458}
93:62	$0, 0, 0, 0, 0, 0, \frac{16}{289}\sqrt{87}e^{14} + \frac{16}{289}\sqrt{3}e^{23}, \frac{16}{289}\sqrt{2}e^{12} + \frac{48}{289}\sqrt{6}e^{35},$ $\frac{32}{289}\sqrt{5}e^{16} + \frac{16}{289}\sqrt{3}e^{45}$	$(-\frac{76}{289}, \frac{28}{289}, -\frac{24}{289}, \frac{80}{289}, -\frac{24}{289}, \frac{132}{289}, \frac{4}{289}, -\frac{48}{289}, \frac{56}{289})$ $+ \frac{16}{289}\sqrt{119}e^6 \otimes e_7 + \frac{16}{289}\sqrt{137}e^4 \otimes e_8$	{123456, 3457}
93:62	$0, 0, 0, 0, 0, 0, \frac{17}{5605}\sqrt{42}e^{14} + \frac{153}{5605}\sqrt{46}e^{23},$ $\frac{51}{5605}\sqrt{290}e^{12} + \frac{34}{5605}\sqrt{671}e^{35}, \frac{17}{5605}\sqrt{2442}e^{16} + \frac{17}{5605}\sqrt{2042}e^{45}$	$(\frac{119}{1121}, -\frac{68}{5605}, \frac{153}{5605}, -\frac{102}{1121}, \frac{374}{5605}, -\frac{731}{5605}, \frac{17}{1121}, \frac{527}{5605}, -\frac{136}{5605})$ $+ \frac{17}{5605}\sqrt{4494}e^5 \otimes e_7 + \frac{34}{5605}\sqrt{1434}e^3 \otimes e_9$	{2345, 378}
93:62	$0, 0, 0, 0, 0, 0, \frac{12}{2039}\sqrt{46}e^{14} + \frac{12}{2039}\sqrt{5773}e^{23},$ $\frac{84}{2039}\sqrt{115}e^{12} + \frac{24}{2039}\sqrt{4715}e^{35}, \frac{12}{2039}\sqrt{16951}e^{16} + \frac{12}{2039}\sqrt{9545}e^{45}$	$(-\frac{670}{2039}, \frac{316}{2039}, -\frac{259}{2039}, \frac{727}{2039}, -\frac{95}{2039}, \frac{1302}{2039}, \frac{57}{2039}, -\frac{354}{2039}, \frac{632}{2039})$ $+ \frac{12}{2039}\sqrt{39767}e^6 \otimes e_8$	{1389, 145789, 34569, 679}
93:62	$0, 0, 0, 0, 0, 0, \frac{1}{74}\sqrt{39}e^{14} + \frac{1}{148}\sqrt{142}e^{23}, \frac{1}{296}\sqrt{518}e^{12} + \frac{1}{148}\sqrt{130}e^{35},$ $\frac{1}{296}\sqrt{206}e^{16} + \frac{1}{74}\sqrt{42}e^{45}$	$(-\frac{1}{148}, -\frac{1}{148}, \frac{11}{296}, \frac{11}{296}, -\frac{15}{296}, -\frac{1}{148}, \frac{9}{296}, -\frac{1}{74}, -\frac{1}{74})$ $- \frac{1}{296}\sqrt{106}e^6 \otimes e_8 + \frac{1}{296}\sqrt{986}e^2 \otimes e_9$	{1236, 124567, 23458, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{1}{74}\sqrt{39}e^{14} + \frac{1}{148}\sqrt{142}e^{23}, \frac{1}{296}\sqrt{518}e^{12} + \frac{1}{148}\sqrt{130}e^{35},$ $\frac{1}{296}\sqrt{206}e^{16} + \frac{1}{74}\sqrt{42}e^{45}$	$(-\frac{1}{148}, -\frac{1}{148}, \frac{11}{296}, \frac{11}{296}, -\frac{15}{296}, -\frac{1}{148}, \frac{9}{296}, -\frac{1}{74}, -\frac{1}{74})$ $+ \frac{1}{296}\sqrt{106}e^6 \otimes e_8 + \frac{1}{296}\sqrt{986}e^2 \otimes e_9$	{1236, 124567, 23458, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{20}{493}\sqrt{74}e^{14} + \frac{20}{493}\sqrt{21}e^{23}, \frac{100}{493}e^{12} + \frac{20}{493}\sqrt{170}e^{35},$ $\frac{20}{493}\sqrt{77}e^{16} + \frac{20}{493}\sqrt{13}e^{45}$	$(-\frac{70}{493}, \frac{60}{493}, -\frac{135}{493}, -\frac{5}{493}, \frac{125}{493}, \frac{190}{493}, -\frac{75}{493}, -\frac{10}{493}, \frac{120}{493})$ $+ \frac{20}{493}\sqrt{211}e^6 \otimes e_8 + \frac{20}{493}\sqrt{226}e^5 \otimes e_7$	{3478, 58}
93:62	$0, 0, 0, 0, 0, 0, \frac{2}{253}\sqrt{6195}e^{14} + \frac{6}{253}\sqrt{767}e^{23},$ $\frac{1}{253}\sqrt{30090}e^{12} + \frac{2}{253}\sqrt{3009}e^{35}, \frac{1}{253}\sqrt{38586}e^{16} + \frac{59}{253}\sqrt{6}e^{45}$	$(-\frac{58}{253}, \frac{43}{253}, -\frac{76}{253}, \frac{25}{253}, \frac{61}{253}, \frac{144}{253}, -\frac{3}{253}, -\frac{15}{253}, \frac{86}{253})$ $+ \frac{1}{253}\sqrt{76818}e^6 \otimes e_7$	{123468, 146, 247, 3478}
93:62	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{662}e^{14} + \frac{6}{247}\sqrt{17}e^{23}, \frac{1}{247}\sqrt{474}e^{12} + \frac{1}{247}\sqrt{570}e^{35},$ $\frac{1}{247}\sqrt{186}e^{16} + \frac{2}{247}\sqrt{177}e^{45}$	$(-\frac{1}{247}, -\frac{2}{247}, \frac{21}{494}, \frac{1}{26}, -\frac{27}{494}, -\frac{3}{247}, \frac{17}{494}, -\frac{3}{247}, -\frac{4}{247})$ $+ \frac{1}{247}\sqrt{994}e^2 \otimes e_9 + \frac{3}{247}\sqrt{10}e^1 \otimes e_6$	{1236, 124567, 23458, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{662}e^{14} + \frac{6}{247}\sqrt{17}e^{23}, \frac{1}{247}\sqrt{474}e^{12} + \frac{1}{247}\sqrt{570}e^{35},$ $\frac{1}{247}\sqrt{186}e^{16} + \frac{2}{247}\sqrt{177}e^{45}$	$(-\frac{1}{247}, -\frac{2}{247}, \frac{21}{494}, \frac{1}{26}, -\frac{27}{494}, -\frac{3}{247}, \frac{17}{494}, -\frac{3}{247}, -\frac{4}{247})$ $+ \frac{1}{247}\sqrt{994}e^2 \otimes e_9 - \frac{3}{247}\sqrt{10}e^1 \otimes e_6$	{1236, 124567, 23458, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{12}{289}\sqrt{230}e^{14} + \frac{92}{289}\sqrt{3}e^{23}, \frac{12}{289}\sqrt{230}e^{12} + \frac{4}{289}\sqrt{1541}e^{35},$ $\frac{92}{289}\sqrt{3}e^{16} + \frac{4}{289}\sqrt{1541}e^{45}$	$(-\frac{71}{289}, \frac{19}{289}, \frac{42}{289}, \frac{132}{289}, -\frac{94}{289}, \frac{109}{289}, \frac{61}{289}, -\frac{52}{289}, \frac{38}{289})$ $+ \frac{4}{289}\sqrt{5727}e^4 \otimes e_8$	{12469, 156789, 2589, 479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:62	$0, 0, 0, 0, 0, 0, \frac{4}{283}\sqrt{35}e^{14} + \frac{1}{283}\sqrt{582}e^{23}, \frac{2}{283}\sqrt{114}e^{12} + \frac{1}{283}\sqrt{510}e^{35},$ $\frac{5}{283}\sqrt{6}e^{16} + \frac{6}{283}\sqrt{19}e^{45}$	$(\frac{11}{283}, -\frac{2}{283}, \frac{9}{566}, -\frac{17}{566}, \frac{9}{566}, -\frac{15}{283}, \frac{5}{566}, \frac{9}{283}, -\frac{4}{283})$ $+\frac{1}{283}\sqrt{102}e^5 \otimes e_7 + \frac{2}{283}\sqrt{235}e^2 \otimes e_9$	{23458, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{5}{1607}\sqrt{1754}e^{14} + \frac{30}{1607}\sqrt{46}e^{23},$ $\frac{15}{1607}\sqrt{166}e^{12} + \frac{10}{1607}\sqrt{402}e^{35}, \frac{5}{1607}\sqrt{438}e^{16} + \frac{5}{1607}\sqrt{2046}e^{45}$	$(\frac{40}{1607}, -\frac{25}{1607}, \frac{105}{1607}, \frac{40}{1607}, -\frac{90}{1607}, -\frac{90}{1607}, \frac{80}{1607}, \frac{15}{1607}, -\frac{50}{1607})$ $+\frac{35}{1607}\sqrt{58}e^2 \otimes e_9 + \frac{5}{1607}\sqrt{114}e^4 \otimes e_8$	{124567, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{1}{225}\sqrt{6}e^{14} + \frac{2}{225}\sqrt{255}e^{23}, \frac{4}{225}\sqrt{51}e^{12} + \frac{1}{225}\sqrt{462}e^{35},$ $\frac{1}{225}\sqrt{1182}e^{16} + \frac{2}{225}\sqrt{6}e^{45}$	$(-\frac{1}{18}, \frac{1}{450}, \frac{7}{225}, \frac{4}{45}, -\frac{19}{225}, \frac{3}{50}, \frac{1}{30}, -\frac{4}{75}, \frac{1}{225})$ $+\frac{1}{25}\sqrt{14}e^6 \otimes e_7 + \frac{2}{225}\sqrt{339}e^3 \otimes e_9$	{1245789, 45689}
93:62	$0, 0, 0, 0, 0, 0, \frac{3}{613}\sqrt{3462}e^{14} + \frac{3}{613}\sqrt{462}e^{23}, \frac{15}{613}\sqrt{30}e^{12} + \frac{6}{613}\sqrt{714}e^{35},$ $\frac{9}{613}\sqrt{202}e^{16} + \frac{99}{613}\sqrt{2}e^{45}$	$(-\frac{81}{613}, \frac{36}{613}, -\frac{81}{613}, \frac{36}{613}, \frac{36}{613}, \frac{153}{613}, -\frac{45}{613}, -\frac{45}{613}, \frac{72}{613})$ $+\frac{3}{613}\sqrt{4746}e^5 \otimes e_7 + \frac{6}{613}\sqrt{1338}e^4 \otimes e_8$	{2589, 479}
93:62	$0, 0, 0, 0, 0, 0, \frac{9}{535}\sqrt{154}e^{14} + \frac{18}{107}\sqrt{2}e^{23}, \frac{36}{535}\sqrt{6}e^{12} + \frac{9}{535}\sqrt{314}e^{35},$ $\frac{108}{535}\sqrt{3}e^{16} + \frac{18}{535}\sqrt{6}e^{45}$	$(-\frac{42}{535}, -\frac{3}{535}, \frac{15}{107}, \frac{114}{535}, -\frac{24}{107}, \frac{36}{535}, \frac{72}{535}, -\frac{9}{107}, -\frac{6}{535})$ $+\frac{9}{535}\sqrt{406}e^6 \otimes e_8 + \frac{9}{535}\sqrt{566}e^3 \otimes e_9$	{134567, 378}
93:62	$0, 0, 0, 0, 0, 0, \frac{8}{99}\sqrt{33}e^{14} + \frac{4}{99}\sqrt{246}e^{23}, \frac{8}{99}\sqrt{33}e^{12} + \frac{8}{99}\sqrt{30}e^{35},$ $\frac{4}{99}\sqrt{246}e^{16} + \frac{8}{99}\sqrt{30}e^{45}$	$(\frac{17}{99}, -\frac{5}{99}, \frac{38}{99}, \frac{16}{99}, -\frac{26}{99}, -\frac{3}{11}, \frac{1}{3}, \frac{4}{33}, -\frac{10}{99})$ $+\frac{4}{99}\sqrt{510}e^3 \otimes e_9$	{12368, 134567, 2345, 378}
93:62	$0, 0, 0, 0, 0, 0, \frac{2}{2189}\sqrt{515}e^{14} + \frac{18}{2189}\sqrt{7}e^{23},$ $\frac{1}{2189}\sqrt{1590}e^{12} + \frac{2}{2189}\sqrt{489}e^{35}, \frac{1}{2189}\sqrt{834}e^{16} + \frac{1}{2189}\sqrt{2346}e^{45}$	$(-\frac{14}{2189}, -\frac{1}{2189}, \frac{12}{2189}, \frac{25}{2189}, -\frac{27}{2189}, \frac{12}{2189}, \frac{1}{199}, -\frac{15}{2189}, -\frac{2}{2189})$ $+\frac{3}{2189}\sqrt{58}e^6 \otimes e_7 + \frac{8}{2189}\sqrt{55}e^2 \otimes e_9$	{1236, 278}
93:62	$0, 0, 0, 0, 0, 0, \frac{5}{263}\sqrt{1182}e^{14} + \frac{1}{263}\sqrt{21867}e^{23},$ $\frac{1}{263}\sqrt{20094}e^{12} + \frac{1}{263}\sqrt{28565}e^{35}, \frac{1}{263}\sqrt{2955}e^{16} + \frac{1}{263}\sqrt{16154}e^{45}$	$(\frac{26}{263}, \frac{38}{263}, -\frac{171}{526}, -\frac{147}{526}, \frac{299}{526}, \frac{50}{263}, -\frac{95}{526}, \frac{64}{263}, \frac{76}{263})$ $+\frac{21}{263}\sqrt{197}e^5 \otimes e_7$	{2359, 2479, 34789, 589}
93:62	$0, 0, 0, 0, 0, 0, \frac{8}{1927}\sqrt{1118}e^{14} + \frac{72}{1927}\sqrt{13}e^{23},$ $\frac{8}{1927}\sqrt{906}e^{12} + \frac{16}{1927}\sqrt{255}e^{35}, \frac{56}{1927}\sqrt{6}e^{16} + \frac{8}{1927}\sqrt{1257}e^{45}$	$(\frac{74}{1927}, -\frac{32}{1927}, \frac{3}{47}, \frac{17}{1927}, -\frac{81}{1927}, -\frac{138}{1927}, \frac{91}{1927}, \frac{42}{1927}, -\frac{64}{1927})$ $+\frac{8}{1927}\sqrt{1771}e^2 \otimes e_9$	{1236, 124567, 23458, 278}
93:63	$0, 0, 0, 0, 0, 0, \frac{15}{1213}\sqrt{2090}e^{12}, \frac{13}{1213}\sqrt{1254}e^{34} + \frac{1}{1213}\sqrt{645810}e^{56},$ $\frac{6}{1213}\sqrt{13585}e^{13} + \frac{2}{1213}\sqrt{94677}e^{25} + \frac{1}{1213}\sqrt{249546}e^{46}$	$(\frac{448}{1213}, \frac{102}{1213}, -\frac{384}{1213}, \frac{205}{1213}, -\frac{38}{1213}, -\frac{141}{1213}, \frac{550}{1213}, -\frac{179}{1213}, \frac{64}{1213})$ $+\frac{6}{1213}\sqrt{36157}e^1 \otimes e_8$	{1234, 179, 235789, 458}
93:63	$0, 0, 0, 0, 0, 0, \frac{111}{233}\sqrt{2}e^{12}, \frac{1}{233}\sqrt{19758}e^{34} + \frac{1}{233}\sqrt{10434}e^{56},$ $\frac{6}{233}\sqrt{518}e^{13} + \frac{4}{233}\sqrt{222}e^{25} + \frac{1}{233}\sqrt{21534}e^{46}$	$(\frac{2}{233}, -\frac{66}{233}, \frac{24}{233}, \frac{47}{233}, \frac{92}{233}, -\frac{21}{233}, -\frac{64}{233}, \frac{71}{233}, \frac{26}{233})$ $+\frac{6}{233}\sqrt{1258}e^4 \otimes e_7$	{123459, 157, 2378, 489}
93:63	$0, 0, 0, 0, 0, 0, \frac{5}{7821}\sqrt{4810}e^{12}, \frac{25}{7821}\sqrt{130}e^{34} + \frac{50}{7821}\sqrt{39}e^{56},$ $\frac{5}{7821}\sqrt{4378}e^{13} + \frac{5}{7821}\sqrt{3166}e^{25} + \frac{5}{7821}\sqrt{2386}e^{46}$	$(\frac{35}{2607}, -\frac{20}{711}, -\frac{10}{869}, \frac{170}{7821}, \frac{235}{7821}, -\frac{155}{7821}, -\frac{115}{7821}, \frac{80}{7821}, \frac{5}{2607})$ $+\frac{10}{7821}\sqrt{1561}e^3 \otimes e_7 + \frac{5}{7821}\sqrt{8194}e^1 \otimes e_8$	{1234, 179}
93:63	$0, 0, 0, 0, 0, 0, \frac{6}{215}\sqrt{110}e^{12}, \frac{2}{215}\sqrt{255}e^{34} + \frac{2}{215}\sqrt{1230}e^{56},$ $\frac{6}{215}\sqrt{55}e^{13} + \frac{8}{215}\sqrt{15}e^{25} + \frac{8}{215}\sqrt{30}e^{46}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+\frac{18}{215}\sqrt{15}e^5 \otimes e_7 + \frac{6}{215}\sqrt{190}e^1 \otimes e_8$	{179, 458}
93:63	$0, 0, 0, 0, 0, 0, \frac{1}{5543}\sqrt{4466}e^{12}, \frac{1}{5543}\sqrt{546}e^{34} + \frac{1}{5543}\sqrt{4622}e^{56},$ $\frac{4}{5543}\sqrt{86}e^{13} + \frac{2}{5543}\sqrt{922}e^{25} + \frac{1}{5543}\sqrt{1454}e^{46}$	$(-\frac{14}{5543}, \frac{38}{5543}, \frac{12}{5543}, -\frac{27}{5543}, -\frac{40}{5543}, \frac{25}{5543}, \frac{24}{5543}, -\frac{15}{5543}, -\frac{2}{5543})$ $+\frac{2}{5543}\sqrt{1318}e^6 \otimes e_7 + \frac{4}{5543}\sqrt{310}e^1 \otimes e_8$	{1479, 2345789}
93:63	$0, 0, 0, 0, 0, 0, \frac{66}{2441}\sqrt{718}e^{12}, \frac{4}{2441}\sqrt{191706}e^{34} + \frac{2}{2441}\sqrt{37695}e^{56},$ $\frac{2}{2441}\sqrt{506190}e^{13} + \frac{6}{2441}\sqrt{24771}e^{25} + \frac{20}{2441}\sqrt{2154}e^{46}$	$(-\frac{786}{2441}, -\frac{109}{2441}, \frac{1259}{2441}, -\frac{102}{2441}, \frac{582}{2441}, \frac{575}{2441}, -\frac{895}{2441}, \frac{1157}{2441}, \frac{473}{2441})$ $+\frac{6}{2441}\sqrt{243043}e^3 \otimes e_7$	{1234, 12368, 146789, 179}
93:64	$0, 0, 0, 0, 0, 0, -\frac{2}{47}\sqrt{190}e^{13} + \frac{2}{47}\sqrt{57}e^{24}, \frac{2}{47}\sqrt{190}e^{15} + \frac{2}{47}\sqrt{57}e^{26},$ $\frac{2}{47}\sqrt{190}e^{34} + \frac{2}{47}\sqrt{190}e^{56}$	$(\frac{27}{47}, \frac{14}{47}, -\frac{12}{47}, \frac{1}{47}, -\frac{12}{47}, \frac{1}{47}, \frac{15}{47}, \frac{15}{47}, -\frac{11}{47})$ $+\frac{2}{47}\sqrt{741}e^1 \otimes e_9$	{13456, 1348, 178, 35789, 3679, 469, 13456, 1348, 178, 35789, 3679, 469}
93:64	$0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{190}e^{13} + \frac{2}{47}\sqrt{57}e^{24}, \frac{2}{47}\sqrt{190}e^{15} + \frac{2}{47}\sqrt{57}e^{26},$ $\frac{2}{47}\sqrt{190}e^{34} + \frac{2}{47}\sqrt{190}e^{56}$	$(\frac{27}{47}, \frac{14}{47}, -\frac{12}{47}, \frac{1}{47}, -\frac{12}{47}, \frac{1}{47}, \frac{15}{47}, \frac{15}{47}, -\frac{11}{47})$ $+\frac{2}{47}\sqrt{741}e^1 \otimes e_9$	{13456, 1348, 178, 35789, 3679, 469, 13456, 1348, 178, 35789, 3679, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:64	$0, 0, 0, 0, 0, 0, -\frac{4}{173}\sqrt{254}e^{13} + \frac{4}{173}\sqrt{58}e^{24}, \frac{4}{173}\sqrt{58}e^{15} + \frac{4}{173}\sqrt{254}e^{26},$ $\frac{4}{173}\sqrt{46}e^{34} + \frac{4}{173}\sqrt{46}e^{56}$	$(-\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{8}{173}\sqrt{78}e^3 \otimes e_8 + \frac{8}{173}\sqrt{78}e^6 \otimes e_7$	{12369, 1245789, 3579, 12369, 1245789, 3579}
93:64	$0, 0, 0, 0, 0, 0, \frac{4}{173}\sqrt{254}e^{13} + \frac{4}{173}\sqrt{58}e^{24}, \frac{4}{173}\sqrt{58}e^{15} + \frac{4}{173}\sqrt{254}e^{26},$ $\frac{4}{173}\sqrt{46}e^{34} + \frac{4}{173}\sqrt{46}e^{56}$	$(-\frac{32}{173}, -\frac{32}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{12}{173}, -\frac{12}{173}, \frac{40}{173})$ $+ \frac{8}{173}\sqrt{78}e^3 \otimes e_8 + \frac{8}{173}\sqrt{78}e^6 \otimes e_7$	{12369, 1245789, 3579, 12369, 1245789, 3579}
93:64	$0, 0, 0, 0, 0, 0, -\frac{1}{44}\sqrt{266}e^{13} + \frac{1}{44}\sqrt{462}e^{24}, \frac{1}{44}\sqrt{266}e^{15} + \frac{3}{44}\sqrt{70}e^{26},$ $\frac{3}{44}\sqrt{70}e^{34} + \frac{1}{44}\sqrt{462}e^{56}$	$(-\frac{7}{22}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{22}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{22}\sqrt{273}e^3 \otimes e_8$	{123569, 124789, 1345, 1678, 23467, 258, 379, 45689, 123569, 124789, 1345, 1678, 23467, 258, 379, 45689}
93:64	$0, 0, 0, 0, 0, 0, \frac{1}{44}\sqrt{266}e^{13} + \frac{1}{44}\sqrt{462}e^{24}, \frac{1}{44}\sqrt{266}e^{15} + \frac{3}{44}\sqrt{70}e^{26},$ $\frac{3}{44}\sqrt{70}e^{34} + \frac{1}{44}\sqrt{462}e^{56}$	$(-\frac{7}{22}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, \frac{3}{11}, -\frac{1}{44}, -\frac{1}{22}, -\frac{1}{22}, \frac{1}{4})$ $+ \frac{1}{22}\sqrt{273}e^3 \otimes e_8$	{123569, 124789, 1345, 1678, 23467, 258, 379, 45689, 123569, 124789, 1345, 1678, 23467, 258, 379, 45689}
93:64	$0, 0, 0, 0, 0, 0, -\frac{2}{677}\sqrt{590}e^{13} + \frac{2}{677}\sqrt{762}e^{24}, \frac{2}{677}\sqrt{590}e^{15} + \frac{2}{677}\sqrt{798}e^{26},$ $\frac{2}{677}\sqrt{1110}e^{34} + \frac{30}{677}\sqrt{2}e^{56}$	$(-\frac{8}{677}, \frac{44}{677}, \frac{18}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{34}{677}, \frac{10}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^1 \otimes e_9 + \frac{4}{677}\sqrt{390}e^3 \otimes e_8$	{1345, 1678, 379, 45689, 1345, 1678, 379, 45689}
93:64	$0, 0, 0, 0, 0, 0, \frac{2}{677}\sqrt{590}e^{13} + \frac{2}{677}\sqrt{762}e^{24}, \frac{2}{677}\sqrt{590}e^{15} + \frac{2}{677}\sqrt{798}e^{26},$ $\frac{2}{677}\sqrt{1110}e^{34} + \frac{30}{677}\sqrt{2}e^{56}$	$(-\frac{8}{677}, \frac{44}{677}, \frac{18}{677}, -\frac{34}{677}, \frac{18}{677}, -\frac{34}{677}, \frac{10}{677}, \frac{10}{677}, -\frac{16}{677})$ $+ \frac{12}{677}\sqrt{26}e^1 \otimes e_9 + \frac{4}{677}\sqrt{390}e^3 \otimes e_8$	{1345, 1678, 379, 45689, 1345, 1678, 379, 45689}
93:64	$0, 0, 0, 0, 0, 0, -\frac{4}{43}\sqrt{6}e^{13} + \frac{2}{43}\sqrt{15}e^{24}, \frac{6}{43}\sqrt{6}e^{15} + \frac{2}{43}\sqrt{15}e^{26},$ $\frac{6}{43}\sqrt{6}e^{34} + \frac{4}{43}\sqrt{6}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^1 \otimes e_9 + \frac{2}{43}\sqrt{78}e^4 \otimes e_8$	{13457, 168, 35689, 479, 13457, 168, 35689, 479}
93:64	$0, 0, 0, 0, 0, 0, \frac{4}{43}\sqrt{6}e^{13} + \frac{2}{43}\sqrt{15}e^{24}, \frac{6}{43}\sqrt{6}e^{15} + \frac{2}{43}\sqrt{15}e^{26},$ $\frac{6}{43}\sqrt{6}e^{34} + \frac{4}{43}\sqrt{6}e^{56}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{2}{43}\sqrt{39}e^1 \otimes e_9 + \frac{2}{43}\sqrt{78}e^4 \otimes e_8$	{13457, 168, 35689, 479, 13457, 168, 35689, 479}
93:65	$0, 0, 0, 0, 0, 0, -\frac{4}{173}\sqrt{46}e^{13} + \frac{4}{173}\sqrt{46}e^{24}, \frac{4}{173}\sqrt{254}e^{15} + \frac{4}{173}\sqrt{58}e^{26},$ $\frac{4}{173}\sqrt{58}e^{35} + \frac{4}{173}\sqrt{254}e^{46}$	$(\frac{20}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{40}{173}, -\frac{12}{173}, -\frac{12}{173})$ $+ \frac{8}{173}\sqrt{78}e^1 \otimes e_9 + \frac{8}{173}\sqrt{78}e^4 \otimes e_8$	{138, 14567, 2356789, 138, 14567, 2356789}
93:65	$0, 0, 0, 0, 0, 0, \frac{4}{173}\sqrt{46}e^{13} + \frac{4}{173}\sqrt{46}e^{24}, \frac{4}{173}\sqrt{254}e^{15} + \frac{4}{173}\sqrt{58}e^{26},$ $\frac{4}{173}\sqrt{58}e^{35} + \frac{4}{173}\sqrt{254}e^{46}$	$(\frac{20}{173}, \frac{20}{173}, \frac{20}{173}, \frac{20}{173}, -\frac{32}{173}, -\frac{32}{173}, \frac{40}{173}, -\frac{12}{173}, -\frac{12}{173})$ $+ \frac{8}{173}\sqrt{78}e^1 \otimes e_9 + \frac{8}{173}\sqrt{78}e^4 \otimes e_8$	{138, 14567, 2356789, 138, 14567, 2356789}
93:65	$0, 0, 0, 0, 0, 0, -\frac{8}{185}\sqrt{210}e^{13} + \frac{8}{185}\sqrt{102}e^{24}, \frac{8}{185}\sqrt{210}e^{15} + \frac{8}{185}\sqrt{102}e^{26},$ $\frac{8}{185}\sqrt{2}e^{35} + \frac{8}{185}\sqrt{314}e^{46}$	$(\frac{16}{37}, \frac{16}{37}, -\frac{24}{185}, -\frac{24}{185}, -\frac{24}{185}, -\frac{24}{185}, \frac{56}{185}, \frac{56}{185}, -\frac{48}{185})$ $+ \frac{32}{185}\sqrt{39}e^1 \otimes e_9$	{1235, 124678, 13456, 178, 23479, 3679, 1235, 124678, 13456, 178, 23479, 3679}
93:65	$0, 0, 0, 0, 0, 0, \frac{8}{185}\sqrt{210}e^{13} + \frac{8}{185}\sqrt{102}e^{24}, \frac{8}{185}\sqrt{210}e^{15} + \frac{8}{185}\sqrt{102}e^{26},$ $\frac{8}{185}\sqrt{2}e^{35} + \frac{8}{185}\sqrt{314}e^{46}$	$(\frac{16}{37}, \frac{16}{37}, -\frac{24}{185}, -\frac{24}{185}, -\frac{24}{185}, -\frac{24}{185}, \frac{56}{185}, \frac{56}{185}, -\frac{48}{185})$ $+ \frac{32}{185}\sqrt{39}e^1 \otimes e_9$	{1235, 124678, 13456, 178, 23479, 3679, 1235, 124678, 13456, 178, 23479, 3679}
93:67	$0, 0, 0, 0, 0, 0, \frac{6}{89}\sqrt{73}e^{13} + \frac{6}{89}\sqrt{73}e^{24}, -\frac{6}{89}\sqrt{5}e^{12} + \frac{6}{89}\sqrt{5}e^{34},$ $\frac{12}{89}\sqrt{13}e^{14} + \frac{12}{89}\sqrt{13}e^{23} + \frac{6}{89}\sqrt{94}e^{56}$	$(\frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{42}{89}, -\frac{36}{89}, \frac{6}{89}, \frac{6}{89}, \frac{6}{89})$ $+ \frac{12}{89}\sqrt{39}e^5 \otimes e_7$	{1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589}
93:67	$0, 0, 0, 0, 0, 0, -\frac{6}{89}\sqrt{73}e^{13} + \frac{6}{89}\sqrt{73}e^{24}, \frac{6}{89}\sqrt{5}e^{12} + \frac{6}{89}\sqrt{5}e^{34},$ $\frac{12}{89}\sqrt{13}e^{14} + \frac{12}{89}\sqrt{13}e^{23} + \frac{6}{89}\sqrt{94}e^{56}$	$(\frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{42}{89}, -\frac{36}{89}, \frac{6}{89}, \frac{6}{89}, \frac{6}{89})$ $+ \frac{12}{89}\sqrt{39}e^5 \otimes e_7$	{1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589}
93:67	$0, 0, 0, 0, 0, 0, \frac{6}{89}\sqrt{73}e^{13} + \frac{6}{89}\sqrt{73}e^{24}, \frac{6}{89}\sqrt{5}e^{12} + \frac{6}{89}\sqrt{5}e^{34},$ $\frac{12}{89}\sqrt{13}e^{14} + \frac{12}{89}\sqrt{13}e^{23} + \frac{6}{89}\sqrt{94}e^{56}$	$(\frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{3}{89}, \frac{42}{89}, -\frac{36}{89}, \frac{6}{89}, \frac{6}{89}, \frac{6}{89})$ $+ \frac{12}{89}\sqrt{39}e^5 \otimes e_7$	{1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589, 1234589, 1278, 1356, 14679, 589}
93:68	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{15}e^{13} + \frac{2}{3}e^{24}, -\frac{2}{9}\sqrt{15}e^{12} + \frac{2}{3}e^{34},$ $\frac{4}{9}\sqrt{3}e^{15} + \frac{2}{9}\sqrt{3}e^{23} + \frac{4}{9}\sqrt{3}e^{46}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, -\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0)$ $+ \frac{4}{9}\sqrt{6}e^1 \otimes e_5$	{12467, 258, 12467, 258}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:68	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{15}e^{13} + \frac{2}{3}e^{24}, \frac{2}{9}\sqrt{15}e^{12} + \frac{2}{3}e^{34},$ $\frac{4}{9}\sqrt{3}e^{15} + \frac{2}{9}\sqrt{3}e^{23} + \frac{4}{9}\sqrt{3}e^{46}$	$(\frac{1}{3}, 0, 0, \frac{1}{3}, -\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0)$ $+\frac{4}{9}\sqrt{6}e^1 \otimes e_5$	{12467, 258, 12467, 258}
93:69	$0, 0, 0, 0, 0, 0, -\frac{57}{1129}\sqrt{83}e^{13} + \frac{19}{1129}\sqrt{997}e^{24},$ $\frac{38}{1129}\sqrt{61}e^{12} + \frac{190}{1129}\sqrt{5}e^{35}, \frac{19}{1129}\sqrt{493}e^{14} + \frac{19}{1129}\sqrt{743}e^{23} + \frac{19}{1129}\sqrt{998}e^{56}$	$(\frac{133}{1129}, \frac{133}{1129}, -\frac{114}{1129}, -\frac{114}{1129}, \frac{380}{1129}, \frac{380}{1129}, -\frac{361}{1129}, \frac{19}{1129}, \frac{266}{1129}, \frac{19}{1129})$ $+\frac{19}{1129}\sqrt{1982}e^5 \otimes e_7$	{1356, 14679, 3478, 589, 1356, 14679, 3478, 589}
93:69	$0, 0, 0, 0, 0, 0, \frac{57}{1129}\sqrt{83}e^{13} + \frac{19}{1129}\sqrt{997}e^{24},$ $\frac{38}{1129}\sqrt{61}e^{12} + \frac{190}{1129}\sqrt{5}e^{35}, \frac{19}{1129}\sqrt{493}e^{14} + \frac{19}{1129}\sqrt{743}e^{23} + \frac{19}{1129}\sqrt{998}e^{56}$	$(\frac{133}{1129}, \frac{133}{1129}, -\frac{114}{1129}, -\frac{114}{1129}, \frac{380}{1129}, \frac{380}{1129}, -\frac{361}{1129}, \frac{19}{1129}, \frac{266}{1129}, \frac{19}{1129})$ $+\frac{19}{1129}\sqrt{1982}e^5 \otimes e_7$	{1356, 14679, 3478, 589, 1356, 14679, 3478, 589}
93:69	$0, 0, 0, 0, 0, 0, -\frac{17}{1081}\sqrt{1105}e^{13} + \frac{17}{1081}\sqrt{795}e^{24},$ $\frac{34}{1081}\sqrt{33}e^{12} + \frac{34}{1081}\sqrt{155}e^{35}, \frac{17}{1081}\sqrt{885}e^{14} + \frac{17}{1081}\sqrt{23}e^{23} + \frac{17}{1081}\sqrt{1414}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, -\frac{136}{1081}, \frac{85}{1081})$ $+\frac{17}{1081}\sqrt{1946}e^6 \otimes e_7$	{123469, 13568, 235789, 347, 123469, 13568, 235789, 347}
93:69	$0, 0, 0, 0, 0, 0, \frac{17}{1081}\sqrt{1105}e^{13} + \frac{17}{1081}\sqrt{795}e^{24},$ $\frac{34}{1081}\sqrt{33}e^{12} + \frac{34}{1081}\sqrt{155}e^{35}, \frac{17}{1081}\sqrt{885}e^{14} + \frac{17}{1081}\sqrt{23}e^{23} + \frac{17}{1081}\sqrt{1414}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, -\frac{136}{1081}, \frac{85}{1081})$ $+\frac{17}{1081}\sqrt{1946}e^6 \otimes e_7$	{123469, 13568, 235789, 347, 123469, 13568, 235789, 347}
93:69	$0, 0, 0, 0, 0, 0, -\frac{493}{1081}e^{13} + \frac{17}{1081}\sqrt{795}e^{24}, \frac{34}{1081}\sqrt{33}e^{12} + \frac{17}{1081}\sqrt{1326}e^{35},$ $\frac{17}{1081}\sqrt{1061}e^{14} + \frac{85}{1081}\sqrt{23}e^{23} + \frac{34}{1081}\sqrt{133}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, -\frac{136}{1081}, \frac{85}{1081})$ $+\frac{17}{1081}\sqrt{1946}e^4 \otimes e_8$	{1246, 15689, 2578, 479, 1246, 15689, 2578, 479}
93:69	$0, 0, 0, 0, 0, 0, \frac{493}{1081}e^{13} + \frac{17}{1081}\sqrt{795}e^{24}, \frac{34}{1081}\sqrt{33}e^{12} + \frac{17}{1081}\sqrt{1326}e^{35},$ $\frac{17}{1081}\sqrt{1061}e^{14} + \frac{85}{1081}\sqrt{23}e^{23} + \frac{34}{1081}\sqrt{133}e^{56}$	$(-\frac{68}{1081}, -\frac{68}{1081}, \frac{153}{1081}, \frac{153}{1081}, -\frac{289}{1081}, \frac{374}{1081}, \frac{85}{1081}, -\frac{136}{1081}, \frac{85}{1081})$ $+\frac{17}{1081}\sqrt{1946}e^4 \otimes e_8$	{1246, 15689, 2578, 479, 1246, 15689, 2578, 479}
93:69	$0, 0, 0, 0, 0, 0, -\frac{3}{46}\sqrt{78}e^{13} + \frac{3}{23}\sqrt{15}e^{24}, \frac{3}{46}\sqrt{78}e^{12} + \frac{3}{23}\sqrt{69}e^{35},$ $\frac{3}{46}\sqrt{102}e^{14} + \frac{9}{23}e^{23} + \frac{3}{23}\sqrt{21}e^{56}$	$(\frac{6}{23}, \frac{6}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{15}{23}, \frac{15}{23}, -\frac{12}{23}, \frac{3}{23}, \frac{12}{23}, \frac{3}{23})$ $+\frac{3}{46}\sqrt{462}e^5 \otimes e_6$	{12458, 13457, 267, 368, 12458, 13457, 267, 368}
93:69	$0, 0, 0, 0, 0, 0, \frac{3}{46}\sqrt{78}e^{13} + \frac{3}{23}\sqrt{15}e^{24}, \frac{3}{46}\sqrt{78}e^{12} + \frac{3}{23}\sqrt{69}e^{35},$ $\frac{3}{46}\sqrt{102}e^{14} + \frac{9}{23}e^{23} + \frac{3}{23}\sqrt{21}e^{56}$	$(\frac{6}{23}, \frac{6}{23}, -\frac{3}{23}, -\frac{3}{23}, \frac{15}{23}, \frac{15}{23}, -\frac{12}{23}, \frac{3}{23}, \frac{12}{23}, \frac{3}{23})$ $+\frac{3}{46}\sqrt{462}e^5 \otimes e_6$	{12458, 13457, 267, 368, 12458, 13457, 267, 368}
93:70	$0, 0, 0, 0, 0, 0, \frac{1}{91}\sqrt{3198}e^{13} + \frac{6}{91}\sqrt{39}e^{24}, \frac{2}{91}\sqrt{897}e^{12} + \frac{5}{91}\sqrt{78}e^{35},$ $\frac{4}{91}\sqrt{39}e^{14} + \frac{1}{91}\sqrt{3198}e^{25} + \frac{2}{7}\sqrt{6}e^{36}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, 0, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{1}{7})$ $+\frac{9}{91}\sqrt{78}e^6 \otimes e_8$	{134789, 158}
93:70	$0, 0, 0, 0, 0, 0, \frac{1}{1159}\sqrt{4206}e^{13} + \frac{18}{1159}\sqrt{11}e^{24},$ $\frac{1}{1159}\sqrt{1266}e^{12} + \frac{2}{1159}\sqrt{1149}e^{35}, \frac{4}{1159}\sqrt{213}e^{14} + \frac{1}{1159}\sqrt{4206}e^{25} + \frac{2}{1159}\sqrt{78}e^{36}$	$(\frac{10}{1159}, -\frac{16}{1159}, -\frac{29}{1159}, -\frac{3}{1159}, \frac{23}{1159}, \frac{36}{1159}, -\frac{1}{61}, -\frac{6}{1159}, \frac{7}{1159})$ $+\frac{3}{1159}\sqrt{714}e^4 \otimes e_8$	{124, 4679}
93:70	$0, 0, 0, 0, 0, 0, \frac{17}{1215}\sqrt{1326}e^{13} + \frac{17}{1215}\sqrt{314}e^{24},$ $\frac{17}{1215}\sqrt{174}e^{12} + \frac{17}{1215}\sqrt{978}e^{35}, \frac{136}{1215}\sqrt{30}e^{14} + \frac{495}{1215}\sqrt{3}e^{25} + \frac{17}{1215}\sqrt{3210}e^{36}$	$(\frac{238}{1215}, -\frac{68}{405}, -\frac{85}{243}, \frac{17}{1215}, \frac{17}{341}, \frac{136}{243}, -\frac{187}{1215}, \frac{34}{1215}, \frac{17}{81})$ $+\frac{17}{405}\sqrt{698}e^6 \otimes e_7$	{13568, 235789}
93:70	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{165}e^{13} + \frac{1}{10}\sqrt{10}e^{24}, \frac{1}{30}\sqrt{390}e^{12} + \frac{1}{3}\sqrt{6}e^{35},$ $\frac{1}{15}\sqrt{30}e^{14} + \frac{1}{6}\sqrt{6}e^{25} + \frac{1}{15}\sqrt{105}e^{36}$	$(-\frac{1}{15}, \frac{1}{3}, \frac{8}{15}, \frac{2}{15}, -\frac{4}{15}, -\frac{7}{15}, \frac{7}{15}, \frac{4}{15}, \frac{1}{15})$ $+\frac{1}{10}\sqrt{170}e^3 \otimes e_6$	{1245678, 378}
93:70	$0, 0, 0, 0, 0, 0, \frac{4}{91}\sqrt{195}e^{13} + \frac{6}{91}\sqrt{39}e^{24}, \frac{1}{91}\sqrt{2730}e^{12} + \frac{5}{91}\sqrt{78}e^{35},$ $\frac{4}{91}\sqrt{39}e^{14} + \frac{4}{91}\sqrt{195}e^{25} + \frac{1}{91}\sqrt{2262}e^{36}$	$(\frac{1}{7}, -\frac{1}{7}, -\frac{2}{7}, 0, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, 0, \frac{1}{7})$ $+\frac{9}{91}\sqrt{78}e^5 \otimes e_7$	{3478, 589}
93:71	$0, 0, 0, 0, 0, 0, \frac{12}{341}\sqrt{26}e^{13} + \frac{12}{341}\sqrt{113}e^{24}, \frac{12}{341}\sqrt{78}e^{12} + \frac{4}{341}\sqrt{705}e^{35},$ $\frac{12}{341}\sqrt{113}e^{16} + \frac{8}{341}\sqrt{78}e^{23} + \frac{8}{341}\sqrt{195}e^{45}$	$(\frac{2}{341}, \frac{28}{341}, -\frac{24}{341}, -\frac{50}{341}, \frac{54}{341}, \frac{2}{341}, -\frac{2}{31}, \frac{30}{341}, \frac{4}{341})$ $+\frac{24}{341}\sqrt{26}e^6 \otimes e_7$	{123789, 234569}
93:71	$0, 0, 0, 0, 0, 0, \frac{36}{365}\sqrt{26}e^{13} + \frac{12}{365}\sqrt{417}e^{24}, \frac{36}{365}\sqrt{26}e^{12} + \frac{12}{365}\sqrt{417}e^{35},$ $\frac{12}{365}\sqrt{105}e^{16} + \frac{24}{365}\sqrt{78}e^{23} + \frac{24}{365}\sqrt{39}e^{45}$	$(\frac{18}{365}, -\frac{12}{73}, \frac{96}{365}, \frac{174}{365}, -\frac{138}{365}, \frac{18}{365}, \frac{114}{365}, -\frac{42}{365}, \frac{36}{365})$ $+\frac{72}{365}\sqrt{26}e^4 \otimes e_8$	{1589, 4679}
93:72	$0, 0, 0, 0, 0, 0, \frac{8}{13}\sqrt{2}e^{13} + \frac{4}{39}\sqrt{69}e^{24}, \frac{8}{13}\sqrt{2}e^{12} + \frac{4}{39}\sqrt{69}e^{35},$ $\frac{4}{39}\sqrt{69}e^{16} + \frac{8}{13}e^{25} + \frac{8}{13}e^{34}$	$(\frac{14}{39}, -\frac{10}{39}, -\frac{10}{39}, \frac{14}{39}, \frac{14}{39}, -\frac{10}{39}, \frac{4}{39}, \frac{4}{39}, \frac{4}{39})$ $+\frac{8}{13}\sqrt{3}e^1 \otimes e_6$	{178, 2345678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:72	$0, 0, 0, 0, 0, 0, \frac{2}{43}\sqrt{78}e^{13} + \frac{2}{43}\sqrt{69}e^{24}, \frac{2}{43}\sqrt{39}e^{12} + \frac{2}{43}\sqrt{69}e^{35},$ $\frac{2}{43}\sqrt{30}e^{16} + \frac{2}{43}\sqrt{78}e^{25} + \frac{2}{43}\sqrt{39}e^{34}$	$(\frac{7}{43}, -\frac{6}{43}, -\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^4 \otimes e_8$	{1568, 4679}
93:73	$0, 0, 0, 0, 0, 0, \frac{17}{405}\sqrt{314}e^{12}, \frac{272}{1215}\sqrt{3}e^{15} + \frac{136}{1215}\sqrt{30}e^{23} + \frac{17}{1215}\sqrt{3210}e^{46},$ $\frac{17}{1215}\sqrt{174}e^{13} + \frac{17}{1215}\sqrt{1326}e^{24} + \frac{17}{1215}\sqrt{978}e^{56}$	$(-\frac{68}{405}, -\frac{68}{405}, \frac{17}{45}, \frac{17}{45}, \frac{17}{45}, -\frac{68}{405}, -\frac{136}{405}, \frac{17}{81}, \frac{17}{81})$ $+ \frac{17}{405}\sqrt{698}e^4 \otimes e_7$	{123458, 34569}
93:73	$0, 0, 0, 0, 0, 0, \frac{17}{405}\sqrt{314}e^{12}, \frac{17}{405}\sqrt{318}e^{15} + \frac{34}{135}\sqrt{7}e^{23} + \frac{34}{405}\sqrt{31}e^{46},$ $\frac{34}{135}\sqrt{7}e^{13} + \frac{34}{405}\sqrt{318}e^{24} + \frac{34}{405}\sqrt{31}e^{56}$	$(-\frac{68}{405}, -\frac{68}{405}, \frac{17}{45}, \frac{17}{45}, \frac{17}{45}, -\frac{68}{405}, -\frac{136}{405}, \frac{17}{81}, \frac{17}{81})$ $+ \frac{17}{405}\sqrt{698}e^3 \otimes e_7$	{123, 3689}
93:73	$0, 0, 0, 0, 0, 0, \frac{5}{77}\sqrt{22}e^{12}, \frac{1}{77}\sqrt{430}e^{15} + \frac{1}{77}\sqrt{10}e^{23} + \frac{1}{77}\sqrt{410}e^{46},$ $\frac{1}{77}\sqrt{10}e^{13} + \frac{1}{77}\sqrt{430}e^{24} + \frac{1}{77}\sqrt{410}e^{56}$	$(-\frac{5}{77}, -\frac{5}{77}, \frac{8}{77}, \frac{8}{77}, \frac{8}{77}, -\frac{5}{77}, -\frac{10}{77}, \frac{3}{77}, \frac{3}{77})$ $+ \frac{1}{77}\sqrt{710}e^6 \otimes e_7$	{3456, 689}
93:75	$0, 0, 0, 0, 0, 0, \frac{21}{3781}\sqrt{134}e^{13} + \frac{28}{3781}\sqrt{310}e^{24},$ $\frac{70}{3781}\sqrt{43}e^{12} + \frac{315}{3781}\sqrt{2}e^{56}, \frac{1}{199}\sqrt{10}e^{15} + \frac{7}{3781}\sqrt{326}e^{23} + \frac{7}{3781}\sqrt{3898}e^{46}$	$(\frac{42}{3781}, \frac{7}{199}, -\frac{140}{3781}, -\frac{231}{3781}, -\frac{49}{3781}, \frac{224}{3781}, -\frac{98}{3781}, \frac{175}{3781}, -\frac{7}{3781})$ $+ \frac{413}{3781}\sqrt{2}e^5 \otimes e_7$	{1356, 589}
93:75	$0, 0, 0, 0, 0, 0, \frac{53}{4061}\sqrt{30}e^{13} + \frac{53}{4061}\sqrt{1354}e^{24},$ $\frac{265}{4061}\sqrt{110}e^{12} + \frac{53}{4061}\sqrt{1342}e^{56}, \frac{53}{4061}\sqrt{1394}e^{15} + \frac{530}{4061}\sqrt{14}e^{23} + \frac{106}{4061}\sqrt{685}e^{46}$	$(-\frac{53}{4061}, -\frac{742}{4061}, \frac{1325}{4061}, \frac{2014}{4061}, \frac{636}{4061}, -\frac{1431}{4061}, \frac{1272}{4061}, -\frac{795}{4061}, \frac{583}{4061})$ $+ \frac{53}{4061}\sqrt{6902}e^4 \otimes e_8$	{2578, 479}
93:75	$0, 0, 0, 0, 0, 0, \frac{41}{3933}\sqrt{2954}e^{13} + \frac{41}{3933}\sqrt{2102}e^{24},$ $\frac{82}{3933}\sqrt{335}e^{12} + \frac{82}{3933}\sqrt{807}e^{56}, \frac{41}{3933}\sqrt{3178}e^{15} + \frac{328}{3933}\sqrt{46}e^{23} + \frac{82}{3933}\sqrt{5}e^{46}$	$(-\frac{82}{3933}, -\frac{205}{1311}, \frac{328}{1311}, \frac{1517}{3933}, \frac{451}{3933}, -\frac{1148}{3933}, \frac{902}{3933}, -\frac{697}{3933}, \frac{41}{437})$ $+ \frac{41}{3933}\sqrt{6914}e^3 \otimes e_8$	{123, 2689}
93:75	$0, 0, 0, 0, 0, 0, \frac{344}{4045}\sqrt{55}e^{13} + \frac{43}{4045}\sqrt{1698}e^{24},$ $\frac{86}{4045}\sqrt{383}e^{12} + \frac{43}{4045}\sqrt{3106}e^{56}, \frac{43}{4045}\sqrt{1670}e^{15} + \frac{43}{4045}\sqrt{966}e^{23} + \frac{43}{4045}\sqrt{1974}e^{46}$	$(\frac{387}{4045}, \frac{946}{4045}, -\frac{731}{4045}, -\frac{258}{809}, -\frac{172}{4045}, \frac{301}{809}, -\frac{344}{4045}, \frac{1333}{4045}, \frac{43}{809})$ $+ \frac{43}{4045}\sqrt{6998}e^6 \otimes e_7$	{2456, 689}
93:76	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{7}{43}\sqrt{6}e^{24}, -\frac{9}{43}\sqrt{3}e^{12} + \frac{3}{43}\sqrt{23}e^{56},$ $\frac{15}{43}e^{15} + \frac{1}{43}\sqrt{87}e^{26} + \frac{1}{43}\sqrt{174}e^{34}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^5 \otimes e_7$	{126789, 1356, 237, 589, 126789, 1356, 237, 589}
93:76	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{7}{43}\sqrt{6}e^{24}, \frac{9}{43}\sqrt{3}e^{12} + \frac{3}{43}\sqrt{23}e^{56},$ $\frac{15}{43}e^{15} + \frac{1}{43}\sqrt{87}e^{26} + \frac{1}{43}\sqrt{174}e^{34}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^5 \otimes e_7$	{126789, 1356, 237, 589, 126789, 1356, 237, 589}
93:76	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{1}{43}\sqrt{174}e^{24}, -\frac{15}{43}e^{12} + \frac{3}{43}\sqrt{23}e^{56},$ $\frac{9}{43}\sqrt{3}e^{15} + \frac{1}{43}\sqrt{87}e^{26} + \frac{7}{43}\sqrt{6}e^{34}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^3 \otimes e_8$	{123569, 1678, 258, 379, 123569, 1678, 258, 379}
93:76	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{1}{43}\sqrt{174}e^{24}, \frac{15}{43}e^{12} + \frac{3}{43}\sqrt{23}e^{56},$ $\frac{9}{43}\sqrt{3}e^{15} + \frac{1}{43}\sqrt{87}e^{26} + \frac{7}{43}\sqrt{6}e^{34}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^3 \otimes e_8$	{123569, 1678, 258, 379, 123569, 1678, 258, 379}
93:77	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{1}{43}\sqrt{174}e^{24}, \frac{1}{43}\sqrt{138}e^{15} + \frac{7}{43}\sqrt{6}e^{26},$ $-\frac{2}{43}\sqrt{39}e^{12} + \frac{7}{43}\sqrt{6}e^{34} + \frac{1}{43}\sqrt{174}e^{56}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^3 \otimes e_8$	{123569, 124789, 1345, 1678, 23467, 258, 379, 45689, 123569, 124789, 1345, 1678, 23467, 258, 379, 45689}
93:77	$0, 0, 0, 0, 0, 0, -\frac{1}{43}\sqrt{138}e^{13} + \frac{1}{43}\sqrt{174}e^{24}, \frac{1}{43}\sqrt{138}e^{15} + \frac{7}{43}\sqrt{6}e^{26},$ $\frac{1}{43}\sqrt{39}e^{12} + \frac{7}{43}\sqrt{6}e^{34} + \frac{1}{43}\sqrt{174}e^{56}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^3 \otimes e_8$	{123569, 124789, 1345, 1678, 23467, 258, 379, 45689, 123569, 124789, 1345, 1678, 23467, 258, 379, 45689}
93:77	$0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{138}e^{13} + \frac{1}{43}\sqrt{174}e^{24}, \frac{1}{43}\sqrt{138}e^{15} + \frac{7}{43}\sqrt{6}e^{26},$ $\frac{1}{43}\sqrt{39}e^{12} + \frac{7}{43}\sqrt{6}e^{34} + \frac{1}{43}\sqrt{174}e^{56}$	$(-\frac{6}{43}, \frac{7}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{7}{43}, -\frac{6}{43}, \frac{1}{43}, \frac{1}{43}, \frac{1}{43})$ $+ \frac{6}{43}\sqrt{13}e^3 \otimes e_8$	{123569, 124789, 1345, 1678, 23467, 258, 379, 45689, 123569, 124789, 1345, 1678, 23467, 258, 379, 45689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
93:78	$0, 0, 0, 0, 0, 0, -\frac{1}{811}\sqrt{309}e^{13} + \frac{1}{811}\sqrt{1057}e^{24}, \frac{2}{811}\sqrt{174}e^{15} + \frac{20}{811}\sqrt{2}e^{26},$ $\frac{1}{811}\sqrt{903}e^{14} + \frac{1}{811}\sqrt{155}e^{23} + \frac{4}{811}\sqrt{58}e^{56}$	$(\frac{12}{811}, \frac{12}{811}, -\frac{14}{811}, -\frac{14}{811}, -\frac{1}{811}, -\frac{1}{811}, -\frac{2}{811}, \frac{11}{811}, -\frac{2}{811})$ $+ \frac{2}{811}\sqrt{374}e^5 \otimes e_7$	{123459, 1356, 24568, 589, 123459, 1356, 24568, 589}
93:78	$0, 0, 0, 0, 0, 0, \frac{1}{811}\sqrt{309}e^{13} + \frac{1}{811}\sqrt{1057}e^{24}, \frac{2}{811}\sqrt{174}e^{15} + \frac{20}{811}\sqrt{2}e^{26},$ $\frac{1}{811}\sqrt{903}e^{14} + \frac{1}{811}\sqrt{155}e^{23} + \frac{4}{811}\sqrt{58}e^{56}$	$(\frac{12}{811}, \frac{12}{811}, -\frac{14}{811}, -\frac{14}{811}, -\frac{1}{811}, -\frac{1}{811}, -\frac{2}{811}, \frac{11}{811}, -\frac{2}{811})$ $+ \frac{2}{811}\sqrt{374}e^5 \otimes e_7$	{123459, 1356, 24568, 589, 123459, 1356, 24568, 589}
93:78	$0, 0, 0, 0, 0, 0, -\frac{1}{37}\sqrt{391}e^{13} + \frac{1}{37}\sqrt{345}e^{24}, \frac{2}{37}\sqrt{115}e^{15} + \frac{2}{37}\sqrt{115}e^{26},$ $\frac{1}{37}\sqrt{161}e^{14} + \frac{5}{37}\sqrt{23}e^{23} + \frac{4}{37}\sqrt{23}e^{56}$	$(-\frac{10}{37}, -\frac{10}{37}, \frac{16}{37}, \frac{16}{37}, \frac{3}{37}, \frac{3}{37}, \frac{6}{37}, -\frac{7}{37}, \frac{6}{37})$ $+ \frac{8}{37}\sqrt{23}e^3 \otimes e_8$	{124789, 1678, 23467, 379, 124789, 1678, 23467, 379}
93:78	$0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{391}e^{13} + \frac{1}{37}\sqrt{345}e^{24}, \frac{2}{37}\sqrt{115}e^{15} + \frac{2}{37}\sqrt{115}e^{26},$ $\frac{1}{37}\sqrt{161}e^{14} + \frac{5}{37}\sqrt{23}e^{23} + \frac{4}{37}\sqrt{23}e^{56}$	$(-\frac{10}{37}, -\frac{10}{37}, \frac{16}{37}, \frac{16}{37}, \frac{3}{37}, \frac{3}{37}, \frac{6}{37}, -\frac{7}{37}, \frac{6}{37})$ $+ \frac{8}{37}\sqrt{23}e^3 \otimes e_8$	{124789, 1678, 23467, 379, 124789, 1678, 23467, 379}
93:79	$0, 0, 0, 0, 0, 0, -\frac{44}{181}\sqrt{6}e^{13} + \frac{4}{181}\sqrt{210}e^{24}, \frac{4}{181}\sqrt{102}e^{15} + \frac{4}{181}\sqrt{1038}e^{26},$ $\frac{16}{181}\sqrt{39}e^{12} + \frac{44}{181}\sqrt{6}e^{35} + \frac{4}{181}\sqrt{210}e^{46}$	$(\frac{8}{181}, \frac{8}{181}, \frac{60}{181}, \frac{60}{181}, -\frac{44}{181}, -\frac{44}{181}, \frac{68}{181}, -\frac{36}{181}, \frac{16}{181})$ $+ \frac{48}{181}\sqrt{13}e^3 \otimes e_8$	{1345, 1678, 379, 45689, 1345, 1678, 379, 45689}
93:79	$0, 0, 0, 0, 0, 0, \frac{44}{181}\sqrt{6}e^{13} + \frac{4}{181}\sqrt{210}e^{24}, \frac{4}{181}\sqrt{102}e^{15} + \frac{4}{181}\sqrt{1038}e^{26},$ $\frac{16}{181}\sqrt{39}e^{12} + \frac{44}{181}\sqrt{6}e^{35} + \frac{4}{181}\sqrt{210}e^{46}$	$(\frac{8}{181}, \frac{8}{181}, \frac{60}{181}, \frac{60}{181}, -\frac{44}{181}, -\frac{44}{181}, \frac{68}{181}, -\frac{36}{181}, \frac{16}{181})$ $+ \frac{48}{181}\sqrt{13}e^3 \otimes e_8$	{1345, 1678, 379, 45689, 1345, 1678, 379, 45689}
93:81	$0, 0, 0, 0, 0, 0, \frac{18}{109}\sqrt{13}e^{13} + \frac{3}{109}\sqrt{543}e^{24}, \frac{3}{109}\sqrt{543}e^{15} + \frac{9}{109}\sqrt{13}e^{26},$ $\frac{3}{109}\sqrt{39}e^{14} + \frac{3}{109}\sqrt{429}e^{25} + \frac{6}{109}\sqrt{87}e^{36}$	$(-\frac{15}{218}, \frac{12}{109}, \frac{63}{218}, \frac{12}{109}, -\frac{15}{218}, -\frac{27}{109}, \frac{24}{109}, -\frac{15}{109}, \frac{9}{218})$ $+ \frac{9}{109}\sqrt{65}e^4 \otimes e_8$	{134567, 4679}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{8}{49}\sqrt{11}e^{12}, \frac{8}{49}\sqrt{11}e^{18}$	$(\frac{11}{49}, -\frac{5}{49}, \frac{22}{49}, -\frac{3}{7}, -\frac{10}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, \frac{17}{49})$ $+ \frac{24}{49}\sqrt{3}e^1 \otimes e_4 + \frac{32}{49}e^3 \otimes e_5$	{123679, 12369, 1239, 125679, 12569, 1259, 13678, 1368, 138, 15678, 1568, 158, 2346789, 234689, 23489, 2456789, 245689, 24589, 34, 346, 3467, 45, 456, 4567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{7}{136}\sqrt{6}e^{12}, \frac{7}{136}\sqrt{58}e^{18}$	$(\frac{2}{17}, -\frac{33}{136}, \frac{67}{272}, -\frac{31}{272}, \frac{67}{272}, -\frac{31}{272}, \frac{6}{17}, -\frac{1}{8}, -\frac{1}{136})$ $+ \frac{49}{136}e^3 \otimes e_4 + \frac{49}{136}e^5 \otimes e_6 + \frac{7}{136}\sqrt{78}e^1 \otimes e_2 + \frac{7}{136}\sqrt{78}e^7 \otimes e_9$	{13578, 13678, 14678, 23589, 23689, 24689}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{8}{33}\sqrt{11}e^{12}, \frac{8}{33}\sqrt{11}e^{18}$	$(\frac{1}{3}, -\frac{5}{33}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{17}{33})$ $+ \frac{8}{11}\sqrt{3}e^1 \otimes e_3$	{1245679, 124569, 12459, 1249, 129, 145678, 14568, 1458, 148, 18, 23456789, 2345689, 234589, 23489, 2389, 3, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{803}\sqrt{32482}e^{12}, \frac{4}{803}\sqrt{4917}e^{18}$	$(\frac{46}{803}, \frac{112}{803}, -\frac{252}{803}, -\frac{186}{803}, \frac{221}{803}, -\frac{7}{73}, \frac{72}{803}, \frac{158}{803}, \frac{204}{803})$ $+ \frac{298}{803}e^5 \otimes e_6 + \frac{2}{803}\sqrt{38442}e^2 \otimes e_4 + \frac{36}{803}\sqrt{149}e^1 \otimes e_3$	{12579, 1259, 12679, 1269, 14578, 1458, 14678, 1468, 235789, 23589, 236789, 23689, 345, 3457, 346, 3467}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{10}{31}\sqrt{2}e^{12}, \frac{10}{31}\sqrt{2}e^{18}$	$(\frac{2}{31}, \frac{4}{31}, 1, -\frac{19}{31}, \frac{6}{31}, \frac{6}{31}, \frac{6}{31}, \frac{6}{31}, \frac{8}{31})$ $+ \frac{50}{31}e^3 \otimes e_4$	{1235679, 123569, 12359, 1239, 1245679, 124569, 12459, 1249, 135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 2356789, 235689, 23589, 2389, 2456789, 245689, 24589, 2489, 3, 35, 356, 3567, 4, 45, 456, 4567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{93}e^{12}, \frac{4}{55}\sqrt{31}e^{18}$	$(\frac{29}{110}, -\frac{3}{10}, \frac{4}{11}, -\frac{1}{5}, \frac{4}{11}, -\frac{1}{5}, \frac{9}{110}, -\frac{2}{55}, \frac{5}{22})$ $+ \frac{1}{55}\sqrt{1209}e^1 \otimes e_2 + \frac{31}{55}e^3 \otimes e_4 + \frac{31}{55}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14678, 1468, 235789, 23589, 236789, 23689, 246789, 24689}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{327}\sqrt{4917}e^{12}, \frac{1}{327}\sqrt{32482}e^{18}$	$(\frac{23}{327}, -\frac{10}{109}, \frac{55}{109}, -\frac{42}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{7}{327}, \frac{16}{327})$ $+ \frac{1}{327}\sqrt{38442}e^3 \otimes e_9 + \frac{6}{109}\sqrt{149}e^1 \otimes e_4$	{125679, 12569, 1259, 129, 135678, 13568, 1358, 138, 2456789, 245689, 24589, 2489, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{14}{223}\sqrt{6}e^{12}, \frac{14}{223}\sqrt{58}e^{18}$	$(\frac{32}{223}, -\frac{66}{223}, \frac{67}{223}, -\frac{31}{223}, \frac{96}{223}, \frac{18}{223}, \frac{18}{223}, -\frac{34}{223}, -\frac{2}{223})$ $+ \frac{14}{223}\sqrt{78}e^1 \otimes e_2 + \frac{14}{223}\sqrt{78}e^5 \otimes e_9 + \frac{98}{223}e^3 \otimes e_4$	{135678, 13568, 1358, 145678, 14568, 1458, 236789, 23689, 2389, 246789, 24689, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{8}{65}\sqrt{11}e^{12}, \frac{8}{65}\sqrt{11}e^{18}$	$(\frac{11}{65}, -\frac{1}{13}, \frac{22}{65}, -\frac{21}{65}, \frac{22}{65}, -\frac{2}{13}, -\frac{2}{13}, \frac{6}{65}, \frac{17}{65})$ $+\frac{24}{65}\sqrt{3}e^1 \otimes e_4 + \frac{32}{65}e^3 \otimes e_6 + \frac{32}{65}e^5 \otimes e_7$	{12359, 12379, 12679, 1358, 1378, 1678, 234589, 234789, 246789, 345, 347, 467}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{31}e^{12}, \frac{1}{55}\sqrt{93}e^{18}$	$(-\frac{1}{11}, \frac{16}{55}, \frac{4}{11}, -\frac{3}{11}, \frac{4}{11}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{6}{55})$ $+\frac{1}{55}\sqrt{1209}e^2 \otimes e_4 + \frac{31}{55}e^3 \otimes e_6 + \frac{31}{55}e^5 \otimes e_7$	{12359, 12379, 12679, 13458, 13478, 14678, 23589, 23789, 26789, 345, 347, 467}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{327}\sqrt{32482}e^{12}, \frac{2}{327}\sqrt{4917}e^{18}$	$(\frac{23}{327}, \frac{56}{327}, -\frac{42}{109}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, \frac{79}{327}, \frac{34}{109})$ $+\frac{1}{327}\sqrt{38442}e^2 \otimes e_4 + \frac{6}{109}\sqrt{149}e^1 \otimes e_3$	{125679, 12569, 1259, 129, 145678, 14568, 1458, 148, 2356789, 235689, 23589, 2389, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{803}\sqrt{4917}e^{12}, \frac{2}{803}\sqrt{32482}e^{18}$	$(\frac{46}{803}, -\frac{60}{803}, \frac{221}{803}, -\frac{252}{803}, \frac{30}{73}, -\frac{7}{73}, \frac{72}{803}, -\frac{14}{803}, \frac{32}{803})$ $+\frac{298}{803}e^3 \otimes e_6 + \frac{2}{803}\sqrt{38442}e^5 \otimes e_9 + \frac{36}{803}\sqrt{149}e^1 \otimes e_4$	{12379, 1239, 12679, 1269, 13578, 1358, 15678, 1568, 234789, 23489, 246789, 24689, 345, 3457, 456, 4567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{31}e^{12}, \frac{1}{24}\sqrt{93}e^{18}$	$(-\frac{5}{24}, \frac{2}{3}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{11}{24}, \frac{1}{4})$ $+\frac{1}{24}\sqrt{1209}e^2 \otimes e_3$	{1245679, 124569, 12459, 1249, 129, 1345678, 134568, 13458, 1348, 138, 2456789, 245689, 24589, 2489, 289, 3, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{93}e^{12}, \frac{1}{6}\sqrt{31}e^{18}$	$(-\frac{5}{24}, \frac{1}{8}, 1, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{12}, -\frac{7}{24})$ $+\frac{1}{24}\sqrt{1209}e^3 \otimes e_9$	{1245679, 124569, 12459, 1249, 129, 1345678, 134568, 13458, 1348, 138, 2456789, 245689, 24589, 2489, 289, 3, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{24}\sqrt{93}e^{12}, \frac{1}{6}\sqrt{31}e^{18}$	$(\frac{29}{48}, -\frac{11}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, -\frac{1}{12}, \frac{25}{48})$ $+\frac{1}{24}\sqrt{1209}e^1 \otimes e_2$	{1345678, 134568, 13458, 1348, 138, 18, 23456789, 2345689, 234589, 23489, 2389, 289}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{93}e^{12}, \frac{8}{79}\sqrt{31}e^{18}$	$(\frac{29}{79}, -\frac{33}{79}, \frac{40}{79}, -\frac{22}{79}, \frac{9}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{4}{79}, \frac{25}{79})$ $+\frac{2}{79}\sqrt{1209}e^1 \otimes e_2 + \frac{62}{79}e^3 \otimes e_4$	{135678, 13568, 1358, 138, 145678, 14568, 1458, 148, 2356789, 235689, 23589, 2389, 2456789, 245689, 24589, 2489}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{902}e^{12}, \frac{1}{59}\sqrt{902}e^{18}$	$(-\frac{15}{59}, \frac{22}{59}, \frac{33}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{7}{59}, \frac{7}{59}, \frac{7}{59}, -\frac{8}{59})$ $+\frac{2}{59}\sqrt{533}e^2 \otimes e_4 + \frac{2}{59}\sqrt{533}e^3 \otimes e_9$	{125679, 12569, 1259, 129, 1345678, 134568, 13458, 1348, 256789, 25689, 2589, 289, 34, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{93}\sqrt{230}e^{12}, \frac{2}{93}\sqrt{230}e^{18}$	$(-\frac{1}{62}, \frac{17}{186}, -\frac{49}{186}, -\frac{29}{186}, \frac{37}{186}, -\frac{3}{62}, \frac{19}{62}, \frac{7}{93}, \frac{11}{186})$ $+\frac{1}{31}\sqrt{161}e^1 \otimes e_3 + \frac{1}{93}\sqrt{989}e^2 \otimes e_4 + \frac{1}{93}\sqrt{989}e^7 \otimes e_9 + \frac{23}{93}e^5 \otimes e_6$	{1259, 1269, 14578, 14678, 23589, 23689, 3457, 3467}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{902}e^{12}, \frac{2}{159}\sqrt{902}e^{18}$	$(-\frac{10}{53}, \frac{44}{159}, \frac{55}{159}, -\frac{38}{159}, \frac{22}{53}, -\frac{9}{53}, \frac{14}{159}, \frac{14}{159}, -\frac{16}{159})$ $+\frac{4}{159}\sqrt{533}e^2 \otimes e_4 + \frac{4}{159}\sqrt{533}e^5 \otimes e_9 + \frac{82}{159}e^3 \otimes e_6$	{12379, 1239, 12679, 1269, 134578, 13458, 145678, 14568, 23789, 2389, 26789, 2689, 345, 3457, 456, 4567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{5}{28}\sqrt{2}e^{12}, \frac{5}{28}\sqrt{2}e^{18}$	$(\frac{1}{28}, \frac{1}{14}, \frac{31}{56}, \frac{31}{56}, -\frac{19}{56}, -\frac{19}{56}, \frac{3}{28}, \frac{3}{28}, \frac{1}{7})$ $+\frac{25}{28}e^3 \otimes e_5 + \frac{25}{28}e^4 \otimes e_6$	{123479, 12349, 123679, 12369, 125679, 12569, 13478, 1348, 13678, 1368, 15678, 1568, 234789, 23489, 236789, 23689, 256789, 25689, 34, 347, 36, 367, 56, 567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{7}{87}\sqrt{6}e^{12}, \frac{7}{87}\sqrt{58}e^{18}$	$(\frac{16}{87}, -\frac{11}{29}, \frac{16}{29}, \frac{3}{29}, \frac{3}{29}, \frac{3}{29}, -\frac{17}{87}, -\frac{1}{87})$ $+\frac{7}{87}\sqrt{78}e^1 \otimes e_2 + \frac{7}{87}\sqrt{78}e^3 \otimes e_9$	{1345678, 134568, 13458, 1348, 138, 2456789, 245689, 24589, 2489, 289}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{93}e^{12}, \frac{8}{79}\sqrt{31}e^{18}$	$(-\frac{10}{79}, \frac{6}{79}, \frac{40}{79}, \frac{48}{79}, -\frac{22}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{4}{79}, -\frac{14}{79})$ $+\frac{2}{79}\sqrt{1209}e^4 \otimes e_9 + \frac{62}{79}e^3 \otimes e_5$	{123679, 12369, 1239, 125679, 12569, 1259, 134678, 13468, 1348, 145678, 14568, 1458, 236789, 23689, 2389, 256789, 25689, 2589, 34, 346, 3467, 45, 456, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{163}\sqrt{230}e^{12}, \frac{4}{163}\sqrt{230}e^{18}$	$(-\frac{3}{163}, \frac{17}{163}, -\frac{49}{163}, -\frac{29}{163}, \frac{57}{163}, \frac{14}{163}, \frac{14}{163}, \frac{14}{163}, \frac{11}{163})$ $+ \frac{2}{163}\sqrt{989}e^2 \otimes e_4 + \frac{2}{163}\sqrt{989}e^5 \otimes e_9 + \frac{6}{163}\sqrt{161}e^1 \otimes e_3$	{12679, 1269, 129, 145678, 14568, 1458, 236789, 23689, 2389, 345, 3456, 34567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{8}{79}\sqrt{31}e^{12}, \frac{2}{79}\sqrt{93}e^{18}$	$(-\frac{10}{79}, \frac{32}{79}, \frac{40}{79}, -\frac{30}{79}, -\frac{22}{79}, \frac{9}{79}, \frac{9}{79}, \frac{22}{79}, \frac{12}{79})$ $+ \frac{2}{79}\sqrt{1209}e^2 \otimes e_4 + \frac{62}{79}e^3 \otimes e_5$	{123679, 12369, 1239, 125679, 12569, 1259, 134678, 13468, 1348, 145678, 14568, 1458, 236789, 23689, 2389, 256789, 25689, 2589, 34, 346, 3467, 45, 456, 4567}
921:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{93}e^{12}, \frac{4}{55}\sqrt{31}e^{18}$	$(-\frac{1}{11}, \frac{3}{55}, \frac{4}{11}, \frac{4}{11}, \frac{24}{55}, -\frac{1}{5}, -\frac{1}{5}, -\frac{2}{55}, -\frac{7}{55})$ $+ \frac{1}{55}\sqrt{1209}e^5 \otimes e_9 + \frac{31}{55}e^3 \otimes e_6 + \frac{31}{55}e^4 \otimes e_7$	{12349, 12379, 12679, 13458, 13578, 15678, 23489, 23789, 26789, 345, 357, 567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{2}{455}\sqrt{2674}e^{28}$	$(-\frac{57}{455}, \frac{1}{13}, \frac{2}{13}, \frac{2}{7}, \frac{204}{455}, -\frac{121}{455}, -\frac{61}{455}, -\frac{22}{455}, \frac{1}{35})$ $+ \frac{191}{455}e^4 \otimes e_7 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_6 + \frac{1}{455}\sqrt{64749}e^5 \otimes e_9$	{123458, 123578, 1345, 1357, 2349, 2379, 3489, 3789}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13} + \frac{3}{401}\sqrt{2233}e^{28}$	$(\frac{88}{401}, -\frac{115}{802}, -\frac{115}{401}, \frac{275}{401}, \frac{176}{802}, -\frac{131}{401}, \frac{36}{401}, \frac{61}{802}, -\frac{27}{401})$ $+ \frac{14}{401}\sqrt{290}e^5 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^1 \otimes e_3 + \frac{203}{401}e^4 \otimes e_6$	{12479, 1249, 12679, 1269, 14789, 1489, 16789, 1689}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{699}\sqrt{759}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{22}{699}\sqrt{230}e^{28}$	$(-\frac{8}{233}, -\frac{6}{233}, -\frac{12}{233}, \frac{111}{233}, \frac{446}{699}, -\frac{173}{699}, \frac{80}{699}, -\frac{14}{233}, -\frac{20}{233})$ $+ \frac{2}{699}\sqrt{92598}e^5 \otimes e_9 + \frac{506}{699}e^4 \otimes e_6$	{1234578, 123458, 1235678, 123568, 1345, 13457, 1356, 13567, 23479, 2349, 23679, 2369, 34789, 3489, 36789, 3689}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{6}{739}\sqrt{1918}e^{12}, \frac{2}{739}\sqrt{1370}e^{13} + \frac{4}{739}\sqrt{6987}e^{28}$	$(-\frac{50}{739}, \frac{38}{739}, \frac{76}{739}, \frac{203}{739}, \frac{300}{739}, -\frac{236}{739}, -\frac{71}{739}, -\frac{12}{739}, \frac{26}{739})$ $+ \frac{274}{739}e^4 \otimes e_7 + \frac{2}{739}\sqrt{41374}e^2 \otimes e_6 + \frac{6}{739}\sqrt{3562}e^5 \otimes e_9$	{12349, 12379, 134689, 136789, 23458, 23578, 3456, 3567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{39730}e^{12}, \frac{2}{731}\sqrt{19043}e^{13} + \frac{28}{731}\sqrt{137}e^{28}$	$(\frac{200}{731}, -\frac{37}{731}, -\frac{74}{731}, -\frac{311}{731}, \frac{69}{731}, \frac{69}{731}, \frac{163}{731}, \frac{126}{731})$ $+ \frac{2}{731}\sqrt{38634}e^1 \otimes e_3 + \frac{4}{731}\sqrt{13015}e^2 \otimes e_4$	{235678, 23568, 2358, 238, 34, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{570}e^{12}, \frac{2}{139}\sqrt{190}e^{13} + \frac{2}{139}\sqrt{570}e^{28}$	$(\frac{11}{139}, \frac{1}{139}, \frac{2}{139}, -\frac{27}{139}, \frac{51}{139}, -\frac{37}{139}, \frac{12}{139}, \frac{12}{139}, \frac{13}{139})$ $+ \frac{14}{139}\sqrt{19}e^2 \otimes e_6 + \frac{2}{139}\sqrt{741}e^1 \otimes e_4 + \frac{2}{139}\sqrt{741}e^5 \otimes e_9$	{1279, 129, 16789, 1689, 24578, 2458, 456, 4567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3277}\sqrt{319838}e^{12}, \frac{46}{3277}\sqrt{170}e^{13} + \frac{4}{3277}\sqrt{75463}e^{28}$	$(\frac{450}{3277}, -\frac{166}{3277}, -\frac{332}{3277}, -\frac{948}{3277}, \frac{629}{3277}, -\frac{153}{3277}, \frac{900}{3277}, \frac{284}{3277}, \frac{118}{3277})$ $+ \frac{2}{3277}\sqrt{258842}e^7 \otimes e_9 + \frac{2}{3277}\sqrt{463726}e^2 \otimes e_4 + \frac{40}{3277}\sqrt{782}e^1 \otimes e_3 + \frac{782}{3277}e^5 \otimes e_6$	{23578, 23678, 3457, 3467}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{361}\sqrt{103}e^{12}, \frac{1}{361}\sqrt{23690}e^{13} + \frac{4}{361}\sqrt{103}e^{28}$	$(\frac{16}{361}, \frac{10}{361}, \frac{20}{361}, -\frac{87}{361}, \frac{139}{361}, -\frac{83}{361}, \frac{26}{361}, \frac{36}{361})$ $+ \frac{1}{361}\sqrt{22454}e^3 \otimes e_6 + \frac{1}{361}\sqrt{23278}e^1 \otimes e_4 + \frac{1}{361}\sqrt{23278}e^5 \otimes e_9$	{12679, 1269, 16789, 1689, 245678, 24568, 456, 4567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{58}e^{12}, \frac{2}{65}\sqrt{29}e^{13} + \frac{2}{65}\sqrt{58}e^{28}$	$(\frac{4}{65}, \frac{3}{65}, \frac{6}{65}, \frac{36}{65}, \frac{36}{65}, -\frac{22}{65}, -\frac{22}{65}, \frac{7}{65}, \frac{2}{13})$ $+ \frac{58}{65}e^4 \otimes e_6 + \frac{58}{65}e^5 \otimes e_7$	{12459, 12479, 12679, 14589, 14789, 16789, 2458, 2478, 2678, 45, 47, 67}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{13}e^{12}, \frac{12}{137}\sqrt{37}e^{13} + \frac{12}{137}\sqrt{13}e^{28}$	$(\frac{26}{137}, -\frac{11}{137}, -\frac{22}{137}, \frac{76}{137}, -\frac{46}{137}, \frac{15}{137}, \frac{15}{137}, \frac{15}{137}, \frac{4}{137})$ $+ \frac{12}{137}\sqrt{61}e^1 \otimes e_5 + \frac{12}{137}\sqrt{61}e^4 \otimes e_9$	{12679, 1269, 129, 16789, 1689, 189, 245678, 24568, 2458, 45, 456, 4567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{58}e^{12}, \frac{1}{18}\sqrt{29}e^{13} + \frac{1}{18}\sqrt{58}e^{28}$	$(\frac{1}{9}, \frac{1}{12}, \frac{1}{6}, 1, -\frac{11}{18}, \frac{7}{36}, \frac{7}{36}, \frac{7}{36}, \frac{5}{18})$ $+ \frac{29}{18}e^4 \otimes e_5$	{124679, 12469, 1249, 125679, 12569, 1259, 146789, 14689, 1489, 156789, 15689, 1589, 24678, 2468, 248, 25678, 2568, 258, 4, 46, 467, 5, 56, 567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{22}{699}\sqrt{230}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{4}{699}\sqrt{759}e^{28}$	$(\frac{220}{699}, -\frac{6}{233}, -\frac{12}{233}, \frac{111}{233}, -\frac{286}{699}, -\frac{173}{699}, \frac{80}{699}, \frac{202}{699}, \frac{184}{699})$ $+ \frac{2}{699}\sqrt{92598}e^1 \otimes e_5 + \frac{506}{699}e^4 \otimes e_6$	{1234, 12347, 1236, 12367, 13478, 1348, 13678, 1368, 2345789, 234589, 2356789, 235689, 34579, 3459, 35679, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{8}{53}\sqrt{15}e^{12}, \frac{16}{53}\sqrt{2}e^{13} + \frac{8}{53}\sqrt{15}e^{28}$	$(-\frac{1}{53}, \frac{7}{53}, \frac{14}{53}, \frac{22}{53}, -\frac{25}{53}, -\frac{10}{53}, \frac{6}{53}, \frac{6}{53}, \frac{13}{53})$ $+\frac{32}{53}e^4 \otimes e_6 + \frac{8}{53}\sqrt{31}e^2 \otimes e_5$	{123479, 12349, 123679, 12369, 1345789, 134589, 1356789, 135689, 23478, 2348, 23678, 2368, 345, 3457, 356, 3567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{2674}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{1}{455}\sqrt{10887}e^{28}$	$(\frac{8}{65}, \frac{1}{13}, \frac{2}{13}, -\frac{27}{91}, \frac{2}{7}, -\frac{121}{455}, -\frac{61}{455}, \frac{1}{5}, \frac{18}{65})$ $+\frac{191}{455}e^5 \otimes e_7 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_6 + \frac{1}{455}\sqrt{64749}e^1 \otimes e_4$	{1235, 1237, 1358, 1378, 234589, 234789, 3459, 3479}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{739}\sqrt{6987}e^{12}, \frac{2}{739}\sqrt{1370}e^{13} + \frac{6}{739}\sqrt{1918}e^{28}$	$(\frac{106}{739}, \frac{38}{739}, \frac{76}{739}, -\frac{168}{739}, \frac{203}{739}, -\frac{236}{739}, -\frac{71}{739}, \frac{144}{739}, \frac{182}{739})$ $+\frac{274}{739}e^5 \otimes e_7 + \frac{2}{739}\sqrt{41374}e^2 \otimes e_6 + \frac{6}{739}\sqrt{3562}e^1 \otimes e_4$	{12359, 12379, 135689, 136789, 23458, 23478, 3456, 3467}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{301}\sqrt{6987}e^{12}, \frac{1}{301}\sqrt{1370}e^{13} + \frac{3}{301}\sqrt{1918}e^{28}$	$(\frac{53}{301}, \frac{19}{301}, \frac{38}{301}, -\frac{12}{43}, -\frac{118}{301}, \frac{33}{301}, \frac{33}{301}, \frac{72}{301}, \frac{13}{43})$ $+\frac{1}{301}\sqrt{41374}e^2 \otimes e_5 + \frac{3}{301}\sqrt{3562}e^1 \otimes e_4$	{123679, 12369, 1239, 1356789, 135689, 13589, 234678, 23468, 2348, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{434}\sqrt{39730}e^{12}, \frac{1}{434}\sqrt{19043}e^{13} + \frac{1}{31}\sqrt{137}e^{28}$	$(\frac{50}{217}, -\frac{37}{868}, -\frac{37}{434}, -\frac{311}{868}, \frac{103}{434}, -\frac{17}{217}, \frac{69}{868}, \frac{163}{868}, \frac{9}{62})$ $+\frac{137}{434}e^5 \otimes e_6 + \frac{1}{217}\sqrt{13015}e^2 \otimes e_4 + \frac{1}{434}\sqrt{38634}e^1 \otimes e_3$	{23578, 2358, 23678, 2368, 345, 3457, 346, 3467}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{11}{223}\sqrt{230}e^{12}, \frac{2}{223}\sqrt{7337}e^{13} + \frac{2}{223}\sqrt{759}e^{28}$	$(\frac{110}{223}, -\frac{9}{223}, -\frac{18}{223}, -\frac{143}{223}, \frac{40}{223}, \frac{40}{223}, \frac{40}{223}, \frac{101}{223}, \frac{92}{223})$ $+\frac{1}{223}\sqrt{92598}e^1 \otimes e_4$	{123, 1235, 12356, 123567, 135678, 13568, 1358, 138, 23456789, 2345689, 234589, 23489, 345679, 34569, 3459, 349}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{25}\sqrt{7}e^{12}, \frac{2}{25}\sqrt{7}e^{13} + \frac{2}{25}\sqrt{7}e^{28}$	$(\frac{8}{25}, -\frac{3}{25}, -\frac{6}{25}, \frac{9}{25}, \frac{9}{25}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{2}{25})$ $+\frac{14}{25}e^4 \otimes e_6 + \frac{14}{25}e^5 \otimes e_7 + \frac{6}{25}\sqrt{7}e^1 \otimes e_3$	{23458, 23478, 23678, 345, 347, 367}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{759}e^{12}, \frac{2}{223}\sqrt{7337}e^{13} + \frac{11}{223}\sqrt{230}e^{28}$	$(-\frac{12}{223}, -\frac{9}{223}, -\frac{18}{223}, 1, \frac{40}{223}, \frac{40}{223}, \frac{40}{223}, -\frac{21}{223}, -\frac{30}{223})$ $+\frac{1}{223}\sqrt{92598}e^4 \otimes e_9$	{12345678, 1234568, 123458, 12348, 134, 1345, 13456, 134567, 235679, 23569, 2359, 239, 356789, 35689, 3589, 389}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{910}e^{12}, \frac{3}{71}\sqrt{546}e^{13} + \frac{1}{71}\sqrt{910}e^{28}$	$(-\frac{10}{71}, \frac{22}{71}, \frac{44}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{12}{71}, \frac{12}{71}, \frac{34}{71})$ $+\frac{1}{71}\sqrt{10738}e^3 \otimes e_4$	{12456789, 1245689, 124589, 12489, 145679, 14569, 1459, 149, 24, 245, 2456, 24567, 45678, 4568, 458, 48}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{10374}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{2}{377}\sqrt{5453}e^{28}$	$(-\frac{49}{377}, \frac{3}{29}, \frac{6}{29}, -\frac{94}{377}, \frac{162}{377}, -\frac{55}{377}, \frac{33}{377}, -\frac{10}{377}, \frac{1}{13})$ $+\frac{1}{377}\sqrt{33782}e^2 \otimes e_4 + \frac{1}{377}\sqrt{34314}e^5 \otimes e_9 + \frac{4}{377}\sqrt{1463}e^3 \otimes e_6$	{12679, 1269, 146789, 14689, 25678, 2568, 456, 4567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{4466}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{6}{599}\sqrt{2233}e^{28}$	$(\frac{176}{599}, -\frac{115}{599}, -\frac{230}{599}, \frac{352}{599}, \frac{72}{599}, \frac{72}{599}, \frac{72}{599}, \frac{61}{599}, -\frac{54}{599})$ $+\frac{28}{599}\sqrt{290}e^4 \otimes e_9 + \frac{2}{599}\sqrt{50141}e^1 \otimes e_3$	{125679, 12569, 1259, 129, 156789, 15689, 1589, 189}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13} + \frac{1}{9}\sqrt{7}e^{28}$	$(\frac{4}{9}, -\frac{1}{6}, -\frac{1}{3}, \frac{1}{2}, -\frac{5}{18}, \frac{1}{9}, \frac{1}{9}, \frac{5}{18}, \frac{1}{9})$ $+\frac{1}{3}\sqrt{7}e^1 \otimes e_3 + \frac{7}{9}e^4 \otimes e_5$	{234678, 23468, 2348, 235678, 23568, 2358, 34, 346, 3467, 35, 356, 3567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13} + \frac{2}{11}\sqrt{7}e^{28}$	$(\frac{8}{11}, -\frac{3}{11}, -\frac{6}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{5}{11}, \frac{2}{11})$ $+\frac{6}{11}\sqrt{7}e^1 \otimes e_3$	{2345678, 234568, 23458, 2348, 238, 3, 34, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{3}{301}\sqrt{1918}e^{12}, \frac{1}{301}\sqrt{1370}e^{13} + \frac{2}{301}\sqrt{6987}e^{28}$	$(-\frac{25}{301}, \frac{19}{301}, \frac{38}{301}, \frac{150}{301}, -\frac{118}{301}, \frac{33}{301}, \frac{33}{301}, -\frac{6}{301}, \frac{13}{301})$ $+\frac{1}{301}\sqrt{41374}e^2 \otimes e_5 + \frac{3}{301}\sqrt{3562}e^4 \otimes e_9$	{123679, 12369, 1239, 1356789, 135689, 13589, 234678, 23468, 2348, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{8}{37}\sqrt{15}e^{12}, \frac{16}{37}\sqrt{2}e^{13} + \frac{8}{37}\sqrt{15}e^{28}$	$(-\frac{1}{37}, \frac{7}{37}, \frac{14}{37}, -\frac{25}{37}, \frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{6}{37}, \frac{13}{37})$ $+\frac{8}{37}\sqrt{31}e^2 \otimes e_4$	{1235679, 123569, 12359, 1239, 13456789, 1345689, 134589, 13489, 235678, 23568, 2358, 238, 34, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, 0, \frac{12}{173}\sqrt{13}e^{12}, \frac{12}{173}\sqrt{37}e^{13} + \frac{12}{173}\sqrt{13}e^{28}$	$(\frac{26}{173}, -\frac{11}{173}, -\frac{22}{173}, \frac{51}{173}, \frac{76}{173}, -\frac{46}{173}, -\frac{21}{173}, \frac{15}{173}, \frac{4}{173})$ $+\frac{12}{173}\sqrt{61}e^1 \otimes e_6 + \frac{12}{173}\sqrt{61}e^5 \otimes e_9 + \frac{72}{173}e^4 \otimes e_7$	{1249, 1279, 1489, 1789, 24568, 25678, 456, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:2	$0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{4}{719}\sqrt{2674}e^{28}$	$(-\frac{114}{719}, \frac{70}{719}, \frac{140}{719}, \frac{408}{719}, -\frac{242}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{44}{719}, \frac{26}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_5 + \frac{2}{719}\sqrt{64749}e^4 \otimes e_9$	{1234678, 123468, 12348, 134, 1346, 13467, 23679, 2369, 239, 36789, 3689, 389}
921:2	$0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{2674}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{2}{719}\sqrt{10887}e^{28}$	$(\frac{112}{719}, \frac{70}{719}, \frac{140}{719}, -\frac{270}{719}, -\frac{242}{719}, \frac{69}{719}, \frac{69}{719}, \frac{182}{719}, \frac{252}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_5 + \frac{2}{719}\sqrt{64749}e^1 \otimes e_4$	{123, 1236, 12367, 13678, 1368, 138, 2346789, 234689, 23489, 34679, 3469, 349}
921:2	$0, 0, 0, 0, 0, 0, \frac{1}{1443}\sqrt{319838}e^{12}, \frac{23}{1443}\sqrt{170}e^{13} + \frac{2}{1443}\sqrt{75463}e^{28}$	$(\frac{75}{481}, -\frac{83}{1443}, -\frac{166}{1443}, -\frac{158}{481}, \frac{150}{481}, \frac{119}{481}, \frac{119}{481}, \frac{142}{1443}, \frac{59}{1443})$ $+ \frac{1}{1443}\sqrt{258842}e^5 \otimes e_9 + \frac{1}{1443}\sqrt{463726}e^2 \otimes e_4 + \frac{20}{1443}\sqrt{782}e^1 \otimes e_3$	{235678, 23568, 2358, 345, 3456, 34567}
921:2	$0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13} + \frac{2}{233}\sqrt{910}e^{28}$	$(-\frac{20}{233}, \frac{44}{233}, \frac{88}{233}, \frac{115}{233}, -\frac{94}{233}, -\frac{67}{233}, \frac{24}{233}, \frac{24}{233}, \frac{68}{233})$ $+ \frac{2}{233}e^4 \otimes e_6 + \frac{2}{233}\sqrt{10738}e^3 \otimes e_5$	{1245789, 124589, 1256789, 125689, 14579, 1459, 15679, 1569, 245, 2457, 256, 2567, 4578, 458, 5678, 568}
921:3	$0, 0, 0, 0, 0, 0, \frac{3}{160}\sqrt{59}e^{12}, \frac{1}{160}\sqrt{3422}e^{18} + \frac{1}{160}\sqrt{3422}e^{34}$	$(\frac{3}{20}, -\frac{7}{32}, \frac{57}{320}, -\frac{31}{320}, \frac{9}{20}, -\frac{61}{320}, \frac{27}{320}, -\frac{11}{160}, \frac{13}{160})$ $+ \frac{1}{80}\sqrt{1298}e^1 \otimes e_2 + \frac{1}{80}\sqrt{1298}e^3 \otimes e_6 + \frac{3}{160}\sqrt{767}e^5 \otimes e_9$	{134578, 13458, 15678, 1568, 23789, 2389, 246789, 24689}
921:3	$0, 0, 0, 0, 0, 0, \frac{7}{51}\sqrt{34}e^{12}, \frac{14}{17}e^{18} + \frac{7}{51}\sqrt{6}e^{34}$	$(\frac{16}{51}, -\frac{8}{51}, \frac{4}{17}, \frac{4}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{8}{17}, \frac{8}{17})$ $+ \frac{14}{51}\sqrt{21}e^1 \otimes e_5$	{1234679, 123469, 12349, 12679, 1269, 129, 13678, 1368, 138, 23456789, 2345689, 234589, 256789, 25689, 2589, 35, 356, 3567}
921:3	$0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{34}e^{12}, \frac{84}{151}e^{18} + \frac{14}{151}\sqrt{6}e^{34}$	$(\frac{32}{151}, -\frac{16}{151}, \frac{73}{151}, -\frac{25}{151}, -\frac{66}{151}, \frac{18}{151}, \frac{18}{151}, \frac{16}{151}, \frac{48}{151})$ $+ \frac{28}{151}\sqrt{21}e^1 \otimes e_5 + \frac{98}{151}e^3 \otimes e_4$	{13678, 1368, 138, 14678, 1468, 148, 35, 356, 3567, 45, 456, 4567}
921:3	$0, 0, 0, 0, 0, 0, \frac{7}{100}\sqrt{34}e^{12}, \frac{21}{50}e^{18} + \frac{7}{100}\sqrt{6}e^{34}$	$(\frac{4}{25}, -\frac{2}{25}, \frac{73}{200}, -\frac{1}{8}, \frac{67}{200}, -\frac{33}{100}, -\frac{31}{200}, \frac{2}{25}, \frac{6}{25})$ $+ \frac{49}{100}e^3 \otimes e_4 + \frac{49}{100}e^5 \otimes e_7 + \frac{7}{50}\sqrt{21}e^1 \otimes e_6$	{1358, 1378, 1458, 1478, 356, 367, 456, 467}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{9510}e^{12}, \frac{1}{247}\sqrt{55158}e^{18} + \frac{2}{247}\sqrt{2219}e^{34}$	$(\frac{145}{247}, -\frac{172}{247}, \frac{59}{247}, \frac{59}{247}, \frac{45}{247}, \frac{45}{247}, \frac{45}{247}, -\frac{27}{247}, \frac{118}{247})$ $+ \frac{2}{247}\sqrt{32017}e^1 \otimes e_2$	{135678, 13568, 1358, 138, 23456789, 2345689, 234589, 23489, 256789, 25689, 2589, 289}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{1695}e^{12}, \frac{3}{208}\sqrt{1582}e^{18} + \frac{1}{208}\sqrt{4294}e^{34}$	$(\frac{5}{26}, -\frac{73}{208}, \frac{7}{416}, \frac{7}{416}, \frac{15}{26}, \frac{45}{416}, \frac{45}{416}, -\frac{33}{208}, \frac{7}{208})$ $+ \frac{1}{208}\sqrt{22035}e^5 \otimes e_9 + \frac{1}{52}\sqrt{1243}e^1 \otimes e_2$	{1345678, 134568, 13458, 15678, 1568, 158, 236789, 23689, 2389}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{321}\sqrt{1695}e^{12}, \frac{1}{107}\sqrt{1582}e^{18} + \frac{1}{321}\sqrt{4294}e^{34}$	$(\frac{40}{321}, -\frac{73}{321}, \frac{20}{107}, -\frac{53}{321}, \frac{79}{321}, -\frac{34}{321}, \frac{40}{107}, -\frac{11}{107}, \frac{7}{321})$ $+ \frac{113}{321}e^3 \otimes e_4 + \frac{113}{321}e^5 \otimes e_6 + \frac{1}{321}\sqrt{22035}e^7 \otimes e_9 + \frac{4}{321}\sqrt{1243}e^1 \otimes e_2$	{23589, 23689, 24589, 24689}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{42}e^{12}, \frac{1}{7}\sqrt{6}e^{18} + \frac{1}{7}\sqrt{6}e^{34}$	$(-\frac{4}{21}, \frac{2}{3}, \frac{1}{7}, \frac{1}{7}, -\frac{13}{21}, \frac{4}{21}, \frac{4}{21}, \frac{10}{21}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{102}e^2 \otimes e_5$	{123679, 12369, 1239, 1345678, 134568, 13458, 15678, 1568, 158, 236789, 23689, 2389, 345, 3456, 34567, 5, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{208}\sqrt{1695}e^{12}, \frac{1}{208}\sqrt{4294}e^{18} + \frac{3}{208}\sqrt{1582}e^{34}$	$(-\frac{1}{52}, \frac{15}{208}, \frac{95}{416}, -\frac{81}{416}, \frac{15}{26}, -\frac{131}{416}, \frac{45}{416}, \frac{11}{208}, \frac{7}{208})$ $+ \frac{1}{208}\sqrt{22035}e^5 \otimes e_9 + \frac{1}{52}\sqrt{1243}e^3 \otimes e_6$	{12379, 1239, 124679, 12469, 134578, 13458, 15678, 1568, 23789, 2389, 246789, 24689, 345, 3457, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{18} + \frac{1}{16}\sqrt{6}e^{34}$	$(-\frac{1}{12}, \frac{7}{24}, \frac{11}{32}, -\frac{7}{32}, \frac{35}{96}, -\frac{13}{48}, -\frac{19}{96}, \frac{5}{24}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^2 \otimes e_6 + \frac{9}{16}e^3 \otimes e_4 + \frac{9}{16}e^5 \otimes e_7$	{12359, 12379, 12459, 12479, 23589, 23789, 24589, 24789}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{529}\sqrt{1695}e^{12}, \frac{6}{529}\sqrt{1582}e^{18} + \frac{2}{529}\sqrt{4294}e^{34}$	$(\frac{80}{529}, -\frac{146}{529}, \frac{120}{529}, -\frac{106}{529}, \frac{240}{529}, \frac{45}{529}, \frac{45}{529}, -\frac{66}{529}, \frac{14}{529})$ $+ \frac{226}{529}e^3 \otimes e_4 + \frac{2}{529}\sqrt{22035}e^5 \otimes e_9 + \frac{8}{529}\sqrt{1243}e^1 \otimes e_2$	{236789, 23689, 2389, 246789, 24689, 2489}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{2}{811}\sqrt{55158}e^{18} + \frac{4}{811}\sqrt{2219}e^{34}$	$(\frac{290}{811}, -\frac{344}{811}, \frac{435}{811}, -\frac{199}{811}, \frac{90}{811}, \frac{90}{811}, \frac{90}{811}, -\frac{54}{811}, \frac{236}{811})$ $+ \frac{4}{811}\sqrt{32017}e^1 \otimes e_2 + \frac{634}{811}e^3 \otimes e_4$	{135678, 13568, 1358, 138, 145678, 14568, 1458, 148}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{34}e^{12}, \frac{84}{151}e^{18} + \frac{14}{151}\sqrt{6}e^{34}$	$(\frac{32}{151}, -\frac{16}{151}, \frac{24}{151}, \frac{24}{151}, \frac{67}{151}, -\frac{66}{151}, -\frac{31}{151}, \frac{16}{151}, \frac{48}{151})$ $+ \frac{28}{151}\sqrt{21}e^1 \otimes e_6 + \frac{98}{151}e^5 \otimes e_7$	{123459, 123479, 1259, 1279, 1358, 1378, 2345689, 2346789, 25689, 26789, 356, 367}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1634}e^{12}, \frac{2}{97}\sqrt{645}e^{18} + \frac{1}{97}\sqrt{602}e^{34}$	$(\frac{8}{97}, -\frac{8}{97}, \frac{4}{97}, \frac{4}{97}, \frac{51}{97}, -\frac{35}{97}, \frac{11}{97}, 0, \frac{8}{97})$ $+ \frac{2}{97}\sqrt{989}e^1 \otimes e_6 + \frac{4}{97}\sqrt{215}e^5 \otimes e_9$	{12379, 1239, 134578, 13458, 1578, 158, 236789, 23689, 3456, 34567, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{14}{55}e^{12}, \frac{7}{55}\sqrt{3}e^{18} + \frac{7}{55}\sqrt{3}e^{34}$	$(\frac{1}{22}, \frac{4}{55}, \frac{29}{55}, -\frac{4}{11}, \frac{61}{110}, -\frac{37}{110}, \frac{6}{55}, \frac{13}{110}, \frac{9}{55})$ $+ \frac{49}{55}e^3 \otimes e_4 + \frac{49}{55}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 124579, 12459, 124679, 12469, 235789, 23589, 236789, 23689, 245789, 24589, 246789, 24689}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{6}{17}e^{18} + \frac{6}{17}e^{34}$	$(-\frac{1}{17}, \frac{1}{17}, \frac{4}{17}, -\frac{5}{17}, \frac{6}{17}, \frac{8}{17}, -\frac{3}{17}, 0, -\frac{1}{17})$ $+ \frac{3}{17}\sqrt{13}e^6 \otimes e_9 + \frac{9}{17}e^3 \otimes e_4 + \frac{9}{17}e^5 \otimes e_7$	{12359, 12379, 12459, 12479, 23589, 23789, 24589, 24789}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{11}{223}\sqrt{14}e^{12}, \frac{22}{223}\sqrt{10}e^{18} + \frac{99}{223}\sqrt{2}e^{34}$	$(\frac{34}{223}, \frac{14}{223}, \frac{41}{223}, \frac{41}{223}, -\frac{80}{223}, -\frac{80}{223}, \frac{21}{223}, \frac{48}{223}, \frac{82}{223})$ $+ \frac{11}{223}\sqrt{202}e^3 \otimes e_5 + \frac{11}{223}\sqrt{202}e^4 \otimes e_6$	{1234, 12347, 1256, 12567, 136789, 13689, 23478, 2348, 25678, 2568, 3679, 369}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{6}{229}\sqrt{85}e^{12}, \frac{8}{229}\sqrt{170}e^{18} + \frac{8}{229}\sqrt{170}e^{34}$	$(\frac{87}{229}, -\frac{83}{229}, \frac{96}{229}, -\frac{5}{229}, \frac{74}{229}, \frac{27}{229}, \frac{27}{229}, \frac{4}{229}, \frac{91}{229})$ $+ \frac{2}{229}\sqrt{8585}e^1 \otimes e_2 + \frac{2}{229}\sqrt{8585}e^3 \otimes e_5$	{134678, 13468, 1348, 15678, 1568, 158, 236789, 23689, 2389, 2456789, 245689, 24589}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1889}\sqrt{36022}e^{12}, \frac{6}{1889}\sqrt{5478}e^{18} + \frac{15}{1889}\sqrt{2822}e^{34}$	$(-\frac{180}{1889}, \frac{434}{1889}, \frac{330}{1889}, -\frac{256}{1889}, \frac{821}{1889}, -\frac{313}{1889}, -\frac{417}{1889}, \frac{254}{1889}, \frac{74}{1889})$ $+ \frac{6}{1889}\sqrt{20003}e^2 \otimes e_6 + \frac{6}{1889}\sqrt{24319}e^3 \otimes e_7 + \frac{6}{1889}\sqrt{27058}e^5 \otimes e_9$	{1239, 12479, 134568, 15678, 2389, 24789, 3456, 567}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{3}{157}\sqrt{85}e^{12}, \frac{4}{157}\sqrt{170}e^{18} + \frac{4}{157}\sqrt{170}e^{34}$	$(\frac{87}{157}, -\frac{83}{157}, \frac{48}{157}, -\frac{5}{157}, \frac{56}{157}, -\frac{37}{157}, -\frac{29}{157}, \frac{2}{157}, \frac{91}{157})$ $+ \frac{1}{157}\sqrt{8585}e^1 \otimes e_2 + \frac{1}{157}\sqrt{8585}e^3 \otimes e_6 + \frac{1}{157}e^5 \otimes e_7$	{13458, 13478, 1568, 1678, 23589, 23789, 245689, 246789}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{189}\sqrt{9170}e^{12}, \frac{1}{189}\sqrt{1310}e^{18} + \frac{1}{189}\sqrt{9694}e^{34}$	$(-\frac{8}{189}, \frac{10}{189}, \frac{23}{189}, -\frac{5}{189}, -\frac{61}{189}, -\frac{62}{189}, \frac{22}{189}, \frac{62}{189}, \frac{2}{189})$ $+ \frac{1}{189}\sqrt{21746}e^2 \otimes e_5 + \frac{2}{189}\sqrt{5502}e^3 \otimes e_6$	{1234, 12347, 126, 1267, 135789, 13589, 1456789, 145689, 23478, 2348, 2678, 268, 3579, 359, 45679, 4569}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{14}{61}\sqrt{3}e^{18} + \frac{14}{61}\sqrt{3}e^{34}$	$(\frac{5}{61}, \frac{8}{61}, \frac{58}{61}, -\frac{40}{61}, \frac{12}{61}, \frac{12}{61}, \frac{12}{61}, \frac{13}{61}, \frac{18}{61})$ $+ \frac{98}{61}e^3 \otimes e_4$	{1235679, 123569, 12359, 1239, 1245679, 124569, 12459, 1249, 2356789, 235689, 23589, 2389, 2456789, 245689, 24589, 2489}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1913}\sqrt{54398}e^{12}, \frac{6}{1913}\sqrt{13098}e^{18} + \frac{3}{1913}\sqrt{10030}e^{34}$	$(-\frac{18}{1913}, \frac{204}{1913}, \frac{84}{1913}, \frac{84}{1913}, \frac{699}{1913}, -\frac{549}{1913}, -\frac{327}{1913}, \frac{186}{1913}, \frac{168}{1913})$ $+ \frac{12}{1913}\sqrt{3658}e^2 \otimes e_7 + \frac{12}{1913}\sqrt{15635}e^5 \otimes e_9 + \frac{6}{1913}\sqrt{21181}e^1 \otimes e_6$	{1239, 134578, 1578, 23689, 34567, 567}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{529}\sqrt{1695}e^{12}, \frac{6}{529}\sqrt{1582}e^{18} + \frac{2}{529}\sqrt{4294}e^{34}$	$(\frac{80}{529}, -\frac{146}{529}, \frac{7}{529}, \frac{7}{529}, \frac{158}{529}, \frac{240}{529}, -\frac{68}{529}, -\frac{66}{529}, \frac{14}{529})$ $+ \frac{226}{529}e^5 \otimes e_7 + \frac{2}{529}\sqrt{22035}e^6 \otimes e_9 + \frac{8}{529}\sqrt{1243}e^1 \otimes e_2$	{134568, 134678, 1568, 1678, 23589, 23789}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{6501}e^{12}, \frac{1}{313}\sqrt{21670}e^{18} + \frac{1}{313}\sqrt{13002}e^{34}$	$(\frac{77}{313}, -\frac{27}{313}, \frac{121}{313}, \frac{6}{313}, -\frac{120}{313}, -\frac{76}{313}, \frac{39}{313}, \frac{50}{313}, \frac{127}{313})$ $+ \frac{1}{313}\sqrt{45310}e^3 \otimes e_6 + \frac{1}{313}\sqrt{62646}e^1 \otimes e_5$	{12379, 1239, 124679, 12469, 13478, 1348, 1678, 168, 235789, 23589, 2456789, 245689, 345, 3457, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{564}\sqrt{9510}e^{12}, \frac{1}{564}\sqrt{55158}e^{18} + \frac{1}{282}\sqrt{2219}e^{34}$	$(\frac{145}{564}, -\frac{43}{141}, \frac{145}{376}, -\frac{199}{1128}, \frac{407}{1128}, -\frac{227}{1128}, \frac{15}{188}, -\frac{9}{188}, \frac{59}{282})$ $+ \frac{1}{282}\sqrt{32017}e^1 \otimes e_2 + \frac{317}{564}e^3 \otimes e_4 + \frac{317}{564}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 14578, 1458, 14678, 1468}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{4}{811}\sqrt{2219}e^{18} + \frac{2}{811}\sqrt{55158}e^{34}$	$(\frac{88}{811}, \frac{60}{811}, \frac{320}{811}, -\frac{84}{811}, \frac{407}{811}, -\frac{314}{811}, -\frac{227}{811}, \frac{148}{811}, \frac{236}{811})$ $+ \frac{4}{811}\sqrt{32017}e^3 \otimes e_6 + \frac{634}{811}e^5 \otimes e_7$	{12345, 12347, 1256, 1267, 13589, 13789, 145689, 146789, 23458, 23478, 2568, 2678, 359, 379, 4569, 4679}
921:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{2}{811}\sqrt{55158}e^{18} + \frac{4}{811}\sqrt{2219}e^{34}$	$(\frac{290}{811}, -\frac{344}{811}, \frac{118}{811}, \frac{118}{811}, \frac{407}{811}, -\frac{227}{811}, \frac{90}{811}, -\frac{54}{811}, \frac{236}{811})$ $+ \frac{4}{811}\sqrt{32017}e^1 \otimes e_2 + \frac{634}{811}e^5 \otimes e_6$	{13578, 1358, 13678, 1368, 2345789, 234589, 2346789, 234689, 25789, 2589, 26789, 2689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:3	$0, 0, 0, 0, 0, 0, \frac{7}{1681}\sqrt{5214}e^{12}, \frac{14}{1681}\sqrt{1870}e^{18} + \frac{21}{1681}\sqrt{638}e^{34}$	$(\frac{134}{1681}, -\frac{84}{1681}, \frac{292}{1681}, -\frac{108}{1681}, \frac{723}{1681}, -\frac{405}{1681}, -\frac{247}{1681}, \frac{50}{1681}, \frac{184}{1681})$ $+ \frac{140}{1681}\sqrt{22}e^3 \otimes e_7 + \frac{14}{1681}\sqrt{3135}e^5 \otimes e_9 + \frac{42}{1681}\sqrt{341}e^1 \otimes e_6$	{1239, 12479, 13458, 1578, 23689, 246789, 3456, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{491}\sqrt{7854}e^{12}, \frac{2}{491}\sqrt{6545}e^{18} + \frac{2}{491}\sqrt{6545}e^{34}$	$(-\frac{75}{491}, \frac{132}{491}, \frac{110}{491}, -\frac{128}{491}, \frac{220}{491}, -\frac{106}{491}, \frac{46}{491}, \frac{57}{491}, -\frac{18}{491})$ $+ \frac{238}{491}e^3 \otimes e_4 + \frac{2}{491}\sqrt{20706}e^5 \otimes e_9 + \frac{4}{491}\sqrt{4522}e^2 \otimes e_6$	{12379, 1239, 12479, 1249, 23789, 2389, 24789, 2489}
921:3	$0, 0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{14}{61}\sqrt{3}e^{18} + \frac{14}{61}\sqrt{3}e^{34}$	$(\frac{5}{61}, \frac{8}{61}, \frac{9}{61}, \frac{9}{61}, 1, -\frac{37}{61}, \frac{12}{61}, \frac{13}{61}, \frac{18}{61})$ $+ \frac{98}{61}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 134578, 13458, 134678, 13468, 1578, 158, 1678, 168, 235789, 23589, 236789, 23689, 345, 3457, 346, 3467, 5, 57, 6, 67}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{9510}e^{12}, \frac{2}{247}\sqrt{2219}e^{18} + \frac{1}{247}\sqrt{55158}e^{34}$	$(\frac{44}{247}, \frac{30}{247}, \frac{160}{247}, -\frac{42}{247}, -\frac{157}{247}, \frac{45}{247}, \frac{45}{247}, \frac{74}{247}, \frac{118}{247})$ $+ \frac{2}{247}\sqrt{32017}e^3 \otimes e_5$	{1234, 12346, 123467, 125, 1256, 12567, 136789, 13689, 1389, 1456789, 145689, 14589, 234678, 23468, 2348, 25678, 2568, 258, 3679, 369, 39, 45679, 4569, 459}
921:3	$0, 0, 0, 0, 0, 0, \frac{6}{25}e^{12}, \frac{12}{25}e^{18} + \frac{12}{25}e^{34}$	$(-\frac{2}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{2}{5}, \frac{16}{25}, \frac{3}{25}, \frac{3}{25}, 0, -\frac{2}{25})$ $+ \frac{18}{25}e^3 \otimes e_4 + \frac{6}{25}\sqrt{13}e^5 \otimes e_9$	{123679, 12369, 1239, 124679, 12469, 1249, 236789, 23689, 2389, 246789, 24689, 2489}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{237}\sqrt{1634}e^{12}, \frac{4}{237}\sqrt{645}e^{18} + \frac{2}{237}\sqrt{602}e^{34}$	$(\frac{16}{237}, -\frac{16}{237}, \frac{17}{79}, -\frac{35}{237}, \frac{34}{79}, -\frac{70}{237}, \frac{22}{237}, 0, \frac{16}{237})$ $+ \frac{4}{237}\sqrt{989}e^1 \otimes e_6 + \frac{8}{237}e^3 \otimes e_4 + \frac{8}{237}\sqrt{215}e^5 \otimes e_9$	{12379, 1239, 12479, 1249, 236789, 23689, 246789, 24689}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{42}e^{12}, \frac{2}{23}\sqrt{6}e^{18} + \frac{2}{23}\sqrt{6}e^{34}$	$(-\frac{8}{69}, \frac{28}{69}, \frac{2}{23}, \frac{2}{23}, \frac{35}{69}, -\frac{26}{69}, -\frac{19}{69}, \frac{20}{69}, \frac{4}{23})$ $+ \frac{18}{23}e^5 \otimes e_7 + \frac{2}{23}\sqrt{102}e^2 \otimes e_6$	{12359, 12379, 134568, 134678, 1568, 1678, 23589, 23789, 3456, 3467, 56, 67}
921:3	$0, 0, 0, 0, 0, 0, \frac{6}{25}e^{12}, \frac{12}{25}e^{18} + \frac{12}{25}e^{34}$	$(-\frac{2}{25}, \frac{2}{25}, -\frac{1}{25}, -\frac{1}{25}, \frac{12}{25}, \frac{16}{25}, -\frac{6}{25}, 0, -\frac{2}{25})$ $+ \frac{18}{25}e^5 \otimes e_7 + \frac{6}{25}\sqrt{13}e^6 \otimes e_9$	{12359, 12379, 134568, 134678, 1568, 1678, 23589, 23789, 3456, 3467, 56, 67}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{186}\sqrt{7854}e^{12}, \frac{1}{186}\sqrt{6545}e^{18} + \frac{1}{186}\sqrt{6545}e^{34}$	$(-\frac{25}{124}, \frac{11}{31}, -\frac{3}{124}, -\frac{3}{124}, \frac{55}{93}, -\frac{53}{186}, \frac{23}{186}, \frac{19}{124}, -\frac{3}{62})$ $+ \frac{1}{186}\sqrt{20706}e^5 \otimes e_9 + \frac{1}{93}\sqrt{4522}e^2 \otimes e_6$	{12379, 1239, 1345678, 134568, 15678, 1568, 23789, 2389, 3456, 34567, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{3}{8}e^{12}, \frac{3}{4}e^{18} + \frac{3}{4}e^{34}$	$(-\frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, -\frac{1}{16}, 1, \frac{3}{16}, \frac{3}{16}, 0, -\frac{1}{8})$ $+ \frac{3}{8}\sqrt{13}e^5 \otimes e_9$	{123679, 12369, 1239, 1345678, 134568, 13458, 15678, 1568, 158, 236789, 23689, 2389, 345, 3456, 34567, 5, 56, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{144}\sqrt{287}e^{12}, \frac{1}{144}\sqrt{246}e^{18} + \frac{1}{144}\sqrt{3854}e^{34}$	$(\frac{1}{36}, \frac{7}{144}, \frac{5}{96}, \frac{5}{96}, \frac{7}{18}, -\frac{67}{288}, -\frac{67}{288}, \frac{11}{144}, \frac{5}{48})$ $+ \frac{1}{144}\sqrt{3731}e^5 \otimes e_9 + \frac{1}{72}\sqrt{902}e^3 \otimes e_6 + \frac{1}{72}\sqrt{902}e^4 \otimes e_7$	{12379, 13458, 15678, 23789, 345, 567}
921:3	$0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{42}e^{12}, \frac{2}{23}\sqrt{6}e^{18} + \frac{2}{23}\sqrt{6}e^{34}$	$(-\frac{8}{69}, \frac{28}{69}, \frac{11}{23}, -\frac{7}{23}, \frac{26}{69}, \frac{8}{69}, \frac{8}{69}, \frac{20}{69}, \frac{4}{23})$ $+ \frac{18}{23}e^3 \otimes e_4 + \frac{2}{23}\sqrt{102}e^2 \otimes e_5$	{123679, 12369, 1239, 124679, 12469, 1249, 236789, 23689, 2389, 246789, 24689, 2489}
921:3	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{133}e^{12}, \frac{1}{14}\sqrt{38}e^{18} + \frac{1}{42}\sqrt{57}e^{34}$	$(\frac{5}{84}, \frac{1}{6}, \frac{1}{7}, \frac{1}{7}, -\frac{11}{28}, -\frac{2}{7}, \frac{3}{28}, \frac{19}{84}, \frac{2}{7})$ $+ \frac{1}{42}\sqrt{627}e^2 \otimes e_6 + \frac{1}{42}\sqrt{798}e^1 \otimes e_5$	{123479, 12349, 1279, 129, 13678, 1368, 2345789, 234589, 25789, 2589, 356, 3567}
921:4	$0, 0, 0, 0, 0, 0, \frac{8}{443}\sqrt{913}e^{12}, \frac{2}{443}\sqrt{7055}e^{13} + \frac{2}{443}\sqrt{9794}e^{28} + \frac{2}{443}\sqrt{249}e^{45}$	$(\frac{122}{443}, -\frac{22}{443}, -\frac{44}{443}, \frac{39}{443}, \frac{39}{443}, -\frac{188}{443}, \frac{42}{443}, \frac{100}{443}, \frac{78}{443})$ $+ \frac{2}{443}\sqrt{19090}e^2 \otimes e_6 + \frac{6}{443}\sqrt{1577}e^1 \otimes e_3$	{234578, 23458, 2378, 238, 3456, 34567, 36, 367}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{22}\sqrt{170}e^{12}, \frac{1}{22}\sqrt{51}e^{13} + \frac{1}{22}\sqrt{34}e^{28} + \frac{1}{22}\sqrt{34}e^{45}$	$(\frac{5}{11}, -\frac{7}{44}, -\frac{7}{22}, \frac{3}{44}, \frac{3}{44}, \frac{1}{2}, -\frac{3}{11}, \frac{13}{44}, \frac{3}{22})$ $+ \frac{17}{22}e^6 \otimes e_7 + \frac{1}{22}\sqrt{374}e^1 \otimes e_3$	{234568, 234578, 2368, 2378, 3456, 3457, 36, 37}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{1457}\sqrt{644502}e^{12}, \frac{2}{1457}\sqrt{3295}e^{13} + \frac{2}{1457}\sqrt{104122}e^{28} + \frac{10}{1457}\sqrt{659}e^{45}$	$(\frac{246}{1457}, \frac{83}{1457}, \frac{166}{1457}, \frac{206}{1457}, \frac{206}{1457}, -\frac{413}{1457}, -\frac{576}{1457}, \frac{7}{31}, \frac{412}{1457})$ $+ \frac{1}{1457}\sqrt{749942}e^1 \otimes e_6 + \frac{2}{1457}\sqrt{241194}e^2 \otimes e_7$	{123459, 1239, 1345789, 13789, 23468, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:4	$0, 0, 0, 0, 0, 0, \frac{3}{1403}\sqrt{6186}e^{12},$ $\frac{1}{1403}\sqrt{476322}e^{13} + \frac{14}{1403}\sqrt{1031}e^{28} + \frac{1}{1403}\sqrt{439206}e^{45}$	$(-\frac{54}{1403}, \frac{275}{1403}, \frac{550}{1403}, \frac{559}{1403}, -\frac{63}{1403}, -\frac{481}{1403}, -\frac{472}{1403}, \frac{221}{1403}, \frac{496}{1403})$ $+\frac{1}{1403}\sqrt{1301122}e^3 \otimes e_6 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_7$	{124689, 1256789, 1469, 15679, 2456, 267, 4568, 678}
921:4	$0, 0, 0, 0, 0, 0, \frac{84}{3337}\sqrt{235}e^{12},$ $\frac{42}{3337}\sqrt{291}e^{13} + \frac{126}{3337}\sqrt{94}e^{28} + \frac{42}{3337}\sqrt{179}e^{45}$	$(\frac{546}{3337}, -\frac{168}{3337}, -\frac{336}{3337}, \frac{105}{3337}, \frac{105}{3337}, \frac{1092}{3337}, -\frac{1050}{3337}, \frac{378}{3337}, \frac{210}{3337})$ $+\frac{42}{3337}\sqrt{1334}e^2 \otimes e_7 + \frac{42}{3337}\sqrt{911}e^1 \otimes e_3 + \frac{84}{3337}\sqrt{202}e^6 \otimes e_9$	{234568, 2368, 34567, 367}
921:4	$0, 0, 0, 0, 0, 0, \frac{50}{479}\sqrt{6}e^{12},$ $\frac{10}{479}\sqrt{235}e^{13} + \frac{40}{479}\sqrt{10}e^{28} + \frac{10}{479}\sqrt{930}e^{45}$	$(\frac{60}{479}, \frac{45}{479}, \frac{90}{479}, \frac{75}{479}, \frac{75}{479}, \frac{175}{479}, \frac{175}{479}, \frac{105}{479}, \frac{150}{479})$ $+\frac{10}{479}\sqrt{1090}e^4 \otimes e_6 + \frac{10}{479}\sqrt{1090}e^5 \otimes e_7$	{1245, 1267, 1458, 1678, 24789, 479}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{259}\sqrt{3103}e^{12},$ $\frac{8}{259}\sqrt{214}e^{13} + \frac{2}{259}\sqrt{749}e^{28} + \frac{2}{259}\sqrt{749}e^{45}$	$(-\frac{29}{259}, \frac{3}{37}, \frac{6}{37}, \frac{60}{259}, -\frac{47}{259}, \frac{120}{259}, -\frac{65}{259}, -\frac{8}{259}, \frac{13}{259})$ $+\frac{107}{259}e^4 \otimes e_5 + \frac{1}{259}\sqrt{21293}e^6 \otimes e_9 + \frac{3}{259}\sqrt{2033}e^3 \otimes e_7$	{2349, 2359, 3489, 3589}
921:4	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{53}e^{12}, \frac{2}{119}\sqrt{53}e^{13} + \frac{2}{119}\sqrt{159}e^{28} + \frac{2}{119}\sqrt{159}e^{45}$	$(\frac{8}{119}, \frac{6}{119}, \frac{12}{119}, \frac{9}{17}, -\frac{43}{119}, \frac{66}{119}, -\frac{40}{119}, \frac{2}{17}, \frac{20}{119})$ $+\frac{106}{119}e^4 \otimes e_5 + \frac{106}{119}e^6 \otimes e_7$	{12469, 12479, 12569, 12579, 14689, 14789, 15689, 15789}
921:4	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{170}e^{12}, \frac{2}{27}\sqrt{51}e^{13} + \frac{2}{27}\sqrt{34}e^{28} + \frac{2}{27}\sqrt{34}e^{45}$	$(\frac{20}{27}, -\frac{7}{27}, -\frac{14}{27}, \frac{1}{9}, \frac{1}{9}, \frac{5}{27}, \frac{5}{27}, \frac{13}{27}, \frac{2}{9})$ $+\frac{2}{27}\sqrt{374}e^1 \otimes e_3$	{2345678, 234568, 23458, 23678, 2368, 238, 3, 345, 3456, 34567, 36, 367}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{398}\sqrt{15834}e^{12},$ $\frac{7}{199}\sqrt{203}e^{13} + \frac{1}{398}\sqrt{13195}e^{28} + \frac{1}{398}\sqrt{13195}e^{45}$	$(\frac{39}{199}, -\frac{53}{796}, -\frac{53}{398}, \frac{25}{796}, \frac{25}{796}, \frac{114}{199}, -\frac{125}{398}, \frac{103}{796}, \frac{25}{398})$ $+\frac{1}{199}\sqrt{17255}e^1 \otimes e_7 + \frac{1}{398}\sqrt{74298}e^6 \otimes e_9$	{1249, 1489, 245678, 2678, 4567, 67}
921:4	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{53}e^{12}, \frac{1}{33}\sqrt{53}e^{13} + \frac{1}{33}\sqrt{159}e^{28} + \frac{1}{33}\sqrt{159}e^{45}$	$(\frac{4}{33}, \frac{1}{11}, \frac{2}{11}, \frac{5}{33}, \frac{5}{33}, 1, -\frac{20}{33}, \frac{7}{33}, \frac{10}{33})$ $+\frac{53}{33}e^6 \otimes e_7$	{12469, 12479, 14689, 14789, 24568, 24578, 268, 278, 456, 457, 6, 7}
921:4	$0, 0, 0, 0, 0, 0, \frac{2}{999}\sqrt{15834}e^{12},$ $\frac{28}{999}\sqrt{203}e^{13} + \frac{2}{999}\sqrt{13195}e^{28} + \frac{2}{999}\sqrt{13195}e^{45}$	$(\frac{52}{333}, -\frac{53}{999}, -\frac{106}{999}, \frac{76}{333}, -\frac{178}{999}, \frac{152}{333}, \frac{250}{999}, \frac{103}{999}, \frac{50}{999})$ $+\frac{2}{999}\sqrt{74298}e^6 \otimes e_9 + \frac{406}{999}e^4 \otimes e_5 + \frac{4}{999}\sqrt{17255}e^1 \otimes e_7$	{1249, 1259, 1489, 1589}
921:4	$0, 0, 0, 0, 0, 0, \frac{20}{363}\sqrt{15}e^{12}, \frac{10}{121}\sqrt{34}e^{13} + \frac{10}{363}\sqrt{57}e^{28} + \frac{10}{363}\sqrt{57}e^{45}$	$(\frac{40}{363}, \frac{25}{363}, \frac{50}{363}, -\frac{10}{121}, \frac{40}{121}, -\frac{10}{33}, -\frac{100}{363}, \frac{65}{363}, \frac{30}{121})$ $+\frac{10}{121}\sqrt{42}e^3 \otimes e_7 + \frac{20}{363}\sqrt{102}e^1 \otimes e_6 + \frac{50}{121}e^5 \otimes e_4$	{1234, 1235, 1348, 1358}
921:4	$0, 0, 0, 0, 0, 0, \frac{18}{1673}\sqrt{110}e^{12},$ $\frac{18}{1673}\sqrt{671}e^{13} + \frac{198}{1673}\sqrt{6}e^{28} + \frac{99}{1673}\sqrt{86}e^{45}$	$(\frac{40}{1673}, \frac{30}{1673}, \frac{60}{1673}, \frac{391}{1673}, -\frac{291}{1673}, \frac{991}{1673}, -\frac{500}{1673}, \frac{10}{239}, \frac{100}{1673})$ $+\frac{198}{1673}\sqrt{31}e^4 \otimes e_7 + \frac{9}{1673}\sqrt{17798}e^6 \otimes e_9$	{1249, 12579, 1489, 15789, 24568, 2678, 456, 67}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{35266}e^{12},$ $\frac{1}{353}\sqrt{2290}e^{13} + \frac{2}{353}\sqrt{9389}e^{28} + \frac{1}{353}\sqrt{6870}e^{45}$	$(-\frac{40}{353}, \frac{77}{353}, \frac{154}{353}, \frac{57}{353}, \frac{57}{353}, -\frac{152}{353}, -\frac{75}{353}, \frac{37}{353}, \frac{114}{353})$ $+\frac{2}{353}\sqrt{22213}e^2 \otimes e_6 + \frac{3}{353}\sqrt{5954}e^3 \otimes e_7$	{124579, 1279, 1456789, 16789, 2478, 467}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{50794}e^{12},$ $\frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{193}\sqrt{12815}e^{28} + \frac{1}{386}\sqrt{1398}e^{45}$	$(-\frac{4}{193}, \frac{101}{772}, \frac{101}{386}, \frac{163}{386}, -\frac{35}{193}, -\frac{772}{772}, \frac{87}{772}, \frac{85}{772}, \frac{93}{386})$ $+\frac{1}{193}\sqrt{26329}e^2 \otimes e_6 + \frac{233}{386}e^4 \otimes e_5$	{23478, 2348, 23578, 2358, 346, 3467, 356, 3567}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{1445}\sqrt{448602}e^{12},$ $\frac{4}{1445}\sqrt{18449}e^{13} + \frac{1}{1445}\sqrt{137882}e^{28} + \frac{1}{1445}\sqrt{444718}e^{45}$	$(\frac{462}{1445}, \frac{8}{1445}, \frac{16}{1445}, \frac{539}{1445}, -\frac{61}{1445}, -\frac{509}{1445}, -\frac{432}{1445}, \frac{94}{289}, \frac{478}{1445})$ $+\frac{1}{1445}\sqrt{1314734}e^1 \otimes e_6 + \frac{4}{289}\sqrt{2913}e^4 \otimes e_7$	{12345, 1237, 13458, 1378, 234689, 2356789, 3469, 35679}
921:4	$0, 0, 0, 0, 0, 0, \frac{2}{419}\sqrt{286}e^{12},$ $\frac{4}{419}\sqrt{2002}e^{13} + \frac{22}{419}\sqrt{65}e^{28} + \frac{22}{419}\sqrt{65}e^{45}$	$(-\frac{4}{419}, -\frac{3}{419}, -\frac{6}{419}, \frac{138}{419}, -\frac{148}{419}, \frac{276}{419}, \frac{50}{419}, -\frac{7}{419}, -\frac{10}{419})$ $+\frac{286}{419}e^4 \otimes e_5 + \frac{2}{419}\sqrt{32318}e^6 \otimes e_9$	{23479, 2349, 23579, 2359, 34789, 3489, 35789, 3589}
921:4	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{815}e^{12},$ $\frac{1}{128}\sqrt{16626}e^{13} + \frac{1}{128}\sqrt{2445}e^{28} + \frac{1}{128}\sqrt{2445}e^{45}$	$(-\frac{5}{32}, \frac{77}{256}, \frac{77}{128}, \frac{57}{256}, \frac{57}{256}, -\frac{43}{64}, \frac{21}{128}, \frac{37}{256}, \frac{57}{128})$ $+\frac{1}{128}\sqrt{34882}e^3 \otimes e_6$	{12456789, 1245689, 126789, 12689, 145679, 14569, 1679, 169, 246, 2467, 4678, 468}
921:4	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{35266}e^{12},$ $\frac{2}{935}\sqrt{2290}e^{13} + \frac{4}{935}\sqrt{9389}e^{28} + \frac{2}{935}\sqrt{6870}e^{45}$	$(-\frac{16}{187}, \frac{14}{85}, \frac{28}{85}, -\frac{23}{187}, \frac{343}{935}, -\frac{304}{935}, -\frac{30}{187}, \frac{74}{935}, \frac{228}{935})$ $+\frac{458}{935}e^5 \otimes e_4 + \frac{4}{935}\sqrt{22213}e^2 \otimes e_6 + \frac{6}{935}\sqrt{5954}e^3 \otimes e_7$	{2478, 2578, 467, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{12}{131}\sqrt{37}e^{12}, \frac{2}{131}\sqrt{851}e^{13} + \frac{2}{131}\sqrt{1110}e^{28} + \frac{6}{131}\sqrt{74}e^{45}$	$(\frac{2}{131}, \frac{19}{131}, \frac{38}{131}, \frac{43}{131}, -\frac{3}{131}, -\frac{55}{131}, -\frac{31}{131}, \frac{21}{131}, \frac{40}{131})$ $+ \frac{2}{131}\sqrt{1702}e^4 \otimes e_7 + \frac{2}{131}\sqrt{2590}e^2 \otimes e_6$	{12349, 123579, 134689, 1356789, 23458, 2378, 3456, 367}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{181}\sqrt{25190}e^{12}, \frac{1}{181}\sqrt{2519}e^{13} + \frac{3}{362}\sqrt{2519}e^{28} + \frac{3}{362}\sqrt{2519}e^{45}$	$(\frac{55}{181}, -\frac{119}{724}, -\frac{119}{362}, -\frac{9}{724}, -\frac{9}{724}, \frac{110}{724}, \frac{45}{181}, \frac{101}{362}, -\frac{9}{362})$ $+ \frac{1}{181}\sqrt{16259}e^1 \otimes e_3 + \frac{5}{362}\sqrt{3206}e^6 \otimes e_9$	{12479, 1249, 14789, 1489}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{1122}e^{12}, \frac{2}{15}\sqrt{34}e^{13} + \frac{1}{45}\sqrt{102}e^{28} + \frac{1}{45}\sqrt{102}e^{45}$	$(\frac{22}{45}, -\frac{2}{45}, -\frac{4}{45}, \frac{1}{5}, \frac{1}{5}, -\frac{29}{45}, \frac{8}{45}, \frac{4}{9}, \frac{2}{5})$ $+ \frac{1}{45}\sqrt{3774}e^1 \otimes e_6$	{1234, 12347, 13478, 1348, 23456789, 2345689, 236789, 23689, 345679, 34569, 3679, 369}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{53}e^{12}, \frac{1}{33}\sqrt{53}e^{13} + \frac{1}{33}\sqrt{159}e^{28} + \frac{1}{33}\sqrt{159}e^{45}$	$(\frac{4}{33}, \frac{1}{11}, \frac{2}{11}, \frac{21}{22}, -\frac{43}{66}, \frac{13}{66}, \frac{13}{66}, \frac{7}{33}, \frac{10}{33})$ $+ \frac{53}{33}e^4 \otimes e_5$	{124679, 12469, 1249, 125679, 12569, 1259, 146789, 14689, 1489, 156789, 15689, 1589}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{1122}e^{12}, \frac{4}{47}\sqrt{34}e^{13} + \frac{2}{141}\sqrt{102}e^{28} + \frac{2}{141}\sqrt{102}e^{45}$	$(\frac{44}{141}, -\frac{4}{141}, -\frac{8}{141}, \frac{23}{47}, -\frac{11}{47}, -\frac{58}{141}, \frac{16}{141}, \frac{40}{141}, \frac{12}{47})$ $+ \frac{2}{141}\sqrt{3774}e^1 \otimes e_6 + \frac{34}{47}e^4 \otimes e_5$	{1234, 12347, 1235, 12357, 13478, 1348, 13578, 1358}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{138}\sqrt{286}e^{12}, \frac{1}{69}\sqrt{2002}e^{13} + \frac{11}{138}\sqrt{65}e^{28} + \frac{11}{138}\sqrt{65}e^{45}$	$(-\frac{1}{69}, -\frac{1}{92}, -\frac{1}{46}, -\frac{5}{276}, -\frac{5}{276}, 1, \frac{25}{138}, -\frac{7}{276}, -\frac{5}{138})$ $+ \frac{1}{138}\sqrt{32318}e^6 \otimes e_9$	{12345678, 1234568, 123678, 12368, 13456, 134567, 136, 1367, 23479, 2349, 34789, 3489}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{50794}e^{12}, \frac{2}{539}\sqrt{26795}e^{13} + \frac{4}{539}\sqrt{12815}e^{28} + \frac{2}{539}\sqrt{1398}e^{45}$	$(-\frac{16}{539}, \frac{101}{539}, \frac{202}{539}, \frac{93}{539}, \frac{93}{539}, -\frac{365}{539}, \frac{87}{539}, \frac{85}{539}, \frac{186}{539})$ $+ \frac{4}{539}\sqrt{26329}e^2 \otimes e_6$	{1234579, 123459, 12379, 1239, 13456789, 1345689, 136789, 13689, 23478, 2348, 346, 3467}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{411}\sqrt{3103}e^{12}, \frac{16}{411}\sqrt{214}e^{13} + \frac{4}{411}\sqrt{749}e^{28} + \frac{4}{411}\sqrt{749}e^{45}$	$(-\frac{58}{411}, \frac{14}{137}, \frac{28}{137}, \frac{13}{411}, \frac{13}{411}, \frac{80}{411}, -\frac{130}{411}, -\frac{16}{411}, \frac{26}{411})$ $+ \frac{2}{137}\sqrt{2033}e^3 \otimes e_7 + \frac{2}{411}\sqrt{21293}e^6 \otimes e_9$	{1234568, 12368, 13456, 136, 2349, 3489}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1401}\sqrt{90374}e^{12}, \frac{4}{1401}\sqrt{3095}e^{13} + \frac{1}{1401}\sqrt{550910}e^{28} + \frac{2}{1401}\sqrt{32807}e^{45}$	$(-\frac{94}{1401}, \frac{33}{467}, \frac{66}{467}, \frac{52}{1401}, \frac{52}{1401}, \frac{241}{467}, -\frac{520}{1401}, \frac{5}{1401}, \frac{104}{1401})$ $+ \frac{1}{1401}\sqrt{699470}e^6 \otimes e_9 + \frac{2}{1401}\sqrt{209841}e^2 \otimes e_7$	{12349, 134789, 234568, 2368, 34567, 367}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{953}\sqrt{25190}e^{12}, \frac{4}{953}\sqrt{2519}e^{13} + \frac{6}{953}\sqrt{2519}e^{28} + \frac{6}{953}\sqrt{2519}e^{45}$	$(\frac{220}{953}, -\frac{119}{953}, -\frac{238}{953}, \frac{220}{953}, -\frac{238}{953}, \frac{440}{953}, \frac{90}{953}, \frac{101}{953}, -\frac{18}{953})$ $+ \frac{10}{953}\sqrt{3206}e^6 \otimes e_9 + \frac{458}{953}e^4 \otimes e_5 + \frac{4}{953}\sqrt{16259}e^1 \otimes e_3$	{12479, 1249, 12579, 1259, 14789, 1489, 15789, 1589}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{953}\sqrt{25190}e^{12}, \frac{4}{953}\sqrt{2519}e^{13} + \frac{6}{953}\sqrt{2519}e^{28} + \frac{6}{953}\sqrt{2519}e^{45}$	$(\frac{220}{953}, -\frac{119}{953}, -\frac{238}{953}, \frac{220}{953}, -\frac{238}{953}, \frac{440}{953}, \frac{90}{953}, \frac{101}{953}, -\frac{18}{953})$ $+ \frac{10}{953}\sqrt{3206}e^6 \otimes e_9 - \frac{458}{953}e^4 \otimes e_5 + \frac{4}{953}\sqrt{16259}e^1 \otimes e_3$	{12479, 1249, 12579, 1259, 14789, 1489, 15789, 1589}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{4}{27}\sqrt{5}e^{12}, \frac{2}{27}\sqrt{15}e^{13} + \frac{2}{27}\sqrt{5}e^{28} + \frac{4}{27}\sqrt{10}e^{45}$	$(\frac{8}{27}, -\frac{1}{27}, -\frac{2}{27}, \frac{1}{9}, \frac{1}{9}, -\frac{7}{27}, -\frac{7}{27}, \frac{7}{27}, \frac{2}{9})$ $+ \frac{2}{27}\sqrt{35}e^1 \otimes e_3 + \frac{2}{9}\sqrt{5}e^4 \otimes e_6 + \frac{2}{9}\sqrt{5}e^5 \otimes e_7$	{1245, 1267, 1458, 1678}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{72}\sqrt{15}e^{12}, \frac{5}{48}\sqrt{34}e^{13} + \frac{5}{144}\sqrt{57}e^{28} + \frac{5}{144}\sqrt{57}e^{45}$	$(\frac{5}{36}, \frac{25}{288}, \frac{25}{144}, \frac{5}{32}, \frac{5}{32}, -\frac{55}{144}, -\frac{25}{72}, \frac{65}{288}, \frac{5}{16})$ $+ \frac{5}{48}\sqrt{42}e^3 \otimes e_7 + \frac{5}{72}\sqrt{102}e^1 \otimes e_6$	{1234, 1348, 2345689, 23689, 34569, 369}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{15502}e^{12}, \frac{2}{531}\sqrt{14491}e^{13} + \frac{4}{531}\sqrt{1685}e^{28} + \frac{2}{177}\sqrt{7414}e^{45}$	$(\frac{92}{531}, \frac{23}{177}, \frac{46}{177}, \frac{37}{59}, -\frac{103}{531}, -\frac{341}{531}, \frac{95}{531}, \frac{161}{531}, \frac{230}{531})$ $+ \frac{4}{531}\sqrt{36733}e^4 \otimes e_6$	{1245, 12457, 126, 1267, 14578, 1458, 1678, 168, 24789, 2489, 256789, 25689, 479, 49, 5679, 569}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3573}\sqrt{644502}e^{12}, \frac{4}{3573}\sqrt{3295}e^{13} + \frac{4}{3573}\sqrt{104122}e^{28} + \frac{20}{3573}\sqrt{659}e^{45}$	$(\frac{164}{1191}, \frac{166}{3573}, \frac{332}{3573}, -\frac{247}{3573}, \frac{119}{397}, -\frac{826}{3573}, -\frac{128}{397}, \frac{658}{3573}, \frac{824}{3573})$ $+ \frac{1318}{3573}e^5 \otimes e_4 + \frac{2}{3573}\sqrt{749942}e^1 \otimes e_6 + \frac{4}{3573}\sqrt{241194}e^2 \otimes e_7$	{23468, 23568, 3467, 3567}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{4}{3609}\sqrt{7843}e^{12}, \frac{2}{3609}\sqrt{33511}e^{13} + \frac{14}{3609}\sqrt{3565}e^{28} + \frac{2}{3609}\sqrt{571826}e^{45}$	$(\frac{88}{401}, -\frac{317}{3609}, -\frac{634}{3609}, \frac{212}{1203}, -\frac{478}{3609}, \frac{176}{401}, -\frac{790}{3609}, \frac{475}{3609}, \frac{158}{3609})$ $+ \frac{2}{3609}\sqrt{649543}e^1 \otimes e_3 + \frac{2}{3609}\sqrt{794282}e^4 \otimes e_7 + \frac{4}{1203}\sqrt{24955}e^6 \otimes e_9$	{1249, 12579, 1489, 15789}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3501}\sqrt{603942}e^{12}, \frac{2}{3501}\sqrt{323051}e^{13} + \frac{68}{3501}\sqrt{310}e^{28} + \frac{2}{3501}\sqrt{157046}e^{45}$	$(\frac{284}{1167}, -\frac{101}{3501}, -\frac{202}{3501}, -\frac{13}{3501}, \frac{221}{1167}, -\frac{385}{1167}, -\frac{391}{3501}, \frac{751}{3501}, \frac{650}{3501})$ $+ \frac{20}{3501}\sqrt{5797}e^1 \otimes e_3 + \frac{52}{3501}\sqrt{527}e^5 \otimes e_7 + \frac{8}{1167}\sqrt{5270}e^2 \otimes e_6$	{23458, 2378, 3456, 367}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{4}{3421}\sqrt{90374e^{12}},$ $\frac{8}{3421}\sqrt{3095e^{13}} + \frac{2}{3421}\sqrt{550910e^{28}} + \frac{4}{3421}\sqrt{32807e^{45}}$	$(-\frac{188}{3421}, \frac{18}{311}, \frac{36}{311}, \frac{723}{3421}, -\frac{515}{3421}, \frac{1446}{3421}, -\frac{1040}{3421}, \frac{10}{3421}, \frac{208}{3421})$ $+\frac{1238}{3421}e^4 \otimes e_5 + \frac{2}{3421}\sqrt{699470e^6} \otimes e_9 + \frac{4}{3421}\sqrt{209841e^2} \otimes e_7$	{12349, 12359, 134789, 135789}
921:4	$0, 0, 0, 0, 0, 0, 0, \frac{4}{419}\sqrt{815e^{12}},$ $\frac{2}{419}\sqrt{16626e^{13}} + \frac{2}{419}\sqrt{2445e^{28}} + \frac{4}{419}\sqrt{2445e^{45}}$	$(-\frac{40}{419}, \frac{77}{419}, \frac{154}{419}, \frac{220}{419}, -\frac{106}{419}, -\frac{172}{419}, \frac{42}{419}, \frac{37}{419}, \frac{114}{419})$ $+\frac{2}{419}\sqrt{34882e^3} \otimes e_6 + \frac{326}{419}e^4 \otimes e_5$	{246, 2467, 256, 2567, 4678, 468, 5678, 568}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{24}{185}e^{12}, \frac{16}{185}\sqrt{17e^{18}} + \frac{8}{185}\sqrt{19e^{34}} + \frac{8}{185}\sqrt{19e^{56}}$	$(\frac{24}{185}, -\frac{8}{37}, \frac{36}{185}, -\frac{28}{185}, \frac{36}{185}, -\frac{28}{185}, \frac{72}{185}, -\frac{16}{185}, \frac{8}{185})$ $+\frac{24}{185}\sqrt{13e^7} \otimes e_9 + \frac{56}{185}\sqrt{2e^1} \otimes e_2 + \frac{64}{185}e^3 \otimes e_4 + \frac{64}{185}e^5 \otimes e_6$	{23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{156}\sqrt{3874e^{12}},$ $\frac{1}{156}\sqrt{16986e^{18}} + \frac{1}{156}\sqrt{2235e^{34}} + \frac{1}{156}\sqrt{2235e^{56}}$	$(\frac{47}{156}, -\frac{25}{156}, \frac{23}{104}, \frac{23}{104}, \frac{23}{104}, -\frac{17}{104}, \frac{11}{78}, \frac{23}{52})$ $+\frac{1}{156}\sqrt{38442e^1} \otimes e_7$	{1234569, 12349, 129, 1358, 23456789, 234789, 2789, 357}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{205e^{12}}, \frac{4}{81}\sqrt{41e^{18}} + \frac{4}{81}\sqrt{41e^{34}} + \frac{4}{81}\sqrt{41e^{56}}$	$(-\frac{1}{27}, \frac{5}{81}, \frac{20}{81}, -\frac{7}{27}, \frac{20}{81}, -\frac{7}{27}, \frac{40}{81}, \frac{2}{81}, -\frac{1}{81})$ $+\frac{1}{81}\sqrt{2665e^7} \otimes e_9 + \frac{41}{81}e^3 \otimes e_4 - \frac{41}{81}e^5 \otimes e_6$	{12359, 12369, 12469, 23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{495}\sqrt{386e^{12}},$ $\frac{2}{495}\sqrt{2702e^{18}} + \frac{2}{495}\sqrt{2702e^{34}} + \frac{2}{495}\sqrt{21230e^{56}}$	$(\frac{10}{99}, \frac{4}{55}, \frac{29}{55}, -\frac{25}{99}, \frac{64}{165}, -\frac{56}{495}, -\frac{194}{495}, \frac{86}{495}, \frac{136}{495})$ $+\frac{386}{495}e^3 \otimes e_4 + \frac{4}{495}\sqrt{11966e^5} \otimes e_7$	{12356, 1237, 12456, 1247, 23568, 2378, 24568, 2478}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{205e^{12}}, \frac{4}{81}\sqrt{41e^{18}} + \frac{4}{81}\sqrt{41e^{34}} + \frac{4}{81}\sqrt{41e^{56}}$	$(-\frac{1}{27}, \frac{5}{81}, \frac{20}{81}, -\frac{7}{27}, \frac{20}{81}, -\frac{7}{27}, \frac{40}{81}, \frac{2}{81}, -\frac{1}{81})$ $+\frac{1}{81}\sqrt{2665e^7} \otimes e_9 + \frac{41}{81}e^3 \otimes e_4 + \frac{41}{81}e^5 \otimes e_6$	{12359, 12369, 12469, 23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1527}\sqrt{17178e^{12}},$ $\frac{2}{1527}\sqrt{71166e^{18}} + \frac{2}{1527}\sqrt{30266e^{34}} + \frac{2}{1527}\sqrt{71166e^{56}}$	$(\frac{406}{1527}, -\frac{412}{1527}, \frac{203}{509}, -\frac{209}{1527}, \frac{448}{1527}, -\frac{16}{509}, -\frac{370}{1527}, -\frac{2}{509}, \frac{400}{1527})$ $+\frac{818}{1527}e^3 \otimes e_4 + \frac{8}{1527}\sqrt{12679e^1} \otimes e_2 + \frac{8}{1527}\sqrt{12679e^5} \otimes e_7$	{13568, 1378, 14568, 1478}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{121}\sqrt{205e^{12}}, \frac{8}{121}\sqrt{41e^{18}} + \frac{8}{121}\sqrt{41e^{34}} + \frac{8}{121}\sqrt{41e^{56}}$	$(-\frac{6}{121}, \frac{10}{121}, \frac{40}{121}, -\frac{42}{121}, -\frac{1}{121}, -\frac{1}{121}, \frac{80}{121}, \frac{4}{121}, -\frac{2}{121})$ $+\frac{2}{121}\sqrt{2665e^7} \otimes e_9 + \frac{82}{121}e^3 \otimes e_4$	{12359, 12459, 23589, 24589}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{559}\sqrt{17178e^{12}},$ $\frac{1}{559}\sqrt{71166e^{18}} + \frac{1}{559}\sqrt{71166e^{34}} + \frac{1}{559}\sqrt{30266e^{56}}$	$(\frac{203}{559}, -\frac{206}{559}, \frac{224}{559}, -\frac{24}{559}, \frac{100}{559}, \frac{100}{559}, -\frac{185}{559}, -\frac{3}{559}, \frac{200}{559})$ $+\frac{4}{559}\sqrt{12679e^1} \otimes e_2 + \frac{4}{559}\sqrt{12679e^3} \otimes e_7$	{13458, 1578, 235689, 2389, 2456789, 24789}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{24}{185}e^{12}, \frac{16}{185}\sqrt{17e^{18}} + \frac{8}{185}\sqrt{19e^{34}} + \frac{8}{185}\sqrt{19e^{56}}$	$(\frac{24}{185}, -\frac{8}{37}, \frac{36}{185}, -\frac{28}{185}, \frac{36}{185}, -\frac{28}{185}, \frac{72}{185}, -\frac{16}{185}, \frac{8}{185})$ $+\frac{24}{185}\sqrt{13e^7} \otimes e_9 + \frac{56}{185}\sqrt{2e^1} \otimes e_2 + \frac{64}{185}e^3 \otimes e_4 - \frac{64}{185}e^5 \otimes e_6$	{23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{40}\sqrt{205e^{12}}, \frac{1}{10}\sqrt{41e^{18}} + \frac{1}{10}\sqrt{41e^{34}} + \frac{1}{10}\sqrt{41e^{56}}$	$(-\frac{3}{40}, \frac{1}{8}, -\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, -\frac{1}{80}, 1, \frac{1}{20}, -\frac{1}{40})$ $+\frac{1}{40}\sqrt{2665e^7} \otimes e_9$	{12359, 1345678, 13478, 178, 23589, 34567, 347, 7}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{151}\sqrt{386e^{12}},$ $\frac{1}{151}\sqrt{2702e^{18}} + \frac{1}{151}\sqrt{21230e^{34}} + \frac{1}{151}\sqrt{2702e^{56}}$	$(\frac{25}{151}, \frac{18}{151}, \frac{96}{151}, -\frac{28}{151}, \frac{34}{151}, \frac{34}{151}, -\frac{97}{151}, \frac{43}{151}, \frac{68}{151})$ $+\frac{2}{151}\sqrt{11966e^3} \otimes e_7$	{12345, 1257, 135689, 1389, 1456789, 14789, 23458, 2578, 3569, 39, 45679, 479}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{461}\sqrt{3874e^{12}},$ $\frac{2}{461}\sqrt{16986e^{18}} + \frac{2}{461}\sqrt{2235e^{34}} + \frac{2}{461}\sqrt{2235e^{56}}$	$(\frac{94}{461}, -\frac{50}{461}, \frac{218}{461}, -\frac{80}{461}, \frac{69}{461}, \frac{69}{461}, -\frac{204}{461}, \frac{44}{461}, \frac{138}{461})$ $+\frac{298}{461}e^3 \otimes e_4 + \frac{2}{461}\sqrt{38442e^1} \otimes e_7$	{1358, 1458, 357, 457}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{151}\sqrt{386e^{12}},$ $\frac{1}{151}\sqrt{21230e^{18}} + \frac{1}{151}\sqrt{2702e^{34}} + \frac{1}{151}\sqrt{2702e^{56}}$	$(\frac{87}{151}, -\frac{106}{151}, \frac{34}{151}, \frac{34}{151}, \frac{34}{151}, \frac{34}{151}, \frac{27}{151}, -\frac{19}{151}, \frac{68}{151})$ $+\frac{2}{151}\sqrt{11966e^1} \otimes e_2$	{13578, 1358, 23456789, 2345689, 234789, 23489, 2789, 289}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{495}\sqrt{386e^{12}},$ $\frac{2}{495}\sqrt{21230e^{18}} + \frac{2}{495}\sqrt{2702e^{34}} + \frac{2}{495}\sqrt{2702e^{56}}$	$(\frac{58}{165}, -\frac{212}{495}, \frac{29}{55}, -\frac{25}{99}, \frac{68}{495}, \frac{68}{495}, \frac{6}{55}, -\frac{38}{495}, \frac{136}{495})$ $+\frac{386}{495}e^3 \otimes e_4 + \frac{4}{495}\sqrt{11966e^1} \otimes e_2$	{13578, 1358, 14578, 1458}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{344}\sqrt{386e^{12}},$ $\frac{1}{344}\sqrt{21230e^{18}} + \frac{1}{344}\sqrt{2702e^{34}} + \frac{1}{344}\sqrt{2702e^{56}}$	$(\frac{87}{344}, -\frac{53}{172}, \frac{261}{688}, -\frac{125}{688}, \frac{261}{688}, -\frac{125}{688}, \frac{27}{344}, -\frac{19}{344}, \frac{17}{86})$ $+\frac{193}{344}e^3 \otimes e_4 - \frac{193}{344}e^5 \otimes e_6 + \frac{1}{172}\sqrt{11966e^1} \otimes e_2$	{13578, 1358, 13678, 1368, 14678, 1468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{22}{151}\sqrt{10}e^{12}, \frac{22}{151}\sqrt{6}e^{18} + \frac{22}{151}\sqrt{6}e^{34} + \frac{22}{151}\sqrt{6}e^{56}$	$(\frac{14}{151}, \frac{20}{151}, \frac{145}{151}, -\frac{97}{151}, \frac{24}{151}, \frac{24}{151}, \frac{30}{151}, \frac{34}{151}, \frac{48}{151})$ $+ \frac{242}{151}e^3 \otimes e_4$	{123579, 12359, 124579, 12459, 235789, 23589, 245789, 24589}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{11}{136}\sqrt{10}e^{12}, \frac{11}{136}\sqrt{6}e^{18} + \frac{11}{136}\sqrt{6}e^{34} + \frac{11}{136}\sqrt{6}e^{56}$	$(\frac{7}{136}, \frac{5}{68}, \frac{145}{272}, -\frac{97}{272}, \frac{145}{272}, -\frac{97}{272}, \frac{15}{136}, \frac{1}{8}, \frac{3}{17})$ $+ \frac{121}{136}e^3 \otimes e_4 - \frac{121}{136}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 124679, 12469, 235789, 23589, 236789, 23689, 246789, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{89}\sqrt{13}e^{12}, \frac{5}{89}\sqrt{6}e^{18} + \frac{5}{89}\sqrt{6}e^{34} + \frac{5}{89}\sqrt{6}e^{56}$	$(-\frac{7}{89}, \frac{26}{89}, \frac{31}{89}, -\frac{19}{89}, \frac{31}{89}, -\frac{19}{89}, -\frac{24}{89}, \frac{19}{89}, \frac{12}{89})$ $+ \frac{15}{89}\sqrt{14}e^2 \otimes e_7 + \frac{50}{89}e^3 \otimes e_4 + \frac{50}{89}e^5 \otimes e_6$	{12359, 12369, 12469, 23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{344}\sqrt{386}e^{12}, \frac{1}{344}\sqrt{21230}e^{18} + \frac{1}{344}\sqrt{2702}e^{34} + \frac{1}{344}\sqrt{2702}e^{56}$	$(\frac{87}{344}, -\frac{53}{172}, \frac{261}{688}, -\frac{125}{688}, \frac{261}{688}, -\frac{125}{688}, \frac{27}{344}, -\frac{19}{344}, \frac{17}{86})$ $+ \frac{193}{344}e^3 \otimes e_4 + \frac{193}{344}e^5 \otimes e_6 + \frac{1}{172}\sqrt{11966}e^1 \otimes e_2$	{13578, 1358, 13678, 1368, 14678, 1468}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{11}{136}\sqrt{10}e^{12}, \frac{11}{136}\sqrt{6}e^{18} + \frac{11}{136}\sqrt{6}e^{34} + \frac{11}{136}\sqrt{6}e^{56}$	$(\frac{7}{136}, \frac{5}{68}, \frac{145}{272}, -\frac{97}{272}, \frac{145}{272}, -\frac{97}{272}, \frac{15}{136}, \frac{1}{8}, \frac{3}{17})$ $+ \frac{121}{136}e^3 \otimes e_4 + \frac{121}{136}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 124679, 12469, 235789, 23589, 236789, 23689, 246789, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{89}\sqrt{13}e^{12}, \frac{5}{89}\sqrt{6}e^{18} + \frac{5}{89}\sqrt{6}e^{34} + \frac{5}{89}\sqrt{6}e^{56}$	$(-\frac{7}{89}, \frac{26}{89}, \frac{31}{89}, -\frac{19}{89}, \frac{31}{89}, -\frac{19}{89}, -\frac{24}{89}, \frac{19}{89}, \frac{12}{89})$ $+ \frac{15}{89}\sqrt{14}e^2 \otimes e_7 + \frac{50}{89}e^3 \otimes e_4 - \frac{50}{89}e^5 \otimes e_6$	{12359, 12369, 12469, 23589, 23689, 24689}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{3874}e^{12}, \frac{1}{305}\sqrt{16986}e^{18} + \frac{1}{305}\sqrt{2235}e^{34} + \frac{1}{305}\sqrt{2235}e^{56}$	$(\frac{47}{305}, -\frac{5}{61}, \frac{109}{305}, -\frac{8}{61}, \frac{109}{305}, -\frac{8}{61}, -\frac{102}{305}, \frac{22}{305}, \frac{69}{305})$ $+ \frac{149}{305}e^3 \otimes e_4 - \frac{149}{305}e^5 \otimes e_6 + \frac{1}{305}\sqrt{38442}e^1 \otimes e_7$	{1358, 1368, 1468, 357, 367, 467}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{32}\sqrt{13}e^{12}, \frac{5}{64}\sqrt{6}e^{18} + \frac{5}{64}\sqrt{6}e^{34} + \frac{5}{64}\sqrt{6}e^{56}$	$(-\frac{7}{64}, \frac{13}{32}, \frac{31}{64}, -\frac{19}{64}, \frac{3}{32}, \frac{3}{32}, -\frac{3}{8}, \frac{19}{64}, \frac{3}{16})$ $+ \frac{15}{64}\sqrt{14}e^2 \otimes e_7 + \frac{25}{32}e^3 \otimes e_4$	{12359, 12459, 23589, 24589}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{8}{51}e^{12}, \frac{16}{153}\sqrt{17}e^{18} + \frac{8}{153}\sqrt{19}e^{34} + \frac{8}{153}\sqrt{19}e^{56}$	$(\frac{8}{51}, -\frac{40}{153}, \frac{4}{17}, -\frac{28}{153}, \frac{4}{153}, \frac{4}{153}, \frac{8}{153}, -\frac{16}{153}, \frac{8}{153})$ $+ \frac{56}{153}\sqrt{2}e^1 \otimes e_2 + \frac{64}{153}e^3 \otimes e_4 + \frac{8}{51}\sqrt{13}e^7 \otimes e_9$	{23589, 24589}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{3874}e^{12}, \frac{1}{305}\sqrt{16986}e^{18} + \frac{1}{305}\sqrt{2235}e^{34} + \frac{1}{305}\sqrt{2235}e^{56}$	$(\frac{47}{305}, -\frac{5}{61}, \frac{109}{305}, -\frac{8}{61}, \frac{109}{305}, -\frac{8}{61}, -\frac{102}{305}, \frac{22}{305}, \frac{69}{305})$ $+ \frac{149}{305}e^3 \otimes e_4 + \frac{149}{305}e^5 \otimes e_6 + \frac{1}{305}\sqrt{38442}e^1 \otimes e_7$	{1358, 1368, 1468, 357, 367, 467}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{24}{121}e^{12}, \frac{16}{121}\sqrt{17}e^{18} + \frac{8}{121}\sqrt{19}e^{34} + \frac{8}{121}\sqrt{19}e^{56}$	$(\frac{24}{121}, -\frac{40}{121}, \frac{4}{121}, \frac{4}{121}, \frac{4}{121}, \frac{4}{121}, \frac{72}{121}, -\frac{16}{121}, \frac{8}{121})$ $+ \frac{24}{121}\sqrt{13}e^7 \otimes e_9 + \frac{56}{121}\sqrt{2}e^1 \otimes e_2$	{1345678, 13478, 178, 23589}
921:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{39}\sqrt{13}e^{12}, \frac{5}{39}\sqrt{6}e^{18} + \frac{5}{39}\sqrt{6}e^{34} + \frac{5}{39}\sqrt{6}e^{56}$	$(-\frac{7}{39}, \frac{2}{3}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, -\frac{8}{13}, \frac{19}{39}, \frac{4}{13})$ $+ \frac{5}{13}\sqrt{14}e^2 \otimes e_7$	{12359, 1345678, 13478, 178, 23589, 34567, 347, 7}
921:6	$0, 0, 0, 0, 0, 0, 0, \frac{50}{281}\sqrt{2}e^{12}, \frac{10}{281}\sqrt{5}e^{13} + \frac{10}{281}\sqrt{30}e^{28} + \frac{10}{281}\sqrt{30}e^{45} + \frac{10}{281}\sqrt{30}e^{67}$	$(\frac{20}{281}, \frac{15}{281}, \frac{30}{281}, \frac{150}{281}, -\frac{100}{281}, \frac{150}{281}, -\frac{100}{281}, \frac{35}{281}, \frac{50}{281})$ $+ \frac{250}{281}e^4 \otimes e_5 + \frac{250}{281}e^6 \otimes e_7$	{12469, 12479, 12579, 14689, 14789, 15789}
921:6	$0, 0, 0, 0, 0, 0, 0, \frac{50}{281}\sqrt{2}e^{12}, \frac{10}{281}\sqrt{5}e^{13} + \frac{10}{281}\sqrt{30}e^{28} + \frac{10}{281}\sqrt{30}e^{45} + \frac{10}{281}\sqrt{30}e^{67}$	$(\frac{20}{281}, \frac{15}{281}, \frac{30}{281}, \frac{150}{281}, -\frac{100}{281}, \frac{150}{281}, -\frac{100}{281}, \frac{35}{281}, \frac{50}{281})$ $+ \frac{250}{281}e^4 \otimes e_5 - \frac{250}{281}e^6 \otimes e_7$	{12469, 12479, 12579, 14689, 14789, 15789}
921:6	$0, 0, 0, 0, 0, 0, 0, \frac{25}{78}\sqrt{2}e^{12}, \frac{5}{78}\sqrt{5}e^{13} + \frac{5}{78}\sqrt{30}e^{28} + \frac{5}{78}\sqrt{30}e^{45} + \frac{5}{78}\sqrt{30}e^{67}$	$(\frac{5}{39}, \frac{5}{52}, \frac{5}{26}, \frac{25}{26}, -\frac{25}{39}, \frac{25}{156}, \frac{25}{156}, \frac{35}{156}, \frac{25}{78})$ $+ \frac{125}{78}e^4 \otimes e_5$	{12469, 12569, 14689, 15689}
921:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{4}\sqrt{5}e^{13} + \frac{1}{8}\sqrt{10}e^{28} + \frac{1}{8}\sqrt{10}e^{45} + \frac{1}{8}\sqrt{10}e^{67}$	$(\frac{3}{4}, -\frac{1}{4}, -\frac{1}{2}, \frac{1}{8}, \frac{1}{8}, \frac{1}{8}, \frac{1}{8}, \frac{1}{2}, \frac{1}{4})$ $+ \frac{1}{8}\sqrt{130}e^1 \otimes e_3$	{2345678, 23458, 238, 3, 345, 34567}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{202}\sqrt{5358}e^{12}, \frac{1}{202}\sqrt{2914}e^{13}$	$(-\frac{11}{404}, \frac{51}{404}, -\frac{8}{101}, -\frac{105}{404}, \frac{67}{202}, \frac{15}{202}, \frac{15}{202}, \frac{10}{101}, -\frac{43}{404})$ $+ \frac{1}{101}\sqrt{1222}e^5 \otimes e_8 + \frac{3}{202}\sqrt{705}e^1 \otimes e_4 + \frac{3}{202}\sqrt{705}e^2 \otimes e_9$	{1235, 12356, 123567, 16789, 1689, 189, 24678, 2468, 248, 345679, 34569, 3459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12}, \frac{4}{731}\sqrt{2041}e^{13}$	$(\frac{104}{731}, -\frac{114}{731}, \frac{8}{731}, \frac{217}{731}, \frac{304}{731}, -\frac{210}{731}, -\frac{97}{731}, -\frac{10}{731}, \frac{112}{731})$ $+ \frac{314}{731}e^4 \otimes e_7 + \frac{4}{731}\sqrt{9577}e^5 \otimes e_8 + \frac{6}{731}\sqrt{4710}e^1 \otimes e_6$	{12345, 12357, 12459, 12579, 1348, 1378, 1489, 1789, 234689, 236789, 2468, 2678, 34569, 35679, 456, 567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{11}e^{12}, \frac{2}{17}\sqrt{66}e^{13}$	$(\frac{12}{17}, -\frac{10}{17}, -\frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{2}{17}, \frac{9}{17})$ $+ \frac{2}{17}\sqrt{154}e^1 \otimes e_2$	{13, 134, 1345, 13456, 134567, 145679, 14569, 1459, 149, 19, 2, 2345679, 234569, 23459, 2349, 239, 24, 245, 2456, 24567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1298}e^{12}, \frac{1}{79}\sqrt{1298}e^{13}$	$(-\frac{13}{79}, \frac{33}{79}, -\frac{2}{79}, \frac{44}{79}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, \frac{20}{79}, -\frac{15}{79})$ $+ \frac{1}{79}\sqrt{4130}e^2 \otimes e_5 + \frac{1}{79}\sqrt{4130}e^4 \otimes e_9$	{1234, 12346, 123467, 12679, 1269, 129, 1345678, 134568, 13458, 156789, 15689, 1589, 236789, 23689, 2389, 24678, 2468, 248, 35679, 3569, 359, 45, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{76}\sqrt{1273}e^{12}, \frac{1}{152}\sqrt{402}e^{13}$	$(\frac{47}{304}, \frac{53}{304}, -\frac{87}{304}, -\frac{81}{304}, \frac{47}{152}, \frac{3}{38}, \frac{3}{38}, \frac{25}{76}, -\frac{5}{76})$ $+ \frac{1}{152}\sqrt{4690}e^5 \otimes e_9 + \frac{1}{152}\sqrt{7035}e^1 \otimes e_3 + \frac{1}{152}\sqrt{7035}e^2 \otimes e_4$	{12679, 1269, 129, 146789, 14689, 1489, 236789, 23689, 2389, 34679, 3469, 349}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{3}e^{12}, \frac{2}{7}\sqrt{3}e^{13}$	$(\frac{3}{14}, -\frac{3}{14}, -\frac{3}{14}, \frac{2}{7}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{14}, 0, 0)$ $+ \frac{1}{7}\sqrt{15}e^1 \otimes e_2 + \frac{1}{7}\sqrt{15}e^5 \otimes e_9 + \frac{3}{7}e^4 \otimes e_6$	{1345, 13457, 1356, 13567, 1479, 149, 1679, 169, 23479, 2349, 23679, 2369, 245, 2457, 256, 2567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1298}e^{12}, \frac{2}{217}\sqrt{1298}e^{13}$	$(-\frac{26}{217}, -\frac{4}{217}, -\frac{4}{217}, \frac{11}{31}, \frac{88}{217}, \frac{88}{217}, -\frac{41}{217}, -\frac{30}{217}, -\frac{30}{217})$ $+ \frac{118}{217}e^4 \otimes e_7 + \frac{2}{217}\sqrt{4130}e^5 \otimes e_8 + \frac{2}{217}\sqrt{4130}e^6 \otimes e_9$	{123456, 123567, 12459, 12579, 1489, 1789, 23489, 23789, 2468, 2678, 456, 567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12}, \frac{4}{731}\sqrt{2041}e^{13}$	$(\frac{78}{731}, \frac{156}{731}, -\frac{236}{731}, -\frac{97}{731}, \frac{217}{731}, \frac{60}{731}, \frac{60}{731}, \frac{234}{731}, -\frac{158}{731})$ $+ \frac{314}{731}e^5 \otimes e_4 + \frac{4}{731}\sqrt{9577}e^1 \otimes e_3 + \frac{6}{731}\sqrt{4710}e^2 \otimes e_9$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{66}e^{12}, \frac{2}{17}\sqrt{11}e^{13}$	$(-\frac{2}{17}, \frac{11}{17}, \frac{4}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{9}{17}, \frac{2}{17})$ $+ \frac{2}{17}\sqrt{154}e^2 \otimes e_4$	{12, 1235679, 123569, 12359, 1239, 125, 1256, 12567, 13456789, 1345689, 134589, 13489, 145678, 14568, 1458, 148, 235678, 23568, 2358, 238, 256789, 25689, 2589, 289, 34, 345, 3456, 34567, 45679, 4569, 459, 49}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1298}e^{12}, \frac{1}{79}\sqrt{1298}e^{13}$	$(\frac{22}{79}, -\frac{37}{79}, -\frac{2}{79}, \frac{44}{79}, \frac{9}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{15}{79}, \frac{20}{79})$ $+ \frac{1}{79}\sqrt{4130}e^1 \otimes e_2 + \frac{1}{79}\sqrt{4130}e^4 \otimes e_8$	{135678, 13568, 1358, 138, 156789, 15689, 1589, 189, 2356789, 235689, 23589, 2389, 25678, 2568, 258, 28}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7410}e^{12}, \frac{2}{199}\sqrt{114}e^{13}$	$(\frac{8}{199}, \frac{10}{199}, \frac{10}{199}, -\frac{49}{199}, \frac{75}{199}, -\frac{47}{199}, \frac{14}{199}, \frac{18}{199}, \frac{18}{199})$ $+ \frac{1}{199}\sqrt{6954}e^2 \otimes e_6 + \frac{1}{199}\sqrt{6954}e^5 \otimes e_8 + \frac{3}{199}\sqrt{798}e^1 \otimes e_4$	{1235, 12357, 12579, 1259, 13678, 1368, 16789, 1689, 234789, 23489, 2478, 248, 345679, 34569, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{5}e^{13}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, \frac{3}{14}, -\frac{1}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{2}{7}e^5 \otimes e_4 + \frac{2}{7}e^7 \otimes e_6 + \frac{3}{7}e^2 \otimes e_9 + \frac{3}{7}e^3 \otimes e_8$	{12346, 12347, 12357, 14689, 14789, 15789, 2468, 2478, 2578}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{5}e^{12}, \frac{1}{7}\sqrt{5}e^{13}$	$(-\frac{2}{7}, \frac{3}{14}, \frac{3}{14}, -\frac{1}{14}, \frac{3}{14}, -\frac{1}{14}, \frac{3}{14}, -\frac{1}{14}, -\frac{1}{14})$ $+ \frac{2}{7}e^5 \otimes e_4 + \frac{2}{7}e^7 \otimes e_6 + \frac{3}{7}e^2 \otimes e_9 - \frac{3}{7}e^3 \otimes e_8$	{12346, 12347, 12357, 14689, 14789, 15789, 2468, 2478, 2578}
92:1	$0, 0, 0, 0, 0, 0, \frac{5}{22}\sqrt{11}e^{12}, \frac{5}{22}\sqrt{11}e^{13}$	$(\frac{1}{2}, -\frac{3}{44}, -\frac{3}{44}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{19}{44}, \frac{19}{44})$ $+ \frac{15}{11}e^1 \otimes e_4$	{123, 1235, 12356, 123567, 125679, 12569, 1259, 129, 156789, 15689, 1589, 189, 23456789, 2345689, 234589, 23489, 245678, 24568, 2458, 248, 4, 45, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{15}\sqrt{5}e^{12}, \frac{2}{15}\sqrt{5}e^{13}$	$(-\frac{1}{5}, \frac{1}{6}, \frac{1}{6}, -\frac{1}{6}, \frac{3}{10}, -\frac{1}{6}, \frac{3}{10}, -\frac{1}{30}, -\frac{1}{30})$ $+ \frac{1}{15}\sqrt{35}e^2 \otimes e_4 + \frac{1}{15}\sqrt{35}e^3 \otimes e_6 + \frac{1}{15}\sqrt{35}e^5 \otimes e_8 + \frac{1}{15}\sqrt{35}e^7 \otimes e_9$	{12357, 12569, 14689, 2389, 2678, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{5}e^{13}$	$(\frac{1}{20}, \frac{3}{10}, -\frac{3}{20}, -\frac{7}{20}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{7}{20}, -\frac{1}{10})$ $+\frac{3}{5}e^1 \otimes e_4 + \frac{3}{5}e^2 \otimes e_9$	{123, 1235, 12356, 123567, 156789, 15689, 1589, 189, 245678, 24568, 2458, 248, 345679, 34569, 3459, 349}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1298}e^{12}, \frac{2}{217}\sqrt{1298}e^{13}$	$(\frac{44}{217}, -\frac{74}{217}, -\frac{4}{217}, \frac{11}{31}, \frac{88}{217}, -\frac{41}{217}, \frac{18}{217}, -\frac{30}{217}, \frac{40}{217})$ $+\frac{118}{217}e^4 \otimes e_6 + \frac{2}{217}\sqrt{4130}e^1 \otimes e_2 + \frac{2}{217}\sqrt{4130}e^5 \otimes e_8$	{13478, 1348, 13678, 1368, 14789, 1489, 16789, 1689, 234789, 23489, 236789, 23689, 2478, 248, 2678, 268}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{5}e^{13}$	$(-\frac{2}{5}, \frac{3}{10}, \frac{3}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{10})$ $+\frac{3}{5}e^2 \otimes e_9 - \frac{3}{5}e^3 \otimes e_8$	{123, 1234, 12345, 123456, 1234567, 1456789, 145689, 14589, 1489, 189, 245678, 24568, 2458, 248, 28}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{5}\sqrt{5}e^{12}, \frac{1}{5}\sqrt{5}e^{13}$	$(-\frac{2}{5}, \frac{3}{10}, \frac{3}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{10}, -\frac{1}{10})$ $+\frac{3}{5}e^2 \otimes e_9 + \frac{3}{5}e^3 \otimes e_8$	{123, 1234, 12345, 123456, 1234567, 1456789, 145689, 14589, 1489, 189, 245678, 24568, 2458, 248, 28}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1298}e^{12}, \frac{1}{79}\sqrt{1298}e^{13}$	$(-\frac{13}{79}, -\frac{2}{79}, -\frac{2}{79}, \frac{44}{79}, \frac{44}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{15}{79}, -\frac{15}{79})$ $+\frac{1}{79}\sqrt{4130}e^4 \otimes e_8 + \frac{1}{79}\sqrt{4130}e^5 \otimes e_9$	{12345, 123456, 1234567, 124679, 12469, 1249, 16789, 1689, 189, 236789, 23689, 2389, 25678, 2568, 258, 45, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{4}{371}\sqrt{1273}e^{12}, \frac{2}{371}\sqrt{402}e^{13}$	$(\frac{47}{371}, \frac{1}{7}, -\frac{87}{371}, -\frac{81}{371}, \frac{13}{53}, -\frac{43}{371}, \frac{94}{371}, \frac{100}{371}, -\frac{40}{371})$ $+\frac{134}{371}e^5 \otimes e_6 + \frac{2}{371}\sqrt{4690}e^7 \otimes e_9 + \frac{2}{371}\sqrt{7035}e^1 \otimes e_3 + \frac{2}{371}\sqrt{7035}e^2 \otimes e_4$	{1259, 1269, 14589, 14689, 23589, 23689, 3459, 3469}
92:1	$0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{410}e^{12}, \frac{4}{221}\sqrt{410}e^{13}$	$(\frac{19}{221}, -\frac{22}{221}, -\frac{22}{221}, \frac{79}{221}, \frac{79}{221}, -\frac{63}{221}, \frac{18}{221}, -\frac{3}{221}, -\frac{3}{221})$ $+\frac{18}{221}\sqrt{41}e^1 \otimes e_6 + \frac{2}{221}\sqrt{2501}e^4 \otimes e_8 + \frac{2}{221}\sqrt{2501}e^5 \otimes e_9$	{12345, 123457, 12479, 1249, 1789, 189, 236789, 23689, 25678, 2568, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1298}e^{12}, \frac{1}{79}\sqrt{1298}e^{13}$	$(-\frac{13}{79}, \frac{33}{79}, \frac{33}{79}, -\frac{26}{79}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, \frac{20}{79}, \frac{20}{79})$ $+\frac{1}{79}\sqrt{4130}e^2 \otimes e_4 + \frac{1}{79}\sqrt{4130}e^3 \otimes e_5$	{123, 1236, 12367, 125679, 12569, 1259, 1456789, 145689, 14589, 236789, 23689, 2389, 25678, 2568, 258, 45, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{3}e^{13}$	$(\frac{3}{14}, \frac{1}{7}, -\frac{3}{14}, -\frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{14}, \frac{5}{14}, 0)$ $+\frac{1}{7}\sqrt{15}e^1 \otimes e_3 + \frac{1}{7}\sqrt{15}e^2 \otimes e_4 + \frac{3}{7}e^5 \otimes e_6$	{125, 1257, 126, 1267, 14578, 1458, 14678, 1468, 23578, 2358, 23678, 2368, 345, 3457, 346, 3467}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{66}e^{12}, \frac{1}{14}\sqrt{11}e^{13}$	$(-\frac{1}{14}, \frac{11}{28}, \frac{1}{7}, \frac{1}{2}, -\frac{11}{28}, -\frac{2}{7}, \frac{3}{28}, \frac{9}{28}, \frac{1}{14})$ $+\frac{11}{14}e^4 \otimes e_6 + \frac{1}{14}\sqrt{154}e^2 \otimes e_5$	{123479, 12349, 123679, 12369, 124, 1247, 126, 1267, 1345789, 134589, 1356789, 14578, 1458, 15678, 1568, 23478, 2348, 23678, 2368, 24789, 2489, 26789, 2689, 345, 3457, 356, 3567, 4579, 459, 5679, 569}
92:1	$0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{3}e^{12}, \frac{2}{11}\sqrt{3}e^{13}$	$(\frac{3}{11}, \frac{2}{11}, -\frac{3}{11}, -\frac{4}{11}, \frac{1}{11}, \frac{1}{11}, \frac{1}{11}, \frac{5}{11}, 0)$ $+\frac{2}{11}\sqrt{15}e^1 \otimes e_3 + \frac{2}{11}\sqrt{15}e^2 \otimes e_4$	{12, 125, 1256, 12567, 145678, 14568, 1458, 148, 235678, 23568, 2358, 238, 34, 345, 3456, 34567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{76}\sqrt{1273}e^{12}, \frac{1}{152}\sqrt{402}e^{13}$	$(-\frac{29}{152}, \frac{53}{304}, \frac{11}{38}, -\frac{81}{304}, \frac{129}{304}, -\frac{23}{152}, \frac{3}{38}, -\frac{5}{304}, \frac{15}{152})$ $+\frac{1}{152}\sqrt{4690}e^3 \otimes e_6 + \frac{1}{152}\sqrt{7035}e^2 \otimes e_4 + \frac{1}{152}\sqrt{7035}e^5 \otimes e_8$	{1235, 12357, 125679, 12569, 13478, 1348, 146789, 14689, 23789, 2389, 2678, 268, 34579, 3459, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12}, \frac{2}{287}\sqrt{2041}e^{13}$	$(\frac{52}{287}, \frac{65}{287}, \frac{4}{287}, -\frac{15}{41}, -\frac{92}{287}, \frac{30}{287}, \frac{30}{287}, \frac{117}{287}, \frac{8}{41})$ $+\frac{2}{287}\sqrt{9577}e^2 \otimes e_5 + \frac{3}{287}\sqrt{4710}e^1 \otimes e_4$	{123, 1236, 12367, 12679, 1269, 129, 135678, 13568, 1358, 156789, 15689, 1589, 2346789, 234689, 23489, 24678, 2468, 248, 345679, 34569, 3459, 45, 456, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1298}e^{12}, \frac{2}{217}\sqrt{1298}e^{13}$	$(-\frac{26}{217}, \frac{66}{217}, -\frac{4}{217}, \frac{11}{31}, \frac{88}{217}, -\frac{52}{217}, -\frac{41}{217}, \frac{40}{217}, -\frac{30}{217})$ $+\frac{118}{217}e^4 \otimes e_7 + \frac{2}{217}\sqrt{4130}e^2 \otimes e_6 + \frac{2}{217}\sqrt{4130}e^5 \otimes e_9$	{12345, 12357, 1249, 1279, 134568, 135678, 14689, 16789, 23489, 23789, 2458, 2578, 3469, 3679, 456, 567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{371}\sqrt{402}e^{12}, \frac{4}{371}\sqrt{1273}e^{13}$	$(\frac{47}{371}, -\frac{87}{371}, -\frac{52}{371}, \frac{13}{53}, \frac{94}{371}, -\frac{43}{371}, \frac{129}{371}, -\frac{40}{371}, -\frac{5}{371})$ $+\frac{134}{371}e^4 \otimes e_6 + \frac{2}{371}\sqrt{4690}e^5 \otimes e_8 + \frac{2}{371}\sqrt{7035}e^1 \otimes e_2 + \frac{2}{371}\sqrt{7035}e^7 \otimes e_9$	{13478, 13678, 1489, 1689, 23489, 23689, 2478, 2678}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{11}e^{12}, \frac{1}{14}\sqrt{66}e^{13}$	$(\frac{3}{7}, -\frac{5}{14}, -\frac{3}{28}, \frac{1}{2}, -\frac{2}{7}, \frac{3}{28}, \frac{3}{28}, \frac{1}{14}, \frac{9}{28})$ $+\frac{11}{14}e^4 \otimes e_5 + \frac{1}{14}\sqrt{154}e^1 \otimes e_2$	{134, 1346, 13467, 135, 1356, 13567, 14679, 1469, 149, 15679, 1569, 159, 234679, 23469, 2349, 235679, 23569, 2359, 24, 246, 2467, 25, 256, 2567}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{451}\sqrt{5358}e^{12}, \frac{2}{451}\sqrt{2914}e^{13}$	$(-\frac{1}{41}, \frac{51}{451}, -\frac{32}{451}, -\frac{105}{451}, \frac{7}{41}, -\frac{17}{451}, \frac{134}{451}, \frac{40}{451}, -\frac{43}{451})$ $+\frac{4}{451}\sqrt{1222}e^7 \otimes e_8 + \frac{6}{451}\sqrt{705}e^1 \otimes e_4 + \frac{6}{451}\sqrt{705}e^2 \otimes e_9 + \frac{94}{451}e^5 \otimes e_6$	{12357, 12367, 1589, 1689, 2458, 2468, 34579, 34679}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12}, \frac{2}{287}\sqrt{2041}e^{13}$	$(-\frac{83}{287}, \frac{65}{287}, \frac{139}{287}, -\frac{92}{287}, \frac{30}{287}, \frac{30}{287}, \frac{30}{287}, -\frac{18}{287}, \frac{8}{41})$ $+\frac{2}{287}\sqrt{9577}e^2 \otimes e_4 + \frac{3}{287}\sqrt{4710}e^3 \otimes e_8$	{123, 1235, 12356, 123567, 1456789, 145689, 14589, 1489, 25678, 2568, 258, 28, 345679, 34569, 3459, 349}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{17}e^{12}, \frac{2}{21}\sqrt{17}e^{13}$	$(\frac{2}{21}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{13}{21}, \frac{4}{21}, \frac{4}{21}, \frac{5}{21}, \frac{5}{21})$ $+\frac{34}{21}e^4 \otimes e_5$	{1234, 12346, 123467, 1235, 12356, 123567, 124679, 12469, 1249, 125679, 12569, 1259, 146789, 14689, 1489, 156789, 15689, 1589, 2346789, 234689, 23489, 2356789, 235689, 23589, 24678, 2468, 248, 25678, 2568, 258, 4, 46, 467, 5, 56, 567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12}, \frac{2}{287}\sqrt{2041}e^{13}$	$(\frac{52}{287}, -\frac{57}{287}, \frac{4}{287}, \frac{152}{287}, -\frac{15}{41}, \frac{30}{287}, \frac{30}{287}, -\frac{5}{287}, \frac{8}{41})$ $+\frac{2}{287}\sqrt{9577}e^4 \otimes e_8 + \frac{3}{287}\sqrt{4710}e^1 \otimes e_5$	{1234, 12346, 123467, 124679, 12469, 1249, 13678, 1368, 138, 16789, 1689, 189, 2356789, 235689, 23589, 25678, 2568, 258, 345679, 34569, 3459, 45, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{188}\sqrt{4183}e^{12}, \frac{1}{376}\sqrt{5874}e^{13}$	$(\frac{5}{376}, \frac{43}{752}, -\frac{9}{376}, -\frac{21}{94}, \frac{231}{752}, -\frac{135}{752}, \frac{85}{376}, \frac{53}{752}, -\frac{1}{94})$ $+\frac{1}{376}\sqrt{10858}e^7 \otimes e_9 + \frac{1}{376}\sqrt{16287}e^2 \otimes e_6 + \frac{1}{376}\sqrt{16287}e^5 \otimes e_8 + \frac{3}{188}\sqrt{534}e^1 \otimes e_4$	{12357, 1259, 13678, 1689, 23489, 2478, 34569, 4567}
92:1	$0, 0, 0, 0, 0, 0, \frac{10}{69}\sqrt{11}e^{12}, \frac{10}{69}\sqrt{11}e^{13}$	$(-\frac{14}{69}, \frac{11}{23}, -\frac{1}{23}, \frac{11}{23}, -\frac{17}{69}, \frac{8}{69}, \frac{8}{69}, \frac{19}{69}, -\frac{17}{69})$ $+\frac{20}{23}e^2 \otimes e_9 + \frac{50}{69}e^4 \otimes e_5$	{1234, 12346, 123467, 1235, 12356, 123567, 146789, 14689, 1489, 156789, 15689, 1589, 24678, 2468, 248, 25678, 2568, 258, 34679, 3469, 349, 35679, 3569, 359}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1298}e^{12}, \frac{2}{217}\sqrt{1298}e^{13}$	$(-\frac{26}{217}, \frac{66}{217}, \frac{66}{217}, -\frac{52}{217}, \frac{11}{31}, -\frac{52}{217}, -\frac{41}{217}, \frac{40}{217}, \frac{40}{217})$ $+\frac{118}{217}e^5 \otimes e_7 + \frac{2}{217}\sqrt{4130}e^2 \otimes e_4 + \frac{2}{217}\sqrt{4130}e^3 \otimes e_6$	{1235, 1237, 12569, 12679, 145689, 146789, 23589, 23789, 2568, 2678, 456, 467}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12}, \frac{4}{731}\sqrt{2041}e^{13}$	$(-\frac{166}{731}, \frac{156}{731}, \frac{8}{731}, \frac{217}{731}, \frac{304}{731}, -\frac{97}{731}, \frac{60}{731}, -\frac{10}{731}, -\frac{158}{731})$ $+\frac{314}{731}e^4 \otimes e_6 + \frac{4}{731}\sqrt{9577}e^5 \otimes e_8 + \frac{6}{731}\sqrt{4710}e^2 \otimes e_9$	{12345, 123457, 12356, 123567, 14789, 1489, 16789, 1689, 2478, 248, 2678, 268, 34579, 3459, 35679, 3569}
92:1	$0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12}, \frac{2}{287}\sqrt{2041}e^{13}$	$(-\frac{83}{287}, \frac{78}{287}, \frac{4}{287}, \frac{152}{287}, \frac{30}{287}, \frac{30}{287}, \frac{30}{287}, -\frac{5}{287}, -\frac{79}{287})$ $+\frac{2}{287}\sqrt{9577}e^4 \otimes e_8 + \frac{3}{287}\sqrt{4710}e^2 \otimes e_9$	{1234, 12345, 123456, 1234567, 156789, 15689, 1589, 189, 25678, 2568, 258, 28, 345679, 34569, 3459, 349}
92:1	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{2378}e^{12}, \frac{2}{223}\sqrt{667}e^{13}$	$(\frac{24}{223}, \frac{1}{223}, -\frac{34}{223}, -\frac{57}{223}, \frac{83}{223}, \frac{13}{223}, \frac{13}{223}, \frac{25}{223}, -\frac{10}{223})$ $+\frac{2}{223}\sqrt{2030}e^1 \otimes e_3 + \frac{2}{223}\sqrt{2030}e^2 \otimes e_4 + \frac{2}{223}\sqrt{2030}e^5 \otimes e_8$	{125, 1256, 12567, 14678, 1468, 148, 23678, 2368, 238, 345, 3456, 34567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{3}e^{12}, \frac{2}{11}\sqrt{3}e^{13}$	$(-\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{6}{11}, -\frac{4}{11}, \frac{1}{11}, \frac{1}{11}, 0, 0)$ $+\frac{2}{11}\sqrt{15}e^2 \otimes e_5 + \frac{2}{11}\sqrt{15}e^4 \otimes e_8$	{1234679, 123469, 12349, 124, 1246, 12467, 1356789, 135689, 13589, 15678, 1568, 158, 23678, 2368, 238, 26789, 2689, 289, 345, 3456, 34567, 45679, 4569, 459}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{410}e^{12}, \frac{4}{221}\sqrt{410}e^{13}$	$(\frac{19}{221}, \frac{3}{17}, -\frac{22}{221}, -\frac{63}{221}, \frac{79}{221}, -\frac{43}{221}, \frac{18}{221}, \frac{58}{221}, -\frac{3}{221})$ $+\frac{18}{221}\sqrt{41}e^1 \otimes e_4 + \frac{2}{221}\sqrt{2501}e^2 \otimes e_6 + \frac{2}{221}\sqrt{2501}e^5 \otimes e_9$	{1235, 12357, 1279, 129, 135678, 13568, 16789, 1689, 234789, 23489, 24578, 2458, 34679, 3469, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{10}{69}\sqrt{11}e^{12}, \frac{10}{69}\sqrt{11}e^{13}$	$(\frac{22}{69}, -\frac{1}{23}, -\frac{1}{23}, \frac{11}{23}, -\frac{28}{69}, -\frac{17}{69}, \frac{8}{69}, \frac{19}{69}, \frac{19}{69})$ $+\frac{20}{23}e^1 \otimes e_5 + \frac{50}{69}e^4 \otimes e_6$	{1234, 12347, 1236, 12367, 12479, 1249, 12679, 1269, 14789, 1489, 16789, 1689, 2345789, 234589, 2356789, 235689, 24578, 2458, 25678, 2568, 45, 457, 56, 567}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{76}\sqrt{1273}e^{12}, \frac{1}{152}\sqrt{402}e^{13}$	$(-\frac{29}{152}, \frac{53}{304}, \frac{9}{152}, \frac{129}{304}, \frac{47}{152}, -\frac{81}{304}, \frac{3}{38}, -\frac{5}{304}, -\frac{5}{38})$ $+\frac{1}{152}\sqrt{4690}e^5 \otimes e_9 + \frac{1}{152}\sqrt{7035}e^2 \otimes e_6 + \frac{1}{152}\sqrt{7035}e^4 \otimes e_8$	{12345, 123457, 12479, 1249, 135678, 13568, 16789, 1689, 23789, 2389, 2578, 258, 34679, 3469, 456, 4567}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{5}e^{12}, \frac{1}{6}\sqrt{5}e^{13}$	$(-\frac{1}{3}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{12}, \frac{1}{4}, \frac{1}{12}, \frac{1}{12}, -\frac{1}{12}, -\frac{1}{12})$ $+\frac{1}{2}e^2 \otimes e_9 + \frac{1}{2}e^3 \otimes e_8 + \frac{1}{3}e^5 \otimes e_4$	{1234, 12346, 123467, 1235, 12356, 123567, 146789, 14689, 1489, 156789, 15689, 1589, 24678, 2468, 248, 25678, 2568, 258}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{5}e^{12}, \frac{1}{6}\sqrt{5}e^{13}$	$(-\frac{1}{3}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{12}, \frac{1}{4}, \frac{1}{12}, \frac{1}{12}, -\frac{1}{12}, -\frac{1}{12})$ $+\frac{1}{2}e^2 \otimes e_9 - \frac{1}{2}e^3 \otimes e_8 + \frac{1}{3}e^5 \otimes e_4$	{1234, 12346, 123467, 1235, 12356, 123567, 146789, 14689, 1489, 156789, 15689, 1589, 24678, 2468, 248, 25678, 2568, 258}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12}, \frac{4}{731}\sqrt{2041}e^{13}$	$(-\frac{166}{731}, \frac{130}{731}, \frac{278}{731}, -\frac{184}{731}, \frac{217}{731}, -\frac{97}{731}, \frac{60}{731}, -\frac{36}{731}, \frac{112}{731})$ $+\frac{314}{731}e^5 \otimes e_6 + \frac{4}{731}\sqrt{9577}e^2 \otimes e_4 + \frac{6}{731}\sqrt{4710}e^3 \otimes e_8$	{1235, 12357, 1236, 12367, 145789, 14589, 146789, 14689, 2578, 258, 2678, 268, 34579, 3459, 34679, 3469}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{5}e^{12}, \frac{1}{6}\sqrt{5}e^{13}$	$(\frac{1}{24}, \frac{1}{4}, -\frac{1}{8}, -\frac{7}{24}, \frac{1}{4}, -\frac{1}{12}, \frac{1}{12}, \frac{7}{24}, -\frac{1}{12})$ $+\frac{1}{2}e^1 \otimes e_4 + \frac{1}{2}e^2 \otimes e_9 + \frac{1}{3}e^5 \otimes e_6$	{1235, 12357, 1236, 12367, 15789, 1589, 16789, 1689, 24578, 2458, 24678, 2468, 34579, 3459, 34679, 3469}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{17}e^{12}, \frac{1}{19}\sqrt{17}e^{13}$	$(\frac{1}{19}, \frac{3}{38}, \frac{3}{38}, \frac{21}{38}, \frac{21}{38}, -\frac{13}{38}, -\frac{13}{38}, \frac{5}{38}, \frac{5}{38})$ $+\frac{17}{19}e^4 \otimes e_6 + \frac{17}{19}e^5 \otimes e_7$	{12345, 12347, 12367, 12459, 12479, 12679, 14589, 14789, 16789, 234589, 234789, 236789, 2458, 2478, 2678, 45, 47, 67}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{11}e^{12}, \frac{2}{39}\sqrt{66}e^{13}$	$(\frac{4}{13}, -\frac{10}{39}, -\frac{1}{13}, \frac{14}{39}, \frac{14}{39}, -\frac{8}{39}, -\frac{8}{39}, \frac{2}{39}, \frac{3}{13})$ $+\frac{22}{39}e^4 \otimes e_6 + \frac{22}{39}e^5 \otimes e_7 + \frac{2}{39}\sqrt{154}e^1 \otimes e_2$	{1345, 1347, 1367, 1459, 1479, 1679, 23459, 23479, 23679, 245, 247, 267}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{66}e^{12}, \frac{2}{17}\sqrt{11}e^{13}$	$(-\frac{2}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{1}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, -\frac{5}{17}, \frac{2}{17})$ $+\frac{2}{17}\sqrt{154}e^4 \otimes e_8$	{12345679, 1234569, 123459, 12349, 124, 1245, 12456, 124567, 1356789, 135689, 13589, 1389, 15678, 1568, 158, 18, 235678, 23568, 2358, 238, 256789, 25689, 2589, 289, 34, 345, 3456, 34567, 45679, 4569, 459, 49}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{126}\sqrt{2378}e^{12}, \frac{1}{126}\sqrt{667}e^{13}$	$(\frac{2}{21}, \frac{1}{252}, -\frac{17}{126}, -\frac{19}{84}, \frac{1}{6}, -\frac{4}{63}, \frac{83}{252}, \frac{25}{252}, -\frac{5}{126})$ $+\frac{1}{126}\sqrt{2030}e^1 \otimes e_3 + \frac{1}{126}\sqrt{2030}e^2 \otimes e_4 + \frac{1}{126}\sqrt{2030}e^7 \otimes e_8 + \frac{29}{126}e^5 \otimes e_6$	{1257, 1267, 1458, 1468, 2358, 2368, 3457, 3467}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{11}e^{12}, \frac{5}{47}\sqrt{11}e^{13}$	$(-\frac{7}{47}, \frac{33}{94}, -\frac{3}{94}, \frac{33}{94}, \frac{33}{94}, -\frac{17}{94}, -\frac{17}{94}, \frac{19}{94}, -\frac{17}{94})$ $+\frac{25}{47}e^4 \otimes e_6 + \frac{25}{47}e^5 \otimes e_7 + \frac{30}{47}e^2 \otimes e_9$	{12345, 12347, 12367, 14589, 14789, 16789, 2458, 2478, 2678, 3459, 3479, 3679}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{444}\sqrt{27318}e^{12}, \frac{1}{222}\sqrt{2041}e^{13}$	$(\frac{13}{148}, \frac{13}{74}, -\frac{59}{222}, -\frac{97}{888}, \frac{217}{888}, -\frac{97}{888}, \frac{217}{888}, \frac{39}{148}, -\frac{79}{444})$ $+\frac{157}{444}e^5 \otimes e_4 + \frac{157}{444}e^7 \otimes e_6 + \frac{1}{148}\sqrt{4710}e^2 \otimes e_9 + \frac{1}{222}\sqrt{9577}e^1 \otimes e_3$	{14689, 14789, 15789, 3469, 3479, 3579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{410}e^{12}, \frac{4}{221}\sqrt{410}e^{13}$	$(-\frac{62}{221}, \frac{3}{17}, \frac{59}{221}, -\frac{43}{221}, \frac{79}{221}, \frac{18}{221}, \frac{18}{221}, -\frac{23}{221}, -\frac{3}{221})$ $+\frac{18}{221}\sqrt{41}e^3 \otimes e_8 + \frac{2}{221}\sqrt{2501}e^2 \otimes e_4 + \frac{2}{221}\sqrt{2501}e^5 \otimes e_9$	{1235, 12356, 123567, 146789, 14689, 1489, 25678, 2568, 258, 34679, 3469, 349}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12}, \frac{1}{7}\sqrt{3}e^{13}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{2}{7}, \frac{3}{7}, -\frac{2}{7}, -\frac{1}{7}, 0, 0)$ $+\frac{1}{7}\sqrt{15}e^2 \otimes e_6 + \frac{1}{7}\sqrt{15}e^5 \otimes e_8 + \frac{3}{7}e^4 \otimes e_7$	{123459, 123579, 1245, 1257, 134689, 136789, 1468, 1678, 2348, 2378, 2489, 2789, 3456, 3567, 4569, 5679}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{7410}e^{12}, \frac{4}{455}\sqrt{114}e^{13}$	$(\frac{12}{455}, \frac{24}{455}, -\frac{102}{455}, -\frac{29}{455}, \frac{17}{91}, \frac{4}{65}, \frac{30}{91}, \frac{36}{455}, -\frac{18}{91})$ $+\frac{114}{455}e^5 \otimes e_4 + \frac{2}{455}\sqrt{6954}e^1 \otimes e_3 + \frac{2}{455}\sqrt{6954}e^7 \otimes e_8 + \frac{6}{455}\sqrt{798}e^2 \otimes e_9$	{14689, 1489, 15689, 1589, 34679, 3479, 35679, 3579}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12}, \frac{2}{287}\sqrt{2041}e^{13}$	$(\frac{39}{287}, \frac{78}{287}, -\frac{118}{287}, \frac{30}{287}, \frac{30}{287}, \frac{30}{287}, \frac{30}{287}, \frac{117}{287}, -\frac{79}{287})$ $+\frac{2}{287}\sqrt{9577}e^1 \otimes e_3 + \frac{3}{287}\sqrt{4710}e^2 \otimes e_9$	{1456789, 145689, 14589, 1489, 189, 345679, 34569, 3459, 349, 39}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{152}\sqrt{402}e^{12}, \frac{1}{76}\sqrt{1273}e^{13}$	$(\frac{47}{304}, -\frac{87}{304}, -\frac{13}{76}, \frac{47}{152}, \frac{129}{304}, \frac{3}{38}, \frac{3}{38}, -\frac{5}{38}, -\frac{5}{304})$ $+\frac{1}{152}\sqrt{4690}e^4 \otimes e_8 + \frac{1}{152}\sqrt{7035}e^1 \otimes e_2 + \frac{1}{152}\sqrt{7035}e^5 \otimes e_9$	{135678, 13568, 1358, 16789, 1689, 189, 236789, 23689, 2389, 25678, 2568, 258}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7410}e^{12}, \frac{2}{199}\sqrt{114}e^{13}$	$(\frac{6}{199}, \frac{12}{199}, -\frac{51}{199}, \frac{14}{199}, \frac{75}{199}, \frac{14}{199}, \frac{14}{199}, \frac{18}{199}, -\frac{45}{199})$ $+\frac{1}{199}\sqrt{6954}e^1 \otimes e_3 + \frac{1}{199}\sqrt{6954}e^5 \otimes e_8 + \frac{3}{199}\sqrt{798}e^2 \otimes e_9$	{146789, 14689, 1489, 189, 345679, 34569, 3459, 359}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{410}e^{12}, \frac{2}{131}\sqrt{410}e^{13}$	$(-\frac{31}{131}, \frac{39}{262}, \frac{59}{262}, -\frac{43}{262}, \frac{59}{262}, -\frac{23}{262}, \frac{79}{262}, -\frac{23}{262}, -\frac{3}{262})$ $+\frac{1}{131}\sqrt{2501}e^2 \otimes e_4 + \frac{1}{131}\sqrt{2501}e^7 \otimes e_9 + \frac{41}{131}e^5 \otimes e_6 + \frac{9}{131}\sqrt{41}e^3 \otimes e_8$	{12357, 12367, 14589, 14689, 2578, 2678, 3459, 3469}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{3}e^{12}, \frac{4}{11}\sqrt{3}e^{13}$	$(\frac{3}{11}, -\frac{3}{11}, -\frac{3}{11}, \frac{6}{11}, \frac{1}{11}, \frac{1}{11}, \frac{1}{11}, 0, 0)$ $+\frac{2}{11}\sqrt{15}e^1 \otimes e_2 + \frac{2}{11}\sqrt{15}e^4 \otimes e_9$	{134, 1345, 13456, 134567, 15679, 1569, 159, 19, 235679, 23569, 2359, 239, 24, 245, 2456, 24567}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12}, \frac{4}{731}\sqrt{2041}e^{13}$	$(\frac{104}{731}, \frac{130}{731}, \frac{8}{731}, -\frac{210}{731}, \frac{217}{731}, -\frac{184}{731}, -\frac{97}{731}, \frac{234}{731}, \frac{112}{731})$ $+\frac{314}{731}e^5 \otimes e_7 + \frac{4}{731}\sqrt{9577}e^2 \otimes e_6 + \frac{6}{731}\sqrt{4710}e^1 \otimes e_4$	{1235, 1237, 1259, 1279, 13568, 13678, 15689, 16789, 234589, 234789, 2458, 2478, 34569, 34679, 456, 467}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{66}e^{12}, \frac{1}{14}\sqrt{11}e^{13}$	$(-\frac{1}{14}, -\frac{3}{28}, \frac{1}{7}, \frac{1}{2}, \frac{17}{28}, -\frac{2}{7}, \frac{3}{28}, -\frac{5}{28}, \frac{1}{14})$ $+\frac{11}{14}e^4 \otimes e_6 + \frac{1}{14}\sqrt{154}e^5 \otimes e_8$	{1234579, 123459, 1235679, 123569, 1245, 12457, 1256, 12567, 134789, 13489, 136789, 13689, 1478, 148, 1678, 168, 23478, 2348, 23678, 2368, 24789, 2489, 26789, 2689, 345, 3457, 356, 3567, 4579, 459, 5679, 569}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{442}e^{12}, \frac{1}{53}\sqrt{78}e^{13}$	$(\frac{4}{53}, \frac{1}{53}, -\frac{9}{53}, -\frac{12}{53}, \frac{18}{53}, \frac{3}{53}, \frac{8}{53}, \frac{5}{53}, -\frac{5}{53})$ $+\frac{1}{53}\sqrt{130}e^7 \otimes e_9 + \frac{1}{53}\sqrt{390}e^1 \otimes e_3 + \frac{1}{53}\sqrt{390}e^2 \otimes e_4 + \frac{1}{53}\sqrt{390}e^5 \otimes e_8$	{12567, 1257, 14678, 1478, 23678, 2378, 34567, 3457}
92:1	$0, 0, 0, 0, 0, 0, 0, \frac{5}{22}\sqrt{11}e^{12}, \frac{5}{22}\sqrt{11}e^{13}$	$(-\frac{7}{22}, \frac{3}{4}, -\frac{3}{44}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{19}{44}, -\frac{17}{44})$ $+\frac{15}{11}e^2 \otimes e_9$	{123, 1234, 12345, 123456, 1234567, 1456789, 145689, 14589, 1489, 189, 245678, 24568, 2458, 248, 28, 345679, 34569, 3459, 349, 39}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{803}\sqrt{4917}e^{12}, \frac{2}{803}\sqrt{32482}e^{34}$	$(\frac{89}{803}, -\frac{19}{73}, \frac{178}{803}, -\frac{2}{11}, \frac{30}{73}, \frac{72}{803}, \frac{72}{803}, -\frac{120}{803}, \frac{32}{803})$ $+\frac{298}{803}e^1 \otimes e_2 + \frac{2}{803}\sqrt{38442}e^5 \otimes e_9 + \frac{36}{803}\sqrt{149}e^3 \otimes e_8$	{146789, 14689, 1489, 15678, 1568, 158, 246789, 24689, 2489, 25678, 2568, 258}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{8}{79}\sqrt{31}e^{12}, \frac{2}{79}\sqrt{93}e^{34}$	$(-\frac{7}{79}, -\frac{7}{79}, \frac{6}{79}, \frac{6}{79}, \frac{40}{79}, \frac{48}{79}, -\frac{22}{79}, -\frac{14}{79}, \frac{12}{79})$ $+\frac{2}{79}\sqrt{1209}e^6 \otimes e_8 + \frac{62}{79}e^5 \otimes e_7$	{123456, 123467, 123569, 123679, 1256, 1267, 13458, 13478, 13589, 13789, 158, 178, 3456, 3467, 3569, 3679, 56, 67}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{327}\sqrt{32482}e^{12}, \frac{2}{327}\sqrt{4917}e^{34}$	$(\frac{89}{327}, -\frac{73}{327}, -\frac{10}{109}, -\frac{10}{109}, \frac{55}{109}, \frac{12}{109}, \frac{12}{109}, \frac{16}{327}, -\frac{20}{109})$ $+\frac{1}{327}\sqrt{38442}e^5 \otimes e_8 + \frac{6}{109}\sqrt{149}e^1 \otimes e_9$	{12345, 123456, 1234567, 125, 1256, 12567, 134678, 13468, 1348, 1678, 168, 18, 236789, 23689, 2389, 35679, 3569, 359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{902}e^{12}, \frac{1}{59}\sqrt{902}e^{34}$	$(\frac{22}{59}, -\frac{4}{59}, \frac{22}{59}, -\frac{4}{59}, -\frac{19}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{18}{59}, \frac{18}{59})$ $+\frac{2}{59}\sqrt{533}e^1 \otimes e_5 + \frac{2}{59}\sqrt{533}e^3 \otimes e_6$	{1234, 12347, 12379, 1239, 124679, 12469, 126, 1267, 13789, 1389, 146789, 14689, 1678, 168, 2456789, 245689, 25678, 2568, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{14}{223}\sqrt{6}e^{12}, \frac{14}{223}\sqrt{58}e^{34}$	$(\frac{61}{223}, -\frac{37}{223}, \frac{38}{223}, -\frac{40}{223}, \frac{96}{223}, -\frac{60}{223}, \frac{18}{223}, \frac{24}{223}, -\frac{2}{223})$ $+\frac{14}{223}\sqrt{78}e^3 \otimes e_6 + \frac{14}{223}\sqrt{78}e^5 \otimes e_9 + \frac{98}{223}e^1 \otimes e_2$	{134578, 13458, 13789, 1389, 146789, 14689, 15678, 1568, 234578, 23458, 23789, 2389, 246789, 24689, 25678, 2568}
92:2	$0, 0, 0, 0, 0, 0, \frac{5}{28}\sqrt{2}e^{12}, \frac{5}{28}\sqrt{2}e^{34}$	$(\frac{29}{56}, -\frac{3}{8}, \frac{29}{56}, -\frac{3}{8}, \frac{3}{28}, \frac{3}{28}, \frac{3}{28}, \frac{1}{7}, \frac{1}{7})$ $+\frac{25}{28}e^1 \otimes e_2 + \frac{25}{28}e^3 \otimes e_4$	{1356789, 135689, 13589, 1389, 1456789, 145689, 14589, 1489, 2456789, 245689, 24589, 2489}
92:2	$0, 0, 0, 0, 0, 0, \frac{5}{28}\sqrt{2}e^{12}, \frac{5}{28}\sqrt{2}e^{34}$	$(\frac{29}{56}, -\frac{3}{8}, \frac{1}{14}, \frac{1}{14}, \frac{31}{56}, -\frac{19}{110}, \frac{3}{11}, \frac{1}{7}, \frac{1}{7})$ $+\frac{25}{28}e^1 \otimes e_2 + \frac{25}{28}e^5 \otimes e_6$	{134578, 13458, 134678, 13468, 135789, 13589, 136789, 13689, 1578, 158, 1678, 168, 234578, 23458, 234678, 23468, 235789, 23589, 236789, 23689, 2578, 258, 2678, 268}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{93}e^{12}, \frac{4}{55}\sqrt{31}e^{34}$	$(\frac{37}{110}, -\frac{5}{22}, -\frac{7}{110}, -\frac{7}{110}, \frac{4}{11}, \frac{24}{55}, -\frac{1}{5}, \frac{6}{55}, -\frac{7}{55})$ $+\frac{1}{55}\sqrt{1209}e^6 \otimes e_9 + \frac{31}{55}e^1 \otimes e_2 + \frac{31}{55}e^5 \otimes e_7$	{134568, 134678, 13589, 13789, 1568, 1678, 234568, 234678, 23589, 23789, 2568, 2678}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{31}e^{12}, \frac{1}{24}\sqrt{93}e^{34}$	$(-\frac{7}{48}, -\frac{7}{48}, \frac{1}{8}, \frac{1}{8}, \frac{1}{16}, \frac{3}{16}, \frac{3}{16}, -\frac{7}{24}, \frac{1}{4})$ $+\frac{1}{24}\sqrt{1209}e^5 \otimes e_8$	{12345, 123456, 1234567, 1235679, 123569, 12359, 125, 1256, 12567, 134678, 13468, 1348, 136789, 13689, 1389, 1678, 168, 18, 345, 3456, 34567, 35679, 3569, 359, 5, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{18}{479}\sqrt{46}e^{12}, \frac{126}{479}\sqrt{2}e^{34}$	$(\frac{69}{479}, -\frac{93}{479}, \frac{66}{479}, -\frac{64}{479}, \frac{138}{479}, -\frac{96}{479}, \frac{164}{479}, -\frac{24}{479}, \frac{2}{479})$ $+\frac{162}{479}e^1 \otimes e_2 + \frac{18}{479}\sqrt{130}e^3 \otimes e_6 + \frac{18}{479}\sqrt{130}e^7 \otimes e_9 + \frac{36}{479}\sqrt{26}e^5 \otimes e_8$	{13478, 1389, 14689, 1678, 23478, 2389, 24689, 2678}
92:2	$0, 0, 0, 0, 0, 0, \frac{7}{87}\sqrt{58}e^{12}, \frac{7}{87}\sqrt{6}e^{34}$	$(\frac{19}{87}, -\frac{20}{87}, \frac{2}{29}, \frac{2}{29}, \frac{16}{29}, -\frac{10}{29}, \frac{3}{29}, -\frac{1}{87}, \frac{4}{29})$ $+\frac{7}{87}\sqrt{78}e^1 \otimes e_6 + \frac{7}{87}\sqrt{78}e^5 \otimes e_8$	{12345, 123457, 123579, 12359, 125, 1257, 13478, 1348, 13789, 1389, 178, 18, 234678, 23468, 236789, 23689, 2678, 268, 3456, 34567, 35679, 3569, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{238}\sqrt{4917}e^{12}, \frac{1}{476}\sqrt{32482}e^{34}$	$(\frac{89}{952}, -\frac{209}{952}, \frac{89}{476}, -\frac{73}{476}, \frac{13}{56}, -\frac{11}{136}, \frac{165}{476}, -\frac{15}{119}, \frac{4}{119})$ $+\frac{149}{476}e^1 \otimes e_2 + \frac{149}{476}e^5 \otimes e_6 + \frac{1}{476}\sqrt{38442}e^7 \otimes e_9 + \frac{9}{238}\sqrt{149}e^3 \otimes e_8$	{14589, 14689, 1578, 1678, 24589, 24689, 2578, 2678}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{35}e^{12}, \frac{1}{15}\sqrt{35}e^{34}$	$(\frac{13}{60}, -\frac{7}{30}, \frac{13}{60}, -\frac{7}{30}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{60}, -\frac{1}{60})$ $+\frac{1}{10}\sqrt{21}e^1 \otimes e_9 + \frac{1}{10}\sqrt{21}e^3 \otimes e_8$	{1234, 12345, 123456, 1234567, 15678, 1568, 158, 18, 2456789, 245689, 24589, 2489}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{49}\sqrt{11}e^{12}, \frac{8}{49}\sqrt{11}e^{34}$	$(\frac{11}{49}, -\frac{3}{7}, \frac{22}{49}, -\frac{5}{49}, \frac{6}{49}, \frac{6}{49}, \frac{6}{49}, -\frac{10}{49}, \frac{17}{49})$ $+\frac{24}{49}\sqrt{3}e^3 \otimes e_8 + \frac{32}{49}e^1 \otimes e_2$	{1456789, 145689, 14589, 1489, 15678, 1568, 158, 18, 2456789, 245689, 24589, 2489, 25678, 2568, 258, 28}
92:2	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{31}e^{12}, \frac{1}{55}\sqrt{93}e^{34}$	$(\frac{12}{55}, -\frac{19}{55}, \frac{3}{55}, \frac{3}{55}, \frac{4}{11}, \frac{24}{55}, -\frac{1}{5}, -\frac{7}{55}, \frac{6}{55})$ $+\frac{1}{55}\sqrt{1209}e^6 \otimes e_8 + \frac{31}{55}e^1 \otimes e_2 + \frac{31}{55}e^5 \otimes e_7$	{13458, 13478, 13589, 13789, 158, 178, 23458, 23478, 23589, 23789, 258, 278}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{100}\sqrt{902}e^{12}, \frac{1}{100}\sqrt{902}e^{34}$	$(\frac{33}{200}, -\frac{49}{200}, \frac{33}{200}, -\frac{49}{200}, \frac{33}{100}, \frac{33}{100}, \frac{7}{100}, \frac{33}{100}, -\frac{2}{25}, -\frac{2}{25})$ $+\frac{1}{50}\sqrt{533}e^5 \otimes e_8 + \frac{1}{50}\sqrt{533}e^7 \otimes e_9 + \frac{41}{100}e^1 \otimes e_2 + \frac{41}{100}e^3 \otimes e_4$	{13689, 1389, 14689, 1489, 24689, 2489}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{65}\sqrt{11}e^{12}, \frac{8}{65}\sqrt{11}e^{34}$	$(\frac{11}{65}, -\frac{21}{65}, \frac{22}{65}, -\frac{1}{13}, \frac{22}{65}, -\frac{2}{13}, \frac{6}{65}, -\frac{2}{13}, \frac{17}{65})$ $+\frac{24}{65}\sqrt{3}e^3 \otimes e_8 + \frac{32}{65}e^1 \otimes e_2 + \frac{32}{65}e^5 \otimes e_6$	{145789, 14589, 146789, 14689, 1578, 158, 1678, 168, 245789, 24589, 246789, 24689, 2578, 258, 2678, 268}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{93}e^{12}, \frac{4}{55}\sqrt{31}e^{34}$	$(\frac{37}{110}, -\frac{5}{22}, \frac{16}{55}, -\frac{7}{110}, \frac{4}{11}, -\frac{3}{11}, -\frac{1}{5}, \frac{6}{55}, \frac{5}{22})$ $+\frac{1}{55}\sqrt{1209}e^3 \otimes e_6 + \frac{31}{55}e^1 \otimes e_2 + \frac{31}{55}e^5 \otimes e_7$	{13458, 13478, 13589, 13789, 145689, 146789, 1568, 1678, 23458, 23478, 23589, 23789, 245689, 246789, 2568, 2678}
92:2	$0, 0, 0, 0, 0, 0, \frac{7}{87}\sqrt{58}e^{12}, \frac{7}{87}\sqrt{6}e^{34}$	$(\frac{19}{87}, \frac{19}{87}, \frac{2}{29}, \frac{2}{29}, -\frac{10}{29}, -\frac{10}{29}, \frac{3}{29}, \frac{38}{87}, \frac{4}{29})$ $+\frac{7}{87}\sqrt{78}e^1 \otimes e_5 + \frac{7}{87}\sqrt{78}e^2 \otimes e_6$	{12, 1234, 12347, 12379, 1239, 127, 134678, 13468, 136789, 13689, 1678, 168, 3456, 34567, 35679, 3569, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{63}{199}\sqrt{2}e^{12}, \frac{9}{199}\sqrt{46}e^{34}$	$(\frac{33}{199}, -\frac{32}{199}, \frac{46}{199}, -\frac{6}{199}, \frac{82}{199}, -\frac{48}{199}, -\frac{35}{199}, \frac{1}{199}, \frac{40}{199})$ $+\frac{18}{199}\sqrt{26}e^3 \otimes e_7 + \frac{9}{199}\sqrt{130}e^1 \otimes e_6 + \frac{9}{199}\sqrt{130}e^5 \otimes e_8$	{12345, 12359, 124579, 1257, 1348, 1389, 14789, 178, 23468, 23689, 246789, 2678, 3456, 3569, 45679, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{93}e^{12}, \frac{8}{79}\sqrt{31}e^{34}$	$(\frac{37}{79}, -\frac{25}{79}, \frac{7}{79}, -\frac{7}{79}, \frac{48}{79}, \frac{9}{79}, \frac{9}{79}, \frac{12}{79}, -\frac{14}{79})$ $+\frac{2}{79}\sqrt{1209}e^5 \otimes e_9 + \frac{62}{79}e^1 \otimes e_2$	{1345678, 134568, 13458, 136789, 13689, 1389, 15678, 1568, 158, 2345678, 234568, 23458, 236789, 23689, 2389, 25678, 2568, 258}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{902}e^{12}, \frac{2}{159}\sqrt{902}e^{34}$	$(\frac{11}{53}, -\frac{49}{159}, -\frac{8}{159}, -\frac{8}{159}, \frac{22}{53}, \frac{22}{53}, \frac{14}{159}, -\frac{16}{159}, -\frac{16}{159})$ $+\frac{4}{159}\sqrt{533}e^5 \otimes e_8 + \frac{4}{159}\sqrt{533}e^6 \otimes e_9 + \frac{82}{159}e^1 \otimes e_2$	{134678, 13468, 13789, 1389, 1678, 168, 234678, 23468, 23789, 2389, 2678, 268}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{141}\sqrt{31}e^{12}, \frac{2}{141}\sqrt{93}e^{34}$	$(\frac{8}{47}, -\frac{38}{141}, \frac{37}{141}, -\frac{25}{141}, \frac{40}{141}, -\frac{22}{141}, \frac{16}{141}, -\frac{14}{141}, \frac{4}{47})$ $+\frac{2}{141}\sqrt{1209}e^7 \otimes e_8 + \frac{62}{141}e^1 \otimes e_2 + \frac{62}{141}e^3 \otimes e_4 + \frac{62}{141}e^5 \otimes e_6$	{13589, 13689, 14589, 14689, 23589, 23689, 24589, 24689}
92:2	$0, 0, 0, 0, 0, 0, \frac{63}{199}\sqrt{2}e^{12}, \frac{9}{199}\sqrt{46}e^{34}$	$(\frac{33}{199}, \frac{33}{199}, -\frac{6}{199}, -\frac{6}{199}, \frac{69}{199}, -\frac{48}{199}, -\frac{48}{199}, \frac{66}{199}, -\frac{12}{199})$ $+\frac{18}{199}\sqrt{26}e^5 \otimes e_9 + \frac{9}{199}\sqrt{130}e^1 \otimes e_6 + \frac{9}{199}\sqrt{130}e^2 \otimes e_7$	{12345, 1239, 125, 134578, 13789, 1578, 34567, 3679, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{10}{81}\sqrt{2}e^{12}, \frac{10}{81}\sqrt{2}e^{34}$	$(\frac{29}{81}, -\frac{7}{27}, \frac{29}{81}, -\frac{7}{27}, \frac{31}{81}, -\frac{19}{81}, \frac{2}{27}, \frac{8}{81}, \frac{8}{81})$ $+\frac{50}{81}e^1 \otimes e_2 + \frac{50}{81}e^3 \otimes e_4 + \frac{50}{81}e^5 \otimes e_6$	{135789, 13589, 136789, 13689, 145789, 14589, 146789, 14689, 245789, 24589, 246789, 24689}
92:2	$0, 0, 0, 0, 0, 0, \frac{63}{199}\sqrt{2}e^{12}, \frac{9}{199}\sqrt{46}e^{34}$	$(\frac{33}{199}, -\frac{32}{199}, -\frac{6}{199}, -\frac{6}{199}, \frac{82}{199}, \frac{69}{199}, -\frac{48}{199}, \frac{1}{199}, -\frac{12}{199})$ $+\frac{18}{199}\sqrt{26}e^6 \otimes e_9 + \frac{9}{199}\sqrt{130}e^1 \otimes e_7 + \frac{9}{199}\sqrt{130}e^5 \otimes e_8$	{123456, 12359, 1256, 13468, 1389, 168, 234678, 23789, 2678, 34567, 3579, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{79}\sqrt{93}e^{12}, \frac{8}{79}\sqrt{31}e^{34}$	$(\frac{37}{79}, -\frac{25}{79}, \frac{32}{79}, -\frac{7}{79}, -\frac{30}{79}, \frac{9}{79}, \frac{9}{79}, \frac{12}{79}, \frac{25}{79})$ $+\frac{2}{79}\sqrt{1209}e^3 \otimes e_5 + \frac{62}{79}e^1 \otimes e_2$	{134678, 13468, 1348, 136789, 13689, 1389, 1456789, 145689, 14589, 15678, 1568, 158, 234678, 23468, 2348, 236789, 23689, 2389, 2456789, 245689, 24589, 25678, 2568, 258}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{159}\sqrt{902}e^{12}, \frac{2}{159}\sqrt{902}e^{34}$	$(\frac{11}{53}, -\frac{49}{159}, \frac{44}{159}, -\frac{8}{159}, \frac{22}{53}, -\frac{38}{159}, \frac{14}{159}, -\frac{16}{159}, \frac{12}{53})$ $+\frac{4}{159}\sqrt{533}e^3 \otimes e_6 + \frac{4}{159}\sqrt{533}e^5 \otimes e_8 + \frac{82}{159}e^1 \otimes e_2$	{13478, 1348, 13789, 1389, 146789, 14689, 1678, 168, 23478, 2348, 23789, 2389, 246789, 24689, 2678, 268}
92:2	$0, 0, 0, 0, 0, 0, \frac{4}{55}\sqrt{31}e^{12}, \frac{1}{55}\sqrt{93}e^{34}$	$(\frac{12}{55}, -\frac{19}{55}, \frac{37}{110}, -\frac{5}{22}, \frac{24}{55}, \frac{9}{110}, \frac{9}{110}, -\frac{7}{55}, \frac{6}{55})$ $+\frac{1}{55}\sqrt{1209}e^5 \otimes e_8 + \frac{31}{55}e^1 \otimes e_2 + \frac{31}{55}e^3 \otimes e_4$	{136789, 13689, 1389, 146789, 14689, 1489, 236789, 23689, 2389, 246789, 24689, 2489}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{21}e^{12}, \frac{1}{21}\sqrt{6}e^{34}$	$(\frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{8}{21}, -\frac{5}{21}, -\frac{5}{21}, \frac{2}{21}, \frac{2}{21})$ $+\frac{1}{21}\sqrt{78}e^1 \otimes e_6 + \frac{1}{21}\sqrt{78}e^2 \otimes e_7 + \frac{1}{21}\sqrt{78}e^5 \otimes e_8$	{12345, 12359, 125, 13478, 13789, 178, 34567, 35679, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{10}{31}\sqrt{2}e^{12}, \frac{10}{31}\sqrt{2}e^{34}$	$(\frac{4}{31}, \frac{4}{31}, \frac{4}{31}, \frac{4}{31}, 1, -\frac{19}{31}, \frac{6}{31}, \frac{8}{31}, \frac{8}{31})$ $+\frac{50}{31}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 123579, 12359, 123679, 12369, 125, 1257, 126, 1267, 135789, 13589, 136789, 13689, 1578, 158, 1678, 168, 5, 57, 6, 67}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{31}e^{12}, \frac{1}{24}\sqrt{93}e^{34}$	$(\frac{2}{3}, -\frac{7}{48}, \frac{1}{8}, \frac{1}{8}, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{25}{48}, \frac{1}{4})$ $+ \frac{1}{24}\sqrt{1209}e^1 \otimes e_5$	{12, 1234, 12346, 123467, 123679, 12369, 1239, 126, 1267, 134678, 13468, 1348, 136789, 13689, 1389, 1678, 168, 18, 2345678, 234568, 23458, 2356789, 235689, 23589, 25678, 2568, 258, 345, 3456, 34567, 35679, 3569, 359, 5, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{4}{163}\sqrt{230}e^{12}, \frac{4}{163}\sqrt{230}e^{34}$	$(\frac{17}{163}, -\frac{26}{163}, \frac{37}{163}, -\frac{26}{163}, \frac{57}{163}, -\frac{29}{163}, \frac{14}{163}, -\frac{9}{163}, \frac{11}{163})$ $+ \frac{2}{163}\sqrt{989}e^1 \otimes e_6 + \frac{2}{163}\sqrt{989}e^5 \otimes e_9 + \frac{6}{163}\sqrt{161}e^3 \otimes e_8$	{12345, 123457, 12379, 1239, 14789, 1489, 1578, 158, 246789, 24689, 25678, 2568, 3456, 34567, 3679, 369}
92:2	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{35}e^{12}, \frac{4}{67}\sqrt{35}e^{34}$	$(\frac{13}{67}, -\frac{14}{67}, \frac{13}{67}, -\frac{14}{67}, \frac{13}{67}, -\frac{1}{67}, \frac{6}{67}, -\frac{1}{67}, -\frac{1}{67})$ $+ \frac{14}{67}e^5 \otimes e_6 + \frac{6}{67}\sqrt{21}e^1 \otimes e_9 + \frac{6}{67}\sqrt{21}e^3 \otimes e_8$	{12345, 123457, 12346, 123467, 1578, 158, 1678, 168, 245789, 24589, 246789, 24689}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{902}e^{12}, \frac{1}{59}\sqrt{902}e^{34}$	$(\frac{22}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{33}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{18}{59}, -\frac{8}{59})$ $+ \frac{2}{59}\sqrt{533}e^1 \otimes e_6 + \frac{2}{59}\sqrt{533}e^5 \otimes e_9$	{12345, 123457, 12379, 1239, 125, 1257, 134578, 13458, 13789, 1389, 1578, 158, 2345678, 234568, 236789, 23689, 25678, 2568, 3456, 34567, 3679, 369, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{327}\sqrt{32482}e^{12}, \frac{2}{327}\sqrt{4917}e^{34}$	$(\frac{56}{327}, \frac{89}{327}, -\frac{10}{109}, -\frac{10}{109}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, \frac{145}{327}, -\frac{20}{109})$ $+ \frac{1}{327}\sqrt{38442}e^1 \otimes e_5 + \frac{6}{109}\sqrt{149}e^2 \otimes e_9$	{12, 1234, 12346, 123467, 126, 1267, 136789, 13689, 1389, 2345678, 234568, 23458, 25678, 2568, 258, 35679, 3569, 359}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{79}\sqrt{31}e^{12}, \frac{2}{79}\sqrt{93}e^{34}$	$(\frac{32}{79}, -\frac{7}{79}, \frac{6}{79}, \frac{6}{79}, \frac{40}{79}, -\frac{30}{79}, -\frac{22}{79}, \frac{25}{79}, \frac{12}{79})$ $+ \frac{2}{79}\sqrt{1209}e^1 \otimes e_6 + \frac{62}{79}e^5 \otimes e_7$	{12345, 12347, 12359, 12379, 125, 127, 13458, 13478, 13589, 13789, 158, 178, 234568, 234678, 235689, 236789, 2568, 2678, 3456, 3467, 3569, 3679, 56, 67}
92:2	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{902}e^{12}, \frac{1}{59}\sqrt{902}e^{34}$	$(-\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{33}{59}, \frac{33}{59}, \frac{7}{59}, -\frac{8}{59}, -\frac{8}{59})$ $+ \frac{2}{59}\sqrt{533}e^5 \otimes e_8 + \frac{2}{59}\sqrt{533}e^6 \otimes e_9$	{123456, 1234567, 123579, 12359, 1256, 12567, 13789, 1389, 1678, 168, 56, 567}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{33}\sqrt{11}e^{12}, \frac{8}{33}\sqrt{11}e^{34}$	$(\frac{2}{3}, -\frac{5}{33}, -\frac{5}{33}, -\frac{5}{33}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{17}{33}, -\frac{10}{33})$ $+ \frac{8}{11}\sqrt{3}e^1 \otimes e_9$	{12, 1234, 12345, 123456, 1234567, 125, 1256, 12567, 1345678, 134568, 13458, 1348, 15678, 1568, 158, 18, 2356789, 235689, 23589, 2389, 35679, 3569, 359, 39}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{79}\sqrt{31}e^{12}, \frac{2}{79}\sqrt{93}e^{34}$	$(\frac{24}{79}, -\frac{38}{79}, \frac{6}{79}, \frac{6}{79}, \frac{48}{79}, \frac{9}{79}, \frac{9}{79}, -\frac{14}{79}, \frac{12}{79})$ $+ \frac{2}{79}\sqrt{1209}e^5 \otimes e_8 + \frac{62}{79}e^1 \otimes e_2$	{134678, 13468, 1348, 136789, 13689, 1389, 1678, 168, 18, 234678, 23468, 2348, 236789, 23689, 2389, 2678, 268, 28}
92:2	$0, 0, 0, 0, 0, 0, \frac{8}{49}\sqrt{11}e^{12}, \frac{8}{49}\sqrt{11}e^{34}$	$(\frac{22}{49}, -\frac{5}{49}, -\frac{5}{49}, -\frac{5}{49}, \frac{22}{49}, -\frac{10}{49}, \frac{6}{49}, \frac{17}{49}, -\frac{10}{49})$ $+ \frac{24}{49}\sqrt{3}e^1 \otimes e_9 + \frac{32}{49}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 125, 1257, 126, 1267, 134578, 13458, 134678, 13468, 1578, 158, 1678, 168, 235789, 23589, 236789, 23689, 3579, 359, 3679, 369}
92:2	$0, 0, 0, 0, 0, 0, \frac{2}{803}\sqrt{32482}e^{12}, \frac{4}{803}\sqrt{4917}e^{34}$	$(\frac{178}{803}, -\frac{2}{11}, -\frac{60}{803}, -\frac{60}{803}, \frac{221}{803}, \frac{30}{73}, -\frac{7}{73}, \frac{32}{803}, -\frac{120}{803})$ $+ \frac{298}{803}e^5 \otimes e_7 + \frac{2}{803}\sqrt{38442}e^6 \otimes e_8 + \frac{36}{803}\sqrt{149}e^1 \otimes e_9$	{123456, 123467, 1256, 1267, 13458, 13478, 158, 178, 23589, 23789, 3569, 3679}
92:2	$0, 0, 0, 0, 0, 0, \frac{10}{31}\sqrt{2}e^{12}, \frac{10}{31}\sqrt{2}e^{34}$	$(\frac{29}{31}, -\frac{21}{31}, \frac{4}{31}, \frac{4}{31}, \frac{6}{31}, \frac{6}{31}, \frac{6}{31}, \frac{8}{31}, \frac{8}{31})$ $+ \frac{50}{31}e^1 \otimes e_2$	{1345678, 134568, 13458, 1348, 1356789, 135689, 13589, 1389, 15678, 1568, 158, 18, 2345678, 234568, 23458, 2348, 2356789, 235689, 23589, 2389, 25678, 2568, 258, 28}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{327}\sqrt{32482}e^{12}, \frac{2}{327}\sqrt{4917}e^{34}$	$\left(\frac{56}{327}, -\frac{73}{327}, \frac{44}{109}, -\frac{10}{109}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{17}{327}, \frac{34}{109}\right)$ $+ \frac{1}{327}\sqrt{38442}e^1 \otimes e_5 + \frac{6}{109}\sqrt{149}e^3 \otimes e_8$	{1234, 12346, 123467, 123679, 12369, 1239, 146789, 14689, 1489, 1678, 168, 18, 2456789, 245689, 24589, 25678, 2568, 258, 345, 3456, 34567, 35679, 3569, 359}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{114}\sqrt{2014}e^{12}, \frac{1}{228}\sqrt{3498}e^{34}$	$\left(\frac{13}{456}, \frac{23}{228}, -\frac{5}{76}, -\frac{5}{76}, \frac{55}{152}, -\frac{31}{152}, \frac{3}{38}, \frac{59}{456}, -\frac{5}{38}\right)$ $+ \frac{1}{228}\sqrt{6837}e^1 \otimes e_6 + \frac{1}{228}\sqrt{6837}e^5 \otimes e_8 + \frac{3}{76}\sqrt{106}e^2 \otimes e_9$	{12345, 123457, 125, 1257, 13789, 1389, 234678, 23468, 2678, 268, 35679, 3569}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{803}\sqrt{32482}e^{12}, \frac{4}{803}\sqrt{4917}e^{34}$	$\left(\frac{112}{803}, -\frac{2}{11}, \frac{24}{73}, -\frac{60}{803}, \frac{221}{803}, -\frac{186}{803}, -\frac{7}{73}, -\frac{34}{803}, \frac{204}{803}\right)$ $+ \frac{298}{803}e^5 \otimes e_7 + \frac{2}{803}\sqrt{38442}e^1 \otimes e_6 + \frac{36}{803}\sqrt{149}e^3 \otimes e_8$	{12345, 12347, 12359, 12379, 14589, 14789, 158, 178, 245689, 246789, 2568, 2678, 3456, 3467, 3569, 3679}
92:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{803}\sqrt{32482}e^{12}, \frac{4}{803}\sqrt{4917}e^{34}$	$\left(\frac{112}{803}, \frac{178}{803}, -\frac{60}{803}, -\frac{60}{803}, \frac{221}{803}, -\frac{186}{803}, -\frac{7}{73}, \frac{290}{803}, -\frac{120}{803}\right)$ $+ \frac{298}{803}e^5 \otimes e_7 + \frac{2}{803}\sqrt{38442}e^1 \otimes e_6 + \frac{36}{803}\sqrt{149}e^2 \otimes e_9$	{12345, 12347, 125, 127, 13589, 13789, 234568, 234678, 2568, 2678, 3569, 3679}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{2546}e^{12}, \frac{2}{171}\sqrt{335}e^{13} + \frac{2}{171}\sqrt{335}e^{24}$	$\left(-\frac{5}{57}, -\frac{5}{57}, \frac{23}{171}, \frac{23}{171}, \frac{85}{171}, \frac{104}{171}, -\frac{49}{171}, -\frac{10}{57}, \frac{8}{171}\right)$ $+ \frac{134}{171}e^5 \otimes e_7 + \frac{2}{171}\sqrt{5762}e^6 \otimes e_8$	{1234569, 1234679, 1256, 1267, 13589, 13789, 1458, 1478, 3456, 3467, 569, 679}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{125}\sqrt{689}e^{12}, \frac{1}{125}\sqrt{3021}e^{13} + \frac{1}{125}\sqrt{689}e^{24}$	$\left(-\frac{49}{250}, -\frac{1}{50}, \frac{26}{125}, \frac{4}{125}, \frac{37}{125}, \frac{109}{250}, -\frac{16}{125}, -\frac{27}{125}, \frac{3}{50}\right)$ $+ \frac{2}{125}\sqrt{1166}e^3 \otimes e_8 + \frac{2}{125}\sqrt{1166}e^6 \otimes e_9 + \frac{53}{125}e^5 \otimes e_7$	{123456, 123467, 14589, 14789, 24568, 24678, 3459, 3479}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{5}{141}\sqrt{66}e^{12}, \frac{5}{141}\sqrt{66}e^{13} + \frac{5}{141}\sqrt{66}e^{24}$	$\left(-\frac{10}{141}, -\frac{10}{141}, \frac{44}{141}, \frac{44}{141}, \frac{55}{141}, -\frac{31}{141}, -\frac{31}{141}, -\frac{20}{141}, \frac{34}{141}\right)$ $+ \frac{5}{141}\sqrt{258}e^3 \otimes e_6 + \frac{5}{141}\sqrt{258}e^4 \otimes e_7 + \frac{5}{141}\sqrt{258}e^5 \otimes e_8$	{12345, 125679, 1378, 14689, 3459, 567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{12}{691}\sqrt{413}e^{12}, \frac{2}{691}\sqrt{40710}e^{13} + \frac{2}{691}\sqrt{14691}e^{24}$	$\left(\frac{85}{691}, \frac{64}{691}, \frac{127}{691}, \frac{148}{691}, -\frac{269}{691}, -\frac{227}{691}, \frac{65}{691}, \frac{149}{691}, \frac{212}{691}\right)$ $+ \frac{1}{691}\sqrt{59118}e^1 \otimes e_5 + \frac{4}{691}\sqrt{12921}e^3 \otimes e_6$	{123, 1237, 124679, 12469, 13478, 1348, 16789, 1689, 2345789, 234589, 25678, 2568, 3579, 359, 456, 4567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1283}\sqrt{340518}e^{12}, \frac{2}{1283}\sqrt{25897}e^{13} + \frac{3}{1283}\sqrt{1102}e^{24}$	$\left(\frac{179}{1283}, -\frac{195}{1283}, \frac{11}{1283}, \frac{385}{1283}, \frac{535}{1283}, -\frac{372}{1283}, -\frac{166}{1283}, -\frac{16}{1283}, \frac{190}{1283}\right)$ $+ \frac{1}{1283}\sqrt{298642}e^4 \otimes e_7 + \frac{1}{1283}\sqrt{118465}e^5 \otimes e_8 + \frac{3}{1283}\sqrt{58406}e^1 \otimes e_6$	{12357, 12459, 1348, 1789, 234689, 2678, 35679, 456}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{225130}e^{12}, \frac{1}{1291}\sqrt{2874}e^{13} + \frac{6}{1291}\sqrt{6227}e^{24}$	$\left(\frac{230}{1291}, -\frac{364}{1291}, -\frac{249}{1291}, \frac{345}{1291}, \frac{460}{1291}, \frac{105}{1291}, \frac{105}{1291}, -\frac{134}{1291}, -\frac{19}{1291}\right)$ $+ \frac{1}{1291}\sqrt{340090}e^5 \otimes e_9 + \frac{1}{1291}\sqrt{342006}e^1 \otimes e_3 + \frac{2}{1291}\sqrt{113523}e^4 \otimes e_8$	{1245, 12456, 124567, 15678, 1568, 158}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{3003}e^{12}, \frac{1}{128}\sqrt{2002}e^{13} + \frac{1}{128}\sqrt{3003}e^{24}$	$\left(-\frac{25}{256}, -\frac{9}{64}, \frac{55}{128}, \frac{121}{256}, -\frac{9}{32}, \frac{15}{128}, \frac{15}{128}, -\frac{61}{256}, \frac{85}{256}\right)$ $+ \frac{1}{128}\sqrt{9282}e^3 \otimes e_5 + \frac{1}{64}\sqrt{2821}e^4 \otimes e_8$	{1234, 12346, 123467, 13678, 1368, 138, 236789, 23689, 2389, 34679, 3469, 349}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{923}e^{13} + \frac{2}{193}\sqrt{2130}e^{24}$	$\left(\frac{90}{193}, -\frac{39}{193}, -\frac{52}{193}, \frac{77}{193}, -\frac{65}{193}, \frac{21}{193}, \frac{21}{193}, \frac{51}{193}, \frac{38}{193}\right)$ $+ \frac{2}{193}\sqrt{6106}e^1 \otimes e_3 + \frac{2}{193}\sqrt{6106}e^4 \otimes e_5$	{124, 1246, 12467, 15678, 1568, 158, 234678, 23468, 2348, 35, 356, 3567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{435}e^{12}, \frac{2}{53}\sqrt{435}e^{13} + \frac{2}{53}\sqrt{203}e^{24}$	$\left(\frac{23}{53}, \frac{1}{53}, -\frac{6}{53}, \frac{16}{53}, -\frac{35}{53}, \frac{9}{53}, \frac{9}{53}, \frac{24}{53}, \frac{17}{53}\right)$ $+ \frac{4}{53}\sqrt{319}e^1 \otimes e_5$	{123, 1236, 12367, 124679, 12469, 1249, 134678, 13468, 1348, 16789, 1689, 189, 23456789, 2345689, 234589, 25678, 2568, 258, 35679, 3569, 359, 45, 456, 4567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12}, \frac{2}{193}\sqrt{2130}e^{13} + \frac{2}{193}\sqrt{923}e^{24}$	$\left(-\frac{39}{193}, \frac{4}{193}, \frac{77}{193}, \frac{34}{193}, \frac{107}{193}, -\frac{65}{193}, \frac{21}{193}, -\frac{35}{193}, \frac{38}{193}\right)$ $+ \frac{2}{193}\sqrt{6106}e^3 \otimes e_6 + \frac{2}{193}\sqrt{6106}e^5 \otimes e_8$	{1235, 12357, 1245679, 124569, 13478, 1348, 16789, 1689, 234789, 23489, 2678, 268, 3579, 359, 456, 4567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33}e^{12}, \frac{1}{25}\sqrt{11}e^{13} + \frac{1}{25}\sqrt{11}e^{24}$	$\left(\frac{4}{25}, -\frac{9}{50}, -\frac{7}{25}, \frac{3}{50}, \frac{21}{50}, \frac{8}{25}, \frac{2}{25}, -\frac{1}{50}, -\frac{3}{25}\right)$ $+ \frac{1}{25}\sqrt{187}e^1 \otimes e_3 + \frac{1}{25}\sqrt{187}e^5 \otimes e_8 + \frac{2}{25}\sqrt{33}e^6 \otimes e_9$	{12579, 1259, 14789, 1489, 23789, 2389, 34579, 3459}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{434}\sqrt{40710}e^{12}, \frac{1}{434}\sqrt{14691}e^{13} + \frac{3}{217}\sqrt{413}e^{24}$	$(\frac{15}{62}, \frac{85}{868}, -\frac{36}{217}, -\frac{19}{868}, \frac{121}{434}, -\frac{269}{868}, -\frac{4}{31}, \frac{295}{868}, \frac{33}{434})$ $+ \frac{177}{434}e^5 \otimes e_7 + \frac{1}{217}\sqrt{12921}e^1 \otimes e_3 + \frac{1}{434}\sqrt{59118}e^2 \otimes e_6$	{1245, 1247, 1568, 1678, 23458, 23478, 356, 367}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{379}\sqrt{2881}e^{12}, \frac{2}{379}\sqrt{4773}e^{13} + \frac{2}{379}\sqrt{903}e^{24}$	$(-\frac{19}{379}, -\frac{19}{379}, \frac{48}{379}, \frac{48}{379}, \frac{115}{379}, -\frac{105}{379}, \frac{27}{379}, -\frac{38}{379}, \frac{29}{379})$ $+ \frac{4}{379}\sqrt{1419}e^1 \otimes e_6 + \frac{4}{379}\sqrt{1419}e^3 \otimes e_8 + \frac{4}{379}\sqrt{946}e^5 \otimes e_9$	{1235, 12357, 1789, 189, 25678, 2568, 3679, 369}
92:3	$0, 0, 0, 0, 0, 0, \frac{60}{119}e^{12}, \frac{10}{119}\sqrt{7}e^{13} + \frac{10}{119}\sqrt{7}e^{24}$	$(\frac{22}{119}, \frac{22}{119}, -\frac{4}{17}, -\frac{4}{17}, \frac{33}{119}, -\frac{1}{7}, \frac{8}{119}, \frac{44}{119}, -\frac{6}{119})$ $+ \frac{10}{119}\sqrt{43}e^1 \otimes e_3 - \frac{10}{119}\sqrt{43}e^2 \otimes e_4 + \frac{50}{119}e^5 \otimes e_6$	{125, 1257, 126, 1267, 14578, 1458, 14678, 1468, 345, 3457, 346, 3467}
92:3	$0, 0, 0, 0, 0, 0, \frac{60}{119}e^{12}, \frac{10}{119}\sqrt{7}e^{13} + \frac{10}{119}\sqrt{7}e^{24}$	$(\frac{22}{119}, \frac{22}{119}, -\frac{4}{17}, -\frac{4}{17}, \frac{33}{119}, -\frac{1}{7}, \frac{8}{119}, \frac{44}{119}, -\frac{6}{119})$ $+ \frac{10}{119}\sqrt{43}e^1 \otimes e_3 + \frac{10}{119}\sqrt{43}e^2 \otimes e_4 + \frac{50}{119}e^5 \otimes e_6$	{125, 1257, 126, 1267, 14578, 1458, 14678, 1468, 345, 3457, 346, 3467}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{3061}\sqrt{225130}e^{12}, \frac{2}{3061}\sqrt{2874}e^{13} + \frac{12}{3061}\sqrt{6227}e^{24}$	$(\frac{460}{3061}, -\frac{728}{3061}, -\frac{498}{3061}, \frac{690}{3061}, \frac{689}{3061}, -\frac{269}{3061}, \frac{920}{3061}, -\frac{268}{3061}, -\frac{38}{3061})$ $+ \frac{2}{3061}\sqrt{340090}e^7 \otimes e_9 + \frac{2}{3061}\sqrt{342006}e^1 \otimes e_3 + \frac{4}{3061}\sqrt{113523}e^4 \otimes e_8 + \frac{958}{3061}e^5 \otimes e_6$	{12457, 12467, 1578, 1678}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{203}e^{12}, \frac{1}{41}\sqrt{435}e^{13} + \frac{1}{41}\sqrt{435}e^{24}$	$(\frac{1}{82}, \frac{1}{82}, -\frac{3}{41}, -\frac{3}{41}, \frac{19}{41}, \frac{53}{41}, \frac{10}{41}, \frac{1}{41}, -\frac{5}{82})$ $+ \frac{29}{41}e^5 \otimes e_7 + \frac{2}{41}\sqrt{319}e^6 \otimes e_9$	{1234568, 1234678, 12589, 12789, 1356, 1367, 1459, 1479, 34589, 34789, 568, 678}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{225130}e^{12}, \frac{6}{1291}\sqrt{6227}e^{13} + \frac{1}{1291}\sqrt{2874}e^{24}$	$(\frac{110}{1291}, -\frac{127}{1291}, -\frac{129}{1291}, \frac{108}{1291}, \frac{462}{1291}, \frac{460}{1291}, -\frac{369}{1291}, -\frac{17}{1291}, -\frac{19}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^6 \otimes e_9 + \frac{1}{1291}\sqrt{342006}e^5 \otimes e_8 + \frac{2}{1291}\sqrt{113523}e^1 \otimes e_7$	{12356, 12459, 13468, 189, 234789, 2678, 3579, 4567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{136}\sqrt{3498}e^{12}, \frac{1}{136}\sqrt{759}e^{13} + \frac{1}{136}\sqrt{759}e^{24}$	$(\frac{1}{16}, \frac{1}{16}, -\frac{49}{272}, -\frac{49}{272}, \frac{25}{68}, \frac{7}{136}, \frac{7}{136}, \frac{1}{8}, -\frac{2}{17})$ $+ \frac{1}{136}\sqrt{2838}e^1 \otimes e_3 - \frac{1}{136}\sqrt{2838}e^2 \otimes e_4 + \frac{1}{136}\sqrt{2838}e^5 \otimes e_8$	{125, 1256, 12567, 14678, 1468, 148, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{136}\sqrt{3498}e^{12}, \frac{1}{136}\sqrt{759}e^{13} + \frac{1}{136}\sqrt{759}e^{24}$	$(\frac{1}{16}, \frac{1}{16}, -\frac{49}{272}, -\frac{49}{272}, \frac{25}{68}, \frac{7}{136}, \frac{7}{136}, \frac{1}{8}, -\frac{2}{17})$ $+ \frac{1}{136}\sqrt{2838}e^1 \otimes e_3 + \frac{1}{136}\sqrt{2838}e^2 \otimes e_4 + \frac{1}{136}\sqrt{2838}e^5 \otimes e_8$	{125, 1256, 12567, 14678, 1468, 148, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, \frac{6}{133}\sqrt{70}e^{12}, \frac{6}{133}\sqrt{70}e^{13} + \frac{3}{133}\sqrt{155}e^{24}$	$(\frac{4}{133}, -\frac{3}{133}, \frac{18}{133}, \frac{25}{133}, \frac{46}{133}, -\frac{41}{133}, -\frac{27}{133}, \frac{1}{133}, \frac{22}{133})$ $+ \frac{3}{133}\sqrt{365}e^3 \otimes e_7 + \frac{3}{133}\sqrt{365}e^5 \otimes e_8 + \frac{3}{133}\sqrt{505}e^1 \otimes e_6$	{1235, 124579, 1348, 1789, 234689, 2678, 3569, 4567}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{3021}e^{12}, \frac{2}{197}\sqrt{689}e^{13} + \frac{2}{197}\sqrt{689}e^{24}$	$(\frac{39}{197}, \frac{39}{197}, \frac{8}{197}, \frac{8}{197}, -\frac{67}{197}, -\frac{67}{197}, \frac{21}{197}, \frac{78}{197}, \frac{47}{197})$ $+ \frac{4}{197}\sqrt{1166}e^1 \otimes e_5 + \frac{4}{197}\sqrt{1166}e^2 \otimes e_6$	{1234, 12347, 1279, 129, 13678, 1368, 146789, 14689, 345679, 34569, 56, 567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{2874}e^{12}, \frac{6}{1291}\sqrt{6227}e^{13} + \frac{1}{1291}\sqrt{225130}e^{24}$	$(\frac{229}{1291}, -\frac{127}{1291}, -\frac{129}{1291}, \frac{227}{1291}, \frac{579}{1291}, -\frac{250}{1291}, \frac{252}{1291}, \frac{102}{1291}, \frac{100}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^1 \otimes e_6 + \frac{1}{1291}\sqrt{342006}e^4 \otimes e_7 + \frac{2}{1291}\sqrt{113523}e^5 \otimes e_9$	{123458, 12789, 1357, 149, 23679, 2456, 34689, 5678}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{225130}e^{12}, \frac{1}{1291}\sqrt{2874}e^{13} + \frac{6}{1291}\sqrt{6227}e^{24}$	$(\frac{230}{1291}, \frac{110}{1291}, -\frac{249}{1291}, -\frac{129}{1291}, \frac{460}{1291}, -\frac{369}{1291}, \frac{105}{1291}, \frac{340}{1291}, -\frac{19}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^5 \otimes e_9 + \frac{1}{1291}\sqrt{342006}e^1 \otimes e_3 + \frac{2}{1291}\sqrt{113523}e^2 \otimes e_6$	{1245, 12457, 15678, 1568, 234578, 23458, 356, 3567}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{3021}e^{12}, \frac{2}{197}\sqrt{689}e^{13} + \frac{2}{197}\sqrt{689}e^{24}$	$(\frac{39}{197}, -\frac{49}{197}, \frac{8}{197}, \frac{96}{197}, -\frac{67}{197}, \frac{21}{197}, \frac{21}{197}, -\frac{10}{197}, \frac{47}{197})$ $+ \frac{4}{197}\sqrt{1166}e^1 \otimes e_5 + \frac{4}{197}\sqrt{1166}e^4 \otimes e_8$	{1234, 12346, 123467, 13678, 1368, 138, 2356789, 235689, 23589, 345679, 34569, 3459}
92:3	$0, 0, 0, 0, 0, 0, \frac{3}{1283}\sqrt{1102}e^{12}, \frac{1}{1283}\sqrt{340518}e^{13} + \frac{2}{1283}\sqrt{25897}e^{24}$	$(-\frac{195}{1283}, \frac{20}{1283}, \frac{226}{1283}, \frac{11}{1283}, \frac{376}{1283}, \frac{582}{1283}, -\frac{325}{1283}, -\frac{175}{1283}, \frac{31}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^5 \otimes e_8 + \frac{2}{1283}\sqrt{118465}e^3 \otimes e_7 + \frac{3}{1283}\sqrt{58406}e^6 \otimes e_9$	{123468, 12789, 1356, 14579, 2359, 24567, 3489, 678}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{30}e^{12}, \frac{1}{18}\sqrt{30}e^{13} + \frac{1}{18}\sqrt{30}e^{24}$	$(\frac{1}{9}, -\frac{7}{36}, -\frac{1}{18}, \frac{1}{4}, \frac{7}{18}, -\frac{2}{9}, \frac{1}{12}, -\frac{1}{12}, \frac{1}{18})$ $+ \frac{1}{18}\sqrt{66}e^1 \otimes e_6 + \frac{1}{18}\sqrt{66}e^4 \otimes e_8 + \frac{1}{18}\sqrt{66}e^5 \otimes e_9$	{12345, 123457, 13578, 1358, 236789, 23689, 34679, 3469}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{30}e^{12}, \frac{1}{18}\sqrt{30}e^{13} + \frac{1}{18}\sqrt{30}e^{24}$	$(\frac{1}{9}, \frac{1}{9}, -\frac{1}{18}, -\frac{1}{18}, \frac{7}{18}, -\frac{2}{9}, -\frac{2}{9}, \frac{2}{9}, \frac{1}{18})$ $+ \frac{1}{18}\sqrt{66}e^1 \otimes e_6 + \frac{1}{18}\sqrt{66}e^2 \otimes e_7 + \frac{1}{18}\sqrt{66}e^5 \otimes e_9$	{12345, 129, 13578, 14789, 34679, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{203}e^{12}, \frac{2}{53}\sqrt{435}e^{13} + \frac{2}{53}\sqrt{435}e^{24}$	$(\frac{1}{53}, \frac{1}{53}, -\frac{6}{53}, -\frac{6}{53}, 1, \frac{9}{53}, \frac{9}{53}, \frac{2}{53}, -\frac{5}{53})$ $+ \frac{4}{53}\sqrt{319}e^5 \otimes e_9$	{12345678, 1234568, 123458, 126789, 12689, 1289, 135, 1356, 13567, 14679, 1469, 149, 346789, 34689, 3489, 5678, 568, 58}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{125}\sqrt{3021}e^{12}, \frac{1}{125}\sqrt{689}e^{13} + \frac{1}{125}\sqrt{689}e^{24}$	$(\frac{39}{250}, -\frac{49}{250}, \frac{4}{125}, \frac{48}{125}, \frac{37}{125}, -\frac{67}{250}, -\frac{16}{125}, -\frac{1}{25}, \frac{47}{250})$ $+ \frac{2}{125}\sqrt{1166}e^1 \otimes e_6 + \frac{2}{125}\sqrt{1166}e^4 \otimes e_8 + \frac{53}{125}e^5 \otimes e_7$	{12345, 12347, 1358, 1378, 235689, 236789, 34569, 34679}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{30}{47}e^{12}, \frac{5}{47}\sqrt{7}e^{13} + \frac{5}{47}\sqrt{7}e^{24}$	$(\frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, -\frac{14}{47}, \frac{4}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{43}e^1 \otimes e_3 + \frac{5}{47}\sqrt{43}e^2 \otimes e_4$	{12, 125, 1256, 12567, 145678, 14568, 1458, 148, 34, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{30}{47}e^{12}, \frac{5}{47}\sqrt{7}e^{13} + \frac{5}{47}\sqrt{7}e^{24}$	$(\frac{11}{47}, \frac{11}{47}, -\frac{14}{47}, -\frac{14}{47}, \frac{4}{47}, \frac{4}{47}, \frac{4}{47}, \frac{22}{47}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{43}e^1 \otimes e_3 - \frac{5}{47}\sqrt{43}e^2 \otimes e_4$	{12, 125, 1256, 12567, 145678, 14568, 1458, 148, 34, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{53}\sqrt{435}e^{12}, \frac{2}{53}\sqrt{435}e^{13} + \frac{2}{53}\sqrt{203}e^{24}$	$(-\frac{21}{53}, \frac{1}{53}, \frac{38}{53}, \frac{16}{53}, \frac{9}{53}, \frac{9}{53}, \frac{9}{53}, -\frac{20}{53}, \frac{17}{53})$ $+ \frac{4}{53}\sqrt{319}e^3 \otimes e_8$	{123, 1235, 12356, 123567, 156789, 15689, 1589, 189, 25678, 2568, 258, 28, 35679, 3569, 359, 39}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1283}\sqrt{1102}e^{12}, \frac{2}{1283}\sqrt{25897}e^{13} + \frac{1}{1283}\sqrt{340518}e^{24}$	$(\frac{291}{1283}, -\frac{195}{1283}, -\frac{260}{1283}, \frac{226}{1283}, \frac{582}{1283}, -\frac{325}{1283}, \frac{105}{1283}, \frac{96}{1283}, \frac{31}{1283})$ $+ \frac{1}{1283}\sqrt{298642}e^1 \otimes e_3 + \frac{2}{1283}\sqrt{118465}e^4 \otimes e_6 + \frac{3}{1283}\sqrt{58406}e^5 \otimes e_9$	{126789, 12689, 1479, 149, 23679, 2369, 34789, 3489}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{3498}e^{12}, \frac{2}{305}\sqrt{759}e^{13} + \frac{2}{305}\sqrt{759}e^{24}$	$(\frac{17}{305}, \frac{17}{305}, -\frac{49}{305}, -\frac{49}{305}, \frac{47}{305}, -\frac{19}{305}, \frac{20}{61}, \frac{34}{305}, -\frac{32}{305})$ $+ \frac{2}{305}\sqrt{2838}e^1 \otimes e_3 - \frac{2}{305}\sqrt{2838}e^2 \otimes e_4 + \frac{2}{305}\sqrt{2838}e^7 \otimes e_8 + \frac{66}{305}e^5 \otimes e_6$	{1257, 1267, 1458, 1468, 3457, 3467}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{305}\sqrt{3498}e^{12}, \frac{2}{305}\sqrt{759}e^{13} + \frac{2}{305}\sqrt{759}e^{24}$	$(\frac{17}{305}, \frac{17}{305}, -\frac{49}{305}, -\frac{49}{305}, \frac{47}{305}, -\frac{19}{305}, \frac{20}{61}, \frac{34}{305}, -\frac{32}{305})$ $+ \frac{2}{305}\sqrt{2838}e^1 \otimes e_3 + \frac{2}{305}\sqrt{2838}e^2 \otimes e_4 + \frac{2}{305}\sqrt{2838}e^7 \otimes e_8 + \frac{66}{305}e^5 \otimes e_6$	{1257, 1267, 1458, 1468, 3457, 3467}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12}, \frac{1}{13}\sqrt{21}e^{13} + \frac{1}{13}\sqrt{21}e^{24}$	$(\frac{3}{26}, \frac{3}{26}, \frac{2}{13}, \frac{2}{13}, 1, -\frac{8}{13}, \frac{5}{26}, \frac{3}{13}, \frac{7}{26})$ $+ \frac{21}{13}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 12579, 1259, 12679, 1269, 13578, 1358, 13678, 1368, 145789, 14589, 146789, 14689, 34579, 3459, 34679, 3469, 5, 57, 6, 67}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{2130}e^{12}, \frac{1}{132}\sqrt{923}e^{13} + \frac{1}{132}\sqrt{2130}e^{24}$	$(\frac{15}{44}, -\frac{13}{88}, -\frac{13}{66}, \frac{7}{24}, \frac{23}{66}, -\frac{65}{264}, -\frac{25}{132}, \frac{17}{88}, \frac{19}{132})$ $+ \frac{1}{132}\sqrt{6106}e^1 \otimes e_3 + \frac{1}{132}\sqrt{6106}e^4 \otimes e_6 + \frac{71}{132}e^5 \otimes e_7$	{1245, 1247, 1568, 1678, 23458, 23478, 356, 367}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1291}\sqrt{2874}e^{12}, \frac{1}{1291}\sqrt{225130}e^{13} + \frac{6}{1291}\sqrt{6227}e^{24}$	$(-\frac{127}{1291}, -\frac{126}{1291}, \frac{227}{1291}, \frac{226}{1291}, \frac{579}{1291}, -\frac{252}{1291}, \frac{105}{1291}, -\frac{253}{1291}, \frac{100}{1291})$ $+ \frac{1}{1291}\sqrt{340090}e^4 \otimes e_8 + \frac{1}{1291}\sqrt{342006}e^3 \otimes e_6 + \frac{2}{1291}\sqrt{113523}e^5 \otimes e_9$	{126789, 12689, 14679, 1469, 2456, 24567, 5678, 568}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{2546}e^{12}, \frac{2}{171}\sqrt{335}e^{13} + \frac{2}{171}\sqrt{335}e^{24}$	$(\frac{71}{171}, -\frac{5}{57}, -\frac{7}{19}, \frac{23}{171}, \frac{85}{171}, -\frac{49}{171}, \frac{2}{19}, \frac{56}{171}, \frac{8}{171})$ $+ \frac{134}{171}e^5 \otimes e_6 + \frac{2}{171}\sqrt{5762}e^1 \otimes e_3$	{125, 1257, 126, 1267, 14578, 1458, 14678, 1468, 23578, 2358, 23678, 2368, 345, 3457, 346, 3467}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33}e^{12}, \frac{1}{25}\sqrt{11}e^{13} + \frac{1}{25}\sqrt{11}e^{24}$	$(\frac{4}{25}, \frac{4}{25}, -\frac{7}{25}, -\frac{7}{25}, \frac{8}{25}, \frac{2}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{3}{25})$ $+ \frac{1}{25}\sqrt{187}e^1 \otimes e_3 - \frac{1}{25}\sqrt{187}e^2 \otimes e_4 + \frac{2}{25}\sqrt{33}e^5 \otimes e_9$	{12679, 1269, 129, 146789, 14689, 1489, 34679, 3469, 349}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{25}\sqrt{33}e^{12}, \frac{1}{25}\sqrt{11}e^{13} + \frac{1}{25}\sqrt{11}e^{24}$	$(\frac{4}{25}, \frac{4}{25}, -\frac{7}{25}, -\frac{7}{25}, \frac{8}{25}, \frac{2}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{3}{25})$ $+ \frac{1}{25}\sqrt{187}e^1 \otimes e_3 + \frac{1}{25}\sqrt{187}e^2 \otimes e_4 + \frac{2}{25}\sqrt{33}e^5 \otimes e_9$	{12679, 1269, 129, 146789, 14689, 1489, 34679, 3469, 349}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{2}{691}\sqrt{14691}e^{13} + \frac{12}{691}\sqrt{413}e^{24}$	$(\frac{210}{691}, \frac{85}{691}, -\frac{144}{691}, -\frac{19}{691}, -\frac{269}{691}, \frac{65}{691}, \frac{65}{691}, \frac{295}{691}, \frac{66}{691})$ $+ \frac{2}{691}\sqrt{59118}e^2 \otimes e_5 + \frac{4}{691}\sqrt{12921}e^1 \otimes e_3$	{124, 1246, 12467, 15678, 1568, 158, 234678, 23468, 2348, 35, 356, 3567}
92:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{3003}e^{12}, \frac{1}{128}\sqrt{3003}e^{13} + \frac{1}{128}\sqrt{2002}e^{24}$	$(\frac{11}{32}, -\frac{25}{256}, -\frac{3}{256}, \frac{55}{128}, -\frac{47}{128}, -\frac{9}{32}, \frac{15}{128}, \frac{63}{256}, \frac{85}{256})$ $+ \frac{1}{128}\sqrt{9282}e^4 \otimes e_6 + \frac{1}{64}\sqrt{2821}e^1 \otimes e_5$	{1234, 12347, 12679, 1269, 13678, 1368, 14789, 1489, 2356789, 235689, 24578, 2458, 34579, 3459, 56, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{50}\sqrt{322}e^{12}, \frac{1}{50}\sqrt{69}e^{13} + \frac{3}{100}\sqrt{46}e^{24}$	$(\frac{19}{200}, -\frac{1}{100}, -\frac{27}{200}, -\frac{3}{100}, \frac{63}{200}, -\frac{6}{25}, \frac{19}{100}, \frac{17}{200}, -\frac{1}{25})$ $+ \frac{1}{100}\sqrt{1173}e^1 \otimes e_3 + \frac{1}{100}\sqrt{1173}e^5 \otimes e_8 + \frac{1}{100}\sqrt{598}e^7 \otimes e_9 + \frac{1}{50}\sqrt{345}e^2 \otimes e_6$	{12457, 1678, 23478, 3567}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{14691}e^{12}, \frac{2}{691}\sqrt{40710}e^{13} + \frac{12}{691}\sqrt{413}e^{24}$	$(-\frac{82}{691}, \frac{64}{691}, \frac{127}{691}, -\frac{19}{691}, \frac{399}{691}, \frac{227}{691}, \frac{65}{691}, -\frac{18}{691}, \frac{45}{691})$ $+ \frac{2}{691}\sqrt{59118}e^5 \otimes e_9 + \frac{4}{691}\sqrt{12921}e^3 \otimes e_6$	{1234578, 123458, 126789, 12689, 135, 1357, 14679, 1469, 2379, 239, 2456, 24567, 34789, 3489, 5678, 568}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{7}e^{12}, \frac{1}{6}\sqrt{7}e^{13} + \frac{1}{3}e^{24}$	$(-\frac{1}{24}, -\frac{1}{24}, \frac{1}{4}, \frac{1}{4}, -\frac{3}{8}, \frac{1}{12}, \frac{1}{12}, -\frac{1}{12}, \frac{5}{24})$ $+ \frac{1}{6}\sqrt{11}e^1 \otimes e_5 + \frac{1}{6}\sqrt{11}e^3 \otimes e_8$	{123, 1236, 12367, 16789, 1689, 189, 25678, 2568, 258, 35679, 3569, 359}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2002}e^{12}, \frac{1}{128}\sqrt{3003}e^{13} + \frac{1}{128}\sqrt{3003}e^{24}$	$(\frac{77}{256}, -\frac{25}{256}, -\frac{105}{256}, -\frac{3}{256}, \frac{77}{128}, \frac{15}{128}, \frac{15}{128}, \frac{13}{64}, -\frac{7}{64})$ $+ \frac{1}{128}\sqrt{9282}e^1 \otimes e_3 + \frac{1}{64}\sqrt{2821}e^5 \otimes e_9$	{12679, 1269, 129, 146789, 14689, 1489, 236789, 23689, 2389, 34679, 3469, 349}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{7}e^{12}, \frac{1}{7}\sqrt{7}e^{13} + \frac{2}{7}e^{24}$	$(-\frac{1}{28}, -\frac{1}{28}, \frac{3}{14}, \frac{3}{14}, \frac{3}{14}, -\frac{9}{28}, -\frac{1}{14}, -\frac{1}{14}, \frac{5}{28})$ $+ \frac{1}{7}\sqrt{11}e^1 \otimes e_6 + \frac{1}{7}\sqrt{11}e^3 \otimes e_8 + \frac{2}{7}e^5 \otimes e_7$	{1235, 1237, 1589, 1789, 2568, 2678, 3569, 3679}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12}, \frac{1}{52}\sqrt{335}e^{13} + \frac{1}{52}\sqrt{335}e^{24}$	$(-\frac{15}{104}, -\frac{15}{104}, \frac{23}{104}, \frac{23}{104}, 1, \frac{9}{52}, \frac{9}{52}, -\frac{15}{52}, \frac{1}{13})$ $+ \frac{1}{52}\sqrt{5762}e^5 \otimes e_8$	{12345679, 1234569, 123459, 125, 1256, 12567, 136789, 13689, 1389, 14678, 1468, 148, 345, 3456, 34567, 5679, 569, 59}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{435}e^{12}, \frac{1}{41}\sqrt{435}e^{13} + \frac{1}{41}\sqrt{203}e^{24}$	$(\frac{23}{82}, \frac{1}{82}, -\frac{3}{41}, \frac{8}{41}, \frac{19}{41}, -\frac{35}{82}, -\frac{10}{41}, \frac{12}{41}, \frac{17}{82})$ $+ \frac{29}{41}e^5 \otimes e_7 + \frac{2}{41}\sqrt{319}e^1 \otimes e_6$	{1235, 1237, 12459, 12479, 13458, 13478, 1589, 1789, 2345689, 2346789, 2568, 2678, 3569, 3679, 456, 467}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{923}e^{12}, \frac{2}{193}\sqrt{2130}e^{13} + \frac{2}{193}\sqrt{2130}e^{24}$	$(\frac{4}{193}, \frac{4}{193}, \frac{77}{193}, \frac{77}{193}, -\frac{65}{193}, -\frac{65}{193}, \frac{21}{193}, \frac{8}{193}, \frac{81}{193})$ $+ \frac{2}{193}\sqrt{6106}e^3 \otimes e_5 + \frac{2}{193}\sqrt{6106}e^4 \otimes e_6$	{123478, 12348, 1256789, 125689, 136, 1367, 14579, 1459, 34789, 3489, 5678, 568}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{2}{691}\sqrt{14691}e^{13} + \frac{12}{691}\sqrt{413}e^{24}$	$(\frac{210}{691}, -\frac{249}{691}, \frac{144}{691}, \frac{315}{691}, \frac{65}{691}, \frac{65}{691}, \frac{65}{691}, -\frac{39}{691}, \frac{66}{691})$ $+ \frac{2}{691}\sqrt{59118}e^4 \otimes e_8 + \frac{4}{691}\sqrt{12921}e^1 \otimes e_3$	{124, 1245, 12456, 124567, 15678, 1568, 158, 18}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{335}e^{12}, \frac{1}{52}\sqrt{2546}e^{13} + \frac{1}{52}\sqrt{335}e^{24}$	$(-\frac{15}{104}, \frac{7}{26}, \frac{33}{52}, \frac{23}{104}, -\frac{17}{26}, \frac{9}{52}, \frac{9}{52}, \frac{1}{8}, \frac{51}{104})$ $+ \frac{1}{52}\sqrt{5762}e^3 \otimes e_5$	{123678, 12368, 1238, 12456789, 1245689, 124589, 134, 1346, 13467, 15679, 1569, 159, 234679, 23469, 2349, 25, 256, 2567, 36789, 3689, 389, 45678, 4568, 458}
92:3	$0, 0, 0, 0, 0, 0, \frac{20}{371}\sqrt{79}e^{12}, \frac{2}{371}\sqrt{2291}e^{13} + \frac{2}{371}\sqrt{1106}e^{24}$	$(\frac{85}{371}, -\frac{87}{371}, -\frac{73}{371}, \frac{99}{371}, \frac{156}{371}, -\frac{59}{371}, \frac{27}{371}, -\frac{2}{371}, \frac{12}{371})$ $+ \frac{2}{371}\sqrt{10191}e^1 \otimes e_3 + \frac{2}{371}\sqrt{10191}e^5 \otimes e_8 + \frac{2}{371}\sqrt{6794}e^4 \otimes e_6$	{1245, 12457, 1678, 168, 23478, 2348, 356, 3567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2002}e^{12}, \frac{1}{128}\sqrt{3003}e^{13} + \frac{1}{128}\sqrt{3003}e^{24}$	$(-\frac{25}{256}, -\frac{25}{256}, -\frac{3}{256}, -\frac{3}{256}, \frac{33}{64}, \frac{77}{128}, \frac{15}{128}, -\frac{25}{128}, -\frac{7}{64})$ $+ \frac{1}{128}\sqrt{9282}e^5 \otimes e_8 + \frac{1}{64}\sqrt{2821}e^6 \otimes e_9$	{123456, 1234567, 12579, 1259, 13678, 1368, 14789, 1489, 34579, 3459, 56, 567}
92:3	$0, 0, 0, 0, 0, 0, \frac{3}{133}\sqrt{155}e^{12}, \frac{6}{133}\sqrt{70}e^{13} + \frac{6}{133}\sqrt{70}e^{24}$	$(-\frac{3}{133}, -\frac{3}{133}, \frac{18}{133}, \frac{18}{133}, \frac{60}{133}, -\frac{27}{133}, -\frac{27}{133}, -\frac{6}{133}, \frac{15}{133})$ $+ \frac{3}{133}\sqrt{365}e^3 \otimes e_6 + \frac{3}{133}\sqrt{365}e^4 \otimes e_7 + \frac{3}{133}\sqrt{505}e^5 \otimes e_9$	{123458, 126789, 1357, 1469, 3489, 5678}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{479}\sqrt{10370}e^{12}, \frac{2}{479}\sqrt{3355}e^{13} + \frac{4}{479}\sqrt{366}e^{24}$	$(\frac{60}{479}, -\frac{7}{479}, -\frac{62}{479}, \frac{5}{479}, \frac{175}{479}, -\frac{129}{479}, \frac{29}{479}, \frac{53}{479}, -\frac{2}{479})$ $+ \frac{2}{479}\sqrt{8906}e^1 \otimes e_3 + \frac{2}{479}\sqrt{8906}e^5 \otimes e_8 + \frac{2}{479}\sqrt{9638}e^2 \otimes e_6$	{1245, 12457, 1678, 168, 23478, 2348, 356, 3567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{296}\sqrt{7289}e^{12}, \frac{1}{296}\sqrt{985}e^{13} + \frac{1}{592}\sqrt{31126}e^{24}$	$(\frac{183}{1184}, -\frac{113}{592}, -\frac{211}{1184}, \frac{99}{592}, \frac{351}{1184}, -\frac{49}{296}, \frac{183}{592}, -\frac{43}{1184}, -\frac{7}{296})$ $+ \frac{1}{296}\sqrt{13593}e^4 \otimes e_6 + \frac{1}{592}\sqrt{53387}e^1 \otimes e_3 + \frac{1}{592}\sqrt{53387}e^5 \otimes e_8 + \frac{1}{592}\sqrt{56342}e^7 \otimes e_9$	{12569, 1489, 23689, 3459}
92:3	$0, 0, 0, 0, 0, 0, \frac{3}{535}\sqrt{5882}e^{12}, \frac{12}{535}\sqrt{17}e^{13} + \frac{12}{535}\sqrt{17}e^{24}$	$(\frac{24}{535}, \frac{24}{535}, \frac{6}{107}, \frac{6}{107}, \frac{201}{535}, \frac{129}{535}, \frac{129}{535}, \frac{48}{535}, \frac{54}{535})$ $+ \frac{3}{535}\sqrt{5542}e^5 \otimes e_8 + \frac{3}{535}\sqrt{5678}e^1 \otimes e_6 + \frac{3}{535}\sqrt{5678}e^2 \otimes e_7$	{12345, 1259, 1378, 14789, 345679, 567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{691}\sqrt{40710}e^{12}, \frac{12}{691}\sqrt{413}e^{13} + \frac{2}{691}\sqrt{14691}e^{24}$	$(\frac{85}{691}, \frac{82}{691}, \frac{19}{691}, \frac{148}{691}, \frac{357}{691}, \frac{269}{691}, \frac{65}{691}, \frac{3}{691}, \frac{66}{691})$ $+ \frac{2}{691}\sqrt{59118}e^1 \otimes e_6 + \frac{4}{691}\sqrt{12921}e^5 \otimes e_8$	{1235, 12357, 124579, 12459, 13478, 1348, 1789, 189, 2346789, 234689, 2678, 268, 35679, 3569, 456, 4567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12}, \frac{1}{52}\sqrt{335}e^{13} + \frac{1}{52}\sqrt{335}e^{24}$	$(\frac{71}{104}, -\frac{15}{104}, \frac{63}{104}, \frac{23}{104}, \frac{9}{52}, \frac{9}{52}, \frac{9}{52}, \frac{7}{13}, \frac{1}{13})$ $+ \frac{1}{52}\sqrt{5762}e^1 \otimes e_3$	{12, 125, 1256, 12567, 145678, 14568, 1458, 148, 235678, 23568, 2358, 238, 34, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{335}e^{12}, \frac{2}{171}\sqrt{2546}e^{13} + \frac{2}{171}\sqrt{335}e^{24}$	$(-\frac{5}{57}, \frac{28}{171}, \frac{22}{57}, \frac{23}{171}, \frac{85}{171}, \frac{68}{171}, \frac{49}{171}, \frac{13}{171}, \frac{17}{57})$ $+ \frac{134}{171}e^5 \otimes e_7 + \frac{2}{171}\sqrt{5762}e^3 \otimes e_6$	{12358, 12378, 1245689, 1246789, 1345, 1347, 1569, 1679, 23459, 23479, 256, 267, 3589, 3789, 4568, 4678}
92:3	$0, 0, 0, 0, 0, 0, \frac{60}{119}e^{12}, \frac{10}{119}\sqrt{7}e^{13} + \frac{10}{119}\sqrt{7}e^{24}$	$(\frac{22}{119}, -\frac{3}{17}, -\frac{4}{17}, \frac{15}{119}, \frac{33}{119}, \frac{3}{7}, -\frac{1}{7}, \frac{1}{119}, -\frac{6}{119})$ $+ \frac{10}{119}\sqrt{43}e^1 \otimes e_3 + \frac{10}{119}\sqrt{43}e^6 \otimes e_8 + \frac{50}{119}e^5 \otimes e_7$	{1256, 1267, 1458, 1478, 2358, 2378, 3456, 3467}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{689}e^{12}, \frac{2}{197}\sqrt{3021}e^{13} + \frac{2}{197}\sqrt{689}e^{24}$	$(\frac{39}{197}, -\frac{5}{197}, \frac{36}{197}, \frac{8}{197}, \frac{109}{197}, \frac{67}{197}, \frac{21}{197}, \frac{34}{197}, \frac{3}{197})$ $+ \frac{4}{197}\sqrt{1166}e^1 \otimes e_6 + \frac{4}{197}\sqrt{1166}e^5 \otimes e_9$	{12345, 123457, 1279, 129, 13578, 1358, 14789, 1489, 236789, 23689, 245678, 24568, 34679, 3469, 56, 567}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{2002}e^{12}, \frac{2}{347}\sqrt{3003}e^{13} + \frac{2}{347}\sqrt{3003}e^{24}$	$(\frac{77}{347}, -\frac{25}{347}, \frac{105}{347}, \frac{3}{347}, \frac{121}{347}, \frac{154}{347}, \frac{61}{347}, \frac{52}{347}, \frac{28}{347})$ $+ \frac{182}{347}e^5 \otimes e_7 + \frac{2}{347}\sqrt{9282}e^1 \otimes e_3 + \frac{4}{347}\sqrt{2821}e^6 \otimes e_9$	{1259, 1279, 14589, 14789, 23589, 23789, 3459, 3479}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{172}\sqrt{5002}e^{12}, \frac{1}{172}\sqrt{861}e^{13} + \frac{1}{172}\sqrt{861}e^{24}$	$(\frac{19}{344}, \frac{19}{344}, -\frac{63}{344}, -\frac{63}{344}, \frac{15}{43}, \frac{9}{172}, \frac{19}{172}, \frac{19}{172}, -\frac{11}{86})$ $+ \frac{1}{172}\sqrt{4182}e^1 \otimes e_3 + \frac{1}{172}\sqrt{4182}e^2 \otimes e_4 + \frac{1}{172}\sqrt{4182}e^5 \otimes e_8 + \frac{1}{86}\sqrt{205}e^7 \otimes e_9$	{12567, 1257, 14678, 1478, 34567, 3457}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{172}\sqrt{5002}e^{12}, \frac{1}{172}\sqrt{861}e^{13} + \frac{1}{172}\sqrt{861}e^{24}$	$(\frac{19}{344}, \frac{19}{344}, -\frac{63}{344}, -\frac{63}{344}, \frac{15}{43}, \frac{9}{172}, \frac{19}{172}, \frac{19}{172}, -\frac{11}{86})$ $+ \frac{1}{172}\sqrt{4182}e^1 \otimes e_3 - \frac{1}{172}\sqrt{4182}e^2 \otimes e_4 + \frac{1}{172}\sqrt{4182}e^5 \otimes e_8 + \frac{1}{86}\sqrt{205}e^7 \otimes e_9$	{12567, 1257, 14678, 1478, 34567, 3457}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{434}\sqrt{40710}e^{12}, \frac{1}{434}\sqrt{14691}e^{13} + \frac{3}{217}\sqrt{413}e^{24}$	$(\frac{15}{62}, -\frac{249}{868}, \frac{36}{217}, \frac{45}{217}, \frac{121}{434}, \frac{4}{31}, \frac{65}{868}, \frac{39}{868}, \frac{33}{434})$ $+ \frac{177}{434}e^5 \otimes e_6 + \frac{1}{217}\sqrt{12921}e^1 \otimes e_3 + \frac{1}{434}\sqrt{59118}e^4 \otimes e_8$	{1245, 12457, 1246, 12467, 1578, 158, 1678, 168}
92:3	$0, 0, 0, 0, 0, 0, \frac{4}{61}\sqrt{33}e^{12}, \frac{2}{61}\sqrt{11}e^{13} + \frac{2}{61}\sqrt{11}e^{24}$	$(\frac{8}{61}, \frac{8}{61}, -\frac{14}{61}, -\frac{14}{61}, \frac{15}{61}, \frac{7}{61}, \frac{16}{61}, \frac{16}{61}, -\frac{6}{61})$ $+ \frac{22}{61}e^5 \otimes e_6 + \frac{2}{61}\sqrt{187}e^1 \otimes e_3 - \frac{2}{61}\sqrt{187}e^2 \otimes e_4 + \frac{4}{61}\sqrt{33}e^7 \otimes e_9$	{1259, 1269, 14589, 14689, 3459, 3469}
92:3	$0, 0, 0, 0, 0, 0, \frac{4}{61}\sqrt{33}e^{12}, \frac{2}{61}\sqrt{11}e^{13} + \frac{2}{61}\sqrt{11}e^{24}$	$(\frac{8}{61}, \frac{8}{61}, -\frac{14}{61}, -\frac{14}{61}, \frac{15}{61}, \frac{7}{61}, \frac{16}{61}, \frac{16}{61}, -\frac{6}{61})$ $+ \frac{22}{61}e^5 \otimes e_6 + \frac{2}{61}\sqrt{187}e^1 \otimes e_3 + \frac{2}{61}\sqrt{187}e^2 \otimes e_4 + \frac{4}{61}\sqrt{33}e^7 \otimes e_9$	{1259, 1269, 14589, 14689, 3459, 3469}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{197}\sqrt{689}e^{12}, \frac{2}{197}\sqrt{3021}e^{13} + \frac{2}{197}\sqrt{689}e^{24}$	$(-\frac{49}{197}, -\frac{5}{197}, \frac{52}{197}, \frac{8}{197}, \frac{109}{197}, \frac{21}{197}, \frac{21}{197}, -\frac{54}{197}, \frac{3}{197})$ $+ \frac{4}{197}\sqrt{1166}e^3 \otimes e_8 + \frac{4}{197}\sqrt{1166}e^5 \otimes e_9$	{12345, 123456, 1234567, 146789, 14689, 1489, 245678, 24568, 2458, 34679, 3469, 349}
92:3	$0, 0, 0, 0, 0, 0, \frac{2}{347}\sqrt{3003}e^{12}, \frac{2}{347}\sqrt{2002}e^{13} + \frac{2}{347}\sqrt{3003}e^{24}$	$(-\frac{25}{347}, -\frac{36}{347}, \frac{110}{347}, \frac{121}{347}, \frac{121}{347}, \frac{72}{347}, \frac{61}{347}, \frac{61}{347}, \frac{85}{347})$ $+ \frac{182}{347}e^5 \otimes e_7 + \frac{2}{347}\sqrt{9282}e^3 \otimes e_6 + \frac{4}{347}\sqrt{2821}e^4 \otimes e_8$	{12345, 12347, 1358, 1378, 23589, 23789, 3459, 3479}
92:3	$0, 0, 0, 0, 0, 0, \frac{30}{47}e^{12}, \frac{5}{47}\sqrt{7}e^{13} + \frac{5}{47}\sqrt{7}e^{24}$	$(\frac{11}{47}, -\frac{21}{94}, -\frac{14}{47}, \frac{15}{94}, \frac{51}{94}, \frac{4}{47}, \frac{4}{47}, \frac{1}{94}, -\frac{3}{47})$ $+ \frac{5}{47}\sqrt{43}e^1 \otimes e_3 + \frac{5}{47}\sqrt{43}e^5 \otimes e_8$	{125, 1256, 12567, 14678, 1468, 148, 23678, 2368, 238, 345, 3456, 34567}
92:3	$0, 0, 0, 0, 0, 0, \frac{12}{535}\sqrt{17}e^{12}, \frac{3}{535}\sqrt{5882}e^{13} + \frac{12}{535}\sqrt{17}e^{24}$	$(\frac{24}{535}, \frac{22}{535}, \frac{28}{535}, \frac{6}{107}, \frac{41}{107}, \frac{129}{535}, \frac{25}{107}, \frac{46}{535}, \frac{52}{535})$ $+ \frac{3}{535}\sqrt{5542}e^3 \otimes e_7 + \frac{3}{535}\sqrt{5678}e^1 \otimes e_6 + \frac{3}{535}\sqrt{5678}e^5 \otimes e_9$	{12345, 1279, 1358, 14789, 23689, 245678, 3469, 567}
92:3	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{435}e^{12}, \frac{1}{41}\sqrt{435}e^{13} + \frac{1}{41}\sqrt{203}e^{24}$	$(-\frac{21}{82}, \frac{1}{82}, \frac{19}{41}, \frac{8}{41}, \frac{19}{41}, \frac{10}{41}, \frac{9}{82}, \frac{10}{41}, \frac{17}{82})$ $+ \frac{29}{41}e^5 \otimes e_6 + \frac{2}{41}\sqrt{319}e^3 \otimes e_8$	{1235, 12357, 1236, 12367, 15789, 1589, 16789, 1689, 2578, 258, 2678, 268, 3579, 359, 3679, 369}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{283}\sqrt{10815}e^{13} + \frac{1}{283}\sqrt{10815}e^{24},$ $\frac{1}{283}\sqrt{105}e^{12} + \frac{1}{283}\sqrt{105}e^{34}$	$(\frac{50}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{50}{283}, \frac{127}{283}, -\frac{55}{283}, -\frac{55}{283}, \frac{22}{283}, \frac{22}{283})$ $+ \frac{4}{283}\sqrt{1365}e^5 \otimes e_8 + \frac{6}{283}\sqrt{455}e^1 \otimes e_6 + \frac{6}{283}\sqrt{455}e^4 \otimes e_7$	{123459, 12789, 1357, 148, 23678, 5679, 123459, 12789, 1357, 148, 23678, 5679}
92:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{283}\sqrt{10815}e^{13} + \frac{1}{283}\sqrt{10815}e^{24},$ $\frac{1}{283}\sqrt{105}e^{12} + \frac{1}{283}\sqrt{105}e^{34}$	$(\frac{50}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{50}{283}, \frac{127}{283}, -\frac{55}{283}, -\frac{55}{283}, \frac{22}{283}, \frac{22}{283})$ $+ \frac{4}{283}\sqrt{1365}e^5 \otimes e_8 + \frac{6}{283}\sqrt{455}e^1 \otimes e_6 + \frac{6}{283}\sqrt{455}e^4 \otimes e_7$	{123459, 12789, 1357, 148, 23678, 5679, 123459, 12789, 1357, 148, 23678, 5679}
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{31}\sqrt{627}e^{13} + \frac{1}{31}\sqrt{231}e^{24}, \frac{1}{31}\sqrt{627}e^{12} + \frac{1}{31}\sqrt{231}e^{34}$	$(\frac{12}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{12}{31}, -\frac{21}{31}, \frac{5}{31}, \frac{5}{31}, \frac{11}{31}, \frac{11}{31})$ $+ \frac{2}{31}\sqrt{429}e^1 \otimes e_5$	{123, 1236, 12367, 124678, 12468, 1248, 16789, 1689, 189, 23456789, 2345689, 234589, 25679, 2569, 259, 45, 456, 4567, 123, 1236, 12367, 124678, 12468, 1248, 16789, 1689, 189, 23456789, 2345689, 234589, 25679, 2569, 259, 45, 456, 4567}
92:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{13} + \frac{1}{31}\sqrt{231}e^{24}, \frac{1}{31}\sqrt{627}e^{12} + \frac{1}{31}\sqrt{231}e^{34}$	$(\frac{12}{31}, -\frac{1}{31}, -\frac{1}{31}, \frac{12}{31}, -\frac{21}{31}, \frac{5}{31}, \frac{5}{31}, \frac{11}{31}, \frac{11}{31})$ $+ \frac{2}{31}\sqrt{429}e^1 \otimes e_5$	{123, 1236, 12367, 124678, 12468, 1248, 16789, 1689, 189, 23456789, 2345689, 234589, 25679, 2569, 259, 45, 456, 4567, 123, 1236, 12367, 124678, 12468, 1248, 16789, 1689, 189, 23456789, 2345689, 234589, 25679, 2569, 259, 45, 456, 4567}
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{21}\sqrt{3}e^{13} + \frac{1}{21}\sqrt{3}e^{24}, \frac{3}{7}e^{12} + \frac{1}{21}\sqrt{3}e^{34}$	$(\frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{8}{21}, -\frac{5}{21}, -\frac{5}{21}, \frac{2}{21}, \frac{2}{21})$ $+ \frac{1}{21}\sqrt{78}e^1 \otimes e_6 + \frac{1}{21}\sqrt{78}e^2 \otimes e_7 + \frac{1}{21}\sqrt{78}e^5 \otimes e_9$	{12345, 1258, 1379, 14789, 345678, 567, 12345, 1258, 1379, 14789, 345678, 567}
92:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{3}e^{13} + \frac{1}{21}\sqrt{3}e^{24}, \frac{3}{7}e^{12} + \frac{1}{21}\sqrt{3}e^{34}$	$(\frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{1}{21}, \frac{8}{21}, -\frac{5}{21}, -\frac{5}{21}, \frac{2}{21}, \frac{2}{21})$ $+ \frac{1}{21}\sqrt{78}e^1 \otimes e_6 + \frac{1}{21}\sqrt{78}e^2 \otimes e_7 + \frac{1}{21}\sqrt{78}e^5 \otimes e_9$	{12345, 1258, 1379, 14789, 345678, 567, 12345, 1258, 1379, 14789, 345678, 567}
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{283}\sqrt{10815}e^{13} + \frac{1}{283}\sqrt{105}e^{24},$ $\frac{1}{283}\sqrt{10815}e^{12} + \frac{1}{283}\sqrt{105}e^{34}$	$(\frac{24}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{24}{283}, \frac{101}{283}, \frac{101}{283}, -\frac{81}{283}, -\frac{4}{283}, -\frac{4}{283})$ $+ \frac{4}{283}\sqrt{1365}e^1 \otimes e_7 + \frac{6}{283}\sqrt{455}e^5 \otimes e_8 + \frac{6}{283}\sqrt{455}e^6 \otimes e_9$	{12356, 12468, 189, 234789, 2579, 4567, 12356, 12468, 189, 234789, 2579, 4567}
92:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{283}\sqrt{10815}e^{13} + \frac{1}{283}\sqrt{105}e^{24},$ $\frac{1}{283}\sqrt{10815}e^{12} + \frac{1}{283}\sqrt{105}e^{34}$	$(\frac{24}{283}, -\frac{28}{283}, -\frac{28}{283}, \frac{24}{283}, \frac{101}{283}, \frac{101}{283}, -\frac{81}{283}, -\frac{4}{283}, -\frac{4}{283})$ $+ \frac{4}{283}\sqrt{1365}e^1 \otimes e_7 + \frac{6}{283}\sqrt{455}e^5 \otimes e_8 + \frac{6}{283}\sqrt{455}e^6 \otimes e_9$	{12356, 12468, 189, 234789, 2579, 4567, 12356, 12468, 189, 234789, 2579, 4567}
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{31}\sqrt{627}e^{13} + \frac{1}{31}\sqrt{627}e^{24}, \frac{1}{31}\sqrt{231}e^{12} + \frac{1}{31}\sqrt{231}e^{34}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, 1, \frac{5}{31}, \frac{5}{31}, -\frac{2}{31}, -\frac{2}{31})$ $+ \frac{2}{31}\sqrt{429}e^5 \otimes e_8$	{12345679, 1234569, 123459, 126789, 12689, 1289, 135, 1356, 13567, 14678, 1468, 148, 5679, 569, 59, 12345679, 1234569, 123459, 126789, 12689, 1289, 135, 1356, 13567, 14678, 1468, 148, 5679, 569, 59}
92:4	$0, 0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{627}e^{13} + \frac{1}{31}\sqrt{627}e^{24}, \frac{1}{31}\sqrt{231}e^{12} + \frac{1}{31}\sqrt{231}e^{34}$	$(-\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, -\frac{1}{31}, 1, \frac{5}{31}, \frac{5}{31}, -\frac{2}{31}, -\frac{2}{31})$ $+ \frac{2}{31}\sqrt{429}e^5 \otimes e_8$	{12345679, 1234569, 123459, 126789, 12689, 1289, 135, 1356, 13567, 14678, 1468, 148, 5679, 569, 59, 12345679, 1234569, 123459, 126789, 12689, 1289, 135, 1356, 13567, 14678, 1468, 148, 5679, 569, 59}
92:4	$0, 0, 0, 0, 0, 0, 0, -\frac{10}{31}e^{13} + \frac{10}{31}e^{24}, \frac{10}{31}e^{12} + \frac{10}{31}e^{34}$	$(\frac{4}{31}, \frac{4}{31}, \frac{4}{31}, \frac{4}{31}, 1, -\frac{19}{31}, \frac{6}{31}, \frac{8}{31}, \frac{8}{31})$ $+ \frac{50}{31}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 12578, 1258, 12678, 1268, 145789, 14589, 146789, 14689, 5, 57, 6, 67, 12345, 123457, 12346, 123467, 12578, 1258, 12678, 1268, 145789, 14589, 146789, 14689, 5, 57, 6, 67}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:4	$0, 0, 0, 0, 0, 0, \frac{10}{31}e^{13} + \frac{10}{31}e^{24}, \frac{10}{31}e^{12} + \frac{10}{31}e^{34}$	$(\frac{4}{31}, \frac{4}{31}, \frac{4}{31}, \frac{4}{31}, 1, -\frac{19}{31}, \frac{6}{31}, \frac{8}{31}, \frac{8}{31})$ $+ \frac{50}{31}e^5 \otimes e_6$	{12345, 123457, 12346, 123467, 12578, 1258, 12678, 1268, 145789, 14589, 146789, 14689, 5, 57, 6, 67, 12345, 123457, 12346, 123467, 12578, 1258, 12678, 1268, 145789, 14589, 146789, 14689, 5, 57, 6, 67}
92:4	$0, 0, 0, 0, 0, 0, -\frac{1}{59}\sqrt{451}e^{13} + \frac{1}{59}\sqrt{451}e^{24}, \frac{1}{59}\sqrt{451}e^{12} + \frac{1}{59}\sqrt{451}e^{34}$	$(\frac{22}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{22}{59}, -\frac{19}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{18}{59}, \frac{18}{59})$ $+ \frac{2}{59}\sqrt{533}e^1 \otimes e_5 + \frac{2}{59}\sqrt{533}e^4 \otimes e_6$	{1234, 12347, 12678, 1268, 14789, 1489, 2356789, 235689, 56, 567, 1234, 12347, 12678, 1268, 14789, 1489, 2356789, 235689, 56, 567}
92:4	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{451}e^{13} + \frac{1}{59}\sqrt{451}e^{24}, \frac{1}{59}\sqrt{451}e^{12} + \frac{1}{59}\sqrt{451}e^{34}$	$(\frac{22}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{22}{59}, -\frac{19}{59}, -\frac{19}{59}, \frac{7}{59}, \frac{18}{59}, \frac{18}{59})$ $+ \frac{2}{59}\sqrt{533}e^1 \otimes e_5 + \frac{2}{59}\sqrt{533}e^4 \otimes e_6$	{1234, 12347, 12678, 1268, 14789, 1489, 2356789, 235689, 56, 567, 1234, 12347, 12678, 1268, 14789, 1489, 2356789, 235689, 56, 567}
92:4	$0, 0, 0, 0, 0, 0, -\frac{1}{59}\sqrt{451}e^{13} + \frac{1}{59}\sqrt{451}e^{24}, \frac{1}{59}\sqrt{451}e^{12} + \frac{1}{59}\sqrt{451}e^{34}$	$(-\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{33}{59}, \frac{33}{59}, \frac{7}{59}, -\frac{8}{59}, -\frac{8}{59})$ $+ \frac{2}{59}\sqrt{533}e^1 \otimes e_8 + \frac{2}{59}\sqrt{533}e^6 \otimes e_9$	{123456, 1234567, 12678, 1268, 14789, 1489, 56, 567, 123456, 1234567, 12678, 1268, 14789, 1489, 56, 567}
92:4	$0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{451}e^{13} + \frac{1}{59}\sqrt{451}e^{24}, \frac{1}{59}\sqrt{451}e^{12} + \frac{1}{59}\sqrt{451}e^{34}$	$(-\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, -\frac{4}{59}, \frac{33}{59}, \frac{33}{59}, \frac{7}{59}, -\frac{8}{59}, -\frac{8}{59})$ $+ \frac{2}{59}\sqrt{533}e^5 \otimes e_8 + \frac{2}{59}\sqrt{533}e^6 \otimes e_9$	{123456, 1234567, 12678, 1268, 14789, 1489, 56, 567, 123456, 1234567, 12678, 1268, 14789, 1489, 56, 567}
92:4	$0, 0, 0, 0, 0, 0, -\frac{2}{95}\sqrt{627}e^{13} + \frac{2}{95}\sqrt{231}e^{24}, \frac{2}{95}\sqrt{627}e^{12} + \frac{2}{95}\sqrt{231}e^{34}$	$(\frac{24}{95}, -\frac{2}{95}, -\frac{2}{95}, \frac{24}{95}, \frac{43}{95}, -\frac{42}{95}, -\frac{23}{95}, \frac{22}{95}, \frac{22}{95})$ $+ \frac{4}{95}\sqrt{429}e^1 \otimes e_6 + \frac{66}{95}e^5 \otimes e_7$	{1235, 1237, 12458, 12478, 1589, 1789, 2345689, 2346789, 2569, 2679, 456, 467, 1235, 1237, 12458, 12478, 1589, 1789, 2345689, 2346789, 2569, 2679, 456, 467}
92:4	$0, 0, 0, 0, 0, 0, \frac{2}{95}\sqrt{627}e^{13} + \frac{2}{95}\sqrt{231}e^{24}, \frac{2}{95}\sqrt{627}e^{12} + \frac{2}{95}\sqrt{231}e^{34}$	$(\frac{24}{95}, -\frac{2}{95}, -\frac{2}{95}, \frac{24}{95}, \frac{43}{95}, -\frac{42}{95}, -\frac{23}{95}, \frac{22}{95}, \frac{22}{95})$ $+ \frac{4}{95}\sqrt{429}e^1 \otimes e_6 + \frac{66}{95}e^5 \otimes e_7$	{1235, 1237, 12458, 12478, 1589, 1789, 2345689, 2346789, 2569, 2679, 456, 467, 1235, 1237, 12458, 12478, 1589, 1789, 2345689, 2346789, 2569, 2679, 456, 467}
92:4	$0, 0, 0, 0, 0, 0, -\frac{2}{95}\sqrt{627}e^{13} + \frac{2}{95}\sqrt{627}e^{24}, \frac{2}{95}\sqrt{231}e^{12} + \frac{2}{95}\sqrt{231}e^{34}$	$(-\frac{2}{95}, -\frac{2}{95}, -\frac{2}{95}, -\frac{2}{95}, \frac{43}{95}, \frac{62}{95}, -\frac{23}{95}, -\frac{4}{95}, -\frac{4}{95})$ $+ \frac{4}{95}\sqrt{429}e^6 \otimes e_8 + \frac{66}{95}e^5 \otimes e_7$	{1234569, 1234679, 12589, 12789, 1356, 1367, 1458, 1478, 569, 679, 1234569, 1234679, 12589, 12789, 1356, 1367, 1458, 1478, 569, 679}
92:4	$0, 0, 0, 0, 0, 0, \frac{2}{95}\sqrt{627}e^{13} + \frac{2}{95}\sqrt{627}e^{24}, \frac{2}{95}\sqrt{231}e^{12} + \frac{2}{95}\sqrt{231}e^{34}$	$(-\frac{2}{95}, -\frac{2}{95}, -\frac{2}{95}, -\frac{2}{95}, \frac{43}{95}, \frac{62}{95}, -\frac{23}{95}, -\frac{4}{95}, -\frac{4}{95})$ $+ \frac{4}{95}\sqrt{429}e^6 \otimes e_8 + \frac{66}{95}e^5 \otimes e_7$	{1234569, 1234679, 12589, 12789, 1356, 1367, 1458, 1478, 569, 679, 1234569, 1234679, 12589, 12789, 1356, 1367, 1458, 1478, 569, 679}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{225}\sqrt{781}e^{12}, \frac{2}{225}\sqrt{1562}e^{13} + \frac{4}{225}\sqrt{781}e^{45}$	$(-\frac{38}{225}, \frac{22}{45}, \frac{2}{75}, \frac{11}{45}, -\frac{29}{75}, \frac{28}{225}, \frac{28}{225}, \frac{8}{25}, -\frac{32}{225})$ $+ \frac{142}{225}e^4 \otimes e_5 + \frac{2}{75}\sqrt{994}e^2 \otimes e_9$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{188}\sqrt{799}e^{12}, \frac{3}{376}\sqrt{102}e^{13} + \frac{3}{188}\sqrt{374}e^{45}$	$(\frac{129}{752}, \frac{123}{752}, -\frac{177}{752}, -\frac{3}{94}, -\frac{3}{94}, \frac{129}{376}, -\frac{183}{752}, \frac{63}{188}, -\frac{3}{47})$ $+ \frac{3}{376}\sqrt{3298}e^6 \otimes e_9 + \frac{3}{376}\sqrt{4199}e^1 \otimes e_3 + \frac{3}{376}\sqrt{4199}e^2 \otimes e_7$	{12456, 126, 145678, 1678, 234568, 2368, 34567, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{401}\sqrt{1090}e^{12}, \frac{2}{401}\sqrt{4578}e^{13} + \frac{2}{401}\sqrt{327}e^{45}$	$(-\frac{49}{401}, -\frac{7}{401}, \frac{121}{401}, \frac{145}{401}, -\frac{73}{401}, \frac{162}{401}, -\frac{97}{401}, -\frac{56}{401}, \frac{72}{401})$ $+ \frac{218}{401}e^4 \otimes e_5 + \frac{2}{401}\sqrt{14061}e^6 \otimes e_8 + \frac{2}{401}\sqrt{14170}e^3 \otimes e_7$	{12346, 12356, 1348, 1358, 2478, 2578, 467, 567}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{5453}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{5}{377}\sqrt{1330}e^{45}$	$(-\frac{6}{377}, -\frac{49}{377}, \frac{121}{377}, \frac{37}{377}, \frac{6}{29}, -\frac{12}{377}, -\frac{96}{377}, -\frac{55}{377}, \frac{115}{377})$ $+ \frac{1}{377}\sqrt{34314}e^4 \otimes e_7 + \frac{2}{377}\sqrt{11305}e^5 \otimes e_8 + \frac{3}{377}\sqrt{1330}e^3 \otimes e_6$	{123579, 12456, 13489, 1678, 2378, 24689, 345, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{126}\sqrt{3922}e^{12}, \frac{1}{126}\sqrt{1219}e^{13} + \frac{1}{126}\sqrt{742}e^{45}$	$(-\frac{8}{63}, \frac{5}{36}, \frac{1}{6}, \frac{29}{126}, -\frac{4}{21}, \frac{109}{252}, -\frac{71}{252}, \frac{1}{84}, \frac{5}{126})$ $+ \frac{1}{42}\sqrt{530}e^2 \otimes e_7 + \frac{1}{42}\sqrt{530}e^6 \otimes e_8 + \frac{53}{126}e^4 \otimes e_5$	{123469, 123569, 134789, 135789, 2489, 2589, 4679, 5679}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{238}e^{12}, \frac{2}{91}\sqrt{187}e^{13} + \frac{2}{91}\sqrt{442}e^{45}$	$(\frac{4}{13}, -\frac{1}{13}, -\frac{6}{91}, \frac{11}{91}, \frac{11}{91}, -\frac{23}{91}, -\frac{23}{91}, \frac{3}{13}, \frac{22}{91})$ $+ \frac{2}{91}\sqrt{510}e^4 \otimes e_6 + \frac{2}{91}\sqrt{510}e^5 \otimes e_7 + \frac{4}{91}\sqrt{102}e^1 \otimes e_3$	{1245, 1267, 1458, 1678, 23458, 23678, 345, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13} + \frac{3}{401}\sqrt{2233}e^{45}$	$(\frac{88}{401}, -\frac{8}{401}, -\frac{115}{401}, \frac{88}{401}, -\frac{115}{401}, \frac{176}{401}, \frac{36}{401}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{14}{401}\sqrt{290}e^6 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^1 \otimes e_3 - \frac{203}{401}e^4 \otimes e_5$	{12479, 1249, 12579, 1259, 14789, 1489, 15789, 1589, 234789, 23489, 235789, 23589, 3479, 349, 3579, 359}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13} + \frac{3}{401}\sqrt{2233}e^{45}$	$(\frac{88}{401}, -\frac{8}{401}, -\frac{115}{401}, \frac{88}{401}, -\frac{115}{401}, \frac{176}{401}, \frac{36}{401}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{14}{401}\sqrt{290}e^6 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^1 \otimes e_3 + \frac{203}{401}e^4 \otimes e_5$	{12479, 1249, 12579, 1259, 14789, 1489, 15789, 1589, 234789, 23489, 235789, 23589, 3479, 349, 3579, 359}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{2674}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{1}{455}\sqrt{10887}e^{45}$	$(\frac{6}{65}, -\frac{149}{455}, \frac{12}{65}, \frac{9}{65}, \frac{2}{65}, -\frac{61}{455}, -\frac{107}{455}, \frac{18}{65})$ $+ \frac{191}{455}e^6 \otimes e_7 + \frac{1}{455}\sqrt{59401}e^1 \otimes e_2 + \frac{1}{455}\sqrt{64749}e^3 \otimes e_8$	{145689, 145789, 1689, 1789, 2468, 2478}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{3949}\sqrt{243082}e^{12}, \frac{8}{3949}\sqrt{3401}e^{13} + \frac{8}{3949}\sqrt{11993}e^{45}$	$(\frac{80}{3949}, \frac{160}{3949}, -\frac{278}{3949}, \frac{796}{3949}, \frac{598}{3949}, \frac{97}{3949}, \frac{455}{3949}, \frac{240}{3949}, -\frac{18}{359})$ $+ \frac{2}{3949}\sqrt{153582}e^1 \otimes e_3 + \frac{2}{3949}\sqrt{249526}e^5 \otimes e_8 + \frac{358}{3949}e^7 \otimes e_6 + \frac{6}{3949}\sqrt{24702}e^2 \otimes e_9$	{12456, 12457, 2368, 2378}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{1885}\sqrt{11993}e^{12}, \frac{4}{1885}\sqrt{3401}e^{13} + \frac{1}{1885}\sqrt{243082}e^{45}$	$(-\frac{246}{1885}, \frac{223}{1885}, \frac{2}{13}, -\frac{112}{1885}, \frac{12}{145}, -\frac{291}{1885}, \frac{138}{1885}, -\frac{23}{1885}, \frac{44}{1885})$ $+ \frac{1}{1885}\sqrt{153582}e^4 \otimes e_6 + \frac{1}{1885}\sqrt{249526}e^5 \otimes e_8 + \frac{3}{1885}\sqrt{24702}e^2 \otimes e_9$	{1245, 12457, 134789, 13489, 23678, 2368, 5679, 569}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{401}\sqrt{1090}e^{12}, \frac{2}{401}\sqrt{4578}e^{13} + \frac{2}{401}\sqrt{327}e^{45}$	$(\frac{81}{401}, -\frac{137}{401}, -\frac{9}{401}, \frac{145}{401}, -\frac{73}{401}, \frac{162}{401}, \frac{33}{401}, -\frac{56}{401}, \frac{72}{401})$ $+ \frac{218}{401}e^4 \otimes e_5 + \frac{2}{401}\sqrt{14061}e^6 \otimes e_8 + \frac{2}{401}\sqrt{14170}e^1 \otimes e_2$	{13478, 1348, 13578, 1358, 2478, 248, 2578, 258}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{1443}\sqrt{319838}e^{12}, \frac{23}{1443}\sqrt{170}e^{13} + \frac{2}{1443}\sqrt{75463}e^{45}$	$(-\frac{175}{1443}, \frac{110}{1443}, \frac{6}{37}, \frac{326}{1443}, -\frac{89}{481}, \frac{150}{481}, \frac{281}{1443}, -\frac{5}{111}, \frac{59}{1443})$ $+ \frac{1}{1443}\sqrt{258842}e^6 \otimes e_9 + \frac{1}{1443}\sqrt{463726}e^4 \otimes e_8 + \frac{20}{1443}\sqrt{782}e^2 \otimes e_7$	{12349, 12456, 135789, 1678, 2368, 2589, 34567, 479}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{8382}e^{12}, \frac{4}{313}\sqrt{127}e^{13} + \frac{5}{313}\sqrt{762}e^{45}$	$(\frac{66}{313}, -\frac{6}{313}, -\frac{61}{313}, \frac{53}{313}, -\frac{48}{313}, \frac{132}{313}, -\frac{74}{313}, \frac{60}{313}, \frac{5}{313})$ $+ \frac{1}{313}\sqrt{25654}e^4 \otimes e_7 + \frac{1}{313}\sqrt{26670}e^6 \otimes e_9 + \frac{4}{313}\sqrt{1270}e^1 \otimes e_3$	{1249, 12579, 1489, 15789, 23489, 235789, 349, 3579}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{103}\sqrt{130}e^{12}, \frac{5}{103}\sqrt{26}e^{13} + \frac{4}{103}\sqrt{65}e^{45}$	$(\frac{9}{206}, \frac{27}{103}, -\frac{7}{206}, -\frac{11}{103}, \frac{12}{103}, -\frac{43}{206}, -\frac{14}{103}, \frac{63}{206}, \frac{1}{103})$ $+ \frac{1}{103}\sqrt{1586}e^1 \otimes e_6 + \frac{2}{103}\sqrt{299}e^5 \otimes e_7 + \frac{9}{103}\sqrt{26}e^2 \otimes e_9$	{12345, 1237, 14789, 1589, 24568, 2678, 34679, 3569}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{10374}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{2}{377}\sqrt{5453}e^{45}$	$(\frac{3}{29}, -\frac{94}{377}, -\frac{10}{377}, \frac{6}{29}, -\frac{49}{377}, \frac{162}{377}, \frac{33}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{33782}e^4 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^6 \otimes e_9 + \frac{4}{377}\sqrt{1463}e^1 \otimes e_2$	{13678, 1368, 15789, 1589, 235789, 23589, 2678, 268}
92:5	$0, 0, 0, 0, 0, 0, \frac{6}{599}\sqrt{2233}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{4}{599}\sqrt{4466}e^{45}$	$(\frac{198}{599}, -\frac{27}{599}, \frac{17}{599}, \frac{231}{599}, -\frac{16}{599}, -\frac{208}{599}, \frac{175}{599}, \frac{171}{599}, \frac{215}{599})$ $+ \frac{28}{599}\sqrt{290}e^1 \otimes e_6 + \frac{2}{599}\sqrt{50141}e^4 \otimes e_7$	{12345, 1237, 1249, 12579, 13458, 1378, 1489, 15789, 234689, 2356789, 24568, 2678, 3469, 35679, 456, 67}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13} + \frac{2}{233}\sqrt{910}e^{45}$	$(\frac{98}{233}, -\frac{84}{233}, -\frac{30}{233}, \frac{34}{233}, \frac{34}{233}, \frac{115}{233}, -\frac{67}{233}, \frac{14}{233}, \frac{68}{233})$ $+ \frac{182}{233}e^6 \otimes e_7 + \frac{2}{233}\sqrt{10738}e^1 \otimes e_2$	{1346, 1347, 14569, 14579, 169, 179, 234569, 234579, 2369, 2379, 246, 247}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{3922}e^{12}, \frac{2}{199}\sqrt{1219}e^{13} + \frac{2}{199}\sqrt{742}e^{45}$	$(-\frac{32}{199}, \frac{35}{199}, \frac{42}{199}, \frac{5}{199}, \frac{5}{199}, \frac{109}{199}, -\frac{71}{199}, \frac{3}{199}, \frac{10}{199})$ $+ \frac{6}{199}\sqrt{530}e^2 \otimes e_7 + \frac{6}{199}\sqrt{530}e^6 \otimes e_8$	{123469, 12456, 126, 134789, 14578, 178, 23458, 238, 2489, 34567, 367, 4679}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{103}\sqrt{130}e^{12}, \frac{5}{103}\sqrt{26}e^{13} + \frac{4}{103}\sqrt{65}e^{45}$	$(-\frac{26}{103}, \frac{27}{103}, \frac{27}{103}, -\frac{11}{103}, \frac{12}{103}, -\frac{14}{103}, \frac{9}{103}, \frac{1}{103}, \frac{1}{103})$ $- \frac{1}{103}\sqrt{1586}e^3 \otimes e_8 + \frac{2}{103}\sqrt{299}e^5 \otimes e_6 + \frac{9}{103}\sqrt{26}e^2 \otimes e_9$	{12345, 123457, 1236, 12367, 146789, 14689, 15789, 1589, 24578, 2458, 2678, 268, 34679, 3469, 3579, 359}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{103}\sqrt{130}e^{12}, \frac{5}{103}\sqrt{26}e^{13} + \frac{4}{103}\sqrt{65}e^{45}$	$(-\frac{26}{103}, \frac{27}{103}, \frac{27}{103}, -\frac{11}{103}, \frac{12}{103}, -\frac{14}{103}, \frac{9}{103}, \frac{1}{103}, \frac{1}{103})$ $+ \frac{1}{103}\sqrt{1586}e^3 \otimes e_8 + \frac{2}{103}\sqrt{299}e^5 \otimes e_6 + \frac{9}{103}\sqrt{26}e^2 \otimes e_9$	{12345, 123457, 1236, 12367, 146789, 14689, 15789, 1589, 24578, 2458, 2678, 268, 34679, 3469, 3579, 359}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13} + \frac{2}{11}\sqrt{7}e^{45}$	$(\frac{8}{11}, -\frac{2}{11}, -\frac{6}{11}, \frac{1}{11}, \frac{1}{11}, \frac{2}{11}, \frac{2}{11}, \frac{6}{11}, \frac{2}{11})$ $+ \frac{6}{11}\sqrt{7}e^1 \otimes e_3$	{12, 1245, 12456, 124567, 126, 1267, 145678, 14568, 1458, 1678, 168, 18, 2345678, 234568, 23458, 23678, 2368, 238, 3, 345, 3456, 34567, 36, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{5}{377}\sqrt{1330}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{2}{377}\sqrt{5453}e^{45}$	$(-\frac{49}{377}, \frac{37}{377}, \frac{121}{377}, -\frac{49}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{12}{377}, -\frac{12}{377}, \frac{72}{377})$ $+ \frac{1}{377}\sqrt{34314}e^2 \otimes e_6 + \frac{2}{377}\sqrt{11305}e^5 \otimes e_8 + \frac{3}{377}\sqrt{1330}e^3 \otimes e_7$	{12359, 12457, 134689, 1678, 238, 24789, 3456, 5679}
92:5	$0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{13}e^{12}, \frac{12}{137}\sqrt{37}e^{13} + \frac{12}{137}\sqrt{13}e^{45}$	$(-\frac{35}{137}, \frac{2}{137}, \frac{39}{137}, \frac{2}{137}, \frac{2}{137}, \frac{76}{137}, \frac{15}{137}, -\frac{33}{137}, \frac{4}{137})$ $+ \frac{12}{137}\sqrt{61}e^3 \otimes e_8 + \frac{2}{137}\sqrt{61}e^6 \otimes e_9$	{123456, 1234567, 1236, 12367, 14789, 1489, 245678, 24568, 2678, 268, 3479, 349}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{3709}\sqrt{323162}e^{12}, \frac{8}{3709}\sqrt{17453}e^{13} + \frac{6}{3709}\sqrt{14638}e^{45}$	$(-\frac{800}{3709}, \frac{546}{3709}, \frac{872}{3709}, -\frac{527}{3709}, \frac{599}{3709}, -\frac{580}{3709}, \frac{1198}{3709}, -\frac{254}{3709}, \frac{72}{3709})$ $+ \frac{10}{3709}\sqrt{19142}e^2 \otimes e_6 + \frac{1126}{3709}e^5 \otimes e_4 + \frac{6}{3709}\sqrt{68686}e^3 \otimes e_8 + \frac{8}{3709}\sqrt{32654}e^7 \otimes e_9$	{14689, 15689, 3469, 3569}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{188}\sqrt{799}e^{12}, \frac{3}{376}\sqrt{102}e^{13} + \frac{3}{188}\sqrt{374}e^{45}$	$(\frac{129}{752}, -\frac{31}{188}, -\frac{177}{752}, -\frac{3}{94}, -\frac{3}{94}, \frac{311}{752}, \frac{129}{752}, \frac{5}{47}, -\frac{3}{47})$ $+ \frac{3}{376}\sqrt{3298}e^7 \otimes e_9 + \frac{3}{376}\sqrt{4199}e^1 \otimes e_3 + \frac{3}{376}\sqrt{4199}e^6 \otimes e_8$	{124567, 1267, 14578, 178, 234578, 2378, 34567, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{181}\sqrt{22}e^{12}, \frac{12}{181}\sqrt{22}e^{13} + \frac{33}{181}\sqrt{10}e^{45}$	$(\frac{2}{181}, \frac{18}{181}, \frac{3}{181}, \frac{41}{181}, -\frac{36}{181}, \frac{104}{181}, -\frac{58}{181}, \frac{20}{181}, \frac{5}{181})$ $+ \frac{33}{181}\sqrt{14}e^4 \otimes e_7 + \frac{3}{181}\sqrt{1870}e^6 \otimes e_9$	{123456, 12367, 1249, 12579, 134568, 13678, 1489, 15789, 23489, 235789, 24568, 2678, 349, 3579, 456, 67}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{1101}\sqrt{2674}e^{12}, \frac{8}{1101}\sqrt{2865}e^{13} + \frac{2}{1101}\sqrt{10887}e^{45}$	$(\frac{28}{367}, -\frac{298}{1101}, \frac{56}{367}, -\frac{65}{1101}, \frac{317}{1101}, -\frac{122}{1101}, \frac{260}{1101}, -\frac{214}{1101}, \frac{84}{367})$ $+ \frac{2}{1101}\sqrt{59401}e^1 \otimes e_2 + \frac{2}{1101}\sqrt{64749}e^3 \otimes e_8 + \frac{382}{1101}e^5 \otimes e_4 + \frac{382}{1101}e^7 \otimes e_6$	{2468, 2478, 2568, 2578}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{188}\sqrt{374}e^{12}, \frac{3}{376}\sqrt{102}e^{13} + \frac{3}{188}\sqrt{799}e^{45}$	$(-\frac{9}{376}, -\frac{3}{94}, \frac{33}{94}, \frac{123}{752}, \frac{123}{752}, -\frac{183}{752}, -\frac{183}{752}, -\frac{21}{376}, \frac{123}{376})$ $+ \frac{3}{376}\sqrt{3298}e^3 \otimes e_8 + \frac{3}{376}\sqrt{4199}e^4 \otimes e_6 + \frac{3}{376}\sqrt{4199}e^5 \otimes e_7$	{123479, 1458, 1678, 24789, 345, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{377}\sqrt{10374}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{2}{377}\sqrt{5453}e^{45}$	$(-\frac{49}{377}, -\frac{6}{377}, \frac{6}{29}, \frac{6}{29}, -\frac{49}{377}, \frac{162}{377}, -\frac{55}{377}, -\frac{55}{377}, \frac{1}{13})$ $+ \frac{1}{377}\sqrt{33782}e^4 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^6 \otimes e_9 + \frac{4}{377}\sqrt{1463}e^3 \otimes e_7$	{123456, 12479, 1368, 15789, 23589, 2678, 349, 4567}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{244}\sqrt{9379}e^{12}, \frac{1}{244}\sqrt{565}e^{13} + \frac{1}{488}\sqrt{16498}e^{45}$	$(\frac{43}{976}, \frac{43}{488}, -\frac{3}{16}, -\frac{35}{488}, -\frac{35}{488}, \frac{355}{976}, \frac{19}{244}, \frac{129}{976}, -\frac{35}{244})$ $+ \frac{3}{488}\sqrt{3503}e^1 \otimes e_3 + \frac{3}{488}\sqrt{3503}e^6 \otimes e_8 + \frac{3}{488}\sqrt{4294}e^2 \otimes e_9$	{12456, 124567, 126, 1267, 234578, 23458, 2378, 238}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{699}\sqrt{759}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{22}{699}\sqrt{230}e^{45}$	$(-\frac{8}{233}, \frac{92}{699}, -\frac{12}{233}, \frac{223}{699}, -\frac{283}{699}, \frac{446}{699}, \frac{80}{699}, \frac{68}{699}, -\frac{20}{233})$ $+ \frac{2}{699}\sqrt{92598}e^6 \otimes e_9 + \frac{506}{699}e^4 \otimes e_5$	{124789, 12489, 125789, 12589, 1479, 149, 1579, 159, 23479, 2349, 23579, 2359, 34789, 3489, 35789, 3589}
92:5	$0, 0, 0, 0, 0, 0, \frac{6}{379}\sqrt{553}e^{12}, \frac{30}{379}\sqrt{21}e^{13} + \frac{12}{379}\sqrt{14}e^{45}$	$(\frac{18}{379}, -\frac{47}{379}, \frac{97}{379}, \frac{24}{379}, \frac{91}{379}, -\frac{108}{379}, \frac{35}{379}, -\frac{29}{379}, \frac{115}{379})$ $+ \frac{6}{379}\sqrt{469}e^5 \otimes e_7 + \frac{84}{379}\sqrt{5}e^1 \otimes e_6 + \frac{84}{379}\sqrt{5}e^3 \otimes e_8$	{12345, 1237, 14789, 1589, 24568, 2678, 34679, 3569}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{266}e^{12}, \frac{1}{91}\sqrt{627}e^{13} + \frac{2}{91}\sqrt{266}e^{45}$	$(-\frac{5}{91}, \frac{2}{91}, \frac{23}{91}, \frac{2}{91}, \frac{16}{91}, -\frac{17}{91}, -\frac{17}{91}, -\frac{3}{91}, \frac{18}{91})$ $+ \frac{1}{91}\sqrt{893}e^2 \otimes e_6 + \frac{1}{91}\sqrt{893}e^4 \otimes e_7 + \frac{5}{91}\sqrt{57}e^5 \otimes e_8$	{123579, 1245, 134689, 1678, 2378, 2489, 3456, 5679}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{266}e^{12}, \frac{1}{91}\sqrt{627}e^{13} + \frac{2}{91}\sqrt{266}e^{45}$	$(\frac{37}{182}, -\frac{43}{182}, -\frac{1}{182}, \frac{2}{91}, \frac{16}{91}, -\frac{17}{91}, \frac{1}{14}, -\frac{3}{91}, \frac{18}{91})$ $+ \frac{1}{91}\sqrt{893}e^1 \otimes e_3 + \frac{1}{91}\sqrt{893}e^4 \otimes e_6 + \frac{5}{91}\sqrt{57}e^5 \otimes e_8$	{1245, 12457, 1678, 168, 23678, 2368, 345, 3457}
92:5	$0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{2674}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{2}{719}\sqrt{10887}e^{45}$	$(\frac{112}{719}, \frac{13}{719}, \frac{140}{719}, \frac{126}{719}, \frac{126}{719}, -\frac{270}{719}, -\frac{242}{719}, \frac{125}{719}, \frac{252}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_7 + \frac{2}{719}\sqrt{64749}e^1 \otimes e_6$	{1234, 124579, 1279, 1348, 145789, 1789, 2345689, 23689, 24678, 34569, 369, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13} + \frac{2}{11}\sqrt{7}e^{45}$	$(-\frac{1}{11}, -\frac{2}{11}, \frac{3}{11}, \frac{1}{11}, \frac{1}{11}, 1, \frac{2}{11}, -\frac{3}{11}, \frac{2}{11})$ $+ \frac{6}{11}\sqrt{7}e^6 \otimes e_8$	{1234679, 123469, 12456, 124567, 126, 1267, 134789, 13489, 14578, 1458, 178, 18, 234578, 23458, 2378, 238, 24789, 2489, 3456, 34567, 36, 367, 4679, 469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1573}\sqrt{14638}e^{12}, \frac{4}{1573}\sqrt{17453}e^{13} + \frac{1}{1573}\sqrt{323162}e^{45}$	$(-\frac{230}{1573}, \frac{18}{1573}, \frac{27}{121}, \frac{21}{121}, -\frac{152}{1573}, \frac{684}{1573}, -\frac{290}{1573}, -\frac{212}{1573}, \frac{1}{13})$ $+ \frac{3}{1573}\sqrt{68686}e^6 \otimes e_9 + \frac{4}{1573}\sqrt{32654}e^3 \otimes e_8 + \frac{5}{1573}\sqrt{19142}e^4 \otimes e_7$	{123456, 12367, 1489, 15789, 24568, 2678, 349, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{488}\sqrt{16498}e^{12}, \frac{1}{244}\sqrt{565}e^{13} + \frac{1}{244}\sqrt{9379}e^{45}$	$(-\frac{25}{488}, \frac{17}{61}, \frac{6}{61}, \frac{23}{976}, \frac{23}{976}, -\frac{203}{976}, -\frac{203}{976}, \frac{111}{488}, \frac{23}{488})$ $+ \frac{3}{488}\sqrt{3503}e^4 \otimes e_6 + \frac{3}{488}\sqrt{3503}e^5 \otimes e_7 + \frac{3}{488}\sqrt{4294}e^2 \otimes e_9$	{1245, 1267, 134789, 23458, 23678, 479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{2674}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{1}{455}\sqrt{10887}e^{45}$	$(\frac{6}{65}, -\frac{149}{455}, \frac{12}{65}, -\frac{1}{14}, \frac{317}{910}, \frac{69}{910}, \frac{69}{910}, -\frac{107}{455}, \frac{18}{65})$ $+ \frac{191}{455}e^5 \otimes e_4 + \frac{1}{455}\sqrt{59401}e^1 \otimes e_2 + \frac{1}{455}\sqrt{64749}e^3 \otimes e_8$	{24678, 2468, 248, 25678, 2568, 258}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{434}\sqrt{39730}e^{12}, \frac{1}{434}\sqrt{19043}e^{13} + \frac{1}{31}\sqrt{137}e^{45}$	$(\frac{50}{217}, -\frac{221}{868}, -\frac{37}{434}, \frac{253}{868}, \frac{127}{868}, \frac{103}{434}, -\frac{17}{217}, -\frac{3}{124}, \frac{9}{62})$ $+ \frac{137}{434}e^6 \otimes e_7 + \frac{1}{217}\sqrt{13015}e^4 \otimes e_8 + \frac{1}{434}\sqrt{38634}e^1 \otimes e_3$	{12456, 12457, 168, 178, 2368, 2378, 3456, 3457}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{442}e^{12}, \frac{2}{91}\sqrt{187}e^{13} + \frac{2}{91}\sqrt{238}e^{45}$	$(\frac{22}{91}, -\frac{19}{91}, -\frac{12}{91}, \frac{17}{91}, -\frac{1}{13}, \frac{37}{91}, -\frac{17}{91}, \frac{3}{91}, \frac{10}{91})$ $+ \frac{2}{91}\sqrt{510}e^1 \otimes e_3 + \frac{2}{91}\sqrt{510}e^6 \otimes e_8 + \frac{4}{91}\sqrt{102}e^4 \otimes e_7$	{12456, 1267, 1458, 178, 23458, 2378, 3456, 367}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{406}\sqrt{4917}e^{12}, \frac{9}{406}\sqrt{298}e^{13} + \frac{1}{203}\sqrt{5215}e^{45}$	$(\frac{41}{203}, -\frac{67}{406}, -\frac{99}{812}, \frac{71}{406}, -\frac{11}{116}, \frac{363}{812}, -\frac{39}{203}, \frac{15}{406}, \frac{65}{812})$ $+ \frac{1}{406}\sqrt{32631}e^4 \otimes e_7 + \frac{1}{406}\sqrt{34270}e^1 \otimes e_2 + \frac{5}{203}\sqrt{447}e^6 \otimes e_9$	{13456, 1367, 149, 1579, 2349, 23579, 2456, 267}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{66}{461}\sqrt{10}e^{12}, \frac{24}{461}\sqrt{22}e^{13} + \frac{6}{461}\sqrt{22}e^{45}$	$(\frac{66}{461}, -\frac{72}{461}, \frac{6}{461}, \frac{135}{461}, \frac{63}{461}, \frac{192}{461}, -\frac{132}{461}, -\frac{6}{461}, \frac{72}{461})$ $+ \frac{198}{461}e^4 \otimes e_5 + \frac{66}{461}\sqrt{14}e^6 \otimes e_8 + \frac{6}{461}\sqrt{1870}e^1 \otimes e_7$	{12469, 12569, 1489, 1589, 234789, 235789, 34679, 35679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{9454}e^{12}, \frac{1}{441}\sqrt{3749}e^{13} + \frac{1}{441}\sqrt{22657}e^{45}$	$(\frac{52}{441}, \frac{104}{441}, -\frac{37}{147}, -\frac{59}{882}, -\frac{59}{882}, \frac{27}{98}, \frac{83}{882}, \frac{52}{147}, -\frac{59}{441})$ $+ \frac{163}{441}e^6 \otimes e_7 + \frac{1}{147}\sqrt{5053}e^1 \otimes e_3 + \frac{2}{147}\sqrt{1630}e^2 \otimes e_9$	{14689, 14789, 3469, 3479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{9454}e^{12}, \frac{2}{719}\sqrt{3749}e^{13} + \frac{2}{719}\sqrt{22657}e^{45}$	$(\frac{104}{719}, \frac{208}{719}, -\frac{222}{719}, -\frac{59}{719}, -\frac{59}{719}, \frac{80}{719}, \frac{80}{719}, \frac{312}{719}, -\frac{118}{719})$ $+ \frac{12}{719}\sqrt{1630}e^2 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^1 \otimes e_3$	{146789, 14689, 1489, 34679, 3469, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{66}{461}\sqrt{10}e^{12}, \frac{24}{461}\sqrt{22}e^{13} + \frac{6}{461}\sqrt{22}e^{45}$	$(-\frac{104}{461}, \frac{82}{461}, \frac{176}{461}, -\frac{63}{461}, \frac{135}{461}, \frac{116}{461}, \frac{38}{461}, -\frac{22}{461}, \frac{72}{461})$ $+ \frac{198}{461}e^5 \otimes e_4 + \frac{66}{461}\sqrt{14}e^2 \otimes e_6 + \frac{6}{461}\sqrt{1870}e^3 \otimes e_8$	{146789, 14689, 156789, 15689, 34679, 3469, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1443}\sqrt{75463}e^{12}, \frac{23}{1443}\sqrt{170}e^{13} + \frac{1}{1443}\sqrt{319838}e^{45}$	$(\frac{179}{1443}, -\frac{89}{481}, \frac{6}{37}, \frac{110}{1443}, \frac{101}{481}, -\frac{212}{1443}, -\frac{281}{1443}, -\frac{88}{1443}, \frac{413}{1443})$ $+ \frac{1}{1443}\sqrt{258842}e^1 \otimes e_6 + \frac{1}{1443}\sqrt{463726}e^5 \otimes e_8 + \frac{20}{1443}\sqrt{782}e^4 \otimes e_7$	{123579, 1245, 13489, 178, 23678, 24689, 3456, 5679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{361}\sqrt{103}e^{12}, \frac{1}{361}\sqrt{23690}e^{13} + \frac{4}{361}\sqrt{103}e^{45}$	$(\frac{12}{361}, -\frac{91}{361}, \frac{24}{361}, \frac{18}{361}, \frac{18}{361}, \frac{139}{361}, \frac{26}{361}, -\frac{79}{361}, \frac{36}{361})$ $+ \frac{1}{361}\sqrt{22454}e^1 \otimes e_2 + \frac{1}{361}\sqrt{23278}e^3 \otimes e_8 + \frac{1}{361}\sqrt{23278}e^6 \otimes e_9$	{14789, 1489, 245678, 24568, 2678, 268}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{6}{1121}\sqrt{1462}e^{12}, \frac{4}{1121}\sqrt{11739}e^{13} + \frac{2}{1121}\sqrt{258}e^{45}$	$(\frac{107}{1121}, -\frac{151}{1121}, \frac{5}{1121}, -\frac{73}{1121}, \frac{185}{1121}, -\frac{253}{1121}, \frac{370}{1121}, -\frac{44}{1121}, \frac{112}{1121})$ $+ \frac{12}{1121}\sqrt{1118}e^7 \otimes e_9 + \frac{258}{1121}e^5 \otimes e_4 + \frac{2}{1121}\sqrt{40119}e^1 \otimes e_2 + \frac{2}{1121}\sqrt{40119}e^3 \otimes e_6$	{1469, 1569, 2349, 2359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{4}{719}\sqrt{2674}e^{45}$	$(-\frac{114}{719}, \frac{126}{719}, \frac{140}{719}, \frac{13}{719}, \frac{13}{719}, \frac{408}{719}, -\frac{242}{719}, \frac{12}{719}, \frac{26}{719})$ $+ \frac{2}{719}\sqrt{59401}e^3 \otimes e_7 + \frac{2}{719}\sqrt{64749}e^6 \otimes e_9$	{1234568, 12368, 124789, 13456, 136, 1479, 2349, 24567, 267, 3489, 45678, 678}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{759}e^{12}, \frac{2}{223}\sqrt{7337}e^{13} + \frac{11}{223}\sqrt{230}e^{45}$	$(-\frac{12}{223}, \frac{46}{223}, -\frac{18}{223}, -\frac{15}{223}, -\frac{15}{223}, 1, \frac{40}{223}, \frac{34}{223}, -\frac{30}{223})$ $+ \frac{1}{223}\sqrt{92598}e^6 \otimes e_9$	{12345678, 1234568, 123678, 12368, 124789, 12489, 13456, 134567, 136, 1367, 1479, 149, 23479, 2349, 2456, 24567, 26, 267, 34789, 3489, 45678, 4568, 678, 68}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{39730}e^{12}, \frac{2}{731}\sqrt{19043}e^{13} + \frac{28}{731}\sqrt{137}e^{45}$	$(\frac{200}{731}, -\frac{13}{43}, -\frac{74}{731}, \frac{253}{731}, -\frac{127}{731}, \frac{69}{731}, \frac{69}{731}, -\frac{21}{731}, \frac{126}{731})$ $+ \frac{2}{731}\sqrt{38634}e^1 \otimes e_3 + \frac{4}{731}\sqrt{13015}e^4 \otimes e_8$	{1245, 12456, 124567, 1678, 168, 18, 23678, 2368, 238, 345, 3456, 34567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{4}\sqrt{3}e^{12}, \frac{1}{4}e^{13} + \frac{1}{8}\sqrt{2}e^{45}$	$(\frac{1}{8}, 0, -\frac{1}{8}, 0, 0, \frac{3}{8}, -\frac{1}{4}, \frac{1}{8}, 0)$ $+ \frac{1}{8}\sqrt{10}e^1 \otimes e_3 + \frac{1}{8}\sqrt{10}e^2 \otimes e_7 + \frac{1}{8}\sqrt{10}e^6 \otimes e_8$	{12456, 126, 14578, 178, 23458, 238, 34567, 367}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{327}e^{12}, \frac{1}{146}\sqrt{4578}e^{13} + \frac{1}{73}\sqrt{1090}e^{45}$	$(-\frac{3}{146}, \frac{9}{73}, \frac{121}{292}, \frac{61}{146}, -\frac{7}{292}, -\frac{97}{292}, -\frac{24}{73}, \frac{15}{146}, \frac{115}{292})$ $+ \frac{1}{146}\sqrt{14061}e^4 \otimes e_7 + \frac{4}{146}\sqrt{14170}e^3 \otimes e_6$	{123458, 12378, 124689, 1256789, 1345, 137, 1469, 15679, 2349, 23579, 2456, 267, 3489, 35789, 4568, 678}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13} + \frac{4}{111}\sqrt{51}e^{45}$	$(\frac{5}{111}, \frac{10}{37}, -\frac{3}{37}, -\frac{19}{111}, \frac{5}{37}, -\frac{29}{111}, \frac{10}{111}, \frac{35}{111}, -\frac{4}{111})$ $+ \frac{2}{111}\sqrt{663}e^1 \otimes e_6 + \frac{2}{37}\sqrt{85}e^2 \otimes e_9 + \frac{34}{111}e^5 \otimes e_4$	{14789, 1489, 15789, 1589, 34679, 3469, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13} + \frac{2}{233}\sqrt{910}e^{45}$	$(\frac{98}{233}, -\frac{84}{233}, -\frac{30}{233}, \frac{125}{233}, -\frac{57}{233}, \frac{24}{233}, \frac{24}{233}, \frac{14}{233}, \frac{68}{233})$ $+ \frac{182}{233}e^4 \otimes e_5 + \frac{2}{233}\sqrt{10738}e^1 \otimes e_2$	{134, 1346, 13467, 135, 1356, 13567, 24, 246, 2467, 25, 256, 2567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{11}{476}\sqrt{230}e^{12}, \frac{1}{238}\sqrt{7337}e^{13} + \frac{1}{238}\sqrt{759}e^{45}$	$(-\frac{73}{476}, -\frac{15}{476}, \frac{165}{476}, \frac{345}{952}, -\frac{23}{136}, \frac{333}{952}, -\frac{173}{952}, -\frac{22}{119}, \frac{23}{119})$ $+ \frac{1}{476}\sqrt{92598}e^3 \otimes e_8 + \frac{253}{476}e^4 \otimes e_5 + \frac{253}{476}e^6 \otimes e_7$	{12346, 12347, 12356, 12357, 2468, 2478, 2568, 2578}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{2}{455}\sqrt{2674}e^{45}$	$(\frac{197}{910}, -\frac{37}{182}, -\frac{171}{910}, \frac{102}{455}, -\frac{89}{455}, \frac{204}{910}, \frac{69}{910}, \frac{6}{455}, \frac{1}{35})$ $+ \frac{191}{455}e^4 \otimes e_5 + \frac{1}{455}\sqrt{59401}e^1 \otimes e_2 + \frac{1}{455}\sqrt{64749}e^6 \otimes e_9$	{1479, 149, 1579, 159, 23479, 2349, 23579, 2359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{69}\sqrt{158}e^{12}, \frac{2}{483}\sqrt{8690}e^{13} + \frac{4}{483}\sqrt{474}e^{45}$	$(\frac{13}{483}, -\frac{20}{161}, \frac{37}{161}, -\frac{17}{483}, \frac{47}{161}, -\frac{145}{483}, \frac{38}{483}, -\frac{47}{483}, \frac{124}{483})$ $+ \frac{158}{483}e^5 \otimes e_4 + \frac{2}{483}\sqrt{14457}e^1 \otimes e_6 + \frac{2}{483}\sqrt{14457}e^3 \otimes e_8$	{1234, 12347, 1235, 12357, 24678, 2468, 25678, 2568}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1419}\sqrt{52202}e^{12}, \frac{1}{473}\sqrt{42490}e^{13} + \frac{2}{1419}\sqrt{32171}e^{45}$	$(\frac{74}{473}, -\frac{35}{129}, -\frac{196}{1419}, \frac{13}{1419}, \frac{13}{1419}, \frac{148}{473}, \frac{211}{473}, -\frac{163}{1419}, \frac{26}{1419})$ $+ \frac{1}{1419}\sqrt{559654}e^1 \otimes e_2 + \frac{2}{1419}\sqrt{155999}e^7 \otimes e_9 + \frac{5}{1419}\sqrt{15782}e^6 \otimes e_8$	{134578, 1378, 1489, 23489, 24578, 278}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{5453}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{1}{377}\sqrt{10374}e^{45}$	$(\frac{37}{377}, -\frac{49}{377}, \frac{6}{29}, -\frac{6}{377}, \frac{121}{377}, -\frac{96}{377}, -\frac{55}{377}, -\frac{12}{377}, \frac{115}{377})$ $+ \frac{1}{377}\sqrt{33782}e^5 \otimes e_8 + \frac{1}{377}\sqrt{34314}e^1 \otimes e_6 + \frac{4}{377}\sqrt{1463}e^3 \otimes e_7$	{12345, 12579, 138, 14789, 234689, 2678, 3569, 4567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13} + \frac{1}{9}\sqrt{7}e^{45}$	$(\frac{4}{9}, -\frac{1}{9}, -\frac{1}{3}, \frac{1}{18}, \frac{1}{18}, \frac{1}{2}, -\frac{5}{18}, \frac{1}{3}, \frac{1}{9})$ $+ \frac{1}{3}\sqrt{7}e^1 \otimes e_3 + \frac{7}{9}e^6 \otimes e_7$	{12456, 12457, 126, 127, 14568, 14578, 168, 178, 234568, 234578, 2368, 2378, 3456, 3457, 36, 37}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{6}{4165}\sqrt{47902}e^{12}, \frac{12}{4165}\sqrt{4687}e^{13} + \frac{12}{4165}\sqrt{4429}e^{45}$	$(-\frac{12}{595}, \frac{558}{4165}, -\frac{132}{4165}, -\frac{99}{833}, \frac{279}{4165}, -\frac{858}{4165}, \frac{1248}{4165}, \frac{474}{4165}, -\frac{216}{4165})$ $+ \frac{24}{4165}\sqrt{2537}e^7 \otimes e_8 + \frac{36}{4165}\sqrt{1634}e^2 \otimes e_9 + \frac{6}{4165}\sqrt{49966}e^1 \otimes e_6 + \frac{774}{4165}e^5 \otimes e_4$	{1489, 1589, 34679, 35679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{8}{37}\sqrt{15}e^{12}, \frac{16}{37}\sqrt{2}e^{13} + \frac{8}{37}\sqrt{15}e^{45}$	$(-\frac{1}{37}, -\frac{9}{37}, \frac{14}{37}, \frac{22}{37}, -\frac{9}{37}, \frac{6}{37}, \frac{6}{37}, -\frac{10}{37}, \frac{13}{37})$ $+ \frac{8}{37}\sqrt{31}e^4 \otimes e_8$	{1234679, 123469, 12349, 1245, 12456, 124567, 1356789, 135689, 13589, 1678, 168, 18, 23678, 2368, 238, 256789, 25689, 2589, 345, 3456, 34567, 4679, 469, 49}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{9454}e^{12}, \frac{1}{441}\sqrt{3749}e^{13} + \frac{1}{441}\sqrt{22657}e^{45}$	$(\frac{52}{441}, \frac{104}{441}, -\frac{37}{147}, -\frac{37}{147}, \frac{52}{441}, \frac{40}{441}, \frac{40}{441}, \frac{52}{147}, -\frac{59}{441})$ $+ \frac{163}{441}e^5 \otimes e_4 + \frac{1}{147}\sqrt{5053}e^1 \otimes e_3 + \frac{2}{147}\sqrt{1630}e^2 \otimes e_9$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{9454}e^{12}, \frac{1}{441}\sqrt{3749}e^{13} + \frac{1}{441}\sqrt{22657}e^{45}$	$(\frac{52}{441}, \frac{104}{441}, -\frac{37}{147}, -\frac{37}{147}, \frac{52}{441}, \frac{40}{441}, \frac{40}{441}, \frac{52}{147}, -\frac{59}{441})$ $- \frac{163}{441}e^5 \otimes e_4 + \frac{1}{147}\sqrt{5053}e^1 \otimes e_3 + \frac{2}{147}\sqrt{1630}e^2 \otimes e_9$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{28}{731}\sqrt{137}e^{12}, \frac{2}{731}\sqrt{19043}e^{13} + \frac{2}{731}\sqrt{39730}e^{45}$	$(\frac{12}{731}, -\frac{127}{731}, \frac{208}{731}, \frac{61}{731}, \frac{159}{731}, -\frac{213}{731}, \frac{69}{731}, -\frac{115}{731}, \frac{220}{731})$ $+ \frac{2}{731}\sqrt{38634}e^4 \otimes e_6 + \frac{4}{731}\sqrt{13015}e^5 \otimes e_8$	{1235679, 123569, 1245, 12457, 134789, 13489, 1678, 168, 23678, 2368, 24789, 2489, 345, 3457, 5679, 569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13} + \frac{1}{9}\sqrt{7}e^{45}$	$(-\frac{1}{18}, -\frac{1}{9}, \frac{1}{6}, \frac{4}{9}, -\frac{1}{3}, \frac{11}{18}, \frac{1}{9}, -\frac{1}{6}, \frac{1}{9})$ $+\frac{1}{3}\sqrt{7}e^6 \otimes e_8 + \frac{7}{9}e^4 \otimes e_5$	{1234679, 123469, 1235679, 123569, 134789, 13489, 135789, 13589, 24789, 2489, 25789, 2589, 4679, 469, 5679, 569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{22657}e^{12}, \frac{2}{719}\sqrt{3749}e^{13} + \frac{4}{719}\sqrt{9454}e^{45}$	$(-\frac{82}{719}, \frac{301}{719}, \frac{57}{719}, \frac{127}{719}, -\frac{152}{719}, -\frac{199}{719}, \frac{80}{719}, \frac{219}{719}, -\frac{25}{719})$ $+\frac{12}{719}\sqrt{1630}e^2 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^4 \otimes e_6$	{12345, 123457, 1236, 12367, 14789, 1489, 156789, 15689, 24578, 2458, 2678, 268, 3479, 349, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{74}\sqrt{781}e^{12}, \frac{1}{148}\sqrt{1562}e^{13} + \frac{1}{74}\sqrt{781}e^{45}$	$(-\frac{19}{148}, \frac{55}{148}, \frac{3}{148}, \frac{55}{296}, -\frac{87}{296}, \frac{99}{296}, -\frac{43}{296}, \frac{9}{37}, -\frac{4}{37})$ $+\frac{3}{148}\sqrt{994}e^2 \otimes e_9 + \frac{71}{148}e^4 \otimes e_5 + \frac{71}{148}e^6 \otimes e_7$	{14689, 14789, 15689, 15789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{3441}\sqrt{51143}e^{12}, \frac{2}{3441}\sqrt{85838}e^{13} + \frac{8}{3441}\sqrt{16705}e^{45}$ $+ \frac{10}{3441}\sqrt{12079}e^5 \otimes e_8 + \frac{2}{3441}\sqrt{156770}e^7 \otimes e_9 + \frac{2}{3441}\sqrt{168335}e^1 \otimes e_3 + \frac{2}{3441}\sqrt{199689}e^4 \otimes e_6$	$(\frac{139}{1147}, -\frac{572}{3441}, -\frac{97}{3441}, \frac{13}{1147}, \frac{359}{3441}, -\frac{553}{3441}, \frac{278}{1147}, -\frac{5}{111}, \frac{320}{3441})$	{12457, 1678, 23678, 3457}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{17}e^{12}, \frac{1}{47}\sqrt{323}e^{13} + \frac{2}{47}\sqrt{51}e^{45}$	$(-\frac{17}{47}, \frac{15}{47}, \frac{15}{47}, -\frac{1}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{2}{47}, -\frac{2}{47})$ $+\frac{1}{47}\sqrt{663}e^3 \otimes e_8 + \frac{3}{47}\sqrt{85}e^2 \otimes e_9$	{123, 12345, 123456, 1234567, 1236, 12367, 146789, 14689, 1489, 245678, 24568, 2458, 2678, 268, 28, 34679, 3469, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{17}e^{12}, \frac{1}{47}\sqrt{323}e^{13} + \frac{2}{47}\sqrt{51}e^{45}$	$(-\frac{17}{47}, \frac{15}{47}, \frac{15}{47}, -\frac{1}{47}, -\frac{1}{47}, \frac{5}{47}, \frac{5}{47}, -\frac{2}{47}, -\frac{2}{47})$ $-\frac{1}{47}\sqrt{663}e^3 \otimes e_8 + \frac{3}{47}\sqrt{85}e^2 \otimes e_9$	{123, 12345, 123456, 1234567, 1236, 12367, 146789, 14689, 1489, 245678, 24568, 2458, 2678, 268, 28, 34679, 3469, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{12}{173}\sqrt{13}e^{12}, \frac{12}{173}\sqrt{37}e^{13} + \frac{12}{173}\sqrt{13}e^{45}$	$(-\frac{35}{173}, \frac{2}{173}, \frac{39}{173}, \frac{38}{173}, -\frac{34}{173}, \frac{76}{173}, \frac{15}{173}, -\frac{33}{173}, \frac{4}{173})$ $+\frac{12}{173}\sqrt{61}e^3 \otimes e_8 + \frac{12}{173}\sqrt{61}e^6 \otimes e_9 + \frac{72}{173}e^4 \otimes e_5$	{14789, 1489, 15789, 1589, 3479, 349, 3579, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{66}{461}\sqrt{10}e^{12}, \frac{24}{461}\sqrt{22}e^{13} + \frac{6}{461}\sqrt{22}e^{45}$	$(\frac{66}{461}, \frac{82}{461}, \frac{6}{461}, -\frac{63}{461}, \frac{135}{461}, -\frac{132}{461}, -\frac{116}{461}, \frac{148}{461}, \frac{72}{461})$ $+\frac{198}{461}e^5 \otimes e_4 + \frac{66}{461}\sqrt{14}e^2 \otimes e_7 + \frac{6}{461}\sqrt{1870}e^1 \otimes e_6$	{1249, 1259, 14789, 15789, 234689, 235689, 34679, 35679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{58}e^{12}, \frac{1}{18}\sqrt{29}e^{13} + \frac{1}{18}\sqrt{58}e^{45}$	$(\frac{1}{9}, \frac{5}{36}, \frac{1}{6}, \frac{17}{18}, -\frac{2}{3}, \frac{7}{36}, \frac{7}{36}, \frac{1}{4}, \frac{5}{18})$ $+\frac{29}{18}e^4 \otimes e_5$	{124679, 12469, 1249, 125679, 12569, 1259, 146789, 14689, 1489, 156789, 15689, 1589, 2346789, 234689, 23489, 2356789, 235689, 23589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{12}{137}\sqrt{13}e^{12}, \frac{12}{137}\sqrt{37}e^{13} + \frac{12}{137}\sqrt{13}e^{45}$	$(\frac{26}{137}, \frac{2}{137}, -\frac{22}{137}, \frac{2}{137}, \frac{2}{137}, \frac{76}{137}, -\frac{46}{137}, \frac{28}{137}, \frac{4}{137})$ $+\frac{12}{137}\sqrt{61}e^1 \otimes e_7 + \frac{12}{137}\sqrt{61}e^6 \otimes e_9$	{123456, 1236, 1249, 134568, 1368, 1489, 234789, 245678, 2678, 3479, 4567, 67}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1681}\sqrt{194394}e^{12}, \frac{2}{1681}\sqrt{4654}e^{13} + \frac{6}{1681}\sqrt{4117}e^{45}$	$(-\frac{76}{1681}, \frac{183}{1681}, \frac{80}{1681}, -\frac{282}{1681}, \frac{286}{1681}, -\frac{255}{1681}, \frac{132}{1681}, \frac{107}{1681}, \frac{4}{1681})$ $+\frac{3}{1681}\sqrt{15394}e^1 \otimes e_6 + \frac{4}{1681}\sqrt{12709}e^5 \otimes e_8 + \frac{6}{1681}\sqrt{5907}e^2 \otimes e_9$	{12345, 123457, 14789, 1489, 2678, 268, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{841}\sqrt{7358}e^{12}, \frac{3}{841}\sqrt{2730}e^{13} + \frac{78}{841}\sqrt{7}e^{45}$	$(\frac{75}{841}, -\frac{30}{841}, -\frac{42}{841}, -\frac{129}{841}, \frac{162}{841}, -\frac{147}{841}, \frac{150}{841}, \frac{45}{841}, \frac{33}{841})$ $+\frac{3}{841}\sqrt{2522}e^7 \otimes e_9 + \frac{3}{841}\sqrt{7566}e^5 \otimes e_8 + \frac{60}{841}\sqrt{13}e^1 \otimes e_3 + \frac{60}{841}\sqrt{13}e^2 \otimes e_6$	{12457, 1678, 2378, 34567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13} + \frac{2}{11}\sqrt{7}e^{45}$	$(-\frac{1}{11}, \frac{7}{11}, \frac{3}{11}, \frac{1}{11}, \frac{1}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{6}{11}, \frac{2}{11})$ $+\frac{6}{11}\sqrt{7}e^2 \otimes e_6$	{12, 123479, 12349, 1245, 12457, 127, 1346789, 134689, 145678, 14568, 1678, 168, 234578, 23458, 2378, 238, 24789, 2489, 3456, 34567, 36, 367, 4679, 469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1090}e^{12}, \frac{1}{146}\sqrt{4578}e^{13} + \frac{1}{146}\sqrt{327}e^{45}$	$(-\frac{49}{292}, \frac{61}{146}, \frac{121}{292}, \frac{9}{73}, \frac{9}{73}, -\frac{24}{73}, -\frac{97}{292}, \frac{1}{4}, \frac{18}{73})$ $+\frac{1}{146}\sqrt{14061}e^2 \otimes e_6 + \frac{1}{146}\sqrt{14170}e^3 \otimes e_7$	{1234, 124579, 1279, 13468, 1456789, 16789, 234589, 2389, 2478, 34569, 369, 467}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{377}\sqrt{5453}e^{12}, \frac{1}{377}\sqrt{11438}e^{13} + \frac{5}{377}\sqrt{1330}e^{45}$	$(\frac{3}{29}, -\frac{94}{377}, \frac{76}{377}, \frac{37}{377}, \frac{29}{377}, -\frac{96}{377}, \frac{33}{377}, -\frac{55}{377}, \frac{115}{377})$ $+\frac{1}{377}\sqrt{34314}e^4 \otimes e_6 + \frac{2}{377}\sqrt{11305}e^5 \otimes e_8 + \frac{3}{377}\sqrt{1330}e^1 \otimes e_2$	{134789, 13489, 1678, 168, 23678, 2368, 24789, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{3922}e^{12}, \frac{2}{199}\sqrt{1219}e^{13} + \frac{2}{199}\sqrt{742}e^{45}$	$(\frac{58}{199}, -\frac{55}{199}, -\frac{48}{199}, \frac{5}{199}, \frac{5}{199}, \frac{109}{199}, \frac{19}{199}, \frac{3}{199}, \frac{10}{199})$ $+ \frac{6}{199}\sqrt{530}e^1 \otimes e_3 + \frac{6}{199}\sqrt{530}e^6 \otimes e_8$	{12456, 124567, 126, 1267, 14578, 1458, 178, 18, 234578, 23458, 2378, 238, 3456, 34567, 36, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{11}{223}\sqrt{230}e^{12}, \frac{2}{223}\sqrt{7337}e^{13} + \frac{2}{223}\sqrt{759}e^{45}$	$(-\frac{73}{223}, -\frac{15}{223}, \frac{165}{223}, \frac{46}{223}, \frac{46}{223}, \frac{40}{223}, \frac{40}{223}, -\frac{88}{223}, \frac{92}{223})$ $+ \frac{1}{223}\sqrt{92598}e^3 \otimes e_8$	{1234, 12346, 123467, 1456789, 145689, 14589, 16789, 1689, 189, 24678, 2468, 248, 345679, 34569, 3459, 3679, 369, 39}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{146}\sqrt{327}e^{12}, \frac{1}{146}\sqrt{4578}e^{13} + \frac{1}{73}\sqrt{1090}e^{45}$	$(\frac{31}{73}, -\frac{47}{146}, -\frac{9}{292}, \frac{61}{146}, -\frac{7}{292}, -\frac{24}{73}, \frac{33}{292}, \frac{15}{146}, \frac{115}{292})$ $+ \frac{1}{146}\sqrt{14061}e^4 \otimes e_6 + \frac{1}{146}\sqrt{14170}e^1 \otimes e_2$	{1345, 13457, 136, 1367, 1479, 149, 15679, 1569, 23479, 2349, 235679, 23569, 245, 2457, 26, 267}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{7}e^{12}, \frac{2}{11}\sqrt{7}e^{13} + \frac{4}{11}\sqrt{7}e^{45}$	$(\frac{2}{11}, \frac{1}{11}, \frac{3}{11}, \frac{7}{11}, -\frac{2}{11}, -\frac{7}{11}, \frac{2}{11}, \frac{3}{11}, \frac{5}{11})$ $+ \frac{6}{11}\sqrt{7}e^4 \otimes e_6$	{123479, 12349, 1235679, 123569, 1245, 12457, 126, 1267, 134789, 13489, 1356789, 135689, 14578, 1458, 1678, 168, 234578, 23458, 23678, 2368, 24789, 2489, 256789, 25689, 345, 3457, 36, 367, 479, 49, 5679, 569}
92:5	$0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{17}e^{12}, \frac{1}{47}\sqrt{323}e^{13} + \frac{2}{47}\sqrt{51}e^{45}$	$(\frac{5}{94}, \frac{15}{47}, -\frac{9}{94}, -\frac{1}{47}, -\frac{1}{47}, -\frac{29}{94}, \frac{5}{47}, \frac{35}{94}, -\frac{2}{47})$ $+ \frac{1}{47}\sqrt{663}e^1 \otimes e_6 + \frac{3}{47}\sqrt{85}e^2 \otimes e_9$	{123, 12345, 123457, 1237, 14789, 1489, 245678, 24568, 2678, 268, 34679, 3469}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1090}e^{12}, \frac{1}{146}\sqrt{4578}e^{13} + \frac{1}{146}\sqrt{327}e^{45}$	$(\frac{81}{292}, -\frac{137}{292}, -\frac{9}{292}, \frac{9}{73}, \frac{9}{73}, \frac{146}{146}, \frac{33}{292}, -\frac{14}{73}, \frac{18}{73})$ $+ \frac{1}{146}\sqrt{14061}e^6 \otimes e_8 + \frac{1}{146}\sqrt{14170}e^1 \otimes e_2$	{13478, 1348, 145789, 14589, 1789, 189, 2345789, 234589, 23789, 2389, 2478, 248}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{3469}\sqrt{314878}e^{12}, \frac{2}{3469}\sqrt{196170}e^{13} + \frac{2}{3469}\sqrt{178062}e^{45}$	$(-\frac{752}{3469}, \frac{826}{3469}, \frac{572}{3469}, -\frac{593}{3469}, \frac{413}{3469}, -\frac{434}{3469}, \frac{1080}{3469}, \frac{74}{3469}, -\frac{180}{3469})$ $+ \frac{1006}{3469}e^5 \otimes e_4 + \frac{12}{3469}\sqrt{16599}e^2 \otimes e_9 + \frac{2}{3469}\sqrt{351094}e^3 \otimes e_6 + \frac{8}{3469}\sqrt{25653}e^7 \otimes e_8$	{14689, 15689, 3479, 3579}
92:5	$0, 0, 0, 0, 0, 0, \frac{3}{496}\sqrt{1462}e^{12}, \frac{1}{248}\sqrt{11739}e^{13} + \frac{1}{496}\sqrt{258}e^{45}$	$(\frac{107}{992}, -\frac{151}{992}, \frac{5}{992}, \frac{7}{124}, \frac{7}{124}, \frac{185}{496}, -\frac{253}{992}, -\frac{11}{248}, \frac{7}{62})$ $+ \frac{1}{496}\sqrt{40119}e^1 \otimes e_2 + \frac{1}{496}\sqrt{40119}e^3 \otimes e_7 + \frac{3}{248}\sqrt{1118}e^6 \otimes e_9$	{13456, 136, 1479, 2349, 24567, 267}
92:5	$0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{3922}e^{12}, \frac{2}{199}\sqrt{1219}e^{13} + \frac{2}{199}\sqrt{742}e^{45}$	$(\frac{58}{199}, \frac{35}{199}, -\frac{48}{199}, \frac{5}{199}, \frac{5}{199}, -\frac{71}{199}, \frac{19}{199}, \frac{93}{199}, \frac{10}{199})$ $+ \frac{6}{199}\sqrt{530}e^1 \otimes e_3 + \frac{6}{199}\sqrt{530}e^2 \otimes e_6$	{12, 1245, 12457, 127, 145678, 14568, 1678, 168, 234578, 23458, 2378, 238, 3456, 34567, 36, 367}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{1885}\sqrt{243082}e^{12}, \frac{4}{1885}\sqrt{3401}e^{13} + \frac{4}{1885}\sqrt{11993}e^{45}$	$(\frac{8}{377}, \frac{16}{377}, -\frac{139}{1885}, -\frac{398}{1885}, \frac{23}{145}, \frac{138}{1885}, \frac{138}{1885}, \frac{24}{377}, -\frac{99}{1885})$ $+ \frac{1}{1885}\sqrt{153582}e^1 \otimes e_3 + \frac{1}{1885}\sqrt{249526}e^5 \otimes e_8 + \frac{3}{1885}\sqrt{24702}e^2 \otimes e_9$	{1245, 12456, 124567, 23678, 2368, 238}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{910}e^{12}, \frac{3}{71}\sqrt{546}e^{13} + \frac{1}{71}\sqrt{910}e^{45}$	$(\frac{49}{71}, -\frac{42}{71}, -\frac{15}{71}, \frac{17}{71}, \frac{17}{71}, \frac{12}{71}, \frac{12}{71}, \frac{7}{71}, \frac{34}{71})$ $+ \frac{1}{71}\sqrt{10738}e^1 \otimes e_2$	{134, 1346, 13467, 145679, 14569, 1459, 1679, 169, 19, 2345679, 234569, 23459, 23679, 2369, 239, 24, 246, 2467}
92:5	$0, 0, 0, 0, 0, 0, \frac{1}{18}\sqrt{58}e^{12}, \frac{1}{18}\sqrt{29}e^{13} + \frac{1}{18}\sqrt{58}e^{45}$	$(\frac{1}{9}, \frac{5}{36}, \frac{1}{6}, \frac{5}{36}, \frac{5}{36}, 1, -\frac{11}{18}, \frac{1}{4}, \frac{5}{18})$ $+ \frac{29}{18}e^6 \otimes e_7$	{123456, 123457, 1236, 1237, 12469, 12479, 134568, 134578, 1368, 1378, 14689, 14789, 234689, 234789, 24568, 24578, 268, 278, 3469, 3479, 456, 457, 6, 7}
92:5	$0, 0, 0, 0, 0, 0, \frac{33}{181}\sqrt{10}e^{12}, \frac{12}{181}\sqrt{22}e^{13} + \frac{3}{181}\sqrt{22}e^{45}$	$(\frac{33}{181}, -\frac{36}{181}, \frac{3}{181}, \frac{18}{181}, \frac{18}{181}, \frac{96}{181}, -\frac{66}{181}, -\frac{3}{181}, \frac{36}{181})$ $+ \frac{33}{181}\sqrt{14}e^6 \otimes e_8 + \frac{3}{181}\sqrt{1870}e^1 \otimes e_7$	{123456, 1236, 12469, 13458, 138, 1489, 234789, 24578, 278, 34679, 4567, 67}
92:5	$0, 0, 0, 0, 0, 0, \frac{22}{699}\sqrt{230}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{4}{699}\sqrt{759}e^{45}$	$(-\frac{146}{699}, -\frac{10}{233}, \frac{110}{233}, \frac{115}{233}, -\frac{161}{699}, \frac{80}{699}, \frac{80}{699}, -\frac{176}{699}, \frac{184}{699})$ $+ \frac{2}{699}\sqrt{92598}e^3 \otimes e_8 + \frac{506}{699}e^4 \otimes e_5$	{1234, 12346, 123467, 1235, 12356, 123567, 24678, 2468, 248, 25678, 2568, 258}
92:5	$0, 0, 0, 0, 0, 0, \frac{22}{699}\sqrt{230}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{4}{699}\sqrt{759}e^{45}$	$(-\frac{146}{699}, -\frac{10}{233}, \frac{110}{233}, \frac{92}{233}, \frac{92}{233}, \frac{111}{233}, -\frac{173}{699}, -\frac{176}{699}, \frac{184}{699})$ $+ \frac{2}{699}\sqrt{92598}e^3 \otimes e_8 + \frac{506}{699}e^6 \otimes e_7$	{12346, 12347, 145689, 145789, 1689, 1789, 2468, 2478, 34569, 34579, 369, 379}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1031}\sqrt{15194}e^{12}, \frac{2}{1031}\sqrt{27178}e^{13} + \frac{4}{1031}\sqrt{535}e^{45}$	$(-\frac{21}{1031}, -\frac{72}{1031}, \frac{121}{1031}, -\frac{57}{1031}, \frac{157}{1031}, -\frac{235}{1031}, \frac{314}{1031}, -\frac{93}{1031}, \frac{100}{1031})$ $+ \frac{214}{1031}e^5 \otimes e_4 + \frac{2}{1031}\sqrt{32635}e^1 \otimes e_6 + \frac{2}{1031}\sqrt{32635}e^3 \otimes e_8 + \frac{4}{1031}\sqrt{6527}e^7 \otimes e_9$	{1489, 1589, 3469, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1649}\sqrt{52682}e^{12}, \frac{106}{1649}\sqrt{7}e^{13} + \frac{3}{1649}\sqrt{48230}e^{45}$	$(-\frac{52}{1649}, -\frac{158}{1649}, \frac{232}{1649}, \frac{19}{1649}, \frac{161}{1649}, \frac{551}{1649}, -\frac{352}{1649}, -\frac{210}{1649}, \frac{180}{1649})$ $+ \frac{2}{1649}\sqrt{115010}e^5 \otimes e_8 + \frac{2}{1649}\sqrt{88669}e^4 \otimes e_7 + \frac{5}{1649}\sqrt{12614}e^6 \otimes e_9$	{123579, 12456, 13489, 1678, 23678, 2489, 3456, 579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{8}{825}\sqrt{103}e^{12}, \frac{2}{825}\sqrt{23690}e^{13} + \frac{8}{825}\sqrt{103}e^{45}$	$(\frac{8}{275}, \frac{182}{825}, \frac{16}{275}, -\frac{67}{825}, \frac{139}{825}, \frac{52}{825}, \frac{278}{825}, -\frac{158}{825}, \frac{24}{275})$ $+ \frac{206}{825}e^5 \otimes e_4 + \frac{2}{825}\sqrt{22454}e^1 \otimes e_2 + \frac{2}{825}\sqrt{23278}e^3 \otimes e_8 + \frac{2}{825}\sqrt{23278}e^7 \otimes e_9$	{14689, 1489, 15689, 1589}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3409}\sqrt{34486}e^{12}, \frac{4}{3409}\sqrt{82205}e^{13} + \frac{4}{3409}\sqrt{30877}e^{45}$	$(\frac{129}{3409}, -\frac{673}{3409}, \frac{258}{3409}, -\frac{12}{487}, \frac{471}{3409}, -\frac{331}{3409}, \frac{1189}{3409}, -\frac{544}{3409}, \frac{387}{3409})$ $+ \frac{2}{3409}\sqrt{222555}e^5 \otimes e_6 + \frac{2}{3409}\sqrt{325211}e^1 \otimes e_2 + \frac{2}{3409}\sqrt{342454}e^3 \otimes e_8 + \frac{2}{3409}\sqrt{386965}e^7 \otimes e_9$	{14689, 1589, 24578, 2678}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{269}\sqrt{1430}e^{12}, \frac{6}{269}\sqrt{330}e^{13} + \frac{2}{269}\sqrt{1430}e^{45}$	$(-\frac{56}{269}, \frac{106}{269}, \frac{52}{269}, -\frac{57}{269}, \frac{53}{269}, -\frac{58}{269}, \frac{24}{269}, \frac{50}{269}, -\frac{4}{269})$ $+ \frac{110}{269}e^5 \otimes e_4 + \frac{12}{269}\sqrt{165}e^2 \otimes e_9 + \frac{2}{269}\sqrt{4510}e^3 \otimes e_6$	{146789, 14689, 156789, 15689, 3479, 349, 3579, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{20}{509}\sqrt{82}e^{12}, \frac{2}{509}\sqrt{3731}e^{13} + \frac{2}{509}\sqrt{4346}e^{45}$	$(\frac{65}{509}, -\frac{26}{509}, -\frac{17}{509}, -\frac{73}{509}, \frac{121}{509}, -\frac{108}{509}, \frac{33}{509}, \frac{39}{509}, \frac{48}{509})$ $+ \frac{2}{509}\sqrt{5781}e^1 \otimes e_3 + \frac{2}{509}\sqrt{5781}e^2 \otimes e_6 + \frac{2}{509}\sqrt{7954}e^5 \otimes e_8$	{1245, 12457, 1678, 168, 2378, 238, 3456, 34567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13} + \frac{3}{401}\sqrt{2233}e^{45}$	$(-\frac{71}{802}, \frac{231}{802}, \frac{17}{802}, \frac{88}{401}, -\frac{115}{401}, \frac{176}{401}, -\frac{175}{802}, \frac{80}{401}, -\frac{27}{401})$ $+ \frac{14}{401}\sqrt{290}e^6 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^2 \otimes e_7 + \frac{203}{401}e^4 \otimes e_5$	{1249, 1259, 14789, 15789, 23489, 23589, 3479, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{64}\sqrt{17}e^{12}, \frac{1}{64}\sqrt{323}e^{13} + \frac{1}{32}\sqrt{51}e^{45}$	$(-\frac{17}{64}, \frac{15}{64}, \frac{15}{64}, -\frac{19}{128}, \frac{15}{128}, -\frac{7}{128}, \frac{27}{128}, -\frac{1}{32}, -\frac{1}{32})$ $+ \frac{17}{64}e^5 \otimes e_4 + \frac{17}{64}e^7 \otimes e_6 - \frac{1}{64}\sqrt{663}e^3 \otimes e_8 + \frac{3}{64}\sqrt{85}e^2 \otimes e_9$	{14689, 14789, 15689, 15789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{64}\sqrt{17}e^{12}, \frac{1}{64}\sqrt{323}e^{13} + \frac{1}{32}\sqrt{51}e^{45}$	$(-\frac{17}{64}, \frac{15}{64}, \frac{15}{64}, -\frac{19}{128}, \frac{15}{128}, -\frac{7}{128}, \frac{27}{128}, -\frac{1}{32}, -\frac{1}{32})$ $+ \frac{17}{64}e^5 \otimes e_4 + \frac{17}{64}e^7 \otimes e_6 + \frac{1}{64}\sqrt{663}e^3 \otimes e_8 + \frac{3}{64}\sqrt{85}e^2 \otimes e_9$	{14689, 14789, 15689, 15789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13} + \frac{4}{111}\sqrt{51}e^{45}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{10}{37}, -\frac{19}{111}, \frac{5}{37}, \frac{10}{111}, \frac{10}{111}, -\frac{4}{111}, -\frac{4}{111})$ $- \frac{2}{111}\sqrt{663}e^3 \otimes e_8 + \frac{2}{37}\sqrt{85}e^2 \otimes e_9 + \frac{34}{111}e^5 \otimes e_4$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13} + \frac{4}{111}\sqrt{51}e^{45}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{10}{37}, -\frac{19}{111}, \frac{5}{37}, \frac{10}{111}, \frac{10}{111}, -\frac{4}{111}, -\frac{4}{111})$ $+ \frac{2}{111}\sqrt{663}e^3 \otimes e_8 + \frac{2}{37}\sqrt{85}e^2 \otimes e_9 + \frac{34}{111}e^5 \otimes e_4$	{146789, 14689, 1489, 156789, 15689, 1589, 34679, 3469, 349, 35679, 3569, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{301}\sqrt{6987}e^{12}, \frac{1}{301}\sqrt{1370}e^{13} + \frac{3}{301}\sqrt{1918}e^{45}$	$(\frac{53}{301}, -\frac{69}{301}, \frac{38}{301}, \frac{121}{301}, -\frac{30}{301}, -\frac{12}{43}, \frac{33}{301}, -\frac{16}{301}, \frac{13}{43})$ $+ \frac{1}{301}\sqrt{41374}e^4 \otimes e_8 + \frac{3}{301}\sqrt{3562}e^1 \otimes e_6$	{123479, 12349, 1245, 12457, 135789, 13589, 178, 18, 23678, 2368, 256789, 25689, 3456, 34567, 4679, 469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{7}{202}\sqrt{158}e^{12}, \frac{1}{202}\sqrt{8690}e^{13} + \frac{1}{101}\sqrt{474}e^{45}$	$(\frac{13}{404}, -\frac{15}{101}, \frac{111}{404}, \frac{31}{202}, \frac{31}{202}, -\frac{145}{404}, \frac{19}{202}, -\frac{47}{404}, \frac{31}{101})$ $+ \frac{1}{202}\sqrt{14457}e^1 \otimes e_6 + \frac{1}{202}\sqrt{14457}e^3 \otimes e_8$	{1234, 12347, 145789, 14589, 1789, 189, 24678, 2468, 345679, 34569, 3679, 369}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{247}\sqrt{609}e^{12}, \frac{28}{247}\sqrt{2}e^{13} + \frac{4}{247}\sqrt{609}e^{45}$	$(-\frac{49}{247}, \frac{45}{247}, \frac{2}{13}, \frac{4}{19}, -\frac{63}{247}, \frac{24}{247}, \frac{24}{247}, -\frac{4}{247}, -\frac{11}{247})$ $+ \frac{24}{247}\sqrt{21}e^2 \otimes e_9 + \frac{4}{247}\sqrt{805}e^4 \otimes e_8$	{1245, 12456, 124567, 1356789, 135689, 13589, 23678, 2368, 238, 4679, 469, 49}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{301}\sqrt{1918}e^{12}, \frac{1}{301}\sqrt{1370}e^{13} + \frac{2}{301}\sqrt{6987}e^{45}$	$(-\frac{25}{301}, -\frac{30}{301}, \frac{38}{301}, \frac{82}{301}, -\frac{69}{301}, \frac{150}{301}, \frac{33}{301}, -\frac{55}{301}, \frac{13}{301})$ $+ \frac{1}{301}\sqrt{41374}e^4 \otimes e_8 + \frac{3}{301}\sqrt{3562}e^6 \otimes e_9$	{123479, 12349, 12456, 124567, 135789, 13589, 1678, 168, 23678, 2368, 25789, 2589, 3456, 34567, 479, 49}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{39730}e^{12}, \frac{2}{731}\sqrt{19043}e^{13} + \frac{28}{731}\sqrt{137}e^{45}$	$(-\frac{82}{731}, \frac{61}{731}, \frac{208}{731}, \frac{253}{731}, -\frac{127}{731}, \frac{213}{731}, \frac{69}{731}, -\frac{21}{731}, \frac{126}{731})$ $+ \frac{2}{731}\sqrt{38634}e^2 \otimes e_6 + \frac{4}{731}\sqrt{13015}e^4 \otimes e_8$	{123479, 12349, 1245, 12457, 1356789, 135689, 1678, 168, 2378, 238, 25789, 2589, 3456, 34567, 4679, 469}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1649}\sqrt{48230}e^{12}, \frac{106}{1649}\sqrt{7}e^{13} + \frac{2}{1649}\sqrt{52682}e^{45}$	$(\frac{72}{1649}, \frac{19}{1649}, \frac{232}{1649}, -\frac{158}{1649}, \frac{462}{1649}, -\frac{299}{1649}, -\frac{352}{1649}, \frac{91}{1649}, \frac{304}{1649})$ $+ \frac{2}{1649}\sqrt{115010}e^5 \otimes e_8 + \frac{2}{1649}\sqrt{88669}e^2 \otimes e_7 + \frac{5}{1649}\sqrt{12614}e^1 \otimes e_6$	{12359, 1245, 134789, 178, 2368, 24689, 34567, 5679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{6}{599}\sqrt{2233}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{4}{599}\sqrt{4466}e^{45}$	$(-\frac{82}{599}, -\frac{27}{599}, \frac{297}{599}, \frac{231}{599}, -\frac{16}{599}, -\frac{175}{599}, \frac{72}{599}, -\frac{109}{599}, \frac{215}{599})$ $+ \frac{28}{599}\sqrt{290}e^3 \otimes e_8 + \frac{2}{599}\sqrt{50141}e^4 \otimes e_6$	{12345, 123457, 1236, 12367, 14789, 1489, 156789, 15689, 24578, 2458, 2678, 268, 3479, 349, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{275}\sqrt{609}e^{12}, \frac{28}{275}\sqrt{2}e^{13} + \frac{4}{275}\sqrt{609}e^{45}$	$(-\frac{49}{275}, \frac{9}{55}, \frac{38}{275}, \frac{52}{275}, -\frac{63}{275}, \frac{52}{275}, -\frac{4}{275}, -\frac{4}{275}, -\frac{1}{25})$ $+ \frac{24}{275}\sqrt{21}e^2 \otimes e_9 + \frac{4}{275}\sqrt{805}e^4 \otimes e_8 + \frac{56}{275}e^6 \otimes e_7$	{12456, 12457, 135689, 135789, 2368, 2378, 469, 479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1419}\sqrt{32171}e^{12}, \frac{1}{473}\sqrt{42490}e^{13} + \frac{1}{1419}\sqrt{52202}e^{45}$	$(\frac{53}{473}, -\frac{448}{1419}, \frac{106}{473}, \frac{76}{1419}, \frac{401}{1419}, -\frac{206}{1419}, \frac{119}{1419}, -\frac{289}{1419}, \frac{159}{473})$ $+ \frac{1}{1419}\sqrt{559654}e^1 \otimes e_2 + \frac{2}{1419}\sqrt{155999}e^3 \otimes e_8 + \frac{5}{1419}\sqrt{15782}e^5 \otimes e_6$	{146789, 14689, 15789, 1589, 24578, 2458, 2678, 268}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{401}\sqrt{4466}e^{12}, \frac{1}{401}\sqrt{11165}e^{13} + \frac{3}{401}\sqrt{2233}e^{45}$	$(-\frac{71}{802}, -\frac{8}{401}, \frac{17}{802}, \frac{88}{401}, -\frac{115}{401}, \frac{319}{802}, \frac{176}{401}, -\frac{87}{802}, -\frac{27}{401})$ $+ \frac{14}{401}\sqrt{290}e^7 \otimes e_9 + \frac{1}{401}\sqrt{50141}e^6 \otimes e_8 + \frac{203}{401}e^4 \otimes e_5$	{12469, 12569, 1489, 1589, 23489, 23589, 3469, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{2674}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{2}{719}\sqrt{10887}e^{45}$	$(\frac{84}{719}, -\frac{298}{719}, \frac{168}{719}, \frac{126}{719}, \frac{69}{719}, \frac{69}{719}, -\frac{214}{719}, \frac{252}{719})$ $+ \frac{2}{719}\sqrt{59401}e^1 \otimes e_2 + \frac{2}{719}\sqrt{64749}e^3 \otimes e_8$	{1456789, 145689, 14589, 16789, 1689, 189, 24678, 2468, 248}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{15}{529}\sqrt{10}e^{12}, \frac{5}{529}\sqrt{1390}e^{13} + \frac{10}{529}\sqrt{105}e^{45}$	$(\frac{35}{529}, -\frac{90}{529}, \frac{26}{529}, -\frac{9}{529}, \frac{70}{529}, -\frac{99}{529}, \frac{186}{529}, -\frac{55}{529}, \frac{61}{529})$ $+ \frac{10}{529}\sqrt{330}e^1 \otimes e_2 + \frac{10}{529}\sqrt{330}e^3 \otimes e_6 + \frac{15}{529}\sqrt{170}e^7 \otimes e_9 + \frac{5}{529}\sqrt{790}e^5 \otimes e_8$	{13457, 1569, 2359, 24567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{107}\sqrt{1430}e^{12}, \frac{3}{107}\sqrt{330}e^{13} + \frac{1}{107}\sqrt{1430}e^{45}$	$(-\frac{28}{107}, \frac{53}{107}, \frac{26}{107}, -\frac{1}{107}, -\frac{1}{107}, -\frac{29}{107}, \frac{12}{107}, \frac{25}{107}, -\frac{2}{107})$ $+ \frac{1}{107}\sqrt{4510}e^3 \otimes e_6 + \frac{6}{107}\sqrt{165}e^2 \otimes e_9$	{123, 12345, 123457, 1237, 146789, 14689, 245678, 24568, 2678, 268, 3479, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{401}\sqrt{1090}e^{12}, \frac{2}{401}\sqrt{4578}e^{13} + \frac{2}{401}\sqrt{327}e^{45}$	$(-\frac{49}{401}, \frac{122}{401}, \frac{121}{401}, -\frac{73}{401}, \frac{145}{401}, \frac{96}{401}, \frac{97}{401}, \frac{73}{401}, \frac{72}{401})$ $+ \frac{218}{401}e^5 \otimes e_4 + \frac{2}{401}\sqrt{14061}e^2 \otimes e_6 + \frac{2}{401}\sqrt{14170}e^3 \otimes e_7$	{1234, 1235, 13468, 13568, 2478, 2578, 467, 567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{8}{73}\sqrt{3}e^{12}, \frac{32}{73}e^{13} + \frac{8}{73}\sqrt{3}e^{45}$	$(\frac{11}{73}, -\frac{21}{73}, \frac{14}{73}, \frac{3}{73}, \frac{22}{73}, -\frac{18}{73}, \frac{6}{73}, -\frac{10}{73}, \frac{25}{73})$ $+ \frac{16}{73}\sqrt{6}e^1 \otimes e_2 + \frac{16}{73}\sqrt{6}e^3 \otimes e_6 + \frac{8}{73}\sqrt{19}e^5 \otimes e_8$	{1378, 138, 146789, 14689, 234789, 23489, 2678, 268}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{11}{223}\sqrt{230}e^{12}, \frac{2}{223}\sqrt{7337}e^{13} + \frac{2}{223}\sqrt{759}e^{45}$	$(\frac{110}{223}, -\frac{15}{223}, -\frac{18}{223}, \frac{46}{223}, \frac{46}{223}, -\frac{143}{223}, \frac{40}{223}, \frac{95}{223}, \frac{92}{223})$ $+ \frac{1}{223}\sqrt{92598}e^1 \otimes e_6$	{1234, 12347, 124579, 12459, 1279, 129, 13478, 1348, 145789, 14589, 1789, 189, 23456789, 2345689, 236789, 23689, 24678, 2468, 345679, 34569, 3679, 369, 46, 467}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{4466}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{6}{599}\sqrt{2233}e^{45}$	$(\frac{176}{599}, -\frac{16}{599}, -\frac{230}{599}, -\frac{27}{599}, -\frac{27}{599}, \frac{352}{599}, \frac{72}{599}, \frac{160}{599}, -\frac{54}{599})$ $+ \frac{28}{599}\sqrt{290}e^6 \otimes e_9 + \frac{2}{599}\sqrt{50141}e^1 \otimes e_3$	{12479, 1249, 14789, 1489, 234789, 23489, 3479, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{33}{181}\sqrt{10}e^{12}, \frac{12}{181}\sqrt{22}e^{13} + \frac{3}{181}\sqrt{22}e^{45}$	$(-\frac{52}{181}, \frac{41}{181}, \frac{88}{181}, \frac{18}{181}, \frac{18}{181}, -\frac{58}{181}, \frac{19}{181}, -\frac{11}{181}, \frac{36}{181})$ $+ \frac{33}{181}\sqrt{14}e^2 \otimes e_6 + \frac{3}{181}\sqrt{1870}e^3 \otimes e_8$	{123, 12345, 123457, 1237, 146789, 14689, 24578, 2458, 278, 28, 34679, 3469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{6}e^{45}$	$(\frac{4}{9}, -\frac{1}{9}, -\frac{2}{9}, \frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{2}{9})$ $+ \frac{4}{9}\sqrt{3}e^1 \otimes e_3 + \frac{4}{9}\sqrt{3}e^4 \otimes e_6$	{1245, 12457, 126, 1267, 14578, 1458, 1678, 168, 234578, 23458, 23678, 2368, 345, 3457, 36, 367}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{4466}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{6}{599}\sqrt{2233}e^{45}$	$(-\frac{71}{599}, \frac{231}{599}, \frac{17}{599}, -\frac{27}{599}, -\frac{27}{599}, \frac{352}{599}, -\frac{175}{599}, \frac{160}{599}, -\frac{54}{599})$ $+ \frac{28}{599}\sqrt{290}e^6 \otimes e_9 + \frac{2}{599}\sqrt{50141}e^2 \otimes e_7$	{123456, 1236, 1249, 1345678, 13678, 14789, 23489, 24568, 268, 3479, 4567, 67}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{73}\sqrt{1090}e^{12}, \frac{1}{146}\sqrt{4578}e^{13} + \frac{1}{146}\sqrt{327}e^{45}$	$(-\frac{49}{292}, -\frac{7}{292}, \frac{121}{292}, \frac{9}{73}, \frac{81}{73}, \frac{146}{146}, -\frac{97}{292}, -\frac{14}{73}, \frac{18}{73})$ $+ \frac{1}{146}\sqrt{14061}e^6 \otimes e_8 + \frac{1}{146}\sqrt{14170}e^3 \otimes e_7$	{12346, 1245679, 12679, 1348, 145789, 1789, 234589, 2389, 2478, 34569, 369, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{910}e^{12}, \frac{3}{71}\sqrt{546}e^{13} + \frac{1}{71}\sqrt{910}e^{45}$	$(-\frac{10}{71}, \frac{17}{71}, \frac{44}{71}, \frac{17}{71}, \frac{17}{71}, -\frac{47}{71}, \frac{12}{71}, \frac{7}{71}, \frac{34}{71})$ $+ \frac{1}{71}\sqrt{10738}e^3 \otimes e_6$	{123478, 12348, 12456789, 1245689, 126789, 12689, 134, 1347, 145679, 14569, 1679, 169, 234579, 23459, 2379, 239, 246, 2467, 345789, 34589, 3789, 389, 4678, 468}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{233}\sqrt{910}e^{12}, \frac{6}{233}\sqrt{546}e^{13} + \frac{2}{233}\sqrt{910}e^{45}$	$(-\frac{20}{233}, \frac{34}{233}, \frac{88}{233}, \frac{125}{233}, -\frac{57}{233}, -\frac{94}{233}, \frac{24}{233}, \frac{14}{233}, \frac{68}{233})$ $+ \frac{182}{233}e^4 \otimes e_5 + \frac{2}{233}\sqrt{10738}e^3 \otimes e_6$	{123478, 12348, 123578, 12358, 134, 1347, 135, 1357, 246, 2467, 256, 2567, 4678, 468, 5678, 568}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{117}\sqrt{1914}e^{12}, \frac{1}{117}\sqrt{66}e^{13} + \frac{1}{117}\sqrt{1914}e^{45}$	$(-\frac{2}{13}, \frac{2}{9}, \frac{11}{117}, \frac{4}{39}, -\frac{19}{117}, \frac{41}{117}, -\frac{7}{39}, \frac{8}{117}, -\frac{7}{117})$ $+ \frac{1}{117}\sqrt{2046}e^4 \otimes e_7 + \frac{1}{117}\sqrt{2046}e^6 \otimes e_8 + \frac{1}{39}\sqrt{330}e^2 \otimes e_9$	{12456, 1267, 13489, 135789, 23458, 2378, 469, 5679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{117}\sqrt{1914}e^{12}, \frac{1}{117}\sqrt{66}e^{13} + \frac{1}{117}\sqrt{1914}e^{45}$	$(\frac{1}{9}, \frac{2}{9}, -\frac{20}{117}, -\frac{19}{117}, \frac{4}{39}, -\frac{7}{39}, \frac{10}{117}, \frac{1}{3}, -\frac{7}{117})$ $+ \frac{1}{117}\sqrt{2046}e^1 \otimes e_3 + \frac{1}{117}\sqrt{2046}e^5 \otimes e_6 + \frac{1}{39}\sqrt{330}e^2 \otimes e_9$	{1245, 12457, 126, 1267, 234578, 23458, 23678, 2368}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{65}\sqrt{58}e^{12}, \frac{2}{65}\sqrt{29}e^{13} + \frac{2}{65}\sqrt{58}e^{45}$	$(\frac{4}{65}, \frac{1}{13}, \frac{6}{65}, \frac{34}{65}, -\frac{24}{65}, \frac{36}{65}, -\frac{22}{65}, \frac{9}{65}, \frac{2}{13})$ $+ \frac{58}{65}e^4 \otimes e_5 + \frac{58}{65}e^6 \otimes e_7$	{12469, 12479, 12569, 12579, 14689, 14789, 15689, 15789, 234689, 234789, 235689, 235789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{8}{53}\sqrt{15}e^{12}, \frac{16}{53}\sqrt{2}e^{13} + \frac{8}{53}\sqrt{15}e^{45}$	$(-\frac{1}{53}, -\frac{9}{53}, \frac{14}{53}, \frac{22}{53}, -\frac{9}{53}, \frac{22}{53}, -\frac{10}{53}, -\frac{10}{53}, \frac{13}{53})$ $+ \frac{32}{53}e^6 \otimes e_7 + \frac{8}{53}\sqrt{31}e^4 \otimes e_8$	{123469, 123479, 12456, 12457, 135689, 135789, 168, 178, 2368, 2378, 25689, 25789, 3456, 3457, 469, 479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{178062}e^{12}, \frac{1}{1483}\sqrt{196170}e^{13} + \frac{1}{1483}\sqrt{314878}e^{45}$	$(-\frac{240}{1483}, \frac{549}{1483}, \frac{286}{1483}, -\frac{181}{1483}, \frac{227}{1483}, -\frac{217}{1483}, \frac{276}{1483}, \frac{309}{1483}, \frac{46}{1483})$ $+ \frac{1}{1483}\sqrt{351094}e^3 \otimes e_6 + \frac{1}{1483}\sqrt{25653}e^5 \otimes e_7 + \frac{6}{1483}\sqrt{16599}e^2 \otimes e_9$	{12345, 1237, 146789, 15689, 24568, 2678, 3479, 359}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{33}{181}\sqrt{10}e^{12}, \frac{12}{181}\sqrt{22}e^{13} + \frac{3}{181}\sqrt{22}e^{45}$	$(\frac{33}{181}, \frac{41}{181}, \frac{3}{181}, \frac{18}{181}, \frac{18}{181}, -\frac{66}{181}, -\frac{58}{181}, \frac{74}{181}, \frac{36}{181})$ $+ \frac{33}{181}\sqrt{14}e^2 \otimes e_7 + \frac{3}{181}\sqrt{1870}e^1 \otimes e_6$	{123, 12345, 1249, 134578, 1378, 14789, 234689, 24568, 268, 34679, 4567, 67}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1573}\sqrt{323162}e^{12}, \frac{4}{1573}\sqrt{17453}e^{13} + \frac{3}{1573}\sqrt{14638}e^{45}$	$(-\frac{400}{1573}, \frac{21}{121}, \frac{436}{1573}, \frac{18}{1573}, \frac{18}{1573}, \frac{599}{1573}, -\frac{290}{1573}, -\frac{127}{1573}, \frac{36}{1573})$ $+ \frac{3}{1573}\sqrt{68686}e^3 \otimes e_8 + \frac{4}{1573}\sqrt{32654}e^6 \otimes e_9 + \frac{5}{1573}\sqrt{19142}e^2 \otimes e_7$	{123456, 1236, 14789, 24568, 268, 3479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1443}\sqrt{319838}e^{12}, \frac{23}{1443}\sqrt{170}e^{13} + \frac{2}{1443}\sqrt{75463}e^{45}$	$(\frac{75}{481}, -\frac{290}{1443}, -\frac{166}{1443}, \frac{326}{1443}, -\frac{89}{481}, \frac{150}{481}, \frac{119}{1443}, -\frac{5}{111}, \frac{59}{1443})$ $+ \frac{1}{1443}\sqrt{258842}e^6 \otimes e_9 + \frac{1}{1443}\sqrt{463726}e^4 \otimes e_8 + \frac{20}{1443}\sqrt{782}e^1 \otimes e_3$	{12456, 124567, 1678, 168, 23678, 2368, 3456, 34567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{1889}\sqrt{47902}e^{12}, \frac{6}{1889}\sqrt{4687}e^{13} + \frac{6}{1889}\sqrt{4429}e^{45}$	$(-\frac{42}{1889}, \frac{279}{1889}, -\frac{66}{1889}, -\frac{54}{1889}, -\frac{54}{1889}, \frac{624}{1889}, -\frac{429}{1889}, \frac{237}{1889}, -\frac{108}{1889})$ $+ \frac{12}{1889}\sqrt{2537}e^6 \otimes e_8 + \frac{4}{1889}\sqrt{1634}e^2 \otimes e_9 + \frac{3}{1889}\sqrt{49966}e^1 \otimes e_7$	{123456, 1236, 1489, 24578, 278, 34679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{462}\sqrt{15194}e^{12}, \frac{1}{462}\sqrt{27178}e^{13} + \frac{1}{231}\sqrt{535}e^{45}$	$(-\frac{1}{44}, -\frac{6}{77}, \frac{11}{84}, \frac{25}{462}, \frac{25}{462}, \frac{157}{462}, -\frac{235}{924}, -\frac{31}{308}, \frac{25}{231})$ $+ \frac{1}{231}\sqrt{6527}e^6 \otimes e_9 + \frac{1}{462}\sqrt{32635}e^1 \otimes e_7 + \frac{1}{462}\sqrt{32635}e^3 \otimes e_8$	{123456, 1236, 1489, 245678, 2678, 3479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{455}\sqrt{2674}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{1}{455}\sqrt{10887}e^{45}$	$(\frac{8}{65}, \frac{1}{70}, \frac{2}{13}, -\frac{1}{14}, \frac{317}{910}, \frac{27}{91}, -\frac{121}{455}, \frac{25}{182}, \frac{18}{65})$ $+ \frac{191}{455}e^5 \otimes e_4 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_7 + \frac{1}{455}\sqrt{64749}e^1 \otimes e_6$	{1234, 1235, 1348, 1358, 24678, 25678, 467, 567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{162}\sqrt{910}e^{12}, \frac{1}{54}\sqrt{546}e^{13} + \frac{1}{162}\sqrt{910}e^{45}$	$(\frac{49}{162}, -\frac{7}{27}, -\frac{5}{54}, \frac{125}{324}, -\frac{19}{108}, \frac{115}{324}, -\frac{67}{324}, \frac{7}{162}, \frac{17}{81})$ $+ \frac{1}{162}\sqrt{10738}e^1 \otimes e_2 + \frac{91}{162}e^4 \otimes e_5 + \frac{91}{162}e^6 \otimes e_7$	{1346, 1347, 1356, 1357, 246, 247, 256, 257}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{6}e^{45}$	$(0, \frac{1}{3}, \frac{2}{9}, \frac{1}{3}, -\frac{1}{9}, -\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, \frac{2}{9})$ $+ \frac{4}{9}\sqrt{3}e^2 \otimes e_6 + \frac{4}{9}\sqrt{3}e^4 \otimes e_7$	{12349, 123579, 1245, 127, 134689, 1356789, 14568, 1678, 23458, 2378, 2489, 25789, 3456, 367, 469, 5679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{7}e^{12}, \frac{1}{9}\sqrt{7}e^{13} + \frac{1}{9}\sqrt{7}e^{45}$	$(-\frac{1}{18}, \frac{7}{18}, \frac{1}{6}, \frac{4}{9}, -\frac{1}{3}, -\frac{7}{18}, \frac{1}{9}, \frac{1}{3}, \frac{1}{9})$ $+\frac{1}{3}\sqrt{7}e^2 \otimes e_6 + \frac{7}{9}e^4 \otimes e_5$	{123479, 12349, 123579, 12359, 1346789, 134689, 1356789, 135689, 24789, 2489, 25789, 2589, 4679, 469, 5679, 569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{22}{699}\sqrt{230}e^{12}, \frac{4}{699}\sqrt{7337}e^{13} + \frac{4}{699}\sqrt{759}e^{45}$	$(\frac{220}{699}, -\frac{10}{233}, -\frac{12}{233}, \frac{115}{233}, -\frac{161}{699}, -\frac{286}{699}, \frac{80}{699}, \frac{190}{699}, \frac{184}{699})$ $+\frac{2}{699}\sqrt{92598}e^1 \otimes e_6 + \frac{506}{699}e^4 \otimes e_5$	{1234, 12347, 1235, 12357, 13478, 1348, 13578, 1358, 24678, 2468, 25678, 2568, 46, 467, 56, 567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{13}{259}\sqrt{37}e^{12}, \frac{13}{518}\sqrt{19}e^{13} + \frac{13}{1036}\sqrt{406}e^{45}$	$(\frac{89}{2072}, \frac{89}{1036}, -\frac{249}{2072}, -\frac{19}{148}, \frac{53}{1036}, -\frac{29}{259}, \frac{605}{2072}, \frac{267}{2072}, -\frac{20}{259})$ $+\frac{13}{1036}\sqrt{465}e^1 \otimes e_3 + \frac{13}{1036}\sqrt{465}e^7 \otimes e_8 + \frac{13}{518}\sqrt{93}e^5 \otimes e_6 + \frac{39}{1036}\sqrt{70}e^2 \otimes e_9$	{12457, 1267, 23458, 2368}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{462}e^{12}, \frac{4}{161}\sqrt{429}e^{13} + \frac{2}{161}\sqrt{462}e^{45}$	$(\frac{31}{161}, -\frac{5}{23}, \frac{17}{161}, -\frac{9}{161}, \frac{57}{161}, -\frac{7}{23}, \frac{10}{161}, -\frac{4}{161}, \frac{48}{161})$ $+\frac{2}{161}\sqrt{1947}e^1 \otimes e_2 + \frac{2}{161}\sqrt{1947}e^3 \otimes e_6 + \frac{66}{161}e^5 \otimes e_4$	{134, 1347, 135, 1357, 246, 2467, 256, 2567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{77}\sqrt{781}e^{12}, \frac{1}{77}\sqrt{1562}e^{13} + \frac{2}{77}\sqrt{781}e^{45}$	$(-\frac{19}{77}, \frac{5}{7}, \frac{3}{77}, -\frac{8}{77}, -\frac{8}{77}, \frac{2}{11}, \frac{2}{11}, \frac{36}{77}, -\frac{16}{77})$ $+\frac{3}{77}\sqrt{994}e^2 \otimes e_9$	{123, 12345, 123456, 1234567, 1236, 12367, 146789, 14689, 1489, 245678, 24568, 2458, 2678, 268, 28, 34679, 3469, 349}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{455}\sqrt{10887}e^{12}, \frac{4}{455}\sqrt{2865}e^{13} + \frac{2}{455}\sqrt{2674}e^{45}$	$(-\frac{57}{455}, \frac{9}{65}, \frac{2}{13}, \frac{102}{455}, -\frac{89}{455}, \frac{204}{455}, -\frac{121}{455}, \frac{6}{455}, \frac{1}{35})$ $+\frac{191}{455}e^4 \otimes e_5 + \frac{1}{455}\sqrt{59401}e^3 \otimes e_7 + \frac{1}{455}\sqrt{64749}e^6 \otimes e_9$	{124789, 125789, 1479, 1579, 2349, 2359, 3489, 3589}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{719}\sqrt{9454}e^{12}, \frac{2}{719}\sqrt{3749}e^{13} + \frac{2}{719}\sqrt{22657}e^{45}$	$(-\frac{175}{719}, \frac{208}{719}, \frac{57}{719}, -\frac{59}{719}, -\frac{59}{719}, \frac{359}{719}, \frac{80}{719}, \frac{33}{719}, -\frac{118}{719})$ $+\frac{12}{719}\sqrt{1630}e^2 \otimes e_9 + \frac{6}{719}\sqrt{5053}e^6 \otimes e_8$	{123456, 1234567, 1236, 12367, 14789, 1489, 24578, 2458, 278, 28, 34679, 3469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{91}\sqrt{442}e^{12}, \frac{2}{91}\sqrt{187}e^{13} + \frac{2}{91}\sqrt{238}e^{45}$	$(\frac{22}{91}, \frac{11}{91}, -\frac{12}{91}, -\frac{1}{13}, \frac{17}{91}, -\frac{23}{91}, -\frac{17}{91}, \frac{33}{91}, \frac{10}{91})$ $+\frac{2}{91}\sqrt{510}e^1 \otimes e_3 + \frac{2}{91}\sqrt{510}e^2 \otimes e_6 + \frac{4}{91}\sqrt{102}e^5 \otimes e_7$	{1245, 127, 14568, 1678, 23458, 2378, 3456, 367}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{599}\sqrt{4466}e^{12}, \frac{2}{599}\sqrt{11165}e^{13} + \frac{6}{599}\sqrt{2233}e^{45}$	$(-\frac{71}{599}, -\frac{16}{599}, \frac{17}{599}, -\frac{27}{599}, -\frac{27}{599}, \frac{319}{599}, \frac{352}{599}, -\frac{87}{599}, -\frac{54}{599})$ $+\frac{28}{599}\sqrt{290}e^7 \otimes e_9 + \frac{2}{599}\sqrt{50141}e^6 \otimes e_8$	{1234567, 12367, 12469, 134578, 1378, 1489, 23489, 24578, 278, 3469, 4567, 67}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12}, \frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{6}e^{45}$	$(0, -\frac{1}{9}, \frac{2}{9}, \frac{1}{3}, -\frac{1}{9}, \frac{5}{9}, -\frac{1}{3}, -\frac{1}{9}, \frac{2}{9})$ $+\frac{4}{9}\sqrt{3}e^4 \otimes e_7 + \frac{4}{9}\sqrt{3}e^6 \otimes e_8$	{123469, 1235679, 12456, 1267, 13489, 135789, 1458, 178, 23458, 2378, 2489, 25789, 3456, 367, 469, 5679}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{12}{173}\sqrt{13}e^{12}, \frac{12}{173}\sqrt{37}e^{13} + \frac{12}{173}\sqrt{13}e^{45}$	$(\frac{26}{173}, \frac{2}{173}, -\frac{22}{173}, \frac{38}{173}, -\frac{34}{173}, \frac{76}{173}, -\frac{46}{173}, \frac{28}{173}, \frac{4}{173})$ $+\frac{12}{173}\sqrt{61}e^1 \otimes e_7 + \frac{12}{173}\sqrt{61}e^6 \otimes e_9 + \frac{72}{173}e^4 \otimes e_5$	{1249, 1259, 1489, 1589, 234789, 235789, 3479, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{199}\sqrt{742}e^{12}, \frac{2}{199}\sqrt{1219}e^{13} + \frac{2}{199}\sqrt{3922}e^{45}$	$(\frac{28}{199}, \frac{5}{199}, \frac{42}{199}, \frac{35}{199}, \frac{35}{199}, -\frac{71}{199}, -\frac{71}{199}, \frac{33}{199}, \frac{70}{199})$ $+\frac{6}{199}\sqrt{530}e^4 \otimes e_6 + \frac{6}{199}\sqrt{530}e^5 \otimes e_7$	{123479, 1245, 1267, 134789, 1458, 1678, 23458, 23678, 24789, 345, 367, 479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{64}\sqrt{462}e^{12}, \frac{1}{32}\sqrt{429}e^{13} + \frac{1}{64}\sqrt{462}e^{45}$	$(\frac{31}{128}, -\frac{35}{128}, \frac{17}{128}, \frac{3}{16}, \frac{3}{16}, -\frac{49}{128}, \frac{5}{64}, -\frac{1}{32}, \frac{3}{8})$ $+\frac{1}{64}\sqrt{1947}e^1 \otimes e_2 + \frac{1}{64}\sqrt{1947}e^3 \otimes e_6$	{134, 1347, 145679, 14569, 1679, 169, 234579, 23459, 2379, 239, 246, 2467}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1045}\sqrt{9454}e^{12}, \frac{2}{1045}\sqrt{3749}e^{13} + \frac{2}{1045}\sqrt{22657}e^{45}$	$(\frac{104}{1045}, \frac{208}{1045}, -\frac{222}{1045}, -\frac{222}{1045}, \frac{104}{1045}, -\frac{83}{1045}, \frac{243}{1045}, \frac{312}{1045}, -\frac{118}{1045})$ $+\frac{12}{1045}\sqrt{1630}e^2 \otimes e_9 + \frac{326}{1045}e^5 \otimes e_4 + \frac{326}{1045}e^7 \otimes e_6 + \frac{6}{1045}\sqrt{5053}e^1 \otimes e_3$	{14689, 14789, 15689, 15789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1045}\sqrt{9454}e^{12}, \frac{2}{1045}\sqrt{3749}e^{13} + \frac{2}{1045}\sqrt{22657}e^{45}$	$(\frac{104}{1045}, \frac{208}{1045}, -\frac{222}{1045}, -\frac{222}{1045}, \frac{104}{1045}, -\frac{83}{1045}, \frac{243}{1045}, \frac{312}{1045}, -\frac{118}{1045})$ $+\frac{12}{1045}\sqrt{1630}e^2 \otimes e_9 - \frac{326}{1045}e^5 \otimes e_4 + \frac{326}{1045}e^7 \otimes e_6 + \frac{6}{1045}\sqrt{5053}e^1 \otimes e_3$	{14689, 14789, 15689, 15789, 3469, 3479, 3569, 3579}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13} + \frac{4}{111}\sqrt{51}e^{45}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{10}{37}, -\frac{2}{111}, -\frac{2}{111}, \frac{9}{37}, -\frac{7}{111}, -\frac{4}{111}, -\frac{4}{111})$ $+\frac{2}{111}\sqrt{663}e^3 \otimes e_8 + \frac{2}{37}\sqrt{85}e^2 \otimes e_9 + \frac{34}{111}e^6 \otimes e_7$	{123456, 123457, 1236, 1237, 14689, 14789, 24568, 24578, 268, 278, 3469, 3479}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{10}{111}\sqrt{17}e^{12}, \frac{2}{111}\sqrt{323}e^{13} + \frac{4}{111}\sqrt{51}e^{45}$	$(-\frac{34}{111}, \frac{10}{37}, \frac{10}{37}, -\frac{2}{111}, -\frac{2}{111}, \frac{9}{37}, -\frac{7}{111}, -\frac{4}{111}, -\frac{4}{111})$ $-\frac{2}{111}\sqrt{663}e^3 \otimes e_8 + \frac{2}{37}\sqrt{85}e^2 \otimes e_9 + \frac{34}{111}e^6 \otimes e_7$	{123456, 123457, 1236, 1237, 14689, 14789, 24568, 24578, 268, 278, 3469, 3479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{5}{313}\sqrt{762}e^{12}, \frac{4}{313}\sqrt{127}e^{13} + \frac{1}{313}\sqrt{8382}e^{45}$	$(-\frac{56}{313}, \frac{53}{313}, \frac{124}{313}, -\frac{6}{313}, \frac{74}{313}, -\frac{74}{313}, -\frac{53}{313}, -\frac{3}{313}, \frac{68}{313})$ $+\frac{1}{313}\sqrt{25654}e^2 \otimes e_6 + \frac{1}{313}\sqrt{26670}e^3 \otimes e_8 + \frac{4}{313}\sqrt{1270}e^5 \otimes e_7$	{12345, 1237, 146789, 15689, 2458, 278, 34679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{271}\sqrt{9174}e^{12}, \frac{1}{271}\sqrt{3058}e^{13} + \frac{1}{271}\sqrt{9174}e^{45}$	$(\frac{55}{271}, -\frac{84}{271}, \frac{13}{271}, \frac{77}{271}, -\frac{9}{271}, \frac{110}{271}, -\frac{62}{271}, -\frac{29}{271}, \frac{68}{313})$ $+\frac{2}{271}\sqrt{5977}e^4 \otimes e_7 + \frac{2}{271}\sqrt{5977}e^6 \otimes e_8 + \frac{5}{271}\sqrt{834}e^1 \otimes e_2$	{13458, 1378, 1489, 15789, 23489, 235789, 2458, 278}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1483}\sqrt{314878}e^{12}, \frac{1}{1483}\sqrt{196170}e^{13} + \frac{1}{1483}\sqrt{178062}e^{45}$	$(-\frac{376}{1483}, \frac{413}{1483}, \frac{286}{1483}, -\frac{45}{1483}, -\frac{45}{1483}, \frac{540}{1483}, -\frac{217}{1483}, \frac{37}{1483}, -\frac{90}{1483})$ $+\frac{1}{1483}\sqrt{351094}e^3 \otimes e_7 + \frac{4}{1483}\sqrt{25653}e^6 \otimes e_8 + \frac{6}{1483}\sqrt{16599}e^2 \otimes e_9$	{123456, 1236, 14789, 24578, 278, 3469}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{139}\sqrt{570}e^{12}, \frac{2}{139}\sqrt{190}e^{13} + \frac{2}{139}\sqrt{570}e^{45}$	$(\frac{11}{139}, -\frac{18}{139}, \frac{2}{139}, \frac{31}{139}, -\frac{18}{139}, \frac{51}{139}, -\frac{27}{139}, -\frac{7}{139}, \frac{13}{139})$ $+\frac{14}{139}\sqrt{19}e^4 \otimes e_8 + \frac{2}{139}\sqrt{741}e^1 \otimes e_7 + \frac{2}{139}\sqrt{741}e^6 \otimes e_9$	{123456, 1249, 1368, 1589, 235789, 2678, 3479, 4567}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{441}\sqrt{9454}e^{12}, \frac{1}{441}\sqrt{3749}e^{13} + \frac{1}{441}\sqrt{22657}e^{45}$	$(-\frac{25}{126}, \frac{104}{441}, \frac{19}{294}, \frac{52}{441}, -\frac{37}{147}, \frac{359}{882}, \frac{40}{441}, \frac{11}{294}, -\frac{59}{441})$ $+\frac{163}{441}e^4 \otimes e_5 + \frac{1}{147}\sqrt{5053}e^6 \otimes e_8 + \frac{2}{147}\sqrt{1630}e^2 \otimes e_9$	{14789, 1489, 15789, 1589, 34679, 3469, 35679, 3569}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3445}\sqrt{52202}e^{12}, \frac{6}{3445}\sqrt{42490}e^{13} + \frac{4}{3445}\sqrt{32171}e^{45}$	$(\frac{444}{3445}, -\frac{154}{689}, -\frac{392}{3445}, \frac{633}{3445}, -\frac{581}{3445}, \frac{888}{3445}, \frac{1266}{3445}, -\frac{326}{3445}, \frac{4}{265})$ $+\frac{1214}{3445}e^4 \otimes e_5 + \frac{2}{3445}\sqrt{559654}e^1 \otimes e_2 + \frac{2}{689}\sqrt{15782}e^6 \otimes e_8 + \frac{4}{3445}\sqrt{155999}e^7 \otimes e_9$	{1489, 1589, 23489, 23589}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{2}{719}\sqrt{10887}e^{12}, \frac{8}{719}\sqrt{2865}e^{13} + \frac{4}{719}\sqrt{2674}e^{45}$	$(\frac{197}{719}, -\frac{185}{719}, -\frac{171}{719}, \frac{13}{719}, \frac{13}{719}, \frac{408}{719}, \frac{69}{719}, \frac{12}{719}, \frac{26}{719})$ $+\frac{2}{719}\sqrt{59401}e^1 \otimes e_2 + \frac{2}{719}\sqrt{64749}e^6 \otimes e_9$	{13456, 134567, 136, 1367, 1479, 149, 23479, 2349, 2456, 24567, 26, 267}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{4}{225}\sqrt{781}e^{12}, \frac{2}{225}\sqrt{1562}e^{13} + \frac{4}{225}\sqrt{781}e^{45}$	$(-\frac{38}{225}, \frac{22}{45}, \frac{2}{75}, -\frac{16}{225}, -\frac{16}{225}, \frac{11}{25}, -\frac{43}{225}, \frac{8}{25}, -\frac{32}{225})$ $+\frac{142}{225}e^6 \otimes e_7 + \frac{2}{75}\sqrt{994}e^2 \otimes e_9$	{123456, 123457, 1236, 1237, 14689, 14789, 24568, 24578, 268, 278, 3469, 3479}
92:5	$0, 0, 0, 0, 0, 0, 0, \frac{3}{371}\sqrt{326}e^{12}, \frac{1}{371}\sqrt{978}e^{13} + \frac{1}{371}\sqrt{30970}e^{45}$	$(\frac{101}{371}, -\frac{62}{371}, \frac{27}{371}, \frac{64}{371}, \frac{64}{371}, -\frac{99}{371}, -\frac{99}{371}, \frac{39}{371}, \frac{128}{371})$ $+\frac{1}{371}\sqrt{27058}e^1 \otimes e_2 + \frac{1}{371}\sqrt{42054}e^4 \otimes e_6 + \frac{1}{371}\sqrt{42054}e^5 \otimes e_7$	{13458, 13678, 14789, 234789, 2458, 2678}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{2993}\sqrt{1586}e^{13} + \frac{6}{2993}\sqrt{7747}e^{24},$ $\frac{84}{2993}\sqrt{183}e^{12} + \frac{96}{2993}\sqrt{122}e^{35}$	$(-\frac{381}{2993}, \frac{15}{73}, \frac{513}{2993}, -\frac{483}{2993}, -\frac{279}{2993}, \frac{1332}{2993}, -\frac{585}{2993}, \frac{132}{2993}, \frac{234}{2993})$ $+\frac{6}{2993}\sqrt{49898}e^3 \otimes e_7 + \frac{6}{2993}\sqrt{51423}e^2 \otimes e_4 + \frac{6}{2993}\sqrt{67039}e^6 \otimes e_9$	{12356, 1349, 2579, 467}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310}e^{13} + \frac{2}{157}\sqrt{1155}e^{24},$ $\frac{1}{157}\sqrt{2310}e^{12} + \frac{2}{157}\sqrt{1155}e^{35}$	$(-\frac{3}{157}, \frac{55}{157}, \frac{55}{157}, -\frac{3}{157}, -\frac{3}{157}, -\frac{50}{157}, -\frac{50}{157}, \frac{52}{157}, \frac{52}{157})$ $+\frac{3}{157}\sqrt{1610}e^2 \otimes e_6 + \frac{3}{157}\sqrt{1610}e^3 \otimes e_7$	{12345, 1278, 1456789, 2389, 24579, 67}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{195}e^{13} + \frac{6}{31}\sqrt{26}e^{24}, \frac{1}{31}\sqrt{195}e^{12} + \frac{1}{31}\sqrt{273}e^{35}$	$(\frac{21}{62}, -\frac{4}{31}, \frac{9}{62}, \frac{19}{31}, \frac{2}{31}, -\frac{20}{31}, \frac{11}{62}, \frac{15}{31}, \frac{13}{62})$ $+\frac{3}{31}\sqrt{221}e^4 \otimes e_6$	{1236789, 123689, 124579, 12459, 134578, 13458, 16, 167, 2345, 23457, 2678, 268, 3679, 369, 45789, 4589}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{401}\sqrt{17255}e^{13} + \frac{1}{401}\sqrt{8323}e^{24},$ $\frac{14}{401}\sqrt{290}e^{12} + \frac{2}{401}\sqrt{4466}e^{35}$	$(-\frac{123}{802}, \frac{88}{401}, \frac{69}{802}, -\frac{115}{401}, -\frac{8}{401}, \frac{459}{802}, \frac{36}{401}, -\frac{27}{401}, \frac{53}{802})$ $+\frac{3}{401}\sqrt{8729}e^6 \otimes e_9 + \frac{49}{401}\sqrt{29}e^2 \otimes e_4$	{126, 1267, 14579, 1459, 2379, 239, 3456, 34567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{135}\sqrt{642}e^{13} + \frac{2}{405}\sqrt{2782}e^{24},$ $\frac{2}{135}\sqrt{642}e^{12} + \frac{2}{405}\sqrt{2782}e^{35}$	$(-\frac{26}{135}, \frac{136}{405}, \frac{136}{405}, -\frac{26}{135}, -\frac{26}{135}, \frac{137}{405}, -\frac{77}{405}, \frac{58}{405}, \frac{58}{405})$ $+\frac{214}{405}e^6 \otimes e_7 + \frac{2}{405}\sqrt{14338}e^2 \otimes e_4 + \frac{2}{405}\sqrt{14338}e^3 \otimes e_5$	{1236, 1237, 456, 457}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{69637}e^{13} + \frac{1}{1187}\sqrt{236598}e^{24},$ $\frac{1}{1187}\sqrt{199682}e^{12} + \frac{10}{1187}\sqrt{839}e^{35}$	$(-\frac{150}{1187}, \frac{354}{1187}, \frac{19}{1187}, -\frac{485}{1187}, \frac{185}{1187}, \frac{708}{1187}, \frac{135}{1187}, -\frac{131}{1187}, \frac{204}{1187})$ $+\frac{1}{1187}\sqrt{803762}e^2 \otimes e_4 + \frac{1}{1187}\sqrt{961494}e^6 \otimes e_8$	{12578, 1258, 14789, 1489, 235789, 23589, 3478, 348}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{43}\sqrt{119}e^{13} + \frac{1}{43}\sqrt{203}e^{24}, \frac{7}{43}\sqrt{3}e^{12} + \frac{2}{43}\sqrt{21}e^{35}$	$(\frac{6}{43}, -\frac{35}{172}, -\frac{7}{86}, \frac{45}{172}, \frac{3}{172}, \frac{33}{86}, -\frac{8}{43}, \frac{5}{86}, -\frac{11}{172})$ $+\frac{1}{43}\sqrt{329}e^1 \otimes e_7 + \frac{1}{43}\sqrt{357}e^6 \otimes e_8 + \frac{1}{43}\sqrt{413}e^4 \otimes e_9$	{123456, 1369, 23789, 34578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{3}{149}\sqrt{642e^{13}} + \frac{1}{149}\sqrt{2782e^{24}},$ $\frac{3}{149}\sqrt{642e^{12}} + \frac{1}{149}\sqrt{2782e^{35}}$	$(-\frac{39}{149}, \frac{68}{149}, \frac{68}{149}, -\frac{39}{149}, -\frac{39}{149}, \frac{15}{149}, \frac{15}{149}, \frac{29}{149}, \frac{29}{149})$ $+\frac{1}{149}\sqrt{14338e^2} \otimes e_4 + \frac{1}{149}\sqrt{14338e^3} \otimes e_5$	{123, 1236, 12367, 45, 456, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{515e^{13}} + \frac{1}{132}\sqrt{1030e^{24}},$ $\frac{1}{132}\sqrt{6386e^{12}} + \frac{1}{132}\sqrt{1030e^{35}}$	$(-\frac{5}{44}, \frac{109}{264}, \frac{7}{44}, -\frac{97}{264}, \frac{37}{132}, \frac{65}{132}, -\frac{19}{66}, \frac{2}{22}, \frac{79}{264})$ $+\frac{103}{132}e^6 \otimes e_7 + \frac{1}{132}\sqrt{13802e^2} \otimes e_4$	{1256, 1257, 1469, 1479, 23569, 23579, 346, 347}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{391}\sqrt{7293e^{13}} + \frac{2}{391}\sqrt{10582e^{24}},$ $\frac{1}{391}\sqrt{22451e^{12}} + \frac{1}{391}\sqrt{28457e^{35}}$	$(\frac{181}{782}, -\frac{32}{391}, -\frac{175}{782}, \frac{35}{391}, \frac{146}{391}, -\frac{108}{391}, \frac{75}{782}, \frac{3}{391}, \frac{117}{782})$ $+\frac{1}{391}\sqrt{41613e^4} \otimes e_6 + \frac{52}{391}\sqrt{22e^5} \otimes e_8$	{1356, 13567, 1478, 148, 34789, 3489, 5679, 569}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{515e^{13}} + \frac{2}{161}\sqrt{1030e^{24}},$ $\frac{2}{161}\sqrt{6386e^{12}} + \frac{2}{161}\sqrt{1030e^{35}}$	$(-\frac{30}{161}, \frac{109}{161}, \frac{6}{23}, -\frac{97}{161}, \frac{37}{161}, \frac{27}{161}, \frac{27}{161}, \frac{12}{161}, \frac{79}{161})$ $+\frac{2}{161}\sqrt{13802e^2} \otimes e_4$	{125, 1256, 12567, 14679, 1469, 149, 235679, 23569, 2359, 34, 346, 3467}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{8}{51}\sqrt{6e^{13}} + \frac{4}{51}\sqrt{21e^{24}}, \frac{4}{17}\sqrt{5e^{12}} + \frac{4}{51}\sqrt{21e^{35}}$	$(-\frac{2}{51}, \frac{2}{17}, \frac{2}{17}, -\frac{2}{51}, -\frac{2}{51}, \frac{28}{51}, -\frac{6}{17}, \frac{4}{51}, \frac{4}{51})$ $+\frac{4}{51}\sqrt{69e^2} \otimes e_7 + \frac{4}{51}\sqrt{69e^6} \otimes e_9$	{123568, 1246, 134789, 1579, 2349, 2589, 3567, 4678}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{13002e^{13}} + \frac{4}{823}\sqrt{6501e^{24}},$ $\frac{2}{823}\sqrt{4334e^{12}} + \frac{4}{823}\sqrt{6501e^{35}}$	$(\frac{34}{823}, \frac{154}{823}, -\frac{120}{823}, -\frac{240}{823}, \frac{308}{823}, \frac{275}{823}, \frac{119}{823}, -\frac{86}{823}, \frac{188}{823})$ $+\frac{2}{823}\sqrt{36642e^2} \otimes e_4 + \frac{2}{823}\sqrt{71314e^5} \otimes e_8 + \frac{394}{823}e^6 \otimes e_7$	{1468, 1478, 34689, 34789}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{27}{4061}\sqrt{1090e^{13}} + \frac{54}{4061}\sqrt{265e^{24}},$ $\frac{27}{4061}\sqrt{654e^{12}} + \frac{54}{4061}\sqrt{607e^{35}}$	$(\frac{81}{4061}, \frac{297}{4061}, -\frac{216}{4061}, -\frac{432}{4061}, \frac{594}{4061}, -\frac{945}{4061}, \frac{1107}{4061}, -\frac{135}{4061}, \frac{378}{4061})$ $+\frac{108}{4061}\sqrt{101e^7} \otimes e_9 + \frac{27}{4061}\sqrt{3018e^5} \otimes e_8 + \frac{27}{4061}\sqrt{402e^2} \otimes e_4 + \frac{54}{4061}\sqrt{622e^3} \otimes e_6$	{14678, 3489}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{169}\sqrt{2747e^{13}} + \frac{4}{169}\sqrt{1005e^{24}},$ $\frac{2}{169}\sqrt{2010e^{12}} + \frac{4}{169}\sqrt{1005e^{35}}$	$(\frac{38}{169}, -\frac{63}{169}, \frac{8}{169}, \frac{109}{169}, -\frac{33}{169}, \frac{27}{169}, \frac{27}{169}, \frac{46}{169}, -\frac{25}{169})$ $+\frac{1}{169}\sqrt{9514e^4} \otimes e_9$	{124, 1246, 12467, 15679, 1569, 159, 256789, 25689, 2589, 4678, 468, 48}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{179}\sqrt{130e^{13}} + \frac{30}{179}e^{24}, \frac{2}{179}\sqrt{1245e^{12}} + \frac{1}{179}\sqrt{2730e^{35}}$	$(\frac{2}{179}, \frac{29}{179}, -\frac{4}{179}, -\frac{31}{179}, \frac{35}{179}, \frac{58}{179}, -\frac{58}{179}, -\frac{2}{179}, \frac{31}{179})$ $+\frac{1}{179}\sqrt{6090e^2} \otimes e_4 + \frac{1}{179}\sqrt{8430e^1} \otimes e_7 + \frac{3}{179}\sqrt{610e^6} \otimes e_8$	{1236, 134569, 2679, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{12}{523}\sqrt{357e^{13}} + \frac{12}{523}\sqrt{141e^{24}},$ $\frac{72}{523}\sqrt{2e^{12}} + \frac{12}{523}\sqrt{141e^{35}}$	$(-\frac{50}{523}, \frac{118}{523}, \frac{70}{523}, -\frac{98}{523}, -\frac{2}{523}, \frac{236}{523}, -\frac{146}{523}, \frac{20}{523}, \frac{68}{523})$ $+\frac{12}{523}\sqrt{573e^3} \otimes e_7 + \frac{12}{523}\sqrt{573e^6} \otimes e_8 + \frac{144}{523}\sqrt{2e^2} \otimes e_4$	{125789, 1478, 2358, 3489}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{3}{56}\sqrt{23e^{13}} + \frac{9}{112}\sqrt{14e^{24}}, \frac{3}{112}\sqrt{70e^{12}} + \frac{3}{28}\sqrt{7e^{35}}$	$(\frac{27}{224}, -\frac{15}{224}, \frac{3}{112}, \frac{3}{112}, \frac{3}{112}, -\frac{51}{224}, -\frac{15}{112}, \frac{33}{224}, \frac{3}{56})$ $+\frac{3}{112}\sqrt{134e^2} \otimes e_6 + \frac{3}{112}\sqrt{190e^4} \otimes e_9 + \frac{3}{56}\sqrt{23e^5} \otimes e_7$	{1247, 1569, 2589, 4678}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{3281}\sqrt{697e^{13}} + \frac{24}{3281}\sqrt{2993e^{24}},$ $\frac{6}{3281}\sqrt{8446e^{12}} + \frac{54}{3281}\sqrt{287e^{35}}$	$(\frac{473}{3281}, \frac{138}{3281}, -\frac{300}{3281}, \frac{35}{3281}, \frac{911}{3281}, -\frac{600}{3281}, -\frac{703}{3281}, \frac{173}{3281}, \frac{611}{3281})$ $+\frac{12}{3281}\sqrt{12587e^5} \otimes e_8 + \frac{30}{3281}\sqrt{1394e^2} \otimes e_6 + \frac{6}{3281}\sqrt{39073e^4} \otimes e_7$	{123789, 12459, 2345, 278}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{157}\sqrt{2310e^{13}} + \frac{2}{157}\sqrt{1155e^{24}},$ $\frac{1}{157}\sqrt{2310e^{12}} + \frac{2}{157}\sqrt{1155e^{35}}$	$(-\frac{3}{157}, -\frac{14}{157}, -\frac{14}{157}, -\frac{3}{157}, -\frac{3}{157}, \frac{88}{157}, \frac{88}{157}, -\frac{17}{157}, -\frac{17}{157})$ $+\frac{3}{157}\sqrt{1610e^6} \otimes e_8 + \frac{3}{157}\sqrt{1610e^7} \otimes e_9$	{1234567, 1278, 14589, 2389, 24569, 67}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{118}\sqrt{2747e^{13}} + \frac{1}{59}\sqrt{1005e^{24}},$ $\frac{1}{118}\sqrt{2010e^{12}} + \frac{1}{59}\sqrt{1005e^{35}}$	$(\frac{19}{118}, -\frac{63}{236}, \frac{2}{59}, \frac{109}{236}, -\frac{33}{118}, \frac{47}{118}, -\frac{10}{59}, \frac{23}{118}, -\frac{25}{236})$ $+\frac{1}{118}\sqrt{9514e^4} \otimes e_9 + \frac{67}{118}e^6 \otimes e_7$	{1246, 1247, 1569, 1579, 25689, 25789, 468, 478}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{103}\sqrt{299e^{13}} + \frac{2}{103}\sqrt{442e^{24}}, \frac{4}{103}\sqrt{78e^{12}} + \frac{4}{103}\sqrt{65e^{35}}$	$(\frac{8}{103}, -\frac{7}{103}, \frac{12}{103}, \frac{27}{103}, -\frac{11}{103}, -\frac{33}{103}, \frac{9}{103}, \frac{20}{103}, \frac{1}{103})$ $+\frac{2}{103}\sqrt{546e^2} \otimes e_6 + \frac{52}{103}e^4 \otimes e_9$	{124, 1247, 15679, 1569, 25789, 2589, 4678, 468}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{7}{157}\sqrt{10e^{13}} + \frac{1}{157}\sqrt{3990e^{24}}, \frac{7}{157}\sqrt{10e^{12}} + \frac{1}{157}\sqrt{3990e^{35}}$	$(\frac{29}{157}, -\frac{35}{157}, -\frac{35}{157}, \frac{29}{157}, \frac{29}{157}, \frac{15}{157}, \frac{15}{157}, -\frac{6}{157}, -\frac{6}{157})$ $+\frac{1}{157}\sqrt{4970e^4} \otimes e_9 + \frac{1}{157}\sqrt{4970e^5} \otimes e_8$	{1236789, 123689, 12389, 2345, 23456, 234567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{341}\sqrt{515e^{13}} + \frac{2}{341}\sqrt{1765e^{24}},$ $\frac{2}{341}\sqrt{335e^{12}} + \frac{4}{341}\sqrt{335e^{35}}$	$(\frac{37}{341}, -\frac{30}{341}, -\frac{30}{341}, \frac{37}{341}, \frac{37}{341}, -\frac{60}{341}, \frac{25}{341}, \frac{7}{341}, \frac{7}{341})$ $+\frac{10}{341}\sqrt{51e^2} \otimes e_6 + \frac{2}{341}\sqrt{1945e^4} \otimes e_9 + \frac{8}{341}\sqrt{95e^5} \otimes e_8$	{15679, 1569, 4678, 468}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{905}\sqrt{1751}e^{13} + \frac{18}{905}\sqrt{17}e^{24},$ $\frac{6}{905}\sqrt{3298}e^{12} + \frac{12}{905}\sqrt{799}e^{35}$	$(-\frac{27}{905}, \frac{129}{905}, -\frac{21}{905}, -\frac{177}{905}, \frac{123}{905}, \frac{408}{905}, -\frac{183}{905}, -\frac{48}{905}, \frac{102}{905})$ $+ \frac{12}{905}\sqrt{1462}e^6 \otimes e_9 + \frac{6}{181}\sqrt{170}e^2 \otimes e_4 + \frac{6}{905}\sqrt{4199}e^5 \otimes e_7$	{1267, 1459, 2379, 3456}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{696}{3725}e^{13} + \frac{87}{3725}\sqrt{26}e^{24}, \frac{29}{3725}\sqrt{1822}e^{12} + \frac{58}{3725}\sqrt{105}e^{35}$	$(\frac{58}{3725}, \frac{319}{3725}, -\frac{261}{3725}, -\frac{522}{3725}, \frac{638}{3725}, -\frac{783}{3725}, \frac{1218}{3725}, -\frac{203}{3725}, \frac{377}{3725})$ $+ \frac{29}{3725}\sqrt{1222}e^5 \otimes e_8 + \frac{58}{3725}\sqrt{438}e^2 \otimes e_4 + \frac{58}{3725}\sqrt{510}e^1 \otimes e_6 + \frac{87}{3725}\sqrt{218}e^7 \otimes e_9$	{12357, 2569}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{13002}e^{13} + \frac{2}{313}\sqrt{6501}e^{24},$ $\frac{1}{313}\sqrt{4334}e^{12} + \frac{2}{313}\sqrt{6501}e^{35}$	$(\frac{17}{313}, \frac{77}{313}, -\frac{60}{313}, -\frac{120}{313}, \frac{154}{313}, \frac{39}{313}, \frac{39}{313}, -\frac{43}{313}, \frac{94}{313})$ $+ \frac{1}{313}\sqrt{36642}e^2 \otimes e_4 + \frac{1}{313}\sqrt{71314}e^5 \otimes e_8$	{14678, 1468, 148, 346789, 34689, 3489}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{53}\sqrt{210}e^{13} + \frac{2}{159}\sqrt{595}e^{24}, \frac{1}{159}\sqrt{1610}e^{12} + \frac{2}{159}\sqrt{770}e^{35}$	$(\frac{3}{53}, \frac{25}{159}, -\frac{5}{159}, -\frac{7}{53}, \frac{13}{53}, -\frac{10}{159}, -\frac{40}{159}, \frac{4}{159}, \frac{34}{159})$ $+ \frac{1}{159}\sqrt{1610}e^2 \otimes e_6 + \frac{1}{159}\sqrt{3710}e^3 \otimes e_7 + \frac{70}{159}e^5 \otimes e_8$	{1356, 14678, 34689, 5679}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{823}\sqrt{18105}e^{13} + \frac{4}{823}\sqrt{1955}e^{24},$ $\frac{10}{823}\sqrt{323}e^{12} + \frac{34}{823}\sqrt{55}e^{35}$	$(\frac{89}{823}, \frac{66}{823}, -\frac{52}{823}, -\frac{29}{823}, \frac{207}{823}, -\frac{81}{823}, -\frac{222}{823}, \frac{37}{823}, \frac{155}{823})$ $+ \frac{10}{823}\sqrt{969}e^3 \otimes e_7 + \frac{24}{823}\sqrt{85}e^1 \otimes e_6 + \frac{2}{823}\sqrt{28135}e^5 \otimes e_8$	{135, 1478, 34689, 5679}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{987}e^{13} + \frac{2}{67}\sqrt{94}e^{24}, \frac{1}{67}\sqrt{987}e^{12} + \frac{3}{67}\sqrt{47}e^{35}$	$(\frac{41}{134}, -\frac{7}{67}, \frac{3}{134}, \frac{29}{67}, \frac{12}{67}, -\frac{53}{134}, -\frac{18}{67}, \frac{22}{67}, \frac{27}{134})$ $+ \frac{1}{67}\sqrt{2397}e^4 \otimes e_7 + \frac{2}{67}\sqrt{799}e^1 \otimes e_6$	{1234, 12578, 13579, 1489, 2356789, 2469, 3468, 567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1219}\sqrt{3306}e^{13} + \frac{2}{1219}\sqrt{110751}e^{24},$ $\frac{1}{1219}\sqrt{38570}e^{12} + \frac{1}{1219}\sqrt{274398}e^{35}$	$(\frac{122}{1219}, \frac{227}{1219}, -\frac{162}{1219}, -\frac{267}{1219}, \frac{511}{1219}, -\frac{324}{1219}, \frac{135}{1219}, -\frac{40}{1219}, \frac{349}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^5 \otimes e_8 + \frac{3}{1219}\sqrt{56202}e^2 \otimes e_6$	{1356, 13567, 14678, 1468, 346789, 34689, 5679, 569}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{32}{329}\sqrt{23}e^{13} + \frac{4}{329}\sqrt{322}e^{24},$ $\frac{2}{329}\sqrt{322}e^{12} + \frac{2}{329}\sqrt{1495}e^{35}$	$(-\frac{65}{329}, \frac{73}{329}, \frac{73}{329}, -\frac{65}{329}, -\frac{65}{329}, \frac{146}{329}, \frac{25}{329}, \frac{8}{329}, \frac{8}{329})$ $+ \frac{22}{329}\sqrt{69}e^6 \otimes e_8 + \frac{2}{329}\sqrt{4922}e^2 \otimes e_4 + \frac{2}{329}\sqrt{7705}e^3 \otimes e_5$	{12578, 1258, 3478, 348}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{8}{463}\sqrt{249}e^{13} + \frac{1}{463}\sqrt{66234}e^{24},$ $\frac{8}{463}\sqrt{249}e^{12} + \frac{1}{463}\sqrt{2490}e^{35}$	$(-\frac{15}{463}, \frac{91}{463}, \frac{22}{463}, -\frac{84}{463}, \frac{54}{463}, \frac{256}{463}, -\frac{158}{463}, \frac{7}{463}, \frac{76}{463})$ $+ \frac{3}{463}\sqrt{11454}e^2 \otimes e_7 + \frac{3}{463}\sqrt{11454}e^6 \otimes e_8$	{12346, 1258, 135679, 14789, 23589, 2469, 3478, 567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{291}e^{13} + \frac{1}{275}\sqrt{5529}e^{24},$ $\frac{8}{275}\sqrt{97}e^{12} + \frac{2}{275}\sqrt{2910}e^{35}$	$(-\frac{13}{550}, \frac{28}{275}, -\frac{69}{550}, -\frac{69}{275}, \frac{56}{275}, \frac{237}{550}, \frac{24}{275}, -\frac{41}{275}, \frac{43}{550})$ $+ \frac{1}{275}\sqrt{12513}e^2 \otimes e_4 + \frac{2}{275}\sqrt{4462}e^5 \otimes e_8 + \frac{2}{275}\sqrt{2037}e^6 \otimes e_9$	{134789, 13489, 4678, 468}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{3}{662}\sqrt{1157}e^{13} + \frac{1}{662}\sqrt{39783}e^{24},$ $\frac{1}{662}\sqrt{103062}e^{12} + \frac{3}{331}\sqrt{534}e^{35}$	$(\frac{91}{1324}, \frac{159}{662}, \frac{11}{1324}, -\frac{54}{331}, \frac{199}{662}, -\frac{443}{1324}, -\frac{34}{331}, \frac{51}{662}, \frac{409}{1324})$ $+ \frac{1}{331}\sqrt{30705}e^2 \otimes e_4 + \frac{1}{662}\sqrt{143646}e^1 \otimes e_6 + \frac{3}{662}\sqrt{6853}e^5 \otimes e_7$	{1237, 13459, 2679, 456}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1187}\sqrt{69637}e^{13} + \frac{10}{1187}\sqrt{839}e^{24},$ $\frac{1}{1187}\sqrt{199682}e^{12} + \frac{1}{1187}\sqrt{236598}e^{35}$	$(-\frac{150}{1187}, \frac{545}{1187}, \frac{401}{1187}, -\frac{294}{1187}, -\frac{6}{1187}, -\frac{438}{1187}, \frac{135}{1187}, \frac{251}{1187}, \frac{395}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^2 \otimes e_4 + \frac{1}{1187}\sqrt{961494}e^3 \otimes e_6$	{1235, 12357, 13479, 1349, 25679, 2569, 46, 467}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{731}e^{13} + \frac{2}{67}\sqrt{258}e^{24}, \frac{1}{67}\sqrt{645}e^{12} + \frac{3}{67}\sqrt{129}e^{35}$	$(\frac{17}{134}, -\frac{12}{67}, \frac{5}{134}, \frac{23}{67}, -\frac{6}{67}, \frac{79}{134}, -\frac{20}{67}, \frac{11}{67}, -\frac{7}{134})$ $+ \frac{1}{67}\sqrt{2365}e^4 \otimes e_7 + \frac{8}{67}\sqrt{43}e^6 \otimes e_9$	{1235678, 1246, 13489, 1579, 2349, 25789, 3567, 468}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{33}e^{13} + \frac{2}{41}\sqrt{66}e^{24}, \frac{2}{41}\sqrt{33}e^{12} + \frac{2}{41}\sqrt{66}e^{35}$	$(\frac{6}{41}, \frac{5}{41}, \frac{5}{41}, \frac{6}{41}, \frac{6}{41}, 1, -\frac{25}{41}, \frac{11}{41}, \frac{11}{41})$ $+ \frac{66}{41}e^6 \otimes e_7$	{123456, 123457, 1268, 1278, 145689, 145789, 23689, 23789, 24569, 24579, 6, 7}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{28}{499}\sqrt{195}e^{13} + \frac{2}{499}\sqrt{38766}e^{24},$ $\frac{2}{499}\sqrt{18291}e^{12} + \frac{4}{499}\sqrt{273}e^{35}$	$(\frac{12}{499}, \frac{10}{499}, -\frac{59}{499}, -\frac{57}{499}, \frac{81}{499}, 1, \frac{85}{499}, -\frac{47}{499}, \frac{22}{499})$ $+ \frac{6}{499}\sqrt{12558}e^6 \otimes e_8$	{1234679, 123469, 125789, 12589, 1356, 13567, 1478, 148, 23578, 2358, 246, 2467, 34789, 3489, 5679, 569}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{203}e^{24}, \frac{1}{43}\sqrt{119}e^{12} + \frac{2}{43}\sqrt{21}e^{35}$	$(\frac{6}{43}, \frac{5}{43}, -\frac{9}{86}, -\frac{7}{86}, \frac{31}{86}, -\frac{8}{43}, -\frac{9}{43}, \frac{3}{86}, \frac{11}{43})$ $+ \frac{1}{43}\sqrt{329}e^1 \otimes e_6 + \frac{1}{43}\sqrt{357}e^2 \otimes e_7 + \frac{1}{43}\sqrt{413}e^5 \otimes e_8$	{12345, 128, 23689, 24569}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{14}{181}e^{13} + \frac{7}{181}\sqrt{102}e^{24}, \frac{7}{181}\sqrt{30}e^{12} + \frac{28}{181}\sqrt{6}e^{35}$	$(\frac{28}{181}, -\frac{21}{181}, -\frac{35}{181}, \frac{14}{181}, \frac{42}{181}, \frac{56}{181}, -\frac{35}{181}, -\frac{7}{181}, \frac{7}{181})$ $+ \frac{35}{181}\sqrt{6}e^5 \otimes e_8 + \frac{70}{181}e^4 \otimes e_7 + \frac{7}{181}\sqrt{82}e^6 \otimes e_9$	{13567, 1468, 3489, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{12}{593}\sqrt{330}e^{13} + \frac{2}{593}\sqrt{330}e^{24}, \frac{220}{593}e^{12} + \frac{2}{593}\sqrt{330}e^{35}$	$(\frac{49}{593}, \frac{106}{593}, -\frac{57}{593}, -\frac{114}{593}, \frac{212}{593}, -\frac{171}{593}, \frac{48}{593}, -\frac{8}{593}, \frac{155}{593})$ $+ \frac{110}{593}\sqrt{6}e^2 \otimes e_4 + \frac{2}{593}\sqrt{17710}e^5 \otimes e_8 + \frac{2}{593}\sqrt{24090}e^1 \otimes e_6$	{134579, 13459, 456, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{8}{59}e^{13} + \frac{4}{59}\sqrt{26}e^{24}, \frac{4}{59}\sqrt{10}e^{12} + \frac{4}{59}\sqrt{26}e^{35}$	$(\frac{2}{59}, \frac{4}{59}, -\frac{6}{59}, -\frac{8}{59}, \frac{12}{59}, \frac{22}{59}, -\frac{12}{59}, -\frac{4}{59}, \frac{6}{59})$ $+ \frac{4}{59}\sqrt{34}e^2 \otimes e_7 + \frac{4}{59}\sqrt{34}e^6 \otimes e_9 + \frac{8}{59}\sqrt{10}e^5 \otimes e_8$	{134789, 1579, 3567, 4678}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{405}\sqrt{5459}e^{13} + \frac{2}{405}\sqrt{14214}e^{24},$ $\frac{4}{405}\sqrt{1133}e^{12} + \frac{8}{405}\sqrt{103}e^{35}$	$(\frac{16}{135}, \frac{17}{135}, \frac{76}{405}, \frac{73}{405}, \frac{23}{405}, -\frac{31}{81}, \frac{133}{405}, \frac{124}{405}, \frac{11}{45})$ $+ \frac{2}{405}\sqrt{19982}e^2 \otimes e_6 + \frac{4}{405}\sqrt{4429}e^4 \otimes e_7$	{123578, 124, 134689, 15679, 2349, 25789, 3567, 468}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{7}{43}\sqrt{3}e^{13} + \frac{1}{43}\sqrt{322}e^{24}, \frac{1}{43}\sqrt{119}e^{12} + \frac{1}{43}\sqrt{203}e^{35}$	$(\frac{41}{172}, -\frac{7}{86}, -\frac{35}{172}, \frac{5}{43}, \frac{31}{86}, -\frac{15}{172}, -\frac{9}{43}, \frac{3}{86}, \frac{27}{172})$ $+ \frac{1}{43}\sqrt{210}e^1 \otimes e_6 + \frac{1}{43}\sqrt{357}e^4 \otimes e_7 + \frac{2}{43}\sqrt{133}e^5 \otimes e_8$	{1357, 148, 34689, 5679}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{7}{76}\sqrt{15}e^{13} + \frac{7}{76}\sqrt{38}e^{24}, \frac{7}{76}\sqrt{15}e^{12} + \frac{7}{76}\sqrt{38}e^{35}$	$(\frac{23}{76}, -\frac{7}{152}, -\frac{7}{152}, \frac{23}{76}, \frac{23}{76}, -\frac{13}{38}, -\frac{13}{38}, \frac{39}{152}, \frac{39}{152})$ $+ \frac{7}{38}\sqrt{17}e^4 \otimes e_6 + \frac{7}{38}\sqrt{17}e^5 \otimes e_7$	{1236789, 12459, 167, 2345, 2678, 4589}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{3}{40}\sqrt{123}e^{13} + \frac{1}{40}\sqrt{574}e^{24}, \frac{3}{40}\sqrt{123}e^{12} + \frac{1}{40}\sqrt{574}e^{35}$	$(\frac{13}{40}, -\frac{1}{80}, -\frac{1}{80}, \frac{13}{40}, \frac{13}{40}, -\frac{7}{10}, \frac{3}{20}, \frac{5}{16}, \frac{5}{16})$ $+ \frac{1}{20}\sqrt{697}e^1 \otimes e_6$	{123, 1237, 124578, 12458, 1789, 189, 23456789, 2345689, 2679, 269, 456, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{3569}\sqrt{10570}e^{13} + \frac{6}{3569}\sqrt{21593}e^{24},$ $\frac{4}{3569}\sqrt{145866}e^{12} + \frac{4}{3569}\sqrt{8607}e^{35}$	$(-\frac{85}{3569}, \frac{449}{3569}, \frac{77}{3569}, -\frac{457}{3569}, \frac{287}{3569}, \frac{1270}{3569}, -\frac{991}{3569}, -\frac{8}{3569}, \frac{364}{3569})$ $+ \frac{2}{3569}\sqrt{496941}e^2 \otimes e_4 + \frac{2}{3569}\sqrt{544506}e^1 \otimes e_7 + \frac{6}{3569}\sqrt{53303}e^6 \otimes e_9$	{1236, 13459, 279, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1219}\sqrt{38570}e^{13} + \frac{2}{1219}\sqrt{110751}e^{24},$ $\frac{4}{1219}\sqrt{3306}e^{12} + \frac{1}{1219}\sqrt{274398}e^{35}$	$(\frac{122}{1219}, -\frac{315}{1219}, -\frac{79}{1219}, \frac{358}{1219}, -\frac{114}{1219}, \frac{594}{1219}, \frac{135}{1219}, \frac{43}{1219}, -\frac{193}{1219})$ $+ \frac{25}{1219}\sqrt{1102}e^4 \otimes e_9 + \frac{3}{1219}\sqrt{56202}e^6 \otimes e_8$	{1246, 12467, 15679, 1569, 25789, 2589, 478, 48}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{521}\sqrt{1185}e^{13} + \frac{1}{521}\sqrt{39342}e^{24},$ $\frac{1}{521}\sqrt{94326}e^{12} + \frac{1}{521}\sqrt{39342}e^{35}$	$(\frac{14}{521}, \frac{142}{521}, \frac{33}{521}, -\frac{95}{521}, \frac{123}{521}, \frac{223}{521}, \frac{40}{521}, \frac{47}{521}, \frac{156}{521})$ $+ \frac{1}{521}\sqrt{124662}e^1 \otimes e_6 + \frac{2}{521}\sqrt{25833}e^2 \otimes e_4$	{123, 1237, 134579, 13459, 2679, 269, 456, 4567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{311}\sqrt{665}e^{13} + \frac{19}{311}\sqrt{7}e^{24}, \frac{14}{311}\sqrt{95}e^{12} + \frac{4}{311}\sqrt{399}e^{35}$	$(-\frac{83}{622}, \frac{48}{311}, \frac{9}{622}, -\frac{85}{311}, \frac{2}{311}, \frac{96}{311}, \frac{279}{622}, -\frac{37}{311}, \frac{13}{622})$ $+ \frac{14}{311}\sqrt{95}e^6 \otimes e_8 + \frac{1}{311}\sqrt{30191}e^7 \otimes e_9 + \frac{7}{311}\sqrt{551}e^2 \otimes e_4$	{123578, 13489, 2589, 478}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{729}\sqrt{8138}e^{13} + \frac{1}{729}\sqrt{3130}e^{24},$ $\frac{1}{729}\sqrt{4382}e^{12} + \frac{1}{729}\sqrt{110802}e^{35}$	$(\frac{5}{243}, \frac{215}{729}, \frac{34}{243}, -\frac{98}{729}, \frac{128}{729}, -\frac{211}{729}, -\frac{185}{729}, \frac{13}{81}, \frac{230}{729})$ $+ \frac{1}{243}\sqrt{10642}e^2 \otimes e_4 + \frac{1}{729}\sqrt{169646}e^3 \otimes e_6 + \frac{7}{729}\sqrt{3130}e^5 \otimes e_7$	{125689, 14678, 2358, 34789}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{67}\sqrt{731}e^{13} + \frac{3}{67}\sqrt{129}e^{24}, \frac{1}{67}\sqrt{645}e^{12} + \frac{2}{67}\sqrt{258}e^{35}$	$(\frac{17}{134}, \frac{37}{134}, \frac{4}{67}, -\frac{6}{67}, \frac{23}{67}, -\frac{49}{134}, -\frac{20}{67}, \frac{25}{67}, \frac{27}{67})$ $+ \frac{1}{67}\sqrt{2365}e^5 \otimes e_7 + \frac{8}{67}\sqrt{43}e^2 \otimes e_6$	{12358, 1247, 1346789, 1569, 23479, 2589, 356, 4678}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{22}{329}\sqrt{23}e^{13} + \frac{22}{329}\sqrt{3}e^{24}, \frac{110}{329}\sqrt{2}e^{12} + \frac{44}{329}\sqrt{13}e^{35}$	$(\frac{9}{329}, \frac{129}{329}, \frac{1}{47}, -\frac{113}{329}, \frac{131}{329}, -\frac{111}{329}, \frac{36}{329}, \frac{16}{329}, \frac{138}{329})$ $+ \frac{22}{329}\sqrt{146}e^2 \otimes e_4 + \frac{22}{47}\sqrt{3}e^5 \otimes e_6$	{123578, 12358, 1346789, 134689, 25789, 2589, 4678, 468}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{39}{509}\sqrt{14}e^{13} + \frac{26}{509}\sqrt{5}e^{24}, \frac{39}{509}\sqrt{14}e^{12} + \frac{26}{509}\sqrt{5}e^{35}$	$(-\frac{91}{509}, \frac{78}{509}, \frac{78}{509}, -\frac{91}{509}, -\frac{91}{509}, \frac{156}{509}, \frac{156}{509}, -\frac{13}{509}, -\frac{13}{509})$ $+ \frac{143}{509}\sqrt{2}e^6 \otimes e_8 + \frac{143}{509}\sqrt{2}e^7 \otimes e_9 + \frac{26}{509}\sqrt{58}e^2 \otimes e_4 + \frac{26}{509}\sqrt{58}e^3 \otimes e_5$	{14589, 2389}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{21}{139}\sqrt{5}e^{13} + \frac{2}{139}\sqrt{455}e^{24},$ $\frac{1}{139}\sqrt{2030}e^{12} + \frac{1}{139}\sqrt{3115}e^{35}$	$(\frac{19}{278}, \frac{18}{139}, -\frac{17}{278}, -\frac{17}{139}, \frac{36}{139}, -\frac{87}{278}, \frac{12}{139}, \frac{1}{278}, \frac{55}{278})$ $+ \frac{1}{139}\sqrt{210}e^2 \otimes e_4 + \frac{1}{139}\sqrt{3885}e^3 \otimes e_6 + \frac{1}{139}\sqrt{4795}e^5 \otimes e_8$	{14678, 1468, 34789, 3489}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{4}{405}\sqrt{1133}e^{13} + \frac{2}{405}\sqrt{14214}e^{24},$ $\frac{2}{405}\sqrt{5459}e^{12} + \frac{8}{405}\sqrt{103}e^{35}$	$(\frac{16}{135}, -\frac{46}{405}, -\frac{7}{135}, \frac{73}{405}, \frac{23}{405}, \frac{233}{405}, -\frac{133}{405}, \frac{1}{15}, \frac{2}{405})$ $+ \frac{2}{405}\sqrt{19982}e^6 \otimes e_8 + \frac{4}{405}\sqrt{4429}e^4 \otimes e_7$	{123469, 125789, 13567, 148, 23578, 246, 3489, 5679}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{14}{349}\sqrt{10}e^{13} + \frac{2}{349}\sqrt{3990}e^{24},$ $\frac{14}{349}\sqrt{10}e^{12} + \frac{2}{349}\sqrt{3990}e^{35}$	$(\frac{58}{349}, -\frac{70}{349}, -\frac{70}{349}, \frac{58}{349}, \frac{58}{349}, \frac{65}{349}, -\frac{5}{349}, -\frac{12}{349}, -\frac{12}{349})$ $+ \frac{2}{349}\sqrt{4970}e^4 \otimes e_9 + \frac{2}{349}\sqrt{4970}e^5 \otimes e_8 + \frac{70}{349}e^6 \otimes e_7$	{123689, 123789, 23456, 23457}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{6}{3053}\sqrt{11067}e^{13} + \frac{6}{3053}\sqrt{30473}e^{24},$ $\frac{6}{3053}\sqrt{14291}e^{12} + \frac{12}{3053}\sqrt{3503}e^{35}$	$(\frac{3}{71}, -\frac{210}{3053}, \frac{138}{3053}, \frac{477}{3053}, -\frac{219}{3053}, \frac{825}{3053}, -\frac{768}{3053}, \frac{267}{3053}, -\frac{81}{3053})$ $+ \frac{24}{3053}\sqrt{1147}e^6 \otimes e_8 + \frac{6}{3053}\sqrt{31031}e^2 \otimes e_7 + \frac{6}{3053}\sqrt{38037}e^4 \otimes e_9$	{1246, 15679, 2589, 478}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1315}\sqrt{142923}e^{13} + \frac{1}{1315}\sqrt{57706}e^{24},$ $\frac{1}{1315}\sqrt{189222}e^{12} + \frac{12}{1315}\sqrt{4026}e^{35}$	$(\frac{178}{1315}, -\frac{58}{1315}, -\frac{153}{1315}, \frac{83}{1315}, \frac{273}{1315}, \frac{696}{1315}, -\frac{493}{1315}, \frac{5}{263}, \frac{24}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_7 + \frac{2}{1315}\sqrt{191235}e^6 \otimes e_8$	{12346, 1258, 13569, 1489, 235789, 24679, 3478, 567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{867}\sqrt{12045}e^{13} + \frac{2}{289}\sqrt{2409}e^{24},$ $\frac{2}{867}\sqrt{4818}e^{12} + \frac{4}{867}\sqrt{4818}e^{35}$	$(\frac{1}{867}, \frac{11}{51}, -\frac{65}{867}, -\frac{251}{867}, \frac{253}{867}, \frac{22}{51}, -\frac{185}{867}, -\frac{64}{867}, \frac{188}{867})$ $+ \frac{2}{867}\sqrt{50370}e^2 \otimes e_4 + \frac{2}{867}\sqrt{57597}e^5 \otimes e_7 + \frac{4}{867}\sqrt{16206}e^6 \otimes e_8$	{1278, 14589, 23789, 3458}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1315}\sqrt{189222}e^{13} + \frac{1}{1315}\sqrt{57706}e^{24},$ $\frac{2}{1315}\sqrt{142923}e^{12} + \frac{7}{1315}\sqrt{4026}e^{35}$	$(\frac{178}{1315}, \frac{227}{1315}, \frac{132}{1315}, \frac{83}{1315}, \frac{273}{1315}, -\frac{493}{1315}, -\frac{444}{1315}, \frac{62}{263}, \frac{81}{263})$ $+ \frac{1}{1315}\sqrt{830698}e^1 \otimes e_6 + \frac{2}{1315}\sqrt{191235}e^2 \otimes e_7$	{1234, 1258, 13579, 14789, 235689, 2469, 34678, 567}
92:6	$0, 0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{18291}e^{13} + \frac{2}{499}\sqrt{38766}e^{24},$ $\frac{28}{499}\sqrt{195}e^{12} + \frac{4}{499}\sqrt{273}e^{35}$	$(\frac{12}{499}, \frac{217}{499}, \frac{148}{499}, -\frac{57}{499}, \frac{81}{499}, -\frac{329}{499}, \frac{85}{499}, \frac{160}{499}, \frac{229}{499})$ $+ \frac{6}{499}\sqrt{12558}e^2 \otimes e_6$	{123578, 12358, 124, 1247, 1346789, 134689, 15679, 1569, 23479, 2349, 25789, 2589, 356, 3567, 4678, 468}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{2}{41}\sqrt{6}e^{34} + \frac{2}{41}\sqrt{6}e^{56}$	$(\frac{7}{41}, -\frac{11}{41}, \frac{11}{41}, -\frac{7}{41}, \frac{11}{41}, -\frac{7}{41}, \frac{14}{41}, -\frac{4}{41}, \frac{4}{41})$ $+ \frac{18}{41}e^1 \otimes e_2 + \frac{18}{41}e^3 \otimes e_4 + \frac{18}{41}e^5 \otimes e_6 + \frac{2}{41}\sqrt{102}e^7 \otimes e_8$	{13589, 13689, 14689, 23589, 23689, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{138}e^{12}, \frac{1}{23}\sqrt{66}e^{34} + \frac{1}{23}\sqrt{66}e^{56}$	$(\frac{10}{69}, \frac{7}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{17}{69}, \frac{31}{69}, -\frac{2}{23})$ $+ \frac{5}{23}\sqrt{6}e^1 \otimes e_7 + \frac{6}{23}\sqrt{6}e^2 \otimes e_9$	{12, 1234, 123456, 13589, 2345678, 23478, 278, 3579}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{313}\sqrt{6501}e^{12}, \frac{1}{313}\sqrt{13002}e^{34} + \frac{1}{313}\sqrt{21670}e^{56}$	$(-\frac{27}{313}, -\frac{27}{313}, \frac{121}{313}, \frac{6}{313}, \frac{143}{313}, -\frac{16}{313}, -\frac{76}{313}, -\frac{54}{313}, \frac{127}{313})$ $+ \frac{1}{313}\sqrt{45310}e^3 \otimes e_7 + \frac{1}{313}\sqrt{62646}e^5 \otimes e_8$	{123456, 12359, 124579, 12567, 1348, 13689, 146789, 178, 3456, 359, 4579, 567}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{23}\sqrt{138}e^{12}, \frac{1}{23}\sqrt{66}e^{34} + \frac{1}{23}\sqrt{66}e^{56}$	$(\frac{7}{23}, -\frac{5}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, \frac{11}{23}, \frac{2}{23}, -\frac{2}{23})$ $+ \frac{5}{23}\sqrt{6}e^7 \otimes e_8 + \frac{6}{23}\sqrt{6}e^1 \otimes e_9$	{1234567, 12347, 127, 134568, 1348, 18, 23589, 3579}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{12}{839}\sqrt{854}e^{12}, \frac{8}{839}\sqrt{3477}e^{34} + \frac{2}{839}\sqrt{13359}e^{56}$	$(-\frac{83}{839}, -\frac{83}{839}, \frac{116}{839}, \frac{200}{839}, \frac{158}{839}, \frac{158}{839}, -\frac{250}{839}, -\frac{166}{839}, \frac{316}{839})$ $+ \frac{2}{839}\sqrt{61305}e^3 \otimes e_7 + \frac{2}{839}\sqrt{76677}e^4 \otimes e_8$	{12345, 1245679, 12479, 135689, 1389, 1578, 345, 45679, 479}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{140}\sqrt{1634}e^{12}, \frac{1}{140}\sqrt{602}e^{34} + \frac{1}{70}\sqrt{645}e^{56}$	$(\frac{27}{280}, -\frac{59}{280}, \frac{51}{280}, -\frac{1}{140}, \frac{27}{140}, -\frac{19}{140}, \frac{51}{140}, -\frac{4}{35}, \frac{2}{35})$ $+ \frac{1}{35}\sqrt{215}e^7 \otimes e_9 + \frac{1}{70}\sqrt{989}e^5 \otimes e_8 + \frac{43}{140}e^1 \otimes e_2 + \frac{43}{140}e^3 \otimes e_4$	{13689, 14689, 23689, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{34} + \frac{1}{16}\sqrt{6}e^{56}$	$(-\frac{1}{16}, -\frac{1}{16}, \frac{11}{32}, -\frac{7}{32}, \frac{11}{32}, -\frac{7}{32}, \frac{7}{16}, -\frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^7 \otimes e_8 + \frac{9}{16}e^3 \otimes e_4 - \frac{7}{16}e^5 \otimes e_6$	{123579, 123679, 124679, 13589, 13689, 14689, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{14}{55}e^{12}, \frac{7}{55}\sqrt{3}e^{34} + \frac{7}{55}\sqrt{3}e^{56}$	$(\frac{4}{55}, \frac{4}{55}, \frac{29}{55}, -\frac{4}{11}, \frac{29}{55}, -\frac{4}{11}, \frac{6}{55}, \frac{8}{55}, \frac{9}{55})$ $+ \frac{49}{55}e^3 \otimes e_4 - \frac{49}{55}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 124679, 12469, 135789, 13589, 136789, 13689, 146789, 14689, 3579, 359, 3679, 369, 4679, 469}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{28}{159}e^{12}, \frac{14}{159}\sqrt{3}e^{34} + \frac{14}{159}\sqrt{3}e^{56}$	$(\frac{19}{53}, -\frac{41}{159}, \frac{58}{159}, -\frac{40}{159}, \frac{58}{159}, -\frac{40}{159}, \frac{4}{53}, \frac{16}{159}, \frac{6}{53})$ $+ \frac{98}{159}e^1 \otimes e_2 + \frac{98}{159}e^3 \otimes e_4 + \frac{98}{159}e^5 \otimes e_6$	{135789, 13589, 136789, 13689, 146789, 14689, 235789, 23589, 236789, 23689, 246789, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{937}\sqrt{6765}e^{12}, \frac{4}{937}\sqrt{3649}e^{34} + \frac{8}{937}\sqrt{2337}e^{56}$	$(\frac{330}{937}, -\frac{75}{937}, \frac{165}{937}, -\frac{163}{937}, \frac{140}{937}, -\frac{138}{937}, -\frac{188}{937}, \frac{255}{937}, \frac{2}{937})$ $+ \frac{328}{937}e^3 \otimes e_4 + \frac{36}{937}\sqrt{205}e^1 \otimes e_9 + \frac{4}{937}\sqrt{11398}e^5 \otimes e_7$	{23589, 236789, 24589, 246789, 359, 3679, 459, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{42}e^{12}, \frac{2}{23}\sqrt{6}e^{34} + \frac{2}{23}\sqrt{6}e^{56}$	$(\frac{28}{69}, -\frac{2}{23}, \frac{11}{23}, -\frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{26}{69}, \frac{22}{69}, \frac{4}{23})$ $+ \frac{18}{23}e^3 \otimes e_4 + \frac{2}{23}\sqrt{102}e^1 \otimes e_7$	{12359, 12459, 13589, 14589, 235789, 245789, 3579, 4579}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{138}e^{12}, \frac{2}{55}\sqrt{66}e^{34} + \frac{2}{55}\sqrt{66}e^{56}$	$(\frac{4}{33}, \frac{14}{55}, -\frac{2}{55}, -\frac{2}{55}, \frac{7}{55}, -\frac{1}{5}, -\frac{34}{165}, \frac{62}{165}, -\frac{4}{55})$ $+ \frac{12}{55}\sqrt{6}e^2 \otimes e_9 + \frac{18}{55}e^5 \otimes e_6 + \frac{2}{11}\sqrt{6}e^1 \otimes e_7$	{13589, 13689, 3579, 3679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:7	$0, 0, 0, 0, 0, 0, \frac{1}{2193}\sqrt{308482}e^{12}, \frac{2}{2193}\sqrt{16458}e^{34} + \frac{2}{731}\sqrt{6119}e^{56}$	$(-\frac{80}{2193}, \frac{259}{2193}, \frac{8}{731}, \frac{8}{731}, \frac{130}{731}, -\frac{114}{731}, -\frac{97}{731}, \frac{179}{2193}, \frac{16}{731})$ $+ \frac{1}{2193}\sqrt{198762}e^1 \otimes e_7 + \frac{2}{2193}\sqrt{77226}e^5 \otimes e_8 + \frac{6}{731}\sqrt{1055}e^2 \otimes e_9$	{123456, 1256, 13689, 23478, 278, 3579}
92:7	$0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{2}{811}\sqrt{55158}e^{34} + \frac{4}{811}\sqrt{2219}e^{56}$	$(\frac{377}{811}, -\frac{257}{811}, \frac{320}{811}, -\frac{84}{811}, \frac{118}{811}, \frac{118}{811}, -\frac{314}{811}, \frac{120}{811}, \frac{236}{811})$ $+ \frac{4}{811}\sqrt{32017}e^3 \otimes e_7 + \frac{634}{811}e^1 \otimes e_2$	{13458, 135689, 1389, 1456789, 14789, 1578, 23458, 235689, 2389, 2456789, 24789, 2578}
92:7	$0, 0, 0, 0, 0, 0, \frac{14}{55}e^{12}, \frac{7}{55}\sqrt{3}e^{34} + \frac{7}{55}\sqrt{3}e^{56}$	$(\frac{4}{55}, \frac{4}{55}, \frac{29}{55}, -\frac{4}{11}, \frac{29}{55}, -\frac{4}{11}, \frac{6}{55}, \frac{8}{55}, \frac{9}{55})$ $+ \frac{49}{55}e^3 \otimes e_4 + \frac{49}{55}e^5 \otimes e_6$	{123579, 12359, 123679, 12369, 124679, 12469, 135789, 13589, 136789, 13689, 146789, 14689, 3579, 359, 3679, 369, 4679, 469}
92:7	$0, 0, 0, 0, 0, 0, \frac{12}{2101}\sqrt{1679}e^{12}, \frac{4}{2101}\sqrt{2409}e^{34} + \frac{1}{2101}\sqrt{293898}e^{56}$	$(\frac{383}{2101}, -\frac{2}{11}, \frac{82}{2101}, \frac{82}{2101}, -\frac{56}{191}, \frac{20}{191}, -\frac{25}{191}, \frac{1}{2101}, \frac{164}{2101})$ $+ \frac{1}{2101}\sqrt{194910}e^5 \otimes e_7 + \frac{1}{2101}\sqrt{315798}e^6 \otimes e_8 + \frac{3}{2101}\sqrt{37230}e^1 \otimes e_9$	{123456, 1256, 13478, 178, 23589, 3679}
92:7	$0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{138}e^{12}, \frac{2}{55}\sqrt{66}e^{34} + \frac{2}{55}\sqrt{66}e^{56}$	$(\frac{14}{55}, -\frac{2}{11}, \frac{7}{55}, -\frac{1}{5}, -\frac{2}{55}, -\frac{2}{55}, \frac{2}{5}, \frac{4}{55}, -\frac{4}{55})$ $+ \frac{12}{55}\sqrt{6}e^1 \otimes e_9 + \frac{18}{55}e^3 \otimes e_4 + \frac{2}{11}\sqrt{6}e^7 \otimes e_8$	{23589, 24589, 3579, 4579}
92:7	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{42}e^{12}, \frac{1}{7}\sqrt{6}e^{34} + \frac{1}{7}\sqrt{6}e^{56}$	$(\frac{2}{3}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{13}{21}, \frac{11}{21}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{102}e^1 \otimes e_7$	{12, 1234, 123456, 12359, 134568, 1348, 13589, 18, 2345678, 23478, 235789, 278, 34567, 347, 3579, 7}
92:7	$0, 0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{14}{61}\sqrt{3}e^{34} + \frac{14}{61}\sqrt{3}e^{56}$	$(\frac{8}{61}, \frac{8}{61}, \frac{58}{61}, -\frac{40}{61}, \frac{9}{61}, \frac{9}{61}, \frac{12}{61}, \frac{16}{61}, \frac{18}{61})$ $+ \frac{98}{61}e^3 \otimes e_4$	{123579, 12359, 124579, 12459, 135789, 13589, 145789, 14589, 3579, 359, 4579, 459}
92:7	$0, 0, 0, 0, 0, 0, \frac{8}{851}\sqrt{1065}e^{12}, \frac{4}{851}\sqrt{2130}e^{34} + \frac{20}{851}\sqrt{142}e^{56}$	$(\frac{189}{851}, -\frac{162}{851}, \frac{89}{851}, -\frac{42}{851}, \frac{169}{851}, \frac{122}{851}, -\frac{53}{851}, \frac{27}{851}, \frac{47}{851})$ $+ \frac{2}{851}\sqrt{20661}e^5 \otimes e_8 + \frac{2}{851}\sqrt{9301}e^3 \otimes e_7 + \frac{6}{851}\sqrt{2769}e^1 \otimes e_9$	{123456, 12567, 1348, 178, 23689, 246789, 359, 4579}
92:7	$0, 0, 0, 0, 0, 0, \frac{4}{773}\sqrt{6765}e^{12}, \frac{8}{773}\sqrt{2337}e^{34} + \frac{4}{773}\sqrt{3649}e^{56}$	$(\frac{330}{773}, -\frac{75}{773}, \frac{140}{773}, -\frac{138}{773}, \frac{773}{773}, \frac{1}{773}, -\frac{188}{773}, \frac{255}{773}, \frac{2}{773})$ $+ \frac{36}{773}\sqrt{205}e^1 \otimes e_9 + \frac{4}{773}\sqrt{11398}e^3 \otimes e_7$	{1234, 123456, 12567, 127, 134568, 1348, 15678, 178, 23589, 245789, 359, 4579}
92:7	$0, 0, 0, 0, 0, 0, \frac{28}{61}e^{12}, \frac{14}{61}\sqrt{3}e^{34} + \frac{14}{61}\sqrt{3}e^{56}$	$(\frac{57}{61}, -\frac{41}{61}, \frac{9}{61}, \frac{9}{61}, \frac{9}{61}, \frac{12}{61}, \frac{16}{61}, \frac{18}{61})$ $+ \frac{98}{61}e^1 \otimes e_2$	{1345678, 134568, 13478, 1348, 135789, 13589, 178, 18, 2345678, 234568, 23478, 2348, 235789, 23589, 278, 28}
92:7	$0, 0, 0, 0, 0, 0, \frac{6}{43}e^{12}, \frac{12}{43}e^{34} + \frac{12}{43}e^{56}$	$(\frac{11}{43}, -\frac{7}{43}, \frac{8}{43}, -\frac{10}{43}, \frac{8}{43}, -\frac{10}{43}, \frac{16}{43}, \frac{4}{43}, -\frac{2}{43})$ $+ \frac{18}{43}e^1 \otimes e_2 + \frac{18}{43}e^3 \otimes e_4 - \frac{18}{43}e^5 \otimes e_6 + \frac{6}{43}\sqrt{13}e^7 \otimes e_9$	{13589, 13689, 14689, 23589, 23689, 24689}
92:7	$0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{583}e^{12}, \frac{1}{119}\sqrt{1749}e^{34} + \frac{1}{119}\sqrt{1749}e^{56}$	$(\frac{44}{119}, -\frac{10}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{12}{119}, \frac{2}{119}, -\frac{9}{119})$ $+ \frac{53}{119}e^3 \otimes e_4 - \frac{53}{119}e^5 \otimes e_6 + \frac{6}{119}\sqrt{159}e^1 \otimes e_9$	{235789, 23589, 236789, 23689, 246789, 24689, 3579, 359, 3679, 369, 4679, 469}
92:7	$0, 0, 0, 0, 0, 0, \frac{2}{237}\sqrt{1634}e^{12}, \frac{4}{237}\sqrt{645}e^{34} + \frac{2}{237}\sqrt{602}e^{56}$	$(\frac{9}{79}, -\frac{59}{237}, \frac{18}{79}, -\frac{38}{237}, \frac{8}{237}, \frac{8}{237}, \frac{34}{237}, -\frac{32}{237}, \frac{16}{237})$ $+ \frac{4}{237}\sqrt{989}e^3 \otimes e_8 + \frac{86}{237}e^1 \otimes e_2 + \frac{8}{237}\sqrt{215}e^7 \otimes e_9$	{14589, 15678, 178, 24589, 25678, 278}
92:7	$0, 0, 0, 0, 0, 0, \frac{6}{511}\sqrt{854}e^{12}, \frac{1}{511}\sqrt{13359}e^{34} + \frac{4}{511}\sqrt{3477}e^{56}$	$(\frac{50}{511}, -\frac{19}{73}, \frac{79}{511}, \frac{79}{511}, \frac{58}{511}, \frac{100}{511}, -\frac{125}{511}, -\frac{83}{511}, \frac{158}{511})$ $+ \frac{183}{511}e^1 \otimes e_2 + \frac{1}{511}\sqrt{61305}e^5 \otimes e_7 + \frac{1}{511}\sqrt{76677}e^6 \otimes e_8$	{134589, 1378, 1589, 234589, 2378, 2589}
92:7	$0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{9510}e^{12}, \frac{1}{247}\sqrt{55158}e^{34} + \frac{2}{247}\sqrt{2219}e^{56}$	$(\frac{30}{247}, \frac{30}{247}, \frac{160}{247}, -\frac{42}{247}, \frac{59}{247}, \frac{59}{247}, -\frac{157}{247}, \frac{60}{247}, \frac{118}{247})$ $+ \frac{2}{247}\sqrt{32017}e^3 \otimes e_7$	{12345, 123569, 1239, 1245679, 12479, 1257, 13458, 135689, 1389, 1456789, 14789, 1578, 345, 3569, 39, 45679, 479, 57}
92:7	$0, 0, 0, 0, 0, 0, \frac{6}{511}\sqrt{854}e^{12}, \frac{4}{511}\sqrt{3477}e^{34} + \frac{1}{511}\sqrt{13359}e^{56}$	$(-\frac{83}{1022}, -\frac{83}{1022}, \frac{58}{511}, \frac{100}{511}, \frac{341}{1022}, -\frac{25}{1022}, -\frac{125}{511}, -\frac{83}{511}, \frac{158}{511})$ $+ \frac{183}{511}e^5 \otimes e_6 + \frac{1}{511}\sqrt{61305}e^3 \otimes e_7 + \frac{1}{511}\sqrt{76677}e^4 \otimes e_8$	{12345, 12346, 1578, 1678, 345, 346}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{42}e^{12}, \frac{2}{41}\sqrt{6}e^{34} + \frac{2}{41}\sqrt{6}e^{56}$	$(\frac{7}{41}, -\frac{11}{41}, \frac{11}{41}, -\frac{7}{41}, \frac{11}{41}, -\frac{7}{41}, \frac{14}{41}, -\frac{4}{41}, \frac{4}{41})$ $+ \frac{18}{41}e^1 \otimes e_2 + \frac{18}{41}e^3 \otimes e_4 - \frac{18}{41}e^5 \otimes e_6 + \frac{2}{41}\sqrt{102}e^7 \otimes e_8$	{13589, 13689, 14689, 23589, 23689, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{34} + \frac{1}{16}\sqrt{6}e^{56}$	$(\frac{7}{32}, -\frac{11}{32}, \frac{11}{32}, -\frac{7}{32}, \frac{1}{16}, \frac{1}{16}, \frac{7}{16}, -\frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^7 \otimes e_8 + \frac{9}{16}e^1 \otimes e_2 + \frac{9}{16}e^3 \otimes e_4$	{13589, 14589, 23589, 24589}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{6}{43}e^{12}, \frac{12}{43}e^{34} + \frac{12}{43}e^{56}$	$(\frac{11}{43}, -\frac{7}{43}, \frac{8}{43}, -\frac{10}{43}, \frac{8}{43}, -\frac{10}{43}, \frac{16}{43}, \frac{4}{43}, -\frac{2}{43})$ $+ \frac{18}{43}e^1 \otimes e_2 + \frac{18}{43}e^3 \otimes e_4 + \frac{18}{43}e^5 \otimes e_6 + \frac{6}{43}\sqrt{13}e^7 \otimes e_9$	{13589, 13689, 14689, 23589, 23689, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{119}\sqrt{583}e^{12}, \frac{1}{119}\sqrt{1749}e^{34} + \frac{1}{119}\sqrt{1749}e^{56}$	$(\frac{44}{119}, -\frac{10}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{22}{119}, -\frac{31}{119}, \frac{12}{119}, \frac{2}{7}, -\frac{9}{119})$ $+ \frac{53}{119}e^3 \otimes e_4 + \frac{53}{119}e^5 \otimes e_6 + \frac{6}{119}\sqrt{159}e^1 \otimes e_9$	{235789, 23589, 236789, 23689, 246789, 24689, 3579, 359, 3679, 369, 4679, 469}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{7}{51}\sqrt{34}e^{12}, \frac{14}{17}e^{34} + \frac{7}{51}\sqrt{6}e^{56}$	$(-\frac{8}{51}, -\frac{8}{51}, \frac{11}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{4}{17}, \frac{3}{17}, -\frac{16}{51}, \frac{8}{17})$ $+ \frac{14}{51}\sqrt{21}e^3 \otimes e_8$	{12345, 123457, 1235679, 123569, 12379, 1239, 1456789, 145689, 14789, 1489, 1578, 158, 345, 3457, 35679, 3569, 379, 39}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{34} + \frac{1}{16}\sqrt{6}e^{56}$	$(-\frac{1}{16}, -\frac{1}{16}, \frac{11}{32}, -\frac{7}{32}, \frac{11}{32}, -\frac{7}{32}, \frac{7}{16}, -\frac{1}{8}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^7 \otimes e_8 + \frac{9}{16}e^3 \otimes e_4 + \frac{9}{16}e^5 \otimes e_6$	{123579, 123679, 124679, 13589, 13689, 14689, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{28}{159}e^{12}, \frac{14}{159}\sqrt{3}e^{34} + \frac{14}{159}\sqrt{3}e^{56}$	$(\frac{19}{53}, -\frac{41}{159}, \frac{58}{159}, -\frac{40}{159}, \frac{58}{159}, -\frac{40}{159}, \frac{4}{53}, \frac{16}{53}, \frac{6}{53})$ $+ \frac{98}{159}e^1 \otimes e_2 + \frac{98}{159}e^3 \otimes e_4 - \frac{98}{159}e^5 \otimes e_6$	{135789, 13589, 136789, 13689, 146789, 14689, 235789, 23589, 236789, 23689, 246789, 24689}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{861}\sqrt{6601}e^{12}, \frac{4}{287}\sqrt{667}e^{34} + \frac{4}{861}\sqrt{1794}e^{56}$	$(\frac{208}{861}, -\frac{197}{861}, \frac{65}{287}, -\frac{57}{287}, \frac{4}{287}, \frac{4}{287}, \frac{30}{287}, \frac{11}{861}, \frac{8}{287})$ $+ \frac{12}{287}\sqrt{115}e^1 \otimes e_9 + \frac{4}{861}\sqrt{8418}e^3 \otimes e_8$	{1234, 123456, 1234567, 12347, 15678, 1568, 178, 18, 245789, 24589, 3579, 359}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{564}\sqrt{9510}e^{12}, \frac{1}{282}\sqrt{2219}e^{34} + \frac{1}{564}\sqrt{55158}e^{56}$	$(\frac{377}{1128}, -\frac{257}{1128}, \frac{145}{376}, -\frac{199}{1128}, \frac{40}{141}, -\frac{7}{94}, -\frac{157}{564}, \frac{5}{47}, \frac{59}{282})$ $+ \frac{1}{282}\sqrt{32017}e^5 \otimes e_7 + \frac{317}{564}e^1 \otimes e_2 + \frac{317}{564}e^3 \otimes e_4$	{13568, 1378, 14568, 1478, 23568, 2378, 24568, 2478}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{583}e^{12}, \frac{1}{66}\sqrt{1749}e^{34} + \frac{1}{66}\sqrt{1749}e^{56}$	$(\frac{2}{3}, -\frac{5}{33}, -\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, \frac{2}{11}, \frac{17}{33}, -\frac{3}{22})$ $+ \frac{1}{11}\sqrt{159}e^1 \otimes e_9$	{12, 1234, 123456, 1234567, 12347, 127, 1345678, 134568, 13478, 1348, 178, 18, 235789, 23589, 3579, 359}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{34} + \frac{1}{16}\sqrt{6}e^{56}$	$(\frac{7}{24}, -\frac{1}{16}, \frac{11}{32}, -\frac{7}{32}, \frac{11}{32}, -\frac{7}{32}, -\frac{13}{48}, \frac{11}{48}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^1 \otimes e_7 + \frac{9}{16}e^3 \otimes e_4 + \frac{9}{16}e^5 \otimes e_6$	{12359, 12369, 12469, 13589, 13689, 14689, 235789, 236789, 246789, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{6}{25}e^{12}, \frac{12}{25}e^{34} + \frac{12}{25}e^{56}$	$(\frac{2}{25}, \frac{2}{25}, \frac{8}{25}, -\frac{2}{5}, -\frac{1}{25}, -\frac{1}{25}, \frac{16}{25}, \frac{4}{25}, -\frac{2}{25})$ $+ \frac{18}{25}e^3 \otimes e_4 + \frac{6}{25}\sqrt{13}e^7 \otimes e_9$	{12359, 12459, 13589, 14589, 359, 459}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{42}e^{12}, \frac{1}{7}\sqrt{6}e^{34} + \frac{1}{7}\sqrt{6}e^{56}$	$(-\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{2}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{102}e^7 \otimes e_8$	{1234567, 12347, 123579, 127, 134568, 1348, 13589, 18, 34567, 347, 3579, 7}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{7}{100}\sqrt{34}e^{12}, \frac{7}{100}\sqrt{6}e^{34} + \frac{21}{50}e^{56}$	$(\frac{33}{200}, -\frac{13}{40}, \frac{73}{200}, -\frac{8}{8}, \frac{33}{100}, -\frac{9}{100}, \frac{9}{100}, -\frac{4}{25}, \frac{6}{25})$ $+ \frac{49}{100}e^1 \otimes e_2 + \frac{49}{100}e^3 \otimes e_4 + \frac{7}{50}\sqrt{21}e^5 \otimes e_8$	{1378, 138, 1478, 148, 2378, 238, 2478, 248}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{138}e^{12}, \frac{1}{32}\sqrt{66}e^{34} + \frac{1}{32}\sqrt{66}e^{56}$	$(\frac{7}{32}, -\frac{5}{32}, \frac{7}{64}, -\frac{11}{64}, \frac{7}{64}, -\frac{11}{64}, \frac{11}{32}, \frac{1}{16}, -\frac{1}{16})$ $+ \frac{3}{16}\sqrt{6}e^1 \otimes e_9 + \frac{5}{32}\sqrt{6}e^7 \otimes e_8 + \frac{9}{32}e^3 \otimes e_4 - \frac{9}{32}e^5 \otimes e_6$	{23589, 23689, 24689, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{185}\sqrt{583}e^{12}, \frac{2}{185}\sqrt{1749}e^{34} + \frac{2}{185}\sqrt{1749}e^{56}$	$(\frac{88}{185}, -\frac{4}{37}, \frac{44}{185}, -\frac{62}{185}, -\frac{9}{185}, -\frac{9}{185}, \frac{24}{185}, \frac{68}{185}, -\frac{18}{185})$ $+ \frac{106}{185}e^3 \otimes e_4 + \frac{12}{185}\sqrt{159}e^1 \otimes e_9$	{235789, 23589, 245789, 24589, 3579, 359, 4579, 459}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{42}e^{12}, \frac{2}{23}\sqrt{6}e^{34} + \frac{2}{23}\sqrt{6}e^{56}$	$(-\frac{2}{23}, -\frac{2}{23}, \frac{11}{23}, -\frac{7}{23}, \frac{2}{23}, \frac{2}{23}, -\frac{4}{23}, \frac{4}{23})$ $+ \frac{18}{23}e^3 \otimes e_4 + \frac{2}{23}\sqrt{102}e^7 \otimes e_8$	{123579, 124579, 13589, 14589, 3579, 4579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{237}\sqrt{1634}e^{12}, \frac{2}{237}\sqrt{602}e^{34} + \frac{4}{237}\sqrt{645}e^{56}$	$(-\frac{16}{237}, -\frac{16}{237}, \frac{17}{79}, -\frac{35}{237}, \frac{18}{79}, -\frac{38}{237}, \frac{34}{79}, -\frac{32}{237}, \frac{16}{237})$ $+ \frac{4}{237}\sqrt{989}e^5 \otimes e_8 + \frac{86}{237}e^3 \otimes e_4 + \frac{8}{237}\sqrt{215}e^7 \otimes e_9$	{12359, 12459, 13689, 14689, 359, 459}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{6}{25}e^{12}, \frac{12}{25}e^{34} + \frac{12}{25}e^{56}$	$(\frac{11}{25}, -\frac{7}{25}, -\frac{1}{25}, -\frac{1}{25}, -\frac{1}{25}, -\frac{1}{25}, \frac{16}{25}, \frac{4}{25}, -\frac{2}{25})$ $+ \frac{18}{25}e^1 \otimes e_2 + \frac{6}{25}\sqrt{13}e^7 \otimes e_9$	{1345678, 13478, 13589, 178, 2345678, 23478, 23589, 278}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{14}{55}e^{12}, \frac{7}{55}\sqrt{3}e^{34} + \frac{7}{55}\sqrt{3}e^{56}$	$(\frac{57}{110}, -\frac{41}{110}, \frac{29}{55}, -\frac{4}{11}, \frac{9}{110}, \frac{9}{110}, \frac{6}{55}, \frac{8}{55}, \frac{9}{55})$ $+ \frac{49}{55}e^1 \otimes e_2 + \frac{49}{55}e^3 \otimes e_4$	{135789, 13589, 145789, 14589, 235789, 23589, 245789, 24589}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{811}\sqrt{9510}e^{12}, \frac{4}{811}\sqrt{2219}e^{34} + \frac{2}{811}\sqrt{55158}e^{56}$	$(\frac{60}{811}, \frac{60}{811}, \frac{435}{811}, -\frac{199}{811}, \frac{320}{811}, -\frac{84}{811}, -\frac{314}{811}, \frac{120}{811}, \frac{236}{811})$ $+ \frac{4}{811}\sqrt{32017}e^5 \otimes e_7 + \frac{634}{811}e^3 \otimes e_4$	{12356, 1237, 12456, 1247, 13568, 1378, 14568, 1478, 356, 37, 456, 47}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{34}e^{12}, \frac{84}{151}e^{34} + \frac{14}{151}\sqrt{6}e^{56}$	$(\frac{33}{151}, -\frac{65}{151}, \frac{66}{151}, -\frac{18}{151}, \frac{24}{151}, \frac{24}{151}, \frac{18}{151}, -\frac{32}{151}, \frac{48}{151})$ $+ \frac{28}{151}\sqrt{21}e^3 \otimes e_8 + \frac{98}{151}e^1 \otimes e_2$	{1456789, 145689, 14789, 1489, 1578, 158, 2456789, 245689, 24789, 2489, 2578, 258}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{32}\sqrt{138}e^{12}, \frac{1}{32}\sqrt{66}e^{34} + \frac{1}{32}\sqrt{66}e^{56}$	$(\frac{7}{32}, -\frac{5}{32}, \frac{7}{64}, -\frac{11}{64}, \frac{7}{64}, -\frac{11}{64}, \frac{11}{16}, \frac{1}{16}, -\frac{1}{16})$ $+ \frac{3}{16}\sqrt{6}e^1 \otimes e_9 + \frac{5}{32}\sqrt{6}e^7 \otimes e_8 + \frac{9}{32}e^3 \otimes e_4 + \frac{9}{32}e^5 \otimes e_6$	{23589, 23689, 24689, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{6}{17}e^{34} + \frac{6}{17}e^{56}$	$(\frac{1}{17}, \frac{1}{17}, \frac{4}{17}, -\frac{5}{17}, \frac{4}{17}, -\frac{5}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{1}{17})$ $+ \frac{3}{17}\sqrt{13}e^7 \otimes e_9 + \frac{9}{17}e^3 \otimes e_4 - \frac{9}{17}e^5 \otimes e_6$	{12359, 12369, 12469, 13589, 13689, 14689, 359, 369, 469}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1634}e^{12}, \frac{2}{97}\sqrt{645}e^{34} + \frac{1}{97}\sqrt{602}e^{56}$	$(-\frac{8}{97}, -\frac{8}{97}, \frac{27}{97}, -\frac{19}{97}, \frac{4}{97}, \frac{4}{97}, \frac{51}{97}, -\frac{16}{97}, \frac{8}{97})$ $+ \frac{2}{97}\sqrt{989}e^3 \otimes e_8 + \frac{4}{97}\sqrt{215}e^7 \otimes e_9$	{1234567, 12347, 12359, 14589, 15678, 178, 34567, 347, 359}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{103}\sqrt{133}e^{12}, \frac{2}{103}\sqrt{57}e^{34} + \frac{6}{103}\sqrt{38}e^{56}$	$(\frac{14}{103}, -\frac{19}{103}, \frac{31}{103}, -\frac{7}{103}, \frac{33}{103}, -\frac{9}{103}, -\frac{24}{103}, -\frac{5}{103}, \frac{24}{103})$ $+ \frac{2}{103}\sqrt{627}e^1 \otimes e_7 + \frac{2}{103}\sqrt{798}e^5 \otimes e_8 + \frac{38}{103}e^3 \otimes e_4$	{12356, 12456, 138, 148, 2378, 2478, 3567, 4567}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{2}{23}\sqrt{42}e^{12}, \frac{2}{23}\sqrt{6}e^{34} + \frac{2}{23}\sqrt{6}e^{56}$	$(\frac{7}{23}, -\frac{11}{23}, \frac{2}{23}, \frac{2}{23}, \frac{2}{23}, \frac{2}{23}, \frac{14}{23}, -\frac{4}{23}, \frac{4}{23})$ $+ \frac{18}{23}e^1 \otimes e_2 + \frac{2}{23}\sqrt{102}e^7 \otimes e_8$	{134568, 1348, 13589, 18, 234568, 2348, 23589, 28}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{6}{17}e^{34} + \frac{6}{17}e^{56}$	$(\frac{1}{17}, \frac{1}{17}, \frac{4}{17}, -\frac{5}{17}, \frac{4}{17}, -\frac{5}{17}, \frac{8}{17}, \frac{2}{17}, -\frac{1}{17})$ $+ \frac{3}{17}\sqrt{13}e^7 \otimes e_9 + \frac{9}{17}e^3 \otimes e_4 + \frac{9}{17}e^5 \otimes e_6$	{12359, 12369, 12469, 13589, 13689, 14689, 359, 369, 469}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{3}{17}e^{12}, \frac{6}{17}e^{34} + \frac{6}{17}e^{56}$	$(\frac{11}{34}, -\frac{7}{34}, \frac{4}{17}, -\frac{5}{17}, -\frac{1}{34}, -\frac{1}{34}, \frac{8}{17}, \frac{2}{17}, -\frac{1}{17})$ $+ \frac{3}{17}\sqrt{13}e^7 \otimes e_9 + \frac{9}{17}e^1 \otimes e_2 + \frac{9}{17}e^3 \otimes e_4$	{13589, 14589, 23589, 24589}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{42}e^{12}, \frac{1}{16}\sqrt{6}e^{34} + \frac{1}{16}\sqrt{6}e^{56}$	$(\frac{7}{24}, -\frac{1}{16}, \frac{11}{32}, -\frac{7}{32}, \frac{11}{32}, -\frac{7}{32}, -\frac{13}{48}, \frac{11}{48}, \frac{1}{8})$ $+ \frac{1}{16}\sqrt{102}e^1 \otimes e_7 + \frac{9}{16}e^3 \otimes e_4 - \frac{9}{16}e^5 \otimes e_6$	{12359, 12369, 12469, 13589, 13689, 14689, 235789, 236789, 246789, 3579, 3679, 4679}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{133}e^{12}, \frac{1}{14}\sqrt{38}e^{34} + \frac{1}{42}\sqrt{57}e^{56}$	$(\frac{1}{6}, -\frac{19}{84}, \frac{11}{28}, -\frac{3}{28}, \frac{1}{7}, \frac{1}{7}, -\frac{2}{7}, -\frac{5}{7}, \frac{2}{7})$ $+ \frac{1}{42}\sqrt{627}e^1 \otimes e_7 + \frac{1}{42}\sqrt{798}e^3 \otimes e_8$	{12345, 123569, 1239, 145689, 1489, 158, 2456789, 24789, 2578, 3457, 35679, 379}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{953}\sqrt{6601}e^{12}, \frac{4}{953}\sqrt{1794}e^{34} + \frac{12}{953}\sqrt{667}e^{56}$	$(\frac{208}{953}, -\frac{197}{953}, \frac{104}{953}, -\frac{80}{953}, \frac{195}{953}, -\frac{171}{953}, \frac{90}{953}, \frac{11}{953}, \frac{24}{953})$ $+ \frac{184}{953}e^3 \otimes e_4 + \frac{36}{953}\sqrt{115}e^1 \otimes e_9 + \frac{4}{953}\sqrt{8418}e^5 \otimes e_8$	{236789, 23689, 246789, 24689, 3579, 359, 4579, 459}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{14}{151}\sqrt{34}e^{12}, \frac{14}{151}\sqrt{6}e^{34} + \frac{84}{151}e^{56}$	$(-\frac{16}{151}, -\frac{16}{151}, \frac{73}{151}, -\frac{25}{151}, \frac{66}{151}, -\frac{18}{151}, \frac{18}{151}, -\frac{32}{151}, \frac{48}{151})$ $+ \frac{28}{151}\sqrt{21}e^5 \otimes e_8 + \frac{98}{151}e^3 \otimes e_4$	{12356, 123567, 12456, 124567, 1378, 138, 1478, 148, 356, 3567, 456, 4567}
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{3}{8}e^{12}, \frac{3}{4}e^{34} + \frac{3}{4}e^{56}$	$(\frac{1}{8}, \frac{1}{8}, -\frac{1}{16}, -\frac{1}{16}, -\frac{1}{16}, -\frac{1}{16}, 1, \frac{1}{4}, -\frac{1}{8})$ $+ \frac{3}{8}\sqrt{13}e^7 \otimes e_9$	{1234567, 12347, 12359, 127, 1345678, 13478, 13589, 178, 34567, 347, 359, 7}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:7	$0, 0, 0, 0, 0, 0, 0, \frac{4}{823}\sqrt{6501}e^{12}, \frac{2}{823}\sqrt{13002}e^{34} + \frac{2}{823}\sqrt{21670}e^{56}$	$(\frac{143}{823}, -\frac{251}{823}, \frac{242}{823}, \frac{12}{823}, \frac{286}{823}, -\frac{32}{823}, -\frac{152}{823}, -\frac{108}{823}, \frac{254}{823})$ $+ \frac{2}{823}\sqrt{45310}e^3 \otimes e_7 + \frac{2}{823}\sqrt{62646}e^5 \otimes e_8 + \frac{394}{823}e^1 \otimes e_2$	{1348, 13689, 146789, 178, 2348, 23689, 246789, 278}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{38766}e^{12}, \frac{7}{193}\sqrt{195}e^{13} + \frac{1}{386}\sqrt{18291}e^{24} + \frac{1}{193}\sqrt{273}e^{56}$	$(\frac{217}{772}, \frac{5}{386}, -\frac{55}{772}, \frac{38}{193}, \frac{177}{386}, -\frac{48}{193}, -\frac{329}{772}, \frac{227}{772}, \frac{81}{386})$ $+ \frac{273}{386}e^5 \otimes e_6 + \frac{3}{386}\sqrt{12558}e^1 \otimes e_7$	{12459, 12469, 1589, 1689, 2345789, 2346789, 3579, 3679}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{405}\sqrt{14214}e^{12}, \frac{2}{405}\sqrt{5459}e^{13} + \frac{4}{405}\sqrt{1133}e^{24} + \frac{8}{405}\sqrt{103}e^{56}$	$(\frac{14}{45}, -\frac{143}{405}, -\frac{16}{81}, \frac{7}{15}, \frac{23}{405}, \frac{23}{405}, \frac{13}{135}, -\frac{17}{405}, \frac{46}{405})$ $+ \frac{2}{405}\sqrt{19982}e^4 \otimes e_8 + \frac{4}{405}\sqrt{4429}e^1 \otimes e_3$	{124, 12456, 124567, 1247, 15678, 1568, 178, 18}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{9}{256}\sqrt{178}e^{12}, \frac{1}{256}\sqrt{4895}e^{13} + \frac{1}{256}\sqrt{4895}e^{24} + \frac{1}{256}\sqrt{8366}e^{56}$	$(\frac{99}{512}, \frac{99}{512}, -\frac{79}{512}, -\frac{79}{512}, \frac{39}{256}, -\frac{29}{256}, -\frac{25}{128}, \frac{99}{256}, \frac{5}{128})$ $+ \frac{1}{128}\sqrt{3026}e^5 \otimes e_7 + \frac{1}{256}\sqrt{15130}e^1 \otimes e_3 - \frac{1}{256}\sqrt{15130}e^2 \otimes e_4$	{1256, 127, 14568, 1478, 3456, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{9}{256}\sqrt{178}e^{12}, \frac{1}{256}\sqrt{4895}e^{13} + \frac{1}{256}\sqrt{4895}e^{24} + \frac{1}{256}\sqrt{8366}e^{56}$	$(\frac{99}{512}, \frac{99}{512}, -\frac{79}{512}, -\frac{79}{512}, \frac{39}{256}, -\frac{29}{256}, -\frac{25}{128}, \frac{99}{256}, \frac{5}{128})$ $+ \frac{1}{128}\sqrt{3026}e^5 \otimes e_7 + \frac{1}{256}\sqrt{15130}e^1 \otimes e_3 + \frac{1}{256}\sqrt{15130}e^2 \otimes e_4$	{1256, 127, 14568, 1478, 3456, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{6}{809}\sqrt{1474}e^{12}, \frac{2}{809}\sqrt{11055}e^{13} + \frac{2}{809}\sqrt{11055}e^{24} + \frac{4}{809}\sqrt{4422}e^{56}$	$(\frac{187}{809}, -\frac{47}{809}, -\frac{215}{809}, \frac{19}{809}, \frac{187}{809}, -\frac{215}{809}, \frac{374}{809}, \frac{140}{809}, -\frac{28}{809})$ $+ \frac{402}{809}e^5 \otimes e_6 + \frac{60}{809}\sqrt{67}e^7 \otimes e_9 + \frac{6}{809}\sqrt{5226}e^1 \otimes e_3$	{1259, 1269, 14589, 14689, 23589, 23689, 3459, 3469}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{10}{451}\sqrt{390}e^{12}, \frac{10}{451}\sqrt{402}e^{13} + \frac{10}{451}\sqrt{219}e^{24} + \frac{20}{451}\sqrt{6}e^{56}$	$(-\frac{20}{451}, -\frac{20}{451}, \frac{10}{41}, \frac{10}{41}, \frac{45}{451}, \frac{45}{451}, -\frac{170}{451}, -\frac{40}{451}, \frac{90}{451})$ $+ \frac{30}{451}\sqrt{69}e^1 \otimes e_7 + \frac{10}{451}\sqrt{69}e^3 \otimes e_8$	{1235, 15689, 189, 2578, 35679, 379}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{12}{59}\sqrt{5}e^{12}, \frac{2}{59}\sqrt{6}e^{13} + \frac{2}{59}\sqrt{6}e^{24} + \frac{4}{59}\sqrt{21}e^{56}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{14}{59}, -\frac{14}{59}, -\frac{2}{59}, -\frac{2}{59}, \frac{20}{59}, \frac{20}{59}, -\frac{4}{59})$ $+ \frac{12}{59}\sqrt{5}e^7 \otimes e_9 + \frac{6}{59}\sqrt{26}e^1 \otimes e_3 + \frac{6}{59}\sqrt{26}e^2 \otimes e_4$	{12567, 127, 145678, 1478, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{12}{59}\sqrt{5}e^{12}, \frac{2}{59}\sqrt{6}e^{13} + \frac{2}{59}\sqrt{6}e^{24} + \frac{4}{59}\sqrt{21}e^{56}$	$(\frac{10}{59}, \frac{10}{59}, -\frac{14}{59}, -\frac{14}{59}, -\frac{2}{59}, -\frac{2}{59}, \frac{20}{59}, \frac{20}{59}, -\frac{4}{59})$ $+ \frac{12}{59}\sqrt{5}e^7 \otimes e_9 + \frac{6}{59}\sqrt{26}e^1 \otimes e_3 - \frac{6}{59}\sqrt{26}e^2 \otimes e_4$	{12567, 127, 145678, 1478, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{20}{667}\sqrt{330}e^{12}, \frac{10}{667}\sqrt{10}e^{13} + \frac{10}{667}\sqrt{635}e^{24} + \frac{10}{667}\sqrt{890}e^{56}$	$(\frac{55}{667}, -\frac{74}{667}, \frac{61}{667}, \frac{190}{667}, \frac{231}{667}, -\frac{5}{29}, -\frac{195}{667}, -\frac{19}{667}, \frac{4}{23})$ $+ \frac{10}{667}\sqrt{1290}e^1 \otimes e_7 + \frac{10}{667}\sqrt{1730}e^5 \otimes e_8$	{12356, 12459, 1348, 1689, 2346789, 278, 3579, 4567}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{44}{329}\sqrt{13}e^{12}, \frac{22}{329}\sqrt{23}e^{13} + \frac{110}{329}\sqrt{2}e^{24} + \frac{22}{329}\sqrt{3}e^{56}$	$(\frac{22}{47}, -\frac{66}{329}, -\frac{88}{329}, \frac{132}{329}, \frac{33}{329}, \frac{33}{329}, -\frac{110}{329}, \frac{88}{329}, \frac{66}{329})$ $+ \frac{22}{329}\sqrt{146}e^4 \otimes e_7 + \frac{22}{47}\sqrt{3}e^1 \otimes e_3$	{124, 12456, 15678, 178, 234568, 2348, 3567, 37}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{570}e^{12}, \frac{1}{112}\sqrt{1311}e^{13} + \frac{1}{112}\sqrt{1311}e^{24} + \frac{1}{112}\sqrt{1254}e^{56}$	$(\frac{55}{224}, \frac{55}{224}, -\frac{59}{224}, -\frac{59}{224}, -\frac{1}{112}, -\frac{1}{112}, \frac{5}{56}, \frac{55}{112}, -\frac{1}{56})$ $+ \frac{3}{112}\sqrt{646}e^1 \otimes e_3 + \frac{3}{112}\sqrt{646}e^2 \otimes e_4$	{12, 1256, 12567, 127, 145678, 14568, 1478, 148, 34, 3456, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{570}e^{12}, \frac{1}{112}\sqrt{1311}e^{13} + \frac{1}{112}\sqrt{1311}e^{24} + \frac{1}{112}\sqrt{1254}e^{56}$	$(\frac{55}{224}, \frac{55}{224}, -\frac{59}{224}, -\frac{59}{224}, -\frac{1}{112}, -\frac{1}{112}, \frac{5}{56}, \frac{55}{112}, -\frac{1}{56})$ $+ \frac{3}{112}\sqrt{646}e^1 \otimes e_3 - \frac{3}{112}\sqrt{646}e^2 \otimes e_4$	{12, 1256, 12567, 127, 145678, 14568, 1478, 148, 34, 3456, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{5}{404}\sqrt{1810}e^{12}, \frac{5}{404}\sqrt{695}e^{13} + \frac{5}{404}\sqrt{695}e^{24} + \frac{25}{202}\sqrt{13}e^{56}$	$(\frac{149}{808}, -\frac{157}{808}, -\frac{1}{8}, \frac{205}{808}, \frac{121}{404}, -\frac{97}{404}, \frac{33}{404}, -\frac{1}{101}, \frac{6}{101})$ $+ \frac{15}{404}\sqrt{170}e^1 \otimes e_3 + \frac{5}{202}\sqrt{545}e^5 \otimes e_8$	{1256, 12567, 1478, 148, 2378, 238, 3456, 34567}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{6}{31}\sqrt{26}e^{12}, \frac{1}{31}\sqrt{195}e^{13} + \frac{1}{31}\sqrt{195}e^{24} + \frac{1}{31}\sqrt{273}e^{56}$	$(-\frac{4}{31}, -\frac{4}{31}, \frac{8}{31}, \frac{8}{31}, \frac{2}{31}, \frac{2}{31}, 1, -\frac{8}{31}, \frac{4}{31})$ $+ \frac{3}{31}\sqrt{221}e^7 \otimes e_8$	{1234579, 12567, 127, 13589, 14568, 148, 34567, 347, 579}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{6}{809}\sqrt{1474}e^{12}, \frac{2}{809}\sqrt{11055}e^{13} + \frac{2}{809}\sqrt{11055}e^{24} + \frac{4}{809}\sqrt{4422}e^{56}$	$(\frac{187}{809}, -\frac{47}{809}, -\frac{215}{809}, \frac{19}{809}, \frac{187}{809}, -\frac{215}{809}, \frac{374}{809}, \frac{140}{809}, -\frac{28}{809})$ $- \frac{402}{809}e^5 \otimes e_6 + \frac{60}{809}\sqrt{67}e^7 \otimes e_9 + \frac{6}{809}\sqrt{5226}e^1 \otimes e_3$	{1259, 1269, 14589, 14689, 23589, 23689, 3459, 3469}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{161}\sqrt{1030}e^{12}, \frac{2}{161}\sqrt{6386}e^{13} + \frac{2}{161}\sqrt{515}e^{24} + \frac{2}{161}\sqrt{1030}e^{56}$	$(-\frac{25}{161}, \frac{6}{23}, \frac{99}{161}, \frac{32}{161}, \frac{37}{31}, \frac{37}{161}, -\frac{107}{161}, \frac{17}{161}, \frac{74}{161})$ $+ \frac{2}{161}\sqrt{13802}e^3 \otimes e_7$	{12358, 12456789, 124789, 1345, 15679, 179, 234569, 2349, 257, 35689, 389, 4578}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{12}{383}\sqrt{86}e^{12},$ $\frac{2}{383}\sqrt{7482}e^{13} + \frac{2}{383}\sqrt{7482}e^{24} + \frac{2}{383}\sqrt{5934}e^{56}$	$(\frac{10}{383}, \frac{10}{383}, -\frac{14}{383}, -\frac{14}{383}, \frac{127}{383}, -\frac{131}{383}, \frac{254}{383}, \frac{20}{383}, -\frac{4}{383})$ $+ \frac{258}{383}e^5 \otimes e_6 + \frac{6}{383}\sqrt{3010}e^7 \otimes e_9$	{12589, 12689, 1459, 1469, 34589, 34689}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{1}{463}\sqrt{66234}e^{12},$ $\frac{8}{463}\sqrt{249}e^{13} + \frac{8}{463}\sqrt{249}e^{24} + \frac{1}{463}\sqrt{2490}e^{56}$	$(\frac{91}{463}, -\frac{116}{463}, \frac{17}{463}, \frac{224}{463}, \frac{54}{463}, \frac{54}{463}, -\frac{158}{463}, -\frac{25}{463}, \frac{108}{463})$ $+ \frac{3}{463}\sqrt{11454}e^1 \otimes e_7 + \frac{3}{463}\sqrt{11454}e^4 \otimes e_8$	{12345, 1358, 2356789, 23789, 345679, 3479}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3213}\sqrt{236598}e^{12},$ $\frac{2}{3213}\sqrt{199682}e^{13} + \frac{4}{3213}\sqrt{69637}e^{24} + \frac{20}{3213}\sqrt{839}e^{56}$	$(-\frac{250}{3213}, -\frac{344}{3213}, \frac{110}{357}, \frac{1084}{3213}, \frac{403}{1071}, -\frac{67}{459}, -\frac{688}{3213}, -\frac{22}{119}, \frac{740}{3213})$ $+ \frac{1678}{3213}e^5 \otimes e_6 + \frac{2}{3213}\sqrt{803762}e^3 \otimes e_7 + \frac{2}{3213}\sqrt{961494}e^4 \otimes e_8$	{12345, 12346, 1358, 1368}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{41}\sqrt{66}e^{12}, \frac{2}{41}\sqrt{33}e^{13} + \frac{2}{41}\sqrt{33}e^{24} + \frac{2}{41}\sqrt{66}e^{56}$	$(\frac{5}{41}, \frac{5}{41}, \frac{7}{41}, \frac{7}{41}, \frac{39}{41}, -\frac{27}{41}, \frac{8}{41}, \frac{10}{41}, \frac{12}{41})$ $+ \frac{66}{41}e^5 \otimes e_6$	{12579, 1259, 12679, 1269, 145789, 14589, 146789, 14689, 34579, 3459, 34679, 3469}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{6}{353}\sqrt{298}e^{12}, \frac{6}{353}\sqrt{105}e^{13} + \frac{6}{353}\sqrt{105}e^{24} + \frac{6}{353}\sqrt{182}e^{56}$	$(\frac{15}{353}, \frac{15}{353}, -\frac{21}{353}, -\frac{21}{353}, \frac{66}{353}, -\frac{72}{353}, \frac{30}{353}, \frac{30}{353}, -\frac{6}{353})$ $+ \frac{12}{353}\sqrt{69}e^5 \otimes e_8 + \frac{6}{353}\sqrt{185}e^1 \otimes e_3 + \frac{6}{353}\sqrt{185}e^2 \otimes e_4 + \frac{6}{353}\sqrt{22}e^7 \otimes e_9$	{12567, 1478, 34567}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{6}{353}\sqrt{298}e^{12}, \frac{6}{353}\sqrt{105}e^{13} + \frac{6}{353}\sqrt{105}e^{24} + \frac{6}{353}\sqrt{182}e^{56}$	$(\frac{15}{353}, \frac{15}{353}, -\frac{21}{353}, -\frac{21}{353}, \frac{66}{353}, -\frac{72}{353}, \frac{30}{353}, \frac{30}{353}, -\frac{6}{353})$ $+ \frac{12}{353}\sqrt{69}e^5 \otimes e_8 + \frac{6}{353}\sqrt{185}e^1 \otimes e_3 - \frac{6}{353}\sqrt{185}e^2 \otimes e_4 + \frac{6}{353}\sqrt{22}e^7 \otimes e_9$	{12567, 1478, 34567}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{25}{404}\sqrt{13}e^{12},$ $\frac{5}{404}\sqrt{695}e^{13} + \frac{5}{404}\sqrt{695}e^{24} + \frac{5}{404}\sqrt{1810}e^{56}$	$(-\frac{55}{808}, -\frac{55}{808}, \frac{205}{808}, \frac{205}{808}, \frac{5}{404}, \frac{35}{202}, -\frac{30}{101}, -\frac{55}{404}, \frac{75}{404})$ $+ \frac{15}{404}\sqrt{170}e^5 \otimes e_7 + \frac{5}{202}\sqrt{545}e^6 \otimes e_8$	{1234679, 1256, 13589, 1478, 3456, 679}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{38766}e^{12},$ $\frac{7}{193}\sqrt{195}e^{13} + \frac{1}{386}\sqrt{18291}e^{24} + \frac{1}{193}\sqrt{273}e^{56}$	$(-\frac{197}{772}, \frac{5}{386}, \frac{359}{772}, \frac{38}{193}, \frac{177}{386}, -\frac{48}{193}, \frac{85}{772}, -\frac{187}{772}, \frac{81}{386})$ $+ \frac{273}{386}e^5 \otimes e_6 + \frac{3}{386}\sqrt{12558}e^3 \otimes e_8$	{15789, 1589, 16789, 1689, 3579, 359, 3679, 369}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{38766}e^{12},$ $\frac{28}{499}\sqrt{195}e^{13} + \frac{2}{499}\sqrt{18291}e^{24} + \frac{4}{499}\sqrt{273}e^{56}$	$(\frac{217}{499}, \frac{10}{499}, -\frac{55}{499}, \frac{152}{499}, \frac{81}{499}, \frac{81}{499}, -\frac{329}{499}, \frac{227}{499}, \frac{162}{499})$ $+ \frac{6}{499}\sqrt{12558}e^1 \otimes e_7$	{123, 12356, 12459, 134568, 1348, 1589, 2345789, 25678, 278, 3579, 4567, 47}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3501}\sqrt{625002}e^{12},$ $\frac{2}{3501}\sqrt{287915}e^{13} + \frac{8}{3501}\sqrt{6470}e^{24} + \frac{2}{3501}\sqrt{311854}e^{56}$	$(\frac{98}{389}, -\frac{853}{3501}, -\frac{412}{3501}, \frac{147}{389}, \frac{679}{3501}, -\frac{209}{3501}, -\frac{205}{1167}, \frac{29}{3501}, \frac{470}{3501})$ $+ \frac{22}{3501}\sqrt{6470}e^4 \otimes e_8 + \frac{2}{3501}\sqrt{731110}e^1 \otimes e_3 + \frac{2}{3501}\sqrt{143634}e^5 \otimes e_7$	{12456, 1247, 1568, 178}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{8}{41}\sqrt{19}e^{12}, \frac{16}{41}\sqrt{2}e^{13} + \frac{16}{41}\sqrt{2}e^{24} + \frac{8}{41}\sqrt{19}e^{56}$	$(-\frac{5}{41}, -\frac{5}{41}, \frac{14}{41}, \frac{14}{41}, \frac{22}{41}, -\frac{13}{41}, \frac{6}{41}, -\frac{10}{41}, \frac{9}{41})$ $+ \frac{8}{41}\sqrt{35}e^5 \otimes e_8$	{1234579, 123459, 1256, 12567, 136789, 13689, 1478, 148, 3456, 34567, 579, 59}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{2}{405}\sqrt{14214}e^{12},$ $\frac{2}{405}\sqrt{5459}e^{13} + \frac{4}{405}\sqrt{1133}e^{24} + \frac{8}{405}\sqrt{103}e^{56}$	$(\frac{14}{45}, \frac{17}{135}, -\frac{16}{81}, -\frac{1}{81}, \frac{23}{405}, \frac{23}{405}, -\frac{31}{81}, \frac{59}{135}, \frac{46}{405})$ $+ \frac{2}{405}\sqrt{19982}e^2 \otimes e_7 + \frac{4}{405}\sqrt{4429}e^1 \otimes e_3$	{124, 12456, 15678, 178, 234568, 2348, 3567, 37}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{22}{815}\sqrt{322}e^{12},$ $\frac{22}{815}\sqrt{131}e^{13} + \frac{22}{815}\sqrt{94}e^{24} + \frac{44}{815}\sqrt{57}e^{56}$	$(\frac{154}{815}, -\frac{33}{163}, -\frac{88}{815}, \frac{231}{815}, \frac{231}{815}, -\frac{33}{163}, -\frac{11}{815}, -\frac{11}{815}, \frac{66}{815})$ $+ \frac{132}{815}\sqrt{11}e^5 \otimes e_8 + \frac{22}{815}\sqrt{282}e^1 \otimes e_3 + \frac{22}{815}\sqrt{74}e^4 \otimes e_7$	{12567, 148, 2378, 3456}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{12}{101}\sqrt{26}e^{12}, \frac{2}{101}\sqrt{195}e^{13} + \frac{2}{101}\sqrt{195}e^{24} + \frac{2}{101}\sqrt{273}e^{56}$	$(-\frac{8}{101}, -\frac{8}{101}, \frac{16}{101}, \frac{16}{101}, \frac{43}{101}, -\frac{35}{101}, \frac{62}{101}, -\frac{16}{101}, \frac{8}{101})$ $+ \frac{6}{101}\sqrt{221}e^7 \otimes e_8 + \frac{78}{101}e^5 \otimes e_6$	{1234579, 1234679, 13589, 13689, 579, 679}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{92}{2961}\sqrt{141}e^{12},$ $\frac{46}{2961}\sqrt{53}e^{13} + \frac{46}{2961}\sqrt{470}e^{24} + \frac{46}{2961}\sqrt{229}e^{56}$	$(\frac{184}{987}, -\frac{782}{2961}, -\frac{506}{2961}, \frac{92}{329}, \frac{23}{2961}, \frac{23}{2961}, \frac{368}{987}, -\frac{230}{2961}, \frac{46}{2961})$ $+ \frac{46}{2961}\sqrt{1046}e^4 \otimes e_8 + \frac{46}{2961}\sqrt{811}e^1 \otimes e_3 + \frac{92}{2961}\sqrt{213}e^7 \otimes e_9$	{124567, 1247, 15678, 178}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{1}{628}\sqrt{67298}e^{12},$ $\frac{23}{628}\sqrt{35}e^{13} + \frac{23}{628}\sqrt{35}e^{24} + \frac{1}{314}\sqrt{14973}e^{56}$	$(\frac{165}{1256}, -\frac{205}{1256}, -\frac{1}{8}, \frac{213}{1256}, \frac{141}{628}, -\frac{137}{628}, \frac{165}{628}, -\frac{5}{157}, \frac{1}{157})$ $+ \frac{1}{314}\sqrt{22379}e^5 \otimes e_8 + \frac{1}{314}\sqrt{9338}e^7 \otimes e_9 + \frac{1}{628}\sqrt{59570}e^1 \otimes e_3$	{12567, 1478, 2378, 34567}
92:8	$0, 0, 0, 0, 0, 0, 0, \frac{3}{112}\sqrt{570}e^{12},$ $\frac{1}{112}\sqrt{1311}e^{13} + \frac{1}{112}\sqrt{1311}e^{24} + \frac{1}{112}\sqrt{1254}e^{56}$	$(\frac{55}{224}, -\frac{47}{224}, -\frac{59}{224}, \frac{43}{224}, -\frac{1}{112}, -\frac{1}{112}, \frac{61}{112}, \frac{1}{28}, -\frac{1}{56})$ $+ \frac{3}{112}\sqrt{646}e^1 \otimes e_3 + \frac{3}{112}\sqrt{646}e^7 \otimes e_8$	{12567, 127, 14568, 148, 23568, 238, 34567, 347}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{33}e^{12}, \frac{2}{9}e^{13} + \frac{2}{9}e^{24} + \frac{1}{27}\sqrt{30}e^{56}$	$\left(\frac{2}{27}, \frac{2}{27}, -\frac{4}{27}, -\frac{4}{27}, -\frac{1}{27}, -\frac{1}{27}, \frac{10}{27}, \frac{4}{27}, -\frac{2}{27}\right)$ $+ \frac{1}{27}\sqrt{102}e^1 \otimes e_3 + \frac{1}{27}\sqrt{102}e^2 \otimes e_4 + \frac{1}{27}\sqrt{102}e^7 \otimes e_8$	{12567, 127, 14568, 148, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{33}e^{12}, \frac{2}{9}e^{13} + \frac{2}{9}e^{24} + \frac{1}{27}\sqrt{30}e^{56}$	$\left(\frac{2}{27}, \frac{2}{27}, -\frac{4}{27}, -\frac{4}{27}, -\frac{1}{27}, -\frac{1}{27}, \frac{10}{27}, \frac{4}{27}, -\frac{2}{27}\right)$ $+ \frac{1}{27}\sqrt{102}e^1 \otimes e_3 - \frac{1}{27}\sqrt{102}e^2 \otimes e_4 + \frac{1}{27}\sqrt{102}e^7 \otimes e_8$	{12567, 127, 14568, 148, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{1798}e^{12},$ $\frac{1}{281}\sqrt{2639}e^{13} + \frac{1}{281}\sqrt{2639}e^{24} + \frac{1}{281}\sqrt{4234}e^{56}$	$\left(\frac{13}{281}, \frac{13}{281}, -\frac{16}{281}, -\frac{16}{281}, \frac{55}{281}, \frac{58}{281}, \frac{15}{281}, \frac{26}{281}, -\frac{3}{281}\right)$ $+ \frac{1}{281}\sqrt{6554}e^5 \otimes e_8 + \frac{3}{281}\sqrt{493}e^1 \otimes e_3 - \frac{3}{281}\sqrt{493}e^2 \otimes e_4$	{1256, 12567, 1478, 148, 3456, 34567}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{1798}e^{12},$ $\frac{1}{281}\sqrt{2639}e^{13} + \frac{1}{281}\sqrt{2639}e^{24} + \frac{1}{281}\sqrt{4234}e^{56}$	$\left(\frac{13}{281}, \frac{13}{281}, -\frac{16}{281}, -\frac{16}{281}, \frac{55}{281}, \frac{58}{281}, \frac{15}{281}, \frac{26}{281}, -\frac{3}{281}\right)$ $+ \frac{1}{281}\sqrt{6554}e^5 \otimes e_8 + \frac{3}{281}\sqrt{493}e^1 \otimes e_3 + \frac{3}{281}\sqrt{493}e^2 \otimes e_4$	{1256, 12567, 1478, 148, 3456, 34567}
92:8	$0, 0, 0, 0, 0, 0, \frac{3}{304}\sqrt{1474}e^{12},$ $\frac{1}{304}\sqrt{11055}e^{13} + \frac{1}{304}\sqrt{11055}e^{24} + \frac{1}{152}\sqrt{4422}e^{56}$	$\left(\frac{187}{608}, -\frac{47}{608}, -\frac{215}{608}, \frac{1}{32}, -\frac{7}{304}, -\frac{7}{304}, \frac{187}{304}, \frac{35}{152}, -\frac{7}{152}\right)$ $+ \frac{15}{152}\sqrt{67}e^7 \otimes e_9 + \frac{3}{304}\sqrt{5226}e^1 \otimes e_3$	{1259, 14589, 23589, 3459}
92:8	$0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{1030}e^{12},$ $\frac{1}{132}\sqrt{6386}e^{13} + \frac{1}{132}\sqrt{515}e^{24} + \frac{1}{132}\sqrt{1030}e^{56}$	$\left(-\frac{25}{264}, \frac{7}{44}, \frac{3}{8}, \frac{4}{33}, \frac{35}{66}, -\frac{1}{4}, -\frac{107}{264}, \frac{17}{264}, \frac{37}{132}\right)$ $+ \frac{103}{132}e^5 \otimes e_6 + \frac{1}{132}\sqrt{13802}e^3 \otimes e_7$	{12358, 12368, 1345, 1346, 257, 267, 4578, 4678}
92:8	$0, 0, 0, 0, 0, 0, \frac{3}{67}\sqrt{129}e^{12}, \frac{1}{67}\sqrt{645}e^{13} + \frac{1}{67}\sqrt{731}e^{24} + \frac{2}{67}\sqrt{258}e^{56}$	$\left(-\frac{27}{134}, \frac{5}{134}, \frac{32}{67}, \frac{16}{67}, \frac{23}{67}, -\frac{9}{134}, -\frac{20}{67}, -\frac{11}{67}, \frac{37}{134}\right)$ $+ \frac{1}{67}\sqrt{2365}e^5 \otimes e_7 + \frac{8}{67}\sqrt{43}e^3 \otimes e_8$	{12356, 1237, 1589, 16789, 2568, 278, 359, 3679}
92:8	$0, 0, 0, 0, 0, 0, \frac{7}{76}\sqrt{38}e^{12}, \frac{7}{76}\sqrt{15}e^{13} + \frac{7}{76}\sqrt{15}e^{24} + \frac{7}{76}\sqrt{38}e^{56}$	$\left(\frac{61}{152}, -\frac{7}{152}, -\frac{37}{152}, \frac{31}{152}, \frac{23}{76}, -\frac{11}{76}, -\frac{13}{38}, \frac{27}{19}, \frac{3}{19}\right)$ $+ \frac{7}{38}\sqrt{17}e^1 \otimes e_3 + \frac{3}{38}\sqrt{17}e^5 \otimes e_7$	{1256, 127, 14568, 1478, 23568, 2378, 3456, 347}
92:8	$0, 0, 0, 0, 0, 0, \frac{8}{3421}\sqrt{9191}e^{12},$ $\frac{14}{3421}\sqrt{10302}e^{13} + \frac{2}{3421}\sqrt{91910}e^{24} + \frac{6}{3421}\sqrt{18382}e^{56}$	$\left(-\frac{2}{11}, -\frac{38}{3421}, \frac{754}{3421}, \frac{170}{3421}, \frac{773}{3421}, -\frac{641}{3421}, \frac{1546}{3421}, -\frac{60}{311}, \frac{12}{311}\right)$ $+ \frac{1414}{3421}e^5 \otimes e_6 + \frac{14}{3421}\sqrt{17978}e^7 \otimes e_9 + \frac{8}{3421}\sqrt{51611}e^3 \otimes e_8$	{14589, 14689, 3459, 3469}
92:8	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{273}e^{12}, \frac{1}{31}\sqrt{195}e^{13} + \frac{1}{31}\sqrt{195}e^{24} + \frac{6}{31}\sqrt{26}e^{56}$	$\left(\frac{9}{62}, \frac{9}{62}, \frac{8}{31}, \frac{8}{31}, \frac{19}{31}, -\frac{13}{62}, -\frac{20}{31}, \frac{9}{31}, \frac{25}{62}\right)$ $+ \frac{3}{31}\sqrt{221}e^5 \otimes e_7$	{123459, 1234679, 1256, 127, 13589, 136789, 14568, 1478, 3456, 347, 59, 679}
92:8	$0, 0, 0, 0, 0, 0, \frac{4}{67}\sqrt{30}e^{12}, \frac{2}{67}\sqrt{55}e^{13} + \frac{2}{67}\sqrt{55}e^{24} + \frac{4}{67}\sqrt{30}e^{56}$	$\left(\frac{8}{67}, -\frac{9}{67}, -\frac{2}{67}, \frac{15}{67}, -\frac{3}{67}, \frac{9}{67}, -\frac{13}{67}, -\frac{1}{67}, \frac{6}{67}\right)$ $+ \frac{2}{67}\sqrt{145}e^6 \otimes e_8 + \frac{2}{67}\sqrt{85}e^1 \otimes e_3 + \frac{2}{67}\sqrt{85}e^5 \otimes e_7$	{1256, 1478, 2378, 3456}
92:8	$0, 0, 0, 0, 0, 0, \frac{4}{1357}\sqrt{9191}e^{12},$ $\frac{7}{1357}\sqrt{10302}e^{13} + \frac{1}{1357}\sqrt{91910}e^{24} + \frac{3}{1357}\sqrt{18382}e^{56}$	$\left(-\frac{311}{1357}, -\frac{19}{1357}, \frac{377}{1357}, \frac{85}{1357}, \frac{33}{1357}, \frac{33}{1357}, \frac{773}{1357}, -\frac{330}{1357}, \frac{66}{1357}\right)$ $+ \frac{4}{1357}\sqrt{51611}e^3 \otimes e_8 + \frac{7}{1357}\sqrt{17978}e^7 \otimes e_9$	{1234567, 12347, 14589, 245678, 2478, 3459}
92:8	$0, 0, 0, 0, 0, 0, \frac{6}{127}\sqrt{86}e^{12},$ $\frac{1}{127}\sqrt{7482}e^{13} + \frac{1}{127}\sqrt{7482}e^{24} + \frac{1}{127}\sqrt{5934}e^{56}$	$\left(\frac{5}{127}, \frac{5}{127}, -\frac{7}{127}, -\frac{7}{127}, -\frac{1}{127}, -\frac{1}{127}, 1, \frac{10}{127}, -\frac{2}{127}\right)$ $+ \frac{3}{127}\sqrt{3010}e^7 \otimes e_9$	{12345678, 123478, 12589, 13567, 137, 1459, 34589, 5678, 78}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{499}\sqrt{38766}e^{12},$ $\frac{28}{499}\sqrt{195}e^{13} + \frac{2}{499}\sqrt{18291}e^{24} + \frac{4}{499}\sqrt{273}e^{56}$	$\left(-\frac{197}{499}, \frac{10}{499}, \frac{359}{499}, \frac{152}{499}, \frac{81}{499}, \frac{81}{499}, \frac{85}{499}, -\frac{187}{499}, \frac{162}{499}\right)$ $+ \frac{6}{499}\sqrt{12558}e^3 \otimes e_8$	{123, 12356, 123567, 1237, 15789, 1589, 25678, 2568, 278, 28, 3579, 359}
92:8	$0, 0, 0, 0, 0, 0, \frac{6}{31}\sqrt{26}e^{12}, \frac{1}{31}\sqrt{195}e^{13} + \frac{1}{31}\sqrt{195}e^{24} + \frac{1}{31}\sqrt{273}e^{56}$	$\left(\frac{43}{62}, -\frac{4}{31}, -\frac{35}{62}, \frac{8}{31}, \frac{2}{31}, \frac{2}{31}, \frac{11}{62}, \frac{35}{62}, \frac{4}{31}\right)$ $+ \frac{3}{31}\sqrt{221}e^1 \otimes e_3$	{12, 1256, 12567, 127, 145678, 14568, 1478, 148, 235678, 23568, 2378, 238, 34, 3456, 34567, 347}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{3645}\sqrt{425334}e^{12},$ $\frac{14}{3645}\sqrt{3731}e^{13} + \frac{164}{3645}\sqrt{7}e^{24} + \frac{4}{3645}\sqrt{59122}e^{56}$	$\left(\frac{46}{405}, -\frac{47}{1215}, -\frac{32}{729}, \frac{79}{729}, \frac{847}{3645}, -\frac{593}{3645}, -\frac{143}{729}, \frac{91}{1215}, \frac{254}{3645}\right)$ $+ \frac{2}{3645}\sqrt{271502}e^2 \otimes e_7 + \frac{4}{3645}\sqrt{73759}e^1 \otimes e_3 + \frac{8}{1215}\sqrt{2870}e^5 \otimes e_8$	{1256, 1478, 238, 34567}
92:8	$0, 0, 0, 0, 0, 0, \frac{5}{263}\sqrt{390}e^{12}, \frac{5}{263}\sqrt{402}e^{13} + \frac{5}{263}\sqrt{219}e^{24} + \frac{10}{263}\sqrt{6}e^{56}$	$\left(-\frac{10}{263}, -\frac{10}{263}, \frac{55}{263}, \frac{55}{263}, \frac{60}{263}, -\frac{15}{263}, -\frac{85}{263}, -\frac{20}{263}, \frac{45}{263}\right)$ $+ \frac{15}{263}\sqrt{69}e^1 \otimes e_7 + \frac{15}{263}\sqrt{69}e^3 \otimes e_8 + \frac{75}{263}e^5 \otimes e_6$	{1235, 1236, 2578, 2678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:8	$0, 0, 0, 0, 0, 0, \frac{1}{1187}\sqrt{236598}e^{12},$ $\frac{1}{1187}\sqrt{199682}e^{13} + \frac{2}{1187}\sqrt{69637}e^{24} + \frac{10}{1187}\sqrt{839}e^{56}$	$(-\frac{125}{1187}, -\frac{172}{1187}, \frac{495}{1187}, \frac{542}{1187}, \frac{185}{1187}, \frac{185}{1187}, -\frac{344}{1187}, -\frac{297}{1187}, \frac{370}{1187})$ $+ \frac{1}{1187}\sqrt{803762}e^3 \otimes e_7 + \frac{1}{1187}\sqrt{961494}e^4 \otimes e_8$	{12345, 1358, 235689, 2389, 34569, 349}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{1175}\sqrt{66234}e^{12},$ $\frac{16}{1175}\sqrt{249}e^{13} + \frac{16}{1175}\sqrt{249}e^{24} + \frac{10}{1175}\sqrt{2490}e^{56}$	$(\frac{182}{1175}, -\frac{232}{1175}, \frac{34}{1175}, \frac{448}{1175}, \frac{357}{1175}, -\frac{3}{25}, -\frac{316}{1175}, -\frac{2}{47}, \frac{216}{1175})$ $+ \frac{498}{1175}e^5 \otimes e_6 + \frac{6}{1175}\sqrt{11454}e^1 \otimes e_7 + \frac{6}{1175}\sqrt{11454}e^4 \otimes e_8$	{12345, 12346, 1358, 1368}
92:8	$0, 0, 0, 0, 0, 0, \frac{2}{11}\sqrt{6}e^{12}, \frac{1}{11}\sqrt{2}e^{13} + \frac{1}{11}\sqrt{2}e^{24} + \frac{1}{11}\sqrt{38}e^{56}$	$(-\frac{1}{11}, -\frac{1}{11}, \frac{7}{55}, \frac{7}{55}, \frac{3}{11}, -\frac{13}{55}, \frac{27}{55}, -\frac{2}{11}, \frac{5}{55})$ $+ \frac{1}{11}\sqrt{42}e^7 \otimes e_9 + \frac{2}{11}\sqrt{14}e^5 \otimes e_8$	{123459, 12567, 13689, 1478, 34567, 59}
92:9	$0, 0, 0, 0, 0, 0, \frac{14}{1403}\sqrt{1031}e^{13} + \frac{1}{1403}\sqrt{439206}e^{24},$ $\frac{1}{1403}\sqrt{476322}e^{12} + \frac{3}{1403}\sqrt{6186}e^{56}$	$(\frac{648}{1403}, -\frac{294}{1403}, -\frac{383}{1403}, \frac{559}{1403}, \frac{177}{1403}, \frac{177}{1403}, -\frac{472}{1403}, \frac{265}{1403}, \frac{354}{1403})$ $+ \frac{1}{1403}\sqrt{1301122}e^1 \otimes e_3 + \frac{2}{1403}\sqrt{320641}e^4 \otimes e_7$	{1245, 15679, 179, 234569, 2349, 357}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{531}\sqrt{7414}e^{13} + \frac{4}{531}\sqrt{1685}e^{24},$ $\frac{2}{531}\sqrt{14491}e^{12} + \frac{2}{531}\sqrt{15502}e^{56}$	$(-\frac{20}{177}, \frac{158}{531}, \frac{37}{531}, \frac{115}{531}, \frac{49}{531}, \frac{49}{531}, -\frac{341}{531}, \frac{91}{177}, \frac{98}{531})$ $+ \frac{4}{531}\sqrt{36733}e^3 \otimes e_7$	{12359, 1245789, 134, 13456, 15678, 178, 234568, 2348, 2567, 27, 3589, 4579}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{49}\sqrt{30}e^{13} + \frac{10}{49}\sqrt{2}e^{24}, \frac{2}{49}\sqrt{10}e^{12} + \frac{4}{49}\sqrt{15}e^{56}$	$(\frac{6}{49}, -\frac{11}{98}, -\frac{3}{49}, \frac{17}{98}, \frac{11}{49}, -\frac{3}{14}, -\frac{2}{49}, \frac{3}{49}, \frac{1}{98})$ $+ \frac{2}{49}\sqrt{26}e^1 \otimes e_7 + \frac{2}{49}\sqrt{66}e^4 \otimes e_9 + \frac{2}{49}\sqrt{86}e^5 \otimes e_8$	{12689, 148, 24567, 579}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{102}e^{13} + \frac{2}{99}\sqrt{102}e^{24}, \frac{4}{33}\sqrt{13}e^{12} + \frac{4}{99}\sqrt{3}e^{56}$	$(\frac{2}{33}, \frac{2}{33}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{33}, \frac{2}{33}, \frac{4}{11}, -\frac{4}{33}, \frac{4}{33})$ $+ \frac{2}{33}\sqrt{42}e^1 \otimes e_3 + \frac{2}{33}\sqrt{42}e^2 \otimes e_4 + \frac{4}{99}\sqrt{93}e^7 \otimes e_9$	{1257, 14569, 149, 3457}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{99}\sqrt{102}e^{13} + \frac{2}{99}\sqrt{102}e^{24}, \frac{4}{33}\sqrt{13}e^{12} + \frac{4}{99}\sqrt{3}e^{56}$	$(\frac{2}{33}, \frac{2}{33}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{33}, \frac{2}{33}, \frac{4}{11}, -\frac{4}{33}, \frac{4}{33})$ $+ \frac{2}{33}\sqrt{42}e^1 \otimes e_3 - \frac{2}{33}\sqrt{42}e^2 \otimes e_4 + \frac{4}{99}\sqrt{93}e^7 \otimes e_9$	{1257, 14569, 149, 3457}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2445}e^{13} + \frac{1}{128}\sqrt{2445}e^{24},$ $\frac{1}{128}\sqrt{16626}e^{12} + \frac{1}{64}\sqrt{815}e^{56}$	$(\frac{169}{256}, -\frac{45}{256}, -\frac{157}{256}, \frac{57}{128}, \frac{31}{128}, \frac{31}{128}, \frac{21}{128}, \frac{3}{64}, \frac{31}{64})$ $+ \frac{1}{128}\sqrt{34882}e^1 \otimes e_3$	{125, 1257, 145679, 14569, 1479, 149, 235679, 23569, 2379, 239, 345, 3457}
92:9	$0, 0, 0, 0, 0, 0, \frac{4}{1531}\sqrt{15603}e^{13} + \frac{15}{1531}\sqrt{1486}e^{24},$ $\frac{1}{1531}\sqrt{646410}e^{12} + \frac{13}{1531}\sqrt{1486}e^{56}$	$(\frac{478}{1531}, -\frac{504}{1531}, -\frac{265}{1531}, \frac{717}{1531}, -\frac{13}{1531}, -\frac{13}{1531}, \frac{156}{1531}, \frac{213}{1531}, -\frac{26}{1531})$ $+ \frac{1}{1531}\sqrt{875254}e^1 \otimes e_3 + \frac{2}{1531}\sqrt{291999}e^4 \otimes e_9$	{124, 12456, 124567, 1247, 1579, 159}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{68}\sqrt{1221}e^{13} + \frac{1}{68}\sqrt{1221}e^{24}, \frac{1}{68}\sqrt{814}e^{12} + \frac{1}{34}\sqrt{407}e^{56}$	$(\frac{33}{136}, \frac{7}{136}, -\frac{41}{136}, -\frac{15}{136}, \frac{33}{68}, -\frac{13}{68}, \frac{9}{68}, -\frac{1}{17}, \frac{5}{17})$ $+ \frac{1}{34}\sqrt{851}e^5 \otimes e_8 + \frac{1}{68}\sqrt{962}e^1 \otimes e_3$	{126789, 12689, 1478, 148, 2378, 238, 346789, 34689}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{557}\sqrt{5133}e^{13} + \frac{2}{557}\sqrt{609}e^{24},$ $\frac{2}{557}\sqrt{145}e^{12} + \frac{24}{557}\sqrt{29}e^{56}$	$(-\frac{17}{557}, \frac{19}{557}, \frac{60}{557}, \frac{24}{557}, \frac{101}{557}, -\frac{99}{557}, -\frac{75}{557}, \frac{43}{557}, \frac{2}{557})$ $+ \frac{16}{557}\sqrt{87}e^3 \otimes e_9 + \frac{20}{557}\sqrt{58}e^5 \otimes e_8 + \frac{4}{557}\sqrt{870}e^1 \otimes e_7$	{123456, 14689, 24579, 3478}
92:9	$0, 0, 0, 0, 0, 0, \frac{8}{3805}\sqrt{15603}e^{13} + \frac{6}{761}\sqrt{1486}e^{24},$ $\frac{2}{3805}\sqrt{646410}e^{12} + \frac{26}{3805}\sqrt{1486}e^{56}$	$(\frac{956}{3805}, -\frac{1008}{3805}, -\frac{106}{761}, \frac{1434}{3805}, \frac{717}{3805}, -\frac{769}{3805}, \frac{312}{3805}, \frac{426}{3805}, -\frac{52}{3805})$ $+ \frac{1486}{3805}e^5 \otimes e_6 + \frac{2}{3805}\sqrt{875254}e^1 \otimes e_3 + \frac{4}{3805}\sqrt{291999}e^4 \otimes e_9$	{1579, 159, 1679, 169}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{7}\sqrt{13}e^{13} + \frac{1}{21}\sqrt{39}e^{24}, \frac{1}{21}\sqrt{65}e^{12} + \frac{2}{21}\sqrt{26}e^{56}$	$(-\frac{3}{14}, \frac{1}{14}, \frac{10}{21}, \frac{4}{21}, \frac{5}{21}, -\frac{8}{21}, \frac{5}{21}, \frac{11}{42}, -\frac{1}{7})$ $+ \frac{13}{21}e^5 \otimes e_6 + \frac{2}{21}\sqrt{78}e^3 \otimes e_9$	{15789, 1589, 16789, 1689, 2579, 259, 2679, 269}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{2278}e^{13} + \frac{17}{64}e^{24}, \frac{1}{128}\sqrt{1870}e^{12} + \frac{1}{32}\sqrt{51}e^{56}$	$(-\frac{7}{256}, -\frac{1}{256}, \frac{15}{64}, \frac{27}{128}, \frac{15}{128}, -\frac{19}{128}, -\frac{75}{256}, \frac{53}{256}, -\frac{1}{32})$ $+ \frac{17}{64}e^5 \otimes e_6 + \frac{1}{128}\sqrt{3230}e^1 \otimes e_7 + \frac{1}{128}\sqrt{3638}e^3 \otimes e_9$	{1589, 1689, 2579, 2679}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{102}e^{13} + \frac{2}{111}\sqrt{102}e^{24}, \frac{4}{37}\sqrt{13}e^{12} + \frac{4}{111}\sqrt{3}e^{56}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, -\frac{2}{37}, \frac{12}{37}, -\frac{4}{37}, \frac{4}{37})$ $+ \frac{2}{37}\sqrt{42}e^1 \otimes e_3 - \frac{2}{37}\sqrt{42}e^2 \otimes e_4 + \frac{4}{111}\sqrt{93}e^7 \otimes e_9 + \frac{8}{37}e^5 \otimes e_6$	{1257, 1267, 3457, 3467}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{111}\sqrt{102}e^{13} + \frac{2}{111}\sqrt{102}e^{24}, \frac{4}{37}\sqrt{13}e^{12} + \frac{4}{111}\sqrt{3}e^{56}$	$(\frac{2}{37}, \frac{2}{37}, -\frac{6}{37}, -\frac{6}{37}, \frac{6}{37}, -\frac{2}{37}, \frac{12}{37}, -\frac{4}{37}, \frac{4}{37})$ $+ \frac{2}{37}\sqrt{42}e^1 \otimes e_3 + \frac{2}{37}\sqrt{42}e^2 \otimes e_4 + \frac{4}{111}\sqrt{93}e^7 \otimes e_9 + \frac{8}{37}e^5 \otimes e_6$	{1257, 1267, 3457, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{17}e^{13} + \frac{2}{17}e^{24}, \frac{2}{17}\sqrt{10}e^{12} + \frac{2}{17}\sqrt{2}e^{56}$	$(\frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, -\frac{3}{17}, \frac{2}{17}, 0, \frac{6}{17}, -\frac{2}{17}, \frac{2}{17})$ $+ \frac{2}{17}\sqrt{10}e^7 \otimes e_9 + \frac{4}{17}e^5 \otimes e_8 + \frac{6}{17}e^1 \otimes e_3 + \frac{6}{17}e^2 \otimes e_4$	{12567, 1459, 34567}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{17}e^{13} + \frac{2}{17}e^{24}, \frac{2}{17}\sqrt{10}e^{12} + \frac{2}{17}\sqrt{2}e^{56}$	$(\frac{1}{17}, \frac{1}{17}, -\frac{3}{17}, -\frac{3}{17}, \frac{2}{17}, 0, \frac{6}{17}, -\frac{2}{17}, \frac{2}{17})$ $+ \frac{2}{17}\sqrt{10}e^7 \otimes e_9 + \frac{4}{17}e^5 \otimes e_8 + \frac{6}{17}e^1 \otimes e_3 - \frac{6}{17}e^2 \otimes e_4$	{12567, 1459, 34567}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{659}\sqrt{6513}e^{13} + \frac{2}{659}\sqrt{10855}e^{24},$ $\frac{2}{659}\sqrt{26553}e^{12} + \frac{2}{659}\sqrt{13026}e^{56}$	$(\frac{143}{659}, -\frac{149}{659}, \frac{36}{659}, \frac{328}{659}, -\frac{3}{659}, -\frac{3}{659}, -\frac{191}{659}, \frac{179}{659}, -\frac{6}{659})$ $+ \frac{2}{659}\sqrt{44422}e^1 \otimes e_7 + \frac{2}{659}\sqrt{53106}e^4 \otimes e_9$	{1234, 123456, 1359, 235789, 345678, 3478}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{35}\sqrt{182}e^{13} + \frac{1}{35}\sqrt{182}e^{24}, \frac{2}{35}\sqrt{26}e^{12} + \frac{13}{35}\sqrt{2}e^{56}$	$(\frac{1}{35}, \frac{1}{35}, -\frac{3}{35}, -\frac{3}{35}, \frac{11}{35}, -\frac{9}{35}, \frac{3}{7}, -\frac{2}{35}, \frac{2}{35})$ $+ \frac{1}{35}\sqrt{286}e^7 \otimes e_9 + \frac{2}{35}\sqrt{130}e^5 \otimes e_8$	{123459, 12689, 13567, 1478, 34689, 59}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{17}\sqrt{5}e^{13} + \frac{6}{17}\sqrt{5}e^{24}, \frac{6}{17}\sqrt{3}e^{12} + \frac{6}{17}\sqrt{2}e^{56}$	$(\frac{1}{17}, \frac{1}{17}, -\frac{2}{17}, -\frac{2}{17}, \frac{1}{17}, \frac{1}{17}, 1, -\frac{1}{17}, \frac{2}{17})$ $+ \frac{6}{17}\sqrt{14}e^7 \otimes e_8$	{1234579, 12589, 13567, 137, 14568, 148, 34589, 579}
92:9	$0, 0, 0, 0, 0, 0, \frac{28}{3837}\sqrt{1031}e^{13} + \frac{2}{3837}\sqrt{439206}e^{24},$ $\frac{2}{3837}\sqrt{476322}e^{12} + \frac{2}{1279}\sqrt{6186}e^{56}$	$(\frac{432}{1279}, -\frac{196}{1279}, -\frac{766}{3837}, \frac{1118}{3837}, \frac{1385}{3837}, -\frac{677}{3837}, \frac{944}{3837}, \frac{530}{1279}, \frac{236}{1279})$ $+ \frac{2062}{3837}e^5 \otimes e_6 + \frac{2}{3837}\sqrt{1301122}e^1 \otimes e_3 + \frac{4}{3837}\sqrt{320641}e^4 \otimes e_7$	{1245, 1246, 357, 367}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{102}e^{13} + \frac{2}{141}\sqrt{102}e^{24}, \frac{4}{47}\sqrt{34}e^{12} + \frac{2}{141}\sqrt{1122}e^{56}$	$(-\frac{2}{47}, -\frac{2}{47}, \frac{6}{47}, \frac{6}{47}, \frac{15}{47}, -\frac{19}{47}, \frac{30}{47}, \frac{4}{47}, -\frac{4}{47})$ $+ \frac{2}{141}\sqrt{3774}e^7 \otimes e_9 + \frac{34}{47}e^5 \otimes e_6$	{13589, 13689, 1459, 1469}
92:9	$0, 0, 0, 0, 0, 0, \frac{5}{417}\sqrt{682}e^{13} + \frac{5}{1251}\sqrt{12958}e^{24},$ $\frac{20}{1251}\sqrt{341}e^{12} + \frac{110}{1251}\sqrt{31}e^{56}$	$(-\frac{10}{417}, -\frac{140}{1251}, \frac{55}{139}, \frac{605}{1251}, -\frac{85}{1251}, -\frac{85}{1251}, -\frac{280}{1251}, \frac{155}{1251}, -\frac{170}{1251})$ $+ \frac{5}{1251}\sqrt{27094}e^3 \otimes e_7 + \frac{5}{417}\sqrt{4526}e^4 \otimes e_9$	{1234, 123456, 1359, 23589, 34568, 348}
92:9	$0, 0, 0, 0, 0, 0, \frac{10}{3769}\sqrt{4965}e^{13} + \frac{10}{3769}\sqrt{2255}e^{24},$ $\frac{10}{3769}\sqrt{2485}e^{12} + \frac{30}{3769}\sqrt{790}e^{56}$	$(-\frac{205}{3769}, \frac{337}{3769}, \frac{382}{3769}, -\frac{160}{3769}, \frac{295}{3769}, \frac{427}{3769}, \frac{545}{3769}, \frac{177}{3769}, \frac{132}{3769})$ $+ \frac{10}{3769}\sqrt{7790}e^6 \otimes e_8 + \frac{20}{3769}\sqrt{1045}e^5 \otimes e_7 + \frac{20}{3769}\sqrt{1355}e^3 \otimes e_9$	{12589, 1356, 2378, 679}
92:9	$0, 0, 0, 0, 0, 0, \frac{5}{144}\sqrt{57}e^{13} + \frac{5}{144}\sqrt{57}e^{24}, \frac{5}{48}\sqrt{34}e^{12} + \frac{5}{72}\sqrt{15}e^{56}$	$(\frac{23}{96}, -\frac{19}{96}, -\frac{9}{32}, \frac{5}{32}, \frac{1}{48}, \frac{1}{48}, \frac{9}{16}, -\frac{1}{24}, \frac{1}{24})$ $+ \frac{5}{48}\sqrt{42}e^1 \otimes e_3 + \frac{5}{72}\sqrt{102}e^7 \otimes e_9$	{12567, 127, 1459, 2359, 34567, 347}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{103}\sqrt{30}e^{13} + \frac{6}{103}\sqrt{30}e^{24}, \frac{18}{103}\sqrt{2}e^{12} + \frac{6}{103}\sqrt{3}e^{56}$	$(\frac{23}{103}, -\frac{7}{103}, -\frac{31}{103}, -\frac{1}{103}, \frac{35}{103}, -\frac{19}{103}, \frac{46}{103}, -\frac{8}{103}, \frac{16}{103})$ $+ \frac{18}{103}\sqrt{10}e^1 \otimes e_3 + \frac{54}{103}e^5 \otimes e_6 + \frac{6}{103}\sqrt{111}e^7 \otimes e_8$	{14589, 14689, 23589, 23689}
92:9	$0, 0, 0, 0, 0, 0, \frac{9}{422}\sqrt{406}e^{13} + \frac{3}{422}\sqrt{861}e^{24},$ $\frac{3}{211}\sqrt{210}e^{12} + \frac{3}{211}\sqrt{1407}e^{56}$	$(-\frac{123}{844}, \frac{23}{211}, \frac{347}{844}, \frac{33}{211}, \frac{73}{422}, -\frac{177}{844}, -\frac{58}{211}, \frac{56}{211}, -\frac{31}{844})$ $+ \frac{3}{422}\sqrt{6783}e^5 \otimes e_7 + \frac{3}{422}\sqrt{9030}e^3 \otimes e_9$	{12356, 1237, 1589, 16789, 259, 2679, 3568, 378}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{413}\sqrt{6513}e^{13} + \frac{1}{413}\sqrt{10855}e^{24},$ $\frac{1}{413}\sqrt{26553}e^{12} + \frac{1}{413}\sqrt{13026}e^{56}$	$(\frac{143}{826}, -\frac{149}{826}, \frac{18}{413}, \frac{164}{413}, \frac{82}{413}, -\frac{85}{413}, -\frac{191}{826}, \frac{179}{826}, -\frac{3}{413})$ $+ \frac{167}{413}e^5 \otimes e_6 + \frac{1}{413}\sqrt{44422}e^1 \otimes e_7 + \frac{1}{413}\sqrt{53106}e^4 \otimes e_9$	{1359, 1369, 235789, 236789}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{34}e^{13} + \frac{2}{27}\sqrt{34}e^{24}, \frac{2}{27}\sqrt{51}e^{12} + \frac{2}{27}\sqrt{170}e^{56}$	$(\frac{2}{9}, \frac{2}{9}, \frac{1}{9}, \frac{1}{9}, \frac{17}{27}, -\frac{5}{27}, -\frac{17}{27}, \frac{1}{3}, \frac{4}{9})$ $+ \frac{2}{27}\sqrt{374}e^5 \otimes e_7$	{123459, 1234679, 12589, 126789, 1356, 137, 14568, 1478, 34589, 346789, 59, 679}
92:9	$0, 0, 0, 0, 0, 0, \frac{16}{685}\sqrt{78}e^{13} + \frac{48}{685}\sqrt{23}e^{24},$ $\frac{32}{685}\sqrt{13}e^{12} + \frac{16}{685}\sqrt{233}e^{56}$	$(\frac{78}{685}, -\frac{89}{685}, -\frac{10}{137}, \frac{117}{685}, \frac{156}{685}, -\frac{167}{685}, \frac{66}{685}, \frac{28}{685}, -\frac{11}{685})$ $+ \frac{16}{685}\sqrt{258}e^4 \otimes e_9 + \frac{16}{685}\sqrt{323}e^5 \otimes e_8 + \frac{16}{685}\sqrt{38}e^1 \otimes e_3$	{126789, 12689, 1478, 148}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{4229}\sqrt{377274}e^{13} + \frac{12}{4229}\sqrt{8587}e^{24},$ $\frac{2}{4229}\sqrt{1055370}e^{12} + \frac{6}{4229}\sqrt{30470}e^{56}$	$(\frac{930}{4229}, \frac{290}{4229}, -\frac{732}{4229}, -\frac{92}{4229}, \frac{1441}{4229}, -\frac{221}{4229}, -\frac{1372}{4229}, \frac{198}{4229}, \frac{1220}{4229})$ $+ \frac{1662}{4229}e^5 \otimes e_6 + \frac{2}{4229}\sqrt{1218246}e^1 \otimes e_3 + \frac{4}{4229}\sqrt{343203}e^2 \otimes e_7$	{1245, 1246, 357, 367}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{185}\sqrt{2337}e^{13} + \frac{2}{185}\sqrt{533}e^{24}, \frac{2}{185}\sqrt{41}e^{12} + \frac{12}{185}\sqrt{41}e^{56}$	$(-\frac{1}{5}, \frac{7}{185}, \frac{52}{185}, \frac{8}{185}, -\frac{3}{37}, -\frac{3}{37}, \frac{97}{185}, \frac{3}{37}, -\frac{6}{37})$ $+ \frac{4}{185}\sqrt{779}e^7 \otimes e_8 + \frac{4}{185}\sqrt{902}e^3 \otimes e_9$	{1234567, 12347, 14589, 24579, 34568, 348}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:9	$0, 0, 0, 0, 0, 0, \frac{14}{527}\sqrt{861}e^{13} + \frac{2}{527}\sqrt{20951}e^{24},$ $\frac{2}{527}\sqrt{45633}e^{12} + \frac{4}{527}\sqrt{1722}e^{56}$	$(\frac{13}{31}, \frac{1}{527}, -\frac{60}{527}, \frac{160}{527}, \frac{111}{527}, \frac{111}{527}, -\frac{353}{527}, \frac{161}{527}, \frac{222}{527})$ $+ \frac{4}{527}\sqrt{31570}e^1 \otimes e_7$	{1235, 12458, 134569, 1349, 15689, 189, 23456789, 234789, 25679, 279, 3578, 457}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{347}\sqrt{1554}e^{13} + \frac{1}{347}\sqrt{1554}e^{24},$ $\frac{1}{347}\sqrt{26418}e^{12} + \frac{1}{347}\sqrt{24346}e^{56}$	$(\frac{146}{347}, -\frac{9}{347}, -\frac{113}{347}, \frac{42}{347}, \frac{145}{347}, -\frac{8}{347}, -\frac{114}{347}, \frac{33}{347}, \frac{137}{347})$ $+ \frac{1}{347}\sqrt{80290}e^1 \otimes e_3 + \frac{3}{347}\sqrt{8806}e^5 \otimes e_7$	{1256, 127, 1459, 14679, 2359, 23679, 3456, 347}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{111}\sqrt{2278}e^{13} + \frac{34}{111}e^{24}, \frac{1}{111}\sqrt{1870}e^{12} + \frac{4}{111}\sqrt{51}e^{56}$	$(-\frac{7}{222}, -\frac{1}{222}, \frac{10}{37}, \frac{9}{37}, -\frac{2}{111}, -\frac{2}{111}, -\frac{25}{74}, \frac{53}{222}, -\frac{4}{111})$ $+ \frac{1}{111}\sqrt{3230}e^1 \otimes e_7 + \frac{1}{111}\sqrt{3638}e^3 \otimes e_9$	{123, 12356, 1589, 2579, 35678, 378}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{13}\sqrt{5}e^{13} + \frac{3}{13}\sqrt{5}e^{24}, \frac{3}{13}\sqrt{3}e^{12} + \frac{3}{13}\sqrt{2}e^{56}$	$(\frac{1}{26}, \frac{1}{26}, -\frac{1}{13}, -\frac{1}{13}, \frac{5}{13}, -\frac{4}{13}, \frac{17}{26}, -\frac{1}{26}, \frac{1}{13})$ $+ \frac{3}{13}\sqrt{14}e^7 \otimes e_8 + \frac{9}{13}e^5 \otimes e_6$	{1234579, 1234679, 12589, 12689, 34589, 34689, 579, 679}
92:9	$0, 0, 0, 0, 0, 0, \frac{10}{363}\sqrt{57}e^{13} + \frac{10}{363}\sqrt{57}e^{24}, \frac{10}{121}\sqrt{34}e^{12} + \frac{20}{363}\sqrt{15}e^{56}$	$(\frac{23}{121}, -\frac{19}{121}, -\frac{27}{121}, \frac{15}{121}, \frac{27}{121}, -\frac{23}{121}, \frac{54}{121}, -\frac{4}{121}, \frac{4}{121})$ $+ \frac{10}{121}\sqrt{42}e^1 \otimes e_3 + \frac{20}{363}\sqrt{102}e^7 \otimes e_9 + \frac{50}{121}e^5 \otimes e_6$	{1459, 1469, 2359, 2369}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{106}\sqrt{2314}e^{13} + \frac{1}{106}\sqrt{2314}e^{24},$ $\frac{1}{106}\sqrt{2937}e^{12} + \frac{1}{212}\sqrt{534}e^{56}$	$(\frac{77}{424}, \frac{77}{424}, -\frac{101}{424}, -\frac{101}{424}, \frac{15}{53}, \frac{17}{212}, -\frac{29}{212}, -\frac{3}{53}, \frac{77}{212})$ $+ \frac{1}{212}\sqrt{13795}e^1 \otimes e_3 + \frac{1}{212}\sqrt{13795}e^2 \otimes e_4 + \frac{1}{212}\sqrt{7654}e^5 \otimes e_7$	{125, 1267, 14569, 1479, 345, 3467}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{106}\sqrt{2314}e^{13} + \frac{1}{106}\sqrt{2314}e^{24},$ $\frac{1}{106}\sqrt{2937}e^{12} + \frac{1}{212}\sqrt{534}e^{56}$	$(\frac{77}{424}, \frac{77}{424}, -\frac{101}{424}, -\frac{101}{424}, \frac{15}{53}, \frac{17}{212}, -\frac{29}{212}, -\frac{3}{53}, \frac{77}{212})$ $+ \frac{1}{212}\sqrt{13795}e^1 \otimes e_3 - \frac{1}{212}\sqrt{13795}e^2 \otimes e_4 + \frac{1}{212}\sqrt{7654}e^5 \otimes e_7$	{125, 1267, 14569, 1479, 345, 3467}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{13} + \frac{3}{115}\sqrt{133}e^{24}, \frac{2}{23}\sqrt{57}e^{12} + \frac{2}{115}\sqrt{399}e^{56}$	$(\frac{22}{115}, \frac{22}{115}, -\frac{7}{23}, -\frac{7}{23}, \frac{22}{115}, \frac{22}{115}, \frac{8}{115}, -\frac{13}{115}, \frac{44}{115})$ $+ \frac{1}{115}\sqrt{6099}e^1 \otimes e_3 + \frac{1}{115}\sqrt{6099}e^2 \otimes e_4$	{125, 1257, 145679, 14569, 1479, 149, 345, 3457}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{115}\sqrt{133}e^{13} + \frac{3}{115}\sqrt{133}e^{24}, \frac{2}{23}\sqrt{57}e^{12} + \frac{2}{115}\sqrt{399}e^{56}$	$(\frac{22}{115}, \frac{22}{115}, -\frac{7}{23}, -\frac{7}{23}, \frac{22}{115}, \frac{22}{115}, \frac{8}{115}, -\frac{13}{115}, \frac{44}{115})$ $+ \frac{1}{115}\sqrt{6099}e^1 \otimes e_3 - \frac{1}{115}\sqrt{6099}e^2 \otimes e_4$	{125, 1257, 145679, 14569, 1479, 149, 345, 3457}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{159}e^{13} + \frac{1}{33}\sqrt{159}e^{24}, \frac{1}{33}\sqrt{53}e^{12} + \frac{2}{33}\sqrt{53}e^{56}$	$(\frac{3}{22}, \frac{3}{22}, \frac{5}{33}, \frac{5}{33}, \frac{31}{33}, -\frac{2}{3}, \frac{13}{66}, \frac{19}{66}, \frac{3}{11})$ $+ \frac{53}{33}e^5 \otimes e_6$	{13579, 1359, 13679, 1369, 145789, 14589, 146789, 14689}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{113}\sqrt{2337}e^{13} + \frac{1}{113}\sqrt{533}e^{24}, \frac{1}{113}\sqrt{41}e^{12} + \frac{6}{113}\sqrt{41}e^{56}$	$(-\frac{37}{226}, \frac{7}{226}, \frac{26}{113}, \frac{4}{113}, \frac{13}{113}, -\frac{28}{113}, \frac{97}{226}, \frac{15}{226}, -\frac{15}{113})$ $+ \frac{2}{113}\sqrt{779}e^7 \otimes e_8 + \frac{2}{113}\sqrt{902}e^3 \otimes e_9 + \frac{41}{113}e^5 \otimes e_6$	{14589, 14689, 24579, 24679}
92:9	$0, 0, 0, 0, 0, 0, \frac{40}{2911}\sqrt{282}e^{13} + \frac{20}{2911}\sqrt{1498}e^{24},$ $\frac{40}{2911}\sqrt{191}e^{12} + \frac{20}{2911}\sqrt{1874}e^{56}$	$(\frac{70}{2911}, -\frac{115}{2911}, \frac{170}{2911}, \frac{5}{41}, \frac{640}{2911}, -\frac{685}{2911}, -\frac{230}{2911}, \frac{240}{2911}, -\frac{45}{2911})$ $+ \frac{100}{2911}\sqrt{106}e^5 \otimes e_8 + \frac{40}{2911}\sqrt{241}e^3 \otimes e_7 + \frac{40}{2911}\sqrt{426}e^4 \otimes e_9$	{126789, 1478, 24567, 579}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{523}\sqrt{32226}e^{13} + \frac{1}{523}\sqrt{32226}e^{24},$ $\frac{1}{523}\sqrt{36942}e^{12} + \frac{1}{523}\sqrt{58426}e^{56}$	$(\frac{64}{523}, \frac{69}{523}, -\frac{67}{523}, -\frac{72}{523}, \frac{5}{523}, \frac{128}{523}, -\frac{126}{523}, -\frac{3}{523}, \frac{133}{523})$ $+ \frac{10}{523}\sqrt{786}e^6 \otimes e_8 + \frac{1}{523}\sqrt{1310}e^1 \otimes e_3 + \frac{1}{523}\sqrt{46374}e^5 \otimes e_7$	{1234679, 1356, 2456, 679}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{102}e^{13} + \frac{1}{45}\sqrt{102}e^{24}, \frac{2}{15}\sqrt{34}e^{12} + \frac{1}{45}\sqrt{1122}e^{56}$	$(-\frac{1}{15}, -\frac{1}{15}, \frac{1}{5}, \frac{1}{5}, -\frac{1}{15}, -\frac{1}{15}, 1, \frac{2}{15}, -\frac{2}{15})$ $+ \frac{1}{45}\sqrt{3774}e^7 \otimes e_9$	{12345678, 123478, 12567, 127, 13589, 1459, 34567, 347, 5678, 78}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{287}\sqrt{133}e^{13} + \frac{6}{287}\sqrt{133}e^{24}, \frac{20}{287}\sqrt{57}e^{12} + \frac{4}{287}\sqrt{399}e^{56}$	$(\frac{44}{287}, \frac{44}{287}, -\frac{10}{41}, -\frac{10}{41}, \frac{101}{287}, -\frac{13}{287}, \frac{16}{287}, -\frac{26}{287}, \frac{88}{287})$ $+ \frac{114}{287}e^5 \otimes e_6 + \frac{2}{287}\sqrt{6099}e^1 \otimes e_3 - \frac{2}{287}\sqrt{6099}e^2 \otimes e_4$	{125, 1257, 126, 1267, 345, 3457, 346, 3467}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{287}\sqrt{133}e^{13} + \frac{6}{287}\sqrt{133}e^{24}, \frac{20}{287}\sqrt{57}e^{12} + \frac{4}{287}\sqrt{399}e^{56}$	$(\frac{44}{287}, \frac{44}{287}, -\frac{10}{41}, -\frac{10}{41}, \frac{101}{287}, -\frac{13}{287}, \frac{16}{287}, -\frac{26}{287}, \frac{88}{287})$ $+ \frac{114}{287}e^5 \otimes e_6 + \frac{2}{287}\sqrt{6099}e^1 \otimes e_3 + \frac{2}{287}\sqrt{6099}e^2 \otimes e_4$	{125, 1257, 126, 1267, 345, 3457, 346, 3467}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{419}\sqrt{2445}e^{13} + \frac{2}{419}\sqrt{2445}e^{24},$ $\frac{2}{419}\sqrt{16626}e^{12} + \frac{4}{419}\sqrt{815}e^{56}$	$(\frac{169}{419}, -\frac{45}{419}, -\frac{157}{419}, \frac{57}{419}, \frac{225}{419}, -\frac{101}{419}, \frac{42}{419}, \frac{12}{419}, \frac{124}{419})$ $+ \frac{2}{419}\sqrt{34882}e^1 \otimes e_3 + \frac{326}{419}e^5 \otimes e_6$	{125, 1257, 126, 1267, 345, 3457, 346, 3467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{863}\sqrt{8490e^{13}} + \frac{3}{863}\sqrt{7358e^{24}},$ $\frac{3}{863}\sqrt{8490e^{12}} + \frac{1}{863}\sqrt{97918e^{56}}$	$(\frac{206}{863}, -\frac{180}{863}, -\frac{77}{863}, \frac{309}{863}, \frac{127}{863}, -\frac{101}{863}, -\frac{156}{863}, \frac{129}{863}, \frac{26}{863})$ $+ \frac{1}{863}\sqrt{118294e^1} \otimes e_3 + \frac{2}{863}\sqrt{32262e^5} \otimes e_7 + \frac{3}{863}\sqrt{50091e^4} \otimes e_9$	{12456, 1247, 159, 1679}
92:9	$0, 0, 0, 0, 0, 0, \frac{28}{323}\sqrt{6e^{13}} + \frac{48}{323}\sqrt{7e^{24}}, \frac{8}{323}\sqrt{70e^{12}} + \frac{12}{323}\sqrt{70e^{56}}$	$(\frac{55}{323}, \frac{40}{323}, -\frac{3}{17}, -\frac{42}{323}, \frac{110}{323}, -\frac{15}{323}, -\frac{72}{323}, -\frac{2}{323}, \frac{5}{17})$ $+ \frac{20}{323}\sqrt{70e^5} \otimes e_8 + \frac{8}{323}\sqrt{231e^1} \otimes e_3 + \frac{8}{323}\sqrt{357e^2} \otimes e_7$	{128, 146789, 23689, 3478}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{67}\sqrt{29e^{13}} + \frac{3}{67}\sqrt{29e^{24}}, \frac{2}{67}\sqrt{145e^{12}} + \frac{2}{67}\sqrt{87e^{56}}$	$(\frac{11}{67}, \frac{11}{67}, -\frac{18}{67}, -\frac{18}{67}, \frac{22}{67}, 0, \frac{6}{67}, -\frac{7}{67}, \frac{22}{67})$ $+ \frac{1}{67}\sqrt{1131e^1} \otimes e_3 + \frac{1}{67}\sqrt{1131e^2} \otimes e_4 + \frac{2}{67}\sqrt{319e^5} \otimes e_8$	{1278, 128, 146789, 14689, 3478, 348}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{67}\sqrt{29e^{13}} + \frac{3}{67}\sqrt{29e^{24}}, \frac{2}{67}\sqrt{145e^{12}} + \frac{2}{67}\sqrt{87e^{56}}$	$(\frac{11}{67}, \frac{11}{67}, -\frac{18}{67}, -\frac{18}{67}, \frac{22}{67}, 0, \frac{6}{67}, -\frac{7}{67}, \frac{22}{67})$ $+ \frac{1}{67}\sqrt{1131e^1} \otimes e_3 - \frac{1}{67}\sqrt{1131e^2} \otimes e_4 + \frac{2}{67}\sqrt{319e^5} \otimes e_8$	{1278, 128, 146789, 14689, 3478, 348}
92:9	$0, 0, 0, 0, 0, 0, \frac{3}{38}\sqrt{30e^{13}} + \frac{3}{38}\sqrt{30e^{24}}, \frac{9}{38}\sqrt{2e^{12}} + \frac{3}{38}\sqrt{3e^{56}}$	$(\frac{23}{76}, -\frac{7}{76}, -\frac{31}{76}, -\frac{1}{76}, \frac{2}{19}, \frac{2}{19}, \frac{23}{38}, -\frac{2}{19}, \frac{4}{19})$ $+ \frac{3}{38}\sqrt{111e^7} \otimes e_8 + \frac{9}{38}\sqrt{10e^1} \otimes e_3$	{12568, 128, 14589, 23589, 34568, 348}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{29}\sqrt{13e^{13}} + \frac{2}{29}\sqrt{39e^{24}}, \frac{2}{29}\sqrt{65e^{12}} + \frac{4}{29}\sqrt{26e^{56}}$	$(-\frac{9}{29}, \frac{3}{29}, \frac{20}{29}, \frac{8}{29}, -\frac{3}{29}, -\frac{3}{29}, \frac{5}{29}, \frac{11}{29}, -\frac{6}{29})$ $+ \frac{4}{29}\sqrt{78e^3} \otimes e_9$	{123, 12356, 123567, 1237, 15789, 1589, 2579, 259, 35678, 3568, 378, 38}
92:9	$0, 0, 0, 0, 0, 0, \frac{2}{181}\sqrt{2109e^{13}} + \frac{2}{181}\sqrt{1073e^{24}},$ $\frac{2}{181}\sqrt{703e^{12}} + \frac{8}{181}\sqrt{111e^{56}}$	$(\frac{39}{181}, \frac{11}{181}, -\frac{36}{181}, -\frac{8}{181}, \frac{77}{181}, -\frac{27}{181}, -\frac{35}{181}, \frac{3}{181}, \frac{50}{181})$ $+ \frac{4}{181}\sqrt{518e^1} \otimes e_7 + \frac{4}{181}\sqrt{962e^5} \otimes e_8$	{123459, 12689, 1356, 148, 2378, 24567, 346789, 579}
92:9	$0, 0, 0, 0, 0, 0, \frac{8}{781}\sqrt{2001e^{13}} + \frac{4}{781}\sqrt{4321e^{24}},$ $\frac{56}{781}\sqrt{29e^{12}} + \frac{4}{781}\sqrt{6989e^{56}}$	$(-\frac{2}{781}, \frac{125}{781}, \frac{56}{781}, -\frac{1}{11}, \frac{26}{71}, -\frac{163}{781}, -\frac{16}{781}, \frac{54}{781}, \frac{123}{781})$ $+ \frac{4}{781}\sqrt{13021e^5} \otimes e_8 + \frac{4}{781}\sqrt{7366e^3} \otimes e_7$	{123459, 126789, 1356, 1478, 238, 24567, 34689, 579}
92:9	$0, 0, 0, 0, 0, 0, \frac{6}{137}\sqrt{205e^{13}} + \frac{6}{137}\sqrt{205e^{24}},$ $\frac{2}{137}\sqrt{1763e^{12}} + \frac{4}{137}\sqrt{615e^{56}}$	$(\frac{19}{137}, \frac{19}{137}, -\frac{24}{137}, -\frac{24}{137}, \frac{77}{137}, -\frac{39}{137}, \frac{21}{137}, -\frac{5}{137}, \frac{38}{137})$ $+ \frac{4}{137}\sqrt{1189e^5} \otimes e_8$	{1234579, 123459, 126789, 12689, 1356, 13567, 1478, 148, 346789, 34689, 579, 59}
92:9	$0, 0, 0, 0, 0, 0, \frac{220}{677}e^{13} + \frac{40}{677}\sqrt{57e^{24}}, \frac{40}{677}\sqrt{38e^{12}} + \frac{20}{677}\sqrt{197e^{56}}$	$(\frac{121}{677}, -\frac{10}{677}, -\frac{79}{677}, \frac{52}{677}, \frac{242}{677}, -\frac{131}{677}, -\frac{148}{677}, \frac{42}{677}, \frac{111}{677})$ $+ \frac{20}{677}\sqrt{214e^4} \otimes e_7 + \frac{20}{677}\sqrt{373e^5} \otimes e_8 + \frac{40}{677}\sqrt{6e^1} \otimes e_3$	{126789, 148, 2378, 34689}
92:9	$0, 0, 0, 0, 0, 0, \frac{14}{423}\sqrt{106e^{13}} + \frac{14}{423}\sqrt{106e^{24}},$ $\frac{2}{423}\sqrt{5883e^{12}} + \frac{2}{423}\sqrt{9434e^{56}}$	$(\frac{6}{47}, \frac{6}{47}, -\frac{19}{141}, -\frac{19}{141}, \frac{5}{423}, \frac{103}{423}, -\frac{101}{423}, -\frac{1}{141}, \frac{12}{47})$ $+ \frac{2}{423}\sqrt{7526e^5} \otimes e_7 + \frac{8}{423}\sqrt{795e^6} \otimes e_8$	{1234679, 12589, 1356, 1478, 34589, 679}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{1699}\sqrt{377274e^{13}} + \frac{6}{1699}\sqrt{8587e^{24}},$ $\frac{1}{1699}\sqrt{1055370e^{12}} + \frac{3}{1699}\sqrt{30470e^{56}}$	$(\frac{465}{1699}, \frac{145}{1699}, -\frac{366}{1699}, -\frac{46}{1699}, \frac{305}{1699}, \frac{305}{1699}, -\frac{686}{1699}, \frac{99}{1699}, \frac{610}{1699})$ $+ \frac{1}{1699}\sqrt{1218246e^1} \otimes e_3 + \frac{2}{1699}\sqrt{343203e^2} \otimes e_7$	{1245, 15679, 179, 234569, 2349, 357}
92:9	$0, 0, 0, 0, 0, 0, \frac{30}{3277}\sqrt{682e^{13}} + \frac{10}{3277}\sqrt{12958e^{24}},$ $\frac{40}{3277}\sqrt{341e^{12}} + \frac{220}{3277}\sqrt{31e^{56}}$	$(-\frac{60}{3277}, -\frac{280}{3277}, \frac{990}{3277}, \frac{1210}{3277}, \frac{605}{3277}, -\frac{945}{3277}, -\frac{560}{3277}, \frac{930}{3277}, -\frac{340}{3277})$ $+ \frac{10}{3277}\sqrt{27094e^3} \otimes e_7 + \frac{1550}{3277}e^5 \otimes e_6 + \frac{30}{3277}\sqrt{4526e^4} \otimes e_9$	{1359, 1369, 23589, 23689}
92:9	$0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{221e^{13}} + \frac{1}{52}\sqrt{221e^{24}}, \frac{1}{52}\sqrt{34e^{12}} + \frac{1}{26}\sqrt{119e^{56}}$	$(\frac{1}{8}, -\frac{5}{104}, -\frac{21}{104}, -\frac{3}{104}, \frac{1}{4}, -\frac{9}{52}, \frac{21}{52}, -\frac{1}{13}, \frac{1}{13})$ $+ \frac{1}{13}\sqrt{34e^7} \otimes e_9 + \frac{1}{26}\sqrt{187e^5} \otimes e_8 + \frac{3}{52}\sqrt{34e^1} \otimes e_3$	{1278, 14689, 23689, 3478}
92:9	$0, 0, 0, 0, 0, 0, \frac{44}{835}\sqrt{2e^{13}} + \frac{22}{167}\sqrt{6e^{24}}, \frac{66}{835}\sqrt{10e^{12}} + \frac{22}{835}\sqrt{86e^{56}}$	$(\frac{132}{835}, -\frac{176}{835}, -\frac{22}{167}, \frac{198}{835}, \frac{99}{835}, -\frac{143}{835}, \frac{264}{835}, \frac{22}{835}, -\frac{44}{835})$ $+ \frac{22}{835}\sqrt{166e^1} \otimes e_3 + \frac{242}{835}e^5 \otimes e_6 + \frac{44}{167}\sqrt{2e^7} \otimes e_8 + \frac{44}{835}\sqrt{71e^4} \otimes e_9$	{23589, 23689}
92:9	$0, 0, 0, 0, 0, 0, \frac{18}{743}\sqrt{213e^{13}} + \frac{6}{743}\sqrt{781e^{24}},$ $\frac{2}{743}\sqrt{6035e^{12}} + \frac{4}{743}\sqrt{4899e^{56}}$	$(-\frac{83}{743}, \frac{61}{743}, \frac{120}{743}, -\frac{24}{743}, \frac{179}{743}, -\frac{201}{743}, \frac{75}{743}, \frac{37}{743}, -\frac{22}{743})$ $+ \frac{24}{743}\sqrt{142e^3} \otimes e_9 + \frac{4}{743}\sqrt{6745e^5} \otimes e_8$	{126789, 12689, 1356, 13567, 2378, 238, 579, 59}
92:9	$0, 0, 0, 0, 0, 0, \frac{7}{407}\sqrt{861e^{13}} + \frac{1}{407}\sqrt{20951e^{24}},$ $\frac{1}{407}\sqrt{45633e^{12}} + \frac{2}{407}\sqrt{1722e^{56}}$	$(\frac{221}{814}, \frac{1}{814}, -\frac{30}{407}, \frac{80}{407}, \frac{199}{407}, -\frac{8}{37}, -\frac{353}{814}, \frac{161}{814}, \frac{3}{11})$ $+ \frac{287}{407}e^5 \otimes e_6 + \frac{2}{407}\sqrt{31570e^1} \otimes e_7$	{1235, 1236, 12458, 12468, 3578, 3678, 457, 467}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:9	$0, 0, 0, 0, 0, 0, 0, \frac{22}{357}\sqrt{2}e^{13} + \frac{55}{357}\sqrt{6}e^{24}, \frac{11}{119}\sqrt{10}e^{12} + \frac{11}{357}\sqrt{86}e^{56}$	$(\frac{22}{119}, -\frac{88}{357}, -\frac{55}{357}, \frac{33}{119}, -\frac{11}{357}, -\frac{11}{357}, \frac{44}{119}, \frac{11}{357}, -\frac{22}{357})$ $+ \frac{110}{357}\sqrt{2}e^7 \otimes e_8 + \frac{11}{357}\sqrt{166}e^1 \otimes e_3 + \frac{22}{357}\sqrt{71}e^4 \otimes e_9$	{23589, 34568, 348}
92:9	$0, 0, 0, 0, 0, 0, 0, \frac{3}{434}\sqrt{7414}e^{13} + \frac{1}{217}\sqrt{1685}e^{24},$ $\frac{1}{434}\sqrt{14491}e^{12} + \frac{1}{434}\sqrt{15502}e^{56}$	$(-\frac{15}{217}, \frac{79}{434}, \frac{333}{868}, \frac{115}{868}, \frac{193}{434}, -\frac{72}{157}, -\frac{11}{157}, \frac{39}{124}, \frac{7}{62})$ $+ \frac{1}{217}\sqrt{36733}e^3 \otimes e_7 + \frac{337}{434}e^5 \otimes e_6$	{12359, 12369, 1245789, 1246789, 3589, 3689, 4579, 4679}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{13} + \frac{2}{157}\sqrt{267}e^{24}, \frac{4}{157}\sqrt{890}e^{15} + \frac{2}{157}\sqrt{267}e^{26}$	$(\frac{77}{157}, \frac{34}{157}, -\frac{12}{157}, \frac{31}{157}, -\frac{12}{157}, \frac{31}{157}, -\frac{101}{157}, \frac{65}{157}, \frac{65}{157})$ $+ \frac{2}{157}\sqrt{11481}e^1 \otimes e_7$	{1235, 12369, 124689, 13456, 1349, 189, 23456789, 23478, 27, 35789, 3678, 467}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{3}{155}\sqrt{42}e^{13} + \frac{3}{155}\sqrt{266}e^{24}, \frac{3}{155}\sqrt{574}e^{15} + \frac{3}{155}\sqrt{42}e^{26}$	$(\frac{27}{155}, -\frac{3}{155}, -\frac{36}{155}, -\frac{6}{155}, \frac{24}{155}, \frac{54}{155}, -\frac{39}{155}, -\frac{9}{155}, \frac{51}{155})$ $+ \frac{6}{155}\sqrt{133}e^6 \otimes e_8 + \frac{6}{155}\sqrt{182}e^1 \otimes e_3 + \frac{6}{155}\sqrt{182}e^5 \otimes e_7$	{124679, 156, 234569, 367}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{4}{157}\sqrt{890}e^{13} + \frac{4}{157}\sqrt{890}e^{24}, \frac{2}{157}\sqrt{267}e^{15} + \frac{2}{157}\sqrt{267}e^{26}$	$(-\frac{9}{157}, -\frac{9}{157}, -\frac{12}{157}, -\frac{12}{157}, \frac{31}{157}, \frac{31}{157}, 1, -\frac{21}{157}, \frac{22}{157})$ $+ \frac{2}{157}\sqrt{11481}e^7 \otimes e_8$	{12345679, 12347, 125689, 128, 13579, 1367, 14589, 1468, 34568, 3489, 567, 79}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{2353}\sqrt{123518}e^{13} + \frac{2}{2353}\sqrt{187322}e^{24},$ $\frac{2}{2353}\sqrt{79755}e^{15} + \frac{6}{2353}\sqrt{5317}e^{26}$	$(\frac{21}{181}, -\frac{365}{2353}, -\frac{92}{2353}, \frac{42}{181}, -\frac{545}{2353}, \frac{93}{2353}, \frac{999}{2353}, \frac{1}{13}, -\frac{272}{2353})$ $+ \frac{2}{2353}\sqrt{322701}e^7 \otimes e_8 + \frac{2}{2353}\sqrt{324746}e^4 \otimes e_9 + \frac{8}{2353}\sqrt{14315}e^1 \otimes e_5$	{1289, 13679, 23589, 5679}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{38}\sqrt{470}e^{13} + \frac{1}{38}\sqrt{517}e^{24}, \frac{2}{19}\sqrt{94}e^{15} + \frac{1}{38}\sqrt{470}e^{26}$	$(\frac{27}{38}, \frac{3}{19}, -\frac{10}{19}, \frac{1}{38}, -\frac{1}{4}, \frac{23}{76}, \frac{13}{76}, \frac{7}{38}, \frac{35}{76})$ $+ \frac{3}{38}\sqrt{329}e^1 \otimes e_3$	{1245, 12457, 124679, 12469, 156, 1567, 179, 19, 234, 2345679, 234569, 2347, 3579, 359, 36, 367}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1001}\sqrt{127246}e^{13} + \frac{1}{1001}\sqrt{23542}e^{24},$ $\frac{1}{1001}\sqrt{59898}e^{15} + \frac{1}{1001}\sqrt{70030}e^{26}$	$(\frac{11}{91}, -\frac{97}{1001}, -\frac{80}{1001}, \frac{138}{1001}, -\frac{4}{143}, \frac{190}{1001}, -\frac{229}{1001}, \frac{41}{1001}, \frac{93}{1001})$ $+ \frac{24}{1001}\sqrt{149}e^1 \otimes e_5 + \frac{24}{1001}\sqrt{149}e^3 \otimes e_7 + \frac{2}{1001}\sqrt{27267}e^6 \otimes e_8$	{1236, 178, 2567, 358}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{53}e^{13} + \frac{1}{71}\sqrt{53}e^{24}, \frac{2}{71}\sqrt{265}e^{15} + \frac{2}{71}\sqrt{265}e^{26}$	$(\frac{30}{71}, \frac{30}{71}, -\frac{23}{71}, -\frac{23}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{8}{71}, \frac{7}{71}, \frac{28}{71})$ $+ \frac{3}{71}\sqrt{371}e^1 \otimes e_3 + \frac{3}{71}\sqrt{371}e^2 \otimes e_4$	{1256, 12567, 1279, 129, 145, 1457, 14679, 1469, 34, 345679, 34569, 347}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{53}e^{13} + \frac{1}{71}\sqrt{53}e^{24}, \frac{2}{71}\sqrt{265}e^{15} + \frac{2}{71}\sqrt{265}e^{26}$	$(\frac{30}{71}, \frac{30}{71}, -\frac{23}{71}, -\frac{23}{71}, -\frac{2}{71}, -\frac{2}{71}, \frac{8}{71}, \frac{7}{71}, \frac{28}{71})$ $+ \frac{3}{71}\sqrt{371}e^1 \otimes e_3 - \frac{3}{71}\sqrt{371}e^2 \otimes e_4$	{1256, 12567, 1279, 129, 145, 1457, 14679, 1469, 34, 345679, 34569, 347}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{10}e^{13} + \frac{15}{79}\sqrt{2}e^{24}, \frac{6}{79}\sqrt{10}e^{15} + \frac{15}{79}\sqrt{2}e^{26}$	$(\frac{6}{79}, -\frac{18}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{12}{79}, \frac{3}{79}, \frac{3}{79})$ $+ \frac{3}{79}\sqrt{106}e^4 \otimes e_9 - \frac{3}{79}\sqrt{106}e^6 \otimes e_8 + \frac{6}{79}\sqrt{19}e^1 \otimes e_7$	{123456, 1289, 1369, 235789, 2467, 3478}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{6}{79}\sqrt{10}e^{13} + \frac{15}{79}\sqrt{2}e^{24}, \frac{6}{79}\sqrt{10}e^{15} + \frac{15}{79}\sqrt{2}e^{26}$	$(\frac{6}{79}, -\frac{18}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{3}{79}, \frac{21}{79}, -\frac{12}{79}, \frac{3}{79}, \frac{3}{79})$ $+ \frac{3}{79}\sqrt{106}e^4 \otimes e_9 + \frac{3}{79}\sqrt{106}e^6 \otimes e_8 + \frac{6}{79}\sqrt{19}e^1 \otimes e_7$	{123456, 1289, 1369, 235789, 2467, 3478}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{13} + \frac{1}{37}\sqrt{78}e^{24}, \frac{1}{37}\sqrt{221}e^{15} + \frac{1}{37}\sqrt{78}e^{26}$	$(-\frac{13}{37}, -\frac{2}{37}, \frac{12}{37}, \frac{1}{37}, \frac{12}{37}, \frac{1}{37}, \frac{4}{37}, \frac{1}{37}, -\frac{1}{37}, -\frac{1}{37})$ $+ \frac{1}{37}\sqrt{429}e^3 \otimes e_9 - \frac{1}{37}\sqrt{429}e^5 \otimes e_8$	{123456, 1234567, 12789, 1289, 135, 1357, 146789, 14689, 23678, 2368, 3478, 348}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{37}\sqrt{221}e^{13} + \frac{1}{37}\sqrt{78}e^{24}, \frac{1}{37}\sqrt{221}e^{15} + \frac{1}{37}\sqrt{78}e^{26}$	$(-\frac{13}{37}, -\frac{2}{37}, \frac{12}{37}, \frac{1}{37}, \frac{12}{37}, \frac{1}{37}, \frac{4}{37}, \frac{1}{37}, -\frac{1}{37}, -\frac{1}{37})$ $+ \frac{1}{37}\sqrt{429}e^3 \otimes e_9 + \frac{1}{37}\sqrt{429}e^5 \otimes e_8$	{123456, 1234567, 12789, 1289, 135, 1357, 146789, 14689, 23678, 2368, 3478, 348}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{371}\sqrt{1490}e^{13} + \frac{9}{371}\sqrt{298}e^{24},$ $\frac{3}{371}\sqrt{894}e^{15} + \frac{2}{371}\sqrt{1490}e^{26}$	$(\frac{74}{371}, -\frac{68}{371}, -\frac{75}{371}, \frac{67}{371}, \frac{6}{371}, \frac{148}{371}, -\frac{82}{371}, -\frac{1}{371}, \frac{80}{371})$ $+ \frac{1}{371}\sqrt{34270}e^4 \otimes e_7 + \frac{3}{371}\sqrt{4470}e^6 \otimes e_8 + \frac{4}{371}\sqrt{1639}e^1 \otimes e_3$	{12789, 1458, 235789, 348}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{7}{379}\sqrt{22}e^{13} + \frac{2}{379}\sqrt{4774}e^{24}, \frac{2}{379}\sqrt{4774}e^{15} + \frac{7}{379}\sqrt{66}e^{26}$	$(-\frac{84}{379}, -\frac{70}{379}, \frac{75}{379}, \frac{61}{379}, \frac{68}{379}, \frac{54}{379}, -\frac{2}{379}, -\frac{9}{379}, -\frac{16}{379})$ $+ \frac{1}{379}\sqrt{24486}e^5 \otimes e_8 + \frac{4}{379}\sqrt{1463}e^4 \otimes e_9 + \frac{7}{379}\sqrt{110}e^3 \otimes e_7$	{123689, 12457, 359, 4678}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{10}{1529}\sqrt{4910}e^{13} + \frac{12}{1529}\sqrt{1473}e^{24},$ $\frac{7}{1529}\sqrt{4910}e^{15} + \frac{14}{1529}\sqrt{1473}e^{26}$	$(\frac{19}{1529}, \frac{68}{1529}, \frac{411}{1529}, \frac{362}{1529}, -\frac{9}{139}, -\frac{148}{1529}, -\frac{472}{1529}, \frac{430}{1529}, -\frac{80}{1529})$ $+ \frac{2}{1529}\sqrt{151719}e^1 \otimes e_7 + \frac{3}{1529}\sqrt{83470}e^3 \otimes e_9$	{12356, 12489, 1345, 1689, 234678, 2579, 378, 45679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{3}{307}\sqrt{935}e^{13} + \frac{3}{307}\sqrt{935}e^{24}, \frac{6}{307}\sqrt{187}e^{15} + \frac{6}{307}\sqrt{187}e^{26}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{6}{307}, \frac{6}{307}, \frac{132}{307}, -\frac{21}{307}, \frac{72}{307})$ $+ \frac{12}{307}\sqrt{221}e^7 \otimes e_8 + \frac{15}{307}\sqrt{119}e^1 \otimes e_3 - \frac{15}{307}\sqrt{119}e^2 \otimes e_4$	{12568, 1289, 1458, 14689, 345689, 348}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{3}{307}\sqrt{935}e^{13} + \frac{3}{307}\sqrt{935}e^{24}, \frac{6}{307}\sqrt{187}e^{15} + \frac{6}{307}\sqrt{187}e^{26}$	$(\frac{66}{307}, \frac{66}{307}, -\frac{87}{307}, -\frac{87}{307}, \frac{6}{307}, \frac{6}{307}, \frac{132}{307}, -\frac{21}{307}, \frac{72}{307})$ $+ \frac{12}{307}\sqrt{221}e^7 \otimes e_8 + \frac{15}{307}\sqrt{119}e^1 \otimes e_3 + \frac{15}{307}\sqrt{119}e^2 \otimes e_4$	{12568, 1289, 1458, 14689, 345689, 348}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{28}{2911}\sqrt{166}e^{13} + \frac{28}{2911}\sqrt{1618}e^{24},$ $\frac{56}{2911}\sqrt{430}e^{15} + \frac{28}{2911}\sqrt{510}e^{26}$	$(\frac{280}{2911}, \frac{350}{2911}, -\frac{504}{2911}, \frac{14}{2911}, \frac{560}{2911}, \frac{490}{2911}, -\frac{434}{2911}, -\frac{224}{2911}, \frac{840}{2911})$ $+ \frac{28}{2911}\sqrt{1338}e^2 \otimes e_7 + \frac{28}{2911}\sqrt{2370}e^5 \otimes e_8 + \frac{56}{2911}\sqrt{411}e^1 \otimes e_3$	{1245, 1567, 234569, 3579}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{39}e^{13} + \frac{1}{27}\sqrt{6}e^{24}, \frac{1}{27}\sqrt{39}e^{15} + \frac{1}{27}\sqrt{6}e^{26}$	$(-\frac{1}{9}, 0, \frac{4}{27}, \frac{1}{27}, \frac{4}{27}, \frac{1}{27}, -\frac{2}{9}, \frac{1}{27}, \frac{1}{27})$ $+ \frac{1}{27}\sqrt{51}e^3 \otimes e_9 - \frac{1}{27}\sqrt{51}e^5 \otimes e_8 + \frac{4}{27}\sqrt{3}e^1 \otimes e_7$	{123456, 1289, 135, 14689, 23678, 3478}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{27}\sqrt{39}e^{13} + \frac{1}{27}\sqrt{6}e^{24}, \frac{1}{27}\sqrt{39}e^{15} + \frac{1}{27}\sqrt{6}e^{26}$	$(-\frac{1}{9}, 0, \frac{4}{27}, \frac{1}{27}, \frac{4}{27}, \frac{1}{27}, -\frac{2}{9}, \frac{1}{27}, \frac{1}{27})$ $+ \frac{1}{27}\sqrt{51}e^3 \otimes e_9 + \frac{1}{27}\sqrt{51}e^5 \otimes e_8 + \frac{4}{27}\sqrt{3}e^1 \otimes e_7$	{123456, 1289, 135, 14689, 23678, 3478}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{6}e^{13} + \frac{1}{15}\sqrt{30}e^{24}, \frac{1}{15}\sqrt{30}e^{15} + \frac{1}{5}\sqrt{2}e^{26}$	$(\frac{1}{15}, \frac{1}{5}, -\frac{2}{15}, -\frac{4}{15}, \frac{2}{15}, 0, \frac{1}{15}, -\frac{1}{15}, \frac{1}{5})$ $+ \frac{2}{15}\sqrt{6}e^1 \otimes e_3 + \frac{2}{15}\sqrt{6}e^2 \otimes e_6 + \frac{2}{5}e^5 \otimes e_8$	{1245, 12457, 156, 1567}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{29458}e^{13} + \frac{2}{631}\sqrt{858}e^{24},$ $\frac{2}{631}\sqrt{2717}e^{15} + \frac{10}{631}\sqrt{715}e^{26}$	$(-\frac{155}{631}, -\frac{49}{631}, \frac{182}{631}, \frac{76}{631}, \frac{51}{631}, -\frac{55}{631}, \frac{313}{631}, \frac{27}{631}, -\frac{104}{631})$ $+ \frac{18}{631}\sqrt{429}e^7 \otimes e_8 + \frac{2}{631}\sqrt{45474}e^3 \otimes e_9$	{123567, 12489, 13457, 1689, 23468, 2579, 38, 45679}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{7498}e^{13} + \frac{10}{247}\sqrt{163}e^{24},$ $\frac{1}{247}\sqrt{15322}e^{15} + \frac{1}{247}\sqrt{4890}e^{26}$	$(\frac{109}{247}, \frac{77}{247}, -\frac{54}{247}, -\frac{22}{247}, -\frac{1}{13}, \frac{1}{19}, -\frac{86}{247}, \frac{55}{247}, \frac{90}{247})$ $+ \frac{1}{247}\sqrt{34230}e^1 \otimes e_3 + \frac{2}{247}\sqrt{9291}e^2 \otimes e_7$	{12456, 1249, 157, 1679, 23459, 2346, 35679, 37}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{28}{2911}\sqrt{510}e^{13} + \frac{28}{2911}\sqrt{1618}e^{24},$ $\frac{56}{2911}\sqrt{430}e^{15} + \frac{28}{2911}\sqrt{166}e^{26}$	$(\frac{452}{2911}, -\frac{491}{2911}, -\frac{332}{2911}, \frac{611}{2911}, -\frac{625}{2911}, \frac{318}{2911}, \frac{904}{2911}, \frac{120}{2911}, -\frac{173}{2911})$ $+ \frac{28}{2911}\sqrt{1338}e^7 \otimes e_8 + \frac{28}{2911}\sqrt{2370}e^4 \otimes e_9 + \frac{56}{2911}\sqrt{411}e^1 \otimes e_3$	{12457, 179, 2347, 3579}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{247}\sqrt{4890}e^{13} + \frac{10}{247}\sqrt{163}e^{24},$ $\frac{1}{247}\sqrt{15322}e^{15} + \frac{1}{247}\sqrt{7498}e^{26}$	$(\frac{71}{247}, \frac{1}{247}, -\frac{92}{247}, -\frac{22}{247}, -\frac{1}{13}, \frac{51}{247}, \frac{142}{247}, -\frac{21}{247}, \frac{4}{19})$ $+ \frac{1}{247}\sqrt{34230}e^1 \otimes e_3 + \frac{2}{247}\sqrt{9291}e^7 \otimes e_8$	{1258, 12689, 14568, 1489, 235689, 238, 34589, 3468}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{10}{473}\sqrt{213}e^{13} + \frac{4}{473}\sqrt{1207}e^{24},$ $\frac{10}{473}\sqrt{355}e^{15} + \frac{8}{473}\sqrt{142}e^{26}$	$(\frac{13}{473}, \frac{61}{473}, -\frac{3}{43}, -\frac{81}{473}, \frac{122}{473}, \frac{74}{473}, -\frac{3}{11}, -\frac{20}{473}, \frac{135}{473})$ $+ \frac{2}{473}\sqrt{14555}e^5 \otimes e_8 + \frac{2}{473}\sqrt{3905}e^2 \otimes e_4 + \frac{6}{473}\sqrt{1349}e^1 \otimes e_7$	{12689, 1489, 2378, 34678}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{662302}e^{13} + \frac{1}{1475}\sqrt{40774}e^{24},$ $\frac{1}{1475}\sqrt{320682}e^{15} + \frac{1}{1475}\sqrt{450718}e^{26}$	$(-\frac{173}{1475}, -\frac{47}{295}, \frac{112}{1475}, \frac{174}{1475}, \frac{428}{1475}, \frac{98}{295}, -\frac{439}{1475}, -\frac{61}{1475}, \frac{51}{295})$ $+ \frac{24}{1475}\sqrt{1102}e^3 \otimes e_7 + \frac{2}{1475}\sqrt{209931}e^6 \otimes e_8$	{1236, 1245789, 134569, 178, 23489, 2567, 358, 4679}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{31}{6805}\sqrt{874}e^{13} + \frac{31}{6805}\sqrt{3490}e^{24},$ $\frac{31}{1361}\sqrt{178}e^{15} + \frac{62}{6805}\sqrt{393}e^{26}$	$(\frac{217}{6805}, \frac{806}{6805}, -\frac{744}{6805}, -\frac{1333}{6805}, \frac{434}{6805}, -\frac{31}{1361}, \frac{1612}{6805}, -\frac{527}{6805}, \frac{651}{6805})$ $+ \frac{124}{1361}\sqrt{6}e^7 \otimes e_9 + \frac{31}{6805}\sqrt{2706}e^2 \otimes e_6 + \frac{31}{6805}\sqrt{4494}e^5 \otimes e_8 + \frac{93}{6805}\sqrt{354}e^1 \otimes e_3$	{12457, 1567}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{3886}e^{13} + \frac{1}{79}\sqrt{2010}e^{24}, \frac{1}{79}\sqrt{938}e^{15} + \frac{1}{79}\sqrt{3886}e^{26}$	$(-\frac{23}{79}, -\frac{1}{79}, \frac{50}{79}, \frac{28}{79}, \frac{6}{79}, -\frac{16}{79}, \frac{13}{79}, \frac{27}{79}, -\frac{17}{79})$ $+ \frac{2}{79}\sqrt{2211}e^3 \otimes e_9$	{12356, 123567, 124789, 12489, 1345, 13457, 16789, 1689, 234678, 23468, 2579, 259, 378, 38, 45679, 4569}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1067}\sqrt{995}e^{13} + \frac{4}{1067}\sqrt{15522}e^{24},$ $\frac{2}{1067}\sqrt{34626}e^{15} + \frac{6}{1067}\sqrt{2985}e^{26}$	$(\frac{213}{1067}, \frac{259}{1067}, -\frac{185}{1067}, -\frac{21}{97}, -\frac{93}{1067}, -\frac{139}{1067}, \frac{426}{1067}, \frac{28}{1067}, \frac{120}{1067})$ $+ \frac{2}{1067}\sqrt{56914}e^1 \otimes e_3 + \frac{2}{1067}\sqrt{68655}e^7 \otimes e_8 + \frac{2}{1067}\sqrt{70645}e^2 \otimes e_6$	{12457, 1567, 2347, 367}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{13} + \frac{3}{31}\sqrt{38}e^{24}, \frac{3}{31}\sqrt{38}e^{15} + \frac{1}{31}\sqrt{190}e^{26}$	$(\frac{13}{31}, -\frac{1}{31}, -\frac{6}{31}, \frac{8}{31}, -\frac{6}{31}, \frac{8}{31}, -\frac{11}{31}, \frac{7}{31}, \frac{7}{31})$ $+ \frac{2}{31}\sqrt{133}e^1 \otimes e_3 + \frac{2}{31}\sqrt{133}e^4 \otimes e_7$	{1245, 12469, 1567, 179, 234, 234569, 3579, 367}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{97}\sqrt{1554}e^{13} + \frac{7}{97}\sqrt{6}e^{24}, \frac{7}{97}\sqrt{6}e^{15} + \frac{1}{97}\sqrt{1554}e^{26}$	$(-\frac{21}{97}, -\frac{21}{97}, \frac{16}{97}, \frac{16}{97}, \frac{16}{97}, \frac{16}{97}, \frac{9}{97}, -\frac{5}{97}, -\frac{5}{97})$ $+ \frac{2}{97}\sqrt{462}e^3 \otimes e_9 + \frac{2}{97}\sqrt{462}e^6 \otimes e_8$	{1236, 12367, 1245789, 124589, 3578, 358}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{631}\sqrt{858}e^{13} + \frac{10}{631}\sqrt{715}e^{24},$ $\frac{2}{631}\sqrt{29458}e^{15} + \frac{2}{631}\sqrt{2717}e^{26}$	$(\frac{113}{631}, -\frac{74}{631}, \frac{76}{631}, \frac{263}{631}, -\frac{136}{631}, \frac{51}{631}, -\frac{173}{631}, \frac{189}{631}, -\frac{23}{631})$ $+ \frac{18}{631}\sqrt{429}e^1 \otimes e_7 + \frac{2}{631}\sqrt{45474}e^4 \otimes e_9$	{12389, 12456, 13458, 169, 23467, 25789, 35679, 478}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{63}{365}\sqrt{2}e^{13} + \frac{6}{365}\sqrt{57}e^{24}, \frac{6}{365}\sqrt{57}e^{15} + \frac{6}{365}\sqrt{177}e^{26}$	$(\frac{2}{365}, -\frac{56}{365}, \frac{4}{365}, \frac{62}{365}, -\frac{5}{73}, \frac{33}{365}, \frac{24}{365}, \frac{6}{365}, -\frac{23}{365})$ $+ \frac{3}{365}\sqrt{762}e^3 \otimes e_9 + \frac{3}{365}\sqrt{762}e^6 \otimes e_8 + \frac{9}{365}\sqrt{58}e^1 \otimes e_5$	{1236, 12367, 3578, 358}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{30}e^{13} + \frac{1}{5}\sqrt{2}e^{24}, \frac{1}{15}\sqrt{6}e^{15} + \frac{1}{15}\sqrt{30}e^{26}$	$(\frac{1}{15}, -\frac{1}{15}, \frac{2}{15}, \frac{4}{15}, -\frac{2}{15}, 0, -\frac{1}{5}, \frac{1}{5}, -\frac{1}{15})$ $+ \frac{2}{15}\sqrt{6}e^1 \otimes e_5 + \frac{2}{15}\sqrt{6}e^6 \otimes e_7 + \frac{2}{5}e^3 \otimes e_9$	{1236, 1347, 234568, 3578}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{71}\sqrt{265}e^{13} + \frac{2}{71}\sqrt{265}e^{24}, \frac{1}{71}\sqrt{53}e^{15} + \frac{1}{71}\sqrt{53}e^{26}$	$(\frac{30}{71}, -\frac{3}{142}, -\frac{2}{71}, \frac{59}{142}, -\frac{23}{71}, \frac{17}{142}, -\frac{47}{142}, \frac{28}{71}, \frac{7}{71})$ $+ \frac{3}{71}\sqrt{371}e^1 \otimes e_5 + \frac{1}{71}\sqrt{371}e^4 \otimes e_7$	{1234, 1278, 1367, 1468, 23578, 245, 34568, 567}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{6}{197}\sqrt{22}e^{13} + \frac{6}{197}\sqrt{22}e^{24}, \frac{12}{197}\sqrt{37}e^{15} + \frac{12}{197}\sqrt{37}e^{26}$	$(\frac{38}{197}, \frac{38}{197}, -\frac{34}{197}, -\frac{34}{197}, -\frac{22}{197}, -\frac{22}{197}, \frac{88}{197}, \frac{4}{197}, \frac{16}{197})$ $+ \frac{12}{197}\sqrt{73}e^7 \otimes e_9 + \frac{6}{197}\sqrt{218}e^1 \otimes e_3 + \frac{6}{197}\sqrt{218}e^2 \otimes e_4$	{12567, 129, 1457, 1469, 34569, 347}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{6}{197}\sqrt{22}e^{13} + \frac{6}{197}\sqrt{22}e^{24}, \frac{12}{197}\sqrt{37}e^{15} + \frac{12}{197}\sqrt{37}e^{26}$	$(\frac{38}{197}, \frac{38}{197}, -\frac{34}{197}, -\frac{34}{197}, -\frac{22}{197}, -\frac{22}{197}, \frac{88}{197}, \frac{4}{197}, \frac{16}{197})$ $+ \frac{12}{197}\sqrt{73}e^7 \otimes e_9 + \frac{6}{197}\sqrt{218}e^1 \otimes e_3 - \frac{6}{197}\sqrt{218}e^2 \otimes e_4$	{12567, 129, 1457, 1469, 34569, 347}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{4}{3299}\sqrt{45591}e^{13} + \frac{4}{3299}\sqrt{10023}e^{24},$ $\frac{28}{3299}\sqrt{39}e^{15} + \frac{4}{3299}\sqrt{35646}e^{26}$	$(-\frac{210}{3299}, -\frac{414}{3299}, \frac{296}{3299}, \frac{500}{3299}, \frac{194}{3299}, \frac{398}{3299}, -\frac{522}{3299}, \frac{86}{3299}, -\frac{16}{3299})$ $+ \frac{12}{3299}\sqrt{3315}e^1 \otimes e_7 + \frac{4}{3299}\sqrt{41691}e^6 \otimes e_8 + \frac{52}{3299}\sqrt{282}e^3 \otimes e_9$	{12356, 12489, 378, 45679}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{275}\sqrt{291}e^{13} + \frac{1}{25}\sqrt{97}e^{24}, \frac{2}{275}\sqrt{4462}e^{15} + \frac{8}{275}\sqrt{97}e^{26}$	$(\frac{28}{275}, -\frac{9}{550}, -\frac{69}{275}, -\frac{73}{550}, \frac{56}{275}, \frac{177}{550}, -\frac{17}{275}, -\frac{41}{275}, \frac{84}{275})$ $+ \frac{1}{275}\sqrt{6305}e^6 \otimes e_7 + \frac{2}{275}\sqrt{6014}e^5 \otimes e_8 + \frac{3}{275}\sqrt{2037}e^1 \otimes e_3$	{12457, 156, 234569, 3579}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{3}{674}\sqrt{4117}e^{13} + \frac{24}{337}\sqrt{23}e^{24},$ $\frac{3}{674}\sqrt{8970}e^{15} + \frac{15}{337}\sqrt{23}e^{26}$	$(\frac{75}{337}, -\frac{247}{1348}, -\frac{57}{674}, \frac{433}{1348}, -\frac{281}{1348}, \frac{133}{674}, -\frac{37}{337}, \frac{93}{674}, \frac{19}{1348})$ $+ \frac{3}{337}\sqrt{3335}e^4 \otimes e_9 + \frac{3}{674}\sqrt{5911}e^6 \otimes e_7 + \frac{3}{674}\sqrt{9246}e^1 \otimes e_3$	{12456, 169, 2346, 3569}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{4334}e^{13} + \frac{1}{313}\sqrt{21670}e^{24},$ $\frac{1}{313}\sqrt{21670}e^{15} + \frac{1}{313}\sqrt{13002}e^{26}$	$(\frac{77}{313}, -\frac{49}{313}, \frac{28}{313}, \frac{154}{313}, -\frac{120}{313}, \frac{6}{313}, \frac{39}{313}, \frac{105}{313}, -\frac{43}{313})$ $+ \frac{2}{313}\sqrt{16745}e^4 \otimes e_9 + \frac{4}{313}\sqrt{2561}e^1 \otimes e_5$	{12789, 1289, 13679, 1369, 235789, 23589, 5679, 569}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{30}e^{13} + \frac{2}{27}\sqrt{6}e^{24}, \frac{2}{27}\sqrt{3}e^{15} + \frac{2}{27}\sqrt{15}e^{26}$	$(\frac{1}{27}, -\frac{1}{27}, \frac{2}{27}, \frac{4}{27}, -\frac{5}{27}, -\frac{1}{9}, \frac{1}{3}, \frac{1}{9}, -\frac{4}{27})$ $+ \frac{2}{27}\sqrt{21}e^7 \otimes e_8 + \frac{2}{27}\sqrt{30}e^3 \otimes e_9 + \frac{4}{27}\sqrt{6}e^1 \otimes e_5$	{12367, 1347, 234568, 358}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{10670}e^{13} + \frac{1}{313}\sqrt{13774}e^{24},$ $\frac{1}{313}\sqrt{21922}e^{15} + \frac{1}{313}\sqrt{10670}e^{26}$	$(\frac{66}{313}, \frac{87}{313}, -\frac{31}{313}, -\frac{52}{313}, \frac{11}{313}, -\frac{10}{313}, -\frac{86}{313}, \frac{35}{313}, \frac{77}{313})$ $+ \frac{1}{313}\sqrt{20370}e^1 \otimes e_3 + \frac{1}{313}\sqrt{20370}e^5 \otimes e_7 + \frac{2}{313}\sqrt{4074}e^2 \otimes e_6$	{1245, 156, 2347, 367}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{137}\sqrt{7930}e^{13} + \frac{1}{137}\sqrt{2990}e^{24},$ $\frac{1}{137}\sqrt{2990}e^{15} + \frac{1}{137}\sqrt{2470}e^{26}$	$(\frac{36}{137}, \frac{15}{137}, \frac{13}{137}, \frac{34}{137}, -\frac{29}{137}, -\frac{8}{137}, -\frac{52}{137}, \frac{49}{137}, \frac{7}{137})$ $+ \frac{3}{137}\sqrt{910}e^1 \otimes e_5 + \frac{3}{137}\sqrt{910}e^3 \otimes e_7$	{1236, 124678, 134, 178, 234568, 2567, 358, 457}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{662302}e^{13} + \frac{1}{1475}\sqrt{320682}e^{24},$ $\frac{1}{1475}\sqrt{40774}e^{15} + \frac{1}{1475}\sqrt{450718}e^{26}$	$(\frac{149}{1475}, \frac{19}{1475}, \frac{298}{1475}, \frac{428}{1475}, -\frac{402}{1475}, -\frac{272}{1475}, \frac{137}{1475}, \frac{447}{1475}, -\frac{253}{1475})$ $+ \frac{24}{1475}\sqrt{1102}e^1 \otimes e_5 + \frac{2}{1475}\sqrt{209931}e^3 \otimes e_9$	{1236, 12367, 134, 1347, 2345678, 234568, 3578, 358}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{210}e^{13} + \frac{21}{139}\sqrt{5}e^{24},$ $\frac{1}{139}\sqrt{2030}e^{15} + \frac{1}{139}\sqrt{1085}e^{26}$	$(\frac{18}{139}, -\frac{35}{139}, -\frac{17}{139}, \frac{36}{139}, -\frac{17}{139}, \frac{36}{139}, \frac{12}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2765}e^6 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^4 \otimes e_9 + \frac{8}{139}\sqrt{35}e^1 \otimes e_3$	{12456, 124567, 1679, 169, 2346, 23467, 35679, 3569}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{210}e^{13} + \frac{21}{139}\sqrt{5}e^{24},$ $\frac{1}{139}\sqrt{2030}e^{15} + \frac{1}{139}\sqrt{1085}e^{26}$	$(\frac{18}{139}, -\frac{35}{139}, -\frac{17}{139}, \frac{36}{139}, -\frac{17}{139}, \frac{36}{139}, \frac{12}{139}, \frac{1}{139}, \frac{1}{139})$ $- \frac{1}{139}\sqrt{2765}e^6 \otimes e_8 + \frac{1}{139}\sqrt{3885}e^4 \otimes e_9 + \frac{8}{139}\sqrt{35}e^1 \otimes e_3$	{12456, 124567, 1679, 169, 2346, 23467, 35679, 3569}
92:10	$0, 0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{13} + \frac{1}{139}\sqrt{2030}e^{24},$ $\frac{21}{139}\sqrt{5}e^{15} + \frac{1}{139}\sqrt{210}e^{26}$	$(-\frac{35}{139}, -\frac{14}{139}, \frac{36}{139}, \frac{15}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2765}e^3 \otimes e_9 - \frac{1}{139}\sqrt{3885}e^5 \otimes e_8 + \frac{8}{139}\sqrt{35}e^4 \otimes e_7$	{12345, 126789, 13567, 1489, 2378, 24569, 3468, 579}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{139}\sqrt{1085}e^{13} + \frac{1}{139}\sqrt{2030}e^{24},$ $\frac{21}{139}\sqrt{5}e^{15} + \frac{1}{139}\sqrt{210}e^{26}$	$(-\frac{35}{139}, -\frac{14}{139}, \frac{36}{139}, \frac{15}{139}, \frac{36}{139}, \frac{15}{139}, -\frac{20}{139}, \frac{1}{139}, \frac{1}{139})$ $+ \frac{1}{139}\sqrt{2765}e^3 \otimes e_9 + \frac{1}{139}\sqrt{3885}e^5 \otimes e_8 + \frac{8}{139}\sqrt{35}e^4 \otimes e_7$	{12345, 126789, 13567, 1489, 2378, 24569, 3468, 579}
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{1475}\sqrt{320682}e^{13} + \frac{1}{1475}\sqrt{450718}e^{24},$ $\frac{1}{1475}\sqrt{662302}e^{15} + \frac{1}{1475}\sqrt{40774}e^{26}$	$(\frac{403}{1475}, -\frac{47}{295}, -\frac{148}{1475}, \frac{98}{295}, -\frac{464}{1475}, \frac{174}{1475}, \frac{137}{1475}, \frac{51}{295}, -\frac{61}{1475})$ $+ \frac{24}{1475}\sqrt{1102}e^1 \otimes e_3 + \frac{2}{1475}\sqrt{209931}e^4 \otimes e_9$	{1245, 12457, 179, 19, 234, 2347, 3579, 359}
92:10	$0, 0, 0, 0, 0, 0, \frac{6}{3329}\sqrt{8510}e^{13} + \frac{12}{3329}\sqrt{8362}e^{24},$ $\frac{30}{3329}\sqrt{1406}e^{15} + \frac{12}{3329}\sqrt{4958}e^{26}$	$(-\frac{11}{3329}, \frac{663}{3329}, \frac{16}{3329}, -\frac{658}{3329}, \frac{671}{3329}, -\frac{3}{3329}, \frac{677}{3329}, \frac{5}{3329}, \frac{660}{3329})$ $+ \frac{30}{3329}\sqrt{2035}e^5 \otimes e_8 + \frac{6}{3329}\sqrt{29045}e^2 \otimes e_6 + \frac{6}{3329}\sqrt{34151}e^1 \otimes e_7$	{12345, 1356, 2378, 34678}
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{101}\sqrt{2346}e^{13} + \frac{4}{101}\sqrt{102}e^{24},$ $\frac{4}{101}\sqrt{102}e^{15} + \frac{1}{101}\sqrt{714}e^{26}$	$(-\frac{28}{101}, \frac{2}{101}, \frac{25}{101}, -\frac{5}{101}, \frac{48}{101}, \frac{18}{101}, -\frac{26}{101}, -\frac{3}{101}, \frac{20}{101})$ $+ \frac{1}{101}\sqrt{3774}e^3 \otimes e_7 + \frac{1}{101}\sqrt{5406}e^5 \otimes e_8$	{12345, 126789, 1356, 14789, 238, 245679, 3468, 579}
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{31}\sqrt{190}e^{13} + \frac{3}{31}\sqrt{38}e^{24}, \frac{3}{31}\sqrt{38}e^{15} + \frac{1}{31}\sqrt{190}e^{26}$	$(\frac{13}{31}, \frac{13}{31}, -\frac{6}{31}, -\frac{6}{31}, -\frac{6}{31}, -\frac{6}{31}, \frac{3}{31}, \frac{7}{31}, \frac{7}{31})$ $+ \frac{2}{31}\sqrt{133}e^1 \otimes e_3 + \frac{2}{31}\sqrt{133}e^2 \otimes e_6$	{1245, 12457, 156, 1567, 36, 367}
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{374}\sqrt{14578}e^{13} + \frac{1}{374}\sqrt{6895}e^{24},$ $\frac{1}{187}\sqrt{12805}e^{15} + \frac{1}{374}\sqrt{8274}e^{26}$	$(\frac{107}{374}, -\frac{1}{187}, -\frac{45}{187}, \frac{19}{374}, -\frac{1}{4}, \frac{31}{748}, \frac{421}{748}, \frac{1}{22}, \frac{27}{748})$ $+ \frac{1}{187}\sqrt{17139}e^7 \otimes e_9 + \frac{1}{374}\sqrt{64419}e^1 \otimes e_3$	{124567, 1249, 157, 169, 23459, 23467, 3569, 37}
92:10	$0, 0, 0, 0, 0, 0, \frac{2}{19}\sqrt{94}e^{13} + \frac{1}{38}\sqrt{470}e^{24}, \frac{1}{38}\sqrt{470}e^{15} + \frac{1}{38}\sqrt{517}e^{26}$	$(-\frac{9}{76}, \frac{3}{19}, \frac{11}{19}, \frac{23}{19}, \frac{23}{19}, \frac{1}{38}, -\frac{25}{38}, \frac{35}{76}, \frac{7}{38})$ $+ \frac{3}{38}\sqrt{329}e^3 \otimes e_7$	{12359, 1236, 1245789, 124678, 134, 134569, 156789, 178, 234568, 23489, 2567, 279, 358, 3689, 457, 4679}
92:10	$0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{4334}e^{13} + \frac{1}{313}\sqrt{21670}e^{24},$ $\frac{1}{313}\sqrt{21670}e^{15} + \frac{1}{313}\sqrt{13002}e^{26}$	$(-\frac{27}{313}, -\frac{49}{313}, \frac{132}{313}, \frac{154}{313}, -\frac{16}{313}, \frac{6}{313}, -\frac{65}{313}, \frac{105}{313}, -\frac{43}{313})$ $+ \frac{2}{313}\sqrt{16745}e^4 \otimes e_9 + \frac{4}{313}\sqrt{2561}e^3 \otimes e_7$	{123456, 12789, 1369, 14578, 23589, 2467, 348, 5679}
92:11	$0, 0, 0, 0, 0, 0, -\frac{1}{71}\sqrt{1653}e^{12} + \frac{1}{71}\sqrt{1653}e^{34},$ $\frac{1}{71}\sqrt{1247}e^{13} + \frac{1}{71}\sqrt{1247}e^{24} + \frac{2}{71}\sqrt{551}e^{56}$	$(\frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{33}{71}, -\frac{29}{71}, \frac{9}{71}, \frac{4}{71}, \frac{4}{71})$ $+ \frac{2}{71}\sqrt{899}e^5 \otimes e_8$	{1234579, 123459, 1256, 12567, 136789, 13689, 1478, 148, 579, 59, 1234579, 123459, 1256, 12567, 136789, 13689, 1478, 148, 579, 59}
92:11	$0, 0, 0, 0, 0, 0, \frac{1}{71}\sqrt{1653}e^{12} + \frac{1}{71}\sqrt{1653}e^{34},$ $\frac{1}{71}\sqrt{1247}e^{13} + \frac{1}{71}\sqrt{1247}e^{24} + \frac{2}{71}\sqrt{551}e^{56}$	$(\frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{2}{71}, \frac{33}{71}, -\frac{29}{71}, \frac{9}{71}, \frac{4}{71}, \frac{4}{71})$ $+ \frac{2}{71}\sqrt{899}e^5 \otimes e_8$	{1234579, 123459, 1256, 12567, 136789, 13689, 1478, 148, 579, 59, 1234579, 123459, 1256, 12567, 136789, 13689, 1478, 148, 579, 59}
92:11	$0, 0, 0, 0, 0, 0, -\frac{3}{281}\sqrt{5681}e^{12} + \frac{13}{281}\sqrt{115}e^{34},$ $\frac{5}{281}\sqrt{2093}e^{13} + \frac{1}{281}\sqrt{18239}e^{24} + \frac{2}{281}\sqrt{598}e^{56}$	$(\frac{108}{281}, -\frac{10}{281}, -\frac{10}{281}, \frac{108}{281}, \frac{49}{281}, \frac{49}{281}, -\frac{191}{281}, \frac{98}{281}, \frac{98}{281})$ $+ \frac{2}{281}\sqrt{35282}e^1 \otimes e_7$	{1235, 124569, 1249, 13458, 15689, 189, 23456789, 234789, 2578, 35679, 379, 457, 1235, 124569, 1249, 13458, 15689, 189, 23456789, 234789, 2578, 35679, 379, 457}
92:11	$0, 0, 0, 0, 0, 0, \frac{3}{281}\sqrt{5681}e^{12} + \frac{13}{281}\sqrt{115}e^{34},$ $\frac{5}{281}\sqrt{2093}e^{13} + \frac{1}{281}\sqrt{18239}e^{24} + \frac{2}{281}\sqrt{598}e^{56}$	$(\frac{108}{281}, -\frac{10}{281}, -\frac{10}{281}, \frac{108}{281}, \frac{49}{281}, \frac{49}{281}, -\frac{191}{281}, \frac{98}{281}, \frac{98}{281})$ $+ \frac{2}{281}\sqrt{35282}e^1 \otimes e_7$	{1235, 124569, 1249, 13458, 15689, 189, 23456789, 234789, 2578, 35679, 379, 457, 1235, 124569, 1249, 13458, 15689, 189, 23456789, 234789, 2578, 35679, 379, 457}
92:11	$0, 0, 0, 0, 0, 0, -\frac{6}{71}\sqrt{19}e^{12} + \frac{6}{71}\sqrt{19}e^{34},$ $\frac{2}{71}\sqrt{57}e^{13} + \frac{2}{71}\sqrt{57}e^{24} + \frac{4}{71}\sqrt{57}e^{56}$	$(\frac{10}{71}, \frac{10}{71}, \frac{10}{71}, \frac{10}{71}, \frac{67}{71}, -\frac{47}{71}, \frac{14}{71}, \frac{20}{71}, \frac{20}{71})$ $+ \frac{114}{71}e^5 \otimes e_6$	{12579, 1259, 12679, 1269, 145789, 14589, 146789, 14689, 12579, 1259, 12679, 1269, 145789, 14589, 146789, 14689}
92:11	$0, 0, 0, 0, 0, 0, \frac{6}{71}\sqrt{19}e^{12} + \frac{6}{71}\sqrt{19}e^{34},$ $\frac{2}{71}\sqrt{57}e^{13} + \frac{2}{71}\sqrt{57}e^{24} + \frac{4}{71}\sqrt{57}e^{56}$	$(\frac{10}{71}, \frac{10}{71}, \frac{10}{71}, \frac{10}{71}, \frac{67}{71}, -\frac{47}{71}, \frac{14}{71}, \frac{20}{71}, \frac{20}{71})$ $+ \frac{114}{71}e^5 \otimes e_6$	{12579, 1259, 12679, 1269, 145789, 14589, 146789, 14689, 12579, 1259, 12679, 1269, 145789, 14589, 146789, 14689}
92:11	$0, 0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{15}e^{12} + \frac{1}{9}\sqrt{15}e^{34}, \frac{1}{3}e^{13} + \frac{1}{3}e^{24} + \frac{2}{9}\sqrt{6}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_8 + \frac{2}{9}\sqrt{3}e^7 \otimes e_9$	{123459, 12567, 13689, 1478, 59, 123459, 12567, 13689, 1478, 59}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:11	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{15}e^{12} + \frac{1}{9}\sqrt{15}e^{34}, \frac{1}{3}e^{13} + \frac{1}{3}e^{24} + \frac{2}{9}\sqrt{6}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{1}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_8 + \frac{2}{9}\sqrt{3}e^7 \otimes e_9$	{123459, 12567, 13689, 1478, 59, 123459, 12567, 13689, 1478, 59}
92:11	$0, 0, 0, 0, 0, 0, -\frac{2}{287}\sqrt{5681}e^{12} + \frac{26}{861}\sqrt{115}e^{34},$ $\frac{10}{861}\sqrt{2093}e^{13} + \frac{2}{861}\sqrt{18239}e^{24} + \frac{4}{861}\sqrt{598}e^{56}$	$(\frac{72}{287}, -\frac{20}{861}, -\frac{20}{861}, \frac{72}{287}, \frac{397}{861}, -\frac{67}{287}, -\frac{382}{861}, \frac{28}{123}, \frac{28}{123})$ $+ \frac{4}{861}\sqrt{35282}e^1 \otimes e_7 + \frac{598}{861}e^5 \otimes e_6$	{1235, 1236, 13458, 13468, 2578, 2678, 457, 467, 1235, 1236, 13458, 13468, 2578, 2678, 457, 467}
92:11	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{5681}e^{12} + \frac{26}{861}\sqrt{115}e^{34},$ $\frac{10}{861}\sqrt{2093}e^{13} + \frac{2}{861}\sqrt{18239}e^{24} + \frac{4}{861}\sqrt{598}e^{56}$	$(\frac{72}{287}, -\frac{20}{861}, -\frac{20}{861}, \frac{72}{287}, \frac{397}{861}, -\frac{67}{287}, -\frac{382}{861}, \frac{28}{123}, \frac{28}{123})$ $+ \frac{4}{861}\sqrt{35282}e^1 \otimes e_7 + \frac{598}{861}e^5 \otimes e_6$	{1235, 1236, 13458, 13468, 2578, 2678, 457, 467, 1235, 1236, 13458, 13468, 2578, 2678, 457, 467}
92:11	$0, 0, 0, 0, 0, 0, -\frac{5}{216}\sqrt{130}e^{12} + \frac{5}{216}\sqrt{130}e^{34},$ $\frac{5}{216}\sqrt{111}e^{13} + \frac{5}{216}\sqrt{111}e^{24} + \frac{5}{216}\sqrt{218}e^{56}$	$(\frac{5}{144}, \frac{5}{144}, \frac{5}{144}, \frac{5}{144}, -\frac{25}{216}, \frac{5}{27}, -\frac{25}{108}, \frac{5}{72}, \frac{5}{72})$ $+ \frac{5}{108}\sqrt{66}e^6 \otimes e_8 + \frac{5}{216}\sqrt{134}e^5 \otimes e_7$	{1234679, 1256, 13589, 1478, 679, 1234679, 1256, 13589, 1478, 679}
92:11	$0, 0, 0, 0, 0, 0, \frac{5}{216}\sqrt{130}e^{12} + \frac{5}{216}\sqrt{130}e^{34},$ $\frac{5}{216}\sqrt{111}e^{13} + \frac{5}{216}\sqrt{111}e^{24} + \frac{5}{216}\sqrt{218}e^{56}$	$(\frac{5}{144}, \frac{5}{144}, \frac{5}{144}, \frac{5}{144}, -\frac{25}{216}, \frac{5}{27}, -\frac{25}{108}, \frac{5}{72}, \frac{5}{72})$ $+ \frac{5}{108}\sqrt{66}e^6 \otimes e_8 + \frac{5}{216}\sqrt{134}e^5 \otimes e_7$	{1234679, 1256, 13589, 1478, 679, 1234679, 1256, 13589, 1478, 679}
92:11	$0, 0, 0, 0, 0, 0, -\frac{5}{91}\sqrt{69}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{5}{91}\sqrt{23}e^{13} + \frac{5}{91}\sqrt{47}e^{24} + \frac{10}{91}\sqrt{17}e^{56}$	$(\frac{10}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{25}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+ \frac{10}{91}\sqrt{29}e^5 \otimes e_8 + \frac{20}{91}\sqrt{3}e^1 \otimes e_7$	{123459, 1256, 13689, 148, 2378, 246789, 34567, 579, 123459, 1256, 13689, 148, 2378, 246789, 34567, 579}
92:11	$0, 0, 0, 0, 0, 0, \frac{5}{91}\sqrt{69}e^{12} + \frac{15}{91}\sqrt{5}e^{34},$ $\frac{5}{91}\sqrt{23}e^{13} + \frac{5}{91}\sqrt{47}e^{24} + \frac{10}{91}\sqrt{17}e^{56}$	$(\frac{10}{91}, -\frac{2}{91}, -\frac{2}{91}, \frac{10}{91}, \frac{33}{91}, -\frac{25}{91}, -\frac{15}{91}, \frac{8}{91}, \frac{8}{91})$ $+ \frac{10}{91}\sqrt{29}e^5 \otimes e_8 + \frac{20}{91}\sqrt{3}e^1 \otimes e_7$	{123459, 1256, 13689, 148, 2378, 246789, 34567, 579, 123459, 1256, 13689, 148, 2378, 246789, 34567, 579}
92:11	$0, 0, 0, 0, 0, 0, -\frac{1}{6}\sqrt{6}e^{12} + \frac{1}{6}\sqrt{6}e^{34},$ $\frac{1}{2}\sqrt{2}e^{13} + \frac{1}{2}\sqrt{2}e^{24} + \frac{1}{3}\sqrt{3}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^7 \otimes e_9$	{12345678, 123478, 12589, 13567, 137, 1459, 5678, 78, 12345678, 123478, 12589, 13567, 137, 1459, 5678, 78}
92:11	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{6}e^{12} + \frac{1}{6}\sqrt{6}e^{34},$ $\frac{1}{2}\sqrt{2}e^{13} + \frac{1}{2}\sqrt{2}e^{24} + \frac{1}{3}\sqrt{3}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^7 \otimes e_9$	{12345678, 123478, 12589, 13567, 137, 1459, 5678, 78, 12345678, 123478, 12589, 13567, 137, 1459, 5678, 78}
92:11	$0, 0, 0, 0, 0, 0, -\frac{1}{3}\sqrt{6}e^{12} + \frac{1}{3}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{13} + \frac{1}{3}\sqrt{3}e^{24} + \frac{1}{3}\sqrt{3}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^7 \otimes e_8$	{1234579, 12567, 127, 13589, 14568, 148, 579, 1234579, 12567, 127, 13589, 14568, 148, 579}
92:11	$0, 0, 0, 0, 0, 0, \frac{1}{3}\sqrt{6}e^{12} + \frac{1}{3}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{3}e^{13} + \frac{1}{3}\sqrt{3}e^{24} + \frac{1}{3}\sqrt{3}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^7 \otimes e_8$	{1234579, 12567, 127, 13589, 14568, 148, 579, 1234579, 12567, 127, 13589, 14568, 148, 579}
92:11	$0, 0, 0, 0, 0, 0, -\frac{1}{72}\sqrt{1246}e^{12} + \frac{1}{72}\sqrt{1246}e^{34},$ $\frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1335}e^{24} + \frac{1}{72}\sqrt{5162}e^{56}$	$(\frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{43}{72}, -\frac{2}{9}, -\frac{23}{36}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_7$	{123459, 1234679, 1256, 127, 13589, 136789, 14568, 1478, 59, 679, 123459, 1234679, 1256, 127, 13589, 136789, 14568, 1478, 59, 679}
92:11	$0, 0, 0, 0, 0, 0, \frac{1}{72}\sqrt{1246}e^{12} + \frac{1}{72}\sqrt{1246}e^{34},$ $\frac{1}{72}\sqrt{1335}e^{13} + \frac{1}{72}\sqrt{1335}e^{24} + \frac{1}{72}\sqrt{5162}e^{56}$	$(\frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{43}{72}, -\frac{2}{9}, -\frac{23}{36}, \frac{3}{8}, \frac{3}{8})$ $+ \frac{1}{72}\sqrt{10502}e^5 \otimes e_7$	{123459, 1234679, 1256, 127, 13589, 136789, 14568, 1478, 59, 679, 123459, 1234679, 1256, 127, 13589, 136789, 14568, 1478, 59, 679}
92:11	$0, 0, 0, 0, 0, 0, -\frac{2}{9}\sqrt{6}e^{12} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24} + \frac{2}{9}\sqrt{3}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_6 + \frac{2}{9}\sqrt{15}e^7 \otimes e_8$	{1234579, 1234679, 13589, 13689, 579, 679, 1234579, 1234679, 13589, 13689, 579, 679}
92:11	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{6}e^{12} + \frac{2}{9}\sqrt{6}e^{34},$ $\frac{2}{9}\sqrt{3}e^{13} + \frac{2}{9}\sqrt{3}e^{24} + \frac{2}{9}\sqrt{3}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_6 + \frac{2}{9}\sqrt{15}e^7 \otimes e_8$	{1234579, 1234679, 13589, 13689, 579, 679, 1234579, 1234679, 13589, 13689, 579, 679}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:11	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{6}e^{12} + \frac{1}{9}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{2}e^{13} + \frac{1}{3}\sqrt{2}e^{24} + \frac{2}{9}\sqrt{3}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_6 + \frac{2}{9}\sqrt{15}e^7 \otimes e_9$	{12589, 12689, 1459, 1469, 12589, 12689, 1459, 1469}
92:11	$0, 0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{6}e^{12} + \frac{1}{9}\sqrt{6}e^{34},$ $\frac{1}{3}\sqrt{2}e^{13} + \frac{1}{3}\sqrt{2}e^{24} + \frac{2}{9}\sqrt{3}e^{56}$	$(0, 0, 0, 0, \frac{1}{3}, -\frac{1}{3}, \frac{2}{3}, 0, 0)$ $+ \frac{2}{3}e^5 \otimes e_6 + \frac{2}{9}\sqrt{15}e^7 \otimes e_9$	{12589, 12689, 1459, 1469, 12589, 12689, 1459, 1469}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{5}{683}\sqrt{3206}e^{12} + \frac{10}{683}\sqrt{21}e^{34},$ $\frac{5}{683}\sqrt{854}e^{13} + \frac{40}{683}\sqrt{14}e^{25} + \frac{10}{683}\sqrt{714}e^{46}$	$(-\frac{115}{683}, \frac{90}{683}, \frac{120}{683}, -\frac{145}{683}, -\frac{85}{683}, \frac{150}{683}, \frac{180}{683}, -\frac{25}{683}, \frac{5}{683})$ $+ \frac{10}{683}\sqrt{707}e^2 \otimes e_5 + \frac{35}{683}\sqrt{86}e^6 \otimes e_8 + \frac{5}{683}\sqrt{1778}e^7 \otimes e_9$	{12467, 1578}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{1}{267}\sqrt{25530}e^{12} + \frac{1}{267}\sqrt{12190}e^{34},$ $\frac{20}{267}\sqrt{23}e^{13} + \frac{1}{267}\sqrt{12190}e^{25} + \frac{1}{267}\sqrt{6670}e^{46}$	$(\frac{1}{89}, \frac{76}{267}, \frac{34}{267}, \frac{15}{89}, -\frac{13}{89}, -\frac{8}{267}, -\frac{112}{267}, \frac{79}{267}, \frac{37}{267})$ $+ \frac{1}{267}\sqrt{25990}e^2 \otimes e_5 + \frac{1}{267}\sqrt{30590}e^1 \otimes e_7$	{123, 134568, 278, 4567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{5}{337}\sqrt{1230}e^{12} + \frac{337}{337}\sqrt{5781}e^{34},$ $\frac{1}{337}\sqrt{16851}e^{13} + \frac{1}{337}\sqrt{1722}e^{25} + \frac{3}{337}\sqrt{2255}e^{46}$	$(-\frac{24}{337}, \frac{28}{337}, \frac{155}{674}, -\frac{147}{674}, \frac{51}{674}, \frac{127}{337}, -\frac{95}{337}, \frac{4}{337}, \frac{107}{674})$ $+ \frac{3}{337}\sqrt{3485}e^2 \otimes e_7 + \frac{3}{337}\sqrt{4838}e^6 \otimes e_8$	{2358, 2489, 3467, 5679}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{50}{3269}\sqrt{390}e^{12} + \frac{300}{3269}\sqrt{13}e^{34},$ $\frac{10}{3269}\sqrt{10155}e^{13} + \frac{30}{3269}\sqrt{285}e^{25} + \frac{40}{3269}\sqrt{330}e^{46}$	$(\frac{290}{3269}, -\frac{295}{3269}, \frac{160}{3269}, -\frac{165}{3269}, \frac{745}{3269}, \frac{615}{3269}, -\frac{1045}{3269}, -\frac{5}{3269}, \frac{450}{3269})$ $+ \frac{30}{3269}\sqrt{2830}e^5 \otimes e_8 + \frac{60}{3269}\sqrt{545}e^2 \otimes e_7$	{1256, 1478, 24689, 579}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{155}\sqrt{38}e^{12} + \frac{12}{155}\sqrt{38}e^{34},$ $\frac{2}{155}\sqrt{627}e^{13} + \frac{2}{155}\sqrt{57}e^{25} + \frac{2}{155}\sqrt{57}e^{46}$	$(\frac{4}{155}, \frac{61}{155}, \frac{4}{155}, \frac{61}{155}, -\frac{53}{155}, -\frac{53}{155}, \frac{17}{155}, \frac{13}{31}, \frac{8}{155})$ $+ \frac{6}{155}\sqrt{437}e^2 \otimes e_5 + \frac{6}{155}\sqrt{437}e^4 \otimes e_6$	{123479, 12349, 1356789, 135689, 24789, 2489, 5679, 569}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{2441}\sqrt{8029}e^{12} + \frac{18}{2441}\sqrt{2590}e^{34},$ $\frac{2}{2441}\sqrt{205905}e^{13} + \frac{2}{2441}\sqrt{101010}e^{25} + \frac{2}{2441}\sqrt{350427}e^{46}$	$(-\frac{359}{2441}, \frac{739}{2441}, \frac{283}{2441}, \frac{97}{2441}, -\frac{815}{2441}, -\frac{173}{2441}, \frac{1478}{2441}, \frac{380}{2441}, -\frac{76}{2441})$ $+ \frac{120}{2441}\sqrt{259}e^7 \otimes e_9 + \frac{6}{2441}\sqrt{83139}e^2 \otimes e_5$	{1249, 15689, 23489, 3569}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{8}{195}\sqrt{33}e^{12} + \frac{8}{195}\sqrt{33}e^{34},$ $\frac{8}{195}\sqrt{33}e^{13} + \frac{4}{65}\sqrt{22}e^{25} + \frac{4}{65}\sqrt{22}e^{46}$	$(-\frac{4}{195}, \frac{44}{195}, -\frac{4}{195}, \frac{44}{195}, -\frac{4}{195}, \frac{4}{195}, \frac{88}{195}, \frac{8}{39}, -\frac{8}{195})$ $+ \frac{4}{195}\sqrt{642}e^2 \otimes e_5 - \frac{4}{195}\sqrt{642}e^4 \otimes e_6 + \frac{8}{195}\sqrt{210}e^7 \otimes e_9$	{1269, 14589}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{2}{131}\sqrt{1110}e^{12} + \frac{6}{131}\sqrt{74}e^{34},$ $\frac{2}{131}\sqrt{851}e^{13} + \frac{2}{131}\sqrt{222}e^{25} + \frac{2}{131}\sqrt{1110}e^{46}$	$(\frac{8}{131}, -\frac{21}{131}, \frac{20}{131}, -\frac{33}{131}, \frac{49}{131}, \frac{61}{131}, -\frac{25}{131}, -\frac{13}{131}, \frac{28}{131})$ $+ \frac{4}{131}\sqrt{370}e^5 \otimes e_7 + \frac{4}{131}\sqrt{703}e^6 \otimes e_8$	{2358, 24789, 3467, 569}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{343}\sqrt{115}e^{12} + \frac{12}{343}\sqrt{115}e^{34},$ $\frac{1}{343}\sqrt{57270}e^{13} + \frac{1}{343}\sqrt{48990}e^{25} + \frac{1}{343}\sqrt{48990}e^{46}$	$(-\frac{1}{343}, \frac{11}{343}, -\frac{1}{343}, \frac{11}{343}, -\frac{13}{343}, -\frac{13}{343}, 1, \frac{10}{343}, -\frac{2}{343})$ $+ \frac{15}{343}\sqrt{874}e^7 \otimes e_9$	{12345678, 12689, 137, 1459, 24567, 78}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{60}{809}\sqrt{67}e^{12} + \frac{6}{809}\sqrt{1474}e^{34},$ $\frac{2}{809}\sqrt{19095}e^{13} + \frac{2}{809}\sqrt{12462}e^{25} + \frac{2}{809}\sqrt{11055}e^{46}$	$(-\frac{131}{809}, \frac{187}{809}, \frac{103}{809}, -\frac{47}{809}, -\frac{215}{809}, \frac{19}{809}, \frac{458}{809}, \frac{56}{809}, -\frac{28}{809})$ $+ \frac{18}{809}\sqrt{871}e^2 \otimes e_5 + \frac{48}{809}\sqrt{134}e^7 \otimes e_8$	{127, 14568, 238, 34567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{6}{169}\sqrt{154}e^{12} + \frac{42}{169}\sqrt{10}e^{34},$ $\frac{6}{169}\sqrt{259}e^{13} + \frac{42}{169}\sqrt{10}e^{25} + \frac{42}{169}\sqrt{182}e^{46}$	$(\frac{40}{169}, -\frac{67}{169}, -\frac{8}{169}, -\frac{19}{169}, \frac{99}{169}, \frac{51}{169}, \frac{25}{169}, -\frac{27}{169}, \frac{32}{169})$ $+ \frac{72}{169}\sqrt{7}e^5 \otimes e_8$	{1256, 12567, 1478, 148, 246789, 24689, 579, 59}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{155}\sqrt{38}e^{12} + \frac{12}{155}\sqrt{38}e^{34},$ $\frac{2}{155}\sqrt{627}e^{13} + \frac{2}{155}\sqrt{57}e^{25} + \frac{2}{155}\sqrt{57}e^{46}$	$(\frac{4}{155}, \frac{61}{155}, \frac{4}{155}, \frac{61}{155}, -\frac{53}{155}, -\frac{53}{155}, \frac{17}{155}, \frac{13}{31}, \frac{8}{155})$ $+ \frac{6}{155}\sqrt{437}e^2 \otimes e_5 - \frac{6}{155}\sqrt{437}e^4 \otimes e_6$	{123479, 12349, 1356789, 135689, 24789, 2489, 5679, 569}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{31}{927}\sqrt{114}e^{12} + \frac{31}{6489}\sqrt{942}e^{34},$ $\frac{62}{6489}\sqrt{70}e^{13} + \frac{31}{6489}\sqrt{2558}e^{25} + \frac{31}{6489}\sqrt{3130}e^{46}$	$(-\frac{155}{2163}, \frac{248}{2163}, \frac{992}{6489}, -\frac{713}{6489}, -\frac{31}{927}, \frac{1240}{6489}, -\frac{1426}{6489}, \frac{31}{721}, \frac{527}{6489})$ $+ \frac{124}{6489}\sqrt{303}e^6 \otimes e_8 + \frac{31}{6489}\sqrt{3614}e^1 \otimes e_7 + \frac{31}{6489}\sqrt{3754}e^2 \otimes e_5$	{1246, 158}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12} + \frac{12}{71}\sqrt{5}e^{34},$ $\frac{8}{71}\sqrt{6}e^{13} + \frac{2}{71}\sqrt{6}e^{25} + \frac{2}{71}\sqrt{6}e^{46}$	$(-\frac{2}{71}, \frac{10}{71}, -\frac{2}{71}, \frac{10}{71}, -\frac{14}{71}, -\frac{14}{71}, \frac{32}{71}, \frac{8}{71}, -\frac{4}{71})$ $+ \frac{36}{71}e^7 \otimes e_8 + \frac{6}{71}\sqrt{26}e^2 \otimes e_5 + \frac{6}{71}\sqrt{26}e^4 \otimes e_6$	{1267, 1458}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{8}{195}\sqrt{33}e^{12} + \frac{8}{195}\sqrt{33}e^{34},$ $\frac{8}{195}\sqrt{33}e^{13} + \frac{4}{65}\sqrt{22}e^{25} + \frac{4}{65}\sqrt{22}e^{46}$	$(-\frac{4}{195}, \frac{44}{195}, -\frac{4}{195}, \frac{44}{195}, -\frac{4}{195}, -\frac{4}{195}, \frac{88}{195}, \frac{8}{39}, -\frac{8}{195})$ $+ \frac{4}{195}\sqrt{642}e^2 \otimes e_5 + \frac{4}{195}\sqrt{642}e^4 \otimes e_6 + \frac{8}{195}\sqrt{210}e^7 \otimes e_9$	{1269, 14589}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1069}\sqrt{2415}e^{12} + \frac{56}{1069}\sqrt{69}e^{34},$ $\frac{1}{1069}\sqrt{29946}e^{13} + \frac{21}{1069}\sqrt{782}e^{25} + \frac{1}{1069}\sqrt{10626}e^{46}$	$(\frac{109}{1069}, -\frac{279}{1069}, -\frac{75}{1069}, -\frac{95}{1069}, \frac{313}{1069}, \frac{129}{1069}, \frac{517}{1069}, -\frac{170}{1069}, \frac{34}{1069})$ $+ \frac{21}{1069}\sqrt{874}e^7 \otimes e_9 + \frac{276}{1069}\sqrt{7}e^5 \otimes e_8$	{12567, 1478, 24689, 59}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{83}\sqrt{51}e^{12} + \frac{2}{83}\sqrt{510}e^{34},$ $\frac{2}{83}\sqrt{255}e^{13} + \frac{2}{83}\sqrt{510}e^{25} + \frac{2}{83}\sqrt{663}e^{46}$	$(-\frac{17}{83}, \frac{57}{83}, \frac{29}{83}, \frac{11}{83}, -\frac{45}{83}, \frac{1}{83}, \frac{14}{83}, \frac{40}{83}, \frac{12}{83})$ $+ \frac{6}{83}\sqrt{391}e^2 \otimes e_5$	{1246, 12467, 1578, 158, 234678, 23468, 35, 357}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{6}{2669}\sqrt{52266}e^{12} + \frac{2}{2669}\sqrt{193890}e^{34},$ $\frac{2}{2669}\sqrt{257115}e^{13} + \frac{2}{2669}\sqrt{160170}e^{25} + \frac{4}{2669}\sqrt{127293}e^{46}$	$(\frac{2}{157}, \frac{1041}{2669}, \frac{362}{2669}, \frac{713}{2669}, -\frac{645}{2669}, -\frac{317}{2669}, -\frac{973}{2669}, \frac{1075}{2669}, \frac{396}{2669})$ $+ \frac{12}{2669}\sqrt{29505}e^4 \otimes e_7 + \frac{6}{2669}\sqrt{105094}e^2 \otimes e_5$	{127, 14568, 2378, 3456}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31}e^{12} + \frac{12}{85}\sqrt{31}e^{34},$ $\frac{1}{85}\sqrt{2139}e^{13} + \frac{1}{85}\sqrt{93}e^{25} + \frac{1}{85}\sqrt{93}e^{46}$	$(\frac{2}{85}, -\frac{2}{17}, \frac{2}{85}, -\frac{2}{17}, \frac{14}{85}, \frac{14}{85}, 1, -\frac{8}{85}, \frac{4}{85})$ $+ \frac{3}{85}\sqrt{1457}e^7 \otimes e_8$	{123479, 1257, 135689, 1468, 2489, 5679}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{71}\sqrt{5}e^{12} + \frac{12}{71}\sqrt{5}e^{34},$ $\frac{8}{71}\sqrt{6}e^{13} + \frac{2}{71}\sqrt{6}e^{25} + \frac{2}{71}\sqrt{6}e^{46}$	$(-\frac{2}{71}, \frac{10}{71}, -\frac{2}{71}, \frac{10}{71}, -\frac{14}{71}, -\frac{14}{71}, \frac{32}{71}, \frac{8}{71}, -\frac{4}{71})$ $+ \frac{30}{71}e^7 \otimes e_8 + \frac{6}{71}\sqrt{26}e^2 \otimes e_5 - \frac{6}{71}\sqrt{26}e^4 \otimes e_6$	{1267, 1458}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{12}{85}\sqrt{31}e^{12} + \frac{1}{85}\sqrt{93}e^{34},$ $\frac{1}{85}\sqrt{2139}e^{13} + \frac{12}{85}\sqrt{31}e^{25} + \frac{1}{85}\sqrt{93}e^{46}$	$(\frac{2}{85}, \frac{37}{85}, \frac{3}{10}, \frac{27}{10}, -\frac{19}{170}, \frac{14}{85}, -\frac{56}{85}, \frac{39}{85}, \frac{11}{34})$ $+ \frac{3}{85}\sqrt{1457}e^2 \otimes e_7$	{12349, 125, 1356789, 14678, 2358, 2489, 3467, 5679}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{30}{3125}\sqrt{1954}e^{12} + \frac{60}{2411}\sqrt{35}e^{34},$ $\frac{30}{2411}\sqrt{62}e^{13} + \frac{30}{2411}\sqrt{962}e^{25} + \frac{30}{2411}\sqrt{1318}e^{46}$	$(\frac{170}{2411}, -\frac{272}{2411}, \frac{263}{2411}, -\frac{365}{2411}, \frac{705}{2411}, \frac{798}{2411}, -\frac{730}{2411}, -\frac{102}{2411}, \frac{433}{2411})$ $+ \frac{180}{2411}\sqrt{53}e^1 \otimes e_7 + \frac{90}{2411}\sqrt{274}e^6 \otimes e_8$	{2345789, 278, 3679, 4567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{42}{3125}\sqrt{1518}e^{12} + \frac{2}{3125}\sqrt{18354}e^{34},$ $\frac{2}{3125}\sqrt{263235}e^{13} + \frac{2}{3125}\sqrt{254058}e^{25} + \frac{14}{3125}\sqrt{9798}e^{46}$	$(-\frac{584}{3125}, \frac{573}{3125}, \frac{764}{3125}, -\frac{31}{125}, -\frac{393}{3125}, \frac{191}{625}, \frac{257}{3125}, -\frac{11}{3125}, \frac{36}{625})$ $+ \frac{12}{3125}\sqrt{22701}e^6 \otimes e_8 + \frac{84}{3125}\sqrt{322}e^2 \otimes e_5$	{2378, 238, 3456, 34567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{5}{587}\sqrt{390}e^{12} + \frac{30}{587}\sqrt{30}e^{34},$ $\frac{5}{587}\sqrt{651}e^{13} + \frac{3}{587}\sqrt{1158}e^{25} + \frac{10}{587}\sqrt{114}e^{46}$	$(\frac{80}{587}, -\frac{55}{587}, -\frac{35}{587}, \frac{60}{587}, \frac{100}{587}, -\frac{15}{587}, \frac{130}{587}, \frac{25}{587}, \frac{45}{587})$ $+ \frac{15}{587}\sqrt{111}e^2 \otimes e_7 + \frac{15}{587}\sqrt{85}e^4 \otimes e_6 + \frac{45}{587}\sqrt{19}e^5 \otimes e_8$	{1256, 1478}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{11}{1247}\sqrt{462}e^{12} + \frac{231}{1247}\sqrt{6}e^{34},$ $\frac{22}{1247}\sqrt{201}e^{13} + \frac{11}{1247}\sqrt{1842}e^{25} + \frac{22}{1247}\sqrt{258}e^{46}$	$(\frac{308}{1247}, -\frac{286}{1247}, -\frac{209}{1247}, \frac{231}{1247}, \frac{385}{1247}, -\frac{132}{1247}, -\frac{55}{1247}, \frac{22}{1247}, \frac{99}{1247})$ $+ \frac{198}{1247}\sqrt{11}e^5 \otimes e_8 + \frac{33}{1247}\sqrt{102}e^1 \otimes e_7 + \frac{66}{1247}\sqrt{67}e^4 \otimes e_6$	{1256, 148}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{11}{259}\sqrt{462}e^{12} + \frac{33}{259}\sqrt{6}e^{34},$ $\frac{11}{259}\sqrt{123}e^{13} + \frac{11}{259}\sqrt{183}e^{25} + \frac{11}{259}\sqrt{15}e^{46}$	$(\frac{319}{1036}, \frac{11}{518}, -\frac{121}{1036}, \frac{33}{74}, \frac{44}{259}, -\frac{66}{259}, -\frac{11}{28}, \frac{341}{1036}, \frac{99}{518})$ $+ \frac{33}{518}\sqrt{133}e^4 \otimes e_6 + \frac{33}{518}\sqrt{174}e^1 \otimes e_7$	{1234, 13568, 2478, 567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{2}{203}\sqrt{3782}e^{12} + \frac{2}{203}\sqrt{1830}e^{34},$ $\frac{2}{203}\sqrt{915}e^{13} + \frac{2}{203}\sqrt{1830}e^{25} + \frac{2}{203}\sqrt{3782}e^{46}$	$(-\frac{4}{29}, \frac{79}{203}, \frac{64}{203}, -\frac{13}{203}, -\frac{43}{203}, \frac{7}{29}, -\frac{73}{203}, \frac{51}{203}, \frac{36}{203})$ $+ \frac{4}{203}\sqrt{1403}e^2 \otimes e_5 + \frac{4}{203}\sqrt{1403}e^6 \otimes e_7$	{1246, 1578, 23468, 357}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{3}{329}\sqrt{8806}e^{12} + \frac{3}{329}\sqrt{4958}e^{34},$ $\frac{6}{329}\sqrt{1961}e^{13} + \frac{3}{329}\sqrt{4958}e^{25} + \frac{3}{329}\sqrt{481}e^{46}$	$(\frac{104}{329}, -\frac{2}{329}, \frac{11}{329}, \frac{13}{47}, \frac{117}{329}, \frac{24}{329}, -\frac{229}{329}, \frac{102}{329}, \frac{115}{329})$ $+ \frac{9}{329}\sqrt{2294}e^1 \otimes e_7$	{123, 12459, 134568, 1689, 2345789, 278, 3679, 4567}
92:12	$0, 0, 0, 0, 0, 0, 0, \frac{2}{83}\sqrt{510}e^{12} + \frac{2}{83}\sqrt{663}e^{34},$ $\frac{2}{83}\sqrt{255}e^{13} + \frac{2}{83}\sqrt{51}e^{25} + \frac{2}{83}\sqrt{510}e^{46}$	$(\frac{29}{83}, -\frac{12}{83}, \frac{6}{83}, \frac{11}{83}, \frac{47}{83}, \frac{24}{83}, -\frac{55}{83}, \frac{17}{83}, \frac{35}{83})$ $+ \frac{6}{83}\sqrt{391}e^5 \otimes e_7$	{123789, 12458, 134569, 167, 2345, 279, 3678, 45689}
92:13	$0, 0, 0, 0, 0, 0, 0, \frac{12}{209}\sqrt{210}e^{13} + \frac{2}{209}\sqrt{4830}e^{25} + \frac{2}{209}\sqrt{1365}e^{46},$ $\frac{12}{209}\sqrt{210}e^{12} + \frac{2}{209}\sqrt{4830}e^{34} + \frac{2}{209}\sqrt{1365}e^{56}$	$(\frac{65}{209}, \frac{6}{209}, \frac{6}{209}, \frac{65}{209}, \frac{65}{209}, \frac{6}{209}, -\frac{145}{209}, \frac{71}{209}, \frac{71}{209})$ $+ \frac{6}{209}\sqrt{2065}e^1 \otimes e_7$	{123, 1689, 2345789, 4567}
92:13	$0, 0, 0, 0, 0, 0, 0, \frac{2}{3}e^{13} + \frac{2}{3}e^{25} + \frac{2}{3}e^{46}, \frac{1}{3}e^{12} + \frac{1}{3}e^{34} + \frac{1}{3}e^{56}$	$(0, 0, 0, 0, 0, 0, 1, 0, 0)$ $+ \frac{1}{3}\sqrt{15}e^7 \otimes e_8$	{12345679, 1458, 79}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{128}\sqrt{815}e^{12},$ $\frac{1}{128}\sqrt{16626}e^{13} + \frac{1}{128}\sqrt{2445}e^{45} + \frac{1}{128}\sqrt{2445}e^{67}$	$(\frac{87}{128}, -\frac{19}{32}, -\frac{15}{64}, \frac{57}{256}, \frac{57}{256}, \frac{57}{256}, \frac{57}{256}, \frac{11}{128}, \frac{57}{128})$ $+ \frac{1}{128}\sqrt{34882}e^1 \otimes e_2$	{1346, 145679, 1459, 19, 2345679, 23459, 239, 246}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{5}{72}\sqrt{15}e^{12}, \frac{5}{48}\sqrt{34}e^{13} + \frac{5}{144}\sqrt{57}e^{45} + \frac{5}{144}\sqrt{57}e^{67}$	$(\frac{5}{48}, -\frac{5}{12}, \frac{5}{24}, \frac{5}{32}, \frac{5}{32}, \frac{5}{32}, \frac{5}{32}, -\frac{5}{16}, \frac{5}{16})$ $+ \frac{5}{48}\sqrt{42}e^1 \otimes e_2 + \frac{5}{72}\sqrt{102}e^3 \otimes e_8$	{1456789, 14589, 189, 2468}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{4}e^{13} + \frac{1}{12}\sqrt{6}e^{45} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{21}e^3 \otimes e_8 + \frac{1}{4}\sqrt{3}e^2 \otimes e_9 + \frac{1}{4}e^5 \otimes e_4 - \frac{1}{4}e^7 \otimes e_6$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{4}e^{13} + \frac{1}{12}\sqrt{6}e^{45} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $- \frac{1}{12}\sqrt{21}e^3 \otimes e_8 + \frac{1}{4}\sqrt{3}e^2 \otimes e_9 + \frac{1}{4}e^5 \otimes e_4 - \frac{1}{4}e^7 \otimes e_6$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{815}e^{12},$ $\frac{1}{291}\sqrt{16626}e^{13} + \frac{1}{291}\sqrt{2445}e^{45} + \frac{1}{291}\sqrt{2445}e^{67}$	$(\frac{29}{97}, -\frac{76}{291}, -\frac{10}{97}, \frac{110}{291}, -\frac{53}{291}, \frac{110}{291}, -\frac{53}{291}, \frac{11}{291}, \frac{19}{97})$ $+ \frac{163}{291}e^4 \otimes e_5 - \frac{163}{291}e^6 \otimes e_7 + \frac{1}{291}\sqrt{34882}e^1 \otimes e_2$	{1346, 1347, 1357, 246, 247, 257}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{2}{291}\sqrt{815}e^{12},$ $\frac{1}{291}\sqrt{16626}e^{13} + \frac{1}{291}\sqrt{2445}e^{45} + \frac{1}{291}\sqrt{2445}e^{67}$	$(\frac{29}{97}, -\frac{76}{291}, -\frac{10}{97}, \frac{110}{291}, -\frac{53}{291}, \frac{110}{291}, -\frac{53}{291}, \frac{11}{291}, \frac{19}{97})$ $+ \frac{163}{291}e^4 \otimes e_5 + \frac{163}{291}e^6 \otimes e_7 + \frac{1}{291}\sqrt{34882}e^1 \otimes e_2$	{1346, 1347, 1357, 246, 247, 257}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{4}e^{13} + \frac{1}{12}\sqrt{6}e^{45} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{12}\sqrt{21}e^3 \otimes e_8 + \frac{1}{4}\sqrt{3}e^2 \otimes e_9 + \frac{1}{4}e^5 \otimes e_4 + \frac{1}{4}e^7 \otimes e_6$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{15}e^{12}, \frac{1}{4}e^{13} + \frac{1}{12}\sqrt{6}e^{45} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $- \frac{1}{12}\sqrt{21}e^3 \otimes e_8 + \frac{1}{4}\sqrt{3}e^2 \otimes e_9 + \frac{1}{4}e^5 \otimes e_4 + \frac{1}{4}e^7 \otimes e_6$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{52}{4345}\sqrt{397}e^{12},$ $\frac{26}{4345}\sqrt{419}e^{13} + \frac{26}{4345}\sqrt{1142}e^{45} + \frac{26}{869}\sqrt{15}e^{67}$	$(\frac{26}{869}, \frac{52}{869}, -\frac{208}{4345}, -\frac{806}{4345}, \frac{728}{4345}, -\frac{39}{4345}, -\frac{39}{4345}, \frac{78}{869}, -\frac{78}{4345})$ $+ \frac{156}{4345}\sqrt{42}e^2 \otimes e_9 + \frac{26}{4345}\sqrt{1534}e^5 \otimes e_8 + \frac{78}{4345}\sqrt{107}e^1 \otimes e_3$	{1245, 124567, 23678, 238}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{20}{363}\sqrt{15}e^{12}, \frac{10}{121}\sqrt{34}e^{13} + \frac{10}{363}\sqrt{57}e^{45} + \frac{10}{363}\sqrt{57}e^{67}$	$(\frac{10}{121}, -\frac{40}{121}, \frac{20}{121}, -\frac{10}{121}, \frac{40}{121}, \frac{15}{121}, \frac{15}{121}, -\frac{30}{121}, \frac{30}{121})$ $+ \frac{10}{121}\sqrt{42}e^1 \otimes e_2 + \frac{20}{363}\sqrt{102}e^3 \otimes e_8 + \frac{50}{121}e^5 \otimes e_4$	{2468, 2568}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{2}{141}\sqrt{1122}e^{12}, \frac{4}{47}\sqrt{34}e^{13} + \frac{2}{141}\sqrt{102}e^{45} + \frac{2}{141}\sqrt{102}e^{67}$	$(-\frac{10}{47}, -\frac{2}{47}, \frac{22}{47}, \frac{23}{47}, -\frac{11}{47}, \frac{6}{47}, \frac{6}{47}, -\frac{12}{47}, \frac{12}{47})$ $+ \frac{2}{141}\sqrt{3774}e^3 \otimes e_8 + \frac{34}{47}e^4 \otimes e_5$	{12346, 12356, 2468, 2568}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{386}\sqrt{50794}e^{12},$ $\frac{1}{386}\sqrt{26795}e^{13} + \frac{1}{386}\sqrt{1398}e^{45} + \frac{1}{193}\sqrt{12815}e^{67}$	$(-\frac{4}{193}, -\frac{131}{772}, \frac{101}{386}, \frac{163}{386}, -\frac{35}{193}, \frac{319}{772}, -\frac{133}{772}, -\frac{147}{772}, \frac{93}{386})$ $+ \frac{1}{193}\sqrt{26329}e^6 \otimes e_8 + \frac{233}{386}e^4 \otimes e_5$	{12467, 12567, 148, 158, 2348, 2358, 3467, 3567}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{2}{143}\sqrt{2486}e^{12},$ $\frac{1}{143}\sqrt{2486}e^{13} + \frac{1}{143}\sqrt{7458}e^{45} + \frac{1}{143}\sqrt{7458}e^{67}$	$(-\frac{29}{143}, \frac{9}{13}, \frac{15}{143}, -\frac{7}{143}, -\frac{7}{143}, -\frac{7}{143}, -\frac{7}{143}, \frac{70}{143}, -\frac{14}{143})$ $+ \frac{3}{143}\sqrt{2938}e^2 \otimes e_9$	{123, 12345, 1234567, 14689, 245678, 2458, 28, 3469}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{53}e^{12}, \frac{1}{33}\sqrt{53}e^{13} + \frac{1}{33}\sqrt{159}e^{45} + \frac{1}{33}\sqrt{159}e^{67}$	$(\frac{4}{33}, \frac{3}{22}, \frac{2}{11}, \frac{21}{22}, -\frac{43}{66}, \frac{5}{33}, \frac{5}{33}, \frac{17}{66}, \frac{10}{33})$ $+ \frac{53}{33}e^4 \otimes e_5$	{12469, 12569, 14689, 15689, 234689, 235689, 3469, 3569}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{45}\sqrt{1122}e^{12}, \frac{2}{15}\sqrt{34}e^{13} + \frac{1}{45}\sqrt{102}e^{45} + \frac{1}{45}\sqrt{102}e^{67}$	$(-\frac{1}{3}, -\frac{1}{15}, \frac{11}{15}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, \frac{1}{5}, -\frac{2}{5}, \frac{2}{5})$ $+ \frac{1}{45}\sqrt{3774}e^3 \otimes e_8$	{12346, 1456789, 14589, 189, 2468, 345679, 3459, 39}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{256}\sqrt{2486}e^{12},$ $\frac{1}{256}\sqrt{2486}e^{13} + \frac{1}{256}\sqrt{7458}e^{45} + \frac{1}{256}\sqrt{7458}e^{67}$	$(-\frac{29}{256}, \frac{99}{256}, \frac{15}{256}, \frac{99}{256}, -\frac{127}{512}, \frac{99}{512}, -\frac{127}{512}, \frac{35}{128}, -\frac{7}{128})$ $+ \frac{113}{256}e^4 \otimes e_5 - \frac{113}{256}e^6 \otimes e_7 + \frac{3}{256}\sqrt{2938}e^2 \otimes e_9$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{1}{256}\sqrt{2486}e^{12},$ $\frac{1}{256}\sqrt{2486}e^{13} + \frac{1}{256}\sqrt{7458}e^{45} + \frac{1}{256}\sqrt{7458}e^{67}$	$(-\frac{29}{256}, \frac{99}{256}, \frac{15}{256}, \frac{99}{256}, -\frac{127}{512}, \frac{99}{512}, -\frac{127}{512}, \frac{35}{128}, -\frac{7}{128})$ $+ \frac{113}{256}e^4 \otimes e_5 + \frac{113}{256}e^6 \otimes e_7 + \frac{3}{256}\sqrt{2938}e^2 \otimes e_9$	{14689, 14789, 15789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, 0, \frac{4}{399}\sqrt{2486}e^{12},$ $\frac{2}{399}\sqrt{2486}e^{13} + \frac{2}{399}\sqrt{7458}e^{45} + \frac{2}{399}\sqrt{7458}e^{67}$	$(-\frac{58}{399}, \frac{66}{133}, \frac{10}{133}, \frac{33}{133}, -\frac{127}{399}, -\frac{2}{57}, -\frac{2}{57}, \frac{20}{57}, -\frac{4}{57})$ $+ \frac{226}{399}e^4 \otimes e_5 + \frac{2}{133}\sqrt{2938}e^2 \otimes e_9$	{14689, 15689, 3469, 3569}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:14	$0, 0, 0, 0, 0, 0, \frac{10}{219}\sqrt{15}e^{12}, \frac{5}{73}\sqrt{34}e^{13} + \frac{5}{219}\sqrt{57}e^{45} + \frac{5}{219}\sqrt{57}e^{67}$	$(\frac{5}{73}, -\frac{20}{73}, \frac{10}{73}, -\frac{5}{73}, \frac{20}{73}, -\frac{5}{73}, \frac{20}{73}, -\frac{15}{73}, \frac{15}{73})$ $+\frac{10}{219}\sqrt{102}e^3 \otimes e_8 + \frac{25}{73}e^5 \otimes e_4 - \frac{25}{73}e^7 \otimes e_6 + \frac{5}{73}\sqrt{42}e^1 \otimes e_2$	{2468, 2478, 2578}
92:14	$0, 0, 0, 0, 0, 0, \frac{13}{432}\sqrt{6}e^{13} + \frac{13}{432}\sqrt{139}e^{45} + \frac{13}{432}\sqrt{139}e^{67}$	$(\frac{65}{432}, \frac{65}{216}, -\frac{13}{54}, -\frac{13}{288}, -\frac{13}{288}, -\frac{13}{288}, -\frac{13}{288}, \frac{65}{144}, -\frac{13}{144})$ $+\frac{13}{432}\sqrt{314}e^1 \otimes e_3 + \frac{65}{144}\sqrt{2}e^2 \otimes e_9$	{12, 1245, 124567, 2345678, 23458, 238}
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{353}\sqrt{2290}e^{13} + \frac{2}{353}\sqrt{9389}e^{45} + \frac{1}{353}\sqrt{6870}e^{67}$	$(\frac{77}{353}, \frac{152}{353}, \frac{37}{353}, \frac{154}{353}, -\frac{40}{353}, \frac{57}{353}, \frac{57}{353}, -\frac{75}{353}, \frac{114}{353})$ $+\frac{2}{353}\sqrt{22213}e^4 \otimes e_8 + \frac{3}{353}\sqrt{5954}e^1 \otimes e_2$	{1368, 156789, 1589, 2356789, 23589, 268}
92:14	$0, 0, 0, 0, 0, 0, \frac{10}{219}\sqrt{15}e^{12}, \frac{5}{73}\sqrt{34}e^{13} + \frac{5}{219}\sqrt{57}e^{45} + \frac{5}{219}\sqrt{57}e^{67}$	$(\frac{5}{73}, -\frac{20}{73}, \frac{10}{73}, -\frac{5}{73}, \frac{20}{73}, -\frac{5}{73}, \frac{20}{73}, -\frac{15}{73}, \frac{15}{73})$ $+\frac{10}{219}\sqrt{102}e^3 \otimes e_8 + \frac{25}{73}e^5 \otimes e_4 + \frac{25}{73}e^7 \otimes e_6 + \frac{5}{73}\sqrt{42}e^1 \otimes e_2$	{2468, 2478, 2578}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{419}\sqrt{16626}e^{13} + \frac{4}{419}\sqrt{2445}e^{45} + \frac{2}{419}\sqrt{2445}e^{67}$	$(\frac{174}{419}, -\frac{152}{419}, -\frac{60}{419}, \frac{220}{419}, -\frac{106}{419}, \frac{57}{419}, \frac{57}{419}, \frac{22}{419}, \frac{114}{419})$ $+\frac{2}{419}\sqrt{34882}e^1 \otimes e_2 + \frac{326}{419}e^4 \otimes e_5$	{1346, 1356, 246, 256}
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{1717}\sqrt{90914}e^{13} + \frac{4}{1717}\sqrt{26719}e^{12}, \frac{1}{1717}\sqrt{386558}e^{45} + \frac{1}{1717}\sqrt{122838}e^{67}$	$(-\frac{311}{1717}, \frac{341}{1717}, \frac{305}{1717}, \frac{377}{1717}, -\frac{383}{1717}, -\frac{3}{1717}, -\frac{3}{1717}, \frac{30}{1717}, -\frac{6}{1717})$ $+\frac{3}{1717}\sqrt{60378}e^2 \otimes e_9 + \frac{4}{1717}\sqrt{32965}e^4 \otimes e_8$	{1245, 124567, 135689, 23678, 238, 469}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{27}\sqrt{170}e^{12}, \frac{2}{27}\sqrt{51}e^{13} + \frac{2}{27}\sqrt{34}e^{45} + \frac{2}{27}\sqrt{34}e^{67}$	$(\frac{20}{27}, -\frac{5}{27}, -\frac{14}{27}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{5}{9}, \frac{2}{9})$ $+\frac{2}{27}\sqrt{374}e^1 \otimes e_3$	{12, 1245, 124567, 145678, 1458, 18, 2345678, 23458, 238, 3, 345, 34567}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{443}\sqrt{7055}e^{13} + \frac{8}{443}\sqrt{913}e^{12}, \frac{2}{443}\sqrt{9794}e^{45} + \frac{2}{443}\sqrt{249}e^{67}$	$(\frac{122}{443}, -\frac{134}{443}, -\frac{44}{443}, \frac{154}{443}, -\frac{76}{443}, \frac{39}{443}, \frac{39}{443}, -\frac{12}{443}, \frac{78}{443})$ $+\frac{2}{443}\sqrt{19090}e^4 \otimes e_8 + \frac{6}{443}\sqrt{1577}e^1 \otimes e_3$	{1245, 124567, 1678, 18, 23678, 238, 345, 34567}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{3781}\sqrt{90914}e^{13} + \frac{8}{3781}\sqrt{26719}e^{12}, \frac{2}{3781}\sqrt{122838}e^{45} + \frac{2}{3781}\sqrt{386558}e^{67}$	$(-\frac{622}{3781}, \frac{682}{3781}, \frac{610}{3781}, \frac{341}{3781}, -\frac{353}{3781}, \frac{754}{3781}, -\frac{766}{3781}, \frac{60}{3781}, -\frac{12}{3781})$ $+\frac{694}{3781}e^4 \otimes e_5 + \frac{6}{3781}\sqrt{60378}e^2 \otimes e_9 + \frac{8}{3781}\sqrt{32965}e^6 \otimes e_8$	{134789, 135789, 469, 569}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{15}e^{12}, \frac{2}{21}e^{13} + \frac{2}{21}\sqrt{6}e^{45} + \frac{2}{21}\sqrt{6}e^{67}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, 0, 0, 0, 0)$ $-\frac{2}{21}\sqrt{21}e^3 \otimes e_8 + \frac{2}{7}\sqrt{3}e^2 \otimes e_9 + \frac{2}{7}e^5 \otimes e_4$	{14689, 15689, 3469, 3569}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{15}e^{12}, \frac{2}{21}e^{13} + \frac{2}{21}\sqrt{6}e^{45} + \frac{2}{21}\sqrt{6}e^{67}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{2}{7}, -\frac{1}{7}, \frac{1}{7}, 0, 0, 0, 0)$ $+\frac{2}{21}\sqrt{21}e^3 \otimes e_8 + \frac{2}{7}\sqrt{3}e^2 \otimes e_9 + \frac{2}{7}e^5 \otimes e_4$	{14689, 15689, 3469, 3569}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{935}\sqrt{2290}e^{13} + \frac{2}{935}\sqrt{6870}e^{45} + \frac{4}{935}\sqrt{9389}e^{67}$	$(\frac{14}{85}, -\frac{304}{935}, \frac{74}{935}, \frac{343}{935}, -\frac{23}{187}, \frac{28}{85}, -\frac{16}{187}, -\frac{30}{187}, \frac{228}{935})$ $+\frac{458}{935}e^4 \otimes e_5 + \frac{4}{935}\sqrt{22213}e^6 \otimes e_8 + \frac{6}{935}\sqrt{5954}e^1 \otimes e_2$	{1348, 1358, 248, 258}
92:14	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{53}e^{12}, \frac{2}{119}\sqrt{53}e^{13} + \frac{2}{119}\sqrt{159}e^{45} + \frac{2}{119}\sqrt{159}e^{67}$	$(\frac{8}{119}, \frac{9}{119}, \frac{12}{119}, \frac{9}{17}, -\frac{43}{119}, \frac{9}{17}, -\frac{43}{119}, \frac{1}{7}, \frac{20}{119})$ $+\frac{106}{119}e^4 \otimes e_5 - \frac{106}{119}e^6 \otimes e_7$	{12469, 12479, 12579, 14689, 14789, 15789, 234689, 234789, 235789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, \frac{4}{119}\sqrt{53}e^{12}, \frac{2}{119}\sqrt{53}e^{13} + \frac{2}{119}\sqrt{159}e^{45} + \frac{2}{119}\sqrt{159}e^{67}$	$(\frac{8}{119}, \frac{9}{119}, \frac{12}{119}, \frac{9}{17}, -\frac{43}{119}, \frac{9}{17}, -\frac{43}{119}, \frac{1}{7}, \frac{20}{119})$ $+\frac{106}{119}e^4 \otimes e_5 + \frac{106}{119}e^6 \otimes e_7$	{12469, 12479, 12579, 14689, 14789, 15789, 234689, 234789, 235789, 3469, 3479, 3579}
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{96}\sqrt{1122}e^{12}, \frac{1}{16}\sqrt{34}e^{13} + \frac{1}{96}\sqrt{102}e^{45} + \frac{1}{96}\sqrt{102}e^{67}$	$(-\frac{5}{32}, -\frac{1}{32}, \frac{11}{32}, \frac{23}{64}, -\frac{11}{64}, \frac{23}{64}, -\frac{11}{64}, -\frac{3}{16}, \frac{3}{16})$ $+\frac{17}{32}e^4 \otimes e_5 + \frac{17}{32}e^6 \otimes e_7 + \frac{1}{96}\sqrt{3774}e^3 \otimes e_8$	{12346, 12347, 12357, 2468, 2478, 2578}
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{96}\sqrt{1122}e^{12}, \frac{1}{16}\sqrt{34}e^{13} + \frac{1}{96}\sqrt{102}e^{45} + \frac{1}{96}\sqrt{102}e^{67}$	$(-\frac{5}{32}, -\frac{1}{32}, \frac{11}{32}, \frac{23}{64}, -\frac{11}{64}, \frac{23}{64}, -\frac{11}{64}, -\frac{3}{16}, \frac{3}{16})$ $+\frac{17}{32}e^4 \otimes e_5 - \frac{17}{32}e^6 \otimes e_7 + \frac{1}{96}\sqrt{3774}e^3 \otimes e_8$	{12346, 12347, 12357, 2468, 2478, 2578}
92:14	$0, 0, 0, 0, 0, 0, \frac{2}{539}\sqrt{50794}e^{12}, \frac{2}{539}\sqrt{26795}e^{13} + \frac{4}{539}\sqrt{12815}e^{45} + \frac{2}{539}\sqrt{1398}e^{67}$	$(-\frac{16}{539}, -\frac{131}{539}, \frac{202}{539}, \frac{29}{49}, -\frac{19}{77}, \frac{93}{539}, \frac{93}{539}, -\frac{3}{11}, \frac{186}{539})$ $+\frac{4}{539}\sqrt{26329}e^4 \otimes e_8$	{1234679, 12349, 12456, 1356789, 13589, 168, 2368, 256789, 2589, 3456, 4679, 49}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{15}e^{12}, \frac{1}{3}e^{13} + \frac{1}{9}\sqrt{6}e^{45} + \frac{1}{9}\sqrt{6}e^{67}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{3}e^2 \otimes e_9 - \frac{1}{9}\sqrt{21}e^3 \otimes e_8$	{123, 12345, 1234567, 14689, 245678, 2458, 28, 3469}
92:14	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{15}e^{12}, \frac{1}{3}e^{13} + \frac{1}{9}\sqrt{6}e^{45} + \frac{1}{9}\sqrt{6}e^{67}$	$(-\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0, 0, 0, 0)$ $+ \frac{1}{3}\sqrt{3}e^2 \otimes e_9 + \frac{1}{9}\sqrt{21}e^3 \otimes e_8$	{123, 12345, 1234567, 14689, 245678, 2458, 28, 3469}
92:15	$0, 0, 0, 0, 0, 0, \frac{3}{217}\sqrt{130}e^{12} + \frac{6}{217}\sqrt{170}e^{34}, \frac{3}{217}\sqrt{130}e^{15} + \frac{6}{217}\sqrt{170}e^{67}$	$(-\frac{3}{217}, \frac{10}{217}, \frac{52}{217}, -\frac{45}{217}, \frac{10}{217}, \frac{52}{217}, -\frac{45}{217}, \frac{1}{31}, \frac{1}{31})$ $+ \frac{3}{217}\sqrt{970}e^3 \otimes e_9 + \frac{3}{217}\sqrt{970}e^6 \otimes e_8$	{1234567, 1269, 14789, 238, 245789, 3467}
92:15	$0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{737}e^{12} + \frac{2}{213}\sqrt{402}e^{34},$ $\frac{4}{213}\sqrt{335}e^{15} + \frac{2}{213}\sqrt{2814}e^{67}$	$(-\frac{38}{213}, \frac{34}{71}, \frac{32}{213}, \frac{32}{213}, \frac{2}{71}, \frac{17}{71}, -\frac{83}{213}, \frac{64}{213}, -\frac{32}{213})$ $+ \frac{134}{213}e^6 \otimes e_7 + \frac{4}{213}\sqrt{2010}e^2 \otimes e_9$	{134689, 134789, 1689, 1789, 3569, 3579}
92:15	$0, 0, 0, 0, 0, 0, \frac{6}{449}\sqrt{2082}e^{12} + \frac{2}{449}\sqrt{3470}e^{34},$ $\frac{1}{449}\sqrt{19779}e^{15} + \frac{1}{449}\sqrt{17697}e^{67}$	$(\frac{196}{449}, -\frac{60}{449}, \frac{483}{898}, -\frac{211}{898}, -\frac{151}{449}, \frac{45}{898}, \frac{45}{898}, \frac{136}{449}, \frac{45}{449})$ $+ \frac{1}{449}\sqrt{157885}e^1 \otimes e_5 + \frac{347}{449}e^3 \otimes e_4$	{123, 12367, 124, 12467, 35, 3567, 45, 4567}
92:15	$0, 0, 0, 0, 0, 0, \frac{3}{1337}\sqrt{446}e^{12} + \frac{5}{1337}\sqrt{6690}e^{34},$ $\frac{1}{1337}\sqrt{81618}e^{15} + \frac{1}{1337}\sqrt{141382}e^{67}$	$(\frac{134}{1337}, -\frac{89}{1337}, \frac{297}{1337}, -\frac{36}{191}, -\frac{60}{1337}, \frac{268}{1337}, -\frac{194}{1337}, \frac{45}{1337}, \frac{74}{1337})$ $+ \frac{1}{1337}\sqrt{90538}e^1 \otimes e_2 + \frac{2}{1337}\sqrt{51513}e^6 \otimes e_8 + \frac{3}{1337}\sqrt{27206}e^3 \otimes e_9$	{1358, 14789, 238, 245789}
92:15	$0, 0, 0, 0, 0, 0, \frac{1}{122}\sqrt{1633}e^{12} + \frac{1}{244}\sqrt{1794}e^{34},$ $\frac{23}{244}\sqrt{2}e^{15} + \frac{1}{244}\sqrt{7130}e^{67}$	$(-\frac{37}{244}, \frac{43}{244}, \frac{13}{122}, -\frac{5}{61}, \frac{17}{122}, \frac{13}{61}, -\frac{55}{244}, \frac{122}{244}, -\frac{3}{244})$ $+ \frac{1}{122}\sqrt{2461}e^6 \otimes e_8 + \frac{1}{244}\sqrt{8418}e^2 \otimes e_9 + \frac{23}{122}e^3 \otimes e_4$	{135789, 145789, 2358, 2458}
92:15	$0, 0, 0, 0, 0, 0, \frac{28}{137}\sqrt{5}e^{12} + \frac{7}{137}\sqrt{19}e^{34}, \frac{14}{137}e^{15} + \frac{14}{137}\sqrt{11}e^{67}$	$(\frac{14}{137}, \frac{28}{137}, \frac{21}{137}, \frac{21}{137}, -\frac{35}{137}, \frac{14}{137}, -\frac{35}{137}, \frac{42}{137}, -\frac{21}{137})$ $+ \frac{49}{137}e^6 \otimes e_7 + \frac{7}{137}\sqrt{113}e^2 \otimes e_9 + \frac{7}{137}\sqrt{89}e^1 \otimes e_5$	{134689, 134789, 1689, 1789, 3569, 3579}
92:15	$0, 0, 0, 0, 0, 0, \frac{28}{137}\sqrt{5}e^{12} + \frac{7}{137}\sqrt{19}e^{34}, \frac{14}{137}e^{15} + \frac{14}{137}\sqrt{11}e^{67}$	$(\frac{14}{137}, \frac{28}{137}, \frac{21}{137}, \frac{21}{137}, -\frac{35}{137}, \frac{14}{137}, -\frac{35}{137}, \frac{42}{137}, -\frac{21}{137})$ $- \frac{49}{137}e^6 \otimes e_7 + \frac{7}{137}\sqrt{113}e^2 \otimes e_9 + \frac{7}{137}\sqrt{89}e^1 \otimes e_5$	{134689, 134789, 1689, 1789, 3569, 3579}
92:15	$0, 0, 0, 0, 0, 0, \frac{2}{221}\sqrt{1633}e^{12} + \frac{1}{221}\sqrt{1794}e^{34},$ $\frac{23}{221}\sqrt{2}e^{15} + \frac{1}{221}\sqrt{7130}e^{67}$	$(-\frac{37}{221}, \frac{43}{221}, \frac{3}{221}, \frac{3}{221}, \frac{2}{13}, \frac{4}{17}, -\frac{55}{221}, \frac{6}{221}, -\frac{3}{221})$ $+ \frac{1}{221}\sqrt{8418}e^2 \otimes e_9 + \frac{2}{221}\sqrt{2461}e^6 \otimes e_8$	{123467, 1267, 135789, 2358, 3469, 69}
92:15	$0, 0, 0, 0, 0, 0, \frac{28}{323}e^{12} + \frac{28}{323}\sqrt{11}e^{34}, \frac{56}{323}\sqrt{5}e^{15} + \frac{14}{323}\sqrt{19}e^{67}$	$(\frac{28}{323}, -\frac{70}{323}, \frac{28}{323}, -\frac{70}{323}, \frac{56}{323}, -\frac{7}{323}, \frac{91}{323}, -\frac{42}{323}, \frac{84}{323})$ $+ \frac{14}{323}\sqrt{113}e^5 \otimes e_8 + \frac{14}{323}\sqrt{89}e^1 \otimes e_2 - \frac{98}{323}e^3 \otimes e_4 + \frac{98}{323}e^7 \otimes e_6$	{2368, 2378, 2468, 2478}
92:15	$0, 0, 0, 0, 0, 0, \frac{28}{323}e^{12} + \frac{28}{323}\sqrt{11}e^{34}, \frac{56}{323}\sqrt{5}e^{15} + \frac{14}{323}\sqrt{19}e^{67}$	$(\frac{28}{323}, -\frac{70}{323}, \frac{28}{323}, -\frac{70}{323}, \frac{56}{323}, -\frac{7}{323}, \frac{91}{323}, -\frac{42}{323}, \frac{84}{323})$ $+ \frac{14}{323}\sqrt{113}e^5 \otimes e_8 + \frac{14}{323}\sqrt{89}e^1 \otimes e_2 + \frac{98}{323}e^3 \otimes e_4 + \frac{98}{323}e^7 \otimes e_6$	{2368, 2378, 2468, 2478}
92:15	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{737}e^{12} + \frac{1}{73}\sqrt{402}e^{34}, \frac{2}{73}\sqrt{335}e^{15} + \frac{1}{73}\sqrt{2814}e^{67}$	$(-\frac{19}{73}, \frac{51}{73}, \frac{16}{73}, \frac{16}{73}, \frac{3}{73}, -\frac{8}{73}, -\frac{8}{73}, \frac{32}{73}, -\frac{16}{73})$ $+ \frac{2}{73}\sqrt{2010}e^2 \otimes e_9$	{1235, 123567, 134689, 1689, 234678, 2348, 2678, 28, 3569}
92:15	$0, 0, 0, 0, 0, 0, \frac{14}{1115}\sqrt{83}e^{12} + \frac{14}{1115}\sqrt{305}e^{34},$ $\frac{14}{1115}\sqrt{370}e^{15} + \frac{14}{1115}\sqrt{39}e^{67}$	$(\frac{28}{1115}, -\frac{14}{223}, \frac{182}{1115}, -\frac{224}{1115}, \frac{56}{1115}, -\frac{7}{1115}, \frac{91}{1115}, -\frac{42}{1115}, \frac{84}{1115})$ $+ \frac{14}{1115}\sqrt{345}e^5 \otimes e_8 + \frac{14}{1115}\sqrt{406}e^3 \otimes e_9 + \frac{42}{1115}\sqrt{26}e^1 \otimes e_2 + \frac{98}{1115}e^7 \otimes e_6$	{2569, 2579}
92:15	$0, 0, 0, 0, 0, 0, \frac{1}{70}\sqrt{737}e^{12} + \frac{1}{140}\sqrt{402}e^{34}, \frac{1}{70}\sqrt{335}e^{15} + \frac{1}{140}\sqrt{2814}e^{67}$	$(-\frac{19}{140}, \frac{51}{140}, \frac{99}{280}, -\frac{1}{8}, \frac{3}{140}, \frac{51}{280}, -\frac{83}{280}, \frac{8}{35}, -\frac{4}{35})$ $+ \frac{1}{70}\sqrt{2010}e^2 \otimes e_9 + \frac{67}{140}e^3 \otimes e_4 + \frac{67}{140}e^6 \otimes e_7$	{3569, 3579, 4569, 4579}
92:15	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{3}e^{12} + \frac{1}{12}\sqrt{6}e^{34}, \frac{1}{6}\sqrt{3}e^{15} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{4}e^3 \otimes e_4 + \frac{1}{4}e^7 \otimes e_6 + \frac{1}{6}\sqrt{6}e^2 \otimes e_9 + \frac{1}{6}\sqrt{6}e^5 \otimes e_8$	{13689, 13789, 14689}
92:15	$0, 0, 0, 0, 0, 0, \frac{1}{6}\sqrt{3}e^{12} + \frac{1}{12}\sqrt{6}e^{34}, \frac{1}{6}\sqrt{3}e^{15} + \frac{1}{12}\sqrt{6}e^{67}$	$(-\frac{1}{4}, \frac{1}{4}, \frac{1}{8}, -\frac{1}{8}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, 0, 0)$ $+ \frac{1}{4}e^3 \otimes e_4 + \frac{1}{4}e^7 \otimes e_6 + \frac{1}{6}\sqrt{6}e^2 \otimes e_9 - \frac{1}{6}\sqrt{6}e^5 \otimes e_8$	{13689, 13789, 14689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{56}{225}\sqrt{5}e^{12} + \frac{14}{225}\sqrt{19}e^{34}, \frac{28}{225}e^{15} + \frac{28}{225}\sqrt{11}e^{67}$	$(\frac{28}{225}, \frac{56}{225}, \frac{14}{75}, \frac{14}{75}, -\frac{14}{45}, -\frac{7}{75}, -\frac{7}{75}, \frac{28}{75}, -\frac{14}{75})$ $+ \frac{14}{225}\sqrt{113}e^2 \otimes e_9 + \frac{14}{225}\sqrt{89}e^1 \otimes e_5$	{134689, 1689, 3569}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{212}{581}\sqrt{2}e^{12} + \frac{4}{581}\sqrt{12137}e^{34}, \frac{4}{581}\sqrt{9805}e^{15} + \frac{8}{581}\sqrt{1749}e^{67}$	$(\frac{17}{581}, \frac{202}{581}, \frac{352}{581}, -\frac{19}{83}, -\frac{89}{581}, -\frac{36}{581}, -\frac{36}{581}, \frac{219}{581}, -\frac{72}{581})$ $+ \frac{4}{581}\sqrt{25705}e^3 \otimes e_9$	{1235678, 12358, 124689, 1345, 134567, 169, 234, 23467, 2569, 3678, 38, 45689}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{2}{1335}\sqrt{40602}e^{12} + \frac{2}{1335}\sqrt{62310}e^{34}, \frac{2}{1335}\sqrt{82410}e^{15} + \frac{2}{1335}\sqrt{21306}e^{67}$	$(\frac{104}{445}, -\frac{6}{89}, \frac{418}{1335}, -\frac{196}{1335}, -\frac{296}{1335}, \frac{209}{1335}, -\frac{193}{1335}, \frac{74}{445}, \frac{16}{1335})$ $+ \frac{134}{445}e^6 \otimes e_7 + \frac{2}{1335}\sqrt{123414}e^3 \otimes e_9 + \frac{2}{1335}\sqrt{81606}e^1 \otimes e_2$	{169, 179, 2569, 2579}
92:15	$0, 0, 0, 0, 0, 0, \frac{2}{551}\sqrt{19779}e^{12} + \frac{2}{551}\sqrt{17697}e^{34}, \frac{12}{551}\sqrt{2082}e^{15} + \frac{4}{551}\sqrt{3470}e^{67}$	$(\frac{392}{551}, -\frac{302}{551}, \frac{45}{551}, \frac{45}{551}, -\frac{120}{551}, \frac{136}{551}, \frac{136}{551}, \frac{90}{551}, \frac{272}{551})$ $+ \frac{2}{551}\sqrt{157885}e^1 \otimes e_2$	{13456, 134679, 1349, 156, 1679, 19, 2345679, 23459, 2346, 25679, 259, 26}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{7}{533}\sqrt{370}e^{12} + \frac{7}{533}\sqrt{39}e^{34}, \frac{7}{533}\sqrt{83}e^{15} + \frac{7}{533}\sqrt{305}e^{67}$	$(\frac{14}{533}, \frac{28}{533}, \frac{21}{533}, \frac{21}{533}, -\frac{35}{533}, \frac{7}{41}, -\frac{112}{533}, \frac{42}{533}, -\frac{21}{533})$ $+ \frac{21}{533}\sqrt{26}e^1 \otimes e_5 + \frac{7}{533}\sqrt{345}e^2 \otimes e_9 + \frac{7}{533}\sqrt{406}e^6 \otimes e_8$	{123467, 1267, 2358}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{4}{111}\sqrt{89}e^{12} + \frac{2}{111}\sqrt{534}e^{34}, \frac{4}{111}\sqrt{89}e^{15} + \frac{2}{111}\sqrt{534}e^{67}$	$(\frac{14}{111}, \frac{6}{37}, \frac{35}{37}, -\frac{73}{111}, \frac{6}{37}, \frac{16}{111}, \frac{16}{111}, \frac{32}{111}, \frac{32}{111})$ $+ \frac{178}{111}e^3 \otimes e_4$	{135678, 1358, 13689, 145678, 1458, 14689, 235689, 23678, 238, 245689, 24678, 248}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{1}{50}\sqrt{89}e^{12} + \frac{1}{100}\sqrt{534}e^{34}, \frac{1}{50}\sqrt{89}e^{15} + \frac{1}{100}\sqrt{534}e^{67}$	$(\frac{7}{100}, \frac{9}{100}, \frac{21}{40}, -\frac{73}{200}, \frac{9}{100}, \frac{21}{40}, -\frac{73}{200}, \frac{4}{25}, \frac{4}{25})$ $+ \frac{89}{100}e^3 \otimes e_4 + \frac{1}{100}e^6 \otimes e_7$	{13689, 13789, 14789, 235689, 235789, 245789}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{14}{137}e^{12} + \frac{14}{137}\sqrt{11}e^{34}, \frac{28}{137}\sqrt{5}e^{15} + \frac{7}{137}\sqrt{19}e^{67}$	$(\frac{14}{137}, -\frac{35}{137}, -\frac{21}{274}, -\frac{21}{274}, \frac{28}{137}, \frac{91}{274}, -\frac{7}{274}, -\frac{21}{137}, \frac{42}{137})$ $+ \frac{49}{137}e^6 \otimes e_7 + \frac{7}{137}\sqrt{113}e^5 \otimes e_8 + \frac{7}{137}\sqrt{89}e^1 \otimes e_2$	{2368, 2378}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{1}{567}\sqrt{40602}e^{12} + \frac{1}{567}\sqrt{62310}e^{34}, \frac{1}{567}\sqrt{82410}e^{15} + \frac{1}{567}\sqrt{21306}e^{67}$	$(\frac{52}{189}, -\frac{5}{63}, \frac{209}{567}, -\frac{14}{81}, -\frac{148}{567}, \frac{4}{567}, \frac{4}{37}, \frac{37}{567}, \frac{8}{567})$ $+ \frac{1}{567}\sqrt{123414}e^3 \otimes e_9 + \frac{1}{567}\sqrt{81606}e^1 \otimes e_2$	{1345, 134567, 169, 234, 23467, 2569}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{3}e^{12} + \frac{2}{21}\sqrt{6}e^{34}, \frac{4}{21}\sqrt{3}e^{15} + \frac{2}{21}\sqrt{6}e^{67}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, 0, 0)$ $+ \frac{2}{7}e^3 \otimes e_4 + \frac{4}{21}\sqrt{6}e^2 \otimes e_9 - \frac{4}{21}\sqrt{6}e^5 \otimes e_8$	{13689, 14689, 23678, 238, 24678, 248}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{4}{21}\sqrt{3}e^{12} + \frac{2}{21}\sqrt{6}e^{34}, \frac{4}{21}\sqrt{3}e^{15} + \frac{2}{21}\sqrt{6}e^{67}$	$(-\frac{2}{7}, \frac{2}{7}, \frac{1}{7}, -\frac{1}{7}, \frac{2}{7}, 0, 0, 0)$ $+ \frac{2}{7}e^3 \otimes e_4 + \frac{4}{21}\sqrt{6}e^2 \otimes e_9 + \frac{4}{21}\sqrt{6}e^5 \otimes e_8$	{13689, 14689, 23678, 238, 24678, 248}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{4}{213}\sqrt{737}e^{12} + \frac{2}{213}\sqrt{402}e^{34}, \frac{4}{213}\sqrt{335}e^{15} + \frac{2}{213}\sqrt{2814}e^{67}$	$(-\frac{38}{213}, \frac{34}{71}, \frac{33}{71}, -\frac{35}{213}, \frac{2}{71}, -\frac{16}{213}, -\frac{16}{213}, \frac{64}{213}, -\frac{32}{213})$ $+ \frac{134}{213}e^3 \otimes e_4 + \frac{4}{213}\sqrt{2010}e^2 \otimes e_9$	{1235, 123567, 1245, 124567, 3569, 4569}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{4}{793}\sqrt{9805}e^{12} + \frac{8}{793}\sqrt{1749}e^{34}, \frac{212}{793}\sqrt{2}e^{15} + \frac{4}{793}\sqrt{12137}e^{67}$	$(\frac{17}{793}, -\frac{89}{793}, \frac{176}{793}, -\frac{248}{793}, \frac{202}{793}, \frac{352}{793}, -\frac{133}{793}, -\frac{72}{793}, \frac{219}{793})$ $+ \frac{424}{793}e^3 \otimes e_4 + \frac{4}{793}\sqrt{25705}e^6 \otimes e_8$	{135789, 138, 145789, 148, 2358, 23789, 2458, 24789}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12} + \frac{1}{9}\sqrt{6}e^{34}, \frac{2}{9}\sqrt{3}e^{15} + \frac{1}{9}\sqrt{6}e^{67}$	$(-\frac{1}{3}, \frac{1}{3}, 0, 0, \frac{1}{3}, 0, 0, 0)$ $+ \frac{2}{9}\sqrt{6}e^2 \otimes e_9 + \frac{2}{9}\sqrt{6}e^5 \otimes e_8$	{12345, 1234567, 125, 13689, 23678, 238}
92:15	$0, 0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{3}e^{12} + \frac{1}{9}\sqrt{6}e^{34}, \frac{2}{9}\sqrt{3}e^{15} + \frac{1}{9}\sqrt{6}e^{67}$	$(-\frac{1}{3}, \frac{1}{3}, 0, 0, \frac{1}{3}, 0, 0, 0)$ $+ \frac{2}{9}\sqrt{6}e^2 \otimes e_9 - \frac{2}{9}\sqrt{6}e^5 \otimes e_8$	{12345, 1234567, 125, 13689, 23678, 238}
92:16	$0, 0, 0, 0, 0, 0, 0, \frac{100}{2209}\sqrt{11}e^{12} + \frac{50}{2209}\sqrt{506}e^{34}, \frac{100}{2209}\sqrt{33}e^{13} + \frac{50}{2209}\sqrt{385}e^{25} + \frac{50}{2209}\sqrt{3}e^{67}$	$(\frac{200}{2209}, \frac{550}{2209}, -\frac{350}{2209}, \frac{1100}{2209}, -\frac{700}{2209}, -\frac{75}{2209}, -\frac{75}{2209}, \frac{750}{2209}, -\frac{150}{2209})$ $+ \frac{150}{2209}\sqrt{67}e^2 \otimes e_5 + \frac{50}{2209}\sqrt{1318}e^4 \otimes e_9$	{1569, 35689}
92:16	$0, 0, 0, 0, 0, 0, 0, \frac{39}{269}\sqrt{6}e^{12} + \frac{52}{269}\sqrt{7}e^{34}, \frac{13}{269}\sqrt{14}e^{13} + \frac{26}{269}\sqrt{29}e^{25} + \frac{26}{269}\sqrt{3}e^{67}$	$(\frac{13}{269}, -\frac{52}{269}, \frac{65}{269}, -\frac{104}{269}, \frac{130}{269}, \frac{39}{269}, \frac{39}{269}, -\frac{39}{269}, \frac{78}{269})$ $+ \frac{117}{269}\sqrt{2}e^3 \otimes e_4 + \frac{13}{269}\sqrt{310}e^5 \otimes e_8$	{1468, 246789, 2489}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:16	$0, 0, 0, 0, 0, 0, \frac{4}{729}\sqrt{1415}e^{12} + \frac{2}{729}\sqrt{8490}e^{34},$ $\frac{2}{729}\sqrt{51506}e^{13} + \frac{4}{729}\sqrt{1415}e^{25} + \frac{2}{729}\sqrt{8490}e^{67}$	$(-\frac{10}{81}, \frac{112}{729}, \frac{98}{243}, -\frac{272}{729}, \frac{92}{729}, \frac{385}{729}, -\frac{181}{729}, \frac{22}{729}, \frac{68}{243})$ $+ \frac{2}{729}\sqrt{105842}e^3 \otimes e_4 + \frac{566}{729}e^6 \otimes e_7$	{1356, 1357, 246, 247}
92:16	$0, 0, 0, 0, 0, 0, \frac{225}{4549}\sqrt{22}e^{12} + \frac{50}{4549}\sqrt{583}e^{34},$ $\frac{50}{4549}\sqrt{299}e^{13} + \frac{25}{4549}\sqrt{30}e^{25} + \frac{50}{4549}\sqrt{734}e^{67}$	$(\frac{100}{4549}, \frac{275}{4549}, -\frac{175}{4549}, \frac{550}{4549}, -\frac{350}{4549}, \frac{1000}{4549}, -\frac{1075}{4549}, \frac{375}{4549}, -\frac{75}{4549})$ $+ \frac{125}{4549}\sqrt{166}e^6 \otimes e_8 + \frac{50}{4549}\sqrt{379}e^2 \otimes e_5 + \frac{525}{4549}\sqrt{6}e^4 \otimes e_9$	{1458, 34567}
92:16	$0, 0, 0, 0, 0, 0, \frac{2}{287}\sqrt{20822}e^{12} + \frac{4}{287}\sqrt{718}e^{34},$ $\frac{1}{287}\sqrt{13283}e^{13} + \frac{1}{287}\sqrt{19027}e^{25} + \frac{4}{287}\sqrt{2513}e^{67}$	$(-\frac{48}{287}, \frac{395}{574}, \frac{12}{41}, \frac{131}{574}, -\frac{323}{574}, \frac{18}{287}, \frac{18}{287}, \frac{299}{574}, \frac{36}{287})$ $+ \frac{2}{287}\sqrt{6821}e^2 \otimes e_5$	{124, 12467, 15678, 158, 234678, 2348, 35, 3567}
92:16	$0, 0, 0, 0, 0, 0, \frac{4}{589}\sqrt{9061}e^{12} + \frac{24}{589}\sqrt{205}e^{34},$ $\frac{8}{589}\sqrt{1763}e^{13} + \frac{164}{589}\sqrt{2}e^{25} + \frac{4}{589}\sqrt{11521}e^{67}$	$(\frac{35}{589}, -\frac{55}{589}, \frac{4}{31}, -\frac{96}{589}, \frac{166}{589}, \frac{308}{589}, -\frac{197}{589}, -\frac{20}{589}, \frac{111}{589})$ $+ \frac{4}{589}\sqrt{20705}e^6 \otimes e_8$	{1234569, 1267, 13789, 1458, 238, 245789, 34567, 69}
92:16	$0, 0, 0, 0, 0, 0, \frac{1}{58}\sqrt{93}e^{12} + \frac{3}{58}\sqrt{62}e^{34},$ $\frac{1}{58}\sqrt{93}e^{13} + \frac{1}{29}\sqrt{93}e^{25} + \frac{3}{58}\sqrt{62}e^{67}$	$(\frac{9}{58}, \frac{15}{116}, \frac{4}{29}, \frac{17}{116}, \frac{19}{116}, \frac{55}{58}, -\frac{19}{29}, \frac{33}{116}, \frac{17}{58})$ $+ \frac{93}{58}e^6 \otimes e_7$	{1269, 1279, 145689, 145789, 23689, 23789, 34569, 34579}
92:16	$0, 0, 0, 0, 0, 0, \frac{4}{1213}\sqrt{26381}e^{12} + \frac{4}{1213}\sqrt{46805}e^{34},$ $\frac{1}{1213}\sqrt{239982}e^{13} + \frac{19}{1213}\sqrt{1702}e^{25} + \frac{4}{1213}\sqrt{403374}e^{67}$	$(\frac{305}{1213}, \frac{85}{1213}, -\frac{383}{1213}, \frac{773}{1213}, -\frac{163}{1213}, \frac{39}{1213}, -\frac{39}{1213}, \frac{390}{1213}, -\frac{78}{1213})$ $+ \frac{1}{1213}\sqrt{1727530}e^4 \otimes e_9$	{134, 13467, 1569, 35689, 4678, 48}
92:16	$0, 0, 0, 0, 0, 0, \frac{3}{104}\sqrt{177}e^{12} + \frac{1}{104}\sqrt{3127}e^{34},$ $\frac{1}{104}\sqrt{2183}e^{13} + \frac{1}{52}\sqrt{767}e^{25} + \frac{1}{104}\sqrt{177}e^{67}$	$(\frac{17}{104}, -\frac{55}{208}, \frac{1}{26}, -\frac{29}{208}, \frac{97}{208}, \frac{5}{13}, -\frac{19}{104}, -\frac{21}{208}, \frac{21}{104})$ $+ \frac{59}{104}e^6 \otimes e_7 + \frac{5}{104}\sqrt{295}e^5 \otimes e_8$	{24689, 24789, 569, 579}
92:16	$0, 0, 0, 0, 0, 0, \frac{8}{3277}\sqrt{26381}e^{12} + \frac{8}{3277}\sqrt{46805}e^{34},$ $\frac{2}{3277}\sqrt{239982}e^{13} + \frac{38}{3277}\sqrt{1702}e^{25} + \frac{4}{3277}\sqrt{403374}e^{67}$	$(\frac{610}{3277}, \frac{170}{3277}, -\frac{766}{3277}, \frac{1546}{3277}, -\frac{326}{3277}, \frac{773}{3277}, -\frac{929}{3277}, \frac{780}{3277}, -\frac{156}{3277})$ $+ \frac{1702}{3277}e^6 \otimes e_7 + \frac{2}{3277}\sqrt{1727530}e^4 \otimes e_9$	{1569, 1579, 35689, 35789}
92:16	$0, 0, 0, 0, 0, 0, \frac{78}{707}\sqrt{6}e^{12} + \frac{104}{707}\sqrt{7}e^{34},$ $\frac{26}{707}\sqrt{14}e^{13} + \frac{52}{707}\sqrt{29}e^{25} + \frac{52}{707}\sqrt{3}e^{67}$	$(\frac{26}{707}, -\frac{104}{707}, \frac{130}{707}, -\frac{208}{707}, \frac{260}{707}, \frac{247}{707}, -\frac{13}{101}, -\frac{78}{707}, \frac{156}{707})$ $+ \frac{234}{707}\sqrt{2}e^3 \otimes e_4 + \frac{26}{707}\sqrt{310}e^5 \otimes e_8 + \frac{338}{707}e^6 \otimes e_7$	{1468, 1478}
92:16	$0, 0, 0, 0, 0, 0, \frac{33}{481}\sqrt{42}e^{12} + \frac{11}{481}\sqrt{154}e^{34},$ $\frac{11}{481}\sqrt{206}e^{13} + \frac{11}{481}\sqrt{138}e^{25} + \frac{11}{481}\sqrt{326}e^{67}$	$(-\frac{44}{481}, \frac{77}{481}, \frac{77}{481}, -\frac{44}{481}, -\frac{44}{481}, \frac{154}{481}, -\frac{121}{481}, \frac{33}{481}, \frac{33}{481})$ $+ \frac{11}{481}\sqrt{310}e^2 \otimes e_5 + \frac{33}{481}\sqrt{2}e^3 \otimes e_4 + \frac{55}{481}\sqrt{22}e^6 \otimes e_8$	{1458, 238}
92:16	$0, 0, 0, 0, 0, 0, \frac{50}{1417}\sqrt{11}e^{12} + \frac{25}{1417}\sqrt{506}e^{34},$ $\frac{50}{1417}\sqrt{33}e^{13} + \frac{25}{1417}\sqrt{385}e^{25} + \frac{25}{1417}\sqrt{3}e^{67}$	$(\frac{100}{1417}, \frac{275}{1417}, -\frac{175}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{1318}e^4 \otimes e_9 + \frac{625}{1417}e^6 \otimes e_7 + \frac{75}{1417}\sqrt{67}e^2 \otimes e_5$	{1569, 1579, 35689, 35789}
92:16	$0, 0, 0, 0, 0, 0, \frac{50}{1417}\sqrt{11}e^{12} + \frac{25}{1417}\sqrt{506}e^{34},$ $\frac{50}{1417}\sqrt{33}e^{13} + \frac{25}{1417}\sqrt{385}e^{25} + \frac{25}{1417}\sqrt{3}e^{67}$	$(\frac{100}{1417}, \frac{275}{1417}, -\frac{175}{1417}, \frac{550}{1417}, -\frac{350}{1417}, \frac{275}{1417}, -\frac{350}{1417}, \frac{375}{1417}, -\frac{75}{1417})$ $+ \frac{25}{1417}\sqrt{1318}e^4 \otimes e_9 - \frac{625}{1417}e^6 \otimes e_7 + \frac{75}{1417}\sqrt{67}e^2 \otimes e_5$	{1569, 1579, 35689, 35789}
92:16	$0, 0, 0, 0, 0, 0, \frac{52}{581}\sqrt{37}e^{12} + \frac{8}{581}\sqrt{1221}e^{34},$ $\frac{8}{581}\sqrt{814}e^{13} + \frac{148}{581}\sqrt{2}e^{25} + \frac{4}{581}\sqrt{7881}e^{67}$	$(-\frac{9}{581}, -\frac{23}{581}, \frac{132}{581}, -\frac{164}{581}, \frac{146}{581}, \frac{264}{581}, -\frac{141}{581}, -\frac{32}{581}, \frac{123}{581})$ $+ \frac{36}{581}\sqrt{185}e^6 \otimes e_8 + \frac{8}{581}\sqrt{962}e^3 \otimes e_4$	{13789, 1458, 238, 245789}
92:16	$0, 0, 0, 0, 0, 0, \frac{2}{33}\sqrt{3}e^{12} + \frac{2}{33}\sqrt{33}e^{34},$ $\frac{2}{33}\sqrt{6}e^{13} + \frac{2}{33}\sqrt{30}e^{25} + \frac{2}{11}e^{67}$	$(\frac{2}{11}, -\frac{2}{11}, -\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{1}{11}, -\frac{1}{11}, 0, 0)$ $+ \frac{2}{11}e^6 \otimes e_7 + \frac{2}{33}\sqrt{39}e^5 \otimes e_8 + \frac{2}{33}\sqrt{42}e^4 \otimes e_9$	{123689, 123789}
92:16	$0, 0, 0, 0, 0, 0, \frac{6}{149}\sqrt{177}e^{12} + \frac{2}{149}\sqrt{3127}e^{34},$ $\frac{2}{149}\sqrt{2183}e^{13} + \frac{4}{149}\sqrt{767}e^{25} + \frac{2}{149}\sqrt{177}e^{67}$	$(\frac{34}{149}, -\frac{55}{149}, \frac{8}{149}, -\frac{29}{149}, \frac{97}{149}, \frac{21}{149}, \frac{21}{149}, -\frac{21}{149}, \frac{42}{149})$ $+ \frac{10}{149}\sqrt{295}e^5 \otimes e_8$	{125, 12567, 14678, 148, 24689, 569}
92:16	$0, 0, 0, 0, 0, 0, \frac{36}{1309}\sqrt{51}e^{12} + \frac{36}{1309}\sqrt{165}e^{34},$ $\frac{27}{187}\sqrt{2}e^{13} + \frac{9}{1309}\sqrt{438}e^{25} + \frac{36}{1309}\sqrt{2766}e^{67}$	$(\frac{145}{1309}, -\frac{75}{1309}, -\frac{159}{1309}, \frac{229}{1309}, \frac{61}{1309}, \frac{313}{1309}, -\frac{327}{1309}, \frac{10}{187}, -\frac{2}{187})$ $+ \frac{144}{1309}\sqrt{15}e^6 \otimes e_8 + \frac{9}{1309}\sqrt{3210}e^4 \otimes e_9$	{135789, 148, 3467, 569}
92:16	$0, 0, 0, 0, 0, 0, \frac{44}{1011}\sqrt{138}e^{12} + \frac{44}{1011}\sqrt{66}e^{34},$ $\frac{22}{1011}\sqrt{546}e^{13} + \frac{22}{1011}\sqrt{267}e^{25} + \frac{22}{337}e^{67}$	$(-\frac{88}{337}, \frac{154}{337}, \frac{154}{337}, -\frac{88}{337}, -\frac{88}{337}, \frac{33}{337}, \frac{33}{337}, \frac{66}{337}, \frac{66}{337})$ $+ \frac{22}{1011}\sqrt{1362}e^3 \otimes e_4 + \frac{22}{1011}\sqrt{1365}e^2 \otimes e_5$	{123, 12367, 45, 4567}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:16	$0, 0, 0, 0, 0, 0, \frac{10}{373}\sqrt{282}e^{12} + \frac{2}{373}\sqrt{2914}e^{34},$ $\frac{2}{373}\sqrt{3995}e^{13} + \frac{6}{373}\sqrt{282}e^{25} + \frac{2}{373}\sqrt{6110}e^{67}$	$(-\frac{32}{373}, \frac{59}{373}, \frac{56}{373}, -\frac{29}{373}, -\frac{35}{373}, \frac{121}{373}, -\frac{97}{373}, \frac{27}{373}, \frac{24}{373})$ $+ \frac{2}{373}\sqrt{10246}e^6 \otimes e_8 + \frac{2}{373}\sqrt{5734}e^2 \otimes e_5$	{1267, 1458, 238, 34567}
92:16	$0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{3}e^{12} + \frac{1}{15}\sqrt{33}e^{34},$ $\frac{1}{15}\sqrt{6}e^{13} + \frac{1}{15}\sqrt{30}e^{25} + \frac{1}{15}e^{67}$	$(\frac{1}{5}, -\frac{1}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{1}{5}, 0, 0, 0, 0)$ $+ \frac{1}{15}\sqrt{39}e^5 \otimes e_8 + \frac{1}{15}\sqrt{42}e^4 \otimes e_9$	{123689, 2345, 234567}
92:16	$0, 0, 0, 0, 0, 0, \frac{2}{223}\sqrt{1415}e^{12} + \frac{1}{223}\sqrt{8490}e^{34},$ $\frac{1}{223}\sqrt{51506}e^{13} + \frac{2}{223}\sqrt{1415}e^{25} + \frac{1}{223}\sqrt{8490}e^{67}$	$(-\frac{45}{223}, \frac{56}{223}, \frac{147}{223}, -\frac{136}{223}, \frac{46}{223}, \frac{51}{223}, \frac{51}{223}, \frac{11}{223}, \frac{102}{223})$ $+ \frac{1}{223}\sqrt{105842}e^3 \otimes e_4$	{1356, 14679, 149, 235679, 2359, 246}
92:17	$0, 0, 0, 0, 0, 0, \frac{2}{9}\sqrt{14}e^{12} + \frac{1}{27}\sqrt{42}e^{34},$ $\frac{1}{27}\sqrt{210}e^{15} + \frac{1}{27}\sqrt{210}e^{26} + \frac{2}{9}\sqrt{14}e^{37}$	$(-\frac{1}{9}, -\frac{1}{9}, -\frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{1}{9}, \frac{5}{9}, -\frac{2}{9}, \frac{2}{9})$ $+ \frac{1}{27}\sqrt{966}e^7 \otimes e_8$	{12347, 125679, 13589, 1468, 34567, 79}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{41}\sqrt{170}e^{12} + \frac{5}{41}\sqrt{2}e^{34},$ $\frac{4}{41}\sqrt{5}e^{15} + \frac{4}{41}\sqrt{5}e^{26} + \frac{1}{41}\sqrt{170}e^{37}$	$(\frac{4}{41}, -\frac{7}{41}, \frac{1}{41}, -\frac{4}{41}, -\frac{1}{41}, \frac{10}{41}, \frac{2}{41}, -\frac{3}{41}, \frac{3}{41})$ $+ \frac{1}{41}\sqrt{110}e^1 \otimes e_5 + \frac{1}{41}\sqrt{110}e^3 \otimes e_4 + \frac{1}{41}\sqrt{170}e^7 \otimes e_8$	{1237, 3567}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{69}\sqrt{1030}e^{12} + \frac{1}{138}\sqrt{3914}e^{34},$ $\frac{1}{138}\sqrt{206}e^{15} + \frac{1}{138}\sqrt{206}e^{26} + \frac{1}{138}\sqrt{103}e^{37}$	$(\frac{29}{69}, -\frac{7}{276}, \frac{29}{69}, -\frac{7}{276}, -\frac{15}{46}, \frac{11}{92}, -\frac{15}{46}, \frac{109}{276}, \frac{13}{138})$ $+ \frac{1}{138}\sqrt{12566}e^3 \otimes e_7 + \frac{1}{138}\sqrt{12669}e^1 \otimes e_5$	{1234, 127, 1368, 14678, 2358, 24578, 3456, 567}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{69}\sqrt{1030}e^{12} + \frac{1}{138}\sqrt{3914}e^{34},$ $\frac{1}{138}\sqrt{206}e^{15} + \frac{1}{138}\sqrt{206}e^{26} + \frac{1}{138}\sqrt{103}e^{37}$	$(\frac{29}{69}, -\frac{7}{276}, \frac{29}{69}, -\frac{7}{276}, -\frac{15}{46}, \frac{11}{92}, -\frac{15}{46}, \frac{109}{276}, \frac{13}{138})$ $- \frac{1}{138}\sqrt{12566}e^3 \otimes e_7 + \frac{1}{138}\sqrt{12669}e^1 \otimes e_5$	{1234, 127, 1368, 14678, 2358, 24578, 3456, 567}
92:17	$0, 0, 0, 0, 0, 0, \frac{13}{756}\sqrt{13}e^{12} + \frac{247}{756}\sqrt{2}e^{34},$ $\frac{13}{756}\sqrt{409}e^{15} + \frac{13}{756}\sqrt{409}e^{26} + \frac{13}{756}\sqrt{186}e^{37}$	$(\frac{65}{504}, \frac{65}{504}, \frac{65}{756}, \frac{65}{378}, -\frac{13}{72}, -\frac{13}{72}, -\frac{26}{46}, \frac{65}{189}, -\frac{13}{252})$ $+ \frac{13}{252}\sqrt{94}e^4 \otimes e_9 + \frac{13}{756}\sqrt{530}e^3 \otimes e_7$	{1245678, 1345, 478}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{81}\sqrt{2910}e^{12} + \frac{1}{81}\sqrt{7178}e^{34},$ $\frac{1}{81}\sqrt{2134}e^{15} + \frac{1}{81}\sqrt{2134}e^{26} + \frac{1}{81}\sqrt{2910}e^{37}$	$(\frac{2}{9}, \frac{2}{9}, \frac{59}{81}, -\frac{23}{81}, \frac{1}{27}, \frac{1}{27}, -\frac{38}{81}, \frac{4}{9}, \frac{7}{27})$ $+ \frac{1}{81}\sqrt{12998}e^3 \otimes e_7$	{123568, 1245678, 1345, 157, 38, 478}
92:17	$0, 0, 0, 0, 0, 0, \frac{2}{57}\sqrt{58}e^{12} + \frac{1}{171}\sqrt{138}e^{34},$ $\frac{2}{171}\sqrt{201}e^{15} + \frac{2}{171}\sqrt{201}e^{26} + \frac{4}{19}e^{37}$	$(\frac{1}{57}, \frac{1}{57}, -\frac{8}{57}, \frac{10}{57}, -\frac{1}{19}, -\frac{1}{19}, \frac{2}{19}, \frac{2}{57}, -\frac{2}{57})$ $+ \frac{2}{171}\sqrt{390}e^7 \otimes e_8 + \frac{2}{57}\sqrt{33}e^1 \otimes e_5 - \frac{2}{57}\sqrt{33}e^2 \otimes e_6$	{1237, 168, 3567}
92:17	$0, 0, 0, 0, 0, 0, \frac{2}{57}\sqrt{58}e^{12} + \frac{1}{171}\sqrt{138}e^{34},$ $\frac{2}{171}\sqrt{201}e^{15} + \frac{2}{171}\sqrt{201}e^{26} + \frac{4}{19}e^{37}$	$(\frac{1}{57}, \frac{1}{57}, -\frac{8}{57}, \frac{10}{57}, -\frac{1}{19}, -\frac{1}{19}, \frac{2}{19}, \frac{2}{57}, -\frac{2}{57})$ $+ \frac{2}{171}\sqrt{390}e^7 \otimes e_8 + \frac{2}{57}\sqrt{33}e^1 \otimes e_5 + \frac{2}{57}\sqrt{33}e^2 \otimes e_6$	{1237, 168, 3567}
92:17	$0, 0, 0, 0, 0, 0, \frac{13}{6685}\sqrt{2470}e^{12} + \frac{39}{6685}\sqrt{662}e^{34},$ $\frac{13}{6685}\sqrt{4182}e^{15} + \frac{13}{6685}\sqrt{545}e^{26} + \frac{39}{6685}\sqrt{226}e^{37}$	$(-\frac{403}{6685}, \frac{598}{6685}, \frac{13}{1337}, \frac{26}{1337}, \frac{52}{955}, -\frac{91}{955}, -\frac{104}{6685}, \frac{39}{1337}, -\frac{39}{6685})$ $+ \frac{104}{6685}\sqrt{83}e^4 \otimes e_9 + \frac{26}{6685}\sqrt{1001}e^5 \otimes e_8 + \frac{26}{6685}\sqrt{787}e^3 \otimes e_7$	{1345, 478}
92:17	$0, 0, 0, 0, 0, 0, \frac{10}{327}\sqrt{58}e^{12} + \frac{10}{327}\sqrt{182}e^{34},$ $\frac{10}{327}\sqrt{17}e^{15} + \frac{20}{327}\sqrt{31}e^{26} + \frac{10}{327}\sqrt{79}e^{37}$	$(\frac{70}{327}, -\frac{65}{327}, \frac{70}{327}, -\frac{65}{327}, -\frac{10}{109}, \frac{35}{109}, -\frac{10}{109}, \frac{5}{327}, \frac{40}{327})$ $+ \frac{10}{327}\sqrt{129}e^1 \otimes e_5 - \frac{10}{327}\sqrt{191}e^3 \otimes e_7 + \frac{10}{327}\sqrt{282}e^6 \otimes e_8$	{12346, 1267, 138, 1478}
92:17	$0, 0, 0, 0, 0, 0, \frac{10}{327}\sqrt{58}e^{12} + \frac{10}{327}\sqrt{182}e^{34},$ $\frac{10}{327}\sqrt{17}e^{15} + \frac{20}{327}\sqrt{31}e^{26} + \frac{10}{327}\sqrt{79}e^{37}$	$(\frac{70}{327}, -\frac{65}{327}, \frac{70}{327}, -\frac{65}{327}, -\frac{10}{109}, \frac{35}{109}, -\frac{10}{109}, \frac{5}{327}, \frac{40}{327})$ $+ \frac{10}{327}\sqrt{129}e^1 \otimes e_5 + \frac{10}{327}\sqrt{191}e^3 \otimes e_7 + \frac{10}{327}\sqrt{282}e^6 \otimes e_8$	{12346, 1267, 138, 1478}
92:17	$0, 0, 0, 0, 0, 0, \frac{5}{252}\sqrt{82}e^{12} + \frac{5}{126}\sqrt{30}e^{34},$ $\frac{5}{252}\sqrt{291}e^{15} + \frac{5}{252}\sqrt{291}e^{26} + \frac{5}{42}\sqrt{15}e^{37}$	$(\frac{29}{168}, -\frac{37}{168}, -\frac{17}{84}, \frac{13}{84}, -\frac{1}{8}, \frac{15}{56}, \frac{1}{4}, -\frac{1}{21}, \frac{21}{21})$ $+ \frac{5}{126}\sqrt{201}e^7 \otimes e_8 + \frac{5}{84}\sqrt{66}e^1 \otimes e_5$	{1237, 168, 258, 3567}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{212}\sqrt{19402}e^{12} + \frac{1}{106}\sqrt{2047}e^{34},$ $\frac{1}{212}\sqrt{6141}e^{15} + \frac{1}{212}\sqrt{6141}e^{26} + \frac{1}{212}\sqrt{7654}e^{37}$	$(\frac{77}{424}, \frac{77}{424}, \frac{17}{212}, \frac{15}{53}, -\frac{101}{424}, -\frac{101}{424}, -\frac{29}{212}, \frac{77}{212}, -\frac{3}{53})$ $+ \frac{3}{212}\sqrt{1958}e^1 \otimes e_5 - \frac{3}{212}\sqrt{1958}e^2 \otimes e_6$	{1237, 124, 134678, 168, 3567, 456}
92:17	$0, 0, 0, 0, 0, 0, \frac{1}{212}\sqrt{19402}e^{12} + \frac{1}{106}\sqrt{2047}e^{34},$ $\frac{1}{212}\sqrt{6141}e^{15} + \frac{1}{212}\sqrt{6141}e^{26} + \frac{1}{212}\sqrt{7654}e^{37}$	$(\frac{77}{424}, \frac{77}{424}, \frac{17}{212}, \frac{15}{53}, -\frac{101}{424}, -\frac{101}{424}, -\frac{29}{212}, \frac{77}{212}, -\frac{3}{53})$ $+ \frac{3}{212}\sqrt{1958}e^1 \otimes e_5 + \frac{3}{212}\sqrt{1958}e^2 \otimes e_6$	{1237, 124, 134678, 168, 3567, 456}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{995}\sqrt{179546e^{12}} + \frac{1}{995}\sqrt{592334e^{34}},$ $\frac{3}{995}\sqrt{68798e^{15}} + \frac{4}{995}\sqrt{5034e^{26}} + \frac{3}{995}\sqrt{31882e^{37}}$	$(-\frac{63}{199}, \frac{102}{995}, -\frac{21}{995}, -\frac{192}{995}, \frac{626}{995}, \frac{209}{995}, \frac{332}{995}, -\frac{213}{995}, \frac{311}{995})$ $+ \frac{2}{995}\sqrt{349863e^5} \otimes e_8$	{12345, 1257, 13789, 1489, 238, 2478, 34579, 59}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{59}\sqrt{1633e^{12}} + \frac{2}{59}\sqrt{355e^{34}},$ $\frac{1}{59}\sqrt{1065e^{15}} + \frac{1}{59}\sqrt{1065e^{26}} + \frac{2}{59}\sqrt{994e^{37}}$	$(\frac{11}{118}, \frac{11}{118}, \frac{41}{59}, -\frac{30}{59}, \frac{17}{59}, \frac{17}{59}, -\frac{37}{118}, \frac{11}{59}, \frac{45}{118})$ $+ \frac{3}{59}\sqrt{781e^3} \otimes e_4$	{123569, 1237, 124, 1245679, 3567, 39, 456, 479}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{4}{1333}\sqrt{5694e^{12}} + \frac{4}{1333}\sqrt{15549e^{34}},$ $\frac{1}{1333}\sqrt{215934e^{15}} + \frac{15}{1333}\sqrt{438e^{26}} + \frac{1}{1333}\sqrt{71394e^{37}}$	$(-\frac{159}{1333}, \frac{109}{1333}, -\frac{9}{43}, \frac{229}{1333}, \frac{169}{1333}, -\frac{99}{1333}, \frac{289}{1333}, -\frac{50}{1333}, \frac{10}{1333})$ $+ \frac{1}{1333}\sqrt{293898e^4} \otimes e_9 + \frac{4}{1333}\sqrt{14673e^5} \otimes e_8$	{123789, 1345, 259, 478}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{23}{3221}\sqrt{970e^{12}} + \frac{23}{3221}\sqrt{2714e^{34}},$ $\frac{46}{3221}\sqrt{267e^{15}} + \frac{69}{3221}\sqrt{262e^{26}} + \frac{69}{3221}\sqrt{86e^{37}}$	$(\frac{276}{3221}, -\frac{391}{3221}, -\frac{667}{3221}, \frac{552}{3221}, -\frac{253}{3221}, \frac{414}{3221}, \frac{690}{3221}, -\frac{115}{3221}, \frac{23}{3221})$ $+ \frac{46}{3221}\sqrt{11e^1} \otimes e_5 + \frac{46}{3221}\sqrt{645e^6} \otimes e_8 + \frac{46}{3221}\sqrt{803e^4} \otimes e_9$	{123789, 169}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{2e^{12}} + \frac{1}{12}\sqrt{6e^{34}},$ $\frac{1}{12}\sqrt{3e^{15}} + \frac{1}{12}\sqrt{3e^{26}} + \frac{1}{4}\sqrt{2e^{37}}$	$(\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, 0, 0)$ $+ \frac{1}{12}\sqrt{30e^7} \otimes e_8 + \frac{1}{4}\sqrt{2e^1} \otimes e_5 + \frac{1}{4}\sqrt{2e^4} \otimes e_9$	{12347, 1468, 2458, 34567}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{12}\sqrt{2e^{12}} + \frac{1}{12}\sqrt{6e^{34}},$ $\frac{1}{12}\sqrt{3e^{15}} + \frac{1}{12}\sqrt{3e^{26}} + \frac{1}{4}\sqrt{2e^{37}}$	$(\frac{1}{8}, -\frac{1}{8}, -\frac{1}{4}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{4}, 0, 0)$ $- \frac{1}{12}\sqrt{30e^7} \otimes e_8 + \frac{1}{4}\sqrt{2e^1} \otimes e_5 + \frac{1}{4}\sqrt{2e^4} \otimes e_9$	{12347, 1468, 2458, 34567}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{121}\sqrt{2553e^{12}} + \frac{1}{121}\sqrt{2590e^{34}},$ $\frac{1}{121}\sqrt{3145e^{15}} + \frac{3}{121}\sqrt{185e^{26}} + \frac{1}{121}\sqrt{1406e^{37}}$	$(-\frac{97}{484}, \frac{3}{44}, \frac{29}{121}, -\frac{45}{121}, \frac{58}{121}, \frac{51}{242}, \frac{19}{484}, -\frac{16}{121}, \frac{135}{484})$ $+ \frac{1}{121}\sqrt{6179e^3} \otimes e_4 + \frac{1}{121}\sqrt{2405e^5} \otimes e_8$	{1389, 14789, 2378, 248}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{5}{759}\sqrt{566e^{12}} + \frac{1}{759}\sqrt{177158e^{34}},$ $\frac{1}{759}\sqrt{118294e^{15}} + \frac{2}{759}\sqrt{1981e^{26}} + \frac{1}{759}\sqrt{87730e^{37}}$	$(-\frac{113}{759}, \frac{82}{759}, \frac{211}{759}, -\frac{22}{69}, \frac{84}{253}, \frac{19}{253}, -\frac{24}{253}, -\frac{31}{759}, \frac{139}{759})$ $+ \frac{2}{759}\sqrt{42167e^3} \otimes e_7 + \frac{2}{759}\sqrt{55185e^5} \otimes e_8$	{1345, 157, 38, 478}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{2}{59}\sqrt{994e^{12}} + \frac{2}{59}\sqrt{355e^{34}},$ $\frac{1}{59}\sqrt{1065e^{15}} + \frac{1}{59}\sqrt{1065e^{26}} + \frac{2}{59}\sqrt{1633e^{37}}$	$(\frac{77}{118}, -\frac{11}{59}, \frac{8}{59}, \frac{39}{118}, \frac{65}{118}, \frac{17}{59}, -\frac{2}{59}, \frac{55}{118}, \frac{6}{59})$ $+ \frac{3}{59}\sqrt{781e^1} \otimes e_5$	{1237, 124, 134678, 168, 234578, 258, 3567, 456}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{2}{251}\sqrt{6258e^{12}} + \frac{2}{251}\sqrt{8642e^{34}},$ $\frac{1}{251}\sqrt{25926e^{15}} + \frac{1}{251}\sqrt{25926e^{26}} + \frac{1}{251}\sqrt{3874e^{37}}$	$(\frac{35}{251}, \frac{35}{251}, -\frac{65}{251}, \frac{135}{251}, -\frac{49}{251}, -\frac{49}{251}, \frac{51}{251}, \frac{70}{251}, -\frac{14}{251})$ $+ \frac{1}{251}\sqrt{63474e^4} \otimes e_9$	{123789, 1245678, 1345, 169, 356789, 478}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{16}\sqrt{102e^{12}} + \frac{1}{8}\sqrt{15e^{34}},$ $\frac{3}{16}\sqrt{5e^{15}} + \frac{3}{16}\sqrt{5e^{26}} + \frac{1}{16}\sqrt{102e^{37}}$	$(\frac{11}{32}, -\frac{11}{96}, \frac{19}{48}, -\frac{1}{6}, -\frac{7}{32}, \frac{23}{96}, -\frac{13}{48}, \frac{11}{8}, \frac{1}{8})$ $+ \frac{1}{8}\sqrt{33e^1} \otimes e_5 + \frac{1}{8}\sqrt{33e^3} \otimes e_4$	{1237, 124, 3567, 456}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{1}{313}\sqrt{25755e^{12}} + \frac{1}{626}\sqrt{47874e^{34}},$ $\frac{3}{626}\sqrt{4242e^{15}} + \frac{5}{313}\sqrt{606e^{26}} + \frac{1}{626}\sqrt{10605e^{37}}$	$(\frac{193}{626}, -\frac{413}{1252}, \frac{1}{313}, -\frac{31}{1252}, -\frac{55}{313}, \frac{579}{1252}, \frac{81}{626}, -\frac{27}{1252}, \frac{83}{626})$ $+ \frac{1}{313}\sqrt{49389e^6} \otimes e_8 + \frac{1}{626}\sqrt{143319e^1} \otimes e_5$	{12346, 1267, 138, 1478}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{41}{4549}\sqrt{2478e^{12}} + \frac{41}{4549}\sqrt{70e^{34}},$ $\frac{82}{4549}\sqrt{285e^{15}} + \frac{615}{4549}\sqrt{2e^{26}} + \frac{123}{4549}\sqrt{134e^{37}}$	$(\frac{1148}{4549}, -\frac{1107}{4549}, \frac{861}{4549}, -\frac{820}{4549}, -\frac{533}{4549}, \frac{1722}{4549}, -\frac{246}{4549}, \frac{41}{4549}, \frac{615}{4549})$ $+ \frac{82}{4549}\sqrt{571e^3} \otimes e_4 + \frac{82}{4549}\sqrt{730e^1} \otimes e_5 + \frac{82}{4549}\sqrt{795e^6} \otimes e_8$	{1378, 148}
92:17	$0, 0, 0, 0, 0, 0, 0, \frac{5}{252}\sqrt{15e^{12}} + \frac{5}{252}\sqrt{30e^{34}},$ $\frac{5}{252}\sqrt{291e^{15}} + \frac{5}{252}\sqrt{291e^{26}} + \frac{5}{84}\sqrt{82e^{37}}$	$(-\frac{5}{56}, -\frac{5}{56}, \frac{5}{84}, -\frac{5}{21}, \frac{15}{56}, \frac{15}{56}, \frac{5}{42}, -\frac{5}{28}, \frac{5}{28})$ $+ \frac{5}{126}\sqrt{201e^7} \otimes e_8 + \frac{5}{84}\sqrt{66e^3} \otimes e_4$	{1237, 1245679, 3567, 479}
92:18	$0, 0, 0, 0, 0, 0, 0, -\frac{11}{108}\sqrt{46e^{13}} + \frac{11}{108}\sqrt{46e^{24}} + \frac{11}{54}\sqrt{15e^{56}},$ $\frac{11}{36}\sqrt{5e^{12}} + \frac{11}{36}\sqrt{5e^{34}} + \frac{11}{108}\sqrt{122e^{57}}$	$(\frac{11}{72}, \frac{11}{72}, \frac{11}{72}, \frac{11}{72}, \frac{77}{108}, -\frac{11}{27}, -\frac{11}{27}, \frac{11}{36}, \frac{11}{36})$ $+ \frac{11}{108}\sqrt{182e^5} \otimes e_6$	{123459, 1234679, 1357, 136, 59, 679, 123459, 1234679, 1357, 136, 59, 679}
92:18	$0, 0, 0, 0, 0, 0, 0, \frac{11}{108}\sqrt{46e^{13}} + \frac{11}{108}\sqrt{46e^{24}} + \frac{11}{54}\sqrt{15e^{56}},$ $\frac{11}{36}\sqrt{5e^{12}} + \frac{11}{36}\sqrt{5e^{34}} + \frac{11}{108}\sqrt{122e^{57}}$	$(\frac{11}{72}, \frac{11}{72}, \frac{11}{72}, \frac{11}{72}, \frac{77}{108}, -\frac{11}{27}, -\frac{11}{27}, \frac{11}{36}, \frac{11}{36})$ $+ \frac{11}{108}\sqrt{182e^5} \otimes e_6$	{123459, 1234679, 1357, 136, 59, 679, 123459, 1234679, 1357, 136, 59, 679}
92:18	$0, 0, 0, 0, 0, 0, 0, -\frac{1}{9}\sqrt{21e^{13}} + \frac{1}{9}\sqrt{21e^{24}} + \frac{2}{3}e^{56},$ $\frac{1}{3}\sqrt{3e^{12}} + \frac{1}{3}\sqrt{3e^{34}} + \frac{2}{9}\sqrt{3e^{57}}$	$(0, 0, 0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0)$ $+ \frac{4}{9}\sqrt{3e^6} \otimes e_9$	{1234678, 1256, 135789, 149, 678, 1234678, 1256, 135789, 149, 678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
92:18	$0, 0, 0, 0, 0, 0, \frac{1}{9}\sqrt{21}e^{13} + \frac{1}{9}\sqrt{21}e^{24} + \frac{2}{3}e^{56},$ $\frac{1}{3}\sqrt{3}e^{12} + \frac{1}{3}\sqrt{3}e^{34} + \frac{2}{9}\sqrt{3}e^{57}$	$(0, 0, 0, 0, -\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, 0, 0)$ $+ \frac{4}{9}\sqrt{3}e^6 \otimes e_9$	{1234678, 1256, 135789, 149, 678, 1234678, 1256, 135789, 149, 678}
92:19	$0, 0, 0, 0, 0, 0, \frac{4}{997}\sqrt{9435}e^{13} + \frac{148}{997}\sqrt{15}e^{25} + \frac{120}{997}\sqrt{37}e^{46},$ $\frac{1}{997}\sqrt{418470}e^{12} + \frac{1}{997}\sqrt{12210}e^{34} + \frac{3}{997}\sqrt{38110}e^{57}$	$(-\frac{99}{997}, \frac{61}{997}, \frac{289}{997}, -\frac{327}{997}, \frac{129}{997}, \frac{517}{997}, -\frac{167}{997}, \frac{190}{997}, -\frac{38}{997})$ $+ \frac{15}{997}\sqrt{4218}e^6 \otimes e_9$	{1235678, 1246, 134789, 159}
92:19	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{15}e^{13} + \frac{1}{21}\sqrt{21}e^{25} + \frac{1}{21}\sqrt{51}e^{46},$ $\frac{1}{21}\sqrt{15}e^{12} + \frac{1}{21}\sqrt{21}e^{34} + \frac{1}{21}\sqrt{51}e^{57}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{1}{21}\sqrt{57}e^6 \otimes e_9 + \frac{1}{21}\sqrt{57}e^7 \otimes e_8$	{234589, 279, 4567}
92:19	$0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{15}e^{13} + \frac{1}{21}\sqrt{21}e^{25} + \frac{1}{21}\sqrt{51}e^{46},$ $\frac{1}{21}\sqrt{15}e^{12} + \frac{1}{21}\sqrt{21}e^{34} + \frac{1}{21}\sqrt{51}e^{57}$	$(-\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, -\frac{1}{7}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 0, 0)$ $+ \frac{1}{21}\sqrt{57}e^6 \otimes e_9 - \frac{1}{21}\sqrt{57}e^7 \otimes e_8$	{234589, 279, 4567}
92:19	$0, 0, 0, 0, 0, 0, \frac{1}{47}\sqrt{555}e^{13} + \frac{1}{94}\sqrt{4773}e^{25} + \frac{3}{94}\sqrt{370}e^{46},$ $\frac{1}{47}\sqrt{555}e^{12} + \frac{6}{47}\sqrt{74}e^{34} + \frac{3}{94}\sqrt{370}e^{57}$	$(\frac{69}{188}, \frac{3}{94}, -\frac{1}{4}, \frac{61}{94}, \frac{4}{47}, -\frac{25}{47}, \frac{59}{188}, \frac{11}{94}, \frac{75}{188})$ $+ \frac{3}{94}\sqrt{1961}e^4 \otimes e_6$	{124579, 167, 2345, 369}
92:19	$0, 0, 0, 0, 0, 0, \frac{2}{73}\sqrt{370}e^{13} + \frac{1}{73}\sqrt{222}e^{25} + \frac{1}{73}\sqrt{1110}e^{46},$ $\frac{2}{73}\sqrt{185}e^{12} + \frac{3}{73}\sqrt{74}e^{34} + \frac{5}{73}\sqrt{74}e^{57}$	$(-\frac{1}{73}, \frac{16}{73}, -\frac{2}{73}, \frac{17}{73}, -\frac{19}{73}, -\frac{20}{73}, \frac{34}{73}, -\frac{3}{73}, \frac{15}{73})$ $+ \frac{10}{73}\sqrt{37}e^7 \otimes e_8 + \frac{2}{73}\sqrt{259}e^4 \otimes e_6$	{2368, 34589}
92:19	$0, 0, 0, 0, 0, 0, \frac{22}{229}\sqrt{15}e^{13} + \frac{11}{229}\sqrt{182}e^{25} + \frac{33}{229}\sqrt{10}e^{46},$ $\frac{22}{229}\sqrt{15}e^{12} + \frac{11}{229}\sqrt{182}e^{34} + \frac{33}{229}\sqrt{10}e^{57}$	$(\frac{77}{229}, -\frac{44}{229}, -\frac{44}{229}, \frac{77}{229}, \frac{77}{229}, -\frac{44}{229}, -\frac{44}{229}, \frac{33}{229}, \frac{33}{229})$ $+ \frac{22}{229}\sqrt{53}e^4 \otimes e_6 + \frac{22}{229}\sqrt{53}e^5 \otimes e_7$	{167, 2345}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{85}e^{12}$	$(\frac{13}{60}, -\frac{7}{30}, \frac{11}{20}, -\frac{7}{20}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, -\frac{1}{60})$ $+ \frac{1}{10}\sqrt{51}e^1 \otimes e_4 + \frac{1}{10}\sqrt{51}e^3 \otimes e_9$	{123, 1235, 12356, 123567, 1235678, 156789, 15679, 1569, 159, 19, 2456789, 245679, 24569, 2459, 249, 34, 345, 3456, 34567, 345678}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{109}\sqrt{946}e^{12}$	$(\frac{33}{109}, -\frac{53}{109}, \frac{66}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{20}{109})$ $+ \frac{6}{109}\sqrt{258}e^3 \otimes e_9 + \frac{86}{109}e^1 \otimes e_2$	{1456789, 145679, 14569, 1459, 149, 19, 2456789, 245679, 24569, 2459, 249, 29}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{4}{77}\sqrt{85}e^{12}$	$(\frac{13}{77}, \frac{13}{77}, -\frac{3}{11}, -\frac{3}{11}, \frac{23}{77}, -\frac{1}{7}, \frac{6}{77}, \frac{6}{77}, \frac{26}{77})$ $+ \frac{34}{77}e^5 \otimes e_6 + \frac{6}{77}\sqrt{51}e^1 \otimes e_3 + \frac{6}{77}\sqrt{51}e^2 \otimes e_4$	{125, 1257, 12578, 126, 1267, 12678, 145789, 14579, 1459, 146789, 14679, 1469, 345, 3457, 34578, 346, 3467, 34678}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{2}{109}\sqrt{946}e^{12}$	$(-\frac{10}{109}, -\frac{10}{109}, \frac{55}{109}, \frac{66}{109}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, -\frac{20}{109})$ $+ \frac{6}{109}\sqrt{258}e^4 \otimes e_9 + \frac{86}{109}e^3 \otimes e_5$	{1234, 12346, 123467, 1234678, 1245, 12456, 124567, 1245678, 136789, 13679, 1369, 139, 156789, 15679, 1569, 159, 34, 346, 3467, 34678, 45, 456, 4567, 45678}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{946}e^{12}$	$(\frac{2}{3}, -\frac{5}{33}, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{17}{33})$ $+ \frac{1}{11}\sqrt{258}e^1 \otimes e_3$	{12, 124, 1245, 12456, 124567, 1245678, 1456789, 145679, 14569, 1459, 149, 19, 23456789, 2345679, 234569, 23459, 2349, 239, 3, 34, 345, 3456, 34567, 345678}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{15}\sqrt{85}e^{12}$	$(\frac{13}{60}, \frac{13}{60}, -\frac{7}{20}, -\frac{7}{20}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{13}{30})$ $+ \frac{1}{10}\sqrt{51}e^1 \otimes e_3 + \frac{1}{10}\sqrt{51}e^2 \otimes e_4$	{12, 125, 1256, 12567, 125678, 1456789, 145679, 14569, 1459, 149, 34, 345, 3456, 34567, 345678}
91:1	$0, 0, 0, 0, 0, 0, 0, \frac{1}{76}\sqrt{946}e^{12}$	$(-\frac{5}{76}, -\frac{5}{76}, \frac{55}{152}, \frac{55}{152}, \frac{33}{76}, -\frac{31}{152}, -\frac{31}{152}, \frac{3}{38}, -\frac{5}{38})$ $+ \frac{3}{76}\sqrt{258}e^5 \otimes e_9 + \frac{43}{76}e^3 \otimes e_6 + \frac{43}{76}e^4 \otimes e_7$	{12345, 123458, 12357, 123578, 12567, 125678, 13489, 1349, 13789, 1379, 16789, 1679, 345, 3458, 357, 3578, 567, 5678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{109} \sqrt{946}e^{12}$	$(\frac{44}{109}, -\frac{10}{109}, \frac{55}{109}, -\frac{42}{109}, -\frac{31}{109}, \frac{12}{109}, \frac{12}{109}, \frac{12}{109}, \frac{34}{109})$ $+\frac{6}{109} \sqrt{258}e^1 \otimes e_4 + \frac{86}{109} e^3 \otimes e_5$	{123, 1236, 12367, 123678, 125, 1256, 12567, 125678, 136789, 13679, 1369, 139, 156789, 15679, 1569, 159, 2346789, 234679, 23469, 2349, 2456789, 245679, 24569, 2459, 34, 346, 3467, 34678, 45, 456, 4567, 45678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{5}{87} \sqrt{58}e^{12}$	$(\frac{4}{87}, \frac{4}{87}, -\frac{7}{29}, -\frac{7}{29}, \frac{11}{29}, \frac{2}{29}, \frac{2}{29}, \frac{2}{29}, \frac{8}{87})$ $+\frac{5}{29} \sqrt{6}e^1 \otimes e_3 + \frac{5}{29} \sqrt{6}e^2 \otimes e_4 + \frac{5}{29} \sqrt{6}e^5 \otimes e_9$	{125, 1256, 12567, 125678, 146789, 14679, 1469, 149, 345, 3456, 34567, 345678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{21} \sqrt{13}e^{12}$	$(\frac{5}{14}, -\frac{11}{42}, \frac{8}{21}, -\frac{5}{21}, \frac{8}{21}, -\frac{5}{21}, \frac{1}{14}, \frac{1}{14}, \frac{2}{21})$ $+\frac{13}{21} e^1 \otimes e_2 + \frac{13}{21} e^3 \otimes e_4 + \frac{13}{21} e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 146789, 14679, 1469, 235789, 23579, 2359, 236789, 23679, 2369, 246789, 24679, 2469}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{29} \sqrt{13}e^{12}$	$(\frac{15}{29}, -\frac{11}{29}, \frac{16}{29}, -\frac{10}{29}, \frac{3}{29}, \frac{3}{29}, \frac{3}{29}, \frac{3}{29}, \frac{4}{29})$ $+\frac{26}{29} e^1 \otimes e_2 + \frac{26}{29} e^3 \otimes e_4$	{1356789, 135679, 13569, 1359, 139, 1456789, 145679, 14569, 1459, 149, 2356789, 235679, 23569, 2359, 239, 2456789, 245679, 24569, 2459, 249}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{76} \sqrt{946}e^{12}$	$(\frac{11}{38}, -\frac{5}{76}, \frac{55}{152}, -\frac{21}{76}, \frac{55}{152}, -\frac{31}{152}, -\frac{31}{152}, \frac{3}{38}, \frac{17}{76})$ $+\frac{3}{76} \sqrt{258}e^1 \otimes e_4 + \frac{43}{76} e^3 \otimes e_6 + \frac{43}{76} e^5 \otimes e_7$	{1235, 12358, 1237, 12378, 1267, 12678, 13589, 1359, 13789, 1379, 16789, 1679, 234589, 23459, 234789, 23479, 246789, 24679, 345, 3458, 347, 3478, 467, 4678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{8} \sqrt{13}e^{12}$	$(\frac{15}{16}, -\frac{11}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{1}{4})$ $+\frac{13}{8} e^1 \otimes e_2$	{13456789, 1345679, 134569, 13459, 1349, 139, 19, 23456789, 2345679, 234569, 23459, 2349, 239, 29}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{4}{77} \sqrt{85}e^{12}$	$(\frac{13}{77}, -\frac{2}{11}, \frac{23}{77}, -\frac{3}{11}, \frac{3}{7}, -\frac{1}{7}, \frac{6}{77}, \frac{6}{77}, -\frac{1}{77})$ $+\frac{34}{77} e^3 \otimes e_6 + \frac{6}{77} \sqrt{51}e^1 \otimes e_4 + \frac{6}{77} \sqrt{51}e^5 \otimes e_9$	{1235, 12357, 123578, 1256, 12567, 125678, 13789, 1379, 139, 16789, 1679, 169, 234789, 23479, 2349, 246789, 24679, 2469, 345, 3457, 34578, 456, 4567, 45678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{8} \sqrt{13}e^{12}$	$(\frac{1}{8}, \frac{1}{8}, 1, -\frac{5}{8}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{3}{16}, \frac{1}{4})$ $+\frac{13}{8} e^3 \otimes e_4$	{123, 1235, 12356, 123567, 1235678, 124, 1245, 12456, 124567, 1245678, 1356789, 135679, 13569, 1359, 139, 1456789, 145679, 14569, 1459, 149, 3, 35, 356, 3567, 35678, 4, 45, 456, 4567, 45678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{76} \sqrt{946}e^{12}$	$(\frac{33}{152}, -\frac{53}{152}, \frac{55}{152}, -\frac{31}{152}, \frac{33}{76}, \frac{3}{38}, \frac{3}{38}, \frac{3}{38}, -\frac{5}{38})$ $+\frac{3}{76} \sqrt{258}e^5 \otimes e_9 + \frac{43}{76} e^1 \otimes e_2 + \frac{43}{76} e^3 \otimes e_4$	{136789, 13679, 1369, 139, 146789, 14679, 1469, 149, 236789, 23679, 2369, 239, 246789, 24679, 2469, 249}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{47} \sqrt{85}e^{12}$	$(\frac{13}{94}, \frac{13}{94}, -\frac{21}{94}, -\frac{21}{94}, \frac{23}{94}, -\frac{11}{94}, \frac{23}{94}, -\frac{11}{94}, \frac{13}{47})$ $+\frac{17}{47} e^5 \otimes e_6 + \frac{17}{47} e^7 \otimes e_8 + \frac{3}{47} \sqrt{51}e^1 \otimes e_3 + \frac{3}{47} \sqrt{51}e^2 \otimes e_4$	{1257, 1258, 1268, 14579, 14589, 14689, 3457, 3458, 3468}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{10}{199} \sqrt{58}e^{12}$	$(\frac{8}{199}, \frac{8}{199}, -\frac{42}{199}, -\frac{42}{199}, \frac{37}{199}, -\frac{13}{199}, \frac{66}{199}, \frac{12}{199}, \frac{16}{199})$ $+\frac{30}{199} \sqrt{6}e^1 \otimes e_3 + \frac{30}{199} \sqrt{6}e^2 \otimes e_4 + \frac{30}{199} \sqrt{6}e^7 \otimes e_9 + \frac{50}{199} e^5 \otimes e_6$	{1257, 12578, 1267, 12678, 14589, 1459, 14689, 1469, 3457, 34578, 3467, 34678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{55} \sqrt{13}e^{12}$	$(\frac{3}{11}, -\frac{1}{5}, \frac{16}{55}, -\frac{2}{11}, \frac{16}{55}, -\frac{2}{11}, \frac{16}{55}, -\frac{2}{11}, \frac{4}{55})$ $+\frac{26}{55} e^1 \otimes e_2 + \frac{26}{55} e^3 \otimes e_4 + \frac{26}{55} e^5 \otimes e_6 + \frac{26}{55} e^7 \otimes e_8$	{13579, 13589, 13689, 14689, 23579, 23589, 23689, 24689}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{29} \sqrt{13}e^{12}$	$(\frac{2}{29}, \frac{2}{29}, \frac{16}{29}, \frac{16}{29}, -\frac{10}{29}, -\frac{10}{29}, \frac{3}{29}, \frac{3}{29}, \frac{4}{29})$ $+\frac{26}{29} e^3 \otimes e_5 + \frac{26}{29} e^4 \otimes e_6$	{1234, 12347, 123478, 1236, 12367, 123678, 1256, 12567, 125678, 134789, 13479, 1349, 136789, 13679, 1369, 156789, 15679, 1569, 34, 347, 3478, 36, 367, 3678, 56, 567, 5678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{195}\sqrt{946}e^{12}$	$(\frac{11}{65}, -\frac{53}{195}, \frac{11}{39}, -\frac{31}{195}, \frac{11}{39}, -\frac{31}{195}, \frac{22}{65}, \frac{4}{65}, -\frac{4}{39})$ $+ \frac{2}{65}\sqrt{258}e^7 \otimes e_9 + \frac{86}{195}e^1 \otimes e_2 + \frac{86}{195}e^3 \otimes e_4 + \frac{86}{195}e^5 \otimes e_6$	{13589, 1359, 13689, 1369, 14689, 1469, 23589, 2359, 23689, 2369, 24689, 2469}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{21}\sqrt{13}e^{12}$	$(\frac{1}{21}, \frac{1}{21}, \frac{8}{21}, \frac{8}{21}, \frac{8}{21}, -\frac{5}{21}, -\frac{5}{21}, -\frac{5}{21}, \frac{2}{21})$ $+ \frac{13}{21}e^3 \otimes e_6 + \frac{13}{21}e^4 \otimes e_7 + \frac{13}{21}e^5 \otimes e_8$	{12345, 12348, 12378, 12678, 13459, 13489, 13789, 16789, 345, 348, 378, 678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{33}\sqrt{946}e^{12}$	$(-\frac{5}{33}, -\frac{5}{33}, 1, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{10}{33})$ $+ \frac{1}{11}\sqrt{258}e^3 \otimes e_9$	{123, 1234, 12345, 123456, 1234567, 12345678, 1456789, 145679, 14569, 1459, 149, 19, 3, 34, 345, 3456, 34567, 345678}
91:1	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{85}e^{12}$	$(\frac{13}{94}, -\frac{7}{47}, \frac{23}{94}, -\frac{21}{94}, \frac{23}{94}, -\frac{11}{94}, \frac{33}{94}, -\frac{11}{94}, -\frac{1}{94})$ $+ \frac{17}{47}e^3 \otimes e_6 + \frac{17}{47}e^5 \otimes e_8 + \frac{3}{47}\sqrt{51}e^1 \otimes e_4 + \frac{3}{47}\sqrt{51}e^7 \otimes e_9$	{12357, 12378, 12678, 1359, 1389, 1689, 23459, 23489, 24689, 3457, 3478, 4678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{17}e^{12} + \frac{1}{19}\sqrt{17}e^{34}$	$(\frac{3}{38}, \frac{3}{38}, \frac{3}{38}, \frac{3}{38}, \frac{21}{38}, \frac{21}{38}, -\frac{13}{38}, -\frac{13}{38}, \frac{3}{19})$ $+ \frac{17}{19}e^5 \otimes e_7 + \frac{17}{19}e^6 \otimes e_8$	{123456, 123458, 123478, 1256, 1258, 1278, 13569, 13589, 13789, 56, 58, 78}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{17}e^{12} + \frac{1}{19}\sqrt{17}e^{34}$	$(\frac{10}{19}, -\frac{7}{19}, \frac{3}{38}, \frac{3}{38}, \frac{3}{38}, -\frac{13}{38}, \frac{2}{19}, \frac{2}{19}, \frac{3}{19})$ $+ \frac{17}{19}e^1 \otimes e_2 + \frac{17}{19}e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 235789, 23579, 2359, 236789, 23679, 2369}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{11}e^{12} + \frac{5}{47}\sqrt{11}e^{34}$	$(\frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{22}{47}, \frac{4}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47})$ $+ \frac{25}{47}e^1 \otimes e_2 - \frac{25}{47}e^3 \otimes e_4 + \frac{30}{47}e^5 \otimes e_9$	{136789, 13679, 1369, 139, 146789, 14679, 1469, 149, 246789, 24679, 2469, 249}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{11}e^{12} + \frac{5}{47}\sqrt{11}e^{34}$	$(\frac{11}{47}, -\frac{14}{47}, \frac{11}{47}, -\frac{14}{47}, \frac{22}{47}, \frac{4}{47}, \frac{4}{47}, \frac{4}{47}, -\frac{3}{47})$ $+ \frac{25}{47}e^1 \otimes e_2 + \frac{25}{47}e^3 \otimes e_4 + \frac{30}{47}e^5 \otimes e_9$	{136789, 13679, 1369, 139, 146789, 14679, 1469, 149, 246789, 24679, 2469, 249}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{10}{119}\sqrt{11}e^{12} + \frac{10}{119}\sqrt{11}e^{34}$	$(\frac{22}{119}, -\frac{4}{17}, \frac{22}{119}, -\frac{4}{17}, \frac{33}{119}, -\frac{1}{7}, \frac{44}{119}, \frac{8}{119}, -\frac{6}{119})$ $+ \frac{50}{119}e^1 \otimes e_2 + \frac{50}{119}e^3 \otimes e_4 + \frac{50}{119}e^5 \otimes e_6 + \frac{60}{119}e^7 \otimes e_9$	{13589, 1359, 13689, 1369, 14589, 1459, 14689, 1469, 24589, 2459, 24689, 2469}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{10}{119}\sqrt{11}e^{12} + \frac{10}{119}\sqrt{11}e^{34}$	$(\frac{22}{119}, -\frac{4}{17}, \frac{22}{119}, -\frac{4}{17}, \frac{33}{119}, -\frac{1}{7}, \frac{44}{119}, \frac{8}{119}, -\frac{6}{119})$ $+ \frac{50}{119}e^1 \otimes e_2 - \frac{50}{119}e^3 \otimes e_4 + \frac{50}{119}e^5 \otimes e_6 + \frac{60}{119}e^7 \otimes e_9$	{13589, 1359, 13689, 1369, 14589, 1459, 14689, 1469, 24589, 2459, 24689, 2469}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{10}{69}\sqrt{11}e^{12} + \frac{10}{69}\sqrt{11}e^{34}$	$(-\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, -\frac{1}{23}, \frac{11}{23}, \frac{44}{69}, -\frac{17}{69}, \frac{8}{69}, -\frac{2}{23})$ $+ \frac{20}{23}e^6 \otimes e_9 + \frac{50}{69}e^5 \otimes e_7$	{123456, 1234568, 123467, 1234678, 1256, 12568, 1267, 12678, 13589, 1359, 13789, 1379, 56, 568, 67, 678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{199}\sqrt{7410}e^{12} + \frac{2}{199}\sqrt{114}e^{34}$	$(\frac{10}{199}, \frac{10}{199}, \frac{10}{199}, \frac{10}{199}, \frac{77}{199}, -\frac{47}{199}, -\frac{47}{199}, \frac{14}{199}, \frac{20}{199})$ $+ \frac{1}{199}\sqrt{6954}e^1 \otimes e_6 + \frac{1}{199}\sqrt{6954}e^2 \otimes e_7 + \frac{3}{199}\sqrt{798}e^5 \otimes e_9$	{12345, 123458, 125, 1258, 13789, 1379, 34567, 345678, 567, 5678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{10}{69}\sqrt{11}e^{12} + \frac{10}{69}\sqrt{11}e^{34}$	$(\frac{22}{69}, -\frac{28}{69}, -\frac{1}{23}, -\frac{1}{23}, \frac{44}{69}, \frac{8}{69}, \frac{8}{69}, \frac{8}{69}, -\frac{2}{23})$ $+ \frac{20}{23}e^5 \otimes e_9 + \frac{50}{69}e^1 \otimes e_2$	{136789, 13679, 1369, 139, 236789, 23679, 2369, 239}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{4}{11}\sqrt{3}e^{12} + \frac{2}{11}\sqrt{3}e^{34}$	$(\frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{4}{11}, -\frac{4}{11}, \frac{1}{11}, \frac{1}{11}, \frac{4}{11})$ $+ \frac{2}{11}\sqrt{15}e^1 \otimes e_5 + \frac{2}{11}\sqrt{15}e^2 \otimes e_6$	{123, 1237, 12378, 1346789, 134679, 13469, 16789, 1679, 169, 356, 3567, 35678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{4}{731}\sqrt{2041}e^{12} + \frac{2}{731}\sqrt{27318}e^{34}$	$(\frac{165}{731}, -\frac{149}{731}, \frac{130}{731}, -\frac{114}{731}, \frac{330}{731}, -\frac{184}{731}, \frac{60}{731}, \frac{60}{731}, \frac{16}{731})$ $+ \frac{314}{731}e^1 \otimes e_2 + \frac{4}{731}\sqrt{9577}e^3 \otimes e_6 + \frac{6}{731}\sqrt{4710}e^5 \otimes e_9$	{13789, 1379, 139, 146789, 14679, 1469, 23789, 2379, 239, 246789, 24679, 2469}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{17}e^{12} + \frac{2}{21}\sqrt{17}e^{34}$	$(\frac{20}{21}, -\frac{2}{3}, \frac{1}{7}, \frac{1}{7}, \frac{4}{21}, \frac{4}{21}, \frac{4}{21}, \frac{4}{21}, \frac{2}{7})$ $+ \frac{34}{21}e^1 \otimes e_2$	{1356789, 135679, 13569, 1359, 139, 2356789, 235679, 23569, 2359, 239}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{217}\sqrt{1298}e^{12} + \frac{2}{217}\sqrt{1298}e^{34}$	$(\frac{66}{217}, -\frac{4}{217}, \frac{66}{217}, -\frac{4}{217}, \frac{11}{31}, -\frac{52}{217}, -\frac{52}{217}, -\frac{41}{217}, \frac{2}{7})$ $+ \frac{118}{217}e^5 \otimes e_8 + \frac{2}{217}\sqrt{4130}e^1 \otimes e_6 + \frac{2}{217}\sqrt{4130}e^3 \otimes e_7$	{12345, 12348, 1257, 1278, 1359, 1389, 14579, 14789, 245679, 246789, 567, 678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{11}e^{12} + \frac{1}{14}\sqrt{66}e^{34}$	$(\frac{15}{28}, -\frac{1}{4}, \frac{11}{28}, -\frac{3}{28}, -\frac{11}{28}, \frac{3}{28}, \frac{3}{28}, \frac{3}{28}, \frac{2}{7})$ $+\frac{11}{14}e^1 \otimes e_2 + \frac{1}{14}\sqrt{154}e^3 \otimes e_5$	{134, 1346, 13467, 134678, 15, 156, 1567, 15678, 234, 2346, 23467, 234678, 25, 256, 2567, 25678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{5}{47}\sqrt{11}e^{12} + \frac{5}{47}\sqrt{11}e^{34}$	$(\frac{11}{47}, -\frac{14}{47}, -\frac{3}{94}, -\frac{3}{94}, \frac{33}{94}, \frac{22}{47}, -\frac{17}{94}, \frac{4}{47}, -\frac{3}{47})$ $+\frac{25}{47}e^1 \otimes e_2 + \frac{25}{47}e^5 \otimes e_7 + \frac{30}{47}e^6 \otimes e_9$	{13589, 1359, 13789, 1379, 23589, 2359, 23789, 2379}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{36}\sqrt{17}e^{12} + \frac{1}{36}\sqrt{17}e^{34}$	$(\frac{5}{18}, -\frac{7}{36}, \frac{5}{18}, -\frac{7}{36}, \frac{7}{24}, -\frac{13}{72}, \frac{7}{24}, -\frac{13}{72}, \frac{1}{12})$ $+\frac{17}{36}e^1 \otimes e_2 + \frac{17}{36}e^3 \otimes e_4 + \frac{17}{36}e^5 \otimes e_6 + \frac{17}{36}e^7 \otimes e_8$	{13579, 13589, 13689, 14579, 14589, 14689, 24579, 24589, 24689}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{36}\sqrt{17}e^{12} + \frac{1}{36}\sqrt{17}e^{34}$	$(\frac{5}{18}, -\frac{7}{36}, \frac{5}{18}, -\frac{7}{36}, \frac{7}{24}, -\frac{13}{72}, \frac{7}{24}, -\frac{13}{72}, \frac{1}{12})$ $+\frac{17}{36}e^1 \otimes e_2 - \frac{17}{36}e^3 \otimes e_4 + \frac{17}{36}e^5 \otimes e_6 + \frac{17}{36}e^7 \otimes e_8$	{13579, 13589, 13689, 14579, 14589, 14689, 24579, 24589, 24689}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{17}\sqrt{66}e^{12} + \frac{2}{17}\sqrt{11}e^{34}$	$(\frac{11}{17}, -\frac{3}{17}, \frac{4}{17}, \frac{4}{17}, -\frac{11}{17}, \frac{3}{17}, \frac{3}{17}, \frac{3}{17}, \frac{8}{17})$ $+\frac{2}{17}\sqrt{154}e^1 \otimes e_5$	{123, 1236, 12367, 123678, 1346789, 134679, 13469, 1349, 16789, 1679, 169, 19, 23456789, 2345679, 234569, 23459, 256789, 25679, 2569, 259, 35, 356, 3567, 35678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{731}\sqrt{27318}e^{12} + \frac{4}{731}\sqrt{2041}e^{34}$	$(\frac{130}{731}, -\frac{114}{731}, \frac{8}{731}, \frac{8}{731}, \frac{217}{731}, \frac{330}{731}, -\frac{184}{731}, -\frac{97}{731}, \frac{16}{731})$ $+\frac{314}{731}e^5 \otimes e_8 + \frac{4}{731}\sqrt{9577}e^1 \otimes e_7 + \frac{6}{731}\sqrt{4710}e^6 \otimes e_9$	{123456, 123468, 1256, 1268, 1359, 1389, 23579, 23789, 34567, 34678, 567, 678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{79}\sqrt{1298}e^{12} + \frac{1}{79}\sqrt{1298}e^{34}$	$(\frac{33}{79}, -\frac{2}{79}, \frac{33}{79}, -\frac{2}{79}, -\frac{26}{79}, -\frac{26}{79}, \frac{9}{79}, \frac{9}{79}, \frac{31}{79})$ $+\frac{1}{79}\sqrt{4130}e^1 \otimes e_5 + \frac{1}{79}\sqrt{4130}e^3 \otimes e_6$	{1234, 12347, 123478, 126, 1267, 12678, 13789, 1379, 139, 146789, 14679, 1469, 2456789, 245679, 24569, 56, 567, 5678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{222}\sqrt{2041}e^{12} + \frac{1}{444}\sqrt{27318}e^{34}$	$(\frac{55}{296}, -\frac{149}{888}, \frac{65}{444}, -\frac{19}{148}, \frac{217}{888}, -\frac{23}{111}, \frac{55}{148}, -\frac{97}{888}, \frac{2}{111})$ $+\frac{157}{444}e^1 \otimes e_2 + \frac{157}{444}e^5 \otimes e_8 + \frac{1}{148}\sqrt{4710}e^7 \otimes e_9 + \frac{1}{222}\sqrt{9577}e^3 \otimes e_6$	{1359, 1389, 14569, 14689, 2359, 2389, 24569, 24689}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{21}\sqrt{17}e^{12} + \frac{2}{21}\sqrt{17}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, 1, -\frac{13}{21}, \frac{4}{21}, \frac{4}{21}, \frac{2}{7})$ $+\frac{34}{21}e^5 \otimes e_6$	{12345, 123457, 1234578, 12346, 123467, 1234678, 125, 1257, 12578, 126, 1267, 12678, 135789, 13579, 1359, 136789, 13679, 1369, 5, 57, 578, 6, 67, 678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{17}e^{12} + \frac{2}{55}\sqrt{17}e^{34}$	$(\frac{4}{11}, -\frac{14}{55}, \frac{3}{55}, \frac{3}{55}, \frac{21}{55}, \frac{21}{55}, -\frac{13}{55}, -\frac{13}{55}, \frac{6}{55})$ $+\frac{34}{55}e^1 \otimes e_2 + \frac{34}{55}e^5 \otimes e_7 + \frac{34}{55}e^6 \otimes e_8$	{13569, 13589, 13789, 23569, 23589, 23789}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{14}\sqrt{66}e^{12} + \frac{1}{14}\sqrt{11}e^{34}$	$(\frac{11}{28}, -\frac{3}{28}, \frac{1}{7}, \frac{1}{7}, \frac{1}{2}, -\frac{11}{28}, -\frac{2}{7}, \frac{3}{28}, \frac{2}{7})$ $+\frac{11}{14}e^5 \otimes e_7 + \frac{1}{14}\sqrt{154}e^1 \otimes e_6$	{1235, 12358, 1237, 12378, 134589, 13459, 134789, 13479, 1589, 159, 1789, 179, 2345689, 234569, 2346789, 234679, 25689, 2569, 26789, 2679, 356, 3568, 367, 3678}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{17}e^{12} + \frac{2}{55}\sqrt{17}e^{34}$	$(\frac{4}{11}, -\frac{14}{55}, \frac{4}{11}, -\frac{14}{55}, \frac{21}{55}, -\frac{13}{55}, \frac{4}{55}, \frac{4}{55}, \frac{6}{55})$ $+\frac{34}{55}e^1 \otimes e_2 + \frac{34}{55}e^3 \otimes e_4 + \frac{34}{55}e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 145789, 14579, 1459, 146789, 14679, 1469, 245789, 24579, 2459, 246789, 24679, 2469}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{2}{55}\sqrt{17}e^{12} + \frac{2}{55}\sqrt{17}e^{34}$	$(\frac{4}{11}, -\frac{14}{55}, \frac{4}{11}, -\frac{14}{55}, \frac{21}{55}, -\frac{13}{55}, \frac{4}{55}, \frac{4}{55}, \frac{6}{55})$ $+\frac{34}{55}e^1 \otimes e_2 - \frac{34}{55}e^3 \otimes e_4 + \frac{34}{55}e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 145789, 14579, 1459, 146789, 14679, 1469, 245789, 24579, 2459, 246789, 24679, 2469}
91:2	$0, 0, 0, 0, 0, 0, 0, 0, \frac{1}{287}\sqrt{27318}e^{12} + \frac{2}{287}\sqrt{2041}e^{34}$	$(\frac{65}{287}, -\frac{57}{287}, \frac{4}{287}, \frac{4}{287}, \frac{165}{287}, -\frac{92}{287}, \frac{30}{287}, \frac{30}{287}, \frac{8}{287})$ $+\frac{2}{287}\sqrt{9577}e^1 \otimes e_6 + \frac{3}{287}\sqrt{4710}e^5 \otimes e_9$	{12345, 123457, 1234578, 125, 1257, 12578, 13789, 1379, 139, 236789, 23679, 2369, 3456, 34567, 345678, 56, 567, 5678}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{5}{22}\sqrt{11}e^{12} + \frac{5}{22}\sqrt{11}e^{34}$	$(-\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, -\frac{3}{44}, 1, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, -\frac{3}{22})$ $+ \frac{15}{11}e^5 \otimes e_9$	{12345, 123456, 1234567, 12345678, 125, 1256, 12567, 125678, 136789, 13679, 1369, 139, 5, 56, 567, 5678}
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{17}e^{12} + \frac{1}{19}\sqrt{17}e^{34}$	$(\frac{10}{19}, -\frac{7}{19}, \frac{10}{19}, -\frac{7}{19}, \frac{2}{19}, \frac{2}{19}, \frac{2}{19}, \frac{2}{19}, \frac{3}{19})$ $+ \frac{17}{19}e^1 \otimes e_2 - \frac{17}{19}e^3 \otimes e_4$	{1356789, 135679, 13569, 1359, 139, 1456789, 145679, 14569, 1459, 149, 2456789, 245679, 24569, 2459, 249}
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{1}{19}\sqrt{17}e^{12} + \frac{1}{19}\sqrt{17}e^{34}$	$(\frac{10}{19}, -\frac{7}{19}, \frac{10}{19}, -\frac{7}{19}, \frac{2}{19}, \frac{2}{19}, \frac{2}{19}, \frac{2}{19}, \frac{3}{19})$ $+ \frac{17}{19}e^1 \otimes e_2 + \frac{17}{19}e^3 \otimes e_4$	{1356789, 135679, 13569, 1359, 139, 1456789, 145679, 14569, 1459, 149, 2456789, 245679, 24569, 2459, 249}
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{4}{221}\sqrt{410}e^{12} + \frac{4}{221}\sqrt{410}e^{34}$	$(\frac{3}{17}, -\frac{22}{221}, \frac{3}{17}, -\frac{22}{221}, \frac{99}{221}, -\frac{43}{221}, -\frac{43}{221}, \frac{18}{221}, \frac{1}{13})$ $+ \frac{18}{221}\sqrt{41}e^5 \otimes e_9 + \frac{2}{221}\sqrt{2501}e^1 \otimes e_6 + \frac{2}{221}\sqrt{2501}e^3 \otimes e_7$	{12345, 123458, 1257, 12578, 1389, 139, 14789, 1479, 246789, 24679, 567, 5678}
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{7}\sqrt{3}e^{12} + \frac{1}{7}\sqrt{3}e^{34}$	$(\frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{1}{7}, \frac{2}{7}, -\frac{2}{7}, -\frac{2}{7}, -\frac{1}{7}, \frac{2}{7})$ $+ \frac{1}{7}\sqrt{15}e^1 \otimes e_6 + \frac{1}{7}\sqrt{15}e^2 \otimes e_7 + \frac{2}{7}e^5 \otimes e_8$	{1235, 1238, 134579, 134789, 1579, 1789, 3567, 3678}
91:2	$0, 0, 0, 0, 0, 0, 0, \frac{2}{39}\sqrt{11}e^{12} + \frac{2}{39}\sqrt{66}e^{34}$	$(\frac{5}{13}, -\frac{7}{39}, \frac{11}{39}, -\frac{1}{13}, \frac{14}{39}, -\frac{11}{39}, -\frac{8}{39}, \frac{1}{13}, \frac{8}{39})$ $+ \frac{22}{39}e^1 \otimes e_2 + \frac{22}{39}e^5 \otimes e_7 + \frac{2}{39}\sqrt{154}e^3 \otimes e_6$	{1345, 13458, 1347, 13478, 156, 1568, 167, 1678, 2345, 23458, 2347, 23478, 256, 2568, 267, 2678}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{89}\sqrt{21}e^{12} + \frac{2}{89}\sqrt{21}e^{34} + \frac{2}{89}\sqrt{21}e^{56}$	$(\frac{25}{89}, -\frac{17}{89}, \frac{25}{89}, -\frac{17}{89}, \frac{25}{89}, -\frac{17}{89}, \frac{26}{89}, -\frac{16}{89}, \frac{8}{89})$ $+ \frac{42}{89}e^1 \otimes e_2 + \frac{42}{89}e^3 \otimes e_4 - \frac{42}{89}e^5 \otimes e_6 + \frac{42}{89}e^7 \otimes e_8$	{13579, 13589, 13679, 13689, 14579, 14589, 14679, 14689, 24579, 24589, 24679, 24689}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{119}\sqrt{335}e^{12} + \frac{1}{119}\sqrt{335}e^{34} + \frac{1}{119}\sqrt{2546}e^{56}$	$(\frac{45}{119}, -\frac{22}{119}, \frac{45}{119}, -\frac{22}{119}, \frac{33}{119}, -\frac{10}{119}, -\frac{2}{7}, \frac{9}{119}, \frac{23}{119})$ $+ \frac{1}{119}\sqrt{5762}e^5 \otimes e_7 + \frac{67}{119}e^1 \otimes e_2 + \frac{67}{119}e^3 \otimes e_4$	{1356, 13568, 137, 1378, 1456, 14568, 147, 1478, 2456, 24568, 247, 2478}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{119}\sqrt{335}e^{12} + \frac{1}{119}\sqrt{335}e^{34} + \frac{1}{119}\sqrt{2546}e^{56}$	$(\frac{45}{119}, -\frac{22}{119}, \frac{45}{119}, -\frac{22}{119}, \frac{33}{119}, -\frac{10}{119}, -\frac{2}{7}, \frac{9}{119}, \frac{23}{119})$ $+ \frac{1}{119}\sqrt{5762}e^5 \otimes e_7 + \frac{67}{119}e^1 \otimes e_2 - \frac{67}{119}e^3 \otimes e_4$	{1356, 13568, 137, 1378, 1456, 14568, 147, 1478, 2456, 24568, 247, 2478}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{21}e^{12} + \frac{1}{34}\sqrt{21}e^{34} + \frac{1}{34}\sqrt{21}e^{56}$	$(\frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{1}{17}, \frac{1}{17}, \frac{13}{34}, -\frac{4}{17}, \frac{2}{17})$ $+ \frac{21}{34}e^1 \otimes e_2 - \frac{21}{34}e^3 \otimes e_4 + \frac{21}{34}e^7 \otimes e_8$	{13579, 13589, 14579, 14589, 24579, 24589}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{21}e^{12} + \frac{1}{34}\sqrt{21}e^{34} + \frac{1}{34}\sqrt{21}e^{56}$	$(\frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{1}{17}, \frac{1}{17}, \frac{13}{34}, -\frac{4}{17}, \frac{2}{17})$ $+ \frac{21}{34}e^1 \otimes e_2 + \frac{21}{34}e^3 \otimes e_4 + \frac{21}{34}e^7 \otimes e_8$	{13579, 13589, 14579, 14589, 24579, 24589}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12} + \frac{1}{13}\sqrt{21}e^{34} + \frac{1}{13}\sqrt{21}e^{56}$	$(\frac{25}{26}, -\frac{17}{26}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{5}{26}, \frac{5}{26}, \frac{4}{13})$ $+ \frac{21}{13}e^1 \otimes e_2$	{135789, 13579, 1359, 235789, 23579, 2359}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{171}\sqrt{335}e^{12} + \frac{2}{171}\sqrt{2546}e^{34} + \frac{2}{171}\sqrt{335}e^{56}$	$(\frac{10}{19}, -\frac{44}{171}, \frac{22}{57}, -\frac{20}{171}, \frac{23}{171}, \frac{23}{171}, -\frac{68}{171}, \frac{2}{19}, \frac{46}{171})$ $+ \frac{134}{171}e^1 \otimes e_2 + \frac{2}{171}\sqrt{5762}e^3 \otimes e_7$	{1345, 13458, 157, 1578, 2345, 23458, 257, 2578}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{13}\sqrt{21}e^{12} + \frac{1}{13}\sqrt{21}e^{34} + \frac{1}{13}\sqrt{21}e^{56}$	$(\frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, \frac{2}{13}, 1, -\frac{8}{13}, \frac{4}{13})$ $+ \frac{21}{13}e^7 \otimes e_8$	{1234567, 1234568, 12347, 12348, 127, 128, 13579, 13589, 7, 8}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{89}\sqrt{21}e^{12} + \frac{2}{89}\sqrt{21}e^{34} + \frac{2}{89}\sqrt{21}e^{56}$	$(\frac{25}{89}, -\frac{17}{89}, \frac{25}{89}, -\frac{17}{89}, \frac{25}{89}, -\frac{17}{89}, \frac{26}{89}, -\frac{16}{89}, \frac{8}{89})$ $+ \frac{42}{89}e^1 \otimes e_2 + \frac{42}{89}e^3 \otimes e_4 + \frac{42}{89}e^5 \otimes e_6 + \frac{42}{89}e^7 \otimes e_8$	{13579, 13589, 13679, 13689, 14679, 14689, 24679, 24689}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{132}\sqrt{923}e^{12} + \frac{1}{132}\sqrt{2130}e^{34} + \frac{1}{132}\sqrt{2130}e^{56}$	$(\frac{35}{88}, -\frac{37}{264}, \frac{7}{24}, -\frac{3}{88}, \frac{7}{24}, -\frac{3}{88}, -\frac{65}{264}, -\frac{65}{264}, \frac{17}{66})$ $+ \frac{1}{132}\sqrt{6106}e^3 \otimes e_7 + \frac{1}{132}\sqrt{6106}e^5 \otimes e_8 + \frac{71}{132}e^1 \otimes e_2$	{13456, 1348, 178, 23456, 2348, 278}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{193}\sqrt{2130}e^{12} + \frac{2}{193}\sqrt{2130}e^{34} + \frac{2}{193}\sqrt{923}e^{56}$	$(\frac{77}{193}, -\frac{9}{193}, \frac{77}{193}, -\frac{9}{193}, \frac{34}{193}, \frac{34}{193}, -\frac{65}{193}, -\frac{65}{193}, \frac{68}{193})$ $+ \frac{2}{193}\sqrt{6106}e^1 \otimes e_7 + \frac{2}{193}\sqrt{6106}e^3 \otimes e_8$	{12345, 1258, 13569, 139, 145689, 1489, 2456789, 24789, 578}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{52}\sqrt{2546}e^{12} + \frac{1}{52}\sqrt{335}e^{34} + \frac{1}{52}\sqrt{335}e^{56}$	$(\frac{33}{52}, -\frac{5}{26}, \frac{23}{104}, \frac{23}{104}, \frac{23}{104}, \frac{23}{104}, -\frac{17}{26}, \frac{9}{52}, \frac{23}{52})$ $+ \frac{1}{52}\sqrt{5762}e^1 \otimes e_7$	{1235, 12358, 1345689, 134569, 13489, 1349, 189, 19, 23456789, 2345679, 234789, 23479, 2789, 279, 357, 3578}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{30}{47}e^{12} + \frac{5}{47}\sqrt{7}e^{34} + \frac{5}{47}\sqrt{7}e^{56}$	$(\frac{15}{94}, \frac{15}{94}, \frac{15}{94}, \frac{15}{94}, \frac{15}{94}, \frac{15}{94}, -\frac{35}{94}, -\frac{35}{94}, \frac{15}{47})$ $+ \frac{5}{47}\sqrt{43}e^1 \otimes e_7 + \frac{5}{47}\sqrt{43}e^2 \otimes e_8$	{1235, 1345689, 13489, 189, 3578}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{60}{119}e^{12} + \frac{10}{119}\sqrt{7}e^{34} + \frac{10}{119}\sqrt{7}e^{56}$	$(\frac{15}{119}, \frac{15}{119}, \frac{15}{119}, \frac{15}{119}, \frac{40}{119}, -\frac{10}{119}, -\frac{5}{17}, -\frac{5}{17}, \frac{30}{119})$ $+ \frac{10}{119}\sqrt{43}e^1 \otimes e_7 + \frac{10}{119}\sqrt{43}e^2 \otimes e_8 + \frac{50}{119}e^5 \otimes e_6$	{1235, 1236, 3578, 3678}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{1254}e^{12} + \frac{2}{281}\sqrt{1254}e^{34} + \frac{2}{281}\sqrt{1254}e^{56}$	$(\frac{55}{281}, -\frac{59}{281}, \frac{55}{281}, -\frac{59}{281}, \frac{55}{281}, -\frac{59}{281}, \frac{110}{281}, \frac{20}{281}, -\frac{4}{281})$ $+ \frac{114}{281}e^1 \otimes e_2 + \frac{114}{281}e^3 \otimes e_4 + \frac{114}{281}e^5 \otimes e_6 + \frac{6}{281}\sqrt{570}e^7 \otimes e_9$	{13589, 1359, 13689, 1369, 14689, 1469, 24689, 2469}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{55}\sqrt{1254}e^{12} + \frac{1}{55}\sqrt{1254}e^{34} + \frac{1}{55}\sqrt{1254}e^{56}$	$(-\frac{1}{55}, -\frac{1}{55}, -\frac{1}{55}, -\frac{1}{55}, -\frac{1}{55}, -\frac{1}{55}, 1, \frac{2}{11}, -\frac{2}{55})$ $+ \frac{3}{55}\sqrt{570}e^7 \otimes e_9$	{1234567, 12345678, 12347, 123478, 127, 1278, 13589, 1359, 7, 78}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{112}\sqrt{1254}e^{12} + \frac{1}{112}\sqrt{1254}e^{34} + \frac{1}{112}\sqrt{1254}e^{56}$	$(\frac{55}{224}, -\frac{59}{224}, \frac{55}{224}, -\frac{59}{224}, -\frac{1}{112}, -\frac{1}{112}, \frac{55}{112}, \frac{5}{56}, -\frac{1}{56})$ $+ \frac{3}{112}\sqrt{570}e^7 \otimes e_9 + \frac{57}{112}e^1 \otimes e_2 + \frac{57}{112}e^3 \otimes e_4$	{13589, 1359, 14589, 1459, 24589, 2459}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{112}\sqrt{1254}e^{12} + \frac{1}{112}\sqrt{1254}e^{34} + \frac{1}{112}\sqrt{1254}e^{56}$	$(\frac{55}{224}, -\frac{59}{224}, \frac{55}{224}, -\frac{59}{224}, -\frac{1}{112}, -\frac{1}{112}, \frac{55}{112}, \frac{5}{56}, -\frac{1}{56})$ $+ \frac{3}{112}\sqrt{570}e^7 \otimes e_9 + \frac{57}{112}e^1 \otimes e_2 - \frac{57}{112}e^3 \otimes e_4$	{13589, 1359, 14589, 1459, 24589, 2459}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{423}\sqrt{2314}e^{12} + \frac{2}{423}\sqrt{8366}e^{34} + \frac{2}{423}\sqrt{2314}e^{56}$	$(\frac{11}{47}, \frac{79}{423}, \frac{26}{141}, -\frac{58}{423}, \frac{10}{423}, \frac{10}{423}, \frac{22}{47}, -\frac{100}{423}, \frac{20}{423})$ $+ \frac{178}{423}e^1 \otimes e_2 + \frac{2}{47}\sqrt{178}e^7 \otimes e_9 + \frac{4}{423}\sqrt{3026}e^3 \otimes e_8$	{1359, 14589, 2359, 24589}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{21}e^{12} + \frac{2}{47}\sqrt{21}e^{34} + \frac{2}{47}\sqrt{21}e^{56}$	$(\frac{25}{47}, -\frac{17}{47}, \frac{25}{47}, -\frac{17}{47}, \frac{4}{47}, \frac{4}{47}, \frac{5}{47}, \frac{5}{47}, \frac{8}{47})$ $+ \frac{42}{47}e^1 \otimes e_2 - \frac{42}{47}e^3 \otimes e_4$	{135789, 13579, 1359, 145789, 14579, 1459, 245789, 24579, 2459}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{21}e^{12} + \frac{2}{47}\sqrt{21}e^{34} + \frac{2}{47}\sqrt{21}e^{56}$	$(\frac{25}{47}, -\frac{17}{47}, \frac{25}{47}, -\frac{17}{47}, \frac{4}{47}, \frac{4}{47}, \frac{5}{47}, \frac{5}{47}, \frac{8}{47})$ $+ \frac{42}{47}e^1 \otimes e_2 + \frac{42}{47}e^3 \otimes e_4$	{135789, 13579, 1359, 145789, 14579, 1459, 245789, 24579, 2459}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{47}\sqrt{21}e^{12} + \frac{2}{47}\sqrt{21}e^{34} + \frac{2}{47}\sqrt{21}e^{56}$	$(\frac{25}{47}, -\frac{17}{47}, \frac{4}{47}, \frac{4}{47}, \frac{4}{47}, \frac{26}{47}, -\frac{16}{47}, \frac{8}{47})$ $+ \frac{42}{47}e^1 \otimes e_2 + \frac{42}{47}e^7 \otimes e_8$	{13579, 13589, 23579, 23589}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{281}\sqrt{1254}e^{12} + \frac{2}{281}\sqrt{1254}e^{34} + \frac{2}{281}\sqrt{1254}e^{56}$	$(\frac{55}{281}, -\frac{59}{281}, \frac{55}{281}, -\frac{59}{281}, \frac{55}{281}, -\frac{59}{281}, \frac{110}{281}, \frac{20}{281}, -\frac{4}{281})$ $+ \frac{114}{281}e^1 \otimes e_2 + \frac{114}{281}e^3 \otimes e_4 - \frac{114}{281}e^5 \otimes e_6 + \frac{6}{281}\sqrt{570}e^7 \otimes e_9$	{13589, 1359, 13689, 1369, 14589, 1459, 14689, 1469, 24589, 2459, 24689, 2469}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{21}e^{12} + \frac{1}{34}\sqrt{21}e^{34} + \frac{1}{34}\sqrt{21}e^{56}$	$(\frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{5}{68}, \frac{5}{68}, \frac{2}{17})$ $+ \frac{21}{34}e^1 \otimes e_2 + \frac{21}{34}e^3 \otimes e_4 - \frac{21}{34}e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 145789, 14579, 1459, 146789, 14679, 1469, 245789, 24579, 2459, 246789, 24679, 2469}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{167}\sqrt{8366}e^{12} + \frac{1}{167}\sqrt{2314}e^{34} + \frac{1}{167}\sqrt{2314}e^{56}$	$(\frac{39}{167}, -\frac{29}{167}, \frac{5}{167}, \frac{5}{167}, \frac{5}{167}, \frac{5}{167}, \frac{99}{167}, -\frac{50}{167}, \frac{10}{167})$ $+ \frac{2}{167}\sqrt{3026}e^1 \otimes e_8 + \frac{9}{167}\sqrt{178}e^7 \otimes e_9$	{1234567, 12347, 127, 1359, 23589, 345678, 3478, 78}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{34}\sqrt{21}e^{12} + \frac{1}{34}\sqrt{21}e^{34} + \frac{1}{34}\sqrt{21}e^{56}$	$(\frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{25}{68}, -\frac{1}{4}, \frac{5}{68}, \frac{5}{68}, \frac{2}{17})$ $+ \frac{21}{34}e^1 \otimes e_2 + \frac{21}{34}e^3 \otimes e_4 + \frac{21}{34}e^5 \otimes e_6$	{135789, 13579, 1359, 136789, 13679, 1369, 146789, 14679, 1469, 246789, 24679, 2469}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{256}\sqrt{2314}e^{12} + \frac{1}{256}\sqrt{2314}e^{34} + \frac{1}{256}\sqrt{8366}e^{56}$	$(\frac{99}{512}, -\frac{79}{512}, \frac{99}{512}, -\frac{79}{512}, \frac{39}{256}, -\frac{29}{256}, \frac{99}{256}, -\frac{25}{128}, \frac{5}{128})$ $+ \frac{1}{128}\sqrt{3026}e^5 \otimes e_8 + \frac{89}{256}e^1 \otimes e_2 + \frac{89}{256}e^3 \otimes e_4 + \frac{9}{256}\sqrt{178}e^7 \otimes e_9$	{1359, 13689, 1459, 14689, 2459, 24689}

Table D – Continued to next page

Table D – Continued from previous page

Name Δ	g	D	S
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{1}{256}\sqrt{2314}e^{12} + \frac{1}{256}\sqrt{2314}e^{34} + \frac{1}{256}\sqrt{8366}e^{56}$	$(\frac{99}{512}, -\frac{79}{512}, \frac{99}{512}, -\frac{79}{512}, \frac{39}{256}, -\frac{29}{256}, \frac{99}{256}, -\frac{25}{128}, \frac{5}{128})$ $+ \frac{1}{128}\sqrt{3026}e^5 \otimes e_8 + \frac{89}{256}e^1 \otimes e_2 - \frac{89}{256}e^3 \otimes e_4 + \frac{9}{256}\sqrt{178}e^7 \otimes e_9$	{1359, 13689, 1459, 14689, 2459, 24689}
91:3	$0, 0, 0, 0, 0, 0, 0, \frac{2}{167}\sqrt{1254}e^{12} + \frac{2}{167}\sqrt{1254}e^{34} + \frac{2}{167}\sqrt{1254}e^{56}$	$(\frac{55}{167}, -\frac{59}{167}, -\frac{2}{167}, -\frac{2}{167}, -\frac{2}{167}, -\frac{2}{167}, \frac{110}{167}, \frac{20}{167}, -\frac{4}{167})$ $+ \frac{114}{167}e^1 \otimes e_2 + \frac{6}{167}\sqrt{570}e^7 \otimes e_9$	{13589, 1359, 23589, 2359}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{28}e^{12} + \frac{5}{28}e^{34} + \frac{5}{28}e^{56} + \frac{5}{28}e^{78}$	$(\frac{15}{28}, -\frac{5}{14}, \frac{15}{28}, -\frac{5}{14}, \frac{5}{56}, \frac{5}{56}, \frac{5}{56}, \frac{5}{56}, \frac{5}{28})$ $+ \frac{25}{28}e^1 \otimes e_2 - \frac{25}{28}e^3 \otimes e_4$	{13579, 14579, 24579}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{28}e^{12} + \frac{5}{28}e^{34} + \frac{5}{28}e^{56} + \frac{5}{28}e^{78}$	$(\frac{15}{28}, -\frac{5}{14}, \frac{15}{28}, -\frac{5}{14}, \frac{5}{56}, \frac{5}{56}, \frac{5}{56}, \frac{5}{56}, \frac{5}{28})$ $+ \frac{25}{28}e^1 \otimes e_2 + \frac{25}{28}e^3 \otimes e_4$	{13579, 14579, 24579}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{10}{31}e^{12} + \frac{10}{31}e^{34} + \frac{10}{31}e^{56} + \frac{10}{31}e^{78}$	$(\frac{30}{31}, -\frac{20}{31}, \frac{5}{31}, \frac{5}{31}, \frac{5}{31}, \frac{5}{31}, \frac{5}{31}, \frac{5}{31}, \frac{10}{31})$ $+ \frac{50}{31}e^1 \otimes e_2$	{13579, 23579}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{53}e^{12} + \frac{5}{53}e^{34} + \frac{5}{53}e^{56} + \frac{5}{53}e^{78}$	$(\frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{5}{53})$ $+ \frac{25}{53}e^1 \otimes e_2 + \frac{25}{53}e^3 \otimes e_4 - \frac{25}{53}e^5 \otimes e_6 - \frac{25}{53}e^7 \otimes e_8$	{13579, 13589, 13689, 14589, 14689, 24689}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{10}{81}e^{12} + \frac{10}{81}e^{34} + \frac{10}{81}e^{56} + \frac{10}{81}e^{78}$	$(\frac{10}{27}, -\frac{20}{81}, \frac{10}{27}, -\frac{20}{81}, \frac{10}{27}, -\frac{20}{81}, \frac{5}{81}, \frac{5}{81}, \frac{10}{81})$ $+ \frac{50}{81}e^1 \otimes e_2 + \frac{50}{81}e^3 \otimes e_4 - \frac{50}{81}e^5 \otimes e_6$	{13579, 13679, 14579, 14679, 24579, 24679}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{53}e^{12} + \frac{5}{53}e^{34} + \frac{5}{53}e^{56} + \frac{5}{53}e^{78}$	$(\frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{5}{53})$ $+ \frac{25}{53}e^1 \otimes e_2 + \frac{25}{53}e^3 \otimes e_4 + \frac{25}{53}e^5 \otimes e_6 - \frac{25}{53}e^7 \otimes e_8$	{13579, 13589, 13679, 13689, 14679, 14689, 24679, 24689}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{5}{53}e^{12} + \frac{5}{53}e^{34} + \frac{5}{53}e^{56} + \frac{5}{53}e^{78}$	$(\frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{15}{53}, -\frac{10}{53}, \frac{5}{53})$ $+ \frac{25}{53}e^1 \otimes e_2 + \frac{25}{53}e^3 \otimes e_4 + \frac{25}{53}e^5 \otimes e_6 + \frac{25}{53}e^7 \otimes e_8$	{13579, 13589, 13689, 14689, 24689}
91:4	$0, 0, 0, 0, 0, 0, 0, \frac{10}{81}e^{12} + \frac{10}{81}e^{34} + \frac{10}{81}e^{56} + \frac{10}{81}e^{78}$	$(\frac{10}{27}, -\frac{20}{81}, \frac{10}{27}, -\frac{20}{81}, \frac{10}{27}, -\frac{20}{81}, \frac{5}{81}, \frac{5}{81}, \frac{10}{81})$ $+ \frac{50}{81}e^1 \otimes e_2 + \frac{50}{81}e^3 \otimes e_4 + \frac{50}{81}e^5 \otimes e_6$	{13579, 13679, 14679, 24679}
9:1	0, 0, 0, 0, 0, 0, 0, 0	$(\frac{11}{29}, \frac{11}{29}, -\frac{7}{29}, -\frac{7}{29}, \frac{11}{29}, -\frac{7}{29}, \frac{2}{29}, \frac{2}{29}, \frac{2}{29})$ $+ \frac{18}{29}e^1 \otimes e_3 + \frac{18}{29}e^2 \otimes e_4 + \frac{18}{29}e^5 \otimes e_6$	{125, 1257, 12578, 125789, 126, 1267, 12678, 126789, 146, 1467, 14678, 146789, 346, 3467, 34678, 346789}
9:1	0, 0, 0, 0, 0, 0, 0, 0	$(1, -\frac{7}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11}, \frac{2}{11})$ $+ \frac{18}{11}e^1 \otimes e_2$	{1, 13, 134, 1345, 13456, 134567, 1345678, 13456789, 2, 23, 234, 2345, 23456, 234567, 2345678, 23456789}
9:1	0, 0, 0, 0, 0, 0, 0, 0	$(\frac{11}{20}, \frac{11}{20}, -\frac{7}{20}, -\frac{7}{20}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10}, \frac{1}{10})$ $+ \frac{9}{10}e^1 \otimes e_3 + \frac{9}{10}e^2 \otimes e_4$	{12, 125, 1256, 12567, 125678, 1256789, 14, 145, 1456, 14567, 145678, 1456789, 34, 345, 3456, 34567, 345678, 3456789}
9:1	0, 0, 0, 0, 0, 0, 0, 0	$(\frac{11}{38}, \frac{11}{38}, -\frac{7}{38}, -\frac{7}{38}, \frac{11}{38}, -\frac{7}{38}, \frac{11}{38}, -\frac{7}{38}, \frac{1}{19})$ $+ \frac{9}{19}e^1 \otimes e_3 + \frac{9}{19}e^2 \otimes e_4 + \frac{9}{19}e^5 \otimes e_6 + \frac{9}{19}e^7 \otimes e_8$	{1257, 12579, 1258, 12589, 1268, 12689, 1468, 14689, 3468, 34689}

End of Table D